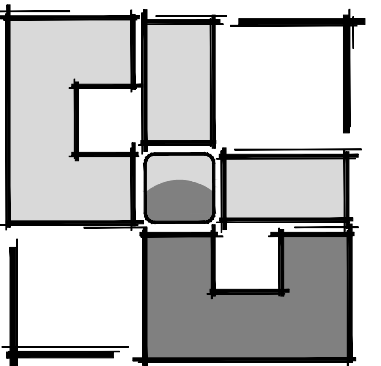


# MANATEE COUNTY SOUTHWEST WATER RECLAMATION FACILITY RAMP



**UGARTE  
& ASSOCIATES, INC.**  
ARCHITECTURE  
PLANNING

434 9th AVENUE WEST  
PALMETTO, FLORIDA 34221  
PHONE (941) 729-5691  
FAX (941) 729-5692  
WWW.UGARTEARCHITECTURE.COM  
— AA-C001654 —

COVER SHEET

SOUTHWEST WATER  
RECLAMATION FACILITY  
MANATEE COUNTY, FLORIDA



## INDEX TO SHEETS

**ARCHITECTURAL**  
A201 PLANS, SECTIONS, AND DETAILS

**STRUCTURAL**  
S1 GENERAL NOTES  
S1.01 TYPICAL DETAILS  
S2 PLANS AND SECTIONS

**CIVIL**  
1 SITE PLAN  
2 GENERAL NOTES  
3 DEMOLITION, ESCP & BMP PLAN  
4 DETAILS

## REVISIONS

ISSUED FOR  
BIDDING

PROJECT NO: 2017-61  
DATE: 08/13/18  
DRAWN BY: BL  
CHKD BY: DB/ICU

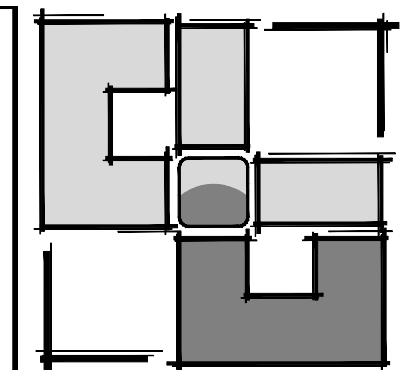
CARLOS D. UGARTE  
LIC. NO. AR-0010725

SHEET

**A001**

8/13/2018 5:05 PM CAD DWG FILE: A001 - COVER SHEET.DWG

COPYRIGHT: UGARTE & ASSOCIATES, INC. 2014



**UGARTE & ASSOCIATES, INC.**  
ARCHITECTURE  
PLANNING

434 9th AVENUE WEST  
PALMETTO, FLORIDA 34221  
PHONE (941) 729-5691  
FAX (941) 729-5692  
WWW.UGARTEARCHITECTURE.COM  
— AA-C001654 —

**PLANS, SECTIONS, AND  
DETAILS**

**SOUTHWEST WATER  
RECLAMATION FACILITY**  
MANATEE COUNTY, FLORIDA

**REVISIONS**

ISSUED FOR  
BIDDING

PROJECT NO: 2017-61  
DATE: 08/13/18  
DRAWN BY: BL  
CHKD BY: DB/ICU

CARLOS D. UGARTE  
LIC. NO. AR-0010725

SHEET

**A201**

8/13/2018 5:06 PM CAD DWG FILE: A201 - PLANS, SECTIONS, AND DETAILS.DWG

**SECTION 0510**

**METAL STAIRS**

**PART 1 - GENERAL**

**1.1 DESCRIPTION**

- A. Section specifies steel stairs with railings.
- B. Types:
  1. Industrial stairs: open.

**1.2 RELATED WORK**

- A. Concrete fill for treads and platforms: Section 03300, CAST-IN-PLACE CONCRETE.

**1.3 SUBMITTALS**

- A. Shop Drawings: Show design, fabrication details, installation, connections, material, and size of members.

**1.4 APPLICATION PUBLICATIONS**

- A. The publications listed below form a part of this specification to the extent referenced. The publications are referenced in the text by basic designation.
- B. American Society for Testing and Materials (ASTM):
  - A36/A36M-04..... Structural Steel
  - A47-99 (R2004)..... Ferritic Malleable Iron Castings
  - A48-03..... Gray Iron Castings
  - A53-04..... Pipe, Steel, Black and Hot-Dipped Zinc-Coated Welded and Seamless
  - A307-04..... Carbon Steel Bolts and Studs, 60000 psi Tensile Strength
  - A653/A653M-04..... Steel Sheet, Zinc Coated (Galvanized) or Zinc Alloy Coated (Galvannealed) by the Hot-Dip Process
  - A563-04..... Carbon and Alloy Steel Nuts
  - A1008-04..... Steel, Sheet, Cold-Rolled, Carbon, Structural, High-Strength, Low-Alloy
  - A786/A786M-00..... Rolled Steel Floor Plates
  - A1011-04..... Steel, Sheet and Strip, Strip, Hot-Rolled Carbon, Structural, High-Strength, Low-Alloy
- C. American Welding Society (AWS):
  - D1.1-00..... Structural Welding Code-Steel
  - D1.3-98..... Structural Welding Code-Steel
- D. The National Association of Architectural Metal Manufacturers (NAAMM) Manuals:
  - Metal Bar Gratings (ANSINAAM MBG 531-03)
  - 2nd Edition-1965..... Pipe Railing Manual, Including Round Tube
- E. American Iron and Steel Institute (AISI):
  - Specification for the Design of Cold-Formed Steel Structural Members

**PART 2 - PRODUCTS**

**2.1 DESIGN CRITERIA**

- A. Design stairs to support a live load of 500 kg/m<sup>2</sup> (100 pounds per square foot).
- B. Structural design, fabrication and assembly in accordance with requirements of NAAMM Metal Stairs Manual, except as otherwise specified or shown.
- C. Design grating treads in accordance with NAAMM Metal Bar Grating Manual.
- D. Design pipe railings in accordance with NAAMM Pipe Railing Manual for 900 N (200 pounds) in any direction at any point.

**2.2 MATERIALS**

- A. Steel Pipe: ASTM A53, Standard Weight, zinc coated.
- B. Steel Grating: Metal bar type grating NAAMM BG.
- C. Sheet Steel: ASTM A1008.
- D. Structural Steel: ASTM A36.

**2.3 FABRICATION GENERAL**

- A. Fasteners:
  1. Conceal bolts and screws wherever possible.
- B. Welding:
  1. Structural steel, AWS D1.1 and sheet steel, AWS D1.3.
  2. Where possible, locate welds on unexposed side.
  3. Grind exposed welds smooth and true to contour of welded member.
  4. Remove welding spatter.
- C. Remove sharp edges and burrs.
- D. Fit stringers to head channel and close ends with steel plates welded in place where shown.

**2.4 RAILINGS**

- A. Fabricate railings, including handrails, from steel pipe with flush:
  1. Connections may be standard fittings designed for welding, or coped or mitered pipe with full welds.
  2. Wall handrails are provided under Section, METAL FABRICATIONS.
- B. Return ends of handrail to wall and close free end.
- C. Provide standard terminal castings where fastened to newel.
- D. Space intermediate posts not over six feet on center between end post.
- E. Fabricate handrail brackets from cast malleable iron.
- F. Provide standard terminal fittings at ends of post and rails.

**2.5 Not used.**

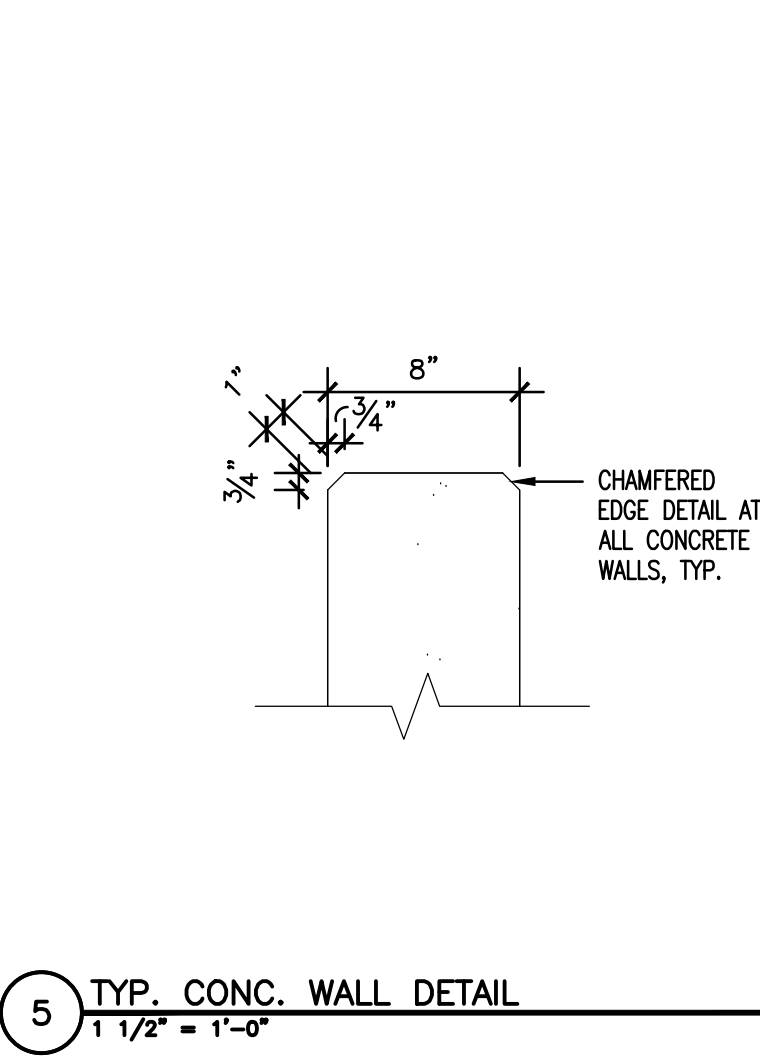
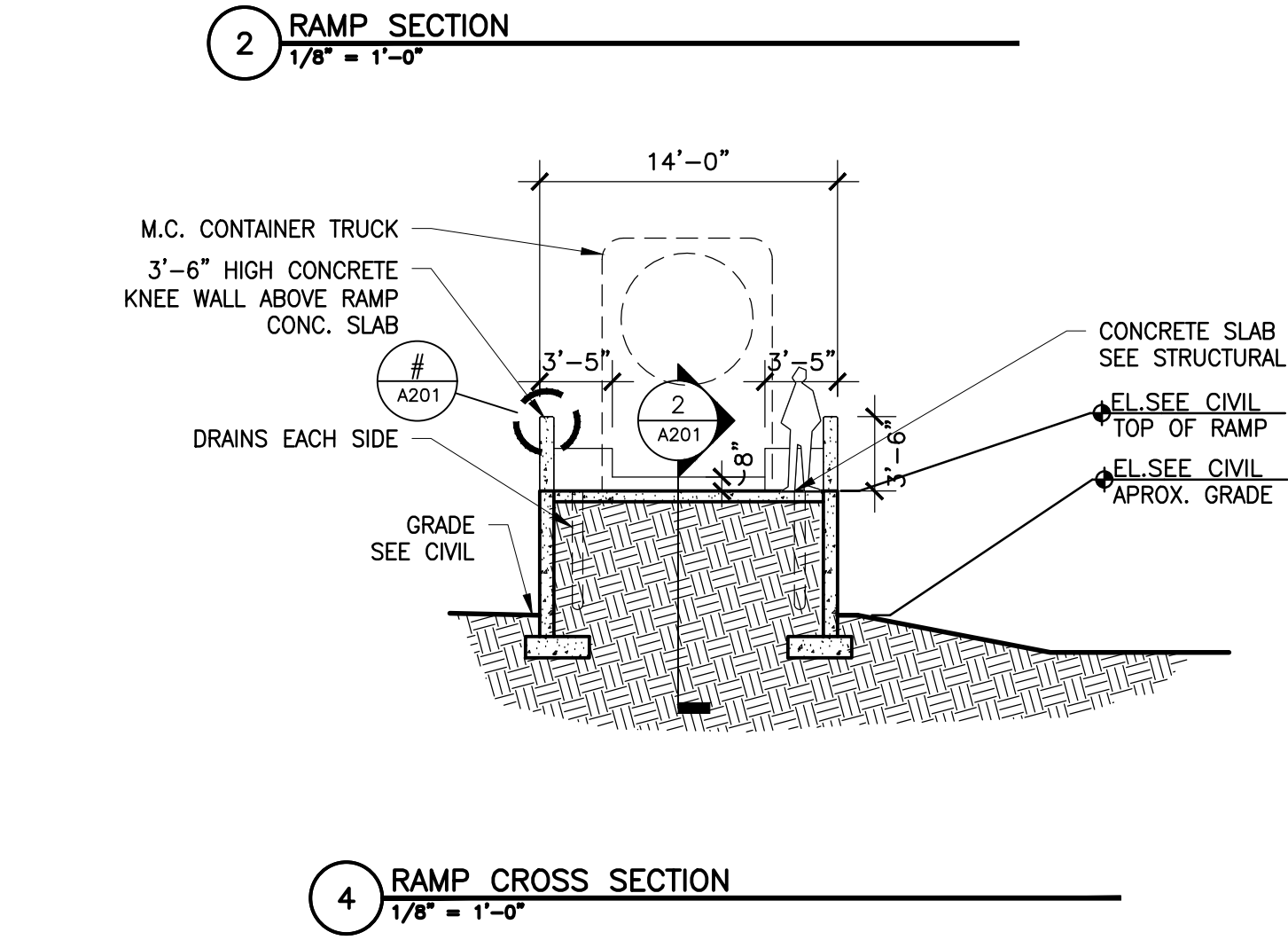
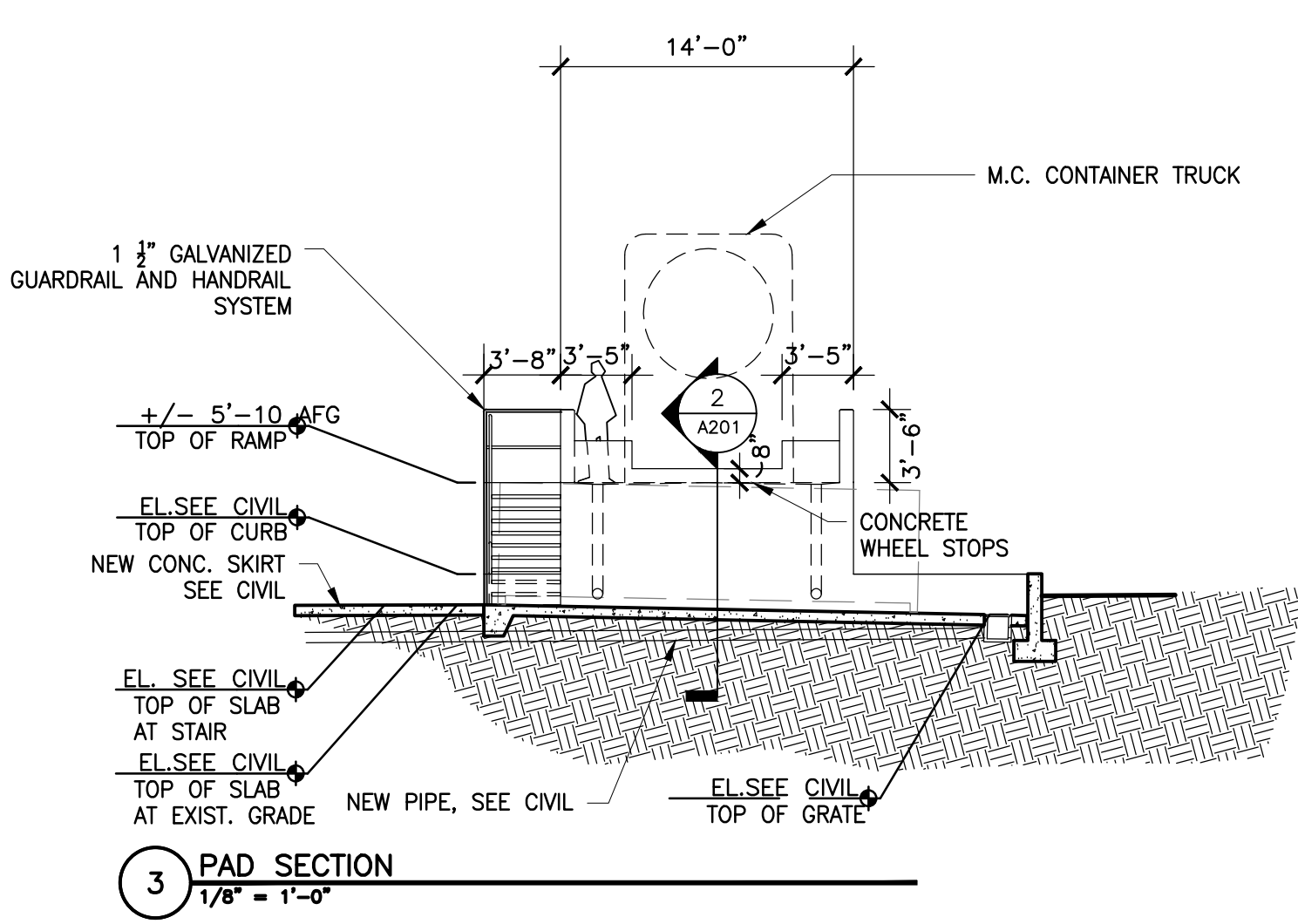
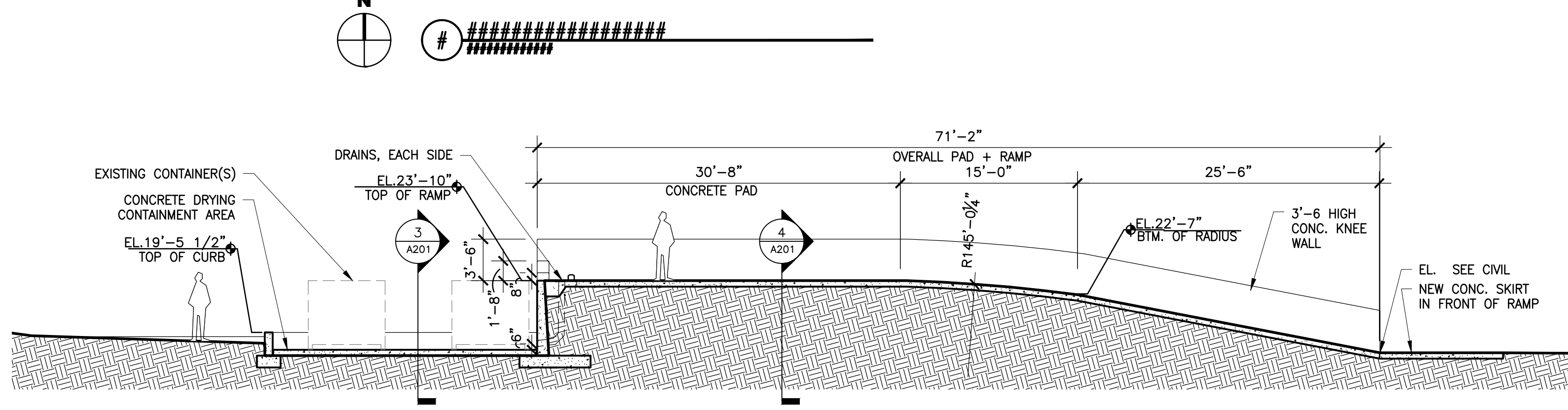
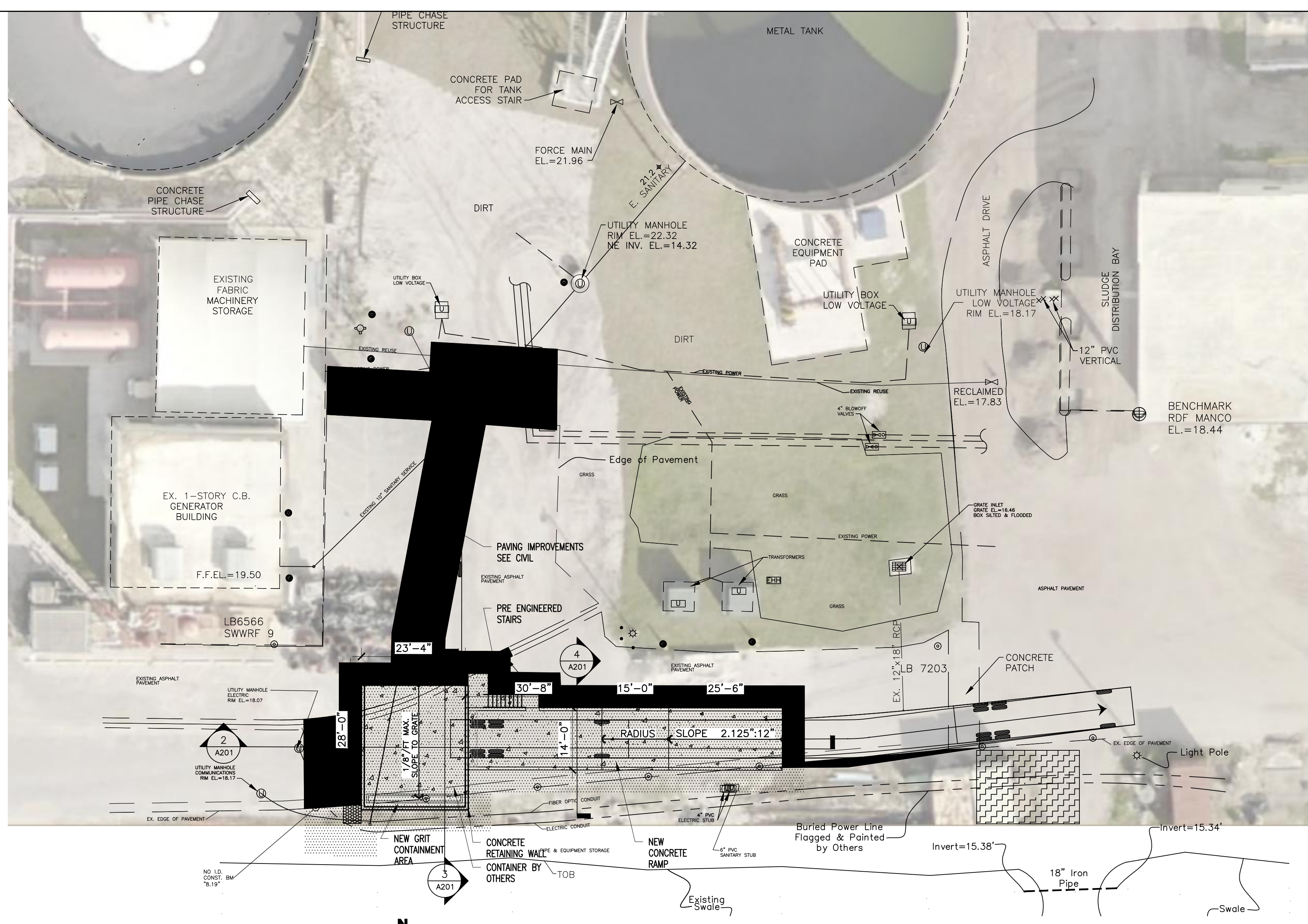
**2.6 INDUSTRIAL STAIRS**

- A. Provide treads, platforms, railings, stringers and other supporting members as shown.
- B. Treads and platforms of checkered steel floor plate:
  1. Turn floor plate down to form nosing on treads and edge of platform at head of stairs.
  2. Support treads and platforms with angles welded to plate.
  3. Do not leave exposed fasteners on top of treads or platform surfaces.
- C. Treads and platforms of steel grating:
  1. Fabricate steel grating treads and platforms in accordance with requirements of NAAMM Metal Bar Grating Manuals.
  2. Provide end banding bars, except where carrier angle are used at tread ends.
  3. Support treads by use of carrier plates or carrier angle. Use carrier plate and banding bars on exterior stairs.
  4. Provide abrasive nosing on treads and edge of platforms at head of stairs.
  5. Provide toe plates on platforms where shown.

**PART 3 - EXECUTION**

**3.1 STAIR INSTALLATION**

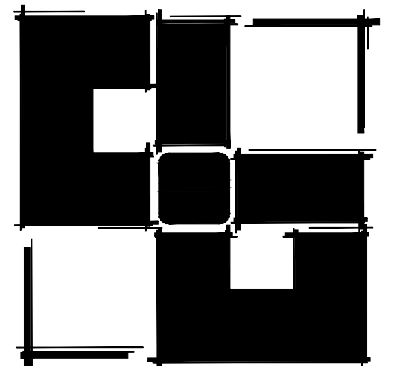
- A. Provide hangers and struts required to support the loads imposed.
- B. Perform job site welding and bolting as specified for shop fabrication.



8/13/2018 5:06 PM CAD DWG FILE: A201 - PLANS, SECTIONS, AND DETAILS.DWG







**UGARTE & ASSOCIATES, INC.**  
ARCHITECTURE  
PLANNING

434 9th AVENUE WEST  
PALMETTO, FLORIDA 34221  
PHONE (941) 729-5691  
FAX (941) 729-5692  
WWW.UGARTEARCHITECTURE.COM  
AA-C001654

**PLANS AND SECTIONS**

**SOUTHWEST WATER RECLAMATION FACILITY**

MANATEE COUNTY, FLORIDA

**REVISIONS**

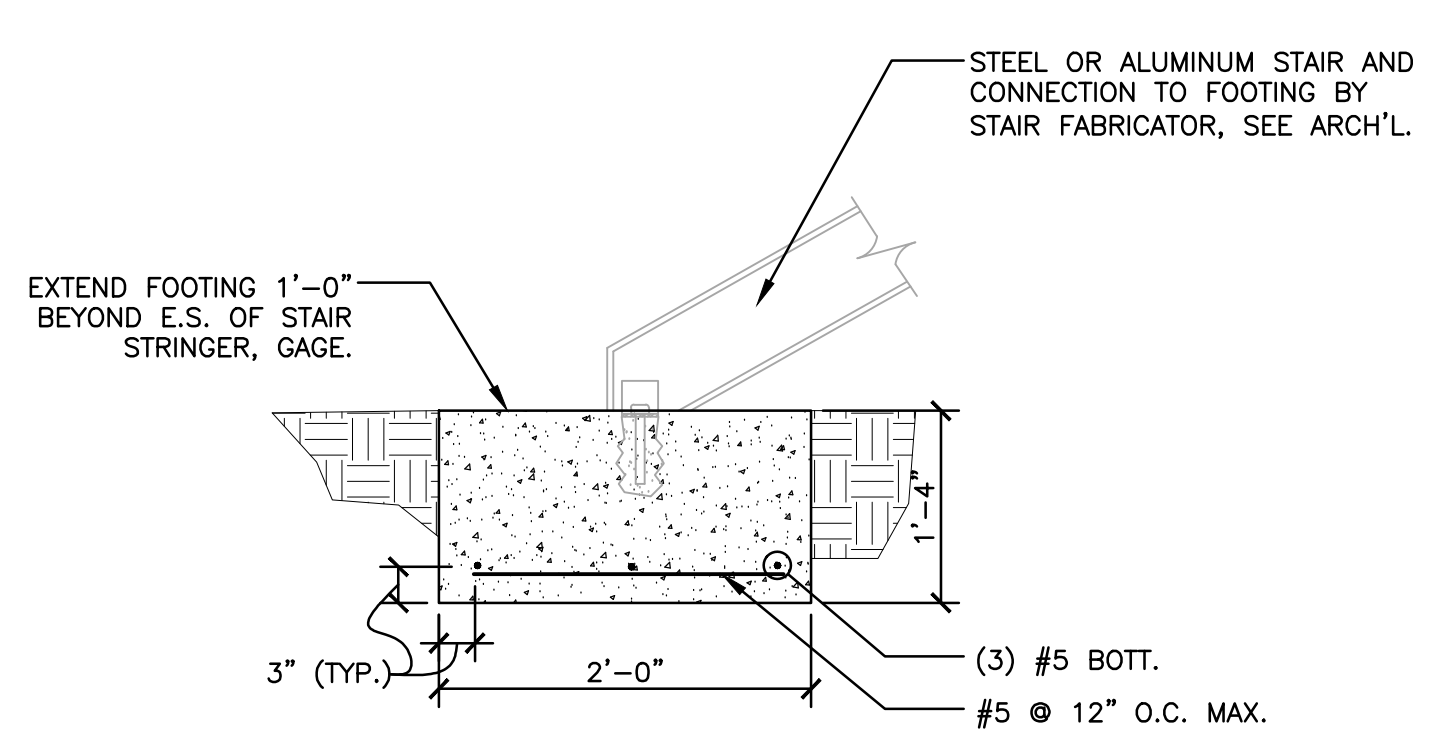
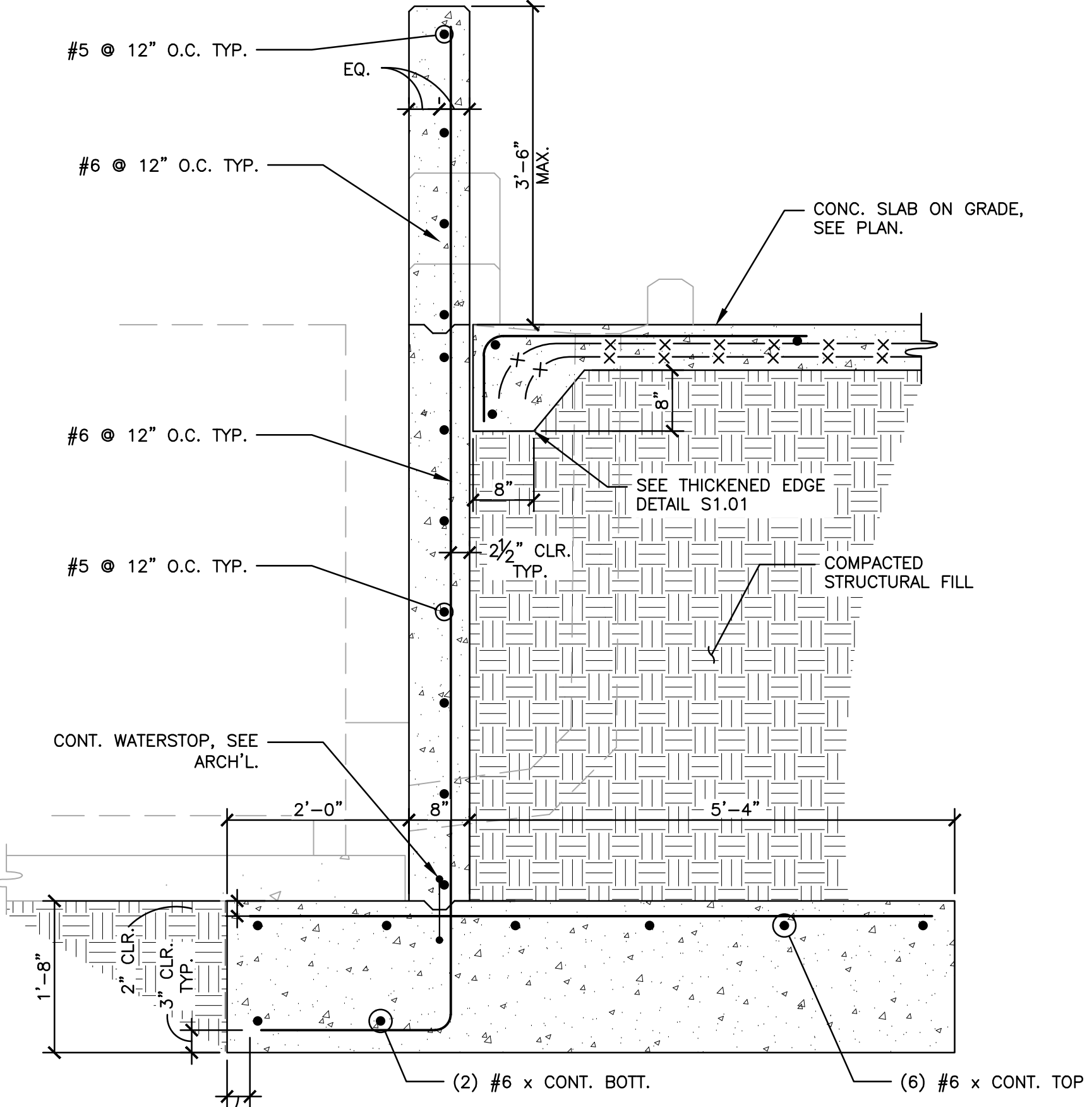
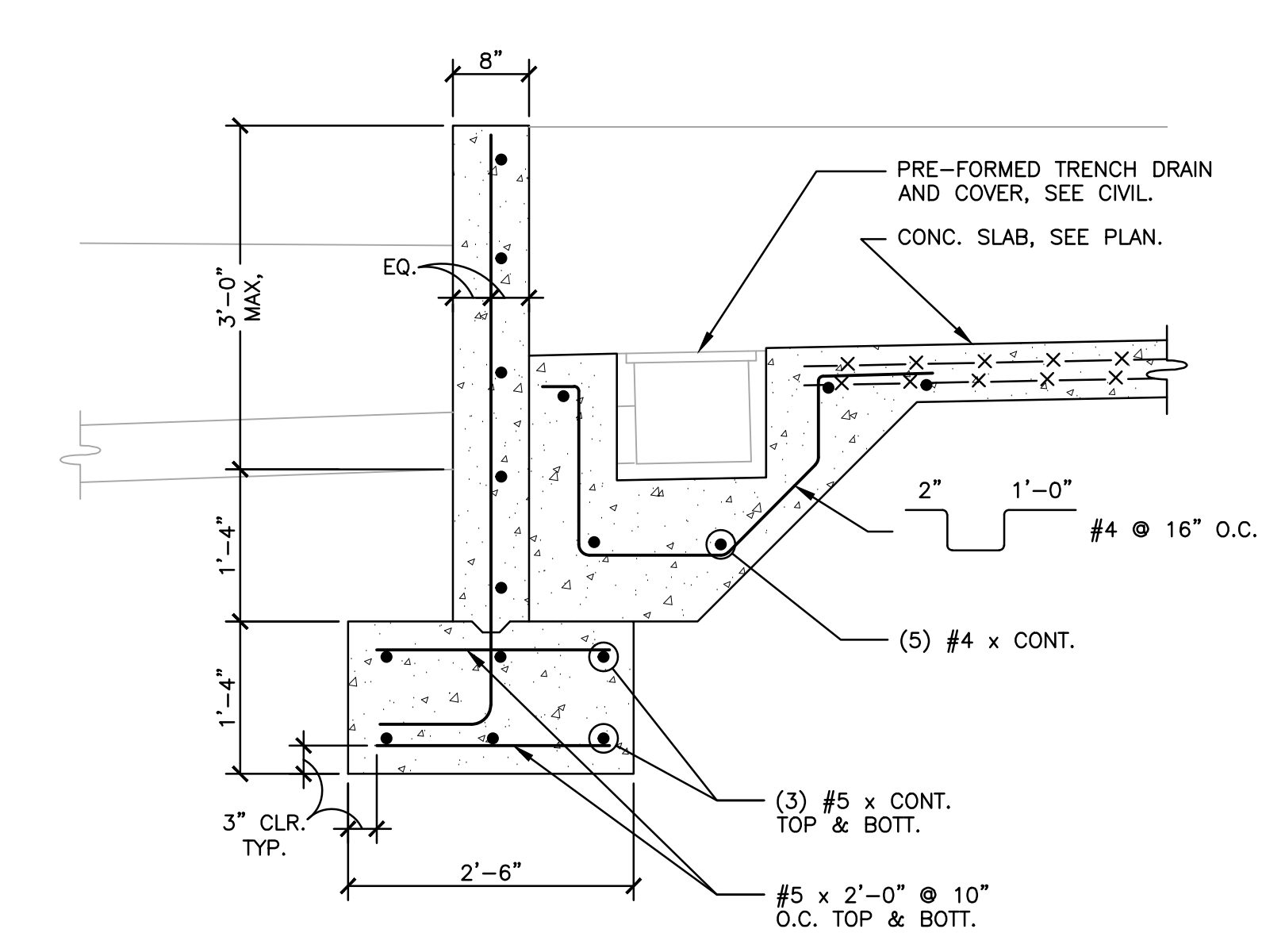
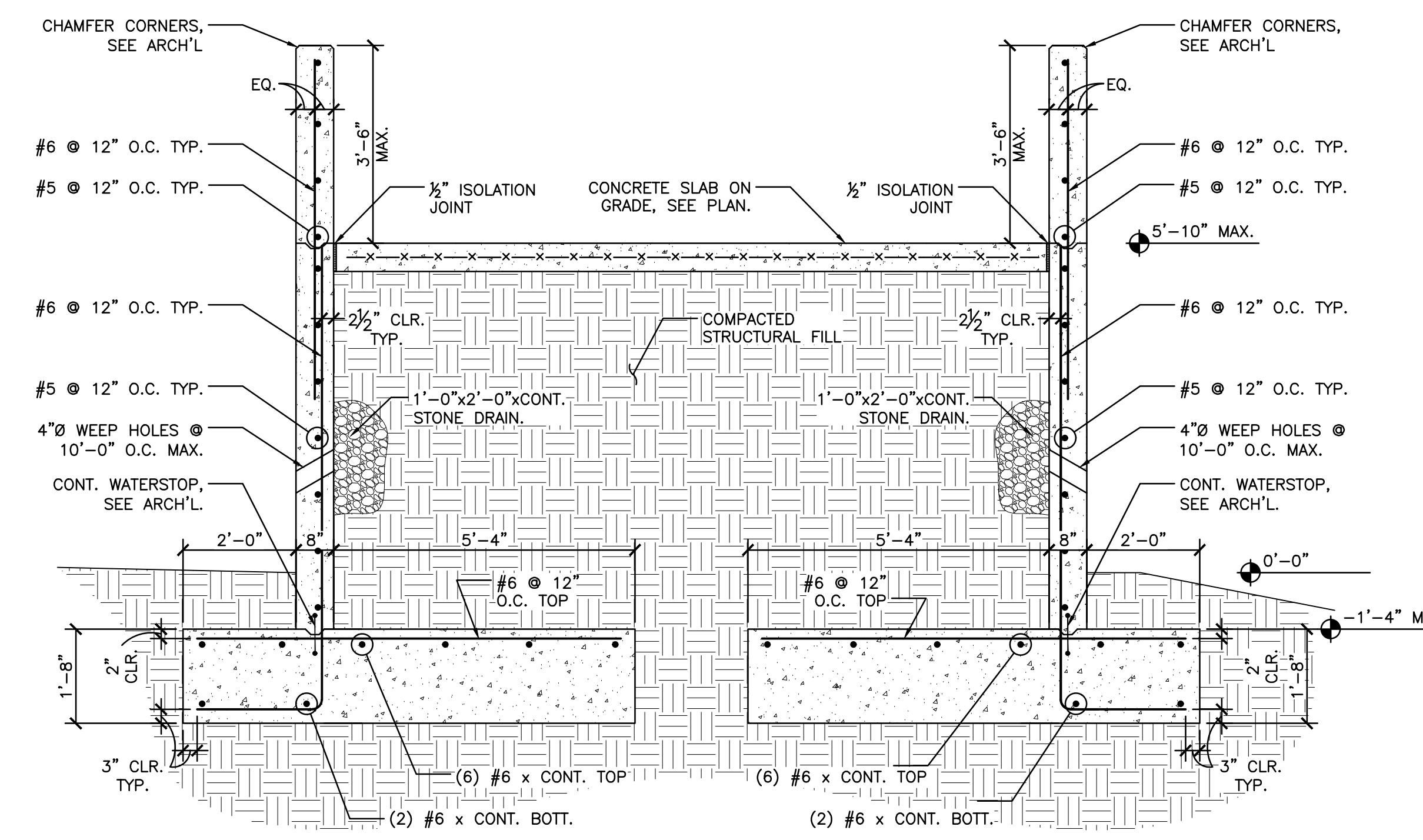
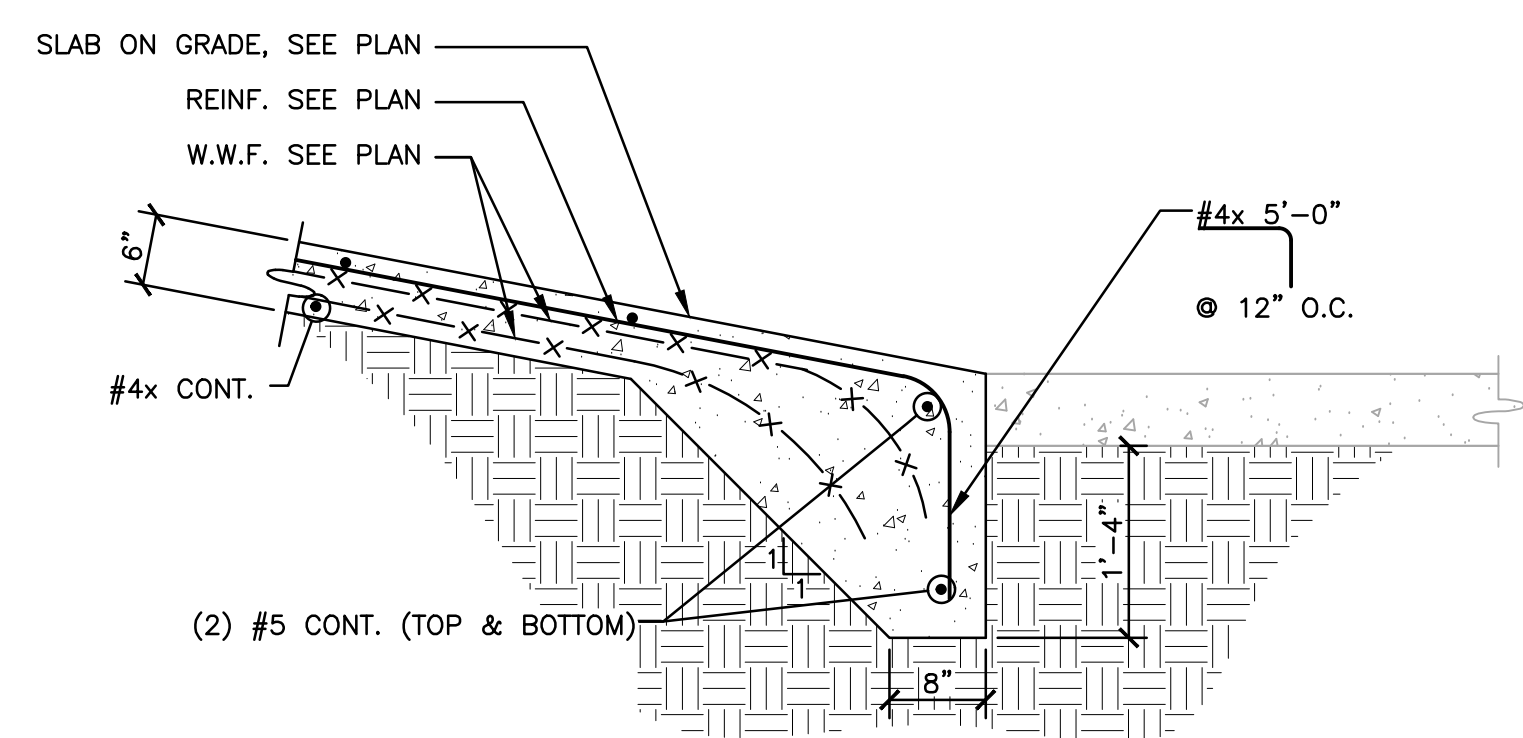
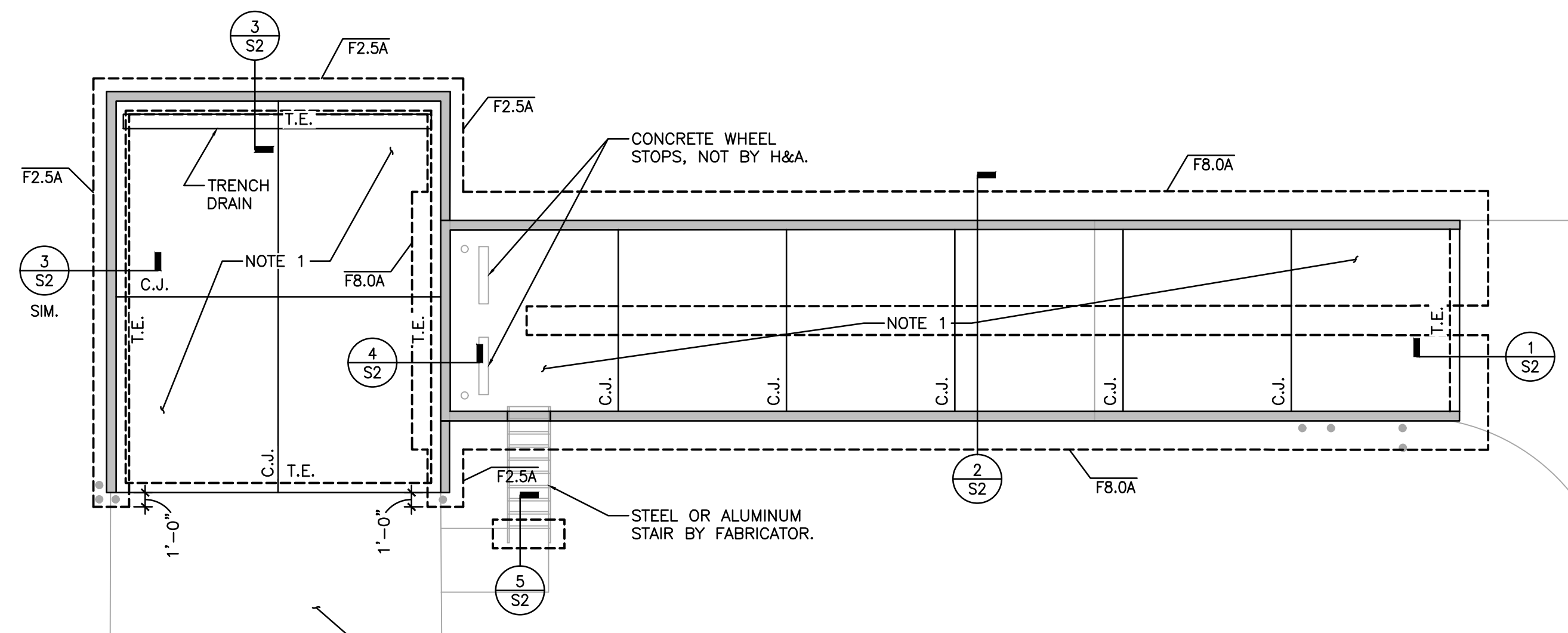
ISSUED FOR BIDDING - NOT FOR CONSTRUCTION

PROJECT NO: 2015-35  
DATE: 6/5/18  
DRAWN BY: DEM  
CHKD BY: KH

CAD DWG FILE: 060818 MANATEE COUNTY RAMP\_BID\_SET.DWG

SHEET

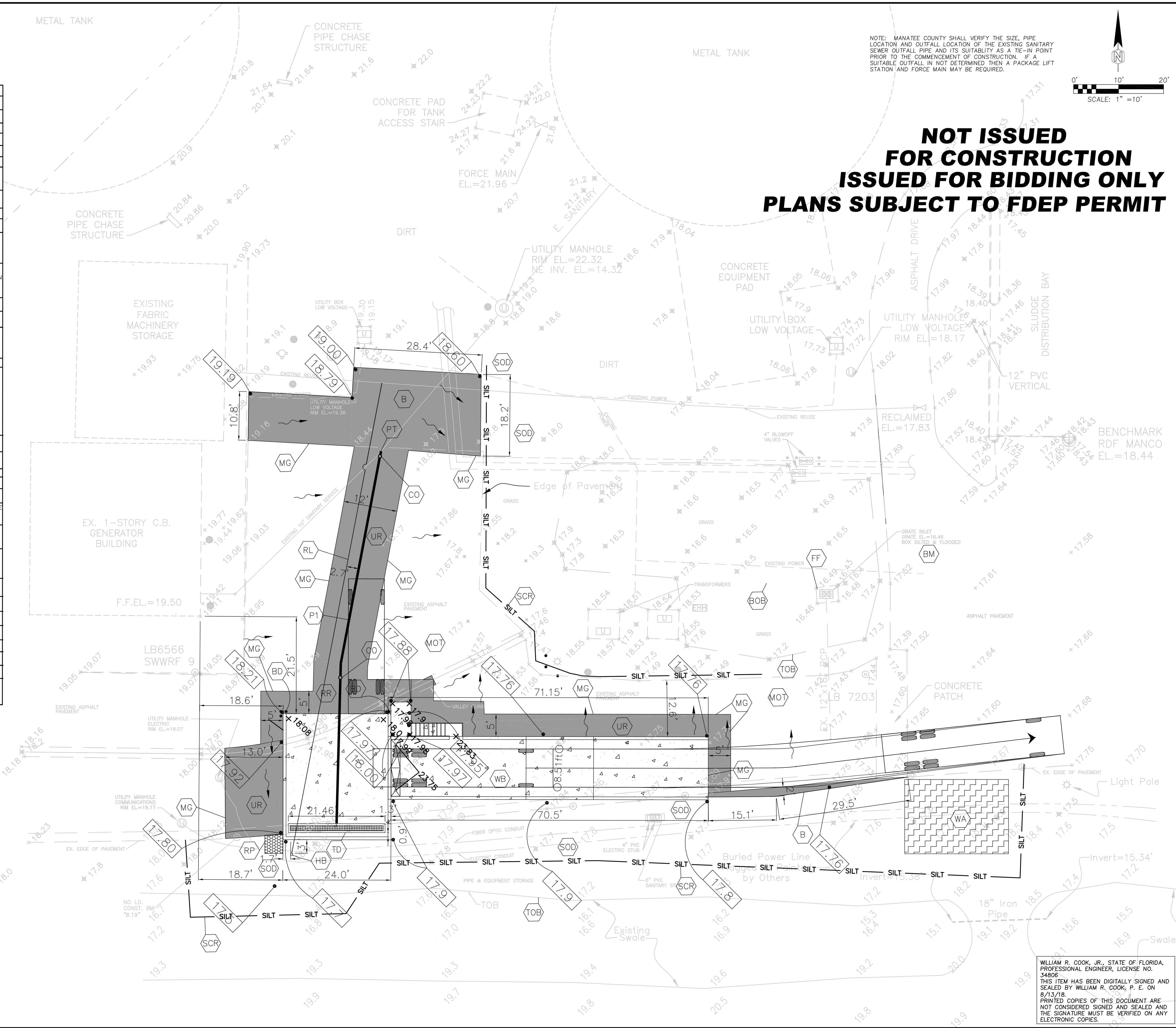
**S2**



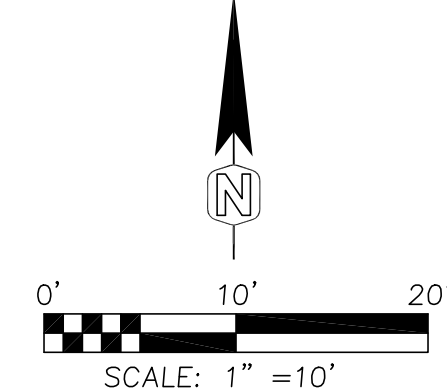
17HA117  
**HEES & ASSOCIATES, INC.**  
 1381 Fifth Street - Sarasota, Florida 34236  
 Telephone: (941) 955-4555 • Fax: (941) 955-9333  
 karl@heesassociates.com • www.heesassociates.com  
 C.O.A. #27043 © 2018 - Hees & Associates, Inc. All rights reserved.  
 TO THE BEST OF THE ENGINEER-OF-RECORD'S KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE DOCUMENTS COMPLIES WITH THE APPLICABLE MINIMUM BUILDING CODES.  
**NOTE:**  
 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.

LEGEND

SYMBOL	DESCRIPTION
B	BITUMINOUS PAVEMENT. SEE ASPHALT PAVEMENT DETAIL.
BD	CONSTRUCT BOLLARD. SEE ARCHITECT'S PLAN.
BM	BENCH MARK - SEE SURVEY PLAN.
BOB	BOTTOM OF BANK.
FF	DURING CONSTRUCTION CONTRACTOR SHALL CONSTRUCT FILTER FABRIC AROUND AND UNDER GRATE TO PREVENT FUGITIVE PARTICULATES FROM LEAVING SITE.
GR	CONSTRUCT GRAVEL FILLED BAGS FOR SILT SEDIMENT CONTROL AS REQUIRED.
HB	CONSTRUCT GARDEN VALVE WITH POST. SEE DETAIL.
HP	HIGH POINT.
MOT	MAINTENANCE OF TRAFFIC- REFER TO FDOT INDEXES 616, 628, 660 AND RELATED INDEXES. IN ADDITION CONTRACTOR SHALL NOTE MANATEE COUNTY TRANSPORTATION STANDARD SECTIONS 3.1.4, 3.1.5 & 406.0.
MG	CONTRACTOR SHALL MATCH PROPOSED GRADE TO EXISTING GRADE WITH SMOOTH TRANSITION AT 3 HORIZ. 1 VERT. SLOPE IN UNPAVED AREAS UNLESS OTHERWISE NOTED.
P1	CONSTRUCT 101'-6" DIA. SDR-26 PVC @ SLOPE 1.04%.
PT	CONSTRUCT TIE-IN TO EXISTING 10" DIA. PIPE WITH 10"x6" WYE AND FERNOCO COUPLINGS WITH CLEAN OUT.
RL	CONSTRUCT 1" ASTM D2737, PRESSURE CLASS 200, SDR 9, HOPE RECLAIM WATER SERVICE W/ SLEEVE TO INCLUDE TAP TO EXISTING RECLAIM WATER LINE, METER BOX, GARDEN VALVE AND MOUNTING TO POST. SEE DETAIL.
RP	CONSTRUCT ROCK RIPRAP. SEE DETAIL.
RR	CONSTRUCT SAW CUTS, PAVEMENT, ROCK, CONCRETE, SOD, SHRUB AND TREE REMOVAL AS REQUIRED FOR WORK TO 5' OUTSIDE OF PROPOSED RAMP AND PAVEMENT AREAS. ALL MATERIAL SHALL BE DISPOSED OF OFF SITE IN AN APPROVED AREA. SITE AREA SHALL BE CLEARED OF ALL ORGANIC SOILS AND MATERIALS AND MECHANICALLY ROOT BACKED TO A DEPTH OF 18" BELOW EXISTING GRADE TO REMOVE ALL ROOTS OR AS DIRECTED BY GEOTECHNICAL REPORT. CONTRACTOR SHALL LOWER EXISTING POWER AND REUSE LINES AS REQUIRED FOR PAVEMENT CONSTRUCTION.
SCR	SILT SCREEN SHALL BE LOCATED ON PROPERTY LINE OR AS INDICATED ON PLAN. SEE DETAIL.
SOD	SOD AREA: TOPSOIL, LIME, FERTILIZER AND SOD W/ BAHIA ALL AREAS DISTURBED BY CONSTRUCTION UNLESS OTHERWISE NOTED.
SWC	SWITCH CUT.
TD	TRENCH DRAIN. SEE DETAIL.
TOB	TOP OF BANK. CONTRACTOR SHALL NOTE COMPACTION REQUIREMENTS ON GENERAL NOTES SHEET.
UR	UTILITY ROAD CUT REPLACEMENT DETAIL SHALL BE USED IN THE AREAS NOTED ON PLAN WITH PAVEMENT SECTION APPLYING REGARDLESS OF UTILITY INSTALLATION. SEE DETAIL.
WA	TEMPORARY WASH DOWN AREA SHALL BE 8" DEEP WITH SIDE SLOPES AT 3 HORIZ.:1 VERT. AND SHALL BE REMOVED AFTER CONCRETE CONSTRUCTION.
WB	CONSTRUCT RAMP FACILITY. CONTRACTOR SHALL NOTE ARCHITECT'S PLANS FOR RAMP DIMENSION, CONCRETE TYPE, STRENGTH AND THICKNESS, JOINT PLAN AND GRADING.
100.00	EXISTING SPOT ELEVATIONS PAVED AND UNPAVED.
100.0	PROPOSED SPOT ELEVATIONS PAVED AND UNPAVED.
→	FLOW DIRECTIONAL INTENT.
---	EXISTING FEATURES.
- - -	EXISTING ITEMS TO BE REMOVED.
~~~~~	PLAN CHANGES.
○	PLAN CALLOUTS FOR ITEMS SHOWN ON THIS SHEET.



NOTE: MANATEE COUNTY SHALL VERIFY THE SIZE, PIPE LOCATION AND OUTFALL LOCATION OF THE EXISTING SANITARY SEWER OUTFALL PIPE AND ITS SUITABILITY AS A TIE-IN POINT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF A SUITABLE OUTFALL IS NOT DETERMINED THEN A PACKAGE LIFT STATION AND FORCE MAIN MAY BE REQUIRED.



**NOT ISSUED  
FOR CONSTRUCTION  
ISSUED FOR BIDDING ONLY  
PLANS SUBJECT TO FDEP PERMIT**

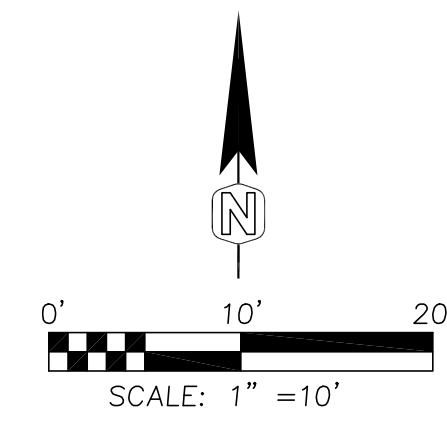
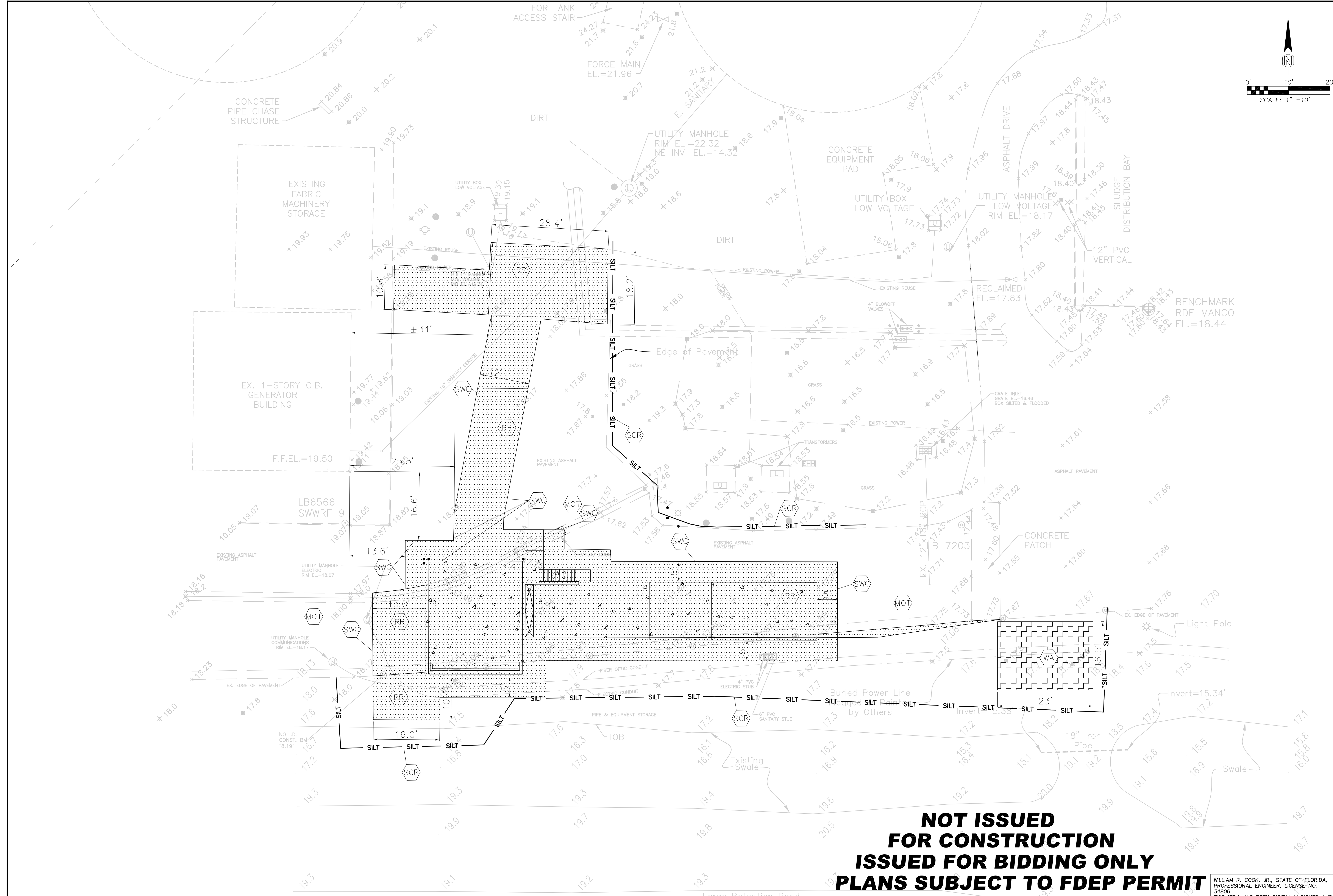
**WRCook Engineering, LLC**  
 3025 AVENUE B, SUITE 200, TAMPA, FL 33605  
 PHONE: (813) 224-4000  
 FAX: (813) 224-4001  
 WWW.WRCOOKENGINEERING.COM

**PROJECT:** SOUTHWEST WATER RECLAMATION FACILITY  
**DATE:** MAY, 2018  
**SCALE:** AS SHOWN  
**PROJECT NO.:** SWWR 66TH  
**SHEET NO.:** 2628

**WILLIAM R. COOK, JR., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 34806**  
 THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLIAM R. COOK, P. E. ON 8/13/18.  
 PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

REVISION	DATE	DESCRIPTION
7		
6		
5		
4		
3		
2	8/12/18	RELOCATED RAMP AND ADDED DETAILS.
1		
NO.		





**NOT ISSUED  
FOR CONSTRUCTION  
ISSUED FOR BIDDING ONLY  
PLANS SUBJECT TO FDEP PERMIT**

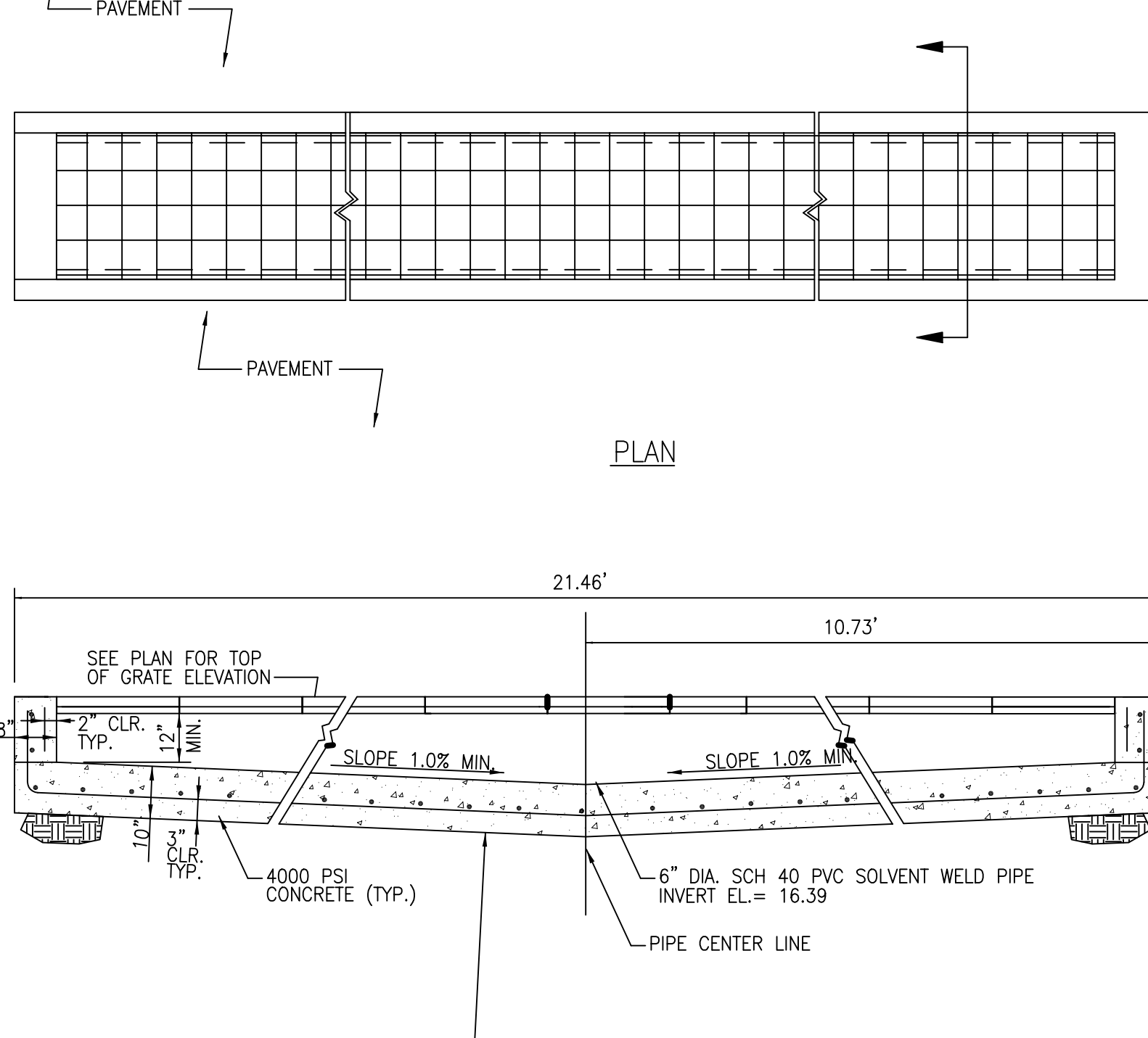
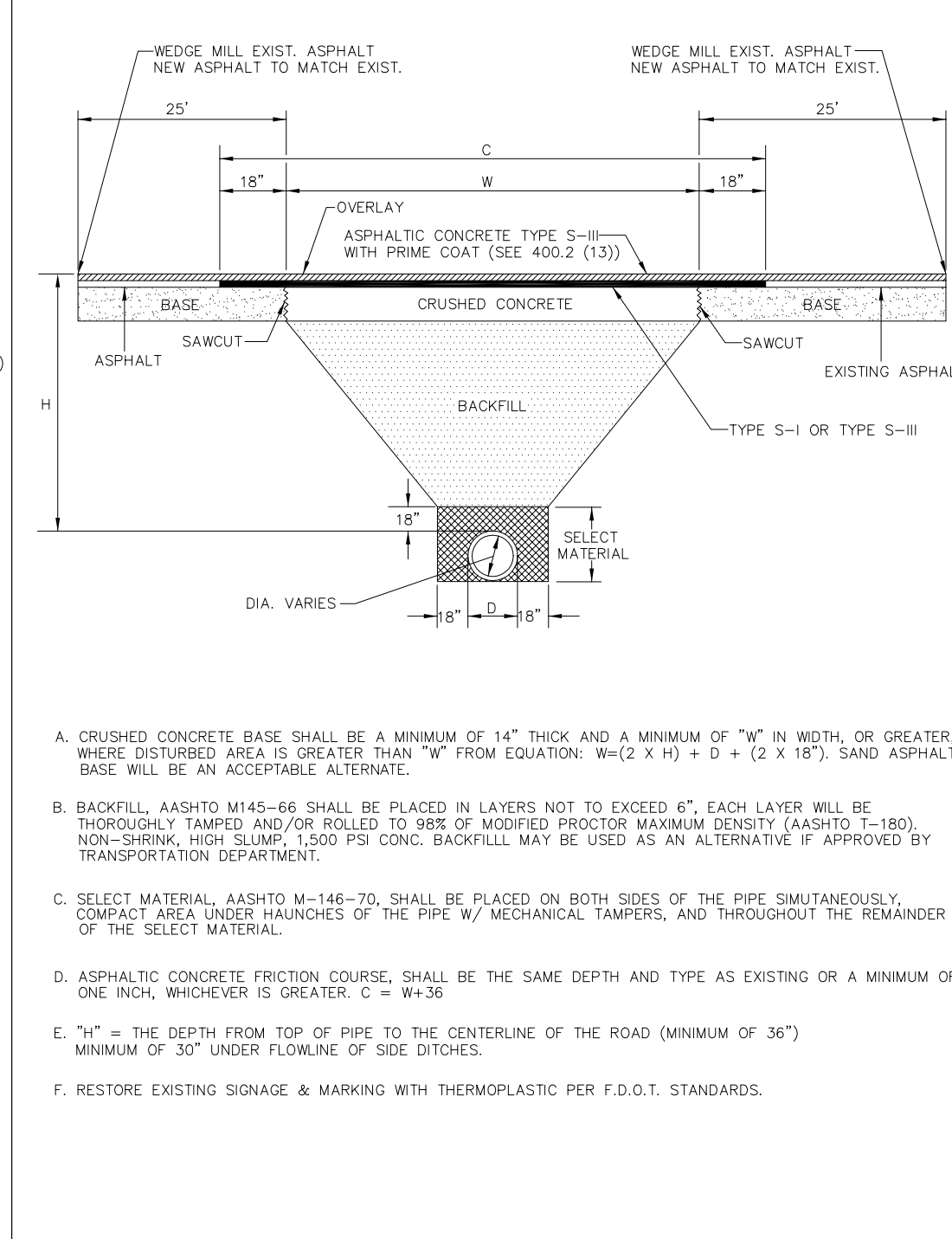
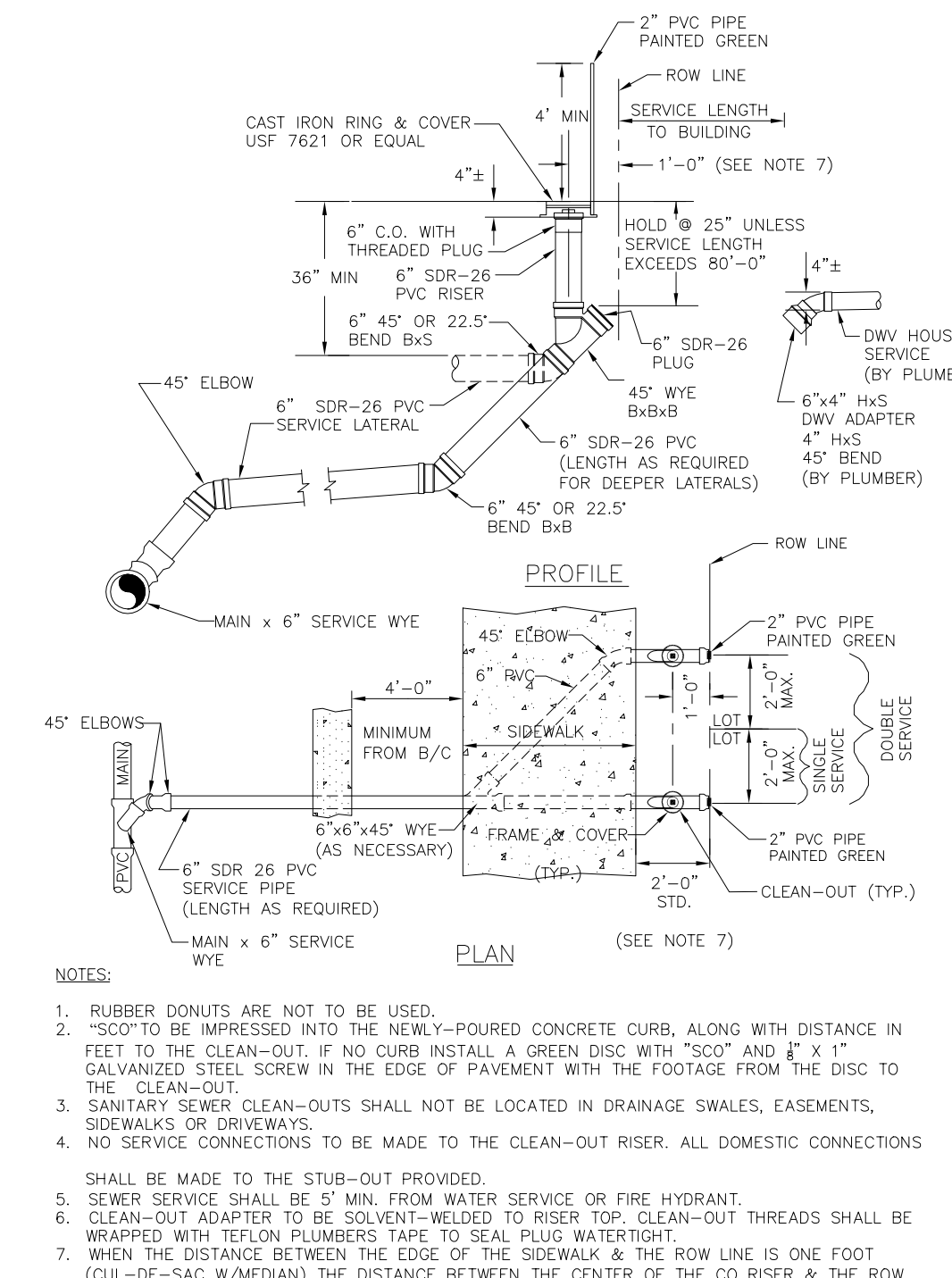
WILLIAM R. COOK, JR., STATE OF FLORIDA,  
PROFESSIONAL ENGINEER, LICENSE NO.  
34806  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND  
SEALED BY WILLIAM R. COOK, P. E. ON  
8/13/18.  
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED AND  
THE SIGNATURE MUST BE VERIFIED ON ANY  
ELECTRONIC COPIES.

REVISIONS																																							
NO.	DATE	BY	REVISIONS																																				
1	8/12/18	[Signature]	RELOCATED RAMP AND ADDED DETAILS.																																				
2																																							
3																																							
4																																							
5																																							
6																																							
7																																							
TITLE																																							
SOUTHWEST WATER RECLAMATION FACILITY																																							
<b>DEMOLITION, ESCP &amp; BMP PLAN</b>																																							
SEC. 8, TWP. 35 S., RGE. 17 E., MANATEE COUNTY, FL																																							
<b>WRCook Engineering, LLC</b> <small>1000 W. MANATEE AVENUE, SUITE 200, PALM BAY, FL 32909          PHONE: (321) 221-4429          FAX: (321) 221-4430          CERTIFICATE OF AUTHORIZATION 2018</small>																																							
<table border="0" style="width: 100%;"> <tr> <td style="width: 15%;">DESIGNED BY</td> <td style="width: 15%;">MRC</td> <td style="width: 15%;">DATE</td> <td style="width: 15%;">MAY 2018</td> <td style="width: 15%;">PROJECT NO.</td> <td style="width: 15%;">SWRF 66TH</td> <td style="width: 15%;">SHEET</td> <td style="width: 15%;">3</td> </tr> <tr> <td>DRAWN BY</td> <td>MRC</td> <td>DATE</td> <td></td> <td>FLORIDA REGISTRATION NO.</td> <td>34806</td> <td>CERTIFICATE OF AUTHORIZATION</td> <td>NO. 25628</td> </tr> <tr> <td>CHECKED BY</td> <td>MRC</td> <td>DATE</td> <td></td> <td>FLORIDA REGISTRATION NO.</td> <td>34806</td> <td>CERTIFICATE OF AUTHORIZATION</td> <td>NO. 25628</td> </tr> <tr> <td>APPROVED BY</td> <td>MRC</td> <td>DATE</td> <td></td> <td>FLORIDA REGISTRATION NO.</td> <td>34806</td> <td>CERTIFICATE OF AUTHORIZATION</td> <td>NO. 25628</td> </tr> </table>								DESIGNED BY	MRC	DATE	MAY 2018	PROJECT NO.	SWRF 66TH	SHEET	3	DRAWN BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628	CHECKED BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628	APPROVED BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628
DESIGNED BY	MRC	DATE	MAY 2018	PROJECT NO.	SWRF 66TH	SHEET	3																																
DRAWN BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628																																
CHECKED BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628																																
APPROVED BY	MRC	DATE		FLORIDA REGISTRATION NO.	34806	CERTIFICATE OF AUTHORIZATION	NO. 25628																																



- GENERAL NOTES**
- All county road construction shall conform to these Manatee County Department of Transportation Standards.
  - Asphaltic Concrete Type S: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 331  
Asphaltic Concrete Type III: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 333.  
(A) Superpave mixes equivalent to F.D.O.T. Type S mixes are an accepted alternative upon directors approval.  
(B) Surface material will be consistent with existing surface, or better.
  - Limerock Base Course: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 200.
  - Crushed concrete base course is acceptable unless otherwise noted.
  - Stabilized Sub-Grade: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 941.
  - Drainage: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 941.  
Soft, yielding or super-saturated material that will not readily compact shall be considered unacceptable for backfill. This is at the discretion of the field engineer. This type of existing material must be excavated from the road footprint to a depth as set by an approved testing lab.
  - Soil Cement: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 270, excluding Sub-Section 270-4.3.1 ("Mix in place").
  - Concrete Gutters: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 520.
  - Topsoil: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 987.  
Sodding: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 575.  
Grassing: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 570.  
(A) Entire R/W between road and property line, including median, shall be fertilized (1000 lbs. of slow-release 8-12-6 per acre), and seeded (30 lbs. Bahia and 30 lbs. of Ryegrass per acre) and mulched, or sodded, as directed by the engineer.  
(B) Hydromulch: Shall be per Florida Department Of Transportation Specifications Section 571.
  - Visibility Triangles: Shall be in accordance with the Manatee County Land Development Code 1994; Section 713, latest revision, and Section 600.7-600.9.
  - Handicap Ramps shall meet Florida Accessibility Standards, and Section 302 series.
  - Prime coat shall be applied @ a rate of 0.2 gal/sy. Tack coat of 0.08 gal/sy rate to be applied for overlay of existing roads.

- GENERAL NOTES (CONT.)**
- All the signage, striping and signals (FDOT) shall conform to the latest revision of the Florida Department Of Transportation Standard Specifications For Road And Bridge Construction, the Manual On Uniform Traffic Control Devices, F.D.O.T. Design Standards and the Manatee County Transportation And Drainage Standards, Traffic Supplemental Specifications.
  - Prime coat shall be applied @ a rate of 0.2 gal/sy. Tack coat of 0.08 gal/sy rate to be applied for overlay of existing roads.
  - In general, all signing, marking, and traffic control devices shall conform to the Florida Department of Transportation Roadway And Traffic Standard Specifications For Road And Bridge Construction (latest revision) and the Manual On Uniform Traffic Control Devices For Streets And Highways (latest revision), as well as the Manatee County Traffic Supplemental Specifications.
  - Street radii requirement shall be in accordance with page 402.0, however radius should be a minimum of 50' where industrial or bus traffic (of 5% AADT or greater) is anticipated.
  - Cement treated aggregate base, see section 403.3.
  - Two lifts of asphalt is the preferred method of construction in area where extensive construction equipment will utilize the roads. A performance band may be required for second lift. The first lift shall be 1-1/4", the second lift shall be 3/4" for residential. The second lift for industrial shall be 1-1/4". Lift thickness shall be specified for each road type.
  - Any road widening (including divided roads) will require full width milling.
  - All stormwater pipe shall be installed behind the curb or edge of pavement and within the right of way.
  - The base, sub-base and asphalt thickness shown for 6-lane, 4-lane, Minor Collector, Rural Industrial and Urban Industrial are minimums. If the engineer can demonstrate a reduction based upon an analysis of equal single axle load, then it may be considered.
  - Minimum of two pvc schedule 40 conduits (2.0" min. dia.) shall be installed for all directions at the intersections of all thoroughfare roadways per the direction of the Manatee County's Traffic Engineer. Additional signal inter-connect conduit may be required between intersections at the direction of Manatee County.

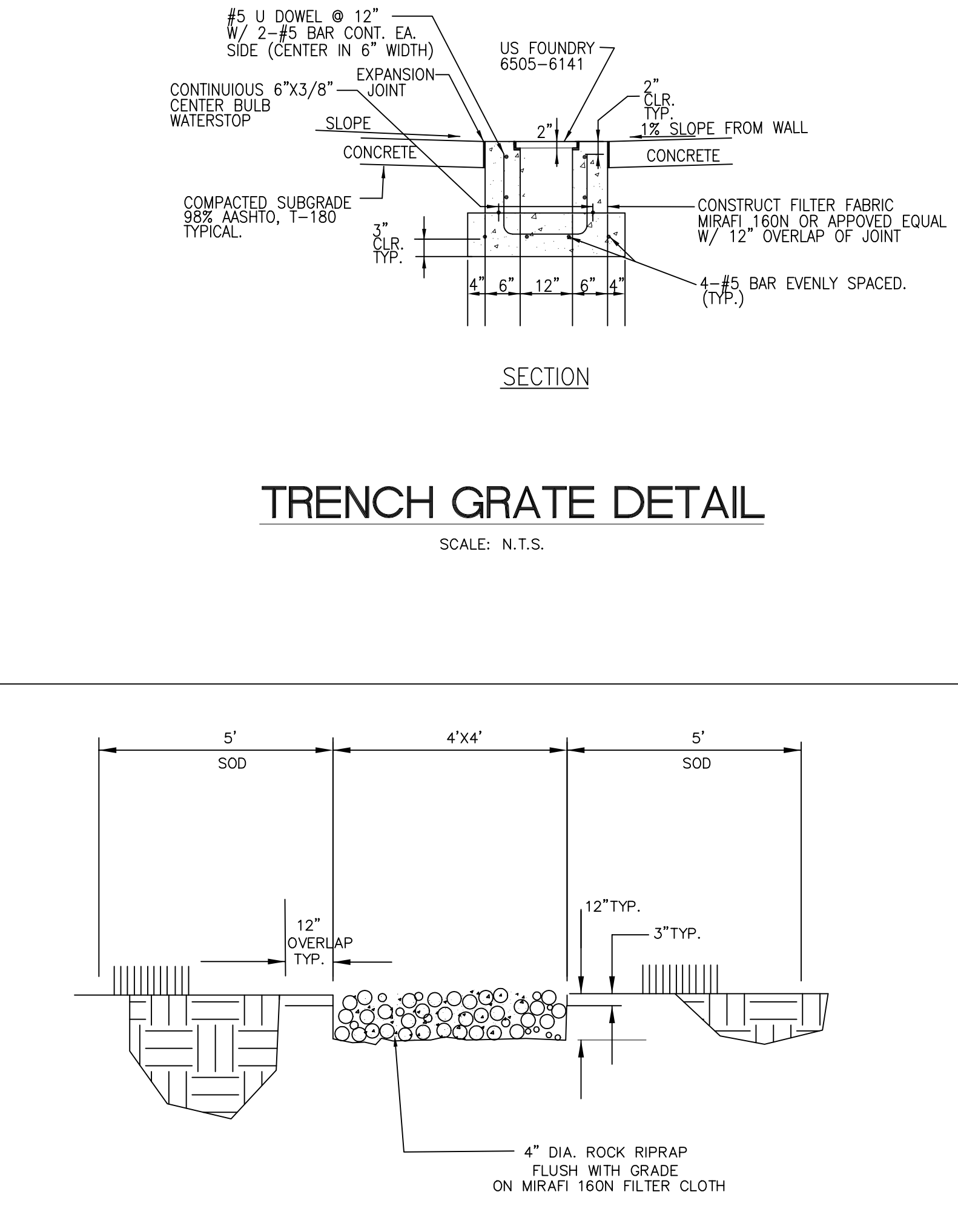
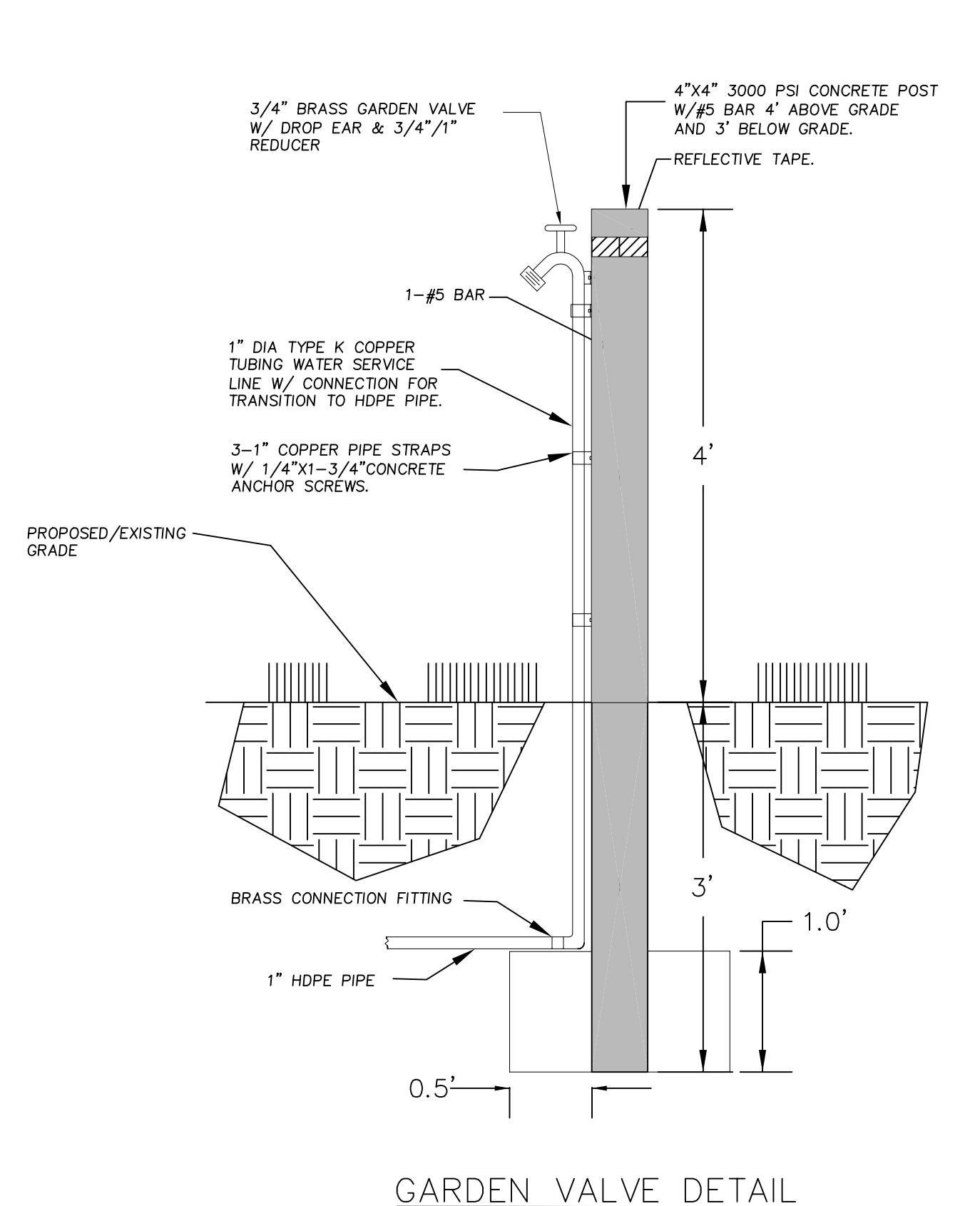
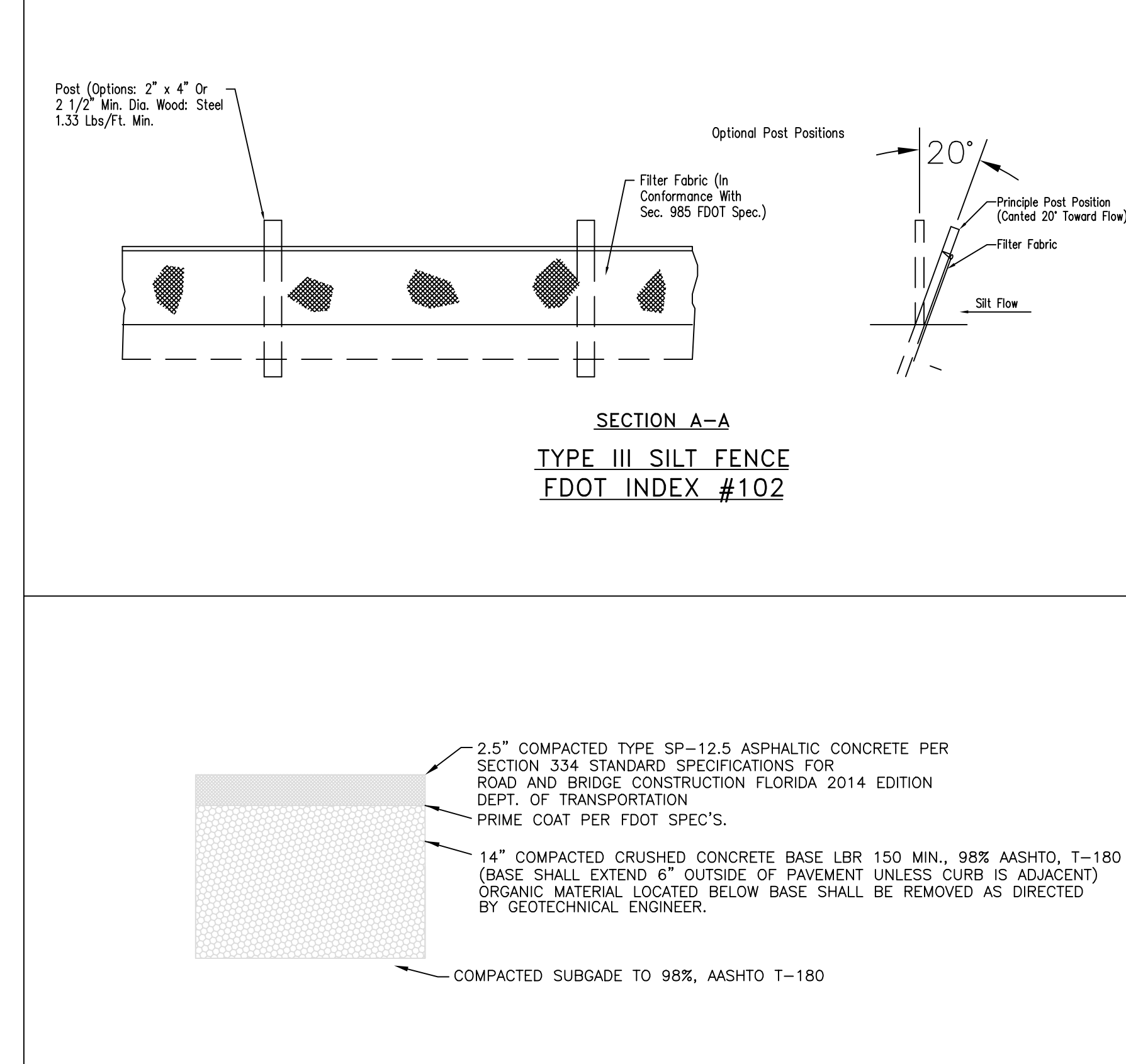
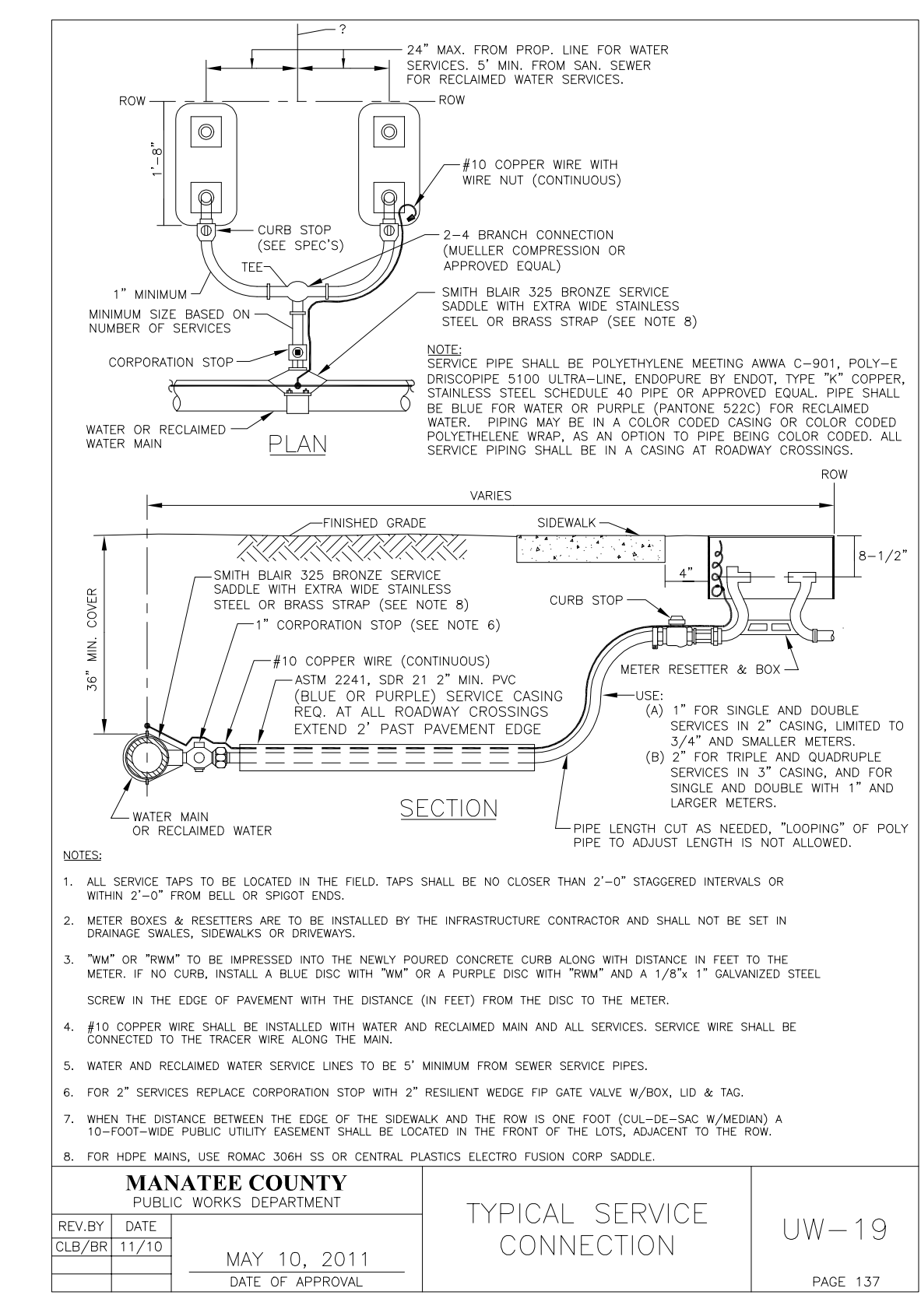


MANATEE COUNTY TRANSPORTATION DEPARTMENT		GENERAL NOTES	400.1
REVISION	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		GENERAL NOTES	400.2
REVISION	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		SINGLE AND DOUBLE SERVICE CONNECTION	US-13
REVISION	DATE		
	MAY 10, 2011		
	DATE OF APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		UTILITY ROAD CUT REPLACEMENT	403.2
REVISION	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



**NOT ISSUED  
FOR CONSTRUCTION  
ISSUED FOR BIDDING ONLY**

**ASPHALT PAVING DETAIL**

NTS

**PLANS SUBJECT TO FDEP PERMIT**

**GARDEN VALVE DETAIL**

SCALE: NOT TO SCALE

NOTE: THIS DETAIL IS FOR THE GARDEN VALVE CONNECTION FOR THE WATER SUPPLY TO THE RAMP AND THE METER BOX IS NOT REQUIRED. CONTRACTOR SHALL CONNECT GARDEN VALVE TO THE SERVICE LINE AS INDICATED IN GARDEN VALVE DETAIL.

**RIPRAP DETAIL**

NOT TO SCALE

WILLIAM R. COOK, JR., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 34806  
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY WILLIAM R. COOK, P. E. ON 8/13/18.  
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TITLE		SOUTHWEST WATER RECLAMATION FACILITY	
DETAILS		DETAILS	
DESIGNED	WRC	DATE	8/12/18
DRAWN	WRC	RELOCATED RAMP AND ADDED DETAILS.	
CHECKED	WRC		
APPROVED	WRC		
SCALE	AS SHOWN		
DATE	MAY, 2018		
PROJECT NO.	SWR666TH		
SHEET	4		