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PROJECT DESCRIPTION

THE OWNER IS DESIROUS OF CONSTRUCTING A CLASS C SUBDIVISION IN ON THE 14 ACRE PARCEL. THIS WILL BE A LOW IMPACT 5% MAX IMPERVIOUS SUBDIVISION WITH 75' BUFFERS. THE PERMITTING REQUIRED WILL BE THROUGH SWFWMD AND HERNANDO COUNTY.

SITE CONSTRUCTION PLANS FOR CLASS "C" SUBDIVISION MR. CASH SMITH SPRING HILL, FLORIDA HERNANDO COUNTY

KEY ID #: 1308230

OWNER/DEVELOPER:
MR. CASH SMITH

SURVEYOR:
JEFF COPELAND SURVEYING, INC.
LB.7905
4300 LAKE IN THE WOODS DRIVE
SPRING HILL, FLORIDA 34607
PHONE: (352) 596-4111

TABLE OF REFERENCE	
#	DESCRIPTION
001	HERNANDO COUNTY FACILITY DESIGN GUIDELINES
002	HCUD SPEC BOOK
003	FDOT STANDARD PLANS FOR ROAD CONSTRUCTION
004	FLORIDA BUILDING CODE 2020, 7TH EDITION
005	FLORIDA FIRE PREVENTION CODE, 7TH EDITION

VICINITY MAP
NO SCALE

AERIAL MAP
NO SCALE

FEMA MAP
NO SCALE

SOILS MAP
NO SCALE

CONTRACTOR SHALL UTILIZE THE FOLLOWING FDOT MOT REFERENCES AS APPROPRIATE	
#	DESCRIPTION
102-600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
102-601	TWO-LANE AND MULTILANE ROADWAY, WORK BEYOND THE SHOULDER
102-602	TWO-LANE AND MULTILANE, WORK ON SHOULDER
102-603	TWO-LANE, TWO-WAY, WORK WITHIN THE TRAVEL WAY

LEGAL DESCRIPTION

A PARCEL OF LAND IN THE SOUTHEAST 1/4 OF SECTION 17, TOWNSHIP 21 SOUTH, RANGE 18 EAST, HERNANDO COUNTY, FLORIDA BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCE AT THE NORTHEAST CORNER OF THE SOUTHEAST 1/4 OF SAID SECTION 17, AND RUN THENCE SOUTH 01°31'04" EAST, A DISTANCE OF 30.00 FEET TO A POINT ON THE SOUTH RIGHT-OF-WAY LINE OF THRASHER AVENUE; THENCE RUN SOUTH 89°59'41" WEST, ALONG THE SAID SOUTH RIGHT-OF-WAY LINE, A DISTANCE OF 1003.59 FEET TO THE POINT OF BEGINNING; THENCE RUN SOUTH 01°36'19" EAST, A DISTANCE OF 191.44 FEET; THENCE RUN NORTH 89°58'53" WEST, A DISTANCE OF 500 FEET; THENCE RUN NORTH 01°01'19" WEST, A DISTANCE OF 1333.33 FEET TO A POINT ON THE AFOREMENTIONED SOUTH RIGHT-OF-WAY LINE; THENCE RUN NORTH 89°58'41" EAST, ALONG SAID RIGHT-OF-WAY LINE, A DISTANCE OF 499.77 FEET TO THE POINT OF BEGINNING.

NOTE: DESCRIPTION HAS A GEOMETRIC CLOSURE ERROR OF APPROXIMATELY 0.62 FEET.

SECTION 17, TOWNSHIP 21S, RANGE 18E

SITE NOTES:

1. SITE AREA: 14.18 ACRES M.O.L.
   PROJECT AREA: 14.18 ACRES M.O.L.
2. PRESENT LAND USE CLASSIFICATION: RURAL
3. PRESENT ZONING OF SITE: AG

SURROUNDING ZONINGS :	SURROUNDING LAND USES :
NORTH: R1C	NORTH: RURAL
EAST: AG	EAST: RURAL
WEST: AG	WEST: RURAL
SOUTH: AG	SOUTH: RURAL

4. EXTERNAL SETBACKS:
   ALL SIDES: 75 FEET
5. INTERNAL LOT SETBACKS:
   FRONT: 25 FEET
   REAR: 25 FEET
   SIDE: 25 FEET
   SIDE: 25 FEET
6. NEW BUILDING DATA:
   MAXIMUM 5% TOTAL IMPERVIOUS AREA FOR ENTIRE SITE
7. POTABLE WATER SUPPLIER: WELL
8. SANITARY SEWER SUPPLIER: SEPTIC
9. ELECTRICAL SERVICE: WREC
10. FIRE PROTECTION: HERNANDO COUNTY FIRE AND RESCUE
11. THE BASE FLOOD ZONE IS SPECIFIED BY THE FLOOD INSURANCE RATE MAP, COMMUNITY PANEL No. 12053C0042D & 12053C0044D, THE ZONE IS "X" AN AREA OF MINIMAL FLOODING, DATED: 03/02/12
12. ALL NEW SIGNS MUST BE APPLIED FOR, APPROVED, AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY APPROVED SITE PLAN. APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY SIGN.
13. RP2 BACKFLOW PREVENTOR: BY CONTRACTOR/BY HCUD
    POTABLE & IRRIGATION METERS: BY CONTRACTOR/BY HCUD
14. ALL CLEAR-SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE, PLANTING, TREES, ETC. IN EXCESS OF THREE AND ONE-HALF (3 1/2) FEET IN HEIGHT.
15. FUGITIVE DUST DURING CONSTRUCTION WILL BE CONTROLLED WITH THE USE OF PERIODIC WATERING.
16. ON SITE BURNING IS PROHIBITED.
17. ALL DISTURBED RIGHT OF WAY SHALL BE SODDED.
18. HERNANDO COUNTY PUBLIC WORKS SHALL BE CONTACTED 24 HOURS PRIOR TO COMMENCING WORK IN THE RIGHT OF WAY AND PRIOR TO PAVING AND SODDING. (352) 754-4050.
19. IN THE EVENT ACTIVE GOPHER TORTOISE BURROWS ARE LOCATED ON THE SITE, CONTACT THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (386) 758-0525.
20. THERE WILL BE NO OUTSIDE LIGHTING PROVIDED ON THIS SITE.

811 Know what's below. Call before you dig.

PROCIVIL 360
CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES
12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE - (352) 585-4295
WWW.PROCIVIL360.COM

CLASS "C" SUBDIVISION
MR. CASH SMITH

COVER SHEET

LEGAL/ELECTRONIC SIGNATURE NOTE:

LARRY E. BOONE
FL PE #67611
SIGNED AND APPROVED
DATE:

PROGRAMS BY: FDD
SEC: 17
TWP: 21
RANGE: 18
DATE: 9/19/24
JOB NUMBER: 24015

SHEET NO.
1 OF 10

User Name: fdica Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcPublish_5032\24015site4.dwg

GENERAL NOTES

1. THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE-CALL 811 (800 432 4770) PRIOR TO BEGINNING ANY EXCAVATION. CALL DEPT. OF PUBLIC WORKS AT 352-754-4062, FOR LOCATES OF FIBER OPTICS, 72 HOURS PRIOR TO DIGGING. "OPW DOES NOT PARTICIPATE IN SUNSHINE ONE CALL"
2. UNLESS OTHERWISE NOTED, ALL CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN THE PROPERTY BOUNDARIES AND ROADWAY RIGHT-OF-WAYS DEPICTED ON THESE PLANS. THE CONTRACTOR SHALL CLEARLY IDENTIFY PROJECT LIMITS BEFORE BEGINNING CONSTRUCTION.
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. ALL WORK TO BE PERFORMED IN THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST PRACTICES OF THE INDUSTRY AND ALL APPLICABLE FEDERAL, STATE, COUNTY AND CITY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS.
5. ALL CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING: FLORIDA BUILDING CODE; FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES; FDOT STANDARD PLANS FOR ROAD CONSTRUCTION; AND THE HERNANDO COUNTY FACILITY DESIGN GUIDELINES, AS APPLICABLE. THE MORE STRINGENT STANDARD GOVERNS UNLESS APPROVED BY THE ENGINEER OF RECORD.
6. DEMOLITION OF SIDEWALKS, CURB CUT RAMPS, CROSSWALKS, ETC. SHALL MEET LATEST ADA REQUIREMENTS. REFER TO FDOT STANDARD PLANS FOR ROAD CONSTRUCTION 523-001 AND 522-002.
7. ALL SIGNS AND PAVEMENT MARKINGS SHALL COMPLY WITH CURRENT HERNANDO COUNTY CODES, REGULATIONS AND REQUIREMENTS.
8. ALL DETAILS, SECTIONS AND NOTES SHOWN ON DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
9. THE TOPOGRAPHIC SURVEY INFORMATION PRESENTED IN THE PLANS IS PROVIDED BY JEFF DOPELAND SURVEYING, INC. THE INFORMATION IS PROVIDED SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTOR IS DIRECTED, PRIOR TO CONSTRUCTION, TO CONDUCT ANY AND ALL INVESTIGATIONS DEEMED NECESSARY TO DETERMINE THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED.
10. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE ACCURACY OF THE INFORMATION CONTAINED IN THE PLANS REGARDING UNDERGROUND UTILITIES PRIOR TO CONDUCTING CONSTRUCTION ACTIVITY IN ANY PART OF THE PROJECT AREA.
11. PRIOR TO BIDDING THE PROJECT, THE CONTRACTOR SHALL APPRISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT MAY BE ENCOUNTERED DURING CONSTRUCTION AND SHALL INCLUDE CONSIDERATION IN THE OVERALL BID ALL ASSOCIATED COSTS FOR SPECIFIC METHODS AND MATERIALS REQUIRED TO WORK AROUND THE APPURTENANCES.
12. THE CONTRACTOR AND SUBCONTRACTORS ARE REQUIRED TO PROMPTLY NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES OR CONFLICTS FOUND IN THE PLANS OR SPECIFICATIONS, PRIOR TO CONSTRUCTION, ANY NEED FOR CLARIFICATION OF PROPOSED IMPROVEMENTS OR FOR RESOLUTION OF DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN WRITING IMMEDIATELY WHEN CONFLICTS ARE IDENTIFIED DURING THE COURSE OF THE WORK.
13. NO CHANGES TO THE WORK AS SHOWN ON THESE PLANS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER OF RECORD. THE CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL CHECK ACTUAL SITE CONDITIONS.
14. THE CONTRACTOR SHALL DOCUMENT THE CONDITIONS OF THE ROADS, RIGHT-OF-WAY, DRIVEWAYS, DRAINAGE FACILITIES, CULVERTS, PLANTS, SHRUBS, FLOWERS, FENCES, MAILBOXES, ETC. IN AND ADJACENT TO THE CONSTRUCTION AREAS PRIOR TO COMMENCEMENT OF CONSTRUCTION. DOCUMENTATION SHALL BE PHOTOGRAPHS AND VIDEO.
15. THE ENGINEER OF RECORD (EOR) SHALL HAVE ACCESS TO THE WORK SITE AT ALL TIMES.
16. EXCAVATIONS SHALL BE FREE OF DEBRIS PRIOR TO BACKFILLING.
17. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIALS FROM THE JOB SITE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DISPOSE OF ALL EXCESS MATERIAL AFTER IT IS DETERMINED THAT IT IS NO LONGER NEEDED ON THE JOB. UNSUITABLE MATERIAL FROM WITHIN THE PROJECT SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR. SUITABLE MATERIAL FROM WITHIN THE PROJECT MAY BE USED FOR FILL, BASE OR SUB-BASE PER SPECIFICATIONS.
18. ALL ROLLERS SHALL BE USED IN STATIC MODE ONLY, NO VIBRATORY COMPACTION.
19. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING FEATURES AND IMPROVEMENTS IN THE CONSTRUCTION AREAS OF THIS PROJECT AND FOR DAMAGE TO ADJACENT PROPERTIES CAUSED BY CONSTRUCTION ACTIVITIES. ANY FENCES, MAILBOXES AND OTHER IMPROVEMENTS THAT ARE DAMAGED SHALL BE RESTORED TO THEIR ORIGINAL OR BETTER CONDITION.
20. IF A SINKHOLE SHOULD FORM ON THE PROJECT SITE, ALL APPLICABLE PROCEDURES OUTLINED IN THE SWFWMD APPLICANTS HANDBOOK, OCTOBER 2013, SHALL BE FOLLOWED. THE ENGINEER OF RECORD AND THE APPROPRIATE PERMITTING AGENCIES MUST BE NOTIFIED IMMEDIATELY FOR REPAIR PROCEDURES.

SURVEY, PLAN AND PROFILE

1. THE VERTICAL INFORMATION OBTAINED FROM THE SURVEY IS BASED UPON NAVD 1988, UNLESS OTHERWISE NOTED.
2. GRADES SHOWN ON PLANS ARE FINISHED CONSTRUCTION GRADES.
3. ALL FIELD LAYOUT AND SURVEYING FOR CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED BY THE CONTRACTOR AT HIS/HER EXPENSE, UNDER THE DIRECTION OF A FLORIDA STATE LICENSED PROFESSIONAL LAND SURVEYOR.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL, MARKINGS AND PROPERTY CORNERS THROUGHOUT THE DURATION OF THE PROJECT.
5. THE CONTRACTOR'S SURVEYOR SHALL RE-ESTABLISH ALL SITE AND RIGHT-OF-WAY CONTROLS BEFORE STARTING CONSTRUCTION. THE CONTRACTOR'S SURVEYOR SHALL IDENTIFY FOR THE CONTRACTOR, ALL UTILITIES, INCLUDING WATER AND WASTEWATER, ELECTRIC, GAS, PHONE AND CABLE UTILITIES THAT ARE LOCATED WITHIN THE SITE AND THE PUBLIC RIGHT-OF-WAY IN THE AREA OF THE PROJECT.
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL EMPLOY THE SERVICES OF A PROFESSIONAL REGISTERED SURVEYOR TO RE-ESTABLISH THE MONUMENT AND REFERENCES AND PROPERLY NOTIFY ALL PUBLIC AGENCIES AND FILE ALL REQUIRED DOCUMENTATION, ALL AT NO ADDITIONAL COST TO THE OWNER.
7. ANY SURVEY MARKER, INCLUDING BUT NOT LIMITED TO SECTION MARKERS, BENCH MARKS, LOT CORNERS, ETC., WHICH ARE DISTURBED DURING CONSTRUCTION, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE PRIOR TO FINAL PAYMENT. RESETTING OF MONUMENTS AND MARKERS SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR LICENSED TO PRACTICE IN THE STATE OF FLORIDA AND SHOWN AS RESET ON AS-BUILTS.
8. THE CONTRACTOR SHALL PROVIDE CERTIFIED AS-BUILT RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR. THE RECORD DRAWINGS SHALL SHOW FINAL GRADES, EDGE OF PAVEMENT, EDGE OF PAVED SHOULDERS AT ALL RECONSTRUCTED DRIVEWAY AND SWALES, AND ALONG REGRADED DITCHES. AS-BUILTS SHALL ALSO INCLUDE ALL BENCHMARKS, STORMWATER STORAGE AREAS, DISCHARGE STRUCTURES, SWALES, SIDE BANKS, UNDERDRAINS, PIPES AND INVERTS.

SAFETY

1. THE CONTRACTOR IS REQUIRED TO HAVE A JOB SAFETY PROGRAM IN PLACE AND IMPLEMENT IT AT ALL TIMES THROUGHOUT THE DURATION OF THE PROJECT.
2. JOB SAFETY PRACTICES SHALL BE IN ACCORDANCE WITH OSHA AND ANY OTHER LOCAL, STATE, AND FEDERAL REGULATIONS.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE SAFE MAINTENANCE OF PEDESTRIAN AND VEHICULAR TRAFFIC AT ALL TIMES DURING THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL, AT ALL TIMES, MAINTAIN SAFE VEHICULAR ACCESS TO ALL PROPERTIES THAT ARE IMPACTED BY THE CONSTRUCTION ACTIVITIES OF THIS PROJECT.

MAINTENANCE OF TRAFFIC (MOT)

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC, (MOT). MOT SHALL BE IN ACCORDANCE WITH THE MOST CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) "FDOT STANDARD PLANS FOR ROAD CONSTRUCTION, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS ON THE STATE HIGHWAY SYSTEM" (FDOT STANDARD PLANS FOR ROAD CONSTRUCTION), CURRENT FDOT INTERIM STANDARDS AND CURRENT FDOT STANDARDS MODIFICATIONS AND THE MOST CURRENT FEDERAL HIGHWAY ADMINISTRATION (FHWA) "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).
2. 2020-2024 FDOT STANDARD PLANS FOR ROAD CONSTRUCTION 102-600 THROUGH 102-670 SHALL TAKE PRECEDENCE. WHERE FDOT STANDARD PLANS FOR ROAD CONSTRUCTION 102-600 THROUGH 102-670 DO NOT ADDRESS AN MOT ISSUE, THE MUTCD SHALL APPLY.
3. CONSTRUCTION AND MAINTENANCE VEHICLES USED ON THE STATE, COUNTY OR CITY RIGHT-OF-WAY SHALL BE EQUIPPED WITH A MINIMUM OF ONE (1) CLASS 2 AMBER OR WHITE WARNING LIGHT THAT MEETS THE SOCIETY OF AUTOMOTIVE ENGINEERS (SAE) RECOMMENDED PRACTICE SAE J595 OR SAE J1318, INCORPORATED HEREIN BY REFERENCE, THAT IS UNOBSTRUCTED BY ANCILLARY VEHICLE EQUIPMENT SUCH AS LADDERS, RACKS, OR BOOMS. IF ANCILLARY EQUIPMENT OBSTRUCTS THE LIGHT MORE THAN ONE LIGHT MAYBE REQUIRED. THE LIGHTS SHALL BE OPERATING WHEN A UTILITY VEHICLE IS OPERATED IN A UTILITY WORK AREA, WHEN A POTENTIAL HAZARD EXISTS OR WHEN OPERATING THE VEHICLE AT LESS THAT THE AVERAGE SPEED FOR THE FACILITY WHILE PERFORMING PROJECT RELATED ACTIVITIES OR MAKING FREQUENT STOPS.
4. THE CONTRACTOR SHALL ENSURE THAT EQUIPMENT AND CONSTRUCTION ACTIVITY DOES NOT IMPEDE VISIBILITY OF THE ROADWAY USER WITHOUT TAKING THE NECESSARY PRECAUTIONS OF PROPER SIGNING AND MAINTENANCE OF TRAFFIC OPERATIONS.
5. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EFFECTIVE BARRICADES, WARNING SIGNALS, SIGNAGE AND PEDESTRIAN DETOURS IN ALL AREAS WHERE REQUIRED FOR PROTECTION OF THE WORK AND SAFETY OF THE PUBLIC.
6. SIGNS, POSTS AND HARDWARE SHALL BE FDOT-CERTIFIED AND INSTALLED IN ACCORDANCE WITH CURRENT FDOT AND MUTCD STANDARDS.

UTILITIES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UTILITY COORDINATION AND DAMAGE TO UTILITIES. INDICATED LOCATION OF UNDERGROUND UTILITIES, STRUCTURES AND FACILITIES ON PLANS IS APPROXIMATE AND REFLECTS THE BEST INFORMATION AVAILABLE FROM SURVEYS AND RECORDS. THE CONTRACTOR SHALL VERIFY AND BECOME FAMILIAR WITH THE LOCATION, DEPTH AND EXTENT OF UNDERGROUND FACILITIES ON EACH STREET OR ROADWAY PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY WHICH MAY AFFECT SUCH FACILITIES. THE CONTRACTOR IS HEREBY ADVISED THAT SOME EXISTING UTILITIES MAY BE HAZARDOUS IF DAMAGED.
2. GAS, POWER, TELEPHONE AND CABLE TELEVISION UTILITIES TO BE ADJUSTED BY THE RESPECTIVE UTILITY PROVIDER.

UTILITY OWNERS	TELEPHONE NUMBERS
TECO / PEOPLES GAS	(813) 275-3725
WITHLACOOCHEE ELECTRIC	(352) 686-4005
AT&T DISTRIBUTION	(352) 796-0178
SPECTRUM, LLC.	(352) 746-7684
HERNANDO CO. UTILITIES	(352) 754-4757

3. THE CONTRACTOR SHALL NOTIFY AND CALL 811 PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS TO RESOLVE CONFLICTS WHICH MAY ARISE IN THE FIELD DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO AFFECTED UTILITIES COMPANIES IN ORDER TO PERMIT THE LOCATION, OF THE EXISTING UNDERGROUND UTILITIES IN THE VICINITY OF CONSTRUCTION, CALL DEPT. OF PUBLIC WORKS AT 352-754-4060, FOR LOCATES OF FIBER OPTICS, 72 HOURS PRIOR TO DIGGING. "OPW DOES NOT PARTICIPATE IN SUNSHINE ONE CALL"
4. THE CONTRACTOR SHALL CONTACT HERNANDO COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO ANY CONSTRUCTION TO COORDINATE ANY ACTIVITIES THAT MAY AFFECT TRAFFIC SIGNALIZATION.
5. THE CONTRACTOR IS RESPONSIBLE FOR BRACING, SHORING OR PROVIDING OTHER MEANS NECESSARY TO PROTECT AND SUPPORT EXISTING UTILITIES EXPOSED DURING CONSTRUCTION UNTIL THE RESPONSIBLE UTILITY ARRIVES ON SITE.
6. THE CONTRACTOR SHALL HAND EXCAVATE WHEN CONSTRUCTION IS WITHIN 18 INCHES OF EXISTING UTILITIES. CAUTION SHALL BE EXERCISED TO LOCATE THE EXACT DEPTH OF ALL COUNTY UTILITIES. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY REQUIRED ADJUSTMENTS WITH THE DEPARTMENT OF PUBLIC WORKS.
7. CONTRACTOR SHALL COORDINATE RELOCATION OF OVERHEAD UTILITIES TO MEET THE MINIMUM VERTICAL CLEARANCE OF 18 FEET AND THE HORIZONTAL CLEAR ZONE DISTANCE.

RESTORATION

1. ALL AREAS INSIDE AND OUTSIDE THE PROJECT LIMITS, WHICH ARE DISTURBED AS A RESULT OF THE PROJECT CONSTRUCTION, SHALL BE RESTORED TO ORIGINAL OR DESIGN GRADE AS APPLICABLE.
2. ALL AREAS OF EXPOSED EARTH RESULTING FROM CONSTRUCTION SHALL BE SODDED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD. SOD TO BE OF SAME TYPE REMOVED, FRESH, GREEN AND FREE OF WEEDS. ALL VOIDS AFTER PLACEMENT OF SOD SHALL BE FILLED WITH PREPARED SOIL MIX AND THE SOD SHALL BE ROLLED TO MEET PROPOSED GRADES. SOD PLACED ON SLOPES 3:1 OR STEEPER SHALL BE STAKED.

ENVIRONMENTAL

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND THE TRANSPORTATION OF SEDIMENT TO SURFACE DRAINS AND OUTFALLS.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PER THE REQUIREMENTS OF THE NPDES PERMIT (TO BE SECURED BY CONTRACTOR). THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH ALL REQUIREMENTS OF THE EPA NPDES PERMIT FOR THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY STORMWATER DISCHARGE PERMIT AND/OR DEWATERING PLAN AND SHALL COMPLY WITH THE CONDITIONS SET FORTH THEREIN.
3. ALL EXISTING STORMWATER DRAINAGE PATTERNS AND CHANNELS OUTSIDE THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE WORK APPEARS TO INTERRUPT AN EXISTING STORM WATER DRAINAGE PATTERN. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TEMPORARY DRAINAGE MEASURES IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS, AND IMPACTS TO STRUCTURES AND ANY OTHER DAMAGE CAUSED DURING CONSTRUCTION.
4. THE CONTRACTOR SHALL COMPLY WITH THE TURBIDITY CONTROL REQUIREMENTS OF ANY APPLICABLE FDEP/SWFWMD PERMITS TO PREVENT INCREASES IN TURBIDITY IN EXCESS OF WATER QUALITY STANDARDS.
5. THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT INTO DRAINAGE DITCHES DUE TO CONSTRUCTION OPERATIONS. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT INTO A DRY OR WET WATERCOURSE. EROSION CONTROL SHALL CONSIST OF ANCHORED HAY BALES, SILT FENCE OR OTHER CONTROL METHODS APPROVED BY THE PROJECT ENGINEER. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE FLUSHED CLEAN PRIOR TO FINAL PAYMENT.
6. REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR PROPERLY MAINTAIN REQUIRED EROSION CONTROL WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS AS PROVIDED BY APPLICABLE LOCAL ORDINANCE AND CHAPTERS 403-4 AND 403-40, F.A.C.
7. EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED DAILY AND REPAIRED WITHIN 24 HOURS OF A NOTED DEFICIENCY.
8. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND OR NATIVE VEGETATION AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED IN ACCORDANCE WITH APPLICABLE PLAN DETAIL AND SPECIFICATION SECTIONS. BEFORE COMMENCING CONSTRUCTION ACTIVITIES OR ADJACENT TO WETLANDS JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED. SILT FENCING SHALL BE CONSIDERED AS THE LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.
9. STAKED OR FLOATING SILT SCREENS OR FIBER ROLLS SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE APPROVED STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. THESE BARRIERS SHALL BE INSTALLED BEFORE COMMENCING ANY CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS. THE CONTRACTOR SHALL MONITOR AND MAINTAIN ALL SILT BARRIERS AND FENCING, INCLUDING PERFORMING DAILY INSPECTIONS, TO CHECK THEIR INTEGRITY. ANY LOOSE OR DAMAGED SILT BARRIERS AND FENCING SHALL BE IMMEDIATELY REPAIRED OR REPLACED AS NECESSARY. ONCE CONSTRUCTION IS COMPLETED AND FINISHED GRADING AND STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS AND FENCING SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE ENGINEER OF RECORD AND CITY PUBLIC WORKS DEPARTMENT BEFORE FINAL ACCEPTANCE.
10. ALL WATER COLLECTED AND PUMPED DURING DEWATERING ACTIVITIES SHALL BE DISPERSED OF IN UPLAND AREAS INTO DOUBLE STAKED FIBER ROLLS. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST WATER BODY OR WETLAND AREA TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.
11. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO WETLANDS WHERE SEDIMENTATION FROM STOCKPILES MAY CAUSE DAMAGE TO WETLANDS. ADDITIONALLY, SILT BARRIERS AND FENCING SHALL CONTINUOUSLY AND FULLY ENCIRCLE ALL STOCKPILES WHICH WILL REMAIN FOR LONGER THAN 24 HOURS TO CONTAIN MATERIALS WITHIN A REASONABLY CONFINED AREA.
12. EMBANKMENTS SHALL BE PROTECTED FROM EROSION OR COLLAPSE DURING CONSTRUCTION. EMBANKMENT PROTECTION MATERIAL SHALL BE CAREFULLY PLACED ON THE BANK AND NOT DUMPED FROM ABOVE IN AN UNCONTROLLED MANNER. SANDBAGS SHALL BE USED FOR PROTECTING THE BANKS. UPON COMPLETION OF CONSTRUCTION, EMBANKMENTS AND WATERWAYS SHALL BE RESTORED TO THEIR PRE-CONSTRUCTION CONFIGURATION AND PROTECTED FROM EROSION.
13. CONTRACTOR IS RESPONSIBLE FOR COORDINATING VEGETATION REMOVAL PERMITS WITH FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, HERNANDO COUNTY AND ENGINEER, BEFORE CONSTRUCTION.
14. THE CONTRACTOR SHALL NOT REMOVE ANY TREES WITHOUT COORDINATING SUCH REMOVAL WITH THE HERNANDO COUNTY AND ENGINEER OF RECORD. IF ANY TREES ARE REMOVED IN WETLAND JURISDICTIONAL AREAS OR NATIVE VEGETATION AREAS WITHOUT PROPER AUTHORIZATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A DETAILED RESTORATION AND/OR MITIGATION PLAN, SUBMITTING PLAN TO, AND OBTAINING APPROVALS, AS APPLICABLE, FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT, HERNANDO COUNTY AND ENGINEER, AND COMPLETING ANY MONITORING AND MAINTENANCE REQUIREMENTS IMPOSED AS A RESULT OF TREE REMOVAL.
15. THE CONTRACTOR IS RESPONSIBLE FOR ALL FUGITIVE DUST AND SHALL CONTROL ALL DUST ONSITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF PAVEMENT OR VEGETATION. WATERING OR THE APPLICATION OF OTHER APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT PAVEMENT, GRASS, LANDSCAPING OR OTHER SITE RESTORATION WORK SHALL COMMENCE AS SOON AS PRACTICABLE.

DRAINAGE NOTES:

1. MIAMI CURBS AND VALLEY GUTTER SHALL BE CONSTRUCTED USING 3,000 PSI FIBERMESH CONCRETE AND BE PER HERNANDO COUNTY FACILITY DESIGN GUIDELINES ROADWAY STANDARD CURBS AND GUTTERS, NO. IV-26.
2. CURB END TRANSITIONS TO MEET FDOT STANDARD PLANS FOR ROAD CONSTRUCTION NO. 520-001
3. ROADSIDE SWALE GEOMETRY SHALL BE PER CURRENT FDOT GREENBOOK STANDARDS.
4. SWALES SHALL BE SODDED AT THE CONTRACTOR'S EXPENSE, UNLESS OTHERWISE APPROVED BY THE ENGINEER OF RECORD. SOD TO BE OF SAME TYPE REMOVED, FRESH AND FREE OF WEEDS.
5. UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER OF RECORD, CONSTRUCTION OF STORM DRAINAGE SYSTEMS SHALL CONFORM TO APPLICABLE SECTIONS OF THE FOLLOWING (LATEST EDITIONS)
   - THE HERNANDO COUNTY FACILITY DESIGN GUIDELINES.
   - FLORIDA DEPARTMENT OF TRANSPORTATION "FDOT STANDARD PLANS FOR ROAD CONSTRUCTION";
   - FLORIDA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION;"
   - DRAINAGE MANUAL, FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)
   - DRAINAGE MANUAL, STORM DRAINS: FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT)
6. ALL DESIGNATED DRAINAGE STRUCTURE TYPES AND CORRESPONDING INDEX NUMBER REFER TO FDOT STANDARD AS SET FORTH IN FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION. OTHER FDOT STANDARD INDEXES APPLY AS APPLICABLE WHETHER SHOWN IN THESE PLANS OR NOT.
7. ALL DRAINAGE MATERIALS, CASTINGS AND WORK SHALL MEET THE FDOT STANDARD SPECIFICATION UNLESS SPECIFICALLY OTHERWISE INDICATED ON THE PLANS.
8. ALL AS-BUILT DIMENSIONS AND ELEVATIONS, MATERIAL CERTIFICATIONS, AND ONSITE TEST RESULTS SHALL BE SUBMITTED TO THE ENGINEER FOR HIS REVIEW AND APPROVAL PRIOR TO THE INITIATION OF RESPECTIVE PAVEMENT BASE CONSTRUCTION OPERATIONS.
9. ALL STRUCTURE INSTALLATIONS SHALL INCLUDE BACKFILL PLACED AND COMPACTED IN ACCORDANCE WITH FDOT REQUIREMENTS AND STANDARDS.

TESTING

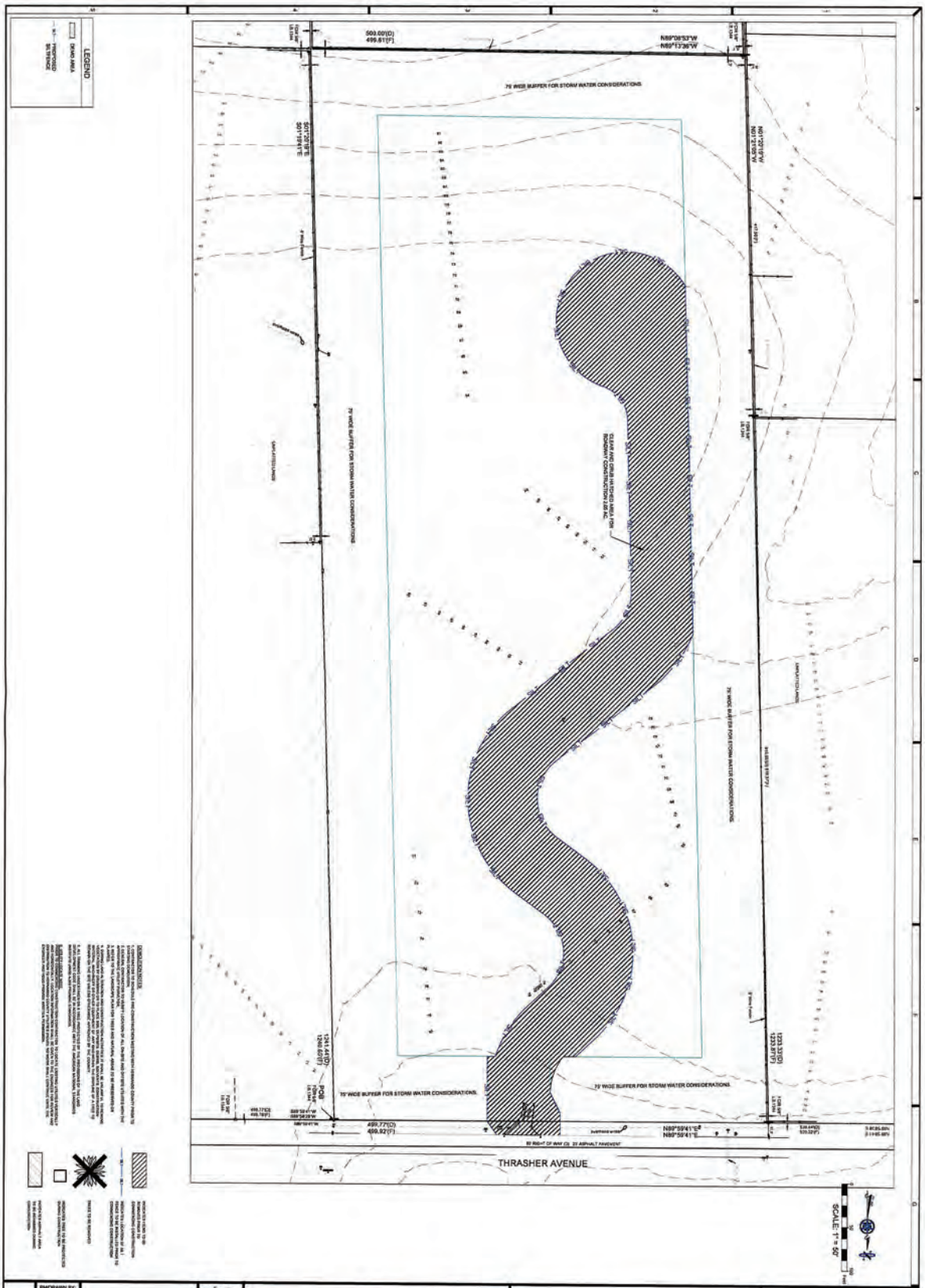
1. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED TESTING.
2. TESTING SHALL BE ACCOMPLISHED BY AN INDEPENDENT AND CERTIFIED TESTING LABORATORY. PRINCIPALS AND/OR OWNERS OF THE TESTING LABORATORY SHALL NOT HAVE ANY FINANCIAL INTEREST IN THE COMPANY PERFORMING THE WORK.
3. ANY FAILURES IN THE TEST WILL BE CORRECTED AND RETESTED PRIOR TO THE CONTINUATION OF WORK AT THAT LOCATION. THE PROJECT WILL NOT BE ACCEPTABLE UNTIL ALL TESTS AND VERIFICATION THEREOF HAVE BEEN SUBMITTED TO AND APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL PAY FOR ANY RETESTING DUE TO EVIDENCE OF FAILURE IN THE ORIGINAL TEST.
4. ALL TESTING SHALL BE APPROVED BY ENGINEER OF RECORD PRIOR TO COMMENCING THE NEXT PHASE OF CONSTRUCTION, ROUGH GRADE, UNDERGROUND UTILITIES AND STORM DRAIN, SUB-BASE, BASE, WEARING SURFACE, FINAL GRADING AND EROSION CONTROL.
5. THE TEST RESULTS SHALL BE IN A FORMAT THAT PROVIDES THE TEST RESULT, THE STANDARD IT WAS SUPPOSED TO MEET AND WHETHER IT PASSED OR FAILED. THE TEST LAB OR GEOTECHNICAL ENGINEER OF RECORD WILL CERTIFY THAT ALL TESTING MET CITY OF BROOKSVILLE/HERNANDO COUNTY STANDARDS.

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENTS	TEST FREQUENCY
Base	Thickness (Inches) Compressive Strength	AASHTO T 148/D, AASHTO T 27/T 11, FM 5-515	98-100	One per sample, density test per 10,000 sq. ft. of pavement area
	Thickness, Field Density	AASHTO T99, T238, ASTM D1556, D2922	95% of Maximum Density, AASHTO T-180-C 12" increase	Each 4" course, every 500 feet, alternating left and right of centerline
	Sand Equivalent, Atterberg Limit	FM 5-515, FM 5-507	20 MIN/4 MAX (Non-Structural)	One Per source
Stabilized Subgrade	Bearing Values	Florida DOT LBR, FM 5-515	Minimum, @ LBR	One per Material Type*
	Maximum Density, Optimum Moisture	AASHTO T-180-C, ASTM D1557	N/A	One per Material Type
	Thickness, Field Density	AASHTO T99, T238, ASTM D1556, D2922	98% of Maximum Density, AASHTO T-180-C, 12" maximum	One shall be for every more 500 feet (per traffic lane, and alternated from the left lane to the right lane per the test)
Concrete	Slump Test	AASHTO T 119-11, ASTM C143	Florida DOT	One per set of cylinders
	Compressive Strength Cylinder	AASHTO T23-06, ASTM C31, C39	Florida DOT Spc 346-5	One set of 3 cylinders for 100 CY or less. If more or if mixture proportions each day are called for by the engineer 1 to be tested at 7 days, 1 at 28 days and 1 held
	Air Content	AASHTO T 196-93	Florida DOT	Florida DOT, One per days production
	Rolling Straight Edge Or Contoured Zone Profiler	Florida 2021, FM 5-509	Florida DOT	Florida DOT
	Superplasticizer Admixture	Florida DOT	Florida DOT	One per Structure
	Design Mix	Florida DOT	Florida DOT	One per Type
	Consistency Contour	Florida DOT Modified, AASHTO T 196	Florida DOT	One per day
Asphaltic Concrete	Abutment Stability Plots	Florida DOT	Florida DOT	One per Day
	Field Density	ASTM D2950-91	97% of Lab Density	One Density could consist every 500 LF or One density per 10,000 S.Y of pavement area
	Properties Of In-Place Materials	Marshall (Asphalt Institute MS-2)	Florida DOT	One per Day
	Production	Florida DOT	Florida DOT, Or substitute	One Moisture could consist every 500 LF
	Maximum Density, Optimum Moisture	AASHTO T99, ASTM D698	Florida DOT Std. 120	Per Soil Type
Embankment	Field Density	AASHTO T 191, T238, ASTM D1556, D2937, D2922	100% of Maximum Density, AASHTO T-180-C	One per 500' horizontally, alternating lifts (1 ft.)
Utility Trench Backfill under roadways and structures	Maximum Density, Optimum Moisture	AASHTO T99, ASTM D698,	N/A	Per Soil Type
	Field Density	AASHTO T 191, T238, ASTM D1556, D2937, D2922	100% of Maximum Density, AASHTO T-180	One per 500' horizontally, alternating lifts (1 ft.)
	Maximum Density, Optimum Moisture	AASHTO T99, ASTM D698,	N/A	Per Soil Type
Backfill of Structures	Field Density	AASHTO T 191, T238, ASTM D1556, D2937, D2922	100% of Maximum Density, AASHTO T-180	Each 2 ft. but not to exceed 5' vertically

* Test shall be located no more than 500' apart. Tests shall be performed on each lift. Areas that tests should not be further apart than one test every 500 linear feet in any direction, and alternating on each roadway. Field Densities shall be taken over all load carriage. Field Densities for footings base shall be required at intervals every one test per footing. Please check for a minimum of two tests conducted each day for each lift or a portion thereof conducted.

ABBREVIATIONS LEGEND

AC	AIR CONDITIONER
AGP	ABOVE GROUND POOL
BLDG	BUILDING SHED NO SLAB
BLDG	BUILDING
BWF	BARBED WIRE FENCE
C	CALCULATED FROM RECOR



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CLASS "C" SUBDIVISION
MR. CASH SMITH

SURVEY-DEMO PLAN

PM DRAWN BY: FAD
SCALE: SEE PLAN
DATE: 9/19/24
SEC: 17
TWP: 21
RANGE: 19
JOB NUMBER: 24015

LARRY G. BOONE
FL PE 69476
EXAMINED AND APPROVED
DATE

SHEET NO. 3 OF 10

DESCRIPTION	REV. BY	DATE
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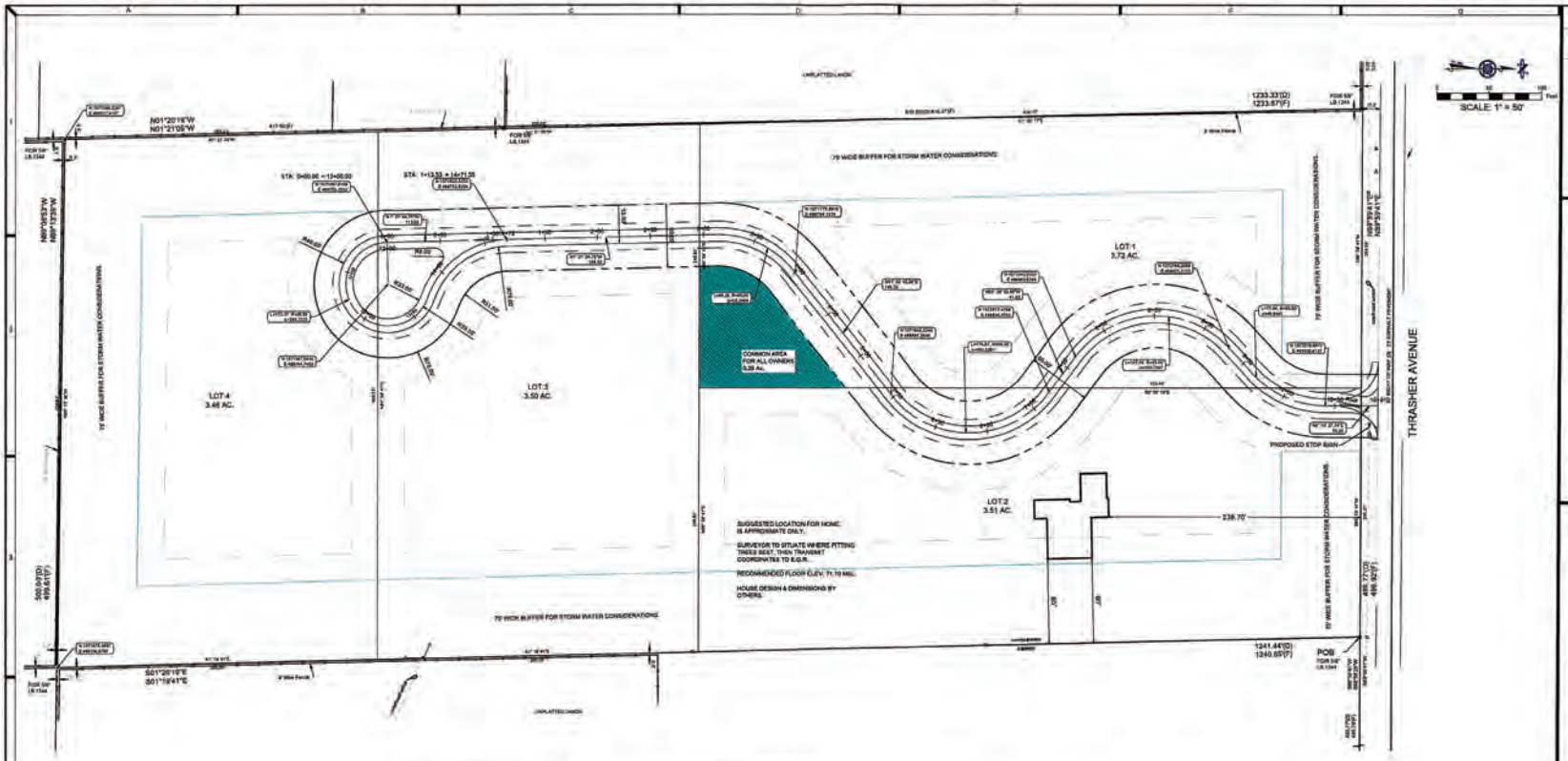


GENERAL ALIGNMENT
IN THE DESIGN OF ROADWAY CURVES, IT IS NECESSARY TO ESTABLISH A PROPER RELATIONSHIP BETWEEN CURVATURE OF THE ROADWAY AND ITS DESIGN SPEED.
SHARP HORIZONTAL OR VERTICAL CURVATURE SHOULD NOT BE USED IN THE FOLLOWING LOCATIONS:
- AT OR NEAR A CREST IN GRADE;
- AT OR NEAR A LOW POINT OR SAG IN GRADE;
- AT THE END OF LONG TANGENTS;
- AT OR NEAR INTERSECTIONS.

NOTE THAT GOOD ROADWAY ALIGNMENT SHALL INCLUDE PROPER ROADSIDE DESIGN INCLUDING: SHOULDERS, FRONT AND BACK SLOPES, CLEAR ZONE, AND THE TREATMENT OF ALL OTHER FEATURES LOCATED WITHIN THE RIGHT-OF-WAY.

HORIZONTAL ALIGNMENT
TABLE 1, PROVIDES THE CENTERLINE RADIUS FOR VARIOUS DESIGN SPEEDS FOR ROADWAYS DESIGNED USING A "NORMAL" CROWN (-2% / -2%).
THE USE OF SUPERELEVATION MAY BE EMPLOYED TO COUNTERACT CENTRIFUGAL FORCE AND ALLOW DRIVERS TO COMFORTABLY AND SAFELY TRAVEL THROUGH CURVES OF A SHARPER DESIGN. SUPERELEVATION DESIGN SHALL BE ACCOMPLISHED PER THE FDOT GREENBOOK & DESIGN STANDARDS (INDEX), LATEST EDITIONS.

VERTICAL ALIGNMENT
CHANGES IN GRADE SHALL BE CONNECTED BY A PARABOLIC CURVE. VERTICAL CURVES ARE REQUIRED WHEN THE ALGEBRAIC DIFFERENCE OF INTERSECTING GRADES EXCEED THE VALUES GIVEN IN TABLE 2.
THE MINIMUM LENGTH OF A VERTICAL CURVE IS OBTAINED FROM CALCULATIONS USING THE "K" VALUES IN TABLE 3. VERTICAL CURVE LENGTH SHALL NOT BE LESS THAN THREE (3) TIMES THE DESIGN SPEED OF THE ROADWAY.

RESIDENTIAL ACCESS LOOPS
THE USE OF DNE OR TWO WAY ACCESS LOOPS, PARTIAL CUL-DE-SACS, (ALSO REFERRED TO AS "EYEBROWS", "BULB-OUTS", "BULGES") OR OTHER MEANS TO PROVIDE ADDITIONAL PAVEMENT ON HORIZONTAL OR VERTICAL CURVES IS NOT ALLOWED.

TABLE 1
HORIZONTAL CURVATURE W/ NORMAL CROWN (-2%/-2%)

V (MPH)	COLLECTOR f	COLLECTOR RADIUS	RESIDENTIAL f	RESIDENTIAL RADIUS
15			0.350	50'
20			0.300	95'
25			0.240	180'
30			0.200	305'
35	0.200	405'		
40	0.170	690'		
45	0.140	1040'		
50	0.140	1280'		
55	0.135	1750'		
60	0.130	2340'		

f = COEFFICIENT OF FRICTION

HORIZONTAL CURVE FORMULA

$$R = \frac{V^2}{15(E+F)}$$

R = RADIUS (IN FEET)
V = VELOCITY (MPH)
E = SUPERELEVATION RATE (%)
F = COEFFICIENT OF FRICTION

TABLE 2
MAX CHANGE IN GRADE W/O USING VERTICAL CURVE

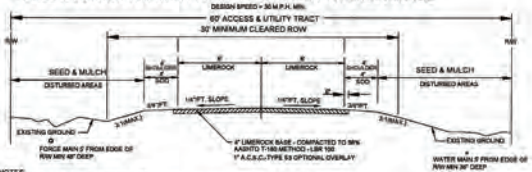
DESIGN SPEED (MPH)	15	20	25	30	35	40	45	50	55	60
MAX CHANGE IN % GRADE	1.3	1.1	1.00	0.90	0.80	0.70	0.65	0.60	0.55	0.50

TABLE 3
MINIMUM LENGTHS FOR VERTICAL CURVES
L = KA

L=LENGTH OF VERTICAL CURVE; A=ALGEBRAIC DIFFERENCE OF GRADES IN PERCENT										
DESIGN SPEED (MPH)	15	20	25	30	35	40	45	50	55	60
K VALUE - CREST CURVES	10	19	29	44	61	84	114	151	193	247
K VALUE - SAG CURVES	17	26	37	49	64	79	96	113	130	150

SEE GUIDELINES IV-04 THROUGH IV-12 FOR DETAILS OF SPECIFIC ROADWAY SECTION INFORMATION.

CLASS C SUBDIVISION ROAD 10 LOTS AND UNDER - OPEN DRAINAGE
DESIGN SPEED = 30 M.P.H. MIN.



GENERAL NOTES:
DESIGN SPEED, RIGHT-OF-WAY, AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITIONS MAY REQUIRE INCREASES.

ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

TYPICAL SECTIONS
NOT TO SCALE

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[DIGITAL-ELECTRONIC SIGNATURE NOTE]

CLASS "C" SUBDIVISION
MR. CASH SMITH
HERNANDO COUNTY
SITE PLAN

REV. BY	DATE
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LARRY E. BRYAN, FL. PE #4672
DRAWING NO. AND APPROVED
DATE
PROGRAM NO. AND TYPICAL SECTION
DATE
SHEET NO.
4 OF 10
JOB NUMBER
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TYP.
SHEET
SCALE
DESIGNED
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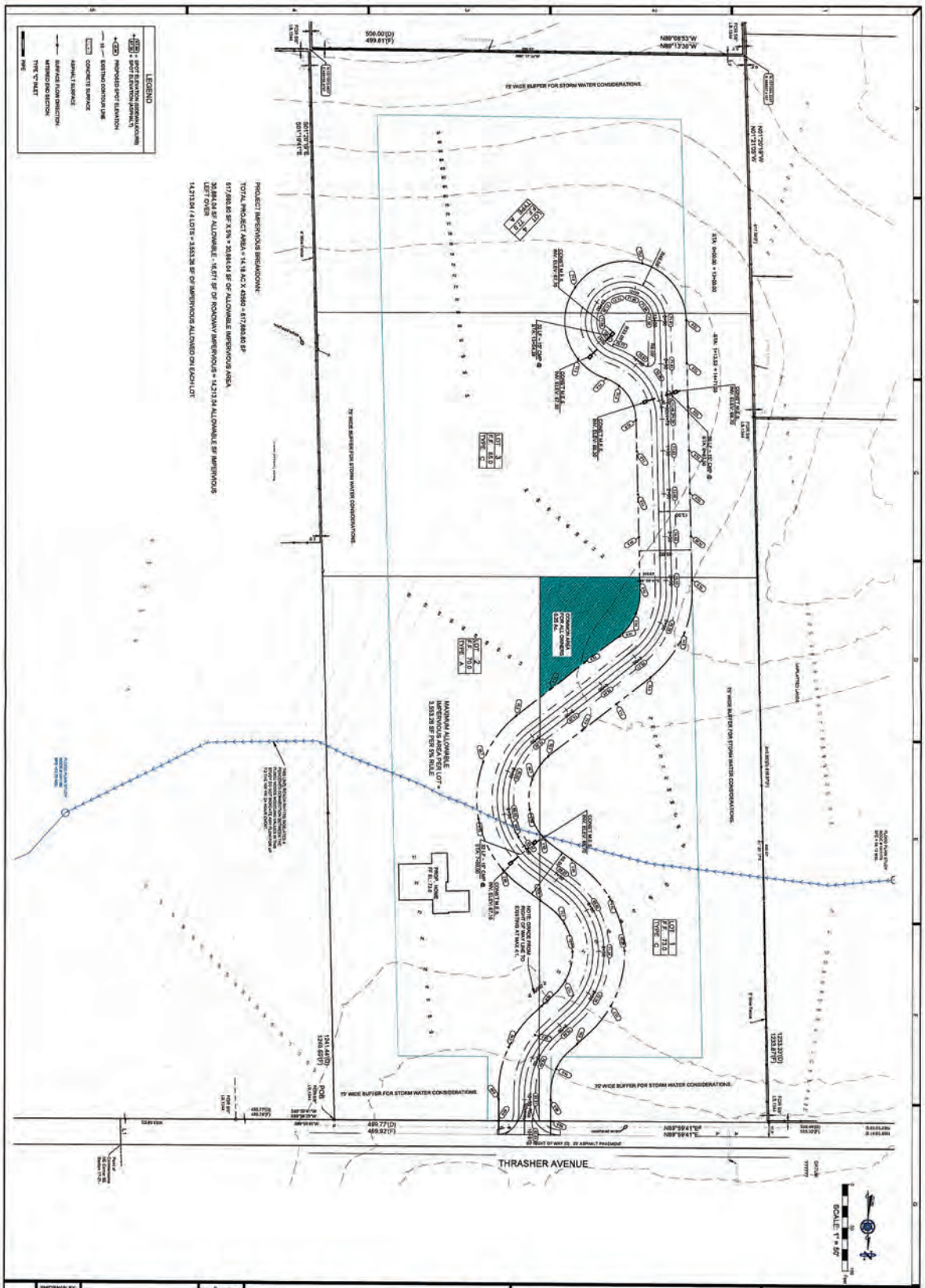

5 of 10 sheets	PM/DRAWN BY: FAD SCALE: SEE PLAN DATE: 9/19/24 SEC: 12 TWP: 23 RANGE: 18 JOB NUMBER: 24015	LARRY G. BOSNE FL PE 49402 EXAMINED AND APPROVED DATE:	PROCIVIL 360 CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES 12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE - (352) 593-4255 WWW.PROCIVIL360.COM	CLASS "C" SUBDIVISION MR. CASH SMITH GRADING & DRAINAGE PLAN

DESCRIPTION	REV. BY	DATE
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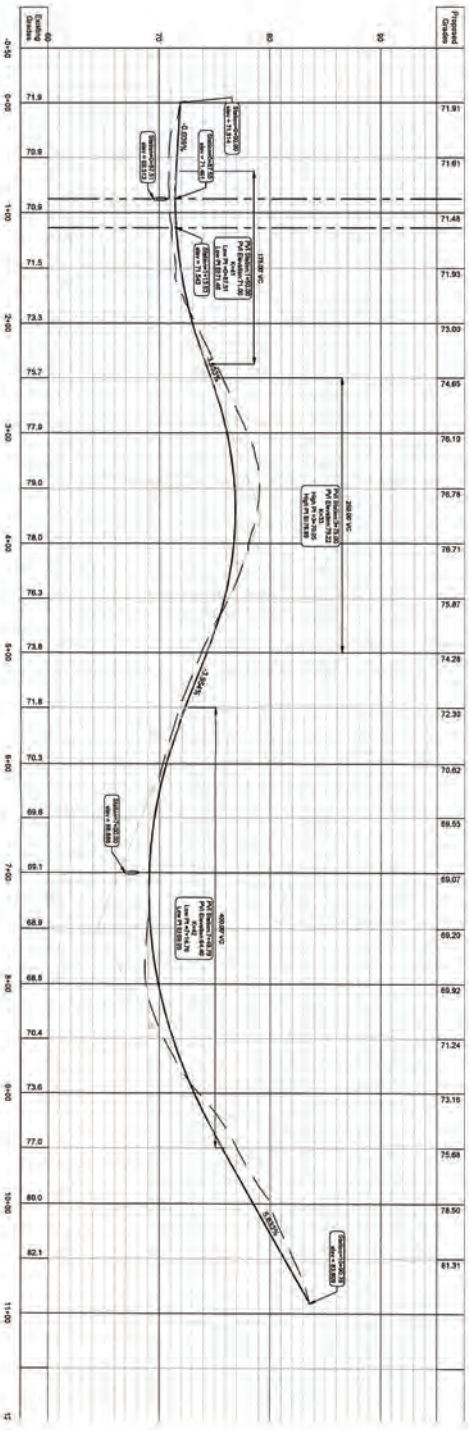

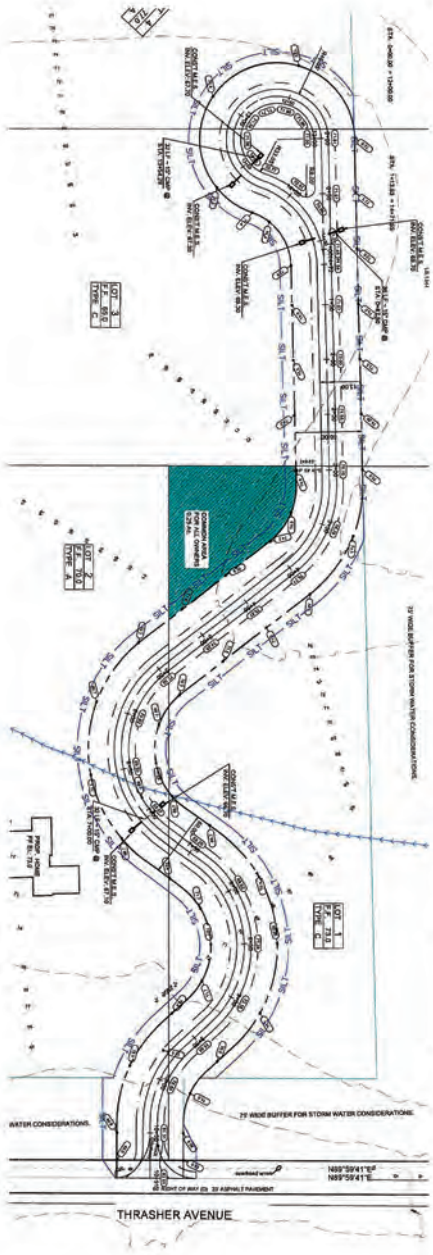

SCALE: 1" = 30'

SHEET NO. 6 OF 10	PREPARED BY: FAD	LARRY G. BOKINS FL PE 49470	PROCIVIL 360	CLASS "C" SUBDIVISION MR. CASH SMITH	
	SCALE: SEE PLAN	EXAMINED AND APPROVED	CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES	PLAN AND PROFILE 1	
	DATE: 9/19/24	DATE	12 SOUTH MAIN STREET, BROOKSVILLE, FL, 34601 PHONE - (352) 593-4255 WWW.PROCIVIL360.COM		
	SEC: 17				
	TWP: 21				
	RANGE: 18				
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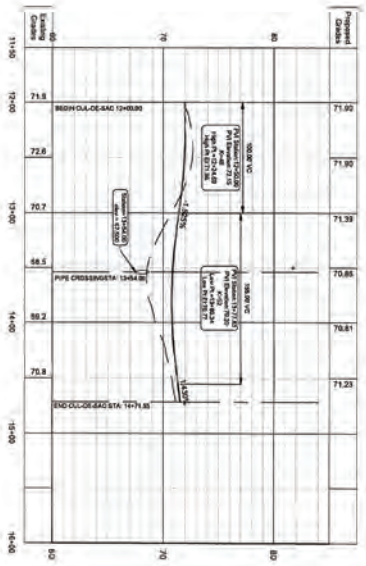

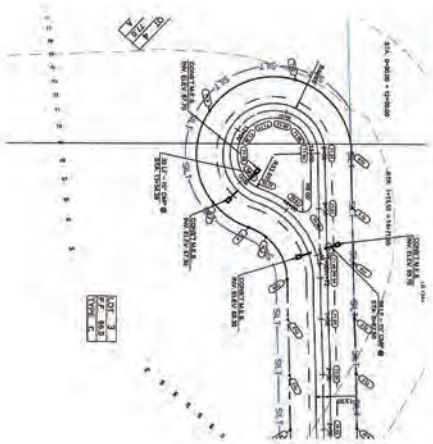

SHEET 7 OF 10	PM/DRAWN BY: FAD SCALE: SEE PLAN DATE: 8/19/24 SEC: 17 TWP: 23 RANGE: 18 JOB NUMBER: 24015	LARRY D. BOONE FL PE 49472 EXAMINED AND APPROVED DATE:	DAVID CHARLES BOONE, PE 49472	PROCIVIL 360 CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES 12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE - (352) 593-4255 WWW.PROCIVIL360.COM	CLASS "C" SUBDIVISION MR. CASH SMITH PLAN & PROFILE 2	???? / ???? / ???? DESCRIPTION / REVISION HISTORY / REV. BY / DATE

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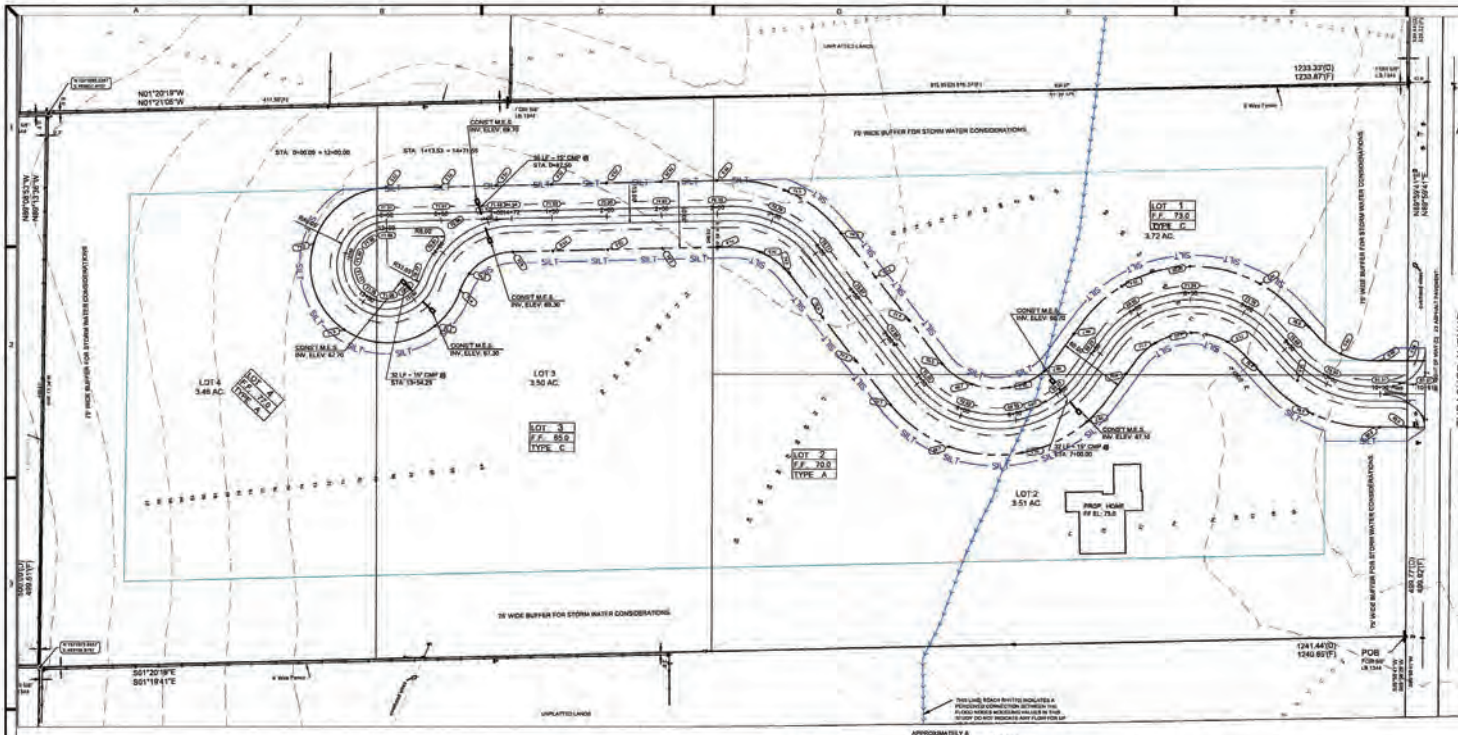
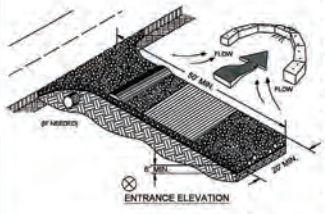
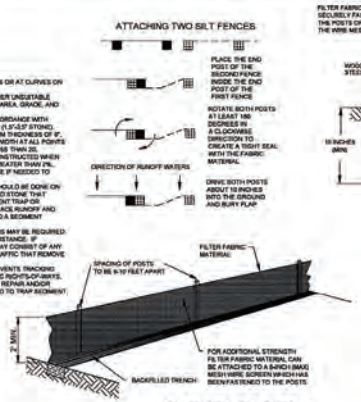




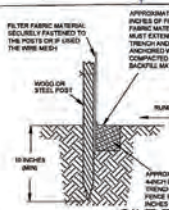
CRUSHED STONE CONSTRUCTION ENTRANCE

ENTRANCE DIAGRAM

NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20.
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DWEP). ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASH RACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND GRIT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.



SILT FENCE DETAIL



NOTES:
-FOR ADDITIONAL INFORMATION AND DETAILS, SEE FDOT INDEX NO.103.
-UNLESS STATE SPECIFIED, HAY BARRIERS MAY BE USED IN LIEU OF SILT FENCES.
-ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
-ADDITIONAL FENCE LENGTHS MAY BE REQUIRED BY THE COUNTY ENGINEER OR BY REGULATORY AGENCIES.
-TYPE-III NORMALLY USED, WHERE REQUIRED
-TYPE-IV USED WHERE LARGE SEDIMENT LOADS ANTICIPATED, SEE FDOT INDEX 103

DO NOT DEPLOY IN A MANNER SO THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS ARE TO BE USED AT PERMANENT BODIES OF WATER.

SILT FENCE INSTALLATION DETAIL

CONSTRUCTION NOTES:

HERNANDO COUNTY & SWFWMD REQUIRE THE SUBMISSION OF AS-BUILTS WITHIN 30 DAYS OF COMPLETION OF CONSTRUCTION. FOR FINAL FORMAT APPROVAL (TRANSFER TO OPERATION). THIS AS-BUILT INFORMATION MUST BE CERTIFIED BY THE ENGINEER OF RECORD, TO ENSURE SUBSTANTIAL COMPLIANCE WITH THE PERMITTED PLANS. TO ASSIST WITH THIS PROCESS, THE ENGINEER WILL NEED TO MAKE PERIODIC VISITS TO THE SITE. THESE VISITS SHALL BE MADE AS FOLLOW:

1. AFTER DRAINAGE STRUCTURES HAVE BEEN PLACED AND PRIOR TO BACK FILLING.
2. AFTER LIMEROCK HAS BEEN PLACED AND COMPACTED FOR FINAL PAVING.
3. AFTER FINAL GRADE PRIOR TO SOD PLACEMENT.
4. UPON COMPLETION OF THE SITE AND SUBMISSION, OF AN AS-BUILT SURVEY SIGNED AND SEALED BY A REGISTERED LAND SURVEYOR.

TO ASSIST US WITH THE TIMING OF THESE INSPECTIONS, PLEASE CONTACT PROCIVIL360, LLC (352) 593-4255, 24 HOURS IN ADVANCE OF THE INSPECTION.

FDEP / NPDES CONSTRUCTION NOTES:

1. PROPOSED SITE DEVELOPMENT OF CASH SMITH CLASS C SUBDIVISION
2. THE SITE SHALL BE PREPARED AS FOLLOWS:
   - 2.1. ERECTION OF SILT PREVENTION MEASURES
   - 2.2. CLEARING & GRUBBING
   - 2.3. EXCAVATION & UTILITY INSTALLATION
   - 2.4. ROUGH GRADING
   - 2.5. SUB-BASE & BASE PREPARATION, ASPHALT & CONCRETE CONSTRUCTION
   - 2.6. FINAL GRADING
   - 2.7. SODDING, SEEDING & MULCHING & FINAL PLANTING
3. SEE SITE NOTES, ON SITE PLAN FOR TOTAL SITE AREA.
4. THE SOILS WHICH EXIST ON THE SITE ARE "A" TYPE SOILS (CANDLER),ACCORDING TO THE UNITED STATES DEPARTMENT OF AGRICULTURE, SOILS CONSERVATION SERVICES.
5. THE CONTRACTOR SHALL ERECT ALL EROSION CONTROL MEASURES AS INDICATED ON THE DRAINAGE PLAN, OR OTHER PLANS WITHIN THE CONSTRUCTION PLAN, INCLUDING BUT NOT LIMITED TO SILT FENCE, HAY BALES AND TURBIDITY BARRIERS. ALL TURBIDITY BARRIERS SHALL BE MAINTAINED AND INSPECTED DURING CONSTRUCTION BY A "QUALIFIED INSPECTOR", UPON ESTABLISHMENT OF AT A MINIMUM OF 70% OF FINAL GROUND COVER ALL TURBIDITY BARRIERS SHALL BE PROPERLY REMOVED BY THE CONTRACTOR.
6. FINAL GROUND COVER PLACEMENT SHALL BEGIN PROMPTLY UPON COMPLETION OF FINAL GRADING, NO LATER THAN 7 DAYS AFTER COMPLETION OF FINAL GRADING TO MINIMIZE THE IMPACT OF OFFSITE RUNOFF. THAN 7 DAYS AFTER COMPLETION OF FINAL GRADING TO MINIMIZE THE IMPACT OF OFFSITE RUNOFF.
7. BASINS SHALL HAVE ALL DISTURBED AREAS DIVERTED TO DRAIN TO THEM, THE MINIMUM SIZE OF THIS SEDIMENT IN AREAS OF 10 ACRES OR GREATER, SEDIMENTATION BASINS ARE REQUIRED. THE SEDIMENTATION BASIN OR DETENTION BASIN SHALL BE 3,600 CUBIC FEET PER ACRE. THE CONTRACTOR SHALL DESIGN SUCH SEDIMENTATION BASINS AND CONTROLS BASED ON HIS CONSTRUCTION METHODS, OR SHALL RETAIN A REGISTERED ENGINEER AS NECESSARY TO COMPLETE THE DESIGN.
8. SHOULD FINAL RETENTION AREAS PROPOSED FOR USE AS FINAL DRAINAGE RETENTION AREAS, BE USED FOR TEMPORARY SEDIMENTATION BASINS, CARE SHALL BE GIVEN TO REMOVE ALL SEDIMENTATION PRIOR TO COMPLETION OF CONSTRUCTION.
9. CONSTRUCTION DEBRIS SHALL BE PROPERLY CONTROLLED TO LOCAL GOVERNMENT ORDINANCES AND LAWS, AND SILT NOR DEBRIS FROM CONSTRUCTION DEBRIS SHALL BE DISCHARGED FROM THE SITE.
10. ALL DISTURBED AREAS SHALL BE SPRINKLED AS NECESSARY TO MINIMIZE THE TRANSMISSION OF DUST, VIA WIND OR RAIN.
11. ALL FERTILIZERS, HERBICIDES AND PESTICIDES SHALL BE APPLIED PER MANUFACTURERS RECOMMENDATION, AND RUNOFF OF SUCH SHALL NOT DISCHARGE OFFSITE. SHOULD THESE DISCHARGES OCCUR, THEY SHALL BE REPORTED TO THE LOCAL GOVERNMENT AGENCY RESPONSIBLE FOR HAZARDOUS MATERIAL CLEAN UP.
12. THE SITE SHALL BE INSPECTED BY A QUALIFIED INSPECTOR AT LEAST ONCE EVERY SEVEN DAYS, OR WITHIN 24 HOURS AFTER 1/2" OF RAINFALL AT THESE LOCATIONS: STORAGE AREAS, DISCHARGE AREAS OF THE SITE, SURFACE WATER, DISTURBED AREAS, AREAS EQUIPMENT ENTERS AND EXITS THE SITE AND STRUCTURAL AREAS.
13. BASED ON THIS WEEKLY OR RAINFALL INSPECTION, REPAIRS TO ALL EROSION CONTROL AND GRADED AREAS SHALL OCCUR WITHIN 7 DAYS.
14. REPORTS SUMMARIZING THE INSPECTIONS AND WHOM THEY HAVE BEEN COMPLETED BY, ALONG WITH RECORDS OF THESE INSPECTIONS AND REPORTS SHALL BE KEPT ON-SITE AND SHALL INCLUDE RAINFALL DATA. THESE RECORDS UPON COMPLETION OF THE JOB SHALL BE MAINTAINED WITH JOB RECORDS.
15. ANY STORM WATER MAINTENANCE PLANS PREPARED BY OR FOR THE CONTRACTOR DURING CONSTRUCTION SHALL CLEARLY BE MARKED WITH THE CONTRACTOR AND SUBCONTRACTORS NAME AND ADDRESS.
16. THE CONTRACTOR SHALL SIGN A CERTIFICATION STATEMENT, BEFORE CONDUCTING ANY ACTIVITIES ON THE SITE, IN ACCORDANCE WITH SECTION 403.0885, FLORIDA STATUTES. THESE STATEMENTS ARE AVAILABLE AT PROCIVIL360 352-593-4255.

CSWMP PLAN SIGNATURE

CONTRACTOR

DATE:

PROCIVIL 360

CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL
SITE DEVELOPMENT / PLANNING & ZONING /
PERMITTING / CONSTRUCTION SERVICES

12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE: (352) 593-4255
WWW.PROCIVIL360.COM

DIGITAL/ELECTRONIC SIGNATURE NOTE:

LARRY G. BOONE, PE, STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 51955.
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY LARRY G. BOONE, PE ON THE DATE INDICATED HERE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

LARRY G. BOONE, PE, FL LIC. #51955

DRAWING NO. APPROVED

DATE

PROGRESS SET PSET

SCALE: AS SHOWN

DATE: 9/19/24

SHEET: 11

TMP: 21

IMAGE: 19

JOB NUMBER: 23070

SHEET NO.

8 OF 10

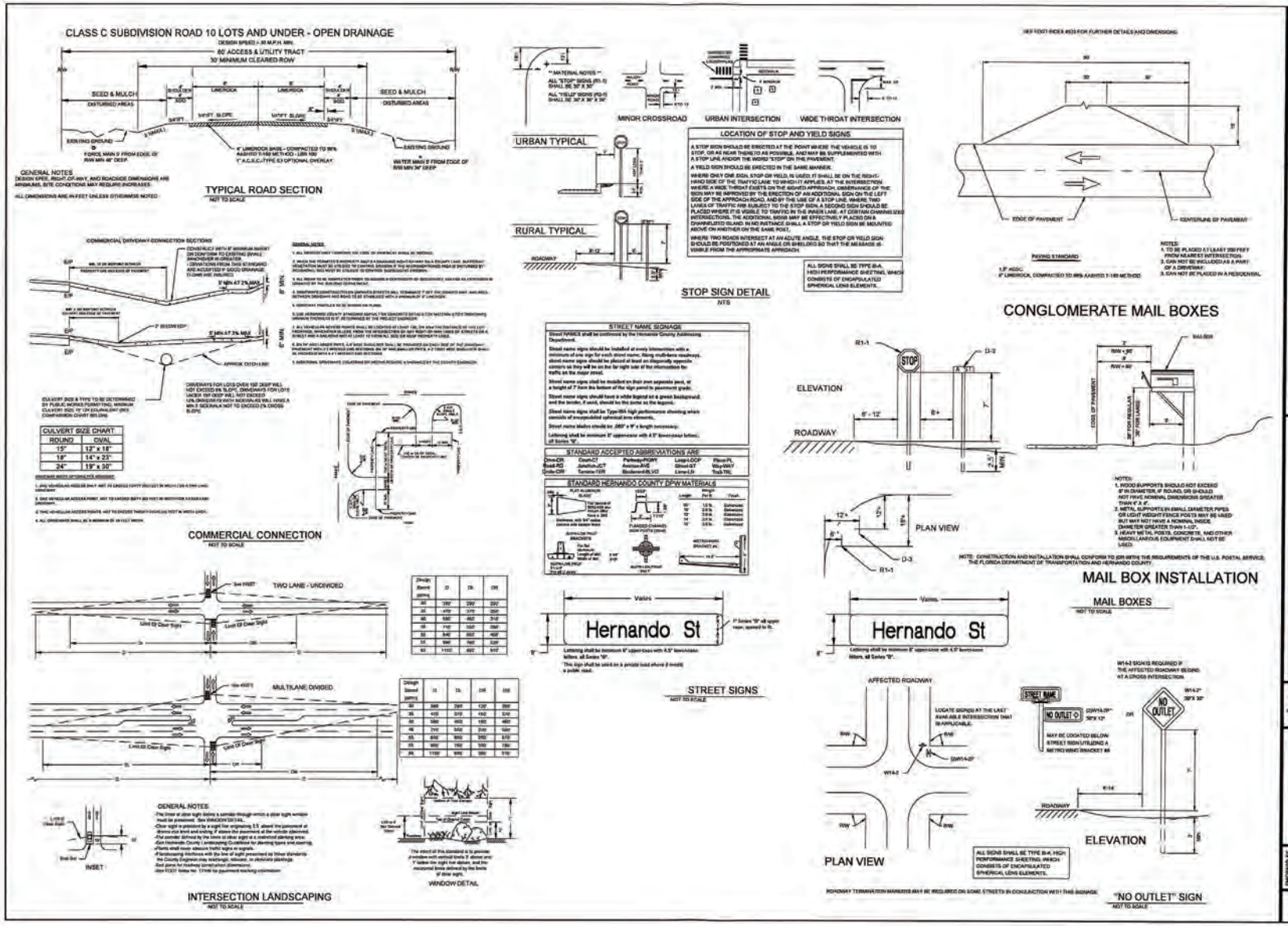
CLASS "C" SUBDIVISION
MR. CASH SMITH

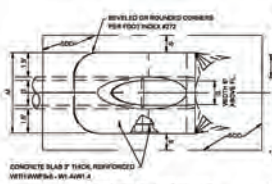
CSWMP PLAN

REV.	DESCRIPTION	REV. BY	DATE
TYPE	TYPE	TYPE	TYPE

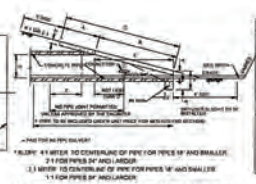
Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcPublish_5032\240155tbd.dwg

User Name: fdica


CLASS C SUBDIVISION ROAD 10 LOTS AND UNDER - OPEN DRAINAGE
DESIGN SPEED = 30 MPH MIN.
60' ACCESS & UTILITY TRACT
30' MINIMUM CLEARED ROW
SEED & MULCH DISTURBED AREAS
LIMEROCK
EXISTING GROUND
6" LIMEROCK BASE - COMPACTED TO 98% AASHTO T-180 METHOD - LBR 100
1" A.C.S.C. (TYPE S) II OPTIONAL OVERLAY
WATER MAIN 5' FROM EDGE OF R/W MIN 36" DEEP
FORCE MAIN 5' FROM EDGE OF R/W MIN 48" DEEP
GENERAL NOTES
DESIGN SPEED, RIGHT-OF-WAY, AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITIONS MAY REQUIRE INCREASES.
ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
TYPICAL ROAD SECTION
NOT TO SCALE
COMMERCIAL DRIVEWAY CONNECTION SECTIONS
EOP
EOP
EOP
EOP
APPROX. DITCH LINE
CULVERT SIZE & TYPE TO BE DETERMINED BY PUBLIC WORKS PERMITTING, MINIMUM CULVERT SIZE 15" OR EQUIVALENT (SEE CONVERSION CHART BELOW)
DRIVEWAYS FOR LOTS OVER 150' DEEP WILL NOT EXCEED 5% SLOPE. DRIVEWAYS FOR LOTS UNDER 150' DEEP WILL NOT EXCEED 12% GRADING IN WITH SIDEWALKS WILL HAVE A MIN 5' SIDEWALK NOT TO EXCEED 2% CROSS SLOPE.
CULVERT SIZE CHART
ROUND
OVAL
15"
12" x 18"
18"
14" x 23"
24"
19" x 30"
COMMERCIAL CONNECTION
NOT TO SCALE
TWO LANE - UNDIVIDED
MULTILANE DIVIDED
Limit Of Clear Sight
GENERAL NOTES
-The limits of clear sight lanes & corridor through which a clear sight window must be preserved. See WINDOW DETAIL.
-Clear sight is provided by a sight line originating 3.5' above the pavement at points one knot and ending 3' above the pavement at the vehicle observed.
-Turf consider defined by the limits of clear sight as a restricted planting area.
-Ask Hernando County Landscaping Guidelines for planting types and spacing.
-Plants shall never obscure traffic signs or signals.
-If landscaping interferes with the line of sight prescribed by these standards the County Engineer may restrict/age, relocate, or eliminate plantings.
-See plans for roadway construction dimensions.
-See FDOT Index No. 17346 for pavement marking information.
INSET
WINDOW DETAIL
INTERSECTION LANDSCAPING
NOT TO SCALE
** MATERIAL NOTES **
ALL "STOP" SIGNS (R1-1) SHALL BE 30" X 30"
ALL "YIELD" SIGNS (R2-1) SHALL BE 30" X 36" X 36"
MINOR CROSSROAD
URBAN INTERSECTION
WIDE THROAT INTERSECTION
URBAN TYPICAL
RURAL TYPICAL
ROADWAY
STOP SIGN DETAIL
NTS
LOCATION OF STOP AND YIELD SIGNS
A STOP SIGN SHOULD BE ERECTED AT THE POINT WHERE THE VEHICLE IS TO STOP, OR AS NEAR THERETO AS POSSIBLE, AND MAY BE SUPPLEMENTED WITH A STOP LINE AND/OR THE WORD "STOP" ON THE PAVEMENT.
A YIELD SIGN SHOULD BE ERECTED IN THE SAME MANNER.
WHERE ONLY ONE SIGN, STOP OR YIELD, IS USED, IT SHALL BE ON THE RIGHT-HAND SIDE OF THE TRAFFIC LANE TO WHICH IT APPLIES. AT THE INTERSECTION WHERE A WIDE THROAT EXISTS ON THE SIGNED APPROACH, OBSERVANCE OF THE SIGN MAY BE IMPROVED BY THE ERECTION OF AN ADDITIONAL SIGN ON THE LEFT SIDE OF THE APPROACH ROAD, AND BY THE USE OF A STOP LINE, WHERE TWO LANES OF TRAFFIC ARE SUBJECT TO THE STOP SIGN, A SECOND SIGN SHOULD BE PLACED WHERE IT IS VISIBLE TO TRAFFIC IN THE INNER LANE. AT CERTAIN CHANNELIZED INTERSECTIONS, THE ADDITIONAL SIGNS MAY BE EFFECTIVELY PLACED ON A CHANNELIZED ISLAND. IN NO INSTANCE SHALL A STOP OR YIELD SIGN BE MOUNTED ABOVE ON ANOTHER ON THE SAME POST.
WHERE TWO ROADS INTERSECT AT AN ACUTE ANGLE, THE STOP OR YIELD SIGN SHOULD BE POSITIONED AT AN ANGLE OR SHIELDED SO THAT THE MESSAGE IS VISIBLE FROM THE APPROPRIATE APPROACH.
ALL SIGNS SHALL BE TYPE B-A, HIGH PERFORMANCE SHEETING, WHICH CONSISTS OF ENCAPSULATED SPHERICAL LENS ELEMENTS.
SEE FDOT INDEX #533 FOR FURTHER DETAILS AND DIMENSIONS
EDGE OF PAVEMENT
CENTERLINE OF PAVEMENT
PAVING STANDARD
1.5" ASSC.
6" LIMEROCK, COMPACTED TO 98% AASHTO T-180 METHOD
NOTES:
1. TO BE PLACED AT LEAST 200 FEET FROM NEAREST INTERSECTION.
2. GAN NOT BE INCLUDED AS A PART OF A DRIVEWAY.
3. GAN NOT BE PLACED IN A RESIDENTIAL
CONGLOMERATE MAIL BOXES
STREET NAME SIGNAGE
Street NAMES shall be confirmed by the Hernando County Addressing Department.
Street name signs should be installed at every intersection with a minimum of one sign for each street name. Along multi-lane roadways, street name signs should be placed at least on diagonally opposite corners so they will be on the far right side of the intersection for traffic on the major street.
Street name signs shall be mounted on their own separate post, at a height of 7' from the bottom of the sign panel to pavement grade.
Street name signs should have a white legend on a green background and the border, if used, should be the same as the legend.
Street name signs shall be Type-BA high performance sheeting which consists of encapsulated spherical lens elements.
Street name blanks should be .080" x 9" x length necessary.
Lettering shall be minimum 5" uppercase with 4.5" lowercase (ellen). all Series "B".
STANDARD ACCEPTED ABBREVIATIONS ARE
STANDARD HERNANDO COUNTY DPW MATERIALS
Varies
Hernando St
Lettering shall be minimum 8" uppercase with 6.5" lowercase letters. all Series "D".
STREET SIGNS
NOT TO SCALE
ELEVATION
ROADWAY
PLAN VIEW
NOTE: CONSTRUCTION AND INSTALLATION SHALL CONFORM TO (OR MEET) THE REQUIREMENTS OF THE U.S. POSTAL SERVICE, THE FLORIDA DEPARTMENT OF TRANSPORTATION AND HERNANDO COUNTY.
MAIL BOX INSTALLATION
MAIL BOXES
NOT TO SCALE
NOTES:
1. WOOD SUPPORTS SHOULD NOT EXCEED 6" IN DIAMETER, IF ROUND, OR SHOULD NOT HAVE NOMINAL DIMENSIONS GREATER THAN 4" X 4".
2. METAL SUPPORTS (SMALL DIAMETER PIPES OR LIGHT WEIGHT FENCE POSTS MAY BE USED BUT MAY NOT HAVE A NOMINAL INSIDE DIAMETER GREATER THAN 1-1/2".
3. HEAVY METAL POSTS, CONCRETE, AND OTHER MISCELLANEOUS EQUIPMENT SHALL NOT BE USED.
AFFECTED ROADWAY
LOCATE SIGN(S) AT THE LAST AVAILABLE INTERSECTION THAT IS APPLICABLE.
W14-2
(SW13-2P)
R/W
STREET NAME
NO OUTLET
(SW13-2P) 30"X 12"
MAY BE LOCATED BELOW STREET SIGN UTILIZING A METRO WING BRACKET #8
OR
NO OUTLET
W14-2 30"X 30"
W14-2 SIGN IS REQUIRED IF THE AFFECTED ROADWAY IS LONG AT A CROSS INTERSECTION.
R/W
W14
ROADWAY
ELEVATION
PLAN VIEW
ALL SIGNS SHALL BE TYPE B-A, HIGH PERFORMANCE SHEETING, WHICH CONSISTS OF ENCAPSULATED SPHERICAL LENS ELEMENTS.
ROADWAY TERMINATION MARKERS MAY BE REQUIRED ON SOME STREETS IN CONJUNCTION WITH THIS SIGNAGE.
"NO OUTLET" SIGN
NOT TO SCALE
CLASS "C" SUBDIVISION
MR. CASH SMITH
SITE DETAILS
PROCIVIL 360
CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL
SITE DEVELOPMENT / PLANNING & ZONING /
PERMITTING / CONSTRUCTION SERVICES
12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE - (352) 593-4255
WWW.PROCIVIL360.COM
DESIGNED BY: FJD
DRAWN BY: ABS PLAN
CHECKED BY: FJD
DATE: 9/19/24
SCALE: NONE
JOB NUMBER: 24015
SHEET NO. 9 OF 10
User Name: fdica Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcePublish_5032\24015ste4.dwg

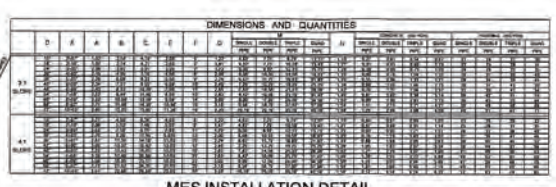


PLAN VIEW - SINGLE PIPE



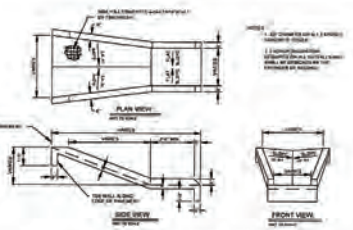
ELEVATION VIEW - SECTION THROUGH PIPE

NOTE: REFER TO FDOT INDEX #272 AND #273 FOR FURTHER DETAILS



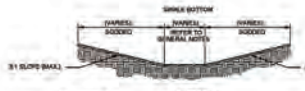
MES INSTALLATION DETAIL

NTS



FLUME DETAIL

NTS



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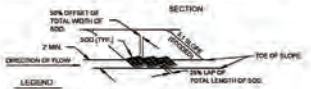


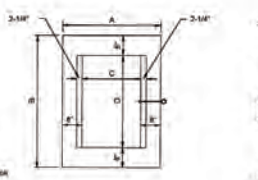
SOD LAPPING PLACEMENT

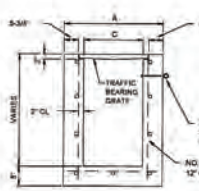
SWALE DETAIL

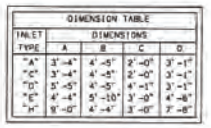
NTS

GENERAL NOTES

1. REFER TO FDOT STANDARD SPECIFICATION SECT. 570 FOR SODDING SPECIFICATIONS.
2. REFER TO FDOT STANDARD SPECIFICATION SECT. 575 FOR SEEDING AND MULCHING.
3. LESS THAN 5% SWALE FLOW LINE GRADES SHALL BE SEEDED & MULCHED.
4. 5% TO 9% SWALE FLOW LINE GRADES REQUIRES STRIP SODDING ACROSS SWALES EVERY 30' MAX.
5. 5% TO 9% SWALE GRADES REQUIRE SWALES TO BE FULLY SODDED. SOD SHALL BE OVER LAYED AT BOTTOM OF SWALES.
6. SWALE FLOWLINE GREATER THAN 9% SHALL HAVE SOD PEGGED IN PLACE.







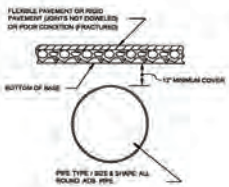
DIMENSION TABLE				
INLET TYPE	DIMENSIONS			
	A	B	C	D
"A"	3'-4"	4'-5"	2'-0"	3'-1"
"C"	3'-4"	4'-5"	2'-0"	3'-1"
"D"	5'-5"	4'-5"	4'-1"	3'-1"
"E"	4'-4"	5'-10"	3'-0"	4'-8"
"H"	9'-0"	4'-4"	3'-0"	7'-8"

LOCATED OUTSIDE VEHICULAR TRAFFIC PATTERN.
NOTE: FOR ADDITIONAL DETAILS, REFER TO FDOT INDEX #232

TYPICAL TYPE "C" INLET

NOTE: NON-TRAFFIC BEARING GRATES WILL BE ALLOWED WHEN

NTS



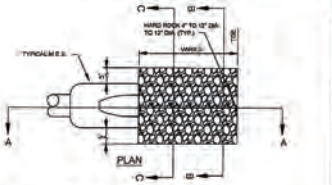
MINIMUM COVER FOR DRAINAGE PIPE

GENERAL NOTES

1. THE RECOMMENDED 6" MINIMUM DIMENSION IS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THE ONE LISTED ABOVE.
2. 6" MIN. COVER SHOWN IS STANDARD INSTALLATION. THE COUNTY ENGINEER MAY REQUIRE MORE COVER AND/OR BASE DEPENDING ON SITE CONDITIONS. (THESE FEATURES MAY INCLUDE, BUT ARE NOT LIMITED TO EXTRA STRENGTH PIPE, SELECT BEDDING, SELECT BACKFILL AND ENCASEMENT). REFERENCE F.D.O.T. INDEX 205

PIPE COVER DETAIL

NTS



NOTE:

1. RUBBLE RIP RAP 75% TO BE NO GREATER THAN 6" AND NO RUBBLE TO EXCEED 12".
2. COMPACT ALL AREAS AROUND ALL INSTALLATIONS TO DENSITY OF 100% STANDARD PROCTOR.
3. WOVEN GEOTEXTILE FABRIC TYPE D-3, IN ACCORDANCE WITH FDOT STD. INDEX 199

PLAN

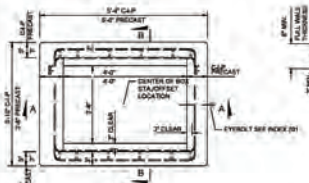
SECTION A-A

SECTION B-B

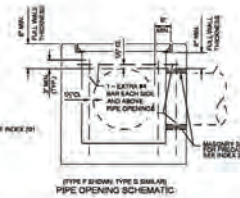
SECTION C-C

RIP RAP RUBBLE DETAIL

N.T.S.

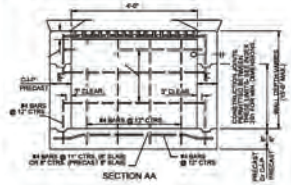


PLAN

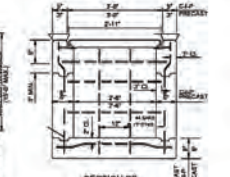


PIPE OPENING SCHEMATIC

(TYPE F SHOWN, TYPE S SIMILAR)



SECTION AA



SECTION BB

GENERAL NOTES

1. THESE INLETS ARE DESIGNED FOR USE IN SIDEWALKS, MEDIANS, PAVEMENT AREAS OR OTHER AREAS SUBJECT TO HEAVY VEHICULAR LOADS. MINIMAL DEBRIS, AND BICYCLE TRAFFIC. THIS INLET MAY BE PLACED IN AREAS SUBJECT TO OCCASIONAL PEDESTRIAN TRAFFIC SUCH AS LANDSCAPED AREAS AND PAVEMENT AREAS WHERE PEDESTRIANS CAN WALK AROUND THE INLET. WHEN INLET IS PLACED IN AREAS SUBJECT TO BICYCLE TRAFFIC, INSTALL FILLER BAR WHEN CLEARANCE OR GAP IS GREATER THAN 1" AS SHOWN IN INDEX 310 INSET B.
2. WHEN ALTERNATE G GRATE IS SPECIFIED IN PLANS, THE GRATE IS TO BE HOT DIP GALVANIZED AFTER FABRICATION.
3. THESE INLETS MAY BE USED WITH ALTERNATE B STRUCTURE BOTTOMS, INDEX 200. THE INLET AND BOTTOM COMBINATIONS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR INLETS, DT BOT, (TYPE F (OR G)) LI BOT, DEPTH, EA.
4. ALL EXPOSED EDGES AND CORNERS SHALL BE ¾" CHAMFER OR TOOLED 1/2.0" RADIUS.
5. FOR SUPPLEMENTAL DETAILS, SEE INDEX 201.
6. ALL REINFORCING IS GRADE 60 BARS WITH 2" MIN. COVER UNLESS OTHERWISE NOTED. PLACE TOP LONGITUDINAL BAR 1" FROM TOP OF CURB OPENING. PROVIDE ONE ADDITIONAL #4 BAR ABOVE AND AT EACH SIDE OF ANY OPENING, AS SHOWN.
7. ALL DIMENSIONS ARE FOR BOTH PRECAST AND CAST-IN-PLACE INLETS UNLESS OTHERWISE NOTED.

HORIZONTAL WALL REINF. SCHEDULES

TYPE F INLET (TABLE 1)

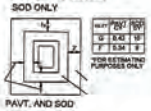
CURB HEIGHT "H"	SCHEDULE	AREA SQ. IN./FT.	MAX. SPACING BARS	MAX. SPACING WIRE
0'-6"	A13	0.20	12"	6"
4'-7"	A6	0.33	6"	3"
7'-12	B6.5	0.24	12"	6"
12'-15'	SPECIAL 1	0.267	9"	4"

RECOMMENDED MAXIMUM PIPE SIZES	
INLET INSIDE WIDTH	PIPE SIZE
2'-6" (TYPE F)	18"
4'-0" (TYPE F)	30"
4'-10" / 5'-0" (TYPE G)	42"

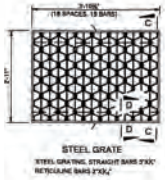
Note: RECOMMENDED SIZES ARE FOR CONCRETE PIPE. SIZES FOR OTHER TYPES OF PIPE MUST BE VERIFIED FOR FIT IN ACCORDANCE WITH INDEX NO. 201. FOR LARGER PIPE SIZES SEE NOTE 5.

TYPICAL TYPE "F" INLET

SOD ONLY



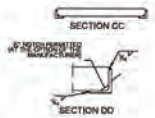
PAVT. AND SOD



STEEL GRATE

STEEL GRATING, STRAIGHT BARS 3"X⅜" RECTILINE BARS 3"X⅜"

TYPE F



SECTION CC

SECTION DD

PAVEMENT AND SODDING

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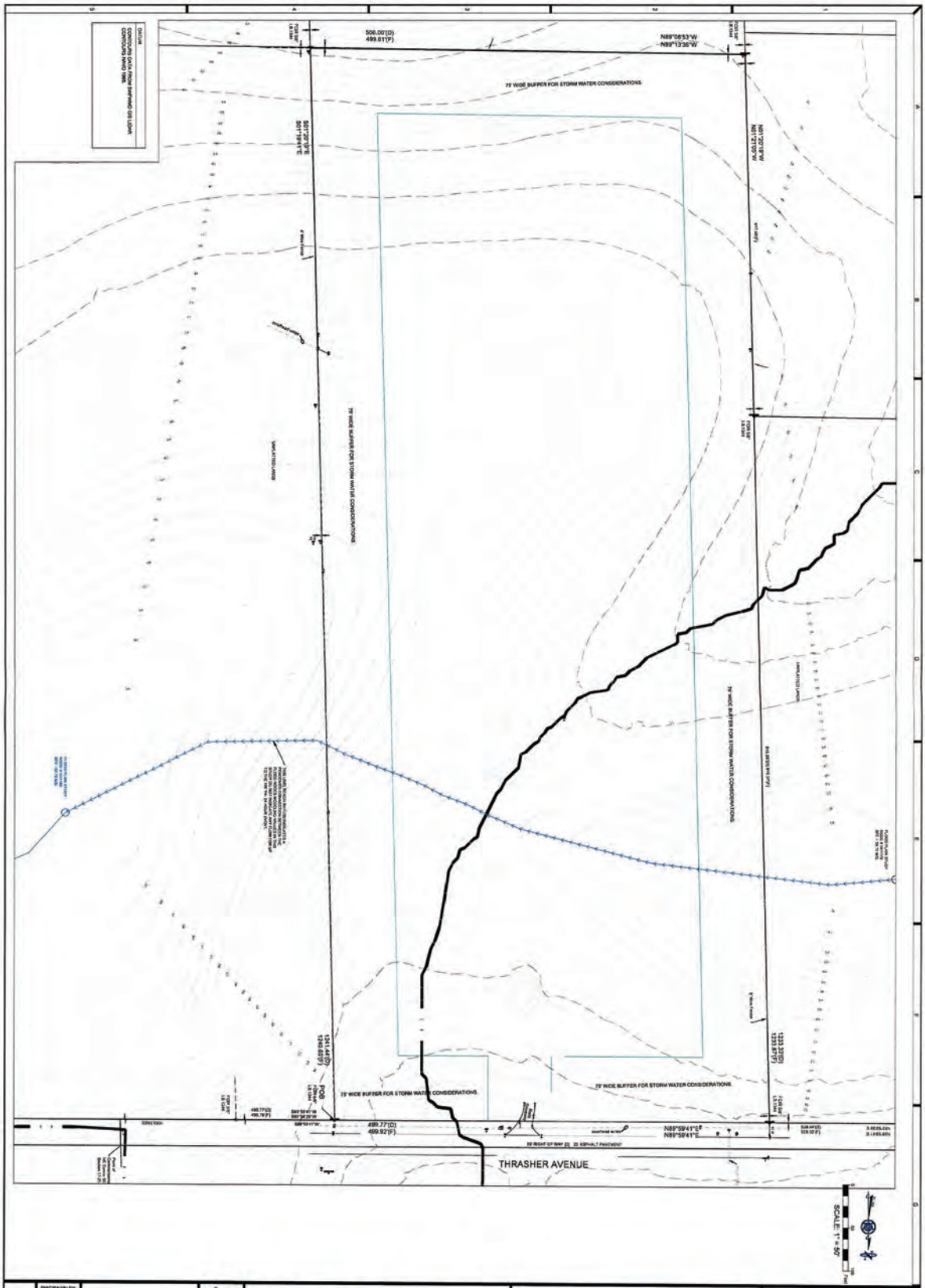
CLASS "C" SUBDIVISION
MR. CASH SMITH

DRAINAGE DETAILS

DIGITAL/ELECTRONIC SIGNATURE NOTE:

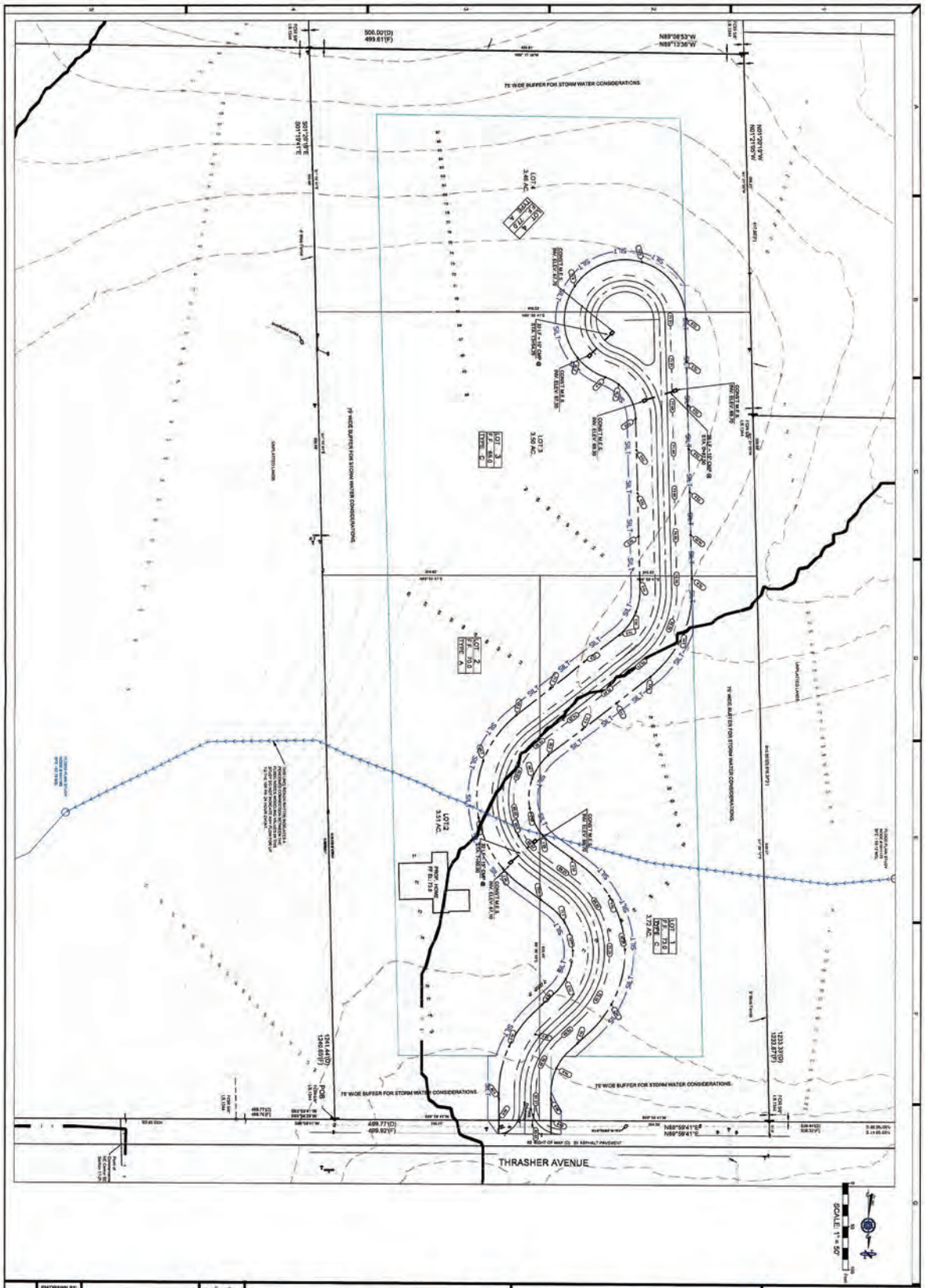
DRAWN BY: JMD
CHECKED BY: JMD
SCALE: AS NOTED
DATE: 9/2024
PROJ. #: 22
TYP.: 21
NAME: 18
JOB NUMBER: 24035
SHEET NO.: 10 OF 10

User Name: fdica Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcPublish_5032\2024015ste4.dwg



10A OF 10 SHEET(S)	PM/DRAWN BY: FAD SCALE: SEE PLAN DATE: 9/19/24 SEC: 17 TWP: 21 RANGE: 18 JOB NUMBER: 24015	LARRY G. BOONE FL PE 49472 EXAMINED AND APPROVED DATE	PROCIVIL 360 CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES 12 SOUTH MAIN STREET, BROOKSVILLE, FL, 34601 PHONE - (352) 593-4255 WWW.PROCIVIL360.COM	CLASS "C" SUBDIVISION MR. CASH SMITH PRE BASIN PLAN

User Name: fdica Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcPublish_5032\24015ste4.dwg



10B OF 10 SHEET NO.	PM/DRAWN BY: FAD SCALE: SEE PLAN DATE: 9/18/24 SEC.: 17 TWP.: 21 RANGE: 18 JOB NUMBER: 24015	LARRY G. BOONE FL PE 45478 EXAMINED AND APPROVED DATE:	PROCIVIL 360 CIVIL ENGINEERING/RESIDENTIAL & COMMERCIAL SITE DEVELOPMENT / PLANNING & ZONING / PERMITTING / CONSTRUCTION SERVICES 12 SOUTH MAIN STREET, BROOKSVILLE, FL. 34601 PHONE - (352) 593-4255 WWW.PROCIVIL360.COM	CLASS "C" SUBDIVISION MR. CASH SMITH POST BASIN PLAN

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DESCRIPTION	REV. BY	DATE

User Name: fdica Plot Date: Nov 26, 2024 - 11:28am Drawing Name: C:\Users\fdica\AppData\Local\Temp\AcPublish_5032\24015ste4.dwg