

CONSTRUCTION PLANS FOR

VILLAGE OF PARRISH WASTEWATER FORCE MAIN

6069180

PART OF SECTION 20, 29 AND 30, TOWNSHIP 33, RANGE 19,
MANATEE COUNTY, FLORIDA



MANATEE COUNTY, FLORIDA

PUBLIC WORKS DEPARTMENT

ENGINEERING SERVICES

LEGEND

- EXISTING TOPOGRAPHIC SYMBOLS
- [Square] = 4"x 4"x 3" CONCRETE MONUMENT SET "LB#043"
 - [Circle] = FOUND CONCRETE MONUMENT (AS NOTED)
 - [Circle with dot] = FOUND IRON ROD (AS NOTED)
 - [Circle with cross] = FOUND IRON PIPE (AS NOTED)
 - [Circle with triangle] = FOUND CAPPED IRON ROD (AS NOTED)
 - [Circle with square] = 5/8"x 18" IRON ROD SET "LB#043"
 - [Circle with diamond] = FOUND CHISEL SQUARE
 - [Dot] = P.K.NAIL
 - [Triangle] = TRAVERSE POINT
 - [Square with cross] = BENCH MARK
 - [Circle with cross] = GUY ANCHOR & WIRE
 - [Circle with cross] = STORM INLET
 - [Circle with cross] = SANITARY MANHOLE
 - [Circle with cross] = STORM MANHOLE
 - [Circle with cross] = VALVE BOX
 - [Circle with cross] = ELECTRIC RISER
 - [Circle with cross] = TELEPHONE RISER
 - [Circle with cross] = GAS RISER
 - [Circle with cross] = WATER RISER
 - [Circle with cross] = UTILITY POLE & LIGHT
 - [Circle with cross] = UTILITY POLE
 - [Circle with cross] = FIRE HYDRANT
 - [Triangle] = SIGN
 - [Circle with cross] = TELEVISION CABLE RISER
 - [Circle with cross] = WATER METER
 - [Circle with cross] = SEWER STUB
 - [Circle with cross] = CLEAN OUT
 - [Circle with cross] = TELEPHONE MANHOLE
 - [Circle with cross] = FP&L MANHOLE
 - [Circle with cross] = LIGHT POST
 - [Circle with cross] = ELECTRICAL TRANSFORMER PAD
 - [Circle with cross] = WELL
 - [Circle with cross] = AERIAL TARGET
 - [Circle with cross] = IRRIGATION CONTROL BOX
 - [Circle with cross] = MONITORING WELL
 - [Circle with cross] = IRRIGATION SPRINKLER

- [Dashed line] = PROPERTY LINE
- [Solid line] = EDGE OF PAVEMENT
- [Dotted line] = EDGE OF WALK
- [Dotted line] = CENTERLINE OF SWALE
- [Line with cross] = BARB WIRE FENCE
- [Line with diamond] = WOOD FENCE
- [Line with cross] = OVERHEAD UTILITY LINES
- [Line with cross] = TOP OF BANK LINE
- [Line with cross] = SECTION LINE

- | | | | |
|----------|--------------------|----------|---------------------|
| [Symbol] | = WILLOW | 00.0GB | = GRADE BREAK |
| [Symbol] | = BRAZILIAN PEPPER | 00.00CL | = CENTER LINE |
| [Symbol] | = PUNK | 00.00WS | = WATER SURFACE |
| [Symbol] | = PALM | 00.00INV | = INVERT |
| [Symbol] | = MAPLE | 00.00BC | = BACK OF CURB |
| [Symbol] | = PINE | 00.00EP | = EDGE OF PAVEMENT |
| [Symbol] | = CITRUS | 00.00HW | = HEADWALL |
| [Symbol] | = OAK | 00.00RIM | = RIM OF STRUCTURE |
| [Symbol] | = BANYON | 00.00VG | = VALLEY GUTTER |
| [Symbol] | = CHINABERRY | 00.00SW | = SIDEWALK/CONCRETE |
| [Symbol] | = MYRTLE | 00.00FF | = FINISHED FLOOR |
| [Symbol] | = UNKNOWN SPECIES | 00.00TG | = TOP OF GRATE |
| [Symbol] | = BAY | 00.00WIN | = WINDOW/WEIR |
| [Symbol] | = ELM | 00.0ES | = EDGE OF SHELL |
| [Symbol] | = CEDAR | 00.0FL | = FLOW LINE |
| [Symbol] | = AUSTRALIAN PINE | 00.0TB | = TOP OF BANK |
| [Symbol] | = FIG TREE | 00.0TS | = TOE OF SLOPE |
| [Symbol] | = ROSEWOOD | 00.0MANG | = MANGROVE |
| [Symbol] | = LOQUAT | 00.0FE | = FENCE LOCATION |
| [Symbol] | = ORNAMENTAL | 00.00EG | = SPECIAL POINT |
| | | 00.0 | = GROUND ELEVATION |

NOTE: size of trunk diameter is determined at 4.5' above ground surface and is shown adjoining the symbol in inches.

NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation.

PROPOSED SYMBOLS

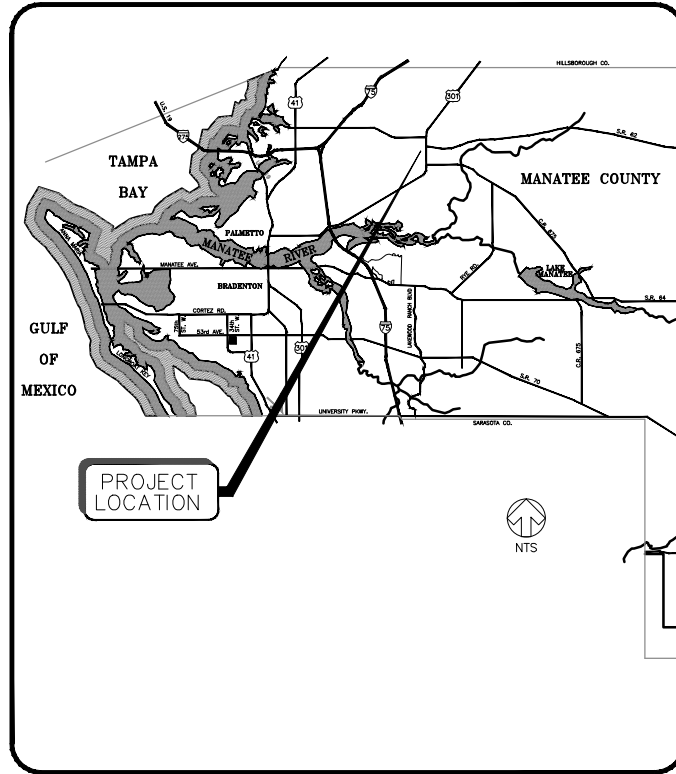
- [Symbol] AIR RELEASE VALVE, COMPLETE
- [Symbol] IN-LINE VALVE W/ BOX
- [Symbol] FIRE HYDRANT, COMPLETE
- [Symbol] BLOW-OFF
- [Symbol] PIPE PLUG
- [Symbol] WATER METER
- [Symbol] IRRIGATION METER
- [Symbol] REDUCER
- [Symbol] BACKFLOW PREVENTER/ABOVE GROUND METER
- [Symbol] SANITARY SEWER MANHOLE
- [Symbol] SANITARY SEWER LATERAL & CLEAN-OUT
- [Symbol] PUMP STATION
- [Symbol] STORM SEWER & STRUCTURE
- [Symbol] HEADWALL
- [Symbol] U-ENDWALL
- [Symbol] CONTROL STRUCTURE
- [Symbol] MITERED END/FLARED END SECTION
- [Symbol] PROPOSED ELEVATION
- [Symbol] PROPOSED PAVEMENT ELEVATION
- [Symbol] DIRECTION OF DRAINAGE FLOW

NOTE: OPEN SYMBOLS AND DASHED LINES DENOTE EXISTING FEATURES, THIN SOLID LINES DENOTE PROPOSED IMPROVEMENTS

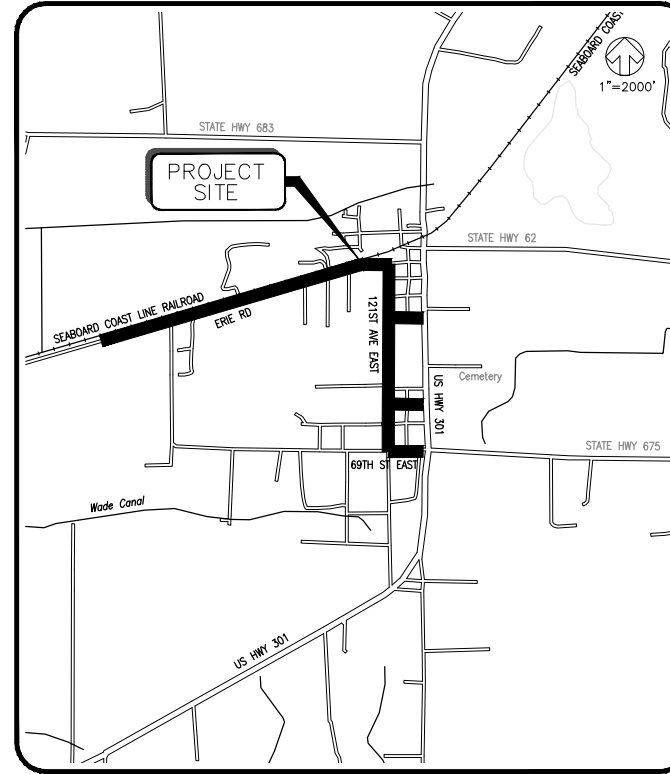
INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	KEY MAP
3	GENERAL NOTES
4-27	PLAN & PROFILE
28-29	WASTEWATER COLLECTION CONSTRUCTION DETAILS
30	BEST MANAGEMENT PRACTICES DETAILS

NO.	DATE	DESCRIPTION	BY
03/21/17		REVISE FM STEEL CASING PER RECORD DRAWINGS	SRP
08/13/15		UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	KG
06/26/13		ADD OTHER SURFACE WATERS AND SILT FENCE	SRP
07/01/10		UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	SRP/1755
01/22/09		REVISED PER MANATEE COUNTY COMMENTS DATED 05/06/08 & 01/13/09	SRP/1755



LOCATION MAP



SITE MAP

FORCE MAIN TO BE COUNTY MAINTAINED



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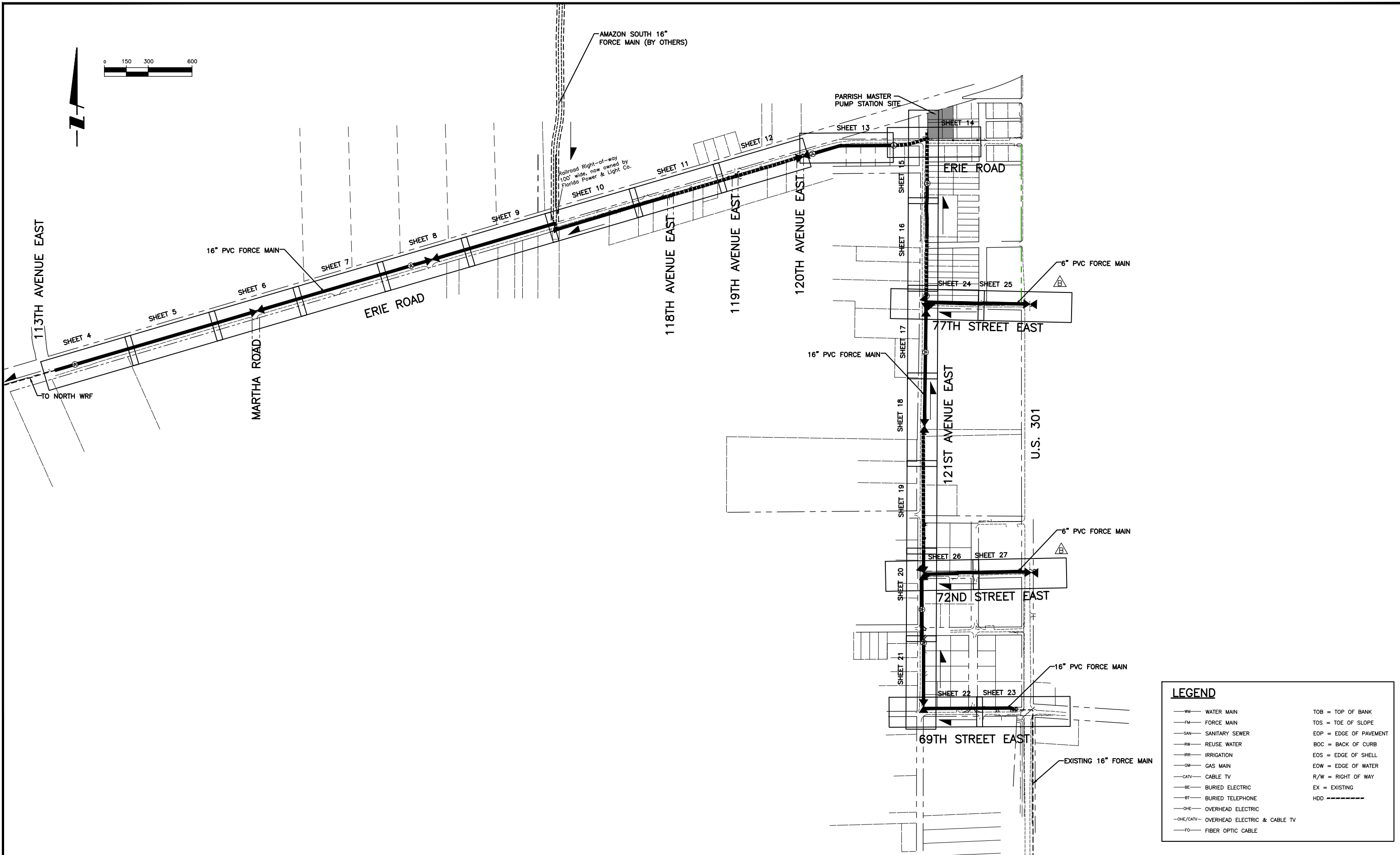


STATUS : REVISIONS

PROJECT NUMBER
177310561

DATE
AUGUST 2015

INDEX NUMBER
D-177310548001



LEGEND		
— WM —	WATER MAIN	TOB = TOP OF BANK
— FM —	FORCE MAIN	TOS = TOE OF SLOPE
— SAN —	SANITARY SEWER	EOP = EDGE OF PAVEMENT
— RW —	REUSE WATER	BOC = BACK OF CURB
— IR —	IRRIGATION	EOS = EDGE OF SHELL
— GM —	GAS MAIN	EOW = EDGE OF WATER
— CATV —	CABLE TV	R/W = RIGHT OF WAY
— BE —	BURIED ELECTRIC	EX = EXISTING
— BT —	BURIED TELEPHONE	HDD = HDD
— OHE —	OVERHEAD ELECTRIC	
— OHE/CATV —	OVERHEAD ELECTRIC & CABLE TV	
— FO —	FIBER OPTIC CABLE	

REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755		



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CLIENT: MANATEE COUNTY PUBLIC WORKS
 PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE: AUGUST 2015
 HORIZONTAL SCALE: 1"=300'
 VERTICAL SCALE: N/A

TITLE: KEY MAP
 PROJECT NUMBER: 177310561
 SHEET NUMBER: 2 OF 30

GENERAL

- 1. ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE MANATEE COUNTY PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: ANTHONY BENITEZ AND CAN BE REACHED AT (941) 708-7450 X7333.

SAFETY

- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.

ENVIRONMENTAL

- 16. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT.

RIGHT-OF-WAY

- 28. ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.

UTILITIES

- 35. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT.

39. FOR WORK BEING DONE ON EXISTING SANITARY SEWER LINES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE FLOW OF ALL SEWAGE DURING CONSTRUCTION, WHICH MAY REQUIRE BY-PASS PUMPING AND/OR PUMPER TRUCKS. THE CONTRACTOR SHALL SUBMIT A DETAILED BY-PASS PUMPING PLAN PER SECTION 02720.

RESTORATION

- 40. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.

CONSTRUCTION

- 50. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT Baffles POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.

CONTACTS

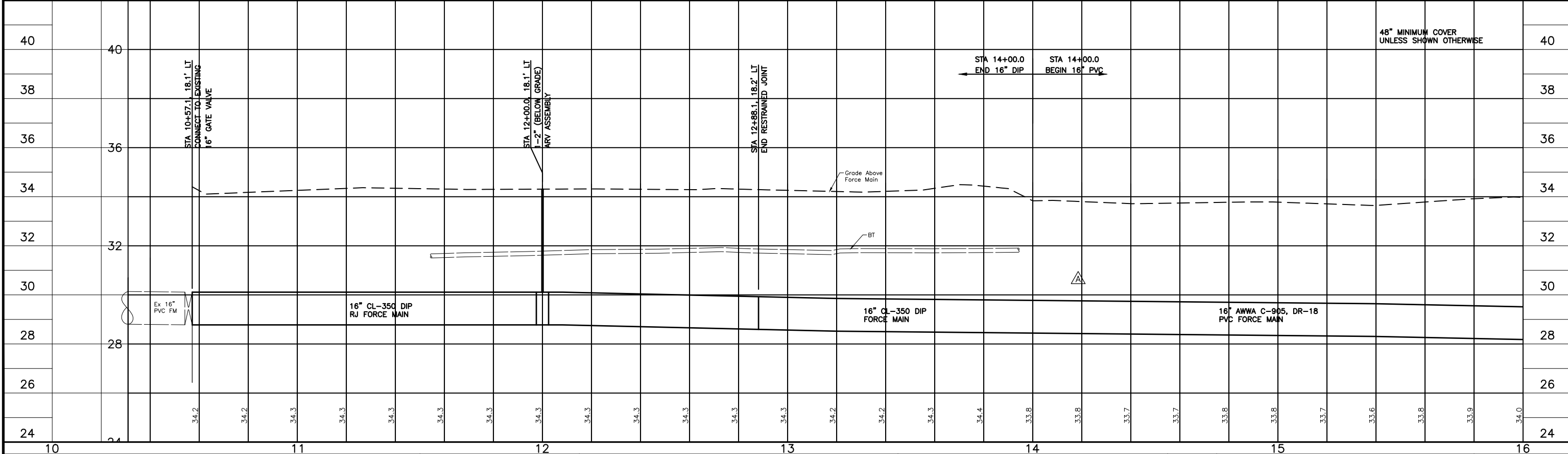
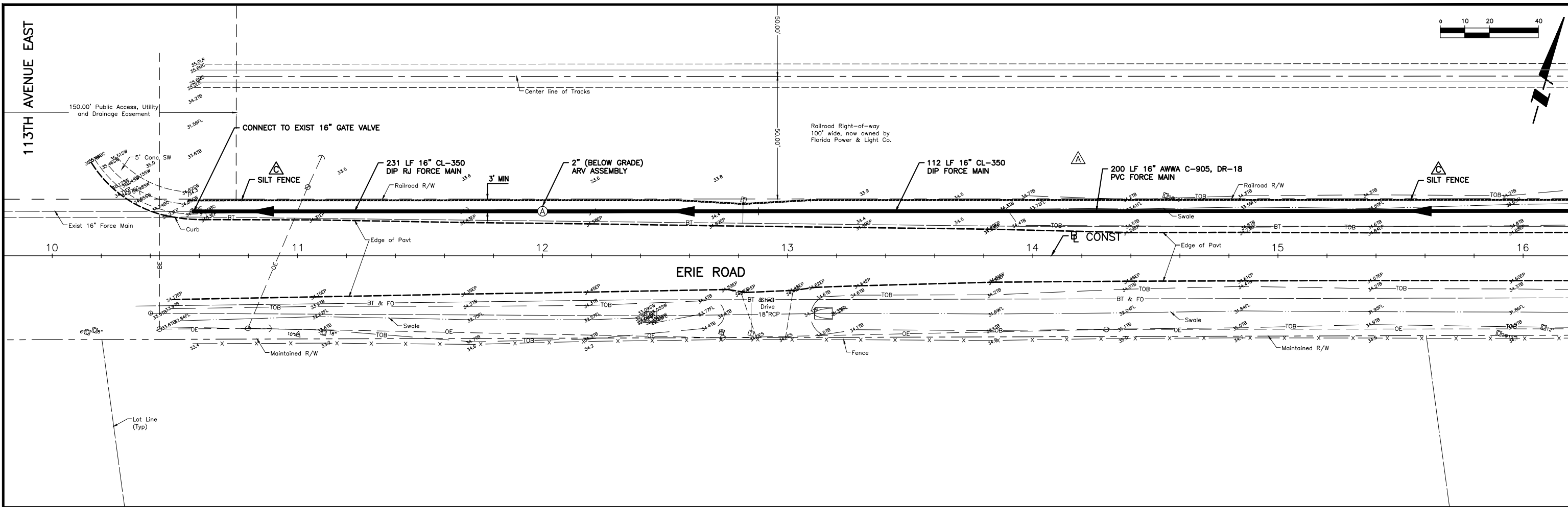
MANATEE COUNTY PUBLIC WORKS DEPT. INFRASTRUCTURE ENGINEERING SCOTT MAY, P.E. 1022 26TH AVENUE EAST BRADENTON, FL 34208 (941) 708-7450 x7650 FAX: (941) 708-7415

Table with columns: DATE, REVISION, D, UPDATE DESIGN/CODE UPDATES FOR REPERMITTING, 08/13/15, KG

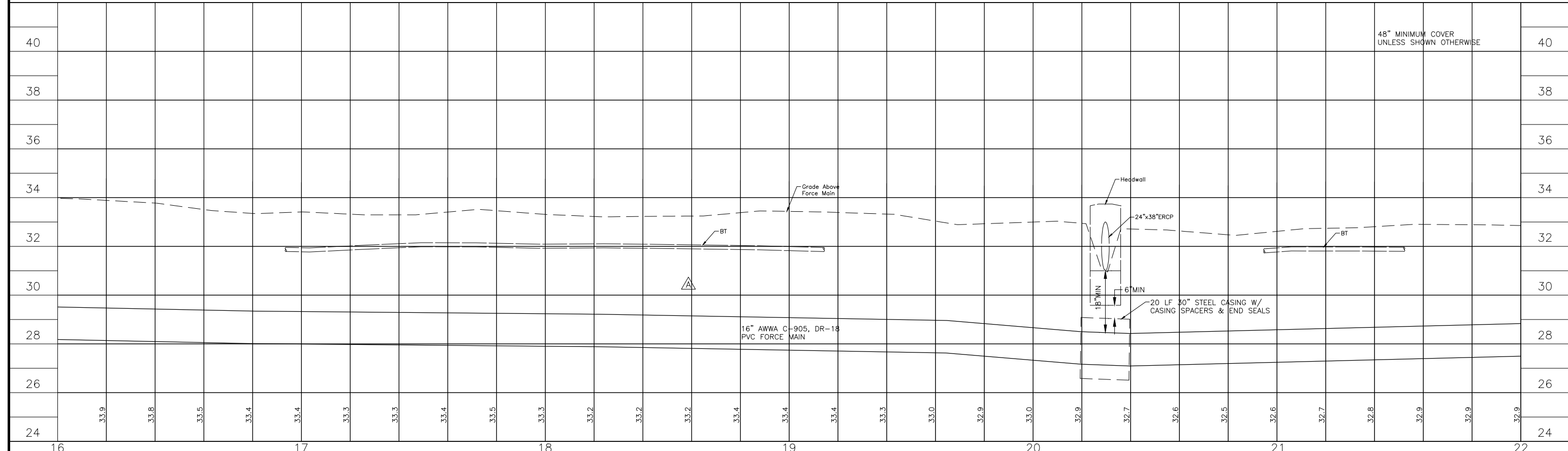
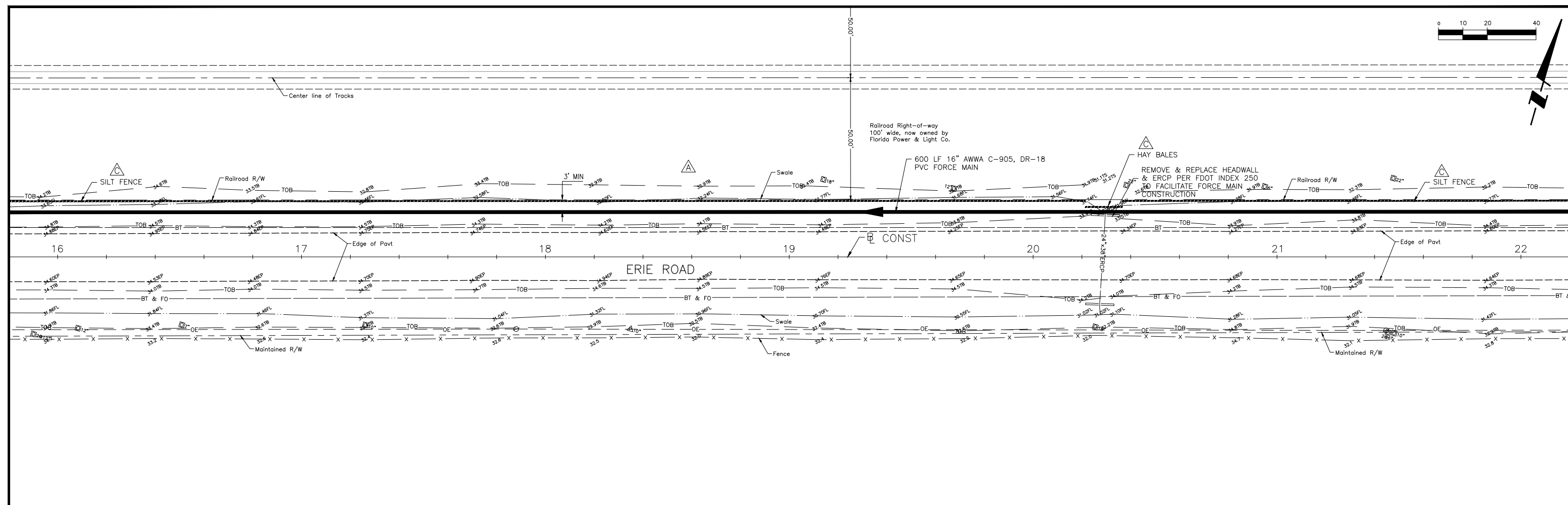
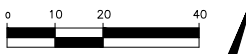


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Table with columns: CLIENT (MANATEE COUNTY PUBLIC WORKS), PROJECT (VILLAGE OF PARRISH WASTEWATER FORCE MAIN), DATE (AUGUST 2015), TITLE (GENERAL NOTES)



<table border="1"> <tr> <th>REV NO.</th> <th>REVISION</th> <th>DATE</th> <th>DRAWN BY / EMP. NO.</th> <th>CHECKED BY / EMP. NO.</th> <th>WM APPROVED BY:</th> </tr> <tr> <td>D</td> <td>UPDATE DESIGN/CODE UPDATES FOR REPERMITTING</td> <td>08/13/15</td> <td>KG</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>ADD SILT FENCE</td> <td>06/26/13</td> <td>SRP</td> <td></td> <td></td> </tr> <tr> <td>A</td> <td>REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09</td> <td>1/22/09</td> <td>SRP/1755</td> <td></td> <td></td> </tr> </table>	REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG			C	ADD SILT FENCE	06/26/13	SRP			A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755			<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td>RJH</td> <td>JULY 2015</td> </tr> <tr> <td>DRAWN BY:</td> <td>KG</td> <td>JULY 2015</td> </tr> <tr> <td>CHECKED BY:</td> <td>RJH</td> <td>JULY 2015</td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:	RJH	JULY 2015	DRAWN BY:	KG	JULY 2015	CHECKED BY:	RJH	JULY 2015	CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>CLIENT: MANATEE COUNTY PUBLIC WORKS</p> <p>PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN</p>	<p>DATE: AUGUST 2015</p> <p>HORIZONTAL SCALE: 1"=20'</p> <p>VERTICAL SCALE: 1"=2'</p> <p>SEC: 20, 29, 30</p> <p>TWP: 33</p> <p>RDE: 19</p> <p>CROSS REFERENCE FILE NO.:</p> <p>PROJECT NUMBER: 177310561</p>	<p>TITLE: PLAN AND PROFILE ERIE RD STA 10+00 TO 16+00</p> <p>ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139 INDEX NUMBER: D-177310561004 SHEET NUMBER: 4 OF 30</p>
REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																																									
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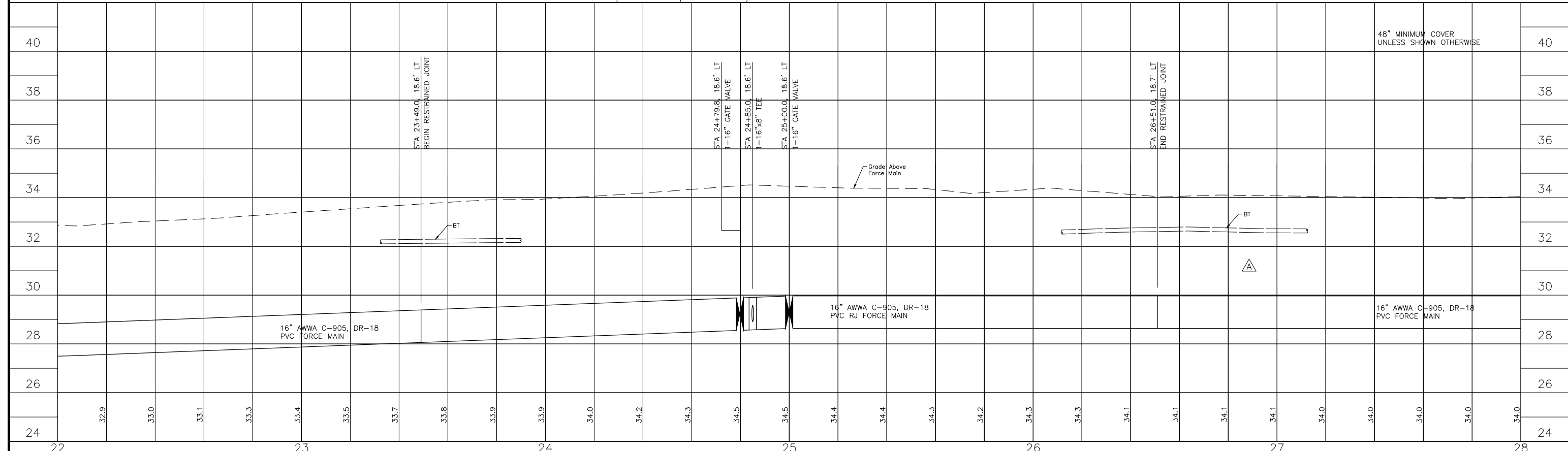
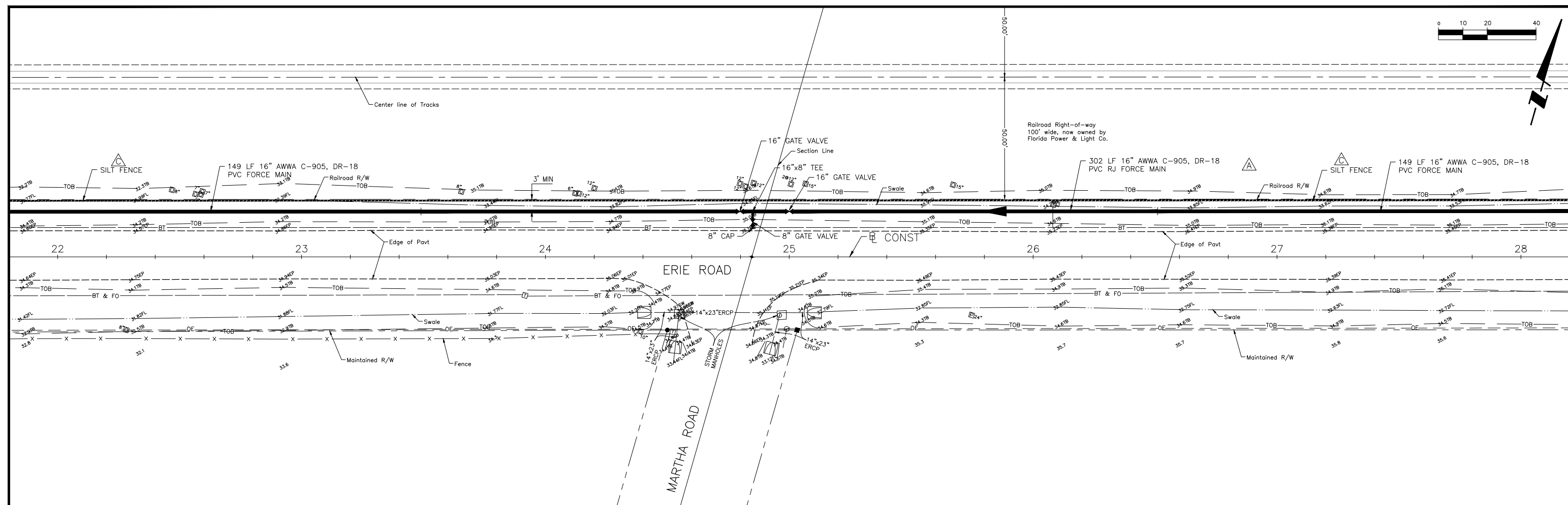
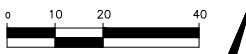


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CLIENT: MANATEE COUNTY PUBLIC WORKS PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN	DATE: AUGUST 2015 HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2' SEC: TWP: RGE: 20:29 33 19	TITLE: PLAN AND PROFILE ERIE RD STA 16+00 TO 22+00 PROJECT NUMBER: 177310561 CROSS REFERENCE FILE NO.:	ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139 INDEX NUMBER: D-177310561005 SHEET NUMBER: 5 OF 30
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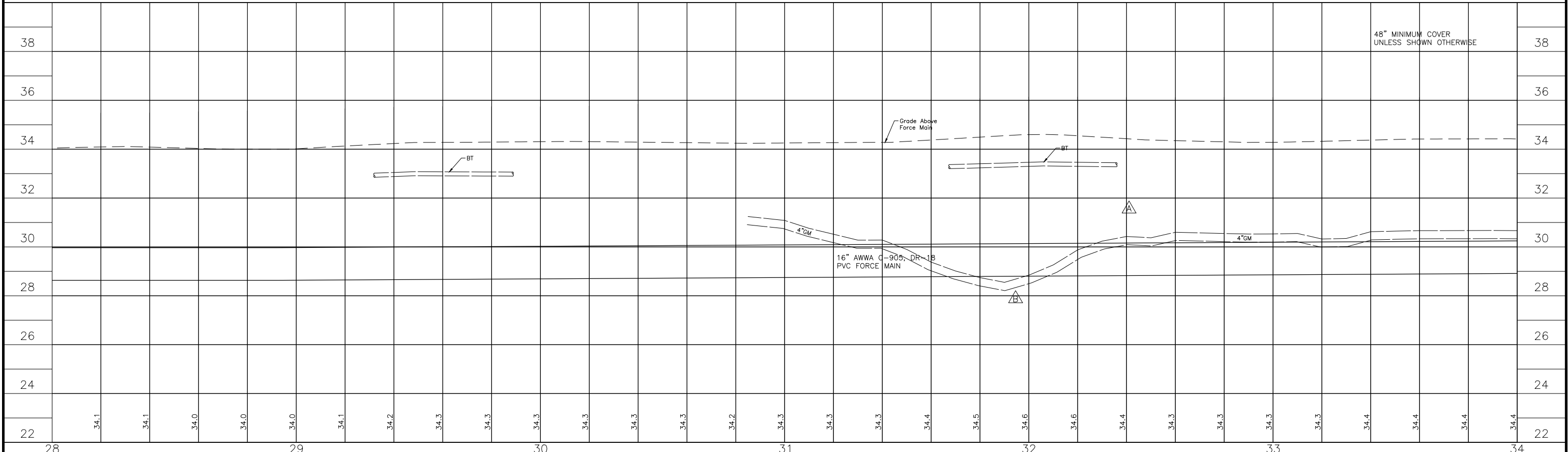
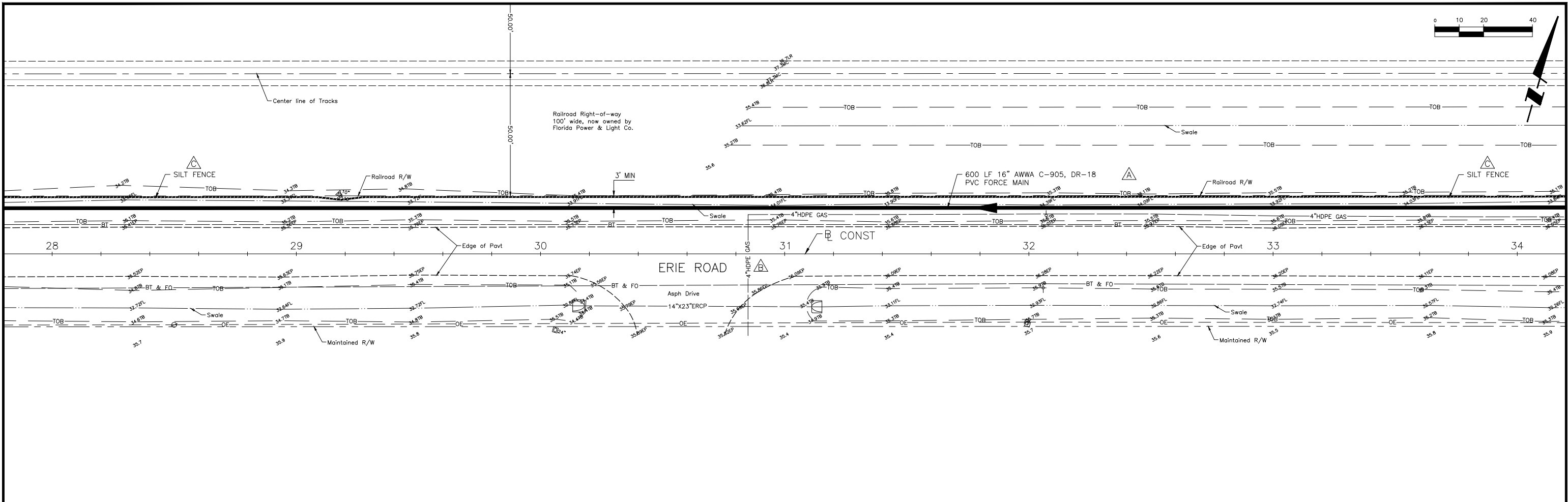
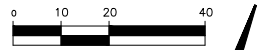


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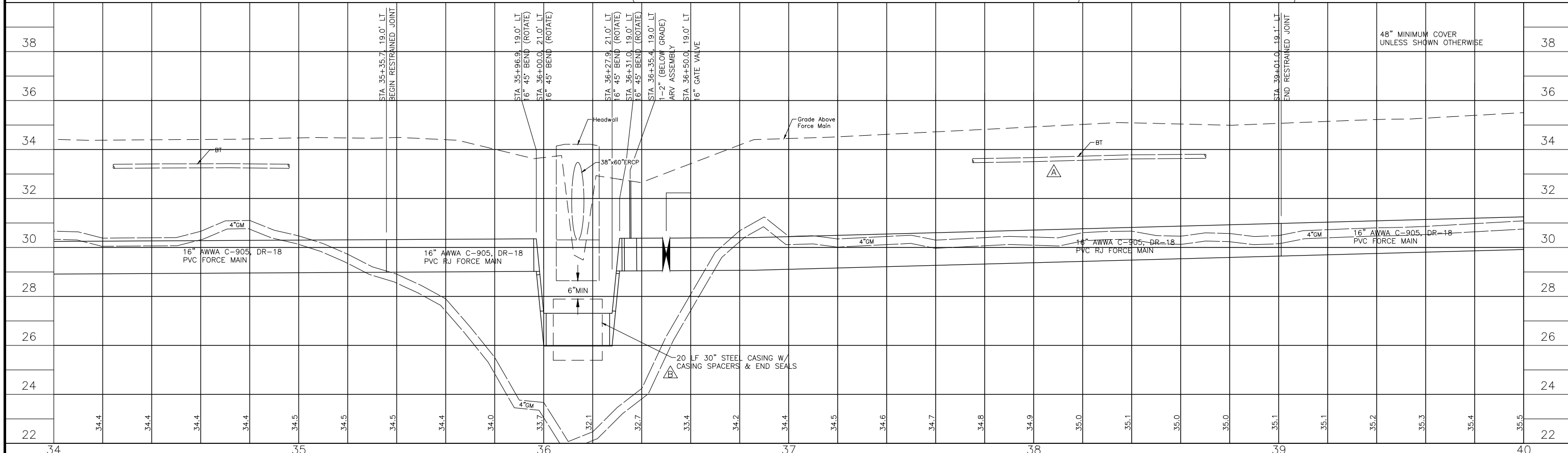
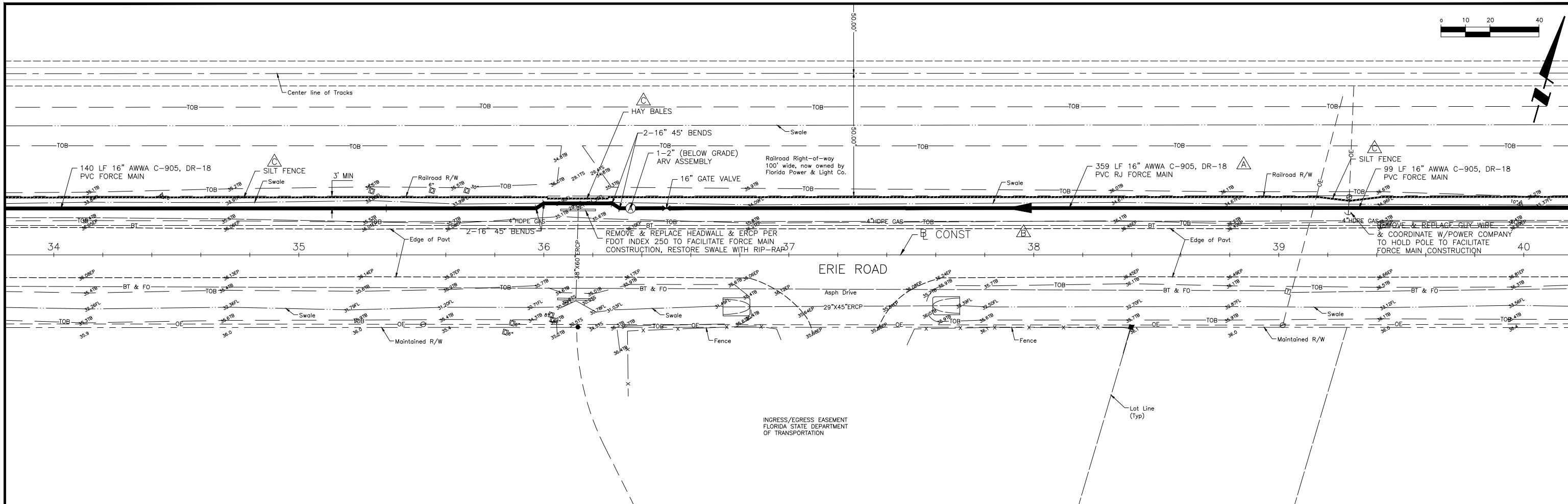
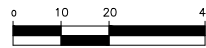


DATE	DESCRIPTION	BY	CHECKED	DATE	ACTIVITY	INITIALS/EMP. NO.	DATE
08/13/15	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	KG		JULY 2015	DESIGNED BY:	RJH	JULY 2015
06/26/13	ADD SILT FENCE	SRP		JULY 2015	DRAWN BY:	KG	JULY 2015
7/01/10	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	SRP/1755		JULY 2015	CHECKED BY:	RJH	JULY 2015
1/22/09	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	SRP/1755			CONTRACT ADMIN. BY:		
					WM APPROVED BY:		



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CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 28+00 TO 34+00	ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561007	
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:		
		SEC: TRP: RGE:	20:29 33 19	PROJECT NUMBER:	177310561	SHEET NUMBER: 7 OF 30

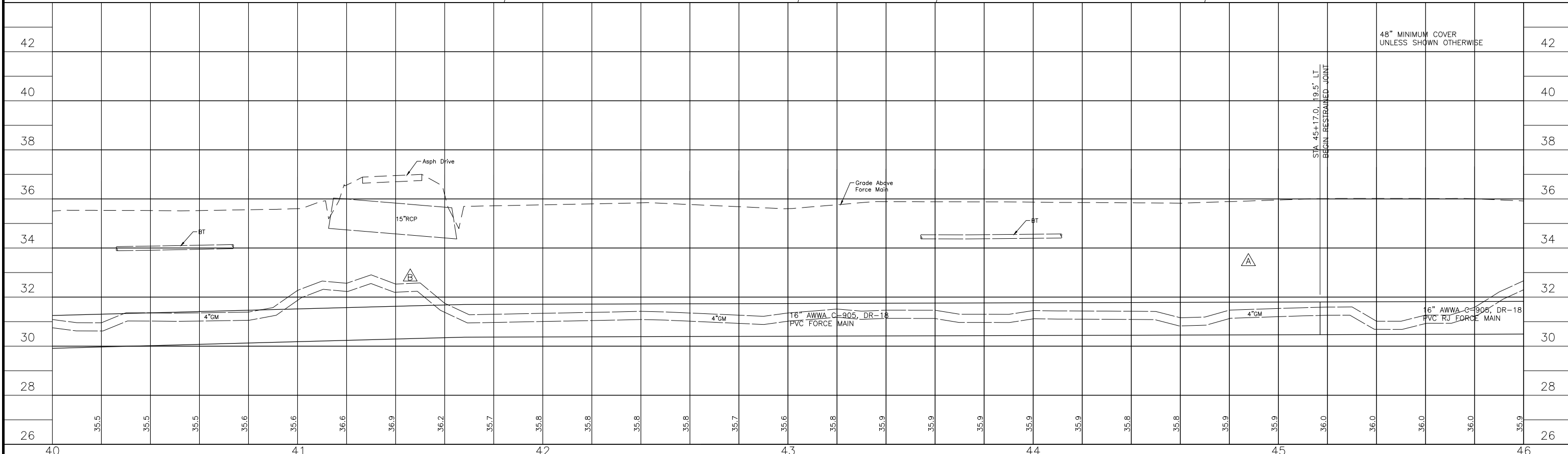
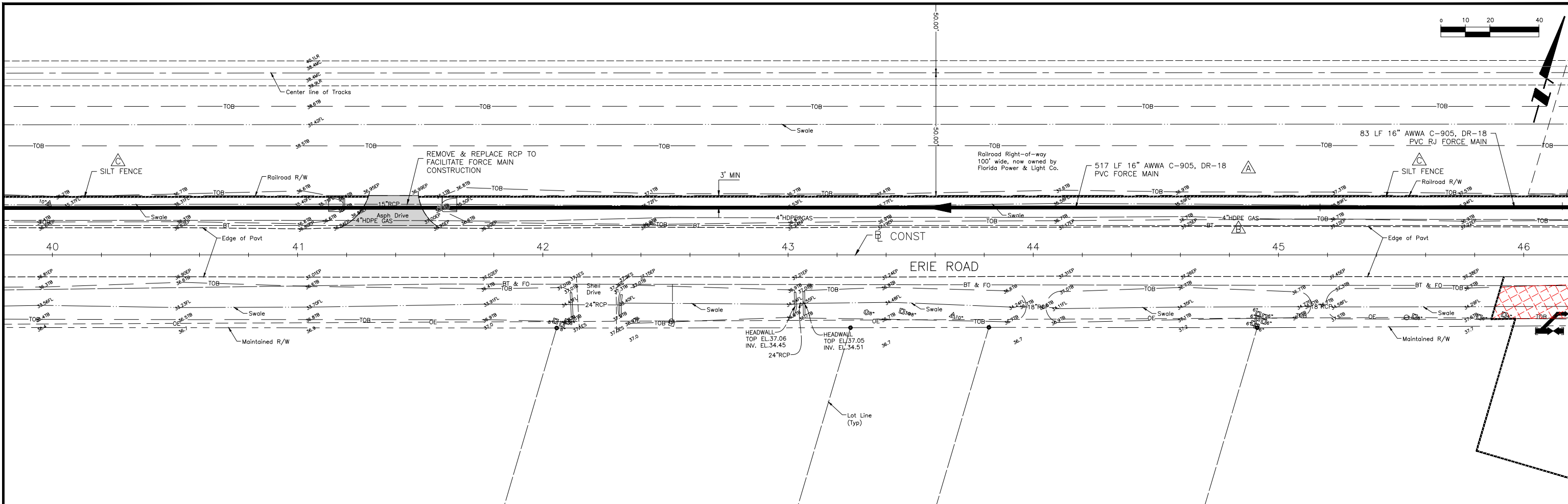


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CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 34+00 TO 40+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561008
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
		SEC. TWP. RGE:	20 29 30		SHEET NUMBER: 8 OF 30



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DESIGNED BY:	RJH	JULY 2015
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CONTRACT ADMIN. BY:		
WM APPROVED BY:		

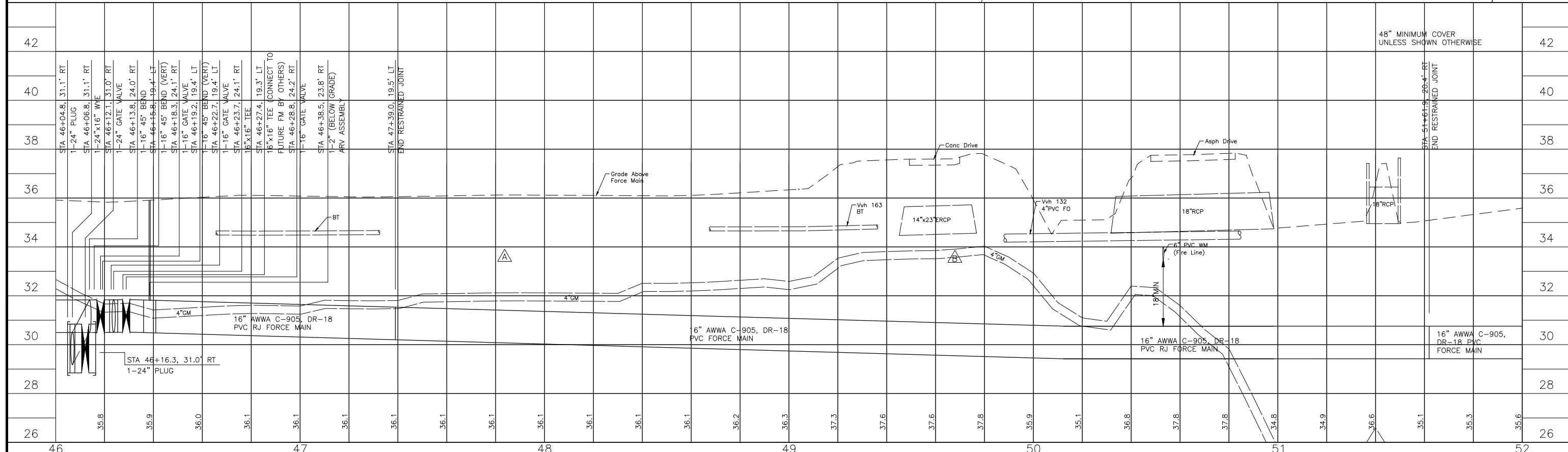
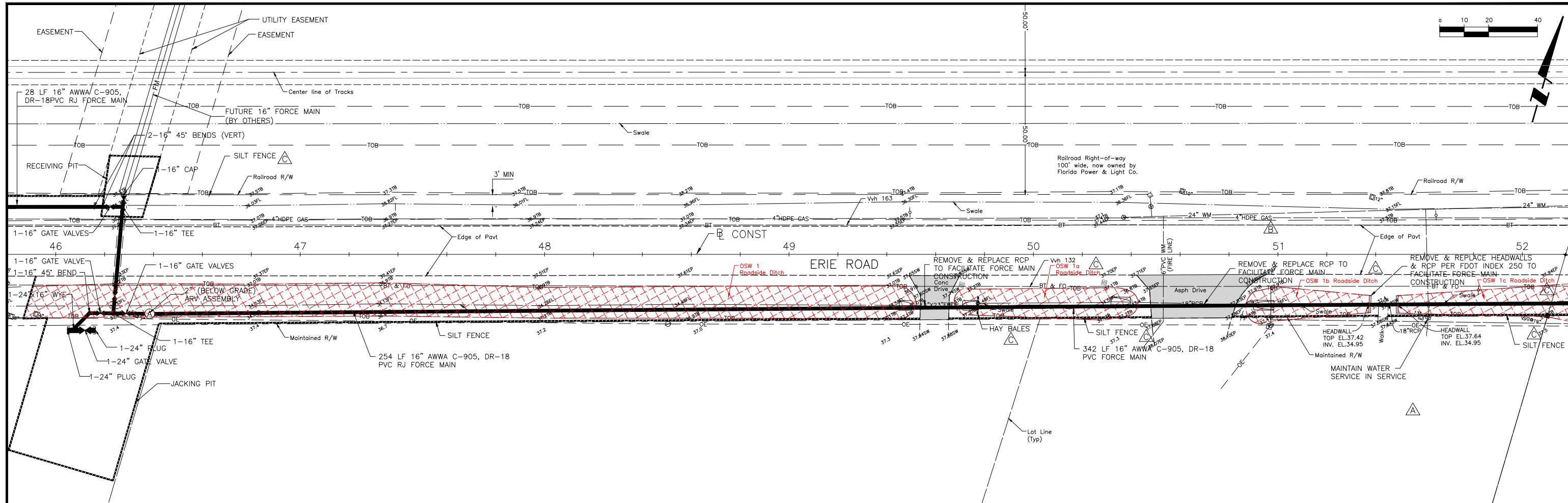


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Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 40+00 TO 46+00
HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561009
VERTICAL SCALE:	1"=2'	SHEET NUMBER:	9 OF 30
CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	177310561

ROBERT J. HALBACH, P.E.
FLORIDA LICENSE NO. 40139
INDEX NUMBER:
D-177310561009
SHEET NUMBER:
9 OF 30



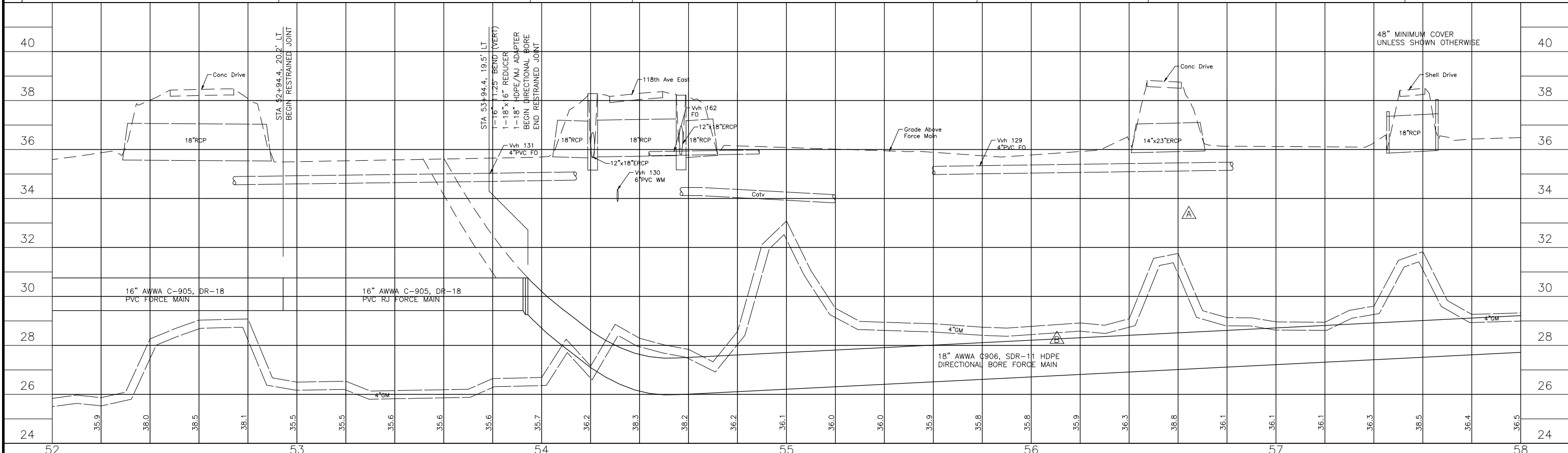
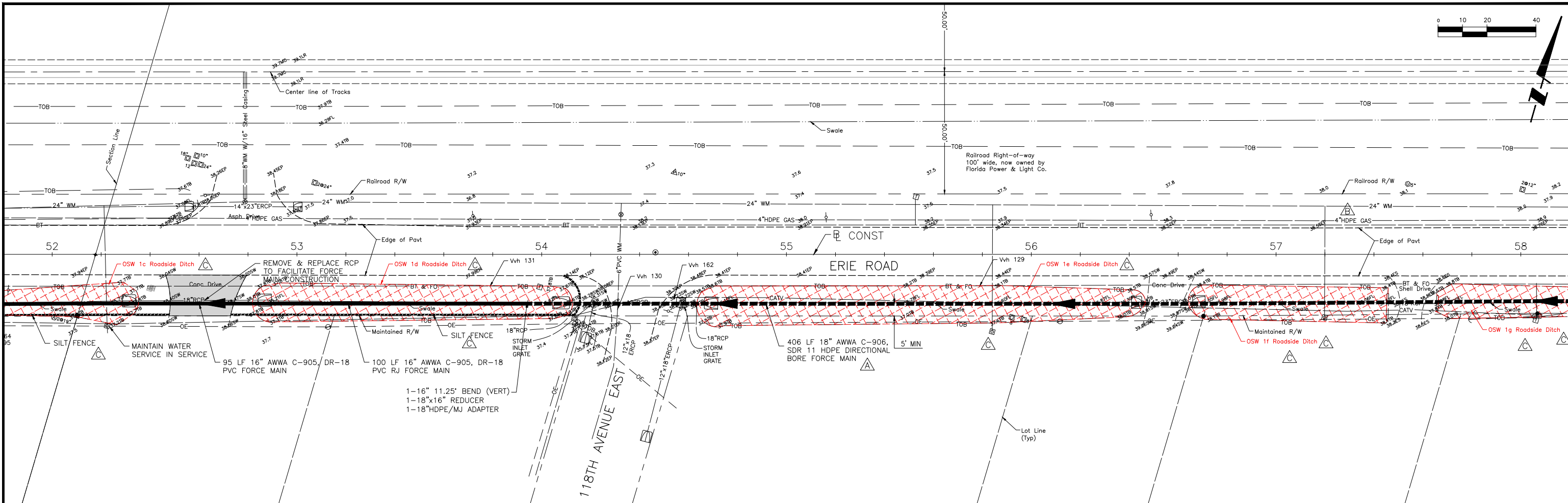
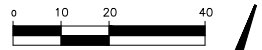
REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG		
C	ADD OTHER SURFACE WATERS, ADD SILT FENCE	6/26/13	SRP		
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



Stantec Consulting Services Inc. 5172 Station Way, Sarasota, FL 34233
 Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 46+00 TO 52+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561010
		VERTICAL SCALE:	1"=2'	SHEET NUMBER:	10 OF 30
		SEC. TWP. RGE:	2029 33 19	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561

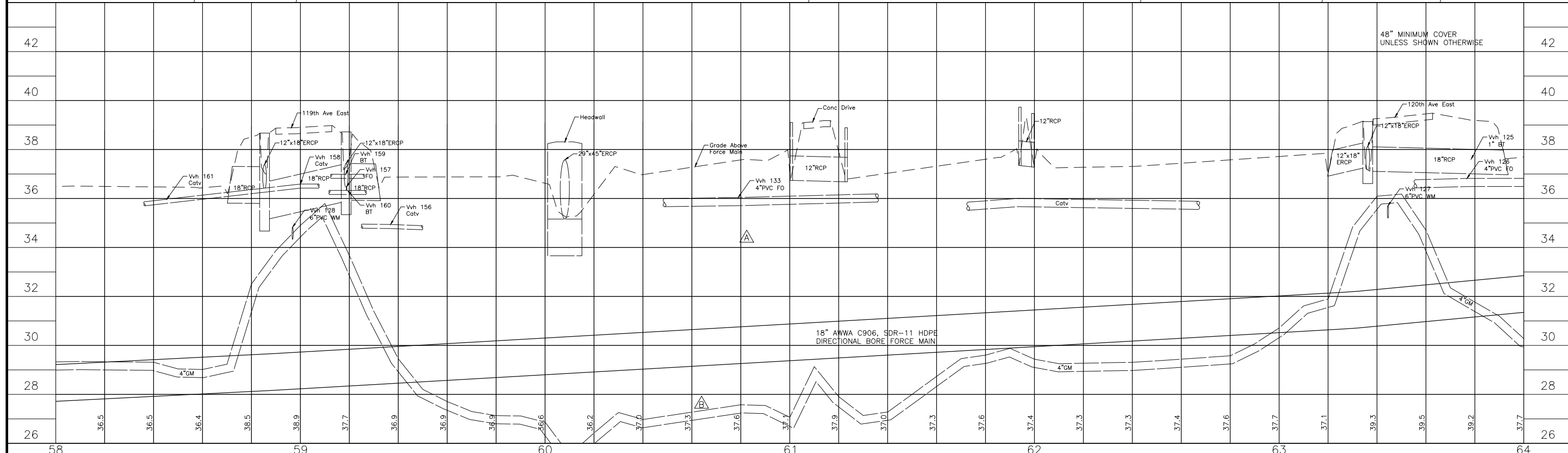
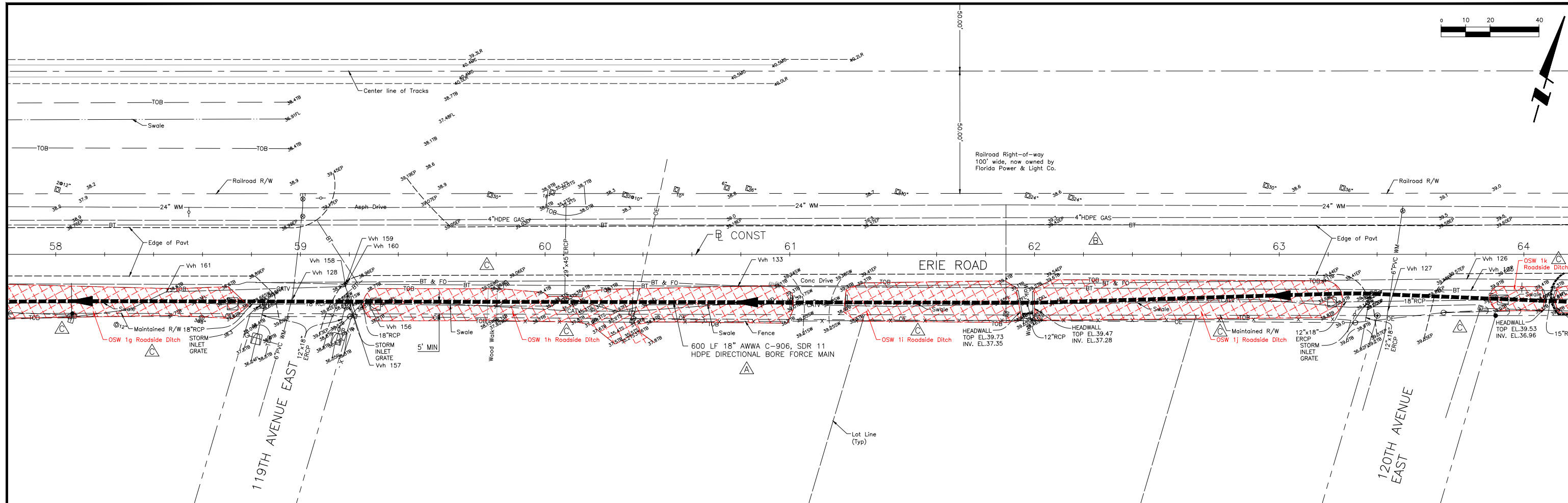
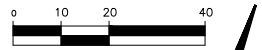


REV	DESCRIPTION	DATE	BY	CHECKED	APP. NO.	DATE	ACTIVITY	INITIALS/EMP. NO.
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG				DESIGNED BY:	RJH
C	ADD OTHER SURFACE WATERS, ADD SILT FENCE	6/26/13	SRP				DRAWN BY:	KG
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755				CHECKED BY:	RJH
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755				CONTRACT ADMIN. BY:	
							WM APPROVED BY:	



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 Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 52+00 TO 58+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561011
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
		SEC. TWP. RGE:	20 29 30	SHEET NUMBER:	11 OF 30

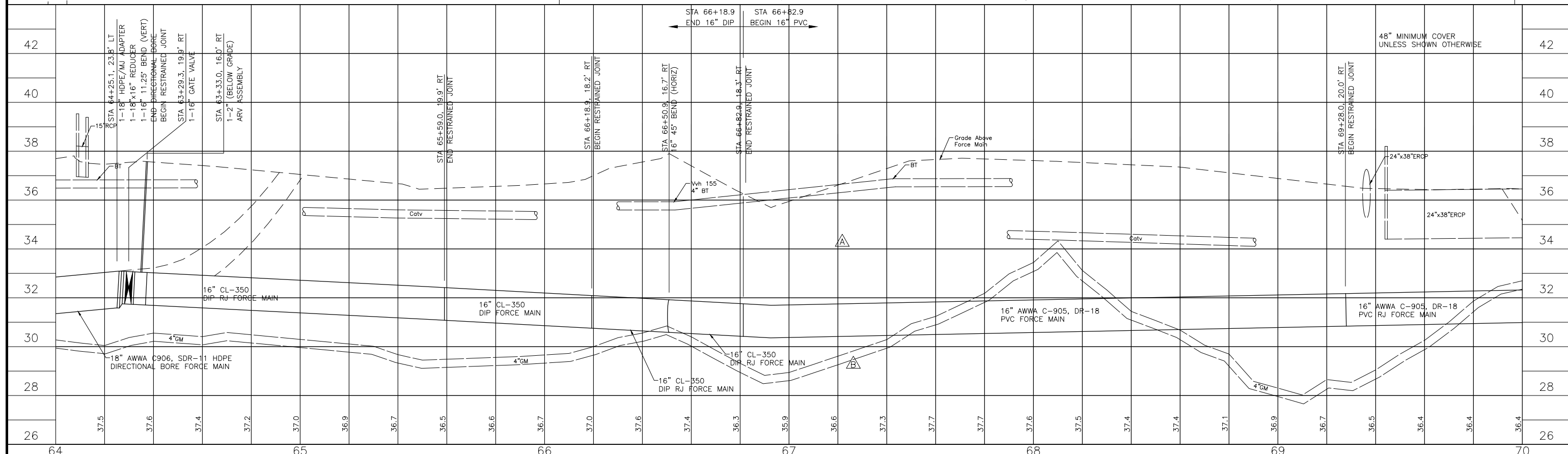
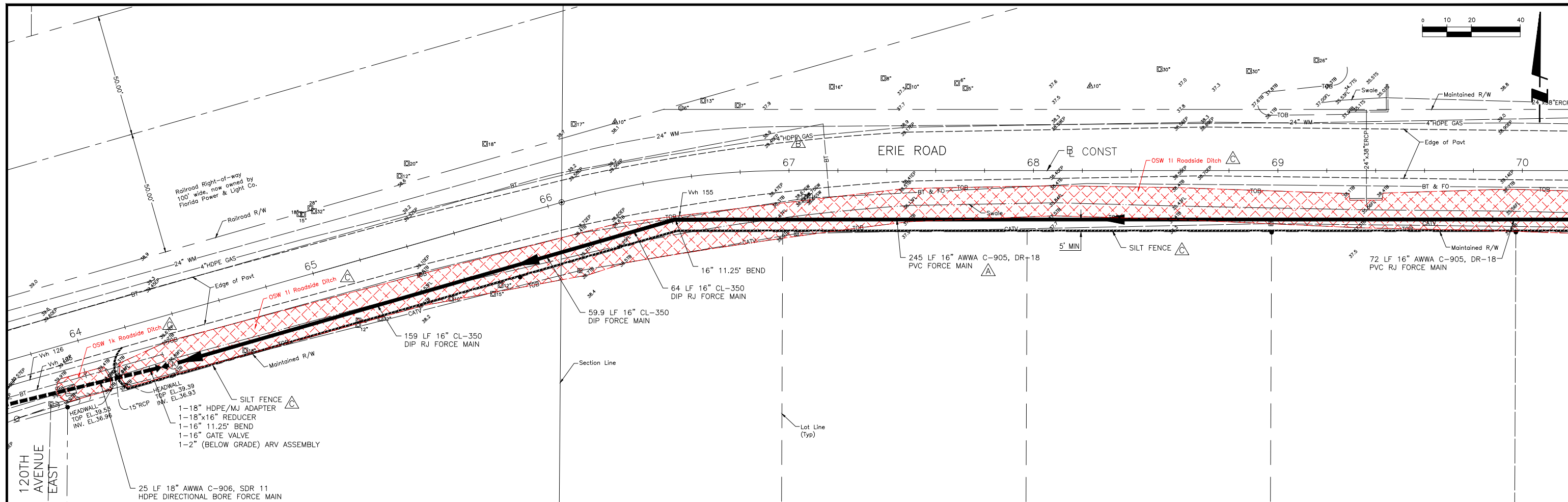


REV NO.	REVISION	DATE	DRAWN BY / E.M.P. NO.	CHECKED BY / E.M.P. NO.	ACTIVITY	INITIALS/EMP. NO.	DATE
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG			RJH	JULY 2015
C	ADD OTHER SURFACE WATERS, ADD SILT FENCE	6/26/13	SRP			KG	JULY 2015
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755			RJH	JULY 2015
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755				



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CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 58+00 TO 64+00	ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561012	
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:	SHEET NUMBER:
		SEC. TWP. RGE:	20 29 30 33 19		177310561	12 OF 30



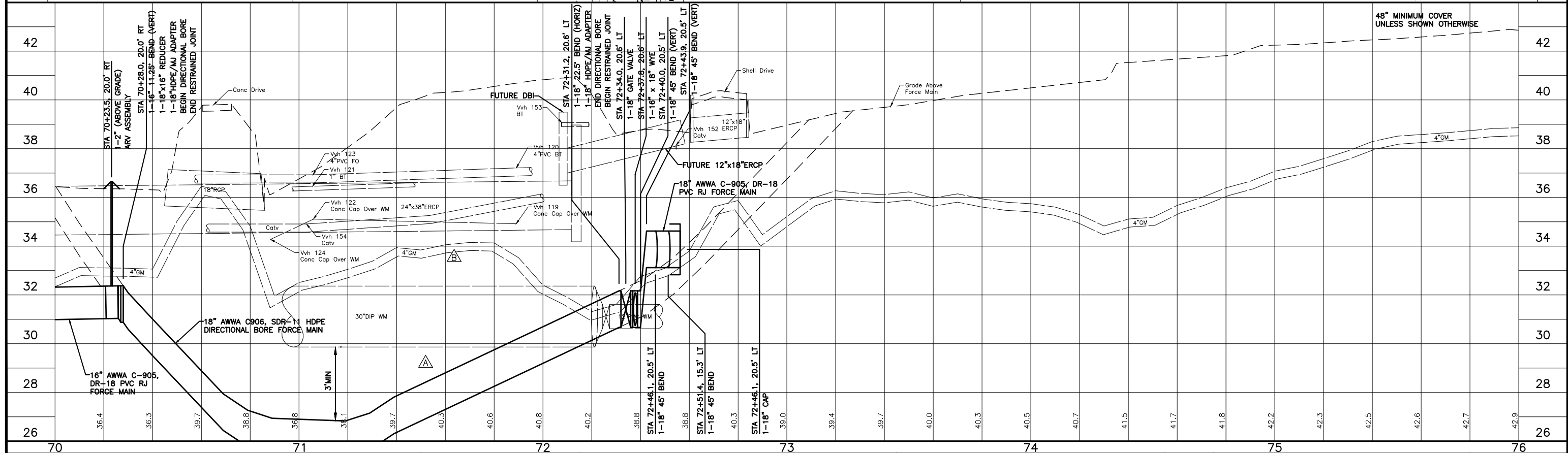
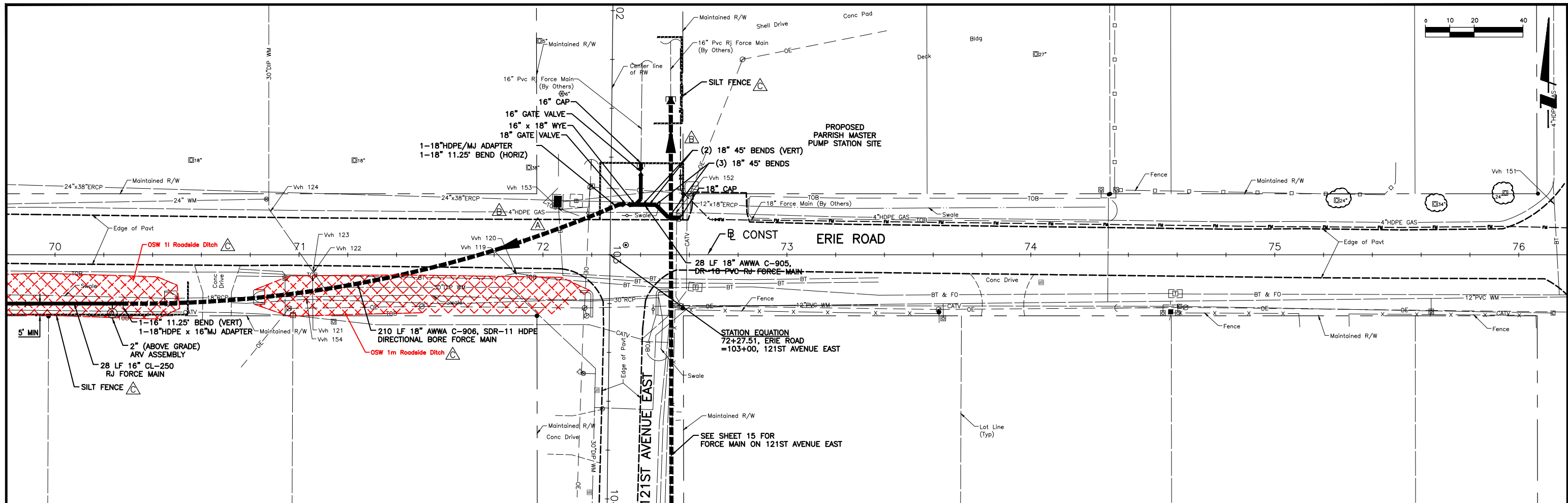
REV NO.	REVISION	DATE	DRAWN BY / E.P. NO.	CHECKED BY / E.P. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG		
C	ADD OTHER SURFACE WATERS, ADD SILT FENCE	6/26/13	SRP		
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	07/01/10	SRP/1755		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



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 Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE ERIE RD STA 64+00 TO 70+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561013
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
		SEC: TWP: RGE:	20:29 33 19	SHEET NUMBER:	13 OF 30

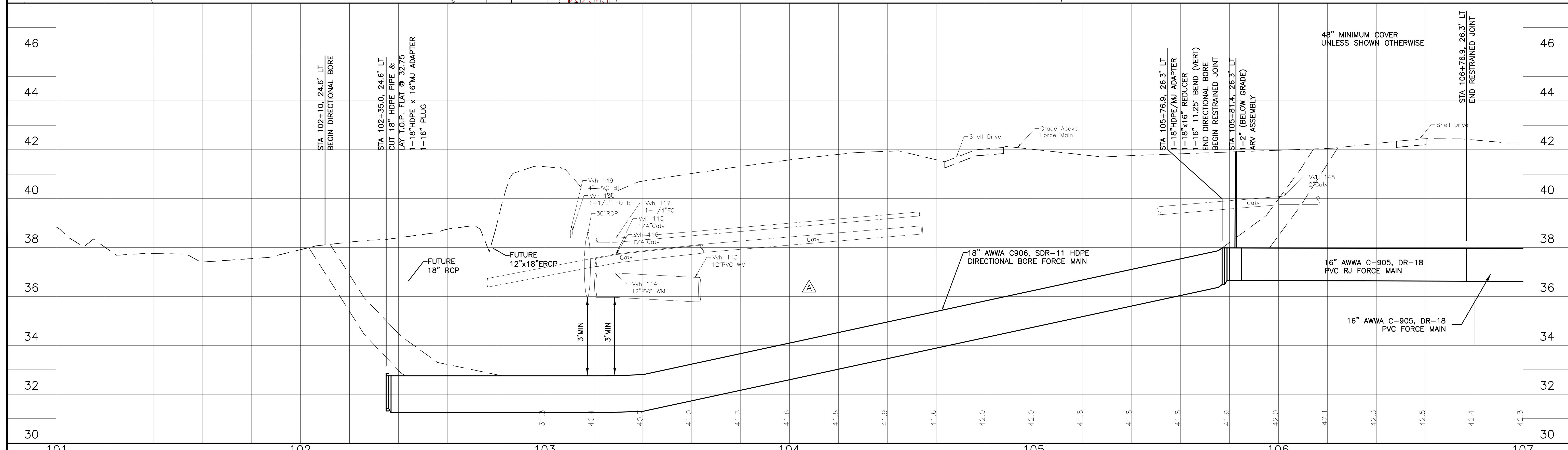
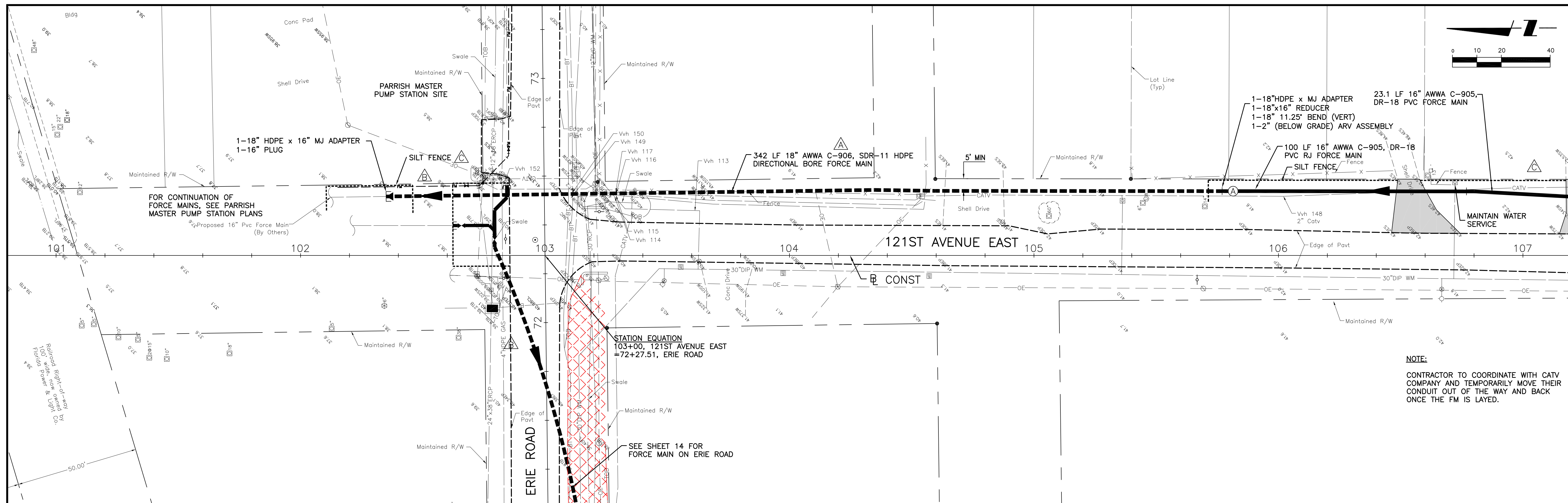


REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG			DESIGNED BY:	RJH	JULY 2015
C	ADD OTHER SURFACE WATERS, ADD SILT FENCE	6/26/13	SRP			DRAWN BY:	KG	JULY 2015
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755			CHECKED BY:	RJH	JULY 2015
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755			CONTRACT ADMIN. BY:		

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'		ERIE RD
		VERTICAL SCALE:	1"=2'		STA 70+00 TO 76+00
		INDEX NUMBER:	D-177310561014		
		CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	177310561
				SHEET NUMBER:	14 OF 30

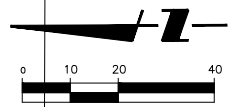
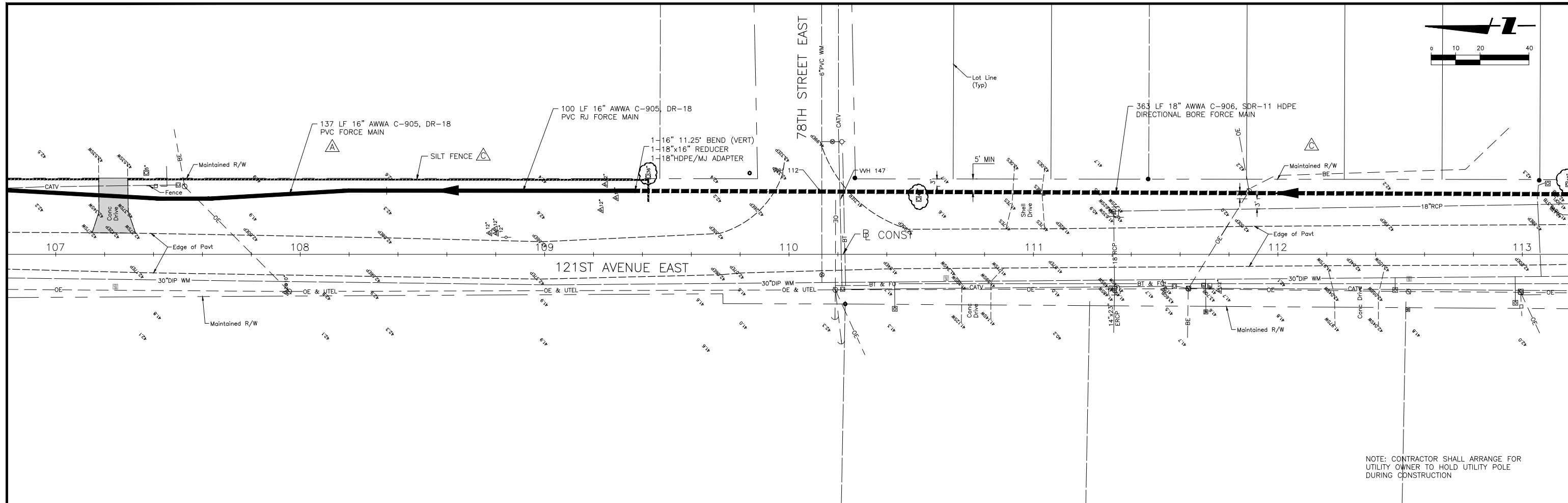


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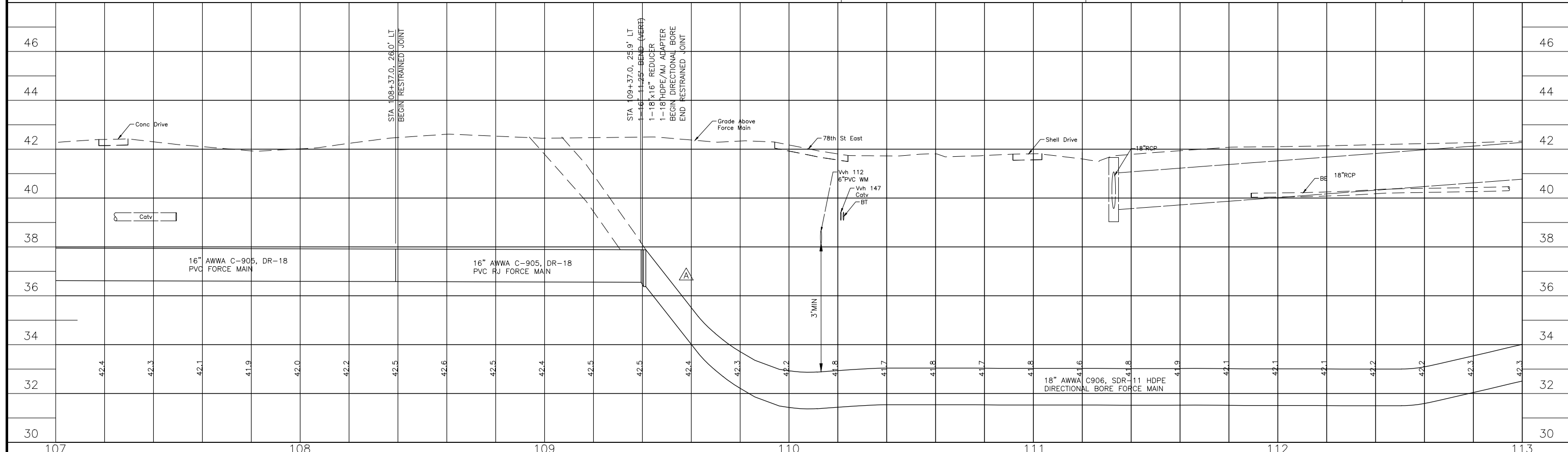


DATE	REVISION	BY / EMP. NO.	CHECKED BY / EMP. NO.	ACTIVITY	INITIALS/EMP. NO.	DATE
08/13/15	D	KG		UPDATE DESIGN/CODE UPDATES FOR REPERMITTING		
6/26/13	C	SRP		ADD SILT FENCE		
7/01/10	B	SRP/1755		UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS		
1/22/09	A	SRP/1755		REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09		

<p>Stantec Consulting Services Inc. • 5172 Station Way, Sarasota, FL 34233 Tel. 941.366.1922 • Fax. 941.225.6182 • Florida Certificate No. 27013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS</p> <p>PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN</p>	<p>DATE: AUGUST 2015</p> <p>HORIZONTAL SCALE: 1"=20'</p> <p>VERTICAL SCALE: 1"=2'</p> <p>CROSS REFERENCE FILE NO.: PROJECT NUMBER: 177310561</p>	<p>TITLE: PLAN AND PROFILE 121ST AVENUE EAST STA 103+00 TO 107+00</p> <p>ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139</p> <p>INDEX NUMBER: D-177310561015</p> <p>SHEET NUMBER: 15 OF 30</p>
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NOTE: CONTRACTOR SHALL ARRANGE FOR UTILITY OWNER TO HOLD UTILITY POLE DURING CONSTRUCTION



DATE	BY	DESCRIPTION
08/13/15	KG	UPDATE DESIGN/CODE UPDATES FOR PERMITTING
6/26/13	SRP	ADD SILT FENCE
1/22/09	SRP/1755	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

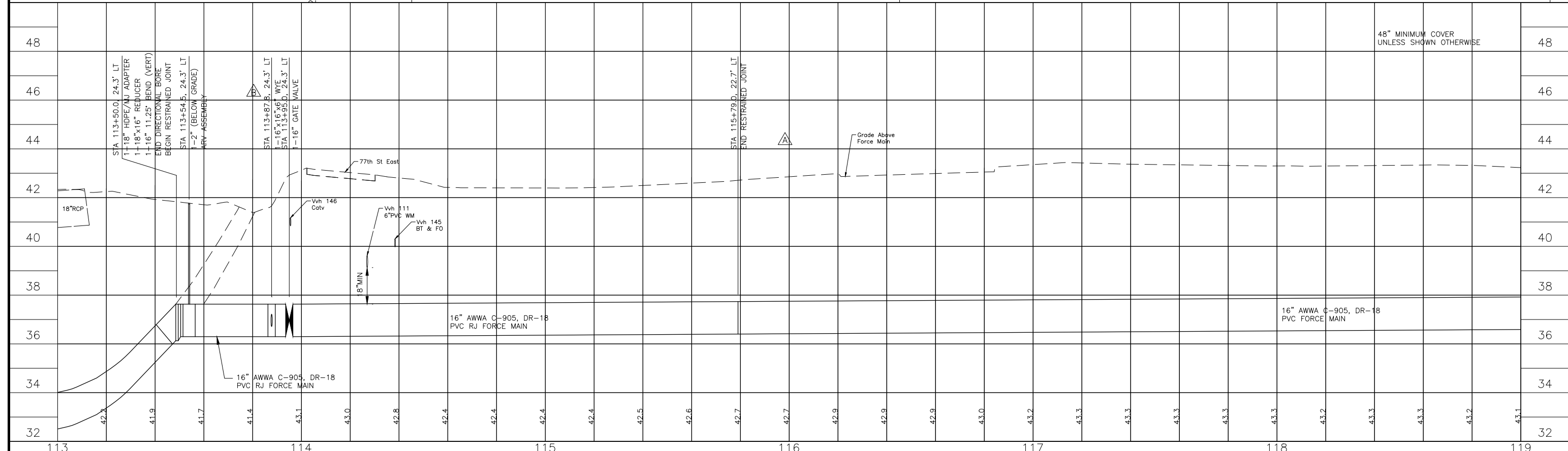
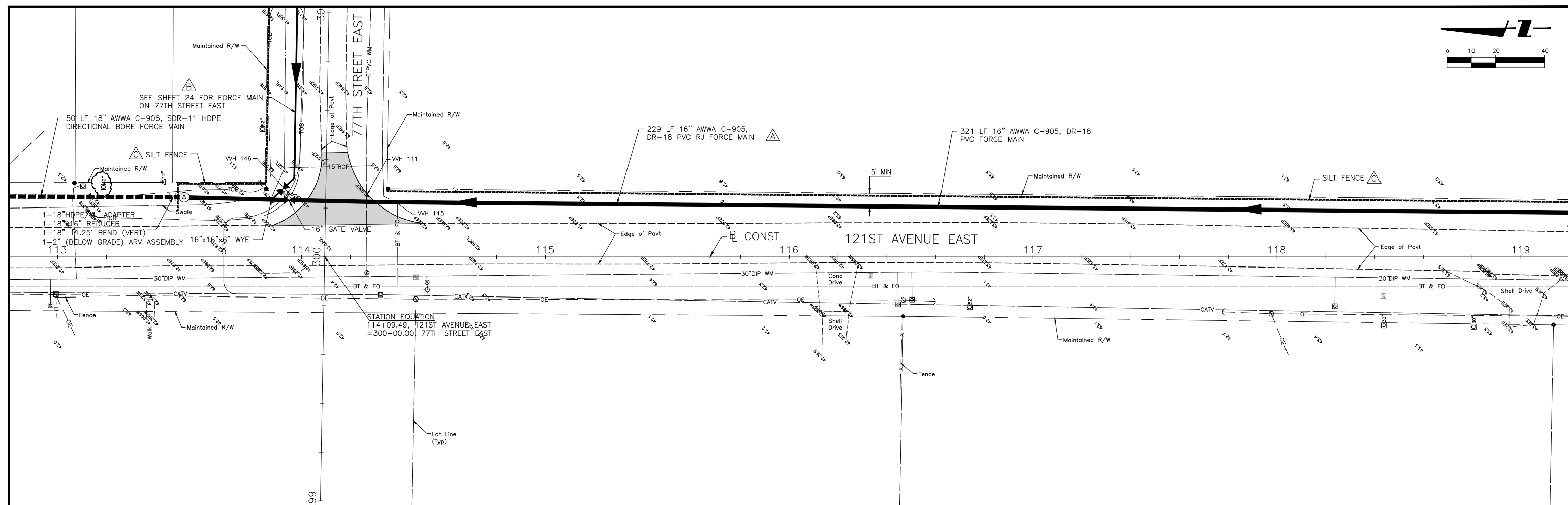
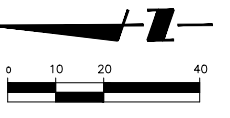


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CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 107+00 TO 113+00
HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561016
VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	
SEC. TWP. RGE:	20 29 33 19	PROJECT NUMBER:	177310561
		SHEET NUMBER:	16 OF 30

ROBERT J. HALBACH, P.E.
FLORIDA LICENSE NO. 40139
INDEX NUMBER:
D-177310561016
SHEET NUMBER:
16 OF 30

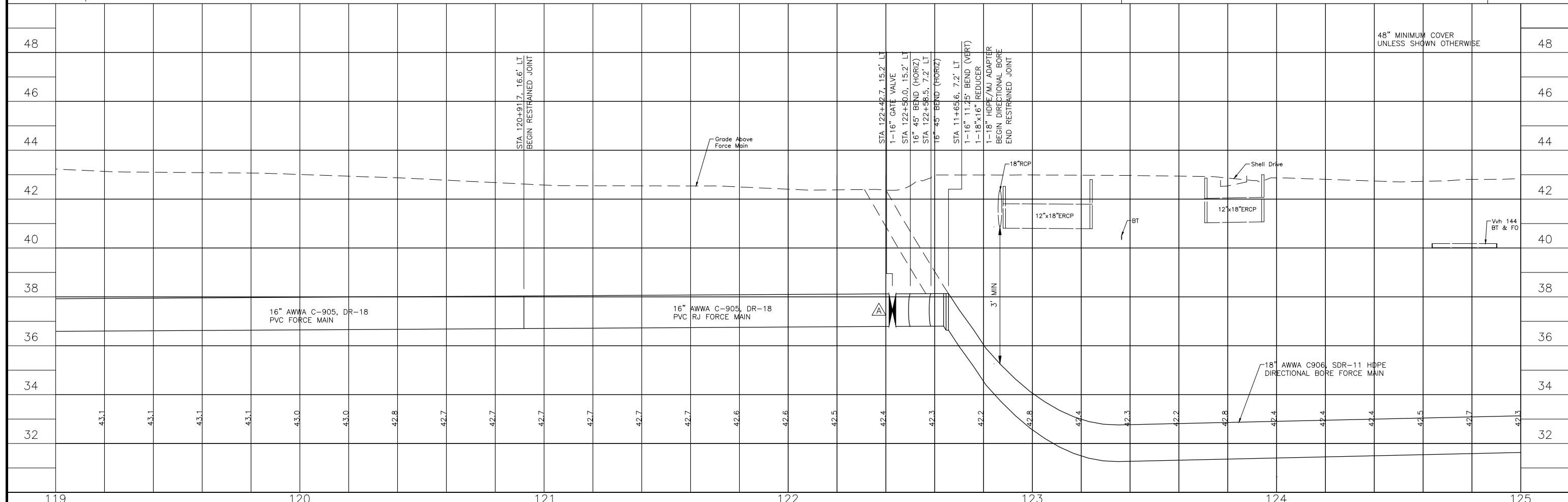
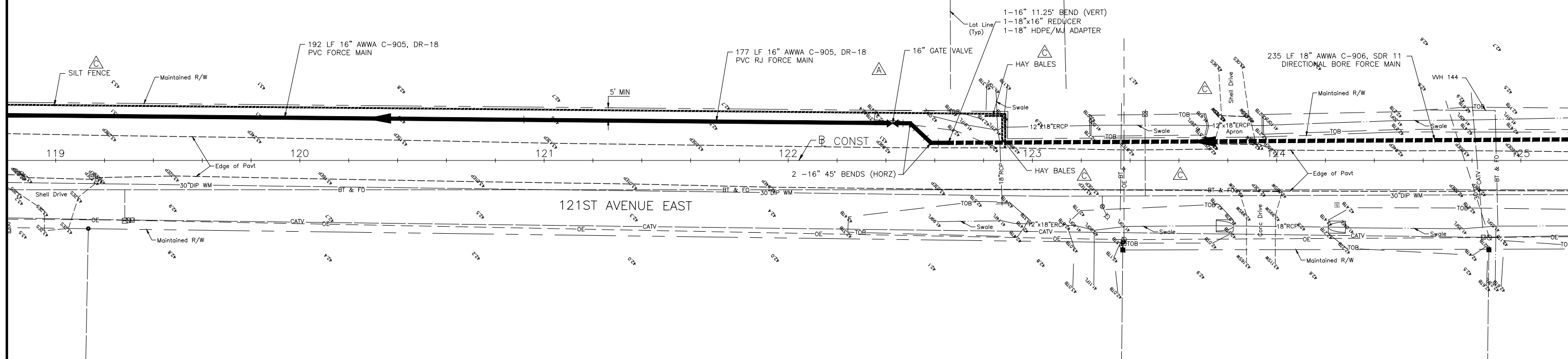
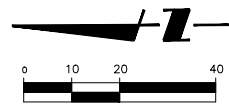


DATE	DESCRIPTION	BY	CHECKED BY	DATE
08/13/15	UP DATE DESIGN/CODE UPDATES FOR PERMITTING	KG		
6/26/13	ADD SILT FENCE	SRP		
7/01/10	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	SRP/1755		
1/22/09	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	SRP/1755		



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Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 113+00 TO 119+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561017
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
		SEC. TWP. RGE:	20 29 30		SHEET NUMBER: 17 OF 30



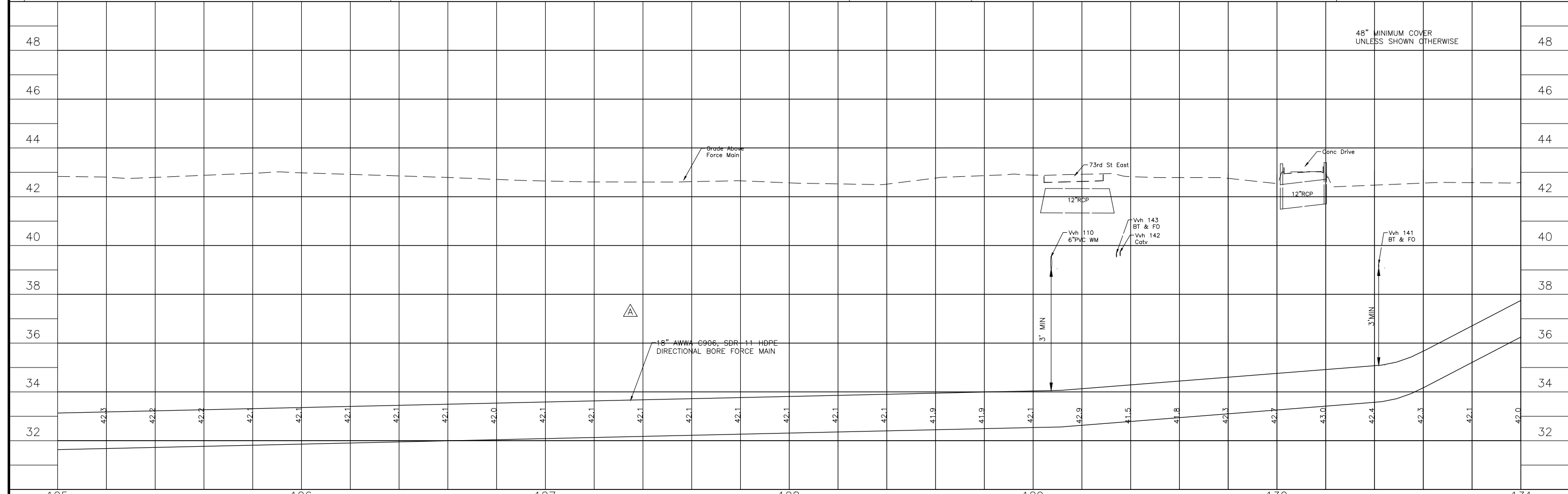
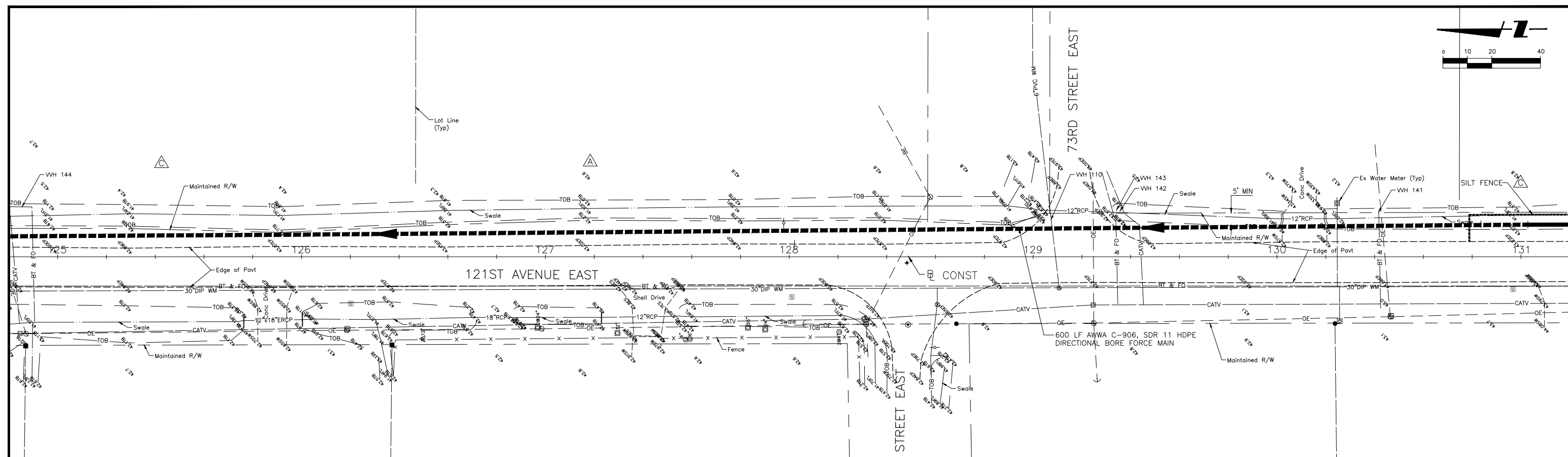
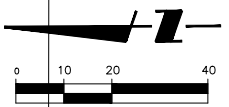
DATE	REVISION	BY	DESCRIPTION
08/13/15	D	KG	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING
6/26/13	C	SRP	ADD SILT FENCE
1/22/09	A	SRP/1755	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 119+00 TO 125+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561018
		VERTICAL SCALE:	1"=2'	SHEET NUMBER:	18 OF 30
		SEC:	TWP: RGE:	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
		20.29	33 19		177310561



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DATE	BY	DESCRIPTION
08/13/15	KG	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING
6/26/13	SRP	ADD SILT FENCE
1/22/09	SRP/1755	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

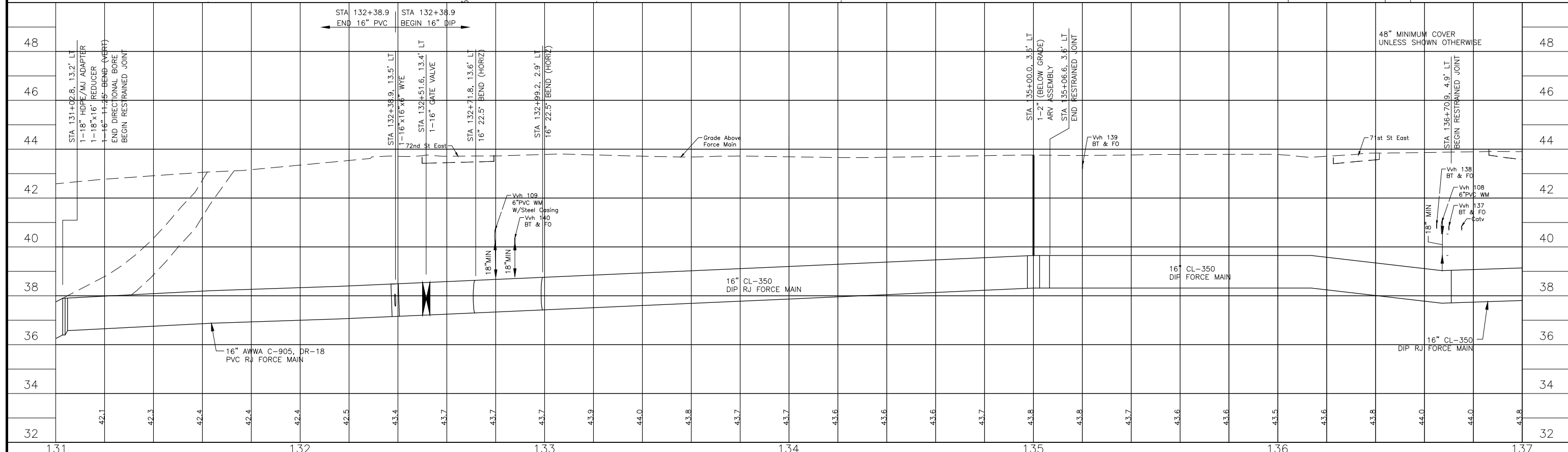
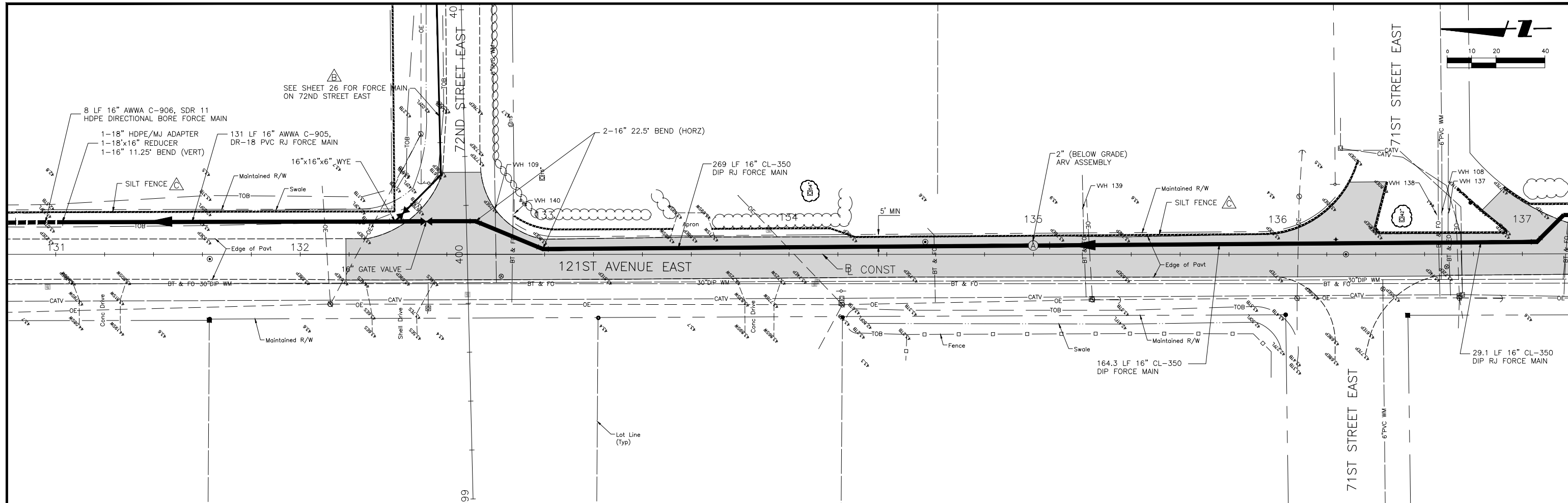


Stantec Consulting Services Inc. 5172 Station Way, Sarasota, FL 34233
 Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 125+00 TO 131+00
HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561019
VERTICAL SCALE:	1"=2'	SHEET NUMBER:	19 OF 30
CROSS REFERENCE FILE NO.:		PROJECT NUMBER:	177310561

ROBERT J. HALBACH, P.E.
 FLORIDA LICENSE NO. 40139
 INDEX NUMBER:
 D-177310561019
 SHEET NUMBER:
 19 OF 30

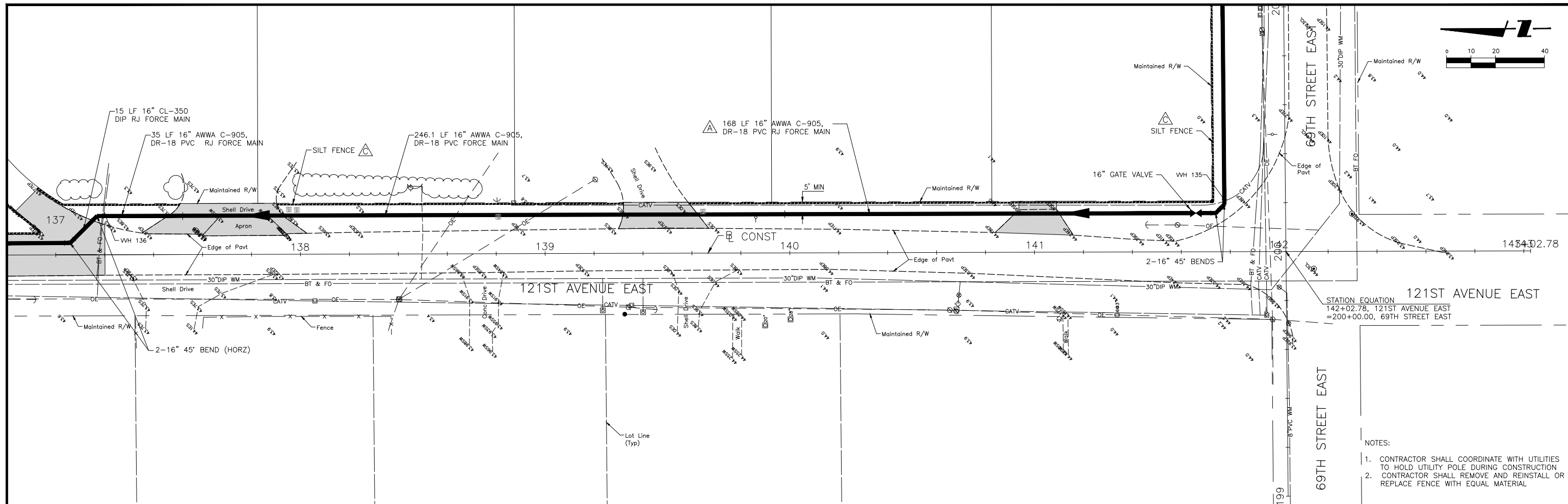


REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG			DESIGNED BY:	RJH	JULY 2015
C	ADD SILT FENCE	6/26/13	SRP			DRAWN BY:	KG	JULY 2015
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755			CHECKED BY:	RJH	JULY 2015
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755			CONTRACT ADMIN. BY:		

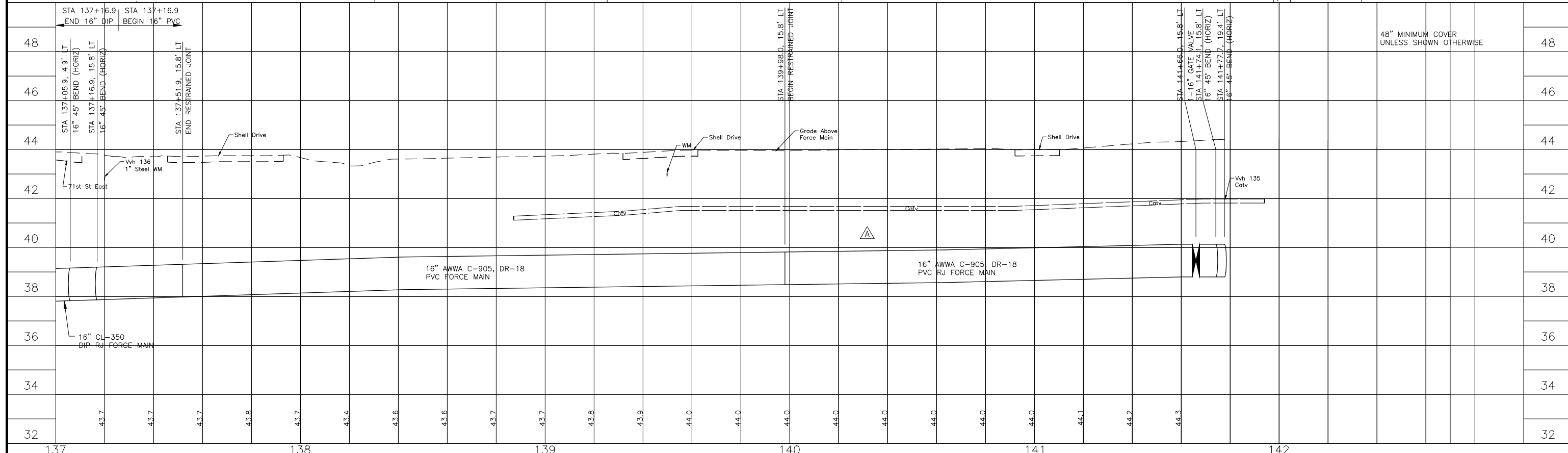


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CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 131+00 TO 137+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561020
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
		SEC. TWP. RGE:	20 29 30		SHEET NUMBER: 20 OF 30



- NOTES:
1. CONTRACTOR SHALL COORDINATE WITH UTILITIES TO HOLD UTILITY POLE DURING CONSTRUCTION.
 2. CONTRACTOR SHALL REMOVE AND REINSTALL OR REPLACE FENCE WITH EQUAL MATERIAL.

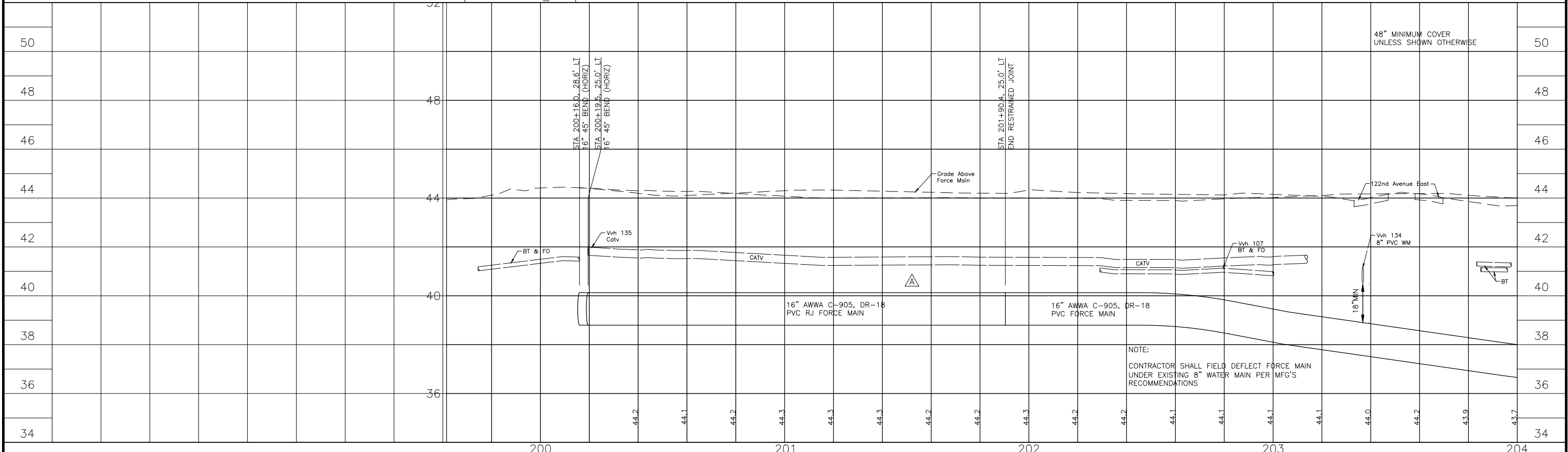
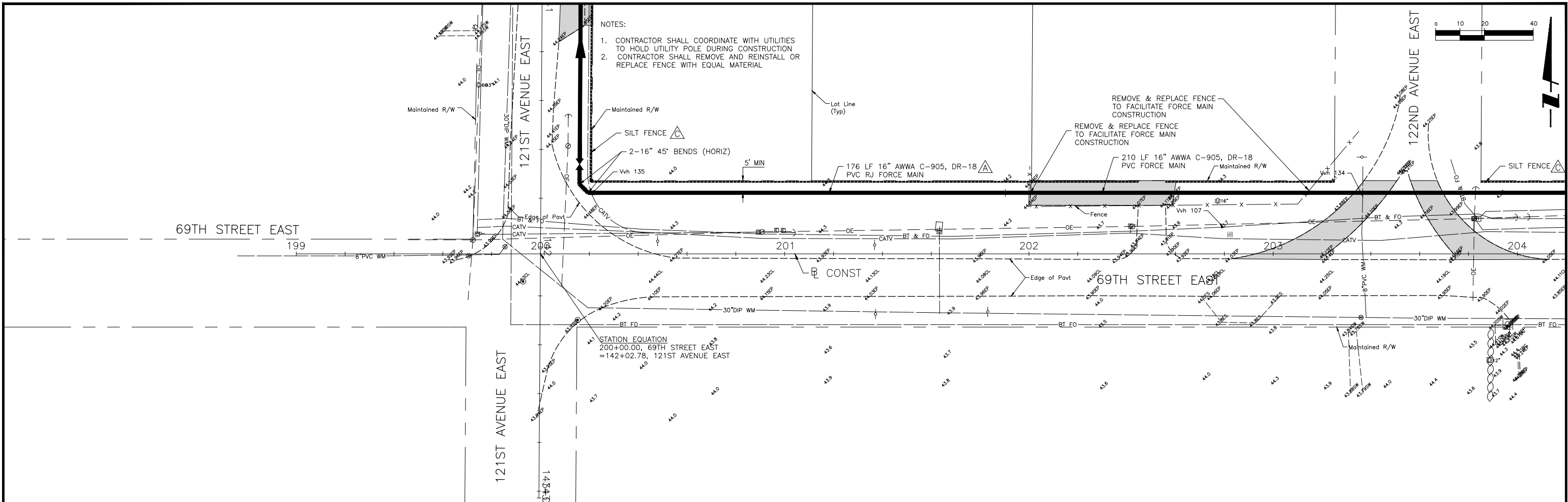


REV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG			DESIGNED BY:	RJH	JULY 2015
C	ADD SILT FENCE	6/26/13	SRP			DRAWN BY:	KG	JULY 2015
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755			CHECKED BY:	RJH	JULY 2015



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 Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 121ST AVENUE EAST STA 137+00 TO 143+00
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561021
		VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
		SEC. TWP. RGE:	20 29 30		177310561
					SHEET NUMBER:
					21 OF 30



ΔREV NO.	REVISION	DATE	DRAWN BY / EIP. NO.	CHECKED BY / EIP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR PERMITTING	08/13/15	KG		
C	ADD SILT FENCE	6/26/13	SRP		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



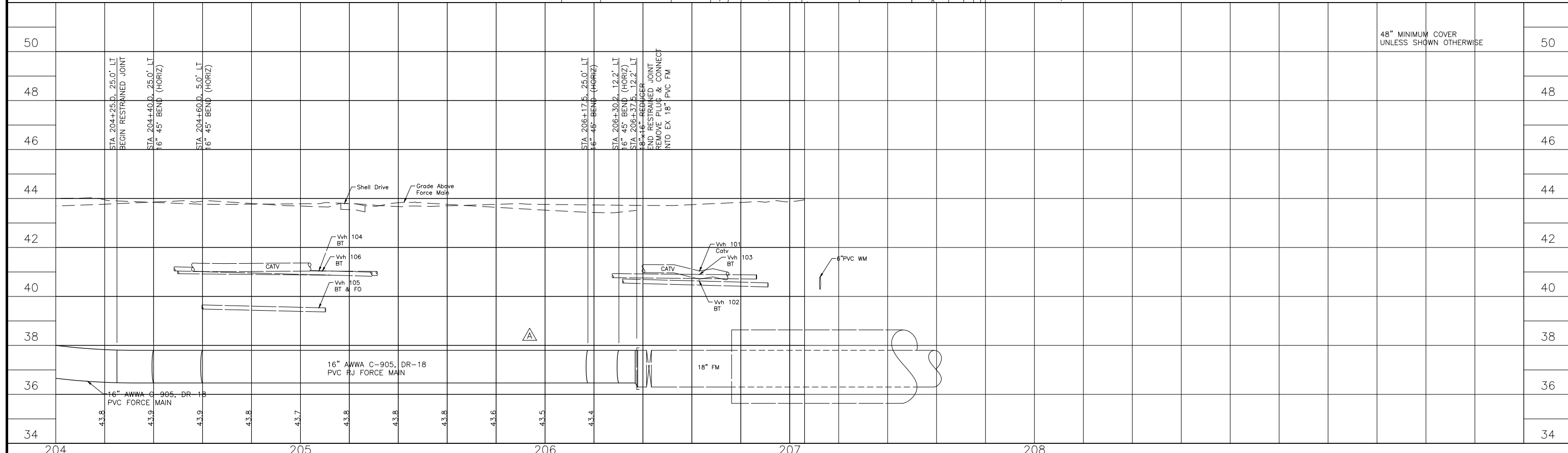
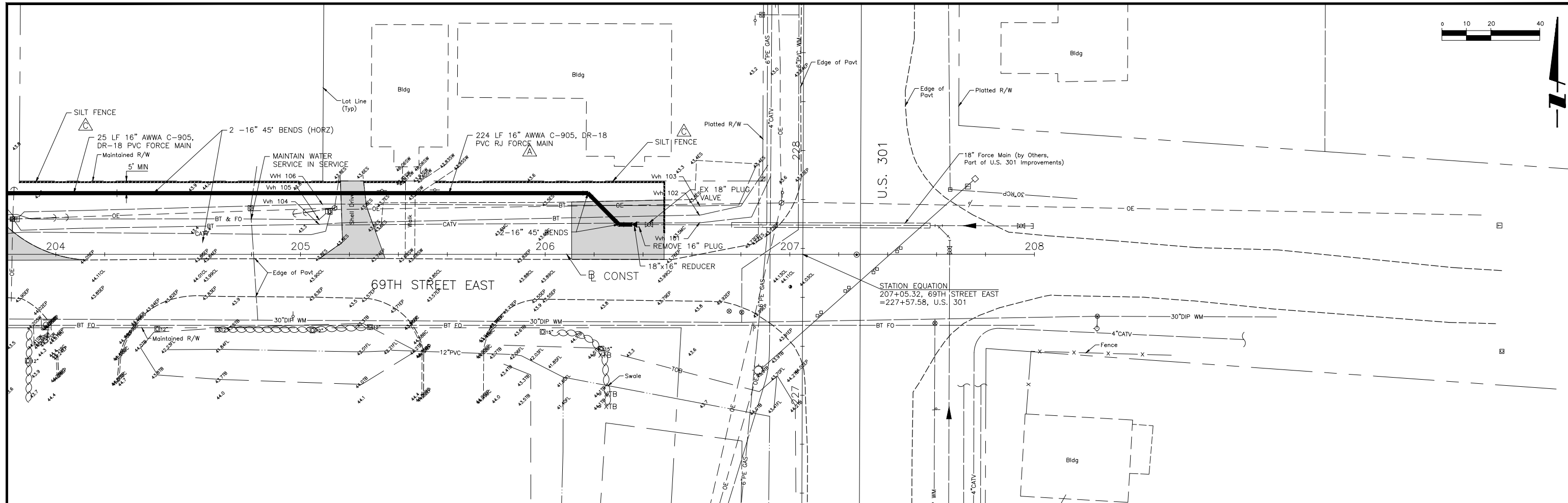
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Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE:	AUGUST 2015
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=2'
SEC.:	2029
TRIP:	33
RGE:	19

TITLE:	PLAN AND PROFILE 69TH STREET EAST STA 200+00 TO 204+00
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	177310561

ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139
INDEX NUMBER: D-177310561022
SHEET NUMBER: 22 OF 30



DATE	BY	DESCRIPTION
08/13/15	KG	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING
6/26/13	SRP	ADD SILT FENCE
1/22/09	SRP/1755	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

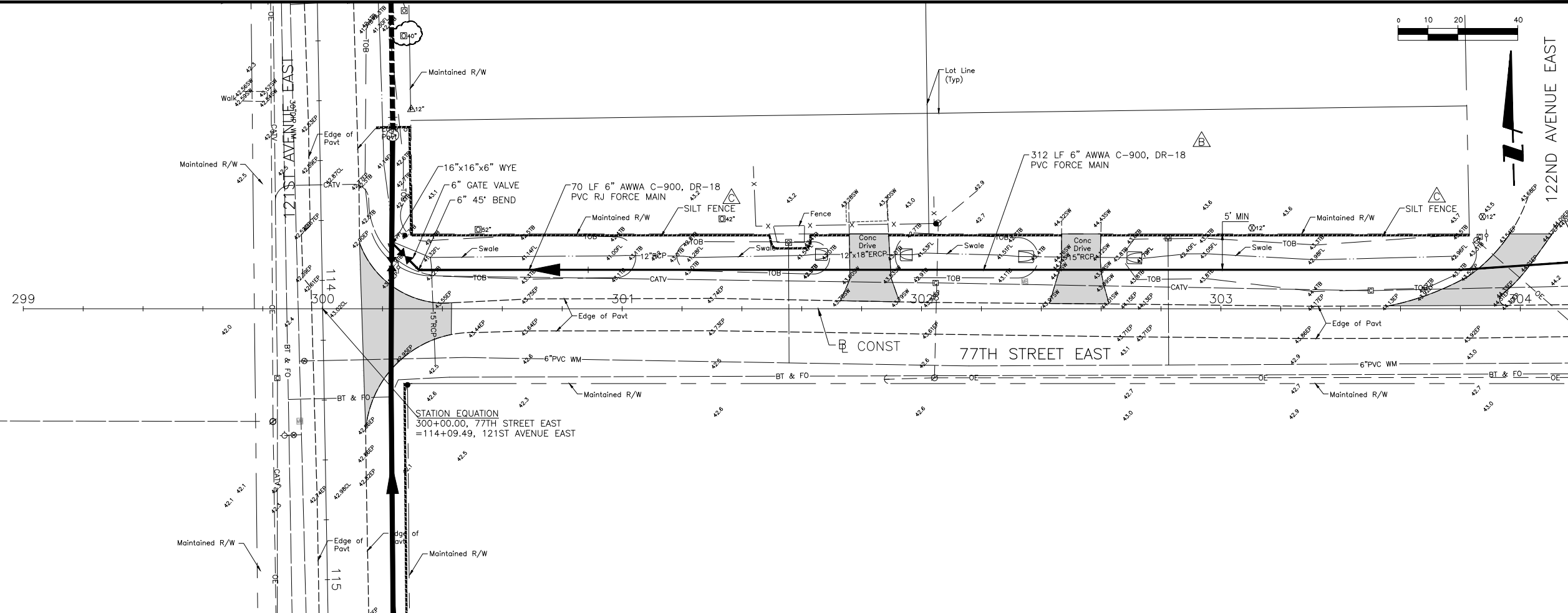


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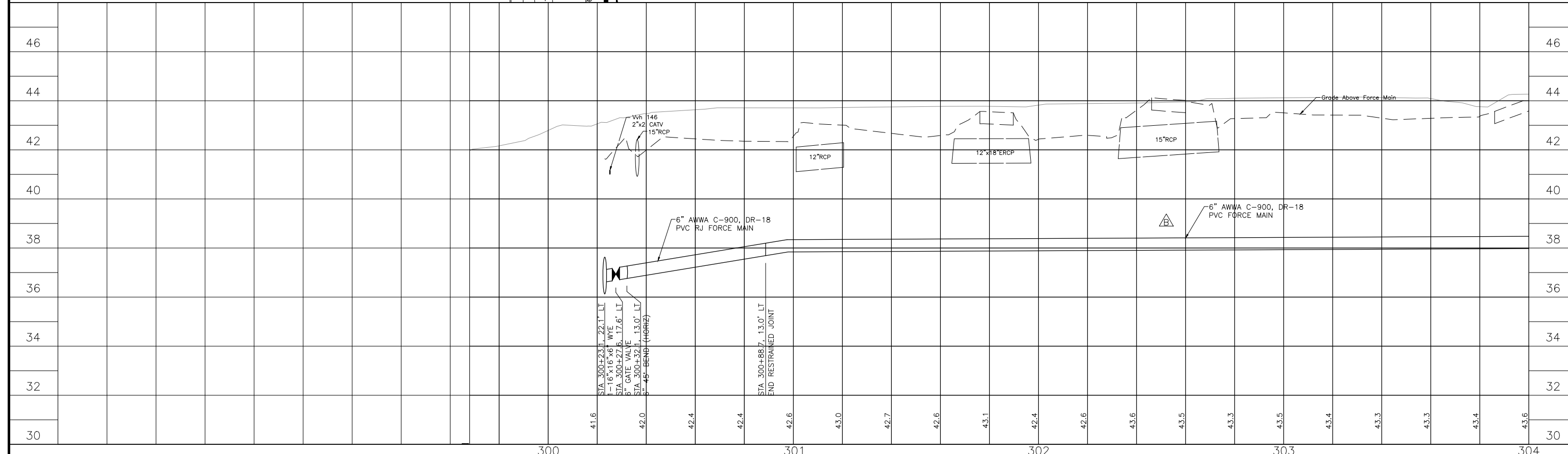
CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE:	AUGUST 2015	TITLE:	PLAN AND PROFILE 69TH STREET EAST STA 204+00 TO 208+00
HORIZONTAL SCALE:	1"=20'	INDEX NUMBER:	D-177310561023
VERTICAL SCALE:	1"=2'	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 177310561
SEC: 20.29	TWP: 33	RGE: 19	SHEET NUMBER: 23 OF 30

ROBERT J. HALBACH, P.E.
 FLORIDA LICENSE NO. 40139



STATION EQUATION
 300+00.00, 77TH STREET EAST
 =114+09.49, 121ST AVENUE EAST



ΔREV NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		
C	ADD SILT FENCE	6/26/13	SRP		
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755		

ACTIVITY: INITIALS/EMP. NO. DATE

DESIGNED BY: RJH JULY 2015

DRAWN BY: KG JULY 2015

CHECKED BY: RJH JULY 2015

CONTRACT ADMIN. BY:

WM APPROVED BY:

Stantec

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CLIENT: MANATEE COUNTY PUBLIC WORKS

PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE: AUGUST 2015

HORIZONTAL SCALE: 1"=20'

VERTICAL SCALE: 1"=2'

SEC: 20, 29, 30 TWP: 33 RGE: 19

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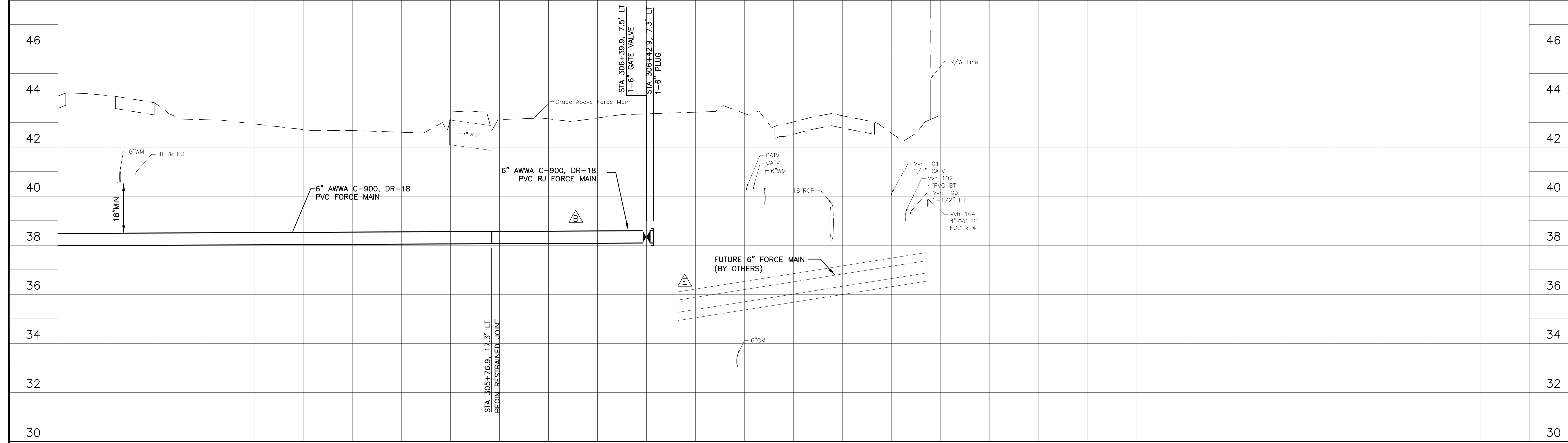
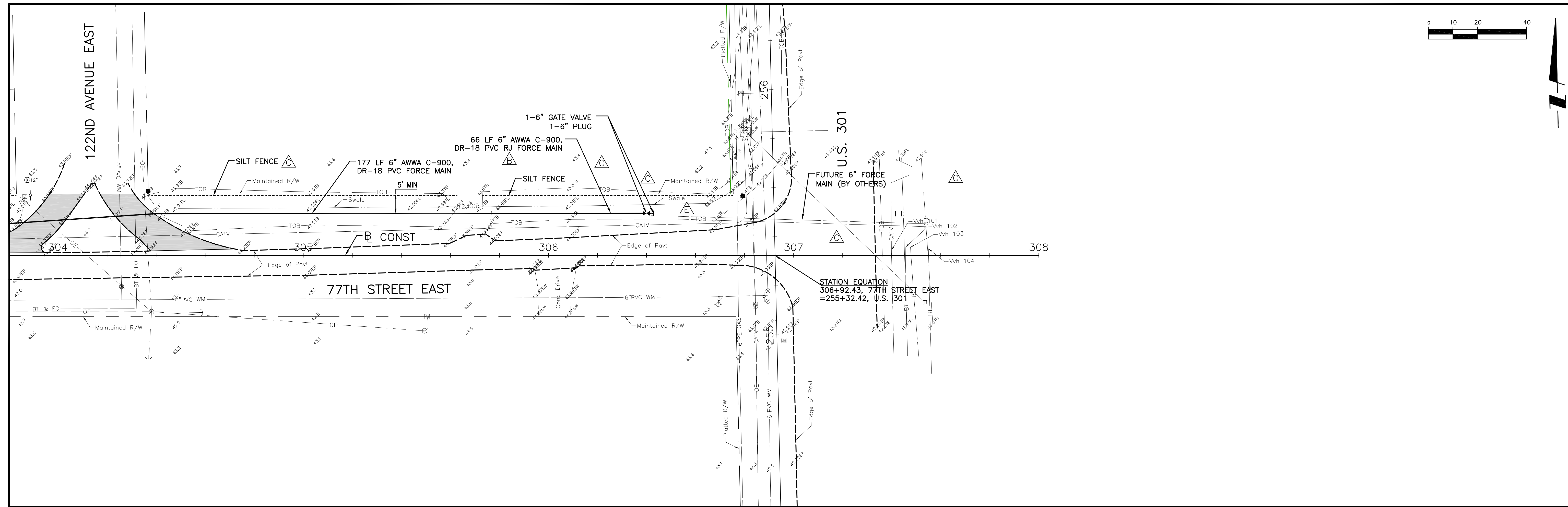
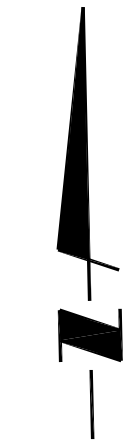
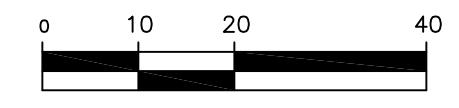
PROJECT NUMBER: 177310561

TITLE: PLAN AND PROFILE 77TH STREET EAST STA 300+00 TO 304+00

ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139

INDEX NUMBER: D-177310561024

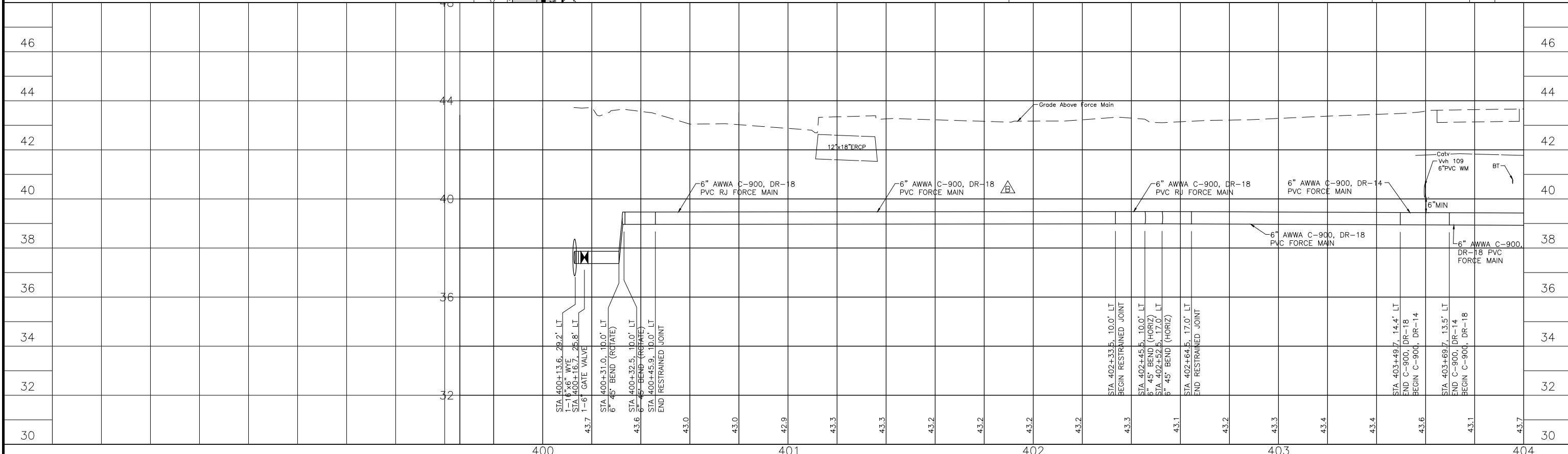
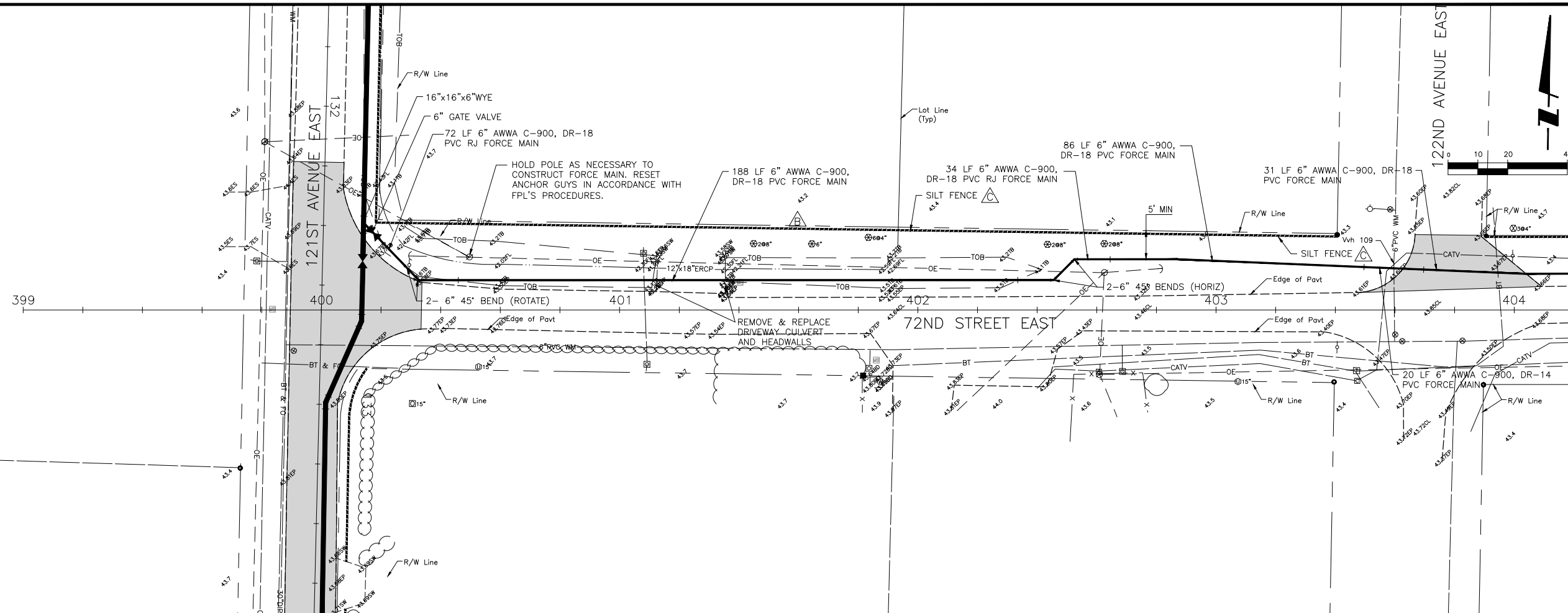
SHEET NUMBER: 24 OF 30



REVISIONS E REVISE FM STEEL CASING PER RECORD DRAWINGS 3/21/17 SRP D UPDATE DESIGN/CODE UPDATES FOR REPERMITTING 08/13/15 KG C REVISE CROSSING, ADD SILT FENCE 6/26/13 SRP B UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS 7/01/10 SRP/1755 A REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09 1/22/09 SRP/1755		DESIGN INFORMATION DESIGNED BY: R/JH JULY 2015 DRAWN BY: KG JULY 2015 CHECKED BY: R/JH JULY 2015 CONTRACT ADMIN. BY:		CLIENT: MANATEE COUNTY PUBLIC WORKS PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN		DATE: AUGUST 2015 HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2' <small>SEC: 20 29 30 TWP: 33 RGE: 19</small>		TITLE: PLAN AND PROFILE 77TH STREET EAST STA 304+00 TO 308+00 INDEX NUMBER: D-177310561025 SHEET NUMBER: 25 OF 30		<small>ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139</small> PROJECT NUMBER: 177310561 CROSS REFERENCE FILE NO.:	
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D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG
C	ADD SILT FENCE	6/26/13	SRP
B	UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS	7/01/10	SRP/1755
A	REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09	1/22/09	SRP/1755

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



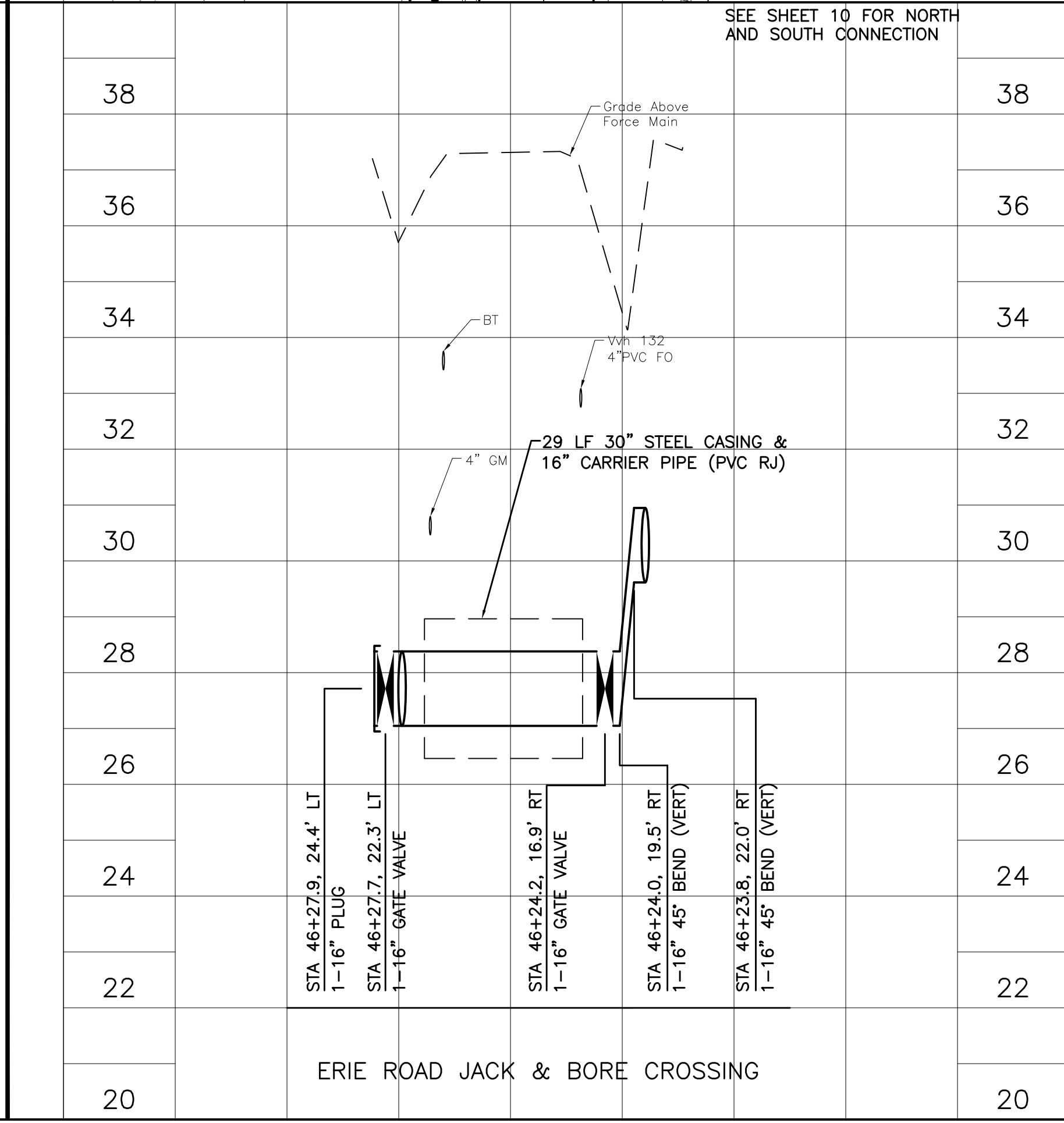
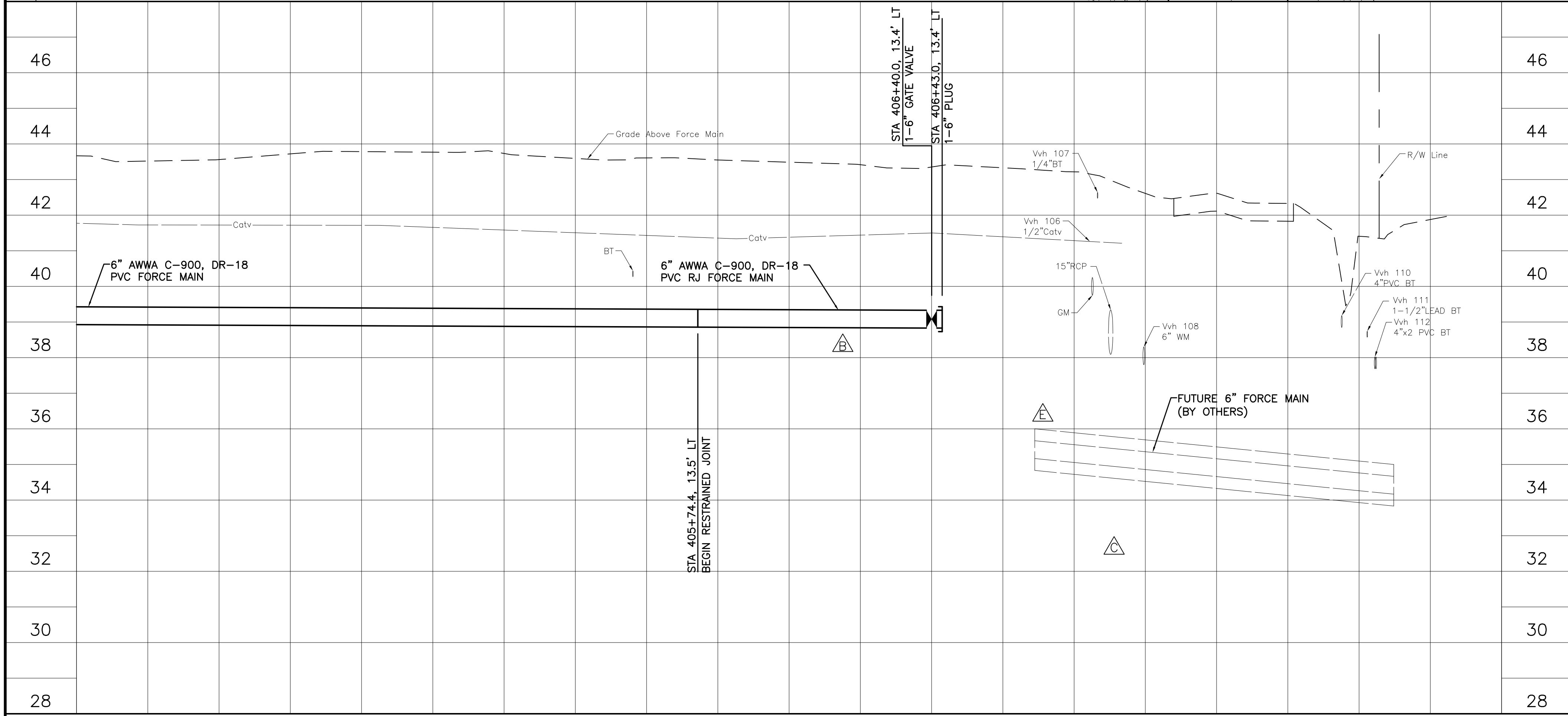
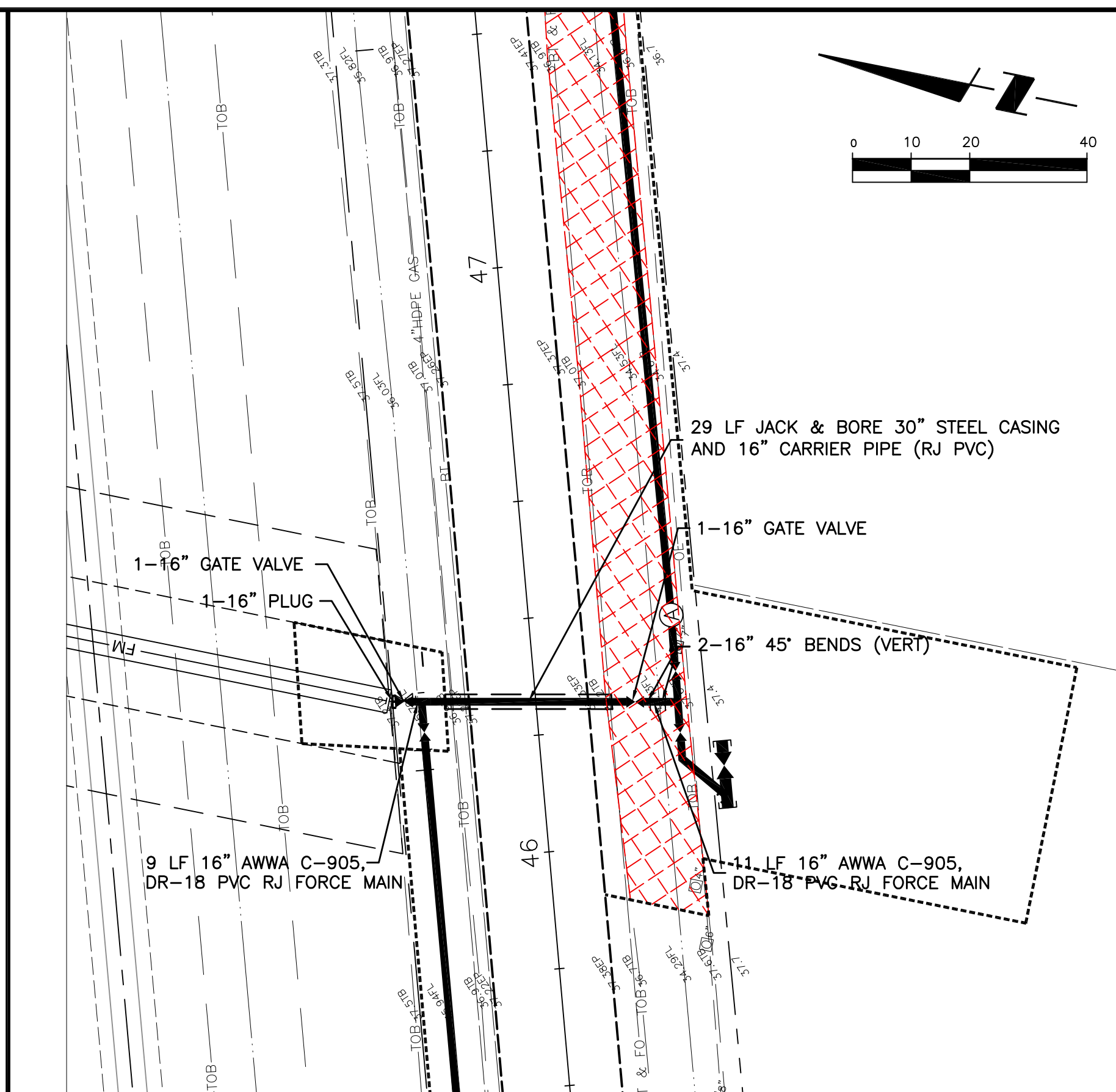
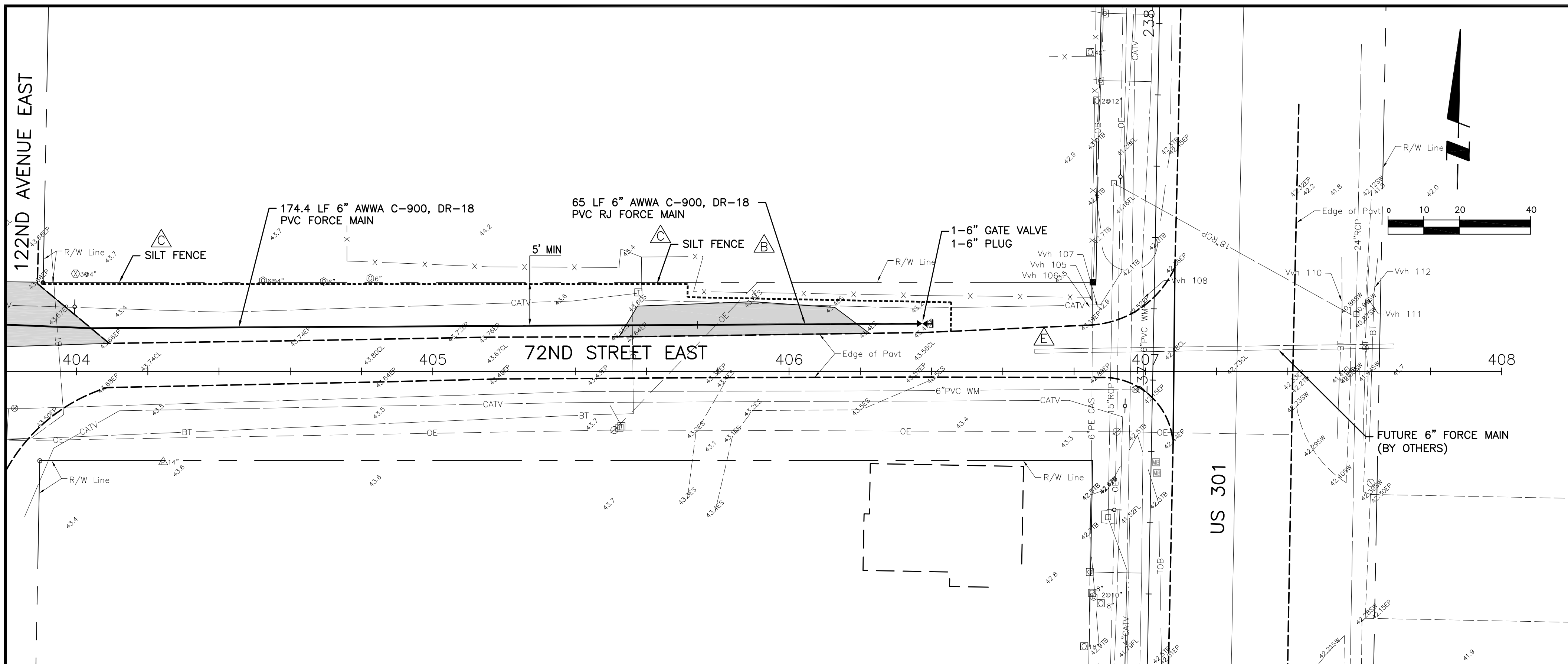
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CLIENT: MANATEE COUNTY PUBLIC WORKS
PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN

DATE: AUGUST 2015
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

TITLE: PLAN AND PROFILE 72ND STREET EAST STA 400+00 TO 404+00
PROJECT NUMBER: 177310561
SHEET NUMBER: 26 OF 30

ROBERT J. HALBACH, P.E.
FLORIDA LICENSE NO. 40139
INDEX NUMBER: D-177310561026
SHEET NUMBER: 26 OF 30



REV	DATE	BY	CHKD	DESCRIPTION
E	03/21/17	SRP		REVISE FM STEEL CASING PER RECORD DRAWINGS
D	08/13/15	KG		UPDATE DESIGN/CODE UPDATES FOR REPERMITTING
C	6/26/13	SRP		REVISE DRILL CROSSING, ADD SILT FENCE
B	7/01/10	SRP/1755		UPDATED PLANS TO INCLUDE TECO GAS MAIN AND COLLECTOR FORCE MAINS
A	1/22/09	SRP/1755		REVISED PER MANATEE COUNTY COMMENTS DATED 5/06/08 & 1/13/09

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



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CLIENT:	MANATEE COUNTY PUBLIC WORKS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN
DATE:	AUGUST 2015
HORIZONTAL SCALE:	1"=20'
VERTICAL SCALE:	1"=2'
DATE:	2029 33 19

TITLE:	PLAN AND PROFILE & ERIE ROAD 72ND STREET EAST & STA 404+00 TO 408+00 JACK & BORE STA 46+25.71 JACK & BORE
INDEX NUMBER:	D-17731056127
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	177310561
SHEET NUMBER:	27 OF 30

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

MAIN PIPE SIZE	HORIZ. BENDS			TEES						REDUCERS						PLUGS & VALVES				
	90°	45°	22.5°	SIZE			LENGTH			SIZE			LENGTH							
				X24	X18	X12	X24	X18	X12	X24	X18	X12	X24	X18	X12					
24	90	38	18	X24	189	X20	132	X16	90	X12	38	X10	24	X8	18	X6	12	X4	6	214
20	78	32	16	X20	141	X16	101	X12	53	X10	24	X8	18	X6	12	X4	6	15	184	
16	66	27	13	X16	111	X12	67	X10	41	X8	24	X6	18	X4	6	12	9	151		
12	52	22	10	X12	80	X10	56	X8	31	X6	18	X4	6	12	9	15	11	118		
10	44	18	9	X10	63	X8	40	X6	18	X4	6	12	9	15	11	11	11	100		
8	37	15	7	X8	49	X6	29	X4	1	X4	1	X4	1	X4	1	X4	1	83		
6	29	12	6	X6	29	X4	1	X4	1	X4	1	X4	1	X4	1	X4	1	63		
4	21	8	4	X4	12	X4	1	X4	1	X4	1	X4	1	X4	1	X4	1	45		

NOTES:

- RESTRAIN 11.25" BENDS 50% OF LENGTH FOR 22.5° BENDS.
- ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
- ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
- PIPE SIZES ARE GIVEN IN INCHES.
- RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
- LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
- THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION 1SD WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
- RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL RESTRAINED LENGTHS FOR PIPE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

RESTRAINED LENGTHS FOR PVC PIPE

UG-8

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

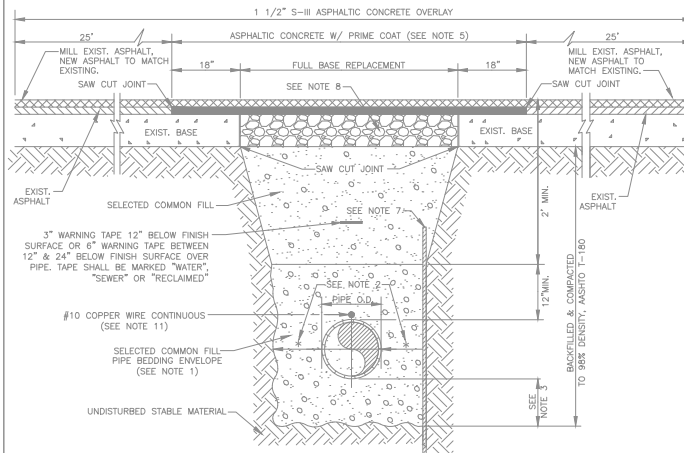
RESTRAINED LENGTHS FOR DIP

UG-9

PAGE 109

NOTES:

- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
- TYPICALLY 4" TO 6".
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1 1/4 INCH, WHICHEVER IS GREATER.
- MILL 25' BACK FROM TRENCH SAW CUT. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY LIMITS ARE FROM EDGE OF PAVEMENT TO EDGE OF PAVEMENT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
- SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
- BASE SHALL BE 8" MINIMUM THICKNESS CRUSHED CONCRETE.
- TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
- RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FOOT STANDARDS, LATEST EDITION.
- TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
- NOTES 5, THRU 10, ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

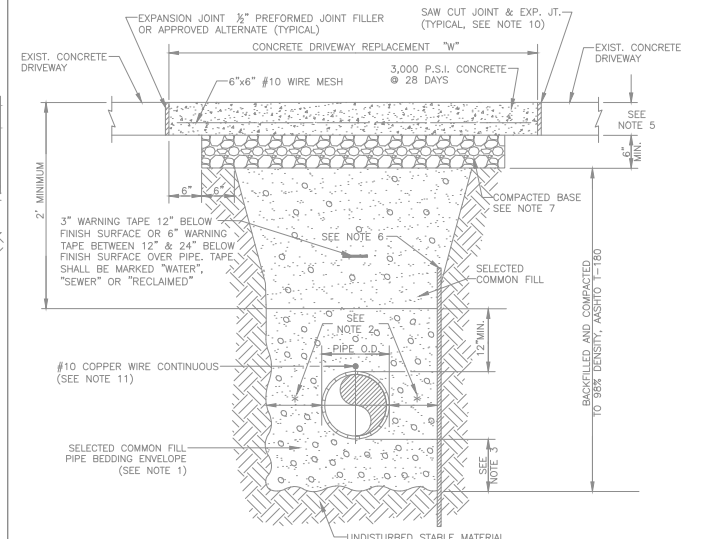
TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING

UG-12

PAGE 112

NOTES:

- USE OF TYPE A-2 AND A-3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
- TYPICALLY 4" TO 6".
- PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
- SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISH GRADE OR 12" BELOW SUBGRADE.
- BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
- DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
- IF THE DRIVEWAY IS 12" OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (3/8" WIDE AND 1/2" DEEP) AFTER THE CONCRETE HAS SET.
- IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
- TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING

UG-14

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WASTEWATER COLLECTION GENERAL NOTES:

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS. IT IS ASSUMED THE IRRIGATION MAINS ARE OR WILL CONVEY REUSE WATER.

- ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
- ELEVATIONS SHOWN ON THE PLANS FOR FLOWLINES OF PROPOSED WASTEWATER MAINS SHALL BE ADHERED TO. IN MOST CASES THE DESIGN GRADES ARE CRITICAL AND ADJUSTMENTS CAUSED BY MISALIGNMENT OR IMPROPER GRADES ARE IMPRACTICAL. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
- THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING.
- THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE WASTEWATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
- FORCE MAINS SHALL BE RESTRAINED JOINT IN ACCORDANCE WITH THE WATER MAIN DETAILS UNLESS OTHERWISE SPECIFIED. FORCE MAINS 4" THROUGH 12" SHALL BE AWWA C-900 DR18 (150 PSI), GREEN IN COLOR & HAVE THE O.D. OF DUCTILE IRON. FORCE MAINS OVER 14" THROUGH 36" SHALL BE AWWA C-905, DR18 OR DUCTILE IRON (GI-50) PIPE WITH 40 MIL "PROTECTO 401" INTERIOR LINING.
- ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
- ALL PVC FORCE MAINS SHALL BE GREEN IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE FORCE MAIN. THE TAPE SHALL BE MARKED "FORCE MAIN" FOR FORCE MAINS. THE COST FOR THE TAPE SHALL BE INCLUDED IN THE FORCE MAIN UNIT PRICES.
- NO. 12 COPPER WIRE SHALL BE PULLED WITH HDPE FORCE MAINS INSTALLED BY DIRECTIONAL BORE METHOD.
- ALL FORCE MAIN PLUG VALVES SHALL BE DOUBLE-SEATED, CAPABLE OF HOLDING A 150 PSI MINIMUM TEST PRESSURE FOR TWO (2) HOURS IN EITHER DIRECTION.

SEWER TESTING:

 - TESTING SHALL BE IN CONFORMANCE WITH MANATEE COUNTY PUBLIC WORKS STANDARDS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING ALL FORCE MAINS IN ACCORDANCE WITH THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION. THE CONTRACTOR SHALL ENSURE THAT FORCE MAINS CAN BE TESTED AT ALL MANHOLE CONNECTIONS AND PLUG VALVE LOCATIONS. IF GATE VALVES MUST BE UTILIZED FOR TESTING PURPOSES, ANY COST ASSOCIATED WITH THE INSTALLATION OF GATE VALVES, (INCLUDING MATERIALS) SHALL BE AT THE CONTRACTOR'S EXPENSE. ANY GATE VALVE(S) INSTALLED FOR TESTING PURPOSES SHALL BE ABANDONED AND LEFT FULLY OPENED.

NOTE:

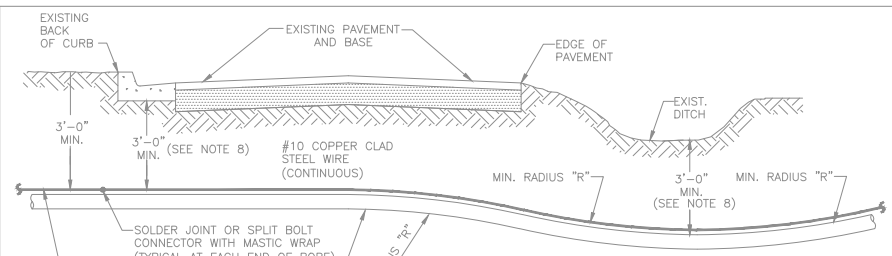
- IN ADDITION TO THE MANATEE COUNTY RESTRAINED LENGTHS FOR PVC PIPE DETAIL:
- IN-LINE GATE VALVES AND PLUG VALVES TO BE RESTRAINED THE SAME LENGTH EACH WAY THE SAME AS A PLUG.
 - DEAD END GATE VALVES AND PLUG VALVES TO BE RESTRAINED THE SAME LENGTH AS A PLUG.
 - THE CONTRACTOR SHALL OBTAIN A QUALIFIED TESTING LABORATORY IN ORDER TO DETERMINE ACTUAL SOIL CONDITIONS PRIOR TO PIPE INSTALLATION. IF EXISTING SOIL CONDITIONS ARE NOT CONSISTENT WITH THE DESIGN SOIL CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IN ORDER TO MODIFY THE RESTRAINED LENGTHS ACCORDINGLY.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

DIRECTIONAL BORE ROADWAY CROSSING

UG-4

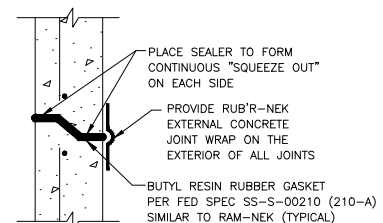
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NOTES:

- ALL POLYETHYLENE PIPING SHALL MEET MANATEE COUNTY STANDARDS AND SPECIFICATIONS. DR-11, CLASS 150 OR GREATER PRESSURE CLASS SHALL BE USED FOR POTABLE, RECLAIMED WATER OR SANITARY FORCE MAINS. DR-9 MAY BE REQUIRED BASED ON THE ENGINEER'S CALCULATIONS. SEE NOTE #2.
- THE ENGINEER SHALL SUBMIT CALCULATIONS FOR THE MAXIMUM PULLING LENGTH, TOTAL PULL FORCE AND THE ALLOWABLE TENSILE LOAD, IN ACCORDANCE WITH AWWA M55 & ASTM F1804. DESIGN SHALL ALSO BE IN ACCORDANCE WITH ASTM F1962.
- THE PIPE STRING SHALL BE ATTACHED TO THE BACKREAMER THROUGH A "WALK-LINK" DEVICE TO ENSURE THAT THE PULLING FORCE DOES NOT EXCEED THE PIPE'S ALLOWABLE TENSILE LOAD RATING.
- ONE # 10 GAUGE EXTRA HIGH STRENGTH COPPER CLAD STEEL TRACER WIRE SHALL BE PULLED AND SECURED TO THE PIPE FOR PIPELINES THAT ARE INSTALLED BY TRENCHLESS HORIZONTAL DIRECTIONAL DRILLING METHOD. IN TRENCHLESS/NON-DIRECTIONAL BORE APPLICATIONS, A # 10 GAUGE SOLID INSULATED COPPER WIRE SHALL BE ATTACHED TO THE PIPE. TRACER WIRES SHALL HAVE A MINIMUM 30-MILS OF POLYETHYLENE INSULATION.
- COLOR CODED BLUE FOR POTABLE WATER MAINS.
- COLOR CODED PURPLE (PANTONE 522 C) FOR RECLAIMED WATER MAINS.
- COLOR CODED GREEN FOR SANITARY FORCE MAINS.
- PIPE DEPTHS MAY NEED TO BE DEEPER TO AVOID FRACKOUTS. PIPEALIGNMENT SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS.
- FOOT CRITERIA SHALL BE MET FOR PIPES UNDER STATE ROADS.

PIPE DIAMETER "D" IN INCHES	MIN. RADIUS FOR PE PIPE IN FEET	
	MIN. RADIUS "R" FOR DR-11	MIN. RADIUS "R" FOR DR-9
2	4	5.5
3	6	8.5
4	8	11.0
6	12	16.5
8	16	22.0
10	20	27.5
12	24	33.0
16	32	44.0
18	36	49.5
20	40	55.0



TYPICAL JOINT DETAIL

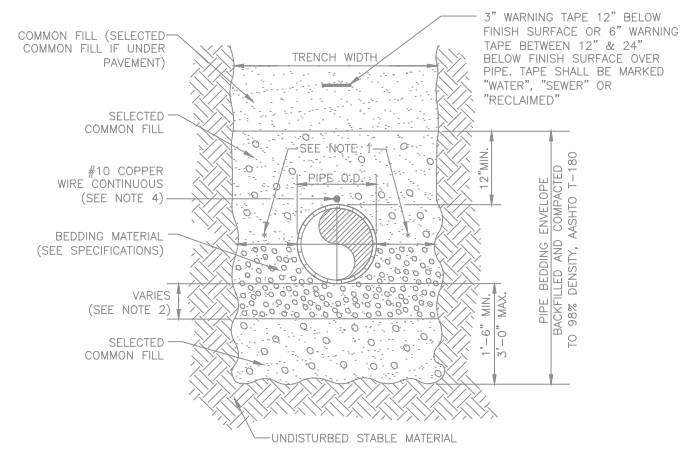
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		



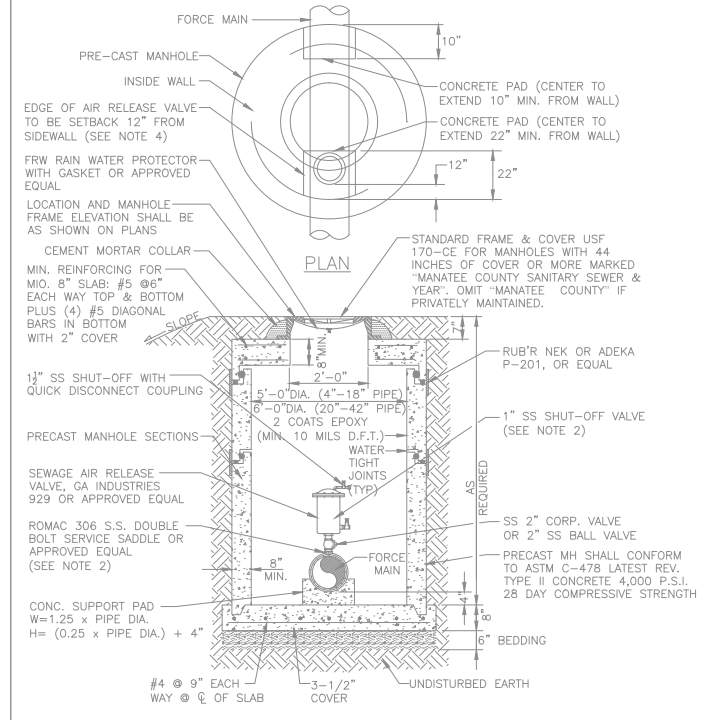
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Tel. 941.366.1922 Fax. 941.225.6182 Florida Certificate No. 27013 www.stantec.com

CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	WASTEWATER COLLECTION CONSTRUCTION DETAILS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	AS NOTED	INDEX NUMBER:	D-17731056128
		VERTICAL SCALE:	N/A	SHEET NUMBER:	28 OF 30
		SEC. TWP. RGE:	20-29 30 19	CROSS REFERENCE FILE NO.:	177310561
				PROJECT NUMBER:	177310561

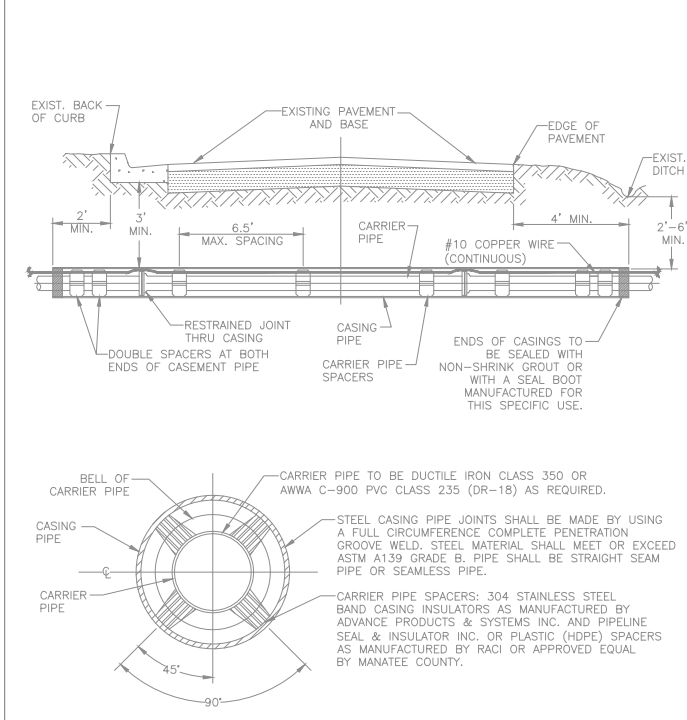
- NOTES:
- PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
 - TYPICALLY 4" TO 6".
 - PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
 - TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



NOTE:
IN ADDITION TO THE MANATEE COUNTY TRENCH DETAIL, THE DETECTABLE TAPE SHALL BE MARKED AS FOLLOWS:
1. "RECLAIMED WATER" FOR RECLAIMED WATER DISTRIBUTION LINES.
2. "WATER" FOR POTABLE WATER DISTRIBUTION LINES.
3. "FORCE MAIN" FOR FORCE MAIN TRANSMISSION LINES.

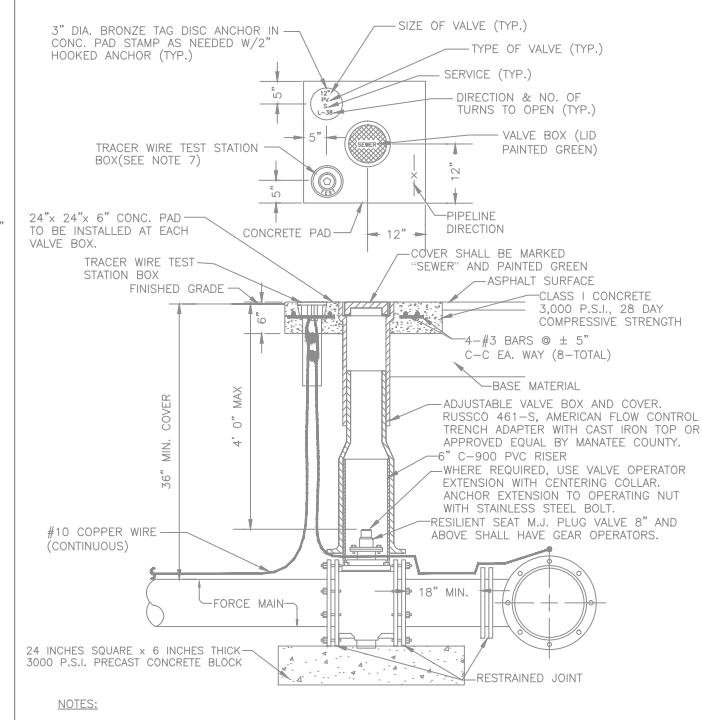


- NOTES:
- AIR RELEASE VALVES WHERE REQUIRED ON 4" AND LARGER FORCE MAINS.
 - ARV TO BE SIZED ACCORDING TO MANUFACTURER'S RECOMMENDATION FOR FORCE MAIN SIZE.
 - SERVICE SADDLE, NIPPLES AND CORPORATION BALL VALVE SHALL BE STAINLESS STEEL.
 - FOR MANHOLES WITH LESS THAN 44 INCHES OF COVER FROM TOP-OF-PIPE TO TOP-OF-FRAME, FRAME & COVER TO BE 32-INCH PAMREX WITH 32 INCH OPENING, OFFSET ARV 7.5 INCHES FROM CENTER OF OPENING. MINIMUM ALLOWABLE COVER IS 36 INCHES.
 - ALL PIPE PENETRATING MANHOLE SHALL HAVE RESILIENT PIPE TO MANHOLE SEALS PER ASTM-923.
 - FINAL GRADE TO BE SLOPED AWAY FROM MANHOLE.



CARRIER SIZE & MINIMUM CASING SIZE	
CARRIER	4" 6" 8" 10" 12" 14" 16" 18" 20"
CASING	12" 14" 18" 20" 24" 30" 36" 36"
CASING / WALL THICKNESS	0.188 0.188 0.250 0.250 0.344 0.406 0.406 0.406 0.406

- NOTES:
- THE ENGINEER OF RECORD MAY SELECT LARGER CASING DIAMETERS.
 - FOR JACK & BORE SPECIFICATIONS UNDER STATE ROADS AND RAILROADS REFER TO THE F.D.O.T. UTILITY ACCOMMODATION MANUAL, LATEST EDITION.



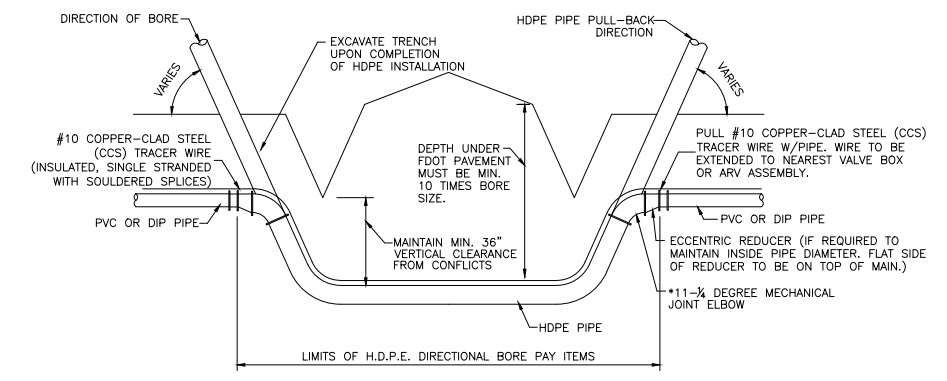
- NOTES:
- "SV" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A GREEN DISC WITH "SV" AND A 1/8"x1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE DISTANCE (FT.) FROM THE DISC TO THE VALVE.
 - ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD.
 - SEWER VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS.
 - PRECAST CONCRETE PADS SHALL NOT BE USED.
 - ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
 - PLUG VALVES SHALL NOT BE USED AS A TAPPING VALVE. WHERE AN EXISTING FORCE MAIN IS TO BE TAPPED, USE A TAPPING GATE VALVE PER THE TAPPING SLEEVE AND VALVE DETAIL.
 - TEST BOX TO BE BINGHAM & TAYLOR P200NFG OR EQUAL FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR UNDER VEHICLE TRAFFIC, USE P252RD CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	PAGE 116

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		BELOW GRADE AIR RELEASE VALVE FOR FORCE MAINS	US-10
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	PAGE 150

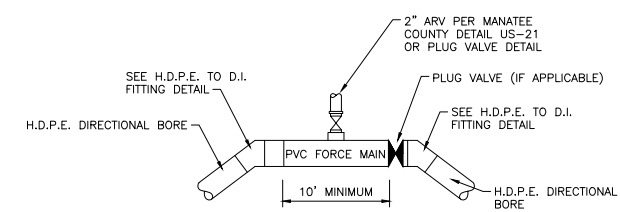
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		JACK & BORE CROSSING	UG-3
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	PAGE 103

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		PLUG VALVE, BOX, COVER AND TAG	US-12
REV. BY CLB/BR	DATE 11/10	MAY 10, 2011	PAGE 152

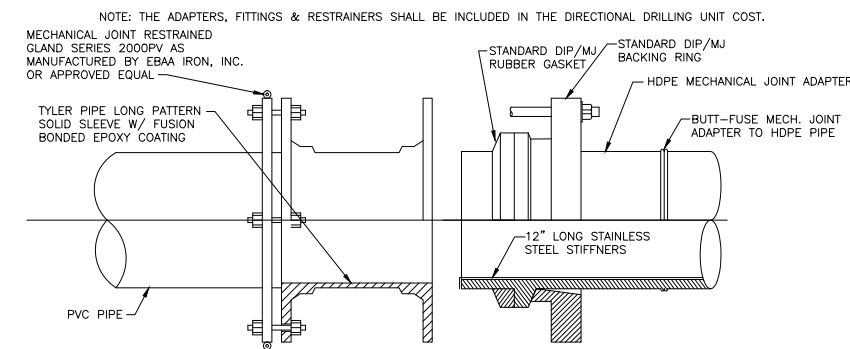


- NOTE:
- ALL FITTINGS/JOINTS ASSOCIATED WITH THE DIRECTIONAL BORE SHALL BE RESTRAINED AND EPOXY LINED (PROTECTO 401 OR EQUAL.)
 - CONTRACTOR TO PROVIDE SITE PREP WORK FOR DRILLING RIG IN BID ITEM COST, WITH NO ADDITIONAL COST.
 - CONTRACTOR TO OBTAIN ENGINEER'S APPROVAL FOR ANY BORE EXCEEDING 10% OF DESIGN DEPTH.

HORIZONTAL DIRECTIONAL DRILLING DETAIL
N.T.S.



AIR RELEASE VALVE
CONNECTION ON HDPE PIPE
N.T.S.



H.D.P.E. TO P.V.C. FITTING DETAIL
N.T.S.

WARNING
Manatee County
Existing Buried _____ SIZE AND TYPE OF PIPE _____
Design Depth below Bottom = _____
Distance from Edge of Pavement = _____

CROSSING SIGN DETAIL
N.T.S.

- THE CONTRACTOR SHALL PROVIDE A PERMANENT METALIC WARNING SIGN WITH SUITABLE POST ON THE SIDE OF EACH CROSSING. SIGN MATERIAL TO BE PER FOOT DESIGN STANDARDS, LATEST EDITION.
- 10" MAX. FOR PIPE DIAMETER LESS THAN 24"; 12" MAX. FOR PIPE DIAMETER 24" AND LESS THAN 42"; 24" MAX. FOR PIPE DIAMETER 42" AND OVER.
 - 4" MAX. FOR PIPE 16" DIAMETER AND LESS; 6" MAX. FOR PIPE 18" TO 36" DIAMETER; AND 9" MAX. FOR PIPE 42" DIAMETER AND LARGER.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

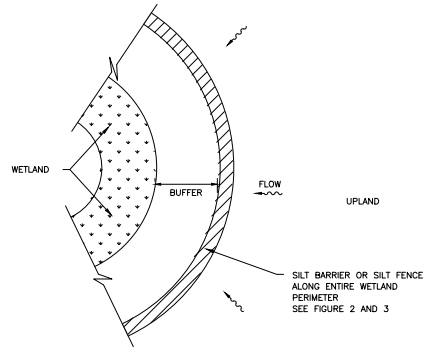
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	UPDATE DESIGN/CODE UPDATES FOR REPERMITTING	08/13/15	KG		
A	REVISED PER MANATEE COUNTY COMMENTS DATED 05/06/08 & 01/13/09	1/22/09	SRP/1755		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:	RJH	JULY 2015
DRAWN BY:	KG	JULY 2015
CHECKED BY:	RJH	JULY 2015
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

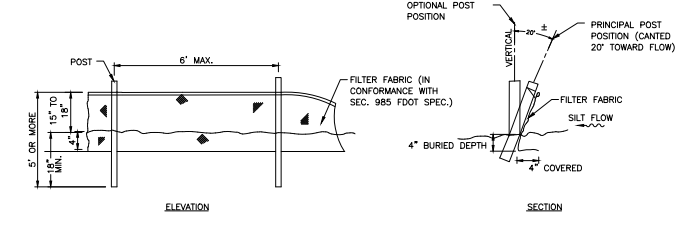


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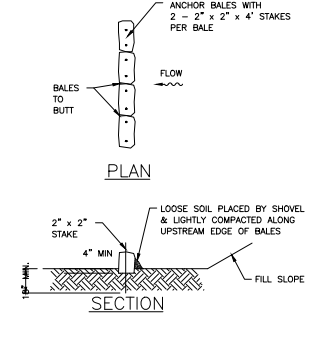
CLIENT:	MANATEE COUNTY PUBLIC WORKS	DATE:	AUGUST 2015	TITLE:	WASTEWATER COLLECTION CONSTRUCTION DETAILS
PROJECT:	VILLAGE OF PARRISH WASTEWATER FORCE MAIN	HORIZONTAL SCALE:	AS NOTED	INDEX NUMBER:	D-17731056129
		VERTICAL SCALE:	N/A	CROSS REFERENCE FILE NO.:	177310561
		SEC. TWP. RGE:	20 29 30	PROJECT NUMBER:	177310561
				SHEET NUMBER:	29 OF 30



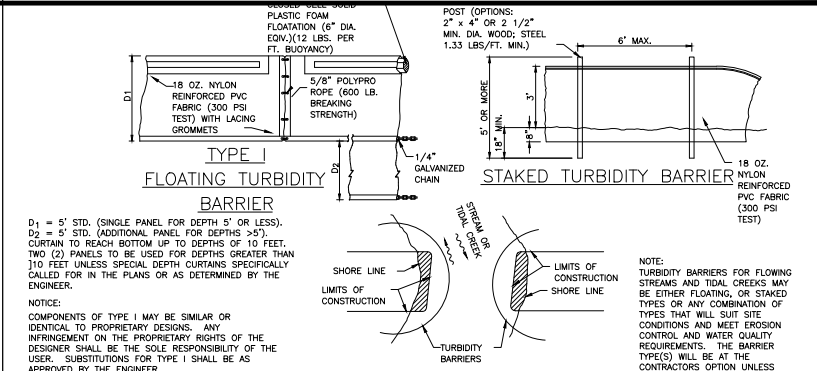
WETLAND BUFFER
N.T.S.
FIGURE 1



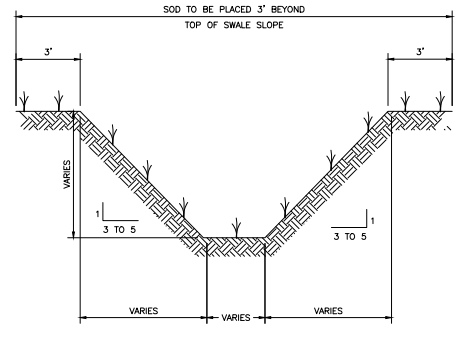
TYPICAL SILT FENCE
N.T.S.
FIGURE 2



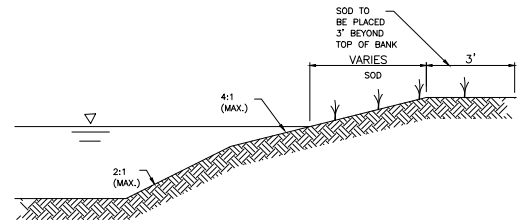
TYPICAL BALE SILT BARRIER
N.T.S.
FIGURE 3



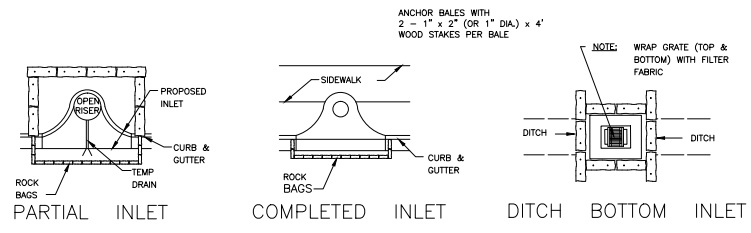
TURBIDITY BARRIER APPLICATIONS
TURBIDITY BARRIERS
N.T.S.
FIGURE 4



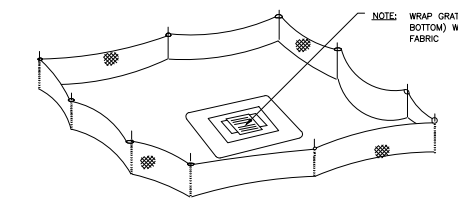
TYPICAL SWALE SECTION
N.T.S.
FIGURE 5



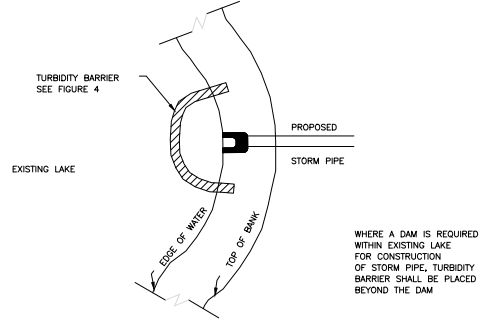
TYPICAL RETENTION/DETENTION POND SECTION
N.T.S.
FIGURE 6



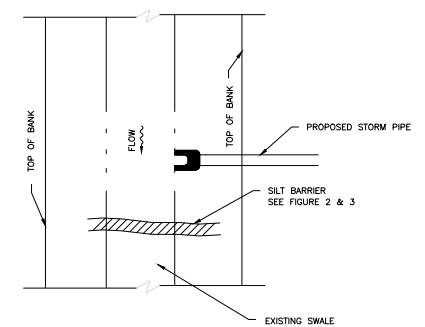
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.
FIGURE 7



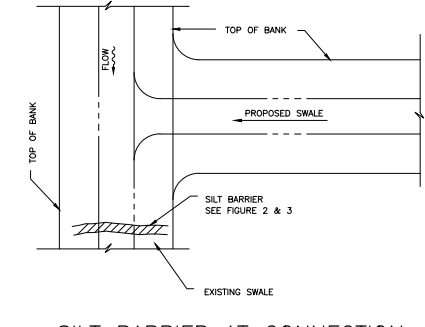
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM
N.T.S.
FIGURE 8



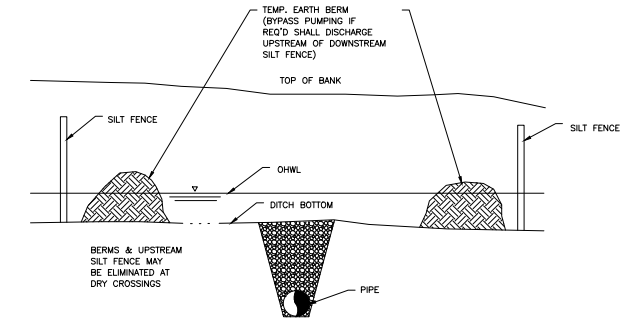
TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
N.T.S.
FIGURE 9



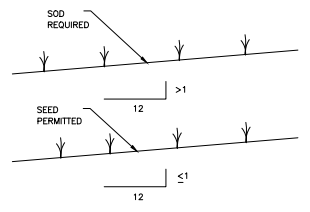
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
N.T.S.
FIGURE 10



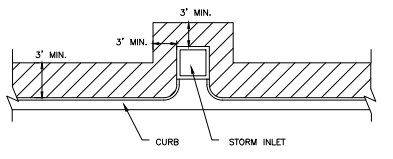
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
N.T.S.
FIGURE 11



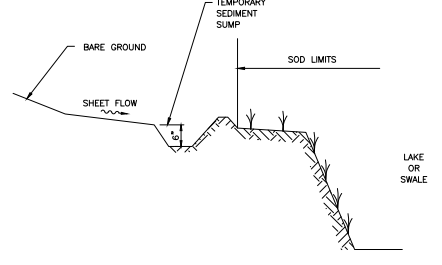
UNDERGROUND PIPE CROSSING
N.T.S.
FIGURE 12



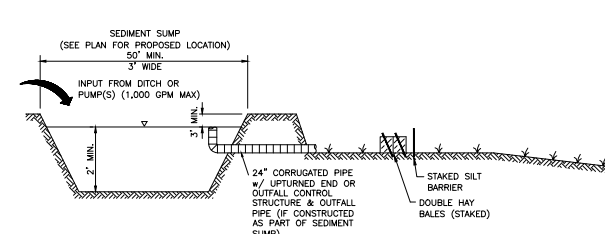
GRASS SLOPES
N.T.S.
FIGURE 13



SOD ALONG CURB AND AROUND INLET
N.T.S.
FIGURE 14



TEMPORARY SEDIMENT SUMP
N.T.S.
FIGURE 15



SEDIMENT SUMP SECTION
N.T.S.
FIGURE 16

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER/APPLICANT SIGNATURE _____ DATE _____

<p>ACTIVITY: INITIALS/EMP. NO. DATE</p> <p>DESIGNED BY: RJH JULY 2015</p> <p>DRAWN BY: KG JULY 2015</p> <p>CHECKED BY: RJH JULY 2015</p> <p>CONTRACT ADMIN. BY: _____</p> <p>WM APPROVED BY: _____</p>				<p>CLIENT: MANATEE COUNTY PUBLIC WORKS</p> <p>PROJECT: VILLAGE OF PARRISH WASTEWATER FORCE MAIN</p>				<p>DATE: AUGUST 2015</p> <p>HORIZONTAL SCALE: AS NOTED</p> <p>VERTICAL SCALE: N/A</p> <p>SEC. TWP. RGE: 20.29 33 19</p>		<p>TITLE: BEST MANAGEMENT PRACTICES DETAILS</p> <p>ROBERT J. HALBACH, P.E. FLORIDA LICENSE NO. 40139</p> <p>INDEX NUMBER: D-17731056130</p> <p>SHEET NUMBER: 30 OF 30</p>	
<p>D UPDATE DESIGN/CODE UPDATES FOR REPERMITTING 08/13/15 KG</p>				<p>DATE: 08/13/15</p>				<p>CROSS REFERENCE FILE NO.: 177310561</p>		<p>PROJECT NUMBER: 177310561</p>	



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