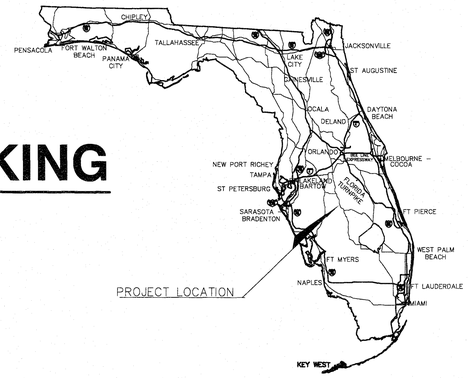
CONSTRUCTION PLANS FOR:

HCSO DETENTION FACILITY EMPLOYEE PARKING

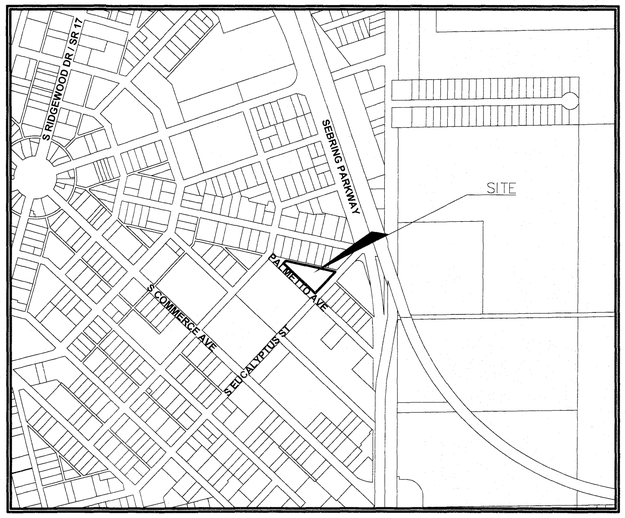
HIGHLANDS COUNTY

CITY OF SEBRING, FLORIDA

WOOD PROJECT NUMBER: 600379.2



INDEX OF DRAWINGS



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0 500' 1000'
GRAPHIC SCALE (FT)

SITE LOCATION MAP
HIGHLANDS COUNTY, FLORIDA
SECTION 29, TOWNSHIP 34 SOUTH, RANGE 29 EAST

GOVERNING SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, AND FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

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

CONTRACTOR IS TO VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

NOTE:
CONSTRUCTION PLANS ARE AVAILABLE IN AUTODESK CIVIL 3D FORMAT ONLY. ANY FILE CONVERSIONS WILL BE AT THE CONTRACTOR'S EXPENSE.

Rev	Date	Description	Sheets

REVISIONS

wood.
ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
2000 E Edgewood Drive, Suite 215
Lakeland, FL 33803
Phone: 1.863.667.2345
Fax: 1.863.667.2662
www.woodplc.com
CA-5392

MARK J. FREDERICK LICENSE No. 70671 STATE OF FLORIDA

12/4/2018

MARK J. FREDERICK, PE
FLORIDA PE LICENSE NO. 70671

PROJECT:

HCSO DETENTION FACILITY EMPLOYEE PARKING

SEBRING, FLORIDA

HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE
SEBRING, FL 33870

WOOD PROJECT NO:
600379.2

REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

COVER

SHEET NUMBER:	REV. #
G-001	0
SHEET 1 OF 9 SHEETS	

GENERAL CONSTRUCTION NOTES

1. *LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.*
2. *THE CONTRACTOR SHALL CHECK PLANS AND FIELD CONDITIONS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICT BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.*
3. *IF, DURING THE PERFORMANCE OF THE WORK, THE CONTRACTOR DISCOVERS ANY CONFLICT, ERROR, AMBIGUITY, OR DISCREPANCY BETWEEN THE PLANS AND ANY PROVISION OF ANY SUCH LAW OR REGULATION APPLICABLE TO THE PERFORMANCE OF THE WORK OR OF ANY SUCH STANDARD, SPECIFICATION, MANUAL, OR CODE OR OF ANY INSTRUCTION OF ANY SUPPLIER, THE CONTRACTOR SHALL REPORT IT TO THE ENGINEER IN WRITING AT ONCE.*
4. *CONTRACTOR SHALL ADHERE TO THE LATEST REVISIONS AND/OR LATEST EDITION OF STANDARDS, SPECIFICATIONS, MANUALS, OR CODES OF ANY TECHNICAL SOCIETY, ORGANIZATION OR ASSOCIATION, OR TO THE LAWS OR REGULATIONS OF ANY GOVERNMENTAL AUTHORITY INCLUDING: FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP); FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD), HIGHLANDS COUNTY, AND CITY OF SEBRING.*
5. *IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND LICENSES WHICH ARE APPLICABLE AND NECESSARY FOR THE EXECUTION OF THE WORK PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTION.*
6. *THE CONTRACTOR SHALL KEEP AT THE SITE AND IN GOOD ORDER, ONE RECORD COPY OF ALL DRAWINGS AND SPECIFICATIONS. THESE DOCUMENTS SHALL BE ANNOTATED ON A CONTINUING BASIS TO SHOW ALL CHANGES MADE DURING THE CONSTRUCTION PROCESS AND AVAILABLE TO THE ENGINEER UPON REQUEST.*
7. *AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. THE CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S ENGINEER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO BE USED ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. ENGINEER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.*
8. *WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT WILL BE NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.*
9. *THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR. REPAIR AND REPLACEMENT OF ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS BEFORE COMMENCING CONSTRUCTION WORK UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.*
10. *RECORD DRAWINGS:*
    THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING INFORMATION ON A SET OF THE APPROVED PLANS CONCURRENTLY WITH CONSTRUCTION PROGRESS. WITHIN TWO WEEKS FOLLOWING FINAL INSPECTION THE CONTRACTOR SHALL SUBMIT FIVE SETS OF RECORD DRAWINGS TO THE ENGINEER OF RECORD. THE FINAL RECORD DRAWINGS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS:
    - *A. DRAWINGS TO BE LEGIBLY MARKED TO RECORD ACTUAL CONSTRUCTION.*
    - *B. DRAWINGS SHALL SHOW ACTUAL LOCATION OF ALL UTILITIES, AND RELATED APPURTENANCES, BOTH ABOVE AND BELOW GROUND. ALL CHANGES TO PIPING LOCATION INCLUDING HORIZONTAL & VERTICAL LOCATIONS OF UTILITIES & APPURTENANCES SHALL BE CLEARLY SHOWN AND REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. DRAWINGS SHALL ALSO SHOW ACTUAL INSTALLED PIPE MATERIAL, ETC.*
    - *C. DRAWINGS SHALL CLEARLY SHOW ALL FIELD CHANGES OF DIMENSION AND DETAIL INCLUDING CHANGES MADE BY FIELD ORDER OR BY CHANGE ORDER. DRAWINGS SHALL CLEARLY SHOW LOCATIONS, DIMENSIONS, AND ELEVATIONS OF ALL DISCHARGE STRUCTURES, INCLUDING WEIRS AND ORIFICES. DRAWINGS SHALL CLEARLY INDICATE THE SIZE IN ACRES, SIDE SLOPES, DIMENSIONS, ELEVATIONS, ETC. OF ALL DETENTION/RETENTION AREAS. DRAWINGS SHALL CLEARLY SHOW FINAL GRADE INFORMATION INCLUDING DIMENSIONS, ELEVATIONS, CONTOURS, ETC. DRAWINGS SHALL CLEARLY SHOW THE LOCATION AND DESCRIPTION OF ALL SURVEY BENCHMARKS.*
    - *D. DRAWINGS SHALL CLEARLY SHOW ALL DETAILS NOT ON ORIGINAL CONTRACT DRAWINGS BUT CONSTRUCTED IN THE FIELD. ALL EQUIPMENT AND PIPING RELOCATION SHALL BE CLEARLY SHOWN.*
    - *E. LOCATIONS OF ALL MANHOLES, HYDRANTS, VALVES, & VALVE BOXES SHALL BE SHOWN.*
    - *F. THE CONTRACTOR SHALL PROVIDE CERTIFIED RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR.*
11. *THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, OR THE SAFETY PRECAUTIONS AND PROGRAMS USED. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO PERFORM THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.*
12. *THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, ANY SUBCONTRACTORS, ANY AGENTS, EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK.*

SAFETY NOTES

1. *DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE SAFETY REGULATIONS. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE TRAVELING PUBLIC AND THE SAFETY OF ITS PERSONNEL. LABOR SAFETY REGULATIONS SHALL BE AS SET FORTH BY THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) IN THE FEDERAL REGISTER OF THE DEPARTMENT OF LABOR.*
2. *THE MINIMUM STANDARDS AS SET FORTH IN THE CURRENT EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SHALL BE FOLLOWED IN THE DESIGN APPLICATION, INSTALLATION, MAINTENANCE, AND REMOVAL OF ALL TRAFFIC CONTROL DEVICES, WARNING DEVICES, AND BARRIERS NECESSARY TO PROTECT THE PUBLIC AND WORKS FROM HAZARDS WITHIN THE PROJECT LIMITS.*
3. *IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH AND ENFORCE ALL APPLICABLE SAFETY REGULATIONS. THE ABOVE INFORMATION HAS BEEN PROVIDED FOR THE CONTRACTOR'S INFORMATION ONLY AND DOES NOT IMPLY THAT THE OWNER OR ENGINEER WILL INSPECT AND/OR ENFORCE SAFETY REGULATIONS.*

SURVEY NOTES

1. *ALL EXISTING SURVEY MONUMENTS, GPS MONUMENTS OR PUBLIC LAND CORNERS SHALL BE PROTECTED. IF A CORNER OR MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR'S CONSTRUCTION MANAGER SHALL NOTIFY THE COUNTY SURVEYOR WITHOUT DELAY BY TELEPHONE.*
2. *THE EXISTING TOPOGRAPHIC INFORMATION DEPICTED WITHIN THIS SET OF CONSTRUCTION DRAWINGS IS PER THE "MAP OF BOUNDARY & TOPOGRAPHIC SURVEY FOR HIGHLANDS COUNTY SHERIFF'S OFFICE EMPLOYEE PARKING LOT" DATED 6-11-2018, BY WOOD ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.*
3. *ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) BASED ON THE ABOVE DESCRIBED CONTROL POINTS.*

CLEARING AND EROSION CONTROL NOTES

1. *PRIOR TO ANY SITE CLEARING, ALL TREES SHOWN TO REMAIN ON THE CONSTRUCTION PLANS SHALL BE PROTECTED IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY'S TREE ORDINANCE AND DETAILS CONTAINED IN THESE PLANS. FLORIDA NATIVE TREES OF 4 INCH CALIPER OR GREATER TRUNK DIAMETER SHALL BE SAVED WHEREVER THEY WILL NOT CONSTITUTE A SAFETY HAZARD AND SHALL NOT BE DEFACED BY CONSTRUCTION ACTIVITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THESE TREES IN GOOD CONDITION. NO TREES SHOWN TO REMAIN SHALL BE REMOVED WITHOUT WRITTEN APPROVAL FROM THE OWNER. ONLY "GRADING BY HAND" IS PERMITTED WITHIN THE CANOPY LINE OF TREES THAT ARE TO REMAIN.*
2. *THE CONTRACTOR IS TO PREPARE THE SITE PRIOR TO BEGINNING ACTUAL CONSTRUCTION IN ACCORDANCE WITH THE SOILS TESTING REPORT, AS APPLICABLE. QUESTIONS REGARDING SITE PREPARATION REQUIREMENTS DESCRIBED IN THE SOILS REPORT ARE TO BE DIRECTED TO THE SOILS TESTING COMPANY.*
3. *CONTRACTOR SHALL CLEAR AND GRUB ONLY THOSE PORTIONS OF THE SITE NECESSARY FOR CONSTRUCTION. DISTURBED AREAS SHALL BE SEEDED, MULCHED, OR PLANTED WITH OTHER APPROVED LANDSCAPE MATERIAL AS SOON AS GRADING IS COMPLETED AND/OR IS PRACTICABLE. AREAS ANTICIPATED BEING LEFT DISTURBED OR DENUDED FOR LONGER THAN 21 DAYS SHALL BE STABILIZED WITH TEMPORARY STABILIZATION WITHIN 14 DAYS OF DISTURBANCE. NO AREAS SHALL BE LEFT DISTURBED OR DENUDED FOR LONGER THAN 21 DAYS.*
4. *THE TOP 4" TO 6" OF GROUND REMOVED DURING CLEARING AND GRUBBING SHALL BE STOCKPILED AT A SITE DESIGNATED BY THE OWNER TO BE USED FOR LANDSCAPING PURPOSES, UNLESS OTHERWISE DIRECTED BY THE OWNER. SYNTHETIC BALES OR SILT FENCE SHALL BE PLACED ALONG THE STOCKPILE PERIMETER FOR EROSION CONTROL.*
5. *ALL CONSTRUCTION DEBRIS AND OTHER WASTE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH APPLICABLE REGULATIONS.*
6. *THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR REMOVING ANY EXISTING STRUCTURES.*
7. *THE CONTRACTOR SHALL OBTAIN SITE CLEARING & TREE REMOVAL PERMIT PRIOR TO INSTALLATION OF ANY UNDERGROUND UTILITIES AND CLEARING THE SITE, IF APPLICABLE.*
8. *DURING CONSTRUCTION, ALL STORM SEWER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED SYNTHETIC BALES, SOD, STONE, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED AS REQUIRED BY CONSTRUCTION PROGRESS.*
9. *ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED ARE TO BE SEEDED, MULCHED AND WATERED TO FDOT STANDARDS AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND PASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE BY THE REGULATORY AGENCY AND THE ENGINEER.*
10. *THE CONTRACTOR IS TO PROVIDE EROSION CONTROL/SEDIMENTATION BARRIER (SYNTHETIC BALE, TURBIDITY BARRIER OR STAKED SILT FENCE) TO PREVENT SILTATION OF ADJACENT PROPERTY, STREETS, STORM SEWERS, WATERWAYS, AND EXISTING WETLANDS. IN ADDITION, THE CONTRACTOR SHALL PLACE STRAW, MULCH, OR OTHER SUITABLE MATERIAL ON GROUND IN AREAS WHERE CONSTRUCTION RELATED TRAFFIC IS TO ENTER AND EXIT THE SITE. IF, IN THE OPINION OF THE ENGINEER AND/OR LOCAL AUTHORITIES, EXCESSIVE QUANTITIES OF EARTH ARE TRANSPORTED OFF-SITE EITHER BY NATURAL DRAINAGE OR BY VEHICULAR TRAFFIC, THE CONTRACTOR IS TO RECOVER SAID EARTH TO THE SATISFACTION OF THE ENGINEER AND/OR AUTHORITIES.*
11. *IF WIND EROSION BECOMES SIGNIFICANT DURING CONSTRUCTION, THE CONTRACTOR SHALL STABILIZE THE AFFECTED AREA USING SPRINKLING, IRRIGATION, OR OTHER ACCEPTABLE METHODS.*
12. *THERE SHALL BE NO DISCHARGE (I.E. PUMPING, SHEET FLOW, SWALE, DITCH, ETC.) INTO AN EXISTING LAKE SYSTEM, WETLAND, OR CANAL, WITHOUT THE USE OF SETTLING PONDS. IF THE CONTRACTOR DESIRES TO DISCHARGE INTO THE EXISTING LAKE SYSTEM OR CANAL, A SETTLING POND PLAN MUST BE SUBMITTED AND APPROVED BY THE ENGINEER AND LOCAL REGULATORY AGENCY PRIOR TO CONSTRUCTION. REFER TO THE STORMWATER POLLUTION PLAN FOR POSSIBLE TURBIDITY CONTROL OPTIONS FOR DEWATERING OF THE SITE, IF APPLICABLE.*
13. *A 1' MINIMUM STRIP OF SOD SHALL BE PLACED DIRECTLY ADJACENT TO ALL SIDEWALK, CURB, AND OTHER PAVED AREAS. ALL OTHER GRASSED AREAS CAN BE SEEDED.*

UTILITY NOTES

1. *CHAPTER 77-153 OF THE FLORIDA STATUTES REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITIES A MINIMUM OF TWO WORKING DAYS PRIOR TO EXCAVATING. MAPS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS AND DO NOT SHOW ALL SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY THE RESPECTIVE GAS PERSONNEL. THEREFORE, EXCAVATORS ARE INSTRUCTED TO TELEPHONE THE RESPECTIVE GAS COMPANY TWO WORKING DAYS BEFORE ENTERING A CONSTRUCTION AREA.*
2. *ALL UNDERGROUND UTILITIES MUST BE IN PLACE, TESTED AND INSPECTED AS REQUIRED PRIOR TO BASE AND SURFACE CONSTRUCTION.*
3. *THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES IN ADVANCE OF CONSTRUCTION, BY CALLING FLORIDA SUNSHINE STATE ONE CALL CENTER OF FLORIDA, INC. AT 1-800 432-4770. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "SUNSHINE" FORTY-EIGHT (48) HOURS PRIOR TO ANY CLEARING OF CONSTRUCTION TO IDENTIFY ALL UTILITY LOCATIONS.*
4. *IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL UTILITY COMPANIES TO DISCONNECT OR REMOVE THEIR FACILITIES PRIOR TO REMOVING OR DEMOLISHING ANY EXISTING STRUCTURES FROM THE SITE. ALL UTILITIES INCLUDING, BUT NOT NECESSARILY LIMITED TO, THE FOLLOWING SHOULD BE CONTACTED BY THE CONTRACTOR:*

STORM, WATER, AND SEWER:
CITY OF SEBRING
GARVIN ELKHIL
422 PARK STREET
SEBRING, FL 33870
PHONE: 863.471.5113

CITY OF SEBRING
JIM JACKSON
454 N. FRANKLIN
SEBRING, FL 33870
PHONE: 863.471.5156

CABLE/COMMUNICATIONS:
COMCAST CABLEVISION
GONZALO ROJAS
3490 TECHNOLOGY DRIVE
VENICE, FL 34275
PHONE: 941.342.3578

HIGHLANDS COUNTY BOCC
RAMON GAVARRETTE
505 S. COMMERCE AVENUE
SEBRING, FL 33870
PHONE: 863.402.6877

MCI
DEAN BOYERS
400 INTERNATIONAL PARKWAY
RICHARDSON, TX 75081
PHONE: 469.886.4238

CENTURYLINK
JAMES JACKSON
924 MEMORIAL DRIVE
AVON PARK, FL 33825
PHONE: 863.452.3132

ELECTRIC (DISTRIBUTION):
DUKE ENERGY
SHARON DEAR
2001 OLD SCENIC HIGHWAY
LAKE WALES, FL 33853
PHONE: 407.850.2762

ELECTRIC (TRANSMISSION):
DUKE ENERGY
JENNY WILLIAMS
20525 AMBERFIELD DRIVE, SUITE 201
LAND O'LAKES, FL 34638
PHONE: 813.909.1210

GAS:
SEBRING GAS SYSTEMS, INC.
CAMERON MENZIE
3515 US HIGHWAY 27 S
SEBRING, FL 33870
PHONE: 863.385.0194

TRAFFIC:
HIGHLANDS COUNTY TRAFFIC
EDWARD CARDONA
505 S COMMERCE AVENUE
SEBRING, FL 33870
PHONE: 863.402.6536, EXT. 6536

PAVING, GRADING, AND DRAINAGE NOTES

1. *ALL DELETERIOUS MATERIAL (I.E., MUCK, PEAT, BURIED DEBRIS) IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.*
2. *THE CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.*
3. *THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING APPLICABLE TESTING WITH THE SOILS ENGINEER. TESTS WILL BE REQUIRED PURSUANT TO THE TESTING SCHEDULE REQUIRED BY APPLICABLE REGULATORY AGENCIES AND AS MAY BE FOUND IN THE ENGINEERING CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL TESTING WITH THE OWNER PRIOR TO COMMENCING CONSTRUCTION. UPON COMPLETION OF THE WORK, THE SOILS ENGINEER MUST SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER'S ENGINEER.*
4. *SOILS ENGINEER SHALL SUPPLY THE DESIGN ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, ASPHALT RESULTS, AND CONCRETE RESULTS. THE SOILS ENGINEER IS TO CERTIFY TO THE DESIGN ENGINEER IN WRITING THAT ALL TESTING REQUIREMENTS REQUIRED BY THE LOCAL REGULATORY AGENCY AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) FOR THE IMPROVEMENTS, AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS FOR THE PROPOSED WORK, HAVE BEEN SATISFIED.*
5. *THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND SHALL PROVIDE BRACING, SHEETING, OR SHORING AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED AND PERMITTED THROUGH LOCAL GOVERNMENTAL AND WATER MANAGEMENT DISTRICTS PER CURRENT REGULATIONS.*
6. *BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AND COMPACTED TO A FIRMNESS EQUAL TO THAT OF THE SOIL ADJACENT TO THE TRENCH AROUND PIPES IN 6" LAYERS UP TO AN UNDISTURBED LEVEL BE AT LEAST 1' ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.*
7. *CLASS "B" TYPE I BEDDING SHALL BE USED UNLESS INDICATED OTHERWISE ON THE DRAWINGS, OR BY THE ENGINEER.*
8. *PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON THE DRAWINGS.*
9. *REFER TO THE LATEST EDITION OF FDOT "ROADWAY AND TRAFFIC DESIGN STANDARDS" FOR DETAILS AND SPECIFICATIONS OF ALL FDOT TYPE CURBING AND GUTTERS CALLED FOR ON THESE PLANS.*
10. *PRIOR TO CONSTRUCTION OF CONCRETE PAVEMENT, THE CONTRACTOR SHALL SUBMIT A PROPOSED JOINTING PATTERN TO THE OWNER'S ENGINEER FOR REVIEW.*
11. *CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.*
12. *SIDEWALK CONSTRUCTION SHALL BE FLUSH WITH PAVEMENT WHERE THEY ARE ADJACENT OR MEET, UNLESS OTHERWISE SHOWN.*
13. *THE CONTRACTOR/SUBCONTRACTOR SHALL PLACE A 1' DEEP CONTRACTION JOINT EVERY 10' IN THE PROPOSED SIDEWALK.*
14. *THE CONTRACTOR SHALL PROVIDE A 1/2" BITUMINOUS EXPANSION JOINT MATERIAL WITH SEALER AT ABUTMENT OF CONCRETE AND ANY STRUCTURE.*
15. *CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED, SPECIFIED OR REQUIRED.*
16. *REINFORCING SHALL BE BILLET STEEL BARS CONFORMING TO ASTM A615 GRADE 40 OR BETTER.*
17. *ALL PAVEMENT MARKING SHALL BE MADE WITH PERMANENT THERMOPLASTIC AND SHALL CONFORM TO FDOT STANDARD INDEX NO. 17346, SHEETS 1-7. PARKING STALL STRIPING TO BE 4" WIDE PAINTED STRIPES. ON-SITE STRIPE COLOR SHALL BE WHITE EXCEPT AS SHOWN ON THE ENGINEERING PLANS. PARKING STALL STRIPING SHALL BE COMPATIBLE WITH THE PAVEMENT TYPE (i.e. CONCRETE, ASPHALT) AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL.*
18. *ALL STORMWATER PIPE NOTED ON THE PLANS AS RCP SHALL BE REINFORCED CONCRETE PIPE, CLASS III, WITH RUBBER GASKET JOINTS.*
19. *CONTRACTOR SHALL INSTALL STORM PIPING AND CULVERTS IN ACCORDANCE WITH FDOT INDEX 205 AND PLACE EXTRA BASE MATERIAL WHEN THE DISTANCE BETWEEN THE PAVEMENT ELEVATION AND THE TOP OF THE PIPE OR BELL IS LESS THAN TWELVE INCHES.*

MAINTENANCE OF TRAFFIC NOTES

1. *MAINTENANCE OF TRAFFIC FOR WORK WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) DESIGN STANDARDS. THE MOT PLAN MUST COMPLY WITH FDOT STANDARD INDEX 600 SERIES.*
2. *LANE CLOSURES ALLOWED BETWEEN 9 AM AND 4 PM ONLY. THE OWNER AND THE ENGINEER RESERVE THE RIGHT TO REQUIRE DIFFERENT HOURS, INCLUDING NIGHT WORK.*
3. *WORK WITHIN THE RIGHT-OF-WAY SHALL NOT EXCEED ONE DAYLIGHT PERIOD. AT THE END OF EACH DAY (NO LATER THAN 4 PM), THE RIGHT-OF-WAY (INCLUDING ALL TRAVEL LANES) SHALL BE RESTORED FOR SAFE VEHICULAR TRAFFIC. NO DROP-OFF CONDITIONS ARE ALLOWED TO REMAIN. NO MATERIALS, EQUIPMENT, ETC. SHALL BE STORED WITHIN THE RIGHT-OF-WAY WHILE THE WORK ZONE IS INACTIVE.*
4. *SHOULD CONDITIONS REQUIRE LANE CLOSURES FOR MORE THAN ONE DAYLIGHT PERIOD, THE CONTRACTOR SHALL SUBMIT, IN WRITING, DETAILED JUSTIFICATION FOR THE EXTENDED LANE CLOSURE. IN ADDITION, A DETAILED MAINTENANCE OF TRAFFIC PLAN IN ACCORDANCE WITH FDOT STANDARD DRAWINGS WILL BE REQUIRED. PRIOR APPROVAL FROM THE ENGINEER AND THE OWNER WILL BE REQUIRED FOR ANY EXTENDED LANE CLOSURES.*
5. *THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE WORK ZONE TRAFFIC CONTROL SUPERVISOR PRIOR TO THE START OF ANY WORK WITHIN THE RIGHT-OF-WAY. PROVIDE A COPY OF THE WORKSITE TRAFFIC SUPERVISOR'S (WTS) CERTIFICATE OF QUALIFICATION FOR HAVING COMPLETED AN FDOT APPROVED COURSE IN ADVANCED MAINTENANCE OF TRAFFIC.*
6. *CONTRACTOR TO PROVIDE FOR MAINTENANCE OF TRAFFIC PLAN TO MAINTAIN ACCESS TO ALL PROPERTIES WITHIN THE PROJECT WORK AREA. TEMPORARY ACCESS MAY BE PROVIDED BY STABILIZED DRIVEWAY AND ACCESS LANES AS APPROVED BY THE OWNER AND ENGINEER.*

NOTE:
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EXISTING
EXISTING INFORMATION WILL BE DEPICTED IN THIS TEXT STYLE.

SITE
- BUILDING
- EDGE OF CONCRETE
- EDGE OF PAVEMENT
- CURB
- ℄ OF ROAD
- FENCE LINE
- STRIPING
- HANDICAP PARKING

PROPERTY
- PROPERTY LINE
- EASEMENT
- RIGHT OF WAY LINE

CONTROL
- BENCHMARK

TOPO
- GRADE SHOT
- CONTOUR
- TOP OF BANK "TOP"
- BOTTOM OF BANK
- ℄ OF SWALE "DITCH"

UTILITIES
- WATER MAIN
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- SANITARY SEWER (GRAVITY)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEAN OUT
- STORMWATER PIPE
- MITERED END SECTION
- GAS LINE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- TRANSFORMER
- POWER POLE
- LIGHT POLE
- TELEPHONE
- TELEPHONE RISER
- CABLE

PROPOSED
PROPOSED INFORMATION WILL BE DEPICTED IN THIS TEXT STYLE.

SITE
- *BUILDING*
- *CONCRETE*
- *RESURFACE PAVEMENT*
- *PROPOSED PAVEMENT*
- *CURB*
- *℄ OF ROAD*
- *FENCE LINE*
- *STRIPING*
- *HANDICAP PARKING*
- *HANDICAPPED SIGN*

PROPERTY
- *PROPOSED SITE BOUNDARY*
- *EASEMENT*

UTILITIES
- *WATER MAIN*
- *WATER METER*
- *WATER VALVE*
- *FIRE HYDRANT*
- *BACK FLOW PREVENTOR*
- *FIREMAIN*
- *IRRIGATION LINE*
- *SANITARY SEWER (GRAVITY)*
- *SANITARY SEWER MANHOLE*
- *SANITARY SEWER CLEAN OUT*
- *OVERHEAD ELECTRIC*
- *TRANSFORMER*
- *POWER POLE*
- *LIGHT POLE*

EROSION CONTROL
- *SILT FENCE*

DEMOLITION
- *PAVEMENT/CONCRETE TO BE REMOVED WITH SAW CUT EDGE*

ABBREVIATIONS

CONSTR - CONSTRUCT
DBI - DITCH BOTTOM INLET
EL - ELEVATION
MEG - MATCH EXISTING GRADE
T/C - TOP OF CURB
B/C - BOTTOM OF CURB
E/P - EDGE OF PAVEMENT
TYP - TYPICAL
SF - SQUARE FEET
PUD - PLANNED UNIT DEVELOPMENT
INV - INVERT
N - NORTHING
E - EASTING
ERCP - ELLIPTICAL REINFORCED CONCRETE PIPE
RCP - REINFORCED CONCRETE PIPE
RT - RIGHT
LT - LEFT
STA - STATION
OFF - OFFSET
MAX - MAXIMUM
MIN - MINIMUM
BFP - BACKFLOW PREVENTER

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MARK J. FREDERICK
STATE OF FLORIDA
No. 70671
PROFESSIONAL ENGINEER
12/4/2018
MARK J. FREDERICK, PE
FLORIDA PE LICENSE NO. 70671

PROJECT:

HCSO DETENTION FACILITY EMPLOYEE PARKING

SEBRING, FLORIDA

HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE
SEBRING, FL 33870

WOOD PROJECT NO: 600379.2

REVISIONS

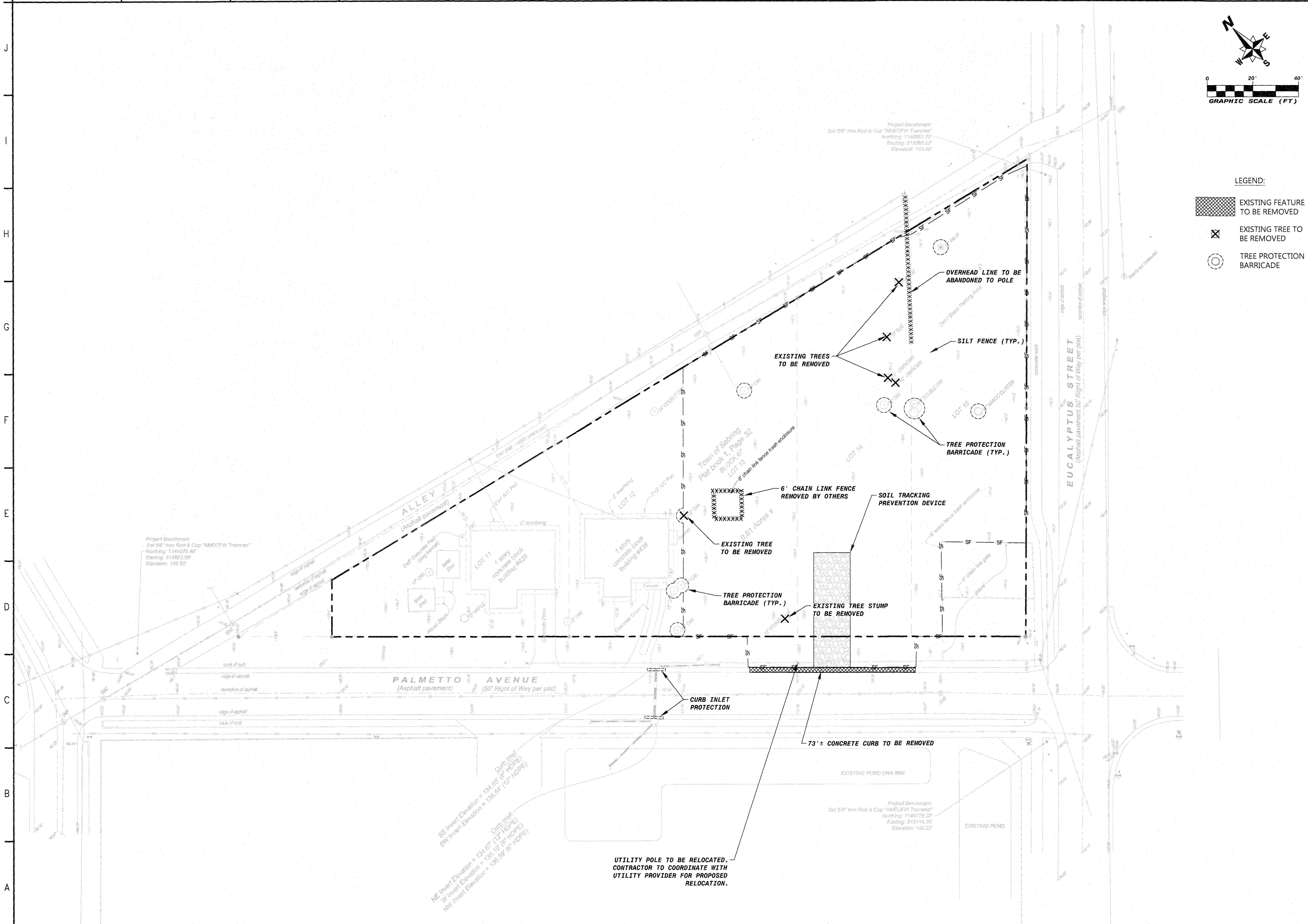
NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:	REV. #
G-002	0
SHEET 2 OF 9 SHEETS	



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APPROVED BY:	MJF
DATE:	08/03/2018

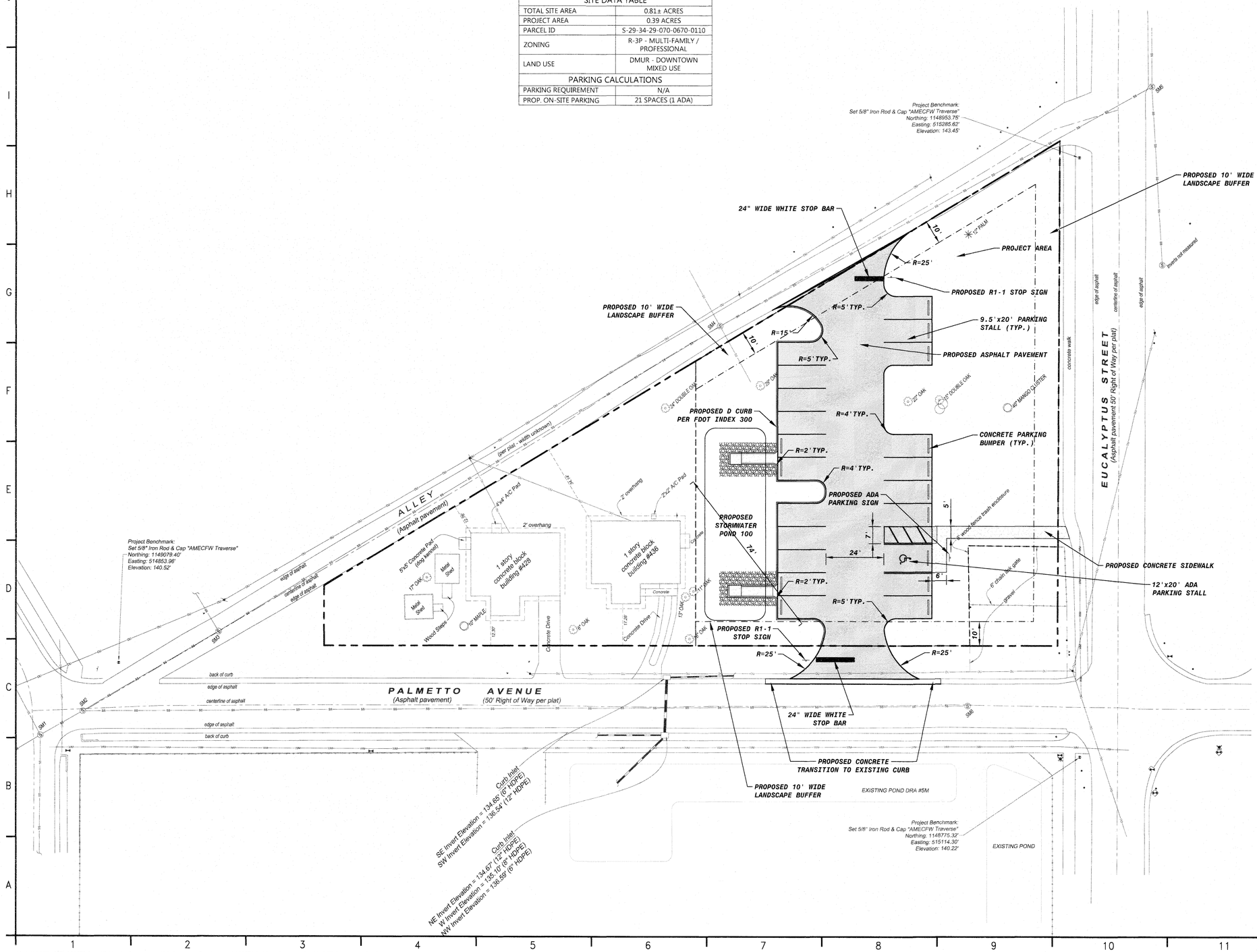
SHEET TITLE:

EXISTING CONDITIONS & DEMOLITION PLAN

SHEET NUMBER:	REV. #
D-101	0
SHEET 3 OF 9 SHEETS	

P:\PROJECTS-C3D\600379.2 - Highlands County - HCSO Employee Parking\dwg\600379.2 D-100.dwg - D-101 EXISTING CONDITIONS & DEMOLITION PLAN 12/03/2018 10:02am mark.frederick

SITE DATA TABLE	
TOTAL SITE AREA	0.81± ACRES
PROJECT AREA	0.39 ACRES
PARCEL ID	S-29-34-29-070-0670-0110
ZONING	R-3P - MULTI-FAMILY / PROFESSIONAL
LAND USE	DMUR - DOWNTOWN MIXED USE
PARKING CALCULATIONS	
PARKING REQUIREMENT	N/A
PROP. ON-SITE PARKING	21 SPACES (1 ADA)



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12/4/2018

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APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

SITE PLAN

SHEET NUMBER:	REV. #
C-110	0
SHEET 4 OF 9 SHEETS	

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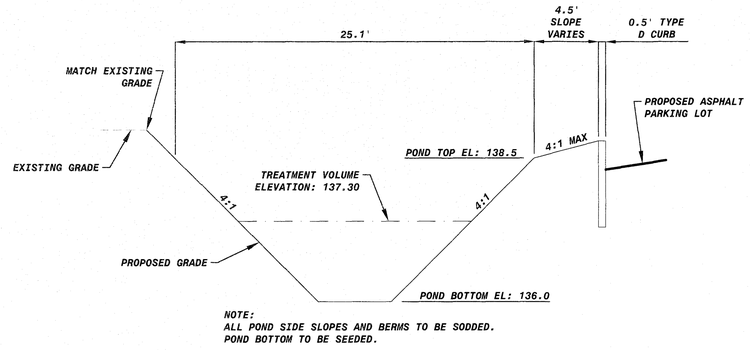

NOTE:
ALL POND SIDE SLOPES AND BERMS TO BE SODDED.
POND BOTTOM TO BE SEEDED.

A — POND 100 SECTION
NOT TO SCALE

N W E S

0 20' 40'
GRAPHIC SCALE (FT)

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12/4/2018
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SEBRING, FL 33870

WOOD PROJECT NO:
600379.2

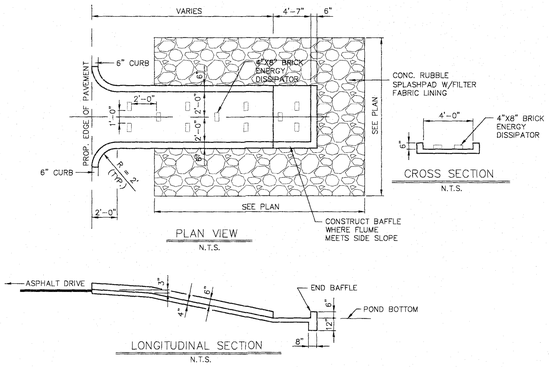
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

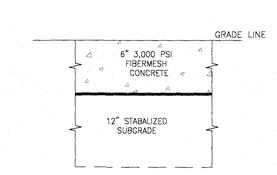
GRADING & DRAINAGE PLAN

SHEET NUMBER:	REV. #
C-120	0
SHEET 5 OF 9 SHEETS	



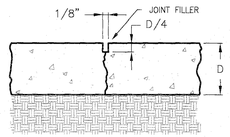
4' CONCRETE FLUME DETAIL

(2 REQUIRED) N.T.S.



TYPICAL CONCRETE PAVEMENT

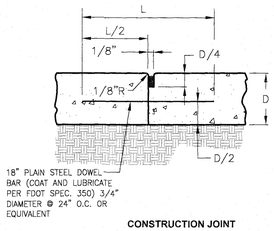
N.T.S.



CONTRACTION (CONTROL) JOINT

N.T.S.

UNDOWELED TRANSVERSE CONTRACTION OR LONGITUDINAL JOINT, SAWED



CONSTRUCTION JOINT

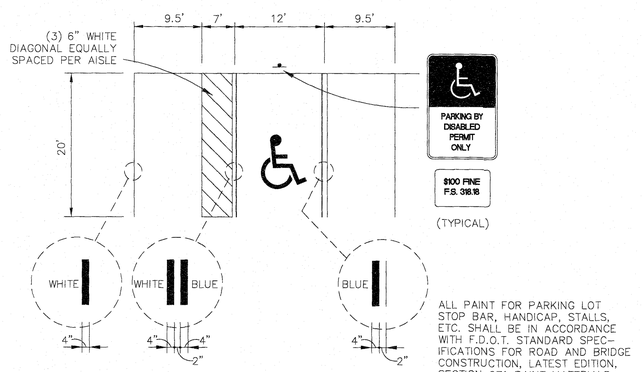
N.T.S.

RECOMMENDED MAX. JOINT SPACINGS

PAVEMENT THICKNESS (INCHES)	RECOMMENDED MAXIMUM JOINT SPACING (FEET)
3.5 (FOR WHITETOPPING ONLY)	6
4.0	10
4.5	10
5.0	12
5.5	12
6.0	15
OVER 6.0	15

GENERAL NOTES:

1. ALL CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
2. PAVEMENT–MAXIMUM JOINT SPACING SHALL BE 2.5 TIMES THICKNESS IN UNIT OF FEET AND LESS THAN 15 FEET IN LENGTH (E.G. T=4 INCH SPACING AT 10'x10')



ALL PAINT FOR PARKING LOT STOP BAR, HANDICAP, STALLS, ETC. SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 971 PAINT MATERIALS.

PARKING STRIPING DETAIL

N.T.S.

NOTES:

1) STANDARD CONCRETE SIDEWALK WITH 3,000 P.S.I. CONCRETE ON A COMPACTED SUB-BASE 95% MIN. PER AASHTO T-180.
2) SIDEWALKS TO BE CONSTRUCTED AT GRADE UNLESS OTHERWISE NOTED ON THE GRADING & DRAINAGE SHEETS.
3) SIDEWALKS ARE TO BE CONSTRUCTED WITH FIBER MESH REINFORCED CONCRETE.
4) SIDEWALKS ARE TO BE CONSTRUCTED PER FDOT INDEX #310 & #304.
5) DETECTABLE WARNING SURFACE SHALL BE PROVIDED IN ACCORDANCE WITH FDOT INDEX #304.
6) CONTRACTOR SHALL EVALUATE THE SIDEWALK LOCATION THROUGHOUT THE PROJECT LIMITS. SHOULD A CONFLICT BE ENCOUNTERED, THE SIDEWALK SHALL BE ADJUSTED TO MAINTAIN PEDESTRIAN ACCESS AND MEET ADA REQUIREMENTS. COORDINATE WITH THE PROJECT ENGINEER.

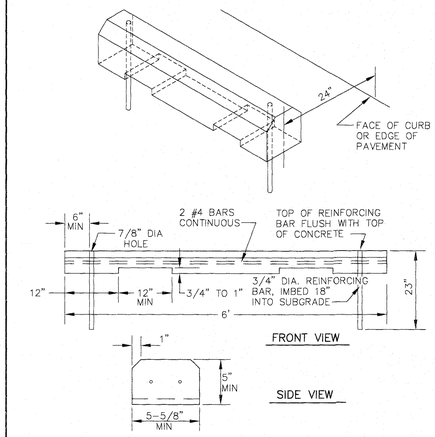
TYPICAL SIDEWALK SECTION

N.T.S.

1. 1-1/2" SUPERPAVE ASPHALT (SP-9.5) PER FDOT SPECIFICATION 334.
2. 6" CRUSHED SHELL BASE (LBR 100) PER FDOT SPECIFICATION 200. COMPACTED TO 98% MAX DENSITY PER AASTHO-T180.
3. 8" STABILIZED SUBGRADE (LBR 40) PER FDOT SPECIFICATION 160. COMPACTED TO 98% MAX DENSITY PER AASHTO-T180.

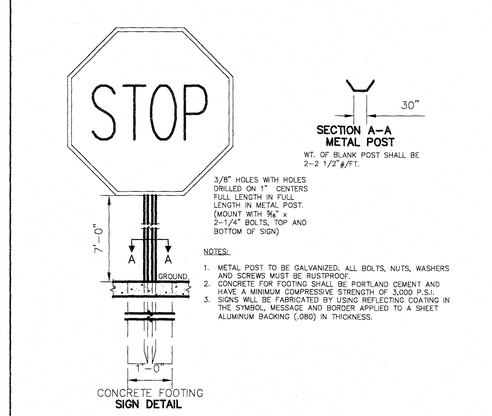
TYPICAL PAVEMENT SECTION

N.T.S.

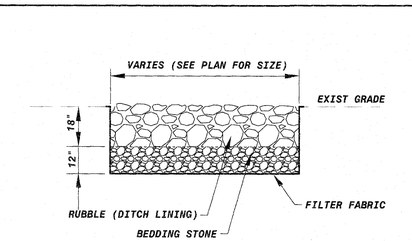


PARKING BUMPER

(PRECAST CONCRETE)
NOT TO SCALE



TYPICAL STOP SIGN DETAIL

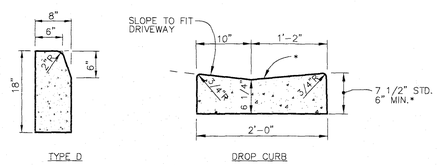


NOTES:

1) FILTER FABRIC OVERLAP AND EDGE TREATMENT PER MANUFACTURER'S RECOMMENDATIONS.
2) DO NOT DROP BEDDING STONE OR RIPRAP FROM HEIGHTS GREATER THAN 3 FEET ONTO THE FABRIC.
3) MATERIALS SHALL CONFORM TO FDOT SPECIFICATIONS

RUBBLE (DITCH LINING) RIPRAP

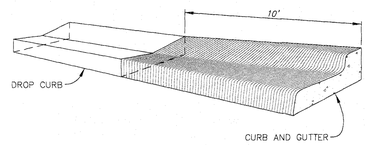
N.T.S.



NOT TO SCALE
FDOT INDEX 300
SHEET 1 OF 1

CURB & GUTTER DETAILS

N.T.S.



DROP CURB TO CURB AND GUTTER TRANSITION DETAIL

N.T.S.

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MARK J. FREDERICK LICENSE No. 70671 STATE OF FLORIDA

12/4/2018

MARK J. FREDERICK, PE
FLORIDA PE LICENSE NO. 70671

PROJECT:

HCSO DETENTION FACILITY EMPLOYEE PARKING

SEBRING, FLORIDA

HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE
SEBRING, FL 33870

WOOD PROJECT NO: 600379.2

REVISIONS

NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

CONSTRUCTION DETAILS

SHEET NUMBER:	REV. #
C-520	0
SHEET 6 OF 9 SHEETS	

P:\PROJECTS-C3D\600379.2 - Highlands County - HCSO Employee Parking\dwg\600379.2 CD-500.dwg - C-520 CONSTRUCTION DETAILS 12/03/2018 10:09am mark.frederick

1.A. NATURE OF CONSTRUCTION ACTIVITY:
THE PROJECT ENTAILS CONSTRUCTION OF AN EMPLOYEE PARKING LOT WITH A STORMWATER PONDS PROVIDING STORMWATER TREATMENT AND ATTENUATION.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE GENERAL SEQUENCE OF ACTIVITIES AS LISTED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING ANY OTHER WORK FOR THE PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED AND CONSTRUCTION IS COMPLETE.

2. INSTALLATION OF SILT FENCE AND OTHER MEASURES THAT MAY BECOME NECESSARY AT ACTUAL TIME OF CONSTRUCTION.
3. DEMOLITION, CLEARING AND GRUBBING
4. INITIAL EARTHWORK/ROUGH GRADING/POND CONSTRUCTION
5. UTILITY INSTALLATION/ STORM SEWER INSTALLATION
6. PAVEMENT AND HARDSCAPE INSTALLATION
7. FINAL GRADING AND STABILIZATION

1.C AREA ESTIMATES
TOTAL SITE AREA IS APPROXIMATELY 0.81 ACRES. 0.53 ACRES WILL BE DISTURBED AND IMPROVED.

1.D RUNOFF DATA:
RATIONAL METHOD RUNOFF COEFFICIENTS
BEFORE: 0.15 DURING: 0.5 AFTER: 0.5

ONSITE SOILS: SOILS ARE PREDOMINATELY ASTATULA SAND. THESE SOILS ARE UNIFORMLY A SOIL TYPES.

OUTFALL INFORMATION:

OUTFALL 1: DISCHARGE FROM POND 100 TO EXISTING STORM SEWER SYSTEM. RECEIVING WATER IS LAKE JACKSON.

SITE MAP:
THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE COVER SHEET OF THESE CONSTRUCTION PLANS.

DRAINAGE PATTERNS:
EXISTING DRAINAGE PATTERNS WILL NOT BE MODIFIED AS A RESULT OF THIS PROJECT.

APPROXIMATE SLOPES:
THE SLOPES OF THE SITE CAN BE SEEN ON THE GRADING AND DRAINAGE PLAN.

AREAS OF SOIL DISTURBANCE:
THE AREAS TO BE DISTURBED ARE INDICATED ON THE GRADING AND DRAINAGE PLAN.

AREAS NOT TO BE DISTURBED:
AREAS LOCATED OUTSIDE OF THE WORK AREAS DEFINED WITHIN THE CONSTRUCTION PLANS SHALL NOT BE DISTURBED.

LOCATIONS OF TEMPORARY CONTROLS:
LOCATIONS OF TEMPORARY CONTROLS ARE INDICATED ON THE GRADING AND DRAINAGE PLAN AND ARE SUBJECT TO CHANGE AS CONSTRUCTION ACTIVITIES PROGRESS IN ORDER TO MAXIMIZE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL.

LOCATIONS OF PERMANENT CONTROLS:
LOCATIONS OF PERMANENT CONTROLS ARE INDICATED ON THE GRADING AND DRAINAGE DETAIL SHEETS AND SHALL BE CONSTRUCTED AS DEPICTED.

AREAS TO BE STABILIZED:
TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE GRADING AND DRAINAGE DETAIL SHEETS.

SURFACE WATERS:
NO WETLAND LIMITS ARE DEPICTED WITHIN THE CONSTRUCTION PLANS.

DISCHARGE POINTS TO SURFACE WATERS:
DISCHARGE POINTS TO SURFACE WATERS CORRESPOND TO THE LOCATIONS OF EXISTING STORM SEWER OUTFALLS.

1.E. RECEIVING WATERS:
SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS:

THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED PLAN. THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A. EROSION AND SEDIMENT CONTROLS:

1. STABILIZATION PRACTICES:
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. EXISTING VEGETATION SHALL BE PRESERVED WHERE ATTAINABLE. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE AND WHEN STABILIZATION MEASURES ARE INITIATED SHALL BE INCLUDED IN THE CONTRACTOR'S PLAN. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY STABILIZATION PRACTICES MAY INCLUDE:
ARTIFICIAL COVERINGS, TURF, SEEDING, SOD, AND OTHER APPROPRIATE MEASURES.

PERMANENT STABILIZATION PRACTICES MAY INCLUDE:
SEEDING, MULCHING, GEOTEXTILES, VEGETATIVE BUFFER STRIPS, PRESERVATION OF MATURE VEGETATION, SOD, AND OTHER APPROPRIATE MEASURES.

2. STRUCTURAL PRACTICES:
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. STRUCTURAL BMPs SHALL BE PLACED ON UPLAND SOILS UNLESS A SPECIFICALLY AUTHORIZED THROUGH APPLICABLE DEP OR WMD PERMITS. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY STRUCTURAL PRACTICES MAY INCLUDE:
SILT FENCE, EARTH DIKES, DIVERSIONS, SWALES, SEDIMENT TRAPS, CHECK DAMS, SUBSURFACE DRAINS, PIPE SLOPE DRAINS, LEVEL SPREADERS, STORMDRAIN INLET PROTECTION, ROCK OUTLET PROTECTION, COAGULATING AGENTS, SEDIMENT BASINS, AND OTHER APPROPRIATE MEASURES.

PERMANENT STRUCTURAL PRACTICES MAY INCLUDE:
SWALES, LEVEL SPREADERS, ROCK OUTLET PROTECTION, REINFORCED SOIL RETAINING SYSTEMS, GABIONS, SEDIMENT BASINS, AND OTHER APPROPRIATE MEASURES.

3. SEDIMENT BASINS:
A. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE.
B. FOR DRAINAGE BASINS OF LESS THAN 10 ACRES, SEDIMENT BASINS AND/OR SEDIMENT TRAPS ARE RECOMMENDED BUT NOT REQUIRED.
C. AREAS THAT WILL BE USED FOR PERMANENT STORMWATER INFILTRATION TREATMENT (STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.

2.A. PERMANENT STORMWATER MANAGEMENT CONTROLS:
FOLLOWING CONSTRUCTION, THE SITE WILL BE STABILIZED WITH NATURAL GROUND COVER AND MAINTAINED BY THE OWNER.

2.B. CONTROLS FOR OTHER POTENTIAL POLLUTANTS:

1. WASTE DISPOSAL:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

- PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2. OFF-SITE VEHICLE TRACKING & DUST CONTROL:
IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- COVERING LOADED HAUL TRUCKS WITH TARPAULINS.
- REMOVING EXCESS DIRT FROM ROADS DAILY.
- STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

3. STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:
THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

4. FERTILIZERS AND PESTICIDES:
THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE FDOT STANDARD SPECIFICATIONS.

5. TOXIC SUBSTANCES AND HAZARDOUS MATERIALS:
THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES AND HAZARDOUS MATERIALS(INCLUDING FUEL) THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

3.0 MAINTENANCE:

3.A. THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

1. SILT FENCE: MAINTAIN PER SECTION 104 OF THE FDOT STANDARD SPECIFICATIONS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.

2. SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

3. SEDIMENT BASINS: REMOVE SEDIMENT FROM TEMPORARY SEDIMENT BASINS WHEN THE SEDIMENT BECOMES 1.5' DEEP AT ANY POINT IN THE BASIN. AT A MINIMUM, TEMPORARY SEDIMENT BASINS SHALL BE MAINTAINED UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED.

4.0 INSPECTIONS:

4.A. QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

1. POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

2. POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

3. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

4. AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

5. STRUCTURAL CONTROLS.

6. STORMWATER MANAGEMENT SYSTEMS.

7. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

4.A. THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

4.B. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION; NAMES(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION; THE DATE(S) OF THE INSPECTION; RAINFALL DATA; AND MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORMWATER POLLUTION PREVENTION PLAN SHALL BE MADE AND RETAINED BY THE CONTRACTOR.

5.0 NON-STORMWATER DISCHARGES:

THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.

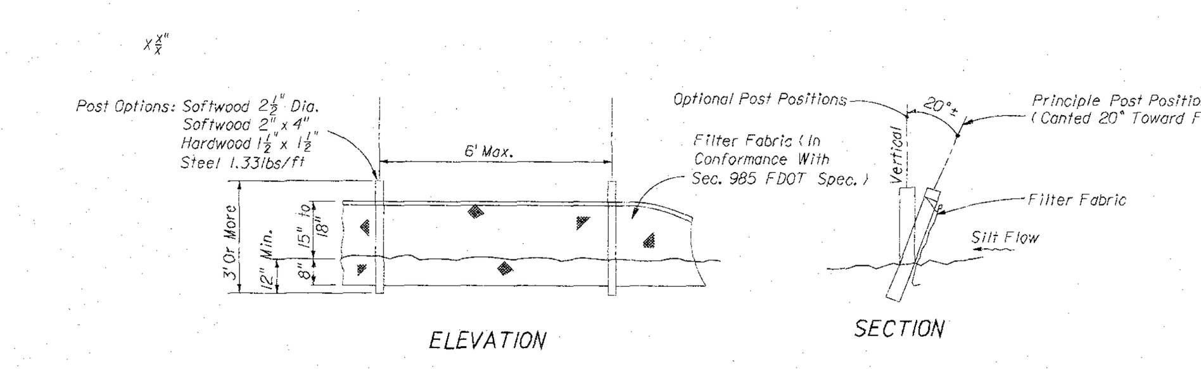
6.0 CONTRACTOR/SUBCONTRACTOR CERTIFICATION:

6.A ALL CONTRACTORS AND SUBCONTRACTORS SHALL SIGN A COPY OF THE CERTIFICATION STATEMENT IN PART V.D.6.b. OF THE STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.

7.0 NOTES:

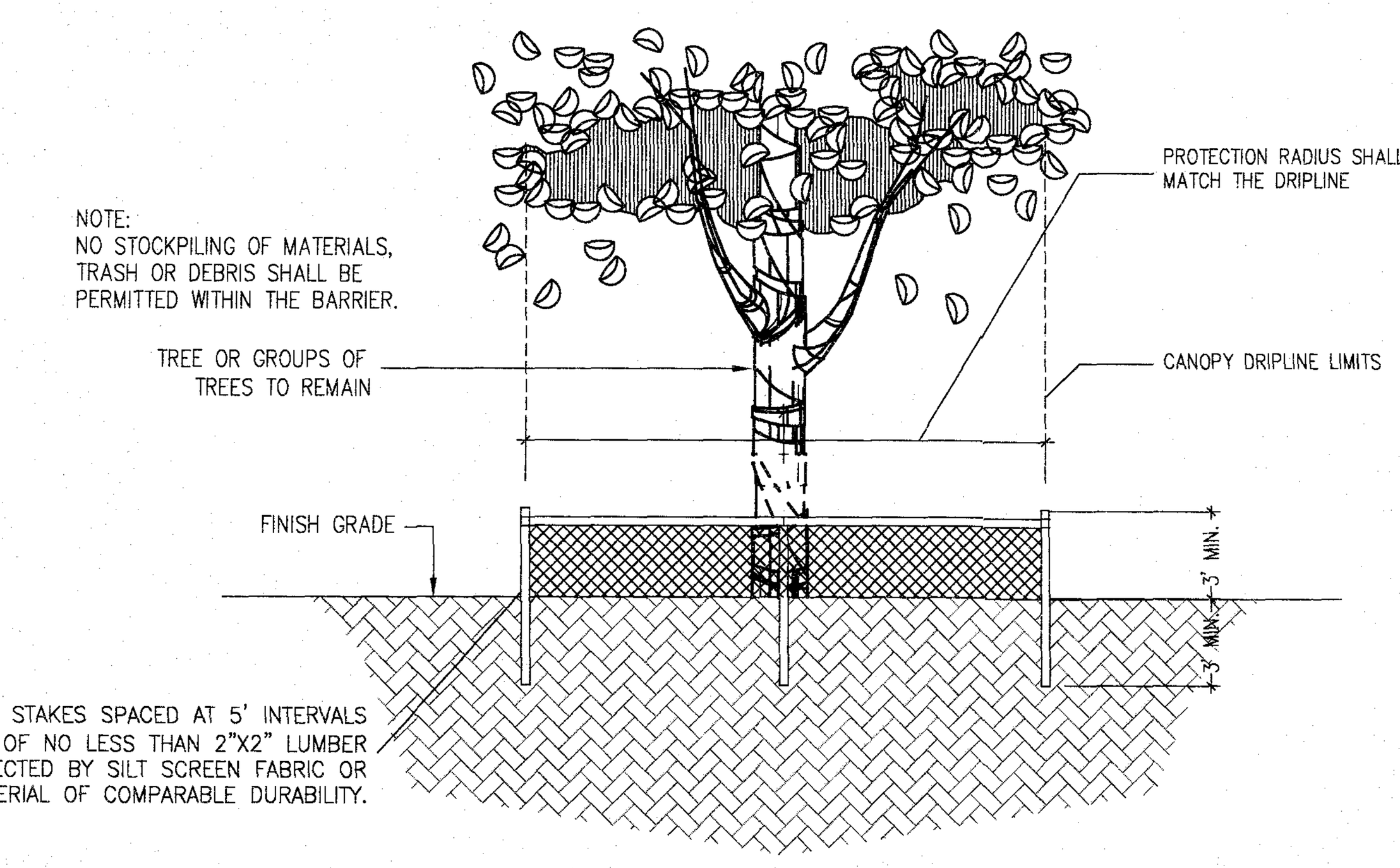
7.A THIS PLAN SHALL BE AMENDED WHENEVER THE PROJECT IS ALTERED OR MODIFIED IN A MANNER THAT WILL RESULT IN: (1) THE POTENTIAL DISCHARGE OF POLLUTANTS, (2) A CHANGE IN THE AMOUNT OF DISCHARGE, (3) A CHANGE IN THE NUMBER OR LOCATION OF STORMWATER DISCHARGE POINTS, OR (4) ADVERSE IMPACTS TO WETLANDS, AND SUCH CHANGE(S) HAVE NOT OTHERWISE BEEN PREVIOUSLY ADDRESSED IN THE APPROVED PLAN. THIS PLAN SHALL BE AMENDED IF ITS IMPLEMENTATION DOES NOT ELIMINATE OR MINIMIZE EROSION AND SEDIMENT DEPOSITION, OFF-SITE FLOODING, ADVERSE IMPACTS TO WETLANDS, OR VIOLATIONS OF STATE WATER QUALITY STANDARDS. AMENDMENTS TO THE PLAN SHALL BE PREPARED AND KEPT AS SEPARATE DOCUMENTS ALONG WITH THE ORIGINAL PLAN. ALL ALTERATIONS TO THE SYSTEM MUST BE SHOWN ON THE AMENDED PLAN ALONG WITH THE DOCUMENTATION OF THE REQUIRED APPROVAL(S).

STORMWATER POLLUTION PREVENTION PLAN NOTES



REFER TO FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL SECTION V TEMPORARY CONSTRUCTION BMPs FOR ADDITIONAL INFORMATION

TYPE III SILT FENCE



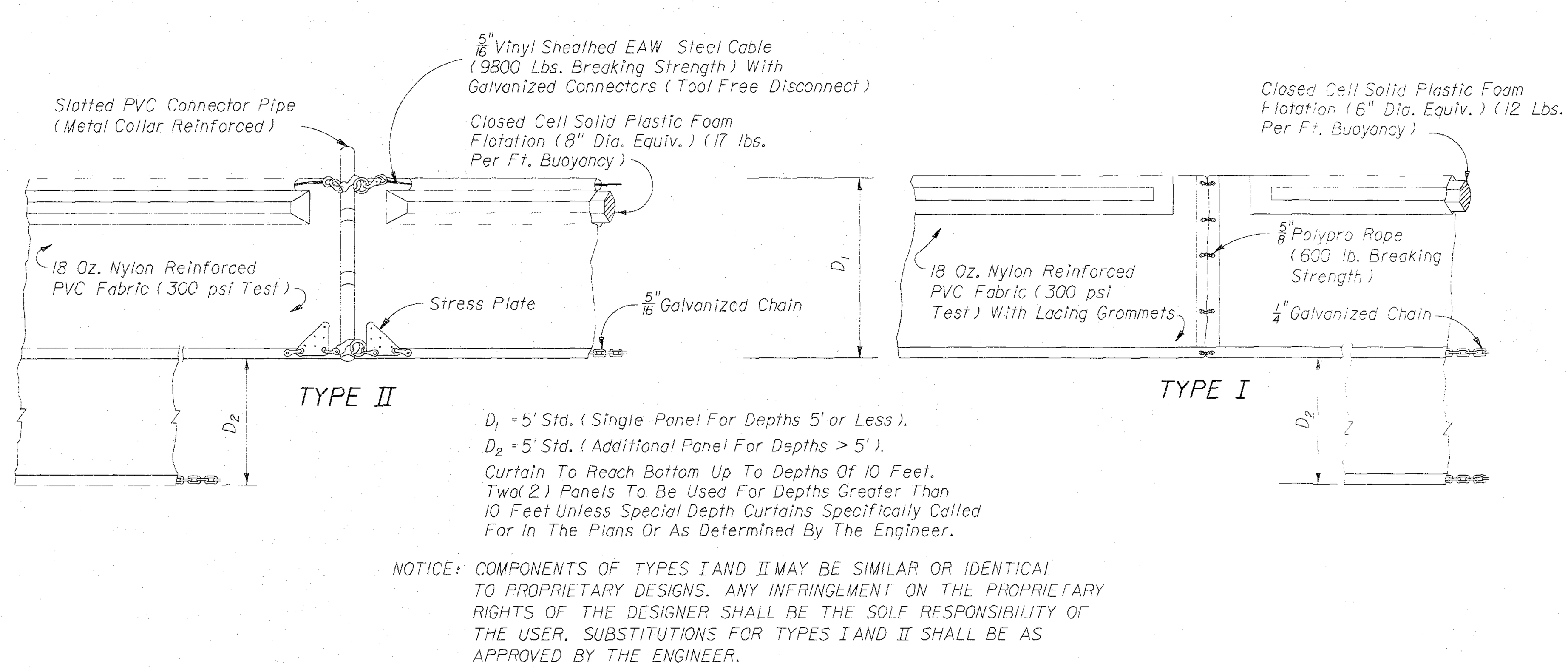
TO RESTRICT ACCESS INTO THE AREA WITHIN THE CANOPY DRIPLINE OF A TREE, A PHYSICAL STRUCTURE NOT LESS THAN 3 FEET IN HEIGHT, COMPRISED OF WOOD OR OTHER SUITABLE MATERIAL, IS PLACED AROUND THE TREE AT THE CANOPY DRIPLINE, EXCEPT WHERE LAND ALTERATION OR CONSTRUCTION ACTIVITIES ARE APPROVED WITHIN THE CANOPY DRIPLINE.

THE CANOPY DRIPLINE OF A TREE IS THE IMAGINARY, VERTICAL LINE THAT EXTENDS DOWNWARD FROM THE OUTERMOST TIPS OF THE TREE'S BRANCEHS TO THE GROUND

THE PROTECTIVE BARRIER MUST REMAIN IN PLACE UNTIL THE LAND ALTERATION AND CONSTRUCTION ACTIVITIES ARE COMPLETED OR UNTIL COMMENCEMENT OF GRADE FINISHING AND SODDING.

TREE PROTECTION DETAIL

NTS



D_1 = 5' Std. (Single Panel For Depths 5' or Less).
D_2 = 5' Std. (Additional Panel For Depths > 5').
Curtain To Reach Bottom Up To Depths Of 10 Feet.
Two(2) Panels To Be Used For Depths Greater Than 10 Feet Unless Special Depth Curtains Specifically Called For In The Plans Or As Determined By The Engineer.

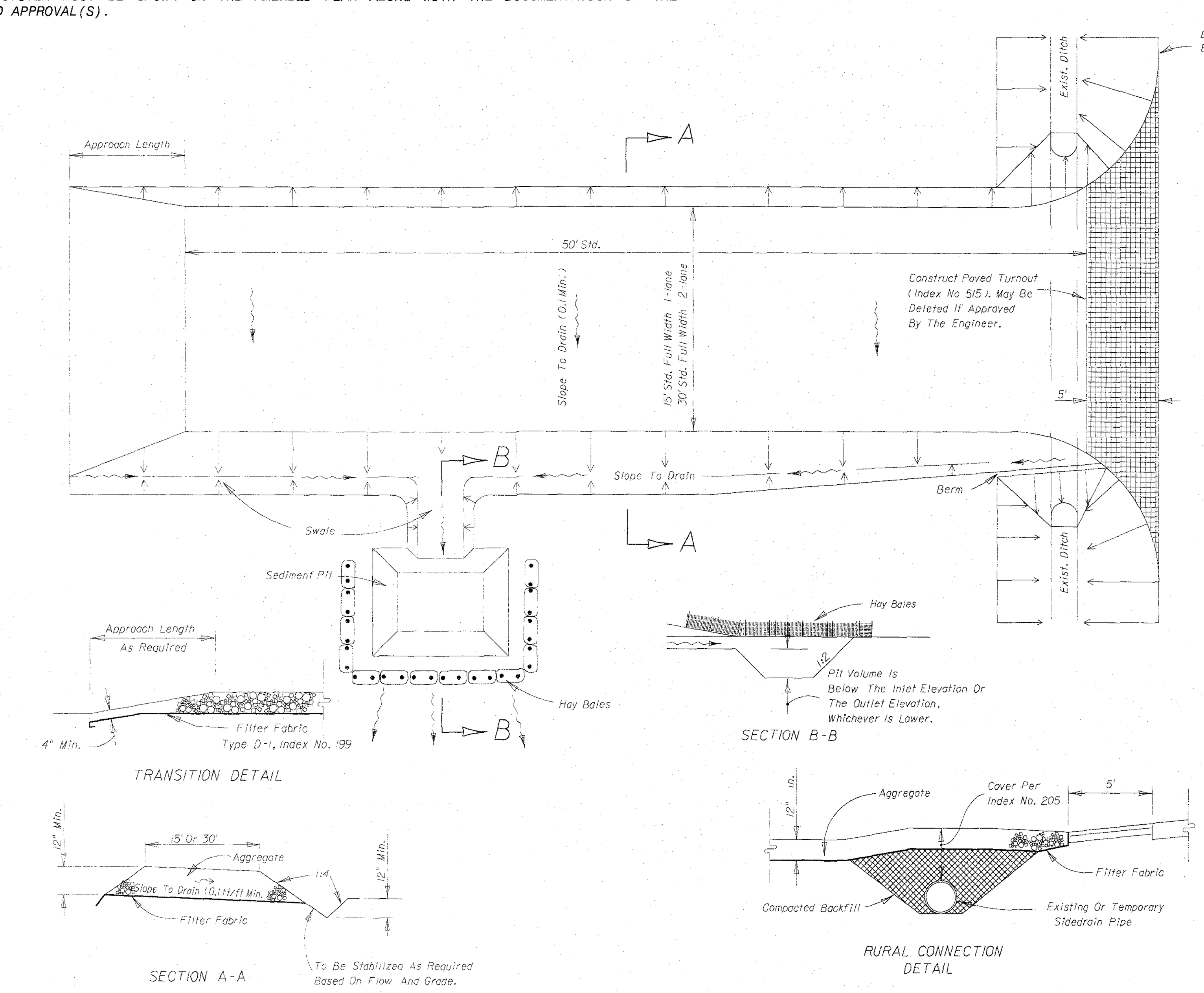
NOTICE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

REFER TO FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL SECTION V TEMPORARY CONSTRUCTION BMPs FOR ADDITIONAL INFORMATION

FLOATING TURBIDITY BARRIERS

NTS

NTS



GENERAL NOTES

1. A Soil Tracking Prevention Device (STPD) shall be constructed at locations designated by the engineer for points of egress from unstabilized areas of the project to public roads where offsite tracking of mud could occur. Traffic from unstabilized areas of the construction project shall be directed thru a STPD. Barriers, flagging, or other positive means shall be used as required to limit and direct vehicular egress across the STPD.

2. The Contractor may propose an alternative technique to minimize offsite tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.

3. All materials spill d, dropp d, or tracked onto public roads (including the STPD aggregate and construction mud) shall be removed daily, or more frequently if so directed by the Engineer.

4. Aggregates shall be as described in Section 901 excluding 901-2.3. Aggregates shall be FDOT size #1. If this size is not available, the next available smaller size aggregate may be substituted with the approval of the Engineer. Sizes containing excessive small aggregate will track off the project and are unsuitable.

5. The sediment pit should provide a retention volume of 3600 cubic feet/acre of surface area draining to the pit.
When the STPD is isolated from other drainage areas, the following pit volumes will satisfy this requirement:
15' x 50' = 100 ft^3 30' x 50' = 200 ft^3
As an option to the sediment pit, the width of the swale bottom can be increased to obtain the volume. When the sediment pit or swale volume has been reduced to one half, it shall be cleaned. When a swale is used, hay bales or silt fence shall be placed along the entire length.

6. The swale ditch draining the STPD shall have a 0.2% minimum and a 1.0% maximum grade along the STPD and to the sediment pit.

7. Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.

8. The STPD shall be maintained in a condition that will allow it to perform its function. To prevent offsite tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabil[illegible] to the STPD may be required to limit the mud tracked.

9. A STPD shall be paid for under the contract unit price for Soil Tracking Prevention Device, EA. The unit price shall constitute full compensation for construction, maintenance, replacement of materials, removal, and restoration of the area utilized for the STPD; including but not limited to excavation, grading, temporary pipe (including MES when required), filter fabric, aggregate, paved turnout (including asphalt and base construction), ditch stabilization, approach route stabilization, ediment rem val and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Hay bales shall be paid for under the contract unit price for Hay or Straw Baled, EA. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.

10. The nominal size of a standard STPD is 15' x 50' unless otherwise shown in the plans. If the volume of entering and exiting vehicles warrant, a 30' width STPD may be used if approved by the Engineer. When a double width (30') STPD is used, the pay quantity shall be 2 for each l ation.

REFER TO FDOT EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL SECTION V TEMPORARY CONSTRUCTION BMPs FOR ADDITIONAL INFORMATION

SOIL TRACKING PREVENTION DEVICE

NTS

wood.
ENVIRONMENT & INFRASTRUCTURE SOLUTIONS, INC.
2000 E Edgewood Drive, Suite 215
Lakeland, FL 33803
Phone: 1.863.667.2345
Fax: 1.863.667.2662
www.woodplc.com
CA-5392

12/4/2018
MARK J. FREDERICK, PE
FLORIDA PE LICENSE NO. 70671

PROJECT:

HCSO DETENTION FACILITY EMPLOYEE PARKING

SEBRING, FLORIDA

HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE
SEBRING, FL 33870

WOOD PROJECT NO:
600379.2

REVISIONS

NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

SHEET TITLE:

STORMWATER POLLUTION PREVENTION PLAN

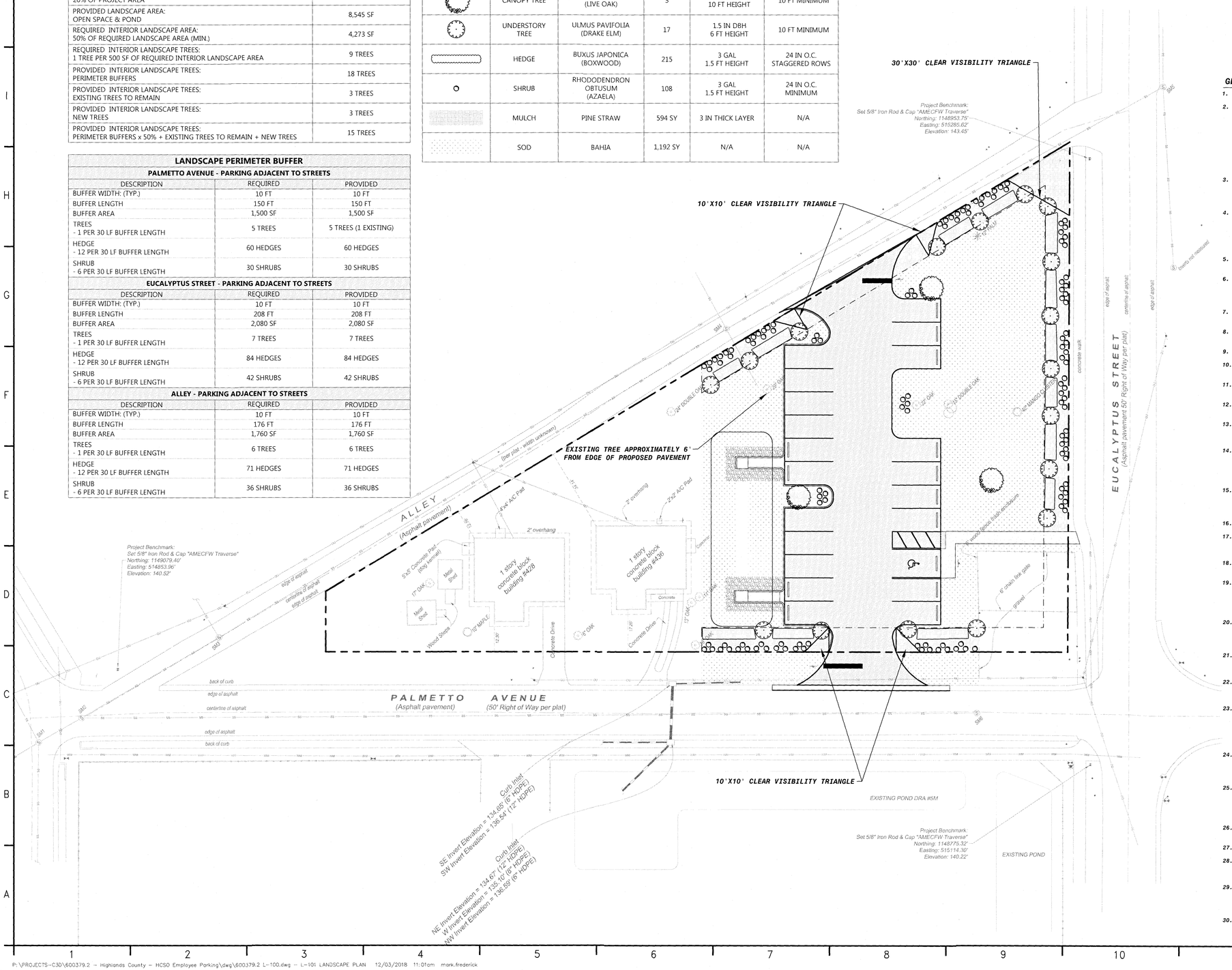
SHEET NUMBER:	REV. #
C-525	0

SHEET 7 OF 9 SHEETS

LANDSCAPING CALCULATIONS	
PROJECT AREA:	0.53 ACRES (22,966± SF)
LANDSCAPE AREA: 20% OF PROJECT AREA	4,594 SF
PROVIDED LANDSCAPE AREA: OPEN SPACE & POND	8,545 SF
REQUIRED INTERIOR LANDSCAPE AREA: 50% OF REQUIRED LANDSCAPE AREA (MIN.)	4,273 SF
REQUIRED INTERIOR LANDSCAPE TREES: 1 TREE PER 500 SF OF REQUIRED INTERIOR LANDSCAPE AREA	9 TREES
PROVIDED INTERIOR LANDSCAPE TREES: PERIMETER BUFFERS	18 TREES
PROVIDED INTERIOR LANDSCAPE TREES: EXISTING TREES TO REMAIN	3 TREES
PROVIDED INTERIOR LANDSCAPE TREES: NEW TREES	3 TREES
PROVIDED INTERIOR LANDSCAPE TREES: PERIMETER BUFFERS x 50% + EXISTING TREES TO REMAIN + NEW TREES	15 TREES

LANDSCAPE PERIMETER BUFFER		
PALMETTO AVENUE - PARKING ADJACENT TO STREETS		
DESCRIPTION	REQUIRED	PROVIDED
BUFFER WIDTH: (TYP.)	10 FT	10 FT
BUFFER LENGTH	150 FT	150 FT
BUFFER AREA	1,500 SF	1,500 SF
TREES - 1 PER 30 LF BUFFER LENGTH	5 TREES	5 TREES (1 EXISTING)
HEDGE - 12 PER 30 LF BUFFER LENGTH	60 HEDGES	60 HEDGES
SHRUB - 6 PER 30 LF BUFFER LENGTH	30 SHRUBS	30 SHRUBS
EUCALYPTUS STREET - PARKING ADJACENT TO STREETS		
DESCRIPTION	REQUIRED	PROVIDED
BUFFER WIDTH: (TYP.)	10 FT	10 FT
BUFFER LENGTH	208 FT	208 FT
BUFFER AREA	2,080 SF	2,080 SF
TREES - 1 PER 30 LF BUFFER LENGTH	7 TREES	7 TREES
HEDGE - 12 PER 30 LF BUFFER LENGTH	84 HEDGES	84 HEDGES
SHRUB - 6 PER 30 LF BUFFER LENGTH	42 SHRUBS	42 SHRUBS
ALLEY - PARKING ADJACENT TO STREETS		
DESCRIPTION	REQUIRED	PROVIDED
BUFFER WIDTH: (TYP.)	10 FT	10 FT
BUFFER LENGTH	176 FT	176 FT
BUFFER AREA	1,760 SF	1,760 SF
TREES - 1 PER 30 LF BUFFER LENGTH	6 TREES	6 TREES
HEDGE - 12 PER 30 LF BUFFER LENGTH	71 HEDGES	71 HEDGES
SHRUB - 6 PER 30 LF BUFFER LENGTH	36 SHRUBS	36 SHRUBS

LANDSCAPE MATERIALS					
SYMBOL	DESCRIPTION	BOTANICAL NAME	QUANTITY	MINIMUM SIZE	SPACING
	CANOPY TREE	QUERCUS VIRGINIANA (LIVE OAK)	3	2 IN DBH 10 FT HEIGHT	10 FT MINIMUM
	UNDERSTORY TREE	ULMUS PAVIFOLIA (DRAKE ELM)	17	1.5 IN DBH 6 FT HEIGHT	10 FT MINIMUM
	HEDGE	BUXUS JAPONICA (BOXWOOD)	215	3 GAL 1.5 FT HEIGHT	24 IN O.C. STAGGERED ROWS
	SHRUB	RHODODENDRON OBTUSUM (AZAELA)	108	3 GAL 1.5 FT HEIGHT	24 IN O.C. MINIMUM
	MULCH	PINE STRAW	594 SY	3 IN THICK LAYER	N/A
	SOD	BAHIA	1,192 SY	N/A	N/A



0 20' 40'
GRAPHIC SCALE (FT)

GENERAL LANDSCAPE NOTES

1. ALL PLANTS TO BE FLORIDA #1 OR BETTER.
2. LANDSCAPE CONTRACTOR TO PREPARE FINAL LANDSCAPE AND IRRIGATION PLANS IN COORDINATION WITH THE OWNER AND ARCHITECT. THIS DRAWING REFLECTS THE MINIMUM LANDSCAPING REQUIRED TO MEET AGENCY STANDARDS. FINAL PLANS TO BE APPROVED BY THE CITY PRIOR TO INSTALLATION. MINOR ADJUSTMENTS TO PLANTING LOCATIONS ARE ANTICIPATED TO ACCOMMODATE SITE CONDITIONS. PLANTING LOCATIONS SHALL BE STAKED AND APPROVED BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION.
3. ALL LANDSCAPED AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM (100% COVERAGE). THE AUTOMATIC IRRIGATION SYSTEM SHALL HAVE A RAIN SENSOR SYSTEM.
4. ALL DISTURBED AREAS SHALL BE RE-VEGETATED BY SODDING (BAHIA GRASS MINIMUM SODDING REQUIREMENTS SHALL INCLUDE A 2' (MINIMUM) STRIP ALONG ALL PAVEMENT AND CURBS, ALL SLOPES AND BERMS, ALL SWALES:DITCHES, AND 10' (MINIMUM) AROUND ALL STRUCTURES.
5. OWNER TO APPROVE ALL LANDSCAPE MATERIALS (PLANT SPECIES, MULCH, ETC.) PRIOR TO INSTALLATION.
6. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PRUNING AND/OR TRIMMING EXISTING TREES AS NEEDED TO IMPROVE THE HEALTH AND AESTHETICS OF THE TREES.
7. LARGE MATURING TREES MUST BE A MINIMUM OF 12' FROM UNDERGROUND UTILITIES.
8. A MINIMUM OF 3" DEPTH OF MULCH IS REQUIRED IN ALL NEW PLANT BEDS.
9. STAKING REQUIRED FOR ALL TREES.
10. A 3' RING OF MULCH SHALL BE MAINTAINED AROUND ALL NEW TREES NOT INCORPORATED IN PLANT BEDS.
11. UNOBSTRUCTED VISIBILITY REQUIRED WITHIN SITE VISIBILITY TRIANGLE.
12. PROTECTION REQUIRED FOR EXISTING TREES TO BE SAVED DURING CONSTRUCTION.
13. ALL PLANT BEDS SHALL BE FREE OF LIMEROCK, DEBRIS, AND IMPERVIOUS MATERIALS. EXCAVATION AND BACKFILLING MAY BE REQUIRED.
14. THE OWNER IS RESPONSIBLE FOR THE MAINTENANCE OF ALL PLANT MATERIALS AFTER ACCEPTANCE. LANDSCAPED AREA MUST BE MAINTAINED TO PRESENT A HEALTHY, NEAT, AND ORDERLY APPEARANCE AT ALL TIMES AND SHALL BE KEPT FREE OF TRASH AND DEBRIS.
15. OVERSTORY TREES ARE NOT ALLOWED WITHIN 12' FROM ANY CITY UTILITY LINE (WATER OR SANITARY SEWER MAINS) OR ANY OTHER UNDERGROUND OR OVERHEAD UTILITY LINE.
16. ADHERE TO PLANS AND SPECIFICATIONS.
17. VERIFY ALL UTILITY LOCATIONS IN THE FIELD BEFORE BEGINNING WORK. REPAIR DAMAGED UTILITIES TO OWNER'S SATISFACTION AT NO ADDITIONAL COST.
18. VERIFY PLANT QUANTITIES ON PLAN BEFORE PRICING WORK.
19. ALL PLANTS SHALL MEET SPECIFICATIONS. ROOT BALLS SHALL MEET OR EXCEED SIZE STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK LATEST EDITION." MAIN LEADERS OF ALL TREES SHALL REMAIN INTACT.
20. MULCH SHALL BE DRY, CLEAN, AND FREE FROM NOXIOUS WEEDS OR DELETERIOUS MATERIAL. MULCH PLANT PITS AND PLANTING BEDS WITH PINE STRAW MULCH TO THE DEPTH INDICATED ON THE DRAWINGS AND DETAILS.
21. ALL PROPOSED SOD, GROUNDCOVER, AND/OR SHRUBS SHALL BE PLACED A MINIMUM OF 2.5' FROM EXISTING TREES.
22. THE FINISHED GRADE OF THE TOPSOIL IN THE PARKING LOT ISLANDS SHOULD MOUND 12" ABOVE THE CURB, 24" FROM BACK OF CURB.
23. PREPARE ALL PLANTING SOIL MIX USED IN TREE AND GROUND COVER BEDS IN THE FOLLOWING PROPORTIONS:
    2 PARTS TOPSOIL AS SPECIFIED
    1 PARTS DECOMPOSED ORGANIC MATTER
    1 PARTS SAND
    PREMIX TOPSOIL BEFORE PLACING IN BED OR PIT.
24. REMOVE FROM SITE ANY PLANT MATERIAL WHICH TURNS BROWN OR DEFOLIATES WITHIN FIVE DAYS AFTER PLANTING. REPLACE IMMEDIATELY WITH APPROVED SPECIFIED MATERIAL.
25. MAINTAIN ALL PLANT MATERIAL UNTIL SUBSTANTIAL COMPLETION, UNLESS OTHERWISE SPECIFIED. MAINTENANCE INCLUDES WATERING, SPRAYING, WEEDING, MULCHING, STRAIGHTENING, FERTILIZING, CLEANUP, AND OTHER TASKS AS NEEDED.
26. INSTALL ALL PLANT MATERIALS IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.
27. NO GRAFTED TREES WILL BE ACCEPTED.
28. PRIOR TO TREE PLANTING, CONTRACTOR SHALL MEET WITH THE CITY INSPECTOR TO REVIEW ALL PLANTING LOCATION PRACTICES AND PLANTING SCHEDULE.
29. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT AND INSTALLATION OF ANY TREE THAT IS DEAD OR SIGNIFICANTLY DAMAGED DUE TO NEGLECT OR IMPROPER HANDLING UP TO FINAL ACCEPTANCE.
30. THE LANDSCAPING PLAN SHOWN HEREON IS IN SUBSTANTIAL CONFORMANCE WITH THE CITY OF SEBRING COMPREHENSIVE LANDSCAPE ADDENDUM.

wood.
AMEC FOSTER WHEELER DESIGN, LLC
1075 Big Shanty Road NW
Kennesaw, GA 30144
Phone: 1.863.667.2345
Fax: 1.863.667.2662
LC26000333

CHARLES A. PHILLIPS
FLORIDA RLA LICENSE NO. 956

PROJECT:

HCSO DETENTION FACILITY EMPLOYEE PARKING

SEBRING, FLORIDA

HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE
SEBRING, FL 33870

WOOD PROJECT NO:
600379.2

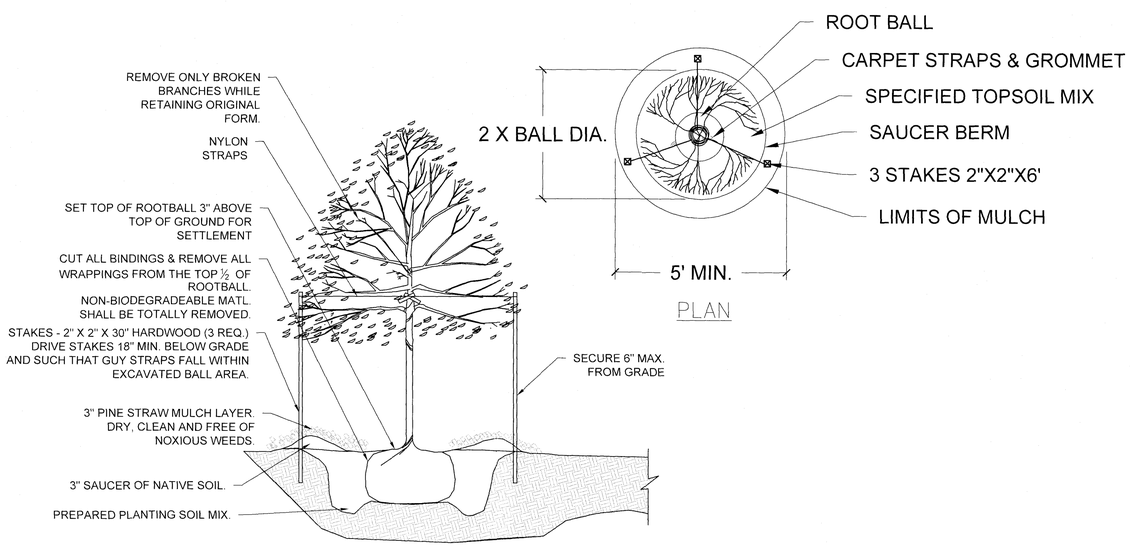
REVISIONS			
NO.	DATE	BY	APPROVED

DESIGNED BY:	TAC
DRAWN BY:	TAC
CHECKED BY:	JDP
APPROVED BY:	MJF
DATE:	08/03/2018

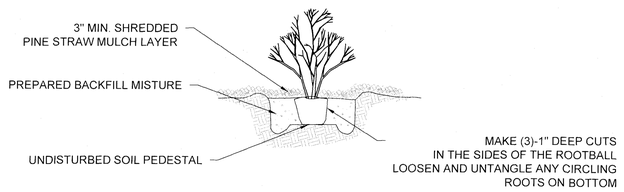
SHEET TITLE:

LANDSCAPE PLAN

SHEET NUMBER:	REV. #
L-101	0
SHEET 8 OF 9 SHEETS	



A TYPICAL TREE PLANTING DETAIL
SCALE: N.T.S.



B CONTAINER SHRUB PLANTING DETAIL
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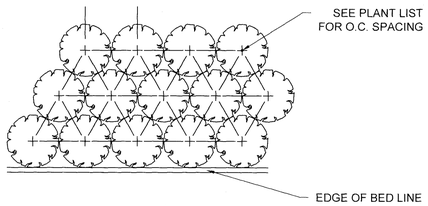

C PLANT SPACING DETAIL
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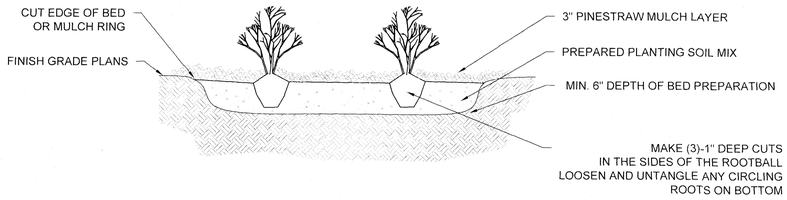

D TYPICAL GROUNDCOVER PLANTING DETAIL
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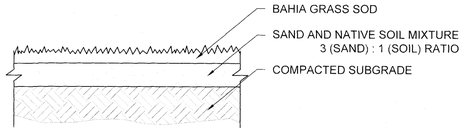

E SOD DETAIL
SCALE: N.T.S.

wood.

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CHARLES A. PHILLIPS
FLORIDA RLA LICENSE NO. 956

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DATE:	08/03/2018

SHEET TITLE:

LANDSCAPE DETAILS

SHEET NUMBER:	REV. #
L-500	0
SHEET 9 OF 9 SHEETS	

Project Benchmark:
Set 5/8" Iron Rod & Cap "AMECFW Traverse"
Northing: 1148953.75'
Easting: 515285.62'
Elevation: 143.45'

WELL & PUMP, CONTROLLER AND RAIN SENSOR (LOCATIONS MAY VARY, MOUNT CONTROLLER TO CONCRETE POSTS WITH KINDORF CHANNEL SYSTEM ATTACHMENTS, MOUNT RAIN SENSOR OUTSIDE RANGE OF IRRIGATION SYSTEM.)

2' overhang
24" DOUBLE OAK
29" OAK
6" OAK
13" OAK
11" OAK
16" OAK
22" OAK
15" DOUBLE OAK
12" PALM
40" MANGO CLUSTER
EXISTING POND DRA #5M

30.0 3 2"
32.6 2 2"
35.6 1 2"
4 30.0 2"
5 30.0 2"
6 32.6 2"
7 34.2 2"

CLOUSER Design
LANDSCAPE ARCHITECTURE AND IRRIGATION DESIGN
P.O. BOX 3164
LAKE PLACID, FL. 33862
TELEPHONE: (863) 464-0210
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SEAL
Chad Clouser
FL.L.A. 6666811

DRAWN BY	CAC
CHECKED BY	CAC
APPROV. BY	CAC

IRRIGATION PLAN
HCSO DETENTION FACILITY EMPLOYEE PARKING
FOR
HIGHLANDS COUNTY BOCC
600 S. COMMERCE AVENUE SEBRING, FL 33870

DATE
12-06-2018

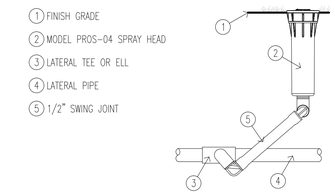
REVISIONS

NO.	DATE	DESCRIPTION	BY

SCALE
1" = 10' - 0"

0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THIS COPY IS NOT TO SCALE

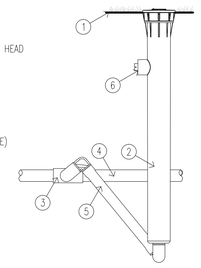
SHEET NUMBER
IR 1 of 2



1 FINISH GRADE
2 MODEL PROS-04 SPRAY HEAD
3 LATERAL TEE OR ELL
4 LATERAL PIPE
5 1/2" SWING JOINT

1 HUNTER PROS-04

NOT TO SCALE 328403.13-04



1 FINISH GRADE
2 MODEL PROS-12 SPRAY HEAD
3 LATERAL TEE OR ELL
4 LATERAL PIPE
5 1/2" SWING JOINT
6 SIDE INLET (DO NOT USE)

2 HUNTER PROS-12

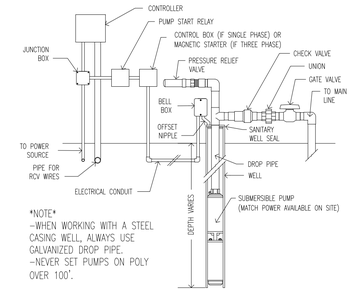
NOT TO SCALE 328403.29-02

1 SLEEVE MARKER
2 FINISH GRADE
3 BACK OF CURB (OR EDGE OF SIDEWALK)
4 TAPE or CAP ENDS OF SLEEVE(S)
5 SCH 40 SLEEVE

NOTE
-GPS LOCATE THE ENDS OF SLEEVE(S) THEN DOCUMENT ON PLANS FOR FUTURE REFERENCE AND ASBUILT PREPARATION.

10 IRRIGATION SLEEVE

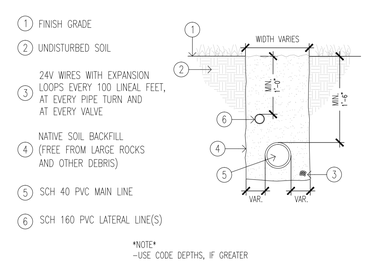
NOT TO SCALE 328409.76-88



NOTE
-WHEN WORKING WITH A STEEL CASING WELL, ALWAYS USE GALVANIZED DROP PIPE.
-NEVER SET PUMPS ON POLY OVER 100'.

11 SUBMERSIBLE PUMP AND WELL LAYOUT

NOT TO SCALE 328409.56-50

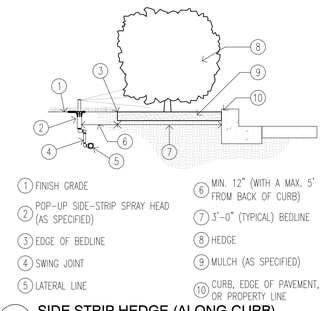


1 FINISH GRADE
2 UNDISTURBED SOIL
3 24V WIRES WITH EXPANSION LOOPS EVERY 100 LINEAL FEET, AT EVERY PIPE TURN AND AT EVERY VALVE
4 NATIVE SOIL BACKFILL (FREE FROM LARGE ROCKS AND OTHER DEBRIS)
5 SCH 40 PVC MAIN LINE
6 SCH 160 PVC LATERAL LINE(S)

NOTE
-USE CODE DEPTHS, IF GREATER

9 IRRIGATION TRENCH (TYPICAL)

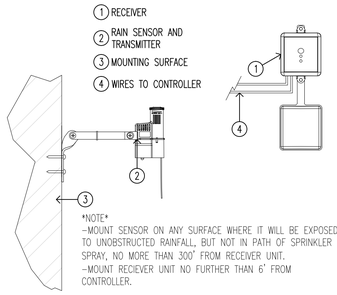
NOT TO SCALE 328409.76-10



1 FINISH GRADE
2 POP-UP SIDE-STRIP SPRAY HEAD (AS SPECIFIED)
3 EDGE OF BEDLINE
4 SWING JOINT
5 LATERAL LINE
6 MIN. 12" (WITH A MAX. 5' FROM BACK OF CURB)
7 3'-0" (TYPICAL) BEDLINE
8 HEDGE
9 MULCH (AS SPECIFIED)
10 CURB, EDGE OF PAVEMENT, OR PROPERTY LINE

3 SIDE STRIP HEDGE (ALONG CURB)

NOT TO SCALE 328403-59

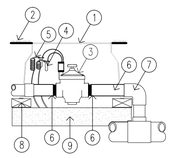


1 RECEIVER
2 RAIN SENSOR AND TRANSMITTER
3 MOUNTING SURFACE
4 WIRES TO CONTROLLER

NOTE
-MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY, NO MORE THAN 300' FROM RECEIVER UNIT.
-MOUNT RECIEVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

7 HUNTER WIRELESS RAIN-CLIK

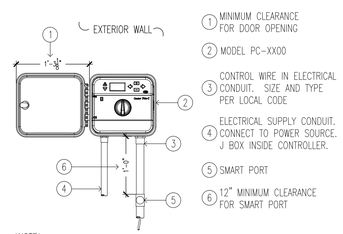
NOT TO SCALE 328409.33-02



1 VALVE BOX
2 FINISH GRADE
3 REMOTE CONTROL VALVE MODEL PGV-151G OR MODEL PGV-201G
4 (2) DBY or DBR CONNECTORS
5 18-24" COILED WIRE
6 SCH 80 T.O.E. NIPPLE
7 MAIN LINE PIPE & FITTINGS
8 BRICK SUPPORTS (4)
9 3/4" MINUS WASHED GRAVEL

5 HUNTER PGV-151G OR PGV-201G

NOT TO SCALE 328406.13-07



1 MINIMUM CLEARANCE FOR DOOR OPENING
2 MODEL PC-XX00
3 CONTROL WIRE IN ELECTRICAL CONDUIT. SIZE AND TYPE PER LOCAL CODE
4 ELECTRICAL SUPPLY CONDUIT. CONNECT TO POWER SOURCE. J BOX INSIDE CONTROLLER.
5 SMART PORT
6 12" MINIMUM CLEARANCE FOR SMART PORT

NOTE
-SPECIFY 3, 6, 9, 12, 15 STATION MODEL CONTROLLER.
-MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL.
-CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 VAC SOURCE.

4 HUNTER PRO-C

NOT TO SCALE 328409.13-11

The Property Owner will be responsible for maintaining irrigation system in a proper functional manner as per plan to insure the health and appearance of all landscaped areas.

I hereby certify that the irrigation plan shown hereon is in substantial compliance with the City of Sebring Development Regulations pertaining to irrigation design.

NOTES:
– Contractor to verify that the water supply will supply approximately 35 GPM @ 40 PSI for spray zones for proper system operation prior to installation. Notify landscape architect prior to installation if this is impractical.
– Unlabled lateral pipe to be the minimum lateral size at run ends.

IRRIGATION INSTALLATION SPECIFICATIONS

Irrigation contractor is responsible for verifying that the water source is capable of providing the gallons per minute of volume and pounds per square inch of pressure required for the irrigation system to function as designed prior to commencing installation.

Coordinate the irrigation system installation with the landscape contractor or landscaping plan to avoid conflicts between irrigation heads, piping, etc. and palms and tree locations whenever possible.

All main line pipe is to have a minimum cover of 18" of backfill measured from the top of the pipe and all lateral lines are to have a minimum cover of 12" of backfill measured from the top of the pipe unless otherwise specified. Turns and termination in the main line shall be located utilizing at a minimum a GPS WASS system and documented on the plans for future locating.

All backfill is to be fine grained and free from stone, rock, etc. larger than 2" in diameter that may damage or cut the pipe. Take care not to damage or deform the pipe when backfilling and compacting.

Assure that all cuts are made squarely and that all pipes and fittings are clean and free from PVC shavings and debris prior to cementing. Be sure to fully engage all joints when cementing.

Do not lay marking flags on any hardscape surface such as concrete sidewalks, brick pavers, etc. to avoid causing rust stains. Remove all flags upon conclusion of their usefulness and collect them for future use or properly dispose of them. Irrigation contractor is responsible for the removal or correction of any rust stains caused by the marking flags.

Flush all pipes and body assemblies prior to sprinkler head installation. If installing nozzles or body assemblies while flushing under pressure, start at the heads nearest the valve and work toward the end of the lateral run to force debris toward the end. Flush only one zone at a time and allow adequate time for the system to flush prior to installing nozzles or body assemblies. If the Irrigation Contractor is found to be flushing multiple zones at a time or not allowing adequate time for each zone to properly flush, all nozzles and body assemblies shall be removed, flush caps reinstalled on spay heads and the entire system will be required to be flushed again at the contractor's expense.

All "Two Wire" systems shall be voltage checked at the clock, splices, grounding modules and decoders and the voltage shall be recorded on the plans for each item.

After installation, field adjust the entire system to assure proper 100% head to head coverage and to minimize overspray onto paved surfaces. Assure that all heads are a minimum of 12" from any building and that they are not directly spraying onto the building.

Utilizing at a minimum a GPS WASS system, document all major irrigation component locations. These include valves or valve clusters, any underground sensors, main line turns, wire splices, sleeves, and any other components that might aid in future system maintenance, repairs or modifications.

IRRIGATION GENERAL SPECIFICATIONS

Install irrigation system in accordance with all applicable codes and ordinances regarding materials, methods of work and disposal of waste material. Obtain and pay for all required permits and inspections.

Visit the site prior to work commencing and examine the conditions under which the work is to be performed. Do not proceed with the work until all unsatisfactory conditions have been rectified.

Locate and protect all existing underground and overhead utilities, benchmarks, control points and monuments within the work area. Repairs made due to damage to any of these items will be made at the irrigation contractor's expense. If incorrectly located utilities are encountered, contact the applicable utility company to receive any further instructions or assistance that may be needed.

Take all measures necessary to protect all existing paving, buildings, utilities, etc. on and adjacent to the site. Repair made due to damage to any of these items will be made at the irrigation contractor's expense.

It is the responsibility of the contractor to satisfy themselves as to the accuracy of the quantities on the plan. If there are any discrepancies between the plan and the material list this should be addressed prior to beginning work. In any instance that a discrepancy does occur between the plan and material list, the plan rules. No extra compensation will be allowed on account of discrepancies between the plan and material list.

It is the responsibility of the contractor to order or provide all material, equipment, labor, etc. necessary to complete the work according to the plans and specifications and to provide a fully functioning automatic irrigation system.

Supply the owner with all instruction sheets, maintenance manuals, and parts sheets covering all of the operating and electrical equipment installed on the job. Also furnish the owner with keys to any locking items installed on the job.

Supply the irrigation designer with a set of asbuilt plans clearly indicating GPS locations and any changes made to the irrigation plans such as main line routing, valve locations or any other field adjustments that were necessary for a proper installation.

Warranty the irrigation system for a period of one year after acceptance for workmanship and material defects. The irrigation system must be properly maintained during this time. This includes system adjustments and replacement of any damaged parts or broken pipe immediately upon discovery. The warranty becomes void in cases of vandalism, fire, lightening strikes or owner negligence. Any repair desired or required due to any of these unwarranted causes will be at the owner's expense.

IRRIGATION MATERIAL SPECIFICATIONS

Irrigation contractor shall use the items specified in the material list or specifications for all bidding, ordering and installation. Do not substitute items or change sizes of irrigation components or piping without prior written consent from the irrigation designer. Unauthorized substitutions or under sizing of components or piping will constitute an immediate failure upon inspection and shall be replaced with the item of the correct size or manufacturer at the contractor's expense.

All material shall be installed according to manufacturer's specifications unless otherwise noted.

Securely install the specified controller in the location shown on the irrigation plan or in a location coordinated with the owner or their representative. The owner is responsible for providing all necessary electrical for the controller.

All controllers shall be equipped with a rain sensor device that will override the irrigation cycle of the system when adequate rainfall has occurred. This sensor shall be properly wired into the controller, in the on position, outside the range of the irrigation system and mounted in an area to receive rainfall.

All controllers utilized in coordination with a well must be supplied with an accompanying pump start relay and a control box if single phase or a magnetic starter if three phase. The irrigation contractor shall coordinate the phasing, voltage, disconnect location, amps, etc. with the owner or their representative prior to ordering the pump. See well and pump specifications in the material list to determine the diameter and type of the well and the horsepower and type of pump. The irrigation contractor is responsible for verifying that the specified well and pump is capable of providing the gallons per minute of volume and pounds per square inch of pressure required for the irrigation system to function as designed prior to commencing installation.

All controllers utilized in coordination with a continually pressurized water source such as a city water meter must be supplied with an accompanying master valve and appropriately sized backflow-preventer that adheres to all local ordinances. The irrigation contractor is responsible for verifying that the water source is capable of providing the gallons per minute of volume and pounds per square inch of pressure required for the irrigation system to function as designed prior to commencing installation.

All valves are to be electric valves of the brand specified in the irrigation plan material list and shall be sized according to their location on the plan and their accompanying key. All valves are to be installed in a minimum 12" X 18" green plastic valve box unless otherwise specified. The top of the box is to be flush with finished grade. All valve clusters are to be installed with a capped stub out for ease of future expansion. Number each valve box according to the valve number found on the irrigation plans. Each valve or valve cluster shall also be located utilizing at a minimum a GPS WASS system and documented on the plans for future locating.

All remote valve control wire shall be 14-1 UF direct burial wire for use with 24 VAC applications. Place wire under pipes whenever possible to help avoid accidental cutting. Common wire is to be white. Control wire is to be red. Run two blue wires from the controller to the farthest valve in each direction for spares.

All standard remote control valve wire that utilizes a common wire and multiple hot wires shall be spiced to the electric valves using DBY or DBR splice kits of the appropriate size. All "Two-Wire" valve wire shall be spliced to the Decoders using DBY-6 or DBR-6 splice kits of the appropriate size.

Provide a minimum of 24" expansion coils in the wire at every valve connection, at every sharp turn and at 100' intervals along straight runs of wire.

All irrigation pipes and control wires passing under sidewalks, drives or other paved or hard surfaces shall be placed in a schedule 40 PVC sleeve.

All main line pipe shall be schedule 40 PVC and all lateral pipes shall be class 160 PVC unless specified differently in the irrigation plan material list.

All rotor heads are to be of the brand specified in the irrigation plan material list and the nozzle shall be sized and the head adjusted according to their location on the plan.

All spray heads are to be of the brand specified in the irrigation plan material list and their spray pattern and radius shall match their location found on the plan.

All sprinkler heads shall be in a plumb or vertical position as per their detail and all pop up sprinklers shall be affixed to swing joints or funny pipe limited to a length of 18" unless otherwise noted.

IRRIGATION SLEEVE SPECIFICATIONS

Irrigation sleeves shall be schedule 40 PVC pipe. All fittings shall be schedule 40.

All cuts to the irrigation sleeves shall be made squarely and all connections between pipes shall be fully engaged to eliminate any inconsistent gaps at fittings or bell end connections that can cause pipes passing through to catch.

Irrigation sleeves shall be installed a minimum of 18" below the paving they are passing under and shall extend 18" beyond the paving or as per code if more stringent.

Irrigation sleeves shall be installed where shown on the plans. If the irrigation sleeves cannot be installed where shown on the plans, they shall be field adjusted. This adjustment must still allow access to the area the irrigation sleeves where intended to service. This adjustment shall be documented on the plans for future locating of the irrigation sleeves and asbuilt preparation. Irrigation sleeves shown directly adjacent to each other on the plans shall be placed in a single trench.

Irrigation sleeves shall be installed at the size shown on the plans. If no size is indicated on the plans, the irrigation sleeve shall be a minimum of twice the diameter of the pipe passing through it. This will allow for adequate room in the irrigation sleeve for the pipe passing through it and any necessary control wires. If it is believed that the diameter of the irrigation sleeve is not sufficient to allow all of the required control wires to pass through along with the piping, an additional irrigation sleeve shall be added at a size sufficient for all necessary control wire to pass through.

The ends of the irrigation sleeves shall be marked with pipe, boards, etc. prior to backfilling the trench for ease of future locating. The ends of the irrigation sleeves shall also be located utilizing at a minimum a GPS WASS system and documented on the plans for future locating in the event the physical marker is removed or destroyed during site work. The GPS locations shall also be documented on the asbuilts to aid in locating the irrigation sleeves at any point in the future.

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