SOUTHWEST WATER RECLAMATION FACILITY RAMP





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UGARTE & ASSOCIATES, INC. ARCHITECTURE PLANNING

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> > **SOVER SHEET**

SOUTHWEST WATER

REVISIONS

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PARET. DWG

SOCIATES

PARIGHT: UGARTE 08/13/15

DRAWN BY: BT

DRAWN BA: DB/CO

DATE: 08/13/15

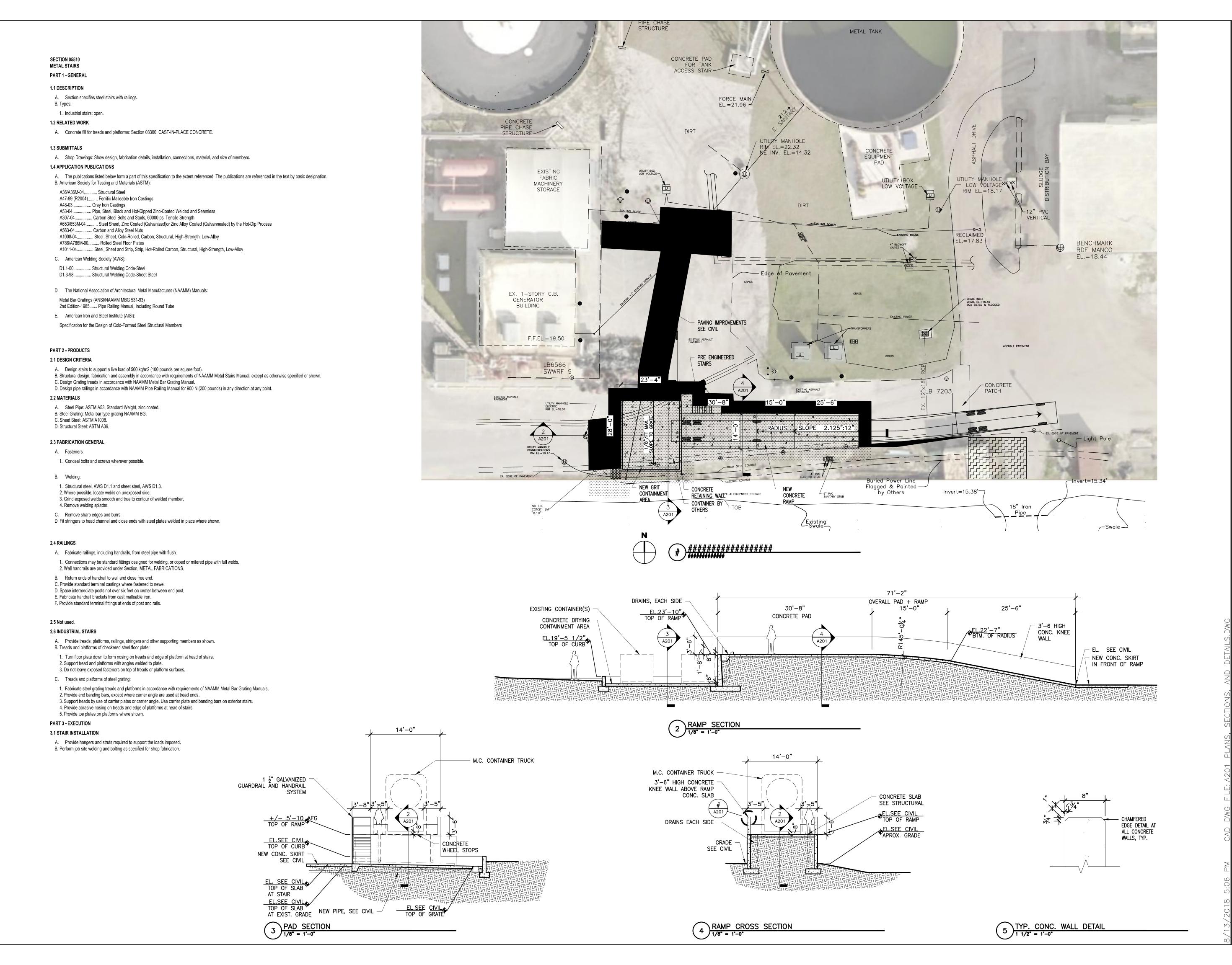
DRAWN BY: BT

DRAWN BY: BT

DB/CO

CARLOS D. UGARTE LIC. NO. AR-0010725 SHEET

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> PLANS, SECTIONS, AN DETAILS

SOUTHWEST WATER
RECLAMATION FACILITY

PROJECT NO: 2017-61
DATE: 08/13/18
DRAWN BY: BL
CHK'D BY: DB/CU

CARLOS D. UGARTE

SHEET

A201

THE EXPRESS, WRITTEN PERMISSION OF HEES & ASSOCIATES, INC.

GENERAL NOTES STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT

DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO INSURE SAFETY OF THE BUILDING AND ITS COMPONENTS DURING ERECTION. THIS INCLUDES THE ADDITION OF NECESSARY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS.

THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2017. THE FOLLOWING SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

> LIVE LOAD - 100 psf. DEAD LOAD - SELF WEIGHT

Vult = 150 MPH, Vasd =116 MPH. EXPOSURE C, RISK CATEGORY II, Cf=X.X, Pasd=XX psf

SEISMIC (FLORIDA):

IN ACCORDANCE WITH CHAPTER 1 SECTION 101.2 OF THE 2017 FLORIDA BUILDING CODE, SEISMIC AND SNOW LOADS WERE NOT UTILIZED FOR THIS PROJECT: "CODE REQUIREMENTS THAT ADDRESS SNOW LOADS AND EARTHQUAKE LOADS ARE PERVASIVE; THEY ARE LEFT IN PLACE BUT SHALL NOT BE UTILIZED OR ENFORCED BECAUSE FLORIDA HAS NO SNOW LOAD OR EARTHQUAKE THREAT."

SHOP DRAWING REVIEW:

SHOP DRAWINGS WILL BE PROVIDED FOR ALL WORK AND WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTH, ELEVATIONS, DIMENSIONS, ETC. SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND OWNER'S REP PRIOR TO SUBMITTAL TO THE ARCHITECT/ENGINEER. DRAWINGS SUBMITTED WITHOUT REVIEW WILL BE RETURNED UNCHECKED. SHOP DRAWING SUBMITTALS, IF NOT SUBMITTED ELECTRONICALLY, SHALL INCLUDE THREE SETS OF PRINTS ONE SET OF PRINTS WILL BE RETAINED BY THE ENGINEER, ONE BY THE ARCHITECT, ONE BY THE LOCAL BUILDING DEPARTMENT (WHERE REQUIRED) AND THE CONTRACTOR SHALL MAKE PRINTS AS REQUIRED FOR DISTRIBUTION. IN ALL INSTANCES THE CONTRACT DOCUMENTS WILL GOVERN OVER THE SHOP DRAWINGS UNLESS OTHERWISE SPECIFIED IN WRITING BY THE ENGINEER.

SHOP DRAWINGS FOR SPECIALTY ENGINEERED PRODUCTS: ALL SPECIALTY ENGINEERED PRODUCTS OR SYSTEMS REQUIRE SIGNED & SEALED CALCULATIONS AND FABRICATION AND ERECTION DRAWINGS PREPARED BY A DELEGATED ENGINEER.

THIS INCLUDES BUT IS NOT LIMITED TO CANOPIES AND THEIR FOUNDATIONS, SPECIALTY PILE FOUNDATION SYSTEMS, PRE-ENGINEERED TRUSSES, ICF WALL SYSTEMS, ALL LIGHT GAUGE METAL STUD FRAMING SYSTEMS, ALUMINUM WALL SYSTEMS, GLAZED CURTAIN WALLS, PREFABRICATED STEEL STAIRS & RAILINGS. ARCHITECTURAL PRECAST CONCRETE ELEMENTS. STRUCTURAL PRECAST OR TILT-UP SYSTEMS. GLASS FIBER REINFORCED CONCRETE PANEL SYSTEMS, OPEN WEB STEEL JOISTS, STRUCTURAL STEEL CONNECTIONS REQUIRING ENGINEERING, TILT-WALL ERECTION DRAWINGS, GLULAM BEAMS, TECTUM PLANKS, PEMB, ETC.

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS NECESSARY FOR PROPER FABRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

SHOP DRAWINGS AND CALCULATIONS SHALL BE PREPARED UNDER THE DIRECT SUPERVISION AND CONTROL OF THE DELEGATED ENGINEER. SHOP DRAWINGS AND CALCULATIONS REQUIRE THE IMPRESSED SEAL, DATE AND SIGNATURE OF THE DELEGATED ENGINEER.

COMPUTER PRINTOUTS ARE AN ACCEPTABLE SUBSTITUTE FOR MANUAL COMPUTATIONS PROVIDED THEY ARE ACCOMPANIED BY SUFFICIENT DESCRIPTIVE INFORMATION TO PERMIT THEIR PROPER EVALUATION. SUCH DESCRIPTIVE INFORMATION SHALL BEAR THE IMPRESSED SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AS AN INDICATION THAT HE/SHE HAS ACCEPTED RESPONSIBILITY FOR THE RESULTS. SEPIAS DO NOT REQUIRE SIGNATURE AND SEAL. THE STRUCTURAL ENGINEER WILL RETAIN ONE SIGNED AND SEALED BLUELINE PRINT FOR RECORD.

DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS LIMITED TO VERIFYING THE FOLLOWING:

- a) THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
- b) THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.
- c) THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL
- d) THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL NOT BE REVIEWED.

FOUNDATIONS: SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL

RECOMMENDATIONS AND INSTALLATION PROCEDURES.

REPORT No. 18-7054

BE MADE).

PREPARED BY: ARDAMAN & ASSOCIATES, INC. TITLED: SUBSURFACE SOIL EXPLORATION AND GETECHNICAL ENGINEERING EVALUATION PROPOSED RAMP SOUTHWEST WASTEWATER RECLAMATION FACILITY, 66TH STREET WEST, BRADENTON, MANATEE COUNTY, FLORIDA.

DATED: APRIL 3, 2018, REVISED JUNE 6, 2018. THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS FOUNDATION DESIGN IS BASED ON A SOIL BEARING PRESSURE OF 2,000

FORMWORK AND SHORING: NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED AT LEAST TWO THIRDS OF THE 28 DAY DESIGN STRENGTH. DESIGN,

ERECTION AND REMOVAL OF ALL FORMWORK, SHORES AND RESHORES SHALL MEET THE REQUIREMENTS SET FORTH IN ACI STANDARDS 347 AND

PLUMBING SLEEVES: SLEEVE LOCATIONS AND SIZES MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. MINIMUM SLEEVE SPACING SHALL BE THREE DIAMETERS CENTER TO CENTER OF THE LARGER SLEEVE OR 6" CLEAR BETWEEN SLEEVES, WHICHEVER IS GREATER. SLEEVES OR GROUPS OF

SLEEVES 16 INCH IN DIAMETER AND LARGER SHALL BE TREATED AS A SLAB OPENING AND REINFORCED PER TYPICAL OPENING REINFORCING

EMBEDDED CONDUITS:

LOCATIONS AND SIZES OF CONDUIT MUST BE APPROVED BY THE ENGINEER PRIOR TO PLACEMENT. WITHIN SLABS, BEAMS OR WALLS, CONDUIT SHALL OCCUPY ONLY THE MIDDLE ONE THIRD OF THE MEMBER DEPTH OR THICKNESS. MAXIMUM CONDUIT O.D. FOR SINGLE CONDUITS OR SUM OF O.D.'S FOR MULTIPLE CONDUITS THAT CROSS SHALL BE NO LARGER THAN ONE THIRD THE SLAB DEPTH. PARALLEL CONDUITS SHALL BE SPACED WITH A MINIMUM OF 3 DIAMETERS CLEAR. CONDUITS SHALL BE A MINIMUM OF ONE DIAMETER AWAY FROM AND SHALL NOT INTERFERE WITH OR DISPLACE ANY REINFORCING. CONDUIT SHALL NOT BE TIED TO REINFORCING. CONDUITS SHALL NOT OCCUR WITHIN COLUMN ZONES OF SLABS AND OR TRANSFER GIRDERS. CONDUIT PLACEMENT SHALL NOT IMPAIR THE STRENGTH OF THE CONSTRUCTION AS JUDGED BY THE ENGINEER.

REINFORCING STEEL:

SHALL BE ASTM A615 GRADE 60 DEFORMED BARS. FREE FROM OIL. SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL BENDING DIAGRAM AND PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO COMMENCING FABRICATION.

TO CONFORM TO ASTM A-185, FREE FROM OIL, SCALE AND RUST AND PLACED IN ACCORDANCE WITH THE TYPICAL PLACING DETAILS OF ACI STANDARDS AND SPECIFICATIONS. MINIMUM LAP SHALL BE ONE SPACE PLUS TWO INCHES. USE OF FLAT MANUFACTURED SHEETS IS RECOMMENDED.

SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE

3000 psi FOR FOUNDATIONS 5000psi FOR ALL OTHER CONCRETE

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

SUBMIT PROPOSED MIX DESIGN WITH RECENT FIELD CYLINDER OR LAB TESTS FOR REVIEW PRIOR TO USE. MIX SHALL BE UNIQUELY IDENTIFIED BY MIX NUMBER OR OTHER POSITIVE IDENTIFICATION. MIX SHALL MEET THE REQUIREMENTS OF ASTM C33 FOR COARSE AGGREGATE. CONCRETE SHALL COMPLY WITH THE REQUIREMENTS OF ASTM STANDARD C94 FOR MEASURING, MIXING, TRANSPORTING, ETC. CONCRETE TICKETS SHALL BE TIME STAMPED WHEN CONCRETE IS BATCHED. THE MAXIMUM TIME ALLOWED FROM THE TIME THE MIXING WATER IS ADDED UNTIL IT IS DEPOSITED IN ITS FINAL POSITION SHALL NOT EXCEED ONE AND ONE HALF (1-1/2)HOURS. IF FOR ANY REASON THERE IS A LONGER DELAY THAN THAT STATED ABOVE, THE CONCRETE SHALL BE DISCARDED. IT SHALL BE THE RESPONSIBILITY OF THE TESTING LAB TO NOTIFY THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR OF ANY NONCOMPLIANCE WITH THE ABOVE. SLABS SHALL BE CURED USING A DISSIPATING CURING COMPOUND MEETING ASTM STANDARD C309 TYPE 1-D AND SHALL HAVE A FUGITIVE DYE. THE COMPOUND SHALL BE PLACED AS SOON AS THE FINISHING IS COMPLETED OR AS SOON AS THE WATER HAS LEFT THE UNFINISHED CONCRETE. SCUFFED OR BROKEN AREAS IN THE CURING MEMBRANE SHALL BE RECOATED DAILY. CALCIUM CHLORIDES SHALL NOT BE UTILIZED; OTHER ADMIXTURES MAY BE USED ONLY WITH THE APPROVAL OF THE ENGINEER.

CONSTRUCTION OR CONTROL JOINTS SHALL BE PROVIDED IN SLABS ON GRADE SO THAT THE MAXIMUM AREA OF THE SLAB BETWEEN JOINTS SHALL BE 225 SQUARE FEET, OR AS SHOWN ON THE PLANS. SAW CUT CONTROL JOINTS SHALL BE MADE AS SOON AS SLAB WILL SAFELY SUPPORT MEN AND EQUIPMENT AND THE SLAB WILL NOT BE DAMAGED BY EQUIPMENT, BUT NO LATER THAN 24 HOURS. ASPECT RATIO (LONGSIDE TO SHORTSIDE OF CONCRETE AREA) SHALL NOT EXCEED 1.5. NO EMBEDDED ANGLES OR OTHER FIXED METAL ITEMS SHALL EXTEND THROUGH JOINTS, UNLESS OTHERWISE NOTED. EMBEDDED ANGLES AND OTHER FIXED METAL ITEMS SHALL BE CONTINUOUS BETWEEN CONCRETE JOINTS, UNLESS OTHERWISE NOTED. ENGINEER SHALL APPROVE LOCATION OF ALL JOINTS NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR APPROVAL.

CONCRETE MIX DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICATING WHERE EACH PARTICULAR MIX IS TO BE PLACED WITHIN THE STRUCTURE. IF ACCEPTED, PEA ROCK PUMP MIX USE IS LIMITED TO VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.

CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 5 OF ACI 318.

WATER/CEMENT RATIO FOR CONCRETE AT EXTERIOR BALCONIES OR CONCRETE EXPOSED TO WEATHER SHALL NOT EXCEED 0.40 BY WEIGHT.

CONCRETE TESTING: AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

a)ASTM C143 "STANDARD TEST METHOD FOR SLUMP OF PORTLAND CEMENT CONCRETE." MAXIMUM SLUMP SHALL BE 4 TO 6 INCHES.

b)ASTM C39 "STANDARD TEST METHOD FOR COMPRESSIVE STRENGTH OF CYLINDRICAL CONCRETE SPECIMENS." A SEPARATE TEST SHALL BE CONDUCTED FOR EACH CLASS, FOR EVERY 50 CUBIC YARDS (OR FRACTION THEREOF), PLACED PER DAY. REQUIRED CYLINDER(S) QUANTITIES AND TEST AGE AS FOLLOWS:

1 AT 7 DAYS 2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHIEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARDED.

PENETRATIONS:

NO PENETRATIONS SHALL BE MADE IN ANY STRUCTURAL MEMBERS OTHER THAN THOSE LOCATED ON THE STRUCTURAL DRAWINGS WITHOUT PREVIOUS APPROVAL OF THE ENGINEER. CONTRACTOR SHOULD SUBMIT SLAB DRAWINGS INDICATING ANY CONCENTRATION OF PIPES, OPENINGS OR PENETRATIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS PRIOR TO CONCRETE POURS.

<u>POST-INSTALLED ANCHORS:</u>

POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN FLORIDA. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

CONCRETE ANCHORS:

MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPRIVED MECHANICAL ANCHORS INCLUDE:

- SIMPSON STRONG-TIE 'STRONG-BOLT' (ICC-ES ESR-1771) 2. SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-2713) ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS. AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER EACH CERTIFIED INSTALLER WILL BE ISSUED A CERTIFICATION CARD TO VERIFY THEIR TRAINING AND SHALL BE REQUIRED TO CARRY THEIR CERTIFICATION CARD ON THEIR PERSON. CERTIFIED INSTALLERS SHALL PROVIDED WRITTEN DOCUMENTATION THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC306. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:
- SIMPSON STRONG-TIE 'SET-XP' (ICC-ES ESR-2508) 2. HILTI HIT-RE 500 V3 (ICC-ES ESR-2322)

MASONRY ANCHORS: ANCHORAGE TO SOLID-GROUTED CONCRETE MASONRY.

MECHANICAL AND CONCRETE SCREW ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES ACO1 OR AC106, RESPECTIVELY. PRE-APPROVED MECHANICAL AND CONCRETE SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'WEDGE-ALL; (ICC-ES ESR-1396) SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS FOR USE IN SOLID-GROUTED CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC58. PRE-APPROVED ADHESIVE ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772) SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ESR-1056) HILTI HIT HY70 (ICC-ES ER-5193)

ANCHORAGE TO HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY

SCREW ANCHORS FOR USE IN HOLLOW CONCRETE MASONRY SHALL HAVE BEEN TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-ES AC106. PRE-APPROVED SCREW ANCHORS INCLUDE:

SIMPSON STRONG-TIE 'TITEN-HD' (ICC-ES ESR-1056)

ADHESIVE ANCHORS WITH SCREEN TUBES FOR USE IN HOLLOW CONCRETE MASONRY/UNREINFORCED CLAY BRICK MASONRY SHALL BF TESTED AND QUALIFIED IN ACCORDANCE WITH ICC-LS AC58 OF AC60, AS APPROPRIATE. THE APPROPRIATE SCREEN TUBE SHALL BE USED AS RECOMMENDED BY THE ADHESIVE MANUFACTURER. PRE-APPROVED ADHESIVE ANCHORS WITH SCREEN TUBES INCLUDE:

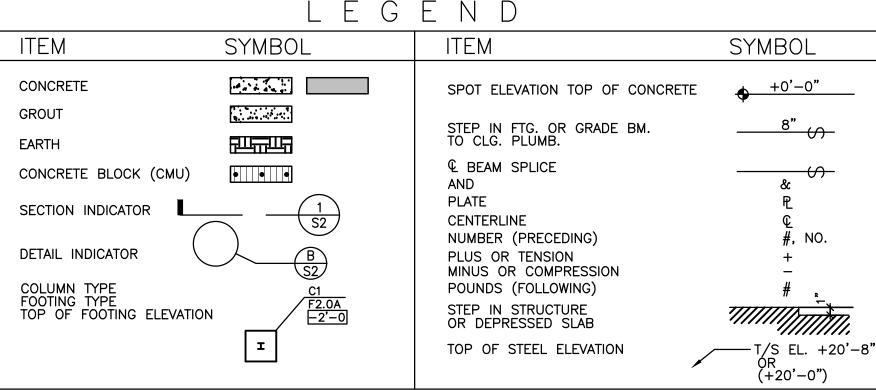
SIMPSON STRONG-TIE 'SET' (ICC-ES ESR-1772) SIMPSON STRONG-TIE 'ACRYLIC-TIE' (ICC-ES ER-5791) SIMPSON STRONG-TIE 'E' (ICC-ES ER-4945)

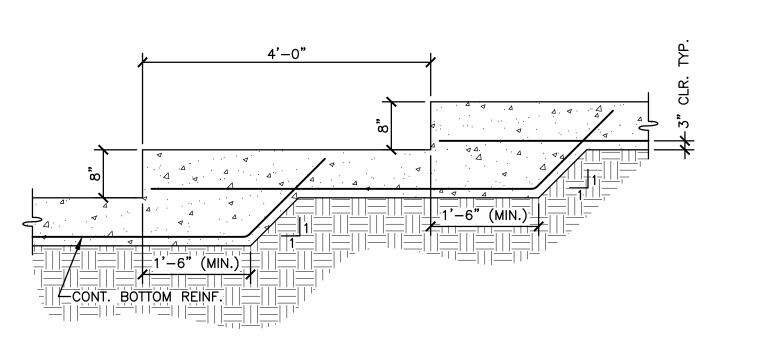
POWER-ACTUATED FASTENERS (PAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2138) OR ENGINEER-APPROVED EQUAL.

GAS-ACTUATED FASTENERS (GAF) SHALL BE BY SIMPSON STRONG-TIE (ICC-ES ESR-2811) OR ENGINEER-APPROVED EQUAL.

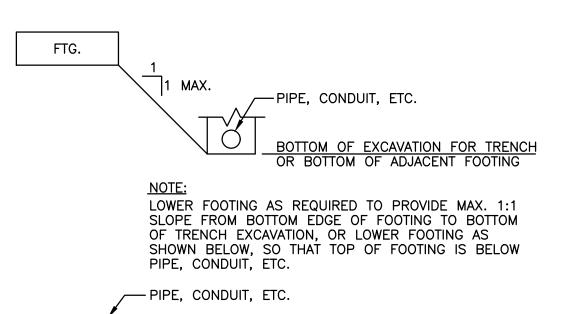
ANCHOR BOLT KIPS PER SQUARE FOOT A.F.F. ABOVE FINISHED FLOOR POUND ALUMINUM LLH LONG LEG HORIZONTAL ALT. **ALTERNATE** LLV LONG LEG VERTICAL MAX. MAXIMUM **APPROX APPROXIMATI** MEZZ. MEZZANINE APPVD. APPROVED MFR. MANUFACTURER MINIMUM MIN. **AVERAGE** AVG. MISC. MISCELLANEOUS BLDG BUILDING NEAR SIDE BOTT. воттом N.T.S. NOT TO SCALE CENTER LINE NUMBER OR REBAR SIZE CL. OR CLR. CLEAR OR CLEARANCE Ö.H OPPOSITE HAND CONN. CONNECTION ON CENTER o.c. CMU CONCRETE MASONRY UNIT P.A.F. POWDER ACTUATED FASTENER CONST CONSTRUCTION PLF POUNDS PER LINEAR FOOT CONT. CONTINUOUS PCF POUNDS PER CUBIC FOOT CONSTRUCTION OR CONTROL JOINT PCI POUNDS PER CUBIC INCH CONC. **CONCRETE** PSF POUNDS PER SQUARE FOOT COL. COLUMN POUNDS PER SQUARE INCH CTR. CENTER P.T. POST TENSIONED DIAG. DIAGONAL PROJ. PROJECTION Ø OR DIAM. **DIAMETER** REV. REVISION DIM. DIMENSION REFERNCE REF. DWG. DRAWING REINF. REINFORCING DBA DEFORMED BAR ANCHOR REQ'D REQUIRED E.E. EACH END SIM. SIMILAR EA. EACH SCHED. SCHEDULE EACH FACE SLH SHORT LEG HORIZONTAL EXPANSION JOINT SLV SHORT LEG VERTICAL E.S. EACH SIDE SPEC. SPECIFICATION E.W. EACH WAY SQ. SQUARE ELEV. **ELEVATION** SQUARE FEET ELEC. ELECTRICAL S.S. STAINLESS STEEL EMBED. EMBEDMENT STANDARD STD. = OR EQ. **EQUAL** STIFF. STIFFENER EQUIP **EQUIPMENT** STL. STEEL EXIST. EXISTING STRUCT STRUCTURAL EXP. **EXPANSION** SYM. **SYMMETRICAL** EXT. **EXTENDED** T.E. THICKENED EDGE F.F. FINISHED FLOOR THD. THREAD FLR. **FLOOR** THK. THICK FEET OR FOOT TREAD TRD. F.S. FAR SIDE TOP OF WALL T/WALL FOOTING TEMP. **TEMPORARY** FOUNDATION FOUND. THRU THROUGH YIELD STRENGTH Fy OR fy T.O.S. TOP OF STEEL 28 DAY COMPRESSIVE STRENGTH TYP. **TYPICAL** GAUGE OR GAGE U.N.O. UNLESS NOTED OTHERWISE GALV. GALVANIZED W.C.J. WALL CONTROL JOINT GEN. GENERAL WT. WEIGHT HGT. HEIGHT WITHOUT w/o HORIZ. HORIZONTAL INCH OR INCHES WELDED WIRE FABRIC WWF ISOLATION JOINT KIPS (1000#) KIPS PER SQUARE INCH EGEND

ABBREVIATIONS

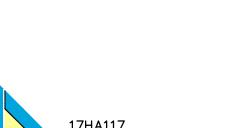




TYPICAL STEPPED FOOTING SECTION SCALE: $\frac{3}{4}$ "=1'-0"



TYP. FOUNDATION INFLUENCE DETAIL SCALE: $\frac{3}{4}$ "=1'-0"



VOSB

17HA117 HEES & ASSOCIATES, INC. 1381 Fifth Street · Sarasota, Florida 34236 Telephone: (941) 955-4555 Fax: (941) 955-9333 karl@heesassociates.com · www.heesassociates.com C.O.A. #27043 © 2018- Hees & Associates, Inc. All rights reserved.

TO THE BEST OF THE ENGINEER-OF-RECORD'S KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE DOCUMENTS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

DO NOT SCALE OFF OF THESE DRAWINGS. LAYOUT THE BUILDING USING ALL APPLICABLE CONTRACT DRAWINGS. BUILDING DIMENSIONS AND THE LOCATION OF ALL STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO SLAB EDGES, WALLS, COLUMNS, OPENINGS AND DEPRESSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO LAYOUT OF THE BUILDING. RESOLVE ANY DISCREPANCIES.



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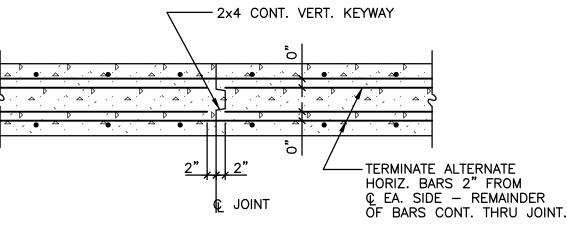
0.7 **REVISIONS**

PROJECT NO: 2015-35 6/5/18 ∞ DATE: Ш DRAWN BY: DEM CHK'D BY: KH

SHEET

TYP. TRENCH DRAIN

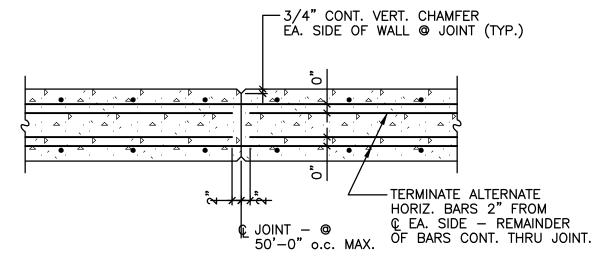
NOT TO SCALE



NOTE: REINF. IN BOTH FACES SHOWN - REINF. IN ONE FACE SIMILAR.

CONSTRUCTION JOINT IN CONCRETE WALLS

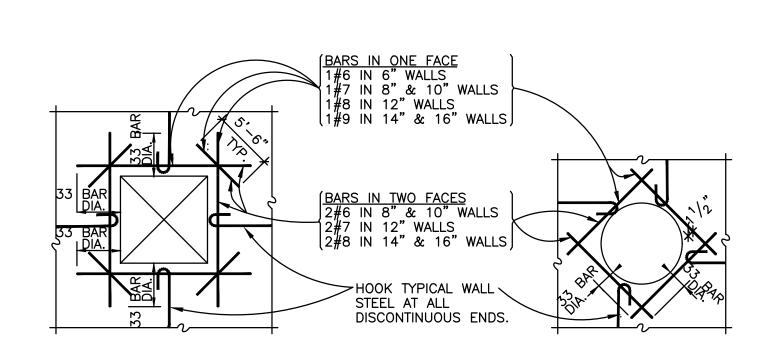
NOT TO SCALE



NOTE: REINF. IN BOTH FACES SHOWN - REINF. IN ONE FACE SIMILAR.

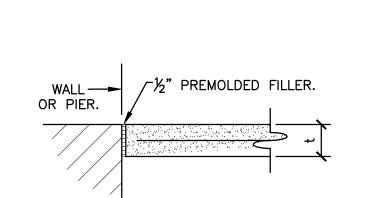
CONTROL JOINT IN CONCRETE WALLS

NOT TO SCALE



REINFORCEMENT AROUND OPENINGS IN CONCRETE WALLS

NOT TO SCALE



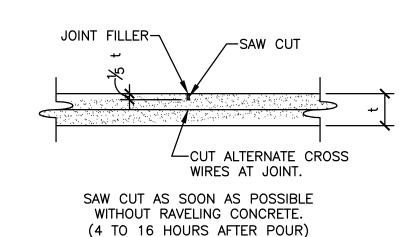
ISOLATION JOINT (IJ)

SCALE: 1"=1'-0"

LAP SP	LICE SCHEDULE
NO. BAR	LAP LENGTH(INCHES)
#3	22
#4	29
# 5	36
#6	43
#7	63
#8	72

LAP SPLICE SCHEDULE NOTES:

- 1. GRADE 60 REINFORCEMENT 2. f'c = 3000 psi
- 3. CLEAR SPACING OF BARS BEING SPLICED NOT LESS THAN BAR DIAMETER.
- 4. CLEAR COVER IN ACCORDANCE WITH ACI 318 5. STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM.

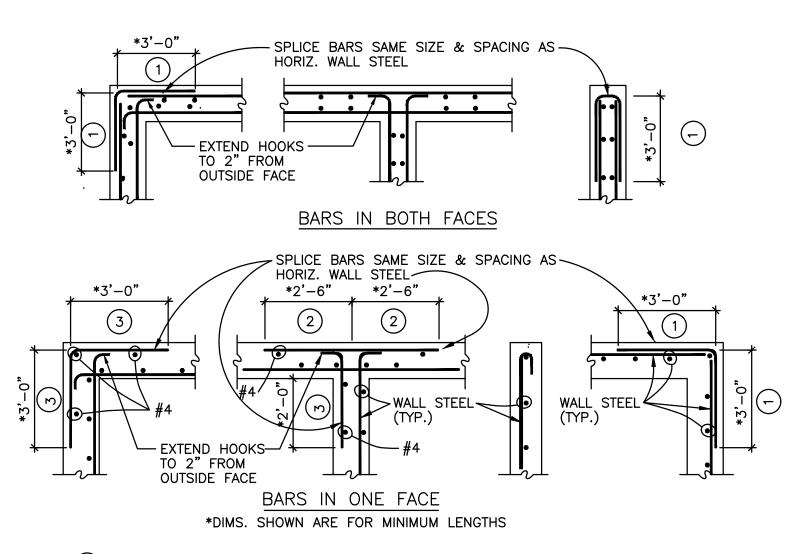


CONTROL JOINT (C.J.) SCALE: 1"=1'-0"

LAP SPLICE SCHEDULE	
NO. BAR	LAP LENGTH(INCHES)
#3	17
#4	22
#5	28
#6	34
#7	49
#8	56

LAP SPLICE SCHEDULE NOTES:

- 1. GRADE 60 REINFORCEMENT
- f'c = 5000 psi. CLEAR SPACING OF BARS OR WIRES BEING DEVELOPED OR SPLICED NOT LESS THAN BAR
- 4. CLEAR COVER IN ACCORDANCE WITH ACI 318 5. STIRRUPS OR TIES THROUGHOUT DEVELOPMENT LENGTH NOT LESS THAN THE CODE MINIMUM.



34 BAR DIAMETER

-SLAB REINF. CONT.

THROUGH JOINT.

METAL KEY JOINT

CONSTRUCTION JOINT (C.J.)

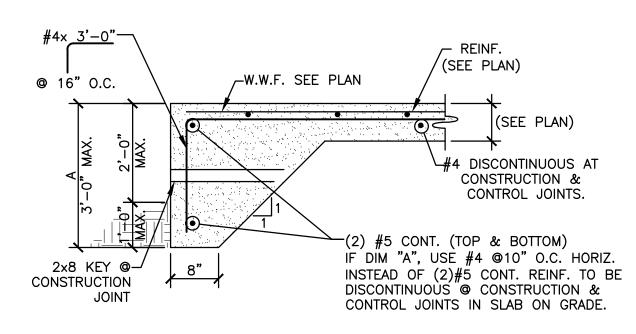
SCALE: 1"=1'-0"

OR FORMED KEY WAY.

- 34 BAR DIAMTER + 1/2 OF WALL THICKNESS
- 34 BAR DIAMETER + WALL THICKNESS LESS 2"

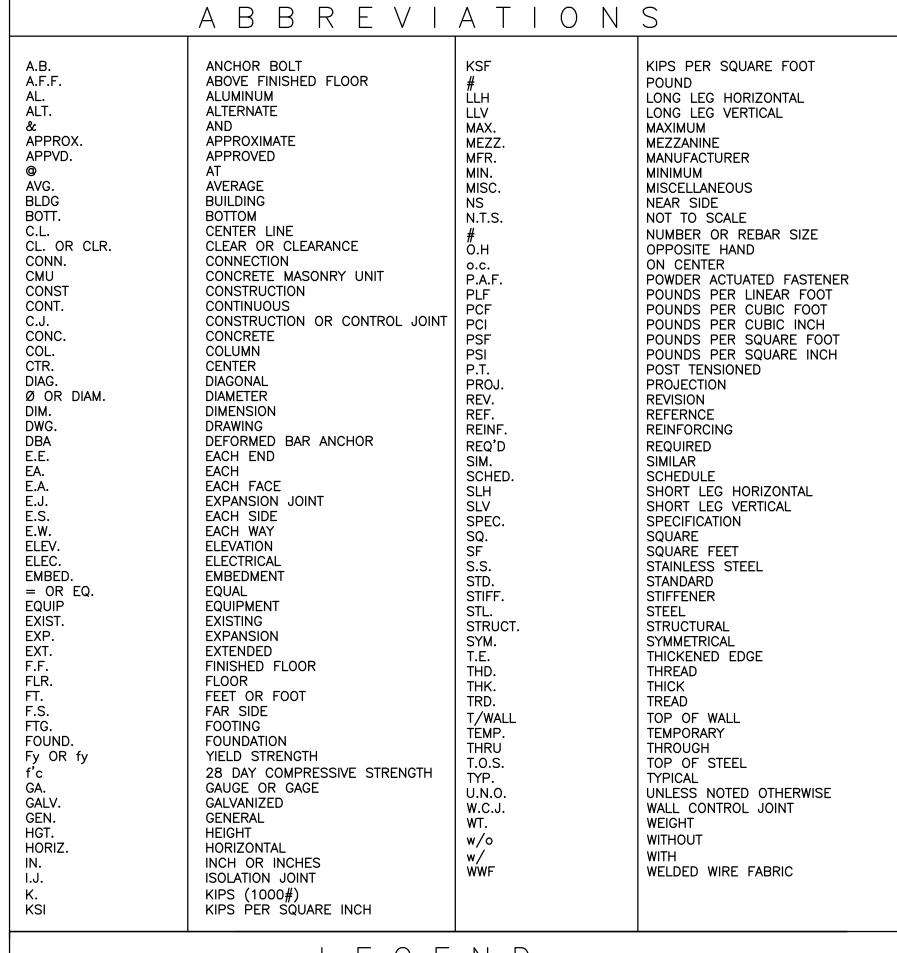
ARRANGEMENT OF REINFORCEMENT AT CONCRETE WALL & SPANDREL CORNERS, ENDS & INTERSECTIONS

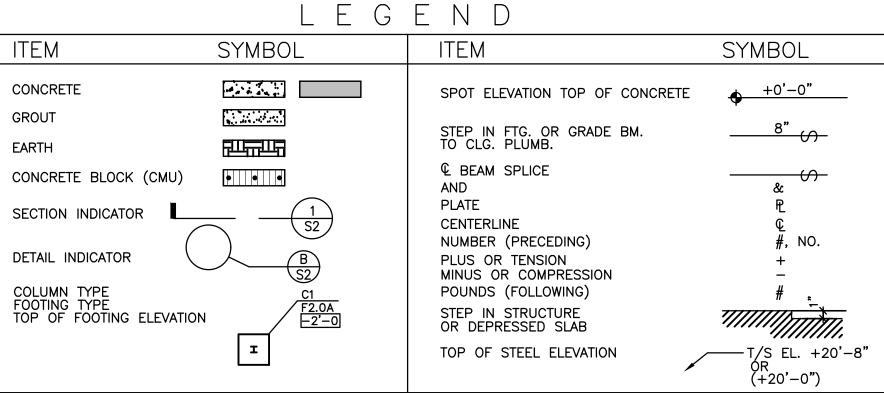
NOT TO SCALE SEE SECTIONS FOR PLACEMENT OF HORIZONTAL AND VERTICAL REINFORCING

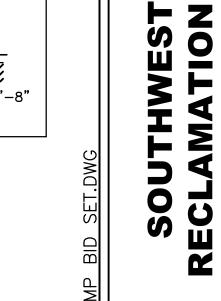


TYP. THICKENED EDGE (TE)

SCALE: $\frac{3}{4}$ "=1'-0"







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- AA-C001654 -

VOSB

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TO THE BEST OF THE ENGINEER-OF-RECORD'S KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE DOCUMENTS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.

DO NOT SCALE OFF OF THESE DRAWINGS. LAYOUT THE BUILDING USING ALL APPLICABLE CONTRACT DRAWINGS, BUILDING DIMENSIONS AND THE LOCATION OF ALL STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO SLAB EDGES, WALLS, COLUMNS, OPENINGS AND DEPRESSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS PRIOR TO LAYOUT OF THE BUILDING. RESOLVE ANY DISCREPANCIES.

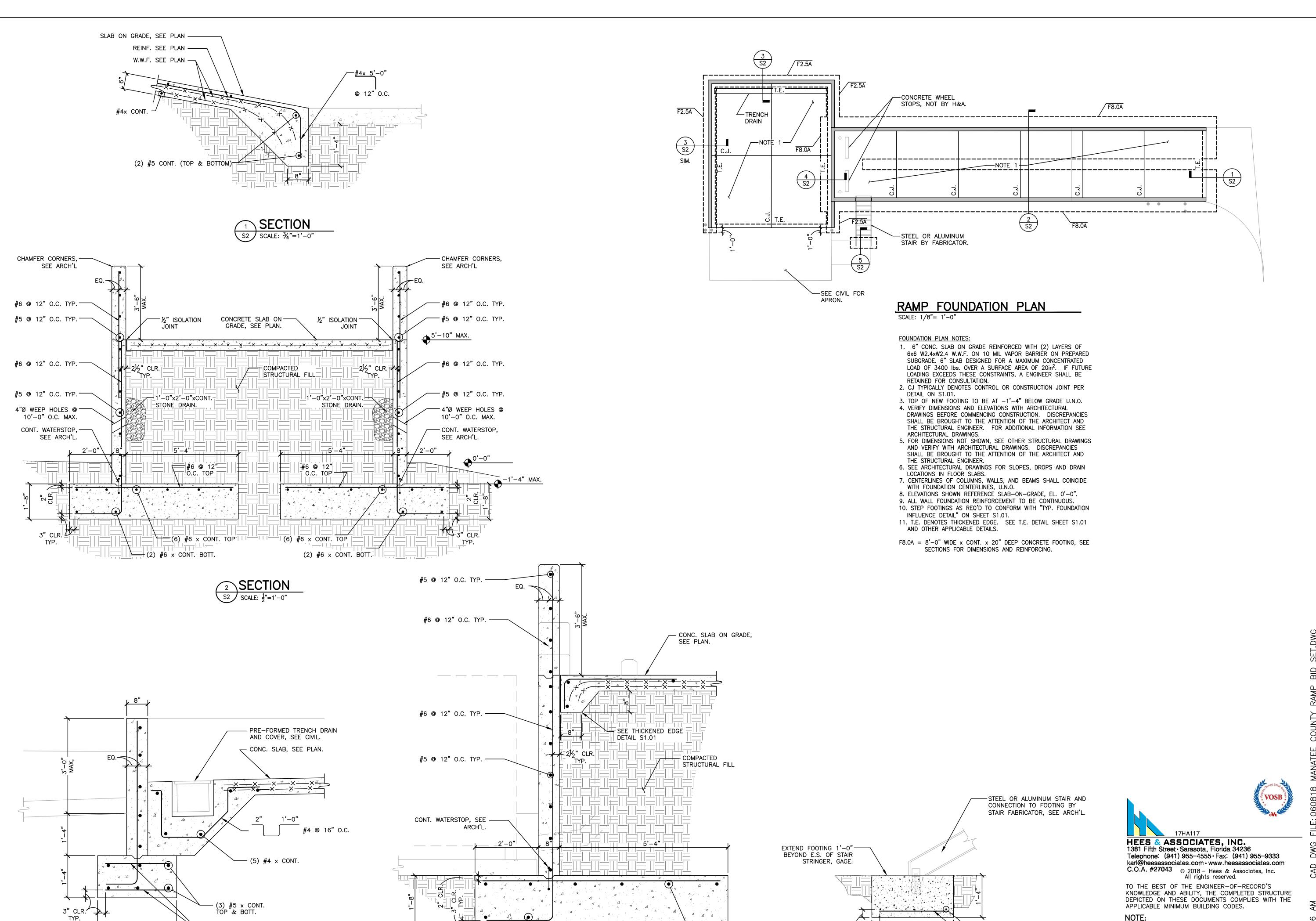
Ճ DATE:

6/5/18 □ DRAWN BY: DEM
CHK'D BY: KH

S1.01

SHEET

REVISIONS



(2) #6 x CONT. BOTT.

4 SECTION

S2 SCALE: 3/4"=1'-0"

3" CLR. — TYP.

 \longrightarrow (6) #6 x CONT. TOP

2'-6"

3 SECTION

S2 | SCALE: $\frac{3}{4}$ "=1'-0"

- #5 x 2'-0" @ 10" O.C. TOP & BOTT.

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- AA-C001654 -

SOUTHWEST RECLAMATION

REVISIONS ▼ PROJECT NO: 2015-35

6/5/18 ∞ DATE: □ DRAWN BY: DEM
CHK'D BY: KH

DO NOT SCALE OFF OF THESE DRAWINGS. LAYOUT THE

BUILDING USING ALL APPLICABLE CONTRACT DRAWINGS,

STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO

ARCHITECTURAL DRAWINGS PRIOR TO LAYOUT OF THE

BUILDING DIMENSIONS AND THE LOCATION OF ALL

SLAB EDGES, WALLS, COLUMNS, OPENINGS AND

DEPRESSIONS SHALL BE COORDINATED WITH THE

BUILDING. RESOLVE ANY DISCREPANCIES.

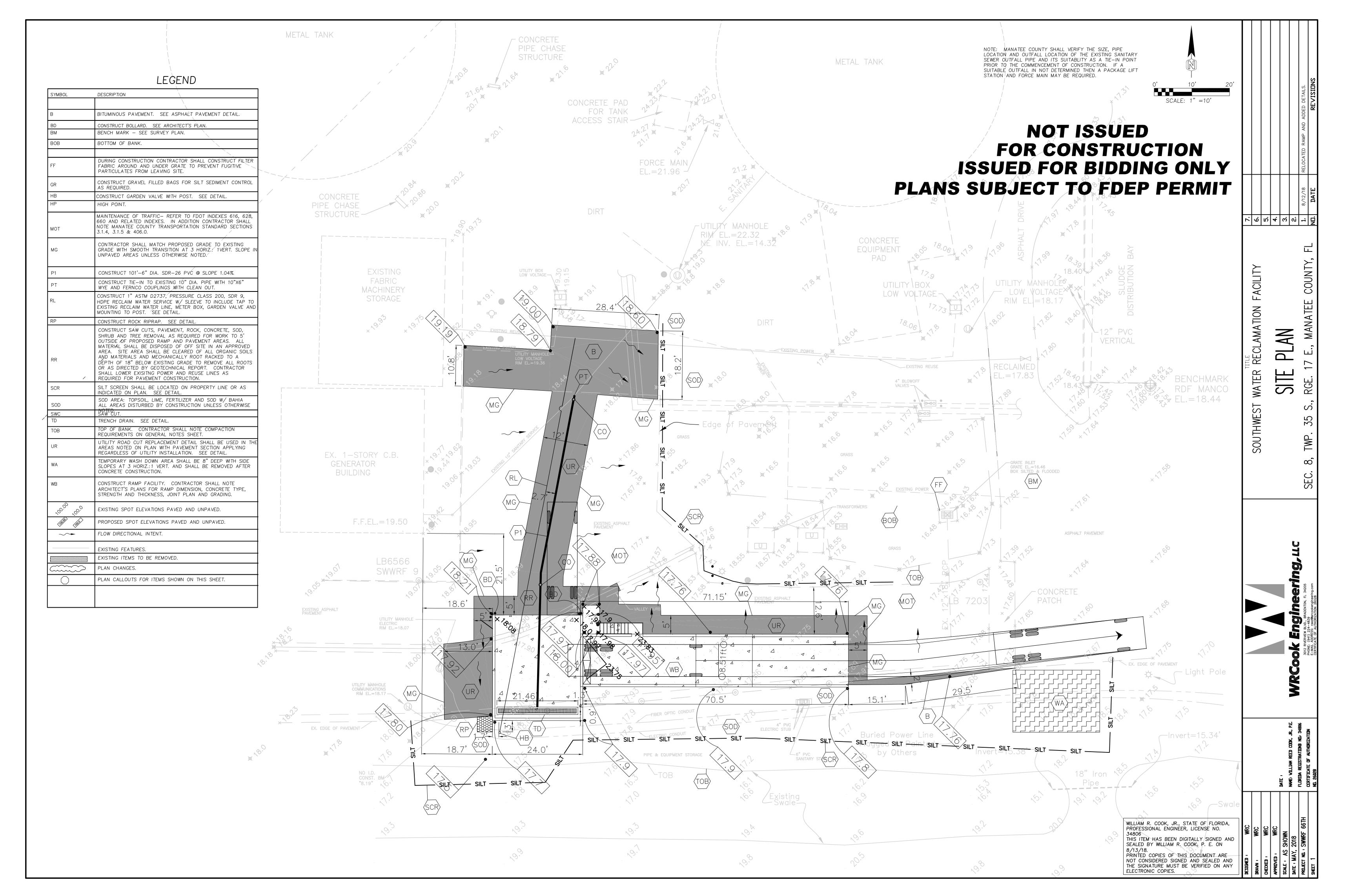
(3) #5 BOTT.

5 SECTION

S2 | SCALE: $\frac{3}{4}$ "=1'-0"

- #5 @ 12" O.C. MAX.

SHEET



GENERAL CONSTRUCTION NOTES

- 1. ALL PROPOSED CONSTRUCTION SHALL MEET OR EXCEED LATEST APPLICABLE MANATEE COUNTY CONSTRUCTION STANDARDS AND SPECIFICATIONS. ALL PROPOSED CONSTRUCTION WILL BE PRIVATELY OWNED AND MAINTAINED FOLLOWING COMPLETION AND
- THE CONTRACTOR IS TO COORDINATE THE LOCATION AND ELEVATION OF ALL FP&L, GTE AND IRRIGATION SERVICE SLEEVES WITH RESPECTIVE AGENCY
- 3. ALL PROPOSED ELECTRICAL AND COMMUNICATION SERVICES SHALL BE CONSTRUCTED TO LOCATIONS AS DIRECTED BY RESPECTIVE AGENCY.
- 4. CURBING AT SIDEWALK INTERSECTIONS TO BE RECESSED FOR PEDESTRIAN
- RAMPS. RAMPS TO BE CONSTRUCTED AT TIME OF CURB RADII. 5. CONTRACTOR TO OBTAIN APPLICABLE PERMITS PRIOR TO COMMENCEMENT
- 6. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND ISSUANCE OF ALL COMMENCEMENT AND/OR PROGRESS NOTICES TO GOVERNMENTAL AGENCIES DURING THE COURSE OF CONSTRUCTION, AS REQUIRED FOR INSPECTION, TESTING AND TRACKING PER APPLICABLE AGENCY PERMIT
- 7. TWO SEPARATE INSPECTIONS BY ERS STAFF ARE REQUIRED PRIOR TO AUTHORIZATION OF CONSTRUCTION AND OR LAND CLEARING ACTIVITIES: OWNER IS AUTHORIZED TO STAKE EROSION AND SEDIMENT CONTROL (ESC) DEVICE LOCATIONS. AFTER STAKING ESC MEASURES, ERS STAFF MUST BE
- CONTACTED TO INSPECT THE STAKE LOCATIONS. AFTER THE INSPECTION OF ESC DEVICES HAS BEEN COMPLETED, A SECOND INSPECTION IS REQUIRED TO ENSURE ADEQUACY.
- 8. CONTRACTOR TO NOTIFY "SUNSHINE", MCPWD, AND FDOT IN THE PRESCRIBED TIME PRIOR TO START OF CONSTRUCTION.
- 9. ALL REQUIRED AND EXISTING ROADWAY STRIPING, PAVEMENT SYMBOLS, AND RAISED PAVEMENT MARKERS TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 10. TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS NECESSARY TO VERIFY THE ACCURACY OF THE
- 11. ALL CONSTRUCTION STAKEOUT AND RECORD DRAWING INFORMATION IS TO BE PERFORMED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
- 12. THE CONTRACTOR SHALL SUPPLY THE ENGINEER OF RECORD (EOR) WITH ALL NECESSARY TEST INFORMATION TO CERTIFY THE JOB IS COMPLETE PER MANATEE COUNTY STANDARDS. THIS SHALL INCLUDE BUT NOT LIMITED TO DENSITY & LBR TESTING OF BASE & SUB-BASE MATERIAL & BACTERIOLOGICAL CLEARENCE.
- 13. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMIT CONDITIONS AND STIPULATIONS FOR ALL LOCAL, REGIONAL AND STATE AGENCIES, INCLUDING, BUT NOT LIMITED TO PLOT & FINAL SITE PLANS, UTILITIES, DRAINAGE, FUGITIVE PARTICULATES AND EROSION.
- 14. ALL DRAINAGE, GRADING, WATER, AND SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH MANATEE COUNTY STANDARDS AND SPECIFICATIONS.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL SODDED AND SEEDED AREAS BEING WATERED AND FERTIZED UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.
- 16. THE OWNERS SHALL SUPPLY THE ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS AND OTHER REQUIRED MATERIALS TESTS UNDER THE TESTING SCHEDULE GUIDE.
- 17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PAYING FOR ALL REQUIRED TESTING WITH THE GEOTECHNICAL ENGINEER. UPON COMPLETION OF THE WORK, THE GEOTECHNICAL ENGINEER SHALL SUBMIT CERTIFICATIONS TO THE ENGINEER AND OWNER THAT STATE THAT ALL REQUIREMENTS HAVE BEEN MET.
- 18. THE CONTRACTOR SHALL REVIEW ALL PROJECT GEOTECHNICAL REPORTS PRIOR TO BIDDING AND THE START OF CONSTRUCTION.
- 19. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED CONSTRUCTION DRAWINGS AND ALL PERMITS AT THE CONSTRUCTION SITE.
- 20. ALL CONSTRUCTION AND CONSTRUCTION TESTING SHALL MEET OR EXCEED THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2014. SHOULD THERE BE A CONFLICT BETWEEN ANY NOTED SPECIFICATIONS, THE MOST STRINGENT SHALL SUPERSEDE. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD A CERTIFIED LETTER FROM HIS GEO-TECHNICAL ENGINEER THAT STATES SAID SPECIFICATIONS HAVE BEEN MET.
- 21. ALL WORK SHALL COMPLY WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL TRENCH SAFETY REQUIREMENTS.
- 22. THE CONTRACTOR SHALL OBTAIN AND COMPLY WITH ALL GOVERNMENTAL AGENCY CONDITIONS OF APPROVALS.
- 23. THE CONTRACTOR SHALL OBTAIN A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION PRIOR
- 24. ALL SOD AREAS TO BE BAHIA UNLESS OTHERWISE NOTED.
- 25. OWNER TO NOTE ARCHITECT'S PLAN FOR WATER AND SEWER LOCATIONS WITHIN THE BUILDING.
- 26. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTHS OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF CONFLICTS PRIOR TO CONSTRUCTION.

NOT ISSUED

FOR CONSTRUCTION

ISSUED FOR BIDDING ONLY

UTILITY NOTES

FAC 62.555.314.

- THE CONTRACTOR IS RESPONSIBLE FOR THE PRODUCTION OF REPRODUCIBLE RECORD DRAWINGS. PRIOR TO SCHEDULING OF ANY UNDERGROUND UTILITY PRESSURE TESTS, CONTRACTOR SHALL HAVE OBTAINED (FROM A PROFESSIONAL SURVEYOR) ALL NECESSARY FIELD DATA REQUIRED FOR THE PRODUCTION OF RECORD DRAWINGS. SAID RECORD DRAWINGS ARE TO MEET THE REQUIREMENTS OF MANATEE COUNTY HEALTH DEPARTMENT & PUBLIC WORKS DEPARTMENT MINIMUM TECHNICAL STANDARD (REV.#3) AND FDEP. THE CONTRACTOR SHALL PROCESS SAID DRAWINGS THROUGH MANATEE COUNTY PLANNING, PERMITTING AND INSPECTIONS DEPARTMENT (MCPPI) AND UPON COMPLETION SHALL PROVIDE A REPRODUCIBLE MYLAR AND FIVE SETS OF PRINTS OF THE RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR TO THE ENGINEER. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES, AND THE ENGINEER.
- THE CONTRACTOR IS TO ASSURE HIMSELF THAT ALL UNDERGROUND UTILITIES AND STORM SEWER IS CONSTRUCTED, TESTED AND OPERATIONAL PRIOR TO ANY ROADWAY CONSTRUCTION.
- WATERMAINS ARE TO BE PIGMENTED, COLOR BLUE, SDR-18, C-900 OR C-905 PVC. WATER SERVICES, WHERE LOCATED UNDER PAVEMENT, TO BE ENCASED IN CLASS 160, SDR-26 (3" MIN.). MAINTAIN A MINIMUM OF 36"
- GRAVITY SANITARY SEWERS ARE TO BE PIGMENTED, COLOR GREEN, SDR 26 PVC AND CONFORMING TO ASTM D-3034. MAINTAIN A MINIMUM OF 36" COVER.
- SANITARY SEWER FORCEMAINS ARE TO BE PIGMENTED, COLOR GREEN
- SDR-18, C-900 OR C-905 PVC. MAINTAIN A MINIMUM OF 36" COVER. RECLAIMED WATERMAINS ARE TO BE PIGMENTED, COLOR PURPLE, SDR-18,
- C-900 OR C-905 PVC. MAINTAIN A MINIMUM OF 36" COVER. 7. SEPARATION BETWEEN SEWER AND WATER LINES SHALL BE IN ACCORDANCE WITH
- ALL UTILITIES SHOWN AS EXISTING WERE DERIVED FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE ACTUAL LOCATION, SIZE, TYPE AND AMOUNT OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR TO NOTIFY "CALL SUNSHINE" (PH. 1-800-432-4770), MCPWD AND FP&L 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE DRAINAGE
- 9. CONTRACTOR IS RESPONSIBLE FOR ALL GOVERNMENTAL CONSTRUCTION FEES LOCATIONS NOT SHOWN ON PLANS AND CHANGES I.E.: INSPECTIONS AND TESTING FEES. HOWEVER, IMPACT FEES (FIF), IF APPLICABLE, TO BE PAID BY THE OWNER. A UTILITY TESTING DEPOSIT MUST BE PAID PRIOR TO SCHEDULING ANY UTILITY TEST.
- 10. ALL EASEMENTS AS SHOWN WITHIN THE PROJECT BOUNDARY LIMITS ARE TO BE CONSIDERED PUBLIC (UNLESS OTHERWISE STATED). EASEMENTS TO BE GRANTED IN CONJUNCTION WITH RECORD PLAT PROCESSING.
- 11. CONTRACTOR TO COORDINATE PRESSURE TEST W/ MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DEPARTMENT (792-8811) PRIOR TO REMOVING THE TEMPORARY 2" RPZ JUMPER AND CONNECTING THE WATER AND FIRE LINE SERVICE. CONTRACTOR SHALL PROVIDE E.O.R. WITH PRESSURE TEST RESULTS AND BACTERIOLOGICAL CLEARANCE PRIOR TO CONNECTION OF SAME, IF APPLICABLE
- EXISTING WELLS SHALL BE KEPT IN A WATERTIGHT MANNER AND BE PROTECTED DURING ALL CONSTRUCTION ACTIVITIES. ANY WELLS DISCOVERED DURING LAND CLEARING SHALL BE PROTECTED OR ABANDONED IN ACCORDANCE WITH SWFWMD RULE CHAPTER 40D.
- 13. CONTRACTOR SHALL COORDINATE RELOCATION OF EXISTING UTILITIES AND INSTALLATION OF PROPOSED UTILITY CONDUITS WITH THE APPROPRIATE
- UTILITY COMPANY (I.E., FPL, BRIGHTHOUSE, GTE, etc.). 14. POTABLE WATER AND SANITARY SEWER SHALL BE CONSTRUCTED TO MANATEE
- COUNTY PUBLIC UTILITY STANDARDS AND PRIVATELY OWNED AND PRIVATELY MAINTAINED. 15. CLEANOUTS SHALL NOT BE SPACED MORE THAN 100' APART.
- 16. MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS ARE THE MINIMUM ALLOWABLE WATER AND/OR WASTEWATER CONSTRUCTION STANDARDS. WHERE ANY NOTE OR DETAIL ON THESE PLAN'S CONFLICT WITH THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS THE MORE STRINGENT INTERPRETATION, AS DETERMINED BY THE COUNTY INFRASTRUCTURE INSPECTOR, SHALL BE APPLIED.
- 17. THERE SHALL BE 3' MINIMUM CLEARANCE FORM THE LANDSCAPE PLANTS TO THE EDGE OF THE METER LESS THAN 3" AND 10' FOR METERS 3" AND LARGER.
- 18. THERE SHALL BE 7.5' MINIMUM CLEARANCE FROM FRONT AND BOTH SIDES AND 4' FROM THE BACK FOR ALL FIRE HYDRANTS.
- 19. NO TREES SHALL BE PLANTED WITHIN 10' OF ANY COUNTY MAINTAINED WATER AND SEWER MAIN.

DEWATERING NOTES:

- 1. CONTRACTOR TO INSURE THAT THE DEWATERING ACTIVITIES DO NOT CAUSE EROSION AND THAT SUMP IS UTILIZED TO ALLOW FOR PARTICLE
- SEDIMENTATION. 2. SEDIMENT SUMPS AND DISCHARGE EROSION CONTROL ARE TO BE IMPLEMENTED BEFORE ANY DEWATERING ACTIVITIES OR EARTHWORK
- CONSTRUCTION. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALLS PER DETAIL ARE TO BE CONSTRUCTED AFTER SEDIMENT SUMPS. 3 SLIMP SIZE BASED LIPON AN ASSLIMED DEWATERING DISCHARGE OF 5 cfs
- CONTRACTOR IS TO NOTIFY ENGINEER IF GREATER DISCHARGE IS PROPOSED SO SUMP SIZE CAN BE RECALCULATED PER SWFWMD SECTION 3.2.4.8. 4. DEWATERING WITHDRAWALS ARE TO BE FROM THE TOP OF THE WATER AREAS TO ALLOW FOR THE ADEQUATE SETTLING OF PARTICLES AND INSURE
- WATER QUALITY. 5. CONTRACTOR IS TO NOTIFY SWFWMD OF ANY MODIFICATIONS PROPOSED BY THE CONTRACTOR TO THE DEWATERING PLAN. CONTRACTOR IS RESPONSIBLE FOR PREPARATION OF ANY REQUIRED PLANS AND PROCESSING OF SAME. 6. DISCHARGE FROM SUMPS SHOULD MAXIMIZE OVERLAND FLOW PRIOR TO
- ENTERING OUTFALL. STAKED HAY BALES WILL BE USED TO MINIMIZE SILTATION RUNOFF. CONTRACTOR IS RESPONSIBLE FOR UTILIZING ADEQUATE HAY BALES AT DISCHARGE LOCATIONS TO PREVENT SCOURING. 7. SEE PLAN VIEWS FOR EASEMENTS, EXISTING WETLAND LIMITS, ETC..

CLEARING AND GRUBBING NOTES

- EROSION CONTROL PREVENTIVE METHODS, SILT SCREENS SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF EARTHWORK CONSTRUCTION TO MINIMIZE EROSION AND SEDIMENTARY RUNOFF. THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR ANY POTENTIAL EROSION PROBLEMS. IF ANY POTENTIAL EROSION PROBLEMS ARE ENCOUNTERED, OR HAVE OCCURRED, THE CONTRACTOR SHALL INSTALL PROPER EROSION CONTROL MEASURES IMMEDIATELY. STORMWATER TREATMENT FACILITIES ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO UNTREATED RUNOFF OFF-SITE OCCURRING DURING CONSTRUCTION
- EROSION CONTROL AND FUGITIVE PARTICULATE ABATEMENT PLANS ARE THE RESPONSIBILITY OF THE CONTRACTOR. A "BEST PRACTICES" EROSION CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR TO THE MANATEE COUNTY ENVIRONMENTAL PLANNING DIVISION (EPD) PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- ALL EXISTING TREES AND BRUSH DESIGNATED FOR REMOVAL ARE TO BE CLEARED AND DISPOSED OF OFFSITE, OR BURNED ON-SITE IF APPROVED BY THE DISTRICT FIRE DEPARTMENT AND COUNTY HEALTH DEPARTMENT. ALL EXISTING TREES AND UNDERBRUSH AREAS THAT ARE TO REMAIN UNDISTURBED SHALL BE PROTECTED BY BARRICADES. THE CONTRACTOR SHALL INSTALL SAID BARRICADES AT COMMENCEMENT OF CONSTRUCTION AND REMOVE FOLLOWING FINAL GRADING AND LANDSCAPING.
 - SODDING AND/OR GRASSING TO BE COMPLETED IMMEDIATELY UPON COMPLETION OF FINISH GRADING. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE FUGITIVE PARTICULATE ABATEMENT PLAN (DUST
 - PROPOSED PARKING, RAMP AND BUILDING AREAS SHALL BE CLEARED OF ALL TREES AND BRUSH, AND STRIPPED TO A MINIMUM DEPTH OF 18" BELOW EXISTING GRADE AND/OR BOTTOM OF ORGANIC LAYER OR AS DIRECTED BY GEOTECHNICAL REPORT. REMOVAL OF ALL EXOTIC NUISANCE PLANT SPECIES FROM THE UPLAND PORTIONS OF THE SITE SHALL BE COMPLETED PRIOR TO THE FIRST CERTIFICATE OF OCCUPANCY ISSUANCE OR FINAL PLAT APPROVAL

UTILITY INFRASTRUCTURE ENGINEERING REQUIREMENTS:

- WHEN THE CONSTRUCTION OF THE DEVELOPMENT HAS BEEN SUBSTANTIALLY COMPLETED, THE ENGINEER OF RECORD WILL BE REQUIRED TO SUBMIT THE FOLLOWING ITEMS TO UTILITY ENGINEERING BEFORE THE COUNTY MAY CERTIFY THAT THE PROJECT IS READY TO BE PLACED INTO SERVICE AND PERMANENTLY CONNECTED TO THE MANATEE COUNTY UTILITY
- A. TWO SETS OF SIGNED AND SEALED WATER AND WASTEWATER RECORD DRAWINGS, FOR REVIEW AND APPROVAL. RECORD DRAWINGS SHALL INCLUDE A BASELINE RUNNING ALONG ONE OF THE FOLLOWING: CENTER LINE OR EDGE OF A ROADWAY, RIGHT OF WAY OR EASEMENT, FACE OF A BUILDING, EDGE OF A SIDEWALK, OR ANOTHER APPROVED REPRODUCIBLE REFERENCE LINE.
- B. A COPY OF THE CURRRENT BACTERIOLOGICAL TEST RESULTS FROM THE DEVELOPMENT
- C. A COPY OF THE COMPLETED INFRASTRUCTURE TEST REPORTS FROM INFRASTRUCTURE INSPECTIONS.
- AFTER THE RECORD DRAWINGS HAVE BEEN REVISED AND ACCEPTED BY UTILITY ENGINEERING, PLEASE PROVIDE A FINAL RECORD DRAWING SUBMITTAL WHICH SHALL CONSIST
- A. TWO SIGNED AND SEALED COPIES OF THE ACCEPTED RECORD DRAWINGS (SIGNED AND SEALED BY THE ENGINEER OF RECORD AND BY THE SURVEYOR WHO PREPARED THEM).
- B. A MYLAR VERSION OF THE ACCEPTED RECORD DRAWINGS.
- C. A DISKETTE VERSION OF THE ACCEPTED RECORD DRAWINGS

EPD-ESCP NOTES

- THE FOLLOWING IS RESPONSE TO THE ITEMS IN LDC SECTION 508.3.4(J).
- 1. DETAILS OF CONSTRUCTION SEQUENCING, DEWATERING ACTIVITIES AND SUMP LOCATIONS, STOCKPILE AREAS AND/OR DEPOSITION AREAS FOR EXCAVATED MATERIALS.
- DESCRIPTION OF LAND CLEARING/DISTURBING ACTIVITIES, EXISTING SITE CONDITIONS AND ADJACENT LAND USES/AREAS THAT MIGHT BE AFFECTED BY LAND CLEARING/DISTURBANCES. RESPONSE: LAND CLEARING SHALL CONSIST OF 18" OF GRUBBING OF ALL PROPOSED GRASSED AREA.
- B. IDENTIFICATION OF STOCKPILE AREAS AND/OR DEPOSITION AREAS FOR EXCAVATED MATERIALS. RESPONSE: NO STOCKPILE AREAS WILL BE NECESSARY, FILL WILL BE PLACED AS RECEIVED.
- DESCRIPTION OF POTENTIAL ONSITE PROBLEM AREAS SUCH AS STEEP GRADE CHANGES, HIGHLY ERODIBLE SOIL, AREAS ADJACENT TO WETLANDS SURFACE WATERS, OR UPLAND PRESERVATION AREAS.
- RESPONSE: STEEP SLOPE AREAS WILL BE STABILIZED WITH SOD AS SOON AS GRADES ARE BROUGHT TO DESIGN ELEVATION AND FINISHED GRADING HAS BEEN COMPLETED.
- CONSTRUCTION SCHEDULING, INCLUDING THE EXPECTED STARTING AND STABILIZATION DATES.
- RESPONSE: CONSTRUCTION IS SCHEDULED TO COMMENCE IMMEDIATELY UPON APPROVAL OF THE ESCP/CONSTRUCTION PLANS AND IS ANTICIPATED TO TAKE 1 YEAR TO COMPLETÉ THE SITE IMPROVEMENTS.
- IDENTIFICATION OF DISTURBED AREAS WHERE CONSTRUCTION WILL NOT BE ONGOING AND FINAL GRADE WILL NOT BE ACHIEVED WITHIN FOURTEEN (14) DAYS, AND AN INDICATION OF TEMPORARY STABILIZATION DATES.
- RESPONSE: DISTURBED AREAS WILL BE STABILIZED (I.E. GRASSED) IMMEDIATELY UPON COMPLETION OF FINISHED GRADING.
- 2. DETAILS OF BEST MANAGEMENT PRACTICES AND FUGITIVE PARTICULATE ABATEMENT METHODS.
 - DETAILS, DRAWINGS AND CROSS-SECTIONS OF EROSION AND SEDIMENT CONTROL DEVICES, IF DIFFERENT FROM THE APPROVED FINAL SITE PLAN/CONSTRUCTION PLANS AND WHEN THEY WILL BE INSTALLED.
 - MAINTENANCE PROGRAM FOR EROSION AND SEDIMENT CONTROL DEVICES INCLUDING INSPECTION FREQUENCY AND MAINTENANCE ACTIVITIES.
 - RESPONSE: SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED BY THE CONTRACTOR DAILY AND WITHIN 1 HOUR AFTER A RAINFALL EVENT OF 1" OR GREATER. A DAILY INSPECTION SHEET SHALL BE POSTED IN THE "CONSTRUCTION BOX" ON SITE FOR REVIEW BY AGENCY STAFF OR THIS OFFICE.
- C. HAUL ROUTES AND DETAILS OF APRON STABILIZATION AT INGRESS/EGRESS POINTS TO RIGHTS-OF-WAY.
- RESPONSE: NO HAUL ROUTES WILL BE NECESSARY FOR THIS DEVELOPMENT. D. DETAILS/LOCATIONS OF EQUIPMENT WASHING AREA.

RESPONSE: PLEASE REFER TO THE ATTACHED ESCP.

- RESPONSE: PLEASE SEE ATTACHED ESCP.
- E. DETAILS OF FUGITIVE PARTICULATE ABATEMENT METHODS.
- RESPONSE: PLEASE SEE ATTACHED ESCP. TRUCK WATERING AND OR HYDRO SEEDING SHOULD ABATEMENT PROBLEMS EXIST.
- CONTRACTOR INFORMATION, INCLUDING A TWENTY-FOUR-HOUR, EVEN-DAY CONTACT AND PHONE
- RESPONSE: CONTRACTOR INFO TO BE DETERMINED.

DRAINAGE AND GRADING NOTES

1. THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH

REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY

WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR

SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A

FNGINFFR OF RECORD SAID RECORD DRAWINGS, AT A MINIMUM, SHOULD

PLANNING, PERMITTING AND INSPECTIONS AND SOUTHWEST FLORIDA

PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE

INCLUDE ALL INFORMATION SHOWN ON THE CONSTRUCTION PLANS.

STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS SHALL

BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT

PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES.

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION

BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION

AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER

THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE

LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS

CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION

CONTROL IMMEDIATELY. STORMWATER TREATMENT FACILITIES INCLUDING

DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING

TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL

CONSTRUCTION AND FINAL STABILIZATION. SOIL SHOULD BE WATERED

RESPONSILBLE FOR THE DAILY FUNCTION OF ALL EROSION CONTROL

DURING ANY INDICATION OF AIRBONE MATERIALS. THE CONTRACTOR IS

COMPLETE BY THE ENGINEER OF RECORD (EOR) AND ALL APPLICABLE

AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO

"CALL SUNSHINE" (PH. 1-800-432-4770), MCPWD AND FP&L 48

HOURS MINIMUM PRIOR TO START OF CONSTRUCTION FOR POSSIBLE

DRAINAGE FACILITY PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY

3. ALL EXISTING DRAINAGE, AS SHOWN, WAS TAKEN FROM THE BEST

VERIFY THE ACTUAL LOCATION, SIZE, TYPE OF EXISTING

DRAINAGE LOCATIONS NOT SHOWN ON PLANS.

GOVERNMENT AGENCIES.

DEVICES AND SHOULD LEAVE THEM IN PLACE UNTIL THE JOB IS DEEMED

IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL

FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE

OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE

DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUNOFF OCCURRING

SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED

2. TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION

- 3. DETAILS OF DEWATERING ACTIVITIES AND LOCATIONS, DRAWINGS AND CROSS-SECTIONS OF DEWATERING SUMPS. RESPONSE: NO DEWATERING IS PROPOSED.
 - 4. AS-BUILT STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. AS-BUILTS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT.

ITEM

Enbankment

Trench Backfill

Under Roadways

and Structures

Backfill of

Structures

Subgrade

TEST TYPE

Maximum Density

Field Density

Optimum Moisture

Maximum Density

Optimum Moisture

Maximum Density

Optimum Moisture

Field Density

Bearing Values

Maximum Density

Field Density &

Maximum Density

Optimum Moisture

Thickness

Thickness

Gradation

Soil Cement Base Mix Design

SHWL & bottom of Optimum Moisture

Asphaltic Concrete Materials Quality

(To be used if

base is <1.5')

separation between

Field Density

Atterberg Limits

Maximum Density

Strength Specimens

Compressive

Test Cores

Thickness

Gradation

Field Density

Los Angeles

Abrasion

Thickness

See Geotechnical report.

(MONITORING PLAN/STATION NOT REQUIRED)

DEPARTMENT PRIOR TO IMPLEMENTATION.

(NO TRENCHING) OR USE HAY BALES IN THESE LOCATIONS.

RESOURCE PERMIT AND NPDES PERMIT).

Field Density &

Bitumen Content

Bearing Values

Optimum Moisture

Field Density

- ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION & INSIDE EDGE OF STRUCTURES. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- 6. RIGHT OF WAY USE PERMIT TO BE OBTAINED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION WITHIN THE RIGHT OF WAY, IF REQUIRED.
- THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR ESTIMATING AND CALCULATING ALL CUT AND FILL QUANTITIES. PRIOR TO BID SUBMISSION THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOIL TESTS HE DEEMS NECESSARY TO CALCULATE THE CUT AND FILL QUANTITIES PROPERLY. ADDITIONAL SURVEYS AND TESTS MADE BY THE CONTRACTOR SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- 9. ROADSIDE UNDERDRAIN SHOWN ON PLAN IS MINIMUM AND EXTENSION SHALL BE REQUIRED AS DETERMINED NECESSARY BY THE ENGINEER OF RECORD AND/OR MCPWD INSPECTION DEPARTMENT DURING THE COURSE OF CONSTRUCTION.
- 10. ALL BIDDERS ARE HEREBY ADVISED THAT ALL EXCAVATION SHALL COMPLY WITH ALL SAFETY REQUIREMENTS.

- 11. SUITABLE FILL MATERIAL SHALL BE BASED ON THE PROJECT GEO-TECHNICAL ENGINEER'S DETERMINATION.
- 13. REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- 14. ALL EASEMENTS AS SHOWN WITHIN THE PROJECT BOUNDARY LIMITS ARE TO BE CONSIDERED PUBLIC (UNLESS OTHERWISE STATED). EASEMENTS TO BE GRANTED IN CONJUNCTION WITH RECORD PLAT PROCESSING.

15. ALL FILL AREAS AND PAVEMENT AREAS SHALL BE CONSTRUCTED PER

12. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES

THE GEO-TECHNICAL REPORT. 16. THE CONTRACTOR IS TO REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING

TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND

- REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING. 17. TV VIDEO INSPECTION IS REQUIRED FOR ALL RCP STORMWATER PIPES (PUBLIC OF PRIVATE). LASER PROFILE IS REQUIRED FOR ALL ADS/HDPE STORMWATER PIPES. FOR PIPE 48" OR LESS IN DIAMETER, PROVIDE THE ENGINEER A VIDEO DVD AND REPORT USING LOW BARREL DISTORTION VIDEO EQUIPMENT W/ LASER PROFILE TECHNOLOGY, NON-CONTACT
- MICROMETER AND ASSOCIATED SOFTWARE (OR APPROVED EQUAL) THAT PROVIDES: 1. ACTUAL RECORDED LENGTH AND WIDTH MEASUREMENTS OF ALL CRACKS WITHIN THE PIPE.
- 2. ACTUAL RECORDED SEPARATION MEASUREMENT OF ALL PIPE JOINTS.
- PIPE OVALITY REPORT.

TESTING SCHEDULE GUIDE

N/A

N/A

Density

See Typical

See Typical

See Typical

Pavement Section

Per Specifications

Per Specifications

Per Specifications

HE DEVELOPER SHALL BE RESPONSIBLE FOR SCHEDULING AN ON—SITE MEETING WITH STAFF FROM THE MANATEE COUNTY ENVIRONMENTAL PLANNING DIVISION AND PROJECT MANAGEMENT DEPARTMENTS, THE ENGINEER OF SECORD AND THE CONTRACTOR. FINAL APPROVAL OF THE ESCP AUTHORIZATION OF CONSTRUCTION WILL BE

GRANTED ONLY AFTER AN ON-SITE MEETING HAS BEEN CONDUCTED. NECESSARY REVISIONS, AS DETERMINED BY

EPD STAFF, SHALL BE MADE PRIOR TO FINAL APPROVAL OF THE ESCP. ANY CHANGES TO THE APPROVED ESCP MUST BE SUBMITTED TO THE EPD BY THE ENGINEER OF RECORD FOR REVIEW PRIOR TO IMPLEMENTATION.

CHANGES THAT QUALIFY AS AN AMENDMENT TO THE FINAL SITE PLAN MUST BE APPROVED BY THE PLANNING

OBTAIN ALL APPLICABLE APPROVALS (FINAL SITE PLAN, CONSTRUCTION PLANS, ENVIRONMENTAL

STAKE THE BOUNDARIES OF THE WETLAND BUFFERS, UPLAND PRESERVATION AREAS OR OTHER

PRIOR TO INSTALLATIONS.

ENVIRONMENTALLY SENSITIVE AREAS, AS INDICATED ON THE APPROVED FINAL SITE

* The Contractor shall not pave over soil cement base until a 30 day curing time has elapsed

*** Should any of the information provided herein conflict with either the recommendations of the

Geotechnical Engineer, and/or the Geotechnical report, then the aforementioned recommendations

** Maximum strength limits, as established by soils testing company, shall not be exceded

-Fill material shall meet AASHTO A3 Standards. This shall include a 2' depth below pond bottom.

4. WATER QUALITY MONITORING PLAN AND MONITORING STATIONS (IF APPLICABLE)

PRIOR TO SCHEDULING THE ON-SITE MEETING THE DEVELOPER SHALL:

5. NOTE TO SILT FENCE INSTALLER: TO FACILITATE "EFFECTIVE" PRESERVATION OF TREES

(THOSE WITH DRIP LINES ON PLAN) SILT FENCE SHALL NOT BE TRENCHED IN WITHIN DRIP LINES

OF TREES WHERE AVOIDABLE. IF UNAVOIDABLE THEN EITHER INSTALL SILT FENCE AT GRADE

95% of Lab Density

Pavement Section

Density

Pavement Section

98% of maximum

REQUIREMENT

95% of maximum

98% of maximum

98% of maximum

FREQUENCY

Per Soil Type

Horizontally *;

Per Soil Type

Horizontally * ;

Per Soil Type

Every 2' Vertically

One Per Soil Type

One Per Soil Type

One Per Source

One Per Source

One Per Soil Type

One Per Soil Type Daily

One Set of 3 Per Soil

One Set of 3 Per Soil

One Per 2,500 S.F.

One Per 2,500 S.F.

One Per 2,500 S.F.

Horizontal

Horizontal

One Per Day

One Per Source

Horizontally

One Per 2,500 S.F.

Horizontally

One Per 2,500 S.F.

One Per Source or as Mtl. Changes

Check Point LBR at 500 L. F. Horiz.

Check Point LBR at

500 L. F. Horizontally

D2922

One Per 2,500 S.F.

One Per 2,500 S.F.

Every 2' Vertically

Alternating Lifts (12 Inches)

At least one for each pipe run

TEST I.D.

T238

D2922

T238

D2922

T238

D2922

AASHTO T180

ASTM D1557

AASHTO T180

AASHTO T180

ASTM D1557

ASTM D1557

AASHTO T191 , T204

ASTM D1556 , D2937

AASHTO T191 , T204

ASTM D1556 , D2937

AASHTO T191 , T204

ASTM D1556 , D2937

LBR - FLA. D.O.T.

AASHTO T191 , T238

ASTM D1556 , D2922

AASHTO T191 , T238

ASTM D1556 , D2922

ASTM C136 , D423 , D424

AASHTO T27 . T98

Portland Cement Assoc. Specifications

Portland Cement

Portland Cement

AASHTO T164

ASTM D2172

ASTM 02950-81

AASHTO T96-77

ASTM C131-81

Assoc. Specifications

Assoc. Specifications

AASHTO T191 . T238

ASTM D1556 , D2922

AASHTO T134

(Standard)

LBR - FLA. D.O.T.

AASHTO T180

ASTM D1557

AASHTO T180

ASTM D1557

AASHTO T90

- 4. DEFLECTION MEASUREMENTS AND GRAPHICAL DIAMETER ANALYSIS REPORT IN TERMS OF X AND Y AXIS.
- 5. FLAT ANALYSY REPORT.
- 6. REPRESENTATIVE DIAMETER OF THE PIPE.

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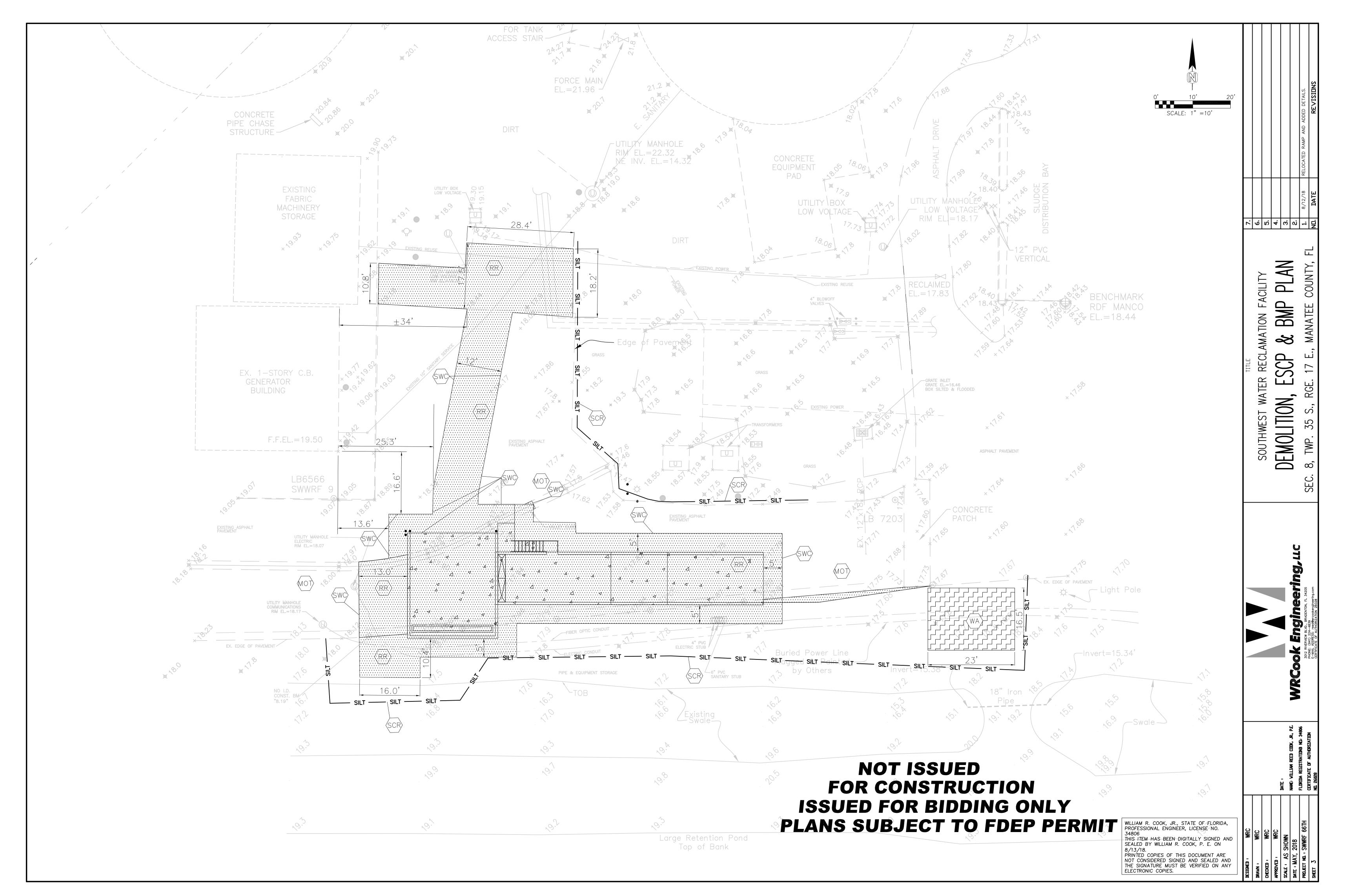
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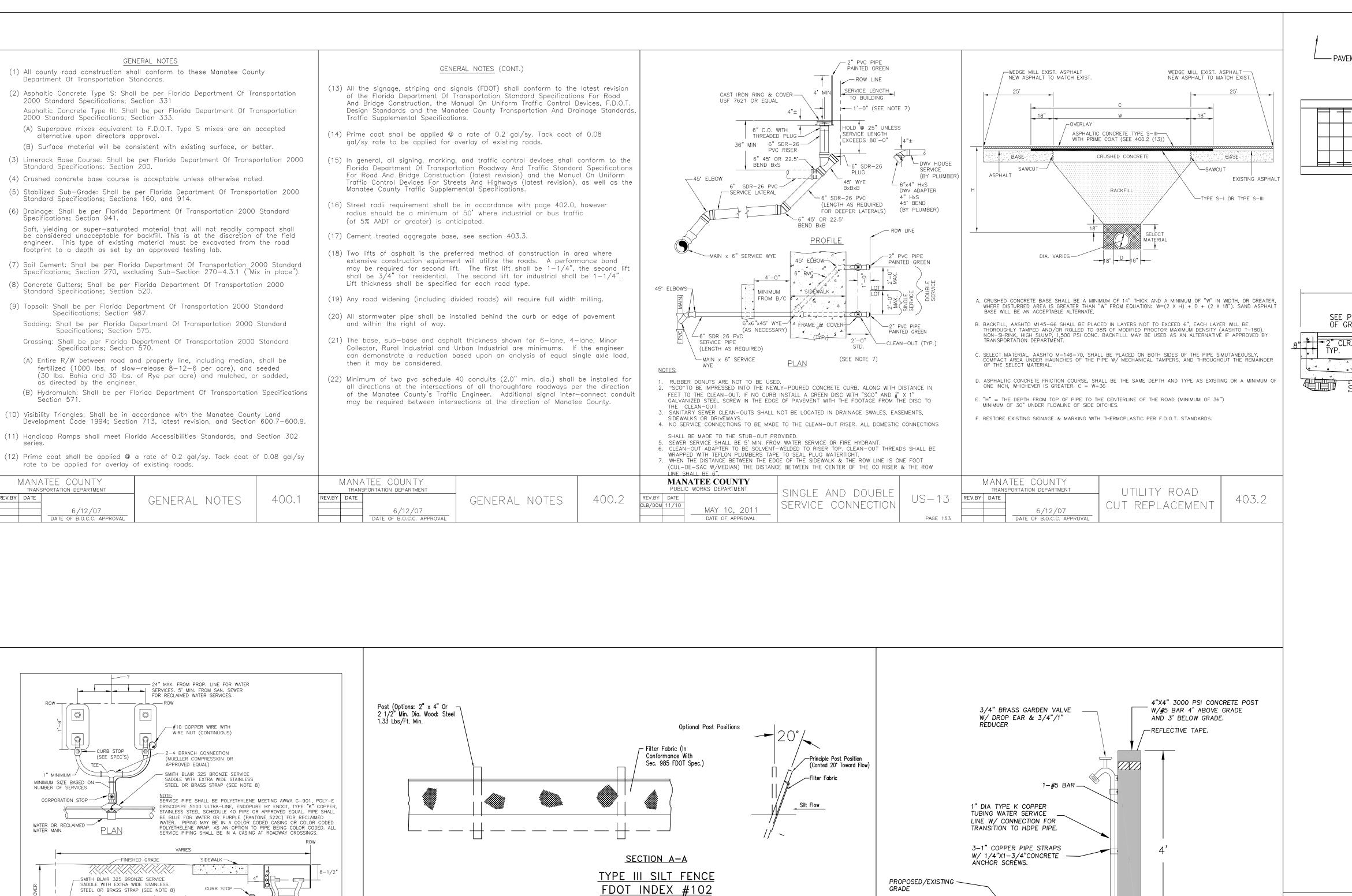
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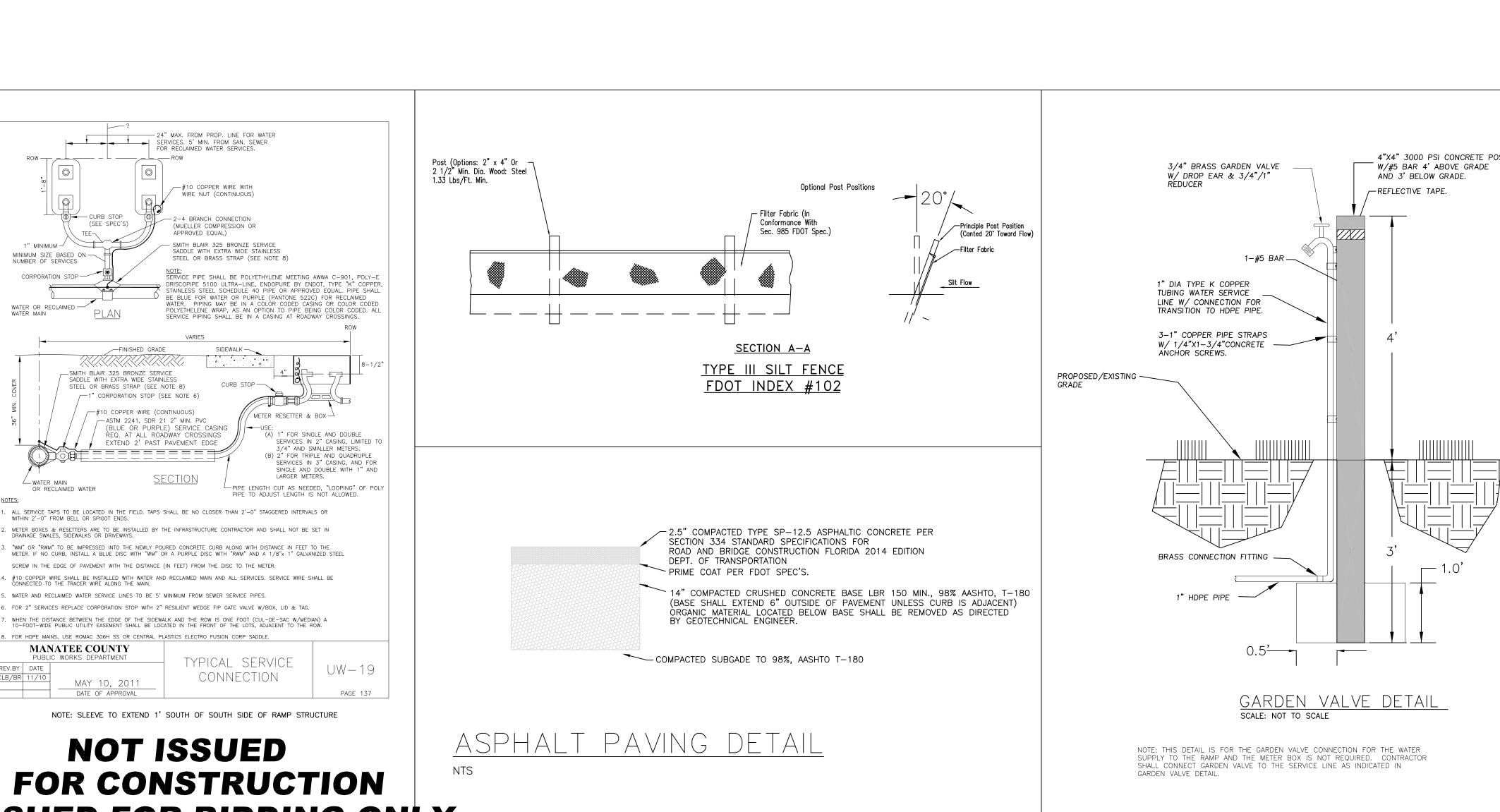
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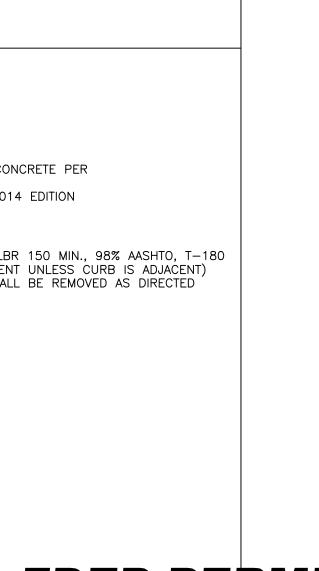
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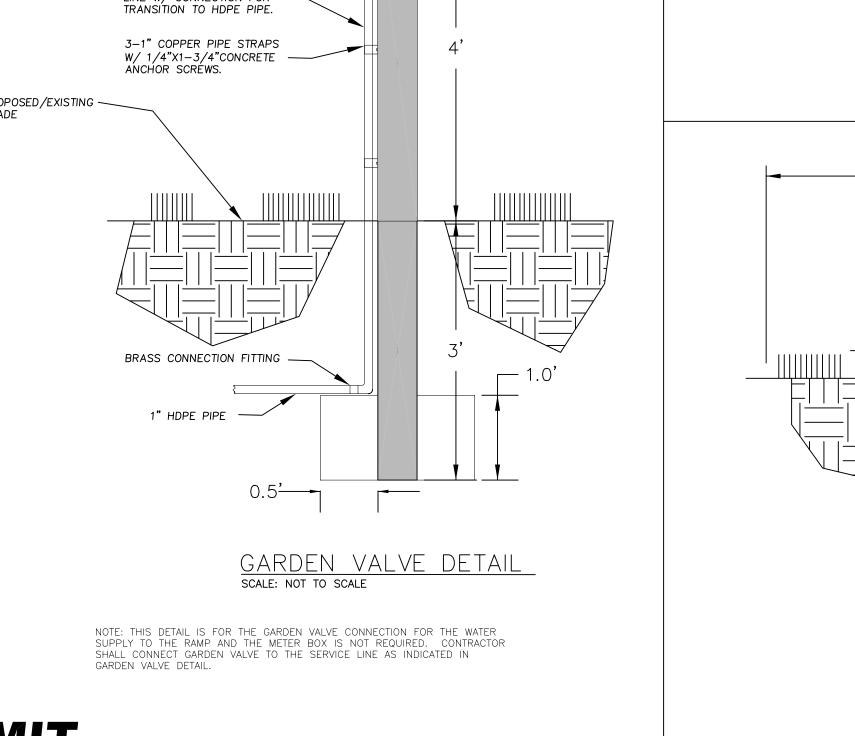


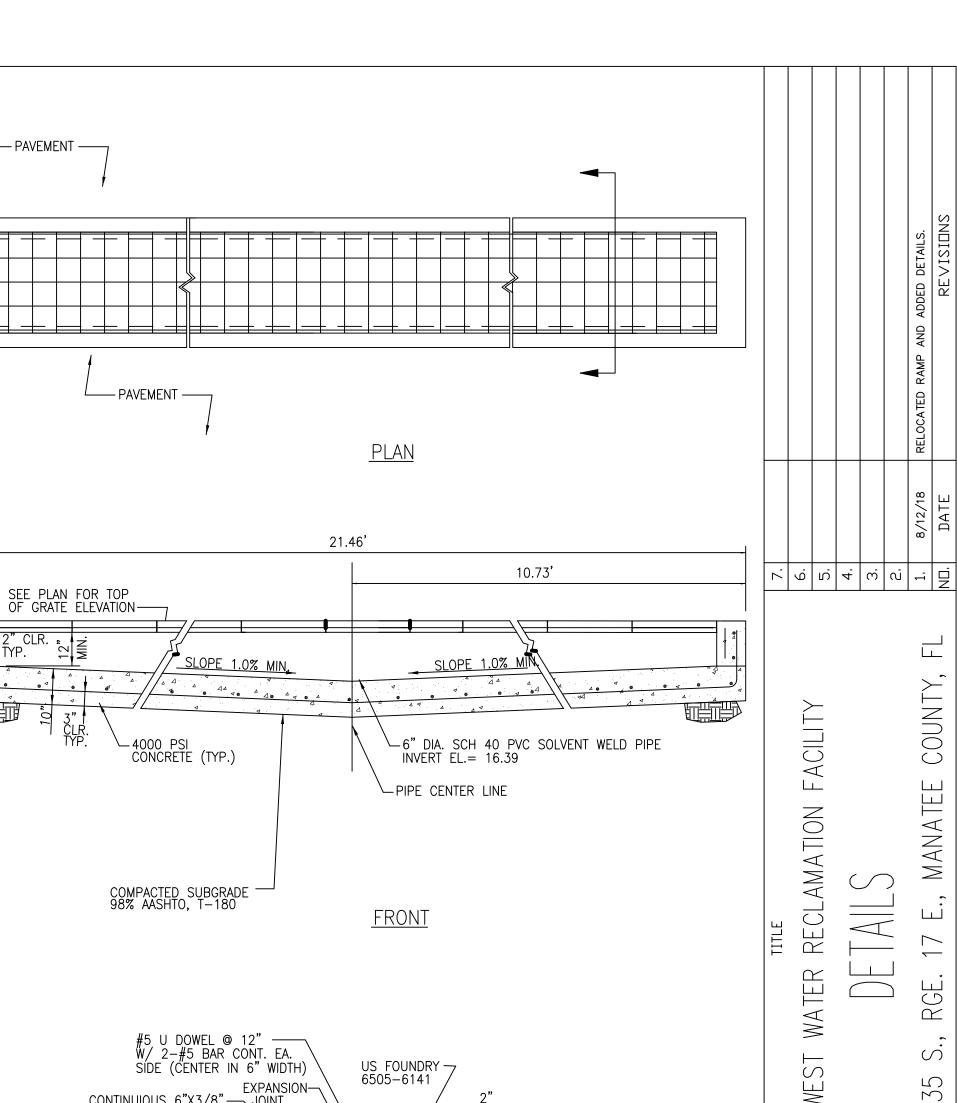


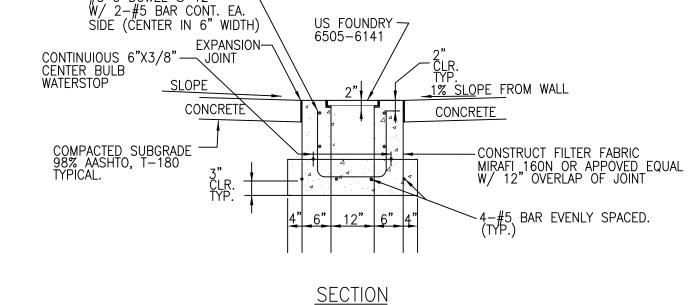


FOR CONSTRUCTION **ISSUED FOR BIDDING ONLY**

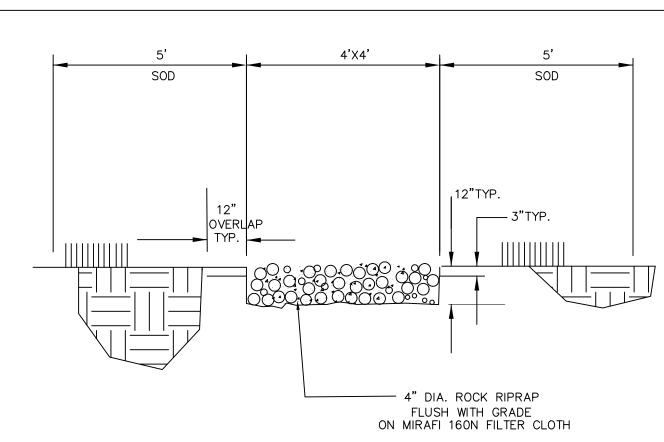








TRENCH GRATE DETAIL SCALE: N.T.S.



RIPRAP DETAIL NOT TO SCALE

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PLANS SUBJECT TO FDEP PERMIT