SOLICITATION - OFFER - AWARD

SOLICITATION NO:	SOLICITATION TITLE:	DATE ISSUED:	CONTRACT NO:
21-C00008/DK	**CONSTRUCTION OF FIRE STATION NO. 5**	**MARCH 17, 2021**	**21-C00008/DK**

ISSUED BY:	SUBMIT BID OFFER TO:
BOARD OF COUNTY COMMISSIONERS **HERNANDO COUNTY, FLORIDA** John Allocco, Chairman Steve Champion, Vice Chairman Jeff Holcomb, Second Vice Chairman Wayne Dukes Elizabeth Narverud	**HERNANDO COUNTY** **PURCHASING AND CONTRACTS** **15470 FLIGHT PATH DR.** **BROOKSVILLE, FL 34604** James S. Wunderle Purchasing and Contracts Manager Chief Procurement Officer

SOLICITATION

SEALED OFFERS, IN TWO (2) ORIGINALS, FOR FURNISHING THE SERVICES, SUPPLIES OR EQUIPMENT DESCRIBED HEREIN WILL BE RECEIVED AT THE OFFICE OF PURCHASING AND CONTRACTS, 15470 FLIGHT PATH DR., BROOKSVILLE, FL 34604, **UNTIL 3:00 P.M., LOCAL TIME ON MAY 12, 2021.** NO BID OFFERS WILL BE ACCEPTED AFTER THE ABOVE STIPULATED DATE AND TIME. THIS IS AN ADVERTISED SOLICITATION AND THE RESPONDING BIDDERS WILL BE PUBLICLY READ IN THE PURCHASING AND CONTRACTS CONFERENCE ROOM AT **3:00 P.M. ON MAY 12, 2021.** PURSUANT TO FS 119.071 (current version), SEALED BIDS, PROPOSALS, OR REPLIES RECEIVED BY AN AGENCY PURSUANT TO A COMPETITIVE SOLICITATION ARE EXEMPT FROM FINAL INSPECTION UNTIL SUCH TIME AS THE AGENCY PROVIDES NOTICE OF AN INTENDED DECISION OR UNTIL THIRTY (30) DAYS AFTER OPENING THE BIDS, PROPOSALS, OR FINAL REPLIES, WHICHEVER IS EARLIER.

ITEM NO.	DESCRIPTION OF SERVICE/SUPPLIES/EQUIPMENT	QTY	UNIT	UNIT PRICE	TOTAL AMOUNT
1	The Vendor/Contractor will supply all materials, labor, and equipment in order to accomplish the Construction of Fire Station No. 5, as described in the specifications and construction plans showing the proposed improvements in Hernando County, Florida. (SEE ATTACHED SPECIFICATIONS)	x	xxxxx	xxxxxxxxx	$_____

OFFER

(TERMS, CONDITIONS AND SPECIFICATIONS ARE INCLUDED AS PARTS HEREOF)

IN COMPLIANCE WITH THE ABOVE, THE UNDERSIGNED, BEING DULY AUTHORIZED TO SIGN THIS BID FOR THE BIDDER, AGREES THAT IF THIS OFFER IS ACCEPTED WITHIN ONE HUNDRED TWENTY (120) DAYS FROM THE BID OPENING DATE, TO FURNISH TO HERNANDO COUNTY ANY AND ALL ITEMS FOR WHICH PRICES ARE OFFERED IN THIS BID SOLICITATION AT THE PRICE(S) SO OFFERED, DELIVERED AT DESIGNATED POINT(S), WITHIN THE TIME PERIOD SPECIFIED, AND AT THE TERMS AND CONDITIONS SO STIPULATED IN THE SOLICITATION FOR BIDS.

DISCOUNT FOR PROMPT PAYMENT: _____% 10 CALENDAR DAYS _____% 20 CALENDAR DAYS _____% _____ CALENDAR DAYS

BIDDER'S INFORMATION	NAME AND TITLE OF PERSON AUTHORIZED TO SIGN BID OFFER:	
Company Name Address City State Zip Code Phone Number Fax Number Email Address	BIDDER'S SIGNATURE	OFFER DATE

AWARD

(TO BE COMPLETED BY COUNTY)

REVIEWED FOR LEGAL SUFFICIENCY: 2/25/21	LR NO.: 2021-114	BY: Jon Jouben
ACCEPTED AS TO ITEM(S) NO:	AMOUNT:	ACCOUNTING CODE:
SUBMIT INVOICES TO: **Hernando County** **FIRE AND EMERGENCY SERVICES** **15470 FLIGHT PATH DR.** **BROOKSVILLE, FL 34604**	NAME AND TITLE OF PERSON AUTHORIZED TO SIGN ACCEPTANCE AND AWARD FOR THE COUNTY: SIGNATURE:	AWARD DATE:

PROJECT BID SPECIFICATIONS

INVITATION TO BID NO. 21-C00008/DK

CONSTRUCTION OF FIRE STATION NO. 5

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ISSUE DATE: MARCH 17, 2021

INVITATION TO BID

NOTICE IS HEREBY GIVEN that the Board of County Commissions of Hernando County, Florida, is accepting Bids for:

CONSTRUCTION CONTRACT ITB NO. 21-C00008/DK
FOR
CONSTRUCTION OF FIRE STATION NO. 5

Hernando County Board of County Commissioners is soliciting General Contractors that are active in Fire Station construction.

Sealed Bid offers as two (2) originals for furnishing the above will be received and accepted up to 3:00 PM (local time), **MAY 12, 2021** in the Hernando County Purchasing and Contract's office. Bids shall be plainly marked on the outside of a sealed envelope/container with: Bidder's name and address, and Bid Name and Bid Number. Bids are to be submitted:

Physical Address:
Hernando County Purchasing and Contracts
15470 Flight Path Dr.
Brooksville, FL 34604

The Board of County Commissioners of Hernando County, Florida reserves the right to accept or reject any or all Bids and waive informalities and minor irregularities in offers received in accordance with the Bid documents and the Hernando County Procurement Ordinance.

Interested firms may secure the Bid documents and plans and drawings and all other pertinent information by visiting the website of Bid Net at www.BidNetDirect.com. For additional project information, please visit the Hernando County Board of County Commissioners Purchasing and Contracts Department at www.hernandocounty.us, or by calling Bid Net at (800) 835-4603 or the Purchasing and Contracts Department at (352) 754–4020.

Bid offers shall be accompanied by either a Bid Bond, Certified Check, Cashier's Check, or Official Bank Check in the dollar amount representing not less than five percent (5%) of the total amount Bid as a guarantee to enter into a Contract and furnish a Contract performance and payment bond in the amount of one hundred percent (100%) of the total Bid price within fifteen (15) calendar days from the date of notification of the award.

A **MANDATORY** Pre-Bid Conference will be held **March 30, 2021, @ 9:00 AM,** at **Fire Station No. 5, 9252 Spring Hill Drive, Spring Hill, FL 34608.** Representatives of Owner will be present to discuss the project. Bidders are required to attend and participate in the conference. **THIS CONFERENCE WILL BE HELD ONLY ONCE AND FAILURE TO ATTEND AND SIGN IN SHALL DISQUALIFY ANY BIDDER NOT ATTENDING FROM SUBMITTING A BID. ATTENDEES MUST BE PRESENT AT THE START OF THE PRE-BID CONFERENCE. ARRIVAL AFTER THE START OF THE PRE-BID CONFERENCE SHALL BE CAUSE FOR DISQUALIFICATION. Parking available at the Spring Hill Library, 9220 Spring Hill Dr., Spring Hill, FL 34608.**

Exparte Communication: Please note that to ensure the proper and fair evaluation of a submittal, the County prohibits exparte communication (i.e., unsolicited) initiated by the Respondent to the County Official or Employee evaluating or considering the submittals prior to the time a decision has been made. Communication between Respondent and the County will be initiated by the appropriate County official or employee in order to obtain information or clarification needed to develop a proper and accurate evaluation of the submittal. Exparte communication may be grounds for disqualifying the offending Respondent from consideration or award of the Solicitation or any future Solicitation.

Purchasing and Contracts Division will post addenda on Bid Net at www.BidNetDirect.com to all questions in accordance with the Solicitation Instructions. **It is the responsibility of prospective Bidders to visit the County's website to ensure that they are aware of all Addenda issued relative to this Solicitation.**

Pursuant to Florida Statutes 119.071 (current version) sealed Bids, proposals or replies received by an agency pursuant to a competitive Solicitation are exempt from inspection until such time as the agency provides notice of an intended decision or until thirty (30) days after opening the Bids, proposals, or final replies whichever is earlier.

BOARD OF COUNTY COMMISSIONERS
HERNANDO COUNTY
James Wunderle Digitally signed by James Wunderle Date: 2021.03.12 16:57:33 -05'00'
JAMES S. WUNDERLE
PURCHASING AND CONTRACTS MANAGER
CHIEF PROCUREMENT OFFICER, HERNANDO COUNTY

NOTICE TO BIDDERS

To ensure that your Bid is responsive, you are urged to request clarification or guidance on any issues involving this Solicitation before submission of your response. Your point-of-contact for this Solicitation is Diane Kafrissen, Purchasing Agent II, Purchasing and Contracts, at (352) 754-4020 or email purchasing@hernandocounty.us with a copy to Dkafrissen@hernandocounty.us .

SECTION II - SOLICITATION INSTRUCTIONS

1. **DEFINITION OF TERMS:** Where the following terms, or their pronouns, occur herein, the intent and meaning shall be as follows:

1.1. ADDENDA: Written or graphic instruments issued prior to the opening of Bids which clarify, correct, or change the Bidding Requirements or the proposed Contract Documents.

1.2. AGENCY: the Federal or State agency named as such in the Agreement. This Project is financed in whole or in part through NA and the term Agency, as used herein, shall refer to NA.

1.3. AGREEMENT: The written instrument which is evidence of the Agreement between Owner and Vendor/Contractor covering the work.

1.4. APPLICATION FOR PAYMENT: The form acceptable to Engineer which is to be used by Vendor/Contractor during the course of the work in requesting progress or final payments and which is to be accompanied by such supporting documentation as is required by the Contract Documents.

1.5. BID: The offer or proposal of a Bidder submitted on the prescribed form setting forth the prices for the work to be performed.

1.6. BID BOND/GUARANTEE: The certified check or surety bond furnished by the Bidder with his Bid as evidence of good faith.

1.7. BID DOCUMENTS: The Bidding requirements and the proposed Contract Documents, including all Addenda.

1.8. BIDDER: The term "Bidder" used herein refers to the dealer/manufacturer or business organization submitting a Bid to the County in response to this Solicitation.

1.9. CHANGE ORDER: A document recommended by Engineer which is signed by Vendor/Contractor and Owner and Agency and authorizes an addition, deletion, or revision in the work or an adjustment in the Contract Price or the Contract Times, issued on or after the Effective Date of the Agreement.

1.10. CONSTRUCTION ADMINISTRATOR James Billotte, Deputy Fire Chief, Hernando County Fire and Emergency Services, shall act as the "Construction Administrator" for the work relative to the acceptance and approval of Applications for Payment pursuant to the provisions of the Florida Prompt Payment Act, Part VII, Ch. 218.735, F.S (current version).

1.11. CONTRACT: The Agreement executed by the Owner and Vendor/Contractor for the performance of work and the other documents (plans, specifications, notice to Bidders, proposal, surety bonds, addenda and other incorporated or referenced documents) whether attached thereto or not.

1.12. CONTRACT PRICE: The moneys payable by Owner to Vendor/Contractor for completion of the work in accordance with the Contract Documents as stated in the Agreement**.**

1.13. CONTRACT TIMES: The number of days within which, or the dates by which, the work is to be substantially completed and ready for final payment as set forth in the Agreement. The Contract Times will commence on the date indicated in the Notice to Proceed.

1.14. CONTRACT WORK: Any and all obligations, duties and responsibilities necessary to the successful completion of the project assigned to or undertaken by the Vendor/Contractor under the Contract Documents, including the furnishing of all labor, materials, equipment, and other incidentals.

1.15. CONTRACTOR: The individual or entity with whom the County has entered into the Agreement.

1.16. COUNTY: The Board of County Commissioners, Hernando County, or its duly authorized representative.

1.17. ENGINEER: Under Contract to the Owner, the Engineer in the administration of this Contract and any references to the Engineer or the Professional shall be deemed to mean **Wannemacher Jensen Architects,** for the plans and specifications referenced in these Contract Documents. Engineer may delegate or designate certain duties to be performed by other qualified professionals.

1.18. FDEP: Florida Department of Environmental Protection.

1.19. FDOT: Florida Department of Transportation.

1.20. FIELD ORDER: A written order issued by Engineer which requires minor changes in the work but which does not involve a change in the Contract Price or the Contract Times.

1.21. ISSUING OFFICE: The office from which the Bid Documents are to be issued and where the Bidding procedures are to be administered. Specifically - **Hernando County, Purchasing and Contracts, 15470 Flight Path Dr., Brooksville, Florida 34604**.

1.22. MUTCD: Manual on Uniform Traffic Control Devices https://mutcd.fhwa.dot.gov

1.23. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM: NPDES

1.24. NOTICE-WRITTEN: Notice shall be served upon the Vendor/Contractor either personally or by leaving the said notice at his residence or with his Agent in charge of the work, or addressed to the Vendor/Contractor at the residence or place of business given in the Bid and deposited in a postpaid wrapper in any post box regularly maintained by the United States Post Office.

1.25. NOTICE OF AWARD: The written notice by Owner to the successful Bidder stating that upon timely compliance by the successful Bidder with the conditions precedent listed therein, Owner will sign and deliver the Agreement.

1.26. NOTICE OF INTENT: NOI

1.27. NOTICE TO PROCEED: A written notice given by Owner to Vendor/Contractor fixing the date on which the Contract times will commence to run and on which Vendor/Contractor shall start to perform the work under the Contract Documents. A Notice to Proceed may be given at any time after the Effective Date of the Agreement.

1.28. OCCUPATIONAL SAFETY AND HEALTH ACT: OSHA.

1.29. OWNER: Hernando County Board of County Commissioners (County).

1.30. OWNER DESIGNATED REPRESENTATIVE: The Owner Designated Representative will act as the Owner's representative, assume all duties and responsibilities, and have the rights and authority assigned to the Owner Designated Representative in the Contract Documents in connection with the completion of the work in accordance with their respective scope of work and the Contract Documents. **James Billotte, Deputy Fire Chief, Hernando County Fire and Emergency Services,** shall act as the "Owner Designated Representative" for the work relative to this Contract.

1.31. PAYMENT AND PERFORMANCE BONDS: The approved forms of security furnished by the Vendor/Contractor and his Surety as a guaranty on the part of the Vendor/Contractor to execute the work in accordance with the terms of the Contract and to pay all obligations associated with the project.

1.32. PROJECT BUDGET/ESTIMATE: The project budget and/or estimate is the amount of funds the county has projected for this Solicitation. The County estimates this Solicitation to fall within Threshold **G**, as follows:

1.32.1. Threshold A: less than $100,000
1.32.2. Threshold B: $100,000.01- $250,000
1.32.3. Threshold C: $250,000.01- $500,000
1.32.4. Threshold D: $500,000.01- $1,000,000
1.32.5. Threshold E: $1,000,000.01 - $1,500,000
1.32.6. Threshold F: $1,500,000.01- $2,500,000
1.32.7. **Threshold G: $2,500,000.01- $5,000,000**
1.32.8. Threshold H: greater than $5,000,000.01

Note: The County/Engineer's probable cost estimate for this project is $3,961,988.00. This is only an estimate and should not be the basis to determine the Vendor/Contractor Bid submission amount.

1.33. PROFESSIONAL: The professional independent Architectural/Engineering firm designated to be the Engineer of Record (per Florida Administrative Code). Any references to the Engineer or the Professional shall be deemed to mean **Wannemacher Jensen Architects**, for the plans and specifications referenced in these Contract Documents.

1.34. PROJECT MANAGER: The duly authorized representative of the County during the construction period. The project manager of record for this Solicitation is: **James Billotte, Deputy Fire Chief, Hernando County Fire and Emergency Services**.

1.35. SCOPE OF WORK: All materials, labor and equipment in order to accomplish the Project, as described in the specifications and construction plans showing the proposed improvements. The Vendor/Contractor shall accomplish the work in a manner providing for the safety of their equipment and workers and for the safety of the general public.

1.36. SHOP DRAWINGS: All drawings, diagrams, illustrations, brochures, schedules and other data which are prepared by the Vendor/Contractor, a Sub-Contractor, a manufacturer, supplier or distributor and which illustrate the equipment, material and/or some portion of the work.

1.37. SITE: Lands or areas indicated in the Contract Documents as being furnished by Owner upon which the work is to be performed, including rights-of-way and easements for access thereto, and such other lands furnished by Owner which are designated for the use of Vendor/Contractor. The site or location for the work to be performed in this Contract will be Fire Station No. 5, 9252 Spring Hill Dr., Spring Hill, FL 34608.

1.38. SUB-CONTRACTOR: Any person, firm or corporation other than employees of the Vendor/Contractor who or which Contracts with the Vendor/Contractor to furnish, or actually furnishes labor, materials and/or equipment for the performance of a part of the work on the project.

1.39. SURETY: Any person, firm or corporation which is bound by Public Construction Bond and Payment Bond with and for the Vendor/Contractor and which engages to be responsible for his acceptable performance of the work and for payment of all debts pertaining thereto.

1.40. VENDOR/CONTRACTOR: The individual or entity with whom the County has entered into the Agreement.

1.41. WORK: The entire completed construction or the various separately identifiable parts thereof required to be furnished under the Contract Documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the Contract Documents.

2. AVAILABILITY OF BIDDING DOCUMENTS:

2.1. Interested firms may secure Bid documents, plans, drawings, site locations, and other pertinent information by visiting the website of www.BidNetDirect.com. For additional information please contact the Hernando County Board of County Commissioners, Purchasing and Contracts Department at (352) 754-4020 or by calling Bid Net at (800) 835-4603.

3. PREPARATION OF BID: To ensure acceptance of your Bid, please follow these instructions:

3.1. Interested firms are to submit two (2) original Bid responses. All Bid sheets including the Bid Form in Section VII must be executed and submitted in a sealed envelope. Bidders submitting more than one (1) Bid with different pricing shall cause the Bidder to be rejected. The face of the envelope shall contain, in addition to the address, the date and time of the Bid opening and the Bid number or title. All Bids are subject to the conditions specified herein. Those, which do not comply with these conditions, may be subject to rejection.

Submit Bids to:
Hernando County Purchasing and Contracts
15470 Flight Path Dr.
Brooksville, Florida 34604
BID NUMBER (ITB NO. 21-C00008/DK)

3.2. The responsibility for delivering the Bid to the County on or before the stated time and date will be solely and strictly the responsibility of the Bidder. The County will be in no way responsible for delays caused by the U.S. Postal Services, any courier system, or any other occurrence.

3.3. Bids shall be made upon the forms supplied by the Owner and included with these Bid Documents. Each Bidder shall copy the Bid form, in the number of copies required, and state in words and numerals in ink without delineations, alterations or erasures, the total base Bid price, for which he will perform the work as required by the Bid documents, as well as a breakdown of the lump sum and unit price payment items comprising the total base Bid price.

3.4. Bids must be typed or printed in ink. All corrections made by the Bidder prior to the opening must be initialed and dated by the Bidder. No changes or corrections will be allowed after Bid opening.

3.5. A Bid price shall be indicated for each Bid item, unit price item and alternative listed therein, or the words “No Bid” or “No Change” entered.

3.6. Bids must be signed by the Bidder with his signature in full. When a firm is a Bidder, the Bid proposals shall be signed in the name of the firm by one (1) or more of the partners. When a corporation is a Bidder,

the officer signing shall set out the corporate name in full beneath which he shall sign his name and give title of his office. The Bid shall also bear the seal of the corporation. Anyone signing the Bid proposal as agent must file with it legal evidence of his authority to do so. Bidders who are non-resident corporations shall furnish to the Owner a duly certified copy of their permit to transact business in the State of Florida along with the Bid. Failure to promptly submit this evidence or qualification to do business in the State of Florida may be basis for rejection of the Bid.

3.7. Electronic, telegraphic or facsimile Bids will **not** be accepted.

3.8. All Bids must be firm for a period of one hundred twenty (120) days after the time set for opening Bids.

3.9. No material, labor, or facilities will be furnished by the County unless specifically stated.

3.10. Blank spaces in the Bid must be properly filled in and the phraseology of the Bid must not be changed. Additions must not be made to items mentioned therein and any unauthorized conditions, limiting any provision, attached to a Bid shall render irregular and may cause its rejection.

3.11. The Bid shall contain an acknowledgment of all Addenda.

4. TIMETABLE:

Date of Distribution:	**MARCH 17, 2021**
Mandatory Pre-Bid/Site Visit:	**MARCH 30, 2021 AT 9:00 AM**
Last Date of Inquiries:	**APRIL 16, 2021 T 5:00 PM**
Bids Due:	**MAY 12, 2021 AT 3:00 PM**

5. MANDATORY PRE-BID CONFERENCE:

5.1. A Mandatory Pre-Bid Conference will be held **MARCH 30, 2021** at **9:00 AM** at the **Fire Station No. 5, 9252 Spring Hill Drive, Spring Hill, FL 34608. Parking available at the Spring Hill Library, 9220 Spring Hill Dr., Spring Hill, FL 34608.**

5.2. A Mandatory Site Visit will immediately follow the Pre-Bid conference.

5.3. Only Bidders present at the Pre-Bid Conference and Site Visit may submit a Bid for this Solicitation.

5.4. Attendees must be present at the beginning of the Pre-Bid conference. Arrival after the start of the Pre-Bid conference shall be cause for disqualification. A sign-in sheet will be provided at both locations to verify attendance. Bidders must be signed in to confirm their attendance.

6. BID OPENING:

6.1. Bids received after the date and time disclosed in this Solicitation will not be accepted. Bids will be opened immediately after this date and time, and will remain binding upon the Bidder for a period of one hundred twenty (120) days thereafter. Pursuant to Florida Statutes 119.071 (current version) sealed Bids, proposals, or replies received by an agency pursuant to a competitive Solicitation are exempt from inspection until such time as the agency provides notice of an intended decision or until thirty (30) days after opening the Bids, proposals, or final replies whichever is earlier.

7. SITE VISIT:

7.1. Bidder may request access to the site to conduct examinations, investigations, explorations, tests, and studies as Bidder deems necessary for submission of a Bid by contacting the Purchasing and Contracts Department in writing, if no mandatory site visit is scheduled. All questions after the site visit shall be submitted to the Purchasing and Contracts Department in writing. The Purchasing and Contracts Department will coordinate a site visit between the Bidder and the Project Manager for this project. Bidder agrees to restore the site to its former condition upon completion of such explorations, investigations, tests, and studies. Bidder shall comply with all applicable laws and regulations relative to excavation and utility locates while accessing the site.

8. BIDDER'S RESPONSIBILITIES: It is the responsibility of each Bidder before submitting a Bid to:

8.1. Read and completely understand the requirements and the specifications of the items Bid.

8.2. Use complete sets of Bidding documents in preparing Bids; neither Owner nor Engineer assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding

documents.

8.3. Examine and carefully study the Bid documents, other related data identified in the Bidding documents, and any Addenda.

8.4. Make all investigations necessary to thoroughly inform themselves regarding all drawings, specifications, delivery requirements, performance requirements, site locations, and all Solicitation instruction to satisfy themselves of conditions affecting submission of their Bid and the terms and cost of performing the Contract. No pleas of ignorance by the Bidder of conditions that exist or may hereafter exist as a result of failure or omission on the part of the Bidder to make the necessary examinations and investigations, or failure to fulfill in every detail the requirements of the Contract documents, will be accepted as a basis of varying the requirements of the County or the compensation of the Bidder. Bidder agrees that submittal of a Bid for the work is prima facie evidence he (they) have conducted such examinations.

8.5. Request access to the site to become familiar with general, local, and site conditions that may affect cost, progress, and performance of the work.

8.6. Become familiar with all federal, state, and local laws and regulations that may affect cost, progress, or performance of the work.

8.7. Obtain and carefully study all additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions (surface, subsurface, and underground facilities) at or contiguous to the site which may affect cost, progress, or performance of the work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by the Bidder, including applying any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Bidding documents, and safety precautions and programs incident thereto.

8.8. Agree at the time of submitting its Bid that no further examinations, investigations, explorations, tests, studies, or data are necessary for the determination of its Bid for performance of the work at the price(s) Bid and within the times and in accordance with the other terms and conditions of the Bid Documents.

8.9. Become aware of the general nature of the work to be performed by Owner and others at the site that relates to the work as indicated in the Bid Documents.

8.10. Correlate the information known to Bidder, information and observations obtained from visits to the site, reports and drawings identified in the Bid documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Bid documents.

8.11. Promptly give Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder discovers in the Bid documents and confirm that the written resolution thereof by Engineer is acceptable to Bidder.

8.12. Determine that the Bid documents are generally sufficient to indicate and convey understanding of all terms and conditions for the performance of the work.

8.13. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for one hundred twenty (120) days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

8.14. Bidder has enclosed a certified check, cashier's check or Bid Bond **in the amount of not less than the five percent (5%) of the Total Base Bid Amount** payable to the Hernando County Board of County Commissioners as a guarantee for the purpose set out in the Instructions to Bidders.

9. QUESTIONS REGARDING SPECIFICATIONS OR BIDDING PROCESS:

9.1. To ensure fair consideration for all Bidders, the County prohibits communication to or with any department, division or employee during the Bid process, except as provided below:

9.1.1. All questions relative to interpretation of the specifications or the Bid process shall be addressed in writing as indicated below, in ample time prior to the period set for submittal and opening of the Bids.

9.1.2. Any interpretation or clarification made to prospective Bidders will be expressed in the form of an addendum which, if issued, will be posted on the www.BidNetDirect.com. Oral answers will not be authoritative.

9.1.3. It will be the responsibility of the Bidder to visit www.BidNetDirect.com to insure they are aware of all addenda issued for this Solicitation.

9.1.4. Questions must be submitted via e-mail to purchasing@hernandocounty.us with a copy to Dkafrissen@hernandocounty.us or faxed to (352) 754-4199. Questions will only be accepted through the period specified in Paragraph 4 above.

9.1.5. All addenda must be acknowledged by signing and submitted with the Bid. Failure of any Bidder to submit any addenda may be found non-responsive and subject to rejection.

10. COMMUNICATION:

10.1. There shall be no communication between the Vendor/Contractor, their employees or Sub-Contractors and County employees and elected officials (hereafter referred to as "County Representative"), except through the Purchasing and Contracts Department. Any attempt to communicate with any County Representative outside the Purchasing Department will be considered a violation of the Purchasing Policy and may result in the rejection of your Bid.

11. WITHDRAWAL OF BIDS:

11.1. Bids may be withdrawn by written request received from Bidder prior to the time fixed for opening. Negligence on the part of the Bidder in preparing the Bid confers no right for the withdrawal of the Bid after it has been opened. Faxed or Electronically mailed withdrawals will not be recognized. No Bidder may withdraw their Bid after the scheduled opening time for receipt of Bids.

12. BID PROTESTS:

12.1. Any Bidder who protests the Bid specifications or Award or Intent to Award, must file with the County a notice of protest and formal written protest in compliance with Chapter 28-110, Florida Administrative Code, and applicable provisions in Section 120.57, F.S. (current version). Failure to timely file such documents will constitute a waiver of proceedings under Chapter 120, F.S. (current version).

13. QUALIFICATION OF BIDDERS:

13.1. The Vendor/Contractor shall have previous experience in the type of construction work specified herein, and experience in the installation of the materials to be provided for the project specified herein.

13.2. The Vendor/Contractor and/or Sub-Contractors shall be an appropriately licensed Contractor in the State of Florida at the time of the Bid and must have successfully completed a minimum of two (2) projects of similar size and complexity in the past seven (7) years.

13.3. The Vendor/Contractor's Project Superintendent must have a minimum of three (3) years' experience as Project Superintendent and must have directed at least two (2) previous projects of similar size and complexity.

13.4. Bidders shall submit evidence of this experience on the forms provided in the Bid Documents, along with the accompanying information requested below:

13.4.1. Overview of construction experience, including a list of projects successfully completed and indicating Owner, location, Contract value and completion date.

13.4.2. Documentation of two (2) projects, similar in scope and complexity to this project, which have been successfully completed by the Bidder within the past seven (7) years.

13.4.3. Identification of firms comprising the Vendor/Contractor's team on the Construction Contractor Qualification Submittal Package in attached to Section VIII, Attachment 9.

13.4.4. Resumes of the Vendor/Contractor's Project Superintendent documenting the experience required for these individuals.

13.5. Failure to submit this information may be basis for rejection of the Bid.

14. QUALIFICATION OF SUBCONTRACTORS, MATERIAL VENDOR, SUPPLIERS, AND OTHERS:

14.1. The Vendor/Contractor will, within ten (10) days after execution of the Agreement, submit to the County through the Owner Designated Representative for acceptance a list of the names of Sub-Contractors and such other persons and organizations proposed for those portions of the work as to which the identity of the Sub-Contractors and other persons and organizations must be submitted as specified in the Contract Documents. The Owner Designated Representative will notify the Vendor/Contractor in writing if the Owner Designated Representative, after due investigation, has reasonable objection to any Sub-Contractor, person or organization on such list. The failure of the Owner Designated Representative to make objections to any Sub-Contractor, person or organization on the list shall constitute an acceptance of such Sub-Contractor, person or organization. Acceptance of any such Sub-Contractor, person or organization shall not constitute a waiver of any right of the County to reject defective work, material or equipment, or work material or equipment not in conformance with the requirements of the Contract Documents.

14.2. If the apparent successful Bidder declines to make any such substitution, County may award the Contract to the next lowest responsive, responsible Bidder that proposes to use acceptable Sub-Contractors, suppliers, individuals, or entities. Declining to make requested substitutions will not constitute grounds for forfeiture of the Bid security of any Bidder. Any Sub-Contractor, supplier, individual, or entity so listed and against which the County and Owner Designated Representative makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to the County and Owner Designated Representative subject to revocation of such acceptance after the Effective Date of the Agreement.

14.3. Vendor/Contractor shall not be required to employ any Sub-Contractor, supplier, individual, or entity against whom Vendor/Contractor has reasonable objection.

14.4. The Vendor/Contractor agrees that he is as fully responsible to the County for the acts and omissions of his Sub-Contractors and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him. Nothing contained in the Contract Documents shall create any Contractual relation between any Sub-Contractor and the County.

15. EXAMINATION OF BIDDING DOCUMENTS, OTHER RELATED DATA, AND SITE:

15.1. Subsurface and Physical Conditions:

15.1.1. The Technical Specifications will identify:

15.1.1.1. Any reports of explorations and tests of subsurface conditions at or contiguous to the site that Engineer has used in preparing the Bidding documents.

15.1.1.2. Any drawings of physical conditions in or relating to existing surface and subsurface structures at or contiguous to the site (except Underground Facilities) that Engineer has used in preparing the Bid Documents.

15.1.2. Copies of any reports and drawings referenced in the Solicitation Documents will be made available by Owner to any Bidder on www.BidNetDirect.com. Bidder is responsible for any interpretation or conclusion Bidder draws from any “technical data” or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

15.2. Underground Facilities:

15.2.1. Information and data shown or indicated in the Bidding documents with respect to existing Underground Facilities at or contiguous to the site is based upon information and data furnished to Owner and Engineer by owners of such Underground Facilities, including Owner, or others.

15.3. Hazardous Environmental Condition:

15.3.1. The Technical Specifications identify any reports and drawings relating to a Hazardous Environmental Condition identified at the site that Engineer has used in preparing the Bid Documents.

16. BID GUARANTEE/BID BOND:

16.1. Each Bid must be accompanied by a certified check, cashier's check, official bank check or Bid bond payable to the Owner for an amount equal to at least five percent (5%) of the amount of Bid, as guarantee that the Bidder will within fifteen (15) consecutive calendar days after award, enter into a written Contract with the County for the performance of the work as awarded.

16.2. Any submitted Bid bond must be submitted to the County in duplicate. The duplicate copy must be a photographic reproduction of the completed form set forth in Section VIII of this Solicitation and clearly marked "Copy".

16.3. Any submitted checks shall be drawn on a solvent bank or trust company to the order the Hernando County Board of County Commissioners and shall have all necessary documentary revenue stamps attached, if required by law.

16.4. Surety of Bid bonds shall be a duly authorized surety company authorized to do business in the State of Florida; all such bonds being issued or countersigned by a local producing agent who is a resident of the State of Florida and satisfactory evidence of the authority of the person or persons executing such bond being submitted with the bond. Personal checks are not acceptable to Hernando County.

16.5. The County will, within ten (10) days after the Notice of Intent to Award, return the deposit of all Bidders except those posted by the three (3) lowest acceptable Bidders, whose deposit will be returned upon the final award and execution of the Contract between the successful Bidder and County, and after a satisfactory Performance Bond and Payment Bond have been executed.

16.6. Attorneys-in-fact who sign bonds or other surety instruments must attach with each bond or surety instrument a certified and effectively dated copy of their power of attorney.

16.7. If the successful Bidder fails to execute and deliver the Contract Documents and furnish the required Contract security within fifteen (15) days after the Notice of Award, Owner may withdraw the Notice of Award and the Bid bond of that Bidder will be forfeited. The Bid bond of other Bidders whom Owner believes to have a reasonable chance of receiving the award may be retained by Owner until the earlier of seven (7) days after the Effective Date of the Agreement or sixty-one (61) days after the Bid opening, whereupon Bid bonds furnished by such Bidders will be returned.

16.8. Bid bonds of other Bidders whom Owner believes do not have a reasonable chance of receiving the award will be returned within thirty (30) days after the Bid opening.

16.9. Bidders desiring their original Bid bonds returned shall enclose a self-addressed stamped envelope with their Bids marked "Bid Bond" in the lower left corner.

17. PERFORMANCE AND PAYMENT BOND:

17.1. A Performance and Payment Bond issued in a sum equal to one hundred (100%) percent of the total awarded Contract amount by a surety company considered satisfactory by the County and otherwise authorized to transact business in the State of Florida will be required from the successful Bidder for purposes of insuring the faithful performance of the obligations imposed by the resulting Contract and for purposes of protecting the County from lawsuits for non-payment of debts as might be incurred during the successful Bidder's performance under such Contract. When applicable, the performance and payment bond form will be included in the Contract Documents and said form must be properly executed by the surety company and successful Bidder within fifteen (15) calendar days after notification by the County of the County's intent to award the Contract.

17.2. If, within fifteen (15) calendar days after notification by the County of the County's intent to award a Contract, the successful Bidder refuses or otherwise neglects to execute the required written Contract or fails to furnish the required Performance and Payment Bond, the amount of the Bidder's Bid security (check or Bid Bond) shall be forfeited and the same shall be retained by the County. No plea of mistake in the Bid or misunderstanding of the conditions of forfeiture shall be available to the Bidder for the recovery of his Bid security or as a defense to any action based upon the neglect or refusal to execute a written Contract.

17.3. The surety company must provide an "Increase Rider" to the Performance and Payment Bond or execute the "Consent of Surety and Increase of Penalty" form provided by the County if the Contract is increased by change order.

SECTION III - GENERAL CONDITIONS

18. CONTRACT DOCUMENTS: The following constitute the Contract Documents (Title, Subtitles, Headings, Running Headlines, Table of Contents, and Indexes are used merely for convenience purposes):

Solicitation-Offer-Award
(Cover Page)

Advertisement of Bid
(Section I)

Solicitation Instructions
(Section II)

General Conditions
(Section III)

Special Conditions
(Section IV)

Supplementary Conditions for Federal/State Requirements
(Section V) - NA

Scope and Specifications
(Section VI)

Bid Form
(Section VII)

Required Forms and Certifications
(Section VIII)

Construction Agreement and Required Documents after Award
(Section IX)

Reference Documents
(Section X)
Exhibit A – General Requirements and Technical Specifications
Exhibit B – Plans/Drawings

18.1. All addenda issued by the County prior to the receipt of Bids and all supplementary drawings issued after award of the Contract become part of the Contract Document.

18.2. Amending and Supplementing Contract Documents:

18.2.1. The Contract Documents may be amended to provide for additions, deletions, and revisions in the work or to modify the terms and conditions thereof by Change Order.

18.2.2. The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the work may be authorized, by one (1) or more of the following ways:

18.2.2.1. A Field Order;
18.2.2.2. Engineer's approval of a shop drawing or sample; or
18.2.2.3. Engineer's written interpretation or clarification per the provisions described in the Contract Documents.

18.2.3. In resolving such conflicts, errors and discrepancies, the documents shall be given preference in the following order: Agreement, Specifications, Drawings, Solicitation Instructions. Within the specifications the order of preference shall be as follows: Addenda, General Conditions, Technical Specifications. Figure dimensions on drawings shall govern over scale dimensions, and the detailed drawings shall govern over general drawings. Any work that may reasonably be inferred from the specifications or drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work materials or equipment described in words which so applied have a well-known technical or trade meaning shall be deemed to refer to such recognized standards. In case of conflict the more stringent requirements shall take precedence and govern.

18.2.4. The Vendor/Contractor shall take no advantage of any error or omission in the plans or of any discrepancy between the plans and specifications, and the Engineer shall make such interpretation as may be deemed necessary for the fulfillment of the intent of the plans and specifications as construed by him and his decision shall be final.

18.3. All provisions required by law to be inserted in this Contract, whether actually inserted or not.

18.4. Exhibits to this Agreement (as follows):

18.4.1. Vendor/Contractor's Bid.

18.4.2. Documentation submitted by Vendor/Contractor after the Notice of Award:

18.4.2.1. Insurance Certificate.
18.4.2.2. Payment and Performance Bond.

18.4.3. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:

18.4.3.1. Notice to Proceed.
18.4.3.2. Change Order(s).

18.5. The documents listed in this Paragraph are attached to the Agreement (except as expressly noted otherwise).

18.6. There are no Contract Documents other than those listed in this Paragraph.

18.7. The Contract Documents may only be amended, modified, or supplemented as provided in the Contract Documents.

19. BID PRICE/SUBMITTAL REQUIREMENTS:

19.1. The prices Bid shall remain firm during the period of the Contract. The prices Bid shall be inclusive of all labor, equipment, and materials as specified within this Solicitation. The price Bid constitutes the total compensation payable to the Vendor/Contractor for performing the work.

19.2. Unless otherwise stated, the prices Bid shall include all costs of packing, transporting, delivery, and services to the designated point within Hernando County.

19.3. The Bidder hereby certifies that this Bid is made without prior understanding, Agreement, or connection with any corporation, firm, or person submitting a Bid for the same materials, supplies, services, or equipment and is in all respects fair and without collusion or fraud. Further, the Bidder hereby agrees to abide by all terms and conditions of this Bid and certifies that the person executing the Bid form is authorized to sign this Bid for the Bidder.

19.4. Bidders shall submit a lump sum Bid based on unit price line item components as indicated on the Bid Form, and include a separate price for each alternate described in the Bidding documents and provided for in the Bid Form. The sum of each unit price line item will be the Total Base Bid. The price for each alternate will be the amount added to or deducted from the Total Base Bid if the County selects the alternate.

19.5. Discrepancies between the multiplication of units of work and unit prices will be resolved in favor of the unit prices. Discrepancies between the indicated sum of any column of figures and the correct sum thereof will be resolved in favor of the correct sum. Discrepancies between words and figures will be resolved in favor of the words.

19.6. Bidder must submit the Solicitation-Offer-Award Cover Sheet, Bid Form and all required Forms and Certifications. Failure to submit these forms may render the Bid non-responsive.

20. HOURS:

20.1. All work is to be performed during regular working hours, **8:00 A.M. and 6:00 P.M.**, Monday through Friday, except County holidays. The County may, on certain occasions, approve work outside of these times. Such exception(s) must be approved in writing by the County at least one (1) day in advance. Vendor/Contractor should provide five (5) days' notice when scheduling a County employee to be available outside the normal work hours.

21. REJECTION OF BID:

21.1. The County reserves the right to reject any and all Bids. Bids which are incomplete, unbalanced, conditional, obscure or which contain additions not required, or irregularities of any kind, or which do not comply with every aspect of this Solicitation, may be rejected at the option of the County. A Bidder shall not be qualified to bid when an investigation by the Chief Procurement Officer finds the Bidder delinquent on a previously Awarded Contact or in litigation with Hernando County previously awarded Contract.

22. MINOR INFORMALITIES AND IRREGULARITIES:

22.1. Hernando County has the right to waive minor defects or variations of a Bid from the exact requirements of the specifications that do not affect price, quality, quantity, delivery, or performance time of the services being procured. If insufficient information is submitted by a Bidder with the Bid for Hernando County to properly evaluate the Bid, Hernando County has the right to require such additional information as it may deem necessary after the time set for receipt of Bids, provided that the information requested does not change the price, quality, quantity, delivery or performance time of the services being procured. The Board of County Commissioners reserves the right to reject any or all Bids in whole or in part; to award by any item, group(s) of items or in the aggregate whichever is most advantageous to the County.

23. NON-EXCLUSIVE CONTRACT:

23.1. Award of a Contract resulting from this Bid imposes no obligation on the County to utilize the Vendor/Contractor for all work of this type, which may develop during the Contract period. This is not an exclusive Contract. The County specifically reserves the right to Contract with another company for similar work if it deems such action to be in the County's best interest.

24. NON-PERFORMANCE:

24.1. Time is of the essence in this Contract and failure to deliver the services specified within the time period required shall be considered a default.

24.2. In case of default, the County may procure the services from other sources and hold the Vendor/Contractor responsible for all costs occasioned thereby and may immediately cancel the Contract.

25. ASSIGNMENT:

25.1. The successful Bidder is required to perform this Contract and may not assign, transfer, convey, sublet or otherwise dispose of any award or any or all of its rights, title, or interest therein, or the resulting Contractual Agreement in whole or in part without prior written authorization given at the sole discretion of Hernando County.

26. PUBLIC ENTITY CRIMES:

26.1. Any person submitting a Bid or proposal in response to this invitation certifies that they are aware of, and in compliance with, all requirements under Section 287.133, Florida Statutes (current version), on Public Entity Crimes. Bidders must complete and return with Bid the Sworn Statement to Public Entity Crimes attached in Section VIII, Attachment 4.

27. LICENSES AND PERMITS:

27.1. Prior to furnishing the requested product(s) or service(s), it shall be the responsibility of the awarded Vendor/Contractor to obtain, at no additional cost to Hernando County, any and all licenses and permits required to complete this Contractual service, unless otherwise stated in the Contract documents. These licenses and permits shall be readily available for review by the Chief Procurement Officer or his/her designee. Failure to have and/or furnish the required licenses or permits may be cause for rejection.

27.2. The Vendor/Contractor is hereby notified that a list of fees for construction related County certified licenses and County issued permits can be located at:
https://www.hernandocountygis-fl.us/BldgDept/General.

27.3. The following permits are necessary, but not limited to, for prosecution of the work. Vendor/Contractor and/or Sub-Contractors shall obtain and pay for required permits. Notice to Proceed will not be issued until the permits are provided to the Project Manager.

27.3.1. NPDES-NOI Permit - The NPDES-FDEP legislations and permit information can be found on this site: http://www.dep.state.fl.us/water/stormwater/npdes/construction1.htm
27.3.2. FDEP Car Wash Permit
27.3.3. Right-of-Way Use Permit
27.3.4. Signs Permit
27.3.5. Irrigation Permit
27.3.6. Sprinkler Permit
27.3.7. Fire Alarm Permit
27.3.8. Hood Permit
27.3.9. LP/NG Gas Permit
27.3.10. File Lines Permit
27.3.11. Low Voltage Permit
27.3.12. Cooler/Freezer Permit

27.4. Vendor/Contractor and/or Sub-Contractors shall be responsible for complying with all State of Florida and Hernando County License requirements prior to Bidding on County projects and shall submit proof of licenses with the Bid. All licenses shall be in the Bidder's name or the Key Sub-Contractor's name, as listed in Attachment 9. Failure to submit proof of the required licenses shall deem the Bidder non-responsive. The following licenses are necessary, but not limited to, for prosecution of the work:

27.4.1. General Contractor's License

27.5. Vendor/Contractors and/or Sub-Contractors who are not properly licensed and/or do not furnish proof thereof with their Bid, may be deemed non-responsive and may be rejected.

27.6. Owner shall assist Vendor/Contractor, when necessary, in obtaining such permits and licenses. Vendor/Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the work which are applicable at the time of opening of Bids. Owner shall pay all charges of utility owners for connections for providing permanent service to the work.

28. LAWS, REGULATIONS, PERMITS AND TAXES:

28.1. The Bidder's attention is directed to the fact that all applicable Federal and State laws, municipal and county ordinances, and the rules and regulations of all authorities having jurisdiction over any part of the project shall apply to the Contract throughout, and they will be deemed to be included in the Contract the same as through herein written.

28.2. Vendor/Contractor shall comply with County's jobsite procedures and regulations and with all applicable local, state and federal laws, rules and regulations and shall obtain all permits required for any of the work performed hereunder. Vendor/Contractor shall procure and pay for all permits and inspections required for any of the work performed hereunder and shall furnish any bonds, security or deposits required to permit performance of the work. Vendor/Contractor shall, to the extent permissible under applicable law, comply with the jobsite provisions which validly and lawfully apply to work on the specific jobsite being performed under this Contract. County of Hernando is exempt from Federal Excise Taxes and all Sales Taxes.

28.3. Vendor/Contractor shall give all notices required by and shall comply with all laws and regulations applicable to the performance of the work. Except where otherwise expressly required by applicable laws and regulations, neither Owner nor Engineer shall be responsible for monitoring Vendor/Contractor's compliance with any laws or regulations.

28.4. If Vendor/Contractor performs any work knowing or having reason to know that it is contrary to laws or regulations, Vendor/Contractor shall bear all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or **arbitration** or other dispute resolution costs) arising out of or relating to such work. However, it shall not be Vendor/Contractor's primary responsibility to make certain that the specifications and drawings are in

accordance with laws and regulations, but this shall not relieve Vendor/Contractor of Vendor/Contractor's obligations of reporting discrepancies.

28.5. Changes in laws or regulations not known at the time of opening of Bids having an effect on the cost or time of performance of the work shall be the subject of an adjustment in Contract Price or Contract Times. If Owner and Vendor/Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a claim may be made therefore as provided in the Contract Documents.

29. SITE AND OTHER AREAS:

29.1. The site is identified in the Bid documents. Easements for permanent structures or permanent changes in existing facilities are to be obtained and paid for by Owner unless otherwise provided in the Bid documents. All additional lands and access thereto required for temporary construction facilities, construction equipment, or storage of materials and equipment to be incorporated in the work are to be obtained and paid for by Vendor/Contractor.

30. TAXES:

30.1. The Board of County Commissioners, Hernando County, Florida, has the following tax exemption certificates assigned:

30.1.1. Sales & Use Tax Exemption Certificate No. 85-8012556945C-8, effective 1/31/2019 – expiring on 1/31/2024.

30.2. This exemption does not apply to purchases of tangible personal property made by Vendor/Contractors who use the tangible personal property in the performance of Contracts for improvements of County owned real property (Chapters 192 and 212, F.S. (current version) and applicable rules of the Department of Revenue).

30.3. State sales tax and use taxes on materials and equipment are to be incorporated in the price Bid.

30.4. Vendor/Contractor shall pay all sales, consumer, use, and other similar taxes required to be paid by Vendor/Contractor in accordance with the laws and regulations of the place of the project which are applicable during the performance of the work.

31. MANUFACTURERS' NAME AND APPROVED EQUIVALENTS:

31.1. Whenever a particular brand or make of material, equipment, or other item is specified, or is indicated on the Drawings, it is for the purpose of establishing a standard of quality, design, and type desired and to supplement the detailed specifications. Any other brand or make which is equivalent to that specified or indicated may be offered as an equivalent prior to the Solicitation Last Date of Inquiries deadline, for review and approval by Hernando County subject to the following provisions:

31.1.1. The Vendor/Contractor shall submit for each proposed equivalent sufficient details, complete descriptive literature, and performance data together with samples of the materials, where feasible, to enable the Engineer of Record to determine if the proposed equivalent is equal, in all respects including, but not limited to, quality, performance, ease of maintenance, availability of spare parts, and experience record.

31.1.2. The Vendor/Contractor shall submit certified tests, where applicable, by an independent laboratory attesting that the proposed equivalent is equal.

31.1.3. A list of installations where the proposed equivalent is used. Such listing shall cover a minimum of the previous three (3) years and will furnish project names and contact phone numbers.

31.1.4. Where the acceptance of an equivalent requires excessive review by the Engineer of Record, revision or redesign of any part of the Work, all such additional review costs, revisions and redesign, and all new drawings and details required therefore, shall be at the Vendor/Contractor's expense.

31.1.5. In all cases the Engineer of Record and Hernando County shall have the sole right as to whether a proposed equivalent is to be accepted. The Vendor/Contractor shall abide by the Engineer of Record and Hernando County's decision when proposed equivalent items are judged to be unacceptable and shall in such instances furnish the item as specified. No equivalent items shall be used in the Work without written acceptance by the Engineer of Record.

31.1.6. Acceptance of any proposed equivalent shall in no way release the Vendor/Contractor from any of the provisions of the Contract Documents.

31.1.7. Hernando County may require, at Vendor/Contractor's expense, a special performance guarantee or other surety with respect to any equivalent.

31.1.8. Bids which do not comply with these requirements are subject to rejection.

32. BID EVALUATION AND AWARD:

32.1. At the time of submitting a Bid response, the County requires that the Bidder to be properly licensed and registered to do business in the State of Florida in accordance with applicable Florida Statutes (F.S.). Bid responses that fail to provide the required forms listed in Section VIII may be rejected as non-responsive. Bidders whose responses, past performance, or current status do not reflect the capability, integrity or reliability to fully and in good faith perform the requirements of the Bid may be rejected as non-responsible. The County reserves the right to determine which responses meet the requirements of this Solicitation, and which Bidders are responsive and responsible. The County reserves the right before awarding the Bid, to require a Bidder to submit such evidence of their qualifications as it may deem necessary, and may consider any evidence available to it of the financial, technical, and other qualifications and abilities of a Bidder to perform the work in a satisfactory manner and within the time specified. The Bidder is assumed to be familiar with all federal, state or local laws, ordinances, rules and regulations that in any manner affect the work, and to abide thereby if awarded the Bid. Ignorance of legal requirements on the part of the Bidder will in no way relieve responsibility.

32.2. Bid evaluation will be based on price, conformance with specifications and the Bidder's ability to perform the Contract in accordance with the terms and conditions required. Bidders must submit all data necessary to evaluate and determine the quality of the item(s) and/or services they are Bidding.

32.3. The County intends to award this Contract to the lowest, responsive and responsible Bidder or Bidders. However, the County reserves the right to reject any and all Bids in accordance with the Hernando County Procurement Ordinance.

32.4. The ability of a Bidder to obtain a performance and payment bond shall not be regarded as the sole test of such Bidder's competency or responsibility.

32.5. Nothing contained herein shall place a duty upon the Hernando County Board of County Commissioners to reject Bids or award a Contract based upon anything other than its sole discretion as described herein.

32.6. Bidders are not permitted to submit more than one (1) Bid for this project. Reasonable grounds for believing that any Bidder has an interest in more than one (1) Bid for this project may be cause for disqualification of that Bidder and the rejection of all Bids in which that Bidder has an interest.

32.7. Owner will consider whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.

32.8. Owner will consider the qualifications of Bidders and may consider the qualifications and experience of Sub-Contractors, suppliers, and other individuals or entities proposed for those portions of the work for which the identity of Sub-Contractors, suppliers, and other individuals or entities must be submitted.

32.9. The County reserves the right to make such investigations as they may deem necessary to establish the competency and financial ability of any Bidder, proposed Sub-Contractors, Supplier, or individuals to

perform the work; and if after investigation, the evidence of his competency or financial ability is not satisfactory, the County reserves the right to reject his Bid.

32.10. If two (2) or more fully responsive, responsible Bids are received for the same total amount or unit price, quality and service being equal, the County reserves the right to award the Contract to the Bidder whose place of business is located within the boundaries of Hernando County, Florida. Should tie Bids, as described above, be received from either two (2) or more Hernando County Bidders or from non-local Bidders when no Hernando County Bidder has submitted a tie Bid, then the Board of County Commissioners shall award the Contract to one (1) Vendor/Contractor by drawing lots in a public meeting.

33. LOCAL PREFERENCE:

33.1. Purpose and Findings: These provisions apply to purchases using Formal Bid, Request for Proposals or Quotes. The County annually spends significant dollars on purchasing personal property, materials, and services, and in constructing improvements to real property or existing structures. The dollars used in making those purchases are derived, in large part, from taxes, fees and utility revenues paid by businesses located within Hernando County, and the County Commission has determined that funds generated in the community should, to the extent possible, be placed back into the local economy. Therefore, the County Commission has determined that it is in the best interest of the County to give a preference to local businesses in making such purchases whenever the application of such a preference is reasonable in light of the dollar-value of Bids and quotes received in relation to such expenditures.

33.2. Application:

33.2.1. In Bidding for, or letting Contracts for procurement of supplies, materials, equipment, and services, as described in the purchasing policies of the County, the Board of County Commissioners may give a preference to local businesses in making purchases or awarding Contracts in an amount not to exceed:

33.2.1.1. Five percent (5%) of the local business' total Bid price if the cost differential does not exceed $10,000.00 for procurement activities in amounts over $35,000.00, or

33.2.1.2. Three percent (3%) if the cost differential does not exceed $1,000.00 for procurement activities in amounts more than $10,000.00, but less than $35,000.

33.2.2. The total Bid price shall include not only the base Bid price, but also all alterations to the base Bid price resulting from alternates which were both part of the Bid and actually purchased or awarded by the Board of County Commissioners.

33.2.3. In the case of requests for proposals or qualification, letters of interest, or other Solicitations and competitive negotiations and selections in which objective factors are used to evaluate the responses, local businesses shall be assigned five percent of the total points of the total evaluation points.

33.3. Definitions:

33.3.1. Local Vendor means a person or business entity which has maintained a permanent place of business with full-time employees within Hernando County for a minimum of twelve months prior to the date Bids or quotes were received for the purchase or Contract at issue, and which generally provides from such permanent place of business the kinds of goods or services solicited, and which at the time of the Solicitation fully complies with the local vendor eligibility identified in Paragraph 33.3.2 below.

33.3.2. Local Vendor Affidavit of Eligibility shall accompany the quotation or Bid submittal in order to be considered valid and shall include, but not be limited to, the following current information:

33.3.2.1. A physical business and location address;

33.3.2.2. Proof of payment of real property tax due to Hernando County;

33.3.2.3. A copy of the firm's most recent annual corporation report to the Florida Division of Corporations;

33.3.2.4. Any additional information necessary to verify local status.

33.4. Competitive Bids/Quotes: The County reserves the exclusive right to compare, contrast and otherwise evaluate the qualifications, character, responsibility and financial qualifications of all persons, firms, partnerships, companies or corporations submitting formal Bids or formal quotes in any procurement for goods and services when making an award in the best interests of the County.

33.5. Exemptions:

33.5.1. Purchases resulting from exigent emergency conditions where any delay in completion or performance would jeopardize public health, safety, or welfare of the citizens of the County, or where in the judgment of the County the operational effectiveness or a significant County function would be seriously threatened if a purchase was not made expeditiously.

33.5.2. Purchases with any sole source supplier for supplies, materials, or other equipment.

33.5.3. Purchases made through cooperative purchasing arrangements utilized by the Purchasing Department as identified in the Purchasing Policy.

33.5.4. Purchases that are funded in whole or in part by assistance from any federal, state, or local agency where the program guidelines do not permit local preference.

33.5.5. Purchases with an estimated cost of less than $10,000.00 or less.

33.6. Appeal: If an application for a "Local Vendor/Contractor" designation is denied, the applicant may appeal such decision to the County Administrator for review and further consideration.

34. QUALIFICATIONS OF SURETY COMPANIES:

34.1. In order to be acceptable to the Owner, a surety company issuing Bid Guaranty bonds, or **100% Performance/Payment bonds**, called for in these Contract Documents, shall meet and comply with the following minimum standards:

34.1.1. Surety must be admitted to do business in the State of Florida and shall comply with the provisions of Florida Statute 255.05 (current version).

34.1.2. Surety companies executing bonds must appear on the United States Treasury Departments most current list (CIRCULAR 570 AS AMENDED).

34.1.3. Attorneys-in-fact who sign Bid bonds or performance/payment bonds must file with such bond a certified copy of their power of attorney to sign such bond.

34.1.4. Agents of surety companies must list their name, address and telephone number on all bonds.

34.1.5. If the surety on any Bond furnished by the successful Bidder is declared bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the project is located or it ceases to meet the requirements provided in this Paragraph, Bidder (Vendor/Contractor) shall within five (5) days thereafter, substitute another Bond and Surety, both of which must be acceptable to the County.

35. LITIGATION/WAIVER OF JURY TRIAL:

35.1. This Agreement shall be governed by and construed according to Florida law. Venue for any dispute or formal litigation concerning this Agreement shall be in the appropriate court with territorial jurisdiction over Hernando County, Florida. In the event of a dispute or litigation, each party to such dispute or litigation shall be solely responsible for its own attorneys' fees and costs. This Agreement shall not be construed for or against any party hereto, without regard to which party is wholly or partly responsible for its drafting. Each Party acknowledges that it is aware of and has had the opportunity to seek advice of counsel of its choice with respect to its rights to trial by jury, and each Party, for itself and its successors, creditors, and assigns, does hereby expressly and knowingly waive and release all such rights to trial by jury in any action, proceeding or counterclaim brought by any Party hereto against the other (and/or against its officers, directors, employees, agents, or subsidiary or affiliated entities) on or with regard to any matters whatsoever arising out of or in any way connected with this Contract and/or any other claim of injury or damage.

36. MAINTENANCE OF RECORDS:

36.1. The Vendor/Contractor will keep adequate records and supporting documents applicable to this Contract. Said records and documentation will be retained by the Vendor/Contractor for a minimum of five (5) years from the date of final payment on this Contract. The County and its authorized agents shall have the right to audit, inspect and copy records and documentation as often as the County deems necessary during the period of this Contract and a period of five (5) years after completion of Contract performance; provided however, such activity shall be conducted only during normal business hours. The County during the period of time defined by the preceding sentence, shall also have the right to obtain a copy of and otherwise inspect any audit made at the direction of the Vendor/Contractor as concerns the aforesaid records and documentation. Pursuant to Section 119.0701, Florida Statutes (current version), Consultant/Firm shall comply with the Florida Public Records' laws and shall:

36.1.1. Keep and maintain records that ordinarily and necessarily would be required by the public agency in order to perform the service;

36.1.2. Provide the public with access to public records on the same terms and conditions that the public agency would provide the records and at a cost that does not exceed the cost provided in Chapter 119, F.S., or as otherwise provided by law.

36.1.3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirement are not disclosed except as authorized by law; and,

36.1.4. Meet all requirements for retaining public records and transfer, at no cost, to the public agency all public records in possession of the Consultant/Firm upon termination of the Contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the public agency in a format that is compatible with the information technology systems of the public agency.

36.1.5. Failure to comply with this section shall be deemed a breach of the Contract and enforceable as set forth in Section 119.0701, Florida Statutes (current version).

IF THE CONTRACTOR HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES (CURRENT VERSION), TO THE CONTRACTOR'S DUTY TO PROVIDE PUBLIC RECORDS RELATING TO THIS CONTRACT, CONTACT THE CUSTODIAN OF PUBLIC RECORDS AT 352-754-4020, JWUNDERLE@HERNANDOCOUNTY.US**, WITH AN OFFICE LOCATED AT 15470 FLIGHT PATH DR., BROOKSVILLE, FL 34604.**

37. FISCAL NON-FUNDING:

37.1. In the event sufficient budgeted funds are not available for a new fiscal period, the County must notify the Vendor/Contractor of such occurrence and Contract shall terminate on the last day of current fiscal period without penalty or expense to the County.

38. CONFLICT OF INTEREST:

38.1. Conflict of Interest of Officers or Employees of the Contracting Entity/Local Jurisdiction, Members of the Local Governing Body, or Other Elected Officials: No member or employee of the Contracting entity/local jurisdiction or its designees or agents; no member of the governing body; and no other public official of Hernando County who exercises any function or responsibility with respect to this Contract, during his/her tenure or for one (1) year thereafter, shall have any interest, direct or indirect, in any Contract or Sub-Contract, or the proceeds thereof, for work to be performed. Further, the Vendor/Contractor shall cause to be incorporated in all Sub-Contracts, the language set forth in this Paragraph prohibiting conflict of interest.

38.2. Employee Conflict of Interest: It shall be unethical for any Hernando County employee to participate directly or indirectly in a procurement Contract when Hernando County employee knows that:

38.2.1. Hernando County employee or any member of Hernando County employee's immediate family has a financial interest in the procurement Contract; or

38.2.2. Any other person, business, or organization with whom Hernando County employee or any member of a Hernando County employee's immediate family is negotiating or has an arrangement concerning prospective employment is involved in the procurement Contract; or

38.2.3. A Hernando County employee or any member of a Hernando County employee's immediate family who holds a financial interest in a disclosed blind trust shall not be deemed to have a conflict of interest with regard to matters pertaining to that financial interest.

38.3. Former Employee Conflict of Interest: It shall be a violation for any person, business or organization Contracting with County to employ in any capacity, any former County employee or member of County employee's

immediate family within one (1) year of that employee's separation from employment with the County, unless the employer or the former County employee files with the County Clerk, the County's Employment Disclosure Statement. The penalty for this violation may include disqualification of the Bid submission.

39. GRATUITIES AND KICKBACKS:

39.1. Gratuities: It shall be unethical for any person to offer, give, or agree to give any County employee or former County employee, or for any County employee or former County employee to solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, or preparation of any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity to the County.

39.2. Kickbacks: It shall be unethical for any payment, gratuity, or offer of employment to be made by or on behalf of a Sub-Contractor under a Contract to the prime Vendor/Contractor or higher tier Sub-Contractor or any person associated therewith, as an inducement for the award of a Sub-Contract or order.

40. E-VERIFY:

40.1. Vendor/Contractor is advised that the County has entered into an Agreement with U.S. Immigration and Customs Enforcement (ICE) wherein the County will, in part, seek to promote the principles of ethical business conduct, prevent the knowing hiring of unauthorized workers through self-governance, and encourage voluntary reporting of the discovery of unauthorized workers to ICE (the IMAGE Agreement). Accordingly, by submitting your Bid/Proposal, Vendor/Contractor represents and warrants (a) that the Vendor/Contractor is in compliance with all applicable federal, state and local laws, including, but not limited to, the laws related to the requirement of an employer to verify an employee's eligibility to work in the United States, (b) that all of the Vendor/Contractor employees are legally eligible to work in the United States, and (c) that the Vendor/Contractor has actively and affirmatively verified such eligibility utilizing the Federal Government's Employment Verification Eligibility Form (I-9 Form).

40.2. A mere allegation of Vendor/Contractor's intent to use and/or current use of unauthorized workers may not be a basis to delay the County's award of a Contract to the Vendor/Contractor unless such an allegation has been determined to be factual by ICE pursuant to an investigation conducted by ICE prior to the date the Contract is scheduled to be awarded by the County**.**

40.3. Legitimate claims of the Vendor/Contractor's use of unauthorized workers must be reported to both of the following agencies:

40.3.1. The County's Purchasing Contracts Department at (352) 754-4020: and
40.3.2. ICE (Immigration and Customs Enforcement) at 1-866-DHS-2-ICE.

40.4. In the event it is discovered that the Vendor/Contractor's employees are not legally eligible to work in the United States, then the County may, in its sole discretion, demand that the Vendor/Contractor cure this deficiency within a specified time frame, and/or immediately terminate the Contract without any cost or penalty to the County**,** and/or debar the Vendor/Contractor from Bidding on all County Contracts for a period up to twenty-four (24) months, and/or take any and all legal action deemed necessary and appropriate.

40.5. Vendor/Contractor is required to incorporate the following IMAGE Best Practices into its business and, when practicable, incorporate verification requirements into its Agreements with Sub-Contractors:

40.5.1. Use the Department of Homeland Security employment eligibility verification program (E-Verify) to verify the employment eligibility of all new hires.
40.5.2. Use the Social Security Number Verification Service and make good faith effort to correct and verify the names and Social Security numbers of the current workforce.
40.5.3. Establish a written hiring and employment eligibility verification policy.
40.5.4. Establish an internal compliance and training program related to the hiring and employment verification process, to include, but not limited to, completion of Form I-9, how to detect fraudulent use of documents in the verification process, and how to use E-Verify and the Social Security Number Verification Service.
40.5.5. Require the Form I-9 and E-Verify process to be conducted only by individuals who received appropriate training and include secondary review as of each employee's verification to minimize the potential for a single individual to subvert the process.

40.5.6. Arrange for annual Form I-9 audits by an external auditing firm or a trained employee not otherwise involved in the Form I-9 process.

40.5.7. Establish a procedure to report to ICE credible information of suspected criminal misconduct in the employment eligibility verification process.

40.5.8. Establish a program to assess Sub-Contractors' compliance with employment eligibility verification requirements. Encourage Vendor/Contractors to incorporate the IMAGE Best Practices contained in this Paragraph and, when practicable, incorporate the verification requirements in Sub-Contractor Agreements.

40.5.9. Establish a protocol for responding to letters received from Federal and State government agencies indicating that there is a discrepancy between the agency's information and the information provided by the employer or employee; for example, "no match" letters received from the Social Security Administration.

40.5.10. Establish a tip line mechanism (inbox, e-mail, etc.) for employees to report activity relating to the employment of unauthorized workers, and a protocol for responding to employee tips.

40.5.11. Establish and maintain appropriate policies, practices, and safeguards against use of the verification process for unlawful discrimination, and to ensure that U.S. Citizens and authorized workers do not face discrimination with respect to hiring, firing, recruitment or referral for a fee because of citizenship status or national origin.

40.5.12. Maintain copies of any documents accepted as proof of identify and/or employment authorization for all new hires.

41. INSURANCE REQUIREMENTS:

41.1. INDEMNITY, SAFETY AND INSURANCE PROVISIONS:

41.1.1. Indemnity: To the fullest extent permitted by Florida law, the Consultant/Firm covenants, and agrees that it will indemnify and hold harmless the County and all of the County's officers, agents, and employees from any claim, loss, damage, cost, charge, attorney's fees and costs, or any other expense arising out of any act, action, neglect, or omission by Consultant/Firm during the performance of the Contract, whether direct or indirect, willful or intentional, and whether to any person or property to which the County or said parties may be subject, except that neither the Consultant/Firm nor any of its Sub-Contractors, or assignees, will be liable under this section for damages arising out of injury or damage to persons or property directly caused or resulting from the sole negligence, willful or intentional, of the County or any of its officers, agents, or employees.

41.1.2. Protection of Person and Property:

41.1.2.1. The Vendor/Contractor will take all reasonable precautions for, and will be responsible for initiating, maintaining and supervising all programs relating to the safety of all persons and property affected by, or involved in, the performance of his operations under this Contract.

41.1.2.2. The Vendor/Contractor will take all reasonable precautions to prevent damage, injury or loss to: (a) all persons who may be affected by the performance of his operations, including employees; (b) all materials and equipment; and (c) all property at or surrounding the work site. In an emergency affecting the safety of persons or property, the Vendor/Contractor will act, with reasonable care and discretion, to prevent any threatened damage, injury or loss.

41.2. MINIMUM INSURANCE REQUIREMENTS: Vendor/Contractor shall procure, pay for and maintain at least the following insurance coverage and limits. Said insurance shall be evidenced by delivery to the County of a certificate(s) of insurance executed by the insurers listing coverage and limits, expiration dates and terms of policies and all endorsements whether or not required by the County, and listing all carriers issuing said policies. The insurance requirements shall remain in effect throughout the term of this Contract.

41.2.1. WORKERS' COMPENSATION: As required by law:

STATE.....Statutory

APPLICABLE FEDERAL.....		Statutory
EMPLOYER'S LIABILITY.....	Minimum :	$100,000 each accident
		$100,000 by employee
		$500,000 policy limit

Exemption per Florida Statute 440: If a Vendor/Contractor has less than three (3) employees and states that they are exempt per Florida Statute 440, they must provide an exemption certificate from the State of Florida. Otherwise, they will be required to purchase Workers' Compensation Insurance and provide a copy of Workers Compensation Insurance. https://www.myfloridacfo.com/Division/WC/Employer/Exemptions/

41.2.2. **GENERAL LIABILITY:** Comprehensive General Liability including, but not limited to, Independent Contractor, Contractual Premises/Operations, and Personal Injury covering the liability assumed under indemnification provisions of this Contract, with limits of liability for personal injury and/or bodily injury, including death.

COVERAGE AS FOLLOWS:

EACH OCCURRENCE.....	$1,000,000
GENERAL AGGREGATE.....	$2,000,000
PERSONAL/ADVERTISING INJURY.....	$1,000,000
PRODUCTS-COMPLETED OPERATIONS AGGREGATE	$2,000,000

Per Project Aggregate (if applicable)

ALSO, include in General Liability coverage for the following areas based on limits of policy, with minimum of:

FIRE DAMAGE (Any one (1) fire	$50,000
MEDICAL EXPENSE (Any one (1) person)	$5,000

41.2.3. **ADDITIONAL INSURED:** Vendor/Contractor agrees to endorse Hernando County as an additional insured on the Comprehensive General Liability. The Additional Insured shall read "Hernando County Board of County Commissioners." Proof of Endorsement is required.

41.2.4. **WAIVER OF SUBROGATION:** Vendor/Contractor agrees by entering into this Contract to a Waiver of Subrogation for each required policy herein. When required by the insurer, or should a policy condition not permit Vendor/Contractor to enter into an pre-loss Agreement to waive subrogation without an endorsement, then Vendor/Contractor aggress to notify the insurer and request the policy be endorsed with a Waiver of Transfer of Rights of Recovery Against Others, or its equivalent. This Waiver of Subrogation requirement shall not apply to any policy, which includes a condition specifically prohibiting such an endorsement, or voids coverage should Vendor/Contractor enter into such an Agreement on a pre-loss basis.

41.2.5. **AUTOMOBILE LIABILITY:** Comprehensive automobile and truck liability covering any auto, all owned autos, scheduled autos, hired autos, and non-owned autos. Coverage shall be on an "occurrence" basis. Such insurance to include coverage for loading and unloading hazards.
COVERAGE AS FOLLOWS:

COMBINED SINGLE LIMIT (CSL)	$1,000,000
BODILY INJURY (Per Person).....	$1,000,000
BODILY INJURY (Per Accident).....	$1,000,000
PROPERTY DAMAGE	$1,000,000

41.2.6. **[X] Not-Required __*JSW*_____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

PROFESSIONAL LIABILITY (if applicable): including Errors and Omissions with minimum limits of $3,000,000.00 per occurrence, if occurrence form is available; or claims made form with "tail coverage" extending three (3) years beyond completion and acceptance of the project with proof of "tail coverage" to be submitted with the invoice for final payment. In lieu of "tail coverage", consultant may submit annually to the County a current Certificate of Insurance proving claims made insurance remains in force throughout the same three (3) year period.

Notwithstanding the requirements for Professional Liability Insurance listed above, Engineer and/or Architect must provide evidence of coverage, a minimum of $1,000,000.00.

41.2.7. **[ ] Not-Required _____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

BUILDERS RISK INSURANCE (if applicable): Combined single limit must equal value of the construction, per project aggregate. The policy shall cover portions of the work in transit, property scaffolding, false work and temporary buildings located at the site. The policy must cover the cost of removing debris, including demolition as may be made legally necessary by the operation of any law, Ordinance or regulation. The insurance required herein must be on an all risk form and must be written to cover all risks of physical loss or damage to the insured party and must insure at least against the perils of fire and extended coverage, theft, vandalism, malicious mischief, collapse, lightning, earthquake, flood, water damage and windstorm. If there are any deductibles applicable to the insurance required herein, Vendor/Contractor must pay any part of any loss not covered because of the operation of such deductibles. The insurance as required herein must be maintained in effect until the earliest of the following date:

41.2.7.1. Date which all persons and organization that are insured under the policy agree in writing that it must be terminated;

41.2.7.2. Date on which final payment of this Contract has been made by County to Vendor/Contractor; or

41.2.7.3. Date on which the insurable interests in the property of all insured other the County have ceased.

41.2.7.4. Wind coverage to be included with a minimum deductible to be determined based on the project. Deductible will be a percentage based upon the total insured value.

41.2.8. **[X] Not-Required ___*JSW*_____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

CRIME PREVENTION – BOND (if applicable): Vendor/Contractor shall procure a fiduciary bond in the amount of $100,000 covering loss or theft by Vendor/Contractor, its Agents, or employees, and shall procure insurance in the amount of $10,000 covering loss or theft by non-employees such as by burglary or robbery for any funds or negotiable instruments under the custody or care of Vendor/Contractor that would insure to the benefit of the County.

41.2.9. **[X] Not-Required ____*JSW*____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

EXCESS/UMBRELLA LIABILITY (if applicable): Vendor/Contractor shall provide proof of Excess/Umbrella Liability coverage with minimum limits of $1,000,000. Limits can be increased, based on Contract.

41.2.10. **[X] Not-Required ___*JSW*_____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

WARRANTY BOND (if applicable)**:** When application is made for Final Payment, the Vendor/Contractor shall furnish a warranty (maintenance) bond payable to the order of Hernando County Board of County Commissioners per the Contract Documents and in the amount equal to the Bidder's grand total lump sum Bid Price including any selected alternates and/or additions or subtractions thereto.

41.2.11. **SUBCONTRACTORS (if applicable):** All Sub-Contractors hired by said Contractor are required to provide Hernando County Board of County Commissioners a Certificate of Insurance with the same limits required by the county as required by the Contract. All Sub-Contractors are required to name Hernando County Board of County Commissioners as additional insured and provide a Waiver of Subrogation in regards to General Liability.

41.2.12. **RIGHT TO REVISE OR REJECT:** County reserves the right, but not the obligation, to revise any insurance requirement, not limited to limits, coverages and endorsements, or to reject any insurance policies which fail to meet the criteria stated herein. Additionally, County reserves the right, but not the obligation, to review and reject any insurer providing coverage due of its poor financial condition or failure to operating legally.

41.2.13. **[X] Not-Required ___*JSW*_____(initials)**
PLEASE NOTE: If box is not checked and initialed by Chief Procurement Officer, the specified insurance below is required.

LONGSHOREMEN'S INSURANCE (if applicable)**:** Vendor/Contractor shall provide proof of Longshoremen's Insurance coverage with minimum limits of $1,000,000.00.

41.3. Each insurance policy shall include the following conditions by endorsement to the policy:

41.3.1. Vendor/Contractor agrees to provide County with a Certificate of Insurance evidencing that all coverages, limits and endorsements required herein are maintained and in full force and effect, and the Certificate of Insurance shall provide a minimum thirty (30) day endeavor to notify, when available by Vendor/Contractor's insurer. If the Vendor/Contractor receives a non-renewal or cancellation notice from an insurance carrier affording coverage required herein, or receives noticed that coverage no longer complies with the insurance requirements herein, Vendor/Contractor agrees to notify the County by fax within five (5) business days with a copy of the non-renewal or cancellation notice, or written specifics as to which coverage is no longer in compliance. The Certificate Holder shall read:

Hernando County Board of County Commissioners
ATTN: Human Resources/Risk Department
15470 Flight Path Dr., Brooksville, FL 34604

41.3.2. Companies issuing the insurance policy, or policies, shall have no recourse against the County for payment of premiums or assessments for any deductibles which all are the sole responsibility and risk of Vendor/Contractor.

41.3.3. The term "County" or "Hernando County" shall include all Authorities, Boards, Bureaus, commissions, Divisions, Departments, and offices of the County and individual members,

employees and agents thereof in their official capacities, and/or while acting on behalf of Hernando County.

41.3.4. The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by County, to any such future coverage, or to County's Self-Insured Retentions of whatever nature.

41.4. The Vendor/Contractor shall be required to provide a current Certificate of Insurance to the County prior to commencement of services.

41.5. Bidders may, at the County's request, be required to provide proof that their firm meets the preceding insurance requirements, by submission of a certificate of insurance coverage(s), prior to award of the Contract.

41.6. Failure of the Owner to demand such certificates or other evidence of full compliance with these insurance requirements or failure of the Owner to identify a deficiency from evidence provided shall not be construed as a waiver of Vendor/Contractor's obligation to maintain such insurance.

42. EXECUTION OF WRITTEN CONTRACT:

42.1. The successful Bidder will be required to sign a written Contract, in two (2) copies, which has been made a part of this Bid package and identified as the Construction Agreement in Section IX, Attachment 17. Said written Contract will evidence in written form the Agreement between the parties pursuant to the award having been therefore made by the County to this Bidder; said signing to be accomplished within ten (10) days after Notice of Award.

43. CONE OF SILENCE:

43.1. This Solicitation falls under the Hernando County Procurement Ordinance 93-16. After a Bid is opened or a short list is established for an Invitation to Bid, Request for Qualification, or Request for Proposal, a Vendor/Contractor or representative as defined in the Ordinance, may not seek information or clarification or in any way contact any Official or employee of the County concerning this Solicitation with the exception of the Chief Procurement Officer, County Attorney, or an individual specifically designated in this document for dissemination of information. A copy of any written communication concerning this Solicitation shall be filed with the Purchasing and Contracts Department and shall be made available to the public upon request. A violation of the "Cone of Silence" renders any award voidable at the discretion of the Chief Procurement Officer with approval from the Board of County Commissioners an may subject the potential Vendor/Contractor or representative to debarment. Nothing in the Ordinance prevents a Vendor/Contractor or representative from taking part in a public meeting concerning the Solicitation.

43.2. All Vendors/Contractors or representatives are hereby placed on formal notice. A lobbying "Cone of Silence" period shall commence upon issuance of the Solicitation until the Board selects the successful Bidder. For procurements that do not require Board approval, the "Cone of Silence" period commences upon Solicitation issuance and concludes upon Contract award.

43.3. Neither the members of the Board of County Commissioners nor candidates for County Commission, nor any employees from the Hernando County Government, Hernando County staff members, nor any members of the evaluation team are to be lobbied, either individually or collectively, concerning this project. Vendors/Contractors or representatives who intend to submit Bids, or have submitted Bids, for this project are hereby placed on formal notice that they are not to contact County personnel for such purposes as holding meetings of introduction, meals, or meetings relating to the selection process outside of those specifically scheduled by the County. Any such lobbying activities may cause immediate disqualification of this project.

SECTION IV - SPECIAL CONDITIONS

44. TIME OF COMPLETION:

44.1. Bidder agrees that the work will be substantially complete within Three Hundred (300) calendar days after the commencement date indicated in the Notice to Proceed and ready for final payment within Three Hundred Thirty (330) calendar days after the date indicated on the Notice to Proceed. The timeframe

between substantial and final is thirty (30) calendar days. Completion time includes material ordering lead times. Materials shall not be ordered by the Vendor/Contractor until the Notice to Proceed has been issued.

45. STARTING THE WORK:

45.1. Before undertaking each part of the work, the Vendor/Contractor shall:

45.1.1. Carefully study and compare the Contract Documents and check and verify pertinent figures shown thereon and all applicable field measurements. Vendor/Contractor shall promptly report in writing to the Project Manager any conflict, error or discrepancy which the Vendor/Contractor may discover and shall obtain a written interpretation or clarification from the Project Manager before proceeding with any work affected thereby; however, Vendor/Contractor shall not be liable to County for failure to report any conflict, error or discrepancy in the Contract Documents, unless Vendor/Contractor had actual knowledge, or should reasonably have known thereof.

45.1.2. Within ten (10) calendar days after the effective date of the Agreement (unless otherwise specified), Vendor/Contractor shall submit to the Engineer for review:

45.1.2.1. A preliminary Progress Schedule indicating the times (number of days or dates) for starting and completing the various stages of the work, including milestones specified in the Contract Documents;

45.1.2.2. A preliminary schedule of shop drawings and sample submittals which will list each required submittal and the times for submitting, reviewing, and processing such submittal; and

45.1.2.3. A preliminary Schedule of Values for all the work which will include quantities and prices of items aggregating the Contract Price and will subdivide the work into component parts in sufficient detail to serve as the basis for progress payments during construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of work.

45.2. The Vendor/Contractor will start the work **within ten (10) calendar day**s of the official "Notice to Proceed" date. The Contract Time shall commence to run from the date of the "Notice to Proceed."

46. LIQUIDATED DAMAGES:

46.1. Bidders hereby agree that time is of the essence and that a precise determination of actual damages which could be incurred by the County for delay in the completion of the work provided herein would be difficult to ascertain. Accordingly the parties agree that the liquidated damages for those items of damage not otherwise provided for by the Bid Documents, for each and every day that the time consumed in completing the work provided for herein exceeds the time allowed in achieving Substantial Completion and/or Final Completion therefore shall be in accordance with the amount(s) set forth in Section IX, Construction Agreement, Article 3, Paragraph 3.03, of the Contract Documents. The parties specifically agree that the liquidated damages provided herein do not constitute a penalty. The amount of liquidated damages occasioned by the Vendor/Contractor's delay will be deducted and retained out of the monies payable to the Vendor/Contractor. If not so deducted the Vendor/Contractor and sureties for the Vendor/Contractor shall be liable thereof.

47. INTERPRETATION AND INTENT OF THE CONTRACT DOCUMENTS:

47.1. It is the intent of the specifications and drawings to describe a complete project to be constructed in accordance with the Contract Documents. Any labor, documentation, services, materials, or equipment that may reasonably be inferred from the Contract Documents or from prevailing custom or trade usage as being required to produce the intended result will be provided whether or not specifically called for at no additional cost to Owner.

47.2. The Contract Documents are complementary; what is called for by one (1) is as binding as if called for by all.

47.3. Reference Standards:

47.3.1. Reference to standards, specifications, manuals, or codes of any technical society, organization, or association, or to laws or regulations, whether such reference be specific or by implication, shall mean the standard, specification, manual, code, or laws or regulations in effect at the time of opening of Bids (or on the Effective Date of the Agreement if there were no Bids), except as may be otherwise specifically stated in the Contract Documents.

47.3.2. No provision of any such standard, specification, manual or code, or any instruction of a supplier shall be effective to change the duties or responsibilities of Owner, Vendor/Contractor, or Engineer, or any of their Sub-Contractors, consultants, agents, or employees from those set forth in the Contract Documents. No such provision or instruction shall be effective to assign to Owner, or Engineer, or any of their related entities, any duty or authority to supervise or direct the performance of the work or any duty or authority to undertake responsibility inconsistent with the provisions of the Contract Documents.

47.4. If, during the performance of the work, the Vendor/Contractor discovers any conflict, error, ambiguity, or discrepancy within the Contract Documents or between the Contract Documents and any provision of any Law or Regulation applicable to the performance of the work or of any standard, specification, manual or code, or of any instruction of any supplier, Vendor/Contractor shall promptly report it to Engineer in writing. Vendor/Contractor shall not proceed with the work affected thereby until an amendment or supplement to the Contract Documents has been issued. The more stringent requirements shall apply unless otherwise approved.

47.5. The Vendor/Contractor shall take no advantage of any error or omission in the plans or of any discrepancy between the plans and specifications, and the Professional shall make such interpretation as may be deemed necessary for the fulfillment of the intent of the plans and specifications as construed by him and his decision shall be final.

47.6. Vendor/Contractor shall make reasonable efforts to identify potential changes which may enhance efficiency, reliability, serviceability or economy of operation, accelerate the construction schedule, reduce cost of construction, or otherwise enhance any benefits to Hernando County. The Vendor/Contractor, in its reasonable judgment, may propose in writing to Hernando County any such potential change, along with its proposed effect on the cost of the Work or the Installation Schedule. Hernando County shall consider any such proposed change in good faith and may, in its sole discretion, approve in writing any such change.

47.7. Reuse of Documents:

47.7.1. Vendor/Contractor and any Sub-Contractor or supplier shall not:

47.7.1.1. Have or acquire any title to or ownership rights in any of the drawings, specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of Engineer or Engineer's consultants, including electronic media editions; or

47.7.1.2. Reuse any of such drawings, specifications, other documents, or copies thereof on extensions of the Project or any other project without written consent of Owner and Engineer and specific written verification or adaptation by Engineer.

47.7.2. The prohibition of this Paragraph will survive final payment, or termination of the Contract. Nothing herein shall preclude Vendor/Contractor from retaining copies of the Contract Documents for record purposes.

47.8. Electronic Data:

47.8.1. Copies of data furnished by Owner or Engineer to Vendor/Contractor that may be relied upon are limited to the printed copies (also known as hard copies). Files in electronic media format of text, data, graphics, or other types are furnished only for the convenience of the receiving party. Any conclusion or information obtained or derived from such electronic files will be at the user's sole

risk. If there is a discrepancy between the electronic files and the hard copies, the hard copies govern.

47.8.2. Because data stored in electronic media format can deteriorate or be modified inadvertently or otherwise without authorization of the data's creator, the party receiving electronic files agrees that it will perform acceptance tests or procedures within sixty (60) days, after which the receiving party shall be deemed to have accepted the data thus transferred. Any errors detected within the sixty (60) day acceptance period will be corrected by the transferring party.

47.8.3. When transferring documents in electronic media format, the transferring party makes no representations as to long term compatibility, usability, or readability of documents resulting from the use of software application packages, operating systems, or computer hardware differing from those used by the data's creator.

48. COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA):

48.1. All construction practices, material, equipment, etc., as proposed and offered by Bidders must meet and conform to all O.S.H.A. requirements; the Bidder's signature upon the Bid Form in these Bid Documents, being by this reference considered a certification of such fact.

49. OWNER'S RESPONSIBILITIES AFTER AWARD:

49.1. Communications to Vendor/Contractor: Except as otherwise provided in these Contract Documents, Owner shall issue all communications to Vendor/Contractor through designated Authorized Owner Representative.

49.2. Furnish Data: Owner shall promptly furnish the data required of Owner under the Contract Documents.

49.3. Pay When Due: Owner shall make payments to Vendor/Contractor when they are due as provided in the Contract Documents.

49.4. Lands and Easements; Reports and Tests: Owner's duties in respect of providing lands and easements and providing engineering surveys to establish reference points are set forth in the Contract Documents. Owner shall identify and make available to Vendor/Contractor copies of reports of explorations and tests of subsurface conditions and drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site that have been utilized by the Engineer in preparing the Contract Documents.

49.5. Change Orders: Owner is obligated to execute Change Orders as indicated in the Contract Documents.

49.6. Inspections, Tests, and Approvals: Owner's responsibility in respect to certain inspections, tests, and approvals is set forth in the Contract Documents.

49.7. Limitations on Owner's Responsibilities: The Owner shall not supervise, direct, or have control or authority over, nor be responsible for, Vendor/Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Vendor/Contractor to comply with laws and regulations applicable to the performance of the work. Owner will not be responsible for Vendor/Contractor's failure to perform the work in accordance with the Contract Documents.

49.8. Undisclosed Hazardous Environmental Condition: Owner's responsibility in respect to an undisclosed Hazardous Environmental Condition is set forth in the Contract Documents.

49.9. Evidence of Financial Arrangements: If and to the extent Owner has agreed to furnish Vendor/Contractor reasonable evidence that financial arrangements have been made to satisfy Owner's obligations under the Contract Documents, Owner's responsibility in respect thereof will be as set forth in the Contract Documents.

50. OWNER DESIGNATED REPRESENTATIVE'S STATUS DURING CONSTRUCTION:

50.1. Owner's Representative: The duties and responsibilities and the limitations of authority of the Owner's representative during construction are set forth in the Contract Documents and will not be changed without written consent of Owner.

50.2. Visits to Site:

50.2.1. Owner's Designated Representative will make visits to the site at intervals appropriate to the various stages of construction as the Owner Designated Representative deems necessary in order to observe as an experienced and qualified design professional the progress that has been made and the quality of the various aspects of Vendor/Contractor's executed work. Based on information obtained during such visits and observations, the Owner Designated Representative will determine, in general, if the work is proceeding in accordance with the Contract Documents. The Owner Designated Representative will not be required to make exhaustive or continuous inspections on the site to check the quality or quantity of the work. Owner Designated Representative's efforts will be directed toward providing for Owner a greater degree of confidence that the completed work will conform generally to the Contract Documents. On the basis of such visits and observations, Owner Designated Representative will keep Owner informed of the progress of the work and will endeavor to guard Owner against defective work.

50.2.2. Owner Designated Representative's visits and observations are subject to all the limitations on Owner Designated Representative's authority and responsibility set forth in Paragraph 50.8. Particularly, but without limitation, during or as a result of Owner Designated Representative's visits or observations of Vendor/Contractor's work Owner Designated Representative will not supervise, direct, control, or have authority over or be responsible for Vendor/Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Vendor/Contractor to comply with laws and regulations applicable to the performance of the work.

50.3. Project Representative: If Owner and Owner Designated Representative agree, Owner Designated Representative will furnish a Resident Project Representative to assist Owner Designated Representative in providing more extensive observation of the work. The authority and responsibilities of any such Resident Project Representative and assistants is provided in Paragraph 50.8, and limitations on the responsibilities thereof are provided below. If Owner designates another representative or agent to represent Owner at the site who is not Engineer's consultant, agent or employee, the responsibilities and authority and limitations thereon of such other individual or entity will be as provided in the Contract Documents.

50.4. Authorized Variations in Work: Owner Designated Representative may authorize minor variations in the work from the requirements of the Contract Documents which do not involve an adjustment in the Contract Price or the Contract Times and are compatible with the design concept of the completed project as a functioning whole as indicated by the Contract Documents. These may be accomplished by a field order and will be binding on Owner and also on Vendor/Contractor, who shall perform the work involved promptly. If Owner or Vendor/Contractor believes that a field order justifies an adjustment in the Contract Price or Contract Times, or both, and the parties are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment, a claim may be made therefore as provided in Paragraph 55.5.

50.5. Rejecting Defective Work: Owner Designated Representative will have authority to reject work which Owner Designated Representative believes to be defective, or that Owner Designated Representative believes will not produce a completed project that conforms to the Contract Documents or that will prejudice the integrity of the design concept of the completed project as a functioning whole as indicated by the Contract Documents. Owner Designated Representative will also have authority to require special inspection or testing of the work as provided in Paragraph 58.3, whether or not the work is fabricated, installed, or completed.

50.6. Determinations for Unit Price Work: Owner Designated Representative will determine the actual quantities and classifications of Unit Price Work performed by Vendor/Contractor. Owner Designated Representative will review with Vendor/Contractor the Owner Designated Representative's preliminary determinations on such matters before rendering a written decision thereon (by recommendation of an Application for Payment

or otherwise). Owner Designated Representative's written decision thereon will be final and binding (except as modified by Owner Designated Representative to reflect changed factual conditions or more accurate data) upon Owner and Vendor/Contractor, subject to the provisions in Paragraph 56.3.

50.7. Decisions on Requirements of Contract Documents and Acceptability of Work:

50.7.1. Owner Designated Representative will be the initial interpreter of the requirements of the Contract Documents and judge of the acceptability of the work thereunder. All matters in question and other matters between Owner and Vendor/Contractor arising prior to the date final payment is due relating to the acceptability of the work, and the interpretation of the requirements of the Contract Documents pertaining to the performance of the work, will be referred initially to Owner Designated Representative in writing within thirty (30) days of the event giving rise to the question.

50.7.2. Owner Designated Representative will, with reasonable promptness, render a written decision on the issue referred and obtain Owner's approval to issue decision. If Owner or Vendor/Contractor believes that any such decision entitles them to an adjustment in the Contract Price or Contract Times or both, a claim may be made under the provision stated in Paragraph 55.5. The date of Owner Designated Representative's decision shall be the date of the event giving rise to the issues referenced in the Contract Documents.

50.7.3. Owner Designated Representative's written decision on the issue referred will be final and binding on Owner and Vendor/Contractor, subject to the provisions in Paragraph 50.8.

50.7.4. When functioning as interpreter and judge under Paragraph 50.7, Owner Designated Representative will not show partiality to Owner or Vendor/Contractor and will not be liable in connection with any interpretation or decision rendered in good faith in such capacity.

50.8. Limitations on Owner Designated Representative's Authority and Responsibilities:

50.8.1. Neither Owner Designated Representative's authority or responsibility under this Paragraph or under any other provision of the Contract Documents nor any decision made by Owner Designated Representative in good faith either to exercise or not exercise such authority or responsibility or the undertaking, exercise, or performance of any authority or responsibility by Owner Designated Representative shall create, impose, or give rise to any duty in Contract, tort, or otherwise owed by Owner Designated Representative to Vendor/Contractor, any Sub-Contractor, any supplier, any other individual or entity, or to any surety for or employee or agent of any of them.

50.8.2. Owner Designated Representative will not supervise, direct, control, or have authority over or be responsible for Vendor/Contractor's means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or for any failure of Vendor/Contractor to comply with laws and regulations applicable to the performance of the work. Owner Designated Representative will not be responsible for Vendor/Contractor's failure to perform the work in accordance with the Contract Documents.

50.8.3. Owner Designated Representative will not be responsible for the acts or omissions of Vendor/Contractor or of any Sub-Contractor, any supplier, or of any other individual or entity performing any of the work.

50.8.4. Owner Designated Representative's review of the Application for Payment and accompanying documentation and all maintenance and operating instructions, schedules, guarantees, bonds, certificates of inspection, tests and approvals, and other documentation required to be delivered by Paragraph 59.2.2 will only be to determine generally that their content complies with the requirements of, and in the case of certificates of inspections, tests, and approvals that the results certified indicate compliance with the Contract Documents.

50.8.5. The limitations upon authority and responsibility set forth in this Paragraph shall also apply to the Resident Project Representative, if any, and assistants, if any.

51. CONTRACTOR'S RESPONSIBILITIES:

51.1. Supervision and Superintendence:

51.1.1. The Vendor/Contractor will supervise and direct the work efficiently and with his best skill and attention. He will be solely responsible for the means, methods, techniques, sequences and procedure of construction, unless otherwise specified. The Vendor/Contractor will be responsible to see that the finished work complies accurately with the Contract Documents.

51.1.2. The Vendor/Contractor will keep on the site at all times during its progress a competent, resident superintendent who shall not be replaced without written notice to the Project Manager. The superintendent will be the Vendor/Contractor's representative at the site and shall have authority to act on behalf of the Vendor/Contractor. All communications given to the superintendent shall be as binding as if given to the Vendor/Contractor.

51.2. Labor, Materials and Equipment:

51.2.1. The Vendor/Contractor will provide competent, suitable, qualified personnel to lay out the work and perform construction as required by the Contract Documents. He will at all times maintain good discipline and order at the site.

51.2.2. Unless otherwise specified in the Contract Documents, Vendor/Contractor shall furnish all materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water and sanitary facilities and incidentals necessary for the execution, testing, initial operation and completion of the work.

51.2.3. All materials and equipment will be new except as otherwise provided in the Contract Documents. All special warranties and guarantees required by the specifications shall expressly run to the benefit of Owner. If required by the Owner, the Vendor/Contractor will furnish satisfactory evidence (including reports of required tests and/or purchase receipts) as to the source, kind and quality of materials and equipment furnished.

51.2.4. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instructions of the applicable manufacturer, supplier, fabricator or processors except as otherwise provided in the Contract Documents.

51.3. Progress Schedule:

51.3.1. Vendor/Contractor shall adhere to the Progress Schedule requirements established in the Contract Documents as it may be adjusted from time to time as provided below.

51.3.1.1. Vendor/Contractor shall submit to Owner Designated Representative for acceptance proposed adjustments in the Progress Schedule that will not result in changing the Contract Times. Such adjustments will comply with any provisions of the Contract Documents applicable thereto.

51.3.1.2. Proposed adjustments in the Progress Schedule that will change the Contract Times shall be submitted in accordance with the requirements stated in the Contract Documents. Adjustments in Contract Times may only be made by a Change Order.

51.3.1.3. All work of this Contract shall be scheduled and monitored by the Vendor/Contractor using the Critical Path Method (CPM). The Vendor/Contractor shall prepare the schedule for the project a minimum of two (2) weeks before starting any work and shall submit an updated schedule with each monthly pay request. The Vendor/Contractor will prepare revisions of the schedule to reflect changes in the Vendor/Contractor’s plan of performance or changes in the Work and submit these revisions to the Owner Designated Representative for acceptance.

51.3.1.4. The Vendor/Contractor shall prepare schedules as a time scale logic diagram and bar chart unless otherwise approved by the Owner Designated Representative. Each major and minor portion of work or operation shall be clearly identified and tied by logical sequence to the shop drawing schedule and schedule of values. All schedules shall be prepared and submitted on 11-inch-by-17-inch paper.

51.4. Concerning Sub-Contractors, Suppliers and Others:

51.4.1. The Vendor/Contractor will not employ any Sub-Contractor, supplier, other person or entity, whether initially or as a replacement, against whom the Owner may have reasonable objections, nor will the Vendor/Contractor be required to employ any Sub-Contractor, supplier, or other individual or entity, against whom the Vendor/Contractor has reasonable objection.

51.4.2. The Vendor/Contractor will not make any substitution for any Sub-Contractor who has been accepted by the Owner, unless the Owner determines that there is good cause for doing so.

51.4.3. The Vendor/Contractor will be fully responsible for all acts and omissions of his Sub-Contractors, suppliers, and other individuals or entities performing or furnishing any of the work just as Vendor/Contractor is responsible for Vendor/Contractor's own acts and omissions. Nothing contained in the Contract Documents:

51.4.3.1. Shall create for the benefit of any such Sub-Contractor, supplier, or other individual or entity any Contractual relationship between Owner or Owner Designated Representative and any such Sub-Contractor, supplier or other individual or entity, nor

51.4.3.2. Shall anything in the Contract Documents create any obligation on the part of Owner or Owner Designated Representative to pay or to see to the payment of any moneys due any such Sub-Contractor, supplier, or other individual or entity except as may otherwise be required by laws and regulations.

51.4.4. Vendor/Contractor shall be solely responsible for scheduling and coordinating the work of Sub-Contractors, suppliers, and other individuals or entities performing or furnishing any of the work under a direct or indirect Contract with Vendor/Contractor.

51.4.5. Vendor/Contractor shall require all Sub-Contractors, suppliers, and such other individuals or entities performing or furnishing any of the work to communicate with Owner Designated Representative through Vendor/Contractor.

51.4.6. The divisions and sections of the specifications and the identifications of any drawings shall not control Vendor/Contractor in dividing the work among Sub-Contractors or suppliers or delineating the work to be performed by any specific trade.

51.4.7. All work performed for Vendor/Contractor by a Sub-Contractor or supplier will be pursuant to an appropriate Agreement between Vendor/Contractor and the Sub-Contractor or supplier which specifically binds the Sub-Contractor or supplier to the applicable terms and conditions of the Contract Documents for the benefit of Owner and Owner Designated Representative. Whenever any such Agreement is with a Sub-Contractor or supplier who is listed as an additional insured on the property insurance as provided in the Contract Documents, the Agreement between the Vendor/Contractor and the Sub-Contractor or supplier will contain provisions whereby the Sub-Contractor or supplier waives all rights against Owner, Vendor/Contractor, and Owner Designated Representative, and all other individuals or entities identified in the Contract Documents to be listed as insureds or additional insureds (and the officers, directors, partners, employees, agents, consultants and Sub-Contractors of each and any of them) for all losses and damages caused by, arising out of, relating to, or resulting from any of the perils or causes of loss covered by such policies and any other property insurance applicable to the work. If the insurers on any such policies require separate waiver forms to be signed by any Sub-Contractor or supplier, Vendor/Contractor will obtain the same.

51.4.8. The Vendor/Contractor agrees to bind specifically every Sub-Contractor to the applicable terms and conditions of the Contract Documents for the benefit of the Owner.

51.4.9. The Vendor/Contractor shall not award work valued at more than fifty (50%) percent of the Contract Price to Sub-Contractor(s), without prior written approval of the Owner.

51.5. Patent Fees And Royalties:

51.5.1. Vendor/Contractor shall pay all license fees and royalties and assume all costs incident to the use in the performance of the work or the incorporation in the work of any invention, design, process, product, or device which is the subject of patent rights or copyrights held by others. If a particular invention, design, process, product, or device is specified in the Contract Documents for use in the performance of the work and if to the actual knowledge of Owner or Owner Designated Representative its use is subject to patent rights or copyrights calling for the payment of any license fee or royalty to others, the existence of such rights shall be disclosed by Owner in the Contract Documents.

51.5.2. To the fullest extent permitted by laws and regulations, Vendor/Contractor shall indemnify and hold harmless Owner and Owner Designated Representative, and the officers, directors, partners, employees, agents, consultants and Sub-Contractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any infringement of patent rights or copyrights incident to the use in the performance of the work or resulting from the incorporation in the work of any invention, design, process, product, or device not specified in the Contract Documents.

51.6. Use Of Premises:

51.6.1. The Vendor/Contractor will confine his equipment, the storage of materials and equipment, and the operations of his workers to the areas permitted by law, ordinances, permits or the requirements of the Contract Documents and shall not unreasonably encumber the premises with materials or equipment.

51.6.2. The Vendor/Contractor shall confine the operation of workmen and equipment, and the storage of materials and equipment to the County's property or to other non-County property or in public right-of-way areas indicated on the Contract Drawings as including work to be done pursuant to the Contract documents. In the event the Vendor/Contractor desires to have access to the project site, or perform work or operations pertaining to the Contract on, over or from non-County property adjacent to the project site, the Vendor/Contractor shall obtain written authorization to do so from the respective adjacent property owner(s) prior to using such property. Such written authorization shall include a provision whereby the property owner agrees to hold the County harmless, and to defend the County, in the event of any liability, loss, injury, or claim incurred as a result of the Vendor/Contractors work or operations involving the use of the adjacent non-County property. The County shall be provided with a notarized, certified copy of such written authorization(s) before the Vendor/Contractor commences work or operations or use of such property in connection with work or operations pursuant to this Contract.

51.7. Record Documents:

51.7.1. Vendor/Contractor shall maintain in a safe place at the site one (1) record copy of all drawings, specifications, addenda, change orders, field orders, and written interpretations and clarifications in good order and annotated to show changes made during construction. These record documents together with all approved samples and a counterpart of all approved shop drawings will be available to Engineer for reference. Upon completion of the work, these record documents, samples, and shop drawings will be delivered to Engineer for Owner.

51.7.2. Record Drawings: The Engineer will prepare a set of record drawings for the project which will include the changes made in materials, equipment, locations, and dimensions of the work. Each month or as otherwise agreed, the Vendor/Contractor shall submit to the Engineer a current listing

and description (written and graphic) of each change incorporated into the work since the preceding submittal.

51.8. Safety And Protection:

51.8.1. Vendor/Contractor shall be solely responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the work. Vendor/Contractor shall take all necessary precautions for the safety of, and shall provide the necessary protection to prevent damage, injury or loss to:

51.8.1.1. All employees on the site and other persons who may be affected by the work:

51.8.1.2. All the work and materials and equipment to be incorporated therein, whether in storage on or off the site; and

51.8.1.3. Other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and Underground Facilities not designated for removal, relocation or replacement in the course of construction.

51.8.2. Vendor/Contractor shall comply with all applicable laws and regulations relating to the safety of persons or property, or to the protection of persons or property from damage, injury, or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Vendor/Contractor shall notify owners of adjacent property and of Underground Facilities and other utility owners when prosecution of the work may affect them, and shall cooperate with them in the protection, removal, relocation, and replacement of their property.

51.8.3. All damage, injury, or loss to any property referred to above; caused directly or indirectly, in whole or in part, by Vendor/Contractor, any Sub-Contractor, supplier, or any other individual or entity directly or indirectly employed by any of them to perform any of the work, or anyone for whose acts any of them may be liable, shall be remedied by Vendor/Contractor (except damage or loss attributable to the fault of drawings or specifications or to the acts or omissions of Owner or Engineer, or anyone employed by any of them, or anyone for whose acts any of them may be liable, and not attributable, directly or indirectly, in whole or in part, to the fault or negligence of Vendor/Contractor or any Sub-Contractor, supplier, or other individual or entity directly or indirectly employed by any of them).

51.8.4. Vendor/Contractor's duties and responsibilities for safety and for protection of the work shall continue until such time as all the work is completed and Engineer has issued final acceptance.

51.8.5. Vendor/Contractor shall designate a qualified and experienced safety representative at the site whose duties and responsibilities shall be the prevention of accidents and the maintaining and supervising of safety precautions and programs.

51.9. Emergencies: In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, Vendor/Contractor is obligated to act to prevent threatened damage, injury, or loss. Vendor/Contractor shall give Owner Designated Representative prompt written notice if Vendor/Contractor believes that any significant changes in the work or variations from the Contract Documents have been caused thereby or are required as a result thereof. If Owner Designated Representative determines that a change in the Contract Documents is required because of the action taken by Vendor/Contractor in response to such an emergency, a Change Order will be issued.

51.10. Shop Drawings, Samples and Test Specimens, Additional and Special Submittals:

51.10.1. Vendor/Contractor shall submit all shop drawings, samples and test specimens, additional and special submittals to Owner Designated Representative for review and approval in accordance with the acceptable Schedule of Submittals. The Vendor/Contractor's attention is directed to the individual specification sections in these Contract Documents which may contain additional and special submittal requirements.

51.10.1.1. Shop Drawings:

51.10.1.1.1. Submit number of copies specified in the specifications.

51.10.1.1.2. Data shown on the shop drawings will be complete with respect to quantities, dimensions, specified performance and design criteria, materials, and similar data to show Owner Designated Representative the services, materials, and equipment Vendor/Contractor proposes to provide and to enable Owner Designated Representative to review the information for the limited purposes of establishing a reporting procedure and is intended for the Vendor/Contractor's convenience in organizing his work and to permit the Owner Designated Representative to monitor the Vendor/Contractor's progress and understanding of the design.

51.10.1.1.3. Should the Vendor/Contractor propose any item on his field drawings, or incorporate an item into the work, and that item should subsequently prove to be defective or otherwise unsatisfactory, (regardless of the Owner Designated Representative 's preliminary review), the Vendor/Contractor shall, at his own expense, replace the item with another item that will perform satisfactorily.

51.10.1.1.4. The Vendor/Contractor agrees that shop drawing submittals processed by the Owner Designated Representative do not become Contract Documents and are not Change Orders.

51.10.1.2. Samples and Test Specimens:

51.10.1.2.1. Submit number of samples and/or test specimens as required in the specifications. Where required in the specifications, and as determined necessary by the Owner Designated Representative, test specimens or samples of materials, appliances, and fittings to be used or offered for use in connection with the work shall be submitted to the Owner Designated Representative at the Vendor/Contractor's expense, with all cartage charges prepaid, and in such quantities and sizes as may be required for proper examination and tests to establish the quality or equality thereof, as applicable.

51.10.1.2.2. Clearly identify each as to material, supplier, pertinent data such as catalog numbers, the use for which intended and other data as Owner Designated Representative may require enabling Owner Designated Representative to review the submittal for the limited purposes of establishing a reporting procedure and is intended for the Vendor/Contractor's convenience in organizing his work and to permit the Owner Designated Representative to monitor the Vendor/Contractor's progress and understanding of the design.

51.10.1.2.3. All samples and test specimens shall be submitted in ample time to enable the Owner Designated Representative to make any examinations necessary, without delay to the work. The Vendor/Contractor will be held responsible for any loss of time due to his neglect or failure to deliver the required samples to the Owner Designated Representative, as specified.

51.10.1.2.4. The Vendor/Contractor shall submit additional samples as required by the Owner Designated Representative to ensure equality with the original approved sample and/or for determination of specification compliance.

51.10.1.2.5. Laboratory tests and examinations that the Owner elects to have made by an independent testing laboratory will be made at no cost to the Vendor/Contractor, except that, if a sample of any material or equipment proposed for use by the Vendor/Contractor fails to meet the specifications, the cost of testing subsequent samples shall be borne by the Vendor/Contractor.

51.10.1.2.6. All tests required by the specifications to be performed by an independent laboratory shall be made by a Owner approved laboratory. Certified test results of all specified tests shall be submitted in duplicate to the Owner Designated Representative. The samples furnished and the cost for the laboratory services shall be at the expense of the Vendor/Contractor and included in the prices Bid for the associated work.

51.10.1.2.7. Sample items (fixtures, hardware, etc.) may be incorporated into the work upon approval, and when no longer needed by the Owner Designated Representative for reference.

51.10.1.3. Submittals:

51.10.1.3.1. All technical submittals shall be fully sufficient in detail for determination of compliance with the Contract Documents.

51.10.1.3.2. Review or acceptance of substitutions, schedules, shop drawings, lists of materials, and procedures submitted or requested by the Vendor/Contractor shall not add to the Contract amount, and all additional costs which may result therefrom shall be solely the obligation of the Vendor/Contractor.

51.10.1.3.3. The Owner is not precluded, by virtue of review, acceptance, or approval, from obtaining a credit for construction savings resulting from allowed concessions in the work or materials therefore.

51.10.1.3.4. No equipment or material for which listings, drawings, or descriptive material is required shall be fabricated, purchased, or installed until the Owner Designated Representative has reviewed same and returned copies with stamp and signature indicating action taken.

51.10.2. Where shop drawings, samples, additional technical or special submittals are required by the Contract Documents or the Schedule of Submittals, any related work performed prior to Owner Designated Representative's review and approval of the pertinent submittal will be at the sole expense and responsibility of Vendor/Contractor.

51.10.3. Submittal Procedures:

51.10.3.1. Submittals shall be addressed to the Owner Designated Representative as defined in these construction documents. Before submitting each shop drawing, sample, test specimens or other technical submittal, Vendor/Contractor shall have determined and verified:

51.10.3.1.1. All field measurements, quantities, dimensions, specified performance and design criteria, installation requirements, materials, catalog numbers, and similar information with respect thereto;

51.10.3.1.2. The suitability of all materials with respect to intended use, fabrication, shipping, handling, storage, assembly, and installation pertaining to the performance of the work;

51.10.3.1.3. All information relative to Vendor/Contractor's responsibilities for means, methods, techniques, sequences, and procedures of construction, and safety precautions and programs incident thereto; and

51.10.3.1.4. Shall also have reviewed and coordinated each shop drawing or sample with other shop drawings and samples and with the requirements of the work and the Contract Documents.

51.10.3.2. Each submittal shall bear a stamp or specific written certification that Vendor/Contractor has satisfied Vendor/Contractor's obligations under the Contract Documents with respect to Vendor/Contractor's review and approval of that submittal. The practice of submitting incomplete or unchecked shop drawings for the Owner Designated Representative to correct or finish will not be acceptable. shop drawings which, in the opinion of the Owner Designated Representative, clearly indicate that they have not been checked by the Vendor/Contractor will be considered as not complying with the intent of the Contract Documents and will be returned to the Vendor/Contractor for resubmission in the proper form.

51.10.3.3. With each submittal, Vendor/Contractor shall give Owner Designated Representative specific written notice of any variations, that the shop drawing or sample may have from the requirements of the Contract Documents. This notice shall be both a written communication separate from the shop drawings or sample submittal; and, in addition, by a specific notation made on each shop drawing or sample submitted to Owner Designated Representative for review and approval of each such variation.

51.10.3.4. The Vendor/Contractor shall submit to the Owner Designated Representative for his review five (5) copies of shop drawings, electrical diagrams, performance data and pump curves, wiring and control diagrams, special features, interface schematic diagrams, catalog information and cuts for fabricated items and manufactured items including structural, mechanical, electrical, plumbing, process, instrumentation and control systems and equipment furnished under this Contract. Shop drawings shall be submitted in sufficient time to allow the Owner Designated Representative not less than twenty (20) regular working days for examining the drawings.

51.10.4. Owner Designated Representative's Review:

51.10.4.1. Owner Designated Representative will provide timely review of shop drawings and samples in accordance with the Schedule of Submittals acceptable to Owner Designated Representative. Owner Designated Representative's review and approval will be only to determine if the items covered by the submittals will, after installation or incorporation in the work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed project as a functioning whole as indicated by the Contract Documents.

51.10.4.2. Owner Designated Representative's review and approval will not extend to means, methods, techniques, sequences, or procedures of construction (except where a particular means, method, technique, sequence, or procedure of construction is specifically and expressly called for by the Contract Documents) or to safety precautions or programs incident thereto. The review and approval of a separate item as such will not indicate approval of the assembly in which the item functions.

51.10.4.3. Owner Designated Representative's review and approval shall not relieve Vendor/Contractor from responsibility for any variation from the requirements of the Contract Documents unless Vendor/Contractor has complied with the requirements and Owner Designated Representative has given written approval of each such variation by specific written notation thereof incorporated in or accompanying the

shop drawing or sample. Owner Designated Representative's review and approval shall not relieve Vendor/Contractor from responsibility for complying with the requirements stated above.

51.10.5. Re-submittal Procedures:

51.10.5.1. Vendor/Contractor shall make corrections required by Owner Designated Representative and shall return the required number of corrected copies of shop drawings and submit, as required, new samples for review and approval. Vendor/Contractor shall direct specific attention in writing to revisions other than the corrections called for by Owner Designated Representative on previous submittals. Costs incurred by Owner Designated Representative, and/or Owner, related to review and approval of additional submittals beyond that associated with the original submittal and one (1) re-submittal will be the responsibility of the Vendor/Contractor.

51.10.6. Certificates of Compliance:

51.10.6.1. A Certificate of Compliance shall be furnished for materials specified to a recognized standard or code prior to the use of any such materials in the work. The Owner Designated Representative may permit the use of certain materials or assemblies prior to sampling and testing if accompanied by a Certificate of Compliance. The certificate shall be signed by the manufacturer of the material or the manufacturer of assembled materials and shall state that the materials involved comply in all respects with the requirement of the specifications. A Certificate of Compliance shall be furnished with each lot of material delivered to the work and the lot so certified shall be clearly identified in the certificate.

51.10.6.2. All materials used on the basis of a Certificate of Compliance may be sampled and tested at any time. The fact that material is used on the basis of a Certificate of Compliance shall not relieve the Vendor/Contractor of responsibility for incorporating material in the work which conforms to the requirements of the Contract Documents and any such material not conforming to such requirements will be subject to rejection whether in place or not.

51.10.6.3. The Owner Designated Representative reserves the right to refuse permission for use of material on the basis of a Certificate of Compliance.

51.10.6.4. The form of the Certificate of Compliance and its disposition shall be as directed by the Owner Designated Representative.

51.11. Continuing the Work: Vendor/Contractor shall carry on the work and adhere to the Progress Schedule during all disputes or disagreements with Owner. No work shall be delayed or postponed pending resolution of any disputes or disagreements, except as permitted in Paragraph 57.3 or as Owner and Vendor/Contractor may otherwise agree in writing.

51.12. Use of Site and Other Areas:

51.12.1. Limitation on Use of Site and Other Areas:

51.12.1.1. Vendor/Contractor shall confine construction equipment, the storage of materials and equipment, and the operations of workers to the site and other areas permitted by laws and regulations, and shall not unreasonably encumber the site and other areas with construction equipment or other materials or equipment. Vendor/Contractor shall assume full responsibility for any damage to any such land or area, or to the owner or occupant thereof, or of any adjacent land or areas resulting from the performance of the work.

51.12.1.2. Should any claim be made by any such owner or occupant because of the performance of the work, Vendor/Contractor shall promptly settle with such other party by negotiation or otherwise resolve the claim by **arbitration** or other dispute resolution proceeding or at law.

51.12.1.3. To the fullest extent permitted by laws and regulations, Vendor/Contractor shall indemnify and hold harmless Owner and Owner Designated Representative, and the officers, directors, partners, employees, agents, consultants and Sub-Contractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to any claim or action, legal or equitable, brought by any such owner or occupant against Owner, Owner Designated Representative, or any other party indemnified hereunder to the extent caused by or based upon Vendor/Contractor's performance of the work.

51.12.2. Removal of Debris During Performance of the Work: During the progress of the work Vendor/Contractor shall keep the site and other areas free from accumulations of waste materials, rubbish, and other debris. Removal and disposal of such waste materials, rubbish, and other debris shall conform to applicable laws and regulations.

51.12.3. Clean Up: The Vendor/Contractor will keep the premises free from accumulations of waste materials, rubbish and other debris resulting from the work; at the completion of the work he will remove all waste materials, rubbish and debris from and about the premises as well as all tools, construction equipment and machinery, and surplus materials, and will leave the site clean and ready for occupancy by the County. The Vendor/Contractor will restore to their original condition those portions of the site not designated for alteration by the Contract Documents. If at any time during construction of this project, the Vendor/Contractor fails to clean up on a daily basis, the County may do so. All costs associated with the County's cleanup activities on behalf of the Vendor/Contractor shall be deducted from amounts due to the Vendor/Contractor. Prior to substantial completion of the work, Vendor/Contractor shall clean the site and the work and make it ready for utilization by Owner. At the completion of the work Vendor/Contractor shall remove from the site all tools, appliances, construction equipment and machinery, and surplus materials and shall restore to original condition all property not designated for alteration by the Contract Documents.

51.12.4. Loading Structures: Vendor/Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Vendor/Contractor subject any part of the work or adjacent property to stresses or pressures that will endanger it.

51.13. Vendor/Contractor's General Warranty and Guarantee:

51.13.1. Vendor/Contractor warrants and guarantees to Owner that all work will be in accordance with the Contract Documents and will not be defective. Owner Designated Representative and its related entities shall be entitled to rely on representation of Vendor/Contractor's warranty and guarantee. All unsatisfactory work, all faulty work, and all work not conforming to the requirements of the Contract Documents or any inspections, test or approvals shall be considered defective. All defective work, whether or not in place, may be rejected, corrected or accepted as provided in the Bid specification.

51.13.2. Vendor/Contractor's warranty and guarantee hereunder excludes defects or damage caused by:

51.13.2.1. Abuse, modification, or improper maintenance or operation by persons other than Vendor/Contractor, Sub-Contractors, suppliers, or any other individual or entity for whom Vendor/Contractor is responsible; or

51.13.2.2. Normal wear and tear under normal usage.

51.13.3. Vendor/Contractor's obligation to perform and complete the work in accordance with the Contract Documents shall be absolute. None of the following will constitute an acceptance of work that is not in accordance with the Contract Documents or a release of Vendor/Contractor's obligation to perform the work in accordance with the Contract Documents:

51.13.3.1. Observations by Owner Designated Representative;

51.13.3.2. Recommendation by Owner Designated Representative or payment by Owner of any progress or final payment;

51.13.3.3. The issuance of a certificate of Substantial Completion by Owner Designated Representative or any payment related thereto by Owner;

51.13.3.4. Use or occupancy of the work or any part thereof by Owner;

51.13.3.5. Any review and approval of a shop drawing or sample submittal or the issuance of a notice of acceptability by Owner Designated Representative;

51.13.3.6. Any inspection, test, or approval by others; or

51.13.3.7. Any correction of defective work by Owner.

51.13.4. The Vendor/Contractor shall provide and maintain in a neat and sanitary condition, such accommodations for the use of his employees as may be necessary to comply with the requirements of the State Board of Health or of the Owner Designated Representative.

51.13.5. The Vendor/Contractor shall be responsible for installing, operating and maintaining all traffic control associated with the project, including detours, advance warnings, channelization or other features, both at the immediate work site and at any outlying points determined by the Owner to be necessary to satisfy project requirements and to maintain safe operations at the landfill. If traffic control is necessary, the Vendor/Contractor shall prepare a detailed traffic control plan. This plan shall be approved in writing by the Owner prior to implementation by the Vendor/Contractor.

51.14. Delegation of Professional Design Services:

51.14.1. Vendor/Contractor will not be required to provide professional design services unless such services are specifically required by the Contract Documents for a portion of the work or unless such services are required to carry out Vendor/Contractor's responsibilities for construction means, methods, techniques, sequences and procedures. Vendor/Contractor shall not be required to provide professional services in violation of applicable law.

51.14.2. If professional design services or certifications by a design professional related to systems, materials or equipment are specifically required of Vendor/Contractor by the Contract Documents, Owner and Owner Designated Representative will specify all performance and design criteria that such services must satisfy. Vendor/Contractor shall cause such services or certifications to be provided by a properly licensed professional, whose signature and seal shall appear on all drawings, calculations, specifications, certifications, shop drawings and other submittals prepared by such professional. Shop drawings and other submittals related to the work designed or certified by such professional, if prepared by others, shall bear such professional's written approval when submitted to Owner Designated Representative.

51.14.3. Owner and Owner Designated Representative shall be entitled to rely upon the adequacy, accuracy and completeness of the services, certifications or approvals performed by such design professionals, provided Owner and Owner Designated Representative have specified to Vendor/Contractor all performance and design criteria that such services must satisfy.

51.14.4. Owner Designated Representative's review and approval of design calculations and design drawings will be only for the limited purpose of checking for conformance with performance and design criteria given and the design concept expressed in the Contract Documents. Owner Designated Representative's review and approval of shop drawings and other submittals (except design calculations and design drawings) will be only for the purpose of determining if the items covered by the submittals will, after installation or incorporation in the work, conform to the information given in the Contract Documents and be compatible with the design concept of the completed project as a functioning whole as indicated by the Contract Documents.

51.14.5. Vendor/Contractor shall not be responsible for the adequacy of the performance or design criteria required by the Contract Documents.

52. AVAILABILITY OF LANDS; SUBSURFACE AND PHYSICAL CONDITIONS; HAZARDOUS ENVIRONMENTAL CONDITIONS; REFERENCE POINTS:

52.1. Availability of Lands:

52.1.1. Owner shall furnish the site. Owner shall notify Vendor/Contractor of any encumbrances or restrictions not of general application but specifically related to use of the site with which Vendor/Contractor must comply in performing the work. Owner will obtain in a timely manner and pay for easements for permanent structures or permanent changes in existing facilities. If Vendor/Contractor and Owner are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, as a result of any delay in Owner's furnishing the site or a part thereof, Vendor/Contractor may make a claim therefore as provided in the Contract Documents.

52.1.2. Upon reasonable written request, Owner shall furnish Vendor/Contractor with a current statement of record legal title and legal description of the lands upon which the work is to be performed and Owner's interest therein as necessary for giving notice of or filing a mechanic's or construction lien against such lands in accordance with applicable laws and regulations.

52.1.3. Vendor/Contractor shall provide for all additional lands and access thereto that may be required for temporary construction facilities or storage of materials and equipment.

52.2. Subsurface and Physical Conditions:

52.2.1. Reports and Drawings:

52.2.1.1. Those reports of explorations and tests of subsurface conditions at or contiguous to the site that Owner Designated Representative has used in preparing the Contract Documents; and

52.2.1.2. Those drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the site (except Underground Facilities) that Engineer has used in preparing the Contract Documents will be included in the Contract Documents as Attachments under Section X, General Requirements and Technical Specifications.

52.2.2. Limited reliance by Vendor/Contractor on technical data authorized: Vendor/Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Contract Documents. Except for such reliance on such "technical data," Vendor/Contractor may not rely upon or make any claim against Owner or Engineer, or any of their related entities with respect to:

52.2.2.1. The completeness of such reports and drawings for Vendor/Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques,

sequences, and procedures of construction to be employed by Vendor/Contractor, and safety precautions and programs incident thereto; or

52.2.2.2. Other data, interpretations, opinions, and information contained in such reports or shown or indicated in such drawings; or

52.2.2.3. Any Vendor/Contractor interpretation of or conclusion drawn from any "technical data" or any such other data, interpretations, opinions, or information.

52.3. Differing Subsurface or Physical Conditions:

52.3.1. Notice: If Vendor/Contractor believes that any subsurface or physical condition at or contiguous to the site that is uncovered or revealed either:

52.3.1.1. Is of such a nature as to establish that any "technical data" on which Vendor/Contractor is entitled to rely as provided in Paragraph 52.4 is materially inaccurate; or

52.3.1.2. Is of such a nature as to require a change in the Contract Documents; or

52.3.1.3. Differs materially from that shown or indicated in the Contract Documents; or

52.3.1.4. Is of an unusual nature, and differs materially from conditions ordinarily encountered and generally recognized as inherent in work of the character provided for in the Contract Documents; then Vendor/Contractor shall, promptly after becoming aware thereof and before further disturbing the subsurface or physical conditions or performing any work in connection therewith, notify Owner and Owner Designated Representative in writing about such condition. Vendor/Contractor shall not further disturb such condition or perform any work in connection therewith until receipt of written order to do so.

52.3.2. Owner Designated Representative's Review: After receipt of written notice, Owner Designated Representative will promptly review the pertinent condition, determine the necessity of Owner's obtaining additional exploration or tests with respect thereto, and advise Owner in writing (with a copy to Vendor/Contractor) of Owner Designated Representative's findings and conclusions.

52.3.3. Possible Price and Times Adjustments:

52.3.3.1. The Contract Price or the Contract Times, or both, will be equitably adjusted to the extent that the existence of such differing subsurface or physical condition causes an increase or decrease in Vendor/Contractor's cost of, or time required for, performance of the work; subject, however, to the following:

52.3.3.1.1. Such condition must meet any one (1) or more of the categories described in Paragraph 57.3; and

52.3.3.1.2. With respect to work that is paid for on a Unit Price Basis, any adjustment in Contract Price will be subject to the provisions of stated in the Contract Documents.

52.3.3.2. Vendor/Contractor shall not be entitled to any adjustment in the Contract Price or Contract Times if:

52.3.3.2.1. Vendor/Contractor knew of the existence of such conditions at the time Vendor/Contractor made a final commitment to Owner with respect to Contract Price and Contract Times by the submission of a Bid or becoming bound under a negotiated Contract; or

52.3.3.2.2. The existence of such condition could reasonably have been discovered or revealed as a result of any examination, investigation, exploration,

test, or study of the site and contiguous areas required by the Bidding Requirements or Contract Documents to be conducted by or for Vendor/Contractor prior to Vendor/Contractor's making such final commitment; or

52.3.3.2.3. Vendor/Contractor failed to give the written notice as required by provisions above.

52.3.3.3. If Owner and Vendor/Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times, or both, a claim may be made therefore as provided in Contract Documents. However, Owner and Owner Designated Representative, and any of their related entities shall not be liable to Vendor/Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Vendor/Contractor on or in connection with any other project or anticipated project.

52.4. Underground Facilities:

52.4.1. Shown or Indicated: The information and data shown or indicated in the Contract Documents with respect to existing Underground Facilities at or contiguous to the site is based on information and data furnished to Owner or Engineer by the owners of such Underground Facilities, including Owner, or by others. Unless it is otherwise expressly provided in the Bid Documents:

52.4.1.1. Owner and Engineer shall not be responsible for the accuracy or completeness of any such information or data; and

52.4.1.2. The cost of all of the following will be included in the Contract Price, and Vendor/Contractor shall have full responsibility for:

52.4.1.2.1. Reviewing and checking all such information and data,

52.4.1.2.2. Locating all Underground Facilities shown or indicated in the Contract Documents,

52.4.1.2.3. Coordination of the work with the owners of such Underground Facilities, including Owner, during construction, and

52.4.1.2.4. The safety and protection of all such Underground Facilities and repairing any damage thereto resulting from the work.

52.4.1.3. The Vendor/Contractor shall locate all existing utilities, vertical and horizontal, prior to commencement of construction and any excavation.

52.4.2. Not Shown or Indicated:

52.4.2.1. If an Underground Facility is uncovered or revealed at or contiguous to the site which was not shown or indicated, or not shown or indicated with reasonable accuracy in the Contract Documents, Vendor/Contractor shall, promptly after becoming aware thereof and before further disturbing conditions affected thereby or performing any work in connection therewith, identify the owner of such Underground Facility and give written notice to that owner and to Owner and Engineer. Engineer will promptly review the Underground Facility and determine the extent, if any, to which a change is required in the Contract Documents to reflect and document the consequences of the existence or location of the Underground Facility. During such time, Vendor/Contractor shall be responsible for the safety and protection of such Underground Facility.

52.4.2.2. If Engineer concludes that a change in the Contract Documents is required, a Change Order will be issued to reflect and document such consequences. An equitable

adjustment shall be made in the Contract Price or Contract Times, or both, to the extent that they are attributable to the existence or location of any Underground Facility that was not shown or indicated or not shown or indicated with reasonable accuracy in the Contract Documents and that Vendor/Contractor did not know of and could not reasonably have been expected to be aware of or to have anticipated. If Owner and Vendor/Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any such adjustment in Contract Price or Contract Times, Owner or Vendor/Contractor may make a claim therefore as provided in the Contract Documents.

52.4.3. Obstructions:

52.4.3.1. Any pipes, conduits, wires, mains, footings, driveways, or other structures encountered shall be carefully protected from injury or displacement. Any damage thereto shall be fully, promptly, and properly repaired by the Vendor/Contractor to the satisfaction of the Owner Designated Representative and the Owner thereof. Should it become necessary to change the position of water or gas or other pipes, sewer drains, or poles, the Engineer shall be at once notified of the locality and circumstances, and no claims for damages arising from the delay in adjusting the pipe, sewer drains or poles shall be made. Failure of the plans to show the locations, nature or extent of any existing structures or obstructions shall not be the basis of a claim for extra work. Any survey monument or bench mark which must be disturbed shall be carefully referenced before removal, and unless otherwise provided for, shall be replaced upon completion of the work by a registered land surveyor. Any survey monuments or bench markers which are disturbed shall be replaced by a Florida registered land surveyor.

52.5. Reference Points:

52.5.1. Owner shall provide engineering surveys to establish reference points for construction which in Owner Designated Representative's judgment are necessary to enable Vendor/Contractor to proceed with the work. Vendor/Contractor shall be responsible for laying out the work, shall protect and preserve the established reference points and property monuments, and shall make no changes or relocations without the prior written approval of Owner. Vendor/Contractor shall report to Owner Designated Representative whenever any reference point or property monument is lost or destroyed or requires relocation because of necessary changes in grades or locations, and shall be responsible for the accurate replacement or relocation of such reference points or property monuments by professionally qualified personnel.

52.5.2. Vendor/Contractor will furnish all surveys and construction stakeouts unless otherwise specified. The Vendor/Contractor will provide horizontal control and bench marks or elevations for vertical control. The number and extent of such control will be designated to the Vendor/Contractor by the Owner Designated Representative prior to Bid opening, upon request. It shall be the responsibility of the Vendor/Contractor to check all stakes as set by the Engineer for possible error. The Vendor/Contractor shall furnish, free of charge, all additional stakes, all templates, and other materials necessary for marking and maintaining points and lines given. The Vendor/Contractor shall be held responsible for the preservation of all stakes and marks, and if any of the stakes or marks are destroyed or disturbed, the cost of replacing them shall be charged against, and shall be deducted from the payment for the work. The Vendor/Contractor shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

52.5.3. The Vendor/Contractor shall provide reasonable and necessary opportunities and facilities for setting points and making measurements. He shall not proceed until he has made timely demand upon the Owner Designated Representative for, and received from him, such points as may be necessary as the work progresses. The work shall be done in strict conformity with such points.

52.5.3.1. Alignment Markers. The markers for alignment and location information which are shown on the plans have been previously established by a Florida Registered Land Surveyor. Monuments and other field markers consist of railroad spikes, iron pins, concrete monuments, and other markers in customary use in the area. The Vendor/Contractor shall lay out his work from these markers, and shall be responsible

for all measurements in connection therewith. The Vendor/Contractor shall preserve all alignment and right-of-way markers, and shall reset or replace at his own expense, any and all which are removed, destroyed or covered up by his work. In the event that additional markers, stakes or monuments are required, or in the event that previously established markers must be replaced, the Vendor/Contractor shall employ a Florida Registered Land Surveyor to reset or replace them.

52.5.3.2. Bench Marks. The Vendor/Contractor shall lay out his work from bench marks and elevations set by the Engineer. Bench marks and elevations set by the Engineer will be shown and explained to the Vendor/Contractor. Thereafter, these bench marks and elevations become the sole responsibility of the Vendor/Contractor, and if replacement is required, either at the request of the Vendor/Contractor or in the judgment of the Owner Designated Representative, the Vendor/Contractor shall pay for the cost of replacement. The Vendor/Contractor shall furnish, at his own expense, all templates, stakes, equipment, labor and materials as may be required in laying out any part of the work.

52.6. Hazardous Environmental Condition at Site:

52.6.1. Reports and Drawings: Any reports and drawings relating to a Hazardous Environmental Condition identified at the site, if any, that have been utilized by the Engineer in the preparation of the Contract Documents will be included in the Contract Documents as Attachments under Section X, General Requirements and Technical Specifications.

52.6.2. Limited Reliance by Vendor/Contractor on Technical Data Authorized: Vendor/Contractor may rely upon the general accuracy of the "technical data" contained in such reports and drawings, but such reports and drawings are not Contract Documents. Such "technical data" is identified in the Technical Specifications. Except for such reliance on such "technical data," Vendor/Contractor may not rely upon or make any claim against Owner or Engineer, or any of their related entities with respect to:

52.6.2.1. The completeness of such reports and drawings for Vendor/Contractor's purposes, including, but not limited to, any aspects of the means, methods, techniques, sequences and procedures of construction to be employed by Vendor/Contractor and safety precautions and programs incident thereto; or

52.6.2.2. Other data, interpretations, opinions and information contained in such reports or shown or indicated in such drawings;

52.6.3. Vendor/Contractor shall not be responsible for any Hazardous Environmental Condition uncovered or revealed at the site which was not shown or indicated in drawings or specifications or identified in the Contract Documents to be within the scope of the work. Vendor/Contractor shall be responsible for a Hazardous Environmental Condition created with any materials brought to the site by Vendor/Contractor, Sub-Contractors, suppliers, or anyone else for whom Vendor/Contractor is responsible.

52.6.4. If Vendor/Contractor encounters a Hazardous Environmental Condition or if Vendor/Contractor or anyone for whom Vendor/Contractor is responsible creates a Hazardous Environmental Condition, Vendor/Contractor shall immediately: (i) secure or otherwise isolate such condition; (ii) stop all work in connection with such condition and in any area affected thereby; and (iii) notify Owner and Owner Designated Representative (and promptly thereafter confirm such notice in writing). Owner shall promptly consult with Owner Designated Representative concerning the necessity for Owner to retain a qualified expert to evaluate such condition or take corrective action, if any.

52.6.5. Vendor/Contractor shall not be required to resume work in connection with such condition or in any affected area until after Owner has obtained any required permits related thereto and delivered to Vendor/Contractor written notice: (i) specifying that such condition and any affected area is or has been rendered safe for the resumption of work; or (ii) specifying any special

conditions under which such work may be resumed safely. If Owner and Vendor/Contractor cannot agree as to entitlement to or on the amount or extent, if any, of any adjustment in Contract Price or Contract Times, or both, as a result of such work stoppage or such special conditions under which work is agreed to be resumed by Vendor/Contractor, either party may make a claim therefore as provided in the Contract Documents.

52.6.6. If after receipt of such written notice Vendor/Contractor does not agree to resume such work based on a reasonable belief it is unsafe, or does not agree to resume such work under such special conditions, then Owner may order the portion of the work that is in the area affected by such condition to be deleted from the work. If Owner and Vendor/Contractor cannot agree as to entitlement to or on the amount or extent, if any, of an adjustment in Contract Price or Contract Times as a result of deleting such portion of the work, then either party may make a claim therefore as provided in the Contract Documents. Owner may have such deleted portion of the work performed by Owner's own forces or others in accordance with Paragraph 63.

52.6.7. The provisions in this Paragraph do not apply to a Hazardous Environmental Condition uncovered or revealed at the site.

53. PRE-CONSTRUCTION CONFERENCE:

53.1. Within fourteen (14) calendar days after the effective date of the Contract, but before Vendor/Contractor starts the work at the site, a conference attended by Vendor/Contractor, Owner Designated Representative, and other County staff personnel as appropriate will be held to discuss such topics as may include, but not limited to; schedules, procedures for handling shop drawings and other submittals and for processing Applications for Payment, MOT, initiation of coordination with affected utilities, Agreement upon the Notice to Proceed date, and to establish a working understanding among the parties as to the work.

54. INITIAL ACCEPTANCE OF SCHEDULES:

54.1. At least ten (10) days before submission of the first Application for Payment, a conference attended by Vendor/Contractor, Owner Designated Representative, and others as appropriate will be held to review for acceptability to Owner Designated Representative. Vendor/Contractor shall have an additional ten (10) days to make corrections and adjustments and to complete and re-submit the schedules. No progress payment shall be made to Vendor/Contractor until acceptable schedules are submitted to Owner Designated Representative.

54.1.1. The Progress Schedule will be acceptable to Owner Designated Representative if it provides an orderly progression of the work to completion within the Contract Times. Such acceptance will not impose on Owner Designated Representative responsibility for the Progress Schedule, for sequencing, scheduling, or progress of the work nor interfere with or relieve Vendor/Contractor from Vendor/Contractor's full responsibility therefore.

54.1.2. Vendor/Contractor's Schedule of Submittals will be acceptable to Owner Designated Representative if it provides a workable arrangement for reviewing and processing the required submittals.

54.1.3. Vendor/Contractor's Schedule of Values will be acceptable to Owner Designated Representative as to form and substance if it provides a reasonable allocation of the Contract Price to component parts of the work.

55. CHANGES IN THE WORK; CLAIMS:

55.1. Authorized Changes in the Work:

55.1.1. Without invalidating the Contract and without notice to any surety, Owner may, subject to written approval by Agency at any time or from time to time, order additions, deletions, or revisions in the work by a Change Order. Upon receipt of any such document, Vendor/Contractor shall promptly proceed with the work involved which will be performed under the applicable conditions of the Contract Documents (except as otherwise specifically provided).

55.1.2. If Owner and Vendor/Contractor are unable to agree on entitlement to, or on the amount or extent, if any, of an adjustment in the Contract Price or Contract Times, or both, that should be allowed as a result of a Change Order, a claim may be made therefor as provided in the Paragraph 55.5.

55.2. Unauthorized Changes in the Work: Vendor/Contractor shall not be entitled to an increase in the Contract Price or an extension of the Contract Times with respect to any work performed that is not required by the Contract Documents as amended, modified, or supplemented, except in the case of an emergency as stated in Paragraph 51.9 or in the case of uncovering work as stated in Paragraph 58.4.

55.3. Execution of Change Orders:

55.3.1. Owner and Vendor/Contractor shall execute appropriate Change Orders recommended by Owner Designated Representative covering:

55.3.1.1. Changes in the work which are: (i) ordered by Owner pursuant to Paragraph 55.1, (ii) required because of acceptance of defective work pursuant to Paragraph 58.8 or Owner's correction of defective work pursuant to Paragraph 58.9, or (iii) agreed to by the parties;

55.3.1.2. Changes in the Contract Price or Contract Times which are agreed to by the parties, including any undisputed sum or amount of time for work actually performed in accordance with a Change Order; and

55.3.1.3. Changes in the Contract Price or Contract Times which embody the substance of any written decision rendered by Owner Designated Representative pursuant to Paragraph 58; provided that, in lieu of executing any such Change Order, an appeal may be taken from any such decision in accordance with the provisions of the Contract Documents and applicable laws and regulations, but during any such appeal, Vendor/Contractor shall carry on the work and adhere to the Progress Schedule as provided in Paragraph 45.1.2.1.

55.3.2. The Contract Price constitutes the total compensation payable to the Vendor/Contractor for performing the work. All duties, responsibilities and obligations assigned to or undertaken by the Vendor/Contractor shall be at his expense without change in the Contract Price. The Contract Price may only be changed by a Change Order. Any claim for an increase in the Contract Price shall be in writing and delivered to the Owner Designated Representative within fifteen (15) days of the occurrence of the event giving rise to the claim. All claims for adjustment in the Contract Price shall be determined by the Owner Designated Representative. Any change in the Contract Price shall be incorporated in a Change Order.

55.4. Notification to Surety: If notice of any change affecting the general scope of the work or the provisions of the Contract Documents (including, but not limited to, Contract Price or Contract Times) is required by the provisions of any bond to be given to a surety, the giving of any such notice will be Vendor/Contractor's responsibility. The amount of each applicable bond will be adjusted to reflect the effect of any such change.

55.5. Claims:

55.5.1. Chief Procurement Officer's Decision Required: All claims, except those waived pursuant to Paragraph 59.9, shall be referred to the Chief Procurement Officer for decision. A decision by the Chief Procurement Officer shall be required as a condition precedent to any exercise by Owner or Vendor/Contractor of any rights or remedies either may otherwise have under Paragraph 58.9 or by laws and regulations in respect of such claims.

55.5.2. Notice: Written notice stating the general nature of each claim shall be delivered by the claimant to the Chief Procurement Officer and the other party to the Contract promptly (but in no event later than thirty (30) days) after the start of the event giving rise thereto. The responsibility to substantiate a claim shall rest with the party making the claim. Notice of the amount or extent of the claim, with supporting data shall be delivered to the Chief Procurement Officer and the other party to the Contract within sixty (60) days after the start of such event (unless the Chief

Procurement Officer allows additional time for claimant to submit additional or more accurate data in support of such claim). A claim for an adjustment in Contract Price shall be prepared in accordance with the provisions of Paragraph 57.1. A claim for an adjustment in Contract Time shall be prepared in accordance with the provisions of Paragraph 57.2. Each claim shall be accompanied by claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant believes it is entitled as a result of said event. The opposing party shall submit any response to the Chief Procurement Officer and the claimant within thirty (30) days after receipt of the claimant's last submittal (unless the Chief Procurement Officer allows additional time).

55.5.3. Chief Procurement Officer's Action: Chief Procurement Officer will review each claim and, within thirty (30) days after receipt of the last submittal of the claimant or the last submittal of the opposing party, if any, take one (1) of the following actions in writing:

55.5.3.1. Deny the claim in whole or in part,

55.5.3.2. Approve the claim, or

55.5.3.3. Notify the parties that the Chief Procurement Officer is unable to resolve the claim if, in the Chief Procurement Officer's sole discretion, it would be inappropriate for the Chief Procurement Officer to do so. For purposes of further resolution of the claim, such notice shall be deemed a denial.

55.5.4. In the event that Chief Procurement Officer does not take action on a claim within said thirty (30) days, the claim shall be deemed denied.

55.5.5. Chief Procurement Officer's written action or denial pursuant to Paragraphs 55.5.3 and 55.5.4 will be final and binding upon Owner and Vendor/Contractor, unless Owner or Vendor/Contractor invoke the dispute resolution procedure set forth in Paragraph 61 within thirty (30) days of such action or denial.

55.5.6. No claim for an adjustment in Contract Price or Contract Times will be valid if not submitted in accordance with the provisions stated in Paragraph 57.

56. COST OF THE WORK; ALLOWANCES; UNIT PRICE WORK:

56.1. Cost of the Work:

56.1.1. Costs Included: The term cost of the work means the sum of all costs, except those excluded according to Paragraph 56.1.2, necessarily incurred and paid by Vendor/Contractor in the proper performance of the work. When the value of any work covered by a Change Order or when a claim for an adjustment in Contract Price is determined on the basis of cost of the work, the costs to be reimbursed to Vendor/Contractor will be only those additional or incremental costs required because of the change in the work or because of the event giving rise to the claim. Except as otherwise may be agreed to in writing by Owner, such costs shall be in amounts no higher than those prevailing in the locality of the project, shall include only the following items, and shall not include any of the costs itemized in Paragraph 56.1.2.

56.1.1.1. Payroll costs for employees in the direct employ of Vendor/Contractor in the performance of the work under schedules of job classifications agreed upon by Owner and Vendor/Contractor. Such employees shall include, without limitation, superintendents, foremen, and other personnel employed full time at the site. Payroll costs for employees not employed full time on the work shall be apportioned on the basis of their time spent on the work. Payroll costs shall include, but not be limited to, salaries and wages plus the cost of fringe benefits, which shall include social security contributions, unemployment, excise, and payroll taxes, workers' compensation, health and retirement benefits, bonuses, sick leave, vacation and holiday pay applicable thereto. The expenses of performing work outside of regular working hours, on Saturday, Sunday, or legal holidays, shall be included in the above to the extent authorized by Owner.

56.1.1.2. Cost of all materials and equipment furnished and incorporated in the work, including costs of transportation and storage thereof, and suppliers' field services required in connection therewith. All cash discounts shall accrue to Vendor/Contractor unless Owner deposits funds with Vendor/Contractor with which to make payments, in which case the cash discounts shall accrue to Owner. All trade discounts, rebates and refunds and returns from sale of surplus materials and equipment shall accrue to Owner, and Vendor/Contractor shall make provisions so that they may be obtained.

56.1.1.3. Payments made by Vendor/Contractor to Sub-Contractors for work performed by Sub-Contractors. If required by Owner, Vendor/Contractor shall obtain competitive Bids from Sub-Contractors acceptable to Owner and Vendor/Contractor and shall deliver such Bids to Owner, who will then determine, with the advice of Owner Designated Representative, which Bids, if any, will be acceptable. If any Sub-Contract provides that the Sub-Contractor is to be paid on the basis of cost of the work plus a fee, the Sub-Contractor's cost of the work and fee shall be determined in the same manner as Vendor/Contractor's cost of the work and fee as provided in this Paragraph 56.1.

56.1.1.4. Costs of special consultants (including but not limited to Engineers, architects, testing laboratories, surveyors, attorneys, and accountants) employed for services specifically related to the work.

56.1.1.5. Supplemental costs including the following:

56.1.1.5.1. The proportion of necessary transportation, travel, and subsistence expenses of Vendor/Contractor's employees incurred in discharge of duties connected with the work.

56.1.1.5.2. Cost, including transportation and maintenance, of all materials, supplies, equipment, machinery, appliances, office, and temporary facilities at the site, and hand tools not owned by the workers, which are consumed in the performance of the work, and cost, less market value, of such items used but not consumed which remain the property of Vendor/Contractor.

56.1.1.5.3. Rentals of all construction equipment and machinery, and the parts thereof whether rented from Vendor/Contractor or others in accordance with rental Agreements approved by Owner with the advice of the Owner Designated Representative, and the costs of transportation, loading, unloading, assembly, dismantling, and removal thereof. All such costs shall be in accordance with the terms of said rental Agreements. The rental of any such equipment, machinery, or parts shall cease when the use thereof is no longer necessary for the work.

56.1.1.5.4. Sales, consumer, use, and other similar taxes related to the work, and for which Vendor/Contractor is liable, imposed by laws and regulations.

56.1.1.5.5. Deposits lost for causes other than negligence of Vendor/Contractor, any Sub-Contractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, and royalty payments and fees for permits and licenses.

56.1.1.5.6. Losses and damages (and related expenses) caused by damage to the work, not compensated by insurance or otherwise, sustained by Vendor/Contractor in connection with the performance of the work (except losses and damages within the deductible amounts of property insurance established in accordance with the Contract Documents),

provided such losses and damages have resulted from causes other than the negligence of Vendor/Contractor, any Sub-Contractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable. Such losses shall include settlements made with the written consent and approval of Owner. No such losses, damages, and expenses shall be included in the cost of the work for the purpose of determining Vendor/Contractor's fee.

56.1.1.5.7. The cost of utilities, fuel, and sanitary facilities at the site.

56.1.1.5.8. Minor expenses such as telegrams, long distance telephone calls, telephone service at the site, expressages, and similar petty cash items in connection with the work.

56.1.1.5.9. Vendor/Contractor is required by the Contract Documents to purchase and maintain all bonds and insurance.

56.1.2. Costs Excluded: The term cost of the work shall not include any of the following items:

56.1.2.1. Payroll costs and other compensation of Vendor/Contractor's officers, executives, principals (of partnerships and sole proprietorships), general managers, safety managers, engineers, architects, estimators, attorneys, auditors, accountants, purchasing and Contracting agents, expediters, timekeepers, clerks, and other personnel employed by Vendor/Contractor, whether at the site or in Vendor/Contractor's principal or branch office for general administration of the work and not specifically included in the agreed upon schedule of job classifications referred to in Paragraph 56.1.1.1 or specifically covered by Paragraph 56.1.1.4, all of which are to be considered administrative costs covered by the Vendor/Contractor's fee.

56.1.2.1.1. Expenses of Vendor/Contractor's principal and branch offices other than Vendor/Contractor's office at the site.

56.1.2.1.2. Any part of Vendor/Contractor's capital expenses, including interest on Vendor/Contractor's capital employed for the work and charges against Vendor/Contractor for delinquent payments.

56.1.2.1.3. Costs due to the negligence of Vendor/Contractor, any Sub-Contractor, or anyone directly or indirectly employed by any of them or for whose acts any of them may be liable, including but not limited to, the correction of defective work, disposal of materials or equipment wrongly supplied, and making good any damage to property.

56.1.2.1.4. Other overhead or general expense costs of any kind and the costs of any item not specifically and expressly included in Paragraphs 56.1.1 and 56.1.2.

56.1.3. Vendor/Contractor's Fee: When all the work is performed on the basis of cost-plus, Vendor/Contractor's fee shall be determined as set forth in the Agreement. When the value of any work covered by a Change Order or when a claim for an adjustment in Contract Price is determined on the basis of cost of the work, Vendor/Contractor's fee shall be determined as set forth in Paragraph 57.1.3.

56.1.4. Documentation: Whenever the cost of the work for any purpose is to be determined pursuant to Paragraph 56.1, Vendor/Contractor will establish and maintain records thereof in accordance with generally accepted accounting practices and submit in a form acceptable to Owner Designated Representative an itemized cost breakdown together with supporting data.

56.2. Allowances:

56.2.1. It is understood that Vendor/Contractor has included in the Contract Price all allowances so named in the Contract Documents and shall cause the work so covered to be performed for such sums and by such persons or entities as may be acceptable to Owner and Engineer.

56.2.2. Cash Allowances:

56.2.2.1. Vendor/Contractor agrees that:

56.2.2.1.1. The cash allowances include the cost to Vendor/Contractor (less any applicable trade discounts) of materials and equipment required by the allowances to be delivered at the site, and all applicable taxes; and

56.2.2.1.2. Vendor/Contractor's costs for unloading and handling on the site, labor, installation, overhead, profit, and other expenses contemplated for the cash allowances have been included in the Contract Price and not in the allowances, and no demand for additional payment on account of any of the foregoing will be valid.

56.2.3. Contingency Allowance: Vendor/Contractor agrees that a contingency allowance, if any, is for the sole use of Owner to cover unanticipated costs.

56.2.4. Prior to final payment, an appropriate Change Order will be issued as recommended by Engineer to reflect actual amounts due Vendor/Contractor on account of work covered by allowances, and the Contract Price shall be correspondingly adjusted.

56.3. Unit Price Work:

56.3.1. Where the Contract Documents provide that all or part of the work is to be Unit Price Work, initially the Contract Price will be deemed to include for all Unit Price Work an amount equal to the sum of the unit price for each separately identified item of Unit Price Work times the estimated quantity of each item as indicated in the Agreement.

56.3.2. The estimated quantities of items of Unit Price Work are not guaranteed and are solely for the purpose of comparison of Bids and determining an initial Contract Price. Determinations of the actual quantities and classifications of Unit Price Work performed by Vendor/Contractor will be made by Owner Designated Representative subject to the provisions stated in the Contract Documents.

56.3.3. Each unit price will be deemed to include an amount considered by Vendor/Contractor to be adequate to cover Vendor/Contractor's overhead and profit for each separately identified item.

57. CHANGE OF CONTRACT PRICE; CHANGE OF CONTRACT TIMES:

57.1. Change of Contract Price:

57.1.1. The Contract Price may only be changed by a Change Order. Any claim for an adjustment in the Contract Price shall be based on written notice submitted by the party making the claim to the Owner Designated Representative and the Chief Procurement Officer to the Contract in accordance with Paragraph 55.5.

57.1.2. The value of any work covered by a Change Order or of any claim for an adjustment in the Contract Price will be determined as follows:

57.1.2.1. Where the work involved is covered by unit prices contained in the Contract Documents, by application of such unit prices to the quantities of the items involved (subject to the provisions stated in Paragraph 56.3); or

57.1.2.2. Where the work involved is not covered by unit prices contained in the Contract Documents, but by a mutually agreed lump sum (which may include an allowance for overhead and profit not necessarily in accordance with Paragraph 56.2.2); or

57.1.2.3. Where the work involved is not covered by unit prices contained in the Contract Documents and Agreement to a lump sum is not reached under Paragraph 56.1, on the basis of the cost of the work, plus a Vendor/Contractor's fee for overhead and profit as described in Paragraph 57.1.3.

57.1.3. Vendor/Contractor's Fee: The Vendor/Contractor's fee for overhead and profit shall be determined as follows:

57.1.3.1. A mutually acceptable fixed fee; or

57.1.3.2. If a fixed fee is not agreed upon, then a fee based on the following percentages of the various portions of the cost of the work:

57.1.3.2.1. For costs incurred under Paragraphs 57.1.2.1 and 57.1.2.2, the Vendor/Contractor's fee shall be fifteen percent (15%);

57.1.3.2.2. For costs incurred under Paragraph 57.1.2.3, the Vendor/Contractor's fee shall be five percent (5%);

57.1.3.2.3. Where one (1) or more tiers of Sub-Contracts are on the basis of cost of the work plus a fee and no fixed fee is agreed upon, the intent of Paragraph 57.1.3.2.1 is that the Sub-Contractor who actually performs the work, at whatever tier, will be paid a fee of fifteen percent (15%) of the costs incurred by such Sub-Contractor under Paragraphs 57.1.2.1 and 57.1.2.2 and that any higher tier Sub-Contractor and Vendor/Contractor will each be paid a fee of five percent (5%) of the amount paid to the next lower tier Sub-Contractor;

57.1.3.2.4. No fee shall be payable on the basis of costs itemized under Paragraphs 56.1.1.4, 56.1.1.5, and 56.1.2;

57.1.3.2.5. The amount of credit to be allowed by Vendor/Contractor to Owner for any change which results in a net decrease in cost will be the amount of the actual net decrease in cost plus a deduction in Vendor/Contractor's fee by an amount equal to five percent of such net decrease; and

57.1.3.2.6. When both additions and credits are involved in any one (1) change, the adjustment in Vendor/Contractor's fee shall be computed on the basis of the net change in accordance with Paragraphs 57.1.3.2.1 through 57.1.3.2.6, inclusive.

57.1.3.3. In such case, the Vendor/Contractor will submit in the form prescribed by the Owner, an itemized cost breakdown together with supporting data. The amount of credit to be allowed by the Vendor/Contractor to the Owner for any such change which results in a net decrease in cost, will be the amount of the actual net decrease as determined by the Owner. When both additions and credits are involved in any one (1) change, the combined overhead and profit shall be figured on the basis of the net decrease, if any.

57.2. Change of Contract Times:

57.2.1. The Contract Times may only be changed by a Change Order. Any claim for an adjustment in the Contract Times shall be based on written notice submitted by the party making the claim to the Engineer and the other party to the Contract in accordance with the provisions of Paragraph 55.5.

57.2.2. Any adjustment of the Contract Times covered by a Change Order or any claim for an adjustment in the Contract Times will be determined in accordance with the provisions of this Paragraph.

57.3. Delays:

57.3.1. Where Vendor/Contractor is prevented from completing any part of the work within the Contract Times due to delay beyond the control of Vendor/Contractor, the Contract Times will be extended in an amount equal to the time lost due to such delay if a claim is made therefore as provided in Paragraph 55.5. Delays beyond the control of Vendor/Contractor shall include, but not be limited to, acts or neglect by Owner, acts or neglect of utility owners or other Vendor/Contractors performing other work as contemplated by Paragraph 64, fires, floods, epidemics, abnormal weather conditions, or acts of God.

57.3.2. If Owner, Engineer, or other Vendor/Contractors or utility owners performing other work for Owner as contemplated by Paragraph 64, or anyone for whom Owner is responsible, delays, disrupts, or interferes with the performance or progress of the work, then Vendor/Contractor shall be entitled to an equitable adjustment in the Contract Price or the Contract Times, or both. Vendor/Contractor's entitlement to an adjustment of the Contract Times is conditioned on such adjustment being essential to Vendor/Contractor's ability to complete the work within the Contract Times.

57.3.3. If Vendor/Contractor is delayed in the performance or progress of the work by fire, flood, epidemic, abnormal weather conditions, acts of God, acts or failures to act of utility owners not under the control of Owner, or other causes not the fault of and beyond control of Owner and Vendor/Contractor, then Vendor/Contractor shall be entitled to an equitable adjustment in Contract Times, if such adjustment is essential to Vendor/Contractor's ability to complete the work within the Contract Times. Such an adjustment shall be Vendor/Contractor's sole and exclusive remedy for the delays described in this Paragraph.

57.3.3.1. Time Extensions for Delays Caused by Weather-Extensions of Contract time for delays caused by the effects of inclement weather are justified only when inclement weather conditions or related adverse soil conditions prevent the Contractor from productively performing controlling items of work resulting in:

(1) The Contractor being unable to work at least fifty percent (50%) of the normal work day on the predetermined controlling work items; or
(2) The Contractor must make major repairs to work damaged by weather, providing the damage was not attributable to a failure to perform or neglect by the Contractor.
(3) Contractor must submit a written notice along with their updated progress schedule with their Monthly progress payment request. If no monthly progress payment is being submitted for the month, then a written notice within thirty (30) days after occurrence of the event(s) giving rise to the weather delays must be submitted to the Owner, Engineer or designated person.

57.3.3.2. Project Manager/Inspector**-** Daily reports shall be maintained for all projects by the project manager/inspector. This shall include weather conditions, working conditions, erosion control, and effects of weather on major work items identified on the progress schedule and general comments as a minimum.

57.3.3.3. Weather Delays for Projects- Time Extensions will be granted on a Contract day per delayed day.

(1) The Contractor provides a schedule which identifies the intended work week, thus determining the scheduled work days and the controlling items of work. The initial progress schedule must be approved and agreed to by Owner, Engineer, or designated person and Contractor's representative prior to the Notice to Proceed being issued and before any work has been performed and

monthly when submitted with the pay request if any changes have occurred during the reporting period. No weather delays will be recognized before the Contractor actually begins work or attempts to begin work in accordance with the approved project work schedule. Weather delays will be granted only during the authorized Contract Time Period.

(2) The Owner, Engineer or designated person shall review the request and the daily reports and determine if these delays are authorized. A written response will be given to the Contractor/Vendor within five (5) business days after receipt of the request. The Chief Procurement Officer will be provided a copy of this letter and any related correspondence.

57.3.4. Owner, Engineer and the related entities of each of them shall not be liable to Vendor/Contractor for any claims, costs, losses, or damages (including but not limited to all fees and charges of Engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Vendor/Contractor on or in connection with any other project or anticipated project.

57.3.5. Vendor/Contractor shall not be entitled to an adjustment in Contract Price or Contract Times for delays within the control of Vendor/Contractor. Delays attributable to and within the control of a Sub-Contractor or supplier shall be deemed to be delays within the control of Vendor/Contractor.

58. TESTS & INSPECTIONS; CORRECTION, REMOVAL/ACCEPTANCE OF DEFECTIVE WORK:

58.1. Notice of Defects: Prompt notice of all defective work of which Owner or Engineer has actual knowledge will be given to Vendor/Contractor. All defective work may be rejected, corrected, or accepted as provided in this Paragraph.

58.2. Access to Work: Owner, Engineer, their consultants and other representatives and personnel of Owner, independent testing laboratories, and governmental agencies with jurisdictional interests will have access to the site and the work at reasonable times for their observation, inspecting, and testing. Vendor/Contractor shall provide them proper and safe conditions for such access and advise them of Vendor/Contractor's site safety procedures and programs so that they may comply therewith as applicable.

58.3. Tests and Inspections:

58.3.1. Vendor/Contractor shall give Engineer timely notice of readiness of the work for all required inspections, tests, or approvals and shall cooperate with inspection and testing personnel to facilitate required inspections or tests.

58.3.2. Owner shall employ and pay for the services of an independent testing laboratory to perform all inspections, tests, or approvals required by the Contract Documents except:

58.3.2.1. For inspections, tests, or approvals covered by Paragraphs 58.3.3 and 58.3.4 below;

58.3.2.2. That costs incurred in connection with tests or inspections conducted pursuant to Paragraph 58.3.2 shall be paid according to Paragraph 58.3.4; and

58.3.2.3. As otherwise specifically provided in the Contract Documents.

58.3.3. If laws or regulations of any public body having jurisdiction require any work (or part thereof) specifically to be inspected, tested, or approved by an employee or other representative of such public body, Vendor/Contractor shall assume full responsibility for arranging and obtaining such inspections, tests, or approvals, pay all costs in connection therewith, and furnish Owner Designated Representative the required certificates of inspection or approval.

58.3.4. Vendor/Contractor shall be responsible for arranging and obtaining and shall pay all costs in connection with any inspections, tests, or approvals required for Owner's and Owner Designated Representative's acceptance of materials or equipment to be incorporated in the work; or acceptance of materials, mix designs, or equipment submitted for approval prior to Vendor/Contractor's purchase thereof for incorporation in the work. Such inspections, tests, or

approvals shall be performed by organizations acceptable to Owner and Owner Designated Representative.

58.3.5. If any work (or the work of others) that is to be inspected, tested, or approved is covered by Vendor/Contractor without written concurrence of Owner Designated Representative, it must, if requested by Owner Designated Representative, be uncovered for observation.

58.3.6. Uncovering work as provided in Paragraph 58.4 shall be at Vendor/Contractor's expense unless Vendor/Contractor has given Engineer timely notice of Vendor/Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice.

58.3.7. Periodic inspections will be held throughout the work at the discretion of the Owner and Engineer to verify progress and compliance to Contract Documents, pay requests and general quality control.

58.3.8. Pre-final inspections are held for the purpose of substantiating completion of the work and preparing a punch-list of any deficiencies or corrections to be made. Pre-finals should be made with a representative of the Vendor/Contractor, Owner Designated Representative and Owner.

58.3.9. Final inspections will be held prior to acceptance in order to verify that all corrections and/or deficiencies have been performed or resolved and such inspection shall be mandatory prior to approval of final pay request. Finals shall be made with a representative of the Vendor/Contractor, Engineer and Owner.

58.4. Uncovering Work:

58.4.1. If any work is covered contrary to the written request of Owner Designated Representative, it must, if requested by Owner Designated Representative, be uncovered for Owner Designated Representative's observation and replaced at Vendor/Contractor's expense.

58.4.2. If Owner Designated Representative considers it necessary or advisable that covered work be observed by Owner Designated Representative or inspected or tested by others, Vendor/Contractor, at Owner Designated Representative's request, shall uncover, expose, or otherwise make available for observation, inspection, or testing as Owner Designated Representative may require, that portion of the work in question, furnishing all necessary labor, material, and equipment.

58.4.3. If it is found that the uncovered work is defective, Vendor/Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such uncovering, exposure, observation, inspection, and testing, and of satisfactory replacement or reconstruction (including but not limited to all costs of repair or replacement of work of others); and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount thereof, Owner may make a claim therefore as provided in Paragraph 55.5.

58.4.4. If, the uncovered work is not found to be defective, and there are no related inspection requirements in the Contract Documents, Vendor/Contractor shall be allowed an increase in the Contract Price or an extension of the Contract Times, or both, directly attributable to such uncovering, exposure, observation, inspection, testing, replacement, and reconstruction. If the parties are unable to agree as to the amount or extent thereof, Vendor/Contractor may make a claim therefore as provided in Paragraph 55.5.

58.5. Owner Designated Representative May Stop the Work: If the work is defective, or Vendor/Contractor fails to supply sufficient skilled workers or suitable materials or equipment, or fails to perform the work in such a way that the completed work will conform to the Contract Documents, Owner may order Vendor/Contractor to stop the work, or any portion thereof, until the cause for such order has been eliminated; however, this right of Owner to stop the work shall not give rise to any duty on the part of Owner to exercise this right for

the benefit of Vendor/Contractor, any Sub-Contractor, any supplier, any other individual or entity, or any surety for, or employee or agent of any of them.

58.6. Correction or Removal of Defective Work:

58.6.1. Promptly after receipt of notice, Vendor/Contractor shall correct all defective work, whether or not fabricated, installed, or completed, or, if the work has been rejected by Owner Designated Representative, remove it from the Project and replace it with work that is not defective. Vendor/Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or removal (including but not limited to all costs of repair or replacement of work of others).

58.6.2. When correcting defective work under the terms of this Paragraph or the Paragraph below, Vendor/Contractor shall take no action that would void or otherwise impair Owner's special warranty and guarantee, if any, on said work.

58.7. Correction Period:

58.7.1. If within one (1) year after the date of Substantial Completion (or such longer period of time as may be prescribed by the terms of any applicable special guarantee required by the Contract Documents) or by any specific provision of the Contract Documents, any work is found to be defective, or if the repair of any damages to the land or areas made available for Vendor/Contractor's use by Owner or permitted by laws and regulations as contemplated in the Contract Documents is found to be defective, Vendor/Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions:

58.7.1.1. Repair such defective land or areas; or

58.7.1.2. Correct such defective work; or

58.7.1.3. If the defective work has been rejected by Owner, remove it from the project and replace it with work that is not defective, and

58.7.1.4. Satisfactorily correct or repair or remove and replace any damage to other work, to the work of others or other land or areas resulting therefrom.

58.7.2. If Vendor/Contractor does not promptly comply with the terms of Owner's written instructions, or in an emergency where delay would cause serious risk of loss or damage, Owner may have the defective work corrected or repaired or may have the rejected work removed and replaced. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) arising out of or relating to such correction or repair or such removal and replacement (including but not limited to all costs of repair or replacement of work of others) will be paid by Vendor/Contractor.

58.7.3. In special circumstances where a particular item of equipment is placed in continuous service before Substantial Completion of all the work, the correction period for that item may start to run from an earlier date if so provided in the specifications.

58.7.4. Where defective work (and damage to other work resulting therefrom) has been corrected or removed and replaced under Paragraph 58.6, the correction period hereunder with respect to such work will be extended for an additional period of one (1) year after such correction or removal and replacement has been satisfactorily completed.

58.7.5. Vendor/Contractor's obligations under Paragraph 58.6 are in addition to any other obligation or warranty. The provisions of Paragraph 58.6 shall not be construed as a substitute for or a waiver of the provisions of any applicable statute of limitation or repose.

58.8. Acceptance of Defective Work: If, instead of requiring correction or removal and replacement of defective work, Owner (and, prior to Owner Designated Representative's recommendation of final payment, Owner Designated Representative) prefers to accept it, Owner may do so. Vendor/Contractor shall pay all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) attributable to Owner's evaluation of and determination to accept such defective work (such costs to be approved by Owner Designated Representative as to reasonableness) and the diminished value of the work to the extent not otherwise paid by Vendor/Contractor pursuant to this sentence. If any such acceptance occurs prior to Owner Designated Representative's recommendation of final payment, a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the work, and Owner shall be entitled to an appropriate decrease in the Contract Price, reflecting the diminished value of work so accepted. If the parties are unable to agree as to the amount thereof, Owner may make a claim therefore as provided in Paragraph 55.5. If the acceptance occurs after such recommendation, an appropriate amount will be paid by Vendor/Contractor to Owner.

58.9. Owner May Correct Defective Work:

58.9.1. If Vendor/Contractor fails within a reasonable time after written notice from Owner Designated Representative to correct defective work or to remove and replace rejected work as required by Owner Designated Representative in accordance with Paragraph 58.6.1, or if Vendor/Contractor fails to perform the work in accordance with the Contract Documents, or if Vendor/Contractor fails to comply with any other provision of the Contract Documents, Owner may, after seven (7) days written notice to Vendor/Contractor, correct or remedy any such deficiency.

58.9.2. In exercising the rights and remedies under this Paragraph, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Vendor/Contractor from all or part of the site, take possession of all or part of the work and suspend Vendor/Contractor's services related thereto, take possession of Vendor/Contractor's tools, appliances, construction equipment and machinery at the site, and incorporate in the work all materials and equipment stored at the site or for which Owner has paid Vendor/Contractor but which are stored elsewhere. Vendor/Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other Vendor/Contractors, and Engineer and Engineer's consultants access to the site to enable Owner to exercise the rights and remedies under this Paragraph.

58.9.3. All claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) incurred or sustained by Owner in exercising the rights and remedies under Paragraph 58.9 will be charged against Vendor/Contractor, and a Change Order will be issued incorporating the necessary revisions in the Contract Documents with respect to the work; and Owner shall be entitled to an appropriate decrease in the Contract Price. If the parties are unable to agree as to the amount of the adjustment, Owner may make a claim therefore as provided in Paragraph 55.5. Such claims, costs, losses and damages will include but not be limited to all costs of repair, or replacement of work of others destroyed or damaged by correction, removal, or replacement of Vendor/Contractor's defective work.

58.9.4. Vendor/Contractor shall not be allowed an extension of the Contract Times because of any delay in the performance of the work attributable to the exercise by Owner of Owner's rights and remedies under Paragraph 58.9.

59. PAYMENTS TO CONTRACTOR AND COMPLETION:

59.1. Schedule of Values: The Schedule of Values established as provided in Paragraph 45.1.2.3 will serve as the basis for progress payments and will be incorporated into a form of Application for Payment acceptable to Owner Designated Representative. Progress payments on account of Unit Price Work will be based on the number of units completed.

59.2. Progress Payments:

59.2.1. Applications for Payments:

59.2.1.1. At least twenty (20) business days before the date established in the Agreement for each progress payment (but not more often than once a month), Vendor/Contractor shall submit to Owner Designated Representative for review an Application for Payment filled out and signed by Vendor/Contractor covering the work completed as of the date of the application and accompanied by such supporting documentation as is required by the Contract Documents. If payment is requested on the basis of materials and equipment not incorporated in the work but delivered and suitably stored at the site or at another location agreed to in writing, the Application for Payment shall also be accompanied by a bill of sale, invoice, or other documentation warranting that Owner has received the materials and equipment all of which must be satisfactory to Owner.

59.2.1.2. Beginning with the second Application for Payment, each Application shall include an affidavit of Vendor/Contractor stating that all previous progress payments received on account of the work have been applied on account to discharge Vendor/Contractor's legitimate obligations associated with prior Applications for Payment.

59.2.1.3. The amount of retainage with respect to progress payments will be as stipulated in Article 5.02 of the Construction Agreement.

59.2.1.4. All progress payments will be subject to withholding and payment of retainage as specified under the provisions of Ch. 218.735, F.S. (current version) and as stipulated in the Contract Agreement attached herein. Payment requests will be processed within the time periods established by applicable provisions of the Florida Prompt Payment Act, Part VII, Ch. 218.735, F.S (current version).

59.2.2. Review of Applications:

59.2.2.1. Owner Designated Representative will, within five (5) business days after receipt of each Application for Payment, either indicate in writing a recommendation of payment and present the Application to Owner or return the Application to Vendor/Contractor indicating in writing Owner Designated Representative's reasons for refusing to recommend payment. In the latter case, Vendor/Contractor may make the necessary corrections and resubmit the Application.

59.2.2.2. Owner Designated Representative's recommendation of any payment requested in an Application for Payment will constitute a representation by Owner Designated Representative to Owner, based on Owner Designated Representative's observations on the site of the executed work as an experienced and qualified design professional and on Owner Designated Representative's review of the Application for Payment and the accompanying data and schedules, that to the best of Owner Designated Representative's knowledge, information and belief:

59.2.2.2.1. The work has progressed to the point indicated;

59.2.2.2.2. The quality of the work is generally in accordance with the Contract Documents (subject to an evaluation of the work as a functioning whole prior to or upon substantial completion, to the results of any subsequent tests called for in the Contract Documents, to a final determination of quantities and classifications for Unit Price Work under Paragraph 56.3, and to any other qualifications stated in the recommendation); and

59.2.2.2.3. The conditions precedent to Vendor/Contractor's being entitled to such payment appear to have been fulfilled in so far as it is Owner Designated Representative's responsibility to observe the work.

59.2.2.3. By recommending any such payment Owner Designated Representative will not thereby be deemed to have represented that:

59.2.2.3.1. Inspections made to check the quality or the quantity of the work as it has been performed have been exhaustive, extended to every aspect of the work in progress, or involved detailed inspections of the work beyond the responsibilities specifically assigned to Owner Designated Representative in the Contract Documents; or

59.2.2.3.2. That there may not be other matters or issues between the parties that might entitle Vendor/Contractor to be paid additionally by Owner or entitle Owner to withhold payment to Vendor/Contractor.

59.2.2.4. Neither Owner Designated Representative's review of Vendor/Contractor's work for the purposes of recommending payments nor Owner Designated Representative's recommendation of any payment, including final payment, will impose responsibility on Owner Designated Representative:

:

59.2.2.4.1. To supervise, direct, or control the work, or

59.2.2.4.2. For the means, methods, techniques, sequences, or procedures of construction, or the safety precautions and programs incident thereto, or

59.2.2.4.3. For Vendor/Contractor's failure to comply with laws and regulations applicable to Vendor/Contractor's performance of the work, or

59.2.2.4.4. To make any examination to ascertain how or for what purposes Vendor/Contractor has used the moneys paid on account of the Contract Price, or

59.2.2.4.5. To determine that title to any of the work, materials, or equipment has passed to Owner free and clear of any liens.

59.2.2.5. Owner Designated Representative may refuse to recommend the whole or any part of any payment if, in Owner Designated Representative's opinion, it would be incorrect to make the representations to Owner stated in Paragraph 59.2.2.2. Owner Designated Representative may also refuse to recommend any such payment or, because of subsequently discovered evidence or the results of subsequent inspections or tests, revise or revoke any such payment recommendation previously made, to such extent as may be necessary in Owner Designated Representative's opinion to protect Owner from loss because:

59.2.2.5.1. The work is defective, or completed work has been damaged, requiring correction or replacement;

59.2.2.5.2. The Contract Price has been reduced by Change Orders;

59.2.2.5.3. Owner has been required to correct defective work or complete work in accordance with Paragraph 58.9; or

59.2.2.5.4. Owner Designated Representative has actual knowledge of the occurrence of any of the events enumerated in Paragraph 60.5.

59.2.3. Payment Becomes Due: The Application for Payment, and all of the required Federal and State submittals, with the Owner Designated Representative's recommendations will be presented to the Owner for consideration. If the Owner finds the Application for Payment acceptable, the recommended amount, less any reduction under the provisions of Paragraph 59.2.5, will become due twenty-five (25) business days after the Application for Payment is presented to the Owner, and the Owner will make payment to the Vendor/Contractor.

59.2.4. Payment to Vendor/Contractor by Electronic Payment Solution: ACH (Direct Deposit): If the Vendor/Contractor is enrolled in the County's ACH electronic payment solution, all payments will be made using the direct deposit which may or may not include a pre-note transaction. The Vendor/Contractor's bank account information will remain confidential to the extent provided by law and necessary to make direct deposit payments. Once the County has approved payment, an electronic remittance advice will be sent to the Vendor/Contractor via e-mail.

59.2.5. Reduction in Payment:

59.2.5.1. Owner may refuse to make payment of the full amount recommended by Owner Designated Representative because:

59.2.5.1.1. Claims have been made against Owner on account of Vendor/Contractor's performance or furnishing of the work;

59.2.5.1.2. Liens have been filed in connection with the work, except where Vendor/Contractor has delivered a specific bond satisfactory to Owner to secure the satisfaction and discharge of such liens;

59.2.5.1.3. The Vendor/Contractor's performance or furnishing of the work is inconsistent with funding Agency requirements;

59.2.5.1.4. There are other items entitling Owner to a set-off against the amount recommended; or

59.2.5.1.5. Owner has actual knowledge of the occurrence of any of the events enumerated in Paragraphs 59.2.2.5.1 through 59.2.2.5.3 or Paragraph 60.5.

59.2.5.2. If Owner refuses to make payment of the full amount recommended by Owner Designated Representative, Owner will (in no case more than twenty (20) business days after receipt and twenty-five (25) business days for payment) give Vendor/Contractor immediate written notice (with a copy to Engineer) stating the reasons for such action and promptly pay Vendor/Contractor any amount remaining after deduction of the amount so withheld. Owner shall promptly pay Vendor/Contractor the amount so withheld, or any adjustment thereto agreed to by Owner and Vendor/Contractor, when Vendor/Contractor corrects to Owner's satisfaction the reasons for such action.

59.2.5.3. If it is subsequently determined that Owner's refusal of payment was not justified, the amount wrongfully withheld shall be treated as an amount due as determined by Paragraph 59.2.3.

59.2.5.4. No payments will be made that would deplete the retainage, place in escrow any funds that are required for retainage, or invest the retainage for the benefit of the Vendor/Contractor.

59.3. Vendor/Contractor's Warranty of Title:

59.3.1. Vendor/Contractor warrants and guarantees that title to all work, materials, and equipment covered by any Application for Payment, whether incorporated in the Project or not, will pass to Owner prior to the making of the Application for Payment, free and clear of all liens, claims,

security interests and encumbrances; and that no work, materials or equipment covered by an Application for Payment will have been acquired by the Vendor/Contractor or by any other person performing the work at the site or furnishing materials and equipment for the project subject to an Agreement under which an interest therein or encumbrance thereon is retained by the seller or otherwise imposed by the Vendor/Contractor or such other person.

59.3.2. In compliance with the above and as verification of the Vendor/Contractor's compliance with applicable provisions of the Florida Prompt Payment Act, Part VII, Ch. 218.735, F.S. (current version), concerning payment to Sub-Contractors and suppliers, the Vendor/Contractor, in addition to any other payment provisions set in this Contract, shall prior to submission of the second (2nd) Application for Payment , produce for the Owner evidence, in the form of Releases of Lien or Sub-Contractor(s)/suppliers affidavits of payment received, that all Sub-Contractors and suppliers have been paid any sum or sums then due within the time periods so specified. This reporting process shall be repeated following each succeeding payment to the Vendor/Contractor throughout the life of the Contract. A failure on the part of the Vendor/Contractor to provide the releases as required herein shall result in further progress or partial payments being withheld until the releases or payment affidavits are provided.

59.4. Partial Utilization:

59.4.1. Prior to Substantial Completion of all the work, Owner may use or occupy any substantially completed part of the work which has specifically been identified in the Contract Documents, or which Owner, Owner Designated Representative, and Vendor/Contractor agree constitutes a separately functioning and usable part of the work that can be used by Owner for its intended purpose without significant interference with Vendor/Contractor's performance of the remainder of the work, subject to the following conditions.

59.4.1.1. Owner at any time may request Vendor/Contractor in writing to permit Owner to use or occupy any such part of the work which Owner believes to be ready for its intended use and substantially complete. If and when Vendor/Contractor agrees that such part of the work is substantially complete, Vendor/Contractor will certify to Owner and Owner Designated Representative that such part of the work is substantially complete and request Owner Designated Representative to issue a certificate of Substantial Completion for that part of the work.

59.4.1.2. Vendor/Contractor at any time may notify Owner and Owner Designated Representative in writing that Vendor/Contractor considers any such part of the work ready for its intended use and is thus substantially complete and may request Owner Designated Representative to issue a certificate of Substantial Completion for that part of the work.

59.4.1.3. Within a reasonable time after either such request, Owner, Vendor/Contractor, and Owner Designated Representative shall make an inspection of that part of the work to determine its status of completion. If Owner Designated Representative does not consider that part of the work to be substantially complete, Owner Designated Representative will notify Owner and Vendor/Contractor in writing giving the reasons therefore. If Owner Designated Representative considers that part of the work to be substantially complete, the provisions stated herein will apply with respect to certification of Substantial Completion of that part of the work and the division of responsibility in respect thereof and access thereto.

59.4.1.4. No use or occupancy or separate operation of part of the work may occur prior to compliance with the requirements of the Contract Documents regarding property insurance.

59.5. Substantial Completion:

59.5.1. When Vendor/Contractor considers the entire work ready for its intended use Vendor/Contractor shall notify Owner and Owner Designated Representative in writing that the entire work is

substantially complete (except for items specifically listed by Vendor/Contractor as incomplete) and request that the Owner issue a certificate of Substantial Completion.

59.5.2. Promptly after Vendor/Contractor's notification, Owner, Agency, Vendor/Contractor, and Owner Designated Representative shall make a pre-final inspection of the work to determine the status of completion. If Owner Designated Representative does not consider the work substantially complete, Owner Designated Representative will notify Vendor/Contractor in writing giving the reasons therefore.

59.5.3. If the Owner Designated Representative considers the work substantially complete, Owner Designated Representative will deliver to Owner a tentative certificate of Substantial Completion which shall fix the date of Substantial Completion. There shall be attached to the certificate a tentative list of items to be completed or corrected before final payment. Owner shall have seven (7) days after receipt of the tentative certificate during which to make written objection to Owner Designated Representative as to any provisions of the certificate or attached list. If, after considering such objections, Owner Designated Representative concludes that the work is not substantially complete, Owner Designated Representative will within fourteen (14) days after submission of the tentative certificate to Owner notify Vendor/Contractor in writing, stating the reasons therefore. If, after consideration of Owner's objections, Owner Designated Representative considers the work substantially complete, Owner Designated Representative will within said fourteen (14) days execute and deliver to Owner and Vendor/Contractor a definitive certificate of Substantial Completion (with a revised tentative list of items to be completed or corrected) reflecting such changes from the tentative certificate as Owner Designated Representative believes justified after consideration of any objections from Owner.

59.5.4. At the time of delivery of the tentative certificate of Substantial Completion, Owner Designated Representative will deliver to Owner and Vendor/Contractor a written recommendation as to division of responsibilities pending final payment between Owner and Vendor/Contractor with respect to security, operation, safety, and protection of the work, maintenance, heat, utilities, insurance, and warranties and guarantees. Unless Owner and Vendor/Contractor agree otherwise in writing and so inform Owner Designated Representative in writing prior to Owner Designated Representative's issuing the definitive certificate of Substantial Completion, Owner Designated Representative's aforesaid recommendation will be binding on Owner and Vendor/Contractor until final payment.

59.5.5. Owner shall have the right to exclude Vendor/Contractor from the site after the date of Substantial Completion subject to allowing Vendor/Contractor reasonable access to complete or correct items on the tentative list.

59.6. Final Inspection: Upon written notice from Vendor/Contractor that the entire work or an agreed portion thereof is complete, Owner Designated Representative will promptly make a final inspection with Owner, Agency, and Vendor/Contractor and will notify Vendor/Contractor in writing of all particulars in which this inspection reveals that the work is incomplete or defective. Vendor/Contractor shall immediately take such measures as are necessary to complete such work or remedy such deficiencies.

59.7. Final Payment:

59.7.1. Application for Payment:

59.7.1.1. After Vendor/Contractor has, in the opinion of Owner Designated Representative, satisfactorily completed all corrections identified during the final inspection and has delivered, in accordance with the Contract Documents, all maintenance and operating instructions, schedules, guarantees, bonds, certificates or other evidence of insurance certificates of inspection, marked-up record documents, and other documents, Vendor/Contractor may make application for final payment following the procedure for progress payments.

59.7.1.2. The final Application for Payment shall be accompanied (except as previously delivered) by:

59.7.1.2.1. All documentation called for in the Contract Documents, including but not limited to the evidence of insurance required by Paragraph 41;

59.7.1.2.2. Consent of the surety, if any, to final payment;

59.7.1.2.3. A list of all claims against Owner that Vendor/Contractor believes are unsettled; and

59.7.1.2.4. Complete and legally effective releases or waivers (satisfactory to Owner) of all lien rights arising out of or liens filed in connection with the work.

59.7.1.3. In lieu of the releases or waivers of liens specified in Paragraph 59.7.1.2.4 and as approved by Owner, Vendor/Contractor may furnish receipts or releases in full and an affidavit of Vendor/Contractor that: (i) the releases and receipts include all labor, services, material, and equipment for which a lien could be filed; and (ii) all payrolls, material and equipment bills, and other indebtedness connected with the work for which Owner or Owner's property might in any way be responsible have been paid or otherwise satisfied. If any Sub-Contractor or supplier fails to furnish such a release or receipt in full, Vendor/Contractor may furnish a bond or other collateral satisfactory to Owner to indemnify Owner against any lien.

59.7.2. Owner Designated Representative's Review of Application and Acceptance:

59.7.2.1. If, on the basis of Owner Designated Representative's observation of the work during construction and final inspection, and Owner Designated Representative's review of the final Application for Payment and accompanying documentation as required by the Contract Documents, Owner Designated Representative is satisfied that the work has been completed and Vendor/Contractor's other obligations under the Contract Documents have been fulfilled, Owner Designated Representative will, within ten (10) days after receipt of the final Application for Payment, indicate in writing Owner Designated Representative's recommendation of payment and present the Application for Payment to Owner for payment. At the same time Owner Designated Representative will also give written notice to Owner and Vendor/Contractor that the work is acceptable to the provisions as described in Paragraph 59.7. Otherwise, Owner Designated Representative will return the Application for Payment to Vendor/Contractor, indicating in writing the reasons for refusing to recommend final payment, in which case Vendor/Contractor shall make the necessary corrections and resubmit the Application for Payment.

59.7.3. Payment Becomes Due: After the presentation to Owner of the Application for Payment and accompanying documentation to include all of the required federal and state submittals, the Owner will, within the time periods established by applicable provisions of the Florida Prompt Payment Act, Part VII, Ch. 218.735, F.S. (current version), pay the Vendor/Contractor the amount recommended by Owner Designated Representative, less any sum Owner is entitled to set off against Owner Designated Representative's recommendation, including but not limited to liquidated damages.

59.8. Final Completion Delayed: If, through no fault of Vendor/Contractor, final completion of the work is significantly delayed, and if Owner Designated Representative so confirms, Owner shall, upon receipt of Vendor/Contractor's final Application for Payment (for work fully completed and accepted) and recommendation of Owner Designated Representative, and without terminating the Contract, make payment of the balance due for that portion of the work fully completed and accepted. If the remaining balance to be held by Owner for work not fully completed or corrected is less than the retainage stipulated in the Agreement, and if bonds have been furnished as required in Paragraph 17, the written consent of the surety to the payment of the balance due for that portion of the work fully completed and accepted shall be submitted by Vendor/Contractor to Owner Designated Representative with the Application for such payment. Such payment shall be made under the terms and conditions governing final payment, except that

it shall not constitute a waiver of claims. The remaining balance of any sum included in the final Application for Payment but held by Owner for work not fully completed and accepted will become due when the work is fully completed and accepted.

59.9. Waiver of Claims: The making and acceptance of final payment will constitute:

59.9.1. A waiver of all claims by Owner against Vendor/Contractor, except claims arising from unsettled Liens, from defective work appearing after final inspection pursuant to Paragraph 58.6, from failure to comply with the Contract Documents or the terms of any special guarantees specified therein, or from Vendor/Contractor's continuing obligations under the Contract Documents; and

59.9.2. A waiver of all claims by Vendor/Contractor against Owner other than those previously made in accordance with the requirements herein and expressly acknowledged by Owner in writing as still unsettled.

59.10. Vendor/Contractor's Continuing Obligation: The Vendor/Contractor's obligation to perform the work and complete the work in accordance with the Contract Documents shall be absolute. Neither approval of any progress or final payment by the County, the issuance of Certificate of Completion, any payment by the County to the Vendor/Contractor under the Contract Documents, any use or occupancy of the work or any part thereof by the County, any act of acceptance by the County, any failure to do so, nor any correction of defective work by the County shall constitute an acceptance of work not in accordance with the Contract Documents.

59.11. Contract Closeout:

59.11.1. Pre-final and Final Inspections:

59.11.1.1. Upon completion of work, Vendor/Contractor shall submit written certification that the Contract Documents have been reviewed, the work has been inspected by the Vendor/Contractor, and that the work is substantially complete in accordance with the Contract Document and ready for Engineer/Owner Designated Representative's inspection.

59.11.1.2. At this time the representatives of the Vendor/Contractor, Engineer/Owner Designated Representative's and Owner shall make a pre-final/substantial completion inspection with reasonable promptness. If the work is complete or defective, Engineer/Owner Designated Representative will notify the Contractor to remedy these deficiencies by insurance of a pre-final punch-list.

59.11.1.3. Upon written notification from the Vendor/Contractor of substantial complete of the pre-final punch list items, the Engineer/Owner Designated Representative will coordinate the re-inspection of the work by conducting a final inspection. Representatives of the Contract, Engineer, and Owner Designated Representative shall be present for the final inspection.

59.11.1.4. Vendor/Contractor shall submit the final signed and sealed As-Built drawings ten (10) days prior to the final inspection and provide all other submittals to the Engineer/Owner Designated Representative's that are required.

59.11.2. Project Record Documents: The Vendor/Contractor shall maintain on site, one (1) set of the following record documents; recording actual revisions of the work commensurate with the construction progress:

59.11.2.1. Contract Drawings
59.11.2.2. Specifications
59.11.2.3. Addenda
59.11.2.4. Change Orders and other modification to the Contract
59.11.2.5. Reviewed (and approved) Shop Drawings & Product Data
59.11.2.6. Permits

59.11.3. Closeout Submittals: When the Engineer/Owner Designated Representative's has determined that the work is acceptable under the Contract Documents, and the Contract is fully performed, the Vendor/Contractor shall prepare and submit his final Applicable for Payment to the Engineer/Owner Designated Representative's with the following:

59.11.3.1. Contractor's Lien Waiver in the full amount of the Contract Sum.

59.11.3.2. Lien Waivers from all Sub-Contractors and material suppliers who have furnished for the work under Contract with the Contactor or Sub-Contractor. The lien waivers shall be in the full amount of the Contract involved.

59.11.3.3. Consent of Surety to final payment.

59.11.3.4. Evidence of compliance with governing authorities.

59.11.3.5. Certifications of inspections from all required agencies and departments, as needed.

59.11.3.6. Warranties and Maintenance Bond.

59.11.3.7. Confirmation from Florida Department of Environmental Protection the National Pollution Discharge Elimination System Notice of Termination (NOT) has been filed.

59.11.3.8. Any outstanding documentation and/or reports necessary to insure compliance with FDOT requirements.

59.11.3.9. As-Built documents prepared in accordance with the Contract Documents and signed and sealed by a professional Surveyor and Mapper, registered in the State of Florida and all other requirements as set forth in the Contract Documents.

60. TERMINATION AND SUSPENSION OF WORK:

60.1. Termination for Default:

60.1.1. The County may, by written notice to the Vendor/Contractor, terminate this Contract for default in whole or in part (delivery orders, if applicable) if the Vendor/Contractor fails to:

60.1.1.1. Provide products or services that comply with the specifications herein or fails to meet the County's performance standards.

60.1.1.2. Deliver the supplies or to perform the services within the time specified in this Contract or any extension.

60.1.1.3. Make progress so as to endanger performance of this Contract.

60.1.1.4. Perform any of the other provisions of this Contract.

60.1.2. Prior to termination for default, the County will provide adequate written notice to the (Vendor/Contractor/consultant) through the Chief Procurement Officer, Purchasing and Contracts, affording him/her the opportunity to cure the deficiencies or to submit a specific plan to resolve the deficiencies within ten (10) days (or the period specified in the notice) after receipt of the notice. Failure to adequately cure the deficiency shall result in termination action. Such termination may also result in suspension or debarment of the Vendor/Contractor in accordance with the County's Procurement Ordinance. The Vendor/Contractor and its sureties (if any) shall be liable for any damage to the County resulting from the Vendor/Contractor's default of the Contract. This liability includes any increased costs incurred by the County in completing Contract performance.

60.1.3. In the event of termination by the County for any cause, the Vendor/Contractor will have, in no event, any claim against the County for lost profits or compensation for lost opportunities. After a receipt of a Termination Notice and except as otherwise directed by the County the Vendor/Contractor shall:

60.1.3.1. Stop work on the date and to the extent specified.

60.1.3.2. Terminate and settle all orders and Sub-Contracts relating to the performance of the terminated work.

60.1.3.3. Transfer all work in process, completed work, and other materials related to the terminated work as directed by the County.

60.1.3.4. Continue and complete all parts of that work that have not been terminated.

60.1.4. If the Vendor/Contractor's failure to perform the Contract arises from causes beyond the control and without the fault or negligence of the Vendor/Contractor, the Contract shall not be terminated for default. Examples of such causes include (1) acts of God or the public enemy, (2) acts of a government in its sovereign capacity, (3) fires, (4) floods, (5) epidemics, (6) strikes and (7) unusually severe weather.

60.2. Termination for Convenience: The County, by written notice, may terminate this Contract, in whole or in part, when it is in the County's interest. If this Contract is terminated, the County shall be liable only for goods or services delivered and accepted. The County Notice of Termination may provide the Vendor/Contractor thirty (30) days prior notice before it becomes effective. A termination for convenience may apply to individual delivery orders, purchase orders or to the Contract in its entirety.

60.3. Vendor/Contractor May Stop Work or Terminate:

60.3.1. If, through no act or fault of Vendor/Contractor, (i) the work is suspended for more than ninety (90) consecutive days by Owner or under an order of court or other public authority, or (ii) Engineer fails to act on any Application for Payment within thirty (30) days after it is submitted, or (iii) Owner fails for thirty (30) days to pay Vendor/Contractor any sum finally determined to be due, then Vendor/Contractor may, upon seven (7) days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the Contract and recover from Owner.

60.3.2. In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within thirty (30) days after it is submitted, or Owner has failed for thirty (30) days to pay Vendor/Contractor any sum finally determined to be due, Vendor/Contractor may, seven (7) days after written notice to Owner and Engineer, stop the work until payment is made of all such amounts due Vendor/Contractor, including interest thereon. The provisions of this Paragraph are not intended to preclude Vendor/Contractor from making a claim as described in Paragraph 55.5 for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Vendor/Contractor's stopping the work as permitted by this Paragraph.

60.4. Owner May Suspend Work: Owner may suspend work at any time and without cause, for a period of not more than ninety (90) consecutive days by notice in writing to Vendor/Contractor and Engineer which will fix the date on which work will be resumed. Vendor/Contractor shall resume the work on the date so fixed. Vendor/Contractor shall be granted an adjustment in the Contract Price or an extension of the Contract Times, or both, directly attributable to any such suspension if Vendor/Contractor makes a claim therefore as provided in Paragraph 55.5.

60.5. Owner May Terminate for Cause**:**

60.5.1. The occurrence of any one (1) or more of the following events will justify termination for cause:

60.5.1.1. Vendor/Contractor's persistent failure to perform the work in accordance with the Contract Documents (including, but not limited to, failure to supply sufficient skilled workers or suitable materials or equipment or failure to adhere to the Progress Schedule established under Paragraph 45.1.2.1 as adjusted from time to time pursuant to Paragraph 51.3);

60.5.1.2. Vendor/Contractor's disregard of laws or regulations of any public body having jurisdiction;

60.5.1.3. Vendor/Contractor's disregard of the authority of Engineer; or

60.5.1.4. Vendor/Contractor's violation in any substantial way of any provisions of the Contract Documents.

60.5.2. If one (1) or more of the events identified in Paragraph 60.5.1 occur, Owner may, after giving Vendor/Contractor (and surety) seven (7) days written notice of its intent to terminate the services of Vendor/Contractor:

60.5.2.1. In exercising the rights and remedies under Paragraph 58.9, Owner shall proceed expeditiously. In connection with such corrective or remedial action, Owner may exclude Vendor/Contractor from all or part of the site (without liability to Vendor/Contractor for trespass or conversion), take possession of all or part of the work and suspend Vendor/Contractor's services related thereto, take possession of Vendor/Contractor's tools, appliances, construction equipment and machinery at the site, and incorporate in the work all materials and equipment stored at the site or for which Owner has paid Vendor/Contractor but which are stored elsewhere. Vendor/Contractor shall allow Owner, Owner's representatives, agents and employees, Owner's other Vendor/Contractors, and Engineer and Engineer's consultants access to the site to enable Owner to exercise the rights and remedies under Paragraph 58.9.

60.5.2.2. Complete the work as Owner may deem expedient.

60.5.3. If Owner proceeds as provided in Paragraph 60.5.2 above, Vendor/Contractor shall not be entitled to receive any further payment until the work is completed. If the unpaid balance of the Contract Price exceeds all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or arbitration or other dispute resolution costs) sustained by Owner arising out of or relating to completing the work, such excess will be paid to Vendor/Contractor. If such claims, costs, losses, and damages exceed such unpaid balance, Vendor/Contractor shall pay the difference to Owner. Such claims, costs, losses, and damages incurred by Owner will be reviewed by Engineer as to their reasonableness and, when so approved by Engineer, incorporated in a Change Order. When exercising any rights or remedies under this Paragraph Owner shall not be required to obtain the lowest price for the work performed.

60.5.4. Notwithstanding Paragraphs 60.5.2 and 60.5.3, Vendor/Contractor's services will not be terminated if Vendor/Contractor begins within seven (7) days of receipt of notice of intent to terminate to correct its failure to perform and proceeds diligently to cure such failure within no more than thirty (30) days of receipt of said notice.

60.5.5. Where Vendor/Contractor's services have been so terminated by Owner, the termination will not affect any rights or remedies of Owner against Vendor/Contractor then existing or which may thereafter accrue. Any retention or payment of moneys due Vendor/Contractor by Owner will not release Vendor/Contractor from liability.

60.5.6. If and to the extent that Vendor/Contractor has provided a performance bond under the provisions of Paragraph 17, the termination procedures of that bond shall supersede the provisions of Paragraphs 60.5.2 and 60.5.3.

60.6. Litigation:

60.6.1. Should the Owner be temporarily prohibited or enjoined from proceeding with the work herein contemplated, the Vendor/Contractor shall not be entitled to any claim or damages, or otherwise, nor may the Vendor/Contractor withdraw from the Contract except by and with the consent of the Owner. The Vendor/Contractor shall, however, be entitled to an extension of time for completion of the work equal to the time of such interruption or delay as determined and certified by the Owner Designated Representative.

60.6.2. If the Owner is permanently prohibited or enjoined from proceeding with the work herein contemplated, the Owner may terminate this Contract and pay the Vendor/Contractor a sum equal to all expenses legitimately incurred by him in connection with this work, plus ten percent (10%) of such expenses, less an amount equal to the sum of all partial payments previously made to the Vendor/Contractor. The sum thus computed shall be paid to the Vendor/Contractor within thirty (30) days after the Owner shall have terminated this Contract and the payment of said sum shall be payment in full for any and all liquidated damages for the termination of this Contract and shall constitute full settlement of all claims in connection with this Contract.

61. DISPUTE RESOLUTION:

61.1. Owner and Vendor/Contractor may mutually request mediation of any claim submitted to the Owner for a decision as provided in Paragraph 55.5 before such decision becomes final and binding. The mediation will be governed by the Construction Industry Mediation Rules of the American Arbitration Association in effect as of the effective date of the Agreement. The request for mediation shall be submitted in writing to the American Arbitration Association. Timely submission of the request shall stay the effect as described in Paragraph 55.5.5.

61.2. Owner and Vendor/Contractor shall participate in the mediation process in good faith. The process hall be concluded within sixty (60) days of filing of the request. The date of termination of the mediation shall be determined by application of the mediation rules referenced above.

61.3. If the claim is not resolved by mediation, Chief Procurement Officer's action or denial pursuant to Paragraph 55.5.3 or 55.5.4 shall become final and binding thirty (30) days after termination of the mediation unless, within that time period, Owner or Vendor/Contractor:

61.3.1. Agrees with the other party to submit the claim to another dispute resolution process, or

61.3.2. Gives written notice to the other party of their intent to submit the claim to a court of competent jurisdiction.

62. MISCELLANEOUS:

62.1. Giving Notice:

62.1.1. Whenever any provision of the Contract Documents requires the giving of written notice, it will be deemed to have been validly given if:

62.1.1.1. Delivered in person to the individual or to a member of the firm or to an officer of the corporation for whom it is intended, or

62.1.1.2. Delivered at or sent by registered or certified mail, postage prepaid, to the last business address known to the giver of the notice.

62.2. Computation of Times: When any period of time is referred to in the Contract Documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or on a day made a legal holiday by the law of the applicable jurisdiction, such day will be omitted from the computation.

62.3. Cumulative Remedies: The duties and obligations imposed by these Contract Documents and the rights and remedies available hereunder to the parties hereto are in addition to, and are not to be construed in

any way as a limitation of, any rights and remedies available to any or all of them which are otherwise imposed or available by laws or regulations, by special warranty or guarantee, or by other provisions of the Contract Documents. The provisions of this Paragraph will be as effective as if repeated specifically in the Contract Documents in connection with each particular duty, obligation, right, and remedy to which they apply.

62.4. Survival of Obligations: All representations, indemnifications, warranties, and guarantees made in, required by, or given in accordance with the Contract Documents, as well as all continuing obligations indicated in the Contract Documents, will survive final payment, completion, and acceptance of the work or termination or completion of the Contract or termination of the services of Vendor/Contractor.

62.5. Headings: Article and Paragraph headings are inserted for convenience only and do not constitute parts of these Contract Documents.

62.6. Specification and Drawings Furnished by the Owner: All specifications, drawings and copies thereof furnished by the Owner shall remain its property. They shall not be used on another project and, with the exception of those sets which have been signed in connection with the execution of the Agreement, shall be returned to the Owner upon completion of the project.

62.7. Laws and Ordinances: The Contract Documents shall be governed by the laws of the State of Florida and the ordinances of Hernando County.

62.8. Vehicle Licensing: All prime Vendor/Contractors, including their subs, must obtain a temporary vehicle license for each and every out-of-state vehicle, personal or business (including trailers) that will be operating on-site. The cost shall be borne by the Vendor/Contractor. You must present evidence of title to the Tax Collector's Office to obtain the required temporary licenses.

62.9. Handicapped Non-discrimination: The Vendor/Contractor will not discriminate against any employee or applicant for employment because he or she is handicapped in regards to any position for which the employee or applicant for employment is qualified.

63. OTHER WORK AT THE SITE:

63.1. Related Work at Site:

63.1.1. Owner may perform other work related to the project at the site with Owner's employees, or via other direct Contracts therefore, or have other work performed by utility owners. If such other work is not noted in the Contract Documents, then:

63.1.1.1. Written notice thereof will be given to Vendor/Contractor prior to starting any such other work; and

63.1.1.2. If Owner and Vendor/Contractor are unable to agree on entitlement to or on the amount or extent, if any, of any adjustment in the Contract Price or Contract Times that should be allowed as a result of such other work, a claim may be made therefore as provided in Paragraph 55.5.

63.1.2. Vendor/Contractor shall afford other Vendor/Contractors who are a party to such a direct Contract, each utility owner and Owner, if Owner is performing other work with Owner's employees, proper and safe access to the site, a reasonable opportunity for the introduction and storage of materials and equipment and the execution of such other work and shall properly coordinate the work with theirs. Vendor/Contractor shall do all cutting, fitting, and patching of the work that may be required to properly connect or otherwise make its several parts come together and properly integrate with such other work. Vendor/Contractor shall not endanger any work of others by cutting, excavating, or otherwise altering their work and will only cut or alter their work with the written consent of Owner Designated Representative and the others whose work will be affected. The duties and responsibilities of Vendor/Contractor under this Paragraph are for the benefit of such utility owners and other Vendor/Contractors to the extent that there are comparable provisions for the benefit of Vendor/Contractor in said direct Contracts between Owner and such utility owners and other Vendor/Contractors.

63.1.3. If the proper execution or results of any part of Vendor/Contractor's work depends upon work performed by others under Paragraph 63, Vendor/Contractor shall inspect such other work and promptly report to Owner Designated Representative in writing any delays, defects, or deficiencies in such other work that render it unavailable or unsuitable for the proper execution and results of Vendor/Contractor's work. Vendor/Contractor's failure to so report will constitute an acceptance of such other work as fit and proper for integration with Vendor/Contractor's work except for latent defects and deficiencies in such other work.

63.2. Coordination:

63.2.1. If Owner intends to Contract with others for the performance of other work on the project at the site, the following will be set forth in the Contract Documents:

63.2.1.1. The individual or entity who will have authority and responsibility for coordination of the activities among the various Vendor/Contractors will be identified;

63.2.1.2. The specific matters to be covered by such authority and responsibility will be itemized; and

63.2.2. Unless otherwise provided in the Contract Documents, Owner shall have sole authority and responsibility for such coordination.

64. MATERIAL SAFETY DATA SHEETS:

64.1. In accordance with Florida Emergency Planning and Community Right-to-Know Act, Chapter 252, Part II, Florida Statutes (Current Edition), it is the seller's duty to advise Hernando County if a product is a listed toxic substance and to provide a material safety data sheet (MSDS) at the time of delivery. Vendor/Contractors must comply with this procedure along with the Federal Emergency Planning and Community Right-to-Know Act (42 U.S.C. Ch 116 (Current Edition)) and the Federal Hazard Communications Standards (29CFR sec.1910.1200) all other applicable laws.

65. TRENCH SAFETY ACT:

65.1. Bidder shall be solely responsible for complying with the Florida Trench Safety Act as established under 553.60 through 553.64, Florida Statutes (current version), and under the OSHA excavation safety standards as established under 29 CFR 1926.650 (sub-part P) as amended. All costs associated with complying with these requirements shall be included in the Bid. The Trench Safety Act Compliance Form attached in Section VIII, Attachment 11, must be submitted with the Bid.

66. SCRUTINIZED COMPANIES Pursuant to Florida Statute 287.135 And 215.473 (Current Edition):

66.1. Vendor/Contractor must certify that the company is not participating in a boycott of Israel. Vendor/Contractor must also certify that Vendor/Contractor is not on the Scrutinized Companies that Boycott Israel list, not on the Scrutinized Companies with Activities in Sudan list, and not on the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector list, or has been engaged in business operations in Cuba or Syria. Subject to limited exceptions provided in state law, the County will not Contract for the provision of goods or services with any scrutinized company referred to above. Vendor/Contractor must submit the certification form included as an Attachment to this Solicitation. Submitting a false certification shall be deemed a material breach of Contract. The County shall provide notice, in writing, to the Vendor/Contractor of the County's determination concerning the false certification. The Vendor/Contractor shall have five (5) days from receipt of notice to refute the false certification allegation. If such false certification is discovered during the active Contract term, the Vendor/Contractor shall have ninety (90) days following receipt of the notice to respond in writing and demonstrate that the determination of false certification was made in error. If the Vendor/Contractor does not demonstrate that the County's determination of false certification was made in error, then the County shall have the right to terminate the Contract and seek civil remedies pursuant to Section 287.135, Florida Statutes (Current Edition), as amended from time to time.

SECTION V - SUPPLEMENTARY CONDITIONS FOR FEDERAL/STATE REQUIREMENTS

Not Applicable

SECTION VI - SCOPE AND SPECIFICATIONS

67. SCOPE OF WORK:

67.1. The Vendor/Contractor will supply all materials, labor, and equipment in order to accomplish the construction of Fire Station No. 5, as described in the specifications and construction plans showing the proposed improvements in Hernando County, Florida.

68. PROJECT DESCRIPTION:

68.1. This project consists of the construction of a new 11,602 square foot fire station located in Hernando County, FL. Building work includes exterior and interior finishes, equipment, electrical systems, mechanical systems, fire protection, traffic signalization, septic system and plumbing. Site work includes new exterior signage, new sidewalks, asphalt, concrete driveway, parking, retaining wall, septic drain field, site storm water drainage, wildlife management, environmental management and landscape improvements. The structure is composed of concrete slabs on grade, structural brick walls, stucco on concrete masonry unit walls, interior metal stud framing, and TPO roofing on steel joists over metal deck.

68.2. It will be the Vendor/Contractor's responsibility to provide an acceptable MOT plan at the Pre-Construction meeting along with a chart showing the project schedule.

68.3. The Vendor/Contractor shall comply with all applicable OSHA workplace safety requirements and shall accomplish the work in a manner providing for the safety of their equipment and workers and for the safety of the general public.

69. LOCATION OF THE WORK:

69.1. The work to be performed in this Contract will be performed on 9252 Spring Hill Drive, in Hernando County, Florida.

70. GENERAL REQUIREMENTS AND TECHNICAL SPECIFICATIONS:

70.1. Refer to Section X, Exhibit A for General Requirements and Technical Specifications.

71. SURVEY CONTROL:

71.1. Vendor/Contractor will furnish all surveys and construction stakeouts unless otherwise specified. The Vendor/Contractor will provide horizontal control and bench marks or elevations for vertical control. The Vendor/Contractor shall furnish, free of charge, all stakes, all templates, and other materials necessary for marking and maintaining points and lines given. The Vendor/Contractor shall be held responsible for the preservation of all stakes and markers, and if the stakes or markers are destroyed or disturbed, the cost of replacing them shall be charged against, and shall be deducted from the payment for the work. The Vendor/Contractor shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

72. TRAFFIC CONTROL:

72.1. The Vendor/Contractor shall be responsible for installing, operating, and maintaining all traffic control associated with the project, including detours, advance warnings, channelization, or other features, both at the immediate work site and at outlaying points as detailed on the construction plans or as referenced by the FDOT indexes.

72.2. Vendor/Contractor shall prepare a detailed traffic control plan designed to accomplish the level of performance outlined in the scope of work, and incorporating the methods and criteria contained in the Manual on Uniform Traffic Control Devices published by the U.S. Department of Transportation and adopted as amended by the FDOT. This plan must be approved in writing by the Engineer.

72.3. The Engineer may inspect and monitor the traffic control scheme and devices of the Vendor/Contractor and shall, through the County's Inspector assigned to the project, make known his requirements for any

alterations and adjustments to the control plan or devices. The Vendor/Contractor shall take direction only as appropriately expressed by the Inspector or Engineer.

END OF SECTION VI - THE REMAINDER OF PAGE INTENTIONALLY LEFT BLANK

SECTION VII - BID FORM

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

The Vendor/Contractor shall provide all labor and other resources necessary to provide the supplies, equipment and/or services in strict accordance with the specifications defined in this Solicitation for the amounts specified in this Bid Form, inclusive of overhead, profit and any other costs.

Vendor/Contractor is to understand that the total Bid price is based on the estimated quantities indicated as follows and will control in awarding the Contract as provided in the Solicitation Instructions. It is further understood that the quantities stated in the Bid Form for various items are estimated only and may be increased or decreased as provided in the Contract.

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
1	GENERAL REQUIREMENTS				
1.1	Contractor General Conditions	LS	1		
1.2	Contractor General OH&P	LS	1		
1.3	Contractor Insurance & Bonds	LS	1		
1.4	Estimate Contingency	LS	1		
2	EXISTING CONDITIONS				
2.1	Asbestos Remediation - N.I.C.			NA	NA
3	CONCRETE				
3.1	Footings	CY	80		
3.2	Slab on Grade -8" w/rebar	CY	143		
3.3	Slab on Grade - 4" w/mesh	CY	83		
3.4	Pilasters	CY	3		
3.5	PIP Columns	CY	11		
3.6	Tie Beams	CY	22		
3.7	PIP Beams	CY	4		
4	MASONRY				
4.1	Regular 8" Block	BLK	10,206		
4.2	VFC	CY	58		
4.3	Structural Brick 8"	BLK	3,068		
4.4	Block Spray Foam Insulation	BLK	11,365		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
5	METALS				
5.1	Structural Steel Columns	TN	2.0		
5.2	Structural Steel Beams	TN	4.6		
5.3	Steel Joist - Std	TN	12.1		
5.4	Steel Roof Deck	SF	15,095		
5.5	Misc. Steel	LS	1		
5.6	Steel Bollards	EA	16		
6	WOOD / PLASTIC / COMPOSITES/ ROUGH CARPENTRY WORK				
6.1	Rough Blocking	SF	10,800		
6.2	F.R. Plywood	SF	256		
	Millwork Cabinets, Pl Laminate				
6.3	Wardrobe lockers w/stor above	LF	72		
6.4	Wall cabinet above desk	LF	70		
6.5	Built-in desk	LF	74		
6.6	Kitchen base	LF	6		
6.7	Kitchen storage	LF	12		
6.8	Kitchen wall	LF	27		
6.9	Kitchen Island	LF	16		
6.10	Vanity counter	LF	18		
6.11	Built-in desk countertop	LF	54		
6.12	Wall cabinets	LF	24		
6.13	Laundry base	LF	24		
	COUNTERTOPS				
6.14	Solid surface - Quartz	SF	63		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
7	THERMAL & MOISTURE PROTECTION				
7.1	TPO at low roof	SF	6,442		
7.2	TPO at high roof	SF	8,653		
7.3	Alum Coping/Flashing	LF	414		
7.4	Alum Fascia	LF	403		
7.5	Scuppers	EA	8		
7.6	Sealants	SF	10,800		
8	OPENINGS				
8.1	Hollow Metal Doors/Frames	EA	3		
8.2	Ext FBC HM dr/fr/hdw - sin	EA	8		
8.3	Int HM dr/fr/hdw - sin	EA	27		
8.4	Int HM fr - sin	EA	3		
	WOOD DOORS/FRAMES				
8.5	Int WD SC dr/hdw - sin	EA	27		
8.6	Int WD SC dr/fr/hdw - pocket	EA	2		
8.7	Int WD SC dr/fr/hdw - bi-pass	PR	10		
8.8	Access panels	LS	1		
	ENTRANCES/STOREFRONTS				
8.9	Impact ResistantLevel "E"	SF	1,043		
8.10	Impact ResistantLevel "E" drs - sin	EA	2		
8.11	Int Storefront	SF	108		
	OH DOORS				
8.12	Impact Rollup drs	SF	1,568		
8.13	Alum Breakmetal	SF	242		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
9	FINISHES				
9.1	Stucco on masonry	SF	6,367		
9.2	Stucco Soffit, lath/stl fr	SF	1,527		
	METAL STUDS/GYP. BOARD				
9.3	Furring/insulation/gyp bd 1s	SF	3,507		
9.4	Metal studs/Gyp. Bd. 2s	SF	7,508		
9.5	Wall insulation	SF	2,640		
	FLOOR FINISHES				
9.6	Tile - Porcelan	SF	558		
9.7	Epoxy	SF	1,095		
9.8	LVT plank	SF	735		
9.9	Carpet	SF	2,487		
9.10	Rubber	SF	400		
9.11	Sealed Concrete	SF	5,270		
9.12	Tile Base	LF	66		
9.13	Vinyl Base	LF	2,413		
	WALL FINISHES				
9.14	Tile walls	528	528		
9.15	Paint block	3,498	3,498		
9.16	Paint gyp bd	18,522	18,522		
9.17	Paint stucco	7,894	7,894		
9.18	Seal brick	2,920	2,920		
9.19	Paint frs	38	38		
9.20	Paint drs	11	11		
9.21	Stain drs	27	27		
9.22	Painted structure	6,291	6,291		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
	CEILING FINISHES				
9.23	Gyp. Bd. Suspended, ptd.	SF	1,119		
9.24	Gyp. Bd. Mositure, ptd	SF	144		
9.25	ACT 2x2 washable	SF	3,025		
9.26	ACT 2x2 moisture, washable	SF	1,587		
10	SPECIALTIES				
10.1	Toilet Accessories	EA	62		
10.2	Room Signage	EA	38		
10.3	Ext Signage	LS	1		
10.4	FE Cabinets EX1	EA	4		
	WINDOW SHADES				
10.5	Roller Shades	SF	70		
10.6	Roller Shades - Blackout	SF	44		
10.7	Walkoff Carpet Mat	SF	40		
11	SPECIALTY EQUIPMENT				
11.1	E02 Gear Lockers	LF	56		
11.2	E09 Extractor	EA	1		
11.3	E11 Ice Machine	EA	2		
11.4	E13 HD Washer	EA	1		
11.5	E14 HD Dryer	EA	1		
11.6	E15 Com Range 36"	EA	1		
11.7	E16 Ansul Hood	EA	1		
11.8	E17 Dishwasher	EA	1		
11.9	E18 Microwave/Convection	EA	1		
11.10	E19 Refrigerator	EA	3		
11.11	Wall mtd TV bracket	EA	1		
11.12	Recessed entry mat	SF	42		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
12	FURNISHINGS				
12.1	By Owner	NA	NA	NA	NA
13	SPECIAL CONSTRUCTION				
13.1	Bird Deterrent System - Allowance				$15,000.00
21	FIRE SUPPRESSION SYSTEM				
21.1	Ordinary Hazard Group 1	SF	4,800		
21.2	Light Hazard	SF	6,000		
22	PLUMBING				
22.1	Fixtures	EA	27		
22.2	EWC	EA	1		
22.3	HWH - Gas w/pump	EA	1		
22.4	Hose Bibb	EA	5		
22.5	Floor drains	EA	8		
22.6	Roof drains	EA	3		
22.7	Eyewash	EA	1		
22.8	Equip. connection	EA	1		
22.9	Linear Trench drain	LF	184		
22.10	Gas Piping	LS	1		
22.11	Laundry Trench Drain w/Lint Trap	EA	1		
23	HVAC				
23.1	Split sys Heat Pumps – 12 Ton	EA	1		
23.2	Outdoor Air unit – 5 Ton	EA	1		
23.3	Unit Heaters - Gas	EA	4		
23.4	Sidewall Exhaust Fans	EA	2		
23.5	Wall Louvers	EA	40		
23.6	Kitchen Exhaust/Makeup air	EA	1		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
23.7	G90 Glav Ductwork	LBS	5,500		
23.8	Ductwork Insulation	SF	4,675		
23.9	Air Devices	SF	5,500		
23.10	HVAC Controls, T-stats	LS	1		
23.11	HVAC T&B	LS	1		
23.12	HVAC Commissioning	LS	1		
26	ELECTRICAL				
26.1	Primary Conduit	LF	100		
26.2	M.E./C.T.E./MDP	LS	1		
26.3	Distribution Power	SF	10,800		
26.4	Lighting LED	SF	10,800		
26.5	Lighting Controls	SF	10,800		
26.6	Fire Alarm sys	SF	10,800		
26.7	Data/Telcom Conduit	SF	10,800		
26.8	Voice/Data	SF	10,800		
26.9	A/V & Security	SF	10,800		
26.10	Generator - Allowance	LS	1		$8500.00
26.11	ATS	EA	1		
31	EARTHWORK				
31.1	Tree Protection	LF	100		
31.2	Siltation Control	LF	900		
31.3	Clear Site, Rough Grade	SF	56,000		
31.4	Backfill Bldg Pad, borrowfill	CY	833		
31.5	Final Grade	SF	50,000		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal.

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
32	EXTERIOR IMPROVEMENTS				
32.1	Conc paving, 12:6 at OH Drs	SY	221		
32.2	Asphalt Paving, HD	SY	1,414		
32.3	Asphalt Paving, STD	SY	1,335		
32.4	Conc Curb & Gutter	LF	1,365		
32.5	Conc sidewalk	SF	4,726		
32.6	FDOT Asphalt Paving, 12:8:3:1	SY	249		
32.7	Traffic Markings	LS	1		
32.8	Dumpster pad/enclosure	LS	1		
32.9	Flag Poles	EA	2		
32.10	Monument Sign - Allowance	LS	1		
32.11	Landscape/Irrigation	LS	1		
32.12	Hardiboard fence	SF	504		
33	UTILITIES				
	Fire Water				
33.1	Water Line Tap	LS	1		
33.2	6" PVC water line	LF	220		
33.3	DDCBP	EA	1		
33.4	Fire Hydrant	EA	1		
33.5	FDC	EA	1		
	Domestic Water				
33.6	RPZ	EA	1		
33.7	1" Water line	LF	110		
	Sanitary				
33.8	Sanitary Line Tap	EA	1		
33.9	6" PVC sanitary line	LF	110		

Company Name

Authorized Signature

This document must be completed and returned with your Submittal

SECTION VII - BID FORM (Continued)

BID FORM

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
33.10	Grease Interceptor	EA	1		
33.11	Oil/Water Interceptor, 1500gal	EA	1		
	Gas				
33.12	Gas Line Tap	EA	1		
33.13	Steel Gas pipe	LF	110		
	Storm Drainage				
33.14	Tie into existing sys - Allowance	LS	1		

TOTAL BASE BID: _____

TOTAL BASE BID (in words): _____ **DOLLARS**

ALTERNATE BID ITEM:

ITEM NO.	DESCRIPTION	UNIT	QTY	UNIT PRICE	AMOUNT
	Single Sloped metal high roof	LS	1		

TOTAL ALTERNATE BID ITEM: _____

TOTAL ALTERNATE BID ITEM (in words): _____ **DOLLARS**

_____ _____

Company Name Authorized Signature

This document must be completed and returned with your Submittal

SECTION VII - BID FORM Continued

BID SUBMISSION

FOR

ITB NO. 21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

The Board of County Commissioners
Hernando County, Florida

The undersigned, hereinafter called "Bidder", having visited the site of the proposed project and familiarized himself with the local conditions, nature and extent of the work, and having examined carefully the Agreement Form, General Conditions, Special Conditions, Supplementary Conditions for Federal/State Requirements, Plans and Specifications and other Contract Documents, with the Bond Requirements herein, proposed to furnish all labor, materials, equipment and other necessary items, facilities and services for the proper execution and completion of the:

CONSTRUCTION OF FIRE STATION NO. 5

in full accordance with the drawings and specifications prepared in accordance with your Advertisement for Bids, Instruction to Bidders, Agreement and all other documents related thereto on file in the Office of the Hernando County Purchasing and Contracts Department and if awarded the Contract, to complete said work within the time limits specified for their Bid price.

COMPANY NAME	CONTACT PERSON (Name) (Title)
MAILING ADDRESS	NAME (Print)
CITY, STATE AND ZIP CODE	TELEPHONE NO. – FAX NO. - EMAIL ADDRESS
AUTHORIZED SIGNATURE	

Inquiries regarding this Invitation for Bid may be directed to Diane Kafrissen, Purchasing Agent II, at telephone number 352-754-4020 or email purchasing@hernandocounty.us with a copy to Dkafrissen@hernandocounty.us .

IMPORTANT NOTE: When completing your Bid, do not attach any forms which may contain terms and conditions that conflict with those listed in the County's Bid document(s). Inclusion of additional terms and conditions such as those which may be on your company's standard forms shall result in your Bid being declared non-responsive as these changes will be considered a counteroffer to the County's Bid.

This document must be completed and returned with your Submittal.

PROPOSAL ONE (1)

TO HERNANDO COUNTY, FLORIDA for

_____

_____

_____

and doing such other work incidental thereto, all in accordance with the Contract documents, marked

_____

Every Bidder must take notice of the fact that even though his proposal be accepted and the documents signed by the Bidder to whom an award is made and by those officials authorized to do so on behalf of Hernando County, Florida, that no such award or signing shall be considered a binding Contract without a certificate from the Finance Director that funds are available to cover the cost of the work to be done, or without the approval of the County Attorney as to the form and legality of the Contract and all the pertinent documents relating thereto having been approved by said County Attorney; and such Bidder is hereby charged with this notice.

The signer of the Proposal, as Bidder, also declares that the only person, persons, company or parties interested in this Proposal, are named in the Proposal, that he has carefully examined the Advertisement of Bid, Solicitation Instructions, Contract Specifications, Plans, Supplementary Conditions for Federal/State Requirements, General Conditions, Special Conditions, Special Provisions and Contract Bond, that he or his representative has made such investigation as is necessary to determine the character and extent of the work and he proposes and agrees that if the Proposal be accepted, he will Contract with Hernando County, Florida in the form of Contract hereto annexed, to provide the necessary labor, materials, machinery, equipment, tools or apparatus, do all the work required to complete the Contract within the time mentioned in the Contract Documents according to the requirements of Hernando County, Florida, as herein and hereinafter set forth, and furnish the required surety bonds for the following prices to wit:

PROPOSAL TWO (2)

If the foregoing Proposal shall be accepted by Hernando County, Florida, and the undersigned shall fail to execute a satisfactory Contract as stated in the Advertisement herein attached, then the County may, at its option, determine that the undersigned has abandoned the Contract, and thereupon this Proposal shall be null and void, and the certified check or bond accompanying this Proposal, shall be forfeited to and become the property of Hernando County, Florida, and the full amount of said check shall be retained by the County, or if the Proposal Bond be given, the full amount of such bond shall be paid to the County as stipulated for liquidated damages; otherwise, the bond or certified check accompanying this Proposal, or the amount of said check, shall be returned to the undersigned as specified herein.

Attached hereto is a bond or certified check on _____Bank,

for the sum of: _____ ($_____).

The full names and residences of all persons and parties interested in the foregoing Bid are as follows:

(If Corporation, give the names and addresses of the President and Secretary. If firm or partnership, the names and addresses of the members or partners. The Bidder shall list not only his name, but also the name of any person with whom Bidder has any type of Agreement whereby such person's improvements, enrichment, employment of possible benefit, whether Sub-Contractor, materialman, agent, supplier, or employer, is contingent upon the award of the Contract to the Bidder).

NAMES:	ADDRESSES:
_____	_____
_____	_____
_____	_____

Signature of Bidder

_____

(The Bidder must indicate whether a Corporation, Partnership, Company or Individual)

PROPOSAL THREE (3)

The person signing shall, in his own handwriting, sign the Principal's name, his own name and his title. Where the person signing for a corporation is other than the President or Vice-President, he must, by affidavit, show his authority to bind the Corporation.

By:_____ Title:_____

Business Address of Bidder: _____

City/State/Zip: _____

Dated at: _____, this _____ day of _____ A.D., 20____.

SECTION VIII
REQUIRED FORMS AND CERTIFICATIONS WITH BID SUBMISSION

SECTION VIII
ATTACHMENT 1

STATEMENT OF NO BID

If you do not intend to BID on this requirement, please return this form immediately to:

Hernando County
Purchasing and Contracts Department
15470 Flight Path Dr.
Brooksville, FL 34604

We, the undersigned, have declined to submit a proposal on: _____

_____

Reason:

_____ Specifications too tight, geared toward one (1) brand or manufacturer (explain below)

_____ Insufficient time to respond.

_____ Specifications unclear (explain below)

_____ We do not offer this product/services.

_____ Our present schedule does not permit us to perform.

_____ Unable to meet specifications or provide services.

Remarks:

_____

_____

We understand that if this Statement of No Bid is not executed and returned, our name may be deleted from the list of qualified Bidders.

COMPANY NAME:

_____

ADDRESS:

_____

_____

PHONE: _____

SIGNATURE: _____

TITLE: _____

SECTION VIII
ATTACHMENT 2

DRUG FREE WORKPLACE CERTIFICATE

I, the undersigned, in accordance with Florida Statute 287.087 (current version), hereby certify that,
(print or type name of firm) _____

- Publishes a written statement notifying that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Workplace named above, and specifying actions that will be taken against violations of such prohibition.
- Informs employees about the dangers of drug abuse in the workplace, the firm's policy of maintaining a drug free working environment, and available drug counseling, rehabilitation, and employee assistance programs, and the penalties that may be imposed upon employees for drug use violations.
- Gives each employee engaged in providing commodities or Contractual services that are under proposal a copy of the statement specified above.
- Notifies the employees that as a condition of working on the commodities or Contractual services that are under proposal, the employee will abide by the terms of the statement and will notify the employer of any conviction of, pleas of guilty or nolo contendere to, any violation of Chapter 893, or of any controlled substance law of the State of Florida or the United States, for a violation occurring in the workplace, no later than five (5) days after such conviction, and requires employees to sign copies of such written statement to acknowledge their receipt.
- Imposes a sanction on, or requires the satisfactory participation in, a drug abuse assistance or rehabilitation program, if such is available in the employee's community, by any employee who is so convicted.
- Makes a good faith effort to continue to maintain a drug free workplace through the implementation of the Drug Free Workplace program.
- "As a person authorized to sign this statement, I certify that the above named business, firm or corporation complies fully with the requirements set forth herein".

_____
Authorized Signature

_____
Date Signed

State of: _____

County of: _____
Sworn to and subscribed before me this _____day of _____, 20_____
Personally known _____ or Produced Identification _____
(Specify Type of Identification)

_____
Signature of Notary

My Commission Expires: _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 3

AFFIDAVIT OF NON-COLLUSION AND OF NON-INTEREST OF HERNANDO COUNTY EMPLOYEES

Certification that Vendor/Contractor affirms that the Bid/Proposal presented to the owner is made freely, and without any secret Agreement to commit a fraudulent, deceitful, unlawful or wrongful act of collusion.

_____, * being first duly sworn, deposes and says that he (it) is the Vendor/Contractor in the above Bid/Proposal, that the only person or persons interested in said proposal are named therein; that no officer, employee or agent of the Hernando County Board of County Commissioners (BOCC) or of any other Vendor/Contractor is interested in said Bid/Proposal; and that affiant makes the above Bid/Proposal with no past or present collusion with any other person, firm or corporation.

_____
Affiant

STATE OF _____
COUNTY OF _____

The foregoing instrument was acknowledged before me this_____day of _____, 20___

_____

by _____, who is personally known to me or who has produced
as identification and who did take an oath.

_____

Notary Public: _____
My Commission Expires:_____

*NOTICE: State name of Vendor/Contractor followed by name of authorized individual (and title) that is signing as Affiant. If Vendor/Contractor is an individual, state name of Vendor/Contractor only.

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 4

SWORN STATEMENT PURSUANT TO SECTION 287.133 (3) (a), FLORIDA STATUTES (current version), IN PUBLIC ENTITY CRIMES

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to

County of Hernando

by _____
[print individual's name and title]

for _____
[print name of entity submitting sworn statement]

whose business address is _____

(if applicable) its Federal Employer Identification Number (FEIN) is_____
(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement) : _____.

2. I understand that a "public entity crime" as defined in Paragraph 287.133 (1)(g), Florida Statutes (current version), means a violation of any public entity or with an agency or political subdivision of any other State or of the United States, including, but not limited to, any Proposal or Contract for goods or services to be provided to any public entity or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, or material misrepresentation.
3. I understand that *"convicted"* or *"conviction"* as defined in Paragraph 287.133 (1)(b), Florida Statutes (current version), means a finding of guilt or a conviction of a public entity crime, with or without an adjudication of guilt, in any federal or state trial court of record relating to charges brought by indictment or information after July 1, 1989, as a result of a jury verdict, non-jury trial, or entry of a plea of guilty or nolo contendere.
4. I understand that an *"affiliate"* as defined in Paragraph 287.133 (1)(a), Florida Statutes (current version), means:
   a. A predecessor or successor of a person convicted of a public entity crime; or
   b. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term *"affiliate"* includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one (1) person of shares constituting a controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length Agreement, shall be a prima facie case that one (1) person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding thirty-six (36) months shall be considered an affiliate.
5. I understand that a *"person"* as defined in Paragraph 287.133(1)(e), Florida Statutes (current version), means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding Contract and which Proposals or applies to Proposal on Contracts for the provisions of goods or services let by a public entity, or which otherwise transacts or applies to transact business with a public entity. The term "person" includes those officers,

directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.

6. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement: [indicate which statement applies]

_____Neither the entity submitting this sworn statement, nor any of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, nor any affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989.

_____The entity submitting this sworn statement, or one (1) or more of its officers, directors, executives, partners, shareholders, employees, members, or agents who are active in the management of the entity, or an affiliate of the entity has been charged with and convicted of a public entity crime subsequent to July 1, 1989. However, there has been a subsequent proceeding before a Hearing Officer of the State of Florida, Division of Administrative Hearings and the Final Order entered by the Hearing Officer determined that it was not in the public interest to place the entity submitting this sworn statement on the convicted Vendor/Contractor list [attach a copy of the final order].

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM IS VALID THROUGH DECEMBER 31, OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT I AM REQUIRED TO INFORM THE PUBLIC ENTITY PRIOR TO ENTERING INTO A CONTRACT.

_____

[signature] [date]

STATE OF FLORIDA
COUNTY OF _____

PERSONALLY APPEARED BEFORE ME, the undersigned authority

_____who, after first being
[Name of Individual Signing]
sworn by me, affixed his signature in the space provided above on this

_____ day of _____ ._____

NOTARY PUBLIC

My commission expires: _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 5
AUTHORIZED SIGNATURES/NEGOTIATORS

The Vendor/Contractor represents that the following persons are authorized to sign and/or negotiate Contracts and related documents to which the Vendor/Contractor will be duly bound:

Name	Title	Phone No

(Signature)

(Title)

(Name of Business)

The Vendor/Contractor shall complete and submit the following information with the Bid or proposal:

Type of Organization

_____ Sole Proprietorship _____ Partnership

_____ Joint Venture _____ Corporation

State of Incorporation: _____

Federal I.D. is _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 6

VENDOR/CONTRACTOR INFORMATION

In addition to General conditions, your BID/PROPOSAL may be disqualified if the following Vendor/Contractor information is not returned with your BID/PROPOSAL.

Vendor/Contractor is:
( ) Corporation
( ) Partnership
( ) Sole Proprietorship
( ) Other _____ (Explain)

Federal Employer Identification Number: _____
Please attach your completed W-9 Form
PAYMENT WILL NOT BE MADE UNTIL A COMPLETED W9 HAS BEEN RECEIVED.

Firm Name: _____

Mailing Address: _____

City_____State_____Zip_____

Telephone No. _____ Fax No. _____

Web Address: _____EMail:_____

Commodity or Service Supply: _____

If remittance address is different from the mailing address so indicate below.

Firm Name: _____

Mailing Address: _____

City_____State_____Zip_____

An ACH electronic payment method is offered as an alternative to a payment by physical check.
( ) Please check this box if you accept the ACH electronic payment method. (Recommended and Preferred)

Signature: _____

Name & Title Printed: _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 7
LOCAL VENDOR AFFIDAVIT OF ELIGIBILITY

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted to

HERNANDO COUNTY BOARD OF COUNTY COMMISSIONERS

by _____
[Print individual's name and title]

for _____
[Print name of Company/Individual submitting sworn statement]

Whose business address is _____

(If applicable) its Federal Employer Identification Number (FEIN) is _____

(If the entity has no FEIN, include the Social Security Number of the individual signing this Sworn statement) : .

2. **LOCAL PREFERENCE ELIGIBILITY**

A. Vendor/Individual has been in business in Hernando County for a minimum of twelve (12) months prior to date of Bid or Quote? _____ YES _____NO

B. Proof of Real Property Tax Submitted with Affidavit: YES _____ NO _____

C. Copy of Florida Division of Corporations Annual Report Submitted with Affidavit: YES ____ NO _____

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE HERNANDO COUNTY PURCHASING AND CONTRACTS FOR THE PUBLIC ENTITY IDENTIFIED IN PARAGRAPH ONE (1) ABOVE IS FOR THAT PUBLIC ENTITY ONLY AND, THAT THIS FORM SHALL BE SUBMITTED WITH EACH BID OR QUOTE SUBMITTED TO HERNANDO COUNTY.

_____
[Signature]

_____
[Date]

STATE OF FLORIDA
COUNTY OF _____

PERSONALLY APPEARED BEFORE ME, the undersigned authority _____ who, after first being Sworn by me, affixed his signature in the space provided above on this _____ Day of _____, 20____.

_____
NOTARY PUBLIC

My commission expires: _____

Personally Known _____ or Produced Identification _____
Type of Identification Produced _____

SECTION VIII
ATTACHMENT 8

HERNANDO COUNTY
E-VERIFY CERTIFICATION

Bid/Contract No: _____

Financial Project No(s): _____

Project Description: _____

_____

Vendor/Contractor acknowledges and agrees to the following:

Vendor/Contractor shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of:

1. All persons employed by the Vendor/Contractor during the term of the Contract to perform employment duties within Florida; and
2. All persons, including Sub-Contractors, assigned by the Vendor/Contractor to perform work pursuant to the Contract with the Department.

Company/Firm: _____

Authorized Signature: _____

Print Name: _____

Title: _____

Date: _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 9

CONSTRUCTION CONTRACTOR QUALIFICATION SUBMITTAL PACKAGE REQUIREMENTS

A. REFERENCES FOR BIDDER:

Bidder must provide a minimum of two (2) references. Required format for references is provided at the end of this attachment. References must be individuals that can be readily contacted and have first-hand knowledge of the Bidder's performance on the specific project performed by the Bidder. Each reference project must meet the following criteria:

- Project at substantial completion or completed within the last seven (7) years.
- Constructed value of at least $3,961,988.00.
- Similar in size and scope to the Construction of Fire Station No. 5.

B. KEY SUBCONTRACTORS:

Each Bidder must submit with its response a list of Sub-Contractors who will perform the work in each of the following categories ("Key Sub-Contractors"). List the name of the proposed Sub-Contractor, or "Bidder" if the Bidder will perform the work, after each work category:

(1) Fire Station Construction _____
(2) Earth work/Site prep _____
(3) Masonry _____
(4) Concrete Form work _____
(5) Interior Finish and Cabinetry _____
(6) Electrical _____
(7) Plumbing _____
(8) Fire Suppression Systems _____
(9) HVAC _____

C. LICENSES:

The Bidder must be a registered to do business in the State of Florida. All Bidder's and/or Sub-Contractors performing work requiring a specialty license must be licensed in the State of Florida. This includes but is not limited to electrical and mechanical trades, as well as any other earthwork Contractor on the Bidder's team. Provide license information (as required in Paragraph 27) below for Bidder and all Sub-Contractors identified herein.

Classification Issuing Government License Issue Date Number

_____
_____
_____
_____
_____
_____
_____

D. ORGANIZATION CHART:

Bidder must provide an Organization Chart showing Bidder's Team identifying specific responsibilities of Bidder and Sub-Contractors.

ATTACHMENT 9 Continued

E. PROJECT MANAGER AND SUPERINTENDENT QUALIFICATIONS:

Bidder must provide resumes of Project Manager and Superintendent listing qualifications, experience, education and training. The Project Manager and Superintendent must have adequate experience, generally considered as a working project manager/ superintendent on a minimum of two projects, similar in size and scope to the Construction of Fire Station No. 5, within the past seven (7) years.

F. BIDDER/KEY SUBCONTRACTOR SPECIFIC QUALIFICATIONS:

Bidder must demonstrate Bidder's/Key Sub-Contractor's experience and expertise in the tasks provided below and at the minimum identified criteria. Specific projects, locations and Contractor who performed work must be provided.

1) Document prior experience in construction of Fire Stations.

_____

_____

_____

This document should be completed and returned with your Submittal.

THE REMAINDER OF THIS PAGE LEFT BLANK INTENTIONALLY.

ATTACHMENT 9 Continued

REFERENCE 1

Reference Business/Owner Name	
Reference Contact Person	
Reference Address	
Reference Phone No.	
Reference Email Address	
Project Name	
Project Location	
Contractor Project Manager	
Site Superintendent	
Contract Amount	
Date Project Commenced	
Date of Substantial Completion	
Date of Final Completion	
Description of Work Performed	

REFERENCE 2

Reference Business/Owner Name	
Reference Contact Person	
Reference Address	
Reference Phone No.	
Reference Email Address	
Project Name	
Project Location	
Contractor Project Manager	
Site Superintendent	
Contract Amount	
Date Project Commenced	
Date of Substantial Completion	
Date of Final Completion	
Description of Work Performed	

ATTACHMENT 9 Continued

REFERENCE 3

Reference Business/Owner Name	
Reference Contact Person	
Reference Address	
Reference Phone No.	
Reference Email Address	
Project Name	
Project Location	
Contractor Project Manager	
Site Superintendent	
Contract Amount	
Date Project Commenced	
Date of Substantial Completion	
Date of Final Completion	
Description of Work Performed	

Experience shall be related to successfully completed projects within the last seven (7) years (i.e. the project must have been Substantially Complete within seven (7) years of the due date of this ITB. Only projects that are complete or substantially complete as of the Bid due date will be considered).

I certify that the qualifications questionnaire information is true and correct to the best of my knowledge:

Company _____

By _____

Name _____

Signature _____

Address _____Phone _____

Date_____

This document should be completed and returned with your Submittal.

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SECTION VIII
ATTACHMENT 10

VENDOR/CONTRACTOR'S LICENSE

**PROVIDE A COPY OF THE CONTRACTOR'S LICENSE(S)
AS STATED IN PARAGRAPH 27**

SECTION VIII
ATTACHMENT 11

TRENCH SAFETY ACT COMPLIANCE FORM

1. The Vendor/Contractor acknowledges the existence of the Florida Trench Safety Act at §553.60 through 553.64, Florida Statutes (current version) (hereinafter called the "Act") and the requirements established herein.

2. The Vendor/Contractor further acknowledges that the Act stabled the Federal excavation safety standards set forth at 29 CFR Part 1926, Subpart P as the Interim State standard applicable to this project.

3. The Vendor/Contractor will comply with all applicable trench safety standards, during all phases of the work, if awarded the Contract, and will ensure that all Sub-Contractors will also comply with the Act.

4. The Vendor/Contractor will consider the geotechnical information available from the County, from its own sources and all other relevant information in its design of the trench safety system it will employ on the subject project. The Vendor/Contractor acknowledges that the County is not obligated to provide such information, that Vendor/Contractor is not to rely solely on such information if provided, and that Vendor/Contractor is solely responsible for the selection of the data on which he relies in designing said safety system, as well as for the system itself.

5. The Vendor/Contractor acknowledges that included in the Total Price in the Bid Form are costs for complying with the Florida Trench Safety Act, which is in effect as of October 1, 1990. The undersigned further identifies the costs to be $_____ per lineal foot.

6. The amount in Item 5 herein includes the Trench Safety Compliance Methods and the units of each safety measure. The unit costs and the unit prices are shown solely for the purpose of compliance with the procedural requirements of the Act.

	Trench Safety Compliance Method	Unit (LF, SY)	Quantity	Unit Cost	Extended Cost
A.				$	$
B.				$	$
C.				$	$
D.				$	$
				TOTAL:	

Use additional blank sheets to further itemize if more room is required.

7. Acceptance of the Bid to which this certification and disclosure applies in no way represents that the County or its representatives have evaluated or determined that the above costs are adequate to comply with the applicable trench safety requirements, nor does it in anyway relieve the undersigned of his sole responsibility for complying all applicable safety requirements.

Company: _____

By:_____
Authorized Signature Date

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 12

AFFIDAVIT

(To be filled in and executed if the Vendor/Contractor is a Corporation)

STATE OF FLORIDA]

COUNTY OF HERNANDO]

_____being duly sworn, deposes and says that he is Secretary of

_____, a Corporation organized and existing under and by virtues of the laws of the State of Florida, and having its principal office at:

_____(Address)

Affiant further says that he is familiar with the records, minute books and bylaws of

_____ (Name of Corporation) of the Corporation, is duly authorized to sign _____ (Title) the Bid for _____ for said Corporation by virtues of:

_____

(State whether a provision of bylaws or a Resolution of the Board of Directors. If by Resolution, give date of adoption).

_____

_____
Affiant

Sworn to before me this _____ day of _____, 20_____.

_____
Notary Public

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 13

BID BOND

Any singular reference to Vendor/Contractor, Surety, Owner, or other party shall be considered plural where applicable.

VENDOR/CONTRACTOR (Name and Address):

SURETY (Name and Address of Principal Place of Business):

OWNER:

BOARD OF COUNTY COMMISSIONERS, HERNANDO COUNTY, FLORIDA
15470 Flight Path Dr.,
Brooksville, Florida 34604

BID
Project:

21-C00008/DK CONSTRUCTION OF FIRE STATION NO. 5

SPRING HILL, FLORIDA

BOND
Bond Number:
Date (Not later than Bid due date):
Penal sum _____ _____
(Words) (Figures)

Surety and Vendor/Contractor, intending to be legally bound hereby, subject to the terms printed on the reverse side hereof, do each cause this Bid Bond to be duly executed on its behalf by its authorized officer, agent, or representative.

VENDOR/CONTRACTOR	SURETY
_____ (Seal)	_____ (Seal)
Vendor/Contractor's Name and Corporate Seal	Surety's Name and Corporate Seal
By: _____	By: _____
Signature and Title	Signature and Title (Attach Power of Attorney)
Attest: _____	Attest: _____
Signature and Title	Signature and Title

Note: Above addresses are to be used for giving required notice.

1. Vendor/Contractor and Surety, jointly and severally, bind themselves, their heirs, executors, administrators, successors and assigns to pay to Owner upon default of Vendor/Contractor the penal sum set forth on the face of this Bond. Payment of the penal sum is the extent of Surety's liability.

2. Default of Vendor/Contractor shall occur upon the failure of Vendor/Contractor to deliver within the time required by the Bid Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents.

3. This obligation shall be null and void if:
   3.1. Owner accepts Vendor/Contractor's Bid and Vendor/Contractor delivers within the time required by the Bid Documents (or any extension thereof agreed to in writing by Owner) the executed Agreement required by the Bid Documents and any performance and payment bonds required by the Bid Documents, or
   3.2. All Bids are rejected by Owner, or
   3.3. Owner fails to issue a Notice of Award to Vendor/Contractor within the time specified in the Bid Documents (or any extension thereof agreed to in writing by Vendor/Contractor and, if applicable, consented to by Surety when required by Paragraph 5 hereof).

4. Payment under this Bond will be due and payable upon default by Vendor/Contractor and within thirty (30) calendar days after receipt by Vendor/Contractor and Surety of written notice of default from Owner, which notice will be given with reasonable promptness, identifying this Bond and the Project and including a statement of the amount due.

5. Surety waives notice of any and all defenses based on or arising out of any time extension to issue Notice of Award agreed to in writing by Owner and Vendor/Contractor, provided that the total time for issuing Notice of Award including extensions shall not in the aggregate exceed One Hundred Twenty (120) days from Bid due date without Surety's written consent.

6. No suit or action shall be commenced under this Bond prior to thirty (30) calendar days after the notice of default required in Paragraph 4 above is received by Vendor/Contractor and Surety and in no case later than one (1) year after Bid due date.

7. Any suit or action under this Bond shall be commenced only in a court of competent jurisdiction located in the state in which the Project is located.

8. Notices required hereunder shall be in writing and sent to Vendor/Contractor and Surety at their respective addresses shown on the face of this Bond. Such notices may be sent by personal delivery, commercial courier, or by United States Registered or Certified Mail, return receipt requested, postage pre-paid, and shall be deemed to be effective upon receipt by the party concerned.

9. Surety shall cause to be attached to this Bond a current and effective Power of Attorney evidencing the authority of the officer, agent, or representative who executed this Bond on behalf of Surety to execute, seal, and deliver such Bond and bind the Surety thereby.

10. This Bond is intended to conform to all applicable statutory requirements. Any applicable requirement of any applicable statute that has been omitted from this Bond shall be deemed to be included herein as if set forth at length. If any provision of this Bond conflicts with any applicable statute, then the provision of said statute shall govern and the remainder of this Bond that is not in conflict therewith shall continue in full force and effect.

11. The term "Bid" as used herein includes a Bid, offer, or proposal as applicable.

SECTION VIII
ATTACHMENT 14

VENDOR CERTIFICATION REGARDING SCRUTINIZED COMPANIES

Respondent Vendor Name: _____

Vendor/Contractor FEIN: _____

Vendor/Contractor's Authorized Representative Name and Title:

_____

Address: _____

City: _____ State: _____ Zip: _____

Phone Number: _____

Email Address: _____

Section 287.135 (Current Edition), Florida Statutes, prohibits agencies from Contracting with companies for goods or services of $1,000,000.00 or more, that are on either the Scrutinized Companies with Activities in Sudan list, the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector lists which are created pursuant to s. 215.473 F.S. (Current Edition), or the Scrutinized Companies that Boycott Israel list, created pursuant to s. 215.4725 F.S. (Current Edition), or companies that are engaged in a boycott of Israel or companies engaged in business operations in Cuba or Syria.

As the person authorized to sign on behalf of Respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies with Activities in Sudan list or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector list, or the Scrutinized Companies that Boycott Israel list. I further certify that the company is not engaged in a boycott of Israel. I understand that pursuant to section 287.135 (Current Edition), Florida Statutes, the submission of a false certification may subject company to civil penalties, attorney's fees, and/or costs and does not have business operations in Cuba or Syria.

Certified by: _____

who is authorized to sign on behalf of the above-reference company.

Print Name and Title:

_____

Date: _____

This document should be completed and returned with your Submittal.

SECTION VIII
ATTACHMENT 15

HERNANDO COUNTY EMPLOYMENT DISCLOSURE CERTIFICATION STATEMENT

_____
(date)

Hernando County
Purchasing and Contracts
15470 Flight Path Dr.,
Brooksville, FL 34604

The undersigned certifies that to the best of his/her knowledge:

Is any Officer, Partner, Director, Proprietor, Associate or Member of the Business Entity a former employee of Hernando County within the last two (2) years? No ☐ Yes ☐

Is any Officer, Partner, Director, Proprietor, Associate or Member of the Business Entity a Relative or Member of the Household of a current Hernando County Employee that had or will have any involvement with this Procurement or Contract Authorization?

No ☐ Yes ☐

If the answer to either of the above questions is “Yes”, complete the “Relatives and Former Hernando County Employees - Roles and Signatures” table (Part A and/or Part B, as applicable).

Bidder:

_____ (Email address)

_____ (Address)

_____ (Signature required)

_____ (Phone)

_____ (Print name)

_____ (Fax)

_____ (Print title)

_____ (Federal Taxpayer ID Number)

ATTACHMENT 15 Continued

Relatives and Former Hernando County Employees – Roles and Signatures

Part A: Employees that left Hernando County in the last two years.			
Employee Name/Signature	**Job Performed for Hernando County**	**Current Role with Business Entity**	**Date Left Hernando County**
Name:_____ **Sign:** _____ • **Involved with this Procurement on behalf of Hernando County? No ☐ Yes ☐** • **Involved with Proposal development for this Procurement? No ☐ Yes ☐**			
Name:_____ **Sign:** _____ • **Involved with this Procurement on behalf of Hernando County? No ☐ Yes ☐** • **Involved with Proposal development for this Procurement? No ☐ Yes ☐**			
Name:_____ **Sign:** _____ • **Involved with this Procurement on behalf of Hernando County? No ☐ Yes ☐** • **Involved with Proposal development for this Procurement? No ☐ Yes ☐**			

Part B: Identify Officers, Partners, Directors, Proprietors, Associates or Members of the Business Entity that are Relatives or Members of the Household of Hernando County employees currently working for Hernando County, if Hernando County employee had or will have any involvement with this Procurement of Contract.

Firm Officer, Partner, Director, Proprietor, Associate or Member Name	**Name and Relationship of Relative or Member of Household Employed at Hernando County**	**Role at Hernando County**	**Hernando County employee's Role with this Procurement**

(Make copies of this form as needed to list additional employees.)

SECTION VIII

ATTACHMENT 16

ADDENDUM ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following addenda to the Bid/Request for Proposals (indicate number and date of each):

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

Addendum No. _____ Dated _____

FAILURE TO SUBMIT ACKNOWLEDGEMENT OF ANY ADDENDUM THAT AFFECTS THE PRICING AND/OR SCOPE IS CONSIDERED A MAJOR IRREGULARITY AND MAY BE CAUSE FOR REJECTION OF ANY BID.

_____ _____

Company Name Authorized Signature

VENDOR SURVEY

Please provide information on where you received the knowledge of the Bid/Request for Proposals (mark all that apply):

☐ **BIDNET DIRECT**

☐ **NEWSPAPER**

☐ **PURCHASING AND CONTRACTS ADVERTISEMENT BOARD**

☐ **REFERRED BY:** _____

☐ **OTHER (PLEASE SPECIFY):** _____

This document should be completed and returned with your Submittal.

SECTION IX
CONSTRUCTION AGREEMENT AND REQUIRED DOCUMENTS AFTER AWARD

SECTION IX
ATTACHMENT 17

BOARD OF COUNTY COMMISSIONERS
HERNANDO COUNTY, FLORIDA
SAMPLE CONSTRUCTION AGREEMENT

This Contract, entered into this _____ day of _____, 20____, by and between the Hernando County Board of County Commissioners, hereafter called the COUNTY, and _____, hereinafter called the VENDOR/CONTRACTOR. Owner and Vendor/Contractor, in consideration of the mutual covenants hereinafter set forth, agree as follow:

CONSTRUCTION OF FIRE STATION NO. 5

ITB NO. 21-C00008/DK

SPRING HILL, FLORIDA

ARTICLE 1 – CONTRACT DOCUMENTS

1.01 The Vendor/Contractor shall furnish all labor, equipment and materials and perform the work above described for the amount stated above in strict accordance with the General Conditions, Special Conditions, Supplementary Conditions, Exhibits, Plans, Specifications, and other Contract Documents, all of which are made a part hereof and designated as follows:

1.01.1 The Contract Documents for Bid No. 21-C00008/DK consist of the following:

Solicitation-Offer-Award
(Cover Page)

Advertisement of Bid
(Section I)

Solicitation Instructions
(Section II)

General Conditions
(Section III)

Special Conditions
(Section IV)

Supplementary Conditions for Federal/State Requirements
(Section V) - NA

Scope and Specifications
(Section VI)

Bid Form
(Section VII)

Required Forms and Certifications
(Section VIII)

Construction Agreement and Required Documents After Award
(Section IX)

Reference Documents
(Section X)
Exhibit A – General Requirements and Technical Specifications
Exhibit B – Plans/Drawings

All addenda issued by the County prior to the receipt of Bids and all supplementary drawings issued after award of the Contract become part of the Contract Document.

Amending and Supplementing Contract Documents:

The Contract Documents may be amended to provide for additions, deletions, and revisions in the work or to modify the terms and conditions thereof by Change Order.

The requirements of the Contract Documents may be supplemented, and minor variations and deviations in the work may be authorized, by one (1) or more of the following ways:

1. A Field Order;
2. Engineer's approval of a shop drawing or sample; or
3. Engineer's written interpretation or clarification per the provisions described in the Contract Documents.

In resolving such conflicts, errors and discrepancies, the documents shall be given preference in the following order: Agreement, Specifications, Drawings, Solicitation Instructions. Within the specifications the order of preference shall be as follows: Addenda, General Conditions, Technical Specifications. Figure dimensions on drawings shall govern over scale dimensions, and the detailed drawings shall govern over general drawings. Any work that may reasonably be inferred from the specifications or drawings as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work materials or equipment described in words which so applied have a well-known technical or trade meaning shall be deemed to refer to such recognized standards. In case of conflict the more stringent requirements shall take precedence and govern.

The Vendor/Contractor shall take no advantage of any error or omission in the plans or of any discrepancy between the plans and specifications, and the Engineer shall make such interpretation as may be deemed necessary for the fulfillment of the intent of the plans and specifications as construed by him and his decision shall be final.

All provisions required by law to be inserted in this Contract, whether actually inserted or not.

Exhibits to this Agreement (as follows):

1. Vendor/Contractor's Bid
2. Documentation submitted by Vendor/Contractor after the Notice of Award:

    a. Insurance Certificate
    b. Payment and Performance Bond

1.02 The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:

1. Notice to Proceed
2. Change Order(s)

1.03 The documents listed in the Article are attached to this Agreement (except as expressly noted otherwise).

1.04 There are no Contract Documents other than those listed in this Article

1.05 The Contract Documents may only be amended, modified, or supplemented as stated in Paragraph 55.

ARTICLE 2 - THE ENGINEER

2.01 Engineer in the administration of this Contract and any references to the Engineer or the Professional shall be deemed to mean **Wannemacher Jensen Architects**, for the plans and specifications. **James Billotte, Deputy Fire Chief, Hernando County Fire and Emergency Services** will act as the Owner's representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the work in accordance with their respective scope of work and the Contract Documents.

ARTICLE 3 – CONTRACT TIMES

3.01 Time of the Essence.

3.01.1 All time limits for completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

3.02 Days to Achieve Substantial Completion and Final Payment:

3.02.1 Vendor/Contractor Agrees that the work will be substantially complete within **three hundred (300)** calendar days after the commencement date indicated in the Notice to Proceed and ready for final payment within **three hundred thirty (330)** calendar days after the date indicated on the Notice to Proceed.

3.03 Liquidated Damages:

Vendor/Contractor and Owner agree for each consecutive calendar day that the work remains incomplete after the Contract date established for Substantial Completion and/or Final Completion, the County will retain from the compensation otherwise to be paid to the Vendor/Contractor the sum of **Five Hundred dollars ($500.00)**. This amount is the minimum measure of damages the County will sustain by failure of the Vendor/Contractor to complete all remedial work, correct deficient work, clean up the project and other miscellaneous tasks as required to complete all work specified.

ARTICLE 4 – CONTRACT PRICE

4.01 Owner shall pay Vendor/Contractor for completion of the work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to the Paragraphs below:

4.01.1 For all work other than Unit Price Work, a Lump Sum of:

_____ ($_____)
(words) (figure)

All specific cash allowances are included in the above price and have been computed in accordance with Paragraph 56.2.2.

4.01.2 For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the estimated quantity of that item as indicated in this Paragraph:

As provided in Paragraph 56.3, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Owner Designated Representative as provided in Paragraph 56.3. Unit prices have been computed as provided in Paragraph 56.3.

UNIT PRICE WORK

Item No.	Description	Unit	Estimated Quantity	Unit Price	Total Estimated Price

ESTIMATED TOTAL OF ALL UNIT PRICE WORK $ _____ $(_____)
(use words) (figure)

ARTICLE 5 – PAYMENT PROCEDURES

5.01 Submittal and Processing of Payments:

5.01.1 Vendor/Contractor shall submit Applications for Payment in accordance with Paragraph 59.2.1. Applications for Payment will be processed by Owner Designated Representative as provided in the Contract Documents.

5.02 Progress Payments; Retainage:

5.02.1 Owner shall make progress payments on account of the Contract Price on the basis of Vendor/Contractor's Applications for Payment not later than the time periods established by applicable provisions of the Florida Prompt Payment Act, Part VII, Ch. 218.735, F.S. (current version), during performance of the work as provided in Paragraphs below. All such payments will be measured by the Schedule of Values (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements:

5.02.1.1 Progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Owner Designated Representative may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with the Contract Documents:

5.02.1.1.1 Ninety-five percent (95%) of work completed (with the balance being retainage); and

5.02.1.1.2 Ninety-five percent (95%) of cost of materials and equipment not incorporated in the work (with the balance being retainage).

5.03 Final Payment:

5.03.1 Upon receipt of the final Application for Payment accompanied by Owner Designated Representative's recommendation of payment in accordance with Paragraph 59.7.1, Owner shall pay Vendor/Contractor the remainder of the Contract Price as recommended by Owner Designated Representative, less any sum Owner is entitled to set off against Owner Designated Representative's recommendation, including but not limited to liquidated damages.

5.03.2 Final Payment, constituting the entire unpaid balance of the Contract Sum, shall be paid by the Owner to the Vendor/Contractor when the work has been completed, the Contract fully performed, NPDES – FDEP Notice of Termination (NOT) has been delivered to the Owner Designated Representative and a final Certificate for Payment has been issued by the Owner Designated Representative.

ARTICLE 6 – INTEREST

6.01 All moneys not paid when due shall bear interest at the maximum legal rate.

ARTICLE 7 – VENDOR/CONTRACTOR'S REPRESENTATIONS

7.01 In order to induce Owner to enter into this Agreement Vendor/Contractor makes the following representations:

7.01.1 Vendor/Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bid Documents.

7.01.2 Vendor/Contractor has visited the site and become familiar with and is satisfied as to the general, local, and site conditions that may affect cost, progress, and performance of the work.

7.01.3 Vendor/Contractor is familiar with and is satisfied as to all federal, state, and local laws and regulations that may affect cost, progress, and performance of the work.

7.01.4 Vendor/Contractor does not consider that any further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

7.01.5 Vendor/Contractor is aware of the general nature of work to be performed by Owner and others at the site that relates to the work as indicated in the Contract Documents.

7.01.6 Vendor/Contractor has correlated the information known to Vendor/Contractor, information and observations obtained from visits to the site, reports and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

7.01.7 Vendor/Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Vendor/Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Vendor/Contractor.

7.01.8 The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the work.

ARTICLE 8 – MISCELLANEOUS

8.01 Terms:

8.01.1 Terms used in this Agreement will have the meanings stated in the Contract Documents.

8.02 Assignment of Contract:

8.02.1 No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

8.03 Severability:

8.03.1 Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Vendor/Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

8.04 This Agreement may be executed in several counterparts, each of which shall be an original and all of which shall constitute but one (1) and the same instrument.

ARTICLE 9 – CONTRACT PAYMENT

9.01 The County agrees to pay the Vendor/Contractor for the faithful performance under this Contract for the agreed amount of _____ Dollars ($_____) and is based on the lump sum prices contained herein and subject to additions or deductions as modified.

OWNER: HERNANDO COUNTY BOARD OF COUNTY COMMISSIONERS	VENDOR/CONTRACTOR
By: JOHN ALLOCCO	By:
Title: CHAIRMAN	Title:
[CORPORATE SEAL]	[CORPORATE SEAL]
Attest: Douglas A. Chorvat, Jr.	Attest:
Title: Clerk of Circuit Court & Comptroller	Title:
Address for giving notices:	Address for giving notices:
15470 Flight Path Dr.,	
Brooksville, FL 346014	
	Agent for service of process:
	(If Vendor/Contractor is a corporation or a partnership, attach evidence of authority to sign.)

SECTION IX
ATTACHMENT 18
PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, that _____, hereinafter referred to as the "Vendor/Contractor," as Principal, and _____hereinafter called "Surety," as Surety, are held and firmly bound unto Hernando County, hereinafter referred to as the "County," a Political Subdivision of the State of Florida as Obligee, in the full and just sum of $_____ Dollars, lawful money of the United States of America, to the payment of which sum, well and truly to be made, the Vendor/Contractor and Surety bind themselves, their representatives, and each of their heirs, executors, administrators, successors and assigns, jointly and severely, firmly by these presents.

WHEREAS, the Vendor/Contractor has entered into a certain written Contract with the "County" dated the _____ day of _____, 20____, for the _____, with conditions and provisions as are further described in the aforementioned Contract, which Contract is by reference made a part hereof for the purpose of explaining this bond.

NOW, THEREFORE, THE CONDITION OF THIS OBLIGATION IS such that if Vendor/Contractor shall fully, promptly and faithfully perform said Contract and all obligations thereunder, including all obligations imposed by the Contract documents (which include the Solicitation-Offer-Award (Cover Page), Advertisement of Bid, Solicitation Instruction, General Conditions, Special Conditions, Scope and Specifications, Bid Form, Required Forms and Certifications, Exhibits, Agreement Form, Form(s) of Contract Bond(s), Plans and Specifications and such alterations thereof as may be made as provided for therein) and shall promptly make payments to all claimants for any and all labor and materials used or reasonably required for use or furnished in connection with the performance of said Contract, and shall perform all other covenants and obligations of this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

1. The undersigned shall indemnify and save harmless the County against and from all costs, expenses and damages, including litigation costs and attorney's fees arising out of, or in connection with the neglect, default or want of care or skill, including patent infringement on the part of said Vendor/Contractor, his agents, servants or employees in the execution or performance of said Contract.

2. The undersigned shall promptly make payment to all persons supplying services, labor, materials or supplies used directly or indirectly by said Vendor/Contractor, or any Sub-Contractor or Sub-Contractors, in the prosecution of the work provided for in said Contract.

3. The undersigned agrees to promptly pay the County any difference between the sum to which the Vendor/Contractor would be entitled on the completion of the Contract, and the sum which the County may be obligated to pay for the completion of said work by the Vendor/Contractor or otherwise, including any damages, direct or indirect, or consequential, which the County may sustain by reason of the failure of the Vendor/Contractor to properly and promptly perform and abide by all of the provisions of said Contract.

4. Subject to the County's priority, claimants covered by Section 713.01 of the Florida Statutes (current version) shall have a direct right of action against the Principal and Surety under this obligation, after written notice of the performance of labor or delivery of materials or supplies, and non-payment therefor. Any claimant who seeks to recover against the Principal or Surety under this obligation must also satisfy the notice requirements and time limitations of Section 255.05 of the Florida Statutes (current version).

5. The Vendor/Contractor shall save the County harmless from any and all damages, expenses and costs which may arise by virtue of any defects in said work or materials within a period of one (1) year from the date of initial acceptance of the completed project, if applicable.

Signed and sealed this _____ day of _____, 20____.

VENDOR/CONTRACTOR, AS PRINCIPAL:	SURETY:
_____	_____
Principal Firm Name	Surety Name
By:	By:
_____	_____
Signature (Seal)	Signature (Seal)
_____	_____
Typed Name and Title	Typed Name and Title
WITNESS:	
_____	_____
Signature	Signature
_____	_____
Typed Name and Title	Typed Name and Title

SECTION IX
ATTACHMENT 19

EMERGENCY TELEPHONE NUMBERS

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

The following are the business and home telephone numbers where project key personnel can be reached at all times. In addition, the emergency telephone numbers of other vital agencies are listed:

	BUSINESS NO.:	MOBILE NO.:
VENDOR/CONTRACTOR'S PROJECT MANAGER	( )	( )
VENDOR/CONTRACTORS REPRESENTATIVE	( )	( )
COUNTY/PROJECT MANAGER	( )	( )

OTHER EMERGENCY NUMBERS

SHERIFF'S OFFICE	(352) 754-6850	
FLORIDA HIGHWAY PATROL	(352) 754-6767	
FLORIDA REGIONAL EMS	(352) 754-8991	
BROOKSVILLE FIRE RESCUE	(352) 544-5445	
EAST HERNANDO COUNTY FIRE RESCUE	(352) 540-4350	
NORTHWEST HERNANDO COUNTY FIRE RESCUE	(352) 592-5618	
WITHLACOOCHEE RIVER ELECTRIC	(352) 596-4000	EXT. 3145
DUKE ENERGY	(800) 700-8744	
CHARTER COMMUNICATIONS (FKA: BRIGHT HOUSE CABLE)	(800) 892-0803	
FLORIDA GAS TRANSMISSION	(352) 527-1898	
TECO - PEOPLES GAS	(877) 832-6747	
HERNANDO COUNTY UTILITIES	(352) 754-4037	
HERNANDO COUNTY SCHOOL TRANSPORTATION	(352) 797-7003	
HERNANDO COUNTY TRAFFIC SIGNAL SYSTEM	(352) 754-4064	EXT. 139
DEPARTMENT OF PUBLIC WORKS	(352) 754-4060	
ENGINEERING DIVISION	(352) 754-4062	
FLORIDA DEPARTMENT OF TRANSPORTATION	(352) 797-5700	

SECTION IX
ATTACHMENT 20

HERNANDO COUNTY UTILITY COORDINATION FOR CONSTRUCTION SITES

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

"I hereby certify that the coordination of the locations, connections, and relocations, as needed of all utilities in the project limits, has occurred with the respective utility, County's and/or their official representatives. This certification regards the coordination only at this time and does not reflect actual work performed. Utility verification forms are attached from each respective utility verifying coordination and stating known conflicts. This form shall be completed by the Vendor/Contractor(s) and approved by Hernando County prior to initiating construction."

THERE ARE NO KNOWN UTILITY CONFLICTS AFFECTING THIS PROJECT'S CONSTRUCTION TIME AND/OR COSTS.

THERE ARE NOTED UTILITY CONFLICTS AFFECTING THIS PROJECT'S CONSTRUCTION TIME AND/OR COSTS.

VENDOR/CONTRACTOR INFORMATION

_____ _____
Signature Date

_____
Name and Title

_____
Street or P. O. Box

_____
City State Zip Code

_____ _____
Telephone: Area Code Number Emergency Number

_____ _____
Traffic Sub-Contractor Telephone Emergency Number

_____ _____
Hernando County Approved By: Date

SECTION IX
ATTACHMENT 21

HERNANDO COUNTY UTILITY VERIFICATION FOR CONSTRUCTION SITES

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

"I HEREBY CERTIFY THAT _____ HAS EXAMINED
(Utility Name)
THE PLANS AND CONSTRUCTION LIMITS OF THIS PROJECT. WE KNOW OF NO CONSTRUCTION / UTILITY CONFLICTS WITH OUR FACILITIES AT THIS TIME, UNLESS NOTED BELOW."

_____
UTILITY COMPANY NAME

_____ _____
Signature Date

_____
Name and Title

_____
Street or P. O. Box

_____
City State Zip Code

_____
Telephone Number: Area Code Number

_____
Known Conflict Information

SECTION IX
ATTACHMENT 22

HERNANDO COUNTY MAINTENANCE OF TRAFFIC PLAN FOR CONSTRUCTION SITES

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

"I hereby certify that the Maintenance of Traffic Plan (MOT), as described in the attached construction plans or referenced by Florida Department of Transportation Standard Indexes, has been installed and will be maintained for this construction project. The MOT Plan reflects requirements applicable to protecting motorists and workers around the construction area. The MOT Plan shall be utilized, as applicable, by all Vendor/Contractors on the project. The MOT Plan provides compliance with approved Hernando County and State of Florida MOT Standards. This form shall be completed by the Vendor/Contractor(s) and approved by Hernando County prior to initiating construction."

_____
UTILITY COMPANY NAME

_____ _____
Signature Date

_____
Name and Title

_____
Street or P. O. Box

_____
City State Zip Code

_____
Telephone Number: Area Code Number

_____
Known Conflict Information

SECTION IX
ATTACHMENT 23

STORM WATER POLLUTION PREVENTION PLAN
FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITES

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

"I hereby certify that the Storm Water Pollution Prevention Plan has been received by the undersigned for the construction site described in the Construction Plans. The Storm Water Pollution Prevention Plan reflects requirements applicable to protecting surface water resources in sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by State or local officials. The Plan provides compliance with approved issued permits, erosion and sediment control plans and storm water management plans. I certify, under penalty of law, that the Storm Water Pollution Prevention Plan will be installed and maintained, until all construction activities are complete.

_____
Company Name

_____ _____
Signature Date

_____
Name and Title

_____
Street or P. O. Box

_____
City State Zip Code

_____
Telephone: Area Code Number

SECTION IX
ATTACHMENT 24
UTILITY CONTACT LIST

PROJECT NAME: Construction of Fire Station No. 5

COUNTY PROJECT NO.: 21-C00008/DK

C.E.O. NO.: _____

The following are the contact names and business telephone numbers of utility representatives with infrastructure specifically located in the project limits. Additionally, the telephone numbers of various utilities in Hernando County and other vital agencies are listed:

UTILITY NAME	REPRESENTATIVE	PHONE NUMBER

COUNTY UTILITY NUMBERS

WITHLACOOCHEE RIVER ELECTRIC	(352) 596-4000 EXT. 3145
DUKE ENERGY	(800) 700-8744
CHARTER COMMUNICATIONS (FKA: BRIGHT HOUSE CABLE)	(800) 892-0803
FLORIDA GAS TRANSMISSION	(352) 527-1898
TECO - PEOPLES GAS	(877) 832-6747
HERNANDO COUNTY UTILITIES	(352) 754-4037

OTHER VITAL NUMBERS

SHERIFF'S OFFICE	(352) 754-6850
FLORIDA HIGHWAY PATROL	(352) 754-6767
FLORIDA REGIONAL EMS	(352) 754-8991
BROOKSVILLE FIRE RESCUE	(352) 544-5445
EAST HERNANDO COUNTY FIRE RESCUE	(352) 540-4350
NORTHWEST HERNANDO COUNTY FIRE RESCUE	(352) 592-5618
HERNANDO COUNTY SCHOOL TRANSPORTATION	(352) 797-7003
HERNANDO COUNTY TRAFFIC SIGNAL SYSTEM	(352) 754-4064 EXT. 139
DEPARTMENT OF PUBLIC WORKS	(352) 754-4060
ENGINEERING DIVISION	(352) 754-4062
FLORIDA DEPARTMENT OF TRANSPORTATION	(352) 797-5700

SECTION X
REFERENCE DOCUMENTS

SECTION X
EXHIBIT "A"
PLANS AND DRAWINGS

21-C000008/DK – CONSTRUCTION OF FIRE STATION NO. 5

EXHIBIT "A"

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

BID SET

No.	Description	Date
	PERMIT SET	08/31/20
	REV 1 - COUNTY COMMENTS	10/28/20
	REV 2 - COUNTY COMMENTS	01/15/21
	BID SET	01/27/21

Wannemacher Jensen
Architects, Inc.

180 Mirror Lake Drive North, St. Petersburg,
Florida 33701-3214
AA0002277

STRUCTURAL ENGINEER
MASTER CONSULTING ENGINEERS
5523 W. CYPRESS ST. SUITE 200, TAMPA, FL 33607

MEP & FP ENGINEER
VOLTAIR CONSULTING ENGINEERS
220 W 7TH AVE, TAMPA, FL 33602

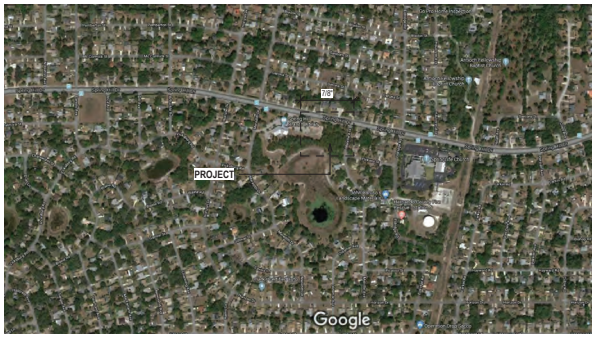
CIVIL ENGINEER
VICKSTROM ENGINEERING SERVICES, INC.
505 20TH AVE N.E., SAINT PETERSBURG, FL 33701

LANDSCAPE ENGINEER
PLACEMAKER DESIGN STUDIO, LLC
3000 GULF TO BAY, SUITE 301, CLEARWATER, FL 33759

TRAFFIC ENGINEER
H.W. LOCHNER, INC.
4350 CYPRESS STREET SUITE 800, TAMPA, FL 33607

SEPTIC SYSTEM ENGINEER
PETER J. MEDICO, P.E.
5331 CAPE LEYTE DRIVE, SARASOTA, FL 34242

SITE LOCATION MAP



PROJECT ADDRESS: 9252 SPRING HILL DRIVE SPRING HILL, FL 34608

LEGAL DESCRIPTION

TRACT "L" OF SPRING HILL UNIT 6 ACCORDING TO THE PLAT THEREOF. RECORDED IN PLAT BOOK 8, PAGES 11 THROUGH 24, INCLUSIVE OF THE PUBLIC RECORDS OF HERNANDO COUNTY, FLORIDA.

FEMA FLOOD MAP

FLOOD ZONE

FEMA FLOOD ZONE: FLOOD ZONE X
BASE FLOOD ELEVATION (BFE): NA FOR ZONE X
LOWEST FFE IN PROPOSED PROJECT: REFER TO CIVIL DRAWINGS

WIND LOADS

RISK CATEGORY (FBC TABLE 1604.5): IV
ULTIMATE DESIGN WIND SPEED: 152 MPH

FLORIDA APPROVED EXTERIOR COMPONENTS & CLADDING PRODUCTS* LISTING

CATEGORY	SUB CATEGORY	MATERIAL	APPLICANT	DESCRIPTION	APPROVAL NUMBER
ROOFING	SINGLE PLY ROOF SYSTEMS	TPO	JOHNS MANVILLE	JM TPO 60 MIL SINGLE PLY ROOFING	FL16758-R15
EXTERIOR DOORS	SWINGING EXTERIOR DOOR ASSEMBLIES	STEEL	SCHLAGE	H-SERIES SINGLE FLUSH OUTSWING	FL12400-R10
EXTERIOR DOORS	SECTIONAL EXTERIOR DOOR ASSEMBLIES	STEEL / GL	RAYNOR	ALUMAVIEW AV 300	FL 21372.1
PANEL WALLS	VINYL SOFFIT	VINYL	ALSIDE	CHARTER OAK PREMIUM VINYL AERATED SOFFIT	FL15272.5
PANEL WALLS	STOREFRONT	ALUMINUM	YKK	AP YHS 50 FI	FL14218.5
DOORS	STOREFRONT	ALUMINUM	YKK	35H	FL16554.2
LOUVERS	PANEL WALLS	ALUMINUM	RUSKIN	EME6625DFL WIND-DRIVEN RAIN RESISTANT STATIONARY LOUVER	FL 22960.1
PANEL WALLS	EXTERIOR FINISH SYSTEM	DENSGLASS	GEORGIA PACIFIC	EXTERIOR WALL SHEATHING	FL2524-R7

* BASIS-OF-DESIGN PRODUCTS: COMPARABLE PRODUCTS BY OTHER MANUFACTURERS MAY BE PROVIDED.

ABBREVIATIONS

A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AV	AUDIO VISUAL
B/W	BETWEEN
BCA	BUILDING CONSTRUCTION AUTHORITY
BLDG	BUILDING
CBU	CEMENTITIOUS BACKER UNIT
CFMF	COLD FORM METAL FRAMING
CJ	CONTROL JOINT / CONSTRUCTION JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONN	CONNECTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CTR	CENTER
DBL	DOUBLE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIFF	DIFFUSER
DIM	DIMENSION
DN	DOWN
DP	DIMENSION POINT
DR	DOOR
DRN	DRAIN
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ELEV	ELEVATION
ELEC	ELECTRICAL
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRICAL WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF (SEE OTHER WORD)
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FEC	FIRE EXTINGUISHER CABINET
FEX	FIRE EXTINGUISHER
FF	FINISH FLOOR
FF&E	FURNITURE, FINISHES & EQUIPMENT
FHC	FIRE HOSE CABINET
FIN	FINISH
FIXT	FIXTURE
FL	FLOOR
FR	FRAME
FT	FEET
FURN	FURNITURE/ FURNISHED
FURR	FURRING
GA	GAUGE / GAGE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GL-xx.	GLASS
GWB	GYPSUM WALLBOARD
HB	HOSE BIBB
HCP	HANDICAPPED
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HC	HANDICAPPED
HR	HOUR
HSS	HOLLOW STRUCTURAL SECTION
HT	HEIGHT
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HW	HOT WATER
IN	INCH
INCL	INCLUDED / INCLUDING
INFO	INFORMATION
INT	INTERIOR
INTERM	INTERMEDIATE
ISA	INTNL SYMBOL OF ACCESSIBILITY
LAV	LAVATORY
LVR	LOUVER
MAINT	MAINTENANCE
MAX	MAXIMUM
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL, PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N/A	NOT APPLICABLE
NC	NOISE CRITERIA
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OPP HD	OPPOSITE HAND
PAV	PAVER
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PR	PAIR
PREFAB	PREFABRICATED
PT	PRESSURE TREATED
PTD	PAINTED
PTN	PARTITION
PTxx	PAINT
QC	QUALITY CONTROL
QTY	QUANTITY
R	RADIUS
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REQ	REQUIRE / REQUIRED
REV	REVISION / REVISED
RM	ROOM
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET/FOOT
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SPKR	SPEAKER
SPR	SPRINKLER
SQ	SQUARE
SS	STAINLESS STEEL
SSK	SERVICE SINK
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRL	STRUCTURAL
SUSP	SUSPENDED
SYMM	SYMMETRICAL
TEL	TELEPHONE OR TELECOM
THK	THICKNESS
THRU	THROUGH
TV	TELEVISION
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UNFIN	UNFINISHED
U.N.O.	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W	WIDE, WIDTH
WI	WITH
WO	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WWF	WELDED WIRE FABRIC
XTR	EXISTING TO REMAIN

TAG LEGEND

ELEMENT TAGS

- Room name 101 — ROOM TAG
- 100/D — DOOR TAG
- 1\ — WINDOW TAG
- ST-X — STOREFRONT TAG
- A.B / 1'-0" — WALL TAG
- XXX — SPECIALTY EQUIPMENT TAG
- 1\ — FLOOR TAG

VIEW TAGS

- Ref / 1 / A101 / Ref / Ref — EXTERIOR ELEVATION
- 1 Ref / Ref / 1 / A101 / Ref / 1 Ref — INTERIOR ELEVATION
- 1 / A101 / SIM — SECTION MARK
- 1 / A101 / SIM — VIEW CALLOUT
- Name / Elevation — LEVEL HEAD
- 1'-0" A.F.F SPOT ELEVATION MARK

ANNOTATION TAGS

- ALIGNMENT TAG — ALIGN
- CSI KEYNOTE TAG — XX-XX
- SPECIFIC NOTE TAG — XXX
- UNITS DESIGNATED WITH MOBILITY FEATURES — AD/A
- UNITS DESIGNATED WITH COMMUNICATION FEATURES — COM

GENERAL NOTES

1. EXISTING ITEMS AND CONDITIONS ARE DEPICTED AND DESCRIBED ON THESE DRAWINGS ACCORDING TO THE BEST AVAILABLE INFORMATION AND SURVEYS. THE ARCHITECT PROVIDES NO ASSURANCE AS TO, AND ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE DEPICTIONS AND DESCRIPTIONS. FIELD VERIFY AND DETERMINE, BY ANY MEANS NECESSARY, THE ACTUAL LOCATION, CONFIGURATION AND CONDITION OF ALL PERTINENT ITEMS, INCLUDING THOSE THAT MAY BE IN CONCEALED LOCATIONS. IF INVESTIGATION DISCOVERS THAT ACTUAL CONDITIONS DIFFER FROM WHAT IS DEPICTED OR DESCRIBED ON THESE DRAWINGS OR IF THE ITEMS AND CONDITIONS THAT ARE TO REMAIN AS PART OF THE FINISHED WORK ARE UNSUITABLE TO SUPPORT OR ACCOMMODATE THE WORK REQUIRED FOR THIS PROJECT, OR DO NOT COMPLY WITH BUILDING CODE REQUIREMENTS OR MEET CONSTRUCTION INDUSTRY STANDARDS, IMMEDIATELY NOTIFY THE ARCHITECT BY RFI AND DO NOT PROCEED WITH THE WORK UNTIL RECEIPT OF SUPPLEMENTAL INSTRUCTIONS FROM THE ARCHITECT.
2. ESTABLISH AREAS AND LIMITS OF CONSTRUCTION ACTIVITY ACCEPTABLE TO THE OWNER AND PROVIDE THE TEMPORARY FACILITIES REQUIRED TO ACCOMPLISH THE WORK INCLUDING; FIELD OFFICE, TOILETS, ELECTRIC SERVICE, SITE ACCESS, PARKING, STORAGE AND CONSTRUCTION STAGING AREAS. PROVIDE TEMPORARY WALKWAYS, DRIVEWAYS, BARRIERS, SIGNS AND ILLUMINATION TO SEPARATE AND PROTECT THE GENERAL PUBLIC FROM THE WORK RELATED ACTIVITIES. PROVIDE ACCESS ROUTES TO AND FROM AREAS OF CONSTRUCTION ACTIVITY FOR CONSTRUCTION PERSONNEL THAT COMPLY WITH ALL OSHA AND OTHER GOVERNMENT SAFETY AND ACCESSIBILITY REQUIREMENTS. ASSUME FULL LIABILITY FOR ANY DAMAGE TO ADJACENT PROPERTIES, DAMAGE TO PERSONAL PROPERTY, INJURY TO PERSONS, ETC. CAUSED BY WORK RELATED ACTIVITIES OR NEGLIGENCE.
3. PROVIDE TEMPORARY SHORING AS REQUIRED TO ADEQUATELY SUPPORT AND RETAIN EXISTING MATERIALS AND CONSTRUCTION AFFECTED BY THE WORK. PROTECT THOSE ITEMS, MATERIALS & FINISHES TO REMAIN. REMOVE ONLY THOSE ITEMS AND MATERIALS NECESSARY TO ACCOMMODATE THE WORK WITH CLEAN, UNIFORM CUTS. FILL AND PATCH REMAINING CONSTRUCTION AS REQUIRED WITH MATERIALS MATCHING THE ADJACENT MATERIALS IN KIND, STRENGTH, AND APPEARANCE SO AS TO FINISH UNIFORMLY WITHOUT TELEGRAPHING DIFFERENCES BETWEEN THE PATCHES AND THE ADJACENT CONSTRUCTION. REPAIR OR REPLACE ANY ITEMS, MATERIALS OR FINISHES DAMAGED BY THE WORK AT NO COST TO THE OWNER.
4. PROVIDE THE ITEMS, PRODUCTS AND FEATURES AS DEPICTED, DESCRIBED AND SPECIFIED ON THE DRAWINGS. IF DISCREPANCIES ARE DISCOVERED ON THE DRAWINGS, NOTIFY THE ARCHITECT BY RFI AND DO NOT PROCEED WITH WORK RELATED TO ITEMS IN QUESTION UNTIL RECEIPT OF SUPPLEMENTAL INSTRUCTIONS FROM THE ARCHITECT. REQUESTS FOR SUBSTITUTIONS MAY BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION. DO NOT MAKE SUBSTITUTIONS WITHOUT THE APPROVAL OF THE ARCHITECT. WHERE A "BASIS-OF-DESIGN" PRODUCT IS SPECIFIED, A COMPARABLE PRODUCT MAY BE PROVIDED, SUBJECT TO COMPLIANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
5. SUBMIT SHOP DRAWINGS, PRODUCT DATA AND SAMPLES TO THE ARCHITECT AND BCA FOR REVIEW AS REQUIRED BY THE CONTRACT DOCUMENTS. DO NOT PROCEED WITH WORK RELATED TO SUBMITTALS MARKED "REJECTED" OR "REVISE AND RESUBMIT" BY THE ARCHITECT OR THE ARCHITECT'S CONSULTANTS. SUBMITTALS MARKED "APPROVED", "NO EXCEPTION TAKEN" OR "MAKE CORRECTIONS NOTED" DO NOT SUPERSEDE THE NEED TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
6. DO NOT SCALE DRAWINGS. THE DIMENSIONS ON THE DRAWINGS GOVERN. WRITTEN NOTES REFERENCING AN ITEM OR FEATURE WITH THE WORD "TYPICAL" (TYP) APPLY TO ALL IDENTICAL ITEMS OR FEATURES INDICATED ELSEWHERE ON THESE DRAWINGS.
7. PROVIDE A FLORIDA PRODUCT APPROVAL ISSUED BY THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION OR A MIAMI-DADE NOTICE OF ACCEPTANCE (NOA) ISSUED BY THE MIAMI-DADE COUNTY GOVERNMENT FOR EACH EXTERIOR COMPONENT AND CLADDING ASSEMBLY CERTIFYING THAT APPROVED TESTING HAS SUFFICIENTLY DEMONSTRATED THAT THE ASSEMBLY AND ITS COMPONENTS, AS DESIGNED AND MANUFACTURED, WILL WITHSTAND THE WIND LOADS AND WIND-BORNE MISSILE IMPACTS IN COMPLIANCE WITH ALL CODE AND JURISDICTIONAL REQUIREMENTS FOR THE PROJECT LOCATION WHEN INSTALLED ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS INCLUDING INSTRUCTIONS THAT MAY BE PROVIDED WITH THE FLORIDA PRODUCT APPROVAL OR NOA DOCUMENTS. PROVIDE THESE DOCUMENTS AS PART OF THE SUBMITTAL FOR EACH OF THESE ITEMS AND ASSEMBLIES FOR BCA APPROVAL.
8. PROVIDE ALL ITEMS AND FEATURES DEPICTED AND DESCRIBED ON THESE DRAWINGS AND OTHER CONTRACT DOCUMENTS SO THEY ARE PROPERLY PLACED, ALIGNED, PLUMB, SECURED, FINISHED AND FUNCTIONING AS INTENDED. PROVIDE FINISHED WORK THAT MEETS OR EXCEEDS CURRENT INDUSTRY STANDARDS FOR QUALITY AND PERFORMANCE. ARRANGE AND CONDUCT INSPECTIONS OF THE FINISHED WORK WITH THE OWNER, THE ARCHITECT, AND THE AUTHORITY HAVING JURISDICTION. APPROVAL OF THE WORK BY THESE OR ANY OTHER PARTY OR AGENCY DOES NOT SUPERSEDE THE NEED TO COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
9. REMOVE CONSTRUCTION DEBRIS, INCLUDING DEMOLISHED MATERIALS, FROM THE SITE AS REQUIRED TO PREVENT ACCUMULATION. TRANSPORT THESE MATERIALS OFF THE SITE IN A MANNER THAT WILL PREVENT SPILLAGE AND LEGALLY DISPOSE OF THESE MATERIALS AT AN EPA APPROVED DISPOSAL OR RECYCLING FACILITY.
10. KEEP COMPLETE AND LEGIBLE SETS OF CONSTRUCTION DOCUMENTS, ADDENDA, SUPPLEMENTAL INSTRUCTIONS, SUPPLEMENTAL DRAWINGS, MEETING NOTES, ETC. TOGETHER AND READILY AVAILABLE IN AN APPROPRIATE LOCATION ON SITE.
11. PROVIDE ONLY 2"x6" NOMINAL MINIMUM PT WOOD BLOCKING USED IN CONCEALED SPACES. NO FIRE RETARDANT TREATED WOOD ALLOWED, UNLESS APPROVED BY BCA.
12. CONCEAL CONDUIT, PIPING, ETC. WITHOUT EXCEPTION. PROVIDE ACCESSIBLE JUNCTION BOXES, VALVES, CLEANOUTS, ETC., AS REQUIRED BY CODE.
13. WHERE POSSIBLE AND BEST PRACTICE, ALIGN THE SEAMS AND EDGES OF BREAK METAL AND FLASHING WITH ADJACENT REVEALS, EDGES OF MATERIAL TRANSITIONS, OR WITH BUILDING DESIGN FEATURES. CONSULT WITH ARCHITECT AS REQUIRED.
14. PER OWNER - CONTRACTOR AGREEMENT, PROJECT TO FOLLOW ALL OSHA STANDARDS AND REQUIREMENTS. INCLUDE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) EXCAVATION SAFETY STANDARD 29 C.F.R., SECTION 1926 630 SUBPART P, WHICH ARE INCORPORATED AS THE STATE STANDARD.
15. ALL CONTRACTORS SHALL INCLUDE IN THEIR BID REFERENCE TO THE TRENCH SAFETY STANDARD, WHERE RELEVANT, AND WRITTEN ASSURANCE THAT THE CONTRACTOR WILL COMPLY WITH CHAPTER 553, PART V TRENCH SAFETY ACT, SECTIONS 553.60 THROUGH 553.64, FLORIDA STATUTES. ALL TRENCH SAFETY SYSTEMS SHALL BE DESIGNED BY THE CONTRACTOR.
16. NEW HOLES IN FLOOR SLAB DUE TO REMOVAL OF FLOOR OUTLETS, CONDUIT OR PIPE SHALL BE FILLED FLUSH WITH FLOOR WITH 3000 PSI CONCRETE AND KEYED TO SLAB WITH STEEL DOWELS. BONDING AGENT SHALL BE APPLIED TO SIDES OF HOLE BEFORE PLACEMENT OF CONCRETE.
17. AT STOREFRONT GLASS OR ANY GLASS WALL, FURNISH AND INSTALL DIAGONAL BRACING ABOVE IN CONCEALED LOCATION (IF EXPOSED, CONFIRM LOCATION SIDE WITH ARCHITECT).
18. REQUESTS FOR SUBSTITUTIONS OF SPECIFIED ITEMS SHALL BE SUBMITTED IN WRITING WITHIN BID PROPOSAL FOR CONSTRUCTION TO THE ARCHITECT, AND WILL BE CONSIDERED ONLY IF THEY PROVIDE BETTER SERVICES, HAVE A MORE ADVANTAGEOUS DELIVERY DATE, OR HAVE A LOWER PRICE PROVIDING A CREDIT TO THE TENANT AND WILL NOT SACRIFICE QUALITY, APPEARANCE OR FUNCTION. UNDER NO CIRCUMSTANCES WILL THE ARCHITECT BE REQUIRED TO PROVE THAT A PRODUCT PROPOSED FOR SUBSTITUTION IS OR IS NOT OF EQUAL QUALITY TO THE SPECIFIED PRODUCT.
19. SHOP DRAWINGS/SUBMITTALS ARE REQUIRED FOR BUT NOT LIMITED TO THE FOLLOWING: MILLWORK, STRUCTURAL/MISCELLANEOUS STEEL, HARDWARE, WOOD AND METAL DOORS, AND EQUIPMENT. SHOP DRAWINGS SHOULD INCLUDE DETAILED FABRICATION AND ERECTION DRAWINGS, SETTING DRAWINGS, AND MATERIAL SCHEDULES. FABRICATION SHALL BEGIN ONLY AFTER ARCHITECT'S REVIEW AND APPROVAL OF SHOP DRAWINGS.

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St. Petersburg, Florida 33701-3214
(727) 822-5566 fax (727) 823-5475
www.wjarc.com
AA0002277

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THE ARCHITECT'S DRAWINGS, PLANS, SPECIFICATIONS, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT. THESE DOCUMENTS ARE NOT TO BE CHANGED OR COPIED IN ANY FORM OR MANNER WHATSOEVER, NOR ARE THEY TO BE ASSIGNED TO ANY THIRD PARTY, WITHOUT FIRST OBTAINING THE EXPRESS WRITTEN PERMISSION AND CONSENT OF THE ARCHITECT. ANY UNAUTHORIZED USE OF THESE DOCUMENTS SHALL BE AT THE SOLE RISK OF THE USER AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO THE ARCHITECT. ALL TITLE RIGHTS IN THE DRAWINGS, PLANS, SPECIFICATIONS, AND IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF SERVICE, ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND NO OTHER PERSON OR ENTITY MAY USE THEM IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT AND SUCH CONSENT SHALL NOT BE EFFECTIVE UNLESS IT IS IN THE FORM OF A WRITTEN CONTRACT THAT IS SIGNED BY THE ARCHITECT.

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

DRAWING LEGEND AND BUILDING DATA

G-101

DRAWING INDEX

SHEET #	SHEET NAME	PERMIT SET	REV 1	REV 2	BID SET
00 TITLE					
G-100	COVER	X			X
01 GENERAL					
G-101	DRAWING LEGEND AND BUILDING DATA	X	X		X
G-102	SHEET INDEX	X	X		X
G-103	CODE ANALYSIS	X			X
G-104	MOUNTING HEIGHTS	X			X
G-105	UL LISTINGS	X			X
03 LIFE SAFETY					
B-101	LEVEL 1 - LIFE SAFETY PLAN	X			X
04 CIVIL					
C1	GENERAL NOTES & SPECIFICATIONS	X			X
C2	EXISTING CONDITIONS / DEMOLITION PLAN	X	X	X	X
C3	SILT & EROSION CONTROL PLAN	X	X	X	X
C4	SILT & EROSION CONTROL DETAILS	X			X
C5	STORMWATER POLLUTION PREVENTION PLAN	X			X
C6	SITE PLAN	X	X	X	X
C7	GRADING AND DRAINAGE PLAN	X	X	X	X
C8	CIVIL DETAILS	X			X
C9	CIVIL DETAILS	X	X		X
C10	STORMTECH DETAILS	X	X		X
C11	UTILITY PLAN	X	X	X	X
C12	UTILITY DETAILS	X	X		X
05 LANDSCAPE					
IR1	IRRIGATION PLAN	X	X	X	X
IR2	IRRIGATION NOTES AND DETAILS	X	X		X
IR3	IRRIGATION DETAILS	X	X		X
L1	LANDSCAPE PLAN	X	X	X	X
L2	PLANTING NOTES	X	X		X
L3	LANDSCAPE DETAILS	X	X		X
06 SEPTIC SYSTEM					
SS-101	SEPTIC SYSTEM SITE PLAN	X			X
SS-102	SEPTIC SYSTEM DETAILS AND CALCULATIONS	X			X
07 ARCHITECTURAL					
A-001	SITE PLAN	X	X	X	X
A-002	SITE PLAN - ENLARGED DETAILS	X	X		X
A-101	GROUND FLOOR PLAN	X	X		X
A-102	HIGH FLOOR PLAN	X			X
A-106	ROOF PLAN	X	X		X
A-110	EOS PLAN	X			X
A-120	DIMENSION PLAN	X	X		X
A-121	HIGH DIMENSION PLAN	X			X
A-201	REFLECTED CEILING PLAN	X	X		X
A-300	EXTERIOR ELEVATIONS	X	X		X
A-301	EXTERIOR ELEVATIONS	X	X		X
A-302	EXTERIOR ELEVATIONS PAINTED	X			X
A-303	EXTERIOR ELEVATIONS PAINTED	X			X
A-310	BUILDING SECTIONS	X	X		X
A-311	BUILDING SECTIONS	X	X		X
A-401	TYP DORM - ENLARGED PLANS AND ELEVATIONS	X	X		X
A-402	MOBILITY DORM - ENLARGED PLANS AND ELEVATIONS	X	X		X
A-403	CAPTAIN'S DORMS ENLARGED PLANS AND ELEVATIONS	X	X		X
A-404	ENLARGED FLOOR PLANS AND ELEVATIONS	X	X		X
A-405	INTERIOR ELEVATIONS	X	X		X
A-406	INTERIOR ELEVATIONS	X	X		X
A-407	ENLARGED FLOOR PLANS AND ELEVATIONS	X	X		X
A-408	ENLARGED FLOOR PLANS AND ELEVATIONS	X	X		X
A-409	ENLARGED FLOOR PLANS AND ELEVATIONS	X	X		X
A-410	INTERIOR ELEVATIONS	X	X		X
A-411	INTERIOR ELEVATIONS	X	X		X
A-420	MILLWORK SECTIONS	X			X
A-620	CEILING DETAILS	X			X
A-700	WALL SECTIONS	X			X
A-701	WALL SECTIONS	X			X
A-702	WALL SECTIONS	X			X
A-703	WALL SECTIONS	X			X
A-704	WALL SECTIONS	X			X
A-721	ENCLOSURE DETAILS	X			X
A-722	ENCLOSURE DETAILS	X	X		X
A-723	ENCLOSURE DETAILS	X			X
A-724	ENCLOSURE DETAILS	X			X
A-725	ENCLOSURE DETAILS	X			X
A-726	INTERIOR DETAILS	X			X
A-800	PARTITION TYPES	X			X
A-801	PARTITION TYPES	X			X
A-802	PARTITION TYPES	X			X
A-803	PARTITION TYPES	X			X
A-804	PARTITION DETAILS	X			X
A-810	DOOR SCHEDULE	X	X		X
A-811	DOOR HARDWARE SCHEDULE	X			X
A-812	DOOR DETAILS	X			X
A-830	STOREFRONT ELEVATIONS	X			X
A-831	STOREFRONT DETAILS	X			X
A-832	STOREFRONT DETAILS	X			X
A-833	STOREFRONT DETAILS	X			X
A-900	EXTERIOR 3D VIEWS	X			X
08 INTERIOR					
ID-101	FINISH PLAN	X	X		X
ID-201	FURNITURE PLAN	X			X
ID-401	INTERIOR DETAILS	X			X
ID-420	INTERIOR SIGNAGE	X			X

DRAWING INDEX

SHEET #	SHEET NAME	PERMIT SET	REV 1	REV 2	BID SET
09 STRUCTURAL					
S-101	GENERAL STRUCTURAL NOTES	X			X
S-102	WIND DESIGN DATA AND LOAD SCHEDULE	X			X
S-201	FOUNDATION PLAN	X			X
S-202	SLAB ON GRADE PLAN	X			X
S-203	LOW ROOF FRAMING PLAN	X	X		X
S-204	HIGH ROOF FRAMING PLAN	X			X
S-301	TYPICAL DETAILS	X			X
S-302	TYPICAL DETAILS	X	X		X
S-303	TYPICAL DETAILS	X			X
S-304	TYPICAL DETAILS	X			X
S-305	TYPICAL DETAILS	X			X
S-401	SECTIONS AND DETAILS	X			X
S-402	SECTIONS AND DETAILS	X			X
S-403	SECTIONS AND DETAILS	X			X
S-404	SECTIONS AND DETAILS	X			X
S-405	SECTIONS AND DETAILS	X			X
S-406	SECTIONS AND DETAILS	X			X
S-501	WALL ELEVATIONS	X			X
S-502	WALL ELEVATIONS	X			X
S-503	WALL ELEVATIONS	X	X		X
S-504	WALL ELEVATIONS	X			X
S-505	WALL ELEVATIONS	X			X
S-601	SCHEDULES	X			X
S-701	3D ISOMETRIC VIEWS	X			X
10 MECHANICAL					
M-000	LEGEND - HVAC	X			X
M-201	LEVEL 1 - FLOOR PLAN - HVAC	X			X
M-202	AIRHAWK FLOOR PLAN	X			X
M-203	ROOF PLAN - HVAC	X			X
M-601	AIR SYSTEM SCHEMATICS - HVAC	X			X
M-701	CONTROLS - HVAC	X			X
M-801	SCHEDULES - HVAC	X			X
M-802	SCHEDULES - HVAC	X			X
M-901	DETAILS - HVAC	X			X
M-902	DETAILS - HVAC	X			X
M-903	DETAILS - HVAC	X			X
11 PLUMBING					
P-000	LEGEND - PLUMBING	X			X
P-100	SITE PLAN - PLUMBING	X			X
P-201	LEVEL 1 - FLOOR PLAN - GRAVITY	X			X
P-203	ROOF PLAN - GRAVITY	X			X
P-301	LEVEL 1 - FLOOR PLAN - PRESSURE	X			X
P-501	RISER DIAGRAM - PRESSURE	X			X
P-502	RISER DIAGRAM - GRAVITY	X			X
P-801	SCHEDULES - PLUMBING	X			X
P-901	DETAILS - PLUMBING	X			X
P-902	DETAILS - PLUMBING	X			X
12 ELECTRICAL					
E-000	LEGEND - ELECTRICAL	X			X
E-100	SITE PLAN - ELECTRICAL	X	X		X
E-201	LEVEL 1 - FLOOR PLAN - POWER	X	X		X
E-202	HIGH PLAN - FLOOR PLAN - POWER	X			X
E-203	ROOF PLAN - ELECTRICAL	X			X
E-204	LEVEL 1 - FLOOR PLAN - ELECTRICAL HVAC	X			X
E-301	LEVEL 1 - FLOOR PLAN - LIGHTING	X	X		X
E-302	HIGH PLAN - FLOOR PLAN - LIGHTING	X			X
E-303	LEVEL 1 - FLOOR PLAN - EMERGENCY LIGHTING	X			X
E-501	RISER DIAGRAM - ELECTRICAL	X	X		X
E-601	PANEL SCHEDULES - ELECTRICAL	X	X		X
E-602	CALCULATIONS - ELECTRICAL	X			X
E-901	DETAILS - ELECTRICAL	X			X
E-902	DETAILS - ELECTRICAL	X			X
13 FIRE PROTECTION					
FP-000	LEGEND - FIRE PROTECTION	X			X
FP-100	SITE PLAN - FIRE PROTECTION	X			X
FP-201	LEVEL 1 - CEILING PLAN - FIRE PROTECTION	X			X
FP-901	DETAILS - FIRE PROTECTION	X			X
14 TECHNOLOGY					
T-000	LEGEND - TECHNOLOGY	X			X
T-100	SITE PLAN - TECHNOLOGY	X			X
T-201	FIRST FLOOR PLAN - TECHNOLOGY	X			X
T-901	DETAILS - TECHNOLOGY	X			X
T-902	DETAILS - TECHNOLOGY	X			X
15 TRAFFIC SIGNALIZATION					
T-1	COVER	X	X	X	X
T-2	SIGNATORY SHEET	X	X		X
T-3	TABULATION OF QUATITIES	X	X	X	X
T-4	GENERAL NOTES AND PAY ITEM NOTES	X	X		X
T-5	SIGNALIZATION PLAN	X	X	X	X
T-6	SIGNING & PAVEMENT MARKINGS PLAN	X	X	X	X
T-7	MAST ARM TABULATION SCHEDULE	X	X		X
T-8	STRUCTURAL DETAILS	X	X		X
16 RETAINING WALL					
W1	TITLE PAGE / KEY PLAN		X		X
W2	WALL ELEVATIONS AND CROSS SECTIONS		X		X
W3	TYPICAL DETAILS		X		X

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HERNANDO COUNTY FIRE STATION #5

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1932

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REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

SHEET INDEX

G-102

CODE ANALYSIS

SCOPE OF WORK

THIS SET OF DOCUMENTS DESCRIBES A NEW 11,602 G.S.F. FIRE STATION INCLUDING: EXTERIOR AND INTERIOR FINISHES, ELECTRICAL SYSTEMS, MECHANICAL SYSTEMS, FIRE PROTECTION, AND PLUMBING, LIMITED SITE WORK INCLUDES NEW SIDEWALKS, ASPHALT,CONCRETE DRIVEWAY, PARKING, DRAINAGE AND LANDSCAPE IMPROVEMENTS. THE STRUCTURE IS COMPOSED OF CONCRETE SLABS ON GRADE, STRUCTURAL BRICK WALLS, STUCCO ON CONCRETE MASONRY UNIT WALLS, INTERIOR METAL STUD FRAMING AND TPO ROOFING ON STEEL ROOF JOISTS OVER METAL DECK.

ABBREVIATIONS

N/A	NOT APPLICABLE AS PART OF THIS PROJECT
AGP	ABOVE GRADE PLAN - STORY
FDVA	FIRE DEPARTMENT VEHICLE ACCESS
FSD	FIRE SEPARATION DISTANCE
AHJ	AUTHORITY HAVING JURISDICTION
OL	OCCUPANT LOAD

APPLICABLE CODES

2017	(A)	FLORIDA BUILDING CODE - BUILDING, 6TH EDITION
2017	(C)	FLORIDA BUILDING CODE - ACCESSIBILITY, 6TH EDITION
2017	(D)	FLORIDA BUILDING CODE - PLUMBING, 6TH EDITION
2017	(E)	FLORIDA BUILDING CODE - ENERGY, 6TH EDITION
2017	(F)	FLORIDA FIRE PREVENTION CODE, 6TH EDITION
2017	(G)	FLORIDA FIRE PREVENTION CODE - LIFE SAFETY, 6TH EDITION
2017	(H)	FLORIDA BUILDING CODE - MECHANICAL, 6TH EDITION
2014	(J)	NATIONAL ELECTRICAL CODE
2017	(K)	FLORIDA BUILDING CODE - FUEL GAS, 6TH EDITION

ALTERATION LEVEL - (B) CH. 5

N/A

THRESHOLD BUILDING - (A) CH. 202

N/A

HIGH RISE BUILDING - (A) CH. 403

N/A

USE AND OCCUPANCY CLASSIFICATION - (A) CH. 3; (F) CH. 6 ; (G) CH. 26 & 42

PRIMARY OCCUPANCY: R-2 / S-2 MIXED USE - SEPARATED

ACCESSORY OCCUPANCY : B

	ADJACENCIES	FIRE SEPARATION - (A) TABLE 508.4, (F) TABLE 6.1.14.4.1
R-2	S-2	1 HR. *SEE EXCEPTION

* EXCEPTIONS HERE
1. TABLE (A) 509 - BIO HAZARD LAUNDRY OVER 100 SQ. FT. SHALL HAVE AUTOMATIC FIRE SPRINKLER SYSTEM

SPECIAL DETAILED REQUIREMENTS BASED ON USE & OCCUPANCY - (A) CH. 4

(A) 406.6 - ENCLOSED PARKING GARAGE

(A) 420.2 - WALL SEPARATION AT SLEEPING UNITS

(A) 420.6 - FIRE ALARM AND SMOKE ALARM

TYPES OF CONSTRUCTION - (A) CH. 6

OCCUPANCY	CONST. TYPE	FIRE-RESISTANCE RATING FOR BUILDING ELEMENTS (TABLE 601)	TYPE 2-B
R2 / S2	2-B	PRIMARY STRUCTURAL FRAME	0
		BEARING WALLS EXTERIOR	0
		BEARING WALLS INTERIOR	0
		NONBEARING WALLS AND PARTITIONS EXTERIOR	0
		NONBEARING WALLS AND PARTITIONS INTERIOR	0
		FLOOR CONSTRUCTION AND SECONDARY MEMBERS	0
		ROOF CONSTRUCTION AND SECONDARY MEMBERS	0

FIRE-RESISTANCE OF EXTERIOR WALLS - (A) TABLE 602

	R-2	S-2
X>30'	0	0

COLUMN PROTECTION - (A) CH. 704.2 : NA

PROTECTION OF THE PRIMARY STRUCTURAL FRAME OTHER THAN COLUMNS - (A) CH. 704.3 : NA

EXTERIOR STRUCTURAL MEMBERS - (A) CH. 704.10: NA

GENERAL BUILDING HEIGHTS AND AREAS - (A) CH. 5

ALLOWABLE HEIGHT, STORIES, AND AREA : 2-B, SPRINKLERED

OCCUPANCY	HEIGHT (FT) (A) TABLE 504.3	STORY (A) TABLE 504.4	AREA (SF) (A) 506.2
R-2	75'	5	64,000
S-2	75'	4	104,000

ACTUAL HEIGHT, STORIES AND AREA

OCCUPANCY	HEIGHT (FT)	STORY	AREA (SF)
R-2	21' 5"	1	5,527
S-2	21' 5"	1	6,075

FIRE AND SMOKE PROTECTION FEATURES - (A) CH. 7

EXTERIOR WALLS - (A) CH. 705

PROJECTIONS: SHALL NOT EXTEND CLOSER TO FSD THAN (A) TABLE 705.2: NA

FIRE-RESISTANCE RATINGS - (A) CH. 705.5: NA

MAXIMUM AREA OF EXTERIOR WALL BASED ON FIRE SEPARATION DISTANCE (A) TABLE 705.8:

GREATER THAN 30' - NO LIMIT

VERTICAL SEPARATION OF OPENINGS (A) CH. 705.8.5: NA

FIRE WALLS (A) CH. 706: NA

FIRE BARRIERS (A) CH. 707, (G) 8.3: 1 HR

FIRE PARTITIONS (A) CH. 708: 1/2 HR AT SLEEPING UNITS

SMOKE BARRIERS (A) CH. 709, (G) 8.5: NA

SMOKE PARTITIONS (A) CH. 710, (G) 8.4, 26.3.5.1: REQUIREMENT MET BY PROVIDING FIRE PARTITIONS @ SLEEPING UNITS

FLOOR AND ROOF ASSEMBLIES (A) CH. 711: NA

VERTICAL OPENINGS (A) CH. 712, (G) 8.6: NA

FIRE-RESISTANCE RATING OF SHAFTS (A) CH. 713, (G) 8.6.4: NA

ELEVATOR LOBBIES (A) CH. 30: NA

CONCEALED SPACES (A) CH. 718: NA

FIREBLOCKING (A) CH. 718.2: NA

DRAFTSTOPPING IN FLOORS (A) CH. 718.3:

NA

DRAFTSTOPPING IN ATTICS (A) CH. 718.4:

NA

FIRE AREAS (A) CH. 707.3.10: NA

INTERIOR FINISHES - (A) CH. 8 ; (G) CH. 26, 42

INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANCY (TABLE 803.11)

OCCUPANCY	EXITING ELEMENTS	CORRIDORS	ROOM & ENCLOSED SPACES
R-2	C	C	C
S-2	C	C	C

FIRE PROTECTION SYSTEMS - (A) CH. 9 ; (B) CH. 704, 804, 904; (G) 26, 42

AUTOMATIC SPRINKLER SYSTEMS (A) CH. 903

903.2.8 AUTOMATIC SPRINKLER SYSTEMS REQUIRED IN R OCCUPANCY

SPRINKLER SHALL BE INSTALLED THROUGHOUT IN ACCORDANCE TO NFPA 13 (A) 903.2.10.1

PORTABLE FIRE EXTINGUISHERS - WHERE REQUIRED (A) 906.3.1 (G 6.2.2)

R-2 - CLASS A, ORDINARY HAZARD

S-2 - CLASS A, ORDINARY HAZARD

CLASS A, ORDINARY HAZARD FIRE EXTINGUISHER REQUIREMENTS (A) 906.1

RATED: 2-A

MAX. FLOOR AREA PER UNIT OF A = 3,000 SF

MAX. FLOOR AREA FOR EXTINGUISHER = 11,250 SF

MAX. TRAVEL DISTANCE = 75 FT

FIRE ALARM AND DETECTION SYSTEMS - WHERE REQUIRED (A) 907.2

(A)907.2.9	GROUP R-2 FIRE ALARM SYSTEMS AND SMOKE ALARMS SHALL BE INSTALLED IN GROUP R-2 OCCUPANCIES AS REQUIRED IN SECTIONS 907.2.9.1 THROUGH 907.2.9.3
(A)907.2.9.11.3	INSTALLATION NEAR COOKING APPLIANCES

MEANS OF EGRESS - (A) CH. 10; (G) TABLE 7.3.1.2

OCCUPANT LOAD (A) TABLE 1004.1.2:
SEE LIFE SAFETY SHEET FOR FLOOR PLAN SHOWING OCCUPANT LOADS FOR EACH ROOM

MEANS OF EGRESS SIZING (A) CH. 1005:
0.3" x OL FOR STAIRS AND 0.2" x OL FOR OTHER EGRESS COMPONENTS. SEE LIFE SAFETY SHEET FOR FLOOR PLAN SHOWING STAIRS AND EGRESS COMPONENTS AND WIDTH REQUIRED AND WIDTH PROVIDED.

MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE (A) TABLE 1006.2.1 (G) 26, 42

R-2 50' (WITH SPRINKLER SYSTEM)

S-2 100' (WITH SPRINKLER SYSTEM)

ACCESSIBLE MEANS OF EGRESS (A) CH. 1009 (C) 206.2.4

NEED (1) ACCESSIBLE MEANS OF EGRESS/SPACE MIN. OR (2) WHEN TWO EXITS ARE REQUIRED.

EXIT TRAVEL DISTANCE (A) TABLE 1017.2 ; (G) 26, 42

R-2 250' (WITH SPRINKLER SYSTEM)

S-2 400' (WITH SPRINKLER SYSTEM)

CORRIDOR FIRE-RESISTANCE RATING (A) TABLE 1018.1 1020.1

R-2 OL > 30 = 1/2 HR. (WITH SPRINKLER SYSTEM)

S-2 OL > 30 = 0 HR. (WITH SPRINKLER SYSTEM)

MINIMUM CORRIDOR WIDTH (A) TABLE 1020.1

ANY FACILITIES NOT LISTED BELOW - 44"

MEANS OF EGRESS - (A) CH. 10

DEAD END TRAVEL DISTANCE (A) CH. 1020.4 ; (G) 26, 42

R-2 50' (WITH SPRINKLER SYSTEM)

S-2 50' (WITH SPRINKLER SYSTEM)

ACCESSIBILITY (C)

SCOPING REQUIREMENTS (C) CH. 2

FACILITY AND SITE REQUIRED TO BE ACCESSIBLE

ACCESSIBLE ROUTE (C) CH. 206

206.2.1 SITE ARRIVAL POINTS: 1 REQUIRED

206.2.2 CONNECTED SPACES: ALL SPACES ARE REQUIRED TO BE ACCESSIBLE AND CONNECTED BY AN ACCESSIBLE ROUTE

ACCESSIBLE ENTRANCES (C) CH. 206.4

206.4.1 PUBLIC ENTRANCES: AT LEAST 60% OF ALL PUBLIC ENTRANCES SHALL BE ACCESSIBLE

OTHER FEATURES AND FACILITIES (C) CH. 213

213.2, 213.2 TOILET AND BATHING FACILITIES: ONE TYPE OF EACH FIXTURE, ELEMENT, CONTROL OR DISPENSER SHALL BE ACCESSIBLE

213.3.1 WATER CLOSET COMPARTMENT: ONE WC MUST BE ACCESSIBLE. IF WC + URINALS > 6, PROVIDE ONE AMBULATORY ACCESS WC

213.3.4 LAVATORIES: AT LEAST 5%, BUT NOT LESS THAN ONE SHALL BE ACCESSIBLE

212 KITCHENS AND KITCHENETTES: SHALL BE ACCESSIBLE

224 TRANSIENT LODGING GUEST ROOMS

TABLE 224.2 GUEST ROOMS WITH MOBILITY FEATURES AND 224.5 DISPERSION:
TOTAL NUMBER OF GUEST ROOMS PROVIDED: 12
TOTAL MINIMUM NUMBER OF REQUIRED ROOMS WITHOUT ROLL-IN SHOWERS: 1
TOTAL NUMBER OF REQUIRED ROOMS WITHOUT ROLL-IN SHOWERS PROVIDED: 2
806.1 GUEST ROOMS WITH MOBILITY FEATURES SHALL COMPLY WITH SECTION 806.2

TABLE 224.4 GUEST ROOMS WITH COMMUNICATION FEATURES AND 224.5 DISPERSION:
TOTAL NUMBER OF GUEST ROOMS PROVIDED: 12
MINIMUM NUMBER OF REQUIRED GUEST ROOMS W/ COMMUNICATION FEATURES 2
TOTAL NUMBER OF PROVIDED GUEST ROOMS W/ COMMUNICATION FEATURES 2
806.3 GUEST ROOMS WITH COMMUNICATION FEATURES SHALL COMPLY WITH SECTION 806.3

INTERIOR ENVIRONMENT (A) CH. 12

VENTILATION (A) CH. 1203

1203.2 VENTILATION REQUIRED: THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1/150 OF THE AREA OF THE SPACE VENTILATED

EXCEPTION #1: 1/300 ALLOWED WHEN 50%-80% OF VENTING AREA IS 3' ABOVE EAVE VENT

EXCEPTION #2: 1/300 ALLOWED WHEN CLASS I OR II VAPOR BARRIER PROVIDED

PLUMBING SYSTEMS (A) CH. 29

MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES (A) TABLE 2902.1

OCC. TYPE	OCC. LOAD	WATER CLOSETS M	WATER CLOSETS W	LAVATORIES M	LAVATORIES W	SHOWERS	DF	SERVICE SINK
R-2	M-14.5, W-14.5	29/10 = 2.9		29/10 = 2.9		29/8= 3.6	29/100 = 0.3	1
S-2	M-13, W-13	26/100 = 0.26		26/100 = 0.26		-	26/1000 = 0.02	1
B (ACCESSORY)	M-5.5, W-5.5	1 per 25 = 1		1 per 40 = 1		-	11/100=0.11	1
	TOTAL REQ.	4.16		4.16		3.6	0.43	1
	PROVIDED	7		7		7	1	1

FLOOR DRAINS (D) CH. 412 - REQUIRED

INTERCEPTORS/SEPARATORS (D) CH. 1003:

GREASE - REQUIRED

OIL - REQUIRED

LAUNDRY - REQUIRED

THERMAL ENVELOPE (E) TABLE C402.1.3

CLIMATE ZONE (E) TABLE C301.1 2-A CLIMATE ZONE

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number 1932

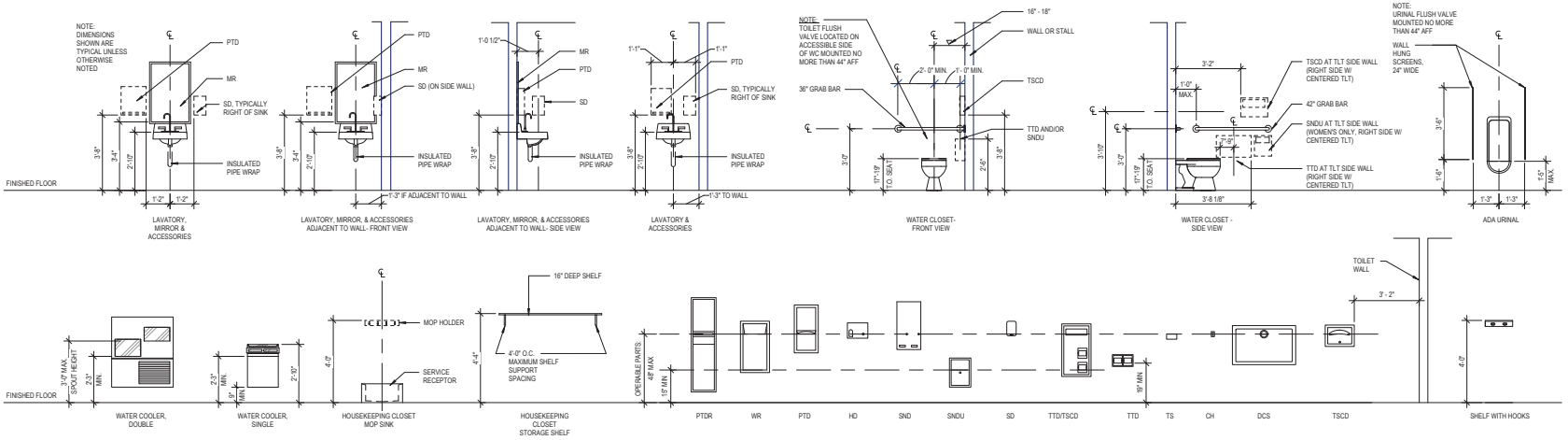
DISTRIBUTION

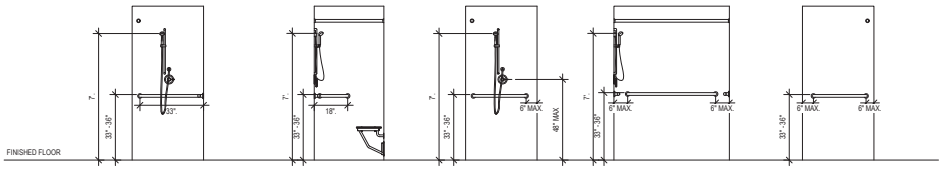
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

CODE ANALYSIS

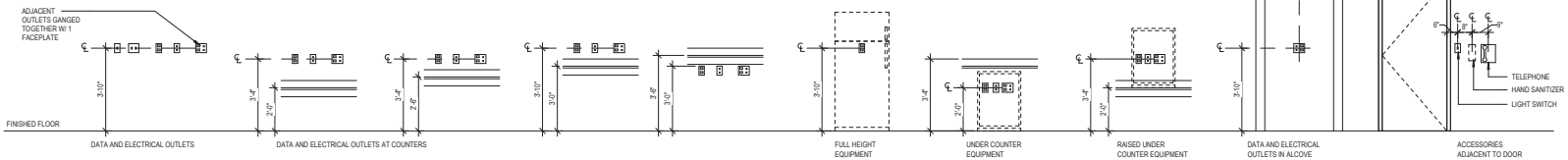
G-103

PLUMBING & ACCESSORIES



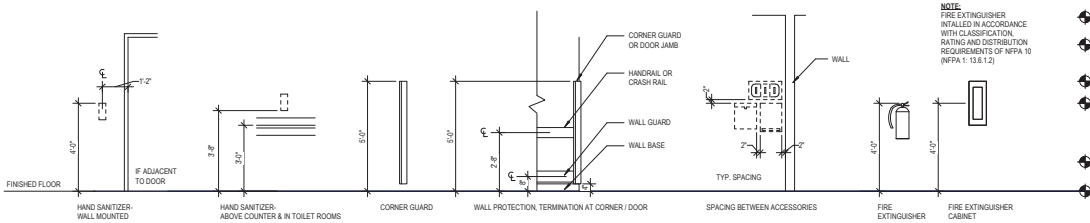


MECHANICAL, ELECTRICAL, COMMUNICATIONS, AND FIRE PROTECTION

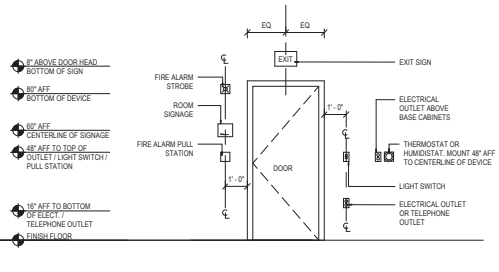


ACCESSORIES

WALL PROTECTION



TYPICAL DEVICE PLACEMENT



SANITARY ACCESSORIES LIST

ABBREVIATIONS	DESCRIPTIONS
CH	COAT HOOK
DCS	DIAPER CHANGING STATION
HD	HAND DRYER
PTD	PAPER TOWEL DISPENSER
PTDR	PAPER TOWEL DISPENSER / WASTE RECEPTACLE
SD	SOAP DISPENSER
SND	SANITARY NAPKIN DISPENSER
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SS	SHOWER SEAT
TS	TOILETRY SHELF
TTD	TOILET TISSUE DISPENSER
TSCD	TOILET SEAT COVER DISPENSER
TTD/TSCD	TOILET TISSUE DISPENSER / TOILET SEAT COVER DISPENSER
WR	WASTE RECEPTACLE
MR	MIRROR

NOTE:
ALL FIXTURES AND ACCESSORIES ARE TO BE MOUNTED TO COMPLY WITH FLORIDA PLUMBING, ELECTRICAL, MECHANICAL AND ACCESSIBILITY CODE.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

MOUNTING HEIGHTS

G-104

UL Product iQ™

BXUV.U407

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. U407

January 25, 2018

Nonbearing Wall Ratings — 1/2 or 1 HR. (See Items 1, 1A, 2, 2A and 6)

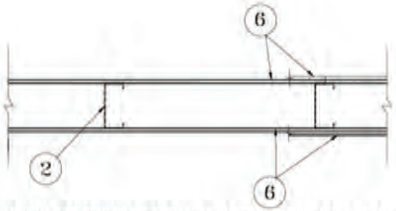
Bearing Wall Rating — 1/2 HR. (See Items 3 and 6)

Finish Rating — (See Item 3)

Loaded Per 2005 NDS Supplement, ASD Method, Wall Braced by Sheathing, 100% of Design Load Applied to Wall.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners** — (Not shown- For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with item 2 - Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. **Framing Members*— Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2A, channel shaped, fabricated from min. 0.015 in (min bare metal thickness) galvanized steel, min depth to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC, max.
CLARKDIETRICH BUILDING SYSTEMS — CD ProTRAK

DMFCWBS L L C — ProTRAK

MBA METAL FRAMING — ProTRAK

RAM SALES L L C — Ram ProTRAK

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProTRAK

1B. **Framing Members* - Floor and Ceiling Runner** — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Rating) — For use with Item 2B, proprietary channel shaped runners, min depth to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC, max.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™ Track

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™ Track

FUSION BUILDING PRODUCTS — Viper25™ Track

IMPERIAL MANUFACTURING GROUP INC — Viper25™ Track

1C. **Framing Members* — Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2C, channel shaped, fabricated from min. 0.015 in (min bare metal thickness) galvanized steel, min depth to accommodate stud size ; attached to floor and ceiling with fasteners 24 in. OC, max.
TELLING INDUSTRIES L L C — TRUE TRACK™

1D. **Framing Members*— Floor and Ceiling Runners** — (Not shown, As an alternate to Item 1 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — For use with Item 2E , channel shaped, fabricated from min. 0.018 in. (min bare metal thickness) galvanized steel, min depth to accommodate stud size, attached to floor and ceiling with fasteners 24 in. OC, max.
STEEL INVESTMENT GROUP L L C — AlphaTRAK

2. **Steel Studs** — (For the 1/2 or 1 Hour Nonbearing Wall Ratings)(Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min. 3 5/8 in. deep), spaced a max of 24 in. OC. Studs to be cut 1/4 in. less than assembly height.

2A. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3 5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 1/4 in. less than assembly height.
CLARKDIETRICH BUILDING SYSTEMS — CD ProSTUD

DMFCWBS L L C — ProSTUD

MBA METAL FRAMING — ProSTUD

RAM SALES L L C — Ram ProSTUD

STEEL STRUCTURAL PRODUCTS L L C — Tri-S ProSTUD

2B. **Framing Members* - Steel Studs** — (Not shown, As an alternate to Item 2 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) - Proprietary channel shaped studs, 3 5/8 in. deep (spaced a max of 24 in. OC. Studs to be cut 1/4 in less than the assembly height.
CALIFORNIA EXPANDED METAL PRODUCTS CO — Viper25™

MARINO/WARE, DIV OF WARE INDUSTRIES INC — Viper25™

FUSION BUILDING PRODUCTS — Viper25™

IMPERIAL MANUFACTURING GROUP INC — Viper25™

2C. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3 5/8 in. deep, fabricated from min. 0.015 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 1/4 in. less than assembly height.
TELLING INDUSTRIES L L C — TRUE STUD™

2D. **Framing Members* - Steel Studs** — (As an alternate to Item 2 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) - For use with Item 1 (3-5/8 in. wide track), channel shaped studs, fabricated from min 25 MSG corrosion protected steel, 1-1/4 in. wide by 3 5/8 in. deep, spaced a max of 24 in. OC. Studs to be cut 1/8 to 3/4 in. less than assembly height.
MARINO/WARE, DIV OF WARE INDUSTRIES INC — ShoMTek™

2E. **Framing Members*— Steel Studs** — (Not shown, As an alternate to Item 2 - For the 1/2 or 1 Hour Nonbearing Wall Ratings) — channel shaped studs, min. 3 5/8 in. deep, fabricated from min. 0.018 in. (min bare metal thickness) galvanized steel, spaced a max of 24 in. OC. Studs to be cut 1/4 in. less than assembly height.
STEEL INVESTMENT GROUP L L C — AlphaSTUD

3. **Wood Studs** — (Not shown, As an alternate to Items 1 and 2 - For the 1/2 Bearing Wall Rating) - Nom 2 by 4 in. spaced 16 in. OC max, effectively firestopped. When wood studs are used, Finish Rating is 16 Min.

4. **Batts and Blankets*** — (Optional, not shown) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets** (BKNW or BZJZ) Categories for names of Classified companies.

5. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screw for steel studs and 1 in. long Type S screws for wood studs.

6. **Gypsum Board*** — 5/8 in. thick paper surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers need not be staggered.
1/2 Hour Bearing Rating On Wood Studs - Single layer secured with 1 5/8 in. long Type S steel screws spaced 12 in. OC at the perimeter and in the field.

1/2 Hour Nonbearing Rating On Steel Studs - Single layer secured with 1 in. long Type S steel screws spaced 8 in. OC at the perimeter and 8 in. OC in the field.

1 Hour Nonbearing Rating On Steel Studs - Base layer board secured with 1 in. long Type S steel screws spaced 16 in. OC in the perimeter and 16 in. OC in the field. Face layer boards secured with 1 5/8 in. long Type S steel screws spaced 16 in. OC at the perimeter and 16 in. OC in the field. When joints are aligned, screws are offset 8 in. between layers.

CGC INC — 5/8 in. thick Type FCIII

UNITED STATES GYPSUM CO — 5/8 in. thick Type ECIII

USG MEXICO S A DE C V — 5/8 in. thick Type FCIII

7. **Joint Tape and Compound** — Vinyl or plastic, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

Last Updated on 2018-01-25

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HERNANDO COUNTY FIRE STATION #5

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Project number
1932

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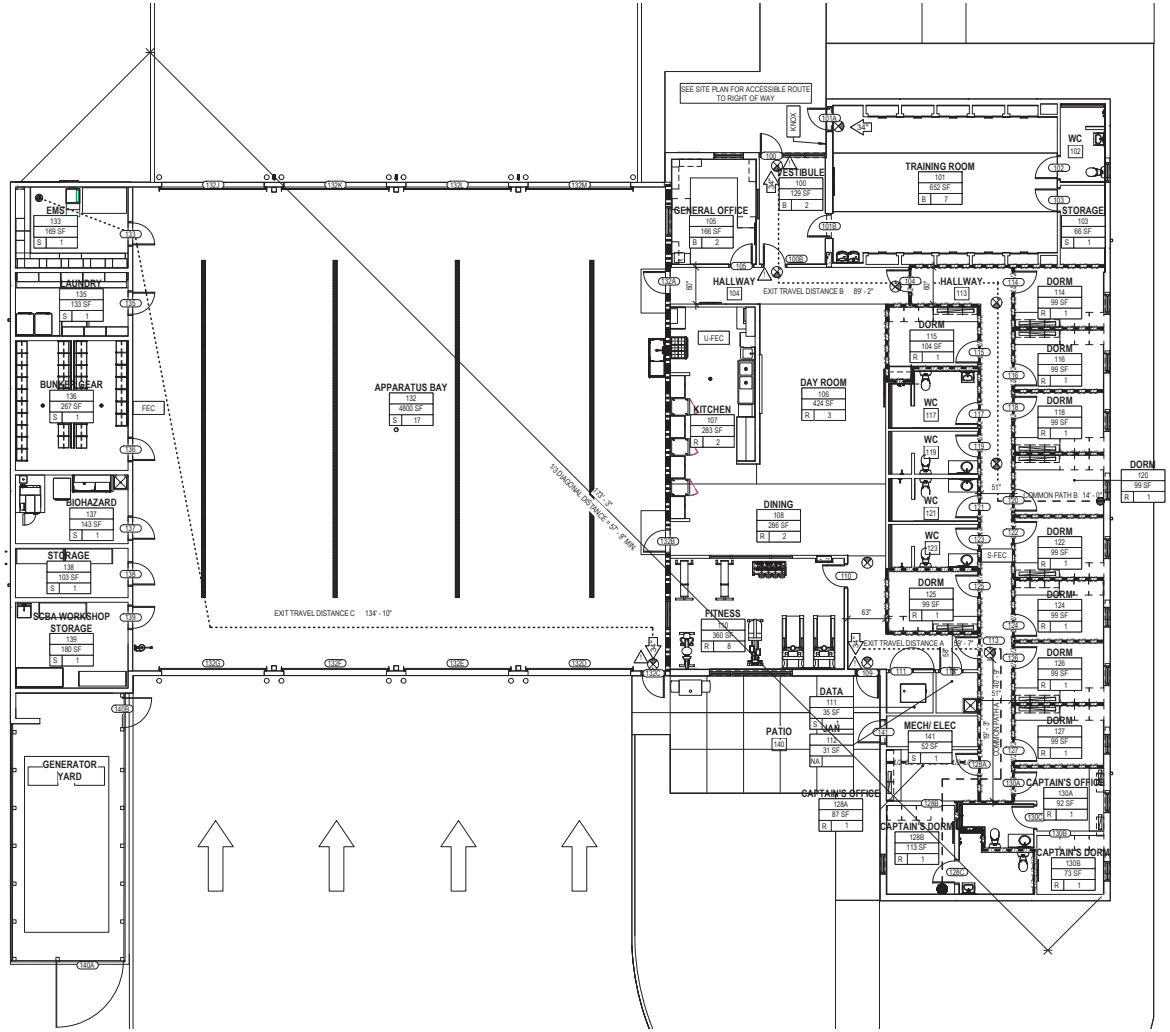
UL LISTINGS

G-105



1 LIFE SAFETY PLAN
1/8" = 1'-0"

LIFE SAFETY GENERAL NOTES

1. REFER CODE ANALYSIS SHEET G-103 FOR INTERIOR FINISH FLAME SPREAD RATING CLASSIFICATION.
2. VERIFY LOCATIONS FOR FIRE ALARM PULL STATIONS, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM REMOTE CONTROL PANEL, EMERGENCY LIGHTING , STROBES AND AUDIBLE ALERTS.
3. INSTALL FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10 BY A LICENSED FIRE EQUIPMENT DEALER. INSPECT, TAG, AND MOUNT ALL FIRE EXTINGUISHERS. SEE LOCATION IN PLAN
4. ALL PANIC AND FIRE EXIT HARDWARE TO BE COMPLIANT WITH FBC SECTION 1008.1.10
5. ALL ACCESS-CONTROLLED EGRESS DOORS TO BE COMPLIANT WITH FBC SECTION 100.1.4.4
6. SEE FIRE PROTECTION DRAWINGS FOR SPRINKLER LAYOUT
7. THRESHOLDS FOR ALL EXTERIOR DOORS CANNOT EXCEED 1/4" IN HEIGHT
8. FINAL EXIT SIGNS AND EMERGENCY LIGHTING LOCATIONS ARE SUBJECT TO THE APPROVAL OF THE GOVERNING JURISDICTION. REFER SHEET G-104 FOR MOUNTING HEIGHTS U.N.O. BY FIRE MARSHAL. APPLICABLE SIGNAGE SHALL BE PROVIDED BY CONTRACTOR AND COORDINATE WITH OTHER BUILDING SIGNAGE. REFER TO FBC SECTION 1013.4 FOR RAISED CHARACTER AND BRAILLE EXIT SIGNS REQUIREMENT
9. IF GOVERNING JURISDICTION RELOCATES ELEMENTS FROM ARCHITECTURAL SPECIFICATION, INFORM ARCHITECT, OWNER, AND AHJ PRIOR TO INSTALLATION. FIELD REVISED INFORMATION MUST BE INCLUDED IN "AS BUILT" DOCUMENTATION.
10. EMERGENCY FIXTURES SHALL BE TIED TO GENERATOR W/ TEST DOCUMENTATION PROVIDED TO ARCHITECT PRIOR TO SUBSTANTIAL COMPLETION.
11. FIRE DIVISIONS SHALL BE CONTINUOUS THROUGH ANY CONCEALED SPACE IN FLOOR OR ROOF CONSTRUCTIONS
12. CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRED PIPE SPACES, COLUMN ENCLOSURES, ETC. SHALL BE FIRESTOPPED.
13. PATCH ALL FIREPROOFING DAMAGED DURING CONSTRUCTION. RESTORE INTEGRITY OF FIREPROOFING AS REQUIRED BY BUILDING AND FIRE CODES AS REQUIRED BY GOVERNING AUTHORITIES.
14. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED AS REQUIRED BY BUILDING AND FIRE CODES AND AS BY GOVERNING AUTHORITIES.
15. SEE FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR SPRINKLER LAYOUT.

LIFE SAFETY PLAN LEGEND

*COORDINATE ITEMS W/ ELECTRICAL AS REQUIRED

- ILLUMINATED (DIRECTIONAL) EXIT SIGN
- FACP — FIRE ALARM CONTROL PANEL
- X-FEC — FIRE EXTINGUISHER (PREFIX INDICATES SEMI, RECESSED, U UNDER COUNTER, OR NONE FOR WALL MOUNTED)
- OL — OCCUPANCY LOAD SIGN. SEE DETAIL 2 THIS SHEET.
- 100A — DOOR TAG. SEE SCHEDULE SHEET A-810
- DOOR EXIT DEVICE (PANIC HARDWARE)
- SMOKE DETECTOR
- 1/2-HR FIRE RATING
- 1-HR FIRE SEPARATION
- -200- TOTAL EXIT ACCESS TRAVEL DISTANCE (FEET)
- -100- TOTAL COMMON PATH OF TRAVEL (FEET)
- F — MANUAL PULL STATION
- F — SPEAKER / STROBE
- STROBE
- H — HORN
- KNOX — KNOX BOX OR LOCAL JURISDICTION EQUIVALENT NOTE: CONFIRM FINAL LOCATION WITH OWNER
- DRW — DESIGNATED RESCUE WAITING AREA
- 36 — EGRESS DOOR or STAIR EXIT WIDTH (INCHES)

EGRESS WIDTH

PER SECTION 1005, FBC, BUILDING AND PER TABLE 14.8.3.1, 14.8, FFPC

OCCUPANT LOAD	DOOR (INCHES PER OCCUPANT)	DOOR WIDTH REQUIRED (INCHES)	DOOR WIDTH PROVIDED (INCHES)
	DOOR		
66	0.2	36	170

ROOM TAG

Room name
101 — ROOM NUMBER
150 SF — ROOM AREA
B XX — OCCUPANCY TYPE | OCCUPANT COUNT

OCCUPANCY COUNT

NUMBER	ROOM NAME	AREA	OCCUPANCY TYPE	FUNCTION	SQFT PER PERSON	OCCUPANT TOTAL
B						
100	VESTIBULE	129 SF	B	RESIDENTIAL	100	2
101	TRAINING ROOM	652 SF	B	BUSINESS	100	7
105	GENERAL OFFICE	166 SF	B	BUSINESS	100	2
B: 3		948 SF				11
NA						
102	WC	64 SF	NA			
104	HALLWAY	163 SF	NA			
109	HALLWAY	142 SF	NA			
112	JAN	31 SF	NA		0	
113	HALLWAY	355 SF	NA			
117	WC	88 SF	NA			
119	WC	70 SF	NA			
121	WC	70 SF	NA			
123	WC	70 SF	NA			
128C	WC	68 SF	NA			
130C	WC	51 SF	NA			
140	PATIO	458 SF	NA			
NA: 12		1630 SF				0
R						
106	DAY ROOM	424 SF	R	RESIDENTIAL	200	3
107	KITCHEN	283 SF	R	RESIDENTIAL	200	2
108	DINING	286 SF	R	RESIDENTIAL	200	2
110	FITNESS	360 SF	R	EXERCISE	50	8
114	DORM	99 SF	R	RESIDENTIAL	200	1
115	DORM	104 SF	R	RESIDENTIAL	200	1
116	DORM	99 SF	R	RESIDENTIAL	200	1
118	DORM	99 SF	R	RESIDENTIAL	200	1
120	DORM	99 SF	R	RESIDENTIAL	200	1
122	DORM	99 SF	R	RESIDENTIAL	200	1
124	DORM	99 SF	R	RESIDENTIAL	200	1
125	DORM	99 SF	R	RESIDENTIAL	200	1
126	DORM	99 SF	R	RESIDENTIAL	200	1
127	DORM	99 SF	R	RESIDENTIAL	200	1
128A	CAPTAIN'S OFFICE	87 SF	R	RESIDENTIAL	200	1
128B	CAPTAIN'S DORM	113 SF	R	RESIDENTIAL	200	1
130A	CAPTAIN'S OFFICE	92 SF	R	RESIDENTIAL	200	1
130B	CAPTAIN'S DORM	73 SF	R	RESIDENTIAL	200	1
R: 18		2712 SF				29
S						
103	STORAGE	66 SF	S	STORAGE	300	1
111	DATA	35 SF	S	STORAGE	300	1
132	APPARATUS BAY	4800 SF	S	PARKING	300	17
133	EMS	169 SF	S	STORAGE	300	1
135	LAUNDRY	133 SF	S	STORAGE	300	1
136	BUNKER GEAR	267 SF	S	STORAGE	300	1
137	BIOHAZARD	143 SF	S	STORAGE	300	1
138	STORAGE	103 SF	S	STORAGE	300	1
139	SCBA WORKSHOP STORAGE	180 SF	S	STORAGE	300	1
141	MECH/ ELEC	52 SF	S	STORAGE	300	1
S: 10		5950 SF				26
Grand total: 43		11241 SF				66

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LEVEL 1 - LIFE SAFETY PLAN

B-101

PRE-BID SUBMITTAL

THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING TO FAMILIARIZE HIMSELF WITH THE CONDITIONS FOR CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN FROM THE OWNER A WRITTEN LIST OF ALL PERMITS AND COPIES THEREOF, AND CAREFULLY REVIEW ALL PLANS, SPECIFICATIONS, AND PERMITS PREVIOUSLY SECURED ON BEHALF OF THE OWNER. IN CASE OF ANY DISCREPANCY EITHER IN PERMIT DOCUMENTS, PLANS, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR MUST PROMPTLY SUBMIT A "WRITTEN CLARIFICATION REQUEST" TO THE OWNER, WHO WILL PROMPTLY FORWARD SAME TO THE ENGINEER WHO WILL MAKE A DETERMINATION IN WRITING. THE CONTRACTOR MUST VERIFY EXISTING FACILITY INFORMATION, AND ALL DESIGN/PERMIT DATA REQUIRED FOR WORK THAT IS TO CONNECT WITH EXISTING FACILITIES. ANY DISCREPANCIES BETWEEN THE CONTRACT REQUIREMENTS AND THE EXISTING CONDITIONS MUST BE REFERRED TO THE OWNER, IN WRITING, FOR AN ENGINEERING DETERMINATION. ANY FURTHER ADJUSTMENT DUE TO FAILURE BY THE CONTRACTOR TO IDENTIFY THE RELATED DISCREPANCY, WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY LICENSES AND ADDITIONAL PERMITS AND FOR COMPLYING WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS, CODES, AND REGULATIONS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

CONSTRUCTION SAFETY AND LIABILITY

THE CONTRACTOR MUST TAKE PROPER SAFETY AND HEALTH PRECAUTIONS TO PROTECT THE WORK, THE WORKERS, THE PUBLIC, AND THE PROPERTY OF OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS DELIVERED AND WORK PERFORMED UNTIL COMPLETION AND ALL ACCEPTANCES HAVE BEEN OBTAINED. THE CONTRACTOR SHALL MAINTAIN TRAFFIC DURING CONSTRUCTION IN ACCORDANCE WITH "THE STATE OF FLORIDA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. " THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO PERSONS OR PROPERTY THAT OCCURS AS A RESULT OF HIS NEGLIGENCE. THE CONTRACTOR MUST SAVE HARMLESS AND INDEMNIFY THE OWNER AND VICKSTROM ENGINEERING SERVICES, INC., ITS OFFICERS, REPRESENTATIVES, AND EMPLOYEES FROM ALL CLAIMS, LOSS, DAMAGE, ACTIONS, CAUSES OF ACTION, AND/OR EXPENSES RESULTING FROM, BROUGHT FOR, OR ON ACCOUNT OF ANY PERSONAL INJURY OR PROPERTY DAMAGE RECEIVED OR SUSTAINED BY ANY PERSONS OR PROPERTY GROWING OUT OF, OCCURRING, OR ATTRIBUTABLE TO ANY WORK PERFORMED UNDER OR RELATED TO THIS CONTRACT, RESULTING IN WHOLE OR IN PART FROM THE NEGLIGENT ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTOR, OR ANY EMPLOYEE, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR OR ANY SUBCONTRACTOR.

PRE-CONSTRUCTION

THE OWNER SHALL SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL LAND SURVEYOR TO PERFORM AN "AS-BUILT" SURVEY OF ALL COMPLETED IMPROVEMENTS. THE OWNER SHALL ALSO SECURE PRIOR TO CONSTRUCTION A PROFESSIONAL ENGINEER TO PROVIDE THE APPROPRIATE SERVICES NEEDED IN ORDER TO CERTIFY TO ALL APPLICABLE REGULATORY AGENCIES THAT THE IMPROVEMENTS WERE CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH ALL APPLICABLE PERMITS AND APPROVALS. THE OWNER SHALL COORDINATE A PRE-CONSTRUCTION MEETING WITH THE ENGINEER, SURVEYOR, CONTRACTOR, TESTING LAB, UTILITY COMPANIES, AND APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL PROVIDE A SHOP DRAWING SUBMISSION SCHEDULE FOR ALL PROJECT MATERIALS AND COMPONENTS. THE CONTRACTOR SHALL NOT INITIATE CONSTRUCTION OF ANY PORTION OF THE IMPROVEMENTS UNTIL THE SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED FOR THAT PORTION BY THE ENGINEER. THE OWNER, CONTRACTOR, ENGINEER AND UTILITY COMPANY SHALL ALSO DISCUSS ALL DOCUMENTATION REQUIRED FOR CONTRIBUTED FACILITIES TRANSFER FROM THE OWNER/DEVELOPER TO THE UTILITY COMPANY UPON PROJECT COMPLETION.
UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FOLLOWING DOCUMENTS SHALL BE PROVIDED:
DOCUMENTS REQUIRED FOR CONTRIBUTED FACILITIES FROM DEVELOPER TO UTILITY COMPANY:

1. UTILITY EASEMENT(S): MUST BE RECORDED AT COUNTY CLERK OF COURT OFFICE BEFORE SUBMITTING TO UTILITY.
2. EASEMENT ACKNOWLEDGMENT.
3. AFFIDAVIT.
4. RELEASE OF LIEN.
5. BILL OF SALE.
6. ASSIGNMENT OF RIGHTS UNDER UTILITY AGREEMENT: WHEN PROPERTY HAS BEEN TRANSFERRED TO A NEW OWNER.
7. DESCRIPTION OF FACILITIES: A SHORT EXPLANATION DEPICTING WHAT HAS BEEN CONSTRUCTED.
8. DETAILED COST OF CONSTRUCTION; MUST INCLUDE INDIVIDUAL ITEMS OR APPURTENANCES, UNIT COST AND TOTAL COST OF EACH. DO NOT INCLUDE WATER SERVICE LINES OR SEWER LATERALS.
9. RECORD DRAWINGS (AS-BUILT): MUST BE SIGNED AND SEALED BY ENGINEER OF RECORD. SUBMIT A PDF, CAD DRAWING FILE AND TWO COPIES OF PRINTS.
10. F.D.E.P. APPLICATION(S).
11. INSPECTION REPORT(S).
12. PRESSURE TEST REPORT(S).
13. INFILTRATION-EXFILTRATION TEST REPORT(S), INCLUDING VIDEO TAPES AND LAMPING REPORTS.
14. LIFT STATION INSPECTION (START-UP) REPORT(S) AND EQUIPMENT SHOP DRAWINGS.
15. BACTERIOLOGICAL TEST REPORT(S).
16. ENGINEER'S CERTIFICATE OF SUBSTANTIAL COMPLETION TO F.D.E.P.
17. SYSTEM(S) ACCEPTANCE LETTER(S) FROM F.D.E.P.

ITEMS 1-8 TO BE SUPPLIED BY OWNER.
ITEMS 9-17 TO BE SUPPLIED BY ENGINEER OF RECORD.
UNLESS OTHERWISE SPECIFIED BY THE UTILITY, THE CONTRACTOR SHALL NOTIFY THE SUPERINTENDENTS OF THE WATER, GAS, SEWER, TELEPHONE, AND POWER COMPANIES, 10 DAYS IN ADVANCE, THAT HE INTENDS TO START WORK IN A SPECIFIC AREA. THE OWNER AND ENGINEER DISCLAIM ANY RESPONSIBILITY FOR THE SUPPORT AND PROTECTION OF SEWERS, DRAINS, WATER LINES, GAS LINES, CONDUITS OF ANY KIND, UTILITIES OR OTHER STRUCTURES OWNED BY THE CITY, COUNTY, STATE OR BY PRIVATE OR PUBLIC UTILITIES LEGALLY OCCUPYING ANY STREET, ALLEY, PUBLIC PLACE, RIGHT-OF-WAY, OR EASEMENT.

ENVIRONMENTAL PROTECTION DURING CONSTRUCTION

PROTECTION OF LAND RESOURCES - EXCEPT IN AREAS IDENTIFIED ON THE PLANS TO BE CLEARED, THE CONTRACTOR MUST NOT DEFACE, INJURE, OR DESTROY TREES OR SHRUBS OR REMOVE OR CUT THEM WITHOUT WRITTEN AUTHORIZATION FROM THE OWNER. IN THE ABSENCE OF A CLEARING PLAN, AREAS SHOWN FOR IMPROVEMENTS SHALL BE CLEARED UNLESS NOTED OTHERWISE.
PROTECTION OF WATER RESOURCES - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INVESTIGATE AND COMPLY WITH ALL APPLICABLE FEDERAL, STATE, REGIONAL, COUNTY, AND MUNICIPAL LAWS CONCERNING POLLUTION OF WATER RESOURCES. ALL WORK MUST BE PERFORMED IN SUCH A MANNER THAT OBJECTIONABLE CONDITIONS WILL NOT BE CREATED IN PUBLIC WATERS RUNNING THROUGH, OR ADJACENT TO THE PROJECT AREA.
EROSION AND SEDIMENT CONTROL - ALL PRACTICABLE AND NECESSARY EFFORT SHOULD BE TAKEN DURING CONSTRUCTION TO CONTROL AND PREVENT EROSION AND THE TRANSPORT OF SEDIMENT TO SURFACE DRAINS, SURFACE WATER, OR ONTO OTHER PROPERTY BY ANY OR ALL OF THE FOLLOWING METHODS:

1. STORMWATER FACILITIES ARE TO BE BUILT AS EARLY IN THE CONSTRUCTION PHASE AS POSSIBLE TO ENSURE THE TREATMENT OF STORMWATER RUNOFF. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES, HOWEVER, SUCH AS BERMS, SEDIMENT BASINS, GRASSING, SODDING, SAND BAGGING, BALED HAY OR STRAW, FLOATING SILT BARRIERS, STACKED SILT BARRIERS, ETC. MUST BE PROVIDED AND MAINTAINED UNTIL THE PERMANENT FACILITIES ARE COMPLETED AND OPERATIONAL.
2. RE-VEGETATION AND STABILIZATION OF DISTURBED GROUND SURFACES SHOULD BE ACCOMPLISHED AS SOON AS POSSIBLE.
3. FULL COMPACTION OF ANY FILL MATERIAL PLACED AROUND NEWLY INSTALLED STRUCTURES.
4. PROHIBIT THE USE OF ANY CONSTRUCTION EQUIPMENT THAT LEAKS EXCESSIVE AMOUNTS OF FUEL, OIL, OR HYDRAULIC FLUID.

ALL DISTURBED AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, EXCEPT RETENTION AREAS, AND SHALL BE STABILIZED BY SODDING, EXCEPT WHERE SEEDING AND MULCHING ARE CALLED FOR ON THE PLANS. THE LATEST VERSION OF THE F.D.O.T. ROAD & BRIDGE SPECIFICATIONS SHALL BE USED, UNLESS MORE RESTRICTIVE LOCAL SPECIFICATIONS EXIST.

PROTECTION OF FISH AND WILDLIFE

THE CONTRACTOR MUST AT ALL TIMES PERFORM ALL WORK IN A WAY AND TAKE SUCH STEPS AS REQUIRED TO PREVENT ANY INTERFERENCE WITH OR DISTURBANCE TO FISH AND WILDLIFE. THE CONTRACTOR SHALL NOT ALTER WATER FLOWS OR OTHERWISE DISTURB NATIVE HABITATS AND JURISDICTIONAL WETLANDS LOCATED WITHIN AND/OR ADJACENT TO THE PROJECT AREA.

RECORDING AND PRESERVING HISTORICAL AND ARCHEOLOGICAL FINDS

ALL ITEMS HAVING ANY APPARENT HISTORICAL OR ARCHEOLOGICAL INTEREST THAT ARE DISCOVERED IN THE COURSE OF ANY CONSTRUCTION ACTIVITIES MUST BE CAREFULLY PRESERVED. THE CONTRACTOR MUST LEAVE THE ARCHEOLOGICAL FIND UNDISTURBED AND MUST IMMEDIATELY REPORT THE FIND TO THE OWNER SO THAT THE PROPER AUTHORITY MAY BE NOTIFIED.

1. EARTHWORK

GENERAL

1-01 SUBMITTALS
A. EROSION AND CONTROL MEASURES
B. COMPACTION TESTS
C. SOILS CLASSIFICATION TESTS
D. PRESERVATION PLANS

1-02 SITE EXAMINATION

BEFORE SUBMITTING BIDS, CONTRACTORS SHALL INFORM THEMSELVES AS TO LOCATION AND NATURE OF THE WORK, CHARACTER OF EQUIPMENT AND FACILITIES NEEDED FOR PERFORMANCE OF THE WORK, GENERAL AND LOCAL CONDITIONS PREVAILING AT THE SITE, AND OTHER MATTERS WHICH MAY, IN ANY WAY, AFFECT THE WORK UNDER CONTRACT.
EXAMINE SOURCES OF INFORMATION CONCERNING GROUND WATER LEVEL, WHETHER SURFACE OR SUBSURFACE. EACH BIDDER TO DRAW HIS OWN CONCLUSION CONCERNING GROUND WATER LEVELS AND HOW WATER AFFECTS HIS WORK.

1-02A SITE EXAMINATION - WELLS

ANY WELLS, WHETHER KNOWN AT THE TIME OF CONSTRUCTION OR FOUND DURING CONSTRUCTION, SHALL BE PLUGGED AND ABANDONED BY A LICENSED WELL CONTRACTOR IN CONFORMANCE WITH 40D-3.531, F.A.C, OR CURRENT STATE REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH THE SITE AND DETERMINING, THROUGH VISUAL INSPECTION, IF ANY WELLS EXIST WITHIN THE CONSTRUCTION AREA.

1-03 SUBSURFACE INVESTIGATIONS

SUBSURFACE DATA, INCLUDING GROUND WATER ELEVATIONS OR CONDITIONS, IF SHOWN ON THE DRAWINGS OR ATTACHED TO THESE SPECIFICATIONS, ARE PRESENTED ONLY AS INFORMATION THAT IS AVAILABLE WHICH INDICATED CERTAIN CONDITIONS FOUND AND LIMITED TO THE EXACT LOCATIONS, SHALL NOT BE INTERPRETED AS AN INDICATION OF CONDITIONS THAT MAY ACTUALLY BE DEVELOPED THROUGH THE PERIOD OF CONSTRUCTION. BIDDERS SHALL EXAMINE THE SITE OF THE WORK AND MAKE THEIR OWN DETERMINATION OF THE CHARACTER OF MATERIALS AND THE CONDITIONS TO BE ENCOUNTERED ON THE WORK, AND THEIR PROPOSAL SHALL BE BASED UPON THEIR OWN INVESTIGATIONS. THE OWNER AND ENGINEER SHALL NOT BE HELD RESPONSIBLE FOR VARIATIONS FOUND TO EXIST BETWEEN THE ATTACHED DATA ABOVE REFERRED TO AND ACTUAL FIELD CONDITIONS THAT DEVELOP THROUGH THE PERIOD OF CONSTRUCTION. WHERE EXISTING GRADES, UTILITY LINES AND SUBSTRUCTURES ARE SHOWN ON THE DRAWINGS, THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR CORRECTNESS OF EXISTING CONDITIONS INDICATED. THE CONTRACTOR SHALL ASCERTAIN EXACT LOCATIONS OF UTILITIES AND SUBSTRUCTURES THAT MAY BE AFFECTED BY THIS PROJECT, AND SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INJURY THAT MAY RESULT FROM WORKING ON OR NEAR THOSE UTILITIES, SUBSTRUCTURES WHICH ARE NOT TO BE REMOVED OR DEMOLISHED. THE CONTRACTOR SHALL MAKE HIS OWN DEDUCTIONS OF THE SUBSURFACE CONDITIONS WHICH MAY AFFECT METHODS OR COST OF CONSTRUCTION AND HE AGREES THAT HE WILL MAKE NO CLAIM FOR DAMAGES OR OTHER COMPENSATION, EXCEPT SUCH AS ARE PROVIDED FOR IN THE AGREEMENT, SHOULD HE FIND CONDITIONS DURING THE PROGRESS OF THE WORK DIFFERENT FROM THOSE AS CALCULATED OR ANTICIPATED BY HIM.

1-04 BENCH MARKS AND MONUMENTS

MAINTAIN CAREFULLY EXISTING BENCH MARKS, MONUMENTS, AND OTHER REFERENCE POINTS. IF DISTURBED OR DESTROYED, REPLACE AS DIRECTED.

1-05 JOB CONDITIONS

CONDITION OF PREMISES: ACCEPT SITE AS FOUND AND EXCAVATE, FILL, COMPACT, AND BACKFILL SITE AS HEREINAFTER SPECIFIED.
PROTECTION:
EXISTING STRUCTURES AND PROPERTY - TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT OR SETTLEMENT OF ADJACENT STRUCTURES AND FACILITIES; PROVIDE AND REPLACE BRACING OR SHORING AS NECESSARY OR PROPER IN CONNECTION THEREWITH; BE RESPONSIBLE FOR SAFETY AND SUPPORT OF SUCH STRUCTURES; BE LIABLE FOR ANY MOVEMENT OR SETTLEMENT, ANY DAMAGE OR INJURY CAUSED THEREBY OR RESULTING THEREFROM. IF AT ANY TIME SAFETY OR ANY ADJACENT STRUCTURES APPEARS TO BE ENDANGERED, CEASE OPERATION, TAKE PRECAUTIONS TO SUPPORT SUCH STRUCTURES AND NOTIFY THE OWNER. RESUME OPERATIONS ONLY AFTER PERMISSION HAS BEEN GRANTED BY THE OWNER.
SIDEWALKS AND STREETS - TAKE PRECAUTIONS TO GUARD AGAINST MOVEMENT, SETTLEMENT OR COLLAPSE OF ANY SIDEWALKS, CURBS OR STREET PASSAGES ON ADJOINING SITE; BE LIABLE FOR ANY SUCH MOVEMENT, SETTLEMENT OR COLLAPSE; REPAIR PROMPTLY SUCH DAMAGE WHEN SO ORDERED. INSTALL SUCH SHORING, INCLUDING SHEET PILING, AS MAY BE REQUIRED DURING EXCAVATION, TO PROTECT BANKS, ADJACENT PAVING, STRUCTURES AND UTILITIES.
RESPONSIBILITY - BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING STRUCTURES OR TO EQUIPMENT AND FURNISHINGS HOUSED THEREIN WHICH ARE DUE DIRECTLY OR INDIRECTLY TO CONSTRUCTION OPERATIONS. EXCEPT WHERE REMOVAL IS NECESSITATED BY SITE GRADING OR LOCATION OF NEW BUILDING, USE EVERY POSSIBLE PRECAUTION TO PREVENT INJURIES TO LANDSCAPING, DRIVES, CURBS, AND WALKS ON OR ADJACENT TO SITE OF THE WORK AND REPLACE, AT NO EXPENSE TO OWNER, ANY OF SUCH THAT ARE DESTROYED.

2. EXECUTION

2-01 GENERAL

ACCOMPLISH IN A MANNER THAT PROVIDES FOR THE SAFETY OF THE PUBLIC AND WORKMEN AND PROVIDE FOR THE PROTECTION OF ALL PROPERTY.
CONSTRUCTION - DO NOT CLOSE, OBSTRUCT OR STORE MATERIAL OR EQUIPMENT IN STREETS, SIDEWALKS, ALLEYS OR PASSAGEWAYS WITHOUT A PERMIT IN ACCORDANCE WITH LOCAL ORDINANCES, REGULATIONS, AND CODES.
INTERFERENCE - CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE WITH ROADS, STREETS, DRIVEWAYS, ALLEYS, SIDEWALKS AND OTHER FACILITIES.
PNEUMATIC TOOLS - WORK WITH PNEUMATIC OR VIBRATORY TOOLS WILL BE PERMITTED ONLY IN A MANNER WHICH CAUSES NO RELATED DAMAGES.
REMOVAL - UNLESS OTHERWISE NOTED OR SPECIFIED TO BE RELOCATED OR STORED, ALL MATERIALS REMOVED BECOME THE PROPERTY OF THE CONTRACTOR AND ARE TO BE REMOVED COMPLETELY AWAY FROM THE SITE BY HIM. DO NOT STORE OR PERMIT DEBRIS TO ACCUMULATE ON THE SITE.
TEMPORARY STRUCTURES - REMOVE ALL TEMPORARY STRUCTURES WHEN THEY ARE NO LONGER REQUIRED.
REPAIR - CLEAN UP, REPAIR OR REPLACE AT NO COST TO OWNER ALL PROPERTY DAMAGED BY REASON OF REQUIRED WORK. ALL PATCH WORK SHALL MATCH EXISTING AND BE PERFORMED IN A NEAT AND WORKMANLIKE MANNER BY CRAFTSMEN SKILLED IN THE TRADE INVOLVED. IN NEWLY GRADED AREAS TAKE EVERY PRECAUTION AND TEMPORARY MEASURE NECESSARY TO PREVENT DAMAGE FROM EROSION OF FRESHLY GRADED AREAS. WHERE ANY SETTLEMENT OR WASHING MAY OCCUR PRIOR TO ACCEPTANCE OF THE WORK, REPAIR AND RE-ESTABLISH GRADES TO THE REQUIRED ELEVATIONS AND SLOPES AT NO ADDITIONAL COST TO THE OWNER. THIS APPLIES TO DAMAGE TO THE NEWLY GRADED AREAS WITHIN THE CONSTRUCTION LIMITS AND DAMAGE TO ADJACENT PROPERTIES BY ERODED MATERIAL.

2-02 LOCATIONS AND ELEVATIONS

CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SURVEYS, MEASUREMENTS AND LAYOUTS REQUIRED FOR PROPER EXECUTION OF THE WORK. LAY OUT LINES AND GRADES FROM EXISTING SURVEY CONTROL SYSTEM AND AS SHOWN ON DRAWINGS.

2-03 CLEARING AND GRUBBING

WITHIN LIMITS OF AREAS DESIGNATED FOR GRADING AND SITE CONSTRUCTION WORK, REMOVE TREES, BRUSH, STUMPS, WOOD DEBRIS AND OTHER DELETERIOUS MATERIALS NOT REQUIRED TO REMAIN AS PART OF THE FINISHED WORK.
REMOVE ALL GRASS, PLANTS, VEGETATION AND ORGANIC MATERIAL FROM SAME AREA.

2-04 STRIPPING

STRIP ALL TOPSOIL, ORGANIC MATERIAL, SURFACE LITTER, RUBBLE, AND OVERBURDEN FOR ENTIRE DEPTH OF ROOT SYSTEM OF GRASS OR OTHER VEGETATION OVER THE LIMITS OF CONSTRUCTION. STOCKPILE TOPSOIL ON SITE WHERE DIRECTED.

2-05 EXECUTION

BEGIN EXCAVATION AFTER STRIPPING, CLEARING AND GRUBBING WHERE APPLICABLE, HAS BEEN COMPLETED. EXCAVATE TO GRADES REQUIRED TO ACCOMMODATE THE PROPOSED CONSTRUCTION; DE-WATER AS NEEDED. REMOVE UNSATISFACTORY MATERIALS ENCOUNTERED FROM THE BUILDING AREAS, AND OTHER NON-LANDSCAPED AREAS, AND OTHER NON-LANDSCAPED AREAS. EXCAVATE IN SUCH A MANNER THAT QUICK AND EFFICIENT DRAINAGE OF STORMWATER WILL BE AFFECTED. CLASSIFY EXCAVATED MATERIALS AND STOCKPILE SEPARATELY SUITABLE SOILS FOR USE AS BACKFILL MATERIALS. IF SUFFICIENT QUANTITIES OF EXCAVATED MATERIALS MEETING REQUIREMENTS FOR BACKFILL ARE NOT AVAILABLE ON-SITE, PROVIDE MATERIALS MEETING THESE REQUIREMENTS. STOCKPILE EXCAVATED MATERIAL SUITABLE FOR USE AS FILL AND BACKFILL.

2-06 FILLING, BACKFILLING, AND COMPACTING

THE WORK CONSISTS OF COMPACTION OF EXISTING EARTH (EXCLUDES ROCK), SURFACES AFTER EXCAVATION, FILLING AND COMPACTION OF SAID AREA TO LEVELS REQUIRED WITH SUITABLE BACKFILL MATERIAL.
MATERIALS - SATISFACTORY FILL MATERIALS, AASHTO CLASSIFICATION A-3 OR BETTER, SHALL BE USED IN FILLS AND BACKFILLS.
FILLING AND BACKFILLING - PLACE SATISFACTORY FILL MATERIAL IN HORIZONTAL LAYERS NOT EXCEEDING SIX (6") INCHES IN LOOSE DEPTH. COMPACT AS SPECIFIED HEREIN. NO MATERIAL SHALL BE PLACED ON SURFACES THAT ARE MUDDY.
COMPACTION - COMPACTION SHALL BE WITH EQUIPMENT SUITED TO SOIL BEING COMPACTED. MOISTEN OR AERATE MATERIAL, AS NECESSARY, TO PROVIDE MOISTURE CONTENT THAT WILL READILY FACILITATE OBTAINING SPECIFIED COMPACTION WITH EQUIPMENT USED. COMPACT EACH LAYER TO NOT LESS THAN PERCENTAGE OF MAXIMUM DENSITY SPECIFIED BELOW, DETERMINED IN ACCORDANCE WITH AASHTO T-180. INSURE THAT THE COMPACTION OF PREVIOUSLY PREPARED FILL AREAS HAS BEEN MAINTAINED PRIOR TO PLACING NEW LAYERS.
RECONDITIONING OF SUBGRADE - WHERE APPROVED COMPACTED SUBGRADES ARE DISTURBED BY THE CONTRACTOR'S SUBSEQUENT OPERATIONS OR ADVERSE WEATHER, SUBGRADE SHALL BE SCARIFIED AND COMPACTED AS SPECIFIED HEREINBEFORE TO REQUIRED DENSITY PRIOR TO FURTHER CONSTRUCTION THEREON. RE-COMPACTION OVER UNDERGROUND UTILITIES SHALL BE BY POWER-DRIVEN HAND TAMPERS.
COMPACTION REQUIREMENTS:
A. FILL UNDER LAWNS AND PLANTED AREAS: 95%
B. BELOW SLABS ON GRADE AND CONCRETE WALKS: 98%
C. UNDER PAVING AND PARKING AREAS: 98%

2-07 TESTING

THE CONTRACTOR WILL PROVIDE THE SERVICES OF A TESTING LABORATORY TO PERFORM SPECIFIED TESTS, INSPECTIONS, INSTRUMENTATION AND INSPECTION OF THE WORK. TESTS OF MATERIALS SHALL BE AS FOLLOWS:

A. SOIL CLASSIFICATION - ONE TEST FROM EACH TYPE OF MATERIAL ENCOUNTERED AND/OR PROPOSED TO BE USED.
B. LABORATORY TESTS FOR MOISTURE-CONTENT AND DENSITY ACCORDING TO AASHTO T-180 - ONE TEST FOR EACH MATERIAL ENCOUNTERED AND/OR PROPOSED TO BE USED.
C. FIELD TESTS FOR MOISTURE CONTENT AND DENSITY - ONE TEST PER LAYER OF FILL PER 5,000 SQUARE FEET OF AREA.

ONE COPY OF ALL TEST REPORTS, SIGNED AND SEALED BY TESTING LABORATORY ARE TO BE PROVIDED TO THE ENGINEER.

SUPPLEMENTAL SPECIFICATIONS

GENERAL

THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO THE SPECIFICATIONS AND STANDARDS OF THE UTILITY COMPANIES WHICH ARE SERVING THE PROJECT SITE. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL SITE DEVELOPMENT STANDARDS AND CODES OF THE REGULATORY AGENCIES ASSOCIATED WITH THIS PROJECT. THE LATEST VERSION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION ROAD AND BRIDGE CONSTRUCTION STANDARD SPECIFICATIONS THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL BE INCLUDED WITHIN THE PROJECT SPECIFICATIONS. UNLESS OTHERWISE NOTED, EITHER ON THE PLANS OR WITHIN THE SPECIFICATIONS, THE APPLICABLE SECTIONS OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION ROADWAY AND TRAFFIC DESIGN STANDARDS SHALL APPLY INCLUDING REFERENCES THEREIN. THE GENERAL DESCRIPTION OF THE NATURE OF THE WORK SHALL BE SUFFICIENT CORRELATION TO THE FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, EXACT ITEM DESCRIPTION IS NOT REQUIRED. IN THE EVENT THERE ARE CONFLICTS BETWEEN SPECIFICATIONS OR REQUIREMENTS, THE MOST RESTRICTIVE (CONSERVATIVE) SPECIFICATION OR REQUIREMENT SHALL BE USED.

POTABLE WATER DISTRIBUTION/WASTEWATER COLLECTION INSTALLATION

UNLESS OTHERWISE NOTED ON THE PLANS, THE STANDARDS AND SPECIFICATIONS OF THE ASSOCIATED UTILITY COMPANY SERVING THE PROJECT SITE SHALL BE ADHERED TO FOR ALL MATERIALS, INSTALLATION, TESTING, AND CERTIFICATION ACTIVITIES FOR ALL PUMP STATIONS, MAIN LINES, SERVICES, AND APPURTENANCES. IF STANDARDS AND SPECIFICATIONS ARE NOT AVAILABLE, THE CONTRACTOR SHALL CONFORM TO THE LATEST STANDARDS AND SPECIFICATIONS ADOPTED BY LOCAL UTILITIES, LOCAL GOVERNMENTAL REGULATIONS, OR THE MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

STORMWATER PIPE INSTALLATION AND MISCELLANEOUS EXCAVATIONS

UNLESS OTHERWISE NOTED ON THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE EXCAVATION, BEDDING, JOINTS, AND BACKFILLING OPERATIONS IN ACCORDANCE WITH THE POTABLE WATER/WASTEWATER INSTALLATION SPECIFICATIONS, LOCAL GOVERNMENTAL REGULATIONS OR STANDARDS, F.D.O.T. STANDARDS AND SPECIFICATIONS, OR MANUFACTURER'S RECOMMENDED INSTALLATION PROCEDURES, WHICHEVER IS SPECIFICALLY THE MOST RESTRICTIVE.

UNSUITABLE MATERIALS

IF UNSUITABLE MATERIAL IS ENCOUNTERED WITHIN THE ROADWAY AREA AND/OR UTILITY AREAS IT SHALL BE REMOVED TO A DEPTH OF THREE (3.0') FEET BELOW THE SUB-BASE OR TRENCH BOTTOM AND SHALL BE BACKFILLED WITH A-3 MATERIAL OR BETTER WITH PLACEMENT AND COMPACTION METHODS IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, OR AS OTHERWISE NOTED ON THE PLANS. UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE SITE, UNLESS THE ENGINEER APPROVES USE WITHIN LANDSCAPED AREAS.

3. DE-WATERING

3-01 GENERAL

DE-WATERING CONSISTS OF PERFORMING ALL WORK NECESSARY TO REMOVE SURFACE WATER AND/OR CONTROL THE GROUND WATER LEVELS AND HYDROSTATIC PRESSURES IN ORDER TO PERMIT ALL EXCAVATION AND CONSTRUCTION UNDER THIS CONTRACT TO BE PERFORMED IN THE DRY. WORK OF THIS SECTION INCLUDES INSTALLATION, OPERATIONS, MAINTENANCE, SUPERVISION, SUPPLY, DISMANTLING, AND REMOVAL FROM THE SITE OF THE DE-WATERING EQUIPMENT. THE CONTRACTOR MUST FAMILIARIZE HIMSELF WITH THE POTENTIAL FOR EXCESSIVE RAINFALL, THE GROUND CONDITIONS, AND THE GROUND WATER CONDITIONS. GROUND WATER ELEVATION CAN FLUCTUATE. IT IS ANTICIPATED THAT ANY EXCAVATIONS MAY ENCOUNTER THE GROUND WATER TABLE.
DRAINAGE OF THE SITE - AT ALL TIMES THE CONTRACTOR SHALL MAINTAIN AND OPERATE ADEQUATE SURFACE AND SUBSURFACE DRAINAGE METHODS IN ORDER TO KEEP THE CONSTRUCTION SITE DRY AND IN SUCH CONDITION THAT PLACEMENT AND COMPACTION OF FILL MAY PROCEED UNHINDERED BY SATURATION OF THE AREA. DURING CONSTRUCTION, THE SURFACE OF THE BACKFILL AREA SHALL BE LEFT IN SUCH CONDITION THAT PRECIPITATION AND/OR SURFACE WATER WILL RUN OFF WITHOUT PONDING.

3-02 METHOD

THE CONTROL OF ALL SURFACE AND SUBSURFACE WATER IS PART OF THE DE-WATERING REQUIREMENTS. MAINTAIN ADEQUATE CONTROL SO THAT THE STABILITY OF EXCAVATED AND CONSTRUCTION SLOPES IS NOT ADVERSELY AFFECTED BY WATER, THAT EROSION IS CONTROLLED, AND THE FLOODING OF EXCAVATIONS OR DAMAGE TO STRUCTURES DOES NOT OCCUR. DRAIN SURFACE WATER AWAY FROM THE EXCAVATION. DISPOSE OF ALL WATER REMOVED FROM THE EXCAVATION IN A MANNER THAT WILL NOT ENDANGER PUBLIC HEALTH, PROPERTY, OR PORTIONS OF THE WORK UNDER CONSTRUCTION OR COMPLETED. DISPOSE OF WATER IN A MANNER THAT WILL CAUSE NO INCONVENIENCE WHATSOEVER TO THE OWNER OR TO OTHERS ENGAGED IN WORK AT THE SITE. DISPOSE OF WATER RESULTING FROM DE-WATERING OPERATIONS IN ACCORDANCE WITH CITY, COUNTY, STATE AND FEDERAL REGULATIONS. CONDUCT OPERATIONS SO THAT STORMWATER RUNOFF SEDIMENT IS NOT DISCHARGED TO THE ADJACENT WATER BODIES, SEWERS, STREETS AND ADJACENT PROPERTIES. DE-WATERING SYSTEM SHALL BE SO DESIGNED AS TO PREVENT REMOVAL OF SOIL FINES FROM THE SITE DURING THE DE-WATERING OPERATION.

4. PORTLAND CEMENT CONCRETE PAVING

4-01 QUALITY ASSURANCE

COMPLY WITH ACI STANDARDS "RECOMMENDED PRACTICES FOR CONSTRUCTION OF CONCRETE PAVEMENTS AND CONCRETE BASES" (ACI316, LATEST EDITION).

4-02 REFERENCE STANDARDS

THE FOLLOWING REFERENCE STANDARDS OF THE ISSUES LISTED BELOW, BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THERETO. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH HEREINAFTER SPECIFIED STANDARDS.
A. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
B. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) STANDARD
C. FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARDS & SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION)
SECTION 350 "CEMENT CONCRETE PAVEMENT".
D. T-180 MOISTURE-DENSITY RELATIONS OF SOILS

4-03 SUBMITTALS

THE CONTRACTOR SHALL SUBMIT TWO COPIES OF TEST REPORTS PREPARED BY AN INDEPENDENT TESTING LABORATORY AND CERTIFIED BY A PROFESSIONAL ENGINEER REGISTERED TO PRACTICE IN THE STATE OF FLORIDA. THESE REPORTS SHALL INDICATE ALL TESTS PERFORMED AND SHALL INCLUDE A CERTIFICATION STATEMENT OF COMPLIANCE WITH THE PROJECT SPECIFICATION. TESTS SHALL BE PERFORMED AS SPECIFIED UNDER THIS SECTION.
SUBMIT FOR REVIEW THE FOLLOWING:

A. CONCRETE DESIGN MIX AND PROVING FLEXURAL STRENGTH (MODULUS OF RUPTURE) TESTS
B. EXPANSION JOINT FILLER DATA
C. JOINT SEALER DATA
D. "PROPOSED PAVING CONSTRUCTION PLAN" WHICH SHALL SHOW THE CONCRETE PAVING JOINT TYPES AND LOCATIONS AND SHALL INCLUDE A STATEMENT OF PROPOSED SEQUENCE AND SCHEDULE OF PAVING OPERATIONS
E. RESULTS OF CONCRETE TESTS
F. RESULTS OF FIELD TESTS OF LBR AND COMPACTION OF STABILIZED SUBGRADE

4-04 MATERIALS

STABILIZED SUBGRADE - PROVIDE 12 INCH STABILIZED SUBGRADE (LBR 40 MIN) COMPACTED TO A MINIMUM DENSITY OF 98% AS DETERMINED BY AASHTO T-180.
CONCRETE - CONCRETE FOR CONCRETE PAVEMENT SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, A SLUMP RANGE BETWEEN 2 TO 4 INCHES AND A 28-DAY MODULUS OF RUPTURE OF 650 PSI AS DETERMINED BY THE REQUIREMENTS OF PARAGRAPH TESTING SPECIFIED HEREINAFTER.
JOINT SEALER - JOINT SEALING SHALL CONFORM TO FEDERAL SPECIFICATIONS SS-S1401 OR SS-S-200d (COLD APPLIED).
PRE-MOLDED EXPANSION JOINT FILLER - PRE-MOLDED EXPANSION JOINT FILLER SHALL CONFORM TO ASTM D1751-73.

4-05 EXECUTION

COMPLY WITH ACI STANDARD 316-74 AND SECTION 350, FDOT STANDARDS AND SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED HEREIN.
FINAL GRADING - ALL CONCRETE PAVEMENT SHALL HAVE A MAXIMUM DEVIATION OF 1/8 INCH(+/-) FROM THE SPECIFIED SURFACE PLANE AND PLAN GRADES. THE SURFACE FINISH SHALL BE APPROVED BY THE OWNER OR HIS REPRESENTATIVE. IN GENERAL, THE TEXTURE IS OF A MEDIUM BROOM FINISH AFTER FLOATING.
JOINTS - CONTRACTION JOINTS INDICATED ON DRAWINGS, OR AS REQUIRED, SHALL BE PLACED PERPENDICULAR TO THE FINISH GRADE OF THE CONCRETE. JOINTS SHALL BE CUT TO A DEPTH OF 1/4 OF THE SLAB THICKNESS BY CUTTING WITH AN EDGING TOOL HAVING A 1/4 INCH RADIUS OR BY SAWING WITH A BLADE PRODUCING A CUT NOT LESS THAN 1/8 INCH IN WIDTH. SAW JOINTS WITHIN 4 TO 6 HOURS OF CONCRETE PLACEMENT.
EXPANSION JOINTS SHALL BE PLACED WHERE INDICATED ON DRAWINGS, OR AS REQUIRED, USING 1/2 INCH THICK PREFORMED EXPANSION JOINT MATERIAL. ANCHOR WITH APPROVED DEVICES TO PREVENT DISPLACEMENT DURING PLACEMENT AND FINISHING. EDGES SHALL BE ROUNDED WITH AN EDGING TOOL. JOINTS SHALL BE FULL DEPTH OF CONCRETE EXCEPT THAT TOP EDGES SHALL BE 1/2 INCH BELOW THE FINISH CONCRETE SURFACE. EXPANSION JOINTS SHALL BE SEALED TO THE SURFACE BY FILLING WITH JOINT SEALING COMPOUND. JOINTS SHALL BE CLEANED AND DRY BEFORE SEALING COMPOUND IS PUT IN PLACE. CONSTRUCTION JOINTS ARE TO BE USED AT CONTRACTION JOINT LOCATIONS TO STOP CONCRETE POURS.
CURING - CONCRETE SHALL BE CURED BY PROTECTING IT AGAINST LOSS OF MOISTURE AND MECHANICAL INJURY FOR AT LEAST THREE DAYS AFTER PLACEMENT. A PIGMENTED LIQUID CURING MEMBRANE SHALL BE APPLIED IMMEDIATELY AFTER FINISHING OPERATION AT THE RATE OF ONE GALLON TO NOT MORE THAN 200 SQUARE FEET.
CLEANING AND SEALING JOINTS - JOINTS SHALL BE FILLED WITH JOINT-SEALING MATERIAL NO LESS THAN 8 HOURS AND WITHIN 2 WEEKS AFTER JOINTS ARE CUT. JUST PRIOR TO SEALING, EACH JOINT SHALL BE THOROUGHLY CLEANED OF ALL FOREIGN MATERIAL INCLUDING ANY MEMBRANE CURING COMPOUND.
TESTING - LABORATORY AND FIELD TESTING SHALL BE AT THE CONTRACTOR'S EXPENSE.
IN ADDITION, ALL RETESTING SHALL BE DONE AT CONTRACTOR'S EXPENSE. DESIGN MIXES AND TESTING REQUIREMENTS FOR THE CONCRETE PAVEMENT SHALL BE AS FOLLOWS:

A. FLEXURAL STRENGTH TESTS OF CONCRETE AS BASIS FOR DESIGN.
B. SLUMP, MODULUS OF RUPTURE AND 7-DAY AND 28-DAY COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE.
C. WHERE THE FLEXURAL STRENGTH OF THE CONCRETE IS SPECIFIED, MAKE ONE STRENGTH TEST AND ONE FLEXURAL TEST FOLLOWING (ASTM C192 AND ASTM C78) FOR EACH 100 CUBIC YARDS OR FRACTION THEREOF PLACED PER DAY. NUMBER OF CYLINDERS SHALL BE THREE FOR STRENGTH TEST AND THREE FOR FLEXURAL TEST. TEST ONE AT THREE DAYS, ONE AT SEVEN DAYS AND ONE AT 28 DAYS.

5. PAVEMENT MARKING

5-01 QUALITY ASSURANCE

WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS IN A NEAT AND ACCURATE MANNER. ALL EQUIPMENT SHALL BE OF A TYPE AND DESIGN WHICH WILL READILY OBTAIN THE REQUIRED UNIFORMITY OF APPLICATION OF THE PAVEMENT MARKINGS BOTH AS TO THICKNESS OF COATING AND AS TO ALIGNMENT.

5-02 REFERENCE STANDARDS

THE FOLLOWING PUBLICATIONS OF THE ISSUE LISTED BELOW, BUT REFERRED TO THEREAFTER BY BASIC DESIGNATION ONLY, FORM A PART OF THIS SPECIFICATION TO THE EXTENT INDICATED BY THE REFERENCES THERETO:
A. SECTIONS 710 AND 711 OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
B. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.

5-03 SUBMITTALS

SUBMIT PAINT TESTS, AS SPECIFIED IN SECTION 971 OF THE FDOT SPECIFICATIONS AND AS APPLICABLE TO HEREINAFTER SPECIFIED MATERIAL.

5-04 MATERIALS AND COLORS

THERMOPLASTIC - IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 711 OF THE FDOT SPECIFICATIONS.
PAINT - IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN SECTION 971-12, CODE T-2 OF THE FDOT SPECIFICATIONS, LATEX PAINT ONLY.
COLORS - YELLOW AND WHITE PER FDOT, OR AS INDICATED ON THE DRAWINGS.

5-05 EXECUTION

TIME OF APPLICATION - PAINTING SHALL BE DONE ONLY DURING DAYLIGHT HOURS AND, AS FAR AS PRACTICAL, SHALL BE TERMINATED IN TIME TO PERMIT SUFFICIENT DRYING BY SUNSET.
WEATHER LIMITATIONS - NO PAINT SHALL BE APPLIED WHEN ANY MOISTURE IS PRESENT ON THE SURFACE TO BE PAINTED OR WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES FAHRENHEIT. PAINTING SHALL NOT BE DONE WHEN WINDS ARE SUFFICIENT TO CAUSE SPRAY DUST.
PREPARATION OF SURFACE TO BE PAINTED - THE SURFACE WHICH IS TO BE PAINTED SHALL BE CLEANED, BY COMPRESSED AIR OR OTHER EFFECTIVE MEANS, IMMEDIATELY BEFORE THE START OF PAINTING AND SHALL BE CLEAN AND DRY WHEN THE PAINT IS APPLIED. ANY VEGETATION OR LOOSE SOILS SHALL BE REMOVED FROM THE PAVEMENT BEFORE STRIPING IS BEGUN.
MIXING PAINT - THE PAINT SHALL BE THOROUGHLY MIXED BEFORE IT IS POURED INTO THE PAINTING MACHINE AND NO THINNING OF THE PAINT IN THE MACHINE WILL BE ALLOWED AT ANY TIME. BEFORE THE START OF EACH DAY'S WORK, THE PAINT CONTAINER, CONNECTIONS AND THE SPRAY NOZZLES ON THE MACHINE SHALL BE THOROUGHLY CLEANED WITH PAINT THINNER OR OTHER SUITABLE CLEANER.
PAINT APPLICATION - THE TRAFFIC MARKINGS SHALL BE OF THE SPECIFIED DIMENSIONS WITH CLEAN, TRUE EDGES AND WITHOUT SHARP BREAKS IN THE ALIGNMENT. A UNIFORM COATING OF PAINT SHALL BE OBTAINED AND THE FINISHED MARKINGS SHALL CONTAIN NO LIGHT SPOTS OR PAINT SKIPS. ANY STRIPES WHICH DO NOT HAVE A UNIFORM, SATISFACTORY APPEARANCE, BOTH DAY AND NIGHT, SHALL BE CORRECTED.
RATE OF PAINT APPLICATION - THE MINIMUM RATE OF APPLICATION FOR PAINT SHALL BE AS FOLLOWS:
A. FOUR INCH SOLID: 20 GALLONS PER MILE.
B. HANDICAP LOGO: IN CONFORMANCE TO THE REQUIREMENTS OF THIS SECTION AND LOCAL CODES.
C. ANY OTHER WIDTH STRIPE OR MARKINGS: A DIRECT PROPORTION OF THE ABOVE ITEM A.
D. REQUIRED FILM THICKNESS: THE MINIMUM WET FILM THICKNESS FOR ALL PAINTED AREAS SHALL BE 15 MILS.
E. ALIGNMENT OF STRIPES: WHERE A STRIPE DEVIATES FROM THE CORRECT ALIGNMENT, AS INDICATED BY THE STRING LINE, BY MORE THAN ONE INCH IN ANY 20 FOOT LENGTH, IT SHALL BE OBLITERATED AND THE STRIPE CORRECTED HEREINAFTER AS SPECIFIED IN SECTION 5-08 CORRECTIVE MEASURES.

5-06 PROTECTION OF PAINTED MARKINGS

PROTECTION OF STRIPES - ALL NEWLY PAINTED STRIPES, OR OTHER MARKINGS, SHALL BE PROTECTED UNTIL THE PAINT IS SUFFICIENTLY DRY TO PERMIT VEHICLES TO CROSS THE MARKING WITHOUT DAMAGE FROM THE TIRES.
REPAIR OF DAMAGED AREAS - ANY PORTIONS OF THE STRIPES DAMAGED BY PASSING TRAFFIC OR FROM ANY OTHER CAUSE, SHALL BE REPAINTED AT THE CONTRACTOR'S EXPENSE.

5-07 DIMENSION AND ALIGNMENT TOLERANCE

DIMENSIONS - NO MARKING SHALL BE LESS THAN THE SPECIFIED WIDTH. NO MARKINGS SHALL EXCEED THE SPECIFIED WIDTH BY MORE THAN ONE-HALF INCH. ALIGNMENT TOLERANCES SHALL BE AS SPECIFIED IN SECTION 5-05 EXECUTION (E).
CORRECTION RATES - ANY CORRECTIONS OF VARIATION IN THE WIDTH OF OR IN THE ALIGNMENT OF STRIPES SHALL NOT BE MADE ABRUPTLY BUT THE STRIPES SHALL BE RETURNED TO THE DESIGN WIDTH AT THE RATE OF AT LEAST 10 FEET FOR EACH 1/2 INCH OF CORRECTION.

5-08 CORRECTIVE MEASURES

ALL PAINTED MARKINGS WHICH FAIL TO MEET THE SPECIFICATIONS, INCLUDING THE PERMISSIBLE TOLERANCES AND THE APPEARANCE REQUIREMENTS, OR ARE MARRED OR DAMAGED BY TRAFFIC OR FROM OTHER CAUSES, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE. ALL DRIP AND SPATTERED PAINT SHALL BE REMOVED. WHENEVER IT IS NECESSARY TO REMOVE PAINT, IT SHALL BE DONE BY MEANS WHICH WILL NOT DAMAGE THE UNDERLYING SURFACE OF THE PAVEMENT. WHEN NECESSARY TO CORRECT A DEVIATION WHICH EXCEEDS THE PERMISSIBLE TOLERANCE IN ALIGNMENT, THAT PORTION OF THE STRIPE AFFECTED SHALL BE REMOVED AND REPAINTED IN ACCORDANCE WITH THESE SPECIFICATIONS.
CORRECTIVE DEVICES - MIS-ALIGNMENT, DEFECTIVE SURFACES, ETC, SHALL BE CORRECTED BY CHEMICAL AGENTS, OR BY ANY OTHER TYPE OF MECHANICAL DEVICE, WHICH WILL EFFECTIVELY REMOVE THE PAINT WITHOUT DAMAGE TO THE PAVEMENT SURFACE, OR WHICH WILL NOT PREVENT THE RE-APPLICATION OF MARKINGS.

5-09 SPARE PAINT

PROVIDE THE OWNER WITH A MINIMUM OF FIVE (5) GALLONS OF TRAFFIC PAINT FROM THE SAME BATCH USED IN APPLICATION OF PAVEMENT MARKINGS. ALSO PROVIDE PAINT SPECIFICATIONS AND THE MANUFACTURER'S IDENTIFICATION NUMBER OF THE PAINT USED.

5-10 MARKING TYPE

ANY PAVEMENT MARKINGS LOCATED WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE THERMOPLASTIC UNLESS OTHERWISE INDICATED. ANY PAVEMENT MARKINGS LOCATED ON-SITE SHALL BE PAINT UNLESS OTHERWISE INDICATED.

CONSTRUCTION TOLERANCES

THE FOLLOWING ARE THE ALLOWABLE DEVIATIONS FROM PROJECT DESIGN GRADES AND GRADIENTS. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONFIRM AND DOCUMENT COMPLIANCE WITH THESE TOLERANCES PRIOR TO PROCEEDING FROM ONE PHASE OF CONSTRUCTION TO THE NEXT:

STORMWATER MANAGEMENT/DRAINAGE FACILITIES
A. PERIMETER CONTAINMENT BERM:
MINIMUM ELEVATION = DESIGN GRADE
MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FOOT
B. WATER CONTROL STRUCTURE:
MINIMUM GRATE ELEVATION = DESIGN GRADE
MAXIMUM GRATE ELEVATION = DESIGN GRADE + 0.10 FOOT
MINIMUM CREST ELEVATION = DESIGN GRADE
MAXIMUM CREST ELEVATION = DESIGN GRADE + 0.05 FOOT
MINIMUM BLEEDER ELEVATION = DESIGN GRADE
MAXIMUM BLEEDER ELEVATION = DESIGN GRADE + 0.05 FOOT
MINIMUM TOP OF FILTER ELEVATION = DESIGN GRADE
MAXIMUM TOP OF FILTER ELEVATION = DESIGN GRADE + 0.05 FOOT
C. CATCH BASINS/INLETS/PIPE INVERTS:
MINIMUM ELEVATION = DESIGN GRADE - 0.05 FOOT
MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FOOT
D. SWALE GRADES/GRADIENTS:
MINIMUM ELEVATION = DESIGN GRADE - 0.10 FOOT
MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FOOT
MINIMUM FLOWLINE GRADIENT = 90% OF DESIGN GRADIENT
E. PAVEMENT GRADES/GRADIENTS:
FLEXIBLE PAVEMENT GRADE:
MINIMUM ELEVATION = DESIGN GRADE - 0.10 FOOT
MAXIMUM ELEVATION = DESIGN GRADE + 0.10 FOOT
FLEXIBLE PAVEMENT GRADIENT = 90% OF DESIGN GRADIENT
(CROSS SLOPE AND LONGITUDINAL SLOPE)
F. RIGID (CONCRETE) PAVEMENT GRADE:
MINIMUM ELEVATION = DESIGN GRADE - 0.05 FOOT
MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FOOT
G. RIGID PAVEMENT GRADIENTS:
MINIMUM GRADIENTS = 90% OF DESIGN GRADIENT
(CROSS SLOPE AND LONGITUDINAL SLOPE)
H. MAXIMUM HANDICAP RAMP = 1:12
(GRADIENT UNLESS OTHERWISE SPECIFIED BY LOCAL CODES)

UNLESS OTHERWISE SPECIFIED BY THE LOCAL UTILITY COMPANIES, THE FOLLOWING ARE THE ALLOWABLE TOLERANCES FOR THESE ACTIVITIES:
I. MANHOLES AND PIPE INVERTS:
MINIMUM ELEVATION = DESIGN GRADE - 0.05 FOOT
MAXIMUM ELEVATION = DESIGN GRADE + 0.05 FOOT
MINIMUM LINE GRADIENT = 90% OF DESIGN GRADIENT
J. ALIGNMENT/LOCATION OF APPURTENANCES:
AS ALLOWED BY THE APPLICABLE UTILITY AND/OR LOCAL GOVERNMENTAL ENTITY. CONTRACTOR SHALL CONFIRM AND DOCUMENT THIS PRIOR TO CONSTRUCTION.

TESTING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING, COORDINATING, DOCUMENTING, AND PROVIDING THE FOLLOWING MINIMUM TESTING:

WATER DISTRIBUTION - UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE LINES SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE. THE LINES SHALL BE TESTED IN SEGMENTS BETWEEN MAINLINE VALVES. BACTERIOLOGICAL TEST SAMPLES SHALL BE TAKEN AT ALL BRANCH LINE TERMINATION POINTS OR CONNECTION POINTS, AND ALONG THE MAIN LINES AT DISTANCES NOT TO EXCEED 2,640 FEET. ALL HYDRANTS AND VALVES SHALL BE OPERATED TO TEST PERFORMANCE. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 HOURS NOTICE TO THE ENGINEER OF RECORD PRIOR TO TESTING.
WASTEWATER COLLECTION - UNLESS OTHERWISE SPECIFIED BY THE UTILITY COMPANY, THE FORCE MAIN SHALL BE PRESSURE TESTED TO THE RATING OF THE PIPE. VALVES SHALL BE OPERATED TO TEST PERFORMANCE. DEPENDING UPON WATER TABLE CONDITIONS DETERMINED BY THE ENGINEER, THE GRAVITY LINES SHALL BE TESTED FOR EITHER INFILTRATION OR EXFILTRATION AND INFLOW. THERE SHALL BE NO INFILTRATION / EXFILTRATION OR INFLOW ALLOWED. THE CONTRACTOR SHALL SEAL ANY PIPE, FITTING OR MANHOLE AS REQUIRED. THE CONTRACTOR SHALL PROVIDE A VIDEO TAPE OF ALL MAIN GRAVITY LINES ALONG WITH A LOG OF LATERAL LOCATIONS. ALL ELECTRICAL AND MECHANICAL DEVICES AT LIFT STATIONS SHALL BE TESTED TO VERIFY PROPER OPERATIONAL STATUS. THE CONTRACTOR SHALL PROVIDE MAINTENANCE MANUALS TO THE OWNER. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 36 HOURS NOTICE TO THE ENGINEER OF RECORD PRIOR TO TESTING.
PRIVATE ROADWAY/PARKING SUBGRADE - THE SUBGRADE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF. DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 10,000 SF. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.
PRIVATE ROADWAY/PARKING BASE - THE BASE SHALL BE TESTED FOR THE LBR VALUE AT A FREQUENCY OF ONE PER 10,000 SF. DENSITY TESTS SHALL BE PERFORMED AT A FREQUENCY OF TWO PER 10,000 SF. A SIEVE ANALYSIS SHALL BE PERFORMED AT A FREQUENCY OF ONE PER ACRE. THICKNESS SHALL BE MEASURED AT EACH DENSITY TEST LOCATION.
A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.
PRIVATE ASPHALT PAVING - ASPHALTIC CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS:
THICKNESS, SIEVE ANALYSIS, MIX TYPE, STABILITY, % BITUMEN, AND DENSITY. THE ASPHALT SHALL BE TESTED AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.
PUBLIC ROADWAYS - AS REQUIRED BY THE ENTITY HAVING JURISDICTION. THE CONTRACTOR SHALL DETERMINE AND DOCUMENT THESE SPECIFICATIONS PRIOR TO BIDDING.
PORTLAND CEMENT CONCRETE - CONCRETE SHALL BE TESTED FOR THE FOLLOWING PARAMETERS:
SLUMP, MODULUS OF RUPTURE, AND 7 AND 28 DAY COMPRESSIVE STRENGTH. TESTS SHALL BE PERFORMED ON SAMPLES TAKEN AT THE SITE AT A FREQUENCY OF TWO PER ACRE. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.
RETENTION/DETENTION FACILITIES - IF INCLUDED WITHIN THE PROJECT, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND PERFORM A DRAWDOWN AND CAPACITY TEST OF THE FACILITIES. THE CONTRACTOR SHALL PROVIDE SUFFICIENT WATER AND ACCEPTABLE MEANS TO MEASURE THE WATER VOLUMES PROVIDED, IF REQUIRED BY THE ENGINEER. IF A FILTRATION SYSTEM IS INCLUDED WITHIN THE PROJECT, THE FILTER MEDIA SHALL BE TESTED FOR COMPLIANCE WITH ALL CURRENT SPECIFICATIONS OF THE WATER MANAGEMENT DISTRICT. A PROFESSIONAL ENGINEER'S CERTIFICATION OF COMPLIANCE SHALL BE PROVIDED BY THE TESTING LAB.
IN ADDITION TO THE ENVIRONMENTAL PROTECTION DURING CONSTRUCTION SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING IN THE ORDER LISTED:

A. PRIOR TO COMMENCEMENT, PROVIDE NOTIFICATION TO THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND LOCAL GOVERNMENT.
B. PREPARE AND SUBMIT A NPDES NOTICE OF CONSTRUCTION TO THE EPA.
C. ERECT A TURBIDITY SCREEN ON ANY DOWNSTREAM SYSTEM WHICH RECEIVES RUNOFF FROM THE PROJECT. INSTALL OUTFALL CONTROL STRUCTURE AND FILTRATION SYSTEM IF INCLUDED.
D. PROVIDE A TEMPORARY FILTER CLOTH COVERED WITH GRAVEL OVER ANY PROPOSED FILTERS.
E. INSTALL A TEMPORARY TURBIDITY SCREEN AT ALL CONTROL STRUCTURES.
F. CONSTRUCT A TEMPORARY PERIMETER BERM AS NECESSARY TO DIRECT ALL RUNOFF WITHIN ANY AREA PLANNED FOR CLEARING.
G. MAINTAIN FILTER DURING CONSTRUCTION TO PROVIDE CONTINUOUS OPERATION.
H. UPON PERFORMING FINAL GRADING, THE CONTRACTOR SHALL REMOVE ALL SILTS, CLAYS AND OTHER DELETERIOUS MATERIAL FROM THE BOTTOM OF ALL STORMWATER MANAGEMENT AREAS PRIOR TO GRASSING.
I. AFTER ACHIEVING A NON-ERODIBLE COVER OF GRASS, REMOVE TEMPORARY FILTER CLOTH AND GRAVEL OVER FILTERS AND REPLACE WITH NEW FILTER CLOTH AND COVER MATERIAL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
J. NOTIFY THE OWNER FOR FINAL INSPECTION.
K. UPON FINAL APPROVAL FROM THE OWNER, REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES.

OPERATION AND MAINTENANCE OF STORMWATER SYSTEMS

STORMWATER STRUCTURES AND PIPES SHOULD BE INSPECTED AT LEAST ANNUALLY TO DETERMINE IF THEY NEED TO BE CLEANED. TYPICALLY, A CATCH BASIN OR INLET STRUCTURE SHOULD BE CLEANED IF THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE-THIRD THE DEPTH FROM THE BASIN TO THE INVERT OF THE LOWEST PIPE OR OPENING INTO OR OUT OF THE BASIN. IF THE DEPOSITS SIGNIFICANTLY EXCEEDS THE ONE-THIRD DEPTH STANDARD DURING THE ANNUAL INSPECTION, THEN IT SHOULD BE CLEANED MORE FREQUENTLY. IF WOODY DEBRIS, GRASS CUTTINGS OR TRASH ACCUMULATES IN A CATCH BASIN, THEN IT SHOULD BE CLEANED ON AT LEAST A WEEKLY BASIS. INLET GRATES SHOULD BE INSPECTED AFTER EACH MOWING OPERATION AND ANY CUTTINGS OR DEBRIS SHOULD BE REMOVED. STORMWATER STRUCTURES AND PIPES CAN BE CLEANED EITHER MANUALLY OR BY BUCKET LOADERS OR VACUUM PUMPS. MATERIAL REMOVED FROM STRUCTURES IS USUALLY DISPOSED IN CONVENTIONAL LANDFILLS. HOWEVER, THIS MATERIAL SHOULD BE TESTED TO ENSURE THAT IT IS NOT HAZARDOUS WASTE (EPA CRITERIA) BEFORE ANY MATERIALS CAN BE DISPOSED.

STORMWATER PONDS

PERIODIC VISUAL INSPECTIONS FOR ANY DEBRIS (PAPER AND PLASTIC TRASH, GRASS CLIPPINGS, ETC.) WITHIN THE STORMWATER POND SHALL BE PERFORMED. ANY DEBRIS FOUND ON TOP OF THE SAND FILTER SHALL BE REMOVED. VEGETATION WITHIN THE STORMWATER MANAGEMENT SYSTEMS (SOD, GRASS, ETC.) SHALL BE MAINTAINED AT A HEIGHT NO GREATER THAN SIX (6") INCHES. ALL GRASS CLIPPINGS SHALL BE REMOVED FROM THE STORMWATER POND. ANY EROSION PROBLEMS ENCOUNTERED WITHIN THE STORMWATER MANAGEMENT SYSTEM (STORMWATER POND, SWALES, GRASSED AREAS, ETC.) SHALL BE FILLED IN AND SODDED. ANY SOD PLACED IN THE STORMWATER POND BOTTOM SHALL BE OF THE SAND (BASE) GROWN VARIETY. IF CATTAILS HAVE PROPAGATED IN ISOLATED AREAS OF THE STORMWATER POND, THEY ARE TO BE REMOVED BY HAND.

SAND FILTERS

IF, AFTER ANY AVERAGE RAINFALL EVENT (1 TO 2 INCHES), THERE IS STANDING WATER IN THE DETENTION POND 36 HOURS (1.5 DAYS) AFTER THE RAINFALL EVENT, THE SAND FILTER WILL BE SUBJECT TO THE FOLLOWING MAINTENANCE PROCEDURES:
A. REMOVE AND TEMPORARILY STOCKPILE ON FILTER CLOTH (OR EQUIVALENT), THE 3"± GRAVEL CAP ON TOP OF THE SAND FILTER.
B. REMOVE AND PROPERLY DISPOSE OF THE FILTER CLOTH FOUND ON TOP OF THE SAND FILTER
C. INSPECT THE TOP OF THE SAND FILTER FOR EVIDENCE OF SEDIMENTS, SILTS, ETC. (I.E., DISCOLORATION, ALGAE, ETC.) FILLING THE VOIDS OF THE SAND MEDIA. IF NO SEDIMENTS, SILTS, ETC. ARE FOUND IN THE SAND FILTER MEDIA, GO TO STEP D BELOW. IF SEDIMENTS, SILTS, ETC. ARE FOUND IN THE SAND MEDIA THE FOLLOWING PROCEDURES SHALL BE IMPLEMENTED:
1. LOCATE THE LIMITS OF THE SAND FILTER. THE PVC LINER ON THE SIDES OF THE SAND FILTER ARE A GOOD INDICATION OF THE LIMITS OF THE SAND FILTER.
2. REMOVE THE TOP SIX (6") INCHES OF SAND FILTER MEDIA. BE CAREFUL NOT TO PUNCTURE THE PVC LINER ON THE SIDES OF THE SAND FILTER.
3. PROPERLY DISPOSE OF THE SPENT FILTER MEDIA.
4. REPLACE THE SPENT SAND FILTER MEDIA WITH SAND FILTER MEDIA MEETING THE FOLLOWING SPECIFICATIONS:
FILTER MATERIAL TO BE OF A FINE GRANULAR MEDIA; TO BE OF A UNIFORM COEFFICIENT OF 1.5 OR GREATER AND HAVE AN EFFECTIVE GRAIN SIZE OF 0.20 TO 0.55 MILLIMETERS. NO LIME ROCK OR SHELL MATERIAL CAN BE USED AS FILTER MEDIA.
5. GO TO STEP D BELOW.
D. REPLACE THE FILTER CLOTH WITH NEW FILTER CLOTH AND INSTALL THE THREE (3") INCH GRAVEL CAP AS ORIGINALLY FOUND.
E. TEMPORARILY BLOCK OFF THE OUTFALL PIPE IN CONTROL STRUCTURE. LOCATE THE CLEAN OUT AT THE BEGINNING OF THE SAND FILTER (END FURTHEST FROM THE CONTROL STRUCTURE). REMOVE THE CLEAN OUT CAP. INSERT A HIGH PRESSURE HOSE INTO THE CLEAN OUT AND FORCE WATER INTO THE SAND FILTER PIPE. MONITOR DISCHARGE FLOWS FROM THE SAND FILTER IN THE CONTROL STRUCTURE FOR SEDIMENTS. CONTINUE TO FORCE WATER INTO THE CLEAN OUT UNTIL THERE ARE NO SEDIMENTS FOUND IN THE DISCHARGED WATER AT THE CONTROL STRUCTURE. REMOVE AND PROPERLY DISPOSE OF ANY SEDIMENTS FOUND IN THE CONTROL STRUCTURE.

IF THESE MAINTENANCE PROCEDURES FAIL TO DRAIN THE STORMWATER WITHIN 36 HOURS, CONTACT THE ENGINEER OF RECORD FOR FURTHER INSTRUCTIONS.

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Office No. (727) 894-0404
Registry No. 30184

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

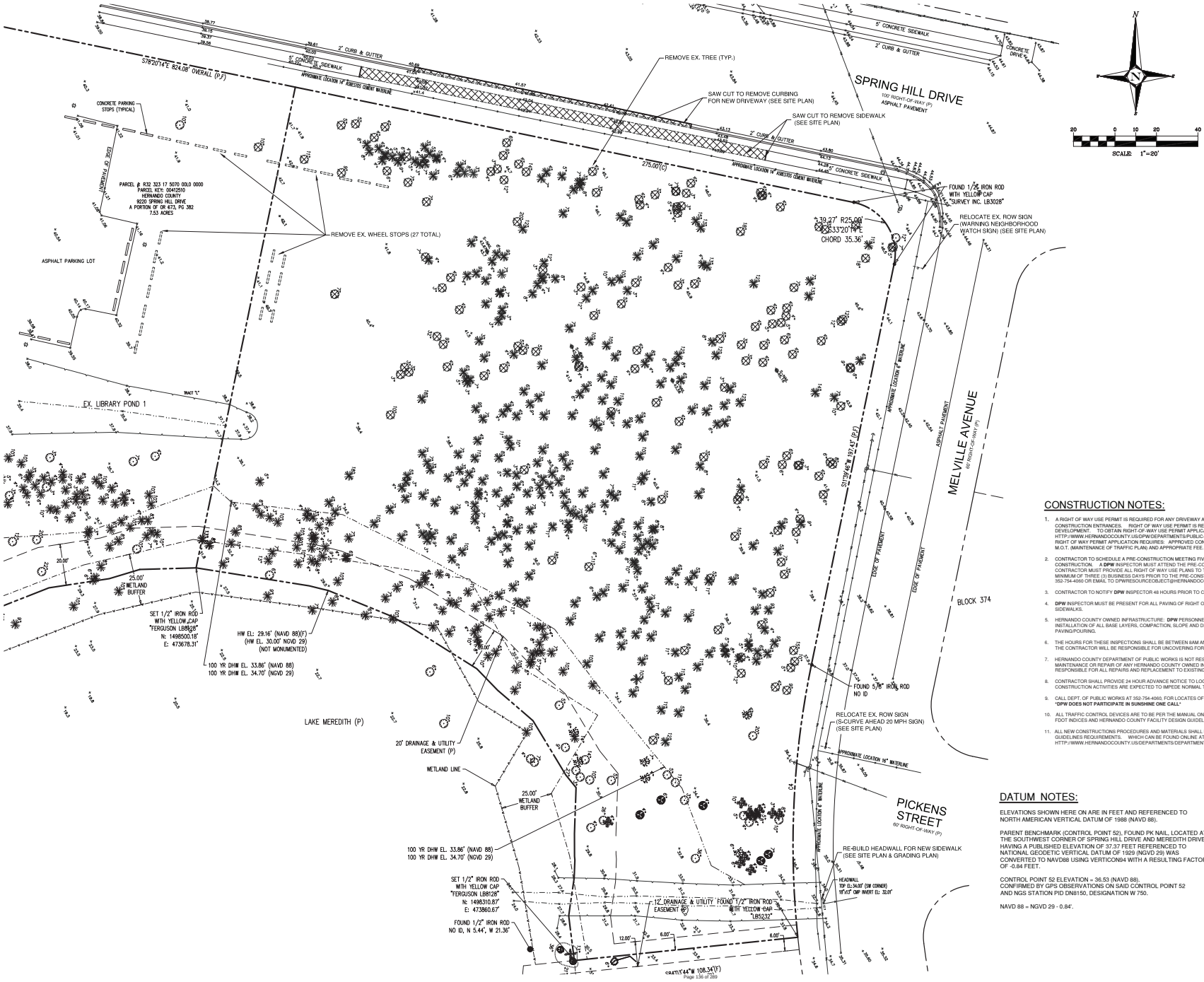
Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

GENERAL NOTES & SPECIFICATIONS

C1



CONSTRUCTION NOTES:

1. A RIGHT OF WAY USE PERMIT IS REQUIRED FOR ANY DRIVEWAY AND WORK IN COUNTY RIGHT OF WAY, INCLUDING CONSTRUCTION ENTRANCES. RIGHT OF WAY USE PERMIT IS REQUIRED TO BE OBTAINED PRIOR TO ANY SITE DEVELOPMENT. TO OBTAIN RIGHT-OF-WAY USE PERMIT APPLICATION: HTTP://WWW.HERNANDOCOUNTY.US/DPW/DEPARTMENTS/PUBLIC-WORKS/RIGHT-OF-WAY-PERMITS. RIGHT OF WAY PERMIT APPLICATION REQUIRES: APPROVED CONSTRUCTION PLANS (PERMITTED SET) AND M.O.T. (MAINTENANCE OF TRAFFIC PLAN) AND APPROPRIATE FEE.
2. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. A **DPW** INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING. CONTRACTOR MUST PROVIDE ALL RIGHT OF WAY USE PLANS TO THE **DPW** INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. CONTACT **DPW** INSPECTORS AT 352-754-4060 OR EMAIL TO DPWRESOURCEOBJECT@HERNANDOCOUNTY.US.
3. CONTRACTOR TO NOTIFY **DPW** INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT OF WAY.
4. **DPW** INSPECTOR MUST BE PRESENT FOR ALL PAVING OF RIGHT OF WAYS AND INSPECT PRIOR TO POURING CONCRETE SIDEWALKS.
5. HERNANDO COUNTY OWNED INFRASTRUCTURE: **DPW** PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL BASE LAYERS, COMPACTION, SLOPE AND DEPTH HAS BEEN DONE PER PLAN BEFORE BURYING/ PAVING/POURING.
6. THE HOURS FOR THESE INSPECTIONS SHALL BE BETWEEN 8AM AND 3PM. IF **DPW** HAS NOT INSPECTED BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.
7. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS IS NOT RESPONSIBLE FOR ONSITE DAMAGE ASSOCIATED WITH THE MAINTENANCE OR REPAIR OF ANY HERNANDO COUNTY OWNED INFRASTRUCTURE. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURBING, ASPHALT, CONCRETE, ETC.
8. CONTRACTOR SHALL PROVIDE 24 HOUR ADVANCE NOTICE TO LOCAL EMERGENCY SERVICE DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.
9. CALL DEPT. OF PUBLIC WORKS AT 352-754-4060, FOR LOCATES OF FIBER OPTIC, 72 HOURS PRIOR TO DIGGING. **"DPW DOES NOT PARTICIPATE IN SUNSHINE ONE CALL"**
10. ALL TRAFFIC CONTROL DEVICES ARE TO BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT INDICES AND HERNANDO COUNTY FACILITY DESIGN GUIDELINES.
11. ALL NEW CONSTRUCTIONS PROCEDURES AND MATERIALS SHALL MEET OR EXCEED HERNANDO COUNTY FACILITY DESIGN GUIDELINES REQUIREMENTS. WHICH CAN BE FOUND ONLINE AT: HTTP://WWW.HERNANDOCOUNTY.US/DEPARTMENTS/DEPARTMENTS-N-Z/PUBLIC-WORKS/FACILITY-DESIGN-GUIDELINES.

DATUM NOTES:

ELEVATIONS SHOWN HERE ON ARE IN FEET AND REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PARENT BENCHMARK (CONTROL POINT 52), FOUND PK NAIL, LOCATED AT THE SOUTHWEST CORNER OF SPRING HILL DRIVE AND MEREDITH DRIVE, HAVING A PUBLISHED ELEVATION OF 37.37 FEET REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) WAS CONVERTED TO NAVD88 USING VERTICON94 WITH A RESULTING FACTOR OF -0.84 FEET.

CONTROL POINT 52 ELEVATION = 36.53 (NAVD 88).
CONFIRMED BY GPS OBSERVATIONS ON SAID CONTROL POINT 52 AND NGS STATION PID DN8150, DESIGNATION W 750.

NAVD 88 = NGVD 29 - 0.84'.

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Project number 1932

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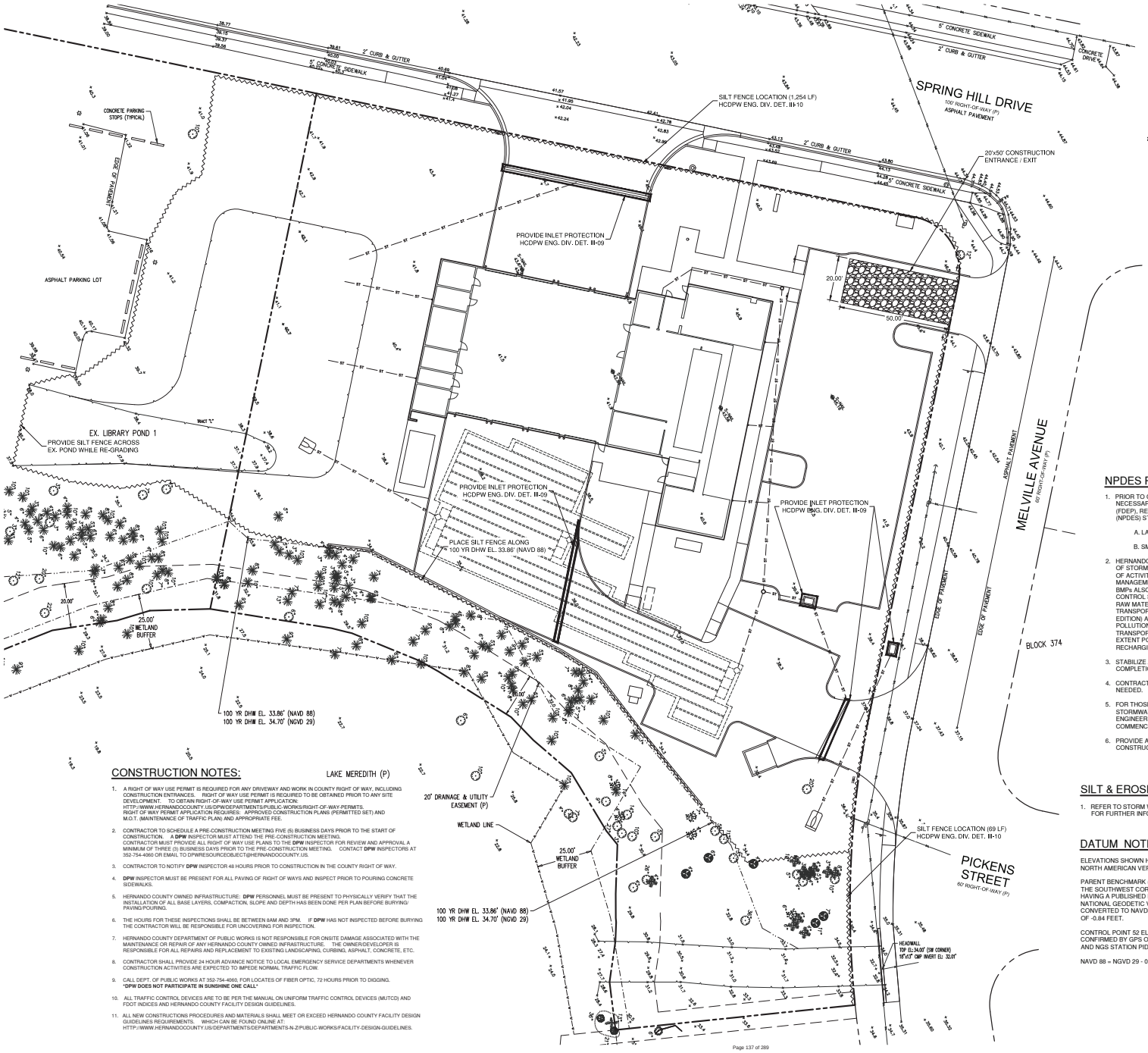
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 1 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

EXISTING CONDITIONS / DEMOLITION PLAN

C2



CONSTRUCTION SEQUENCING:

1. **INSTALL SILT FENCING & INLET PROTECTION WHERE INDICATED.**
2. **INSTALL CONSTRUCTION ENTRANCE / EXIT WHERE INDICATED.**
3. **CLEAR & GRUB SITE.**
4. **EXCAVATE FOR STORMWATER SYSTEMS.**
5. **CONDUCT EARTHWORK WHILE DIRECTING ALL RUNOFF INTO STORMWATER SYSTEMS.**
6. **STABILIZE DISTURBED AREAS.**
7. **REMOVE SILT & SEDIMENT FROM STORMWATER POND, DRAINAGE PIPES AND INLETS. STABILIZE POND BANKS.**
8. **REMOVE SILT & EROSION CONTROL DEVICES.**

NPDES REQUIREMENTS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION THE DEVELOPER/OWNER SHALL OBTAIN THE NECESSARY PERMIT, FROM STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), REQUIRED TO COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER REGULATORY PROGRAM AND HERNANDO COUNTY'S NPDES ORDNANCE.

   A. LARGE CONSTRUCTION ACTIVITY IS DEFINED IN 40 CFR PART 122.26(b)(14)(x)

   B. SMALL CONSTRUCTION ACTIVITY IS DEFINED IN 40 CFR PART 122.26(b)(14)

2. HERNANDO COUNTY REQUIRES THAT ALL CONSTRUCTION ACTIVITY INCLUDE THE IMPLEMENTATION OF STORMWATER CONTROL "BEST MANAGEMENT PRACTICES" (BMPs) MEANING THOSE SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF SURFACE WATERS. BMPs ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. REFERENCE IS MADE TO SECTION 104, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND F.D.E.P. NPDES STORMWATER PROGRAM, AND GUIDANCE FOR STORMWATER POLLUTION PREVENTION. THE APPLICABLE MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE TRANSPORTATION OF SILTS AND SEDIMENTS OFF SITE AND TO ELIMINATE, TO THE GREATEST EXTENT POSSIBLE, THE CONTAMINATION OF SURFACE WATERS FLOWING OFF-SITE OR RECHARGING ON-SITE.
3. STABILIZE ALL DISTURBED SOILS WITHIN SEVEN DAYS OF NO CONSTRUCTION, PROJECT COMPLETION, OR FINAL INSPECTION, WHICHEVER OCCURS FIRST.
4. CONTRACTOR SHALL CLEAN UP ALL FUGITIVE SOILS AT A MINIMUM WEEKLY OR MORE OFTEN AS NEEDED.
5. FOR THOSE SITES REQUIRING A FDEP PERMIT, AS DESCRIBED ABOVE, A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE PROVIDED TO THE HERNANDO COUNTY ENGINEERING OFFICE, 1525 EAST JEFFERSON STREET, BROOKSVILLE, FLORIDA 34601, PRIOR TO COMMENCING CONSTRUCTION.
6. PROVIDE A COPY OF THE NOTICE OF TERMINATION TO THE COUNTY ENGINEERS OFFICE WHEN CONSTRUCTION IS COMPLETE, AS ABOVE.

SILT & EROSION CONTROL NOTE:

1. REFER TO STORM WATER POLLUTION PREVENTION PLAN (SHEET C5) FOR FURTHER INFORMATION ON SILT & EROSION CONTROL METHODS.

DATUM NOTES:

ELEVATIONS SHOWN HERE ON ARE IN FEET AND REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PARENT BENCHMARK (CONTROL POINT 52), FOUND PK NAIL, LOCATED AT THE SOUTHWEST CORNER OF SPRING HILL DRIVE AND MEREDITH DRIVE, HAVING A PUBLISHED ELEVATION OF 37.37 FEET REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) WAS CONVERTED TO NAVD88 USING VERTICON94 WITH A RESULTING FACTOR OF -0.84 FEET.

CONTROL POINT 52 ELEVATION = 36.53 (NAVD 88).
CONFIRMED BY GPS OBSERVATIONS ON SAID CONTROL POINT 52 AND NGS STATION PID DN8150, DESIGNATION W 750.

NAVD 88 = NGVD 29 - 0.84'.

CONSTRUCTION NOTES:

1. A RIGHT OF WAY USE PERMIT IS REQUIRED FOR ANY DRIVEWAY AND WORK IN COUNTY RIGHT OF WAY, INCLUDING CONSTRUCTION ENTRANCES. RIGHT OF WAY USE PERMIT IS REQUIRED TO BE OBTAINED PRIOR TO ANY SITE DEVELOPMENT. TO OBTAIN RIGHT-OF-WAY USE PERMIT APPLICATION: HTTP://WWW.HERNANDOCOUNTY.US/DPW/DEPARTMENTS/PUBLIC-WORKS/RIGHT-OF-WAY-PERMITS. RIGHT OF WAY PERMIT APPLICATION REQUIRES: APPROVED CONSTRUCTION PLANS (PERMITTED SET) AND M.O.T. (MAINTENANCE OF TRAFFIC PLAN) AND APPROPRIATE FEE.
2. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. A **DPW** INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING. CONTRACTOR MUST PROVIDE ALL RIGHT OF WAY USE PLANS TO THE **DPW** INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. CONTACT **DPW** INSPECTORS AT 352-754-4060 OR EMAIL TO DPWRESOURCEOBJECT@HERNANDOCOUNTY.US.
3. CONTRACTOR TO NOTIFY **DPW** INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT OF WAY.
4. **DPW** INSPECTOR MUST BE PRESENT FOR ALL PAVING OF RIGHT OF WAYS AND INSPECT PRIOR TO POURING CONCRETE SIDEWALKS.
5. HERNANDO COUNTY OWNED INFRASTRUCTURE: **DPW** PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL BASE LAYERS, COMPACTION, SLOPE AND DEPTH HAS BEEN DONE PER PLAN BEFORE BURYING/ PAVING/POURING.
6. THE HOURS FOR THESE INSPECTIONS SHALL BE BETWEEN 6AM AND 3PM. IF **DPW** HAS NOT INSPECTED BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.
7. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS IS NOT RESPONSIBLE FOR ONSITE DAMAGE ASSOCIATED WITH THE MAINTENANCE OR REPAIR OF ANY HERNANDO COUNTY OWNED INFRASTRUCTURE. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURBING, ASPHALT, CONCRETE, ETC.
8. CONTRACTOR SHALL PROVIDE 24 HOUR ADVANCE NOTICE TO LOCAL EMERGENCY SERVICE DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.
9. CALL DEPT. OF PUBLIC WORKS AT 352-754-4060, FOR LOCATES OF FIBER OPTIC, 72 HOURS PRIOR TO DIGGING. **"DPW DOES NOT PARTICIPATE IN SUNSHINE ONE CALL"**
10. ALL TRAFFIC CONTROL DEVICES ARE TO BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT INDICES AND HERNANDO COUNTY FACILITY DESIGN GUIDELINES.
11. ALL NEW CONSTRUCTIONS PROCEDURES AND MATERIALS SHALL MEET OR EXCEED HERNANDO COUNTY FACILITY DESIGN GUIDELINES REQUIREMENTS. WHICH CAN BE FOUND ONLINE AT: HTTP://WWW.HERNANDOCOUNTY.US/DEPARTMENTS/DEPARTMENTS-N-Z/PUBLIC-WORKS/FACILITY-DESIGN-GUIDELINES.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 1 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

SILT & EROSION CONTROL PLAN

C3

CONSTRUCTION ENTRANCE/EXIT DETAIL

NOT TO SCALE

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL FL 34608

Project number
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DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

SILT & EROSION CONTROL DETAILS

C4

STORM WATER POLLUTION PREVENTION PLAN

SITE DESCRIPTION:

PROJECT NAME & LOCATION:

HERNANDO COUNTY FIRE STATION #5
9252 SPRING HILL DRIVE, SPRING HILL, FLORIDA 34608

*SEE COVER SHEET FOR LOCATION MAP

DEVELOPER NAME & ADDRESS:

CONTRACTOR NAME
CONTRACTOR ADDRESS
CITY, FLORIDA ZIP

PROJECT DESCRIPTION:

THE PROJECT WILL CONSIST OF A FIRE STATION BUILDING WITH PARKING LOT AND STORM WATER MANAGEMENT.

CONTRIBUTING DRAINAGE AREA: 7.53 ACRES

ULTIMATE RECEIVING WATERS: LAKE MEREDITH (HERNANDO COUNTY CLOSED SYSTEM)

ACTIVITIES THAT REQUIRE EROSION CONTROL:

SITE CLEARING & GRUBBING; PROVIDING A STABILIZED CONSTRUCTION ENTRANCE, PERIMETER, AND OTHER EROSION AND SEDIMENT CONTROLS; SITE GRADING; INSTALLATION OF STORM WATER, SANITARY SEWER AND WATER INFRASTRUCTURE; CURB & GUTTER, DRIVEWAYS AND SIDEWALKS; LANDSCAPING.

*SEE PLANS FOR THE LOCATION OF TEMPORARY SEDIMENT BARRIERS AND OTHER EROSION CONTROL METHODS.

SEQUENCE OF MAJOR ACTIVITIES:

THE ORDER OF CONSTRUCTION IS AS FOLLOWS:

1. CONTRACTOR SHALL PREPARE & FILE SWPPP AND NPDES NOI.
2. PROVIDE/INSTALL STABILIZED CONSTRUCTION ENTRANCE
3. INSTALL SILT FENCES AND OTHER PERIMETER CONTROLS
4. CLEAR & GRUB FOR DIVERSION SWALED/DIKES AND SEDIMENT BASINS
5. CONSTRUCT SEDIMENTATION BASIN
6. CONTINUE CLEARING & GRUBBING
7. STOCK PILE TOP SOIL IF REQUIRED
8. PERFORM PRELIMINARY GRADING ON SITE AS REQUIRED
9. STABILIZE DENUDED AREAS & STOCKPILES AS SOON AS IS COMPLETE
10. INSTALL STORM SEWER & IRRIGATION
11. COMPLETE GRADING & INSTALL PERMANENT SEEDING/SOD & PLANTING
12. REMOVE ACCUMULATED SEDIMENT FROM BASINS
13. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RE-SEED/SOD AS REQUIRED

TIMING OF CONTROL MEASURES:

THE INSTALLATION OF SILT FENCE (AND OTHER EROSION CONTROL MEASURES), A STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING AND GRUBBING ACTIVITY. AFTER CONSTRUCTION IS COMPLETE, THE ACCUMULATED SEDIMENT SHALL BE REMOVED AND THE AREAS SHALL BE RE-GRADED AND PERMANENTLY STABILIZED AS SHOWN ON THE PLANS.

EROSION AND SEDIMENT CONTROLS:

BEST MANAGEMENT PRACTICES SHALL BE USED FOR THIS PROJECT TO CONTROL EROSION AND TURBIDITY CAUSED BY STORM WATER RUN-OFF. THE LOCATION AND DETAILS OF EROSION CONTROL METHODS ARE SHOWN ON THE PLANS. THE SUB-CONTRACTOR(S) IS/ARE RESPONSIBLE FOR PLACING AND MAINTAINING THESE CONTROL METHODS AS SHOWN ON THE PLANS OR AS REQUIRED. HE/SHE SHALL ALSO PROVIDE THE REQUIRED EROSION. PROTECTION AS REQUIRED BY LOCAL, STATE AN FEDERAL LAW.

STROMWATER MANAGEMENT:

STORM WATER COLLECTION SHALL BE PROVIDED BY DRAINAGE INLETS FOR THE DEVELOPED AREAS. THE AREAS THAT ARE RE-GRADED BUT NO DEVELOPED SHALL BE STABILIZED IMMEDIATELY AFTER REGRADING. THE ENTIRE SITE SHALL DRAIN TO A SWM SYSTEM. THE SWM SYSTEM (WET RETENTION) SHALL BE IN THE AREA OF THE TEMPORARY SEDIMENT BASINS. WHEN SLOPES HAVE BEEN STABILIZED, THE SEDIMENT THAT HAS ACCUMULATED SHALL BE REMOVED FROM THE BASIN AND THE APPROPRIATE VEGETATION SHALL BE PLANTED.

STABILIZATION PRACTICES:

TEMPORARY STABILIZATION - TOPSOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASE FOR AT LEAST 21 DAYS, SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED REQUIRED CAN BE FOUND IN TABLE 1.65A OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, WHERE SOILS ARE ACIDIC 2 TONS OF PULVERIZED AGRICULTURAL LIMESTONE SHOULD BE ADDED PER ACRE AND 450 POUNDS OF 10-20-20 FERTILIZER SHALL BE APPLIED TO EACH ACRE. AFTER SEEDING, EACH AREA SHALL BE IMMEDIATELY MULCHED WITH STRAW OR EQUIVALENT EQUAL. AREAS OF THE SITE WHICH ARE TO BE PAVED SHALL BE TEMPORARILY STABILIZED BY APPLYING GEOTEXTILE AND STONE SUB-BASE UNTIL BITUMINOUS PAVEMENT CAN BE APPLIED.

PERMANENT STABILIZATION - DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASES SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE APPROPRIATE PERMANENT SEED MIX CAN BE FOUND IN TABLES 1.66A, 1.66B AND 1.66C OF THE FLORIDA DEVELOPMENT MANUAL. PRIOR TO SEEDING, 2 TONS/ACRE OF FINELY GROUND AGRICULTURAL LIMESTONE AND THE PROPER FERTILIZER BASED ON THE TYPE OF SEEDING SHALL BE APPLIED TO EACH ACRE TO PROVIDE PLANT NUTRIENTS. AFTER SEEDING, EACH AREA SHALL BE MULCHED IMMEDIATELY.

STRUCTURAL PRACTICES:

EARTH DIKE - IF REQUIRED, AN EARTH DIKE SHALL BE CONSTRUCTED ALONG THE SITE PERIMETER. A PORTION OF THE DIKE SHALL DIVERT RUN-ON AROUND THE CONSTRUCTION SITE. THE REMIANING PORTION OF THE DIKE SHALL COLLECT RUNOFF FROM DISTURBED AREA AND DIRECT THE RUNOFF TO THE SEDIMENT BASIN.

SEDIMENT BASIN - A SEDIMENT BASIN SHALL BE CONSTRUCTED IN THE COMMON DRAINAGE AREA FOR THE SITE. THIS STORAGE POND SHALL HAVE A VOLUME OF 3,600 CUBIC FEET OF STORAGE FOR EACH ACRE. ALL SEDIMENT COLLECTED IN THE BASIN MUST BE REMOVED FROM THE BASIN UPON COMPLETION OF CONSTRUCTION. SEDIMENT FROM THE BASIN MAY BE USED AS FILL ON THE SITE IF IT IS SUITABLE SOIL.

WASTE DISPOSAL:

WASTE MATERIALS - ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A METAL DUMPSTER WITH A SECURE LID IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITIES TO HAVE THE DUMPSTER EMPTIED AT LEAST TWICE A WEEK AND THE WASTE TAKEN TO AN APPROPRIATE LANDFILL. NO CONSTRUCTION WASYE MATERIALS SHALL BE BURIED ON SITE. THE SUPERINTENDENT SHALL ORGANIZE TRAINING FOR THE EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH WASTE MATERIALS. THE SUPERINTENDENT SHALL BE RESPONSIBLE FOR POSTING AND ENFORCING WASTE MATERIAL PROCEDURES.

HAZARDOUS WASTE - HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS OR AS DIRECTED BY THE MANUFACTURER. THE SUPERINTENDENT SHALL ORGANIZE THE PROPER TRAINING FOR EMPLOYEES IN THE PROPER PRACTICES WHEN DEALING WITH HAZARDOUS WASTE MATERIALS. THESE PROCEDURES SHALL BE POSTED ON THE SITE. THE PERSON WHO MANAGES THE SITE SHALL BE RESPONSIBLE FOR ENFORCING THE PROCEDURES.

SANITARY WASTE - SANITARY WASTE SHALL BE COLLECTED AND DISPOSED OF IN ACCORDANCE WITH ALL LOCAL AND STATE LAWS. THE SUPERINTENDENT SHALL COORDINATE WITH THE LOCAL UTILITY FOR COLLECTION OF THE SANITARY WASTE AT LEAST THREE TIMES A WEEK TO PREVENT SPILLAGE ONTO THE SITE.

OFFSITE TRACKING:

A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROVIDED TO REDUCE SEDIMENT TRACKING OFFSITE. THE MAJOR ROAD CONNECTED TO THE PROJECT SHALL BE CLEANED ONCE A DAY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK RESULTING FROM CONSTRUCTION TRAFFIC. ALL TRUCKS HAULING MATERIALS OFFSITE SHALL BE COVERED WITH A TARPAULIN.

ITEMS REQUIRING POLLUTION PREVENTION:

THE FOLLOWING ITEMS ARE EXPECTED TO BE PRESENT ON THE PROJECT SITE:
ASPHALT, CONCRETE, CLEANING SUPPLIES, DETERGENTS, FERTILIZERS, MASONRY BLOCKS/ BRICKS, METAL PIECES, PAINT, PETROLEUM BASED PRODUCTS, ROOFING SUPPLIES, TAR, WOOD.

THE FOLLOWING ARE NON-STORM WATER SOURCES THAT WILL BE ENCOUNTERED AT THE SITE AND SHOULD BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE:
- UNCONTAMINATED GROUNDWATER EXPOSED DURING EXCAVATION
- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED).

SPILL PREVENTION AND CONTROL:

THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.

GOOD HOUSEKEEPING:

- SUPERINTENDENT SHALL INSPECT PROJECT DAILY FOR PROPER STORAGE, USE, AND DISPOSAL OF CONSTRUCTION MATERIALS.
- STORE ONLY ENOUGH MATERIAL ON SITE FOR THE PROJECT COMPLETION.
- ALL SUBSTANCES SHOULD BE USED BEFORE DISPOSAL OF CONTAINER.
- ALL CONSTRUCTION MATERIALS STORED SHALL BE ORGANIZED AND IN THE PROPER CONTAINER AND IF POSSIBLE, STORED UNDER A ROOF OR PROTECTIVE COVER.
- PRODUCTS SHALL BE USED AND DISPOSED OF ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

HAZARDOUS PRODUCTS:

- MATERIALS SHOULD BE KEPT IN ORIGINAL CONTAINER WITH LABELS UNLESS THE ORIGINAL CONTAINERS CANNOT BE RESEALED. IF ORIGINAL CONTAINERS CANNOT BE USED, LABELS AND PRODUCT INFORMATION SHALL BE SAVED.
- PROPER DISPOSAL PRACTICES SHALL ALWAYS BE FOLLOWED IN ACCORDANCE WITH MANUFACTURER AND LOCAL/STATE REGULATIONS.

PRODUCT SPECIFIC PRACTICES:

- PETROLEUM PRODUCTS MUST BE STORED IN PROPER CONTAINERS AND CLEARLY LABELED. VEHICLES CONTAINING PETROLEUM PRODUCTS SHALL BE PERIODICALLY INSPECTED FOR LEAKS. PRECAUTIONS SHALL BE TAKEN TO AVOID LEAKAGE OF PETROLEUM PRODUCTS ON SITE.
- THE MINIMUM AMOUNT OF FERTILIZER SHALL BE USED AND MIXED INTO THE SOIL IN ORDER TO LIMIT EXPOSURE TO STORM WATER. FERTILIZERS SHALL BE STORED IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINT CONTAINERS SHALL BE SEALED AND STORED WHEN NOT IN USE. EXCESS PAINT MUST BE DISPOSED OF IN AN APPROVED MANNER.
- CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE.

SPILL CONTROL PRACTICES:

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
- SPILL CLEANUP INFORMATION SHALL BE POSTED ON SITE TO INFORM EMPLOYEES ABOUT CLEANUP PROCEDURES AND RESOURCES.
- THE FOLLOWING CLEANUP EQUIPMENT MUST BE KEPT ON SITE NEAR THE MATERIAL STORAGE AREA: GLOVES, MOPS, RAGS, BROOMS, DUST PANS, SAND, SAWDUST, LIQUID ABSORBER, GOGGLES, AND TRASH CONTAINERS.
- ALL SPILLS SHALL BE CLEANED UP AS SOON AS POSSIBLE.
- WHEN CLEANING A SPILL, THE AREA SHOULD BE WELL VENTILATED AND THE EMPLOYEE SHALL WEAR PROPER PROTECTIVE COVERING TO PREVENT INJURY.
- TOXIC SPILLS MUST BE REPORTED TO THE PROPER AUTHORITY REGARDLESS OF THE SIZE OF THE SPILL.
- AFTER A SPILL, THE PREVENTION PLAN SHALL BE REVIEWED AND CHANGED TO PREVENT FURTHER SIMILAR SPILLS FROM OCCURRING. THE CAUSE OF THE SPILL, MEASURES TO PREVENT IT, AND HOW TO CLEAN THE SPILL UP SHALL BE RECORDED.
- THE SUPERINTENDENT SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR AND IS RESPONSIBLE FOR THE DAY TO DAY SITE OPERATIONS. THE SUPERINTENDENT ALSO OVERSEES THE SPILL PREVENTION PLAN AND SHALL BE RESPONSIBLE FOR EDUCATING THE EMPLOYEES ABOUT SPILL PREVENTION AND CLEANUP PROCEDURES.

MAINTENANCE AND INSPECTION PRACTICES:

THE FOLLOWING ARE MAINTENANCE AND INSPECTION PRACTICES THAT SHALL BE COMPLETED BY THE CONTRACTOR:

- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL BY THE SUPERINTENDENT OR SOMEONE UNDER HIS/HER DIRECT SUPERVISION.
- ALL SEDIMENT AND EROSION CONTROL METHODS SHALL BE KEPT IN GOOD CONDITION. REPAIRS MUST BE MADE WITHIN 24 HOURS OF REPORT.
- THE SILT FEMCE SHALL BE CLEARED OF SEDIMENT WHEN SEDIMENT MEASURES ONE-THIRD THE HEIGHT OF THE FENCE.
- THE SILT FENCE SHALL BE INSPECTED PERIODICALLY FOR HEIGHT OF SEDIMENT AND CONDITION OF FENCE.
- THE SEDIMENT BASINS/DITCHES SHALL BE CHECKED MONTHLY FOR DEPTH OF SEDIMENT. THEY SHALL BE CLEANED WHEN SEDIMENT REACHES 10% OF TOTAL CAPACITY AND AFTER CONSTRUCTION IS COMPLETE.
- THE DIVERSION DIKE SHALL BE INSPECTED MONTHLY. ANY BREACHES SHALL BE PROMPTLY REPAIRED.
- ALL SEEDING SHALL BE CHECKED FOR PROPER GROWTH AND UNIFORMITY. UNSTABALIZED AREAS SHALL BE RE-SODDED.
- A MAINTENANCE REPORT SHALL BE COMPLETED DAILY AFTER EACH INSPECTION OF THE SEDIMENT AND EROSION CONTROL METHODS. THE REPORTS SHALL BE FILED IN AN ORGANIZED MANNER AND RETAINED ON-SITE DURING CONSTRUCTION. AFTER CONSTRUCTION IS COMPLETED, THE REPORTS SHALL BE SAVED FOR AT LEAST THREE YEARS. THE REPORTS SHALL BE AVAILABLE FOR ANY AGENCY THAT HAS JURISDICTION OVER EROSION CONTROL.
- THE SUPERINTENDENT SHALL ORGANIZE THE TRAINING FOR INSPECTION PROCEDURES AND PROPER EROSION CONTROL METHODS FOR EMPLOYEES THAT COMPLETE INSPECTIONS AND REPORTS.

CONTRACTOR'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

SIGNATURE / DATE	COMPANY NAME & ADDRESS	RESPONSIBILITY

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THE ARCHITECTS DRAWINGS AND OTHER WORK AND DESIGNS PREPARED BY THE ARCHITECT AND HIS CONSULTANTS ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND THE CONSULTANTS RESPECTIVELY. THEY ARE NOT TO BE USED BY THE OWNER OR OTHERS ON EXTENSIONS OF THIS PROJECT OR ON ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT AND THE CONSULTANTS RESPECTIVELY. ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHT, ARE RETAINED BY THE ARCHITECT AND THE CONSULTANTS RESPECTIVELY.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

STORM WATER POLLUTION PREVENTION PLAN

C5

FLOOD ZONE:

SITE LIES IN FLOOD ZONE X & AE EL. 33.6'; F.I.R.M. #12053C0304D, DATED FEBRUARY 2, 2012

LEGAL DESCRIPTION:

TRACT "L" OF SPRING HILL UNIT 6 ACCORDING TO THE PLAT THEREOF, RECORDED IN PLAT BOOK 8, PAGES 11 THROUGH 24, INCLUSIVE OF THE PUBLIC RECORDS OF HERNANDO COUNTY, FLORIDA.

SCALE: 1"=20'

SITE SUMMARY

PROJECT AREA	87,719 S.F.	~ 2.01 ACRES

EX. IMPERVIOUS AREA - PROJECT AREA

BUILDING	0 S.F.	0.00 AC.
PAVEMENT/WALKS	0 S.F.	0.00 AC.
TOTAL EX. IMPERVIOUS AREA	0 S.F.	0.00 AC.

EX. PERVIOUS AREA - PROJECT AREA

NATURAL/LANDSCAPED	87,719 S.F.	2.01 AC.
TOTAL EX. PERVIOUS AREA	87,719 S.F.	2.01 AC. (100%)

PROP. IMPERVIOUS AREA - PROJECT AREA

BUILDING	11,646 S.F.	0.27 AC.
ASPHALT PAVEMENT	9,491 S.F.	0.21 AC.
CONCRETE PAVEMENT/WALKS	18,988 S.F.	0.44 AC.
TOTAL PROP. IMPERVIOUS AREA	40,125 S.F.	0.92 AC. (46%)

PROP. PERVIOUS AREA - PROJECT AREA

NATURAL/LANDSCAPED	47,594 S.F.	1.09 AC.
TOTAL PROP. PERVIOUS AREA	47,594 S.F.	1.09 AC. (54%)

PROVIDED PARKING

HANDICAP SPACES	2 SPACES
REGULAR SPACES	35 SPACES
TOTAL PARKING PROVIDED	37 SPACES

CONSTRUCTION NOTES:

1. A RIGHT OF WAY USE PERMIT IS REQUIRED FOR ANY DRIVEWAY AND WORK IN COUNTY RIGHT OF WAY, INCLUDING CONSTRUCTION ENTRANCES. RIGHT OF WAY USE PERMIT IS REQUIRED TO BE OBTAINED PRIOR TO ANY SITE DEVELOPMENT. TO OBTAIN RIGHT-OF-WAY USE PERMIT APPLICATION: HTTP://WWW.HERNANDOCOUNTY.US/DPW/DEPARTMENTS/PUBLIC-WORKS/RIGHT-OF-WAY-PERMITS. RIGHT OF WAY PERMIT APPLICATION REQUIRES: APPROVED CONSTRUCTION PLANS (PERMITTED SET) AND M.O.T. (MAINTENANCE OF TRAFFIC PLAN) AND APPROPRIATE FEE.
2. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. A **DPW** INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING. CONTRACTOR MUST PROVIDE ALL RIGHT OF WAY USE PLANS TO THE **DPW** INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. CONTACT **DPW** INSPECTORS AT 352-754-4060 OR EMAIL TO DPWRESOURCEOBJECT@HERNANDOCOUNTY.US.
3. CONTRACTOR TO NOTIFY **DPW** INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT OF WAY.
4. **DPW** INSPECTOR MUST BE PRESENT FOR ALL PAVING OF RIGHT OF WAYS AND INSPECT PRIOR TO POURING CONCRETE SIDEWALKS.
5. HERNANDO COUNTY OWNED INFRASTRUCTURE: **DPW** PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL BASE LAYERS, COMPACTION, SLOPE AND DEPTH HAS BEEN DONE PER PLAN BEFORE BURYING/ PAVING/POURING.
6. THE HOURS FOR THESE INSPECTIONS SHALL BE BETWEEN 8AM AND 3PM. IF **DPW** HAS NOT INSPECTED BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.
7. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS IS NOT RESPONSIBLE FOR ONSITE DAMAGE ASSOCIATED WITH THE MAINTENANCE OR REPAIR OF ANY HERNANDO COUNTY OWNED INFRASTRUCTURE. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURBING, ASPHALT, CONCRETE, ETC.
8. CONTRACTOR SHALL PROVIDE 24 HOUR ADVANCE NOTICE TO LOCAL EMERGENCY SERVICE DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.
9. CALL DEPT. OF PUBLIC WORKS AT 352-754-4060, FOR LOCATES OF FIBER OPTIC, 72 HOURS PRIOR TO DIGGING. **"DPW DOES NOT PARTICIPATE IN SUNSHINE ONE CALL"**
10. ALL TRAFFIC CONTROL DEVICES ARE TO BE PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT INDICES AND HERNANDO COUNTY FACILITY DESIGN GUIDELINES.
11. ALL NEW CONSTRUCTIONS PROCEDURES AND MATERIALS SHALL MEET OR EXCEED HERNANDO COUNTY FACILITY DESIGN GUIDELINES REQUIREMENTS. WHICH CAN BE FOUND ONLINE AT: HTTP://WWW.HERNANDOCOUNTY.US/DEPARTMENTS/DEPARTMENTS-N-Z/PUBLIC-WORKS/FACILITY-DESIGN-GUIDELINES.

SITE LEGEND

- DENOTES EXISTING ASPHALT PAVEMENT
- DENOTES PROPOSED ASPHALT PAVEMENT
- DENOTES PROPOSED CONCRETE WALKS/PATHS
- DENOTES PROPOSED CONCRETE PAVEMENT
- DENOTES SIDEWALK W/ TRUNCATED DOME
- DENOTES HANDICAP PARKING
- DENOTES DUMPSTER LOCATION
- DENOTES NUMBER OF PARKING SPACES
- TRAFFIC CIRCULATION (NOT FOR PAINTING)

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Orlando, (727) 504-0505
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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

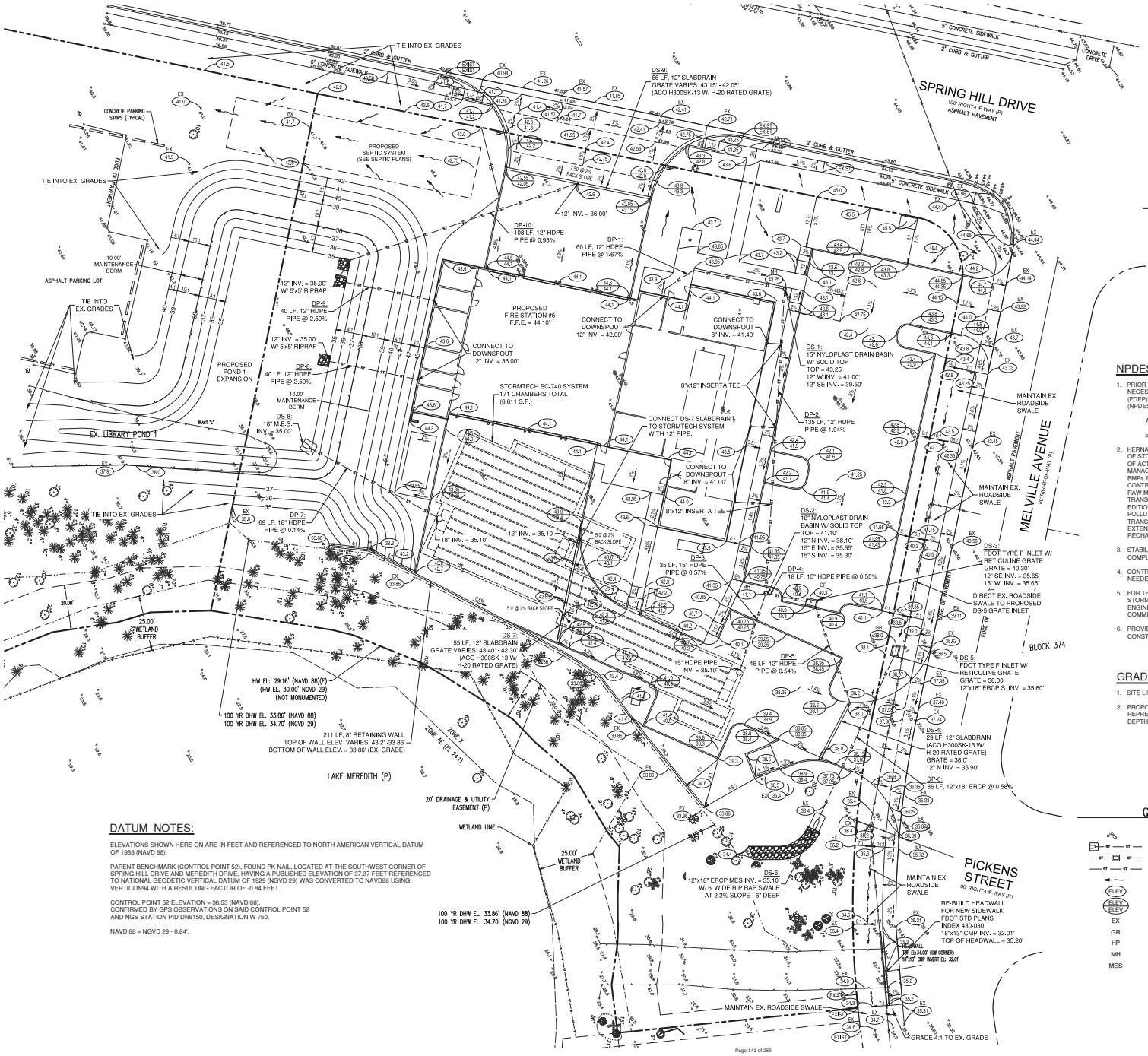
Project number 1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 1 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

SITE PLAN

C6



DATUM NOTES:

ELEVATIONS SHOWN HERE ON ARE IN FEET AND REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PARENT BENCHMARK (CONTROL POINT 52), FOUND PK NAIL, LOCATED AT THE SOUTHWEST CORNER OF SPRING HILL DRIVE AND MEREDITH DRIVE, HAVING A PUBLISHED ELEVATION OF 37.37 FEET REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) WAS CONVERTED TO NAVD88 USING VERTICON94 WITH A RESULTING FACTOR OF -0.84 FEET.

CONTROL POINT 52 ELEVATION = 36.53 (NAVD 88).
CONFIRMED BY GPS OBSERVATIONS ON SAID CONTROL POINT 52 AND NGS STATION PID DN8150, DESIGNATION W 750.

NAVD 88 = NGVD 29 - 0.84'.

DRAINAGE SUMMARY

PROJECT AREA	87,719 S.F. ~	2.01 ACRES
PROP. IMPERVIOUS AREA		
BUILDING	11,646 S.F.	0.27 AC.
ASPHALT PAVEMENT	9,491 S.F.	0.21 AC.
CONCRETE PAVEMENT/WALKS	18,988 S.F.	0.44 AC.
TOTAL PROP. IMPERVIOUS AREA	40,125 S.F.	0.92 AC. (46%)
PROP. PERVIOUS AREA		
NATURAL/LANDSCAPED	47,594 S.F.	1.09 AC.
TOTAL PROP. PERVIOUS AREA	47,594 S.F.	1.09 AC. (54%)

NPDES REQUIREMENTS:

1. PRIOR TO COMMENCEMENT OF CONSTRUCTION THE DEVELOPER/OWNER SHALL OBTAIN THE NECESSARY PERMIT, FROM STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), REQUIRED TO COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER REGULATORY PROGRAM AND HERNANDO COUNTY'S NPDES ORDNANCE.
   A. LARGE CONSTRUCTION ACTIVITY IS DEFINED IN 40 CFR PART 122.26(b)(14)(x)
   B. SMALL CONSTRUCTION ACTIVITY IS DEFINED IN 40 CFR PART 122.26(b)(14)
2. HERNANDO COUNTY REQUIRES THAT ALL CONSTRUCTION ACTIVITY INCLUDE THE IMPLEMENTATION OF STORMWATER CONTROL "BEST MANAGEMENT PRACTICES" (BMP's) MEANING THOSE SCHEDULES OF ACTIVITIES, PROHIBITIONS OF PRACTICES, MAINTENANCE PROCEDURES, AND OTHER MANAGEMENT PRACTICES TO PREVENT OR REDUCE THE POLLUTION OF SURFACE WATERS. BMPs ALSO INCLUDE TREATMENT REQUIREMENTS, OPERATING PROCEDURES, AND PRACTICES TO CONTROL SITE RUNOFF, SPILLAGE OR LEAKS, SLUDGE OR WASTE DISPOSAL, OR DRAINAGE FROM RAW MATERIAL STORAGE. REFERENCE IS MADE TO SECTION 104, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND F.D.E.P. NPDES STORMWATER PROGRAM, AND GUIDANCE FOR STORMWATER POLLUTION PREVENTION. THE APPLICABLE MEASURES SHALL BE IMPLEMENTED TO MINIMIZE THE TRANSPORTATION OF SILTS AND SEDIMENTS OFF SITE AND TO ELIMINATE, TO THE GREATEST EXTENT POSSIBLE, THE CONTAMINATION OF SURFACE WATERS FLOWING OFF-SITE OR RECHARGING ON-SITE.
3. STABILIZE ALL DISTURBED SOILS WITHIN SEVEN DAYS OF NO CONSTRUCTION, PROJECT COMPLETION, OR FINAL INSPECTION, WHICHEVER OCCURS FIRST.
4. CONTRACTOR SHALL CLEAN UP ALL FUGITIVE SOILS AT A MINIMUM WEEKLY OR MORE OFTEN AS NEEDED.
5. FOR THOSE SITES REQUIRING A FDEP PERMIT, AS DESCRIBED ABOVE, A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE PROVIDED TO THE HERNANDO COUNTY ENGINEERING OFFICE, 1525 EAST JEFFERSON STREET, BROOKSVILLE, FLORIDA 34601, PRIOR TO COMMENCING CONSTRUCTION.
6. PROVIDE A COPY OF THE NOTICE OF TERMINATION TO THE COUNTY ENGINEERS OFFICE WHEN CONSTRUCTION IS COMPLETE, AS ABOVE.

GRADING NOTES:

1. SITE LIES IN FLOOD ZONE X; F.I.R.M. #12053C0304D, DATED FEBRUARY 2, 2012.
2. PROPOSED GRADES SHOWN FOR GRASSED AREAS / LANDSCAPED AREAS AND SWALES REPRESENT FINISHED GRADE ELEVATIONS. ALLOW 0.20 FEET TO DIRT GRADE FOR DEPTH OF SOD.

GRADING LEGEND

*38.0	EXISTING GROUND ELEVATION SHOT
ST ST	PROPOSED MITERED END SECTION
ST ST	PROPOSED STORM DRAINAGE INLET
ST ST	PROPOSED STORM DRAINAGE PIPE
	PROPOSED FLOW DIRECTION ARROW
(ELEV)	PROPOSED ELEVATION
(ELEV) (ELEV)	PROPOSED TOP OF WALK/CURB ELEVATION PROPOSED EDGE OF PAVEMENT ELEVATION
EX	EXISTING ELEVATION
GR	GRADE ELEVATION
HP	HIGH POINT ELEVATION
MH	MANHOLE TOP ELEVATION
MES	MITERED END SECTION (FDOT INDEX 272)

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Brooksville, FL 34601
(727) 835-0022

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

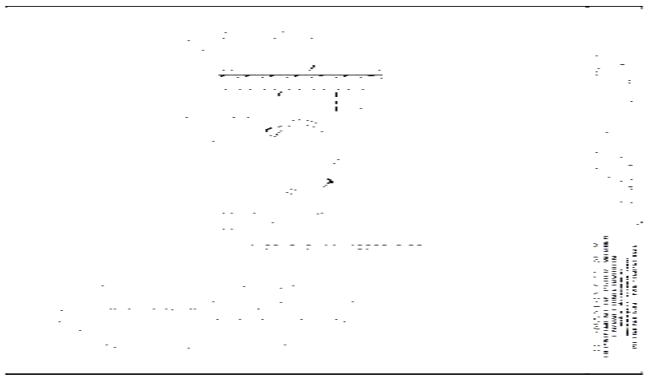
Project number 1932

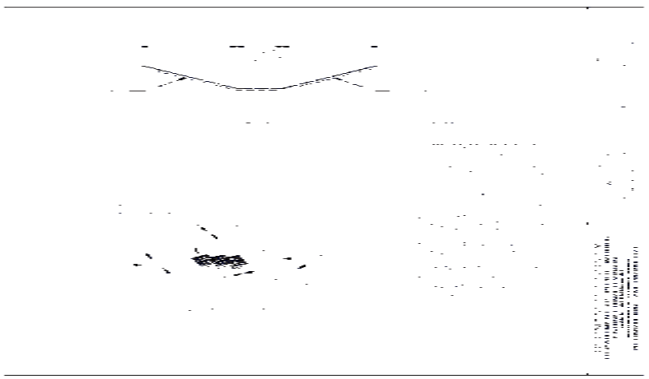
DISTRIBUTION

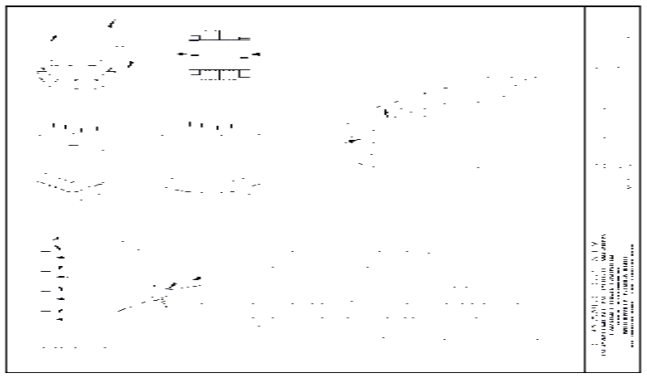
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 1 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

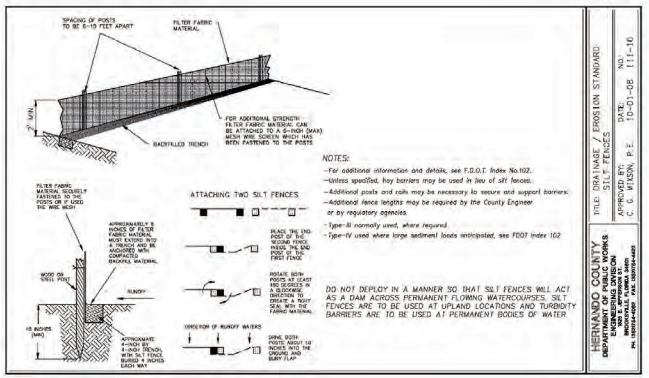
GRADING & DRAINAGE PLAN

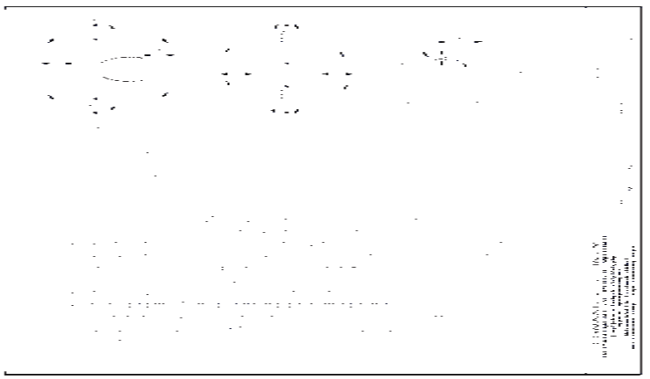
C7

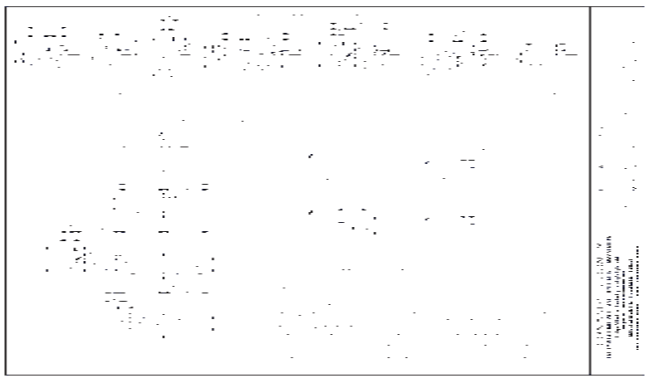


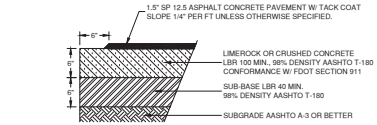












NOTE:

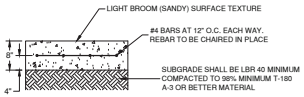
THE SUBGRADE SHALL CONSIST OF A-3 OR BETTER MATERIAL FOR A DEPTH OF 3 FEET BELOW THE SUB-BASE. IF THE SUBGRADE IS REPLACED OR DISTURBED, IT SHALL BE COMPACTED TO 98% T-180 TO THE DEPTH REPLACED OR DISTURBED.

THE SUB-BASE MAY BE STABILIZED IN PLACE TO PROVIDE REQUIRED LBR AND DENSITY.

BANKRUN SHELL BASE MAY BE SUBSTITUTED WITH SOIL CEMENT CONSISTING OF LOCAL SHELL MATERIAL WITH A MINIMUM LBR VALUE 100 SOURCE SITE MIXED WITH 2 1/2% CEMENT COMPACTED 98% T-180.

TYPICAL ASPHALT PAVEMENT SECTION

NOT TO SCALE

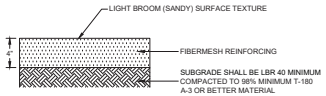


NOTE:

1. EXPANSION JOINTS EVERY 400 SQUARE FEET OF CONCRETE PAVEMENT.
2. CONCRETE STRENGTH = 3000 PSI
3. CONTROL JOINTS EVERY 100 SQUARE FEET OF CONCRETE PAVEMENT.

TYPICAL 8" CONCRETE PAVEMENT DETAIL

NOT TO SCALE

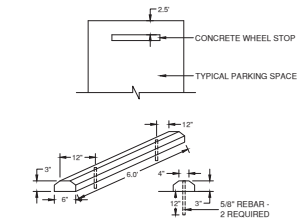


NOTE:

1. CONSTRUCTION CONTROL JOINTS EVERY 5 FEET OF SIDEWALK OR WALKWAY.
2. EXPANSION JOINTS EVERY 20 FEET OF SIDEWALK OR WALKWAY.
3. CONCRETE STRENGTH = 3000 PSI

TYPICAL CONCRETE SIDEWALK DETAIL

NOT TO SCALE



NOTE:
PLACE CONCRETE WHEEL STOP 2.5' FROM FRONT OF PARKING SPACE TO BACK OF WHEEL STOP.

TYPICAL CONCRETE WHEEL STOP

NOT TO SCALE

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VICKSTROM ENGINEERING SERVICES, INC.
Dan Vickstrom, P.E.
Civil Engineer
Certificate of Authorization #30184
Date: 3/31/2021

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

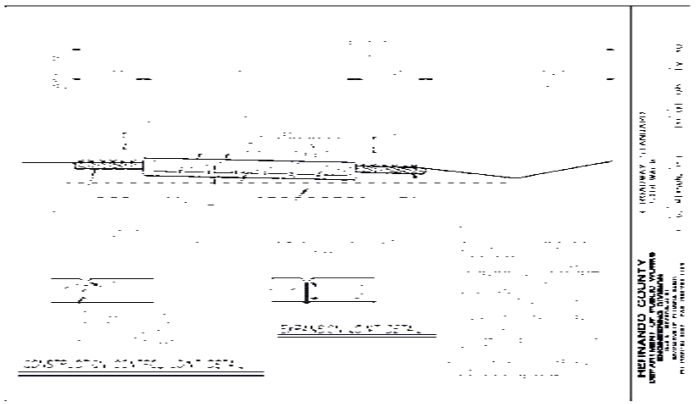
Project number
1932

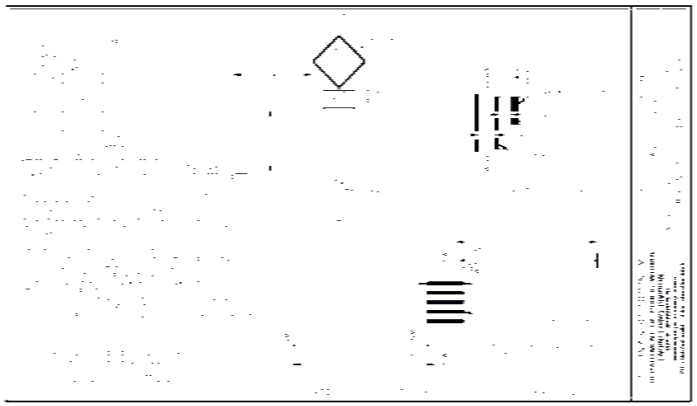
DISTRIBUTION

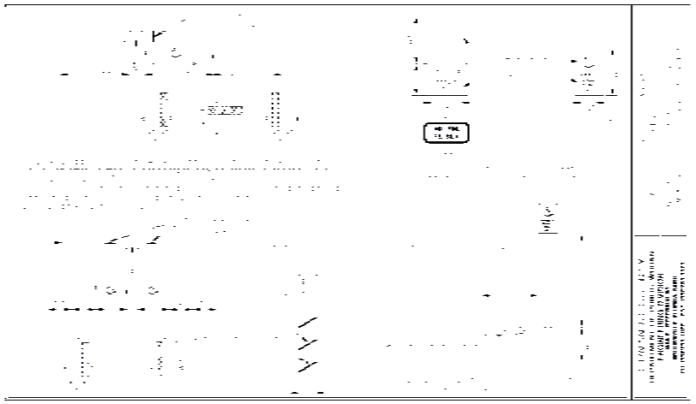
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

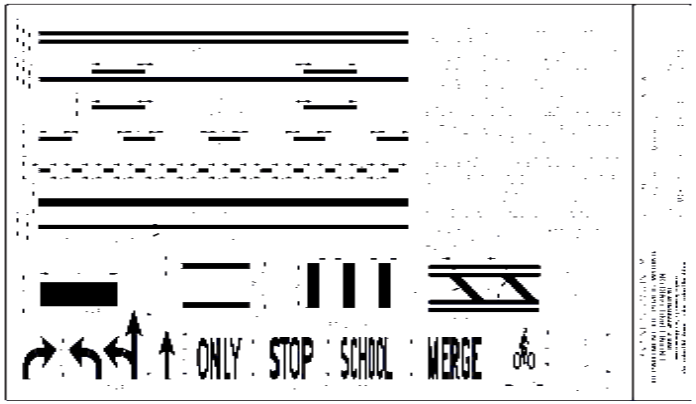
CIVIL DETAILS

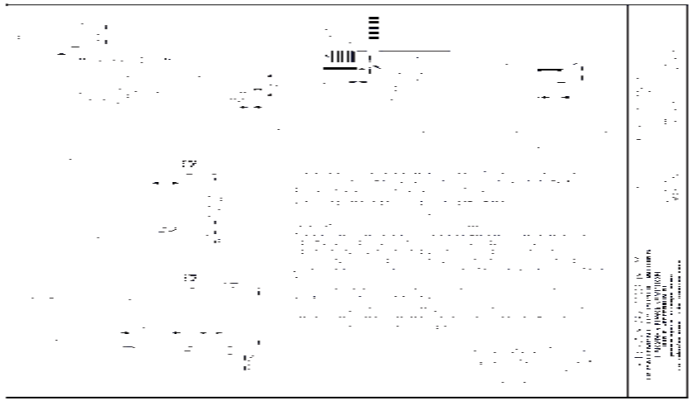
C8

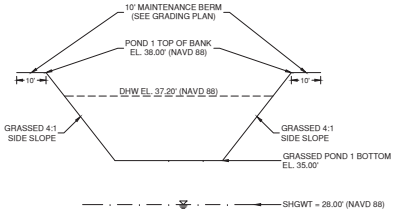












POND 1 CROSS SECTION

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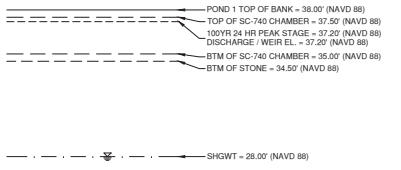

STORM WATER DIAGRAM

NOT TO SCALE

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St. Petersburg, FL 33704
Orlando, (727) 804-0404
Registry No. 30184

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

CIVIL DETAILS

C9

PROJECT INFORMATION	
ENGINEER	TO BE ADVISED
PRODUCT	910-669-9999
MANAGER	TO BE ADVISED (EGEST@ADS-PIPE.COM)
ADS SALES REP	JOHN TSIVEITIS 407-718-8480 (JOHN.TSIVEITIS@ADS-PIPE.COM)
PROJECT NO	210215

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SPRING HILL FIRE STATION

SPRING HILL, FL

SC-740 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-740.
2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS"
4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LONG TERM FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONGSOIRATION (DEAD LOAD) AND 2) SHORT DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR SPEED AND MULTIPLE VEHICLE PRESENCES.
6. CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTALLATIONS OF 1.3 MILE AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75 YR) COVER LOAD AND 3) ALLOWABLE SCENE (WITH PAVED LOADING), AASHTO DESIGN TRUCK.
7. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - CONTRACTOR TO REVIEW THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING. CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, ALL THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.9 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB/IN/IN. AND 4) TO INSURE CHAMBER INFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE SOLID OR YELLOW COLORS.
8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
   - THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
   - FOR SITES WITH LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTION 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
   - FOR SITES WITHOUT LIVE LOAD, THE MINIMUM REQUIRED SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75 YEAR MODULUS USED FOR STI SD3.
9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-740 SYSTEM

1. STORMTECH SC-740 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
2. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. RECOMMENDED METHOD OF PLACEMENT IS AS FOLLOWS:
   - STONE/BACKFILL LOCATED ONLY OFF THE CHAMBER BED.
   - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
   - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
6. MAINTAIN MINIMUM 4" (100mm) SPACING BETWEEN THE CHAMBER ROWS.
7. SUBGRADE UNDER SUBROW/DAS CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE (NO.3 / 2in-50 mm).
8. THE EXCAVATOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL'S BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
9. ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-740 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-740 CHAMBERS IS LIMITED:
   - NO RESTRICTIONS ON EQUIPMENT WITH LESS THAN 4 PASSES
   - NO RUBBER TIRED LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
   - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/DC-780 CONSTRUCTION GUIDE".
3. FULL 36" (900 mm) OF STABILIZED COVER MATERIAL OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PLOW EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2694 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

SHEET 1 OF 6

PROPOSED LAYOUT

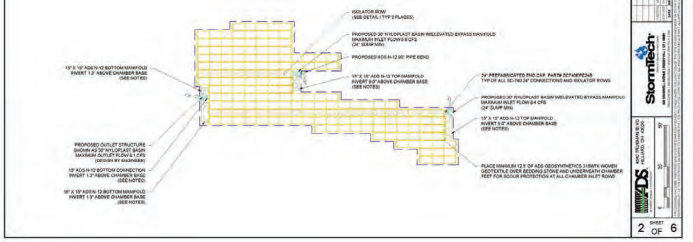
171 STORMTECH SC-740 CHAMBERS
39 STORMTECH SC-740 END CAPS
6 STONE ABOVE (in)
6 STONE BELOW (in)
40 % STONE VOID
159.67 INSTALLED SYSTEM VOLUME BELOW ELEVATION 37.50 (CY) (PERIMETER STONE INCLUDED)
159.67 STONE AREA (SF)
242 STONE PERIMETER (ft)

PROPOSED ELEVATIONS

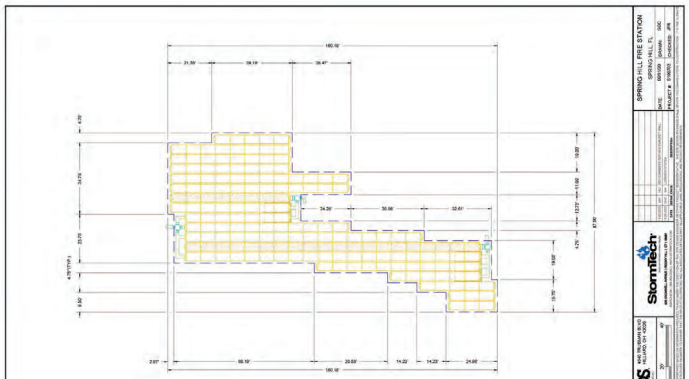
45.50	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/STRUCTURE)
45.00	MINIMUM ALLOWABLE GRADE (TOP OF PAVEMENT)
39.00	MAXIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
39.00	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
38.50	MAXIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
38.00	TOP OF STONE
37.50	TOP OF SC-740 CHAMBER
36.74	18" BOTTOM MANIFOLD INVERT
36.74	18" STORMTECH CONNECTION MANIFOLD INVERT
35.57	24" ISOLATOR ROW CONNECTION INVERT
35.05	BOTTOM OF SC-740 CHAMBER
34.76	BOTTOM OF STONE

NOTES

- MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.22 FOR MANIFOLD SIZING GUIDANCE.
- DUE TO THE ADAPTATION OF THE CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE CHAMBERS AT THE FIELD LEVEL. SEE TECHNICAL NOTE 6.30 FOR CUTTING AND COUPLING PROCEDURES.
- THE SITE DESIGN ENGINEER MUST REVIEW ELEVATIONS AND FLOWRATES AT MUSTANG TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- THE STORMWATER SYSTEM WAS DESIGNED WITHOUT SITE-SPECIFIC INFORMATION ON SOIL CONDITIONS OR BEARING CAPACITY. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF THE SOIL AND PROVIDING THE BEARING CAPACITY OF THE INSITU SOILS. THE BASE STONE DEPTH MAY BE INCREASED OR DECREASED ONCE THIS INFORMATION IS PROVIDED.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE RETAINING WALL AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE RETAINING WALL'S INTEGRITY.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE SLOPE AND CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS ON THE SLOPE'S INTEGRITY.
- THE SITE DESIGN ENGINEER MUST REVIEW THE PROXIMITY OF THE CHAMBERS TO THE BUILDING/STRUCTURE. NO FOUNDATION LOADS SHALL BE TRANSMITTED TO THE CHAMBERS. THE SITE DESIGN ENGINEER MUST CONSIDER EFFECTS OF POSSIBLE SATURATED SOILS OR BEARING CAPACITY OF SOILS AND SEEPAGE INTO BASEMENTS.



SHEET 2 OF 6

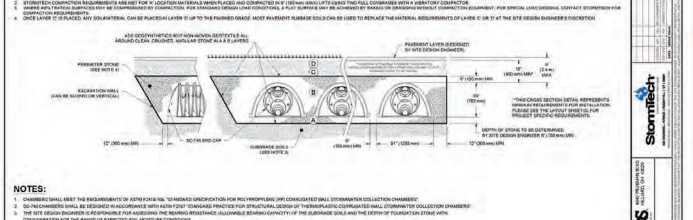


SHEET 3 OF 6

ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

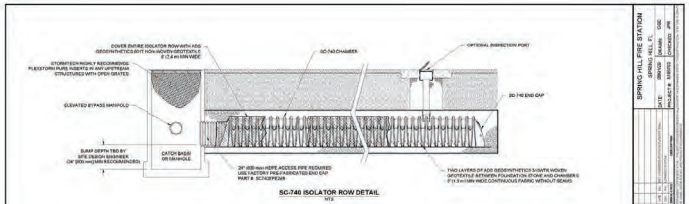
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE EMBEDMENT STONE (LAYER 'C') TO FINISH GRADE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (LAYER 'B') TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145*: A-1, A-2-4, A-3 OR AASHTO M43*: 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTION IN LAYER 'C' (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 9" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. NOTE THAT PAVEMENT SUBBASE MAY HAVE HIGHER COMPACTION REQUIREMENTS. MAX LIFT THICKNESS FOR HEAVY COMPACTION EQUIPMENT (VIBRATORY PLATE COMPACTOR) MAY BE INCREASED TO 18" (450 mm) IF VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (IF A LAYER) TO THE "C" LAYER ABOVE	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43*: 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE ROOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43*: 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE!!!

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (150 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INSTALLATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR GRADING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/AGGREGATE CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER C OR D AT THE SITE DESIGN ENGINEER'S DISCRETION



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTERNAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, ALL THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.9 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LB/IN/IN. AND 4) TO INSURE CHAMBER INFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE SOLID OR YELLOW COLORS.

SHEET 4 OF 6



SC-740 ISOLATOR ROW DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- A. INSPECTION PORT (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE LID FROM ISOLATOR ROW OBSERVATION PORT
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm), PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3
- B. ALL ISOLATOR ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW THROUGH OUTLET PIPE
    - i. MIRRORS ON POLES OR CAMERA MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii. IF WATER IS PRESENT, INSPECT FOR SEDIMENT ACCUMULATION AND MEASURE DEPTH OF ENTERING MANDREL
  - B.3. IF SEDIMENT IS AT OR ABOVE 3" (80 mm), PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3

STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A. A PUMP TRUCK WITH CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY JETVAC TO ISOLATOR ROW FROM DOWNSTREAM MANHOLE WHILE PUMPING WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

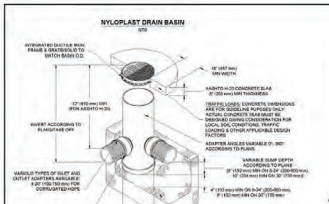
STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

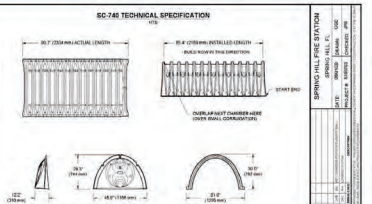
SHEET 5 OF 6

NYLOPLAST DRAIN BASIN
NTS



NOTES
1. 3-24" (250 mm - 600 mm) WATERSHIELD COVERS SHALL BE SUPPLIED WITH PER ASTM A536
2. 17" (430 mm) I.D.
3. 13-30" (250-750 mm) FRAMES SHALL BE DUCTILE IRON WITH ASTM A536 GRADE 70-50-05
4. DRAIN BASIN TO BE CUSTOM MINOR ACTUATED ACCORDING TO PLANS DETAILS
5. DRAINAGE BASIN TO BE FLOPLAST STYLE WITH TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR EXFILTRATION NOTE, USE A HANDICAP SEAL WALL) & SDR 35 PVC
6. FOR ADDITIONAL INFORMATION, CONTACT NYLOPLAST DIVISION - WWW.NYLOPLASTUSA.COM

SC-740 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS
SIZE (W x H x INSTALLED LENGTH): 54.0" X 30.0" X 85.4" (1360 mm X 762 mm X 2169 mm)
CHAMBER STORAGE: 45.9 CUBIC FEET (1.30 m³)
MINIMUM INSTALLED STORAGE*: 75.0 CUBIC FEET (2.12 m³)
WEIGHT: 75.8 lbs (33.8 kg)

*ASSUMES 6" (152 mm) STONE ABOVE, BELOW, AND BETWEEN CHAMBERS.

PREFAB STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
PREFAB STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
PREFORMED END CAPS SHIP WITH "PDC"

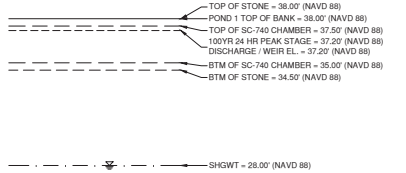
PART #	STUB	A	B	C
SC740EPDCBT / SC740EPDCTB	8" (150 mm)	16.9" (475 mm)	—	5.9" (151 mm)
SC740EPDC08 / SC740EPDC8PK				
SC740EPDCBT / SC740EPDCTC	8" (200 mm)	16.5" (418 mm)	—	5.9" (151 mm)
SC740EPDC08 / SC740EPDC8PC				
SC740EPDCBT / SC740EPDCTD	10" (250 mm)	15.4" (392 mm)	14.5" (368 mm)	10.7" (272 mm)
SC740EPDC10 / SC740EPDC10PK				
SC740EPDCBT / SC740EPDCTC	12" (300 mm)	14.7" (373 mm)	13.9" (354 mm)	1.3" (33 mm)
SC740EPDC12 / SC740EPDC12PC				
SC740EPDCBT / SC740EPDCTC	12" (300 mm)	14.7" (373 mm)	14.7" (373 mm)	1.3" (33 mm)
SC740EPDC12 / SC740EPDC12PC				
SC740EPDCBT / SC740EPDCTB	15" (375 mm)	16.4" (417 mm)	16.4" (417 mm)	1.3" (33 mm)
SC740EPDC15 / SC740EPDC15PC				
SC740EPDCBT / SC740EPDCTC	18" (450 mm)	16.7" (424 mm)	16.7" (424 mm)	—
SC740EPDC18 / SC740EPDC18PC				
SC740EPDCBT / SC740EPDCTC	24" (600 mm)	18.5" (470 mm)	—	5.7" (144 mm)
SC740EPDC24				

ALL STUBS, EXCEPT FOR THE SC740EPDC24, ARE FLUSH AT BOTTOM OF END CAP SUCH THAT THE OUTSIDE DIAMETER OF THE STUB AND THE BOTTOM OF THE END CAP. FOR ADDITIONAL INFORMATION CONTACT STORMTECH AT 1-888-892-2694

* FOR THE SC740EPDC24B THE 24" (600 mm) STUB LIES WELL BELOW THE BOTTOM OF THE END CAP APPROXIMATELY 1.73" (44 mm) BACKFILL MATERIAL SHOULD BE REMOVED FROM BELOW THE 14-1/2 STUB SO THAT THE FITTING SITS LEVEL

NOTE: ALL DIMENSIONS ARE NOMINAL

SHEET 6 OF 6



STORM WATER DIAGRAM

NOT TO SCALE

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VICKSTROM ENGINEERING SERVICES, INC.
Certificate of Authorization No. 30184
1501 W. Fairbanks Ave.
Suite 300
Winter Park, FL 32789
(407) 504-4555

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL FL 34608

Project number 1932

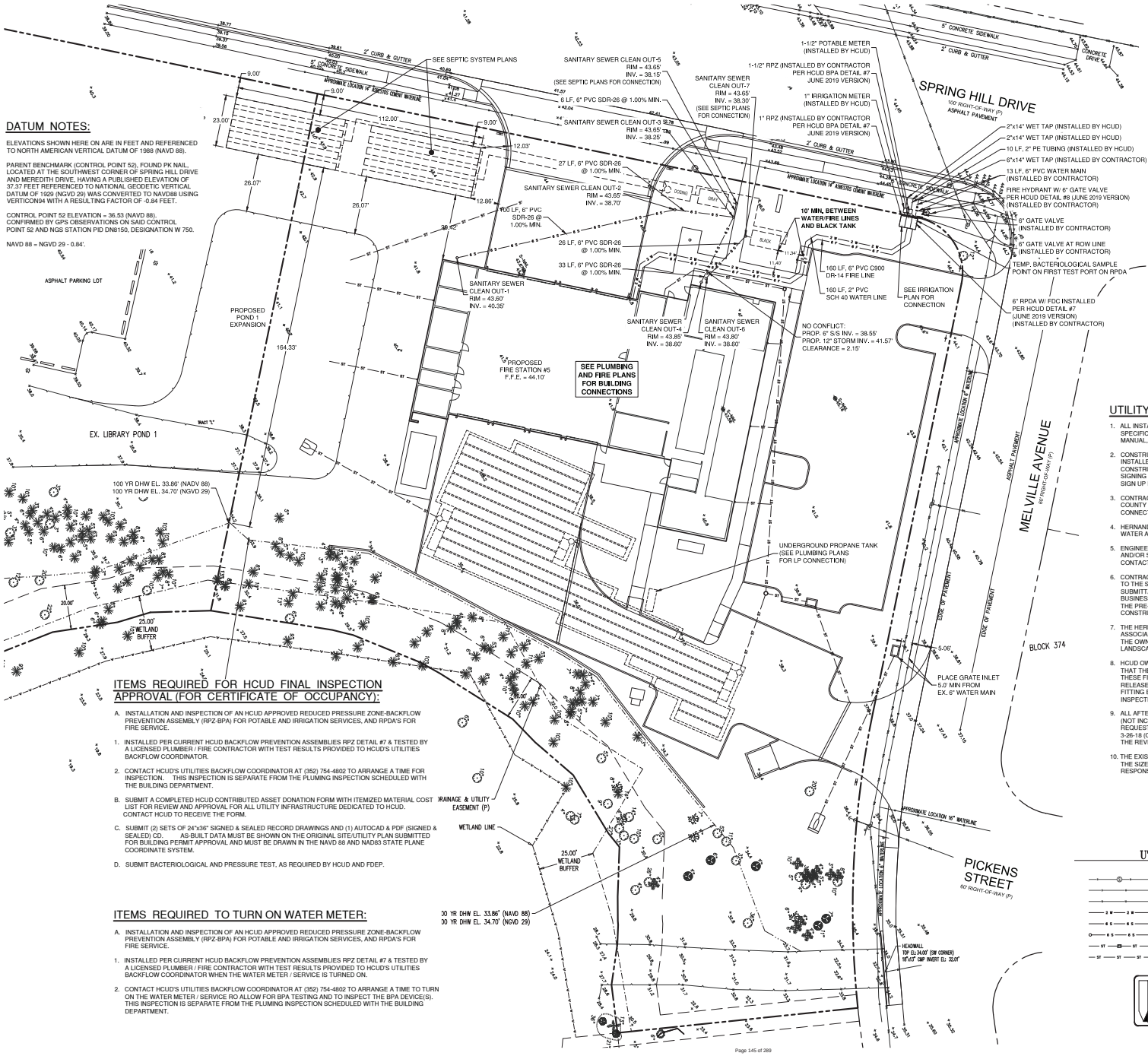
DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

STORMTECH DETAILS

C10

Daniel M. Vickstrom, P.E.
P.E. No. 46090
State of Florida
Vickstrom Engineering Services, Inc.
Registry No. 30184



DATUM NOTES:

ELEVATIONS SHOWN HERE ON ARE IN FEET AND REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

PARENT BENCHMARK (CONTROL POINT 52), FOUND PK NAIL, LOCATED AT THE SOUTHWEST CORNER OF SPRING HILL DRIVE AND MEREDITH DRIVE, HAVING A PUBLISHED ELEVATION OF 37.37 FEET REFERENCED TO NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29) WAS CONVERTED TO NAVD88 USING VERTICON94 WITH A RESULTING FACTOR OF -0.84 FEET.

CONTROL POINT 52 ELEVATION = 36.53 (NAVD 88). CONFIRMED BY GPS OBSERVATIONS ON SAID CONTROL POINT 52 AND NGS STATION PID DN8150, DESIGNATION W 750.

NAVD 88 = NGVD 29 - 0.84'.

ITEMS REQUIRED FOR HCUD FINAL INSPECTION APPROVAL (FOR CERTIFICATE OF OCCUPANCY):

A. INSTALLATION AND INSPECTION OF AN HCUD APPROVED REDUCED PRESSURE ZONE-BACKFLOW PREVENTION ASSEMBLY (RPZ-BPA) FOR POTABLE AND IRRIGATION SERVICES, AND RPDA'S FOR FIRE SERVICE.

1. INSTALLED PER CURRENT HCUD BACKFLOW PREVENTION ASSEMBLIES RPZ DETAIL #7 & TESTED BY A LICENSED PLUMBER / FIRE CONTRACTOR WITH TEST RESULTS PROVIDED TO HCUD'S UTILITIES BACKFLOW COORDINATOR.

2. CONTACT HCUD'S UTILITIES BACKFLOW COORDINATOR AT (352) 754-4802 TO ARRANGE A TIME FOR INSPECTION. THIS INSPECTION IS SEPARATE FROM THE PLUMING INSPECTION SCHEDULED WITH THE BUILDING DEPARTMENT.

B. SUBMIT A COMPLETED HCUD CONTRIBUTED ASSET DONATION FORM WITH ITEMIZED MATERIAL COST LIST FOR REVIEW AND APPROVAL FOR ALL UTILITY INFRASTRUCTURE DEDICATED TO HCUD. CONTACT HCUD TO RECEIVE THE FORM.

C. SUBMIT (2) SETS OF 24"x36" SIGNED & SEALED RECORD DRAWINGS AND (1) AUTOCAD & PDF (SIGNED & SEALED) CD. AS-BUILT DATA MUST BE SHOWN ON THE ORIGINAL SITE/UTILITY PLAN SUBMITTED FOR BUILDING PERMIT APPROVAL AND MUST BE DRAWN IN THE NAVD 88 AND NAD83 STATE PLANE COORDINATE SYSTEM.

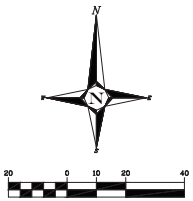
D. SUBMIT BACTERIOLOGICAL AND PRESSURE TEST, AS REQUIRED BY HCUD AND FDEP.

ITEMS REQUIRED TO TURN ON WATER METER:

A. INSTALLATION AND INSPECTION OF AN HCUD APPROVED REDUCED PRESSURE ZONE-BACKFLOW PREVENTION ASSEMBLY (RPZ-BPA) FOR POTABLE AND IRRIGATION SERVICES, AND RPDA'S FOR FIRE SERVICE.

1. INSTALLED PER CURRENT HCUD BACKFLOW PREVENTION ASSEMBLIES RPZ DETAIL #7 & TESTED BY A LICENSED PLUMBER / FIRE CONTRACTOR WITH TEST RESULTS PROVIDED TO HCUD'S UTILITIES BACKFLOW COORDINATOR WHEN THE WATER METER / SERVICE IS TURNED ON.

2. CONTACT HCUD'S UTILITIES BACKFLOW COORDINATOR AT (352) 754-4802 TO ARRANGE A TIME TO TURN ON THE WATER METER / SERVICE RO ALLOW FOR BPA TESTING AND TO INSPECT THE BPA DEVICE(S). THIS INSPECTION IS SEPARATE FROM THE PLUMING INSPECTION SCHEDULED WITH THE BUILDING DEPARTMENT.



PROJECT LOCATION MAP
NOT TO SCALE

UTILITY CONSTRUCTION NOTES:

1. ALL INSTALLATIONS SHALL MEET OR EXCEED HERNANDO COUNTY UTILITIES DEPARTMENT SPECIFICATIONS AS DEFINED IN THE WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION.
2. CONSTRUCTION WATER TO BE PROVIDED BY A TEMPORARY CONSTRUCTION WATER METER INSTALLED BY HCUD ON THE CLOSEST HCUD OWNED FIRE HYDRANT TO THE SITE. CONSTRUCTION METERS WILL BE INSTALLED BY HCUD WITHIN FIVE (5) BUSINESS DAYS OF SIGNING UP FOR SERVICE. CONTRACTOR TO CONTACT HCUD'S ENGINEERING DEPARTMENT TO SIGN UP FOR SERVICE, IF CONSTRUCTION WATER IS REQUIRED.
3. CONTRACTOR SHALL NOTIFY HCUD INSPECTOR 48 HOURS PRIOR TO UTILITY CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY. HCUD INSPECTOR **MUST** BE PRESENT FOR ALL WATER AND SEWER CONNECTIONS.
4. HERNANDO COUNTY UTILITIES DEPARTMENT SHALL NOT OWN, OPERATE, OR MAINTAIN ON-SITE WATER AND/OR SEWER UTILITIES OUTSIDE OF DEDICATED UTILITY EASEMENTS.
5. ENGINEER/DEVELOPER/CONTRACTOR/OWNER IS TO COMPLETE AND DEDICATE ALL OFFSITE WATER AND/OR SEWER INFRASTRUCTURE CONSTRUCTED BY THE CONTRACTOR TO HCUD. CONTACT HCUD TO OBTAIN THE CONTRIBUTED ASSET FORM. (IF APPLICABLE)
6. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF OFF-SITE UTILITY CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL UTILITY SUBMITTALS TO THE HCUD INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. HCUD INSPECTOR **MUST** ATTEND THE PRE-CONSTRUCTION MEETING. CONTACT HCUD AT (352) 754-4858 TO SCHEDULE THE PRE-CONSTRUCTION MEETING.
7. THE HERNANDO COUNTY UTILITY DEPARTMENT (HCUD) IS NOT RESPONSIBLE FOR ONSITE DAMAGE ASSOCIATED WITH THE MAINTENANCE OR REPAIR OF ANY HCUD OWNED INFRASTRUCTURE. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURBING, ASPHALT, CONCRETE, ETC.
8. HCUD OWNED INFRASTRUCTURE: HCUD PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL PIPE FITTINGS HAS BEEN DONE PER PLAN BEFORE BURYING. THESE FITTINGS SHALL INCLUDE BUT NOT LIMITED TO: COUPLING, RESTRAINT, TEE, 90, 45, 22.11, AIR RELEASE, AND ANY DIVERSIONS FROM A STRAIGHT PIPE RUN. IF HCUD HAS NOT INSPECTED THE FITTING BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.
9. ALL AFTER HOUR WORK REQUESTS MUST BE SUBMITTED TO HCUD A MINIMUM OF 6 BUSINESS DAYS (NOT INCLUDING PUBLIC HOLIDAYS AND WEEKENDS) PRIOR TO THE PROPOSED WORK. THE REQUEST MUST FOLLOW HCUD'S REVISED SCHEDULE AFTER HOURS WORK REQUEST SOP DATED 3-26-18 (OR LATEST EDITION). IF AFTER HOURS WORK IS PROPOSED CONTACT HCUD TO RECEIVE THE REVISED SOP PRIOR TO REQUESTING AFTER HOURS WORK.
10. THE EXISTING UTILITY INFRASTRUCTURE IS SUBJECT TO FILED VERIFICATION. VERIFICATION OF THE SIZE, LOCATION, DEPTH, MATERIAL TYPE AND ANY OTHER PERTINENT INFORMATION IS THE RESPONSIBILITY OF THE DEVELOPER / EOR / CONTRACTOR PRIOR TO CONSTRUCTION.

UTILITY LEGEND

- EXISTING SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER LINE
- EXISTING WATER LINE
- PROPOSED 2" WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED SANITARY SEWER CLEAN OUT
- PROPOSED STORM DRAINAGE INLET
- PROPOSED STORM DRAINAGE PIPE

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE, SPRING HILL, FL 34608

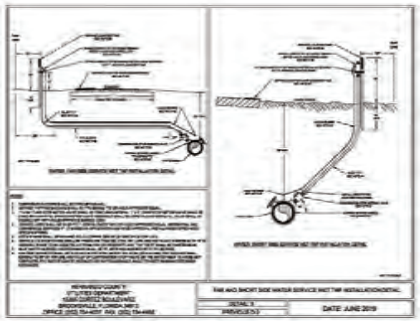
Project number 1932

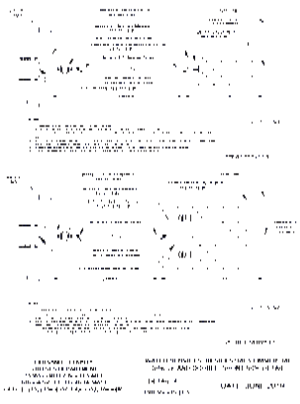
DISTRIBUTION

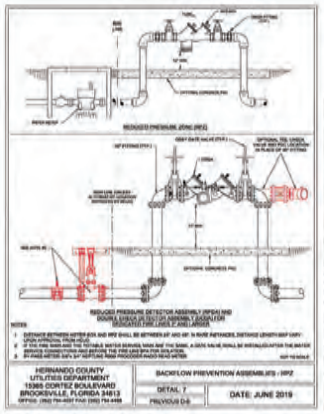
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 1 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

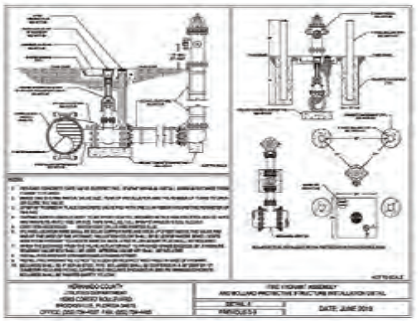
UTILITY PLAN

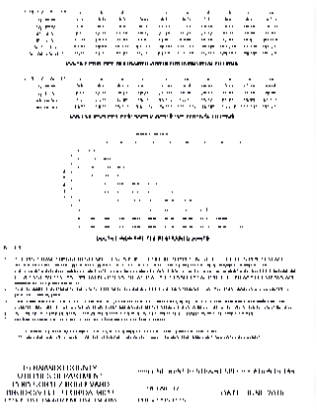
C11

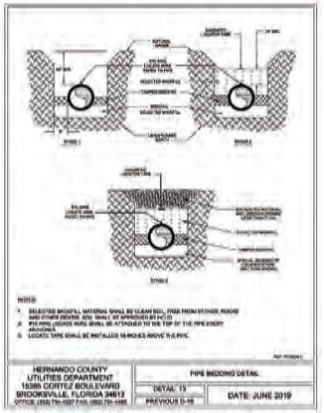


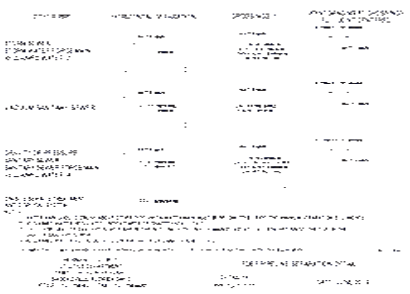


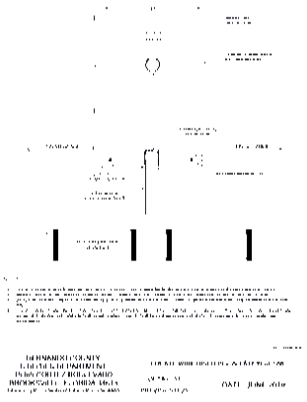


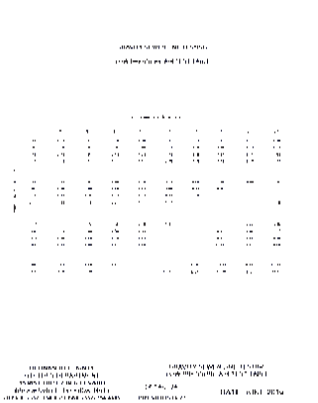


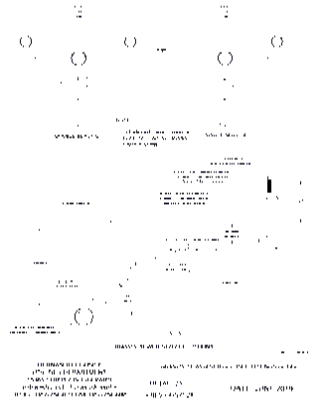


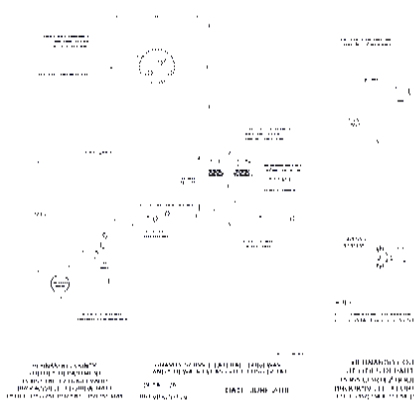


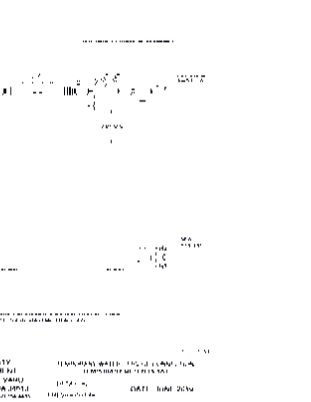












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UTILITY DETAILS

C12

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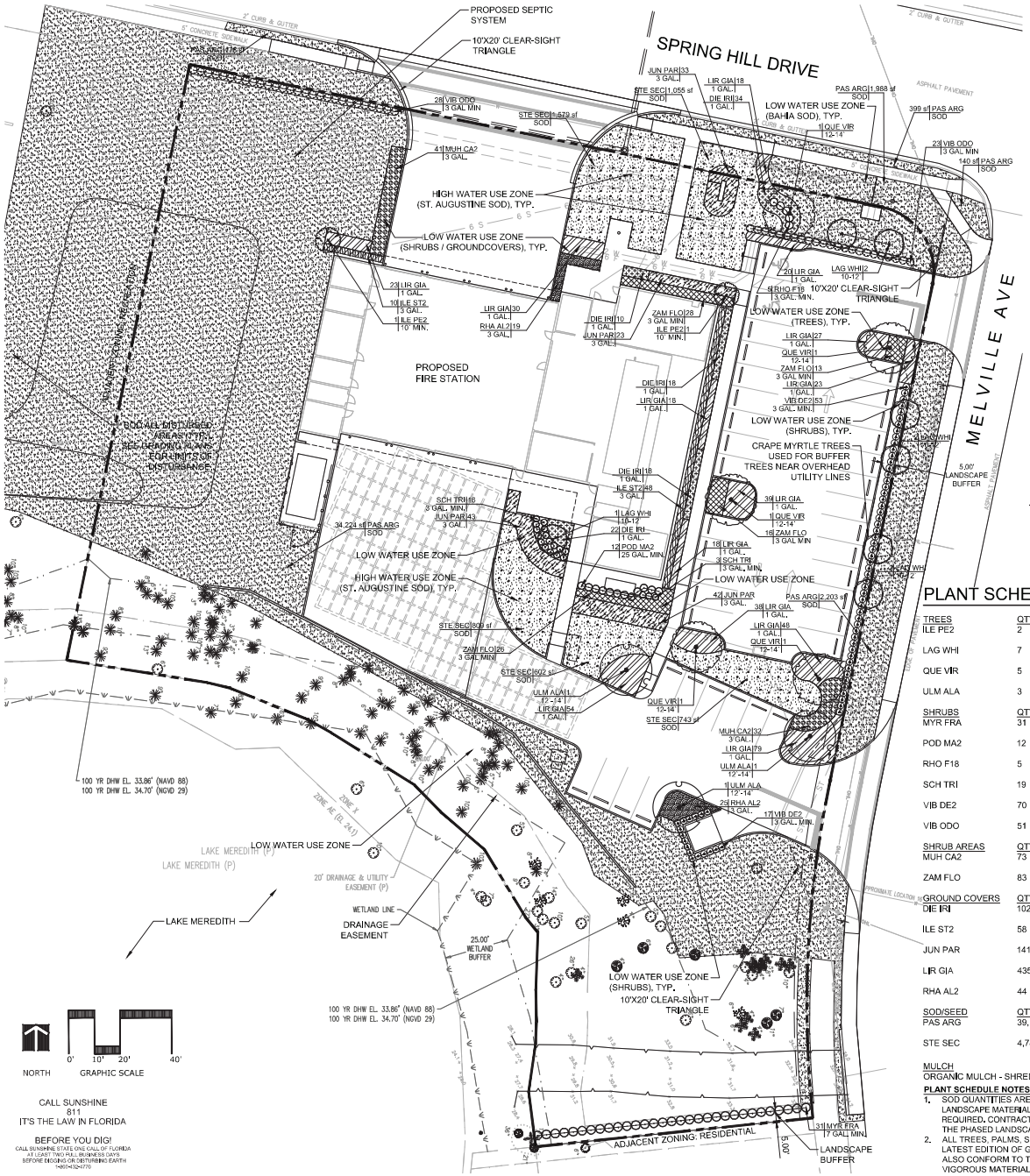

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HERNANDO COUNTY LAND DEVELOPMENT CODE REQUIREMENTS

GROSS PROJECT AREA: +-1.58 AC (69,032 SF)
TOTAL SF OF IMPERVIOUS SURFACES: 39,850 SF
TOTAL SF OF GREEN SPACE: 29,182 SF
ZONING: PDP(REC)

SEC. 10-21 (B) COMMERCIAL PROJECTS REQUIRED LANDSCAPING

LANDSCAPING REQUIRED / PROVIDED:	MINIMUM OF 15 PERCENT OF DEVELOPMENT SITE SHALL BE LANDSCAPING 69,032 SF X 0.15 = 10,355 SF
TREES PER ACRE REQUIRED / PROVIDED:	15 PER ACRE PRESERVED OR INSTALLED (5 SHADE TREES MIN.) 1.58 AC X 15 = 24 TREES TOTAL 5 SHADE TREES PER 15 TREES = 8 SHADE TREES (EXISTING TREES MEET REQUIREMENT)
NATURAL VEGETATION REQ. / PROVIDED:	5% REQUIRED = 3,452 SF PROVIDED NATURAL VEGETATION EXCEED REQUIREMENT.
VEGETATIVE BUFFERS REQ. / PROVIDED:	AT LEAST FIVE FEET IN WIDTH WITH 40 PLANTS PER 100 FEET
IRRIGATION SYSTEM REQUIRED / PROVIDED:	AUTOMATIC IRRIGATION SYSTEM REQUIRED WITH NO MORE THAN 50 PERCENT HIGH WATER USE.
PRIMARY FACADE REQUIRED / PROVIDED:	5 FEET TIMES THE LENGTH OF THE PRIMARY FACADE TIMES 50 PERCENT

SEC. 10-24 TREE PLANTING

TOTAL TREES 18" DBH AND ABOVE TO BE REMOVED:	20" OAK 18" OAK 18" OAK 32" OAK 18" PINE 18" PINE 18" OAK = 7 TREES
TOTAL TREES TO BE PRESERVED:	110 TREES
TOTAL TREES TO BE PLANTED:	17 TREES

SEC. 10-26 VEGETATIVE BUFFER REQUIREMENTS

VEGETATIVE BUFFER REQUIRED / PROVIDED: PROJECTS ADJACENT TO A RESIDENTIAL DISTRICT SHALL PROVIDE A FIVE-FOOT LANDSCAPED VEGETATIVE BUFFER.

CERTIFIED COST ESTIMATE FOR GROUNDCOVER (BAHIA SOD) REPLACEMENT OF PROPOSED DEVELOPMENT AREA; SURETY BOND

97,005 SQ FT X $0.45 PER SQ FT = $43,652
*THIS ESTIMATE IS PROVIDED FOR THE PURPOSE OF A SURETY BOND.

NOTES

1. SOD ALL DISTURBED AREAS.
2. TEMPORARY IRRIGATION FOR PLANTING MATERIAL WITHOUT PERMANENT IRRIGATION: CONTRACTOR SHALL COORDINATE AND PROVIDE PROVISIONS FOR TEMPORARY IRRIGATION FOR ALL PLANT MATERIAL THAT DOES NOT HAVE PERMANENT IRRIGATION. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING ALL EXISTING AND PROPOSED PLANT MATERIAL TO SUPPLEMENT RAINFALL AS REQUIRED DURING CONSTRUCTION AND 90 DAY PLANT ESTABLISHMENT PERIOD (90 DAYS AFTER SUBSTANTIAL COMPLETION ACCEPTANCE). CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL LOST FROM INADEQUATE WATERING DURING 90 DAY ESTABLISHMENT PERIOD.

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	HT.	SPR.	CALIPER	
ILE PE2	2	Ilex vomitoria `Pendula`	Weeping Yaupon Holly	10` MIN.		3" MIN.	
LAG WHI	7	Lagerstroemia x `Natchez`	White Crape Myrtle Standard	10-12`		3" MIN.	
QUE VIR	5	Quercus virginiana	Southern Live Oak	12-14`		3" MIN.	
ULM ALA	3	Ulmus alata	Winged Elm	12`-14`		3" MIN.	
SHRUBS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT.**	**HT.**	**SPR.**	**SPACING**
MYR FRA	31	Myrcianthes fragrans	Simpson`s Stopper	7 GAL. MIN.	5` MIN.	30" MIN.	42" o.c.
POD MA2	12	Podocarpus macrophyllus maki	Shrubby Yew	25 GAL. MIN.	5`	36"	36" o.c.
RHO F18	5	Rhododendron azalea `Fashion`	Azalea	3 GAL. MIN.	18" MIN.	18"	36" o.c.
SCH TRI	19	Schefflera arboricola `Trinette`	Variegated Schefflera	3 GAL. MIN.	24" MIN.	24"	30" o.c.
VIB DE2	70	Viburnum obovatum `Densa`	Dwarf Walter`s Viburnum	3 GAL. MIN.	18" MIN.	18"	30" o.c.
VIB ODO	51	Viburnum odoratissimum	Sweet Viburnum	3 GAL MIN	18" MIN.	18"	36" o.c.
SHRUB AREAS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT.**	**HT.**	**SPR.**	**SPACING**
MUH CA2	73	Muhlenbergia capillaris	Pink Muhly	3 GAL.	18"	18"	30" o.c.
ZAM FLO	83	Zamia floridana	Coontie Palm	3 GAL MIN	18"	18"	30" o.c.
GROUND COVERS	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT.**	**HT.**	**SPR.**	**SPACING**
DIE IRI	102	Dietes iridioides	White African Iris	1 GAL.	12" MIN.	12" MIN.	24" o.c.
ILE ST2	58	Ilex vomitoria `Stokes Dwarf`	Dwarf Yaupon	3 GAL.	14"	14"	30" o.c.
JUN PAR	141	Juniperus chinensis `Parsonii`	Parsoni Juniper	3 GAL.	14"	20"	30" o.c.
LIR GIA	435	Liriope muscari `Evergreen Giant`	Evergreen Giant Border Grass	1 GAL.	12"	12"	24" o.c.
RHA AL2	44	Rhaphiolepis indica `Alba`	White Indian Hawthorn	3 GAL.	14" MIN	14" MIN.	30" o.c.
SOD/SEED	**QTY**	**BOTANICAL NAME**	**COMMON NAME**	**CONT.**	**HT.**	**SPR.**	**SPACING**
PAS ARG	39,133 sf	Paspalum notatum `Argentine`	Bahia Grass	SOD	N.A.	N.A.	
STE SEC	4,788 sf	Stenotaphrum secundatum `CitraBlue` Provide sod growers certificate of grass species.	CitraBlue St. Augustine	SOD			

MULCH
ORGANIC MULCH - SHREDDED MULCH TO BE APPLIED TO ALL PLANTING BEDS, 3 INCH THICK DEPTH.

PLANT SCHEDULE NOTES:

1. SOD QUANTITIES ARE SQUARE FOOT ESTIMATE: ANY DISTURBED AREAS WITHIN AND AROUND SITE OR WITHIN THE R.O.W. THAT ARE NOT COVERED WITH LANDSCAPE MATERIAL OR SOD SHALL BE SODDED. SOD QUANTITIES SHOWN IN SCHEDULE ARE ESTIMATES AND FOR REFERENCE ONLY - ADDITIONAL SOD WILL BE REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING AND VERIFYING REQUIRED SOD QUANTITIES PRIOR TO BID (INCLUDING ADDITIONAL SOD FOR THE PHASED LANDSCAPE AREA).
2. ALL TREES, PALMS, SHRUBS, GROUND COVERS AND OTHER PLANTS SHALL CONFORM TO THE STANDARD OF FLORIDA NO. 1 OR BETTER AS GIVEN IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS BY FLORIDA DEPARTMENT OF AGRICULTURE, PART I AND II. PLANT MATERIAL SHALL ALSO CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (ANSI) BULLETIN Z 60.1 - 1990 AND AS REVISED. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.

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LANDSCAPE PLAN

L1

LANDSCAPE NOTES

1. LANDSCAPE CONTRACTOR SHALL FIELD VERIFY ALL INFORMATION, INCLUDING UNDERGROUND UTILITIES, PRIOR TO INITIATING PLANTING INSTALLATION. REPORT ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DRAWINGS AND FIELD CONDITIONS TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT IMMEDIATELY. FIELD ADJUST LOCATION OF PLANT MATERIAL AS NECESSARY TO AVOID DAMAGE TO ALL EXISTING UNDERGROUND UTILITIES AND/OR EXISTING ABOVE GROUND ELEMENTS. ALL CHANGES SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE AND SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AND THE LANDSCAPE ARCHITECT.
2. ALL CONSTRUCTION SHALL CONFORM TO MEET FEDERAL, STATE, AND LOCAL CODES, REGULATIONS AND ORDINANCES.
3. IT SHALL BE THE LANDSCAPE CONTRACTOR'S SOLE RESPONSIBILITY TO NOTIFY "SUNSHINE" AND ANY OTHER INTERESTED AGENCIES OR PARTIES OF HIS INTENT TO EXCAVATE AND TO OBTAIN FROM ALL AGENCIES OR OTHER INTERESTED PARTIES LOCATIONS OF ALL EXISTING UTILITIES OF EVERY KIND IN THE AREAS WHERE HE INTENDS OR PLANS TO EXCAVATE. SUCH LOCATIONS SHALL BE OBTAINED PRIOR TO STARTING CONSTRUCTION AND SHALL BE MAINTAINED DURING CONSTRUCTION.
4. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND THE COST FOR SUCH ARE TO BE INCLUDED AS PART OF THE BID.
5. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL EXISTING GRASSES, GROUNDCOVERS, AND SHRUBS WHERE NEW PLANTINGS ARE PROPOSED. CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL TO BE REMOVED AND/OR PROTECTED ITEMS WITH OWNER'S REPRESENTATIVE PRIOR TO BID. THIS MAY INCLUDED BUT NOT BE LIMITED TO: SOD, SOIL, PLANT MATERIAL, STUMPS, ETC. CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED WITH SAME SPECIES AND SIZE TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
6. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL WORK WITH RELATED CONTRACTORS AND WITH THE GENERAL CONSTRUCTION OF THE PROJECT IN ORDER NOT TO IMPEDE THE PROGRESS OF THE WORK OF OTHERS OR THE CONTRACTOR'S OWN WORK.
7. THE OWNER OR LANDSCAPE ARCHITECT SHALL HAVE THE RIGHT TO REJECT ANY AND ALL WORK AND MATERIALS WHICH, IN HIS OPINION, DO NOT MEET THE REQUIREMENTS OF THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS.
8. THE LANDSCAPE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL WORK AS SHOWN ON THE PLAN AND CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY OF ANY CONFLICTS AND ADJUST AS PER THE LANDSCAPE ARCHITECTS OR OWNER'S DIRECTION.
9. THE LANDSCAPE CONTRACTOR SHALL CONTROL RUNOFF AND EROSION DURING CONSTRUCTION THROUGH THE USE OF SEDIMENT BASINS, STRAW OR HAY BALES AS APPROPRIATE. THE LANDSCAPE CONTRACTOR SHALL SPRINKLE OR OTHERWISE MANUALLY APPLY WATER TO AFFECTED CONSTRUCTION AREA TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
10. THE LANDSCAPE CONTRACTOR SHALL ASSURE DRAINAGE AND PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL. CONTRACTOR SHALL FILL ALL TREE PITS WITH WATER BEFORE PLANTING TO ASSURE THAT PROPER DRAINAGE AND PERCOLATION IS AVAILABLE. CORRECT IF REQUIRED TO ASSURE PERCOLATION. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ALL PLANTS DUE TO INADEQUATE DRAINAGE CONDITIONS.
11. EXCEPT FOR PLANTINGS IN SURFACE WATER MANAGEMENT AREAS, THE SPECIFIED DEPTH OF ORGANIC MULCH, MEASURED AFTER WATERING-IN, SHALL BE PLACED AND MAINTAINED AROUND ALL NEWLY INSTALLED CANOPY TREES, ACCENT TREES, PALM TREES, AND SHRUBS. EACH TREE SHALL HAVE ORGANIC MULCH NO LESS THAN 36 INCHES BEYOND ITS TRUNK IN ALL DIRECTIONS; HOWEVER, THE MULCH SHALL BE KEPT AWAY FROM THE TRUNKS AND STEMS OF PLANTS SO AS TO AVOID CONDITIONS THAT MAY BE CONDUCIVE TO COLLAR ROT, BASAL CANKER OR OTHER FUNGI.
12. THE LANDSCAPE CONTRACTOR SHALL EXAMINE THE SOILS OF ALL PLANTING AREAS PRIOR TO SUBMITTING BIDS FOR THE SUITABILITY TO SUSTAIN HEALTHY PLANT GROWTH AS CALLED FOR ON THE PLANTING PLAN, DETAILS, AND THESE SPECIFICATIONS. ANY REQUIRED AMENDMENTS AND ADDITIVES SHALL BE INCLUDED AS PART OF THE BID.
13. NO SUBSTITUTIONS SHALL BE MADE TO THE PLANTING PLAN, DETAILS OR THESE SPECIFICATIONS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE LANDSCAPE ARCHITECT.
14. GUYING / STAKING PRACTICES SHALL NOT PERMIT NAILS, SCREWS, WIRES, ETC., TO PENETRATE OUTER SURFACE OF TREE OR PALM. TREES OR PALMS REJECTED DUE TO THIS PRACTICE SHALL BE REPLACED WITH INSPECTOR ON SITE.
15. TREE INSTALLATION: ALL REQUIRED TREES SHALL BE INSTALLED 1"-2" ABOVE FINISHED GRADE. TREES INSTALLED OR BURIED TOO DEEPLY SHALL BE RESET TO THIS STANDARD. REMOVE THE TOP 1/3 OF THE WIRE BASKET ON ALL B&B TREE STOCK.
16. PLANT MATERIAL
    16.1. ALL TREES, PALMS, SHRUBS, GROUND COVERS AND OTHER PLANTS SHALL CONFORM TO THE STANDARD OF FLORIDA NO. 1 OR BETTER AS GIVEN IN THE LATEST EDITION OF GRADES AND STANDARDS FOR NURSERY PLANTS BY FLORIDA DEPARTMENT OF AGRICULTURE, PART I AND II. PLANT MATERIAL SHALL ALSO CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN, INC. (ANSI) BULLETIN Z 60.1 - 1990 AND AS REVISED. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
    16.2. ALL CONTAINER AND CALIPER SIZES NOTED ON PLANT LIST ARE MINIMUM. CONTRACTOR SHALL PROVIDE LARGER CONTAINER MATERIAL IF NECESSARY TO CONFORM TO PLANT SIZE AND SPECIFICATIONS. BOTH MINIMUM DIMENSIONAL SPECIFICATION AND MINIMUM CONTAINER SPECIFICATION SHALL BE MET.
    16.3. ALL PLANTS SHALL BE CONTAINER GROWN EXCEPT AS NOTED ON PLAN. BARE ROOT TREES ARE NOT ACCEPTABLE. ALL PLANTS SHALL BE HARDY UNDER CLIMATIC AND LIGHT CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT AND THE SITE. TREES GROWN IN GROW BAGS OR GROW BAG TYPE MATERIAL MUST HAVE THE GROW BAG REMOVED ENTIRELY PRIOR TO PLANTING. BALLED AND BURLAPPED MATERIAL SHALL HAVE THE BURLAP REMOVED. WIRE CAGES, STRAPS, ETC. MUST BE CUT AND REMOVED PRIOR TO INSTALLATION.
    16.4. SOD SHALL MEET AMERICAN SOD PRODUCERS ASSOCIATION STANDARDS FOR NURSERY GROWN SOD FOR THICKNESS OF CUT, PAD SIZE, STRENGTH OF SECTIONS, MOISTURE CONTENT AND THATCH. SOD SHALL BE GUARANTEED TO BE UNIFORM IN COLOR, LEAF TEXTURE, AND SHOOT DENSITY AND FREE OF WEEDS, DISEASE, FUNGUS, INSECTS OR OTHER IMPERFECTIONS AND SUFFICIENTLY KNITTED TO SUSTAIN GROWTH. SOD SHALL BE MOWED FOR FINAL ACCEPTANCE.
    16.5. TYPICALLY, SHRUB AND GROUNDCOVER PLANTINGS ARE SHOWN AS MASS PLANTING BEDS. PLANTS SHALL BE PLACED ON A TRIANGULAR SPACING CONFIGURATION (STAGGERED SPACING).
17. QUANTITIES, LOCATION AND SUBSTITUTIONS: THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS, AS SPECIFIED, AND IN THE QUANTITIES LISTED ON THE PLANT SCHEDULE. IN THE EVENT OF A VARIATION BETWEEN THE PLANT SCHEDULE AND THE ACTUAL NUMBER OF PLANTS SHOWN ON THE PLANTING PLAN, THE HIGHER QUANTITY SHALL PREVAIL. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO ADJUST THE NUMBER AND LOCATIONS OF THE DESIGNATED TYPES AND SPECIES OF PLANTS TO BE USED AT ANY OF THE LOCATIONS SHOWN. THE OWNER SHALL RECEIVE A CREDIT OR DEBIT FOR THE UNIT PRICE OF THE PLANT MATERIAL. NO SUBSTITUTION OF PLANT MATERIAL, TYPES, SPECIFICATIONS OR SIZES WILL BE PERMITTED WITHOUT WRITTEN AUTHORIZATION FROM THE LANDSCAPE ARCHITECT. THE OWNER AND/OR LANDSCAPE ARCHITECT RESERVES THE RIGHT TO NOT ACCEPT PLANT MATERIAL THAT DOES NOT, IN THE OPINION OF THE OWNER AND/OR LANDSCAPE ARCHITECT, MEET THE SPECIFICATIONS HEREIN.
18. IRRIGATION: UNLESS SPECIFICALLY NOTED OTHERWISE, ALL EXISTING AND PROPOSED TREES, SHRUBS, AND GROUNDCOVERS SHALL BE IRRIGATED WITH AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM. SYSTEM SHALL BE EQUIPPED WITH A RAIN SENSOR DEVICE CONNECTED TO AN IRRIGATION CONTROLLER(S), AS PER STATE OF FLORIDA REGULATIONS. AFTER PLANT ESTABLISHMENT, THE CONTROLLER SHALL BE PROGRAMMED TO OPERATE IN COMPLIANCE WITH APPLICABLE WATERING RESTRICTIONS. IRRIGATION SHALL PROVIDE 100% COVERAGE TO PROPOSED LANDSCAPING AREAS AND SOD AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND PERMITTING THE IRRIGATION SYSTEM IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE BUILDING CODES. THE COST OF INSTALLATION, PERMITTING, AND CREATING AS-BUILT DRAWINGS SHALL BE INCLUDED IN THE BID PRICE FOR IRRIGATION.
    18.1. LANDSCAPE CONTRACTOR SHALL COORDINATE ALL PLANTING WORK WITH IRRIGATION WORK. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL HAND WATERING ALL EXISTING AND PROPOSED PLANT MATERIAL AS REQUIRED BY OWNER'S REPRESENTATIVE TO SUPPLEMENT IRRIGATION WATERING AND RAINFALL. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS, REGARDLESS OF THE STATUS OF EXISTING OR PROPOSED IRRIGATION. CONTRACTOR SHALL TEMPORARILY WATER ANY NON IRRIGATED LAWN AREAS AS REQUIRED FOR ESTABLISHMENT.
    18.2. IRRIGATION LINES SHALL BE HAND DUG AROUND EXISTING TREES AND TUNNELED BENEATH TREE ROOTS OF EXISTING TREES, RATHER THAN TRENCHED.
    18.3. SEE IRRIGATION SHEETS FOR IRRIGATION REQUIREMENTS.
19. FERTILIZATION: PROVIDE FERTILIZER UNIFORM IN COMPOSITION, DRY, AND IN A FREE FLOWING CONDITION FOR APPLICATION BY SUITABLE EQUIPMENT, AND DELIVER IN UNOPENED BAGS OR CONTAINERS, EACH FULLY LABELED.
    19.1. CONTRACTOR SHALL CONDUCT A SOIL TEST PRIOR TO APPLICATION OF ANY SOIL AMENDMENTS, FERTILIZERS AND BACKFILL MIXTURES. FERTILIZE LANDSCAPE PLANTS AND TURF COMPLYING WITH STATE AND LOCAL FERTILIZER LAWS AND CODES AND AT A RATE AS RECOMMENDED BY THE SOIL TEST.
    19.1. FERTILIZE TREES, SHRUBS, AND GROUND COVERS WITH A COMPLETE, ORGANIC, SLOW-RELEASE, FERTILIZER.
    19.2. FERTILIZE TURF WITH A COMPLETE, ORGANIC, SLOW-RELEASE, FERTILIZER, PROVIDE AT LEAST 50% OF THE PHOSPHORIC ACID FROM NORMAL SUPER PHOSPHATE OR AN EQUIVALENT SOURCE PROVIDING A MINIMUM OF TWO UNITS OF SULFUR. THE AMOUNTS OF SULFUR AND ALL OTHER CHEMICAL SHALL BE INDICATED ON THE QUANTITATIVE ANALYSIS CARD ATTACHED TO THE UNOPENED BAG.
20. SOIL PREPARATION AND SOIL MIX
    20.1. CONTRACTOR TO ENSURE TOTAL WEED ERADICATION. ANY HERBICIDE APPLIED SHALL BE BY A LICENSED PEST AND CONTROL OPERATOR OF LAWN AND ORNAMENTAL. APPROVED HERBICIDE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RATE AND SPECIFICATION WITHIN LIMITS OF ALL AREAS TO BE PLANTED. PROTECT EXISTING PLANTS TO REMAIN FROM OVERSPRAY OR SPRAY WITHIN ROOT ZONE.
    20.2. BEFORE PLACING TOPSOIL, RAKE SUBSOIL SURFACE CLEAR OF STONES (1 INCH DIAMETER AND LARGER), DEBRIS, RUBBISH, REMAINS OF REMOVED PLANT MATERIAL, AND ALL REMAINING CONSTRUCTION DEBRIS TO A DEPTH OF 6". CONTAMINATED SOILS SHALL BE REMOVED AND REPLACED TO THEIR FULL DEPTHS AND EXTENTS.
    20.3. SCARIFY SUBSOIL TO A DEPTH OF 3 INCHES.
    20.4. A LICENSED PEST AND CONTROL OPERATOR OF LAWN AND ORNAMENTAL SHALL APPLY APPROVED PRE-EMERGENT HERBICIDE IN ACCORDANCE WITH THE MANUFACTURER'S RATE AND SPECIFICATIONS.
    20.5. PLANTING LANDSCAPE BEDS (SHRUBS AND GROUNDCOVERS): ALL LANDSCAPE BEDS TO BE MULCHED SHALL BE ROUGH GRADED TO AN ELEVATION OF 16 TO 17 INCHES BELOW THE TOP OF ADJACENT HARDSCAPE OR FINAL FINISHED GRADE TO PROVIDE ROUGH 12 INCHES OF BACKFILL MIXTURE, 3 INCHES OF MULCH WITH A 2 INCH REVEAL ON THE CURB, ADJOINING SIDEWALK, OR OTHER HARDSCAPE FEATURE. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS AND SOD AREAS. IF NECESSARY, THE GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND GRADING OF TOPSOIL. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.
    20.6. PLANTING LAWNS: REMOVE ANY EXISTING SUB-BASE OR COMPACTED MATERIALS TO EXPOSE A FRIABLE SOIL LAYER. LOOSEN SOIL/TOPSOIL OF LAWN AREAS TO MINIMUM DEPTH OF 8". ADD 3" TOPSOIL OR ORGANIC MATERIAL AS REQUIRED FROM ORGANIC MATTER CHECK. TILL INTO TOP 8" OF EXISTING SOIL. SEE LANDSCAPE PLANS FOR LOCATION OF LANDSCAPE BEDS AND SOD AREAS. IF NECESSARY, THE GENERAL CONTRACTOR AND LANDSCAPE CONTRACTOR SHALL COORDINATE THE INSTALLATION AND GRADING OF TOPSOIL. SEE SPECIFICATIONS FOR BACKFILL MIXTURE.
    20.7. FINISH GRADE ALL PREPARED TOPSOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM THE STRUCTURES AND ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER. SEE CIVIL GRADING PLANS.
21. BACKFILL MIXTURE:
    21.0.1. TREES, ROYAL PALMS, SHRUBS, GROUNDCOVERS, LAWNS: 45% SAND, 45% TOPSOIL, 10% PEAT HUMUS.
    21.0.2. ALL OTHER PALMS: 3/4 SAND, 1/4 TOPSOIL
    21.0.3. SAND SHALL BE CLEAN, SILICA, SALT-FREE AND CONTAINING NO EXTRANEOUS MATTER.
    21.0.4. TOPSOIL SHALL BE FREE OF DELETERIOUS MATERIALS THAT WOULD BE HARMFUL TO PLANT GROWTH, SHALL BE FREE OF NEMATODES, SHALL BE OF UNIFORM QUALITY, AND SHALL BE FRIABLE FERTILE SOIL WITH REPRESENTATIVE CHARACTERISTICS OF AREA SOILS. IT SHOULD BE FREE OF HEAVY CLAY, SILT, STONE, EXCESS LIME, SHELL ROCK, PLANT ROOTS, WEEDS, DEBRIS OR OTHER FOREIGN MATTER. IT SHALL NOT CONTAIN NOXIOUS PLANT GROWTH (SUCH AS BERMUDA, TORPEDO OR NUT GRASS). IT SHALL TEST BETWEEN THE PH RANGE OF 5.5 TO 7.0 UNLESS OTHERWISE SPECIFIED AND CONTAIN NO TOXIC RESIDUE OR SUBSTANCES THAT WOULD ENDANGER PLANT GROWTH. OBTAIN TOPSOIL ONLY FROM NATURALLY, WELL-DRAINED SITES WHERE TOPSOIL OCCURS IN A DEPTH NOT LESS THAN 4".
        21.0.4.1. SOIL AMENDMENTS: SOIL TESTING SHALL BE PERFORMED IN ALL PLANTING AREAS (INCLUDING SODDED AREAS) PRIOR TO CONSTRUCTION WITH RESULTS SUBMITTED TO LANDSCAPE ARCHITECT. SOIL AMENDMENTS SHALL BE ADDED AS NECESSARY TO MEET THE FOLLOWING PARAMETERS:
            21.0.4.1.1. PH RANGE: 5.5-7.0
            21.0.4.1.2. ORGANIC MATTER: 2.0-5.0%
            21.0.4.1.3. SOLUBLE SALT LEVEL: LESS THAN 2 MMHO/CM.
            21.0.4.1.4. SOIL CHEMISTRY SUITABLE FOR GROWING THE PLANTS SPECIFIED.
    21.0.5. PEAT HUMUS SHALL BE DECOMPOSED PEAT WITH NO IDENTIFIABLE FIBERS OR IF AVAILABLE, MUCH MAY BE SUBSTITUTED AND SHALL BE FREE FROM STONES, EXCESSIVE PLANT ROOTS, DEBRIS OR OTHER FOREIGN MATTER. MUCK SHALL NOT BE OVERLY SATURATED WITH WATER. HUMUS SHALL BE OF GOOD QUALITY, MATURE, DARK COLOR, OF HUMUS-LIKE QUALITY, AND HAVE PLEASANT SOIL SMELL.
    21.0.6. BACKFILL MIX SAMPLES AND LABORATORY SOIL TESTS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL. CONTRACTOR SHALL TAKE RESPONSIBILITY FOR PERFORMING PERCOLATION TESTS PRIOR TO BACKFILLING WITH APPROVED PLANTING SOIL.
22. SOD INSTALLATION: LAY SOD TO FORM A SOLID MASS WITH TIGHTLY-FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAY EDGES. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. REMOVE EXCESS SOD TO AVOID SMOTHERING OF ADJACENT GRASS. PROVIDE SOD PAD TOP FLUSH WITH ADJACENT CURBS, SIDEWALKS, DRAINS AND SEED AREAS.
    22.1. DO NOT LAY DORMANT SOD OR INSTALL SOD ON SATURATED SOIL.
    22.2. INSTALL INITIAL ROW OF SOD IN A STRAIGHT LINE, BEGINNING AT BOTTOM OF SLOPES, PERPENDICULAR TO DIRECTION OF THE SLOPED AREA. PLACE SUBSEQUENT ROWS PARALLEL TO AND LIGHTLY AGAINST PREVIOUSLY INSTALLED ROW.
    22.3. PEG SOD ON SLOPES GREATER THAN 3 TO 1 TO PREVENT SLIPPAGE AT A RATE OF 2 STAKES PER YD. OF SOD.
    22.4. WATER SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER LAYING.
    22.5. ROLL WITH LIGHT LAWN ROLLER TO ENSURE CONTACT WITH SUBGRADE.
    22.6. SOD INDICATED AREAS WITHIN CONTRACT LIMITS AND AREAS ADJOINING CONTRACT LIMITS DISTURBED AS A RESULT OF CONSTRUCTION OPERATIONS.
    22.7. TOP DRESS ALL SEAMS OF SODDED AREA WITH SPECIFIED TOPSOIL.
23. MULCH: ALL MULCH BED QUANTITIES TO BE DETERMINED BY CONTRACTOR. CONTRACTOR SHALL MULCH ALL PLANT MATERIAL THROUGHOUT AND COMPLETELY TO A THREE (3) INCH DEPTH WITH CLEAN, WEED FREE MELALEUCA WOOD CHIPS. PLANT BEDS WITHIN STORMWATER BASINS SHALL BE MULCHED WITH PINE STRAW MULCH.
24. TREE PROTECTION: PROTECT ALL TREES AND PALMS TO REMAIN WITH TREE BARRICADES. IMMEDIATELY FOLLOWING VEGETATION REMOVAL, EXISTING SLOPES GREATER THAN 3 TO 1 SHALL BE PROTECTED FROM EROSION AS REQUIRED BY LOCAL CODE. THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE BARRICADED AREA: VEHICULAR AND PEDESTRIAN TRAFFIC; STORAGE OF CONSTRUCTION MATERIALS; PLACEMENT OF EXCAVATED MATERIALS OR TRASH; AND ANY ACTIVITIES THAT MAY DISTURB THE ROOT SYSTEM WITHIN THE BARRICADED AREA.
    24.1. ALL REQUIRED TREE REMOVAL OR RELOCATION PERMITS SHALL BE PROCURED BY CONTRACTOR, PRIOR TO COMMENCEMENT OF WORK.
    24.2. ALL PROTECTED TREES SHALL BE TRIMMED IN A MANNER CONSISTENT WITH THE "AMERICAN NATIONAL STANDARD FOR TREE CARE OPERATIONS, ANSI, A300, CURRENT EDITION."
25. MAINTENANCE: THE CONTRACTOR IS RESPONSIBLE FOR COMPLETE MAINTENANCE OF ALL PROPOSED PLANTING AREAS (INCLUDING WATERING, SPRAYING, MULCHING, MOWING, FERTILIZING, ETC.) THROUGHOUT THE ENTIRE COURSE OF THE PROJECT. LANDSCAPE CONTRACTOR SHALL CLEAN THE WORK AREAS AT THE END OF EACH WORKING DAY. RUBBISH AND DEBRIS SHALL BE COLLECTED AND DEPOSITED OFF-SITE DAILY. ALL MATERIALS, PRODUCTS, AND EQUIPMENT SHALL BE STORED IN AN ORGANIZED FASHION AS DIRECTED BY OWNER'S REPRESENTATIVE.
26. FINAL ACCEPTANCE: CONTRACTOR TO REQUEST INSPECTION OF PROJECT IN WRITING. IF ALL WORK IS SATISFACTORY AND COMPLETE IN ACCORDANCE WITH CONDITIONS OF CONTRACT DOCUMENTS, THEN THE OWNER AND LANDSCAPE ARCHITECT SHALL DECLARE SUBSTANTIALLY COMPLETE. SUBSTANTIAL COMPLETION CONSTITUTES THE BEGINNING OF THE GUARANTEE PERIOD.
27. WARRANTY / GUARANTEE PERIOD: CONTRACTOR TO WARRANT AND GUARANTEE PLANT MATERIAL FOR A ONE (1) YEAR PERIOD FOLLOWING DATE OF SUBSTANTIAL COMPLETION. PRIOR TO ISSUING SUBSTANTIAL COMPLETION NOTICE THE CONTRACTOR SHALL SUBMIT TO THE OWNER COPIES OF AS BUILT PLANS / DOCUMENTS AND COPIES OF AN ANNUALIZED MAINTENANCE AND OPERATION MANUAL DETAILING ALL SCHEDULES, NURSERY PRACTICES, WATERING REQUIREMENTS, FERTILIZATION, TRIMMING, ETC. FOR ALL PLANT MATERIALS AND PLANT AREAS OF THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TREE STAKES AND GUY WIRES FROM TREES WHICH ARE ESTABLISHED AT THE END OF ONE (1) YEAR GUARANTEE PERIOD. TREES WHICH HAVE BEEN REPLACED SHALL REMAIN STAKED FOR ONE (1) FULL GROWING SEASON, AND THE OWNER SHALL BE RESPONSIBLE FOR REMOVING TREE STAKES AND GUY WIRES.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34606

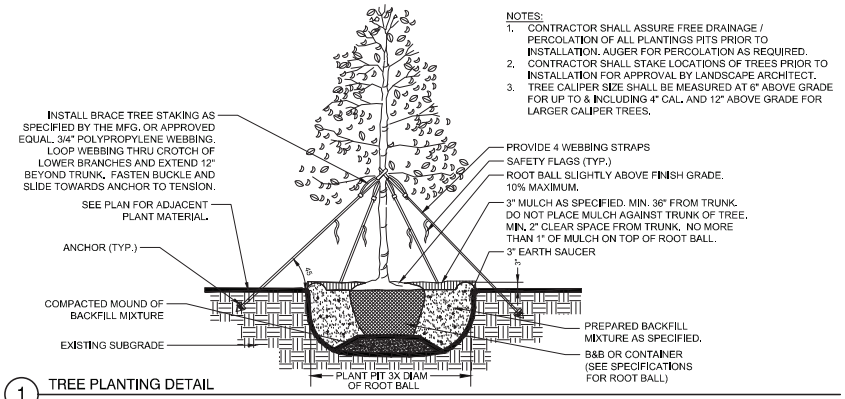
Project Number
1932

Distribution

MILESTONE	DATE
PERMIT SET	06/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 2 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

LANDSCAPE NOTES

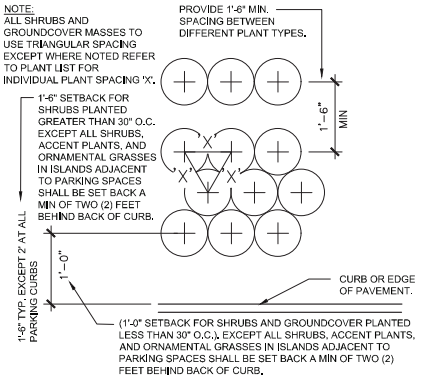
L2



1 TREE PLANTING DETAIL

1" = 1'-0"

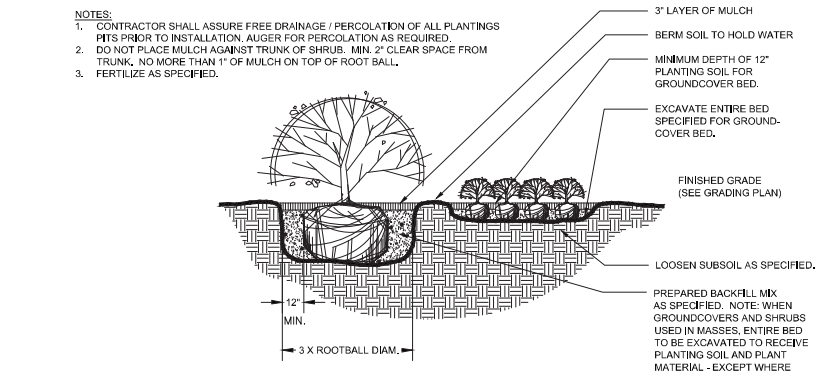
P-HE1-06



2 TYPICAL PLANT SPACING

1" = 1'-0"

P-HE1-01



3 SHRUB AND GROUNDCOVER PLANTING

1" = 1'-0"

P-HE1-08

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LANDSCAPE DETAILS

L3

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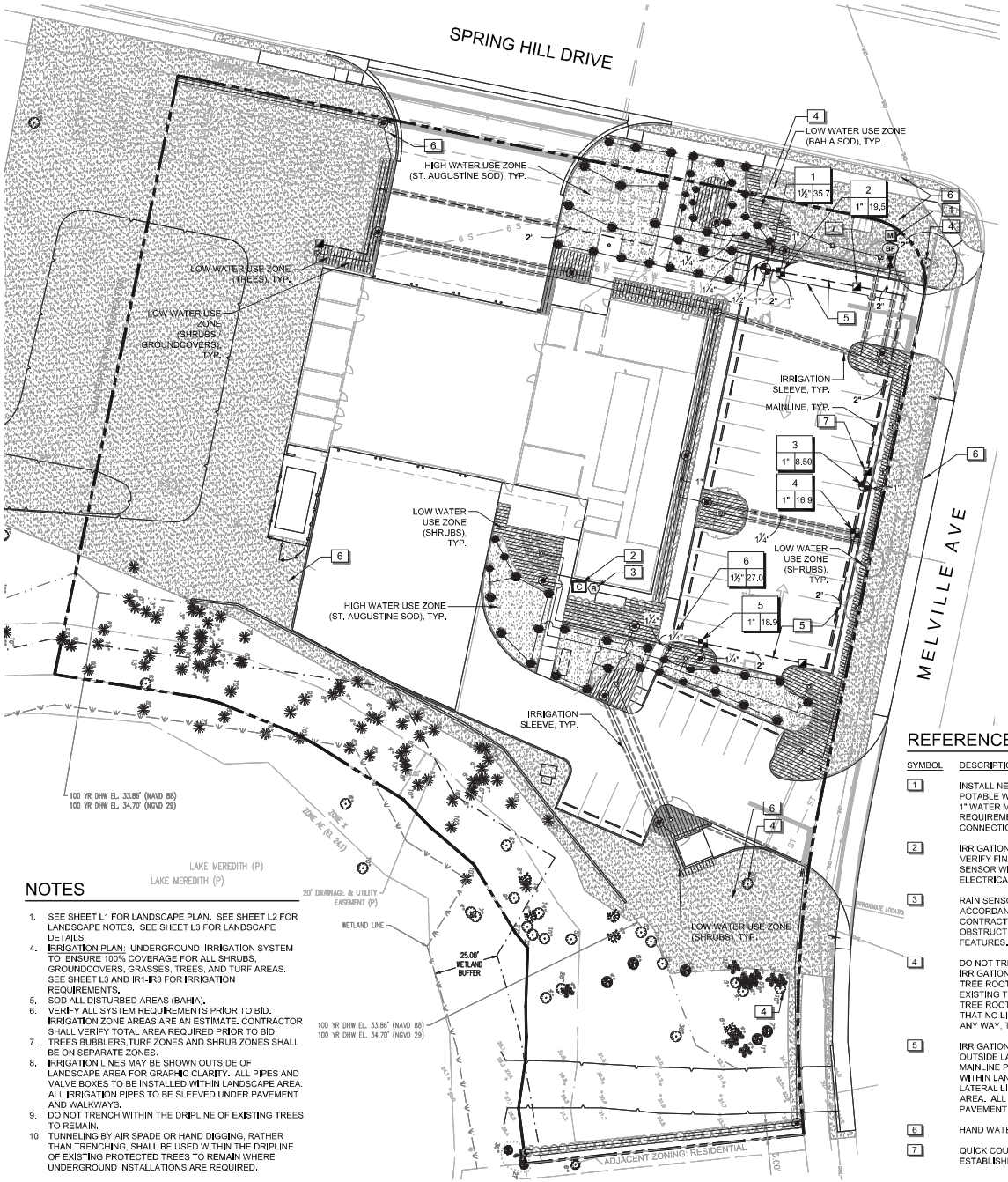

NOTES

1. SEE SHEET L1 FOR LANDSCAPE PLAN. SEE SHEET L2 FOR LANDSCAPE NOTES. SEE SHEET L3 FOR LANDSCAPE DETAILS.
4. IRRIGATION PLAN: UNDERGROUND IRRIGATION SYSTEM TO ENSURE 100% COVERAGE FOR ALL SHRUBS, GROUNDCOVERS, GRASSES, TREES, AND TURF AREAS. SEE SHEET L3 AND IR1-IR3 FOR IRRIGATION REQUIREMENTS.
5. SOD ALL DISTURBED AREAS (BAHIA).
6. VERIFY ALL SYSTEM REQUIREMENTS PRIOR TO BID. IRRIGATION ZONE AREAS ARE AN ESTIMATE. CONTRACTOR SHALL VERIFY TOTAL AREA REQUIRED PRIOR TO BID.
7. TREES BUBBLERS,TURF ZONES AND SHRUB ZONES SHALL BE ON SEPARATE ZONES.
8. IRRIGATION LINES MAY BE SHOWN OUTSIDE OF LANDSCAPE AREA FOR GRAPHIC CLARITY. ALL PIPES AND VALVE BOXES TO BE INSTALLED WITHIN LANDSCAPE AREA. ALL IRRIGATION PIPES TO BE SLEEVED UNDER PAVEMENT AND WALKWAYS.
9. DO NOT TRENCH WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN.
10. TUNNELING BY AIR SPADE OR HAND DIGGING, RATHER THAN TRENCHING, SHALL BE USED WITHIN THE DRIPLINE OF EXISTING PROTECTED TREES TO REMAIN WHERE UNDERGROUND INSTALLATIONS ARE REQUIRED.

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	INSTALL NEW IRRIGATION POINT OF CONNECTION AT POTABLE WATER SUPPLY. COORDINATE INSTALLATION OF 1" WATER METER AND 2" SERVICE LINE PER COUNTY REQUIREMENTS. SEE CIVIL SHEETS FOR POINT OF CONNECTION.
2	IRRIGATION CONTROLLER TO BE MOUNTED ON WALL. VERIFY FINAL LOCATION OF CONTROLLER AND RAIN SENSOR WITH OWNER'S REPRESENTATIVE. COORDINATE ELECTRICAL CONNECTION AS REQUIRED.
3	RAIN SENSOR TO BE INSTALLED ON ROOF AND IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. CONTRACTOR SHALL ENSURE RAINFALL IS NOT OBSTRUCTED BY ARCHITECTURAL OR MECHANICAL FEATURES.
4	DO NOT TRENCH UNDER EXISTING TREES. LOCATE IRRIGATION LINES TO AVOID CONFLICT WITH EXISTING TREE ROOTS. IRRIGATION LINES WITHIN THE DRIPLINE OF EXISTING TREES TO REMAIN SHALL BE TUNNELED UNDER TREE ROOTS WITH AIR SPADE OR BY HAND DIGGING SO THAT NO LIMBS, ROOTS, OR BRANCHES ARE DAMAGED IN ANY WAY, TYP.
5	IRRIGATION MAINLINE AND/OR LATERAL LINE SHOWN OUTSIDE LANDSCAPE AREA FOR GRAPHIC CLARITY. ALL MAINLINE PIPES AND VALVE BOXES TO BE INSTALLED WITHIN LANDSCAPE AREA AND PROJECT BOUNDARY. ALL LATERAL LINES TO BE INSTALLED WITHIN LANDSCAPE AREA. ALL IRRIGATION PIPES TO BE SLEEVED UNDER PAVEMENT AND WALKWAYS.
6	HAND WATER BAHIA SOD FOR ESTABLISHMENT, TYP.
7	QUICK COUPLER PROVIDED FOR HAND WATERING SOD FOR ESTABLISHMENT, TYP.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q H F	Rain Bird 1806-PRS 5 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	4	30
Q T H F	Rain Bird 1806-PRS 8 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	17	30
Q T H F	Rain Bird 1806-PRS 10 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	7	30
Q T H TQ F	Rain Bird 1806-PRS 12 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	12	30
Q T H TQ F	Rain Bird 1806-PRS 15 Series MPR Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	23	30
8H-EVAN 10H-EVAN 8H-EVAN 10H-EVAN	Rain Bird 1806-PRS HE-VAN Series Turf Spray 6.0" Pop-Up Sprinkler with Co-Molded Wiper Seal. Side and Bottom Inlet. 1/2" NPT Female Threaded Inlet. Pressure Regulating.	1	30
1401 1402 1404 1406	Rain Bird 1804-PRS-1400 Flood Flood Bubbler 4.0" popup with pressure regulating device.	17	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird XCZ-100-PRB-COM Wide Flow Drip Control Kit for Commercial Applications, 1" Ball Valve with 1" PESB Valve and 1" Pressure Regulating 40psi Quick-Check Basket Filter, 0.3gpm to 20gpm.	3
	Pipe Transition Point in Drip Box Pipe transition point from PVC lateral to drip tubing with riser in 6" (150mm) drip box.	14
	Area to Receive Dripline Rain Bird XFD-09-12 XFD On-Surface Pressure Compensating Landscape Dripline. 0.9 GPH emitters at 12" O.C. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	5,530 s.f.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PEB 1", 1-1/2", 2" Plastic Industrial Valves. Low Flow Operating Capability. Globe Configuration.	3
	Rain Bird 44-LRC 1" Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Locking Thermoplastic Rubber Cover, and 2-Piece Body.	4
	Nibco TI-8 Gate Valve - Brass, Full Port, Threaded Ends, Size range - 1/4" to 4"	1
BF	Backflow Preventer Device 1" Approved backflow preventer device per industry standards and applicable codes. See Civil sheets.	1
BF	Backflow Preventer Device 1" Approved reduced pressure zone assembly per industry standards and applicable codes. See Civil sheets.	1
C	Rain Bird ESP4ME with (1) ESP-SM3 7 Station, Hybrid Modular Outdoor Controller. For Residential or Light Commercial Applications.	1
R	Rain Bird WR2-RC Wireless Rain Sensor Combo, includes 1 receiver and 1 rain sensor transmitter.	1
M	Water Meter 1" Irrigation system is designed based on assumed water pressure of 60 PSI prior to point of connection. Verify actual pressure and flow rate.	1
	Irrigation Lateral Line: PVC Class 200 SDR 21	
	Irrigation Mainline: PVC Schedule 40	
	Pipe Sleeve: PVC Schedule 40	

Valve Callout
Valve Number
Valve Size
Valve Size

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HERNANDO COUNTY FIRE STATION #5

9282 SPRING HILL DRIVE SPRING HILL, FL 34608

Project Number
1932

Distribution

MILESTONE	DATE
PERMIT SET	06/21/20
REV 1 COUNTY COMMENTS	10/28/20
REV 2 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

IRRIGATION PLAN

IR1

IRRIGATION NOTES

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL REGULATIONS AND CODES FOR THE LOCATION OF WORK. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED TO COMPLETE WORK.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION AND THE COST FOR SUCH ARE TO BE INCLUDED AS PART OF THE BID.
3. THE CONTRACTOR SHALL INSPECT THE SITE AND VERIFY CONDITIONS AND DIMENSIONS PRIOR TO DESIGN AND CONSTRUCTION. ESTIMATED LINEAR FEET AND SQUARE FEET QUANTITIES IN IRRIGATION SCHEDULE DO NOT TAKE GRADE CHANGES INTO ACCOUNT. CONTRACTOR SHALL VERIFY ALL TOTAL QUANTITIES REQUIRED FOR COMPLETION OF WORK PRIOR TO BID.
4. THE IRRIGATION CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS AND MATERIAL CUT SHEET UPON INSTALLATION COMPLETION AS AS A TERM OF FINAL ACCEPTANCE. THIS COST SHALL BE ACCOMMODATED IN THE BID.
5. IRRIGATION PLANS ARE SCHEMATIC REPRESENTATIONS ONLY. FIELD ADJUST LINES TO AVOID CONFLICT WITH UTILITIES.
6. IRRIGATION SYSTEM IS DESIGNED BASED ON ASSUMED WATER PRESSURE OF **60 PSI** PRIOR TO POINT OF CONNECTION. VERIFY ACTUAL PRESSURE AND FLOW RATE PRIOR TO BID SUBMISSION AND NOTIFY OWNER'S REPRESENTATIVE IF DIFFERENCES ARISE BETWEEN ACTUAL PRESSURE AND DESIGN PRESSURE.
7. IRRIGATION IS COORDINATED WITH THE PLANTING PLAN AND SITE IMPROVEMENTS AND IS DESIGNED WITH TRIANGULAR SPACING GIVING HEAD TO HEAD COVERAGE. COORDINATE IRRIGATION HEAD LAYOUT WITH NEW PLANT MATERIALS. LOCATE SPRAY HEADS 30" FROM BASE OF TREE. DO NOT ALTER HEAD LOCATION, PIPE LAYOUT, OR VALVE LOCATION WITHOUT APPROVAL FROM THE CONSTRUCTION MANAGER. NOTIFY OWNER'S REPRESENTATIVE IF DISCREPANCIES OCCUR BETWEEN THE PLANS AND FIELD CONDITIONS.
8. COORDINATE IRRIGATION POINTS OF CONNECTION AND LOCATION OF AUTOMATIC CONTROL VALVES WITH PROJECT MANAGER, COORDINATE ALL WORK WITH OTHER TRADES, I.E. ELECTRICAL, MASONRY, ETC.
9. USE 45 ELLS INSTEAD OF 90 ELLS ON ALL MAINLINES 2-1/2" AND LARGER. INSTALL CONCRETE THRUST BLOCKS AT ALL MAINLINE CHANGES IN DIRECTION. POUR MINIMUM OF 1 CUBIC FOOT OF CONCRETE ON UNDISTURBED SOIL. WRAP PIPE IN PLASTIC WRAP PRIOR TO COVERING WITH CONCRETE.
10. THIS SYSTEM SHALL BE AUTOMATED AND SHALL AVOID THE APPLICATION (OR INDIRECT RUNOFF) OF WATER IN IMPERVIOUS AREAS AND EXISTING NATIVE VEGETATION.
11. ALL COMPONENTS OF IRRIGATION SYSTEM SHALL BE INSTALLED AND PROPERLY ADJUSTED TO PROVIDE ADEQUATE COVERAGE AND MINIMIZATION OF OVER SPRAY ONTO WALKS, BUILDINGS, PARKING AREAS, ETC.
12. IRRIGATION HEADS IN PLANTING BEDS SHALL BE 12" POP-UP MINIMUM AND 6" POP-UP MINIMUM IN SOD AREAS. RISERS, IF INSTALLED, SHALL BE PVC CONSISTENT WITH LATERAL PIPING. INSTALL QUICK COUPLERS AS REQUIRED OR AS NOTED.
13. INSTALL ALL IRRIGATION PIPE AND CONTROL WIRES IN MINIMUM 4" PVC SLEEVE BELOW ALL PAVED SURFACES UNLESS OTHERWISE INDICATED ON THE PLANS. INSTALL SLEEVES PRIOR TO PLACEMENT OF PAVEMENTS AND PAVEMENT SUB-BASE.
14. PROVIDE POSITIVE DRAINAGE OF MAINLINE. PLACE MANUAL DRAIN AT LOW POINTS IN MAINLINE, IDENTIFY LOCATIONS ON AS-BUILTS.
15. ALL VALVE BOXES AND COVERS SHALL HAVE LOCKING LIDS AND A WATERPROOF, FADE-RESISTANT TAG, ALL QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES, VALVE BOXES AND COVERS SHALL BE **GREEN.**
16. CONTRACTOR TO INSTALL CONTROLLER, PUMP EQUIPMENT, AND ALL IRRIGATION ACCESSORIES AS REQUIRED. CONTRACTOR TO FURNISH CONTROL WIRES FROM VALVES TO CONTROLLER. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING 110 VOLT SERVICE FROM BUILDING AND CONNECTION TO CONTROLLER SERVICE.
17. INSTALL ONE (1) ADDITIONAL RED CONTROL WIRE AND ONE (1) ADDITIONAL WHITE CONTROL WIRE FROM CONTROLLER TO END OF MAINLINE.
18. THE RAIN SHUTOFF DEVICE SHALL BE INSTALLED TO MEET LOCAL CODES AND/OR MINIMUM MANUFACTURER'S RECOMMENDATIONS, OBSTRUCTIONS, VANDALISM AND EASE OF SERVICE SHALL BE CONSIDERED IN LOCATING THE DEVICE. ALL WIRING BETWEEN THE RAIN SWITCH AND THE IRRIGATION CONTROLLER SHALL BE ENCLOSED IN 1/2" PVC ELECTRICAL CONDUIT. VERIFY FINAL LOCATION WITH OWNER'S REPRESENTATIVE.
19. IRRIGATION SLEEVING TO BE A MINIMUM OF SCHEDULE 40 PVC AND SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SLEEVING INSTALLATION UNLESS THIS WORK IS IN THE IRRIGATION SCOPE OF WORK. SLEEVING SHALL BE CLEARLY MARKED, FLAGGED, OR OTHERWISE DELINEATED ABOVE GRADE TO AVOID DAMAGE AND PROVIDE EASE OF LOCATION FOR FUTURE WORK.
20. PIPE SIZING SHALL BE DETERMINED BY THE FRICTION LOSS METHOD AND WATER VELOCITY SHALL NOT EXCEED 5 FEET PER SECOND. CONSTANT PRESSURE PIPING SHALL BE SCH 40 PVC. ALL PIPE SIZES INDICATED ARE MINIMUMS. CONTRACTOR MAY NOT DECREASE PIPE SIZE. LARGER PIPES MAY BE USED AT NO ADDITIONAL COST TO OWNER.
21. BACKFLOW PREVENTER AS REQUIRED PER INDUSTRY STANDARDS AND APPLICABLE CODES.
22. THE IRRIGATION SYSTEM SHALL BE PROPERLY MAINTAINED AND CONTRACTOR TO PROGRAM AUTOMATIC CONTROLLER CONSISTENT WITH WATER SCHEDULES ESTABLISHED BY THE PREVAILING WATER MANAGEMENT DISTRICT, OR THE MUNICIPALITY, WHICHEVER IS MORE RESTRICTIVE.
23. VERIFY INSTALLATION AND PARTS WARRANTY PRIOR TO CONTRACT EXECUTION.
24. THESE PLANS DO NOT EXPRESS OR IMPLY IN ANY WAY ANY TYPE OF TRADE WARRANTY OR MATERIAL GUARANTEE FROM THE MANUFACTURER AND NEITHER OFFERS ANY TYPE OF INSTALLATION WARRANTY NOR GUARANTEE OF ANY TYPE FOR THE FINISHED WORK. STARTING FROM THE DAY THE CONTRACTOR SIGNS CONTRACT CONTINUING IN PERPETUITY THE LANDSCAPE ARCHITECT HAVING NEITHER AFFILIATION WITH NOR CONTROL OVER EITHER THE CONTRACTOR OR HIS STAFF WILL BE HELD HARMLESS FOR ACTIONS OF THE CONTRACTOR AND HIS STAFF THAT MAY DAMAGE PROPERTY OR CAUSE PERSONAL BODILY INJURY. BY ACCEPTING THIS CONTRACT THE CONTRACTOR ACKNOWLEDGES HIS LIABILITY TO PAY THE FULL AMOUNT OF ANY AND ALL DAMAGE CLAIMS FILED AGAINST THE OWNERS PROPERTY. PROPERTY ADJACENT TO THE OWNER'S PROPERTY OR FOR ANY AND ALL PERSONAL INJURIES THAT RESULT DURING OR FROM THE INSTALLATION OF OR SUBSEQUENT OPERATION OF THIS SPRINKLER SYSTEM. CONTRACTOR SHALL INDEMNIFY THE LANDSCAPE ARCHITECT AND PAY ALL LEGAL FEES, FINES, COURT SETTLEMENTS, ANY AND ALL OTHER COSTS MENTIONED OR NOT MENTIONED HEREIN THAT MAY HAVE RESULTED FROM PROPERTY DAMAGE, PERSONAL BODILY INJURY OR ANY OTHER DAMAGE OR INJURY CAUSED DURING THE INSTALLATION OR OPERATION OF THIS SPRINKLER SYSTEM.
25. THE PURPOSE OF THIS IRRIGATION PLAN IS TO PROVIDE A PHYSICAL LAYOUT OF IRRIGATION EQUIPMENT TO ASSIST THE CONTRACTOR IN ACCURATELY ESTIMATING THE MATERIAL COST TO BID THE SPRINKLER SYSTEM. THE DESIGN INTENT IS TO PROVIDE THE CONTRACTOR WITH A DIAGRAMMATIC LAYOUT OF SPRINKLER EQUIPMENT, WHICH WILL PROVIDE ADEQUATE WATER COVERAGE FOR THE LANDSCAPE MATERIALS WITHIN THE SCOPE OF WORK UNDER THIS CONTRACT. THESE PLANS AND THE MATERIALS SPECIFIED ARE SUBJECT TO CHANGE WITHOUT NOTICE. PRIOR TO BIDDING THIS CONTRACT THE CONTRACTOR WILL VERIFY ALL IRRIGATION MATERIAL MODEL NUMBERS, DIMENSIONS, COMPATIBILITY OF COMPONENT ASSEMBLIES, MAINLINE AND ZONE HYDRAULICS, ELECTRICAL COMPONENTS, WIRING, ALL SLEEVES, WATER AND ELECTRICAL SOURCES, WATER PRESSURE AND G.P.M. AVAILABLE AND APPLICABLE SITE CONDITIONS, WHICH MAY ADVERSELY AFFECT EITHER THE COST OR PERFORMANCE OF THIS SPRINKLER SYSTEM. IF A CONFLICT IS FOUND THE CONTRACTOR WILL NOTIFY THE OWNER'S REPRESENTATIVE IN WRITING AND WILL NOT START THE WORK UNTIL THE OWNER HAS RESOLVED THE CONFLICT AND ISSUED IN WRITING A "NOTICE TO PROCEED". IF A CONFLICT IS FOUND AFTER THE CONTRACT HAS BEEN SIGNED THE CONTRACTOR WILL RESOLVE THE CONFLICT AT HIS OWN EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER. SLEEVING UNDER SIDEWALKS MAY NOT BE SHOWN OR CALLED OUT DUE TO LACK OF SPACE ON PLANS. ONCE A BID HAS BEEN GIVEN TO THE OWNER FROM THE CONTRACTOR CHANGE ORDERS FOR EITHER ADDITIONAL MATERIALS OR TO CHANGE TO MATERIALS THAT ARE NOT FOUND ON THIS PLAN IS NOT ACCEPTABLE AND WILL NOT BE ALLOWED.
26. GUARANTEE: LANDSCAPE CONTRACTOR SHALL WARRANTY LAWNS AFTER INSTALLATION FOR 45 DAYS FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. WARRANTY TREES AND SHRUBS FOR ONE YEAR FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. MAINTAIN MATERIALS AFTER INSTALLATION FOR 45 DAYS FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE. REPLACE ALL UNHEALTHY OR DEAD PLANT MATERIAL FOUND DURING WARRANTY PERIOD. WARRANTY IRRIGATION SYSTEM MATERIALS AND LABOR FOR ONE YEAR FOLLOWING ACCEPTANCE OF SITE BY OWNER'S REPRESENTATIVE.
27. TEMPORARY IRRIGATION FOR LANDSCAPE MATERIAL WITHOUT IRRIGATION: CONTRACTOR SHALL COORDINATE AND PROVIDE PROVISIONS FOR TEMPORARY IRRIGATION. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING ALL EXISTING AND PROPOSED PLANT MATERIAL TO SUPPLEMENT RAINFALL AS REQUIRED DURING CONSTRUCTION AND 90 DAY PLANT ESTABLISHMENT PERIOD (90 DAYS AFTER FINAL ACCEPTANCE). LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR HAND WATERING IN ALL PLANTING AREAS UNTIL PLANT MATERIAL IS FULLY ESTABLISHED. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL LOST FROM INADEQUATE WATERING DURING 90 DAY ESTABLISHMENT PERIOD.

28. PER HERNANDO COUNTY LAND DEVELOPMENT CODE:

28.1. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE DESIGNED TO AVOID RUNOFF, LOW-HEAD DRAINAGE, OVER SPRAY, OR COMPARABLE CONDITIONS WHERE WATER FLOWS ONTO/OVER ADJACENT PROPERTY, NON-IRRIGATED AREAS, IMPERVIOUS STRUCTURES, SIDEWALKS, OR ROADWAYS.

28.2. IRRIGATION CONTROL EQUIPMENT SHALL INCLUDE AN AUTOMATIC IRRIGATION CONTROLLER THAT HAS ADEQUATE PROGRAMMING FLEXIBILITY TO RESPOND TO THE SPECIFICATIONS OF IRRIGATION DEVICES BEING USED. THIS INCLUDES FEATURES SUCH AS REPEAT CYCLES AND MULTIPLE-PROGRAM CAPABILITIES.

28.3. SPRINKLER SPACING SHALL NOT EXCEED FIFTY-FIVE (55) PERCENT OF THE SPRINKLER DIAMETER COVERAGE.

28.4. NOZZLE SIZES SHALL MATCH THE WATER APPLICATION RATE OF THE ZONE.

28.5. SPRAYS, ROTORS, AND LOW-VOLUME EMITTERS SHALL HAVE CONSISTENT APPLICATION RATES WITHIN EACH CONTROL-VALVE CIRCUIT. DRIP, MICRO-SPRAY, OR OTHER LOW-VOLUME EMITTERS ARE REQUIRED IN NON-TURF GRASS AREAS THAT ARE OUTSIDE OF THE HIGH WATER USE ZONE.

28.6. AN OPERATIONAL SOIL MOISTURE SENSOR OR A RAIN SENSOR SHUT OFF DEVICE, THAT WILL OVERRIDE THE IRRIGATION CYCLE OF THE SPRINKLER SYSTEM WHEN ADEQUATE RAINFALL HAS OCCURRED, SHALL BE INSTALLED AND MUST BE MAINTAINED AND OPERATED ON ALL IRRIGATION SYSTEMS.

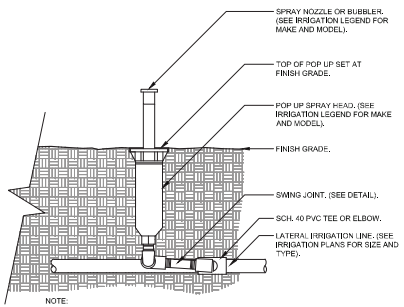
28.7. ALL WATERING RESTRICTIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND HERNANDO COUNTY SHALL BE OBEYED.

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	PSI	PSI @ POC	PRECIP
1	Rain Bird PEB	1-1/2"	Turf Spray	35.74	35.19	54.05	1.27 in/h
2	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	19.53	43.21	56.76	0.96 in/h
3	Rain Bird PEB	1"	Bubbler	8.50	32.10	44.95	1.70 in/h
4	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	16.86	39.43	52.66	0.96 in/h
5	Rain Bird XCZ-100-PRB-COM	1"	Area for Dripline	18.93	41.85	55.82	0.96 in/h
6	Rain Bird PEB	1-1/2"	Turf Spray	27.03	35.38	51.80	1.14 in/h

CRITICAL ANALYSIS

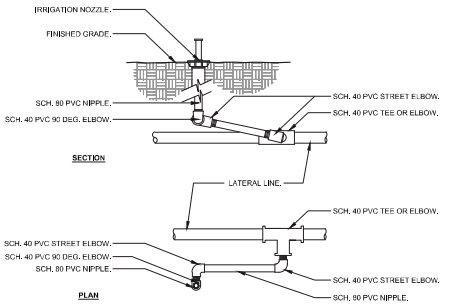
Generated:	2020-10-09 15:28
P.O.C. NUMBER: 01	
Water Source Information:	Irrigation system is designed based on assumed water pressure of 60 PSI prior to point of connection. Verify actual pressure and flow rate.
FLOW AVAILABLE	
Water Meter Size:	1"
Flow Available:	37.50 gpm
PRESSURE AVAILABLE	
Static Pressure at POC:	60.00 psi
Elevation Change:	5.00 ft
Service Line Size:	2"
Length of Service Line:	20.00 ft
Pressure Available:	58.00 psi
DESIGN ANALYSIS	
Maximum Station Flow:	35.74 gpm
Flow Available at POC:	37.50 gpm
Residual Flow Available:	1.76 gpm
Critical Station:	2
Design Pressure:	20.00 psi
Friction Loss:	1.46 psi
Fittings Loss:	0.15 psi
Elevation Loss:	0.00 psi
Loss through Valve:	21.61 psi
Pressure Req. at Critical Station:	43.21 psi
Loss for Fittings:	0.02 psi
Loss for Main Line:	0.20 psi
Loss for POC to Valve Elevation:	0.00 psi
Loss for Backflow:	11.22 psi
Loss for Water Meter:	2.11 psi
Critical Station Pressure at POC:	56.76 psi
Pressure Available:	58.00 psi
Residual Pressure Available:	1.24 psi



NOTE:
1- 6" POP UPS SHALL BE USED IN TURF AREAS.
2- CONTRACTOR SHALL SETTLE SOIL AROUND THE POP UP AFTER INSTALLATION.
3- ALL SCH. 40 PVC TO SCH. 80 PVC CONNECTIONS SHALL BE MADE USING TEFLON TAPE.

1 POP-UP SPRAY HEAD

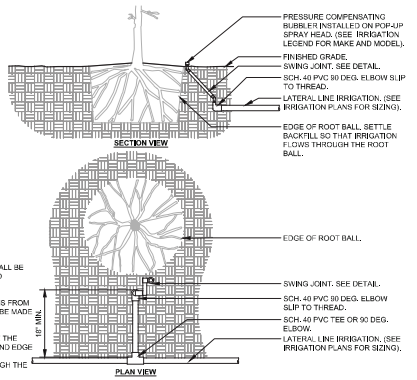
1 1/2" = 1'-0" P-HE1-27



NOTE:
1- ALL THREADED CONNECTIONS FROM SCH. 40 PVC TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
2- RAINBIRD TSJ SERIES OR HUNTER SWING JOINTS OR APPROVED EQUAL SHALL BE USED PER APPROVAL BY THE OWNER'S REPRESENTATIVE.

2 SWING JOINT

3" = 1'-0" P-HE1-26



NOTES:
1- ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
2- ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
3- CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

3 IRRIGATION BUBBLER WITH LAYOUT

3/4" = 1'-0" P-HE1-29

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34606

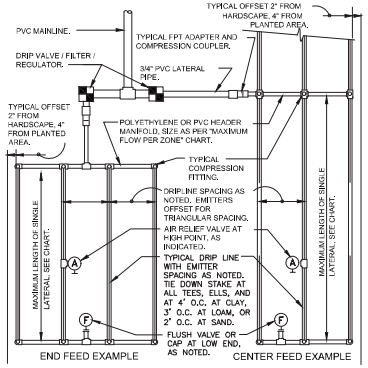
Project Number
1932

Distribution

MILESTONE	DATE
PERMIT SET	06/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 2 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

IRRIGATION NOTES AND DETAILS

IR2



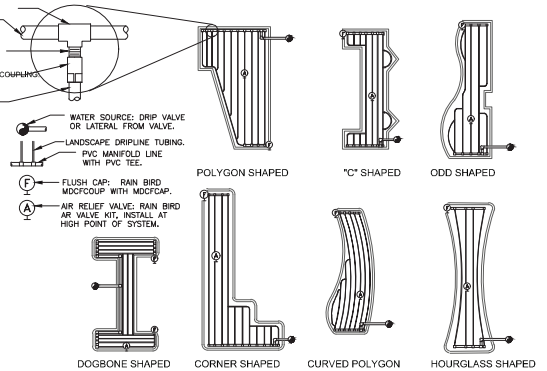
MAXIMUM LATERAL LENGTH (FEET)						
	EMITTER FLOW RATE GPH					
	12" SPACING		18" SPACING		24" SPACING	
PSI	0.6	0.9	0.6	0.9	0.6	0.9
10	125	96	175	135	218	171
20	249	191	350	171	442	340
30	307	236	434	333	550	422
40	350	268	495	380	627	171
50	125	96	175	135	218	171
60	125	96	175	135	218	171

GRID PRECIPITATION RATES (IN/HR)			
		EMITTER FLOW RATE	
EMITTER SPACING	LATERAL SPACING	0.6	0.9
12	12	0.96	1.44
18	18	0.69	1.03
24	24	0.28	0.41

LATERAL FLOW PER 100 FT (GPM)			
EMITTER FLOW	12" SPACING	18" SPACING	24" SPACING
0.6 GPH	1.0 GPM	0.67 GPM	0.50 GPM
0.9 GPH	1.5 GPM	1.0 GPM	0.75 GPM

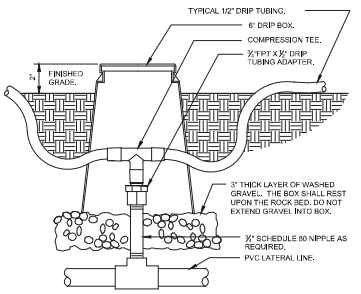
MAXIMUM FLOW PER ZONE		
	MAX GPM	PSI LOSS
SCHEDULE 40 PVC HEADER SIZE		
1/2"	4.7 GPM	7.7 PSI
3/4"	8.3 GPM	5.6 PSI
1"	13.5 GPM	4.2 PSI
1-1/2"	33.9 GPM	2.9 PSI
2"	52.4 GPM	1.9 PSI
POLY PIPE HEADER SIZE		
1/2"	4.7 GPM	6.8 PSI
3/4"	8.3 GPM	6.3 PSI
1"	13.5 GPM	4.8 PSI
1-1/2"	31.8 GPM	2.9 PSI
2"	52.4 GPM	2.2 PSI

SLOPED CONDITION NOTE:
1. DRIPLINE LATERALS SHOULD FOLLOW THE CONTOURS OF THE SLOPE WHENEVER POSSIBLE.
2. INSTALL AIR RELIEF VALVE AT HIGHEST POINT.
3. NORMAL SPACING WITHIN THE TOP ⅓ OF SLOPE.
4. INSTALL DRIPLINE AT 25% GREATER SPACING AT THE BOTTOM ⅓ OF THE SLOPE.
5. WHEN ELEVATION CHANGE IS 10 FT OR MORE, ZONE THE BOTTOM ⅓ ON A SEPARATE VALVE.



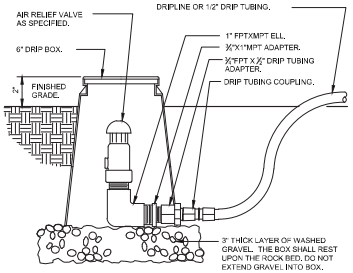
1 TYPICAL RAIN BIRD DRIPLINE REQUIREMENTS

N.T.S. P-HE1-15



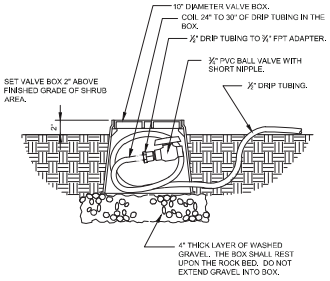
2 ZONE CONTROL

3" = 1'-0" P-HE1-13



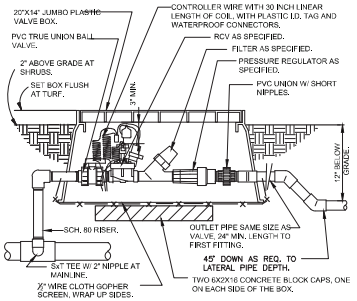
3 DRIP AIR RELIEF VALVE IN BOX

3" = 1'-0" P-HE1-11



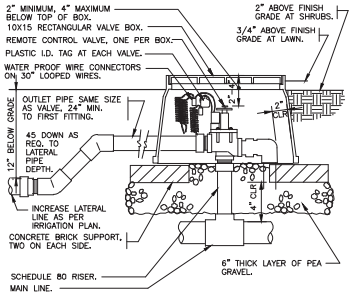
4 DRIP FLUSH VALVE

1 1/2" = 1'-0" P-HE1-19



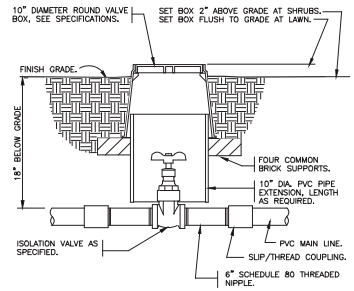
5 1" DRIP VALVE/FILTER/REGULATOR

1 1/2" = 1'-0" P-HE1-23



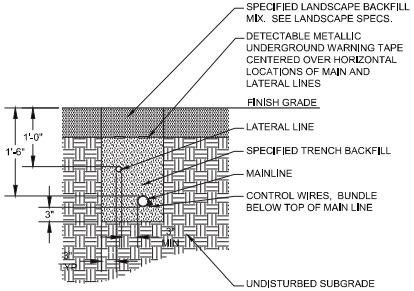
6 ELECTRIC REMOTE CONTROL VALVE

1 1/2" = 1'-0" P-HE1-20



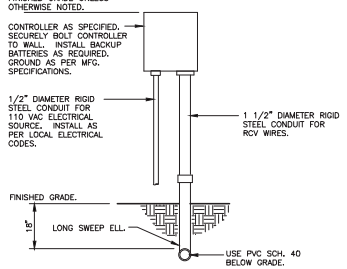
7 BRASS ISOLATION VALVE

1 1/2" = 1'-0" P-HE1-22



8 TYPICAL TRENCHING

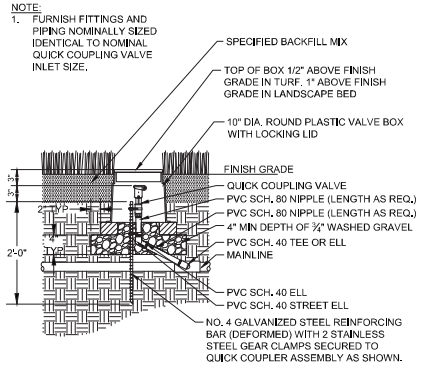
N.T.S. P-HE1-05



9 WALL MOUNT CONTROLLER

1" = 1'-0" P-HE1-24

NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.



10 QUICK COUPLER

N.T.S. P-HE1-03

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34606

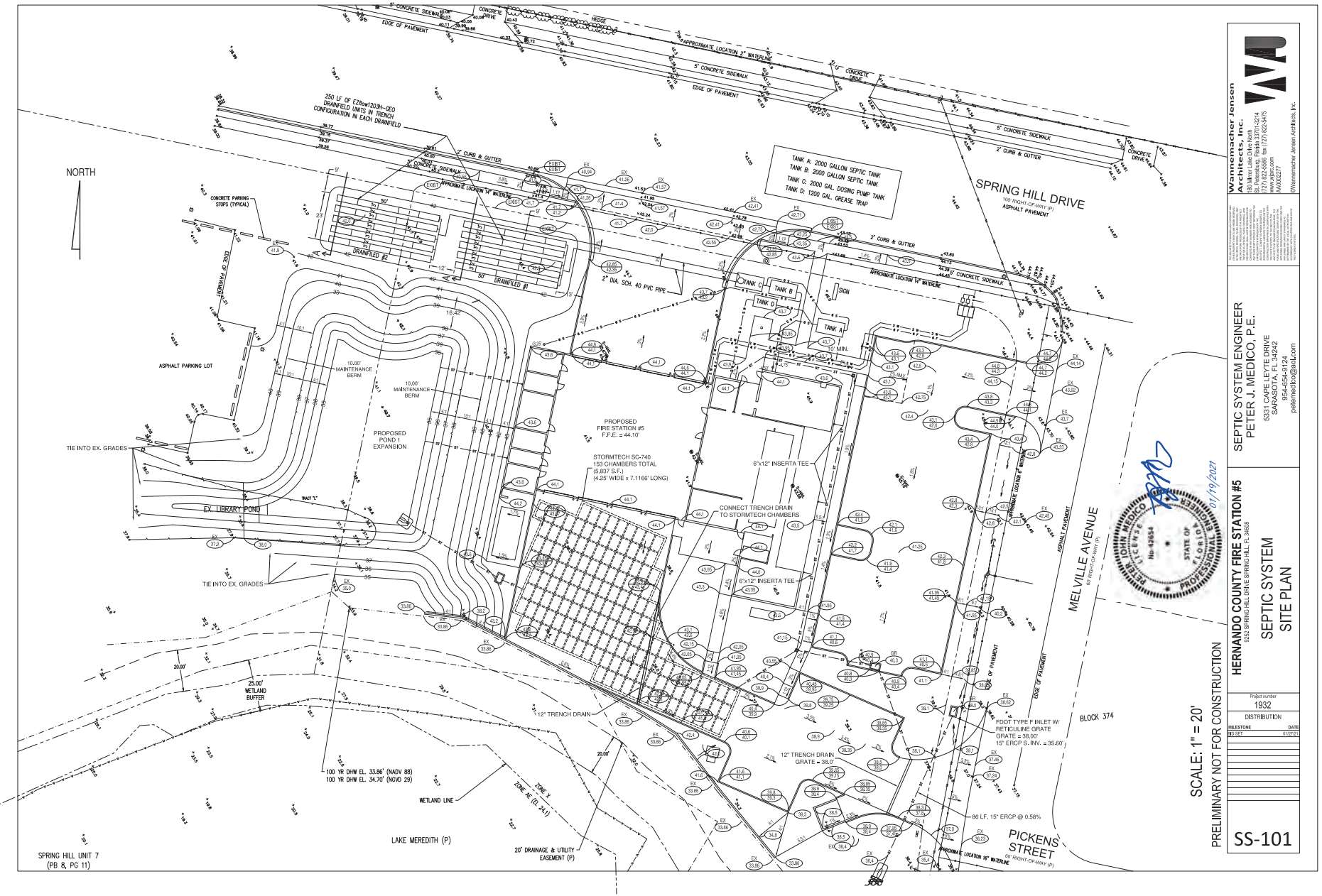
Project Number
1932

Distribution

MILESTONE	DATE
PERMIT SET	06/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 2 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

IRRIGATION DETAILS

IR3



PRELIMINARY NOT FOR CONSTRUCTION

HERNANDO COUNTY FIRE STATION #5
9252 SPRING HILL DRIVE SPRING HILL, FL 34608

SEPTIC SYSTEM
SITE PLAN

SS-101

Project number 1932

DISTRIBUTION

MILESTONE	DATE
BID SET	01/27/21

SEPTIC SYSTEM ENGINEER
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954-654-9124
petemedico@aol.com

STATE OF FLORIDA — PETER JOHN MEDICO — LICENSE No. 47654 — PROFESSIONAL ENGINEER
01/19/2021

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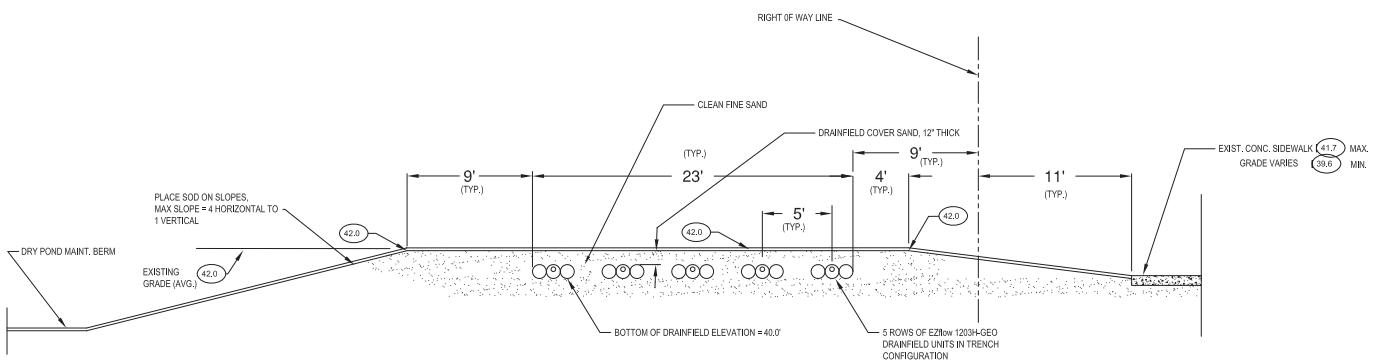


TYPICAL DRAINFIELD CROSS-SECTION A

NOT TO SCALE

PETER JOHN MEDICO LICENSE No 42654 STATE OF FLORIDA PROFESSIONAL ENGINEER

01/19/2021

SEPTIC SYSTEM SIZING CALCULATIONS:

DRAINFILEDS: TABLE I OF CHAPTER 64E-4 F.A.C.

.

FACILITY IS A PUBLIC INSTITUTION WITH 12 PERSONS IN 24 HOURS X 100 GALLONS = 1200 GPD.
ADD PER MEAL – 5 GALLONS/DAY — 12 PERSONS X 3 MEALS PER PERSON X 5 GAL/PERSON/MEAL = 180 GPD
TOTAL FLOW = 1200 + 180 = 1380 GPD
SPLIT SEPTIC TANK INTO TWO TANKS (TANK A + TANK B) EACH 2000 GALLONS
USE 2000 GALLON DOSING TANK WITH DUPLEX SYSTEM, PUMPING ALTERNATELY TO EACH OF 2 DRAINFIELDS
EACH DRAINFIELD SHALL BE A MINIMUM OF 1000 SQUARE FEET
$\frac{1380}{2}$ = 690 GALLONS PER DAY/ O.8 GALLONS/SQUARE FEET/DAY = 862.5 SF REQUIRED, 1000 SF PROVIDED.
THE MINIMUM UNOBSTRUCTED AREA PER DRAINFIELD = 862.5 X 1.5 = 1293.75 SQUARE FEET

.

NOTE THAT EACH DRAINFIELD PROPOSED IS 50' LONG X 5 TRENCHES = 250 LF, 250 X 4 SF/LF = 1000 SF
AND EACH DRAINFIELD HAS AN UNOBSTRUCTED AREA 31' WIDE X 50' LONG = 1550 SQUARE FEET
THE WIDTH OF THE UNOBSTRUCTED AREA IS ARRIVED AT BY ADDING 4' TO EACH SIDE OF THE DRAINFIELD
WIDTH OF 23' THUS 23+4+4 = 31'

.

SEPTIC TANK(S): TABLE II OF CHAPTER 64E-4 F.A.C

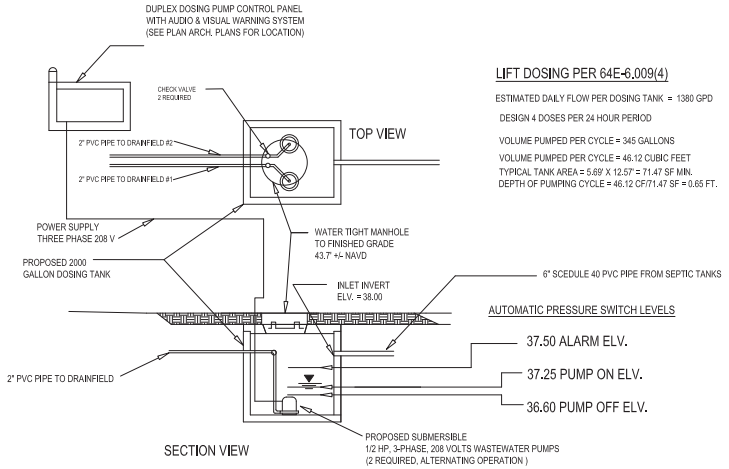
.

THE TOTAL FLOW IS 1380 GALLONS PER DAY. THE MINIMUM SEPTIC TANK SIZE IS 2700 GALLONS.
TWO TANKS ARE PROVIDED IN PARALLEL . EACH TANK IS 2000 GALLONS. EACH TANK RECEIVES APPROXIMATELY
50% OF THE FLOW = 690 GALLONS PER DAY. DESIGNING FOR 750 GALLONS PER DAY REQUIRES A TANK SIZE
OF 1650 GALLONS. TWO EACH 2000 GALLON TANKS ARE PROVIDED WHICH ARE MORE THAN ADEQUATE.

.

DOSING TANK(S): TABLE II OF CHAPTER 64E-4 F.A.C

THERE IS ONE PROPOSED DOSING TANKS WITH A DUPLEX DOSING PUMP SYSTEM. THE TOTAL FLOW
IS 1380 GPD WHICH REQUIRED A DOING TANK OF 1900 GALLONS. A 2000 GALLON DOSING TANK IS PROVIDED.



LIFT DOSING PER 64E-6.009(4)

ESTIMATED DAILY FLOW PER DOSING TANK = 1380 GPD

DESIGN 4 DOSES PER 24 HOUR PERIOD

VOLUME PUMPED PER CYCLE = 345 GALLONS

VOLUME PUMPED PER CYCLE = 46.12 CUBIC FEET
TYPICAL TANK AREA = 5.69' X 12.57' = 71.47 SF MIN.
DEPTH OF PUMPING CYCLE = 46.12 CF/71.47 SF = 0.65 FT.

DOSING TANK & DUPLEX
DOSING SYSTEM SCHEMATIC

NOT TO SCALE

1 cubic foot = 7.4805194 US gallons

ALL ELEVATIONS SHOWN ARE IN FEET NAVD 88

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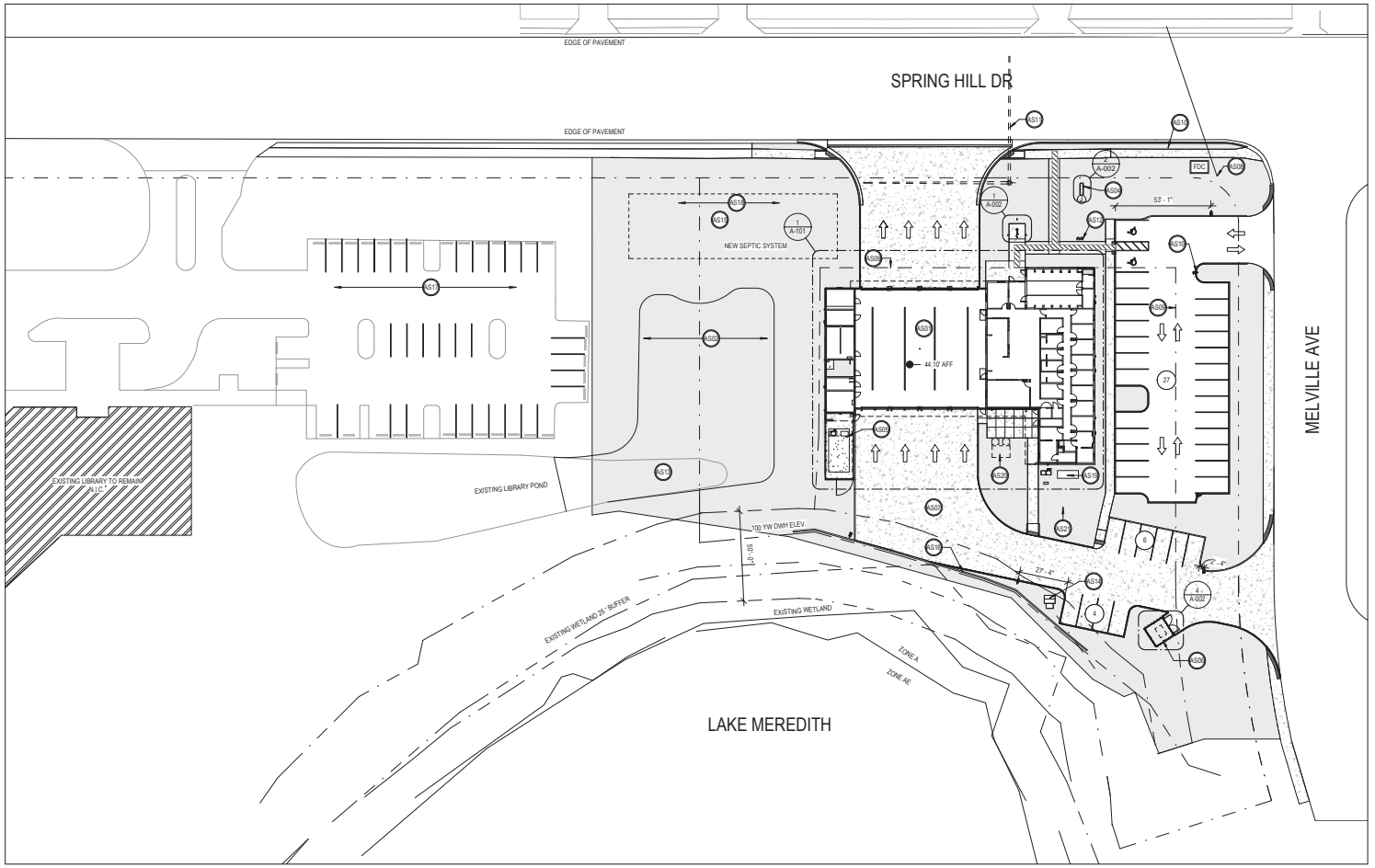
Project for:
Hernando Co.
Fire Station #5
9252 Spring Hill Rd.
Spring Hill, FL 34608

Mark	Date (M-D-Y)	Description
1	01-27-2021	BID SET

Project Number: 1932
Plan Series:
Property Number:

Sheet Title:
SEPTIC SYSTEM DETAILS AND CALCULATIONS

Sheet:
SS102



1 ARCHITECTURAL SITE PLAN
1" = 30'-0"

GENERAL NOTES

1. BOUNDS OF SCOPE OF WORK ARE TO THE EXTENT REQUIRED TO COMPLETE WORK.
2. REFER TO CIVIL AND MEP FOR UTILITIES AND ACCESS POINTS.
3. REFER TO SEPTIC SYSTEM DRAWINGS FOR MORE INFORMATION
4. REFER TO LANDSCAPE FOR MORE INFORMATION

ZONING LEGEND

*ZONING DISTRICT: PDP (RECREATIONAL) PARK SITE: LIBRARY AND FIRE STATION
*ZONING SPECIAL USE: YES
*FUTURE LAND USE MAP: RESIDENTIAL

FEMA FLOOD ZONE: FLOOD ZONE X (BASED ON SURVEY)
BASE FLOOD ELEVATION (BFE): NA FOR ZONE X

GROSS LOT AREA: 331,056 S.F. (7.6 ACRES)
BUILDING FOOTPRINT: 11,602 G.S.F.
MAX. BUILDING COVERAGE: PDP W/ RESIDENTIAL COMPONENT NOT TO EXCEED MORE THAN 45% OF ACREAGE
NEW BUILDING COVERAGE : 3.6%

**BUILDING HEIGHT: 45' ALLOWED, 21' - 6" PROPOSED

***BUILDING SETBACKS:
FRONT YARD (NORTH) 50' ALLOWED /50' PROPOSED
SIDE YARD (EAST) 25' ALLOWED /80' PROPOSED
REAR YARD (SOUTH) 25' REQUIRED, VARIES, 50' PROPOSED
(SETBACKS WERE APPROVED BY BCC ON AUGUST 11TH, 2020)

SITE PLAN LEGEND

X'-X" AFF FINISH FLOOR LEVEL AT BUILDING ENTRY POINT

AREA N.I.C.

GREENSPACE

ACCESSIBLE ROUTE

PROPERTY LINE

SETBACK

FENCE

FDC FIRE DEPARTMENT CONNECTION

XX NUMBER OF PARKING SPACES

PARKING COUNT:

USE	STANDARD OF MEASUREMENT	TOTAL REQUIRED	TOTAL PROVIDED	BICYCLE 5% REQUIRED	TOTAL BICYCLE PROVIDED
BOARDING HOUSE	1 PER UNIT	12	37	2	2
STORAGE	1 PER EMPLOYEE PEAK SHIFT	14			
		26			

SPECIFIC KEYNOTES - SITE PLAN	
NUMBER	TEXT
AS01	FIRE STATION BUILDING
AS02	DEMO EXISTING PARKING STOPS, REFER TO CIVIL FOR STORMWATER POND EXPANSION
AS04	MONUMENT SIGN, EXTERIOR DIGITAL BOARD DISPLAY. REFER TO ELECTRICAL
AS05	GENERATOR YARD
AS06	TRASH ENCLOSURE
AS07	STORMTECH SYSTEM. REFER TO CIVIL
AS08	EXISTING OVERHEAD LINE
AS09	BUILDING SETBACK
AS10	NEW LIGHT POLE FIXTURE. REFER TO ELECTRICAL
AS11	TRAFFIC SIGNAL LOCATION, REFER TO TRAFFIC SIGNALIZATION
AS12	12@13 (2) POWDER COATED BICYCLE STALLS
AS13	EXISTING LIBRARY POND EXPANDED. REFER TO CIVIL FOR NEW POND EXTENT.
AS14	TRANSFORMER. REFER TO ELECTRICAL
AS15	NEW SEPTIC TANK SYSTEM. REFER TO SEPTIC TANK DRAWINGS
AS16	NEW RETAINING WALL. REFER TO CIVIL
AS17	EXISTING LIBRARY ASPHALT PARKING LOT. N.I.C.
AS18	DEMO EXISTING PARKING STOPS. PREPARE AREA TO RECEIVE NEW SEPTIC SYSTEM. REFER TO SEPTIC SYSTEM DRAWINGS.
AS19	MECHANICAL EQUIPMENT. REFER TO MECHANICAL
AS20	GREASE AND OIL INTERCEPTOR. REFER TO PLUMBING AND CIVIL
AS21	UNDERGROUND PROPANE GAS TANK. REFER TO PLUMBING AND CIVIL

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

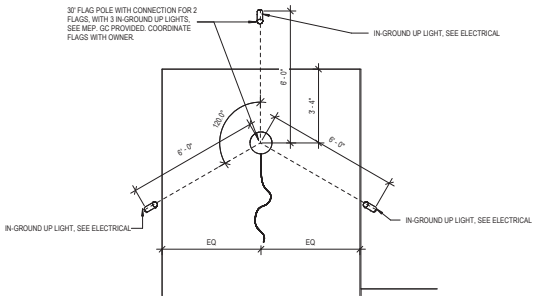
Project number
1932

DISTRIBUTION

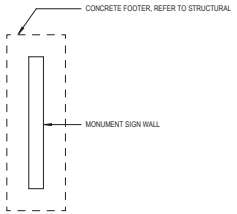
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
REV 2 COUNTY COMMENTS	01/15/21
BID SET	01/27/21

SITE PLAN

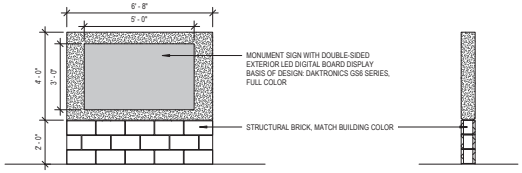
A-001



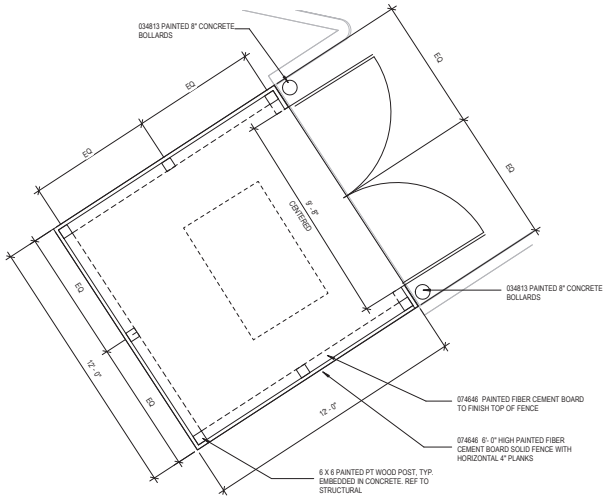
1 FLAG POLE - ENLARGED PLAN
3/8" = 1'-0"



2 MONUMENT SIGN - PLAN
3/8" = 1'-0"



3 MONUMENT SIGN - ELEVATION
3/8" = 1'-0"



4 ENLARGED PLAN - TRASH ENCLOSURE
3/8" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

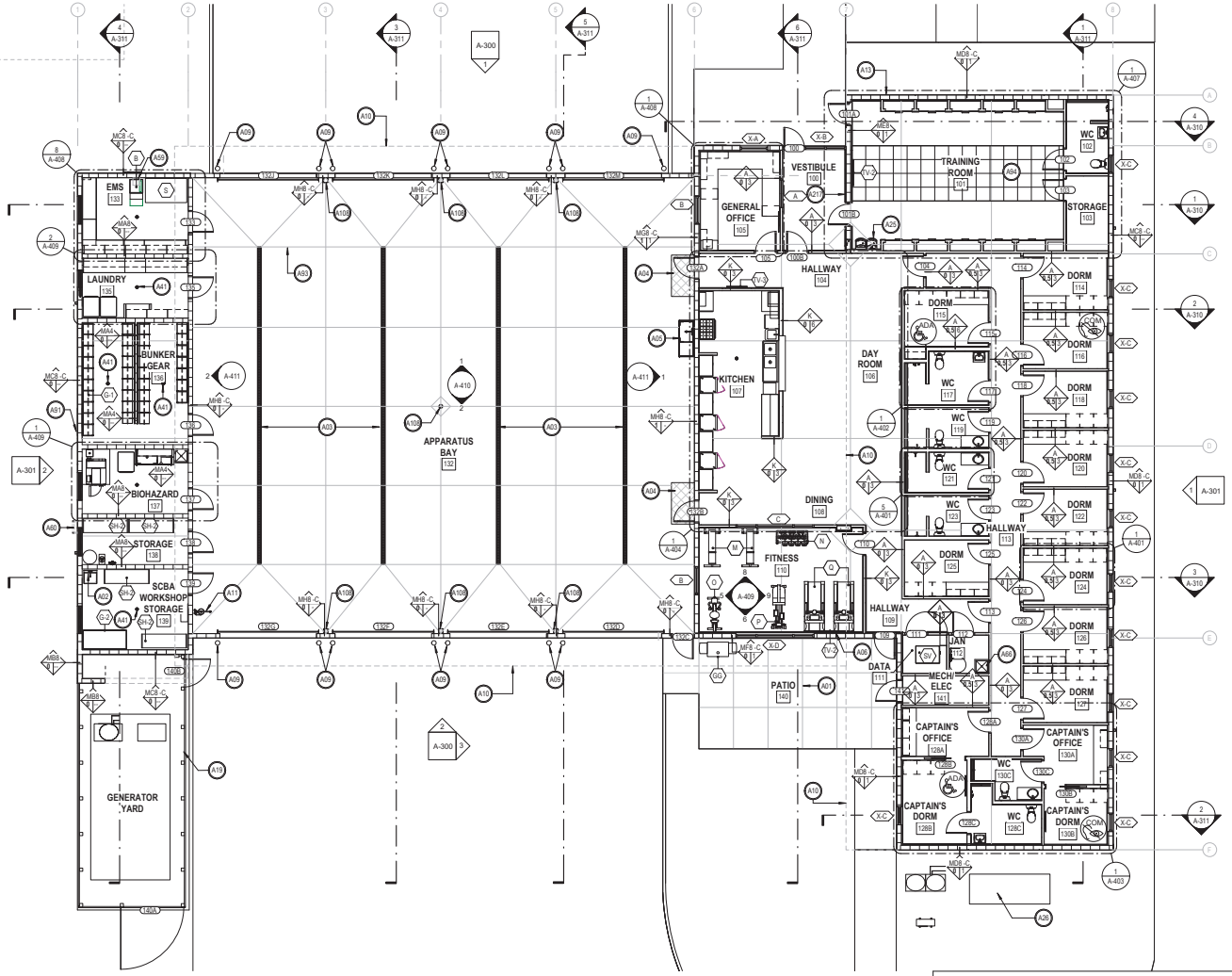
Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

SITE PLAN - ENLARGED DETAILS

A-002



1 LEVEL 1 - FLOOR PLAN
1/8" = 1'-0"

OVERALL GROUND FLOOR (LEVEL 1) AREA BREAKDOWN: 11,602 SQFT

SHOPS AND STORAGE:	1,132 SQFT
APPARATUS BAY:	4,943 SQFT
LIVING AREAS:	5,527 SQFT

GENERATOR YARD AND PATIO NOT INCLUDED IN OVERALL AREA

SPECIFIC KEYNOTES - PLANS

NUMBER	TEXT
A01	CONCRETE WALK OR PATIO. CONTROL JOINTS @ 5'-0" O.C. UNLESS OTHERWISE INDICATED. 2% SLOPE AWAY FROM BLDG. SEE CIVIL NOTE JOINT ALIGNMENTS GRAPHICALLY DEPICTED ON PLAN
A02	224216 UTILITY SINK, REFER TO PLUMBING
A03	221319 TRENCH DRAIN, SLOPED FLOOR 1% TO DRAIN. REFER TO PLUMBING
A04	124843 RECESSED ENTRY FLOOR MAT. SEE FINISH LEGEND ON SHEET ID-101
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A09	034813 PAINTED 8" CONCRETE BOLLARDS
A10	ROOF OVERHANG ABOVE
A11	224516 EYEWASH EQUIPMENT, REFER TO PLUMBING
A13	101419 PROVIDE 4'-0" HIGH BACKLIT POWDER COATED ALUMINUM "S"
A19	074646 8'- 0" HIGH PAINTED FIBER CEMENT BOARD SOLID FENCE WITH HORIZONTAL 4" PLANKS
A25	224713 BI-LEVEL WATER FOUNTAIN. REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A59	224216 FLOOR SINK. REFER TO PLUMBING
A60	056113 PERMANENT METAL ACCESS LADDER. DELEGATED DESIGNED AND ENGINEERED BY OTHERS
A66	224216 MOP SINK. REFER TO PLUMBING
A88	265119 (2) 4' LED STRIP UPLIGHTS MOUNTED ON CEILING CAP
A91	089119 48"x 12" LOUVER. REFER TO MECHANICAL
A93	CONCRETE SLAB ON GRADE, CONTROL JOINT, TYP. REFER TO EDGE OF SLAB PLAN.
A94	096953 ADD ALTERNATE: 24"x24"RAISED ACCESS POLISHED TECCRETE FLOOR PANEL SYSTEM. COORDINATE WITH STRUCTURAL AND ELECTRICAL. REFER TO EDGE OF SLAB PLAN.
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A217	911 MEMORIAL MOSAIC DISPLAY, COORDINATE WITH ARCHITECT AND OWNER

GENERAL NOTES

1. PROVIDE SUPPORT FOR WALL MOUNTED CABINETS AND PLUMBING FIXTURES. STEEL STUDS SUPPORTING WALL MOUNTED FIXTURES TO BE DOUBLED AT 16 O.C. OR NOT LESS THAN 20 GAUGE PER FBC 2517.5.1.1.
2. COMBUSTIBLE MATERIALS IN TYPES I & II CONSTRUCTION TO COMPLY WITH FBC 603.1 (FIRE RETARDANT - TREATED WOOD) AND 805.1 & 806.1
3. PROVIDE CEMENTITIOUS BACKER BOARD IN PLACE OF GWB AT ALL LOCATIONS SHOWING CERAMIC OR PORCELAIN TILE FINISH
4. PER LSC101 CH 8.3.2.4 EACH NEW FIRE WALL, FIRE BARRIER, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENING SHALL BE PERMANENTLY IDENTIFIED WITH STENCILING ABOVE FINISHED CEILING AND IN CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS STENCIL SHALL BE 4" HIGH AND 1/2" STROKE AND NOT BE MORE THAN 15' ON CENTER", THE FOLLOWING PARTITIONS XM8 APPLY TO THIS NOTE.
5. PROVIDE ANODIZED ALUMINUM LOUVERS WITH PRODUCT APPROVAL FOR ALL THROUGH WALL VENTS AND THROUGH WALL EXHAUSTS, COORDINATE WITH MECHANICAL DRAWINGS.
6. SEE SHEET A-800 SERIES FOR PARTITION TYPE DETAILS.
7. SEE SHEET A-810 FOR DOOR SCHEDULE.
8. ROOF HEIGHT CALLOUTS ARE MEASURED FROM TOP OF SLAB ON GRADE TO BOTTOM OF METAL DECK.

TAG LEGEND

ELEMENT TAGS

Room name 101 — ROOM TAG
101A — DOOR TAG
fs — WINDOW TAG
ST-X — STOREFRONT TAG
X.6 / B — WALL TAG
XX — SPECIALTY EQUIPMENT TAG
fit — FLOOR TAG

VIEW TAGS

Ref / 1 / A101 / 1 / Ref / 1 Ref — EXTERIOR ELEVATION
Ref / A101 / Ref / 1 Ref — INTERIOR ELEVATION
A101 — SIM — SECTION MARK
1 / A101 — SIM — VIEW CALLOUT
Name / Elevation — LEVEL HEAD
1'-0" A.F.F. SPOT ELEVATION MARK

ANNOTATION TAGS

ALIGNMENT TAG — ALIGN
CSI KEYNOTE TAG — XX.XX
SPECIFIC NOTE TAG — XXX
UNITS DESIGNATED WITH MOBILITY FEATURES
UNITS DESIGNATED WITH COMMUNICATION FEATURES

EQUIPMENT SCHEDULE

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
A	GAS RANGE	GE	JGSS66SELSS	GC	GC
B	ICE MAKER AND BIN	SCOTSMAN	B222S	GC	GC
B36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2436	GC	GC
B48	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2448	GC	GC
B72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2472	GC	GC
B-2	ICE MAKER W/ BIN	MANITOWOC	UDE0065A	GC	GC
C-36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3036	GC	GC
C-72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3072	GC	GC
DR-1	DRYER	GE	GFD85GSSN/GSPN	GC	GC
DW	FREESTANDING DISHWASHER	GE	GPT225SSLSS	GC	GC
E	PRINTER	BY OWNER		OWNER	GC
F	STAINLESS STEEL MOP AND BROOM HOLDER	BOBRICK	B-223	GC	GC
G-1	READY RACK UNIT	READY RACK		GC	GC
G-2	3 COMPARTMENT - (36) CYLINDER BOTTLE STORAGE	READY RACK	SOS2432-C	GC	GC
GG	GAS GRILL	OWNER	Gas Grill	OWNER	GC
ICE	ICE CUBE MAKER	SCOTSMAN	C0322SA_32B	GC	GC
LAD	ROOF LADDER	O'Keeffe's, Inc.	503	GC	GC
M	ADJUSTABLE BENCH	BY OWNER	BY OWNER	OWNER	GC
MW	MICROWAVE	GE	PES7227SLSS	GC	GC
N	DUMBBELLS RACK	BY OWNER	BY OWNER	OWNER	GC
O	STATIONARY BIKE	BY OWNER	BY OWNER	OWNER	GC
P	ELLIPTICAL	BY OWNER	BY OWNER	OWNER	GC
Q	TREADMILL	BY OWNER	BY OWNER	OWNER	GC
REF	REF / FREEZER	TRUE FOOD SERVICE EQUIPMENT, INC.	T-23-2-HC	GC	GC
S	SUPPLY CABINET			OWNER	GC
S-48	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
S-72	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
SH	STAINLESS STEEL SHELF	REGENCY	600WS1572	GC	GC
SH2	CABINET WITH OPEN FRONT	EAGLE GROUP	WC024	GC	GC
SH3	CABINET WITH OPEN FRONT	EAGLE GROUP	WC036	GC	GC
SH4	CABINET WITH OPEN FRONT	EAGLE GROUP	WC030	GC	GC
SH36	STAINLESS STEEL SHELF	REGENCY	600WS1536	GC	GC
SH48	STAINLESS STEEL SHELF	REGENCY	600WS1548	GC	GC
SH-1	SOLID STAINLESS STEEL WALL MOUNT SHELVING 60" X 12" X 10"	ULINE	H-7500	GC	GC
SH-2	6' WIRE STAINLESS STEEL SHELVING	BY OWNER	BY OWNER	GC	GC
SH-24	STAINLESS STEEL SHELF	REGENCY	600WS1224HD	GC	GC
SV	SERVER CABINET	REFER TO AV/IT		GC	GC
TC	FREESTANDING STAINLESS STEEL LOCKABLE CABINET 36"W x 24"D x 72"H	SANDUSKY	SA4D362478-XX	GC	GC
TM	6-DIGIT COUNTDOWN TIMER DISPLAY	MICROFRAME	6300	GC	GC
TV-1	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-2	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-3	LCD TV	BY OWNER	50ES6305U	OWNER	GC
WS-1	WASHER	GE	GFW850SSN/SPN	GC	GC
WS-2	WASHER / EXTRACTOR	MILNOR	30015 T6X	GC	GC

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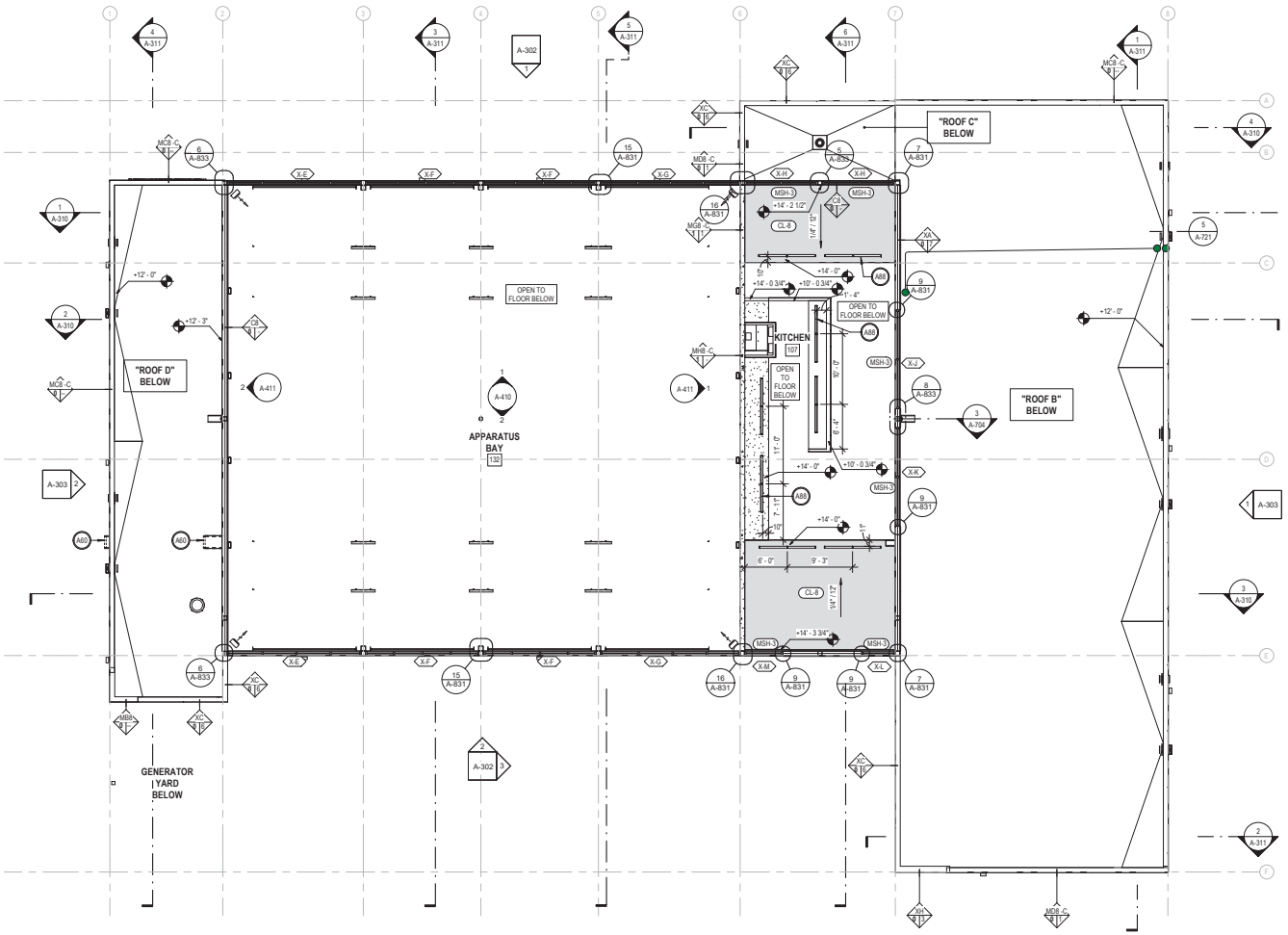
GROUND FLOOR PLAN

A-101



1 HIGH PLAN
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE SUPPORT FOR WALL MOUNTED CABINETS AND PLUMBING FIXTURES. STEEL STUDS SUPPORTING WALL MOUNTED FIXTURES TO BE DOUBLED AT 16 O.C. OR NOT LESS THAN 20 GAUGE PER FBC 2517.5.1.1.
2. COMBUSTIBLE MATERIALS IN TYPES I & II CONSTRUCTION TO COMPLY WITH FBC 603.1 (FIRE RETARDANT - TREATED WOOD) AND 805.1 & 806.1
3. PROVIDE CEMENTITIOUS BACKER BOARD IN PLACE OF GWB AT ALL LOCATIONS SHOWING CERAMIC OR PORCELAIN TILE FINISH
4. PER LSC101 CH 8.3.2.4 EACH NEW FIRE WALL, FIRE BARRIER, OR ANY OTHER NEW WALL REQUIRED TO HAVE PROTECTED OPENING SHALL BE PERMANENTLY IDENTIFIED WITH STENCILING ABOVE FINISHED CEILING AND IN CONCEALED SPACES WITH THE WORDING "FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS STENCIL SHALL BE 4" HIGH AND 1/2" STROKE AND NOT BE MORE THAN 15 'ON CENTER", THE FOLLOWING PARTITIONS XMB APPLY TO THIS NOTE.
5. PROVIDE ANODIZED ALUMINUM LOUVERS WITH PRODUCT APPROVAL FOR ALL THROUGH WALL VENTS AND THROUGH WALL EXHAUSTS, COORDINATE WITH MECHANICAL DRAWINGS.
6. SEE SHEET A-800 SERIES FOR PARTITION TYPE DETAILS.
7. SEE SHEET A-810 FOR DOOR SCHEDULE.
8. ROOF HEIGHT CALLOUTS ARE MEASURED FROM TOP OF SLAB ON GRADE TO BOTTOM OF METAL DECK.

TAG LEGEND

ELEMENT TAGS

Room name 101 — ROOM TAG

000X — DOOR TAG

N — WINDOW TAG

ST-X — STOREFRONT TAG

X 6 / 1 — WALL TAG

XXX — SPECIALTY EQUIPMENT TAG

1t — FLOOR TAG

VIEW TAGS

Ref / 1 / A101 / 1 / Ref / 1 Ref — EXTERIOR ELEVATION

1 Ref / Ref / A101 / Ref / 1 Ref — INTERIOR ELEVATION

1 / A101 SIM — SECTION MARK

1 / A101 SIM — VIEW CALLOUT

ANNOTATION TAGS

Name / Elevation — LEVEL HEAD

1'-0" A.F.F — SPOT ELEVATION MARK

ALIGNMENT TAG — ALIGN

SPECIFIC NOTE TAG — XXX

MSH-3 — DESCRIPTION: MANUAL ROLLER SHADES
MANUFACTURER: MECHO SHADES
STYLE: MOTORIZED THERMOVEIL 1300 SERIES
COLOR: SILVER BIRCH 1319
REMARKS: LOCATION: DAY ROOM.
REFER TO SHEET A-102 FOR LOCATIONS
CONTACT: JONATHAN GOSSEL 407.403.6727
JONATHANGOSSEL@MECHOSYSTEMS.COM

CL-7 — DESCRIPTION: GYPSUM BOARD CEILING
MANUFACTURER: SEE ARCH. SPECIFICATIONS
COLOR: PT-3

CL-8 — DESCRIPTION: EXTERIOR "AERATED" VINYL SOFFIT
MANUFACTURER: ALSIDE
STYLE: CHARTER OAK
COLOR: BLACK
REMARKS: SEE ARCH. SPECIFICATIONS

4' LED STRIP UPLIGHT

SPECIFIC KEYNOTES - PLANS	
NUMBER	TEXT
A01	CONCRETE WALK OR PATIO, CONTROL JOINTS @ 5'-0" O.C. UNLESS OTHERWISE INDICATED. 2% SLOPE AWAY FROM BLDG. SEE CIVIL NOTE JOINT ALIGNMENTS GRAPHICALLY DEPICTED ON PLAN
A02	224216 UTILITY SINK, REFER TO PLUMBING
A03	221319 TRENCH DRAIN, SLOPED FLOOR 1% TO DRAIN. REFER TO PLUMBING
A04	124843 RECESSED ENTRY FLOOR MAT. SEE FINISH LEGEND ON SHEET ID-101
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A09	034813 PAINTED 8" CONCRETE BOLLARDS
A10	ROOF OVERHANG ABOVE
A11	224616 EYEWASH EQUIPMENT, REFER TO PLUMBING
A13	101419 PROVIDE 4'-0" HIGH BACKLIT POWDER COATED ALUMINUM "S"
A19	074646 8'- 0" HIGH PAINTED FIBER CEMENT BOARD SOLID FENCE WITH HORIZONTAL 4" PLANKS
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A59	224216 FLOOR SINK, REFER TO PLUMBING
A60	055113 PERMANENT METAL ACCESS LADDER, DELEGATED DESIGNED AND ENGINEERED BY OTHERS
A66	224216 MOP SINK, REFER TO PLUMBING
A88	265119 (2) 4' LED STRIP UPLIGHTS MOUNTED ON CEILING CAP
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A93	CONCRETE SLAB ON GRADE CONTROL JOINT, TYP. REFER TO EDGE OF SLAB PLAN.
A94	096993 ADD ALTERNATE: 24"x24"RAISED ACCESS POLISHED TECCRETE FLOOR PANEL SYSTEM. COORDINATE WITH STRUCTURAL AND ELECTRICAL. REFER TO EDGE OF SLAB PLAN.
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A217	911 MEMORIAL MOSAIC DISPLAY, COORDINATE WITH ARCHITECT AND OWNER

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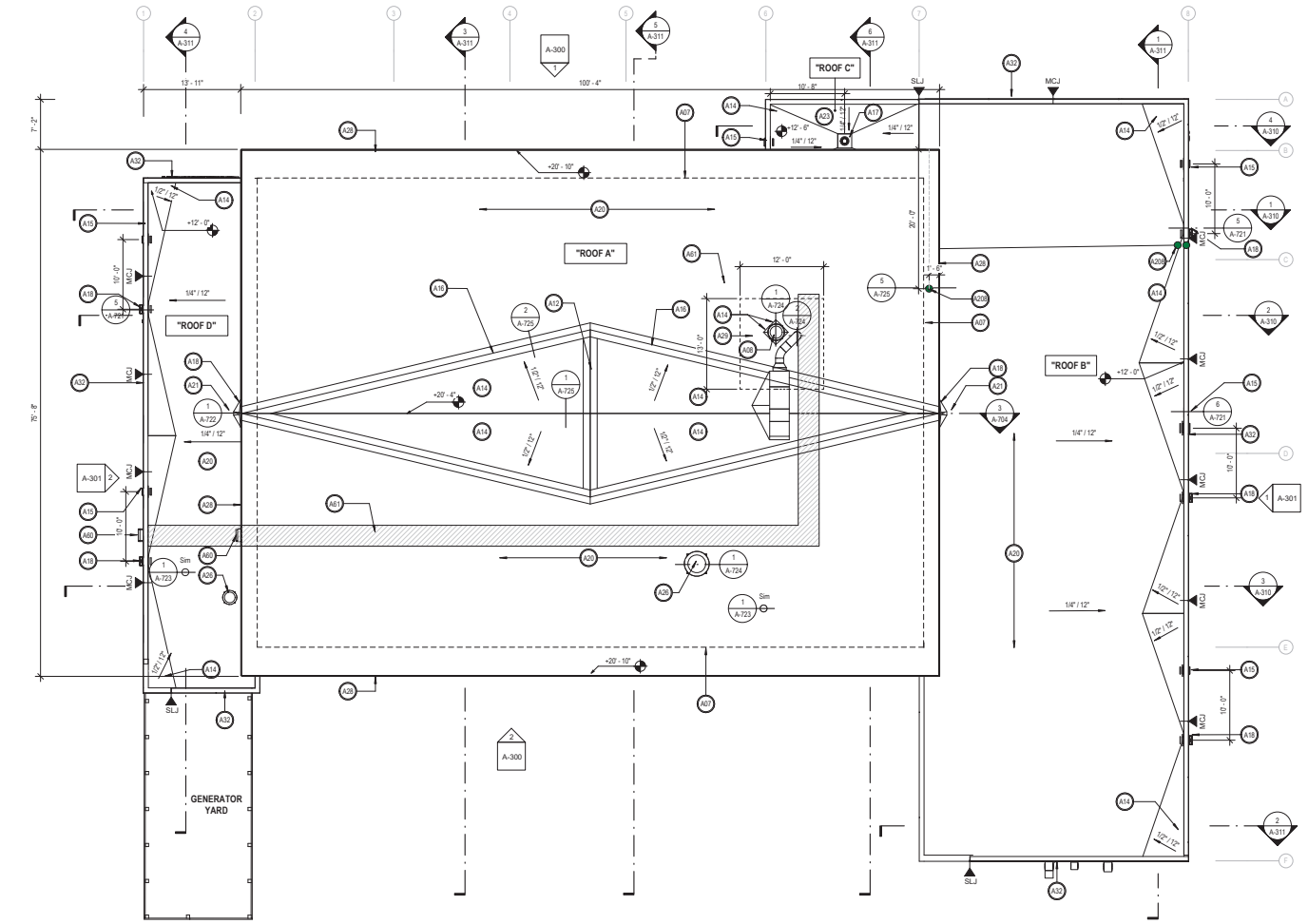
HIGH FLOOR PLAN

A-102



1 ROOF PLAN
1/8" = 1'-0"

GENERAL NOTES

1. ROOFING PRODUCT BASIS-OF-DESIGN: JOHNS MANVILLE JM TPO 60 MIL SINGLE PLY ROOFING OR APPROVED EQUAL (COLOR WHITE) RIGID INSULATION BOARD MECHANICALLY FASTENED TO STEEL ROOF DECK. INSULATION TO HAVE A CONTINUOUS R-25, MINIMUM @ ALL ROOFS OVER CONDITIONED SPACES, UNLESS OTHERWISE NOTED. PROVIDE ROOFING COMPONENTS AND MATERIALS APPROVED BY THE ROOFING PRODUCT MANUFACTURER. ASSEMBLE ROOFING COMPONENTS INCLUDING FLASHING, ROOF SCUPPERS, ETC. PER THE ROOFING PRODUCT MANUFACTURER'S DETAILS AND INSTRUCTIONS SO AS TO QUALIFY FOR, AND RECEIVE A SPECIAL 20-YEAR WEATHER-TIGHTNESS WARRANTY FROM THE MANUFACTURER AS WELL AS A SPECIAL 2-YEAR PROJECT WARRANTY FROM THE ROOFING INSTALLER COVERING ALL COMPONENTS OF THE ROOFING SYSTEM SUCH AS ROOFING, BASE FLASHING, ROOF INSULATION, FASTENERS, COVER BOARDS, ETC. PROVIDE ROOFING FROM A QUALIFIED MANUFACTURER THAT IS FM GLOBAL APPROVED FOR ROOFING SYSTEM IDENTICAL TO THAT USED FOR THIS PROJECT.
2. PROVIDE METAL ROOF COPINGS AND PARAPET FASCIAS FABRICATED OF ASTM B209 0.050-INCH ALUMINUM SHEET. COMPLY WITH "THE NRCA ROOFING MANUAL" AND THE SMACNA "ARCHITECTURAL SHEET METAL MANUAL REQUIREMENTS FOR DIMENSIONS AND PROFILES SHOWN UNLESS MORE STRINGENT REQUIREMENTS ARE INDICATED. PROVIDE MANUFACTURER'S 20-YEAR FINISH WARRANTY. SECURE COPINGS TO PARAPETS WITH CONT ALUMINUM CLEATS.
3. PROVIDE GALVANIZED STEEL INTERNALLY REINFORCED ROOF-CURB UNITS CAPABLE OF SUPPORTING SUPERIMPOSED LIVE AND DEAD LOADS, INCLUDING EQUIPMENT LOADS, WITH WELDED OR MECHANICALLY FASTENED, NON-SAG SEALED JOINTS AND INTEGRALLY FORMED DECK-MOUNTING FLANGE AT PERIMETER BOTTOM. COORDINATE DIMENSIONS WITH ROUGHING-IN INFORMATION ON SHOP DRAWINGS OF EQUIPMENT TO BE SUPPORTED.
4. FOR ROOF DRAIN BASIS-OF-DESIGN REFER TO PLUMBING FIXTURE SCHEDULE
5. COORDINATE DUCT SHAFTS WITH ROOF PENETRATIONS AS REQUIRED PER MANUFACTURER'S EQUIPMENT INSTALLATIONS
6. ROOF HEIGHT CALLOUTS ARE MEASURED FROM TOP OF SLAB ON GRADE TO BOTTOM OF METAL DECK.

SPECIFIC KEYNOTES - ROOF	
NUMBER	TEXT
A07	EXTERIOR FACE OF EXTERIOR WALL BELOW STRUCTURE
A08	233416 KITCHEN EXHAUST FAN FOR RANGE HOOD. REFER TO MECHANICAL
A12	RIDGE FLASHING
A14	076000 ROOFING CRICKET - SLOPE AT 1/2" PER FOOT TO DRAIN
A15	077133 OVERFLOW SCUPPER
A16	VALLEY FLASHING
A17	221426 ROOF DRAIN
A18	077133 SCUPPER WITH DOWNSPOUT
A20	075423 SINGLE PLY TPO ROOFING SYSTEM OVER CONTINUOUS R-25 RIGID INSULATION
A21	034816 CONCRETE SPLASH BLOCK
A23	075423 SINGLE PLY TPO ROOFING SYSTEM OVER TAPERED AVERAGE R-25 RIGID INSULATION
A26	MECHANICAL EQUIPMENT. REFER TO MECHANICAL
A28	076200 PREFINISHED METAL FASCIA COVER WITH TOP EXTRUDED ANCHOR BAR AND BOTTOM CONT. CLEAT
A29	075423 TPO SACRIFICIAL LAYER FOR GREASE PROTECTION
A44	072216 R-25 RIGID INSULATION
A45	053123 METAL DECKING. SEE STRUCTURAL
A46	053400 2" ACOUSTICAL SLOPED METAL DECKING. SEE STRUCTURAL
A47	072616 CONTINUOUS VAPOR BARRIER
A48	033000 CONCRETE SLAB. REFER TO STRUCTURAL
A49	052119 OPEN WEB STEEL JOIST FRAMING. PAINTED
A60	055113 PERMANENT METAL ACCESS LADDER. DELEGATED DESIGNED AND ENGINEERED BY OTHERS.
A61	077200 TPO ROOFING WALKWAY PAD
A165	053123 SLOPED METAL DECKING. SEE STRUCTURAL
A199	053400 RUBBER GASKET SEAL AT ALL DECK FLUTES
A208	LIGHTNING PROTECTION ROD, REFER TO ELECT.

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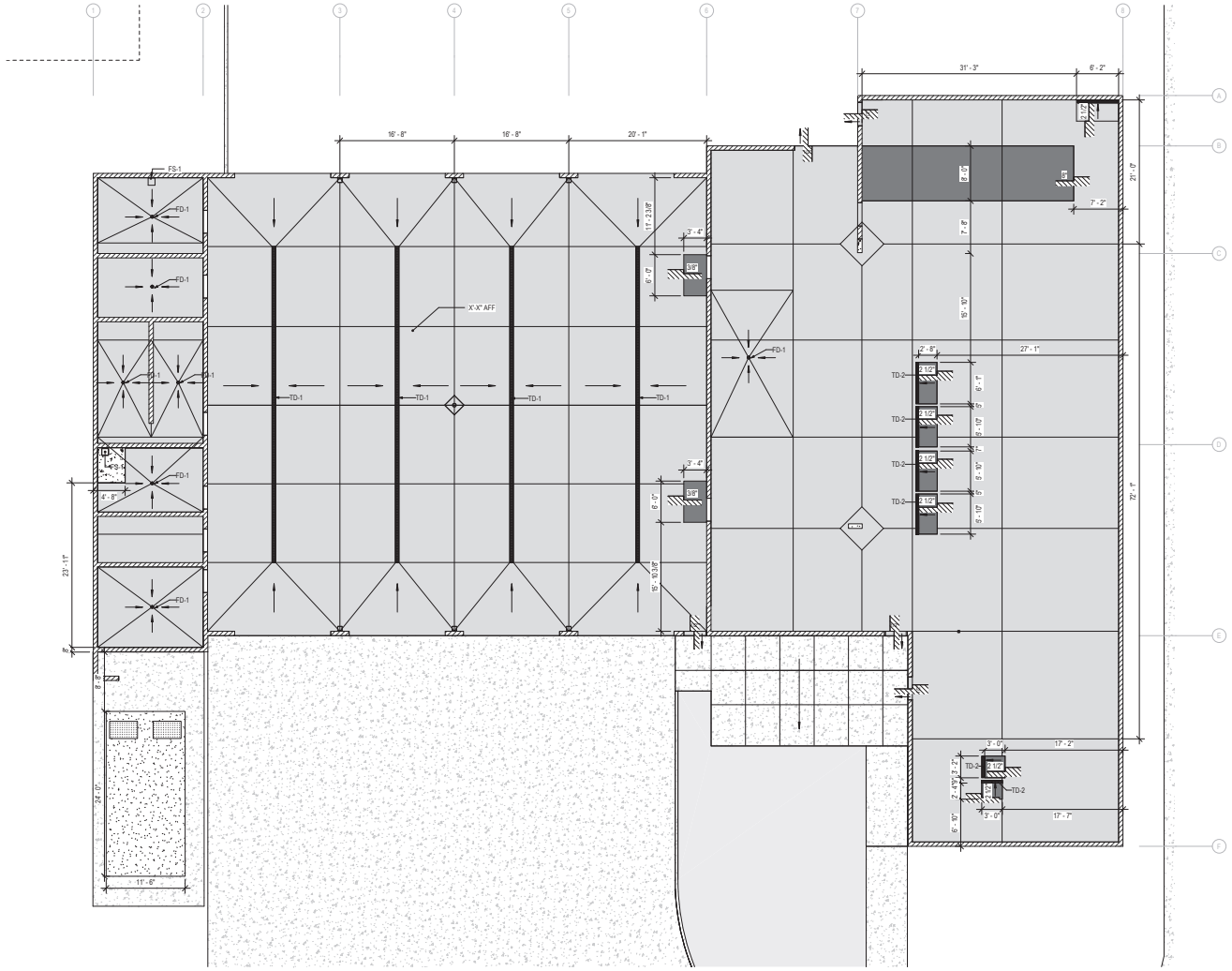
ROOF PLAN

A-106



1 LEVEL 1 - EDGE OF SLAB PLAN
1/8" = 1'-0"

GENERAL NOTES

1. COORDINATE SLAB DEPRESSION LOCATIONS WITH STRUCTURAL.
2. COORDINATE ALL GRIDLINE DIMENSIONS WITH STRUCTURAL.
3. PROVIDE 4" HIGH CONCRETE CURB AROUND ALL EQUIPMENT WHERE INDICATED ON EOS PLANS
4. VERIFY EXACT LOCATION AND DIMENSIONS OF ALL CONCRETE HOUSEKEEPING PADS WITH ARCHITECT, MECHANICAL ENGINEER, AND PLUMBING ENGINEER.
5. VERIFY EXACT LOCATION & DIMENSION OF ALL FLOOR BOX LOCATIONS & PENETRATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
6. VERIFY EXACT LOCATION & DIMENSIONS OF ALL PLUMBING PENETRATIONS AND DEPRESSIONS PRIOR TO INSTALLATION.

EDGE OF SLAB PLAN LEGEND

X'-X" AFF	FINISH FLOOR LEVEL AT BUILDING ENTRY POINT
X'-X"	SLAB DEPRESSION DEPTH
	SLAB DEPRESSION
	FLOOR SLAB
	4" HOUSEKEEPING PAD
	X" CONCRETE CURB
	X" CONCRETE CURB
	X" CONCRETE CURB

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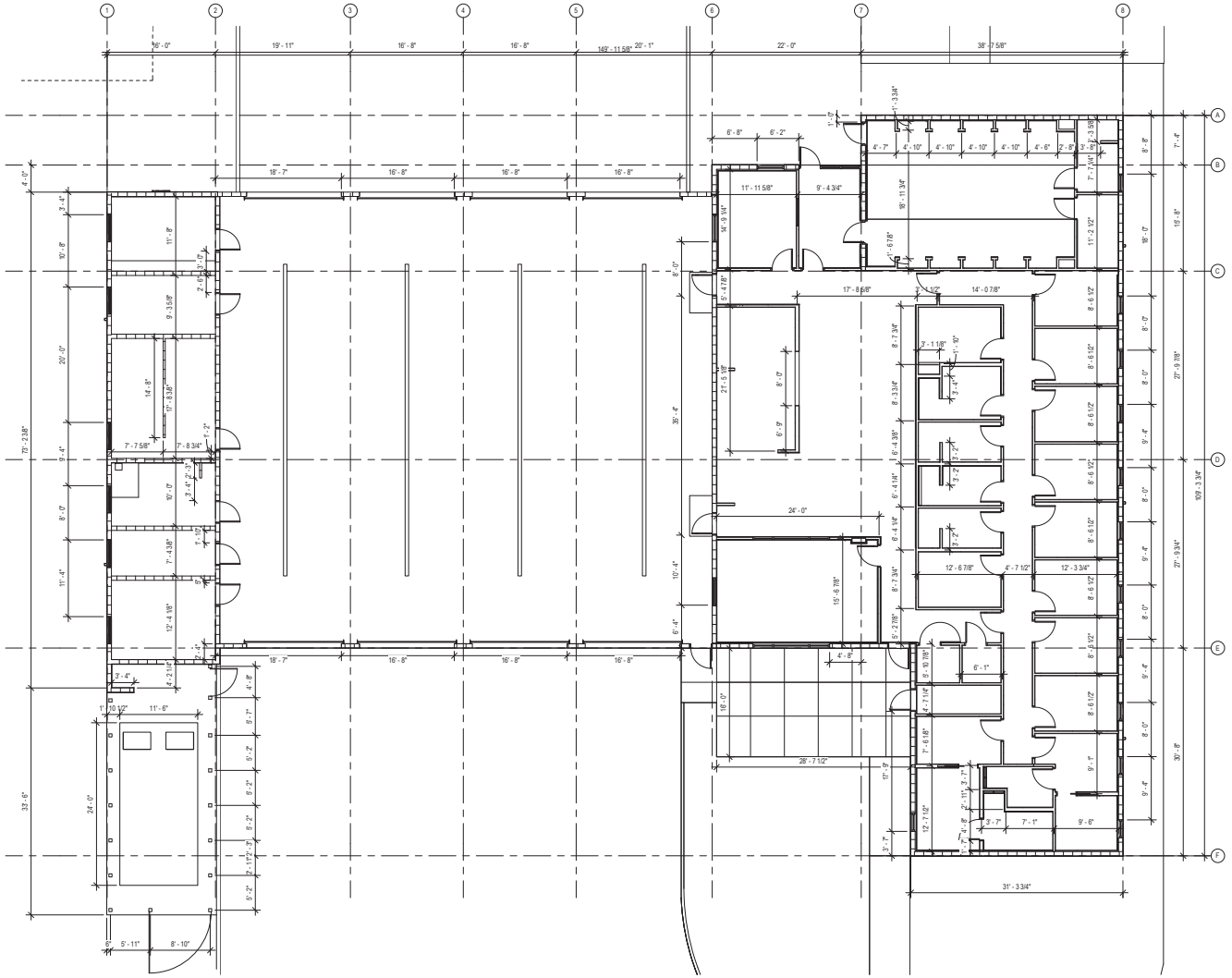
EOS PLAN

A-110



1 DIMENSION PLAN
1/8" = 1'-0"

DIMENSION NOTES:

1. DIMENSIONS ARE INDICATED TO THE FACE OF CONCRETE WALL, NOMINAL FACE OF CMU WALL, OR CENTERLINE OF PARTITION TYPE AS SCHEDULED, U.O.N. INTERIOR PARTITIONS ARE DIMENSIONED TO CENTERLINE OF STUD AND FROM INSIDE FACES OF EXTERIOR BLOCK WALLS.

2. ALIGNMENT OF PARTITIONS AND FINISHES AS SCHEDULED SHALL BE STRAIGHT, TRUE & PLUMB. THE PRIORITY FOR PROJECT DIMENSIONS SHALL BE IN THE FOLLOWING ORDER:

   A. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCE & BUILDING CODE REQUIREMENT
   B. STRUCTURAL GRID
   C. LARGE SCALE DETAILS
   D. SMALL SCALE DETAILS
   E. ENLARGED VIEWS
   F. FLOOR PLANS AND ELEVATIONS

3. FLOOR ELEVATIONS ARE INDICATED TO THE FACE OF THE STRUCTURAL SLAB, UNLESS OTHERWISE NOTED. REFER TO EDGE OF SLAB PLAN AND SITE PLAN FOR FINISH FLOOR ELEVATION.

4. VERTICAL DIMENSIONS ARE INDICATED FROM THE FINISH FLOOR ELEVATION TO FACE OF FINISHED MATERIAL AT THE DIMENSION POINT, UNLESS NOTED ABOVE FINISH FLOOR "AFF".

5. DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZE, CLEARANCE, AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.

6. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.

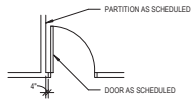
7. OPENINGS OCCURRING IN PARTITIONS OR WALLS:

   A. WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.

   B. WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE DIMENSIONED.

9. DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF FOLLOWING:

   A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE. TYPICAL UNLESS INDICATED ON PLAN.



   B. CENTERED IN WALL.
   C. OR AS DIMENSIONED ON PLAN.

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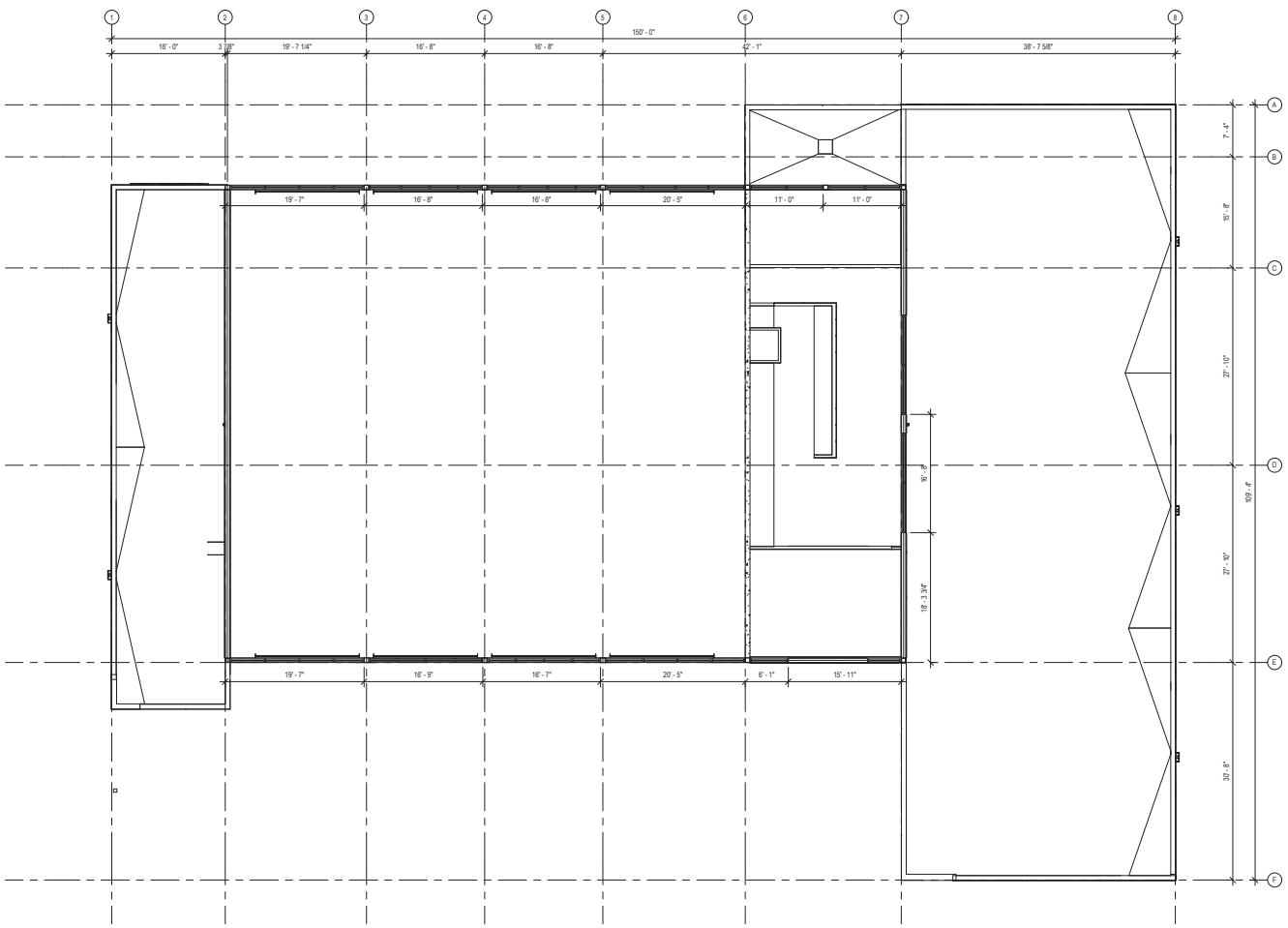
DIMENSION PLAN

A-120



1 HIGH DIMENSION PLAN
1/8" = 1'-0"

DIMENSION NOTES:

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   A. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCE & BUILDING CODE REQUIREMENT
   B. STRUCTURAL GRID
   C. LARGE SCALE DETAILS
   D. SMALL SCALE DETAILS
   E. ENLARGED VIEWS
   F. FLOOR PLANS AND ELEVATIONS

3. FLOOR ELEVATIONS ARE INDICATED TO THE FACE OF THE STRUCTURAL SLAB, UNLESS OTHERWISE NOTED. REFER TO EDGE OF SLAB PLAN AND SITE PLAN FOR FINISH FLOOR ELEVATION.

4. VERTICAL DIMENSIONS ARE INDICATED FROM THE FINISH FLOOR ELEVATION TO FACE OF FINISHED MATERIAL AT THE DIMENSION POINT, UNLESS NOTED ABOVE FINISH FLOOR "AFF".

5. DIMENSIONS SHOWN ON THE DRAWINGS SHALL INDICATE THE REQUIRED SIZE, CLEARANCE, AND DIMENSIONAL RELATIONSHIP BETWEEN PROJECT SYSTEMS AND COMPONENTS. DIMENSIONS SHALL NOT BE DETERMINED BY SCALING THE DRAWINGS.

6. MINIMUM DIMENSIONS FOR ACCESSIBILITY CLEARANCES AND BUILDING CODE REQUIREMENTS SHALL BE MAINTAINED.

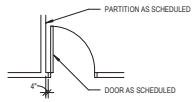
7. OPENINGS OCCURRING IN PARTITIONS OR WALLS:

   A. WHEN ONE JAMB OCCURS AT A COLUMN OR GRID LINE NO DIMENSIONS WILL BE SHOWN ON THE SMALL SCALE PLANS. THE OPENING WIDTH WILL BE GOVERNED BY CRITERIA OR SCHEDULES.

   B. WHEN NEITHER JAMB OCCURS AT A COLUMN OR GRID LINE ONE JAMB WILL BE DIMENSIONED.

9. DOOR LOCATIONS ARE TO BE LOCATED BY ONE OF FOLLOWING:

   A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE. TYPICAL UNLESS INDICATED ON PLAN.



   B. CENTERED IN WALL.
   C. OR AS DIMENSIONED ON PLAN.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

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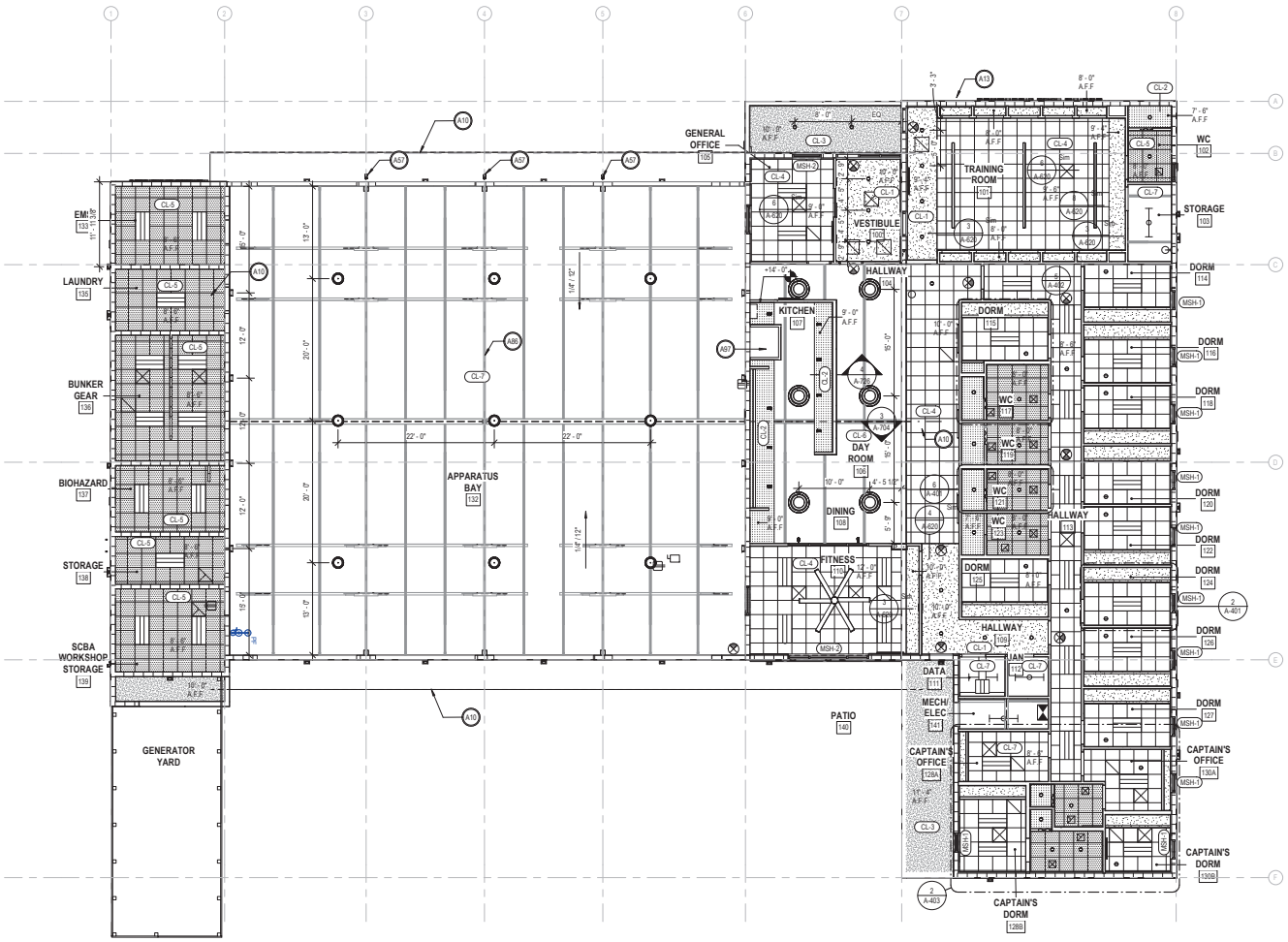
HIGH DIMENSION PLAN

A-121



1 LEVEL 1 - REFLECTED CEILING PLAN
1/8" = 1'-0"

GENERAL NOTES:

1. CEILING HEIGHTS ARE INDICATED FROM THE FINISH FLOOR ELEVATION TO THE FACE OF SUSPENDED CEILING SYSTEM OR FACE OF FINISH MATERIAL AS SCHEDULED
2. VERIFY LOCATIONS OF ALL LIGHT FIXTURES, AIR SLOTS, AIR SUPPLY AND RETURN GRILLES WITH PLANS AND COORDINATE INSTALLATION WITH MECHANICAL AND ELECTRICAL CONTRACTORS. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION.
3. ALIGN EXIT SIGNS WITH THE CENTER OF DOORS UNLESS OTHERWISE NOTED. CENTER CEILING MOUNTED EXIT SIGNS IN CORRIDOR OR CEILING PANEL IN OPEN AREAS UNLESS OTHERWISE NOTED, SEE ELECTRICAL DRAWINGS FOR LOCATION.
4. AT ACOUSTICAL PANEL CEILINGS, LOCATE ELECTRICAL OR LIFE SAFETY FIXTURES AND DEVICES IN CENTER OF PANEL, UNLESS OTHERWISE NOTED.
5. PAINT ALL MECHANICAL SLOTS, GRILLES, OR ACCESS PANELS TO MATCH SURFACE ON WHICH THEY OCCUR, UNLESS OTHERWISE NOTED.
6. CONTRACTOR IS TO PROVIDE ALL MISCELLANEOUS MTL STUD FRAMING REQUIRED FOR SOFFITS AND BULKHEADS AS GRAPHICALLY DEPICTED ON THE REFLECTED CEILING PLAN, SECTIONS AND ELEVATIONS.
7. SUPPORT FINISH EDGES OF CEILING WITH EDGE ANGLES ATTACHED TO WALL.
8. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.
9. PROVIDE CARE AND COORDINATION TO CONCEAL ALL CONDUIT, FIRE PROTECTION PIPING, AND PLUMBING
10. ALL LIGHTING IS DEPICTED TO INDICATE LOCATION ONLY, SEE ELECTRICAL FOR FIXTURE SPECIFICATIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
11. AT ALL EXPOSED METAL DECK LOCATIONS UTILIZE WEDGE BOLT/NET SYSTEM TO HANG ALL SYSTEMS.
12. PROVIDE METAL DECK WITH PRE-FINISHED EXPOSED SURFACES. PROVIDE ACOUSTICAL METAL DECK WHERE EXPOSED TO OCCUPIED SPACES WITHIN BUILDING. SEE STRUCTURAL DWGS TYP.
13. CONTROL JOINTS SHALL BE INSTALLED IN CEILING TO DELINEATE AREAS NO MORE THANK 110 SQ. FT.
14. AT EXPOSED ACOUSTICAL DECK CEILINGS, CONCEAL ALL CONDUIT ABOVE DECK.
15. ALL SPRINKLERS TO BE PAINTED, UNLESS OTHERWISE NOTED. COLOR: TBD
16. REFER TO FINISH LEGEND ON SHEET *(ID-101 OR ID-110)* FOR GYPSUM CEILINGS FINISH PAINT
17. ALL LIGHTING NOT DIMENSIONED IS CENTERED WITHIN ROOM

CEILING FIXTURE LEGEND

- SUPPLY DIFFUSER
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST VENT
- 2X4 DIRECT / INDIRECT TROFFER
- SURFACE MOUNTED FLUORESCENT LIGHT FIXTURE
- 12' SUSPENDED INDIRECT LINEAR MOUNTED @ 8' - 0" A.F.F.
- 6" LED RECESSED LIGHT FIXTURE
- 6" EXTERIOR LED RECESSED LIGHT FIXTURE
- RED LIGHT LED RECESSED FIXTURE
- UPLIGHT SCONCE MOUNTED @ 10' - 0"
- 4' LINEAR INDIRECT WALL MOUNT @ 8' - 0" A.F.F.
- UNDERCABINET LIGHT
- HIGH BAY SUSPENDED MOUNTED @ 17' - 0" A.F.F.
- 36" PENDANT MOUNTED @ 12' - 0" A.F.F.
- VANITY LIGHT FIXTURE MOUNTED @ 6' - 6" A.F.F.
- EXTERIOR SCONCE FIXTURE
- INTERIOR WALL MOUNT/ CEILING MOUNT DIRECTIONAL LIGHT FIXTURE
- EXTERIOR LANDSCAPE FLOOD LIGHT REFER TO SHEET A-001 AND A-002
- UPLIGHT - SEE SHEET A-102 FOR LOCATIONS
- 10' DIA. FAN
- EXIT SIGN

CEILING MATERIAL LEGEND

- CL-1 — DESCRIPTION: GYPSUM BOARD CEILING. MANUFACTURER: SEE ARCH. SPECIFICATIONS. COLOR: PT-3
- CL-2 — DESCRIPTION: MOISTURE RESISTANT GYPSUM BOARD CEILING. COLOR: PT-3. REMARKS: SEE ARCH. SPECIFICATIONS
- CL-3 — DESCRIPTION: EXTERIOR 7/8" STUCCO. COLOR: PT-4
- CL-4 — DESCRIPTION: ACOUSTIC CEILING TILE. MANUFACTURER: ARMSTRONG. STYLE: 2824 CALLA TEGULAR. SUSPENSION SYSTEM: 9/16" SUPRAFINE. COLOR: WHITE. SIZE: 24" X 24". REMARKS: WASHABLE. CONTACT: GREGG HUNTER 407.312.2235 GFHUNTER@ARMSTRONGCEILINGS.COM
- CL-5 — DESCRIPTION: MOISTURE RESISTANT WASHABLE SQUARE LAY IN ACOUSTIC CEILING TILE. MANUFACTURER: ARMSTRONG. STYLE: 1935 ULTIMA HEALTH ZONE. SUSPENSION SYSTEM: 15/16" PRELUDE. COLOR: WHITE. SIZE: 24" X 24". CONTACT: GREGG HUNTER 407.312.2235 GFHUNTER@ARMSTRONGCEILINGS.COM
- CL-6 — DESCRIPTION: ACOUSTICAL EXPOSED METAL DECK. MANUFACTURER: SEE ARCH. SPECIFICATIONS
- CL-7 — DESCRIPTION: NON ACOUSTICAL EXPOSED METAL DECK. MANUFACTURER: SEE ARCH. SPECIFICATIONS
- CL-8 — DESCRIPTION: EXTERIOR "AERATED" VINYL SOFFIT. MANUFACTURER: ALSIDE. STYLE: CHARTER OAK. COLOR: BLACK. REMARKS: SEE ARCH. SPECIFICATIONS
- MSH-1 — DESCRIPTION: MANUAL ROLLER SHADES. MANUFACTURER: MECHO SHADES. STYLE: MIDNITE BLACKOUTS 0200 SERIES. COLOR: SILVER 0210. REMARKS: LOCATION: DORMS. CONTACT: JONATHAN GOSSEL 407.403.6727 JONATHANGOSSEL@MECHOSYSTEMS.COM
- MSH-2 — DESCRIPTION: MANUAL ROLLER SHADES. MANUFACTURER: MECHO SHADES. STYLE: MANUAL THERMOVEIL 1300 SERIES. COLOR: SILVER BIRCH 1319. REMARKS: LOCATION: OFFICE + FITNESS. CONTACT: JONATHAN GOSSEL 407.403.6727 JONATHANGOSSEL@MECHOSYSTEMS.COM
- MSH-3 — DESCRIPTION: MANUAL ROLLER SHADES. MANUFACTURER: MECHO SHADES. STYLE: MOTORIZED THERMOVEIL 1300 SERIES. COLOR: SILVER BIRCH 1319. REMARKS: LOCATION: DAY ROOM, REFER TO SHEET A-102 FOR LOCATIONS. CONTACT: JONATHAN GOSSEL 407.403.6727 JONATHANGOSSEL@MECHOSYSTEMS.COM

SPECIFIC KEYNOTES - RCP	
NUMBER	TEXT
A10	ROOF OVERHANG ABOVE
A13	101419 PROVIDE 4'-0" HIGH BACKLIT POWDER COATED ALUMINUM "S"
A24	255619 EXTERIOR LED SCONCE, REFER TO ELECTRICAL.
A57	265619 EXTERIOR LED FLOOD LIGHT, REFER TO ELECTRICAL
A86	108113 BIRD DETERRENT TRACK INSTALLED OVER STRUCTURAL STEEL JOIST.
A87	233416 KITCHEN HOOD. DUCTWORK SHAFT PAINTED GYP ENCLOSURE. REFER TO MECHANICAL

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HERNANDO COUNTY FIRE STATION #5

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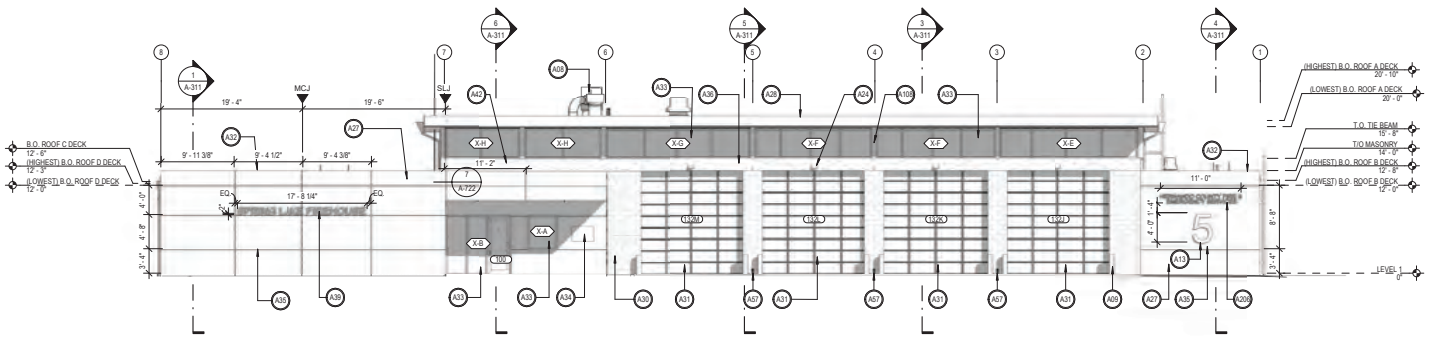
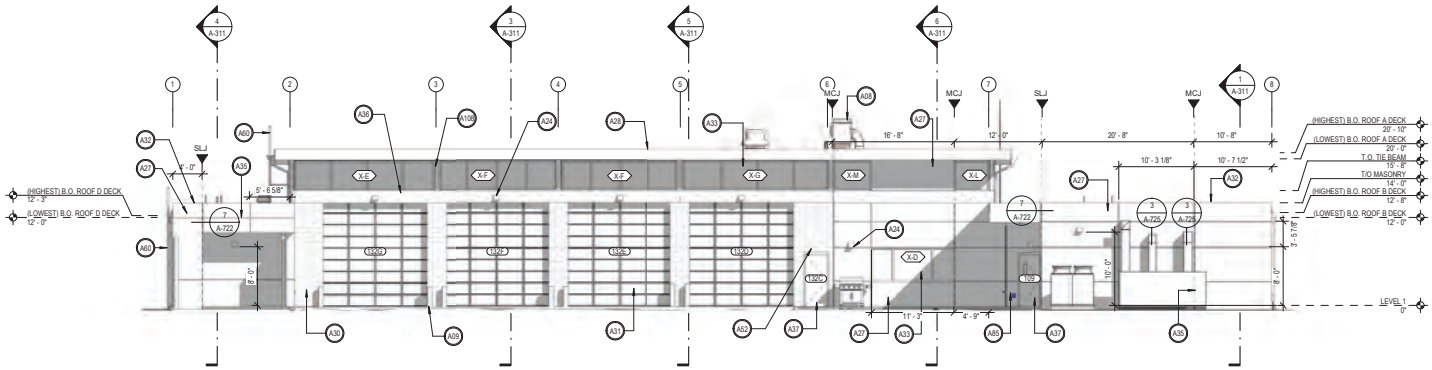
REFLECTED CEILING PLAN

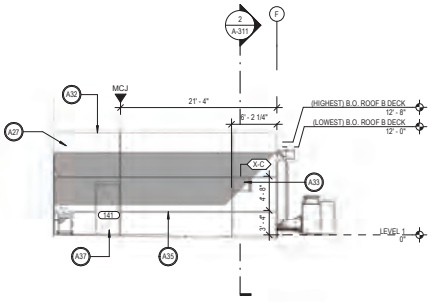
A-201



1 NORTH ELEVATION
1/8" = 1'-0"



2 SOUTH ELEVATION
1/8" = 1'-0"



3 PARTIAL WEST ELEVATION
1/8" = 1'-0"

SPECIFIC KEYNOTES - ELEVATIONS	
NUMBER	TEXT
A08	233416 KITCHEN EXHAUST FAN FOR RANGE HOOD, REFER TO MECHANICAL
A09	034813 PAINTED 8" CONCRETE BOLLARDS
A13	101419 PROVIDE 4'-0" HIGH BACKLIT POWDER COATED ALUMINUM "S"
A15	077133 OVERFLOW SCUPPER
A18	077133 SCUPPER WITH DOWNSPOUT
A19	074646 8'- 0" HIGH PAINTED FIBER CEMENT BOARD SOLID FENCE WITH HORIZONTAL 4" PLANKS
A24	255619 EXTERIOR LED SCONCE, REFER TO ELECTRICAL.
A27	092423 PAINTED STUCCO SYSTEM
A28	076200 PREFINISHED METAL FASCIA COVER WITH TOP EXTRUDED ANCHOR BAR AND BOTTOM CONT. CLEAT
A29	075423 TPO SACRIFICIAL LAYER FOR GREASE PROTECTION
A30	042113 STRUCTURAL COLORED BRICK MASONRY
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A32	077113 PREFINISHED SLOPED METAL COPING WITH DRIP EDGE, TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A34	PLAQUE. COORDINATE WITH OWNER FOR SIZE AND FINAL LOCATION
A35	077126 3/4" PAINTED STUCCO CONTROL JOINT, TYP.
A36	033053 CONCRETE TIE BEAM, RUB DOWN SEALED FINISH, TYP.
A37	081113 PAINTED HOLLOW METAL DOOR AND FRAME, REFER TO DOOR SCHEDULE
A39	101419 12" BACKLIT CLEAR ANODIZED BUILDING SIGNAGE STATING "SPRING LAKE FIREHOUSE"
A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A50	042200 FOAMED-IN-PLACE INSULATED CMU BLOCK R-5.7
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE. SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A57	265619 EXTERIOR LED FLOOD LIGHT, REFER TO ELECTRICAL.
A60	055113 PERMANENT METAL ACCESS LADDER. DELEGATED DESIGNED AND ENGINEERED BY OTHERS
A85	400581 HOSE BIBB, REFER TO PLUMBING
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A92	089500 PROVIDE WALL CAP FOR DRYER EXHAUST, REFER TO MECHANICAL
A108	051200 PAINTED GALVANIZED STEEL COLUMN, TYP. AT ALL EXTERIOR EXPOSED COLUMNS. SEE STRUCTURAL
A129	072119 FOAMED-IN-PLACE MASONRY INSULATION R-5.7
A206	101419 7' BACKLIT CLEAR ANODIZED BUILDING SIGNAGE STATING "HERNANDO COUNTY FIRE & EMERGENCY SERVICES"
A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS

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HERNANDO COUNTY FIRE STATION #5

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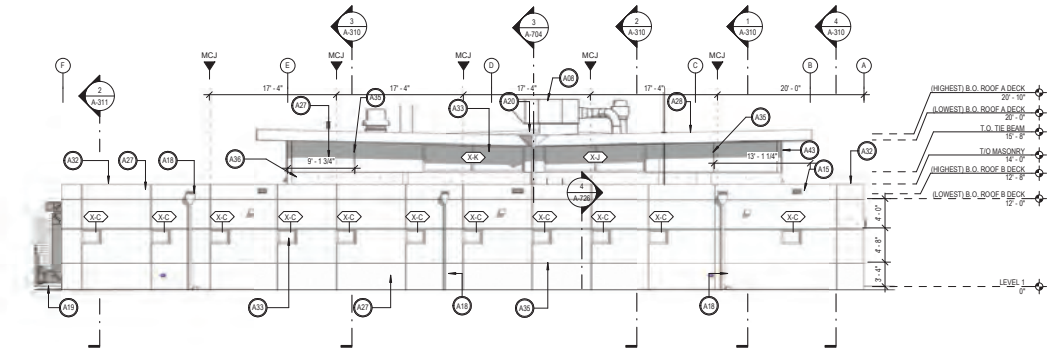
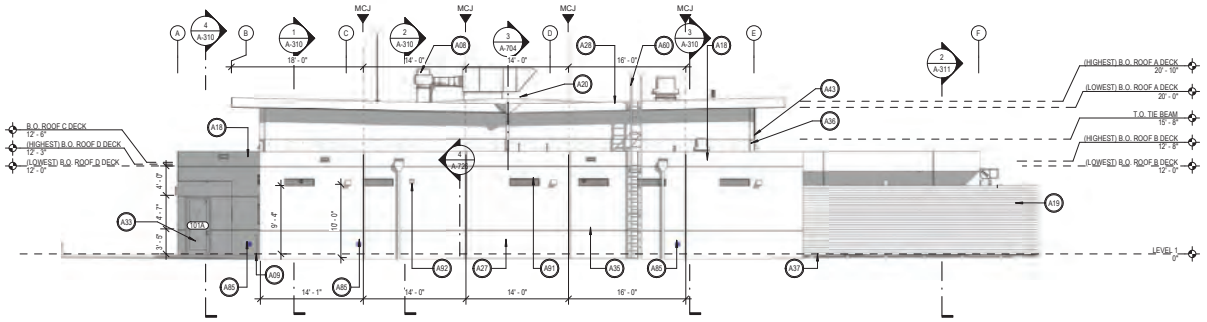
EXTERIOR ELEVATIONS

A-300



1 EAST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"

SPECIFIC KEYNOTES - ELEVATIONS	
NUMBER	TEXT
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A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE. SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A57	265619 EXTERIOR LED FLOOD LIGHT, REFER TO ELECTRICAL.
A60	055113 PERMANENT METAL ACCESS LADDER. DELEGATED DESIGNED AND ENGINEERED BY OTHERS
A85	400981 HOSE BIBB, REFER TO PLUMBING.
A91	0861119 48"x 12" LOUVER, REFER TO MECHANICAL.
A92	089500 PROVIDE WALL CAP FOR DRYER EXHAUST, REFER TO MECHANICAL
A108	051200 PAINTED GALVANIZED STEEL COLUMN, TYP. AT ALL EXTERIOR EXPOSED COLUMNS. SEE STRUCTURAL
A129	072119 FOAMED-IN-PLACE MASONRY INSULATION R-5.7
A206	101419 7" BACKLIT CLEAR ANODIZED BUILDING SIGNAGE STATING "HERNANDO COUNTY FIRE & EMERGENCY SERVICES"
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HERNANDO COUNTY FIRE STATION #5

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Project number
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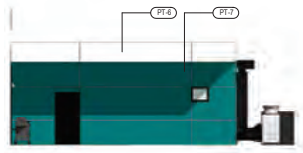
BID SET	01/27/21

EXTERIOR ELEVATIONS

A-301

1 NORTH ELEVATION PAINTED
1/8" = 1'-0"

2 SOUTH ELEVATION PAINTED
1/8" = 1'-0"



3 PARTIAL WEST ELEVATION PAINTED
1/8" = 1'-0"

GENERAL NOTES - EXTERIOR

1. ALL EXPOSED SURFACES SHALL BE FINISHED. VERIFY FINISH WITH THE ARCHITECT WHERE THE FINISH IS NOT INDICATED OR IS UNCLEAR.
2. PAINT HOLLOW METAL DOOR FRAMES (*P-4*) OR (*TO MATCH ADJACENT WALL*).
3. PROVIDE A 6'X6' PAINT SWATCH ON SITE FOR APPROVAL PRIOR TO PAINTING.

FINISH LEGEND

- CS-1 — DESCRIPTION: CONCRETE SEALED; REMARKS: REFER TO SPECIFICATIONS
- B-1 — DESCRIPTION: ARCHITECTURAL BRICK; REMARKS: REFER TO SPECIFICATIONS
- PT-5 — DESCRIPTION: EPOXY PAINT FOR METAL COLUMNS & EXPOSED DECK; MANUFACTURER: SHERWIN WILLIAMS; COLOR: T.B.D.
- PT-6 — DESCRIPTION: EXTERIOR EPOXY FIELD PAINT; MANUFACTURER: SHERWIN WILLIAMS; COLOR: T.B.D.
- PT-7 — DESCRIPTION: ACCENT EPOXY PAINT; MANUFACTURER: SHERWIN WILLIAMS; COLOR: T.B.D.
- PT-8 — DESCRIPTION: ACCENT EPOXY PAINT; MANUFACTURER: SHERWIN WILLIAMS; COLOR: T.B.D.
- PT-9 — DESCRIPTION: TO MATCH PT-8; MANUFACTURER: T.B.D.; COLOR: T.B.D.
- PT-10 — DESCRIPTION: EPOXY PAINT FOR METAL FASCIA; MANUFACTURER: SHERWIN WILLIAMS; COLOR: T.B.D.
- PT-11 — DESCRIPTION: EPOXY PAINT FOR METAL LADDER TO MATCH PT-10; MANUFACTURER: T.B.D.; COLOR: T.B.D.
- PT-12 — DESCRIPTION: PAINT TO MATCH PT-10; MANUFACTURER: T.B.D.; COLOR: T.B.D.
- PT-13 — DESCRIPTION: EXTERIOR EPOXY PAINT TO MATCH PT-6; MANUFACTURER: T.B.D.; COLOR: T.B.D.

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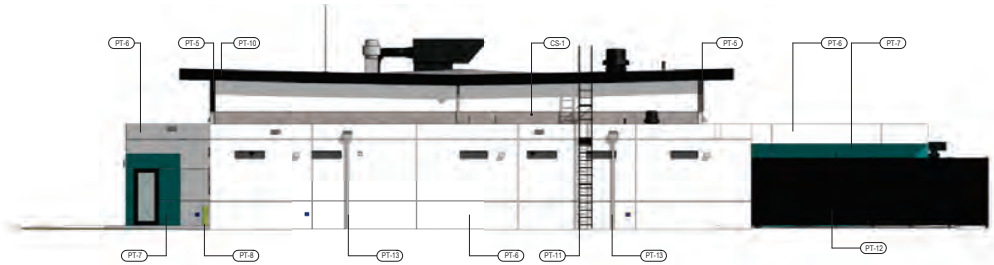
EXTERIOR ELEVATIONS PAINTED

A-302

1 EAST ELEVATION PAINTED
1/8" = 1'-0"



2 WEST ELEVATION PAINTED
1/8" = 1'-0"

GENERAL NOTES - EXTERIOR

1. ALL EXPOSED SURFACES SHALL BE FINISHED. VERIFY FINISH WITH THE ARCHITECT WHERE THE FINISH IS NOT INDICATED OR IS UNCLEAR.
2. PAINT HOLLOW METAL DOOR FRAMES (P-6) OR (*TO MATCH ADJACENT WALL*).
3. PROVIDE A 6'X6' PAINT SWATCH ON SITE FOR APPROVAL PRIOR TO PAINTING.

FINISH LEGEND

CS-1 DESCRIPTION: CONCRETE SEALED
REMARKS: REFER TO SPECIFICATIONS

B-1 DESCRIPTION: ARCHITECTURAL BRICK
REMARKS: REFER TO SPECIFICATIONS

PT-5 DESCRIPTION: EPOXY PAINT FOR METAL COLUMNS & EXPOSED DECK
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-6 DESCRIPTION: EXTERIOR EPOXY FIELD PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-7 DESCRIPTION: ACCENT EPOXY PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-8 DESCRIPTION: ACCENT EPOXY PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-9 DESCRIPTION: TO MATCH PT-8
MANUFACTURER: T.B.D.
COLOR: T.B.D.

PT-10 DESCRIPTION: EPOXY PAINT FOR METAL FASCIA
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-11 DESCRIPTION: EPOXY PAINT FOR METAL LADDER TO MATCH PT-10
MANUFACTURER: T.B.D.
COLOR: T.B.D.

PT-12 DESCRIPTION: PAINT TO MATCH PT-10
MANUFACTURER: T.B.D.
COLOR: T.B.D.

PT-13 DESCRIPTION: EXTERIOR EPOXY PAINT TO MATCH PT-6
MANUFACTURER: T.B.D.
COLOR: T.B.D.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

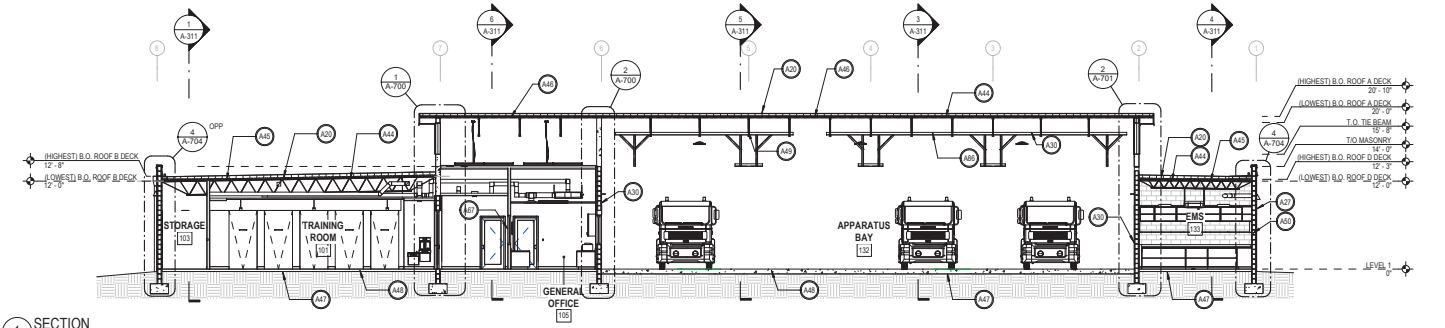
Project number
1932

DISTRIBUTION

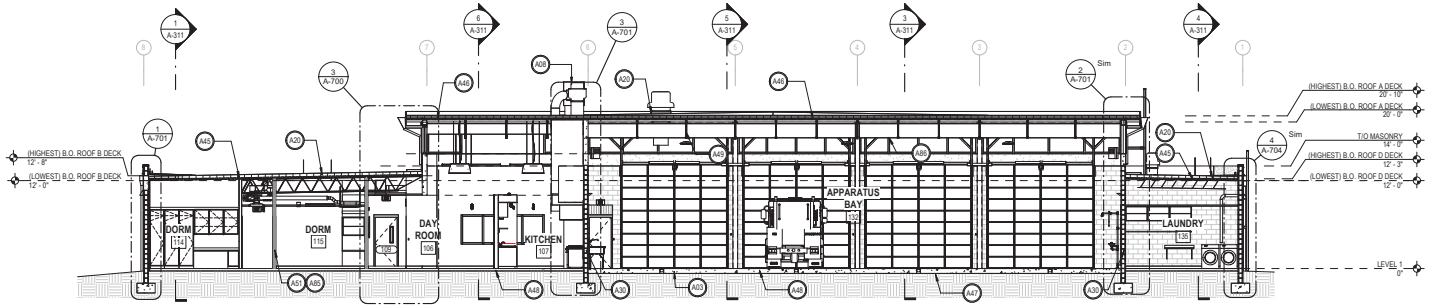
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

EXTERIOR ELEVATIONS PAINTED

A-303



1 SECTION
1/8" = 1'-0"



2 SECTION
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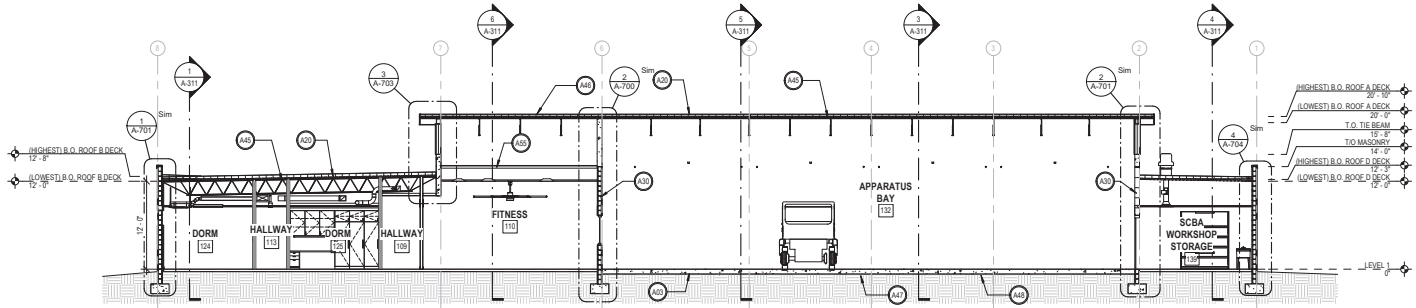
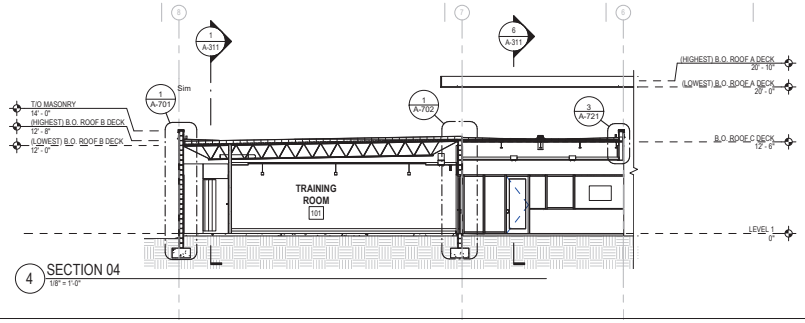


3 SECTION
1/8" = 1'-0"



4 SECTION 04
1/8" = 1'-0"

SPECIFIC KEYNOTES - BUILDING SECTIONS	
NUMBER	TEXT
A03	221319 TRENCH DRAIN, SLOPED FLOOR 1% TO DRAIN. REFER TO PLUMBING
A19	074646 8'- 0" HIGH PAINTED FIBER CEMENT BOARD SOLID FENCE WITH HORIZONTAL 4" PLANKS
A20	075423 SINGLE PLY TPO ROOFING SYSTEM OVER CONTINUOUS R-25 RIGID INSULATION
A23	075423 SINGLE PLY TPO ROOFING SYSTEM OVER TAPERED AVERAGE R-25 RIGID INSULATION
A24	259619 EXTERIOR LED SCONCE. REFER TO ELECTRICAL
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A27	092423 PAINTED STUCCO SYSTEM
A28	076200 PREFINISHED METAL FASCIA COVER WITH TOP EXTRUDED ANCHOR BAR AND BOTTOM CONT. CLEAT
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A32	077113 PREFINISHED SLOPED METAL COPING WITH DRIP EDGE, TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A35	077126 3/4" PAINTED STUCCO CONTROL JOINT, TYP.
A36	033053 CONCRETE TIE BEAM, RUB DOWN SEALED FINISH, TYP.
A37	081113 PAINTED HOLLOW METAL DOOR AND FRAME, REFER TO DOOR SCHEDULE
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A44	072216 R-25 RIGID INSULATION
A45	053123 METAL DECKING. SEE STRUCTURAL
A46	053400 2" ACOUSTICAL SLOPED METAL DECKING. SEE STRUCTURAL
A47	072616 CONTINUOUS VAPOR BARRIER
A48	033000 CONCRETE SLAB, REFER TO STRUCTURAL
A49	052119 OPEN WEB STEEL JOIST FRAMING, PAINTED
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A55	060573 PAINTED 1/2" FIRE TREATED PLYWOOD CEILING CAP OVER 3 5/8" STUD, SLOPED AT 1/4" PER FOOT. SUSPEND ALL MECHANICAL, SPRINKLERS, AND ELECTRICAL DEVICES FROM THIS CEILING
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A68	042200 INTERIOR 8" CMU BLOCK
A86	108113 BIRD DETERRENT TRACK INSTALLED OVER STRUCTURAL STEEL JOIST
A90	HOSELESS EXHAUST SYSTEM, REFER TO MECHANICAL
A110	092116 PAINTED GYPSUM BOARD CEILING SYSTEM
A165	053123 SLOPED METAL DECKING. SEE STRUCTURAL
A199	053400 RUBBER GASKET SEAL AT ALL DECK FLUTES

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

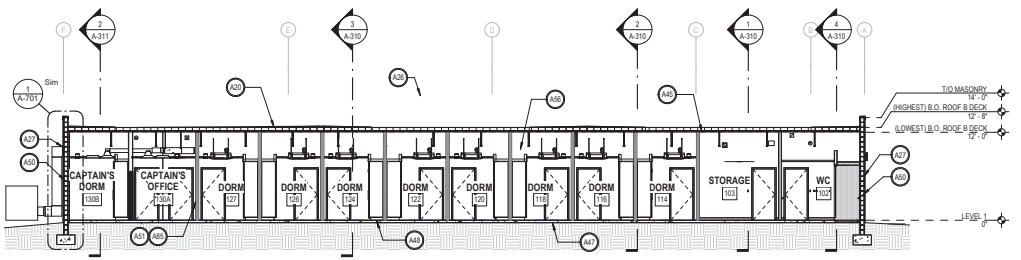
Project number
1932

DISTRIBUTION

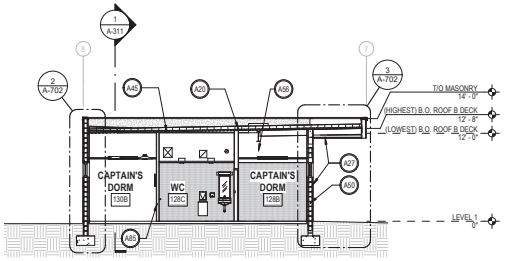
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

BUILDING SECTIONS

A-310



1 SECTION
1/8" = 1'-0"



2 SECTION
1/8" = 1'-0"

SPECIFIC KEYNOTES - BUILDING SECTIONS	
NUMBER	TEXT
A09	221319 TRENCH DRAIN, SLOPED FLOOR 1% TO DRAIN. REFER TO PLUMBING
A19	074646 8'-0" HIGH PAINTED FIBER CEMENT BOARD SOLID FENCE WITH HORIZONTAL 4" PLANKS
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A23	075423 SINGLE PLY TPO ROOFING SYSTEM OVER TAPERED AVERAGE R-25 RIGID INSULATION
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A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
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A28	076200 PREFINISHED METAL FASCIA COVER WITH TOP EXTRUDED ANCHOR BAR AND BOTTOM CONT. CLEAT
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A37	081113 PAINTED HOLLOW METAL DOOR AND FRAME, REFER TO DOOR SCHEDULE
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A44	072216 R-25 RIGID INSULATION
A45	053123 METAL DECKING. SEE STRUCTURAL
A46	053409 2" ACOUSTICAL SLOPED METAL DECKING. SEE STRUCTURAL
A47	072616 CONTINUOUS VAPOR BARRIER
A48	033000 CONCRETE SLAB, REFER TO STRUCTURAL
A49	052119 OPEN WEB STEEL JOIST FRAMING, PAINTED
A51	052116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
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A55	060573 PAINTED 1/2" FIRE TREATED PLYWOOD CEILING CAP OVER 3 5/8" STUD, SLOPED AT 1/4" PER FOOT. SUSPEND ALL MECHANICAL, SPRINKLERS, AND ELECTRICAL DEVICES FROM THIS CEILING
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A68	042200 INTERIOR 8" CMU BLOCK
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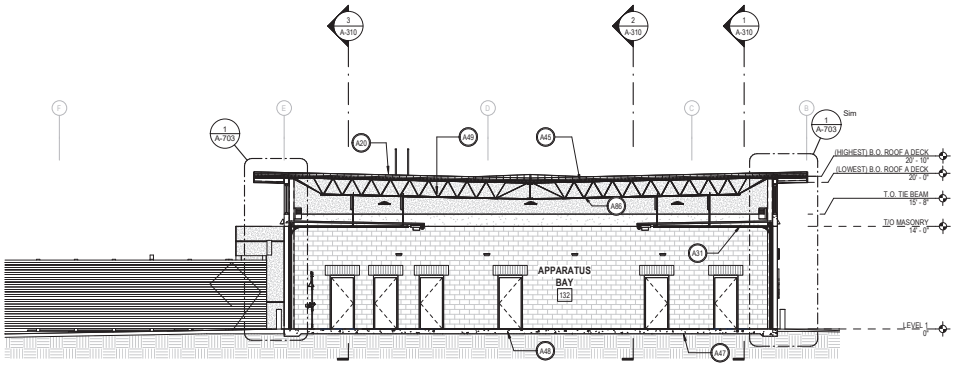
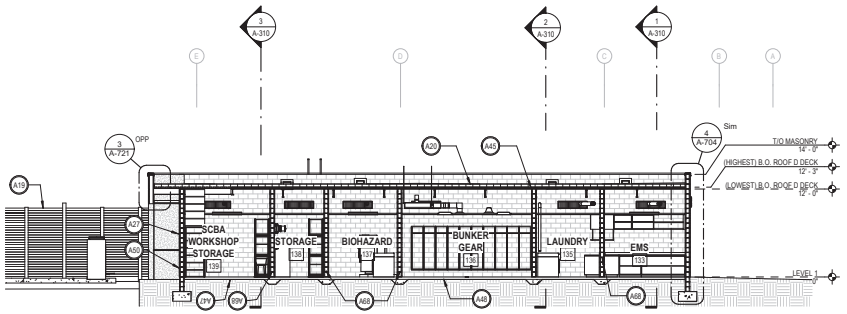


3 SECTION
1/8" = 1'-0"



4 SECTION
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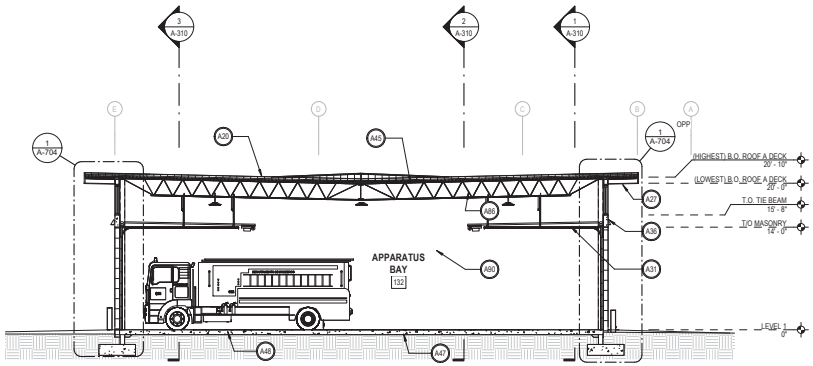
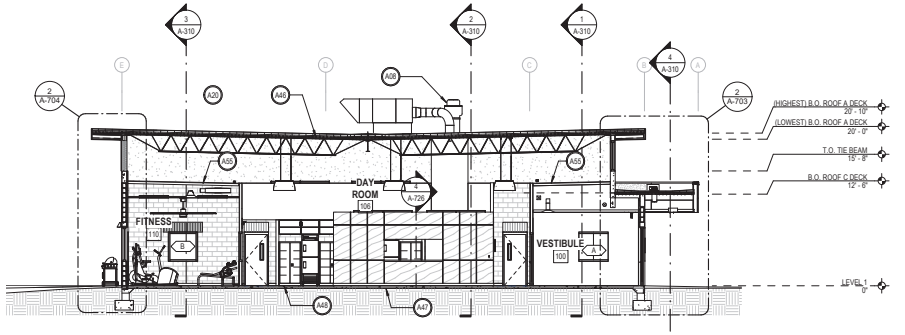


5 SECTION
1/8" = 1'-0"



6 SECTION
1/8" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

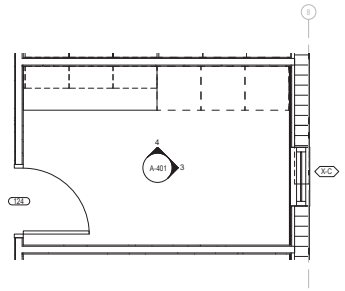
Project number
1932

DISTRIBUTION

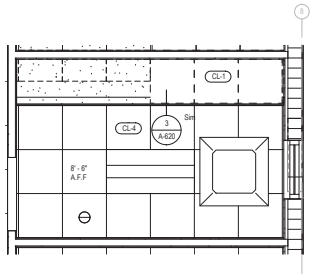
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

BUILDING SECTIONS

A-311



1 TYP. DORM PLAN
3/8" = 1'-0"



2 TYP. DORM RCP
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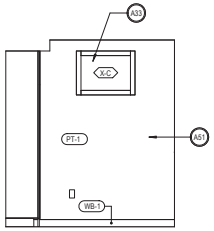
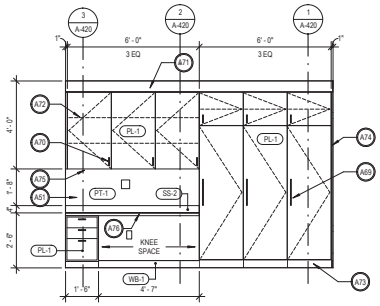


3 TYP. DORM REAR WALL
3/8" = 1'-0"



4 TYP. DORM DESK WALL
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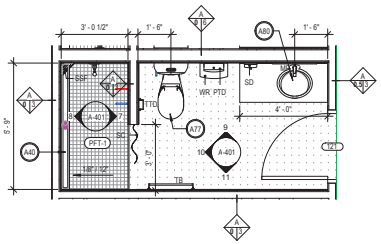
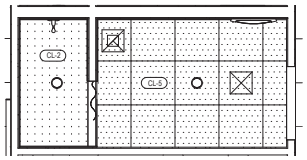
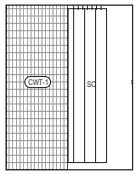


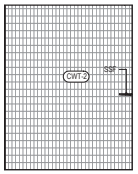
5 TYP. WC PLAN @ WC 117,119 AND 121
3/8" = 1'-0"



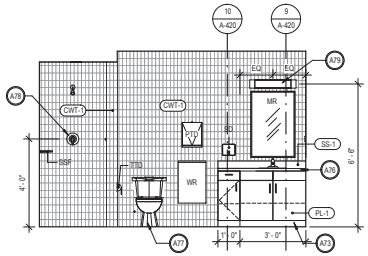
6 TYP. WC RCP @ WC 117,119 AND 121
3/8" = 1'-0"



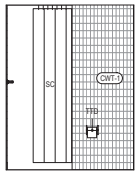
7 SHOWER ENTRANCE
3/8" = 1'-0"



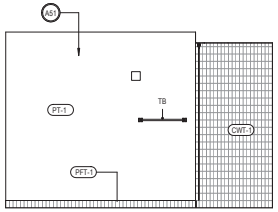
8 SHOWER SIDE WALL
3/8" = 1'-0"



9 WC FIXTURE WALL
3/8" = 1'-0"



10 WC SIDE WALL
3/8" = 1'-0"



11 WC BACK WALL
3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G-104 FOR BATHROOM FIXTURE MOUNTING HEIGHTS AND INFORMATION.
2. REFER TO FINISH PLANS FOR SPECIFIC FINISHES ON SHEET ID-101
3. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
4. TOILET PARTITIONS TO BE FLOOR MOUNTED, PARTITIONS SHOULD HAVE A CONTINUOUS PLASTIC WALL BRACKET, PLASTIC SHOES, AND A CONTINUOUS HINGE.
4. ALIGN CENTER OF MIRRORS AND VANITY LIGHT WITH CENTERLINE OF LAVATORIES, TYP. U.N.O.
5. MANUFACTURERS NOTED IN ACCESSORY AND FIXTURES LEGEND TO BE USED AS BASIS OF DESIGN, UNLESS NOTED OTHERWISE. PLEASE SEE PLUMBING SCHEDULE FOR REFERENCE.
6. ALL TOILET ACCESSORIES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL, INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS	
NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
A40	221319 LINEAR FLOOR DRAIN AT CURBLESS TILED SHOWER. REFER TO PLUMBING
A41	221319 FLOOR DRAIN, REFER TO PLUMBING
A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A59	224216 FLOOR SINK, REFER TO PLUMBING
A62	123500 STAINLESS STEEL CABINET W/ OPEN SHELVES, REFER TO EQUIPMENT SCHEDULE
A64	QUARTZ PASS-THRU COUNTER, EASED EDGES, REFER TO MILLWORK DETAILS
A66	224216 MOP SINK, REFER TO PLUMBING
A67	085619 INTERIOR SLIDING PASS WINDOW
A69	064116 PLASTIC LAMINATE LOCKERS. 064183 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL LOCKERS
A70	064183 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL CABINETS AND DRAWERS
A71	092116 PAINTED GYPSUM BOARD SOFFIT
A72	064116 ADJUSTABLE SHELVES ON METAL PINS
A73	096513 CONTOURED VINYL WALL BASE AT TOEKICK
A74	123623 PLASTIC LAMINATE CABINET FILLER
A75	064116 PROVIDE VALANCE TO CONCEAL LED UNDERCABINET LIGHTING
A76	123661 SOLID SURFACE COUNTERTOP, EASED EDGES W/ 4" BACKSPLASH
A77	224213 FLOOR MOUNTED TOILET, REFER TO PLUMBING
A78	224239 SHOWER TRIM KIT, REFER TO PLUMBING
A79	265119 VANITY LIGHT FIXTURE CENTERED ABOVE MIRROR, REFER TO ELECTRICAL
A80	224216 UNDERMOUNT LAVATORY, REFER TO PLUMBING
A81	224239 ADA SHOWER TRIM KIT, REFER TO PLUMBING
A82	224216 ADA WALL MOUNT LAVATORY, REFER TO PLUMBING
A83	123500 STAINLESS STEEL OPEN SHELVES
A84	BUILT-IN PULL DOWN MURPHY BEDS
A88	051200 PAINTED STEEL BEAM, SEE STRUCTURAL
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A95	097200 DECORATIVE WALL PROTECTION, REFER TO MILLWORK DETAILS
A96	224200 ADA WALL MOUNT STAINLESS STEEL SINK, REFER TO PLUMBING
A97	233416 KITCHEN HOOD. DUCTWORK SHAFT PAINTED GYP ENCLOSURE. REFER TO MECHANICAL
A98	064116 BUILT- IN SHELVES
A99	LINEAR DIFUSSERS, REFER TO MECHANICAL
A123	PAINT ALL EXPOSED CONDUIT AND PIPING THROUGHOUT
A203	FOR ALTERNATE PANELING DETAILS, SEE MILLWORK SHEET A-420
A204	PROVIDE FILLER, COLOR TO MATCH
A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.

TOILET ACCESSORY SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
GB12	GRAB BAR 12"	BOBRICK	B-5806	
GB18	GRAB BAR 18"	BOBRICK	B-5806	
GB24	GRAB BAR 24"	BOBRICK	B-5806	
GB36	GRAB BAR 36"	BOBRICK	B-5806	
GB42	GRAB BAR 42"	BOBRICK	B-5806	
GB60	GRAB BAR 60"	BOBRICK	B-5806	
GB66	GRAB BAR 66"	BOBRICK	B-5806	
MR	MIRROR 24" W X 36" H	BOBRICK	B-165	
MR-1	MIRROR 18" W X 36" H	BOBRICK	B-165 Series	
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK	B-4262	
SC	VINYL SHOWER CURTAIN	BOBRICK	B-204-2	INCLUDE HOOKS 204-1, AND ROD B6107
SD	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-4112	
SHS	PHENOLIC FOLDING SHOWER SEAT	BOBRICK	5191	
SSF	9" STAINLESS STEEL CORNER SHELF	GATCO	1470	
TB	24" TOWEL BAR	BOBRICK	B-6747	
TTD	RECESSED TOILET TISSUE HOLDER	BOBRICK	B-663	
WR	WASTE RECEPTACLE SURF. MTD	BOBRICK	B-277	

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

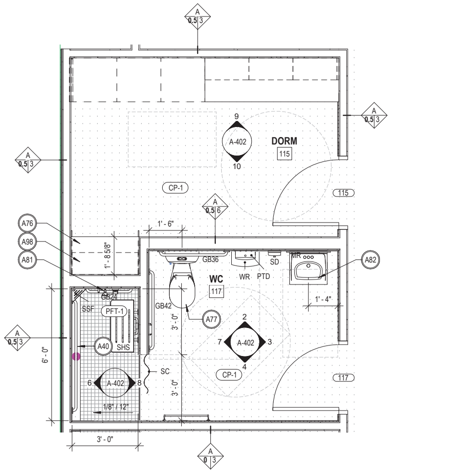
Project number
1932

DISTRIBUTION

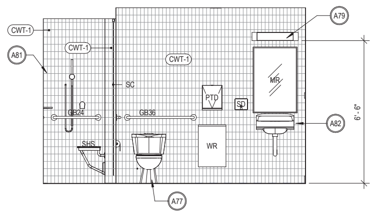
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

TYP DORM - ENLARGED PLANS AND ELEVATIONS

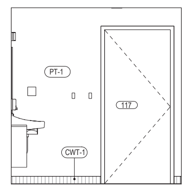
A-401



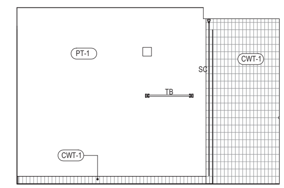
1 MOBILITY DORM / BATHROOM PLAN (ALT ROLL-IN SHOWER)
3/8" = 1'-0"



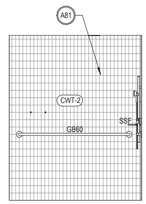
2 MOBILITY WC 117 - NORTH
3/8" = 1'-0"



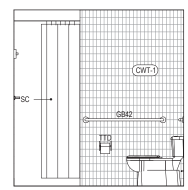
3 MOBILITY 117WC - EAST
3/8" = 1'-0"



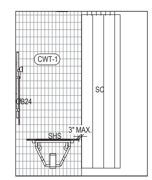
4 MOBILITY 117 WC - SOUTH
3/8" = 1'-0"



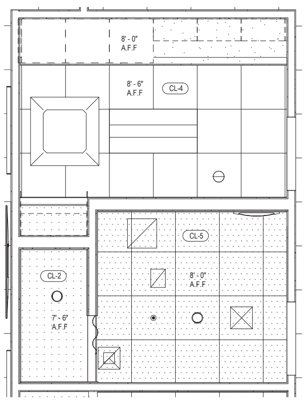
6 MOBILITY WC 117 SHOWER - WEST
3/8" = 1'-0"



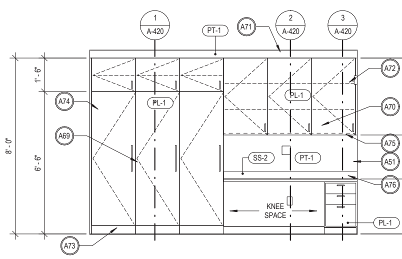
7 MOBILITY 117 WC - WEST
3/8" = 1'-0"



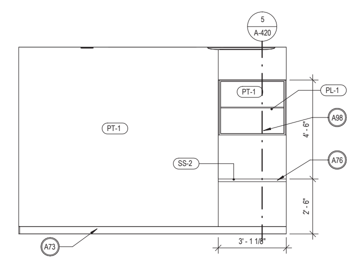
8 MOBILITY 117 WC SHOWER - EAST
3/8" = 1'-0"



5 MOBILITY DORM AND WC - RCP
3/8" = 1'-0"



9 MOBILITY 115 DORM - NORTH
3/8" = 1'-0"



10 MOBILITY 115 DORM - SOUTH
3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G-104 FOR BATHROOM FIXTURE MOUNTING HEIGHTS AND INFORMATION.
2. REFER TO FINISH PLANS FOR SPECIFIC FINISHES ON SHEET ID-101
3. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
4. TOILET PARTITIONS TO BE FLOOR MOUNTED, PARTITIONS SHOULD HAVE A CONTINUOUS PLASTIC WALL BRACKET, PLASTIC SHOES, AND A CONTINUOUS HINGE.
4. ALIGN CENTER OF MIRRORS AND VANITY LIGHT WITH CENTERLINE OF LAVATORIES, TYP. U.N.O.
5. MANUFACTURERS NOTED IN ACCESSORY AND FIXTURES LEGEND TO BE USED AS BASIS OF DESIGN, UNLESS NOTED OTHERWISE. PLEASE SEE PLUMBING SCHEDULE FOR REFERENCE.
6. ALL TOILET ACCESSORIES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL, INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS

NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
A40	221319 LINEAR FLOOR DRAIN AT CURBLESS TILED SHOWER. REFER TO PLUMBING
A41	221319 FLOOR DRAIN, REFER TO PLUMBING
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HERNANDO COUNTY FIRE STATION #5
9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
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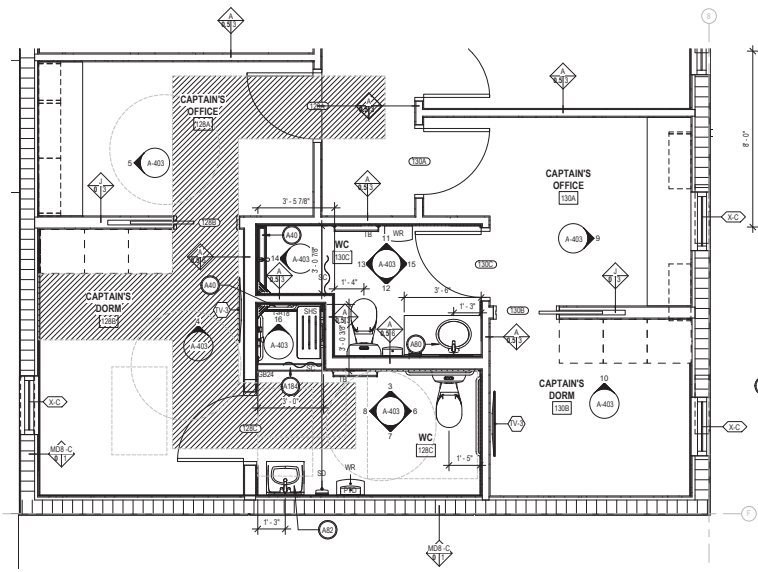
DISTRIBUTION

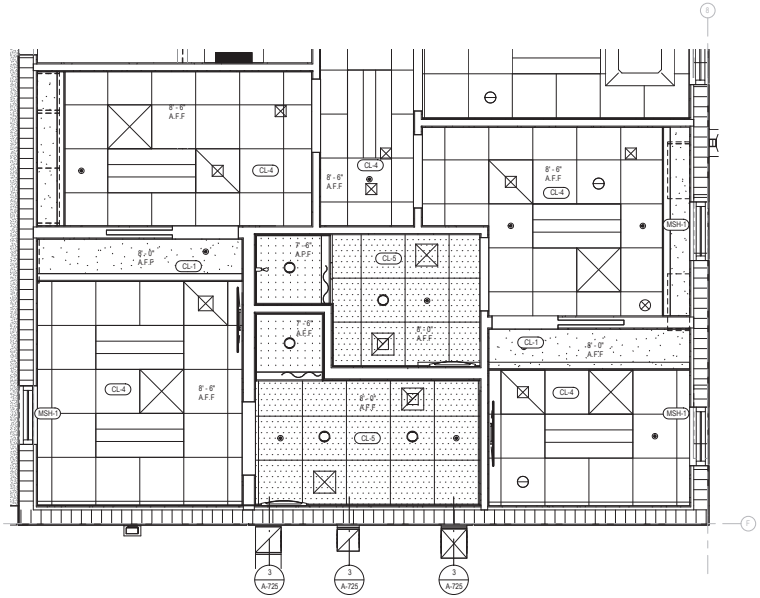
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

MOBILITY DORM - ENLARGED PLANS AND ELEVATIONS

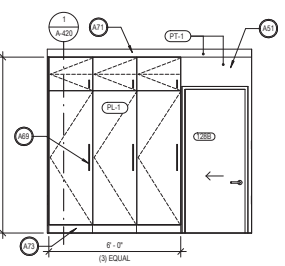
A-402



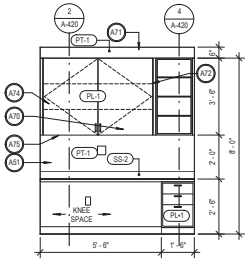
1 CAPTAIN ENLARGED PLAN
3/8" = 1'-0"



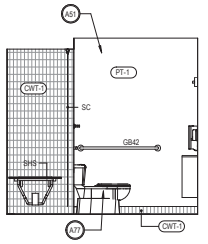
2 CAPTAIN'S DORMS - ENLARGED RCP
3/8" = 1'-0"



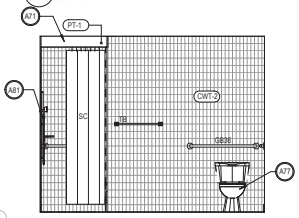
4 128B CAPTAIN'S DORM - NORTH
3/8" = 1'-0"



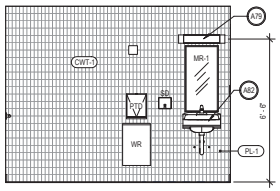
5 128A CAPTAIN'S OFFICE - WEST
3/8" = 1'-0"



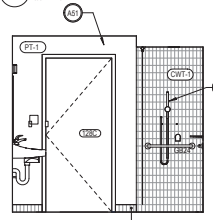
6 128C WC - EAST
3/8" = 1'-0"



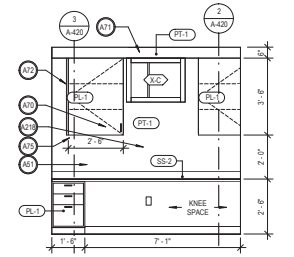
3 128C WC - NORTH
3/8" = 1'-0"



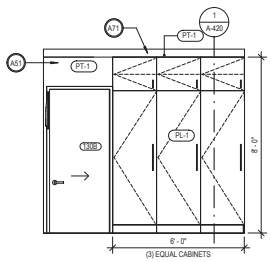
7 128C WC - SOUTH
3/8" = 1'-0"



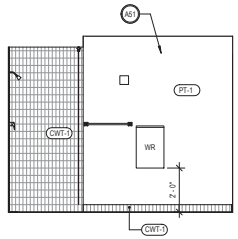
8 128C WC - WEST
3/8" = 1'-0"



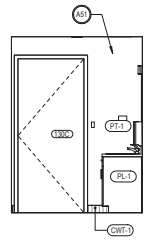
9 130B CAPTAIN'S OFFICE - EAST
3/8" = 1'-0"



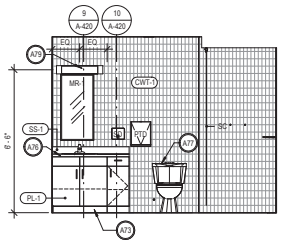
10 130B CAPTAIN'S DORM - NORTH
3/8" = 1'-0"



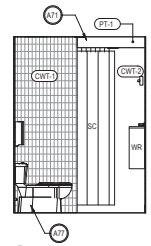
11 130C WC - NORTH
3/8" = 1'-0"



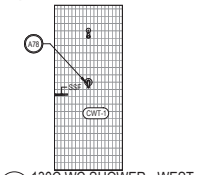
15 130C WC - EAST
3/8" = 1'-0"



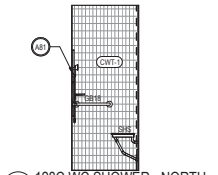
12 130C WC - SOUTH
3/8" = 1'-0"



13 130C WC - WEST
3/8" = 1'-0"



14 130C WC SHOWER - WEST
3/8" = 1'-0"



16 128C WC SHOWER - NORTH
3/8" = 1'-0"

GENERAL NOTES

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7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL, INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS

NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM. MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
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A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A59	224216 FLOOR SINK, REFER TO PLUMBING
A62	123500 STAINLESS STEEL CABINET W/ OPEN SHELVES, REFER TO EQUIPMENT SCHEDULE
A64	QUARTZ PASS-THRU COUNTER, EASED EDGES, REFER TO MILLWORK DETAILS
A66	224216 MOP SINK. REFER TO PLUMBING
A67	086619 INTERIOR SLIDING PASS WINDOW
A69	064116 PLASTIC LAMINATE LOCKERS. 084193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL LOCKERS
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A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.

TOILET ACCESSORY SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
GB12	GRAB BAR 12"	BOBRICK	B-5806	
GB18	GRAB BAR 18"	BOBRICK	B-5806	
GB24	GRAB BAR 24"	BOBRICK	B-5806	
GB36	GRAB BAR 36"	BOBRICK	B-5806	
GB42	GRAB BAR 42"	BOBRICK	B-5806	
GB60	GRAB BAR 60"	BOBRICK	B-5806	
GB66	GRAB BAR 66"	BOBRICK	B-5806	
MR	MIRROR 24" W X 36" H	BOBRICK	B-165	
MR-1	MIRROR 18" W X 36" H	BOBRICK	B-165 Series	
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK	B-4262	
SC	VINYL SHOWER CURTAIN	BOBRICK	B-204-2	INCLUDE HOOKS 204-1, AND ROD B6107
SD	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-4112	
SHS	PHENOLIC FOLDING SHOWER SEAT	BOBRICK	5191	
SSF	9" STAINLESS STEEL CORNER SHELF	GATCO	1470	
TB	24" TOWEL BAR	BOBRICK	B-6747	
TTD	RECESSED TOILET TISSUE HOLDER	BOBRICK	B-663	
WR	WASTE RECEPTACLE SURF. MTD	BOBRICK	B-277	

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

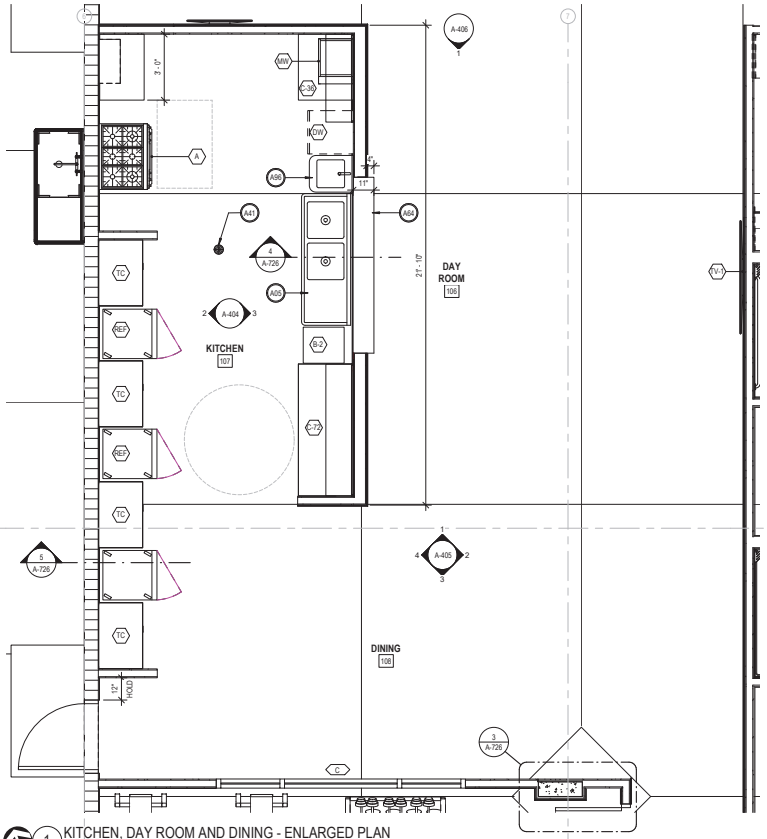
Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

CAPTAIN'S DORMS ENLARGED PLANS AND ELEVATIONS

A-403



EQUIPMENT SCHEDULE -

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
A	GAS RANGE	GE	JGSS66SELSS	GC	GC
B	ICE MAKER AND BIN	SCOTSMAN	B222S	GC	GC
B36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2436	GC	GC
B48	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2448	GC	GC
B72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2472	GC	GC
B-2	ICE MAKER W/ BIN	MANITOWOC	UDE0065A	GC	GC
C-36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3036	GC	GC
C-72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3072	GC	GC
DR-1	DRYER	GE	GFD65GSSNWSPN	GC	GC
DW	FREESTANDING DISHWASHER	GE	GPT225SSLSS	GC	GC
E	PRINTER	BY OWNER		OWNER	GC
F	STAINLESS STEEL MOP AND BROOM HOLDER	BOBRICK	B-223	GC	GC
G-1	READY RACK UNIT	READY RACK		GC	GC
G-2	3 COMPARTMENT - (36) CYLINDER BOTTLE STORAGE	READY RACK	SOS2432-C	GC	GC
GG	GAS GRILL	OWNER	Gas Grill	OWNER	GC
ICE	ICE CUBE MAKER	SCOTSMAN	C0322SA_32B	GC	GC
LAD	ROOF LADDER	O'Keeffe's, Inc.	503	GC	GC
M	ADJUSTABLE BENCH	BY OWNER	BY OWNER	OWNER	GC
MW	MICROWAVE	GE	PES7227SLSS	GC	GC
N	DUMBBELLS RACK	BY OWNER	BY OWNER	OWNER	GC
O	STATIONARY BIKE	BY OWNER	BY OWNER	OWNER	GC

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ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
P	ELLIPTICAL	BY OWNER	BY OWNER	OWNER	GC
Q	TREADMILL	BY OWNER	BY OWNER	OWNER	GC
REF	REF / FREEZER	TRUE FOOD SERVICE EQUIPMENT, INC.	T-23-2-HC	GC	GC
S	SUPPLY CABINET			OWNER	GC
S-48	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
S-72	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
SH	STAINLESS STEEL SHELF	REGENCY	600WS1572	GC	GC
SH2	CABINET WITH OPEN FRONT	EAGLE GROUP	WC024	GC	GC
SH3	CABINET WITH OPEN FRONT	EAGLE GROUP	WC036	GC	GC
SH4	CABINET WITH OPEN FRONT	EAGLE GROUP	WC030	GC	GC
SH36	STAINLESS STEEL SHELF	REGENCY	600WS1536	GC	GC
SH48	STAINLESS STEEL SHELF	REGENCY	600WS1548	GC	GC
SH-1	SOLID STAINLESS STEEL WALL MOUNT SHELVING 60" X 12" X 10"	U-LINE	H-7500	GC	GC
SH-2	6' WIRE STAINLESS STEEL SHELVING	BY OWNER	BY OWNER	GC	GC
SH-24	STAINLESS STEEL SHELF	REGENCY	600WS1224HD	GC	GC
SV	SERVER CABINET	REFER TO AVIT.		GC	GC
TC	FREESTANDING STAINLESS STEEL LOCKABLE CABINET 36"W x 24"D x 72"H	SANDUSKY	SA4D362478-XX	GC	GC
TM	6-DIGIT COUNTDOWN TIMER DISPLAY	MICROFRAME	6300	GC	GC
TV-1	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-2	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-3	LCD TV	BY OWNER	50ES6305U	OWNER	GC
WS-1	WASHER	GE	GFW650SSNSPN	GC	GC
WS-2	WASHER / EXTRACTOR	MILNOR	30015 TEX	GC	GC

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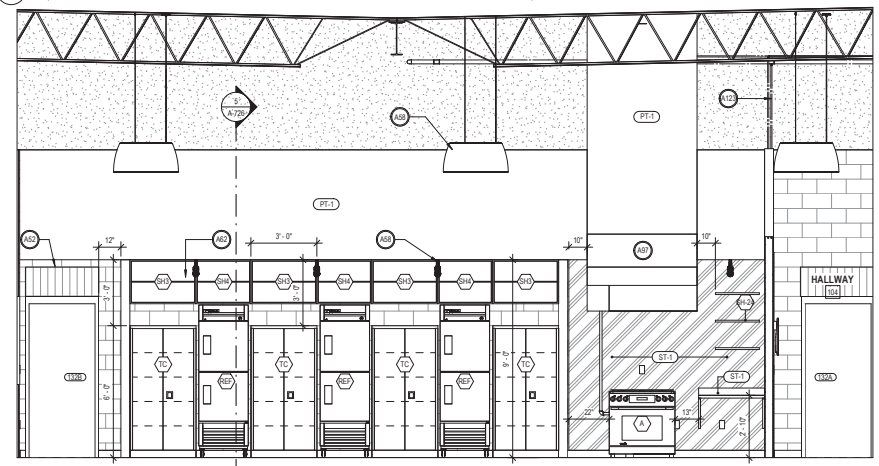
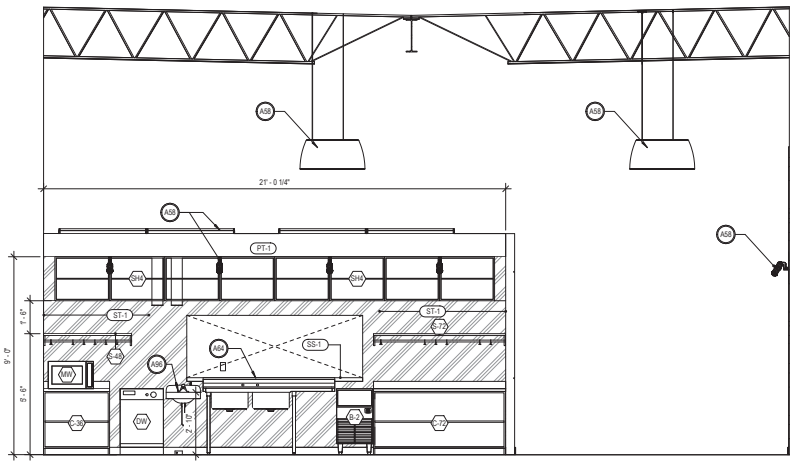
1 KITCHEN, DAY ROOM AND DINING - ENLARGED PLAN
3/8" =1'-0"



2 107 KITCHEN - WEST ELEVATION
3/8" = 1'-0"



3 107 KITCHEN - SOUTH ELEVATION
3/8" = 1'-0"

Wannemacher Jensen Architects, Inc.
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HERNANDO COUNTY FIRE STATION #5

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REV 1 COUNTY COMMENTS	10/28/20
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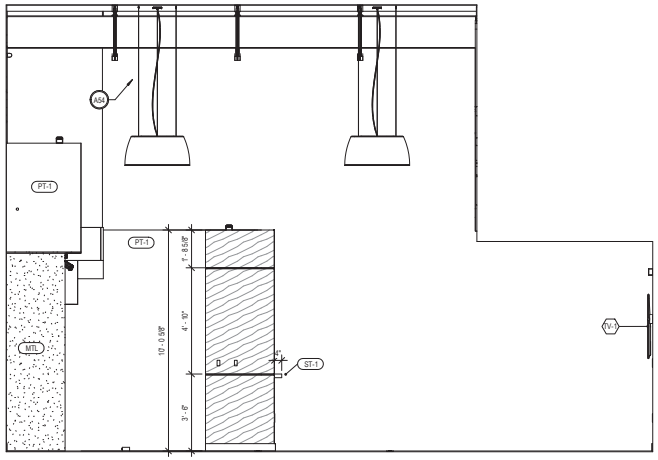
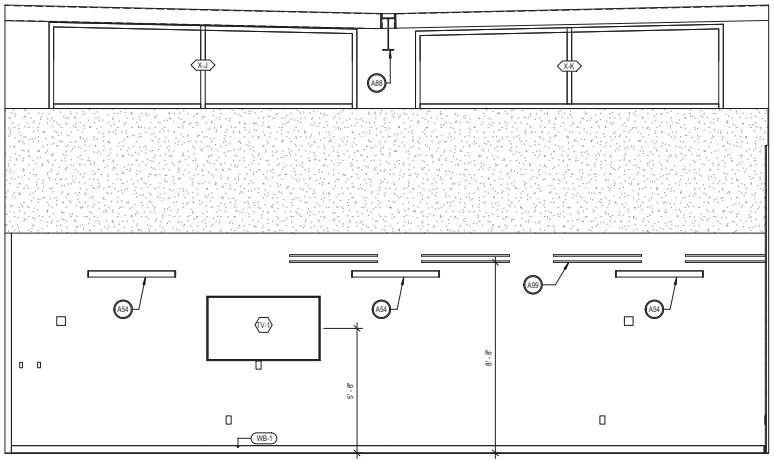
ENLARGED FLOOR PLANS AND ELEVATIONS

A-404



1 107 KITCHEN AND 106 DAY ROOM - NORTH
3/8" = 1'-0"



2 106 DAY ROOM - EAST
3/8" = 1'-0"

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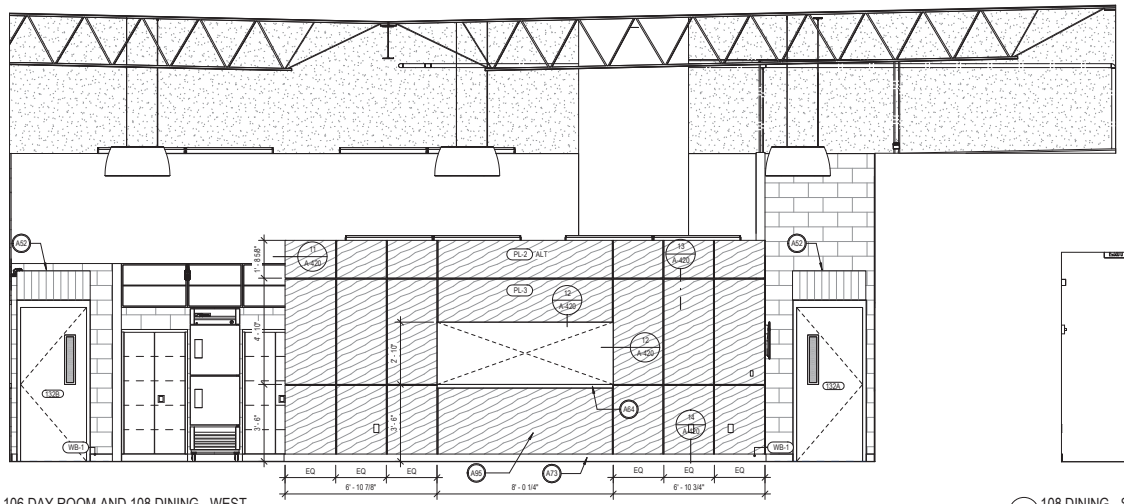
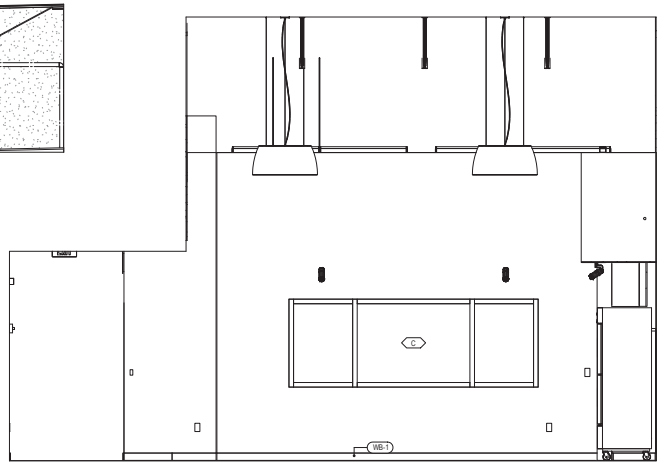
A71	092116 PAINTED GYPSUM BOARD SOFFIT
A72	064116 ADJUSTABLE SHELVES ON METAL PINS
A73	096513 CONTOURED VINYL WALL BASE AT TOEKICK
A74	123623 PLASTIC LAMINATE CABINET FILLER
A75	064116 PROVIDE VALANCE TO CONCEAL LED UNDERCABINET LIGHTING
A76	123661 SOLID SURFACE COUNTERTOP. EASED EDGES W/ 4" BACKSPLASH
A77	224213 FLOOR MOUNTED TOILET, REFER TO PLUMBING
A78	224239 SHOWER TRIM KIT, REFER TO PLUMBING
A79	265119 VANITY LIGHT FIXTURE CENTERED ABOVE MIRROR, REFER TO ELECTRICAL
A80	224216 UNDERMOUNT LAVATORY, REFER TO PLUMBING
A81	224239 ADA SHOWER TRIM KIT, REFER TO PLUMBING
A82	224216 ADA WALL MOUNT LAVATORY, REFER TO PLUMBING
A83	123500 STAINLESS STEEL OPEN SHELVES
A84	BUILT-IN PULL DOWN MURPHY BEDS
A88	051200 PAINTED STEEL BEAM, SEE STRUCTURAL
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A95	097200 DECORATIVE WALL PROTECTION, REFER TO MILLWORK DETAILS
A96	224200 ADA WALL MOUNT STAINLESS STEEL SINK, REFER TO PLUMBING
A97	233416 KITCHEN HOOD. DUCTWORK SHAFT PAINTED GYP ENCLOSURE. REFER TO MECHANICAL
A98	064116 BUILT- IN SHELVES
A99	LINEAR DIFUSSERS. REFER TO MECHANICAL
A123	PAINT ALL EXPOSED CONDUIT AND PIPING THROUGHOUT
A203	FOR ALTERNATE PANELING DETAILS, SEE MILLWORK SHEET A-420
A204	PROVIDE FILLER, COLOR TO MATCH
A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.



4 106 DAY ROOM AND 108 DINING - WEST
3/8" = 1'-0"



3 108 DINING - SOUTH
3/8" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

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Project number
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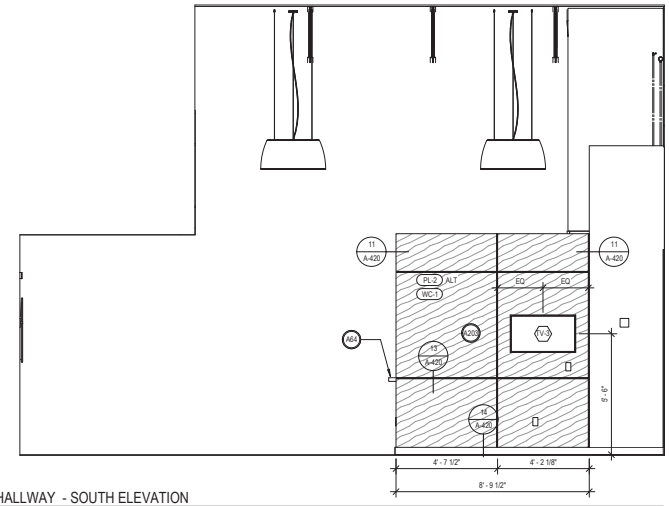
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

INTERIOR ELEVATIONS

A-405



1 104 HALLWAY - SOUTH ELEVATION
3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G-104 FOR BATHROOM FIXTURE MOUNTING HEIGHTS AND INFORMATION.
2. REFER TO FINISH PLANS FOR SPECIFIC FINISHES ON SHEET ID-101
3. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
4. TOILET PARTITIONS TO BE FLOOR MOUNTED, PARTITIONS SHOULD HAVE A CONTINUOUS PLASTIC WALL BRACKET, PLASTIC SHOES, AND A CONTINUOUS HINGE.
4. ALIGN CENTER OF MIRRORS AND VANITY LIGHT WITH CENTERLINE OF LAVATORIES, TYP. U.N.O.
5. MANUFACTURERS NOTED IN ACCESSORY AND FIXTURES LEGEND TO BE USED AS BASIS OF DESIGN, UNLESS NOTED OTHERWISE. PLEASE SEE PLUMBING SCHEDULE FOR REFERENCE.
6. ALL TOILET ACCESSORIES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL. INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS

NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
A40	221319 LINEAR FLOOR DRAIN AT CURBLESS TILED SHOWER, REFER TO PLUMBING
A41	221319 FLOOR DRAIN, REFER TO PLUMBING
A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN, REFER TO STRUCTURAL
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A59	224216 FLOOR SINK, REFER TO PLUMBING
A62	123500 STAINLESS STEEL CABINET W/ OPEN SHELVES, REFER TO EQUIPMENT SCHEDULE
A64	QUARTZ PASS-THRU COUNTER, EASED EDGES, REFER TO MILLWORK DETAILS
A66	224216 MOP SINK, REFER TO PLUMBING
A67	089819 INTERIOR SLIDING PASS WINDOW
A69	064116 PLASTIC LAMINATE LOCKERS. 064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL LOCKERS
A70	064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL CABINETS AND DRAWERS
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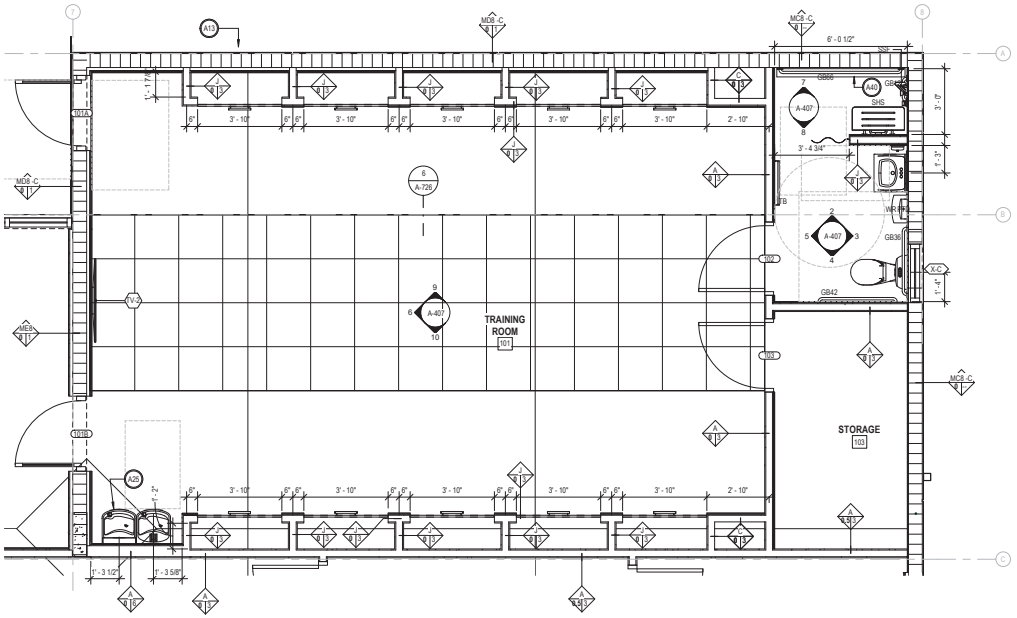
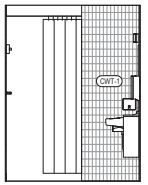
INTERIOR ELEVATIONS

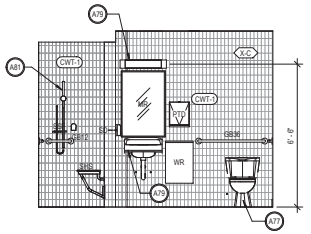
A-406



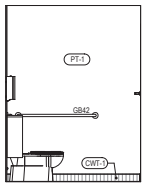
1 101 TRAINING ROOM, 102 WC, AND 103 STORAGE- PLAN
3/8" = 1'-0"



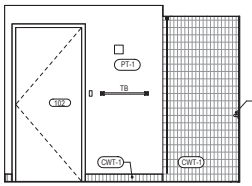
2 102 WC - NORTH
3/8" = 1'-0"



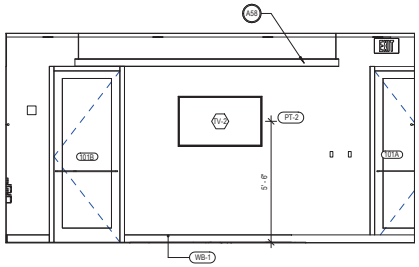
3 102 WC - EAST
3/8" = 1'-0"



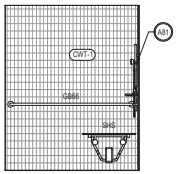
4 102 WC - SOUTH
3/8" = 1'-0"



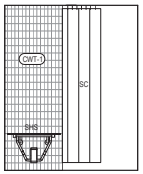
5 102 WC - WEST
3/8" = 1'-0"



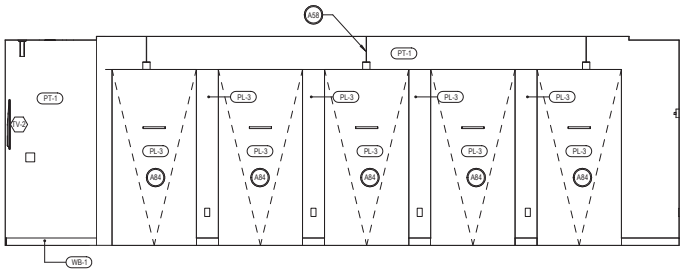
6 101 TRAINING ROOM - WEST
3/8" = 1'-0"



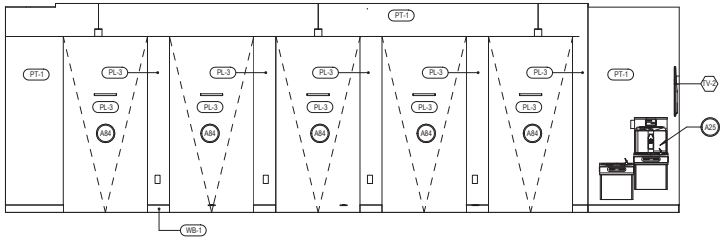
7 102 WC SHOWER - NORTH
3/8" = 1'-0"



8 102 WC SHOWER - SOUTH
3/8" = 1'-0"



9 101 TRAINING ROOM - NORTH ELEVATION
3/8" = 1'-0"



10 101 TRAINING ROOM - SOUTH ELEVATION
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A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.

TOILET ACCESSORY SCHEDULE

TYPE MARK	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
GB12	GRAB BAR 12"	BOBRICK	B-5806	
GB18	GRAB BAR 18"	BOBRICK	B-5806	
GB24	GRAB BAR 24"	BOBRICK	B-5806	
GB36	GRAB BAR 36"	BOBRICK	B-5806	
GB42	GRAB BAR 42"	BOBRICK	B-5806	
GB60	GRAB BAR 60"	BOBRICK	B-5806	
GB66	GRAB BAR 66"	BOBRICK	B-5806	
MR	MIRROR 24" W X 36" H	BOBRICK	B-165	
MR-1	MIRROR 18" W X 36" H	BOBRICK	B-165 Series	
PTD	SURFACE MOUNTED PAPER TOWEL DISPENSER	BOBRICK	B-4262	
SC	VINYL SHOWER CURTAIN	BOBRICK	B-204-2	INCLUDE HOOKS 204-1, AND ROD B6107
SD	SURFACE MOUNTED SOAP DISPENSER	BOBRICK	B-4112	
SHS	PHENOLIC FOLDING SHOWER SEAT	BOBRICK	5191	
SSF	9" STAINLESS STEEL CORNER SHELF	GATCO	1470	
TB	24" TOWEL BAR	BOBRICK	B-6747	
TTD	RECESSED TOILET TISSUE HOLDER	BOBRICK	B-663	
WR	WASTE RECEPTACLE SURF. MTD.	BOBRICK	B-277	

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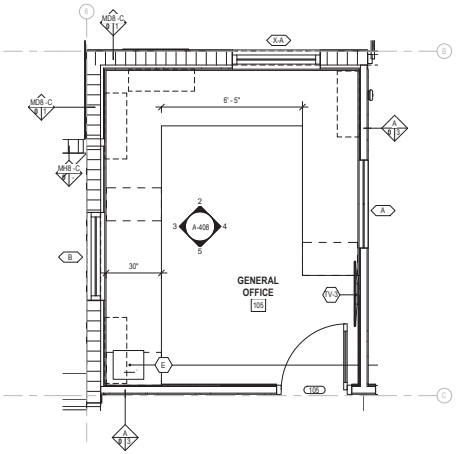
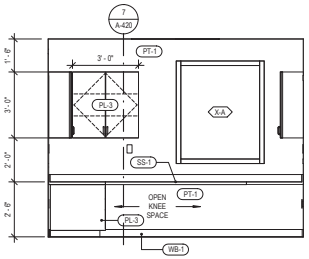
ENLARGED FLOOR PLANS AND ELEVATIONS

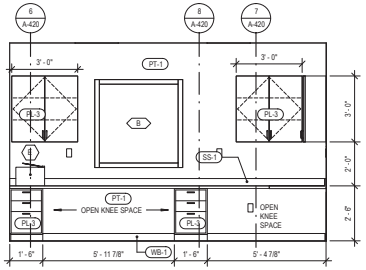
A-407



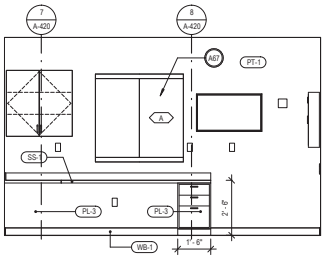
1 105 GENERAL OFFICE - ENLARGED PLAN
3/8" = 1'-0"



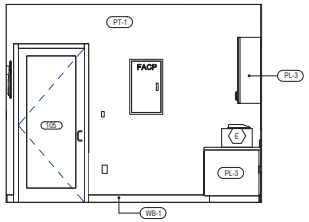
2 105 GENERAL OFFICE - NORTH
3/8" = 1'-0"



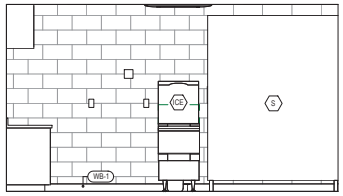
3 105 GENERAL OFFICE - WEST
3/8" = 1'-0"



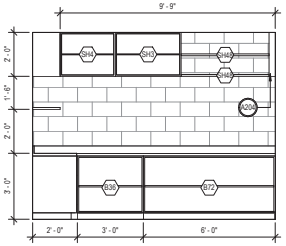
4 105 GENERAL OFFICE - EAST
3/8" = 1'-0"



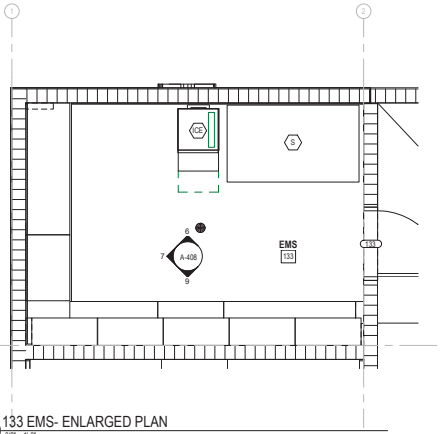
5 105 GENERAL OFFICE - SOUTH
3/8" = 1'-0"



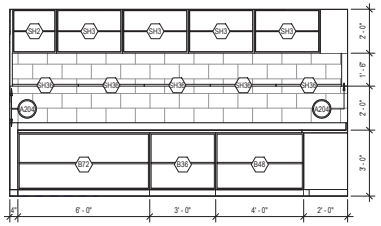
6 1133 EMS- NORTH
3/8" = 1'-0"



7 133 EMS- WEST
3/8" = 1'-0"



8 133 EMS- ENLARGED PLAN
3/8" = 1'-0"



9 133 EMS- SOUTH
3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G-104 FOR BATHROOM FIXTURE MOUNTING HEIGHTS AND INFORMATION.
2. REFER TO FINISH PLANS FOR SPECIFIC FINISHES ON SHEET ID-101
3. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
4. TOILET PARTITIONS TO BE FLOOR MOUNTED, PARTITIONS SHOULD HAVE A CONTINUOUS PLASTIC WALL BRACKET, PLASTIC SHOES, AND A CONTINUOUS HINGE.
4. ALIGN CENTER OF MIRRORS AND VANITY LIGHT WITH CENTERLINE OF LAVATORIES, TYP. U.N.O.
5. MANUFACTURERS NOTED IN ACCESSORY AND FIXTURES LEGEND TO BE USED AS BASIS OF DESIGN, UNLESS NOTED OTHERWISE. PLEASE SEE PLUMBING SCHEDULE FOR REFERENCE.
6. ALL TOILET ACCESSORIES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL, INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS

NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A05	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 Bi-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
A40	221319 LINEAR FLOOR DRAIN AT CURBLESS TILED SHOWER. REFER TO PLUMBING
A41	221319 FLOOR DRAIN, REFER TO PLUMBING
A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN. REFER TO STRUCTURAL
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A59	224216 FLOOR SINK. REFER TO PLUMBING
A62	123500 STAINLESS STEEL CABINET W/ OPEN SHELVES, REFER TO EQUIPMENT SCHEDULE
A64	QUARTZ PASS-THRU COUNTER, EASED EDGES, REFER TO MILLWORK DETAILS
A66	224216 MOP SINK. REFER TO PLUMBING
A67	085619 INTERIOR SLIDING PASS WINDOW
A69	064116 PLASTIC LAMINATE LOCKERS. 064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL LOCKERS
A70	064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL CABINETS AND DRAWERS.
A71	092116 PAINTED GYPSUM BOARD SOFFIT
A72	064116 ADJUSTABLE SHELVES ON METAL PINS
A73	096513 CONTOURED VINYL WALL BASE AT TOEKICK
A74	123623 PLASTIC LAMINATE CABINET FILLER
A75	064116 PROVIDE VALANCE TO CONCEAL LED UNDERCABINET LIGHTING
A76	123661 SOLID SURFACE COUNTERTOP, EASED EDGES W/ 4" BACKSPLASH
A77	224213 FLOOR MOUNTED TOILET, REFER TO PLUMBING
A78	224239 SHOWER TRIM KIT, REFER TO PLUMBING
A79	265119 VANITY LIGHT FIXTURE CENTERED ABOVE MIRROR, REFER TO ELECTRICAL
A80	224216 UNDERMOUNT LAVATORY, REFER TO PLUMBING
A81	224239 ADA SHOWER TRIM KIT, REFER TO PLUMBING
A82	224216 ADA WALL MOUNT LAVATORY, REFER TO PLUMBING
A83	123500 STAINLESS STEEL OPEN SHELVES
A84	BUILT-IN PULL DOWN MURPHY BEDS
A88	051200 PAINTED STEEL BEAM, SEE STRUCTURAL
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A95	097200 DECORATIVE WALL PROTECTION, REFER TO MILLWORK DETAILS
A96	224200 ADA WALL MOUNT STAINLESS STEEL SINK, REFER TO PLUMBING
A97	233416 KITCHEN HOOD. DUCTWORK SHAFT PAINTED GYP ENCLOSURE. REFER TO MECHANICAL
A98	064116 BUILT- IN SHELVES
A99	LINEAR DIFUSSERS. REFER TO MECHANICAL
A123	PAINT ALL EXPOSED CONDUIT AND PIPING THROUGHOUT
A203	FOR ALTERNATE PANELING DETAILS, SEE MILLWORK SHEET A-420
A204	PROVIDE FILLER, COLOR TO MATCH
A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS.
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.

EQUIPMENT SCHEDULE -

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
A	GAS RANGE	GE	JGSS66SELSS	GC	GC
B	ICE MAKER AND BIN	SCOTSMAN	B222S	GC	GC
B36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2436	GC	GC
B48	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2448	GC	GC
B72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2472	GC	GC
B-2	ICE MAKER W/ BIN	MANITOWOC	UDE0065A	GC	GC
C-36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3036	GC	GC
C-72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3072	GC	GC
DR-1	DRYER	GE	GFD65GSSN/GSPN	GC	GC
DW	FREESTANDING DISHWASHER	GE	GPT225SSLSS	GC	GC
E	PRINTER	BY OWNER		OWNER	GC
F	STAINLESS STEEL MOP AND BROOM HOLDER	BOBRICK	B-223	GC	GC
G-1	READY RACK UNIT	READY RACK		GC	GC
G-2	3 COMPARTMENT - (36) CYLINDER BOTTLE STORAGE	READY RACK	SOS2432-C	GC	GC
GG	GAS GRILL	OWNER	Gas Grill	OWNER	GC
ICE	ICE CUBE MAKER	SCOTSMAN	C0322SA_32B	GC	GC
LAD	ROOF LADDER	O'Keeffe's, Inc.	503	GC	GC
M	ADJUSTABLE BENCH	BY OWNER	BY OWNER	OWNER	GC
MW	MICROWAVE	GE	PES7227SLSS	GC	GC
N	DUMBBELLS RACK	BY OWNER	BY OWNER	OWNER	GC
O	STATIONARY BIKE	BY OWNER	BY OWNER	OWNER	GC

EQUIPMENT SCHEDULE -

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
P	ELLIPTICAL	BY OWNER	BY OWNER	OWNER	GC
Q	TREADMILL	BY OWNER	BY OWNER	OWNER	GC
REF	REF / FREEZER	TRUE FOOD SERVICE EQUIPMENT, INC.	T-23-2-HC	GC	GC
S	SUPPLY CABINET			OWNER	GC
S-48	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
S-72	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
SH	STAINLESS STEEL SHELF	REGENCY	600WS1572	GC	GC
SH2	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO24	GC	GC
SH3	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO36	GC	GC
SH4	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO30	GC	GC
SH36	STAINLESS STEEL SHELF	REGENCY	600WS1536	GC	GC
SH48	STAINLESS STEEL SHELF	REGENCY	600WS1548	GC	GC
SH-1	SOLID STAINLESS STEEL WALL MOUNT SHELVING 60" X 12" X 10"	ULINE	H-7500	GC	GC
SH-2	6' WIRE STAINLESS STEEL SHELVING	BY OWNER	BY OWNER	GC	GC
SH-24	STAINLESS STEEL SHELF	REGENCY	600WS1224HD	GC	GC
SV	SERVER CABINET	REFER TO AV/IT		GC	GC
TC	FREESTANDING STAINLESS STEEL LOCKABLE CABINET 36"W x 24"D x 72"H	SANDUSKY	SA4D362478-XX	GC	GC
TM	6-DIGIT COUNTDOWN TIMER DISPLAY	MICROFRAME	6300	GC	GC
TV-1	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-2	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-3	LCD TV	BY OWNER	50ES6305U	OWNER	GC
WS-1	WASHER	GE	GFW650SSN/SPN	GC	GC
WS-2	WASHER / EXTRACTOR	MILNOR	30015 TEX	GC	GC

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AA0002277

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

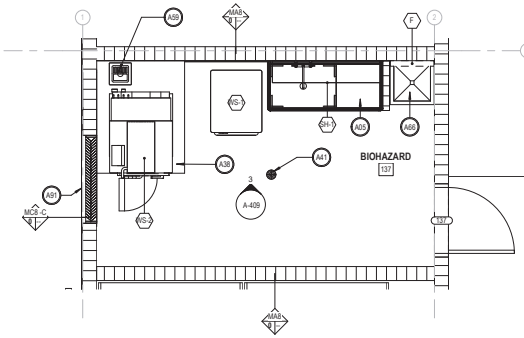
Project number
1932

DISTRIBUTION

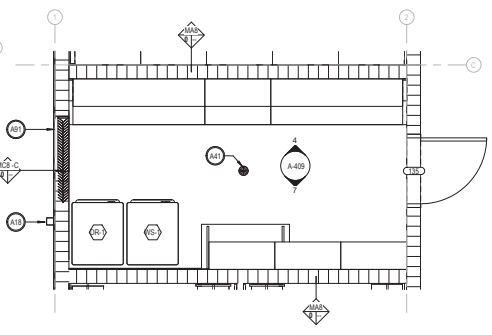
MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

ENLARGED FLOOR PLANS AND ELEVATIONS

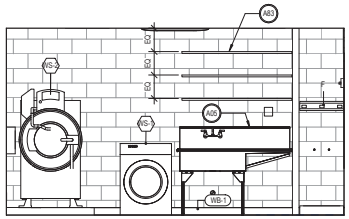
A-408



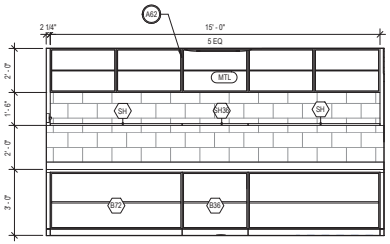
1 137 BIOHAZARD - PLAN
3/8" = 1'-0"



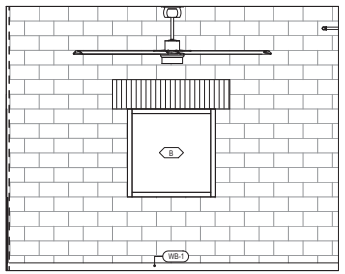
2 135 LAUNDRY - PLAN
3/8" = 1'-0"



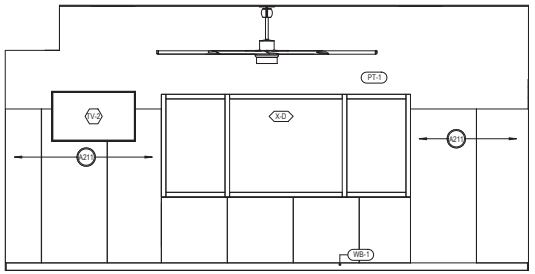
3 137 BIOHAZARD - NORTH
3/8" = 1'-0"



4 135 LAUNDRY - NORTH
3/8" = 1'-0"



5 107 FITNESS - WEST
3/8" = 1'-0"



6 107 FITNESS - SOUTH
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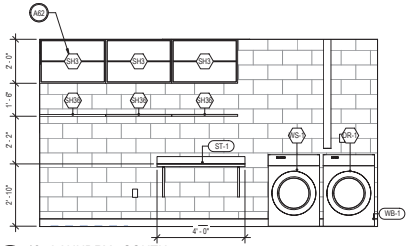

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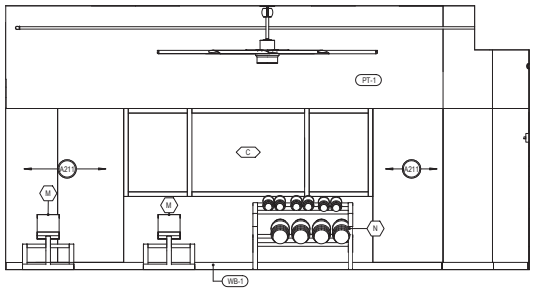

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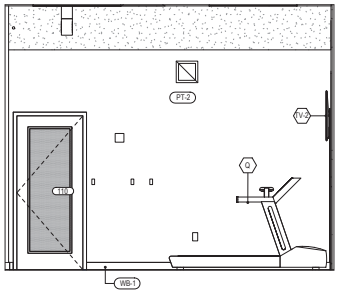

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B	ICE MAKER AND BIN	SCOTSMAN	B222S	GC	GC
B36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2436	GC	GC
B48	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2448	GC	GC
B72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB2472	GC	GC
B-2	ICE MAKER W/ BIN	MANITOWOC	UDE0065A	GC	GC
C-36	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3036	GC	GC
C-72	18 GA. STAINLESS STEEL ENCLOSED BASE CABINET TABLE W/ 6" BACKSPLASH	REGENCY	600EBTB3072	GC	GC
DR-1	DRYER	GE	GFD65GSSN/GSPN	GC	GC
DW	FREESTANDING DISHWASHER	GE	GPT225SSLSS	GC	GC
E	PRINTER	BY OWNER		OWNER	GC
F	STAINLESS STEEL MOP AND BROOM HOLDER	BOBRICK	B-223	GC	GC
G-1	READY RACK UNIT	READY RACK		GC	GC
G-2	3 COMPARTMENT - (36) CYLINDER BOTTLE STORAGE	READY RACK	SOS2432-C	GC	GC
GG	GAS GRILL	OWNER	Gas Grill	OWNER	GC
ICE	ICE CUBE MAKER	SCOTSMAN	C0322SA_32B	GC	GC
LAD	ROOF LADDER	O'Keeffe's, Inc.	503	GC	GC
M	ADJUSTABLE BENCH	BY OWNER	BY OWNER	OWNER	GC
MW	MICROWAVE	GE	PES7227SLSS	GC	GC
N	DUMBBELLS RACK	BY OWNER	BY OWNER	OWNER	GC
O	STATIONARY BIKE	BY OWNER	BY OWNER	OWNER	GC

EQUIPMENT SCHEDULE -

ITEM #	DESCRIPTION	MANUFACTURER	MODEL #	PROVIDED BY	INSTALLED BY
P	ELLIPTICAL	BY OWNER	BY OWNER	OWNER	GC
Q	TREADMILL	BY OWNER	BY OWNER	OWNER	GC
REF	REF / FREEZER	TRUE FOOD SERVICE EQUIPMENT, INC.	T-23-2-HC	GC	GC
S	SUPPLY CABINET			OWNER	GC
S-48	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
S-72	STAINLESS STEEL POT RACK W/ SHELF + HOOKS	REGENCY	600PS1272	GC	GC
SH	STAINLESS STEEL SHELF	REGENCY	600WS1572	GC	GC
SH2	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO24	GC	GC
SH3	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO36	GC	GC
SH4	CABINET WITH OPEN FRONT	EAGLE GROUP	WCO30	GC	GC
SH36	STAINLESS STEEL SHELF	REGENCY	600WS1536	GC	GC
SH48	STAINLESS STEEL SHELF	REGENCY	600WS1548	GC	GC
SH-1	SOLID STAINLESS STEEL WALL MOUNT SHELVING 60" X 12" X 10"	ULINE	H-7500	GC	GC
SH-2	9' WIRE STAINLESS STEEL SHELVING	BY OWNER	BY OWNER	GC	GC
SH-24	STAINLESS STEEL SHELF	REGENCY	600WS1224HD	GC	GC
SV	SERVER CABINET	REFER TO AVIT		GC	GC
TC	FREESTANDING STAINLESS STEEL LOCKABLE CABINET 36"W x 24"D x 72"H	SANDUSKY	SA4D362478-XX	GC	GC
TM	6-DIGIT COUNTDOWN TIMER DISPLAY	MICROFRAME	6300	GC	GC
TV-1	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-2	LCD TV	BY OWNER	50ES6305U	OWNER	GC
TV-3	LCD TV	BY OWNER	50ES6305U	OWNER	GC
WS-1	WASHER	GE	GFW850SSN/SPN	GC	GC
WS-2	WASHER / EXTRACTOR	MILNOR	30015 T6X	GC	GC

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

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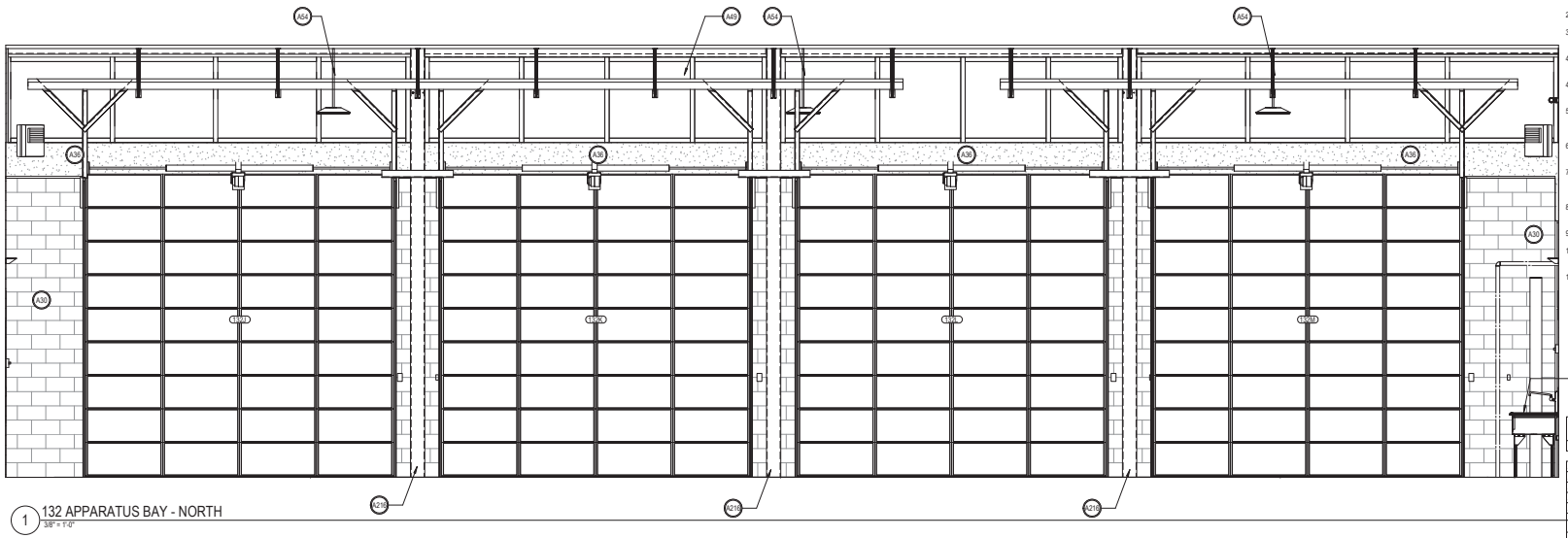
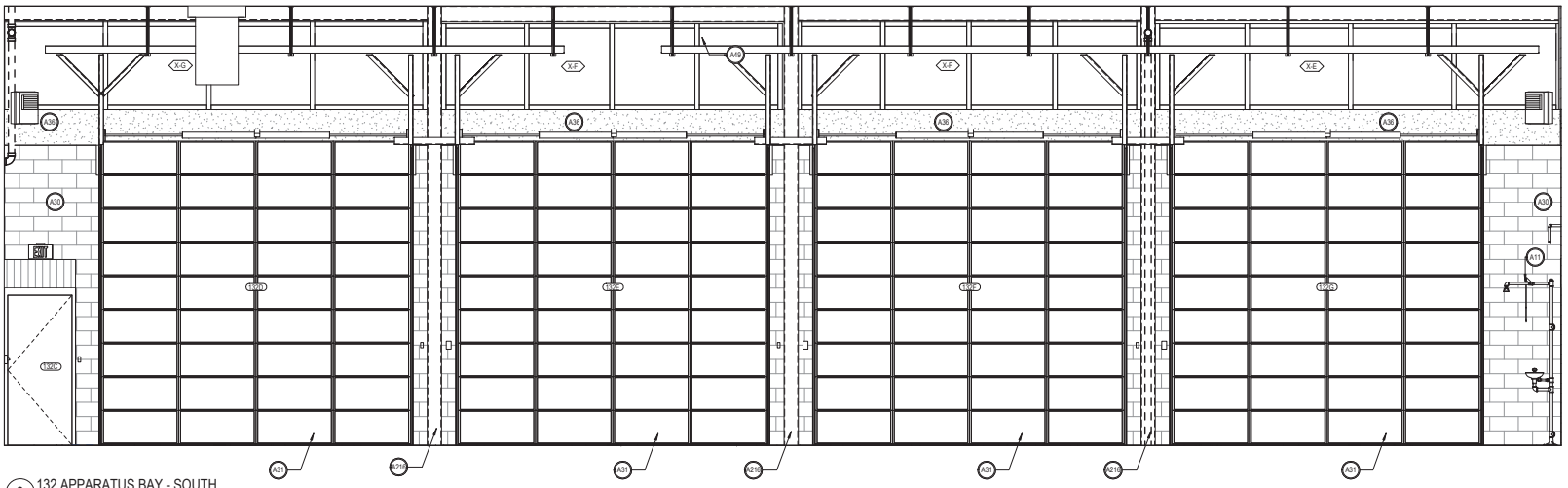
ENLARGED FLOOR PLANS AND ELEVATIONS

A-409



1 132 APPARATUS BAY - NORTH
3/8" = 1'-0"



2 132 APPARATUS BAY - SOUTH
3/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G-104 FOR BATHROOM FIXTURE MOUNTING HEIGHTS AND INFORMATION.
2. REFER TO FINISH PLANS FOR SPECIFIC FINISHES ON SHEET ID-101
3. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
4. TOILET PARTITIONS TO BE FLOOR MOUNTED, PARTITIONS SHOULD HAVE A CONTINUOUS PLASTIC WALL BRACKET, PLASTIC SHOES, AND A CONTINUOUS HINGE.
4. ALIGN CENTER OF MIRRORS AND VANITY LIGHT WITH CENTERLINE OF LAVATORIES, TYP. U.N.O.
5. MANUFACTURERS NOTED IN ACCESSORY AND FIXTURES LEGEND TO BE USED AS BASIS OF DESIGN, UNLESS NOTED OTHERWISE. PLEASE SEE PLUMBING SCHEDULE FOR REFERENCE.
6. ALL TOILET ACCESSORIES TO BE FURNISHED AND INSTALLED BY CONTRACTOR, UNLESS OTHERWISE NOTED.
7. CONTRACTOR TO PROVIDE PRESSURE TREATED WOOD BLOCKING INSIDE WALL PARTITIONS FOR ALL FIXTURES (AS REQUIRED AS PER CONSTRUCTION AND/ OR MANUFACTURER).
8. PROVIDE COAT HOOKS AT EVERY TOILET STALL, INSTALL AT 48" A.F.F. UNLESS NOTED OTHERWISE.
9. FOLLOW ALL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
10. START TILE AS DEPICTED ON ELEVATIONS AND ALIGN GROUT JOINTS IN FLOOR TILE WITH GROUT JOINTS WITH WALL TILE.
11. PAINT ALL EXPOSED STEEL STRUCTURE AND ALL OTHER EXPOSED SURFACES THAT ARE NOT PREFINISHED OR INTEGRALLY COLORED SUCH AS CONDUIT, DUCTS, PIPES, RECEPTACLES ETC. EXCEPT IN CONCEALED SPACES INCLUDING MECHANICAL ROOMS, JANITOR CLOSETS, AND ELECTRICAL ROOMS.

SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS	
NUMBER	TEXT
A05	224200 SCULLERY SINK, REFER TO PLUMBING
A06	PROVIDE SWING BRACKET FOR TV
A18	077133 SCUPPER WITH DOWNSPOUT
A25	224713 BI-LEVEL WATER FOUNTAIN, REFER TO PLUMBING
A26	MECHANICAL EQUIPMENT, REFER TO MECHANICAL
A31	083613 HURRICANE RATED SECTIONAL GLASS DOOR, COLOR: TO MATCH STOREFRONT TYP.
A33	084313 ALUMINUM STOREFRONT GLAZING SYSTEM, MISSILE LEVEL E IMPACT RATED
A38	033000 4" HOUSEKEEPING PAD
A40	221319 LINEAR FLOOR DRAIN AT CURBLESS TILED SHOWER, REFER TO PLUMBING
A41	221319 FLOOR DRAIN, REFER TO PLUMBING
A42	033053 CONCRETE WALL, RUB DOWN SEALED FINISH, TYP.
A43	051200 STRUCTURAL COLUMN, REFER TO STRUCTURAL
A51	092116 PAINTED GYPSUM BOARD
A52	042113 SOLDIER COURSE STRUCTURAL COLORED BRICK LINTEL
A54	265619 EXTERIOR LED LIGHT FIXTURE, SEE ELECTRICAL. CONCEAL ALL CONDUIT.
A56	DUCTWORK, REFER TO MECHANICAL
A58	265119 INTERIOR LIGHT FIXTURE, SEE ELECTRICAL
A59	224216 FLOOR SINK, REFER TO PLUMBING
A62	123500 STAINLESS STEEL CABINET W/ OPEN SHELVES, REFER TO EQUIPMENT SCHEDULE
A64	QUARTZ PASS-THRU COUNTER, EASED EDGES, REFER TO MILLWORK DETAILS
A66	224216 MOP SINK, REFER TO PLUMBING
A67	085819 INTERIOR SLIDING PASS WINDOW
A69	064116 PLASTIC LAMINATE LOCKERS. 064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL LOCKERS
A70	064193 PROVIDE CYLINDER LOCKS WITH MASTER KEY FOR ALL CABINETS AND DRAWERS
A71	092116 PAINTED GYPSUM BOARD SOFFIT
A72	064116 ADJUSTABLE SHELVES ON METAL PINS
A73	096513 CONTOURED VINYL WALL BASE AT TOEKICK
A74	123623 PLASTIC LAMINATE CABINET FILLER
A75	064116 PROVIDE VALANCE TO CONCEAL LED UNDERCABINET LIGHTING
A76	123661 SOLID SURFACE COUNTERTOP, EASED EDGES W/ 4" BACKSPLASH
A77	224213 FLOOR MOUNTED TOILET, REFER TO PLUMBING
A78	224239 SHOWER TRIM KIT, REFER TO PLUMBING
A79	265119 VANITY LIGHT FIXTURE CENTERED ABOVE MIRROR, REFER TO ELECTRICAL
A80	224216 UNDERMOUNT LAVATORY, REFER TO PLUMBING
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A82	224216 ADA WALL MOUNT LAVATORY, REFER TO PLUMBING
A83	123500 STAINLESS STEEL OPEN SHELVES
A84	BUILT-IN PULL DOWN MURPHY BEDS
A88	051200 PAINTED STEEL BEAM, SEE STRUCTURAL
A91	089119 48"x 12" LOUVER, REFER TO MECHANICAL
A95	097200 DECORATIVE WALL PROTECTION, REFER TO MILLWORK DETAILS
A96	224200 ADA WALL MOUNT STAINLESS STEEL SINK, REFER TO PLUMBING
A97	233416 KITCHEN HOOD. DUCTWORK SHAFT PAINTED GYP ENCLOSURE. REFER TO MECHANICAL
A98	064116 BUILT- IN SHELVES
A99	LINEAR DIFUSSERS, REFER TO MECHANICAL
A123	PAINT ALL EXPOSED CONDUIT AND PIPING THROUGHOUT
A203	FOR ALTERNATE PANELING DETAILS, SEE MILLWORK SHEET A-420
A204	PROVIDE FILLER, COLOR TO MATCH
A211	FLAT POLISHED GYM MIRRORS, LOW IRON + TEMPERED GLASS WITH CLIPS AND J BARS, SEE SPECS
A216	051200 PAINTED STEEL COLUMN, SEE STRUCTURAL
A218	ELECTRICAL RECEPTACLE TO MATCH WALL PAINT COLOR TYP.

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HERNANDO COUNTY FIRE STATION #5

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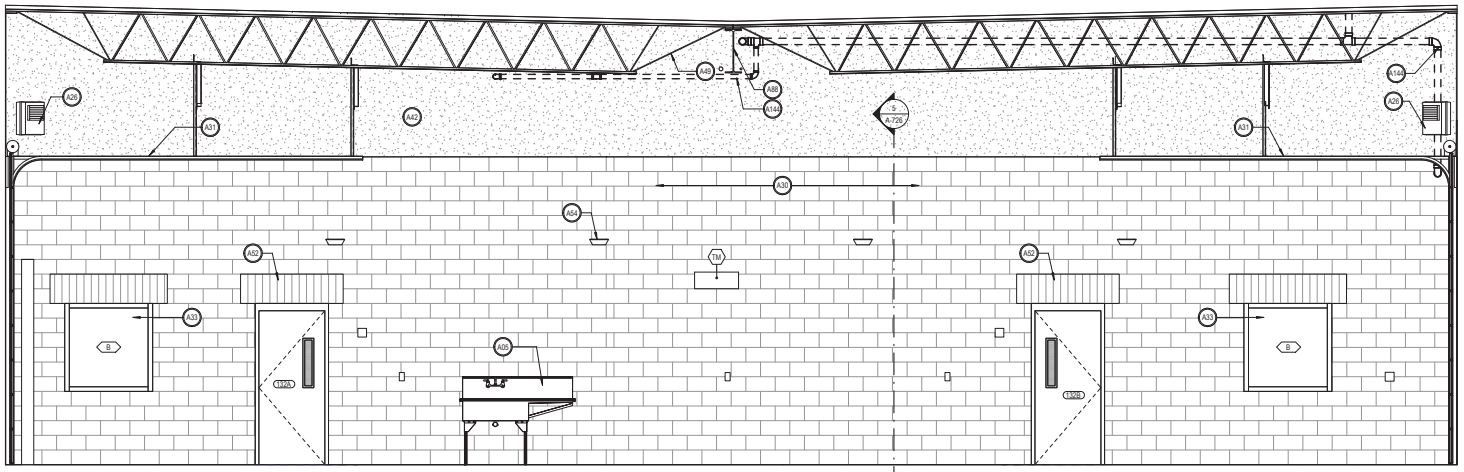
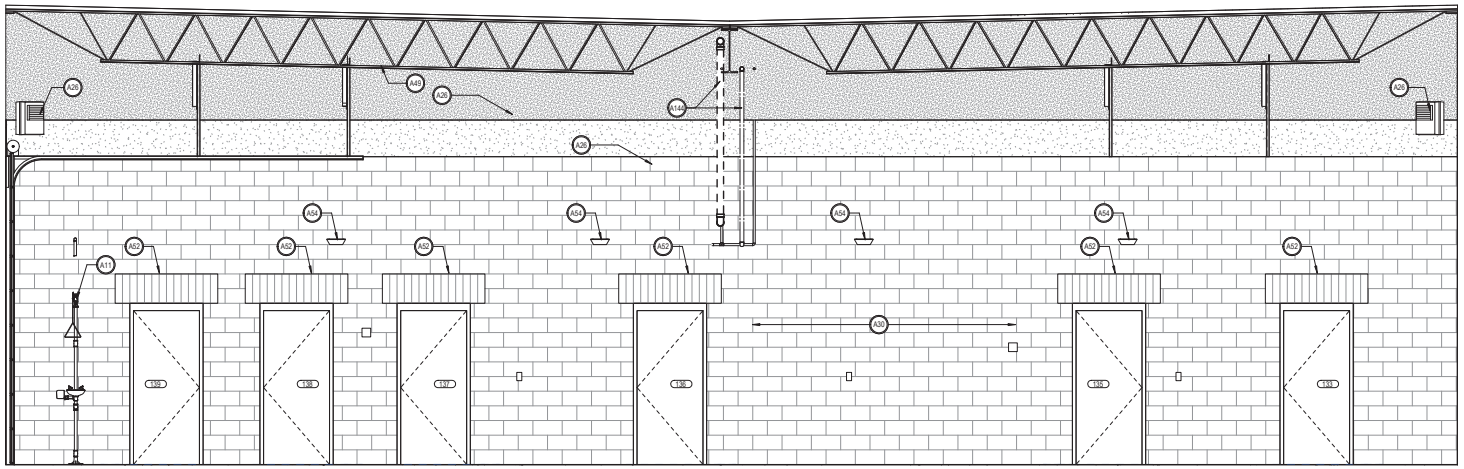
INTERIOR ELEVATIONS

A-410



1 132 APPARATUS BAY - EAST
3/8" = 1'-0"



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SPECIFIC KEYNOTES - ENLARGED PLANS & INTERIOR ELEVATIONS

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INTERIOR ELEVATIONS

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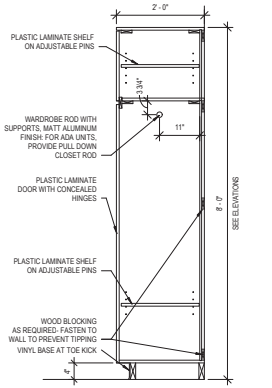
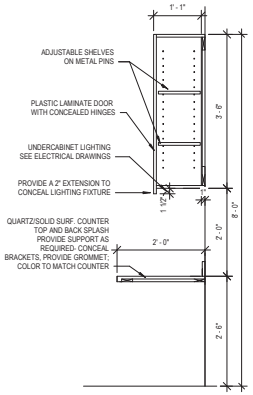


NOTE: PROVIDE CYLINDER LOCKS ON LOWER & UPPER DOORS, TYP. 3 SETS OF LOCKS, KEYED SEPERATELY FOR EACH SET. ONE MASTER KEY. PROVIDE GROMMETS AS REQUIRED- SEE ENLARGED PLANS FOR LOCATIONS.

1 DORMITORY CABINET SECTION
3/4" = 1'-0"



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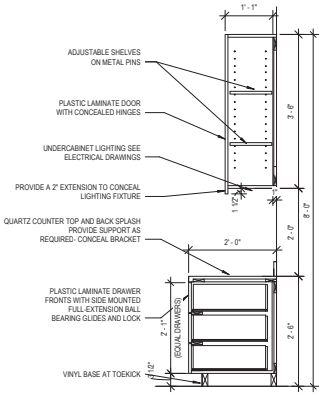
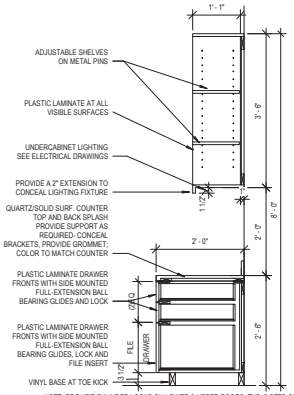
2 DORMITORY DESK SECTION
3/4" = 1'-0"



NOTE: PROVIDE CYLINDER LOCKS ON LOWER & UPPER DOORS, TYP. 3 SETS OF LOCKS, KEYED SEPERATELY FOR EACH SET. ONE MASTER KEY. PROVIDE GROMMETS AS REQUIRED- SEE ENLARGED PLANS FOR LOCATIONS.

3 DORMITORY DESK SECTION WITH DRAWERS
3/4" = 1'-0"

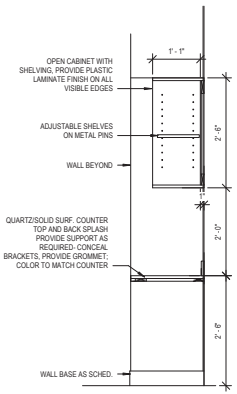


NOTE: PROVIDE CYLINDER LOCKS ON LOWER & UPPER DOORS, TYP. 3 SETS OF LOCKS, KEYED SEPERATELY FOR EACH SET. ONE MASTER KEY. PROVIDE GROMMETS AS REQUIRED- SEE ENLARGED PLANS FOR LOCATIONS.

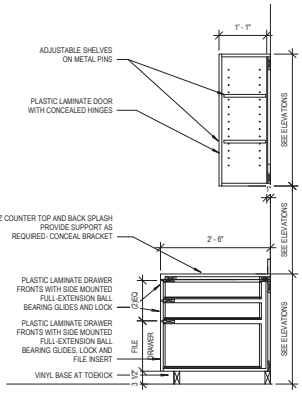
4 DORMITORY DESK WITH DRAWERS AND SHELVES SECTION
3/4" = 1'-0"

GENERAL NOTES - MILLWORK

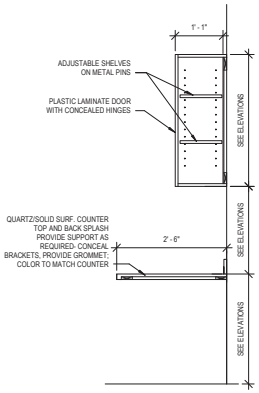
1. VERIFY ALL DIMENSIONS IN FIELD. NOTIFY ARCHITECT/DESIGNER IMMEDIATELY OF ANY DISCREPANCIES WHETHER FOUND IN THE DRAWINGS, SPECIFICATIONS, OR AT THE JOBSITE.
2. PROVIDE LOCKS FOR ALL CASEWORK DOORS/DRAWERS WITH ONE MASTER KEY.
3. CASEWORK CONSTRUCTION, UNLESS OTHERWISE NOTED:
   - 3/4" FRT MDF FOR DOORS, DRAWER FRONTS, TOEKICK, CASEWORK BODY MEMBERS (SIDES/BOTTOM/ETC.) AND CASEWORK BASES.
   - EXTERIOR GRADE PLYWOOD FOR ALL COUNTERTOPS
   - 3/4" PLYWOOD (EXTERIOR GRADE) FOR SHELVES THAT SPAN UP TO 36" WIDE.
   - 1" PLYWOOD (EXTERIOR GRADE) FOR SHELVES THAT SPAN UP TO 48" WIDE.
   - 1/2" SOLID HARDWOOD LUMBER FOR DRAWER SIDES AND SUBFRONT.
   - 1/4" FRT MDF FOR CASWEORK BACKS.
   - 1/4" HARDWOOD PLYWOOD FOR DRAWER BOTTOMS.
   - ALL EXPOSED SURFACES TO BE PLASTIC LAMINATE, UNLESS OTHERWISE NOTED.
   - ALL INTERIOR SURFACES TO BE WHITE MELAMINE, UNLESS OTHERWISE NOTED.
4. PLUMBING ROUGH INS, ELECTRICAL CONNECTIONS AT ALL APPROVED EQUIPMENT VERIFY AS PER THE MANUFACTURER'S SPECIFICATIONS PRIOR TO ANY FABRICATION AND/OR INSTALLATION.
5. INSTALL ALL SPECIFIED FLOORING TO RUN BELOW ALL MILLWORK, U.N.O.
6. PROVIDE 2 1/2" DIAMETER GROMMETS WITH CAPS AT ALL MILLWORK LOCATIONS NOTED. EXACT LOCATIONS TO BE DETERMINED IN THE FIEDL WITH END USER.
7. MAINTAIN AN 18" MINIMUM CLEAR DIMENSION AT ALL MILLWORK LOCATED ADJACENT TO DOOR LOCATIONS, U.N.O.
8. VOC MATERIAL LIMITS- PROVIDE DOCUMENTATION INDICATING THAT PRODUCTS COMPLY WITH THE TESTING AND PRODUCT REQUIREMENTS OF THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES "STANDARD PRACTICE FOR THE TESTING OF VOLATILE ORGANIC EMISSIONS FROM VARIOUS SOURCES USING SMALL-SCALE ENVIRONMENTAL CHAMBERS."
9. VOC LIMITS FOR INSTALLATION ADHESIVES AND GLUES: USE INSTALLATION ADHESIVES THAT COMPLY WITH THE FOLLOWING LIMITS FOR VOC CONTENTS WHEN CALCULATED ACCORDING TO 40 CFR 59,SUBPART D (EPA METHOD 24) :
   1.) WOOD GLUES 30g/L
   2.) CONTACT ADHESIVE: 250 g/L



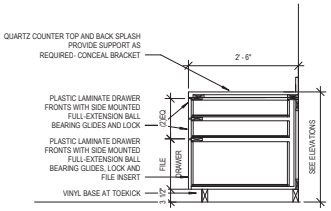
5 DORMITORY SHELVING SECTION
3/4" = 1'-0"



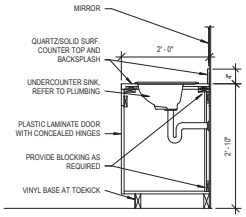
6 OFFICE DESK SECTION WITH DRAWERS
3/4" = 1'-0"



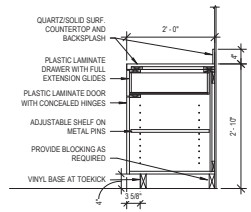
7 OFFICE DESK SECTION
3/4" = 1'-0"



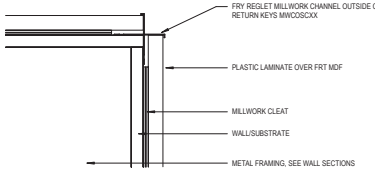
8 OFFICE DESK SECTION WITH DRAWERS
3/4" = 1'-0"



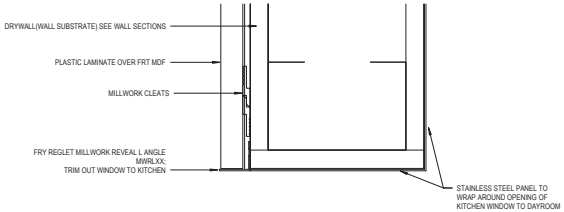
9 LAVATORY SECTION TYP.
3/4" = 1'-0"



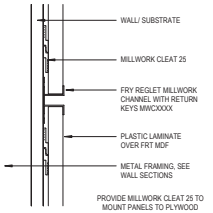
10 LAVATORY SECTION WITH DRAWER TYP.
3/4" = 1'-0"



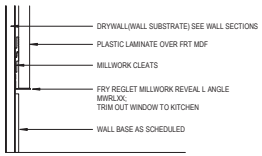
11 TRIM/REVEAL DETAIL- CORNER- ALTERNATE DETAIL
6" = 1'-0"



12 TRIM/REVEAL DETAIL- WALL PANELING- ALTERNATE DETAIL
6" = 1'-0"



13 TRIM/REVEAL DETAIL- WALL PANELING - ALTERNATE
6" = 1'-0"



14 FRY REGLET DETAIL- WALL PANELING TO BASE- ALTERNATE
3" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

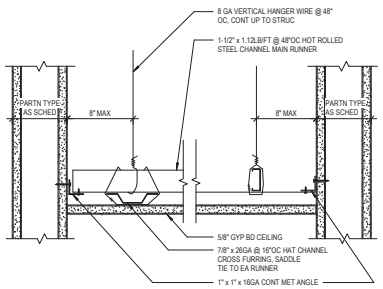
Project number
1932

DISTRIBUTION

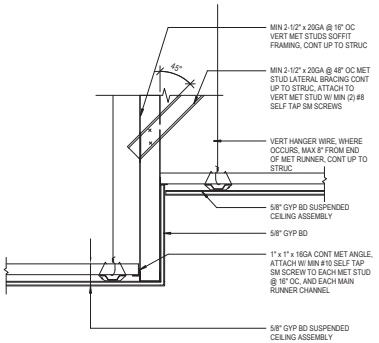
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

MILLWORK SECTIONS

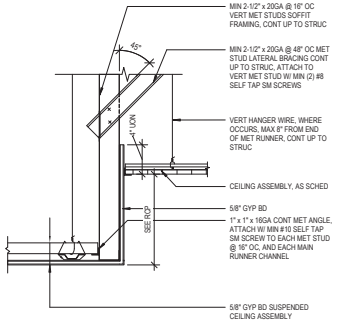
A-420



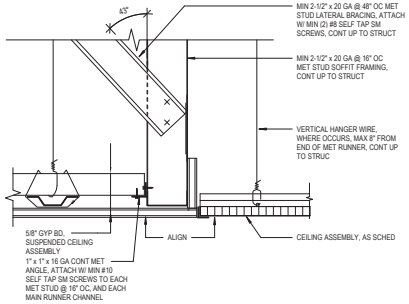
1 GYP BD CEILING SUSPENSION
3" = 1'-0"



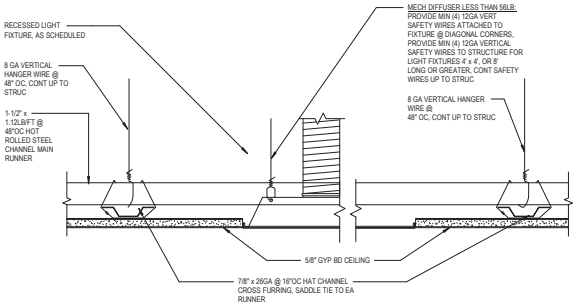
2 GYP BD - GYP BD
1 1/2" = 1'-0"



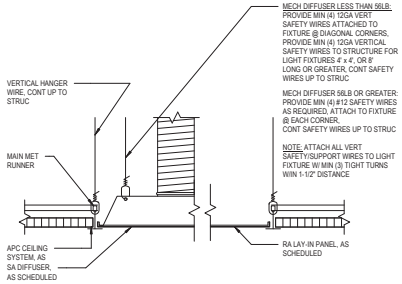
3 ACT-GYP BD SOFFIT DETAIL
1 1/2" = 1'-0"



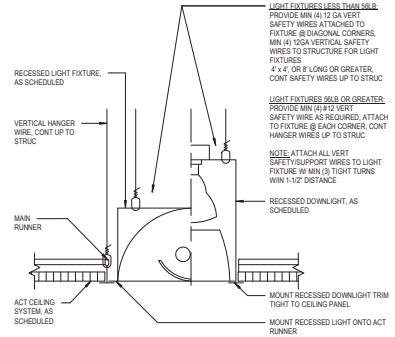
4 ACT-GYP BD CLG TRANSITION
3" = 1'-0"



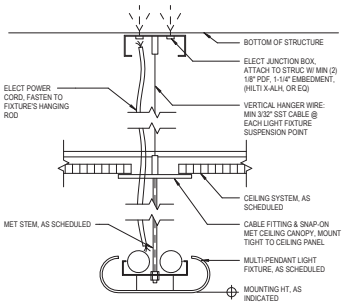
5 GYP BD CLG-DIFFUSER DETAIL
3" = 1'-0"



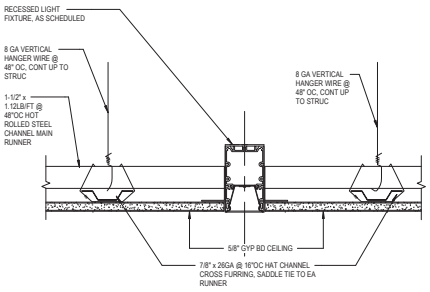
6 ACT-MECH DIFFUSER DETAIL
3" = 1'-0"



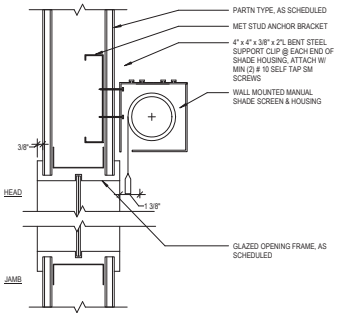
7 ACT CLG -RECESSED LIGHT FIXTURE
3" = 1'-0"



8 ACT- PENDANT MOUNTED LIGHT FIXTURE
3" = 1'-0"



9 GYP BD - RECESSED LIGHT
3" = 1'-0"



10 WALL MOUNTED WINDOW SHADE DETAIL
3" = 1'-0"

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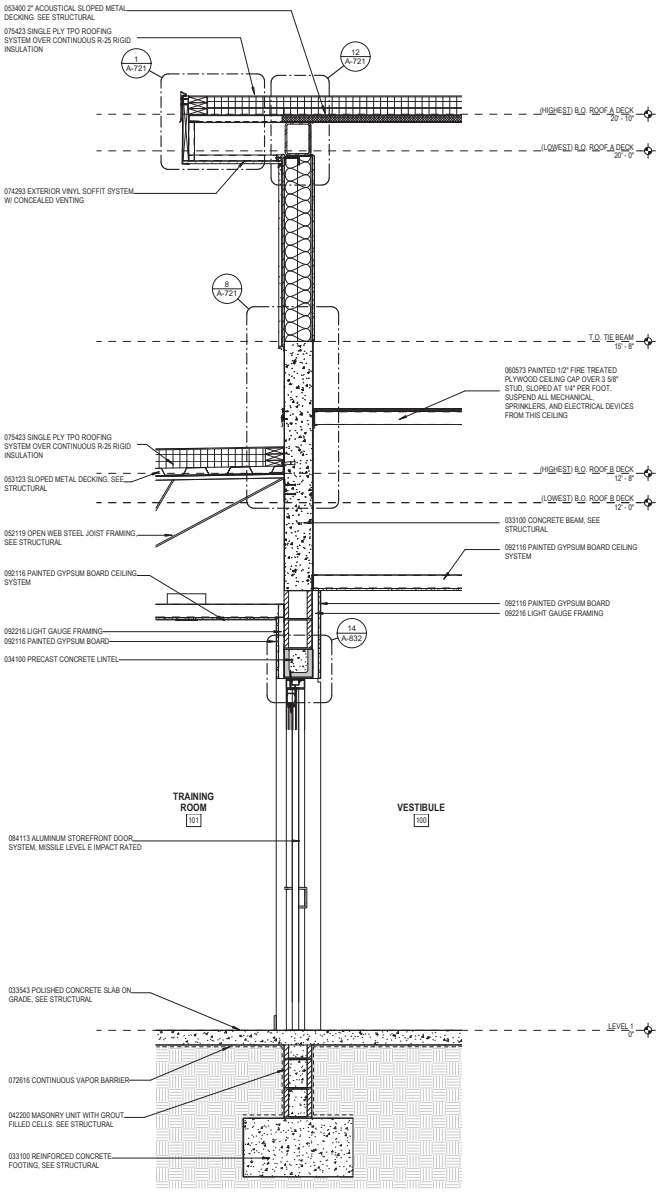
DISTRIBUTION

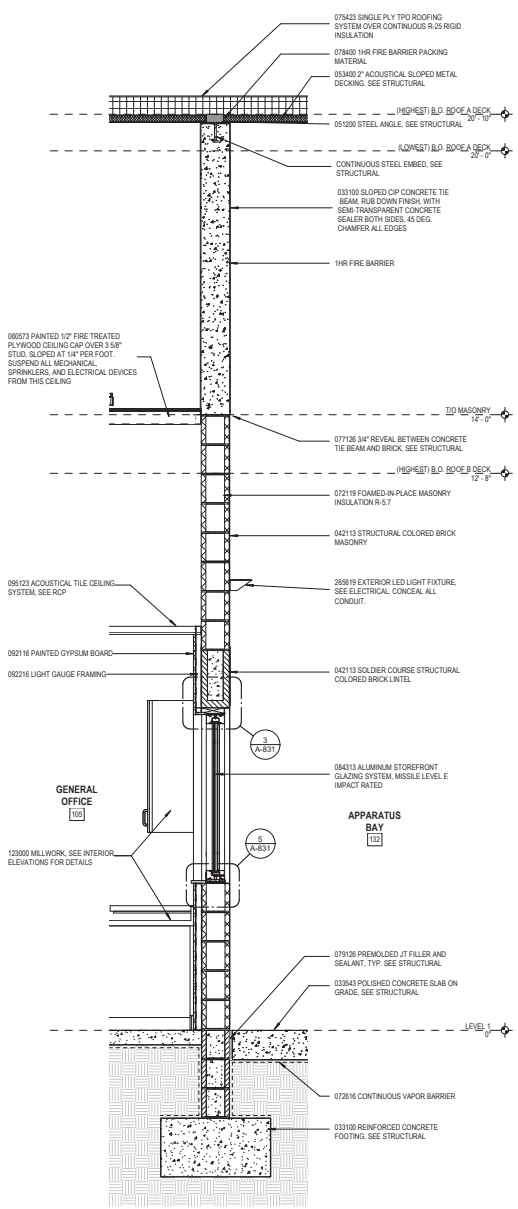
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

CEILING DETAILS

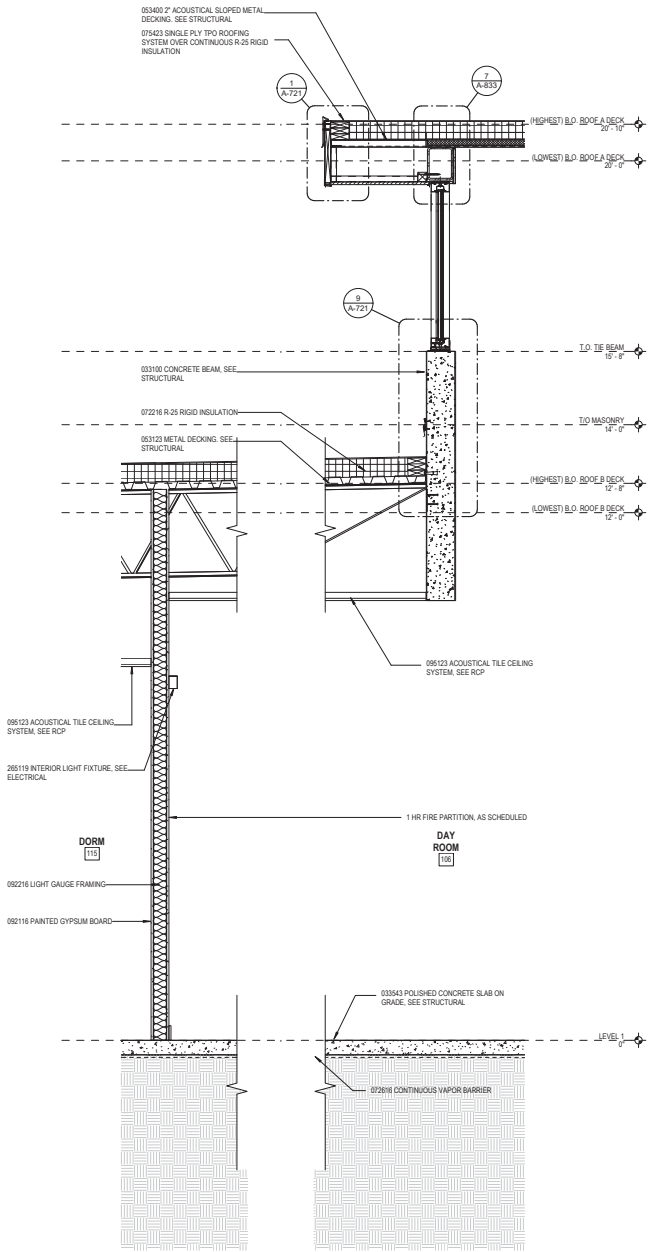
A-620



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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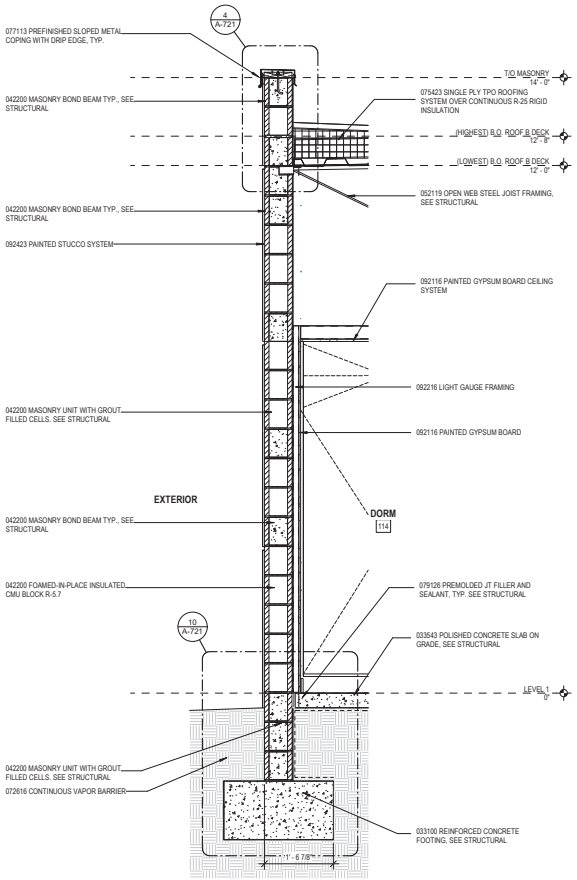
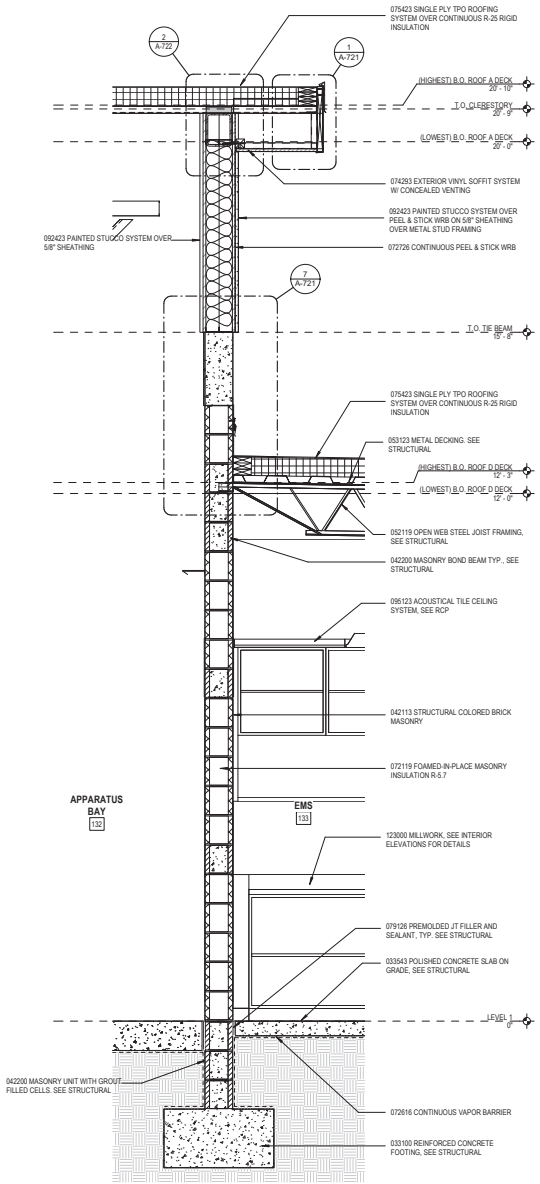
WALL SECTIONS

A-700



1 WALL SECTION
3/4" = 1'-0"



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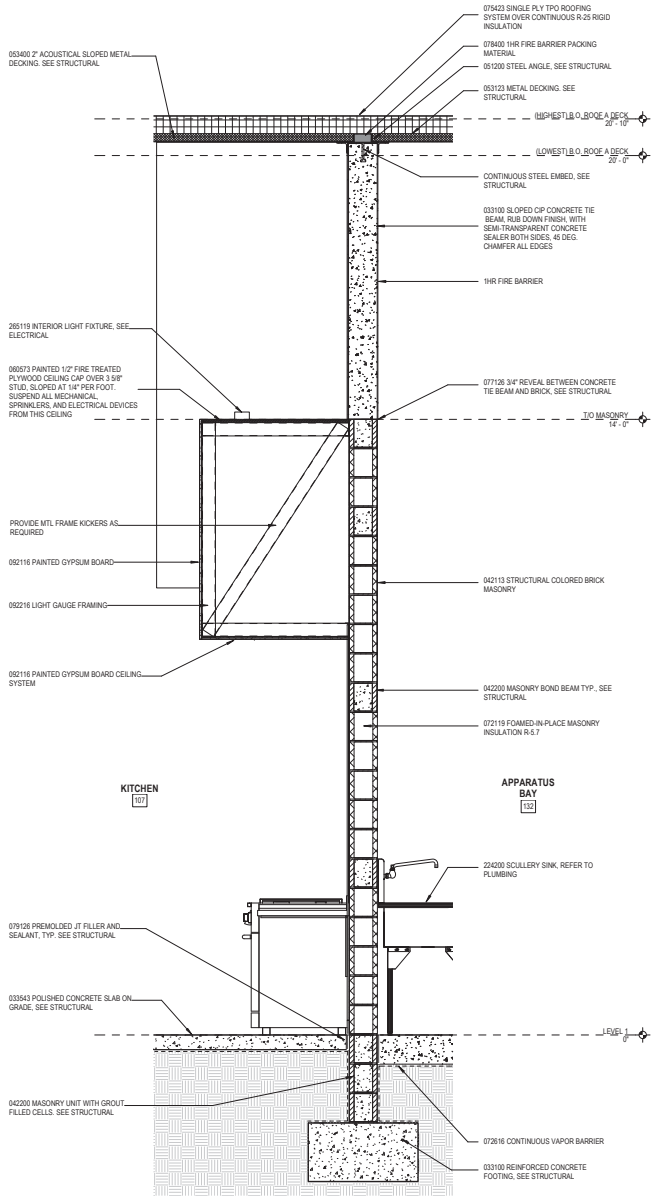

3 WALL SECTION
3/4" = 1'-0"

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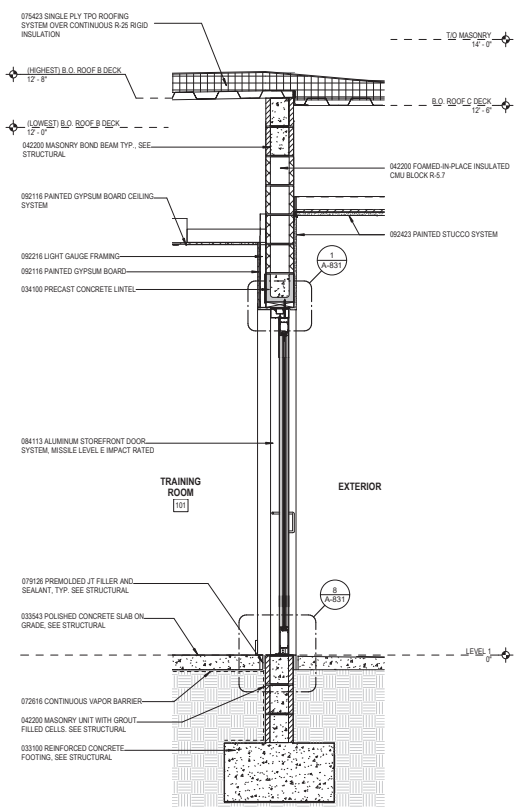
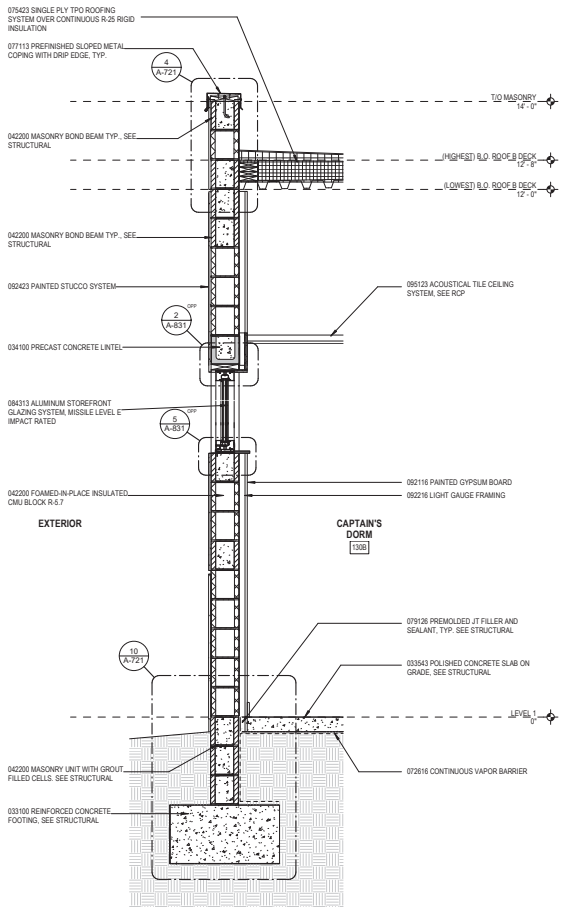
WALL SECTIONS

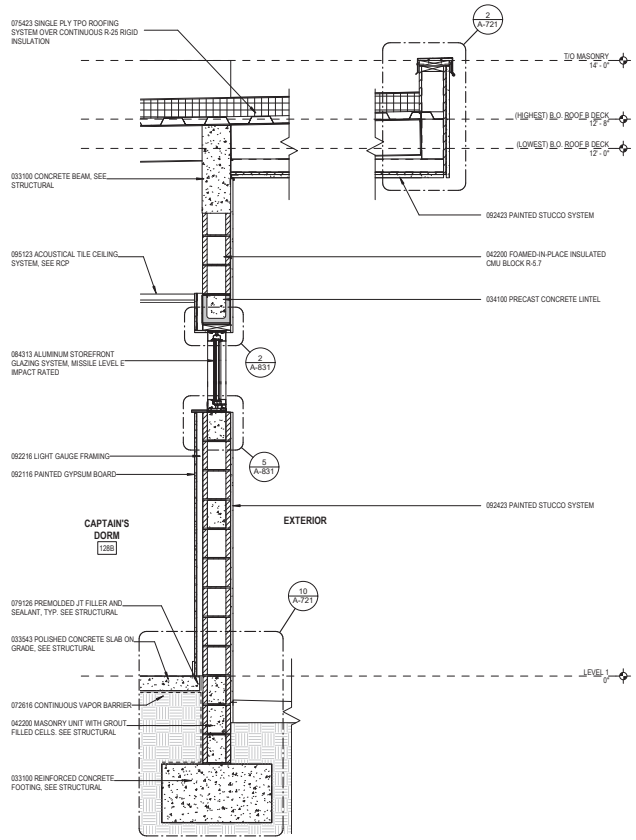
A-701



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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9252 SPRING HILL DRIVE SPRING HILL, FL 34608

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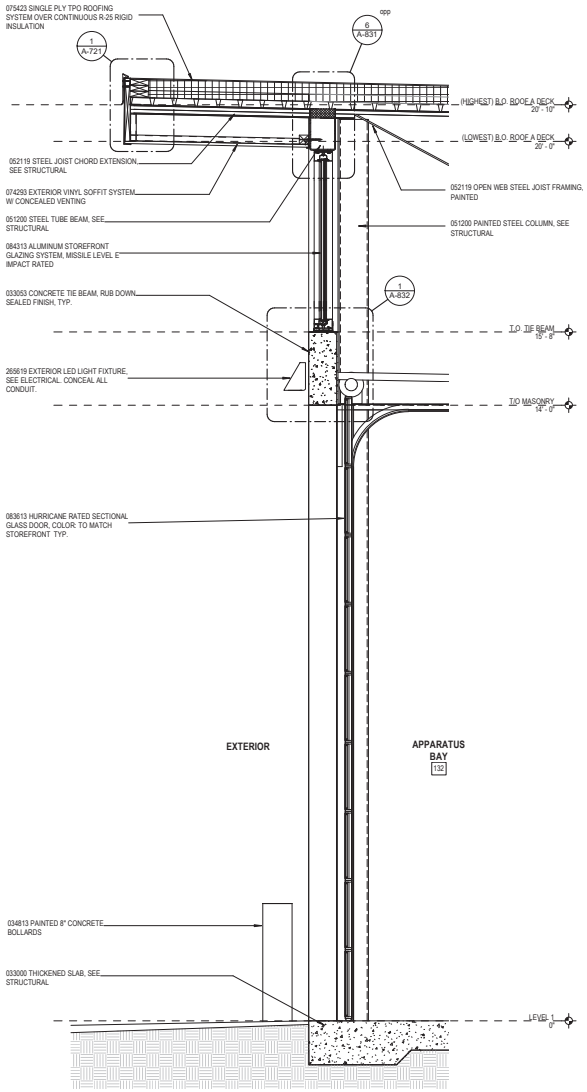
DISTRIBUTION

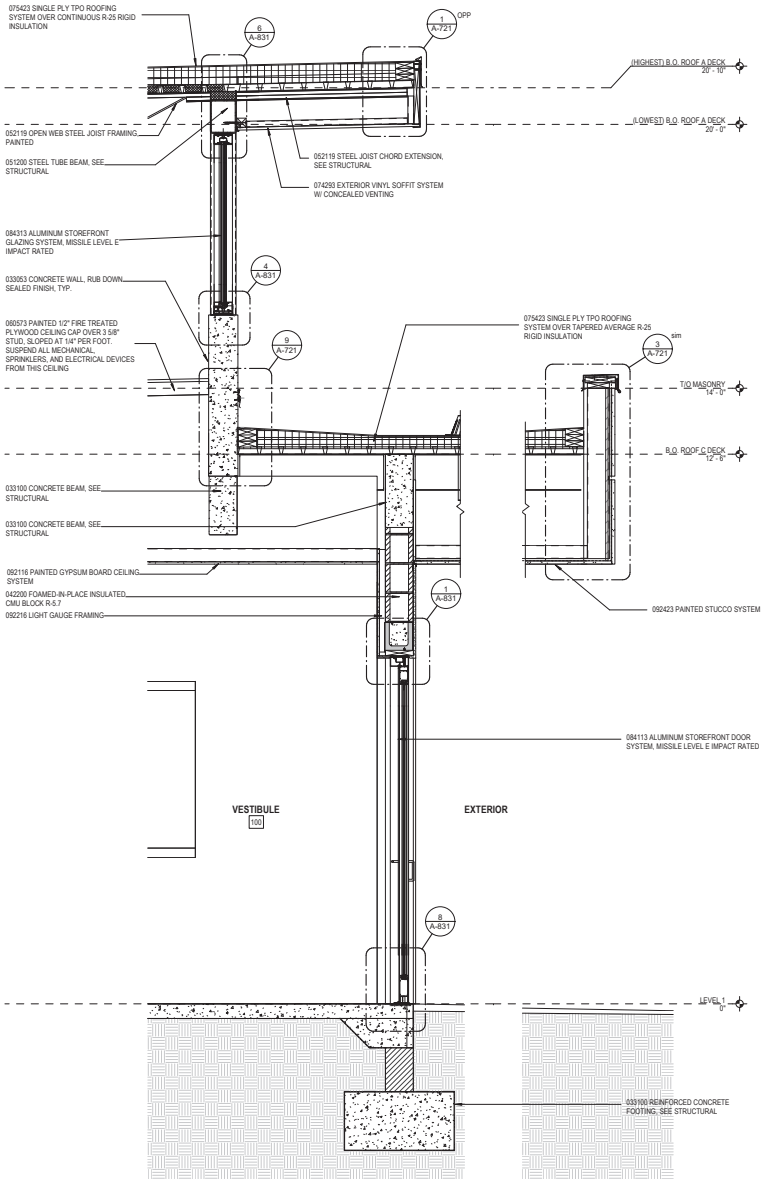
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

WALL SECTIONS

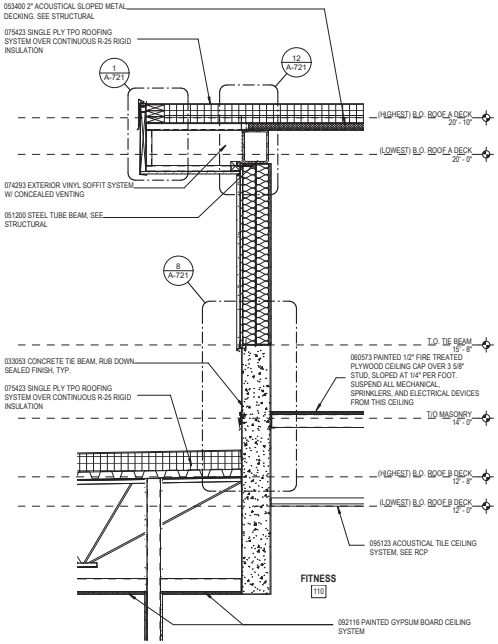
A-702



1 WALL SECTION
3/4" = 1'-0"



2 WALL SECTION
3/4" = 1'-0"



3 WALL SECTION
3/4" = 1'-0"

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DISTRIBUTION

MILESTONE	DATE
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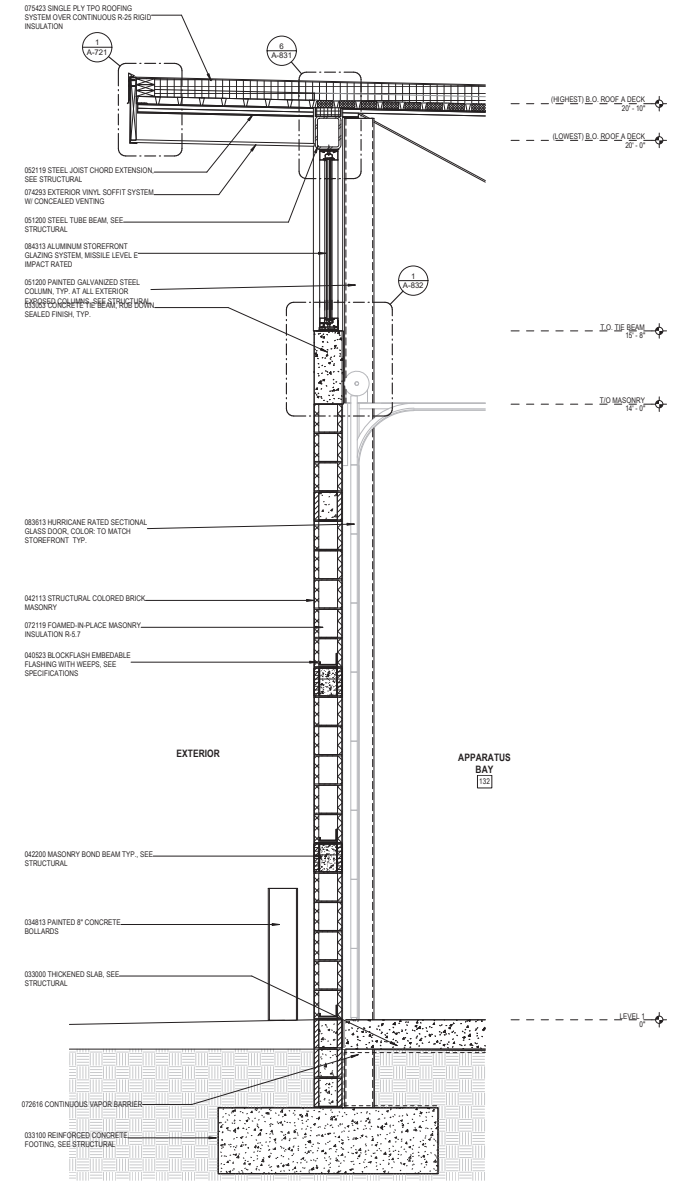
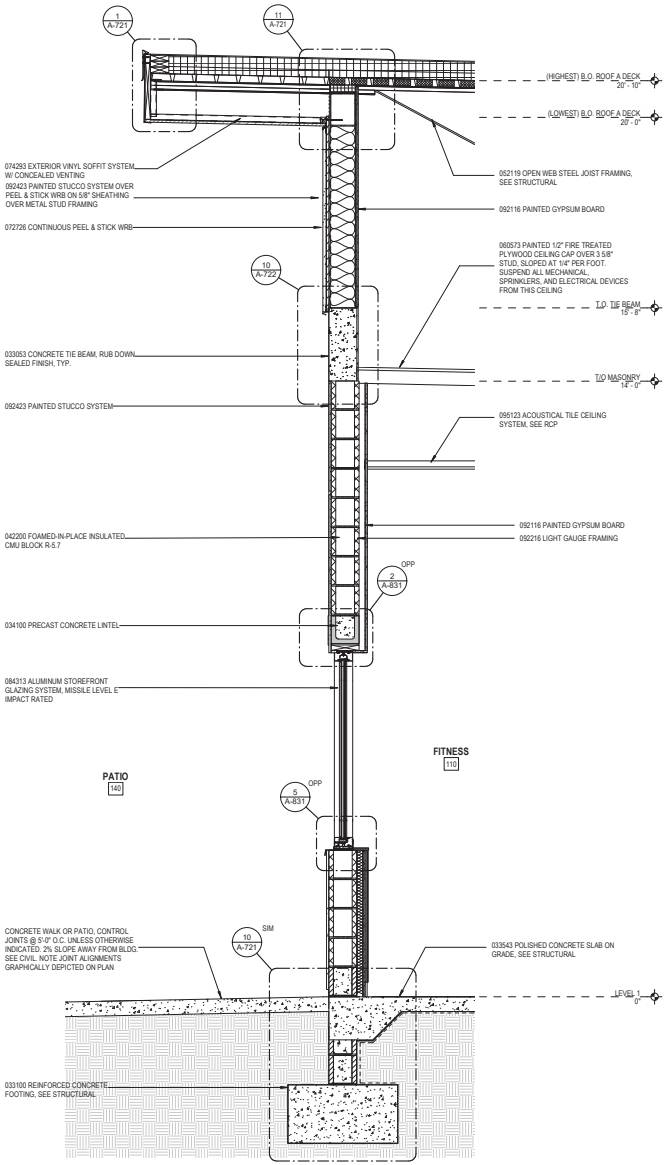
WALL SECTIONS

A-703



1 WALL SECTION 13
3/4" = 1'-0"



2 WALL SECTION 14
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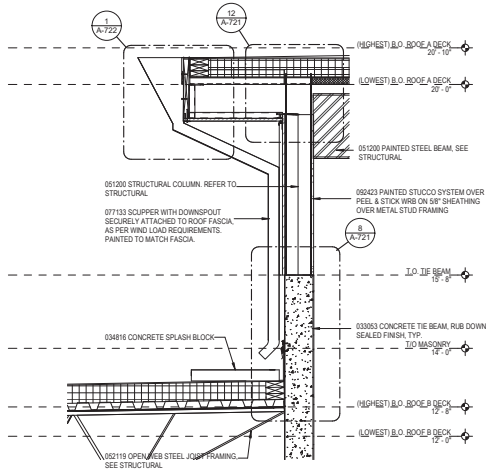

3 WALL SECTION
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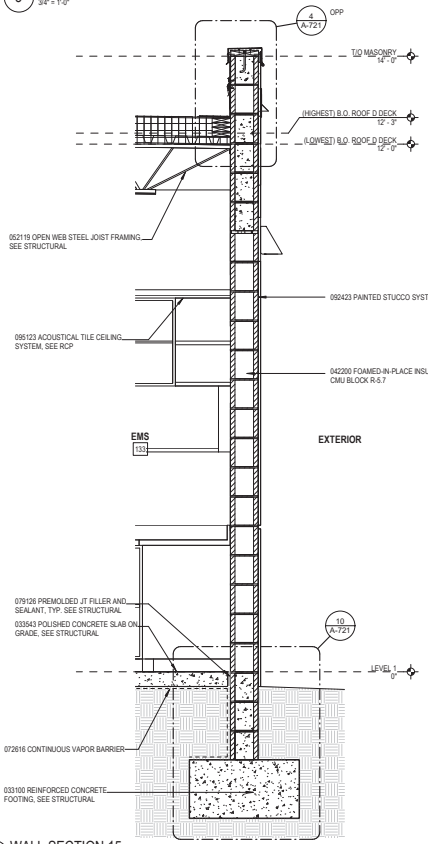

4 WALL SECTION 15
3/4" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

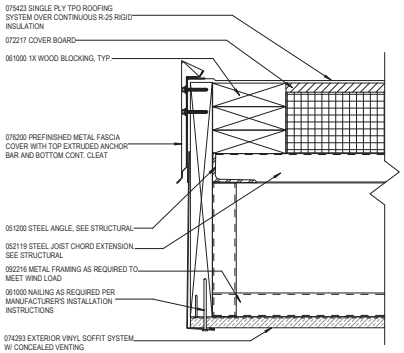
Project number
1932

DISTRIBUTION

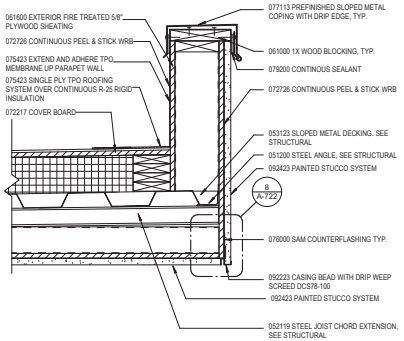
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

WALL SECTIONS

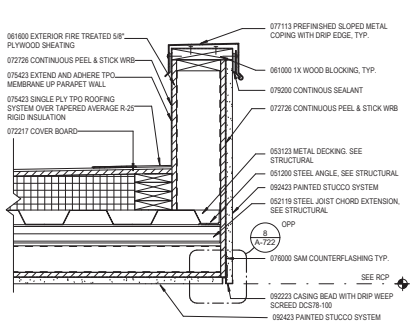
A-704



1 DETAIL
3" = 1'-0"



2 DETAIL
1 1/2" = 1'-0"



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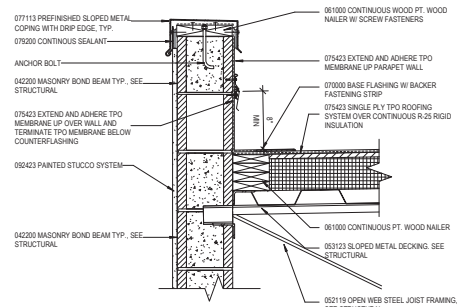
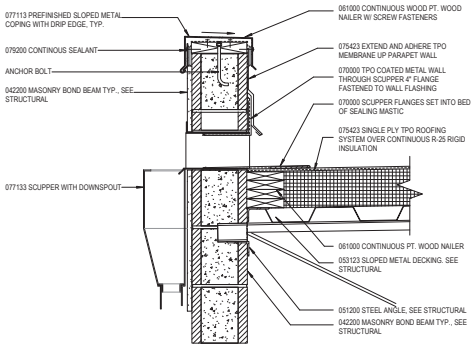
1 1/2" = 1'-0"



4 DETAIL
1 1/2" = 1'-0"



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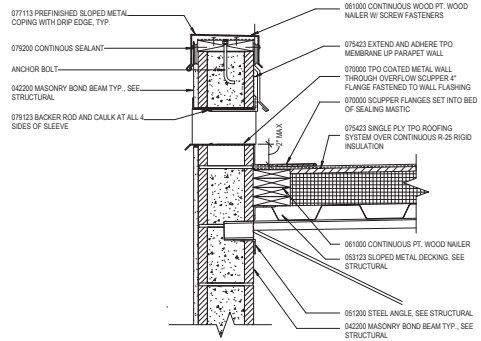
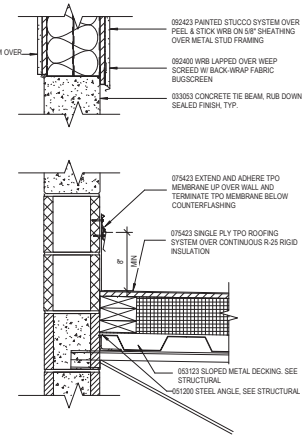
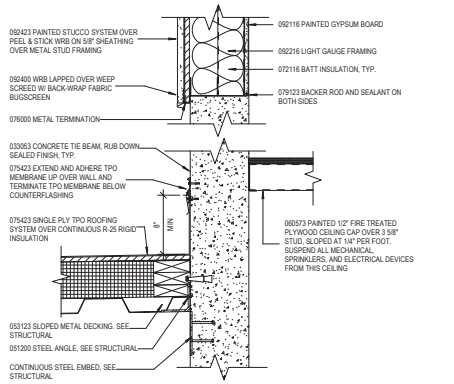
1 1/2" = 1'-0"



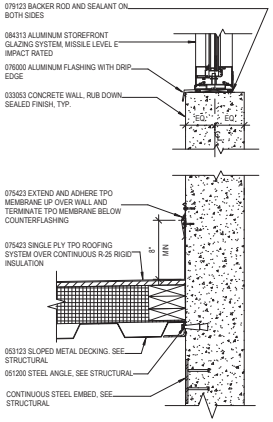
6 DETAIL
1 1/2" = 1'-0"



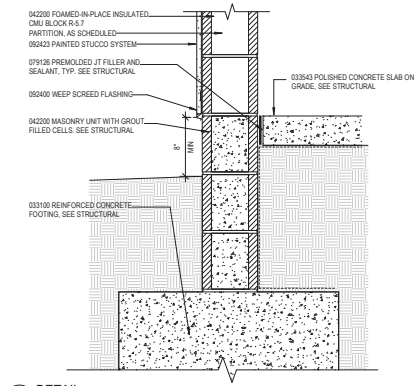
7 DETAIL
1 1/2" = 1'-0"



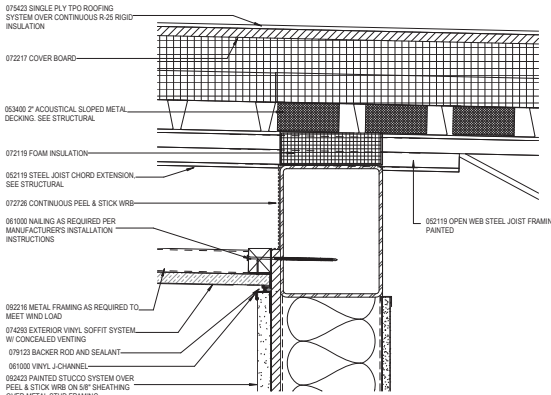
8 DETAIL
1 1/2" = 1'-0"



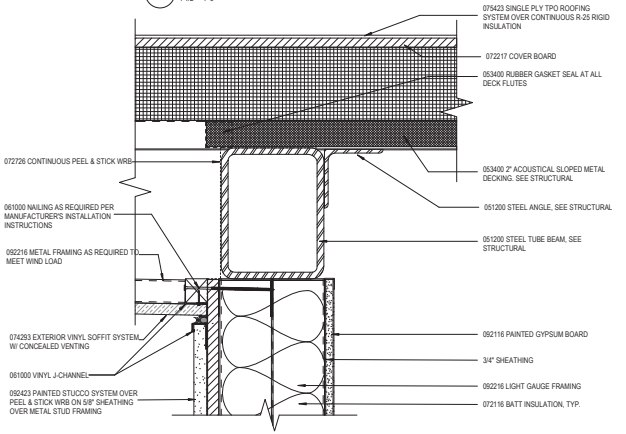
9 DETAIL
1 1/2" = 1'-0"



10 DETAIL
1 1/2" = 1'-0"



11 DETAIL
3" = 1'-0"



12 DETAIL
3" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

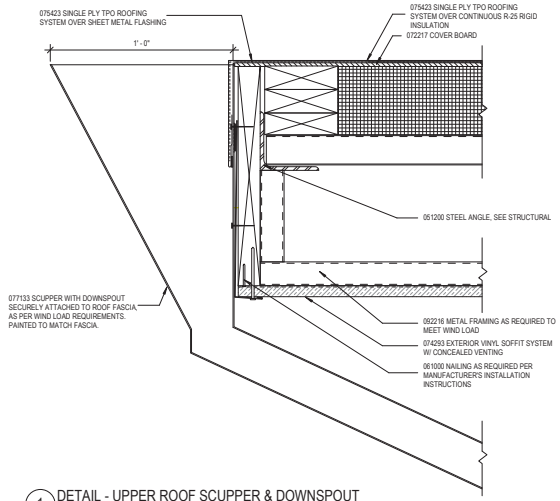
Project number
1932

DISTRIBUTION

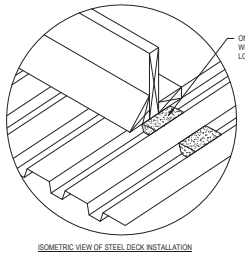
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

ENCLOSURE DETAILS

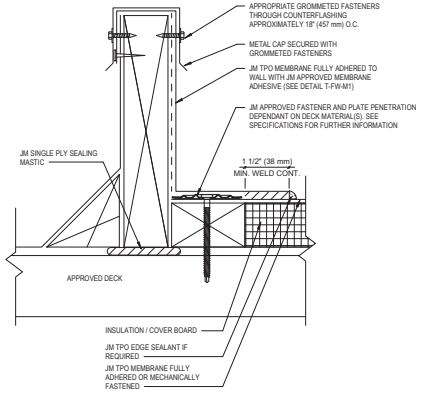
A-721



1 DETAIL - UPPER ROOF SCUPPER & DOWNSPOUT
3" = 1'-0"



ISOMETRIC VIEW OF STEEL DECK INSTALLATION



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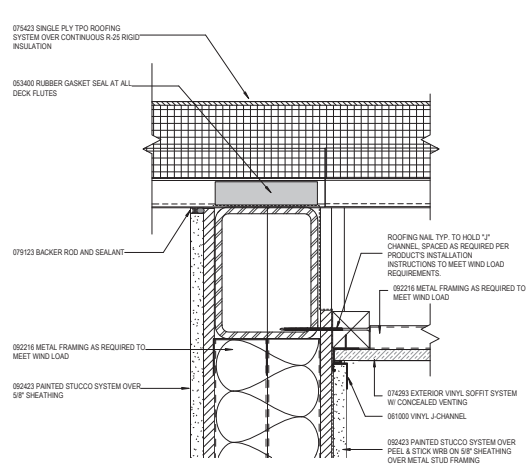
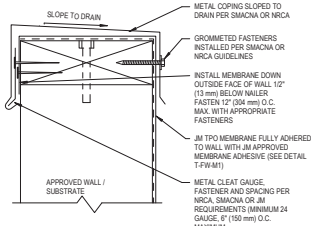
2. PLEASE SEE SINGLE PLY FLASHING SPECIFICATIONS FOR A FULL DESCRIPTION OF INSTALLATION INSTRUCTIONS AND REQUIREMENTS WHICH ARE CONSIDERED A PART OF THIS DETAIL.
3. ANY CARPENTRY OR METAL WORK SHOULD BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND/OR PROJECT SPECIFICATIONS. THESE COMPONENTS SHOULD BE REVIEWED AND APPROVED BY A LICENSED DESIGN PROFESSIONAL.
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-M5-01).
6. SEE T-FW-B DETAILS FOR JM APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

4 DETAIL - CURB TIE-IN TO ROOF
6" = 1'-0"



2 DETAIL
3" = 1'-0"



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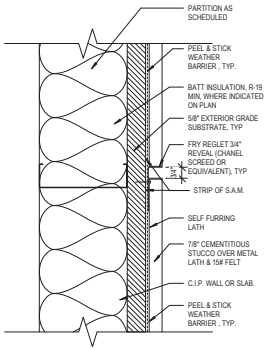
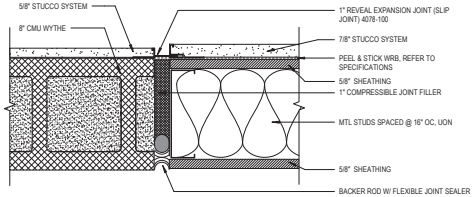
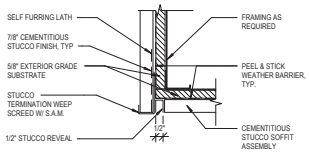
5 FABRICATED METAL COPING OVER ADHERED TPO
6" = 1'-0"



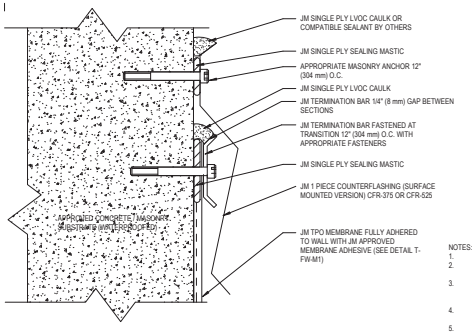
6 DETAIL - STUCCO REVEAL
3" = 1'-0"



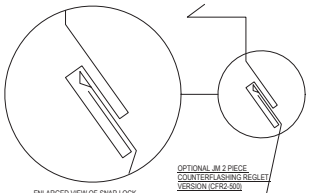
7 DETAIL - STUCCO SLIP JOINT
3" = 1'-0"



8 DETAIL - STUCCO SOFFIT TERMINATION
3" = 1'-0"



TPO INTERMEDIATE TERMINATION WITH SURFACE MOUNTED COUNTERFLASHING
12" = 1'-0"



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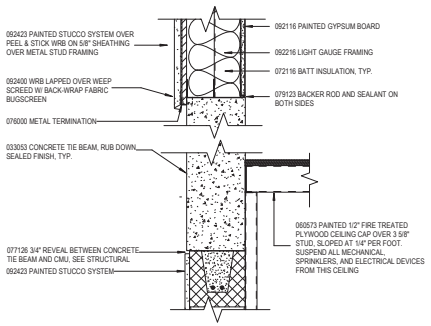
4. ALL SEALANTS / CAULKING SHALL BE PERIODICALLY INSPECTED AND MAINTAINED BY THE BUILDING OWNER THROUGHOUT THE LIFE OF THE ROOF.
5. TO ASSURE SURFACE MOUNTED TERMINATION PERFORM EFFECTIVELY, WATERPROOF AND MAINTAIN CONCRETE AND MASONRY SUBSTRATES.
6. MINIMUM FLASHING HEIGHT IS 8" (203 mm) ABOVE ROOF SURFACE.

9



10 DETAIL
1 1/2" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

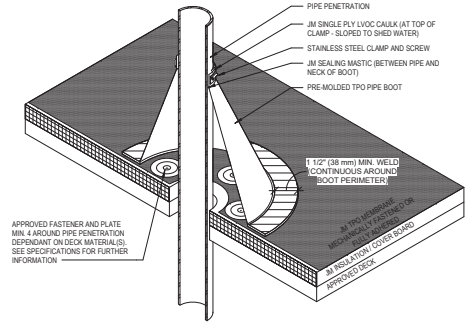
Project number 1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

ENCLOSURE DETAILS

A-722



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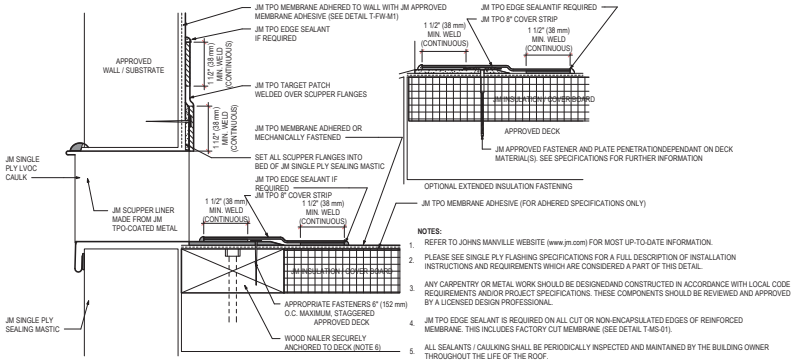
1 DETAIL - TPO PIPE BOOT
1 1/2" = 1'-0"



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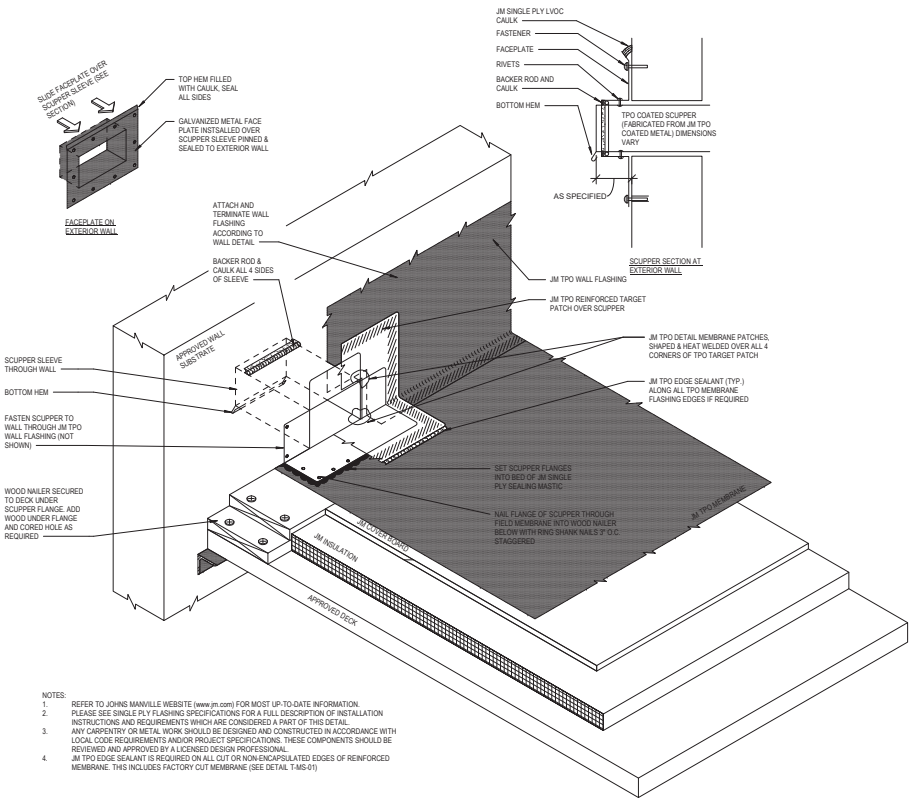
5. ALL SEALANTS / CAULKING SHALL BE PERIODICALLY INSPECTED AND MAINTAINED BY THE BUILDING OWNER THROUGHOUT THE LIFE OF THE ROOF.
6. WOOD NAILER OPTIONAL. EXTEND INSULATION TO WALL AND USE JM APPROVED FASTENERS TO SUBSTRATE.

3 DETAIL - THROUGH-WALL SCUPPER
6" = 1'-0"



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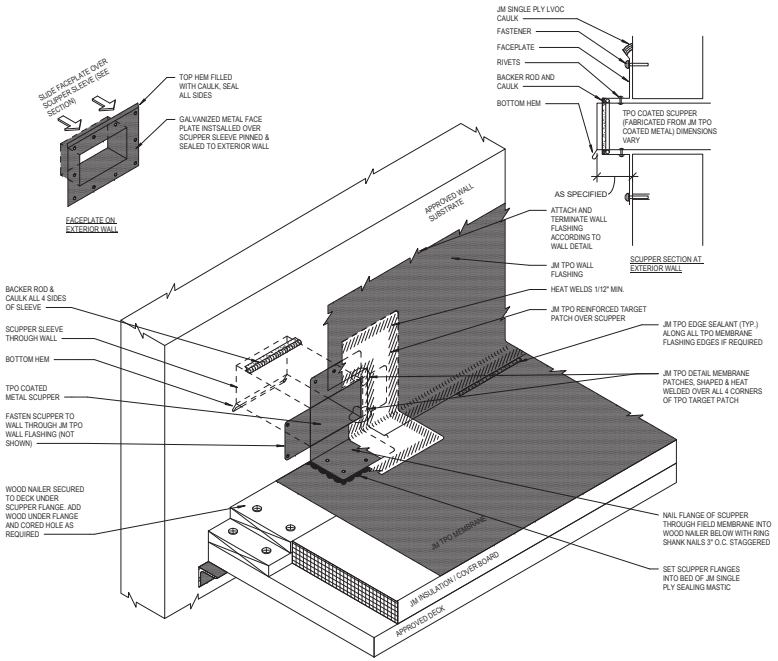
4 DETAIL THROUGH WALL SCUPPER
1 1/2" = 1'-0"



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5 DETAIL - OVERFLOW SCUPPER
1 1/2" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

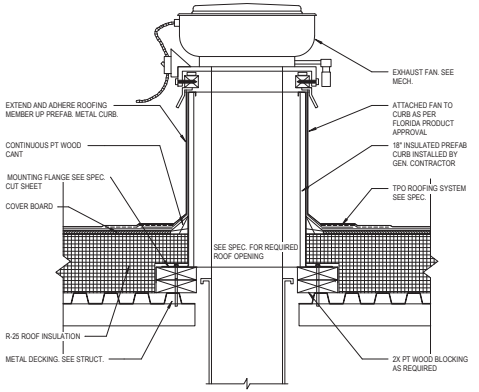
Project number
1932

DISTRIBUTION

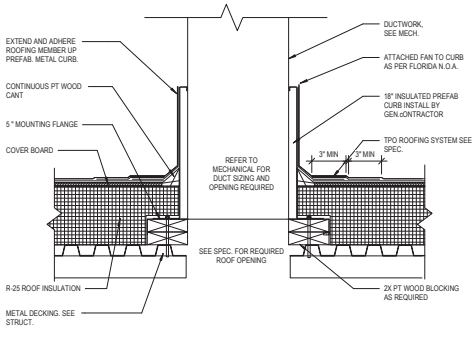
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

ENCLOSURE DETAILS

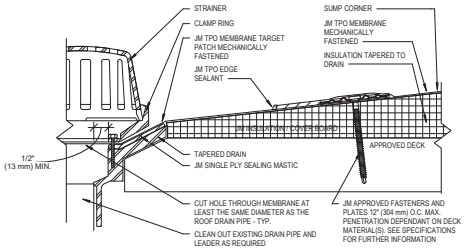
A-723



1 DETAIL - ROOF EXHAUST
1 1/2" = 1'-0"



2 DETAIL - DUCT PENETRATION
1 1/2" = 1'-0"



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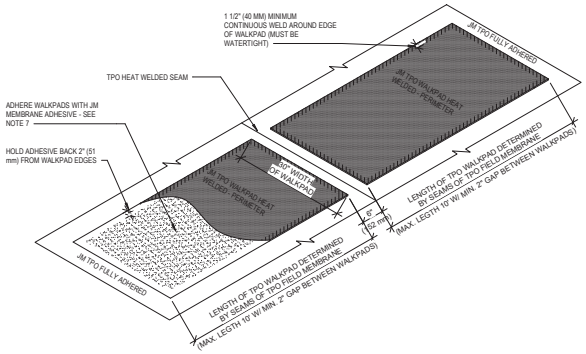
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED
5. REPLACE ANY BROKEN COMPONENTS (DRAINS, RINGS, BOLTS, ETC.)
6. SUMP AREA MUST BE PROPERLY TAPERED SO THAT DRAIN FLASHING IS NOT INSTALLED UNDER TENSION.

3 DETAIL - PRIMARY DRAIN SUMP
6" = 1'-0"



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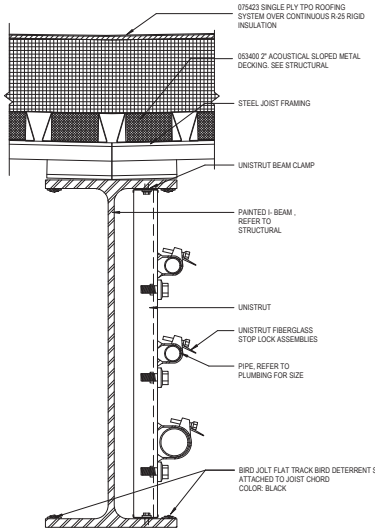
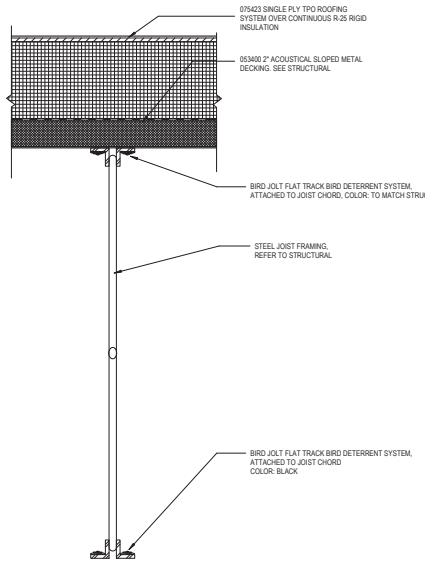
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
5. CLEAN MEMBRANE SURFACE PRIOR TO WALKPAD INSTALLATION WITH TPO MEMBRANE CLEANER.
6. DO NOT INSTALL WALKPADS OVER MEMBRANE SEAMS.
7. JM APPROVED ADHESIVES FOR ADHERING TPO WALKPADS ARE JM LVOC MEMBRANE ADHESIVE (TPO & EPDM), JM MEMBRANE BONDING ADHESIVE (TPO & EPDM) AND JM TPO WATER BASED MEMBRANE ADHESIVE.

4 DETAIL - TPO WALKPADS OVER ADHERED TPO MEMBRANE
3/4" = 1'-0"



5 DETAIL - I BEAM DETAIL PIPE SUPPORT @ APPARATUS BAY
3" = 1'-0"



6 DETAIL - BIRD DETERRENT TRACK @ JOIST
3" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

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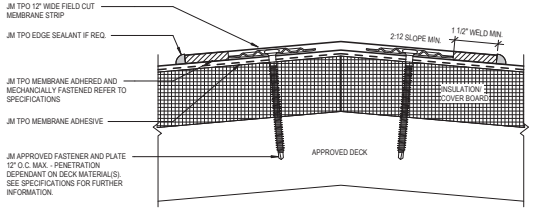
ENCLOSURE DETAILS

A-724



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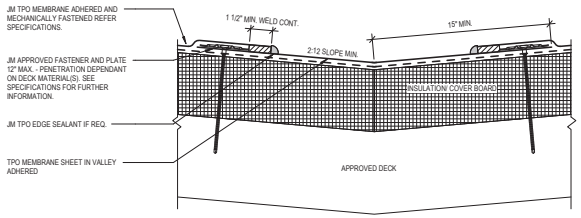
4. JM TPO EDGE SEALANT IS REQUIRED ON ALL CUT OR NON-ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE.

1 DETAIL - ROOF RIDGE
3" = 1'-0"



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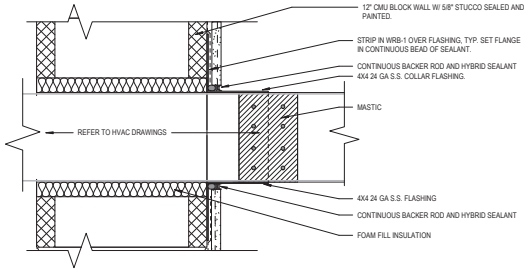
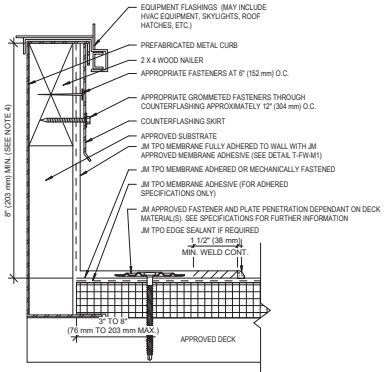
2 DETAIL - ROOF VALLEY
3" = 1'-0"

NOT TO SCALE



3 HVAC DUCT PENETRATION
3" = 1'-0"

NOT TO SCALE



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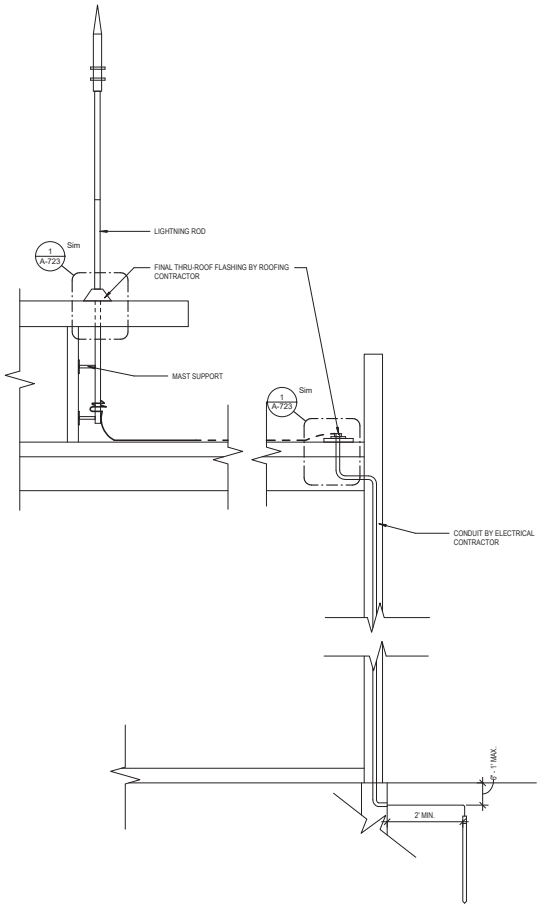
4. HEIGHT OF CURB TO BE ADJUSTED WITH NAILERS. IT IS PREFERRED TO RAISE CURB ONTO NAILERS TO EXTEND FLASHING HEIGHT.
5. TPO EDGE SEALANT IS REQUIRED ON ALL CUT AND NON ENCAPSULATED EDGES OF REINFORCED MEMBRANE. THIS INCLUDES FACTORY CUT MEMBRANE (SEE DETAIL T-MS-01).
6. SEE T-FW-8 DETAILS FOR JM APPROVED BASE FLASHING TIE IN TERMINATION METHODS.

4 PREFABRICATED METAL CURB BASE FLASHING
6" = 1'-0"



5 DETAIL - LIGHTNING PROTECTION SYSTEM
3" = 1'-0"

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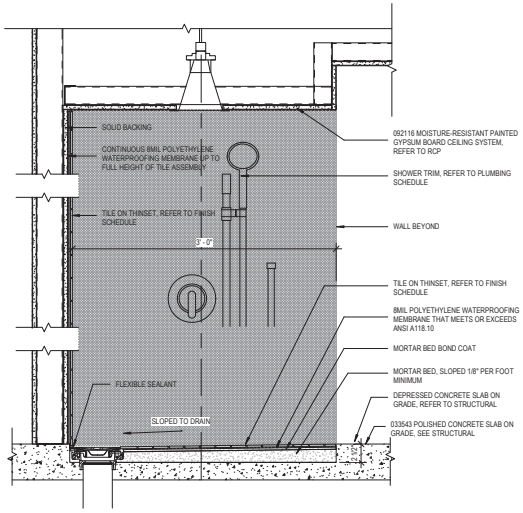
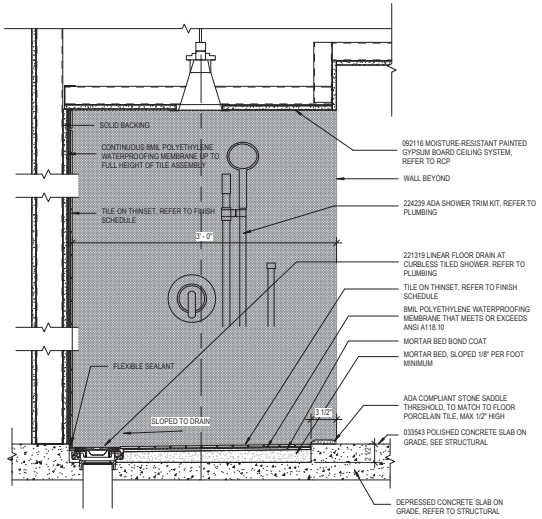
ENCLOSURE DETAILS

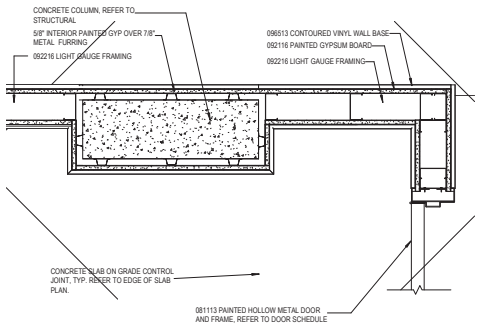
A-725



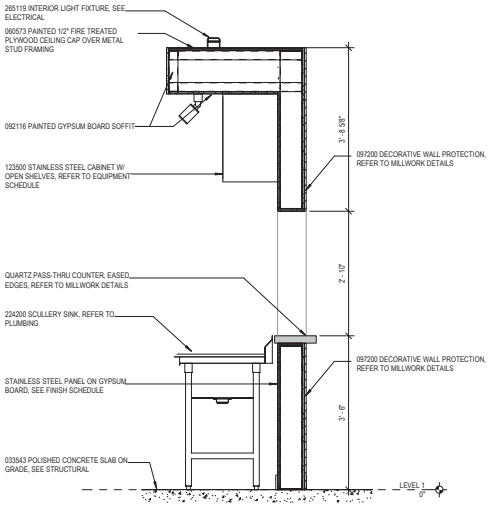
1 DETAIL - TYP. TILED SHOWER
1 1/2" = 1'-0"



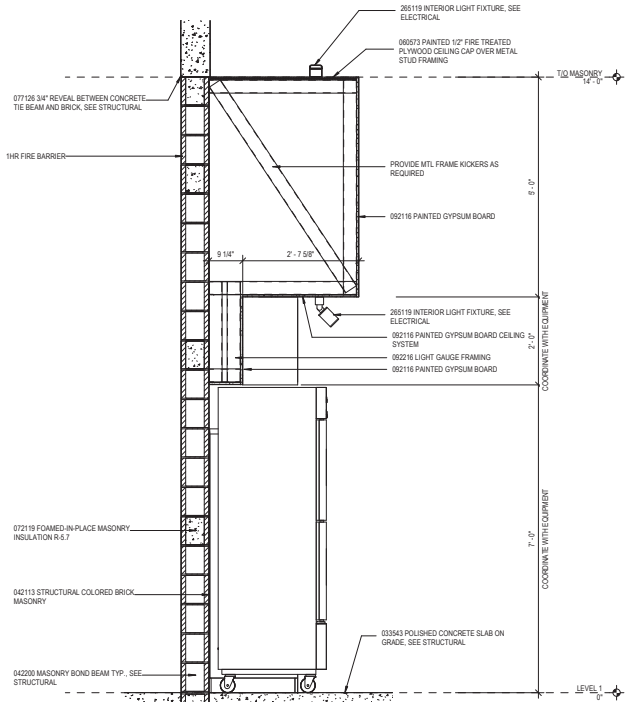
2 DETAIL - TYP. TILED SHOWER @ CAPTAIN'S DORM -WC 128C
1 1/2" = 1'-0"



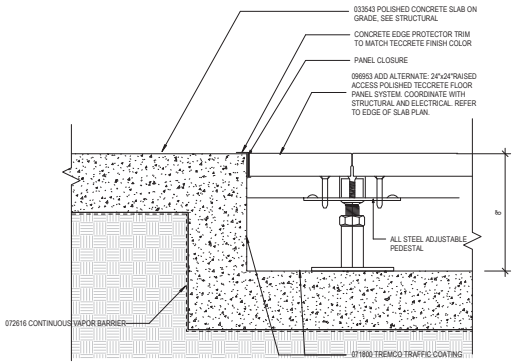
3 PLAN DETAIL 01
1 1/2" = 1'-0"



4 WALL SECTION - KITCHEN
3/4" = 1'-0"



5 WALL SECTION - KITCHEN (B)
3/4" = 1'-0"



6 DETAIL - RAISED ACCESS FLOORING
3" = 1'-0"

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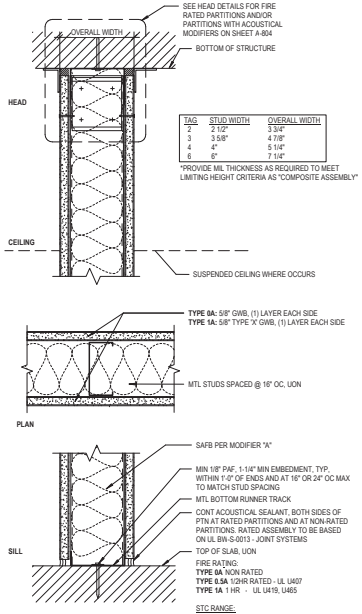
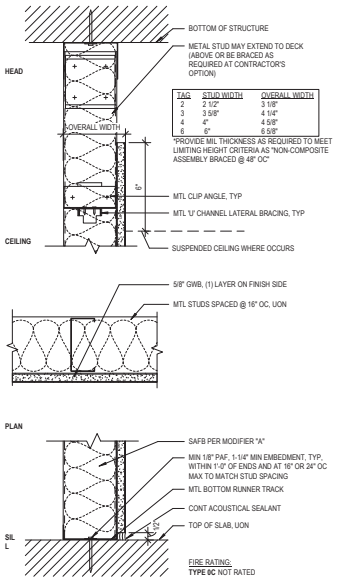
INTERIOR DETAILS

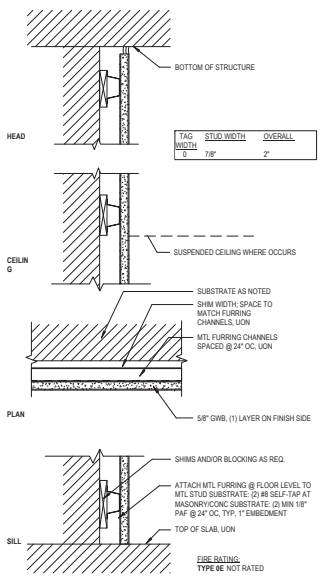
A-726



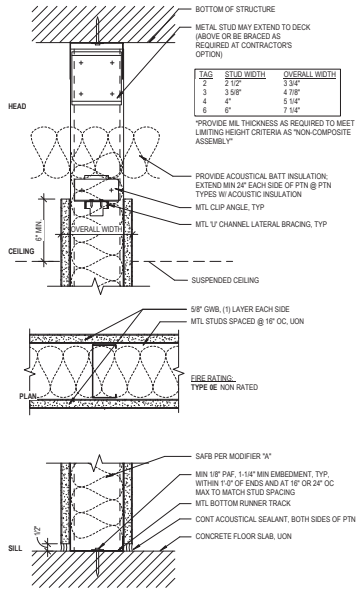
A TYPE A: FULL HEIGHT: 0- & 1-HR RATED
3" = 1'-0"



C TYPE C: PARTIAL HEIGHT FURRING: NON RATED
3" = 1'-0"



E TYPE E: FURRING ON SUBSTRATE: NON RATED
3" = 1'-0"

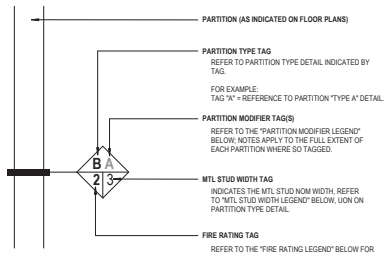


J TYPEJ: PARTIAL HEIGHT: NON RATED
3" = 1'-0"

GENERAL NOTES

1. REFER TO INDICATED DRAWINGS FOR HEAD DETAILS; HEAD CONDITION AS APPLICABLE TO SUPPORT CONDITION. PROVIDE THE APPROPRIATE HEAD CONNECTION DETAIL BASED ON FIRE RATING AND ON CONNECTION CONDITION AT DECK OR BEAM.
2. PROVIDE TYPE 'X' GWB AT ALL SMOKE PARTITIONS.
3. SMOKE BARRIERS SHALL RESIST THE PASSAGE OF AIR AT THE RATE OF NOT MORE THAN 5.0 CFM/SF AT BOTH AMBIENT TEMPERATURES & 400 DEG F AT A PRESSURE DIFFERENTIAL OF 0.30" WATER COLUMN.
4. MOISTURE RESISTANT, PAPERLESS, COATED FIBERGLASS MAT WATER RESISTANT GYPSUM WALL BOARD TO BE UTILIZED ON THE OUTER LAYER OF ALL PARTITIONS THAT ARE SCHEDULED TO RECEIVE CERAMIC TILE, PORCELAIN TILE, STONE TILE OR ANY MATERIAL THAT IS SECURE WITH ADHESIVES OR THIN-SET MORTARS.
5. PROVIDE 1/2" CEMENT BOARD AT ALL SHOWER AND TUB LOCATIONS. EXTEND A MINIMUM OF 12 INCHES BEYOND WET AREA AS DEFINED BY SHOWER GLASS, CURTAIN, OR TUB EDGE.
6. MOISTURE RESISTANT GWB TO BE USED AT ALL STAIR SHAFTS, ELEVATOR SHAFTS, HVAC SHAFTS, PLUMBING CHASE, EXTERIOR WALLS, JANITOR CLOSETS, MECHANICAL ROOM INCLUDING BULKHEADS, AND OTHER AREAS WERE MOISTURE COULD OCCUR AND AS SPECIFICALLY SCHEDULED AND/OR NOTED.
7. PROVIDE UL COMPLIANT FIRE AND SMOKE STOP SYSTEMS AT ALL HEAD OF WALL, BOTTOM OF WALL AND FOR ALL PENETRATIONS AND AS SPECIFICALLY SHOWN OR SCHEDULED.
8. ALL BRACING AND UNBRACED LENGTHS TO BE DESIGNED AND BASED ON SSMA (STEEL STUD MANUFACTURERS ASSOCIATION) PRODUCT TECHNICAL GUIDE [www.ssma.com].
9. SEE PROJECT SPECIFICATIONS FOR PERFORMANCE CRITERIA FOR ALL METAL FRAMED PARTITIONS.
10. ALL PARTITIONS TO BE FULL HEIGHT, UON.
11. STUD GAGE - 20 UON
12. ALLOWABLE DEFLECTION TO BE L/240 UON.
13. PROVIDE FIRESTOPS AND SMOKE SEALS AT ALL PENETRATIONS OF FIRE RATED PARTITIONS
14. IMPACT RESISTANT GWB TO BE USED WHERE NOTED AND AT THE FOLLOWING LOCATIONS INCLUDING BUT NOT LIMITED TO: CORRIDORS, MECHANICAL ROOMS, MAINTENANCE ROOMS, AND STORAGE ROOMS.
15. CEMENT BOARD TO BE USED AT THE FOLLOWING LOCATIONS: SHOWERS, BATH
16. SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE FOR FINISHES AND WALL BASE.
17. FOR ASYMMETRICAL PARTITIONS THE EXTRA LAYER OF GYPSUM IS TO BE INSTALLED ON THE SIDE OF THE PARTITIONS WHERE THE TYPE KEY IS SHOWN.
18. PROVIDE FRT BLOCKING IN GYPSUM WALL BOARD PARTITIONS FOR ANCHORAGE OF GRAB BARS, HANDRAILS, TELEVISION, OTHER WALL MOUNTED FIXTURES, AND SIMILAR ITEMS
19. FIRE RATED PARTITIONS W/ SCHEDULED INSULATION MUSH HAVE FIRE RESISTANT INSULATION
20. ALL FIRE-RESISTANCE SHALL BE STENCILED IN RED WITH 2-INCH HIGH LETTERING TO INDICATED THE WALL IS A FIRE-RESISTANCE-RATED AND/OR SMOKE PARTITION . IF THE WALL IS FIRE-RESISTANCE RATED, INDICATE "FIRE RATED - "X" HOURS PROTECT ALL OPENINGS" AND THE APPLICABLE FIRE-RESISTANCE RATING (ONE, TWO, THREE, OR FOUR HOURS). THE STENCILING SHALL BE LOCATED ON THE FIRE-RESISTANCE-RATED WALL OR SMOKE PARTITION ABOVE CEILINGS AND AT THE EXPOSED AREAS (SUCH AS MECHANICAL AND ELECTRICAL EQUIPMENT ROOMS AND IDF ROOMS) AT 10-FOOT INTERVALS.
21. PROVIDE IMPACT/ ABUSE RESISTANT GWB COMPLYING W/ HARD BODY IMPACT CLASSIFICATION LEVEL 3 IN LIEU OF INNER LAYER OF GWB ON OUTER SIDE OF STAIR OR ELEVATOR INCLOSURE OR 2 LAYERS OF IMPACT RESISTANT BOARD, EA OF WHICH COMPLIES W/ HARD BODY IMPACT CLASSIFICATION LEVEL 2
22. PROVIDE A LAYER OF PLYWOOD SHEETING UP TO 8'-0" HIGH INSIDE ELECTRICAL, MECHANICAL, OR IT ROOMS AS SHOWN ON PLANS. PAINT AS SCHEDULED.
23. PARTITIONS TO BE TREATED AS A SMOKE BARRIER FOR RATED PARTITION TYPES OR SMOKE PARTITION FOR NON RATED TYPES AS NOTED IN PLANS AND DETAILS.

WALL TAG LEGEND



FIRE RATING LEGEND

THE COMPLETE ASSEMBLY OF EACH PARTITION W/ A FIRE/SMOKE RATING TAG SHALL COMPLY W/ ALL REQUIREMENTS OF THE FIRE-RESISTANCE/SMOKE BARRIER RATING CLASSIFICATION.

TAG	RATING CLASSIFICATION
0	NON-RATED PARTITION
0.5	30 MIN FIRE- RESISTANCE RATED PARTITION
1	60 MIN FIRE-RESISTANCE RATED PARTITION
2	120 MIN FIRE-RESISTANCE RATED PARTITION
3	180 MIN FIRE-RESISTANCE RATED PARTITION
4	240 MIN FIRE-RESISTANCE RATED PARTITION

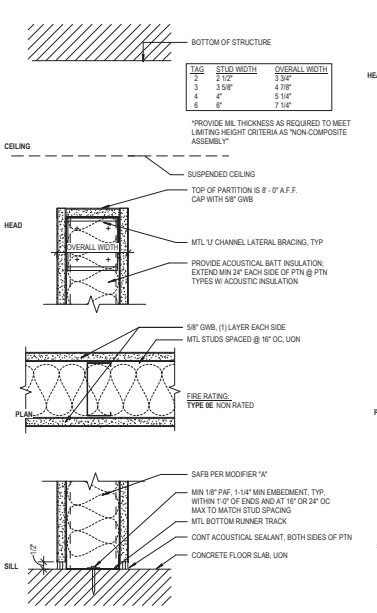
MTL STUD WIDTH LEGEND

TAG	STUD WIDTH
0	7/8" FURRING CHANNEL
1	1-5/8"
2	2-1/2"
3	3-5/8"
4	4"
5	5"
6	6"

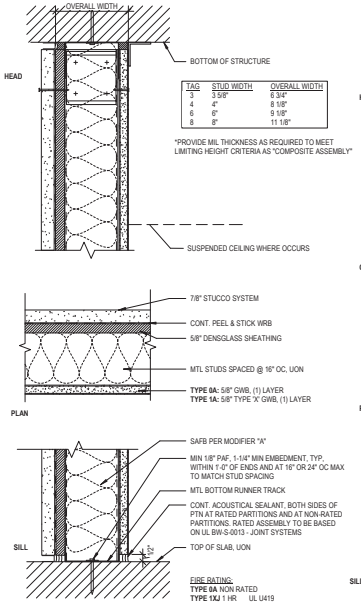
PARTITION MODIFIER LEGEND

THE FOLLOWING NOTES APPLY TO THE FULL EXTENT OF EACH PTN, WHERE "PARTITION MODIFIER" CHARACTER(S) ARE SHOWN ON THE TAG:

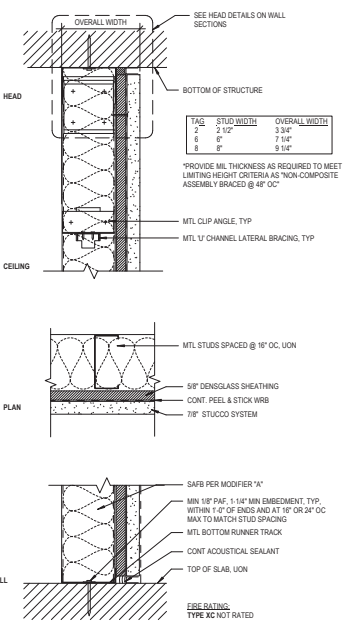
TAG	DESCRIPTION
A	PROVIDE SAFB: 2" THK AT 2-1/2" STUD; 3" THK AT 3-5/8", 4", 5" AND 6" STUDS, UON.



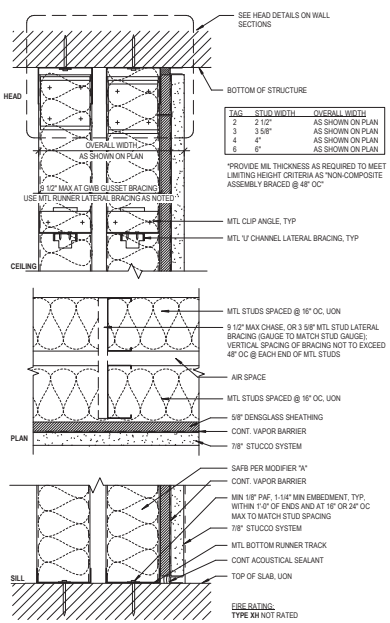
K TYPE K: PARTIAL HEIGHT: NON RATED
3" = 1'-0"



XA TYPE XA
3" = 1'-0"



XC TYPE XC: EXTERIOR STUCCO / MTL FRAME
3" = 1'-0"



XH TYPE XH: EXTERIOR STUCCO / MTL FRAME
3" = 1'-0"

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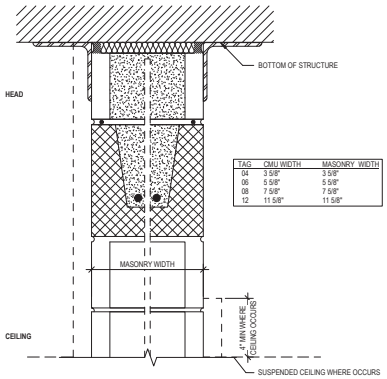
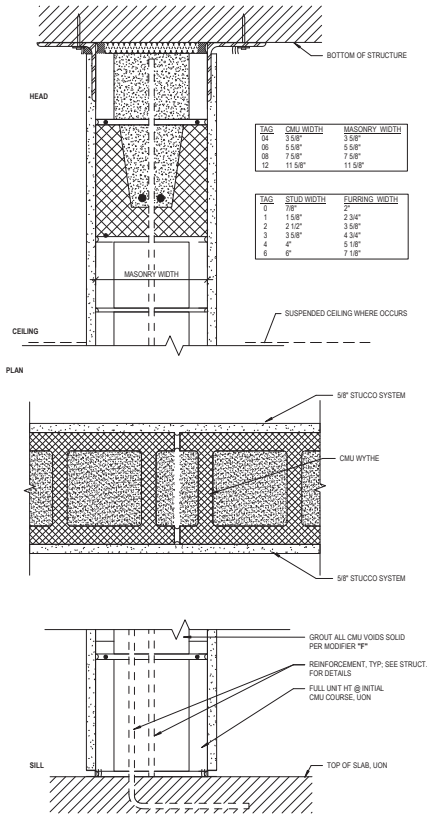
PARTITION TYPES

A-800



TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

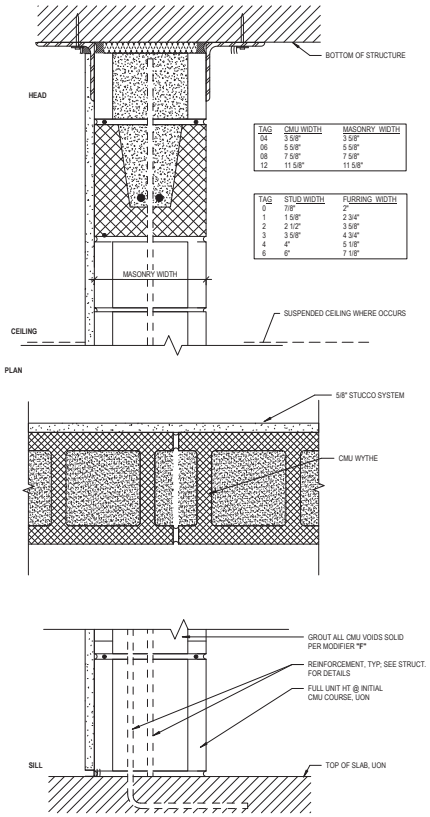
MA TYPE MA: CMU PTN
3" = 1'-0"



TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

TAG	STUD WIDTH	FURRING WIDTH
0	7/8"	2"
1	1 5/8"	2 3/4"
2	2 1/2"	3 5/8"
3	3 5/8"	4 3/4"
4	4"	5 1/8"
6	6"	7 1/8"

MB TYPE MB: STUCCO / CMU / STUCCO
3" = 1'-0"



TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

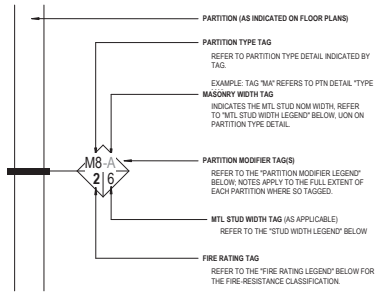
TAG	STUD WIDTH	FURRING WIDTH
0	7/8"	2"
1	1 5/8"	2 3/4"
2	2 1/2"	3 5/8"
3	3 5/8"	4 3/4"
4	4"	5 1/8"
6	6"	7 1/8"

MC TYPE MC: STUCCO / CMU
3" = 1'-0"

GENERAL NOTES - MASONRY PARTITIONS

1. REFER TO INDICATED DRAWINGS FOR HEAD DETAILS; HEAD CONDITION AS APPLICABLE TO SUPPORT CONDITION
2. ALL CMU PTN TYPES SHALL COMPLY WITH REINFORCING DETAILS AS INDICATED ON THE STRL DWGS.
3. SEE PARTITION TAGS FOR FIRE RATING OF INDIVIDUAL PARTITIONS

WALL TAG LEGEND



FIRE RATING LEGEND

THE COMPLETE ASSEMBLY OF EACH PARTITION WITH A FIRE RATING TAG SHALL COMPLY WITH ALL REQUIREMENTS OF THE FIRE-RESISTANCE RATING CLASSIFICATION:

TAG	RATING CLASSIFICATION
0	NON-RATED PARTITION
1	60 MIN FIRE-RESISTANCE RATED PARTITION
2	120 MIN FIRE-RESISTANCE RATED PARTITION
3	180 MIN FIRE-RESISTANCE RATED PARTITION
4	240 MIN FIRE-RESISTANCE RATED PARTITION

MASONRY WIDTH LEGEND

TAG	MASONRY WIDTH
4	3-5/8"
6	5-5/8"
8	7-5/8"
10	9-5/8"
12	11-5/8"

STUD WIDTH LEGEND

TAG	STUD WIDTH
0	7/8" FURRING CHANNEL
1	1-5/8"
2	2 1/2"
3	3-5/8"
4	4"
5	5"
6	6"

PARTITION MODIFIER LEGEND

THE FOLLOWING NOTES APPLY TO THE FULL EXTENT OF EACH PTN, WHERE "PARTITION MODIFIER" CHARACTER(S) ARE SHOWN ON THE TAG:

TAG	DESCRIPTION
A	GROUT ALL CMU VOIDS SOLID
B	FOR GWB FURRING, PROVIDE SAFB: 2" THK AT 2-1/2" STUDS; 3" THK AT 3-5/8", 4", 5" AND 6" STUDS
C	FOAMED IN PLACE INSULATION

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

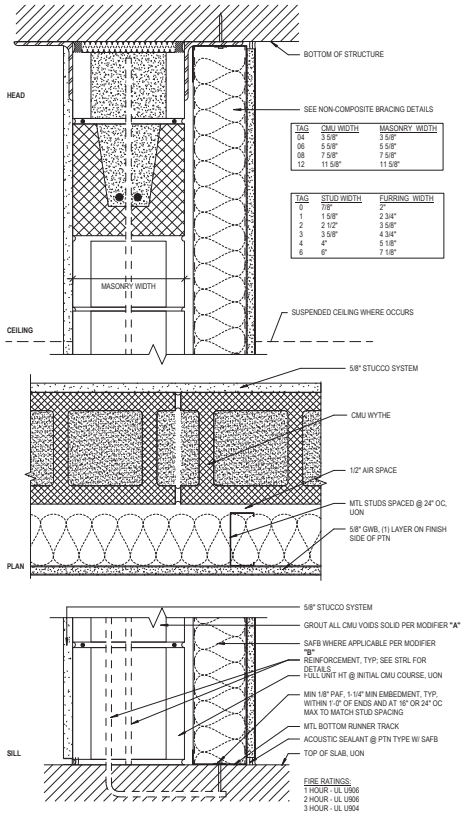
Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

PARTITION TYPES

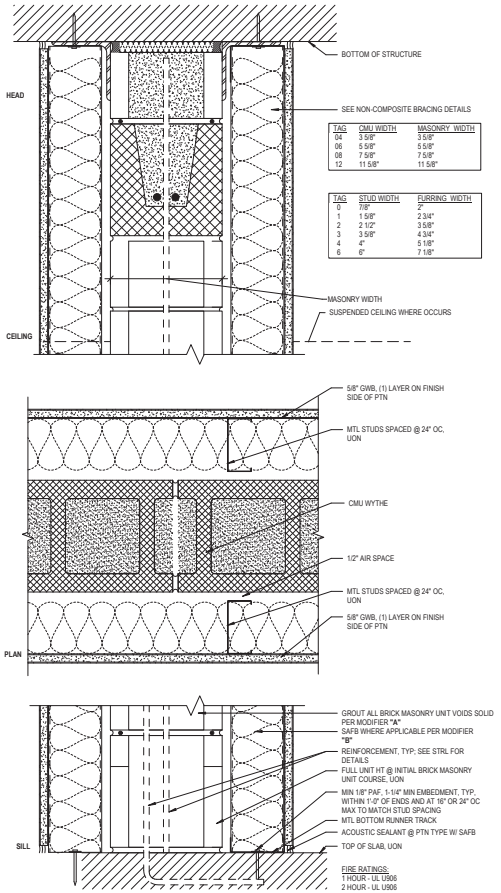
A-801



TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

TAG	STUD WIDTH	FURRING WIDTH
0	7/8"	2"
1	1 5/8"	2 3/4"
2	2 1/2"	3 5/8"
3	3 5/8"	4 3/4"
4	4"	5 1/8"
6	6"	7 1/8"

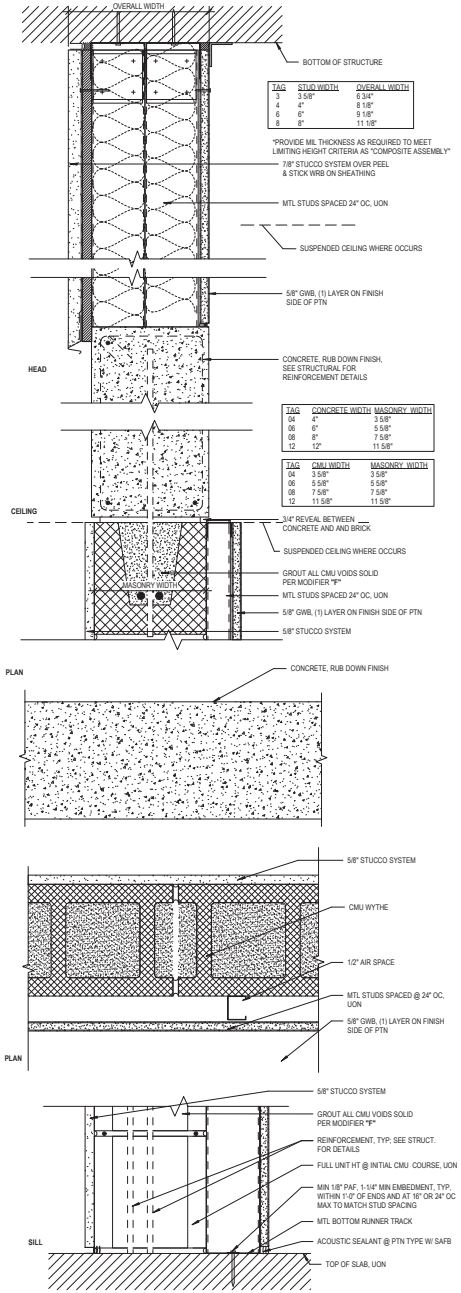
MD TYPE MD: STUCCO / CMU / GWB PTN
3" = 1'-0"



TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

TAG	STUD WIDTH	FURRING WIDTH
0	7/8"	2"
1	1 5/8"	2 3/4"
2	2 1/2"	3 5/8"
3	3 5/8"	4 3/4"
4	4"	5 1/8"
6	6"	7 1/8"

ME TYPE ME: GWB / CMU / GWB PTN
3" = 1'-0"



TAG	STUD WIDTH	OVERALL WIDTH
3	3 5/8"	6 3/4"
4	4"	8 1/8"
6	6"	9 1/8"
8	8"	11 1/8"

TAG	CONCRETE WIDTH	MASONRY WIDTH
04	4"	3 5/8"
06	6"	5 5/8"
08	8"	7 5/8"
12	12"	11 5/8"

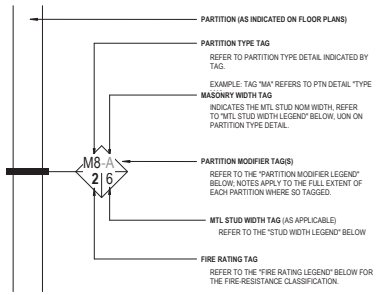
TAG	CMU WIDTH	MASONRY WIDTH
04	3 5/8"	3 5/8"
06	5 5/8"	5 5/8"
08	7 5/8"	7 5/8"
12	11 5/8"	11 5/8"

MF TYPE MF STACKED: STUCCO/ CMU / GYP, CONCRETE PTN
3" = 1'-0"

GENERAL NOTES - MASONRY PARTITIONS

1. REFER TO INDICATED DRAWINGS FOR HEAD DETAILS; HEAD CONDITION AS APPLICABLE TO SUPPORT CONDITION
2. ALL CMU PTN TYPES SHALL COMPLY WITH REINFORCING DETAILS AS INDICATED ON THE STRL DWGS.
3. SEE PARTITION TAGS FOR FIRE RATING OF INDIVIDUAL PARTITIONS

WALL TAG LEGEND



FIRE RATING LEGEND

THE COMPLETE ASSEMBLY OF EACH PARTITION WITH A FIRE RATING TAG SHALL COMPLY WITH ALL REQUIREMENTS OF THE FIRE-RESISTANCE RATING CLASSIFICATION:

TAG	RATING CLASSIFICATION
0	NON-RATED PARTITION
1	60 MIN FIRE-RESISTANCE RATED PARTITION
2	120 MIN FIRE-RESISTANCE RATED PARTITION
3	180 MIN FIRE-RESISTANCE RATED PARTITION
4	240 MIN FIRE-RESISTANCE RATED PARTITION

MASONRY WIDTH LEGEND

TAG	MASONRY WIDTH
4	3-5/8"
6	5-5/8"
8	7-5/8"
10	9-5/8"
12	11-5/8"

STUD WIDTH LEGEND

TAG	STUD WIDTH
0	7/8" FURRING CHANNEL
1	1-5/8"
2	2-1/2"
3	3-5/8"
4	4"
5	5"
6	6"

PARTITION MODIFIER LEGEND

THE FOLLOWING NOTES APPLY TO THE FULL EXTENT OF EACH PTN, WHERE "PARTITION MODIFIER" CHARACTER(S) ARE SHOWN ON THE TAG:

TAG	DESCRIPTION
A	GROUT ALL CMU VOIDS SOLID
B	FOR GWB FURRING, PROVIDE SAFB: 2" THK AT 2-1/2" STUDS; 3" THK AT 3-5/8", 4", 5" AND 6" STUDS
C	FOAMED IN PLACE INSULATION

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

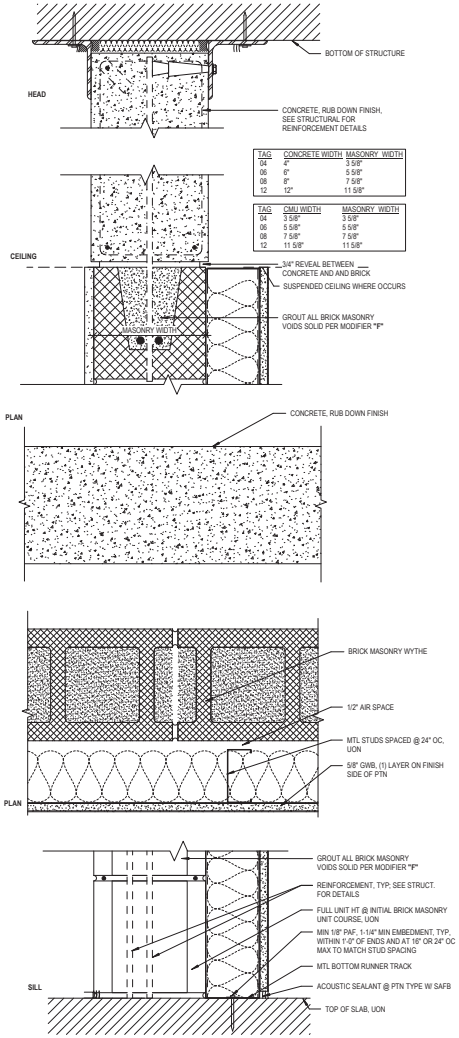
Project number
1932

DISTRIBUTION

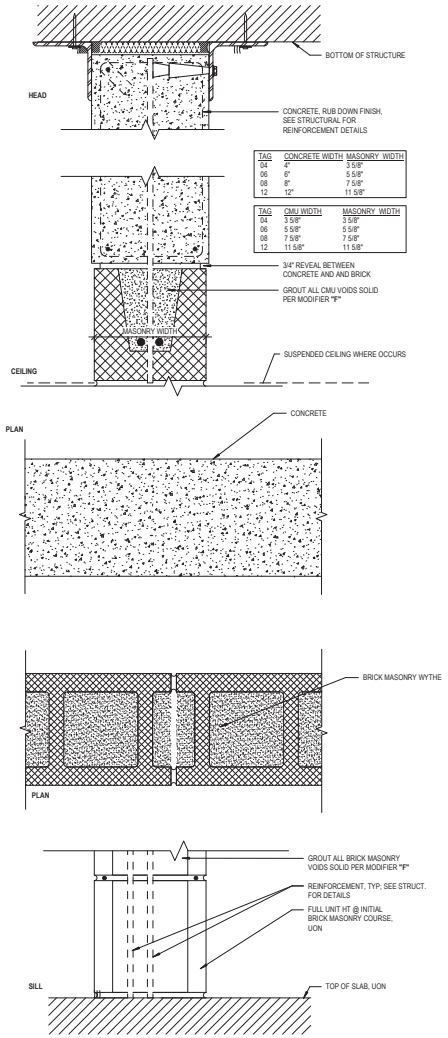
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

PARTITION TYPES

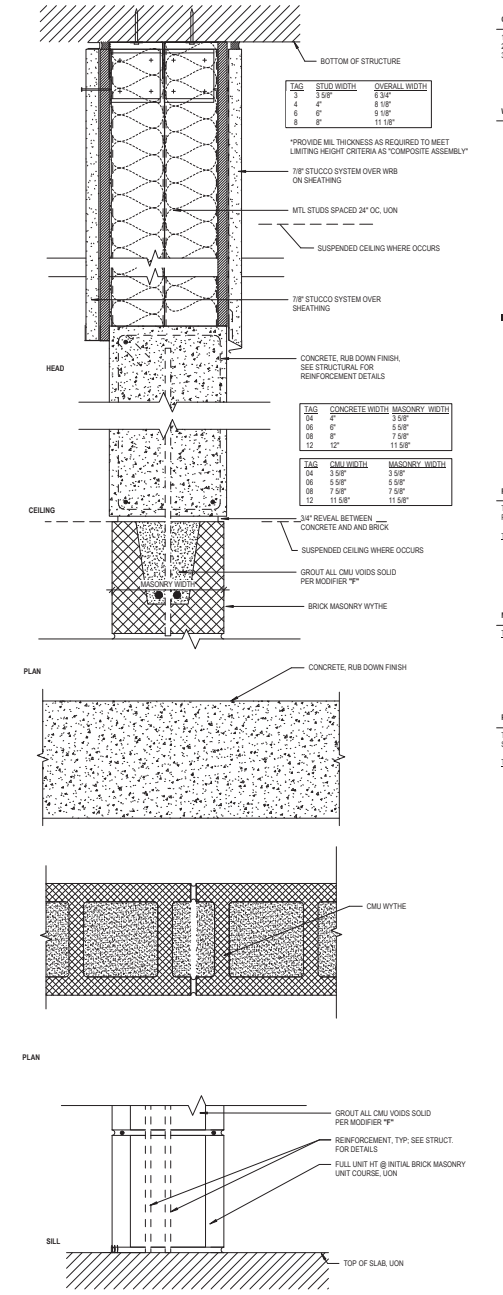
A-802



MG TYPE MG STACKED: BRICK MASONRY / GYP, CONCRETE PTN
3" = 1'-0"



MH TYPE MH STACKED: COLORED BRICK / CONCRETE PTN
3" = 1'-0"

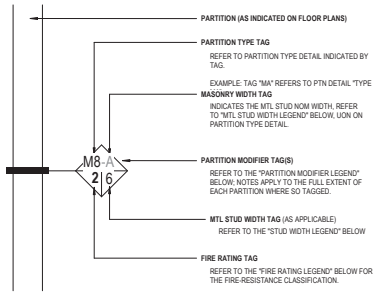


MJ TYPE MJ STACKED: STUCCO/ CMU / STUCCO, CONCRETE PTN
3" = 1'-0"

GENERAL NOTES - MASONRY PARTITIONS

1. REFER TO INDICATED DRAWINGS FOR HEAD DETAILS; HEAD CONDITION AS APPLICABLE TO SUPPORT CONDITION
2. ALL CMU PTN TYPES SHALL COMPLY WITH REINFORCING DETAILS AS INDICATED ON THE STRL DWGS.
3. SEE PARTITION TAGS FOR FIRE RATING OF INDIVIDUAL PARTITIONS

WALL TAG LEGEND



FIRE RATING LEGEND

THE COMPLETE ASSEMBLY OF EACH PARTITION WITH A FIRE RATING TAG SHALL COMPLY WITH ALL REQUIREMENTS OF THE FIRE-RESISTANCE RATING CLASSIFICATION:

TAG	RATING CLASSIFICATION
0	NON-RATED PARTITION
1	60 MIN FIRE-RESISTANCE RATED PARTITION
2	120 MIN FIRE-RESISTANCE RATED PARTITION
3	180 MIN FIRE-RESISTANCE RATED PARTITION
4	240 MIN FIRE-RESISTANCE RATED PARTITION

MASONRY WIDTH LEGEND

TAG	MASONRY WIDTH
4	3-5/8"
6	5-5/8"
8	7-5/8"
10	9-5/8"
12	11-5/8"

STUD WIDTH LEGEND

TAG	STUD WIDTH
0	7/8" FURRING CHANNEL
1	1-5/8"
2	2-1/2"
3	3-5/8"
4	4"
5	5"
6	6"

PARTITION MODIFIER LEGEND

THE FOLLOWING NOTES APPLY TO THE FULL EXTENT OF EACH PTN, WHERE "PARTITION MODIFIER" CHARACTER(S) ARE SHOWN ON THE TAG:

TAG	DESCRIPTION
A	GROUT ALL CMU VOIDS SOLID
B	FOR GWB FURRING, PROVIDE SAFB: 2" THK AT 2-1/2" STUDS; 3" THK AT 3-5/8", 4", 5" AND 6" STUDS
C	FOAMED IN PLACE INSULATION

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

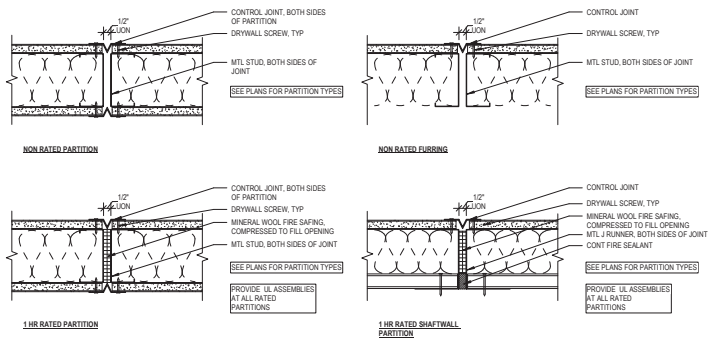
Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

PARTITION TYPES

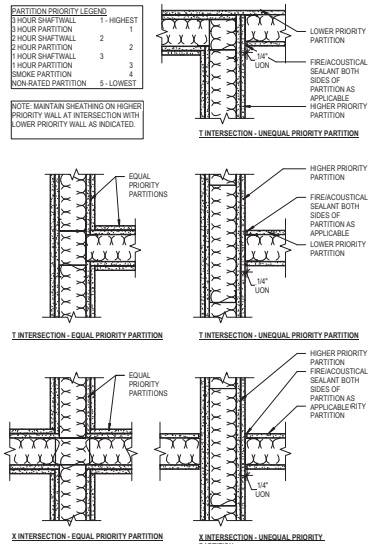
A-803



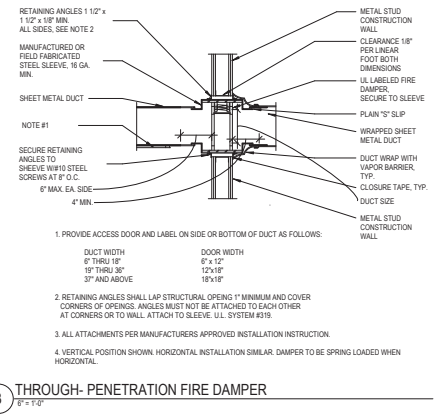
1 TYPICAL PTN CONTROL JOINTS DET
3" = 1'-0"

PARTITION PRIORITY LEGEND		
3 HOUR SHAFTWALL		1 - HIGHEST
3 HOUR PARTITION		1
2 HOUR SHAFTWALL	2	
2 HOUR PARTITION		2
1 HOUR SHAFTWALL	3	
1 HOUR PARTITION		3
SMOKE PARTITION		4
NON-RATED PARTITION		5 - LOWEST

NOTE: MAINTAIN SHEATHING ON HIGHER PRIORITY WALL AT INTERSECTION WITH LOWER PRIORITY WALL AS INDICATED.



2 TYPICAL PTN INTERSECTIONS DET
1 1/2" = 1'-0"



1. PROVIDE ACCESS DOOR AND LABEL ON SIDE OR BOTTOM OF DUCT AS FOLLOWS:

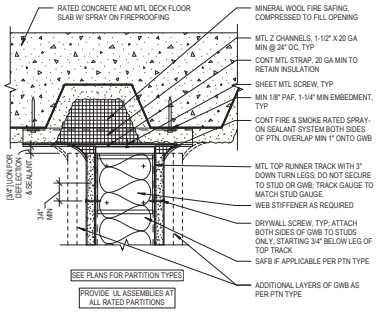
DUCT WIDTH	DOOR WIDTH
6" THRU 18"	6" x 12"
19" THRU 36"	12"x18"
37" AND ABOVE	18"x18"

2. RETAINING ANGLES SHALL LAP STRUCTURAL OPEING 1" MINIMUM AND COVER CORNERS OF OPEINGS. ANGLES MUST NOT BE ATTACHED TO EACH OTHER AT CORNERS OR TO WALL. ATTACH TO SLEEVE. U.L. SYSTEM #319.

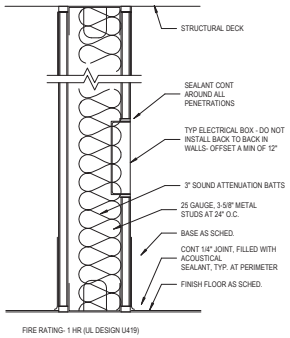
3. ALL ATTACHMENTS PER MANUFACTURERS APPROVED INSTALLATION INSTRUCTION.

4. VERTICAL POSITION SHOWN. HORIZONTAL INSTALLATION SIMILAR. DAMPER TO BE SPRING LOADED WHEN HORIZONTAL.

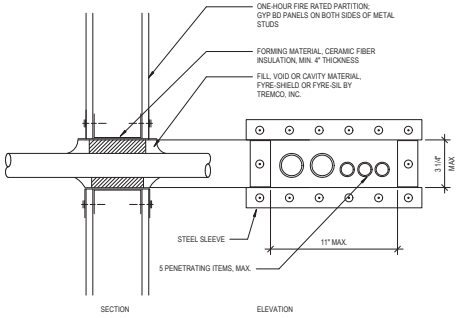
3 THROUGH- PENETRATION FIRE DAMPER
6" = 1'-0"



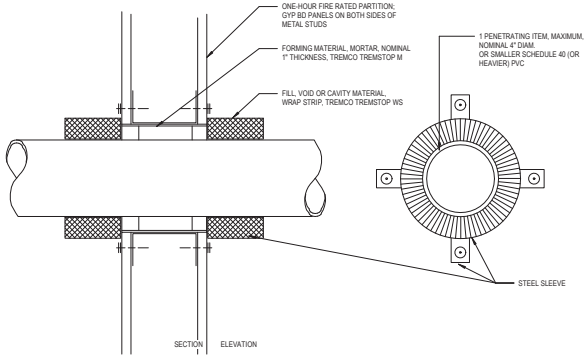
4 TYP RATED PTN HEAD PARALLEL TO MTL DECK W/ FIREPROOFING
3" = 1'-0"



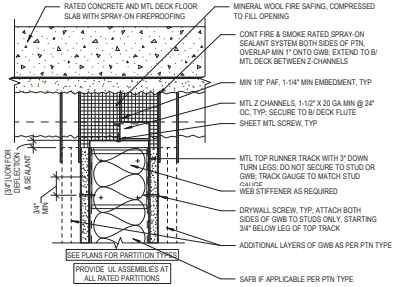
5 TYPICAL PTN INTERSECTIONS DET
3" = 1'-0"



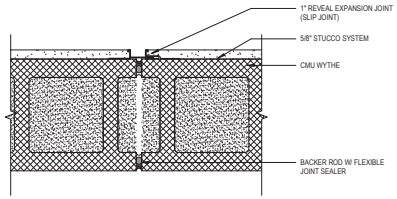
6 THROUGH- PENETRATION FIRESTOP SYSTEM 4
3" = 1'-0"



7 THROUGH- PENETRATION FIRESTOP SYSTEM 5
3" = 1'-0"



8 TYP RATED PTN HEAD PERPENDICULAR TO MTL DECK W/ FIREPROOFING
3" = 1'-0"



9 TYPICAL PTN CONTROL JOINTS DET
3" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

PARTITION DETAILS

A-804

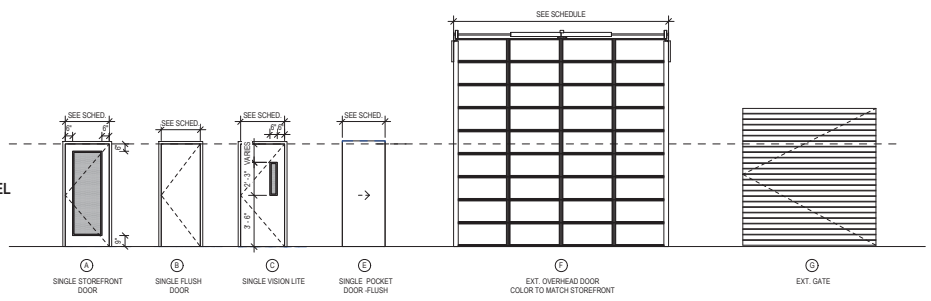
DOOR SCHEDULE

DOOR #	FROM ROOM	#	TO ROOM	#	DOOR TYPE	DOOR MAT'L	DOOR FINISH	DOOR NOMINAL SIZE WIDTH	DOOR NOMINAL SIZE HEIGHT	DOOR NOMINAL SIZE TH	FRAME TYPE	FRAME MAT'L	FRAME FINISH	DETAIL/SHEET HEAD	DETAIL/SHEET JAMB	SILL	FIRE RATING	HARDWARE SET	CARD READER	COMMENTS	DOOR #
100	EXTERIOR	-	VESTIBULE	100	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 9 1/2"	2"	-	ALUM	FACTORY FINISH	1 / A-831	12, 13 / A-831	8 / A-831		01			100
100B	VESTIBULE	100	HALLWAY	104	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	2"	-	ALUM	FACTORY FINISH	4 / A-832	3 / A-832	5 / A-811		06A	Yes		100B
101A	EXTERIOR	-	TRAINING ROOM	101	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 9 1/2"	2"	-	ALUM	FACTORY FINISH	1 / A-831	12 / A-831	8 / A-831		01			101A
101B	VESTIBULE	100	TRAINING ROOM	101	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 9 1/2"	2"	-	ALUM	FACTORY FINISH	14 / A-832	4 / A-833	5 / A-811		06A	Yes		101B
102	TRAINING ROOM	101	WC	102	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811		10			102
103	TRAINING ROOM	101	STORAGE	103	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811		09			103
104	HALLWAY	104	HALLWAY	113	C	WD / GLASS	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	12			104
105	HALLWAY	104	GENERAL OFFICE	105	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	2"	-	ALUM	FACTORY FINISH	4 / A-832	3 / A-832	5 / A-811		13			105
109	HALLWAY	109	PATIO	140	C	HM / GLASS	PAINTED	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	6 / A-811		02	Yes	PROGRAMMABLE KEYPAD	109
110	HALLWAY	109	FITNESS	110	A	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"		-	ALUM	FACTORY FINISH	4 / A-832	3 / A-832	2 / ID-401		13			110
111	HALLWAY	109	DATA	111	D	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811		08A	Yes		111
112	HALLWAY	109	JAN	112	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811		08			112
113	HALLWAY	109	HALLWAY	113	C	WD / GLASS	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	12			113
114	HALLWAY	113	DORM	114	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			114
115	HALLWAY	113	DORM	115	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			115
116	HALLWAY	113	DORM	116	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			116
117	HALLWAY	113	WC	117	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			117
118	HALLWAY	113	DORM	118	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			118
119	HALLWAY	113	WC	119	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			119
120	HALLWAY	113	DORM	120	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			120
121	HALLWAY	113	WC	121	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			121
122	HALLWAY	113	DORM	122	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			122
123	HALLWAY	113	WC	123	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			123
124	HALLWAY	113	DORM	124	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			124
125	HALLWAY	113	DORM	125	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			125
126	HALLWAY	113	DORM	126	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			126
127	HALLWAY	113	DORM	127	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	10			127
128A	HALLWAY	113	CAPTAIN'S OFFICE	128A	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	07			128A
128B	CAPTAIN'S OFFICE	128A	CAPTAIN'S DORM	128B	E	WD	STAINED	3' - 0"	6' - 8"	1 1/2"	3	WD	PAINTED	7 / A-811	8 / A-811	5 / A-811		15			128B
128C	CAPTAIN'S DORM	128B	WC	128C	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	11			128C
130A	HALLWAY	113	CAPTAIN'S OFFICE	130A	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	07			130A
130B	CAPTAIN'S OFFICE	130A	CAPTAIN'S DORM	130B	E	WD	STAINED	3' - 0"	6' - 8"	1 1/2"	3	WD	PAINTED	7 / A-811	8 / A-811	5 / A-811		16			130B
130C	CAPTAIN'S OFFICE	130A	WC	130C	B	WD	STAINED	3' - 0"	7' - 0"	1 3/4"	1	HM	PAINTED	4 / A-811	3/ A-811	5 / A-811	20 MIN	11			130C
132A	HALLWAY	104	APPARATUS BAY	132	C	HM / GLASS	PAINTED	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	12 / A-811	45 MIN	05			132A
132B	DINING	108	APPARATUS BAY	132	C	HM / GLASS	PAINTED	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	12 / A-811	45 MIN	05			132B
132C	EXTERIOR	-	APPARATUS BAY	132	B	HM	PAINTED	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	6 / A-811		04	Yes		132C
132D	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132D
132E	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132E
132F	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132F
132G	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132G
132J	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132J
132K	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132K
132L	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132L
132M	EXTERIOR	-	APPARATUS BAY	132	F	ALUM / GLASS	FACTORY FINISH	14' - 0"	14' - 0"	1 3/4"	-	-	-	9, 11 / A-811	10 / A-811	9 / A-8111		14			132M
133	APPARATUS BAY	132	EMS	133	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06A	Yes		133
135	APPARATUS BAY	132	LAUNDRY	135	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06			135
136	APPARATUS BAY	132	BUNKER GEAR	136	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06			136
137	APPARATUS BAY	132	BIOHAZARD	137	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06			137
138	APPARATUS BAY	132	STORAGE	138	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06			138
139	APPARATUS BAY	132	SBCA WORKSHOP STORAGE	139	B	ALUM / GLASS	FACTORY FINISH	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	5 / A-811		06			139
140A	EXTERIOR	-	GENERATOR YARD	-	G	HARDIE BOARD	PAINTED	9' - 1"	9' - 5"		-	-	-	-	-	-		16			140A
140B	EXTERIOR	-	GENERATOR YARD	-	G	HARDIE BOARD	PAINTED	4' - 0"	9' - 5"		-	-	-	-	-	-		16			140B
141	EXTERIOR	-	MECH / ELEC	141	B	HM	PAINTED	3' - 0"	7' - 0"	1 3/4"	2	HM	PAINTED	2 / A-811	1 / A-811	6 / A-811		04	Yes		141

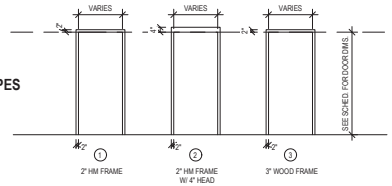
GENERAL NOTES - STOREFRONT

1. ALL EXTERIOR AND INTERIOR STOREFRONT TO BE FACTORY PAINTED BLACK. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN.

DOOR PANEL TYPES



FRAME TYPES



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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number 1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

DOOR SCHEDULE

A-810

HARDWARE SCHEDULE

HARDWARE GROUP NO. 01
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1EA	EXIT DEVICE	EX76 CVR	630	ADA
1EA	RIM CYLINDER	20-057 ICX	626	SCH
1EA	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	IVE
1EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1EA	BLADE STOP SPACER	4040XP-61	689	LCN
1EA	THRESHOLD	65A-223	A	ZER

BALANCE OF DOOR HARDWARE TO BE SUPPLIED BY ALUMINUM SUPPLIER
OPENING TO COMPLY WITH LEVEL E TESTING

HARDWARE GROUP NO. 02
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1EA	POWER TRANSFER	EPT10 CON	689	VON
1EA	ELEC FIRE EXIT HARDWARE	QEL-WS-9927-L-F-06-CON 24 VDC	626	VON
1EA	RIM CYLINDER	20-057 ICX	626	SCH
1EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1EA	GASKETING	188SBK PSA	BK	ZER
1EA	THRESHOLD	REFER TO DOOR DETAIL		
1EA	CONTROLLER	CTE-MT11-485-B 12/24 VDC/POE	B	SCE
1EA	POWER SUPPLY	PS902 900.2RS 120/240 VAC	LGR	SCE

KEYPAD CONTROL FOR ACCESS
OPENING TO COMPLY WITH LEVEL E TESTING

HARDWARE GROUP NO. 03
NOT USED

HARDWARE GROUP NO. 04
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5 NRP	630	IVE
1EA	POWER TRANSFER	EPT10 CON	689	VON
1EA	ELEC FIRE EXIT HARDWARE	QEL-WS-9927-L-F-06-CON 24	626	VON
1EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER
1EA	THRESHOLD	566A-223	A	ZER
1EA	POWER SUPPLY	PS902 900.2RS 120/240 VAC	LGR	SCE

OPENING TO COMPLY WITH LEVEL E TESTING

HARDWARE GROUP NO. 05
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	CLASSROOM LOCK	ND70PD RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER
1EA	THRESHOLD	65A-223	A	ZER
1EA	DOOR SWEEP	328AA	AA	ZER

HARDWARE GROUP NO. 06
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	DEADBOLT	MS1850S	628	ADA
1EA	MORTISE CYLINDER	20-061	626	SCH
1EA	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	IVE
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	DOOR SWEEP	328AA	AA	ZER

BALANCE OF HARDWARE BY ALUM SUPPLIER

HARDWARE GROUP NO. 06A
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	DEADBOLT	MS1850S	628	ADA
1EA	MORTISE CYLINDER	20-061 36 -083	626	SCH
1EA	MAGNETIC LOCK	M490P	628	SCE
26A	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	IVE
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	THRESHOLD	REFER TO DOOR DETAIL		
1EA	PUSH BUTTON	621RDEX	629	SCE
1EA	MOTION SENSOR	SCANII	BLK	SCE

BALANCE OF HARDWARE BY ALUM SUPPLIER
CARD READER AND POWER SUPPLY BY SECURITY SUB TO RELEASE MAG LOCK FOR ACCESS

HARDWARE GROUP NO. 07
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	ENTRANCE LOCK	ND53PRD RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	KICKPLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 08
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	STOREROOM LOCK	ND80PD RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	KICKPLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	SILENCER	SR64	GRY	IVE

HARDWARE GROUP NO. 08A
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
2EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	ELECTRIC HINGE	5BB1 4.5 X 4.5 CON TWRCON12V/24VDC	652	IVE
1EA	STOREROOM LOCK	ND80PD RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	KICKPLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	SILENCER	SR64	GRY	IVE
1EA	WIRE HARNESS	CON-32		SCH

CARD READER AND POWER SUPPLY BY SECURITY SUB TO RELEASE LOCK FOR ACCESS

HARDWARE GROUP NO. 09
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	CLASSROOM LOCK	ND70PD RHO	626	SCH
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 10
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	PRIVACY LOCK	ND40S RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1EA	KICKPLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 11
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	PRIVACY LOCK	ND40S RHO	626	SCH
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 12
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	PASSAGE SET	ND40S RHO	626	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	630	IVE
1EA	KICKPLATE	8400 10" X 2" LDW B-CS	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE
1EA	GASKETING	188SBK PSA	BK	ZER

HARDWARE GROUP NO. 13
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
3EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1EA	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	SCH
1EA	SURFACE CLOSER	4040XP RW/PA	630	IVE
1EA	WALL STOP	WS406/407CCV	630	IVE

BALANCE OF HARDWARE BY ALUM SUPPLIER

HARDWARE GROUP NO. 14
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR

HARDWARE BY DOOR MANUFACTURER

HARDWARE GROUP NO. 15
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
1EA	POCKET DOOR FRAME	9850	-	JOH
1EA	POCKET LOCK	2001 SDL-1	626	ACC
1EA	FLUSH PULL CYLINDER (OUTSIDE)	S2002C	626	ACC
1EA	FLUSH PULL BLANK (INSIDE)	S2002B	626	ACC
1EA	ADA DOOR PULL	1069	630	TRI

HARDWARE GROUP NO. 16
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
1EA	POCKET DOOR FRAME	9850	-	JOH
1EA	POCKET LOCK	2001 SDL-1	626	ACC
1EA	FLUSH PULL CYLINDER (OUTSIDE)	S2002C	626	ACC
1EA	FLUSH PULL BLANK (INSIDE)	S2002B	626	ACC

HARDWARE GROUP NO. 17
Provide each SGL door(s) with the following:

QTY	DESCRIPTION	CATALOGUE NUMBER	FINISH	MFR
1EA	D&D KEY-LOCKABLE GATE LATCH		BLK	LOKK LATCH
3 EA	D&D SELF CLOSING HINGE	TRUCLOSE	BLK	DDTECH

Wannemacher Jensen Architects, Inc.
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(727) 822-5566 fax (727) 823-5475
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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

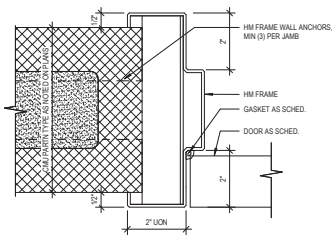
Project number
1932

DISTRIBUTION

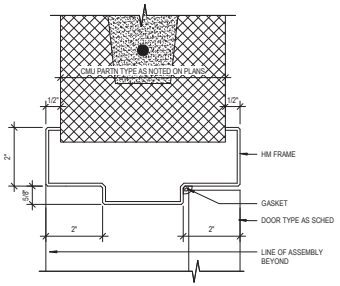
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

DOOR HARDWARE SCHEDULE

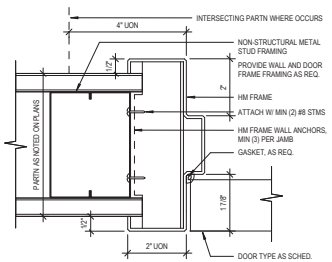
A-811



1 JAMB DETAIL
6" = 1'-0"



2 HEAD DETAIL
6" = 1'-0"



3 JAMB DETAIL
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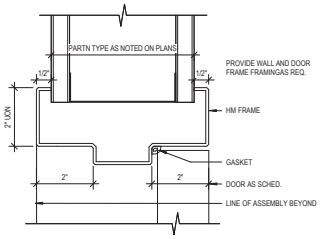
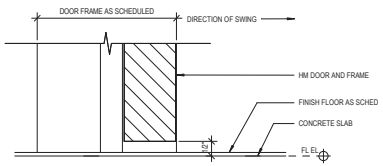
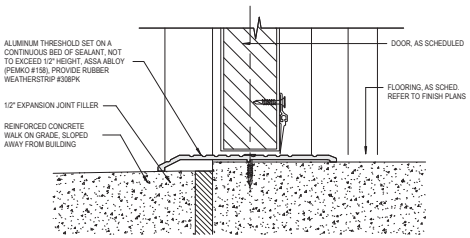


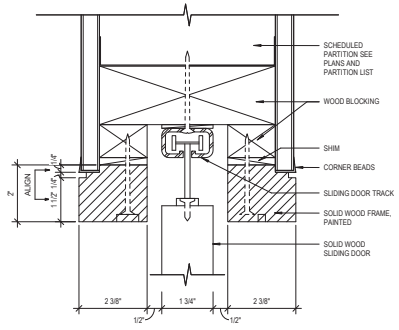
4 HEAD DETAIL
6" = 1'-0"



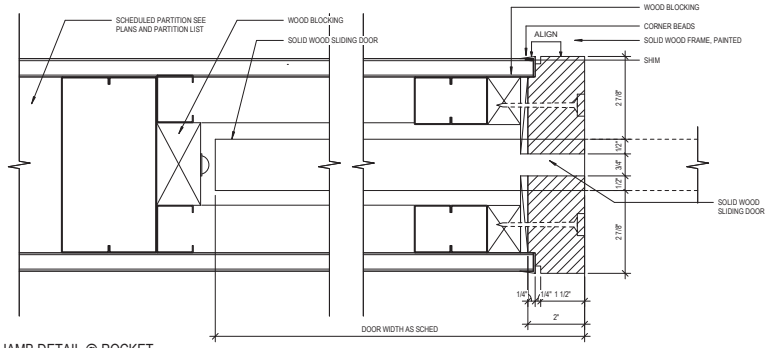
5 THRESHOLD - DOOR BOTTOM DETAIL
6" = 1'-0"



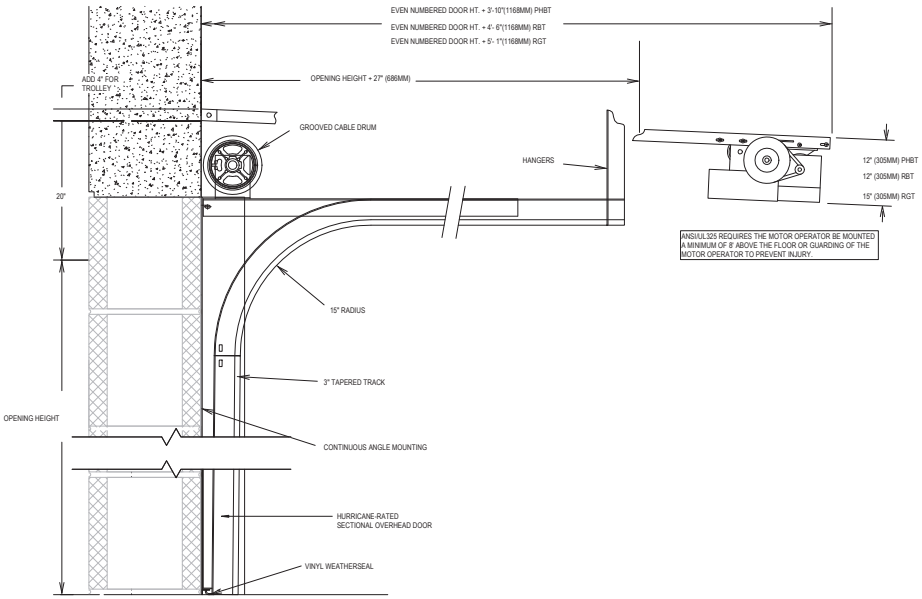
6 EXTERIOR THRESHOLD - DOOR BOTTOM DETAIL
6" = 1'-0"



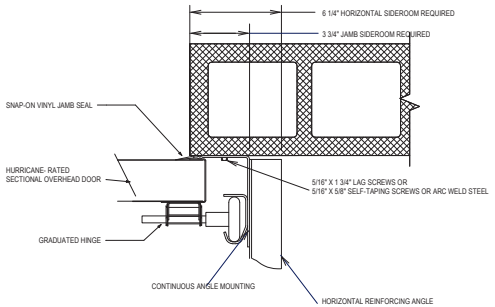
7 HEAD DETAIL @ POCKET DOOR
6" = 1'-0"



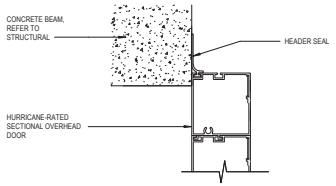
8 JAMB DETAIL @ POCKET
6" = 1'-0"



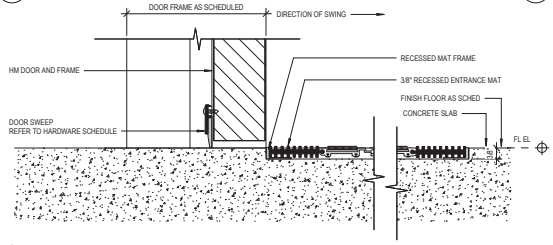
9 HURRICANE-RATED SECTIONAL ALUM/ GLASS DOOR
3" = 1'-0"



10 HURRICANE-RATED SECTIONAL ALUM/ GLASS DOOR JAMB
3" = 1'-0"



11 HURRICANE-RATED SECTIONAL DOOR HEADER
6" = 1'-0"



12 THRESHOLD - DOOR BOTTOM DETAIL @ RECESSED MAT
6" = 1'-0"

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

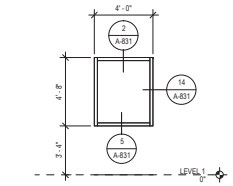
DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

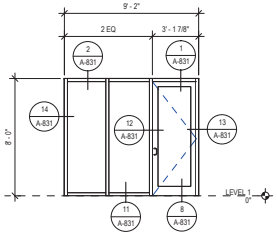
DOOR DETAILS

A-812

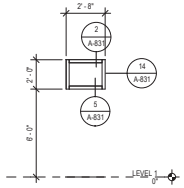
EXTERIOR ELEVATIONS



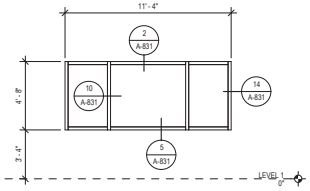
1 X-A
1/4" = 1'-0"



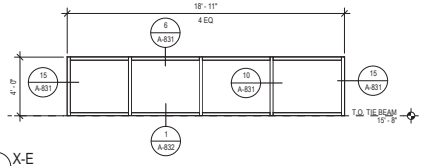
2 X-B
1/4" = 1'-0"



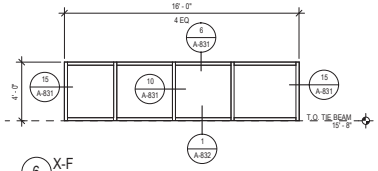
3 X-C
1/4" = 1'-0"



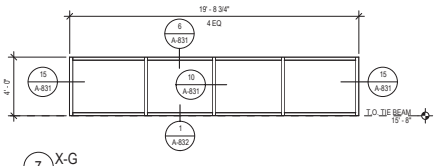
4 X-D
1/4" = 1'-0"



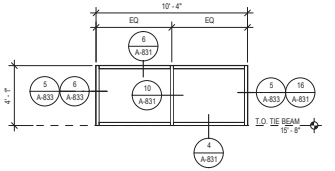
5 X-E
1/4" = 1'-0"



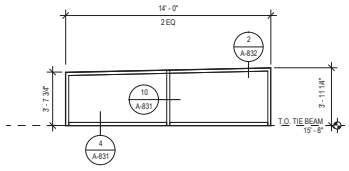
6 X-F
1/4" = 1'-0"



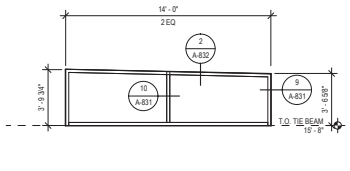
7 X-G
1/4" = 1'-0"



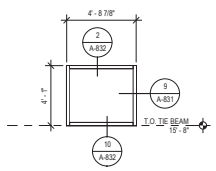
8 X-H
1/4" = 1'-0"



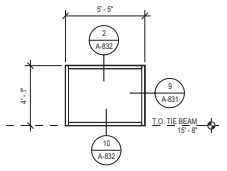
9 X-J
1/4" = 1'-0"



10 X-K
1/4" = 1'-0"

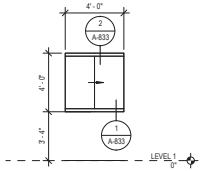


11 X-L
1/4" = 1'-0"

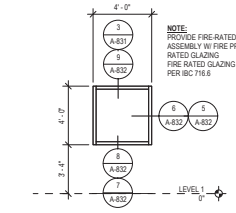


12 X-M
1/4" = 1'-0"

INTERIOR ELEVATIONS

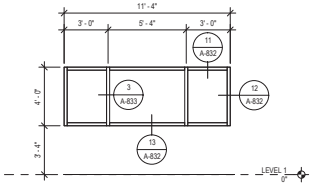


13 A
1/4" = 1'-0"



NOTE:
PROVIDE FIRE-RATED WINDOW ASSEMBLY W/ FIRE PROTECTION-RATED GLAZING.
FIRE RATED GLAZING MARKING: **W-60**, PER IBC 716.6

14 B
1/4" = 1'-0"



15 C
1/4" = 1'-0"

GENERAL NOTES - STOREFRONT

1. ALL EXTERIOR AND INTERIOR STOREFRONT TO BE FACTORY PAINTED BLACK. REFER TO SPECIFICATIONS FOR BASIS OF DESIGN.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

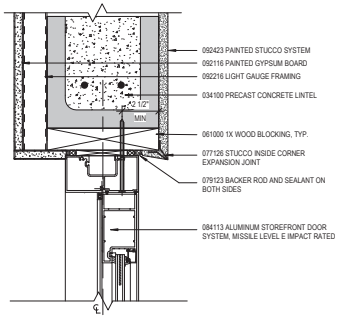
Project number
1932

DISTRIBUTION

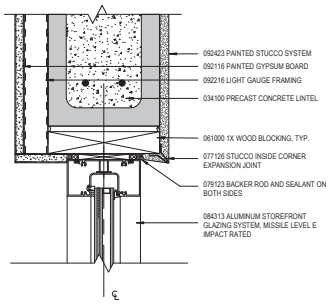
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

STOREFRONT ELEVATIONS

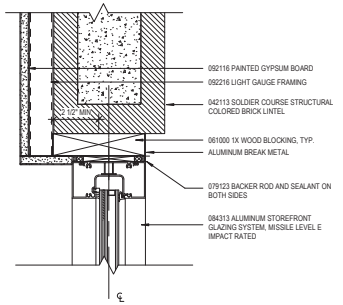
A-830



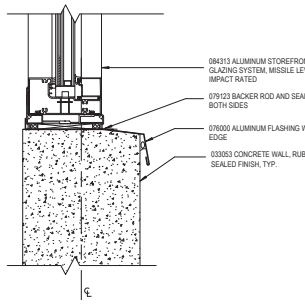
1 EXT STOREFRONT - DOOR HEAD @ CMU WALL
3" = 1'-0"



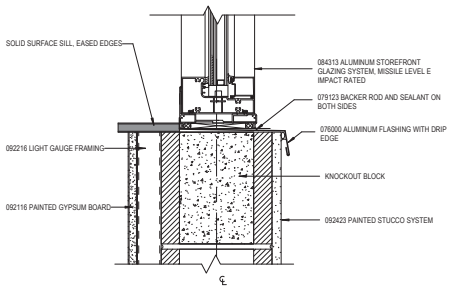
2 EXT STOREFRONT - HEAD @ CMU
3" = 1'-0"



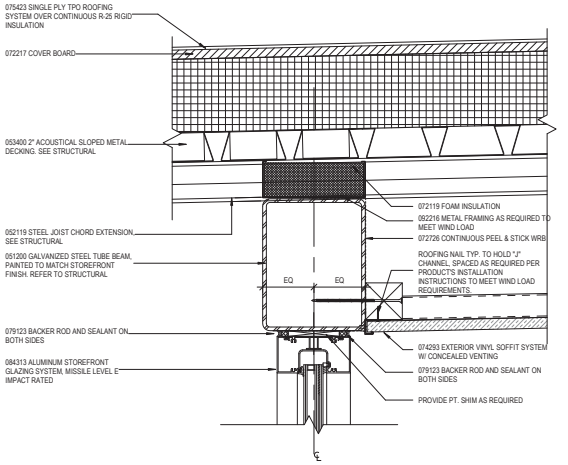
3 EXT STOREFRONT - HEAD @ SOLDIER BRICK LINTEL (A)
3" = 1'-0"



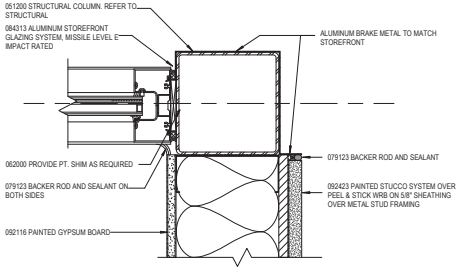
4 EXT STOREFRONT - SILL @ CONC (A)
3" = 1'-0"



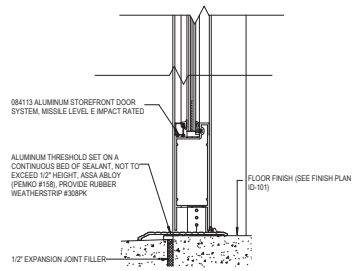
5 EXT STOREFRONT - SILL @ CMU / STUCCO
3" = 1'-0"



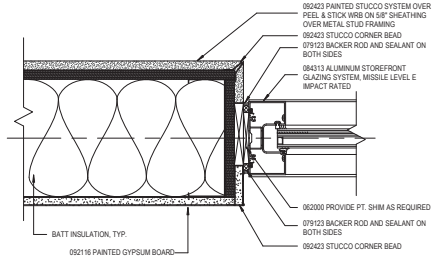
6 EXT STOREFRONT - HEAD @ CLERESTORY (A)
3" = 1'-0"



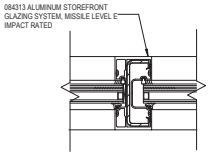
7 EXT STOREFRONT - VERTICAL MULLION @ CORNER (A)
3" = 1'-0"



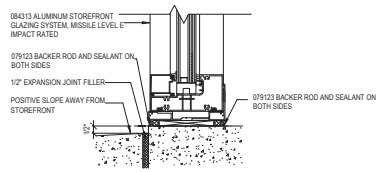
8 EXT STOREFRONT - DOOR THRESHOLD
3" = 1'-0"



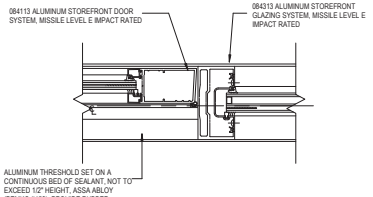
9 EXT STOREFRONT - LEFT JAMB @ MTL FRAME
3" = 1'-0"



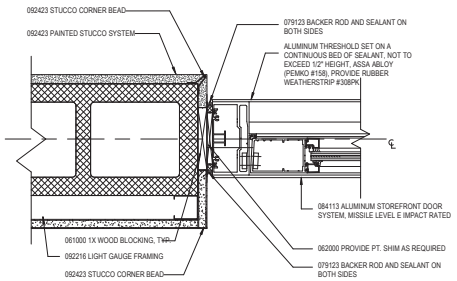
10 EXT STOREFRONT - VERTICAL MULLION
3" = 1'-0"



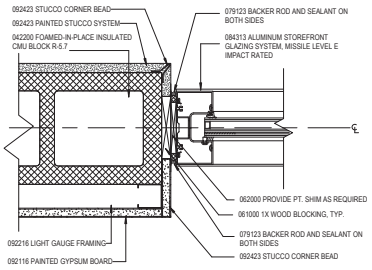
11 EXT STOREFRONT - SILL
3" = 1'-0"



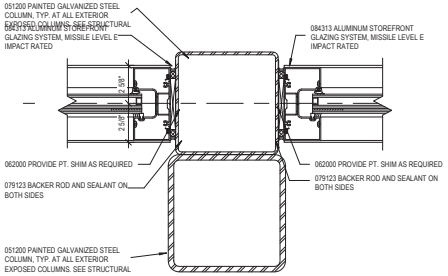
12 EXT STOREFRONT - LEFT DOOR JAMB @ MULLION
3" = 1'-0"



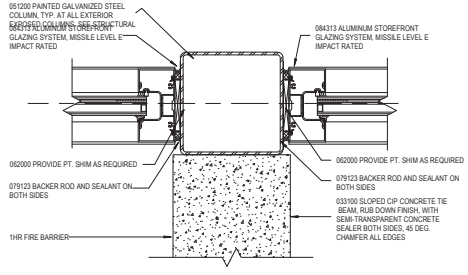
13 EXT STOREFRONT - LEFT DOOR JAMB @ WALL
3" = 1'-0"



14 EXT STOREFRONT - LEFT JAMB
3" = 1'-0"



15 EXT STOREFRONT - VERT. MULLION @ DBL STEEL COLUMN
3" = 1'-0"



16 EXT STOREFRONT - VERTICAL MULLION @ CONCRETE WALL
3" = 1'-0"

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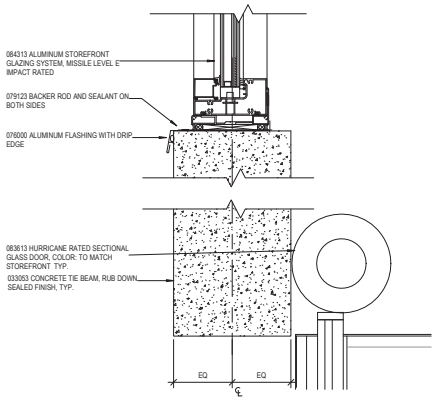
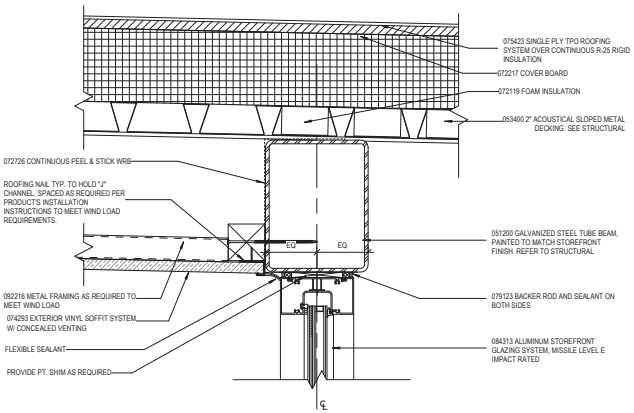
STOREFRONT DETAILS

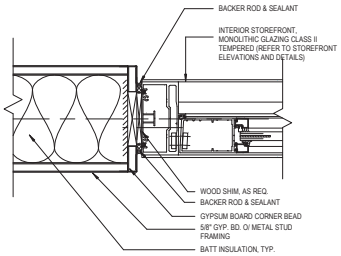
A-831



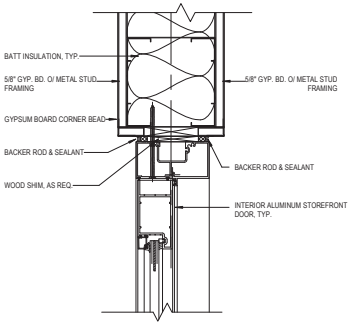
1 EXT STOREFRONT - SILL @ CONC (B)
3" = 1'-0"



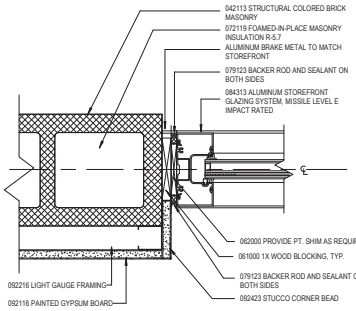
2 EXT STOREFRONT - HEAD @ CLERESTORY (B)
3" = 1'-0"



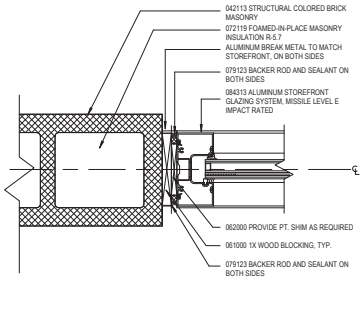
3 INT STOREFRONT - DOOR JAMB @ MTL FRAME
3" = 1'-0"



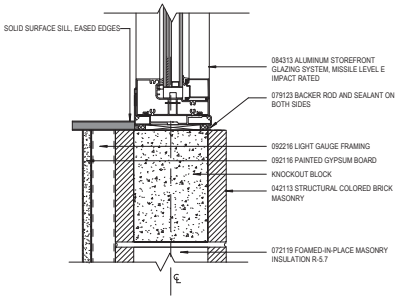
4 INT STOREFRONT - DOOR HEAD @ MTL FRAME
3" = 1'-0"



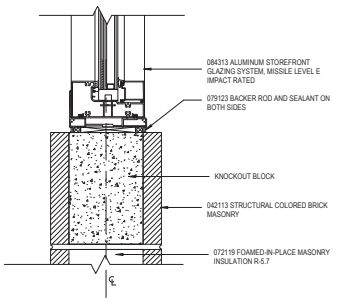
5 EXT STOREFRONT - LEFT JAMB @ BRICK(A)
3" = 1'-0"



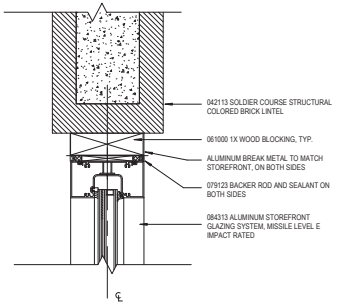
6 EXT STOREFRONT - LEFT JAMB @ BRICK(B)
3" = 1'-0"



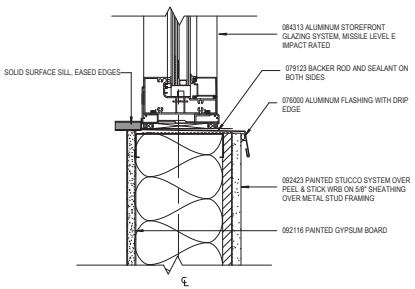
7 INT STOREFRONT - SILL @ BRICK (A)
3" = 1'-0"



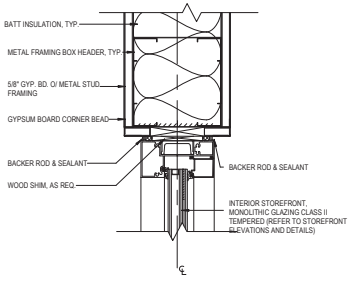
8 INT STOREFRONT - SILL @ BRICK (B)
3" = 1'-0"



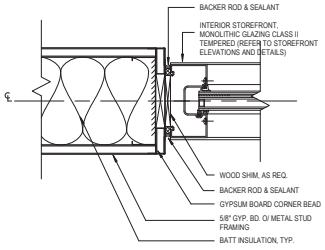
9 EXT STOREFRONT - HEAD @ SOLDIER BRICK LINTEL (B)
3" = 1'-0"



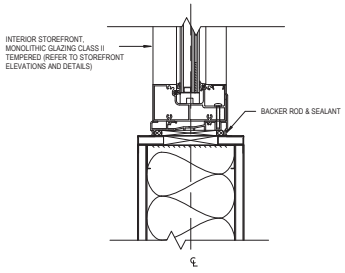
10 EXT STOREFRONT - SILL @ METAL FRAME
3" = 1'-0"



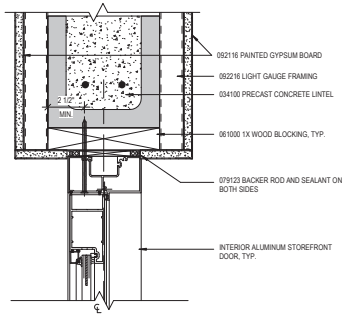
11 INT STOREFRONT - HEAD @ MTL FRAME
3" = 1'-0"



12 INT STOREFRONT - JAMB @ MTL FRAME
3" = 1'-0"



13 INT STOREFRONT - WINDOW SILL
3" = 1'-0"



14 INT STOREFRONT - DOOR HEAD @ CMU WALL
3" = 1'-0"

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THE DRAWINGS TO CONVEY A CLEAR CONCEPT AND DESIGN INTENT FOR THE CONSTRUCTION OF THE WORK DESCRIBED IN THE BOOK. BIDDERS ARE ENCOURAGED TO VISIT THE SITE AND BECOME FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. COMMENCEMENT OF WORK BY THE CONTRACTOR SHALL BE CONSTRUED AS AN ACCEPTANCE OF THE SITE CONDITIONS AS SUITABLE FOR THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND SITE CONDITIONS BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.

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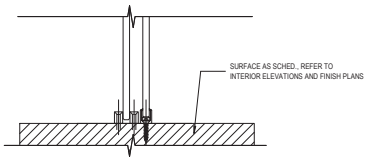
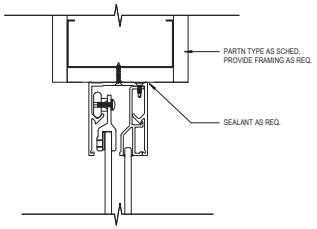
STOREFRONT DETAILS

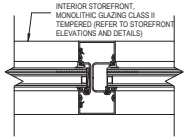
A-832



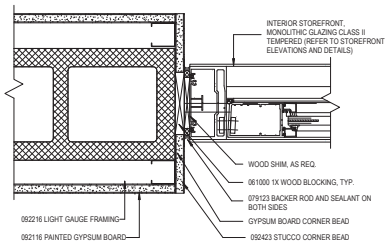
1 INT PASS THRU WINDOW SILL
6" = 1'-0"



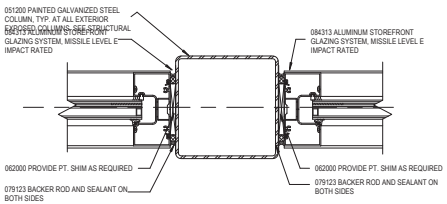
2 INT PASS THRU WINDOW HEAD
6" = 1'-0"



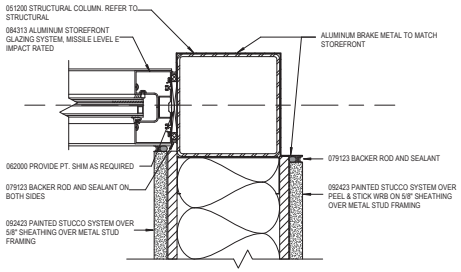
3 INT STOREFRONT - VERTICAL MULLION
3" = 1'-0"



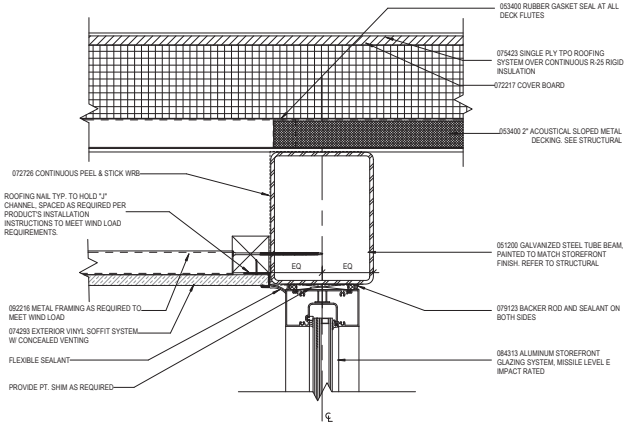
4 INT STOREFRONT - DOOR JAMB @ CMU_
3" = 1'-0"



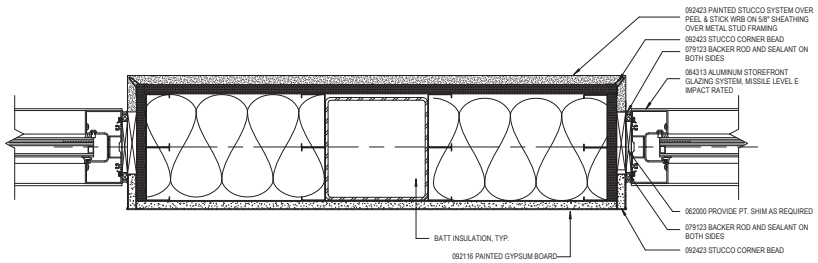
5 EXT STOREFRONT - VERT. MULLION @ STEEL COLUMN
3" = 1'-0"



6 EXT STOREFRONT - VERTICAL MULLION @ CORNER (B)
3" = 1'-0"



7 EXT STOREFRONT - HEAD @ CLERESTORY (C)
3" = 1'-0"



8 EXT STOREFRONT - LEFT JAMB @ MTL FRAME (B)
3" = 1'-0"

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STOREFRONT DETAILS

A-833

1 EXTERIOR VIEW - NORTHEAST
12" = 1'-0"

2 EXTERIOR VIEW - NORTHWEST
12" = 1'-0"

3 EXTERIOR VIEW - SOUTHEAST
12" = 1'-0"

4 EXTERIOR VIEW - SOUTHWEST
12" = 1'-0"

NOTE: LANDSCAPE NOT SHOWN FOR CLARITY. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR MORE INFORMATION

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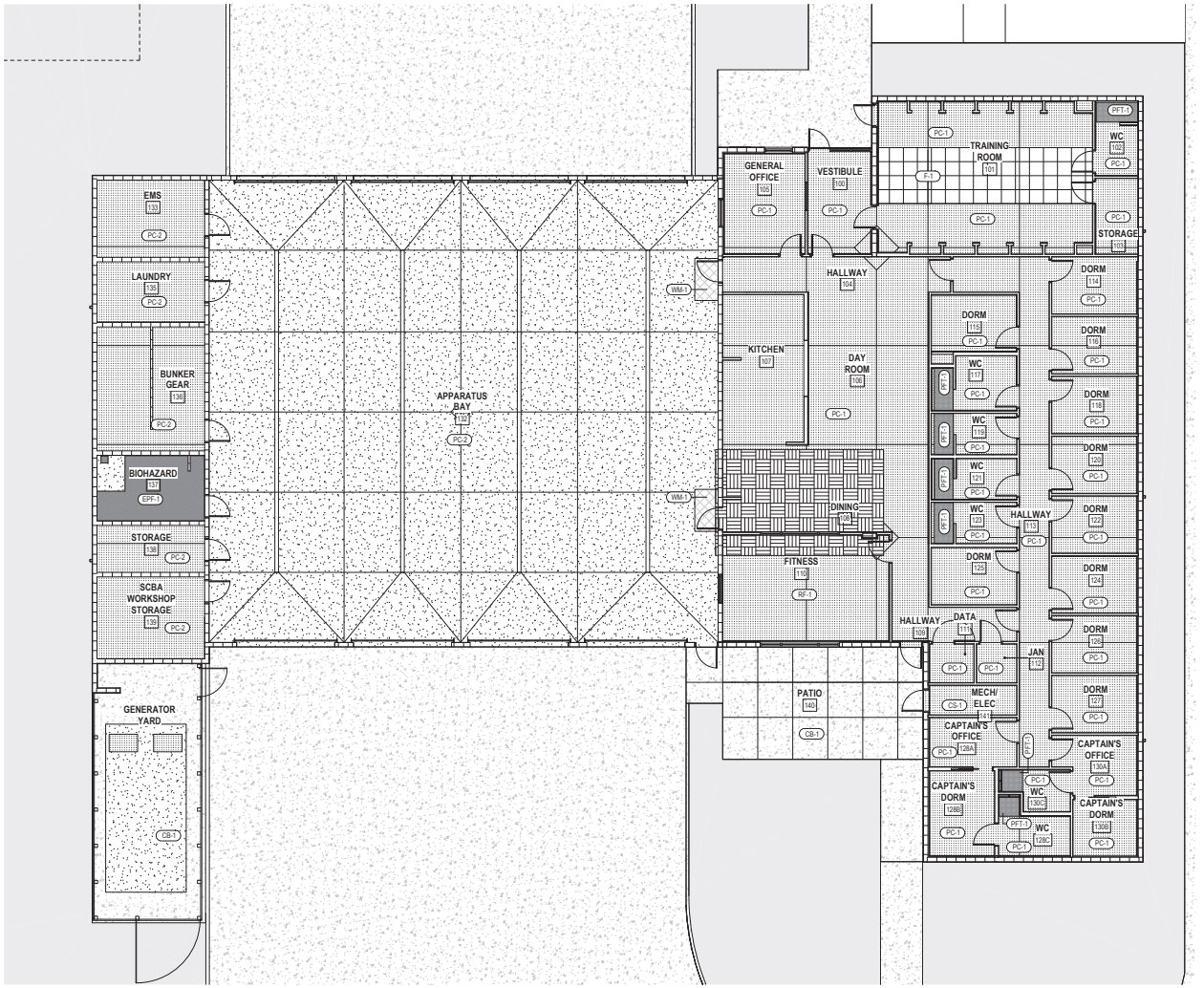
EXTERIOR 3D VIEWS

A-900



1 LEVEL 1 - FINISH PLAN
1/8" = 1'-0"

GENERAL NOTES - INTERIORS

1. ALL EXPOSED SURFACES SHALL BE FINISHED. VERIFY FINISH WITH THE INTERIOR DESIGNER WHERE THE FINISH IS NOT INDICATED OR IS UNCLEAR.
2. ALL FLOOR FINISH CHANGES SHALL OCCUR UNDER THE CENTERLINE OF DOORS IN THE CLOSED POSITION. ALL FLOORING TO RUN UNDERNEATH MILLWORK, DOOR REVEALS, CLOSETS AND SIMILAR OPENINGS. SCRIBE, CUT AND FIT FLOORING TO PIPES, PERMANENT FIXTURES AND FLOOR RECEPTACLES PRIOR TO INSTALLATION.
3. STAIRWELL: PAINT METAL PAN, METAL STRINGERS, GUARDRAILS AND HANDRAIL *(P-#)*, UNLESS OTHERWISE NOTED. SEE SHEETS *(A-# TO A-#)* FOR STAIRWELL DETAILS.
4. PAINT HOLLOW METAL DOOR FRAMES *(F-#)* OR *(TO MATCH ADJACENT WALL)*.
5. PAINT INTERIOR *(STEEL, HOLLOW METAL, WOODEN)* DOOR *(P-#)*.
6. WINDOW SILLS TO BE SS-3 (ONLY USE IF SOLID SURFACE WINDOW SILL ARE BEING USED).
7. CORNER GUARDS TO BE CG-1 AT ALL CORNERS, WHERE OTHER FINISH IS NOT INDICATED.
8. FOR SEAMLESS RESINOUS FLOORING; PROVIDE SMOOTH TRANSITION TO ADJACENT FLOOR SURFACES. NOTE TO CONTRACTOR AND PAINTING SUBCONTRACTOR: DO NOT PAINT THE BASE OF THE WALL WHERE SEAMLESS FLOORING OCCURS AT GWB PARTITIONS. THE SEAMLESS FLOORING BASE WILL NOT ADHERE TO THE WALLBOARD IF PAINT IS NOT APPLIED.
9. 803.1.1 "INTERIOR WALL AND CEILING FINISH MATERIALS"
INTERIOR WALL AND CEILING FINISH MATERIALS SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84 OR UL 723. SUCH INTERIOR FINISH MATERIALS SHALL BE GROUPED IN THE FOLLOWING CLASSES IN ACCORDANCE WITH THEIR FLAME SPREAD AND SMOKE-DEVELOPED INDEXES.
CLASS A = FLAME SPREAD INDEX 0-25; SMOKE-DEVELOPED INDEX 0-450.
CLASS B = FLAME SPREAD INDEX 26-75; SMOKE-DEVELOPED INDEX 0-450.
CLASS C = FLAME SPREAD INDEX 76-200; SMOKE-DEVELOPED INDEX 0-450.
(EXCEPTION: MATERIALS TESTED IN ACCORDANCE WITH SECTION 803.1.2)

   TABLE 803.9 "INTERIOR WALL AND CEILING FINISH REQUIREMENTS BY OCCUPANY" (REF. SHEET G-103)
10. FLOORING TRANSITIONS OCCURRING IN THE DOORWAY TO BE CENTERED ON THE CLOSED DOOR WITH THE TRANSITION STRIP NOT VISIBLE. FOLLOW FLORIDA BUILDING CODE REQUIREMENTS ON ACCESSIBILITY (SECTION 303 - CHANGES IN LEVEL FOR ALL ADA REQUIREMENTS).
FLOORING TRANSITIONS:
PFT TO CPT: SCHLUTER SYSTEM; STYLE: TBD; FINISH: TBD
PFT TO CS: SCHLUTER SYSTEM; STYLE: TBD; FINISH: TBD
PFT TO PFT: SCHLUTER SYSTEM; STYLE: TBD; FINISH: TBD

PROVIDE A 6'X6' PAINT SWATCH ON SITE FOR APPROVAL PRIOR TO PAINTING.

FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	COMMENTS
LEVEL 1					
100	VESTIBULE	PC-1	WB-1	PT-1	
101	TRAINING ROOM	PC-1	WB-1	PT-1/PT-2	
102	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
103	STORAGE	PC-1	WB-1	PT-1	
104	HALLWAY	PC-1	WB-1	PT-1/PT-2/PL-2/PL-3	SEE ELEVATIONS
105	GENERAL OFFICE	PC-1	WB-1	PT-1/PT-2	
106	DAY ROOM	PC-1	WB-1	PT-1/PT-2/PL-2/PL-3	SEE ELEVATIONS
107	KITCHEN	PC-1	WB-1	PT-1/ST-1	SEE ELEVATIONS
108	DINING	PC-1	WB-1	PT-1/PT-2	
109	HALLWAY	PC-1	WB-1	PT-1	
110	FITNESS	RF-1	WB-1	PT-1/PT-2	PROVIDE REDUCER STRIP & MIRROR SEE ELEV
111	DATA	PC-1	WB-1	PT-1	
112	JAN	PC-1	WB-1	PT-1	
113	HALLWAY	PC-1	WB-1	PT-1	
114	DORM	PC-1	WB-1	PT-1/PT-2	
115	DORM	PC-1	WB-1	PT-1/PT-2	
116	DORM	PC-1	WB-1	PT-1/PT-2	
117	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
118	DORM	PC-1	WB-1	PT-1/PT-2	
119	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
120	DORM	PC-1	WB-1	PT-1/PT-2	
121	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
122	DORM	PC-1	WB-1	PT-1/PT-2	SEE ELEVATIONS
123	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
124	DORM	PC-1	WB-1	PT-1/PT-2	
125	DORM	PC-1	WB-1	PT-1/PT-2	
126	DORM	PC-1	WB-1	PT-1/PT-2	
127	DORM	PC-1	WB-1	PT-1/PT-2	
128A	CAPTAIN'S OFFICE	PC-1	WB-1	PT-1/PT-2	
128B	CAPTAIN'S DORM	PC-1	WB-1	PT-1/PT-2	
128C	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
130A	CAPTAIN'S OFFICE	PC-1	WB-1	PT-1/PT-2	
130B	CAPTAIN'S DORM	PC-1	WB-1	PT-1	
130C	WC	PC-1/PFT-1	CWT-1	CWT-1/CWT-2/PT-1	SEE ELEVATIONS
132	APPARATUS BAY	PC-2			
133	EMS	PC-2	WB-1	PT-1	
135	LAUNDRY	PC-2	WB-1	PT-1	
136	BUNKER GEAR	PC-2	WB-1	PT-1	
137	BIOHAZARD	EPF-1	EPF-1	PT-1	
138	STORAGE	PC-2	WB-1	PT-1	
139	SCBA WORKSHOP STORAGE	PC-2	WB-1	PT-1	
140	PATIO	CB-1			
141	MECH/ ELEC	PC-1	WB-1	PT-1	

FINISH LEGEND

CB-1 DESCRIPTION: CAST IN PLACE CONCRETE BROOM FINISH
COLOR: CLEAR- SEALED
REMARKS: SEE PLAN FOR JOINT SIZE

CS-1 DESCRIPTION: CONCRETE SEALED
REMARKS: REFER TO SPECIFICATIONS

CWT-1 DESCRIPTION: MOSAIC WALL TILE
MANUFACTURER: AMERICAN OLEAN
COLOR: AO43
SIZE: 2X2 MOSAIC
REMARKS: LOCATION WALL TILE AT BATHROOMS. GROUT (STARQUARTZ) COLOR: PROVIDE SCHLUTER PROFILE (SCHIENE - ANODIZED ALUM FINISH) TO CAP TILE AT EDGES , UON
CONTACT: JANELLE HAUENSTEIN 941.650.5885
JANELLE.HAUENSTEIN@DALTILE.COM

CWT-2 DESCRIPTION: CERAMIC TILE
MANUFACTURER: DALTILE
STYLE: KEYSTONES
COLOR: D462 CYPRESS
REMARKS: LOCATION WALL TILE AT BATHROOMS. GROUT (STARQUARTZ) COLOR: PROVIDE SCHLUTER PROFILE (SCHIENE - ANODIZED ALUM FINISH) TO CAP TILE AT EDGES , UON
CONTACT: JANELLE HAUENSTEIN 941.650.5885
JANELLE.HAUENSTEIN@DALTILE.COM

CG-1 DESCRIPTION: RECESSED CORNER GUARDS
MANUFACTURER: KOROSEAL
STYLE: KOROGUARD WALL PROTECTION
COLOR: R100 SERIES
CONTACT: JOSIE ALVAREZ 813.787.1788 JALVAREZ@KOROSEAL.COM

EPF-1 DESCRIPTION: EPOXY FLOORING
MANUFACTURER: SIKA
STYLE: SIKAFLOOR NA24 PURCEM SELF LEVELING BROADCAST SYSTEM
REMARKS: PROVIDE INTEGRAL COVE BASE
CONTACT: JASON FOWLER 239.810.1585 JFOWLER@DEKSCAPE.COM

F-1 DESCRIPTION: RAISED FLOOR- ADD ALTERNATE
MANUFACTURER: GLOBAL IFS
STYLE: LOW PROFILE SERIES-TECCRETE 1250
COLOR: TBD
REMARKS: SEE ARCHITECTURAL SPECIFICATIONS
CONTACT: PATRICK PARISH 813.737.4898 PAT.TSS@HUGHES.NET

PC-1 DESCRIPTION: POLISHED CONCRETE, FORMULA ONE LIQUID DYE CONCENTRATE
MANUFACTURER: L.M. SCOFFIELD
STYLE: FORMULA ONE LIQUID DYE CONCENTRATE FINISH: GUARD W/ HIGH POLISH
COLOR: BLACK 0510
REMARKS: LOCATION: RESIDENCE- USE INTEGRAL COLOR; 1200 GRIT SEE ARCHITECTURAL SPECIFICATIONS
CONTACT: BILL COLLESTER 727.515.1849
BILL.COLLESTER@SCOFFIELD.COM

PC-2 DESCRIPTION: POLISHED CONCRETE, FORMULA ONE LIQUID DYE CONCENTRATE
MANUFACTURER: L.M. SCOFFIELD
STYLE: FORMULA ONE LIQUID DYE CONCENTRATE; FINISH: COAT
COLOR: BLACK 0510
REMARKS: LOCATION: APPARATUS BAY. USE INTEGRAL COLOR - 800 GRIT
CONTACT: BILL COLLESTER 727.515.1849
BILL.COLLESTER@SCOFFIELD.COM

PFT-1 DESCRIPTION: PORCELAIN MOSAIC TILE
MANUFACTURER: AMERICAN OLEAN
COLOR: AO43
REMARKS: SHOWER FLOORS, ABRASIVE FINISH. GROUT (STARQUARTZ) COLOR:
CONTACT: JANELLE HAUENSTEIN 941.650.5885
JANELLE.HAUENSTEIN@DALTILE.COM

PL-1 DESCRIPTION: PLASTIC LAMINATE
MANUFACTURER: INTERIOR ARTS
COLOR: PURE VEIL
REMARKS: DORMS MILLWORK
CONTACT: JIM MCCULLEY 813.245.0045 JLMCCULLEY@DIXIEPLY.COM

PL-2 DESCRIPTION: WALL PANELING
MANUFACTURER: CONSTRUCTION SPECIALTIES
STYLE: ACROVYN WALL PANELING
COLOR: CHAMELEON- COLOR TBD
SIZE: 3/8" THICK PANELS.
REMARKS: PROVIDE PICTURE FRAME TRIM/REVEALS OR-FRY REGLET MILLWORK TRIMS AND CORNERS AS REQUIRED. SEE MILLWORK.
CONTACT: KELSEY TRACY 813.541.6892 KTRACY@CAS-CORP.COM

PL-3 DESCRIPTION: PLASTIC LAMINATE-WALL PANELING
MANUFACTURER: WILSONART
COLOR: TBD
REMARKS: LOCATION: WALL AT DAYROOM/KITCHEN. PROVIDE FRY REGLET AS REQUIRED. SEE MILLWORK
CONTACT: TERESA FINCH 813.293.0588 FINCHT@WILSONART.COM

PT-1 DESCRIPTION: FIELD PAINT
COLOR: TBD
REMARKS: (EPOXY)
CONTACT: CHRISTOPHER OLDEN 407.694.7994
CHRIS.M.OLDEN@SHERWIN.COM

PT-2 DESCRIPTION: ACCENT PAINT
COLOR: TBD
REMARKS: EPOXY
CONTACT: CHRISTOPHER OLDEN 407.694.7994
CHRIS.M.OLDEN@SHERWIN.COM

PT-3 DESCRIPTION: PAINT AT EXPOSED STRUCTURE, DOORS AND FRAMES
MANUFACTURER: SHERWIN WILLIAMS
REMARKS: EPOXY / SATIN FINISH
CONTACT: CHRISTOPHER OLDEN 407.694.7994
CHRIS.M.OLDEN@SHERWIN.COM

PT-4 DESCRIPTION: CEILING/HIGH REFLECTIVE WHITE
MANUFACTURER: SHERWIN WILLIAMS
COLOR: SW 7757

PT-5 DESCRIPTION: EPOXY PAINT FOR METAL COLUMNS & EXPOSED DECK
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

PT-6 DESCRIPTION: EXTERIOR EPOXY FIELD PAINT
MANUFACTURER: SHERWIN WILLIAMS
COLOR: T.B.D.

RF-1 DESCRIPTION: RUBBER FLOORING
MANUFACTURER: JOHNSONITE/TARKETT
STYLE: REPLAY MULTIFUNCTIONAL SPORTS RUBBER FLOOR
COLOR: BLACK
SIZE: ROLL/ 3/8" THICK
REMARKS: LOCATION: FITNESS. PROVIDE REDUCER TRANSITION STRIP.
CONTACT: DONNA BAGGETT 727.262.7551
DONNA.BAGGETT@GUILFORDJOHNSON.COM

SS-1 DESCRIPTION: QUARTZ
MANUFACTURER: CORIAN
COLOR: DOVE GRAY
REMARKS: LOCATION: DAY ROOM COUNTER
CONTACT: TERRI FLEMMING 813.459.5158 TFLEMING@PARKSITE.COM

SS-2 DESCRIPTION: SOLID SURFACE
MANUFACTURER: CORIAN
COLOR: CARBON CONCRETE
REMARKS: LOCATION: DORM & BATHROOM COUNTERS
CONTACT: TERRI FLEMMING 813.459.5158 TFLEMING@PARKSITE.COM

SS-3 DESCRIPTION: SOLID SURFACE
MANUFACTURER: WILSONART
COLOR: DESIGNER WHITE D354SL
REMARKS: WINDOW SILLS
CONTACT: TERESA FINCH 813.2930588 FINCHT@WILSONART.COM

ST-1 DESCRIPTION: STAINLESS STEEL 316
COLOR: FINISH #4 BRUSHED, 16 GAUGE AT COUNTERS, 18 GAUGE AT WALL PANELS
REMARKS: LOCATION: KITCHEN AND SUPPORT AREA MILLWORK, PROVIDE TRIMS AS REQUIRED

WB-1 DESCRIPTION: WALL BASE- ROLLED GOODS
MANUFACTURER: JOHNSONITE/TARKETT
STYLE: MANDALAY PROFILE 4 1/2"
COLOR: 20 CHARCOAL WG
REMARKS: PROVIDE INSIDE AND OUTSIDE CORNERS
CONTACT: DONNA BAGGETT 727.262.7551
DONNA.BAGGETT@GUILFORDJOHNSON.COM

WM-1 DESCRIPTION: RECESSED WALK OFF MAT
MANUFACTURER: MATS INC.
STYLE: GRATE MAT WITH POLYBRUSH
COLOR: CHARCOAL INSERT
SIZE: SEE PLAN FOR SIZE
REMARKS: LOCATION:APPARATUS BAY. PROVIDE ALUMINUM FRAME
CONTACT: HANK HILTON 727.254.3572 HANK@SURFACES9.COM

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

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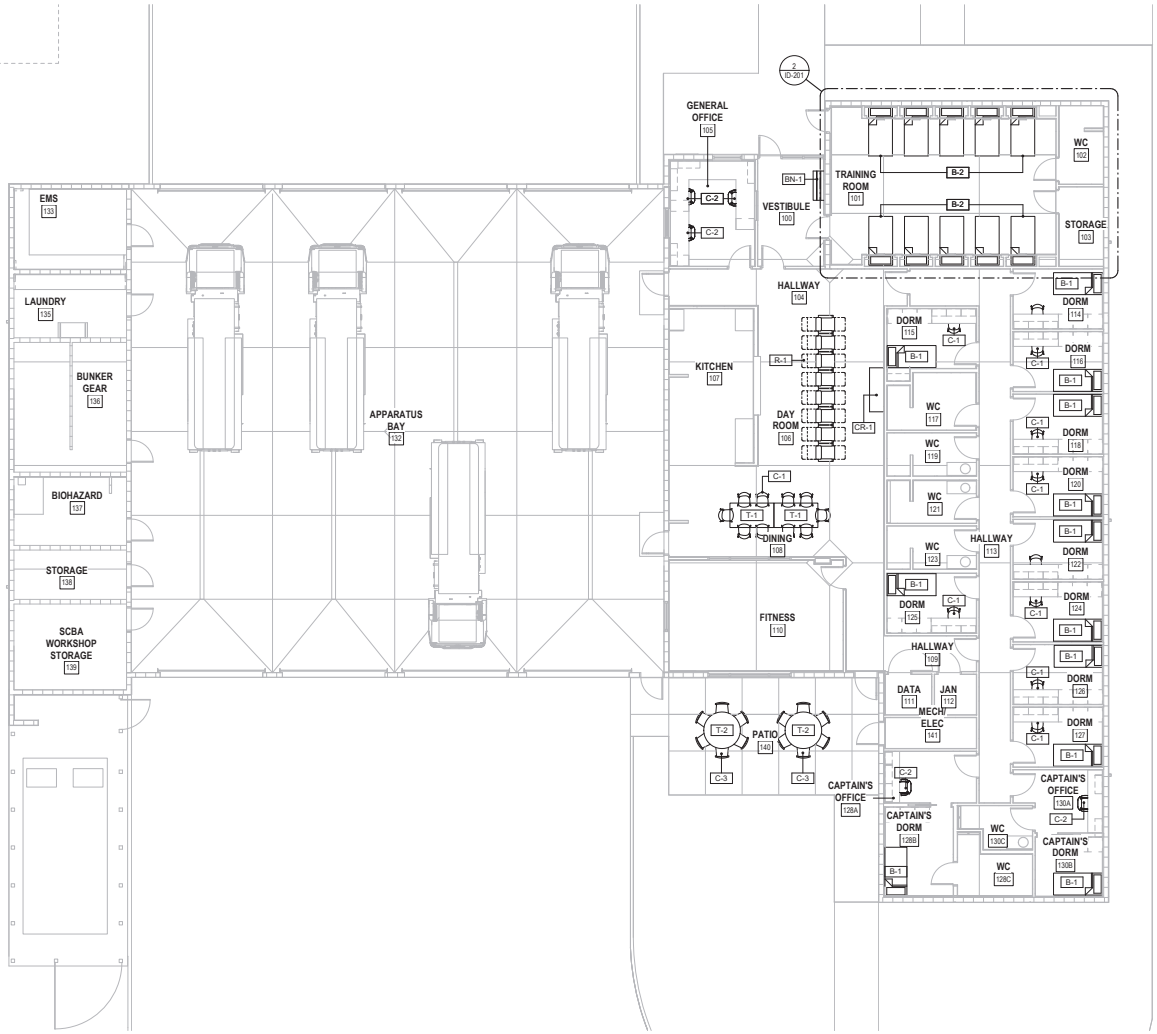
FINISH PLAN

ID-101



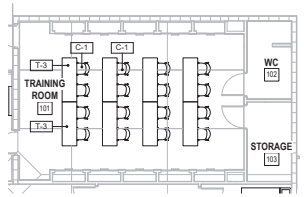
1 LEVEL 1 - FURNITURE PLAN
1/8" = 1'-0"

GENERAL NOTES - FURNITURE

1. ALL ITEMS ON THE FURNITURE PLAN ARE OWNER FURNISHED AS PART OF A SEPARATE FF&E PACKAGE.
2. PROVIDE WALL BRACING AS REQUIRED.
3. PROVIDE FLOOR OUTLETS AS MARKED IN POWER PLANS.
4. FOR ALL VERTICAL FILES, PROVIDE WALL ANCHORING SYSTEM AS RECOMMENDED BY MANUFACTURER.

FURNITURE SCHEDULE - LEVEL 1

ITEM #	DESCRIPTION	COUNT
B-1	SINGLE / TWIN BED FRAME	12
B-2	SINGLE / TWIN MURPHY BED	10
BN-1	BENCH	1
C-1	TASK CHAIR	20
C-2	WORK CHAIR W/ ADJUSTABLE HEIGHT AND ARMS ON CASTERS	5
C-3	OUTDOOR DINING CHAIR	12
CR-1	CREDENZA	1
R-1	LOUNGE RECLINER	8
T-1	DINING TABLE	2
T-2	60" OUTDOOR DINING TABLE	2
T-3	72" TRAINING TABLE	8



2 LEVEL 1 - FURNITURE PLAN - TRAINING TABLES
1/8" = 1'-0"

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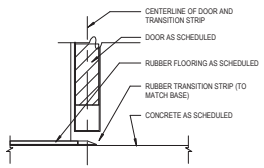
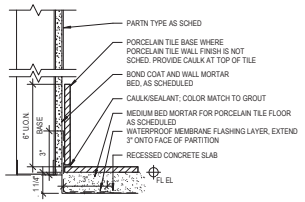
FURNITURE PLAN

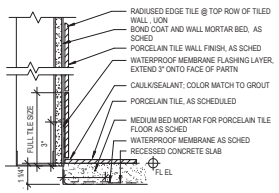
ID-201



1 RUBBER FLOORING TO CONCRETE
3" = 1'-0"



2 TILE BASE DETAIL
3" = 1'-0"



3 TILE BASE WITH WATERPROOFING DETAIL
3" = 1'-0"

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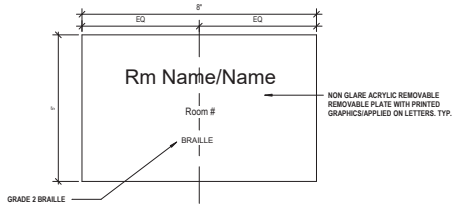
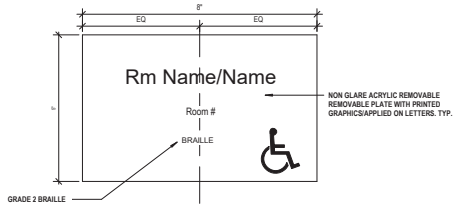
INTERIOR DETAILS

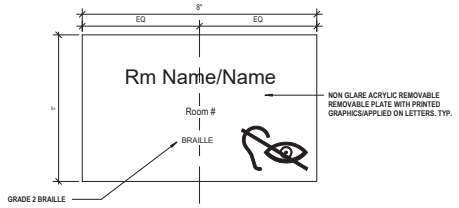
ID-401



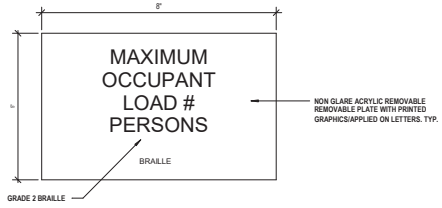
1 TYPICAL ROOM SIGN
6" = 1'-0"



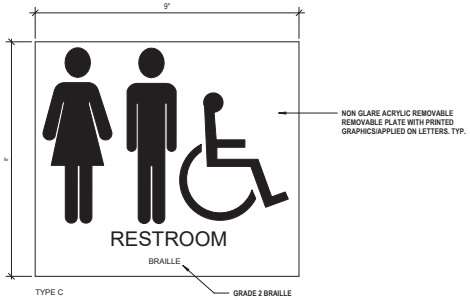
2 MOBILITY ROOM SIGN
6" = 1'-0"



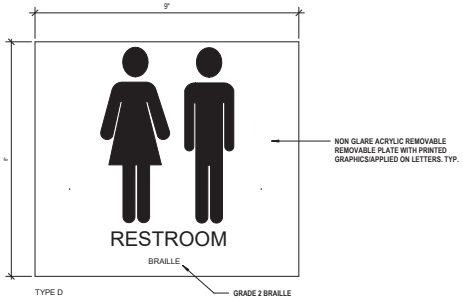
3 COMMUNICATOR ROOM SIGN
6" = 1'-0"



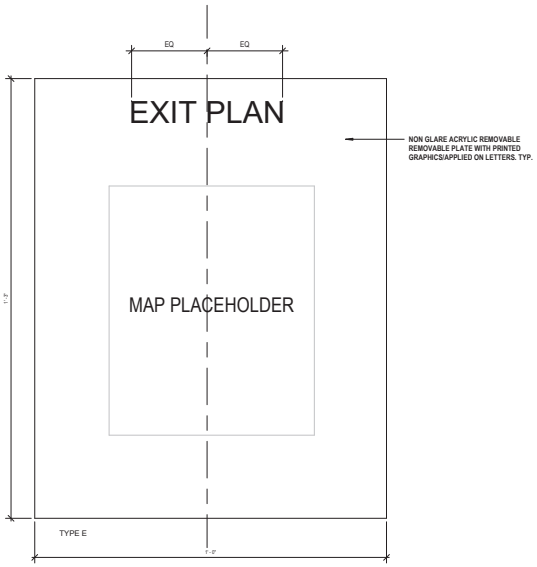
4 OCCUPANT LOAD SIGN
6" = 1'-0"



5 RESTROOM SIGN- ADA
6" = 1'-0"



6 TYPICAL RESTROOM SIGN
6" = 1'-0"



7 EXIT PLAN- SIGN
6" = 1'-0"

SIGNAGE SCHEDULE

ROOM NUMBER	ROOM NAME	TYPE	COMMENTS
LEVEL 1			
100	VESTIBULE	A-1	
101	TRAINING ROOM	A	
102	WC	C	
103	STORAGE	A-1	
104	HALLWAY	A-1	
105	GENERAL OFFICE	A-1	
106	DAY ROOM	A-1	
107	KITCHEN	A-1	
108	DINING	A-1	
109	HALLWAY	A-1	
110	FITNESS	A-1	
111	DATA	A-1	
112	JAN	A-1	
113	HALLWAY	A-1	
114	DORM	A-1	
115	DORM	A-2	
116	DORM	A-3	
117	WC	C	
118	DORM	A-1	
119	WC	D	
120	DORM	A-1	
121	WC	D	
122	DORM	A-1	
123	WC	D	
124	DORM	A-1	
125	DORM	A-1	
126	DORM	A-1	
127	DORM	A-1	
128A	CAPTAIN'S OFFICE	A-2	
128B	CAPTAIN'S DORM	A-2	
128C	WC	C	
130A	CAPTAIN'S OFFICE	A-3	
130B	CAPTAIN'S DORM	A-3	
130C	WC	D	
132	APPARATUS BAY	A-1	
133	EMS	A-1	
135	LAUNDRY	A-1	
136	BUNKER GEAR	A-1	
137	BIOHAZARD	A-1	
138	STORAGE	A-1	
139	SCBA WORKSHOP STORAGE	A-1	
140	PATIO	-	
141	MECH/ ELEC	A-1	

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INTERIOR SIGNAGE

ID-420

GENERAL STRUCTURAL NOTES

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR AND SHALL VERIFY AND COORDINATE ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND ENGINEERS.
2. DETAILS SHOWN IN ANY SECTION APPLY TO ALL SIMILAR SECTIONS AND CONDITIONS UNLESS NOTED OTHERWISE.
3. CONTRACTOR SHALL FULLY BRACE AND OTHERWISE PROTECT ALL WORK IN PROGRESS UNTIL THE BUILDING IS COMPLETED.
4. ALL STRUCTURAL ITEMS FOR THIS PROJECT HAVE BEEN DESIGNED IN ACCORDANCE WITH APPROPRIATE PROVISIONS OF EACH OF THE FOLLOWING:

   A. THE FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.
   B. ACI STANDARD 318-14 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
   C. BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13/ASCE 5-13/TMS 402-16).
   D. AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" 360-10.
   E. ASCE 7-10 (WITH ERRATA DATED JANUARY11, 2011) "MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES".

5. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE SPECIFICATIONS AND THE ARCHITECTURAL AND MECHANICAL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ARCHITECT PRIOR TO PERFORMING WORK. IN CASE OF CONFLICT THE MOST STRINGENT CONDITION SHALL APPLY.
6. ALL DIMENSIONS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS AND WITH EQUIPMENT MANUFACTURER (I.E. WINDOW, DOOR, AIR HANDLER, ETC.). CONTRACTOR MUST OBTAIN AN ARCHITECTURAL DIRECTIVE IN CASE OF ANY CONFLICT. REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN IN STRUCTURAL DRAWINGS.
7. ROOFTOP EQUIPMENT ANCHORAGE & OUTDOOR RACK MOUNTED EQUIPMENT ANCHORAGE. ALL ROOF TOP EQUIPMENT CURBS, ROOF TOP MECHANICAL EQUIPMENT, EQUIPMENT TIE DOWNS, AND CONNECTIONS OF ALL EQUIPMENT TO OUTDOOR RACKS OR BUILDING STRUCTURE FOR WIND LOADING ARE TO BE DESIGNED AND ENGINEERED BY A REGISTERED SPECIALTY ENGINEER RETAINED BY THE MECHANICAL EQUIPMENT SUPPLIER. SIGNED AND SEALED DRAWINGS AND CALCULATIONS ARE TO BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE EQUIPMENT MANUFACTURER SHALL PROVIDE THE ATTACHMENT OF THE UNIT TO THE STRUCTURE AND SUBMIT TO THE ENGINEER LOADS, LOCATIONS, AND METHODS OF ATTACHMENT. THE STRUCTURAL ENGINEER WILL MAKE PROVISIONS IN THE DESIGN OF THE PRIMARY STRUCTURAL FRAME TO ACCOMMODATE THE LOADS AND ATTACHMENTS SUBMITTED BY THE MANUFACTURER.

CONCRETE AND REINFORCING:

1. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI-318".
2. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTHS AS INDICATED BELOW:

CONCRETE STRENGTH	MAX WATER CEMENT RATIO	TYPE AGGREGATE	LOCATION USED
4000 PSI	0.45	STONE	CONCRET U.N.O & FOUNDATIONS
3000 PSI	0.52	STONE	SLAB ON GRADE

3. ALL REINFORCING STEEL SHALL BE INTERMEDIATE GRADE, NEW BILLET STEEL, DEFORMED BARS, CONFORMING TO ASTM A-615, GRADE 60. ALL BARS SHALL BE SECURELY SUPPORTED AND WIRED IN PLACE. PRIOR TO POURING CONCRETE. ALL REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A-706.
4. ALL WELDED WIRE FABRIC (W.W.F.) IN FLAT SHEETS ONLY AND SHALL CONFORM TO ASTM A-185.
5. UNLESS NOTED, ALL BARS MARKED CONTINUOUS SHALL BE SPLICED AT ALL LAP POINTS AND CORNERS AND DEVELOPED AT NON-CONTINUOUS ENDS AS PER TYPICAL DETAILS. SPLICE CONTINUOUS TOP BARS AT CENTER BETWEEN SUPPORTS AND SPLICE CONTINUOUS BOTTOM BARS AT SUPPORTS.
6. CONCRETE COVER FOR REINFORCING BARS SHOWN IN TYPICAL DETAILS.
7. UNLESS NOTED, TEMPERATURE REINFORCING (ASTM A-615-60) TO BE 0.0018 X CONCRETE AREA.
8. WHERE PIPE SLEEVES (UP TO 2" IN DIAMETER) PASS THROUGH CONCRETE BEAMS, PROVIDE ADDITIONAL STIRRUP EACH SIDE OF SLEEVE, SLEEVES FOR PIPES 2" IN DIAMETER OR LARGER MUST BE STEEL OR CAST IRON, AND THE LOCATION MUST BE APPROVED BY THE STRUCTURAL ENGINEER.
9. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED JUST BEFORE PLACING NEW CONCRETE IN ACCORDANCE WITH THE BUILDING CODE.
10. FOR CHAMFER OF EXPOSED CORNERS OF BEAMS AND/OR COLUMNS, SEE ARCHITECTURAL DRAWINGS.
11. CONTRACTOR SHALL COORDINATE PLACEMENT OF, OR BOX OUT FOR, ALL PIPE SLEEVES, OPENINGS, ETC, REQUIRED FOR VARIOUS TRADES.
12. CONTRACTOR SHALL COORDINATE AND NOTIFY OTHER TRADES IN SUFFICIENT TIME TO ALLOW THEM TO SET ANCHORS, INSERTS, BOLTS, HANGERS, ETC., AS REQUIRED FOR THEIR USE.
13. SEE ARCHITECTURAL DRAWINGS FOR DETAILS OF FLASHING REGLETS, FASCIA DETAILS, ETC.
14. UNDER NO CIRCUMSTANCES SHALL CONCRETE BE PUMPED THROUGH ALUMINUM PIPES. CONCRETE SHALL NOT BE PLACED IN CONTACT WITH ALUMINUM, ALUMINUM MIXING DRUMS, TRUCK MIXERS, BUGGIES, CHUTES, CONVEYORS, TREMIE PIPES, AND OTHER EQUIPMENT MADE OF ALUMINUM SHALL NOT BE USED ON THIS PROJECT.
15. SLUMPS OF OVER 4 INCHES WILL NOT BE PERMITTED UNLESS THE HRWR ADMIXTURE (SUPER PLASTICIZER) IS USED. MAXIMUM SLUMP IS THEN 8 INCHES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
16. NO ADMIXTURE SHALL BE USED IN CONCRETE EXCEPT WITH THE PERMISSION OF THE ENGINEERS AND AFTER LABORATORY DESIGN MIX APPROVAL. ALL ADMIXTURES SHALL CONTAIN NO MORE CHLORIDE IONS THAN ARE PRESENT IN MUNICIPAL DRINKING WATER.
17. WATER REDUCING ADMIXTURE SHALL CONFORM TO THE ASTM C-494, TYPE A, AND SHALL BE USED IN ALL CONCRETE.
18. AIR ENTRAINING ADMIXTURE SHALL CONFORM TO ASTM C260. AIR CONTENT OF CONCRETE SHALL BE USED AS FOLLOWS:

    A. FOR CONCRETE EXPOSED TO SOIL AND/OR WEATHER, 5%.
    B. FOR INTERIOR WALLS, COLUMNS, AND SLABS, 3%.

19. FLY ASH - ASTMC618, TYPE C OR TYPE F SHOULD BE USED BUT NOT TO EXCEED 20% CEMENTITIOUS CONTENT.
20. ALL EXPOSED CONCRETE SLABS SHALL RECEIVE A CURING COMPOUND. THE CURING COMPOUND SHALL CONFORM TO ASTM C309 AND SHALL HAVE 30% SOLIDS MINIMUM. WATER/BLANKET CURING AS PER ACI RECOMMENDATION MAY BE USED AS ALTERNATE.

FOUNDATION NOTES:

1. SITE SOIL FOR THIS PROJECT HAS BEEN INVESTIGATED BY THE FIRM OF DRIGGERS ENGINEERING SERVICES, INC. AND FOUND, AS PRESENTED IN THEIR REPORT DATED JULY 29TH, 2020 SUITABLE TO SUPPORT 2.5 KSF SPREAD FOOTINGS. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE ABOVE STATED CRITERIA.
2. FILL AND SUBGRADE PREPARATION SHALL BE IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER RECOMMENDATION AS CONTAINED IN THEIR REPORT STATED IN ITEM 1.
3. ALL COLUMN FOOTINGS SHALL BE CENTERED UNDER COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
4. BACKFILLING AGAINST FOUNDATION WALLS SHALL BE DONE CAREFULLY WITH SMALL COMPACTION EQUIPMENT, AFTER SLABS ON GROUND ARE IN PLACE AND CONCRETE HAS SET. NO TRUCKS, BULLDOZERS, ETC. SHALL BE ALLOWED CLOSER THAN 6'-0" TO ANY FOUNDATION WALL. ANY WALL 3'-0" OR HIGHER MUST BE BRACED DURING THE CONSTRUCTION PROCESS.
5. NO FOUNDATIONS SHALL BE PLACED ABOVE 1 VERTICAL ON 2 HORIZONTAL SLOPES EXTENDED FROM THE CLOSEST EDGE OF ANY UNDISTURBED SOIL OR OTHER FOUNDATION STRUCTURE. BOTTOM OF FOOTINGS SHALL NOT BE LESS THAN 1'-0" BELOW EXISTING GRADE (U.N.O.).
6. FOR FOUNDATIONS SIZE AND REINFORCING SEE SCHEDULE.
7. CONTRACTOR SHALL TREAT SOIL BENEATH BUILDING FOR TERMITES.

MASONRY:

1. DESIGN AND CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13 / ASCE 5-13) / TMS 402-16 AND SPECIFICATIONS FOR MASONRY STRUCTURES ACI 530.1-13 / ASCE 6-13 (WITH ERRATA DATED JANUARY 10, 2011 / TMS 602-16).
2. MINIMUM NET COMPRESSIVE STRENGTH OF BLOCK ASSEMBLY SHALL BE 2000 P.S.I. (f'm) MORTAR FOR MASONRY SHALL BE TYPE "S" OR "M".
3. FOR ALL EXTERIOR AND INTERIOR BEARING, BED JOINTS ARE TO COVER 100% OF THE MASONRY SURFACES AND ALL HEAD JOINTS ARE TO COVER 100% OF THE PROJECTED AREA OF THE FACE SHELLS.
4. FILL ALL CELLS AS REQUIRED WITH 3000 P.S.I. GROUT. SLUMP SHALL BE 8 TO 11 INCHES. SUBMIT DESIGN MIX FOR APPROVAL.
5. MINIMUM HORIZONTAL JOINT REINFORCING SHALL BE 9 GAGE HOT DIP GALVANIZED TRUSS OR LADDER TYPE JOINT REINFORCING AT 16" O.C., PROVIDE MANUFACTURE "T" AND "L" SHAPES FOR INTERSECTIONS AND CORNERS, (MINIMUM LAP 8").
6. MINIMUM VERTICAL REINFORCING SHALL BE (1)-#5 @ 48" OR (1)-#4 @ 32" O.C., (U.N.O.).
7. PROVIDE ADDITIONAL VERTICAL REINFORCING BAR AT EVERY CORNER, INTERSECTION, CONTROL JOINT, AND OPENING EDGES (U.N.O.).
8. MINIMUM SPLICE FOR VERTICAL REINFORCING IS SHOWN IN DETAIL 4-023, SPLICE FOR HORIZONTAL JOINT REINFORCING = 12".
9. WALLS ARE DESIGNED TO BE BRACED BY FLOOR OR ROOF MEMBERS, CONTRACTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION.
10. ALL CELLS BELOW FIRST FLOOR FINISHED ELEVATION MUST BE FULLY GROUT FILLED.
11. ALL KNOCK OUT BLOCK HORIZONTAL BARS SHALL HAVE CORNER BARS AT ALL CORNERS AND WALL INTERSECTIONS. SIZE AND NUMBER OF CORNER BARS SHALL BE SAME AS HORIZONTAL BARS.
12. ALL INTERSECTING WALLS AND CORNER WALLS SHALL BE LAID IN AN OVERLAPPING MASONRY BONDING PATTERN, WITH ALTERNATE UNITS HAVING A BEARING OF NOT LESS THAN 3 INCHES ON UNIT BELOW.

STEEL JOIST:

1. STEEL JOIST CONSTRUCTION SHALL CONFORM TO THE LATEST SPECIFICATIONS OF, AND THE JOISTS SHALL BE APPROVED BY, THE STEEL JOIST INSTITUTE.
2. UNLESS OTHERWISE NOTED, BEAR SHORT SPAN JOISTS MINIMUM OF 2-1/2" ON STEEL BEAMS AND BEAR LONG SPAN JOIST MINIMUM OF 4" ON STEEL SUPPORTS. IN CASES WHERE JOISTS BEAR ON BEAMS FROM ONE SIDE ONLY, JOIST SEATS SHALL EXTEND A MINIMUM OF 1" PAST THE CENTERLINE OF SUPPORTING BEAM.
3. ALL JOISTS BEARING ON BEAMS SHALL BE WELDED OR BOLTED TO THOSE BEAMS.
4. PROVIDE BRIDGING FOR ALL JOISTS AS SHOWN ON PLAN BUT NOT LESS THAN WHAT IS REQUIRED BY THE STEEL JOIST INSTITUTE OR THE STEEL JOIST DESIGNER. BRIDGING SHALL CONSIST OF MINIMUM 1-1/4" X 1-1/4" X 7/64" ANGLES, (U.N.0.).
5. ALL BRIDGING SHALL BE PROVIDED AND INSTALLED BY JOIST SUPPLIER.
6. ALL CLIPS AND CONNECTIONS SHALL BE SHOP WELDED.
7. NO FIELD WELDING TO BAR JOISTS EXCEPT ITEMS SPECIFICALLY SHOWN ON STRUCTURAL DRAWINGS SHALL BE ALLOWED WITHOUT SPECIFIC PERMISSION FROM THE ENGINEER.
8. NO JOIST SHALL BE FIELD SPLICED.
9. MAXIMUM DEFLECTION OF STEEL JOISTS = L/240.
10. FOR PAINTING OF STEEL JOIST, SEE SPECIFICATIONS.
11. JOIST MANUFACTURER SHALL SUBMIT WITH THE SHOP DRAWINGS HIS CATALOG USED FOR THE MANUFACTURE OF JOISTS, INDICATING THE LOAD TABLES AND SIZES OF ALL MEMBERS USED.
12. NO LOADS EXCEEDING 40 POUNDS MAY BE HUNG FROM JOISTS WITHOUT SPECIFIC PERMISSION FROM THE STRUCTURAL ENGINEER. LOADS LESS THAN 40 POUNDS MAY BE HUNG AT PANEL POINTS ONLY. ANY COST INVOLVED IN REINFORCING OF JOISTS SHALL BE BORNE BY THE PRIME CONTRACTOR REQUIRING ADDED LOADS.
13. ALL SHORT SPAN JOISTS, AND DEEP LONG SPAN JOISTS SHALL HAVE UNIFORM CROSS SECTION, WITH STANDARD DEAD LOAD CAMBER. ROOF PITCH IS ACCOMPLISHED BY SLOPED JOISTS AND SUPPORT BEAMS. ADJUST JOIST SEATS AS SHOWN ON DRAWINGS.
14. FOR SPECIFIC JOIST ENDS, SEE ROOF SECTIONS.
15. RIGID CONNECTIONS OF BOTTOM CHORDS OF JOISTS TO COLUMNS SHALL BE MADE ONLY AFTER THE APPLICATION OF ALL THE DEAD LOADS. PROVIDE LOOSE BOLTED CONNECTION OF THESE BOTTOM CHORDS DURING ERECTION.

STEEL ROOF DECK:

1. STEEL ROOF DECK SHALL BE A MINIMUM OF 1-1/2" - 20 GAUGE WIDE RIB FOR SPANS UP TO 6'-0" OR 3" TYPE N - 20 GAUGE FOR SPANS UP TO 12'-0" . THE SIZE, TYPE AND GAUGE INDICATED ABOVE SHOULD BE USED UNLESS A DIFFERENT ONE IS INDICATED IN THE ROOF FRAMING NOTES OF THE ROOF PLAN DRAWING.
2. ALL STEEL ROOF DECK SHALL BE GALVANIZED G90 AS PER ASTM SPECIFICATIONS.
3. ALL STEEL ROOF DECK SHALL BE CAPABLE OF SUPPORTING ALL CONSTRUCTION LOADS.
4. ALL STEEL ROOF DECK SHALL BE CONTINUOUS OVER FOUR OR MORE STRUCTURAL SUPPORTS (I.E. DECK SHOULD BE DETAILED FOR A THREE SPAN CONDITION.)
5. STEEL ROOF DECK SHALL HAVE NESTING SIDE LAPS (ATTACHED BY MECHANICAL MEANS). PROVIDE FASTENER LAYOUT AS PER TYPICAL DETAIL 5-305.
6. IF DECK IS CUT IN SINGLE SPAN CONDITION, EACH END OF SUCH SECTIONS SHALL BE WELDED TO ITS SUPPORT THROUGH WELDING WASHERS IN THE BOTTOM OF EACH RIB.
7. IN AREAS WHERE THE DECK IS CUT AS PER NOTE 6, THE GAUGE OF THE SINGLE SPAN DECK SHALL BE ADJUSTED UPWARDS AS REQUIRED BY THE ENGINEER TO SUPPORT THE LOADS.
8. ANY ELECTRICAL WORK WEIGHING MORE THAN 5 PSF OR 50 LBS CONCENTRATED SHALL BE HUNG FROM STEEL BEAMS ONLY. FOR HANGERS, SEE SPECIFICATIONS. ALL MECHANICAL WORK AND PIPING SHALL BE HUNG FROM STEEL BEAMS. SEE STRUCTURAL STEEL NOTE 12 (OF STRUCTURAL STEEL NOTES) FOR ADDITIONAL STEEL REQUIRED BY MECHANICAL/ELECTRICAL TRADES TO SUPPORT THEIR EQUIPMENT.
9. METAL DECK CONTRACTOR TO PROVIDE 18 GAUGE RIDGE PLATE, VALLEY PLATE, EDGE STRIP, ETC., AS REQUIRED.
10. STEEL ROOF DECK SHALL BE WELDED AT ENDS AND ALL INTERMEDIATE SUPPORTING MEMBERS WITH 5/8" DIAMETER PUDDLE WELDS OR ELONGATED WELDS OF EQUAL STRENGTH SPACED PER SPECIFICATIONS IN THE BOTTOM OF THE RIB ACROSS THE WIDTH OF THE DECK UNIT.
11. CUT OUT METAL DECK WHERE BOLT PROJECTIONS INTERFERE WITH METAL DECK.
12. DIRECTION OF METAL DECK SHOWN THUS ⟵⟶ ON PLAN.

LIGHTGAUGE METAL FRAMING:

1. ALL STRUCTURAL MEMBERS SHALL BE DESIGNED IN ACCORDANCE WITH AMERICAN IRON AND STEEL INSTITUTE, "SPECIFICATION FOR THE DESIGN OF COLD FORMED STRUCTURAL MEMBERS", 2007 EDITION WITH 2012 SUPPLEMENTS. PROVIDE SIGN AND SEALED CALCULATIONS AND DRAWINGS FOR ALL LIGHT GAUGE STRUCTURAL ELEMENTS OF THE BUILDING, INCLUDING THE EXTERIOR METAL STUDS (CURTAIN WALL), AND ALL EXTERIOR CEILINGS.
2. ALL STRUCTURAL STUDS AND JOISTS 22, 20, AND 18 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C955 WITH A YIELD STRENGTH OF 33,000 PSI.
3. ALL STRUCTURAL STUDS AND JOISTS 16, 14, AND 12 GAUGES SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING ASTM C955, WITH YIELD STRENGTH OF 50,000 PSI.
4. ALL STRUCTURAL TRACK AND BRIDGING SHALL BE FORMED FROM GALVANIZED STEEL PER ASTM A653, G60 COATING MEETING THE REQUIREMENTS OF ASTM C595, WITH YIELD STRENGTH OF 33,000 PSI.
5. WITH EACH TYPE OF METAL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGELS, SHOES, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE METAL FRAMING SYSTEM.
6. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A653 FOR MINIMUM G60 COATING. ATTACH SIMILAR COMPONENTS BY WELDING. ATTACH DISSIMILAR COMPONENTS BY WELDING, BOLTING OR SCREW FASTENERS, AS STANDARD WITH MANUFACTURER. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED AND EXPERIENCED IN LIGHT GAUGE STRUCTURAL STEEL FRAMING WORK.
7. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDATIONS, UNLESS OTHERWISE INDICATED.
8. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUDS.
9. SET STUDS PLUMB, EXCEPT AS NEEDED FOR DIAGONAL BRACING OR REQUIRED FOR NON-PLUMB WALLS OR WARPED SURFACED AND SIMILAR REQUIREMENTS.
10. WHERE STUD SYSTEM ABUTS STRUCTURAL COLUMN OR WALLS, INCLUDING MASONRY WALL, ANCHOR ENDS OF STIFFENERS TO SUPPORTING STRUCTURE.
11. SECURE STUDS TO TOP AND BOTTOM RUNNER TRACKS BY EITHER WELDING OR SCREW FASTENERS AT BOTH INSIDE AND OUTSIDE FLANGES.

SHOP DRAWINGS:

1. NO STRUCTURAL DRAWINGS SHALL BE REPRODUCED FOR USE AS SHOP DRAWINGS.
2. ALL DIMENSIONAL COORDINATION SHALL BE DONE BY THE CONTRACTOR AND/OR HIS DETAILER.
3. DETAILER SHALL CHECK ALL ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ALL ATTACHMENTS, CLIPS, OPENINGS, OR DUCT WORK AFFECTING STRUCTURAL MEMBERS. ALL ITEMS SHALL BE SHOWN ON SHOP DRAWINGS.
4. ALL SHOP DRAWINGS SHALL BE SUBMITTED ELECTRONICALLY IN PDF FORMAT. DISTRIBUTION AS PER ARCHITECT INSTRUCTIONS.
5. PROVIDE SUFFICIENT SPACE ON SHOP DRAWINGS NEAR TITLE BOX (ABOUT 40 SQUARE INCHES) FOR STAMPS AND ENGINEERS COMMENTS.
6. THE SHOP DRAWINGS SHALL BEAR INITIALS OF DETAILER'S CHECKER AND CONTRACTOR PRIOR TO SUBMISSION.
7. COMPLETED ERECTION PLANS SHALL BE SUBMITTED PRIOR TO OR IN CONJUNCTION WITH DETAIL DRAWINGS. BUT IN NO CASE SHALL DETAIL DRAWINGS BE SUBMITTED PRIOR TO ERECTION PLANS.
8. DETAILER SHALL SUBMIT AN INDEX OF THE DETAIL DRAWINGS WITH EACH SHOP DRAWING SUBMITTAL.
9. SHOP DRAWINGS NOT COMPLYING WITH ALL THE ABOVE ITEMS SHALL BE RETURNED FOR CORRECTIONS WITHOUT PROCESSING.
10. RESUBMITTED SHOP DRAWINGS SHALL HAVE THE FOLLOWING CHANGES INCORPORATED: FIRST RESUBMISSION TO HAVE LETTER "A" ADDED TO DRAWING

    A. NUMBER AND ANY CHANGES MARKED ON THE DRAWING MARKED 1 AT EACH ITEM CHANGED. ALL ITEMS TO BE NOTED IN REVISION BOX.
    B. SUBSEQUENT RESUBMISSION SHALL BEAR CHANGES "B" AND 2 AND 3 ETC. AS IN 11A.

11. CONTRACTOR SHALL HAVE SHOP DRAWINGS WHICH HAVE BEEN SATISFACTORILY REVIEWED BY THE ARCHITECT AND/OR ENGINEER AND CONFIRMED BY THE CONTRACTOR BEFORE PROCEEDING WITH ANY WORK.
12. DETAILER SHALL USE THE SAME STRUCTURAL ELEMENTS NUMBERS IN HIS DETAILS AS THOSE SHOWN ON CONTRACT DRAWINGS.
13. SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOULD BE SUBMITTED TO MCE WITH A MINIMUM TIME TO BE REVIEWED OF 10 WORKING DAYS. IN CASE OF A LARGE SUBMITTAL OR MORE THAN ONE SUBMITTAL FOR THE SAME PROJECT, AN ADDITIONAL WORKING DAY IS REQUIRED FOR EVERY 5 DRAWINGS/SHEETS OVER 30 DRAWINGS/SHEETS. THE TIME INDICATED ABOVE IS FOR MCE REVIEW ONLY. CONTRACTOR MUST INCLUDE ENOUGH TIME FOR DELIVERY, ARCHITECTURAL REVIEW, AND OWNERS REVIEW AND WORK THIS TIME IN THE PROJECT SCHEDULE AS NEEDED.
14. THERE SHALL BE NO DEVIATION FROM THESE CONSTRUCTION DOCUMENTS. IF ANY CHANGES ARE PROPOSED BY THE CONTRACTOR OR THE PROVIDER OF THE SHOP DRAWINGS, THEY SHOULD BE CLEARLY INDICATED, SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A FLORIDA PROFESSIONAL ENGINEER MUST BE PROVIDED. ANY CHANGES WITHOUT PROPER DOCUMENTATION INDICATED ABOVE WILL RESULT IN SOME REVISIONS BY THE ENGINEER OF RECORD AND/OR ARCHITECT. THE COST FOR THESE REVISIONS INCLUDING ENGINEER AND ARCHITECTURAL FEES SHALL BE PAID BY THE CONTRACTOR.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL WORK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST A.I.S.C. SPECIFICATIONS.
2. STRUCTURAL STEEL SHALL CONFORM TO:

WIDE FLANGE (WF)	ASTM A992 (50 KSI)
SHAPES (L,T,C,PL)	ASTM A36
STRUCTURAL TUBE (HSS)	ASTM A500 (46 KSI)
STEEL PIPE (HSS)	ASTM A500 (42 KSI)
ANCHOR BOLTS	ASTM F1554 (36 KSI) U.N.O. IN PLANS, OR SECTIONS.
FRAMING BOLTS	ASTM A325 OR A490
SHEAR STUDS	ASTM A108
WELDING ELECTRODES	E70XX

3. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM SPECIFICATION A325 AND SHALL BE PROVIDED WITH HARDENED WASHERS UNDER THE TURNED ELEMENT (NUT OR BOLT HEAD).
4. INSTALLATION AND TIGHTENING OF ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS".
5. SHOP CONNECTIONS MAY BE WELDED OR HIGH STRENGTH BOLTED. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM. ALL CONNECTIONS SHALL CONFORM TO THE TYPICAL CONNECTION DETAILS SHOWN ON THE PLANS UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
6. ALL FIELD CONNECTIONS SHALL BE BOLTED WITH HIGH STRENGTH BOLTS, SLIP-CRITICAL (FRICTION) TYPE EXCEPT WHERE SLOTTED HOLES ARE SPECIFIED OR WHERE MOVEMENT OF THE CONNECTED MEMBERS IS EXPECTED. IN THESE CASES PROVIDE OVERSIZED WASHER, HAND TIGHTEN BOLTS, AND TACK WELD WASHER TO NUT TO VERIFY ASSEMBLY IS HELD TOGETHER.
7. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY CODE, ANS01.1, ALL WELDING SHALL BE PERFORMED USING E7OXX U.N.O.
8. CUTS, HOLES, COPINGS, ETC. REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN IN THE STRUCTURAL STEEL SHOP DRAWINGS AND SHALL BE MADE IN THE SHOP. HOLES SHALL BE REINFORCED AS REQUIRED BY THE ENGINEER.
9. BURNING OF HOLES, CUTS, ETC. IN STRUCTURAL STEEL MEMBERS IN THE FIELD WILL NOT BE PERMITTED, EXCEPT WITH THE SPECIFIC APPROVAL OF THE ENGINEER.
10. ALL STEEL MEMBERS EXPOSED TO WEATHER (SUCH AS LINTELS, DOOR JAMBS, ETC.) SHALL BE HOT DIPPED GALVANIZED.
11. FOR MISCELLANEOUS STEEL, SEE ARCHITECTURAL DRAWINGS.
12. ANY STEEL MEMBERS REQUIRED BY THE ELECTRICAL OR MECHANICAL TRADES FOR THE SUPPORT OF THEIR EQUIPMENT, WHICH ARE NOT SHOWN ON ARCHITECTURAL OR STRUCTURAL DRAWINGS, SHALL BE PROVIDED BY THE TRADE REQUIRING SUCH SUPPORT.
13. SEE SPECIFICATIONS FOR PAINTING OF STRUCTURAL STEEL. ALL FABRICATION AND ERECTION MARKS SHALL BE COVERED DURING FIELD TOUCH-UP PAINTING.
14. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" MINIMUM DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS.
15. DESIGN CONNECTIONS FOR HALF THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" AT THE BOTTOM OF EACH PAGE IN THE "BEAM PROPERTIES" OF THE AISC 360-10" MANUAL OF STEEL CONSTRUCTION. "MINIMUM CONNECTION SHALL CONSIST OF TWO 3/4"Ø A325 BOLTS. REACTIONS SHOWN ARE BASED ON UNFACTORED LOADS. PROVIDE SIGNED AND SEALED DRAWINGS AND CALCULATIONS BY A PROFESSIONAL ENGINEER.
16. WHEN STEEL MEMBERS ARE WELDED TO EMBED PLATES IN CONCRETE, WELDING PROCESS SHOULD BE PERFORMED IN SUCH WAY THAT EMBED PLATE DOES NOT OVERHEAT AND EXPAND. SUCH EXPANSION WILL CRACK THE CONCRETE SURROUNDING THE EMBED PLATE AND MAY WEAKEN THE STRUCTURAL CAPACITY OF THE CONNECTION. WE RECOMMEND TO PROVIDE SEVERAL SINGLE PASSES TO BUILT UP THE WELD SIZE REQUIRE WITH COOLING OFF PERIODS TO AVOID THE EMBED PLATE EXPANSION. UNDER NO CIRCUMSTANCES PROVIDE MORE THAN 6" OF 1/4" WELD WITHOUT ALLOWING A COOLING OFF PERIOD.
17. EXPOSED ENDS OF STRUCTURAL TUBES OR PIPES SHALL BE CAPPED WITH A MINIMUM 1/4" PLATE U.N.O.

POST-INSTALLED ANCHORS

1. POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. SPECIAL INSPECTIONS ARE REQUIRED PER THE PROVISIONS SET FORTH BELOW. CONTRACTOR TO CONTACT MANUFACTURER'S REPRESENTATIVE FOR PROPER PRODUCT INSTALLATION TRAINING ON INITIAL ANCHORS.
2. SUBSTITUTION REQUESTS, FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERTINENT EQUIVALENT PERFORMANCE VALUES (MINIMUM) OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.
3. EXPANSION ANCHORS SHALL BE STUD TYPE WITH A SINGLE PIECE OF THREE SECTION WEDGE AND ZINC PLATED IN ACCORDANCE WITH ASTM B633. THE ANCHORS SHALL MEET FEDERAL SPECIFCATION FF-S-325, GROUP II, TYPE 4, CLASS I FOR CONCRETE EXPANSION ANCHORS. ANCHORS SHALL BE HILTI KWIK BOLT 3 AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH HILTI CARBIDE TIPPED DRILL BITS OR MATCHED TOLERANCE DIAMOND CORE BITS. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS.
4. INJECTED ADHESIVE ANCHORS SHALL BE USED FOR INSTALLATION OF THREADED RODS. ADHESIVE SHALL BE FURNISHED IN A SIDE BY SIDE REFILL PACK WHICH KEEP COMPONENT A AND B SEPARATE. INJECTION ADHESIVE SHALL BE HILTI HIT HY 200 AS SUPPLIED BY HILTI INC. TULSA OKLAHOMA. ANCHOR RODS MEET ASTM F1554 (36 KSI). NUTS AND WASHERS SHALL BE FURNISHED TO MEET THE REQUIREMENTS OF AN ASTM F1554 (36 KSI) STEEL ROD.

DELEGATED DESIGN

1. SELECT SCOPE ITEMS IN THE PROJECT ARE CUSTOM DESIGNED AND ENGINEERED. THE ENGINEERING RESPONSIBILITY IS DELEGATED TO THE CONTRACTOR AND RELATED SUBCONTRACTORS.
2. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS FOR SUCH ELEMENTS DESIGNATED TO BE DESIGNED BY A DELEGATED ENGINEER.
3. DELEGATED ENGINEERING WILL ADDRESS ALL LOADING REQUIREMENTS INCLUDING WIND PRESSURES IN ACCORDANCE WITH THE LATEST FLORIDA BUILDING CODE. REFER TO THE COMPONENTS AND CLADDING PRESSURES PROVIDED FOR DESIGN PRESSURES ELEMENTS SHALL BE IN CONFORMANCE WITH.
4. DELEGATED ENGINEERED DRAWINGS SHALL DEFINE MATERIAL THICKNESS, SIZING, CONNECTIONS, ETC. OF THE SUBMITTED SYSTEM.
5. DELEGATED ENGINEERED DRAWINGS WILL BE REVIEWED AS PART OF THE SUBMITTAL PROCESS.
6. BUILDING COMPONENTS THAT ARE NOT SPECIFIED AS DELEGATED TO OTHER ENGINEERS SHALL BE SUBMITTED WITH APPROPRIATE FLORIDA PRODUCT APPROVAL INFORMATION IN THE SUBMITTAL. WHERE A FLORIDA PRODUCT APPROVAL DOES NOT EXIST FOR A COMPONENT REQUIRING APPROVAL, THE DESIGN SHALL BE DELEGATED TO AN ENGINEER ON THE CONTRACTOR'S TEAM.

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SHEET LIST

Sheet Number	Sheet Name
S101	GENERAL STRUCTURAL NOTES
S102	WIND DESIGN DATA AND LOAD SCHEDULE
S201	FOUNDATION PLAN
S202	SLAB ON GRADE PLAN
S203	LOW ROOF FRAMING PLAN
S204	HIGH ROOF FRAMING PLAN
S301	TYPICAL DETAILS
S302	TYPICAL DETAILS
S303	TYPICAL DETAILS
S304	TYPICAL DETAILS
S305	TYPICAL DETAILS
S401	SECTIONS AND DETAILS
S402	SECTIONS AND DETAILS
S403	SECTIONS AND DETAILS
S404	SECTIONS AND DETAILS
S405	SECTIONS AND DETAILS
S406	SECTIONS AND DETAILS
S501	WALL ELEVATIONS
S502	WALL ELEVATIONS
S503	WALL ELEVATIONS
S504	WALL ELEVATIONS
S505	WALL ELEVATIONS
S601	SCHEDULES
S701	3D ISOMETRIC VIEWS

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

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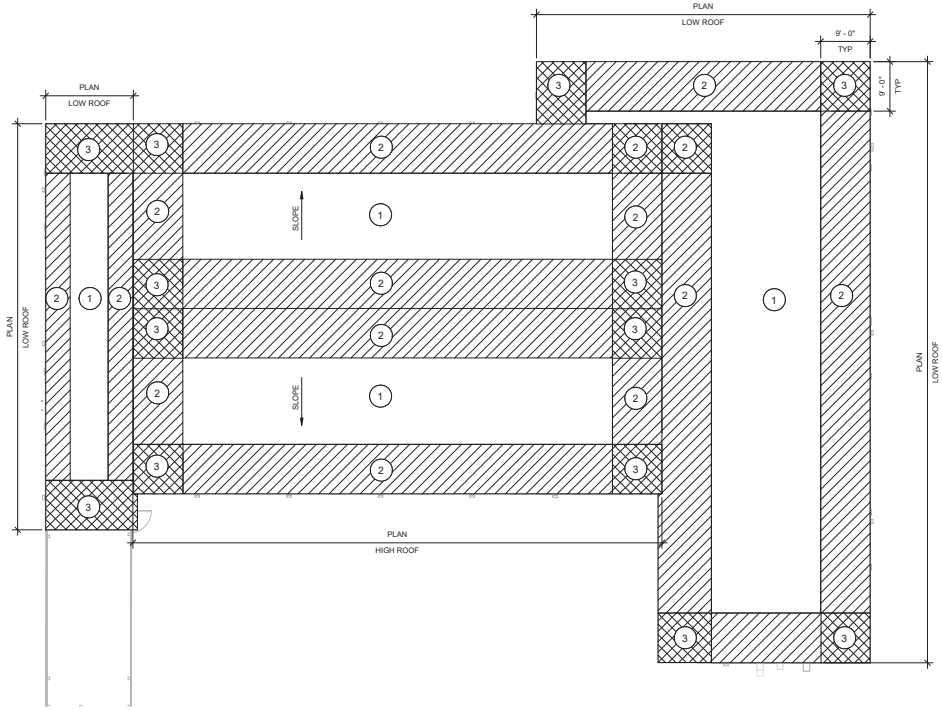
GENERAL STRUCTURAL NOTES

S101



3 S102 OVERALL ROOF ZONE DIAGRAM
SCALE: 3/32" = 1'-0"

LOAD SCHEDULE:

ROOF:	DEAD LOAD		
	1 1/2" METAL DECK	=	3 PSF
	STEEL FRAMING	=	5 PSF
	CEILING	=	3 PSF
	INSULATION	=	5 PSF
	MEP	=	7 PSF
	MISCELLANEOUS	=	2 PSF
	ROOFING	=	5 PSF
			30 PSF
	LIVE LOAD	=	20 PSF
	ROOF TOTAL LOAD		50 PSF

WIND DESIGN DATA:

CODE:
ASCE 7-10 FLORIDA BUILDING CODE, (SIXTH EDITION) 2017.

BASIC WIND SPEED	148 mph (Vult) 115 mph (Vasd)
CATEGORY (RISK)	IV
EXPOSURE	C
BUILDING HEIGHT	22ft.
ENCLOSURE CLASSIFICATION	ENCLOSED
INTERNAL PRESSURE COEFFICIENT	± 0.18

* GLAZED OPENINGS IN RISK CATEGORY II, III, IV LOCATED IN HURRICANE PRONE REGIONS SHALL BE PROTECTED IN ACCORDANCE WITH FBC 2017 SEC. 1609.1.2

COMPONENTS AND CLADDING (ULTIMATE) UPLIFT PRESSURE SCHEDULE

PATTERN	ZONE	MAIN ROOF EFFECTIVE WIND AREA				
		10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.
	1	25 PSF/-61 PSF	24 PSF/-59 PSF	21 PSF/-57 PSF	20 PSF/-56 PSF	20 PSF/-56 PSF
	2	25 PSF/-102 PSF	24 PSF/-92 PSF	21 PSF/-76 PSF	20 PSF/-66 PSF	20 PSF/-66 PSF
	3	25 PSF/-153 PSF	24 PSF/-127 PSF	21 PSF/-92 PSF	20 PSF/-66 PSF	20 PSF/-66 PSF
	2 ov	-97 PSF	-95 PSF	-93 PSF	-92 PSF	-66 PSF
	3 ov	-153 PSF	-122 PSF	-81 PSF	-51 PSF	-51 PSF

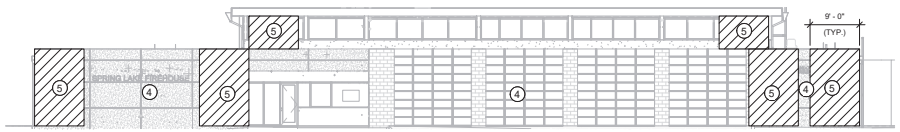
COMPONENTS AND CLADDING
DESIGN WIND PRESSURE (ULTIMATE) FOR WALLS, DOORS & WINDOWS

PATTERN	ZONE	EFFECTIVE WIND AREA				
		10 SQ. FT.	20 SQ. FT.	50 SQ. FT.	100 SQ. FT.	500 SQ. FT.
	4	+61 PSF/-66 PSF	+58 PSF/-63 PSF	+56 PSF/-61 PSF	+51 PSF/-56 PSF	+46 PSF/-51 PSF
	5	+61 PSF/-81 PSF	+58 PSF/-76 PSF	+56 PSF/-71 PSF	+51 PSF/-66 PSF	+46 PSF/-51 PSF

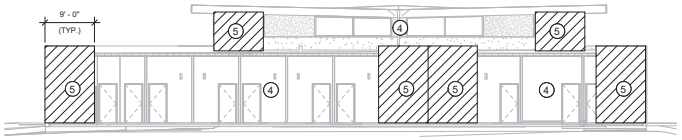
NOTE:

1. ALL EXTERIOR DOORS & WINDOW ASSEMBLIES SHALL SATISFY THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (SIXTH EDITION 2017, SECTION 1709.5). ALL CONNECTIONS TO BUILDING STRUCTURE SHALL HAVE THE CAPACITY TO WITHSTAND THE PRESSURES INDICATED IN THIS SCHEDULE.
2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.
3. ALL WIND PRESSURE VALUES INDICATED ARE IN POUNDS PER SQUARE FOOT (PSF). MULTIPLY ULTIMATE WIND PRESSURE BY 0.60 FOR ASD PRESSURE.

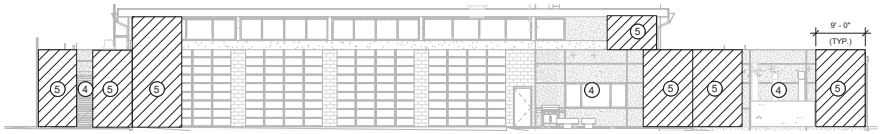
1 S102 WIND DESIGN & LOAD SCHEDULE
SCALE: 1/8" = 1'-0"



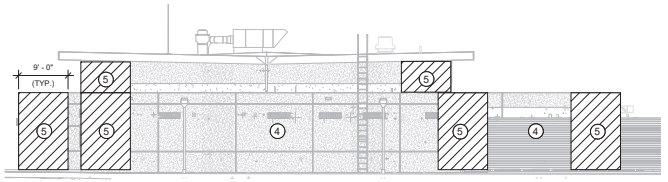
N S102 NORTH - WIND DESIGN
SCALE: 3/32" = 1'-0"



E S102 EAST - WIND DESIGN
SCALE: 3/32" = 1'-0"



S S102 SOUTH - WIND DESIGN
SCALE: 3/32" = 1'-0"



W S102 WEST - WIND DESIGN
SCALE: 3/32" = 1'-0"

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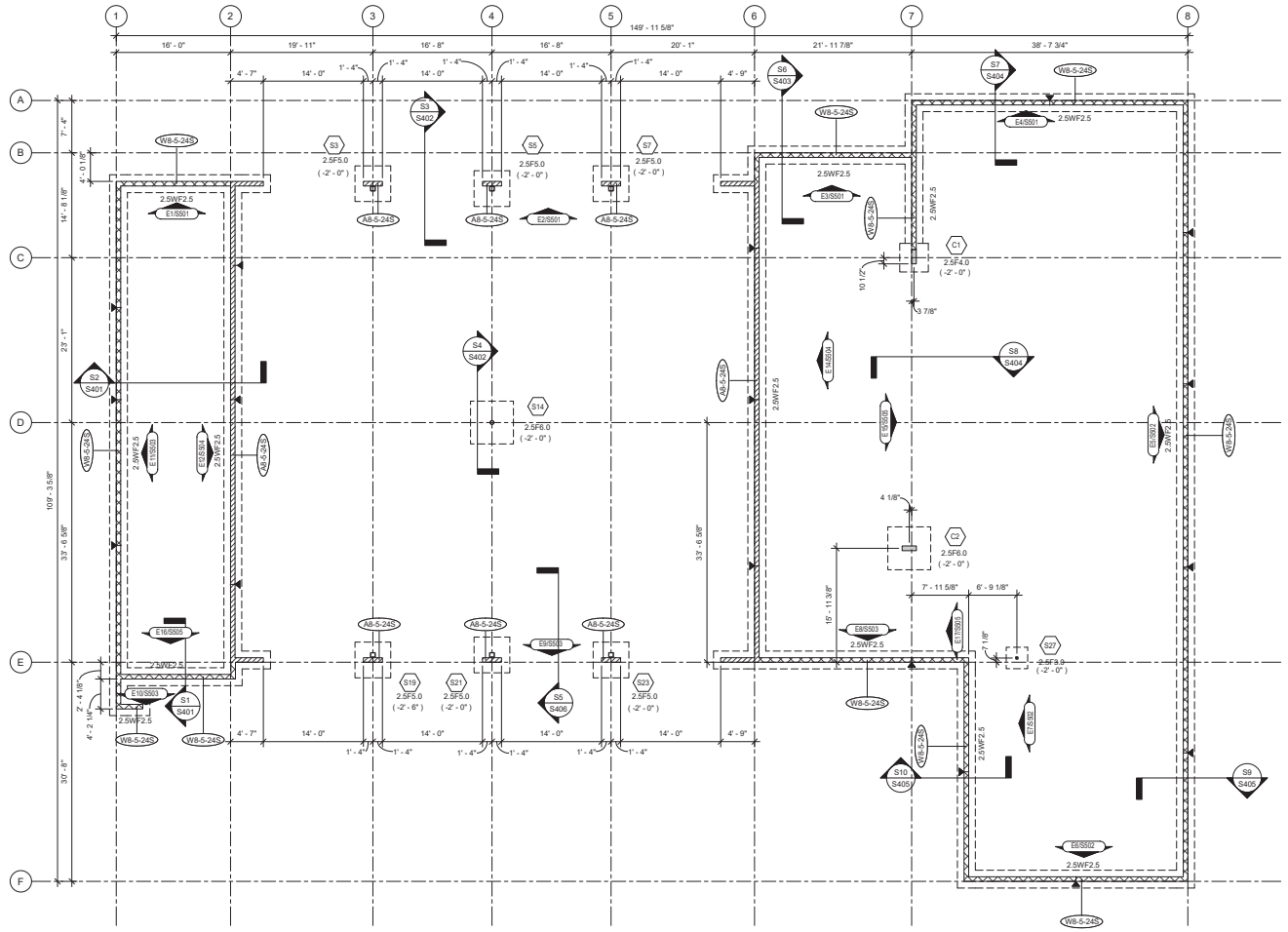
WIND DESIGN DATA AND LOAD SCHEDULE

S102



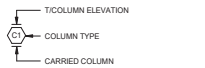
1 S201 FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FOR TYPICAL FOUNDATION PLAN DETAILS, SEE DRAWINGS S301 & S305.
2. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
3. FOR FOOTING SIZE AND REINFORCING, SEE SCHEDULE ON THIS DRAWING.
4. ( ) DENOTES TOP OF FOOTING ELEVATION.
5. TOP OF FOOTING: ELEVATION @ INTERIOR = (-2' - 0") TYPICAL U.N.O. ELEVATION @ EXTERIOR = (-2' - 0") TYPICAL U.N.O.
6. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
7. TYPICAL WALL REINFORCING SCHEDULE:
   A. FOR CMU AND ATLAS BRICK EXTERIOR WALL REINFORCING, SEE SCHEDULE THIS SHEET.
   B. ■ INDICATES ADDITIONAL (1) VERTICAL IN GROUT FILLED CELL.
   C. PROVIDE ADDITIONAL (1) VERTICAL IN FIRST (2) CELLS EACH SIDE OF ALL WALL OPENINGS, CORNERS AND INTERSECTIONS.

8. COLUMN DESIGNATION SHOWN THUS ⬡ ON PLAN. FOR SIZE AND REINFORCING SEE SCHEDULE ON DRAWING S601.



9. ALL CMU AND ATLAS BRICK WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
10. MASONRY CONTROL JOINTS SHOWN THUS ◀ ON PLAN. MAXIMUM SPACING OF JOINTS = 24'-0". COORDINATE LOCATION WITH THE ARCHITECT. AND STRUCT WALL ELEVATIONS. DO NOT LOCATE A MCJ CLOSER THAN 24" TO ANY CMU AND ATLAS BRICK OPENINGS. SEE TYPICAL DETAIL 4-002 ON S302.

WALL KEY	WALL SCHEDULE	
	TYPE	DESCRIPTION
	A8-5-24S	8" ATLAS BRICK LOAD BRG WALL REINF. W/ #5 @ 24" O.C.
	C8-5-18S	8" CONCRETE WALL REINF. W/ #5 AT 18" O.C. EACH WAY
	W8-5-24S	8" CMU WALL REINF. W/ #5 AT 24" O.C.
	W8-5-32S	8" CMU WALL REINF. W/ #5 AT 32" O.C.

WALL FOOTING SCHEDULE

MARK*	WIDTH	THICKNESS	TOP & BOTT. REINF. CONT.	TOP & BOTT. REINF. TRANSV.	REMARKS
2.5WF2.5	2' - 6"	1' - 4"	3-#5	#4 @ 16"	STD ACI HOOK

COLUMN FOOTING SCHEDULE

MARK*	LENGTH	WIDTH	THICKNESS	TOP & BOTT. REINF.* EA. WAY U.N.O.	REMARKS
2.5F3.0	3' - 0"	3' - 0"	1' - 6"	6-#4	STD ACI HOOK
2.5F4.0	4' - 0"	4' - 0"	1' - 6"	5-#5	STD ACI HOOK
2.5F5.0	5' - 0"	5' - 0"	1' - 6"	6-#5	STD ACI HOOK
2.5F6.0	6' - 0"	6' - 0"	1' - 6"	5-#6	STD ACI HOOK

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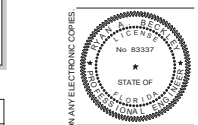

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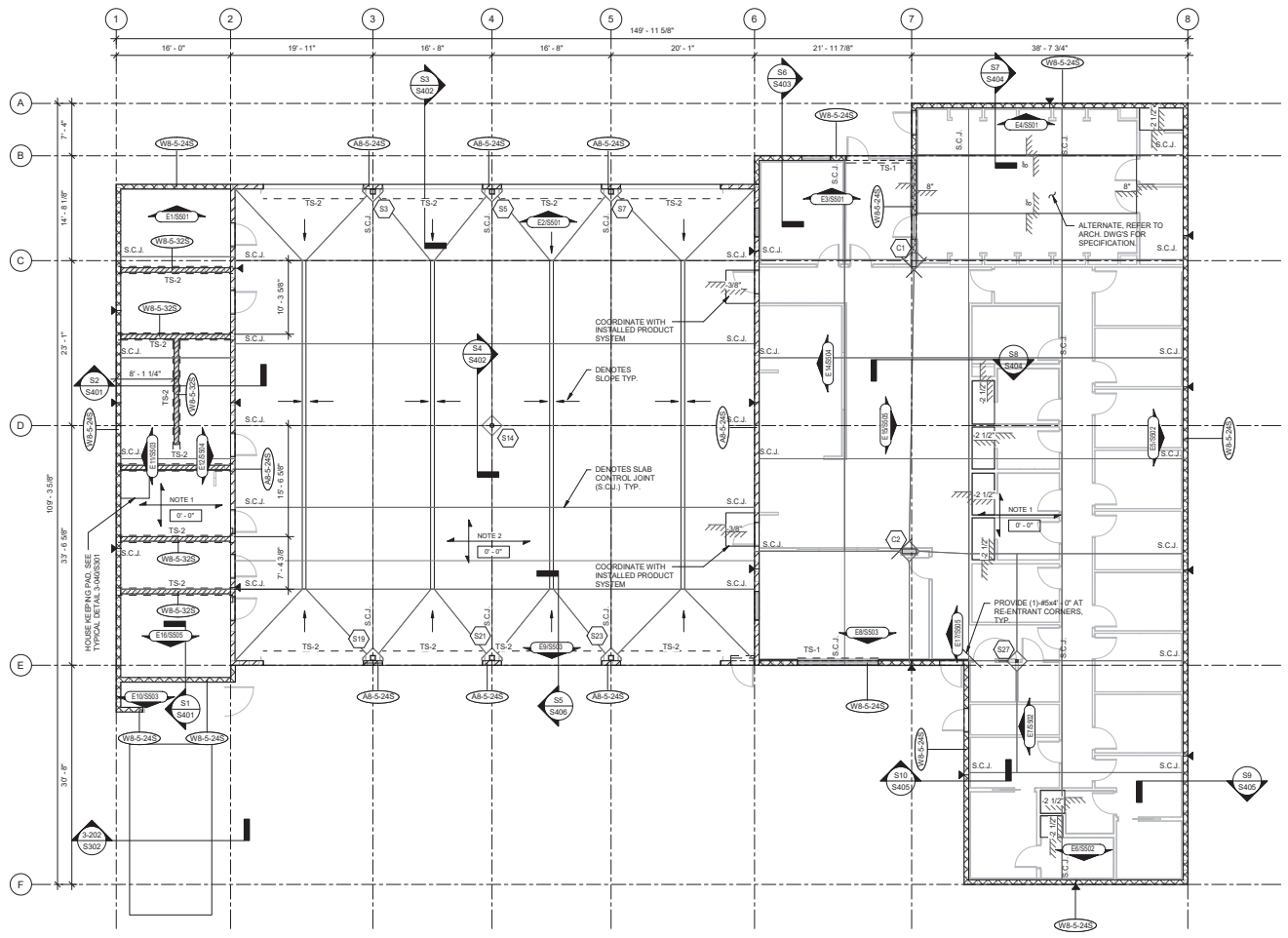
FOUNDATION PLAN

S201



1 S202 SCALE: 1/8" = 1'-0"

SLAB ON GRADE PLAN

SLAB ON GRADE PLAN NOTES:

1. SLAB ON GRADE TO BE 4" THICK CONCRETE OVER VAPOR BARRIER ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT REINFORCED WITH 6x6xW2.1xW2.1 W.W.F. (FLAT SHEETS) CENTERED IN SLAB. SUPPORT WELDED WIRE FABRIC WITH 2" SLAB BOLSTER OR APPROVED EQUAL @ 3'-0"(±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
2. SLAB ON GRADE TO BE 8" THICK CONCRETE OVER VAPOR BARRIER CONFORMING TO ASTM E-1745 ON COMPACTED SUB-BASE AS PER GEOTECHNICAL REPORT AND REINFORCED WITH #4 @ 12" O.C. EACH WAY TOP AND BOTTOM. SUPPORT REINFORCING ON 3 1/2" SLAB BOLSTERS OR APPROVED EQUAL @ 3'-0" (±) O.C. BOTH WAYS. USE OF CONCRETE BRICK IS NOT ALLOWED.
3. VAPOR BARRIER REQUIREMENTS/APPLICATION/INSTALLATION SHALL BE DONE AS PER ARCHITECTURAL OR MOISTURE CONSULTANT DOCUMENTS AND RECOMMENDATIONS. IF NONE ARE AVAILABLE, AT A MINIMUM THE FOLLOWING RECOMMENDATIONS SHALL BE FOLLOWED.
   - A. VAPOR BARRIER SHALL CONFORM TO ASTM E-1745 , MEETS OR EXCEEDS CLASS "B".
   - B. VAPOR BARRIER INSTALLATION SHALL FOLLOW MANUFACTURER'S INSTRUCTIONS AND ASTM E 1643.
   - C. UNROLL VAPOR BARRIER WITH THE LONGEST DIMENSION PARALLEL WITH THE DIRECTION OF THE POUR.
   - D. LAP VAPOR BARRIER OVER FOOTINGS AND SEAL TO FOUNDATION WALLS.
   - E. OVERLAP JOINTS 6 INCHES AND SEAL WITH MANUFACTURER'S TAPE.
   - F. SEAL ALL PENETRATIONS (INCLUDING PIPES) WITH MANUFACTURER'S PIPE BOOT.
   - G. NO PENETRATION OF THE VAPOR BARRIER IS ALLOWED EXCEPT FOR REINFORCING STEEL AND PERMANENT UTILITIES.
   - H. REPAIR DAMAGED AREAS BY CUTTING PATCHES OF VAPOR BARRIER, OVERLAPPING DAMAGED AREA 6 INCHES AND TAPING ALL FOUR SIDES WITH TAPE.
4. TOP OF SLAB ELEVATION SHOWN THUS "0" ON PLAN EQUALS REFERENCE EL., FOR ACTUAL EL., SEE CIVIL DRAWINGS.
5. FOR GENERAL STRUCTURAL NOTES, SEE DRAWING S101.
6. FOR FLOOR SLAB DEPRESSION LOCATIONS AND LIMITS NOT SHOWN ON PLAN SEE ARCHITECTURAL DRAWINGS.
7. FOR PLAN DIMENSIONS NOT SHOWN, REFER TO ARCHITECTURAL DRAWINGS.
8. COLUMN DESIGNATION SHOWN THUS ⬡ ON PLAN. FOR SIZE AND REINFORCING SEE SCHEDULE ON SHEET S601.

9. COORDINATE LOCATION OF (CJ) CONTROL JOINTS (SAWCUTS & TOOLED JOINTS) AT WALKWAY SLABS WITH ARCHITECTURAL DRAWINGS. CONTROL JOINTS AT EXPOSED TO WEATHER WALKWAYS SHALL BE TOOLED JOINTS SEE TYPICAL DETAIL 3-201 ON S302.
10. ALL CMU AND ATLAS BRICK WALLS SHALL BE REINFORCED AS SHOWN ON PLAN WITH DOWELS TO MATCH, U.N.O. ALL CELLS AT REINFORCING LOCATION SHALL BE FILLED WITH GROUT. PROVIDE INSPECTION/CLEANOUT HOLE AT BASE WHEN POUR HEIGHT IS GREATER THAN 4'-0".
11. RAIN LEADER SHOWN THUS ⊗ R.L ON PLAN. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
12. GENERAL CONTRACTOR TO COORDINATE LOCATION OF ALL WALL PENETRATIONS REQUIRED FOR MECHANICAL EQUIPMENT AND PROVIDE A PRECAST LINTEL AT ALL OPENINGS REFER TO TYPICAL DETAIL 4-004 ON S302.
13. MASONRY CONTROL JOINT SHOWN THUS ◥ MCJ ON PLAN. MAXIMUM SPACING OF JOINTS = 24' -0", COORDINATE LOCATION WITH THE ARCH. & STRUCT WALL ELEVATIONS. DO NOT LOCATE A MCJ CLOSER THAN 24" TO ANY CMU AND ATLAS BRICK OPENING. SEE TYPICAL DETAIL 4-002 ON S302

WALL SCHEDULE

WALL KEY	TYPE	DESCRIPTION
	A8-5-24S	8" ATLAS BRICK LOAD BRG WALL REINF. W/ #5 @ 24" O.C.
	C8-5-18S	8" CONCRETE WALL REINF. W/ #5 AT 18" O.C. EACH WAY
	W8-5-24S	8" CMU WALL REINF. W/ #5 AT 24" O.C.
	W8-5-32S	8" CMU WALL REINF. W/ #5 AT 32" O.C.

THICKENED SLAB SCHEDULE

MARK*	SIZE	THICKNESS	TOP & BOTT.* REINF. CONT.	TOP & BOTT.* REINF. TRANSV.	REMARKS
TS-1	1' - 0" x CONT.	1' - 0"	(2)-#5	N/A	
TS-2	2' - 0" x CONT.	1' - 4"	(3)-#5	#4 @ 24" O.C.	
TS-3	2' - 0" x CONT.	1' - 4"	(3)-#5	#4 @ 24" O.C.	

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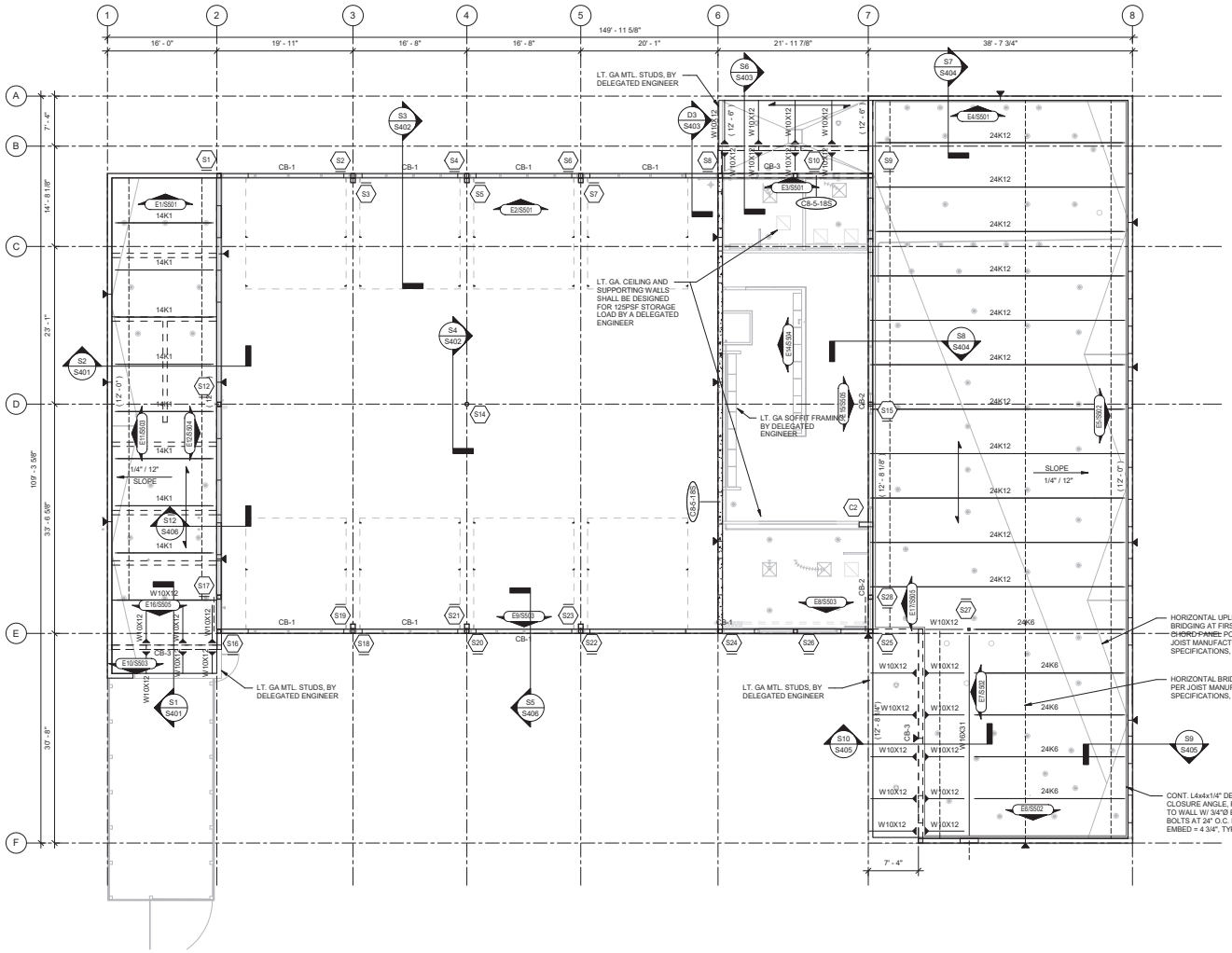
SLAB ON GRADE PLAN

S202



1 S203 LOW ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF FRAMING SHALL BE 2" - 20 GAGE METAL DECK SPANNING OVER OPEN WEB STEEL JOIST SPACED @ 7' - 0" O.C. (U.N.O.).
2. DIRECTION OF METAL DECK SPAN SHOWN THUS ◄—► ON PLAN.
3. FOR ROOF DRAIN LOCATIONS AND SIZE SEE ARCHITECTURAL DRAWINGS. FOR FRAMING SEE TYPICAL DETAIL 5-302/S304.
4. FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWING S301 THRU S305 & S101.
5. ( ) DENOTES UNDERSIDE OF METAL DECK (U.M.D.) ELEVATION.
6. JOIST MANUFACTURER TO DESIGN JOIST FOR THE UPLIFT FORCE SHOWN ON THE LOADING SCHEDULE AND PROVIDE CERTIFICATION THAT CHORD MEMBERS HAVE BEEN INVESTIGATED FOR REVERSE STRESSES DUE TO ALL UPLIFT FORCES. ADDITIONAL BRIDGING SHALL BE PROVIDED AT THE FIRST INTERIOR BOTTOM CHORD PANEL POINT OF ALL JOISTS SUBJECT TO NET UPLIFT PER STEEL JOIST INSTITUTE.
7. FRAME ALL JOIST BOTTOM CHORD MEMBERS TO BEAM BOTTOM FLANGES. INSTALLATION TO BE DONE AFTER ALL DEAD LOADS ARE APPLIED.
8. RAIN LEADER SHOWN THUS ⊗ R.L. ON PLAN. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
9. FOR PLAN DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
10. + + + + + + DENOTES FLAT ROOF.
11. PROVIDE MOMENT CONNECTION AT BEAMS SHOWN THUS ◄—► ON PLAN.
12. COLUMN DESIGNATIONS SHOWN THUS ⬡ ON PLAN. FOR COLUMN SCHEDULE, SEE DRAWING S601.
13. ⬡ DENOTES COLUMN STOP AT THIS LEVEL.
14. FOR LOAD SCHEDULE & WIND DESIGN DATA, SEE DRAWING S102.

CONCRETE BEAM SCHEDULE

MARK	BEAM WIDTH	BEAM DEPTH	CONT. REINFORCING	TIE REINFORCING	REMARKS
CB-1	7 5/8"	20"	(2)#6 T&B CONT.	#3 @ 8" O.C.	
CB-2	7 5/8"	68"	(6)-#7 T&B CONT.	#3 @ 8" O.C.	PLACE IN (3)LAYERS PROVIDE #5@8"O.C. LONGIT. EA. FACE
CB-3	7 5/8"	24"	(2) #5 T&B CONT.	#3 @ 8" O.C.	

DECK LEGEND

- DENOTES 2"- 20 GAGE EPICORE ER2R
- DENOTES 2" - 20 GAGE EPICORE - ER2RA ACOUSTICAL

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

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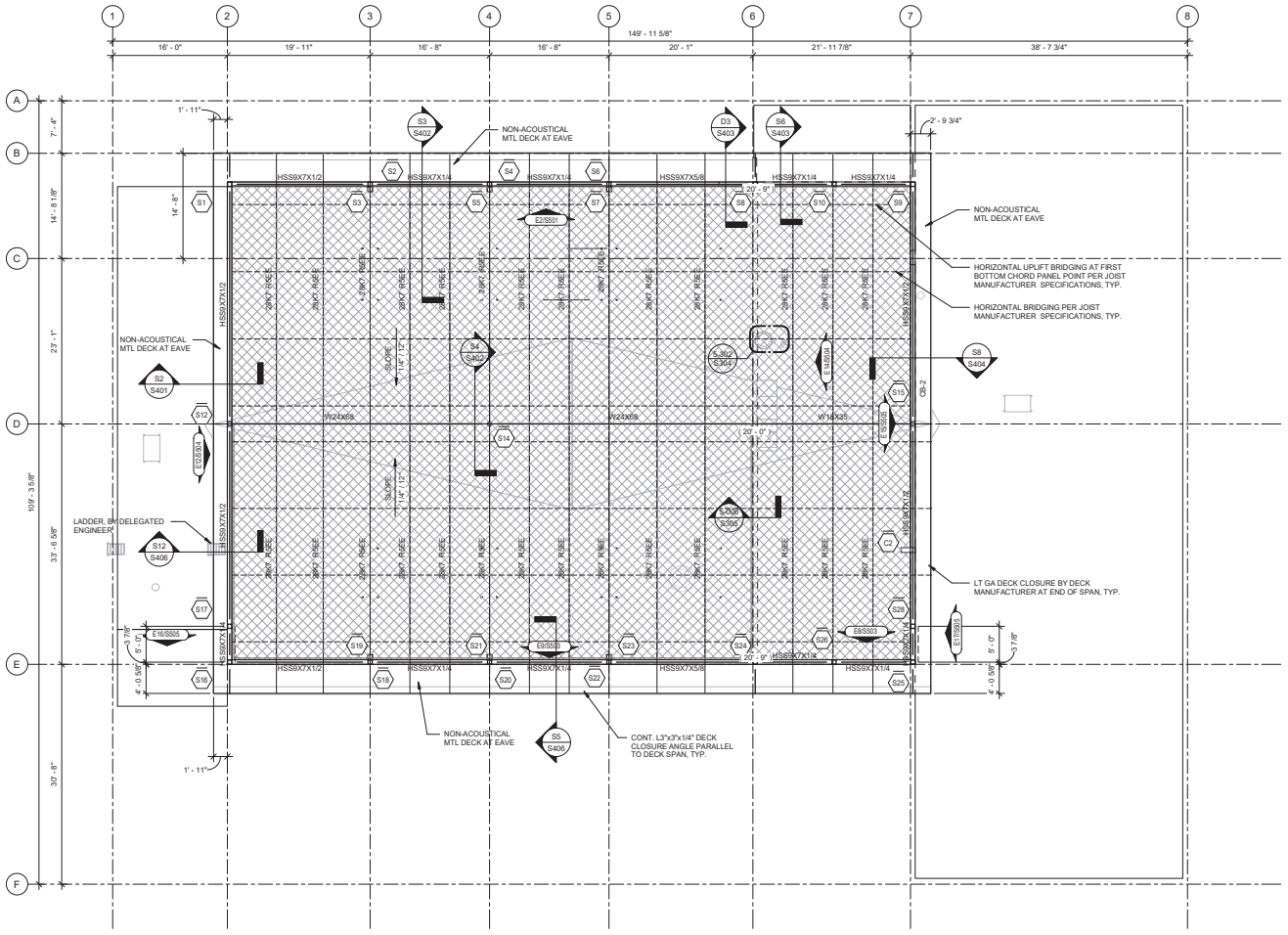
LOW ROOF FRAMING PLAN

S203



S / S204 HIGH ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES:

1. ROOF FRAMING SHALL BE 2" - 20 GAGE METAL DECK SPANNING OVER OPEN WEB STEEL JOIST SPACED @ 7' - 0" O.C. (U.N.O.).
2. DIRECTION OF METAL DECK SPAN SHOWN THUS ⟵ ON PLAN.
3. FOR ROOF DRAIN LOCATIONS AND SIZE SEE ARCHITECTURAL DRAWINGS. FOR FRAMING SEE TYPICAL DETAIL S-302/S304.
4. FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWING S301 THRU S305 & S101.
5. ( ) DENOTES UNDERSIDE OF METAL DECK (U.M.D.) ELEVATION.
6. JOIST MANUFACTURER TO DESIGN JOIST FOR THE UPLIFT FORCE SHOWN ON THE LOADING SCHEDULE AND PROVIDE CERTIFICATION THAT CHORD MEMBERS HAVE BEEN INVESTIGATED FOR REVERSE STRESSES DUE TO ALL UPLIFT FORCES. ADDITIONAL BRIDGING SHALL BE PROVIDED AT THE FIRST INTERIOR BOTTOM CHORD PANEL POINT OF ALL JOISTS SUBJECT TO NET UPLIFT PER STEEL JOIST INSTITUTE.
7. FRAME ALL JOIST BOTTOM CHORD MEMBERS TO BEAM BOTTOM FLANGES. INSTALLATION TO BE DONE AFTER ALL DEAD LOADS ARE APPLIED.
8. RAIN LEADER SHOWN THUS ⊗ R.L. ON PLAN. SEE PLUMBING DRAWINGS FOR SIZE AND LOCATIONS.
9. FOR PLAN DIMENSIONS NOT SHOWN, SEE ARCHITECTURAL DRAWINGS.
10. ⬡ DENOTES FLAT ROOF.
11. PROVIDE MOMENT CONNECTION AT BEAMS SHOWN THUS ⟵◆⟶ ON PLAN.
12. COLUMN DESIGNATIONS SHOWN THUS ⬡ ON PLAN. FOR COLUMN SCHEDULE, SEE DRAWING S601.
13. ⬡ DENOTES COLUMN STOP AT THIS LEVEL.
14. FOR LOAD SCHEDULE & WIND DESIGN DATA, SEE DRAWING S102.

CONCRETE BEAM SCHEDULE

MARK	BEAM WIDTH	BEAM DEPTH	CONT. REINFORCING	TIE REINFORCING	REMARKS
CB-1	7 5/8"	20"	(2)#6 T&B CONT.	#3 @ 8" O.C.	
CB-2	7 5/8"	68"	(6)-#7 T&B CONT.	#3 @ 8" O.C.	PLACE IN (3)LAYERS PROVIDE #5@9"O.C. LONGIT. EA. FACE
CB-3	7 5/8"	24"	(2) #5 T&B CONT.	#3 @ 8" O.C.	

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HERNANDO COUNTY FIRE STATION #5

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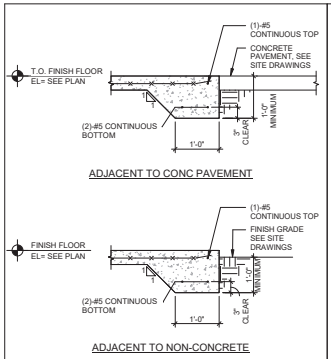
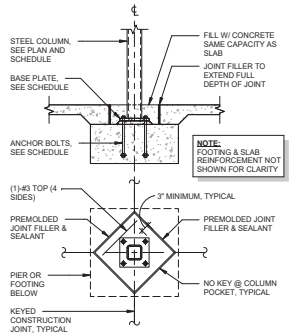
HIGH ROOF FRAMING PLAN

S204



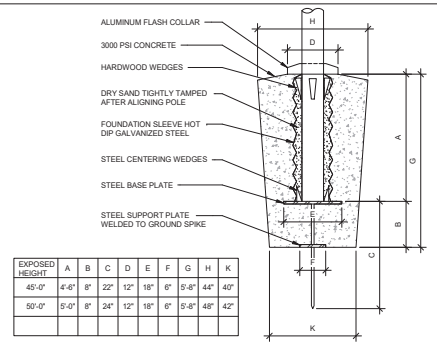
SLAB ON GRADE EDGE

3-007



TYPICAL STEEL COLUMN ISOLATION JOINT DETAIL

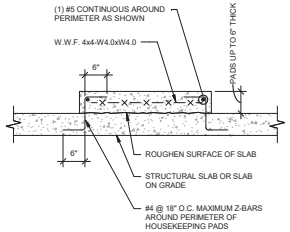
3-013



EXPOSED HEIGHT	A	B	C	D	E	F	G	H	K
45'-0"	4'-6"	8"	22"	12"	18"	6"	5'-8"	44"	40"
50'-0"	5'-0"	8"	24"	12"	18"	6"	5'-8"	48"	42"

FLAGPOLE FOUNDATION DETAIL (FOR EXPOSED HEIGHTS OF 45' & 50')

3-021



THE EXACT SIZE, SHAPE & LOCATION OF ALL EQUIPMENT (HOUSEKEEPING) PADS SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR THE EQUIPMENT.

CONCRETE EQUIPMENT PAD DETAILS

3-040

NOTE:
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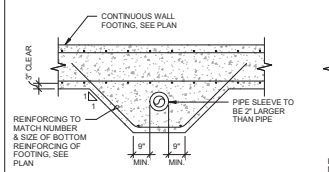
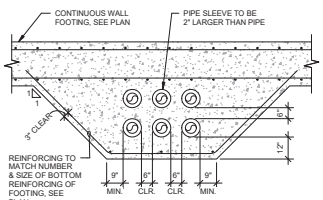


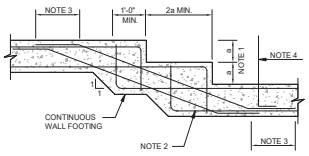
SINGLE PIPE DETAIL



BANK OF PIPES DETAIL

PIPE SLEEVE DETAIL AT FOUNDATION

3-054

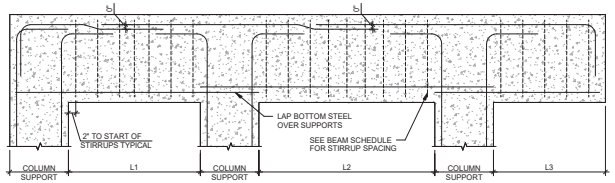


NOTE:

1. DIMENSION "a" TO BE KEPT IN BLOCK COURSING NOT TO EXCEED 1'-4" AT MASONRY WALLS OR 1'-6" AT CONCRETE WALLS.
2. FOOTING REINFORCING IN ALL BLOCK FOUNDATION WALLS (2)-#5 CONTINUOUS (EXTEND THRU SPREAD FOOTINGS U.N.O.).
3. DIMENSION = LAP TYPE "B" MINIMUM.
4. DOWELS AS REQUIRED.

TYPICAL STEPPED FOOTING DETAIL

3-055



NOTE:

1. WHERE TOP & BOTTOM BARS ARE IN MULTIPLE LAYERS, PROVIDE 1" CLEAR BETWEEN LAYERS TYPICAL.
2. SEE TENSION AND COMPRESSION LAP SPLICE TABLES FOR PROPER LAP AND CONCRETE STRENGTH.
3. ALL BOTTOM LAYERS OF STEEL MUST BE LAPPED OVER CENTERLINE OF SUPPORT.
4. ALL TOP AND INTERMEDIATE LAYERS OF STEEL MUST BE LAPPED AT MID-SPAN OF BEAM.
5. SEE CONCRETE BEAM SCHEDULE FOR ALL BEAM REINFORCING AND SEE FRAMING PLANS FOR BEAM DESIGNATION AND PLACEMENT.

TYPICAL CONCRETE BEAM BAR PLACEMENT DIAGRAM

3-062

f'c = 3000 PSI, NORMAL WEIGHT

BAR SIZE	LAP CLASS	TENSION LAP SPLICES: LAP LENGTH PER SPACING AND COVER CASE — CASE 1 TOP BARS	CASE 1 OTHER BARS	CASE 2 TOP BARS	CASE 2 OTHER BARS	COMPRESSION LAP SPLICES
#3	A	22	17	32	25	12
	B	28	22	42	32	
#4	A	29	22	43	33	15
	B	37	29	56	43	
#5	A	36	28	54	41	19
	B	47	36	70	54	
#6	A	43	33	64	50	23
	B	56	43	84	64	
#7	A	63	48	94	72	26
	B	81	63	122	94	
#8	A	72	55	107	82	30
	B	93	72	139	107	
#9	A	81	62	121	93	34
	B	105	81	157	121	
#10	A	91	70	136	105	38
	B	118	91	177	136	
#11	A	101	78	151	116	42
	B	131	101	196	151	

NOTES:

CASE 1

BEAMS AND COLUMNS:
CONCRETE COVER >/= TO BAR DIAMETER, C-C BAR SPACING >/= TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS:
CONCRETE COVER >/= TO THE BAR DIAMETER AND C-C BAR SPACING >/= TO 3X BAR DIAMETER.

CASE 2

BEAMS AND COLUMNS:
CONCRETE COVER < BAR DIAMETER AND C-C BAR SPACING < 2X BAR DIAMETER.

OTHER MEMBERS:
CONCRETE COVER < BAR DIAMETER OR C-C BAR SPACING < 3X BAR DIAMETER.

* LAP CLASS "B" IS TO BE USED UNLESS OTHERWISE SPECIFIED IN THESE CONTRACT DOCUMENTS.

TENSION AND COMPRESSION LAP SPLICES WITH F'c = 3000 PSI

3-065

f'c = 4000 PSI, NORMAL WEIGHT

BAR SIZE	LAP CLASS	TENSION LAP SPLICES: LAP LENGTH PER SPACING AND COVER CASE — CASE 1 TOP BARS	CASE 1 OTHER BARS	CASE 2 TOP BARS	CASE 2 OTHER BARS	COMPRESSION LAP SPLICES
#3	A	19	15	28	22	12
	B	24	19	36	28	
#4	A	25	19	37	29	15
	B	32	25	48	37	
#5	A	31	24	47	36	19
	B	40	31	60	47	
#6	A	37	29	56	43	23
	B	48	37	72	56	
#7	A	54	42	81	63	26
	B	70	54	106	81	
#8	A	62	48	93	71	30
	B	80	62	121	93	
#9	A	70	54	105	81	34
	B	91	70	136	105	
#10	A	79	61	118	91	38
	B	102	79	153	118	
#11	A	87	67	131	101	42
	B	113	87	170	131	

NOTES:

CASE 1

BEAMS AND COLUMNS:
CONCRETE COVER >/= TO BAR DIAMETER, C-C BAR SPACING >/= TO 2X BAR DIAMETER AND WITH STIRRUPS OR TIES THROUGHOUT TENSION LAP SPLICE LENGTH NOT LESS THAN THE CODE MINIMUM.

OTHER MEMBERS:
CONCRETE COVER >/= TO THE BAR DIAMETER AND C-C BAR SPACING >/= TO 3X BAR DIAMETER.

CASE 2

BEAMS AND COLUMNS:
CONCRETE COVER < BAR DIAMETER AND C-C BAR SPACING < 2X BAR DIAMETER.

OTHER MEMBERS:
CONCRETE COVER < BAR DIAMETER OR C-C BAR SPACING < 3X BAR DIAMETER.

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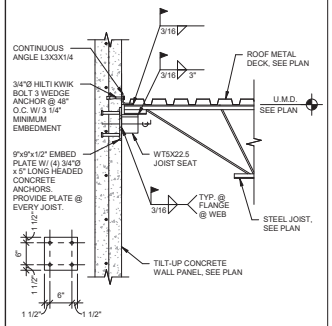
TENSION AND COMPRESSION LAP SPLICES WITH F'c = 4000 PSI

3-066



STEEL JOIST TO CONC. CONNECTION @ ROOF

3-712

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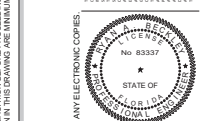

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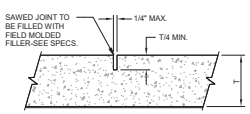
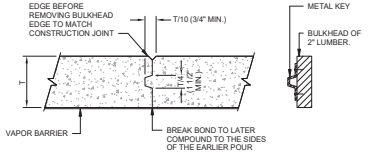
TYPICAL DETAILS

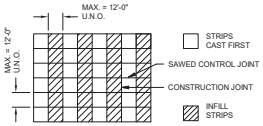
S301



SAWED CONTROL JOINT DETAIL



BULKHEAD DETAILS FOR CONSTRUCTION JOINT



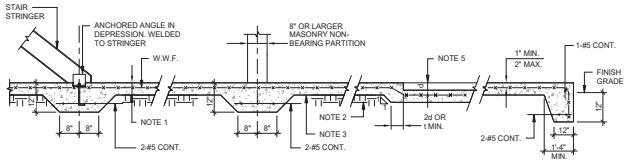
SLAB PLACEMENT SEQUENCE

NOTES:

1. CONCRETE FOR SLAB ON GRADE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS INDICATED ON THE "CONCRETE AND REINFORCING" NOTES.
2. SUPERPLASTICIZER SHALL BE USED IN SLAB ON GRADE CONCRETE - SEE SPECIFICATIONS.
3. SLAB ON GRADE CONCRETE MIX SHALL HAVE A WATER-CEMENT RATIO AS INDICATED IN SPECS AND OR NOTES.
4. CONSTRUCTION JOINTS SHALL BE LOCATED A MINIMUM OF 5'-0" AWAY FROM ANY OTHER JOINTS TO WHICH THEY ARE PARALLEL.
5. SAW CUTTING SHALL BE DONE WITH A POWER SAW WITH A MASONRY CUTTING BLADE. CUTTING SHALL BE DONE AS SOON AS CONCRETE HARDENS ENOUGH SO THAT THE BLADE DOES NOT DISLODGE THE AGGREGATES.
6. WHERE SAWCUT IS DISCONTINUED AT A TRANSVERSE JOINT, STOP CUT 2" SHORT.
7. SLAB REINFORING NOT SHOWN FOR CLARITY.

TYPICAL SLAB ON GRADE JOINT DETAILS

3-201



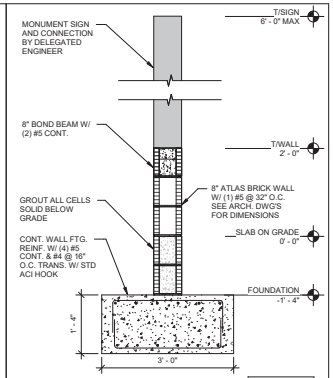
AT STAIR | HAUNCH AT PARTITION (NO JOINT) | AT DEPRESSION | EXTERIOR PLATFORM

UNLESS NOTED ON PLANS:

1. SEE FOUNDATION NOTES FOR SLAB THICKNESS AND REINFORCING.
2. SLABS SHALL BEAR ON COMPACTED FILL.
3. COMPACTED FILL SHALL BE COVERED WITH VAPOR BARIER AT HAUNCHES. SEE SPECS.
4. UNDER MACHINE EQUIPMENT DEEPEN SLAB TO 8" AND ADD TWO LAYERS OF WELDED WIRE FABRIC BOTTOM, U.N.O
5. FOR DEPRESSIONS - SEE ARCHITECTURAL DRAWINGS.
6. AT CONSTRUCTION JOINTS USE WOOD FORMS WITH SHEAR KEYS.
7. STOP WIRE MESH AT CONSTRUCTION JOINTS. CUT EVERY OTHER WIRE AT SAWCUT JOINT.
8. WHERE SLAB IS DOWELD INTO WALL, FIRST SLAB CONSTRUCTION JOINT TO BE NOT MORE THAN 15 FEET FROM WALL.
9. FOR EXPANSION JOINT LOCATION SEE PLAN. FOR DETAILS SEE ARCHITECTURAL DRAWINGS.

TYPICAL SLAB ON GRADE DETAILS

3-202



MONUMENT SIGN WALL

3-998

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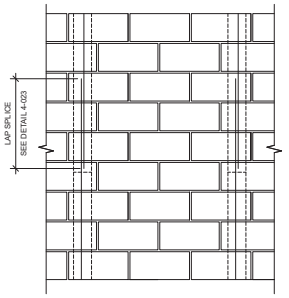
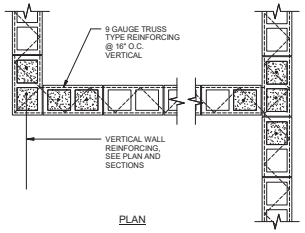


ELEVATION



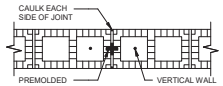
PLAN

NOTE:

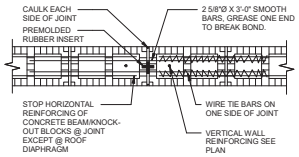
PROVIDE INSPECTION PORT AT BOTTOM OF LIFT GREATER THAN 4' - 0" IN HEIGHT.

TYP MASONRY WALL DETAIL

4-001



MASONRY CONTROL AT REGULAR BLOCKS
NOTE: DISCONTINUE HORIZONTAL REINFORCING AT JOINT



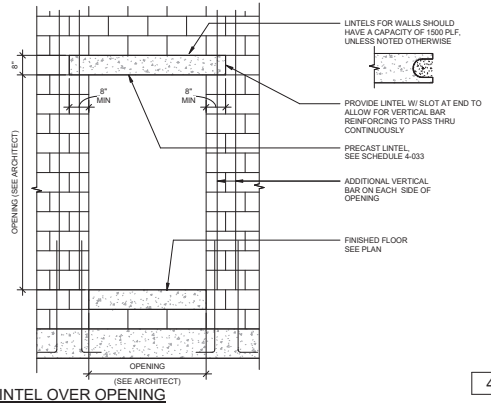
MASONRY CONTROL AT CONC. BEAM/KNOCK-OUT BLOCKS
NOTE: DISCONTINUE HORIZONTAL REINFORCING AT JOINT

NOTE:

1. MAXIMUM SPACING OF CONTROL JOINT EQUALS 24'-0" OR THREE TIMES WALL HEIGHT (WHICH EVER IS SMALLER)

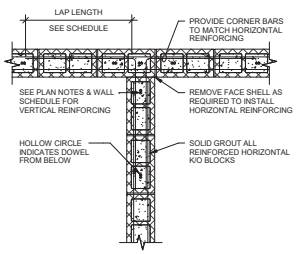
MASONRY CONTROL JOINT

4-002



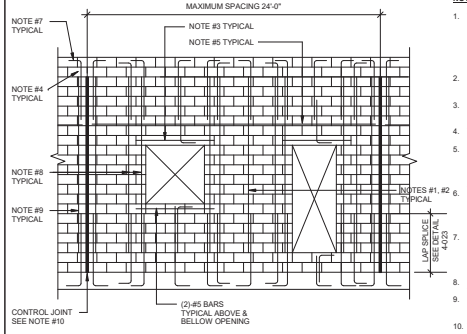
TYPICAL LINTEL OVER OPENING

4-005



TYPICAL MASONRY K/O BLOCK REINFORCING LAYOUT

4-008

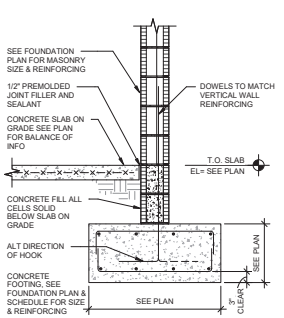


NOTES:

1. VERTICAL WALL REINFORCING SHALL ALIGN WITH VERTICAL FOUNDATION DOWELS. DOWELS SHALL BE PLACED AS SHOWN ON DETAILS WITH STANDARD ACI HOOK DIRECTLY ON TOP OF BOTTOM LAYER OF FOOTING REINFORCING. REFER TO CMU WALL REINFORCING SCHEDULE ON PLAN FOR SIZE AND SPACING.
2. TYPICAL VERTICAL WALL REINFORCING TO BE PLACED AS SHOWN ON DETAILS. GROUT CELLS FULL THAT CONTAIN REINFORCEMENT.
3. REFER TO MASONRY LINTEL SCHEDULE FOR SIZE, LOCATION AND QUANTITY OF LINTEL REINFORCEMENT.
4. VERTICAL REINFORCING BARS MAY BE SPLICED IN 6'-0" TO 8'-0" LENGTHS.
5. HORIZONTAL WALL REINFORCING SHALL BE TRUSS TYPE AT 16" O.C. ABOVE GRADE AND 8" O.C. BELOW GRADE UNLESS OTHERWISE NOTED ON PLANS AND DETAILS. DISCONTINUE AT CONTROL JOINTS.
6. CONTRACTOR SHALL USE THE LOW LIFT METHOD OF GROUTED MASONRY CONSTRUCTION UNLESS CLEAN OUTS ARE PROVIDED AT EACH VERTICAL REINFORCING BAR.
7. REFER TO PLANS AND DETAILS FOR SIZE AND LOCATION OF BOND BEAMS AND QUANTITY OF REINFORCING. LAP REINFORCING 24" MINIMUM. DISCONTINUE BOND BEAMS AT CONTROL JOINTS.
8. REFER TO LINTEL SCHEDULE NOTES FOR VERTICAL BARS ADJACENT TO OPENING.
9. PROVIDE VERTICAL WALL REINFORCING IN FIRST CELL NEXT TO CONTROL JOINTS/CORNERS/OPENINGS, TYPICAL.
10. VERTICAL CONTROL JOINTS SHALL TERMINATE AT TOP OF FOOTING.
11. PROVIDE CORNER BARS TO MATCH TYPE AND QUANTITY OF HORIZONTAL WALL REINFORCING, TYPICAL.

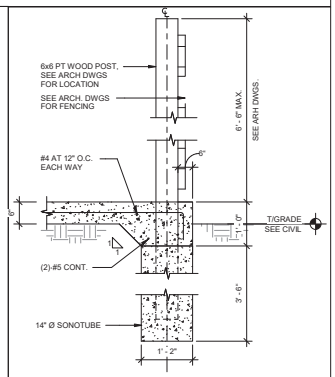
MASONRY WALL REINFORCING LAYOUT

4-009



PARTIAL MASONRY WALL SECTION

4-012



MONUMENT SIGN WALL

4-045

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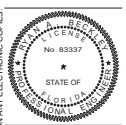

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

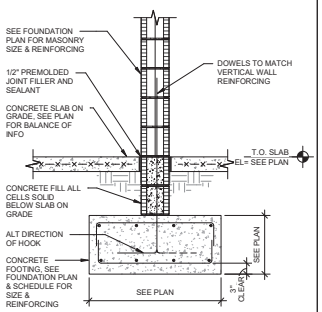
DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

TO THE BEST OF OUR KNOWLEDGE INFORMATION AND RECORDS SET FORTH IN THESE CONSTRUCTION DOCUMENTS SATISFY THE FLORIDA BUILDING CODE, SIXTH EDITION 2017, ACI 318-14 AND LOCAL CODES AS APPLICABLE

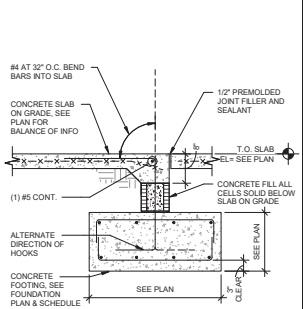
TYPICAL DETAILS

S302



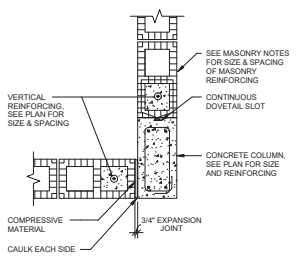
PARTIAL MASONRY WALL SECTION

4-015



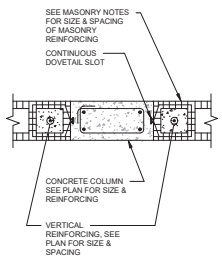
SLAB HAUNCH BEARING ON CMU WALL SECTION

4-017



CONCRETE COLUMN TO MASONRY CORNER CONNECTION

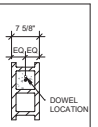
4-021



CONCRETE COLUMN TO MASONRY CONNECTION

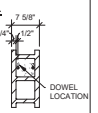
4-022

LAP SPLICE SCHEDULE FOR SINGLE REINFORCED 8" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	



LAP SPLICE SCHEDULE SINGLE REINFORCED 8" CMU WALL

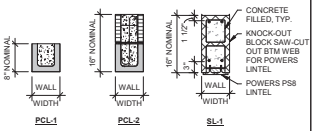
LAP SPLICE SCHEDULE FOR DOUBLE REINFORCED 8" CMU WALL		
BAR SIZE	LAP SPLICE	REMARKS
#3	18"	
#4	24"	
#5	30"	
#6	36"	



LAP SPLICE SCHEDULE DOUBLE REINFORCED 8" MASONRY WALL

4-023

CMU LINTEL SCHEDULE					
MARK	LINTEL DEPTH	BOTTOM REINFORCING	TOP REINFORCING	STIRRUPS & SPACING	NOTES
SL-1	16"	(2) #5	(2) #5	N/A	POWERS PS8 LINTEL
PCL-1	8"	(2) #5	N/A	N/A	-
PCL-2	16"	(2) #5	(2) #5	#3 @ 8" O.C.	-



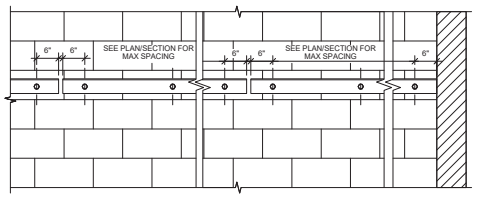
NOTES:

1. PRECAST CONCRETE LINTELS CAN BE INSTALLED AT ALL OPENINGS PER SCHEDULE. CAST IN PLACE CONCRETE LINTELS SHALL BE PLACED WHERE SHOWN ON PLANS. SUBSTITUTED UPON APPROVAL BY ENGINEER.
2. GROUTED LINTEL (THROUGH) BLOCKS SHALL EXTEND A MINIMUM OF 8" BEYOND FACE OF OPENING EACH SIDE UNLESS NOTED OTHERWISE. THE FIRST TWO VERTICAL CELLS EACH OF THE OPENING SHALL BE GROUTED AND CONTAIN 2-#5 VERTICAL EACH FACE.

   NOTE: THE FIRST & SECOND CELL EACH SIDE OF THE OPENING SHALL BE GROUTED TO ROOF LEVEL. SECOND CELL SHALL BE GROUTED TO ROOF LEVEL.
3. CONSTRUCTION/CONTROL JOINT SHALL NOT BE LOCATED WITHIN WIDTH OF OPENING, NOR SHALL IT BE LOCATED WITHIN 24" OF THE OPENING ON EITHER SIDE.
4. CONCRETE LINTEL BEARING EACH SIDE OF LINTEL TO BE EQUAL TO DEPTH OF LINTEL, TYPICAL UNLESS NOTED OTHERWISE.

TYP. PRECAST/C.I.P. LINTEL DETAIL

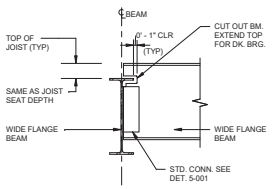
4-033



NOTES:
PROVIDE FIRST ANCHOR 6" (MAX) FROM EDGE OF MEMBER (ANGLE, CHANNEL,ETC.). SEE PLAN OR SECTION FOR MAXIMUM SPACING OF BALANCE OF ANCHORS.

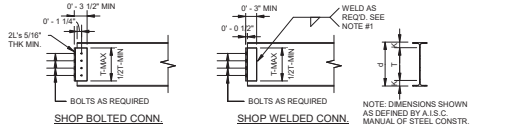
TYPICAL FOR ALL UNIFORMALY DISTRIBUTED ANCHORAGE

4-082

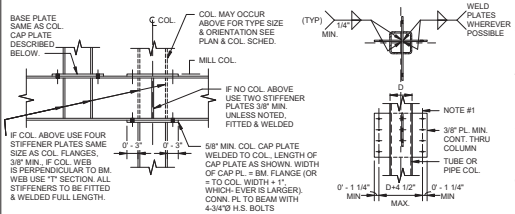


TYP. DETAIL WHERE WIDE FLANGE BEAMS REPLACE JOIST

5-002



SHOP BOLTED CONN. SHOP WELDED CONN.



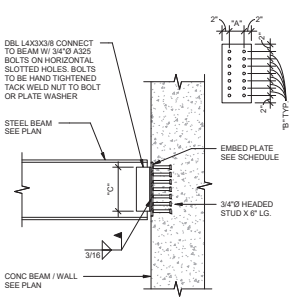
BEAM OVER COLUMN AND COLUMN OVER BEAM

FRAMED CONNECTION AT TUBE/PIPE COLUMN

NOTES:

1. ALL CONNECTIONS SHALL BE DESIGNED FOR 1/2 MAX. UNIFORM LOAD CARRYING CAPACITY UNLESS GREATER REACTION IS SHOWN ON PLAN. IN ANY CASE, CONNECTIONS SHALL NOT BE LESS THAN STD. A.I.S.C. CONNECTION FOR THE PARTICULAR BEAM. DEPTH.
2. DETAILER SHALL SUBMIT FOR APPROVAL, STANDARD CONNECTION DETAILS CONFORMING TO ABOVE DETAILS W/ERECTION DRAWING. SUBMISSION.
3. MILL COLUMNS. TO BEAR OR PROVIDE FULL PENETRATION WELD AT BASE PL'S & CAP PL'S AT COLUMNS CARRYING BEAMS.
4. AT CONNECTION OF HUNG BEAM. TO CANTILEVERED BEAMS. PROVIDE STANDARD 2 L CONNECTION AS PER NOTE 1 FOR LOAD CAPACITY OF HUNG BEAM.
5. WHERE BEAMS FRAME TO FITTED STIFFENERS AT COLUMNS PROVIDE SHEAR PLATE CONNECTION W/ STRENGTH CAPACITY AS PER NOTE 1.
6. ALL BOLTS TO BE MIN. 3/4"Ø. A-325 H.S. BOLTS FRICTION-TYPE UNLESS NOTED OTHERWISE. ALL WELDING ELECTRODES TO BE E70 XX.

5-001



EMBED PLATE SCHEDULE					
BEAM SIZE	PLATE SIZE	NO. OF 3/4"Ø HEADED STUDS	"A" (IN.)	"B" (IN.)	"C" (IN.)
W10	1/2" X 10" X 10"	4	6"	6	7
W12	1/2" X 10" X 12"	6	6"	4	9
W14	1/2" X 10" X 14"	6	6"	5	11
W16	1/2" X 10" X 16"	8	6"	4	13
W18	3/4" X 10" X 18"	10	6"	3 1/2	15
W21	3/4" X 10" X 22"	12	6"	3 1/2	18 1/2
W24	3/4" X 10" X 24"	14	6"	3	19
W27	1" X 10" X 27"	14	6"	3 1/2	22

STEEL BEAM TO CONCRETE CONNECTION

5-005

NOTE:
IN CASE OF CONFLICT BETWEEN INFORMATION SHOWN ON THE DRAWING, SECTION DRAWINGS OR ARCHITECTURAL DRAWINGS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INFORM THE ARCHITECT AND ENGINEER OF SUCH CONFLICT IN ORDER TO RESERVE A CLARIFICATION BEFORE PROCEEDING TO WORK. DIMENSIONS, SIZES AND REINFORCEMENT OF STRUCTURAL ELEMENTS SHOWN IN THIS DRAWING ARE MINIMUM TO BE USED UNLESS NOTED OTHERWISE (U.N.O.) IN PLANS.

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Project number
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PERMIT SET	08/31/20
BID SET	01/27/21

TYPICAL DETAILS

S303

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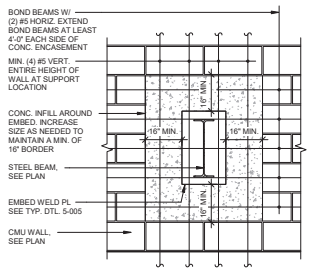
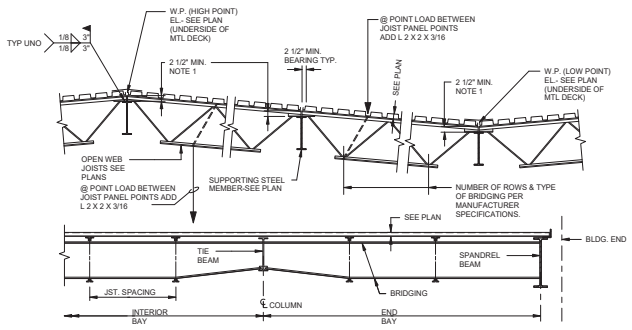


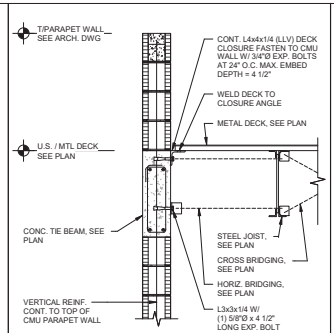
STEEL BEAM CONNECTION AT CMU WALL DETAIL 5-010



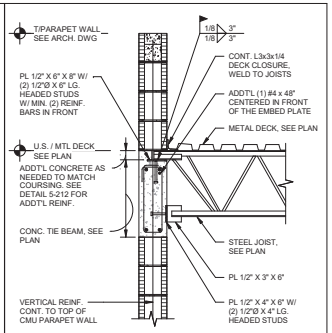
NOTES:

1. BEARING ENDS OF SLOPED JOISTS SHALL BE HORIZONTAL TO OBTAIN FULL CONTACT WITH SUPPORTING MEMBERS.
2. AT END BAYS, EXTEND ALL BOTTOM CHORDS & CONNECT TO SPANDREL BEAMS.
3. CEILING EXTENSIONS ARE REQUIRED FOR O.W.J. ABOVE HUNG CEILING AREAS WHERE SHOWN ON ARCH. DRAWINGS.

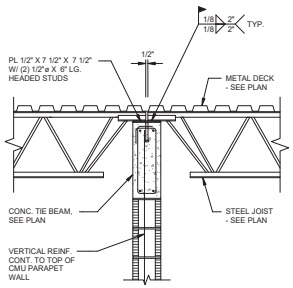
TYP. OPEN WEB JOIST DETAILS - SLOPED ROOF 5-201



SECTION AT WALL SINGLE BEARING 5-204

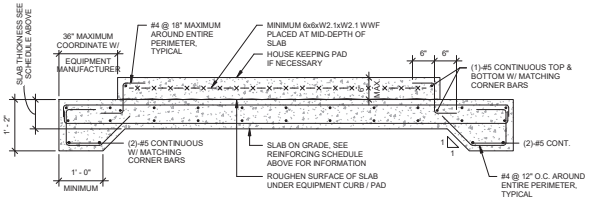


SECTION AT WALL SINGLE BEARING 5-205



SECTION AT WALL DOUBLE BEARING 5-206

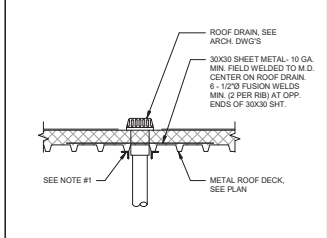
SLAB THICKNESS	REINFORCING
8"	#4 @ 12" O.C EACH WAY TOP & BOTTOM
6"	#4 @ 12" O.C. EACH WAY (CENTERED IN SLAB)



NOTES:

1. THE EXACT SIZE, SHAPE AND LOCATION OF ALL EQUIPMENT (HOUSEKEEPING) PADS SHALL BE DETERMINED BY THE CONTRACTOR AFTER APPROVAL OF SHOP DRAWINGS FOR THE EQUIPMENT.

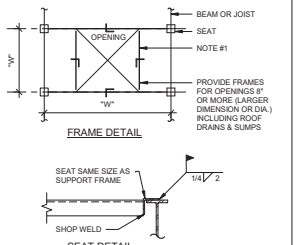
HEAVY MACHINE / EQUIPMENT SLAB ON GRADE DETAIL 3-203



NOTE:

1. SEE DETAIL 5-302 FOR STEEL REINFORCING AROUND ROOF DRAIN OPENING.

TYP. DECK REINF. @ ROOF DRAIN W/O SUMP PAN 5-301

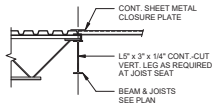


NOTES:

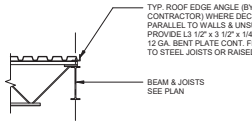
1. ANGLES ALL SIDES UNLESS BEAMS SHOWN ON PLAN:
   L2X2X1/4 FOR "W" < 2'-0"
   L3X3X1/4 FOR "W" < 4'-0"
   L4X4X1/4 FOR "W" < 6'-0"
2. FOR "W" > 6'-0" USE L OR W-BEAM. L SIZE OR DEPTH OF W-BEAM EQUAL TO SPAN DIMENSION IN INCHES. MINIMUM THICKNESS = 1/4"
3. FOR "W" > 10'-0" CONTACT ENGINEER OF RECORD FOR DETAIL.

TYP. ROOF OPN'G DETAIL 5-302

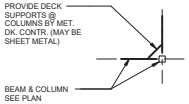
METAL DECK CONTRACTOR TO PROVIDE RIDGE AND VALLEY PLATES AS REQUIRED.



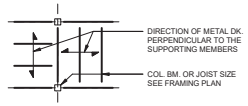
TYP. DET. @ DECK DIRECTION CHANGE BETWEEN JOIST SEATS



TYP. EDGE ANGLE DECK SUPPORT

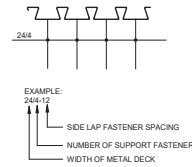


TYP. FLOOR DECK SUPPORT AT COLUMNS



DECK DIRECTION SYMBOL

TYPICAL METAL DECK DETAILS 5-304



NOTES:

1. USE 3/4"ø PUDDLE WELD @ SUPPORTS & 3/4"ø PUDDLE WELD @ 6" OC AT PERIMETER CLOSURE ANGLE AND #12 SCREWS @ 12" OC AT SIDE LAPS. FASTENER LAYOUT PATTERN AS SHOWN ABOVE.

TYPICAL FASTENER LAYOUT FOR 2" EPICORE MTL DECK 5-309

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Project number 1932

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TYPICAL DETAILS

S304

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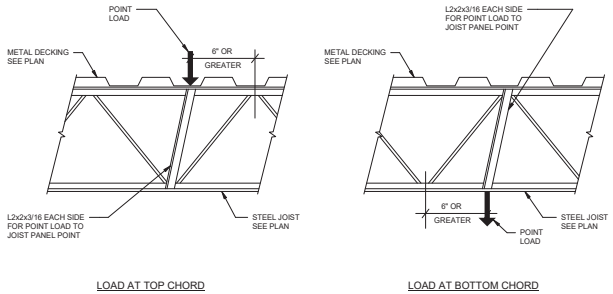
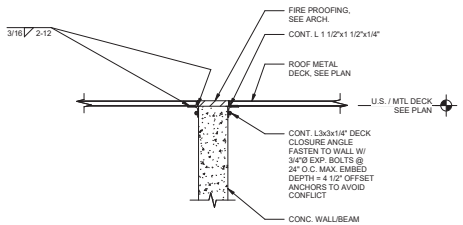


LOAD AT TOP CHORD

LOAD AT BOTTOM CHORD

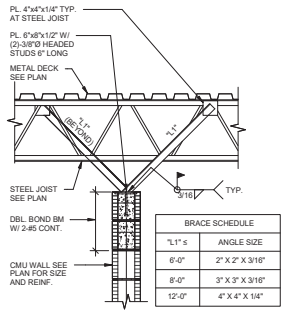
TYPICAL ADDITIONAL WEB REINFORCEMENT FOR CONCENTRATED LOAD (WHEN POINT LOAD IS GREATER THAN 40 POUNDS)

5-321



FIRE SEPERATION DETAIL

5-006

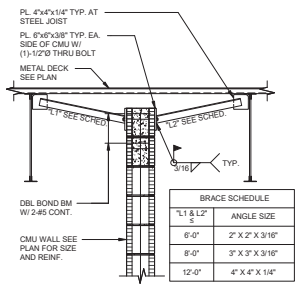


BRACE SCHEDULE	
"L1" ≤	ANGLE SIZE
6'-0"	2" X 2" X 3/16"
8'-0"	3" X 3" X 3/16"
12'-0"	4" X 4" X 1/4"

NOTE:
ALTERNATE DIRECTION OF L BRACE AT EACH JOIST.

TYPICAL INTERIOR WALL BRACE DETAIL

4-063

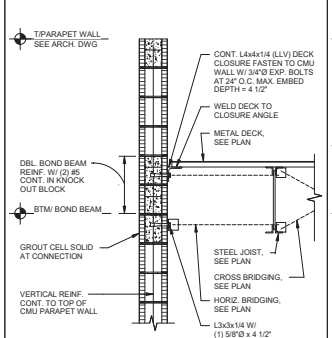


BRACE SCHEDULE	
"L1 & L2" ≤	ANGLE SIZE
6'-0"	2" X 2" X 3/16"
8'-0"	3" X 3" X 3/16"
12'-0"	4" X 4" X 1/4"

NOTE:
MAXIMUM SPACING OF WALL BRACING SHALL NOT EXCEED 36 TIMES THE WALL THICKNESS UNLESS NOTED OTHERWISE IN PLANS OR SECTIONS.

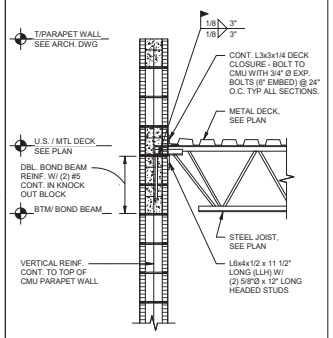
TYPICAL INTERIOR WALL BRACE DETAIL

4-061



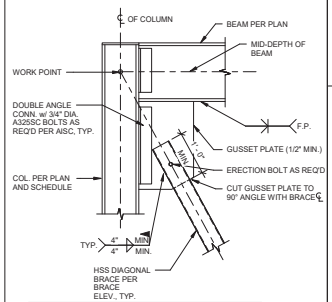
SECTION AT WALL PARALLEL TO JOIST

5-202



SECTION AT WALL SINGLE BEARING

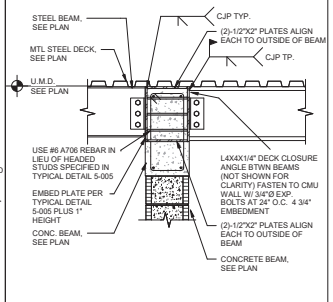
5-203



NOTE:
WELDS AND BOLTS OF CONN. ANGLES SHALL BE SIZED FOR THE SUM OF THE BEAM REACTION PLUS THE VERT. & HORIZ. COMPONENT OF THE DIAGONAL BRACE FORCE.

TYP. BRACE DETAIL T2

T2



MOMENT CONNECTION AT CONCRETE BEAM

5-601

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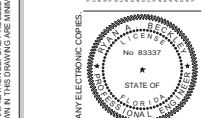

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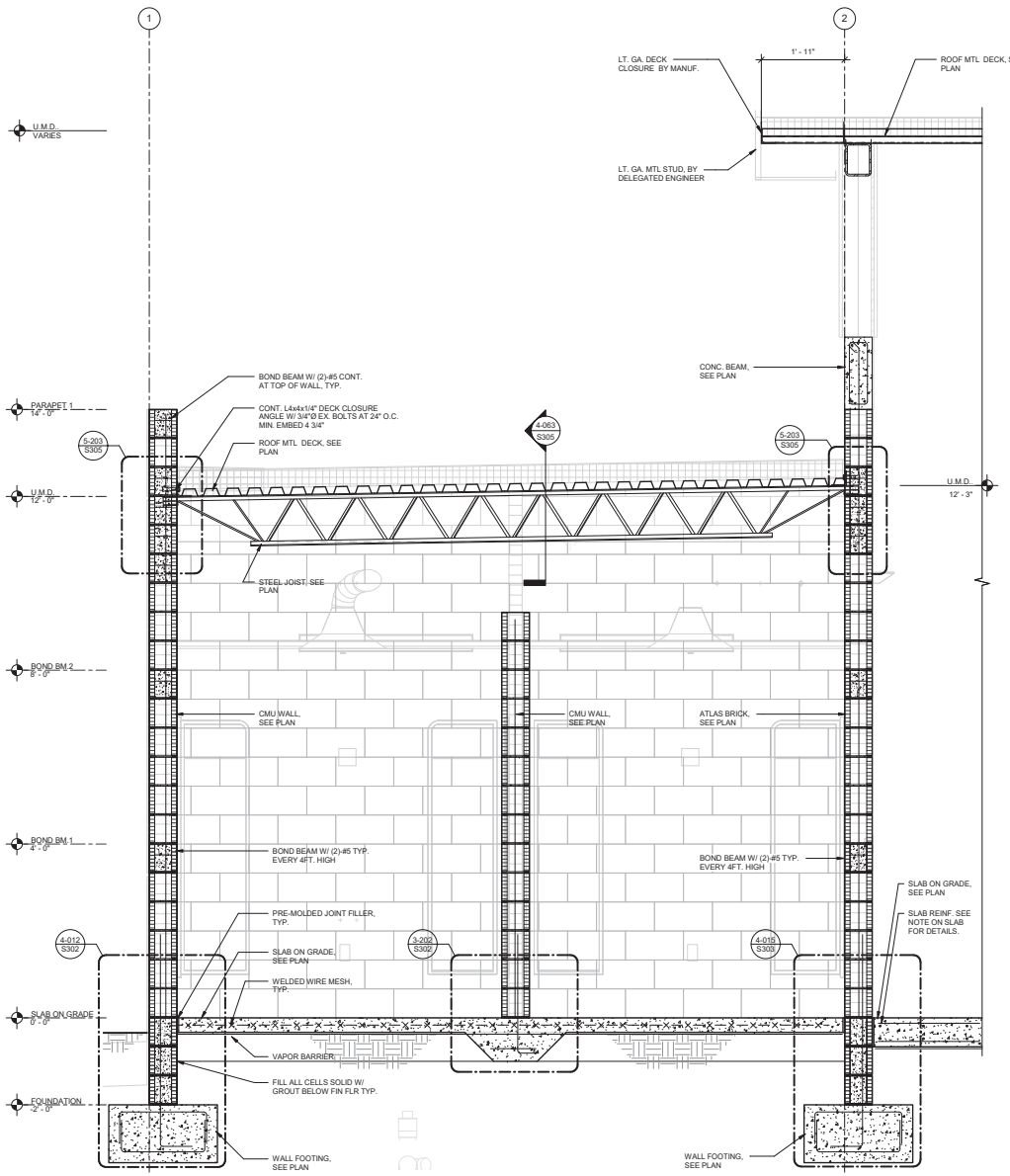
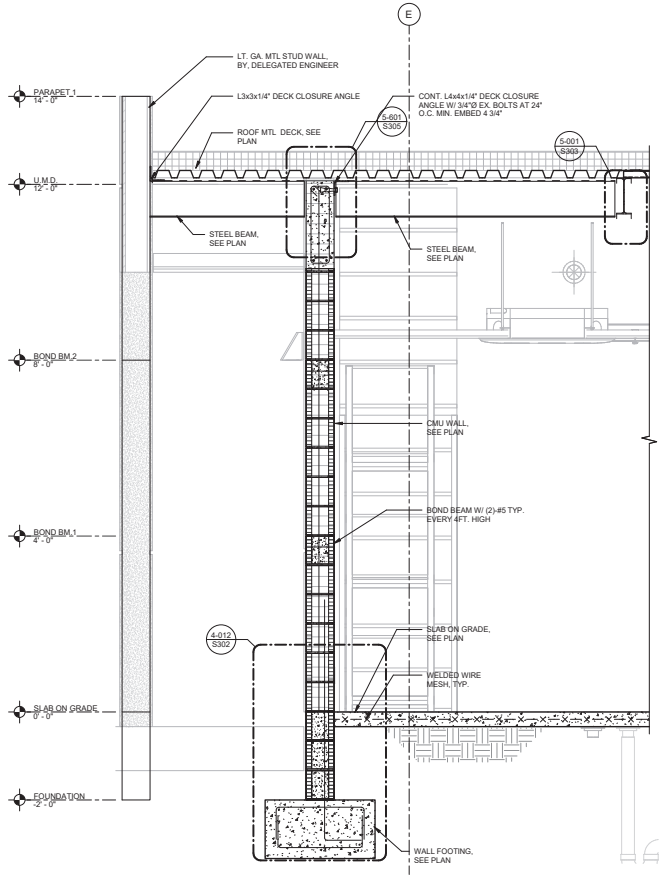
TYPICAL DETAILS

S305



S2 / S401 WALL SECTION
SCALE: 3/4" = 1'-0"



S1 / S401 WALL SECTION
SCALE: 3/4" = 1'-0"

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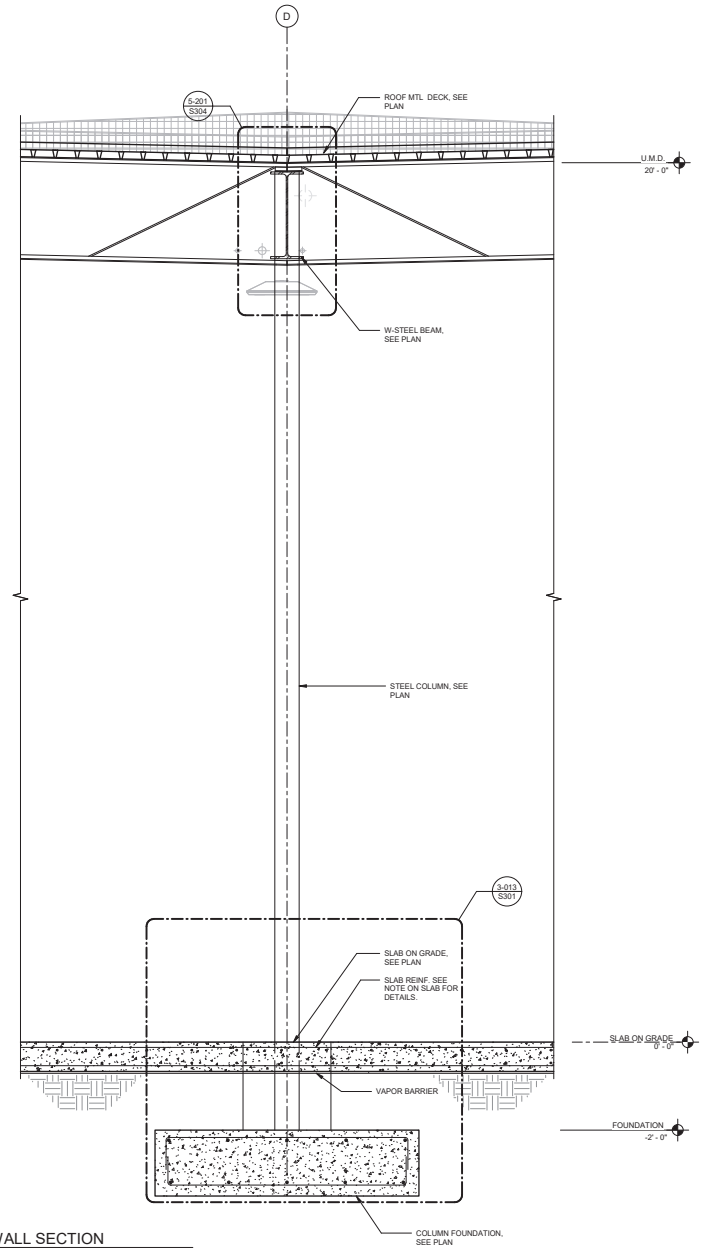
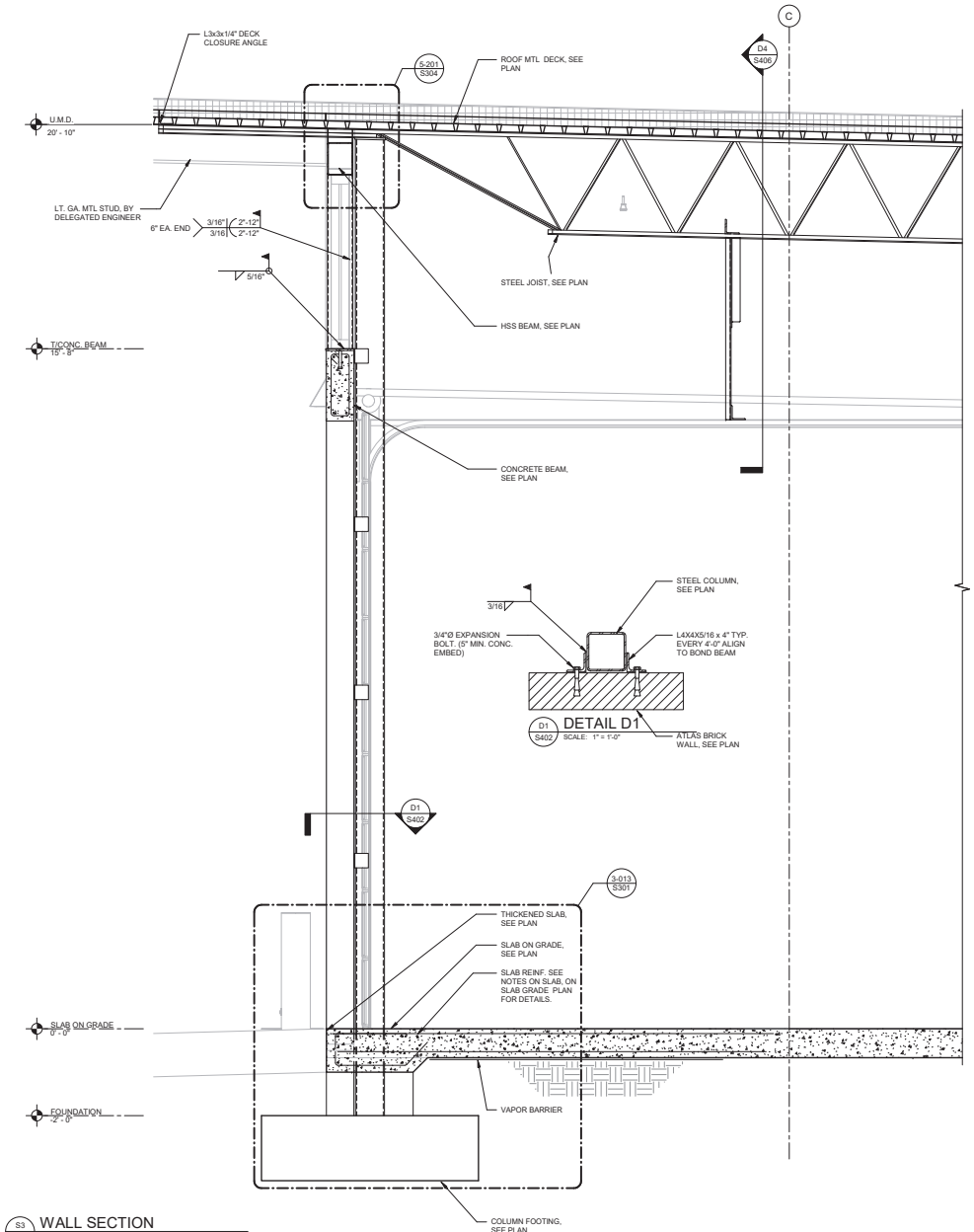
SECTIONS AND DETAILS

S401



S4 S402 WALL SECTION
SCALE: 3/4" = 1'-0"



S3 S402 WALL SECTION
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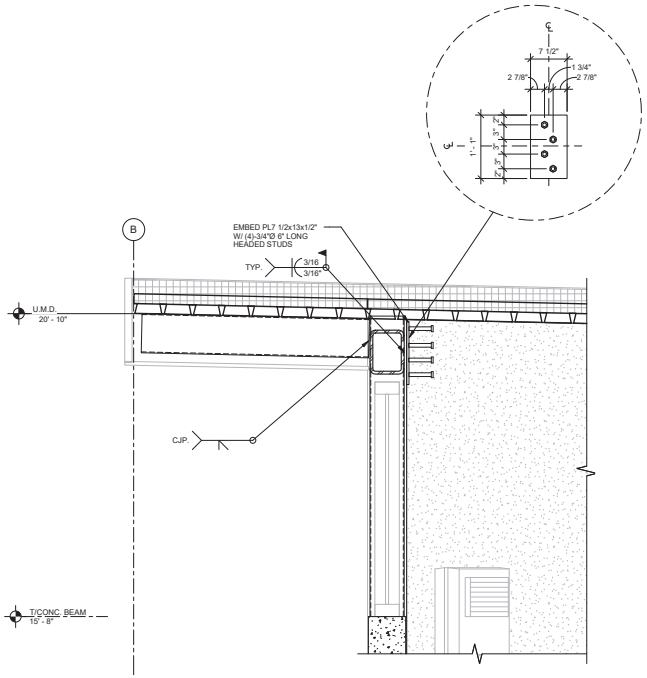
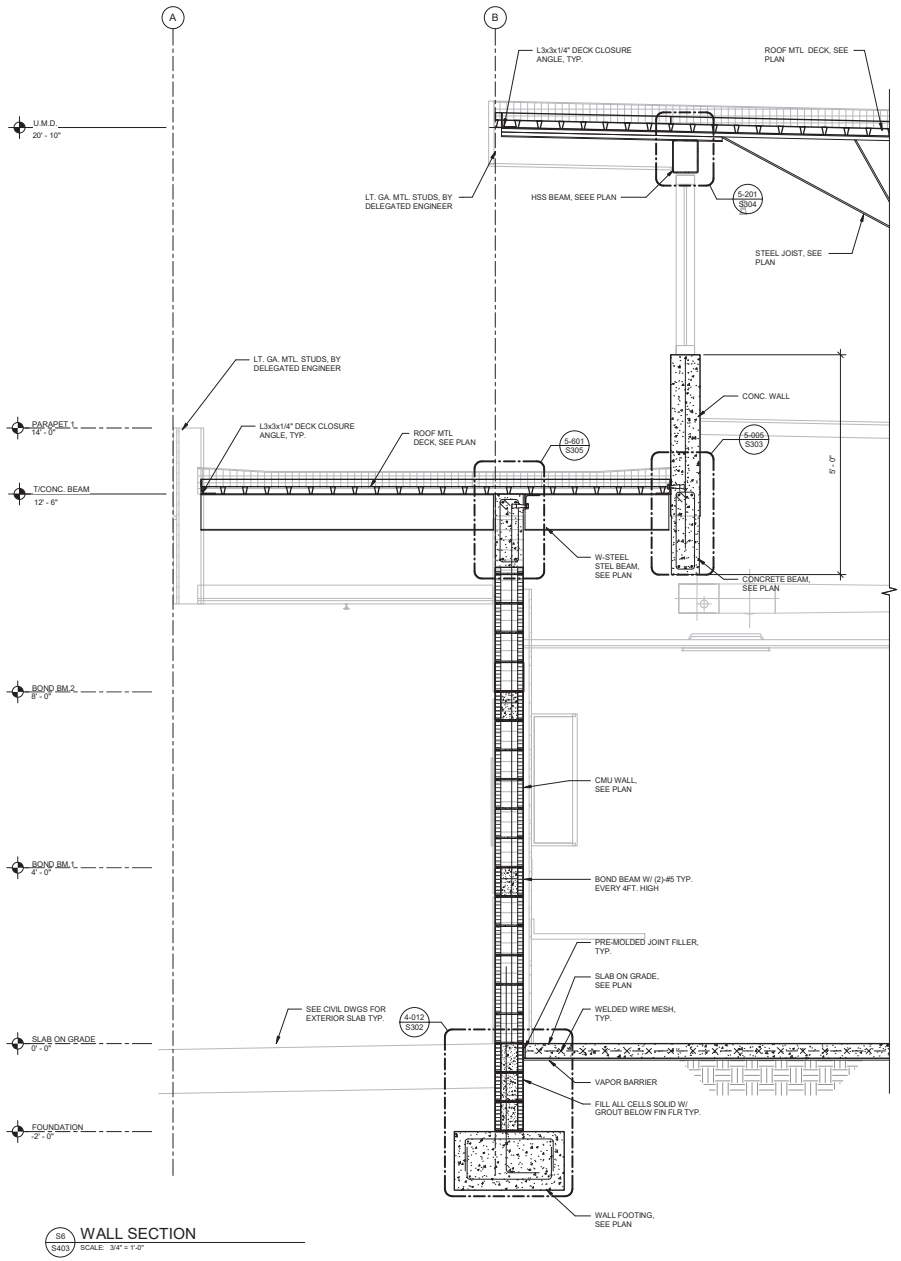
SECTIONS AND DETAILS

S402



D3 / S403 DETAIL D3
SCALE: 1" = 1'-0"



S6 / S403 WALL SECTION
SCALE: 3/4" = 1'-0"

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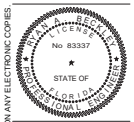

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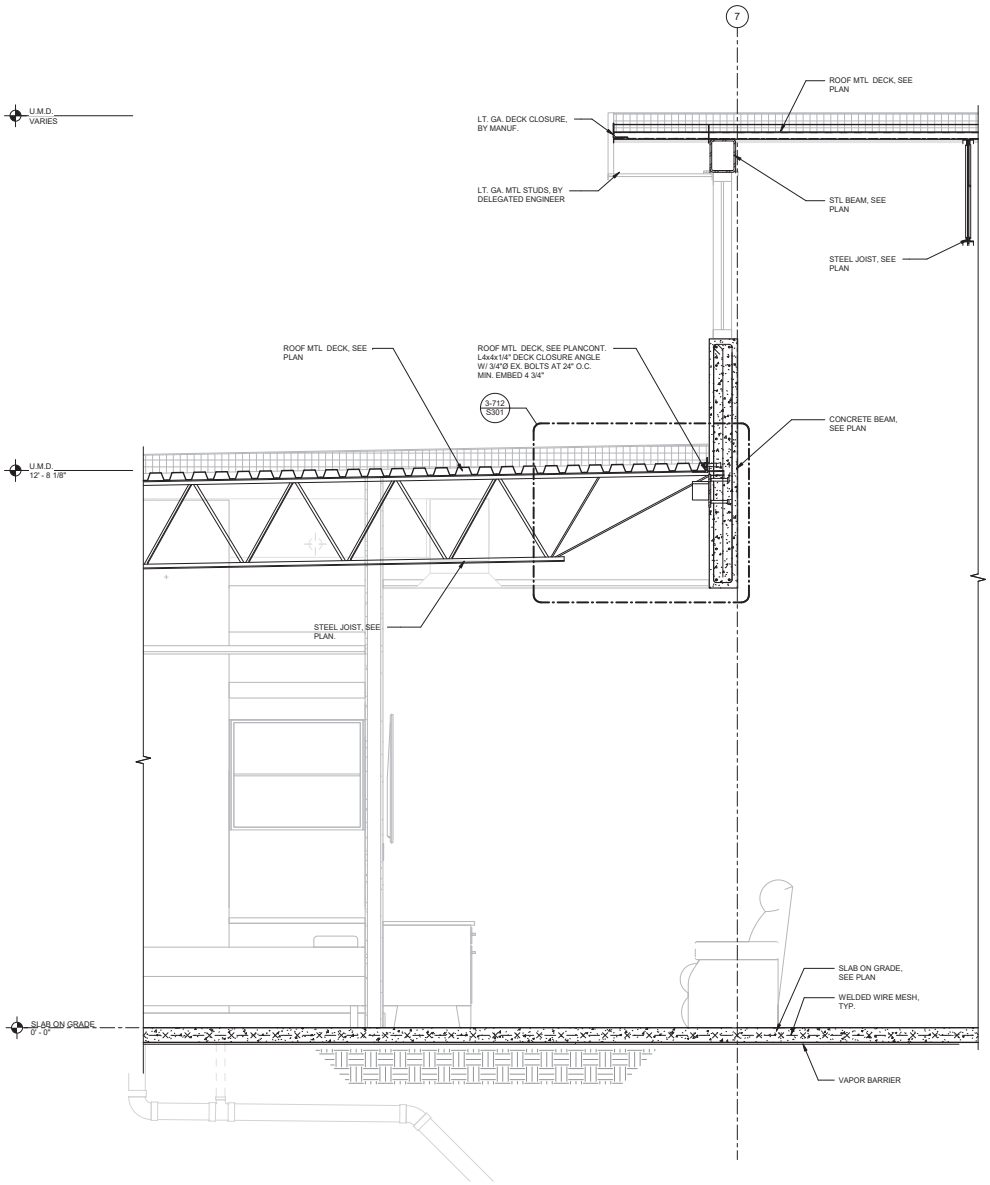
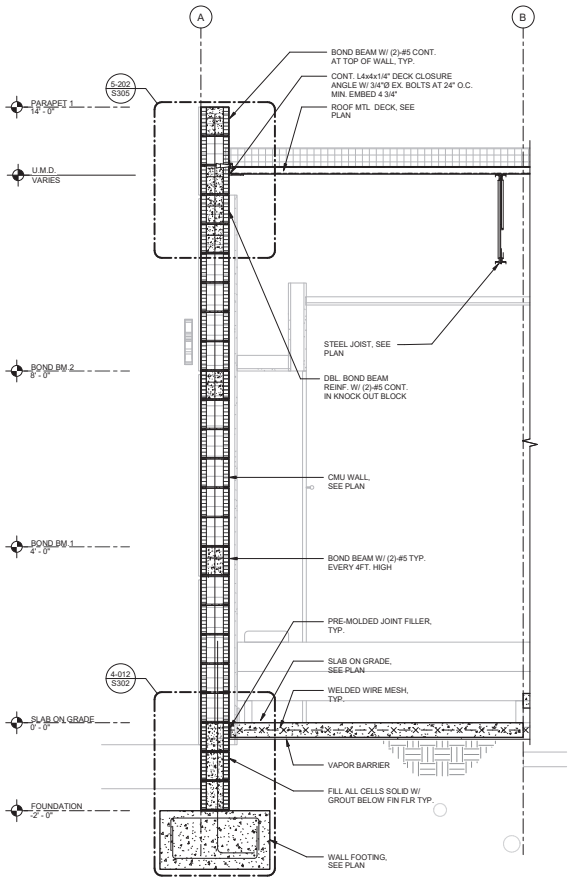
SECTIONS AND DETAILS

S403



S8 / S404 WALL SECTION
SCALE: 3/4" = 1'-0"



S7 / S404 WALL SECTION
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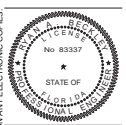

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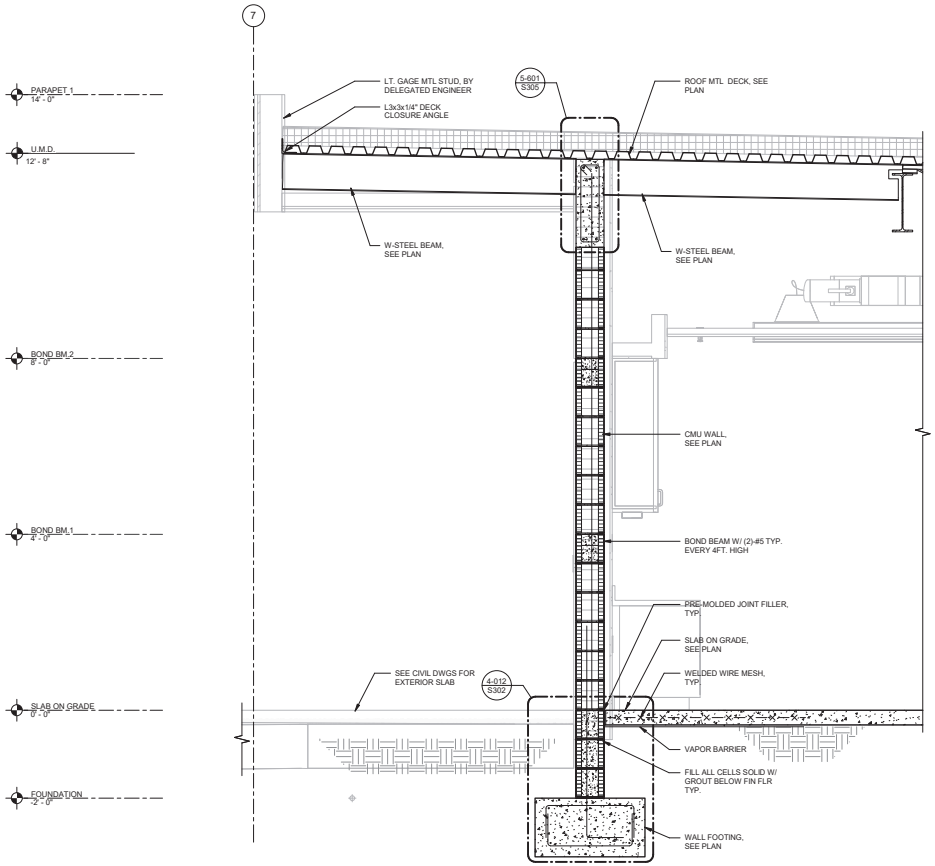
S404



S10 S405 WALL SECTION
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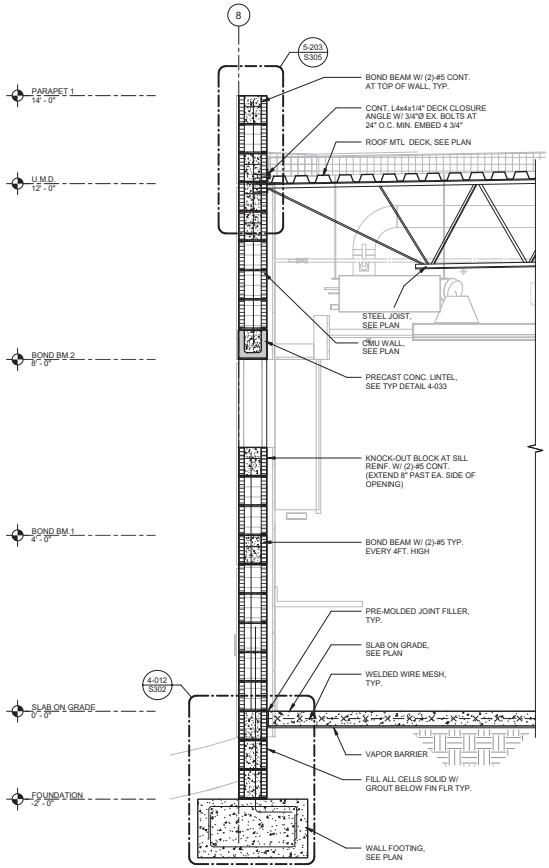

S9 S405 WALL SECTION
SCALE: 3/4" = 1'-0"

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SECTIONS AND DETAILS

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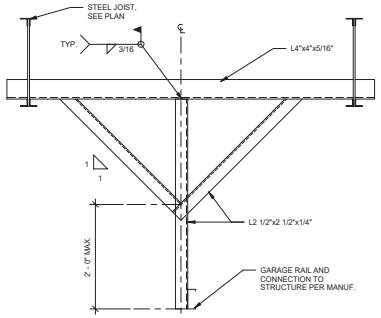

D4 S406 DETAIL D4
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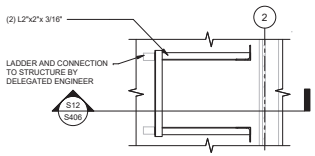

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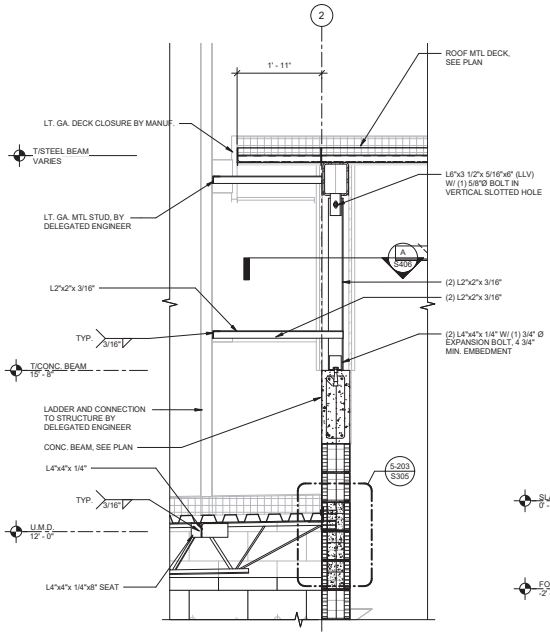

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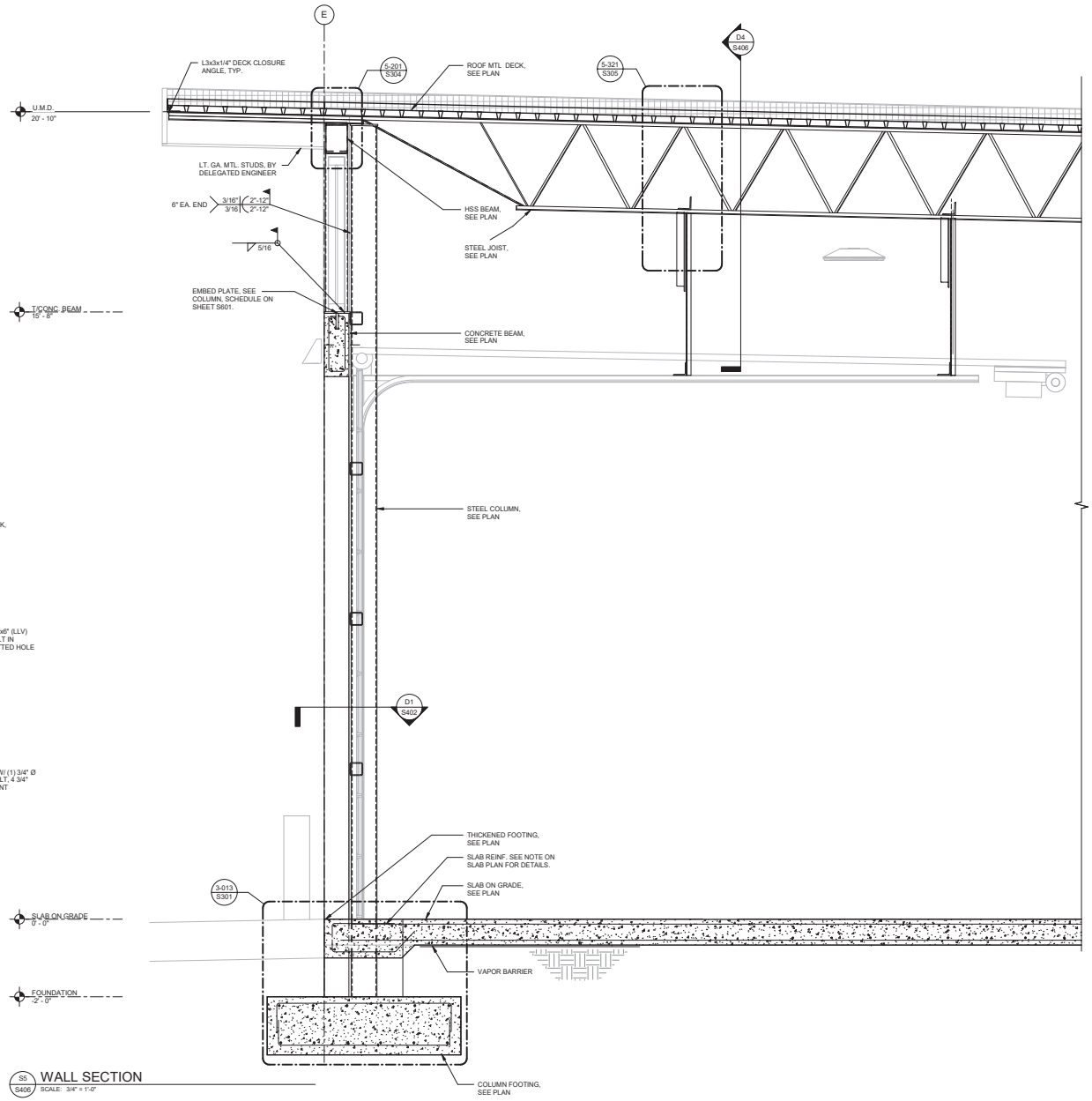

S5 S406 WALL SECTION
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SECTIONS AND DETAILS

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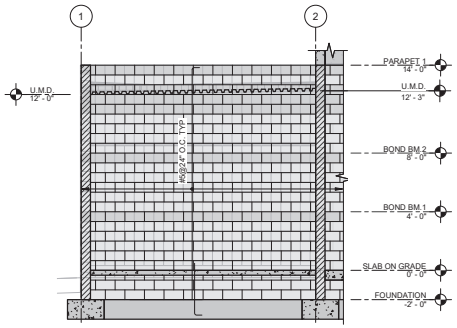
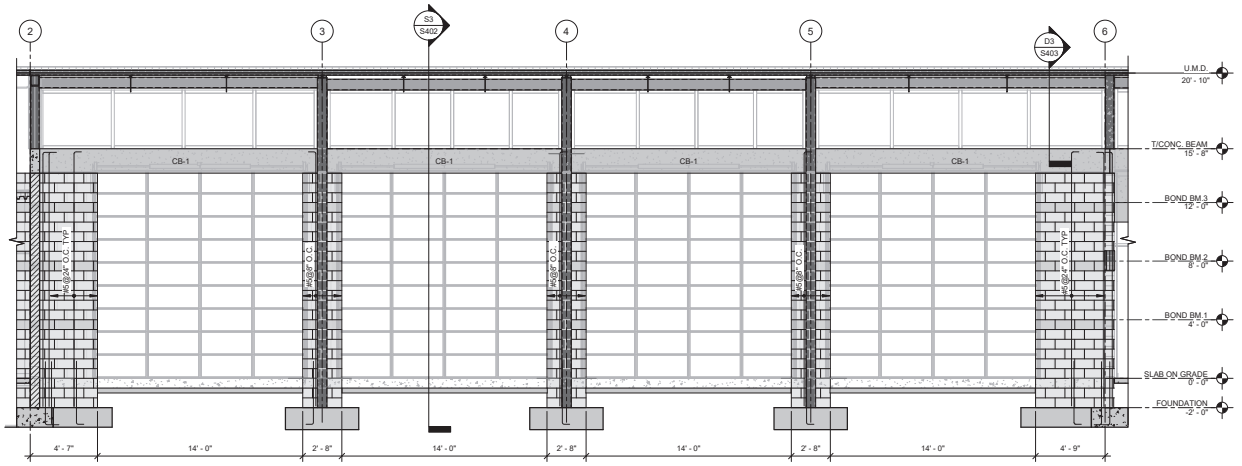


E1 / S501 WALL ELEVATION
SCALE: 1/4" = 1'-0"



E2 / S501 WALL ELEVATION
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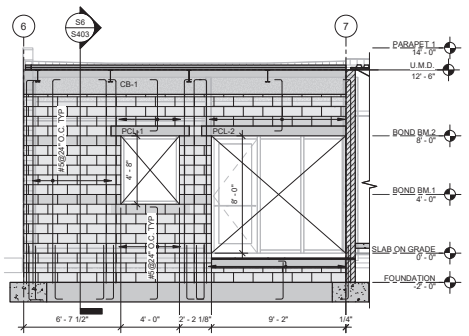

E3 / S501 WALL ELEVATION
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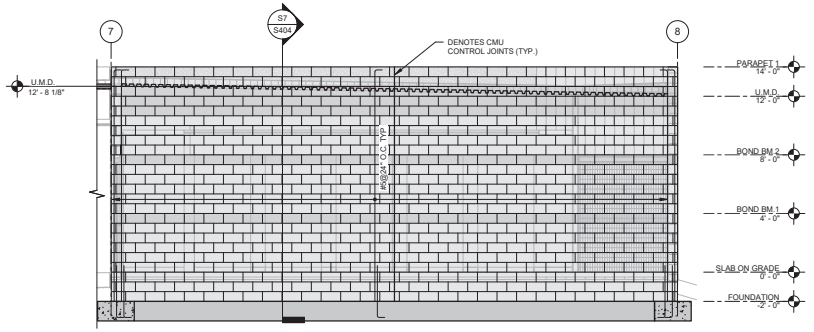
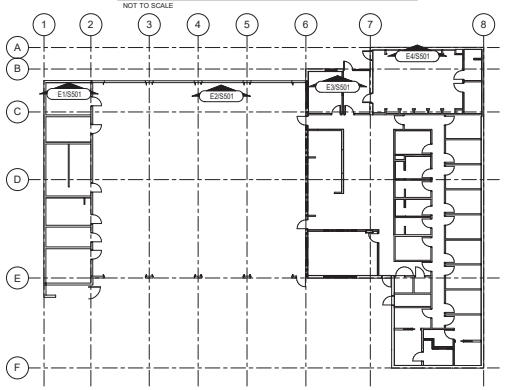


E4 / S501 WALL ELEVATION
SCALE: 1/4" = 1'-0"

WALL ELEVATION KEY - E1, E2, E3, E4
NOT TO SCALE



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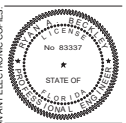

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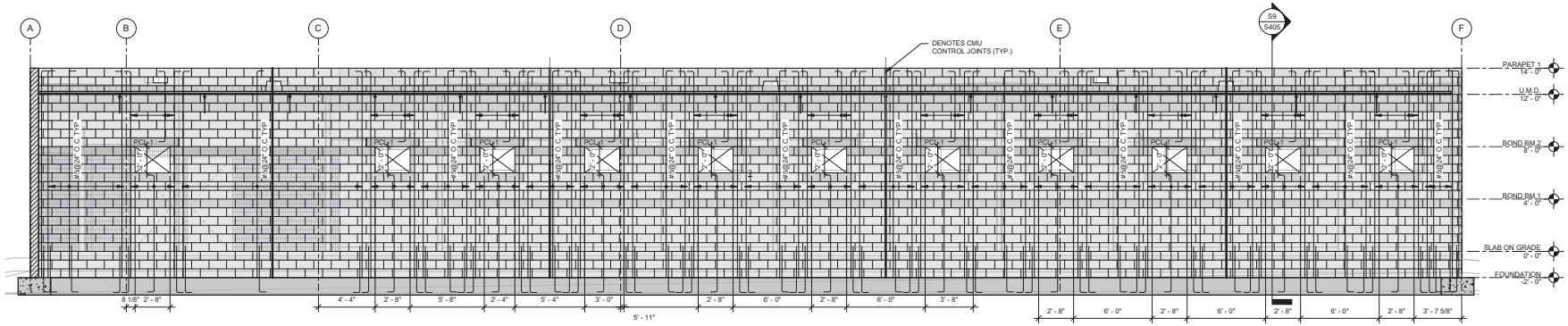
WALL ELEVATIONS

S501



E5 S502 WALL ELEVATION
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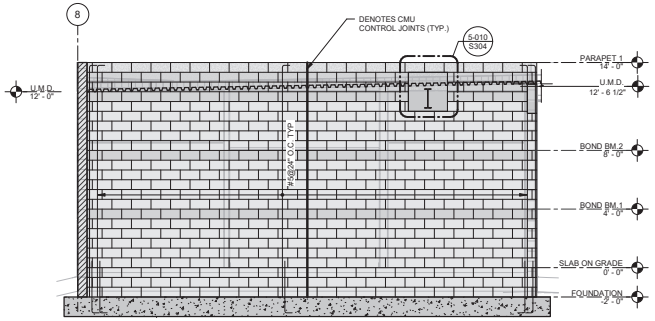

E6 S502 WALL ELEVATION
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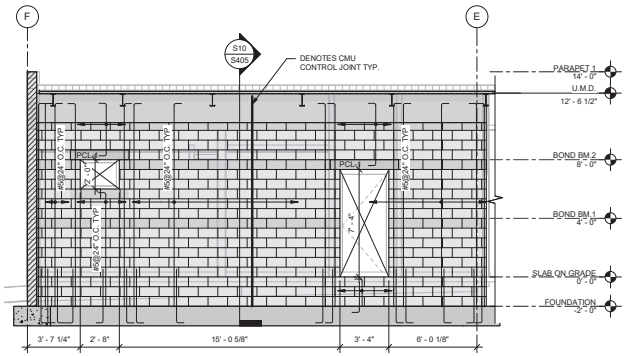
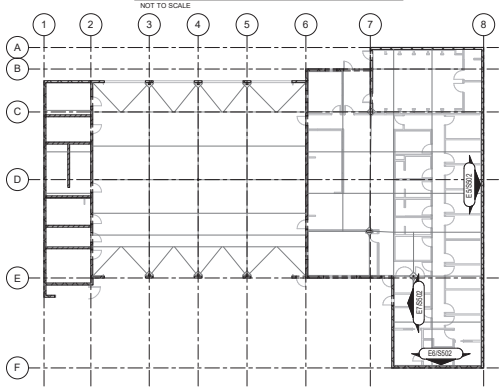


E7 S502 WALL ELEVATION
SCALE: 1/4" = 1'-0"

WALL ELEVATION KEY - E5, E6, E7

NOT TO SCALE



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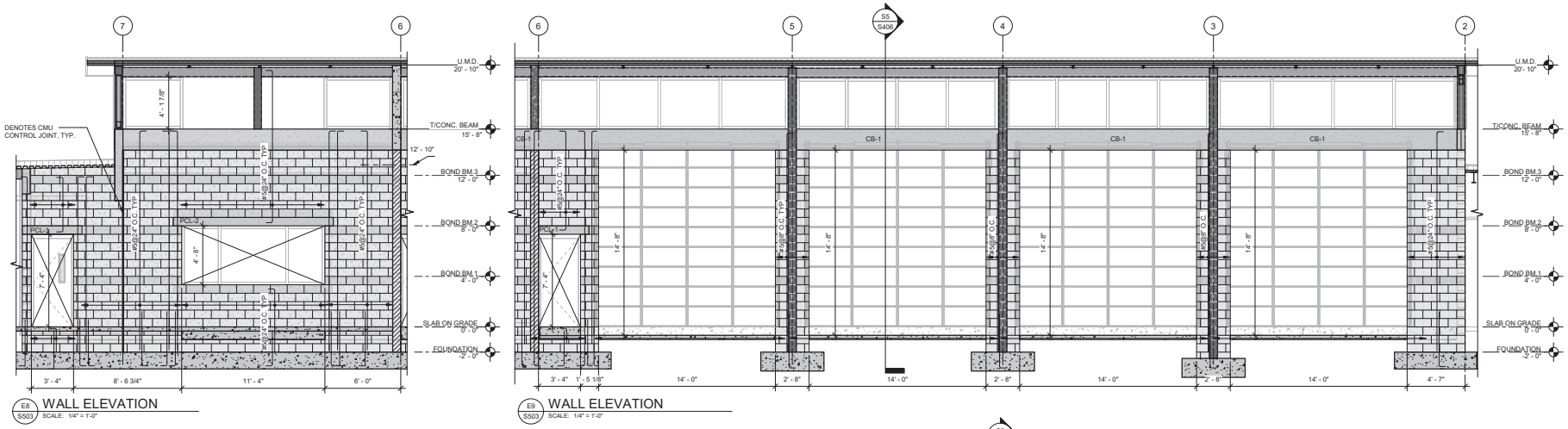
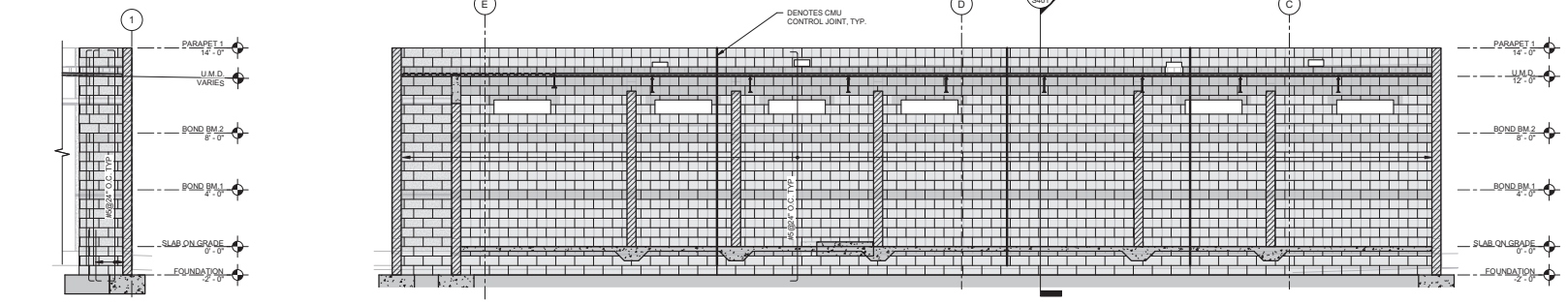
S502



E8/S503 WALL ELEVATION
SCALE: 1/4" = 1'-0"

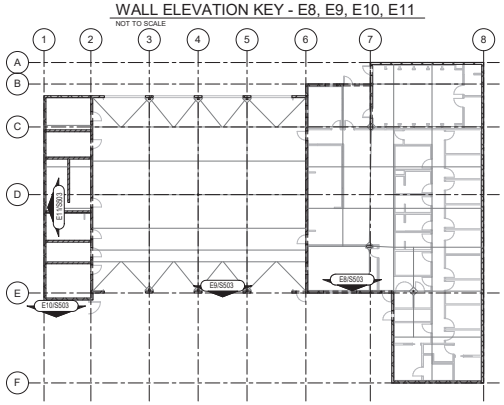
E9/S503 WALL ELEVATION
SCALE: 1/4" = 1'-0"



E10/S503 WALL ELEVATION
SCALE: 1/4" = 1'-0"

E11/S503 WALL ELEVATION
SCALE: 1/4" = 1'-0"

WALL ELEVATION KEY - E8, E9, E10, E11
NOT TO SCALE



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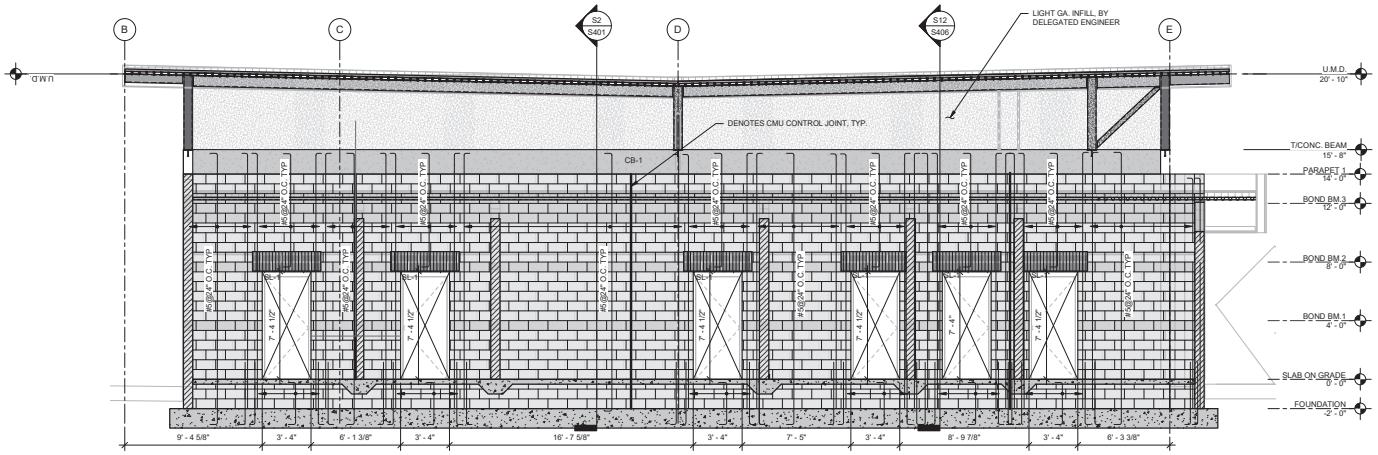
S503



E12 / S504 WALL ELEVATION
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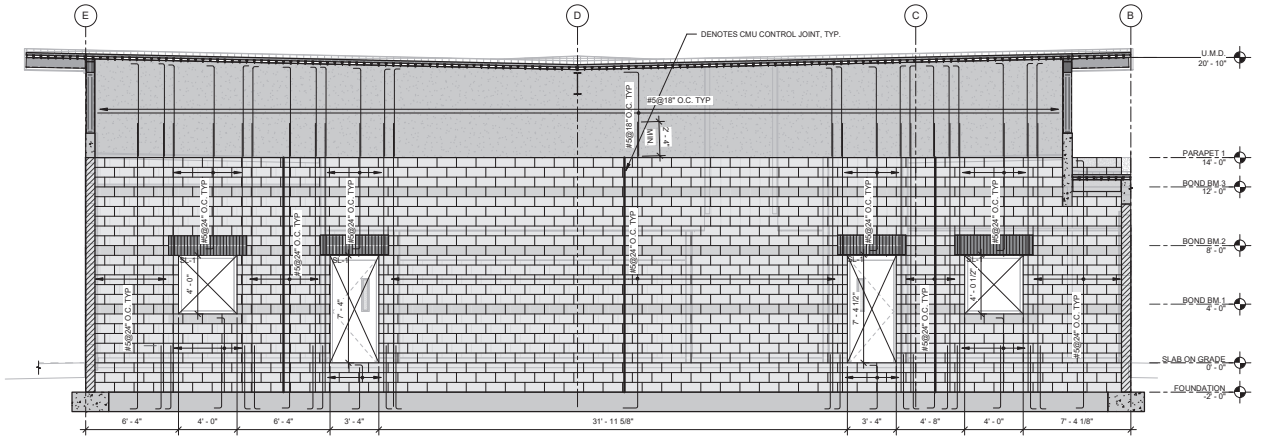

E14 / S504 WALL ELEVATION
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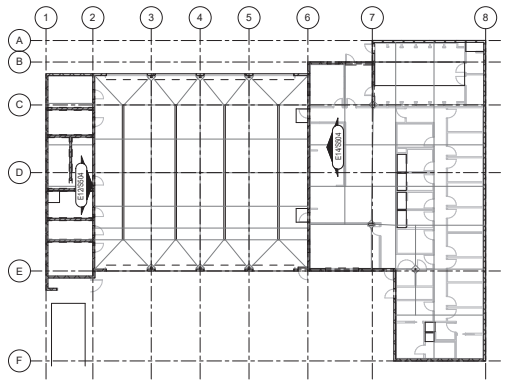
WALL ELEVATION KEY - E12, E14
NOT TO SCALE



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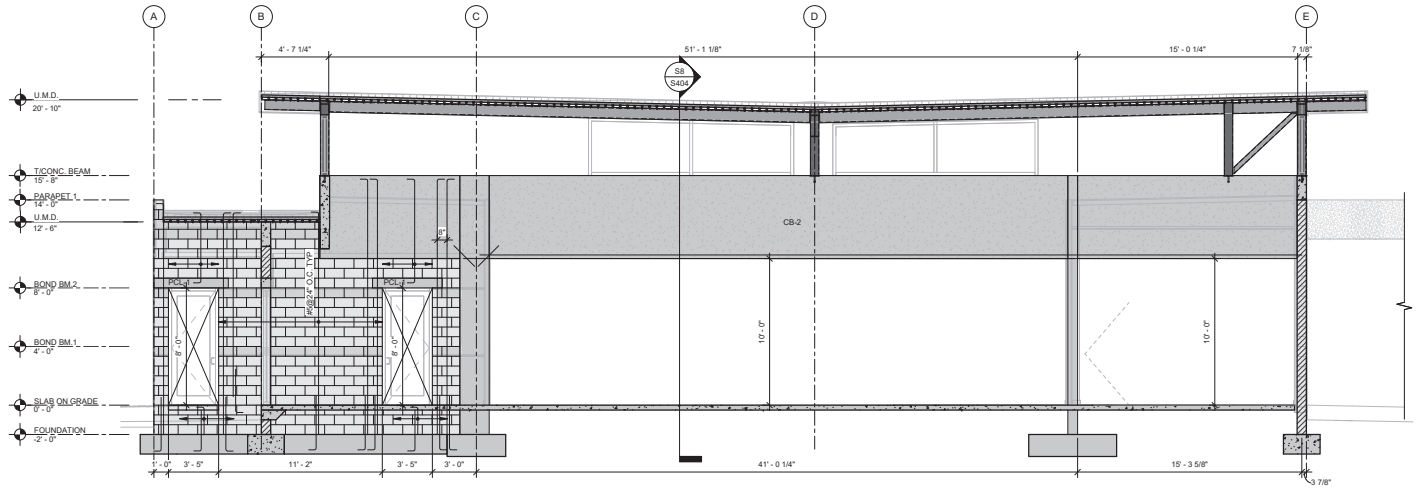
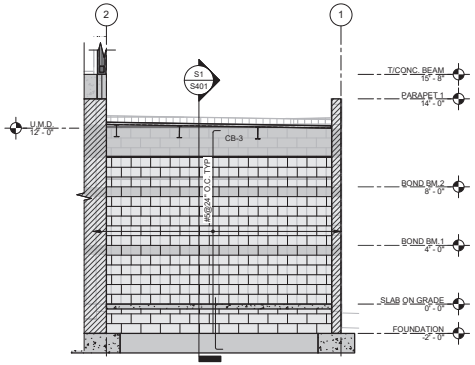
WALL ELEVATIONS

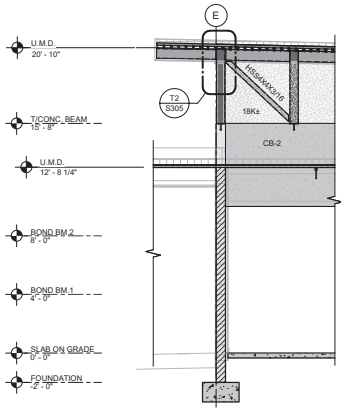
S504



E15 / S505 WALL ELEVATION
SCALE: 1/4" = 1'-0"

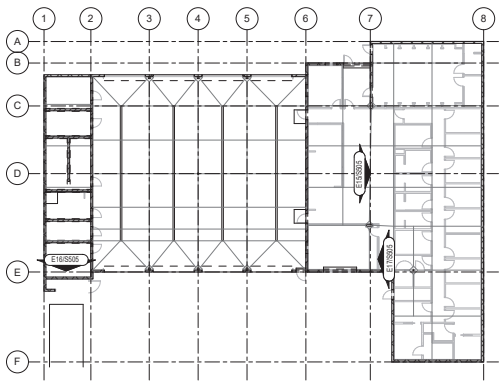


E16 / S505 WALL ELEVATION
SCALE: 1/4" = 1'-0"



E17 / S505 BRACE FRAME ELEVATION 17
SCALE: 1/4" = 1'-0"

WALL ELEVATION KEY - E15, E16
SCALE: 1" = 20'-0"



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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

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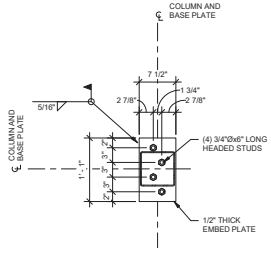
WALL ELEVATIONS

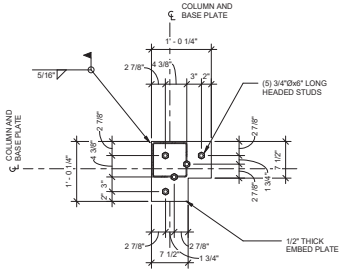
S505

HIGH ROOF FRAMING PLAN																												HIGH ROOF FRAMING PLAN
20' - 5" T/CONC. BEAM	HSS7X7X3/16.	HSS7X7X3/16.		HSS7X7X3/16.		HSS7X7X3/16.		HSS7X7X3/16.	HSS7X7X3/16.	HSS7X7X3/16.	HSS7X7X3/16.			HSS7X7X3/16.	HSS7X7X3/16.	HSS7X7X3/16.	HSS7X7X3/16.		HSS7X7X3/16.		HSS7X7X3/16.		HSS7X7X3/16.	HSS7X7X3/16.	HSS7X7X3/16.		HSS7X7X3/16.	20' - 5" T/CONC. BEAM
15' - 8" FOUNDATION			HSS8X8X3/8		HSS8X8X3/8		HSS8X8X3/8					HSS6.6X6X0.432					HSS8X8X3/8		HSS8X8X3/8		HSS8X8X3/8			HSS3.1/2X3.1/2X3/16			HSS7X7X3/16.	15' - 8" FOUNDATION
-2' - 0"	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S12	S14	S15	S16	S17	S18	S19	S20	S21	S22	S23	S24	S25	S26	S27	S28	-2' - 0"
Column Locations	B(-4' - 3 7/8")-2(0' - 3 7/8")	B(-4' - 3 7/8")-3	B(-5' - 0 1/8")-3	B(-4' - 3 7/8")-4	B(-5' - 0 1/8")-4	B(-4' - 3 7/8")-5	B(-5' - 0 1/8")-5	B(-4' - 3 7/8")-6(0' - 3 7/8")	B(-4' - 3 7/8")-7(0' - 4")	B(-4' - 3 7/8")-7(-10' - 8 1/8")	D-2(0' - 3 7/8")	D-4	D-7(0' - 4")	E(0' - 3 7/8")-2(0' - 3 7/8")	E(-5' - 3 7/8")-2(0' - 3 7/8")	E(0' - 3 7/8")-3	E(1' - 0 3/8")-3	E(0' - 3 7/8")-4	E(1' - 0 3/8")-4	E(0' - 3 7/8")-5	E(1' - 0 3/8")-5	E(0' - 3 7/8")-6(0' - 3 7/8")	E(0' - 3 7/8")-7(0' - 4")	E(0' - 7 7/8")-7(-10' - 8 1/8")	E(0' - 7 1/8")-7(14' - 8 3/4")	E(5' - 3 7/8")-7(0' - 4")	
BASE-PLATE	BP4	BP5	BP1	BP5	BP1	BP5	BP1	BP5	BP4	BP5	BP5	BP2	BP5	BP4	BP5	BP5	BP1	BP5	BP1	BP5	BP1	BP5	BP4	BP5	BP3	BP5		

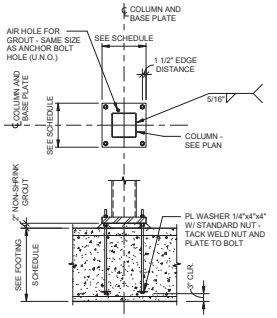
STEEL COLUMN SCHEDULE
SCALE: 1/8" = 1'-0"



BP5 / S601 BASE PLATE 5
SCALE: 1" = 1'-0"



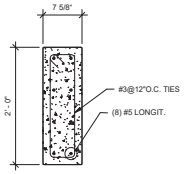
BP4 / S601 BASE PLATE 4
SCALE: 1" = 1'-0"



BP- / S601 BASE PLATE 1-3
SCALE: 1/2" = 1'-0"

LOW ROOF FRAMING PLAN			LOW ROOF FRAMING PLAN
12' - 0" FOUNDATION	8 x 24	8 x 24	12' - 0" FOUNDATION
-2' - 0"	C1	C2	-2' - 0"
Column Locations	C-7	E(15' - 11 3/8")-7	

CONCRETE COLUMN SCHEDULE
SCALE: 1/8" = 1'-0"



8x24 CONCRETE COLUMN
SCALE: 1" = 1'-0"

BASE PLATE SCHEDULE

BASE PLATE	SIZE	ANCHOR BOLTS	REMARKS
BP1	3/4"x14"x14"	(4) 3/4"Ø F1554 (A36)	FLUSH COLUMN TO ONE END OF BASE PLATE
BP2	3/4"x12"x12"	(4) 3/4"Ø F1554 (A36)	
BP3	3/4"x10"x10"	(4) 3/4"Ø F1554 (A36)	
BP4	1/2"x12 1/4"x12 1/4"	(5) 3/4"Ø x6" LONG HEADED STUDS	
BP5	1/2"x7 1/2"x13"	(4) 3/4"Ø x6" LONG HEADED STUDS	

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

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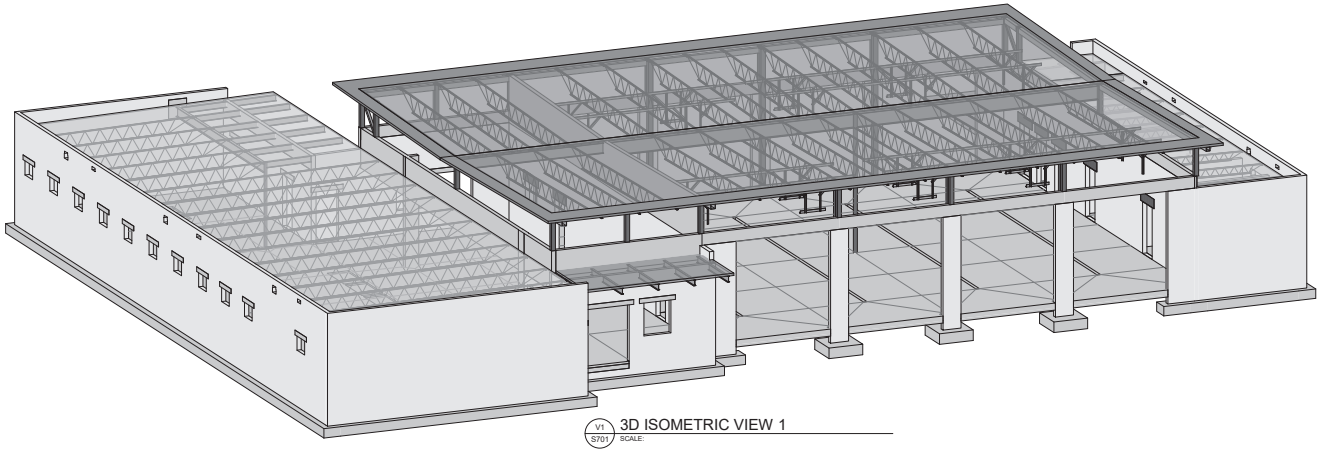
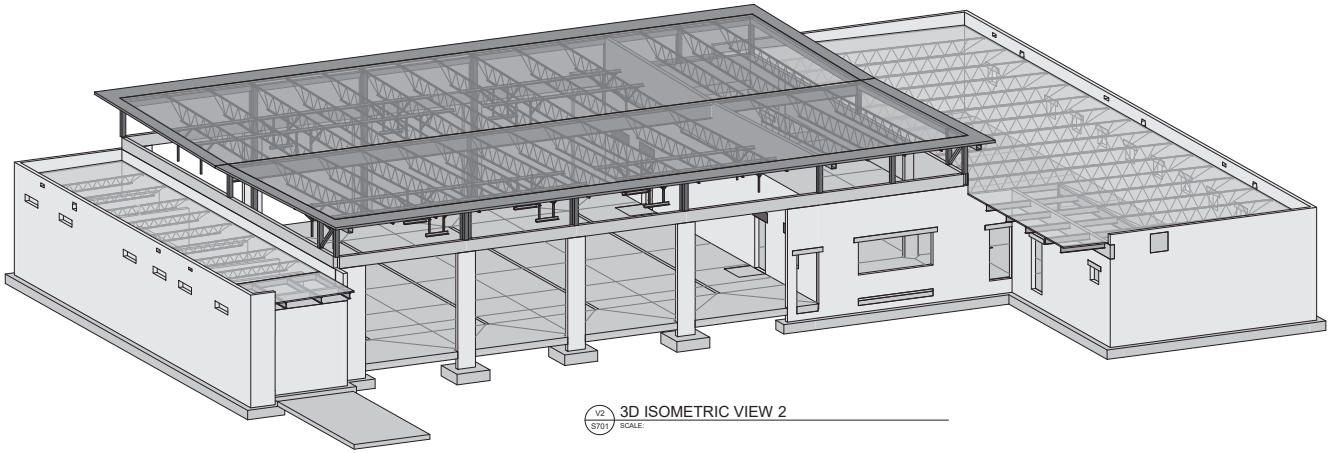
SCHEDULES

S601



V1 / S701 3D ISOMETRIC VIEW 1
SCALE:



V2 / S701 3D ISOMETRIC VIEW 2
SCALE:

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REGISTERED ARCHITECT
No. 83337
STATE OF FLORIDA

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3D ISOMETRIC VIEWS

S701

HVAC ABBREVIATIONS

SYMBOL	DESCRIPTION
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
AP	ACCESS PANEL
BOP	BOTTOM OF PIPE
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CT	COOLING TOWER
CU	CONDENSING UNIT
DDC	DIRECT DIGITAL CONTROLS
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
FCU	FAN COIL UNIT
FF	FINAL FILTERS
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUs PER HOUR
MCA	MINIMUM CIRCUIT AMPS
MOCP	MAXIMUM OVER CURRENT PROTECTION
MOD	MOTOR OPERATED CONTROL DAMPER (MOD)
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OAL	OUTSIDE LOUVER
PRV	PRESSURE REDUCING VALVE
PRS	PRESSURE REDUCING STATION
PSI	POUNDS PER SQUARE INCH
PSIG	PSI GAUGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
RA	RETURN AIR
RHC	REHEAT COIL
RPM	REVOLUTIONS PER MINUTE
SA	SUPPLY AIR
SP	STATIC PRESSURE
TEMP	TEMPERATURE
TSP	TOTAL STATIC PRESSURE
UNO	UNLESS NOTED OTHERWISE
V / PH	VOLTS / PHASE
VAV	VARIABLE AIR VOLUMN
VFD	VARIABLE FREQUENCY DRIVE

HVAC PIPING SYMBOL LEGEND

SYMBOL	DESCRIPTION
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLER WATER RETURN
CD	CONDENSATE
CR	CONDENSATE RETURN
PC	PUMPED CONDENSATE
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
	FLOW DIRECTION
	GATE VALVE
	BALL VALVE
	CALIBRATING BALANCING VALVE
	BUTTERFLY VALVE
	GAS COCK
	UNION
	STRAINER
	CONTROL VALVE
	SOLENOID VALVE
	PSI REG.
	CHECK VALVE
	FLOW SWITCH
	FLEX CONNECTION
	O.S. & Y GATE VALVE
	THREE-WAY CONTROL VALVE
	THERMOMETER
EQUIP	P-TRAP
	TWO-WAY CHECK VALVE
MV	MANUAL VENT
	PRESSURE GAUGE
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, OUTLET DOWN
	TEE, OUTLET UP

EQUIPMENT

SYMBOL	DESCRIPTION
E-1	EXHAUST DUCT UP TO FAN ABOVE
E-1	EXHAUST FAN ON ROOF AND DUCT DROP TO BELOW
E-1	IN-LINE CENTRIFUGAL FAN
EQUIP	P-TRAP

CONTROLS

SYMBOL	DESCRIPTION
T	THERMOSTAT / TEMPERATURE SENSOR
H	HUMIDISTAT / HUMIDITY SENSOR
M	MOTORIZED CONTROL DAMPER
TS	TEMPERATURE SENSOR
P	PRESSURE SENSOR
CO2	CO2 SENSOR

AIR DISTRIBUTION

SYMBOL	DESCRIPTION
QTY / XA(FLOW) / TAG / CFM	AIR DISTRIBUTION DEVICE: SUPPLY (4-WAY BLOW UNLESS INDICATED BY FLOW ARROW'S)
QTY / XA(FLOW) / TAG / CFM	AIR DISTRIBUTION DEVICE: RETURN
QTY / XA(FLOW) / TAG / CFM	AIR DISTRIBUTION DEVICE: EXHAUST
R / S	AIR TERMINAL DEVICE: SIDEWALL MOUNTED RETURN OR SUPPLY
DG	DOOR GRILLE: SEE ARCHITECTURAL DRAWINGS
UC	UNDERCUT DOOR: SEE ARCHITECTURAL DRAWINGS

LIFE SAFETY

SYMBOL	DESCRIPTION
FD	FIRE DAMPER WITH ACCESS DOOR PANEL
SD	SMOKE DAMPER WITH ACCESS DOOR PANEL
FSD	FIRE AND SMOKE DAMPER WITH ACCESS DOOR PANEL
	EXISTING FIRE DAMPER TO REMAIN WITH ACCESS DOOR PANEL, UNLESS OTHERWISE NOTED
	EXISTING FIRE AND SMOKE DAMPER TO REMAIN WITH ACCESS PANEL, UNLESS OTHERWISE NOTED
	DUCT SMOKE DETECTOR

DUCTWORK

SYMBOL	DESCRIPTION
24"x12"	NEW DUCTWORK, FIRST DIMENSION IS SIDE SHOWN PROVIDE EXTERNALLY INSULATED SHEET-METAL DUCT
DOWN / UP	DUCT ELBOW POSITIVE PRESSURE (SUPPLY)
DOWN / UP	DUCT ELBOW NEGATIVE PRESSURE (EXHAUST)
DOWN / UP	DUCT ELBOW NEGATIVE PRESSURE (RETURN)
UP / DN	CHANGE OF ELEVATION
	FLEXIBLE DUCT
	TRANSITION, CONCENTRIC
	TRANSITION, ECCENTRIC
10X8 / 8"Ø	TRANSITION, SQUARE TO ROUND
	SQUARE THROAT ELBOW WITH TURNING VANES
	RADIUS ELBOW
	RECTANGULAR / ROUND BRANCH TAKE-OFF OR ROUND / ROUND BRANCH TAKE-OFF
24"x12"	RECTANGULAR DUCTWORK
24"/12"	FLAT OVAL DUCTWORK
8"ø	ROUND DUCTWORK

DUCT ACCESSORIES

SYMBOL	DESCRIPTION
SA-1	SOUND ATTENUATOR
M	MOTOR OPERATED CONTROL DAMPER (MOD)
FM	AIR FLOW MEASURING STATION
	MANUAL BALANCING DAMPER
	ACCESS DOORS, VERTICAL OR HORIZONTAL
	FLEXIBLE CONNECTION
AF	CFM SENSOR
BD	BACKDRAFT DAMPER

GENERAL NOTES

1. SCOPE:
WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE AND PROPERLY FUNCTIONING MECHANICAL INSTALLATION IN ACCORDANCE WITH ALL APPLICABLE CODES AND CONTRACT DRAWINGS AND SPECIFICATIONS. WORK SHALL INCLUDE ALL WORK NORMALLY SPECIFIED IN DIVISION 23.

PAY FOR ALL REQUIRED LICENSES, FEES, INSPECTIONS AND PERMITS.

2. CODES:
INSTALL ALL WORK IN ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE REGULATIONS AND GOVERNING CODES, INCLUDING THE REGULATIONS OF THE UTILITY COMPANIES SERVING THE PROJECT.

WHERE A CONFLICT IN CODE REQUIREMENTS OCCURS THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

3. STANDARDS:
ALL EQUIPMENT AND DEVICES SHALL BEAR U.L. LABEL, THE LABEL OF AN INDUSTRY RECOGNIZED APPROVED TESTING AGENCY OR A.G.A. CERTIFICATION FOR SAID ITEM OF EQUIPMENT OR DEVICE.

ALL ELECTRICAL DEVICES MUST BE U.L. APPROVED.

4. DRAWINGS:
DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT AND EXTENT OF WORK. EXACT LOCATIONS AND ARRANGEMENT OF MATERIALS AND EQUIPMENT SHALL BE DETERMINED, WITH THE ACCEPTANCE OF THE ARCHITECT / ENGINEER, AS WORK PROGRESSES TO CONFORM IN THE BEST POSSIBLE MANNER WITH THE SURROUNDINGS AND WITH THE ADJOINING WORK OF OTHER TRADES. WHERE LOCATIONS OF EQUIPMENT, DEVICES OR FIXTURES ARE CONTROLLED BY ARCHITECTURAL FEATURES, ESTABLISH SUCH LOCATIONS BY REFERRING TO DIMENSIONS ON ARCHITECTURAL DRAWINGS AND NOT BY SCALING DRAWINGS.

5. DISCREPANCIES:
IN CASE OF DIFFERENCES BETWEEN DRAWINGS AND SPECIFICATIONS OR WHERE DRAWINGS AND SPECIFICATIONS ARE NOT CLEAR OR DEFINITE, THE SUBJECT SHALL BE REFERRED TO ARCHITECT / ENGINEER FOR CLARIFICATION AND INSTRUCTIONS.

6. ELECTRICAL PROVISIONS:
WORK INCLUDES VARIOUS ELECTRICAL REQUIREMENTS (A) WHICH INCORPORATE SPECIFIC ELECTRICAL FEATURES AND COMPONENTS WHICH ARE REQUIRED TO BE PHYSICALLY INTEGRAL WITH MECHANICAL EQUIPMENT, OR (B) WHICH REQUIRE NECESSARY ELECTRICAL INTERCONNECTING COMPONENTS FOR THE MECHANICAL SYSTEMS.

DEFINITIONS: DEFINITIONS FOR THE PURPOSE OF MECHANICAL / ELECTRICAL CONTROL AND POWER COORDINATION ARE AS GIVEN BELOW. ANY ITEMS WHICH DO NOT FALL WITHIN THE SCOPE OF THIS PARAGRAPH SHALL BE COORDINATED AS INDIVIDUALLY SPECIFIED.

'FURNISH' MEANS TO PROCURE AN ITEM AND TO DELIVER IT TO THE PROJECT FOR INSTALLATION.

'INSTALL' MEANS TO DETERMINE (IN COORDINATION WITH OTHERS AS NECESSARY) THE APPROPRIATE INTENDED LOCATION OF AN ITEM AND TO SET AND CONNECT IT IN PLACE.

'PROVIDE' MEANS TO BOTH FURNISH AND INSTALL.

7. AUXILIARIES AND ACCESSORIES:
INCLUDE ALL AUXILIARIES AND ACCESSORIES FOR A COMPLETE AND PROPERLY OPERATING SYSTEMS.

8. INVESTIGATION OF SITE:
CHECK SITE AND EXISTING CONDITIONS THOROUGHLY BEFORE PROVIDING A BID PRICE. ADVISE ARCHITECT / ENGINEER OF DISCREPANCIES OR QUESTIONS BEFORE BIDDING.

9. COORDINATION:
PROVIDE ALL REQUIRED COORDINATION AND SUPERVISION WHERE MECHANICAL WORK INTERFACES DIRECTLY OR INDIRECTLY WITH WORK OF ANY TRADES.

10. PROVISIONS FOR OPENINGS:
PROVIDE ALL REQUIRED OPENINGS TO ACCOMPLISH THE WORK. PROVIDE SLEEVES OR OTHER APPROVED METHODS TO ALLOW PASSAGE OF ITEMS INSTALLED.

11. INTERRUPTION OF EXISTING SERVICES:
ANY INTERRUPTION OF EXISTING MECHANICAL AND ELECTRICAL SERVICES SHALL BE COORDINATED IN ADVANCE WITH THE OWNER'S REPRESENTATIVE. THIS INCLUDES, BUT IS NOT LIMITED TO, SERVICES PROVIDING CHILLED WATER, ELECTRICITY OR OTHER CRITICAL SYSTEMS AS MAY BE PERTINENT TO THIS PARTICULAR PROJECT. SERVICE INTERRUPTION TIMES AND DURATION OF INTERRUPTION OF SERVICES SHALL BE DECIDED BY THE OWNER. PROVIDE APPROPRIATE PROVISIONS (E.G., ISOLATION SHUT-OFF VALVES, DAMPERS, END CAPS AND SIMILAR ITEMS) AS NECESSARY TO ACCOMMODATE THE REQUIRED SERVICE INTERRUPTIONS. IF SHUTDOWNS CANNOT BE ACCOMMODATED, PROVIDE MEANS FOR 'WET' TAPPING OR 'HOT' TAPPING OF PIPING SYSTEMS.

12. CLEANING AND PROTECTION:
EQUIPMENT: ALL MECHANICAL EQUIPMENT PROVIDED SHALL BE THOROUGHLY CLEANED OF ALL DIRT, OIL, CONCRETE, ETC., ANY DENTS, SCRATCHES OR OTHER VISIBLE BLEMISHES SHALL BE CORRECTED AND THE APPEARANCE OF THE EQUIPMENT MADE 'LIKE NEW' AND TO THE SATISFACTION OF THE ARCHITECT / ENGINEER.

UPON COMPLETION AND BEFORE FINAL ACCEPTANCE OF THE WORK, ALL DEBRIS, RUBBISH, LEFTOVER MATERIALS, TOOLS AND EQUIPMENT SHALL BE REMOVED FROM THE SITE.

PROTECTION OF WORK UNTIL FINAL ACCEPTANCE: PROTECT ALL MATERIALS AND EQUIPMENT FROM DAMAGE, ENTRANCE OF DIRT AND CONSTRUCTION DEBRIS FROM THE TIME OF INSTALLATION UNTIL FINAL ACCEPTANCE. ANY MATERIALS AND EQUIPMENT WHICH ARE DAMAGED SHALL BE REPAIRED TO 'AS NEW CONDITION OR REPLACED AT THE DIRECTION OF THE ARCHITECT / ENGINEER. WHERE FACTORY FINISHES OCCUR AND DAMAGE IS MINOR, FINISHES MAY BE TOUCHED UP. IF, IN THE OPINION OF THE ARCHITECT / ENGINEER THE DAMAGE IS EXCESSIVE, FACTORY FINISH SHALL BE REPLACED TO 'NEW' CONDITION.

13. SHOP DRAWINGS:
SUBMIT SHOP DRAWINGS FOR ALL WORK INCLUDING ALL ITEMS, SERVICES AND SYSTEMS PROVIDED FOR THE PROJECT.

SHOP DRAWINGS SHALL CLEARLY SHOW THE FOLLOWING:

TECHNICAL AND DESCRIPTIVE DATA IN DETAIL EQUAL TO OR GREATER THAN THE DATA GIVEN IN THE ITEM SPECIFICATION. INDICATE ALL CHARACTERISTICS, SPECIAL MODIFICATIONS AND FEATURES. WHERE PERFORMANCE AND CHARACTERISTICS DATA SHALL BE PROVIDED IN A DEGREE WHICH IS BOTH QUANTITATIVELY AND QUALITATIVELY EQUAL TO THAT SPECIFIED AND SHOWN SO THAT COMPARISON CAN BE MADE. PRESENT DATA IN DETAIL EQUAL TO OR GREATER THAT THAT GIVEN IN ITEM SPECIFICATION AND INCLUDE ALL WEIGHTS, DEFLECTIONS, SPEEDS, VELOCITIES, PRESSURE DROPS, OPERATING TEMPERATURES, OPERATING CURVES, TEMPERATURE RANGES, SOUND RATINGS, DIMENSIONS, SIZES, MANUFACTURER'S NAMES, MODEL NUMBERS, TYPES OF MATERIAL USED, OPERATING PRESSURES, FULL LOAD AMPERAGES, STARTING AMPERAGES, FOULING FACTORS, CAPACITIES, SET POINTS, CHEMICAL COMPOSITIONS, CERTIFICATIONS AND ENDORSEMENTS, OPERATING VOLTAGES, THICKNESS, GAUGES AND ALL OTHER RELATED INFORMATION AS APPLICABLE TO PARTICULAR ITEMS.

EXCEPTIONS TO OR DEVIATIONS FROM THE CONTRACT DOCUMENTS. SHOULD ARCHITECT / ENGINEER ACCEPT ANY ITEMS HAVING SUCH DEVIATIONS WHICH ARE NOT CLEARLY BROUGHT TO ARCHITECT / ENGINEER'S ATTENTION, IN WRITING, ON ITEM SUBMITTAL, THEN CONTRACTOR IS RESPONSIBLE FOR CORRECTION OF SUCH DEVIATIONS REGARDLESS OF WHEN SUCH DEVIATIONS ARE DISCOVERED.

14. SHOP DRAWINGS TECHNICAL INFORMATION BROCHURE:
NEAR CONCLUSION OF WORK AND NOT LESS THAN 10 DAYS PRIOR TO SUBSTANTIAL COMPLETION INSPECTION, SUBMIT A TECHNICAL INFORMATION DOCUMENT (TID) CONTAINING ALL FINAL SHOP DRAWING AND SUBMITTAL INFORMATION FOR THE PROJECT. THIS TECHNICAL INFORMATION DOCUMENT SHALL CONSIST OF ONE OR MORE ADEQUATELY SIZED, HARD-COVER, 3-RING BINDER FOR 8-1/2" x 11" SHEETS.

SHOP DRAWING TECHNICAL AND DESCRIPTIVE DATA SHALL BE INSERTED IN THE TID IN PROPER ORDER ON ALL ITEMS. PROVIDE COMPLETE INFORMATION, INCLUDING, BUT NOT LIMITED TO, WIRING AND CONTROL DIAGRAMS. SCALE DRAWINGS SHOWING THAT PROPOSED SUBSTITUTE EQUIPMENT WILL FIT INTO ALLOTTED SPACE (INDICATE ALL SERVICE ACCESS, CONNECTIONS, ETC...), TEST DATA AND OTHER DATA REQUIRED TO DETERMINE IF EQUIPMENT COMPLIES FULLY WITH THE SPECIFICATIONS.

15. OPERATING INSTRUCTIONS:
SUBMIT FOR CHECKING A SPECIFIC SET OF WRITTEN OPERATING INSTRUCTIONS ON EACH ITEM WHICH REQUIRES INSTRUCTIONS TO OPERATE. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

16. MAINTENANCE INFORMATION:
SUBMIT FOR ACCEPTANCE MAINTENANCE INFORMATION CONSISTING OF MANUFACTURER'S PRINTED INSTRUCTION AND PARTS LISTS FOR EACH MAJOR ITEM OF EQUIPMENT. AFTER ACCEPTANCE, INSERT INFORMATION IN EACH TECHNICAL INFORMATION DOCUMENT.

17. SYSTEM GUARANTEE:
PROVIDE A ONE YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER TO REPLACE FOR THE OWNER ANY DEFECTIVE WORKMANSHIP, EQUIPMENT OR MATERIAL WHICH HAS BEEN FURNISHED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE SYSTEM. THIS GUARANTEE SHALL ALSO INCLUDE REASONABLE ADJUSTMENTS OF THE SYSTEM REQUIRED FOR PROPER OPERATION DURING THE GUARANTEE PERIOD. EXPLAIN THE PROVISIONS OF GUARANTEE TO OWNER AT THE 'INSTRUCTION IN OPERATION CONFERENCE'.

18. INSTRUCTION TO OWNER:
WHEN ALL WORK IS COMPLETED, PROVIDE THE OWNER AN 'INSTRUCTION IN OPERATION CONFERENCE'. AT THE CONFERENCE, THE CONTRACTOR SHALL REVIEW WITH THE OWNER ALL APPROPRIATE INFORMATION.

HVAC DUCTWORK SCHEDULE

TYPE / LOC	SUPPLY AIR	RETURN AIR	EXHAUST AIR	OUTSIDE AIR
ABOVE CEILING	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL EXT. FIBERGLASS WRAP	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL EXTERIOR FIBERGLASS
EXPOSED (MECHANICAL ROOM)	SHEET METAL EXT. FIBERBOARD	SHEET METAL EXT. FIBERBOARD	SHEET METAL SINGLE WALL NON-INSULATED	WRAP SHEET METAL EXT. FIBERGLASS
EXPOSED (OCCUPIED AREA'S)	ROUND OR OVAL SHEET METAL DOUBLE WALL	ROUND OR OVAL SHEET METAL DOUBLE WALL	SHEET METAL SINGLE WALL NON-INSULATED	SHEET METAL DOUBLE WALL INSULATED

NOTES:
1. EXTERIOR WRAPPED DUCTS SHALL HAVE TWO COATS OF FABRIC AND MASTIC.
2. INSULATED DUCTS LOCATED IN OUTDOOR AREA'S SHALL HAVE 1/2" THICKER INSULATION THAN INDOOR APPLICATIONS.
3. FOR GENERAL DUCTWORK CONSTRUCTION ONLY. SEE PLANS FOR INDIVIDUAL CASES.
4. EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE PAINTED TO MATCH SURROUNDING STRUCTURE ABOVE THE DUCT UNLESS NOTED OTHERWISE.
5. EXPOSED DUCTS LOCATED IN FINISHED SPACES SHALL BE SUPPORTED BY CABLES. REFER TO DETAILS.
6. PROVIDE SHEET METAL TRANSITIONS BETWEEN LOUVERS AND DUCTWORK. INSULATED EXTERIOR OF SHEET METAL PLENUM WITH FIBER BOARD INSULATION IN CONCEALED LOCATIONS. PROVIDE DOUBLE WALL INSULATED SHEET METAL PLENUM IN EXPOSED LOCATIONS.
7. MAXIMUM DISTANCE OF FLEXIBLE BRANCH DUCTWORK TO AIR DEVICES SHALL BE 6 FEET WHERE LENGTH EXCEEDS 6 FEET. THE REMAINING BALANCE OF DUCTWORK SHALL BE EXTERNALLY INSULATED ROUND SHEET METAL DUCTWORK TO CONICAL BELLMOUTH SPIN-IN TAP AT MAIN DUCT TRUNK. SNAPLOCK DUCT IS NOT ACCEPTABLE.
8. FLEXIBLE DUCTWORK SHALL BE FLEXMASTER TYPE 8M OR EQUAL.
9. SNAPLOCK DUCTWORK IS NOT ALLOWED.

RENOVATION

SYMBOL	DESCRIPTION
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED
24x12	NEW DUCTWORK TO BE PROVIDED
24x12	EXISTING DUCTWORK TO REMAIN
24x12	EXISTING DUCTWORK TO BE REMOVED
CWS	NEW PIPING TO BE PROVIDED
CWS	EXISTING PIPING TO REMAIN
CWS	EXISTING PIPING TO BE REMOVED
(2)10	RELOCATE EXISTING DEVICE, EXTEND RUN-OUT AS NEEDED. BALANCE TO FLOW INDICATED
A(2)10	*** PROVIDE NEW DEVICE AT NEW LOCATION. EXTEND RUN-OUT AS NEEDED AND BALANCE TO FLOW INDICATED

GENERAL TAGS

SYMBOL	DESCRIPTION
AHU-1	AIR HANDLING UNIT
F-1	FAN
RTU-1	ROOF TOP UNIT
CU-1	CONDENSING UNIT
VAV-1	VARIABLE AIR VOLUME TERMINAL UNIT
FPU-1	FAN POWERED VARIABLE VOLUME TERMINAL UNIT
EDH-1	ELECTRIC DUCT HEATER
P-1	PUMP
	REVISION REFERENCE
M6	DETAIL REFERENCE: TOP: DETAIL # BOTTOM: DRAWING # DETAIL SHOWN ON
	NEUTRAL RELATIVE PRESSURE
	POSITIVE RELATIVE PRESSURE
	NEGATIVE RELATIVE PRESSURE
1	KEY NOTE CALLOUT

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2017 FLORIDA BUILDING CODE, 2017 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

SHEET INDEX

SHEET NUMBER	SHEET NAME
M-000	LEGEND - HVAC
M-201	LEVEL 1 - FLOOR PLAN - HVAC
M-202	AIRHAWK FLOOR PLAN
M-203	ROOF PLAN - HVAC
M-601	AIR SYSTEM SCHEMATICS - HVAC
M-701	CONTROLS - HVAC
M-801	SCHEDULES - HVAC
M-802	SCHEDULES - HVAC
M-901	DETAILS - HVAC
M-902	DETAILS - HVAC
M-903	DETAILS - HVAC

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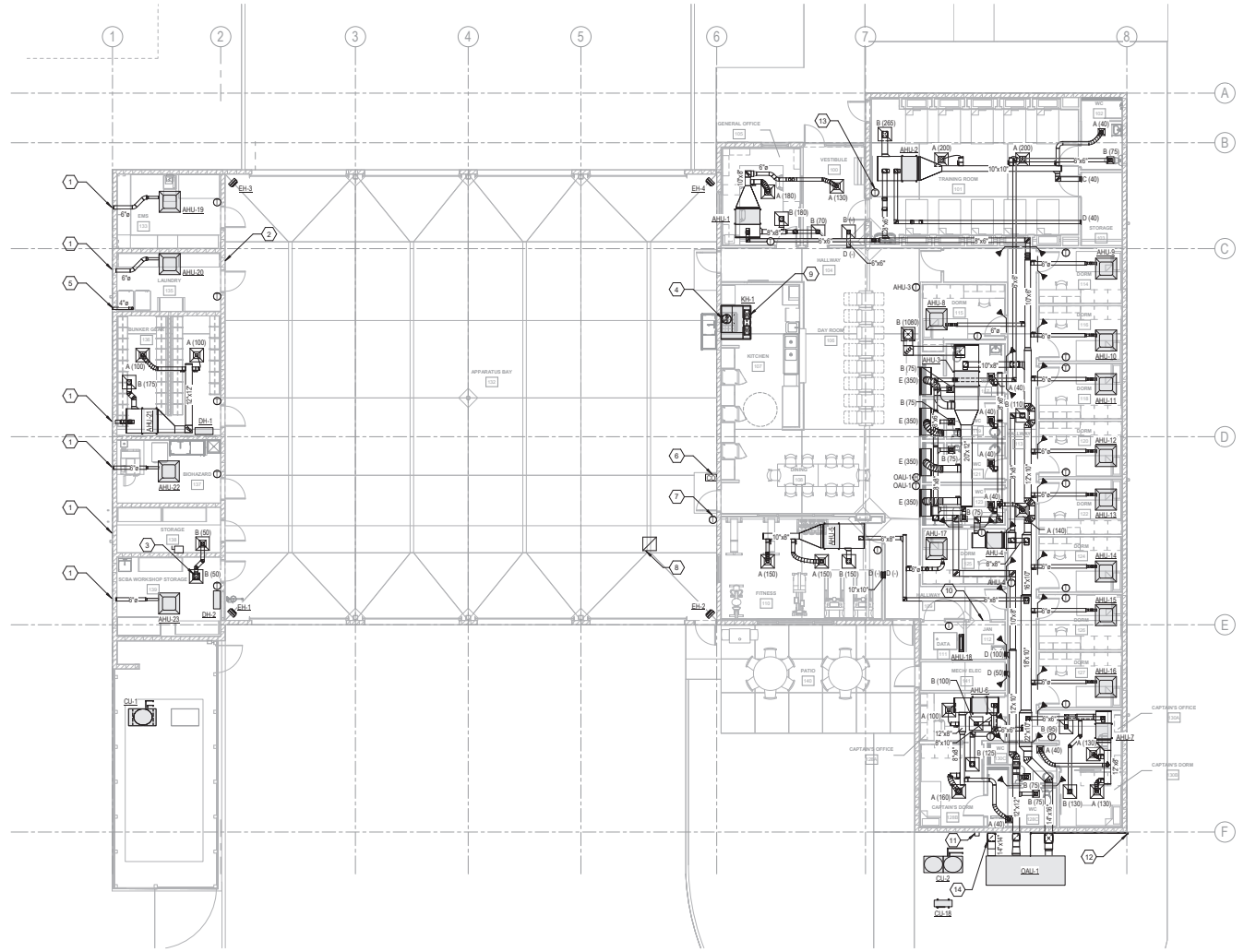
LEGEND - HVAC

M-000



1 LEVEL 1 - FLOOR PLAN - HVAC
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKEOFFS SERVING SINGLE DIFFUSER, GRILLE, OR REGISTER.

B. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS.

C. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCTWORK AND RATED WALLS.

D. COORDINATE DUCTWORK WITH STRUCTURE. PREPARE COORDINATION DRAWINGS AS SPECIFIED. REFER TO STRUCTURAL DRAWINGS FOR ALL CMU PENETRATIONS.

E. PROVIDE REMOTE DAMPER OPERATORS FOR VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

F. PROVIDE ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED CLEARANCES FOR ALL EQUIPMENT.

KEY NOTES

NUMBER	NOTES
1	PROVIDE AMCA 540 & 550 INTAKE LOUVER WITH AT LEAST 0.1 SF FREE AREA.
2	PROVIDE AMCA 540 & 550 INTAKE LOUVER AT HIGH WALL WITH AT LEAST 4.5 SF FREE AREA
3	ROUTE DUCT UP TO EXHAUST FAN EF-1 ON LOW ROOF.
4	PROVIDE 16" FIRE RATED GREASE DUCT FROM KITCHEN HOOD OUTLET TO KHEF-1 ON ROOF. BASIS OF DESIGN: SCHEIBLER FYREGUARD
5	PROVIDE WALL CAP FOR DRYER EXHAUST.
6	PROVIDE CO AND NO2 MONITORING SYSTEM. TIE MONITORING SYSTEM TO PURGE FAN EF-2.
7	PROVIDE THERMOSTAT FOR UNIT HEATER CONTROL IN APPARATUS BAY.
8	ROUTE DUCT UP TO EXHAUST FAN EF-2 ON HIGH ROOF. PROVIDE BIRD SCREEN AT OPEN END OF EXPOSED DUCT WITHIN APPARATUS BAY.
9	PROVIDE MAKEUP AIR DUCT UP TO KHSF-1 ON ROOF.
10	PROVIDE MINIMUM 6' X 8' DOOR GRILLE AT 112 JANITOR.
11	PROVIDE VFD FOR OAU-1 WITH NEMA 3R ENCLOSURE
12	ROUTE CONDENSATE DRAIN PIPE FROM OAU-1 TO DRAIN TO GREEN SPACE EAST OF MECHANICAL EQUIPMENT YARD.
13	THERMOSTAT IS TO BE PROGRAMMABLE ONLY THROUGH THE BUILDING AUTOMATED SYSTEM OR CENTRAL CONTROLLER. (TYPICAL ALL)
14	PROVIDE EXHAUST DUCT WITH HORIZONTAL DISCHARGE AT LEAST 10' ABOVE GRADE FROM OAU-1 EXHAUST OUTLET. PROVIDE BIRD SCREEN AT DISCHARGE OPENING.

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Mechanical Engineering & Consulting, LLC
Tel 813.855.3171
Engineer of Record
Mark Volterra, P.E.
STATE OF FLORIDA
LICENSE NO. 67511

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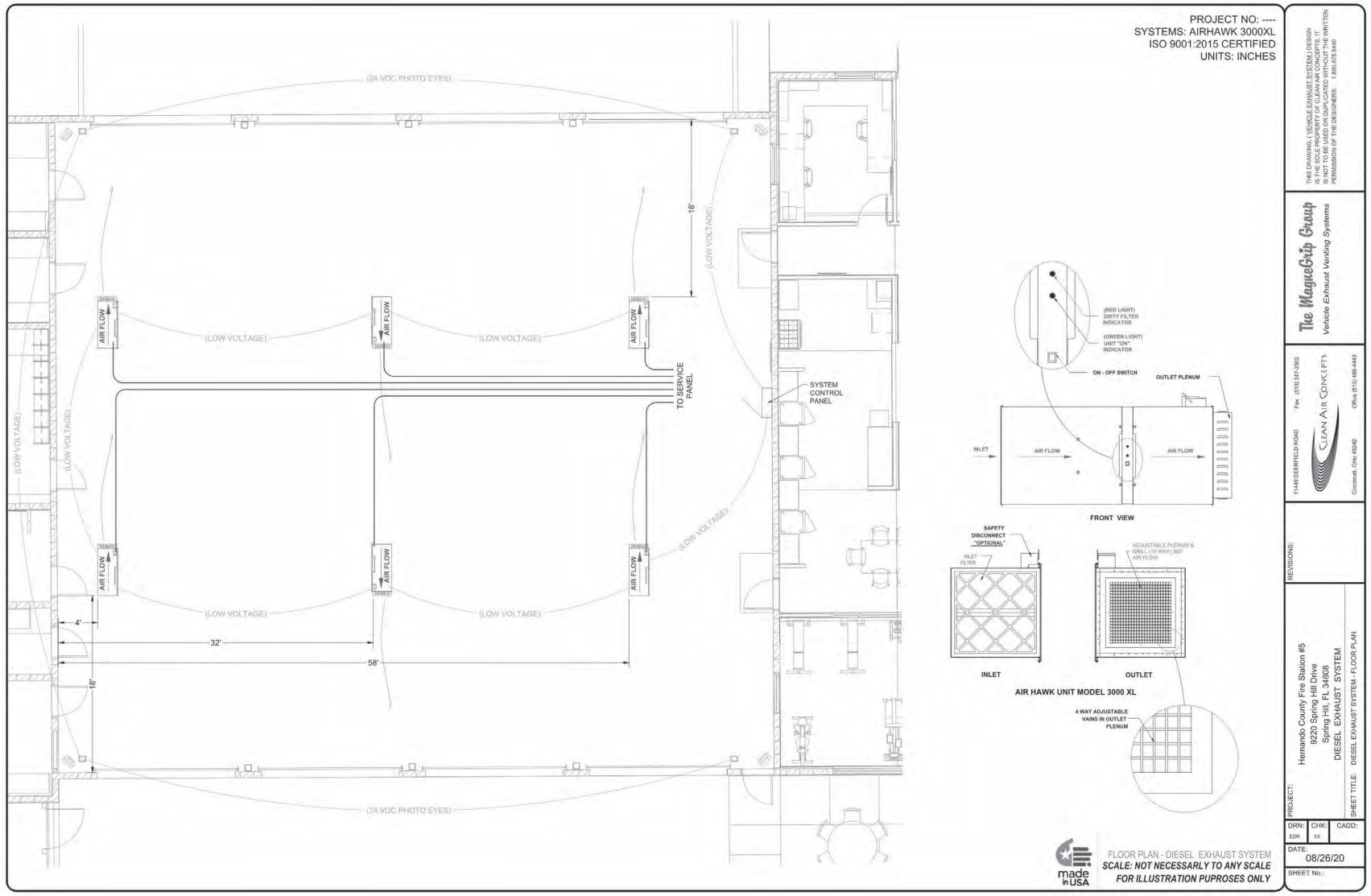
LEVEL 1 - FLOOR PLAN - HVAC

M-201



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The MagneGrip Group
Vehicle Exhaust Venting Systems

11449 DEERFIELD ROAD Fax (513) 247-2602
Cincinnati, Ohio 45242 Office (513) 489-4440
CLEAN AIR CONCEPTS

REVISIONS:

PROJECT: Hernando County Fire Station #5
9220 Spring Hill Drive
Spring Hill, FL 34608
DIESEL EXHAUST SYSTEM

SHEET TITLE: DIESEL EXHAUST SYSTEM - FLOOR PLAN

DRN: EDR | CHK: XX | CADD:

DATE: 08/26/20

SHEET No.:

BASIS OF DESIGN: AIRHAWK 3000XL
FOR REFERENCE ONLY

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VOLT AIR
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TX # 66 971 EC13011 PH (239) 574-2211
CERTIFICATE OF AUTHORIZATION # 28183
Engineer of Record
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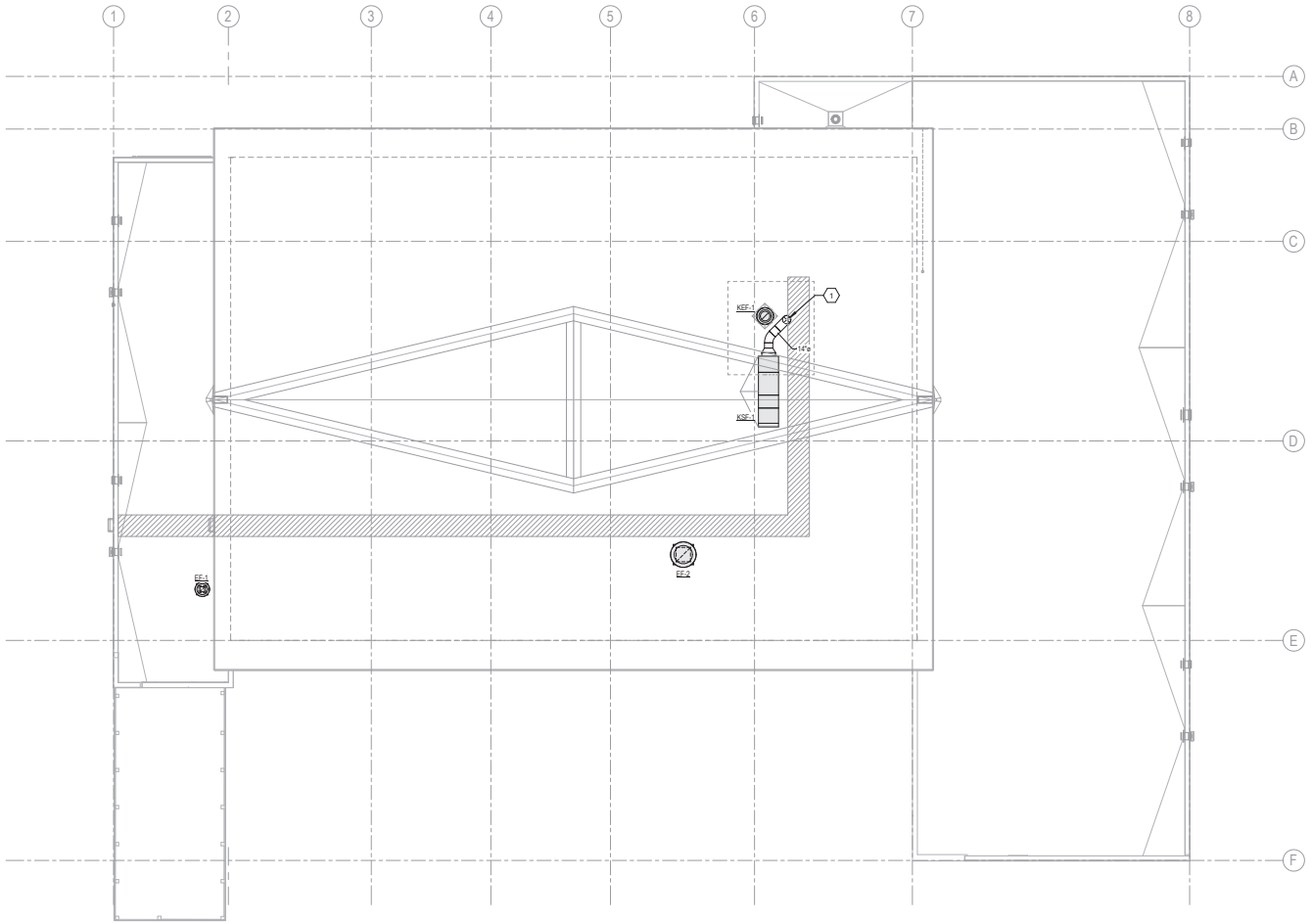
AIRHAWK FLOOR PLAN

M-202



1 ROOF PLAN - HVAC
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE VOLUME DAMPERS AT ALL BRANCH TAKEOFFS SERVING SINGLE DIFFUSER, GRILLE, OR REGISTER.

B. PROVIDE TURNING VANES IN ALL RECTANGULAR ELBOWS.

C. MAINTAIN MINIMUM 6" CLEARANCE BETWEEN DUCTWORK AND RATED WALLS.

D. COORDINATE DUCTWORK WITH STRUCTURE. PREPARE COORDINATION DRAWINGS AS SPECIFIED. REFER TO STRUCTURAL DRAWINGS FOR ALL CMU PENETRATIONS.

E. PROVIDE REMOTE DAMPER OPERATORS FOR VOLUME DAMPERS LOCATED ABOVE INACCESSIBLE CEILINGS.

F. PROVIDE ALL CODE REQUIRED AND MANUFACTURER RECOMMENDED CLEARANCES FOR ALL EQUIPMENT.

KEY NOTES

NUMBER	NOTES
1	ROUTE 14" ROUND MAKEUP AIR DUCT DOWN TO KITCHEN HOOD.

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Engineer of Record
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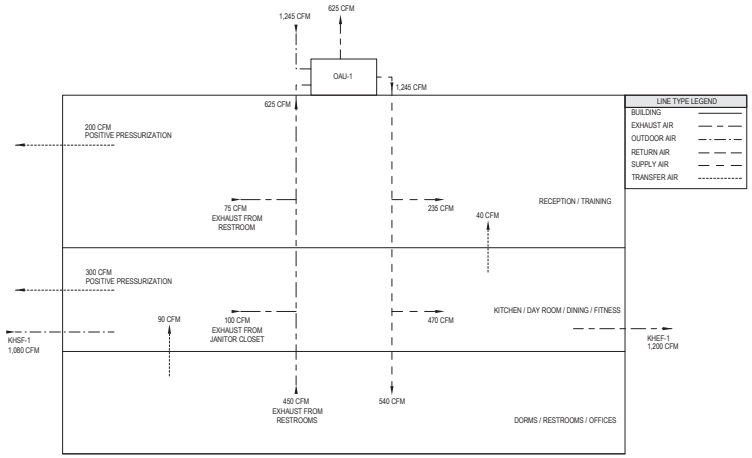
ROOF PLAN - HVAC

M-203



BUILDING AIR BALANCE

EQUIPMENT TAG	EXHAUST AIR (CFM)	OA (VIA AHU'S)	ZONE PRESSURE TOTAL
OAU-1	625	1,245	+620 CFM
KHEF-1	1,200	---	-120 CFM
KHSF-1	---	1,080	
BUILDING TOTAL	1,825	2,325	+500

1. ALL VALUES ARE CALCULATED UNDER FULL FLOW CONDITIONS FOR THE KITCHEN HOOD EQUIPMENT AND WITH RELIEF BEING FULLY UTILIZED. ACTUAL CONDITIONS MAY VARY BASED ON KITCHEN EQUIPMENT OPERATING CONDITIONS.

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AIR SYSTEM SCHEMATICS - HVAC

M-601

1.1 SEQUENCE OF OPERATIONS

A. GENERAL: THE FOLLOWING SEQUENCES OF OPERATION ARE INTENDED TO CONVEY THE NORMAL OPERATING SEQUENCE OF EACH PARTICULAR SYSTEM WHEN IN THE AUTOMATIC CONTROL MODE AS AFFECTED BY THE BUILDING CONTROL SYSTEM (BCS). ALL SET-POINTS INDICATED IN THE SEQUENCE ARE FOR REFERENCE ONLY AND SHALL BE COMPLETELY ADJUSTABLE.

B. INDIVIDUAL FAN STATUS SHALL BE INDICATED AT THE BCS SYSTEM THROUGH THE CURRENT SWITCHES AND/OR UNIT OR VFD OUTPUT.

C. INDIVIDUAL DIRTY FILTER STATUS SHALL BE INDICATED AT THE BCS SYSTEM THROUGH ADJUSTABLE DIFFERENTIAL PRESSURE SENSORS (ANALOG INPUT). AN ALARM SHALL BE SENT WHEN FILTER REACHES 0.5" W.G. (ADJ.) AND 1.0" W.G. (ADJ.) FOR PRE-FILTER AND FILTER, RESPECTIVELY.

1.2 DEDICATED OUTDOOR AIR SYSTEM (DOAS): OAU-1

A. GENERAL: OAU-1 IS A VARIABLE VOLUME FAN HEAT PUMP SYSTEM, WITH A TOTAL ENTHALPY RECOVERY WHEEL, SINGLE VFD CONTROLLED SUPPLY FANS, DX COOLING COIL, HOT GAS REHEAT COIL AND NO ELECTRIC HEATING COIL.

B. PROVIDE A DEDICATED, STANDALONE INTELLIGENT FIELD CONTROLLER FOR THIS UNIT. PROVIDE, RESIDENT IN THE CONTROLLER A MINIMUM OF FOUR, INDEPENDENTLY ADJUSTABLE PID CONTROL LOOPS FOR THE FOLLOWING FUNCTIONS:

a. LEAVING AIR TEMPERATURE CONTROL
b. VFD FAN CONTROL
c. OUTSIDE AIR CONTROL
d. HUMIDITY CONTROL

C. OAU FANS SHALL BE AUTOMATICALLY ENABLED BY THE BCS START/STOP RELAY WHEN IN "AUTO" POSITION AT THE FAN MOTOR STARTER OR MANUALLY WHEN IN "HAND". WHEN SCHEDULED "ON" VIA THE BCS, THE VARIABLE FREQUENCY DRIVE (VFD) UNIT SHALL BE ENERGIZED AND THE SUPPLY FANS AND EXHAUST FAN SHALL RUN CONTINUOUSLY. UPON PROOF OF FAN OPERATION, THE CONTROLS SHALL BE ENABLED.

D. OPERATION: PROVIDE AN ADJUSTABLE PID LOOP WHICH WILL MODULATE THE FAN VFD TO MAINTAIN AN EXHAUST AIR AND OUTSIDE AIR SETPOINT. ENABLE THIS LOOP ONLY AFTER STARTUP OF THIS UNIT TO INSURE THAT THE VFD STARTS IN AN UNLOADED CONDITION, AND SLOWLY RAMPS UP TO REQUIRED SPEED. SHOULD THE DATA LOOP BE LOST OR THE SENSOR FAIL, THE BCS SHALL DRIVE THE VFD TO PROVIDE 100 PERCENT OF THE SCHEDULED AIR FLOW. UPON PROOF OF SUPPLY FAN OPERATION, THE BCS WILL ASSUME CONTROL OF THE FAN SPEED AND THE LEAVING AIR TEMPERATURE.

E. LEAVING AIR TEMPERATURE OPERATING SEQUENCE: MONITOR COIL DISCHARGE AIR TEMPERATURE SENSOR FOR CONTROL OF THE COMPRESSOR(S). THROUGH A SEPARATELY ADJUSTABLE PID ALGORITHM, MODULATE THE COMPRESSOR OPERATION TO MAINTAIN THE DISCHARGE AIR TEMPERATURE AT 55°F (ADJ.). AS THE TEMPERATURE DROPS BELOW SETPOINT THE COMPRESSORS SHALL MODULATE AS PER THE INTERNAL DOAS CONTROLS. SHOULD THE SUPPLY AIR SENSOR FAIL, DRIVE THE COMPRESSORS TO FULL COOLING.

F. HUMIDITY CONTROL: IF THE SPACE SENSOR INDICATES THE HUMIDITY IN THE SPACE IS ABOVE SETPOINT OF 60%RH (ADJ.), THE LAT AFTER THE COOLING COIL SHALL BE RESET DOWN BY 2 DEGREES. IF AFTER TEN MINUTES THE RELATIVE HUMIDITY IS STILL HIGH THE LAT WILL RESET DOWNWARD ANOTHER 2 DEGREES. MINIMUM LAT SHALL BE 45°F (ADJ.). AS THE HUMIDITY COMES BACK INTO RANGE THE AIR HANDLING UNIT LAT SHALL IN REVERSE STEPS BE RESET BACK TO THE ORIGINAL SCHEDULED LAT.

G. HOT GAS REHEAT CONTROL: IF THE SPACE TEMPERATURE IS NOT MAINTAINED WITH FAN SPEED AT MINIMUM FLOW OR THE TEMPERATURE IS MAINTAINED BUT THE HUMIDITY IS ABOVE THE UPPER LIMIT SETPOINT (60% RH, ADJ.), THEN THE BAS SHALL INDEX THE UNIT TO RESET THE DISCHARGE AIR TEMPERATURE, INCREASING DISCHARGE AIR TEMPERATURE BY 2 DEGREES EVERY 10 MINUTES BY THE MODULATION OF THE HOT GAS REHEAT COIL. IF THE SPACE TEMPERATURE IS NOT MAINTAINED AFTER 60 MINUTES, THE UNIT ELECTRIC HEATER WILL STAGE ON TO MAINTAIN SPACE TEMPERATURE.

H. ELECTRIC HEATER CONTROL: THE UNIT ELECTRIC HEATER WILL STAGE ON WHEN THE UNIT COMPRESSOR ENTERS A DEFROST CYCLE. THE ELECTRIC HEATER WILL REMAIN OPERATIONAL UNTIL THE DEFROST CYCLE IS COMPLETE. ONCE THE DEFROST CYCLE IS COMPLETE, THE ELECTRIC HEATER WILL STAGE OFF.

DURING UNOCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL CLOSE, AND ALL EXHAUST FANS SHALL BE INDEXED OFF.

1.3 VRF CONTROL

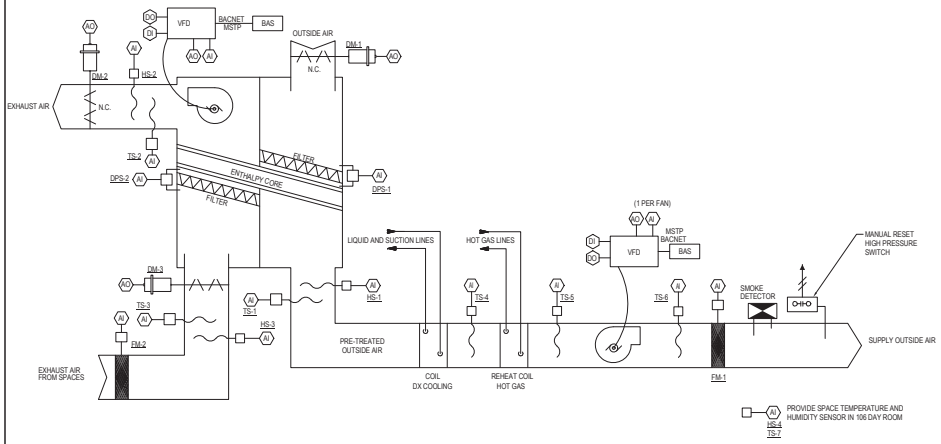
A. GENERAL: EACH VRF SYSTEM SHALL COMPRISE CONDENSING UNITS (OUTDOOR UNIT) WITH VARIABLE SPEED COMPRESSOR(S) AND MODULATING HEAD PRESSURE CONTROL, A SYSTEM OF REFRIGERANT DISTRIBUTION TO INDOOR UNITS (AHUs), AND REFRIGERANT PIPING. ALL INTERNAL VRF CONTROLS SHALL BE BY MANUFACTURER.

B. EACH AHU/FCU SHALL BE CAPABLE OF BEING SEQUENCED TO OCCUPIED/UNOCCUPIED MODE WITH THE BAS.

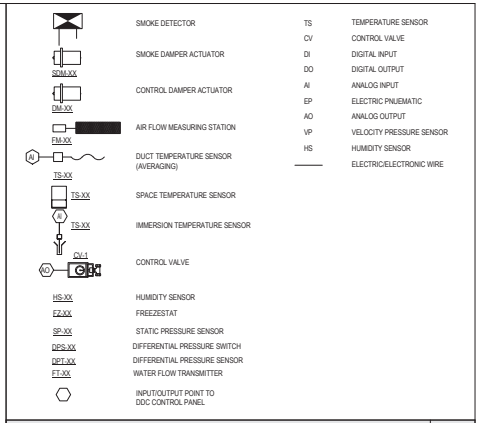
C. ALL SETPOINTS AT EACH AHU SHALL BE FULLY ADJUSTABLE IN THE FRONT END BAS.

D. INTERNAL VRF OPERATIONS AND CONTROLS SHALL NOT BE VISIBLE OR ADJUSTABLE FROM THE BAS. HOWEVER, ANY AND ALL ALARMS SENT BY THE VRF CONTROL SYSTEM SHALL BE VISIBLE WITHIN THE BAS AND SHALL ALARM APPROPRIATE PERSONNEL.

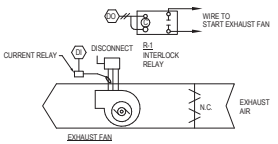
BCS SEQUENCES — E



DEDICATED OUTSIDE AIR CONTROL DIAGRAM (OAU-1) — D



LEGEND AND ABBREVIATIONS — A



EXHAUST FAN CONTROL -

EXHAUST FAN EF-1 SHALL BE INTERLOCKED WITH THEIR RESPECTIVE AHU'S OUTSIDE AIR DAMPER AND AHU FAN STATUS.

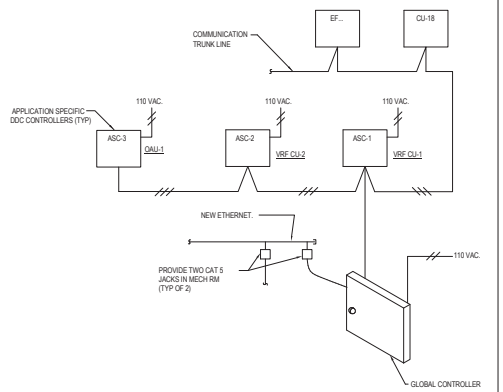
EXHAUST FAN EF-2 SHALL BE INTERLOCKED WITH CONTACTORS AT THE APPARATUS BAY ROLL-UP DOORS AND THE CARBON MONOXIDE SENSOR IN THE APPARATUS BAY. EF-2 SHALL OPERATE WHILE ALL DOORS ARE CLOSED OR THE CARBON MONOXIDE SENSOR INDICATES HIGH LEVELS OF GASES PRESENT.

STATUS ALARMS SHALL BE INDICATED AT THE BAS FRONT END.

EXHAUST FAN CONTROL (NON-VFD DRIVEN) — B

GENERAL NOTES:

1. APPLICATION SPECIFIC CONTROLLERS (ASC) SHALL BE PROVIDED WITH A GATEWAY INTERFACE CARD CAPABLE OF INTERFACING WITH THE BUILDING LEVEL CONTROLS. THE BUILDING LEVEL CONTROL SYSTEM SHALL BE CAPABLE OF MONITORING INPUTS AND OUTPUTS OF THE ASC CONTROLLER AND REMOTE SETPOINT ADJUSTMENT.
2. 110VAC TO CONTROLLERS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. CONTROL CONTRACTOR TO PROVIDE SURGE SUPPRESSORS TO INCOMING LINE VOLTAGE.
3. THE OWNER AND THE CONTRACTOR MUST COORDINATE TO OBTAIN ALL THE PROPER INTERNET PROTOCOLS NECESSARY FOR DATA OUTLETS TO BE LIVE (DNX RECORDS, MAC ADDRESS, IP ADDRESS ETC.).



DDC COMMUNICATION RISER — C

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

CONTROLS - HVAC

M-701

DEDICATED OUTSIDE AIR DX UNIT SCHEDULE

PLAN MARK	MODEL	SUPPLY FAN DATA					EXHAUST FAN DATA					NET COOLING CAPACITY					HEAT PUMP CAPACITY			ERV PERFORMANCE						ELECTRICAL DATA								UNIT WEIGHT (LBS)
		SUPPLY AIR CFM	OUTSIDE AIR CFM	EXT. S.P.	FAN BHP/HP	FAN FLA	EXHAUST AIR CFM	EXT. S.P.	FAN BHP/HP	FAN FLA	TOT. MBH	SENS. MBH	EAT DB	EAT WB	COOLING COIL LAT DB	COOLING COIL LAT WB	SENS. MBH	EAT DB	COIL LAT DB	SUMMER EAT DB/WB	SUMMER LAT DB/WB	SUMMER EFF	WINTER EAT DB/WB	WINTER LAT DB/WB	WINTER EFF	NO. COMP.	COMP. RLA(EA)	NO. FANS	COND. FLA(EA)	HEATER KW	EER	UNIT FLA	MCA	MOCP SIZE	VOLT/ PHASE	
OAU-1	DABE108D3	1245	1245	1.5	0.83/2.5	--	675	1.5	0.66/2.5	--	87.4	44.7	82.4	72.2	50.1	50.0	61.2	51.5	95.1	92/80	82.4/72.2	0.77	36/32	51.5/44.8	0.77	1	27.6	1	4.2	15	15.0	60.6	75.7	80	208/3	1996

NOTES:
1. BASIS OF DESIGN - TRANE
2. PROVIDE WITH 2" MERV 8 IN COMPLIANCE WITH ASHRAE STANDARDS 52.1-1992.
3. EXTERNAL STATIC PRESSURE INCLUDES 0.5 INCHES W.G. FOR DIRTY FILTERS.
4. MODULATING CONDENSER FAN MOTORS FOR HEAD PRESSURE CONTROL.
5. EFFICIENCIES SHALL MEET LATEST FLORIDA BUILDING CODE- ENERGY CONSERVATION & ASHRAE 90.1-2013.
7. PROVIDE SINGLE POINT ELECTRICAL CONNECTION FOR COMPRESSOR, FAN, AND CONTROLS AS PART OF PACKAGED UNIT.
8. FULL COOLING AMBIENT DESIGN TEMP IS 95° F.
9. PROVIDE UNIT WITH MODULATING COMPRESSOR ON THE LEAD CIRCUIT. EVAPORATOR COIL SHALL HAVE A MINIMUM OF 4 ROWS (INTERLACED).
10. PROVIDE WITH SECONDARY OVERFLOW CONNECTION.
11. PROVIDE WITH DEHUMIDIFICATION FUNCTION (MODULATING HOT GAS REHEAT FUNCTION)
12. FACTORY ASSEMBLED, PIPED, WIRED AND TESTED AS A SINGLE PACKAGE UNIT.
13. UNIT SHALL INCLUDE HAVE A SIGHT GLASS AND STAINLESS STEEL DRAIN PAN.
14. PROVIDE FACTORY MOUNTED LCD DISPLAY AND PROGRAMMED DDC CONTROLS WITH OPEN PROTOCOL COMMUNICATION.
15. UNIT SHALL BE PROVIDED WITH SPRAY-APPLIED OR FACTORY DIPPED CORROSION-RESISTANT EXTERIOR CABINET AND COIL (CONDENSER, REFRIGERANT, HOT GAS REHEAT) COATING. COATING SHALL BE DONE AT COATING MANUFACTURER'S CONTROLLED FACTORY. COATING MANUFACTURER SHALL BE LUVATA OR AN APPROVED EQUAL. CORROSION DURABILITY SHALL BE CONFIRMED THROUGH TESTING TO NO LESS THAN 10,000 HOURS SALT SPRAY PER ASTM B117-90.
16. PROVIDE START UP PERFORMED BY A FACTORY AUTHORIZED TECHNICIAN.
17. PROVIDE UNIT WITH AN TOTAL ENTHALPY ENERGY RECOVERY DEVICE WITH NO MOVING PARTS.
18. PROVIDE 2" FOAM BLOWN DOUBLE WALL CONSTRUCTION INCLUDING THE FLOOR AND ROOF, WITH HINGED ACCESS DOORS WITH TOOLLESS ACCESS.
19. PROVIDE A FIRST YEAR FULL UNIT PARTS AND LABOR WARRANTY. PROVIDE A FIVE YEAR COMPRESSOR PARTS WARRANTY.
20. PROVIDE WITH CONDENSER COIL HAIL GUARDS. WIRE SCREENS ARE NOT ACCEPTABLE.
21. PROVIDE UNIT WITH FACTORY INSTALLED TXV OR EXV.
22. SUMMER ERV EXHAUST AIR TEMPERATURE IS 75DB AND 50 PERCENT RELATIVE HUMIDITY. WINTER ERV EXHAUST AIR TEMPERATURE IS 70DB AND 50 PERCENT RELATIVE HUMIDITY.
23. PROVIDE UNIT WITH HEAT PUMP OPERATION FOR UNIT HEATING.
24. PROVIDE WITH A DIRECT DRIVE PLENUM FAN. PROVIDE WITH VARIABLE FREQUENCY DEVICE WITH NEMA 3R ENCLOSURE FOR OUTDOOR MOUNTING. VFD BASIS OF DESIGN: DANFOSS OR SIMILAR.
25. PROVIDE UNIT WITH 100% OUTSIDE AIR DAMPER WITH 2 POSITION MOTORIZED DAMPER.
26. PROVIDE FACTORY INSTALLED OUTSIDE AIRFLOW MONITORING AND FAN AIRFLOW MONITORING DEVICES TIED BACK TO THE UNIT CONTROLS.

DEHUMIDIFICATION UNIT SCHEDULE

PLAN MARK	MODEL NO.	WATER REMOVAL PTS / DAY	INLET AIR TEMP °F	INLET RH %	SUPPLY CFM	E.S.P. IN. WG	ELECTRICAL DATA COMP. RLA(ea)	UNIT KW	MCA	MAX FUSE	VOLT/ PHASE	WEIGHT LBS	DIMENSIONS L x W x H
DH-1	WM150	71	80°F	60	650	0.1	-	1.50	13 A	20 A	120/1	165	12 x 31.8 x 26.7
DH-2	WM150	71	80°F	60	650	0.1	-	1.50	13 A	20 A	120/1	165	12 x 31.8 x 26.7

NOTES:
1. MODEL NUMBERS AND SELECTIONS ARE BASED ON EBAC.
2. PROVIDE WITH FACTORY SUPPLIED HUMIDITY SENSOR.
3. PROVIDE WITH AUXILIARY DRAIN PAN WHICH EXTENDS 6" BEYOND UNIT PERIMETER ON ALL SIDES, INCLUDE FLOAT SWITCH. UNIT SHALL SHUT DOWN UPON ACTIVATION OF FLOAT SWITCH.
4. PROVIDE WITH SINGLE POINT POWER CONNECTION.
5. PROVIDE DEHUMIDIFICATION UNIT WITH WALL BRACKET.
6. PROVIDE WITH INTEGRAL CONDENSATE PUMP.

KITCHEN HOOD SCHEDULE

PLAN MARK	MODEL	TYPE	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	EXHAUST VOLUME (CFM)	EXHAUST SP (IN)	MATERIAL
KH-1	GXEW-48.00-S	WALL CANOPY	48.0	39.0	24.0	1200	0.78	430 SS

NOTES
1. BASIS OF DESIGN: GREENHECK
2. PROVIDE WITH KITCHEN FAN CONTROL CENTER WITH FAN, TEMP, LIGHT SWITCHES AND FIRE RELAY.
3. PROVIDE WITH WET CHEMICAL AND WATER FIRE SUPPRESSION SYSTEM.
4. PROVIDE WITH TEMPERATURE CONTROL INTERLOCK.
5. PROVIDE WITH STAINLESS STEEL CENTRIFUGAL FILTER.
6. PROVIDE WITH STAINLESS STEEL BACK SPLASH PANEL. COORDINATE HEIGHT AND WIDTH WITH HOOD LENGTH AND MOUNTING HEIGHT.
7. UL 710 LISTED

FAN SCHEDULE

PLAN MARK	PRODUCT MANUFACTURER	MODEL	TYPE	CFM	EX. STATIC PRESSURE	FAN RPM	MOTOR RPM	MOTOR HP	MOTOR ECM	VOLT / PHASE	DRIVE TYPE	INLET SONES	ACCESSORIES	INTERLOCKS
EF-1	GREENHECK	G-097-VG	ROOF MOUNTED	150	0.75	1432		1/4	YES	115 / 1	DIRECT	6.9	1, 4, 5, 7, 10, 26	OAU-1
EF-2	GREENHECK	GB-220	ROOF MOUNTED	3,600	0.50	631		3/4	NO	208 / 1	BELT	10.7	1, 4, 5, 7, 26	CO MONITOR
KHEF-1	GREENHECK	CUE-141A	ROOF MOUNTED	1,200	1.30	1422	1725	1	YES	208 / 3	DIRECT	9.8	1, 4, 5, 24, 26	HOOD
KHSF-1	GREENHECK	MSX-PI10-H12-MF	ROOF MOUNTED	1,080	0.75	2159	1725	1/2	YES	208 / 3	DIRECT	13.3	1, 4, 5, 7, 26, 27	HOOD

GENERAL NOTES

1. MODEL NUMBERS AND FAN SELECTION ARE BASED ON GREENHECK WITH THE FOLLOWING ACCESSORIES SCHEDULED:

1) BACKDRAFT DAMPER
2) THERMOSTAT
3) BIRDSCREEN
4) 18" ROOF CURB
5) DISCONNECT SWITCH
6) EXPLOSION PROOF DISCONNECT
7) EQUIPMENT SUPPORTS
8) MOTORIZED DAMPER
9) CURB MOUNT ROOF JACK
10) SPEED CONTROLLER
11) WALL SHUTTER
12) VIBRATION ISOLATORS
13) WALL CAP
14) WALL SHUTTER - MOTORIZED
15) WEATHER COVER
16) 2 SPEED / 1 WINDING
17) WALL COLLAR
18) VARIABLE FREQUENCY DRIVE AND CONTROL
19) FAN GUARD/SCREEN
20) AMCA-A SPARK PROOF CONSTRUCTION
21) INSULATED HOUSING FOR SOUND CONTROL
22) HINGED FRAMES
23) CORROSION PROOF COATING
24) UL 762
25) ISOLATION DAMPER
26) MIAMI-DADE RATED CONSTRUCTION, COMPLYING WITH TEST PROTOCOLS, TAS-201,TAS-202, TAS-203, CURB AND UNIT FASTENING DESIGN SHALL BE SIGNED AND SEALED BY A LICENSED FLORIDA STRUCTURAL ENGINEER AND SHALL BE INCLUDED DURING THE SHOP DRAWING SUBMITTAL PROCESS.
27) FAN FILTER

2. INSTALL ALL OUTDOOR FANS PER MANUFACTURER'S DETAILED INSTRUCTIONS FOR MAINTAINING HIGH WIND CERTIFICATIONS.
3. STATIC PRESSURE EXCLUDES FILTER, BELT, OR OTHER INTERNAL COMPONENT LOSSES.
4. KHEF-1: PROVIDE WITH: UL-762 LISTING; GREASE BOX; HINGED BASE; FAN BASE SEAL SUITABLE FOR GREASE DUCTS. DISCONNECT WITH NEMA-4X ENCLOSURE.

AIR DISTRIBUTION SCHEDULE

SYMBOL/TAG	CFM	DUCT/NECK SIZE	FACE SIZE LENGTH	DESCRIPTION
A (XXX0)	000-150 151-280 281-400 401-500 501-600	6Ø 8Ø 10Ø 12Ø 14Ø	24x24 24x24 24x24 24x24 24x24	BASIS OF DESIGN: PRICE ASPD COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO SQUARE TO ROUND ADAPTOR 12x12 FACE MAY BE USED IN HARD CEILINGS FOR AIRFLOWS LESS THAN 150 CFM.
B (XXX0)	000-100 101-210 211-380 381-600 601-900 901-1300 2000-3000	DUCT SIZE 6x6 or 6Ø 8x8 or 8Ø 10x10 or 10Ø 12x12 or 12Ø 14x14 or 14Ø 16x16 or 16Ø 40x14 or 20Ø	12x12 24x24 24x24 24x24 24x24 24x24 24x24 40x14	BASIS OF DESIGN: PRICE 81 COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO 3/4" SPACING FIXED LOUVERS 22"x22"x3" BACK CAN FOR DUCT CONNECTION. PAINTED FLAT BLACK.
C (XXX)	050-220 221-270 271-330 331-380 381-450 451-500 501-550 551-620 621-780	6x6 10x6 12x6 14x6 16x6 18x6 22x6 18x8 16x12	8x6 10x6 12x6 14x6 16x6 18x6 22x6 18x8 16x12	BASIS OF DESIGN: PRICE 620DAL COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES DOUBLE DEFLECTION 3/4" SPACING
D (XXX)	050-100 101-230 231-360 361-540 541-700 701-960 961-1040 1041-1360	6x6 8x8 10x10 12x12 14x14 16x16 20x16 48x12	6x6 8x8 10x10 12x12 14x14 16x16 20x16 48x12	BASIS OF DESIGN: PRICE 630DAL COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: YES SINGLE DEFLECTION 3/4" SPACING FIXED LOUVERS
E (XXX)	4 FT LONG PLENUM WITH 12" OVAL INLET 90 CFM/FT			BASIS OF DESIGN: PRICE - MODEL "AS" (LINEAR AIR DEVICE) COLOR: WHITE MATERIAL: ALUMINUM OPPOSED BLADE DAMPERS: NO (1) - 3" SLOT WITH PATTERN CONTROLLER. PROVIDE WITH PLENUM AND EXPOSED FRAME FOR SIDEWALL APPLICATION

NOTES:

1. AIR DISTRIBUTION DEVICES LOCATED WITHIN ACOUSTICAL TILE CEILINGS SHALL BE PROVIDED WITH BORDER TYPE FOR LAY-IN MOUNTING. AIR DISTRIBUTION DEVICES LOCATED WITHIN GYPSUM BOARD CEILINGS OR WALLS SHALL BE PROVIDED WITH BORDER TYPE FOR SURFACE MOUNTING. REFER TO ARCHITECTURAL DOCUMENTS FOR CEILING TYPES. PROVIDE TRIM-RING FOR SQUARE CONE DIFFUSERS LOCATED WITHIN GYPSUM BOARD CEILINGS.
2. AIR DISTRIBUTION DEVICES LOCATED IN SMALL ROOMS WHERE FULL 24"x24" GRID ARE NOT AVAILABLE SHALL BE PROVIDED WITH SURFACE MOUNTING BORDERS IN LIEU OF LAY-IN. SECURE EACH DEVICE TO CEILING GRID WITH FIELD-FABRICATED SUPPORTS.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

SCHEDULES - HVAC

M-801

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF INDOOR UNIT SCHEDULE

Tag Reference	Model	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Cooling Design Entering Temp DB/WB (°F) / [Water in temp]	Heating Design Entering Temp DB/WB (°F) / [Water in temp]	Corrected Capacity					Estimated Cooling Coil LAT (°F) / [LWT]	Estimated Heating Coil LAT (°F) / [LWT]	Peak Fan Airflow (cfm) / [Design gpm G(US)/min]	Outside Airflow (cfm)/min)	Voltage / Phase	Electrical MCA/MFS	Notes / Options
						Cooling Diversity Full/Partial (See Note 5, 6)	Cooling Total Capacity (BTU/h)	Cooling Sensible Capacity (BTU/h)	Heating Diversity Full/Partial (See Note 5, 6)	Heating Capacity (BTU/h)							
AHU-1	TPEFYP012MA143A	12,000.0	13,500.0	75.0/62.5	70.0	PARTIAL DEMAND	11,210.8	8,342.1	PARTIAL DEMAND	8,941.4	54.0	92.3	371	60	208/230V/1-phase	1.20(208V)/1.20(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-2	TPEFYP015MA143A	15,000.0	17,000.0	75.0/62.5	70.0	PARTIAL DEMAND	14,013.5	11,341.1	PARTIAL DEMAND	11,259.6	53.5	91.1	494	175	208/230V/1-phase	1.45(208V)/1.45(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-3	TPEFYP054MA143A	54,000.0	60,000.0	75.0/62.5	70.0	PARTIAL DEMAND	50,448.7	38,760.6	PARTIAL DEMAND	39,739.7	50.5	94.8	1483	320	208/230V/1-phase	3.51(208V)/3.51(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-4	TPEFYP006MA143A	6,000.0	6,700.0	75.0/62.5	70.0	PARTIAL DEMAND	5,605.4	5,605.4	PARTIAL DEMAND	4,437.6	57.5	83.7	300	190	208/230V/1-phase	1.05(208V)/1.05(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-5	TPEFYP008MA143A	8,000.0	9,000.0	75.0/62.5	70.0	PARTIAL DEMAND	7,473.9	6,186.7	PARTIAL DEMAND	5,961.0	56.6	87.5	315	150	208/230V/1-phase	1.05(208V)/1.05(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-6	TPEFYP006MA143A	6,000.0	6,700.0	75.0/62.5	70.0	PARTIAL DEMAND	5,605.4	5,605.4	PARTIAL DEMAND	6,696.2	57.5	83.7	300	75	208/230V/1-phase	1.05(208V)/1.05(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-7	TPEFYP006MA143A	6,000.0	6,700.0	75.0/62.5	70.0	PARTIAL DEMAND	5,605.4	5,605.4	PARTIAL DEMAND	6,696.2	57.5	83.7	300	75	208/230V/1-phase	1.05(208V)/1.05(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-8	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-9	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-10	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-11	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-12	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-13	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-14	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-15	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-16	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-17	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,671.2	4,347.8	PARTIAL DEMAND	3,709.0	60.5	82.3	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-18	PKA-A12HA7	12,000.0	14,000.0	75.0/62.5	70.0	PARTIAL DEMAND	10,038.5	9,159.3	PARTIAL DEMAND	--	54.8	--	425	--	208/230V/1-phase	Powered by Outdoor	1, 2, 3, 4, 5, 6
AHU-19	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,375.8	4,227.6	PARTIAL DEMAND	5,596.7	60.9	88.5	280	20	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6
AHU-20	TPLFYP012FM140A	12,000.0	13,500.0	75.0/62.5	70.0	PARTIAL DEMAND	10,501.9	7,748.3	PARTIAL DEMAND	13,492.0	53.4	107.3	335	20	208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 5, 6
AHU-21	TPEFYP012M140A	12,000.0	13,500.0	75.0/62.5	70.0	PARTIAL DEMAND	11,049.9	7,987.6	PARTIAL DEMAND	14,098.3	55.9	102.7	300	25	208/230V/1-phase	1.05(208V)/1.05(230V)/15	1, 2, 3, 4, 5, 6, 7
AHU-22	TPLFYP012FM140A	12,000.0	13,500.0	75.0/62.5	70.0	PARTIAL DEMAND	10,501.9	7,748.3	PARTIAL DEMAND	13,492.0	53.4	107.3	335	20	208/230V/1-phase	0.29/0.29/15	1, 2, 3, 4, 5, 6
AHU-23	TPLFYP005FM140A	5,000.0	5,600.0	75.0/62.5	70.0	PARTIAL DEMAND	4,375.8	4,227.6	PARTIAL DEMAND	5,596.7	60.9	88.5	280	25	208/230V/1-phase	0.24/0.24/15	1, 2, 3, 4, 5, 6

NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. SEE OUTDOOR UNIT SCHEDULE FOR OUTDOOR AMBIENT CONDITIONS, CONNECTED CAPACITY, AND OTHER FACTORS ASSOCIATED WITH CORRECTED CAPACITIES.
4. SEE SCHEMATIC PIPING/CONTROL DIAGRAM FOR INDICATION OF REQUIRED INDOOR UNIT REMOTE CONTROLLERS, SYSTEM CONTROLLERS, AND INTEGRATION DEVICES.
5. PROVIDE WITH CONDENSATE PUMP.
6. FULL DEMAND CORRECTED CAPACITY INCLUDES DE-RATE ASSOCIATED WITH INDOOR VS. OUTDOOR CONNECTED CAPACITY INDICATED ON OUTDOOR UNIT SCHEDULE FOR ASSOCIATED SYSTEM. PARTIAL CORRECTED CAPACITY ASSUMES SUFFICIENT DIVERSITY EXISTS SUCH THAT THE CONNECTED CAPACITY DE-RATE DOES NOT APPLY. IT IS THE DESIGNER'S RESPONSIBILITY TO ENSURE "DIAMOND SYSTEM BUILDER" IS SET IN THE APPROPRIATE OUTPUT CAPACITY SETTING (FULL DEMAND/PARTIAL DEMAND) PRIOR TO GENERATING THIS SCHEDULE.
7. PROVIDE WITH MERV-13 FILTER BOX.

ELECTRIC HEATER SCHEDULE

MARK	LOCATION	AIRFLOW CFM	SIZE W" X H"	CAPACITY KW	VOLTS / PHASE	MANUFACTURER	MODEL NO.	INTERLOCKS
EH-1	APP. BAY	400	18" X 15"	5.0	208/3	REDD-I	--	TSTAT
EH-2	APP. BAY	400	18" X 15"	5.0	208/3	REDD-I	--	TSTAT
EH-3	APP. BAY	400	18" X 15"	5.0	208/3	REDD-I	--	TSTAT
EH-4	APP. BAY	400	18" X 15"	5.0	208/3	REDD-I	--	TSTAT

NOTES:
1. PROVIDE WALL MOUNTED THERMOSTAT.
2. PROVIDE WITH WALL MOUNTING KIT.

MITSUBISHI ELECTRIC TRANE HVAC US: CITY MULTI VRF OUTDOOR UNIT SCHEDULE

Tag Reference	Model Number	Modules	Nominal Cooling Capacity (BTU/h)	Nominal Heating Capacity (BTU/h)	Design Cooling Outdoor Temp DB (°F)	Design Heating Outdoor Temp WB (°F)	Corrected Cooling Total Capacity (BTU/h)	Corrected Heating Capacity (BTU/h)	Electrical-Per Module 208/230				Notes / Options
									Voltage / Phase	MCA 208/230	RFS	MOCP	
CU-1	TUMYP0601AK43NA	P60	60,000.0	66,000.0	92.0	32.9	60,316.0	62,672.8	208/230V / 1-phase	36	40	45	1, 2, 3, 4, 5
CU-2	TURYP1443AN40AN	P144	144,000.0	160,000.0	92.0	32.9	144,036.0	116,304.9	208/230V / 3-phase 3-wire	52/48	60/60	80/70	1, 2, 3, 4, 5
CU-15	PUY-A12NKA7		12,000.0	00.0	92.0	32.9	10,038.5	00.0	208/230V / 1-phase	11	15	28	1, 2, 3, 4, 5

NOTES:

1. NOMINAL COOLING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 80/67°F (DB/WB), OUTDOOR OF 95°F (DB).
2. NOMINAL HEATING CAPACITIES ARE BASED ON INDOOR COIL EAT OF 70°F (DB), OUTDOOR OF 43°F (WB)
3. EFFICIENCY VALUES FOR EER, IEER, COP ARE BASED ON AHRI 1230 TEST METHOD FOR MIXTURE OF DUCTED & NON-DUCTED INDOOR UNITS.
4. FOR SYSTEMS WITH MULTIPLE MODULES, REFRIGERANT PIPE DIMENSIONS INDICATE TOTAL SYSTEM COMBINED PIPING DOWNSTREAM OF MODULE TWINNING.
5. PROVIDE ADDED FIELD CHARGE LISTED IN ADDITION TO FACTORY CHARGE. THIS MUST BE UPDATED BASED UPON FINAL AS-BUILT PIPING LAYOUT.

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

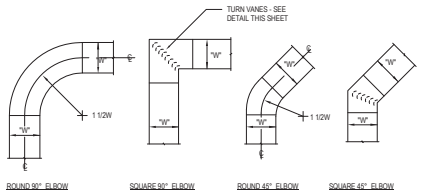
Project number 1932

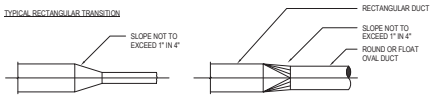
DISTRIBUTION

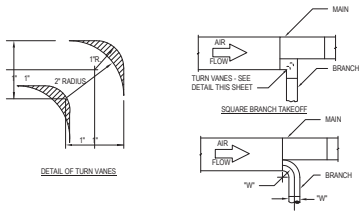
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

SCHEDULES - HVAC

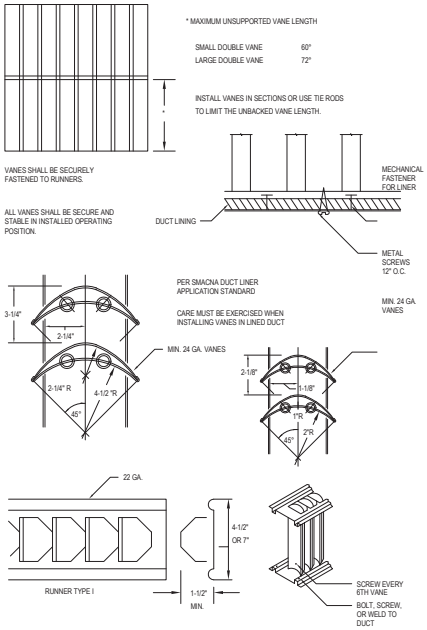
M-802



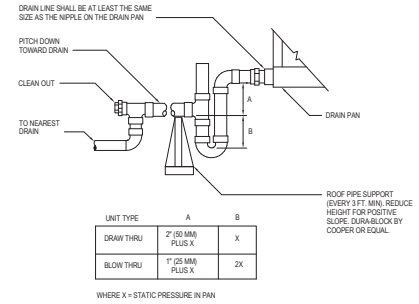




DUCT FITTINGS DETAIL | F



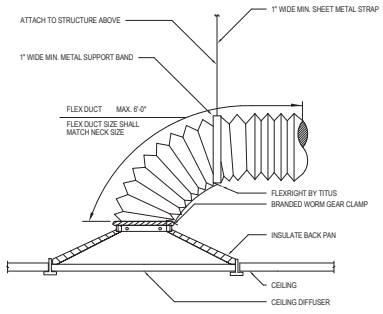
TURNING VANES & DUCT TRANSITION | D



UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) PLUS X	2X

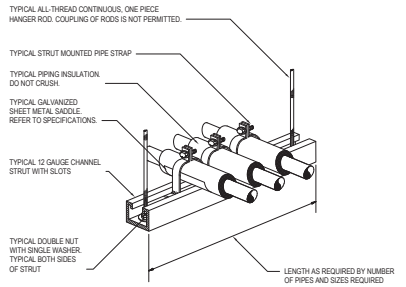
WHERE X = STATIC PRESSURE IN PAN

AIR HANDLING UNIT DRAIN TRAP DETAIL | A



(SIDE OF DUCT CONNECTION)

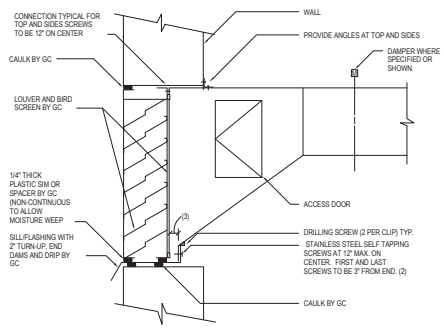
TYPICAL SUPPLY DIFFUSER CONNECTION | B



GENERAL NOTES

1. REFER TO SPECIFICATIONS AND FLOOR PLANS FOR MATERIAL AND SIZES.
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHER, AND PIPE STRAPS SHALL BE OF GALVANIZED PLATED MATERIALS.

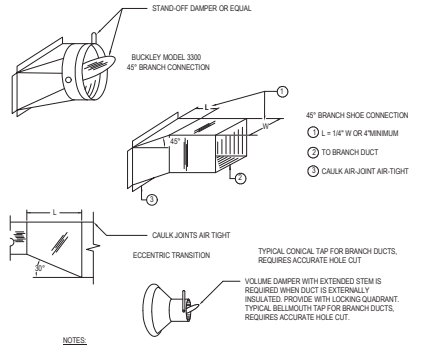
TRAPEZE HANGER | G



GENERAL NOTES

1. PLENUM CONNECTION TO LOUVER IS SIMILAR.
2. BOTTOM OF DUCT TO BE COMPLETELY OVERLAPPED WITH TURN-UP. DRILL TURN-UP PRIOR TO INSTALLING SELF TAPPING SCREW TO ENSURE DUCT IS DRAWN TIGHT TO TURN-UP.
3. MINIMUM 1" SCREW CONNECTION CLEARANCE.

DUCT CONNECTION TO LOUVER | E



NOTES:

1. CROWN 3210-DS2 OR EQUIVALENT. (3300-DS2 FOR 45 DEG TAKE-OFF).
2. WINGNUT ON SHAFT IS UNACCEPTABLE. WINGNUT MUST RIDE ON LOCKING QUADRANT.
3. GASKET MATERIAL ON OUTBOARD FLANGE.
4. MUST MEET SMACNA GAUGE STANDARDS AND 2" W.G. PRESSURE.
5. CONTINUOUS WELD LONGITUDINAL SEAM FOR NO LEAKAGE AT 2" W.G. STATIC PRESSURE.

BRANCH TAKEOFF FITTING DETAIL | C

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VOLT AIR MECHANICAL, INC.
Mechanical & Plumbing Contractors
Tel 813 855 1711 Fax 813 855 1711
Engineer of Record
ERIC J. OLSEN, P.E. #70183
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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

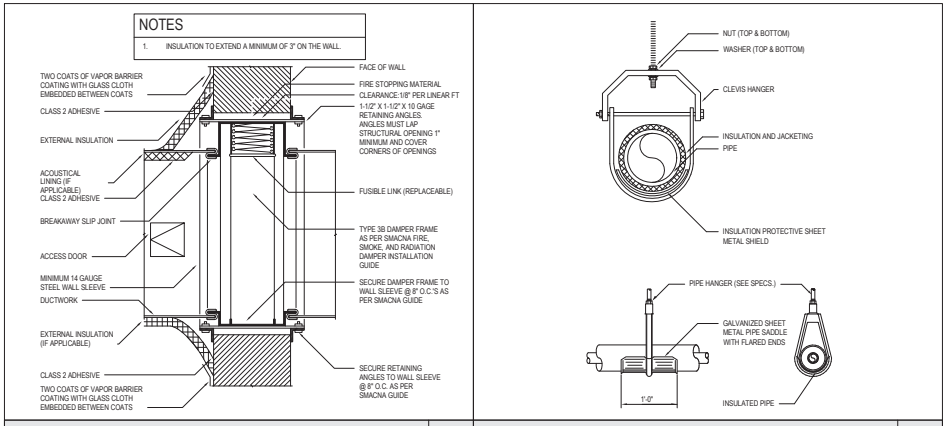
Project number 1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

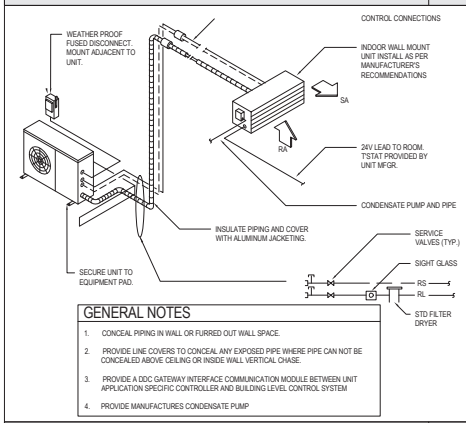
DETAILS - HVAC

M-901

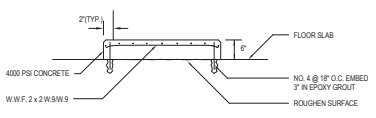


FIRE DAMPER DETAIL - THRU WALL | D

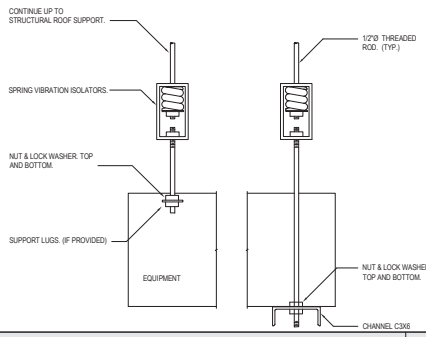
INSULATED PIPE HANGER | A



DUCTLESS AIR CONDITIONER UNIT DETAIL | E



HOUSEKEEPING PAD | B



SUSPENDED EQUIPMENT SUPPORT | C

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Mechanical Contractors
Engineer of Record
Phone Number
Email Address

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

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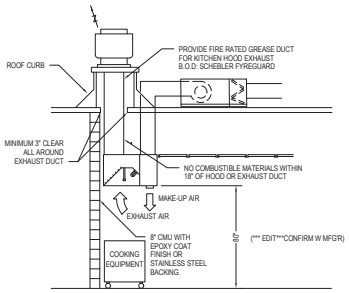
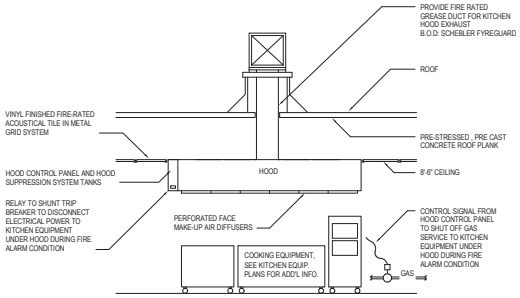
BID SET	01/27/21

DETAILS - HVAC

M-902



SECTION AT KITCHEN HOOD (FULLY COMPENSATING HOOD)



ELEVATION AT KITCHEN HOOD

GENERAL NOTES

1. HOOD SHALL BE COMPLETE WITH:
   A) PRE-ENGINEERED, UL LISTED CHEMICAL SUPPRESSION SYSTEM WITH AUTO AND REMOTE ACTIVATION AND CONTROL PANEL.
   B) UL LISTED PRE-WIRED LIGHT FIXTURES.
   C) UL CLASSIFIED STAINLESS STEEL BAFFLE TYPE FILTERS.
   D) SUPPRESSION SYSTEM SHALL COVER ENTIRE AREA UNDER HOOD.
2. HOOD MAKE-UP AIR AND EXHAUST AIR QUANTITIES SHALL BE BALANCED TO QUANTITIES LISTED ON MANUFACTURER'S LABEL AFFIXED TO HOOD.

KITCHEN HOOD AND GREASE DUCT SYSTEMS NOTE

1. HORIZONTAL GREASE DUCTS SHALL SLOPE A MINIMUM OF ¼" INCH PER LINEAR FOOT BACK DOWN TO THE HOOD. IF LENGTH EXCEED 40FT THEN DUCTS SHALL SLOPE A MINIMUM OF 1" INCH PER LINEAR FOOT.
2. GREASE DUCTS SHALL BE CONTINUOUSLY WELDED MINIMUM 16 GAUGE ANSI TYPE 304 OR 316 STAINLESS STEEL.
3. GREASE DUCT SHALL BE INSTALLED A MINIMUM OF 6 INCHES FROM NON-COMBUSTIBLES AND 18 INCHES FROM COMBUSTIBLES.
4. GREASE DUCTS SHALL HAVE NO SQUARE ELBOWS, OBSTRUCTIONS OR TURNING VANES INSTALLED.
5. PROVIDE CLEANOUT ACCESS AT ALL GREASE DUCT CHANGES OF DIRECTION.
6. HOODS SHALL BE FABRICATED IN ACCORDANCE WITH NFPA BULLETIN #96 AND SHALL BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF) AND THEY SHALL BE U.L. CLASSIFIED. ALL SYSTEMS EQUIPMENT AND COMPONENTS SHALL COMPLY WITH NFPA BULLETIN #96.
7. GREASE DUCT AIR VELOCITY SHALL BE MINIMUM 1500 FEET PER MINUTE.
8. HOOD DUCT CONNECTION SIZES ARE BASED ON HOODS SELECTED FOR BASIS OF DESIGN (SEE KITCHEN EQUIPMENT DESIGN DOCUMENTS). ACTUAL DUCT CONNECTION SIZES REQUIRED SHALL BE FIELD VERIFIED AND PROVIDE TO SUIT EQUIPMENT FURNISHED.

KITCHEN HOOD SYSTEM | A

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

DETAILS - HVAC

M-903

PLUMBING SPECIFICATIONS

GENERAL CONDITIONS:
THE GENERAL CONDITIONS, SPECIAL CONDITIONS, SUPPLEMENTARY CONDITIONS AND MECHANICAL CONDITIONS OF THE SPECIFICATIONS AND 'GENERAL CONDITIONS OF THE CONTRACT', CURRENT EDITION, ESTABLISHED IN STANDARD FORM BY THE AMERICAN INSTITUTE OF ARCHITECTS SHALL APPLY TO ALL WORK ON THIS PROJECT EXCEPT AS MODIFIED BELOW. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THESE PROVISIONS AND ADHERE TO THESE REQUIREMENTS. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES PRIOR TO INSTALLATION.

RELATED DOCUMENTS:
THIS CONTRACTOR IS REFERRED TO THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS. SUCH PLANS AND SPECIFICATIONS ARE A PART OF THE CONTRACT DOCUMENTS. CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS SURROUNDING THE WORK. IF ANY OF THE CONDITIONS REQUIRE A MODIFICATION OF THE SYSTEMS INDICATED BY THESE PLANS AND SPECIFICATIONS, THE CONTRACTOR SHALL INCLUDE THE COST OF SUCH MODIFICATIONS IN HIS BID. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF FAILURE TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO SUBMITTING BIDS.

MODIFICATIONS TO PLANS AND SPECIFICATIONS:
THROUGHOUT THE COURSES OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO PLANS AND SPECIFICATIONS MAY BE REQUESTED BY THE ARCHITECT / ENGINEER. THE CONTRACTOR SHALL MAKE SUCH ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY FOR THE PROPER INSTALLATION AND OPERATION AND WITHIN THE INTENT OF THE CONTRACT DOCUMENTS.

EQUIPMENT SUBSTITUTION:
IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO FORM A GUIDE FOR A COMPLETE INSTALLATION. EVERYTHING NECESSARY FOR THE COMPLETION AND SUCCESSFUL OPERATION OF THE WORK, WHETHER OR NOT HEREIN DEFINITELY SPECIFIED OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED AS WELL AND AS FAITHFULLY AS IT IS SPECIFIED OR INDICATED WITHOUT ADDITIONAL COST TO THE OWNER. THE MECHANICAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LENGTHS PRIOR TO INSTALLATION.

IF ANY ERRORS, DISCREPANCIES OR OMISSIONS APPEAR IN THE DRAWINGS, SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF SUCH ERROR OMISSION. IN THE EVENT OF THE CONTRACTOR FAILS TO GIVE SUCH NOTICE BEFORE CONSTRUCTION AND / OR FABRICATION OF THE WORK, HE WILL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS, DISCREPANCIES OR OMISSIONS AND THE COST TO RECTIFYING SAME.

CODE COMPLIANCE:
COMPLY WITH THE REQUIREMENTS OF ALL APPLICABLE STATE, LOCAL AND NATIONAL CODES REGULATING THIS WORK.

PERMITS, FEES, LICENSES:
THIS CONTRACTOR SHALL PAY ALL FEES AND RELATED CHARGES REQUIRED FOR PERMITS, LICENSES, ETC...REQUIRED FOR INSTALLATION OF THE PLUMBING SYSTEMS.

EQUIPMENT SUBSTITUTION:
THIS CONTRACTOR SHALL REIMBURSE THE ELECTRICAL CONTRACTOR, WITHOUT ANY CHARGE TO OWNER, ANY COSTS THE ELECTRICAL CONTRACTOR INCURS DUE TO THIS CONTRACTOR'S SUBSTITUTION OF EQUIPMENT HAVING DIFFERENT ELECTRICAL SERVICE REQUIREMENTS THAN THE SPECIFIED EQUIPMENT.

SHOP DRAWINGS:
THIS CONTRACTOR SHALL PROVIDE THE ARCHITECT WITH A MINIMUM OF SEVEN CERTIFIED COPIES OF ALL SHOP AND EQUIPMENT DRAWINGS FOR HIS APPROVAL, TWO OF WHICH SHALL BE RETAINED BY THE ARCHITECT / ENGINEER AND THE REMAINING BEING RETURNED TO THE CONTRACTOR. DRAWINGS SHALL BE SUBMITTED BEFORE START AT CONSTRUCTION. FAILURE OF COMPLIANCE WITH THIS PARAGRAPH WILL RESULT IN WITHHOLDING OF FINAL PAYMENT.

WARRANTY:
THIS CONTRACTOR SHALL WARRANT HIS WORK TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM SUBSTANTIAL COMPLETION.

BASIC MATERIALS AND METHODS:
ALL WORKMANSHIP AND MATERIALS SHALL BE OF THE HIGHEST QUALITY IN EVERY RESPECT. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, OF THE LATEST DESIGN AND FREE OF DEFECTS. ALL MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST AMENDED EDITION OF ALL APPLICABLE STANDARDS, INCLUDING BUT NOT LIMITED TO, ASTM, UL AND NEMA STANDARDS.

INSTALL ALL PIPING TO PRESENT A NEAT AND ORDERLY APPEARANCE. RUN ALL LINES PARALLEL WITH BUILDING WALLS AND CONSTRUCTION. KEEP PIPING FREE FROM CONTACT WITH STRUCTURE OR EQUIPMENT TO PREVENT NOISE TRANSMISSION, ALLOWING CLEARANCES FOR EXPANSION AND CONTRACTION. PROVIDE ACCESS DOORS OR PANELS FOR ALL VALVES, CLEANOUTS, CONTROL DEVICES, ETC...

WATER SUPPLY PIPING:
ALL ABOVE GROUND WATER SUPPLY PIPE SHALL BE TYPE L HARD TEMPER COPPER WATER TUBE COMPLYING WITH ASTM B88. ALL FITTINGS SHALL BE WROUGHT COPPER COMPLYING WITH USASI B16.1B & B16.18A. DIELECTRIC COUPLINGS SHALL BE USED BETWEEN STEEL AND COPPER CONNECTIONS. ALL BELOW GROUND WATER SUPPLY PIPE SHALL BE TYPE K COPPER WATER TUBE. PROVIDE 95-5 LEAD-FREE, SILVER SOLENOID JOINTS.

STORM, SANITARY WASTE AND VENT PIPING:
ALL ABOVE GROUND STORM, SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC-DWV PIPE AND FITTINGS (ASTM D2665) WITH SOLVENT WELD JOINTS. ALL BELOW GROUND SANITARY SOIL AND WASTE PIPING SHALL BE SCHEDULE 40 PVC-DWV PIPE FITTINGS (AST D2665) WITH SOLVENT WELD JOINTS.

PIPE HANGERS AND SUPPORT:
SUPPORT HORIZONTAL PIPING ADEQUATELY FROM SLABS OR OTHER STRUCTURAL MEMBERS AT INTERVALS SPECIFIED BELOW. USE GRINNELL #260 HANGERS OR APPROVED EQUAL, HAVING ADJUSTABLE WROUGHT CLEVIS, SOLID RODS AND SOCKETS. PIPING INSTALLED ALONG WALLS SHALL BE SUPPORTED BY GRINNELL #199, OR APPROVED EQUAL, STEEL ANGLE BRACKETS. THE SPACING OF PIPE SUPPORTS FOR STEEL PIPE 3/4" TO 2" SHALL BE 10'-0" AND FOR COPPER PIPE SIZE UP TO 2" SHALL BE 6'-0". HANGERS IN CONTACT WITH COPPER SHALL BE PLASTIC PLATED AND SHALL BE EQUAL TO GRINNELL FIGURE CT-65. HANGER RODS SHALL BE 3/8" DIAMETER FOR PIPES UP TO 2" IN SIZE.

PIPE SLEEVES AND OPENINGS:
THE CONTRACTOR SHALL CUT ALL OPENINGS IN FLOORS AND WALLS REQUIRED FOR PENETRATION OF PIPING. PATCH ALL OPENINGS FOR SOUND DEADENING AND FIRE SEPARATION. GENERAL CONTRACTOR SHALL PERFORM ALL FINISH PATCHING AS REQUIRED BY ARCHITECTURAL SPECIFICATIONS. ALL HORIZONTAL PIPING WHICH PENETRATES WALLS SHALL BE FITTED WITH PIPE SLEEVES MADE UP OF SIMILAR MATERIALS AS PIPE, 1" GREATER IN DIAMETER THAN OUTSIDE DIAMETER OF PIPE AND PIPE INSULATION. THE VOID BETWEEN PIPE AND SLEEVE SHALL BE SEALED WITH ROPE AND FILLED WITH NON-SHRINKING CEMENT. SLEEVES SHALL BE SUCH LENGTH THAT THEY END FLUSH WITH WALL FINISH ON BOTH SIDES OF WALL. PROVIDE RATED PENETRATIONS OF ALL WALLS AND FLOORS AS REQUIRED TO MAINTAIN THE RATING OF THE WALL OR FLOOR PENETRATED.

WHERE UNCOVERED EXPOSED PIPES PASS THRU WALLS, THEY SHALL BE FITTED WITH CRANE #10, OR EQUAL, WALL ESCUTCHEON PLATES. SLEEVES THROUGH WATER PROOF FLOORS SHALL EXTEND 2" ABOVE FINISHED FLOOR.

VALVES:
THE CONTRACTOR SHALL FURNISH AND INSTALL VALVES WHERE INDICATED ON PLAN AND NECESSARY FOR PROPER SYSTEM OPERATION AND COMPONENT ISOLATION. PROVIDE VALVES RATED FOR 125 PSI OR GREATER WORKING PRESSURE IN WATER PIPING.

CHECK VALVE UP TO 3"	APOLLO 61-109-61-500 OR NIBCO T-413-13
GLOBE VALVE UP TO 3"	CRANE NO. 1240, 1241 OR EQUAL
GATE VALVE UP TO 3"	CRANE NO. 428, 1334 OR EQUAL
BALL VALVE UP TO 3"	APOLLO SERIES 82-100 OR 82-200 FULLPORT
TEMP. & PRESS. RELIEF VALVE	WATTS 10L MOD. MA. OR EQUAL, 3/4" M x 3/4" F
WATER HAMMER ARRESTOR	WADE # 10 (HOT), WADE #5 (COLD)
BACKFLOW PREVENTER	WATTS NO. 9D OR EQUAL
VACUUM RELIEF VALVE	WATTS NO. 36A - 3/4" OR EQUAL
PRESSURE REDUCING VALVE	WATTS NO. U5
TRAP PRIMER VALVE	JR SMITH

INSULATION:
INSULATION SHALL BE REQUIRED ON ALL HOT SURFACES TO RETARD UNDESIRABLE HEAT TRANSFER AND PREVENT CONDENSATION. INSULATION SHALL BE APPLIED TO PIPE LINES AND EQUIPMENT ONLY AFTER THEY HAVE BEEN TESTED, INSPECTED AND ALL SURFACES THOROUGHLY CLEANED OF ALL MOISTURE, FOREIGN MATERIAL, GREASE AND RUST. INSULATION SHALL BE CONTINUOUS THROUGH WALLS, FLOORS, PARTITIONS, SLEEVES, ETC...EXCEPT WHERE OTHERWISE INDICATED OR SPECIFIED. ALL INSULATION ADHESIVES, SEALERS AND COATINGS SHALL HAVE A FIRE HAZARD RATING NOT TO EXCEED 25/50/50 FLAME SPREAD, FUEL CONTRIBUTED AND SMOKE DEVELOPED IN ACCORDANCE WITH UL 723 AND ASTM-E84. PROVIDE INSULATION FOR HOT WATER PIPING.

PIPE INSULATION SHALL BE 1" THICK RIGID FIBERGLASS WITH SELF-SEALING LAP AND ALL SERVICES JACKET OR APPROVED EQUAL.

INSULATION SHALL BE REQUIRED AT ALL ADA ACCESSIBLE LAVATORIES TO PROTECT AGAINST CONTACT OF HOT WATER AND DRAIN PIPES. INSULATE TRAP AND BOTH SUPPLIES WITH A HIGH IMPACT STAIN RESISTANT, PREMOLDED VINYL COVERING AS MANUFACTURED BY TRUEBRO 'HANDY-LAVGUARD', McGUIRE OR BROCAR 'TRAP-WRAP'.

PLUMBING FIXTURES:
ALL VENT & WATER PIPING SHALL RUN ABOVE FLOOR OF PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. ALL SANITARY DRAIN AND WASTE PIPING SHALL RUN BELOW FLOOR OF PLAN ON WHICH SHOWN UNLESS OTHERWISE INDICATED. P-1, FD-1, ETC...REFER TO FIXTURES LISTED IN SCHEDULES AND LOCATED ON THE PLANS.

PLUMBING ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISH FLOOR
AW	ACID WASTE
AV	ACID VENT
CA	COMPRESSED AIR
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CO	CLEAN OUT
CONT	CONTINUATION
CW	COLD WATER
DCW	DOMESTIC COLD WATER
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
EXIST	EXISTING
ESH	EMERGENCY SHOWER / EYEWASH
EWH	ELECTRIC WATER HEATER
EWC	ELECTRIC WATER COOLER
F	DEGREE FAHRENHEIT
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FS	FLOOR SINK
G	GAS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GR	KITCHEN WASTE (GREASE)
HB	HOSE BIBB
HD	HUB DRAIN
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRCULATING
IE	INVERT ELEVATION
IW	INDIRECT WASTE
KW	KILOWATT
LBS	POUNDS
MH	MANHOLE
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PEMB	PRE-ENGINEERED METAL BUILDING
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE PIPE
RD	ROOF DRAIN
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SD	STORM DRAIN
SF	SQUARE FEET
SH	SHEET
SS	SERVICE SINK
STO	OVERFLOW STORM DRAIN
V	VENT
VAC	VACUUM
VTR	VENT THRU ROOF
WCO	WALL CLEAN OUT
WM	WASHING MACHINE SUPPLY AND DRAIN BOX
WTR	WATER

CODE COMPLIANCE

1. TO THE BEST OF MY KNOWLEDGE, THESE PLANS AND SPECIFICATIONS ARE COMPLETE AND COMPLY WITH THE 2017 FLORIDA BUILDING CODE, 2017 FLORIDA FIRE PREVENTION CODE AND THE CODES REFERENCED WITHIN.

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATING
G	GAS
GR	KITCHEN WASTE (GREASE)
S	SANITARY PIPING
	SANITARY VENT
ST	ABOVE GROUND STORM
STO	OVERFLOW STORM DRAIN
CD	CONDENSATE DRAIN
CA	COMPRESSED AIR
M	WATER METER
	HOSE BIBB OR WALL HYDRANT WITH VALVE IN RISER
	HOSE BIBB OR WALL HYDRANT WITH VALVE
	CLEAN OUT PLUG
	WALL CLEAN OUT
	FLOOR CLEAN OUT
FD	FLOOR DRAIN
RD	ROOF DRAIN (ABOVE)
FS	FLOOR SINK
	SHUT-OFF VALVE IN VALVE BOX
	SHUT-OFF VALVE
	BALL VALVE
	CALIBRATED BALANCING VALVE
	CHECK VALVE (SWING)
	PRESSURE REDUCING VALVE
	SOLENOID OPERATED VALVE
	REDUCED PRESSURE BACKFLOW PREVENTER
	RELIEF OF SAFETY VALVE
	GAS COCK
	GAS PRESSURE REGULATOR
	CONNECTION, TOP
	CONNECTION, BOTTOM
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, TURNED UP
	TEE, TURNED DOWN
	CAP
	DIRECTION OF FLOW
	COMPRESSED AIR PRESSURE REGULATOR
TP FD	1/2" LINE TO PRIMER
	CODED OR KEY NOTES
1	REVISION NUMBER
1 P-1	DETAIL REFERENCE: TOP DETAIL NUMBER, BOTTOM DRAWING NUMBER SHOWN ON
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED
	NEW PIPING TO BE PROVIDED
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED

GENERAL NOTES

1. REFERENCE THE SPECIFICATIONS FOR MATERIAL AND EQUIPMENT INSTALLATION STANDARDS.
2. THE PLUMBING INSTALLATION SHALL COMPLY WITH ALL STATE AND LOCAL CODES.
3. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
4. PROVIDE ALL OFFSETS AND FITTINGS AND MAKE CONNECTION TO SITE UTILITIES.
5. CONCEAL PIPING ABOVE CEILINGS, WITHIN WALLS OR CHASES EXCEPT IN MECHANICAL ROOMS OR AS SPECIFICALLY NOTED.
6. PROVIDE ACCESS DOOR / PANEL FOR ALL VALVES CONCEALED IN WALLS OR ABOVE NON-ACCESSIBLE CEILINGS.
7. SLEEVE ALL PENETRATIONS THROUGH WALLS, CEILINGS AND FLOORS. SLEEVE AND / OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS WITH UL LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
8. FLASH AND COUNTER-FLASH ROOF PENETRATIONS.
9. WHEN BEAM SLEEVE PENETRATIONS ARE NECESSARY, COORDINATE PENETRATIONS WITH ALL TRADES, THE ARCHITECT AND THE STRUCTURAL ENGINEER. WRITTEN PERMISSION SHALL BE OBTAINED FROM THE STRUCTURAL ENGINEER BEFORE ANY PENETRATIONS ARE MADE.
10. PROVIDE FOUNDATION PAD PENETRATION SLEEVES. ALLOW 1" MINIMUM CLEARANCE BETWEEN SLEEVE INSIDE SURFACE AND PIPE EXTERIOR.
11. SEE ARCHITECTURAL DRAWINGS FOR FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
12. PROVIDE AUTOMATIC TRAP PRIMERS FOR ALL FLOOR DRAINS.
13. PROVIDE AN AIR GAP, WHEN REQUIRED BY CODE, SERVING INDIVIDUAL FIXTURES, DEVICES, APPLIANCES AND APPARATUS.
14. ALL EXPOSED PIPE AND FITTINGS IN FINISHED AREA'S SHALL BE CHROME PLATED.
15. MOUNT HOSE BIBBS 24" ABOVE FINISHED GRADE. PROVIDE EACH HOSE BIBBS WITH ISOLATION VALVE.
16. PROVIDE CLEANOUTS IN ACCORDANCE WITH ALL STATE AND LOCAL CODES. INSTALL CLEANOUT WITH COVER FLUSH TO FINISH SURFACE.
17. COORDINATE EXACT FLOOR DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS. SET FLOOR DRAINS BELOW FINISHED FLOOR TO ALLOW FOR FLOOR SLOPING TO THE DRAIN.
18. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUNNING OVER PANELS SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
19. ALL WALL MOUNTED LAVATORIES, WATER COOLERS AND OTHER WALL MOUNTED FIXTURES SHALL BE ATTACHED TO FLOOR MOUNTED CARRIER DESIGNED TO WITHSTAND A VERTICAL LOAD OF 250 POUNDS ON THE FRONT OF THE FIXTURE.
20. PROVIDE SANITARY WASTE, VENT, DOMESTIC WATER, ETC. ROUGH-IN AND MAKE FINAL CONNECTIONS (TO INCLUDE PROVIDING ALL NECESSARY RELATED STOPS, VALVES, TRAPS, ETC. AND MAKE READY FOR USE) TO ALL EQUIPMENT, WHETHER FURNISHED BY THIS CONTRACTOR OR FURNISHED BY OTHERS.
21. INSTALL ISOLATION / SHUT-OFF VALVES AT ALL MAIN RISERS AND MAIN BRANCH TAKEOFFS, TO PERMIT ISOLATION OF PIPING SECTIONS OR ENTIRE SYSTEM.
22. PROVIDE RIGID SUPPORT SWAY BRACING AT ALL CHANGES IN DIRECTION GREATER THAN 45 DEGREE ON PIPING 4" AND LARGER.
23. PROVIDE WATER HAMMER ARRESTOR ON ALL COLD AND HOT WATER LINES SERVING FIXTURES USING FLUSH VALVES, SOLENOID VALVES OR QUICK CLOSING DEVICES. ARRESTORS SHALL BE SIZED IN ACCORDANCE WITH P.D.I. STANDARDS FOR THE TOTAL NUMBER OF FIXTURES SERVED.
24. ALL PIPING SHALL BE PROTECTED FROM THE INTRUSION OF WATER, DUST, DIRT, DEBRIS, ETC. WHILE STORED ON SITE AND DURING CONSTRUCTION.
25. ALL EXTERIOR HARDWARE SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

SHEET INDEX

SHEET NUMBER	SHEET NAME
P-000	LEGEND - PLUMBING
P-100	SITE PLAN - PLUMBING
P-201	LEVEL 1 - FLOOR PLAN - GRAVITY
P-203	ROOF PLAN - GRAVITY
P-301	LEVEL 1 - FLOOR PLAN - PRESSURE
P-501	RISER DIAGRAM - PRESSURE
P-502	RISER DIAGRAM - GRAVITY
P-601	SCHEDULES - PLUMBING
P-801	DETAILS - PLUMBING
P-802	DETAILS - PLUMBING

PLUMBING PIPING SCHEDULE

TYPE / LOCATION	COLD WATER	HOT WATER	DRAIN, WASTE & VENT	CONDENSATE WASTE	COMPRESSED AIR	LP GAS
ABOVE GROUND	CPVC	CPVC	PVC	PVC	TYPE 'L' COPPER	BLACK STEEL
BELOW GROUND	CPVC	CPVC	PVC	PVC	---	BLACK STEEL
EXPOSED (PUBLIC)	TYPE 'L' COPPER	TYPE 'L' COPPER	DWV COPPER	DWV COPPER	TYPE 'L' COPPER	BLACK STEEL
AREA UNDERGROUND SUBJECT TO STRESS (THRU FOOTING)	STEEL	STEEL	DUCTILE IRON	STEEL	---	BLACK STEEL

NOTES:
1. INSULATE THE FOLLOWING PIPING SYSTEMS WITH 1" THICK INSULATION.
   A. HOT WATER PIPING (FIBERGLASS WITH ASJ)
   B. CONDENSATE WASTE PIPING (CLOSED CELL FOAM)

FIXTURE CONNECTION SCHEDULE

MARK	DESCRIPTION	WASTE	TRAP	VENT	CW	HW
WC-1	WATER CLOSET, TANK TYPE	4"	INTEG.	2"	1/2"	---
L-1,2	LAVATORY	2"	2"	2"	1/2"	1/2"
S-1,2,3,4	SINK	2"	2"	2"	1/2"	1/2"
MS-1,2	MOP SINK	3"	3"	2"	1/2"	1/2"
EWC-1	ELECTRIC WATER COOLER	2"	2"	2"	1/2"	---
SH-1,2	SHOWER	2"	2"	2"	1/2"	1/2"
HB-1	HOSE BIBB	---	---	---	3/4"	---
WH-1	WALL HYDRANT	---	---	---	3/4"	---
ES-1	EMERGENCY SHOWER	---	---	---	1-1/4"	---
FD-1	FLOOR DRAIN	3"	3"	2"	---	---
TD-1	TRENCH DRAIN	4"	4"	2"	---	---
WM-1	WASHING MACHINE BOX	2"	2"	2"	1/2"	1/2"
OB-1	OUTLET BOX	---	---	---	1/2"	---

NOTES:
1. MAKE FINAL PIPE CONNECTIONS FROM BRANCH OR MAIN TO EACH FIXTURE OR DEVICE USING PIPE SIZE(S) AS PER THIS CHART. IF PIPE SIZE IS NOT SHOWN ON PIPING DRAWINGS.

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HERNANDO COUNTY FIRE STATION #5

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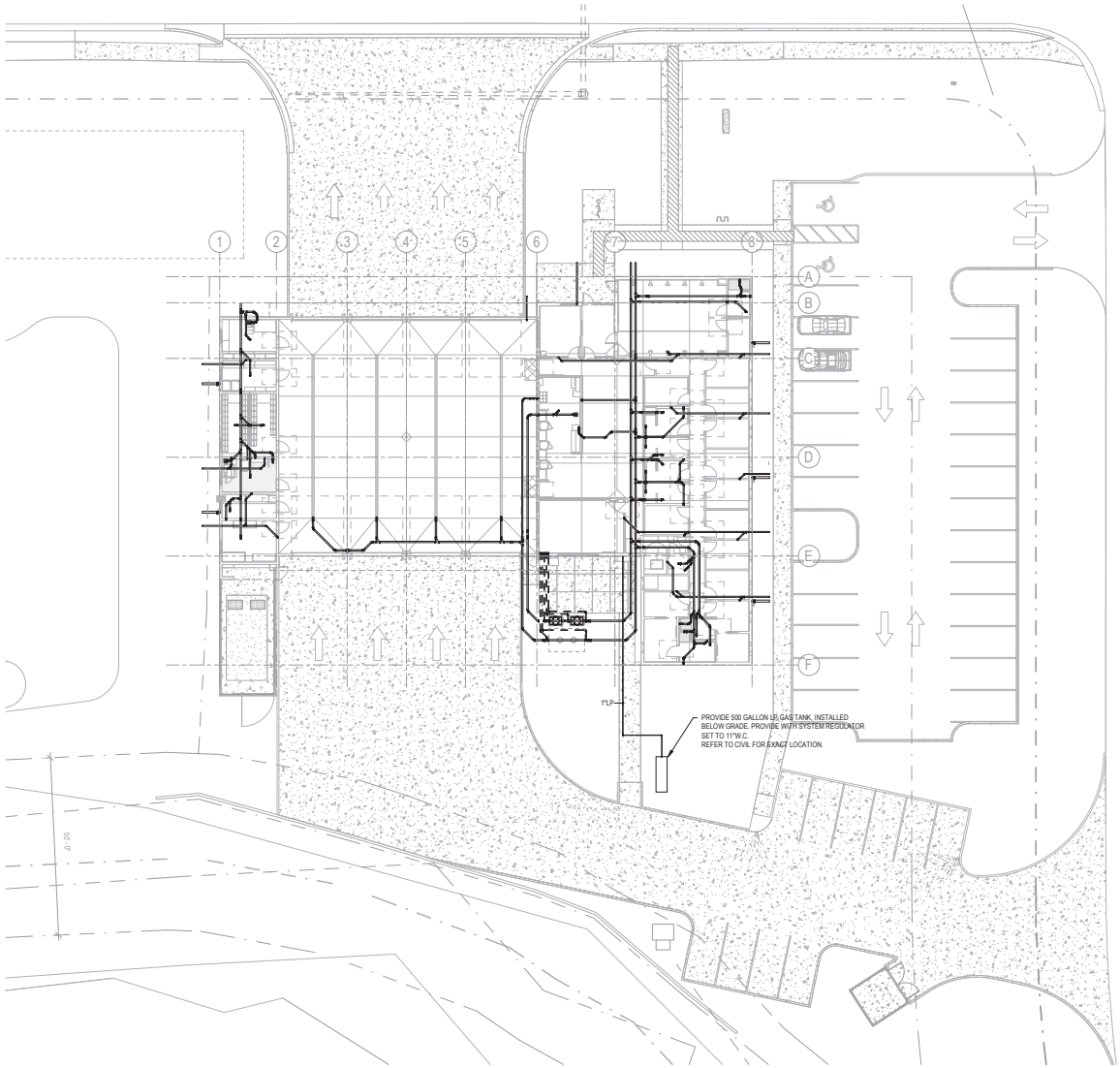
LEGEND - PLUMBING

P-000



1 SITE PLAN - PLUMBING
1/16" = 1'-0"

GENERAL NOTES

A. XXX

KEY NOTES

NUMBER	NOTES

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HERNANDO COUNTY FIRE STATION #5

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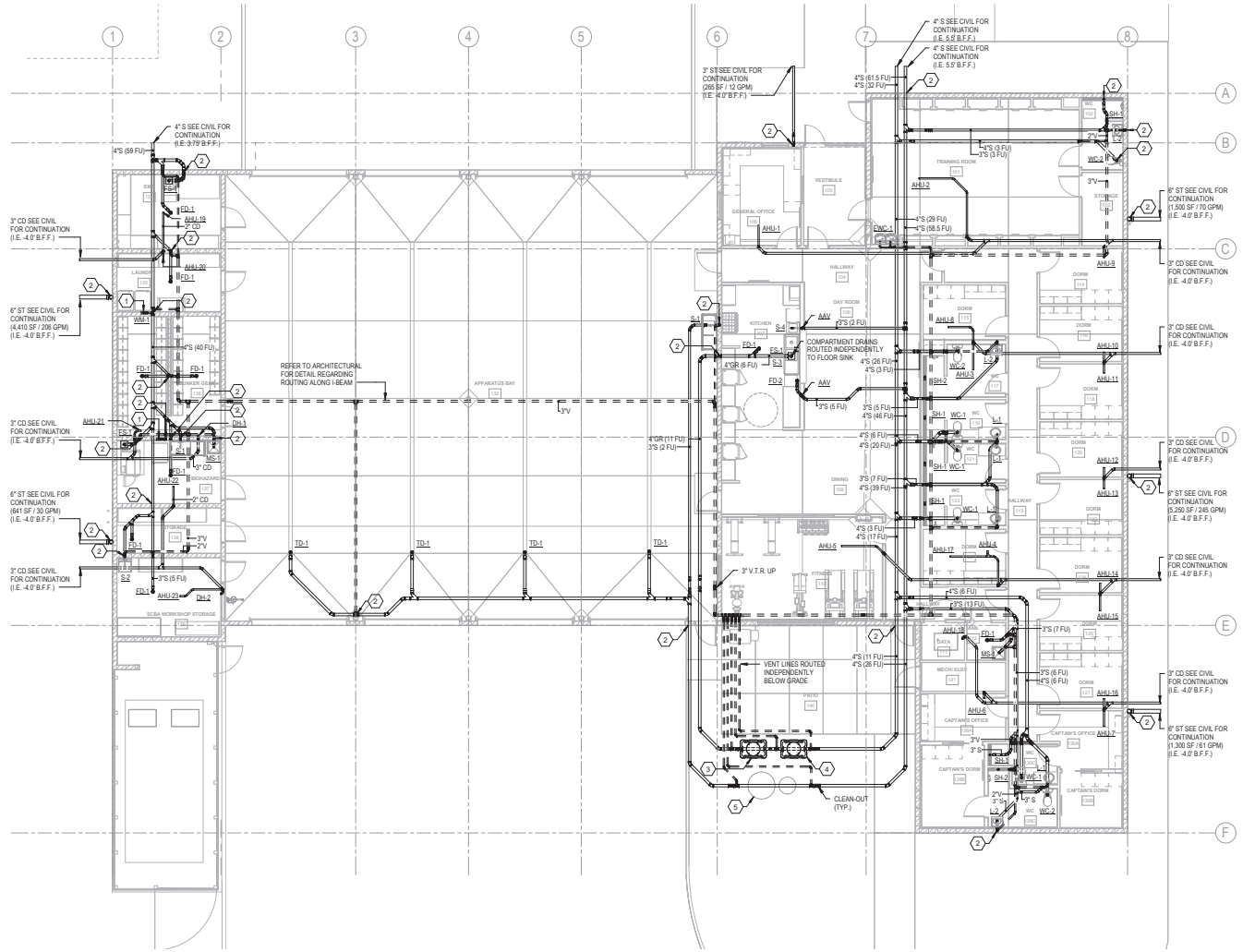
SITE PLAN - PLUMBING

P-100



1 LEVEL 1 - FLOOR PLAN - GRAVITY
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

NUMBER	NOTES
1	PROVIDE LINT INTERCEPTOR IN DRAIN LINE (B.O.D. FILTROL 160). REFER TO P-902 DETAIL C FOR INSTALLATION REQUIREMENTS.
2	COORDINATE PIPE ROUTING AND ELEVATION, AND ANY REQUIRED PENETRATIONS WITH FOOTER.
3	PROVIDE NEW 109 GALLON SOLIDS & 125 GALLON LIQUID CAPACITY SOLIDS INTERCEPTOR INSTALLED AND PIPED BELOW GRADE WITH SINGLE TELESCOPING MANHOLE EXTENSION AND TRAFFIC RATED MANHOLE COVER. (BASIS OF DESIGN: SCHIER PRODUCTS SI-75). REFER TO CIVIL FOR EXACT LOCATION.
4	PROVIDE NEW 75 GPM, 125 GALLON LIQUID & 861 LBS GREASE CAPACITY HYDROMECHANICAL GREASE INTERCEPTOR INSTALLED AND PIPED BELOW GRADE WITH SINGLE TELESCOPING MANHOLE EXTENSION AND TRAFFIC RATED MANHOLE COVER. (BASIS OF DESIGN: SCHIER PRODUCTS GB-75). REFER TO CIVIL FOR EXACT LOCATION.
5	PROVIDE NEW 55 GPM, 110 GALLON OIL CAPACITY OIL INTERCEPTOR INSTALLED AND PIPED BELOW GRADE WITH SINGLE FLANGED MANHOLE EXTENSION AND TRAFFIC RATED MANHOLE COVER. (BASIS OF DESIGN: HIGHLAND TANK HTC 550). REFER TO CIVIL FOR EXACT LOCATION.

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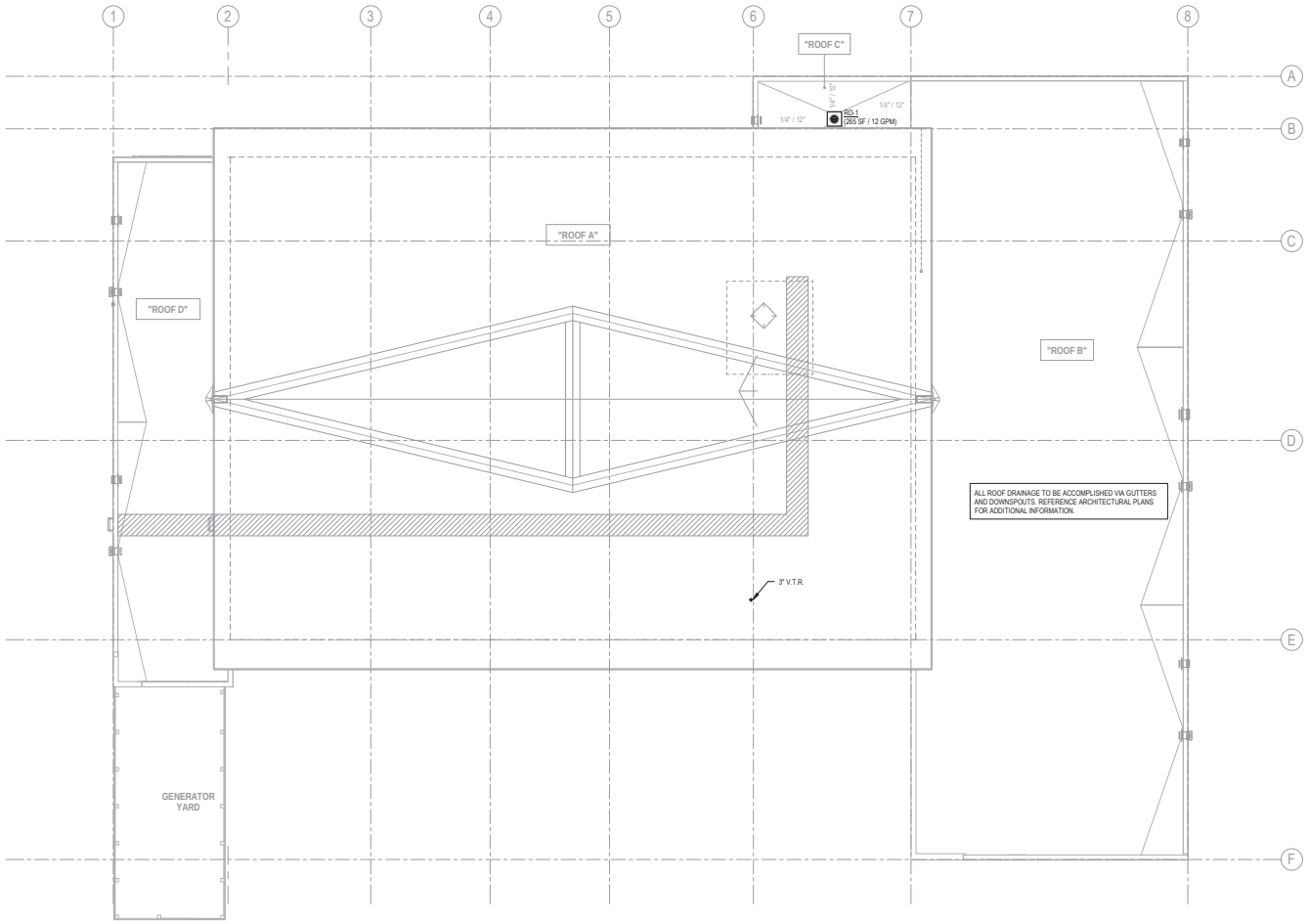
LEVEL 1 - FLOOR PLAN - GRAVITY

P-201



1 ROOF PLAN - GRAVITY
1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

NUMBER	NOTES

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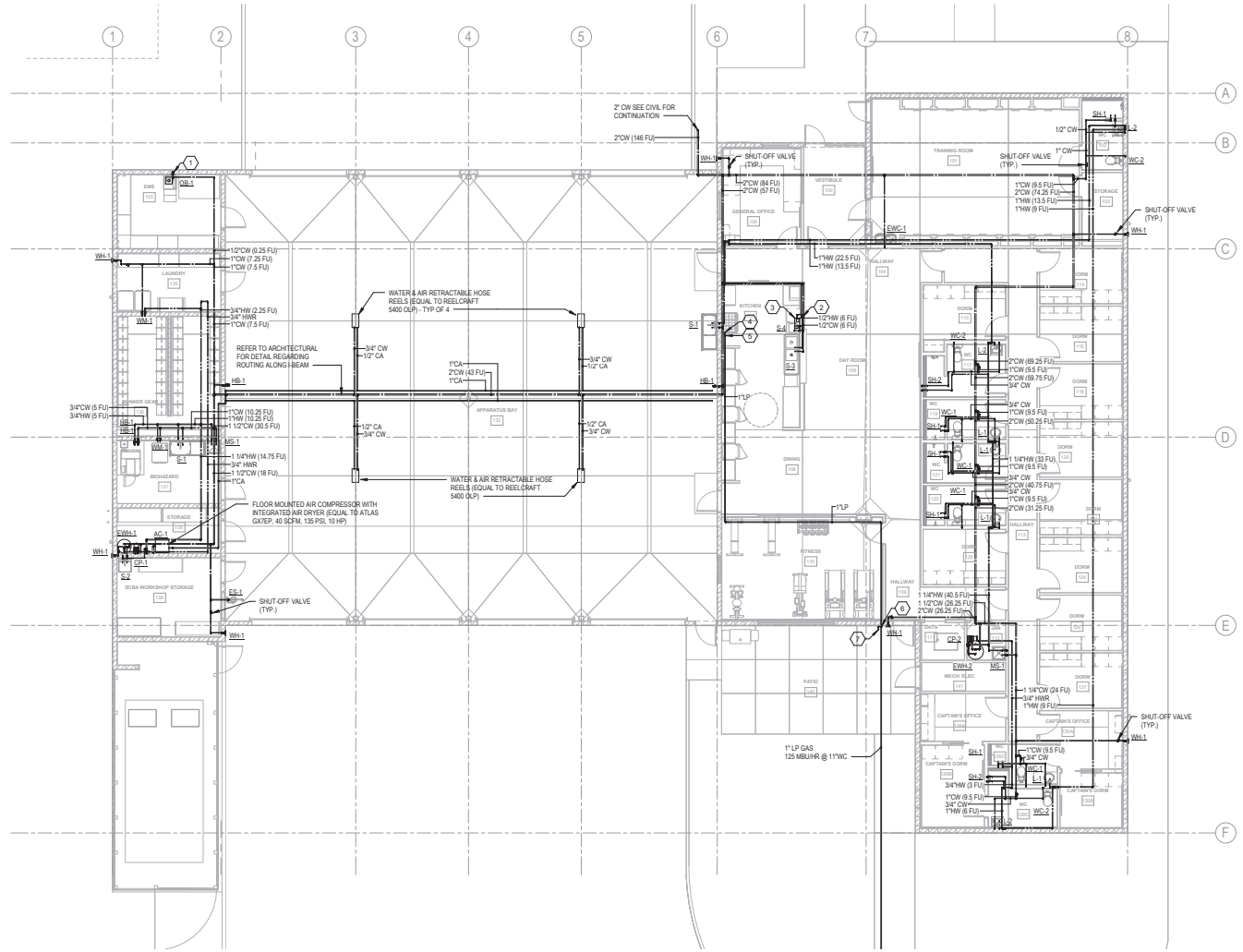
ROOF PLAN - GRAVITY

P-203



1 LEVEL 1 - FLOOR PLAN - PRESSURE
1/8" = 1'-0"

GENERAL NOTES

A. PROVIDE SHUT-OFF VALVE ON CW LINE AT ALL RESTROOMS, AND TOP OF DROPS TO WALL HYDRANTS AND HOSE BIBBS.

KEY NOTES

NUMBER	NOTES
1	ROUTE 1/2"CW INSIDE WALL AND EXTEND TO ICE MAKER. PROVIDE DUAL CHECK VALVE BACKFLOW DEVICE WITH ATMOSPHERIC PORT (EQUAL TO WATTS SD-3).
2	ROUTE 1/2" CWHW ON INSIDE WALL AND ROUTE UNDER COUNTER TO 2-COMP. SINK.
3	ROUTE 1/2"CW TO WALL MOUNTED WATER FILTER UNIT (EQUAL TO ANTUNES TAP-442 (9700850)) WITH INTERNAL 1/4 TURN SHUT-OFF VALVE, INLINE CHECK VALVE, AND PRESSURE GAUGE AND EXTEND 1/2"PW TO ICE MAKER.
4	PROVIDE LP GAS CONNECTION TO RANGE. PROVIDE GAS COCK, PRESSURE REGULATOR (EQUAL TO MAXITROL RV48 SERIES W/12406 VENT LIMITING DEVICE) AND EXTEND CSST TUBING FROM VALVE TO EQUIPMENT.
5	ROUTE 1"LP GAS DOWN ALONG WALL WITH SOLENOID VALVE INTERLOCKED WITH ANSUL SYSTEM. ENSURE VALVE IS ACCESSIBLE.
6	PROVIDE LP GAS COCK ON RISER PRIOR TO ANY EQUIPMENT CONNECTIONS.
7	PROVIDE LP GAS COCK, PRESSURE REGULATOR (EQUAL TO MAXITROL RV48 SERIES).

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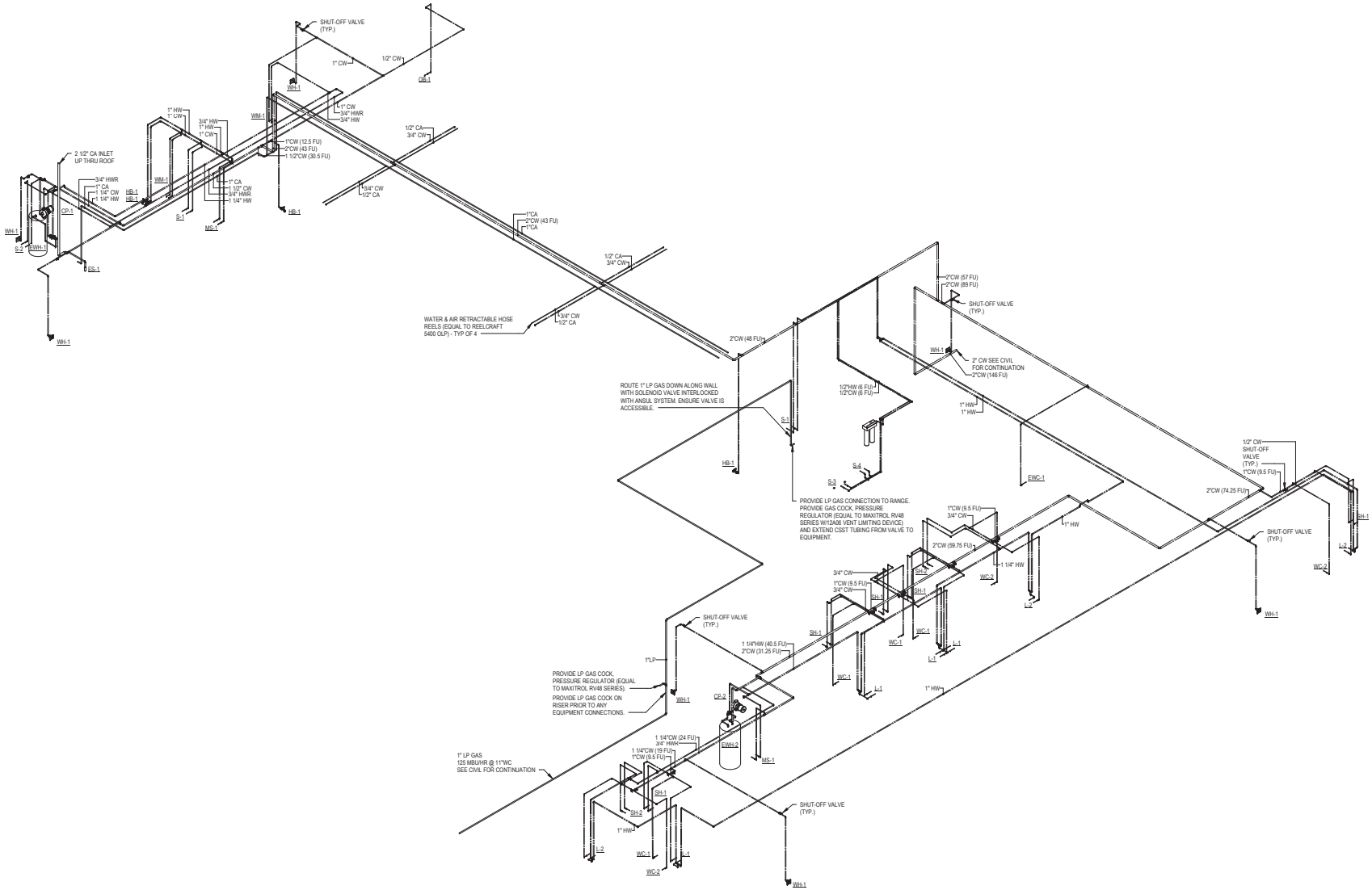
LEVEL 1 - FLOOR PLAN - PRESSURE

P-301



1 RISER DIAGRAM - PRESSURE

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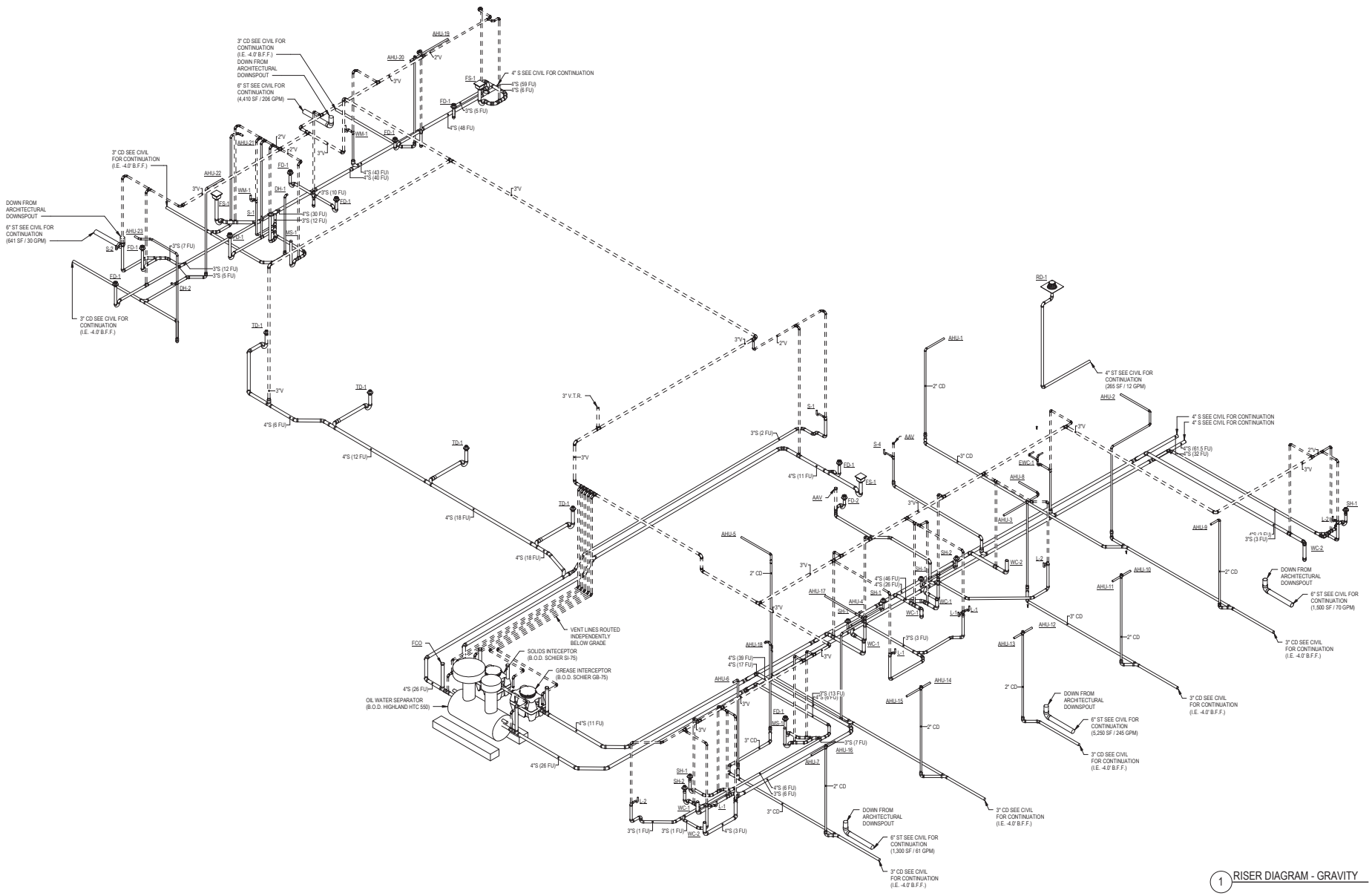
RISER DIAGRAM - PRESSURE

P-501



1 RISER DIAGRAM - GRAVITY

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RISER DIAGRAM - GRAVITY

P-502

PLUMBING PUMP SCHEDULE

MARK	LOCATION	MANUFACTURE	MODEL	GPM	RPM	HEAD (FT)	VOLTS	PHASE	DESCRIPTION
CP-1		TACO	007-SF5	1.35		9	115	1	HOT WATER CIRCULATING PUMP
CP-2		TACO	008-SF5	1.35		9	115	1	HOT WATER CIRCULATING PUMP

ELECTRIC WATER HEATER SCHEDULE

MARK	KW	RECOVERY @ 60°F	STORAGE TANK (GAL)	STORAGE TEMPERATURE	TANK DIA.	TANK HEIGHT	OPERATING WEIGHT	ELECTRICAL			MANUFACTURER	MODEL
								VOLTS	PHASE	HERTZ		
EWH-1	9		80	120	24-1/2"	59"	866	208	3	60	LOCHINVAR	HCX9080
EWH-2	15		119.9	120	28-1/4"	62-1/2"	1329	208	3	60	LOCHINVAR	HCX15119

AIR COMPRESSOR SCHEDULE

MARK	OPERATING PRESSURE	MAXIMUM PRESSURE	CAPACITY	RECEIVER CAPACITY	MOTOR SPECIFICATIONS		NOISE LEVEL	MANUFACTURER	MODEL NUMBER
					HP	VOLTAGE			
AC-1	135 PSI	150 PSI	40 SCFM	60 GAL	10 HP	208/3/60	66 dB(A)	ATLAS	GX7EP

1. PROVIDE INTEGRATED AIR DRYER
2. SYSTEM SHALL INCLUDE COMPRESSOR DISCHARGE CHECK VALVES (BRONZE CONSTRUCTION), SAFETY RELIEF VALVES, DISCHARGE FLEXIBLE CONNECTION, SOLENOID UNLOADER, ISOLATION VALVES, PRESSURE CONTROL SWITCHES, AND IN-LINE INTAKE FILTERS.

PLUMBING FIXTURE SCHEDULE

IMAGE	MARK	DESCRIPTION	FIXTURE		TRIM		FLUSH / FLOW (GPM)	FIXTURE COMMENTS
			MANUFACTURER	MODEL	MANUFACTURER	MODEL		
	WC-1	WATER CLOSET	CAROMA	989900			1.28/0.8 GPF	FLOOR MOUNTED, 15" HIGH, VITREOUS CHINA, 1.28/0.8 GPF, TOP MOUNTED TWO BUTTON DUAL FLUSH, TANK TYPE ELONGATED BOWL. PROVIDE WITH SOFT CLOSE DETACHABLE SEAT.
	WC-2	WATER CLOSET	CAROMA	989900			1.28/0.8 GPF	FLOOR MOUNTED, 16.5" HIGH, VITREOUS CHINA, 1.28/0.8 GPF, TOP MOUNTED TWO BUTTON DUAL FLUSH, TANK TYPE ELONGATED BOWL. PROVIDE WITH SOFT CLOSE DETACHABLE SEAT.
	L-1	LAVATORY	AMERICAN STANDARD	0497.300	AMERICAN STANDARD	6114.115.002	0.5 GPM	UNDERMOUNT VITREOUS CHINA SINGLE HOLE LAVATORY. MANUAL SINGLE LEVER FAUCET WITH 0.5 GPM LAMINAR FLOW CONTROL, AND METAL POP-UP DRAIN. PROVIDE ASSE 1070 MIXING VALVE SET TO 110° F. WATTS LFUSG-B. MIXING VALVE SHALL BE HARD PIPED TO STOPS. FLEXIBLE CONNECTIONS MAY BE USED FROM MIXING VALVE TO FAUCET.
	L-2	LAVATORY (ACCESSIBLE)	AMERICAN STANDARD	0356.421	AMERICAN STANDARD	6114.115.002	0.5 GPM	WALL HUNG VITREOUS CHINA SINGLE HOLE LAVATORY FOR CONCEALED ARMS SUPPORT. MANUAL FAUCET WITH 0.5 GPM LAMINAR FLOW CONTROL, AND METAL POP-UP DRAIN. CONCEALED ARM HANGER TO BE WATTS WCA-411. PROVIDE ASSE 1070 MIXING VALVE SET TO 110° F. WATTS LFUSG-B. MIXING VALVE SHALL BE HARD PIPED TO STOPS. FLEXIBLE CONNECTIONS MAY BE USED FROM MIXING VALVE TO FAUCET. PROVIDE PRE-CUT TRUBRO LAV SHIELD TO COVER STOPS, P-TRAP, CONTROLS, RECEPTACLE, AND MIXING VALVE.
	S-1	SCULLERY SINK	JUST MFG	SB-136-24R	JUST MFG	JS-47-TGSA	1.0 GPM	TYPE 304 18-8 STAINLESS STEEL 36" X 24" X 12" DEEP. INTERIOR AND TOP SURFACES SHALL BE POLISHED TO A BRUSHED FINISH. FAUCET SHALL BE GOOSENECK TYPE WITH SWIVEL SPOUT AND 6" WRIST BLADES. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO COMPLETE INSTALLATION.
	S-2	LAUNDRY TUB	FIAT	L-7	JUST MFG	JS-47-TGSA	1.0 GPM	MOLDED STONE 20" X 17" X 11" DEEP. FAUCET SHALL BE GOOSENECK TYPE WITH SWIVEL SPOUT AND 6" WRIST BLADES. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO COMPLETE INSTALLATION. 1/2" CW, 1/2"HW, 1-1/2" SAN.
	S-3	TWO COMPARTMENT KITCHEN SINK	ADVANCE TABCO	93-22-40-24R	ADVANCE TABCO	K-1	1.0 GPM	16 GA TYPE 304 STAINLESS STEEL 20" X 20" X 12" DEEP TWO COMPARTMENT FREE STANDING SINK WITH WELDED SIDE CROSS-BRACING AND 8" HIGH SPLASH. PROVIDE WITH DUAL LEVER SPLASH MOUNT FAUCET. PROVIDE WITH INSINKERATOR BADGER 1. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO COMPLETE INSTALLATION.
	S-4	HAND SINK (ACCESSIBLE)	JUST MFG	JHCL-ADA-23520-S-CP	JUST MFG	JHCL-ADA-23520-S-CP	1.0 GPM	TYPE 304 18-8 STAINLESS STEEL 16-1/2" X 14" HAND SINK. INTERIOR AND TOP SURFACES SHALL BE POLISHED TO A BRUSHED FINISH. FAUCET SHALL BE GOOSENECK TYPE WITH SWIVEL SPOUT, AND PLUG-IN SENSOR FAUCET. PROVIDE STOPS, SUPPLIES, TRAP, ETC., TO COMPLETE INSTALLATION.
	EWC-1	BI-LEVEL ELECTRIC WATER COOLER - BOTTLE FILLER	ELKAY	LMABFTL8WSSK			8.0 GPH	WALL MOUNTED, PUSH BARS ON THE FRONT AND BOTH SIDES, STAINLESS STEEL BASINS, 120V. BOTTLE FILLING STATION & VERSATILE BI-LEVEL ADA COOLER, FILTERED, CHILLING CAPACITY OF 8.0 GPH. FEATURES SHALL INCLUDE HANDS FREE, GREEN TICKER, LAMINAR FLOW, ANTIMICROBIAL, REAL DRAIN. FURNISHED WITH FLEXI-GUARD SAFETY BUBBLER, ELECTRONIC BOTTLE FILLER SENSOR. MOUNT PER MANUFACTURE TO MEET ADA CODE REQUIREMENTS. PROVIDE FLOOR CARRIER STOP, SUPPLY TRAP, ETC., TO MAKE COMPLETE INSTALLATION.
	MS-1	MOP SINK	FIAT	MSB2424	FIAT	830-AA	2.5 GPM	FLOOR MOUNTED MOLDED STONE WITH STAINLESS STEEL CAP, 24"x24"x10" DRAIN BODY SHALL BE STAINLESS STEEL CAST INTEGRAL, AND SHALL PROVIDE FOR A CAULKED LEAD CONNECTION AND NOT LESS THAN 1" DEEP TO A 3" PIPE. PROVIDE WITH HOSE AND HOSE HOOK AND MOP BRACKET.
	WH-1	WALL HYDRANT	WOODFORD	B65				FREEZE PROOF ENCLOSED WALL ANTI-SIPHON WALL HYDRANT COMPLETE WITH BRONZE CASING, VACUUM BREAKER, ALL BRONZE INTERIOR PARTS AND NON TURNING OPERATING ROD WITH FREE FLOATING COMPRESSION CLOSURE VALVE. WATER BOX DOOR SHALL BE BRASS CASTING WITH CHROME FINISH AND OPERATING KEY.
	HB-1	HOSE BIBB	WOODFORD	24P-3/4				ANTI-SIPHON, VACUUM BREAKER PROTECTED WALL FAUCET
	WM-1	WASHING MACHINE SUPPLY AND DRAIN BOX	GUY GREY	MWB19				11"x9" RECESSED SUPPLY BOX WITH WALL FLANGE MANUFACTURED FROM 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH. FURNISH WITH SUPPLY VALVES AND 2" DRAIN OUTLET.
	OB-1	ICE MAKER SUPPLY BOX	GUY GREY	MIB2HAAB				4"x5" RECESSED SUPPLY BOX WITH WALL FLANGE MANUFACTURED FROM 18 GAUGE STEEL WITH WHITE POWDER COAT FINISH. FURNISH WITH 1/2"x1/4" COMPRESSION ANGLE VALVE. PROVIDE IN-LINE CHECK VALVE.
	FS-1	FLOOR SINK (4" DRAIN)	ZURN	Z-1901				12 x 12 ACID RESISTANCE ENAMAL FLOOR SINK WITH 3" OUTLET CONNECTION.
	FD-1	FLOOR DRAIN	ZURN	Z415B-P				EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, ADJUSTABLE LIGHT DUTY POLISHED NICKEL BRONZE ROUND STRAINER, NO-HUB OUTLET AND TRAP PRIMER CONNECTION.
	FD-2	FUNNEL DRAIN	ZURN	Z415E				EPOXY COATED CAST IRON BODY WITH ANCHOR FLANGE, WEEPHOLES, ADJUSTABLE LIGHT DUTY POLISHED NICKEL BRONZE ROUND STRAINER WITH FUNNEL INLET, NO-HUB OUTLET AND TRAP PRIMER CONNECTION.
	TD-1	TRENCH DRAIN	WATTS	DI-1A				TRENCH DRAIN WITH PRE-SLOPED BOTTOM, TRENCH SHALL HAVE DUCTILE IRON FRAMEWORK WITH WIDE HEAVY DUTY TRAFFIC RATED DUCTILE IRON GRATE. PROVIDE 4" BOTTOM OUTLET CONNECTION
	SH-1	SHOWER	AMERICAN STANDARD	TU184507			1.5 GPM	PROVIDE WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, FIXED SHOWER HEAD WITH SHOWER ARM, AND INTEGRAL SERVICE STOPS. PROVIDE SEPARATE VALVE ROUGH-IN R10000-UNWS. PROVIDE WITH INFINITY DRAIN S-AG 38 LINEAR SHOWER DRAIN WITH PVC CHANNEL AND 316L STAINLESS STEEL WEDGE WIRE GRATE.
	SH-2	SHOWER (ACCESSIBLE)	AMERICAN STANDARD	TU662.211			1.5 GPM	PROVIDE WITH PRESSURE BALANCING MIXING VALVE WITH LEVER HANDLE, FIXED SHOWER HEAD WITH SHOWER ARM, HAND HELD SHOWER WITH FLEXIBLE HOSE, IN-LINE VACUUM BREAKER, 24" SLIDE BAR, AND INTEGRAL SERVICE STOPS. PROVIDE SEPARATE VALVE ROUGH-IN R10700-UNWS. PROVIDE WITH INFINITY DRAIN S-AG 38 LINEAR SHOWER DRAIN WITH PVC CHANNEL AND 316L STAINLESS STEEL WEDGE WIRE GRATE.
	ES-1	EMERGENCY SAFETY SHOWER WITH EYE WASH	BRADLEY CORP	S19314				CORROSION-RESISTANT PVC PLASTIC COMBINATION SHOWER AND EYE/FACE WASH SHALL INCLUDE AN EYE/FACE WASH HEAD SHALL FEATURE INVERTED DIRECTIONAL LAMINAR FLOW WHICH ACHIEVES ZERO VERTICAL VELOCITY, SUPPLIED BY AN INTEGRAL 3.7 GPM FLOW CONTROL UNIT SHALL ALSO INCLUDE ABS PLASTIC SHOWERHEAD WITH 20 GPM FLOW CONTROL THE UNIT SHALL ALSO INCLUDE AN ABS PLASTIC 11" ROUND BOWL, STAINLESS STEEL SHOWER AND EYEWASH BALL VALVES EQUIPPED WITH STAINLESS STEEL BALL AND STEM, GREEN EPOXY FINISH, SCHEDULE 80 PVC 2 1/2" FLOOR FLANGE, SCHEDULE 80 PVC PLASTIC VERTICAL PIPING, UNIVERSAL SIGN.
	RD-1	ROOF DRAIN	WATTS	RD-100-B-K40				EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, PROVIDE WITH SUMP RECEIVER AND DUCTILE IRON LOW DOME AND NO HUB OUTLET.

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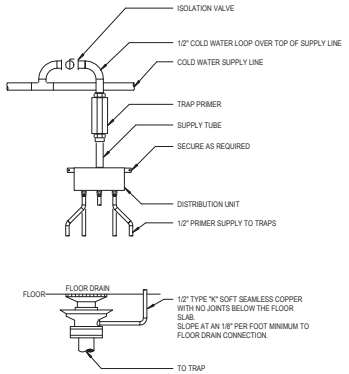
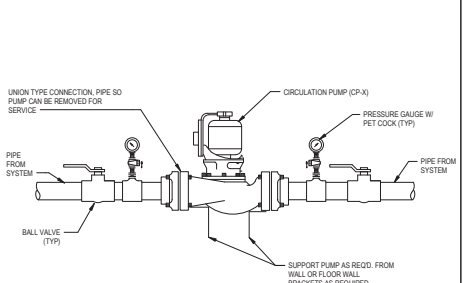
SCHEDULES - PLUMBING

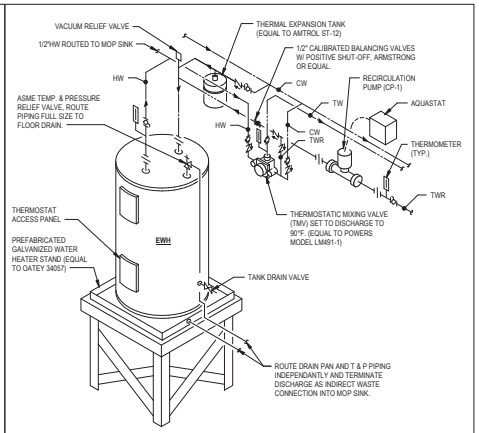
P-801



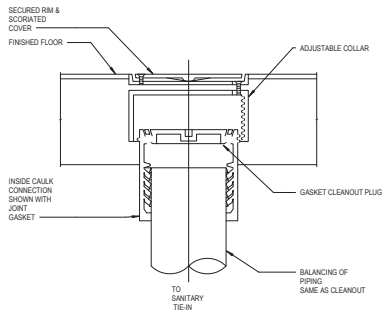
TYPICAL TRAP PRIMER CONNECTION | E



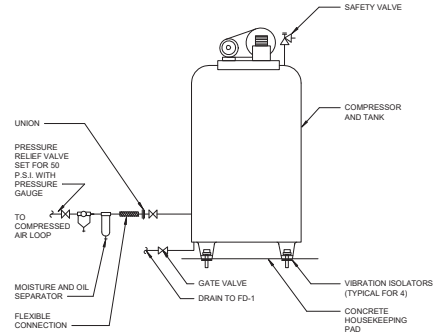
IN-LINE CIRCULATION PUMP | C



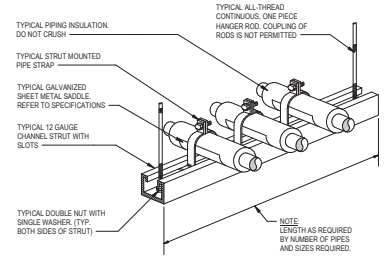
ELECTRIC WATER HEATER | A



FLOOR CLEANOUT DETAIL | F



AIR COMPRESSOR DETAIL | D



NOTE:

1. REFER TO SPECIFICATION SECTION 220529 AND FLOOR PLANS
2. SPECIFIED HANGER ROD, STRUT, NUTS, WASHERS AND PIPE STRAPS SHALL BE OG GALVANIZED PLATED MATERIALS.

TRAPEZE PIPING HANGER | B

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

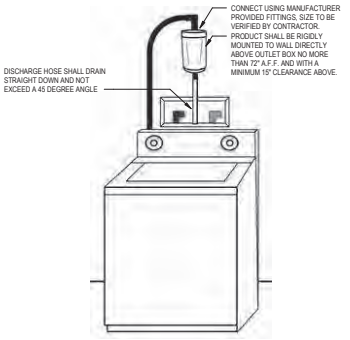
Project number
1932

DISTRIBUTION

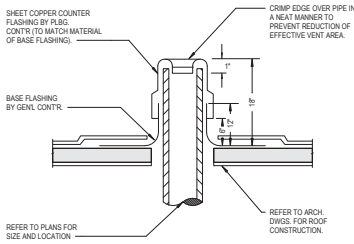
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

DETAILS - PLUMBING

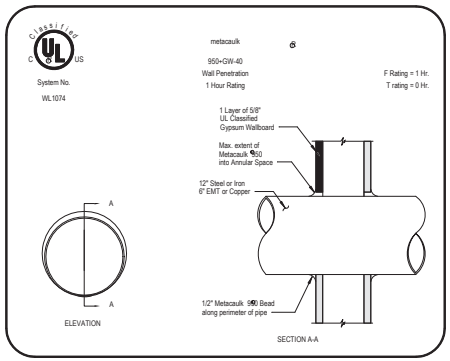
P-901

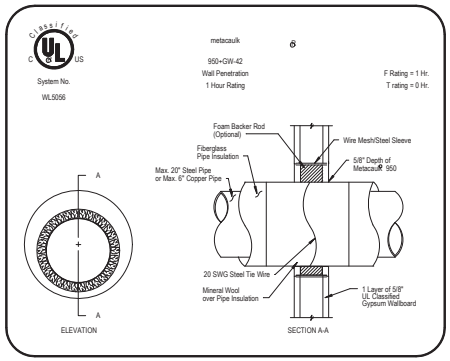


WASHING MACHINE LINT INTERCEPTOR | C

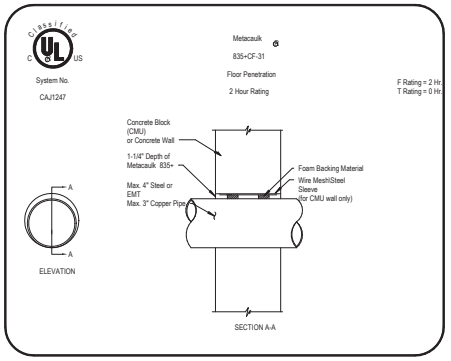


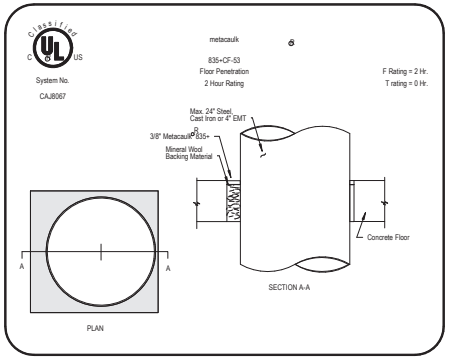
PLUMBING VENT THROUGH ROOF DETAIL | D





PIPE - WALL PENETRATION DETAIL | B





PIPE - CONCRETE PENETRATION DETAIL | A

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
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DETAILS - PLUMBING

P-902

MISCELLANEOUS

SYMBOL	DESCRIPTION
3P/60A 3R NF	DISCONNECT SWITCH, NON-FUSIBLE 3 POLE, 60 AMP, NF: NON-FUSED, 3R: NEMA 3R ENCLOSURE
3P/60A 3R F.50A	DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, FUSED AT 50 AMPS, 3R: NEMA 3R ENCLOSURE
3P/60A 3R Nx	COMBINATION STARTER / DISCONNECT SWITCH, FUSIBLE 3 POLE, 60 AMP, NEMA x SIZE, 3R: NEMA 3R ENCLOSURE
	MAGNETIC MOTOR STARTER
	ENCLOSED CIRCUIT BREAKER, AS INDICATED
VFD	VFD-RATED, REMOTE DISCONNECT SWITCH WITH EARLY-BREAK, AUXILIARY CONTACTS FOR VFD DECELERATE-TO-STOP SIGNAL. CONNECT CONTROL WIRING TO ASSOCIATED VFD (AS REQUIRED).
	PANELBOARD, 480 / 277V
	PANELBOARD, 208 /120V
MH	MANHOLE
HH	HANDHOLE
SPD	SURGE PROTECTION DEVICE
	ELECTRICAL METER
TX	TRANSFORMER
	MOTOR CONNECTION, HP: DENOTES HORSEPOWER RATING
	EXHAUST FAN
	GROUND BUS BAR
	PUSHBUTTON
	3/4" PLYWOOD TELEPHONE BACKBOARD
	CONCRETE ENCASED DUCTBANK
	HOMERUN TO PANEL INDICATED NUMBER OF ARROWS INDICATE NUMBER OF CIRCUITS
	WIRE IN CONDUIT CONCEALED, #12 AWG SIZE WIRE IN 1/2" CONDUIT MINIMUM UNLESS OTHERWISE NOTED
	WIRE IN CONDUIT CONCEALED BELOW SLAB OR GRADE
	CONDUIT EXPOSED
	FLEXIBLE CONDUIT
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB

RECEPTACLE(S)

SYMBOL	DESCRIPTION
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	DUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. AUTOMATIC SWITCHED RECEPTACLE
	QUADRUPLEX RECEPTACLE, 20 AMP, 120V U.O.N. HALF-AUTOMATIC SWITCHED RECEPTACLE
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N.
	QUADRAPLEX RECEPTACLE, 20 AMP, 120V U.O.N. MOUNTED AT 48" UNLESS NOTED OTHERWISE
	SINGLE RECEPTACLE, 20 AMP, 120V U.O.N.
	GFI - TYPE DUPLEX RECEPTACLE (WP: DENOTES WEATHERPROOF COVER)
	GFI - TYPE DOUBLE DUPLEX RECEPTACLE
	GFI - DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	GFI - DOUBLE DUPLEX RECEPTACLE MOUNTED AT 48" UNLESS OTHERWISE NOTED
	SPECIAL PURPOSE RECEPTACLE (NEMA RATING AS INDICATED)
	QUADRAPLEX RECEPTACLE, TICK MARKS DENOTE EMERGENCY (TYPICAL ALL RECEPTACLES)
	DUPLEX RECEPTACLE - HALF SWITCHED
	DUPLEX RECEPTACLE - CEILING MOUNTED
IG	DUPLEX RECEPTACLE WITH ISOLATED GROUND
	DUPLEX RECEPTACLE - FLOOR MOUNTED
PP	POWER POLE
J	JUNCTION BOX - CEILING MOUNTED
J	JUNCTION BOX - WALL MOUNTED
J	JUNCTION BOX - FLOOR / GROUND MOUNTED
B	DOOR BELL / BUZZER

LIGHTING

SYMBOL	DESCRIPTION
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED NORMAL POWER
	CEILING MOUNTED 2'x2' / 2'x4' LUMINAIRE - RECESSED EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE RECESSED OR SURFACE MOUNTED - EMERGENCY POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - NORMAL POWER
	CEILING MOUNTED 1'x4' LUMINAIRE PENDANT MOUNTED - EMERGENCY POWER
	STRIP LUMINAIRE - NORMAL POWER
	STRIP LUMINAIRE - EMERGENCY POWER
	DOWNLIGHT LUMINAIRE - NORMAL POWER
	DOWNLIGHT LUMINAIRE - EMERGENCY POWER
	WALL MOUNTED LUMINAIRE - NORMAL POWER
	WALL MOUNTED LUMINAIRE - EMERGENCY POWER
	CEILING FAN
	TRACK LIGHTING WITH LUMINAIRE
	UNDERCOUNTER LUMINAIRE
	FLOOD LIGHT LUMINAIRE
	POLE LIGHT LUMINAIRE
	BOLLARD LUMINAIRE
	STEP LIGHT LUMINAIRE
	EMERGENCY BATTERY LIGHT UNIT
	EXIT LIGHT - SINGLE FACE WITH DIRECTIONAL ARROW
	EXIT LIGHT - DOUBLE FACE
	EXIT LIGHT - WALL MOUNTED

GENERAL NOTES

1. THE ELECTRICAL CONTRACT DOCUMENTS ARE SCHEMATIC IN NATURE AND INDICATE THE GENERAL CONFIGURATION OF SYSTEMS AND WORK. EXAMINE ARCHITECTURAL, INTERIOR DESIGN, CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, TECHNOLOGY, AND FOOD SERVICE DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND REQUIREMENTS OF DEVICES, EQUIPMENT, LUMINARIES, AND SYSTEMS. CONTENT INDICATED ON THE SPECIFICATIONS BUT NOT THE DRAWINGS, OR CONTENT INDICATED ON THE DRAWINGS BUT NOT THE SPECIFICATIONS, SHALL BE INTERPRETED AS BEING PRESENT ON BOTH.
2. PROVIDE ALL DEVICES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED FOR A COMPLETE, FUNCTIONAL, AND CODE-COMPLIANT ELECTRICAL SYSTEM. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CODES AND STANDARDS INDICATED ON THIS SHEET.
3. ALL DEVICES, EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE NEW, AND, WHERE APPLICABLE, SHALL BE LISTED BY U.L. OR ANOTHER APPROVED ELECTRICAL TESTING AGENCY.
4. COORDINATE LOCATIONS AND REQUIREMENTS OF EQUIPMENT REQUIRING ELECTRICAL SERVICE (I.E. PRINTERS, APPLIANCES, MOTORIZED PROJECTION SCREENS, MOTORIZED SHADES, ELEVATORS, TOOLS, ETC.) WITH APPROVED SHOP DRAWINGS, SPECIFICATION SHEETS, MANUFACTURER'S INSTALLATION LITERATURE, AND EQUIPMENT NAMEPLATE DATA, PRIOR TO ROUGH-IN AND INSTALLATION. PROVIDE ELECTRICAL CONNECTIONS (AS REQUIRED).
5. BID SHALL INCLUDE COSTS ASSOCIATED WITH BACKFILLING, CORE DRILLING, DIRECTIONAL BORING, EXCAVATING, AND REPAIRING OF SURFACES.
6. PAY ALL FEES, TAXES, AND OTHER COSTS ASSOCIATED WITH THE WORK ENCOMPASSED BY THE ELECTRICAL CONTRACT DOCUMENTS. PROVIDE ALL REQUIRED NOTICES AND OBTAIN ALL REQUIRED PERMITS.
7. PROVIDE COOPERATION WITH OTHER TRADES AND PROVIDE ANY INFORMATION REQUIRED TO FACILITATE THE COMPLETION OF THEIR WORK. COORDINATE DEVICE AND EQUIPMENT LOCATIONS AND MOUNTING HEIGHTS WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE CONDUIT ROUTING WITH OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
8. COORDINATE ALL REQUIREMENTS WITH THE LOCAL UTILITY PRIOR TO ROUGH-IN AND INSTALLATION. COORDINATE LOCATIONS OF UTILITY HANDHOLES, AERIAL UTILITY TRANSFORMERS, AND/OR PAD-MOUNTED UTILITY TRANSFORMERS.
9. PROVIDE TEMPORARY ELECTRICAL SERVICE(S) FOR USE BY OTHER TRADES DURING PROJECT CONSTRUCTION. UPON COMPLETION OF THE PROJECT, THE TEMPORARY ELECTRICAL SERVICE(S) SHALL BE REMOVED.
10. WITHIN THIRTY (30) DAYS OF SYSTEM ACCEPTANCE, PROVIDE RECORD DRAWINGS TO THE OWNER. DRAWINGS SHALL BE COMPRISED OF SINGLE-LINE DIAGRAMS AND FLOOR PLANS INDICATING THE LOCATIONS AND AREAS SERVED FOR ALL DISTRIBUTION.
11. WITHIN THIRTY (30) DAYS OF SYSTEM ACCEPTANCE, PROVIDE AN OPERATING MANUAL AND MAINTENANCE MANUAL TO THE OWNER. THE MANUALS SHALL INCLUDE THE FOLLOWING INFORMATION: SUBMITTAL DATA WITH EQUIPMENT RATINGS AND SELECTED OPTIONS, OPERATION AND MAINTENANCE MANUALS FOR EQUIPMENT REQUIRING MAINTENANCE, NAMES AND ADDRESSES OF A MINIMUM OF ONE (1) QUALIFIED SERVICE AGENCY.
12. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL WALL-MOUNTED ELECTRICAL DEVICES AND EQUIPMENT WITH THE ARCHITECTURAL DRAWINGS, GENERAL CONTRACTOR, CASEWORK/MILLWORK, AND OTHER TRADES PRIOR TO ROUGH-IN AND INSTALLATION.
13. EQUIPMENT LOCATIONS SHALL SATISFY THE WORKING CLEARANCE REQUIREMENTS AND DEDICATED SPACE REQUIREMENTS OF NEC ARTICLE 110. PROVIDE SHOP DRAWINGS, DEMONSTRATING COMPLIANCE AND INTER-DISCIPLINARY COORDINATION, FOR ENGINEERING REVIEW.
14. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, AND ELEVATIONS FOR LOCATIONS AND/OR MOUNTING HEIGHTS OF LUMINAIRES LOCATED AT CEILINGS AND/OR WALLS. VERIFY THAT CEILING-MOUNTED LUMINAIRES ARE SUITABLE FOR THE FINISHED CEILING SYSTEM INDICATED AND PROVIDE ACCORDINGLY. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF WALL-MOUNTED LUMINAIRES WITH CASEWORK, FURNITURE, AND ARCHITECTURAL ELEMENTS. WHERE ARCHITECTURAL REFLECTED CEILING PLANS INDICATE FIRE-RATED CEILING SYSTEMS, PROVIDE UL-LISTED LUMINAIRE ENCLOSURES (AS REQUIRED).
15. PROVIDE A COMPLETE GROUNDING SYSTEM IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE NEC AND SPECIFICATIONS. BOND SERVICE ENTRANCE ELECTRICAL EQUIPMENT TO BUILDING STEEL, GROUND RODS, METAL WATER MAINS, LIGHTNING PROTECTION SYSTEM GROUNDING ELECTRODES (WHERE PRESENT), AND TELECOMMUNICATIONS SYSTEM GROUNDING ELECTRODES (AS REQUIRED). EQUIPMENT GROUNDING SHALL BE OF THE WIRE TYPE.
16. MINIMUM CONDUIT SIZE SHALL BE 3/4".
17. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. ALL FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE INSTALLED WITHIN CONDUIT, UNLESS OTHERWISE INDICATED. ALL CONDUCTORS SHALL BE COPPER, UNLESS OTHERWISE INDICATED.
18. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH CIRCUIT. MULTI-WIRE BRANCH CIRCUITS SHALL BE PROHIBITED.
19. CONNECTIONS TO TRANSFORMERS AND MECHANICAL EQUIPMENT SHALL BE MADE WITH FMC OR LFMC, UNLESS OTHERWISE INDICATED.
20. WHERE PRACTICABLE, CONDUITS SHALL BE CONCEALED BELOW SLABS, WITHIN WALLS, AND ABOVE FINISHED CEILING SYSTEMS. WHERE CONDUITS ARE EMBEDDED WITHIN CONCRETE SLABS, COORDINATE CONDUIT SIZE LIMITATIONS AND SPACING REQUIREMENTS WITH THE STRUCTURAL DRAWINGS/ENGINEER PRIOR TO INSTALLATION.
21. SEAL ALL CONDUIT PENETRATIONS AT FIRE-RATED PARTITIONS. REFER TO DETAILS FOR FURTHER INFORMATION.
22. COORDINATE ALL CONDUIT PENETRATIONS WITH ARCHITECTURAL DRAWINGS, STRUCTURAL DRAWINGS, FIELD CONDITIONS, AND OTHER TRADES. PROVIDE SEALING FITTINGS TO PROHIBIT CONDENSATION AND/OR THE PASSAGE OF GASES OR VAPORS (AS REQUIRED).
23. INCREASE FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES AS REQUIRED IN ORDER TO MAINTAIN A MAXIMUM, CUMULATIVE VOLTAGE DROP OF 5% AT THE END LOAD. MAXIMUM VOLTAGE DROP SHALL BE DISTRIBUTED AS FOLLOWS: 3% FOR FEEDERS, 2% FOR BRANCH CIRCUITS. WHERE THE VOLTAGE DROP REQUIREMENTS OF THE LOCAL ENERGY CODE ARE MORE STRINGENT, THE REQUIREMENTS OF THE LOCAL ENERGY CODE SHALL TAKE PRECEDENCE. WHERE PHASE AND NEUTRAL CONDUCTOR SIZES ARE INCREASED FOR VOLTAGE DROP, THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONATELY.
24. PROVIDE ALL REQUIRED DISCONNECT SWITCHES, STARTERS, AND COMBINATION STARTER/DISCONNECT SWITCHES. MAKE CONNECTIONS TO ALL ELECTRICALLY-DRIVEN DEVICES AND EQUIPMENT PROVIDED BY THE MECHANICAL, PLUMBING, AND FIRE PROTECTION CONTRACTORS. EXAMINE EQUIPMENT NAMEPLATE RATINGS PRIOR TO ROUGH-IN AND INSTALLATION. PROVIDE OVERCURRENT PROTECTION IN ACCORDANCE WITH EQUIPMENT NAMEPLATE RATINGS. PROVIDE ALL POWER SUPPLIES, CONTROL TRANSFORMERS, RELAYS, AND OTHER ACCESSORIES REQUIRED TO FACILITATE THE PROPER OPERATION OF MECHANICAL EQUIPMENT AS DESCRIBED WITHIN THE MECHANICAL ENGINEER'S SEQUENCE OF OPERATIONS.
25. ALL INTERIOR ELECTRICAL EQUIPMENT SHALL BE OF NEMA 1 CONSTRUCTION, UNLESS OTHERWISE INDICATED. ALL EXTERIOR ELECTRICAL EQUIPMENT SHALL BE OF NEMA 3R CONSTRUCTION, UNLESS OTHERWISE INDICATED. EQUIPMENT RATINGS SHALL CORRESPOND TO THEIR INSTALLED ENVIRONMENTS.
26. ALL NEW AND/OR EXISTING PANELBOARDS AND SWITCHBOARDS WITHIN THE SCOPE OF THIS PROJECT SHALL BE PROVIDED WITH NEW, TYPEWRITTEN DIRECTORIES. CIRCUIT DESCRIPTIONS SHALL CONTAIN ROOM NAMES AND ROOM NUMBERS BASED UPON INSTALLED ROOM SIGNAGE.
27. PROVIDE PHENOLIC, ENGRAVED IDENTIFICATION PLACARDS AT ALL SWITCHBOARDS, SWITCHGEAR, PANELBOARDS, TRANSFORMERS, DISCONNECT SWITCHES, ENCLOSED CIRCUIT BREAKERS, CABINETS, AND AUTOMATIC TRANSFER SWITCHES. REFER TO DETAILS FOR FURTHER INFORMATION.
28. PROVIDE PHENOLIC, ENGRAVED IDENTIFICATION PLACARDS AT EACH CIRCUIT BREAKER WITHIN A DISTRIBUTION PANEL, SWITCHBOARD, OR SWITCHGEAR.
29. PROVIDE TYPEWRITTEN OR ENGRAVED PANEL AND CIRCUIT IDENTIFICATION AT DEVICE COVER PLATES.
30. PROVIDE HANDWRITTEN PANEL AND CIRCUIT IDENTIFICATION ON THE EXTERIORS OF ALL JUNCTION BOXES, PULL BOXES, AND WIREWAYS.

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTION
A	AMPERES
AC	ALTERNATING CURRENT
A/C	AIR CONDITIONING
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CATV	CABLE TELEVISION
CB	CRITICAL BRANCH
CIB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
CIR	CIRCUIT
CKT	CIRCUIT
CU	COPPER
DC	DIRECT CURRENT
DIA	DIAMETER
EB	EQUIPMENT BRANCH
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEV	ELEVATOR
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EP	EMERGENCY POWER
EPO	EMERGENCY POWER OFF (BUTTON OR SWITCH)
ER	EXISTING TO BE REMOVED
ETR	EXISTING TO BE RELOCATED
EWC	ELECTRIC WATER COOLER
EX	EXISTING TO REMAIN
F	FUSE
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR PANEL
FLA	FULL LOAD AMPERES
FMC	FLEXIBLE METAL CONDUIT
G, GND	GROUND
GFCI, GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID METAL CONDUIT
HOA	HAND-OFF-AUTOMATIC SWITCH
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HZ	HERTZ
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT - AMPERES
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LTG	LIGHTING
LRA	LOCK ROTOR AMPS
MC	METAL CLAD CABLE
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NL	NIGHT LIGHT
NO	NORMALLY OPEN OR NUMBER
P	POLE
PB	PUSH BUTTON, PANIC BUTTON OR PULLBOX
PNL	PANEL
PWR	POWER
QTY	QUANTITY
REQ	REQUIRED
RMC	RIGID METAL CONDUIT
RNC	RIGID NON-METALLIC CONDUIT
RTS	REMOTE TEST STATION
RTU	ROOF TOP UNIT
SP	SPARE
ST	SHUNT-TRIP
SW	SWITCH
SYM	SYMMETRICAL
TEL	TELEPHONE
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMCB	THERMAL MAGNETIC CIRCUIT BREAKER
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORY
V	VOLT
VA	VOLT - AMPERE
VFD	VARIABLE FREQUENCY DRIVE
W	WATT OR WIRE
WH	WATER HEATER
WP	WEATHERPROOF
XFMR	TRANSFORMER

SWITCHES

SYMBOL	DESCRIPTION
$	SINGLE POWER TOGGLE SWITCH (LETTER DENOTES FIXTURE CONTROLLED)
$3	THREE-WAY TOGGLE SWITCH
$4	FOUR-WAY TOGGLE SWITCH
$M	MOTOR SWITCH
$F	FAN SWITCH
$3P	THREE POSITION SELECTOR SWITCH
$T	TIMER SWITCH (60 MINUTES)
$LV	LOW VOLTAGE SWITCH
$HOA	HAND-OFF-AUTOMATIC SWITCH
$K	KEY SWITCH
$WP	SWITCH - WEATHERPROOF
$OS	DUAL TECH WALL SWITCH OCCUPANCY SENSOR
$DOS	DUAL TECH, DUAL-LEVEL OCCUPANCY SENSOR SWITCH
$D	DIMMING SWITCH
OS	DUAL TECH OCCUPANCY SENSOR - CEILING MOUNTED
OS	DUAL TECH OCCUPANCY SENSOR - WALL MOUNTED
DH	DAYLIGHT HARVESTING SENSOR - CEILING MOUNTED
PC	PHOTOCELL
LC	LIGHTING CONTACTOR
TC	TIME CLOCK

CODES AND STANDARDS

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING:

NFPA 70	NATIONAL ELECTRICAL CODE (2014)
NFPA 72	NATIONAL FIRE ALARM CODE (2013)
NFPA 75	STANDARD FOR THE PROTECTION OF ELECTRONIC COMPUTER / DATA PROCESSING EQUIPMENT (2013)
NFPA 90A	STANDARD FOR THE INSTALLATION OF AIR CONDITIONING AND VENTILATING SYSTEMS (2015)
NFPA 90B	STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS (2015)
NFPA 92	RECOMMENDED PRACTICE FOR SMOKE CONTROL SYSTEMS (2012)
NFPA 101	LIFE SAFETY CODE (2015)
NFPA 110	STANDARD FOR EMERGENCY AND STAND-BY POWER SYSTEMS (2015)
NFPA 780	STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS (2014)
2017 FBC	FLORIDA BUILDING CODE (2017)
2017 FFPC	FLORIDA FIRE PREVENTION CODE (2017)
	LOCAL JURISDICTION CODES AND / OR OWNER DESIGN GUIDELINES

COMMISSIONING

1. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL SUBMIT EVIDENCE TO THE REGISTERED DESIGN PROFESSIONAL (ELECTRICAL ENGINEER-OF-RECORD) OR REGISTERED DESIGN PROFESSIONAL'S REPRESENTATIVE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT THEY ARE CALIBRATED, ADJUSTED, PROGRAMMED, AND SATISFY THE INTENT OF THESE CONTRACT DOCUMENTS AND THE MANUFACTURERS' WRITTEN INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH FBC C408.3.1.1 (VACANCY / OCCUPANCY SENSOR CONTROLS), FBC C408.3.1.2 (TIME-SWITCH CONTROLS), AND/OR FBC C408.3.1.3 (DAYLIGHT RESPONSIVE CONTROLS) (AS REQUIRED).

FIELD VERIFY ALL LOCATION

1. DESIGN DRAWINGS ARE SCHEMATIC. THIS CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.
2. THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.
3. BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COST FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.

SHEET INDEX

NUMBER	NAME
E-000	LEGEND - ELECTRICAL
E-100	SITE PLAN - ELECTRICAL
E-201	LEVEL 1 - FLOOR PLAN - POWER
E-202	HIGH PLAIN - FLOOR PLAN - POWER
E-203	ROOF PLAN - ELECTRICAL
E-204	LEVEL 1 - FLOOR PLAN - ELECTRICAL HVAC
E-301	LEVEL 1 - FLOOR PLAN - LIGHTING
E-302	HIGH PLAN - FLOOR PLAN - LIGHTING
E-303	LEVEL 1 - FLOOR PLAN - EMERGENCY LIGHTING
E-501	RISER DIAGRAM - ELECTRICAL
E-601	PANEL SCHEDULES - ELECTRICAL
E-602	CALCULATIONS - ELECTRICAL
E-901	DETAILS - ELECTRICAL
E-902	DETAILS - ELECTRICAL

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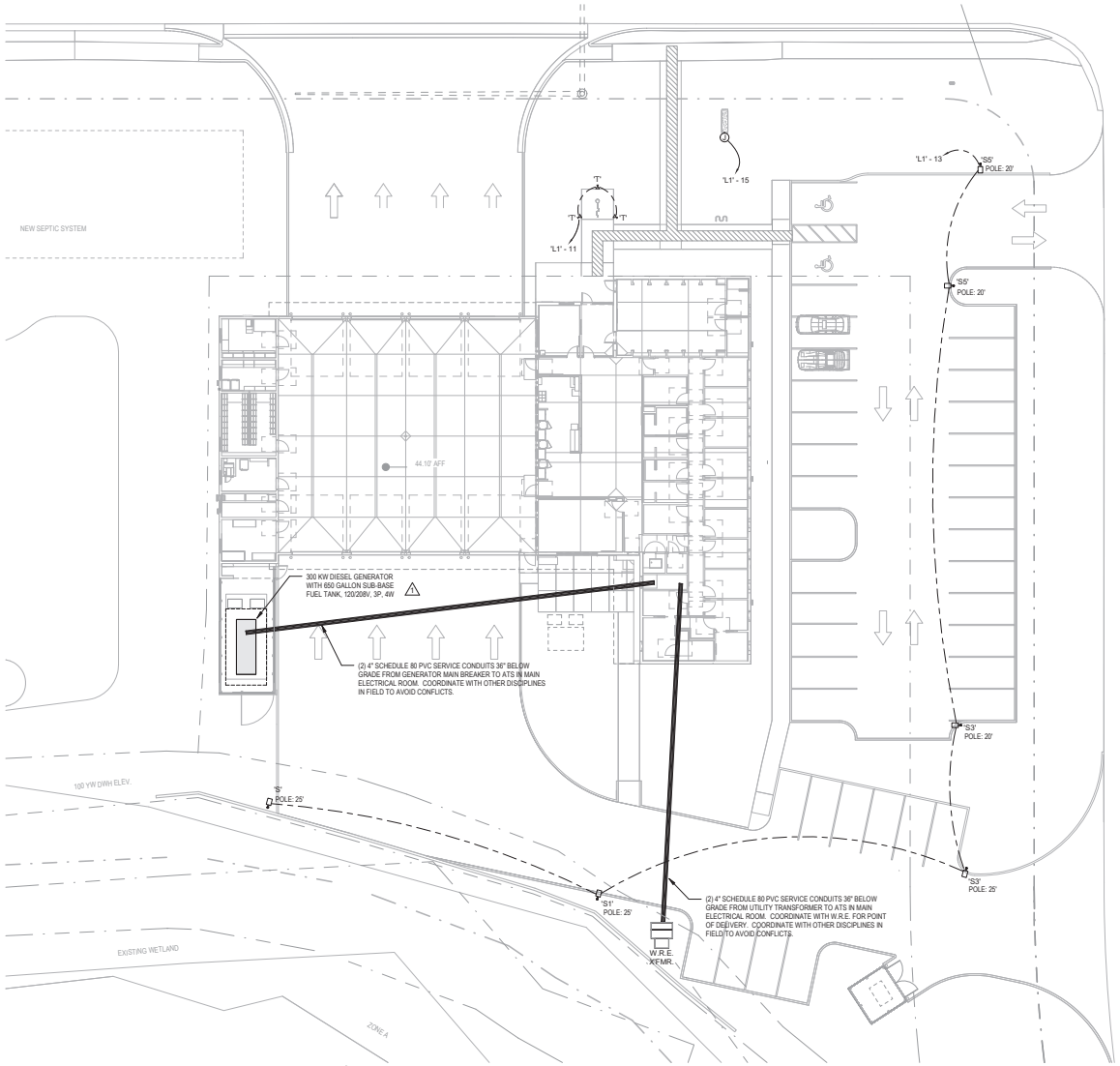
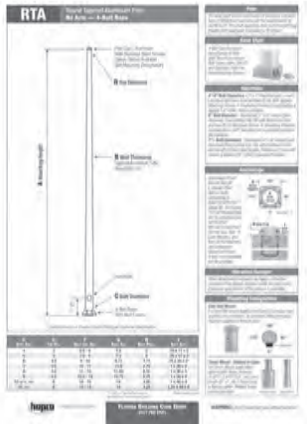
LEGEND - ELECTRICAL

E-000



1 SITE PLAN - ELECTRICAL
1/16" = 1'-0"



GENERAL NOTES

A. ALL 'S' TYPE POLE LIGHT LUMINAIRES SHALL BE FULL CUT-OFF TYPE AVOIDING ANY LIGHT SPILLAGE OUTSIDE THE PROPERTY LINE.
B. SITE POLES SHALL BE MODEL TYPE: HAPCO #RTA-20/25-C-6-B4-01-ALL POLES SHALL CONFORM TO WIND LOAD REQUIREMENTS (140+). REFER TO ADDITIONAL DETAIL ON THIS SHEET. CONTRACTOR TO PERFORM AND PROVIDE WIND LOAD CALCULATION DURING SHOP DRAWING SUBMITTAL PROCESS TO CONFIRM REQUIREMENTS ARE MET.

KEY NOTES

NUMBER	NOTES

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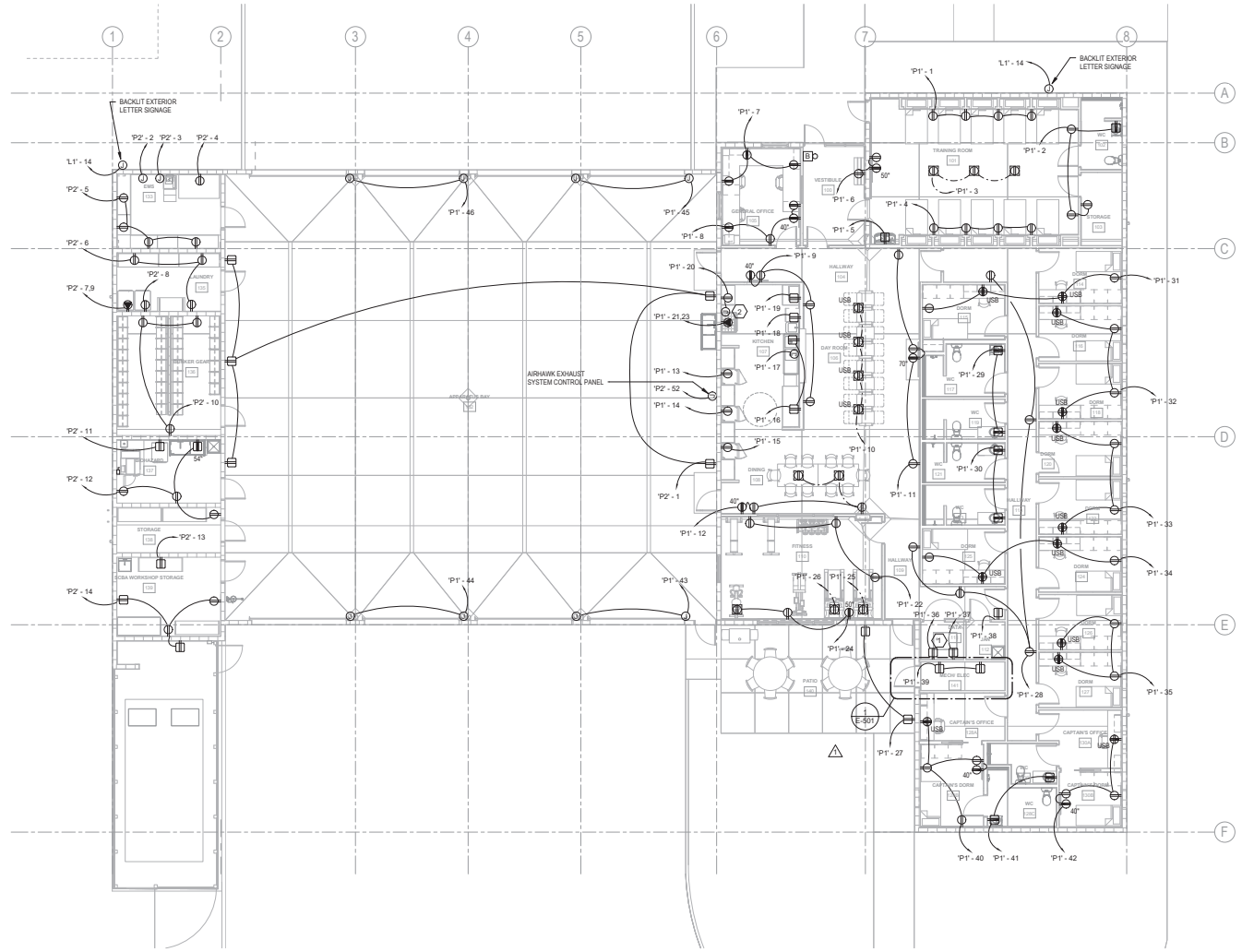
SITE PLAN - ELECTRICAL

E-100



1 LEVEL 1 - FLOOR PLAN - POWER
1/8" = 1'-0"

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DESIGN STANDARDS. THE ELECTRICAL SPECIFICATIONS ARE A BINDING PART OF THE CONSTRUCTION DOCUMENTS.
B. ALL RECEPTACLES SHALL BE 20A HOSPITAL GRADE. ALL SWITCHES SHALL BE 20A QUIET TYPE.
C. ALL WIRE SHALL BE COPPER STRANDED.
D. ALL COVER PLATES SHALL BE STAINLESS STEEL WITH LASER ENGRAVED CIRCUIT DESIGNATION.
E. CEILING OUTLETS SHALL BE TWISTLOCK.
F. CONCEAL ALL CONDUITS ON STRUCTURAL BRICK WALLS.

KEY NOTES

NUMBER	NOTES
1	REFER TO TECHNOLOGY DRAWINGS AND DETAILS FOR ADDITIONAL INFORMATION.
2	JUNCTION BOX FOR GAS RANGE IGNITER SWITCH.

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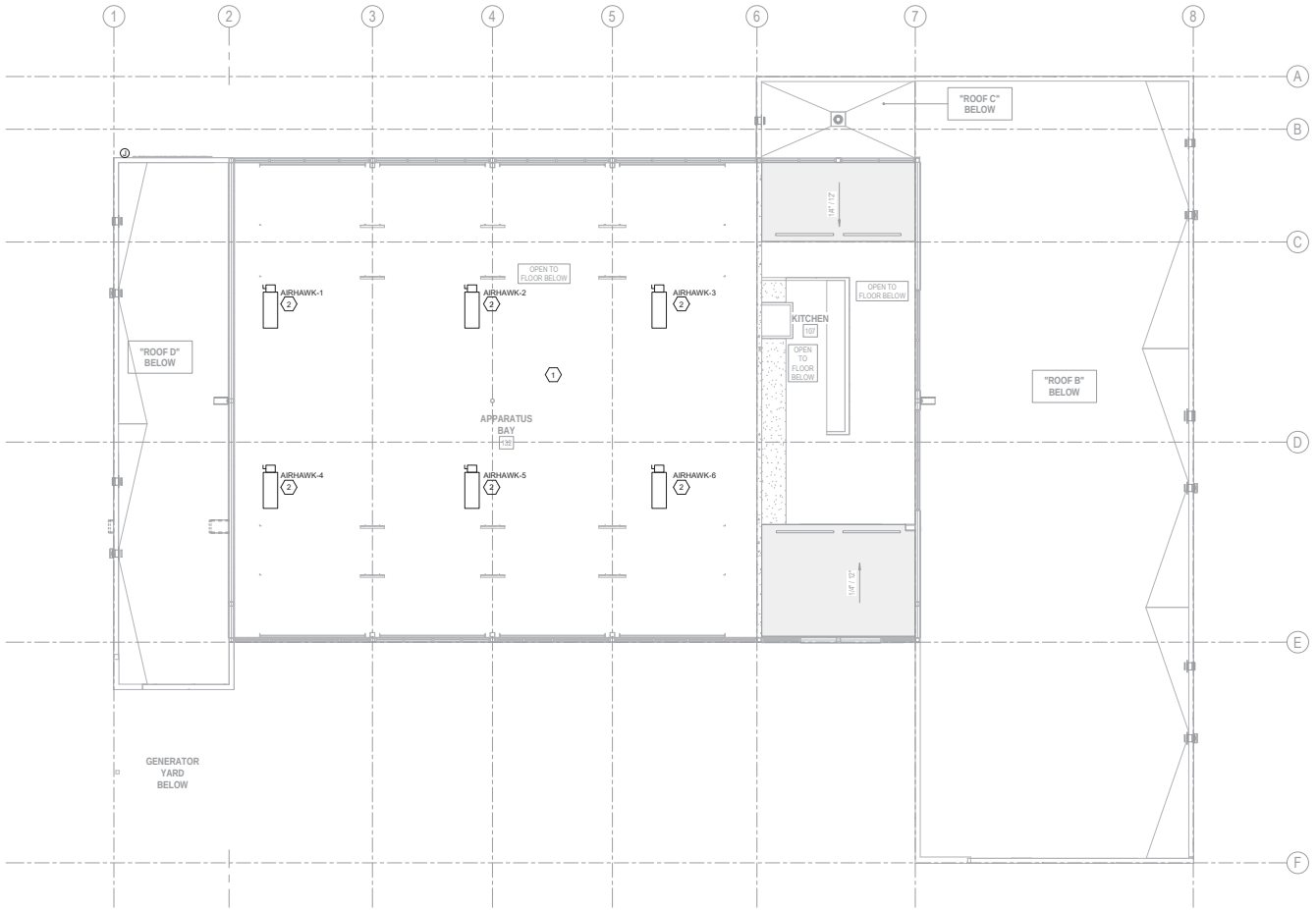
LEVEL 1 - FLOOR PLAN - POWER

E-201



1 HIGH PLAN - FLOOR PLAN - POWER
1/8" = 1'-0"

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DESIGN STANDARDS. THE ELECTRICAL SPECIFICATIONS ARE A BINDING PART OF THE CONSTRUCTION DOCUMENTS.
B. ALL RECEPTACLES SHALL BE 20A HOSPITAL GRADE. ALL SWITCHES SHALL BE 20A QUIET TYPE.
C. ALL WIRE SHALL BE COPPER STRANDED.
D. ALL COVER PLATES SHALL BE STAINLESS STEEL WITH LASER ENGRAVED CIRCUIT DESIGNATION.
E. CEILING OUTLETS SHALL BE TWISTLOCK.
F. CONCEAL ALL CONDUITS ON STRUCTURAL BRICK WALLS.

KEY NOTES

NUMBER	NOTES
1	BIRD DETERRANT TRACK WITHIN JOIST SHALL BE PROVIDED BY CONTRACTOR. REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL INFORMATION.
2	LOCATIONS FOR AIRHAWK EXHAUST FANS. REFER TO MANUFACTURER SHOP DRAWINGS FOR ADDITIONAL INFORMATION.

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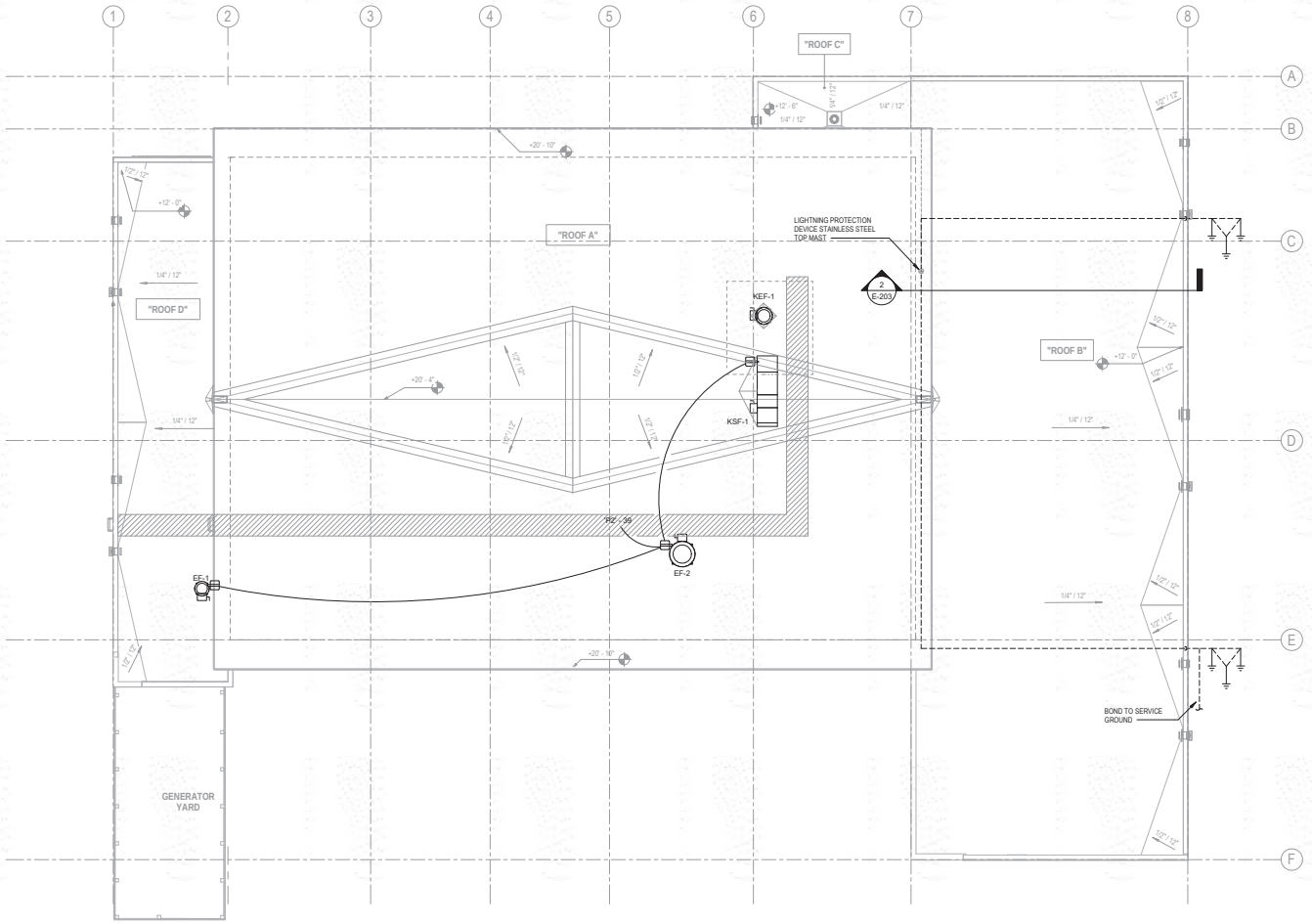
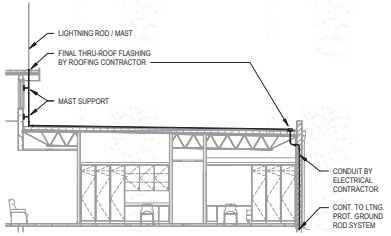
HIGH PLAN - FLOOR PLAN - POWER

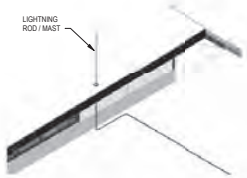
E-202



1 ROOF PLAN - ELECTRICAL
1/8" = 1'-0"



2 BUILDING SECTION - LTNG. ROD
1/8" = 1'-0"



GENERAL NOTES

A. LIGHTNING CONDUCTORS SHALL INTERCONNECT ALL AIR TERMINALS AND SHALL FORM A TWO-WAY PATH FROM EACH AIR TERMINAL HORIZONTALLY OR DOWNWARD TO CONNECTIONS WITH GROUND TERMINALS.
B. ALL LIGHTNING PROTECTION CONDUCTORS SHALL BE FASTENED NOT MORE THAN 3'-0" MAXIMUM SPACING.
C. CONNECTIONS TO GROUND LOOP CONDUCTOR SHALL BE MADE AT A POINT NOT LESS THAN 18" BELOW GRADE AND 2'-0" AWAY FROM FOUNDATION WALL.
D. FOR SAKE OF CLARITY, WE HAVE NOT LABELED EACH INDIVIDUAL ITEM OF LIGHTNING PROTECTION MATERIALS ON THE ROOF PLAN. WE HAVE SHOWN INSTALLATION DETAILS AND HAVE CALLED OUT EACH OF THESE DETAILS ON THE ROOF PLAN ONLY AT RANDOM LOCATIONS.
E. BARE COPPER LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON ALUMINUM ROOF OR SIDING OR OTHER ALUMINUM SURFACES AND VICE VERSA, ALUMINUM LIGHTNING PROTECTION MATERIALS SHALL NOT BE INSTALLED ON COPPER ROOFING OR COPPER SIDING OR OTHER COPPER SURFACES.
F. THE LIGHTNING PROTECTION SYSTEM SHALL BE INSTALLED IN A NEAT AND INCONSPICUOUS MANNER SO THAT ALL COMPONENTS WILL BLEND IN WITH THE APPEARANCE OF THE BUILDING.
G. ACTUAL JOB-SITE CONDITIONS MAY NECESSITATE SLIGHT ALTERATIONS IN AIR TERMINAL AND GROUND ROD LOCATIONS.
H. SEAL ENDS OF CONDUIT MOISTURE TIGHT WITH DUCT SEAL OR LEAD WEDGE.
I. ALL CONDUIT, CONDUIT FASTENERS AND MISCELLANEOUS ACCESSORIES SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.

KEY NOTES

NUMBER	NOTES

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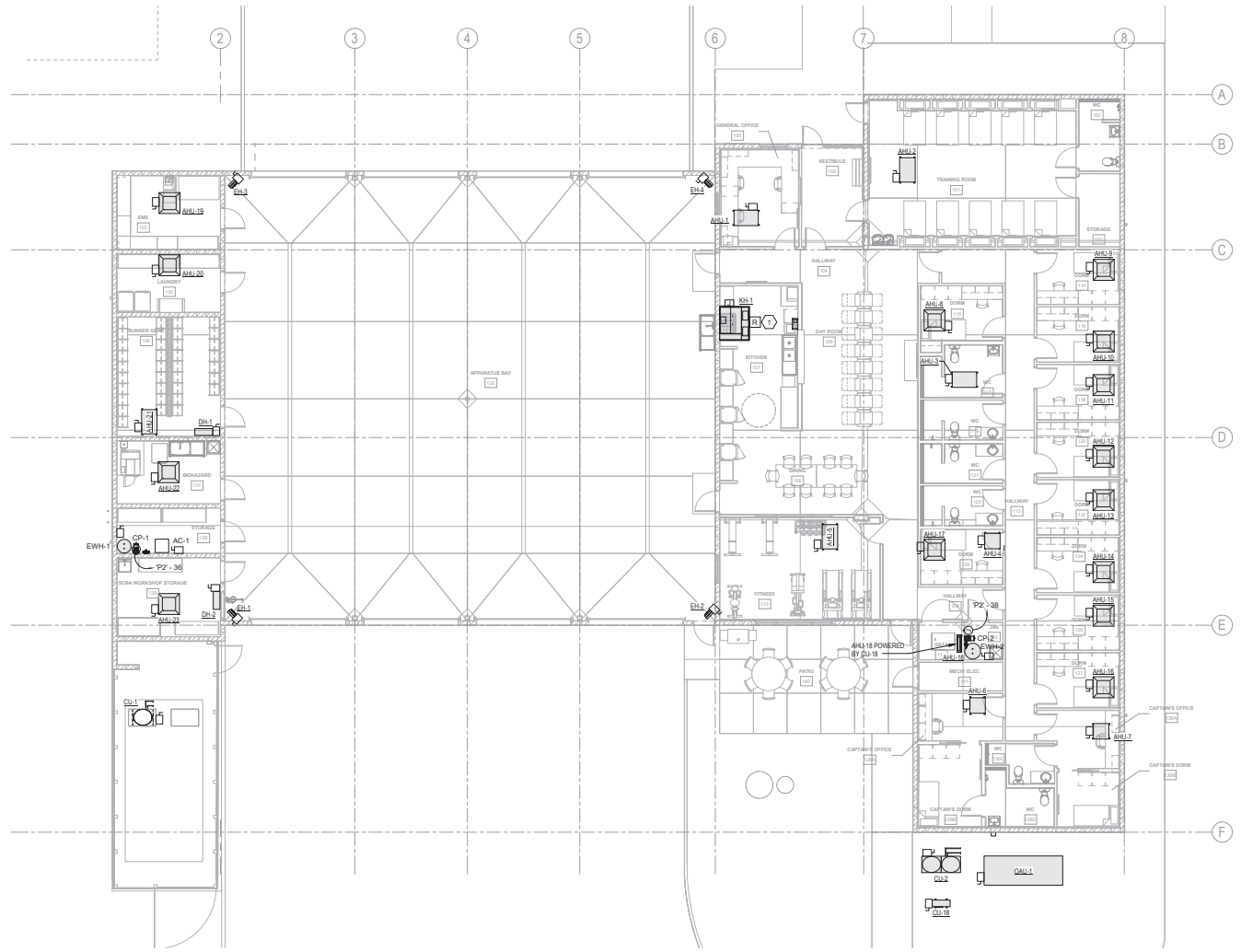
ROOF PLAN - ELECTRICAL

E-203



1 LEVEL 1 - FLOOR PLAN - ELECTRICAL HVAC
1/8" = 1'-0"

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL REFER TO THE ELECTRICAL SPECIFICATIONS FOR ADDITIONAL DESIGN STANDARDS. THE ELECTRICAL SPECIFICATIONS ARE A BINDING PART OF THE CONSTRUCTION DOCUMENTS.
B. ALL RECEPTACLES SHALL BE 20A HOSPITAL GRADE. ALL SWITCHES SHALL BE 20A QUIET TYPE.
C. ALL WIRE SHALL BE COPPER STRANDED.
D. ALL COVER PLATES SHALL BE STAINLESS STEEL WITH LASER ENGRAVED CIRCUIT DESIGNATION.
E. CEILING OUTLETS SHALL BE TWISTLOCK.
F. CONCEAL ALL CONDUITS ON STRUCTURAL BRICK WALLS.

KEY NOTES

NUMBER	NOTES
1	FIRE ALARM RELAY FOR TIE-IN TO ANSUL HOOD SYSTEM.

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Fl. Lic. #CAC1814
Robert Mann (Owner)
Robert Mann (Owner) # 14267

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HERNANDO COUNTY FIRE STATION #5

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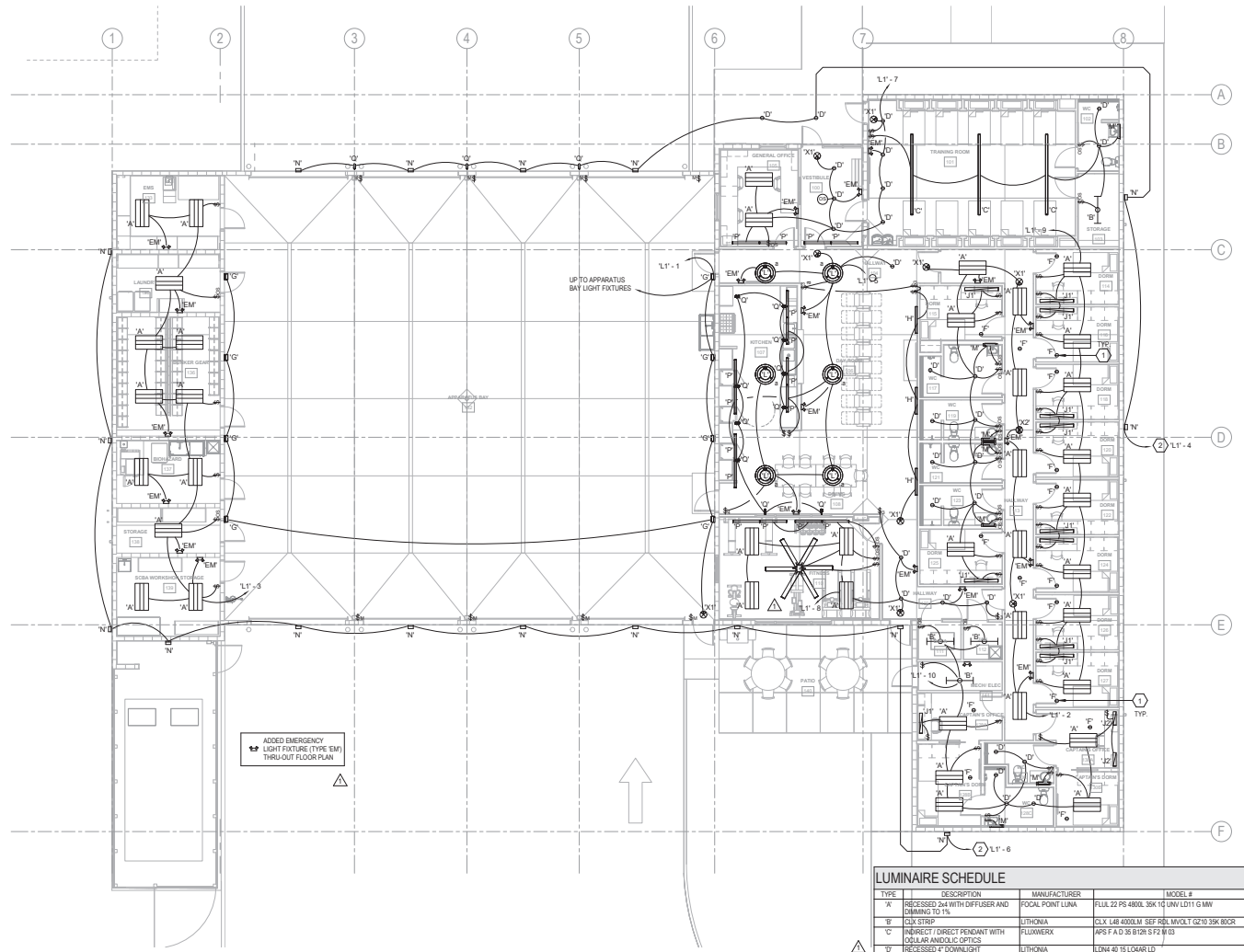
LEVEL 1 - FLOOR PLAN - ELECTRICAL HVAC

E-204



1 LEVEL 1 - FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. ALL LIGHTING CIRCUITS SHALL HOMERUN TO LIGHTING CONTROL PANEL UNLESS OTHERWISE NOTED.
B. CONCEAL ALL CONDUIT ON EXTERIOR SCONCES (TYPICAL). REFER TO SPECIFICATIONS ON SHEET E-001.
C. CONCEAL ALL CONDUIT ON INTERIOR FIXTURES (TYPICAL). REFER TO SPECIFICATIONS ON SHEET E-001.

KEY NOTES

NUMBER	NOTES
1	ALL 'F' TYPE FIXTURES SHALL BE WIRED THRU '911' CONTACTOR AND TIE-INTO NOTIFICATION SYSTEM FOR ILLUMINATION.
2	ALL EXTERIOR FIXTURES SHALL BE WIRED THRU CONTACTOR AND PHOTOCELL CONTROLLED.

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL #	LAMP TYPE	Comments
'A'	RECESSED 2x4 WITH DIFFUSER AND DIMMING TO 1%	FOCAL POINT LUNA	FLUIL 22 PS 4800L 35K 1Q UNV LD11 G MW	LED	
'B'	CLX STRIP	LITHONIA	CLX L48 4000LM SEF RBL MVOLT GZ10 35K 80CR	LED	
'C'	INDIRECT / DIRECT PENDANT WITH OCULAR ANIDOLIC OPTICS	FLUXWERX	APS F A D 35 B12R S F2 M 03	LED	
'D'	RECESSED 4" DOWNLIGHT	LITHONIA	LDN4 40 15 L/OAIR LD	LED	
'EM'	LED BUGEYE	BEGHELLI	PEH-1	LED	
'F'	RECESSED 4' DOWNLIGHT WITH RED ETCHED LENS	USAI	1020 B1 S WITH MOD RED ETCHED LENS - 10 LRTD4 9014 39Kx 30 NCSM 120V DIM.2	LED	
'G'	WALL MOUNT	BEGA	33 391BLK K4	LED	
'H'	WALL MOUNT	A-LIGHT	ACL4 4FT LH 35K U N DR B FW D	LED	
'J1'	LOW PROFILE FEELUX TUNELIGHT	FEELUX	TUN11 35K SF STD S HW RSW 120	LED	
'J2'	LOW PROFILE FEELEX TUNELIGHT AT CAPTAIN'S OFFICE	FEELUX	TUN7 35K SF STD S HW RSW 120	LED	
'K'	SUSPENDED FIXTURE	LITHONIA	DSXPGT LED 60 C 1000 40K T5M MVOLT pendant DNAXD	LED	
'L'	SUSPENDED APERTURE 36" PENDANT WITH HOLLOW CORE SHIELDED INTERIOR SHADE IN ANTHRACITE FINISH	EUREKA	4256 LED 350DK 80 120V DV AC Custom Cable Length 74" RCA WHM ANTE WHM	LED	
'M'	WALL MOUNT	BLACKJACK	NAN 25V SN 12T 30K	LED	
'N'	WALL MOUNT	LITHONIA	WDGE2 LED P2 40K 80CRI VF	LED	
'P'	TBD	ACUITY BRANDS LIGHTING	TBD	LED	
'Q'	WALL MOUNT	ECOSENSE	F080 2H HO 40 80 40 X X C	LED	
'S1'	SITE LIGHTING	LITHONIA	DSX0 LED P1 40K BLC MVOLT	LED	
'S3'	SITE LIGHTING	LITHONIA	DSX2 LED P1 40K LCCO MVOLT	LED	
'S5'	SITE LIGHTING	LITHONIA	DSX2 LED P1 40K RCCO MVOLT	LED	
'S'	SITE LIGHTING	LITHONIA	DSX2 LED P1 40K T3M MVOLT HS	LED	
'T'	GROUND MOUNT FLAG LIGHT	HYDREL PINE	P2 90CRI 40K 120 25DEG FLC	LED	
'X1'	EXIT SIGN - SINGLE FACE	ISOLITE	ELT	LED	
'X2'	EXIT SIGN - DOUBLE FACE	ISOLITE	ELT	LED	

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HERNANDO COUNTY FIRE STATION #5

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Project number
1932

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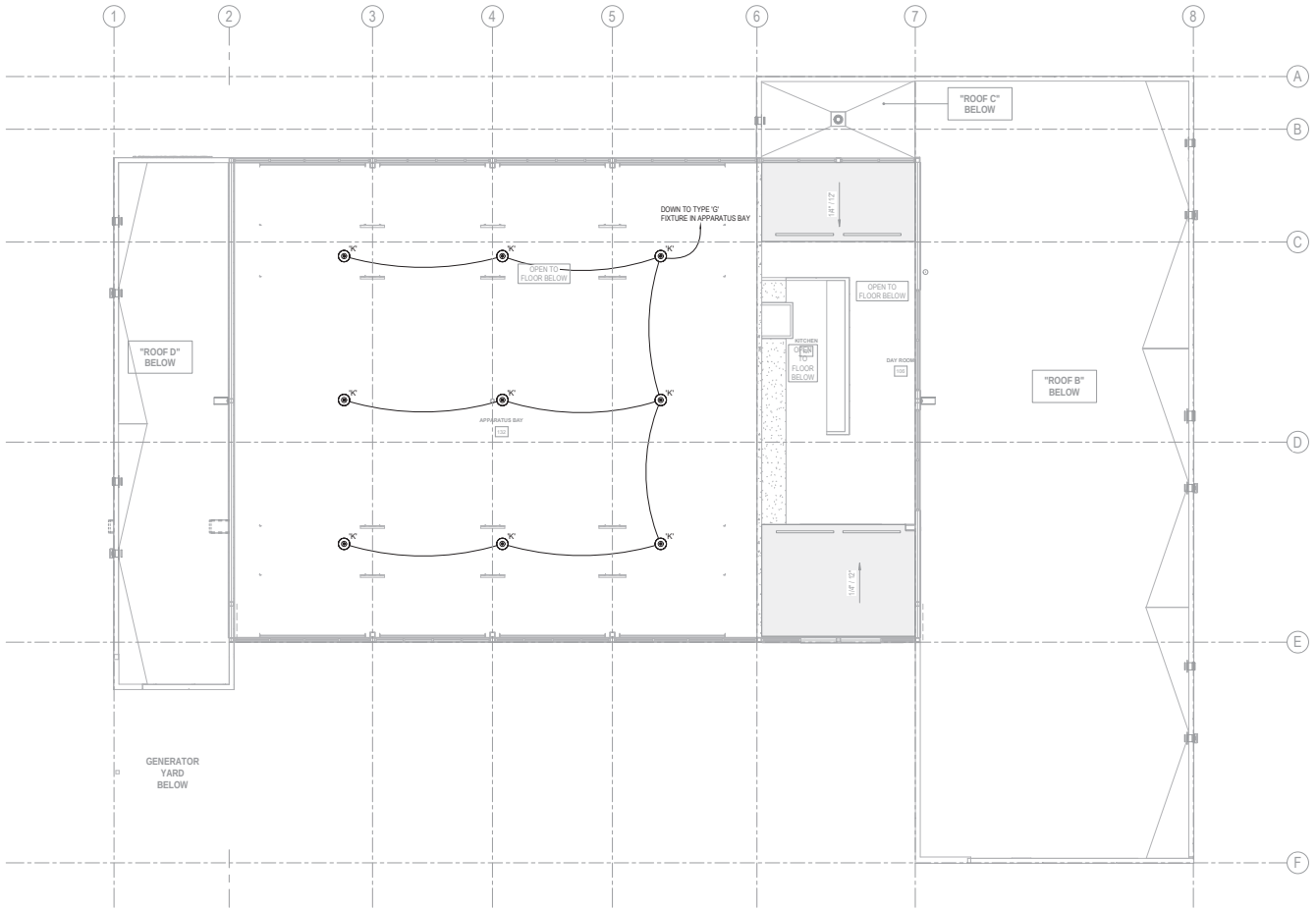
LEVEL 1 - FLOOR PLAN - LIGHTING

E-301



1 HIGH PLAN - FLOOR PLAN - LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. ALL LIGHTING CIRCUITS SHALL HOMERUN TO LIGHTING CONTROL PANEL UNLESS OTHERWISE NOTED.
B. CONCEAL ALL CONDUIT ON EXTERIOR SCONCES (TYPICAL), REFER TO SPECIFICATIONS ON SHEET E-001.
C. CONCEAL ALL CONDUIT ON INTERIOR FIXTURES (TYPICAL), REFER TO SPECIFICATIONS ON SHEET E-001.

KEY NOTES

NUMBER	NOTES

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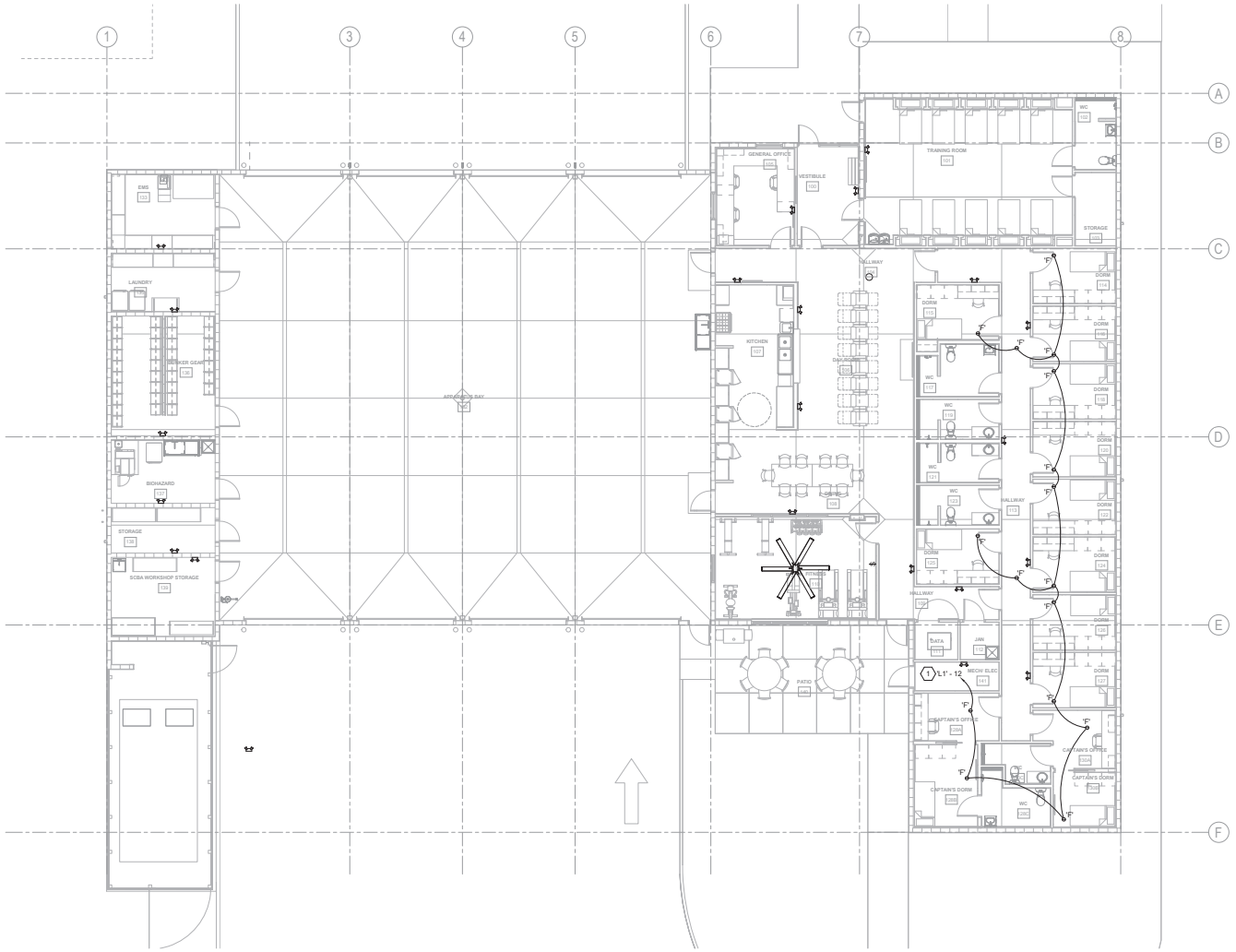
HIGH PLAN - FLOOR PLAN - LIGHTING

E-302



1 LEVEL 1 - FLOOR PLAN - EMERGENCY LIGHTING
1/8" = 1'-0"

GENERAL NOTES

A. ALL LIGHTING CIRCUITS SHALL HOMERUN TO LIGHTING CONTROL PANEL UNLESS OTHERWISE NOTED.
B. CONCEAL ALL CONDUIT ON EXTERIOR SCONCES (TYPICAL), REFER TO SPECIFICATIONS ON SHEET E-001.
C. CONCEAL ALL CONDUIT ON INTERIOR FIXTURES (TYPICAL), REFER TO SPECIFICATIONS ON SHEET E-001.

KEY NOTES

NUMBER	NOTES
1	RUN HOMERUN FOR CIRCUIT SHALL BE WIRED THROUGH EMERGENCY 911 CONTACTOR AND CONTROLLED BY 911 EMERGENCY ACTIVATION.

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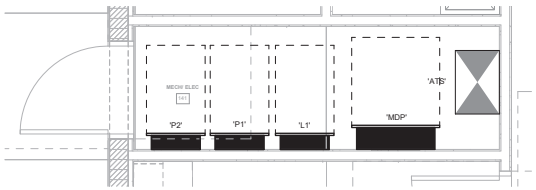
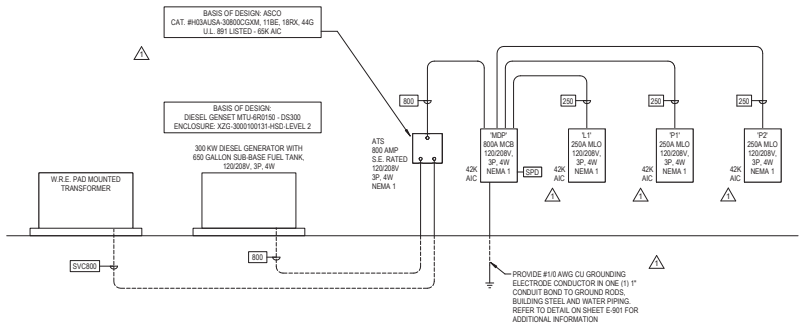
LEVEL 1 - FLOOR PLAN - EMERGENCY LIGHTING

E-303



1 ENLARGED MECH / ELEC ROOM 141
1/2" = 1'-0"



2 RISER DIAGRAM - ELECTRICAL
12" = 1'-0"

COPPER CONDUCTOR FEEDER SCHEDULE (90/75 RATED)

SYMBOL	NUMBER OF SETS	PHASE CONDUCTORS (QUANTITY) SIZE - AWG	NEUTRAL CONDUCTORS (QUANTITY) SIZE - AWG	GROUNDING CONDUCTORS (QUANTITY) SIZE - AWG	CONDUIT SIZE (QUANTITY) SIZE	REMARKS
250	1	(3) #250 KCMIL	(1) #250 KCMIL	(1) #4	(1) 3"	
800	2	(3) #600 KCMIL	(1) #600 KCMIL	(1) #1/0	(2) 4"	
SVC800	2	(3) #600 KCMIL	(1) #600 KCMIL	—	(2) 4"	

ELECTRICAL LOAD SUMMARY

PANEL NAME	SUPPLIED FROM	VOLTAGE	PHASE	NO. OF SPACES/POLES	AIC RATING	MAINS TYPE	BUS RATING	MCB RATING	MAINS RATING	DEMAND (A)	DEMAND (VA)	ENCLOSURE TYPE	LOCATION OF PANEL
'ATS'		208	3							0 A	0 VA		MECH/ ELEC 141
'L1'	'MDP'	208V	3	42	42K	MLO	250 A		250	34 A	12385 VA	Type 1	MECH/ ELEC 141
'MDP'		208V	3	60	42K	MCB	800 A	800 A		447 A	160953 VA	Type 1	MECH/ ELEC 141
'P1'	'MDP'	208V	3	60	42K	MLO	250 A		250 A	46 A	16700 VA	Type 1	MECH/ ELEC 141
'P2'	'MDP'	208V	3	60	42K	MLO	250 A		250 A	82 A	29544 VA	Type 1	MECH/ ELEC 141
W.R.E. XFMR.		208V	Not Computed							Not Computed	0 VA		

ELECTRICAL MECHANICAL EQUIPMENT SCHEDULE

TAG	HP	LOAD	FLA (AMPS)	VOLTAGE	PHASE	CONDUIT/WIRE (AWG)	PANEL	CIRCUIT NUMBER	STARTER			DISCONNECT			COMMENTS
									NEMA SIZE	ENCLOS. TYPE	FURN. BY (DIV.)	SWITCH SIZE	NO. OF POLES	ENCLOS. TYPE	FURN. BY (DIV.)	
AC-1	10	11088 VA	30.8	208 V	3	1" CONDUIT WITH 3 #6 AND 1 #10 GROUND	'MDP'	31,33,35	00	NEMA 3R	26	60	3	NEMA 3R	26	
AHU-1	—	250 VA	1.2	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	15,17	—	—	—	30	2	NEMA 1	26	
AHU-2	—	300 VA	1.4	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	15,17	—	—	—	30	2	NEMA 1	26	
AHU-3	—	728 VA	3.5	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	19,21	—	—	—	30	2	NEMA 1	26	
AHU-4	—	220 VA	1.05	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	19,21	—	—	—	30	2	NEMA 1	26	
AHU-5	—	220 VA	1.05	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	19,21	—	—	—	30	2	NEMA 1	26	
AHU-6	—	220 VA	1.05	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	23,25	—	—	—	30	2	NEMA 1	26	
AHU-7	—	220 VA	1.05	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	23,25	—	—	—	30	2	NEMA 1	26	
AHU-8	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	27,29	—	—	—	30	2	NEMA 1	26	
AHU-9	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	27,29	—	—	—	30	2	NEMA 1	26	
AHU-10	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	27,29	—	—	—	30	2	NEMA 1	26	
AHU-11	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	31,33	—	—	—	30	2	NEMA 1	26	
AHU-12	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	31,33	—	—	—	30	2	NEMA 1	26	
AHU-13	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	31,33	—	—	—	30	2	NEMA 1	26	
AHU-14	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	35,37	—	—	—	30	2	NEMA 1	26	
AHU-15	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	35,37	—	—	—	30	2	NEMA 1	26	
AHU-16	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	35,37	—	—	—	30	2	NEMA 1	26	
AHU-17	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	35,37	—	—	—	30	2	NEMA 1	26	
AHU-19	3/4	730 VA	3.5	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	16,18	00	NEMA 3R	26	30	2	NEMA 3R	26	
AHU-20	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	16,18	—	—	—	30	2	NEMA 1	26	
AHU-21	—	220 VA	1.05	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	20,22	—	—	—	30	2	NEMA 1	26	
AHU-22	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	20,22	—	—	—	30	2	NEMA 1	26	
AHU-23	—	50 VA	.24	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	20,22	—	—	—	30	2	NEMA 1	26	
AIRHAWK-1	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	41,43	00	NEMA 3R	26	30	2	NEMA 3R	26	
AIRHAWK-2	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	45,47	00	NEMA 3R	26	30	2	NEMA 3R	26	
AIRHAWK-3	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	49,51	00	NEMA 3R	26	30	2	NEMA 3R	26	
AIRHAWK-4	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	40,42	00	NEMA 3R	26	30	2	NEMA 3R	26	
AIRHAWK-5	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	44,46	00	NEMA 3R	26	30	2	NEMA 3R	26	
AIRHAWK-6	1	1872 VA	9	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	48,50	00	NEMA 3R	26	30	2	NEMA 3R	26	
CU-1	—	7488 VA	36	208 V	1	1" CONDUIT WITH 3 #6 AND 1 #10 GROUND	'MDP'	8,10	—	—	—	60	2	NEMA 3R	26	
CU-2	—	18720 VA	52	208 V	3	1-1/4" CONDUIT WITH 3 #4 AND 1 #8 GROUND	'MDP'	2,4,6	—	—	—	100	3	NEMA 3R	26	
CU-18	—	2288 VA	11	208 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'MDP'	12,14	—	—	—	30	2	NEMA 3R	26	
DH-1	—	1500 VA	12.5	120 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	24	—	—	—	30	2	NEMA 1	26	
DH-2	—	1500 VA	12.5	120 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	26	—	—	—	30	2	NEMA 1	26	
EF-1	—	696 VA	5.8	120 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	30	00	NEMA 3R	26	30	1	NEMA 3R	26	
EF-2	3/4	730 VA	3.5	208 V	1	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	32,34	00	NEMA 3R	26	30	2	NEMA 3R	26	
EH-1	—	5000 VA	13.88	208 V	3	3/4" CONDUIT WITH 3 #10 AND 1 #10 GROUND	'MDP'	7,9,11	—	—	—	30	3	NEMA 3R	26	
EH-2	—	5000 VA	13.88	208 V	3	3/4" CONDUIT WITH 3 #10 AND 1 #10 GROUND	'MDP'	13,15,17	—	—	—	30	3	NEMA 3R	26	
EH-3	—	5000 VA	13.88	208 V	3	3/4" CONDUIT WITH 3 #10 AND 1 #10 GROUND	'MDP'	19,21,23	—	—	—	30	3	NEMA 3R	26	
EH-4	—	5000 VA	13.88	208 V	3	3/4" CONDUIT WITH 3 #10 AND 1 #10 GROUND	'MDP'	25,27,29	—	—	—	30	3	NEMA 3R	26	
EWH-1	—	9000 VA	25	208 V	3	3/4" CONDUIT WITH 3 #8 AND 1 #10 GROUND	'MDP'	16,18,20	—	—	—	40	3	NEMA 3R	26	
EWH-2	—	15000 VA	41.7	208 V	3	1-1/4" CONDUIT WITH 3 #4 AND 1 #8 GROUND	'MDP'	22,24,26	—	—	—	60	3	NEMA 3R	26	
KEF-1	1	1728 VA	4.8	208 V	3	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	55,57,59	00	NEMA 3R	26	30	3	NEMA 3R	26	
KH-1	—	200 VA	—	120 V	1	3/4" CONDUIT WITH 2 #12 AND 1 #12 GROUND	'P2'	28	—	—	—	—	—	—	—	
KSF-1	1/2	900 VA	2.5	208 V	3	3/4" CONDUIT WITH 3 #12 AND 1 #12 GROUND	'P2'	56,58,60	00	NEMA 3R	26	30	3	NEMA 3R	26	
OAU-1	(2) 2-1/2	18288 VA	50.8	208 V	3	1-1/2" CONDUIT WITH 3 #3 AND 1 #8 GROUND	'MDP'	1,3,5	—	—	—	100	3	NEMA 3R	26	

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RISER DIAGRAM - ELECTRICAL

E-501

PANEL 'MDP'

MAIN BREAKER 800 A
MAIN LUGS
BUS RATING 800 A (1)
AIC RATING 42K

PHASE: 3 | CIRCUIT: 60 | MOUNT: Surface | NEMA: Type 1 | VOLTAGE: 120/208 Wye

NOTES	CKT #	CIRCUIT DESCRIPTION	TRIP AMPS	BRKR. POLES	A PHASE LOAD kVA	B PHASE LOAD kVA	C PHASE LOAD kVA	BRKR. POLES	TRIP AMPS	CIRCUIT DESCRIPTION	CKT #	NOTES
	1				6096 VA	6240 VA					2	
	3	OAU-1	80 A	3		6096 VA	6240 VA	3	70 A	CU-2	4	
	5						6096 VA	6240 VA			6	
	7				1667 VA	3744 VA					8	
	9	EH-1	25 A	3		1667 VA	3744 VA	2	45 A	CU-1	10	
	11						1667 VA	1144 VA			12	
	13				1667 VA	1144 VA		2	25 A	CU-18	14	
	15	EH-2	25 A	3		1667 VA	3000 VA				16	
	17						1667 VA	3000 VA	3	40 A	EWH-1	18
	19				1667 VA	3000 VA					20	
	21	EH-3	25 A	3		1667 VA	5000 VA				22	
	23						1667 VA	5000 VA	3	60 A	EWH-2	24
	25				1667 VA	5000 VA					26	
	27	EH-4	25 A	3		1667 VA	0 VA	1	20 A	SPARE	28	
	29						1667 VA	0 VA	1	20 A	SPARE	30
	31				3696 VA	0 VA			1	20 A	SPARE	32
	33	AC-1 (AIR COMPRESSOR)	45 A	3		3696 VA	0 VA		1	20 A	SPARE	34
	35						3696 VA	0 VA	1	20 A	SPARE	36
	37	SPARE	20 A	1	0 VA	0 VA			1	20 A	SPARE	38
	39	SPARE	20 A	1			0 VA	0 VA	--	--	SPACE	40
	41	SPARE	20 A	1				0 VA	0 VA	--	--	SPACE	42
--	43	SPACE	--	--	0 VA	0 VA			--	--	SPACE	44
--	45	SPACE	--	--			0 VA	0 VA	--	--	SPACE	46
--	47	SPACE	--	--				0 VA	0 VA	--	--	SPACE	48
	49				7200 VA	4906 VA					50	
	51	PANEL 'P1'	250 A	3		9540 VA	2286 VA	3	250 A	PANEL 'L1'	52	
	53						6660 VA	3078 VA			54	
	55				10464 VA	0 VA					56	
	57	PANEL 'P2'	250 A	3		8544 VA	0 VA	3	30 A	SPD	58	
	59						10536 VA	0 VA			60	
				PHASE kVA	58156 VA	54802 VA	52115 VA					
				TOTAL kVA	165074 VA		TOTAL AMPS	458 A				
				TOTAL DEMAND kVA	160953 VA		DEM LOAD AMPS	447 A				

LIGHTING	8486 VA	125.00%	10607 VA
Motor	0 VA	0.00%	0 VA
HEATING	20000 VA	125.00%	25000 VA
Receptacle	32480 VA	65.39%	21240 VA

PANEL NOTES:

PANEL 'L1'

MAIN BREAKER
MAIN LUGS 250
BUS RATING 250 A (1)
AIC RATING 42K

PHASE: 3 | CIRCUIT: 42 | MOUNT: Surface | NEMA: Type 1 | VOLTAGE: 120/208 Wye

NOTES	CKT #	CIRCUIT DESCRIPTION	TRIP AMPS	BRKR. POLES	A PHASE LOAD kVA	B PHASE LOAD kVA	C PHASE LOAD kVA	BRKR. POLES	TRIP AMPS	CIRCUIT DESCRIPTION	CKT #	NOTES
	1	LIGHTING	20 A	1	571 VA	776 VA					1	
	3	LIGHTING	20 A	1			629 VA	533 VA			1	
	5	LIGHTING	20 A	1					1717 VA	517 VA	1	
	7	LIGHTING	20 A	1	726 VA	495 VA					1	
	9	LIGHTING	20 A	1			428 VA	536 VA			1	
	11	LIGHTING	20 A	1					225 VA	640 VA	1	
	13	SITE LIGHTING	20 A	1	738 VA	1600 VA					1	
	15	SITE SIGN	20 A	1			180 VA	0 VA			1	
	17	SPARE	20 A	1					0 VA	0 VA	1	
	19	SPARE	20 A	1	0 VA	0 VA					1	
	21	SPARE	20 A	1			0 VA	0 VA			1	
	23	SPARE	20 A	1					0 VA	0 VA	--	--
--	25	SPACE	--	--	0 VA	0 VA					--	--
--	27	SPACE	--	--			0 VA	0 VA			--	--
--	29	SPACE	--	--					0 VA	0 VA	--	--
--	31	SPACE	--	--	0 VA	0 VA					--	--
--	33	SPACE	--	--			0 VA	0 VA			--	--
--	35	SPACE	--	--					0 VA	0 VA	--	--
--	37	SPACE	--	--	0 VA	0 VA					--	--
--	39	SPACE	--	--			0 VA	0 VA			--	--
--	41	SPACE	--	--					0 VA	0 VA	--	--
				PHASE kVA	4906 VA	2286 VA	3078 VA					
				TOTAL kVA	10264 VA		TOTAL AMPS	28 A				
				TOTAL DEMAND kVA	12385 VA		DEM LOAD AMPS	34 A				

LIGHTING	8486 VA	125.00%	10607 VA
Motor	0 VA	0.00%	0 VA
Receptacle	1780 VA	100.00%	1780 VA

PANEL NOTES:

PANEL 'P1'

MAIN BREAKER
MAIN LUGS 250 A
BUS RATING 250 A (1)
AIC RATING 42K

PHASE: 3 | CIRCUIT: 60 | MOUNT: Surface | NEMA: Type 1 | VOLTAGE: 120/208 Wye

NOTES	CKT #	CIRCUIT DESCRIPTION	TRIP AMPS	BRKR. POLES	A PHASE LOAD kVA	B PHASE LOAD kVA	C PHASE LOAD kVA	BRKR. POLES	TRIP AMPS	CIRCUIT DESCRIPTION	CKT #	NOTES
	1	RECEPTACLE	20 A	1	720 VA	720 VA		1	20 A	RECEPTACLE	2	
	3	RECEPTACLE	20 A	1		540 VA	720 VA	1	20 A	RECEPTACLE	4	
	5	RECEPTACLE	20 A	1			180 VA	540 VA	1	20 A	RECEPTACLE	6
	7	RECEPTACLE	20 A	1	540 VA	720 VA		1	20 A	RECEPTACLE	8	
	9	RECEPTACLE	20 A	1		720 VA	720 VA	1	20 A	RECEPTACLE	10	
	11	RECEPTACLE	20 A	1			720 VA	900 VA	1	20 A	RECEPTACLE	12
	13	RECEPTACLE	20 A	1	180 VA	180 VA		1	20 A	RECEPTACLE	14	
	15	RECEPTACLE	20 A	1		180 VA	360 VA	1	20 A	RECEPTACLE	16	
	17	RECEPTACLE	20 A	1			180 VA	180 VA	1	20 A	RECEPTACLE	18
	19	RECEPTACLE	20 A	1	180 VA	360 VA		1	20 A	RECEPTACLE	20	
	21	RECEPTACLE	40 A	2		180 VA	540 VA	1	20 A	RECEPTACLE	22	
	23						180 VA	540 VA	1	20 A	RECEPTACLE	24
	25	RECEPTACLE	20 A	1	180 VA	180 VA		1	20 A	RECEPTACLE	26	
	27	RECEPTACLE	20 A	1		360 VA	900 VA	1	20 A	RECEPTACLE	28	
	29	RECEPTACLE	20 A	1			360 VA	360 VA	1	20 A	RECEPTACLE	30
	31	RECEPTACLE	20 A	1	1080 VA	1080 VA		1	20 A	RECEPTACLE	32	
	33	RECEPTACLE	20 A	1		1080 VA	1080 VA	1	20 A	RECEPTACLE	34	
	35	RECEPTACLE	20 A	1			1080 VA	180 VA	1	20 A	RECEPTACLE	36
	37	RECEPTACLE	20 A	1	180 VA	180 VA		1	20 A	RECEPTACLE	38	
	39	RECEPTACLE	20 A	1		360 VA	1080 VA	1	20 A	RECEPTACLE	40	
	41	RECEPTACLE	20 A	1			360 VA	900 VA	1	20 A	RECEPTACLE	42
	43	RECEPTACLE	20 A	1	360 VA	360 VA		1	20 A	RECEPTACLE	44	
	45	RECEPTACLE	20 A	1		360 VA	360 VA	1	20 A	RECEPTACLE	46	
	47	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	48
	49	SPARE	20 A	1	0 VA	0 VA		1	20 A	SPARE	50	
	51	SPARE	20 A	1		0 VA	0 VA	1	20 A	SPARE	52	
	53	SPARE	20 A	1			0 VA	0 VA	1	20 A	SPARE	54
--	55	SPACE	--	--	0 VA	0 VA			--	--	SPACE	56
--	57	SPACE	--	--			0 VA	0 VA	--	--	SPACE	58
--	59	SPACE	--	--				0 VA	0 VA	--	--	SPACE	60
				PHASE kVA	7200 VA	9540 VA	6660 VA					
				TOTAL kVA	23400 VA		TOTAL AMPS	65 A				
				TOTAL DEMAND kVA	16700 VA		DEM LOAD AMPS	46 A				

Receptacle	23400 VA	71.37%	16700 VA

PANEL NOTES:

PANEL 'P2'

MAIN BREAKER
MAIN LUGS 250 A
BUS RATING 250 A (1)
AIC RATING 42K

PHASE: 3 | CIRCUIT: 60 | MOUNT: Surface | NEMA: Type 1 | VOLTAGE: 120/208 Wye

NOTES	CKT #	CIRCUIT DESCRIPTION	TRIP AMPS	BRKR. POLES	A PHASE LOAD kVA	B PHASE LOAD kVA	C PHASE LOAD kVA	BRKR. POLES	TRIP AMPS	CIRCUIT DESCRIPTION	CKT #	NOTES
	1	RECEPTACLE	20 A	1	900 VA	180 VA		1	20 A	RECEPTACLE	2	
	3	RECEPTACLE	20 A	1			180 VA	180 VA	1	20 A	RECEPTACLE	4
	5	RECEPTACLE	20 A	1					720 VA	540 VA	1	20 A	RECEPTACLE	6
	7	RECEPTACLE	30 A	2	180 VA	180 VA					1	20 A	RECEPTACLE	8
	9						180 VA	540 VA			1	20 A	RECEPTACLE	10
	11	RECEPTACLE	20 A	1					180 VA	720 VA	1	20 A	RECEPTACLE	12
	13	RECEPTACLE	20 A	1	180 VA	720 VA					1	20 A	RECEPTACLE	14
	15						275 VA	390 VA						16
	17	AHU-1 AND 2	20 A	2					275 VA	390 VA	2	20 A	AHU 19 AND 20	18
	19	AHU-3, AHU-4, AHU-5	20 A	2	584 VA	180 VA					2	20 A	AHU-21, 22, 23	20
	21						584 VA	180 VA						22
	23	AHU-6 AND AHU-7	20 A	2					220 VA	1500 VA	1	20 A	DH-1	24
	25				220 VA	1500 VA					1	20 A	DH-2	26
	27	AHU-8, AHU-9, AHU-10	20 A	2			75 VA	200 VA			1	20 A	KH-1	28
	29								75 VA	696 VA	1	20 A	EF-1	30
	31	AHU-11, AHU-12, AHU-13	20 A	2	75 VA	365 VA					2	20 A	EF-2	32
	33						75 VA	365 VA						34
	35	AHU-14, AHU-15, AHU-16, AHU-17	20 A	2					100 VA	500 VA	1	20 A	CP-1	36
	37				100 VA	500 VA					1	20 A	CP-2	38
	39	RECEPTACLE	20 A	1			540 VA	936 VA			2	20 A	AIRHAWK-4	40
	41	AIRHAWK-1	20 A	2					936 VA	936 VA				42
	43				936 VA	936 VA					2	20 A	AIRHAWK-5	44
	45	AIRHAWK-2	20 A	2			936 VA	936 VA						46
	47								936 VA	936 VA	2	20 A	AIRHAWK-6	48
	49	AIRHAWK-3	20 A	2	936 VA	936 VA								50
	51						936 VA	180 VA			1	20 A	RECEPTACLE	52
	53	SPARE	20 A	1					0 VA	0 VA	1	20 A	SPARE	54
	55	KEF-1	20 A	3	576 VA	300 VA								56
	57						576 VA	300 VA			3	20 A	KSF-1	58
	59								576 VA	300 VA				60
				PHASE kVA	10464 VA	8544 VA	10536 VA					
				TOTAL kVA	29544 VA		TOTAL AMPS	82 A				
				TOTAL DEMAND kVA	29544 VA		DEM LOAD AMPS	82 A				

Receptacle	7300 VA	100.00%	7300 VA

PANEL NOTES:

PANEL SCHEDULES	
MDP	L1
P1	P2

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TO THE BEST OF THE ENGINEER'S KNOWLEDGE THE PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

Project number
1932

DISTRIBUTION

MILESTONE	DATE
PERMIT SET	08/31/20
REV 1 COUNTY COMMENTS	10/28/20
BID SET	01/27/21

PANEL SCHEDULES - ELECTRICAL

E-601

Project: HCFS#5
Base Project

Load Flow Summary Report

Load Flow Study Settings

Include Source Impedance	Yes	Bus Voltage Drop %	3.00
Solution Method	Fast Decoupled	Branch Voltage Drop %	5.00
Load Specification	Connected Load		

Swing Generators

Source	In/Out Service	Vpu	Angle	kW	kvar	VD%	Utility Impedance
GEN-0001	In	1.00	0.00	0.0	0.0	100.00	2.50 + j 50.00
UTIL: W.R.E.	In	1.00	0.00	233.8	175.9	1.54	1.03 + j 4.25

Buses

Bus Name	In/Out Service	Design Volts	LF Volts	Angle Degree	PU Volts	%VD
GEN-BUS	In	480	0	0.00	0.00	100.00
L1	In	208	205	-1.11	0.98	2.04
MSB	In	208	203	-1.11	0.98	2.32
P1	In	208	203	-1.11	0.98	2.27
P2	In	208	203	-1.11	0.98	2.27

Bus Name	In/Out Service	Design Volts	LF Volts	Angle Degree	PU Volts	%VD
W.R.E. BUS	In	480	464	-1.63	0.98	3.34

Cables

From Bus To Bus	Component Name	In/Out Service	%VD	kW Loss	kvar Loss	kVA Loss	LF Amps Rating %	PF
BUS-0007	CBL-0001	In	0.00	233.8	175.9	292.6	420.5	0.80
W.R.E. BUS				0.0	0.0	0.0	7.0	
BUS-0011	CBL-0002	In	0.00	0.0	0.0	0.0	0.0	0.00
GEN BUS				0.0	0.0	0.0	0.0	
GEN BUS	GEN SVC FEED	In	0.00	0.0	0.0	0.0	0.0	0.00
BUS-0015				0.0	0.0	0.0	0.0	
MSB	MDP-L1	In	0.07	4.8	7.4	12.3	34.0	0.80
L1				0.0	0.0	0.0	13.1	
MSB	MDP-P1	In	0.05	13.7	10.9	16.6	47.2	0.80
P1				0.0	0.0	0.0	18.5	

From Bus To Bus	Component Name	In/Out Service	%VD	kW Loss	kvar Loss	kVA Loss	LF Amps Rating %	PF
MSB	MDP-P2	In	0.15	14.1	10.6	17.7	47.6	0.80
P2				0.2	0.1	0.2	11.6	
MSB	MDP-POOL	Out	0.00	0.0	0.0	0.0	0.0	0.00
POOL				0.0	0.0	0.0	0.0	
W.R.E. BUS	GEN SVC FEED	In	0.39	233.8	175.9	292.6	420.5	0.80
BUS-0015				1.1	1.4	1.8	116.1	

Project: HCFS#5
Base Project

DAPPER Fault Contribution Complete Report

Comprehensive Short Circuit Study Settings

Three Phase Fault	Yes	Faulted Bus	All Buses
Single Line to Ground	Yes	Bus Voltages	First Bus From Fault
Line to Line Fault	No	Branch Currents	First Branch From Fault
Line to Line to Ground	No	Phase or Sequence	Report phase quantities
Motor Contribution	Yes	Fault Current Calculation	Asymmetrical (EMTP, with OC effects and Decay)
Transformer Tap	Yes	Asym Fault Current at Time	0.50 Cycles
Xformer Phase Shift	Yes		

Bus Name	Contributions		Initial Symmetrical Amps 3 Phase	Initial Symmetrical Amps SLG	Initial Symmetrical Amps LLG	Initial Symmetrical Amps LL	Asymmetrical Amps 3 Phase	Asymmetrical Amps SLG	Asymmetrical Amps LLG	Asymmetrical Amps LL	Init Sym Neutral Amps SLG	Init Sym Neutral Amps LLG
GEN-BUS			5,548	5,548	0	0	8,697	8,696	0	0		
	GEN SVC FEED CABLE	In	0	0	0	0	0	0	0	0		
	CBL-0002 CABLE	In	5,584	5,548	0	0	8,697	8,696	0	0	5,586	
L1			26,792	0	0	0	36,091	0	0	0		
	MDP-L1 CABLE	In	26,792	0	0	0	36,091	0	0	0		
MSB			36,226	0	0	0	37,511	0	0	0		
	MDP-L1 CABLE	In	0	0	0	0	0	0	0	0		
	MDP-P1 CABLE	In	0	0	0	0	0	0	0	0		
	MDP-POOL CABLE	Out										
	MDP-P2 CABLE	In	2,515	0	0	0	3,476	0	0	0		
P1			26,792	0	0	0	36,091	0	0	0		
	MDP-P1 CABLE	In	26,792	0	0	0	36,091	0	0	0		
P2			28,719	0	0	0	33,912	0	0	0		
	MDP-P2 CABLE	In	2,476	0	0	0	2,533	0	0	0		

Bus Name	Contributions		Initial Symmetrical Amps 3 Phase	Initial Symmetrical Amps SLG	Initial Symmetrical Amps LLG	Initial Symmetrical Amps LL	Asymmetrical Amps 3 Phase	Asymmetrical Amps SLG	Asymmetrical Amps LLG	Asymmetrical Amps LL	Init Sym Neutral Amps SLG	Init Sym Neutral Amps LLG
	MDP-P2 CABLE	In	25,952	0	0	0	36,649	0	0	0		
W.R.E. BUS			36,155	0	0	0	58,313	0	0	0		
	UTIL: SVC FEED CABLE	In	2,776	0	0	0	3,950	0	0	0		
	CBL-0001 CABLE	In	33,165	0	0	0	50,663	0	0	0		

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

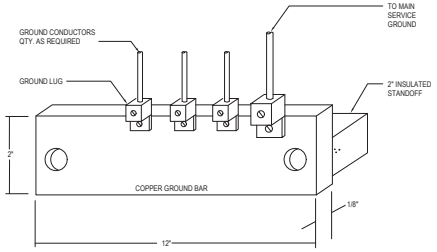
Project number
1932

DISTRIBUTION

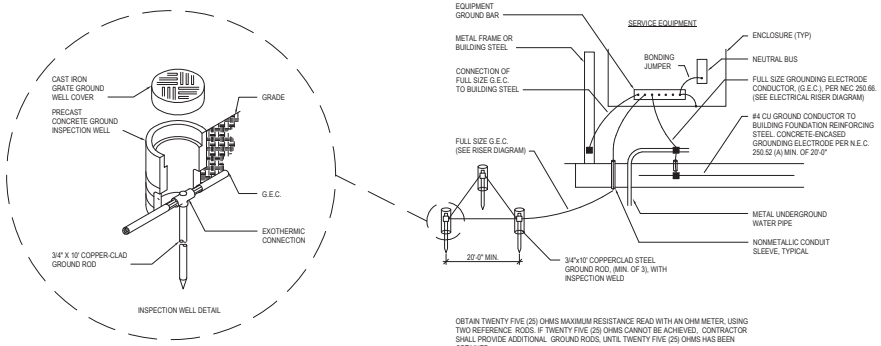
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

CALCULATIONS - ELECTRICAL

E-602

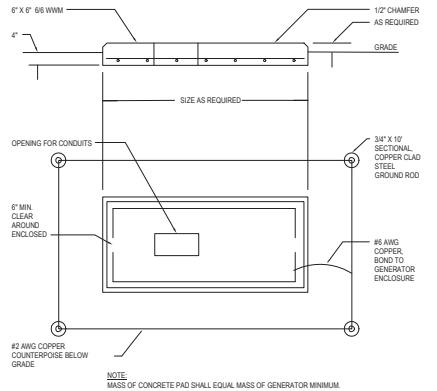


COMMUNICATIONS GROUND BAR DETAIL | E



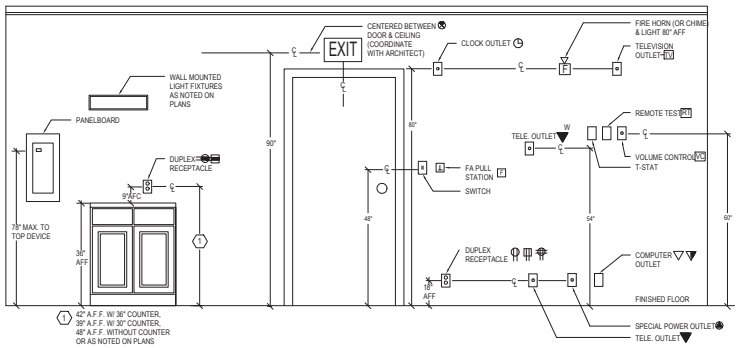
OBTAIN TWENTY FIVE (25) OHMS MAXIMUM RESISTANCE READ WITH AN OHM METER, USING TWO REFERENCE RODS. IF TWENTY FIVE (25) OHMS CANNOT BE ACHIEVED, CONTRACTOR SHALL PROVIDE ADDITIONAL GROUND RODS, UNTIL TWENTY FIVE (25) OHMS HAS BEEN OBTAINED.

GROUNDING ELECTRODE SYSTEM | A

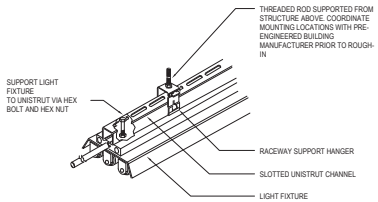


NOTE:
MASS OF CONCRETE PAD SHALL EQUAL MASS OF GENERATOR MINIMUM.

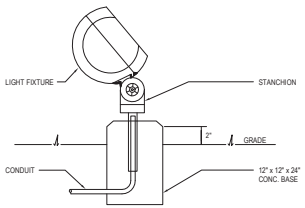
GENERATOR PAD DETAIL | F



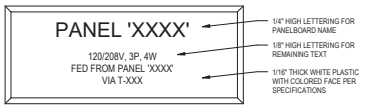
TYPICAL MOUNTING HEIGHT DETAIL | B



LIGHT FIXTURE SUPPORT DETAIL | G



UPLIGHT SUPPORT DETAIL | D



TYPICAL 120/208V PANELBOARD

PANELBOARD NAMEPLATE DETAIL | C

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HERNANDO COUNTY FIRE STATION #5

9252 SPRING HILL DRIVE SPRING HILL, FL 34608

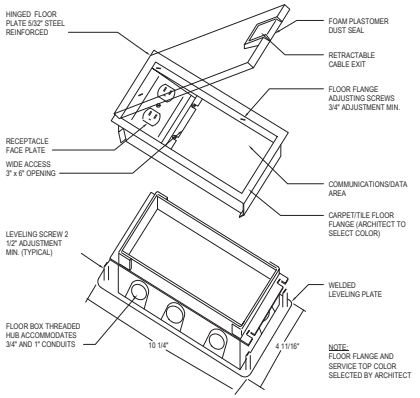
Project number
1932

DISTRIBUTION

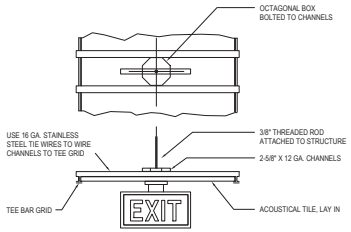
MILESTONE	DATE
PERMIT SET	08/31/20
BID SET	01/27/21

DETAILS - ELECTRICAL

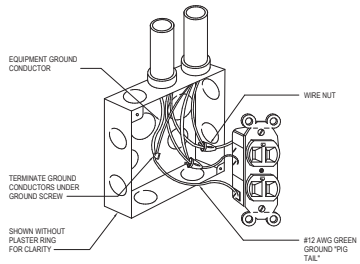
E-901



TYPICAL FLOOR BOX | G

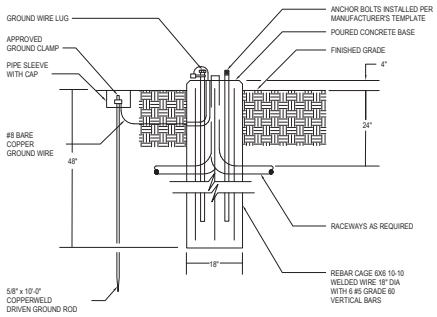


EXIT LIGHT MOUNTING DETAIL (CEILING ONLY) | D

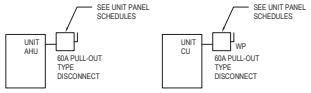


NOTE:
DUPLEX RECEPTACLE SHOWN, SIMILAR FOR ALL WIRING DEVICES.

WIRING DEVICE GROUNDING DETAIL | A



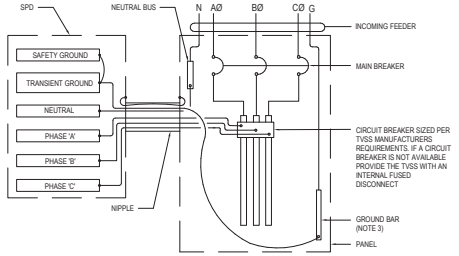
POLE BASE DETAIL | H



NOTES:

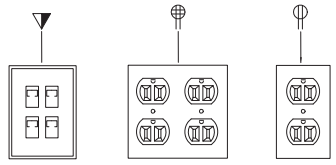
1. VERIFY ALL MECHANICAL EQUIPMENT NAME PLATE RATINGS PRIOR TO ROUGH-IN AND ORDERING ELECTRICAL EQUIPMENT INTENDED TO SERVE THE HVAC SYSTEM
2. ALL MECHANICAL EQUIPMENT POWER CONNECTIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION SHOWN ON MECHANICAL DRAWINGS DURING THE DESIGN PROCESS. THE MECHANICAL/GENERAL CONTRACTOR, SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE ELECTRICAL EQUIPMENT, DUE TO ACCEPTANCE OF APPROVED EQUAL OR SUBSTITUTIONS OF ANY MECHANICAL EQUIPMENT.
3. STARTERS PROVIDED BY THE MECHANICAL CONTRACTOR SHALL BE INSTALLED, AND CONNECTED TO THE LINE VOLTAGE BY THE ELECTRICAL CONTRACTOR. ALL FACTORY INSTALLED STARTERS SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR (SEE NOTE 2)
4. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT THROUGH ANY INACCESSIBLE LOCATION (I.E. UNDER SLAB, CONCRETE DECK) FOR CONTROL WIRING. COORDINATE ALL LOCATIONS WITH MECHANICAL PRIOR TO ROUGH-IN.
5. ALL DISCONNECT SWITCHES SHALL BE EASILY ACCESSIBLE. DO NOT INSTALL ANY DISCONNECT SWITCH ABOVE AN ACCESS PANEL. COORDINATE EXACT LOCATION WITH EQUIPMENT SUPPLIER.
6. PROVIDE PHENOLIC LABEL FOR EACH DISCONNECT SWITCH, IDENTIFYING THE EQUIPMENT, THE PANEL AND CIRCUIT NUMBER SERVING THE THE EQUIPMENT.

HVAC / MECHANICAL EQUIPMENT POWER CONNECTION | E

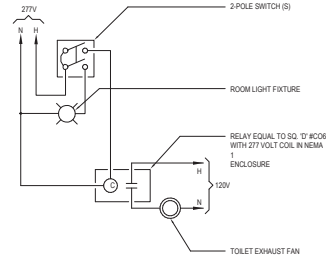


NOTES:
1. ALL WIRING SHALL BE PER TVSS MANUFACTURER'S REQUIREMENTS.
2. WIRE LENGTH SHOULD BE AS SHORT AND STRAIGHT AS POSSIBLE WITH TVSS DEVICE LOCATED ADJACENT TO ITS BREAKER, NEUTRAL BUS SIDE.
3. PROVIDE CONNECTION TO ISOLATED GROUND BAR IF AVAILABLE.

SPD WIRING DETAIL | B



OUTLET BOXES DETAIL | F



TOILET EXHAUST FAN CONTROL DIAGRAM | C

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DETAILS - ELECTRICAL

E-902

FIRE PROTECTION SYSTEM SPECIFICATIONS

GENERAL PROVISIONS:

1.01 RELATED DOCUMENTS:
A. DRAWINGS AND GENERAL PROVISIONS OF CONTRACT, INCLUDING GENERAL AND SUPPLEMENTAL CONDITIONS AND DIVISION 1 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.

1.02 REGULATIONS AND PERMITS:
A. ALL WORK SHALL BE IN ACCORDANCE WITH TERMS AND CONDITIONS OF THE CONTRACT DOCUMENTS.
B. ALL WORK SHALL COMPLY WITH THE FOLLOWING CODES AND STANDARDS:
1. FLORIDA BUILDING CODE 2017
2. FLORIDA FIRE PREVENTION CODE 2017
3. EDITIONS OF THE NFPA NATIONAL FIRE CODES (NFPA) OR THE LATEST REVISIONS OF THESE CODES AS ADOPTED BY THE AUTHORITY HAVING LAWFUL JURISDICTION, AS FOLLOWS: NFPA - FIRE SPRINKLER SYSTEM. THE FIRE SPRINKLER PROTECTION SYSTEMS INSTALLATION, FLUSHING AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA 13, 24 AND 25.
4. PIPE THREAD PATTERN: ALL THREADS SHALL BE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT SPECIFICATIONS AND NFPA 1963.
5. UL / FM APPROVAL: ALL EQUIPMENT, PIPING, FITTINGS, VALVES, COUPLINGS, HANGERS AND DEVICES SHALL BE APPROVED BY UNDERWRITERS' LABORATORY (UL) AND FACTORY MUTUAL (FM) FOR USE IN FIRE PROTECTION SERVICE.
6. LICENSES: THE FIRE PROTECTION SYSTEMS SHALL BE INSTALLED BY A STATE OF FLORIDA LICENSED FIRE PROTECTION CONTRACTOR.
C. THE CONTRACTOR SHALL MAKE ALL ARRANGEMENTS AND PAY FOR ALL FEES, CHARGES AND PERMITS REQUIRED, AS WELL AS FOR ALL HAULING, RIGGING AND TRANSPORTATION CHARGES.

1.03 DESCRIPTION OF WORK:
A. THE WORK INCLUDED IN THIS SECTION SHALL COMPRISE ALL LABOR, MATERIALS, EQUIPMENT, MACHINERY AND SERVICE INCIDENTAL TO THE DEMOLITION AND WORK TO KEEP EXISTING AREA'S IN OPERATION.
B. THE CONTRACTOR SHALL LAY OUT HIS OWN WORK AND COORDINATE HIS WORK WITH THAT OF OTHER TRADES AND BE RESPONSIBLE FOR ALL MEASUREMENTS.
C. ALL WORK SHALL BE SUBJECT TO APPROVAL OF OWNER OR HIS REPRESENTATIVE.
D. THE FIRE PROTECTION CONTRACTOR SHALL SURVEY SITE AND STUDY CONTRACT DOCUMENTS PRIOR TO BEGINNING CONSTRUCTION. ALL PROBLEMS CONCERNING COORDINATION OF DIFFERING TRADES, INTERFERENCE, LACK OF CEILING OR DUCT SPACE OR ANY PROBLEMS IN UNDERSTANDING THE SPECIFICATIONS HEREIN AND DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT / ENGINEER PRIOR TO CONSTRUCTION.
E. THE FIRE PROTECTION CONTRACTOR SHALL FIELD VERIFY ALL BUILDING CONDITIONS PRIOR TO START OF WORK. ANY DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND WHAT IS SHOWN ON PLAN THAT AFFECT THE WORK SHALL BE BROUGHT TO THE ARCHITECT / ENGINEER'S ATTENTION IMMEDIATELY.
F. CONTRACTOR SHALL CHECK SIZE OF ENTRANCE WAYS TO MAKE SURE SUFFICIENT SPACE IS AVAILABLE FOR ENTRANCE OF EQUIPMENT.
G. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE FOLLOWING:
1. PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING FIRE PROTECTION SYSTEMS INDICATED ON THE DRAWINGS AND WITHIN THIS SPECIFICATION SECTION.

1.04 PRODUCT HANDLING:
A. ALL MATERIALS SHALL BE HANDLED AND STORED IN A MANNER SO AS TO PREVENT DAMAGE. MATERIALS SHALL BE STORED UNDER COVER AND ABOVE GROUND. ALL PRODUCTS SHALL BE SHIPPED TO THE JOB SITE IN UNOPENED CARTONS, CONTAINERS, ETC., AS RECEIVED FROM THE MANUFACTURER.
B. CODES AND STANDARDS: ALL FIRE PROTECTION WORK SHALL BE IN STRICT COMPLIANCE WITH NFPA 13 & 14, FLORIDA LIFE SAFETY CODE AND ALL LOCAL CODES HAVING JURISDICTION.
C. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND FEEDS, ETC., REQUIRED FOR THE EXECUTION OF THIS WORK. CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES BEFORE FABRICATION OR INSTALLATION. OFFSETS AND / OR TRANSITIONS REQUIRED SHALL BE PROVIDED WITHOUT ADDITIONAL COST. CONTRACTOR SHALL COORDINATE AND INSTALL HIS WORK IN A TIMELY MANNER TO PREVENT DELAYS IN THE CONSTRUCTION. PROVIDE ALL MATERIALS REQUIRED TO PROPERLY SUPPORT ALL PIPING AND EQUIPMENT. PIPE HANGERS SHALL BE ADJUSTABLE TYPE AND BE SPACED IN ACCORDANCE WITH THE NFPA 13 CODE.

PRODUCTS:
2.01 MANUFACTURER:
A. SINGLE MANUFACTURER: ALL ITEMS OF A SIMILAR TYPE SHALL BE BY THE SAME MANUFACTURER.

2.02 SPRINKLERS:
A. PROVIDE SPRINKLERS OF PROPER TYPES, RATINGS AND SPACING FOR THE AREAS INVOLVED AS INDICATED ON THE SPRINKLER LEGEND LOCATED ON THE DRAWINGS. PROVIDE APPROPRIATE FINISHES COMPATIBLE WITH SPACE FINISHES BEING SERVED. ACCEPTABLE MANUFACTURERS: VIKING, GRINNELL, AUTOMATIC SPRINKLER, CENTRAL STAR AND RELIABLE VICTAULIC.

B. SPARE FIRE SPRINKLER HEAD CABINET: PROVIDE SUFFICIENT SPARE SPRINKLER HEAD CABINETS TO STORE THE REQUIRED QUANTITIES OF SPRINKLER HEADS. STORAGE CABINETS SHALL BE RED GLOSS, POLYESTER-COATED STEEL CONSTRUCTION. PROVIDE A MINIMUM OF SIX SPARE HEADS OF EACH TYPE AND EACH DIFFERENT TEMPERATURE RATING INSTALLED; PROVIDE 2 INSTALLATION TOOLS OR WRENCHES WITH EACH DIFFERENT TYPE OF SPRINKLER HEAD. CABINET SHALL HAVE A CATCH-LOCK AND CONTINUOUS PIANO HINGE. LOCATE THE SPARE SPRINKLER HEAD CABINET AS DIRECTED BY THE OWNER'S REPRESENTATIVE.

2.03 PIPE AND FITTINGS:
A. ABOVE GROUND PIPE AND FITTINGS:
1. PIPING SHALL BE SCHEDULE 40 BLACK STEEL PIPE CONFORMING TO A ASTM A135 OR ASTM AS3 AND SCHEDULE 10, ASTM A135.
2. THREADABLE THIN WALL BLACK STEEL PIPE CONFORMING TO ASTM A135 OR ASTM 795 WITH A CORROSION RESISTANCE RATING (CRR) OF 1.0 OR GREATER AS MANUFACTURED BY AMERICAN TUBE COMPANY, DYNA-THREAD 40 OR EQUIVALENT.
3. FITTINGS:
A. CAST IRON THREADED FITTINGS, ANSI B16.4, CLASS 125
B. CAST IRON FLANGED FITTINGS, ANSI B16.1, CLASS 125
C. MECHANICAL JOINT, GROOVED COUPLINGS AS MANUFACTURED BY VICTAULIC, ANVIL OR CENTRAL. ALL GROOVE COUPLINGS AND FITTINGS SHALL BE FURNISHED BY A SINGLE MANUFACTURER.

2.04 SUPERVISORY SWITCHES AND WATER FLOW DEVICES:
A. ACCEPTABLE MANUFACTURERS: POTTER ELECTRIC SIGNAL CO., POTTER-ROEMER, SIMPLEX, GEM.
B. GATE VALVE TAMPER SWITCH: PROVIDE AN ELECTRONIC SUPERVISORY TAMPER SWITCH ON EACH ISOLATION VALVE IN THE SPRINKLER SYSTEM. UNIT SHALL HAVE A RED TAMPER-PROOF COVER, WHICH WILL ACTIVATE AN ALARM OR TROUBLE SIGNAL WHEN ADJUSTED. PROVIDE UNIT WITH SINGLE-POLE, DOUBLE THROW SWITCHES AND MOUNTING BRACKET, POTTER ELECTRIC SIGNAL CO. OSYSU-1
C. FLOW SWITCH: PROVIDE AN ELECTRIC FLOW SWITCH WHERE INDICATED OR REQUIRED. FLOW SHALL BE SENSED BY AN IMMERSION PADDLE WITH AN ADJUSTABLE RETARD SETTING FROM 0 TO 70 SECONDS TO MINIMIZE FALSE ALARMS. FLOW SWITCH SHALL HAVE SINGLE POLE, DOUBLE THROW SWITCHES TO ACTIVATE A FLOW ALARM OR TO INDICATE A TROUBLE SIGNAL IF THE FLOW SWITCH HOUSING IS TAMPERED. FLOW ALARM SHALL BE AUTOMATICALLY RESETTING. PROVIDE CLAMP-ON HOUSING TO SECURE UNIT TO PIPE OR THREADED CONNECTION FOR TEE FITTING, POTTER ELECTRIC SIGNAL CO. VSR-F.

2.05 INSPECTORS TEST AND DRAIN:
A. ACCEPTABLE MANUFACTURERS: GJ INNOVATIONS, AGF MANUFACTURING AND TEST DRAIN.
B. SIGHT DRAIN: SIGHT DRAIN SHALL HAVE 2 VIEW WINDOWS TO PROVIDE VISUAL OBSERVATION OF WATER FLOW AND SHALL HAVE FEMALE THREADED CONNECTION. POTTER-ROEMER 017 1/8 17 3/8 174.
C. INSPECTOR'S TEST AND DRAIN: TEST AND DRAIN SHALL BE PROVIDED WITH INTEGRAL SIGHT GLASS, INTEGRAL 1/2 INCH TEST ORIFICE AND POSITIVE POSITIONING OF HANDLE FOR OFF, TEST AND DRAIN OPERATIONS, GJ INNOVATIONS, INC 'SURE-TEST'.
D. HANGERS, SUPPORTS AND SLEEVES:
1. SUPPORT PIPING WITH UL AND FM APPROVED HANGERS. HANGERS AND RODS SHALL BE GALVANIZED.
2. ACCEPTABLE MANUFACTURERS: GRINNELL, B-LINE, HILTI, FEE & MASON, MICHIGAN AND PHD.
3. ADJUSTABLE CLEVIS HANGER: GRINNELL FIG. 260.
4. ADJUSTABLE SWIVEL LOOP HANGER: GRINNELL FIG. 69.
5. BEAM CLAMP: GRINNELL FIG. 92 AND GRINNELL FIG. 218.
6. CONCRETE FASTENERS: GRINNELL STEEL SHELL AND EXPANDER PLUG.
7. CONCRETE INSERT: GRINNELL FIG. 152.
8. RISER CLAMP: GRINNELL FIG. 261.
9. POWDER-DRIVEN INSERTS SHALL NOT BE ACCEPTED.
10. THREADED RODS SHALL BE GALVANIZED COATED. ALL HANGERS SHALL BE GALVANIZED COATED.
E. FIRE STOPPING:
1. ALL PIPES PASSING THROUGH RATED FLOORS OR WALLS SHALL BE SLEEVED AND FIRE STOPPED TO AN EQUIVALENT RATING OF THE FLOOR OR WALL ASSEMBLY. FIRE STOP MATERIALS SHALL MEET ASTM E814 REQUIREMENTS.
2. ACCEPTABLE MANUFACTURERS: HILTI AND 3M.

EXECUTION:
3.01 INSTALLATION:
A. HANGERS: ALL HANGER SPACING SHALL COMPLY WITH THE REQUIREMENTS OF NFPA-13.
B. SPRINKLER HEAD LOCATION: SPRINKLER HEADS SHALL BE INSTALLED NO CLOSER THAN 4 INCHES TO ANY CEILING GRID OR WALL.
C. FLUSHING: THE ENTIRE SYSTEM SHALL BE FLUSHED WITH CLEAN WATER TO REMOVE DEBRIS RESULTING FROM INSTALLATION. FLUSH THROUGH A BURLAP BAG TO RETAIN DEBRIS FOR EXAMINATION.
D. PROHIBITED: DO NOT PAINT THE COVERS OF CONCEALED SPRINKLERS.
E. PROVIDE DRAIN VALVES, PIPES AND TEST CONNECTIONS AS REQUIRED BY NFPA-13. PIPE DRAIN LINES AND TEST CONNECTIONS TO THE EXTERIOR OF THE BUILDING AS INDICATED ON THE DRAWINGS.
F. DRAIN PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPING 5-GALLONS OR LESS AUXILIARY DRAIN VALVES, 3/4 INCH OR LARGER AND PLUGS SHALL BE INSTALLED ON TRAPPED SECTIONS OF PIPE GREATER THAN 5-GALLONS.

3.02 HYDROSTATIC TEST:
A. GENERAL: ABOVE GROUND AND BELOW GROUND PIPING SYSTEMS SHALL BE HYDROSTATICALLY TESTED AT NOT LESS THAN 200 PSI PRESSURE, OR AT 50 PSI IN EXCESS OF THE MAXIMUM PRESSURE, WHICHEVER IS GREATER, FOR A PERIOD OF 2 HOURS. THE TEST PRESSURE SHALL BE READ FROM A GAUGE LOCATED AT THE LOW ELEVATION POINT OF THE INDIVIDUAL SYSTEM OR PORTION OF THE SYSTEM BEING TESTED. THE UNDERGROUND PIPING SHALL NOT HAVE LEAKAGE EXCEEDING THE AMOUNTS SPECIFIED IN NFPA 24. LEAKAGE QUANTITIES SHALL BE DETERMINED BY PUMPING AT THE SPECIFIED TEST PRESSURE FROM A CALIBRATED CONTAINER. REPAIR LEAKING JOINTS AND RETEST AS NECESSARY UNTIL ALL SYSTEMS HAVE BEEN TESTED. TEST THE PIPING BETWEEN THE CHECK VALVE IN THE FIRE DEPARTMENT INLET PIPE AND THE OUTSIDE CONNECTION THE SAME AS THE BALANCE OF THE SYSTEM.

FIRE SPRINKLER LEGEND

SYM	ORF	TEMP	RESPONSE	K-FAC	FINISH	MODEL	REMARKS	PLATE	MFG.	IMAGE	NOTES
●	1/2"	155 DEG	QUICK	5.6	WHITE	VK302	RECESSED	---	VIKING		
✪	1/2"	135 DEG	QUICK	5.6	BRASS	VK462	CONCEALED	WHITE	VIKING		
○	1/2"	155 DEG	QUICK	5.6	BRASS	VK300	UPRIGHT	---	VIKING		
◁	1/2"	155 DEG	QUICK	5.6	WHITE	VK305	HOR. SIDEWALL	WHITE	VIKING		
⊠	1/2"	155 DEG	QUICK	5.6	BRASS	VK-300-D1	UPRIGHT	---	VIKING		
✪	1/2"	155 DEG	QUICK	5.6	CHROME	VK176	DRY PENDANT	CHROME	VIKING		

NOTES:
1. SPRINKLERS SHALL BE ORDINARY TEMPERATURE UNLESS OTHERWISE NOTED.
2. SPRINKLER GUARDS SHALL BE PROVIDED ON ALL SPRINKLER HEADS INSTALLED LOWER THAN 7' ABOVE FINISH FLOOR AND / OR ARE SUBJECT TO DAMAGE.
3. PROVIDE RECESSED, CONCEALED AND SIDEWALL SPRINKLERS WITH ESCUTCHEON IN EXPOSED AREA'S.
4. COORDINATE COLOR SELECTIONS WITH ARCHITECT.

FAC 61G15 COMPLIANCE NOTES

APPLICABLE CODES AND STANDARDS:

FLORIDA BUILDING CODE 2017 6th EDITION
FLORIDA FIRE PREVENTION CODE 2017 6th EDITION
FLORIDA ADMINISTRATIVE CODE 61G15 (2) (B) 1/06/05
NFPA-13, 2013 EDITION
NFPA-24, 2013 EDITION
NFPA-25, 2014 EDITION

(A) POINT OF SERVICE:

THE POINT OF SERVICE IS A NEW FIRE MAIN ENTERING THE BUILDING SUPPLIED BY LOCAL MUNICIPAL WATER DEPARTMENT.

(B) APPLICABLE NFPA STANDARDS TO BE APPLIED:

SHALL COMPLY WITH NFPA 13 2013 CHAPTER
25.1 APPROVAL OF SPRINKLER SYSTEM
25.2 ACCEPTANCE REQUIREMENTS.
25.3 CIRCULATING CLOSED LOOP SYSTEM
25.4 INSTRUCTION
25.5 HYDRAULIC DESIGN INFORMATION SIGNS

(C) CLASSIFICATION OF HAZARD OCCUPANCY FOR EACH ROOM OR AREA:

LIGHT HAZARD AREAS: OFFICE AREAS, SEATING AREAS, LIVING SPACE, ETC.

ORDINARY HAZARD GROUP I: STORAGE ROOMS, MECH. ROOMS AND ELECTRICAL ROOMS.

ORDINARY HAZARD GROUP II: KITCHEN, APPARATUS MAINTENANCE BAY

(D) DESIGN APPROACH:

OFFICE, SEATING, LIVING SPACE:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS. DESIGN APPROACH TO FOLLOW NFPA 13.

DENSITY: .10 GPM / SQ. FT.
AREA OF OPERATION: 1500 SQ. FT. MAX.
SPRINKLER TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 225 SQ. FT.

A HOSE DEMAND OF 100 GPM WILL BE ADDED FOR LIGHT HAZARD CALCULATIONS.

STORAGE, MECH. ROOMS, ELECTRICAL ROOMS:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY UPRIGHT OR PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS.

DENSITY: .15 GPM / SQ. FT.
AREA OF OPERATION: 1500 SQ. FT. MAX.
SPRINKLER TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.

A HOSE DEMAND OF 250 GPM WILL BE ADDED FOR ORDINARY HAZARD I CALCULATIONS.

KITCHEN AND FOOD PREP AREAS, APPARATUS BAY:

SYSTEM TYPE: WET PIPED AUTOMATIC SPRINKLER SYSTEM, USING STEEL SUPPLY PIPING TO NEW STANDARD SPRAY UPRIGHT OR PENDANT, QUICK RESPONSE, AUTOMATIC FIRE SPRINKLER LOCATIONS.

DENSITY: .20 GPM / SQ. FT.
AREA OF OPERATION: 1500 SQ. FT. MAX.
SPRINKLER TEMPERATURE RATING: 155 DEGREE F.
MAX. COVERAGE PER SPRINKLER: 130 SQ. FT.

A HOSE DEMAND OF 250 GPM WILL BE ADDED FOR ORDINARY HAZARD II CALCULATIONS.

(E) CHARACTERISTICS OF THE WATER SUPPLY TO BE USED:

THE WATER SUPPLY IS PROVIDED FROM AN EXISTING PUBLIC WATER PURVEY CIRCULATING MAIN.

(F) FLOW TEST DATA:

REFER TO WATER FLOW TEST DATA SCHEDULE ON THIS SHEET.

(G) VALVING AND ALARM REQUIREMENTS TO MINIMUM POTENTIAL FOR IMPAIRMENTS AND UNRECOGNIZED FLOW OF WATER:

THE FIRE SPRINKLER RISER FOR THIS BUILDING(S) ARE EQUIPPED WITH A WATER FLOW SWITCH WITH A LOCAL ALARM AND OFF-SITE MONITORING. BACKFLOW PREVENTION DEVICE SHALL BE PROVIDED FOR ENTIRE ON SITE SUPPLY LOOP.

(H) MICROBIAL INDUCED CORROSION (MIC):

AS OF THIS DATE THE FIRE MARSHAL HAS SIGNED A LETTER STATING THAT THERE HAVE BEEN NO UNUSUAL PIPE FAILURES IN ANY SPRINKLER SYSTEMS THAT WOULD INDICATE MIC IS PRESENT. THIS FINDING IS ACCEPTABLE BY THE ENGINEER OF RECORD.

(I) BACKFLOW PREVENTION AND METERING SPECIFICATIONS:

THE BACKFLOW PREVENTION ASSEMBLY IS AN EXISTING INSTALLED SYSTEM WITH AN ACCEPTABLE INSPECTION RECORD.

(J) QUALITY AND PERFORMANCE SPECIFICATIONS OF ALL YARD AND INTERIOR FIRE PROTECTION COMPONENTS:

ALL NEW YARD AND INTERIOR FIRE PROTECTION EQUIPMENT SHALL BE UL LISTED FOR FIRE PROTECTION SERVICE AND FM APPROVED.

SCOPE OF WORK:

PROVIDE A NEW FULLY AUTOMATIC WET SPRINKLER SYSTEM WITH FIRE VALVE CABINETS IN ACCORDANCE WITH NFPA 13 AND NFPA 14 APPLICABLE EDITION. CONTRACTOR SHALL SUBMIT PIPING SHOP DRAWINGS FOR PERMIT TO THE FIRE MARSHAL. DRAWINGS SHALL BE 1/8" SCALE PIPING SHOP DRAWINGS AS PRESCRIBED IN SPECIFICATIONS AND AS REQUIRED BY LOCAL CODES. SHOP DRAWINGS SHALL INCLUDE SPRINKLER PIPING CUT LENGTHS, OFFSETS, FITTINGS AND DEVICES, ELEVATIONS, HANGER LOCATIONS, SPRINKLER HEAD COUNT BY TYPE, ELEVATION SECTIONS, HYDRAULIC CALCULATIONS AND OTHER INSTALLATION INFORMATION. THIS SHOP DRAWING MUST BE SIGNED AND SEALED BY THE DELEGATED ENGINEER.

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	CONNECT TO EXISTING
	DEMOLISH TO POINT INDICATED
	NEW SPRINKLER PIPING - SCHEDULE 40 STEEL
	EXISTING PIPING TO REMAIN
	EXISTING PIPING TO BE REMOVED
	EXISTING RECESSED SPRINKLER TO REMAIN
	EXISTING UPRIGHT SPRINKLER TO REMAIN
	NEW SPRINKLER AT NEW LOCATION
	NEW RECESSED SPRINKLER
	NEW UPRIGHT SPRINKLER
	ELBOW, TURNED DOWN
	ELBOW, TURNED UP
	TEE, TURNED UP
	TEE, TURNED DOWN
	CAP
	FLUSHING CONNECTION
	ZONE CONTROL VALVE / FLOW SWITCH / DRAIN RISER
OR	CONTROL VALVE WITH TAMPER SWITCH
	CHECK VALVE
	FLOW SWITCH
	BACKFLOW PREVENTER WITH TAMPER SWITCHES
FDV	STANDPIPE WITH FIRE DEPARTMENT VALVE
	ROOF MANIFOLD
FDC	FIRE DEPARTMENT CONNECTION
PIV	POST INDICATOR VALVE WITH TAMPER SWITCH
FVC	FIRE VALVE CABINET

WATER FLOW TEST DATA

STATIC: 68 PSI
DATE: 08/07/2020
RESIDUAL: 60 PSI
TIME: 10:00 AM
FLOW: 1233 GPM

BY: HERNANDO COUNTY FIRE RESCUE

GENERAL NOTES

1. FIRE PROTECTION SYSTEM SHALL COMPLY WITH THE CURRENTLY ADOPTED VERSION OF NFPA, FLORIDA BUILDING CODE AND STATE FIRE PREVENTION CODE.
2. FINAL INSPECTION AND APPROVAL SHALL BE BY LOCAL FIRE MARSHAL AND ARCHITECT / ENGINEER.
3. SUBMIT SPRINKLER SHOP DRAWINGS AND MATERIAL SUBMITTALS TO THE ARCHITECT / ENGINEER AND FIRE MARSHAL PRIOR TO ANY INSTALLATION.
4. PIPE ROUTING SHOWN IS SCHEMATIC ONLY. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO PROVIDE ANY ADDITIONAL OFFSETS, PIPING, SPRINKLERS AND OTHER COMPONENTS REQUIRED FOR PROPER INSTALLATION AND COORDINATION WITH OTHER TRADES.
5. INSTALL PIPING IN AREAS WITH EXPOSED STRUCTURE AS HIGH AS POSSIBLE TO ALLOW THE OWNER MAXIMUM USE OF SPACE. PREP, PRIME AND PAINT ALL EXPOSED PIPING TO COLOR AS REQUIRED BY THE ARCHITECT. DO NOT PAINT SPRINKLERS.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING DESCRIPTIONS AND HEIGHTS.
7. COORDINATE SPRINKLERS WITH ALL DIFFUSERS, SPEAKERS, LIGHTING FIXTURES AND CEILING SYSTEMS. SPACE SPRINKLERS IN ACCORDANCE WITH NFPA 13 AND LISTING OF THE SPRINKLER.
8. CENTER SPRINKLER LOCATIONS IN THE TILE AS INDICATED ON THE DRAWINGS OR IN HARD CEILING AREAS CENTERED BETWEEN LIGHTS. PROVIDE ARMOVERS OR SWING JOINTS AS REQUIRED.
9. SPRINKLERS IN AREAS WITH EXPOSED STRUCTURE (OBSTRUCTED CONSTRUCTION) SHALL BE INSTALLED WITH DEFLECTOR 1" BELOW THE BOTTOM OF THE BEAM (MAXIMUM 22" BELOW ROOF DECK). EXPOSED BAR JOISTS THAT HAVE SPRAY ON FIRE-PROOFING THAT MAKES THE JOIST SOLID SHALL BE TREATED LIKE A BEAM WITH THE SPRINKLERS 1" BELOW THE BOTTOM OF THE FIRE-PROOFING.
10. SLEEVE ALL PIPING PENETRATIONS THROUGH WALLS, CEILING AND FLOORS. SLEEVE AND / OR FIRE STOP ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS AND FLOORS WITH UL LISTED ASSEMBLIES. FIRE STOP ASSEMBLIES SHALL BE EQUAL OR EXCEED THE RATING OF THE WALL, CEILING OR FLOOR. SEE ARCHITECTURAL DRAWINGS FOR FINAL FINISHES.
11. PROVIDE ACCESS PANELS TO ALL VALVES ABOVE NON-ACCESSIBLE CEILINGS AND CHASES.
12. PROVIDE A PERMANENTLY ATTACHED NAME TAG ATTACHED TO THE RISER STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM.
13. PROVIDE SPRINKLERS UNDER ALL EXPOSED DUCTWORK / OBSTRUCTIONS OVER 48" WIDE AND SPACE SPRINKLERS AROUND ALL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13. SPRINKLERS UNDER DUCTS ARE NOT INDICATED ON DRAWINGS BUT ARE REQUIRED AND SHALL BE PROVIDED IN ACCORDANCE WITH NFPA SPRINKLER LOCATIONS UNDER DUCTWORK AND AROUND OBSTRUCTIONS SHALL BE GOVERNED BY FINAL INSTALLED LOCATIONS. THESE SPRINKLERS ARE NOT INDICATED, BUT ARE REQUIRED.
14. PROVIDE SPRINKLER GUARDS IN MECHANICAL ROOMS, ELECTRIC ROOMS, TELEPHONE ROOMS, ELEVATOR ROOMS, ELEVATOR SHAFTS AND ON ANY SPRINKLERS LESS THAN 7'-0" ABOVE THE FLOOR.
15. IF SYSTEM PRESSURE EXCEEDS 100 PSI, ALL HANGERS ON END SPRINKLERS IN PENDANT POSITION SHALL BE WITHIN 12" OF END OF LINE IN ACCORDANCE WITH NFPA 13.
16. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (SERVERS, COMM., ELEC. PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUNNING OVER ELECTRICAL SHALL BE RE-ROUTED AT NO ADDITIONAL COST.
17. FIRE DEPARTMENT CONNECTIONS TO SPRINKLER SYSTEMS, STANDPIPES, YARD HYDRANTS OR ANY OTHER FIRE HOSE CONNECTION SHALL BE COMPATIBLE WITH THE CONNECTIONS USED BY THE LOCAL FIRE DEPARTMENT.
18. USE EITHER FLEXIBLE OR HARD PIPE TO SPRINKLERS.
19. MATCH COLOR OF ALL SPRINKLERS WITH CEILING COLOR.

SHEET INDEX

SHEET NUMBER	SHEET NAME
FP-000	LEGEND - FIRE PROTECTION
FP-100	SITE PLAN - FIRE PROTECTION
FP-201	LEVEL 1 - CEILING PLAN - FIRE PROTECTION
FP-901	DETAILS - FIRE PROTECTION

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STATE OF FLORIDA
DAVID KENNETH JENSEN
No. 34608
REGISTERED ARCHITECT

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HERNANDO COUNTY FIRE STATION #5

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Project number
1932

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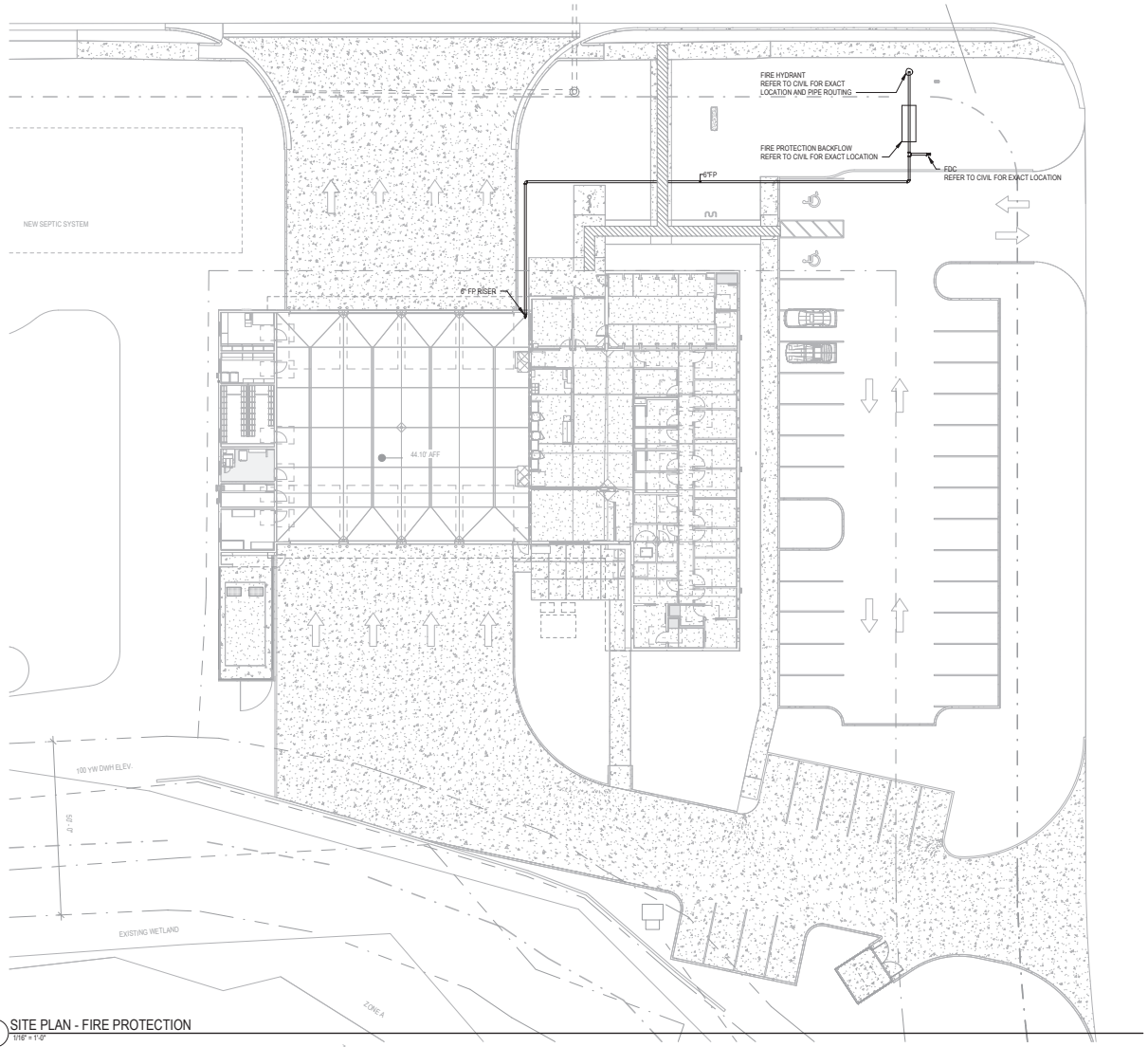
LEGEND - FIRE PROTECTION

FP-000



1 SITE PLAN - FIRE PROTECTION
1/16" = 1'-0"

GENERAL NOTES

1. INFORMATION SHOWN ON THIS SHEET IS FOR REFERENCE ONLY. SEE CIVIL PLANS FOR EXACT LOCATIONS AND PIPE SIZING.

KEY NOTES

NUMBER	NOTES

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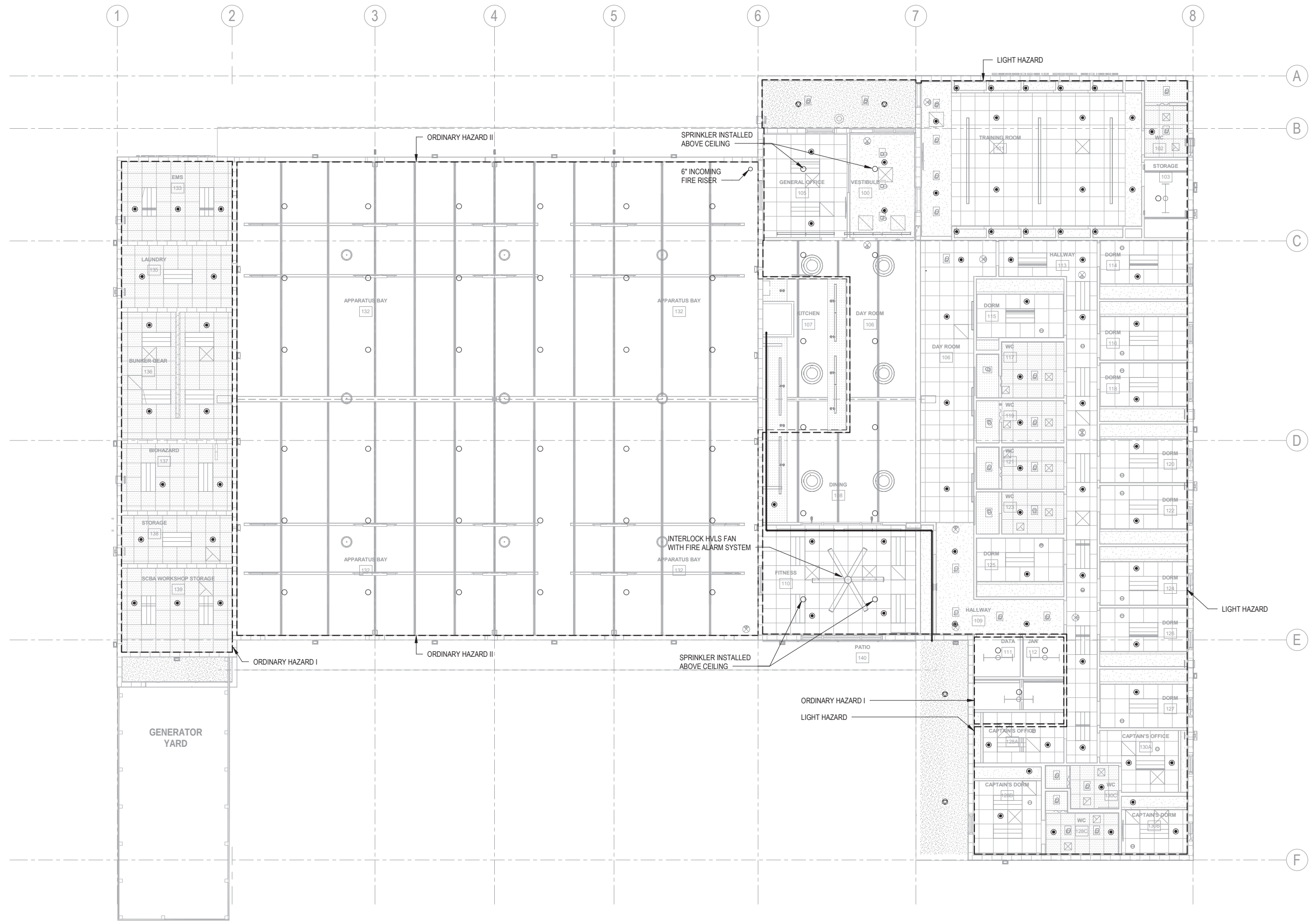
SITE PLAN - FIRE PROTECTION

FP-100



1 LEVEL 1 - FLOOR PLAN - FIRE PROTECTION

1/8" = 1'-0"

GENERAL NOTES

KEY NOTES

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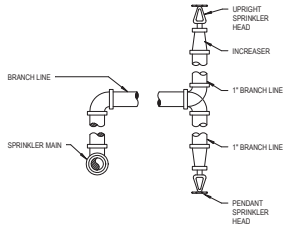
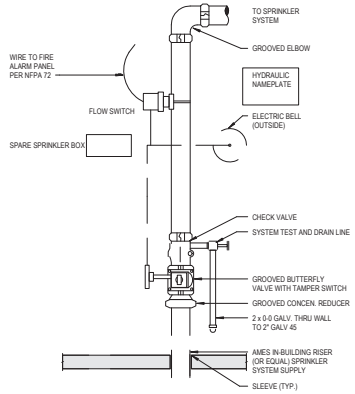
LEVEL 1 - CEILING PLAN - FIRE PROTECTION

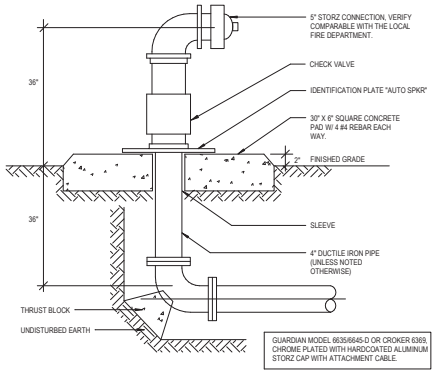
FP-201



SPRINKLER INSTALLATION DETAIL | E



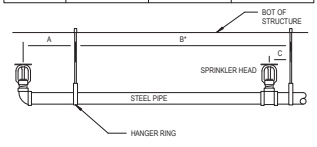
SPRINKLER RISER - WET PIPE | C



FIRE DEPARTMENT CONNECTION DETAIL (STORZ) | A

HANGER LOCATION DETAIL

PIPE SIZE	A	B*	C
1"	3'-0" MAX.	12'-0" MAX.	3" MIN.
1-1/2"	4'-0" MAX.	12'-0" MAX.	3" MIN.
2"-8"	5'-0" MAX.	15'-0" MAX.	3" MIN.



USE 3/8" DIAMETER ROD FOR PIPE DIAMETER SIZE 1" THROUGH 4"
USE 1/2" DIAMETER ROD FOR PIPE DIAMETER SIZE 5" THROUGH 8"

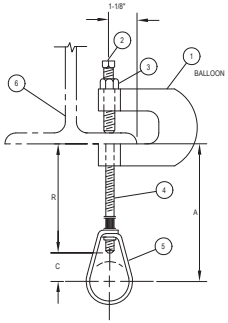
MAX HANGER SPACING FOR STEEL PIPE | F

COMPONENTS:

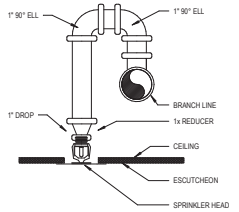
1. C-CLAMP
2. SET SCREW
3. LOCK NUT
4. HANGER ROD
5. ADJUSTABLE HANGER RING
6. STEEL BEAM OR BAR JOIST

DESIGN DATA FOR C-CLAMP HANGER

NOMINAL PIPE SIZE	MINIMUM A DIMENSION	HANGER TAKEOUT	ROD DIAMETER
	INCHES	INCHES	INCHES
1/2	3 1/2	-1 1/4	3/8
3/4	3 1/2	-1 1/4	3/8
1	3 1/2	-1 1/4	3/8
1 1/4	3 3/4	-1 1/2	3/8
1 1/2	4	-1 1/2	3/8
2	4 1/4	-1 3/4	3/8
2 1/2	5	-2 1/4	3/8
3	5 1/2	-2 1/2	3/8
4	6	-3	3/8
5	6 3/4	-3 3/4	1/2
6	7 3/4	-4 1/2	1/2
8	9 1/4	-6	1/2



STANDARD C-CLAMP PIPE HANGER | D



RETURN BEND | B

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Brian Volt, P.E. #67838

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DETAILS - FIRE PROTECTION

FP-901

FIRE ALARM

SYMBOL	DESCRIPTION
	FACP: FIRE ALARM CONTROL PANEL FATC: FIRE ALARM TERMINAL CABINET FAAP: FIRE ALARM ANNUNCIATOR PANEL EVAC: FIRE ALARM VOICE / EVAC. UNIT
P	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM HORN / STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM SPEAKER / STROBE ONLY DEVICE MINIMUM 75cd RATING
	FIRE ALARM SPEAKER DEVICE
	FIRE ALARM HORN DEVICE MINIMUM 75cd RATING
	FIRE ALARM STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM HORN / STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM SPEAKER / STROBE ONLY DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM SPEAKER DEVICE - CEILING MOUNTED
	FIRE ALARM HORN DEVICE MINIMUM 75cd RATING - CEILING MOUNTED
	FIRE ALARM HEATER DETECTOR - CEILING MOUNTED
	FIRE ALARM SMOKE DETECTOR - CEILING MOUNTED SB: SOUNDER BASE I: IONIC CO: CARBON MONOXIDE
	FIRE ALARM SMOKE DETECTOR - WALL MOUNTED SB: SOUNDER BASE CO: CARBON MONOXIDE UF: UNDERFLOOR
S/R	FIRE ALARM DUCT SMOKE DETECTOR S: SUPPLY ....R: RETURN
	TAMPER SWITCH
	FLOW SWITCH
R	FIRE ALARM RELAY
DC	ELECTROMAGNETIC DOOR CONTACT
DH	DOOR HOLDER
RA	FIRE ALARM REMOTE ALARM INDICATOR WITH TEST SWITCH, FLUSH CEILING MOUNTED, WALL MTD. CENTER LINE 48" A.F.F. IN MECHANICAL ROOMS
MM	MONITORING MODULE
K	FIRE ALARM KNOX BOX

SECURITY SYSTEM

SYMBOL	DESCRIPTION
KP	KEYPAD
CR	CARD READER
CK	CARD READER / KEYPAD
BR	BIOMETRIC READER
MD	DIRECTIONAL MOTION DETECTOR
MD	360 DEGREE MOTION DETECTOR
ML	ELECTRO MAGNETIC LOCK
EL	ELECTRICAL LOCK
EM	ELECTRIC MORTISE LOCK
DE	DELAYED EGRESS LOCK
DC	DOOR / WINDOW CONTACT
	FIXED CCTV CAMERA x = 1,2,3....CAMERA TYPE
#	PAN / TILT / ZOOM CCTV CAMERA x = 1,2,3....CAMERA TYPE
S	ALARM SIREN WP: WEATHERPROOF
	SECURITY PANEL
KS	KEY SWITCH
RR	REMOTE DOOR RELEASE BUTTON
D x	DURESS BUTTON X = TYPE
IM x	INTERCOM MASTER STATION X = 1,2,3....TYPE
IS x	INTERCOM SUB-STATION
RS	REQUEST TO EXIT MOTION SENSOR
RB	REQUEST TO EXIT PUSH-BUTTON
PC	PERSONAL COMPUTER WORKSTATION
CP	SECURITY CAMERA POLE. POLE TO MATCH UTILITY PACKAGE SPECIFICATIONS FOR LIGHTING POLES IN THE SAME AREA
SD	SECURITY SOUND DETECTOR

AUDIO / VIDEO / PAGING SYSTEMS

SYMBOL	DESCRIPTION
X,Y,Z	FLAT PANEL DISPLAY 'X' DENOTES SCREEN SIZE 'Y' DENOTES DISPLAY PROGRAM 'A' = AUDIO / VISUAL SYSTEM 'C' = CATV SYSTEM 'P' = AIRPORT INFORMATION SYSTEM 'Z' DENOTES HEIGHT TO BOTTOM OF UNIT
	OVERHEAD PROJECTOR - CEILING MOUNTED
x	MOTORIZED PROJECTION SCREEN, SIZE SPECIFIED ON PLANS
AV x	AUDIO - VISUAL OUTLET; WALL MOUNTED WITH ADJACENT DEDICATED DUPLEX RECEPTACLE BY DIVISION 26
TS	WALL MOUNTED TOUCH SCREEN AUDIO / VIDEO CONTROL
S x w	CEILING MOUNTED SPEAKER 'X' DENOTES TYPE 'Y' DENOTES ZONE 'W' DENOTES WATTAGE
SM x w	WALL MOUNTED SPEAKER 'X' DENOTES TYPE 'Y' DENOTES ZONE 'W' DENOTES WATTAGE
M x	MICROPHONE 'X' DENOTES TYPE
SM	SENSE MICROPHONE
MC x	MASTER CLOCK 'X' DENOTES TYPE 'A' DENOTES ANALOG 'D' DENOTES DIGITAL
VR	INTERCOM VOICE ACTIVATED RELAY
S	INTERCOM WALL MOUNTED SPEAKER
PP	INTERCOM ADMINISTRATIVE PHONE
PS	INTERCOM CALL-IN SWITCH
IR	AUDIO INFRARED WIRELESS RECEIVER
AV	AUDIO VISUAL OUTLET

GENERAL SYSTEM NOTES

1. ALL CONDUIT ABOVE GRADE SHALL BE NMC OR EMT, ALL CONDUIT BELOW GRADE SHALL BE PVC UNLESS OTHERWISE NOTED ON DRAWINGS.
2. PRODUCTS SHALL BE RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
3. WORKING CLEARANCES AROUND ELECTRICAL EQUIPMENT SHALL BE MAINTAINED IN COMPLIANCE WITH THE NATIONAL ELECTRICAL CODE ARTICLE 110. COORDINATE EQUIPMENT INSTALLATION TO MAINTAIN REQUIRED CLEARANCES.
4. IF AN OUTLET BOX IS REQUIRED TO BE LOCATED IN AN ASSEMBLY OR PARTITION RATED AS 'FIRE / SMOKE' OR IDENTIFIED AS EITHER 'FIRE / SMOKE' OR 'SMOKE' THEN ALL THE FOLLOWING CONDITIONS SHALL BE MET.
   - 4.1 THE OUTLET BOX SHALL BE METALLIC.
   - 4.2 THE OUTLET BOX OPENINGS SHALL OCCUR ONLY ON ONE SIDE OF THE FRAMING SPACE.
   - 4.3 THE OUTLET BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES.
   - 4.4 ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE WALL BOARD MATERIAL SHALL BE COMPLETELY SEALED WITH APPROVED MATERIALS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS FOR THE PROJECT.
   - 4.5 PROVIDE A SUPPLEMENTAL BARRIER AROUND OUTLETS LARGER THAN 16 INCHES SO THAT THE ORIGINAL RATING OF THE PENETRATION IS MAINTAINED.
   - 4.6 THE TOTAL AGGREGATE SURFACE AREA OF ALL PENETRATIONS SHALL NOT EXCEED 100 SQUARE INCHES PER 100 SQUARE FEET.
   - 4.7 THE OUTLET BOX SHALL BE SEPARATED FROM OPENINGS ON THE OPPOSITE SIDE OF THE RATED PARTITION BY A MINIMUM HORIZONTAL DISTANCE OF 24 INCHES.
   - 4.8 THE ANNULAR SPACE SHALL NOT EXCEED 1/8" INCH BETWEEN THE EDGES OF THE OUTLET BOX AND THE EDGES OF THE OPENING.
5. THE OUTLET BOX SHALL BE SECURELY FASTENED TO A PARTITION FRAMING MEMBER BY MEANS OF AN APPROVED ATTACHMENT METHOD.
6. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS ARE APPROXIMATE. COORDINATE EXACT EQUIPMENT LOCATION AND CONNECTION REQUIREMENTS IN THE FIELD PRIOR TO INSTALLATION.
7. FOR EXACT LOCATION OF CEILING MOUNTED EQUIPMENT REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN. LOCATIONS OF EQUIPMENT NOT INCLUDED ON THE REFLECTED CEILING PLAN SHALL BE COORDINATED WITH THOSE ITEMS SHOWN. COORDINATION OF CEILING MOUNTED EQUIPMENT SHALL BE DONE PRIOR TO ANY ROUGH-IN. NOTIFY ENGINEER OF ANY DISCREPANCY.
8. PROVIDE FINAL CONNECTIONS TO OWNER PROVIDED EQUIPMENT WHERE INDICATED ON THE DRAWINGS AND SPECIFICATIONS.
9. PRIOR TO ROUGH-IN AND INSTALLATION OF ANY FLOOR MOUNTED DEVICE, VERIFY LOCATION WITH THE OWNER AND ARCHITECT.
10. VERIFY AND COORDINATE THE LOCATION OF REQUIRED DIVISION 28 OUTLETS WITH OTHER TRADE DRAWINGS AND OWNER PROVIDED EQUIPMENT.
11. EACH TELEVISION OUTLET LOCATION SHOWN, SHALL HAVE A DOUBLE GANG OUTLET BOX WITH A SINGLE GANG PLASTER RING AND (1) ONE INCH CONDUIT STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OF TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED.
12. THE DESIGNATION 'N.I.C.' SHALL DENOTE ITEMS WHICH ARE 'NOT IN CONTRACT'.
13. THE DESIGNATION 'U.S.C.' SHALL DENOTE ITEMS WHICH ARE 'UNDER SEPARATE CONTRACT'.
14. THE DESIGNATION 'F.B.O.' SHALL DENOTE ITEMS WHICH ARE 'FURNISHED BY OTHERS'.
15. THE DESIGNATION 'O.F.E.' SHALL DENOTE ITEMS WHICH ARE 'OWNER FURNISHED EQUIPMENT'.
16. ALL RACEWAY SYSTEMS SHOWN TO SUPPORT THE INSTALLATION OF THE DIVISION 27 AND 28 EQUIPMENT SHALL BE PROVIDED UNDER THIS CONTRACT. PROVIDE COORDINATION FOR THE INSTALLATION OF THIS RACEWAY WITH THE ELECTRICAL CONTRACTOR.
17. THE SYMBOL LEGEND SHOWN ON THIS SHEET ARE ALL INCLUSIVE, SYMBOLS INCLUDED IN THE LEGEND MAY OR MAY NOT BE USED FOR THIS PROJECT.
18. THE FLOOR MOUNTED VOICE / DATA OUTLET SHALL HAVE A SINGLE GANG SPACE WITHIN THE FLOOR BOX AND A (1) 1" CONDUIT CONCEALED IN SLAB THAT IS STUBBED UP TO AN ACCESSIBLE LOCATION ABOVE THE FINISHED CEILING OR TO AN ACCESSIBLE CABLE TRAY WHERE PROVIDED. RACEWAY INSTALLATION BY ELECTRICAL CONTRACTOR.
19. ALL BONDING AND GROUNDING ELEMENTS UTILIZED FOR THE TECHNOLOGY SYSTEM CABLING SYSTEM SHALL BE IN COMPLIANCE WITH SPECIFICATIONS.
20. PROVIDE ALL SLEEVES AS REQUIRED FOR ALL LOW VOLTAGE CABLE PATHWAYS. RESTORE THE FIRE RATING OF THE SURFACE, ONCE SLEEVES ARE INSTALLED. SLEEVE ASSEMBLIES SHALL BE LISTED FOR THE MEDIUM BEING PENETRATED.
21. CABLE UNDER SLAB SHALL USE INDOOR / OUTDOOR JACKET.
22. ALL REQUIRED JUNCTION BOXES ARE NOT SHOWN ON FLOOR PLANS. PROVIDE JUNCTION BOXES AS REQUIRED PER SPECIFICATIONS.
23. ALL RACEWAYS SHOWN ON THESE DRAWINGS ARE ONLY FOR TECHNOLOGY SYSTEMS. FOR ELECTRICAL RACEWAYS, SEE ELECTRICAL DRAWINGS.

SECURITY SYSTEM NOTES

1. ALL DOUBLE DOORS ARE TO RECEIVE (1) DOOR POSITION SWITCH ON EACH DOOR LEAF AND SHALL REPORT AS ONE ALARM POINT.
2. ALL 120V POWER WIRING SHALL BE INSTALLED IN A SEPARATE CONDUIT.
3. ALL CONDUIT ABOVE GRADE SHALL BE METALLIC, ALL CONDUIT BELOW GRADE SHALL BE PVC UNLESS OTHERWISE NOTED ON DRAWINGS.
4. ALL CARD READERS AND KEYPADS DEDICATED FOR ELEVATOR FLOOR CONTROL ARE SHOWN INSIDE THE ELEVATOR CAB ON THE LOWEST LEVEL FLOOR PLAN TO WHICH THE ELEVATOR TRAVELS.
5. ALL CONDUIT, WIRING AND ASSOCIATED BACK BOXES SHALL BE FULLY CONCEALED WITHIN WALLS, FLOORS AND CEILINGS.
6. INSTALLATION OF BALANCE TWISTED PAIR CABLE SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 271000 GUIDELINES, CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
   - 6.1 THE MAXIMUM PULLING TENSION SHALL NOT EXCEED 25 POUNDS TO AVOID STRETCHING THE CONDUCTORS.
   - 6.2 THE MINIMUM BEND RADIUS OF THE CABLE SHALL NOT BE LESS THAN FOUR TIMES THE OUTSIDE DIAMETER OF THE CABLE.
   - 6.3 THE CABLE SHALL BE INSTALLED WITHOUT KINKS OR TWISTS. THE APPLICATION OF CABLE TIES SHALL NOT DEFORM THE CABLE BUNDLE.
   - 6.4 STRIP BACK ONLY AS MUCH CABLE JACKET AS REQUIRED TO TERMINATE THE CABLE. CABLE PAIRS SHALL NOT BE UNTWISTED MORE THE 1/2".
7. INSTALLATION OF FIBER OPTIC CABLES SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 271000. CABLE INSTALLATION AND TERMINATIONS THAT DO NOT COMPLY SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST.
   - 7.1 THE BEND RADIUS FOR HORIZONTAL FIBER OPTIC CABLE SHALL NOT BE LESS THAN 1 INCH UNDER NO-LOAD CONDITIONS. WHEN UNDER A MAXIMUM TENSILE LOAD OF 50 LBF, THE BEND RADIUS SHALL NOT BE LESS THAN 2 INCHES.
   - 7.2 THE BEND RADIUS FOR INTRABUILDING OPTICAL FIBER BACKBONE SHALL NOT BE LESS THAN THAT RECOMMENDED BY THE MANUFACTURER IF NO RECOMMENDATION IF KNOWN, THEN THE APPLIED BEND RADIUS SHALL NOT BE LESS THAN 10 TIMES THE CABLE OUTSIDE DIAMETER UNDER NO-LOAD CONDITIONS AND NOT LESS THAN 15 TIMES THE CABLE OUTSIDE DIAMETER WHEN THE CABLE IS UNDER TENSILE LOAD.
8. COORDINATE LOCATION OF ALL FIRE RATED PENETRATIONS PRIOR TO PROCEEDING WITH INSTALLATION. ALL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE COMPLETELY SEALED WITH A LISTED FIRE STOP SYSTEM IN ACCORDANCE WITH NFPA AND THE AUTHORITY HAVING JURISDICTION.
9. THE DESIGNATION 'D.H.C.' SHALL DENOTE ITEMS WHICH ARE 'DOOR HARDWARE CONTRACTOR'.

BROADBAND TELEVISION SYSTEM

SYMBOL	DESCRIPTION
	2-WAY SPLITTER
	3-WAY SPLITTER
	4-WAY SPLITTER
x	AMPLIFIER
	DIRECTIONAL COUPLER
TV	TELEVISION OUTLET - WALL MOUNTED AT STANDARD OUTLET HEIGHT UNLESS OTHERWISE NOTED. ADJACENT DUPLEX RECEPTACLE BY ELECTRICAL CONTRACTOR

BASIC MATERIALS

SYMBOL	DESCRIPTION
X,Y,Z	JUNCTION BOX (LABEL COVER WITH PERMANENT MARKER. BOX WITH NO NUMBER IS NOT REFERENCED FROM OTHER SHEETS) 'X' DENOTES USE (P-PAGING OR S-SECURITY) 'Y' DENOTES FLOOR 'Z' DENOTES NUMBER
J	JUNCTION BOX - FLOOR MOUNTED
J	JUNCTION BOX - PEDESTAL MOUNTED
PB	IN-GROUND PULLBOX
	CONDUIT CONCEALED ABOVE CEILING OR WALL. ALL CONDUITS ARE 1" UNLESS OTHERWISE NOTED
	CONDUIT CONCEALED IN SLAB, UNDERGROUND OR UNDER FLOOR. ALL CONDUITS ARE 1" UNLESS OTHERWISE NOTED
	CONDUIT EXPOSED
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	CONDUIT STUB
	CONDUIT CONTINUED
	SLEEVE TURNING UP
	SLEEVE TURNING DOWN
	CABLE TRAY
	LADDER TRAY
	WALL PENETRATION CONDUIT SLEEVE

STRUCTURED CABLING SYSTEMS LEGEND

SYMBOL	DESCRIPTION
A,N	COMMUNICATIONS OUTLET, MOUNTED AT RECEPTACLE HEIGHT UNLESS OTHERWISE NOTED. MODULE AND FACEPLATE DESCRIPTIONS AS INDICATED IN THE SPECIFICATIONS 'N' = NUMBER OF 8P8C OUTLETS 'A' = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE ADAPTER, (P)OLE, (R)ACEWAY, (D)OUBLE GANG FLUSH, (PD) PEDESTAL, (L)FLOOR
W	WALL TELEPHONE OUTLET FOR WALL PHONE. MOUNTED AT 48" ABOVE FINISHED FLOOR TO CENTER
WAP	CEILING MOUNTED WIRELESS ACCESS POINT OUTLET. 'X' - MOUNTING (F)LUSH, (S)URFACE, (C)EILING 'N' - NUMBER OF 8P8C JACKS
S,SYS	TELEPHONE OUTLET IN ELEVATOR MACHINE ROOM. (S)URFACE MOUNTED
X,Y,Z	COMBINED VOICE / DATA, AUDIO / VIDEO AND POWER OUTLETS IN FLOOR BOX. POWER RECEPTACLE IS SHOWN FOR REFERENCE ONLY. CONDUIT, BOX AND POWER RECEPTACLE PROVIDED BY DIV. 26. REFER TO DETAILS FOR FLOOR BOX CONFIGURATION. 'Z' = TYPE 'Y' = NUMBER OF 8P8C JACKS 'X' = MOUNTING (F)LUSH, (S)URFACE, (M)ODULAR FURNITURE ADAPTER, (P)OLE, (R)ACEWAY, (D)OUBLE GANG FLUSH, (PD) PEDESTAL, (L)FLOOR

SHEET INDEX

SHEET NUMBER	SHEET NAME
T-000	LEGEND - TECHNOLOGY
T-100	SITE PLAN - TECHNOLOGY
T-201	FIRST FLOOR PLAN - TECHNOLOGY
T-901	DETAILS - TECHNOLOGY
T-902	DETAILS - TECHNOLOGY

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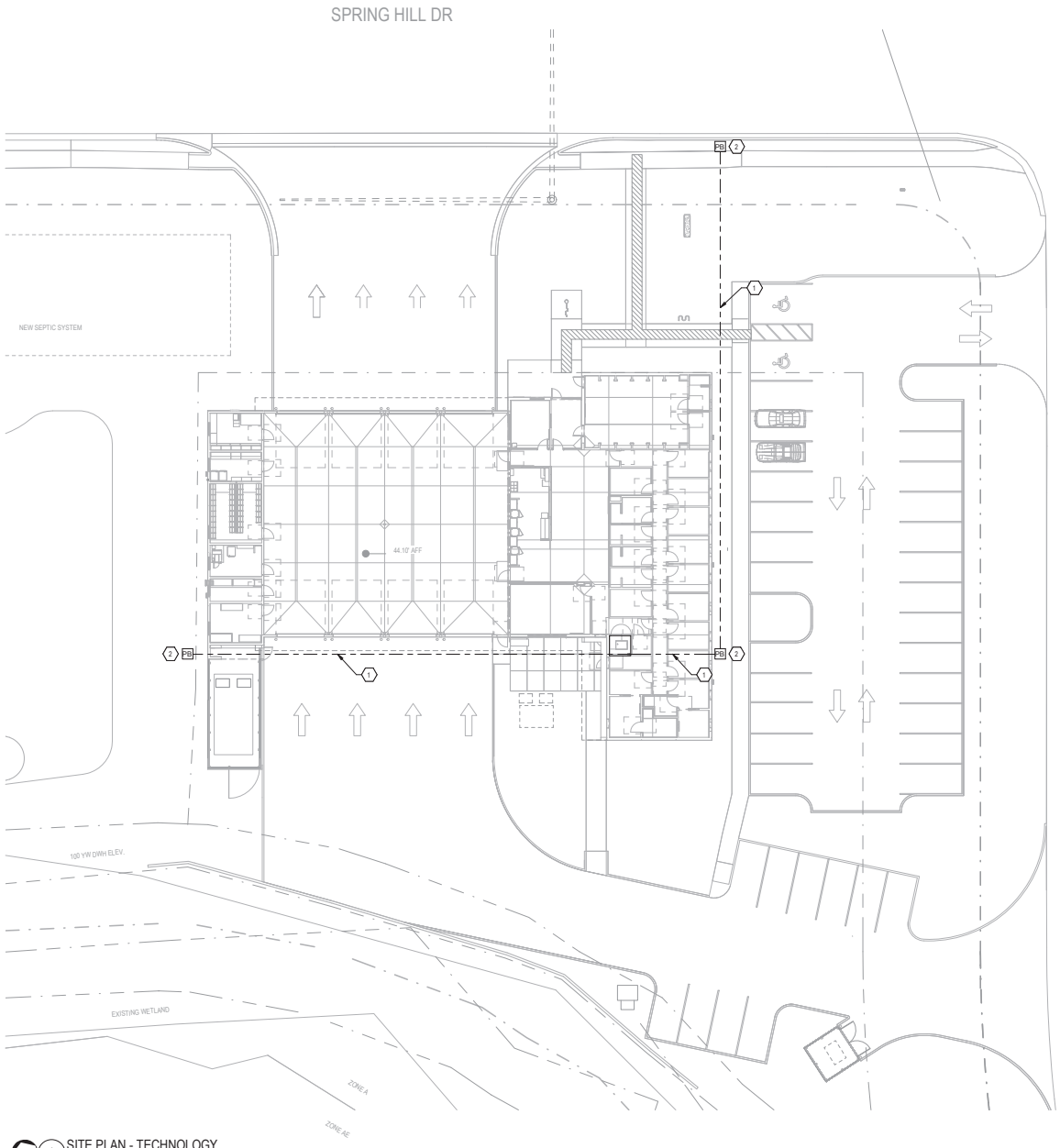
LEGEND - TECHNOLOGY

T-000



1 SITE PLAN - TECHNOLOGY
1/16" = 1'-0"

GENERAL NOTES

A. XXX

KEY NOTES

NUMBER	NOTES
1	PROVIDE TWO (2) 2" CONDUITS.
2	PROVIDE 24"x 24" IN GROUND PULL BOX.

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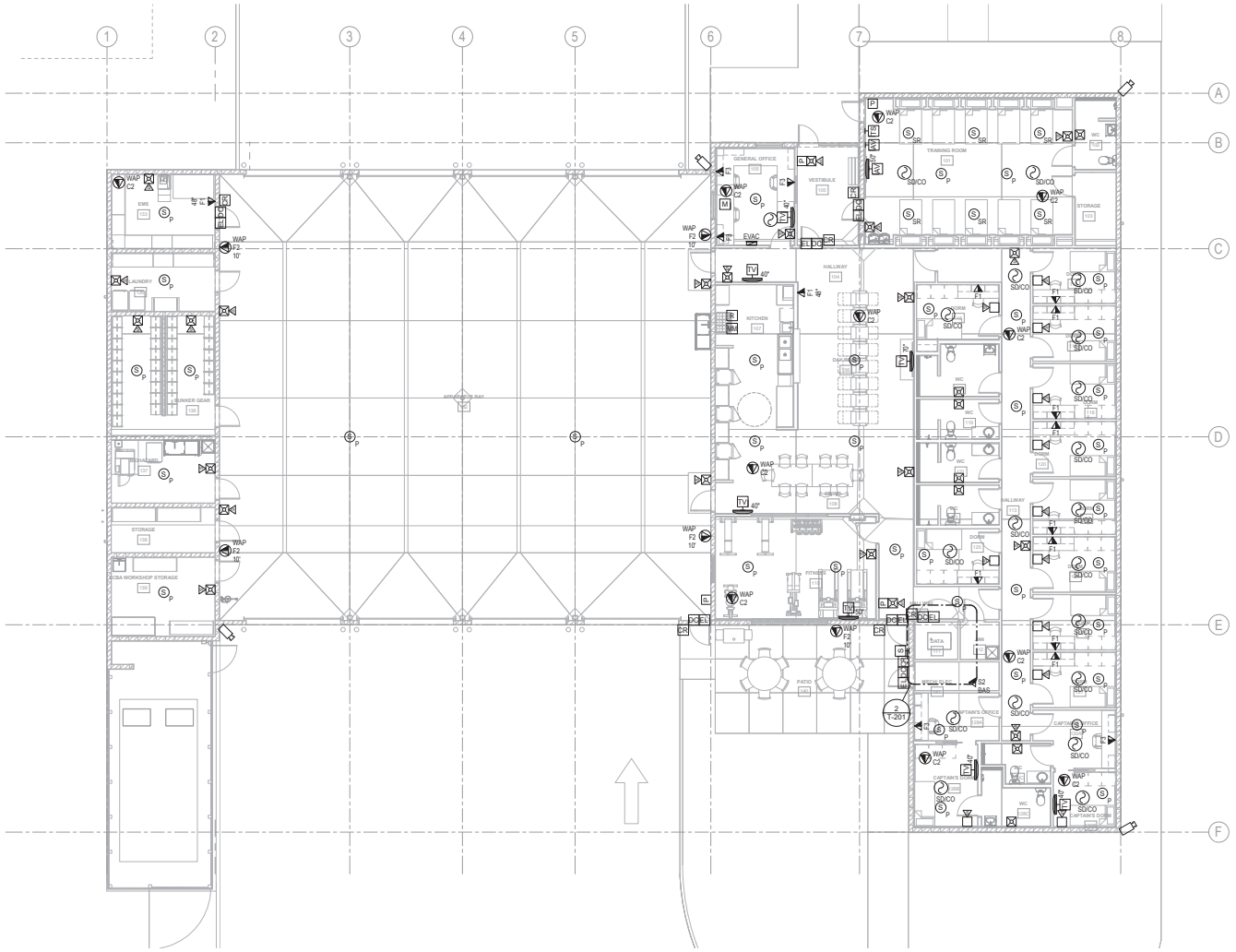
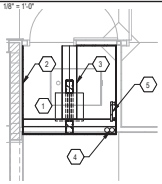
SITE PLAN - TECHNOLOGY

T-100



1 LEVEL 1 - FLOOR PLAN - TECHNOLOGY
1/8" = 1'-0"



2 DATA 111 - ENLARGED PLAN - TECHNOLOGY
1/4" = 1'-0"

GENERAL NOTES

A CONFIRM ALL 911 IT COORDINATION WITH FIRE DEPARTMENT

B COORDINATE ALL CAMERA FINAL LOCATIONS W/ OWNER AND APPROVED VENDOR

KEY NOTES

NUMBER	NOTES
1	PROVIDE TWO POST RACK WITH VERTICAL CABLE MANAGERS.
2	PROVIDE 3/4" PLYWOOD WITH TWO COATS OF FIRE RETARDANT PAINT ALONG WALL. (TYPICAL)
3	PROVIDE 12" LADDER TRAY. (TYPICAL)
4	STUB CONDUITS 3" AFF FROM UNDERGROUND AT THIS LOCATION. PROVIDE 12" LADDER TRAY RUN VERTICALLY ON WALL FROM STUB OUT TO HORIZONTAL LADDER TRAY.

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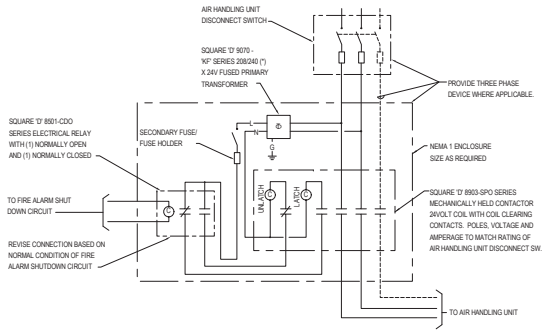
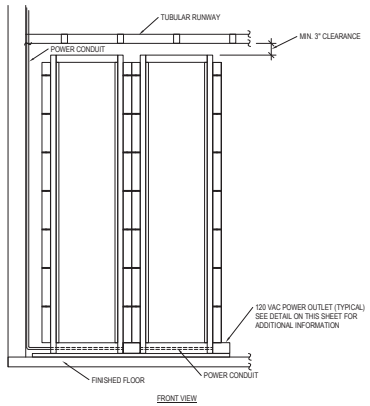
FIRST FLOOR PLAN - TECHNOLOGY

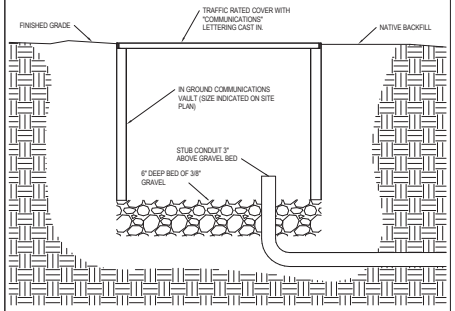
T-201



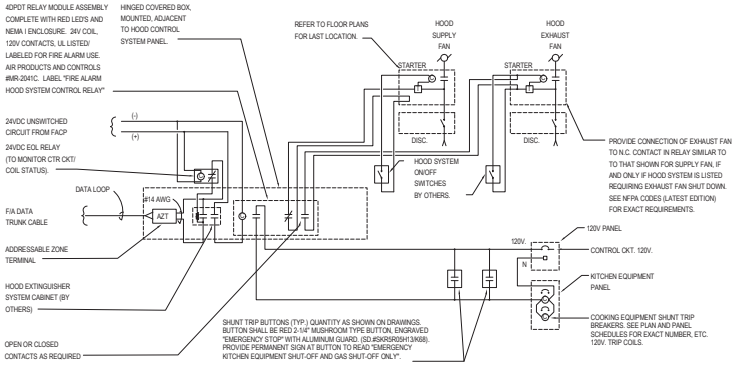
AIR HANDLING UNIT FIRE ALARM SHUTDOWN DIAGRAM | G



RACK POWER INSTALLATION DETAIL | D



IN GROUND COMMUNICATIONS VAULT | A



NOTES:

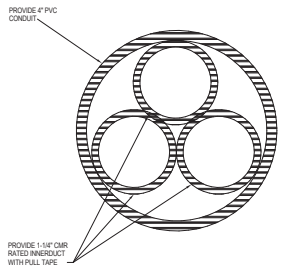
1) STARTER FOR FANS BY DIV. 15 CONTRACTOR UNLESS ELSEWHERE. REFER TO DRAWINGS AND SPECIFICATIONS.

2) COORDINATE ALL CONTROL WIRING WITH HOOD INSTALLER CONTRACTOR, GENERAL CONTRACTOR, HOOD SUPPRESSION SYSTEM CONTRACTOR, ETC. PROVIDE ALL ELECTRICAL WORK AS REQUIRED.

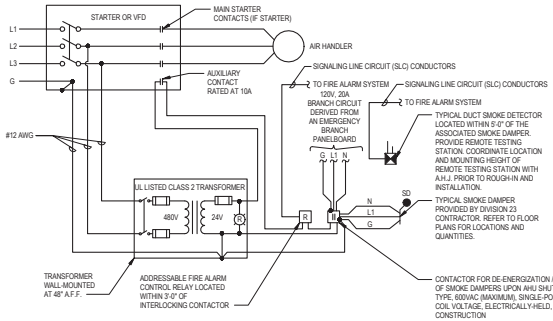
3) WIRING DIAGRAM REFLECTS CONNECTIONS FOR HOOD SUPPLY FAN SHUT-DOWN AND HOOD EXHAUST FAN TO CONTINUE RUNNING OR START-UP UPON ACTIVATION OF THE HOOD EXTINGUISHER SYSTEM. COORDINATE HOOD FAN CONTROL SEQUENCING WITH HOOD MANUFACTURER AND CONNECT AS REQUIRED TO COMPLY WITH THE U.L. LISTING.

4) MODIFY DIAGRAM ON AS-BUILTS TO REFLECT FINAL CONNECTIONS, ETC. LAMINATE WIRING DIAGRAM AND PROVIDE AT HOOD SYSTEM CONTROL SYSTEM PANEL AND F/A RELAY ENCLOSURE.

HOOD SYSTEM CONTROL WIRING DIAGRAM WITH ADDRESSABLE FIRE ALARM SYSTEMS | E



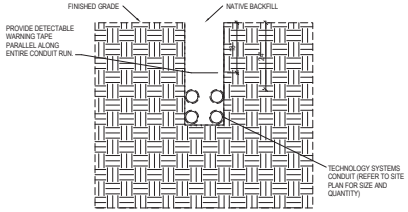
UNDERGROUND CONDUIT WITH INNERDUCT | B



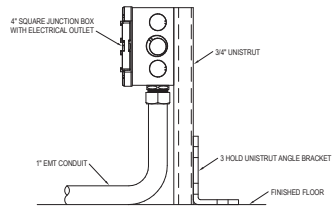
NOTES:

1. THE DIVISION 26 CONTRACTOR SHALL COORDINATE FUSE AND TRANSFORMER SIZES WITH THE APPROVED DIVISION 23 SMOKE DAMPER SHOP DRAWINGS.
2. INSTALL THE TRANSFORMER ENCLOSURE WITHIN 10'-0" OF THE AIR HANDLER STARTER OR VFD.
3. PROVIDE A LOCAL DISCONNECT AND 120V, 1P-20A CONNECTION TO EACH DIVISION 23 SMOKE DAMPER.
4. COORDINATE LOCATIONS OF ALL SMOKE DAMPERS WITH THE DIVISION 23 CONTRACTOR.
5. PROVIDE CLASS 2 WIRING PER NEC TO SERVE INTERLOCKING CONTACTOR.
6. REFER TO EMERGENCY BRANCH PANELBOARD SCHEDULES FOR CIRCUITING INFORMATION. ONE (1) CIRCUIT SERVE A MAXIMUM OF ONE (1) FLOOR.

SMOKE DAMPER WIRING DIAGRAM | H



TECHNOLOGY SYSTEMS UNDERGROUND CONDUIT | F



TWO POST RACK ELECTRICAL POWER OUTLET DETAIL | C

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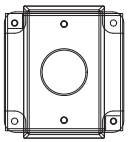
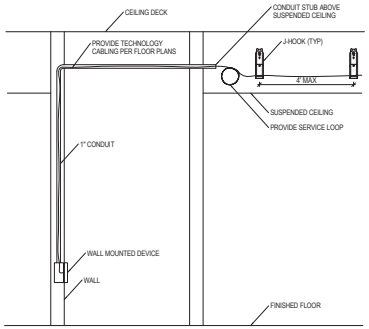
DETAILS - TECHNOLOGY

T-901

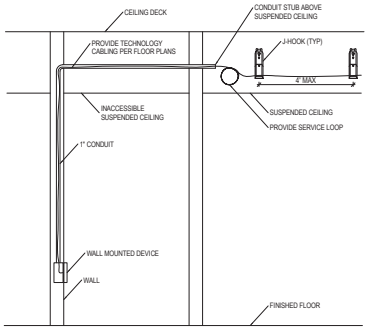


A/V 1

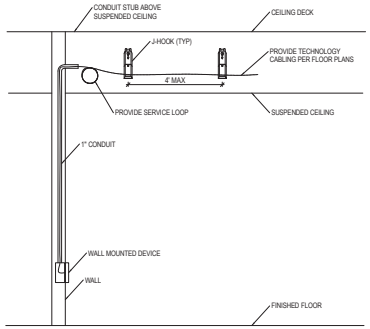
DISPLAY A/V WALL PLATE | I



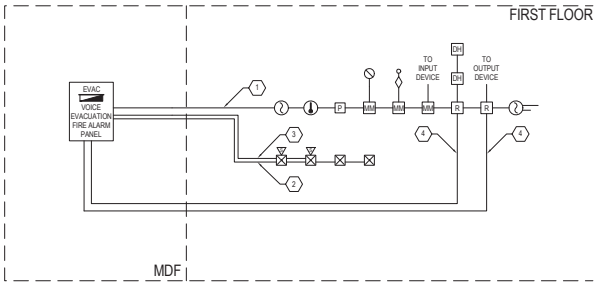
WALL DEVICE ROUGH IN - NO SUSPENDED CEILING | G



WALL DEVICE ROUGH IN - INACCESSIBLE CEILING | D



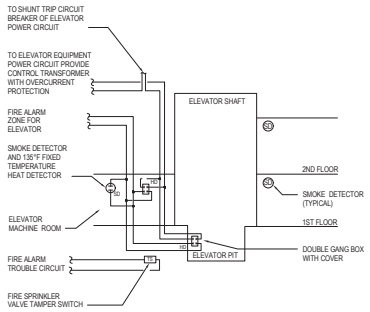
WALL DEVICE ROUGH IN - ACCESSIBLE CEILING | A



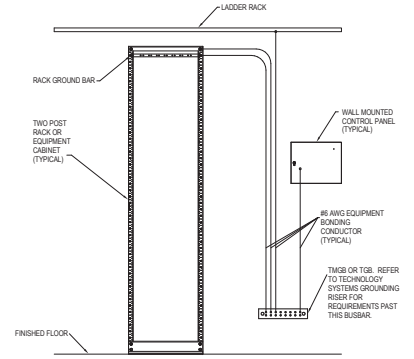
KEY NOTES: (#)

1. PROVIDE SIGNAL LINE CIRCUIT (SLC) CABLE.
2. PROVIDE NOTIFICATION CIRCUIT CABLE.
3. PROVIDE SPEAKER CIRCUIT CABLE.
4. PROVIDE 24 VDC POWER CABLE.

FIRE ALARM RISER DIAGRAM | H



FIRE ALARM RECALL FOR HYDRAULIC ELEVATOR | E



NOTE: ALL GROUNDING LUGS TO BE DOUBLE HOLE. SINGLE HOLE LUGS ARE NOT ACCEPTABLE.

TELECOMMUNICATION ROOM BUILDING DETAIL | B

NOT USED | F

NOT USED | C

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DETAILS - TECHNOLOGY

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SIGNALIZATION PLAN
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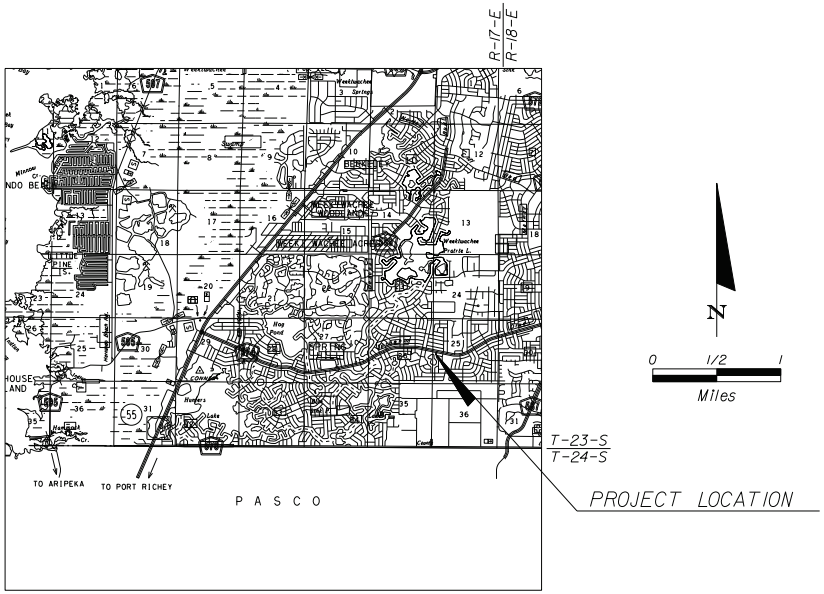
SPRING HILL DRIVE AT MELVILLE AVENUE

INDEX OF DRAWINGS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATORY SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES AND PAY ITEM NOTES
T-5	SIGNALIZATION PLAN
T-6	SIGNING & PAVEMENT MARKINGS PLAN
T-7	MAST ARM TABULATION SCHEDULE
T-8	STRUCTURAL DETAILS



LOCATION MAP
SECTION 25, TOWNSHIP 23S, RANGE 17E

SHOP DRAWINGS
TO BE SUBMITTED TO:

ROB R. SWANN, P.E.
LOCHNER
4350 W. CYPRESS STREET
SUITE 800
TAMPA, FLORIDA 33607
PHONE: 813.357.3750

ELECTRONIC DELIVERY OF SHOP DRAWINGS:
RSWANN@HWLOCHNER.COM

PLANS PREPARED BY:

ROB R>SWANN, PE, 59517
4350 W. CYPRESS STREET
SUITE 800
TAMPA, FLORIDA 33607
PHONE: 813.357.3750

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CERTIFICATE OF AUTHORIZATION 894
ROB R. SWANN, P.E. NO. 59517

NOTE: THE SCALE OF THESE PLANS MAY HAVE
CHANGED DUE TO REPRODUCTION.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2021-22 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

APPLICABLE IRs: IR536-001-01, IR521-001-01

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS: 2

Florida Department of Transportation, January 2021 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

BID SET 01/27/2021
REV 1 COUNTY COMMENTS 10/28/2020
REV 2 COUNTY COMMENTS 01/15/2021

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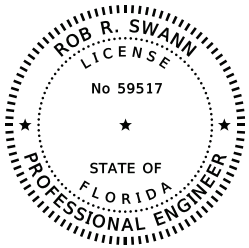

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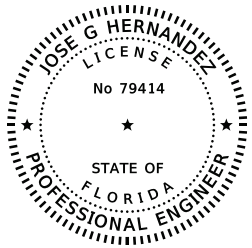

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01/27/21	REV 2 ADD PAY ITEM NUMBERS		
01/27/21	BID SET		

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HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

SIGNATORY SHEET

SHT. NO. T-2

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS T-5 PLAN	T-5 FINAL	T-6 PLAN	T-6 FINAL											TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
630-2-11	CONDUIT (F&I) (OPEN TRENCH)	LF	190														190		190	
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PI	1														1		1	
635-2-11	PULL & SPLICE BOX (F&I) (13" X 24")	EA	3														3		3	
635-2-12	PULL & SPLICE BOX (F&I) (24" X 36")	EA	2														2		2	
639-1-122	ELECTRICAL POWER SERVICE (F&I) UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1														1		1	
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	75														75		75	
639-3-11	ELICTRICAL SERVICE DISCONNECT (F&I) (POLE MOUNT)	EA	1														1		1	
641-2-12	PRESTRESSED CONCRETE POLE (F&I) TYPE P-II SERVICE POLE (12')	EA	2														2		2	
649-21-26	STEEL MAST ARM ASSY. (F&I) (DBL. ARM 78'-70'')	EA	1														1		1	
650-1-14	TRAFFIC SIGNAL (F&I) ALUMINUM, 3 SECTION, 1 WAY	AS	6														6		6	
665-1-11	PEDESTRIAN DETECTOR (F&I) STANDARD	EA	1														1		1	
670-5-111	TRAFFIC CONTROL ASSEMBLY (F&I) NEMA	AS	1														1		1	
684-1-1	ETHERNET SWITCH (F&I)	EA	1														1		1	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY (F&I) LIVE INTERACTIVE W/CABINET	EA	1														1		1	
700-1-12	SINGLE POST SIGN (F&I)	EA	4														4		4	
700-3-201	SIGN PANEL, (F&I) (OVERHEAD MOUNT) (UP TO 12 SF)	EA	4														4		4	
706-1-1	RAISED PAVEMENT MARKERS																			
	W/R	EA	28														28		108	108
	Y/Y	EA	60														60			
	MD/Y	EA	20														20			
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK	LF			180												180		180	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF			66												66		66	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF			175												175		175	
711-14-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR CROSSWALK	LF			107												107		107	
711-15-101	THERMOPLASTIC, STANDARD - OPEN GRADED ASPHALT SURFACES, WHITE, SOLID, 6"	GM			0.076												0.076		0.076	
711-15-131	THERMOPLASTIC, STANDARD - OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 6", 10-30	GM			0.061												0.061		0.061	
711-15-201	THERMOPLASTIC, STANDARD - OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM			0.232												0.232		0.232	
711-15-231	THERMOPLASTIC, STANDARD - OPEN GRADED ASPHALT SURFACES, YELLOW, SKIP, 6", 10-30	GM			0.152												0.152		0.152	

⚠1 REMOVED PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY AND PAY ITEM NUMBER

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4350 W. CYPRESS STREET, SUITE 800
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
ROB R. SWANN, P.E. NO. 59517

HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

TABULATION OF QUATITIES

SHT. NO. T-3

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PAY ITEM NOTES:

630-2-11 AND 630-2-12:

TWO (2) CONDUIT RUNS SHALL BE PROVIDED FOR THE PROVISION OF SEPARATING HIGH AND LOW VOLTAGE WIRING FOR PEDESTRIAN ASSEMBLIES.

632-7-1:

SPLICE SIGNAL CABLE TO A SEPARATE CABLE (FOR EACH SIGNAL HEAD AND INTERNALLY ILLUMINATED STREET NAME SIGN) IN THE BASE OF MAST ARM STRUCTURES UTILIZING A TERMINAL STRIP. A PERMANENT MARKING IS TO BE PLACED ON THE WIRE DESIGNATING THE PHASE USED.

VERIFY THE COLOR CODE OF SIGNAL CABLE WITH THE MAINTAINING AGENCY PRIOR TO WIRING INTERSECTION.

635-2-11 or 635-2-12:

USE POLYMER CONCRETE CONSTRUCTION PULL BOX WITH A POLYMER CONCRETE, COVER MARKED "TRAFFIC SIGNAL".

PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.

TWO (2) PULL BOXES SHALL BE PROVIDED FOR THE PROVISION OF SEPARATING HIGH AND LOW VOLTAGE WIRING FOR PEDESTRIAN ASSEMBLIES.

639-1-122:

HERNANDO COUNTY WIRING DIAGRAM SHALL BE USED.

ELECTRICAL SERVICE DISCONNECT IS 100 AMP, COMPRISING OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE CIRCUIT BREAKERS – ONE 40 AMP/120 VOLT FOR CONTROLLER CABINET, ONE 15 AMP/120 VOLT FOR INTERNALLY ILLUMINATED STREET NAME SIGNS AND ONE 15 AMP/120 VOLT FOR FUTURE USE.

639-1-122:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER SERVICE TO DETERMINE IF A SERVICE PROCESSING OR CONNECTION FEE IS REQUIRED. THE COST OF ANY SUCH FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.
CONTACT:
WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC.
352-596-4000

646-1-11:

USE LOCKING COLLARS WHEN MOUNTING ALUMINUM PEDESTRIAN POLES TO PEDESTRIAN PEDESTAL BASES.

649-21-18 and 649-21-19:

USE THREE 2" AND ONE 3/4" CONDUITS STUBBED OUT THROUGH THE MAST ARM POLE FOUNDATION AND TEMPORARILY SEAL.

ALL MAST ARM ASSEMBLIES SHALL HAVE A TERMINAL COMPARTMENT AND TERMINAL STRIP.

650-1-14 AND 650-1-19:

SIGNAL HEAD TO BE HARD WIRED IN DISCONNECT USING TERMINAL STRIP CONNECTION.

USE LOUVERED ALUMINUM SIGNAL HEAD BACK PLATES WITH A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER.

BACK PLATES TO BE ONE-PIECE ALUMINUM.

USE HERNANDO COUNTY TRAFFIC OPERATIONS WIRING DIAGRAM WHEN WIRING DISCONNECTS AND SIGNALS. WIRING DIAGRAM MAY BE OBTAINED BY CONTACTING HERNANDO COUNTY TRAFFIC OPERATIONS AT (863) 535-2200 PRIOR TO BEGINNING OF CONSTRUCTION.

653-191:

PEDESTRIAN SIGNAL HEADS TO BE 16" INTERNATIONAL SYMBOL, LED COUNTDOWN TYPE.

665-1-11:

USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-68B-06. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNALIZATION PLAN SHEETS.

670-5-111:

USE CONCRETE FOR CONTROLLER STEPS AS REQUIRED.

BASE OF CONTROLLER TO BE SAME ELEVATION AS CENTER OF ROADWAY OR GREATER.

COORDINATE WITH HERNANDO COUNTY 352-754-4060 FOR THE ACCEPTABLE CHOICES OF TRAFFIC CONTROLLERS AND CONTROLLER CABINET.

ALL TAFFIC SIGNAL CONTROLLER EQUIPMENT TO BE COMPATIBLE WITH HERNANDO COUNTY'S EXISTING SIGNAL SYSTEM. CONTACT MAINTAINING AGENCY PRIOR TO ORDERING CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY.

TRAFFIC SIGNAL CABINET SHALL BE TYPE V WITH A COBALT CONTROLLER AND MMU2-IDE 1600 LEIPE WITH ALL COMPANENTS REQUIRED PER HERNANDO COUNTY SPECIFICATIONS WHICH INCLUDES THE COST OF THE FOLLOW; RACK MOUNT DETECTORS, ALL INTERFACE PANELS INCLUDING PEDESTRIAN ISOLATION PANE, FIBER OPTIC MODEM AND 18" (TALL) ALUMINUM CABINET RISER (FROM CABNET MANUFACTURER). A SEPARATE UPS CABINET AND BASE IS REQUIRED. ALL CABLING NOT INCLUDING CONNECTION TO THE PATCH PANELS, NECESSARY TO CONNECT THE ETHERNET SWITCH TO ALL ITEMS INCLUDING THE UPS, CCTV, VIDEO DETECTION AND CONFLICT MONITOR, LIGHTNING AND ARRESTORS NECESSARY FOR A COMPLETE AND ACCEPTABLE INSTALLATION.

CONTROLLER BASE, PAD, STEPS, MATERIALS, LABOR, SHALL BE INCLUDED IN THE COST OF THE PAY ITEM.

USE COORDINATION UNITS WITH CAPABILITIES OF GENERATING SEPARATE FORCEOFFS AND PERMISSIVE PERIODS FOR MOVEMENTS 1, 3, 4, 5, 7, AND/OR 8.

684-1-1:

THE ETHERNET SWITCH SHALL BE AN ITS 8012 (APL CERTIFICATION NUMBER 78461201219013) WITH (4) 10000LX SFP MINI-GBIC), SINGLE MODE LC, 1550NM, 25KM TRANSCEIVERS, CONFIRM MAKE AND MODEL WITH HERNANDO COUNTY PRIOR TO SUBMITTING SHOP DRAWINGS. THIS PAY ITEM INCLUDES ALL APPROPRIATE PATCH CHORDS AND CABLING FOR NECESSARY CONNECTON TO ALL EQUIPMENT IN THE CONTROLLER CABINET.

COORDINATE WITH HERNANDO COUNTY ON THE INSTALLATION OF ALL PATCH CORDS AND CAT6 NETWORK CABLES. THE CAT6 CABLE SHALL HAVE A YELLOW JACKET. ALL SINGAL MODE FIBER OPTIC PATCH CABLES SHALL HAVE A YELLOW JACKET AND ALL MULTI MODE FIBER OPTIC BATCH CABLES SHALL HAVE AN ORANGE JACKET. PRIOR TO SUBMITTING THE SHOP DRAWINGS. COORDINATE WITH HERNANDO COUNTY FOR DESIRED LENGTHS AND CONNECTION TYPES.

685-1-13:

THE UNINTERRUPTED POWER SUPPLY (UPS) UNIT SHALL BE HOUSED IN AN ALUMINUM ENCLOSURE MOUNTED ON A SEPARATE CONCRETE PAD AND SHALL INCLUDE THE FOLLOWING: 1100 WATT ALPHA MODEL NO. FXM 1100 WITH ETHERNET AND ALL RELATED COMPONENTS, FOUR BATTERIES, AND GENERATOR CORD ACCESS COMPARTMENT. THE ENCLOSURE SHALL BE GROUNDED AS PER SECTION 620. INSTALL ONE TWO-INCH AND ONE ONE-INCH CONDITS TO THE TRAFFIC SIGNAL CABINET FOUNDATION. INSTALL A NETWORK CABLE THROUGH THE ONE-INCH CONDUIT AND CONNECT TFOR REMOTE ACCESS TO THE UPS UNIT. PAYMENT FOR ALL COSTS RELATED TO THE UPS CABINET, CONCRETE BASE, GROUNDING, CABLING, ETC. SHALL BE INCLUDED IN THE PAY ITEM NUMBER COORDINATED WITH HERNANDO COUNTY TRAFFIC OPERATIONS FOR SPECIFICATIONS PRIOR TO ORDERING AND SUBMITTING SHOP DRAWINGS.

700-5-21 AND 700-5-22:

ALL INTERNALLY ILLUMINATED STREET NAME SIGNS TO BE MOUNTED FREE SWINGING ON POLE BRACKET ARM ATTACHED TO POLE.

USE LED (EDGE LIT TYPE) INTERNALLY ILLUMINATED STREET NAME SIGNS.

INSTALL PHOTOELECTRIC CELL FOR INTERNALLY ILLUMINATED STREET NAME SIGNS ON TRAFFIC SIGNAL ELECTRICAL SERVICE DISCONNECT.

GENERAL NOTES:

MAINTAINING AGENCY: HERNANDO COUNTY

PAVEMENT MARKINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. FOR PAVEMENT MARKING DESIGN INFORMATION, SEE PAVEMENT MARKING PLANS.

THE FLASHING OPERATION TO BE TERMINATED BY AN ACTUATION FROM THE FIRE STATION

WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC. TO ASSIST THE CONTRACTOR IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. CONTRACTOR TO NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT.

THE CONTRACTOR IS RESPONSIBLE TO CONTACT THE HERNANDO COUNT AT 352-754-4030, FOR THE ASSIGNMENT OF THE PHYSICAL ADDRESS ONCE THE SERVICE DROP LOCATION HAS BEEN ESTABLISHED.

AT LEAST ONE WEEK PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTRACTOR SHALL CONTACT THE HERNANDO COUNTY TRAFFIC SIGNAL SHOP AT (352) 754-4060.

WHEN CONSTRUCTION IS COMPLETE, IN ADDITION TO THE REQUIREMENT OF STANDARD SPECIFICATION 9-8.1(H), PROVIDE A SET OF "AS-BUILT" PLANS TO:

HERNANDO COUNTY TRAFFIC OPERATIONS
352-754-4060

THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv/Vh AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATION/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN POINTS HAVE NOT BEEN VERIFIED.

EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.

THE CONTRACTOR TO NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (1-800-432-4770) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

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HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

GENERAL NOTES AND PAY ITEM NOTES

SHT. NO. T-4

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R
Y
G

3-SECT., 1-WAY
10 AS
650-1-14

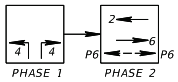
BACKPLATES W/2" YELLOW REFLECTIVE BORDERS REQUIRED

ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS

⚠1 REMOVED PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY AND PAY ITEM NUMBER

REMOVED PREEMPTION SENSORS

MODIFIED S.O.P. ?



PHASE 1 PHASE 2

SIGN Ⓐ

EMERGENCY SIGNAL

R10-13 42"x30"
700-3-201 2 EA

SIGN Ⓑ

OFFICIAL USE ONLY

R3-2 36"x36"
FTP-66-4 36"x18"
700-3-201 1 AS

SIGN Ⓒ

OFFICIAL USE ONLY

R3-1 36"x36"
FTP-66-4 36"x18"
700-3-201 1 AS

CONTROLLER OPERATION

1. THE MAIN STREET IS SPRING HILL DR; MOVEMENTS 2 AND 6. MINOR STREET IS MOVEMENT 4 AND 8. PHASES 2 AND 6 SHALL FLASH YELLOW; AND ALL OTHER MOVEMENTS 1, 4, 5, 7, 8 SHALL FLASH RED.
2. CONTROLLER CABINET SHALL BE CAPABLE OF S.O.P. 10.
3. EACH PHASE MOVEMENT SHALL BE WIRED FROM THE SIGNAL DISPLAY TO THE CONTROLLER AS A SEPARATE PHASE/MOVEMENT. THIS INCLUDES LEFT TURN MOVEMENTS. EACH LEFT TURN MOVEMENT SHALL HAVE CONDUCTORS AVAILABLE FOR PROTECTIVE AND PERMISSIVE OPERATION.

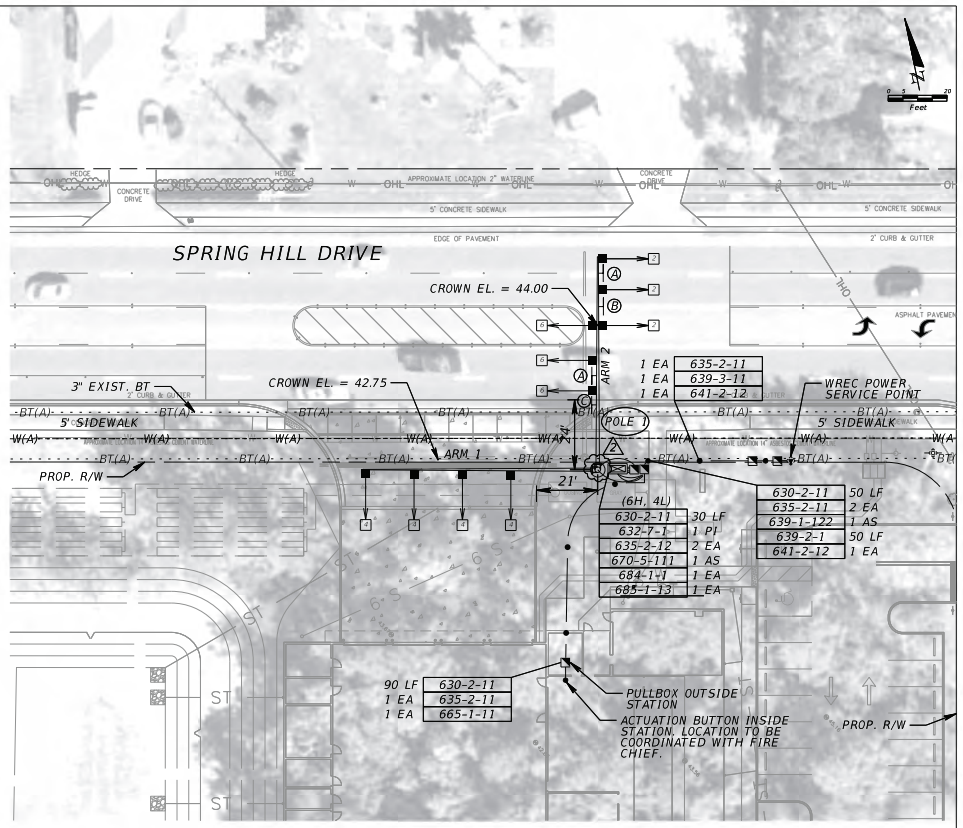
SPECIAL POP

FIRE STATION

FROM NORMAL OPERATION → TO NORMAL OPERATION

SPRING HILL DRIVE
POSTED SPEED = 45 MPH

PRE-EMPTION TIMINGS	
MINIMUM GREEN AFTER PRE-EMPTION	4.0
YELLOW CLEARANCE	4.8
ALL RED CLEARANCE	2.0
MINIMUM DWELL	15



POLE 1 POLE BASE ELEV. = 44.00
ARM 1 CROWN EL. = 42.75
ARM 2 CROWN EL. = 44.00
SOUTH 24' FROM EOP SPRINGHILL DRIVE
EAST 21' FROM EOP FIRE STATION DRIVEWAY

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SPRING HILL FIRE STATION NO. 5

SIGNALIZATION PLAN

SHT. NO. T-5

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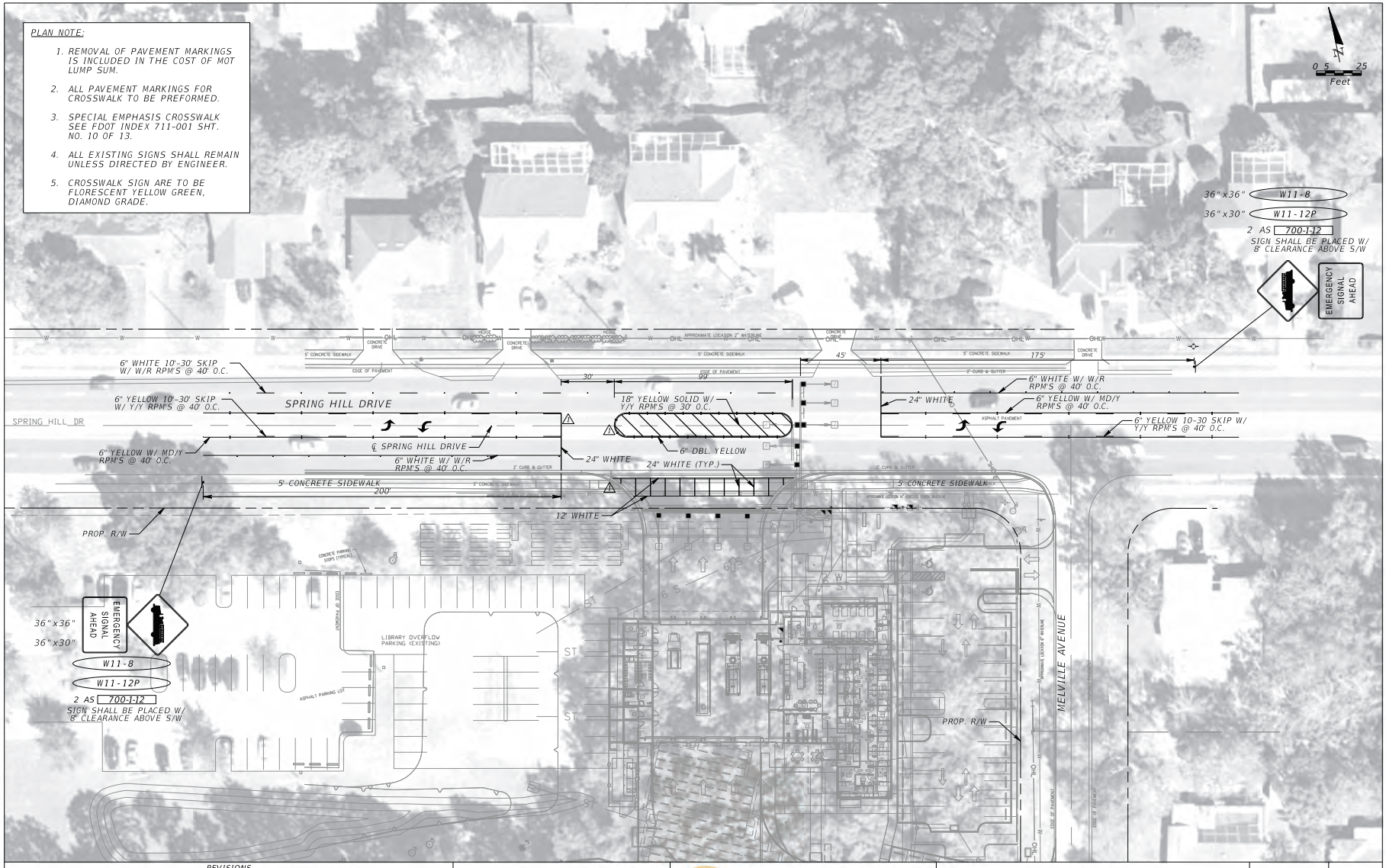

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TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
ROB R. SWANN, P.E. NO. 59517

HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

SIGNING & PAVEMENT MARKINGS PLAN

SHT. NO. T-6

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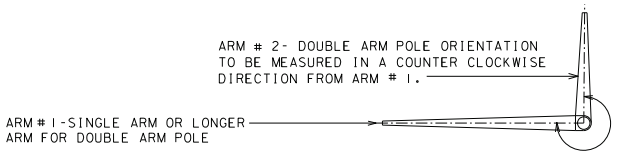

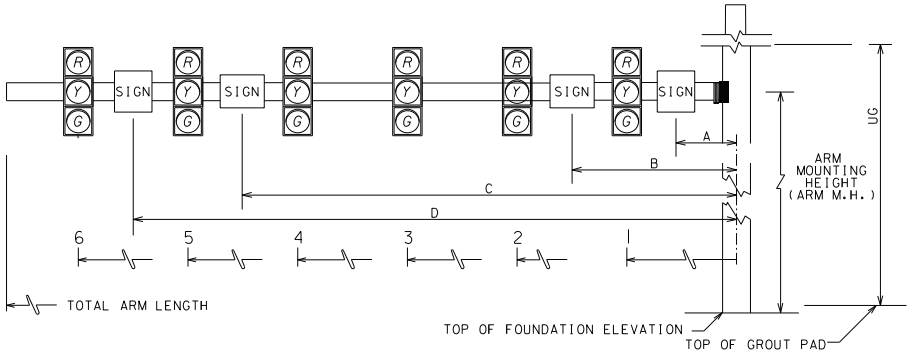

SPECIAL INSTRUCTIONS

ID NO.	PED. BUTTON		PED. SIGNALS		HANDHOLE LOCATION

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

^DENOTES PREEMPTION DEVICES, ^^ DENOTES MICROWAVE DETECTORS

PLAN LAYOUT

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	LUMI-NAIRE Y/N	TERM. COMP. Y/N	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	SIGNAL DATA: DISTANCE FROM POLE	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN
											1 * 2 * 3 * 4 *				A H1 W1 B H2 W2 C H3 W3 D H4 W4 F^ H5^ W5^ G^^ H5^^ W5^^
1	T-5		44.00	1	42.75	N	Y	V	Y	N	28' 3 44' 3 61' 3 74' 3	78'		270	
1	T-5		44.00	2	44.00	N	Y	V	Y	N	25' 3 35' 3 47' 3 47' 3	70'		270	20' 3' 3' 30' 3.5 2.5 54' 3' 3' 65' 3.5' 2.5'
											59' 3 69.5 3				20' 1.5' 3' 54' 1.5' 3'

FUTURE LAYOUT

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	LUMI-NAIRE Y/N	TERM. COMP. Y/N	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN
											1 * 2 * 3 * 4 *				A H1 W1 B H2 W2 C H3 W3 D H4 W4 F^ H5^ W5^ G^^ H5^^ W5^^
1	T-5		44.00	1	42.75	N	Y	V	Y	N	28' 3 44' 3 61' 3 74' 3	78'		270	
1	T-5		44.00	2	44.00	N	Y	V	Y	N	25' 3 35' 3 47' 3 47' 3	70'		270	20' 3' 3' 30' 3.5' 2.5' 54' 3' 3' 65' 3.5' 2.5'
											59' 3 69.5 3				20' 1.5' 3' 54' 1.5' 3'

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
08/31/20	PERMIT SET		
10/28/20	REV 1 COUNTY COMMENTS		
01/15/21	REV 2 RELOCATE POLE FDN.		
01/27/21	REV 2 ADD PAY ITEM NUMBERS		
01/27/21	BID SET		

LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
ROB R. SWANN, P.E. NO. 59517

HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

MAST ARM TABULATION SCHEDULE

SHT. NO. T-7

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MAST ARM FOUNDATION DATA TABLE

MAST ARM NUMBER	POLE BASE CONNECTION (in)					SHAFT AND REINF.							
	#Bolts	BA*	BB*	BC**	BF	DA(ft)	DB(ft)	RA	RB	RC	RD(in)	RE	RF(in)
A	-	-	-	-	-	-	-	–	–	–	–	-	-
B	-	-	-	-	-	-	-	–	–	–	–	-	-
C	-	-	-	-	-	-	-	–	–	–	–	-	-
D	-	-	-	-	-	-	-	–	–	–	–	-	-

* Dimensions shown are based on field measurements of the existing mast arm upright that is to be used. This information is provided for informational purposes only and is not guaranteed to be accurate. The Contractor shall verify this information prior to ordering the anchor bolts. Any discrepancies shall be brought to the attention of the Engineer for review and possible plans revisions.

** The anchor bolt diameter shown was selected based on field measurements of the existing mast arm base plate. The Contractor shall verify the anchor bolt diameter is compatible with the existing mast arm base plate holes. Any discrepancies shall be brought to the attention of the Engineer for review and possible plans revisions prior to ordering the anchor bolts.

NOTES:

1. Work with Index 649-031.
2. Design Wind Speed = 150 mph (Drilled Shafts)
   = 110 mph (Anchor Bolts)
3. Anchor bolt orientation shall take into account the existing base plate hole locations and the arm orientation shown on the Signalization Plan.
4. The structural sufficiency of the relocated mast arm assembly shall be determined by others.
5. The Contractor shall provide all anchor bolt nuts and washers and the structural grout pad identified in Index 649-031.

FOUNDATION NOTES:

1. Design based on Borings taken by
   and sealed by .
2. Assumptions and Values used in design:
   Soil Type = Cohesionless
   Soil Layer Thickness =
   Soil Friction Angle = .
   Soil Weight =
   Average Blow Count, N =
   Design Water Table is 0 feet below surface
3. See the Mast Arm Tabulation Schedule for the top of foundation elevations.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
08/31/20	PERMIT SET		
10/28/20	REV 1 COUNTY COMMENTS		
01/15/21	REV 2 RELOCATE POLE FDN.		
01/27/21	REV 2 ADD PAY ITEM NUMBERS		
01/27/21	BID SET		

LOCHNER
4350 W. CYPRESS STREET, SUITE 800
TAMPA, FLORIDA 33607
CERTIFICATE OF AUTHORIZATION NO. 894
JOSE G. HERNANDEZ, P.E. NO. 79414

HERNANDO COUNTY
FIRE STATION #5
9252 SPRINGHILL DRIVE
SPRINGHILL, FL. 34608

SPRING HILL FIRE STATION NO. 5

STRUCTURAL DETAILS

SHT. NO. T-8

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PROPOSED SEGMENTAL RETAINING WALL
HERNANDO COUNTY FIRE STATION #5
SPRING HILL, FLORIDA

MATERIAL NOTES

1. Concrete Retaining Wall Units: "Anchor Diamond Pro Retaining Wall Units" as manufactured by Oldcastle Coastal under license from Anchor Wall Systems.
2. Geosynthetic Reinforcement: Miragrid 3XT, as shown on the Drawings.
3. Leveling Pad Base
   a. Aggregate Base: Crushed stone or granular fill meeting the following gradation as determined in accordance with ASTM D448:

Sieve Size	Percent Passing
1 Inch	100
No. 4	35 to 70
No. 40	10 to 35
No. 200	3 to 10

   b. Base Thickness: 6 inches (minimum compacted thickness).
4. Drainage Aggregate: Clean crushed stone or granular fill meeting the following gradation as determined in accordance with ASTM D448.

Sieve Size	Percent Passing
1 Inch	100
3/4 Inch	75 to 100
No. 4	0 to 60
No. 40	0 to 50
No. 200	0 to 5

5. Reinforced Fill: Soil free of organics and debris and consisting of either GP, GW, SP, SW, or SP-SM type, classified in accordance with ASTM D2487 and the USCS classification system and meeting the following gradation:

Sieve Size	Percent Passing
1 Inch	100
3/4 Inch	70 to 100
No. 4	30 to 100
No. 40	15 to 100
No. 100	0 to 65
No. 200	0 to 12

   a. PI<6.
   b. Unsuitable soils are organic soils and those soils classified as SM, SC, CL, CH, OH, MH, ML, OL, or PT.
6. Impervious Material: Clayey soil (permeability of less than 10^{-5} cm/sec) or other barrier which will prevent percolation into the reinforced soil zone of the retaining wall.
7. Drainage Pipe: Perforated or slotted PVC or corrugated HDPE pipe manufactured in accordance with D3034 and/or ASTM F405. The pipe may be covered with a geotextile filter fabric to function as a filter.
8. Construction Adhesive: Exterior grade adhesive as recommended by the retaining wall manufacturer.
9. Filter Fabric: Mirafi Type 140N or equal.

FOUNDATION SOIL NOTES

1. Excavate foundation soil as required for footing or base dimension shown on the Drawings, or as directed by the Project geotechnical engineer.
2. The Owner shall retain the services of a geotechnical engineer to examine foundation soil to ensure that the actual foundation soil strength meets or exceeds that indicated on the Drawings. Unsuitable soils are defined as any soil that does not have sufficient bearing capacity or will cause excessive wall settlement. Remove soil not meeting the required strength. Oversize resulting space sufficiently from the front of the block to the back of the reinforcement, and backfill with suitable compacted backfill soils.
3. The Owner shall retain the services of a geotechnical engineer to determine if the foundation soils will require special treatment or correction to control total and differential settlement.
4. Fill over-excavated areas with suitable compacted backfill, as recommended by the Project geotechnical engineer.

BASE COURSE NOTES

1. Place base materials to the depths and widths shown on the Drawings, upon undisturbed soils, or foundation soils prepared as directed by the project geotechnical engineer.
   a. Extend the leveling pad laterally at least 6 inches in front and behind the lowermost concrete retaining wall unit.
   b. Provide aggregate base compacted to 6 inches thick (minimum).
   c. Wrap toe of wall, including leveling pad, with filter fabric.
2. Compact aggregate base material to provide a level, hard surface on which to place the first course of units.
3. Prepare base materials to ensure complete contact with retaining wall units. Gaps are not allowed.

ERECTION NOTES

1. Excavation support, if required, is the responsibility of the Contractor, including the stability of the excavation and its influence on adjacent properties and structures.
2. General: Erect units in accordance with manufacturer's instructions and recommendations, and as specified herein.
3. Place first course of concrete wall units on the prepared base material. Check units for level and alignment. Maintain the same elevation at the top of each unit within each section of the base course.
4. Ensure that foundation units are in full contact with the leveling pad.
5. Place concrete wall units side-by-side for full length of wall alignment. Alignment may be done by using a string line measured from the back of the block. Gaps are not allowed between the foundation concrete wall units.
6. Place 12 inches (minimum) of drainage aggregate between, and directly behind the concrete wall units. Fill voids in retaining wall units with drainage aggregate. Wrap drainage aggregate with filter fabric. Provide a drainage zone behind the wall units to within 9 inches of the final grade. Cap the reinforced zone and drainage aggregate zone with 12 inches of impervious material.
7. Install drainage pipe at the lowest elevation possible, to maintain gravity flow of water to outside of the reinforced zone. Slope the main collection drainage pipe, located just behind the concrete retaining wall units, 1 percent (minimum) to provide gravity flow to the daylighted areas. Daylight the main collection drainage pipe to an appropriate location away from the wall system at each low point or at 50 foot (maximum) intervals along the wall.
8. Remove excess fill from top of units and install next course. Ensure drainage aggregate and backfill are compacted before installation of next course.
9. Check each course for level and alignment. Adjust units as necessary with reinforcement shims to maintain level, alignment, and setback prior to proceeding with each additional course.
10. Install each succeeding course. Backfill as each course is completed. Pull the units forward until the locating surface of the unit contacts the locating surface of the units in the preceding course. Interlock wall segments that meet at corners by overlapping successive courses. Attach concrete retaining wall units at exterior corners with adhesive specified.
11. Install geosynthetic reinforcement in accordance with geosynthetic manufacturer's recommendations and the shop drawings.
    a. Orient geosynthetic reinforcement with the highest strength axis perpendicular to the wall face.
    b. Prior to geosynthetic reinforcement placement, place the backfill and compact to the elevation of the top of the wall units at the elevation of the geosynthetic reinforcement.
    c. Place geosynthetic reinforcement at the elevations and to the lengths shown on the Drawings.
    d. Lay geosynthetic reinforcement horizontally on top of the concrete retaining wall units and the compacted backfill soils. Place the geosynthetic reinforcement within one inch of the face of the concrete retaining wall units. Place the next course of concrete retaining wall units on top of the geosynthetic reinforcement.
    e. The geosynthetic reinforcement shall be in tension and free from wrinkles prior to placement of the backfill soils. Pull geosynthetic reinforcement hand-taut and secure in place with staples, stakes, or by hand-tensioning until the geosynthetic reinforcement is covered by 6 inches of loose fill.
    f. The geosynthetic reinforcements shall be continuous throughout their embedment lengths. Splices in the geosynthetic reinforcement strength direction are not allowed.
    g. Do not operate tracked construction equipment directly on the geosynthetic reinforcement. At least 6 inches of compacted backfill soil is required prior to operation of tracked vehicles over the geosynthetic reinforcement. Keep turning of tracked construction equipment to a minimum.
    h. Rubber-tired equipment may pass over the geosynthetic reinforcement at speeds of less than 5 miles per hour. Turning of rubber-tired equipment is not allowed on geosynthetic reinforcement.

BACKFILL PLACEMENT NOTES

1. Place reinforced backfill, spread and compact in a manner that will minimize slack in the reinforcement.
2. Place fill within the reinforced zone and compact in lifts not exceeding 6 to 8 inches (loose thickness) where hand-operated compaction equipment is used, and not exceeding 12 inches (loose thickness) where heavy, self propelled compaction equipment is used.
   a. Only lightweight hand-operated compaction equipment is allowed within 4 feet of the back of the retaining wall units. If unable to achieve minimum compaction requirements replace the reinforced soil in this zone with drainage aggregate material.
3. Minimum Compaction Requirements for Fill Placed in the Reinforced Zone:
   a. Compact to 95 percent of the soil's standard Proctor maximum dry density (ASTM D698) for the entire wall height.
   b. Compaction requirements for fill placed behind the reinforced soil zone shall be specified by the Project Geotechnical Engineer but at no time should be less than 95% of the standard Proctor density (ASTM D698).
   c. Increase compaction requirements for retaining walls with slope heights at the back of the reinforced soil zone greater than 5 feet above the top of wall. Verify compaction requirements with the Project geotechnical engineer.
   d. Utility Trench Backfill: Compact utility trench backfill in or below the reinforced soil zone to 98 percent of the soil's standard Proctor maximum dry density (ASTM D698), or as recommended by the Project geotechnical engineer.
   e. Moisture Content: Within 2 percentage points of the optimum moisture content for all wall heights.
   f. These notes may be changed based on recommendations by the Project geotechnical engineer.
4. At the end of each day's operation, slope the last level of compacted backfill away from the interior (concealed) face of the wall to direct surface water runoff away from the wall face.
   a. The General Contractor is responsible for ensuring that the finished site drainage is directed away from the retaining wall system.
   b. In addition, the General Contractor is responsible for ensuring that surface water runoff from adjacent construction areas is not allowed to enter the retaining wall area of the construction site.

CAP UNIT INSTALLATION NOTES

1. Apply adhesive to the top surface of the unit below and place the cap unit into desired position.
2. Cut cap units as necessary to obtain the proper fit.
3. Backfill and compact to top of cap unit.

WALL CONSTRUCTION TOLERANCE NOTES

1. Wall Construction Tolerances:
   a. Vertical Alignment: Plus or minus 1-1/4 inches over any 10-foot distance, with a maximum differential of 3 inches over the length of the wall.
   b. Horizontal Location Control from Grading Plan:
   b.1. Straight Lines: Plus or minus 1-1/4 inches over any 10-foot distance, with a maximum differential of 3 inches over the length of the wall.
   c. Immediate Post Construction Wall Batter: Within 2 degrees of the design batter of the concrete retaining wall units.
   d. Maximum Differential Settlement: 1:100.

FIELD QUALITY CONTROL NOTES

1. Installer is responsible for quality control of installation of system components. Owner to employ a qualified independent third party to verify the correct installation of system components in accordance with these specifications and the Drawings.
2. The Owner, at their expense, will retain a qualified professional to perform quality assurance checks of the installer's work.
3. Correct work which does not meet these specifications or the requirements shown on the Drawings at the installer's expense.
4. The Owner or Owner's Representative shall retain the services of a geotechnical engineer to perform compaction testing of the reinforced backfill placed and compacted in the reinforced backfill zone.
   a. Testing Frequency (or as directed by Project Geotechnical Engineer)
   b. One test for every 2 feet (vertical) of fill placed and compacted, for every 50 lineal feet of retaining wall.
   c. Vary compaction test locations to cover the entire area of the reinforced soil zone, including the area compacted by the hand-operated compaction equipment.

SITE DRAINAGE NOTE

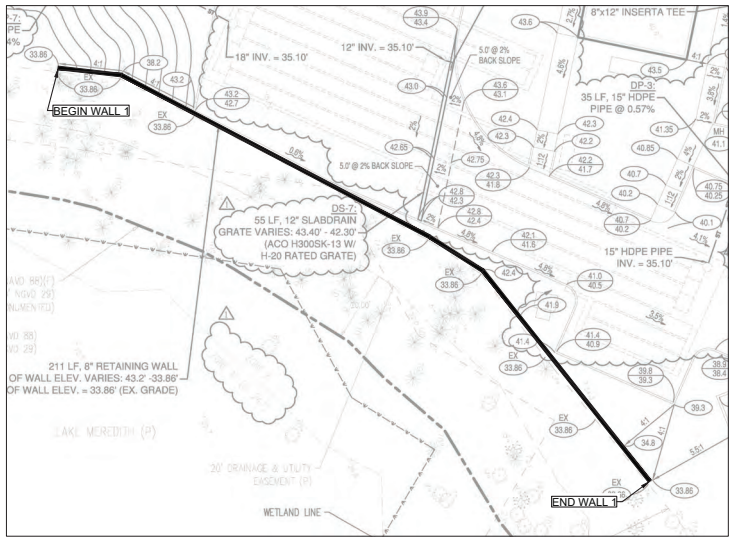
1. This design does not account for any hydrostatic forces on the retaining wall system. It is imperative the finished site grading diverts water away from the block facing and the reinforced soil zone of the retaining wall system. All buildings located above retaining walls must implement gutter systems with downspouts that direct water through solid PVC pipe to the site storm sewer system or to a location below and away from the wall. Building sump pumps should also direct water away from the wall in the same manner. Concentrated discharge of water above the retaining wall and the reinforced soil zone is not allowed.

UTILITY NOTES

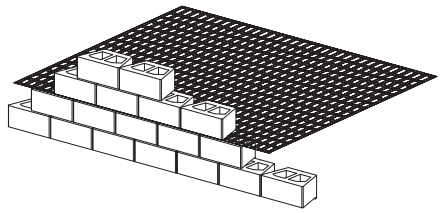
1. Utility information has been provided to Anchor Wall Engineering for the preparation of these plans.
2. Utilities must be properly designed (by others) to withstand all forces from the segmental retaining wall units, reinforced soil mass, and surcharge loads (if any).
3. Storm drains are prone to leaking. Therefore, if a joint in a storm drain is located within 100 feet behind the retaining wall the storm water pipe must be water tight. Neoprene O-rings must be installed at all storm pipe joints as a minimum.
4. Water lines, including irrigation systems, must be water tight within 100 feet behind the retaining wall. Leakage behind a retaining wall will increase the horizontal pressure against the wall leading to wall failure. For this reason, subsurface waterlines and irrigation systems should not be installed above the reinforced zones of the retaining wall, or within 5 feet of the reinforced zone.

GENERAL NOTES

1. The owner or owner's representative has not provided foundation or retained soil strength parameters for design of the segmental retaining wall. In preparation of wall design, soil strength parameters for the foundation and retained soils were assumed by Anchor Wall Engineering, based on a review of the project geotechnical report prepared by Driggers Engineering Services, Inc, dated July 29, 2020. It is the responsibility of the owner or owner's representative to verify the assumed soil strength parameters are representative of the soils available for wall construction. If the soil strength parameters are found to be inconsistent with those assumed by Anchor Wall Engineering, this design is no longer valid and it is the responsibility of the owner or owner's representative to notify Anchor Wall Engineering so the retaining wall system can be redesigned. Failure to notify Anchor Wall Engineering may result in failure of the retaining wall.
2. Assumed Design Soil Parameters:
   a. Reinforced soil: phi = 30 degrees gamma = 115 pcf.
   b. Retained soil: phi = 30 degrees gamma = 115 pcf.
   c. Foundation soil: phi = 30 degrees gamma = 115 pcf.
3. Any excavation below the wall should have proper 1:1 lateral oversizing. Excavation oversizing should be measured from the front of the gravel leveling pad and the back of the lowest reinforcement layer. Refer to detail 7 on sheet W3.
4. Wall stationing shown on sheet W2 is not related to any other stationing shown on the grading plans. Station 0+00 is on the left end of the wall as seen from the front of the wall.
5. This set of segmental retaining wall plans are based on the grading plans prepared by Vickstrom Engineering Services, Inc., dated October 28, 2020. If other plans are produced that contain different information than that referenced, this plan may need to be revised and/or the wall may need to be redesigned.
6. This set of segmental retaining wall plans are based specifically on the wall being constructed with Anchor Diamond Pro block and Miragrid 3XT reinforcement products. Absolutely no substitutions allowed.
7. Location of the segmental retaining wall in relation to property lines, utility easements, watershed easements, or any other type of easements are the responsibility of the owner or the site civil engineer. Anchor Wall Engineering assumes no liability for the location of the segmental retaining wall, or if construction of the proposed segmental retaining wall encroaches any property lines or easements.
8. It is imperative that the site surveying of the segmental retaining wall be done by the site civil engineer or surveyor and must be based on computer generated site/grading plans and not profile plans done by Anchor Wall Engineering. Surveying of the segmental retaining wall must take into account the design batter indicated on the enclosed plans and details. Failure to take into account wall batter for segmental retaining wall surveying will produce incorrect locations of all top of walls and shall be corrected at no cost to Anchor Wall Engineering or the segmental retaining wall contractor.
9. Wall geometry, locations, slopes and surcharge loads for the segmental retaining wall were measured from the site grading plan referenced above, and partially reproduced to the right. If conditions vary in the field from those shown on this plan, Anchor Wall Engineering must be notified prior to construction of the segmental retaining wall to review the design and/or plans. Modifications to the design and/or plans may be required after the review, and may take up to ten business days to complete.
10. This segmental retaining wall has been designed in general accordance with the 2017 Florida Building Code, 6th Edition.
11. If there are discrepancies between any information on these plans and information in the project specifications, the more restrictive information takes precedence.



KEY PLAN
(N.T.S)



SHEET INDEX

PAGE	DESCRIPTION
W1	TITLE PAGE/KEY PLAN
W2	WALL ELEVATIONS & CROSS SECTION
W3	TYPICAL DETAILS

ANCHOR WALL ENGINEERING, LLC
5909 BAKER ROAD, SUITE 550
MINNETONKA, MN 55345-5996
PHONE: (952) 933-8855
CERTIFICATE OF AUTHORIZATION: 27077

This item has been electronically signed and sealed by Jon Huyck, PE on November 3, 2020 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DESIGN ENGINEER: JON C. HUYCK
FLORIDA REGISTRATION: 61043

JON C. HUYCK LICENSE No 61043 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROPOSED SEGMENTAL RETAINING WALL
HERNANDO COUNTY FIRE STATION #5
SPRING HILL, FLORIDA
TAMPA, FL

Rev. No.	Date	Description

OLDCASTLE COASTAL

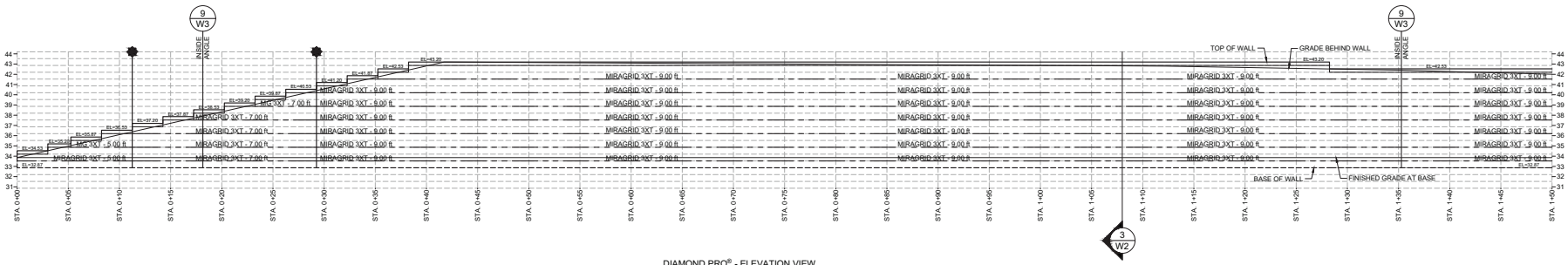
Drawn By: MW
Reviewed By: D.A.
Proj. No.: AF 20-164
Date: 1/13/20

SHEET W1 OF 3

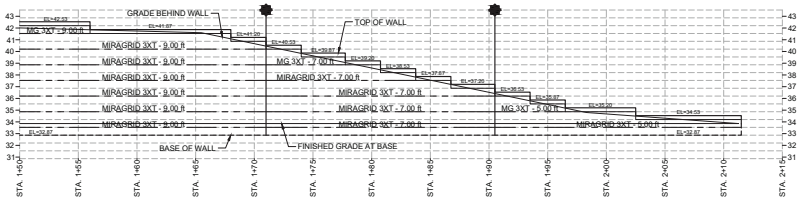
TITLE PAGE/KEY PLAN

NO SCALE INTENDED

VERIFY THAT THIS BAR MEASURES 1" IF NOT, ADJUST THE SCALE ACCORDINGLY



1 W2 DIAMOND PRO® - ELEVATION VIEW
WALL 1 (MAXIMUM APPLIED BEARING PRESSURE = 1,500 PSF)
(SCALE: 1" = 5'-0")



2 W2 DIAMOND PRO® - ELEVATION VIEW
WALL 1 (CONTINUED)
(SCALE: 1" = 5'-0")

NOTE: STORMTECH STORM WATER RETENTION SYSTEM LOCATED BEHIND WALL. DISTANCE BEHIND WALL VARIES.

ELEVATION SCALE

5 2.5 0 5 10

SCALE: 1" = 5'

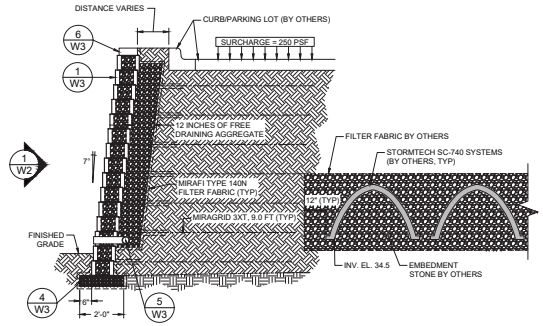
NOTE:

1) LOCATIONS OF CORNERS SHOWN ARE APPROXIMATE AND SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION OF THE SEGMENTAL RETAINING WALL.

LEGEND

- INDICATES REINFORCEMENT LENGTH AND/OR ELEVATION CHANGE
- X / WX - DETAIL NUMBER / SHEET NUMBER
- INDICATES LOCATION OF SECTION CUT
- 9 / W3 - INDICATES APPROXIMATE LOCATION OF INSIDE ANGLED CORNER

NOTE: IF A FENCE IS REQUIRED BEHIND WALL, SEE DETAIL 11 ON SHEET W3 FOR PLACEMENT OPTIONS.



3 W2 DIAMOND PRO®
WALL 1 @ STA 1+08
(NOT TO SCALE)

ANCHOR WALL ENGINEERING, LLC
5909 BAKER ROAD, SUITE 550
MINNETONKA, MN 55345-5996
PHONE: (952) 933-8855
CERTIFICATE OF AUTHORIZATION: 27077

This item has been electronically signed and sealed by Jon Huyck, PE on November 3, 2020 using a Digital Signature.

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DESIGN ENGINEER: JON C. HUYCK
FLORIDA REGISTRATION: 61043

JON C. HUYCK LICENSE No 61043 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROPOSED SEGMENTAL RETAINING WALL
HERNANDO COUNTY FIRE STATION #5
SPRING HILL, FLORIDA
TAMPA, FL

OLDCASTLE COASTAL

Rev. No.	Date	Description

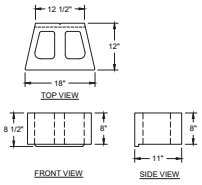
Drawn By: MWI
Reviewed By: CLA
Proj. No.: AF 20 184
Date: 11/1/20

Scale: AS SHOWN

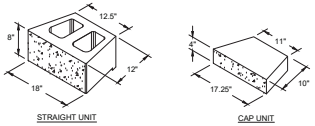
"IF BAR IS NOT 1" LONG ON THIS SHEET, ADJUST THE SCALE ACCORDINGLY"

SHEET W2 OF 3

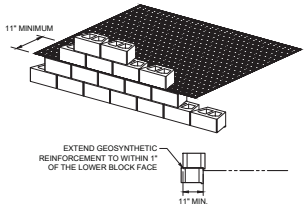
WALL ELEVATIONS AND CROSS SECTION



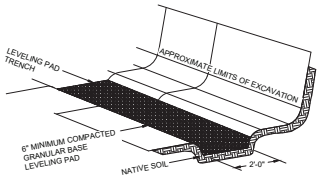
DIAMOND PRO®
1 / W3 3-WAY BLOCK VIEWS
(NOT TO SCALE)



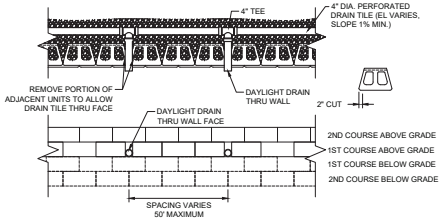
DIAMOND PRO®
2 / W3 ISOMETRIC BLOCK VIEWS
(NOT TO SCALE)



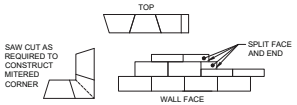
DIAMOND PRO®
3 / W3 REINFORCEMENT CONNECTION DETAIL
(NOT TO SCALE)



DIAMOND PRO®
4 / W3 TYPICAL BASE PREPARATION
(NOT TO SCALE)

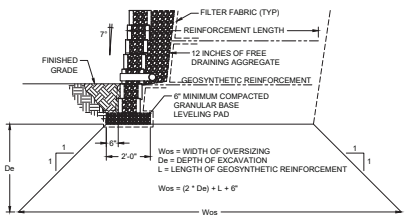


DIAMOND PRO®
5 / W3 DAYLIGHT DRAINTILE THROUGH WALL
(NOT TO SCALE)

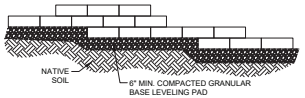


1. ALWAYS START CAPPING WALL FROM THE LOWEST ELEVATION.
2. LAYOUT CAPS PRIOR TO USING ADHESIVE.
3. CUT CAPS TO FIT. VARIOUS COMBINATIONS OF LONG AND SHORT CAP FACES WILL BE NECESSARY FOR RADII GREATER THAN THE MINIMUM.
4. ALTERNATE SHORT AND LONG CAP FACES EVERY OTHER CAP TO ACHIEVE A STRAIGHT ROW OF CAPS.
5. USE EXTERIOR-GRADE CONSTRUCTION ADHESIVE TO SECURE CAPS.
6. REFER TO DETAIL 2 ON SHEET W3 FOR ADDITIONAL INFORMATION.

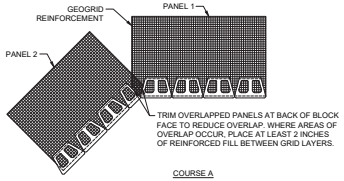
DIAMOND PRO®
6 / W3 CAP BLOCK DESIGN DETAILS
(NOT TO SCALE)

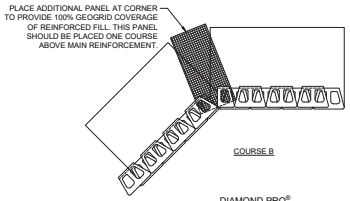


DIAMOND PRO®
7 / W3 1:1 EXCAVATION OVERSIZING
(NOT TO SCALE)

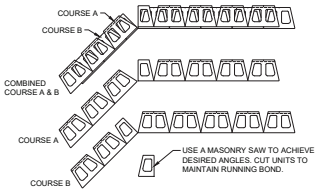


DIAMOND PRO®
8 / W3 TYPICAL STEP-UP DETAIL
(NOT TO SCALE)

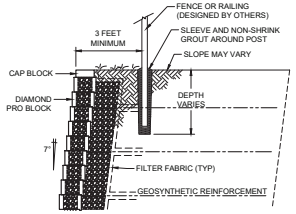


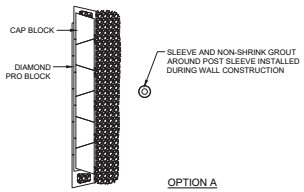


DIAMOND PRO®
9 / W3 INSIDE ANGLE W/ GRID
(NOT TO SCALE)

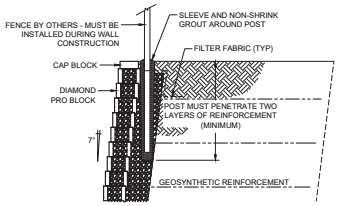


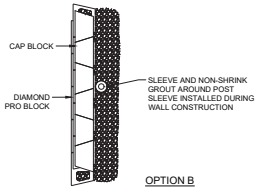
DIAMOND PRO®
10 / W3 INSIDE ANGLED CORNER
(NOT TO SCALE)





OPTION A





OPTION B

DIAMOND PRO®
11 / W3 FENCE BEHIND WALL (IF REQUIRED)
(NOT TO SCALE)

ANCHOR WALL ENGINEERING, LLC
5909 BAKER ROAD, SUITE 550
MINNETONKA, MN 55345-5996
PHONE: (952) 933-8855
CERTIFICATE OF AUTHORIZATION: 27077

This item has been electronically signed and sealed by Jon Huyck, PE on November 3, 2020 using a Digital Signature.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DESIGN ENGINEER: JON C. HUYCK
FLORIDA REGISTRATION: 61043

JON C. HUYCK LICENSE No 61043 STATE OF FLORIDA PROFESSIONAL ENGINEER

VERIFY THAT THIS BAR MEASURES 1" IF NOT, ADJUST THE SCALE ACCORDINGLY

Scale: AS SHOWN

PROPOSED SEGMENTAL RETAINING WALL
HERNANDO COUNTY FIRE STATION #5
SPRING HILL, FLORIDA
TAMPA, FL

OLDCASTLE COASTAL			
Drawn By:	MWI	Rev. No.	Description
Reviewed By:	CLA	Date	
Proj. No.:	AF 20 184		
Date:	11/2/20		

SHEET W3 OF 3

TYPICAL DETAILS