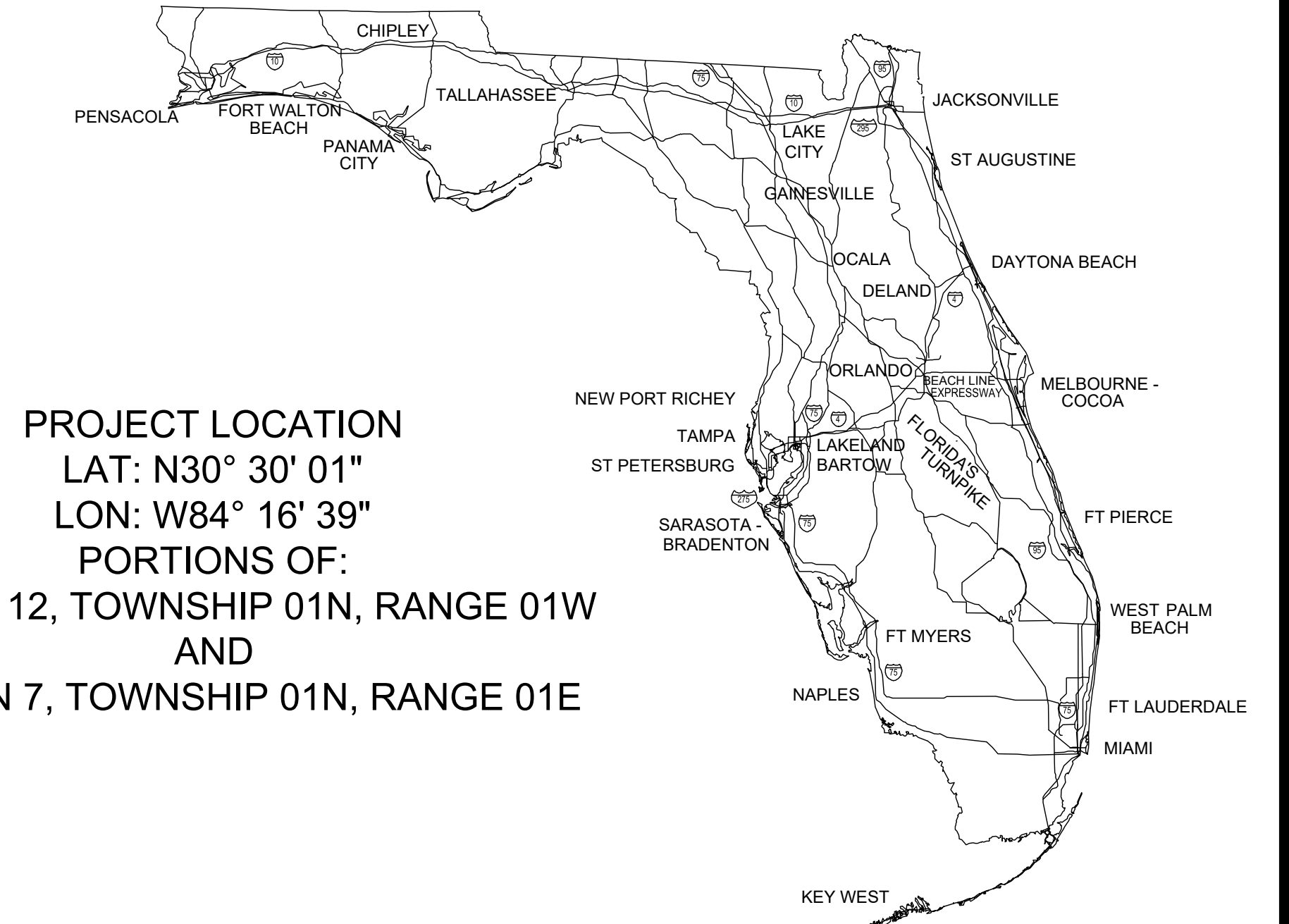


INDEX OF SHEETS

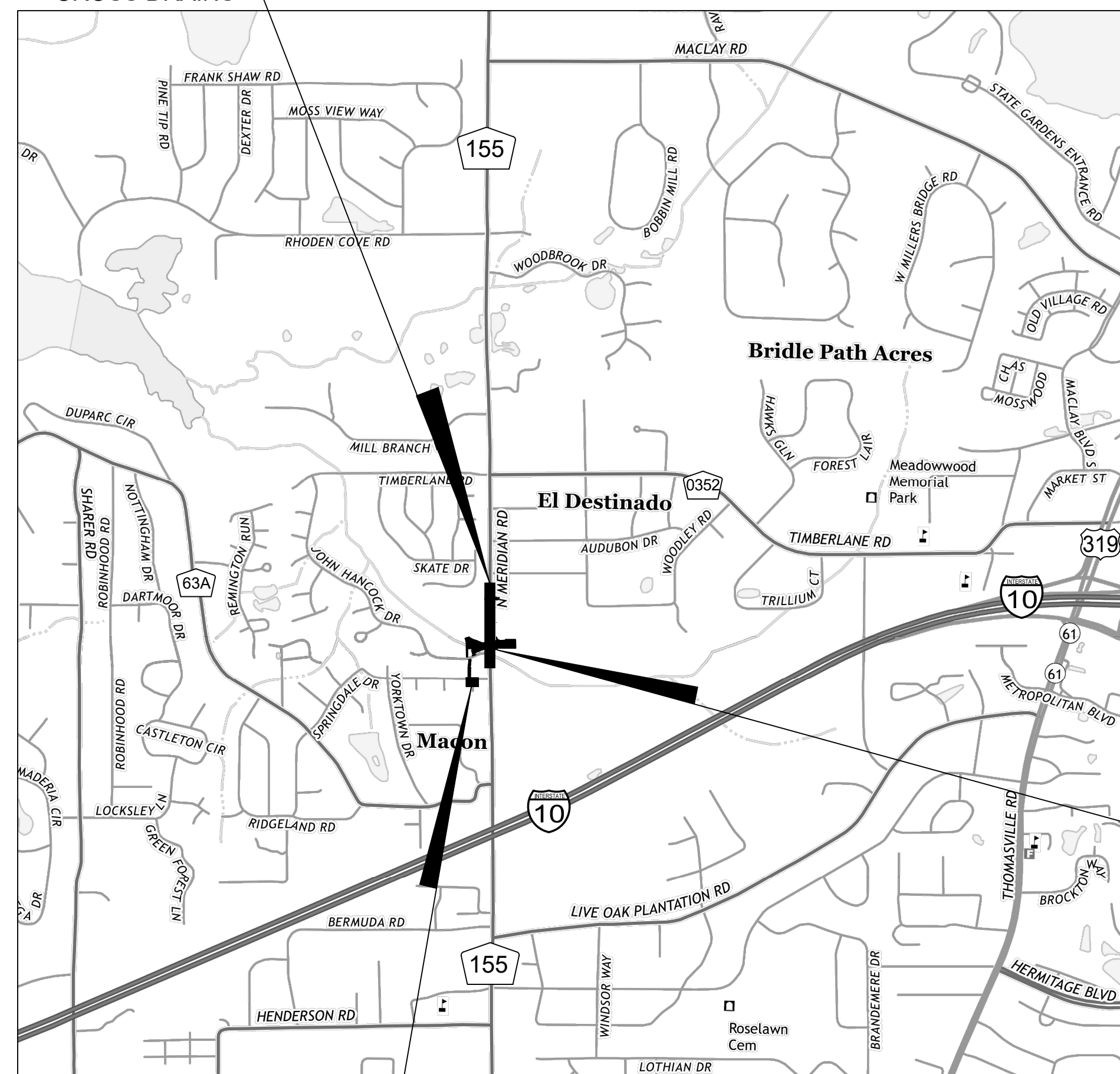
SHEET NUMBER	DESCRIPTION
CIVIL SHEETS	
G-000	COVER
G-101 - G-102	GENERAL NOTES
G-103	LEGEND & ABBREVIATIONS
G-104	AERIAL MAP
V-101 - V-108	EXISTING CONDITIONS PLANS
C-001	KEY SHEET
C-101	DEMOLITION AND EROSION CONTROL PLAN FOR MERIDIAN ROAD
C-102	DEMOLITION AND EROSION CONTROL PLAN FOR MERIDIAN ROAD AND GOODWILL
C-103	DEMOLITION AND EROSION CONTROL PLAN FOR MERIDIAN ROAD AND WEST BASIN
C-104	DEMOLITION AND EROSION CONTROL PLAN FOR MERIDIAN ROAD FOR WEST BASIN
C-105	DEMOLITION AND EROSION CONTROL PLAN AT JOHN HANCOCK DRIVE
C-106	DEMOLITION AND EROSION CONTROL PLAN AT LEXINGTON ROAD NORTH
C-201	DRAINAGE CULVERT PLAN AND PROFILE AT MERIDIAN ROAD STA. 27+46.50
C-202	DRAINAGE CULVERT SECTIONS AT MERIDIAN ROAD STA. 27+46.50
C-203	EAST BASIN SITE PLAN
C-204	EAST BASIN PROFILE
C-205	EAST BASIN SECTIONS
C-206	WEST BASIN PLAN AND PROFILE
C-207	WEST BASIN SECTIONS
C-208	WEST BASIN SECTIONS
C-209	LEXINGTON ROAD DRAINAGE CULVERT PLAN AND PROFILE
C-210	LEXINGTON ROAD DRAINAGE CULVERT SECTIONS
C-211	LEXINGTON ROAD NORTH CULVERT PLAN AND PROFILE
C-301	UTILITY ADJUSTMENT STA 21+05 TO 23+30
C-302	UTILITY ADJUSTMENT STA 21+05 TO 23+30
C-303	UTILITY ADJUSTMENT STA 23+30 TO 25+50
C-304	UTILITY ADJUSTMENT STA 25+50 TO 27+94
C-305	UTILITY ADJUSTMENT LEXINGTON ROAD
C-401	NORTH MERIDIAN ROAD PAVEMENT MARKING PLAN
C-402	SOUTH MERIDIAN ROAD PAVEMENT MARKING PLAN
C-403	LEXINGTON ROAD PAVEMENT MARKING PLAN
C-501	CIVIL DETAILS
C-502	DRAINAGE STRUCTURE DETAILS/CIVIL DETAILS
C-503	ARMORMAX DETAILS
C-504	SCOURLOK DETAILS A
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C-506	FDOT CIP RETAINING WALL
C-507 - C-510	FDOT BOX CULVERT DETAILS
C-511 - C-517	FDOT DRAINAGE DETAILS
C-518	FDOT CURB DETAILS
C-519	FDOT FENCE DETAILS
C-520 - C-525	FDOT GUARDRAIL DETAILS
C-526	EROSION CONTROL DETAILS
C-527	BEST MANAGEMENT PRACTICES
STRUCTURAL SHEETS	
S-101	RETAINING WALL
LANDSCAPE SHEETS	
LS1.0	LANDSCAPE PLAN
LS2.0	LANDSCAPE PLAN
LS3.0	LANDSCAPE PLAN
LS4.0	LANDSCAPE PLAN
LS5.0	LANDSCAPE PLAN
LS6.0	LANDSCAPE PLAN
LS7.0	LANDSCAPE PLAN
IR1.0	IRRIGATION PLAN
IR2.0	IRRIGATION PLAN
IR3.0	IRRIGATION PLAN
IR4.0	IRRIGATION DETAIL SHEET

LEON COUNTY BOARD OF COUNTY COMMISSIONERS PUBLIC WORKS DEPARTMENT CR 155 (MERIDIAN ROAD) DRAINAGE IMPROVEMENTS CONTRACT PLANS



PROJECT LOCATION
 LAT: N30° 30' 01"
 LON: W84° 16' 39"
 PORTIONS OF:
 SECTION 12, TOWNSHIP 01N, RANGE 01W
 AND
 SECTION 7, TOWNSHIP 01N, RANGE 01E

PROJECT LOCATION
 NORTH MERIDIAN
 CROSS DRAINS



PROJECT LOCATION
 LEXINGTON RD. DRAINAGE
 IMPROVEMENTS

LOCATION MAP



PROJECT LOCATION
 MERIDIAN ROAD DRAINAGE
 IMPROVEMENTS

COMMISSIONERS:

WILLIAM C. PROCTOR, JR
 DISTRICT 1

JIMBO JACKSON
 DISTRICT 2

RICK MINOR
 DISTRICT 3

BRYAN DESLOGE
 DISTRICT 4

KRISTIN DOZIER
 DISTRICT 5

MARY ANN LINDLEY
 AT-LARGE

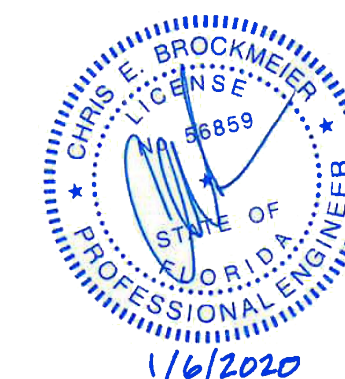
NICK MADDOX
 AT-LARGE

VINCENT S. LONG
 COUNTY ADMINISTRATOR

BRENT PELL, P.E.
 PUBLIC WORKS DIRECTOR

Stantec Consulting Services Inc.

2316 KILLEARN CENTER DRIVE, SUITE 102
 TALLAHASSEE, FL 32309
 Tel. 850.878.5001
 www.stantec.com C.A.No. 27013

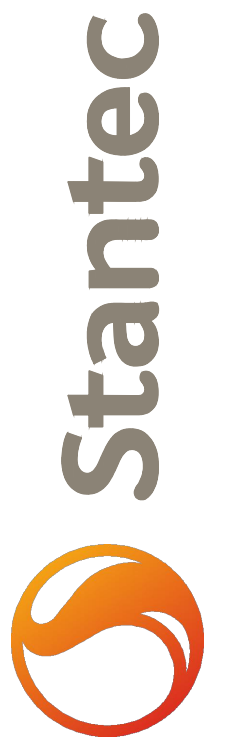


GOVERNING DESIGN STANDARDS:
 FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS
 FOR BRIDGE CONSTRUCTION, 2019 EDITION.

GOVERNING STANDARD SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS
 FOR BRIDGE CONSTRUCTION, 2019 EDITION.

NOTE:
 THE SCALE OF THESE PLANS MAY HAVE
 CHANGED DUE TO REPRODUCTION.

ENGINEER OF RECORD
 CHRIS E. BROCKMEIER, P.E.
 P.E.No. 56859



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www.stantec.com C.A. No. 270.13

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ABBREVIATIONS

Table of abbreviations including ACP (Asbestos Cement Pipe), AFF (Above Finished Floor), AHU (Air Handling Unit), ALUM (Aluminum), ALT (Alternate), APPROX (Approximate), BD (Board), BLDG (Building), BLK (Block), BLKG (Blocking), BLT (Built), BRK (Brick), BRKR (Breaker), BSMT (Basement), CJ (Control Joint), CLG (Ceiling), CLR (Clear), CMP (Corrugate Metal Pipe), CMU (Concrete Masonry Unit), CO (Clean Out), CONC (Concrete), CU (Copper), CU FT (Cubic Foot), CU IN (Cubic Inch), CU YD (Cubic Yard), DIA (Diameter), DBL (Double), DBT (Dry-Bulb Temperature), DEG (Degree), DEPT (Department), DF (Drinking Fountain), DISC (Disconnect), DIP (Ductile Iron Pipe), DL (Dead Load), DN (Down), DS (Down Spout), DWG (Drawing), EF (Exhaust Fan), FFE (Finish Floor Elevation), ERCP (Elliptical Reinforced Concrete Pipe), EX (Existing), EXH (Exhaust), EXP JT (Expansion Joint), EXT (Exterior), FH (Fire Hydrant), FIN (Finish), FL (Floor), FLUOR (Fluorescent), FP (Fireplace), FR (Fire Rating), FT (Foot/Feet), FTG (Footing), GALV (Galvanized), GB (Grade Break), GFI (Ground Fault Circuit Interrupter), GOVT (Government), GRFL (Ground Floor), GV (Gate Valve), GYP (Gypsum), HC (Hollow Core), HDG (Hot Dipped Galvanized), HDPE (High Density Polyethylene), HDR (Header), HDWR (Hardware), HOR, H (Horizontal), HP (Horsepower), HT (Height), HTR (Heater), HV (High Voltage), HVAC (Heating, Ventilating and Air Conditioning), HWY (Highway), ID (Inside Diameter), IN (Inch), INCAND (Incandescent), INCL (Included), INSUL (Insulation), INT (Interior), INV EL (Invert Elevation), JST (Joist), KD (Kiln Dried), KW (Kilowatt), KWH (Kilowatt Hour), LAM (Laminated), LAV (Lavatory), LB (Pound), LTG (Lighting), LGTH (Length), LIN (Linear), LL (Live Load), LNDG (Landing), MANUF (Manufacture), MAX (Maximum), MEG (Meet Existing Grade), MES (Mitered End Section), MF (Mill Finish), MIN (Minimum), MJ (Mechanical Joint), MLDG (Molding), MHW (Mean High Water), MHHW (Mean Higher High Water), MLW (Mean Low Water), MLLW (Mean Lower Low Water), MSL (Mean Sea Level), MOD (Modification), NTS (Not to Scale), NO./# (Number), OA (Overall), OC (On Center), OD (Outside Diameter), OFC (Office), O/H (Over Head), OPP (Opposite), PARTN (Partition), PC (Portland Cement), PCF (Pounds Per Cubic Foot), PE (Professional Engineer), PERF (Perforate), PERP (Perpendicular), PL (Plate), PLG (Piling), PLYWD (Plywood), PNL (Panel), PREFAB (Prefabricated), PRELIM (Preliminary), PSF (Pounds Per Square Foot), PSI (Pounds Per Square Inch), PT (Pressure Treated), PVC (Polyvinyl Chloride), QS (Quarter Saw), R (Radius), RCP (Reinforced Concrete Pipe), RCPT (Receptacle), REBAR (Reinforcing Bar), REFRIG (Refrigeration), REINF (Reinforcing), RFG (Roofing), RGH (Rough), RM (Room), RO (Rough Opening), RS (Rough Sawn), SC (Solid Core), SCH (Schedule), SDG (Siding), SECT (Section), SFTWD (Softwood), SGD (Sliding Glass Door), SH (Shingles), SPEC (Specification), SPR (Spruce), SQ (Square), SQ FT (Square Foot), SQ IN (Square Inch), SQ YD (Square Yard), SS (Stainless Steel), STL (Steel), SUB FL (Subfloor), SUP (Supply), SW (Switch), SYM (Symmetrical), SYP (Southern Yellow Pine), SYS (System), S4S (Surfaced Four Sides), TBM (Temporary Benchmark), TCP (Terra Cotta Pipe), TEL (Telephone), THK (Thick, Thickness), TOB (Top of Bank), TOC (Top of Curb), TOS (Toe of Slope), TYP (Typical), T&G (Tongue-and-groove), UE (Underground Electric), UG (Underground), UL (Underwriters Laboratories, Inc), US (Upstream), V (Volt), VB (Valve Box), VCP (Vitrified Clay Pipe), VENT (Ventilator), VERT, V (Vertical), VIF (Verify in Field), VOL (Volume), VP (Vent Pipe), VTR (Vent Thru Roof), W (Water), WBT (Wet Bulb Temperature), WC (Water Closet), WD (Wood), WM (Water Meter), WP (Waterproof), WWF (Welded Wire Fabric), XRMR (Transformer), YD (Yard).

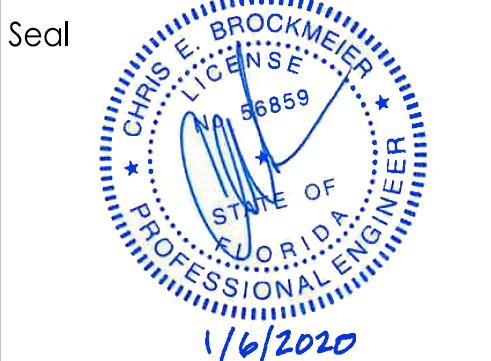
LEGEND

Legend table with categories: TOPOGRAPHY, DEMOLITION, EROSION & SEDIMENT CONTROL, PAVING, DRAINAGE, UTILITIES. Includes symbols for contour lines, spot elevations, demolition marks, erosion control fences, paving materials, storm manholes, and utility lines.

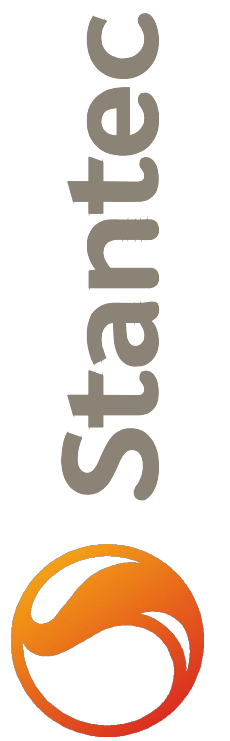
CALL 2 BUSINESS DAYS BEFORE YOU DIG IT'S THE LAW! DIAL 811 Know what's below. Call before you dig. SUNSHINE STATE ONE CALL OF FLORIDA, INC.

Revision table with columns: Revision, By, Appd., Issued.

Client/Project: LEON COUNTY PUBLIC WORKS DEPARTMENT, MERIDIAN ROAD DRAINAGE IMPROVEMENTS, TALLAHASSEE, FL

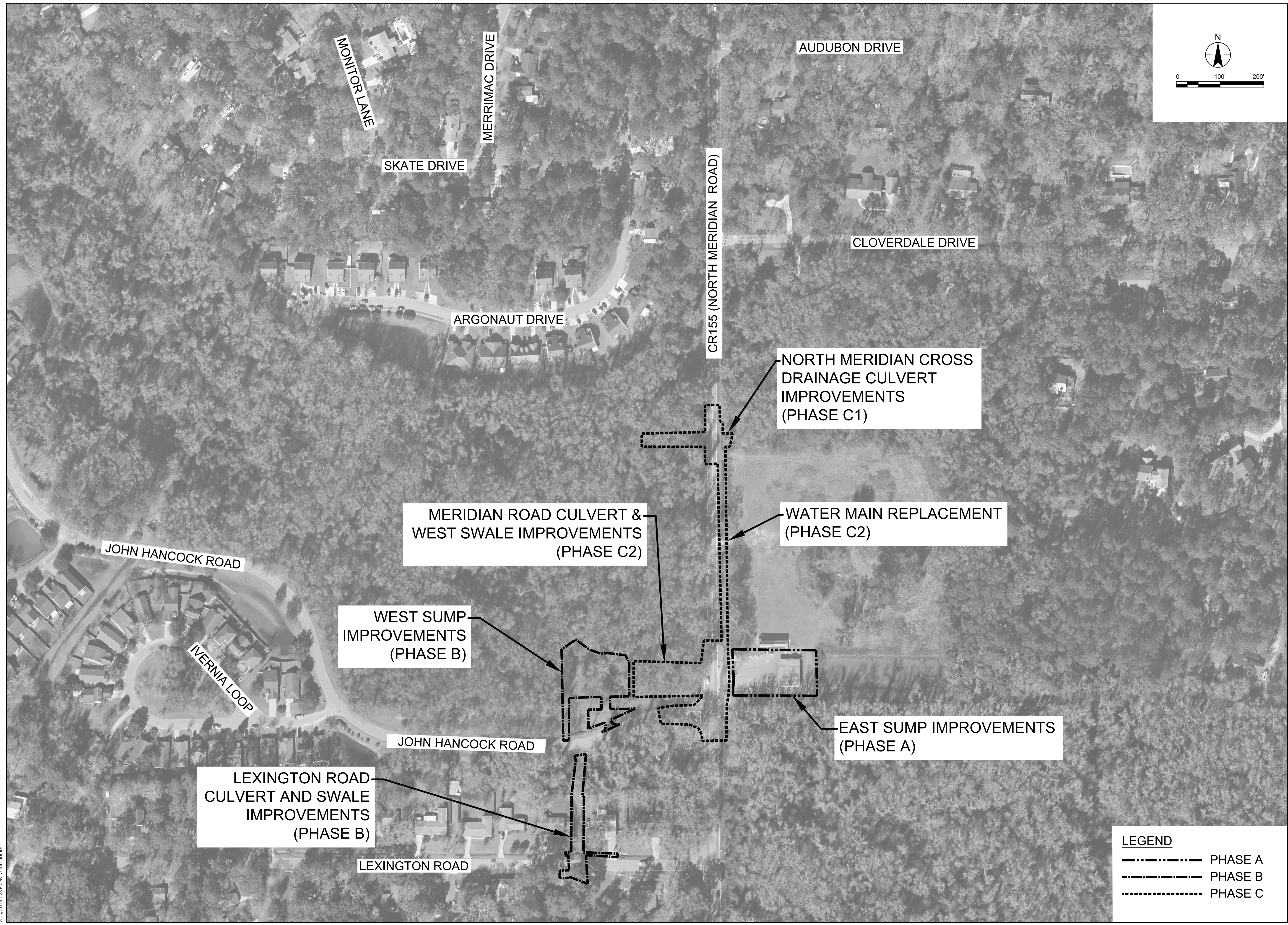
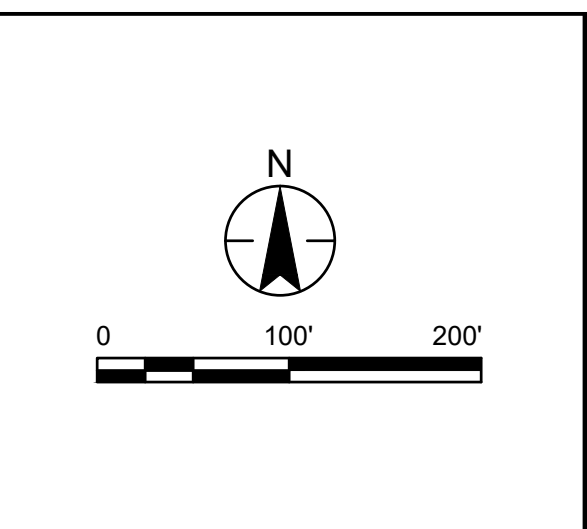


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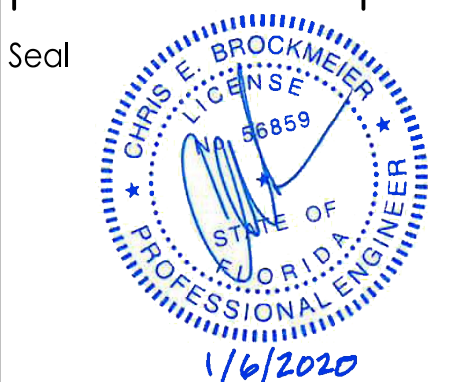
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Revision	By	Appd.	YY/MM/DD
1	305	SUBMITAL	17.08.11
		ISSUED	YY/MM/DD

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
AERIAL MAP



Project Number: 215613769
File Name: 215613769-G103-AM

JG	CEB	AIM	20.01.06
Dwn.	Chk'd.	Dsgn.	YY/MM/DD

Drawing No. G-104
Revision Sheet

LEGEND

	PHASE A
	PHASE B
	PHASE C



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VICINITY MAP (NOT TO SCALE)

LEGEND OF SYMBOLS

- B.M. = BENCH MARK
B.O.S. = BEGINNING OF SURVEY
C = CENTERLINE
(C) = CALCULATED MEASUREMENT
CH = CHORD
CHB = CHORD BEARING
CM = CRAFT MYRTLE
(D) = DEED MEASUREMENT
D = DELTA OR CENTRAL ANGLE
DBH = DIAMETER BREAST HEIGHT
EL = ELEVATION
ELLIP = ELLIPTICAL
E.O.S. = END OF STATIONS
F.D.O.T. = FLORIDA DEPARTMENT OF TRANSPORTATION
(F) = FIELD MEASUREMENT
FCM = FOUND CONCRETE MONUMENT
FIRC = FOUND IRON ROD AND CAP
FND = FOUND NAIL AND DISK
ID = IDENTIFICATION
INV. = INVERT
LO = LIVE OAK
LS# = SURVEYOR REGISTRATION NUMBER
M.E.S. = MITERED END SECTION
NAVD83 = NORTH AMERICAN VERTICAL DATUM OF 1983
NGVD29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929
No. = NUMBER
OP = ORNAMENTAL PLANT
O.R. = OFFICIAL RECORD BOOK
P.G. = PAGE
(P) = PLAT MEASUREMENT
P.B. = PLAT BOOK
P.C. = POINT OF CURVATURE
P.I. = POINT OF INTERSECTION
P.O.T. = POINT ON TANGENT
P.T. = POINT OF TANGENCY
R. = RADIUS
RCP = REINFORCED CONCRETE PIPE
RP = RESERVED PARKING
S.D.I. = STORM DRAIN INLET
SIRK = SET IRON ROD AND CAP LB #3293
SND = SET NAIL AND DISK LB #3293
STA. = STATION ON BASELINE OF SURVEY
TC = TERRA COTTA
TBM = TEMPORARY BENCH MARK
WLF = WETLAND FLAG
WLF = AIR CONDITIONER
WLF = BACKFLOW PREVENTER
WLF = CLEANOUT
WLF = COMMUNICATION MANHOLE
WLF = ELECTRIC TRANSFORMER
WLF = ELECTRIC OUTLET
WLF = FLAG POLE
WLF = FLOOD LIGHT
WLF = FIRE HYDRANT
WLF = GAS METER
WLF = GAS VALVE COVER
WLF = GENERATOR
WLF = GUY WIRE ANCHOR
WLF = HANDICAP PARKING
WLF = HOSE BIB
WLF = IRRIGATION CONTROL VALVE
WLF = LIGHT POLE
WLF = MANHOLE
WLF = PARKING COUNT
WLF = POWER POLE
WLF = POWER POLE WITH LIGHT
WLF = SANITARY SEWER MANHOLE
WLF = SIGNAL CONTROLLER
WLF = SIGNAL SPAN POLE
WLF = SINGLE SUPPORT SIGN
WLF = SPOT ELEVATION
WLF = STAND PIPE
WLF = STORM DRAIN INLET
WLF = STORM DRAIN MANHOLE
WLF = TELEPHONE PEDESTAL
WLF = UTILITY POLE
WLF = WATER METER
WLF = WATER VALVE COVER
WLF = WIRE PULL BOX
WLF = CONTOUR (ONE-FOOT INTERVAL)
WLF = CHAIN LINK FENCE
WLF = WOOD BOARD FENCE
WLF = OVERHEAD UTILITY LINES
WLF = RIGHT-OF-WAY LINE (APPROXIMATE)
WLF = WATER LINE

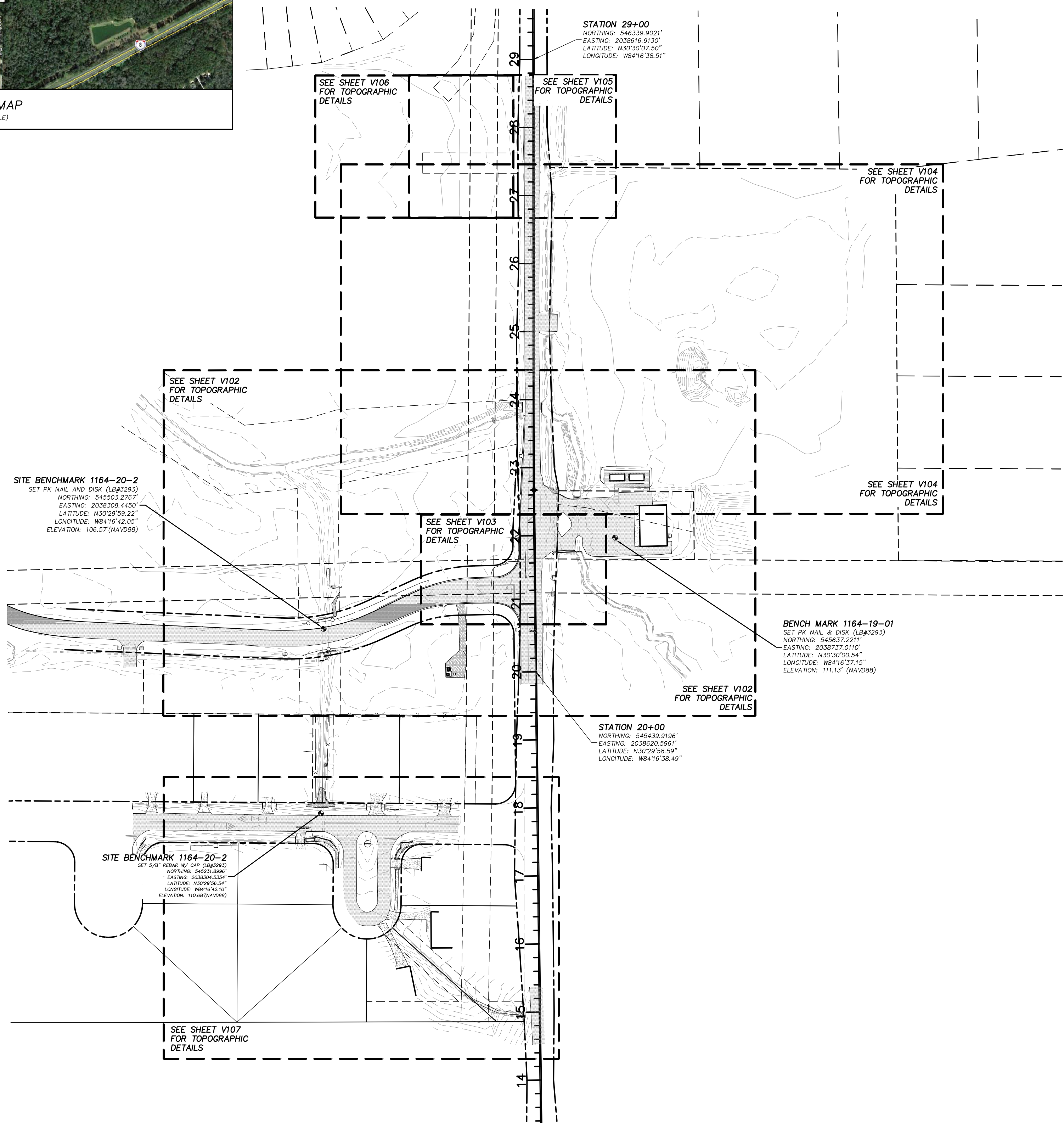
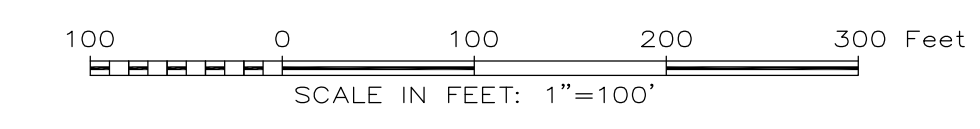


Table with 5 columns: TEST HOLE #, DESCRIPTION, STATION/OFFSET, GROUND ELEV., UTILITY DEPTH, UTILITY ELEV. Contains data for test holes TH-1 through TH-20.

SURVEYOR'S NOTES

- 1. BEARINGS ARE GRID, BASED ON THE FLORIDA NORTH, STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983, NAD83 (2011). COORDINATE DATA IS BASED ON A RTK GPS OBSERVATIONS REFERENCED TO FLORIDA PERMANENT REFERENCE NETWORK (FPRN) STATIONS "TALH", "GABY", "PHRY", "THOMASVILLE".
2. ELEVATION DATUM IS NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ELEVATIONS WERE ESTABLISHED ON THE SURVEY CONTROL POINTS BY A DIFFERENTIAL LEVEL LOOP INCORPORATING N.G.S. BENCHMARK BET187 "LEO 24 1979" AND "AT220" FROM FDOT PROJECT NO. 222589. ELEVATIONS ARE SHOWN IN U.S. SURVEY FEET AND DECIMAL PARTS.
3. ALL DISTANCES AND ELEVATIONS ARE EXPRESSED IN U.S. SURVEY FEET AND DECIMAL PARTS THEREOF UNLESS OTHERWISE SHOWN.
4. CONTOURS SHOWN AT 1 FOOT INTERVALS.
5. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN FACT IN THE EXACT LOCATION INDICATED. ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE, THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE UNDERGROUND UTILITIES SHOWN WERE LOCATED BY GARDON.
6. THE PROPERTY SURVEYED AND SHOWN HEREON APPEARS TO LIE IN FLOOD ZONE "AE" (FLOODWAY), AE (100 YR. EL.110), "A" (100 YR.), "X5" (500 YR.), AND "X" AS INDICATED BY THE FLOOD INSURANCE RATE MAPS FOR LEON COUNTY, FLORIDA, AND INCORPORATED AREAS, DATED AUGUST 18, 2009. PANEL 282 & 119 OF 483. COMMUNITY PANEL NUMBER 120730282F AND 120730119F. FLOOD ZONES SHOWN ON SURVEY ARE APPROXIMATE AND HAVE BEEN BASED FROM SAID FLOOD INSURANCE RATE MAPS.
7. ALL TREE CANOPIES ARE BASED ON A FACTOR OF 1" DIAMETER AT BREAST HEIGHT (DBH) = 1" OF CANOPY.
8. THIS IS NOT A BOUNDARY SURVEY.
(FIELD SURVEY DATE: 10/10/2017 FIELD BOOK: 1148 & 1167B)

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF SURVEYORS AND MAPPERS IN CHAPTER 5J-17.051 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.

Chad M. Thurner, PSM
Florida Professional Surveyor & Mapper
Certificate No. 6483

Revision table with columns for Revision, By, and App'd. Includes entries for Y1.M.M.DD.

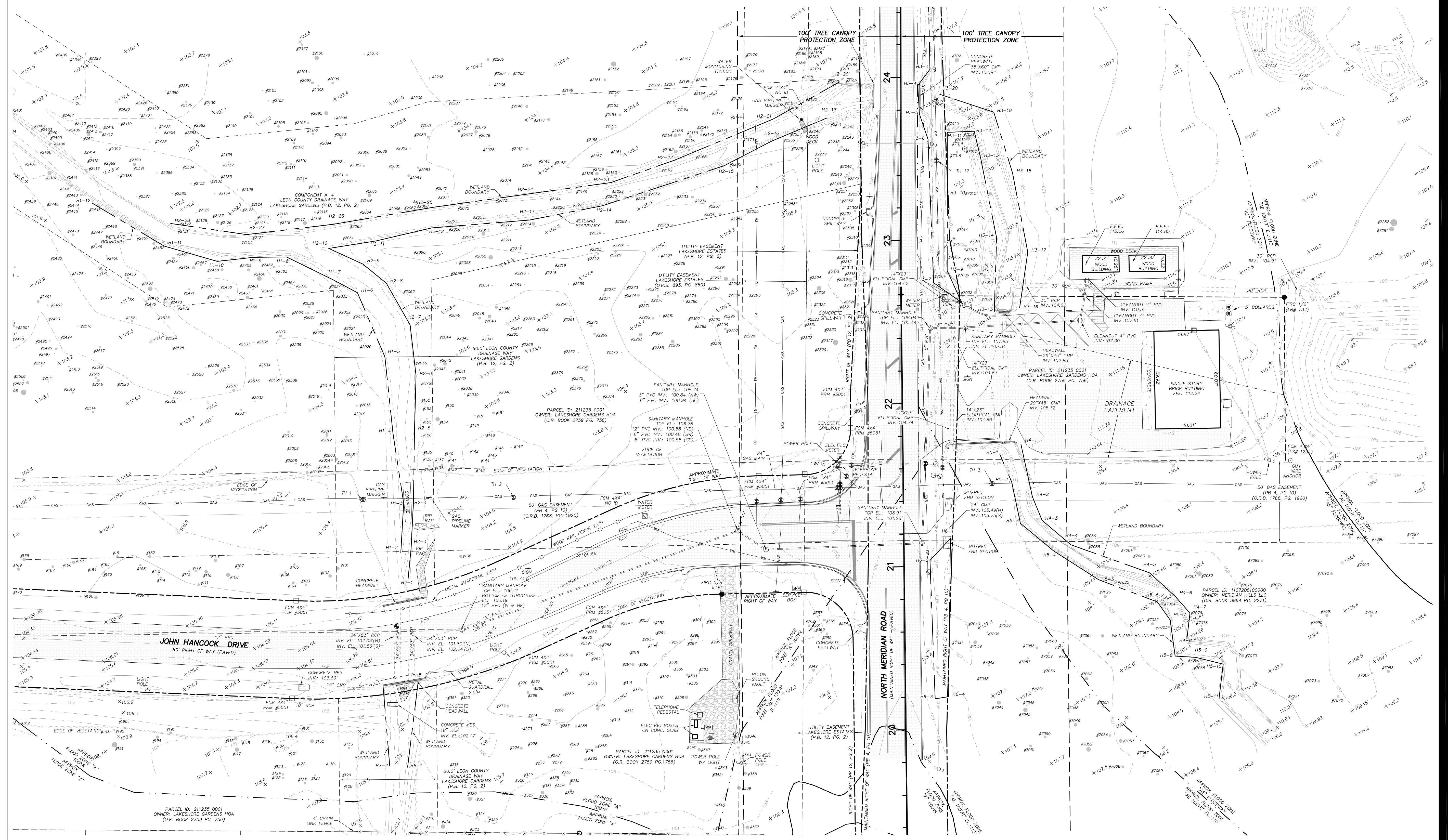
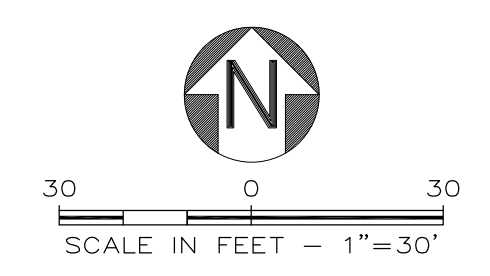
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MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

Permit-Seal

Table with columns for Project Number, File Name, DWG, CMT, Dwn, Chtkd, Dsgn, and Date (17/10/17). Includes Drawing No. V101 and Revision Sheet.



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Revision	By	App'd	Y/M/D
ISSUED	By	App'd	Y/M/D

Client/Project
**LEON COUNTY
 PUBLIC WORKS DEPARTMENT**
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
 GENERAL NOTES

Permit-Seal

Project Number:
 File Name: 5668-003-TOPO-REV1

DMW	CMT	17/10/17
Dwn.	Chk'd.	Dsgn.

Drawing No. **V102**
 Revision Sheet

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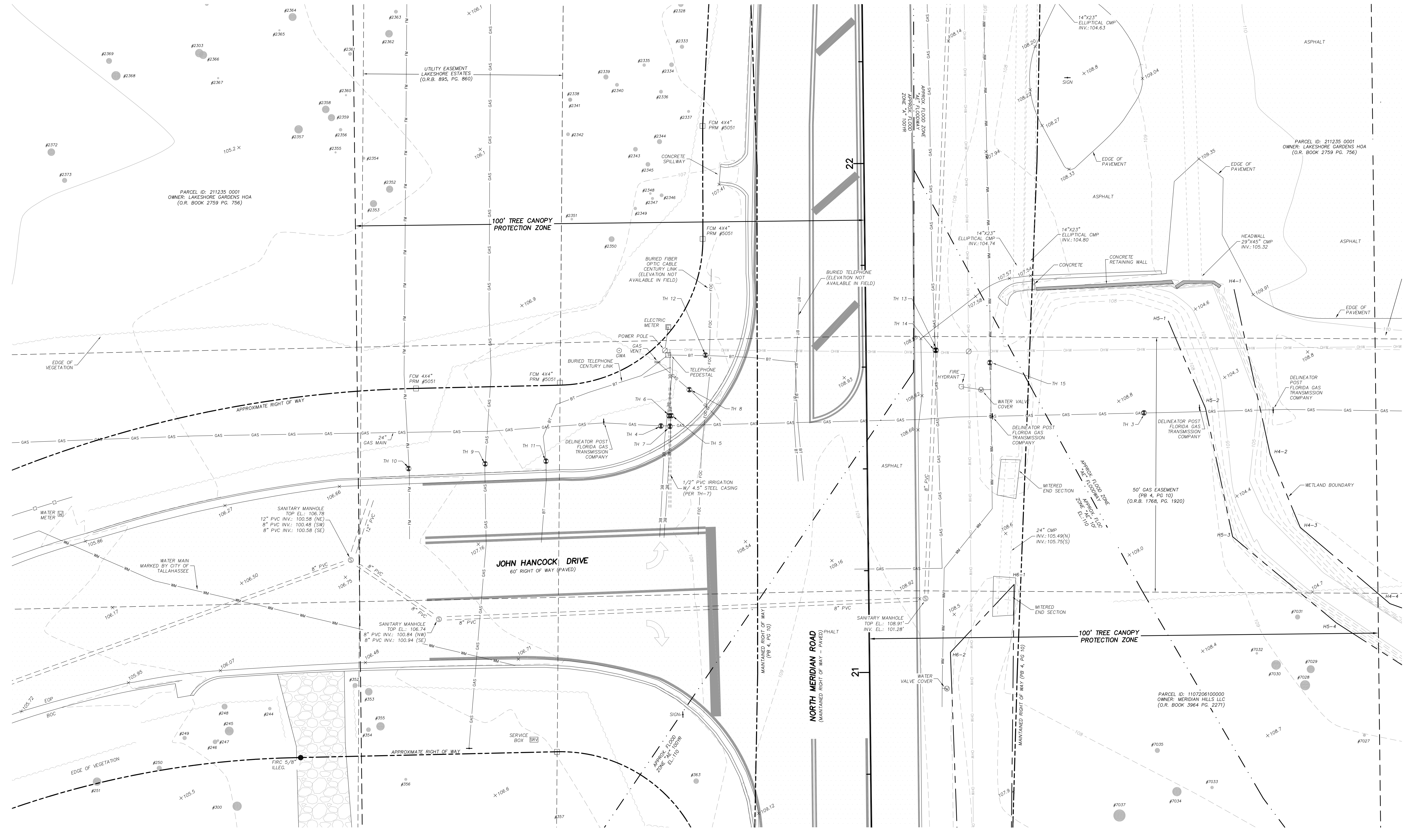
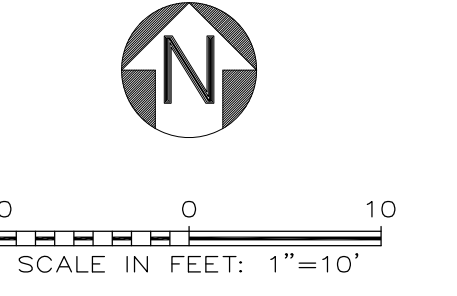
ORIGINAL SHEET - ANSI D



Revision	By	Appd.	Y1MMDD

	By	Appd.	Y1MMDD

	By	Appd.	Y1MMDD



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2017/10/16 11:28 AM B.D.M.W.

ORIGINAL SHEET - ANSI D

Client/Project
**LEON COUNTY
PUBLIC WORKS DEPARTMENT**
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

GENERAL NOTES

Permit-Seal

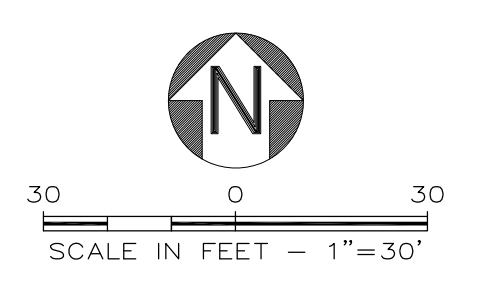
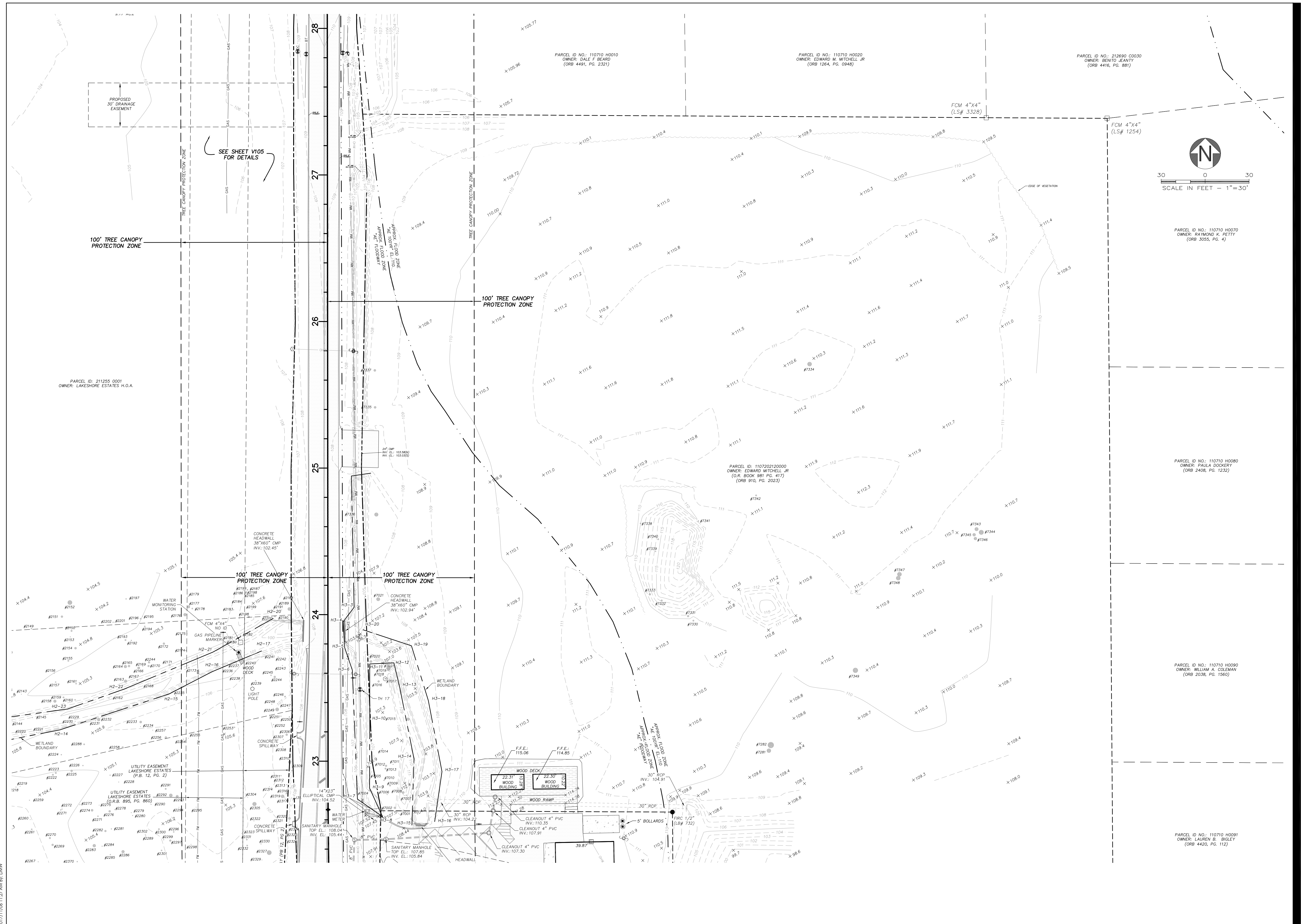
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Dwn. Chtkd. Dsgn.	YYMMDD

Drawing No. **V103**

Revision Sheet



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 2017/11/06 11:27 AM B.D.M.W.

Revision	By	App'd.	Y/M/MD

Issued	By	App'd.	Y/M/MD

Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE FL
 GENERAL NOTES

Permit-Seal

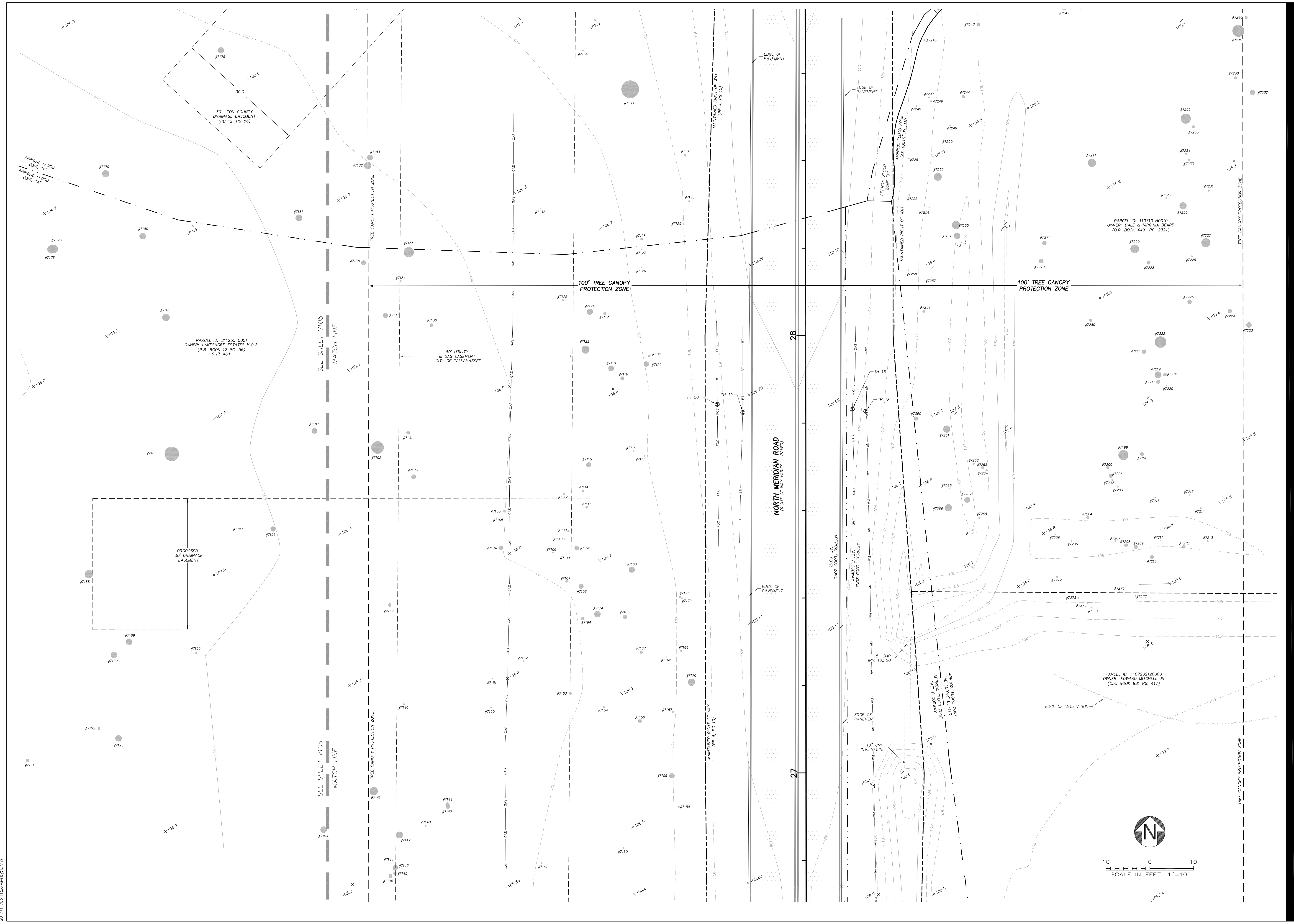
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File Name:	5668-003-TOPO-REV1		
DMW	CMT	17/10/17	
Dwn.	Chkcd.	Dsgn.	YYMMDD

Drawing No. **V104**

Revision	Sheet
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Revision	By	App'd.	Y/M/D
			YY/MM/DD

Issued	By	App'd.	Y/M/D
			YY/MM/DD

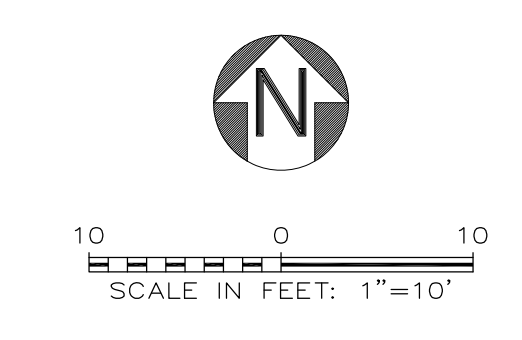
Client/Project
**LEON COUNTY
 PUBLIC WORKS DEPARTMENT**
**MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS**
 TALLAHASSEE, FL

Permit-Seal

Project Number: 5668-003-TOPO-REV1
 File Name: 5668-003-TOPO-REV1

DWM CMT 17/10/17
 Dwn Chkd. Dsgn. YY/MM/DD

Drawing No. **V105**
 Revision Sheet

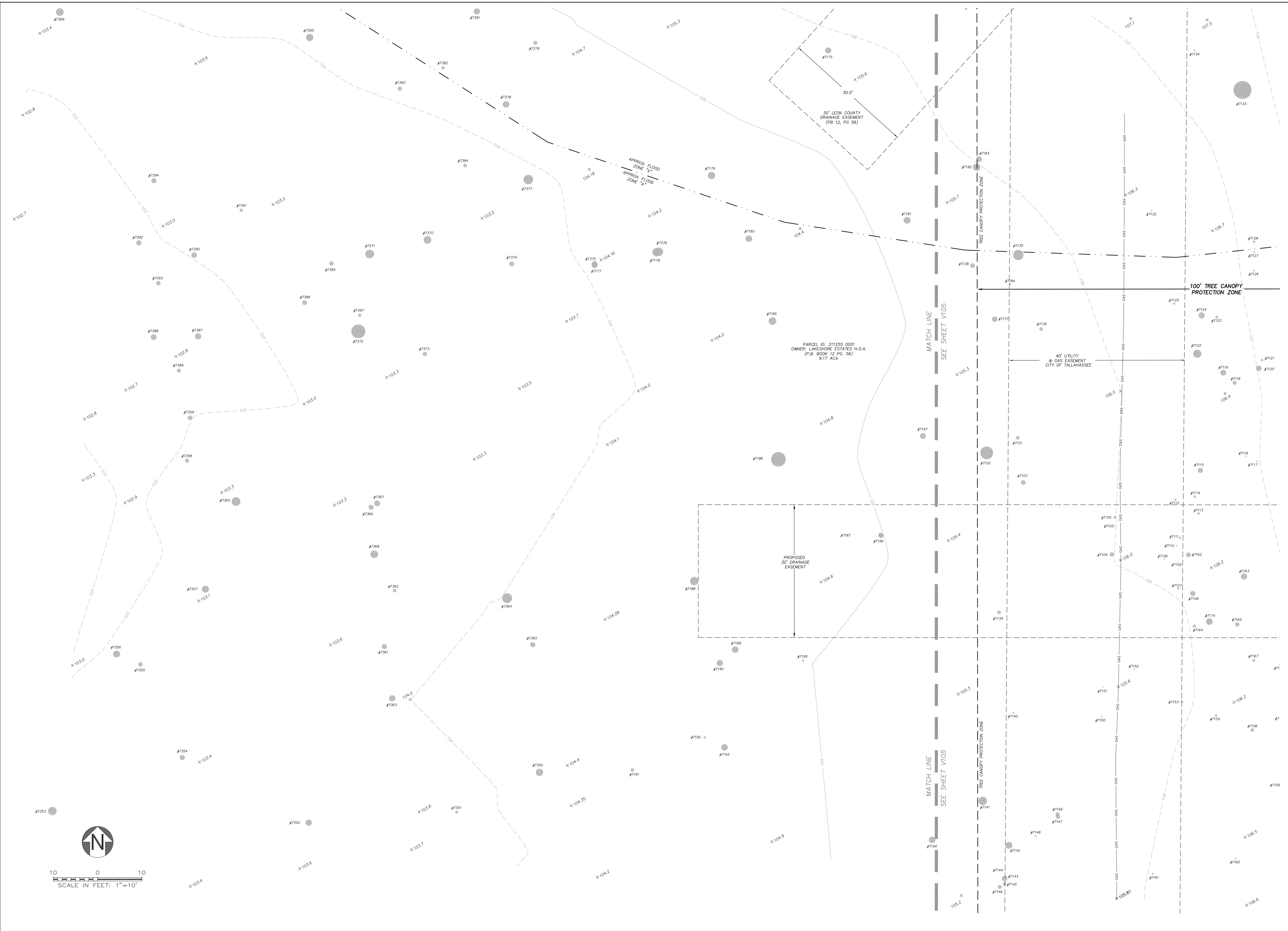


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2017\3\17\DWG\5668-003-TOPO-REV1.dwg
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ORIGINAL SHEET - ANSI D



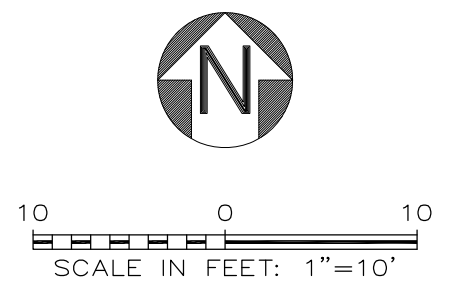
The Contractor shall verify each tree to be marked by its species, DBH, and height. The drawing, any notes or markings shall be reported to the City of Tallahassee. The Contractor shall be responsible for the property of the trees. The Contractor shall be responsible for the property of the trees. The Contractor shall be responsible for the property of the trees.



Revision	By	Appd.	Y/M/D

Issued	By	Appd.	Y/M/D

J:\5668-003 Meridian Road Additional Work\5668-003\Drawings\AutoCAD\5668-003-TOPO-REV1.dwg
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Client/Project
LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL

Permit-Seal

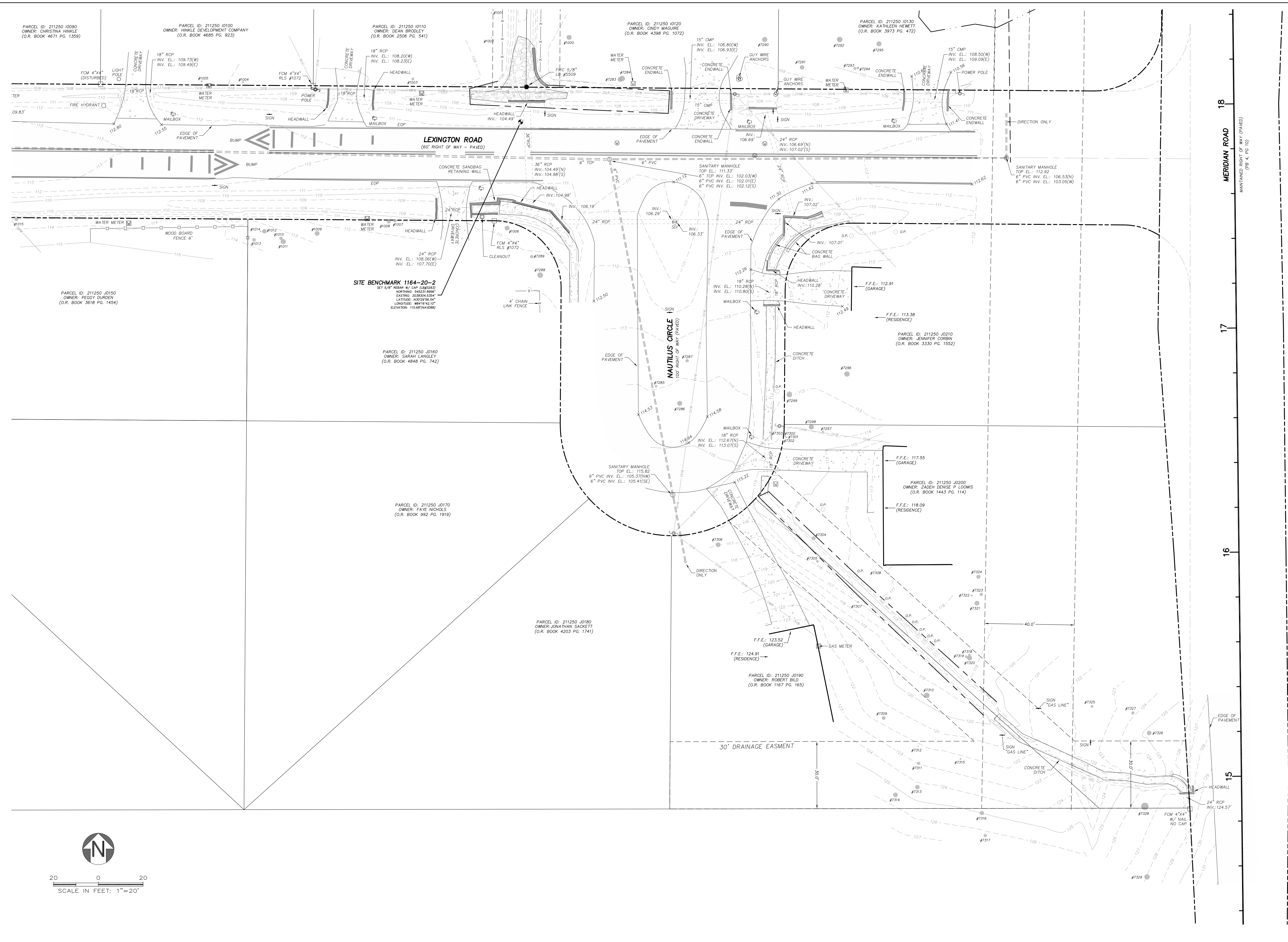
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 File Name: 5668-003-TOPO-REV1

DMW	CMT	17/10/17
Dwn.	Chkd.	Dsgn.

Drawing No. **V106**
 Revision Sheet



The Contractor shall verify and be responsible for all dimensions, elevations, and locations of all existing and proposed utilities. The drawing, any notes or annotations shall be prepared by the Contractor without delay. The Contractor shall be responsible for all dimensions, elevations, and locations of all existing and proposed utilities. The Contractor shall be responsible for all dimensions, elevations, and locations of all existing and proposed utilities.



Revision	By	App'd.	Y/M/D

Issued	By	App'd.	Y/M/D

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL

Permit-Seal

Project Number: 5668-003-TOPO-REV1

File Name: 5668-003-TOPO-REV1

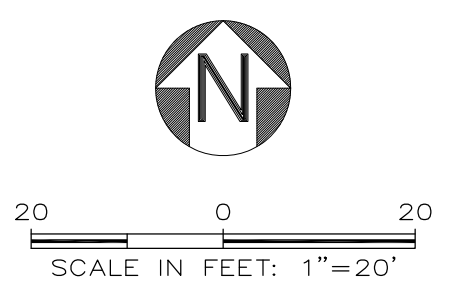
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Drawing No. **V107**

Revision Sheet

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ORIGINAL SHEET - ANSI D





The Consultant's liability shall be acceptable for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec without delay. The Copyright in all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

By: YI.M.M.D.D.

By: YI.M.M.D.D.

Revision

Issued

Client/Project: LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
GENERAL NOTES

Permit-Seal

Project Number:
File Name: 5668-003-TOPO-REV1

DWM CMT 17/10/17
Dwn. Chkd. Dsgn. YI.M.M.D.D.

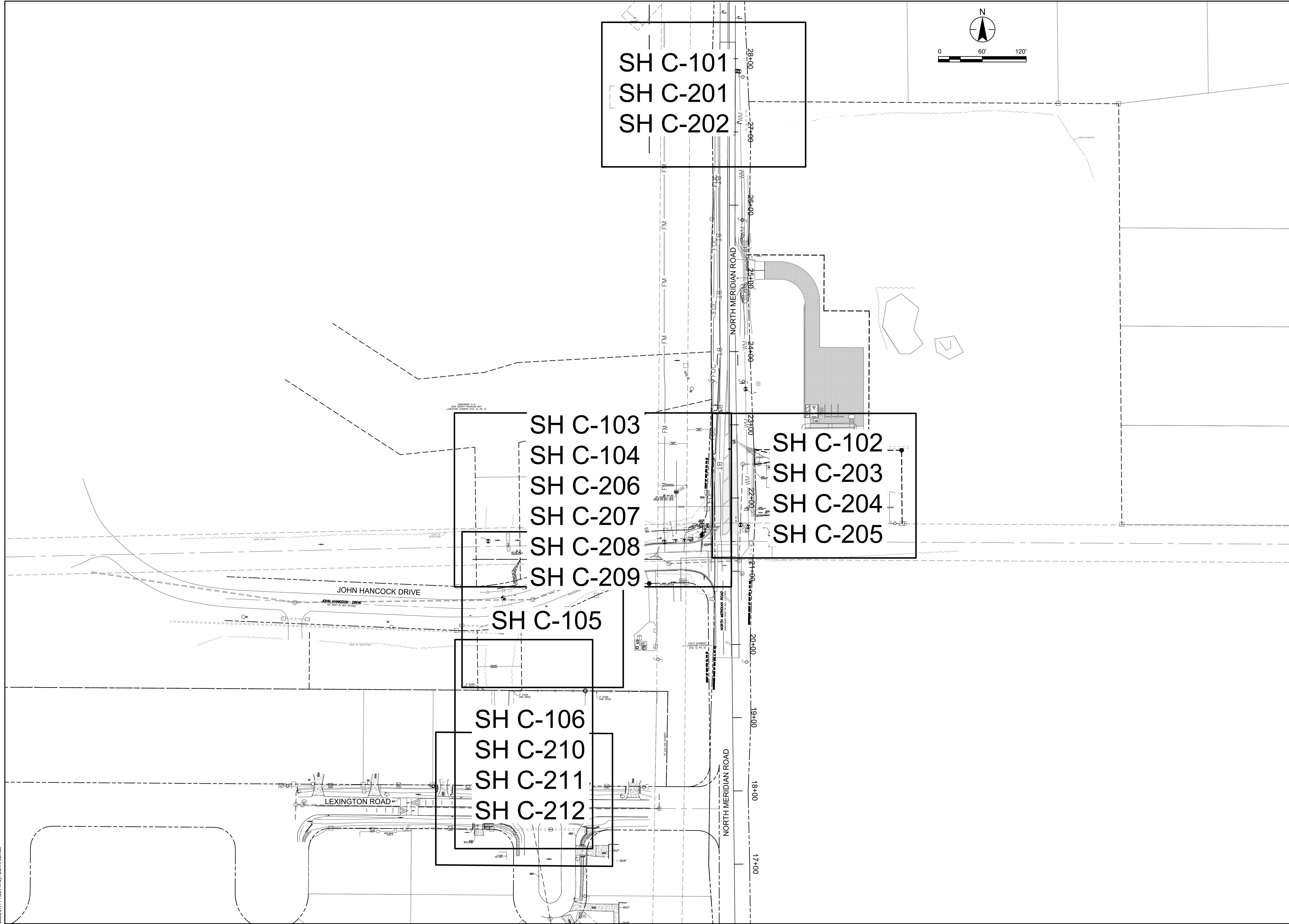
Drawing No. V108
Revision Sheet

TREE TABLE

Table with columns: TREE #, DBH (IN), DESCRIPTION, TREE #, DBH (IN), DESCRIPTION. Contains a list of trees with their respective IDs, diameters, and species names.

* INDICATES POOR CONDITION

J:\3668003 Meridian Road Additional
2017.07.17.dwg
1:5000
17/10/17

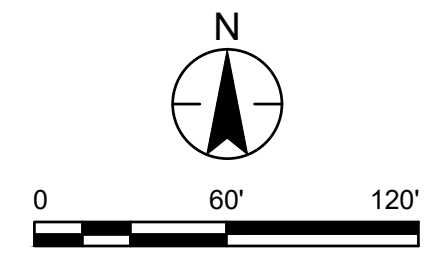


SH C-101
SH C-201
SH C-202

SH C-103
SH C-104
SH C-206
SH C-207
SH C-208
SH C-209
SH C-105

SH C-102
SH C-203
SH C-204
SH C-205

SH C-106
SH C-210
SH C-211
SH C-212



Revision	By	Appd.	Y.Y.MM.DD

Issued	By	Appd.	Y.Y.MM.DD

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
KEY SHEET



Project Number: 215613796
File Name: 215613796-KEY

JG CB AM 20.01.06
Dwn. Chkg. Dsgn. YY.MM.DD
Drawing No. C-001
Revision Sheet

0 of



LEGEND

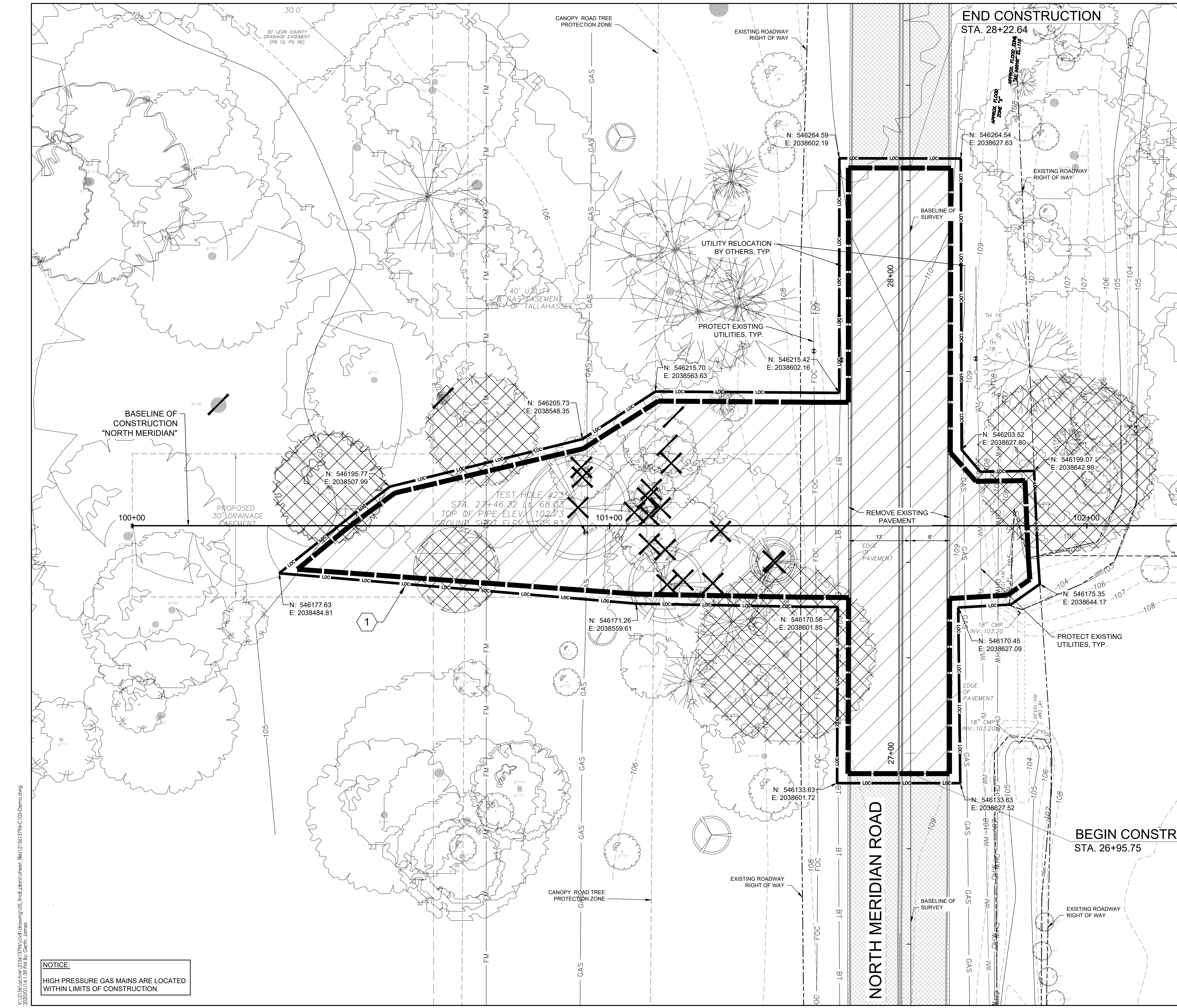
- TREE TO BE REMOVED
- EXISTING TREE MISSING OR DEAD
- AREA TO BE CLEARED
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING TREE TO BE MITTIGATED
- DEMOLITION (AREA)
- LIMITS OF CLEARING AND EROSION CONTROL SILT FENCE/ SEDIMENT CONTROL LOG WHEN WITHIN MITTIGATED TREE CPZ.
- OTHER SURFACE WATER LIMITS/BOUNDARY

DEMOLITION NOTES:

- CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH LEON COUNTY PUBLIC WORKS DEPARTMENT. VERIFY ALL UTILITIES NOTED FOR DEMOLITION HAVE BEEN SHUT OFF AND ABANDONED PRIOR TO ANY WORK
- CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. COORDINATE WITH LEON COUNTY AND UTILITY CONTACTS AND NOTIFY IMMEDIATELY OF ANY DISCREPANCY WITH UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES CAUSED BY THEIR CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY LEON COUNTY.

Revision	By	Appd.	Y/M/DD

Issued	By	Appd.	Y/M/DD



Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL

Seal

 1/6/2020

**DEMOLITION & EROSION CONTROL PLAN
 FOR MERIDIAN ROAD**

Project Number: 215613796
 File Name: 215613796-C102-Demo

JG	CS	AM	20.01.06

Drawing No. **C-101**
 Revision Sheet

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 2020/01/14 11:39 PM By: Cath... JAB:CS
 ORIGINAL SHEET - ANSI D



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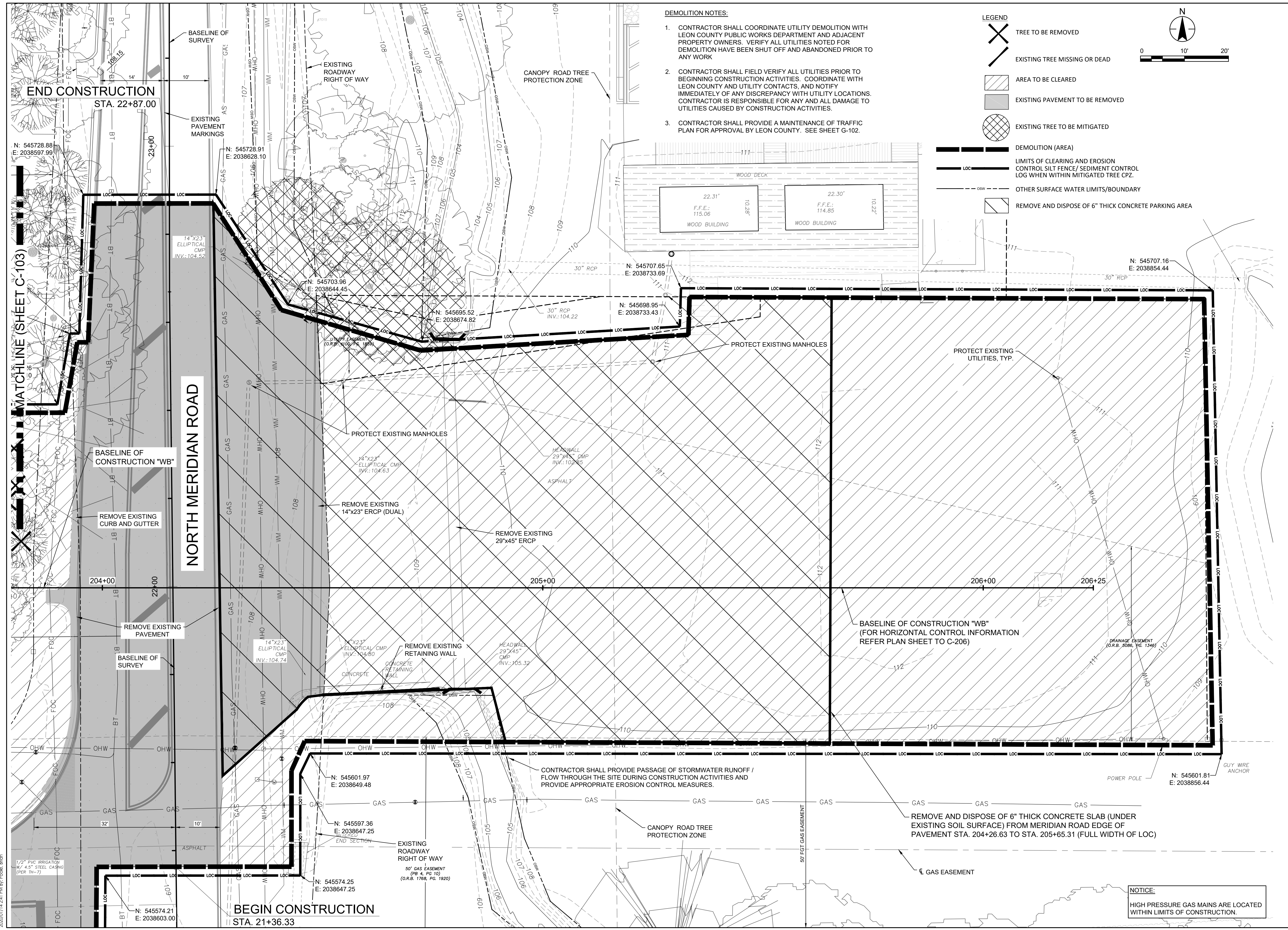
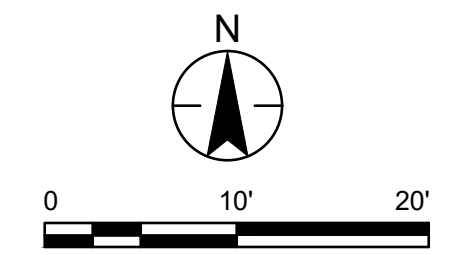
The Contractor shall verify and be responsible for all dimensions, locations, depths, and elevations of all utilities shown on this drawing. Any errors or omissions shall be reported to Stantec, without delay. The copyright in all design and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH LEON COUNTY PUBLIC WORKS DEPARTMENT AND ADJACENT PROPERTY OWNERS. VERIFY ALL UTILITIES NOTED FOR DEMOLITION HAVE BEEN SHUT OFF AND ABANDONED PRIOR TO ANY WORK
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. COORDINATE WITH LEON COUNTY AND UTILITY CONTACTS, AND NOTIFY IMMEDIATELY OF ANY DISCREPANCY WITH UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES CAUSED BY CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY LEON COUNTY. SEE SHEET G-102.

LEGEND

- TREE TO BE REMOVED
- EXISTING TREE MISSING OR DEAD
- AREA TO BE CLEARED
- EXISTING PAVEMENT TO BE REMOVED
- EXISTING TREE TO BE MITIGATED
- DEMOLITION (AREA)
- LIMITS OF CLEARING AND EROSION CONTROL SILT FENCE/ SEDIMENT CONTROL LOG WHEN WITHIN MITIGATED TREE CPZ.
- OTHER SURFACE WATER LIMITS/BOUNDARY
- REMOVE AND DISPOSE OF 6" THICK CONCRETE PARKING AREA



N: 545728.88
E: 2038597.99

N: 545728.91
E: 2038628.10

N: 545703.96
E: 2038644.45

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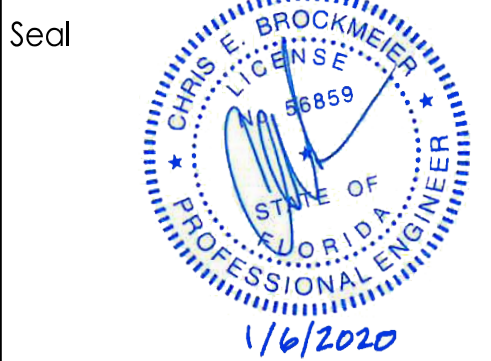
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Revision	By	Appd.	Y/M/MD

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
DEMOLITION & EROSION CONTROL PLAN
FOR EAST BASIN



Project Number:	215613796		
File Name:	215613796-C102-Demo		
JG	CB	AM	20.01.06
Dwn.	Chkd.	Dsgn.	Y/M/MD
Drawing No.	C-102		
Revision	Sheet		
0	of		

NOTICE:
HIGH PRESSURE GAS MAINS ARE LOCATED WITHIN LIMITS OF CONSTRUCTION.

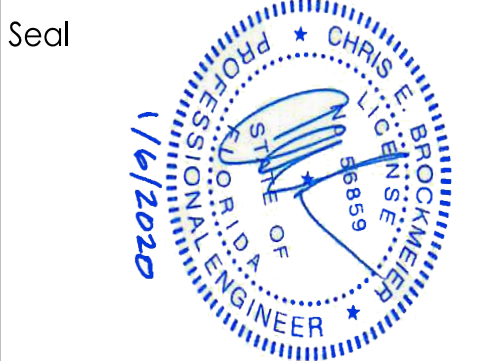
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Revision	By	Appd.	Y.M.M.D.D.

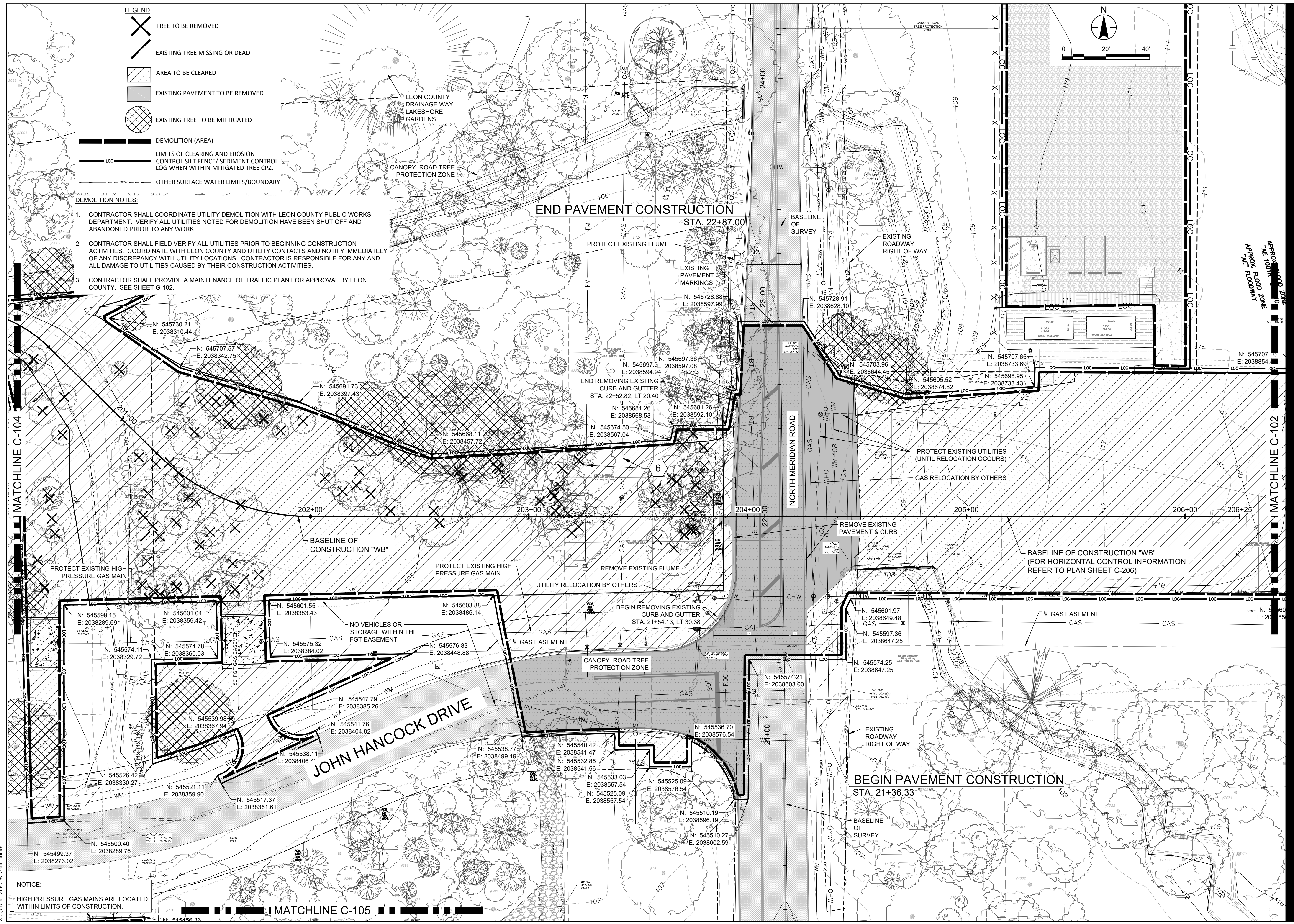
Revision	By	Appd.	Y.M.M.D.D.

Revision	By	Appd.	Y.M.M.D.D.

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
DEMOLITION & EROSION CONTROL PLAN
FOR WEST BASIN



Project Number: 215613796
File Name: 215613796-C102-Demo
JG CB AM 20.01.06
Dwn Chkd Dsgn Y.M.M.D.D.
Drawing No. C-103
Revision Sheet
0 of

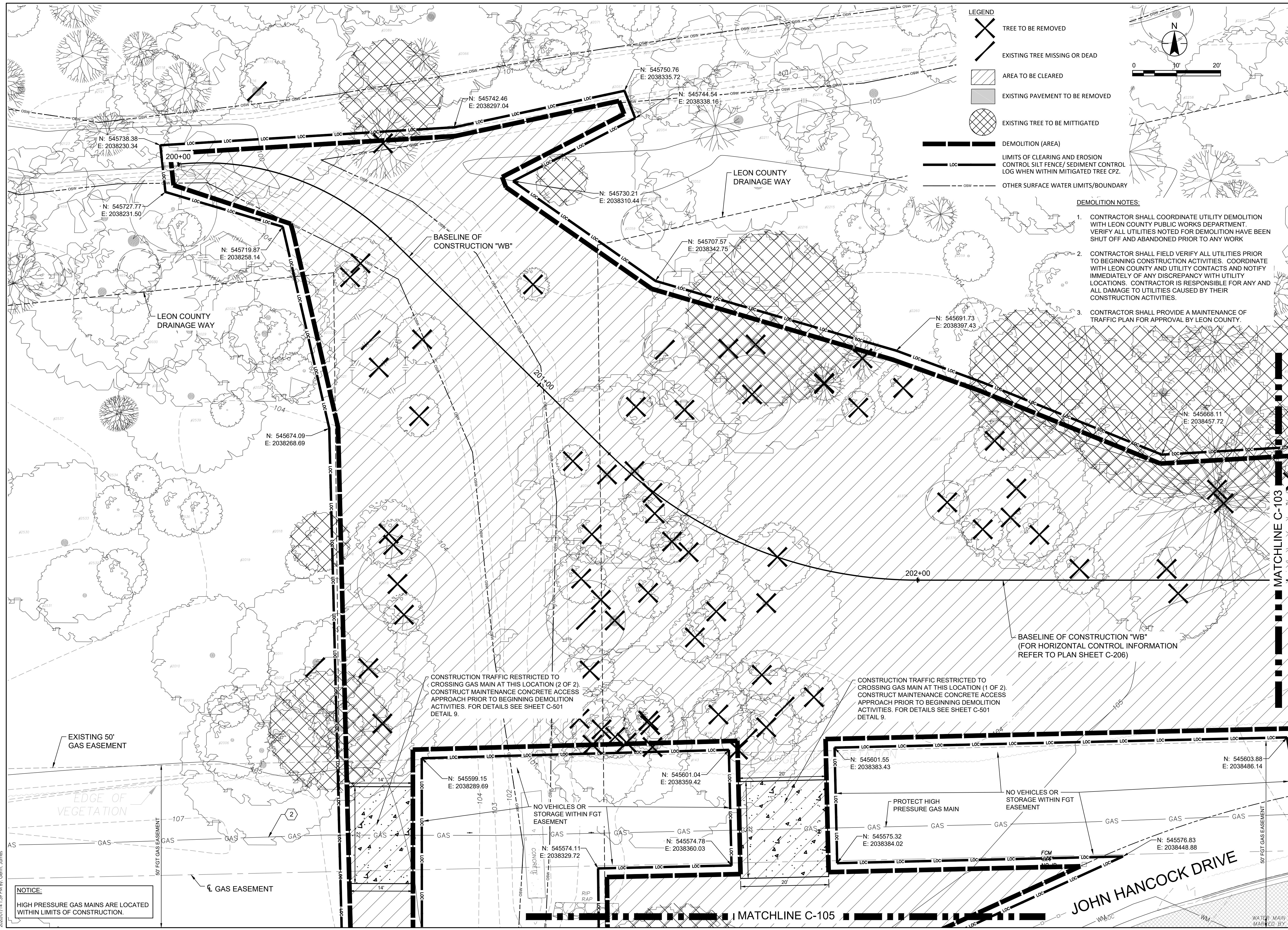


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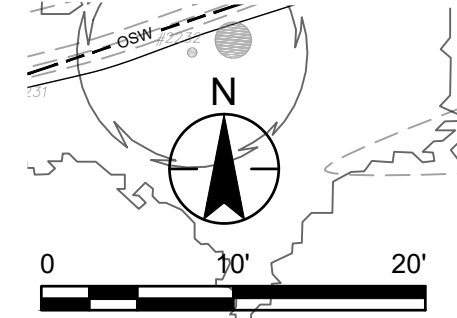


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- LEGEND**
- TREE TO BE REMOVED
 - EXISTING TREE MISSING OR DEAD
 - AREA TO BE CLEARED
 - EXISTING PAVEMENT TO BE REMOVED
 - EXISTING TREE TO BE MITTIGATED
 - DEMOLITION (AREA)
 - LIMITS OF CLEARING AND EROSION CONTROL SILT FENCE/ SEDIMENT CONTROL LOG WHEN WITHIN MITTIGATED TREE CPZ.
 - OTHER SURFACE WATER LIMITS/BOUNDARY



DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH LEON COUNTY PUBLIC WORKS DEPARTMENT. VERIFY ALL UTILITIES NOTED FOR DEMOLITION HAVE BEEN SHUT OFF AND ABANDONED PRIOR TO ANY WORK.
2. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. COORDINATE WITH LEON COUNTY AND UTILITY CONTACTS AND NOTIFY IMMEDIATELY OF ANY DISCREPANCY WITH UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES CAUSED BY THEIR CONSTRUCTION ACTIVITIES.
3. CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY LEON COUNTY.

CONSTRUCTION TRAFFIC RESTRICTED TO CROSSING GAS MAIN AT THIS LOCATION (2 OF 2). CONSTRUCT MAINTENANCE CONCRETE ACCESS APPROACH PRIOR TO BEGINNING DEMOLITION ACTIVITIES. FOR DETAILS SEE SHEET C-501 DETAIL 9.

CONSTRUCTION TRAFFIC RESTRICTED TO CROSSING GAS MAIN AT THIS LOCATION (1 OF 2). CONSTRUCT MAINTENANCE CONCRETE ACCESS APPROACH PRIOR TO BEGINNING DEMOLITION ACTIVITIES. FOR DETAILS SEE SHEET C-501 DETAIL 9.

BASELINE OF CONSTRUCTION "WB" (FOR HORIZONTAL CONTROL INFORMATION REFER TO PLAN SHEET C-206)

NOTICE:
HIGH PRESSURE GAS MAINS ARE LOCATED WITHIN LIMITS OF CONSTRUCTION.

Revision	By	App'd.	YY/MM/DD

Client/Project:
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

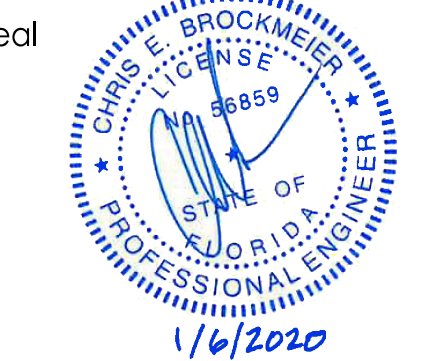
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Project Number: 215613796
File Name: 215613796-C102-Demo

JG CB AM 20.01.06
Dwn Chk'd Dsgn YY/MM/DD

Drawing No. C-104
Revision Sheet

0 of

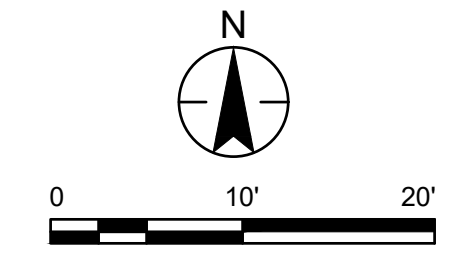
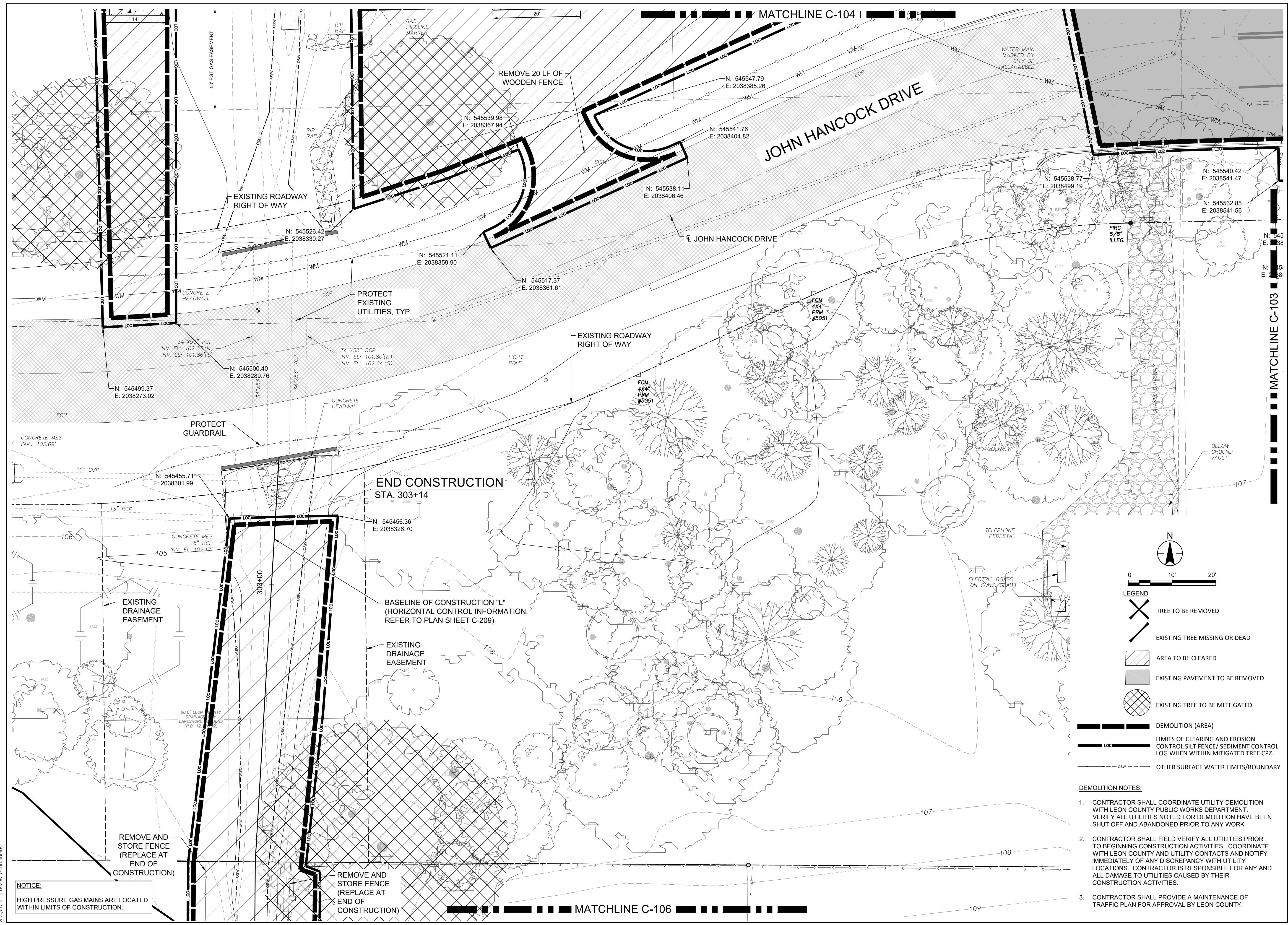


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LEGEND

	TREE TO BE REMOVED
	EXISTING TREE MISSING OR DEAD
	AREA TO BE CLEARED
	EXISTING PAVEMENT TO BE REMOVED
	EXISTING TREE TO BE MITTIGATED
	DEMOLITION (AREA)
	LIMITS OF CLEARING AND EROSION CONTROL SILT FENCE/ SEDIMENT CONTROL LOG WHEN WITHIN MITTIGATED TREE CPZ.
	OTHER SURFACE WATER LIMITS/BOUNDARY

- DEMOLITION NOTES:**
- CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH LEON COUNTY PUBLIC WORKS DEPARTMENT. VERIFY ALL UTILITIES NOTED FOR DEMOLITION HAVE BEEN SHUT OFF AND ABANDONED PRIOR TO ANY WORK
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NOTICE:
HIGH PRESSURE GAS MAINS ARE LOCATED WITHIN LIMITS OF CONSTRUCTION.

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

Seal

Project Number: 215613796
File Name: 215613796-C102-Demo

JG	C8	AM	20.01.06
Dwn	Chkd	Dsgn	YYMMDD

Drawing No. **C-105**
Revision Sheet

0 of

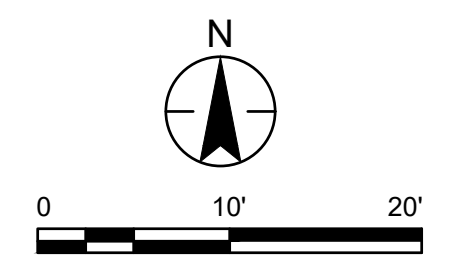
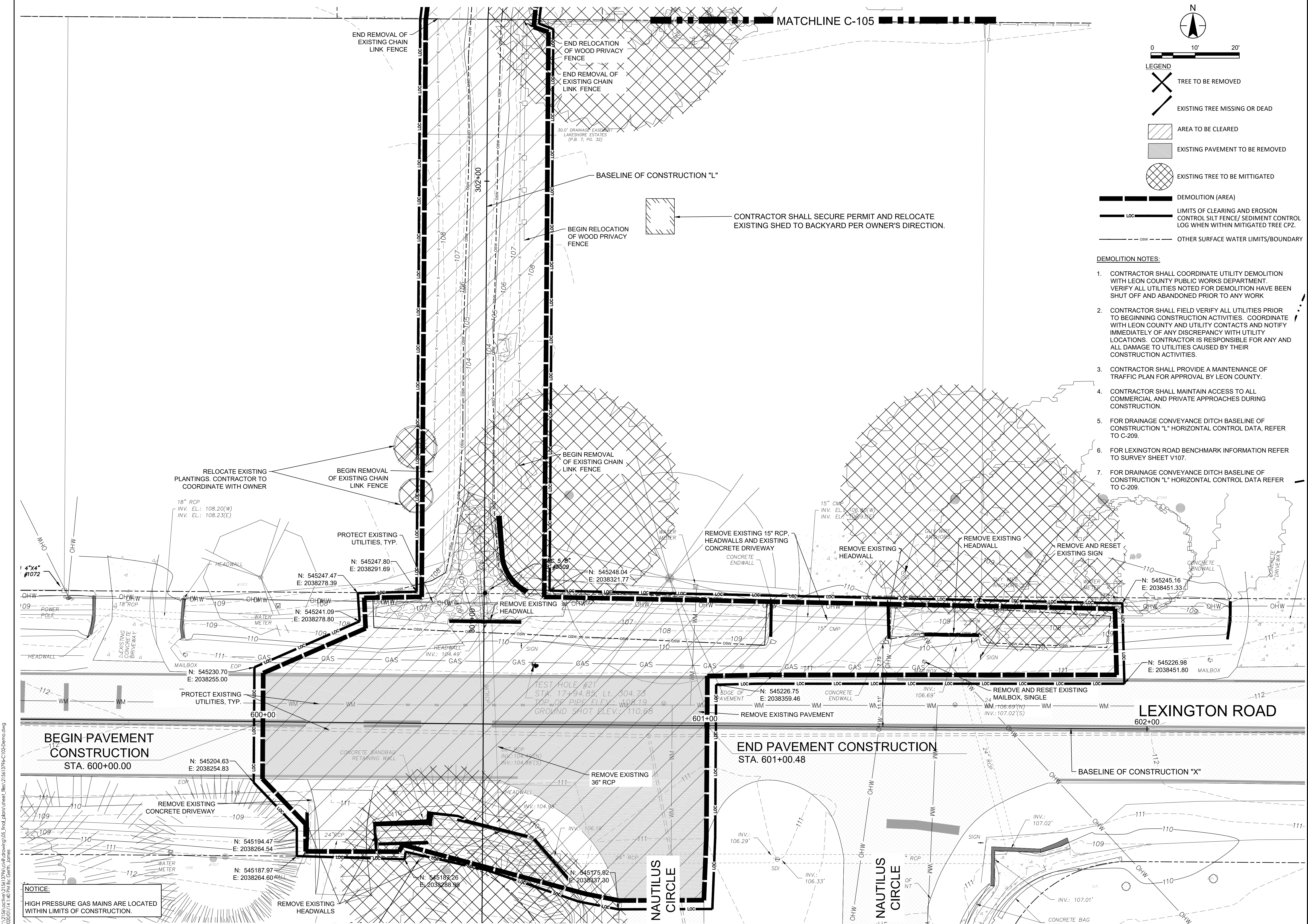
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 ORIGINAL SHEET - ANSI D



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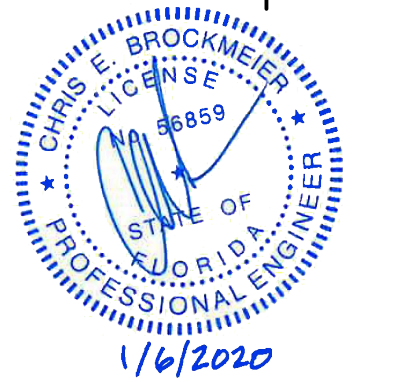
- LEGEND**
- [X symbol] TREE TO BE REMOVED
 - [Diagonal lines symbol] EXISTING TREE MISSING OR DEAD
 - [White box symbol] AREA TO BE CLEARED
 - [Grey box symbol] EXISTING PAVEMENT TO BE REMOVED
 - [Cross-hatch symbol] EXISTING TREE TO BE MITIGATED
 - [Thick dashed line symbol] DEMOLITION (AREA)
 - [Thin dashed line symbol] LIMITS OF CLEARING AND EROSION CONTROL SILT FENCE/ SEDIMENT CONTROL LOG WHEN WITHIN MITIGATED TREE CPZ.
 - [Dashed line symbol] OTHER SURFACE WATER LIMITS/BOUNDARY

- DEMOLITION NOTES:**
- CONTRACTOR SHALL COORDINATE UTILITY DEMOLITION WITH LEON COUNTY PUBLIC WORKS DEPARTMENT. VERIFY ALL UTILITIES NOTED FOR DEMOLITION HAVE BEEN SHUT OFF AND ABANDONED PRIOR TO ANY WORK
 - CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES. COORDINATE WITH LEON COUNTY AND UTILITY CONTACTS AND NOTIFY IMMEDIATELY OF ANY DISCREPANCY WITH UTILITY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGE TO UTILITIES CAUSED BY THEIR CONSTRUCTION ACTIVITIES.
 - CONTRACTOR SHALL PROVIDE A MAINTENANCE OF TRAFFIC PLAN FOR APPROVAL BY LEON COUNTY.
 - CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COMMERCIAL AND PRIVATE APPROACHES DURING CONSTRUCTION.
 - FOR DRAINAGE CONVEYANCE DITCH BASELINE OF CONSTRUCTION "L" HORIZONTAL CONTROL DATA, REFER TO C-209.
 - FOR LEXINGTON ROAD BENCHMARK INFORMATION REFER TO SURVEY SHEET Y107.
 - FOR DRAINAGE CONVEYANCE DITCH BASELINE OF CONSTRUCTION "L" HORIZONTAL CONTROL DATA REFER TO C-209.

NOTICE:
HIGH PRESSURE GAS MAINS ARE LOCATED WITHIN LIMITS OF CONSTRUCTION.

Client/Project
LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

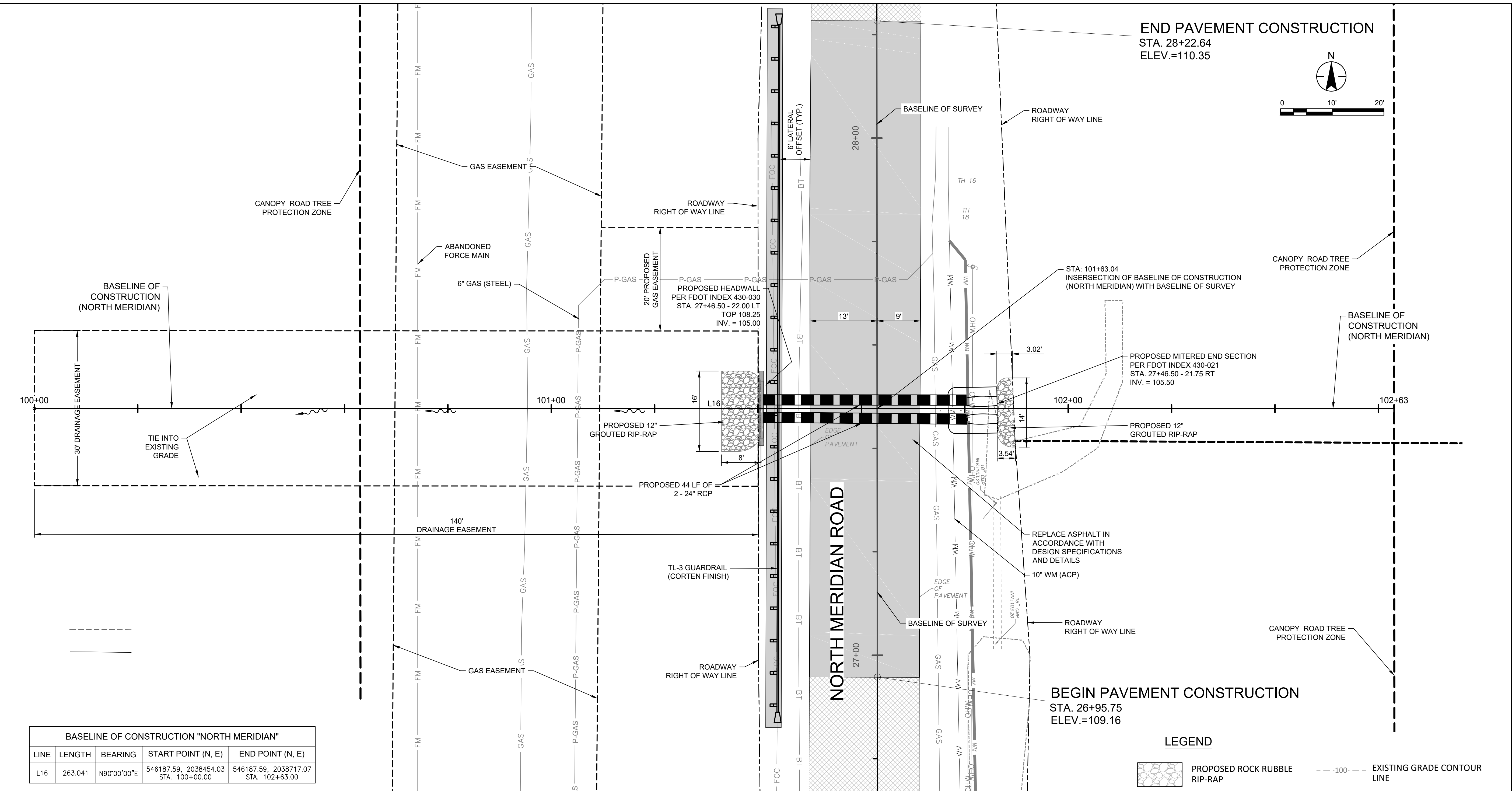
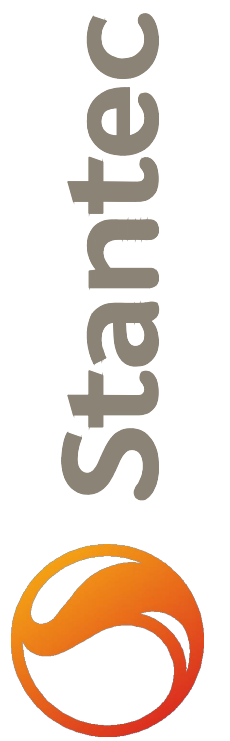
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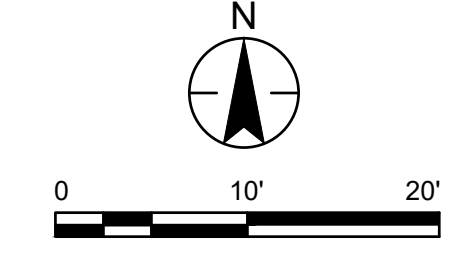
Project Number: 215613796
File Name: 215613796-C102-Demo

JG	CB	AM	20.01.06
Dwn	Chk'd	Dsgn	YY/MM/DD

Drawing No. **C-106**
Revision Sheet



END PAVEMENT CONSTRUCTION
STA. 28+22.64
ELEV.=110.35



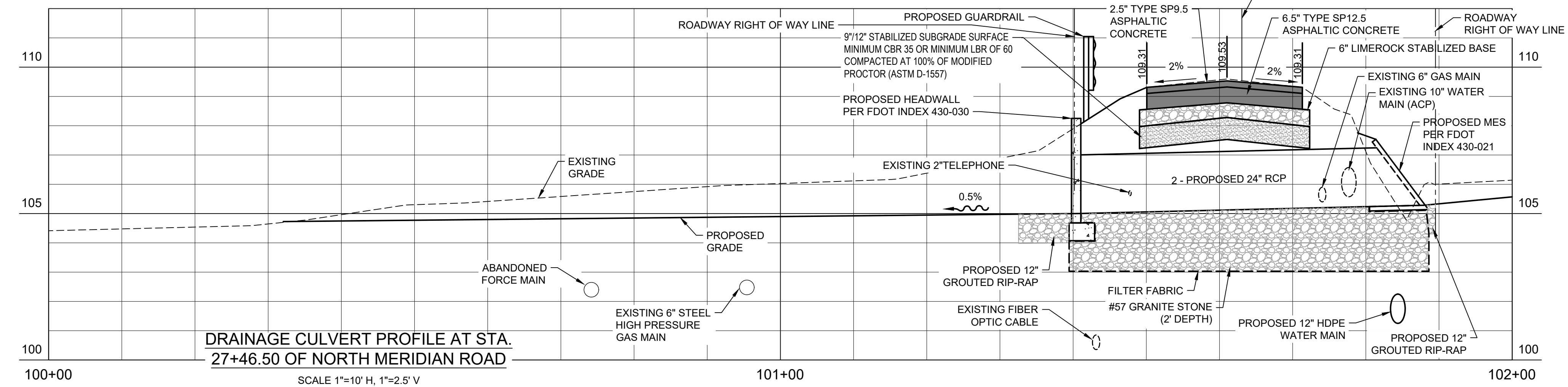
BASELINE OF CONSTRUCTION "NORTH MERIDIAN"				
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LEGEND

- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE PAVING
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- MISCELLANEOUS ASPHALT PAVING
- EXISTING GRADE CONTOUR LINE
- PROPOSED GRADE CONTOUR LINE
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING FORCE MAIN
- EXISTING OVERHEAD WIRE
- EXISTING BURIED TELEPHONE
- EXISTING BURIED FIBER OPTIC
- EXISTING BURIED ELECTRIC
- RIGHT-OF-WAY
- EASEMENT

NOTES:

- FOR GUARDRAIL AND PAVEMENT MARKING INFORMATION SEE PAVEMENT MARKING PLANS.
- REFER TO C-501 FOR ASPHALT TYPICAL SECTION DETAIL.



DRAINAGE CULVERT PROFILE AT STA. 27+46.50 OF NORTH MERIDIAN ROAD

SCALE 1"=10' H, 1"=2.5' V

Revision	By	Appd.	Yr./MM/DD

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

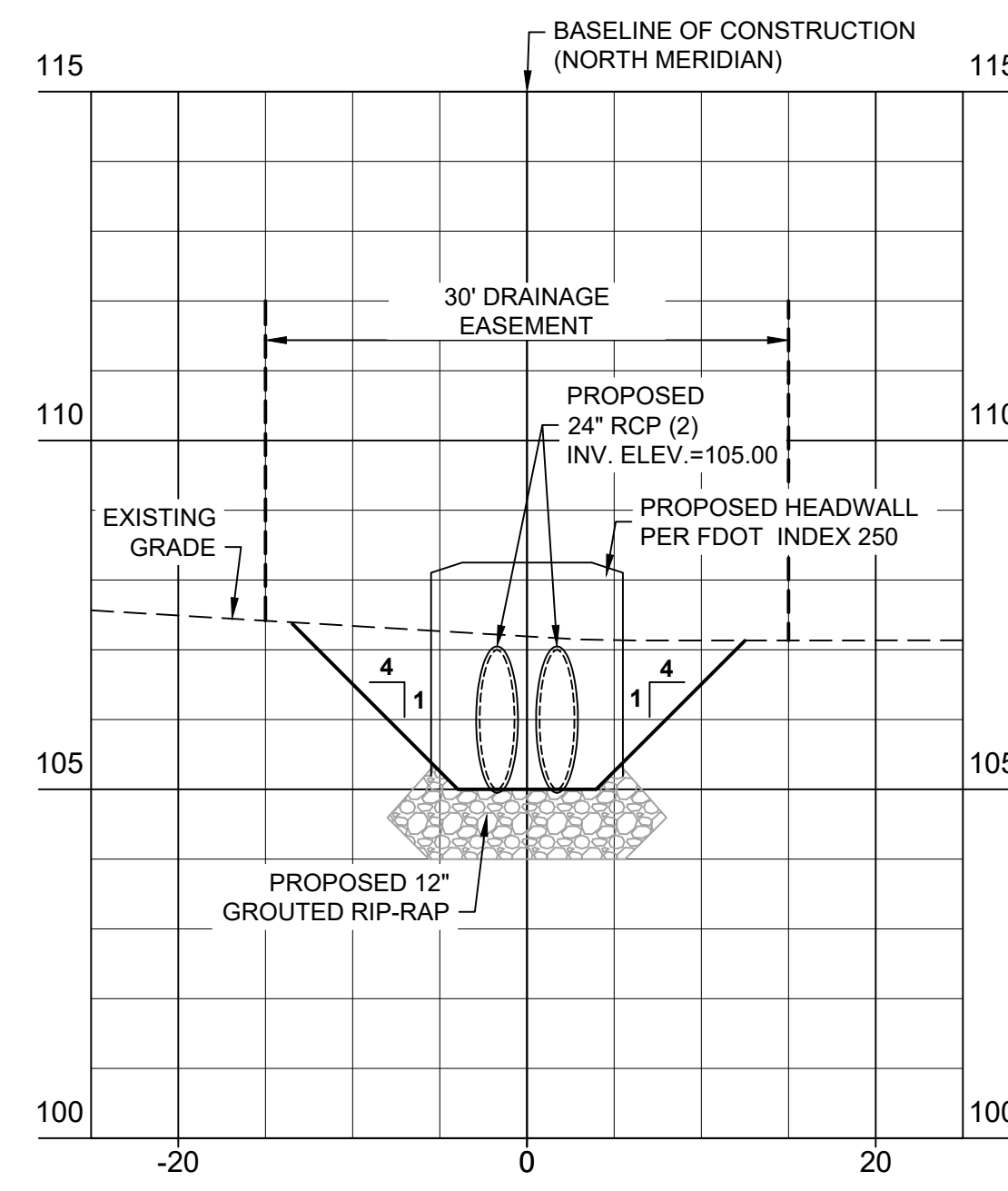
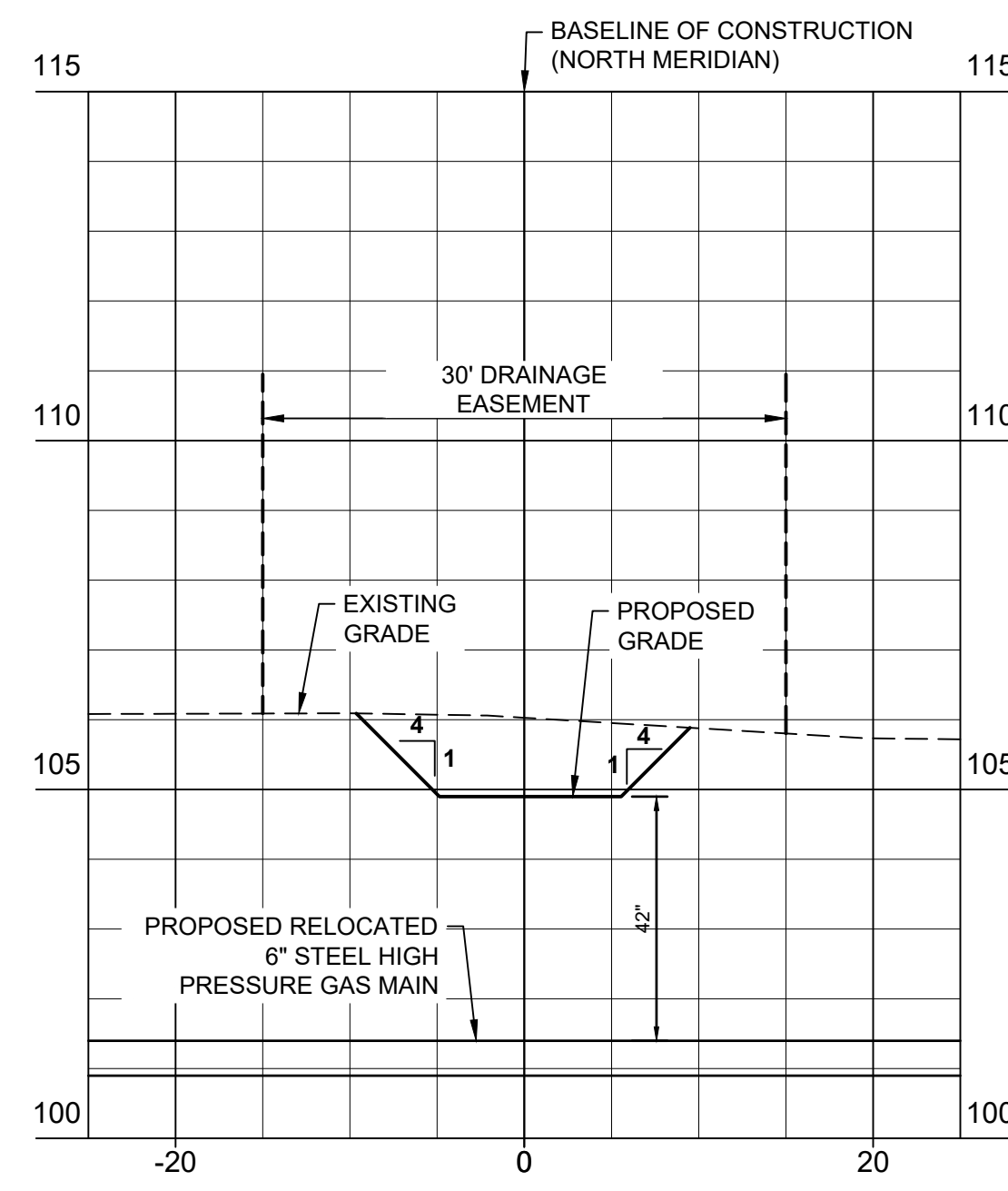
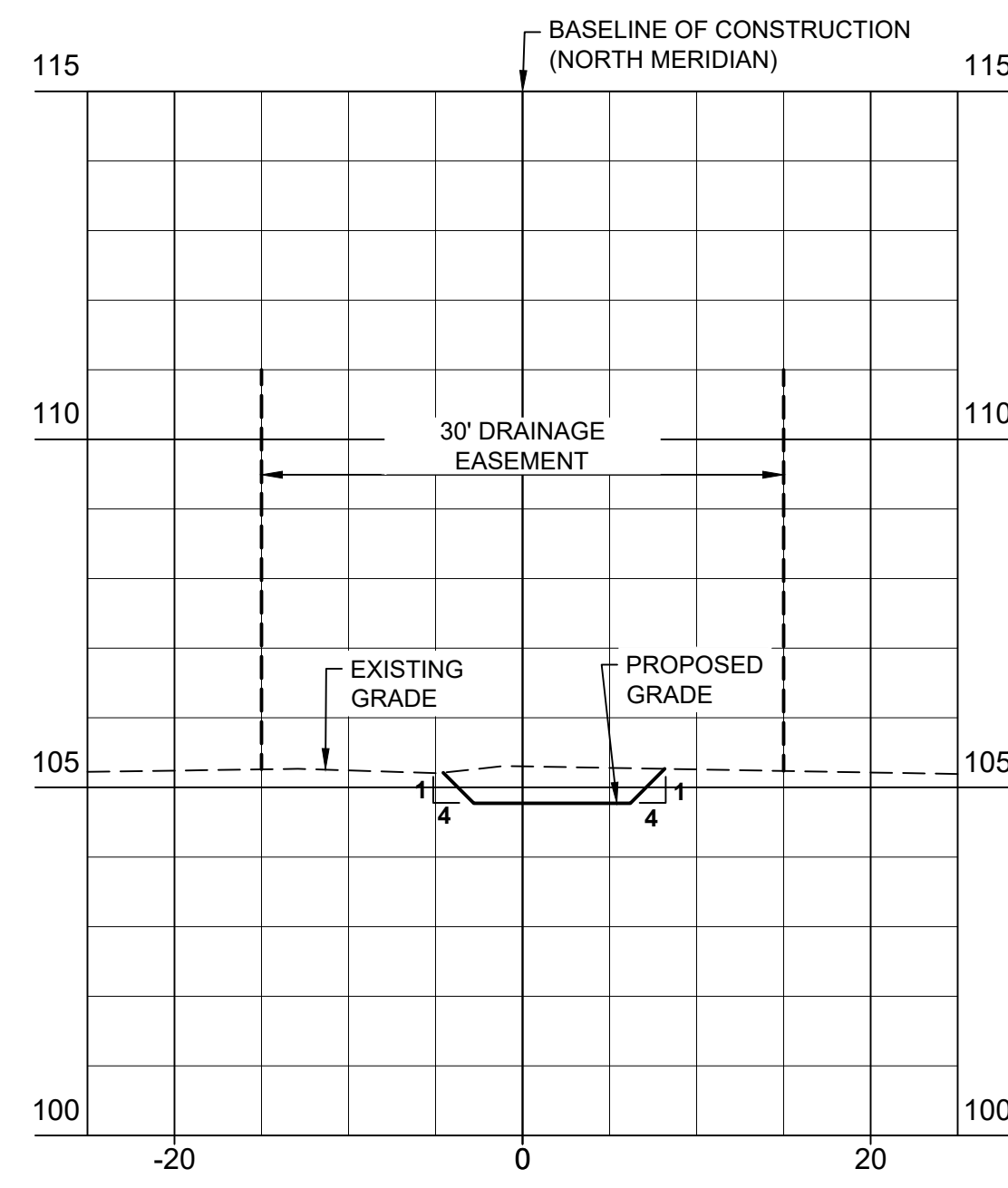
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Project Number: 215613796
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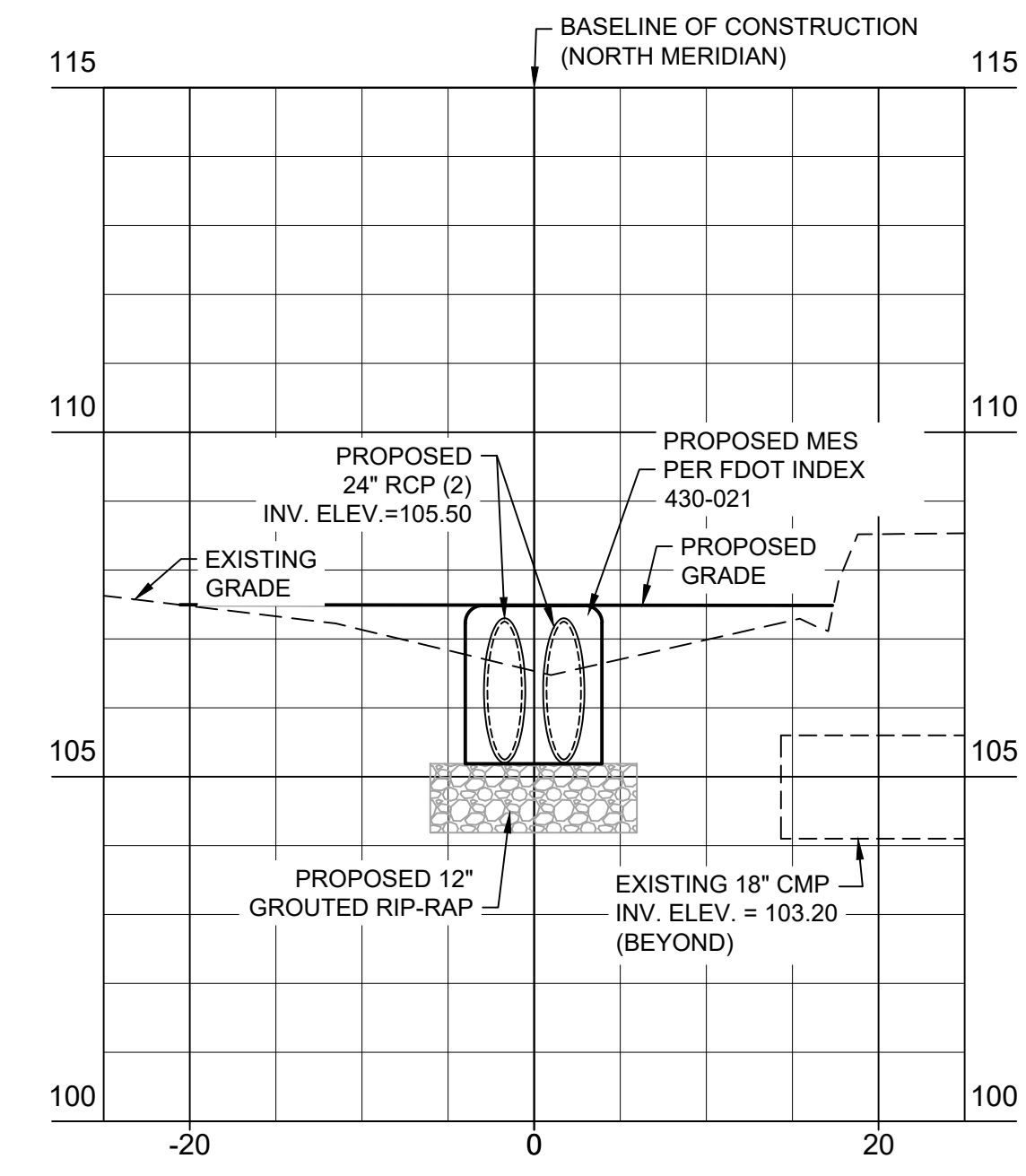
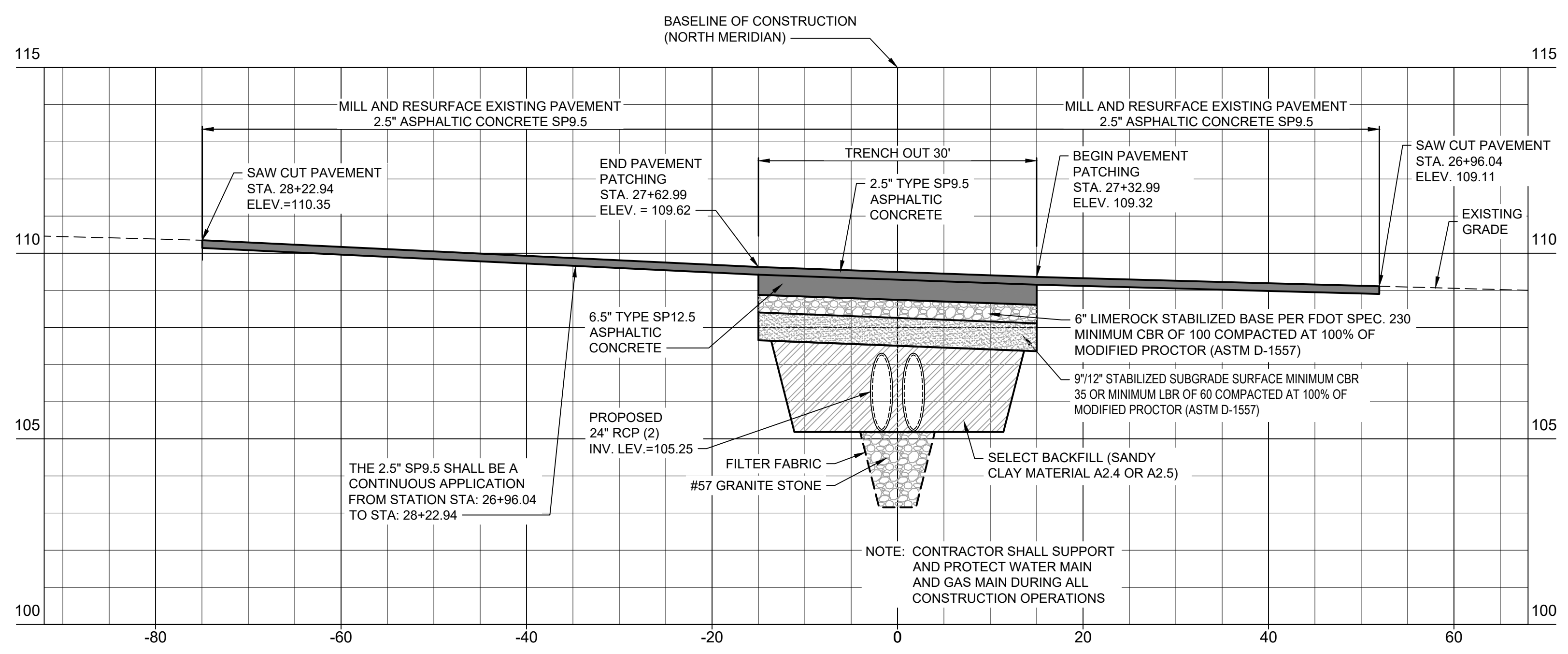
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Dwn	Chk'd	Dsgn	Yr./MM/DD

Drawing No. **C-201**
Revision Sheet

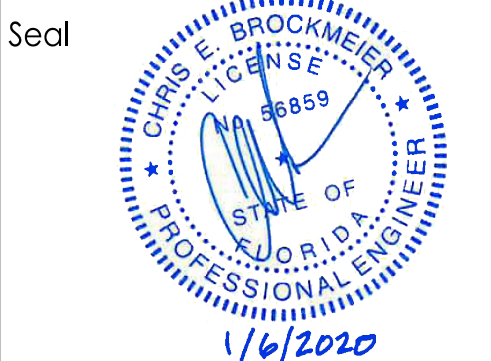
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Revision	By	Appd.	Y/M/D



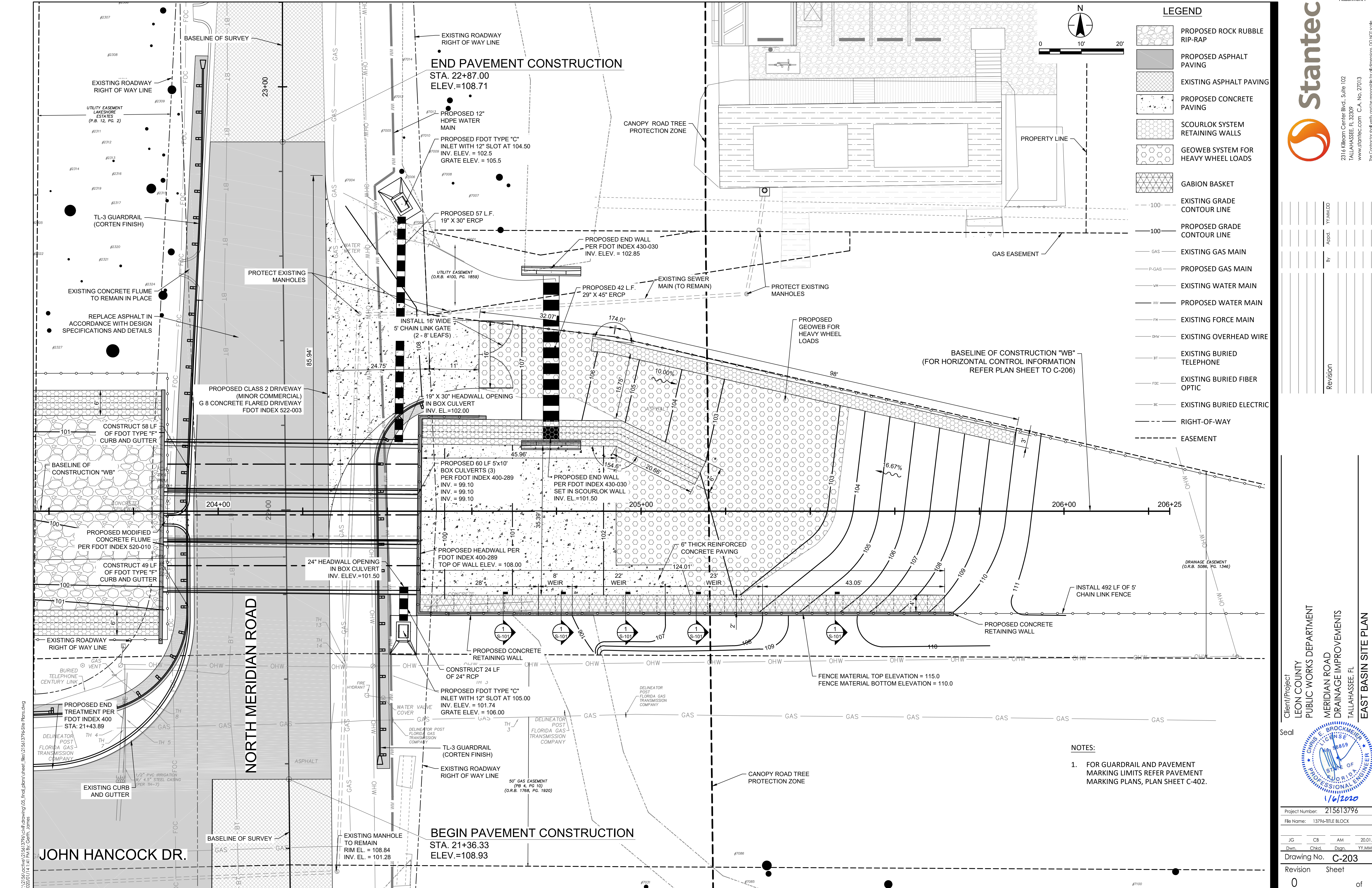
Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
DRAINAGE CULVERT SECTIONS AT
MERIDIAN ROAD STA. 27+46.50



Project Number: 215613796
File Name: 13796-TITLE BLOCK

JG	CB	AM	20.01.06
Dwn.	Chk'd.	Dsgn.	YY/MM/DD

Drawing No. C-202
Revision Sheet



Revision	By	App'd.	Y/M/DD	Issued

Client/Project: LEON COUNTY PUBLIC WORKS DEPARTMENT
Meridian Road Drainage Improvements
Tallahassee, FL
EAST BASIN SITE PLAN

Seal: CHAS E. BROCKMEIER, LICENSE # 18859, STATE OF FLORIDA, PROFESSIONAL ENGINEER, 1/6/2020

Project Number: 215613796
File Name: 13796-TITLE BLOCK

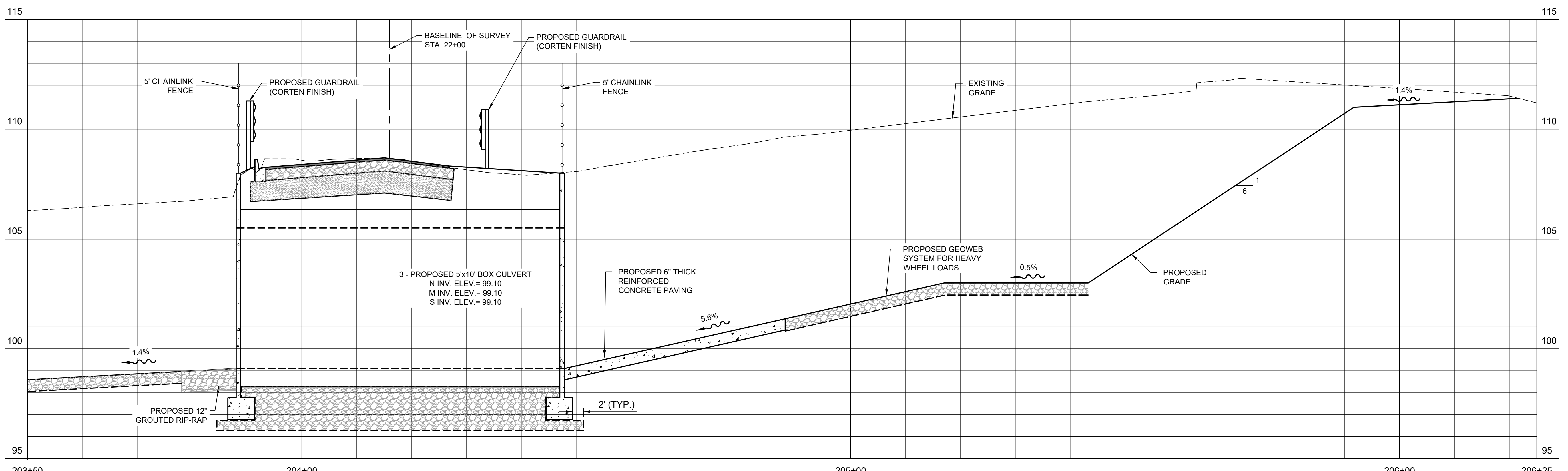
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Dwn	Chk'd	Dsgn	YY MM.DD

Drawing No.: C-203
Revision: Sheet



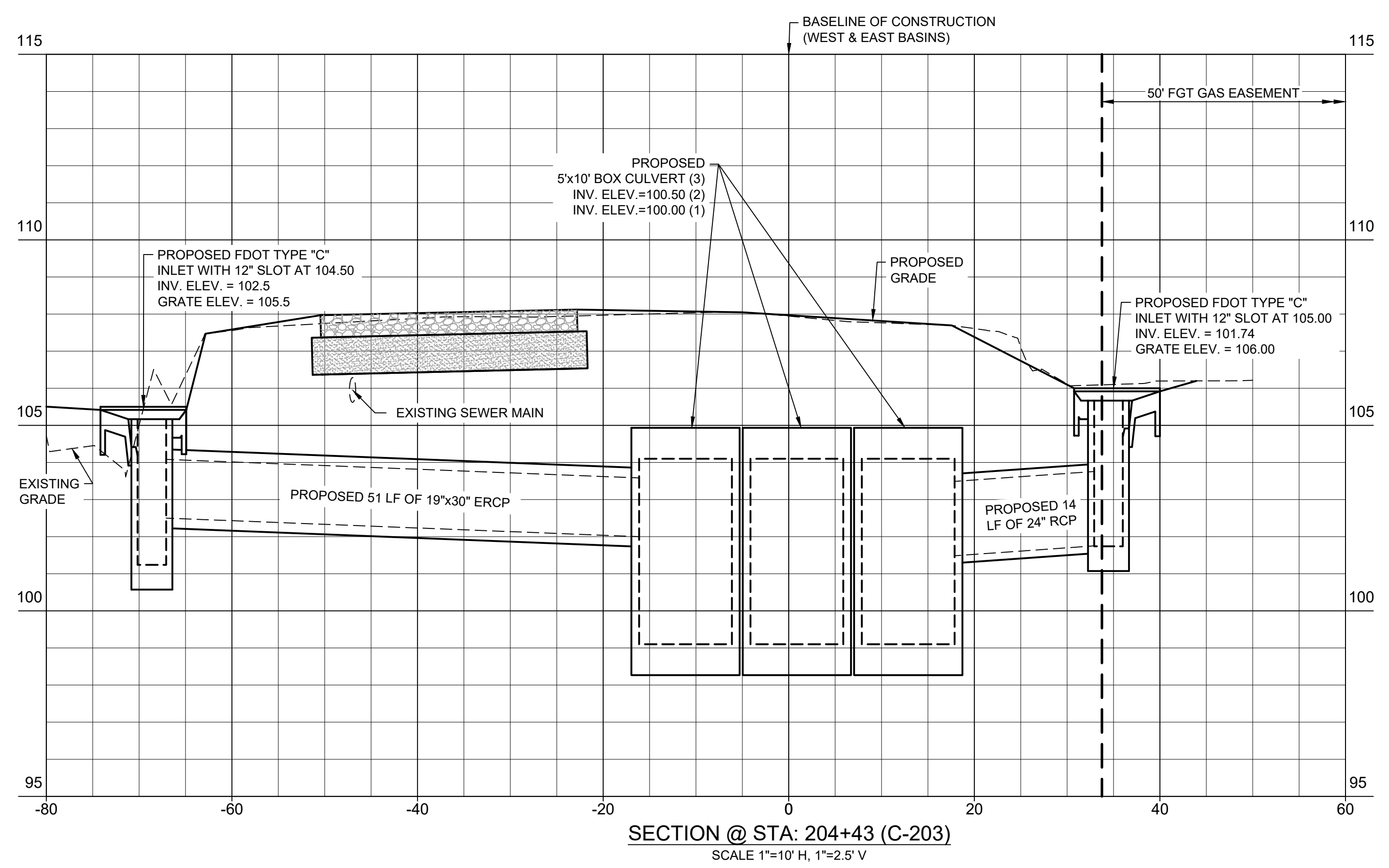
2315 Killearn Center Blvd., Suite 102
Tallahassee, FL 32309
www.stantec.com C.A. No. 27013
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing - any errors or omissions shall be reported to Stantec, without delay. The Copyright to all design and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

Revision	By	App'd.	Y/M/DO
Issued	By	App'd.	Y/M/DO

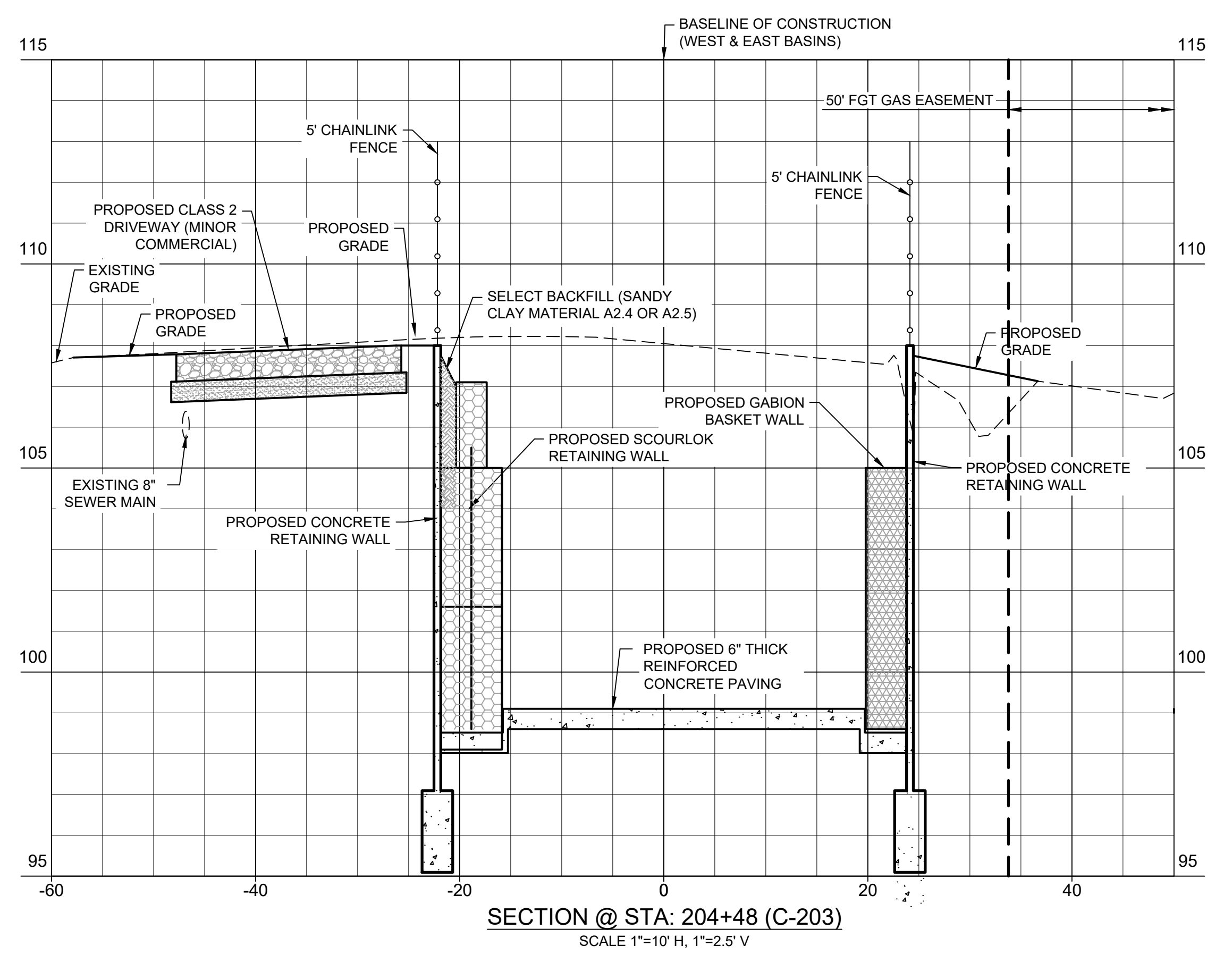


- NOTES:**
- 1. CONTRACTOR SHALL EXCAVATE THE EXISTING SOILS AT THE PROPOSED LOCATION FOR THE THREE 5' X 10' CONCRETE CULVERTS TO A MINIMUM DEPTH OF TWO (2) FEET BELOW THE CULVERT BEARING SURFACE. THE EXCAVATION SHALL EXTEND TO AT LEAST TWO (2) FEET BEYOND THE LIMITS OF THE PROPOSED HEADWALL LOCATION IN EACH DIRECTION.
 - 2. CONTRACTOR SHALL BACKFILL AND COMPACT THE CULVERT BEDDING IN ACCORDANCE TO FDOT STANDARD SPECIFICATION 125.
 - 3. WEST BASIN EXCAVATION REQUIREMENTS:
 - a. EXCAVATE TO A MINIMUM DEPTH OF TWO (2) FEET BELOW THE BOTTOM OF THE SUMP.
 - b. INSTALL A TYPE D-5 GEOTEXTILE (SEPARATION FABRIC) IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 514.
 - c. BACKFILL WITH CLEAN SAND HAVING A FINES CONTENT (% PASSING -200 SIEVE) LESS THAN 15% FREE OF ORGANICS AND DEBRIS.
 - d. PLACE BACKFILL IN 12-INCHES OF LOOSE SOIL OR LESS AND COMPACT MAKING AT LEAST FOUR (4) PASSES WITH A 5-TON ROLLER USING NO VIBRATORY ACTION.

EAST BASIN PROFILE
SCALE 1"=10' H, 1"=2.5' V



SECTION @ STA: 204+43 (C-203)
SCALE 1"=10' H, 1"=2.5' V



SECTION @ STA: 204+48 (C-203)
SCALE 1"=10' H, 1"=2.5' V

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ORIGINAL SHEET - ANSI D

Client/Project
LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

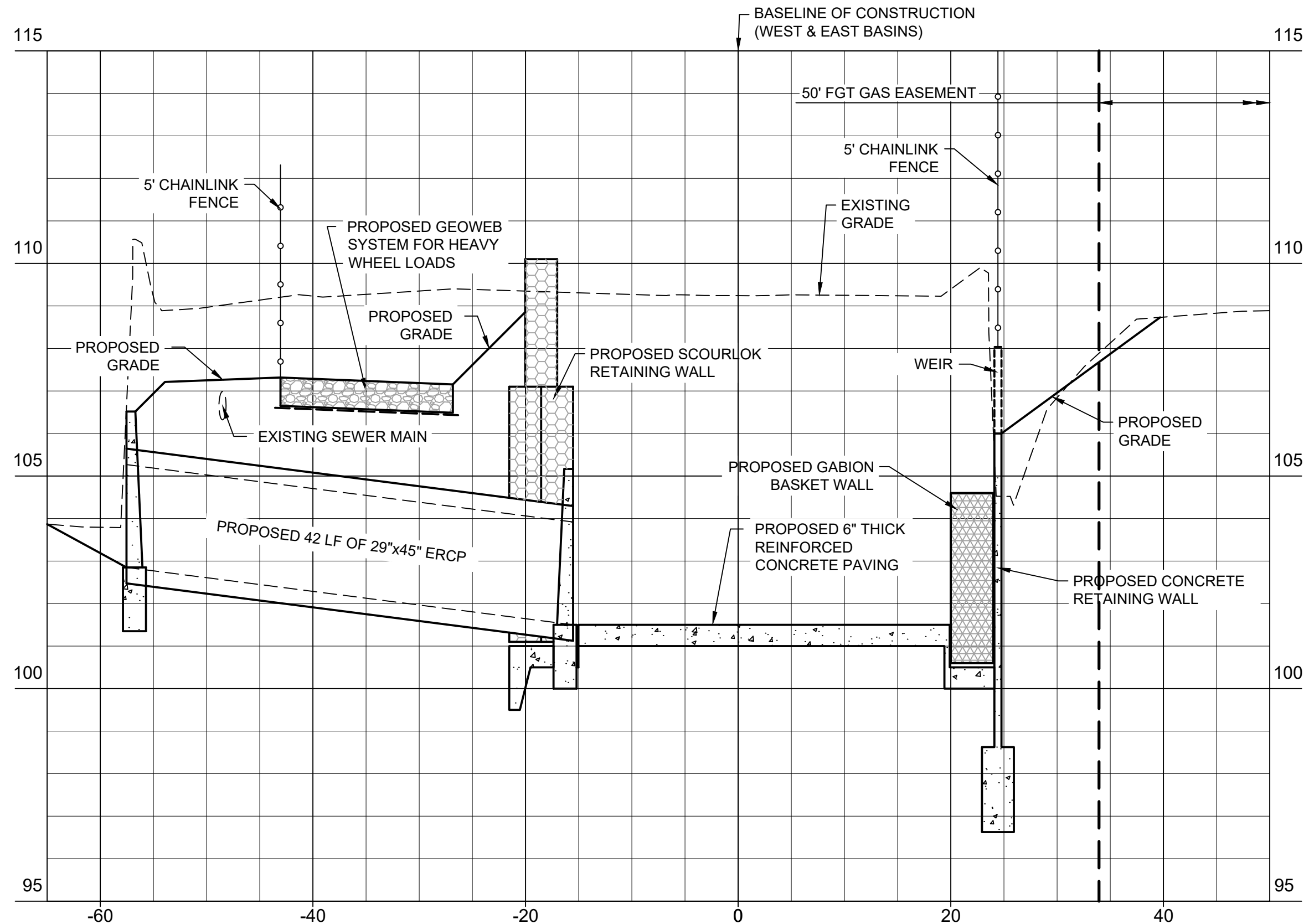
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Project Number: 215613796
File Name: 13796-TITLE BLOCK

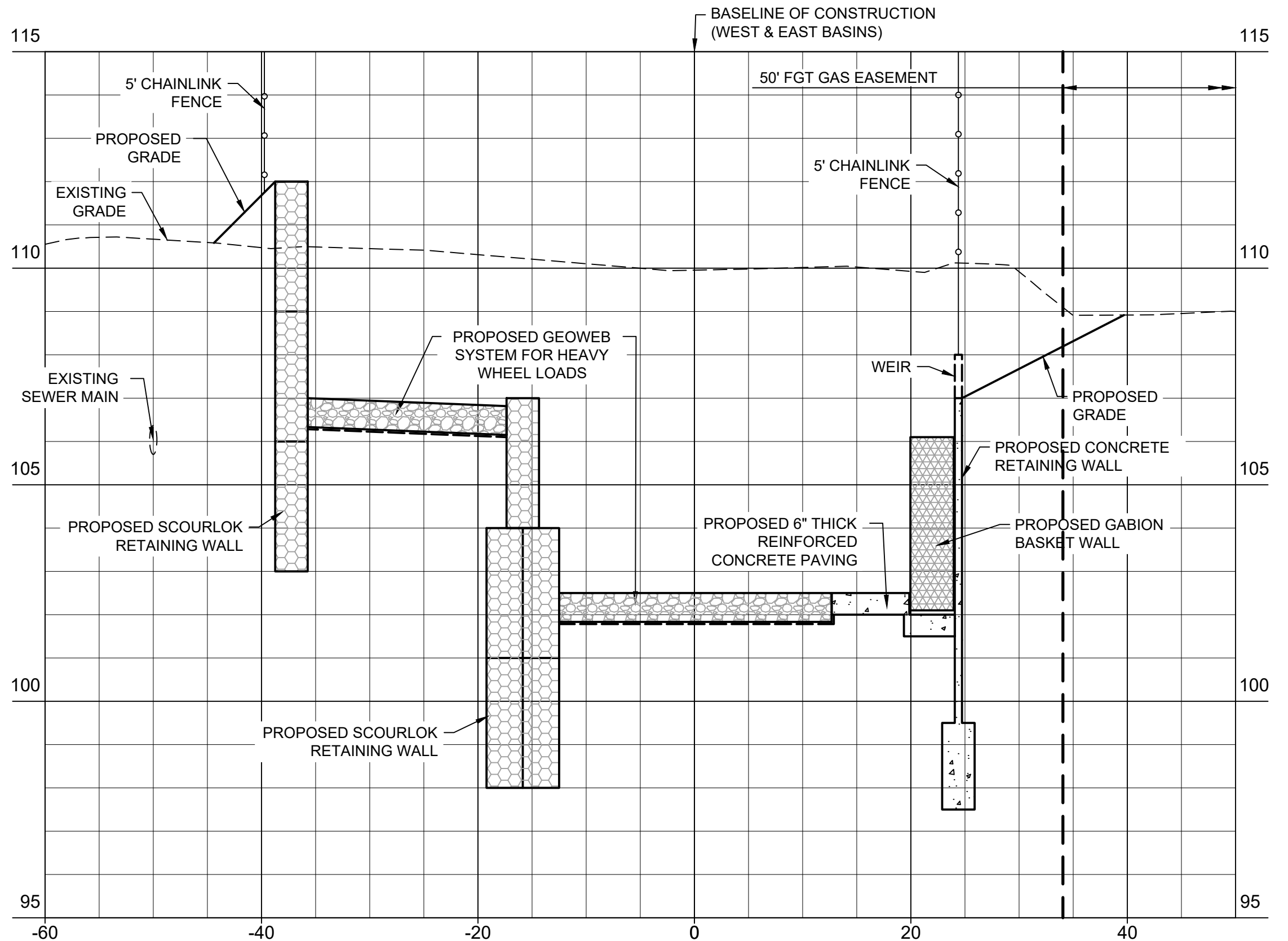
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Dwn	Chk'd	Dsgn	Y/M/DO

Drawing No. **C-204**
Revision Sheet

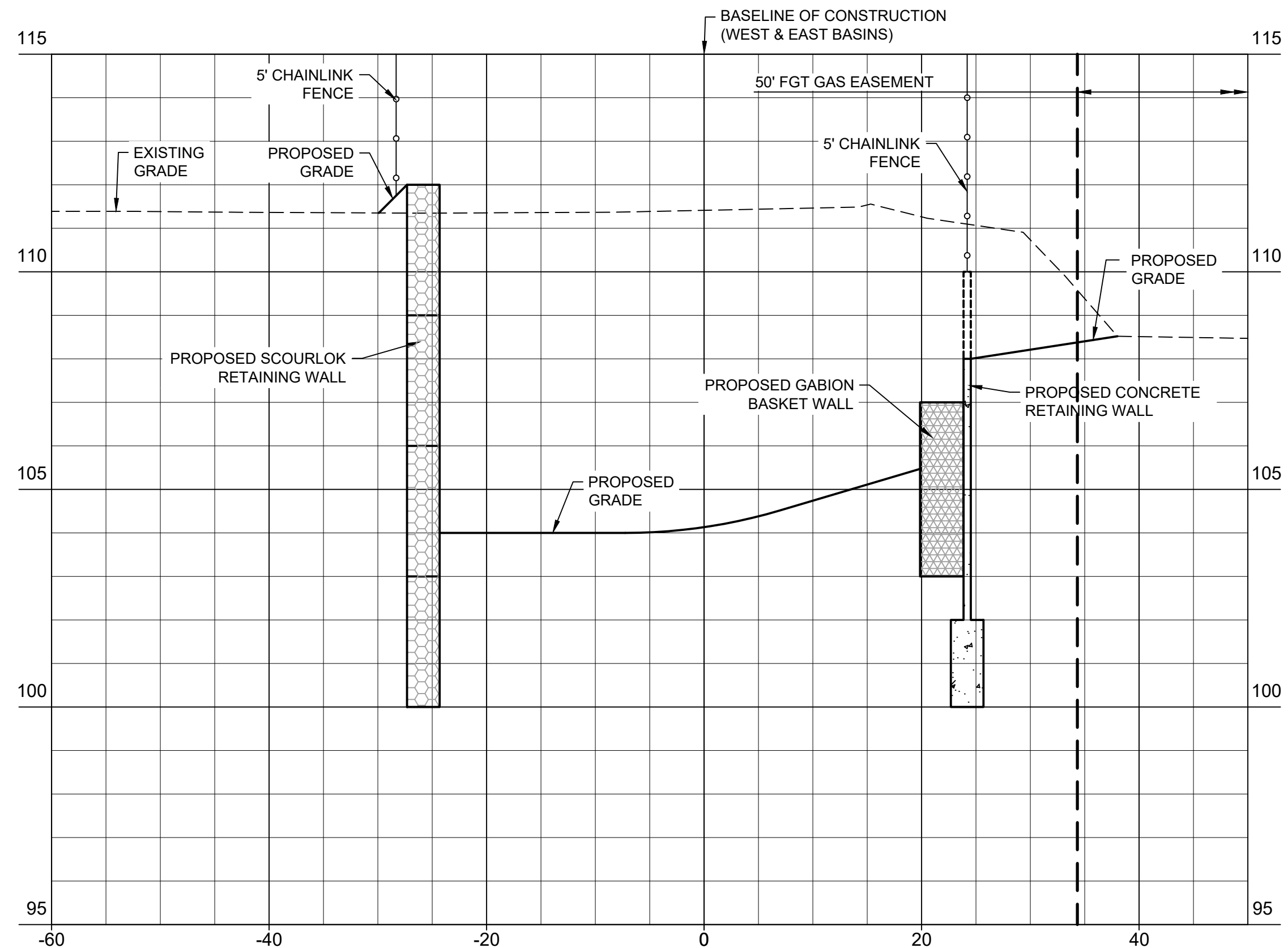
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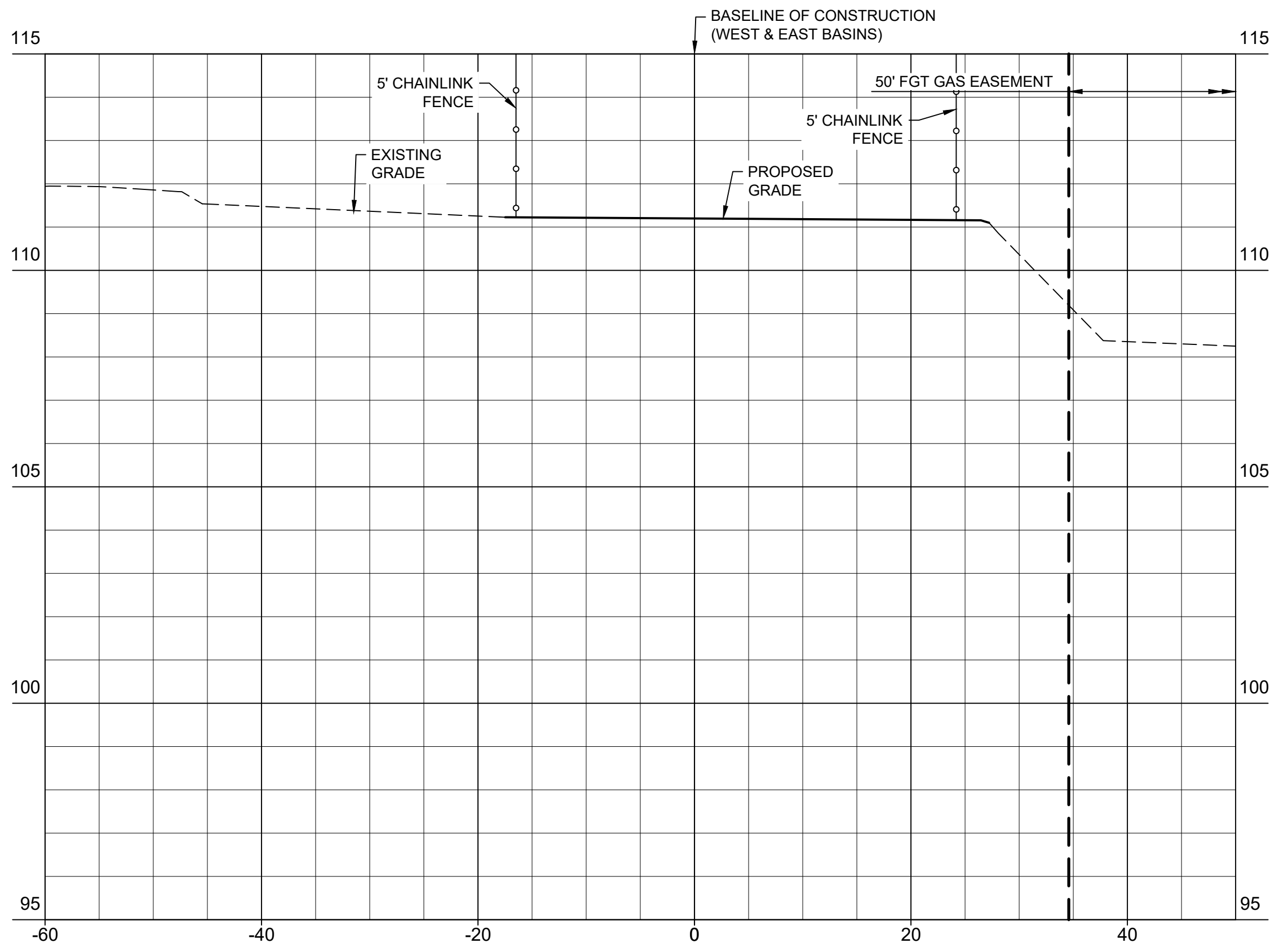
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SECTION @ STA: 205+00 (C-203)
SCALE 1"=10' H, 1"=2.5' V



SECTION @ STA: 205+50 (C-203)
SCALE 1"=10' H, 1"=2.5' V

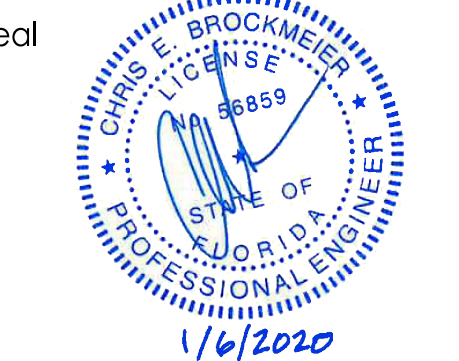


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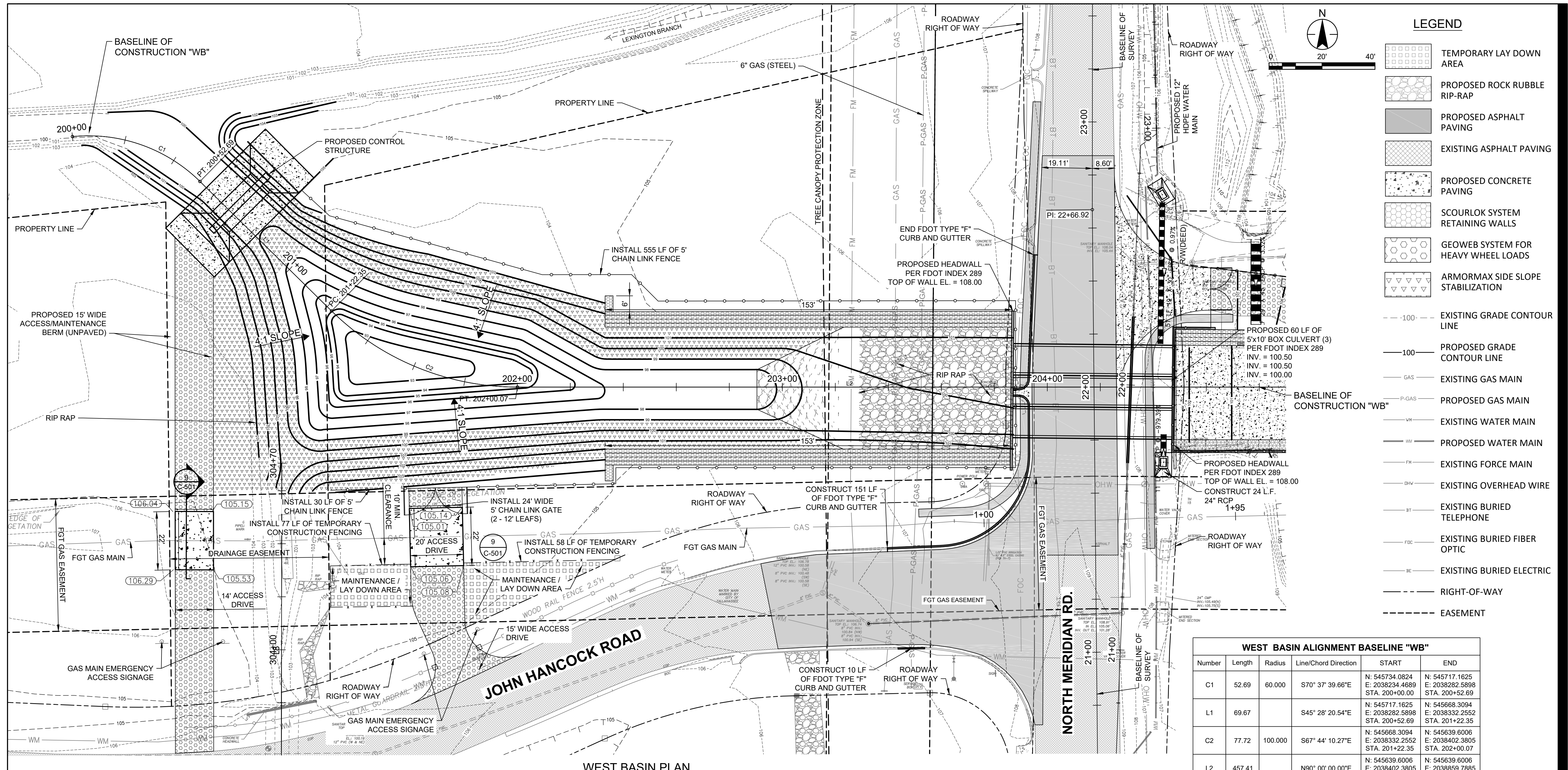
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Revision	By	App'd.	Y.M.M.M.D.D.
			Issued

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
EAST BASIN SECTIONS



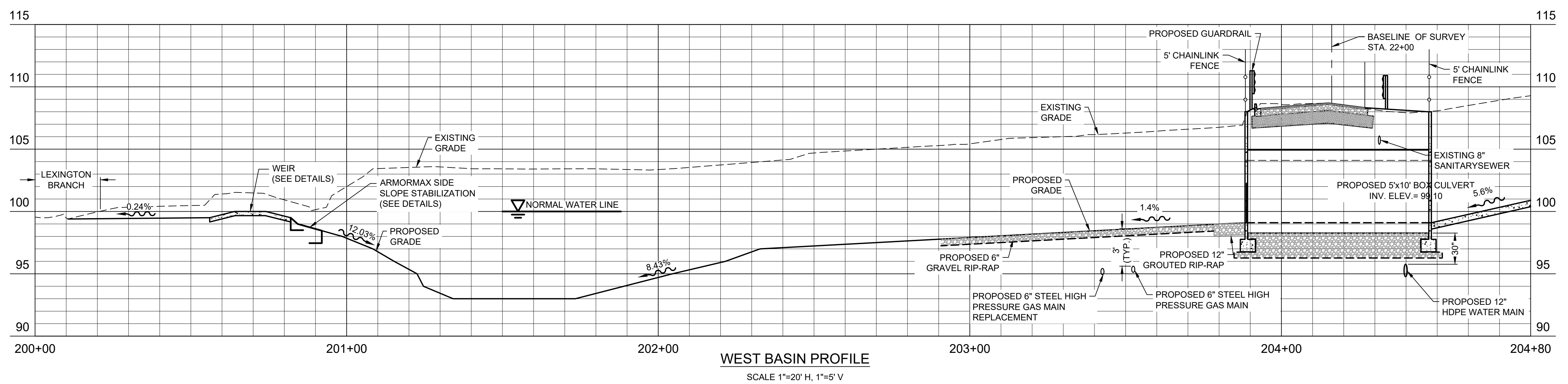
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File Name: 13796-TITLE BLOCK
JG CB AM 20.01.06
Dwn Chkd Dsgn Y.M.M.M.D.D.
Drawing No. C-205
Revision Sheet



LEGEND

- TEMPORARY LAY DOWN AREA
- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE PAVING
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- ARMORMAX SIDE SLOPE STABILIZATION
- 100- EXISTING GRADE CONTOUR LINE
- 100- PROPOSED GRADE CONTOUR LINE
- GAS EXISTING GAS MAIN
- P-GAS PROPOSED GAS MAIN
- WM EXISTING WATER MAIN
- PW PROPOSED WATER MAIN
- FM EXISTING FORCE MAIN
- OHV EXISTING OVERHEAD WIRE
- BT EXISTING BURIED TELEPHONE
- FOC EXISTING BURIED FIBER OPTIC
- BE EXISTING BURIED ELECTRIC
- RIGHT-OF-WAY
- EASEMENT

WEST BASIN ALIGNMENT BASELINE "WB"						
Number	Length	Radius	Line/Chord Direction	START	END	
C1	52.69	60.000	S70° 37' 39.66"E	N: 545734.0824 E: 2038234.4689 STA. 200+00.00	N: 545717.1625 E: 2038282.5898 STA. 200+52.69	
L1	69.67		S45° 28' 20.54"E	N: 545717.1625 E: 2038282.5898 STA. 200+52.69	N: 545668.3094 E: 2038332.2552 STA. 201+22.35	
C2	77.72	100.000	S67° 44' 10.27"E	N: 545668.3094 E: 2038332.2552 STA. 201+22.35	N: 545639.6006 E: 2038402.3805 STA. 202+00.07	
L2	457.41		N90° 00' 00.00"E	N: 545639.6006 E: 2038402.3805 STA. 202+00.07	N: 545639.6006 E: 2038859.7885 STA. 206+25.00	



NOTES:
 1. FOR GUARDRAIL AND PAVEMENT MARKING LIMITS REFER PAVEMENT MARKING PLANS, PLAN SHEET C-402.

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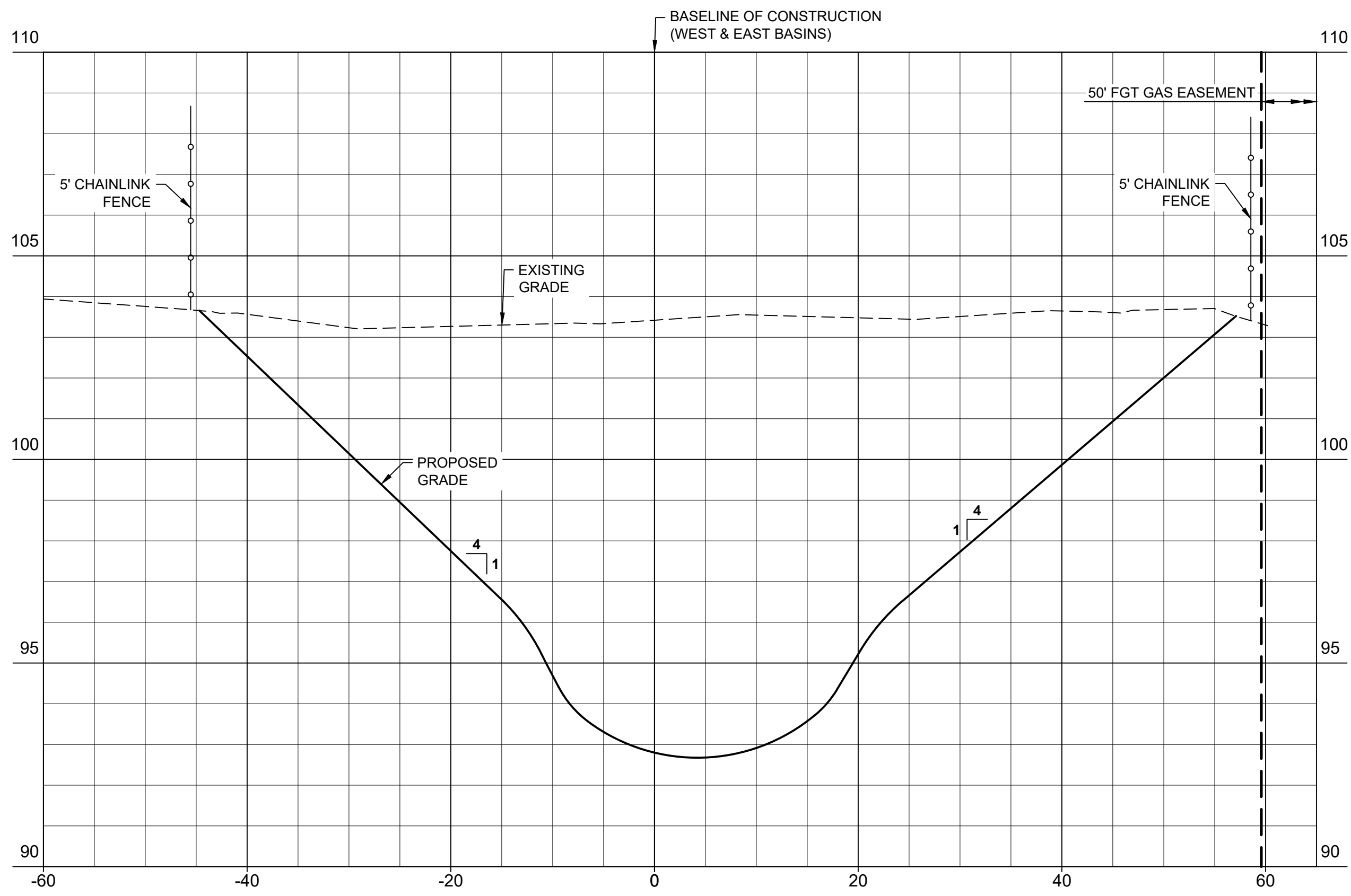
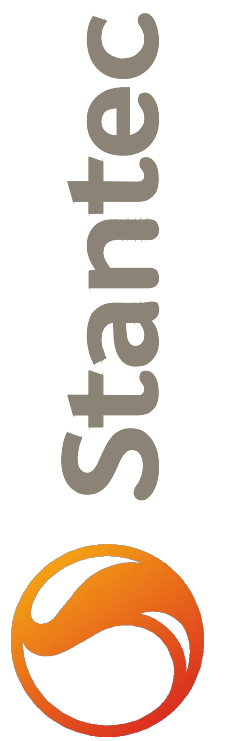
Revision	By	Appd.	Y.M.M.D.D.

Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
 WEST BASIN PLAN
 AND PROFILE

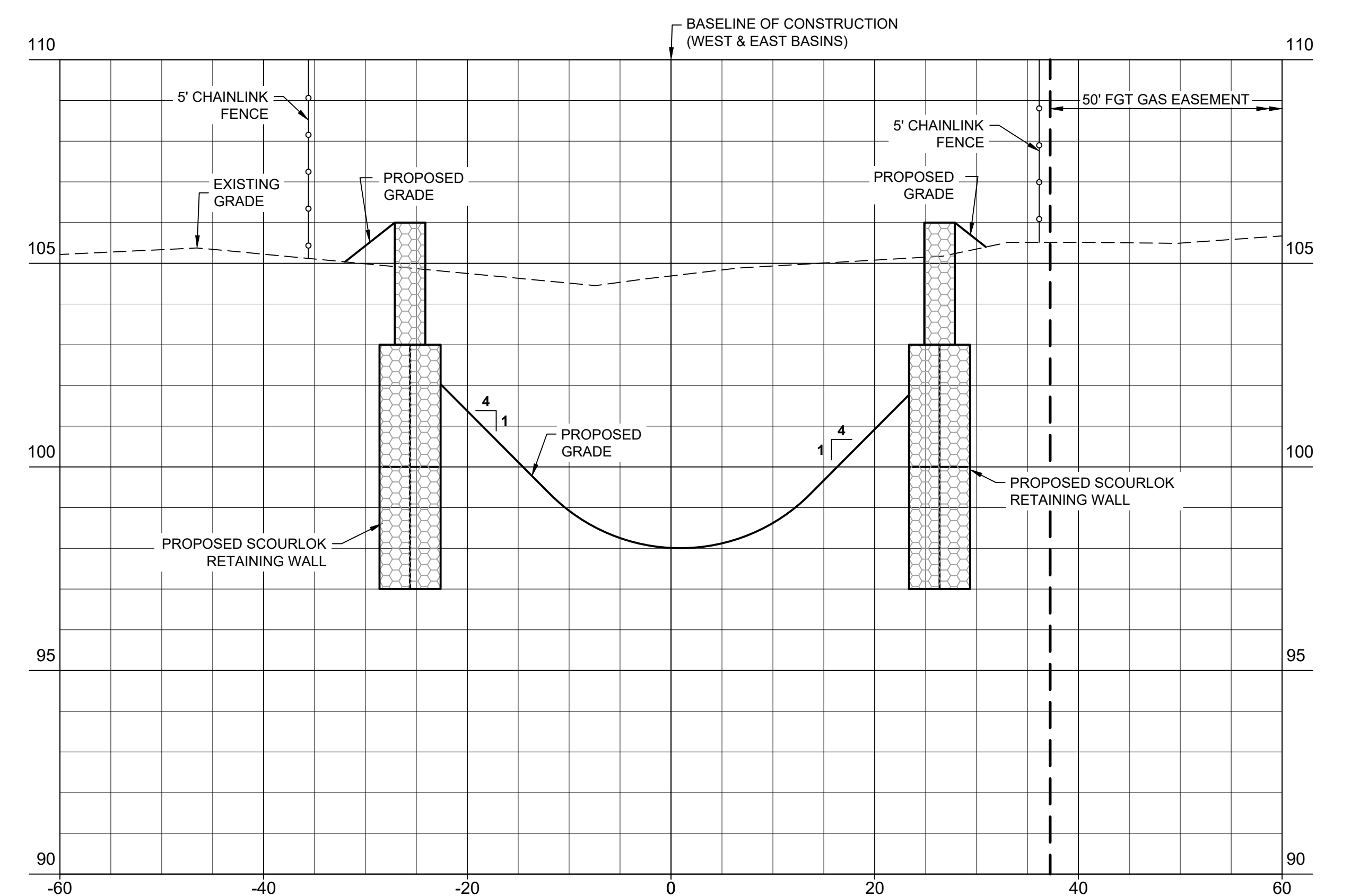
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Dwn	Chkd	Dsgn	YY.MM.DD

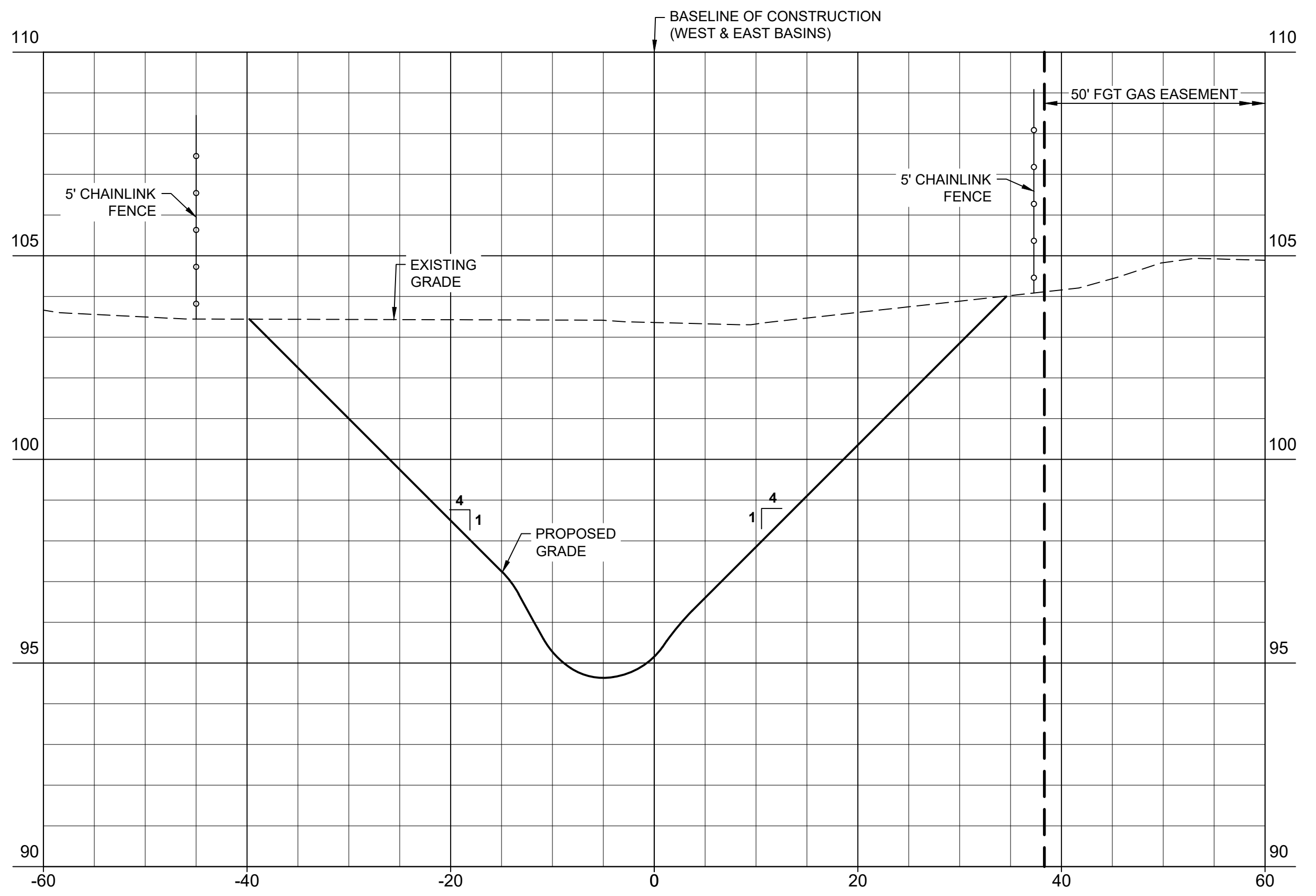
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 Revision Sheet of



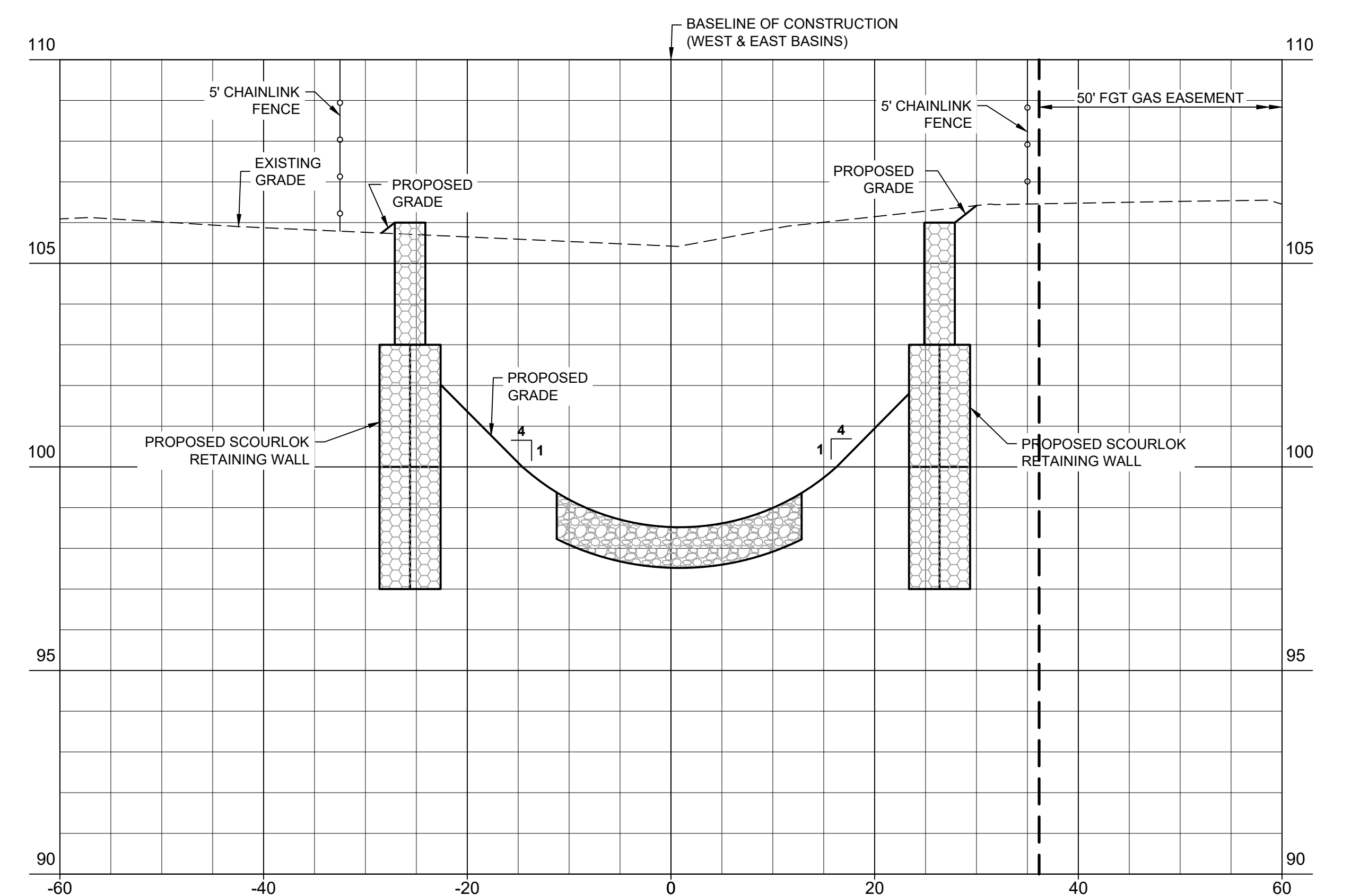
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SECTION @ STA: 202+50 (C-206)
SCALE 1"=10' H, 1"=2.5' V



SECTION @ STA: 202+00 (C-206)
SCALE 1"=10' H, 1"=2.5' V



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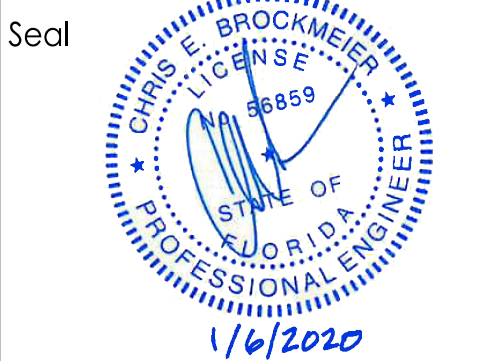
Revision	By	Appd.	Y.Y.MM.DD

Issue	By	Appd.	Y.Y.MM.DD

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ORIGINAL SHEET - ANSI D

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
WEST BASIN SECTIONS



Project Number: 215613796

File Name: 13796-TITLE BLOCK

JG	C8	AM	20.01.06
Dwn.	Chkd.	Dsgn.	Y.Y.MM.DD

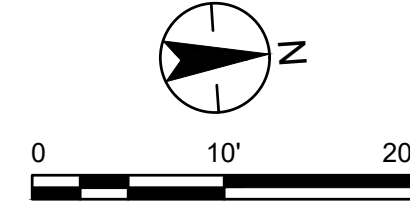
Drawing No. C-207

Revision Sheet

0 of



LEXINGTON CONVEYANCE DITCH BASELINE "L"				
LINE	LENGTH	BEARING	START POINT (N, E)	END POINT (N, E)
L6	236.632	N00°22'46"E	545140.69, 2038306.27 STA. 300+00.00	545377.31, 2038307.83 STA. 302+36.63
L7	92.646	N03°21'36"E	545377.31, 2038307.83 STA. 302+36.63	545469.80, 2038313.26 STA. 303+29.28
L8	141.097	N00°04'52"E	545469.80, 2038313.26 STA. 303+29.28	545610.90, 2038313.46 STA. 304+70.00

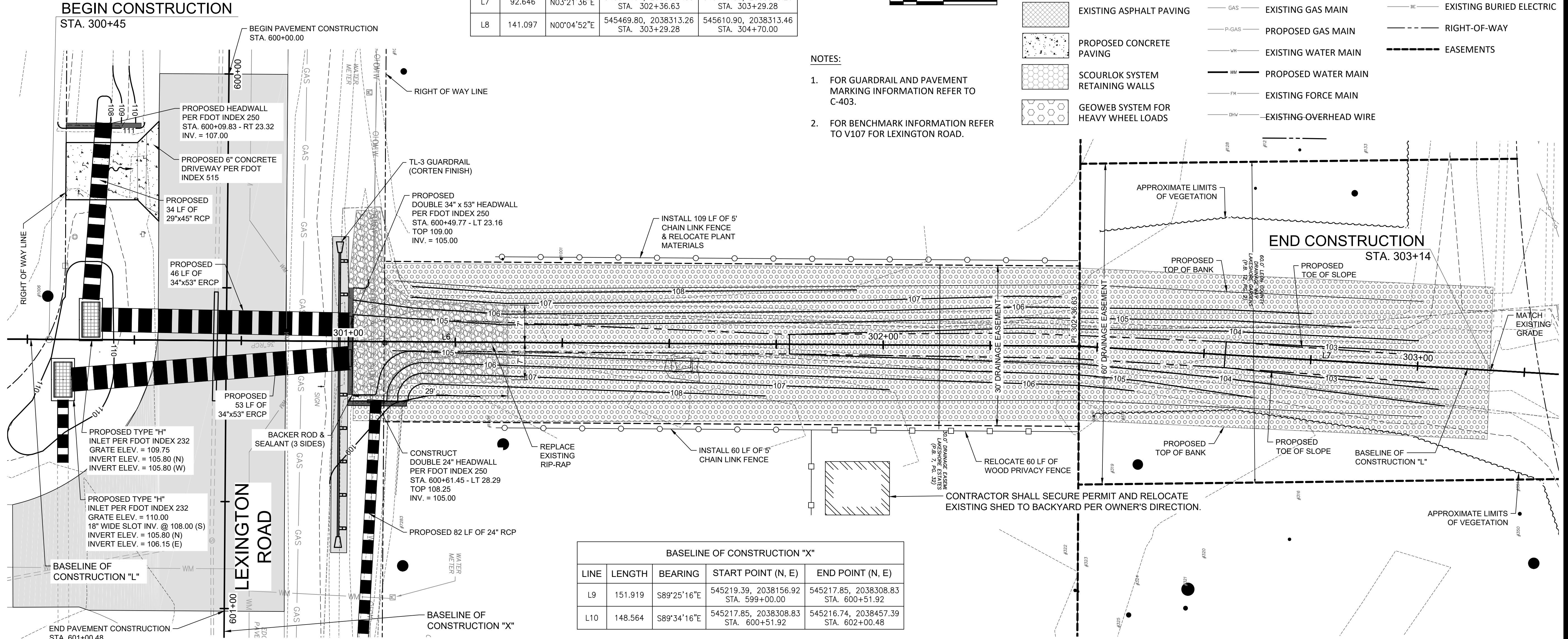


LEGEND

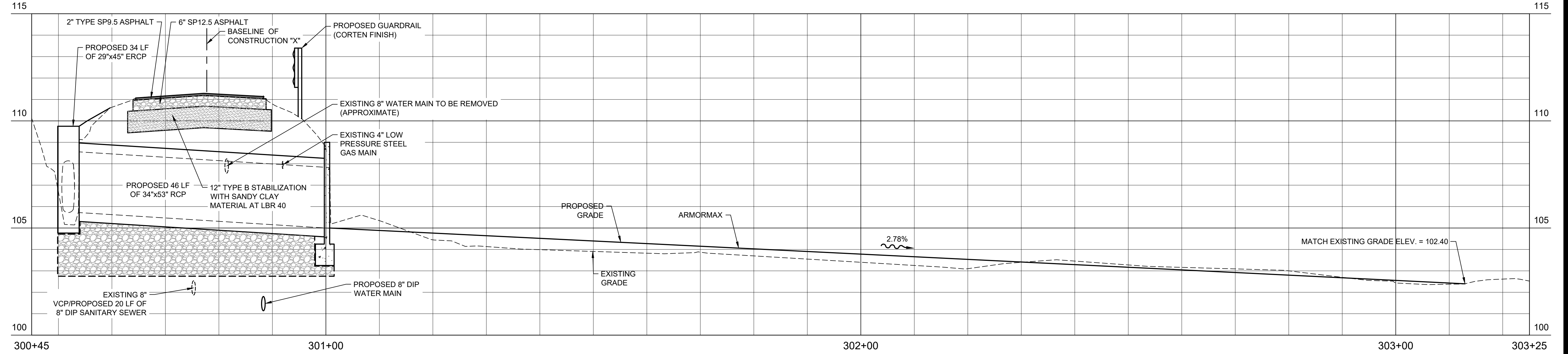
- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE PAVING
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- EXISTING GRADE CONTOUR LINE
- PROPOSED GRADE CONTOUR LINE
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING FORCE MAIN
- EXISTING OVERHEAD WIRE
- EXISTING BURIED TELEPHONE
- EXISTING BURIED FIBER OPTIC
- EXISTING BURIED ELECTRIC
- RIGHT-OF-WAY
- EASEMENTS

NOTES:

- FOR GUARDRAIL AND PAVEMENT MARKING INFORMATION REFER TO C-403.
- FOR BENCHMARK INFORMATION REFER TO V107 FOR LEXINGTON ROAD.

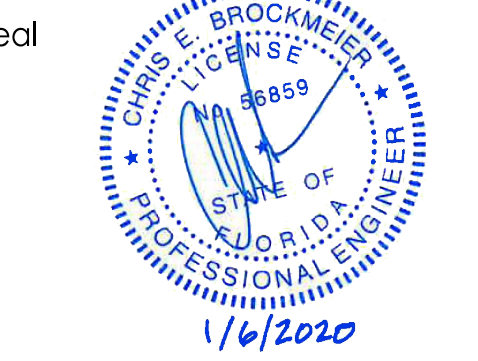


BASELINE OF CONSTRUCTION "X"				
LINE	LENGTH	BEARING	START POINT (N, E)	END POINT (N, E)
L9	151.919	S89°25'16"E	545219.39, 2038156.92 STA. 599+00.00	545217.85, 2038308.83 STA. 600+51.92
L10	148.564	S89°34'16"E	545217.85, 2038308.83 STA. 600+51.92	545216.74, 2038457.39 STA. 602+00.48



Revision	By	App'd.	Y.M.M.D.D.

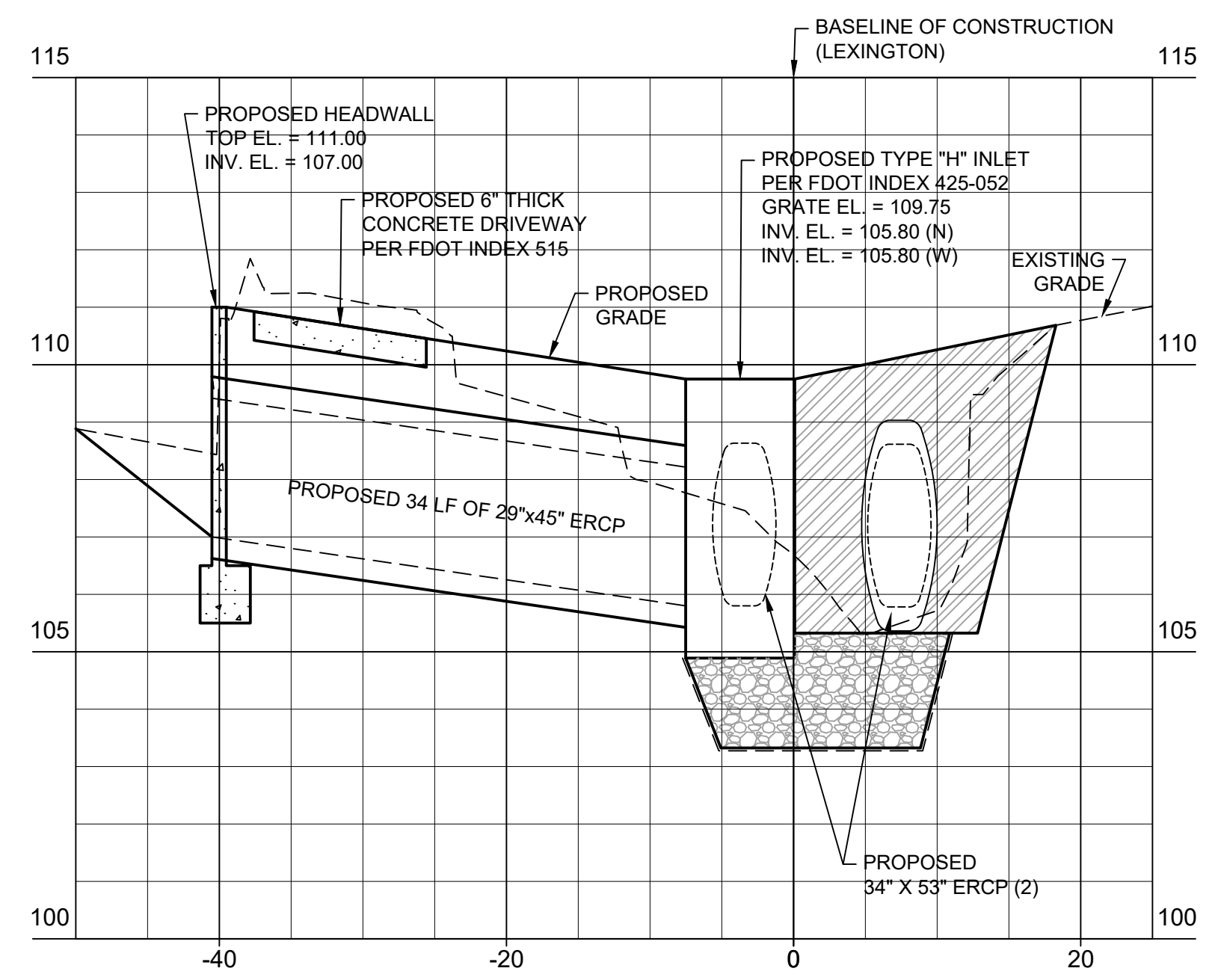
Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
LEXINGTON ROAD DRAINAGE CULVERT
PLAN AND PROFILE



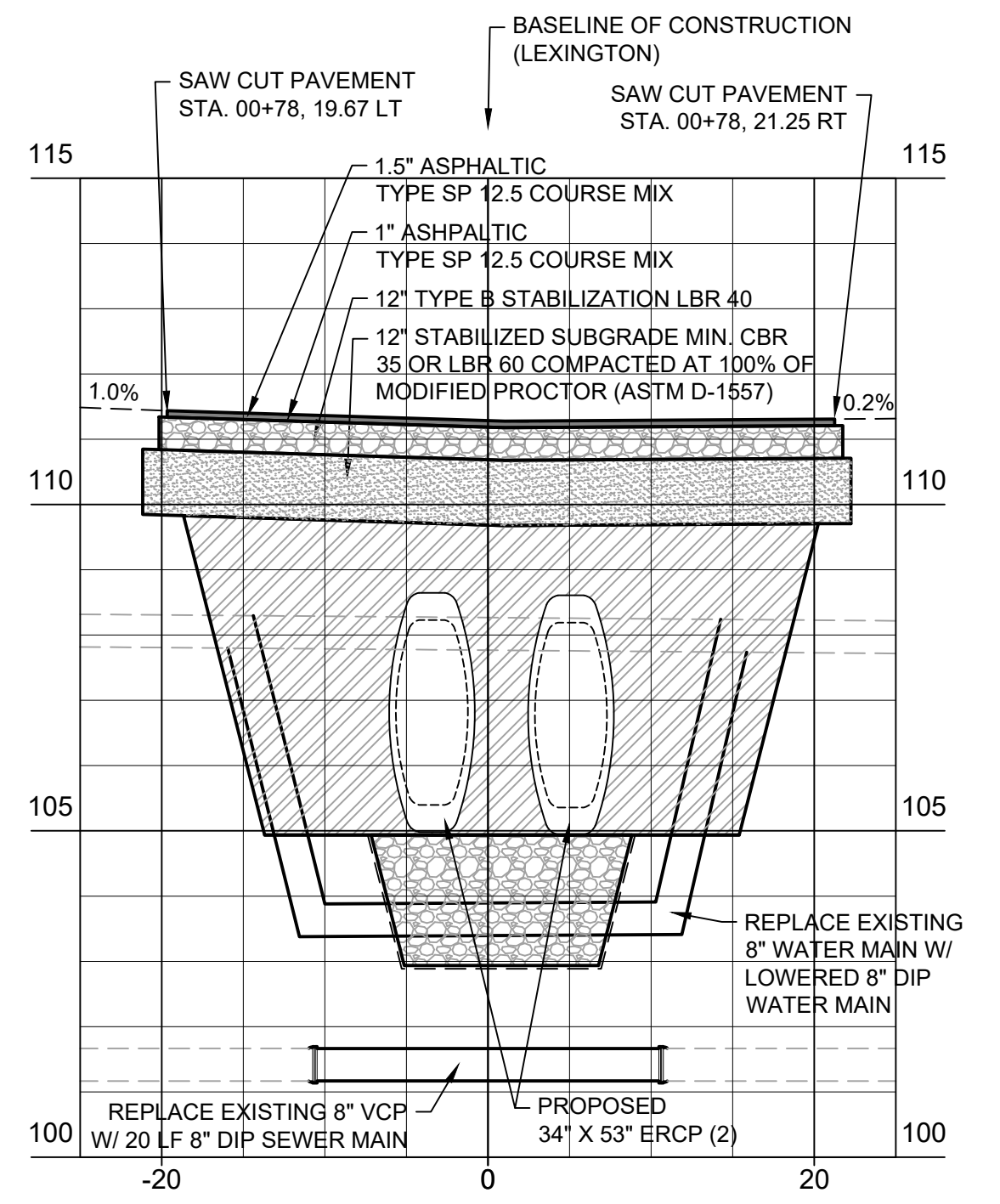
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File Name: 13796-TITLE BLOCK

JG	CS	AM	20.01.06
Dwn	Chkd	Dsgn	Y.M.M.D.D

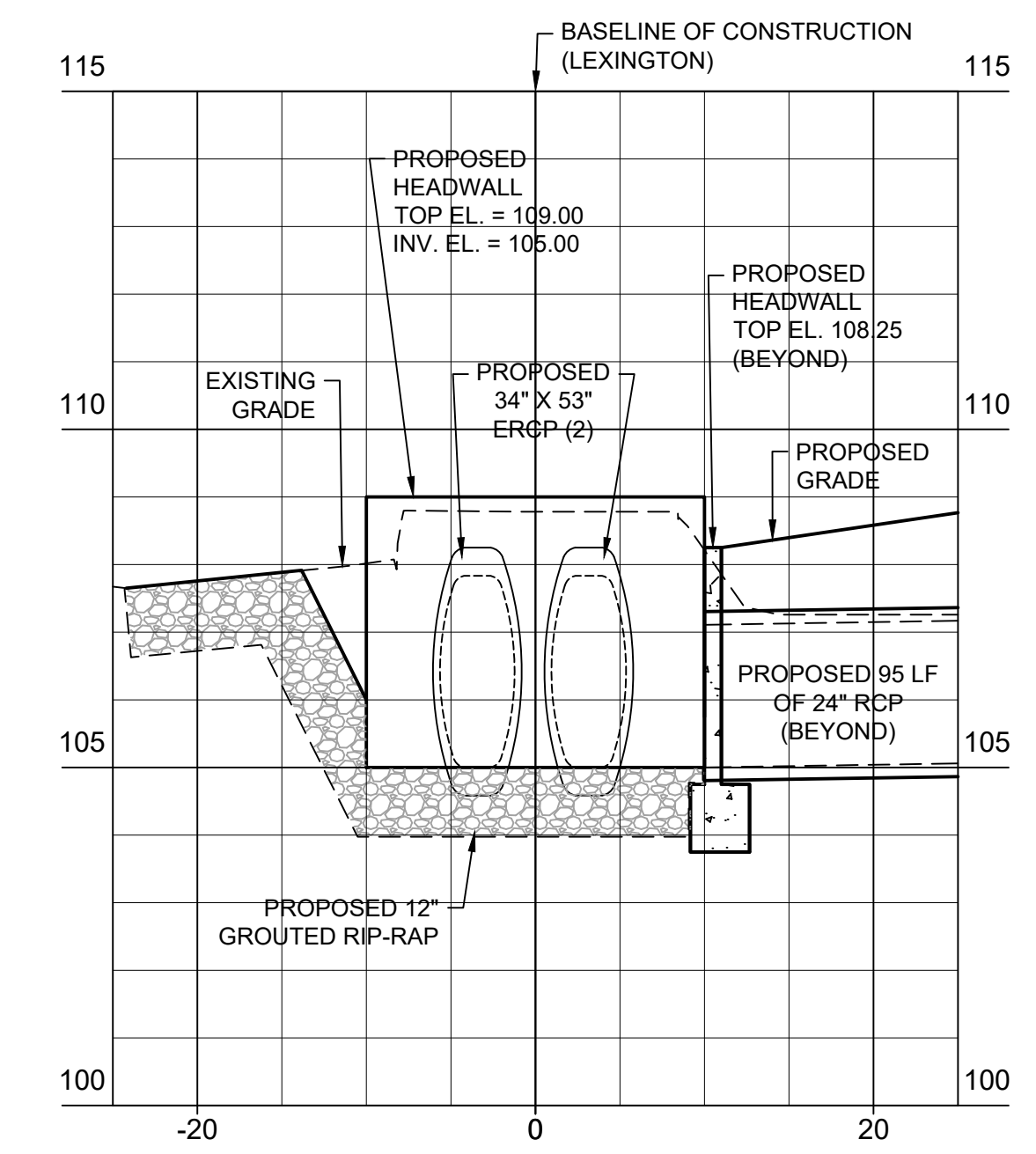
Drawing No. C-209
Revision Sheet



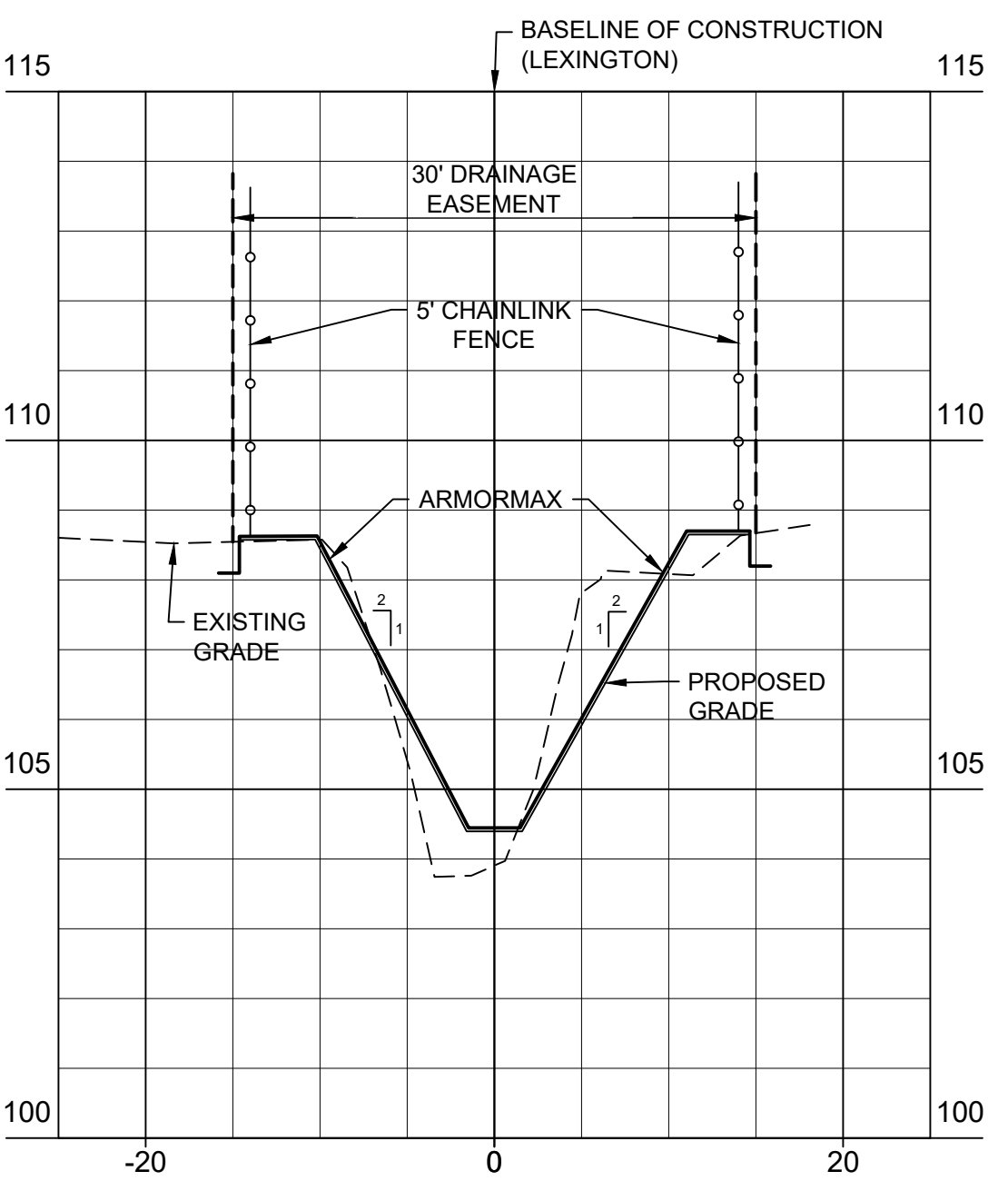
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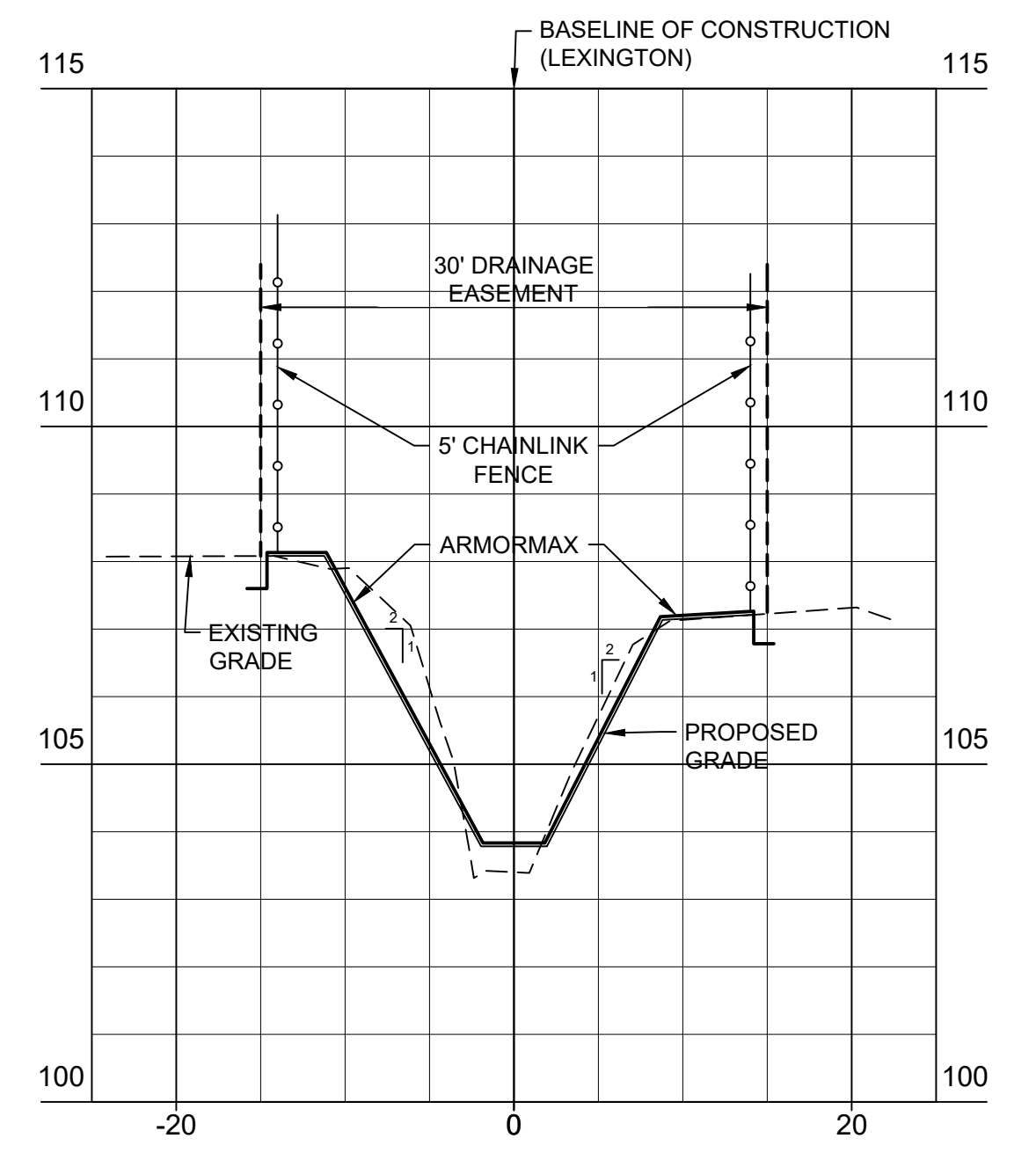
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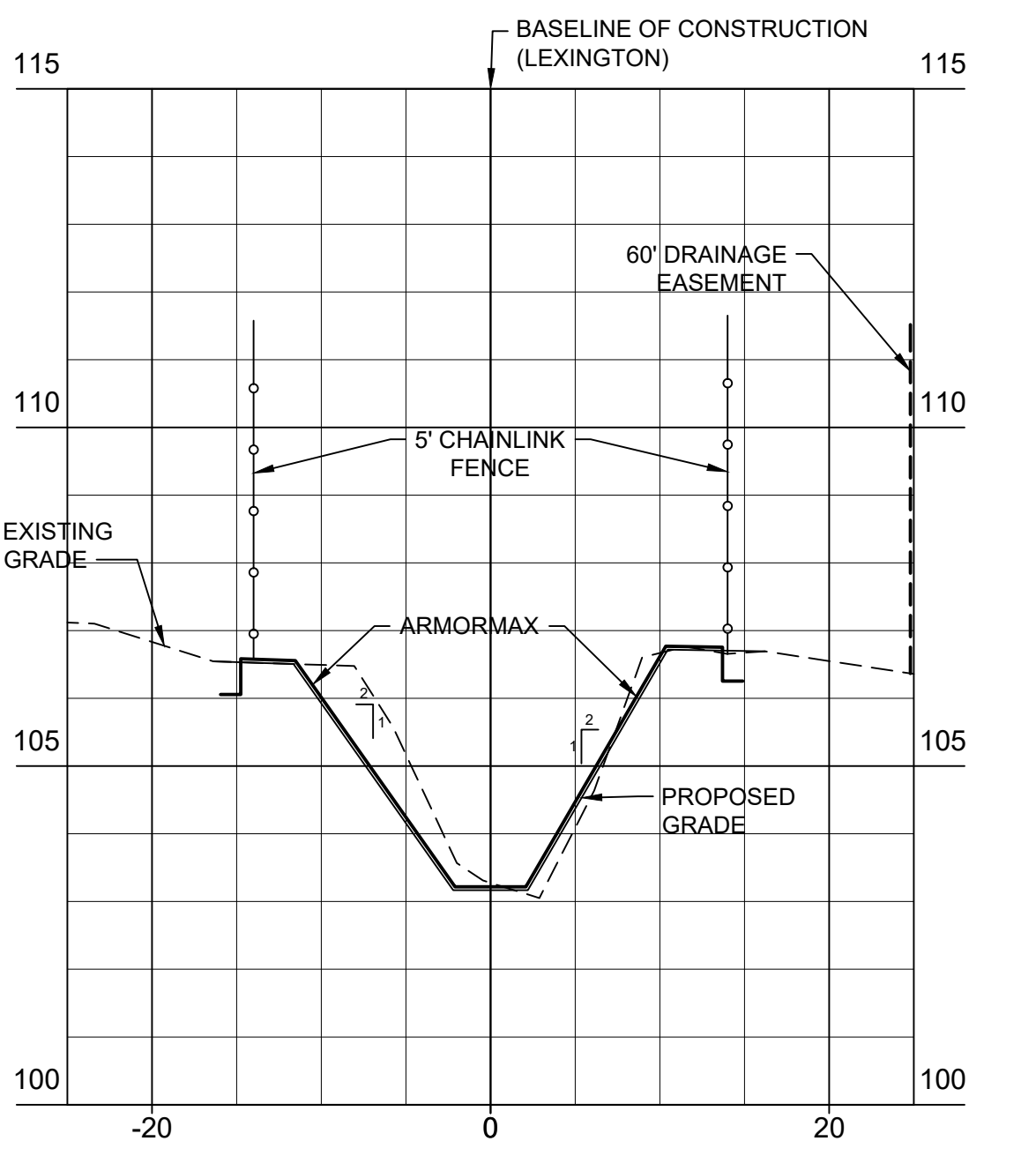
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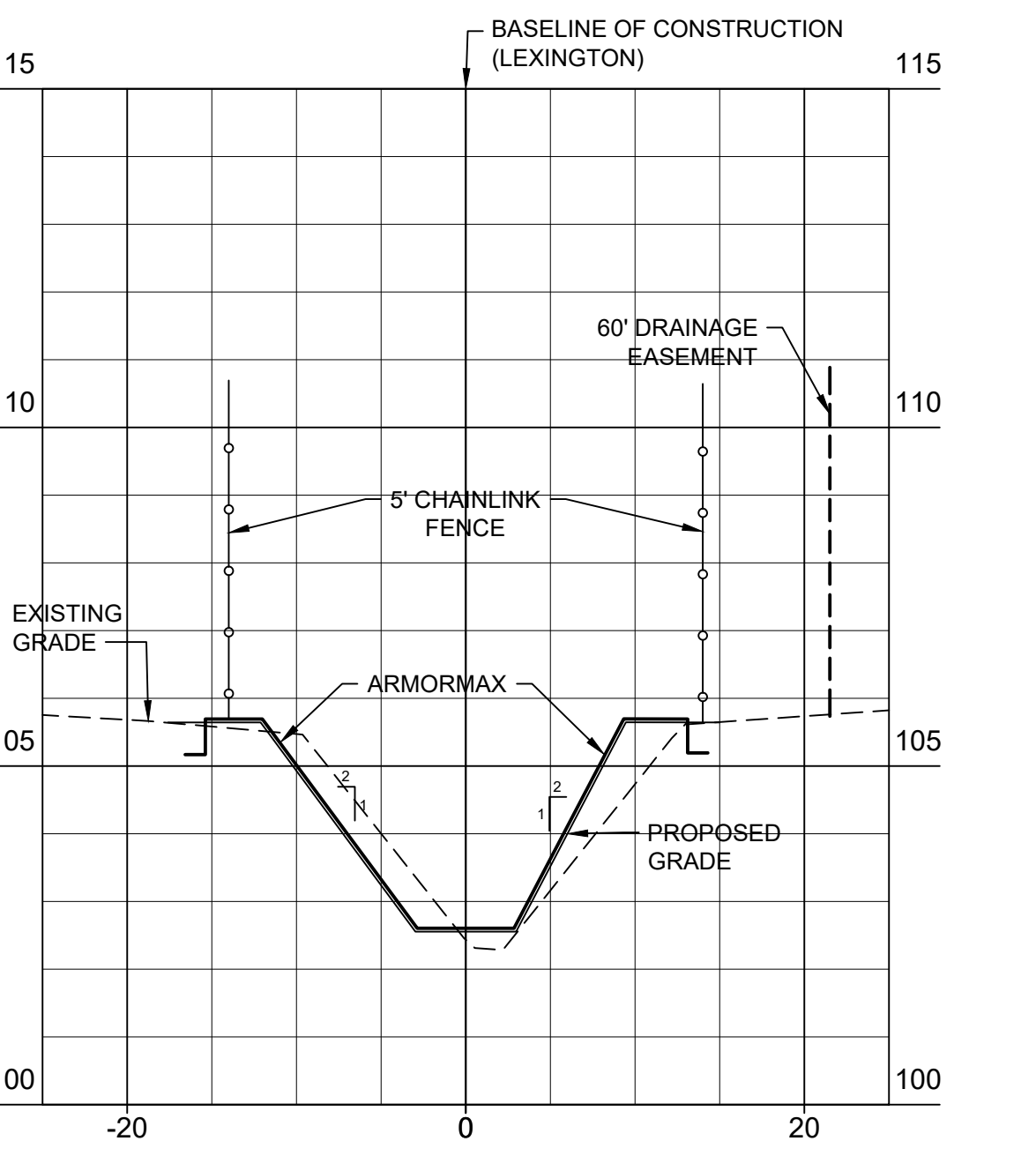
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SECTION @ STA: 302+00 (C-209)
SCALE 1"=10' H, 1"=2.5' V



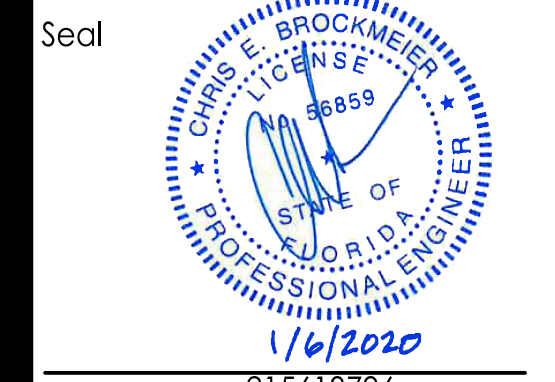
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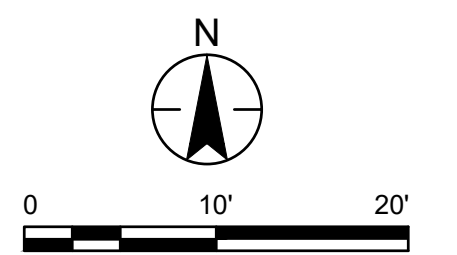
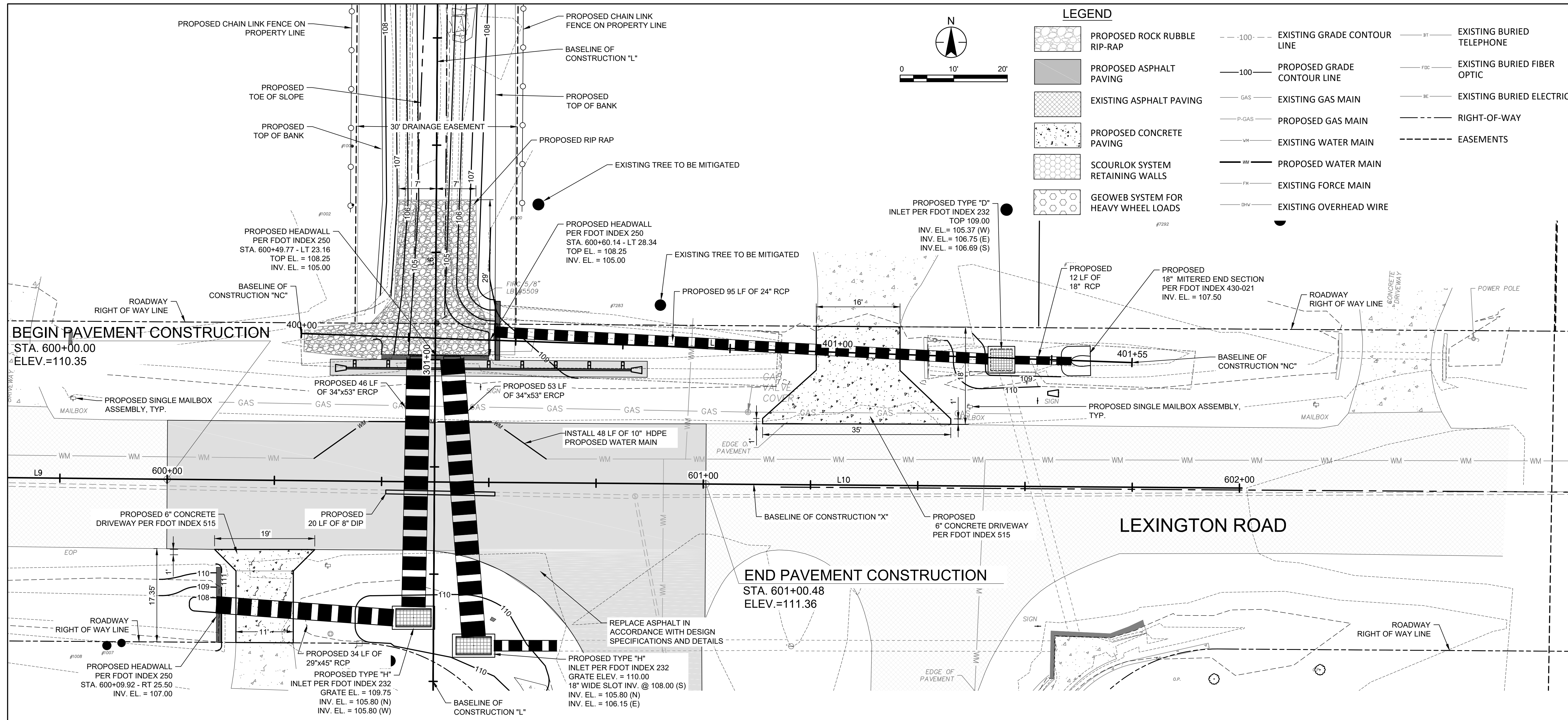


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Revision	By	Appd.	Date

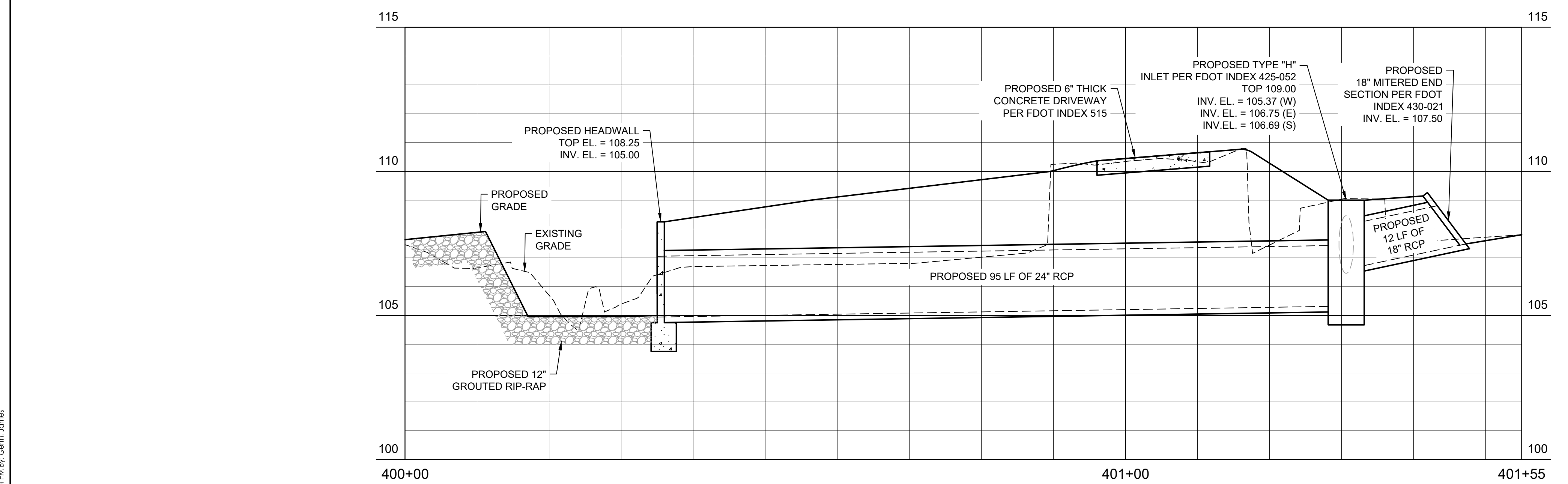
Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
LEXINGTON SECTIONS





LEGEND

	PROPOSED ROCK RUBBLE RIP-RAP		EXISTING BURIED TELEPHONE
	PROPOSED ASPHALT PAVING		EXISTING BURIED FIBER OPTIC
	EXISTING ASPHALT PAVING		EXISTING BURIED ELECTRIC
	PROPOSED CONCRETE PAVING		RIGHT-OF-WAY
	SCOURLOK SYSTEM RETAINING WALLS		EASEMENTS
	GEOWEB SYSTEM FOR HEAVY WHEEL LOADS		
	EXISTING GRADE CONTOUR LINE		
	PROPOSED GRADE CONTOUR LINE		
	EXISTING GAS MAIN		
	PROPOSED GAS MAIN		
	EXISTING WATER MAIN		
	PROPOSED WATER MAIN		
	EXISTING FORCE MAIN		
	EXISTING OVERHEAD WIRE		



- NOTES:**
- FOR GUARDRAIL AND PAVEMENT MARKING INFORMATION REFER TO C-403.
 - FOR BENCHMARK INFORMATION REFER TO V107 FOR LEXINGTON ROAD.
 - FOR BASELINE/CENTERLINE "L" HORIZONTAL CONTROL DATA, REFER TO C-209.

BASELINE OF CONSTRUCTION "X"

LINE	LENGTH	BEARING	START POINT (N, E)	END POINT (N, E)
L9	151.919	S89°25'16"E	545219.39, 2038156.92 STA. 599+00.00	545217.85, 2038308.83 STA. 600+51.92
L10	148.564	S89°34'16"E	545217.85, 2038308.83 STA. 600+51.92	545216.74, 2038457.39 STA. 602+00.48

BASELINE OF CONSTRUCTION "NC"

LINE	LENGTH	BEARING	START POINT (N, E)	END POINT (N, E)
L15	155.000	S87°59'48"E	545245.56, 2038281.97 STA. 400+00.00	545240.14, 2038436.87 STA. 401+55.00

LEXINGTON ROAD NORTH CULVERT PROFILE
SCALE 1"=10' H, 1"=25' V

Revision	By	Appd.	Yr.

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
LEXINGTON ROAD NORTH CULVERT
PLAN & PROFILE

Seal

Project Number: 215613796
File Name: 13796-TITLE BLOCK

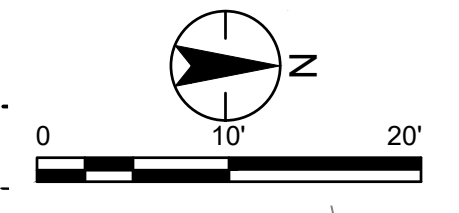
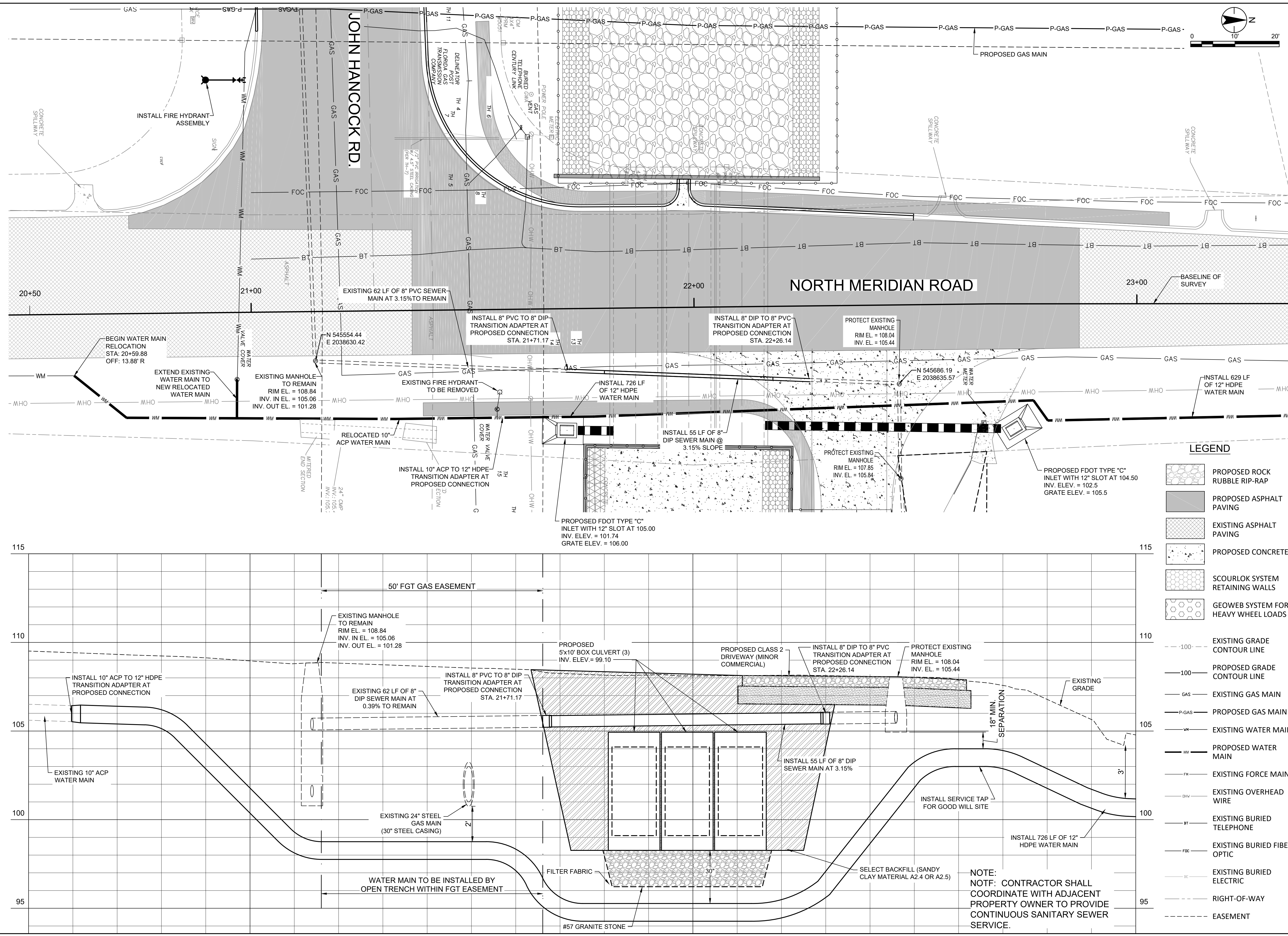
JG	C8	AM	20.01.06
Dwn.	Chk'd.	Dsgn.	Yr.

Drawing No. **C-211**
Revision Sheet

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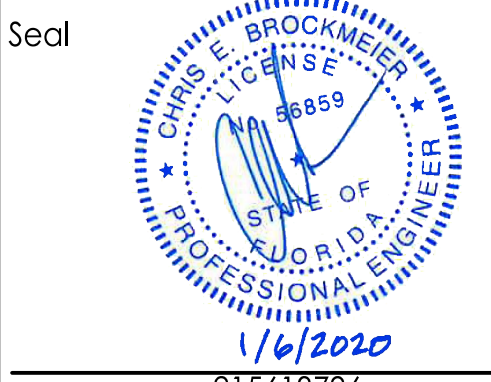


Revision	By	Appd.	Y/M/DD

LEGEND

- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- - - EXISTING GRADE CONTOUR LINE
- PROPOSED GRADE CONTOUR LINE
- GAS — EXISTING GAS MAIN
- P-GAS — PROPOSED GAS MAIN
- WM — EXISTING WATER MAIN
- WM — PROPOSED WATER MAIN
- FM — EXISTING FORCE MAIN
- OHV — EXISTING OVERHEAD WIRE
- BT — EXISTING BURIED TELEPHONE
- FOC — EXISTING BURIED FIBER OPTIC
- EC — EXISTING BURIED ELECTRIC
- - - RIGHT-OF-WAY
- - - EASEMENT

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
UTILITY ADJUSTMENT STA 20+50
TO 23+30



Project Number: 215613796
File Name: 13796-TITLE BLOCK

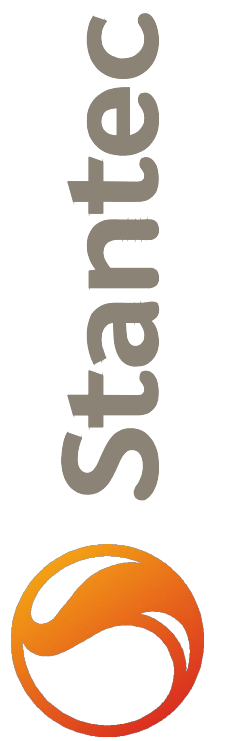
JG	CS	AM	20.01.06
Dwn.	Chkd.	Dsgn.	YY/MM/DD

Drawing No. C-301
Revision Sheet
0 of

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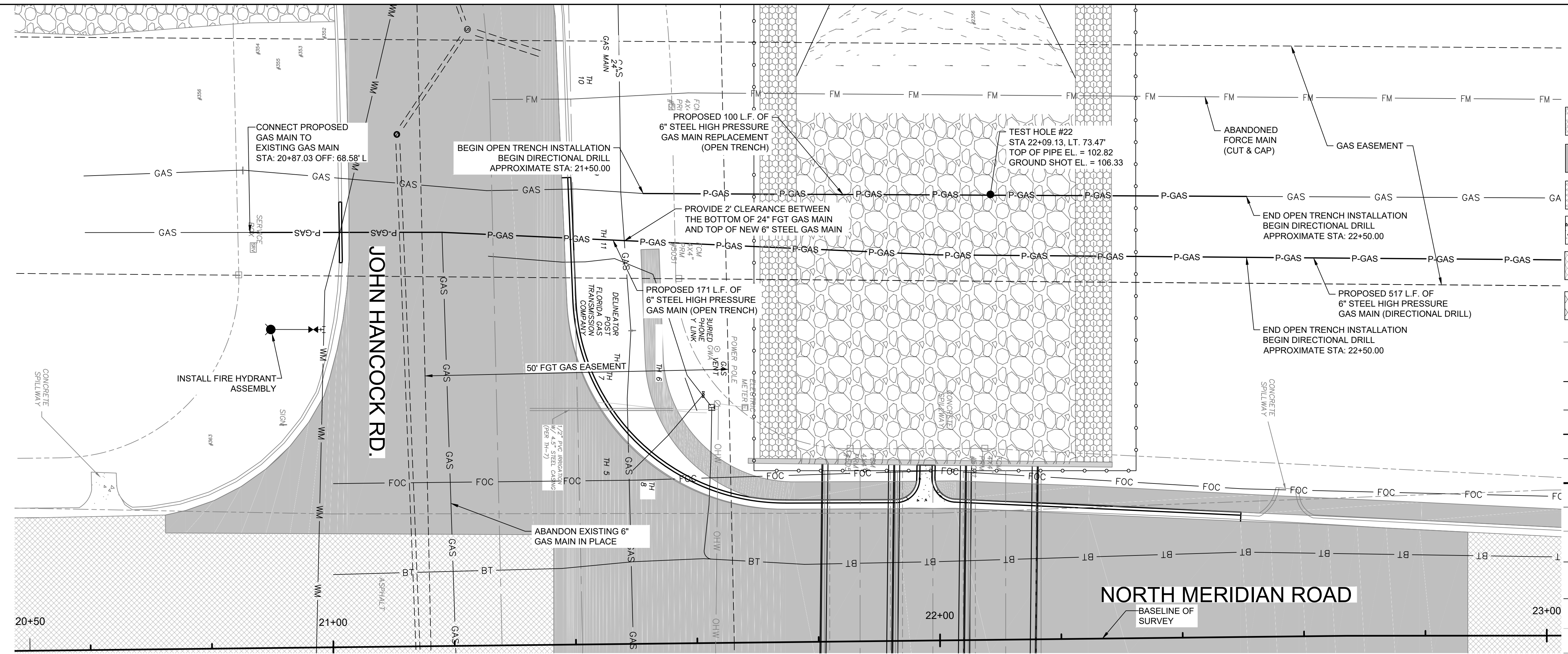
ORIGINAL SHEET - ANSI D

NOTE:
NOTF: CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER TO PROVIDE CONTINUOUS SANITARY SEWER SERVICE.



2315 Killearn Center Blvd., Suite 102
Tallahassee, FL 32309
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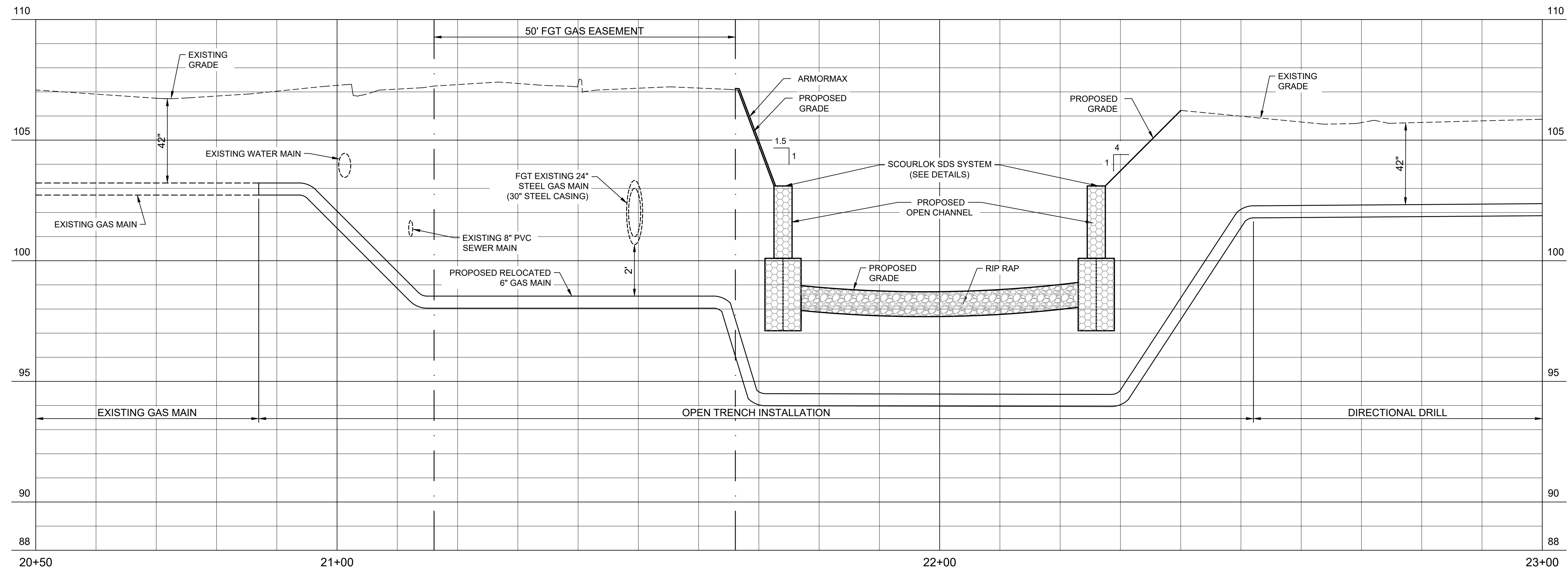
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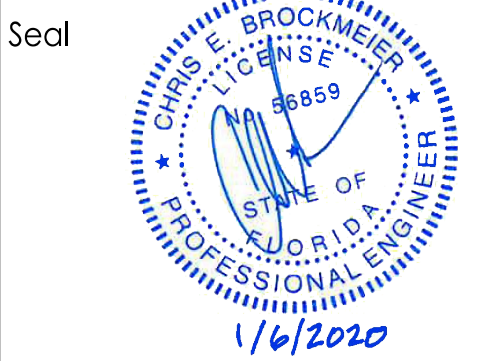
LEGEND

- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- EXISTING GRADE CONTOUR LINE
- PROPOSED GRADE CONTOUR LINE
- EXISTING GAS MAIN
- PROPOSED GAS MAIN
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING FORCE MAIN
- EXISTING OVERHEAD WIRE
- EXISTING BURIED TELEPHONE
- EXISTING BURIED FIBER OPTIC
- EXISTING BURIED ELECTRIC
- RIGHT-OF-WAY
- EASEMENT

Revision	By	App'd.	Yr./MM/DD



Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
UTILITY ADJUSTMENT STA 20+50
TO 23+00

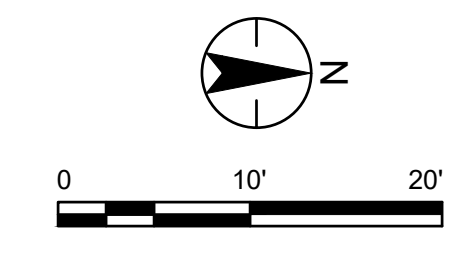
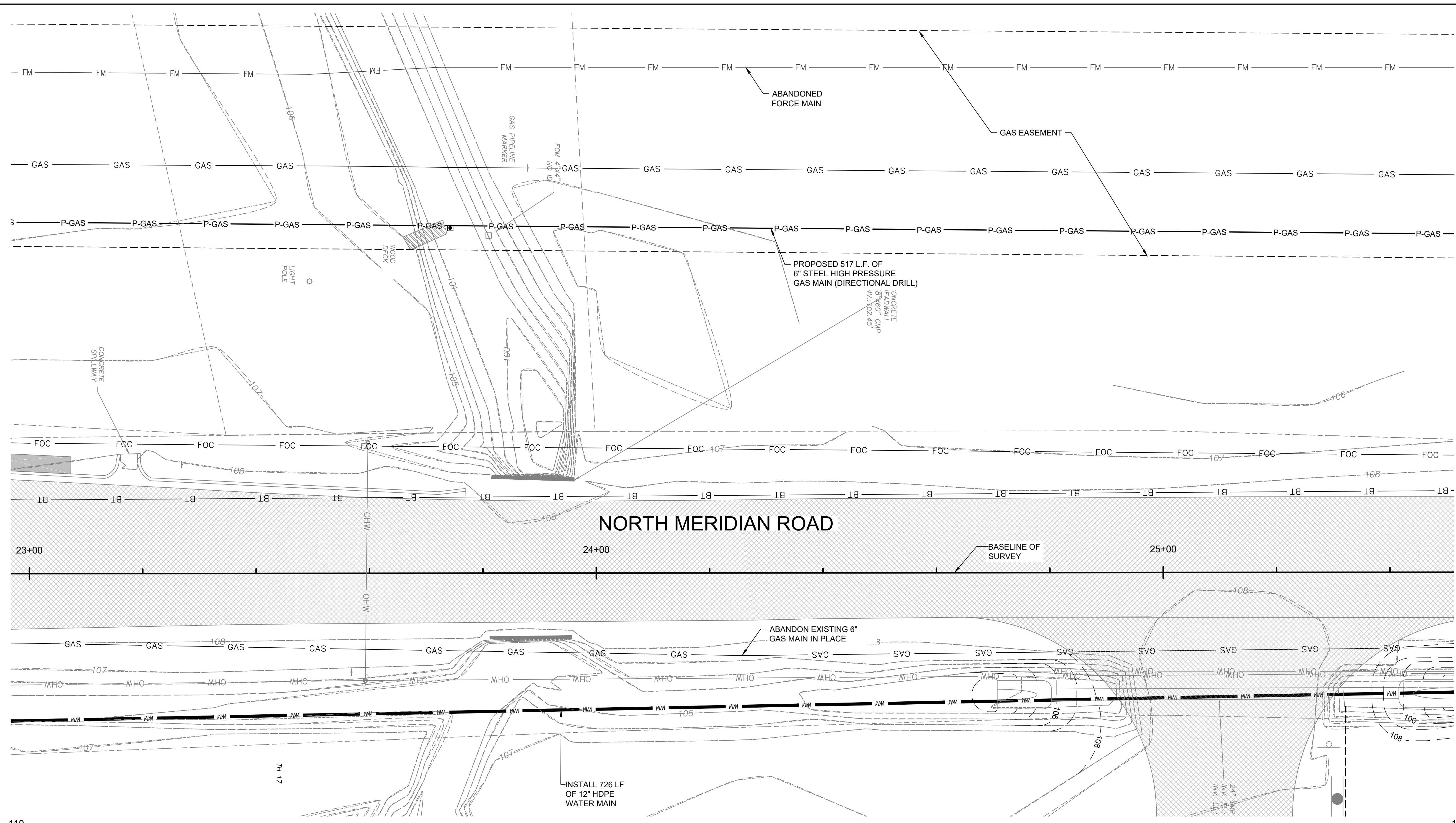


Project Number: 215613796
File Name: 13796-TITLE BLOCK

JG	CB	AM	20.01.06
Dwn.	Chk'd.	Dsgn.	Yr./MM/DD

Drawing No. C-302
Revision Sheet

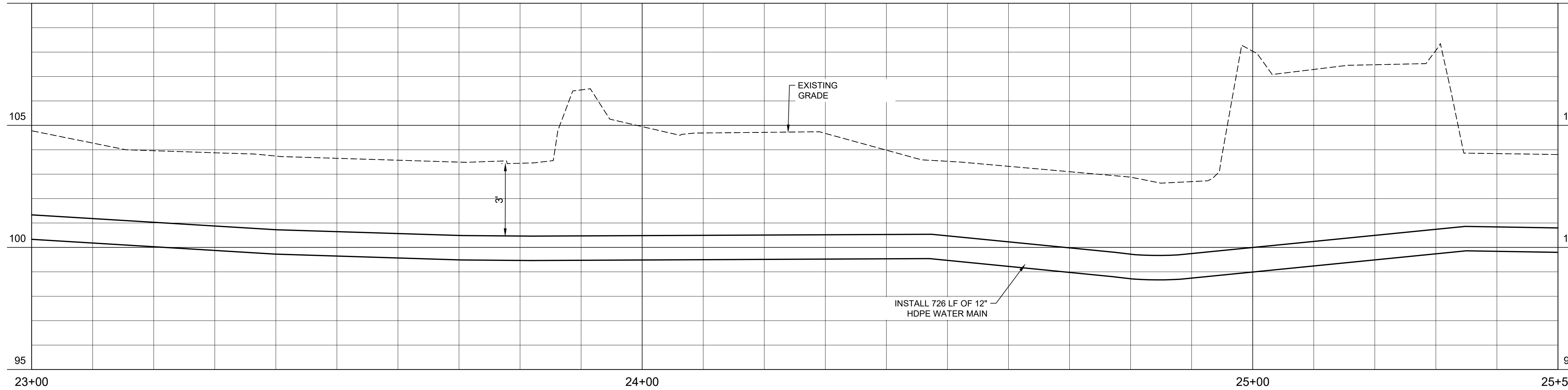
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LEGEND

- PROPOSED ROCK RUBBLE RIP-RAP
- PROPOSED ASPHALT PAVING
- EXISTING ASPHALT PAVING
- PROPOSED CONCRETE PAVING
- SCOURLOK SYSTEM RETAINING WALLS
- GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
- 100- EXISTING GRADE CONTOUR LINE
- 100 PROPOSED GRADE CONTOUR LINE
- GAS EXISTING GAS MAIN
- P-GAS PROPOSED GAS MAIN
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- FM EXISTING FORCE MAIN
- OHV EXISTING OVERHEAD WIRE
- BT EXISTING BURIED TELEPHONE
- FOC EXISTING BURIED FIBER OPTIC
- BE EXISTING BURIED ELECTRIC
- RIGHT-OF-WAY
- - - - - EASEMENT

NOTE:
 CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER TO PROVIDE CONTINUOUS SANITARY SEWER SERVICE.



Revision	By	Appd.	Y.M.M.D.D

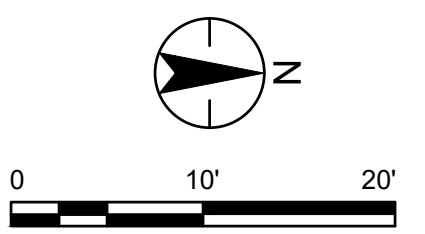
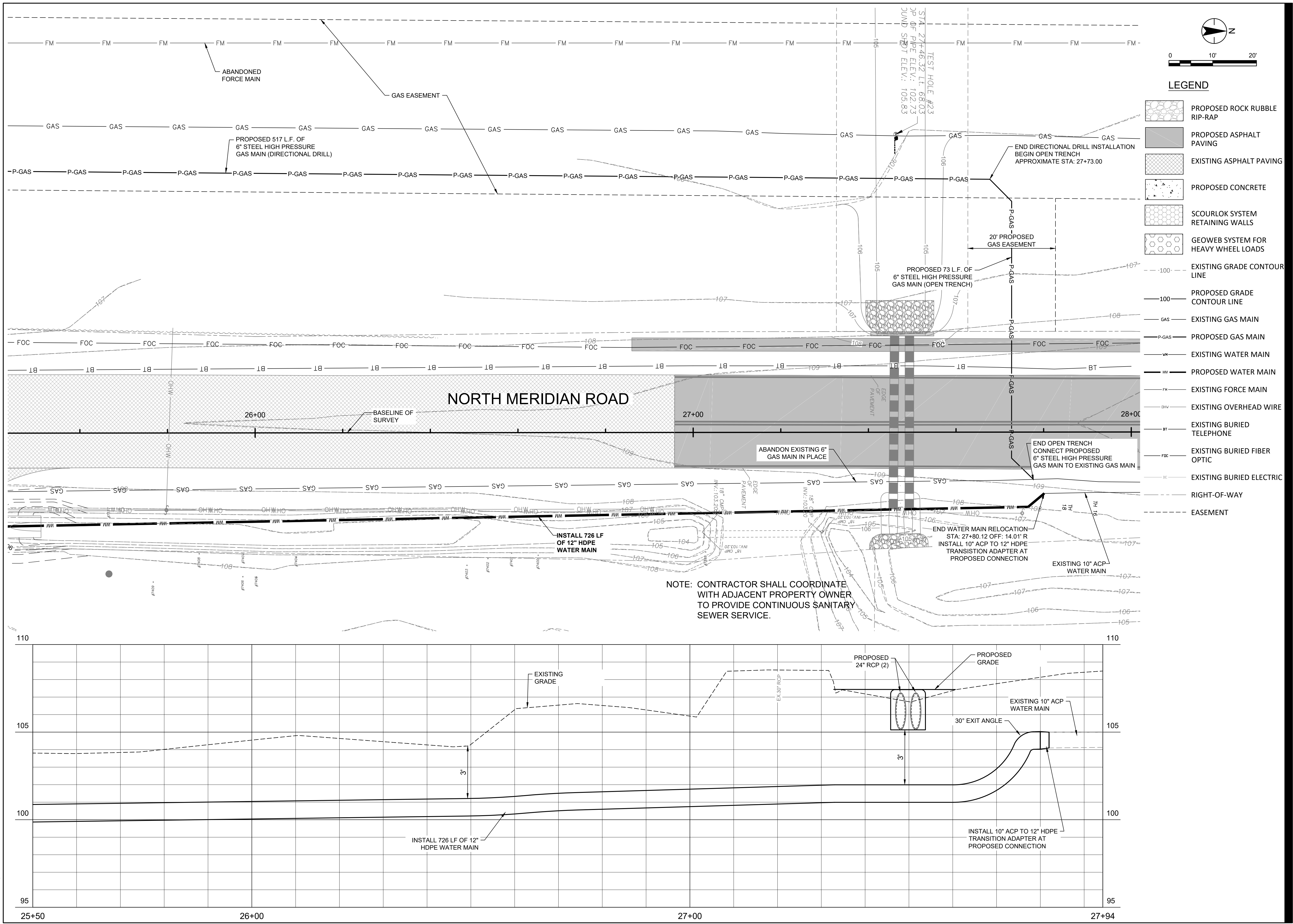
Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
 UTILITY ADJUSTMENT STA 23+30
 TO 25+50

Seal

 Project Number: 215613796
 File Name: 13796-TITLE BLOCK
 JG C8 AM 20.01.06
 Dwn Chk'd Dsgn Y.M.M.D.D
 Drawing No. **C-303**
 Revision Sheet
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 ORIGINAL SHEET - ANSI D



- LEGEND**
- PROPOSED ROCK RUBBLE RIP-RAP
 - PROPOSED ASPHALT PAVING
 - EXISTING ASPHALT PAVING
 - PROPOSED CONCRETE
 - SCOURLOK SYSTEM RETAINING WALLS
 - GEOWEB SYSTEM FOR HEAVY WHEEL LOADS
 - 100- EXISTING GRADE CONTOUR LINE
 - 100- PROPOSED GRADE CONTOUR LINE
 - GAS- EXISTING GAS MAIN
 - P-GAS- PROPOSED GAS MAIN
 - WM- EXISTING WATER MAIN
 - P-WM- PROPOSED WATER MAIN
 - FM- EXISTING FORCE MAIN
 - OHV- EXISTING OVERHEAD WIRE
 - BT- EXISTING BURIED TELEPHONE
 - FOC- EXISTING BURIED FIBER OPTIC
 - E- EXISTING BURIED ELECTRIC
 - R/W- RIGHT-OF-WAY
 - E- EASEMENT

NOTE: CONTRACTOR SHALL COORDINATE WITH ADJACENT PROPERTY OWNER TO PROVIDE CONTINUOUS SANITARY SEWER SERVICE.

Revision	By	Appd.	Y/M/D	Issued

Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
 UTILITY ADJUSTMENT STA 25+50
 TO 27+94

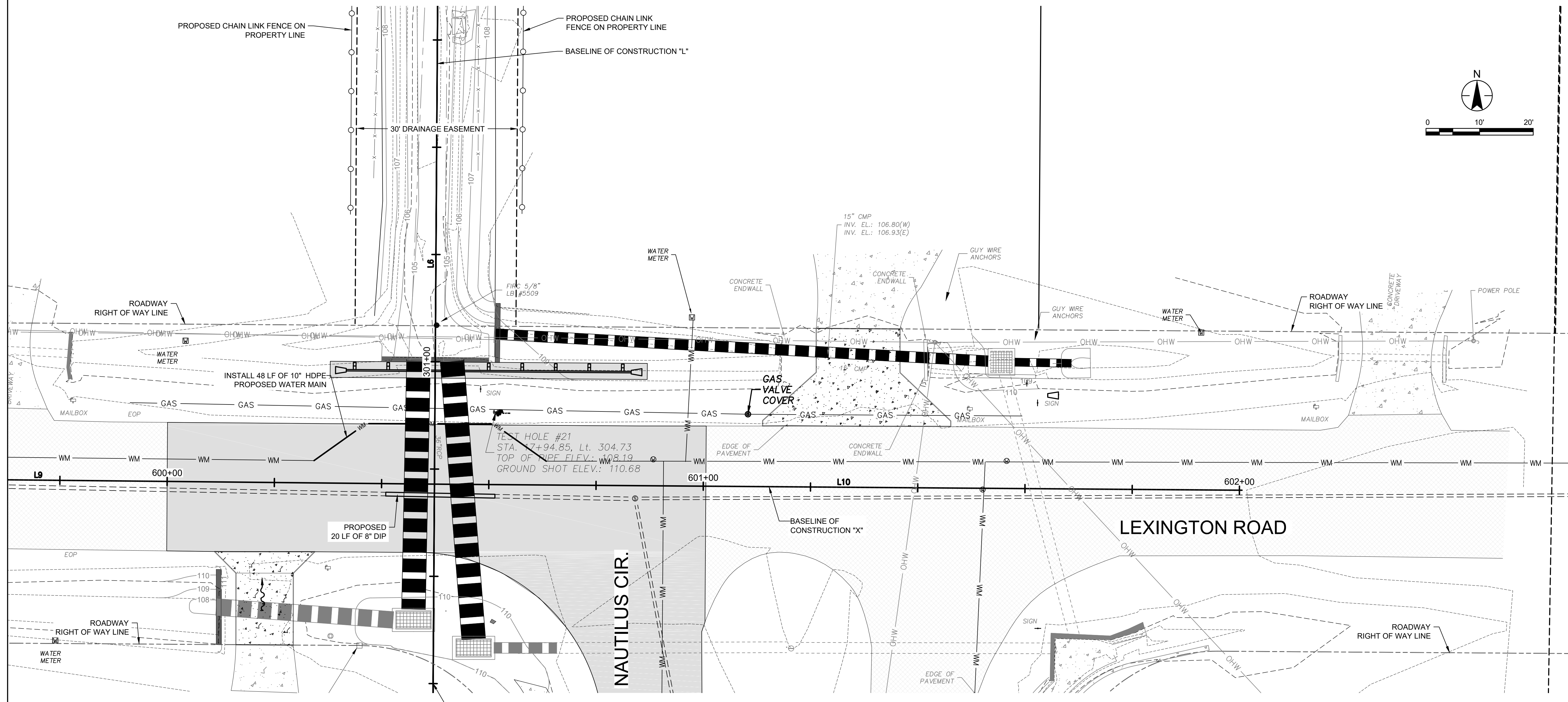
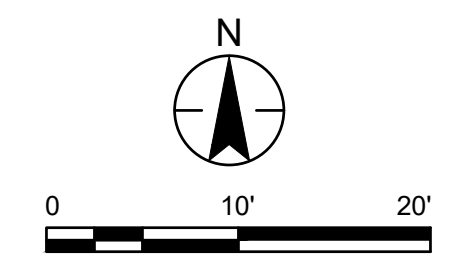
Seal

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Project Number: 215613796
 File Name: 13796-TITLE BLOCK

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Drawing No. **C-304**
Revision Sheet of



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			YY/MM/DD

LEGEND			
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[Pattern]	PROPOSED ASPHALT PAVING	[Line]	PROPOSED GRADE CONTOUR LINE
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[Pattern]	SCOURLOK SYSTEM RETAINING WALLS	[Line]	EXISTING WATER MAIN
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[Line]		[Line]	EXISTING OVERHEAD WIRE
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[Line]		[Line]	EXISTING BURIED FIBER OPTIC
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[Line]		[Line]	RIGHT-OF-WAY
[Line]		[Line]	EASEMENT

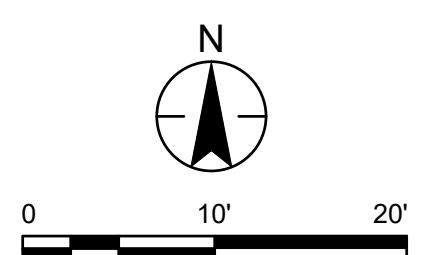
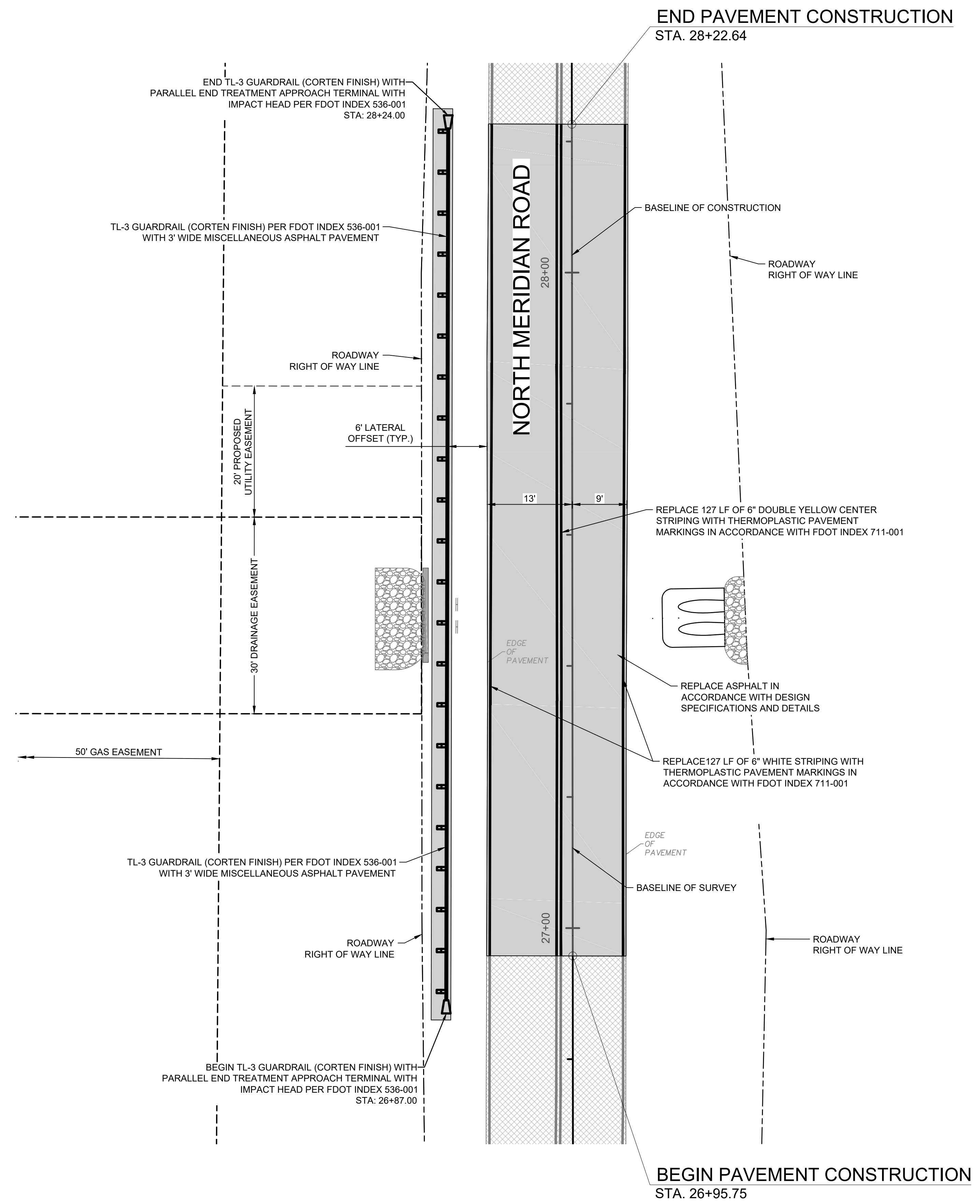
Client/Project
 LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
 UTILITY ADJUSTMENT LEXINGTON ROAD

Seal

 Project Number: 215613796
 File Name: 13796-TITLE BLOCK

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Dwn.	Chk'd.	Dsgn.	YY/MM/DD

Drawing No. **C-305**
 Revision Sheet
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NOTES:

1. AT LOCATIONS WHERE THE PROJECT CONSTRUCTION OPERATIONS ARE WITHIN THE AREA OF INFLUENCE OF A UTILITY, THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE THE EXISTING UTILITY DURING GUARDRAIL INSTALLATION ACTIVITIES.
2. FOR ANY GUARDRAIL POST LOCATED WITHIN A UTILITY EASEMENT NORTH/EAST/WEST/ OR SOUTH SIDE OF N. MERIDIAN ROAD DRAINAGE IMPROVEMENTS THE CONTRACTOR SHALL INSTALL GUARDRAIL USING A STATIC-MANUAL OR SIMILAR EQUIPMENT THAT WILL NOT USE VIBRATION OR IMPACT AS A MEANS OF FOR THE ROADSIDE BARRIER POST INSTALLATION METHOD.
3. DAMAGES SUFFERED TO THE EXISTING GAS MAIN, SCHEDULE DELAYS, AND ADDITIONAL COSTS INCURRED BY THE CONTRACTOR, AS A RESULT OF THE FAILURE TO CONFORM TO THE REQUIREMENTS OF THIS SECTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. GUARDRAIL SHALL HAVE A 3' WIDE MISCELLANEOUS ASPHALT PAVEMENT, SEE FDOT GUARDRAIL DETAILS.

LEGEND

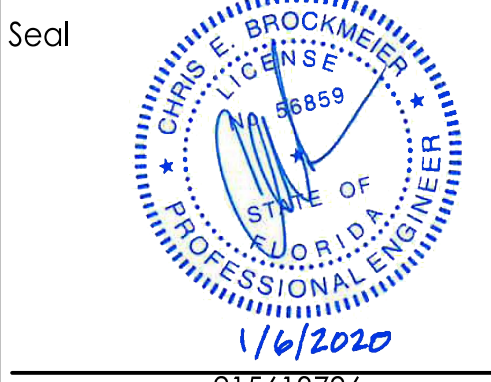
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|--|-------------------------------------|--|--------------|
| | PROPOSED ROCK RUBBLE RIP-RAP | | RIGHT-OF-WAY |
| | PROPOSED ASPHALT PAVING | | EASEMENTS |
| | EXISTING ASPHALT PAVING | | |
| | PROPOSED CONCRETE PAVING | | |
| | SCOURLOK SYSTEM RETAINING WALLS | | |
| | GEOWEB SYSTEM FOR HEAVY WHEEL LOADS | | |

Revision	By	Appd.	Y/M/DD

Issued	By	Appd.	Y/M/DD

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Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
NORTH MERIDIAN ROAD
PAVEMENT MARKING AND
GUARDRAIL PLAN

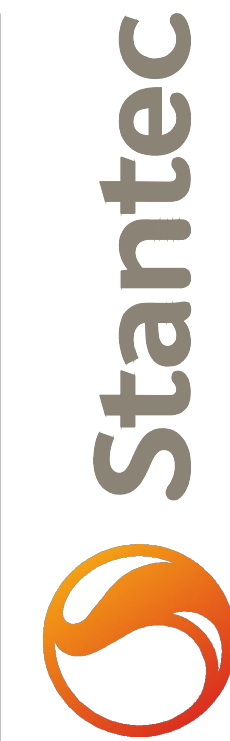


Project Number: 215613796
File Name: 13796-TITLE BLOCK

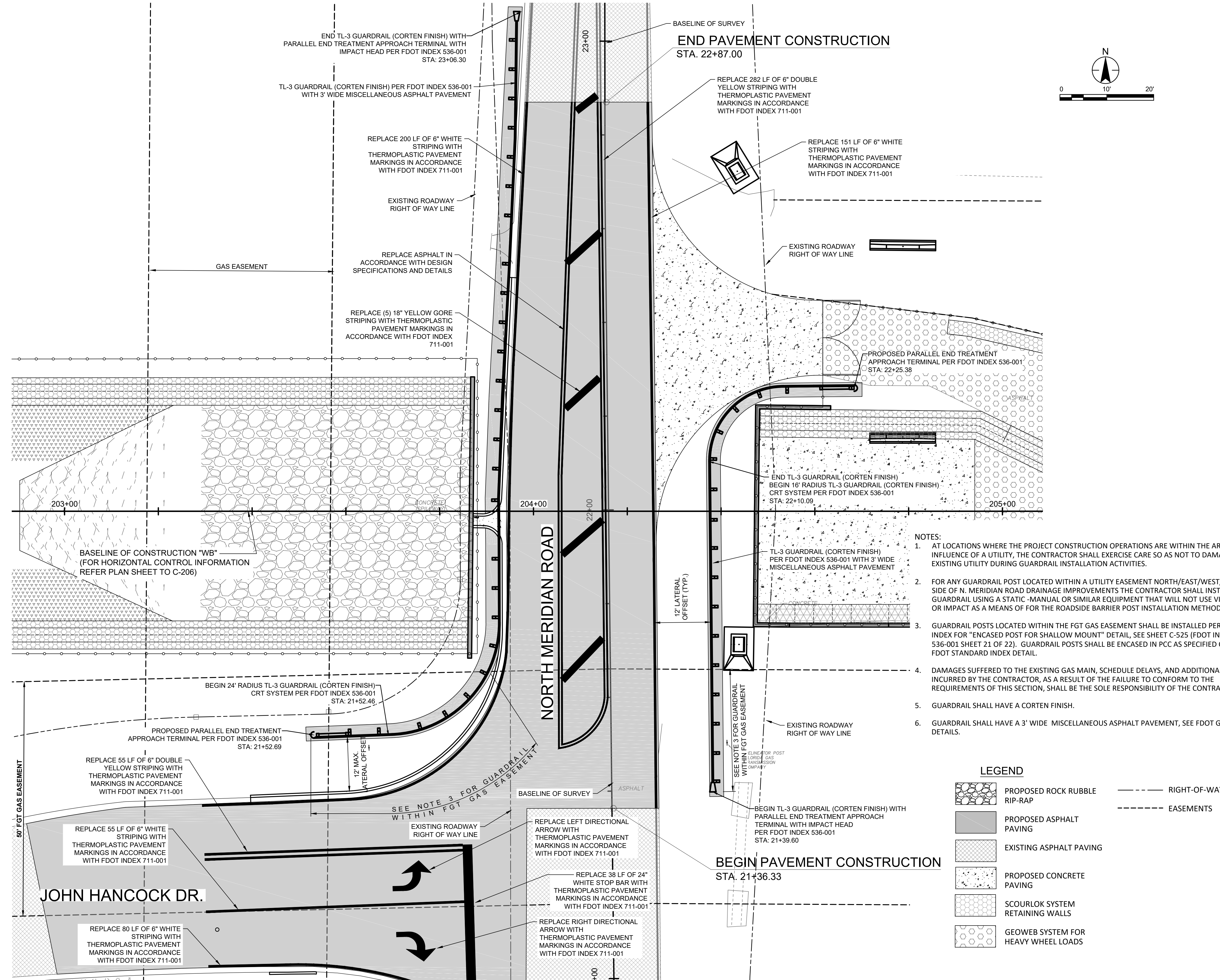
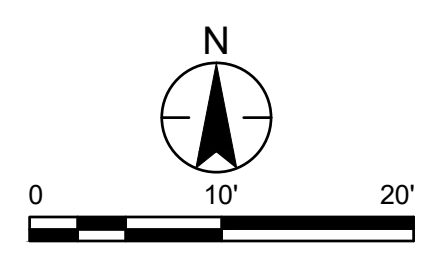
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Dwn.	Chk'd.	Dsgn.	Y/M/M/DD

Drawing No. **C-401**

Revision Sheet
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- NOTES:
1. AT LOCATIONS WHERE THE PROJECT CONSTRUCTION OPERATIONS ARE WITHIN THE AREA OF INFLUENCE OF A UTILITY, THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE THE EXISTING UTILITY DURING GUARDRAIL INSTALLATION ACTIVITIES.
 2. FOR ANY GUARDRAIL POST LOCATED WITHIN A UTILITY EASEMENT NORTH/EAST/WEST/ OR SOUTH SIDE OF N. MERIDIAN ROAD DRAINAGE IMPROVEMENTS THE CONTRACTOR SHALL INSTALL GUARDRAIL USING A STATIC-MANUAL OR SIMILAR EQUIPMENT THAT WILL NOT USE VIBRATION OR IMPACT AS A MEANS OF FOR THE ROADSIDE BARRIER POST INSTALLATION METHOD.
 3. GUARDRAIL POSTS LOCATED WITHIN THE FGT GAS EASEMENT SHALL BE INSTALLED PER FDOT INDEX FOR "ENCASED POST FOR SHALLOW MOUNT" DETAIL, SEE SHEET C-525 (FDOT INDEX 536-001 SHEET 21 OF 22). GUARDRAIL POSTS SHALL BE ENCASED IN PCC AS SPECIFIED ON THE FDOT STANDARD INDEX DETAIL.
 4. DAMAGES SUFFERED TO THE EXISTING GAS MAIN, SCHEDULE DELAYS, AND ADDITIONAL COSTS INCURRED BY THE CONTRACTOR, AS A RESULT OF THE FAILURE TO CONFORM TO THE REQUIREMENTS OF THIS SECTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 5. GUARDRAIL SHALL HAVE A CORTEN FINISH.
 6. GUARDRAIL SHALL HAVE A 3' WIDE MISCELLANEOUS ASPHALT PAVEMENT, SEE FDOT GUARDRAIL DETAILS.

LEGEND

	PROPOSED ROCK RUBBLE RIP-RAP		RIGHT-OF-WAY
	PROPOSED ASPHALT PAVING		EASEMENTS
	EXISTING ASPHALT PAVING		
	PROPOSED CONCRETE PAVING		
	SCOURLOK SYSTEM RETAINING WALLS		
	GEOWEB SYSTEM FOR HEAVY WHEEL LOADS		

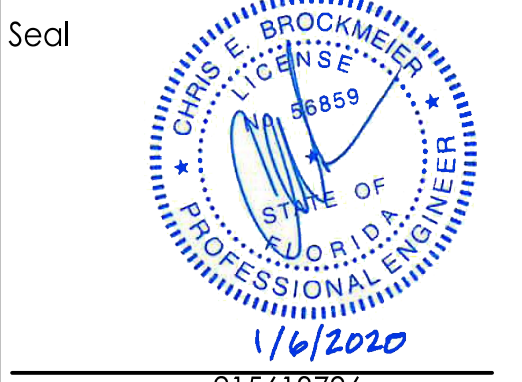
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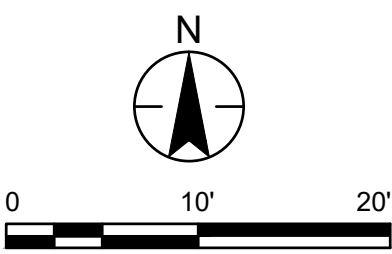
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Issued	By	App'd.	Y/M/MD

Client/Project:
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
SOUTH MERIDIAN ROAD
PAVEMENT MARKING AND
GUARDRAIL PLAN



Project Number:	215613796			
File Name:	13796-TITLE BLOCK			
Dwn:	JG	C8	AM	20.01.06
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Drawing No.:	C-402	Revision	Sheet	
0	of			



BEGIN PAVEMENT CONSTRUCTION
STA. 600+00.00

END PAVEMENT CONSTRUCTION
STA. 601+00.48

LEXINGTON ROAD

NAUTILUS CIRCLE

NAUTILUS CIRCLE

- NOTES:**
- AT LOCATIONS WHERE THE PROJECT CONSTRUCTION OPERATIONS ARE WITHIN THE AREA OF INFLUENCE OF A UTILITY, THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE THE EXISTING UTILITY DURING GUARDRAIL INSTALLATION ACTIVITIES.
 - DAMAGES SUFFERED TO ADJACENT EXISTING UTILITIES OR OBJECTS, SCHEDULE DELAYS, AND ADDITIONAL COSTS INCURRED BY THE CONTRACTOR, AS A RESULT OF THE FAILURE TO PROTECT EXISTING TOPOGRAPHY TO REMAIN IN PLACE, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - GUARDRAIL SHALL HAVE A CORTEN FINISH.
 - GUARDRAIL SHALL HAVE A 3' WIDE MISCELLANEOUS ASPHALT PAVEMENT, SEE FDOT GUARDRAIL DETAILS.
 - FOR LEXINGTON ROAD BENCHMARK INFORMATION REFER TO SURVEY SHEET V107.
 - FOR DRAINAGE CONVEYANCE DITCH BASELINE OF CONSTRUCTION "L" HORIZONTAL CONTROL DATA, REFER TO C-209.

LEGEND

- | | | | |
|--|-------------------------------------|--|--------------|
| | PROPOSED ROCK RUBBLE RIP-RAP | | RIGHT-OF-WAY |
| | PROPOSED ASPHALT PAVING | | EASEMENTS |
| | EXISTING ASPHALT PAVING | | |
| | PROPOSED CONCRETE PAVING | | |
| | SCOURLOK SYSTEM RETAINING WALLS | | |
| | GEOWEB SYSTEM FOR HEAVY WHEEL LOADS | | |
| | EXISTING CONCRETE PAVING | | |

Revision	By	Appd.	YY.MM.DD

Issued	By	Appd.	YY.MM.DD

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
LEXINGTON ROAD
PAVEMENT MARKING AND
GUARDRAIL PLAN

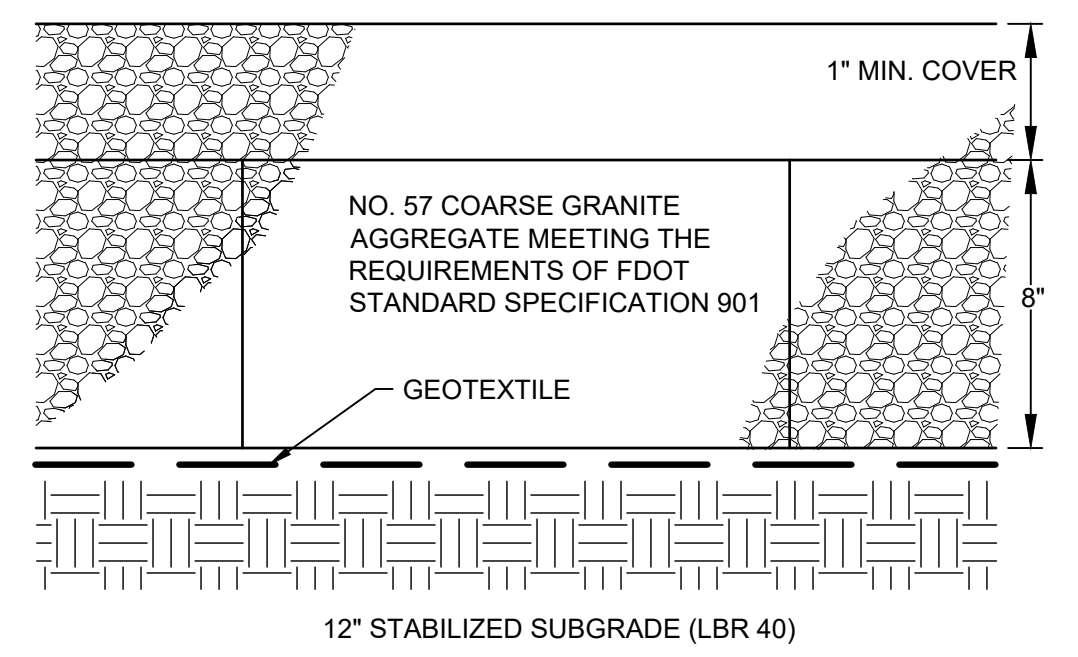
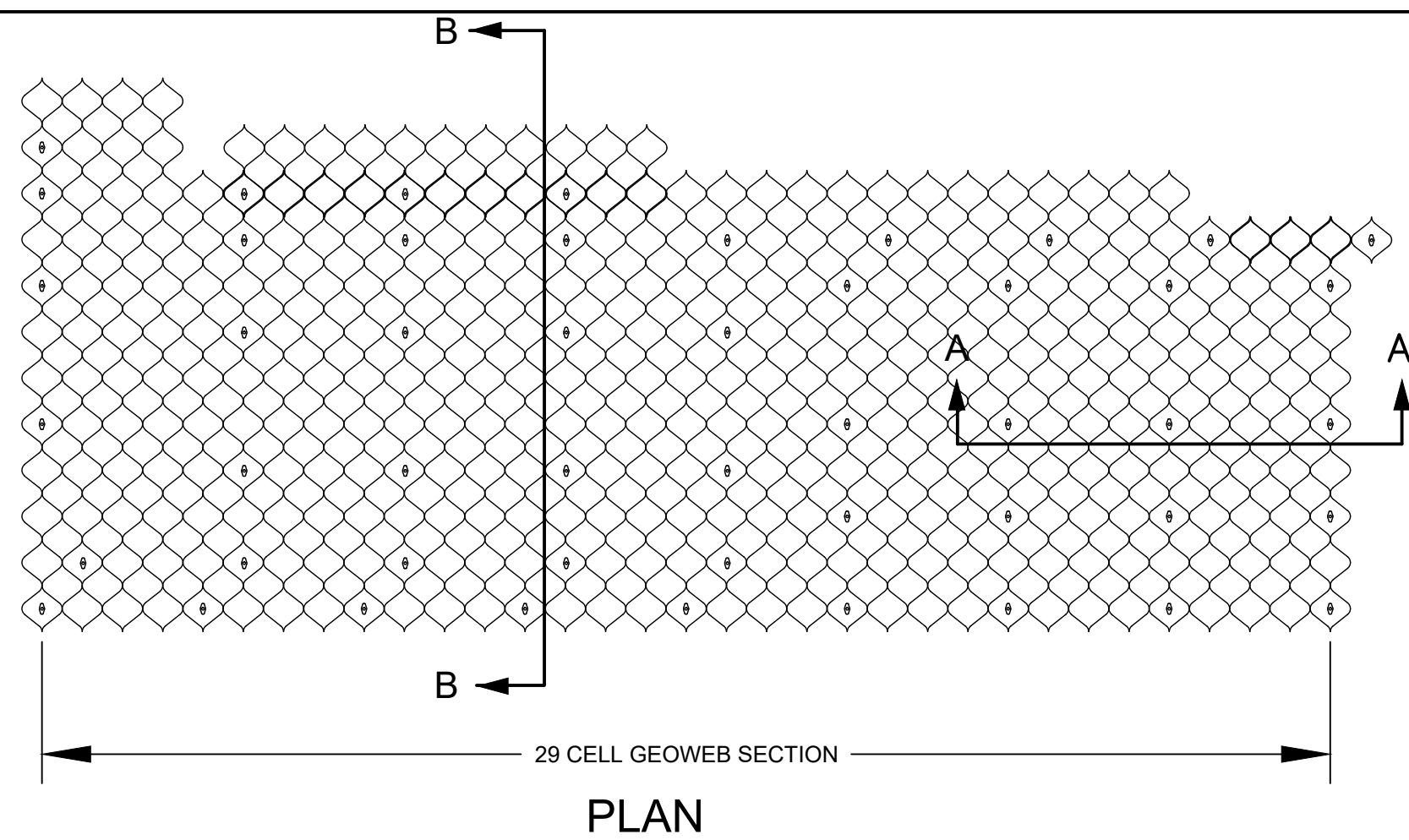


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File Name: 13796-TITLE BLOCK

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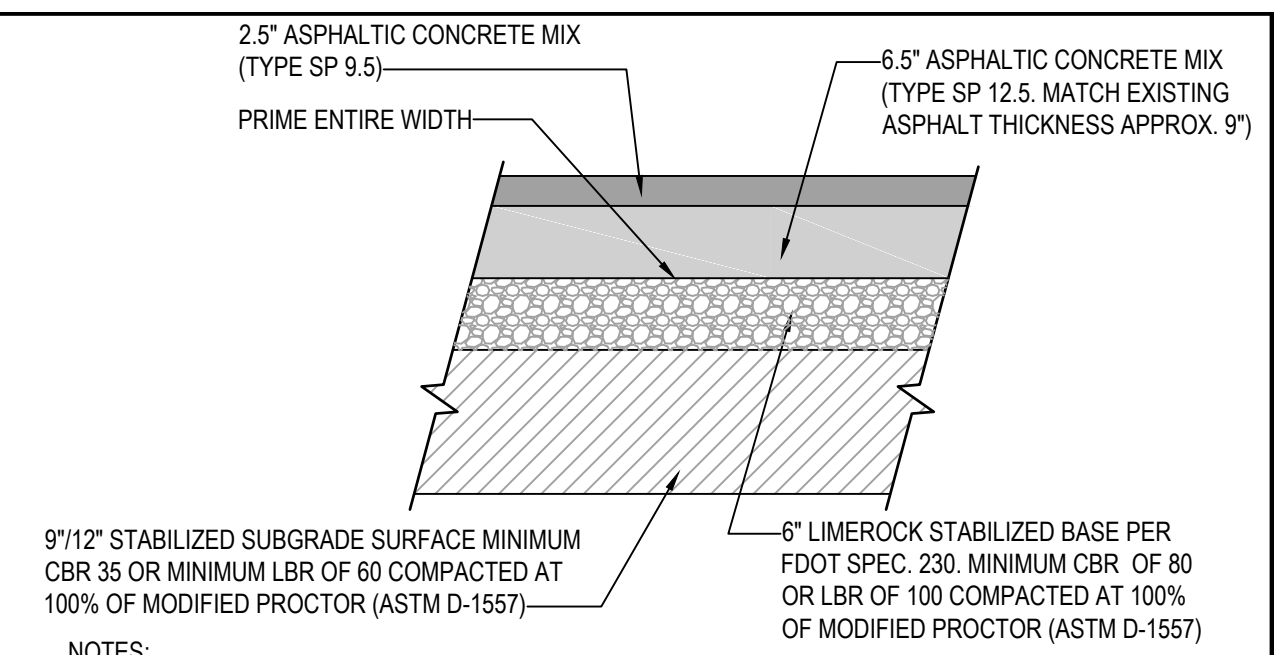
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Revision Sheet

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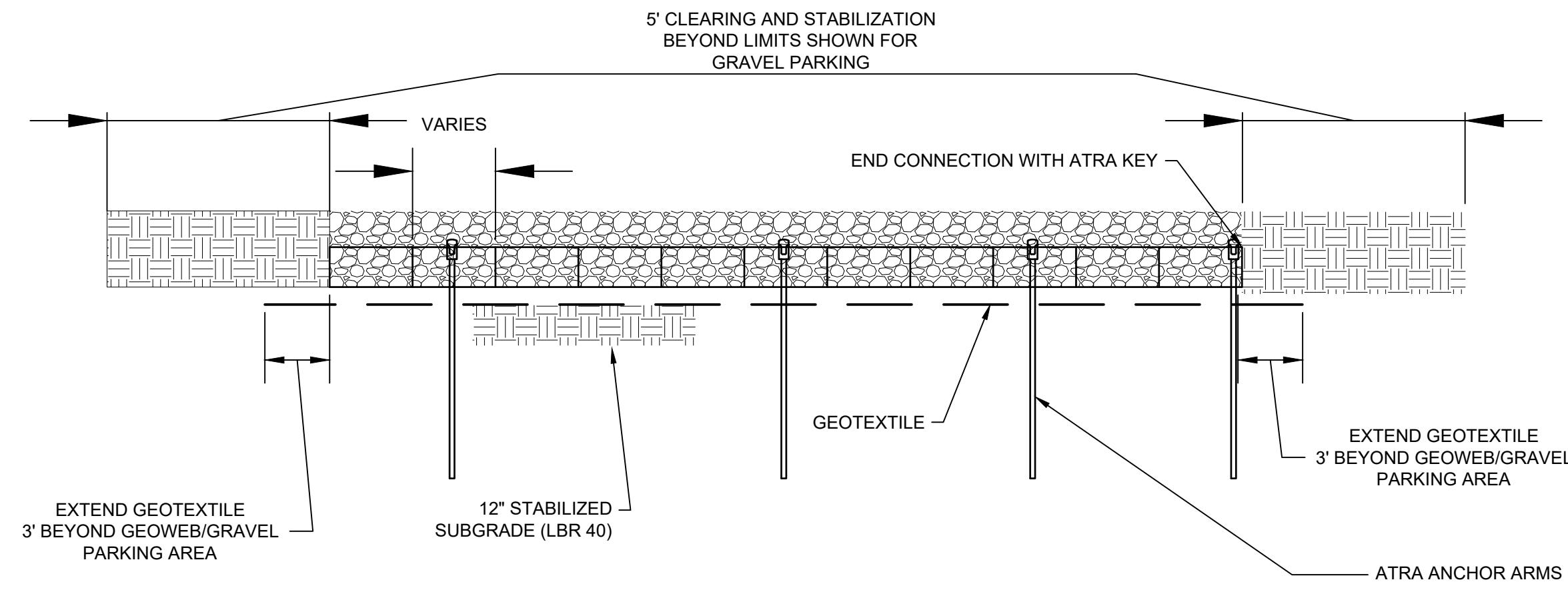
1 GEOWEB SYSTEM FOR HEAVY WHEEL LOADS SECTION
NTS

- NOTES:
1. REMOVE ALL VEGETATION TO AT LEAST FIVE (5) FEET BEYOND THE EXTENT OF THE WORK EFFORT. FINAL GRADE AND SMOOTH THE EXCAVATED SURFACE, REMOVING ALL ROOTS GREATER THAN ONE (1) INCH IN DIAMETER.
 2. PROOF ROLL THE AREA USING A NON-VIBRATING 5-TON ROLLER UNTIL THE SUBGRADE IS FIRM AND UNYIELDING, AS APPROVED BY THE ENGINEER.
 3. PLACE A WOVEN GEOTEXTILE FABRIC (ACF HSP4-4800 lb. OR APPROVED EQUIVALENT) TO THE EXTENT OF THE AREA. OVERLAP MATERIAL AND EDGES BY AT LEAST THREE (3) FEET. PLACE A GEOWEB (PRESTO GW20V 8-INCH OR APPROVED EQUIVALENT) OVER THE GEOTEXTILE AND SECURE THE SECTIONS TOGETHER USING ATRA KEYS IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 4. AFTER THE GEOWEB HAS BEEN PLACED AND SECURED, BACKFILL THE GEOWEB USING A NO. 57 COARSE GRANITE AGGREGATE MEETING THE REQUIREMENTS OF FDOT STANDARD SPECIFICATION 901.
 5. THE COARSE AGGREGATE SHALL EXTEND ABOVE THE GEOWEB A MINIMUM OF ONE (1) INCHES.
 6. WHEN ATRA ANCHORS ARE USED FOR ANCHORAGE, ENSURE ANCHOR BEARS AGAINST CELL WALL AND ARM IS ENGAGED THROUGH THE I-SLOT.
 7. ADDITIONAL GEOTECH INFORMATION CAN BE FOUND IN THE GEOTECHNICAL INVESTIGATION (EGS, JUNE 2018)

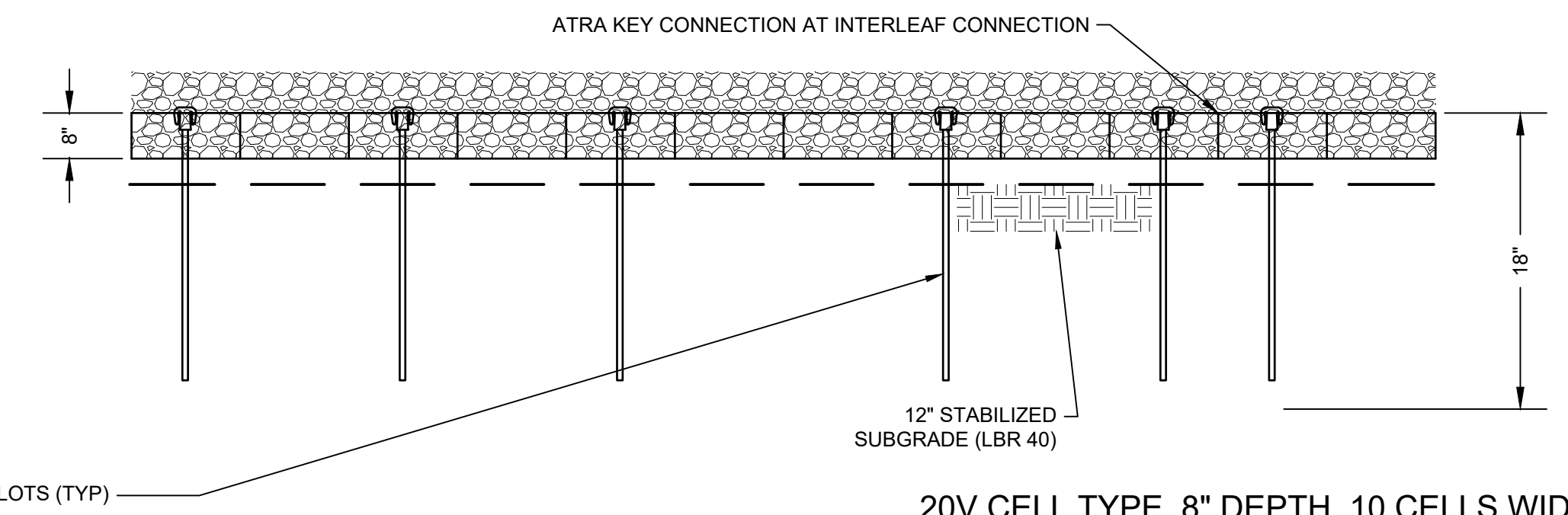


- NOTES:
1. A TACK COAT WILL BE REQUIRED FOR ASPHALT PAVEMENT BETWEEN EXISTING PAVEMENT SURFACES. LAYERS OF LIFT OR HOT MIX ASPHALT OR NEW ASPHALT PLACED AGAINST CURBS, GUTTERS AND CONSTRUCTION JOINTS.
 2. A TACK COAT SHALL BE APPLIED TO THE STABILIZED LIMEROCK BASE.

2 ASPHALT PAVEMENT SECTION FOR MERIDIAN MAINLINE PAVEMENT
NTS



SECTION A-A



SECTION B-B

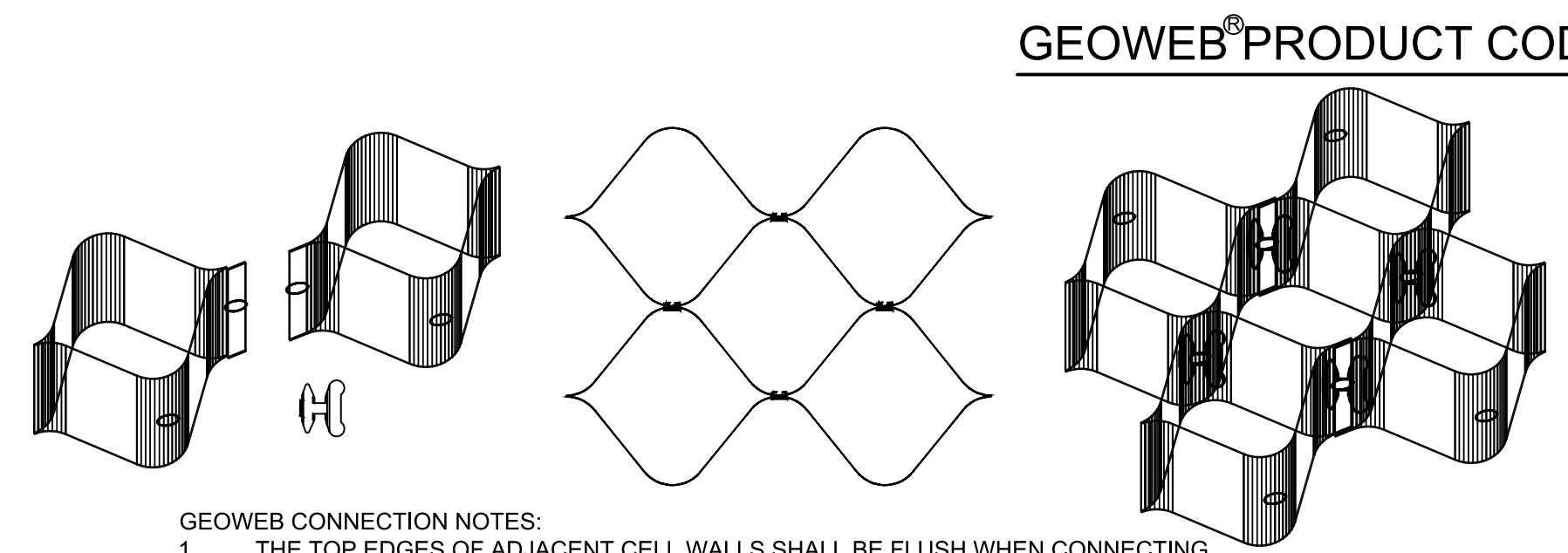
3 TYPICAL ATRA ANCHOR SYSTEM
NTS

CELL WIDTH	CELL LENGTH	NOMINAL CELL AREA IN (CM) ²		CELL EXPANSION RANGE			
		MINIMUM	MAXIMUM	MINIMUM LENGTH IN (CM)	MINIMUM WIDTH IN (CM)	MAXIMUM LENGTH IN (CM)	MAXIMUM WIDTH IN (CM)
20V		44.8 (289)	11.07 (281)	8.02 (204)	9.2 (234)	9.65 (245)	11.07 (281)

4 GEOWEB CELL SIZE (GW 20V)
NOTE: ALL DIMENSIONS ARE NOMINAL AND ARE WITHIN MANUFACTURING TOLERANCES
(OR APPROVED EQUAL, SUBMIT PRODUCT DATA WITH BID SUBMITTAL)

GW20V - 10 CELLS WIDE									
CELLS LONG	MIN EXPANSION LENGTH		MIN EXPANSION WIDTH		MAX EXPANSION LENGTH		MAX EXPANSION WIDTH		NOMINAL AREA ft ² m ²
	ft	m	ft	m	ft	m	ft	m	
18	12.0	3.7	9.2	2.8	14.5	4.4	7.7	2.3	112 10.4
21	14.0	4.3			16.9	5.1			131 12.1
25	16.7	5.1			20.1	6.1			156 14.5
29	19.4	5.9			23.3	7.1			181 16.8
34	22.7	6.9			27.3	8.3			212 19.7

5 GEOWEB SECTION SIZES
NTS

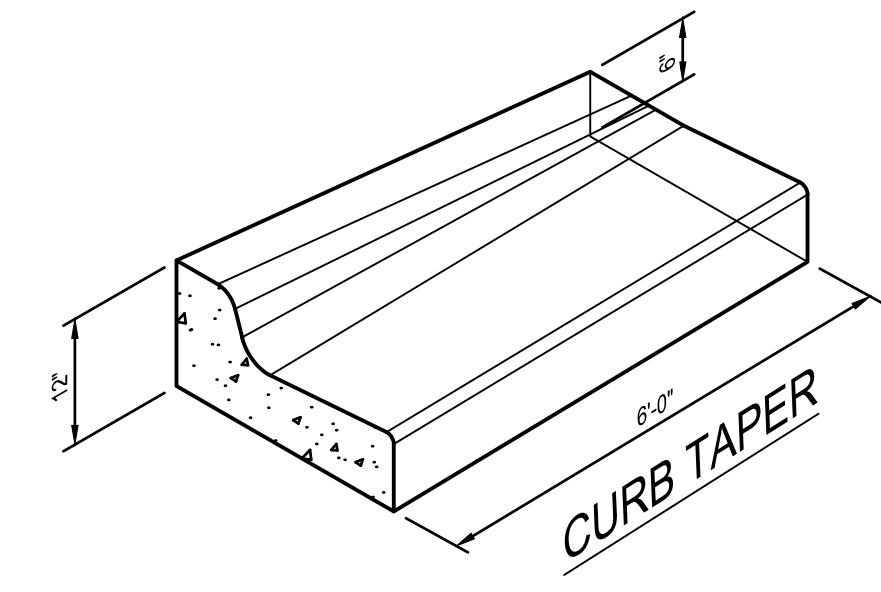


GEOWEB[®] PRODUCT CODE FORMAT

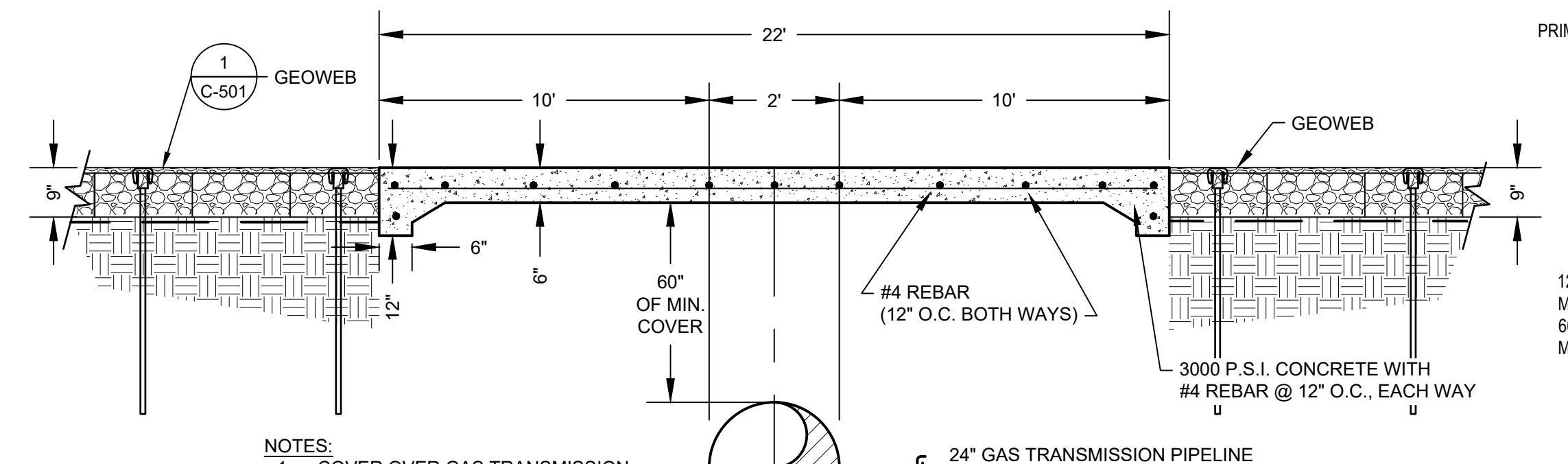
- GEOWEB CONNECTION NOTES:
1. THE TOP EDGES OF ADJACENT CELL WALLS SHALL BE FLUSH WHEN CONNECTING.
 2. ALIGN THE I-SLOTS FOR INTERLEAF AND END TO END CONNECTIONS.
 3. THE GEOWEB PANELS SHALL BE CONNECTED WITH ATRA KEYS AT EACH INTERLEAF AND END TO END CONNECTION.

6 ATRA KEY CONNECTION DETAILS
NTS

7 ATRA ANCHOR DETAIL
NTS

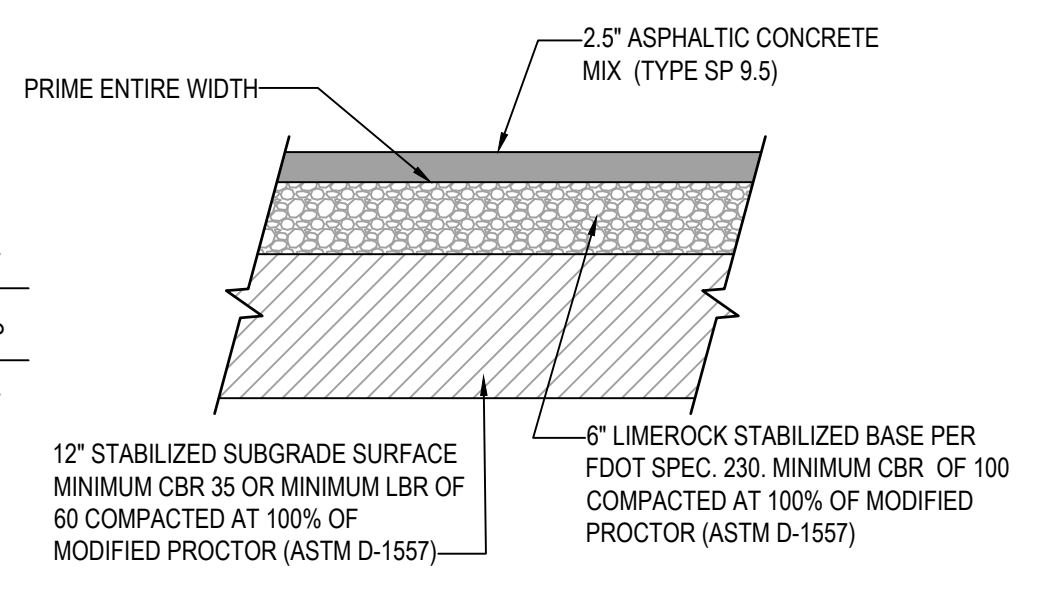


8 CONCRETE CURB TAPER
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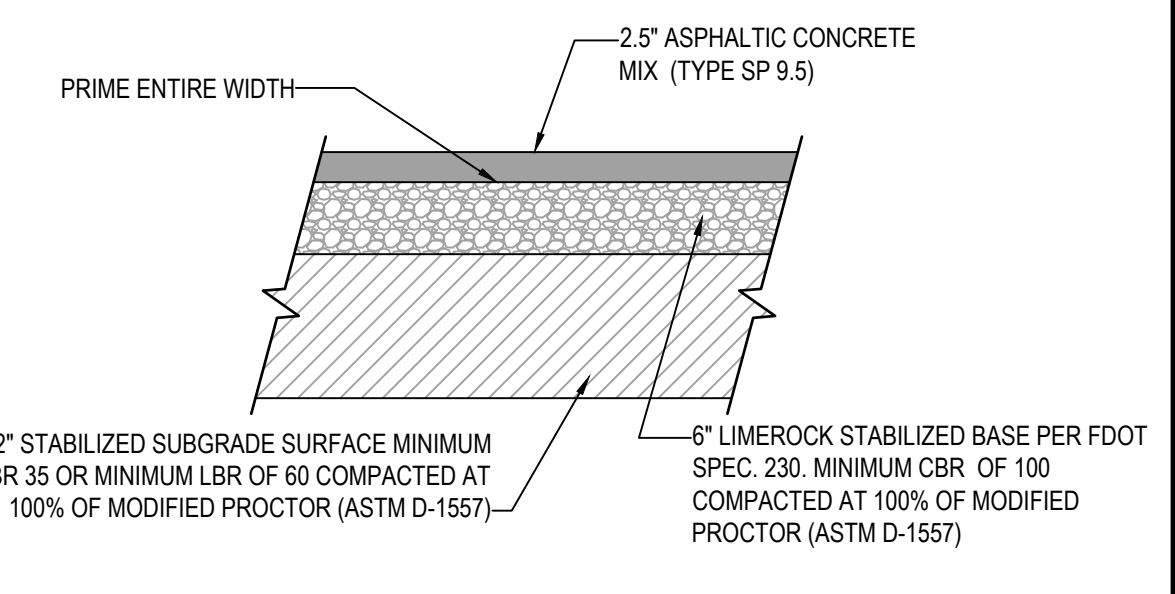


- NOTES:
1. COVER OVER GAS TRANSMISSION LINE SHALL NOT BE REDUCED.

9 MAINTENANCE CONCRETE ACCESS APPROACH DETAIL
NTS



10 ASPHALT PAVEMENT SECTION FOR LEXINGTON ROAD
NTS



11 ASPHALT PAVEMENT SECTION FOR JOHN HANCOCK DRIVE
NTS

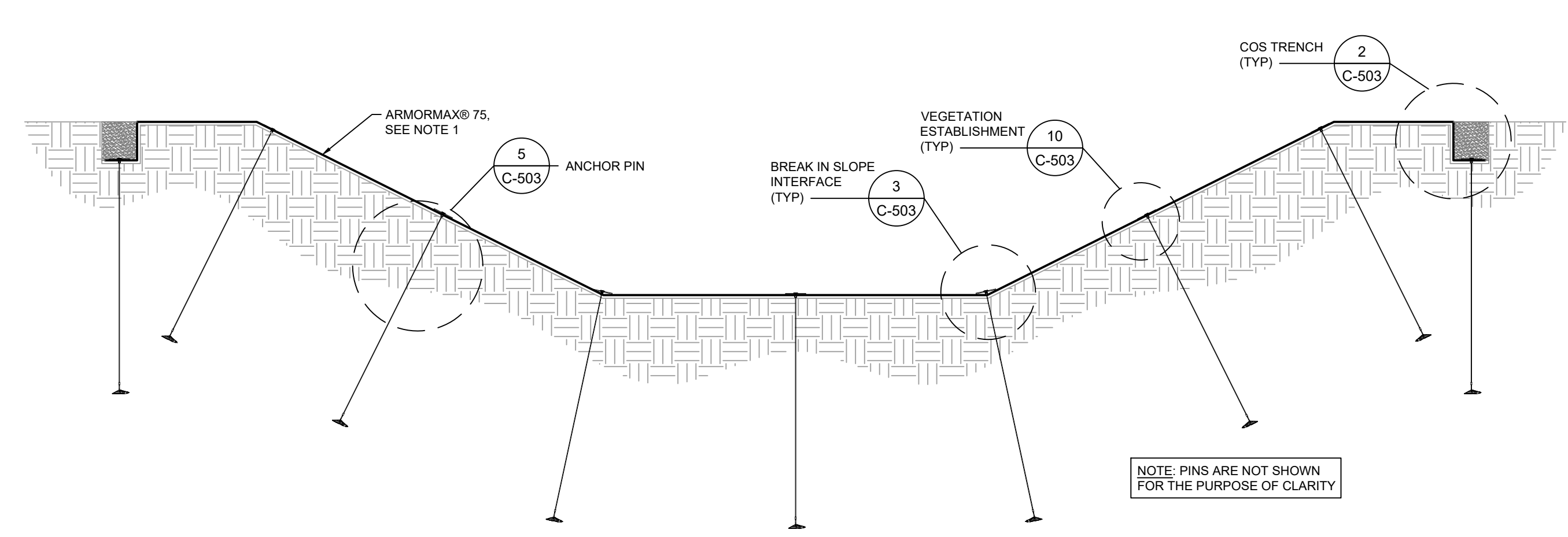
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Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
CIVIL DETAILS

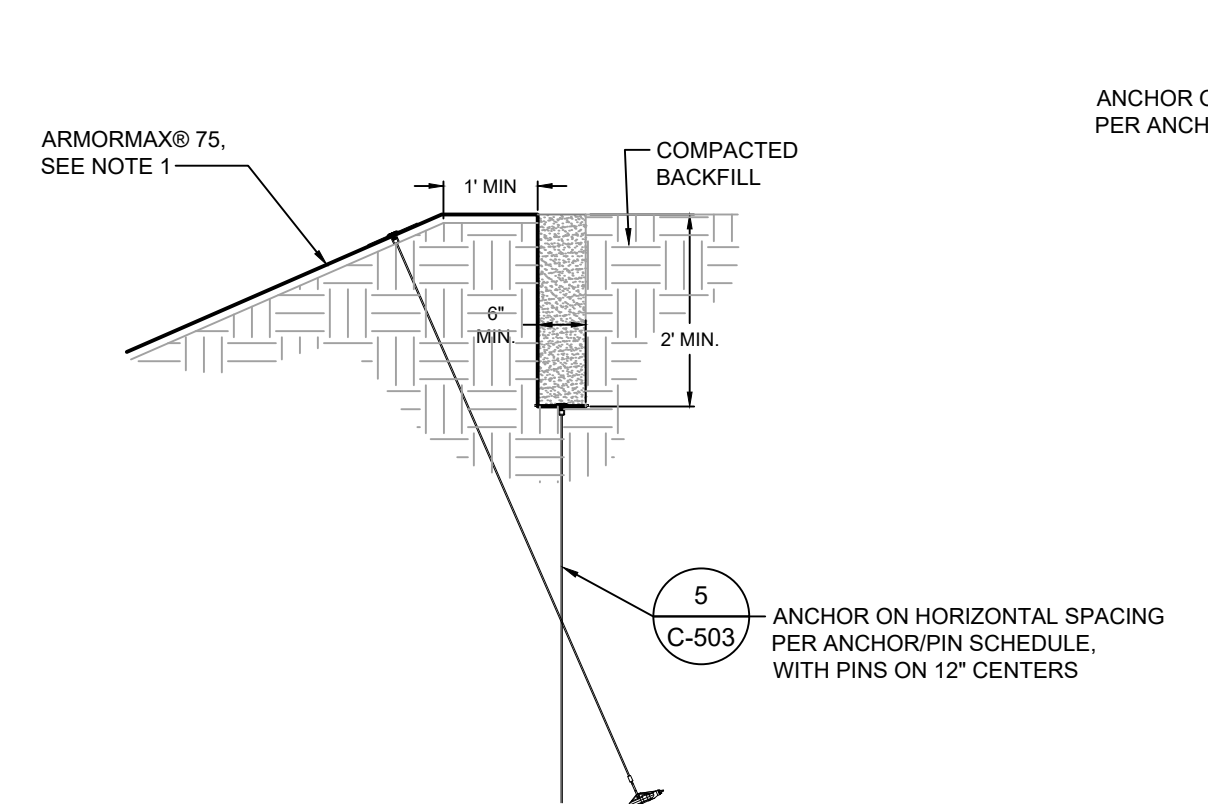


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JG	CB	AM	20.01.06
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Drawing No.	C-501	Revision	Sheet

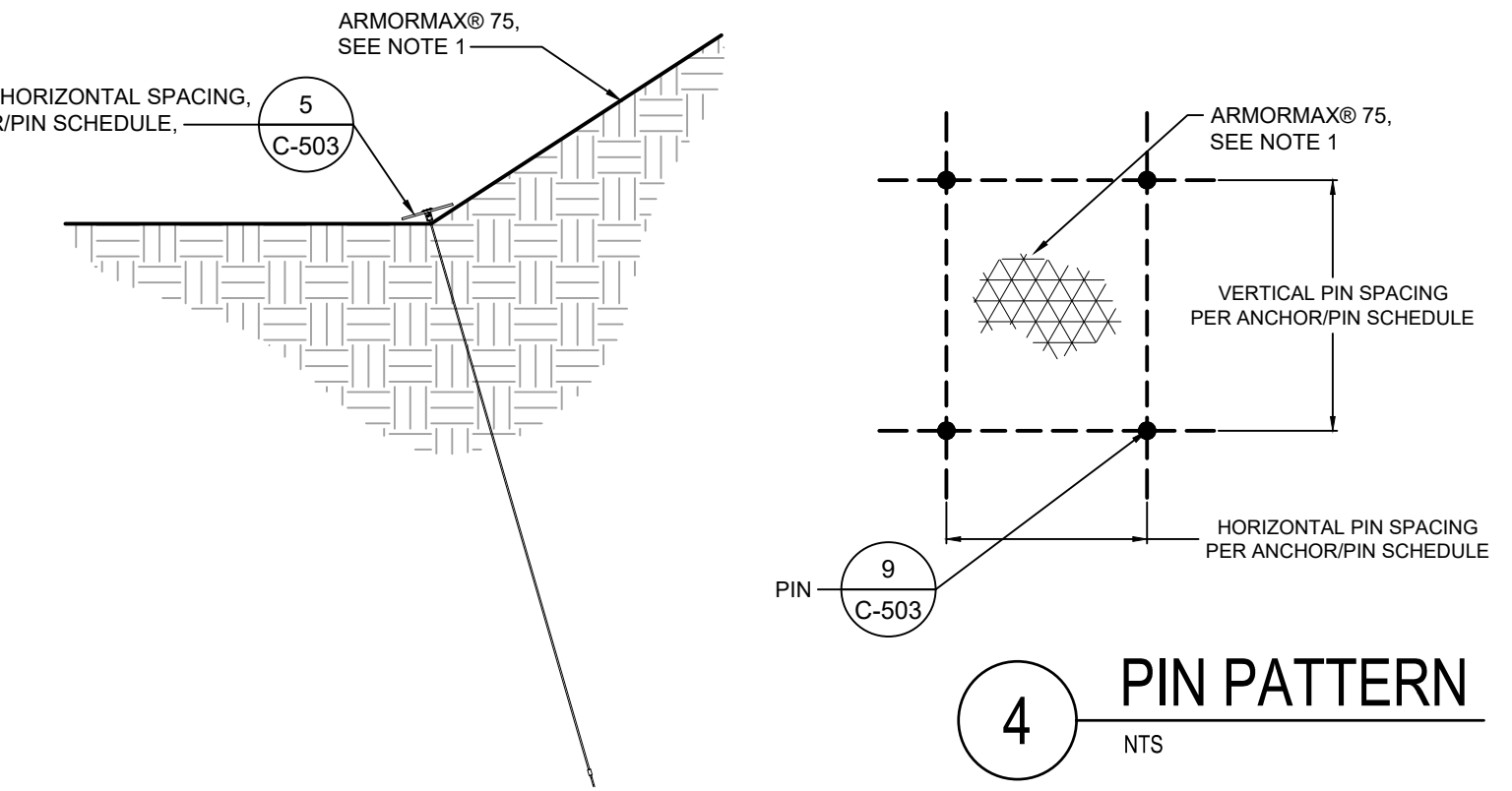
Revision	By	Appd.	Y/M/D



1 PERPENDICULAR INSTALLATION OF ARMORMAX 75 IN A CHANNEL
NTS



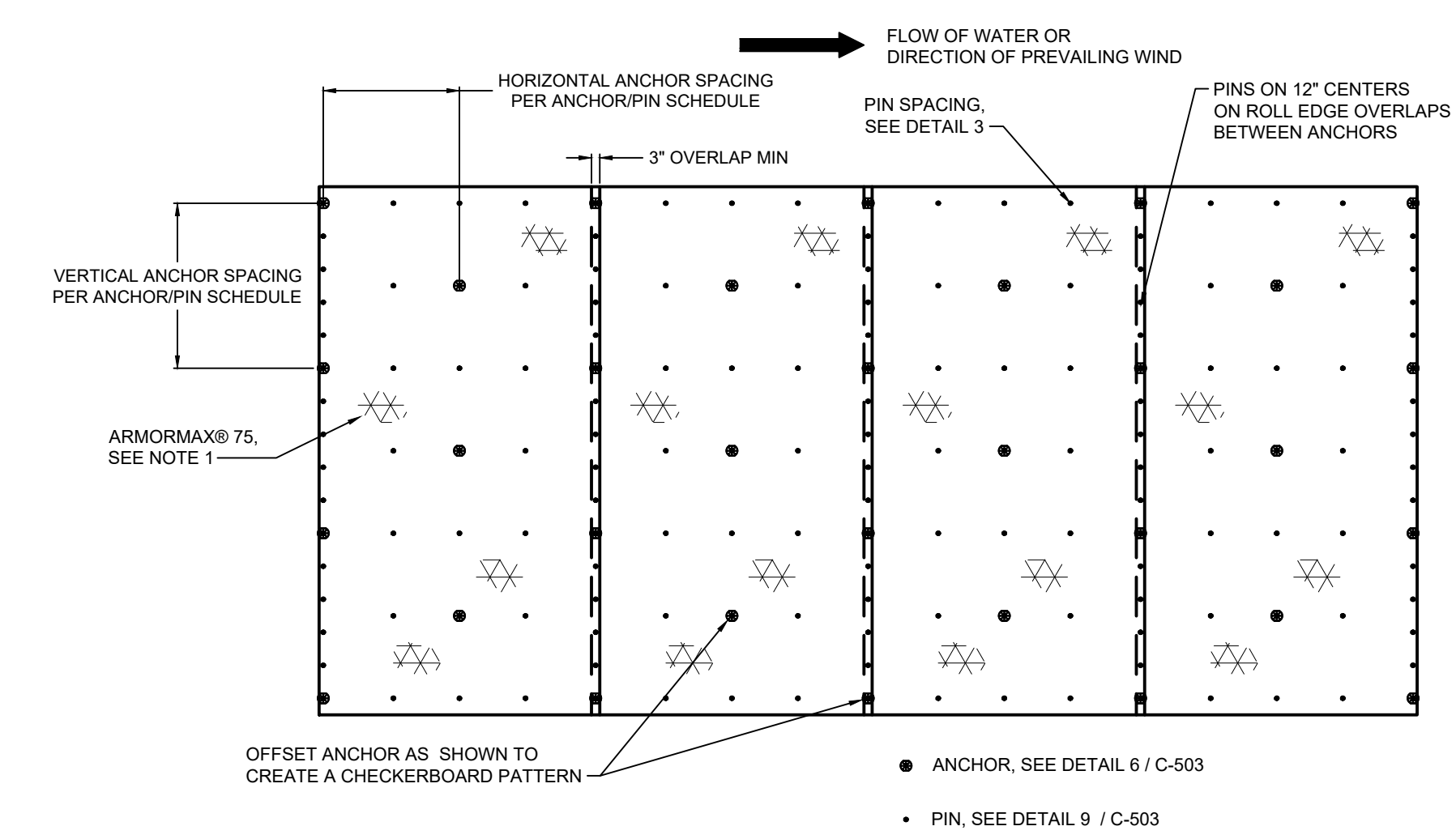
2 CREST OF SLOPE (COS TRENCH)
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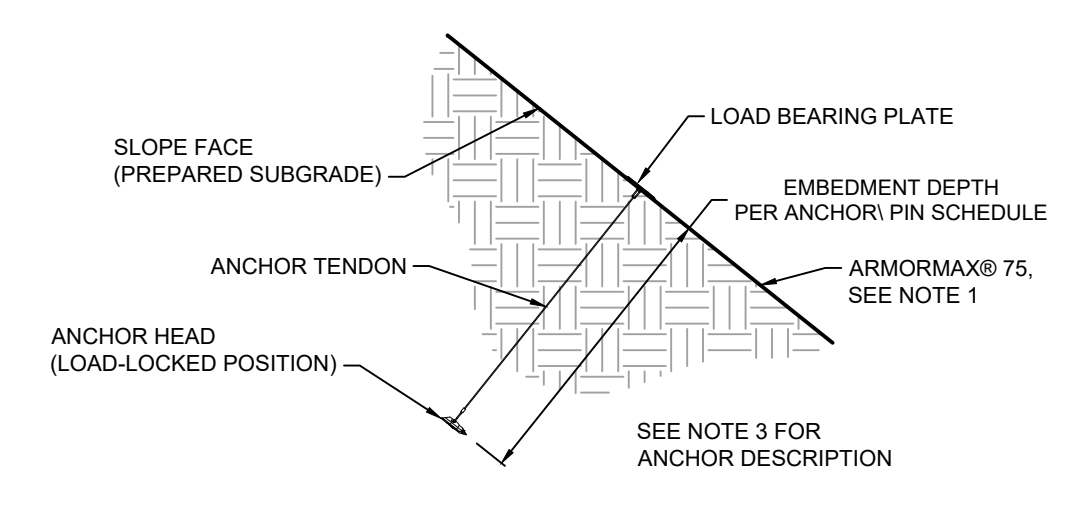
3 BREAK IN SLOPE INTERFACE
NTS



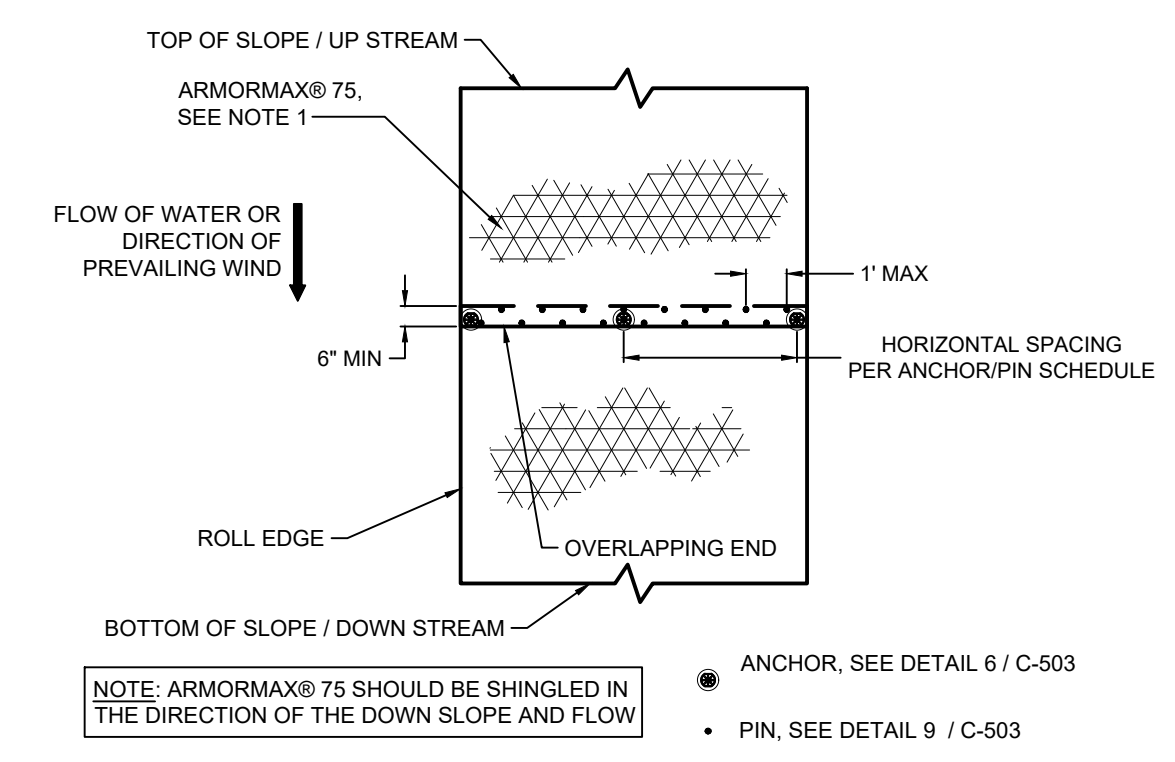
4 PIN PATTERN
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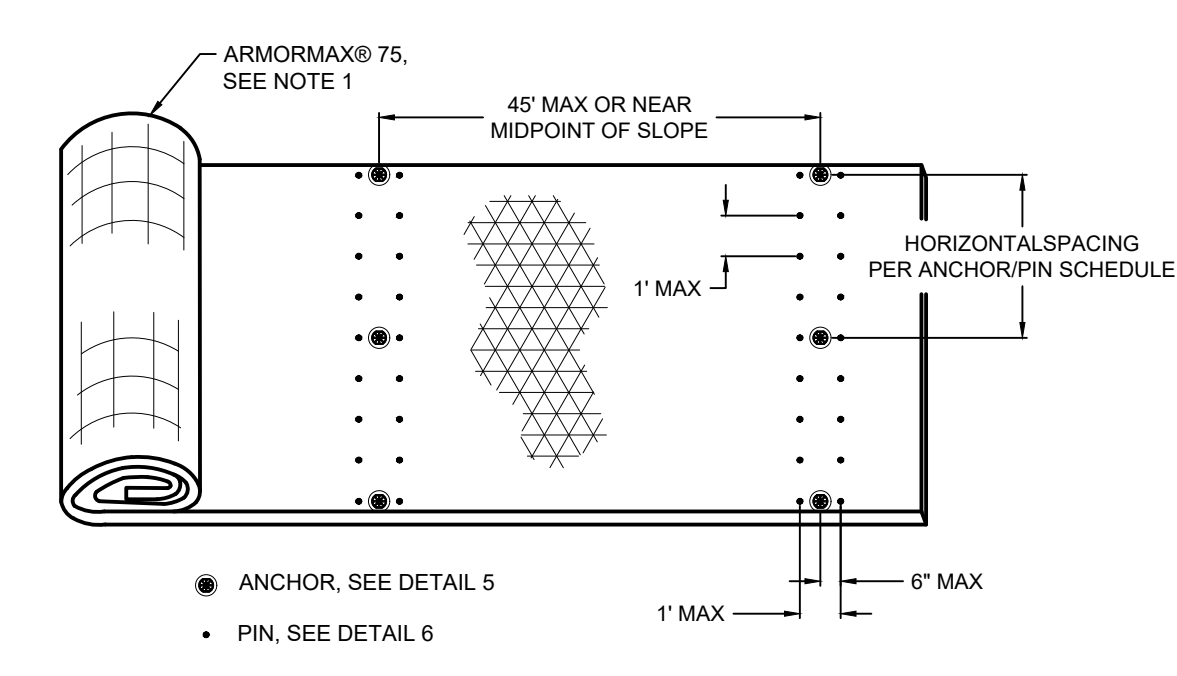
5 ANCHOR / PIN PATTERN
NTS



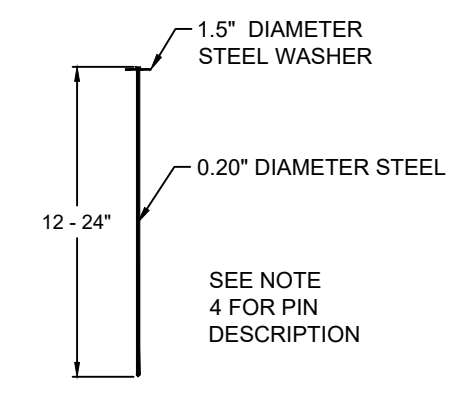
6 ENGINEERED EARTH ANCHOR
NTS



7 OVERLAP AT ROLL END DETAIL
NTS



8 SIMULATED CHECK SLOT DETAIL
NTS



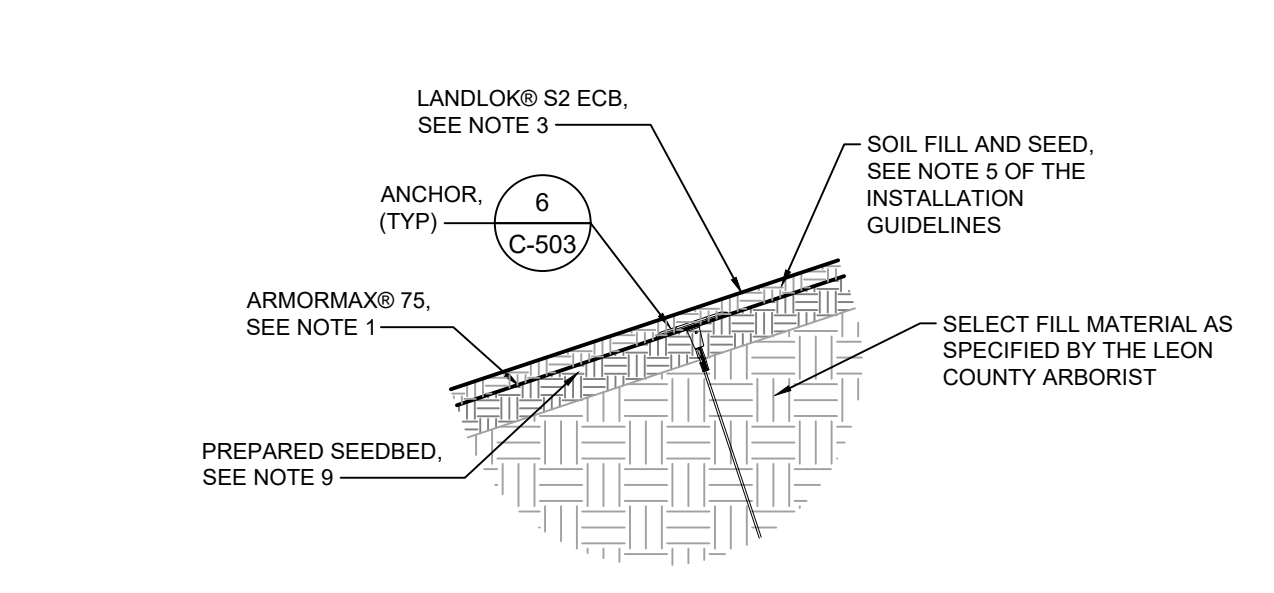
9 PIN
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SLOPE STABILIZATION SYSTEM GENERAL INSTALLATION GUIDELINES / NOTES

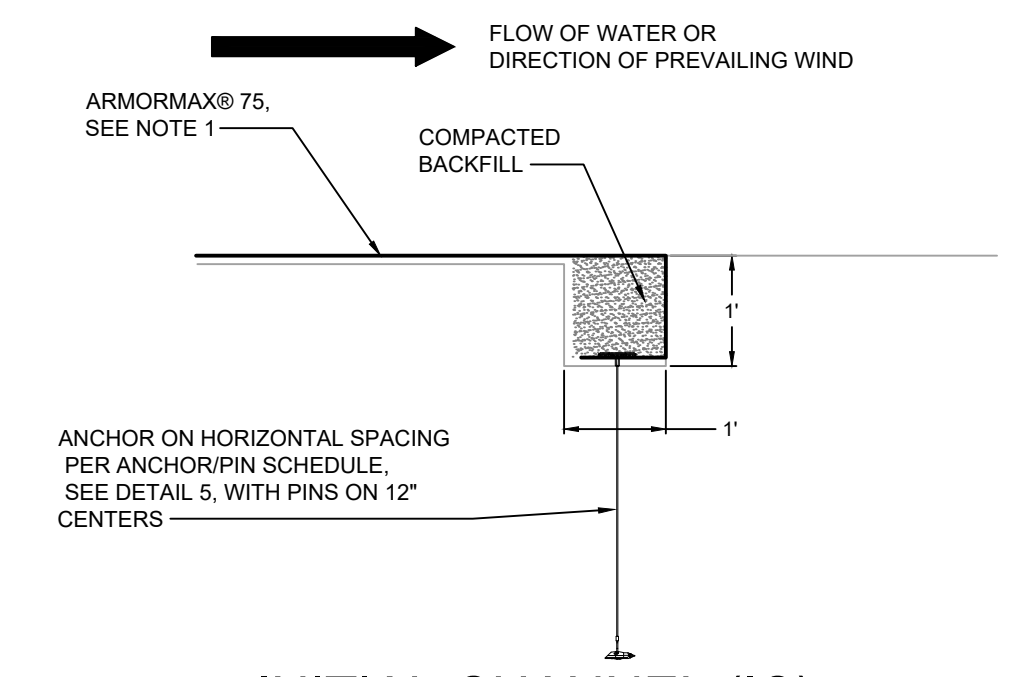
- Contractor shall provide ARMORMAX® 75, or approved equal for permanent erosion protection and surficial slope stability in vegetated and unvegetated applications. It is composed of two components: PYRAMAT® 75 High Performance Turf Reinforcement Mat (HPTRM) and Engineered Earth Anchors. ARMORMAX® 75 shall be provided in green (match color). Contractor shall submit shop drawings of all or-equal products as part of the bid submittal.
- Contractor shall provide PYRAMAT 75 HPTRM, or approved equal in green for erosion control applications on steep slopes and vegetated waterways.
- The Type B2 anchor model, or approved equal is used for surficial slope stability applications and has a working load of up to 1,500 lbs. The Type B2 anchor consists of a die cast aluminum anchor head, zinc-aluminum coated carbon steel cable, a die cast zinc load-locking mechanism with a ceramic roller, and two aluminum ferrules. The Type B2 anchor is also designed with a recessed cavity so the top of the cable can be cut below the surface being protected.
- The 12", 18", and 24" Securing Pins are composed of a wire, mushroomed at the top. These Pins shall conform to industry standards for erosion control pins with washers.
- Contractor shall provide LANDLOK® S2 Erosion Control Blankets, or approved equal which contain 100% wheat straw mechanically bound and covered on both sides by netting. The straw shall be homogeneously blended and evenly distributed throughout the blanket. The netting shall be photodegradable polypropylene with mesh openings of approximately 3/8 in. by 3/8 in. The blanket shall be sewn on approximately 2 in. centers with photodegradable polypropylene thread.
- Prepare seedbed by loosening 2 to 3 in of soil above final grade. Apply seed in an amount equivalent to 60% of the total mixture required to be installed on the soil surface, to scarified surface prior to installation of the ARMORMAX 75. Select and apply soil amendments and fertilizer, to scarified surface prior to installation of the ARMORMAX 75. A site specific soil test should be performed to help determine what soil amendments, such as lime and fertilizer, need to be incorporated into the soil to promote native vegetation.
- Once installed, ARMORMAX 75 shall be soil filled and seeded with the remaining 40% of the seed mixture. Do not place excessive soil above material. Once soil fill and additional seed is in place, surficial protection should be accomplished by installing LANDLOK S2 Erosion Control Blanket atop the seed layer. LANDLOK S2 is to be secured using 6" U-shaped staples with a frequency of 2.0 staples per square meter (1.7 staples per square yard).
- Irrigate to establish and maintain vegetation. Frequent, light irrigation will need to be applied to seeded areas if natural rain events have not occurred within two weeks of seeding. When watering seeded areas, use a fine spray to prevent erosion of seeds or soil. Do not over irrigate.

ANCHOR / B2 SPACING	
SECURING DEVICE	ANCHOR
HORIZONTAL ANCHOR SPACING	4.0 FT.
VERTICAL ANCHOR SPACING	3.0 FT.
EMBEDMENT LENGTH	6.0 FT.
PULLOUT STRENGTH	1,000 lbs

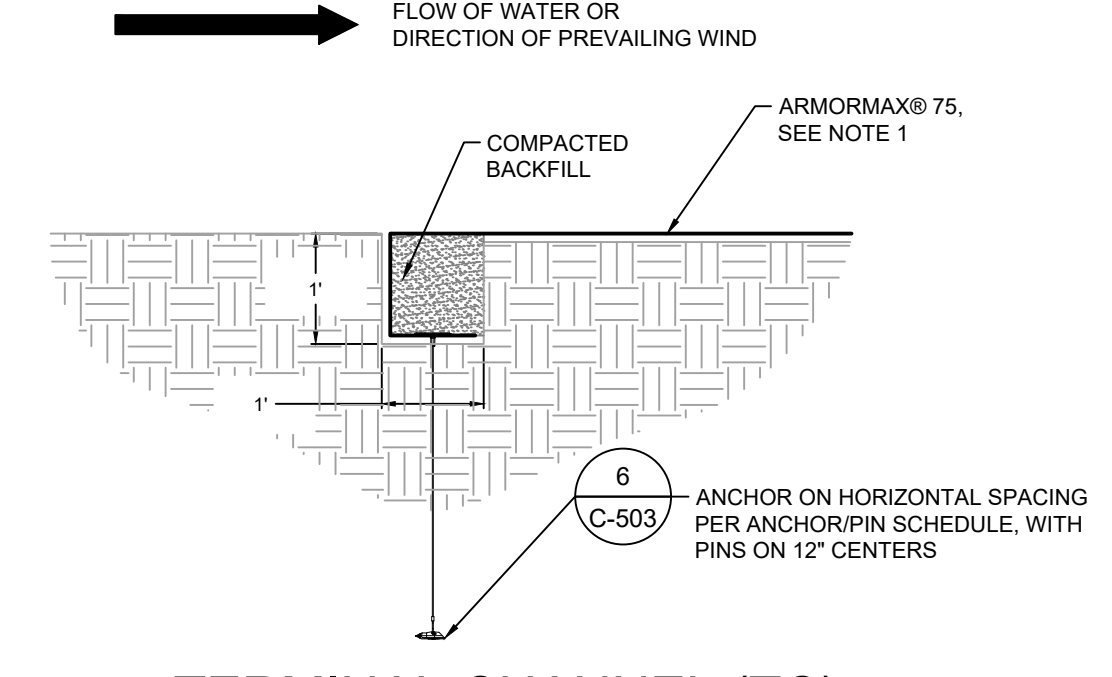
NOTE:
PRIOR TO FINAL ACCEPTANCE, ANCHOR TESTING SHALL BE PERFORMED BY THE CONTRACTOR TO CONFIRM THE PULLOUT STRENGTH OF THE ANCHORS IS APPROPRIATE AND COMPLIES WITH MANUFACTURER RECOMMENDATIONS. ADDITIONAL ANCHORS LENGTHS OR SIZES MAY BE NEEDED TO ACHIEVE THE REQUIRED PULLOUT STRENGTH.



10 VEGETATION ESTABLISHMENT
NTS

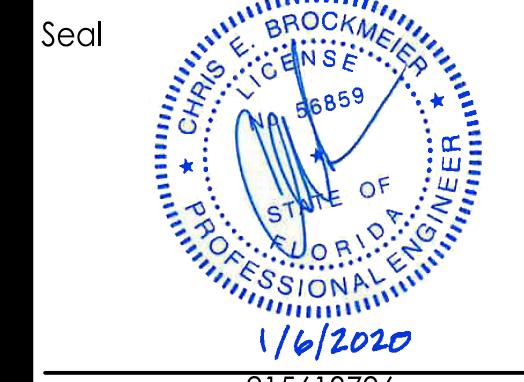


11 INITIAL CHANNEL (IC) TRENCH (DOWNSTREAM)
NTS



12 TERMINAL CHANNEL (TC) TRENCH (UPSTREAM)
NTS

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LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
ARMORMAX DETAILS



Project Number: **215613796**

File Name: 13796-TITLE BLOCK

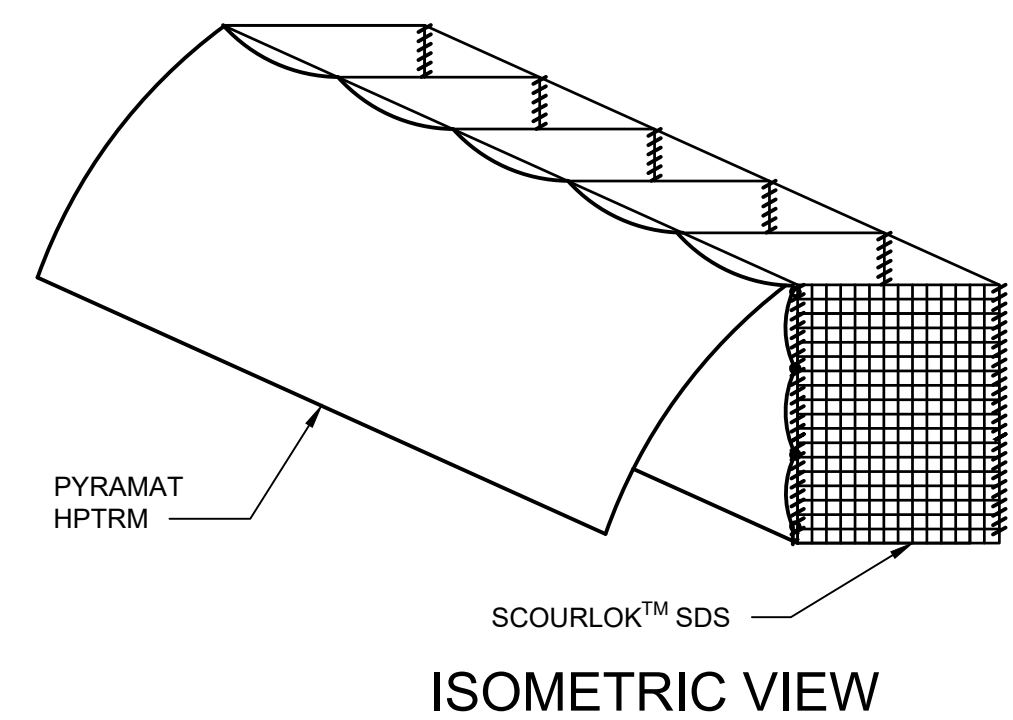
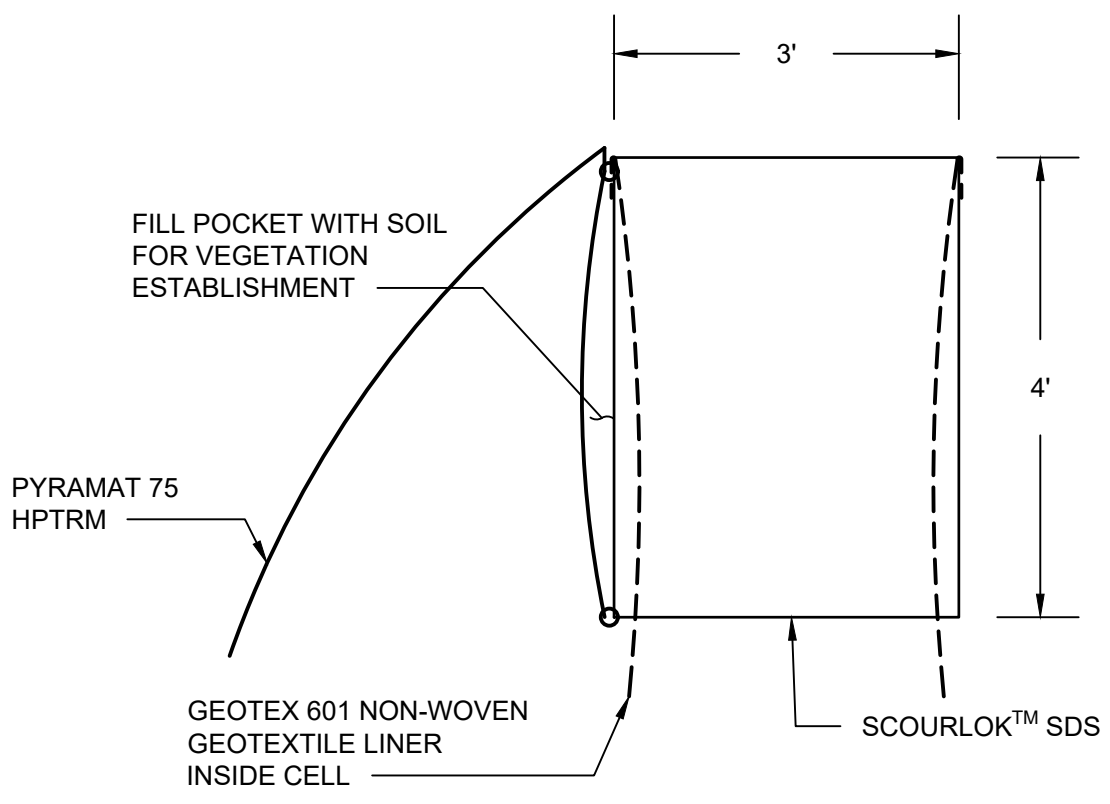
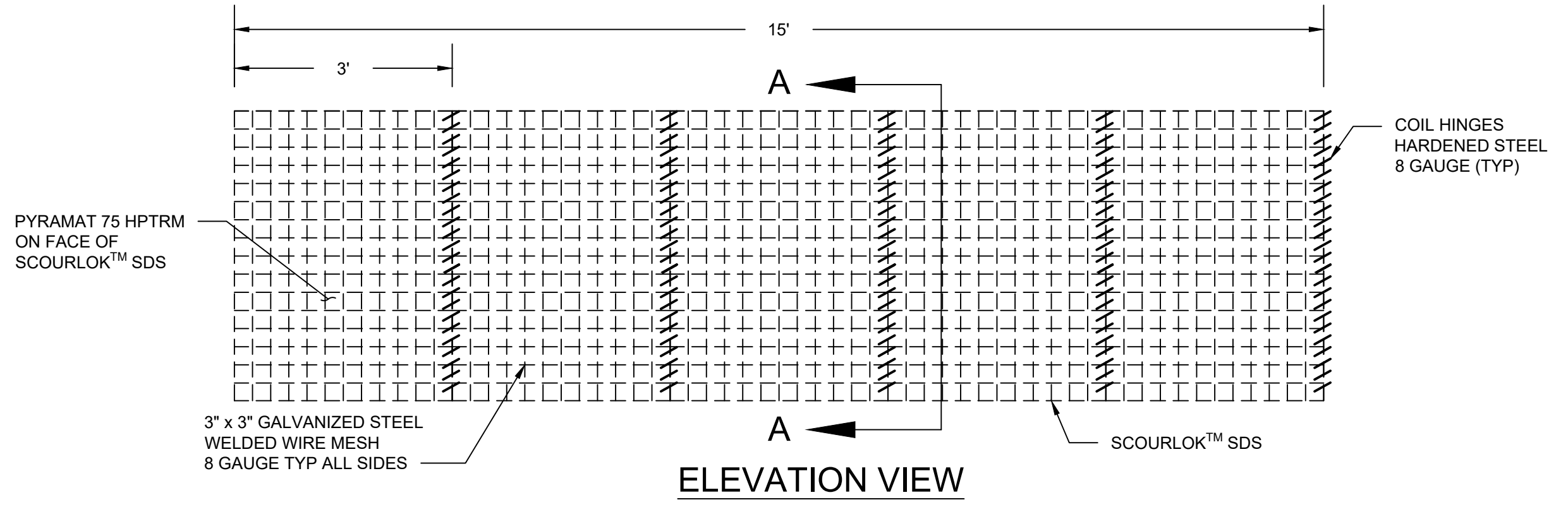
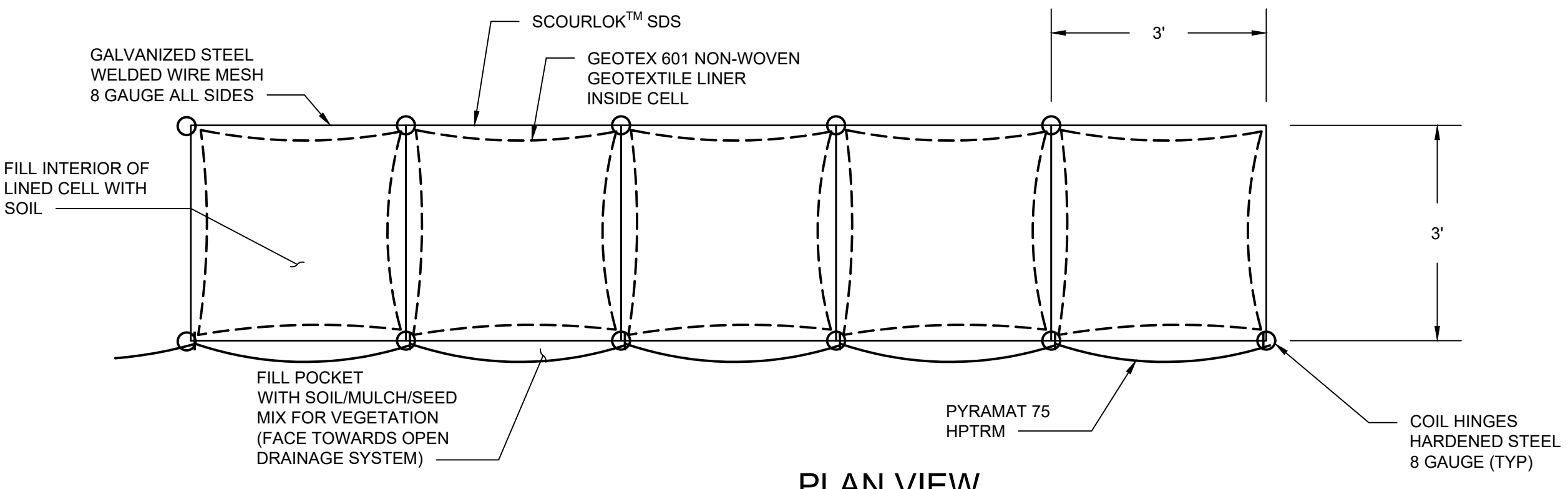
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Drawing No. **C-503**

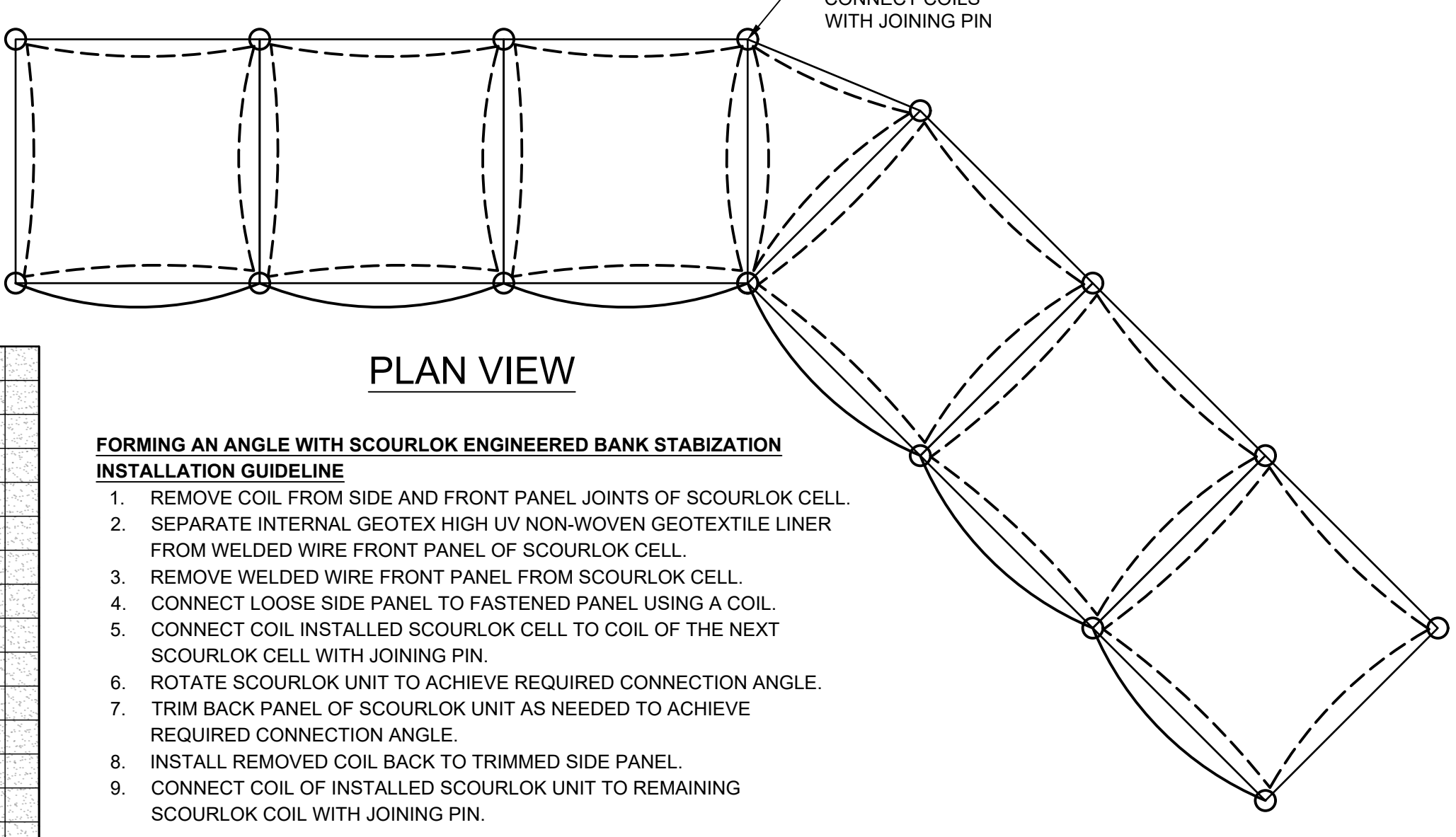
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Revision	By	Appd.	Yr./MM/DD

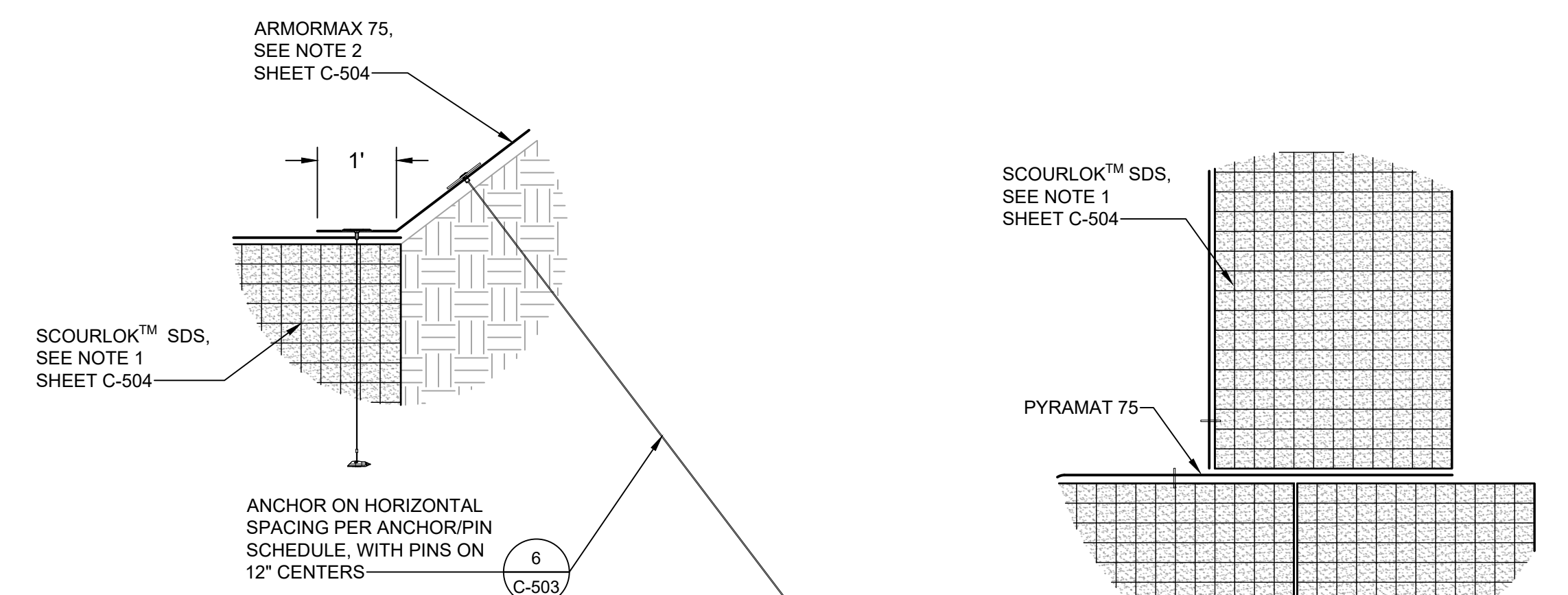
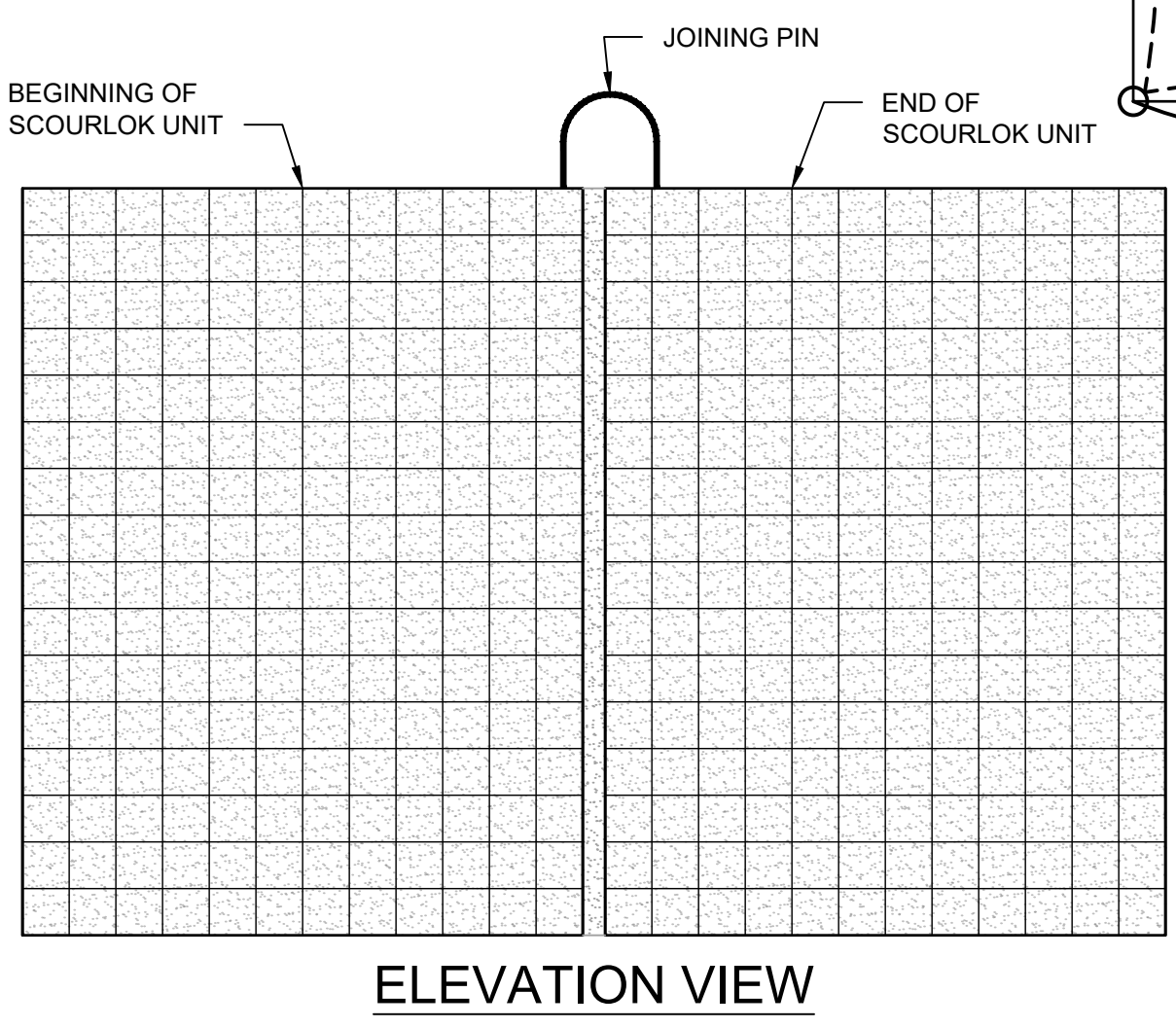


1 SCOURLOK SDS
NTS

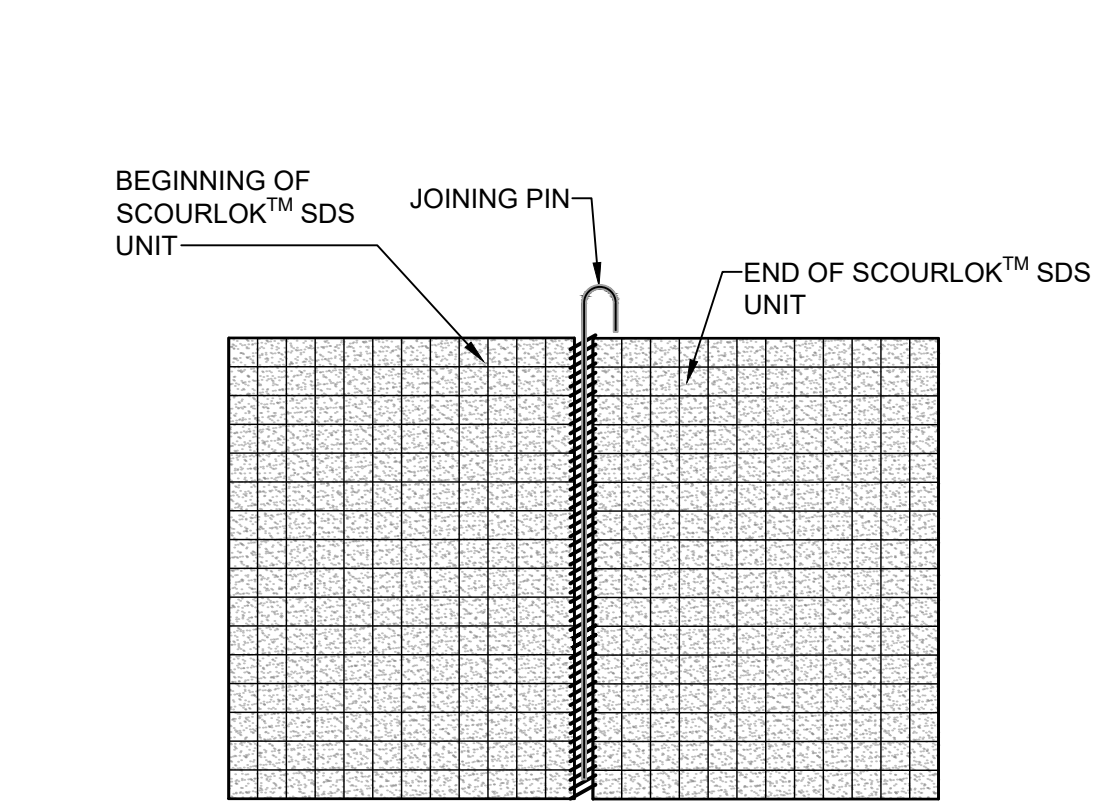


- FORMING AN ANGLE WITH SCOURLOK ENGINEERED BANK STABILIZATION INSTALLATION GUIDELINE**
1. REMOVE COIL FROM SIDE AND FRONT PANEL JOINTS OF SCOURLOK CELL.
 2. SEPARATE INTERNAL GEOTEX HIGH UV NON-WOVEN GEOTEXTILE LINER FROM WELDED WIRE FRONT PANEL OF SCOURLOK CELL.
 3. REMOVE WELDED WIRE FRONT PANEL FROM SCOURLOK CELL.
 4. CONNECT LOOSE SIDE PANEL TO FASTENED PANEL USING A COIL.
 5. CONNECT COIL INSTALLED SCOURLOK CELL TO COIL OF THE NEXT SCOURLOK CELL WITH JOINING PIN.
 6. ROTATE SCOURLOK UNIT TO ACHIEVE REQUIRED CONNECTION ANGLE.
 7. TRIM BACK PANEL OF SCOURLOK UNIT AS NEEDED TO ACHIEVE REQUIRED CONNECTION ANGLE.
 8. INSTALL REMOVED COIL BACK TO TRIMMED SIDE PANEL.
 9. CONNECT COIL OF INSTALLED SCOURLOK UNIT TO REMAINING SCOURLOK COIL WITH JOINING PIN.

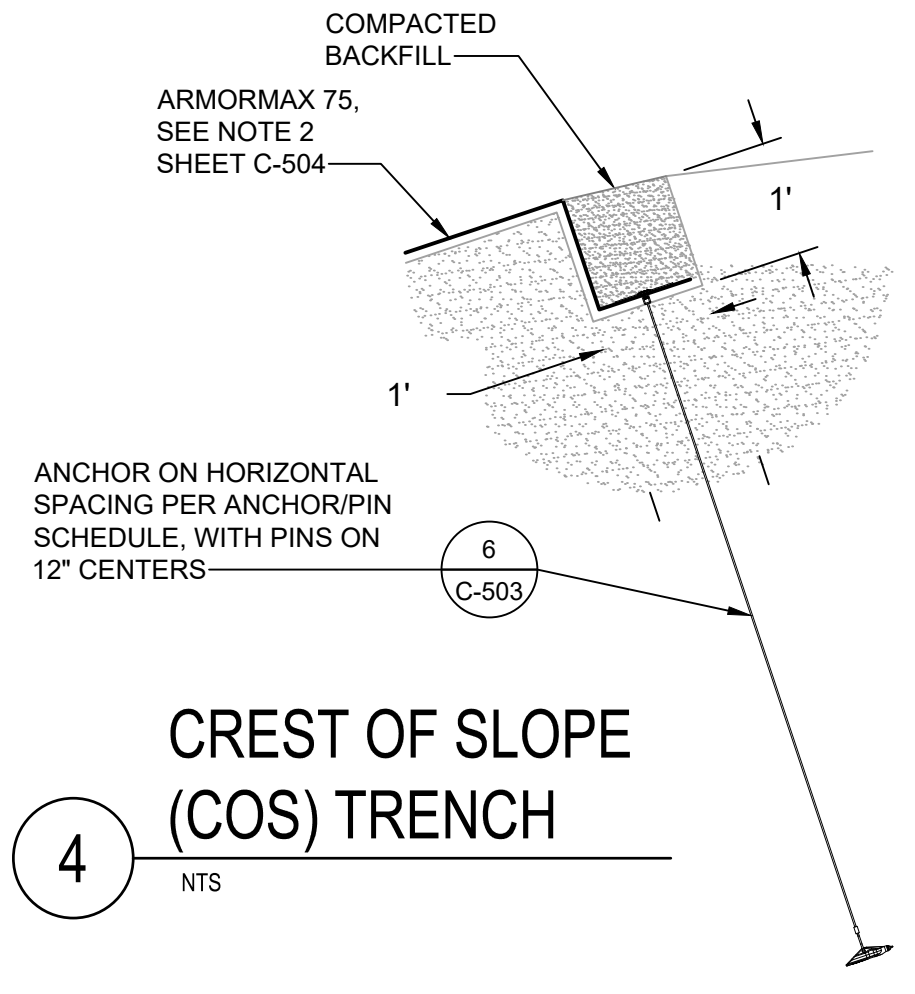
6 CONNECTION SCOURLOK UNITS
NTS



3 SCOURLOK (SDS) STACKING
NTS



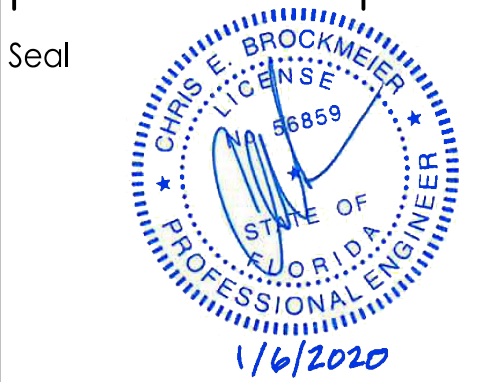
5 CONNECTING SCOURLOK SDS UNITS
NTS



SCOURLOK™ SHORELINE DEFENSE SYSTEM(SDS) GENERAL INSTALLATION GUIDELINES / NOTES

1. CONTRACTOR SHALL PROVIDE SCOURLOK™ SHORELINE DEFENSE SYSTEM (SDS), OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL OR-EQUAL PRODUCTS AS PART OF THE BID SUBMITTAL.
2. CONTRACTOR SHALL PROVIDE ARMORMAX 75, OR APPROVED EQUAL FOR PERMANENT EROSION PROTECTION AND SURFICIAL SLOPE STABILITY. ARMORMAX 75 SHALL BE GREEN IN COLOR.
3. CONTRACTOR SHALL PROVIDE PYRAMAT 75 HPTRM, OR APPROVED EQUAL IN GREEN FOR EROSION CONTROL APPLICATIONS ON STEEP SLOPES AND VEGETATED WATERWAYS.
4. THE TYPE B2 ANCHOR MODEL, OR APPROVED EQUAL IS USED FOR SURFICIAL SLOPE STABILITY APPLICATIONS AND HAS A WORKING LOAD OF UP TO 1,500 LBS. THE TYPE B2 ANCHOR CONSISTS OF A DIE CAST ALUMINUM ANCHOR HEAD, ZINC-ALUMINUM COATED CARBON STEEL CABLE, A DIE CAST ZINC LOAD-LOCKING MECHANISM WITH A CERAMIC ROLLER, AND TWO ALUMINUM FERRULES. THE TYPE B2 ANCHOR IS ALSO DESIGNED WITH A RECESSED CAVITY SO THE TOP OF THE CABLE CAN BE CUT BELOW THE SURFACE BEING PROTECTED.
5. THE 12", 18", AND 24" SECURING PINS ARE COMPOSED OF A WIRE, MUSHROOMED AT THE TOP. THESE PINS SHALL CONFORM TO INDUSTRY STANDARDS FOR EROSION CONTROL PINS WITH WASHERS.
6. HOG RING TO BE 16 GAUGE STAINLESS STEEL, OR APPROVED EQUAL TO BE INSTALLED AT 2' MAXIMUM LONGITUDINAL SPACING.
7. SECURING BOLT TO BE 5" LONG, 3/4" DIAMETER GALVANIZED STEEL BOLT OR APPROVED EQUIVALENT TO BE EMBEDDED 3" MINIMUM INTO CONCRETE STRUCTURE AT 2' MINIMUM LONGITUDINAL SPACING FOR ATTACHMENT OF ARMORMAX 75, OR APPROVED EQUAL BY GALVANIZED NUT AND 1.5" DIAMETER MINIMUM WASHER.
8. PREPARE SEEDBED BY LOOSENING 2 TO 3 IN OF SOIL ABOVE FINAL GRADE. APPLY SEED IN AN AMOUNT EQUIVALENT TO 60% OF THE TOTAL MIXTURE REQUIRED TO BE INSTALLED ON THE SOIL SURFACE, TO SCARIFIED SURFACE PRIOR TO INSTALLATION OF THE ARMORMAX 75. SELECT AND APPLY SOIL AMENDMENTS AND FERTILIZER, TO SCARIFIED SURFACE PRIOR TO INSTALLATION OF THE ARMORMAX 75. A SITE SPECIFIC SOIL TEST SHOULD BE PERFORMED TO HELP DETERMINE WHAT SOIL AMENDMENTS, SUCH AS LIME AND FERTILIZER, NEED TO BE INCORPORATED INTO THE SOIL TO PROMOTE NATIVE VEGETATION.
9. ONCE INSTALLED, ARMORMAX 75 SHALL BE SOIL FILLED AND SEEDED WITH THE REMAINING 40% OF THE SEED MIXTURE. DO NOT PLACE EXCESSIVE SOIL ABOVE MATERIAL. ONCE SOIL FILL AND ADDITIONAL SEED IS IN PLACE, SURFICIAL PROTECTION SHOULD BE ACCOMPLISHED BY INSTALLING LANDLOK S2 EROSION CONTROL BLANKET ATOP THE SEED LAYER. LANDLOK S2 IS TO BE SECURED USING 6" U-SHAPED STAPLES WITH A FREQUENCY OF 2.0 STAPLES PER SQUARE METER (1.7 STAPLES PER SQUARE YARD).
10. IRRIGATE TO ESTABLISH AND MAINTAIN VEGETATION. FREQUENT, LIGHT IRRIGATION WILL NEED TO BE APPLIED TO SEEDED AREAS IF NATURAL RAIN EVENTS HAVE NOT OCCURRED WITHIN TWO WEEKS OF SEEDING. WHEN WATERING SEEDED AREAS, USE A FINE SPRAY TO PREVENT EROSION OF SEEDS OR SOIL. DO NOT OVER IRRIGATE.
11. SEE LANDSCAPING PLANS FOR PLANTING MATERIALS INSIDE SCOURLOK UNITS.
12. LEVELING COURSE MATERIAL TO BE GRANULAR AND LARGER THAN NO. 4 US SIEVE AND BE A UNIT WEIGHT OF 130 LB/FT³, PER FDOT STANDARD SPECIFICATIONS.
13. THE BASE ROW OF SCOURLOK SHALL BE PLACED ON A ROCK LEVELING COURSE WITH A MINIMUM THICKNESS OF 1 FT. FREE DRAINING, GRANULAR, SELF-CONSOLIDATING FILL SHALL BE USED TO FILL THE BASE ROW OF SCOURLOK AND TO BACKFILL BEHIND THE FIRST ROW TO ENSURE ADEQUATE DRAINAGE CONDITIONS. THE LEVELING COURSE AND BACKFILL SHALL BE SEPARATED FROM THE EXISTING SOIL WITH THE USE OF NONWOVEN GEOTEXTILE FABRIC. THE UPPER ROWS OF SCOURLOK ARE SPECIFIED TO BE FILLED WITH APPROVED EXCAVATED ONSITE MATERIAL. THE SCOURLOK FILL MATERIAL SHALL VARY DEPENDING ON PROJECT SPECIFIC DESIGN PER SPECIFIC DETAILS. FILL SHALL BE FREE OF LARGE ROCKS, BOULDERS, SOIL CLOUDS, VEGETATION, AND OTHER SHARP OBJECTS.
14. FILL MATERIAL PLACED INSIDE UPPER ROW OF SCOURLOK AND BEHIND SCOURLOK TO BE ONSITE SOILS COMPACTED TO A MINIMUM OF 90% STANDARD PROCTOR AND FREE OF ORGANIC MATERIAL.
15. SCOURLOK POCKETS TO CONTAIN PLANTINGS SHALL BE FILLED WITH A GROWTH MEDIUM (SOIL, MULCH, ETC.) AND NOTED PLANTINGS.

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LEON COUNTY
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MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
SCOURLOK DETAILS A



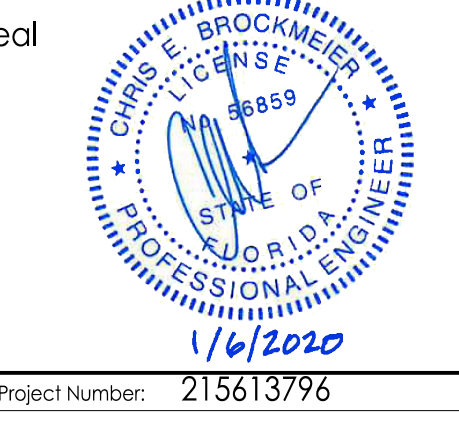
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Drawing No. **C-504**
Revision Sheet

Revision	By	Appd.	YY.MM.DD

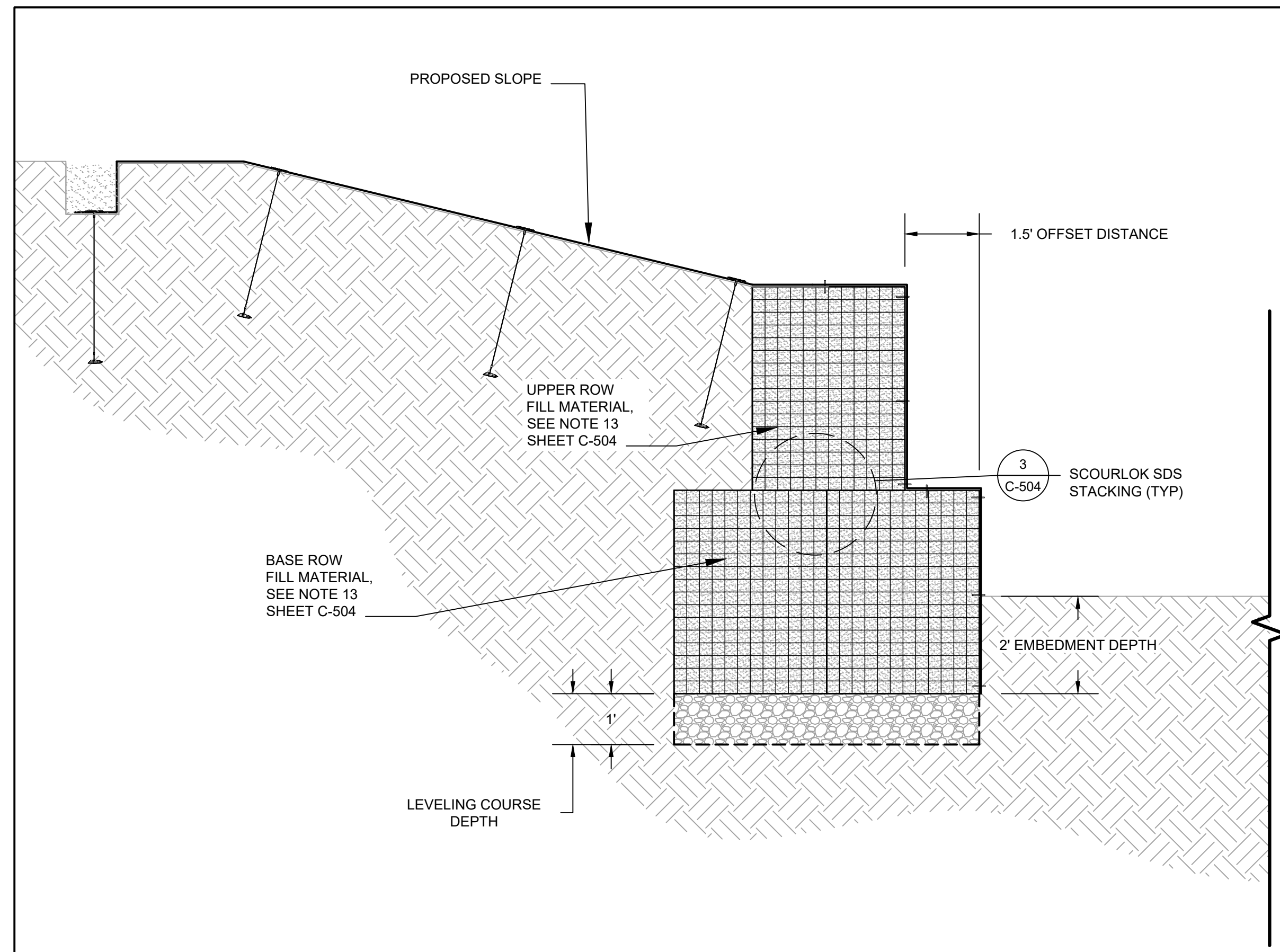
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PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
SCOURLOK DETAILS B



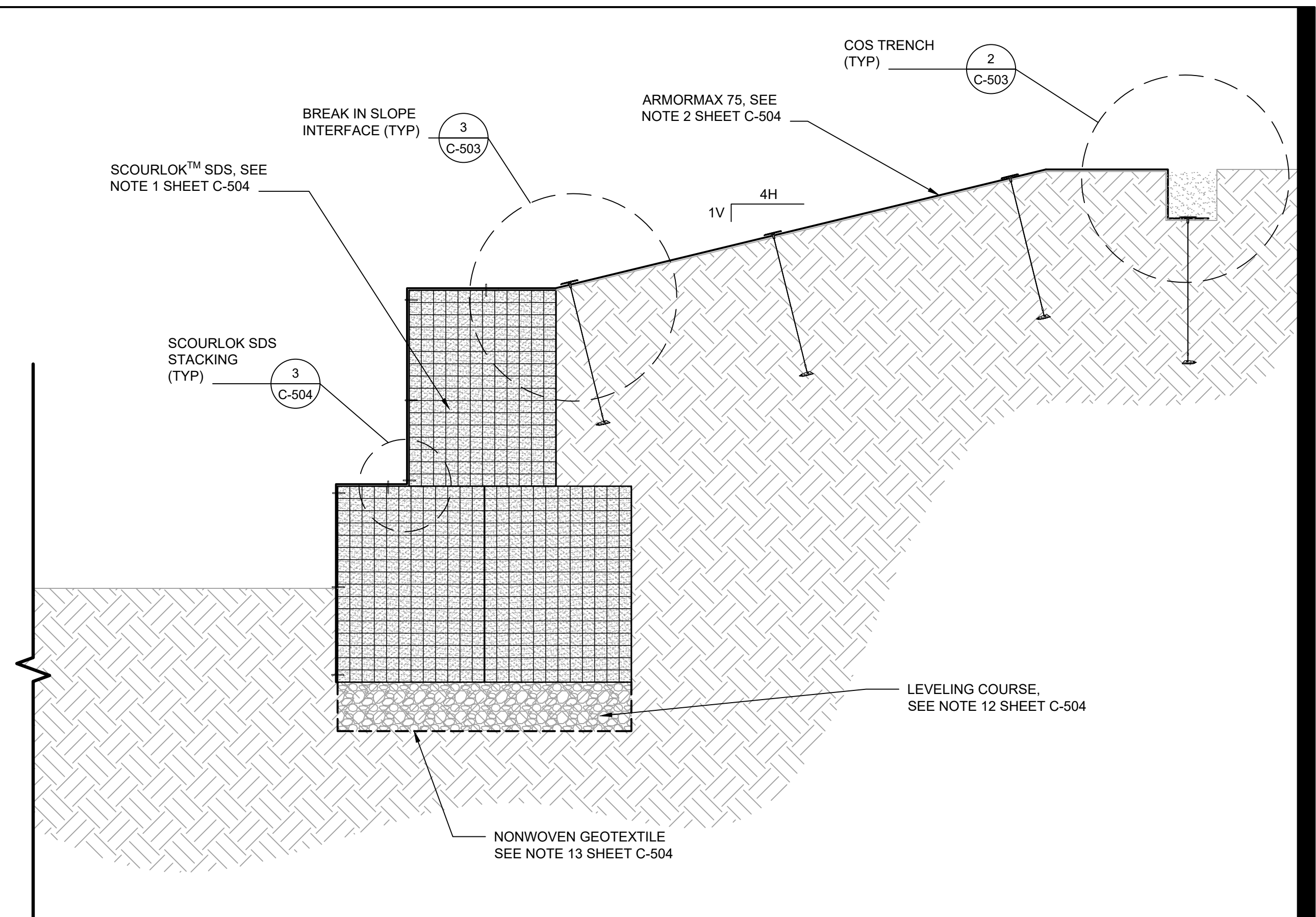
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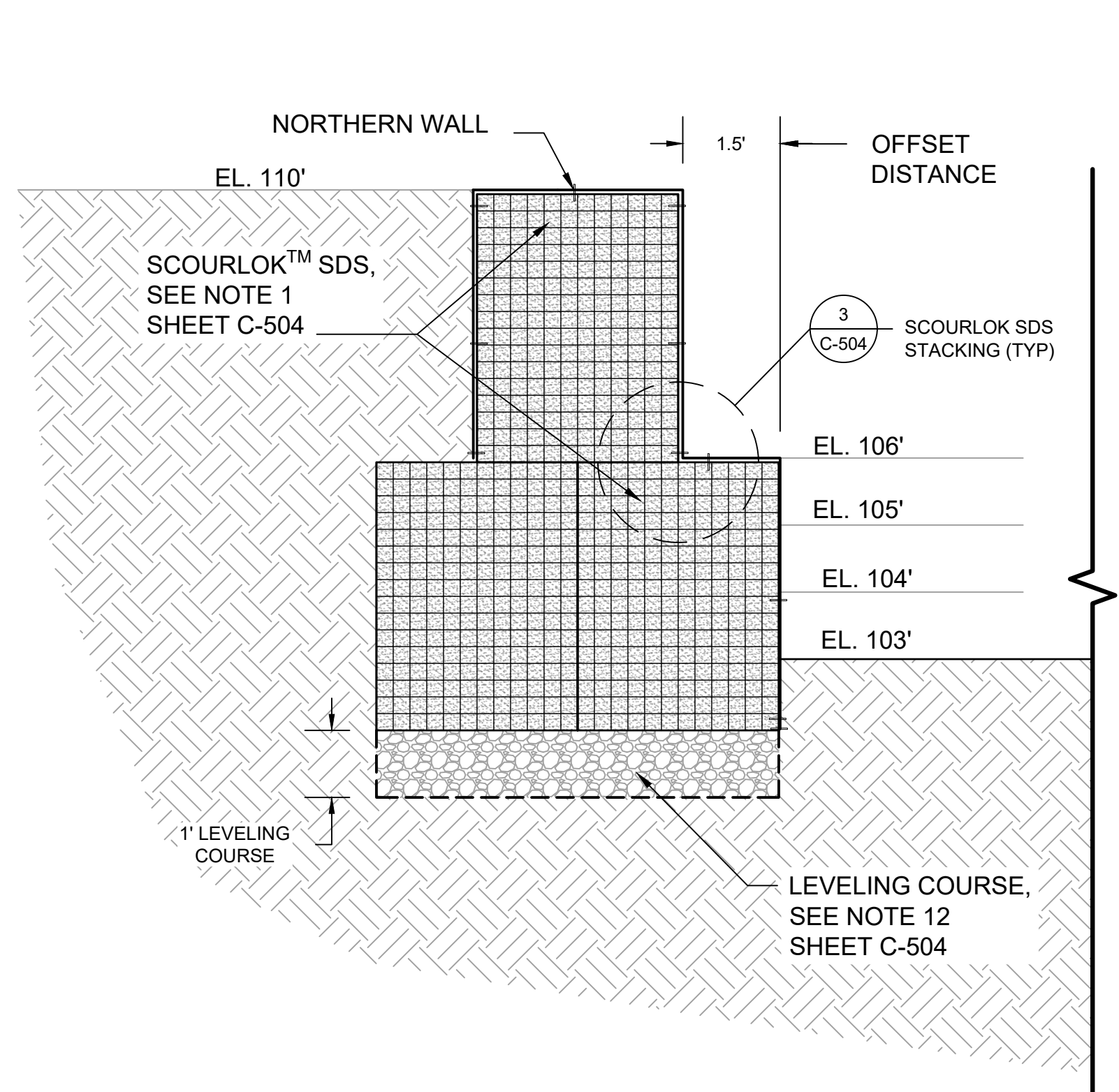
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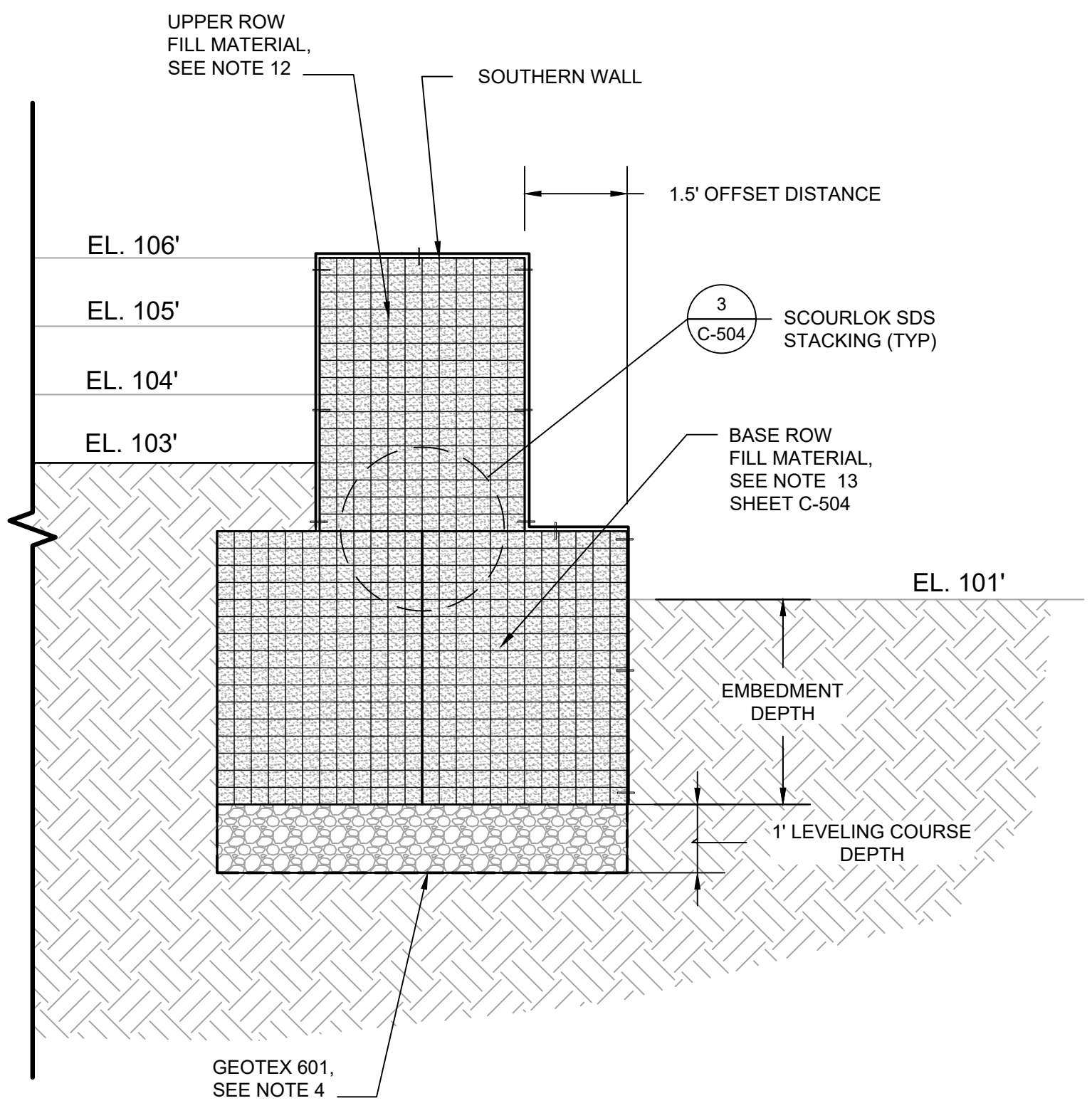
1 WEST BASIN INSTALLATION OF SCOURLOK
1" = 2"



2 WEST BASIN INSTALLATION OF SCOURLOK
1" = 2"



3 EAST BASIN INSTALLATION OF SCOURLOK
1" = 2"



4 EAST BASIN INSTALLATION OF SCOURLOK
1" = 2"

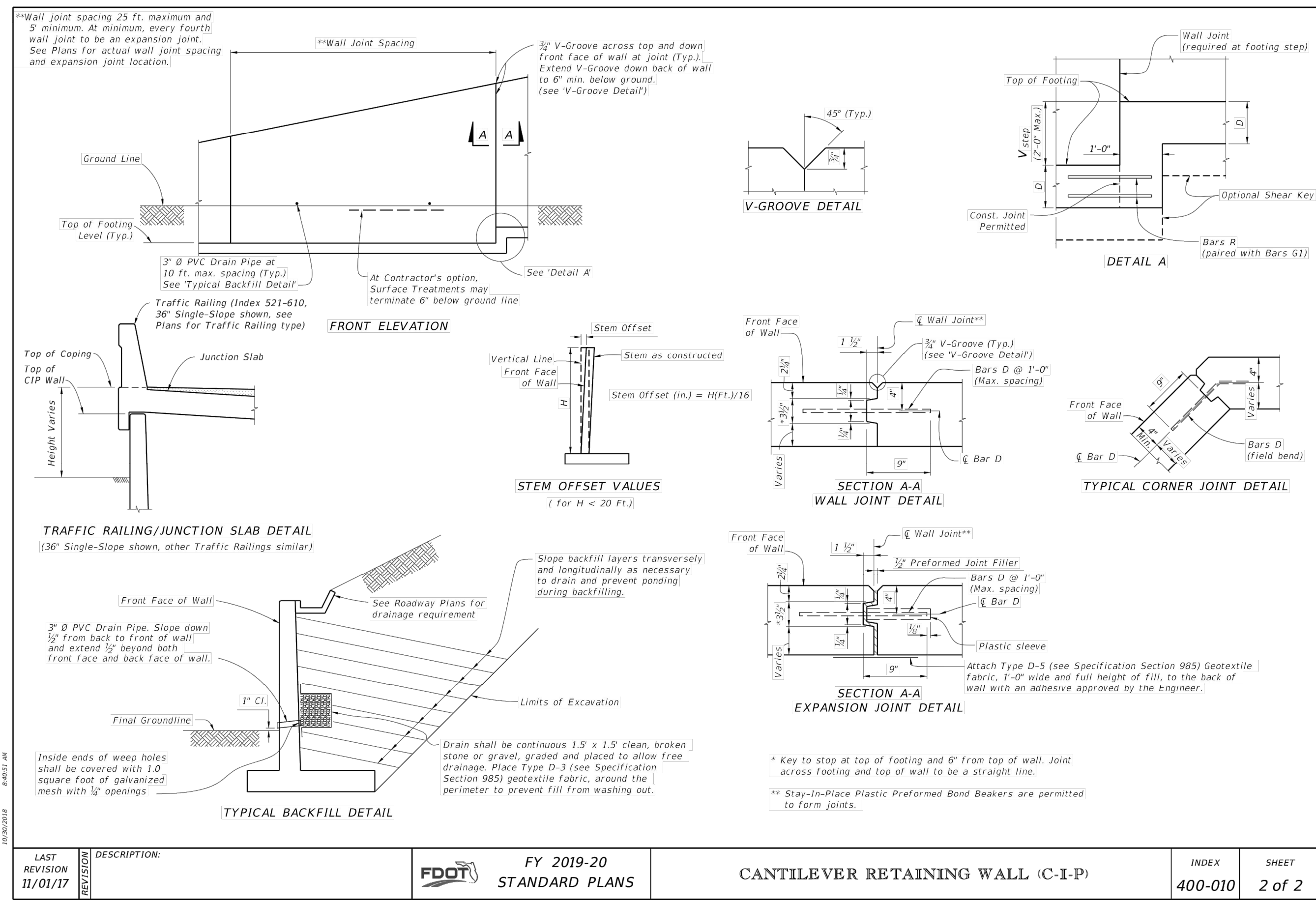
Revision	By	App'd.	Y/M/MD	Issued

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
FDOT CIP RETAINING
WALL

Project Number: 215613796
File Name: 13796-TITLE BLOCK

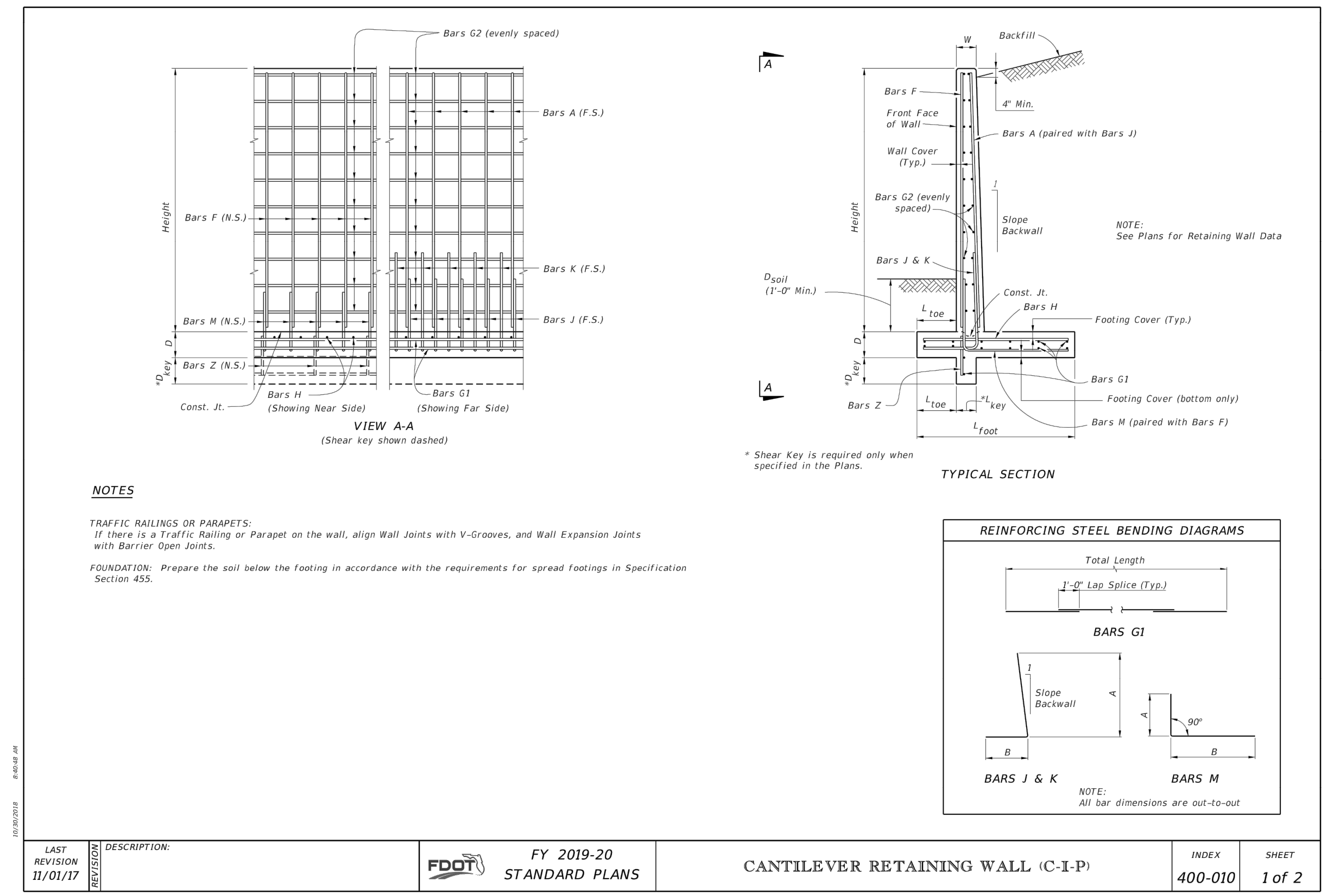
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Drawing No. **C-506**
Revision Sheet



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11/01/17		400-010	1 of 2

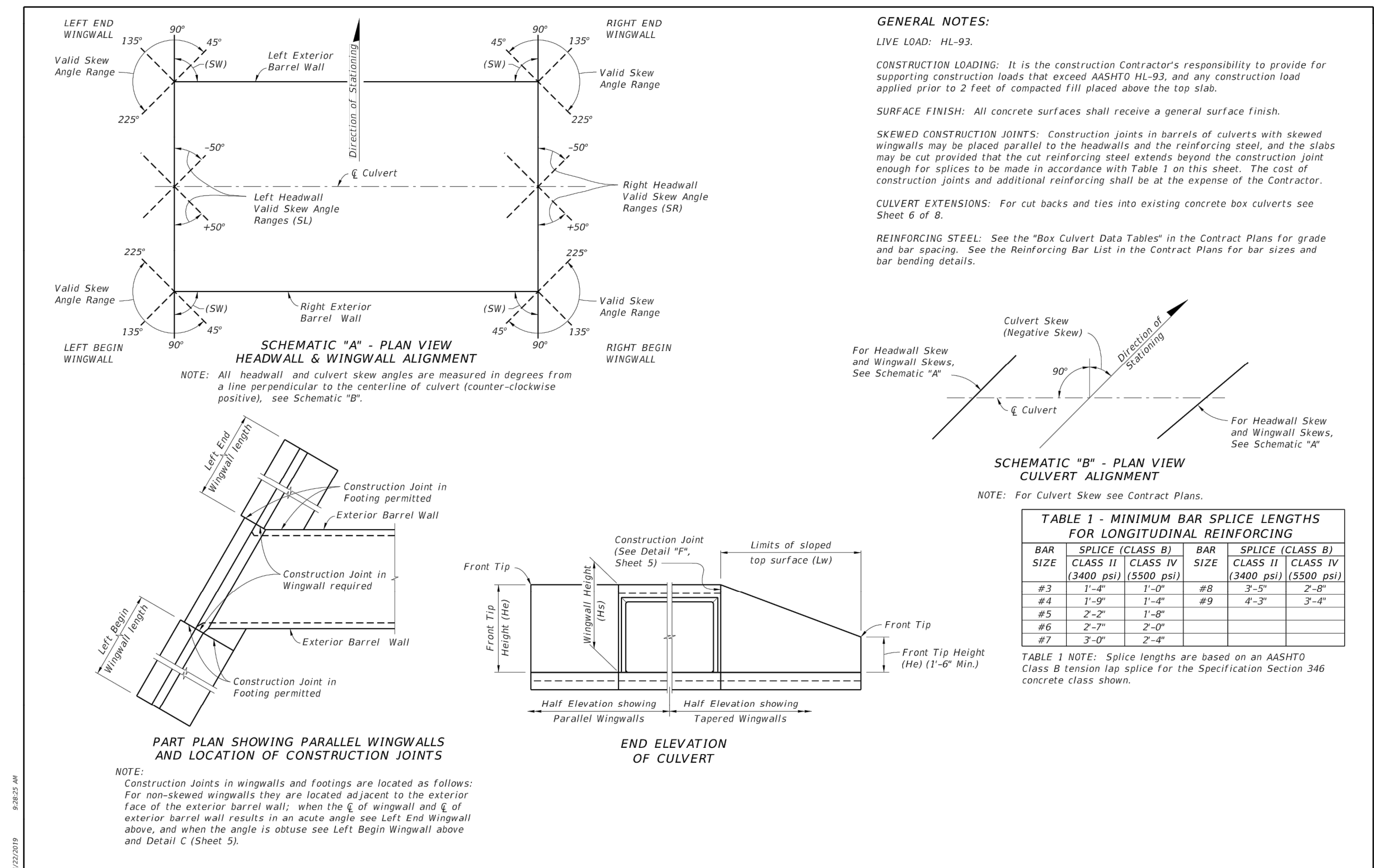
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11/01/17		400-010	2 of 2



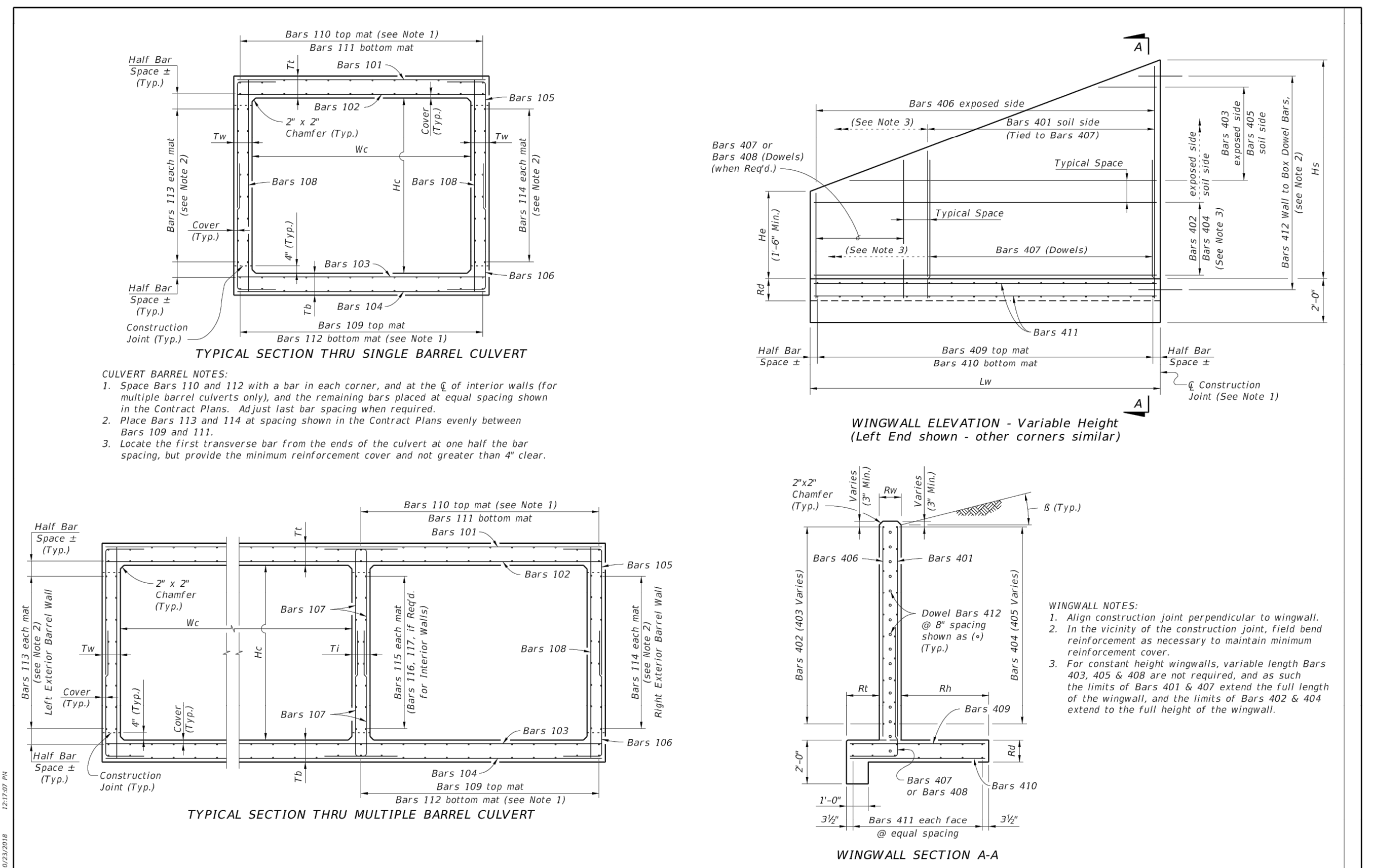
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11/01/17		400-010	1 of 2

LAST REVISION	DESCRIPTION:	INDEX	SHEET
11/01/17		400-010	2 of 2

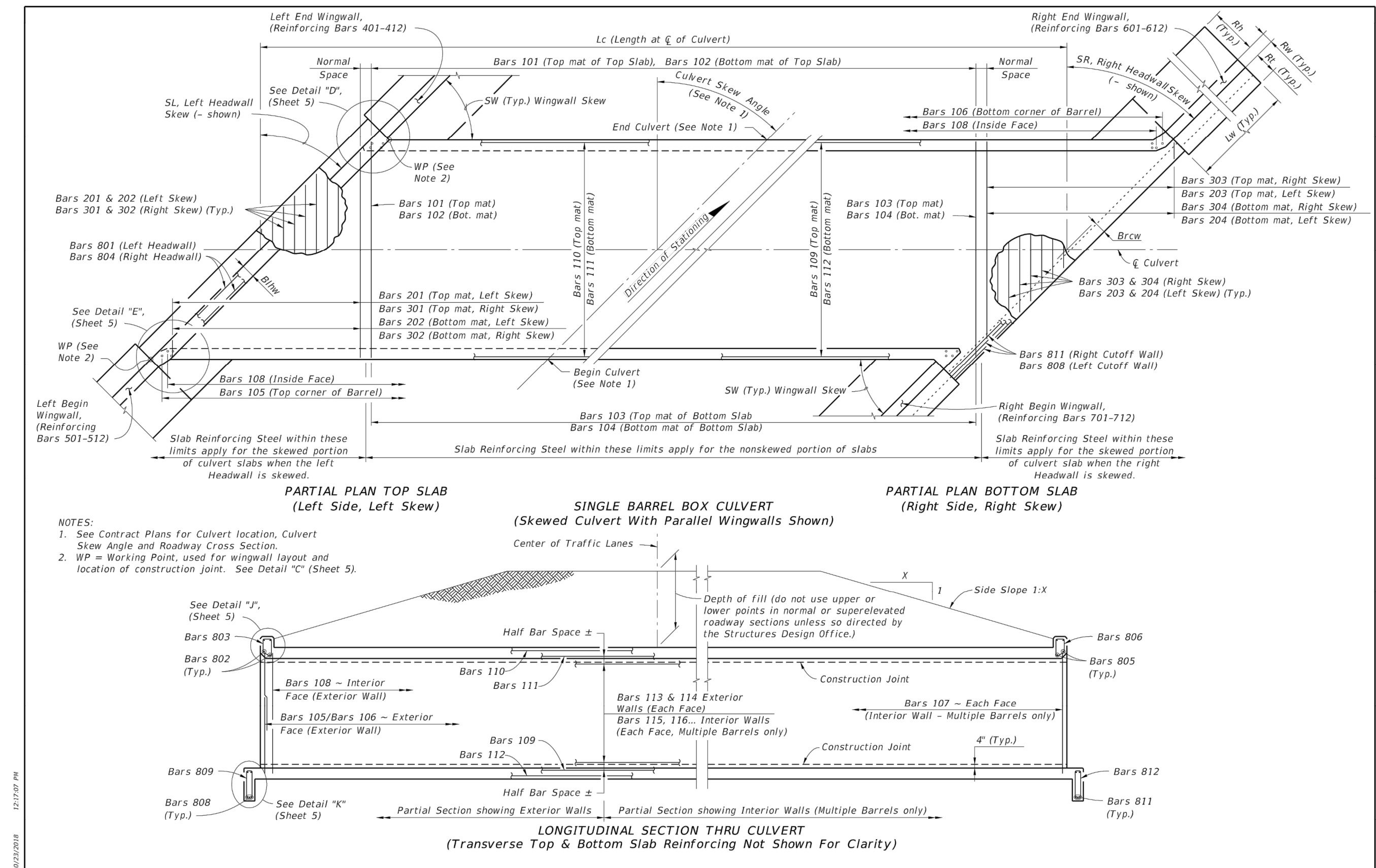
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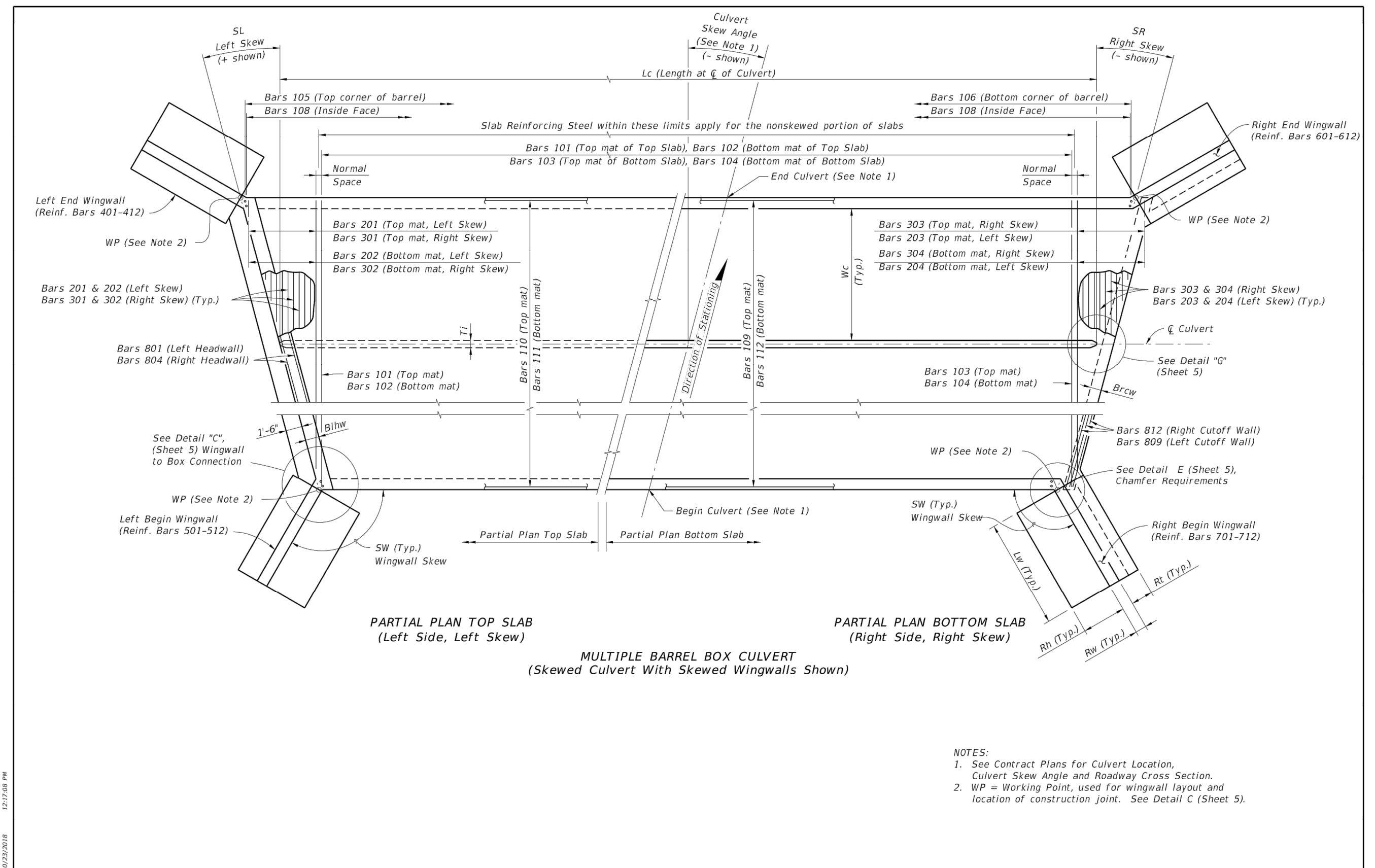
LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX	SHEET
11/01/16				400-289	1 of 8



LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX	SHEET
07/01/13				400-289	2 of 8



LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX	SHEET
01/01/07				400-289	3 of 8



LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX	SHEET
01/01/07				400-289	4 of 8

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
FDOT BOX CULVERT
DETAILS

Project Number:	215613796		
File Name:	13796-TITLE BLOCK		
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Dwn.	Chkd.	Dsgn.	YYMMDD
Drawing No.	C-507		
Revision	Sheet		



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By	Appl.	YJMM/DD
By	Appl.	YJMM/DD
By	Appl.	YJMM/DD
By	Appl.	YJMM/DD

NOTES:
 1. For small angles, the Contractor may elect to fill the area between the box and the wingwall footing with unreinforced concrete. For wingwall skew angles less than 90 degrees, field bend wingwall reinforcement as necessary while maintaining cover. No additional payment will be made for this work.
 2. Location of Construction Joint determined by WP at theoretical intersection of:
 - Soil Side Face of Headwall and outside face of Box Exterior Wall, for SW>90°;
 - Outside face of Wingwall and outside face of Box Exterior Wall, for SW<90°.
 3. Provide 6" chamfer when angle "A" is greater than 45°. Maintain minimum wall thickness. Field adjust reinforcing to maintain cover.
 4. Wingwall Skew Angles (SW) are measured from the adjacent box exterior wall to the wingwall.
 5. Turn or extend Wingwall Cutoff Wall as necessary to meet Box Cutoff Wall.
 6. Provide additional reinforcement in the top of the top slab below traffic railings to ensure a minimum area of 0.80 sq. in./ft. transverse reinforcing.
 * Included in the cost of the Traffic Railing.

LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX 400-289	SHEET 5 of 8
11/01/17	REVISION				

NOTES:
 1. The Box Culvert Data Tables and Reinforcing Bar List do not include the additional quantities needed for dowel connections or transitions from double walls of existing concrete box culverts; the cost for additional reinforcement and the thickened concrete wall in the transitional area shall be included in the costs for concrete and steel in the culvert extension.
 2. Cost for removal and disposal of material from existing headwalls, wingwalls and box, and cost of cleaning, straightening and extending or doweling longitudinal reinforcing steel shall be included in the cost for concrete and steel of the culvert extension.
 3. Remove existing concrete while avoiding damage to existing reinforcement. Clean and straighten existing reinforcement, lap and tie onto extension reinforcement.
 4. Dowel in #4 Bars @ 1'-0" max. spacing into wall/slab when there is a single mat of existing reinforcing steel, otherwise splice 1'-6" as shown for inside reinforcement. Use an Adhesive Bonding Material System in accordance with Specifications Section 416 & 937.
 5. Provide additional transverse bars for top and bottom slab, parallel and full width of any skewed joint connection when shown in the Plans.
 6. See Box Culvert Data Table notes in Plans for Connection Types allowed.

LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX 400-289	SHEET 6 of 8
01/01/12	REVISION				

NOTES:
 1. The Box Culvert Data Tables and Reinforcing Bar List do not include the additional quantities needed for dowel connections or transitions from double walls of existing concrete box culverts; the cost for additional reinforcement and the thickened concrete wall in the transitional area shall be included in the costs for concrete and steel in the culvert extension.
 2. Cost for roughening and cleaning existing headwalls, wingwalls and box, and cost of doweling longitudinal reinforcing steel shall be included in the cost for concrete and steel of the culvert extension.
 3. Remove existing concrete and reinforcing back to edge of any chamfers exceeding 1". Roughen and clean existing or exposed surface and coat with a Type A epoxy bonding compound in accordance with the manufacturer's recommendations.
 4. Dowel in #5 Bars @ 1'-0" max. spacing horizontally into center of wall/slab. Provide vertical dowels in footing to match size, alignment and spacing of outside vertical wall reinforcing. Use an Adhesive Bonding Material System in accordance with Specifications Section 416 & 937.
 5. Provide additional transverse bars for top and bottom slab, parallel and full width of any skewed joint connection when shown in the Plans.
 6. Remove top of existing headwall when necessary to provide 1'-0" clearance below finished grade. Saw cut full width and seal with Type F-2 epoxy compound to protect exposed reinforcing.
 7. See Box Culvert Data Table notes in Plans for Connection Types allowed.

LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX 400-289	SHEET 7 of 8
01/01/12	REVISION				

NOTES:
 1. Cost of Steel Grating to be included in cost of Box Culvert.
 2. All reinforcing shall be 2" clear for Slightly and Moderately Aggressive Environments, and 3" clear for Extremely Aggressive Environments.

LAST REVISION	DESCRIPTION	FY 2019-20 STANDARD PLANS	CONCRETE BOX CULVERT DETAILS	INDEX 400-289	SHEET 8 of 8
07/01/14	REVISION				

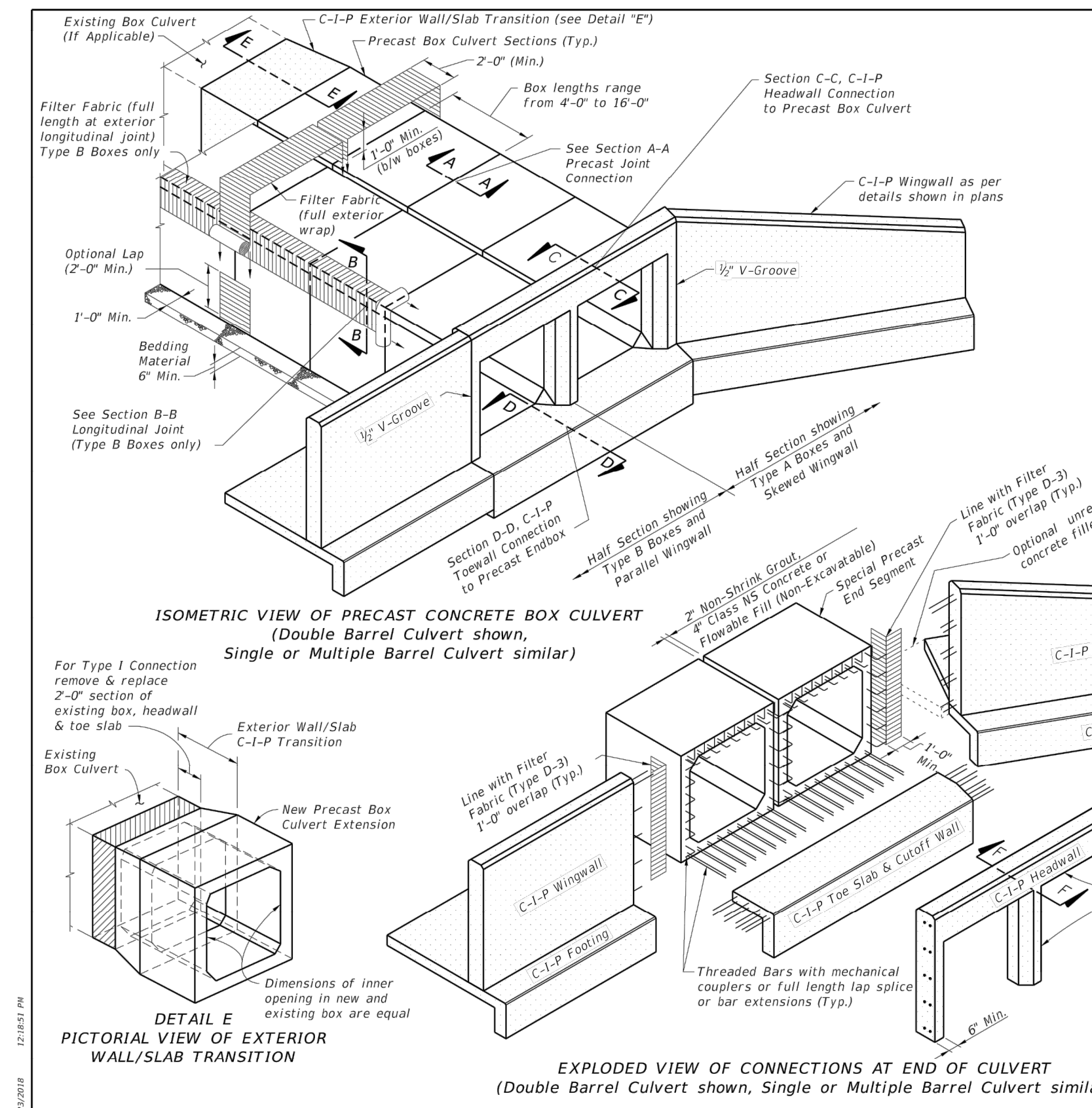
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Seal

Project Number: 215613796			
File Name: 13796-TITLE BLOCK			
JG	C8	AM	20.01.06
Dwn.	Chkd.	Dsgn.	YJMM/DD
Drawing No. C-508			
Revision Sheet			

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Revision	By	App'd.	Y/M/MD

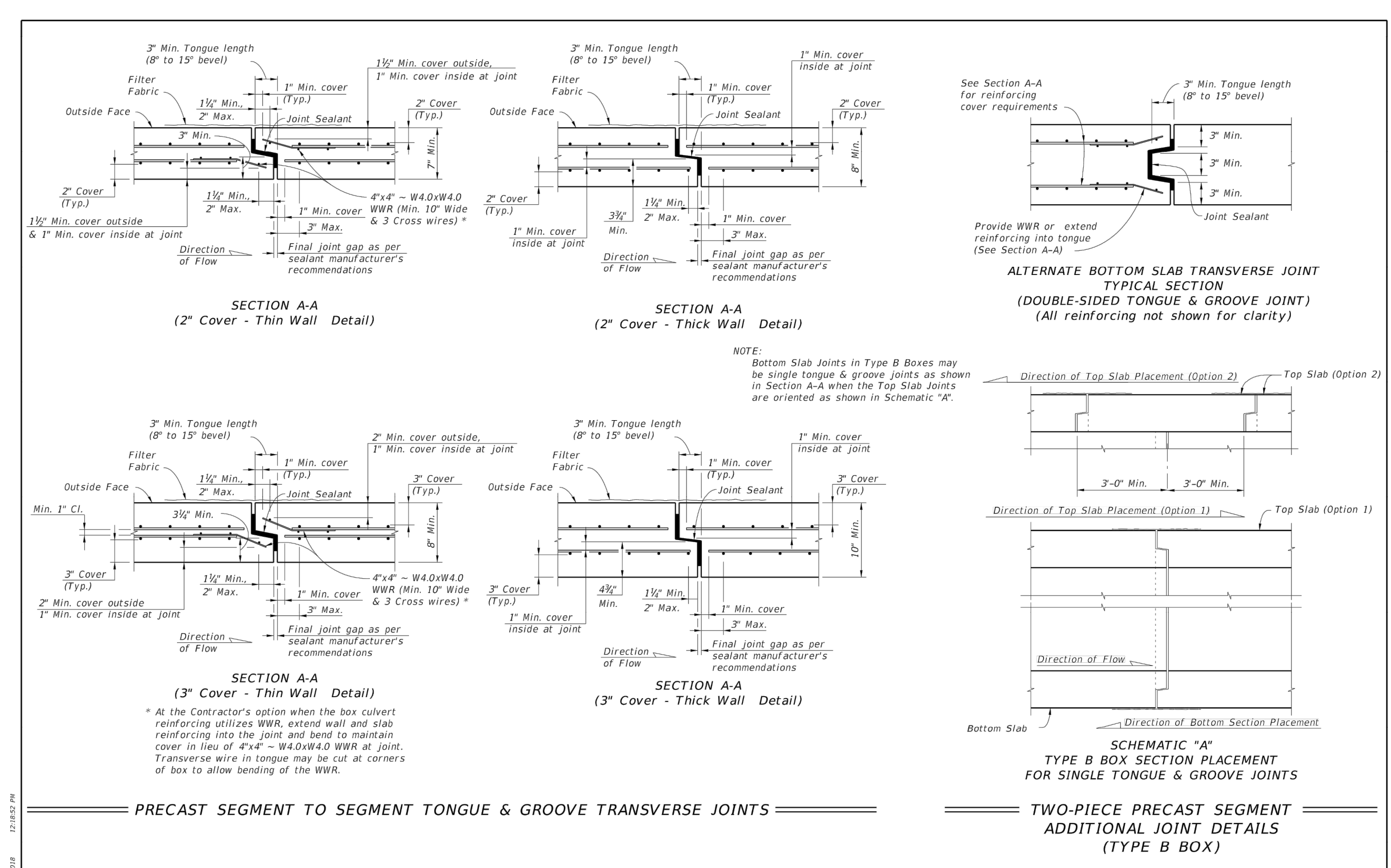


PERMITTED PRECAST ALTERNATE BOX SECTIONS				
TYPE	DESCRIPTION	SINGLE BARREL	MULTIPLE BARRELS	DESIGN NOTES
A	Single Cell Monolithic (Four Sided)			Index 400-292 or Contractor Design
B	Single Cell Two-Piece (Four Sided)			Contractor Design
C	Multicell Monolithic	Not Applicable		Contractor Design

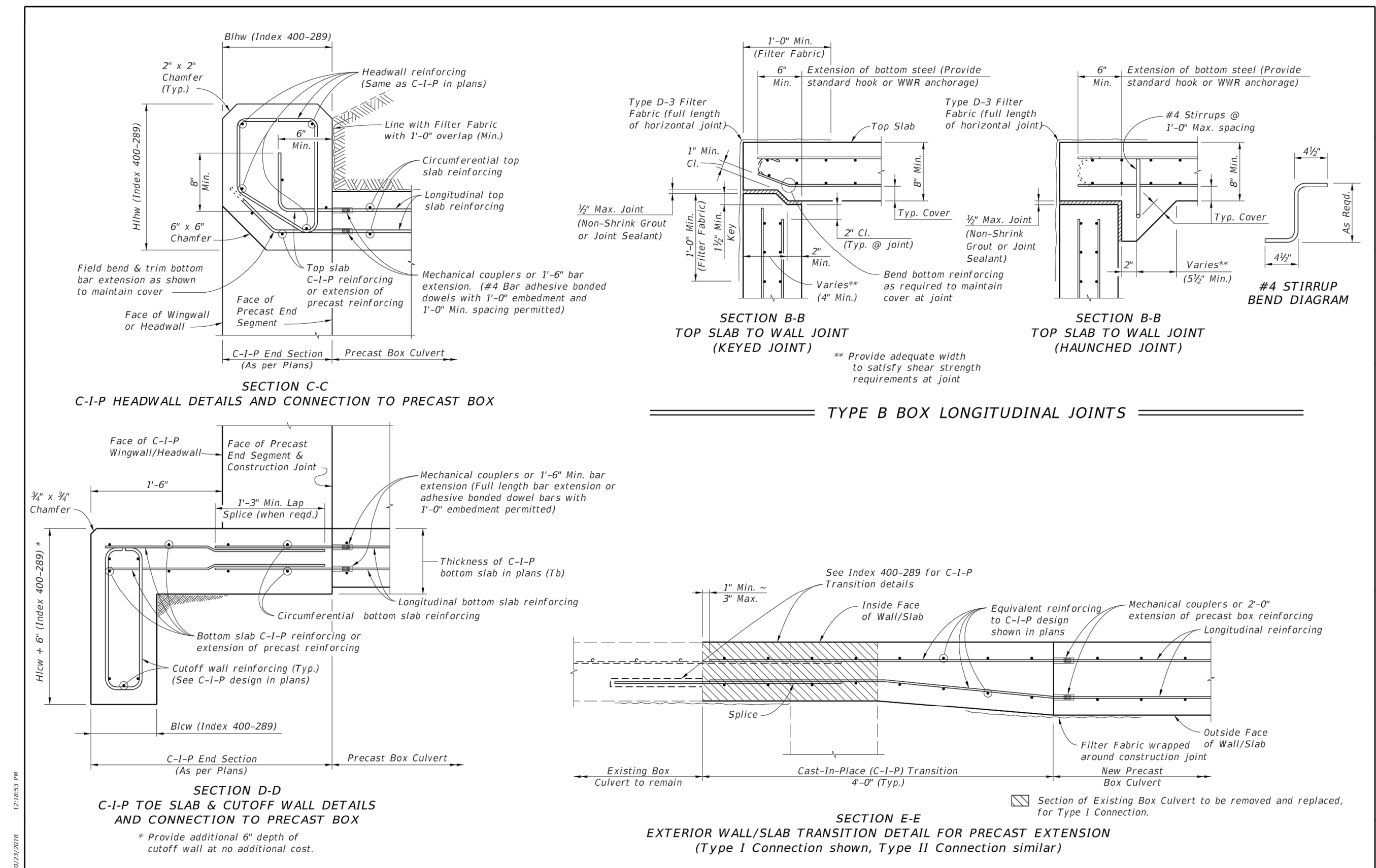
GENERAL NOTES:

- Specifications:
 - General:
 - FDOT Standard Specifications for Road and Bridge Construction, Section 410 (current edition, and supplements thereto).
 - Concrete (Precast):
 - Class III or Class II Modified (5,000 psi) for slightly aggressive environments.
 - Class IV (5,500 psi) for moderately to extremely aggressive environments.
 - Concrete (Cast-in-Place):
 - Class II (3,400 psi) for slightly aggressive environments.
 - Class IV (5,500 psi) for moderately to extremely aggressive environments.
- Reinforcing Steel:
 - Maintain minimum clearance of 2" for slightly and moderately aggressive environments or 3" for extremely aggressive environments, unless otherwise shown. Equal area substitution of welded wire (WWR) reinforcement is permitted.
- Work this Index with the Cast-In-Place Concrete Box Culvert Details and Data Tables shown in the plans, Index 400-289 and the Precast Concrete Box Culverts shown in the shop drawings.
- All joints between precast sections must be tongue & groove with joint sealant. Joints between cast-in-place & precast sections shall have longitudinal reinforcing extending from top, bottom & both side slabs of the precast box tied to the cast-in-place reinforcement. Single barrel culverts may have precast headwalls cast integrally with the end segment when approved by the Engineer.
- Extension of existing multiple barrel box culverts with multiple single cell precast box culverts is not permitted unless approved by the District Structures Engineer. Full transition details must be shown in the shop drawings when approved.
- Culverts larger than the specified size may be substituted with no additional payment to the Contractor. Substitution must be approved by the Engineer, minimum earth cover and invert elevations shown in the Contract Documents must be maintained.

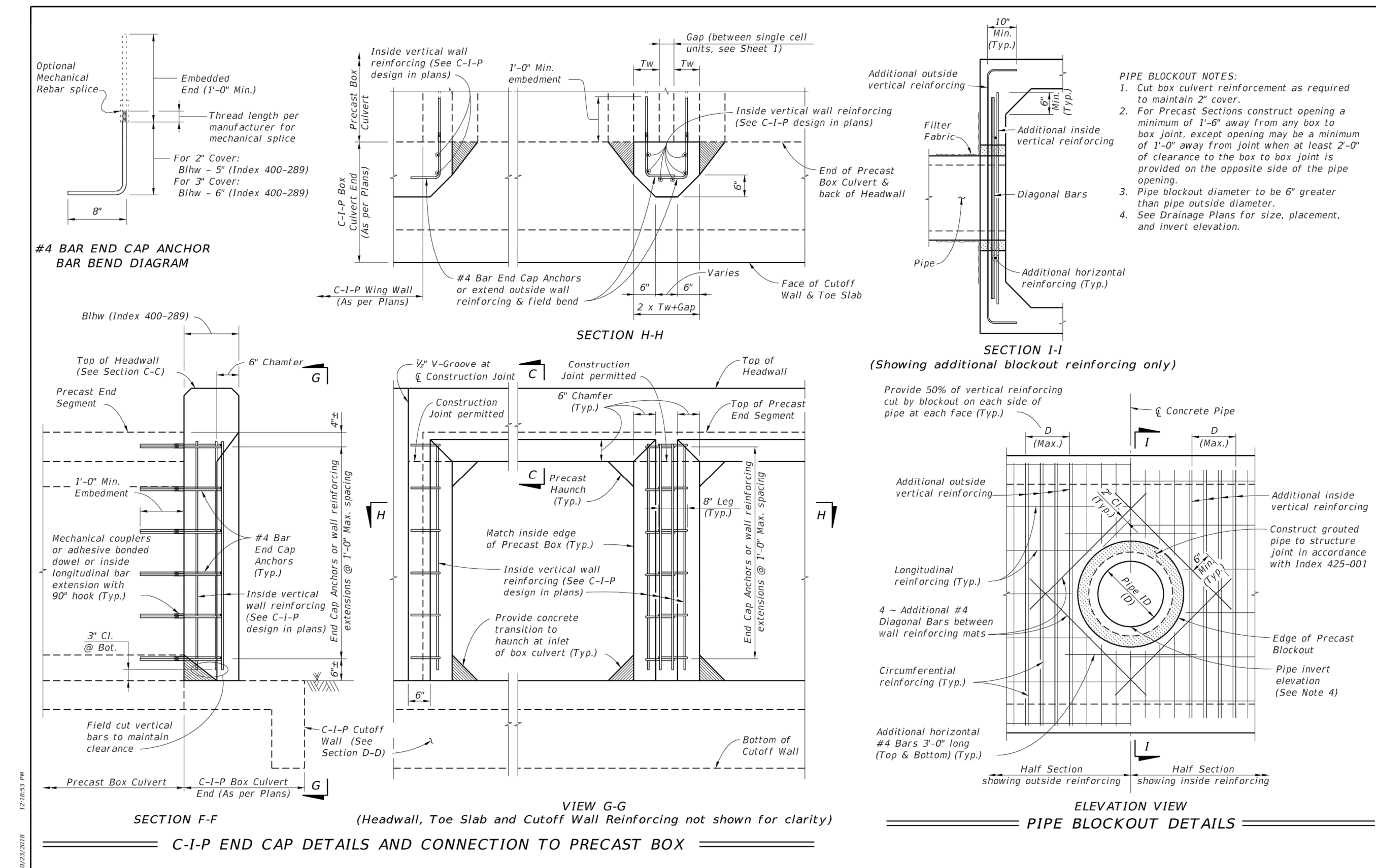
LAST REVISION	DESCRIPTION:	INDEX	SHEET
01/01/11	FY 2019-20 STANDARD PLANS	400-291	1 of 5



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LAST REVISION	DESCRIPTION:	INDEX	SHEET
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LAST REVISION	DESCRIPTION:	INDEX	SHEET
07/01/07	FY 2019-20 STANDARD PLANS	400-291	4 of 5

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Client/Project
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PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
FDOT BOX CULVERT
DETAILS

Project Number:	215613796		
File Name:	13796-TITLE BLOCK		
JG	CB	AM	20.01.06
Dwn	Chkcd	Dsgn	YYMMDD
Drawing No.	C-509		
Revision	Sheet		



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By	Appd.	YYMMDD
Revision		
	By	Appd.
		YYMMDD
ISSUED		

LINK SLAB TYPICAL SECTION
(Multiple Barrel Culvert shown, Single Barrel Culvert similar)

* Install dowels with an Adhesive Bonding Material System in accordance with Specification Section 416. The Contractor may substitute mechanical couplers in lieu of adhesive bonded dowels. Shift dowels to clear box culvert reinforcing.

LINK SLAB NOTES:

- Provide a Cast-In-Place Link Slab to ensure uniform joint opening of precast box culverts when the differential settlement shown in the plans exceeds the following limits, except that a Link Slab is not required for differential settlements less than 1/8".
$$\Delta Y \leq \frac{LW}{760 \times R \times W}$$

Where:
 ΔY = Maximum Long-Term Differential Settlement (ft.)
 R = Exterior height of Box Culvert (ft.)
 W = Length of Box Culvert Segments (ft.)
 L = Effective length for single curvature deflection (ft.)
- Extend Link Slab to back face of headwalls and to limits of existing box culverts for extensions.

ESTIMATED LINK SLAB QUANTITIES

ITEM	UNIT	QUANTITY
Class II or IV Concrete (Culvert)	CY/SF	0.0216
Reinforcing Steel (Roadway)	Lb./SF	1.52

NOTE: Estimated quantities are based on the plan area of precast box slabs, and are provided for information only. No additional payment will be made for Link Slabs where these are required for the precast box culverts.

BILL OF REINFORCING STEEL

MARK	SIZE	NO. REQ'D	LENGTH
L	4	2 per Barrel/ft.	1'-2"
M	4	As Req.	As Req.

REINFORCING STEEL BENDING DIAGRAMS

NOTES:

- All bar dimensions are out to out.
- Lap splice length for Bars 4M is 1'-4" minimum.

DESIGN NOTE:

- Link Slab required when joint openings from differential settlement exceed 1/8" as determined in Link Slab Note 1.

SCHEMATIC LONGITUDINAL SECTION (NEW CONSTRUCTION)

Long-Term Uniform Settlement, Minimum 1'-6" earth cover at edge of shoulder when Link Slab required, Roadway Embankment, L (Effective Length along ξ Box Culvert), W, R, ΔY .

SCHEMATIC LONGITUDINAL SECTION (WIDENING)

Long-Term Differential Settlement with negative curvature, Roadway Embankment, New Precast Box Culvert Extension, Existing Box Culvert, Point of reverse curvature, Top of existing embankment slope, Long-Term Differential Settlement with positive curvature, Effective Length along ξ box, L, ΔY .

VIEW I-J

Construction joints permitted at mid span of precast box segment, Precast Box Joint (Outside face), Bars 4M spacing (Symmetrical about ξ Jt.), Filter Fabric (Typ.), 7" Link Slab, Bars 4M, Precast Concrete Box, 1'-0" spacing (Max.), Dowel Bars 4L (Typ.) + Dowel Bars 4L spacing + (Symmetrical about ξ Jt.), 8", 3" Cl. (Typ.)

DIFFERENTIAL SETTLEMENT COUNTERMEASURES FOR PRECAST BOX CULVERTS

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 TALLAHASSEE, FL
**FDOT BOX CULVERT
 DETAILS**

Seal

Project Number: 215613796
File Name: 13796-TITLE BLOCK

JG C8 AM 20.01.06
Dwn. Chkg. Dsgn. YYMMDD

Drawing No. C-510

Revision Sheet

Revision	By	Appd.	YY.MM.DD

By:
 Appd:
 Issued

TYPE C
Recommended Maximum Pipe Size:
2'-0" Wall - 18" Pipe
3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)

TYPE D
Recommended Maximum Pipe Size:
3'-1" Wall - 24" Pipe
4'-1" Wall - 36" Pipe

TYPE E
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
4'-6" Wall - 36" Pipe

TYPE H (2 & 3-GRATE INLET)
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
6'-7" Wall - 1-60" Pipe
Or 2-24" Pipe (5=3-5)

TYPE H (4-GRATE INLET)
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
8'-9" Wall - 1-78" Pipe
Or 2-30" Pipe (5=4-3)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-0"	A12	0.20	12"	8"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-0"	A12	0.20	12"	8"
6'-10"	A6	0.20	6"	5"
10'-13"	A4	0.20	4"	3"
10'-15"	B5.5	0.24	5 1/2"	5"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	B5.5	0.24	5 1/2"	5"
5'-7"	C6.5	0.37	6 1/2"	6"
7'-15"	D4.5	0.53	4 1/2"	4"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	C3.5	0.37	3 1/2"	3"
5'-10"	D4.5	0.53	4 1/2"	4"

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TYPE H (2 & 3-GRATE INLET)
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
6'-7" Wall - 1-60" Pipe
Or 2-24" Pipe (5=3-5)

TYPE H (4-GRATE INLET)
Recommended Maximum Pipe Size:
3'-0" Wall - 24" Pipe
8'-9" Wall - 1-78" Pipe
Or 2-30" Pipe (5=4-3)

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-0"	A12	0.20	12"	8"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-0"	A12	0.20	12"	8"
6'-10"	A6	0.20	6"	5"
10'-13"	A4	0.20	4"	3"
10'-15"	B5.5	0.24	5 1/2"	5"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	A12	0.20	12"	8"
0'-7.5"	A6	0.20	6"	5"
7.5'-10"	B5.5	0.24	5 1/2"	5"
10'-15"	C6.5	0.37	6 1/2"	6"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	B5.5	0.24	5 1/2"	5"
5'-7"	C6.5	0.37	6 1/2"	6"
7'-15"	D4.5	0.53	4 1/2"	4"

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0'-5"	C3.5	0.37	3 1/2"	3"
5'-10"	D4.5	0.53	4 1/2"	4"

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CAST IRON GRATES

TYPE C
Approx. Weight 235 Lbs.

TYPE D
Approx. Weight 104 Lbs.

TYPE E
Approx. Weight 465 Lbs.

TYPE H (3-GRATE INLET)
Approx. Weight 725 Lbs.

TYPE H (4-GRATE INLET)
Approx. Weight 967 Lbs.

STEEL GRATES

TYPE C
Straight Bars 2" x 1/2"
Reticuline Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 104 Lbs.

TYPE D
Straight Bars 2" x 1/2"
Reticuline Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 104 Lbs.

TYPE E
Straight Bars 2" x 1/2"
Reticuline Bars 1 1/2" x 3/4"
Bands 2" x 1/2"
Approx. Weight 215 Lbs.

TYPE H (2-GRATE INLET)
Straight End-Bearing Bars 2" x 1/2"
Reticuline Bars 1 1/2" x 3/4"
Banding Bars 2" x 1/2"
Approx. Total Weight 310 Lbs.

TYPE H (4-GRATE INLET)
Straight End-Bearing Bars 2" x 1/2"
Reticuline Bars 1 1/2" x 3/4"
Banding Bars 2" x 1/2"
Approx. Total Weight 388 Lbs.

GENERAL NOTES

- These inlets are suitable for bicycle traffic and are to be used in ditches, medians and other areas subject to infrequent traffic loadings but are not to be placed in areas subject to any heavy wheel loads. These inlets may be placed in areas subject to occasional pedestrian traffic such as landscaped areas and pavement areas where pedestrians can walk around the inlet.
- Inlets subject to minimal debris should be constructed without slots. Where debris is a problem inlets should be constructed with slots. Slotted inlets located within roadway clear zones and areas subject to pedestrians shall have traversable slots. The traversable slot modification is not adaptable to Inlet Type H. Slots may be constructed at either or both ends as shown on plans. Traversable slots shall not be used in areas subject to occasional bicycle traffic.
- Steel grates are to be used on all inlets where bicycle traffic is anticipated. Steel grates are to be used on all inlets with traversable slots. Either cast iron or steel grates may be used on inlets without slots where bicycle traffic is not anticipated. Either cast iron or steel grates may be used on all inlets with non-traversable slots. Subject to the selection described above, when Alternate G grate is specified in the plans, either the steel grate, hot dip galvanized after fabrication, or the cast iron grate may be used, unless the plans stipulate the particular type.
- Recommended maximum pipe sizes shown are for concrete pipe. Size for other types of pipe must be checked for fit.
- All exposed edges and corners shall be 3/8" chamfer or tooled to 1/2" radius.
- Concrete inlet pavement to be used on inlets without slots and inlets with non-traversable slots only when called for in the plans; but required on all traversable slot inlets. Cost to be included in contract unit price for inlets. Quantities shown are for information only.
- Traversable slots constructed in existing inlets shall be paid for as inlets partial. For conversion work and method of payment see "TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS."
- Sodding to be used on all inlets not located in paved areas and paid for under contract unit price for Performance Turf, SY.
- For supplementary details see Index 425-001.
- All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. Bars to be cut or bent for 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.

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TRAVERSABLE SLOTS

Inlet	Pavement		Sod	
	Single Slot SY	Double Slot CY	Single Slot SY	Double Slot SY
C	4.87	0.77	6.16	0.93
D	5.99	0.91	7.70	1.10
E	5.88	0.91	7.37	1.08

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PAVT. AND SOD

Inlet	Sod Sy	Pavt. Cy	Sod Sy
C	6	0.30	8
D	6	0.36	9
E	7	0.37	9
H	8	0.45	11

PAVEMENT AND SODDING QUANTITIES FOR TRAVERSABLE SLOTS

Inlet	Pavement		Sod	
	SY	CY	SY	CY
C	4.87	0.83	6.16	1.05
D	5.99	1.01	7.70	1.30
E	5.88	0.99	7.37	1.24

TRAVERSABLE SLOTS FOR EXISTING INLETS

NOTE: For plan view and additional details see Sheet 4 of 7. For payment see General Notes Nos. 6 and 7, Sheet 3 of 7.

LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2019-20 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX 425-052	SHEET 5 of 7
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DESIGN NOTES FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS

- The general purpose of these conversions is to remove the hazard of the protruding inlet top, while not creating a hazard by depressing the top too deeply.
- The corrective procedure depends on the approach ditch grade and hydraulic requirements of the site. The selection of the appropriate case depends on the relationship between inlet top and ditch elevation, and, on the vertical clearance between the top of the uppermost pipes and the grate. The purpose for the Case 1 conversion is to add the traversable slot to an existing inlet where top removal, change in grate elevation and ditch transitions are not required. Case 2 will normally be applicable to ditches with flatter grades adjoining the inlet. Case 3 will normally be applicable to ditches with steeper grades adjoining the inlet where build up of the existing ditch is acceptable.
- The designer shall stipulate in the plans which case is to be constructed at each individual inlet location.

Where the existing inlet top is above the existing ditch (Case 2) but borrow material will be required to adjust the ditch (Case 3), and vertical clearance or other conditions do not prevent removal of the inlet top, the designer should call for Case 2. The designer shall determine if ditch reconstruction is required more than 35 feet beyond any traversable slot side and shall include separate pay items in the plans to cover the cost for that portion of required ditch reconstruction exceeding the 35 foot limit. The designer shall also determine whether ditch pavement is required for ditch restoration within the 35 foot limit and include that pavement under a pay item separate from the inlets partial.

When the detention ditch concept is to be used with Case 3, the designer shall stipulate 'Case 3 (Detention)' in the plans.

The designer shall determine whether right soil or other conditions at each individual inlet indicates the need for underdrain in Case 3 conversions and shall call for Underdrain, Type 1 in the plans.

METHOD OF PAYMENT FOR TRAVERSABLE SLOT INLETS (PARTIAL) FOR EXISTING INLETS

- Existing inlets converted to traversable slot tops under Cases 1, 2 and 3 shall be paid for as inlets partial, each. Case shall not be included in the pay item description.
- All ditch reconstruction work within 35 feet of each traversable slot conversion, whether required by these details or as a direct result of the conversion, shall be included as a part of the partial cost. Reconstruction work shall include excavation and removal of surplus materials or borrow materials in place, grading, compaction, shaping and restoration of disturbed turf. Sodding, ditch pavement and underdrain are not included as part of the inlet partial cost and are to be paid for separately.
- Concrete inlet pavement and sodding shall be in accordance with the sections on this detail and with the Plan on Sheet 4 and Sections AA, BB and CC (as Case 1) and tabular quantities on Sheet 5.
- Unit price and payment shall constitute full compensation for inlet conversion (including concrete inlet paving and replacement grate(s)), ditch reconstruction, restoration of disturbed turf, and shall be paid for under the contract price for Inlets (DOT Bot) (Type __) (Partial), each.

Sodding shall be paid for under the contract unit price for Performance Turf, SY. Ditch pavement shall be paid for separate from the inlet by pavement types and units(s) as called for in the plans.

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TOP SLAB REINFORCING SCHEDULE

SCHEDULE	GRADE 60 (BARS) OR 65 KSI & 70 KSI (WIRE FABRIC)	In./ft.
A		0.20
B		0.24
C		0.30
D		0.33
E		0.73
F		1.06
G		1.45

TOP SLAB WITH CENTERED OPENING

SLAB DEPTH	SLAB THICKNESS	REINFORCING (2 WAYS) SCHEDULE
≥0.5'-4'	9 1/2"	C
SIZE: 5'-0"		
≥0.5' < 3'	9 1/2"	C
3'-0'-4'	9 1/2"	D
SIZE: 6'-0"		
0.5' < 8'	9 1/2"	B
8' < 18'	9 1/2"	C
18' < 30'	9 1/2"	C
30' < 37'	9 1/2"	E
37'-40'	9 1/2"	G
SIZE: 8'-0"		
≥0.5' < 9'	11 1/2"	C
9' < 15'	11 1/2"	D
15' < 23'	11 1/2"	E
23' < 33'	11 1/2"	E
33'-40'	11 1/2"	G

PIPE OPENING SCHEMATIC

LAST REVISION 11/01/17	DESCRIPTION: FDOT FY 2019-20 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E AND H	INDEX 425-052	SHEET 7 of 7
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Project Number: 215613796
File Name: 13796-TITLE BLOCK

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Drawing No. C-512
Revision Sheet
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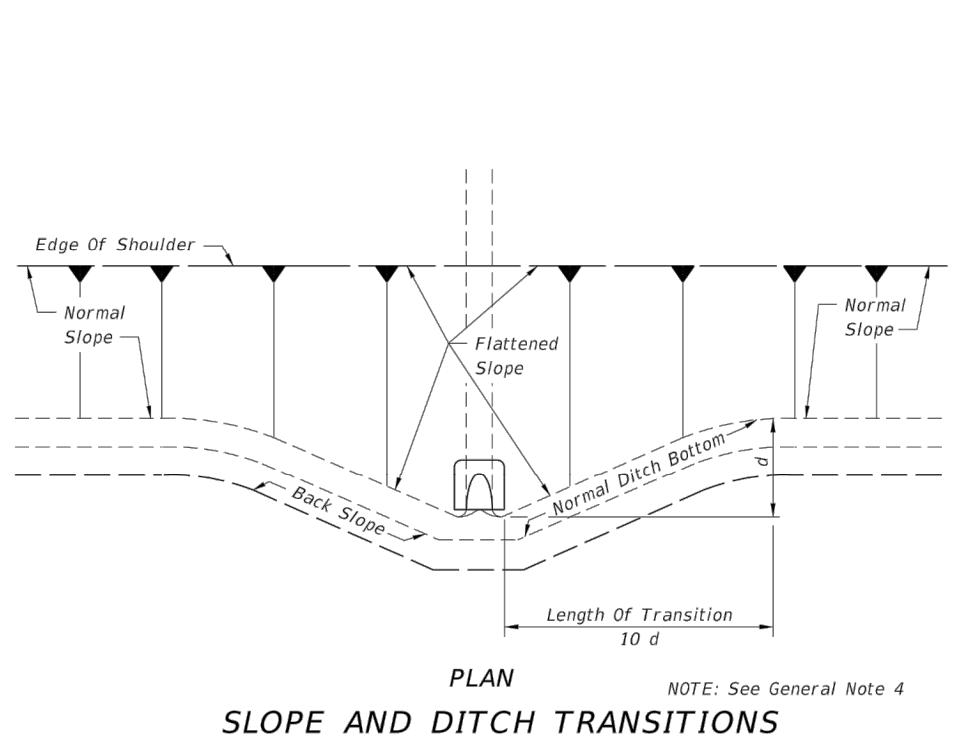
QUANTITIES FOR 3" THICK CONCRETE SLABS (CY)

Table with columns for Round-Concrete (Single, Double, Triple, Quad) and various pipe diameters (15" to 72").

Table with columns for Round-CMP (Single, Double, Triple, Quad) and various pipe diameters (15" to 72").

Table with columns for CMP-ARCH (Single, Double, Triple, Quad) and various pipe diameters (17" to 71").

Table with columns for Elliptical-Concrete (Single, Double, Triple, Quad) and various pipe diameters (12" to 58").

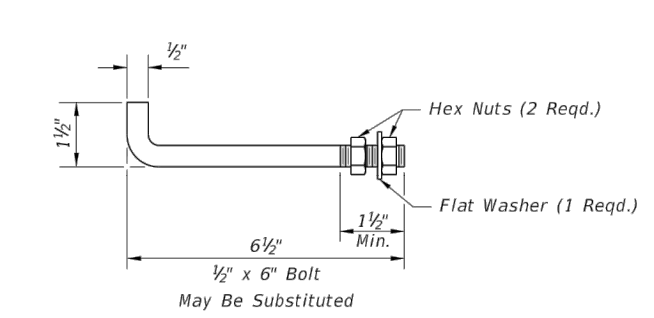
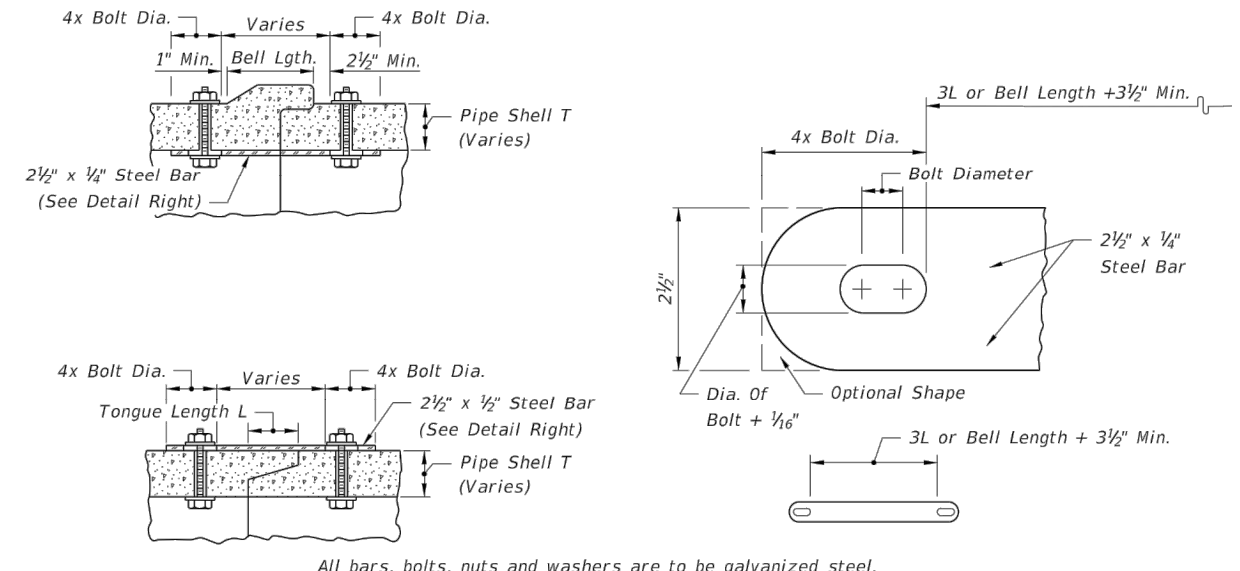


GENERAL NOTES

- 1. Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of cross drain pipe; corrugated steel pipe mitered end sections may be used with any type of cross drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of cross drain pipe except steel pipe. When bituminous coated metal pipe is specified for cross drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the cross drain pipe, construct a concrete jacket in accordance with Index 430-001.

DESIGN NOTES

- 1. Mitered end sections for pipe sizes 15", 18" and 24" round or equivalent pipe arch or elliptical pipe are permitted within the clear zone. When the slope intersection permits, the mitered end section may be located with the culvert opening as close as 8' beyond the outside edge of the shoulder.



CONCRETE PIPE CONNECTOR

ANCHOR DETAIL

All bars, bolts, nuts and washers are to be galvanized steel. Bolt diameters shall be 3/8" for 15" to 30" pipe and 1/2" for 42" to 72" pipe. Two connectors required per joint, located 60° right and left of bottom center of pipe. Bolt holes in pipe shell are to be drilled.

Holes in the mitered end pipe are to be drilled or punched; burning not permitted.

Table with columns: LAST REVISION 11/01/17, DESCRIPTION, FDOT FY 2019-20 STANDARD PLANS, CROSS DRAIN MITERED END SECTION, INDEX 430-021, SHEET 5 of 6.

Table with columns: LAST REVISION 11/01/17, DESCRIPTION, FDOT FY 2019-20 STANDARD PLANS, CROSS DRAIN MITERED END SECTION, INDEX 430-021, SHEET 6 of 6.

Revision table with columns: Revision, By, Appd., Issued.

Revision table with columns: Revision, By, Appd., Issued

Dimensions & Quantities table for round concrete pipe. Includes top view and section diagrams for single and multiple pipe configurations. Table columns include dimensions (D, X, A, B, C, E, F, G, H, M, N) and material quantities (Grate Sizes, Concrete, Sodding).

Dimensions & Quantities table for round corrugated metal pipe. Includes top view and section diagrams for single and multiple pipe configurations. Table columns include dimensions (D, X, A, B, C, E, F, G, H, M, N) and material quantities (Grate Sizes, Concrete, Sodding).

Dimensions & Quantities table for corrugated metal pipe-arch. Includes top view and section diagrams for single and multiple pipe configurations. Table columns include dimensions (Span, Rise, X, A, B, C, E, F, G, H, M, N) and material quantities (Grate Sizes, Concrete, Sodding).

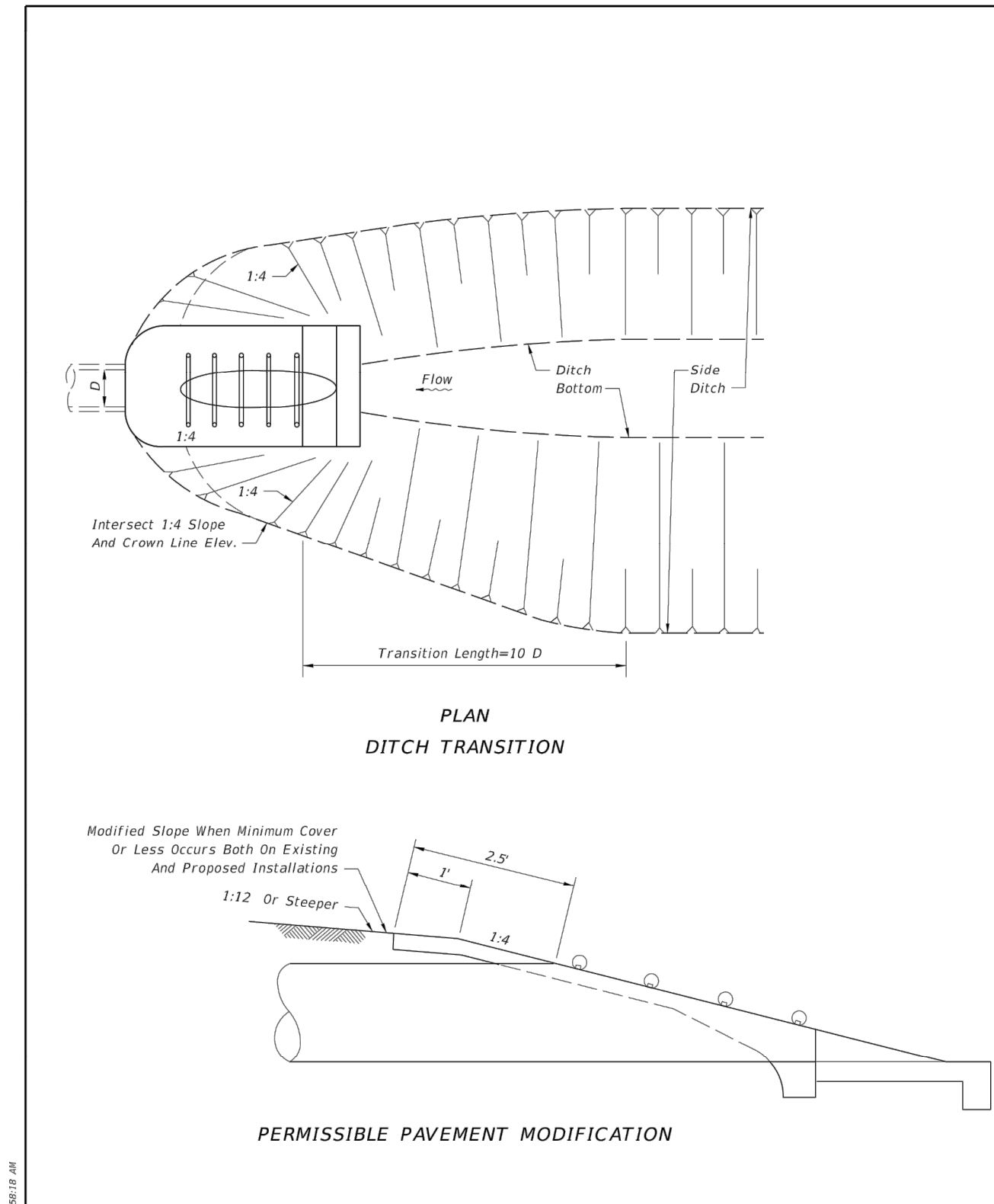
Dimensions & Quantities table for elliptical concrete pipe. Includes top view and section diagrams for single and multiple pipe configurations. Table columns include dimensions (Rise R, Span S, X, A, B, C, E, F, G, H, M, N) and material quantities (Grate Sizes, Concrete, Sodding).

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
FOOT DRAINAGE
DETAILS

Project Number: 215613796
File Name: 13796-TITLE BLOCK
Revision Sheet

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 P:\3616.dwg
 10/24/2018



GENERAL NOTES

- Unless otherwise designated in the plans, concrete pipe mitered end sections may be used with any type of side drain pipe; corrugated steel pipe mitered end sections may be used with any type of side drain pipe except aluminum pipe; and, corrugated aluminum mitered end sections may be used with any type of side drain pipe except steel pipe. When bituminous coated metal pipe is specified for side drain pipe, construct the mitered end sections with like pipe or concrete pipe. When the mitered end section pipe is dissimilar to the side drain pipe, construct a concrete jacket in accordance with Index 430-001.
- Use either corrugated metal or concrete mitered end sections for corrugated polyethylene pipe (HDPE), polyvinyl-chloride pipe (PVC) and polypropylene pipe (PPR). When used in conjunction with corrugated mitered end sections, make connection using either a formed metal band specifically designated to join HDPE or PVC pipe, with metal pipe or other coupler approved by the State Drainage Engineer. When used in conjunction with a concrete mitered end sections, concrete jacket constructed in accordance with Index 430-001.
- Select lengths of concrete pipe that avoid excessive connections in the assembly of the mitered end section.
- Repair corrugated metal pipe galvanizing that is damaged during beveling and perforating.
- Prior to placing concrete slab apply a bituminous coating to any portion of corrugated metal pipe in direct contact with concrete. Extend the coating 12" beyond the concrete slab.
- When existing multiple side drain pipes are spaced other than the dimensions shown in this Index, have nonparallel axes, or non-uniform sections, either construct the mitered end sections separately as single pipe or collectively as multiple pipe end sections as directed by the Engineer.
- Class NS concrete cast-in-place reinforced slabs are required for all sizes of side drain pipes.
- Install grates on all round pipes 30" or greater, pipe-arches 35"x24" or greater, and elliptical pipe 19"x20" or greater, unless excluded in the Plans. Install grates on smaller size pipes only when called for in the Plans. Omit the lower grate on the downstream end of mitered end sections along divided highways.
- Use Schedule 80 pipe for the lower grate on all traffic approach ends and Schedule 40 pipe for all remaining grates. Fabricate the grates from ASTM A53, Grade B, black steel pipe and hot dip galvanize after fabrication in accordance with ASTM A123 for all corrosive environments.

DESIGN NOTES

- Do not use grates until the debris transport potential has been evaluated by the drainage engineer and appropriate adjustments made. Ditch grades in excess of 3% or pipe with less than 1.5' of cover and grades in excess of 1% will require such an evaluation (General Note 10).
- The design engineer must determine and designate in the plans which alternate types of mitered end section will not be permitted. Restrict use based on corrosive or structural requirements.
- Contact the District Drainage Engineer for possible alternate treatment of side drain mitered end sections where a minimum spacing of 30' will not result between the toe points of the mitered end sections.
- Provide ditch transitions on all grades in excess of 3%.

NOTES & INFORMATION

LAST REVISION 11/01/17	DESCRIPTION: FY 2019-20 STANDARD PLANS	INDEX 430-022	SHEET 5 of 7
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Drain Size	s	n	L	La
CONCRETE PIPE (ROUND)				
15"	3	4	4'-0"	4'-11"
18"	4	5	5'-2"	6'-1"
24"	6	7	7'-6"	8'-5"
30"	7	8	8'-6"	9'-7"
36"	9	10	11'-0"	11'-11"
42"	11	12	13'-4"	14'-3"
48"	13	14	15'-8"	16'-7"
54"	14	15	16'-10"	17'-9"
60"	16	17	19'-2"	20'-1"

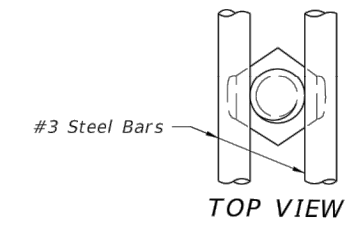
Drain Size	s	n	L	La
ELLIPTICAL CONCRETE PIPE				
12"x18"	2	3	2'-10"	3'-9"
14"x23"	3	4	4'-0"	4'-11"
19"x30"	4	5	5'-2"	6'-1"
24"x38"	5	6	6'-4"	7'-3"
29"x45"	7	8	8'-8"	9'-7"
34"x53"	8	9	9'-10"	10'-9"
38"x60"	10	11	12'-2"	13'-1"
43"x68"	11	12	13'-4"	14'-3"
48"x76"	13	14	15'-8"	16'-7"
53"x83"	14	15	16'-10"	17'-9"
58"x91"	15	16	18'-0"	18'-11"

Drain Size	s	n	L	La
CORRUGATED METAL PIPE (ARCH)				
17"x13"	1	2	1'-8"	2'-7"
21"x15"	2	3	2'-10"	3'-9"
28"x20"	4	5	5'-2"	6'-1"
35"x24"	5	6	6'-4"	7'-3"
42"x29"	6	7	7'-6"	8'-5"
49"x33"	7	8	8'-8"	9'-7"
57"x38"	9	10	11'-0"	11'-11"
64"x43"	10	11	12'-2"	13'-1"
71"x47"	12	13	14'-0"	15'-5"

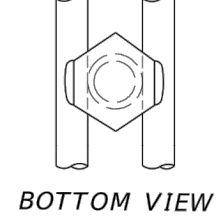
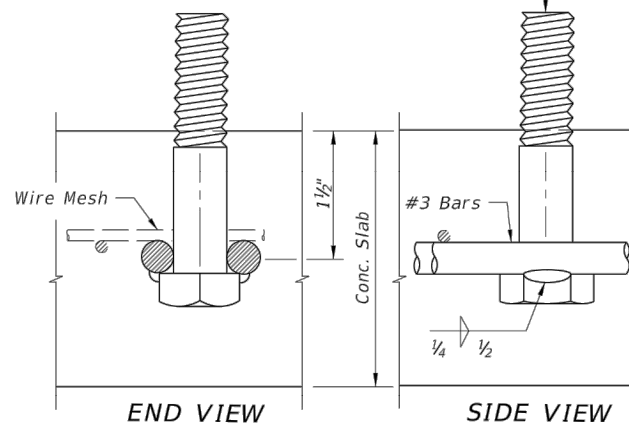
Note: 3/8" x 3" bolts are standard for all grate fasteners, except when the contractor elects to use the slotted upper holes for the intermediate fasteners on multiple drain pipes, which will require the following bolt lengths:

Grate Size (Std. & X-Stop)	Bolt Length
2 1/2"	5 3/4"
3"	6"
3 1/2"	6 1/2"
4"	7"

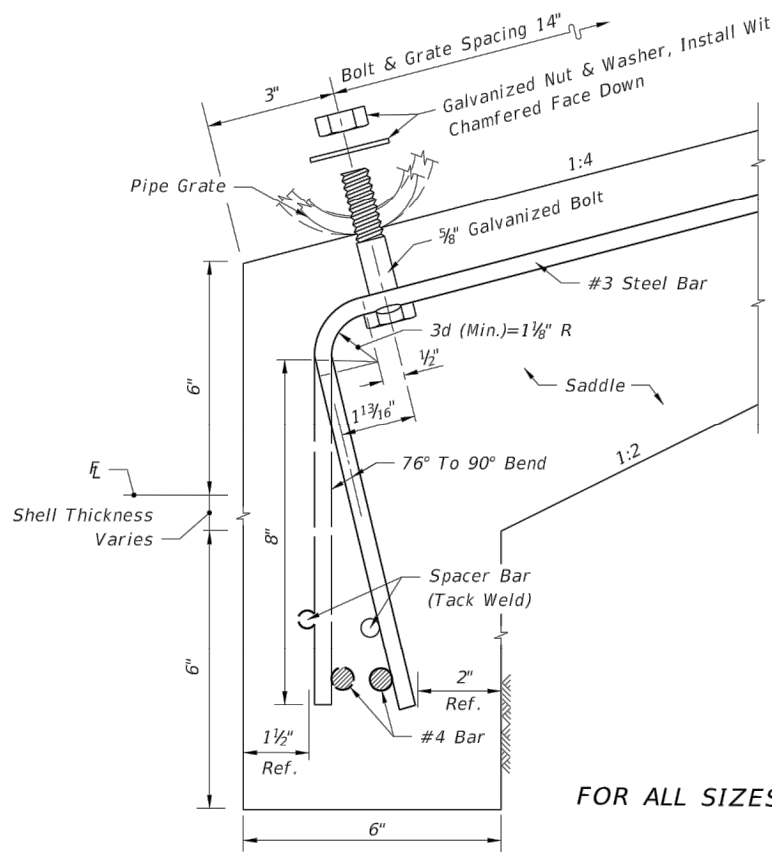
** To be used only when grates are called for in the plans.
 *** 1974 AASHTO Pipe Arch Sizes.



3/8" Galvanized Bolt Hex Head Bolt Shown; Either Hex Head Or Square Head Bolt May Be Used, Only Hex Nut To Be Used.

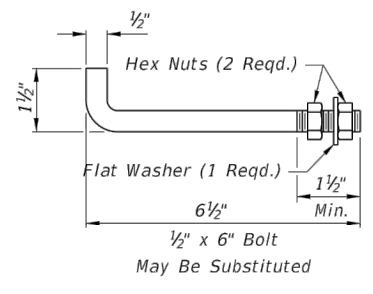


The specified weld shall be made when the fabricated unit is subject to hazardous hauls and repeated handling. Tack welds are permitted for local or job site fabrication. Galvanizing over welded surface not required.



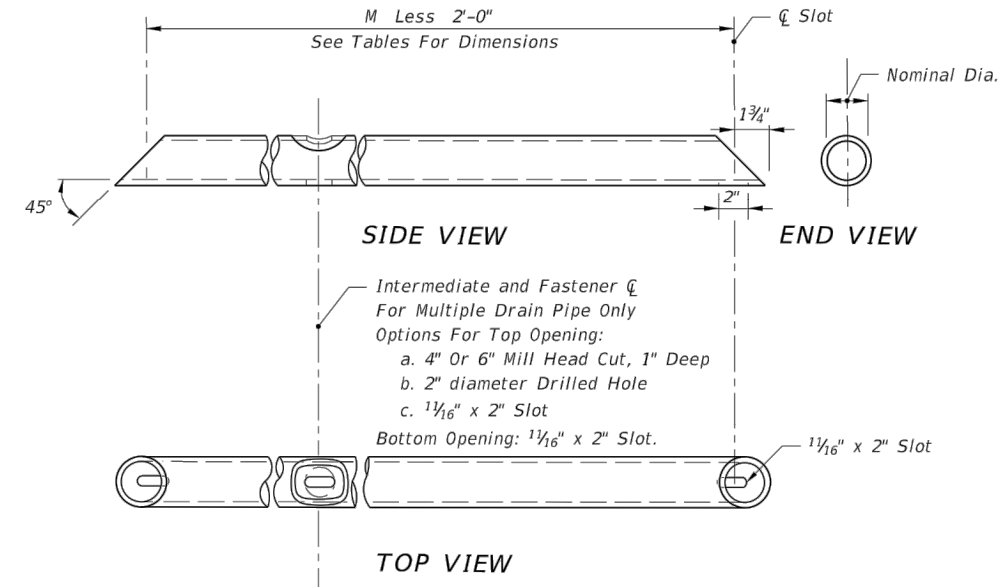
FOR ALL SIZES OF SINGLE AND MULTIPLE DRAIN PIPE FASTENER UNIT

DETAILS FOR CONCRETE & CORRUGATED METAL PIPE



Notes:
 Anchors required for CMP only.
 Anchor, washer and nuts to be galvanized steel.
 Bend anchor where required to center in concrete slab.
 Damaged surfaces to be repaired after bending.
 Anchors are to be spaced a distance equal to four (4) corrugations.
 Place the anchors in the outside crest of corrugation.
 Flat washer to be placed on inside wall of pipe.
 Holes in the mitered end pipe are to be drilled or punched; burning not permitted.

ANCHOR DETAIL

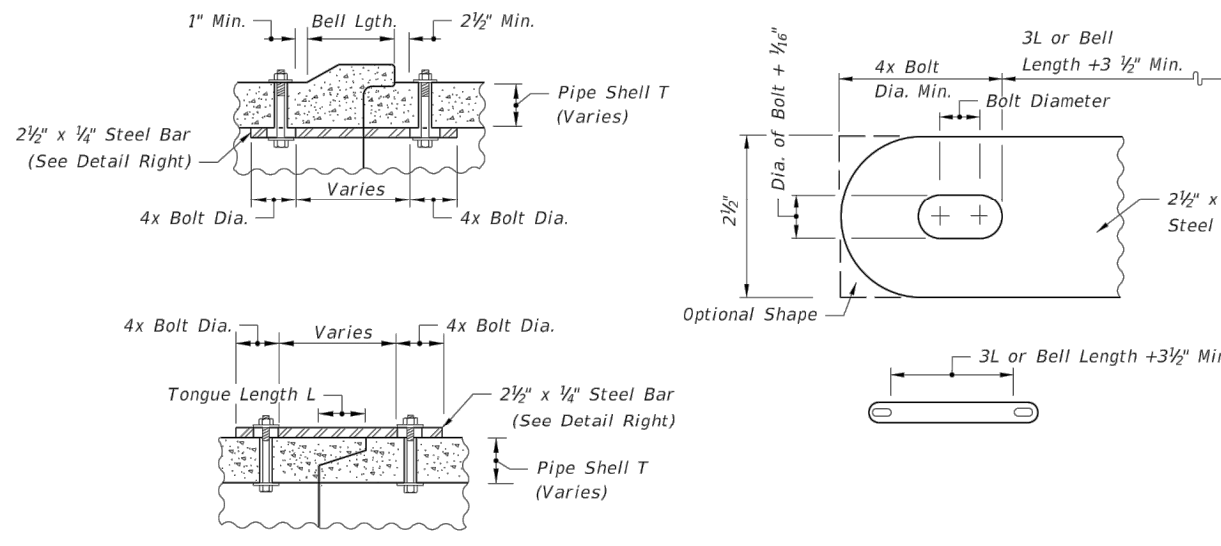


FOR SINGLE & MULTIPLE DRAIN PIPE GRATE DETAIL

See General Notes, Sheet 7.

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All bars, bolts, nuts and washers are to be galvanized steel.
 Bolt diameters shall be 1/2" for 15" to 36" pipe and 3/8" for 42" to 60" pipe.
 Two connectors required per joint, located 60° right and left of bottom center of pipe.
 Bolt holes in pipe shell are to be drilled.

CONCRETE PIPE CONNECTOR DETAIL

DETAILS FOR CONCRETE & CORRUGATED METAL PIPE

Revision	By	Appd.	Issued
		YJAW/DD	

Attachment 1
Stantec
 2315 Killebrew Center Blvd., Suite 102
 TALLAHASSEE, FL 32309
 www.stantec.com C.A. No. 270.13
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MERIDIAN ROAD
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 TALLAHASSEE, FL
FOOT DRAINAGE
DETAILS

Project Number: 215613796
 File Name: 13796-TITLE BLOCK

JG	CB	AM	20.01.06
Dwn.	Chkcd.	Dsgn.	YJAW/DD

 Drawing No. **C-516**
 Revision Sheet
 0 of

Table with columns: Revision, Issued, App'd, Yr, App'd, Yr. Includes revision history entries.

DATA AND ESTIMATED QUANTITIES FOR ONE ENDWALL

ROUND CONCRETE AND CORRUGATED METAL PIPE

Table with columns: D, Opening Area (SF), Dimensions (A-G, S, X), Class I Concrete (CY) (Single, Double, Triple, Quadruple). Includes data for Round Concrete and Corrugated Metal Pipe.

CORRUGATED METAL PIPE ARCH

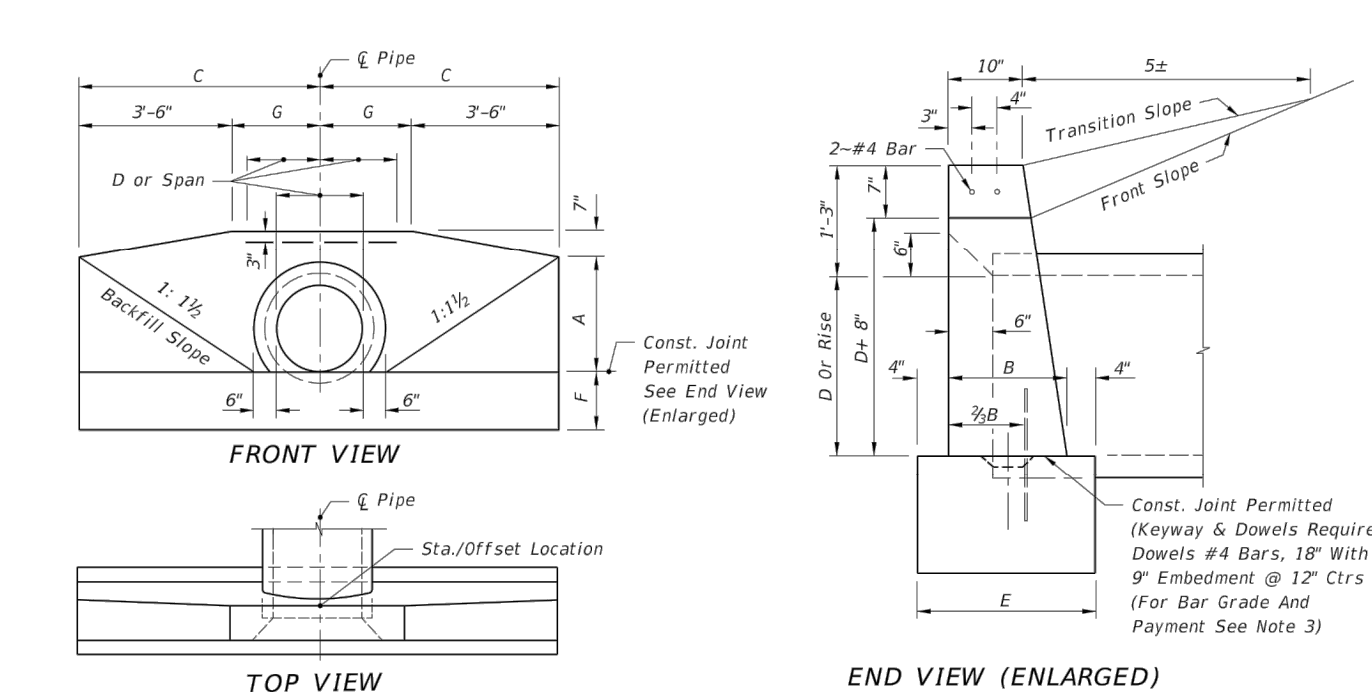
Table with columns: Span, Rise, Opening Area (SF), Dimensions (A-G, S, X), Class I Concrete (CY) (Single, Double, Triple, Quadruple), Span, Rise, Approx. Equiv. Round Pipe. Includes data for Corrugated Metal Pipe Arch.

CONCRETE ELLIPTICAL PIPE

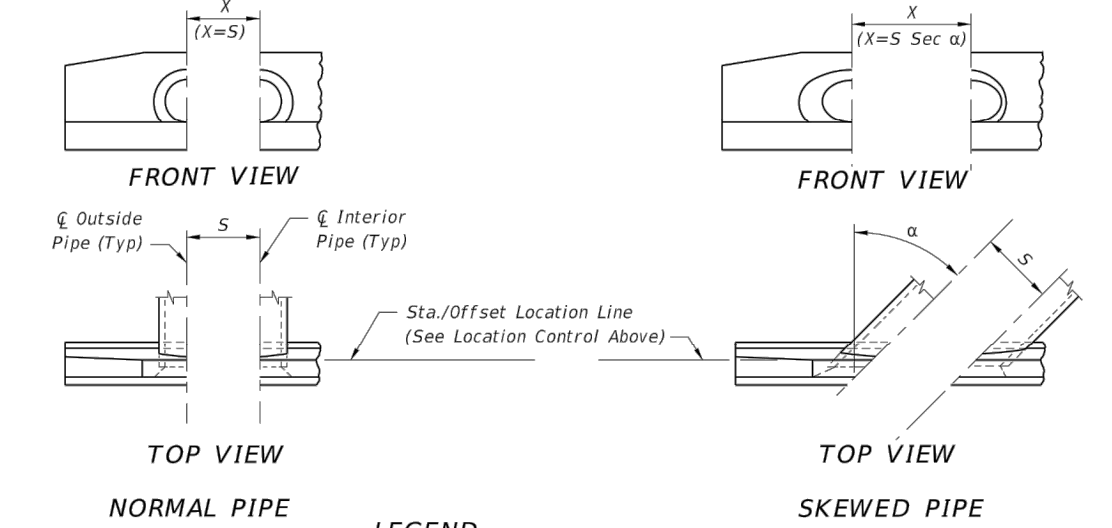
Table with columns: Rise, Span, Opening Area (SF), Dimensions (A-G, S, X), Class I Concrete (CY) (Single, Double, Triple, Quadruple), Rise, Span, Approx. Equiv. Round Pipe. Includes data for Concrete Elliptical Pipe.

GENERAL NOTES

- 1. Endwall dimensions, locations and positions are for round and elliptical concrete pipe and for round and pipe-arch corrugated metal pipe. Round concrete pipe shown.
2. Front slope and ditch transitions shall be in accordance with Index 430-001.
3. Endwalls may be cast in place or precast concrete. Reinforcing steel shall be Grades 40 or 60. Additional reinforcement necessary for handling precast units shall be determined by the Contractor or the supplier. Cost of reinforcement shall be included in the contract unit price for concrete, (Endwalls).
4. All exposed corners and edges of concrete are to be chamfered 3/4".
5. Concrete shall be Class I, except ASTM C478 (4000 psi) concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
6. On outfall ditches with side slopes flatter than 1:1 1/2 provide 20' transitions from the endwall to the flatter side slopes, right of way permitting.
7. For sodding around endwalls see Index 524-001.
8. Payment for concrete quantities for endwalls skewed to the pipe shall be made on the following basis: Endwall Skew to Pipe Use Tabulated Value 0' to 5" 6" 15" 31' or over 45"
9. Pipe length plan quantities shall be based on the pipe end locations shown in the standard location control end view, or lengths based on special endwall locations called for in the plans.
10. Payment for pipe in pipe culverts shall be based on plan quantities, adjusted for endwall locations subsequently established by the Engineer.
11. Endwalls to be paid for under the contract unit price for Class I Concrete (Endwalls), CY.



ENDWALL DIMENSIONS (EXCLUSIVE OF MULTIPLE PIPE SPACING)



LEGEND
a Pipe Skew
S Center to Center Pipe Spacing
X Centerline to Centerline Dimension At Face of Headwall

PIPE AND SPACING FOR MULTIPLE PIPE ENDWALL POSITIONS FOR SINGLE AND MULTIPLE

Table with columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, STRAIGHT CONCRETE ENDWALLS SINGLE AND MULTIPLE PIPE, INDEX 430-030, SHEET 1 of 2.

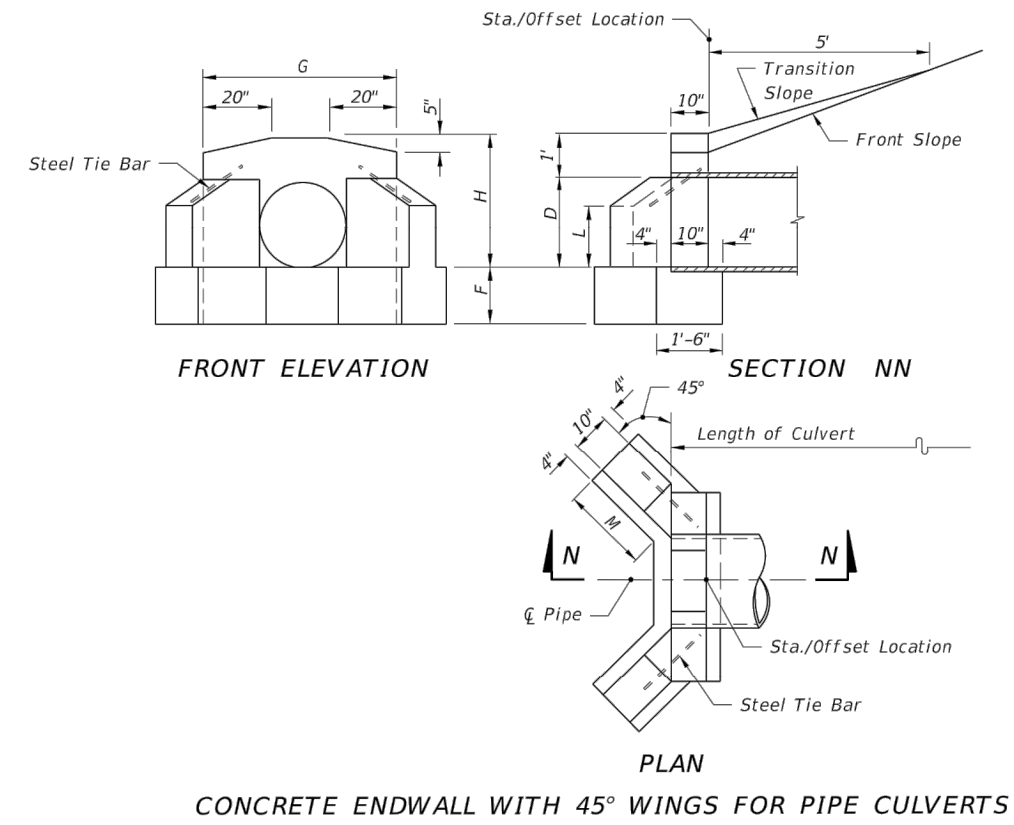


TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES PIPE CULVERT ENDWALLS WITH 45° WINGS

Table with columns: Opening, Dimensions (Wall, Footing), Concrete, Class I (Total (CY)), Steel Tie Bars. Includes data for 45 degree winged endwalls.

GENERAL NOTES

- 1. Winged concrete endwalls are intended for use outside the clear zone.
2. Chamfer all exposed edges 3/4".
3. Concrete shall be Class I, except ASTM C478 (4000 psi) Concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 449 of the Specifications.
4. Endwall to be paid for under the contract unit price for Class I Concrete.
5. Soding to be in accordance with Index 524-001, and paid for under the contract unit price for Performance Turf, 5'.

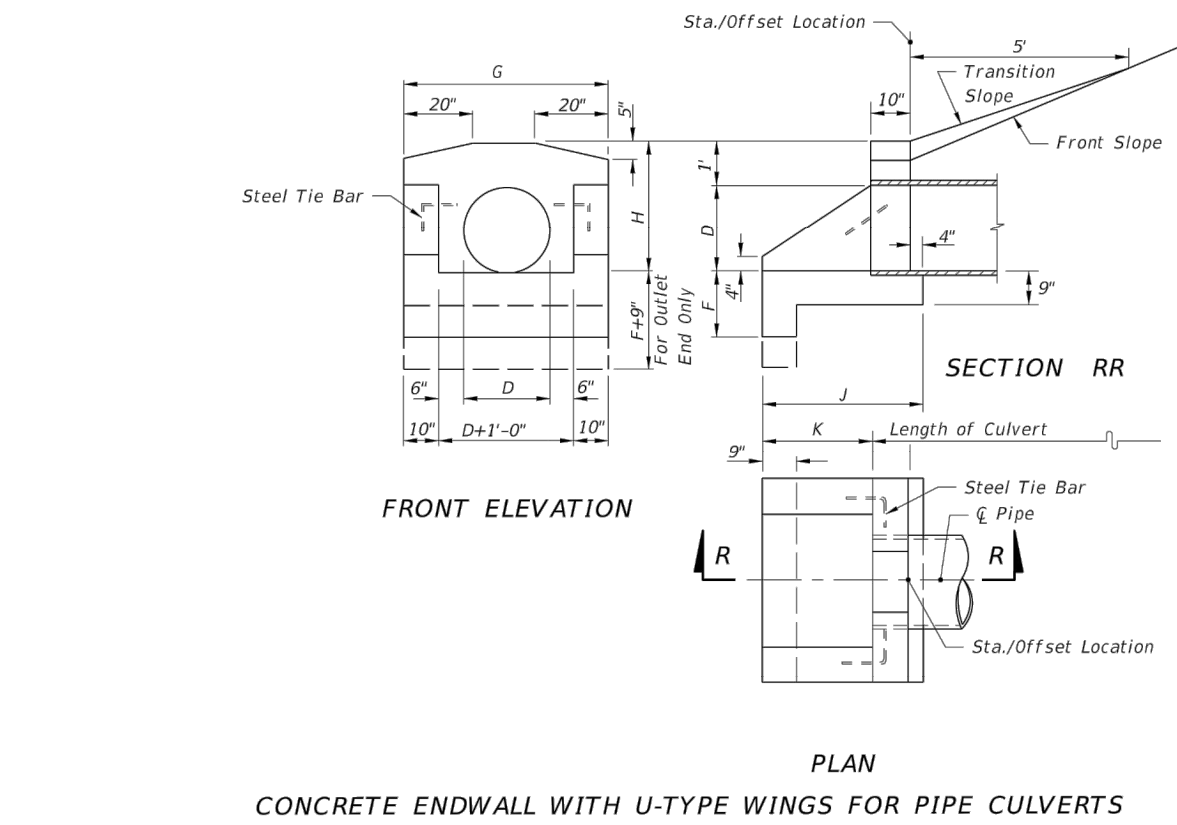


TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES PIPE CULVERT ENDWALLS WITH U-TYPE WINGS

Table with columns: Opening, Dimensions (Wall, Footing), Concrete, Class I (Total (CY)), Steel Tie Bars. Includes data for U-type winged endwalls.

Table with columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, WINGED CONCRETE ENDWALLS SINGLE ROUND PIPE, INDEX 430-040, SHEET 1 of 1.

Table with 3 columns: Revision, By, Appd. (Y.M.W.D.D.)

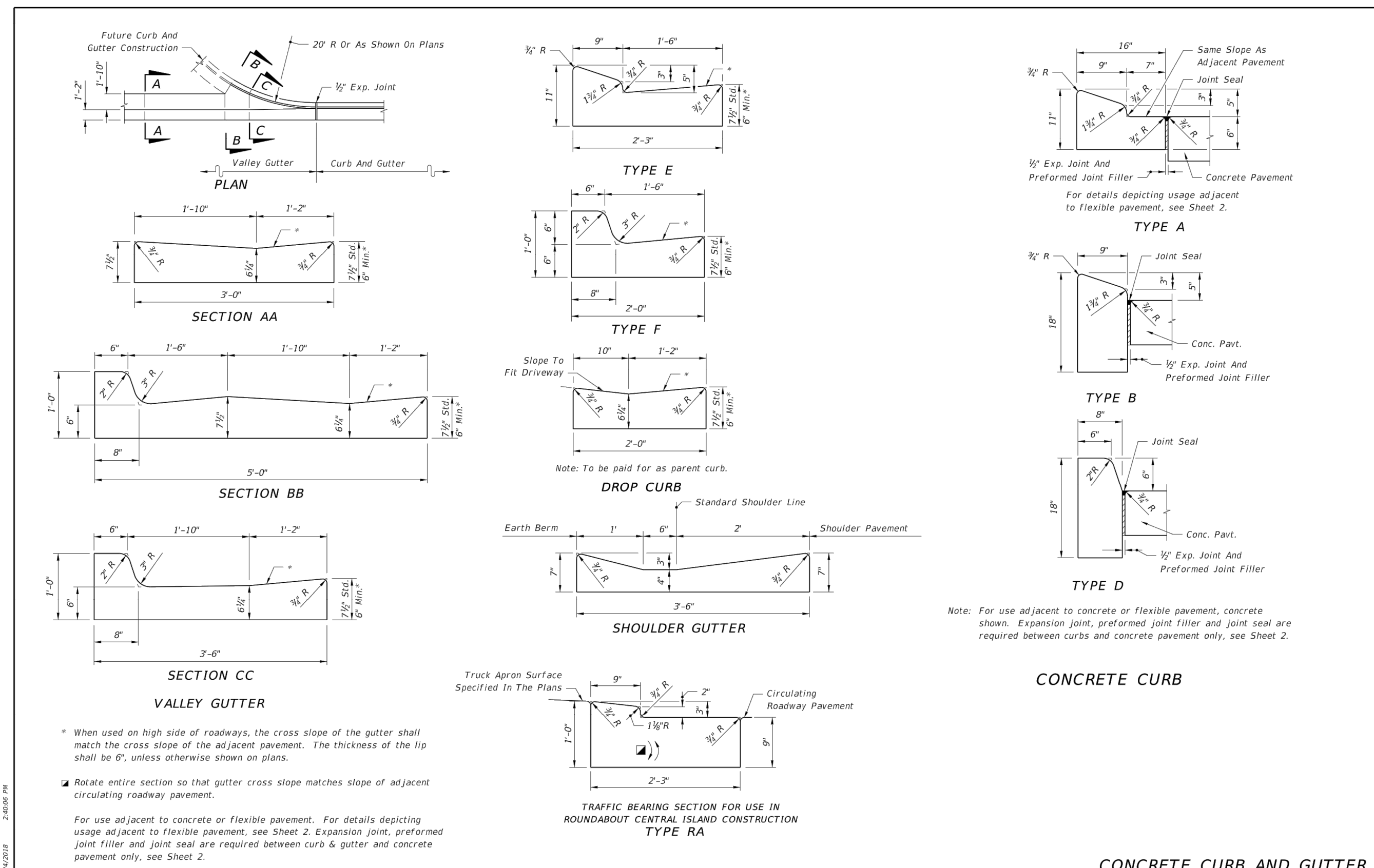


Table with 6 columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, CURB AND GUTTER, INDEX 520-001, SHEET 1 of 2

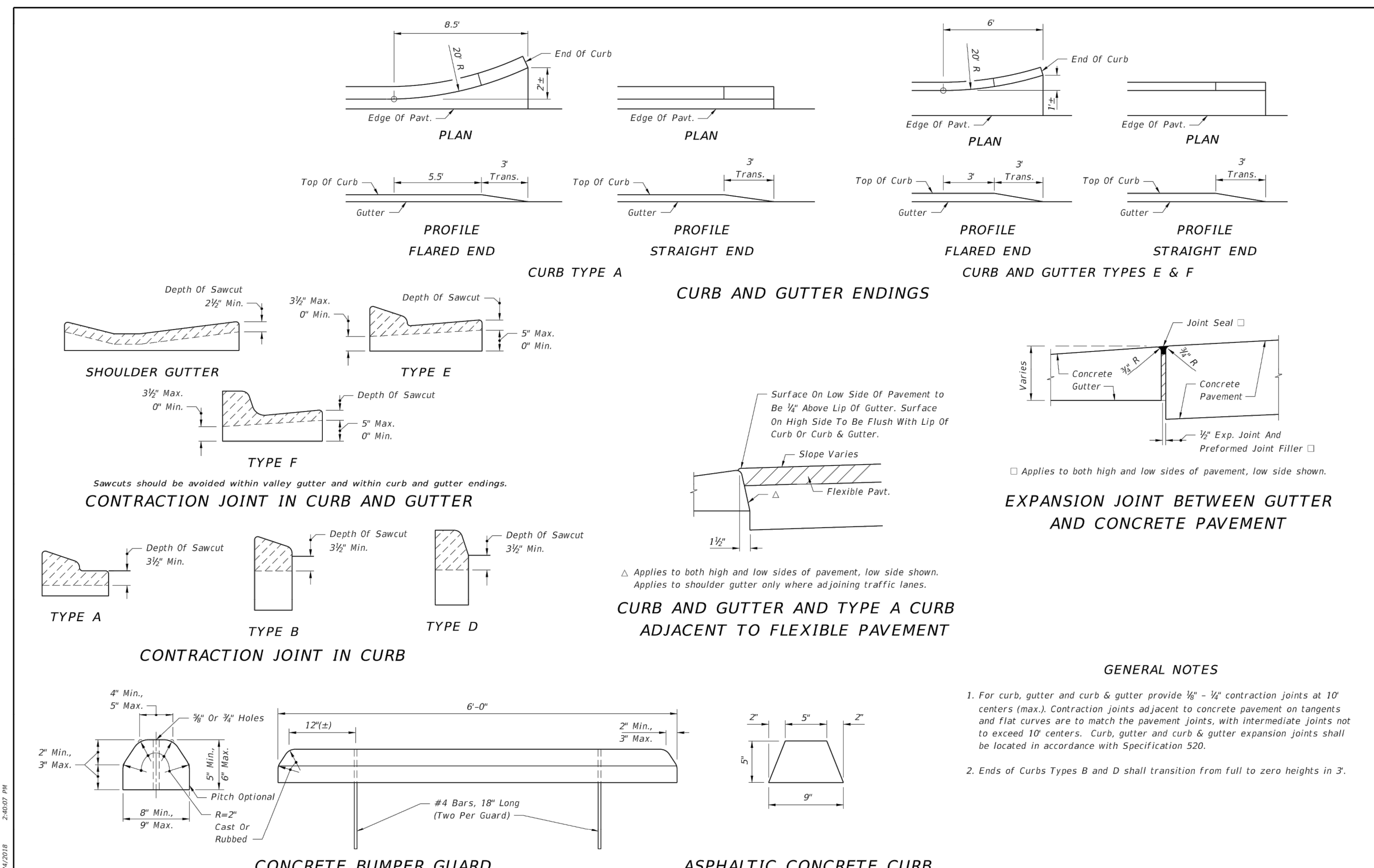


Table with 6 columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, CURB AND GUTTER, INDEX 520-001, SHEET 2 of 2

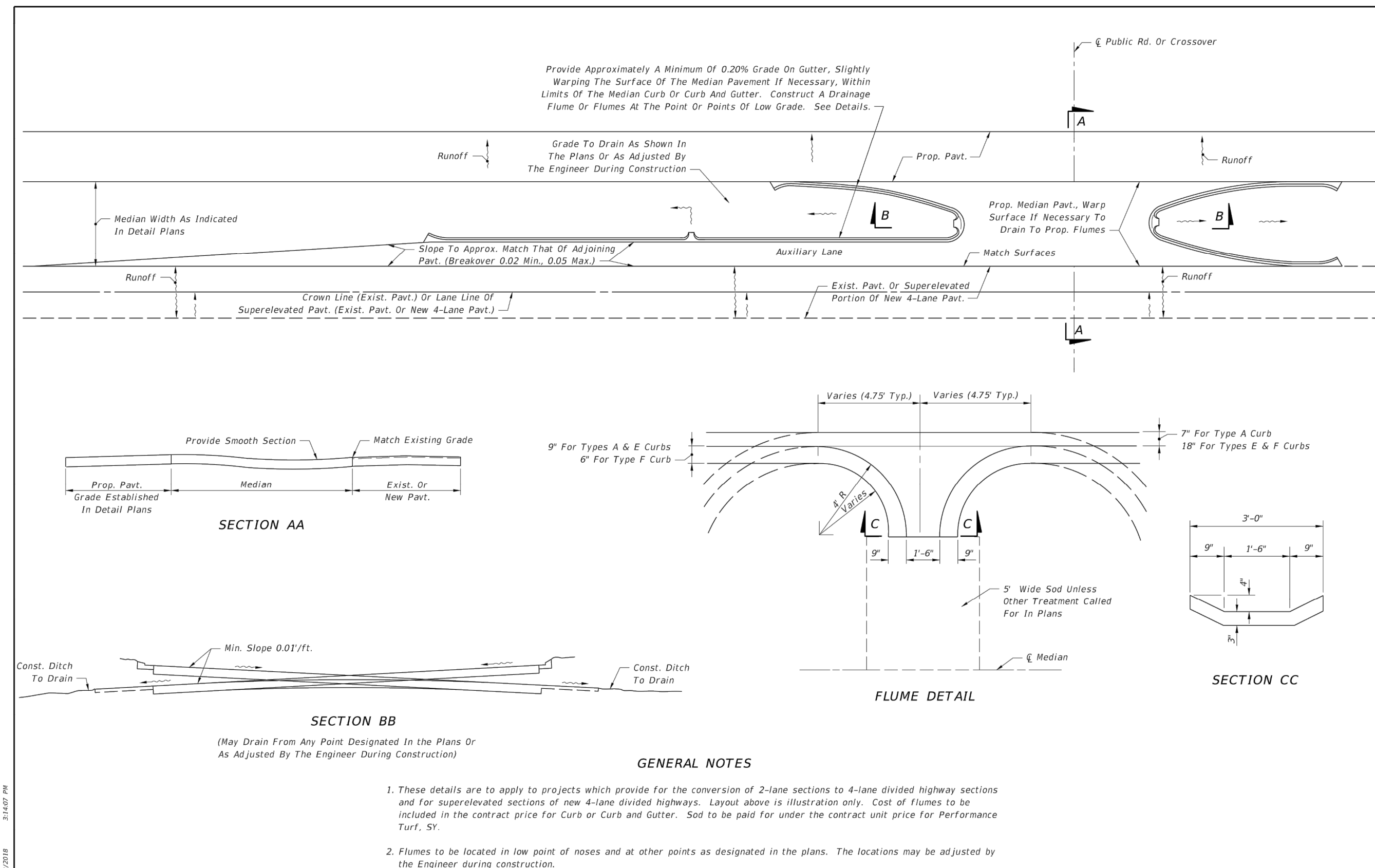
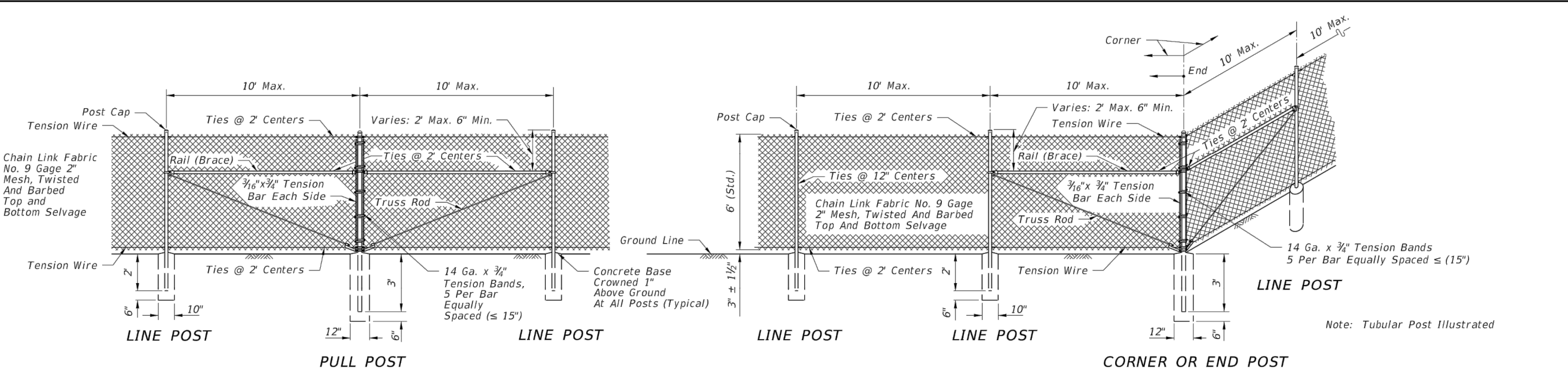


Table with 6 columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, MEDIAN OPENING FLUME, INDEX 520-010, SHEET 1 of 1

Client/Project: LEON COUNTY PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL

Table with 4 columns: JG, C8, AM, 20.01.06
Dwn, Chkd, Dsgn, Y.M.W.D.D.
Drawing No. C-518
Revision Sheet



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17	FY 2019-20 STANDARD PLANS	FENCE TYPE B	550-002 1 of 3

GENERAL NOTES CONTINUED

5. Unless a specific material is called for in the plans the Contractor may elect to use either a single type of material or a combination of material types from the component options listed in note 4. Combinations of optional materials are restricted as follows:
(a) Only one fabric optional material will be permitted between corner and/or end post assemblies.
(b) Only one line post optional material will be permitted between corner and/or end post assemblies.
(c) Pull post assemblies shall be optional materials identical to either the linepost optional material or the corner and end post assembly optional material; but, pull post assemblies shall be the same optional material between any set of corner and/or end post assemblies.
6. Concrete for bases shall be Class NS concrete as specified in Section 347 of the Standard Specifications or a packaged, dry material meeting the requirements of a concrete under ASTM C-387. Materials for Class NS concrete may be proportioned by volume and/or by weight.
7. Line post shall be 8'-6" long (Standard). Line post are to be set in concrete as described above and by the following methods:
(a) In accordance with special details and/or as specifically described in the contract plans and specifications.
(b) In accordance with ASTM F567 Subsections 5.4 through 5.10 as approved by the Engineer.
Line post installed in accordance with Section 5-B shall be 9'-6" long.
(c) Post mounted on concrete structure or solid rock shall be mounted in accordance with the base plate detail "Fence Mounting On Concrete Endwalls and Retaining Wall", Sheet 3; or, by embedment in accordance with ASTM F367 Subsection 5.5.

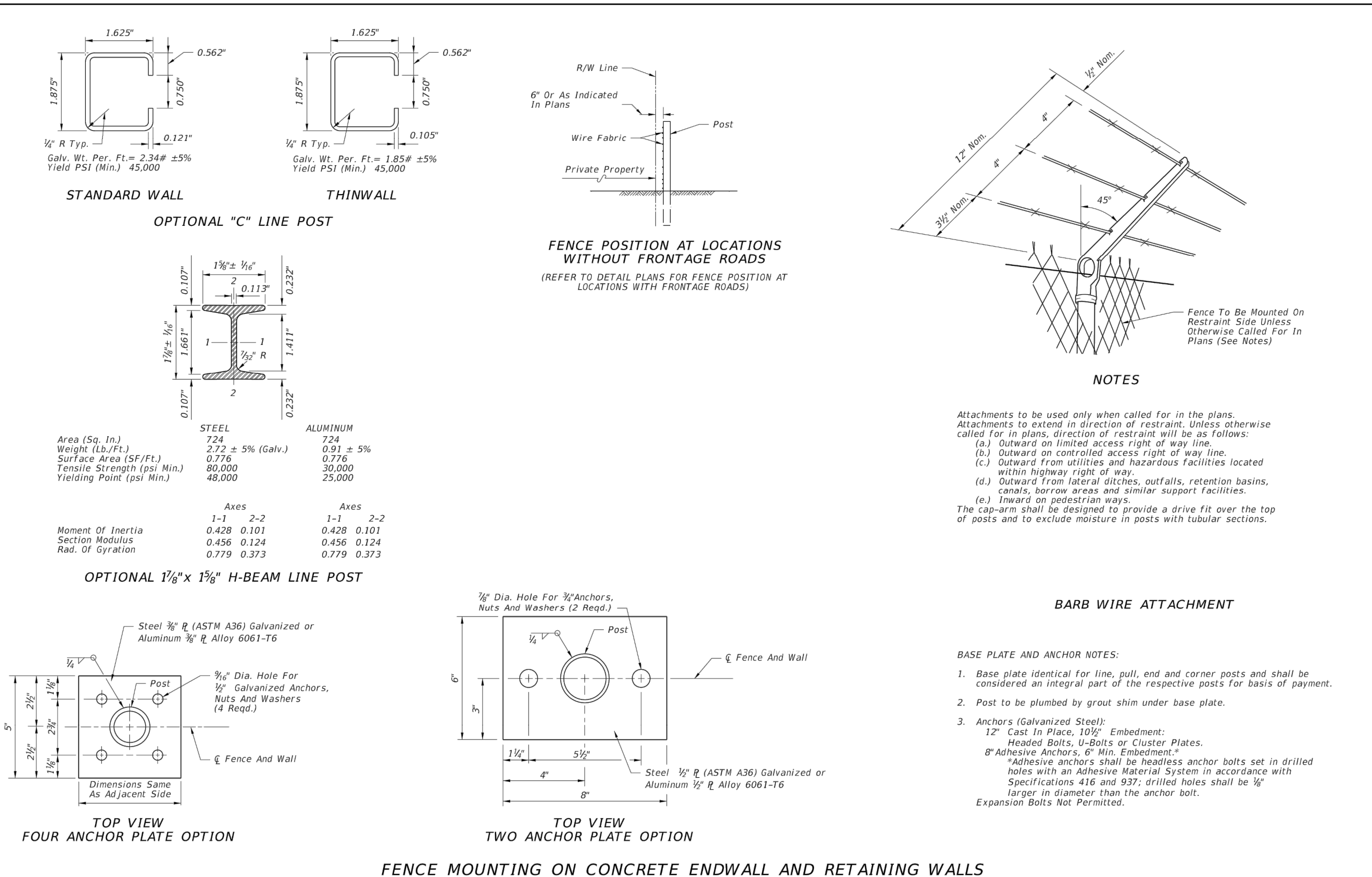
Specified Diameter Of Metallic Coated Core Wire	Minimum Weight Of Zinc Coating	PVC Thickness Range						
		M181 Class A (Extruded Or Bonded Coating)		M181 Class B (Bonded Coating)				
		in.	mm	in.	mm			
0.148	3.77	9	0.30	92	0.015	0.38	0.006	0.15
					0.025	0.64	0.010	0.25

DESIGN NOTE

- End, pull and corner post assemblies shall be in concrete as detailed above for all soil conditions other than solid rock. Post within assemblies that are located on concrete structures or solid rock shall be set by base plate or by embedment as prescribed under (c) above for line post.
- Line and assembly posts for 6" fence which must be lengthened due to a variation in the normal ground clearance, shall be set an additional 3" in depth for each 1' of additional ground clearance.
8. Pull post shall be used at breaks in vertical grades of 15% or more, or at approximately 350' centers except that this maximum interval may be reduced by the Engineer on curves where the curve is greater than 3'.
9. Corner post are to be installed at all horizontal breaks in fence at 15' or more and as required at vertical breaks over 15' as determined by the Engineer.
10. When fence has an installed top of fabric height less than 6" knuckled top and bottom selvages shall be used unless the plans specifically identify locations for twisted selvage fabrics.
11. Sliding gates or special gates are called for in the plans, all gates shall be chain link swing gates meeting the material requirements described and as approved by the Engineer. Payment shall include the gates, single or double, all necessary hardware for installation and any additional length and/or size for posts at the opening. Gates shall be paid for under the contract unit price for Fence Gates, EA.
12. For construction purposes corner post assemblies shall consist of one corner post, two truss rods and all necessary fittings and hardware as detailed. End post assemblies shall consist of one end post, one brace, one truss rod and all necessary fittings and hardware as detailed.
13. In areas where there are physical constraints outside the right-of-way which restricts the fence construction, the fabric may be installed on the inside of the posts.

This index details fencing that is constructed with chain link fabric 6" (nominal) in height and with specific ground clearance. For fencing of different height or installation details, the fence shall be fully detailed in the Contract plans.

LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17	FY 2019-20 STANDARD PLANS	FENCE TYPE B	550-002 2 of 3



LAST REVISION	DESCRIPTION	INDEX	SHEET
11/01/17	FY 2019-20 STANDARD PLANS	FENCE TYPE B	550-002 3 of 3

Revision	By	Appd.	Issued

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SHEET	CONTENTS
1	General Notes; Index Contents
2	General, TL-3 Guardrail - Installed Plan and Elevation
3	Low-Speed, TL-2 Guardrail - Installed Plan and Elevation
4	W-Beam and Thrie-Beam Panel Details
5	Post and Offset Block Details
6	Guardrail Sections - Heights and Adjacent Slopes
7	End Treatment - Approach Terminal Geometry, Parallel and Flared
8	End Treatment - Approach Terminal Geometry, Curbed and Double Faced
9	End Treatment - Trailing Anchorage
10	End Treatment - Component Details
11	End Treatment - Controlled Release Terminal (CRT) System
12	Layout for CRT System - Side Roads and Driveways
13	Approach Transition Connection to Rigid Barrier - General, TL-3
14	Approach Transition Connection to Rigid Barrier - Low-Speed, TL-2
15	Approach Transition Connection to Rigid Barrier - Details
16	Approach Transition Connection to Rigid Barrier - Double Faced Guardrail
17	Layout to Rigid Barrier - Approach Ends
18	Layout to Rigid Barrier - Approach Ends with Double Faced Guardrail
19	Layout to Rigid Barrier - Trailing Ends
20	Rub Rail Details
21	Barrier Delineators - Post Mounted; Clear Space - Reduced Post Spacing for Hazards; $\frac{3}{8}$ " Button-Head Bolt System
22	Barrier Delineators - Post Mounted; Clear Space - Reduced Post Spacing for Hazards; $\frac{3}{8}$ " Button-Head Bolt System

GENERAL NOTES:

- INSTALLATION:** Construct guardrail in accordance with Specification 536. This Index, along with the plans and the manufacturer's drawings on the Approved Products List (APL), is sufficiently detailed for installation of General Guardrail, Low-Speed Guardrail, End Treatment assemblies, and their connecting options shown herein. This precludes requirements for shop drawing submittals unless otherwise specified in the plans.
 - COMPATIBILITY:** The General Guardrail in this Index is based on the Midwest Guardrail System (MGS) design, with an approximate height of 31" at the top of the panel (21" mounting height at vertical center of panel) and a midspan panel splice as shown on Sheet 2. Guardrail components included on the APL, which are compatible with this Index, may also be identified as 31" or MGS Guardrail.
 - STANDARD COMPONENTS:** Standard guardrail components, including posts, panels, and bolt systems, are based upon English unit conversions of the AASHTO-AGC-ARTBA Joint Committee Task Force 19 Report: A Guide to Standardized Highway Barrier Hardware (http://www.aashtof19.org/Barrier-Hardware.php).
 - BUTTON-HEAD BOLTS:** Install Button-Head Bolts where indicated using bolts, nuts, and washers as defined on Sheet 22. Place washers under nuts. Do not place washers between bolt heads and panels, except where otherwise shown in this Index.
 - HEX-HEAD BOLTS:** Install Hex-Head Bolts where indicated using bolts, nuts, and washers in accordance with material properties of Specification 967. Place washers under nuts.
 - MISCELLANEOUS ASPHALT PAVEMENT:** Install Miscellaneous Asphalt Pavement where indicated with a tolerance of $\pm 1/2$ " depth and in accordance with Specification 339.
 - ADJACENT SIDEWALKS & SHARED USE PATHS:** When guardrail posts are placed within 4'-0" of a sidewalk or shared use path, use timber posts, or use steel posts only if treated with Pipe Rail as shown on Sheet 20.
When timber posts are used, one of the following safety treatments is required for the bolt(s) protruding from the back face of the posts:
 - After tightening the nut, trim the protruding post flush with the nut and galvanize per Specification 562.
 - Use post bolts 15" in length and countersink the washer and nut between 1" and 1 1/2" deep into the back face of the post.
 - Use 15" post bolts with sleeve nuts and washers.
- When End Treatment posts are within 4'-0" of a sidewalk or shared use path, steel posts are not permitted within the End Treatment segment. Terminate the Pipe Rail outside of End Treatment segments, as noted per Sheet 20.
- NESTED W-BEAM:** Where called for in the plans, install two W-Beam Panels mounted flush per location, securing all panels with Button-Head Bolts threaded through aligned slots and holes. 2" Button-Head Bolts are permitted for panel splice locations.
 - CONNECTION TO RIGID BARRIER:** The connections to Rigid Barrier in this Index only apply to newly constructed bridge Traffic Railing and Concrete Barrier or where the complete Approach Transition Connection to Rigid Barrier shown herein can be installed without conflicting with existing Traffic Railings, structures, or approach slabs.
For connecting guardrail to existing bridge Traffic Railings, see the layouts and details of Indexes 536-002, 521-404, and 421-405.
 - CONNECTION TO EXISTING GUARDRAIL:** Where a transition to existing guardrail at 27" height is required, linearly transition the guardrail height over a distance ranging from 25'-0" to 33'-9". Provide an immediate transition to the required midspan splice using the available panel options on Sheet 4 (18'-4 1/2" or 15'-7 1/2" panel).
 - PLANS CALLOUTS:** Begin/End Station labels are shown throughout this Index as they correspond to the station and offset callouts specified in the plans.
In the plans, Begin/End Guardrail Station refers to the General TL-3 Guardrail Pay Item, and it may be abbreviated as Begin/End GR Station. Where the Low-Speed TL-2 Guardrail Pay Item is specifically required, the callout in the plans will then specify Begin/End TL-2 GR Station.
 - QUANTITY MEASUREMENT:** Measure guardrail and corresponding components as defined in Specification 536. The Guardrail length is measured along the centerline of installed panels, between the points labeled Begin/End Guardrail Station shown on the following Index Sheets and defined in the plans (typically measured from the center of the panel's post bolt slots at the approach/trailing ends).

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GENERAL GUARDRAIL INSTALLED ELEVATION

INSTALLED PLAN

GENERAL, TL-3 GUARDRAIL DETAILS

LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2019-20 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 2 of 22
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LOW-SPEED GUARDRAIL INSTALLED ELEVATION

INSTALLED PLAN

LOW-SPEED, TL-2 GUARDRAIL DETAILS

LAST REVISION 11/01/17	DESCRIPTION:	FDOT FY 2019-20 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 3 of 22
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W-BEAM AND THRIE-BEAM PANEL DETAILS

Panel Type	Number of Spaces 'N'	Gauge
6'-3" W-Beam	2	12
9'-4 1/2" W-Beam	3	12
12'-6" W-Beam	4	12
15'-7 1/2" W-Beam	5	12
25'-0" W-Beam	8	12
3'-1 1/2" Thrie-Beam	1	10
6'-3" Thrie-Beam	2	12
12'-6" Thrie-Beam	4	12
25'-0" Thrie-Beam	8	12
Thrie-Beam Trans.	2	10

NOTES:

- MATERIALS:** Corrugated steel panels in accordance with Specification 967 and made from either Class A, 12 gauge steel or Class B, 10 gauge steel as specified in the Panel Summary Table above.
- CABLE ANCHOR PLATE BOLT HOLES:** Include 3/4" Cable Anchor Plate Bolt Holes only where required for installation of the Cable Anchor Plate shown on Sheet 9, 10, & 11.
3/8" x 1 1/2" slots may substitute for the 3/8" holes shown.

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Client/Project
**LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL**

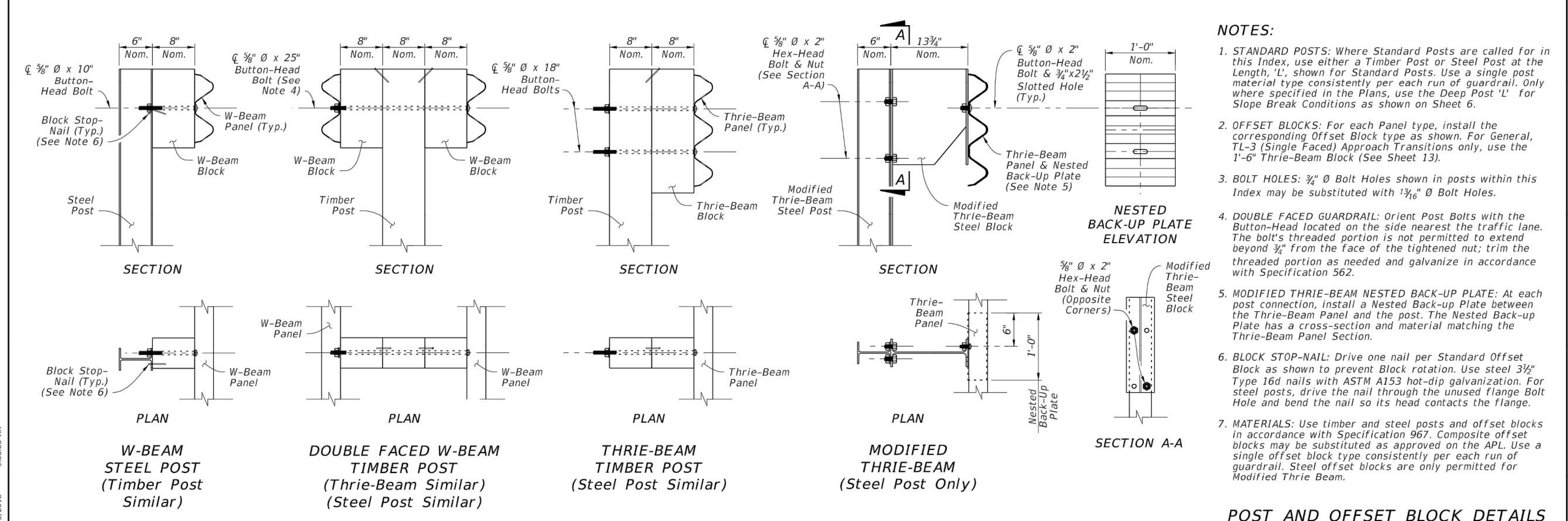
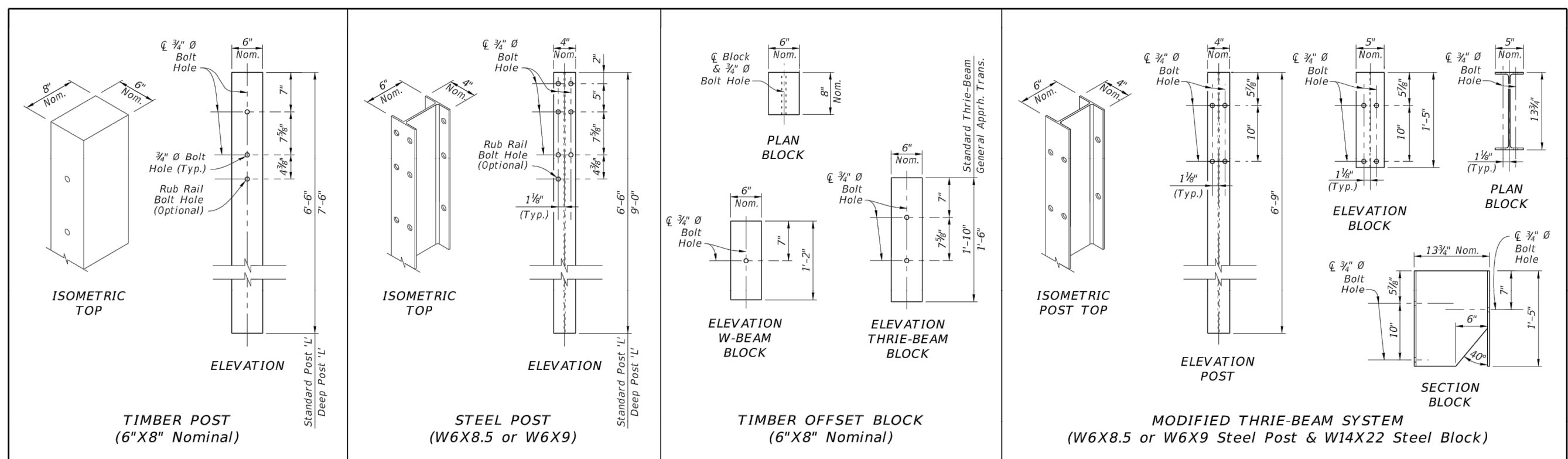
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DETAILS**

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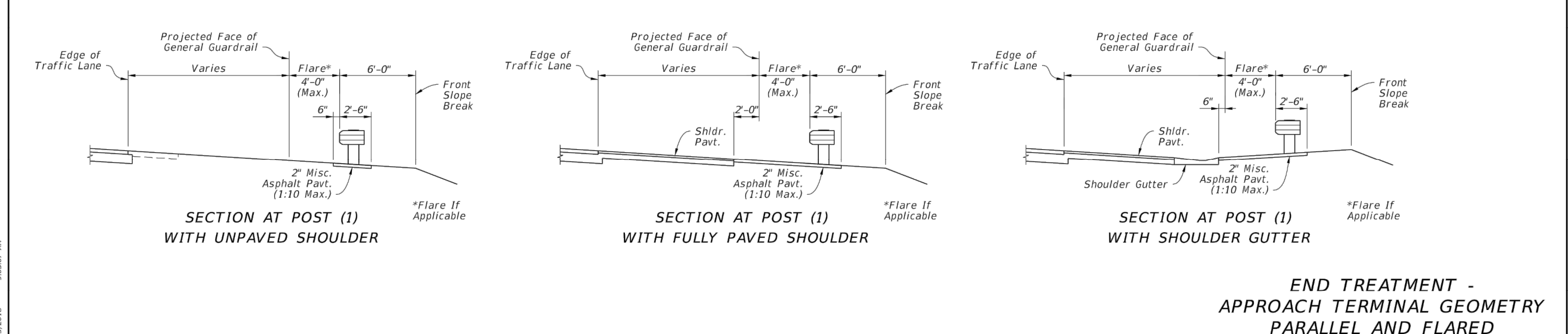
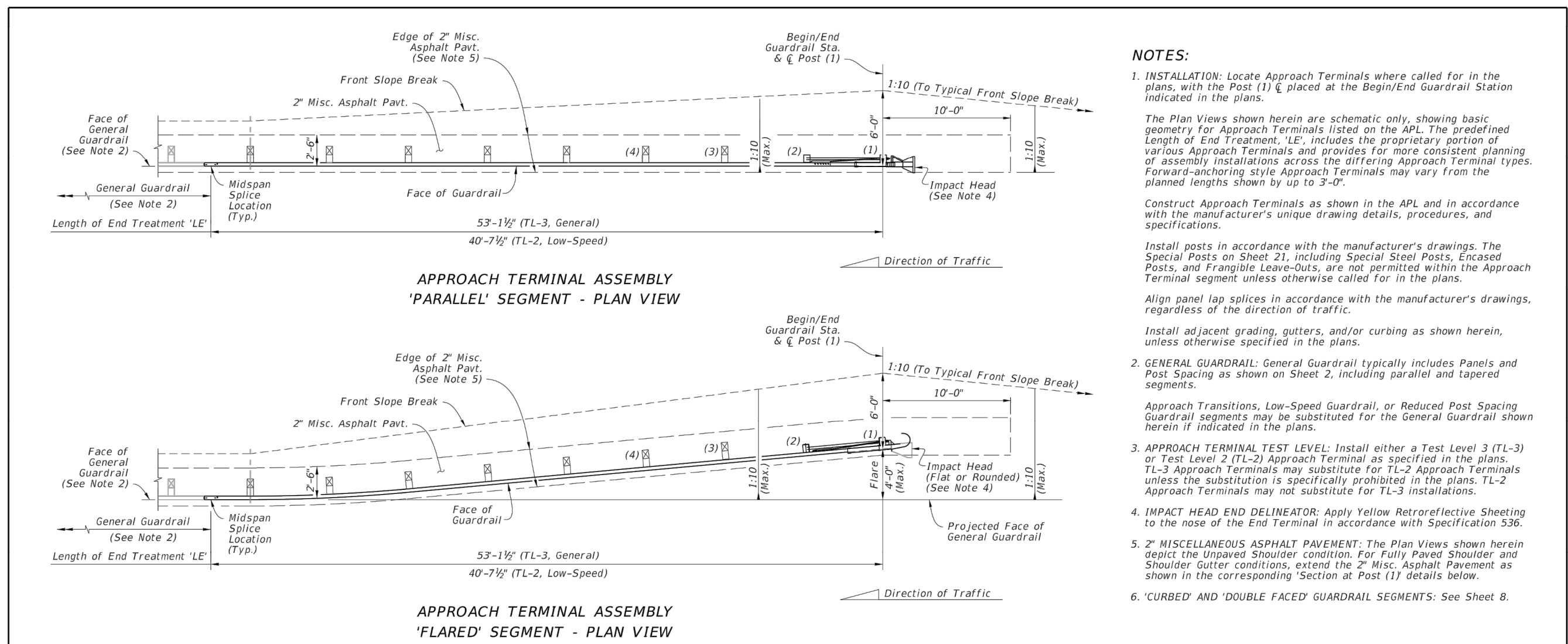
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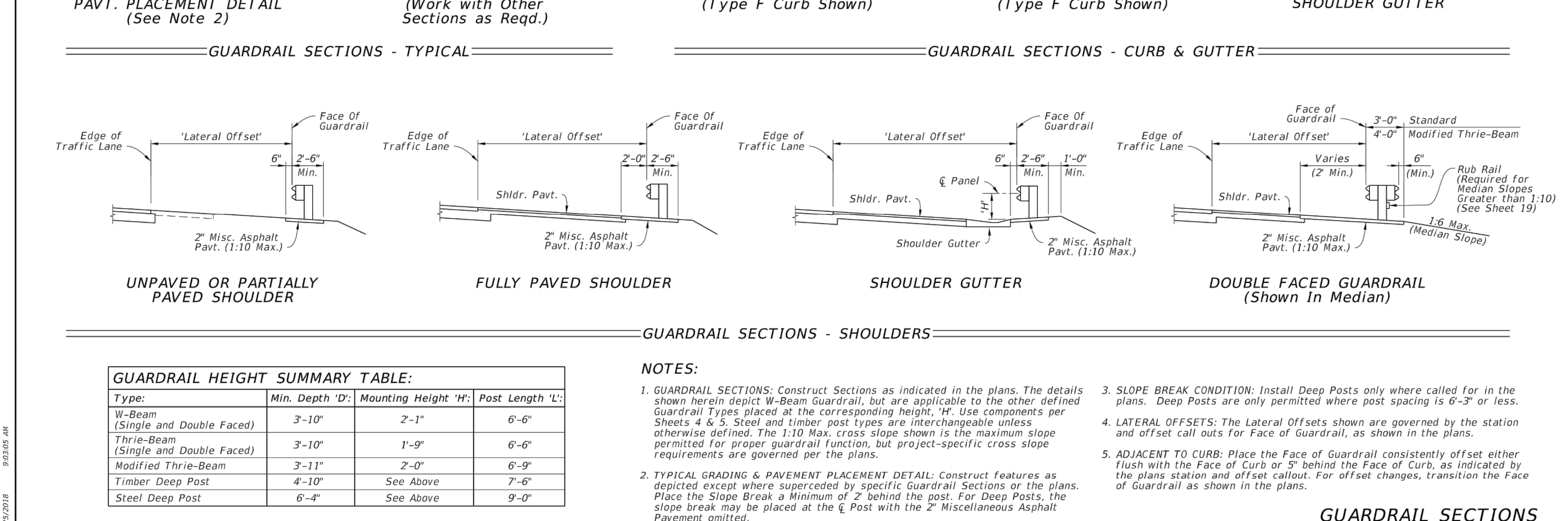
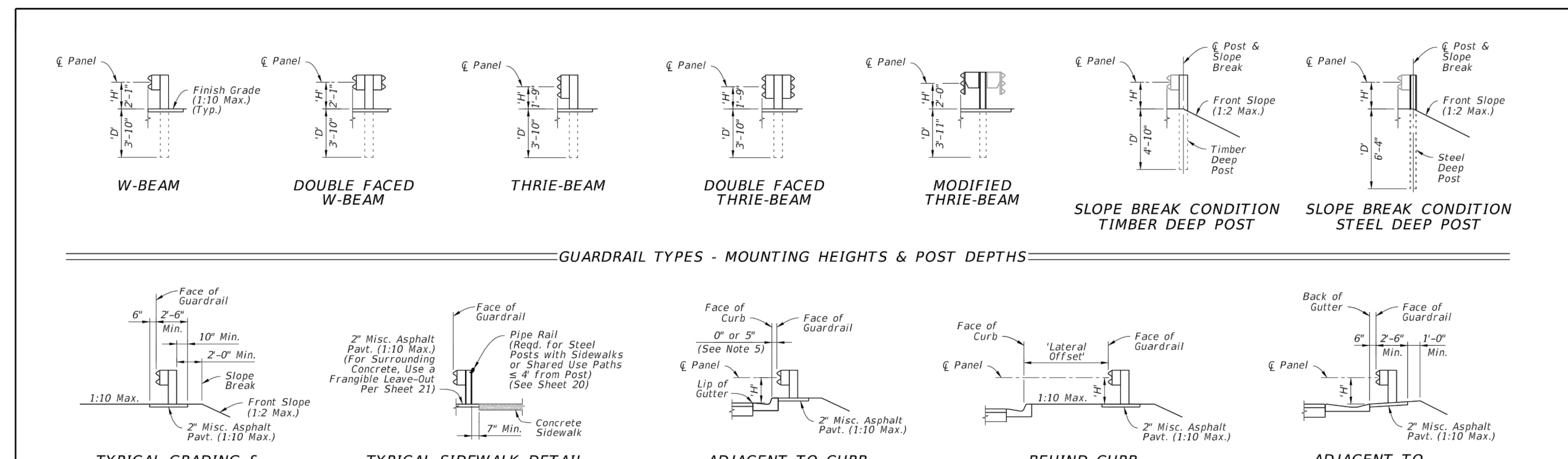
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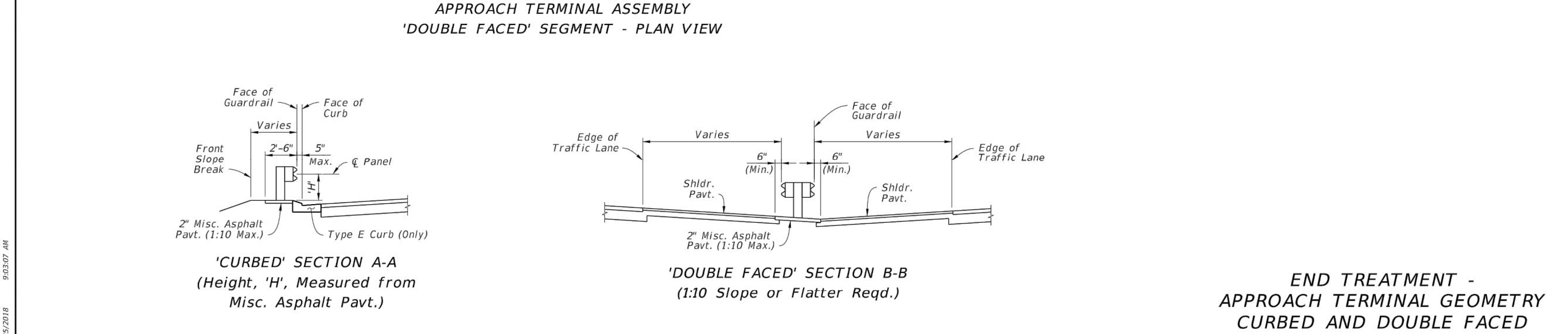
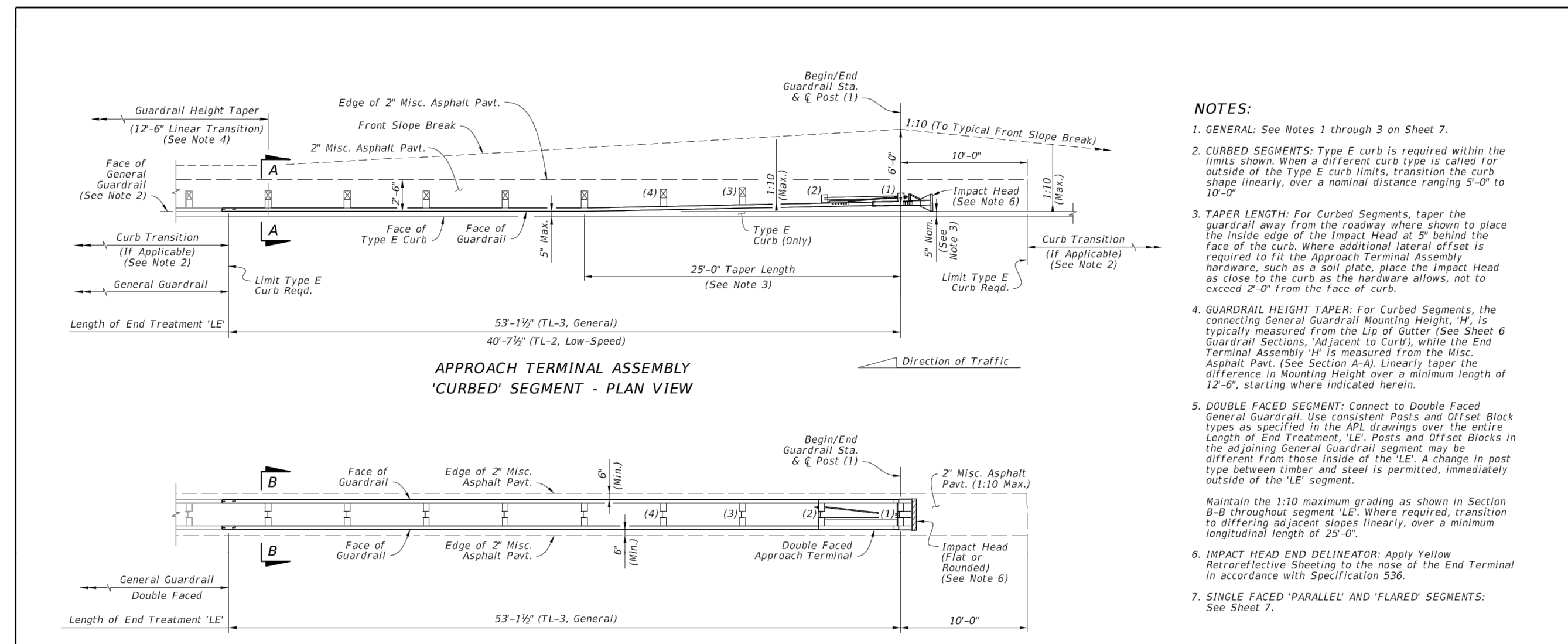
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11/01/17				536-001	7 of 22



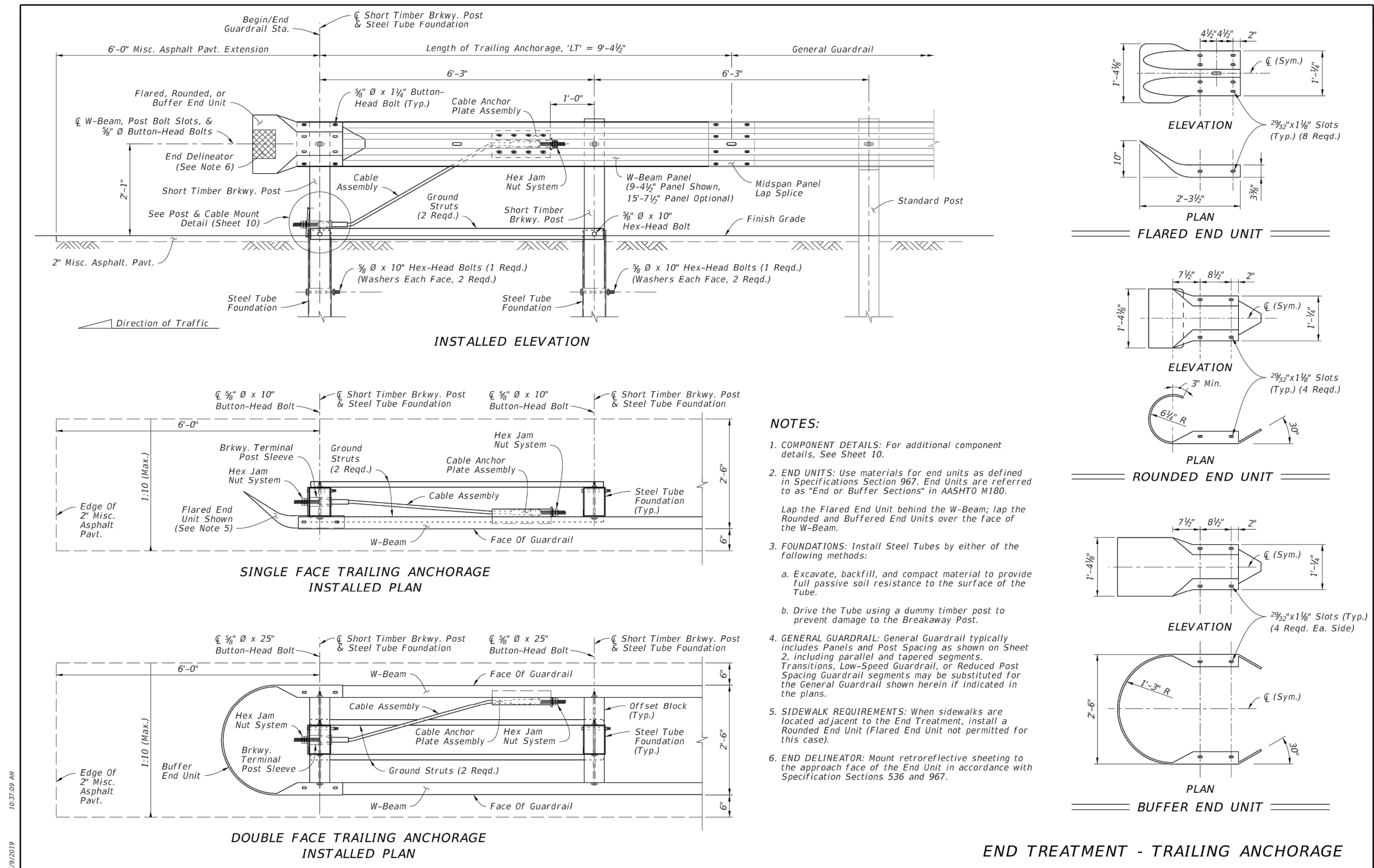
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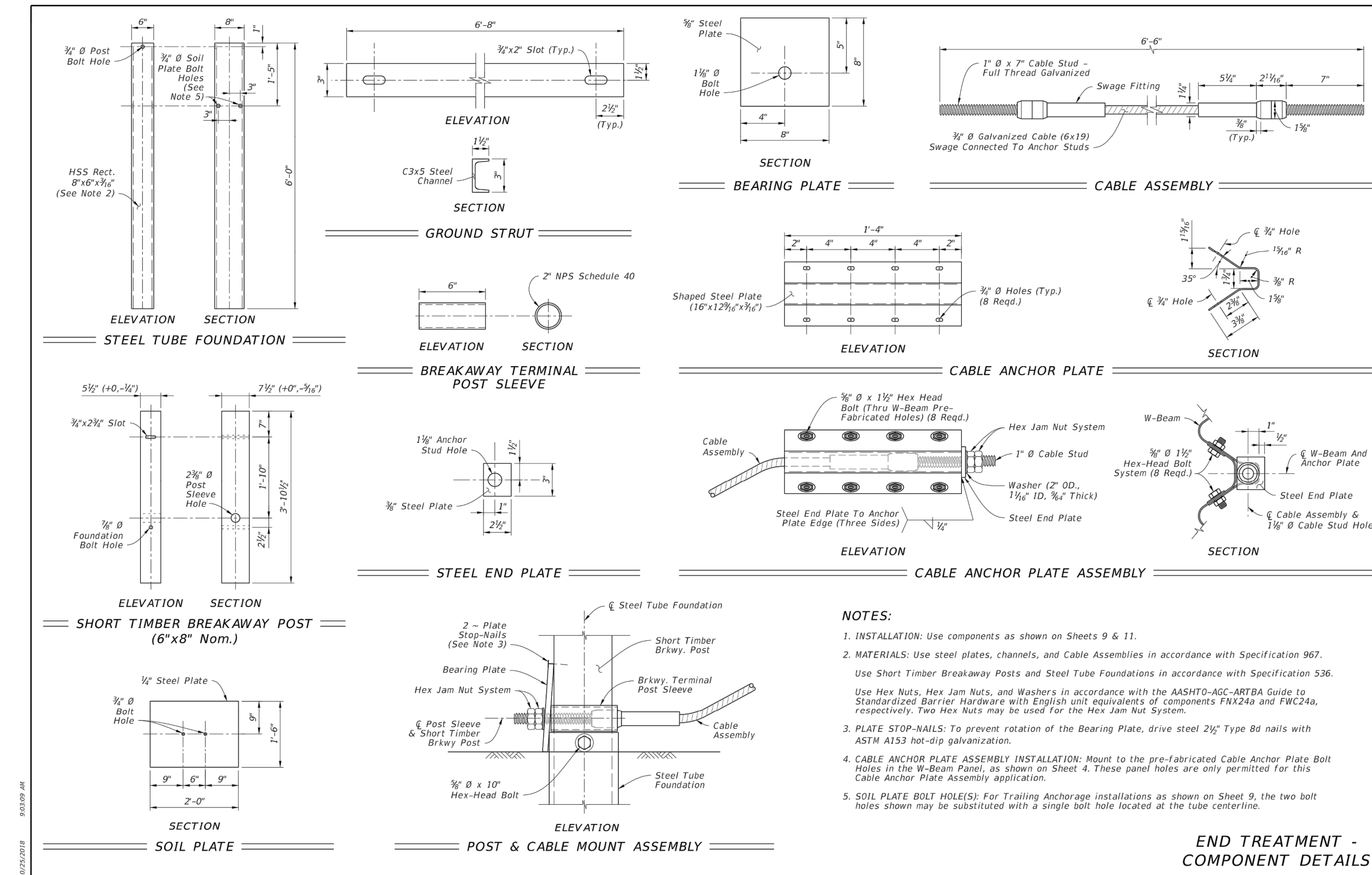
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FDOT GUARDRAIL
DETAILS

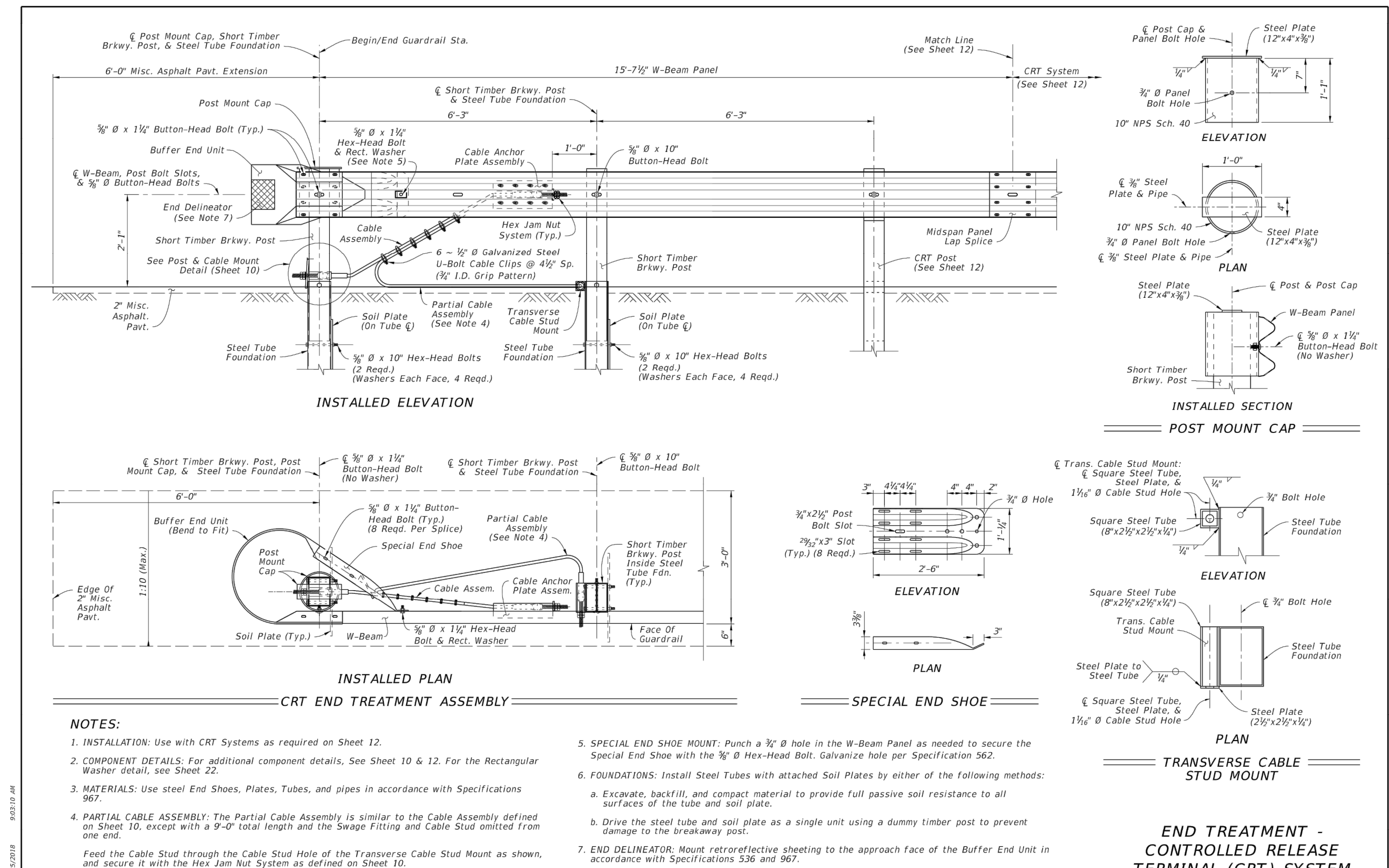
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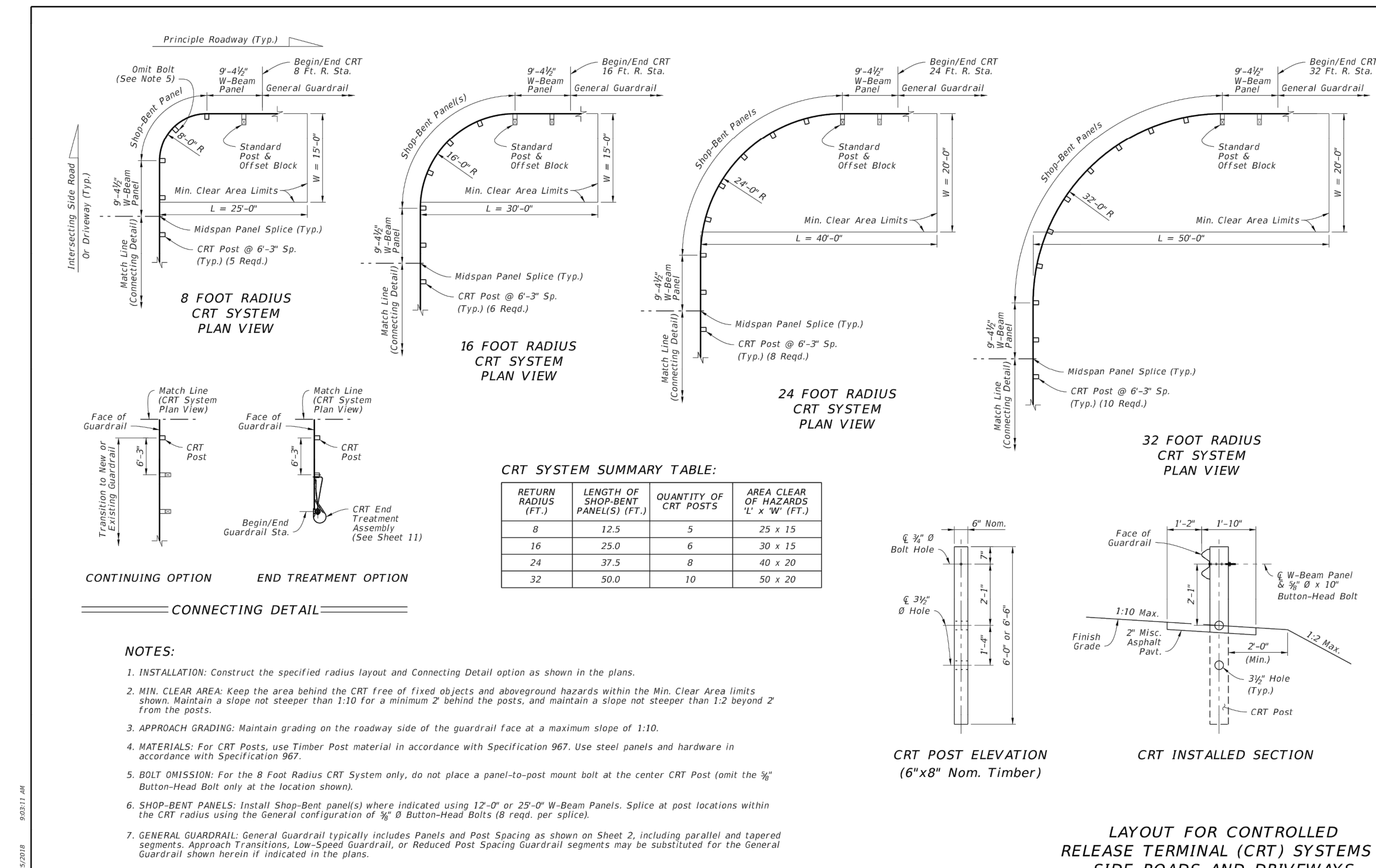
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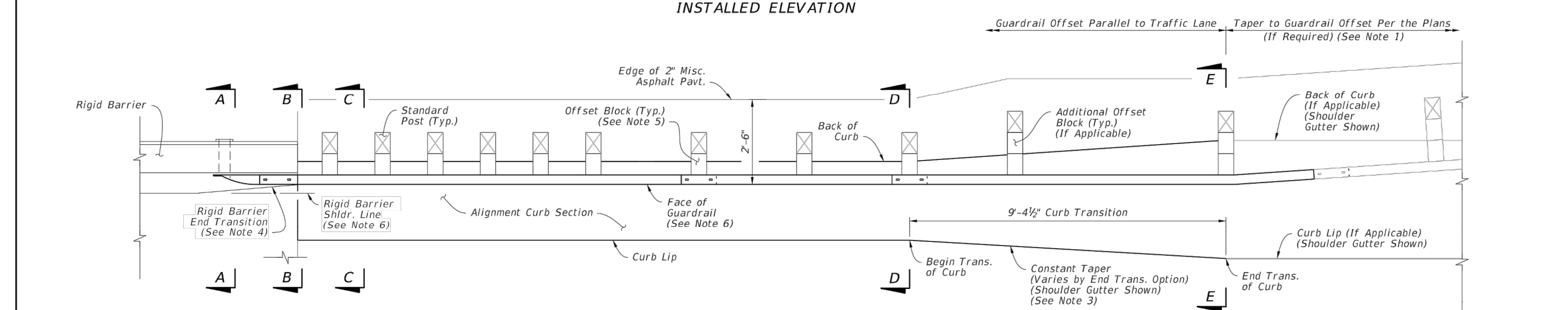
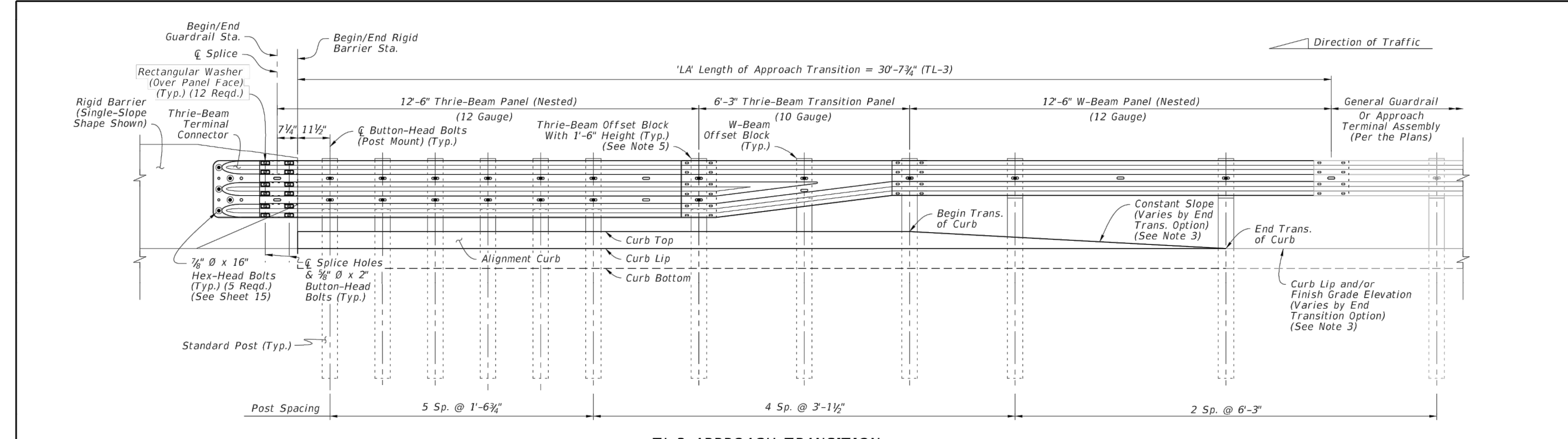
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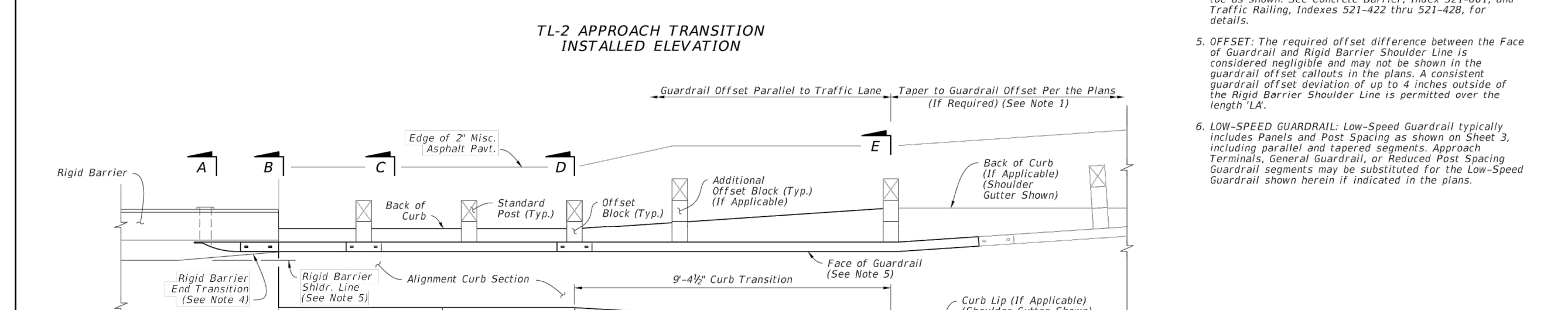
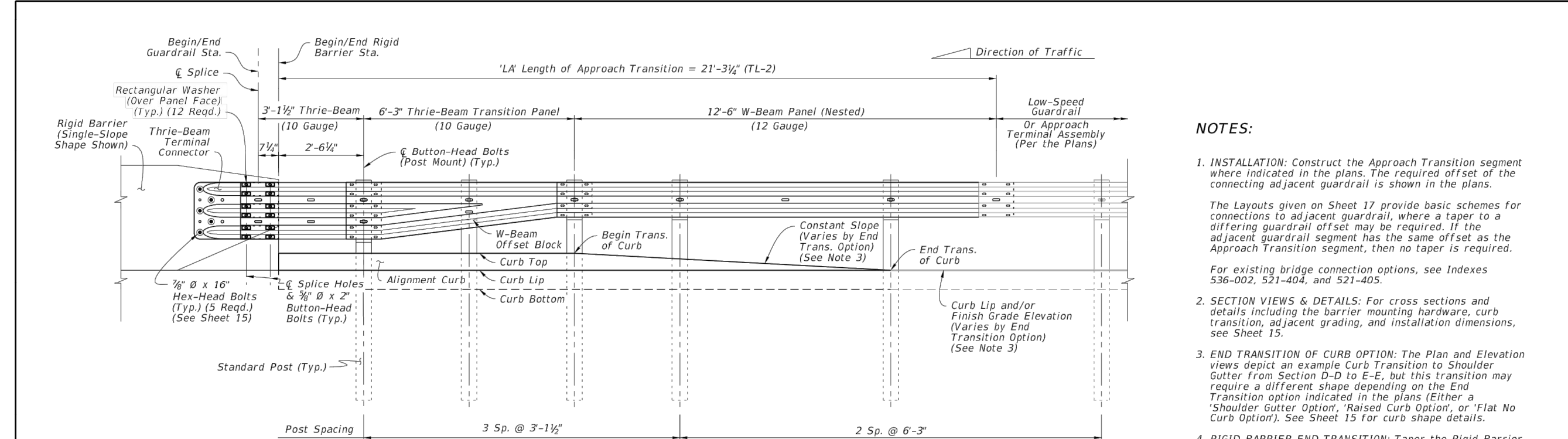
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Revision Sheet

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NOTES:
1. INSTALLATION: Construct the Approach Transition segment where indicated in the plans. The required offset of the connecting adjacent guardrail is shown in the plans.
2. SECTION VIEWS & DETAILS: For cross sections and details including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 15.
3. END TRANSITION OF CURB OPTION: The Plan and Elevation views depict an example Curb Transition to Shoulder Gutter from Section D-D to E-E, but this transition may require a different shape depending on the End Transition option indicated in the plans (either a Shoulder Gutter Option, Raised Curb Option, or Flat No Curb Option). See Sheet 15 for curb shape details.
4. RIGID BARRIER END TRANSITION: Taper the Rigid Barrier toe as shown. See Concrete Barrier, Index 521-001, and Traffic Railing, Indexes 521-422 thru 521-428, for details.
5. OFFSET BLOCKS: For Three-Beam post locations within the Length of Approach Transition segment, use the Timber Offset Blocks with 1'-0\"/>

Table with columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, GUARDRAIL, INDEX, SHEET. Includes revision 11/01/17 and sheet number 13 of 22.



NOTES:
1. INSTALLATION: Construct the Approach Transition segment where indicated in the plans. The required offset of the connecting adjacent guardrail is shown in the plans.
2. SECTION VIEWS & DETAILS: For cross sections and details including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 15.
3. END TRANSITION OF CURB OPTION: The Plan and Elevation views depict an example Curb Transition to Shoulder Gutter from Section D-D to E-E, but this transition may require a different shape depending on the End Transition option indicated in the plans (either a Shoulder Gutter Option, Raised Curb Option, or Flat No Curb Option). See Sheet 15 for curb shape details.
4. RIGID BARRIER END TRANSITION: Taper the Rigid Barrier toe as shown. See Concrete Barrier, Index 521-001, and Traffic Railing, Indexes 521-422 thru 521-428, for details.
5. OFFSET: The required offset difference between the Face of Guardrail and Rigid Barrier Shoulder Line is considered negligible and may not be shown in the guardrail offset callouts in the plans. A consistent guardrail offset deviation of up to 4 inches outside of the Rigid Barrier Shoulder Line is permitted over the length 'LA'.
6. LOW-SPEED GUARDRAIL: Low-Speed Guardrail typically includes Panels and Post Spacing as shown on Sheet 3, including parallel and tapered segments. Approach Terminals, General Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the Low-Speed Guardrail shown herein if indicated in the plans.

Table with columns: LAST REVISION, DESCRIPTION, FY 2019-20 STANDARD PLANS, GUARDRAIL, INDEX, SHEET. Includes revision 11/01/17 and sheet number 14 of 22.

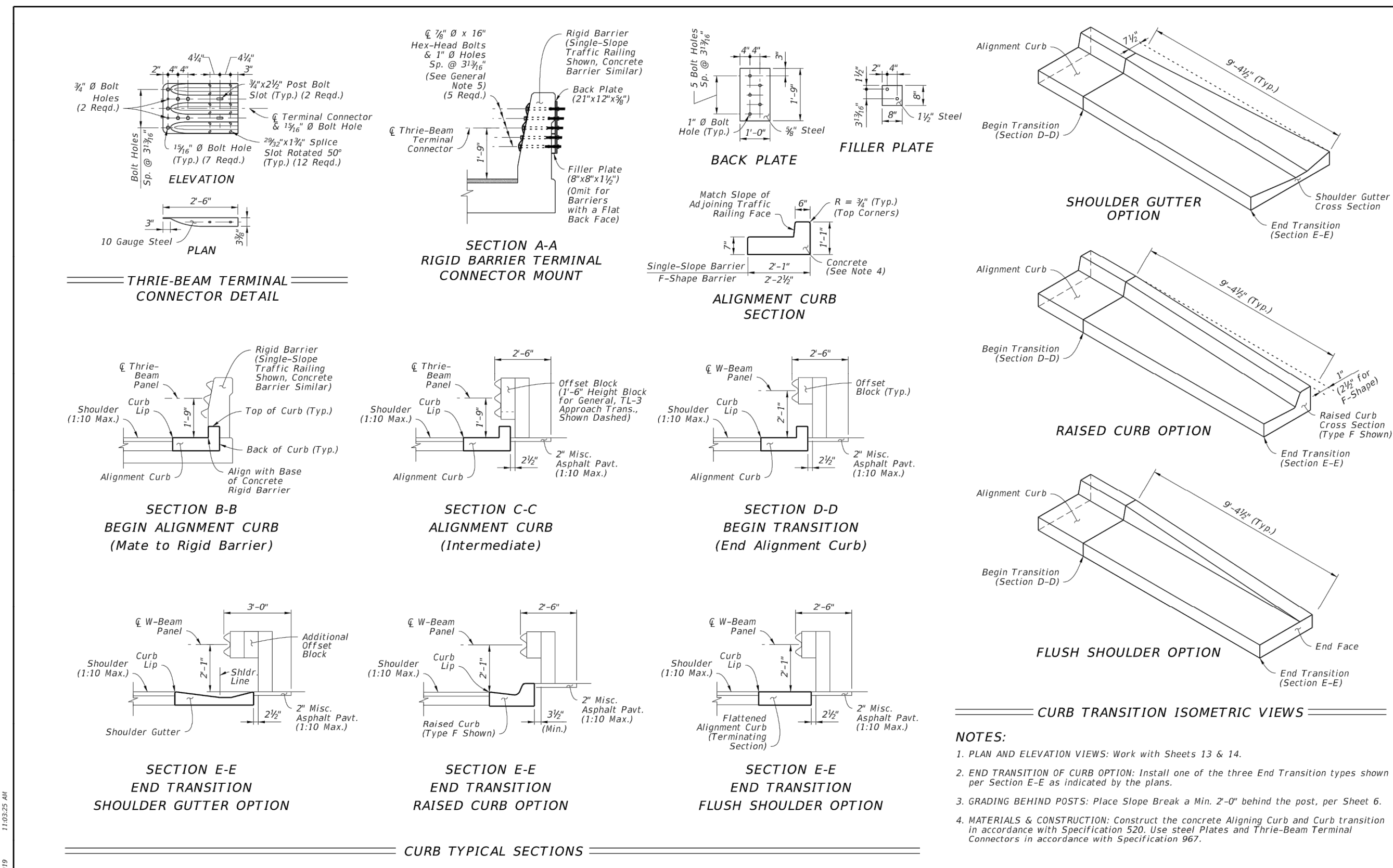


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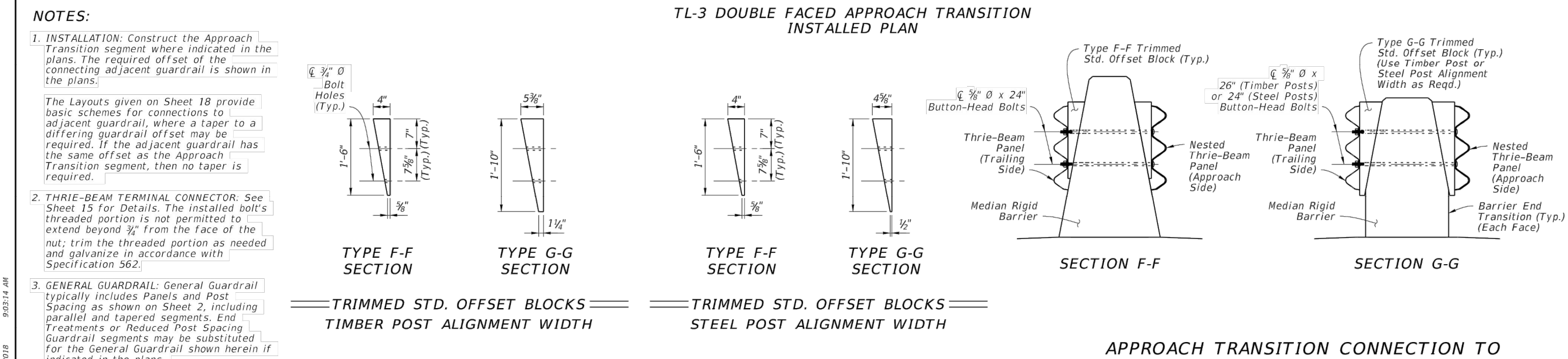
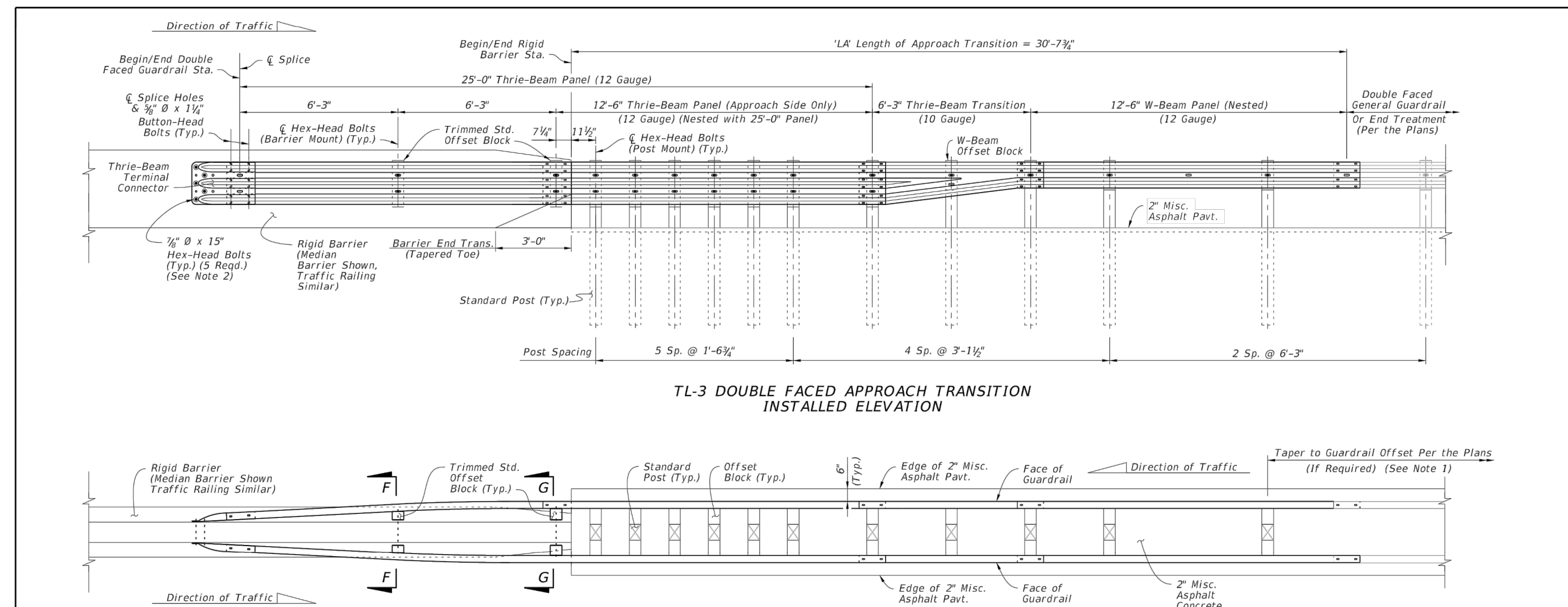
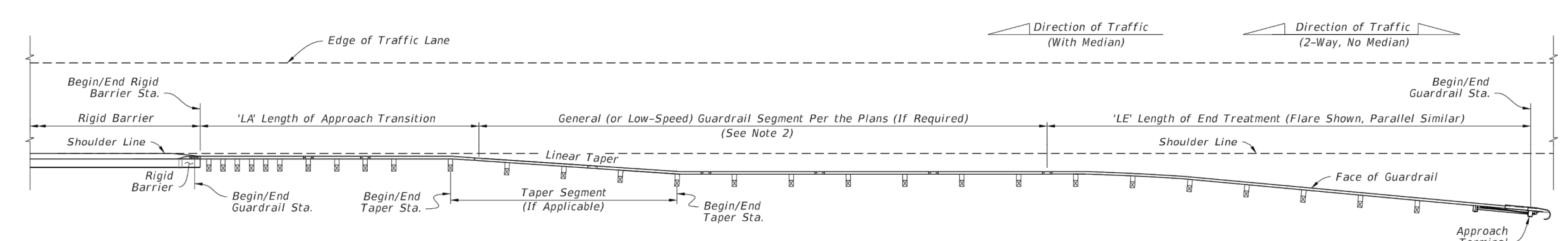
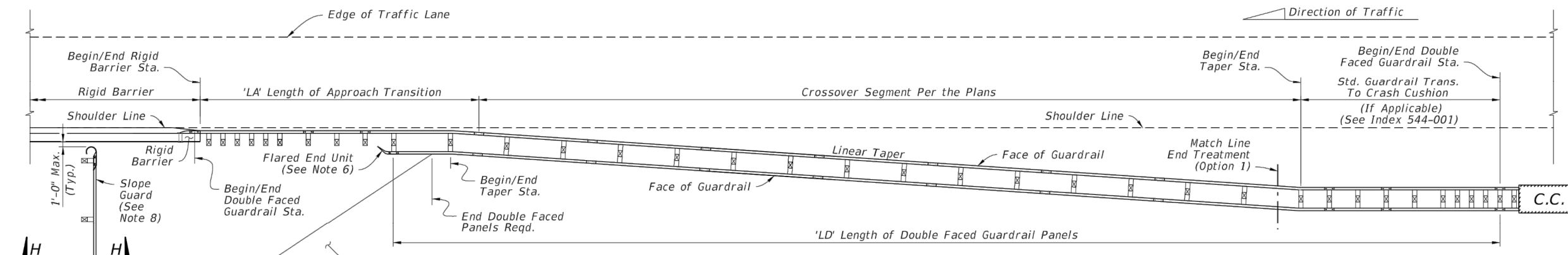


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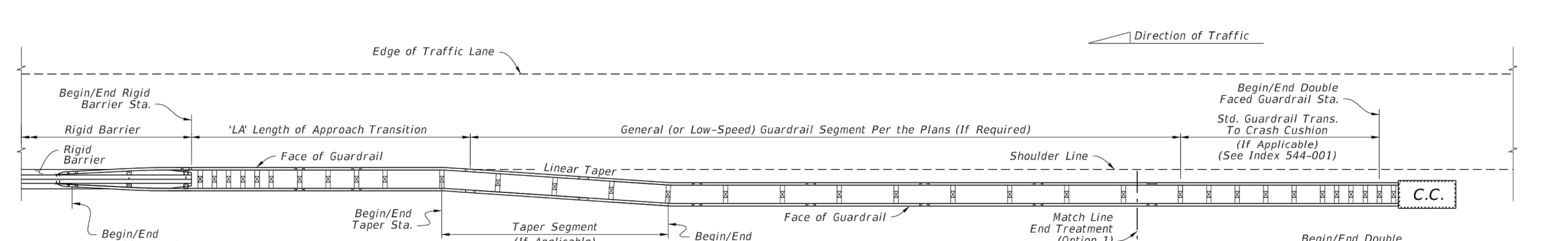
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TYPE A APPROACH TO RIGID BARRIER - PLAN VIEW
MEDIAN OR OUTSIDE SHOULDERS
(Mirror Horiz. and/or Vert. for Opposite Direction and/or Side of Road)

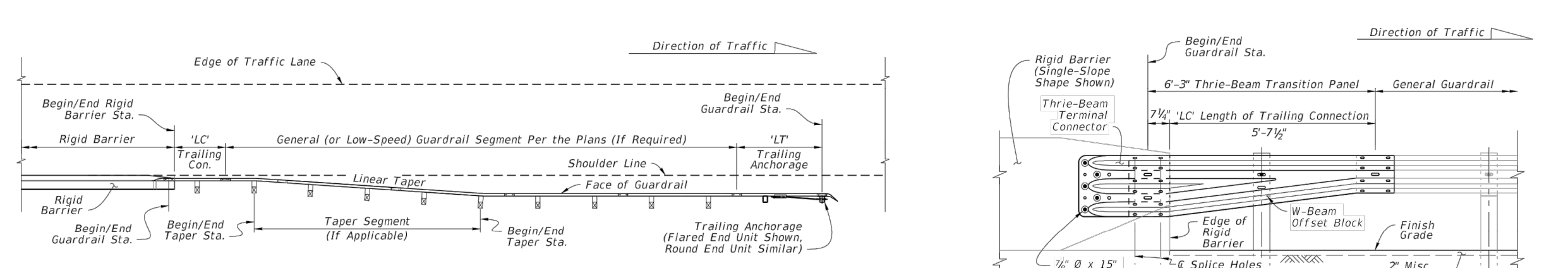


TYPE B APPROACH TO RIGID BARRIER - PLAN VIEW
CROSSOVER GUARDRAIL FOR MEDIAN SHOULDERS ONLY
DUAL BRIDGE APPROACH CONFIGURATION
(Mirror Horiz. and Vert. for Opposite Direction)



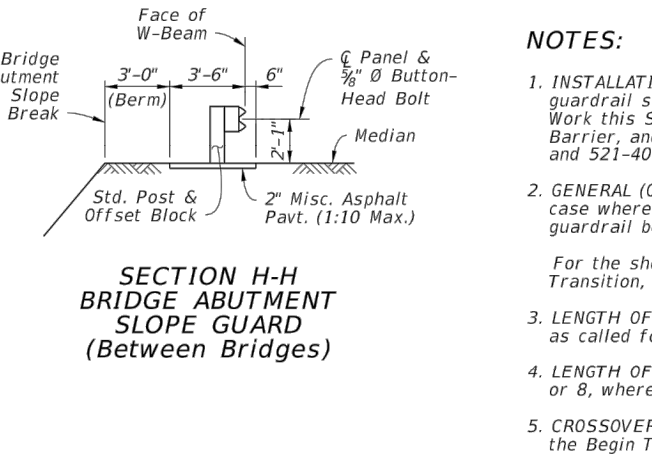
TYPE C APPROACH TO RIGID BARRIER - DOUBLE FACED GUARDRAIL
PLAN VIEW - MEDIAN SHOULDERS ONLY
(Mirror Horiz. and Vert. for Opposite Direction)

NOTES:
1. See the applicable Notes on Sheet 17.



TYPE D TRAILING CONNECTION FROM RIGID BARRIER
PLAN VIEW - MEDIAN OR OUTSIDE SHOULDER
(Mirror Horiz. and/or Vert. for Opposite Direction and/or Side of Road)

NOTES:
1. See the applicable Notes on Sheet 17.
2. LENGTH OF TRAILING ANCHORAGE: 'L'. Install the Trailing Anchorage as shown on Sheet 9, where called for in the plans.
3. THIRIE-BEAM TERMINAL CONNECTOR: Install connector and bolts as shown on Sheet 15.
4. RIGID BARRIER SINGLE SLOPE END FACE: See Concrete Barrier Wall, Index 521-001, and Traffic Railing, Indexes 521-422 and 521-423, for details.



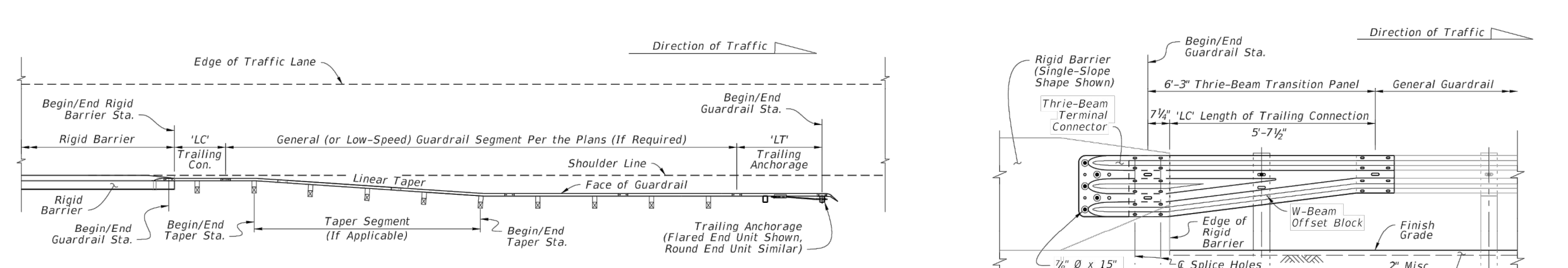
SECTION H-H BRIDGE ABUTMENT SLOPE GUARD
(Between Bridges)

NOTES:

- INSTALLATION:** The Plan Views shown are schematic only, showing example geometry for connecting guardrail segments including taper locations and Double Faced Guardrail requirements as applicable. Work this sheet with the plans, where stationing and offsets for Begin/End Guardrail, Begin/End Rigid Barrier, and Begin/End Taper are specified. For existing bridge layouts, see Index 536-002, 521-404, and 521-405.
- GENERAL (OR LOW-SPEED) GUARDRAIL SEGMENT:** Construct this segment as shown in the plans. For the case where this segment's offset differs from the Approach Transition offset, linearly taper the guardrail between the Begin/End Taper Stations and offsets as specified in the plans. For the shortest length case of a direct connection between the End Treatment and the Approach Transition, this segment may be omitted as shown in the plans.
- LENGTH OF APPROACH TRANSITION 'LA':** Install the Approach Transition as shown per Sheet 13 or 14 as called for in the plans.
- LENGTH OF END TREATMENT 'LE':** Install the Approach Terminal End Treatment as shown per Sheet 7 or 8, where called for in the plans. Use the corresponding APL drawings for construction details.
- CROSSOVER GUARDRAIL (FOR TYPE B APPROACH):** Install the Crossover Segment tapering linearly from the Begin Taper Sta. and offset to the End Taper Sta. and offset as specified in the plans.
- LENGTH OF DOUBLE FACED GUARDRAIL PANELS, 'LD' (FOR TYPE B APPROACH):** Terminate the Double Faced Guardrail panels as shown based upon the 30' line measured from the hazard on the opposite side of the median. Extend the panel segment longer than the dimension 'LD' as needed for the Panel's end Bolt Slot to align with a post Bolt Hole.
- END TREATMENT OPTIONS (FOR TYPE B & C APPROACH):** For Double Faced applications, use either a Double Faced Approach Terminal Assembly per Sheet 8 or a Crash Cushion per Index 544-001. For other Option, meet the 1:10 adjacent grading requirements for Approach Terminals as shown on Sheet 8.
- SLOPE GUARD:** Where indicated in the plans, install a Guardrail segment between bridge approaches and offset from the bridge abutment's Slope Break as shown. Install posts at the end Bolt slots of the panel system. Use post spacing of either 3'-1 1/2" or 6'-3", as needed to correctly fit system between barriers. The system may also be lengthened to fit by installing two Rounded End Units as defined on Sheet 9.

LAYOUT TO RIGID BARRIER - APPROACH ENDS

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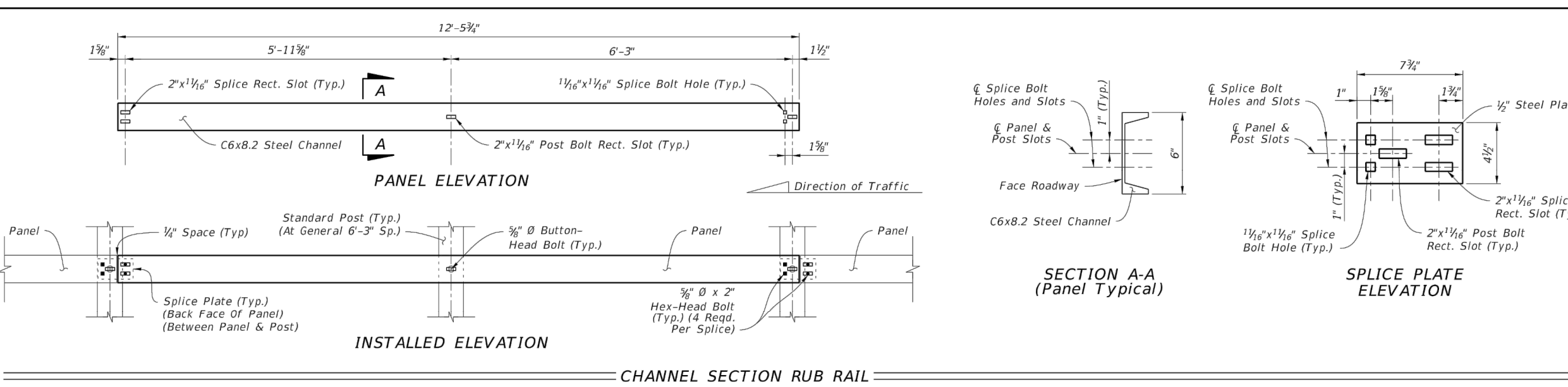


TRAILING END TRANSITION CONNECTION TO RIGID BARRIER - INSTALLED ELEVATION

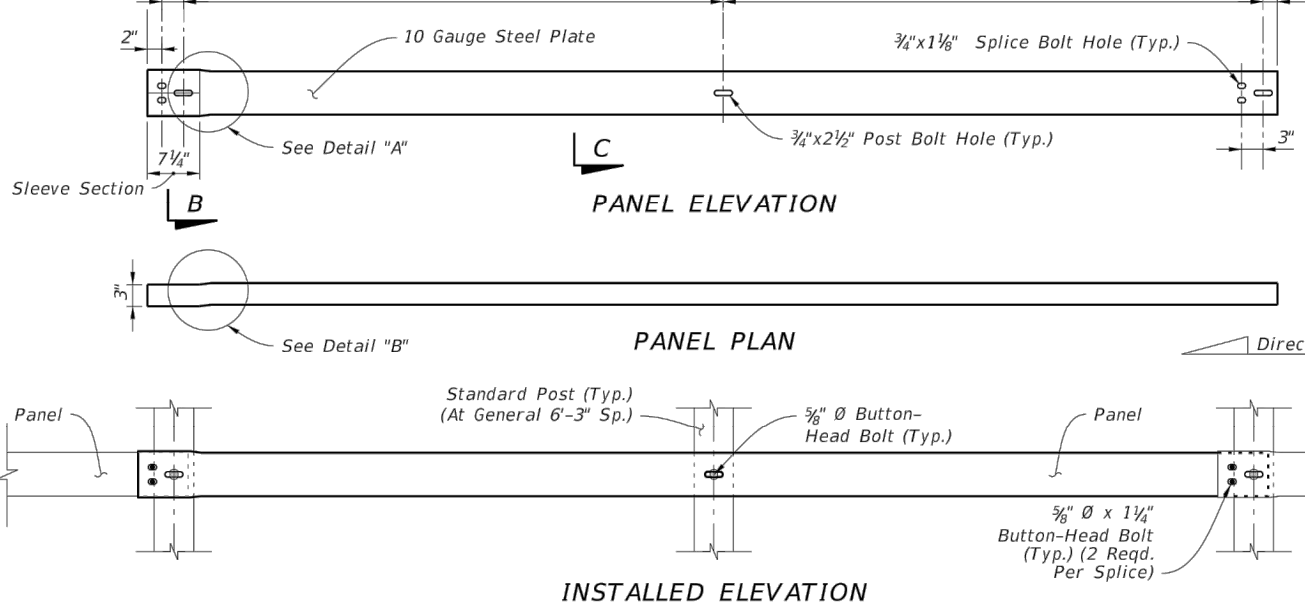
NOTES:
1. See the applicable Notes on Sheet 17.

LAYOUT TO RIGID BARRIER - TRAILING ENDS

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CHANNEL SECTION RUB RAIL



BENT-PLATE PANEL RUB RAIL

SECTION A-A (Panel Typical)

SECTION B-B (Panel Sleeve End)

SECTION C-C (Panel Typical)

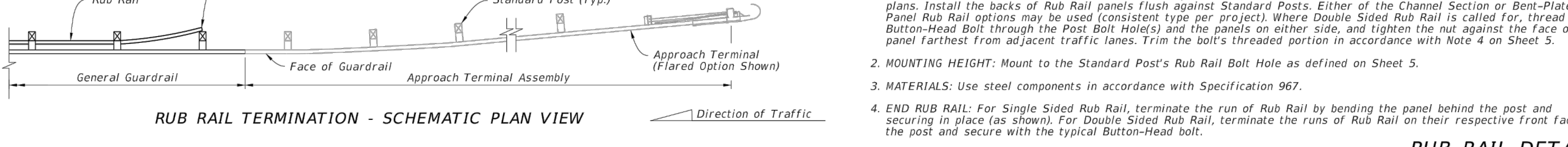
DETAIL A (Sleeve Transition Elevation)

DETAIL B (Sleeve Transition Plan)

NOTES:

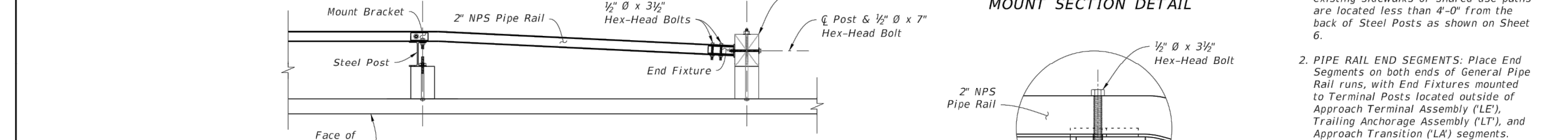
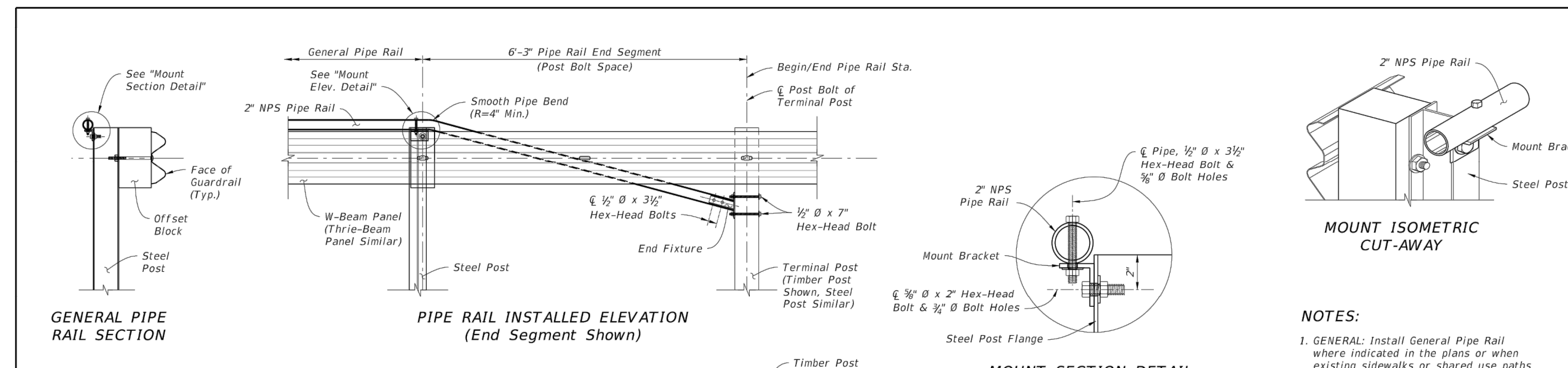
- GENERAL:** Install Rub Rail where called for in the plans. Position as shown on Sheet 6 unless otherwise shown in the plans. Install the backs of Rub Rail panels flush against Standard Posts. Either of the Channel Section or Bent-Plate Panel Rub Rail options may be used consistent type per project. Where Double Sided Rub Rail is called for, thread the Panel Head Bolt through the Post Bolt Holes and the panels on either side, and tighten the nut against the face of the panel furthest from adjacent traffic lanes. Trim the bolts threaded portion in accordance with Note 4 on Sheet 5.
- MOUNTING HEIGHT:** Mount to the Standard Post's Rub Rail Bolt Hole as defined on Sheet 5.
- MATERIALS:** Use steel components in accordance with Specification 967.
- END RUB RAIL:** For Single Sided Rub Rail, terminate the run of Rub Rail by bending the panel behind the post and securing in place (as shown). For Double Sided Rub Rail, terminate the runs of Rub Rail on their respective front face of the post and secure with the typical Button-Head Bolt.

RUB RAIL DETAILS



RUB RAIL TERMINATION - SCHEMATIC PLAN VIEW

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PIPE RAIL INSTALLED PLAN END AT TIMBER POST OPTION

PIPE RAIL INSTALLED PLAN END AT STEEL POST OPTION

MOUNT ISOMETRIC CUT-AWAY

MOUNT SECTION DETAIL

MOUNT ELEVATION DETAIL (Back View - Mirrored)

MOUNT BRACKET DETAIL

ELEVATION SECTION

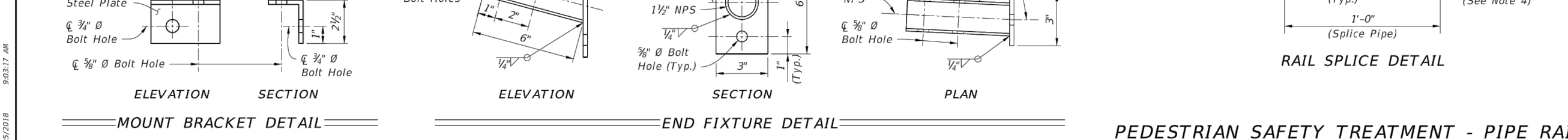
ELEVATION SECTION

NOTES:

- GENERAL:** Install General Pipe Rail where indicated in the plans or when existing sidewalks or shared use paths are located less than 4'-0" from the back of Steel Posts as shown on Sheet 6.
- PIPE RAIL END SEGMENTS:** Place End Segments on both ends of General Pipe Rail runs, with End Fixtures mounted to Terminal Posts located outside of Approach Terminal Assembly (LE), Trailing Anchorage Assembly (TA), and Approach Transition (LA) segments.
- MATERIALS:** Use steel brackets, fixtures, and pipes in accordance with Specification 967.
- RAIL SPLICES:** Install Rail Splices to join pieces of 2" NPS Pipe Rail into a continuous system. Place splices as needed, at a spacing of 18'-0" or greater. Orient the head of bolt on the top of the pipe.

RAIL SPLICE DETAIL

PEDESTRIAN SAFETY TREATMENT - PIPE RAIL



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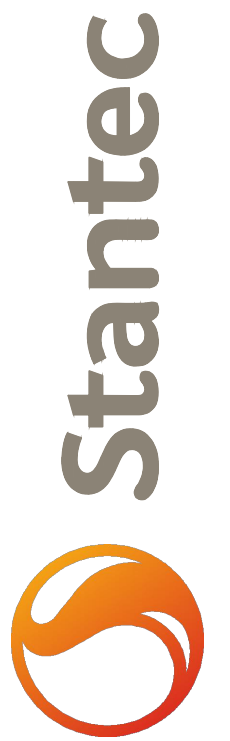
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TALLAHASSEE FL
FDOT GUARDRAIL DETAILS

Seal

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File Name: 13796-TITLE BLOCK

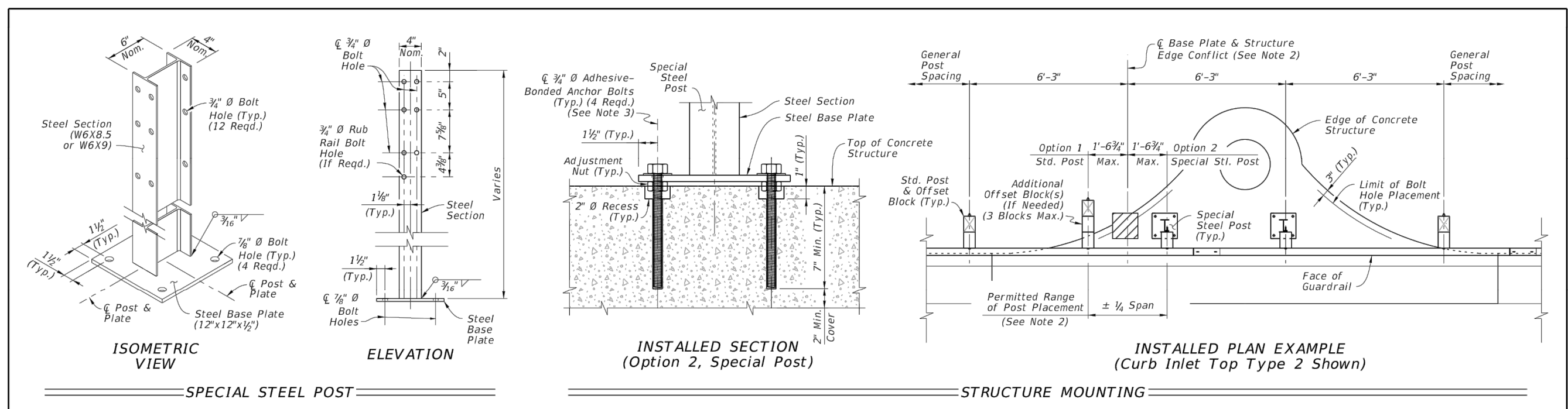
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Revision Sheet



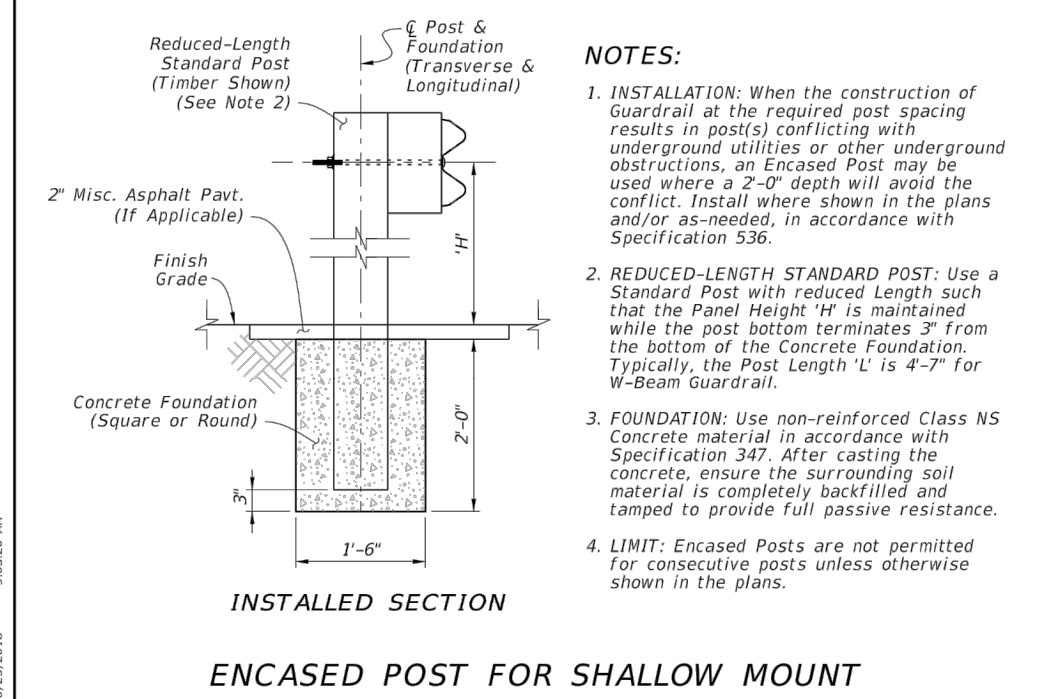
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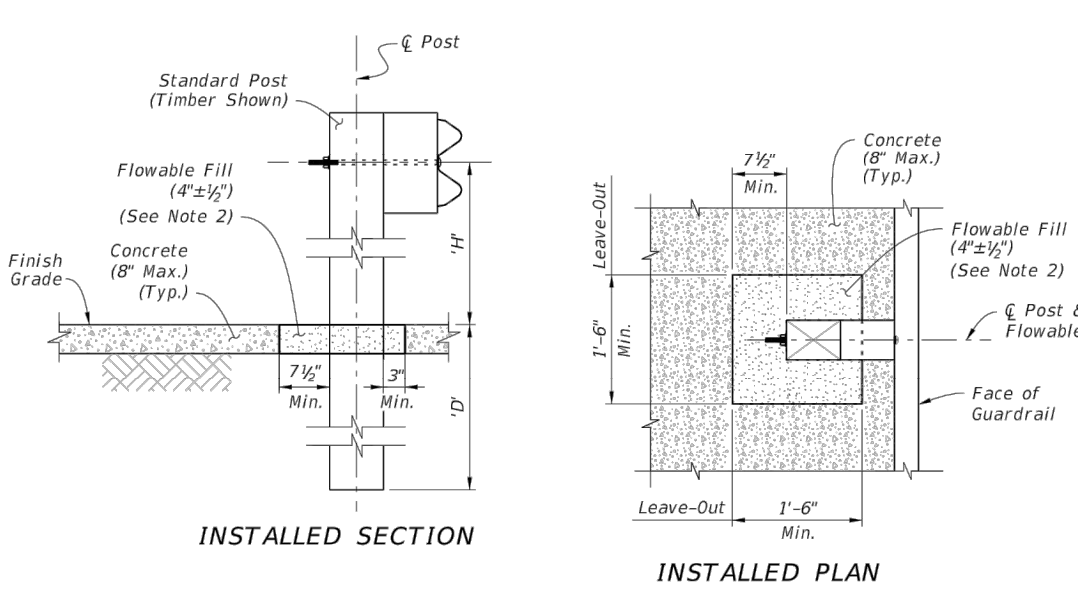


- NOTES:**
- INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) located atop culverts, inlets, pier footings, or similar concrete structures, a Special Steel Post may be substituted for a Standard Post. Install where shown in the plans and/or as-needed, in accordance with Specification 536.
 - EDGE CONFLICT:** When a required post location causes an Edge Conflict with the structure, where the Steel Base Plate is not located entirely on the structure at least 3" from the Edge of Concrete, the longitudinal post location may be altered by up to 1'-6" (Quarter Span) from the original required spacing location to prevent the Edge Conflict. With the post location adjusted, use a Std. Post mounted in soil (Option 1) or a Special Steel Post with its Base Plate mounted entirely on the structure (Option 2). Maintain the original required spacing locations upstream and downstream of the structure.
 - BASE PLATE MOUNT:** Install Special Steel Posts as shown using steel Adhesive-Bonded Anchor Bolts in accordance with Specifications 536. Use 1/2" Hex-Head Bolts for structures less than 9" deep as defined in the Specification.
 - PANEL MOUNT TO ADJUSTED POST:** Punch additional 3/4"x2 1/2" Post Bolt Slot(s) in the W-Beam or Thrie-Beam Panel only where needed to mount the panel to a post in an adjusted location. Meet the Panel Post Bolt Slot requirements of Specification 536.
 - MATERIALS:** Use steel base plates in accordance with Specification 536.

SPECIAL STEEL POST FOR CONCRETE STRUCTURE MOUNT

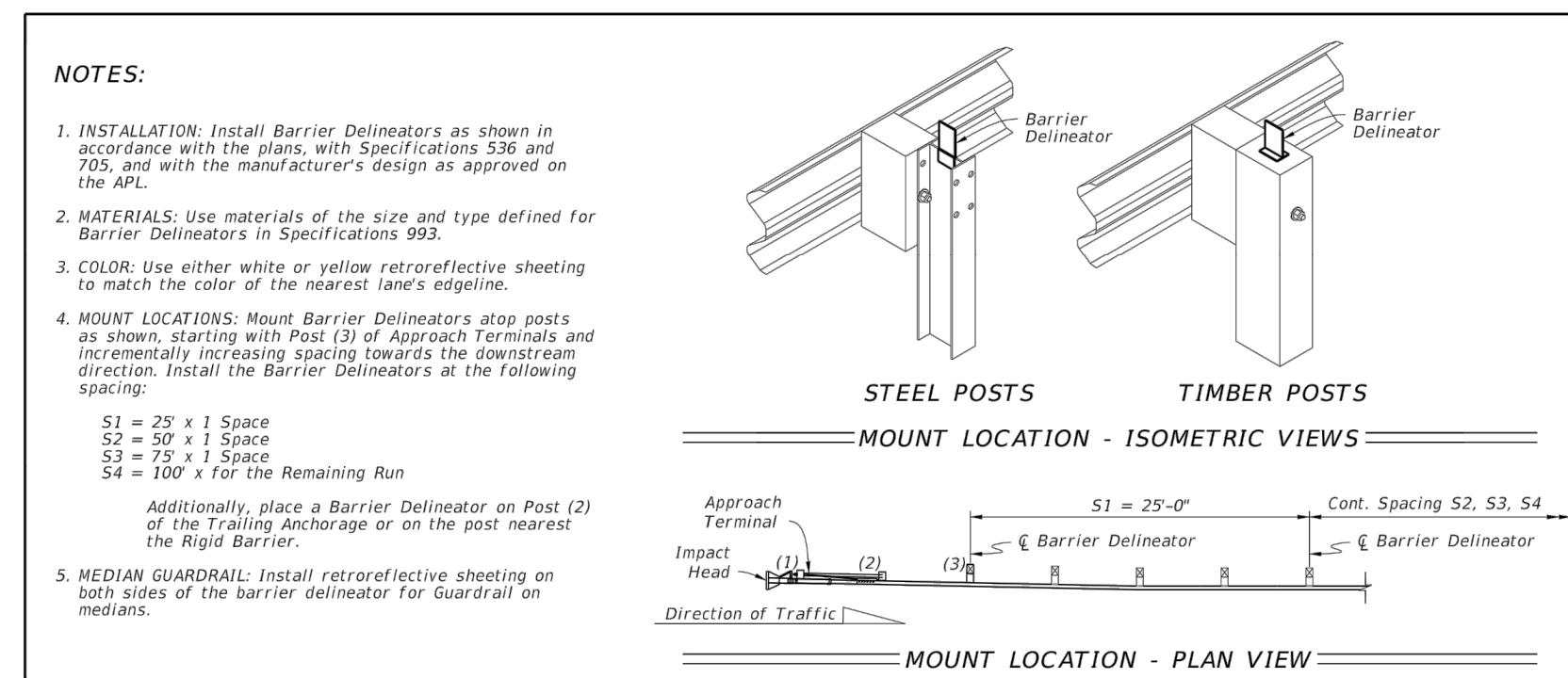


- NOTES:**
- INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) conflicting with underground utilities or other underground obstructions, an Encased Post may be used where a 2'-0" depth will avoid the conflict. Install where shown in the plans and/or as-needed, in accordance with Specification 536.
 - REDUCED-LENGTH STANDARD POST:** Use a Standard Post with reduced Length such that the Panel Height "H" is maintained while the post bottom terminates 2" from the bottom of the Concrete Foundation. Typically, the Post Length "L" is 4'-7" for W-Beam Guardrail.
 - FOUNDATION:** Use non-reinforced Class NS Concrete material in accordance with Specification 347. After casting the concrete, ensure the surrounding soil material is completely backfilled and tamped to provide full passive resistance.
 - LIMIT:** Encased Posts are not permitted for consecutive posts unless otherwise shown in the plans.



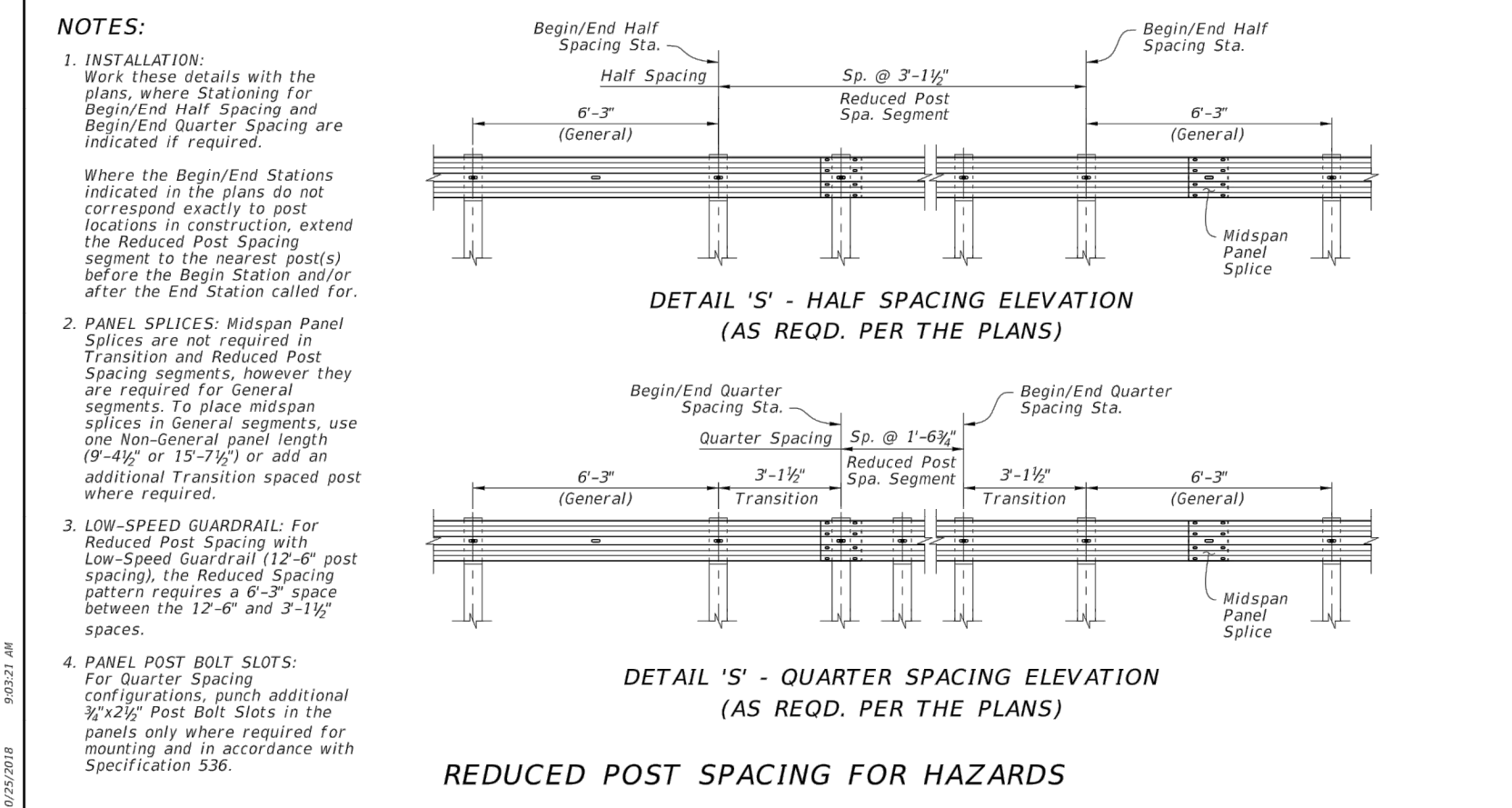
- NOTES:**
- INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) placed within a concrete surface (typically a sidewalk), use a Frangible Leave-Out around the post base as shown. Install where shown in the plans and/or as-needed, in accordance with Specification 536. For the required 1'-6" x 1'-6" Leave-Out, smoothly cut the existing concrete surface or form-up the square shape when an application has new surrounding concrete. Ensure Flowable Fill surface is smooth and even with the adjacent concrete surface.
 - MATERIALS:** Use Non-Excavatable Flowable Fill in accordance with Specification 121, not to exceed 150 psi.

LAST REVISION 11/01/17	DESCRIPTION:	FY 2019-20 STANDARD PLANS	INDEX 536-001	SHEET 21 of 22
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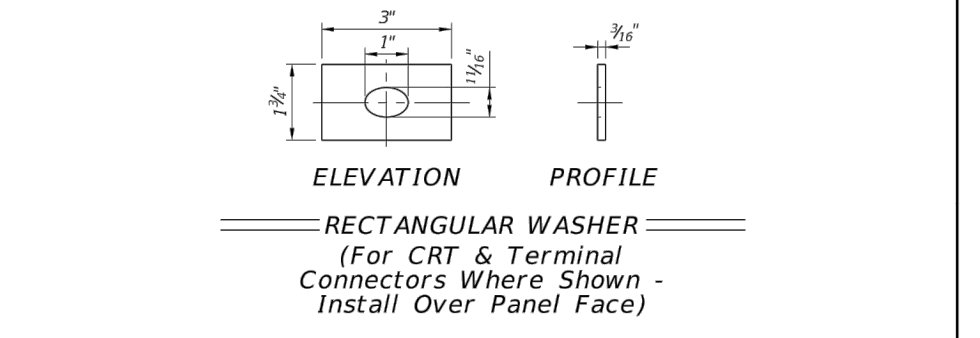
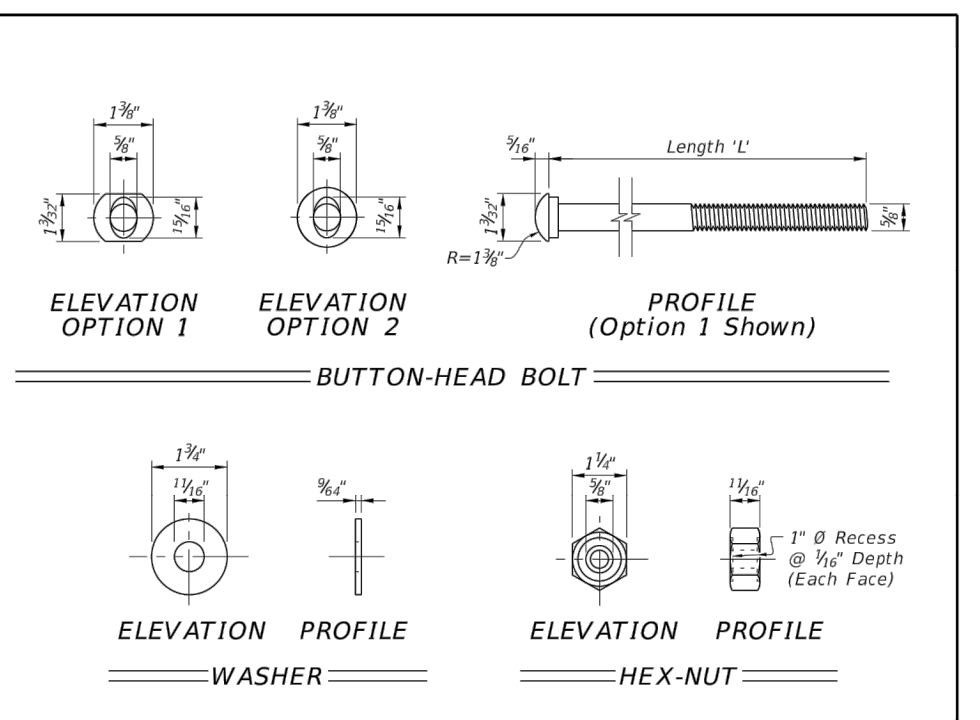


- NOTES:**
- INSTALLATION:** Install Barrier Delineators as shown in accordance with the plans, with Specifications 536 and 705, and with the manufacturer's design as approved on the APJ.
 - MATERIALS:** Use materials of the size and type defined for Barrier Delineators in Specifications 993.
 - COLOR:** Use either white or yellow retroreflective sheeting to match the color of the nearest lane's edge line.
 - MOUNT LOCATIONS:** Mount Barrier Delineators atop posts as shown, starting with Post (3) of Approach Terminals and incrementally increasing spacing towards the downstream direction. Install the Barrier Delineators at the following spacing:
S1 = 25' x 1 Space
S2 = 50' x 1 Space
S3 = 75' x 1 Space
S4 = 100' x for the Remaining Run
Additionally, place a Barrier Delineator on Post (2) of the Trailing Anchorage or on the post nearest the Rigid Barrier.
 - MEDIAN GUARDRAIL:** Install retroreflective sheeting on both sides of the barrier delineator for Guardrail on medians.

BARRIER DELINEATORS



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BUTTON-HEAD BOLT LENGTHS:

Application(s)	Length "L":	Min. Thread Length:
Panel Splice	12"	Full Length
Steel Post Mount - Single Faced Guardrail	18"	4"
Timber Post Mount - Single Faced Guardrail	18"	4"
Steel or Timber Post Mount - Double Faced Guardrail	25"	4"
Modified Thrie-Beam Panel / Terminal Connector Splice	2"	Full Length

- NOTES:**
- Use nuts, bolts, and washers in accordance with Specification 967.
 - For Steel Posts with Double Faced Guardrail, the single 25" Length bolt (one bolt thru both post flanges) may be replaced with two 10" Length bolts (one bolt per post flange).
 - Use bolts listed in Table 2 in corresponding locations shown in this Index.

LAST REVISION 11/01/18	DESCRIPTION:	FY 2019-20 STANDARD PLANS	INDEX 536-001	SHEET 22 of 22
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By	App'd.	Y.Y.A.M.M.D.D.
Revision	Issued	Y.Y.A.M.M.D.D.

Client/Project
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
TALLAHASSEE, FL
FDOT GUARDRAIL
DETAILS

Project Number: 215613796
File Name: 13796-TITLE BLOCK

JG	CB	AM	20.01.06
Dwn	Chk'd	Dsgn	Y.Y.A.M.M.D.D.

Drawing No. C-525
Revision Sheet

Revision	By	App'd.	Y.Y.MM.DD

Client/Project:
LEON COUNTY
PUBLIC WORKS DEPARTMENT
MERIDIAN ROAD
DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL
BEST MANAGEMENT PRACTICES

Project Number: **215613796**
 File Name: 215613796-C511-BMP

JG CB AM
 Dwn Ck'd Dsgn Y.Y.MM.DD

Drawing No. **C-527**
 Revision Sheet

0 of

Chapter 3: Temporary BMPs for Erosion and Sedimentation Control

11. When used to control sediments from a steep slope, silt fences should be placed away from the toe of the slope for increased holding capacity (see Figure 3.4.d).

12. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

STANDARD DETAIL
TRENCH WITH NATIVE BACKFILL

ALTERNATE DETAIL
TRENCH WITH GRAVEL

NOTES:
 1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTIGUOUS TO MAXIMIZE FLOODING EFFICIENCY.

2 SILT FENCE DETAILS
 NTS

SWPP NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AN NPDES CONSTRUCTION PERMIT PRIOR TO CONSTRUCTION ACTIVITIES AND FOR COMPLIANCE WITH ALL STATE, LOCAL, AND FEDERAL PERMITS RELATED TO THIS PROJECT.
- THE EROSION CONTROL MEASURES SET FORTH IN THESE PLANS ARE INTENDED AS MINIMUM STANDARDS. ALL EROSION CONTROL REQUIRED SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN (SWPP). CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL EXPOSED AREAS, COST OF WHICH SHALL BE INCIDENTAL TO THE PROJECT.
- AT THE REQUIRED PRECONSTRUCTION MEETING, CONTRACTOR SHALL PROVIDE IN WRITING THE NAME AND TELEPHONE NUMBER OF THE STORMWATER CONTROL OFFICER TO THE OWNER, THE OWNER'S DESIGNATED REPRESENTATIVE, LEON COUNTY, AND NWFWM. THE OFFICER SHALL BE CERTIFIED UNDER THE FLORIDA STORMWATER, EROSION, AND SEDIMENT CONTROL INSPECTOR TRAINING PROGRAM AND SHALL BE AVAILABLE IN PERSON OR BY PHONE AT ALL TIMES DURING CONSTRUCTION.
- THE STORMWATER CONTROL OFFICER SHALL BE RESPONSIBLE FOR CONTINUALLY MONITORING WEATHER CONDITIONS AND EVALUATE THE EFFECTIVENESS OF THE CONTROL MEASURES THROUGHOUT ALL PHASES OF CONSTRUCTION.
- AS CONSTRUCTION PROGRESSES, THE STORMWATER CONTROL OFFICER SHALL MAKE ADJUSTMENTS AND/OR INSTALL ADDITIONAL MEASURES TO PREVENT DIRECT FLOW OR TRACKING OF SEDIMENTS ONTO ADJACENT PROPERTY, CONSERVATION AREAS, PUBLIC STREETS, OR DRAINAGE SYSTEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REVISIONS TO AND IMPLEMENTATION OF THE SWPP WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING AN INSPECTION WHEN ADDITIONS OR MODIFICATIONS TO BEST MANAGEMENT PRACTICES (BMPs) ARE NECESSARY TO CORRECT OBSERVED PROBLEMS. REVISIONS SHALL OCCUR WHENEVER:
 - A SIGNIFICANT CHANGE IN THE DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE AT THE CONSTRUCTION SITE HAS A SIGNIFICANT EFFECT ON THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE UNITED STATES NOT PREVIOUSLY ADDRESSED IN THE DOCUMENT.
 - DISCHARGES ARE CAUSING WATER QUALITY EXCEEDANCES, AS DEFINED BY THE EPA, OR THE BMPs ARE INEFFECTIVE IN MINIMIZING POLLUTANTS IN STORMWATER DISCHARGE FROM THE CONSTRUCTION SITE.
- TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES SHALL BE PLACED ADJACENT TO ANY WATERWAY OR DRAINAGE FEATURE PRIOR TO CONSTRUCTION AND REMAIN IN PLACE UNTIL CONSTRUCTION OF THE FEATURE IS COMPLETE AND ALL AREAS SUITABLY STABILIZED.
- SEDIMENTS TRACKED FROM VEHICLES ONTO ADJACENT PROPERTY, ROADWAYS OR INTO STORM DRAINAGE SYSTEMS SHALL BE RECOVERED AND DISPOSED OF PROPERLY.
- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT LOCATIONS DESCRIBED IN THE APPROVED SWPP OR AS DIRECTED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
- IF ADDITIONAL SEDIMENT AND EROSION CONTROL MEASURES BECOME REQUIRED DURING THE PROJECT'S DURATION, CONTRACTOR SHALL MAKE ADJUSTMENTS AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT SITE. SHOULD CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE OWNER OR THE OWNER'S DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL PROVIDE THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. SINCE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, SUCH PRODUCTS DO NOT NEED THE MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE AND WHO SHALL PROTECT THE AREA OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE.
- ALL VEGETATIVE MATERIALS SHALL BE SUBJECT TO INSPECTION PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES SHALL BE REJECTED FOR USE ON THE PROJECT. CONTRACTOR SHALL FURNISH THE OWNER OR OWNER'S DESIGNATED REPRESENTATIVE, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICE DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW, AND MULCH MATERIAL ARE FREE OF NOXIOUS WEEDS.
- EQUIPMENT MAINTENANCE AND REPAIR SHALL BE LIMITED TO ONE AREA OF THE PROJECT. AN ADEQUATE NUMBER OF WASTE DISPOSAL RECEPTACLES FOR LIQUID AND SOLID WASTE SHALL BE PROVIDED. WASTE SHALL BE DISPOSED OF PROPERLY OFF-SITE. THE MAINTENANCE AREAS SHALL BE INSPECTED AND CLEANED DAILY. CARE SHALL BE TAKEN THAT ANY OILS, GASOLINE, GREASE, SOLVENTS, AND OTHER POTENTIAL POLLUTANTS SHALL NOT BE WASHED OFF-SITE EITHER DIRECTLY OR INDIRECTLY, THROUGH THE STORMWATER CONVEYANCE SYSTEMS.
- WASTE COLLECTION AND DISPOSAL – A SUFFICIENT NUMBER OF WASTE AND TRASH RECEPTACLES SHALL BE PROVIDED AT ALL TIMES. RECEPTACLES AND OTHER WASTE COLLECTION AREAS SHALL BE KEPT NEAT AND ORDERLY. TRASH CANS AND DUMPSTERS SHALL HAVE COVERS TO PREVENT THE ENTRANCE OF RAINFALL. ALL WASTE MATERIAL SHALL BE COLLECTED AND DISPOSED AT A SUITABLE LANDFILL. TRASH COLLECTION POINTS SHALL BE LOCATED WHERE THEY WILL BE LEAST IMPACTED BY CONCENTRATED STORMWATER RUNOFF.
- DEMOLITION AND ACCESS AREAS – DUST CONTROL TECHNIQUES SHALL BE USED DURING DEMOLITION WHERE LARGE AMOUNTS OF DUST ARE GENERATED. IF WATER OR SLURRY IS USED TO CONTROL DUST, IT SHALL BE CONTAINED ON-SITE.
- WASHING AREA – AN AREA SHALL BE DESIGNATED BY THE CONTRACTOR FOR WASHING VEHICLES AND WILL BE LOCATED WHERE THE RUNOFF CAN BE COLLECTED IN A TEMPORARY HOLDING OR SEEPAGE BASIN. WASH AREA SHALL HAVE GRAVEL BASE.
- STORAGE OF CONSTRUCTION MATERIALS – AN ISOLATED AREA SHALL BE DESIGNATED TO STORE CHEMICALS, CEMENTS, SOLVENTS, PAINTS OR OTHER POTENTIAL POLLUTANTS. THE AREA SHALL BE LOCATED AS TO ELIMINATE RUNOFF POLLUTION. TOXIC CHEMICALS AND MATERIALS, SUCH AS PESTICIDES, PAINTS, AND ACIDS, SHALL BE STORED ACCORDING TO THE MANUFACTURER'S GUIDELINES. CARE SHALL BE TAKEN IN THE USE OF THESE MATERIALS TO AVOID ACCIDENTAL SPILLS. GROUNDWATER RESOURCES SHALL BE PROTECTED BY THE USE OF IMPERVIOUS MATERIALS ON ANY GROUND SURFACE WHERE TOXIC LIQUIDS ARE TO BE OPENED AND STORED.
- SANITARY FACILITIES – ADEQUATE SANITARY FACILITIES SHALL BE PROVIDED DURING ALL CONSTRUCTION PHASES FOR WORKERS ACCORDING TO APPLICABLE HEALTH AND SAFETY PRACTICES AND REGULATIONS.
- ALL DISTURBED AREAS UNTOUCHED LONGER THAN 14 DAYS MUST BE STABILIZED WITH QUICK GROW GRASS SEED AND MULCH.

GENERAL NOTES

- 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 off-site 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.
- The Contractor may propose an alternative technique to minimize off-site tracking of sediment. The alternative must be reviewed and approved by the Engineer prior to its use.
- All materials spilled, dropped, 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.
- 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.
- 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' x 100 ft.³
 - 30' x 50' x 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, synthetic bales or silt fence shall be placed along the entire length.
- The swale ditch draining the STPD shall have a 0.02X minimum and a 1.0X maximum grade along the STPD and to the sediment pit.
- Mitered end sections are not required when the sidedrain pipe satisfies the clear zone requirements.
- The STPD shall be maintained in a condition that will allow it to perform its function. To prevent off-site tracking, the STPD shall be rinsed (daily when in use) to move accumulated mud downward thru the stone. Additional stabilization of the vehicular route leading to the STPD may be required to limit the mud tracked.
- 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, sediment removal and disposal, water, rinsing and cleaning of the STPD and cleaning of public roads, grassing and sod. Synthetic Bale or Bale Type Barrier shall be paid for under the contract unit price for Synthetic Bales, LF. Silt fence shall be paid for under the contract unit price for Staked Silt Fence, LF.
- 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 location.

TRANSITION DETAIL

RURAL CONNECTION DETAIL

SECTION AA

1 SOIL TRACKING PREVENTION DEVICE DETAILS
 NTS

Typical Layouts
 Streams, Ponds, and Lakes (Protected and Non-Tidal)

Tidal Waters and/or Heavy Wind and Wave Action

Orientation When Installed (Tidal Situation - Type III)

NOTE: ANCHORING WITH BUOYS, AS SHOWN, REMOVES ALL VERTICAL FORCES FROM THE CURTAIN. HENCE, THE CURTAIN WILL NOT SINK FROM WIND OR CURRENT LOADS.

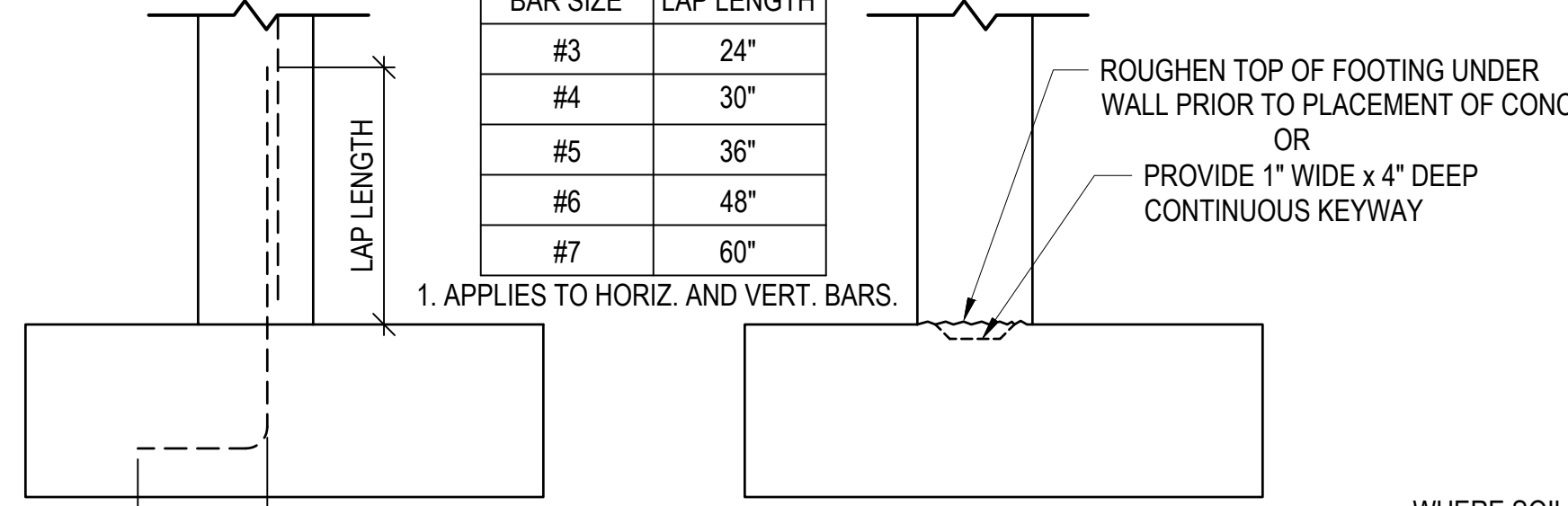
3 TURBIDITY BARRIER DETAILS
 NTS

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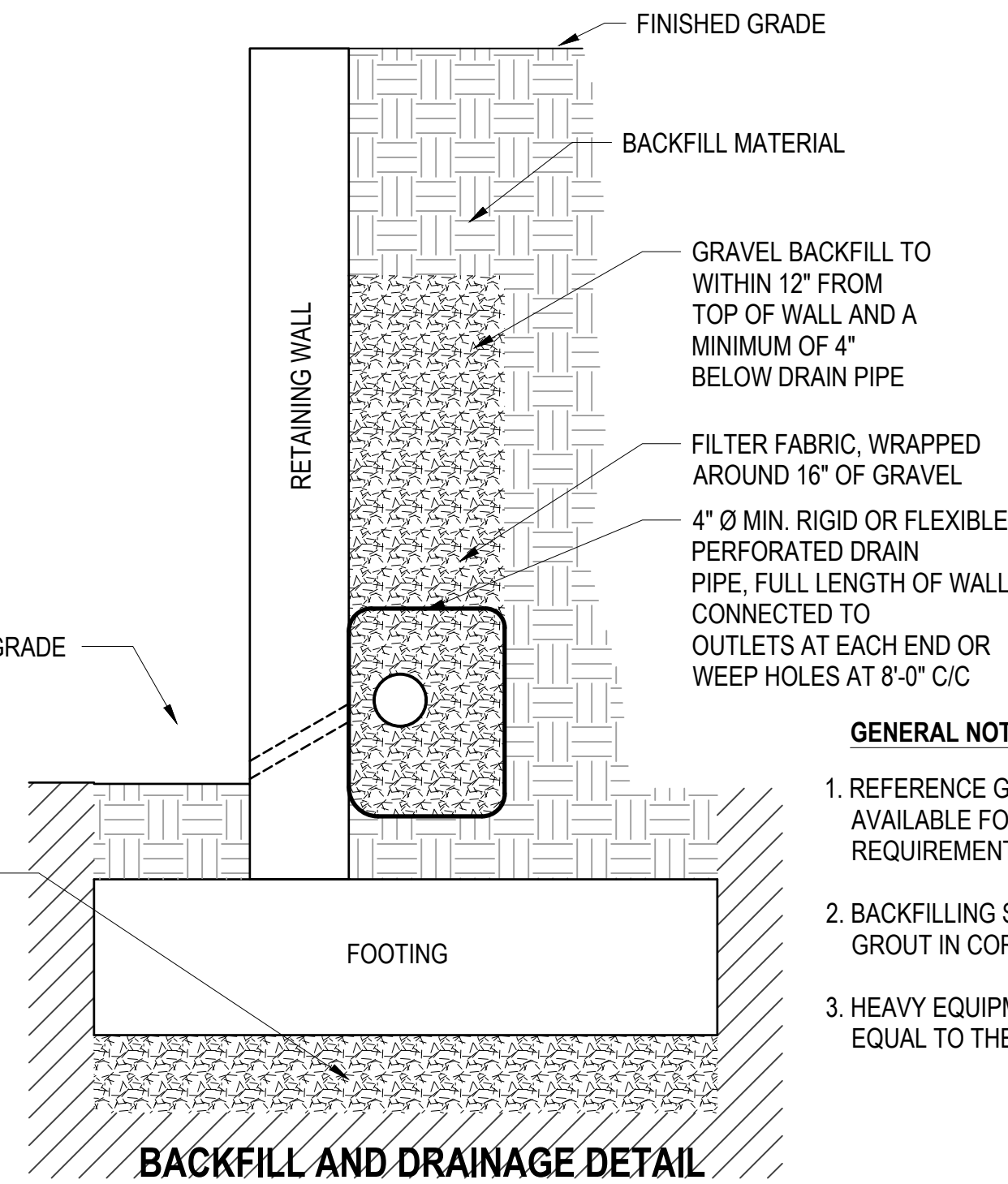
GENERAL NOTES

1. THE MIN. CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3,500 PSI FOR FOUNDATIONS AND 4,000 PSI FOR WALLS. CONCRETE WORK SHALL COMPLY WITH ACI 318.
2. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 AND SHALL HAVE A MIN. YIELD STRENGTH OF 60,000 PSI.
3. DOWELS CAN BE LAPPED ABOVE THE FOOTING IN ACCORDANCE WITH "TYPICAL DOWEL AND KEYWAY DETAIL."

LAP SPLICE SCHEDULE	
BAR SIZE	LAP LENGTH
#3	24"
#4	30"
#5	36"
#6	48"
#7	60"

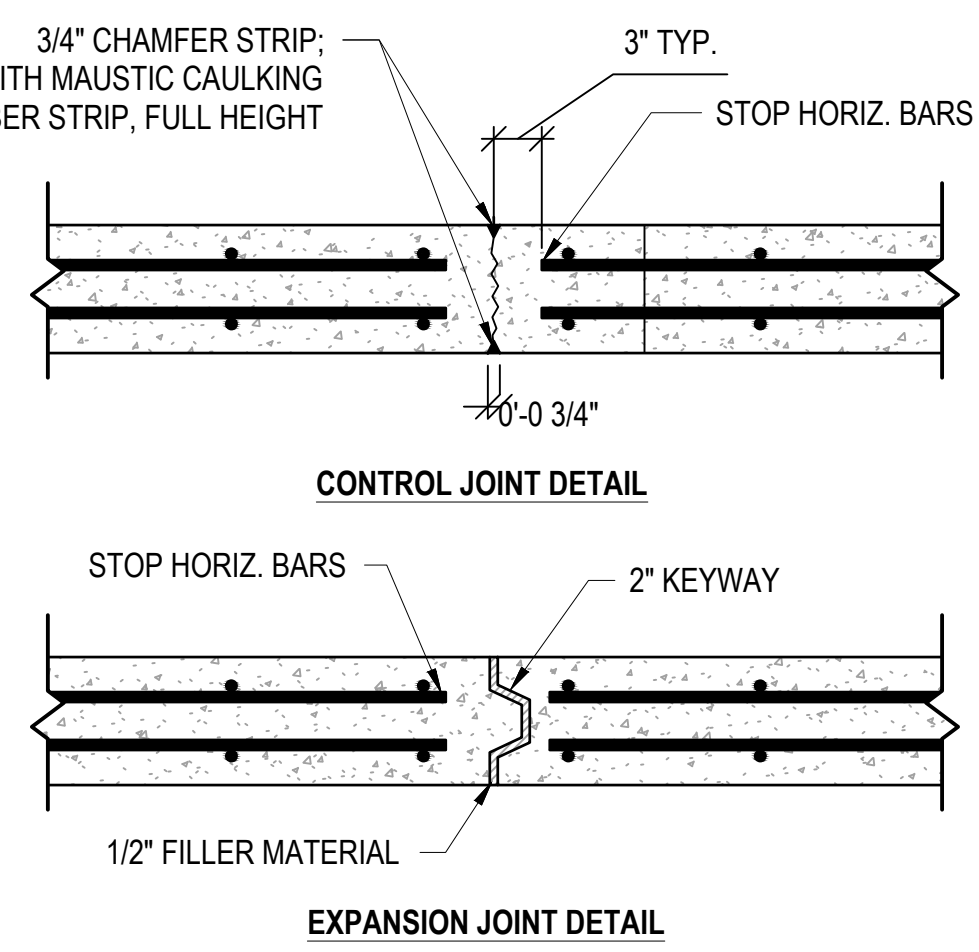


TYPICAL DOWEL AND KEYWAY DETAIL



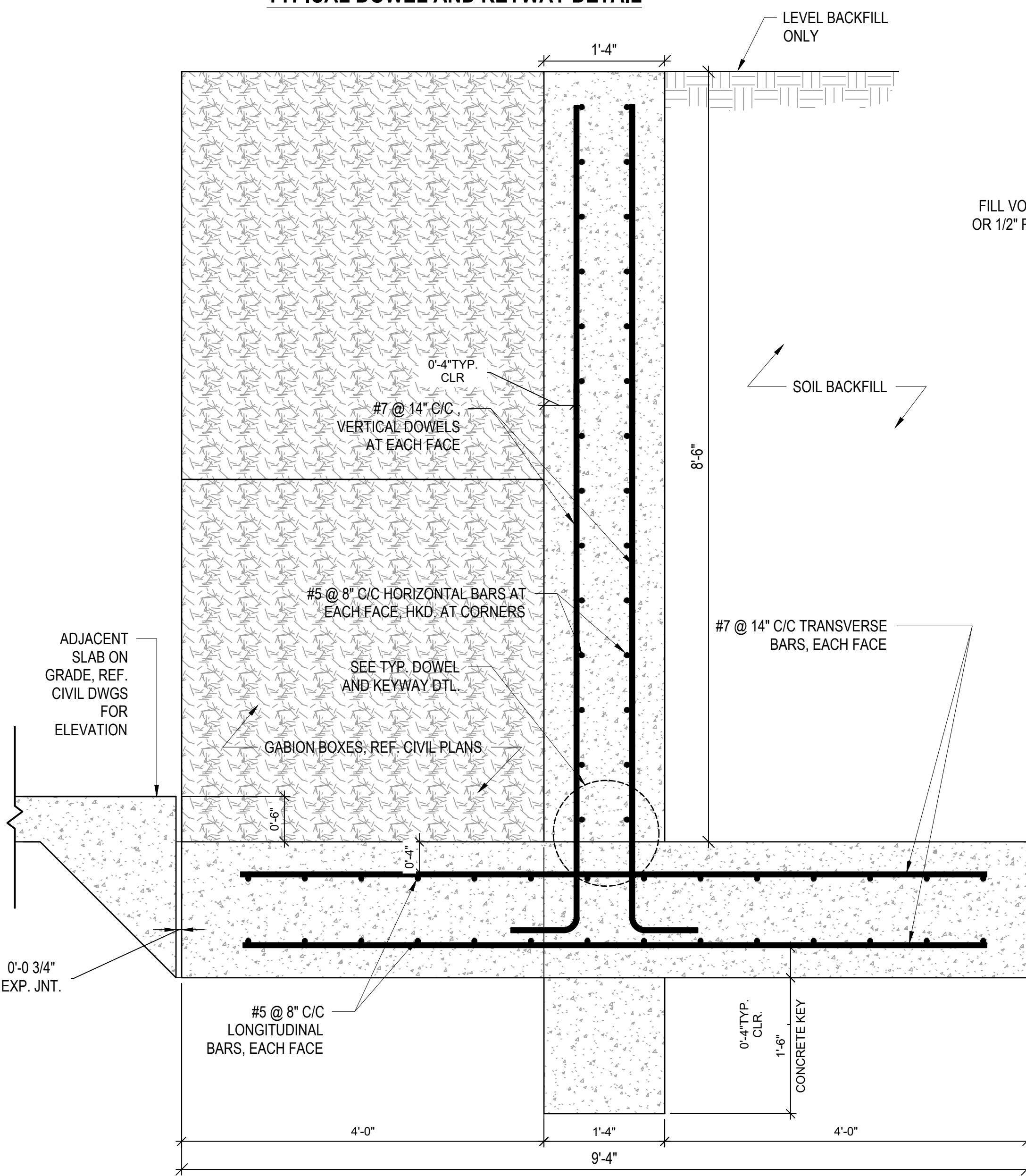
- GENERAL NOTES**
1. REFERENCE GEOTECHNICAL REPORT FOR ALL FILL REQUIREMENTS IF AVAILABLE FOR THE PROJECT. REPORT SHALL GOVERN OVER FILL REQUIREMENTS SHOWN IN DETAIL.
 2. BACKFILLING SHALL NOT BE PERMITTED UNTIL 7 DAYS AFTER PLACING GROUT IN CORES.
 3. HEAVY EQUIPMENT SHALL MAINTAIN A DISTANCE AWAY FROM THE WALL EQUAL TO THE WALL'S HEIGHT.

BACKFILL AND DRAINAGE DETAIL



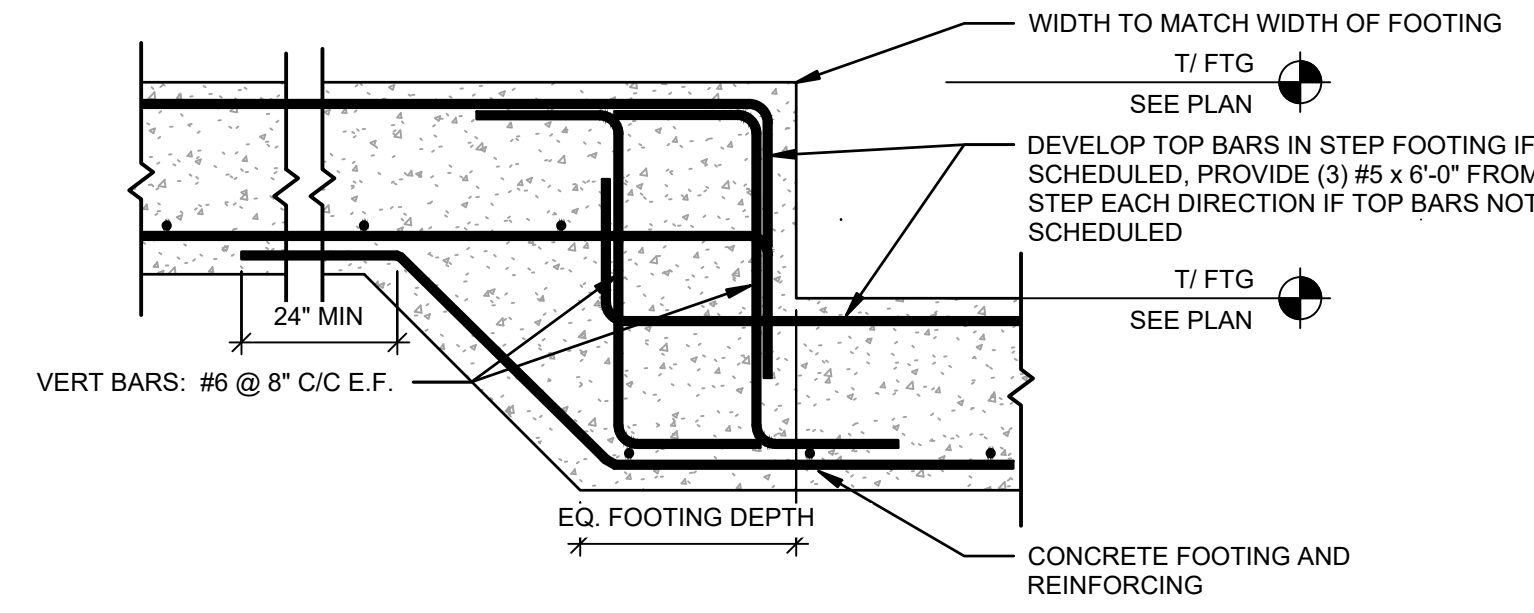
- GENERAL NOTES**
1. CONTROL JOINTS SHALL BE PLACED AT 20 ft. ON CENTER MAX. AND WITHIN 3 ft. OF CORNERS.
 2. EXPANSION JNTS. SHALL BE PLACED AT EVERY 4th CONTROL JNT.

VERTICAL JOINT REQUIREMENTS

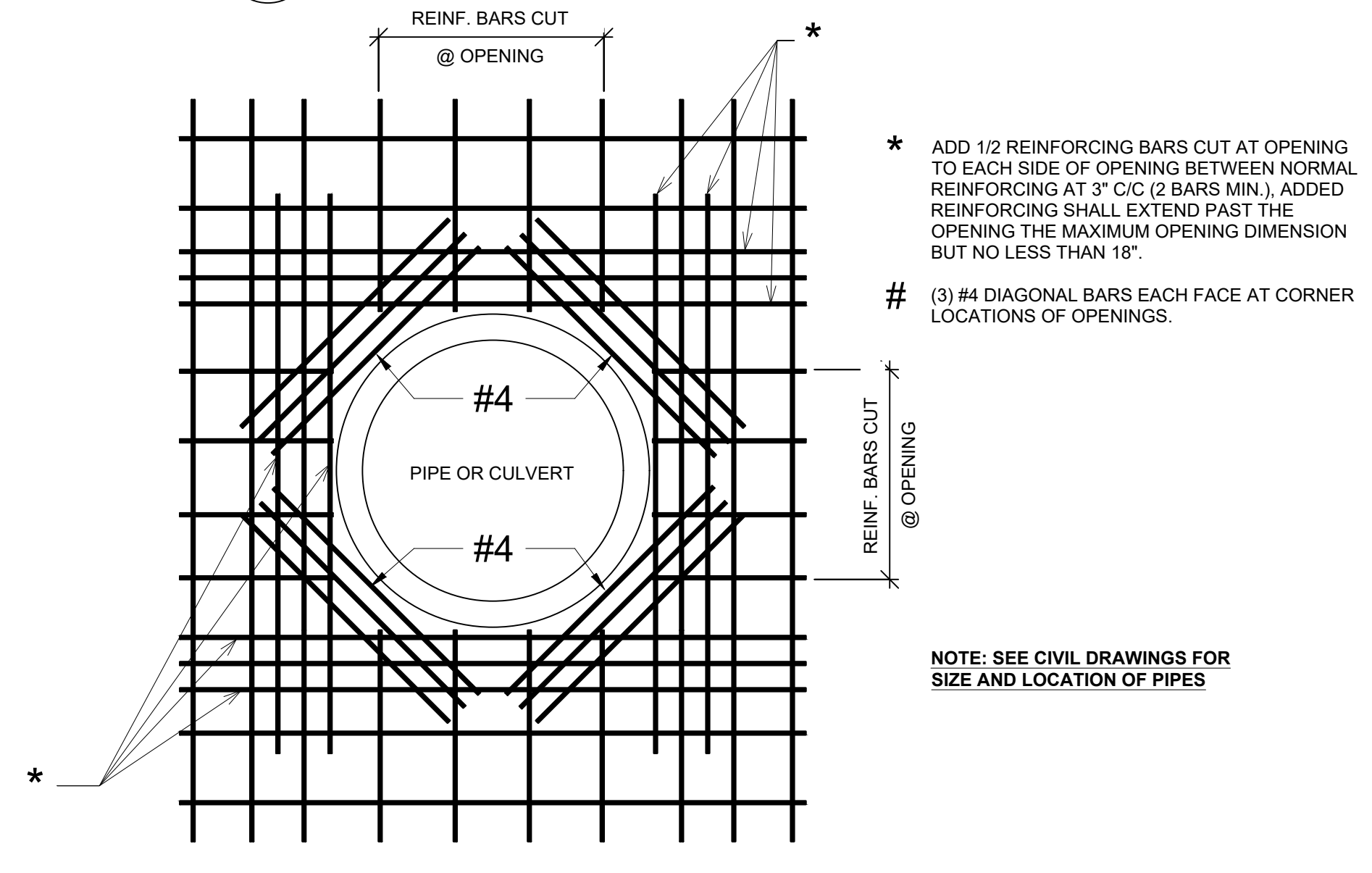


COORDINATE ALL RETAINING WALL LOCATIONS, DIMENSIONS, AND WALL HEIGHTS WITH CIVIL SITE AND BMP DRAWINGS. UNDERLYING SOIL SHALL BE PREPARED PER THE GEOTECHNICAL REPORT

1 CONCRETE RETAINING WALL
 1" = 1'-0"



2 TYPICAL STEPPED FOOTING AT DETAIL
 3/4" = 1'-0"



PIPE OPENING ELEVATION
 3/4" = 1'-0"

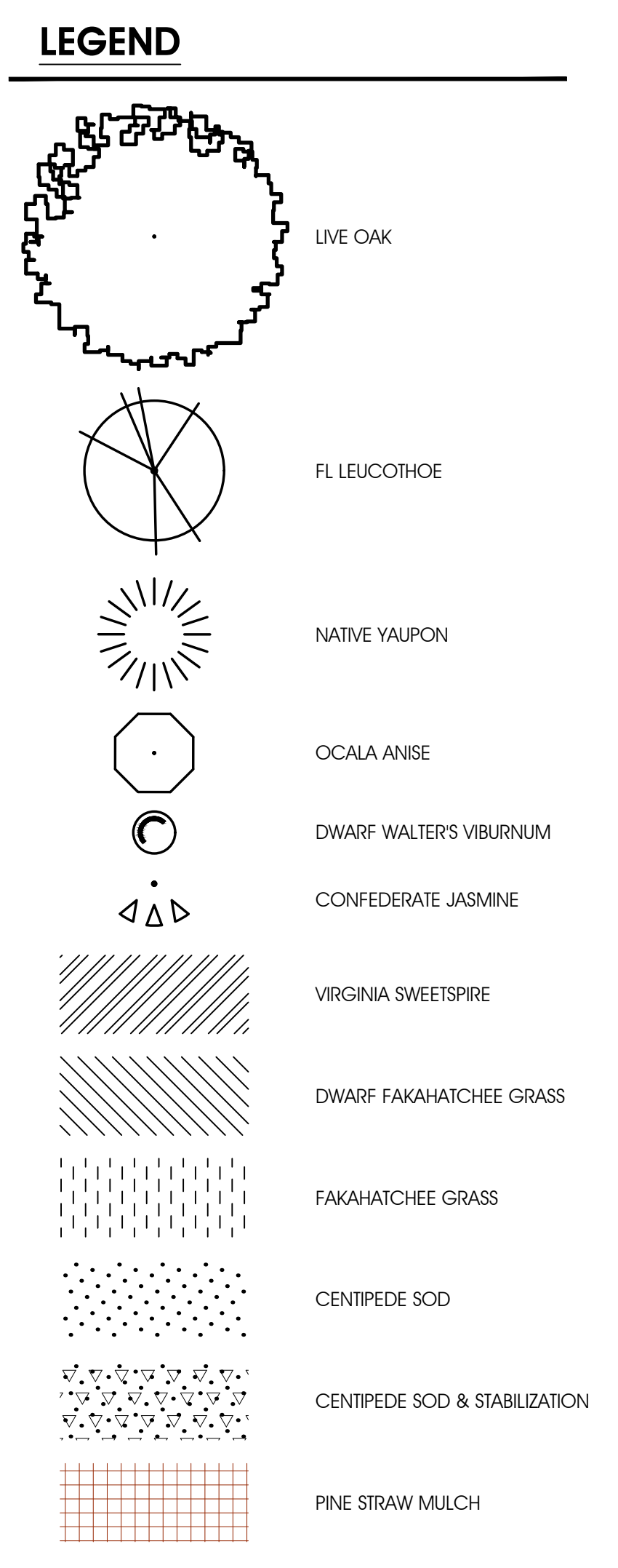
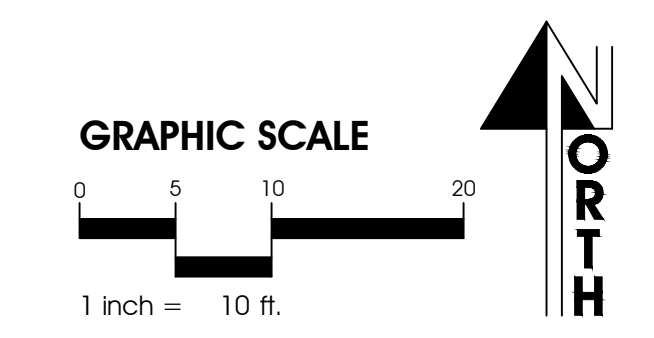
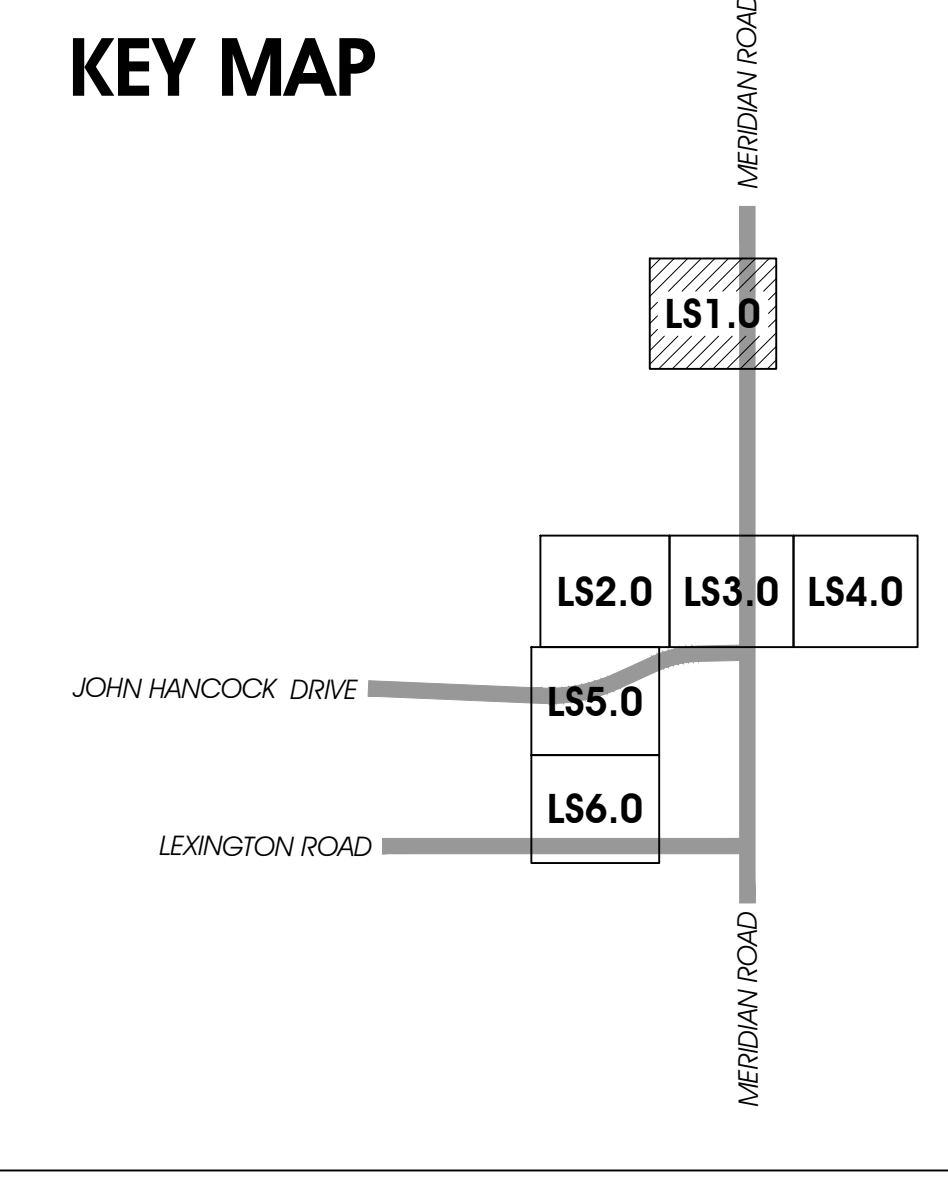
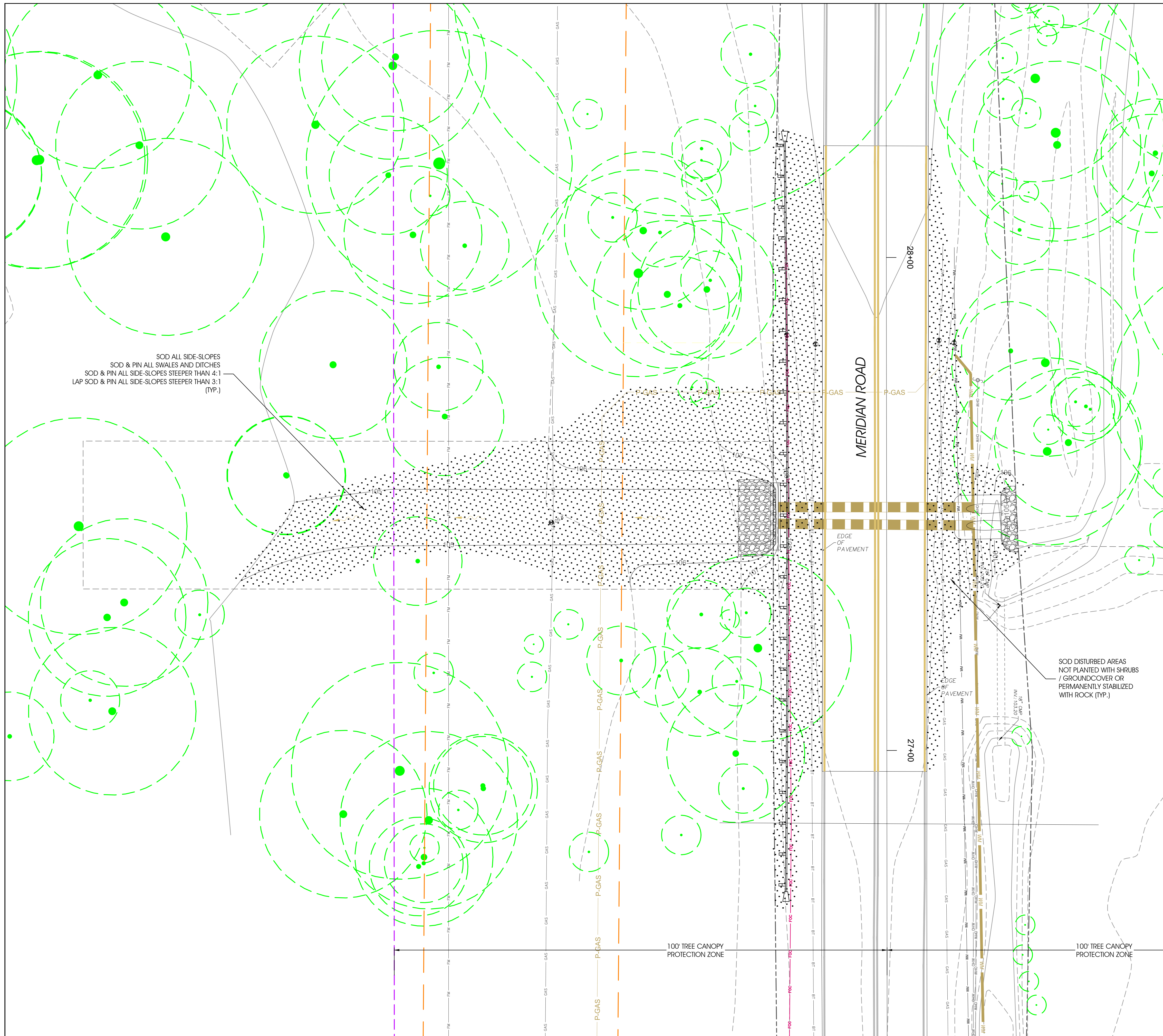
3 TYPICAL REINFORCING AT OPENINGS
 3/4" = 1'-0"

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Revision	By	Appd.	YY/MM/DD
			YY/MM/DD
			YY/MM/DD

Client/Project
**LEON COUNTY
 PUBLIC WORKS DEPARTMENT
 MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS
 TALLAHASSEE, FL**
RETAINING WALL

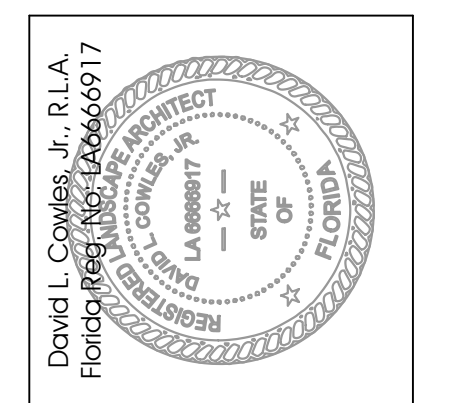
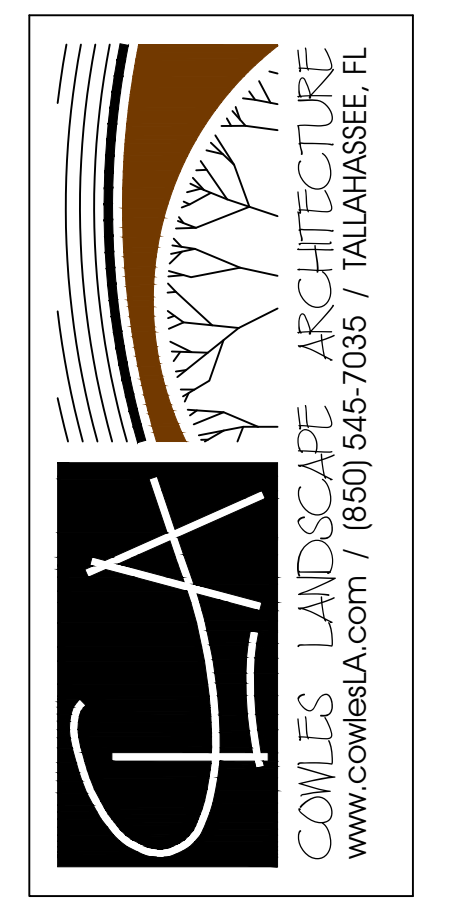
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 File Name: 13796-TITLE BLOCK
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 Drawing No. **S-101**
 Revision Sheet



REVISIONS

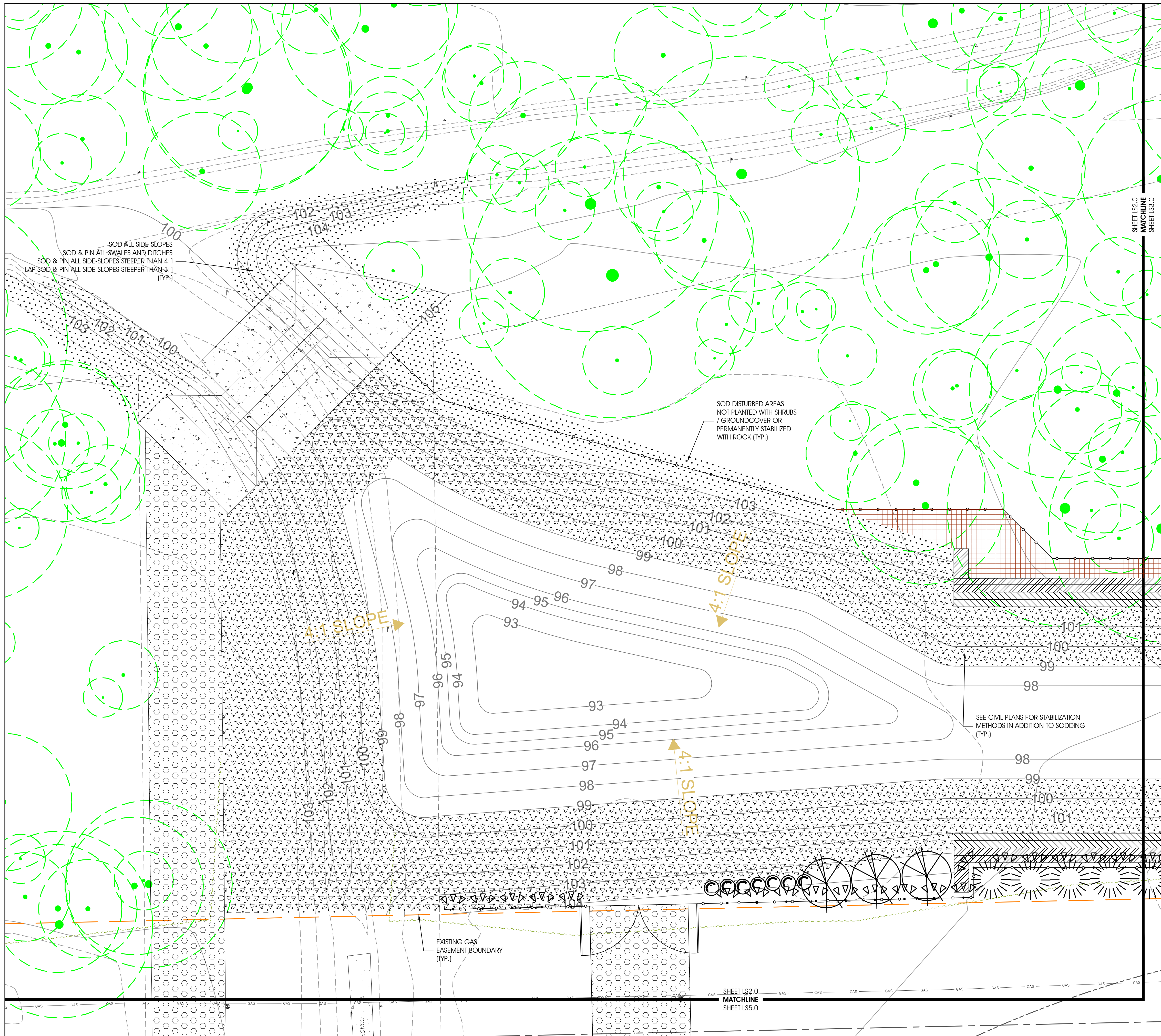
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CLIENT NAME	STANTEC
DATE:	12/12/2019
DRAWN BY:	DLC

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 www.cowlesLA.com

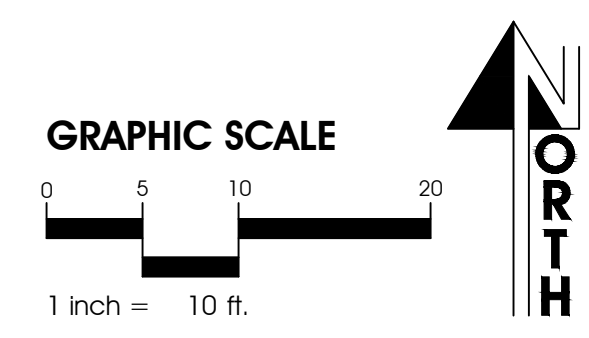
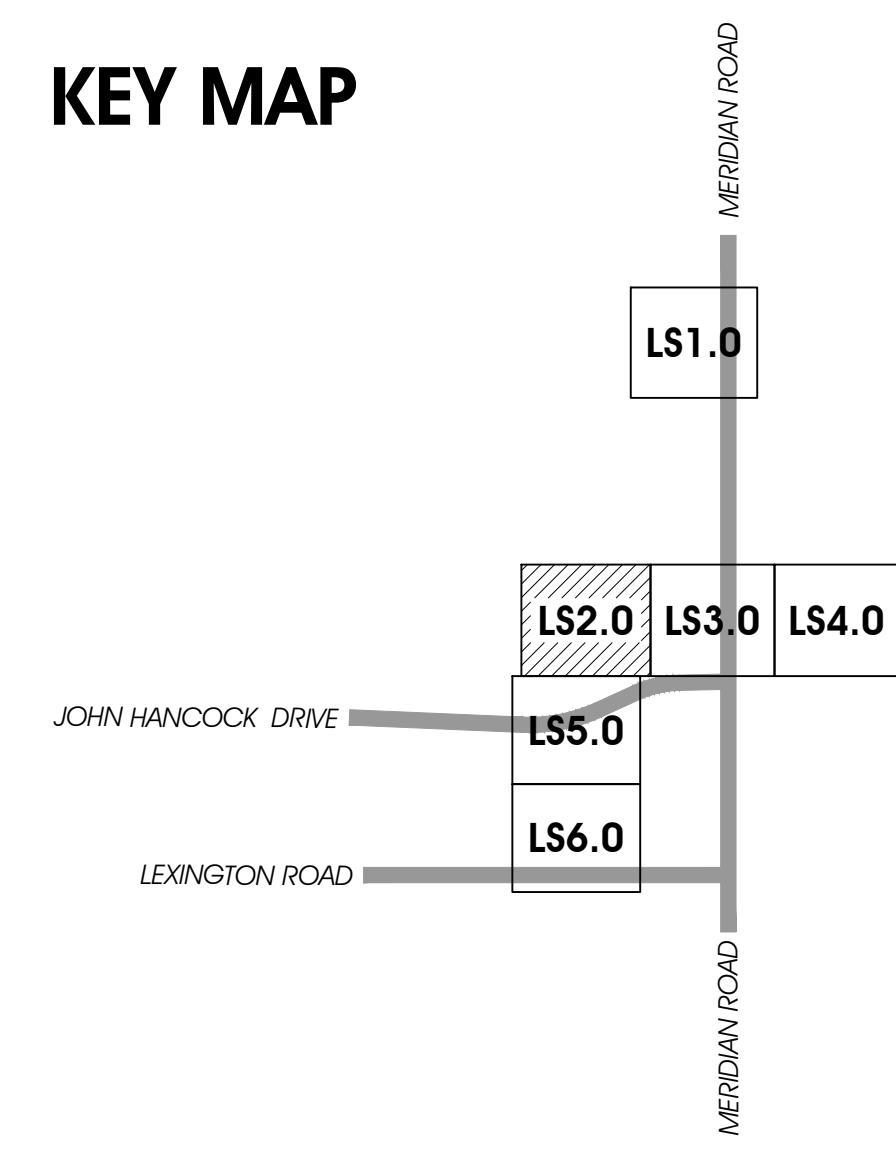


SHEET TITLE
LANDSCAPE PLAN

SHEET
LS1.0



KEY MAP



LEGEND

- LIVE OAK
- FL LEUCOTHOE
- NATIVE YAUPON
- OCALA ANISE
- DWARF WALTER'S VIBURNUM
- CONFEDERATE JASMINE
- VIRGINIA SWEETSPIRE
- DWARF FAKAHATCHEE GRASS
- FAKAHATCHEE GRASS
- CENTIPEEDE SOD
- CENTIPEEDE SOD & STABILIZATION
- PINE STRAW MULCH

REVISIONS

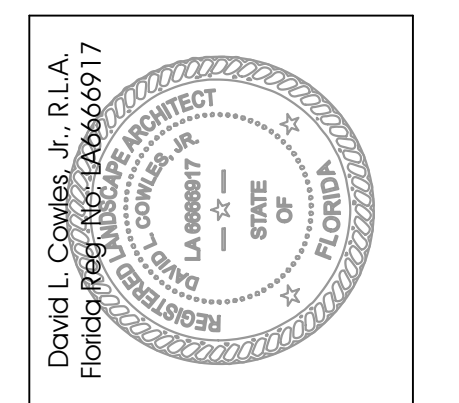
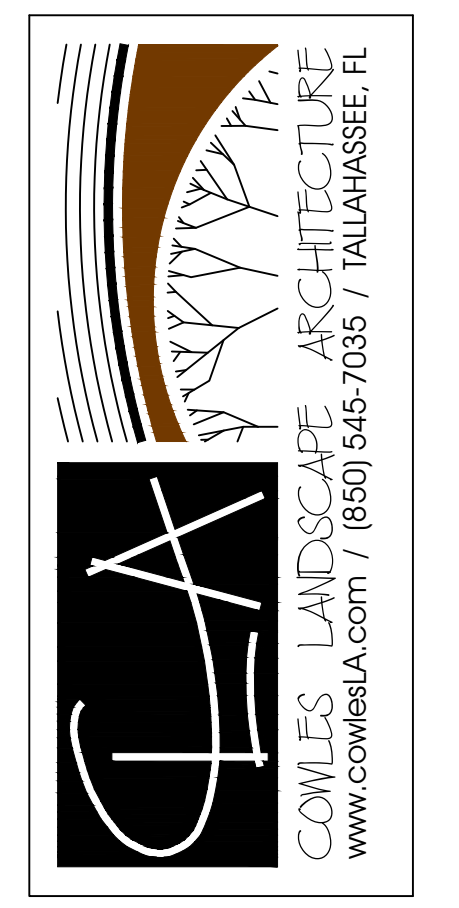
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MERIDIAN ROAD DRAINAGE IMPROVEMENTS

CLIENT NAME
STANTEC

DATE: 12/12/2019

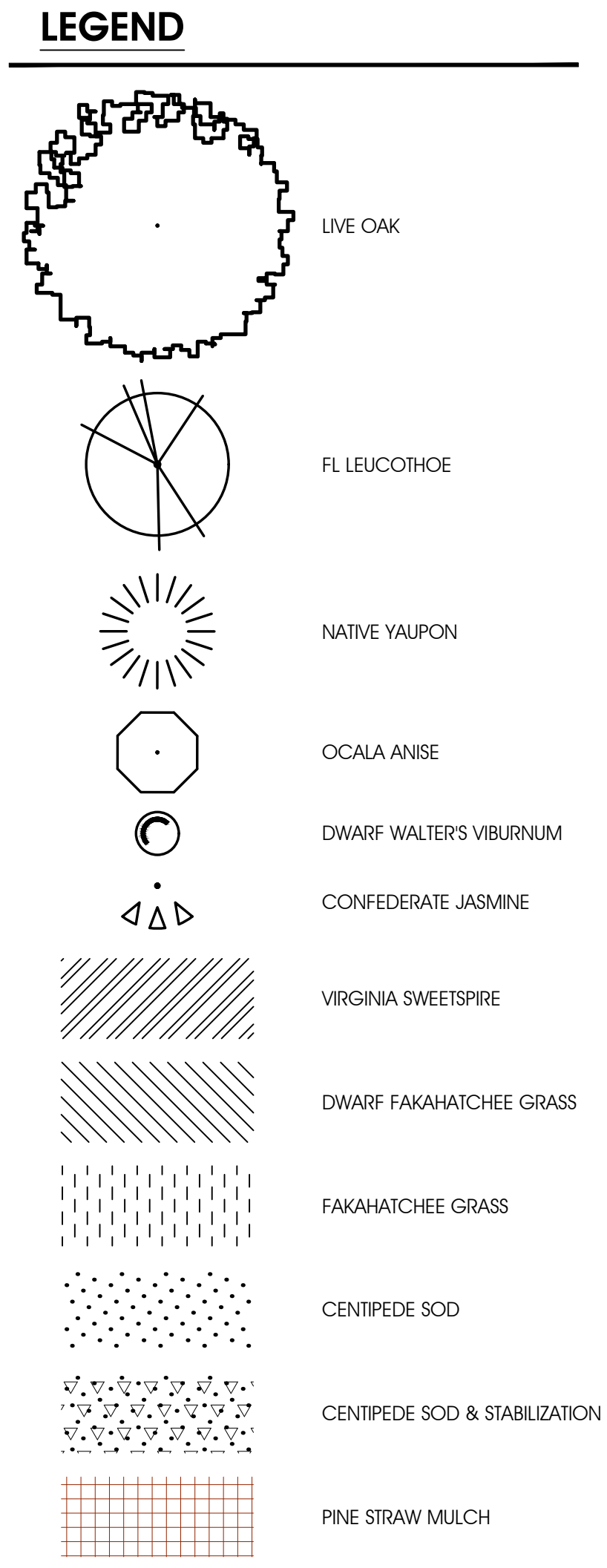
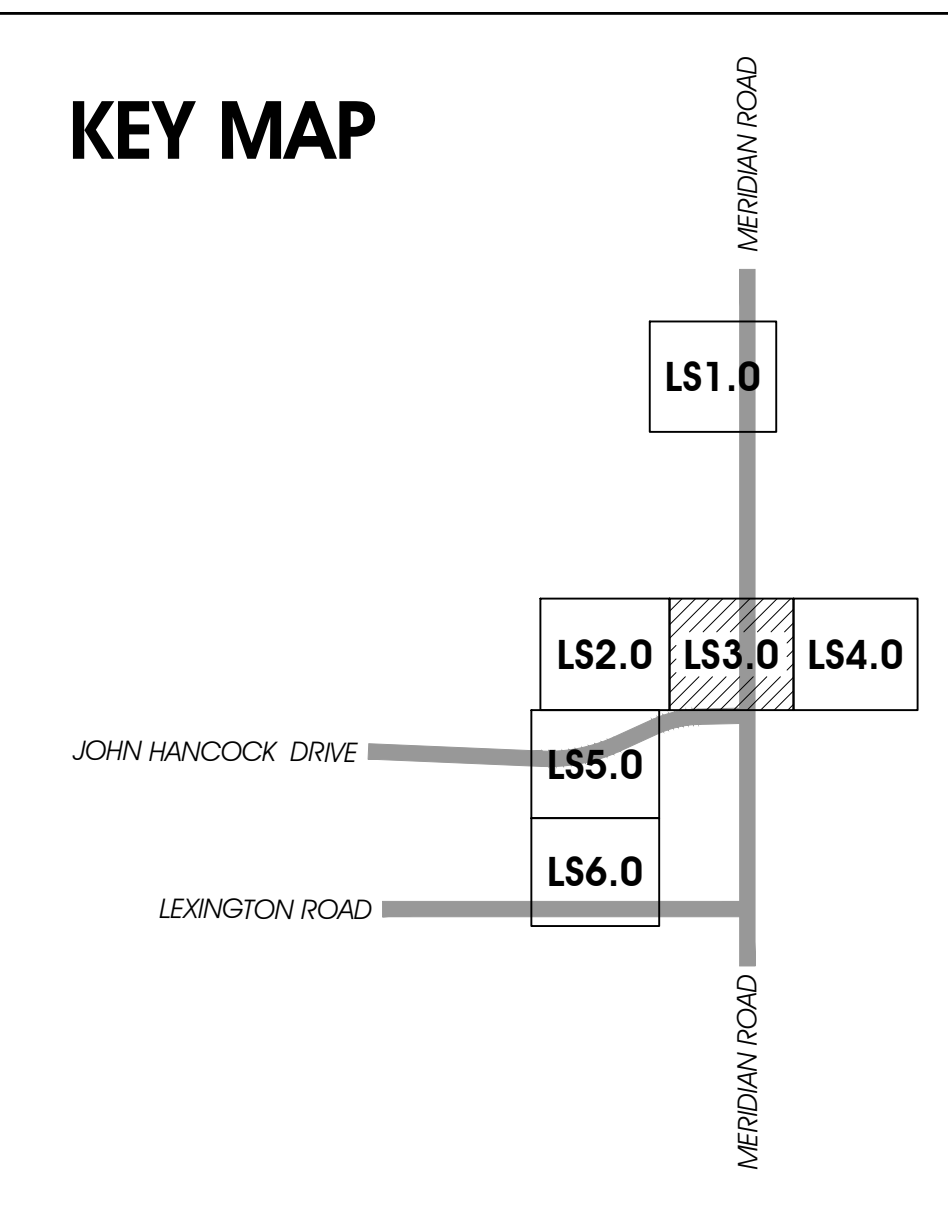
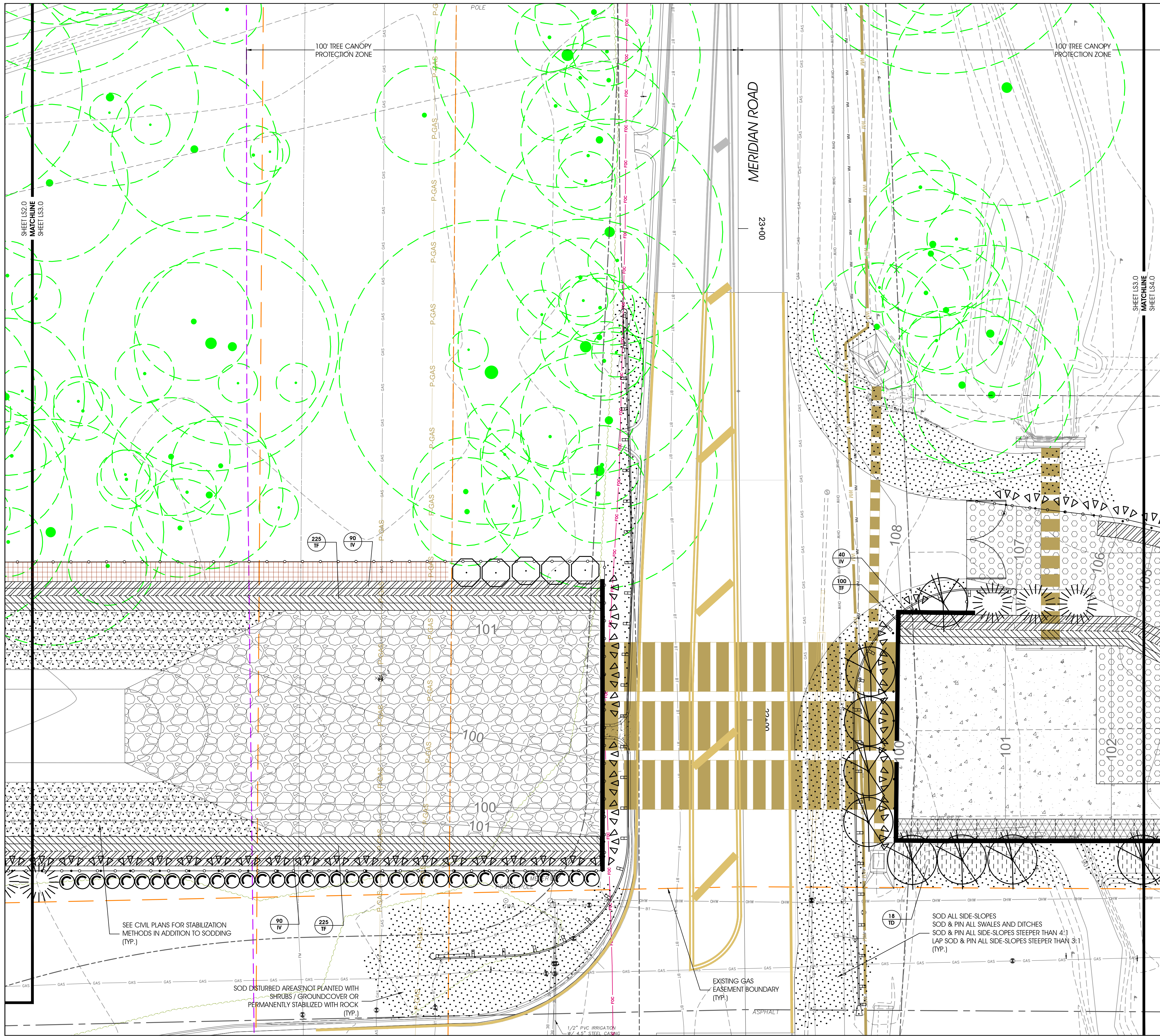
DRAWN BY: DLC

COWLES LANDSCAPE ARCHITECTURE (CLA)
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SHEET TITLE
LANDSCAPE PLAN

SHEET
LS2.0



REVISIONS

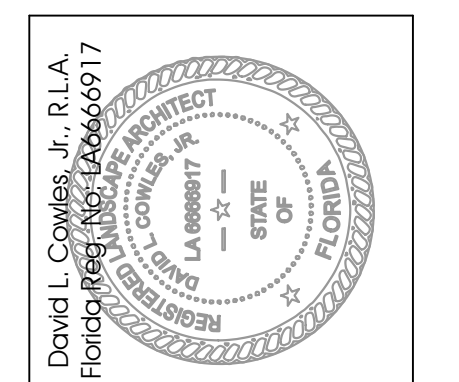
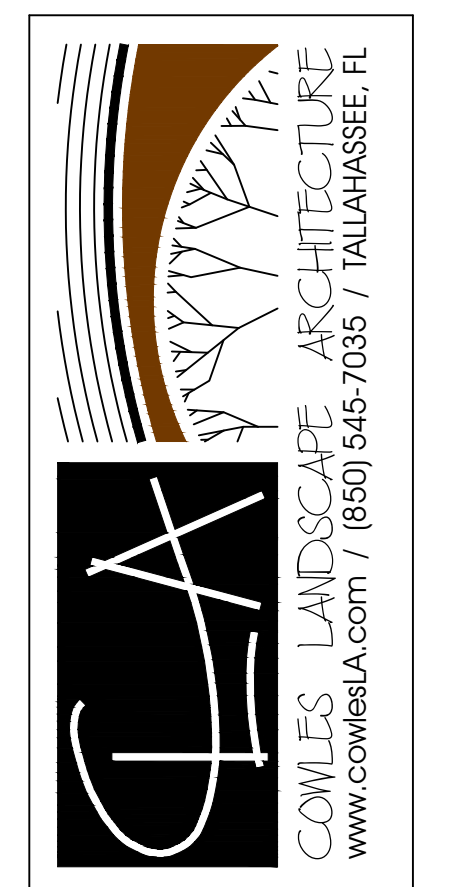
PROJECT NAME
MERIDIAN ROAD DRAINAGE IMPROVEMENTS

CLIENT NAME
STANTEC

DATE: 12/12/2019

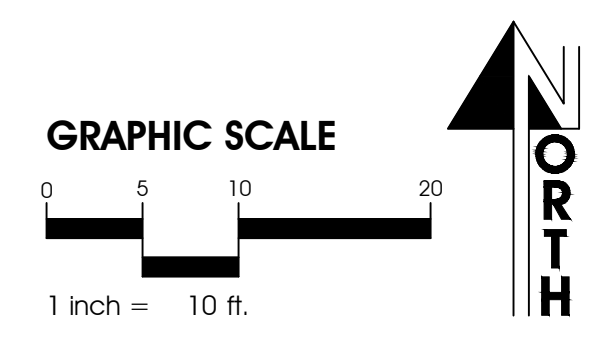
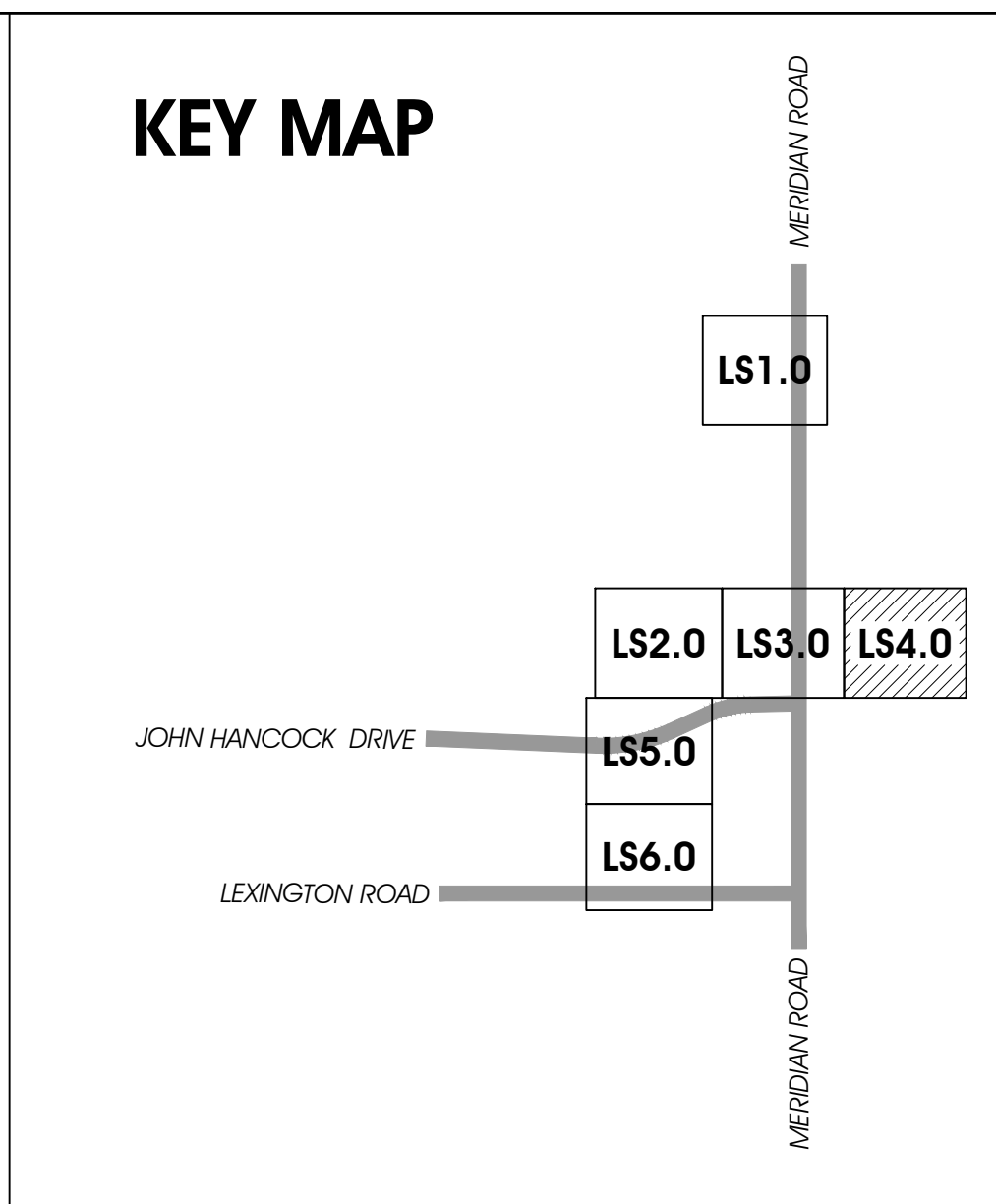
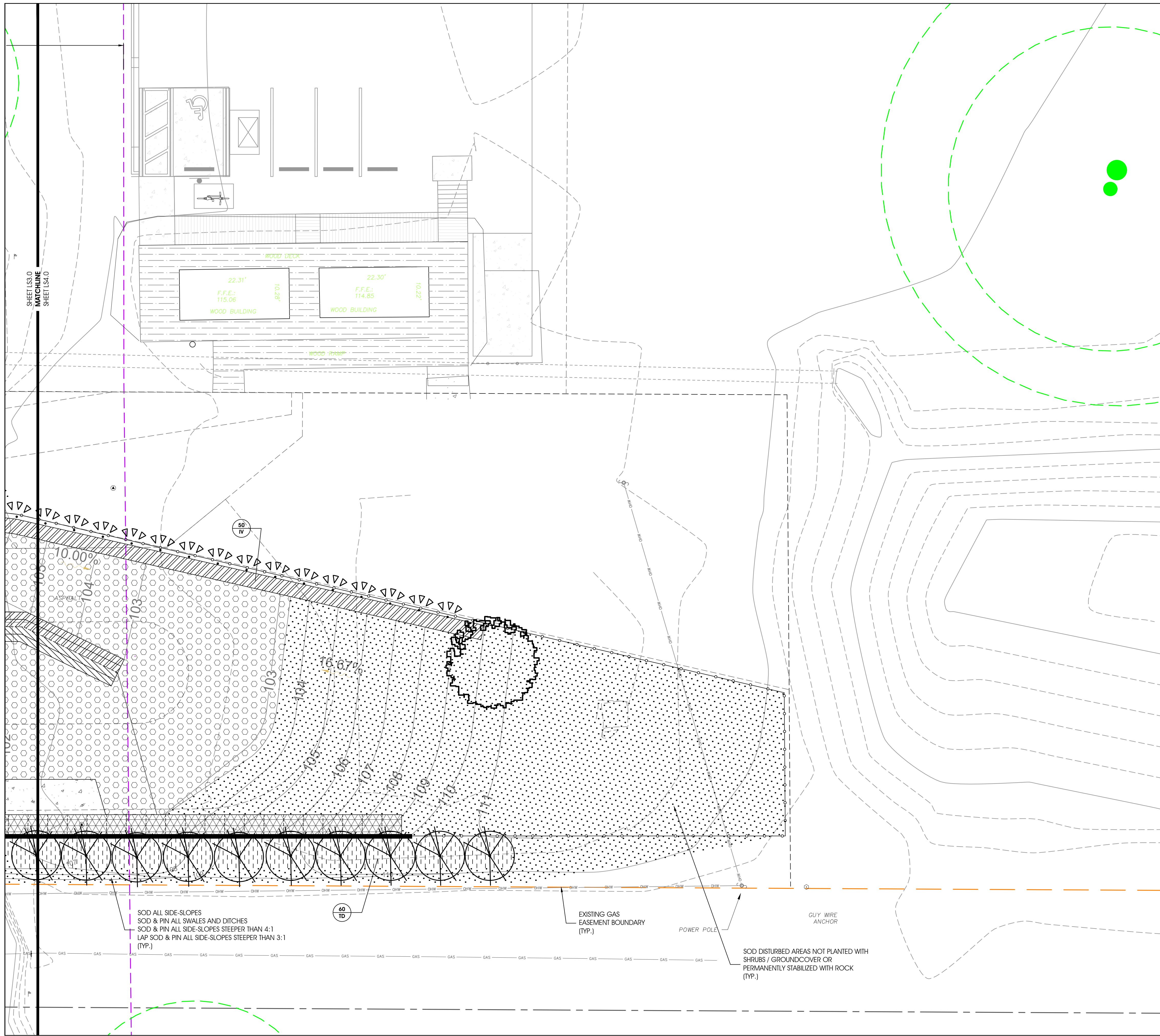
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SHEET TITLE
LANDSCAPE PLAN

SHEET
LS3.0



- ### LEGEND
- LIVE OAK
 - FL LEUCOTHOE
 - NATIVE YAUPON
 - OCALA ANISE
 - DWARF WALTER'S VIBURNUM
 - CONFEDERATE JASMINE
 - VIRGINIA SWEETSPIRE
 - DWARF FAKAHATCHEE GRASS
 - FAKAHATCHEE GRASS
 - CENTIPEDE SOD
 - CENTIPEDE SOD & STABILIZATION
 - PINE STRAW MULCH

SOD ALL SIDE-SLOPES
 SOD & PIN ALL SWALES AND DITCHES
 SOD & PIN ALL SIDE-SLOPES STEEPER THAN 4:1
 LAP SOD & PIN ALL SIDE-SLOPES STEEPER THAN 3:1
 (TYP.)

EXISTING GAS
 EASEMENT BOUNDARY
 (TYP.)

SOD DISTURBED AREAS NOT PLANTED WITH
 SHRUBS / GROUNDCOVER OR
 PERMANENTLY STABILIZED WITH ROCK
 (TYP.)

REVISIONS

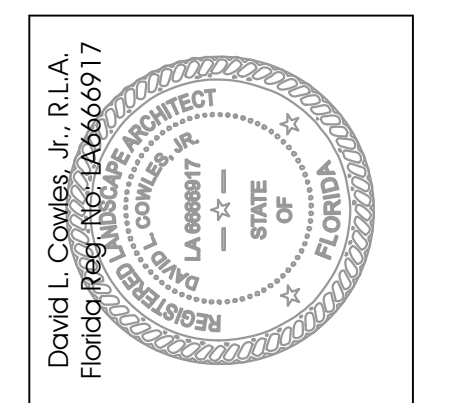
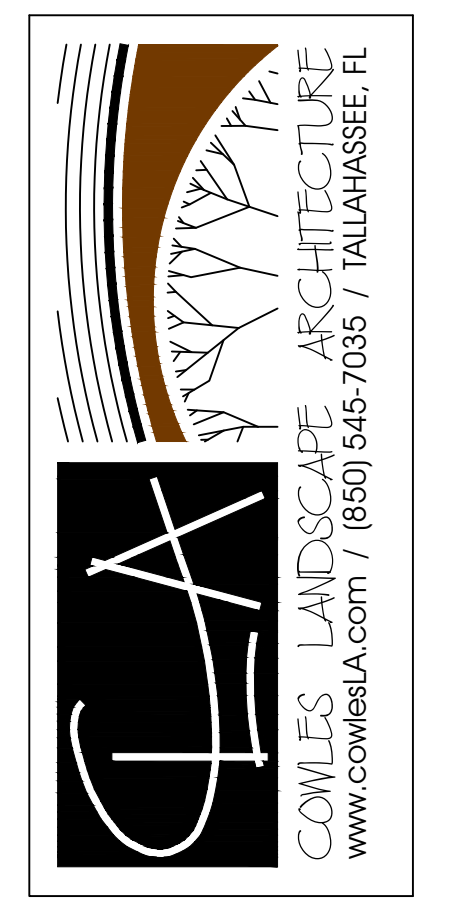
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**MERIDIAN ROAD
 DRAINAGE IMPROVEMENTS**

CLIENT NAME
STANTEC

DATE: 12/12/2019

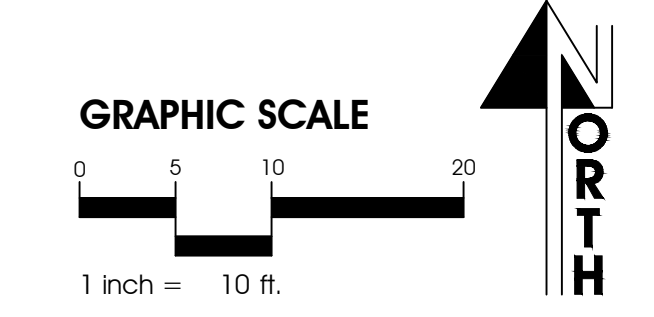
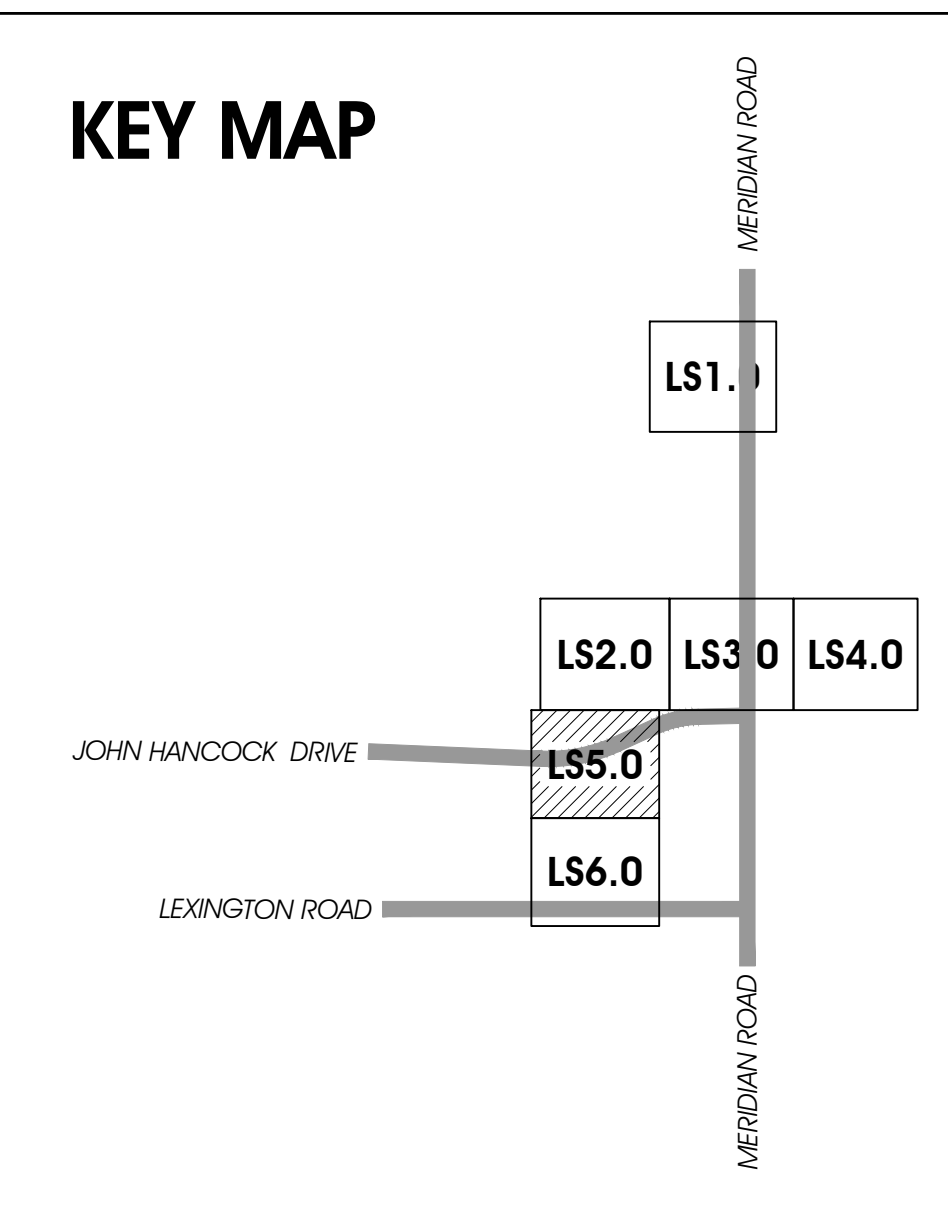
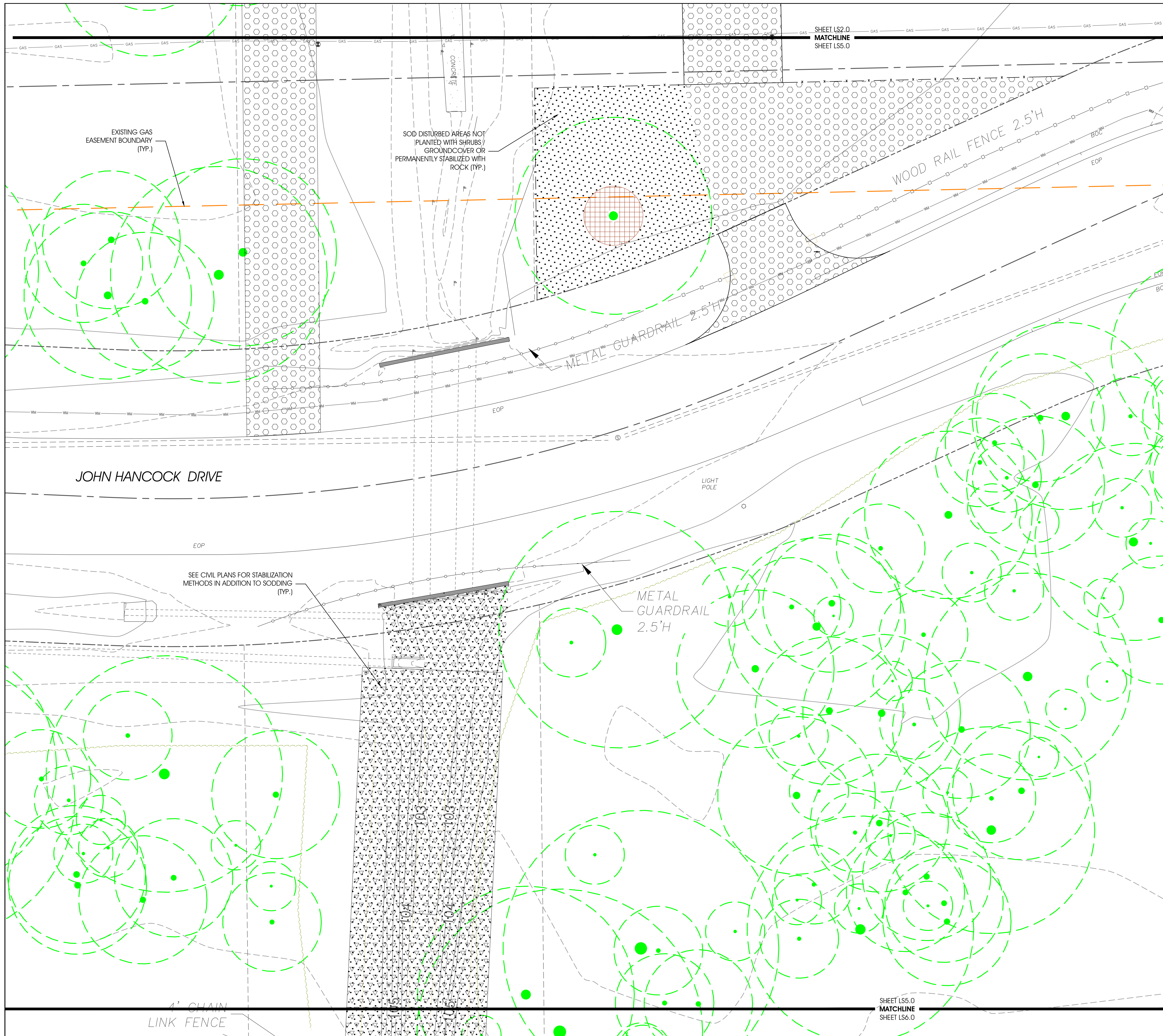
DRAWN BY: DLC

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SHEET TITLE
LANDSCAPE PLAN

SHEET
LS4.0



- ### LEGEND
- LIVE OAK
 - FL LEUCOTHOE
 - NATIVE YAUPON
 - OCALA ANISE
 - DWARF WALTER'S VIBURNUM
 - CONFEDERATE JASMINE
 - VIRGINIA SWEETSPIRE
 - DWARF FAKAHATCHEE GRASS
 - FAKAHATCHEE GRASS
 - CENTIPEDE SOD
 - CENTIPEDE SOD & STABILIZATION
 - PINE STRAW MULCH

NO.	DATE	DESCRIPTION

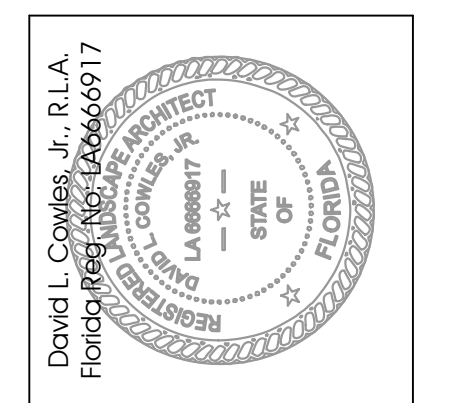
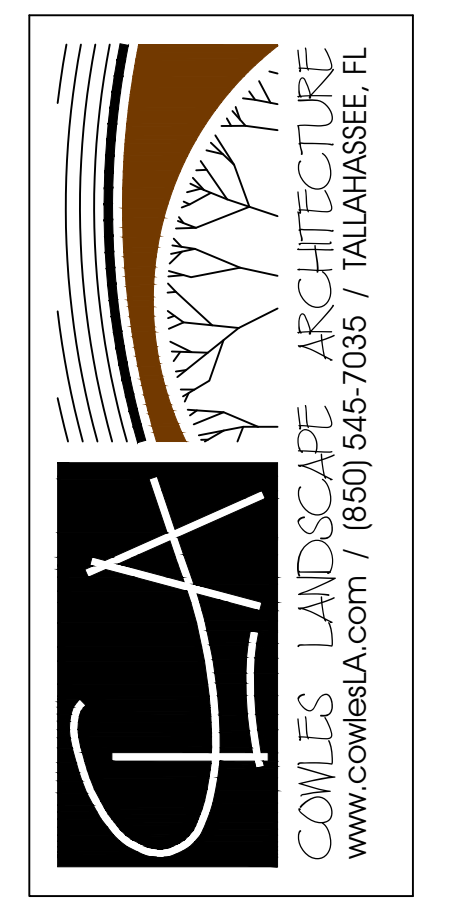
PROJECT NAME
MERIDIAN ROAD DRAINAGE IMPROVEMENTS

CLIENT NAME
STANTEC

DATE: 12/12/2019

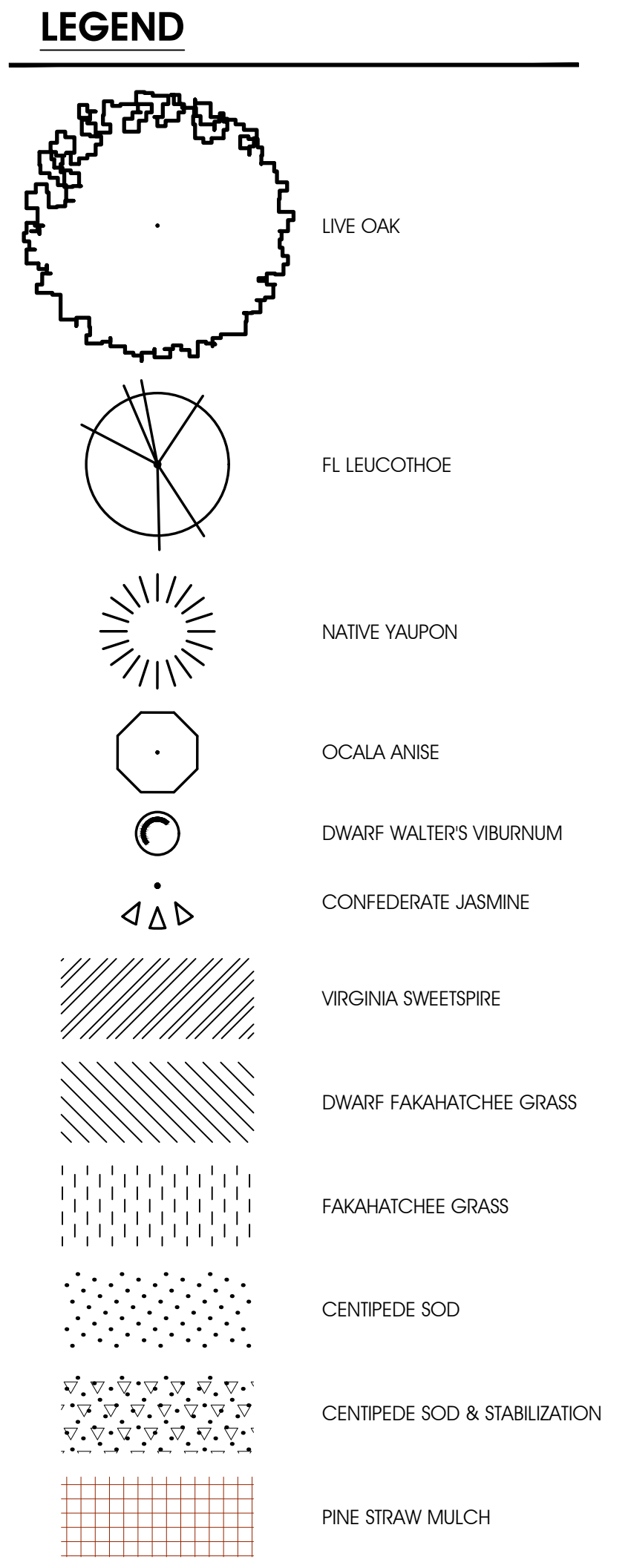
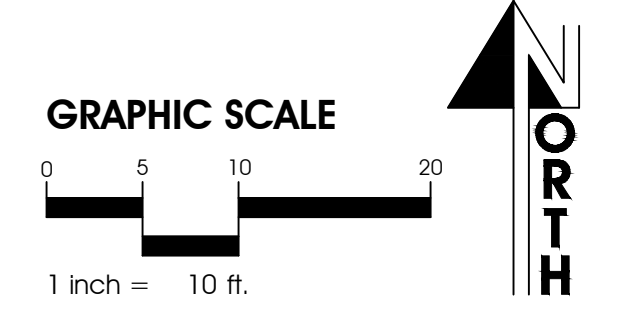
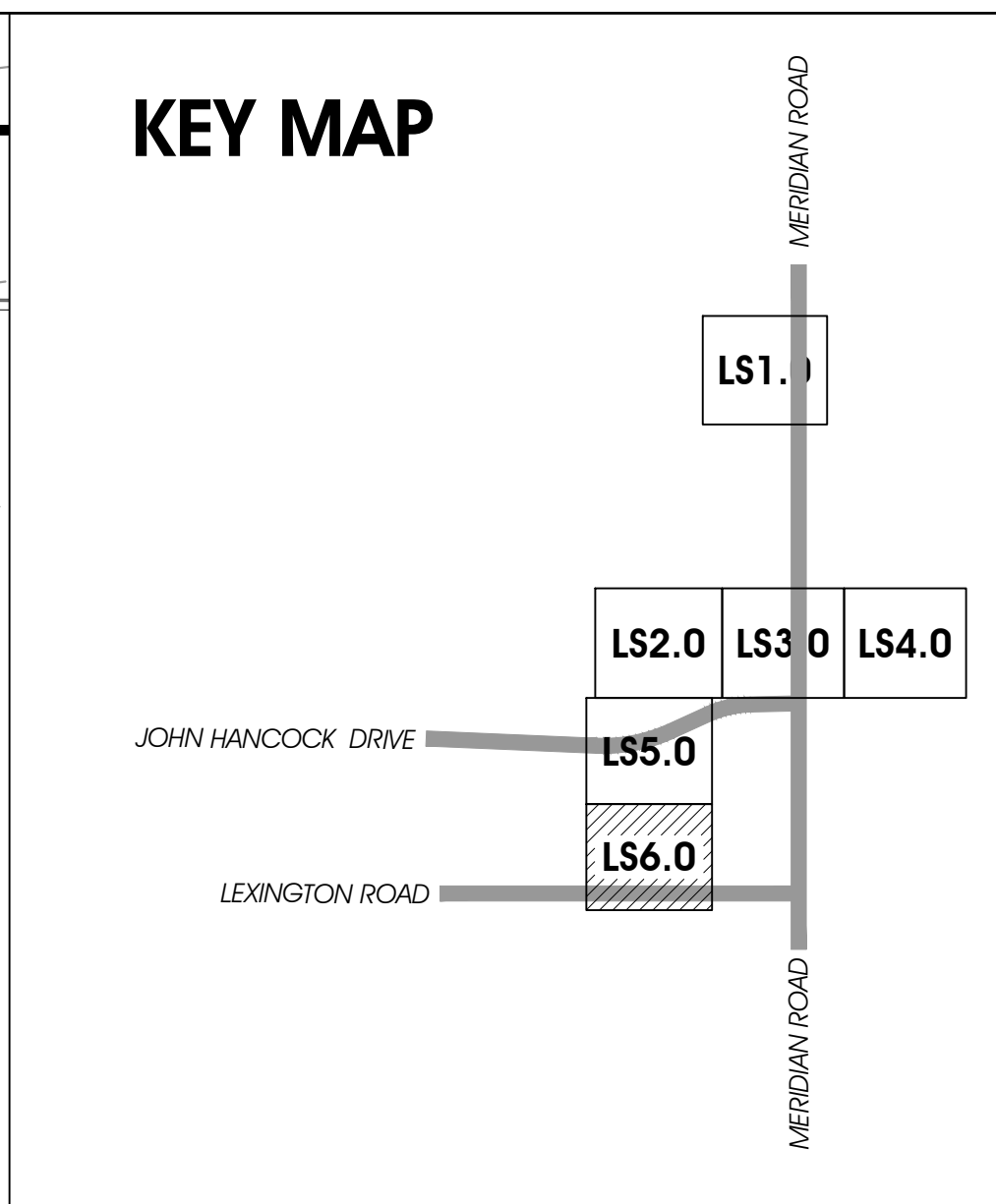
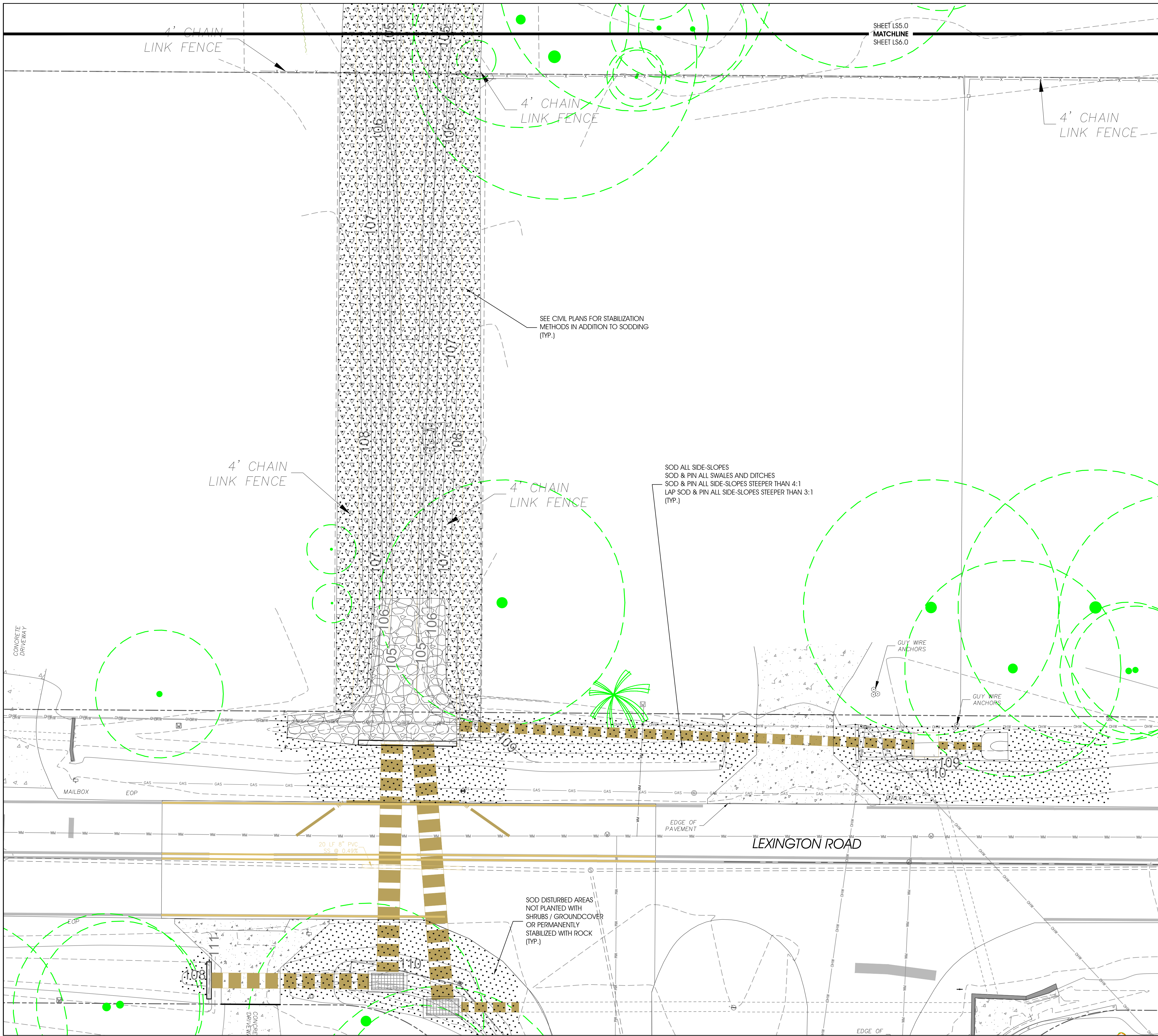
DRAWN BY: DLC

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SHEET TITLE
LANDSCAPE PLAN

SHEET
LS5.0



REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NAME: **MERIDIAN ROAD DRAINAGE IMPROVEMENTS**

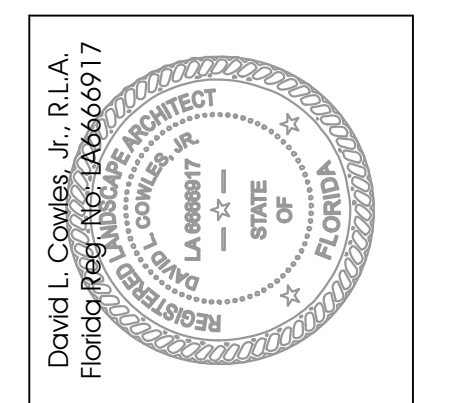
CLIENT NAME: **STANTEC**

DATE: 12/12/2019

DRAWN BY: DLC

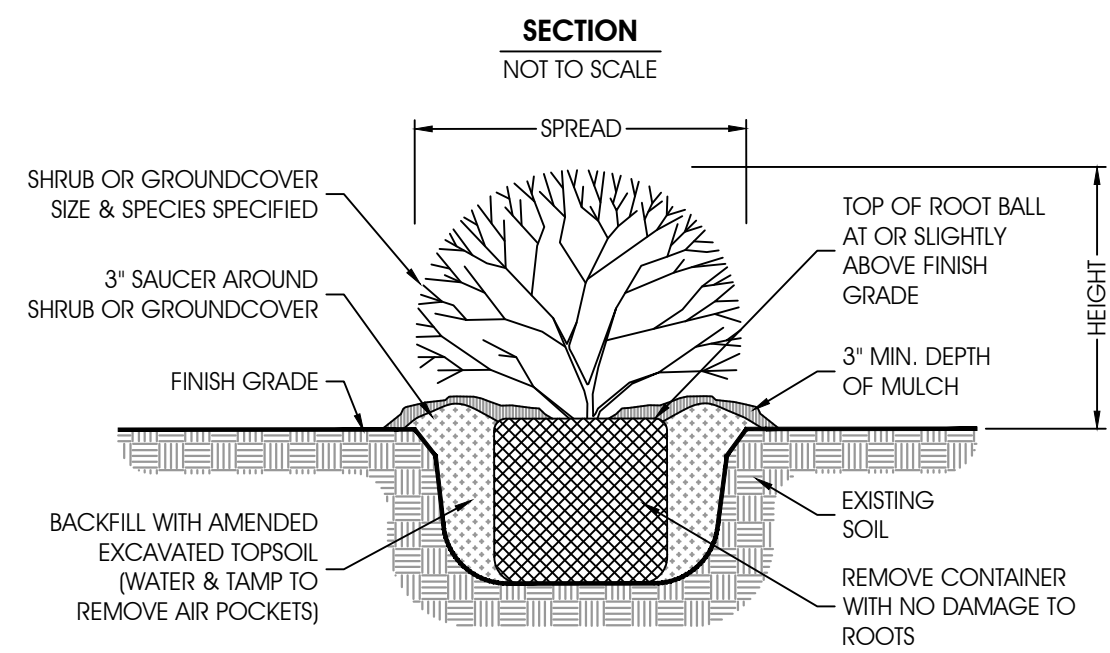
OWLES LANDSCAPE ARCHITECTURE (CLA)
 2285 LESCOTT DRIVE
 TALLAHASSEE, FL 32308
 (850) 545-7035
 www.cowlesLA.com

OWLES LANDSCAPE ARCHITECTURE
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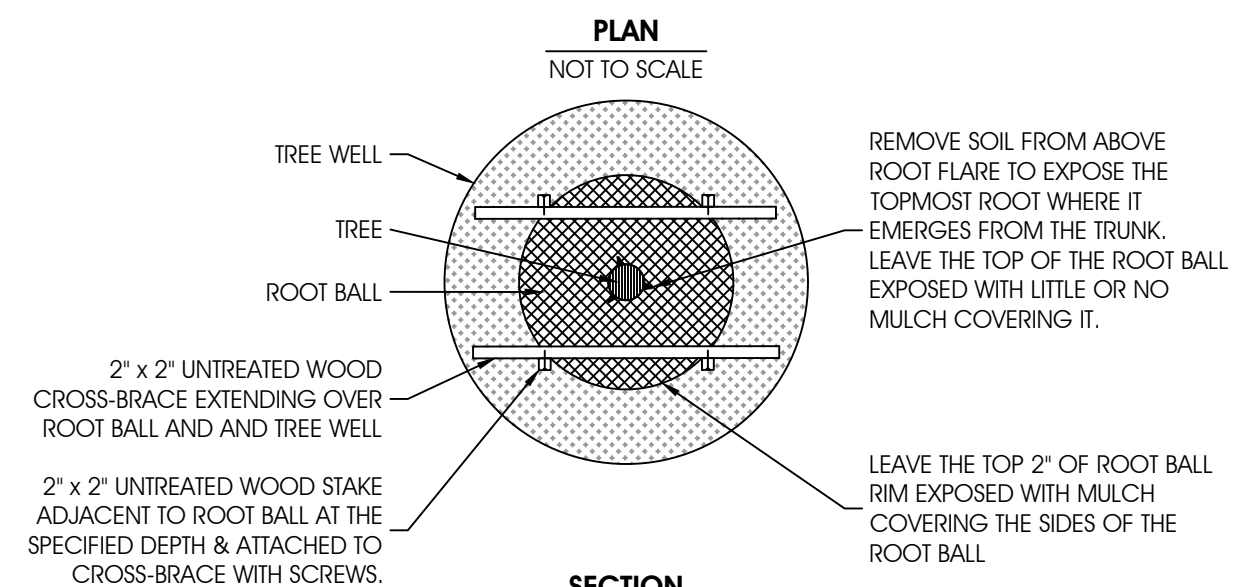
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SHEET: **LS6.0**



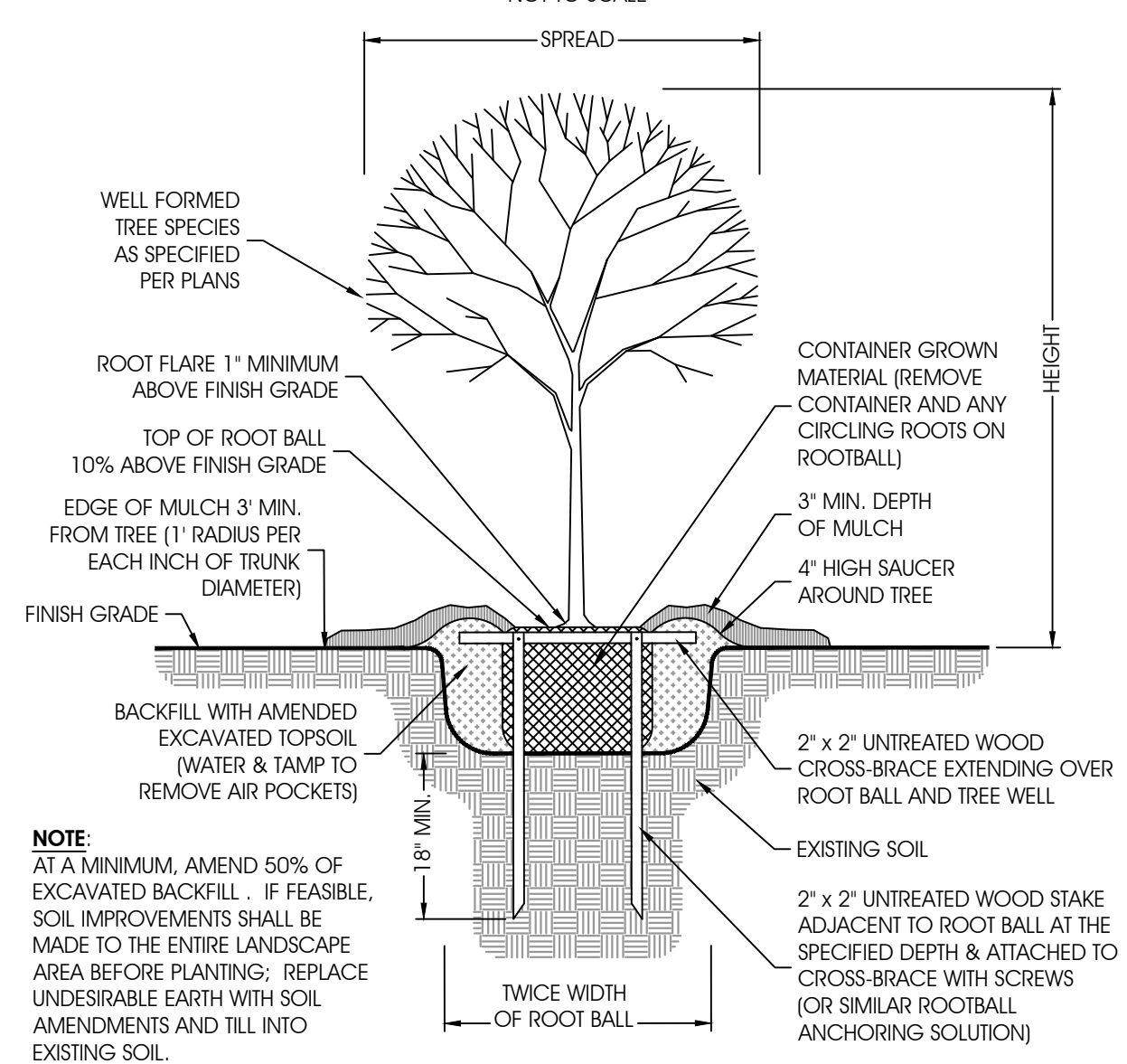
SHRUB AND GROUND COVER DETAIL

NOT TO SCALE



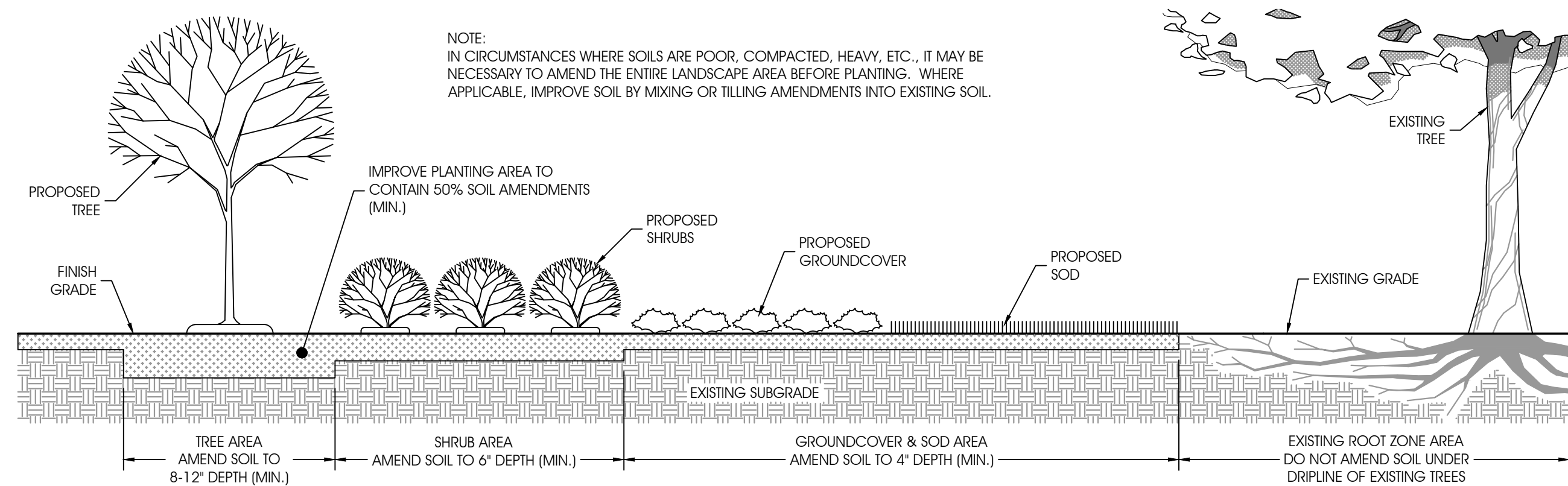
TREE PLANTING DETAIL

NOT TO SCALE



TREE PLANTING DETAIL

NOT TO SCALE



TYPICAL SOIL AMENDMENT SECTION

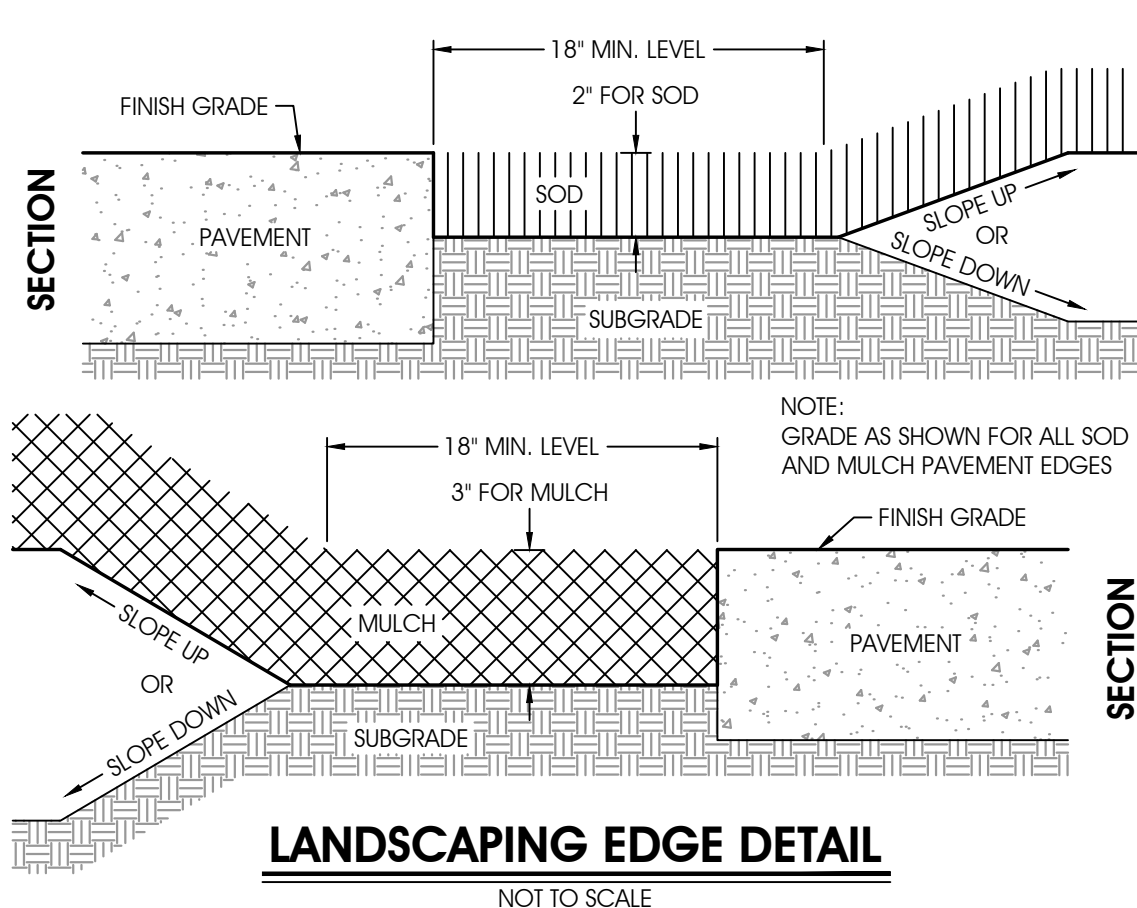
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PLANTING SCHEDULE

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE/REMARKS
T R E E S				
QV	1	QUERCUS VIRGINIANA	LIVE OAK	10-12' HT. X 4-5' SPR., 3\"/>
S H R U B S				
AP	21	AGARISTA POPULIFOLIA	FL. LEUCOTHOE	48\"/>
IX	8	ILEX VOMITORIA	NATIVE YAUPON	36\"/>
IP	5	ILLICUM PARVIFLORUM	YELLOW ANISE	18\"/>
VO	43	VIBURNUM OBOVATUM 'WHORLED CLASS'	DWARF WALTER'S VIBURNUM	16\"/>
TJ	78	TRACHELOSPERMUM JASMINOIDES	CONFEDERATE JASMINE	20\"/>
G R O U N D C O V E R				
IV	270	ITEA VIRGINICA	VIRGINIA SWEETSPIRE	FULL, 3 GAL., 30\"/>
TF	550	TRIPSACUM FLORIDANA	DWARF FAKAHATCHEE GRASS	FULL, 1 GAL., 18\"/>
TD	78	TRIPSACUM DACTYLOIDES	FAKAHATCHEE GRASS	FULL, 3 GAL., 36\"/>
T U R F G R A S S / L A W N				
SOD	-	EREMOCHLOA OPHIUROIDES	CENTPEDE GRASS	SOD ALL DISTURBED AREAS UNLESS INDICATED TO CONTAIN SEED & MULCH, SHRUBS, GROUND COVER, MULCH OR OTHER MATERIAL.

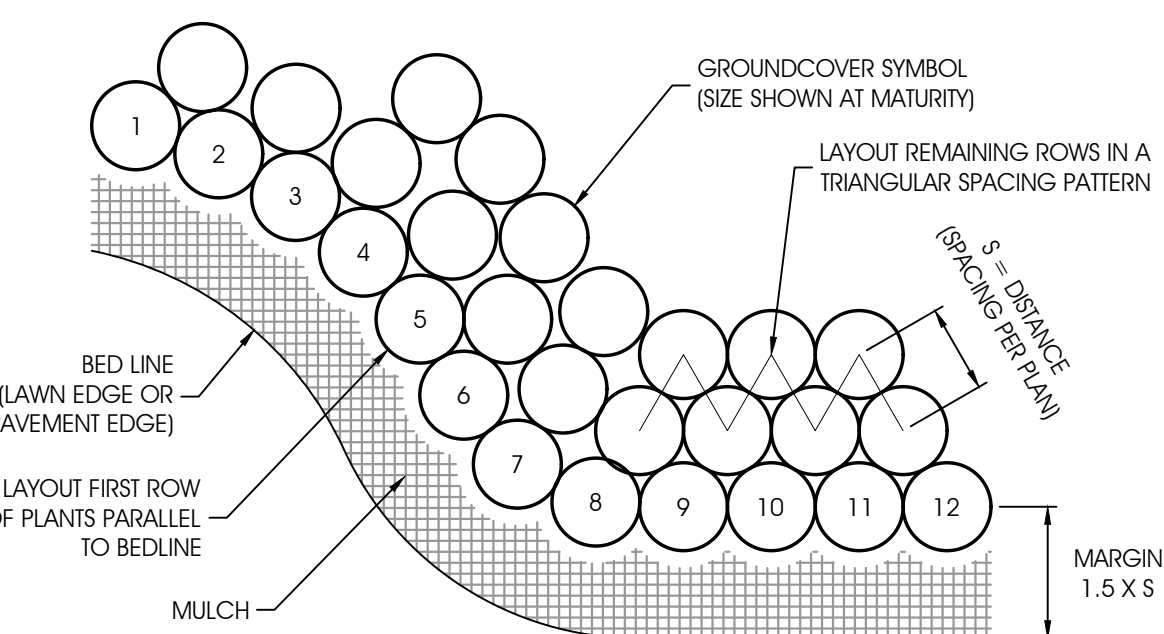
GENERAL NOTES:

1. ALL PLANT MATERIAL SHALL BE FLORIDA #1 AS CLASSIFIED IN 'GRADES AND STANDARDS FOR NURSERY PLANTS 2015, FIFTH EDITION, PUBLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES.
2. QUANTITIES ON LANDSCAPE PLAN ARE MINIMUM ONLY. CONTRACTOR IS RESPONSIBLE FOR HIS OWN QUANTITY TAKE-OFF, AND SHALL PROVIDE ALL PLANT MATERIAL REQUIRED TO FILL PLANT BED AREA AT SPACING ON PLAN SCHEDULE.
3. INSTALL PINE STRAW MULCH (OR APPROVED EQUAL) WITHIN ALL LANDSCAPE AREAS AT A MINIMUM OF 3\"/>



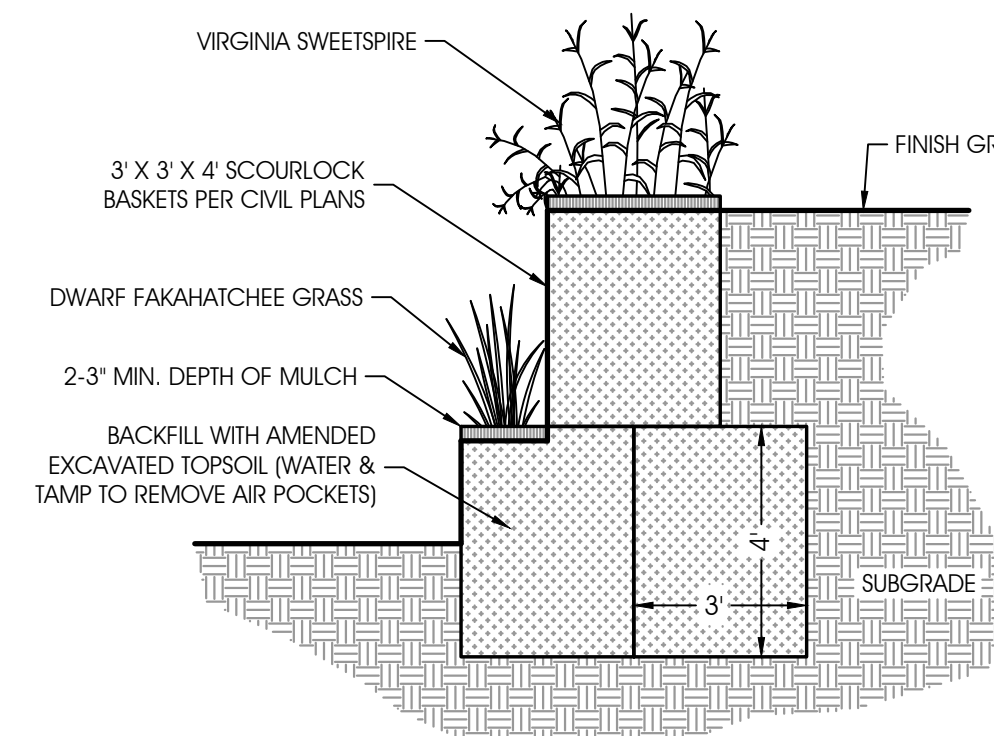
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NOT TO SCALE



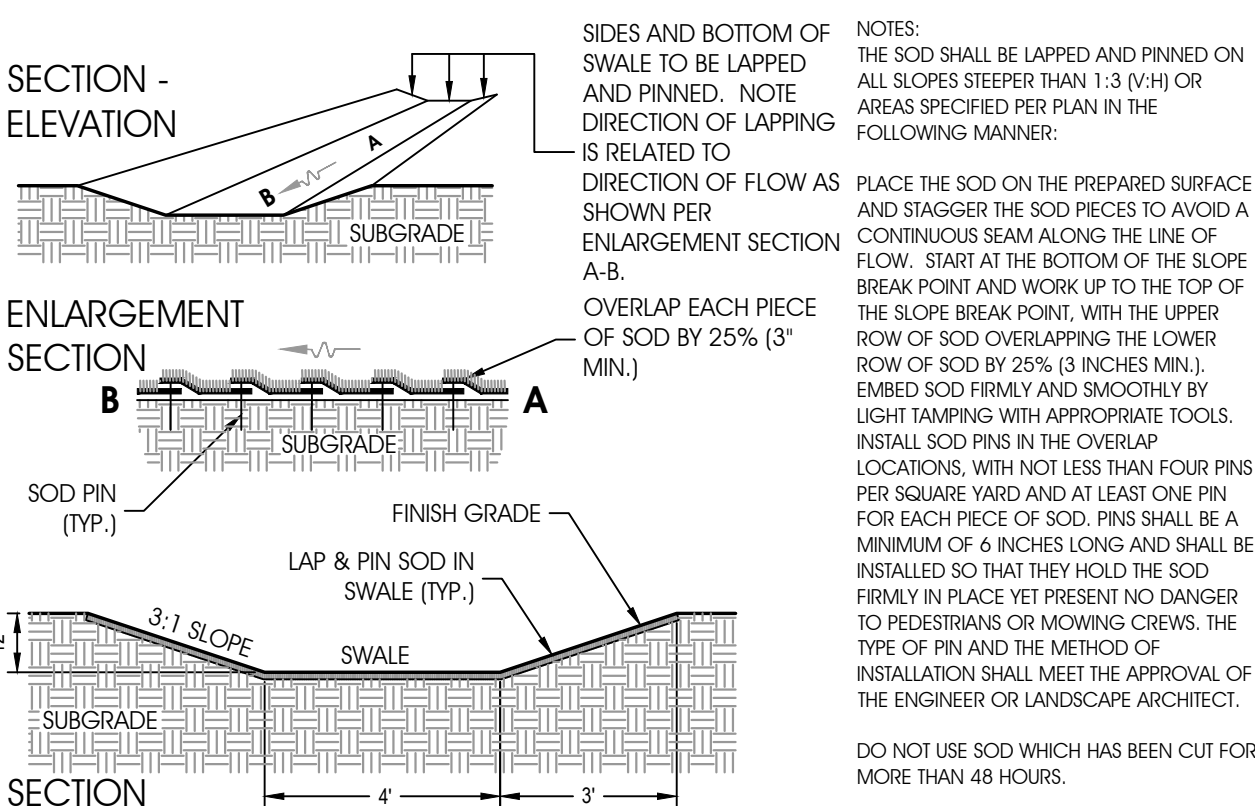
GROUND COVER LAYOUT DETAIL

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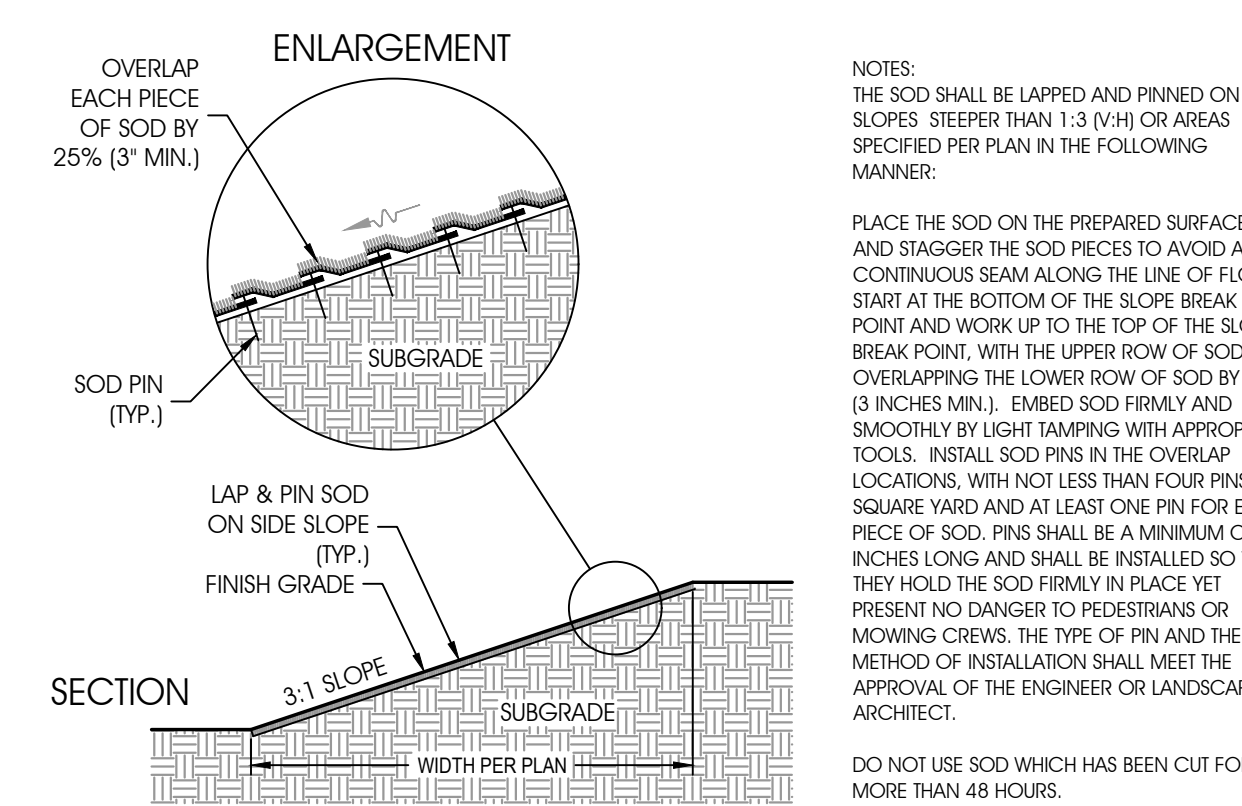
SCOURLOCK PLANTING DETAIL

NOT TO SCALE



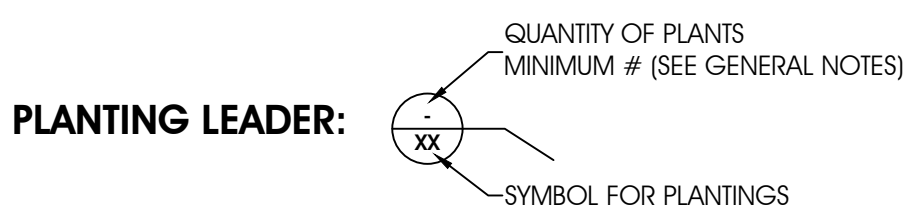
LAPPED & PINNED SOD SWALE DETAIL

NOT TO SCALE

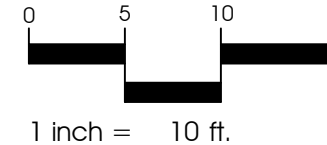


LAPPED & PINNED SOD SLOPE DETAIL

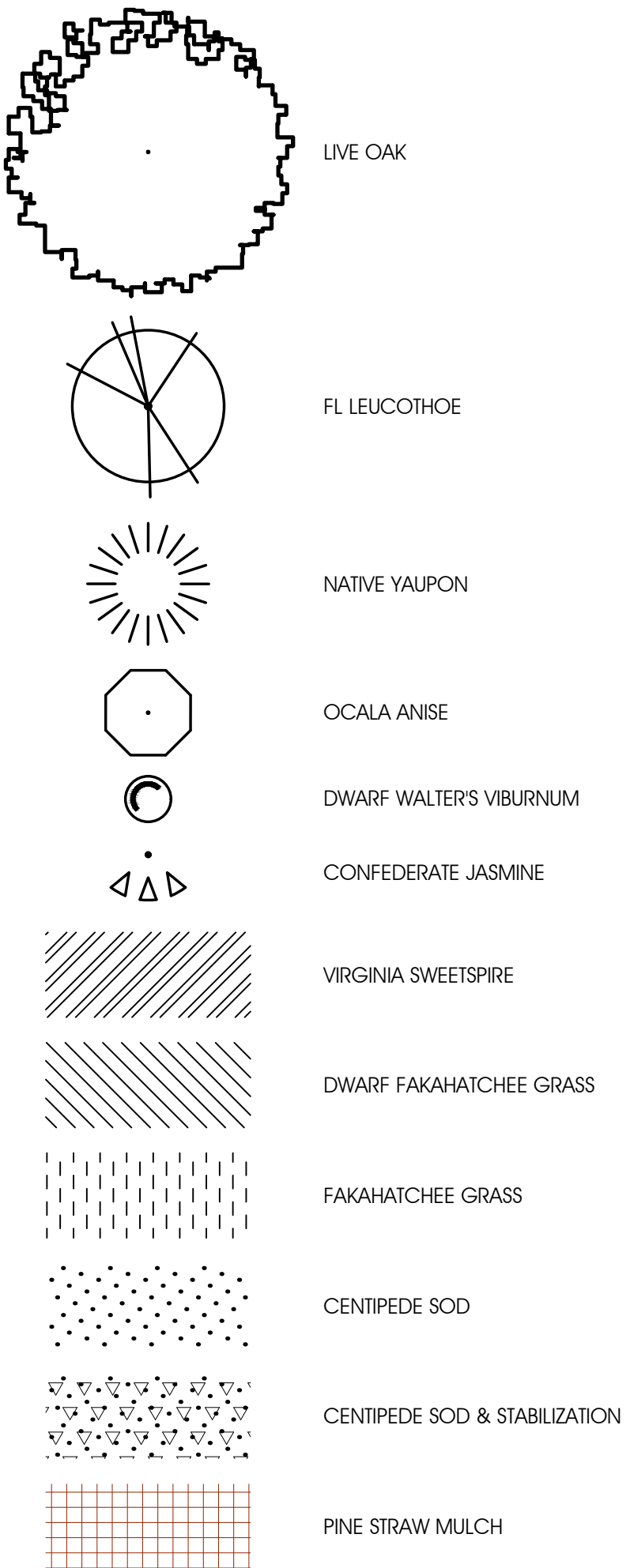
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GRAPHIC SCALE



LEGEND

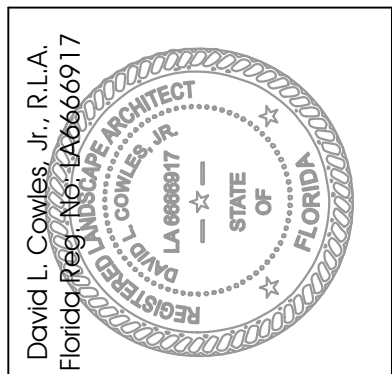
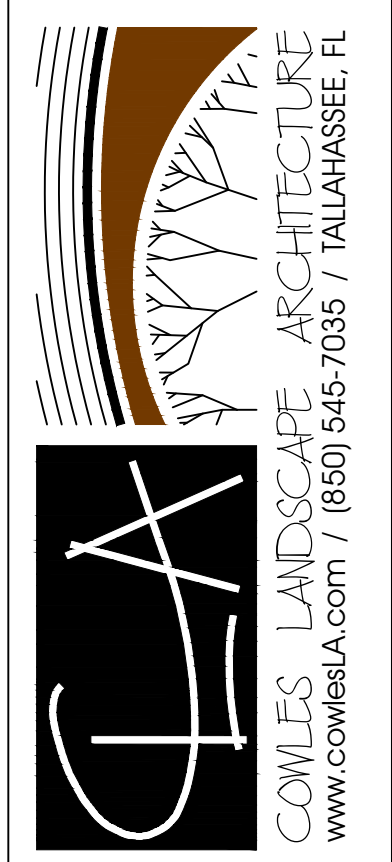


REVISIONS					

PROJECT NAME	MERIDIAN ROAD DRAINAGE IMPROVEMENTS
CLIENT NAME	STANTEC

DATE: 12/12/2019
DRAWN BY: DLC

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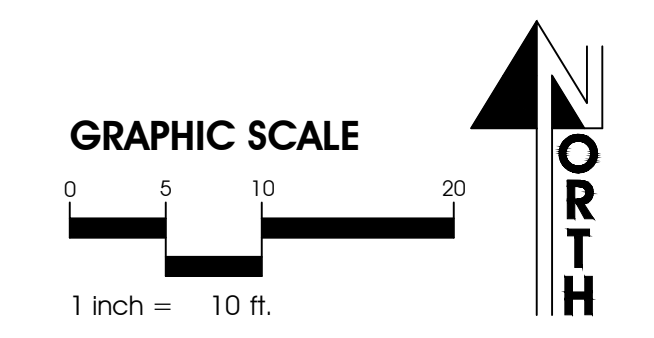
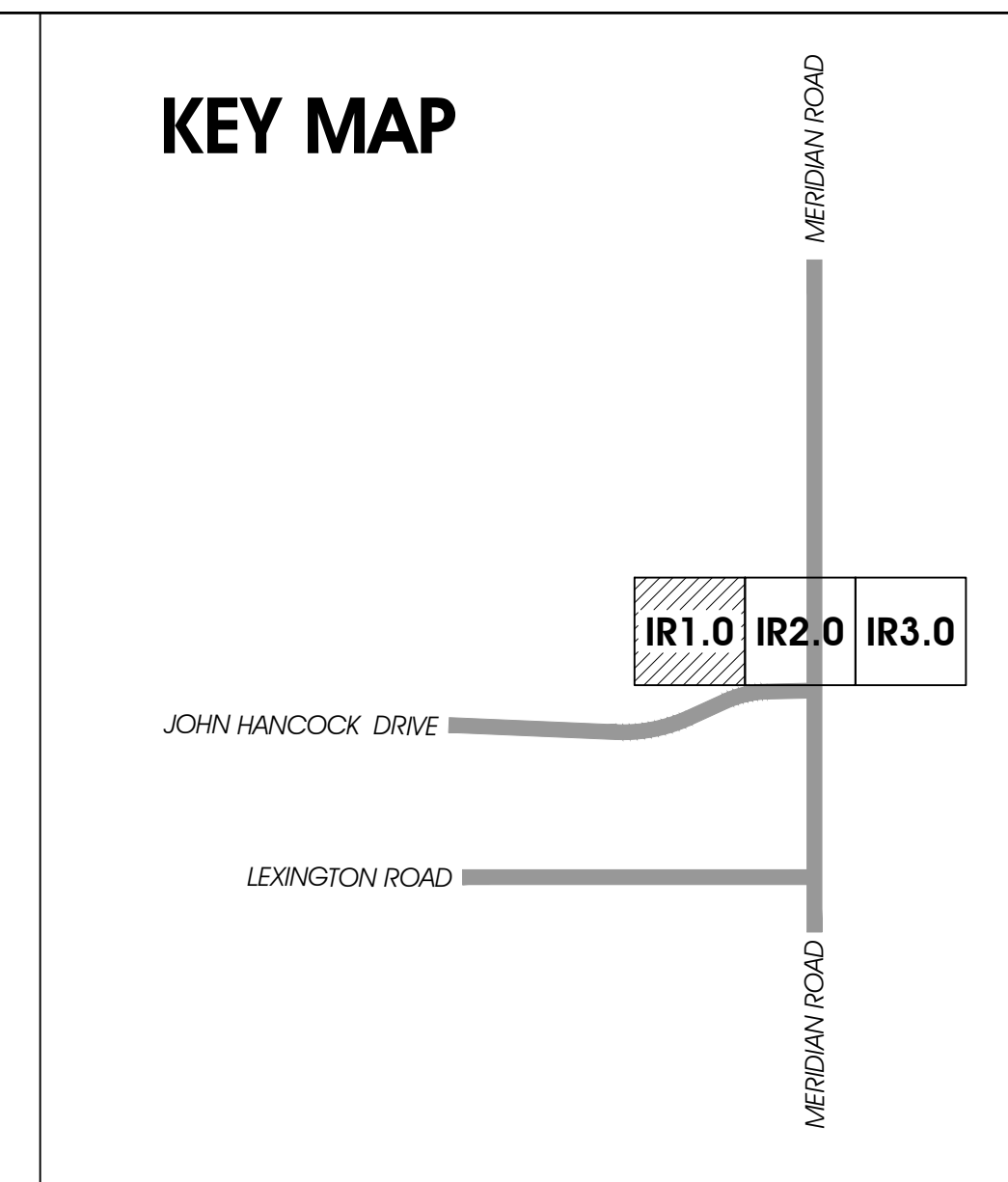
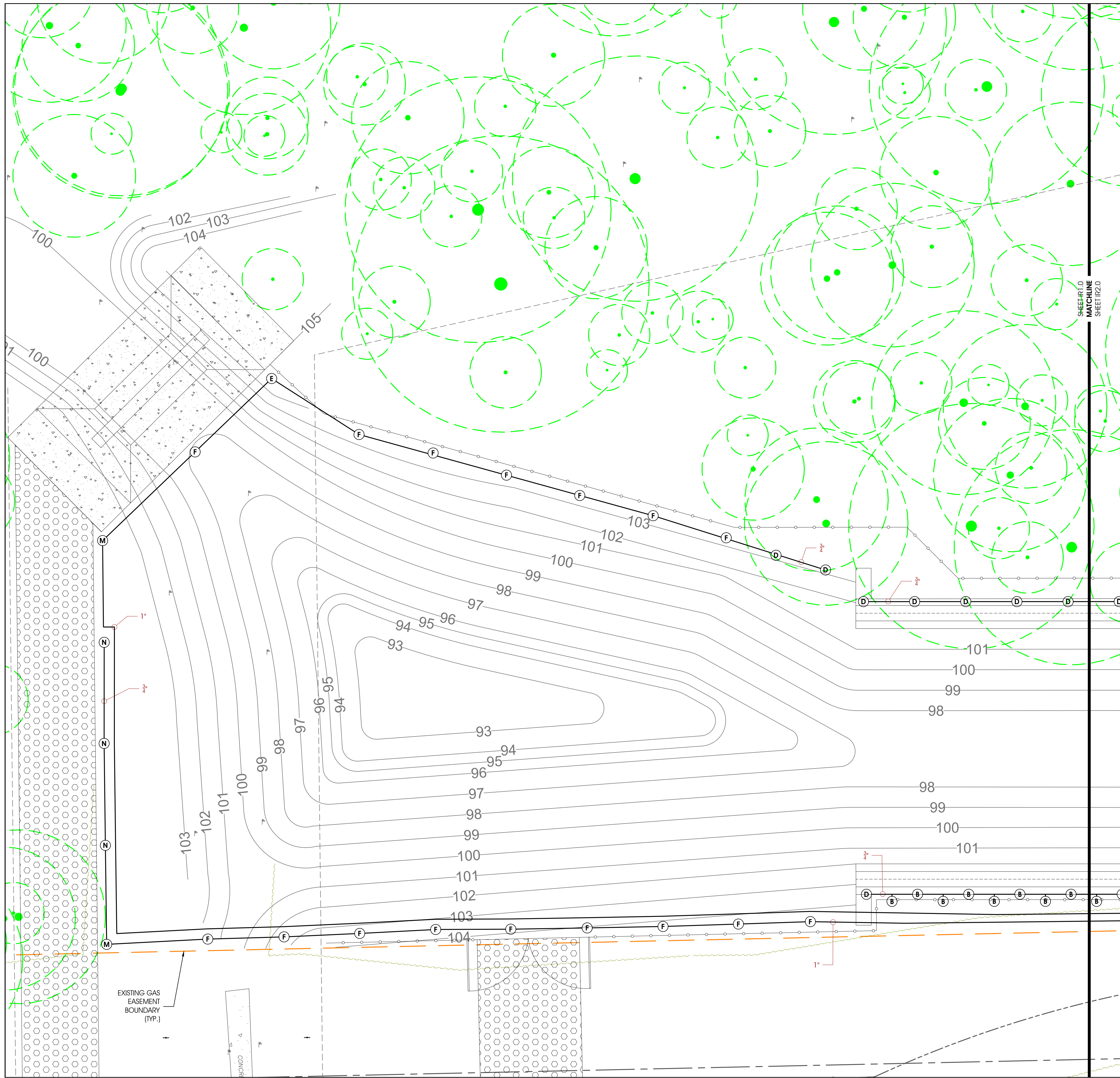


LANDSCAPE PLAN

SHEET TITLE

SHEET

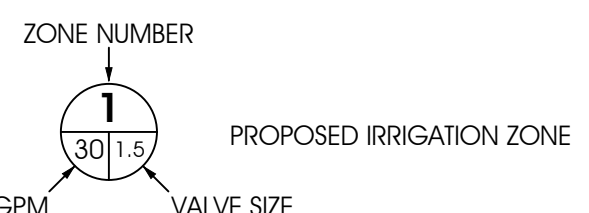
LS7.0



IRRIGATION SCHEDULE

SYMBOL	MANF. NUMBER	GPM	PSI	RAD.	REMARKS
<i>HUNTER MP ROTATOR</i>					
(A)	PROS - 12 - PRS40 - CV - MP800SR-90	0.23	40	10'	12" POP-UP
(B)	PROS - 12 - PRS40 - CV - MP800SR-180	0.42	40	10'	12" POP-UP
(C)	PROS - 12 - PRS40 - CV - MP800SR-210	0.43	40	10'	12" POP-UP
(D)	PROS - 12 - PRS40 - CV - MP800SR-360	0.78	40	10'	12" POP-UP
(E)	PROS - 12 - PRS40 - CV - MP1000-90	0.19	40	14'	12" POP-UP
(F)	PROS - 12 - PRS40 - CV - MP1000-180	0.37	40	14'	12" POP-UP
(G)	PROS - 12 - PRS40 - CV - MP1000-210	0.43	40	14'	12" POP-UP
(H)	PROS - 12 - PRS40 - CV - MP1000-270	0.57	40	14'	12" POP-UP
(I)	PROS - 12 - PRS40 - CV - MP1000-360	0.75	40	14'	12" POP-UP
(J)	PROS - 12 - PRS40 - CV - MPCORNER-45	0.19	40	14'	12" POP-UP
(K)	PROS - 12 - PRS40 - CV - MPCORNER-90	0.39	40	14'	12" POP-UP
(L)	PROS - 12 - PRS40 - CV - MPCORNER-105	0.45	40	14'	12" POP-UP
(M)	PROS - 12 - PRS40 - CV - MP2000-90	0.40	40	19'	12" POP-UP
(N)	PROS - 12 - PRS40 - CV - MP2000-180	0.74	40	19'	12" POP-UP
(O)	PROS - 12 - PRS40 - CV - MP2000-210	0.86	40	19'	12" POP-UP
(P)	PROS - 12 - PRS40 - CV - MP2000-270	1.10	40	19'	12" POP-UP
(Q)	PROS - 12 - PRS40 - CV - MP2000-360	1.47	40	19'	12" POP-UP
(R)	PROS - 12 - PRS40 - CV - MPLCS515	0.22	40	5' X 15'	12" POP-UP
(S)	PROS - 12 - PRS40 - CV - MPRCS515	0.22	40	5' X 15'	12" POP-UP
(T)	PROS - 12 - PRS40 - CV - MPSS530	0.44	40	5' X 30'	12" POP-UP

- OTHER**
- (V) 1" ELECTRIC VALVE: HUNTER PGV 101
 - (M) 1" IRRIGATION METER
 - (B) 1" IRRIGATION BACKFLOW PREVENTER
 - (G) 1" GATE VALVE
 - (H) HOSE BIB PER DETAIL
 - (C) HUNTER PRO-C 12 STATIONS CONTROLLER: PCC-12
 - (R) RAIN SENSOR: HUNTER MINI-CLIK
 - (D) BURIED IRRIGATION LINE (PVC SCH 40)
 - (S) SCH 40 SLEEVE
 - (L) SCH 40 MAINLINE



NOTE:
IRRIGATION PIPING LOCATIONS MAY BE DRAWN FOR GRAPHIC CLARITY ONLY. WHENEVER POSSIBLE, PIPING IS TO BE INSTALLED IN SOIL AREAS & MAINLINE AND LATERAL LINES SHALL BE PLACED IN SAME TRENCH. PLACE IRRIGATION PIPING ALONG THE EDGE OF PAVEMENT IF POSSIBLE AND MINIMIZE TRENCHING UNDER EXISTING TREES.

REVISIONS

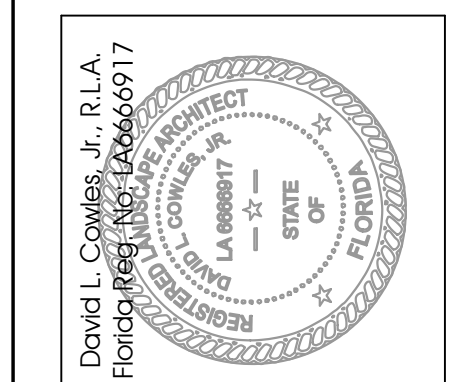
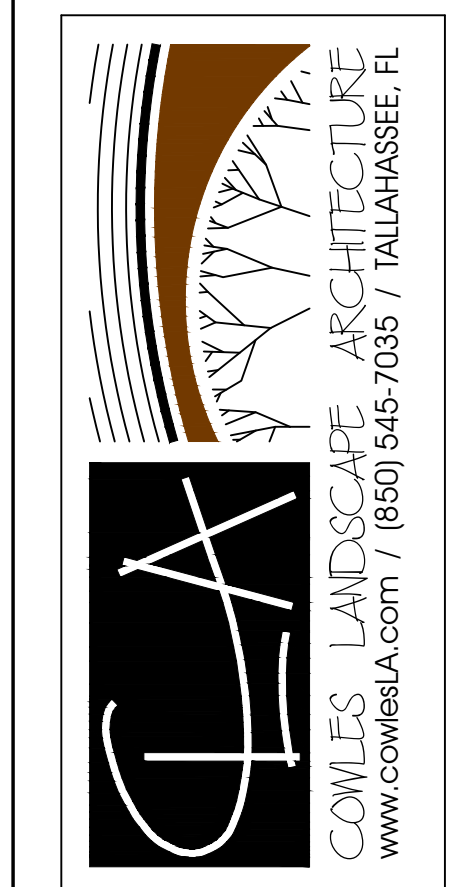
PROJECT NAME
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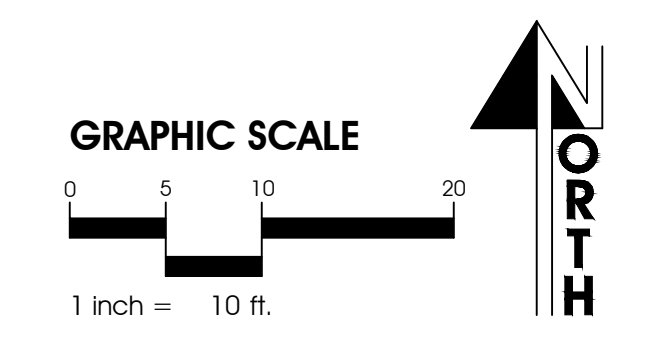
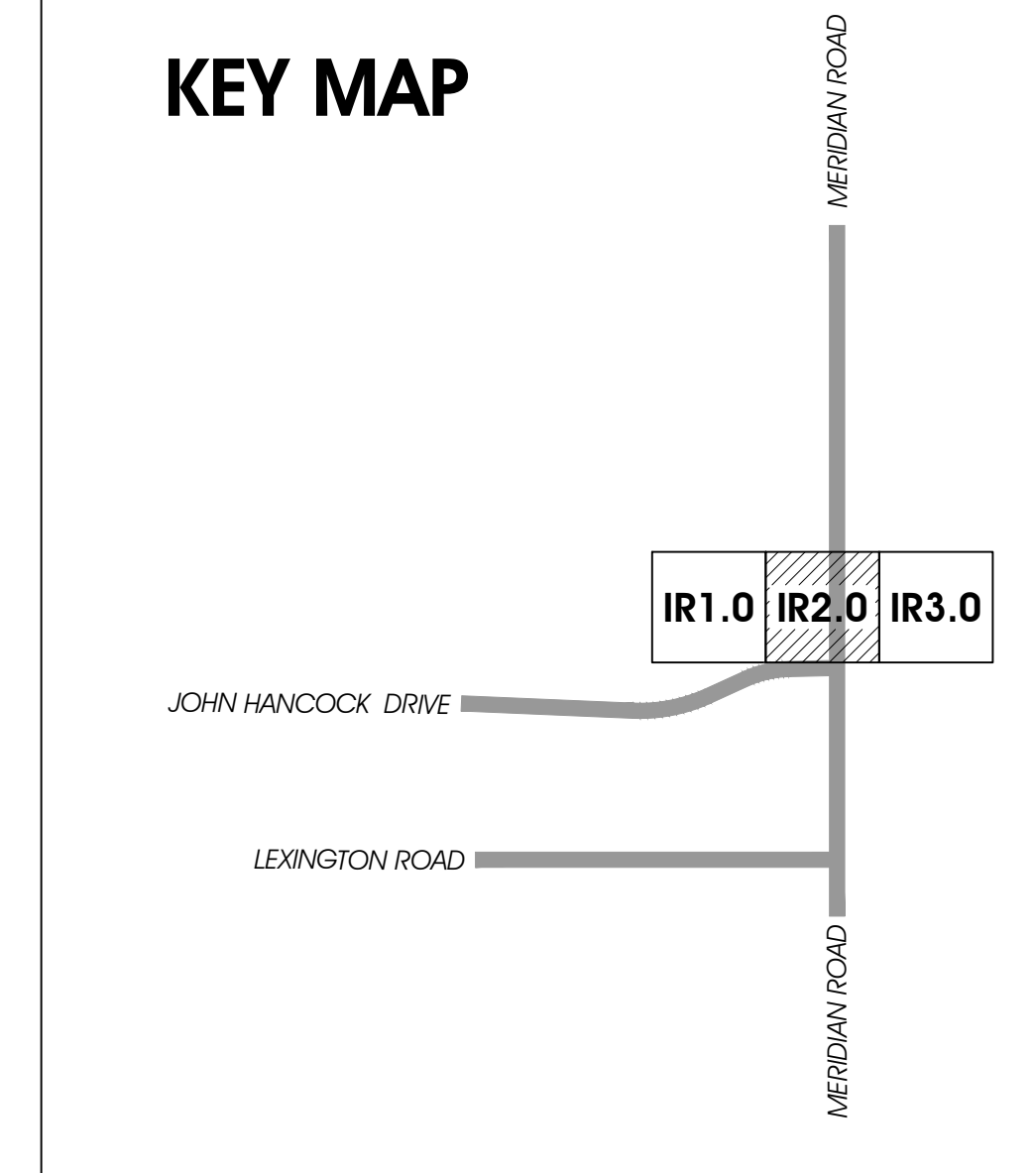
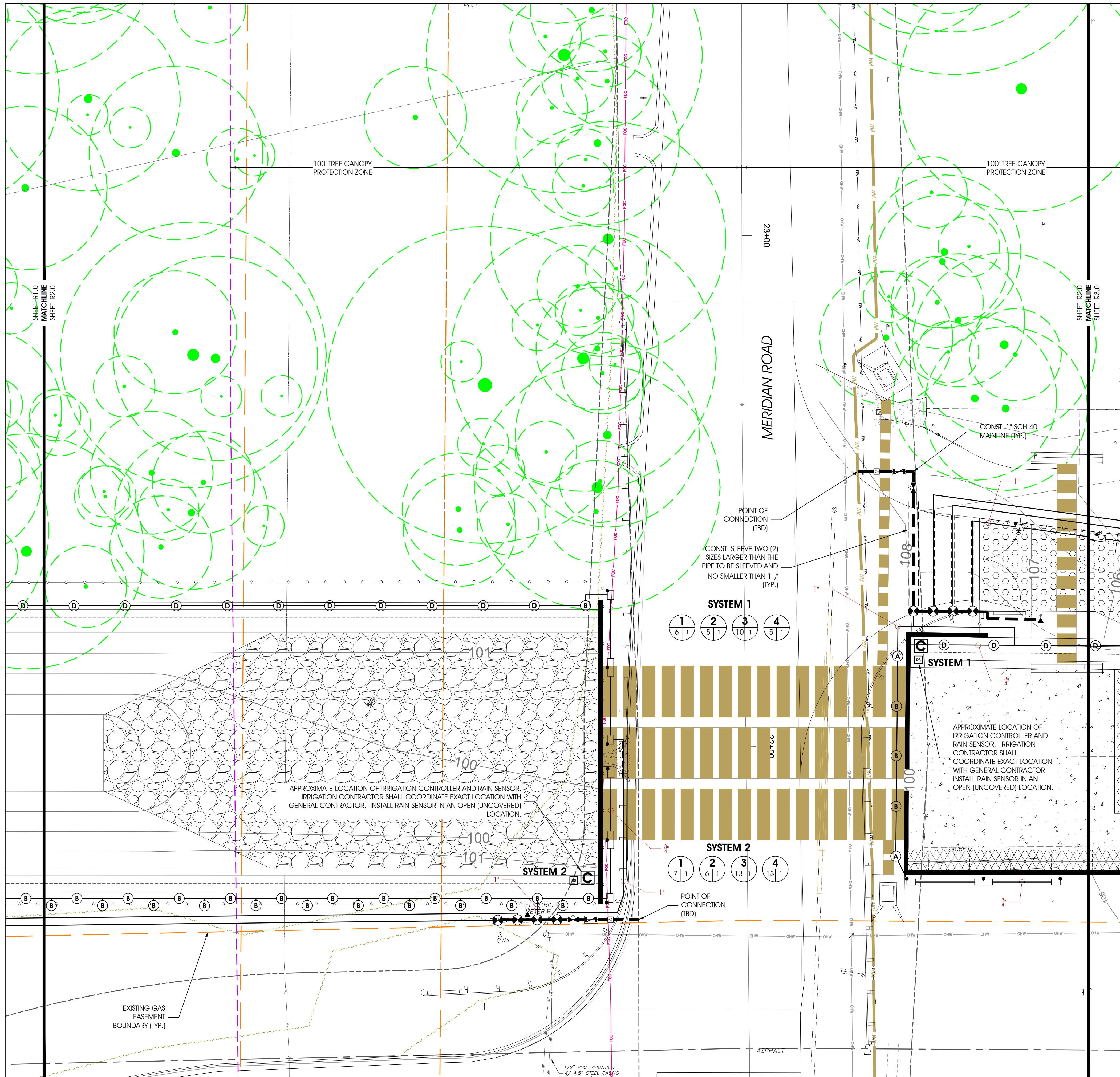
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SHEET TITLE
IRRIGATION PLAN

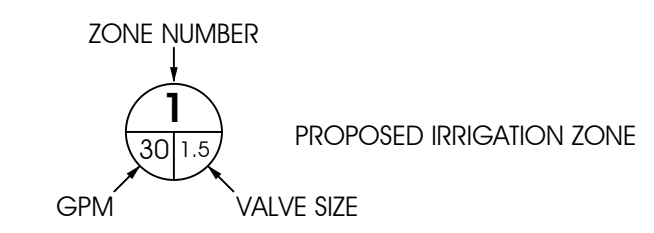
SHEET
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IRRIGATION SCHEDULE

SYMBOL	MANF. NUMBER	GPM	PSI	RAD.	REMARKS
HUNTER MP ROTATOR					
(A)	PROS - 12 - PRS40 - CV - MP800SR-90	0.23	40	10'	12" POP-UP
(B)	PROS - 12 - PRS40 - CV - MP800SR-180	0.42	40	10'	12" POP-UP
(C)	PROS - 12 - PRS40 - CV - MP800SR-210	0.43	40	10'	12" POP-UP
(D)	PROS - 12 - PRS40 - CV - MP800SR-360	0.78	40	10'	12" POP-UP
(E)	PROS - 12 - PRS40 - CV - MP1000-90	0.19	40	14'	12" POP-UP
(F)	PROS - 12 - PRS40 - CV - MP1000-180	0.37	40	14'	12" POP-UP
(G)	PROS - 12 - PRS40 - CV - MP1000-210	0.43	40	14'	12" POP-UP
(H)	PROS - 12 - PRS40 - CV - MP1000-270	0.57	40	14'	12" POP-UP
(I)	PROS - 12 - PRS40 - CV - MP1000-360	0.75	40	14'	12" POP-UP
(J)	PROS - 12 - PRS40 - CV - MPCORNER-45	0.19	40	14'	12" POP-UP
(K)	PROS - 12 - PRS40 - CV - MPCORNER-90	0.39	40	14'	12" POP-UP
(L)	PROS - 12 - PRS40 - CV - MPCORNER-105	0.45	40	14'	12" POP-UP
(M)	PROS - 12 - PRS40 - CV - MP2000-90	0.40	40	19'	12" POP-UP
(N)	PROS - 12 - PRS40 - CV - MP2000-180	0.74	40	19'	12" POP-UP
(O)	PROS - 12 - PRS40 - CV - MP2000-210	0.86	40	19'	12" POP-UP
(P)	PROS - 12 - PRS40 - CV - MP2000-270	1.10	40	19'	12" POP-UP
(Q)	PROS - 12 - PRS40 - CV - MP2000-360	1.47	40	19'	12" POP-UP
(R)	PROS - 12 - PRS40 - CV - MPLCS515	0.22	40	5' X 15'	12" POP-UP
(S)	PROS - 12 - PRS40 - CV - MPRCS515	0.22	40	5' X 15'	12" POP-UP
(T)	PROS - 12 - PRS40 - CV - MPSS530	0.44	40	5' X 30'	12" POP-UP

- OTHER**
- 1" ELECTRIC VALVE: HUNTER PGV 101
 - 1" IRRIGATION METER
 - 1" IRRIGATION BACKFLOW PREVENTER
 - 1" GATE VALVE
 - HOSE BIB PER DETAIL
 - HUNTER PRO-C 12 STATIONS CONTROLLER: PCC-12
 - RAIN SENSOR: HUNTER MINI-CLIK
 - BURIED IRRIGATION LINE (PVC SCH 40)
 - SCH 40 SLEEVE
 - SCH 40 MAINLINE



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REVISIONS

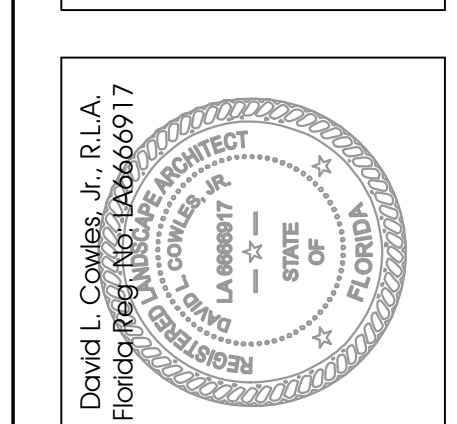
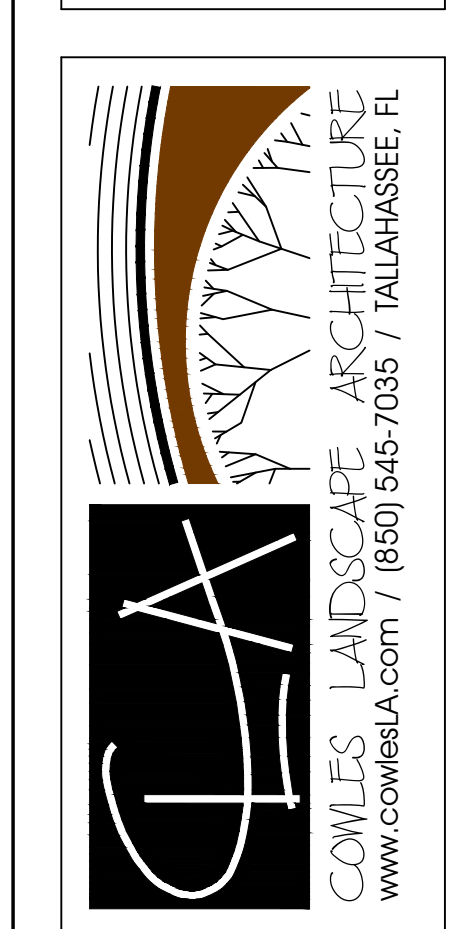
PROJECT NAME
MERIDIAN ROAD DRAINAGE IMPROVEMENTS

CLIENT NAME
STANTEC

DATE: 12/12/2019

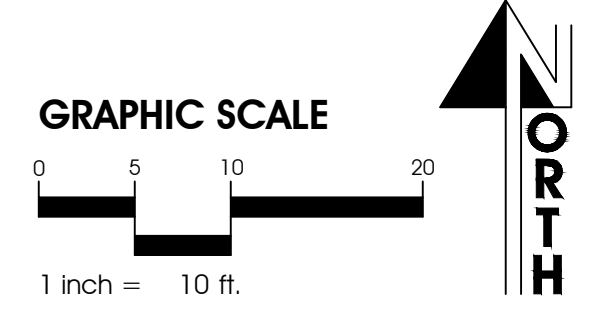
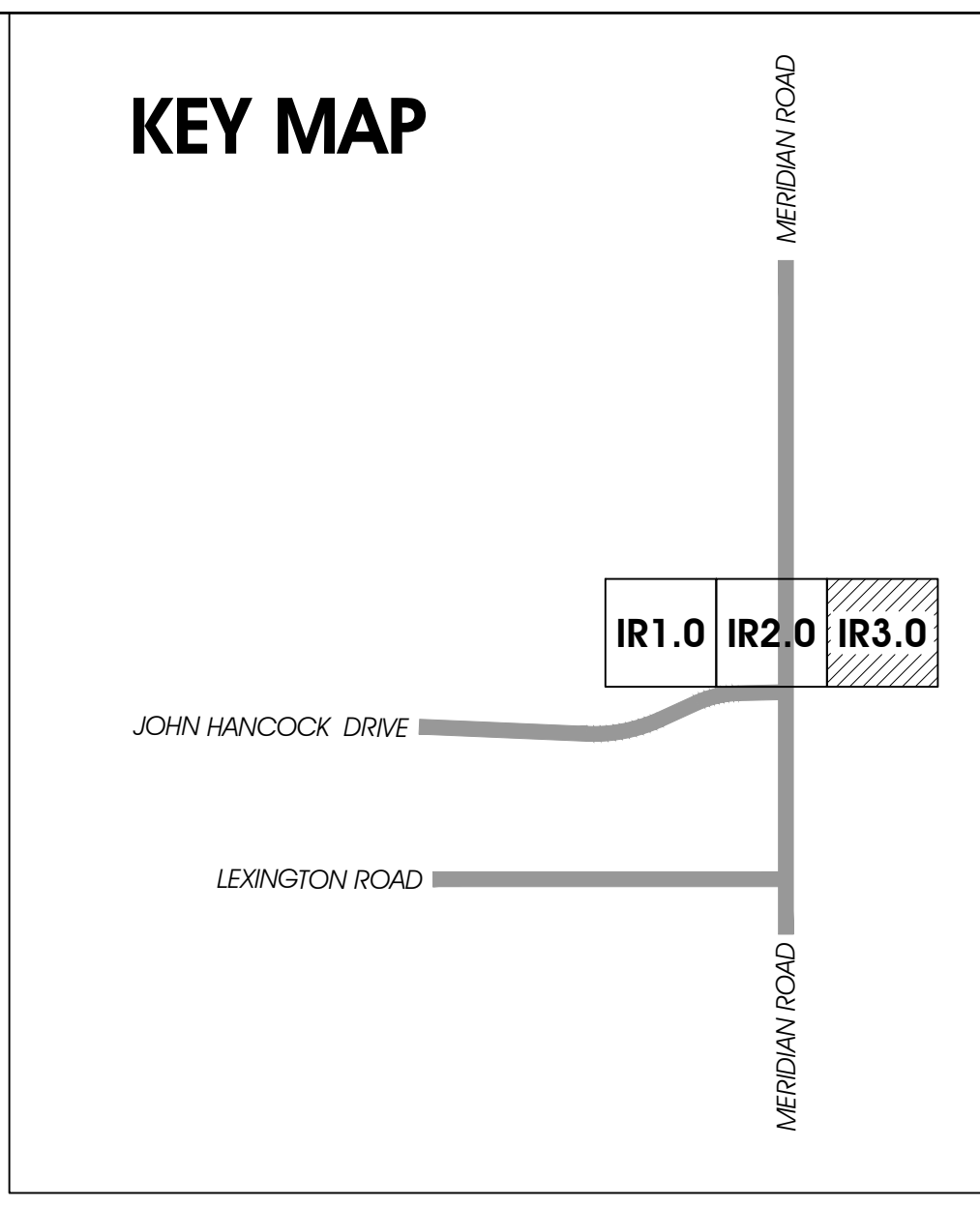
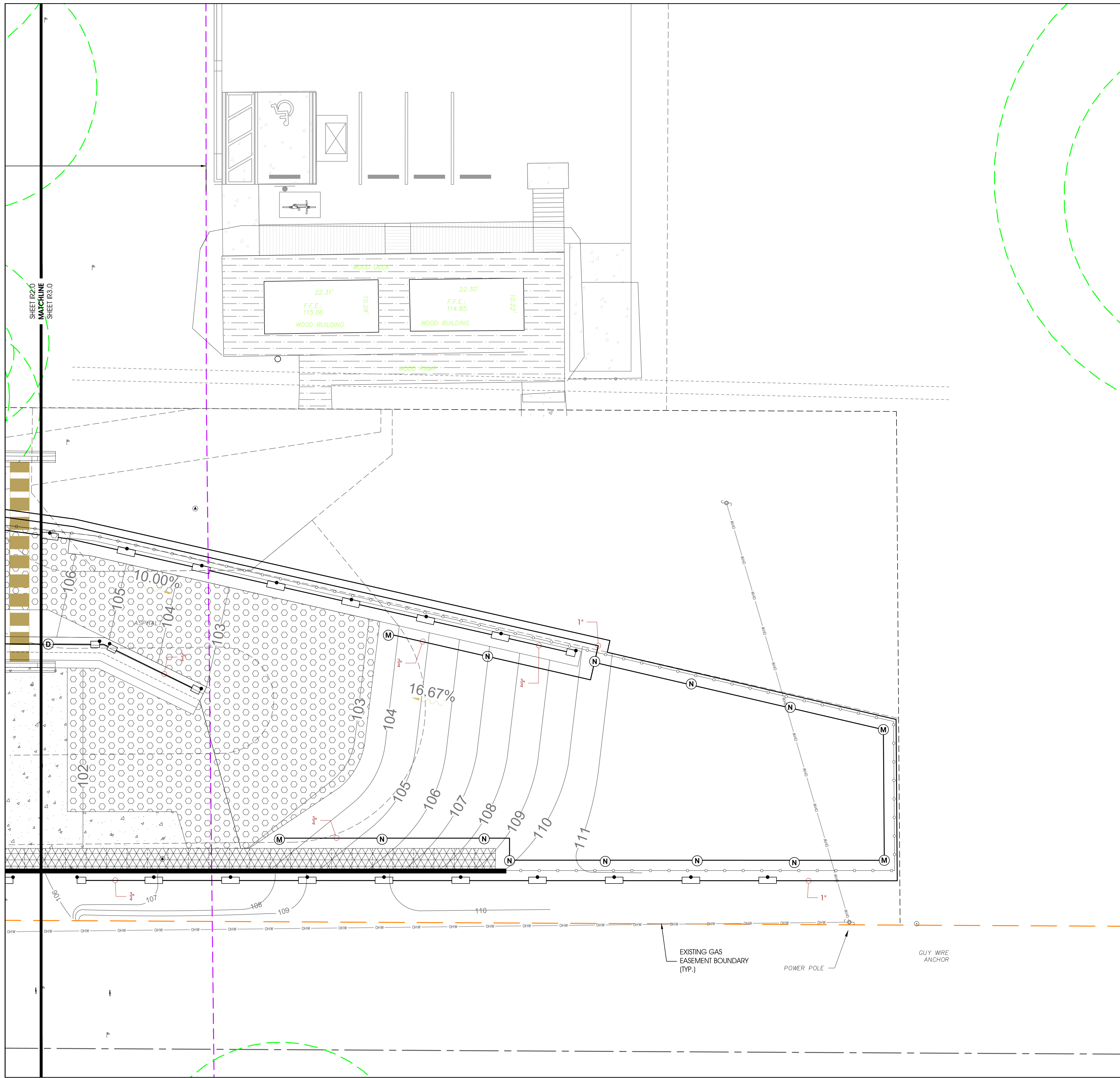
DRAWN BY: DLC

COWLES LANDSCAPE ARCHITECTURE (CLA)
2285 LESCOTT DRIVE
TALLAHASSEE, FL 32308
(850) 545-7035
www.cowlesLA.com



SHEET TITLE
IRRIGATION PLAN

SHEET
IR2.0



IRRIGATION SCHEDULE

SYMBOL	MANF. NUMBER	GPM	PSI	RAD.	REMARKS
<i>HUNTER MP ROTATOR</i>					
(A)	PROS - 12 - PRS40 - CV - MP800SR-90	0.23	40	10'	12" POP-UP
(B)	PROS - 12 - PRS40 - CV - MP800SR-180	0.42	40	10'	12" POP-UP
(C)	PROS - 12 - PRS40 - CV - MP800SR-210	0.43	40	10'	12" POP-UP
(D)	PROS - 12 - PRS40 - CV - MP800SR-360	0.78	40	10'	12" POP-UP
(E)	PROS - 12 - PRS40 - CV - MP1000-90	0.19	40	14'	12" POP-UP
(F)	PROS - 12 - PRS40 - CV - MP1000-180	0.37	40	14'	12" POP-UP
(G)	PROS - 12 - PRS40 - CV - MP1000-210	0.43	40	14'	12" POP-UP
(H)	PROS - 12 - PRS40 - CV - MP1000-270	0.57	40	14'	12" POP-UP
(I)	PROS - 12 - PRS40 - CV - MP1000-360	0.75	40	14'	12" POP-UP
(J)	PROS - 12 - PRS40 - CV - MPCORNER-45	0.19	40	14'	12" POP-UP
(K)	PROS - 12 - PRS40 - CV - MPCORNER-90	0.39	40	14'	12" POP-UP
(L)	PROS - 12 - PRS40 - CV - MPCORNER-105	0.45	40	14'	12" POP-UP
(M)	PROS - 12 - PRS40 - CV - MP2000-90	0.40	40	19'	12" POP-UP
(N)	PROS - 12 - PRS40 - CV - MP2000-180	0.74	40	19'	12" POP-UP
(O)	PROS - 12 - PRS40 - CV - MP2000-210	0.86	40	19'	12" POP-UP
(P)	PROS - 12 - PRS40 - CV - MP2000-270	1.10	40	19'	12" POP-UP
(Q)	PROS - 12 - PRS40 - CV - MP2000-360	1.47	40	19'	12" POP-UP
(R)	PROS - 12 - PRS40 - CV - MPLCS515	0.22	40	5' X 15'	12" POP-UP
(S)	PROS - 12 - PRS40 - CV - MPRCS515	0.22	40	5' X 15'	12" POP-UP
(T)	PROS - 12 - PRS40 - CV - MPSS530	0.44	40	5' X 30'	12" POP-UP
<i>OTHER</i>					
(V)	1" ELECTRIC VALVE; HUNTER PGV 101				
(W)	1" IRRIGATION METER				
(X)	1" IRRIGATION BACKFLOW PREVENTER				
(Y)	1" GATE VALVE				
(Z)	HOSE BIB PER DETAIL				
(AA)	HUNTER PRO-C 12 STATIONS CONTROLLER: PCC-12				
(AB)	RAIN SENSOR: HUNTER MINI-CLIK				
(AC)	BURIED IRRIGATION LINE (PVC SCH 40)				
(AD)	SCH 40 SLEEVE				
(AE)	SCH 40 MAINLINE				
<i>ZONE NUMBER</i>					
(AF)	1				PROPOSED IRRIGATION ZONE
<i>GPM</i>					
(AG)	30				VALVE SIZE

NOTE:
IRRIGATION PIPING LOCATIONS MAY BE DRAWN FOR GRAPHIC CLARITY ONLY. WHENEVER POSSIBLE, PIPING IS TO BE INSTALLED IN SOIL AREAS & MAINLINE AND LATERAL LINES SHALL BE PLACED IN SAME TRENCH. PLACE IRRIGATION PIPING ALONG THE EDGE OF PAVEMENT IF POSSIBLE AND MINIMIZE TRENCHING UNDER EXISTING TREES.

REVISIONS

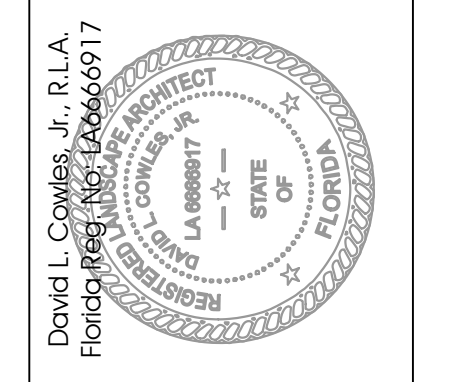
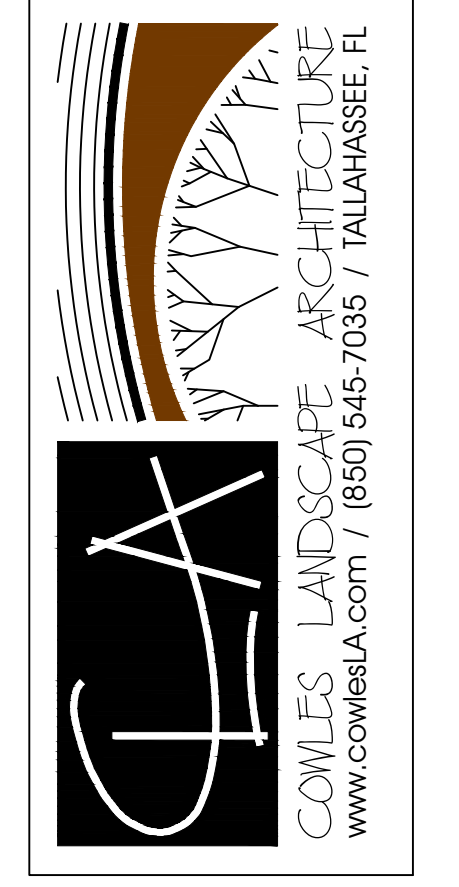
PROJECT NAME
MERIDIAN ROAD DRAINAGE IMPROVEMENTS

CLIENT NAME
STANTEC

DATE: 12/12/2019

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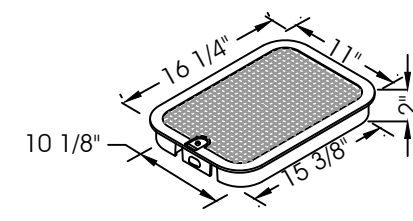


SHEET TITLE
IRRIGATION PLAN

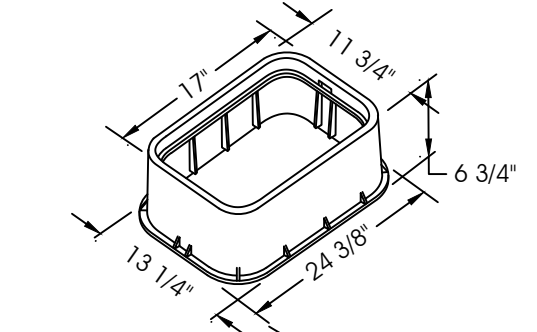
SHEET
IR3.0

PART NUMBER	DESCRIPTION - MARKING	COLOR (BOX/COVER)	PALLET QTY.	PRODUCT CLASS
BOX & COVER 314BC	14"X19" BOX, OVERLAPPING COVER - ICV 14"X19" CORRUGATED BOX, OVERLAPPING	GREEN/ GREEN	84	20PR
314BCB	BOLT-DOWN COVER - ICV	GREEN/ GREEN	84	20PR
314BCSAND	14"X19" BOX, OVERLAPPING COVER - ICV OVERLAPPING COVER - ICV	SAND/ SAND	84	20PR
314BCSAND	14"X19" CORRUGATED BOX, OVERLAPPING BOLT-DOWN COVER - ICV	SAND/ SAND	84	20PR
314BNHCVG	14" X 19" CORRUGATED BOX W/NO HOLES HOLES, OVERLAPPING COVER	PURPLE/ PURPLE	84	20PR
314PBCR	14"X19" BOX, OVERLAPPING COVER - RECLAIMED WATER	PURPLE/ PURPLE	84	20PR
314PBCRB	14"X19" CORRUGATED BOX, OVERLAPPING RECLAIMED WATER	PURPLE/ PURPLE	84	20PR
314PBCRNH	14"X19" CORRUGATED BOX W/ NO HOLES, OVERLAPPING COVER - RECLAIMED WATER	PURPLE/ PURPLE	84	20PR
314PCRG	14"X19" BOX, 14"X19" OVERLAPPING COVER - RECLAIMED WATER	GREEN/ GREEN	84	20PR
COVER ONLY				
313C	14"X19" OVERLAPPING COVER - ICV	GREEN	300	20PR
313CSAND	14"X19" OVERLAPPING COVER - ICV	SAND	300	20PR
313CR	14"X19" OVERLAPPING COVER - RECLAIMED WATER	PURPLE	300	20PR
313CRG	14"X19" OVERLAPPING COVER - RECLAIMED WATER	GREEN	300	20PR
BOX ONLY				
313B	14"X19" BOX	GREEN	84	20PR
313BSAND	14"X19" BOX	SAND	84	20PR
313B	14"X19" BOX	PURPLE	84	20PR
314PB	14"X19" BOX	GREEN	84	20PR
314BNH	14"X19" CORRUGATED BOX W/ NO HOLES	PURPLE	84	20PR
314PBNH	14"X19" CORRUGATED BOX W/ NO HOLES	GREEN	49	20PR
214-6	14"X19"X6" EXTENSION	STEEL	(BAG OF 10)	20NM
11388	2-1/2" X 3/8" SS NUT			

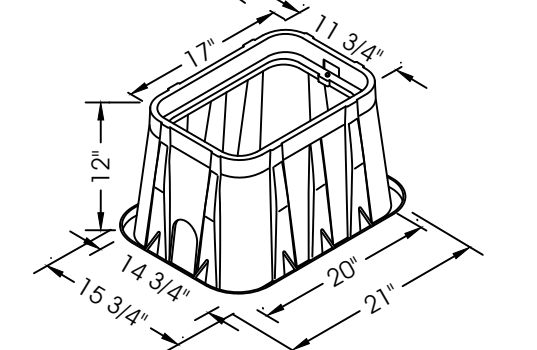
MANUFACTURER:
NDS, INC.
851 NORTH HARVARD AVE.
LINDSAY, CA 93247
www.ndspro.com
TOLL FREE: 1-800-726-1994
PHONE: (559) 562-9888
FAX: (559) 562-4488



PERSPECTIVE



PERSPECTIVE



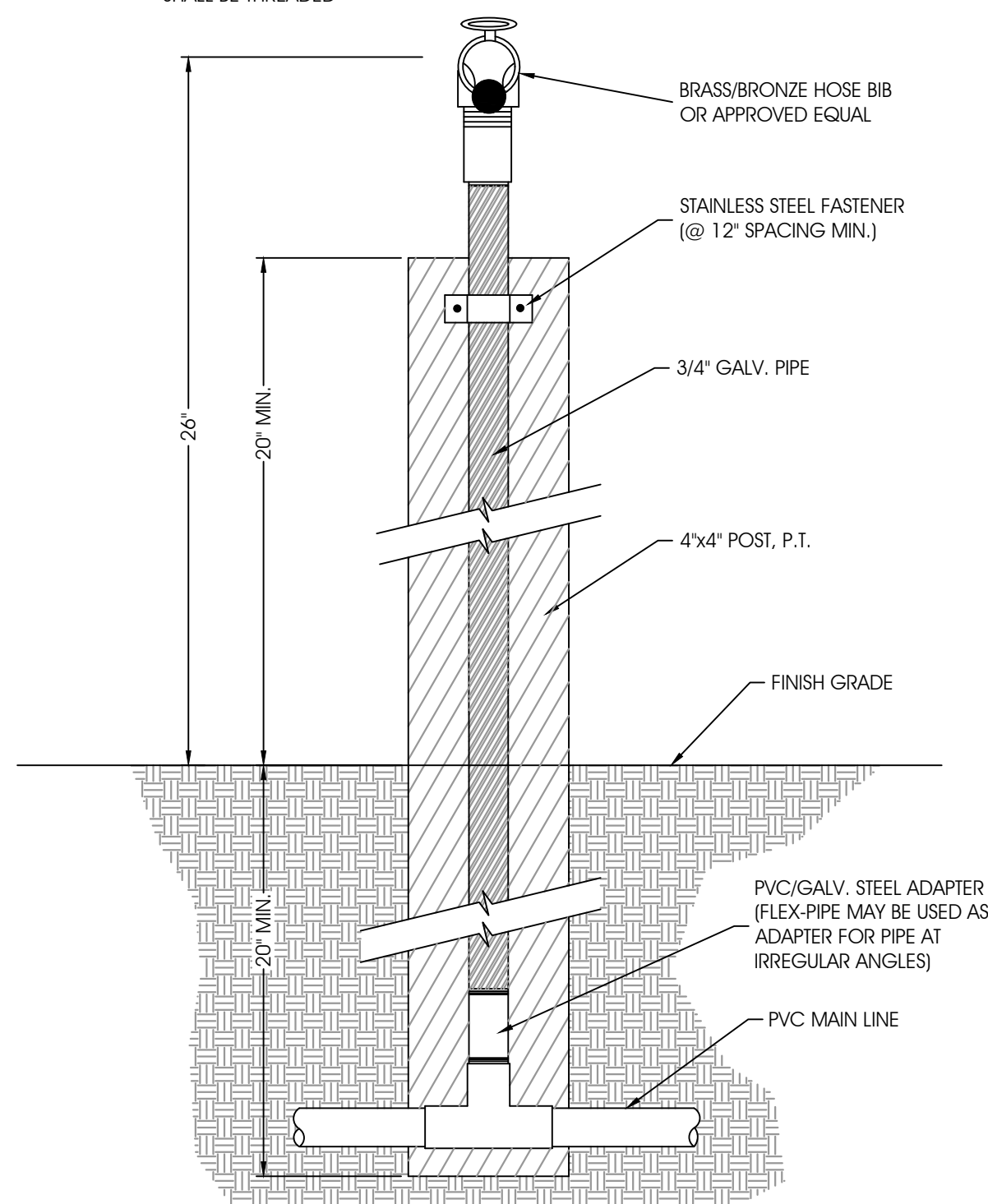
PERSPECTIVE

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

PRO PLUS SERIES VALVE BOXES DETAIL

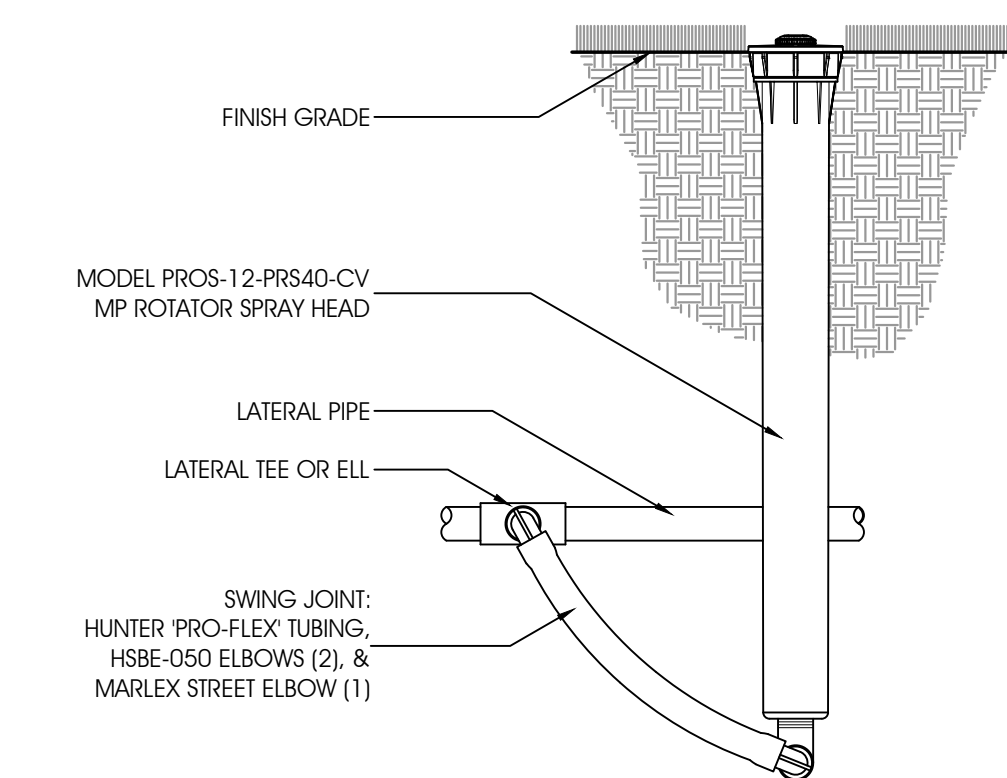
NOT TO SCALE

ALL CONNECTIONS SHALL BE THREADED



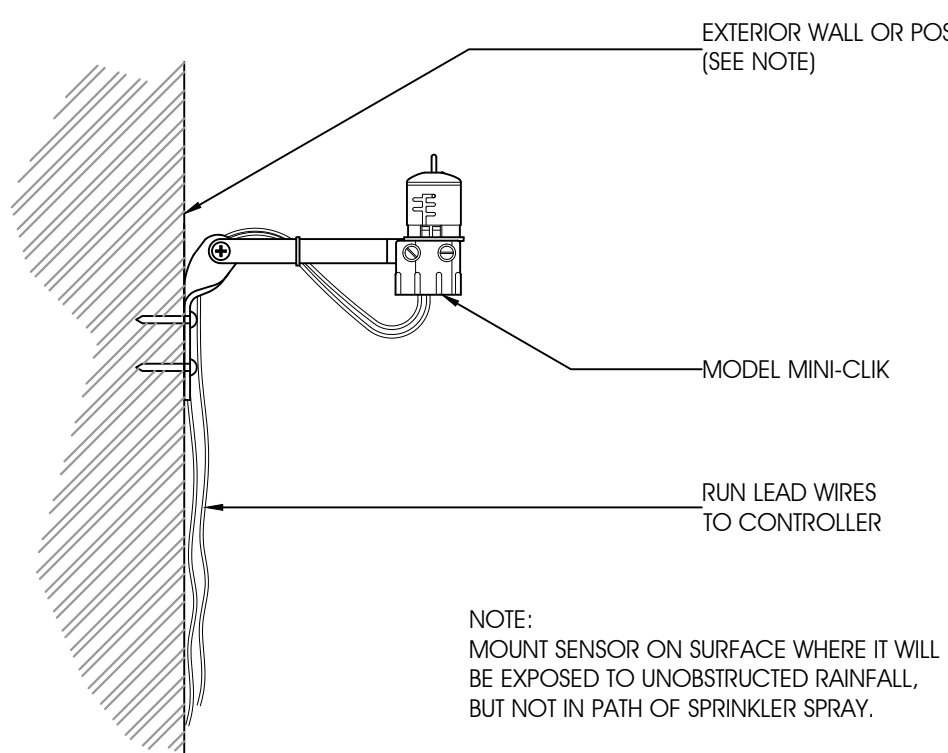
HOSE BIB DETAIL (POST RISER)

NOT TO SCALE



HUNTER PROS-12-PRS40-CV SPRAY HEAD DETAIL

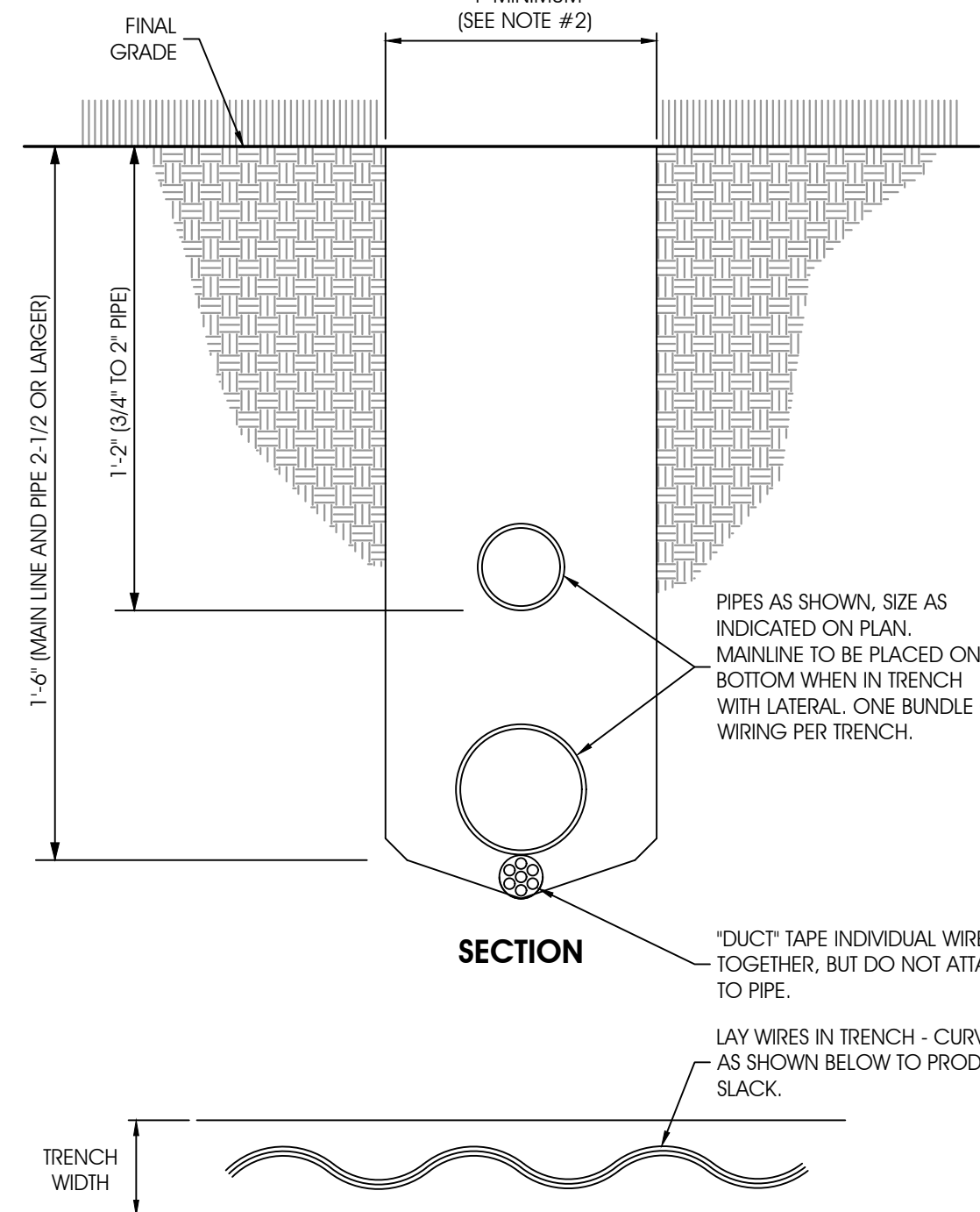
NOT TO SCALE



HUNTER MINI-CLIK RAIN SENSOR DETAIL

NOT TO SCALE

- NOTES:
1. PREVENT UNCOVERED PIPE FROM FLOATING UP DURING RAINS. PIPE WHICH FLOATS UP DUE TO WATER ACCUMULATION IN TRENCH SHALL BE RESET TO SPECIFIED DEPTHS AT NO EXTRA COSTS.
2. TRENCH WIDTH TO BE SIZED ACCORDING TO NEEDS. DO NOT DIG EXCESSIVELY WIDE TRENCH SO AS TO MINIMIZE DAMAGE TO SURROUNDING SOILS AND VEGETATION.

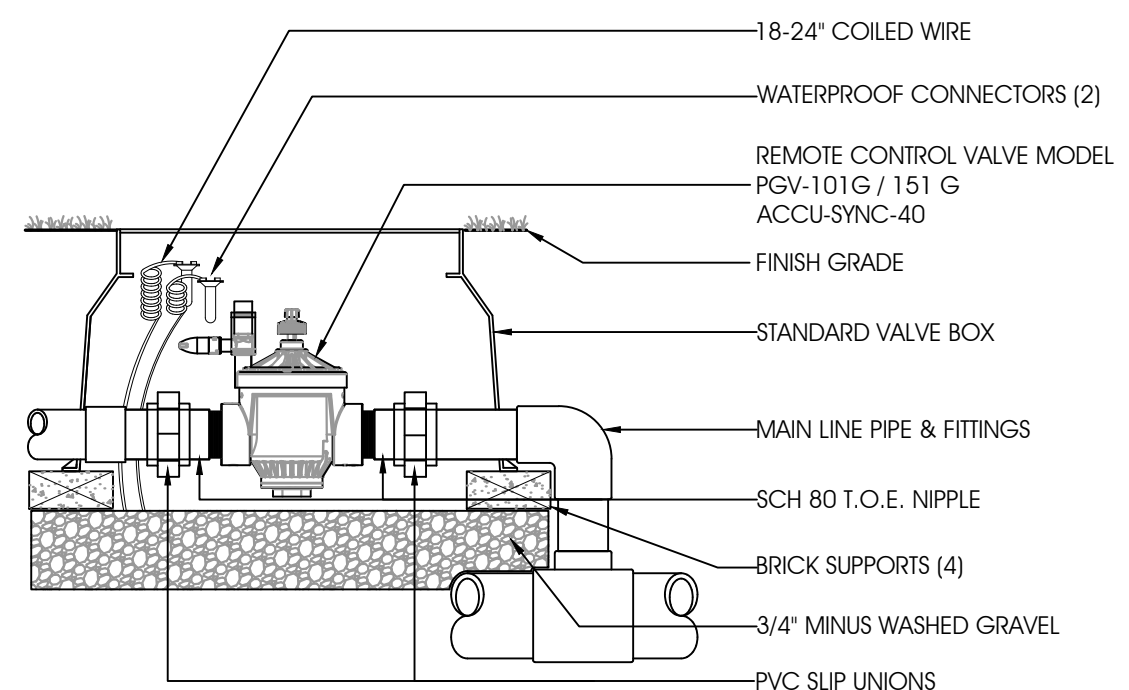


TRENCHING DETAIL

NOT TO SCALE

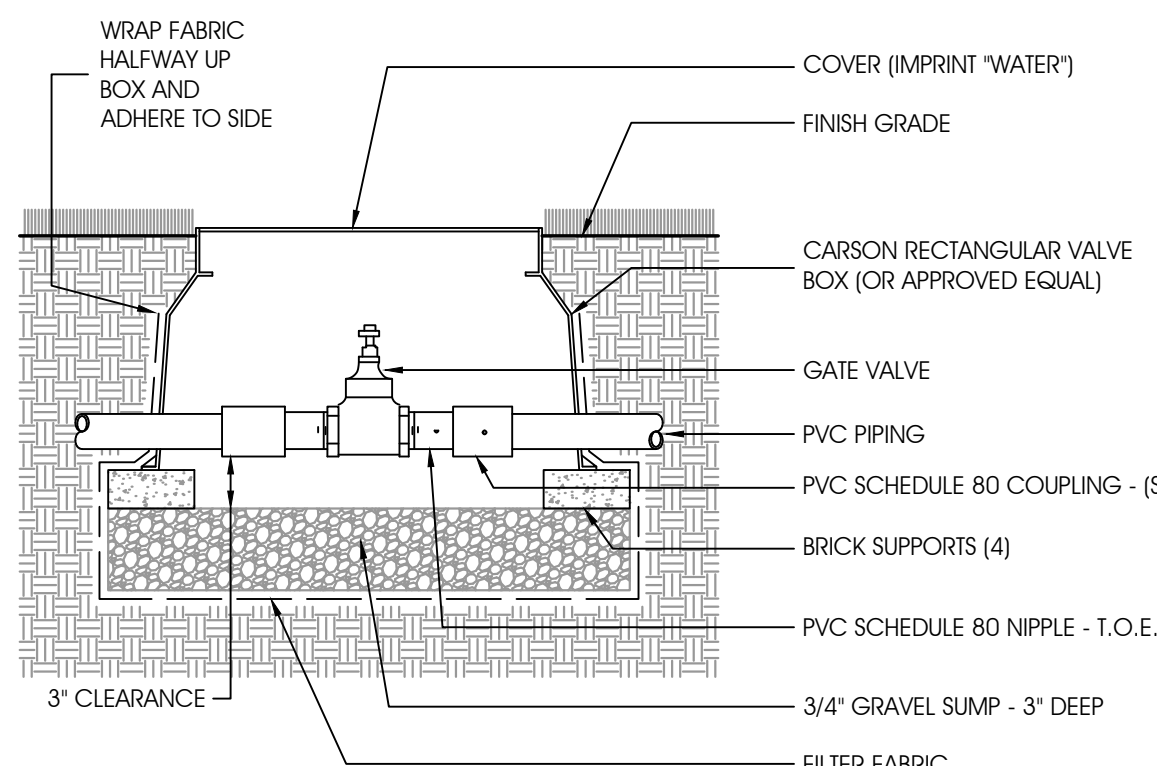
-WATERING SCHEDULE-

ZONE	GPM	PROGRAM	TIME/DAY	DAYS/WEEK	DAYS/WEEK (AT INITIAL PLANTING)				
					WEEK #1	WEEK #2	WEEK #3	WEEK #4	
					SYSTEM 1	1	6	BED	30 MIN.
	2	5	BED	30 MIN.	2	7	5	4	3
	3	10	TURF	30 MIN.	2	7	5	4	3
	4	5	BED	30 MIN.	2	7	5	4	3
SYSTEM 2	1	7	TURF	30 MIN.	2	7	5	4	3
	2	6	TURF	30 MIN.	2	7	5	4	3
	3	13	BED	30 MIN.	2	7	5	4	3
	4	13	BED	30 MIN.	2	7	5	4	3



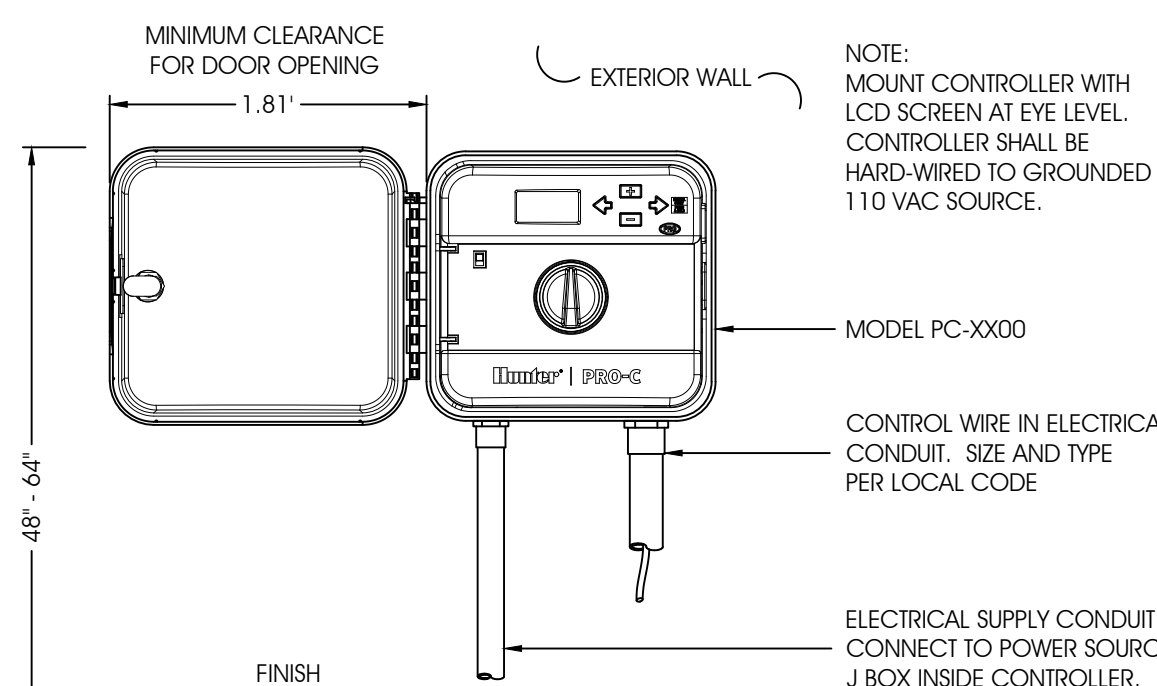
HUNTER PGV GLOBE VALVE DETAIL

NOT TO SCALE



GATE VALVE DETAIL

NOT TO SCALE



HUNTER PRO-C WALL-MOUNT CONTROLLER DETAIL

NOT TO SCALE

IRRIGATION NOTES:

- IRRIGATION SYSTEM DESIGN REQUIREMENTS: MIN. 30 GPM @ 80 PSI @ THE WATER SOURCE.
- VALVE NUMBERS INDICATE CONTROLLER STATION TO WHICH THAT VALVE IS TO BE CONNECTED.
- AUTOMATIC ELECTRIC VALVES AND ISOLATION VALVES ARE TO BE INSTALLED IN RECTANGULAR VALVE BOXES PER DETAIL OR AS APPROVED.
- WIRE CONNECTIONS TO THE ELECTRIC VALVES ARE TO BE MADE WITH WATERPROOF WIRE CONNECTORS.
- ELECTRICAL WIRE IS TO BE TYPED UP 600 VOLT AWG - CONTROL CABLE, COMMON OR GROUND WIRE IS TO BE #14 OR LARGER AND WHITE IN COLOR. CONTROL OF HOT WIRE IS TO BE #14 OR LARGER AND ANY COLOR OTHER THAN WHITE.
- ALL VALVE WIRES SHALL BE TAPED AT 20\"/>

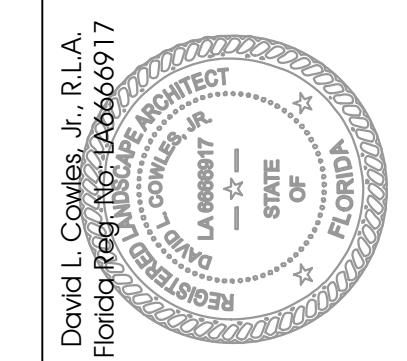
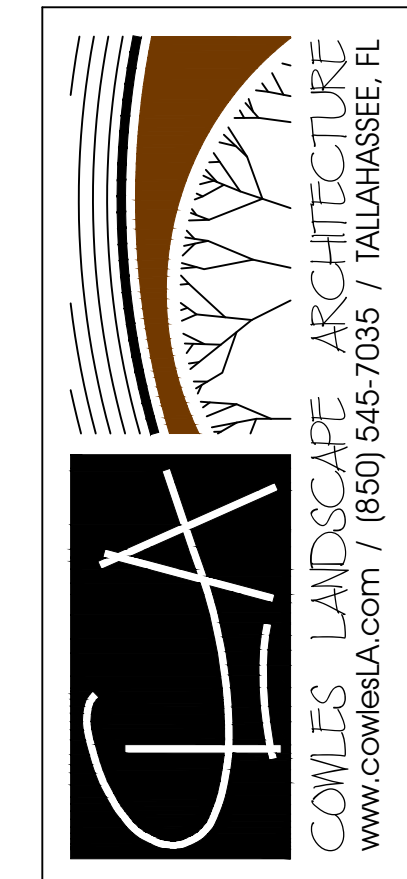
IRRIGATION SPECIFICATIONS

- GENERAL/PRODUCTS
 - SYSTEM SHALL CONFORM TO ALL LOCAL CROSS-CONNECTIONS, PLUMBING AND ELECTRICAL CODES.
 - ALL MATERIALS TO BE INCORPORATED IN THIS SYSTEM SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS. ALL PIPE DAMAGED OR DEFECTIVE BECAUSE OF DEFECTS SHALL BE REMOVED, WITH EXCEPTION TO RELOCATED MATERIAL FROM THE SITE AT THE TIME OF RELOCATION.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE AND GUARANTEE COMPLETE 100% COVERAGE OF THE AREAS SHOWN ON THE DRAWINGS TO BE IRRIGATED. HE SHALL ALSO GUARANTEE THE SATISFACTORY OPERATION OF THE ENTIRE SYSTEM AND THE RESTORATION OF THE SITE PRIOR TO WORK.
 - THE ENTIRE SYSTEM SHALL BE GUARANTEED TO BE COMPLETE AND FULLY OPERATIONAL FOR THE PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE. CONTRACTOR SHALL REPAIR OR REPLACE ANY DEFECTS OCCURRING WITHIN THAT YEAR, FREE OF EXPENSE TO THE OWNER.
 - AFTER FINAL ACCEPTANCE OF THE COMPLETED INSTALLATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING COMPLETE REPRODUCIBLE DRAWINGS PREPARED AND SHOWING ALL CHANGES. THESE DRAWINGS SHALL BE TURNED OVER TO THE OWNER.
 - PLASTIC PIPE LINE SHALL BE RIGID UN-PLASTICIZED, BELL END, PVC TYPE (1102,2120, ETC), SCHEDULE 40 PVC (ASTM-1785).
 - ALL PLASTIC PIPE FITTINGS SHALL BE SCHEDULE 40 PVC (ASTM D-2466) MOLDED FITTINGS MANUFACTURED OF THE SAME MATERIAL AS THE PIPE.
- AS-BUILTS
 - STATIC PRESSURE OF THE WATER SOURCE SHALL BE MEASURED AND NOTED ON THE SHOP DRAWINGS.
 - THE PRESSURE LOSS THROUGH THE SYSTEM SHALL BE INCLUDED AS PART OF THE SHOP DRAWINGS.
 - THE MAXIMUM AND MINIMUM PRESSURE AT THE BASE OF THE CLOSEST AND FURTHEST SPRINKLER SHALL BE INDICATED ON THE SHOP DRAWING.
 - ADEQUATE PRESSURE RELIEF, SURGE PROTECTION, THRUST RESTRAINT, AND AIR RELIEF VALVES SHALL BE USED FOR ALL PIPING.
- HYDROSTATIC TESTS
 - TESTING OF THE INSTALLED SYSTEM SHALL BE REQUESTED OF THE CONTRACTOR BY THE OWNER IN WRITING AT LEAST 48 HOURS IN ADVANCE OF THE TEST.
 - TESTING SHALL BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.
 - WHEN TESTING WITH OPEN TRENCHES, CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE.
 - MAIN LINES AND SUB-MAINS SHALL BE TESTED FOR TWO HOURS AND LATERAL LINES FOR ONE HOUR.
 - IF LINES OR FITTINGS DO NOT HOLD OR MORE THAN 5 PSI IS LOST DURING TESTING, THE CONTRACTOR MUST MAKE CORRECTIONS AND RESCHEDULE TESTING.
- EXECUTION
 - ALL PRESSURIZED PLASTIC AND GALVANIZED PIPE, SPRINKLER LINES OR MAINS SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES BASED ON FINISHED GRADES. NON-PRESSURIZED LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 12\"/>

REVISIONS

PROJECT NAME MERIDIAN ROAD DRAINAGE IMPROVEMENTS
CLIENT NAME STANTEC
DATE: 12/12/2019
DRAWN BY: DLC

COWLES LANDSCAPE ARCHITECTURE (CLA) 2285 LISBETH DRIVE TALLAHASSEE, FL 32308 (850) 545-7035 www.cowlesA.com



SHEET TITLE IRRIGATION DETAIL SHEET
SHEET IR4.0