

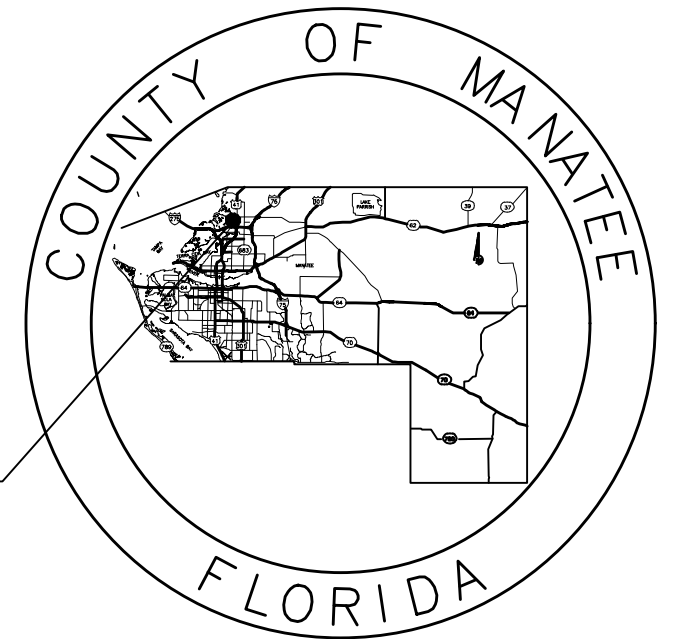
CONTRACT PLAN COMPONENTS

DRAINAGE PLANS
SURVEY PLANS

STATE OF FLORIDA
COUNTY OF MANATEE

PLANS OF PROPOSED DRAINAGE REHABILITATION
RUBONIA
PALMETTO, FLORIDA

PROJECT LOCATION



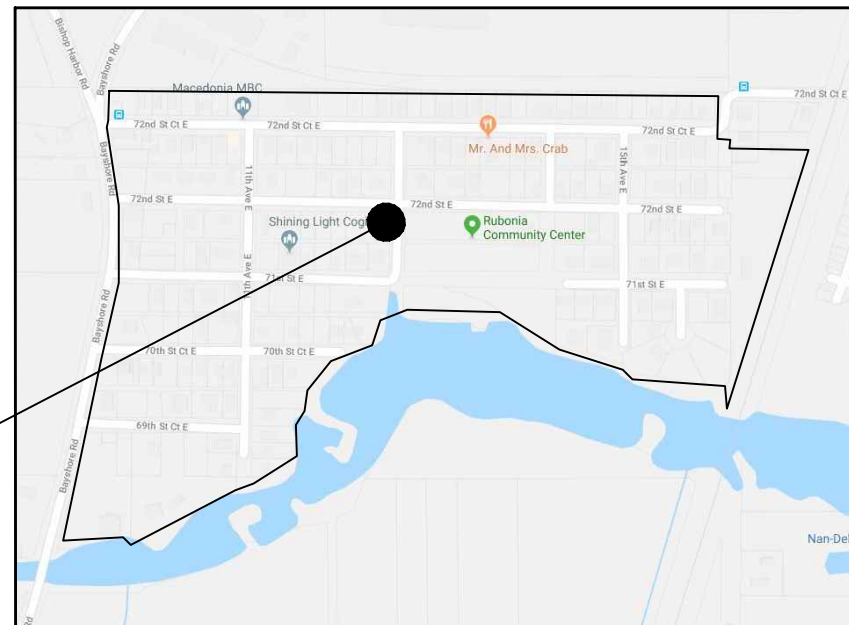
MANATEE COUNTY PROJECT No: 304-6093460

INDEX OF ROADWAY PLANS

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DECEMBER 2019

PROJECT LOCATION



GOVERNING DESIGN STANDARDS:
MANATEE COUNTY HIGHWAY, TRAFFIC & STORMWATER
STANDARDS DATED JUNE 2015.


GOVERNING DESIGN STANDARDS:
MANATEE COUNTY UTILITY SPECIFICATIONS DATED APRIL 2019.

GOVERNING DESIGN STANDARDS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2019-20 DESIGN
STANDARDS eBOOK (DSeB) AND APPLICABLE DESIGN STANDARDS
REVISIONS (DSRs) AT THE FOLLOWING WEBSITE:
<http://www.fdot.gov/rddesign/DesignStandards/Standards.shtm>

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, JANUARY 2020
STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION AS THE FOLLOWING WEBSITE:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



Know what's below
Call before you dig

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	03/08/18	<p>JOHN PARI, P.E. FLORIDA P.E. # 56368</p>  <p>PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208</p>	<p>DRAINAGE REHABILITATION RUBONIA COVER SHEET</p>	SHEET NO.
			SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX			<p>01</p>
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18			
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX			

LINE NO.	ITEM NO.	DESCRIPTION	EST QTY	U/M
1	101-1	Mobilization	1.00	LS
2	102-1	Maintenance of Traffic	1.00	LS
3	104-10-3	Slaked Silt Fence (Type III)	16,600.00	LF
4	104-11	Floating Turbidity Barrier (Type II)	825.00	LF
5	104-15	Soil Tracking Prevention Device	2.00	EA
6	104-18	Inlet Protection System	170.00	EA
7	110-MC	Clearing & Grubbing, incl. trees, pipes, wood / conc. structures, Brazilian Peppers	1.00	AC
8	120-1	Regular Excavation	14,200.00	CY
9	120-4	Excavation, Subsoil	100.00	CY
10	120-6	Embankment (Regular)	500.00	CY
11	120-1	Milling Exist. Asphalt Pavement (1" Avg. Depth)	20,660.00	CY
12	134-1-MC1	1.5" Type S-II Asphalt Concrete	1,860.00	TN
13	400-1-2	Concrete Class I, Endwalls	30.00	CY
14	400-0-11	Concrete Class NS	20.00	CY
15	400-1-15	Concrete Class I, Miscellaneous	4.00	CY
16	416-1-MC1	Helical screw anchors (A2000 Pipe)	50.00	EA
17	425-1-711	Inlets, Gutter, Type V, < 10'	4.00	EA
18	425-1-521	Inlets, Ditch Bot, Type C, < 10'	60.00	EA
19	425-1-523	Inlets, Ditch Bot, Type C, J-Bot (9'Ø), < 10'	3.00	EA
20	425-1-541	Inlets, Ditch Bot, Type D, < 10'	25.00	EA
21	425-1-551	Inlets, Ditch Bot, Type E, < 10'	3.00	EA
22	425-1-MC1	Diversion Box (10 X8)	1.00	EA
23	425-1-MC2	Diversion Box (6 X7)	1.00	EA
24	425-1-MC3	Diversion Box (7 X8)	1.00	EA
25	425-1-MC4	Control Structures (5X5)	2.00	EA
26	425-1-MC5	M.C. Junction Box	2.00	EA
27	425-1-MC6	Concrete Block Box 4' x 5' w/ C.I. Grate	2.00	EA
28	425-1-MC7	Concrete Block Box 4' x 6' w/ C.I. Grate	2.00	EA
29	425-1-MC8	Concrete Block Box 4' x 7' w/ C.I. Grate	3.00	EA
30	425-1-MC9	Concrete Block Box 5' x 7' w/ C.I. Grate	3.00	EA
31	425-1-MC10	Concrete Block Box 6' x 7' w/ C.I. Grate	2.00	EA
32	425-1-MC11	Concrete Block Box 4' x 8' w/ C.I. Grate	1.00	EA
33	425-1-MC12	Concrete Block Box 2' x 2' w/ C.I. Grate	44.00	EA
34	425-1-MC13	M.C. Drop Inlet w/ French Drain	9.00	EA
35	425-1-MC14	M.C. Drop Inlet	7.00	EA
36	425-1-MC15	Baffle Box #1 w/ Upflow Filter & Bold & Gold media	2.00	EA
37	430-174-215	Pipe Culvert, 12" x 18" ERCP	417.00	LF
38	430-174-218	Pipe Culvert, 14" x 23" ERCP	502.00	LF
39	430-174-224	Pipe Culvert, 19" x 30" ERCP	782.00	LF
40	430-174-230	Pipe Culvert, 24" x 38" ERCP	501.00	LF
41	430-174-236	Pipe Culvert, 29" x 45" ERCP	282.00	LF
42	430-175-115	Pipe Culvert, 15" RCP	708.00	LF
43	430-175-115	Pipe Culvert, 15" A2000	1,939.00	LF
44	430-175-118	Pipe Culvert, 18" RCP	256.00	LF
45	430-175-118	Pipe Culvert, 18" A2000	2,054.00	LF
46	430-175-121	Pipe Culvert, 21" A2000	274.00	LF
47	430-175-124	Pipe Culvert, 24" RCP	570.00	LF
48	430-175-124	Pipe Culvert, 24" A2000	1,320.00	LF
49	430-175-130	Pipe Culvert, 30" RCP	1,441.00	LF
50	430-175-130	Pipe Culvert, 30" A2000	1,355.00	LF
51	430-175-136	Pipe Culvert, 36" RCP	925.00	LF
52	430-175-136	Pipe Culvert, 36" A2000	543.00	LF
53	430-175-142	Pipe Culvert, 42" RCP	69.00	LF
54	430-175-148	Pipe Culvert, 48" RCP	219.00	LF
55	430-175-MC1	Pipe Culvert, 10" PVC, Incl. MES	50.00	EA
56	430-880-MC1	30" Check Valve (storm outlet pipe)	8.00	EA
57	430-880-MC2	42" Check Valve (storm outlet pipe)	2.00	EA
58	430-982-123	MES (Cross Drain) 15"	2.00	EA
59	430-982-133	MES (Cross Drain) 30"	3.00	EA
60	430-982-141	MES (Cross Drain) 48"	1.00	EA
61	430-984-123	MES (Side Drain) 15"	1.00	EA
62	430-984-623	MES (Side Drain) (12" x 18")	1.00	EA
63	440-1-10	Underdrain, Type 1, 8" Dia.	1,110.00	LF
64	455-133-3	Steel Sheet Piling, F & T Permanent	360.00	SE
65	615-2-311	Pedestrian / Bicycle Railing, Aluminum, 42" Type 1	310.00	LF
66	620-2-MC1	Type A Miami Curb & Gutter	185.00	LF
67	620-2-4	Concrete Curb, Type D	1,015.00	EA
68	622-1	4" Concrete Sidewalk	4,000.00	SY
69	622-2	6" Concrete Sidewalk	4,440.00	SY
70	622-MC1	Brick Paver Drive (Incl. Base Course)	600.00	SY
71	622-2	Concrete Curb, Type D	38.00	EA
72	630-3-4	Riprap, Rubble, F & T, Ditch Lining	38.00	TN
73	650-10-220	Fencing, Type B, 5.1-6.0', Standard Features	1,013.00	LF
74	650-60-212	Fence Gate, Type B, Single, 6'-12" Opening	2.00	EA
75	670-1-2	Sodding (Performance Turf Bahia)	24,000.00	SY
76	670-1-MC1	Tree Protection	40.00	EA
77	670-1-MC2	Replant Trees (Up to 6" Caliper)	20.00	EA
78	700-1-11	Single Post Sign, F & T GM < 12 SF	2.00	AS
79	700-1-50	Single Post Sign (Relocate)	5.00	AS
80	711-11-123	Thermoplastic (Standard) (White) (Solid) (12")	820.00	LF
81	711-11-125	Thermoplastic (Standard) (White) (Solid) (24")	160.00	LF
LINE NO. ITEM NO. DESCRIPTION EST QTY U/M				
U1		12" DIP (CL 350) Water Main	20	LF
U2		8" DIP (CL 350) Water Main	50	LF
U3		6" DIP (CL 350) Water Main	270	LF
U4		4" DIP (CL 350) Water Main	260	LF
U5		6" PVC DR-18 C900	460	LF
U6		4" PVC DR-18 C900	80	LF
U7		12" & Smaller PVC Pipe Restraints	1	LS
U8		12" & Smaller D.I. Pipe Restraints	1	LS
U9		12" & Smaller Existing Pipe Restraints	1	LS
U10		8" Gate Valve for Water Main, MJ	3	EA
U11		6" Gate Valve for Water Main, MJ	14	EA
U12		4" Gate Valve for Water Main, MJ	2	EA
U13		Adjust Gate Valve to grade	2	EA
U14		Relocate Water Meter	38	EA
U15		Extend & Adjust Water Service	48	EA
U16		Install New Backflow Preventer	38	EA
U17		Install Single Water Service, Long Side	4	EA
U18		Install Single Water Service, Short Side	5	EA
U19		Install Double Water Service, Long Side	2	EA
U20		Install Double Water Service, Short Side	1	EA
U21		12" - 45 degree MJ bend	4	EA
U22		8" - 45 degree MJ bend	2	EA
U23		6" - 45 degree MJ bend	40	EA
U24		4" - 45 degree MJ bend	21	EA
U25		6" - 22.5 degree MJ bend	4	EA
U26		4" - 22.5 degree MJ bend	4	EA
U27		6" - 11.25 degree MJ bend	2	EA
U28		8" x 8" Tee MJ	1	EA
U29		8" x 6" Tee MJ	3	EA
U30		8" x 4" Tee MJ	1	EA
U31		8" x 6" Reducer	1	EA
U32		8" x 4" Reducer	1	EA
U33		6" x 4" Reducer	1	EA
U34		6" Cross MJ	1	EA
U35		12" PVC to DI Adapter	2	EA
U36		8" PVC to DI Adapter	3	EA
U37		6" PVC to DI Adapter	22	EA
U38		4" PVC to DI Adapter	8	EA
U39		Miscellaneous Concrete	4	CY
U40		Asphalt Road Restoration (Base & Resurface)	400	SY
U41		Mobilization (% of Water Sub total)	0.00%	
U42		Contract Contingency (% of Water subtotal)	0.00%	
U43		Re-Connect Sewer Service	60	EA
U44		Adjust Cleanout to Grade	1	EA
U45		Install New Clean Out	14	EA
U46		Proposed Sanitary Sewer Manhole	1	EA
U47		8 Inch SDR 26 Gravity Sewer	133	LF
U48		Modify Existing Sanitary Sewer Manhole	3	EA
U49		Asphalt Road Restoration (Base & Resurface)	375	SY
U50		Mobilization (% of Sewer Sub total)	0.00%	
U51		Contract Contingency (% of Sewer subtotal)	0.00%	

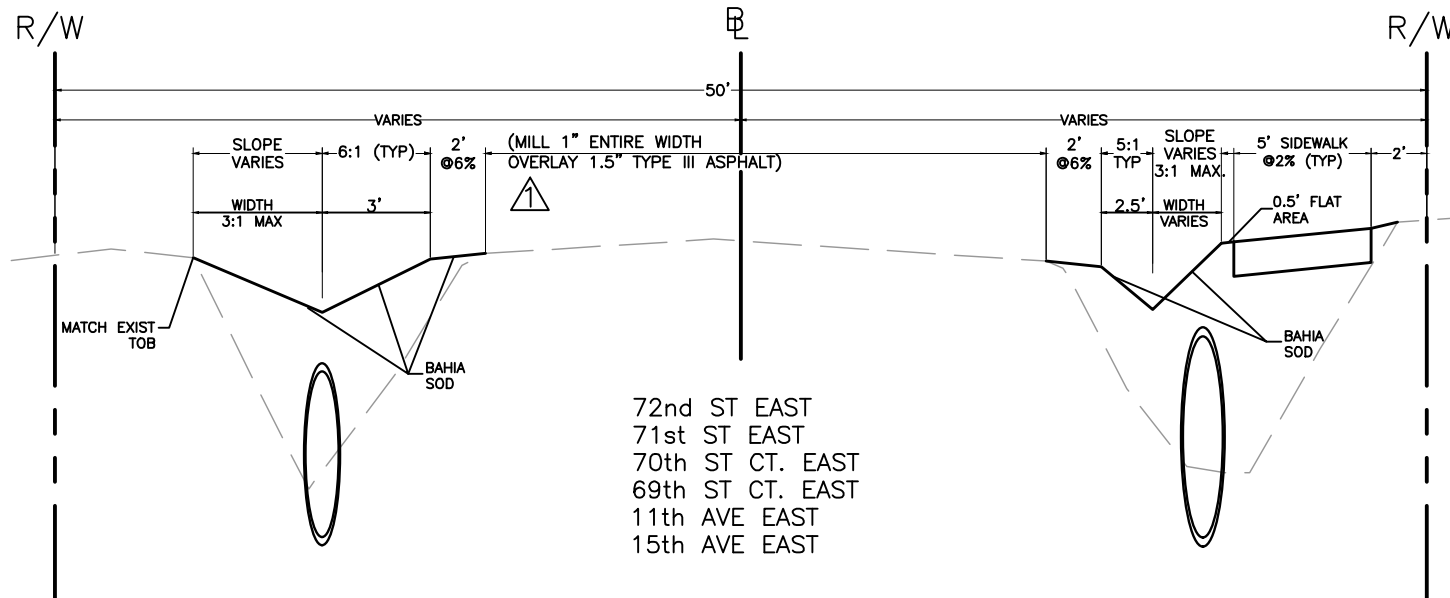
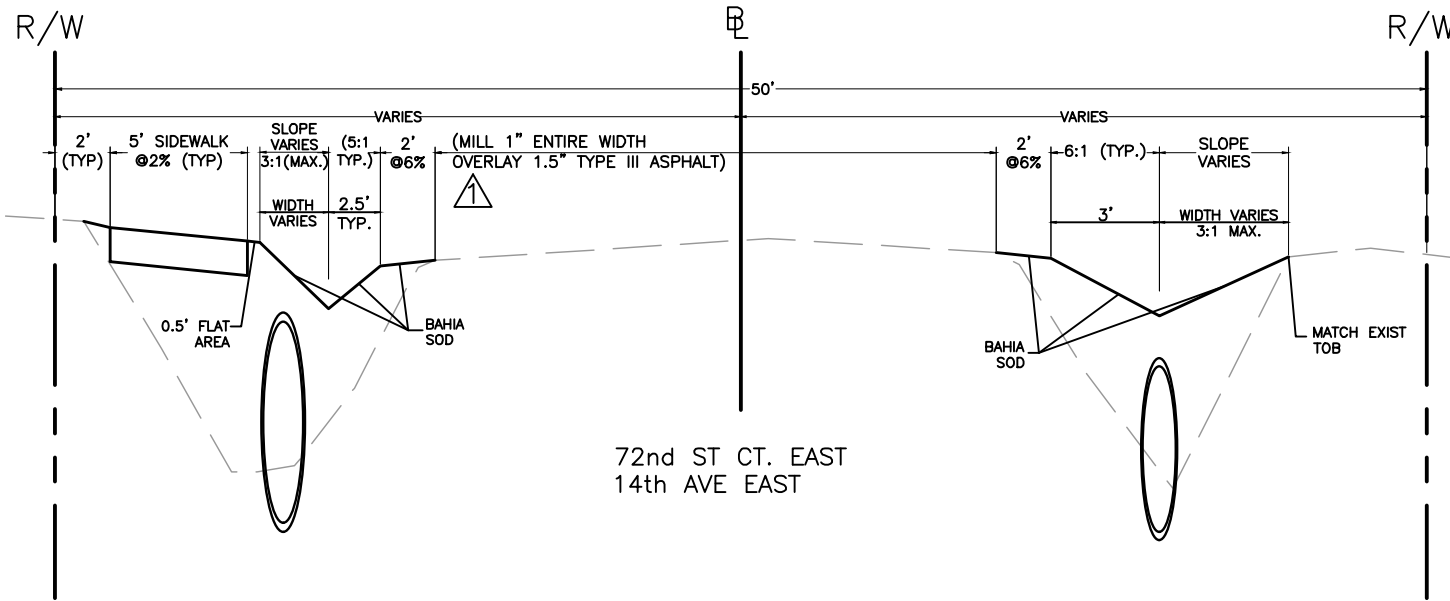
DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	03/08/18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

JOHN PARI, P.E.
FLORIDA P.E. # 56368
 Signature & Date



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

DRAINAGE REHABILITATION
RUBONIA
SUMMARY OF QUANTITIES



TEST HOLE	UTILITY	FIELD MARKING	GROUND EL.	TOP OF PIPE EL.	NOTES PER REPORT	
TH-06	STA 1004+29	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.68	3.88	0.20	FND 6" WATER MAIN
TH-07	STA 1004+75	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -2.81	4.09	1.28	FND 6" WATER MAIN
TH-08	STA 1009+26	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -4.85	3.22	-1.63	FND 10" FORCE MAIN
TH-09	STA 1009+60	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -4.17	3.12	-1.05	FND 10" FORCE MAIN
TH-10	STA 1009+32	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.11	3.33	0.22	FND 6" WATER MAIN
TH-11	STA 1009+60	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -2.50	2.31	-0.19	FND 6" WATER MAIN
TH-12	STA 1013+20	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -3.30	3.50	0.20	FND 10" FORCE MAIN
TH-13	STA 1015+20	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -3.96	4.30	0.34	FND 10" FORCE MAIN
TH-14	STA 1016+75	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -6.40	5.43	-0.97	FND 10" FORCE MAIN
TH-15	STA 1016+79	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.91	5.36	1.45	FND 6" WATER MAIN
TH-16	STA 1017+10	4" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.58	5.26	1.68	FND 4" WATER MAIN
TH-17	STA 1019+30	4" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -2.45	4.75	2.30	FND 4" WATER MAIN
TH-18	STA 1217+48	10" FORCE MAIN	FOUND HUB AT GRN LEVEL CUT -6.14	5.90	-0.24	FND 10" FORCE MAIN
TH-19	STA 603+50	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.12	3.67	0.55	FND 6" WATER MAIN
TH-20	STA 604+37	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -4.36	3.90	-0.46	FND 6" WATER MAIN
TH-21	STA 604+75	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -4.40	3.83	-0.57	FND 6" WATER MAIN
TH-22	STA 605+70	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -2.96	3.38	0.42	FND 6" WATER MAIN
TH-23	STA 607+27	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.41	2.50	-0.91	FND 6" WATER MAIN
TH-24	STA 609+40	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -4.59	2.76	-1.83	FND 6" WATER MAIN
TH-25	STA 802+03	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.69	3.63	-0.06	FND 6" WATER MAIN
TH-26	STA 802+38	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -4.12	4.21	0.09	FND 6" WATER MAIN
TH-27	STA 804+27	4" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.35	4.01	0.66	FND 4" WATER MAIN
TH-28	STA 203+22	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -4.84	2.70	-2.14	FND 6" WATER MAIN
TH-29	STA 205+32	6" WATER MAIN	FOUND HUB AT GRN LEVEL CUT -3.15	2.90	-0.25	FND 6" WATER MAIN

TEST HOLE	UTILITY	FIELD MARKING	GROUND EL.	TOP OF PIPE EL.	NOTES PER REPORT	
TH-01	STA 1205+00	12" PVC WATER	FOUND HUB AT GRN LEVEL CUT -4.08	5.13	1.05	FND 12" PVC WATER
TH-02	STA 1208+66	12" PVC WATER	FOUND HUB AT GRN LEVEL CUT -3.63	4.73	1.10	FND 12" PVC WATER
TH-03	STA 1212+50	12" PVC WATER	FOUND HUB AT GRN LEVEL CUT -3.35	4.91	1.56	FND 12" PVC WATER
TH-04	STA 1214+15	12" PVC WATER	FOUND HUB AT GRN LEVEL CUT -2.97	4.82	1.85	FND 12" PVC WATER
TH-05	STA 1219+00	12" PVC WATER	FOUND HUB AT GRN LEVEL CUT -3.15	5.85	2.70	FND 12" PVC WATER

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JOHN PARI, P.E.
FLORIDA P.E. # 56368



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

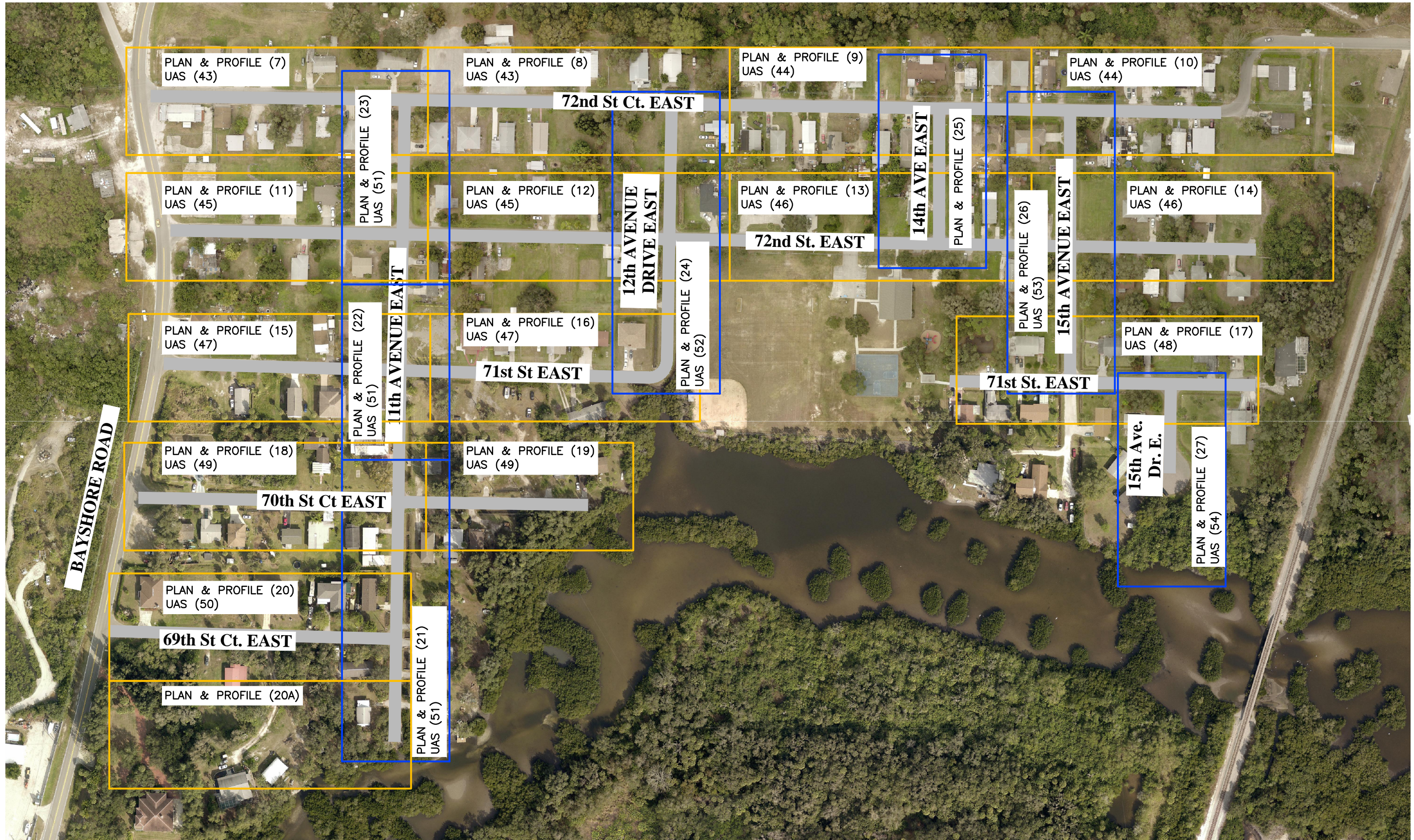
**DRAINAGE REHABILITATION
RUBONIA
TYPICAL SECTIONS**

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	03/08/18
	Addendum # 1 (Rev. Milling & Overlay Depths)	6/18/20	304-6093460	DESIGNED	XXX	XX/XXXX
			25/33S/17E	DRAWN	KHL	03/13/18
			N.T.S.	CHECKED	XXX	XX/XXXX

Signature & Date

SHEET NO.

03



DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	03/08/18
			304-6093460	DESIGNED	XXX	XX/XXXX
			0577-0036	DRAWN	KHL	03/13/18
			25/33S/17E	CHECKED	XXX	XX/XXXX
			N.T.S.			

JOHN PARI, P.E.
 FLORIDA P.E. # 56368

Signature & Date



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

*DRAINAGE REHABILITATION
 RUBONIA
 PROJECT LAYOUT*

57. ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
58. STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. STATION LOCATION IS CENTER OF STRUCTURE BOTTOM FOR JUNCTION BOXES, CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "F" AS SHOWN IN FDOT INDEX 272 AND 273. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED CONTINGENT.
59. ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
60. DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, WETLAND SYSTEMS, TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.

RESTORATION

61. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
62. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
63. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE CUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO MANATEE COUNTY PUBLIC WORKS STANDARDS. THE MINIMUM LENGTH OF CURB RESTORATION IS 10 FEET.
64. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
65. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

66. 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 ABBATEMENT BARRIERS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
67. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEP DAILY AS PART OF DAILY CLEAN UP.
68. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
69. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
70. PRIOR APPROVAL WILL BE REQUIRED FOR REMOVAL OF ANY TREE WITHIN THE CONSTRUCTION AREA, UNLESS OTHERWISE NOTED ON THE PLANS.
71. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO DISTRICT FOR APPROVAL PRIOR TO CONSTRUCTION.
72. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
73. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS. REFER TO DETAIL SHEET FOR ALL REFERENCE POINTS.
74. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
75. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
76. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
77. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
78. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 6" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
79. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
80. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
81. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
82. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
83. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
84. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
85. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.

86. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
87. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
88. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS NOTED OTHERWISE.
89. THE EXISTING STORM DRAINAGE STRUCTURES SHALL BE REMOVED UNLESS NOTED OTHERWISE.
90. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.
91. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO MANATEE COUNTY PUBLIC WORKS STANDARDS.
92. IF EXISTING SEAWALL TIE-BACKS ARE ENCOUNTERED DURING POND EXCAVATION, THE CONTRACTOR SHALL CONTACT MANATEE COUNTY.

UTILITIES

92. 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. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION.
93. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
94. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
95. ANY TEMPORARY SHUTDOWNS FOR MODIFICATIONS OF EXISTING UTILITY SYSTEMS THAT MUST REMAIN IN SERVICE DURING CONSTRUCTIONS SHALL BE KEPT TO A MINIMUM AND SHALL BE COORDINATED WITH AND APPROVED BY THE MANATEE COUNTY UTILITY OPERATIONS DEPARTMENT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. IT IS NOTED THAT TEMPORARY SHUTDOWNS MAY BE RESTRICTED TO CERTAIN HOURS AT ANY TIME OF THE DAY OR NIGHT AND WILL BE COMPLETED AT NO ADDITIONAL COST TO THE OWNER.
96. 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.

**VERTICAL DATUM
NAVD 88**

EMERGENCY CONTACTS

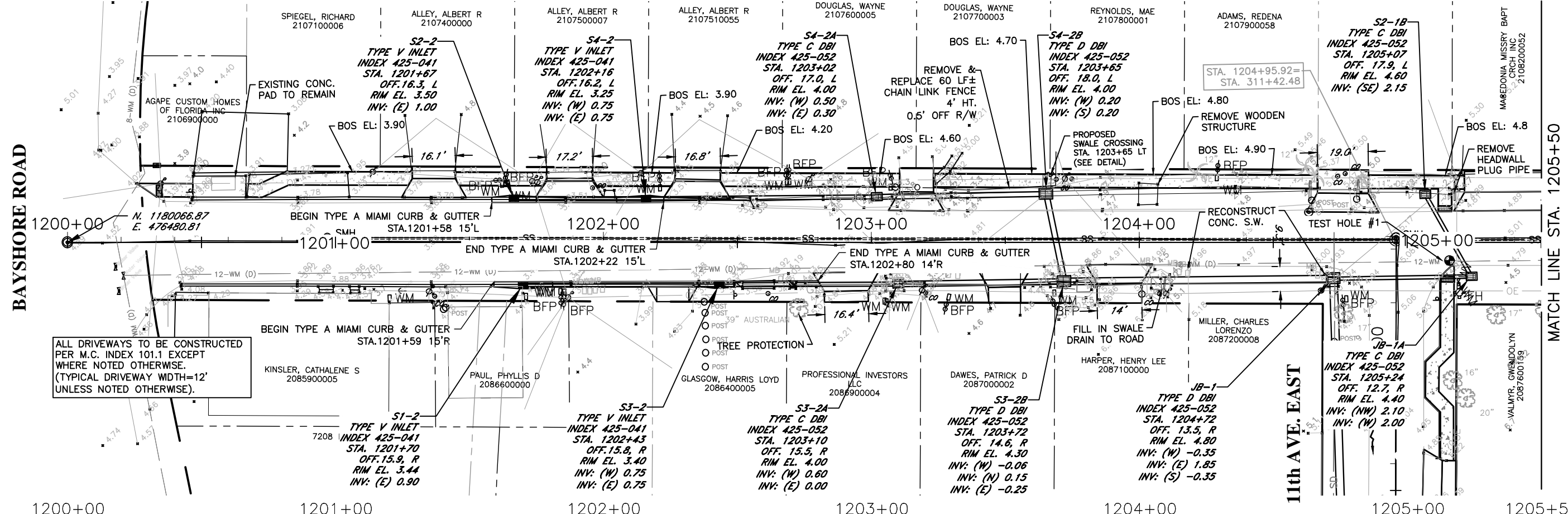
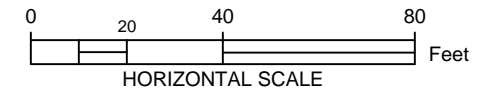
- | | | | |
|---|--|---|--|
| <p>MANATEE COUNTY
PUBLIC WORKS DEPT.
INFRASTRUCTURE ENGINEERING
SCOTT MAY, P.E.
1022 26TH AVENUE EAST
BRADENTON, FL 34208
(941) 708-7450 EXT. 7850
FAX: (941) 708-7431</p> <p>TECO/PEOPLES GAS CO.
DAN SHANAHAN
826 WCO COURT
SARASOTA, FL 34240
(941) 342-4030
FAX: (941) 342-4011
EMERGENCY: 1-877-832-6911
dshanahan@tecoenergy.com</p> <p>SUNSHINE STATE ONE CALL OF
FLORIDA
1-(800) 432-4770</p> <p>FRONTIER COMMUNICATIONS
DENISE HUTTON
1701 RINGLING BLVD.
SARASOTA, FL 34238
(941) 330-9203
denise.hutton@frit.com</p> | <p>FLORIDA POWER & LIGHT
DISTRIBUTION
GREG COKER
1253 12TH AVENUE EAST
PALMETTO, FL 34221
(941) 723-4430
FAX: (941) 723-4444
EMERGENCY: 1-800-4-OUTAGE
Greg.Coker@fpl.com</p> <p>FLORIDA POWER & LIGHT
TRANSMISSION
DALIANA AMADOR
15430 ENDEAVOR DRIVE
JUPITER, FL 33478
(941) 904-3665
Gary.n.peterson@fpl.com</p> <p>MANATEE COUNTY HEALTH DEPT.
HANS C. ROESE
410 6TH AVENUE EAST
BRADENTON, FL 34208
(941) 748-0747 EXT. 1342
FAX: (941) 750-9364
hans_roese@doh.state.fl.us</p> <p>CROWN CASTLE UTILITY COMPANY
LOUIS A. SIMONE
4511 N HIMES AVE #210
TAMPA, FL 33614
(941) 579-8956
lastimone@ccomm.com</p> | <p>SOUTHWEST FLORIDA WATER
MANAGEMENT DISTRICT
SARASOTA SERVICE OFFICE
STEVE LOPES, P.E.
6750 FRUITVILLE ROAD
SARASOTA, FL 34240
(941) 377-3722
FAX: (941) 373-7660</p> <p>FLORIDA GAS TRANSMISSION
SAFETY HARBOR TEAM
7804 ANDERSON RD.
TAMPA, FL 33634
CHRIS LEE
(941) 466-3327
CELL : (727) 639-7512
christopher.lee@sup.com</p> <p>MANATEE COUNTY HEALTH DEPT.
JAMES CRUZAN
5413 E. STATE ROAD 64
BRADENTON, FL 34208
(941) 748-3816 EXT. 24051
james.cruzan@choter.com</p> <p>MCJ FIBER COMMUNICATIONS
BLACK & VEATCH / OVERLAND
CONTRACTING
GREG REES
5206 EAGLE TRAIL DRIVE
TAMPA, FL 33607
(813) 207-7909
rees@bv.com</p> | <p>DEPARTMENT OF ENVIRONMENTAL
PROTECTION
ED WATSON
13051 N. TELECOM PKWY
TEMPLE TERRACE, FL 33637
PHONE: (813) 470-5875
FAX: (813) 470-5993</p> <p>PEACE RIVER ELECTRIC
COOPERATIVE, INC.
P.O. BOX 1310
WACHULA, FL 33873
DAVID MCCLINTOCK
KENDELL COKER
(863) 767-4622
(863) 767-4660
david.mcclintock@preco.coop
kendell.coker@preco.coop</p> <p>MANATEE COUNTY
PUBLIC WORKS DEPT.
TRAFFIC ENGINEERING
MUKUNDA GOPALAKRISHNA, P.E.
(941) 749-3500 EXT. 7813
FAX: (941) 749-3571</p> |
|---|--|---|--|

LEGEND

<p>EXISTING</p> <p>EM ⊕ BENCH MARK CM • CONCRETE MONUMENT IP ○ IRON PIPE IR ○ IRON ROD HUB △ HUB N&D • NAIL & DISK ELEVATION PARCEL ID NO. LOT NO. GW ↖ GUY WIRE PP ⊙ POWER POLE LP ○ LIGHT POLE MB □ MAIL BOX SN ⊓ SIGN REF ↗ REFLECTOR SPRK ⊙ SPRINKLER GM ⊙ GAS MARKER BFP ⊖ BACKFLOW PREVENTER BO ⊖ BLOW OFF VALVE FH ⊙ FIRE HYDRANT WV ⊖ WATER VALVE ARV ⊖ AIR RELEASE VALVE WM ⊙ WATER METER SMH ⊖ SANITARY SEWER MANHOLE SBS#1 ⊖ SANITARY SEWER CLEAN OUT TEL ⊖ TELEPHONE SERVICE BOX UTILITY BOX UTILITY RISER FLOW DIRECTION GI ⊖ GRATE INLET MITERED END SECTION STORM SEWER MANHOLE</p>	<p>PROPOSED</p> <p>MAIN SERVICE LINE PROPOSED EASEMENT FIRE HYDRANT VALVE SANITARY SEWER MANHOLE BLOW OFF ASSEMBLY REDUCER TEE HORIZONTAL BEND VERTICAL BEND PLUG MASTER METER ASSEMBLY SERVICE LINE & METER DOUBLE SERVICE</p>
<p>BUSH TREE OAK TREE PALM TREE PINE TREE</p> <p>EDGE OF VEGETATION CHAIN LINK FENCE WOOD FENCE BARBED WIRE FENCE FORCE MAIN POTABLE WATER RECLAIMED WATER SANITARY SEWER STORM DRAIN GAS LINE OVERHEAD TV UNDERGROUND TV OVERHEAD ELECTRIC UNDERGROUND ELECTRIC OVERHEAD VERIZON UNDERGROUND VERIZON VERIZON UNDERGROUND UTILITY OVERHEAD UTILITY RAIL ROAD TRACKS EDGE OF CONCRETE EDGE OF ROAD TOE OF SLOPE TOP OF BANK PROPERTY LINE RIGHT OF WAY</p>	<p>ABBREVIATIONS</p> <p>R/W RIGHT OF WAY CONC CONCRETE ASPH ASPHALT DRWY DRIVEWAY SWK SIDEWALK EP EDGE OF PAVEMENT BOC BACK OF CURB</p>

DATE		DESCRIPTION		DATE		PROJECT #		304-6093460		SURVEYED		FDC 03/08/18		<p>JOHN PARI, P.E. FLORIDA P.E. # 56368</p> <p> Manatee County Florida</p> <p>PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208</p> <p>Signature & Date</p>	<p>DRAINAGE REHABILITATION RUBONIA GENERAL NOTES & LEGEND CONTINUED</p>	SHEET NO. 06
						SURVEY #		0577-0036		DESIGNED		XXX XX/XXXX				
						SEC./TWN./RGE		25/33S/17E		DRAWN		KHL 03/13/18				
						SCALE				CHECKED		XXX XX/XXXX				

72nd ST. CT. EAST



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date



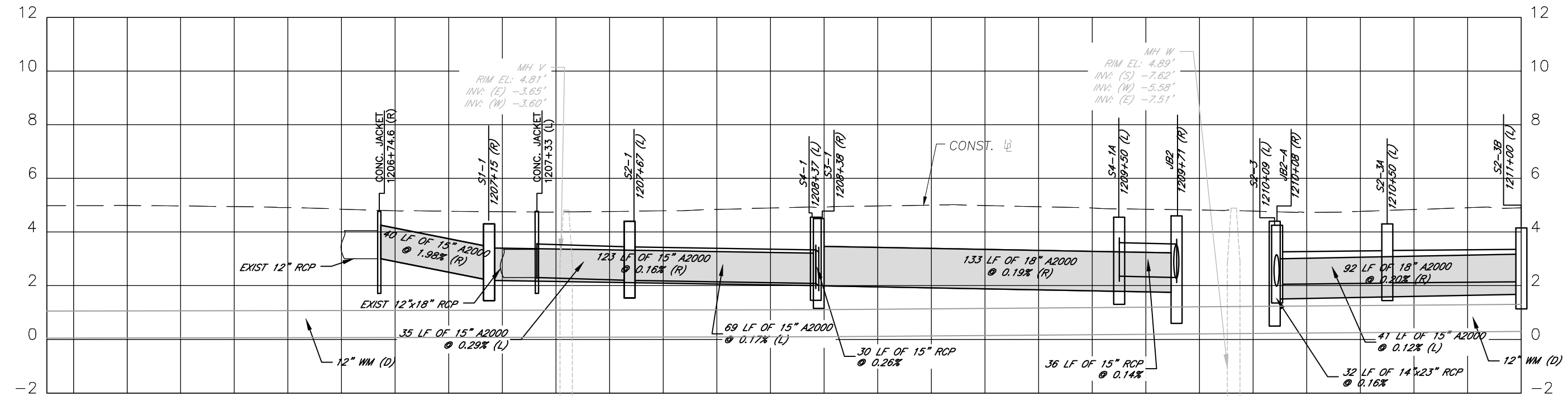
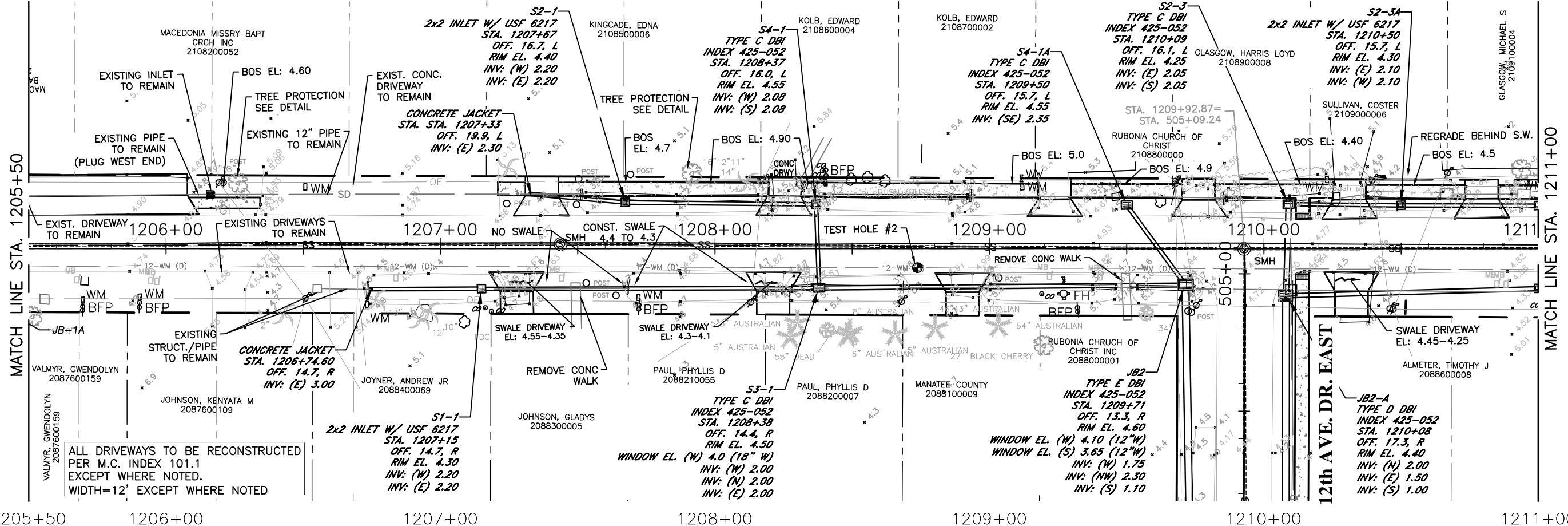
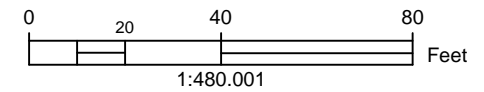
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 72nd STREET COURT EAST
 PLAN & PROFILE

SHEET NO.
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\\bcvdfsipwd..._Engineering_Share\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 3/28/2020 5:12 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

72nd ST. CT. EAST




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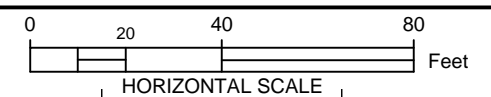
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JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

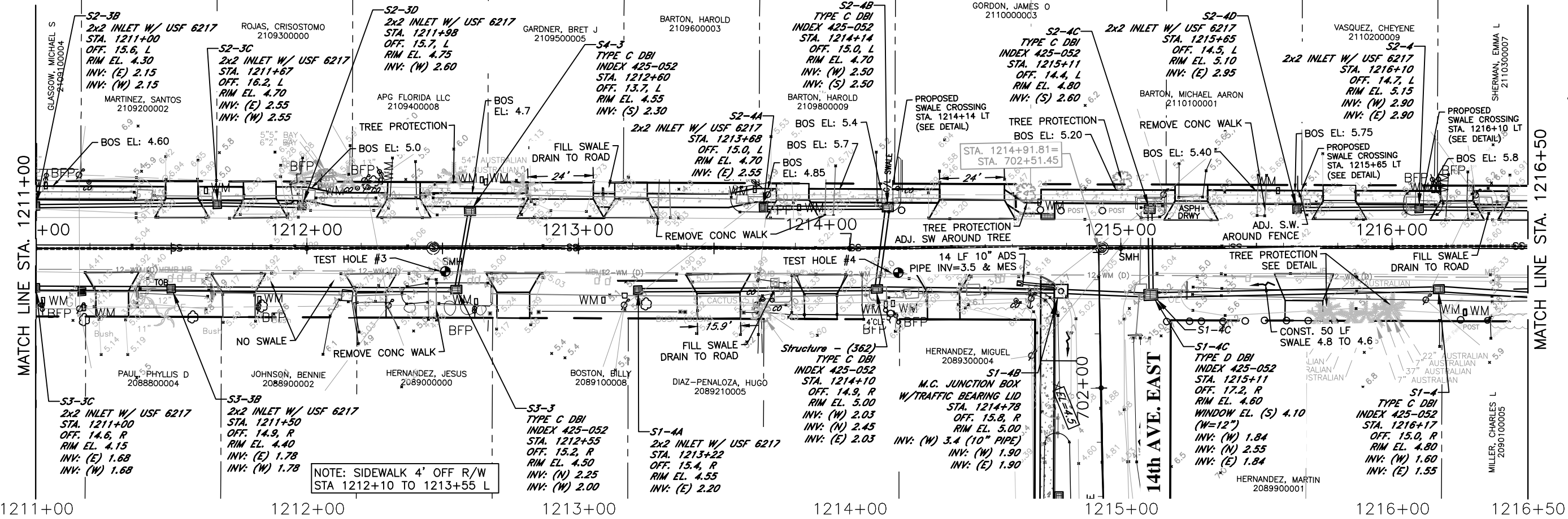


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RUBONIA
 72nd STREET COURT EAST
 PLAN & PROFILE



72nd ST. CT. EAST



ELEVATIONS BASED UPON NAVD 1988

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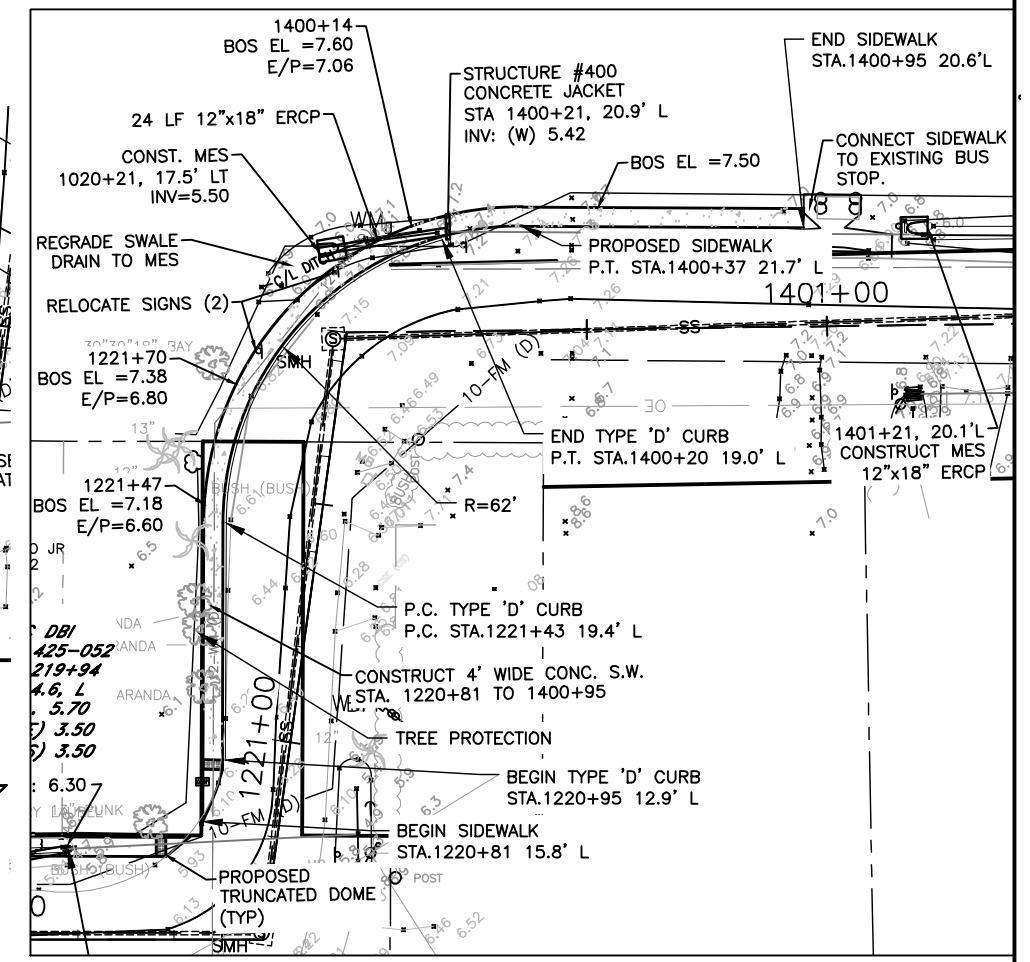
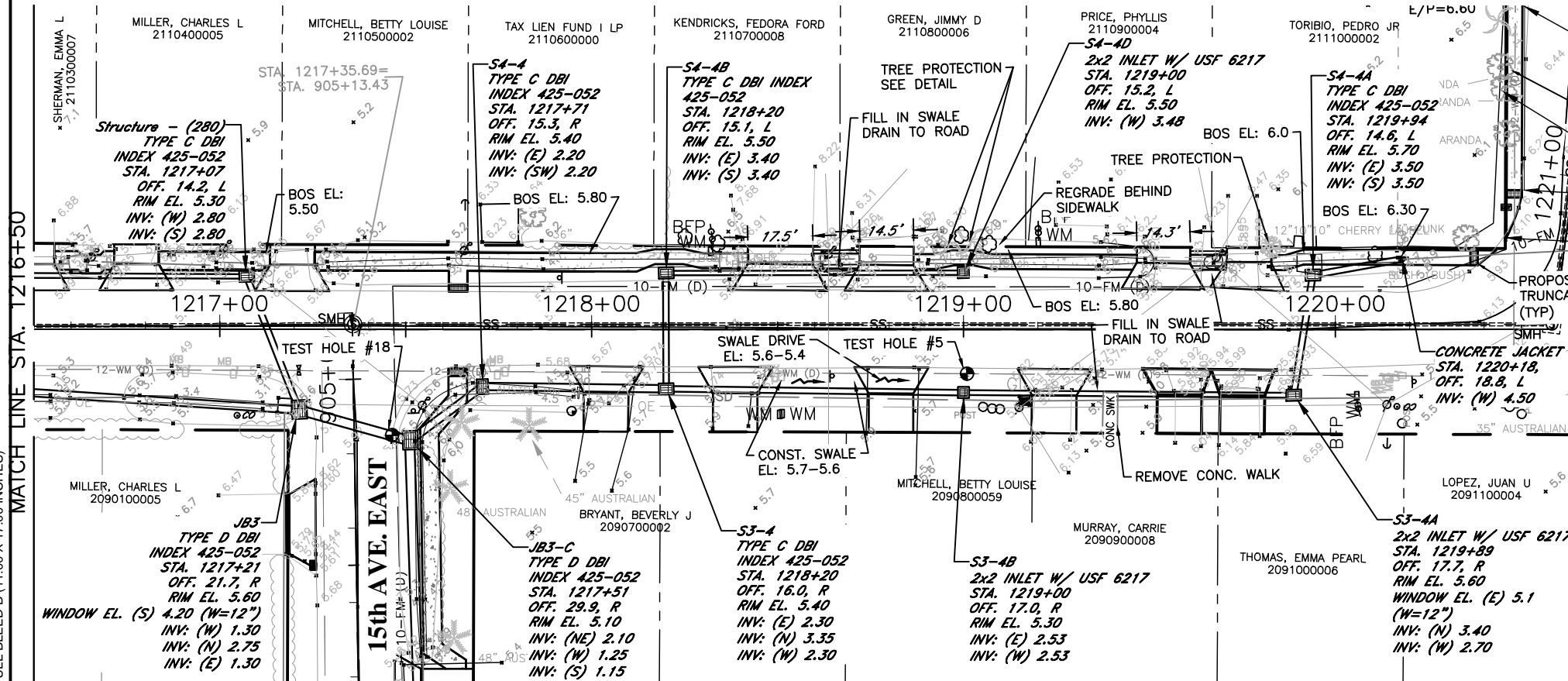
JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

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 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

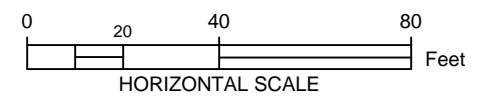
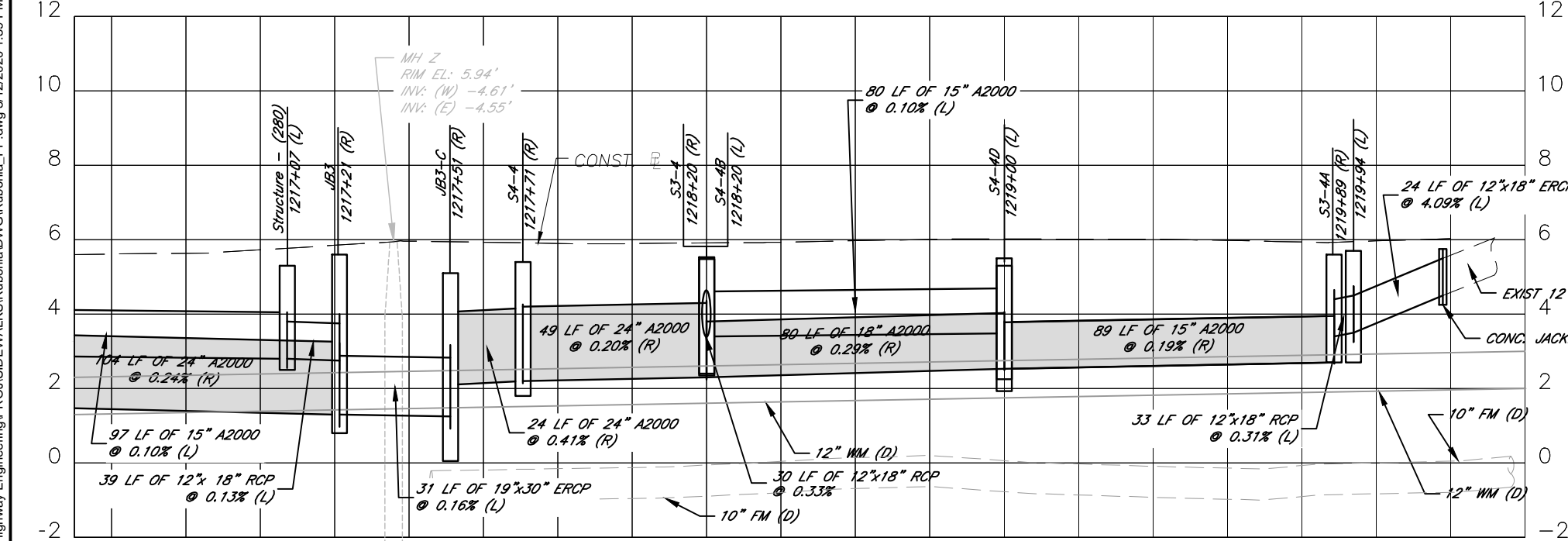
RUBONIA
 72nd STREET COURT EAST
 PLAN & PROFILE

SHEET NO.
 09

72nd ST. CT. EAST



216+50 1217+00 1218+00 1219+00 1220+00 1220+40



STA: 1218+17 TO 1220+40 LT
SIDEWALK WIDTH=4'

SIDEWALK 1' OFF R/W AT STATIONS
STA. 1218+20 LT; STA. 1219+00 LT;
STA. 1219+94 LT

ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
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			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
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JOHN PARI
FLORIDA P.E. # 56368

Signature & Date

Manatee County
FLORIDA

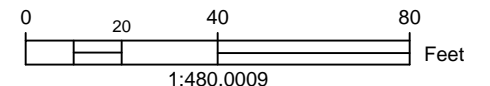
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
72nd STREET COURT EAST
PLAN & PROFILE

SHEET NO.
10

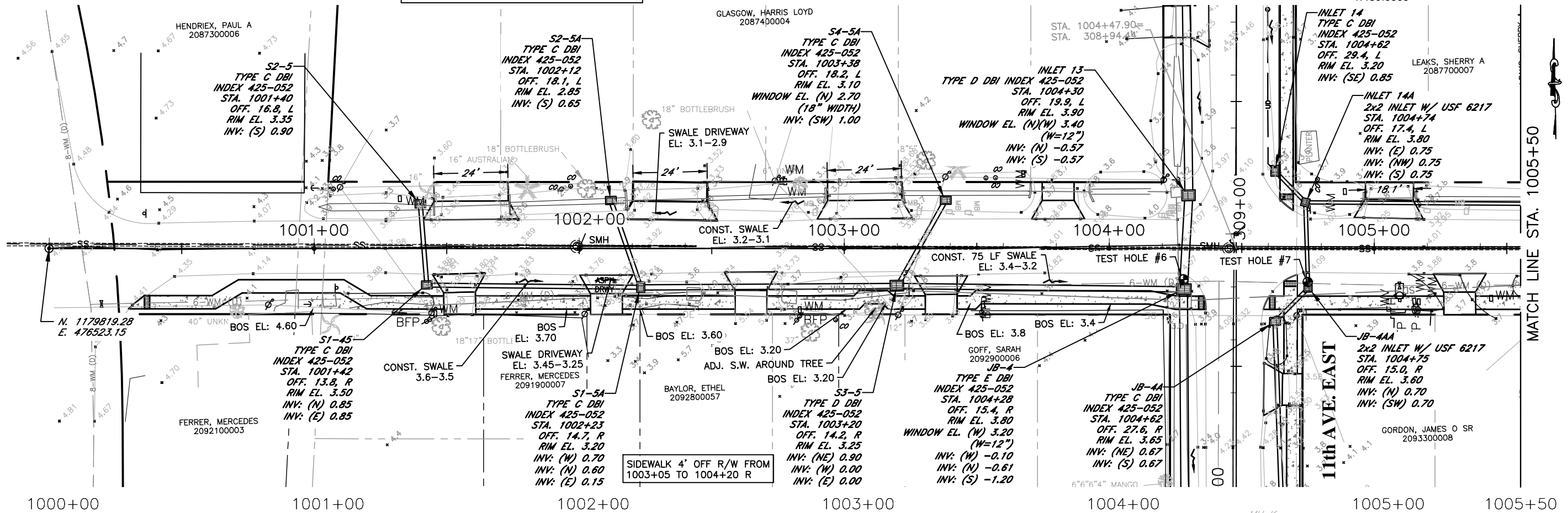
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72nd ST. EAST

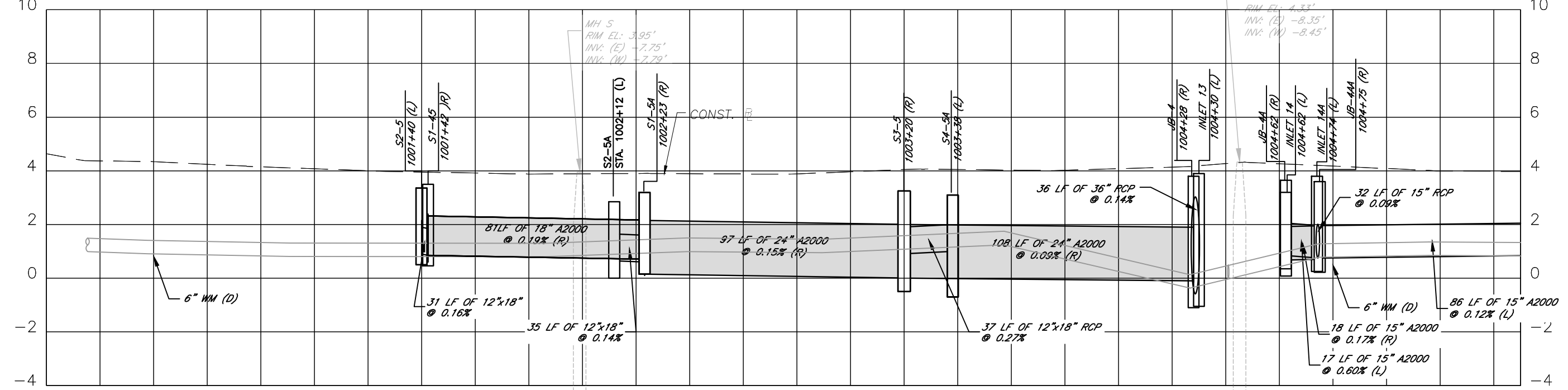


BAYSHORE ROAD

MATCH LINE STA. 1005+50



1000+00 1001+00 1002+00 1003+00 1004+00 1005+00 1005+50



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

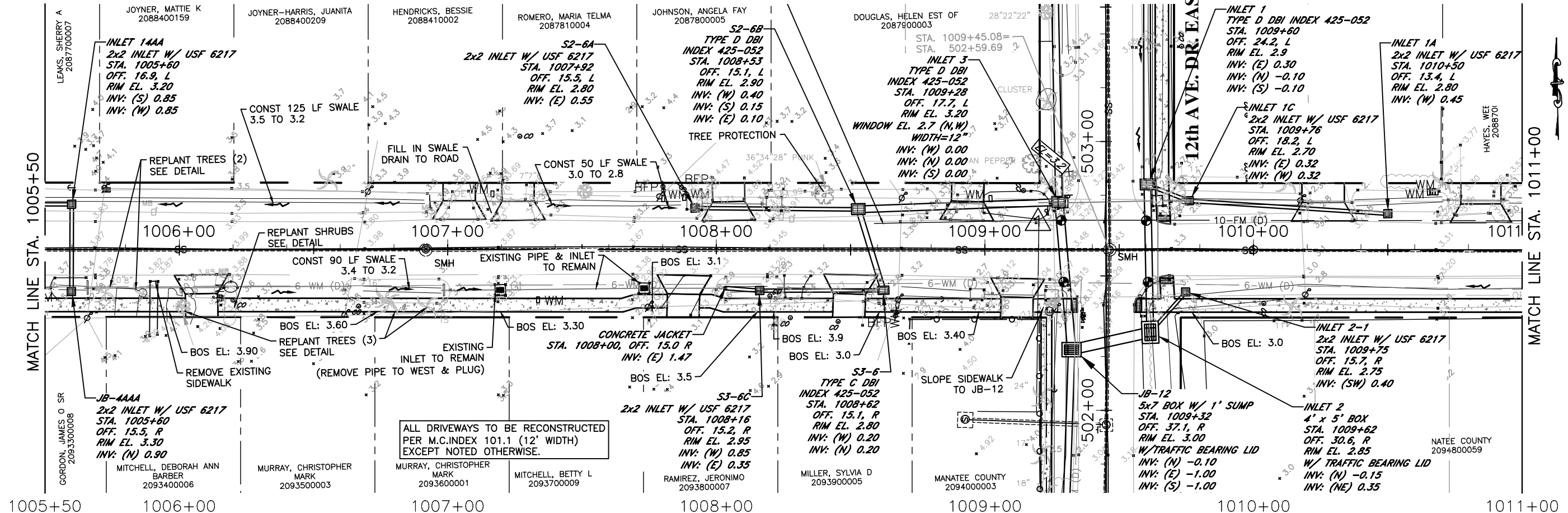
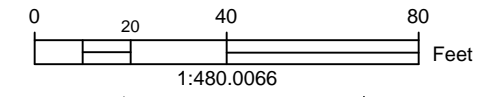
RUBONIA
72nd STREET EAST
PLAN & PROFILE

SHEET NO.
11

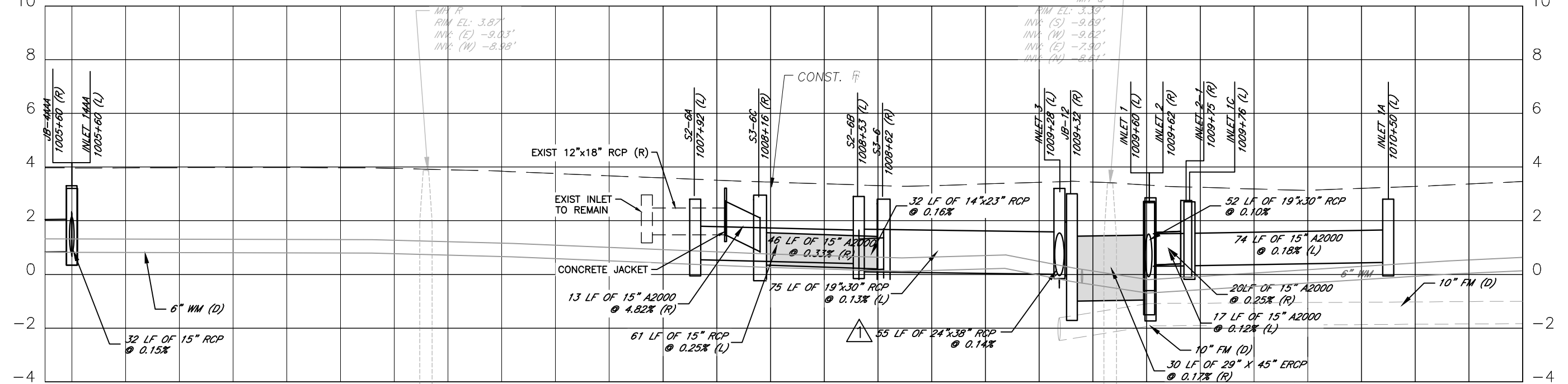
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72nd ST. EAST



ALL DRIVEWAYS TO BE RECONSTRUCTED PER M.C.INDEX 101.1 (12' WIDTH) EXCEPT NOTED OTHERWISE.



ELEVATIONS BASED UPON NAVD 1988

DATE		DESCRIPTION		DATE		PROJECT #		SURVEYED		FDC		4-11-18	
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						25/33S/17E		DRAWN		KHL		06/2018	
						SCALE		1"=40'		CHECKED		XXX XX/XXXX	

JOHN PARI
FLORIDA P.E. # 56368

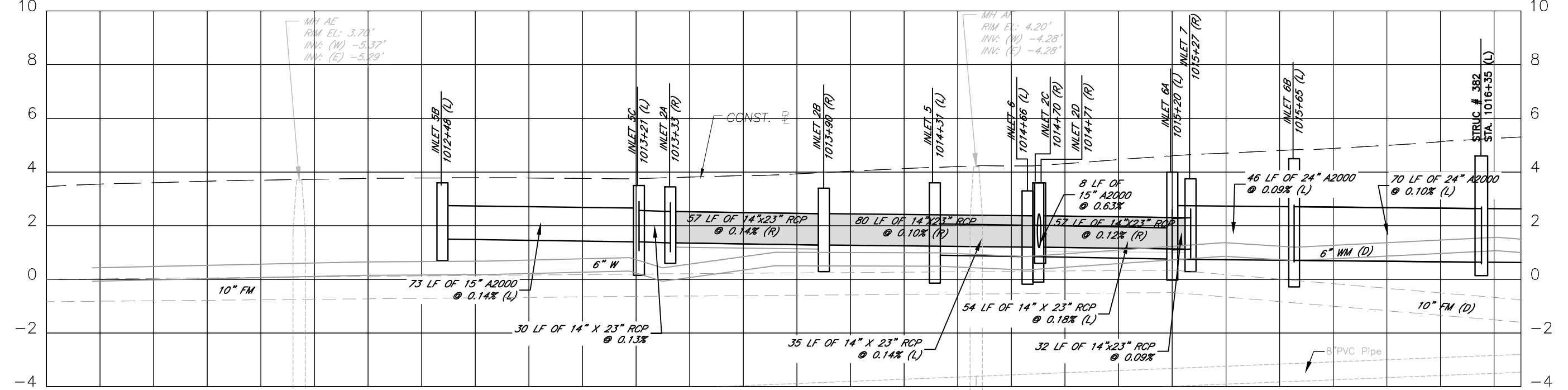
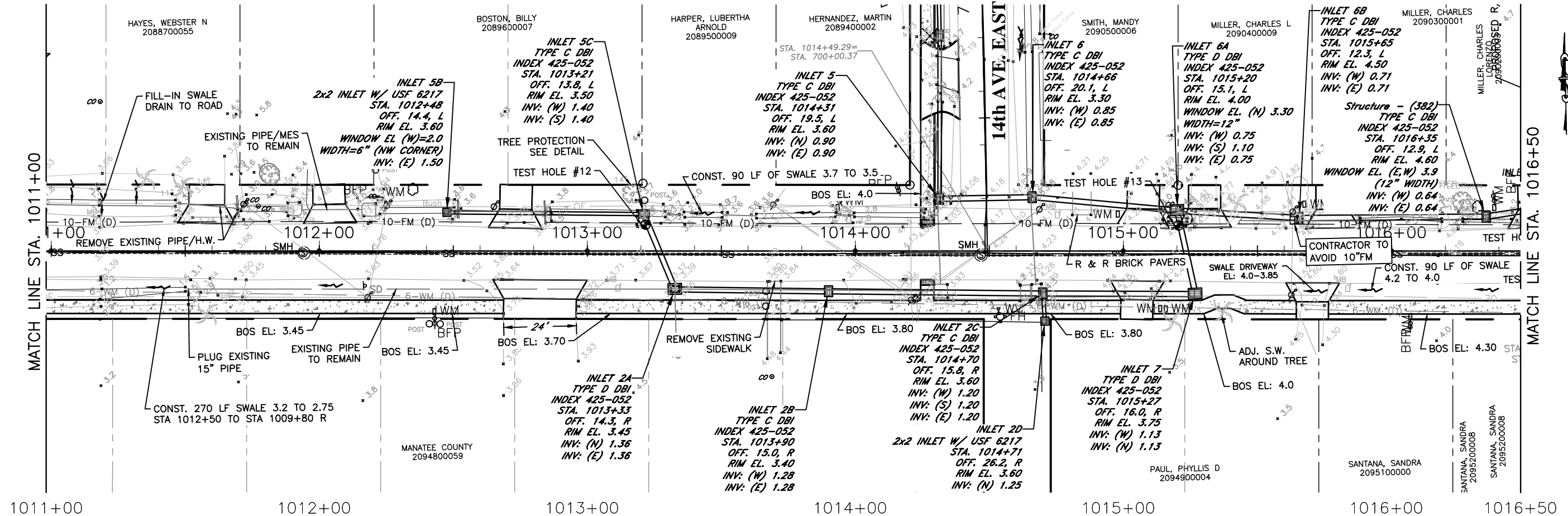
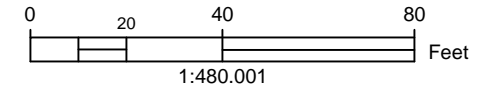
Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
72nd STREET EAST
PLAN & PROFILE

SHEET NO.
12

72nd ST. EAST




ELEVATIONS BASED UPON NAVD 1988

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DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
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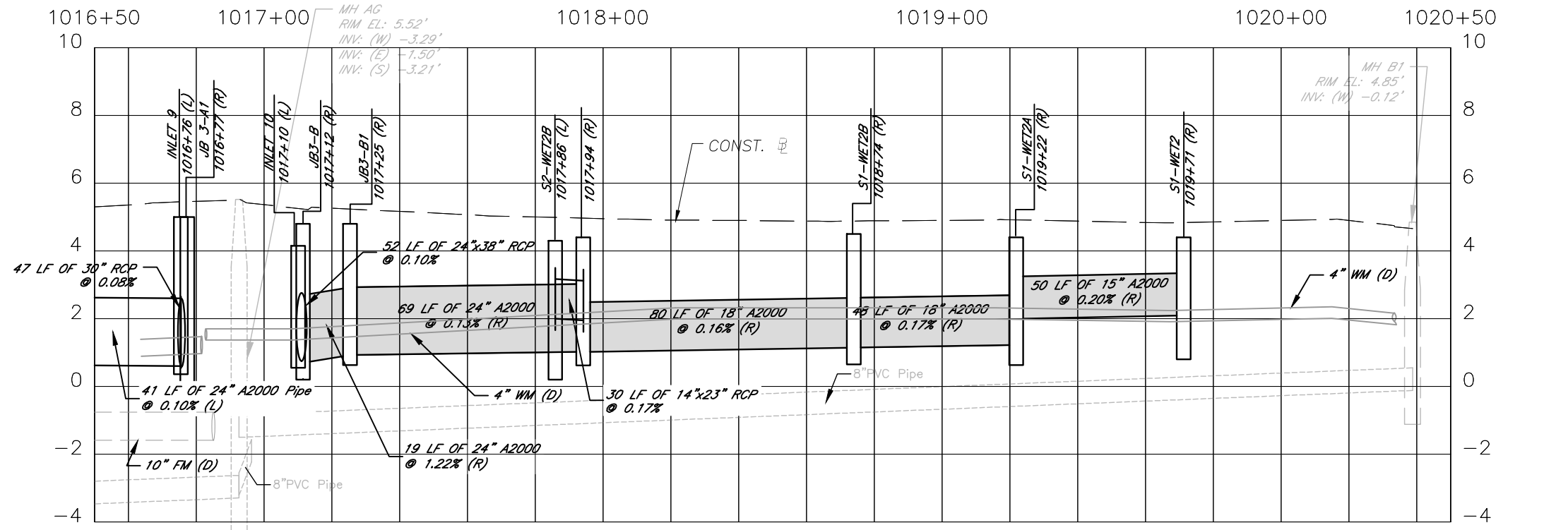
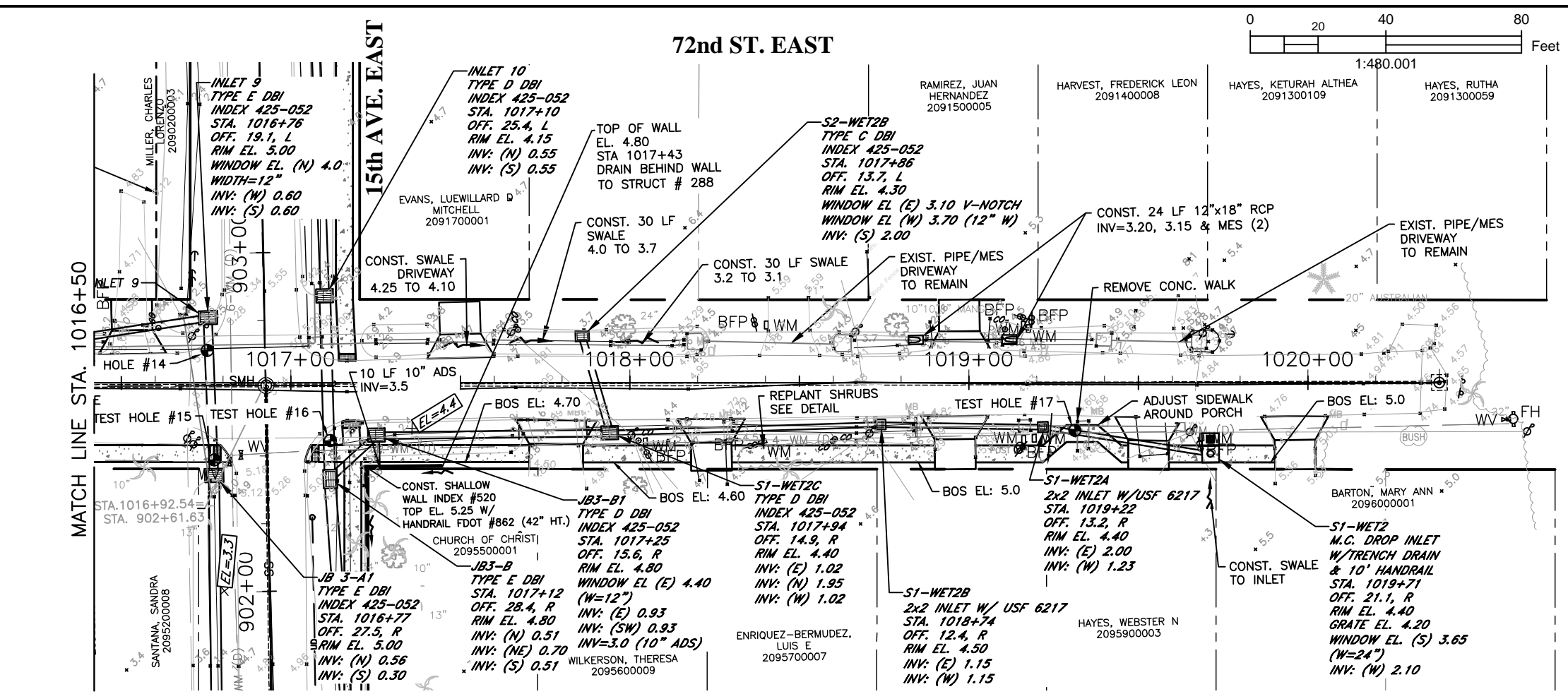
JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date



PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 72nd STREET EAST
 PLAN & PROFILE

\\bcs\dfs\p\w\dwg\Highway_Engineering_Share\Highway_Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 4/6/2020 4:49 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
 FLORIDA P.E. # 56368

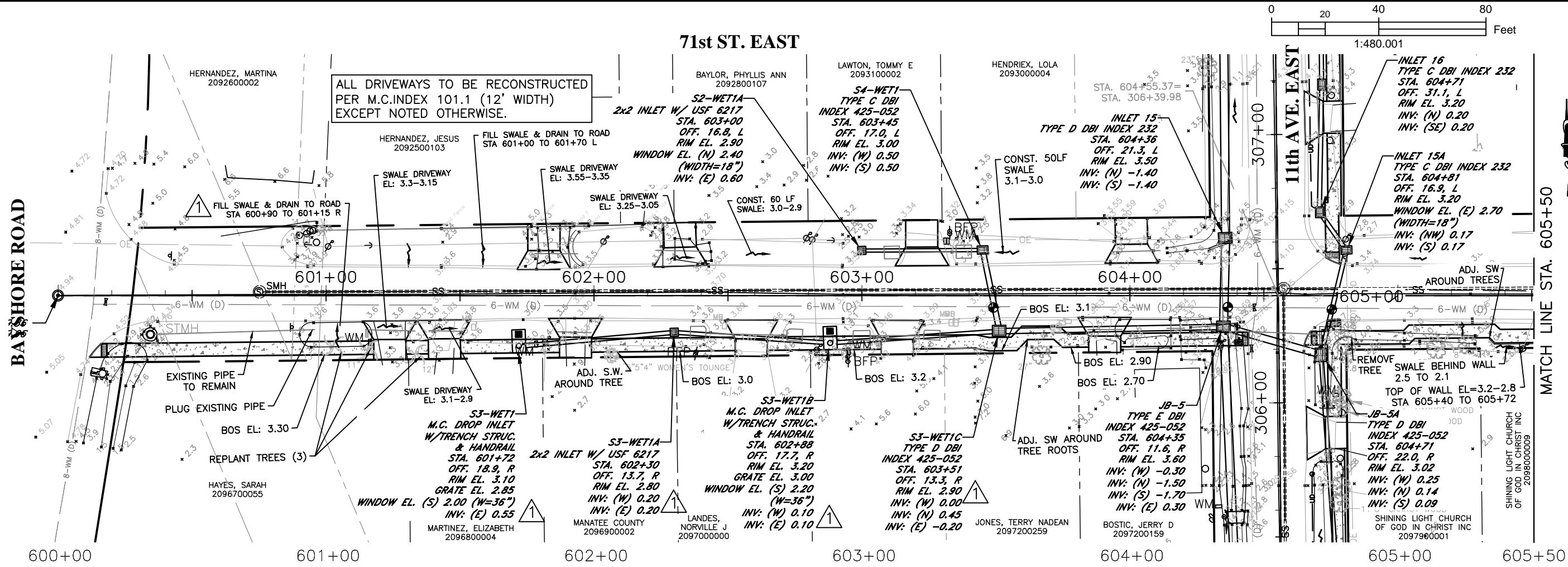
Signature & Date

Manatee County
 FLORIDA

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 72nd STREET EAST
 PLAN & PROFILE

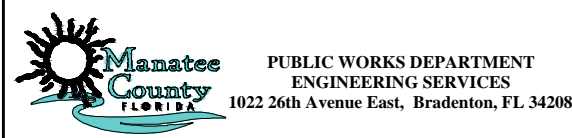
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ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460			
			SURVEY #	0577-0036	DESIGNED	JKP 06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL 06/2018
			SCALE	1"=40'	CHECKED	XXX XX/XXXX

JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

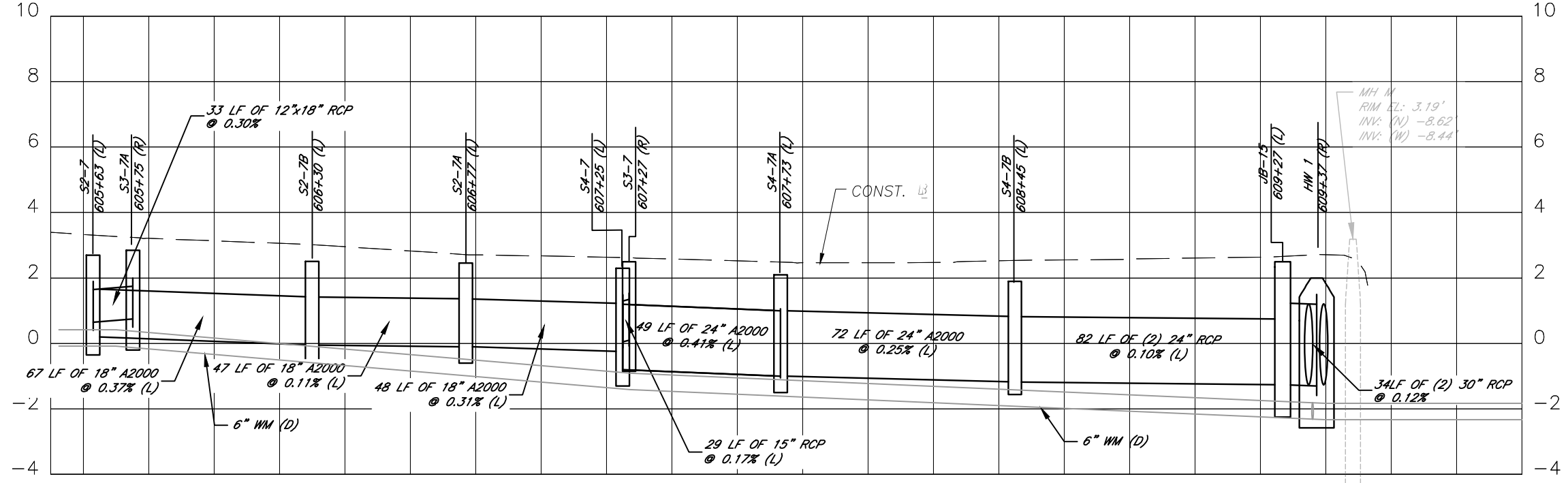
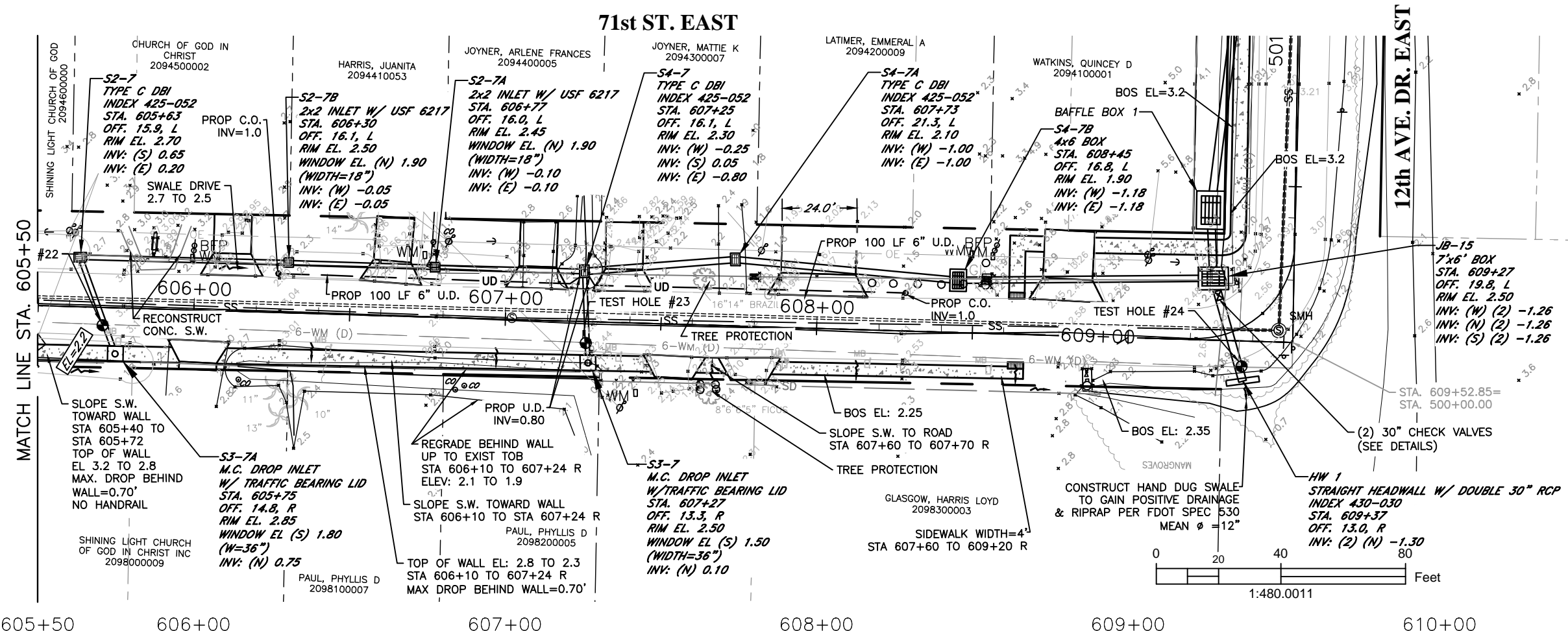


RUBONIA
 71st STREET EAST
 PLAN & PROFILE

SHEET NO. 15

\\boc\dfs\pvd_engineering_share\Highway Engineering\PROJECTS\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 4/5/2020 4:08 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

71st ST. EAST



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date

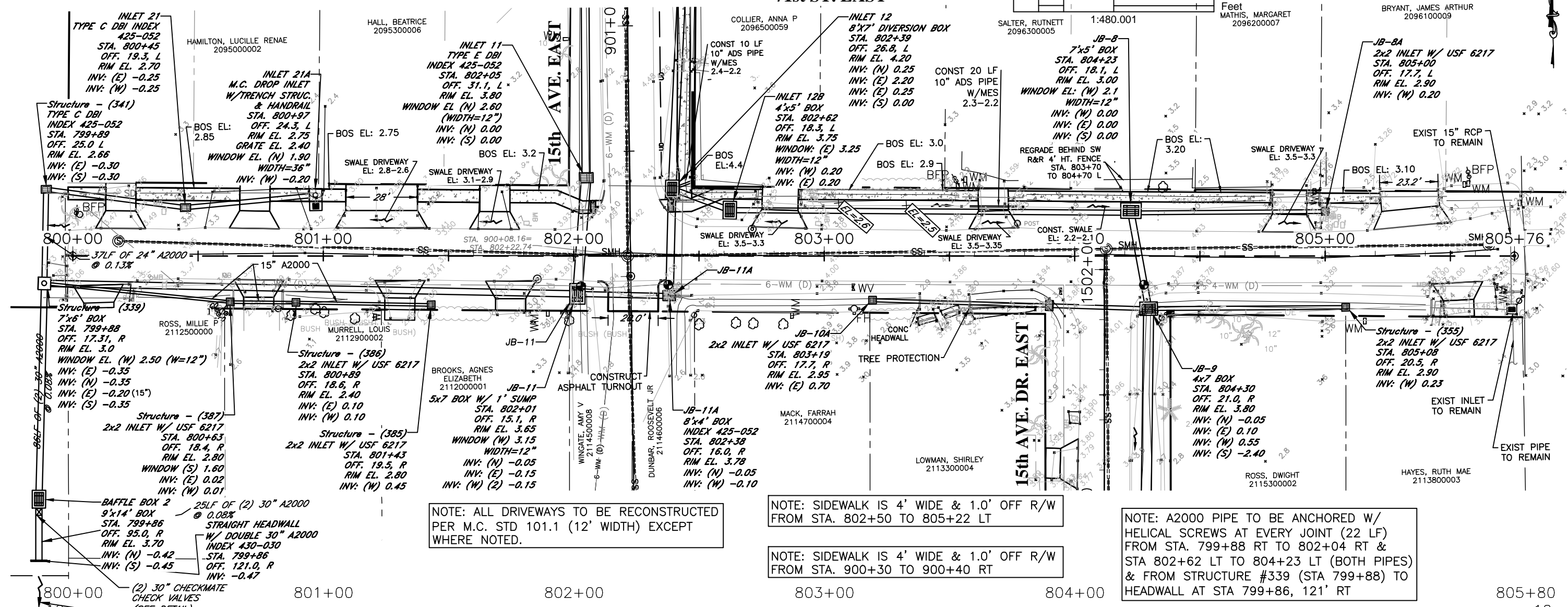
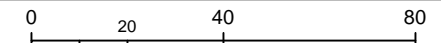


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
71st STREET EAST
PLAN & PROFILE

SHEET NO.
16

71st ST. EAST

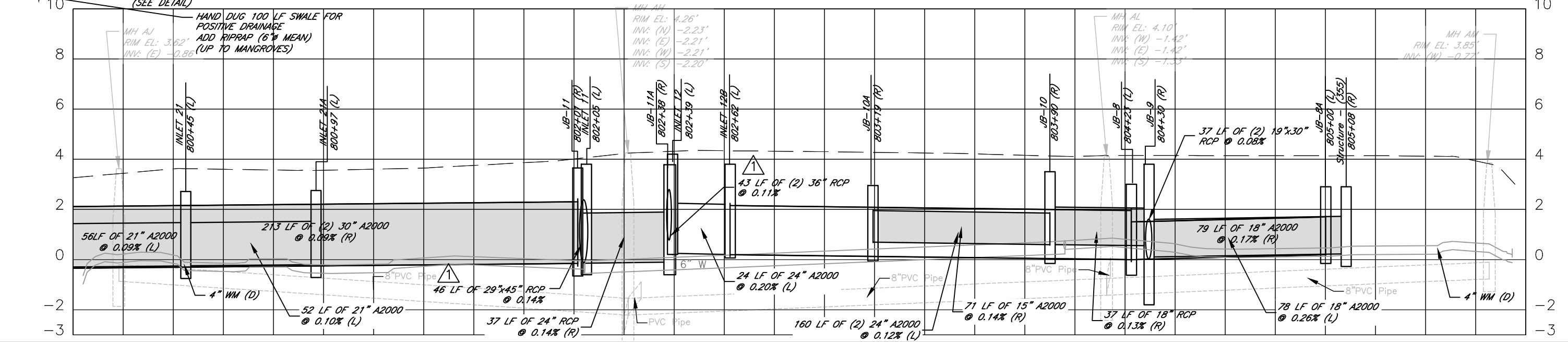


NOTE: ALL DRIVEWAYS TO BE RECONSTRUCTED PER M.C. STD 101.1 (12' WIDTH) EXCEPT WHERE NOTED.

NOTE: SIDEWALK IS 4' WIDE & 1.0' OFF R/W FROM STA. 802+50 TO 805+22 LT

NOTE: SIDEWALK IS 4' WIDE & 1.0' OFF R/W FROM STA. 900+30 TO 900+40 RT

NOTE: A2000 PIPE TO BE ANCHORED W/ HELICAL SCREWS AT EVERY JOINT (22 LF) FROM STA. 799+88 RT TO 802+04 RT & STA 802+62 LT TO 804+23 LT (BOTH PIPES) & FROM STRUCTURE #339 (STA 799+88) TO HEADWALL AT STA 799+86, 121' RT



DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460	JKP	06/2018	
			0577-0036	KHL	06/2018	
			25/335/17E	XXX	XX/XXXX	
			1"=40'			

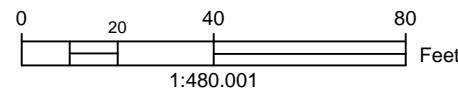
JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
71st STREET EAST
PLAN & PROFILE
SHEET NO. 17

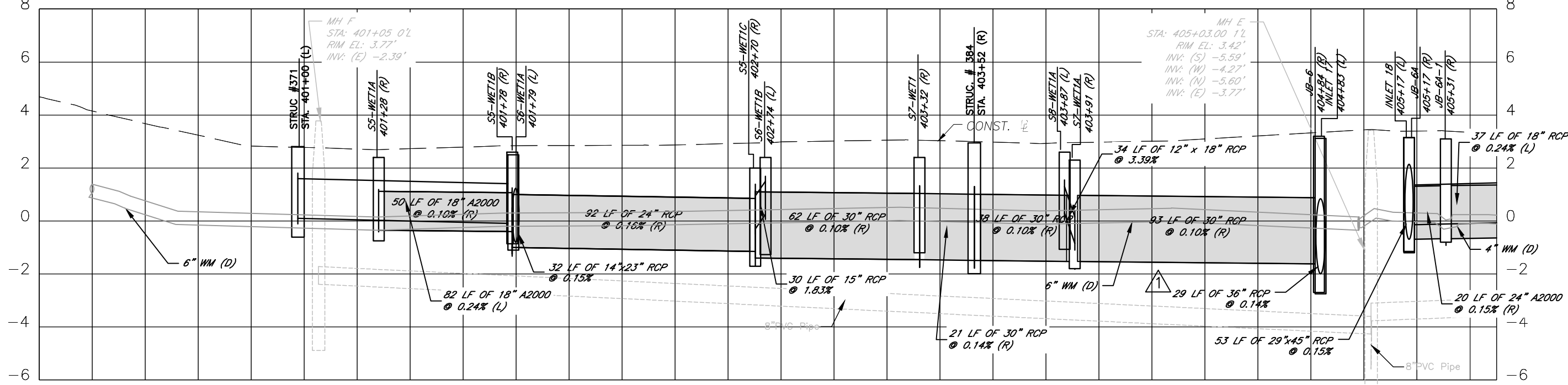
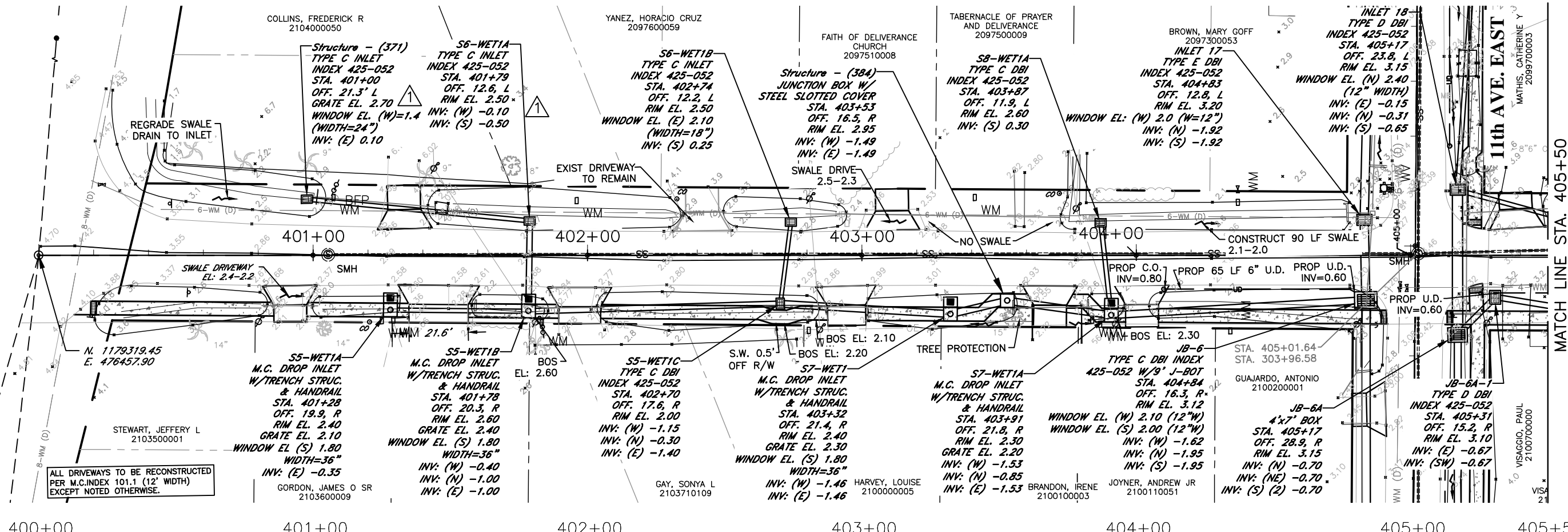
H:\Highway Engineering\PROJ\SIDE WALKS\RUBONIA\DWG\RUBONIA_PP.dwg 6/25/2020 12:22 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

70th ST. CT. EAST



BAYSHORE ROAD

MATCH LINE STA. 405+50



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

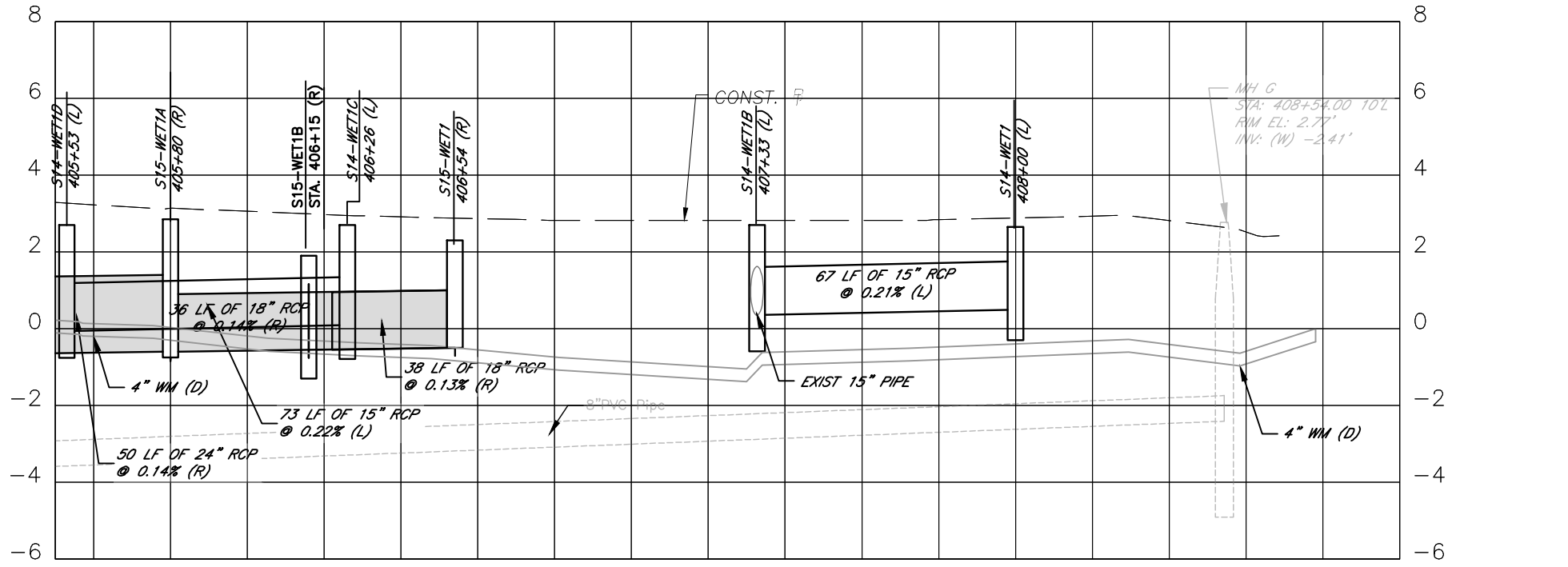
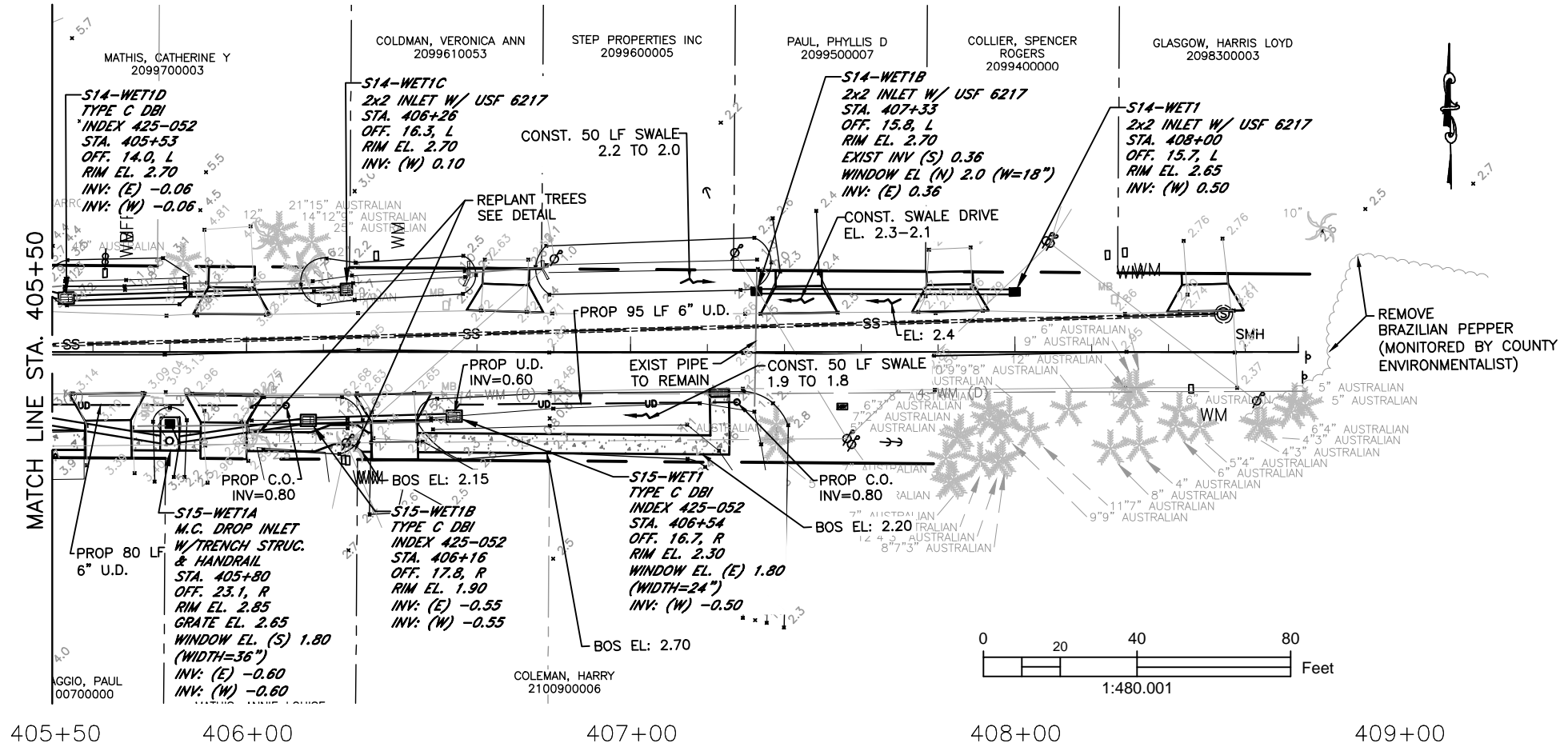
Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
70th STREET COURT EAST
PLAN & PROFILE

SHEET NO.
18

70th ST. CT. EAST



ELEVATIONS BASED UPON NAVD 1988

\\boc\dfs\pvd..._Share\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 3/12/2020 2:02 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

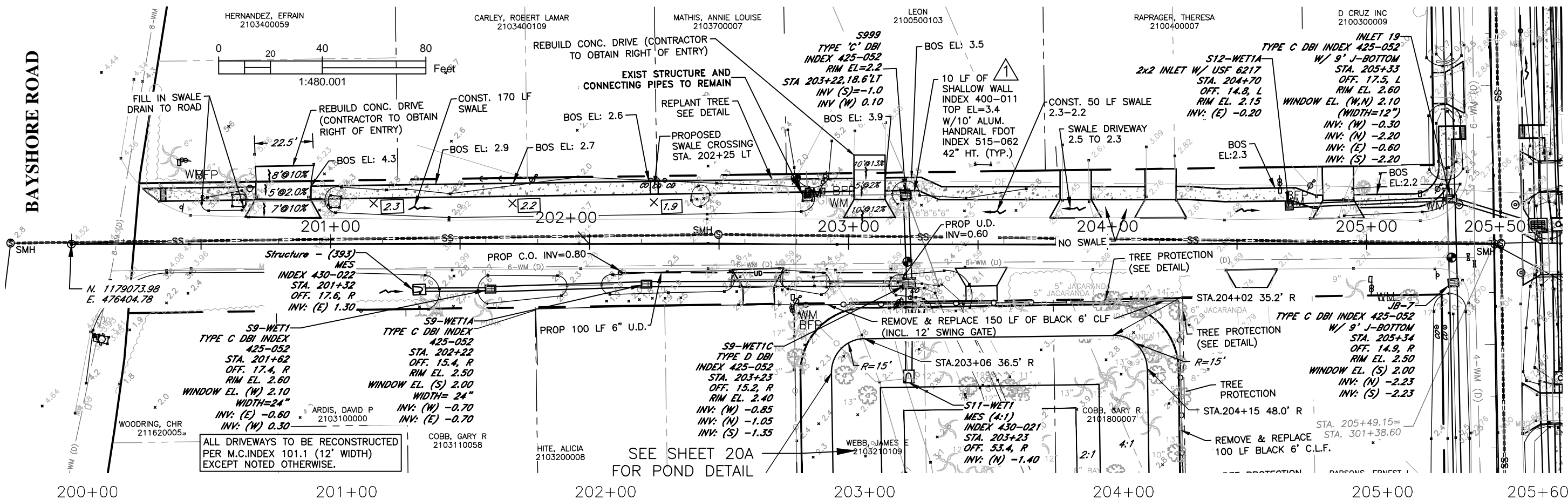
RUBONIA
70th STREET COURT EAST
PLAN & PROFILE

SHEET NO.
19

69th ST. CT. EAST

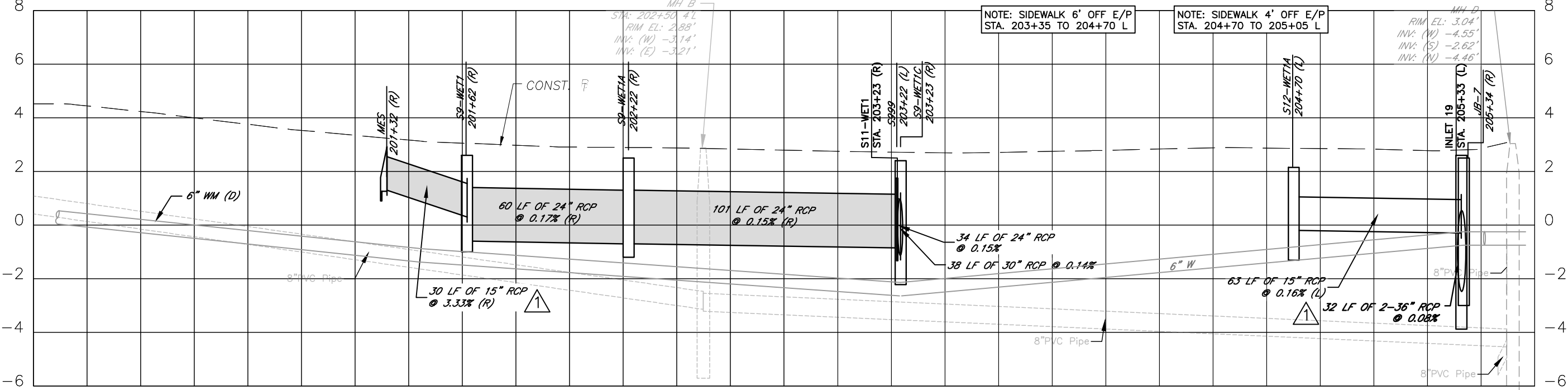
BAYSHORE ROAD

11th AVE. EAST



ALL DRIVEWAYS TO BE RECONSTRUCTED PER M.C. INDEX 101.1 (12' WIDTH) EXCEPT NOTED OTHERWISE.

SEE SHEET 20A FOR POND DETAIL



NOTE: SIDEWALK 6' OFF E/P STA. 203+35 TO 204+70 L

NOTE: SIDEWALK 4' OFF E/P STA. 204+70 TO 205+05 L

ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368



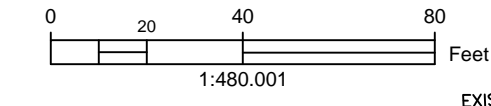
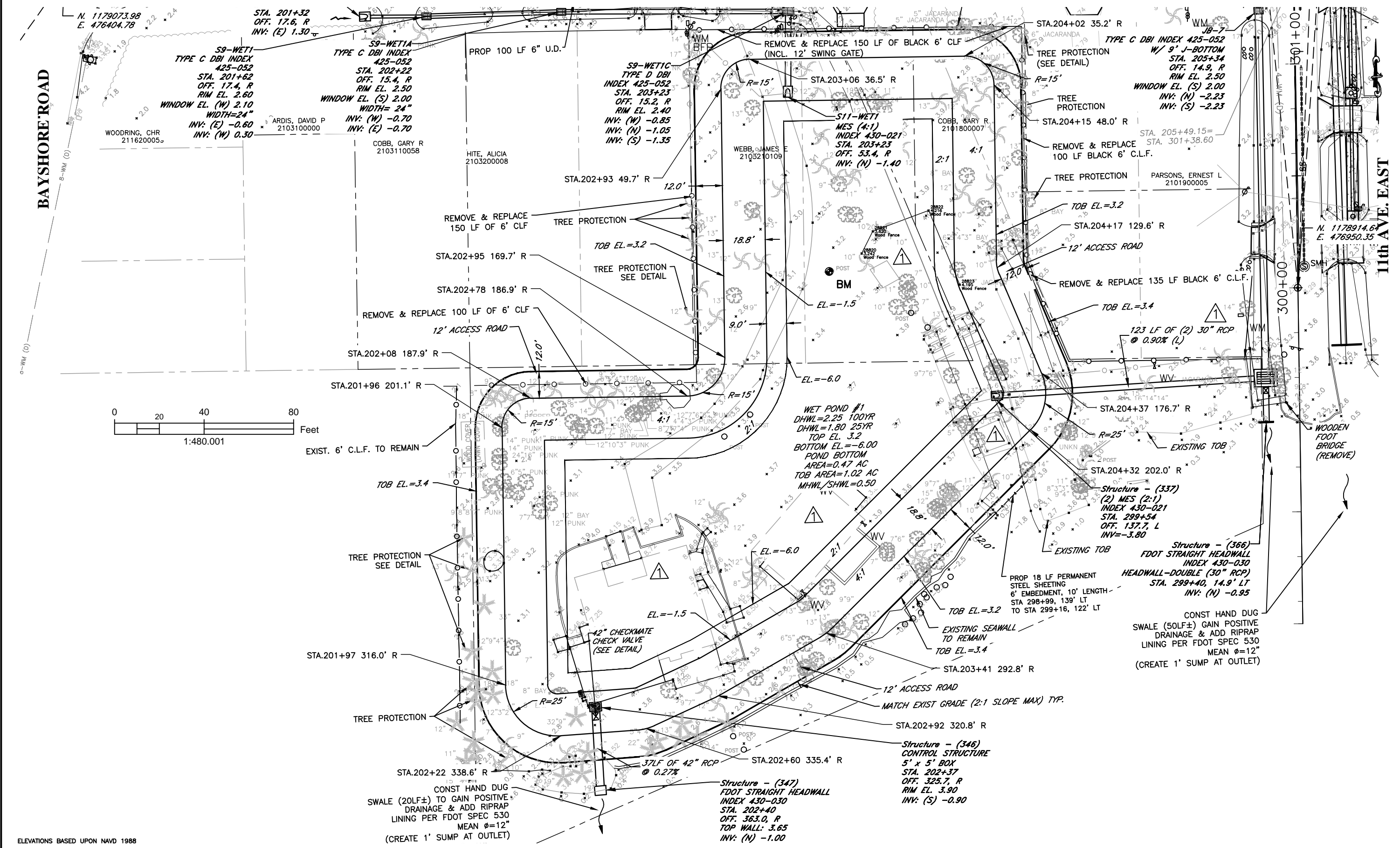
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
69th STREET COURT EAST
PLAN & PROFILE

SHEET NO.
20

H:\Highway Engineering\PROJECTS\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 6/25/2020 12:18 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

69th ST. CT. EAST



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ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1 (Remove Demolition Notes)	6/18/20	304-6093460	DESIGNED	JKP	06/2018
			0577-0036	DRAWN	KHL	06/2018
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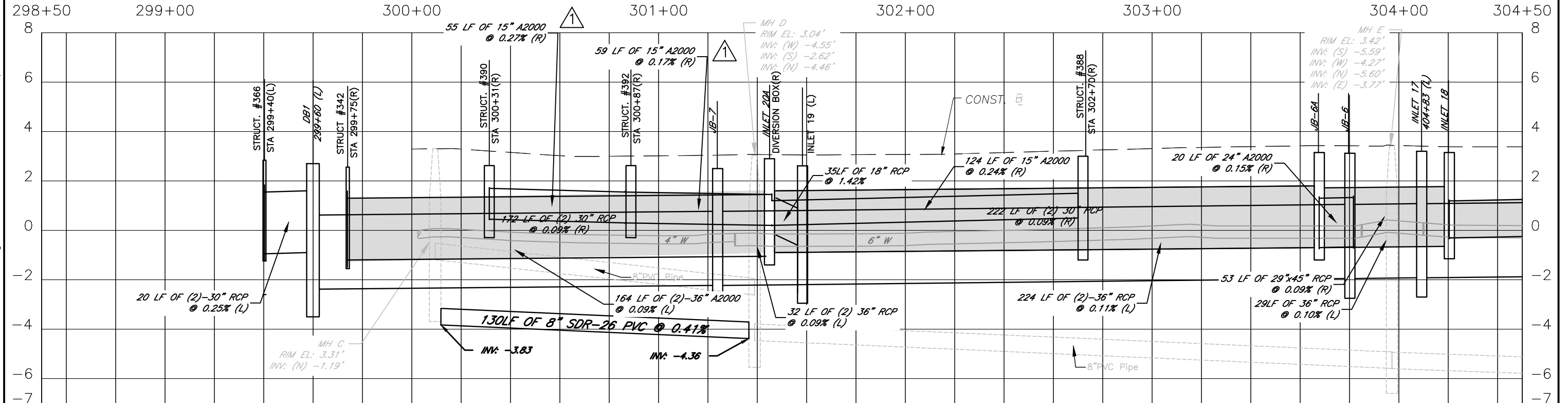
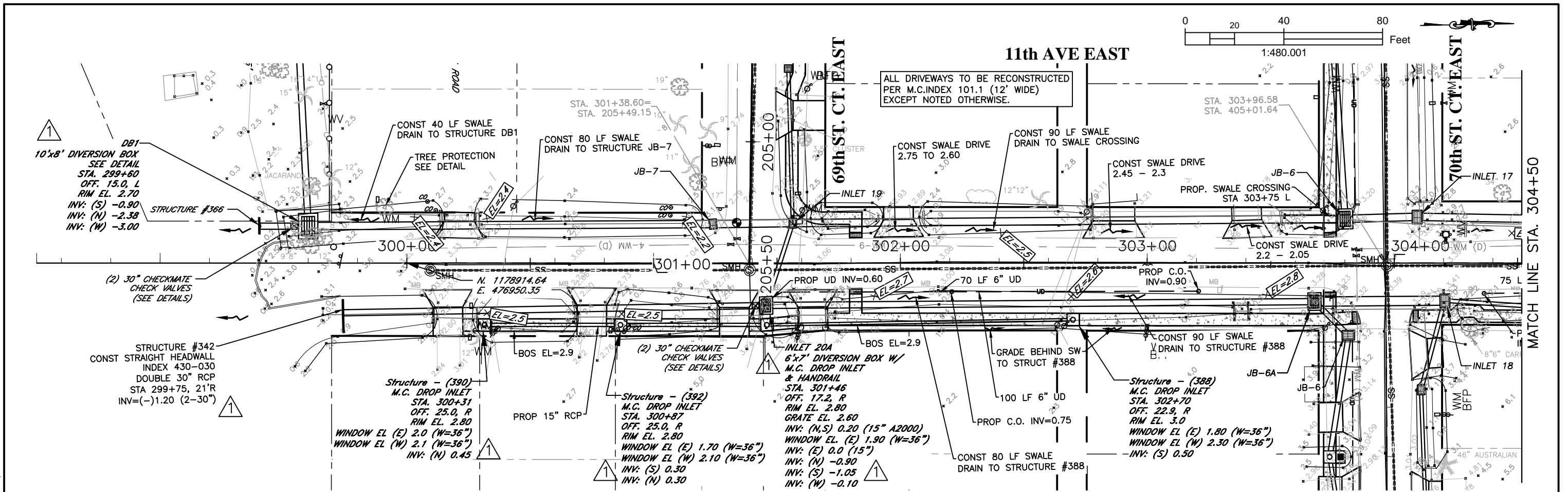
JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 69th STREET COURT EAST
 POND DETAIL

SHEET NO.
 20A


H:\Highway Engineering\PROJECTS\WALKSIRubonia\DWG\Rubonia_PP.dwg 6/25/2020 12:14 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
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			SURVEY #	0577-0036	DESIGNED	JKP 06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL 06/2018
			SCALE	1"=40'	CHECKED	XXX XX/XXXX

JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

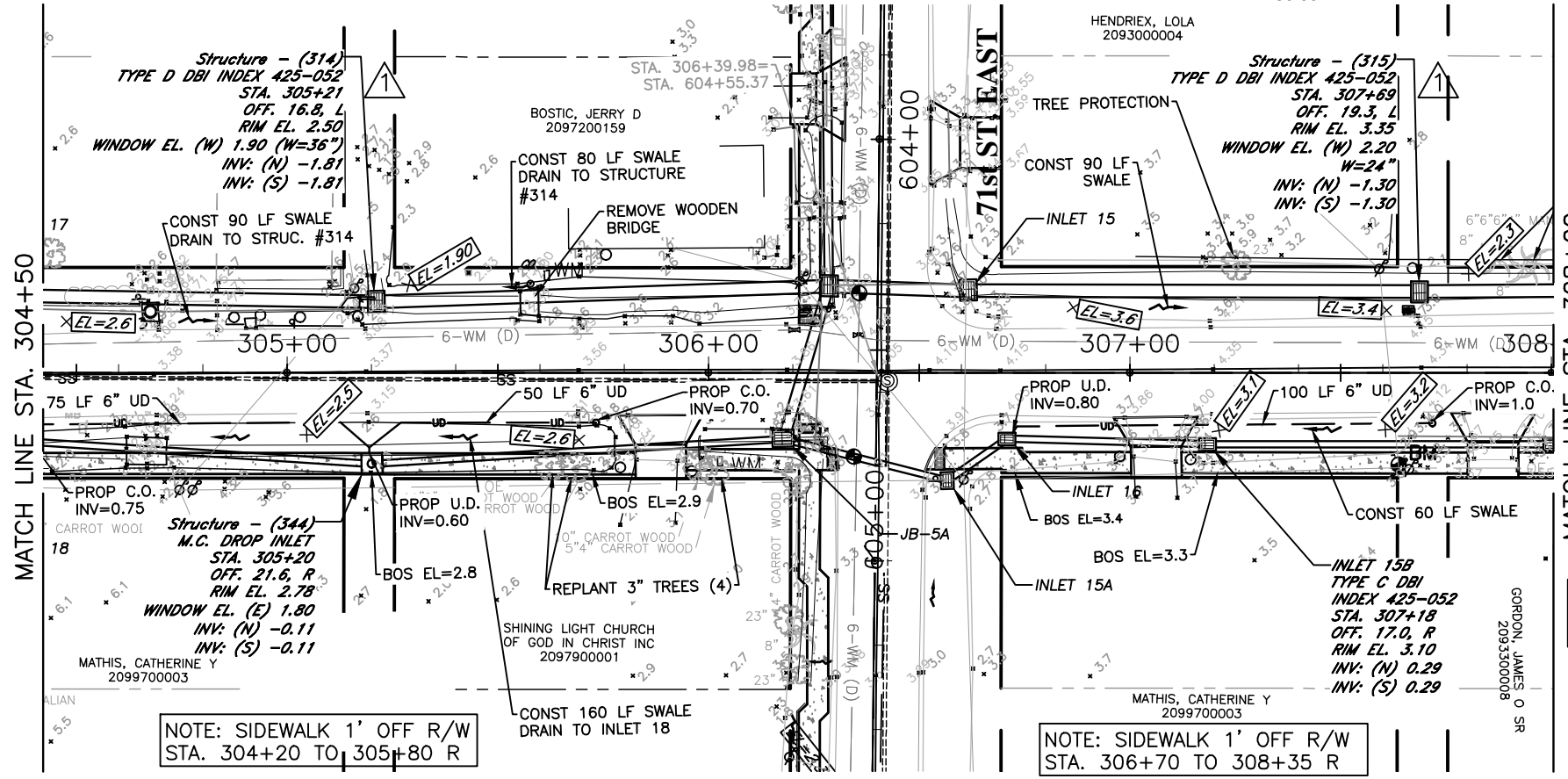
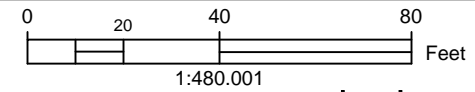


PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 11th AVENUE EAST
 PLAN & PROFILE

SHEET NO.
21

11th AVE EAST

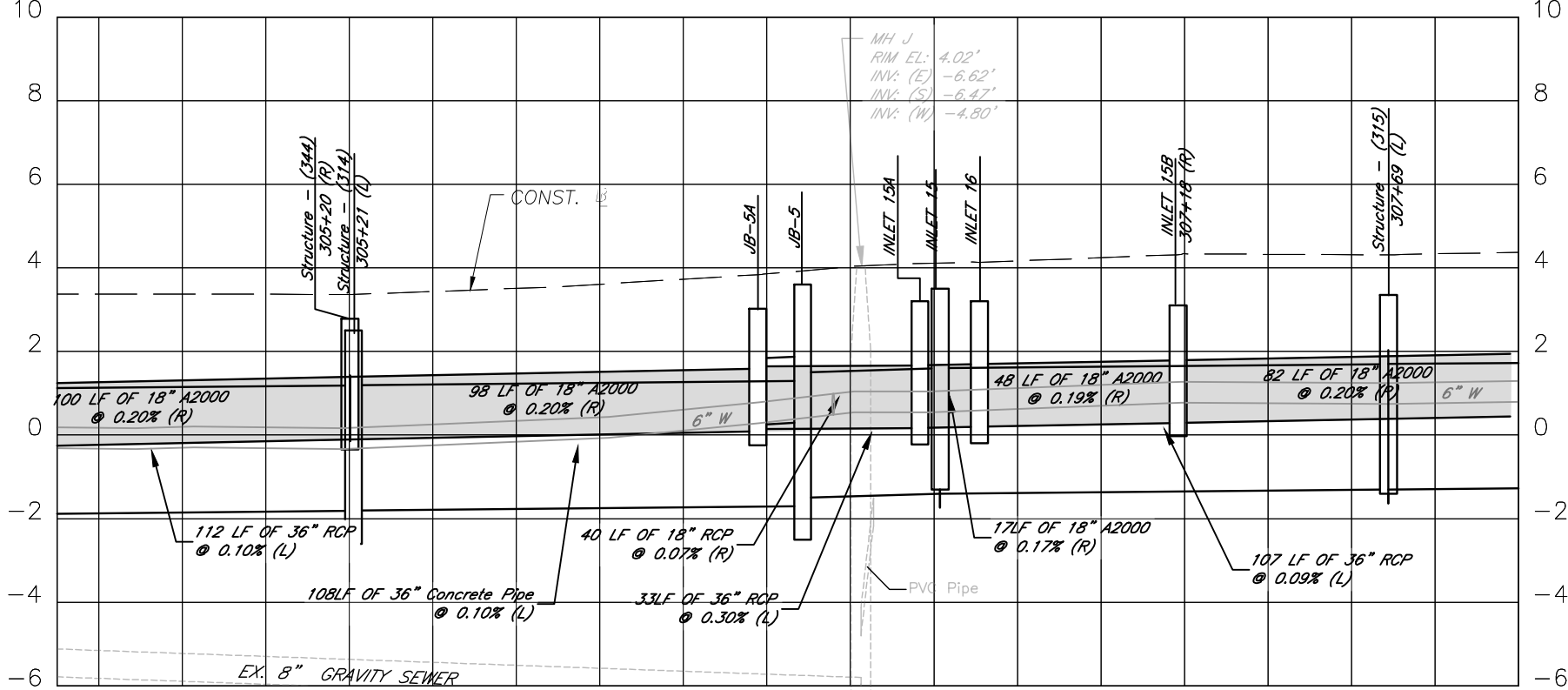


ALL DRIVEWAYS TO BE RECONSTRUCTED PER M.C.INDEX 101.1 (12' WIDTH) EXCEPT NOTED OTHERWISE.

NOTE: SIDEWALK 1' OFF R/W STA. 304+20 TO 305+80 R

NOTE: SIDEWALK 1' OFF R/W STA. 306+70 TO 308+35 R

304+50 305+00 306+00 307+00 308+00



ELEVATIONS BASED UPON NAVD 1988

H:\Highway Engineering\PROJECTS\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 6/25/2020 12:00 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1 (Rev. Index #)	6/18/20	304-6093460	DESIGNED	JKP	06/2018
			0577-0036	DRAWN	KHL	06/2018
			25/33S/17E	CHECKED	XXX	XX/XXXX
			SCALE 1"=40'			

JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

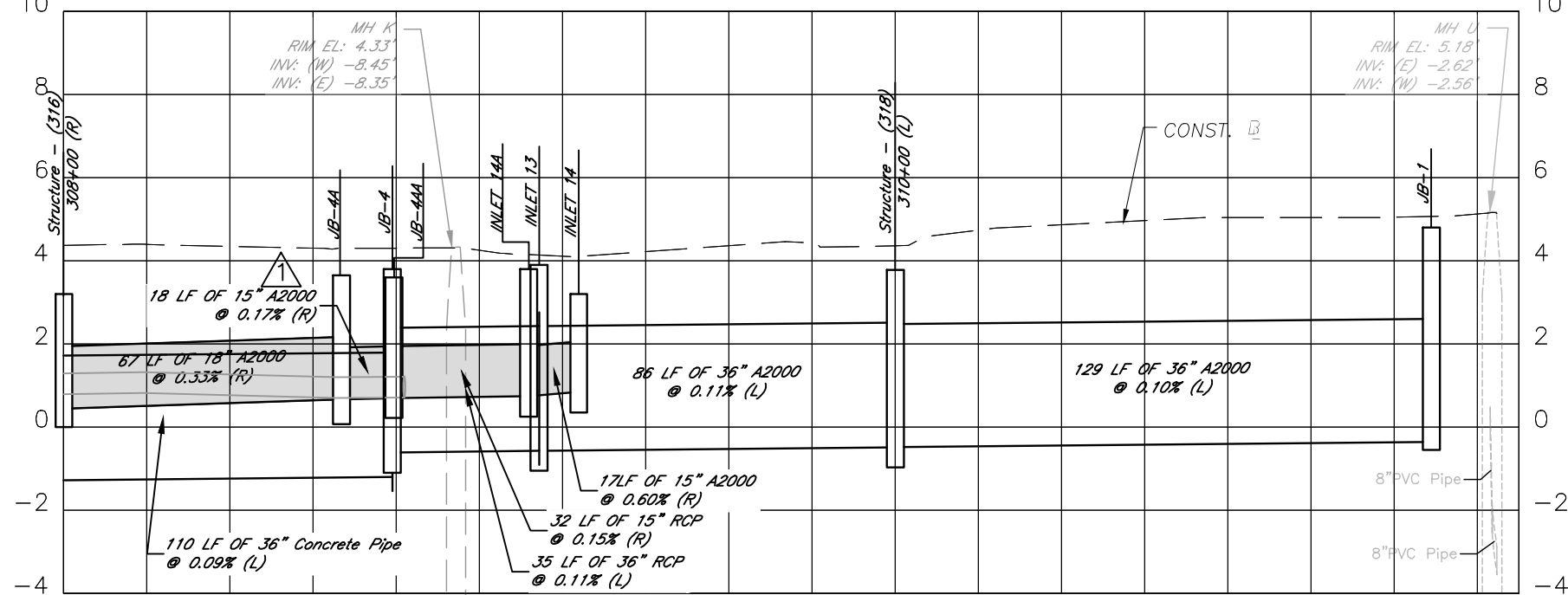
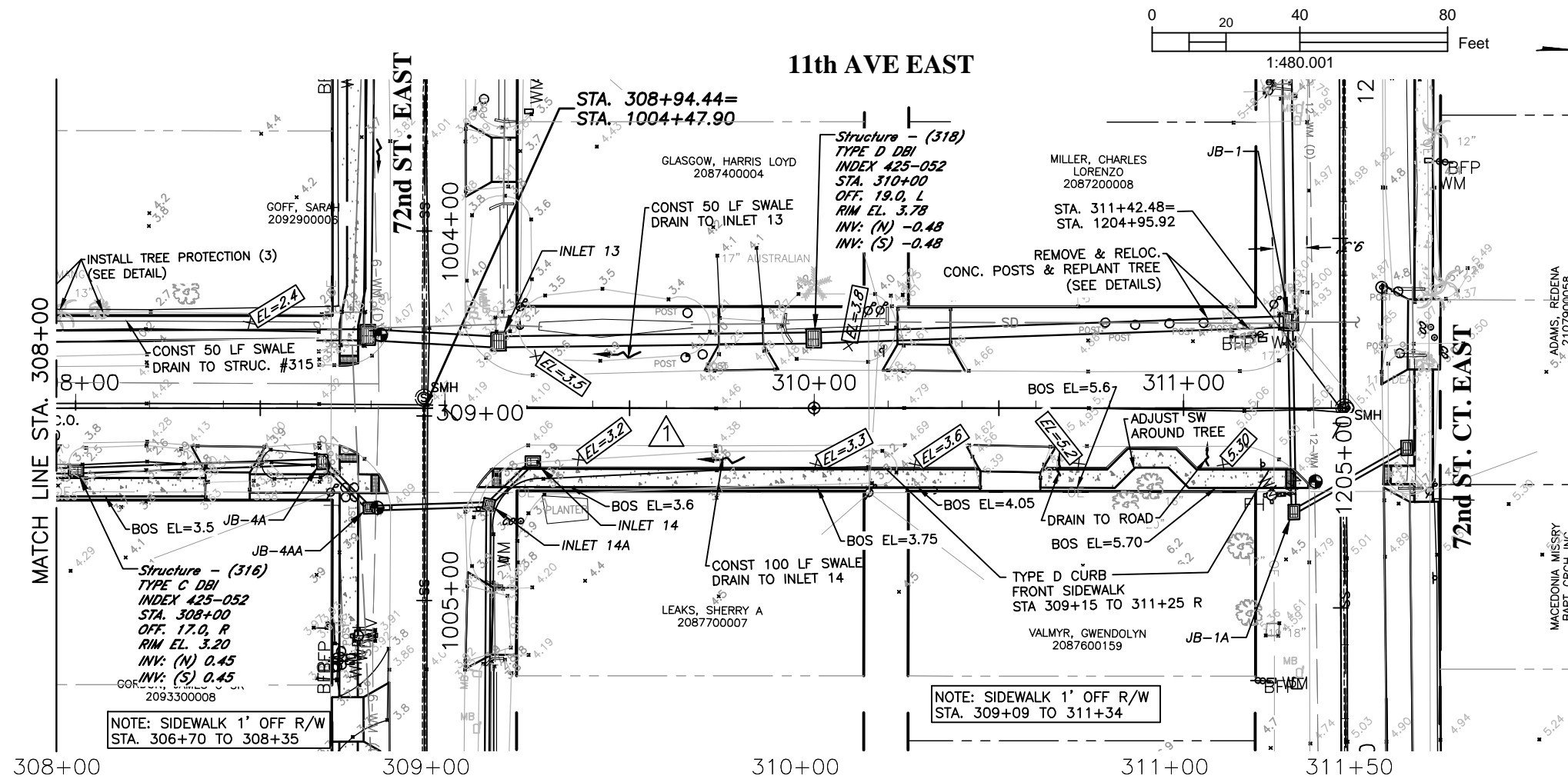


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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
11th AVENUE EAST
PLAN & PROFILE

SHEET NO.
22

H:\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 6/25/2020 11:59 AM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
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			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date

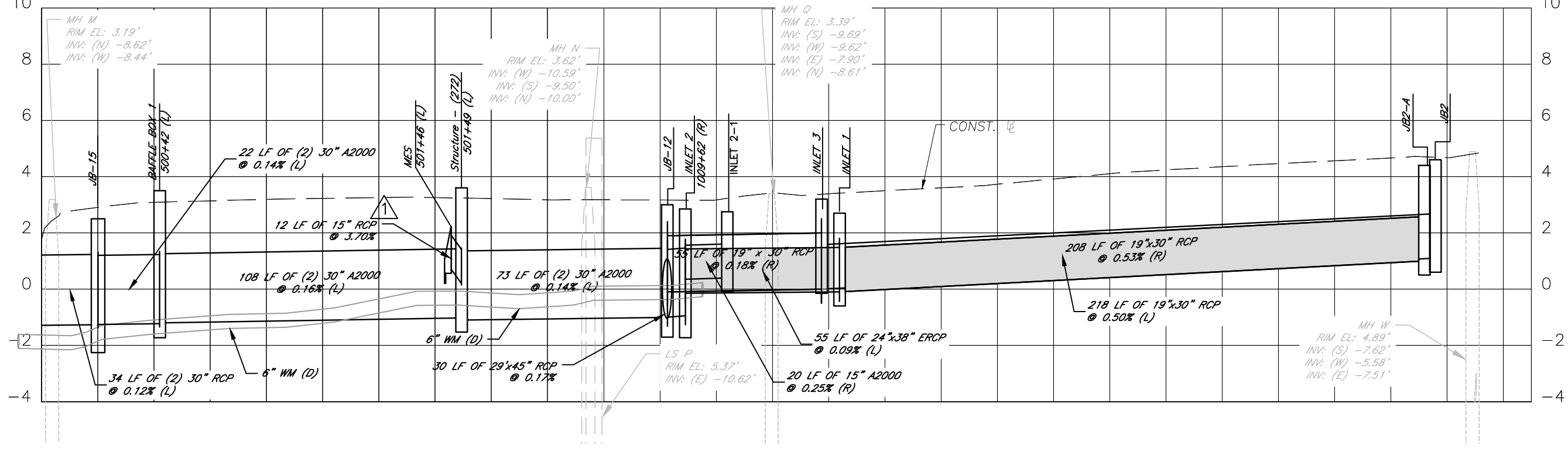
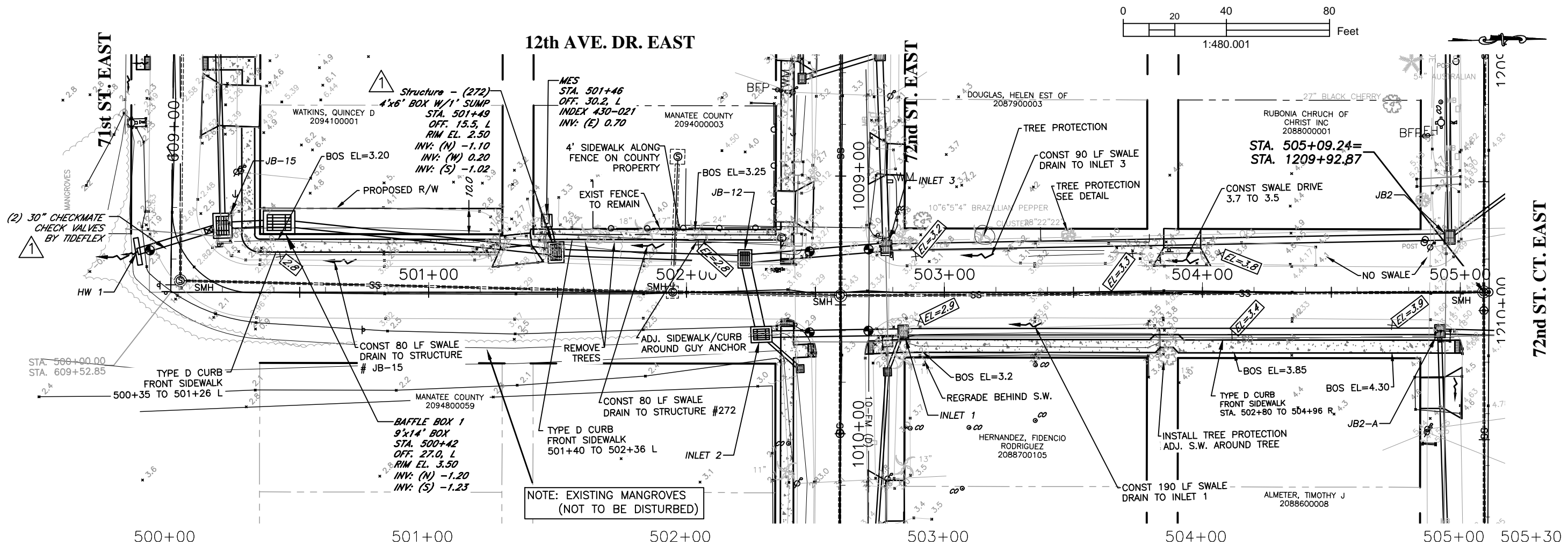


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
11th AVENUE EAST
PLAN & PROFILE

SHEET NO.
23

H:\Highway Engineering\K\K\K\SIDE\WALKS\KUBONIA\W\KUBONIA_P\HW.dwg 6/25/2020 11:53 AM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



ELEVATIONS BASED UPON NAVD 1988

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

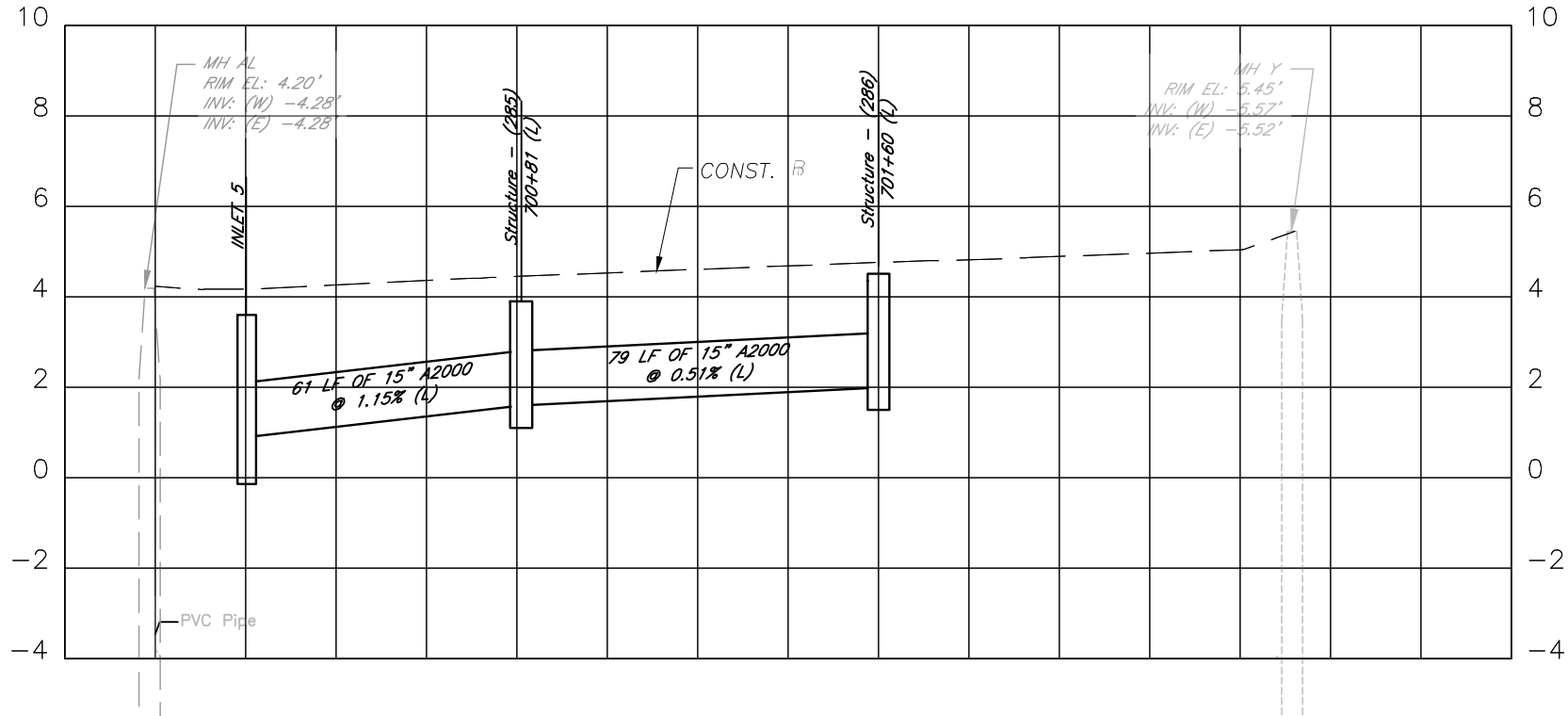
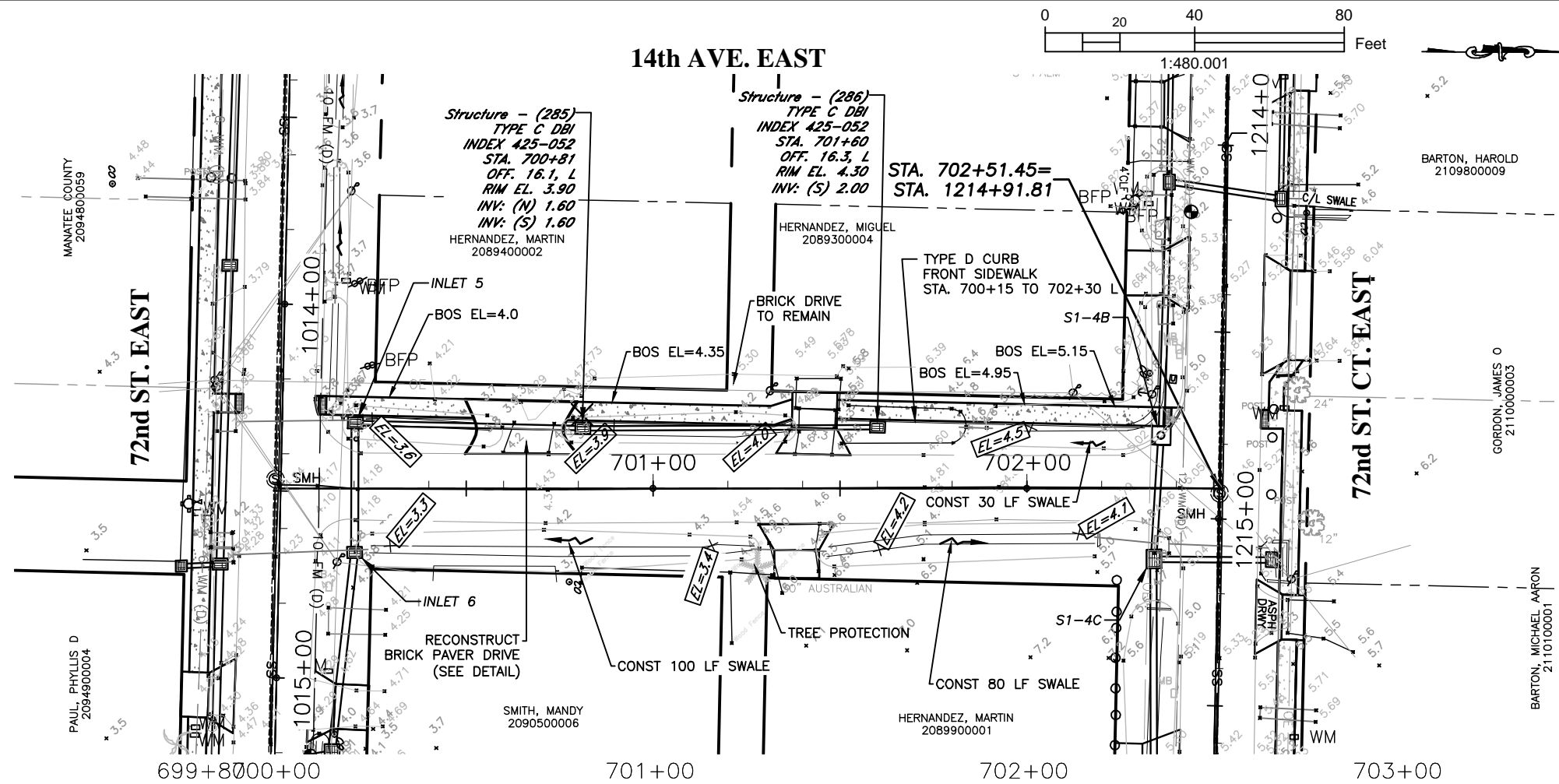


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
12th AVENUE DRIVE EAST
PLAN & PROFILE

SHEET NO.
24

\\boc\dfs\IPWD_Engineering_Share\Highway_Engineering\PROJECTS\SIDEWALKS\Rubonia\DWG\Rubonia_PP.dwg 3/12/2020 2:57 PM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



NOTE: SIDEWALK 4' OFF R/W
STA 700+10 TO STA 701+30

ELEVATIONS BASED UPON NAVD 1988

JOHN PARI
FLORIDA P.E. # 56368



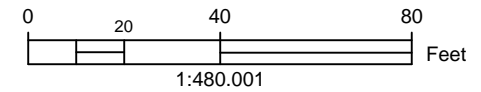
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
14th AVENUE EAST
PLAN & PROFILE

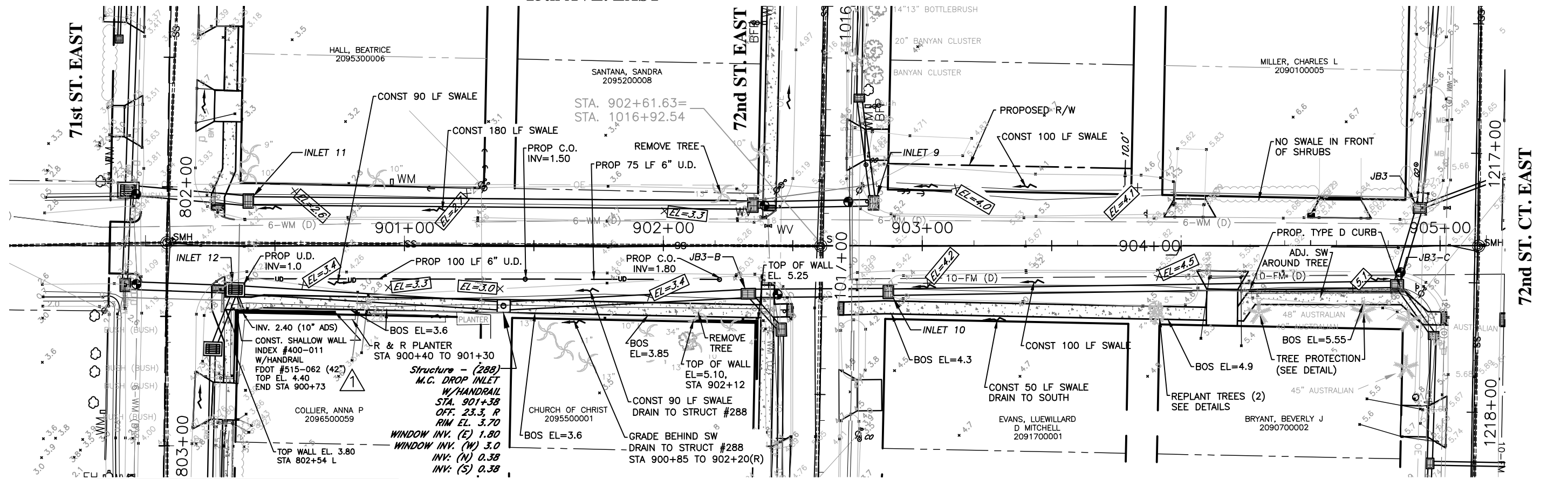
DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

Signature & Date

SHEET NO.
25

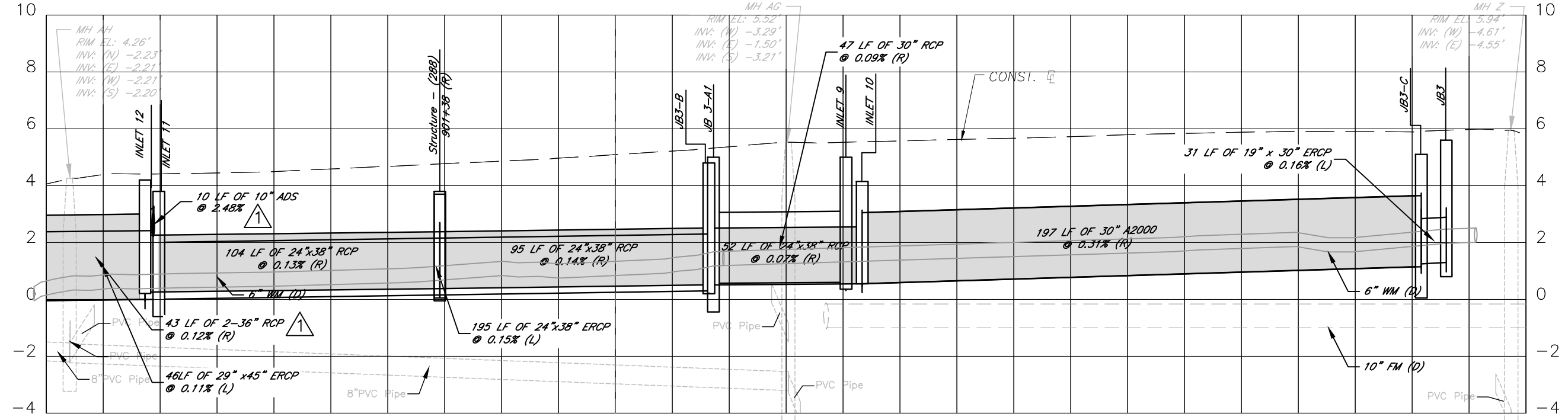


15th AVE. EAST



NOTE: SIDEWALK IS 4' WIDE & 1.0' OFF R/W FROM STA. 900+30 TO 900+40 RT

900+00 901+00 902+00 903+00 904+00 905+00 905+20



ELEVATIONS BASED UPON NAVD 1988

H:\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWG\IRubonia_PP.dwg 6/25/2020 11:47 AM ANSI FULL BLEED B (11.00 X 17.00 INCHES)

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			SCALE 1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

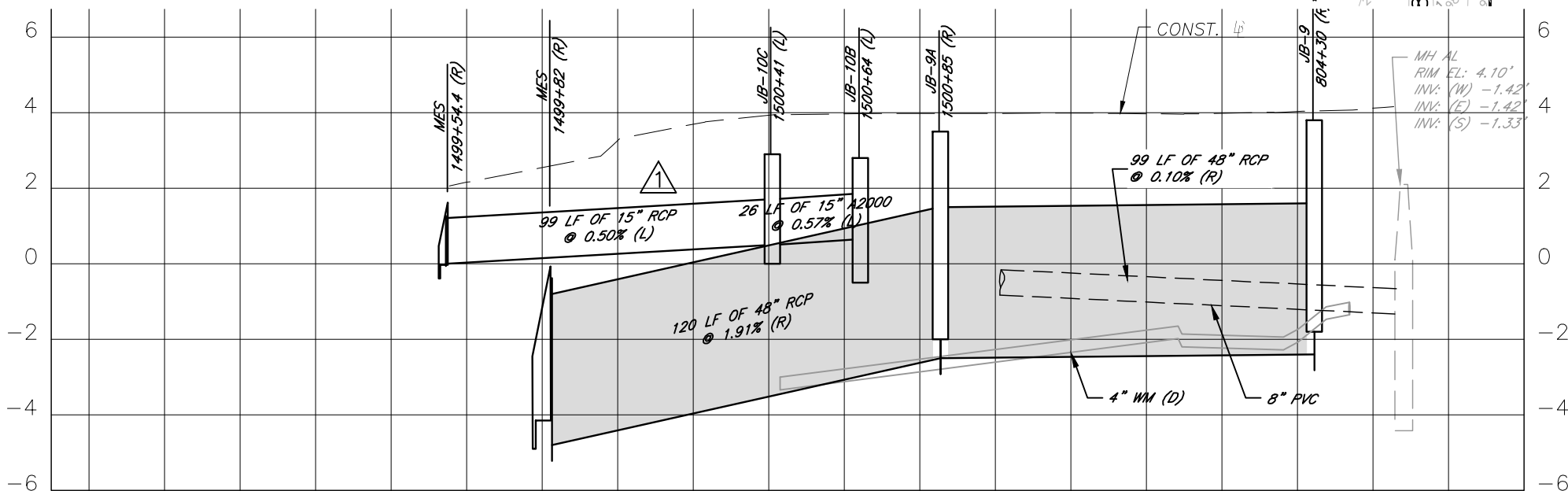
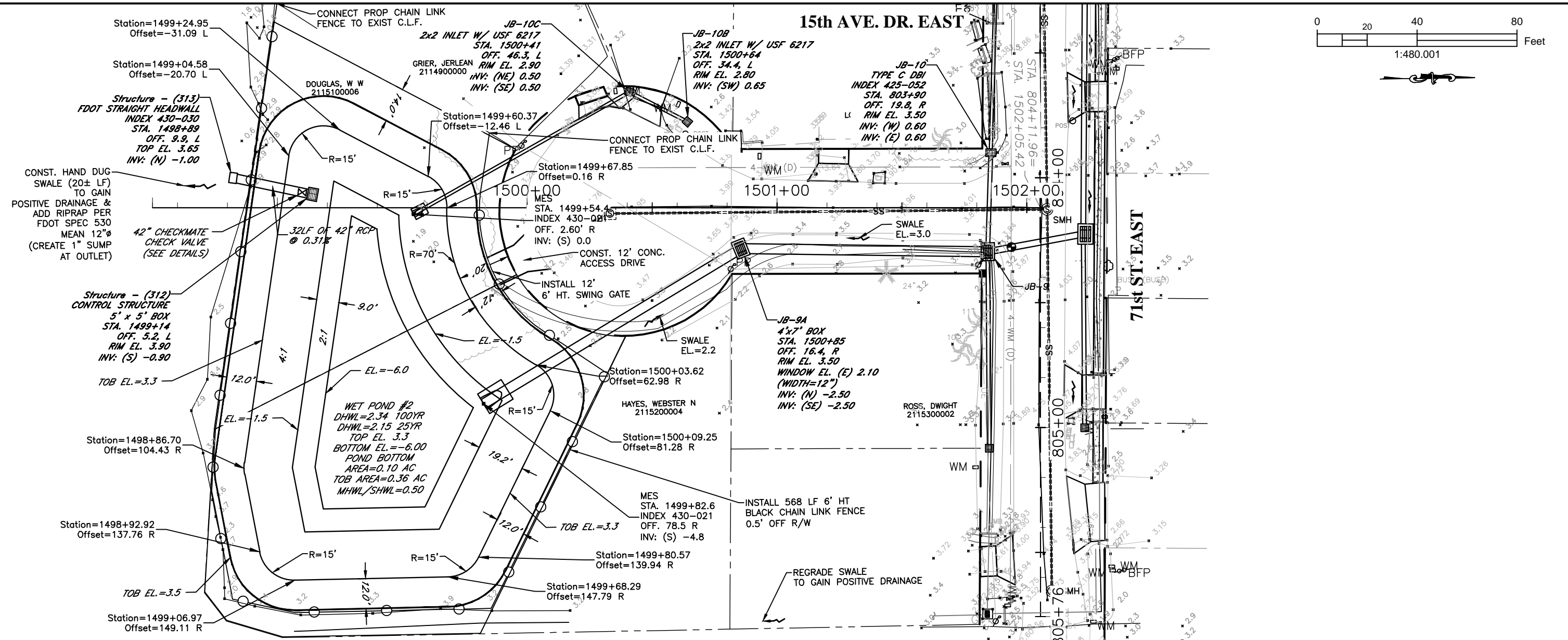


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
15th AVENUE EAST
PLAN & PROFILE

SHEET NO.
26

H:\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWGRubonia_PP.dwg 6/25/2020 11:40 AM ANSI FULL BLEED B (11.00 X 17.00 INCHES)



ELEVATIONS BASED UPON NAVD 1988						
DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
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			0577-0036	DRAWN	KHL	06/2018
			25/33S/17E	CHECKED	XXX	XX/XXXX
			1"=40'			

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date

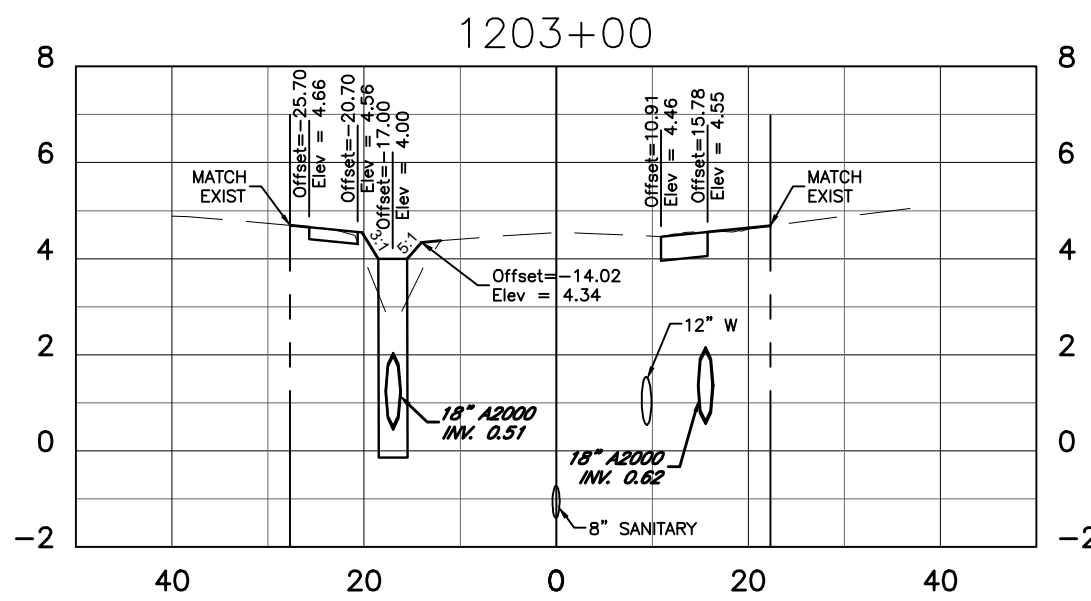
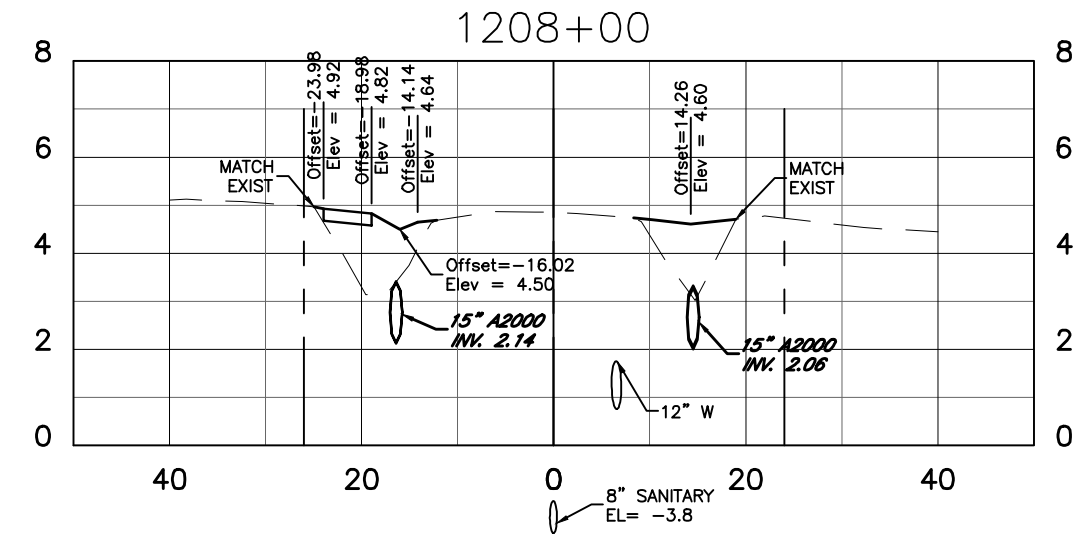
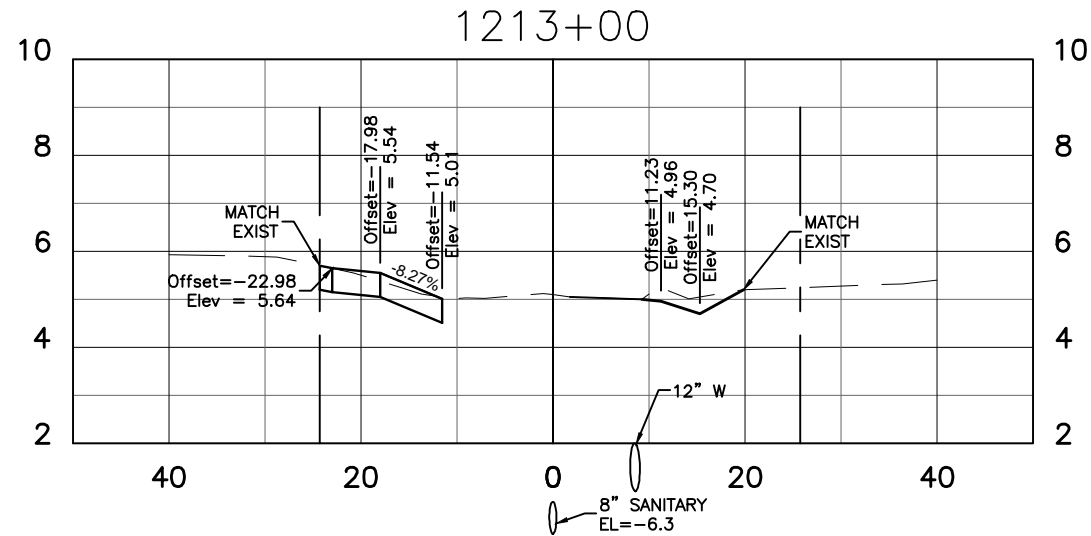
Manatee County
FLORIDA

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
15th AVENUE DRIVE EAST
PLAN & PROFILE

SHEET NO.
27

J:\Manatee County\template\MC-Public Works\template\lib\1-D01-MC-template_2018_11x17.dwg



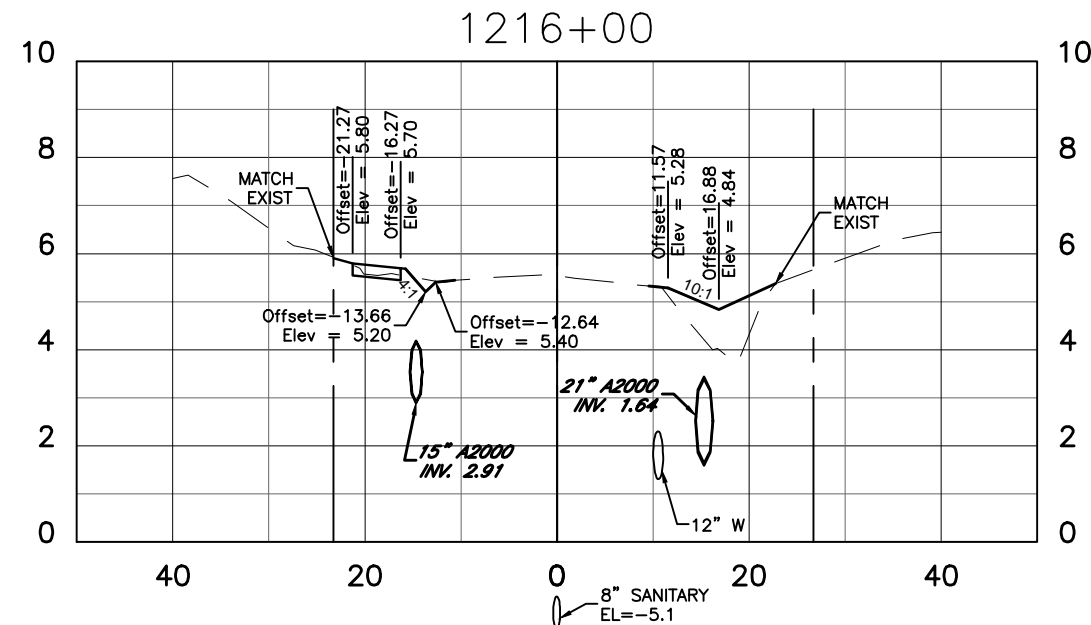
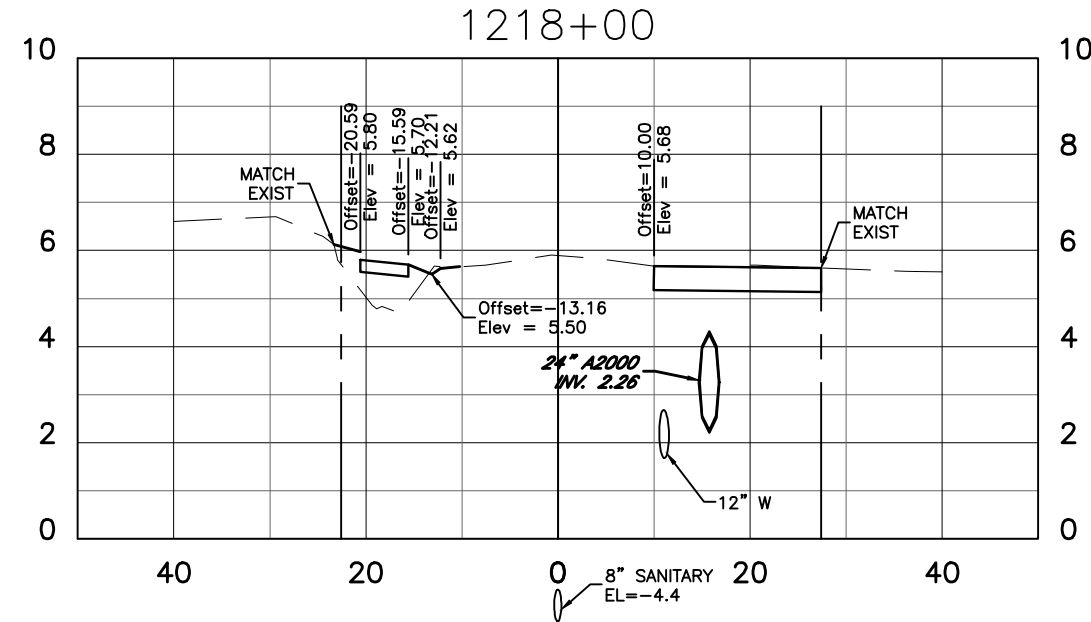
Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



JOHN K. PARI
FLORIDA P.E. # 56368



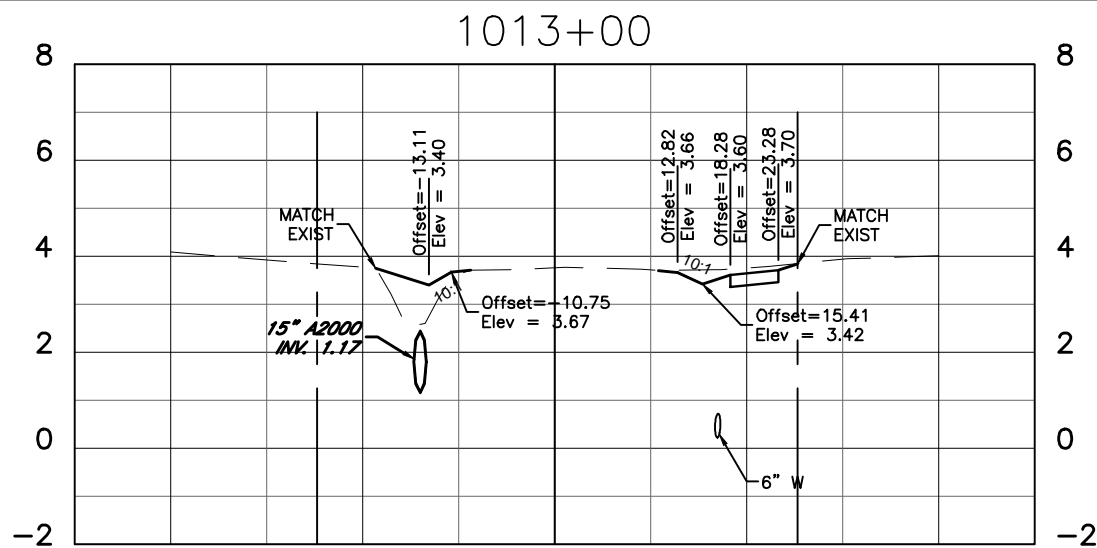
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
72nd Street Court East
CROSS SECTION

Signature & Date

SHEET NO.
28

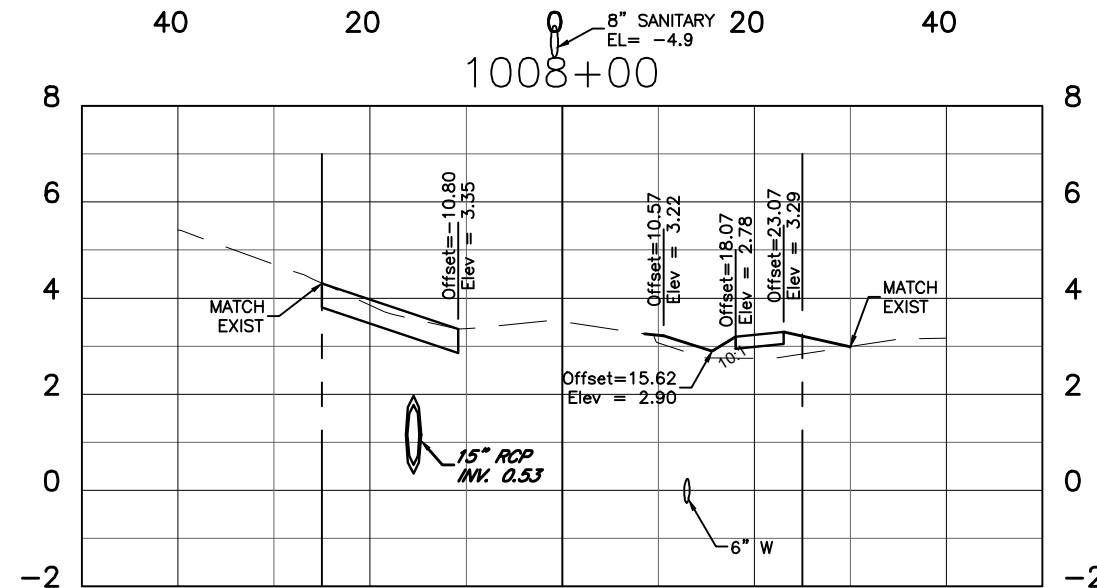
DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####



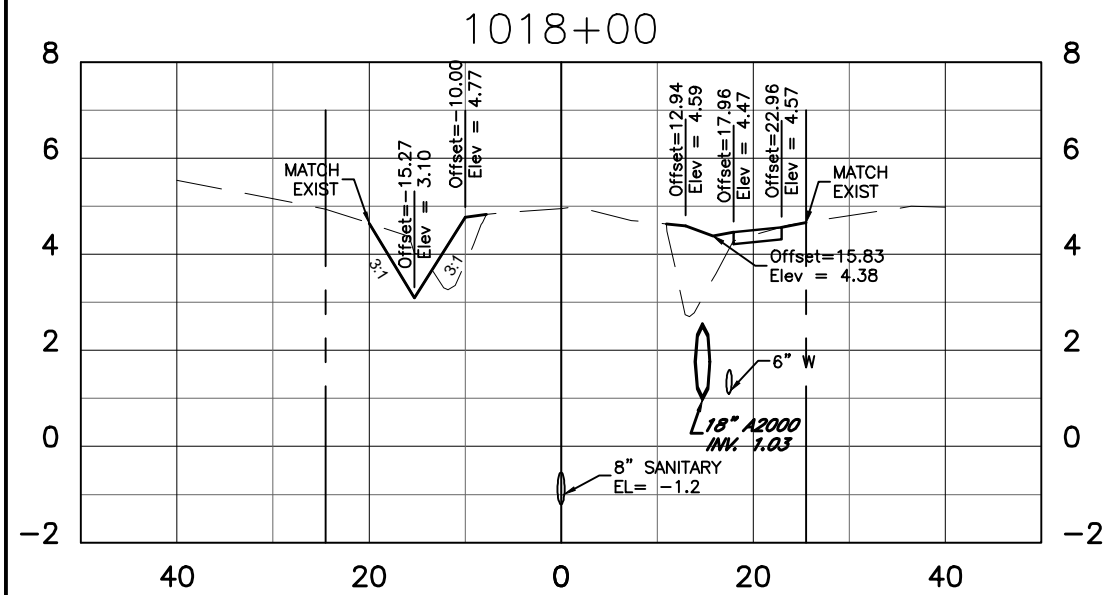
Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0



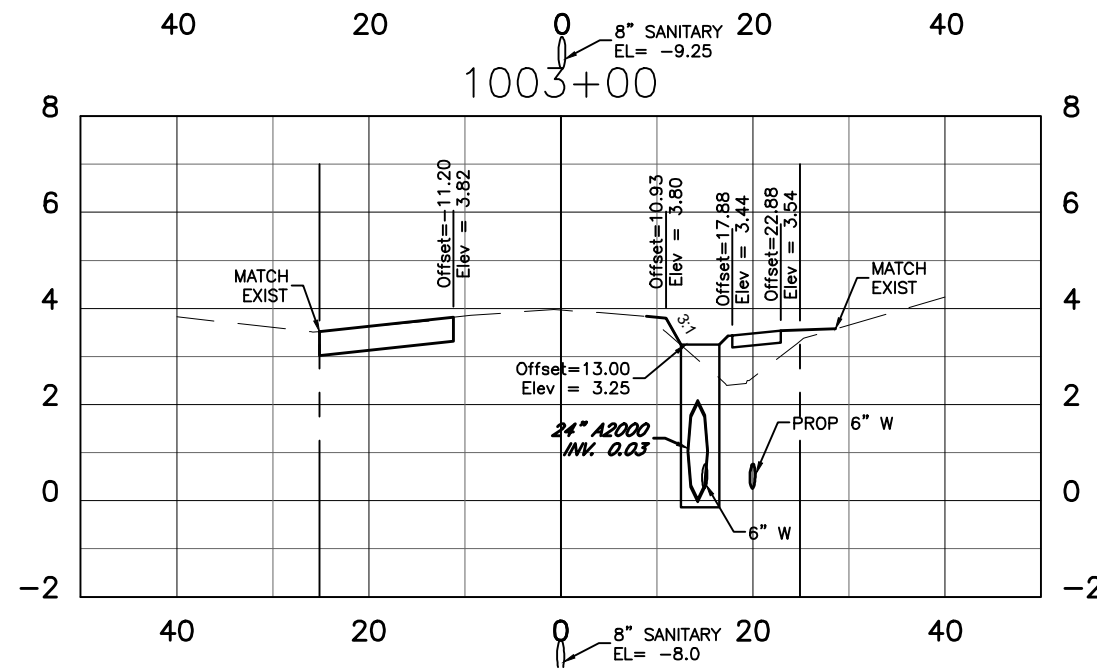
Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0



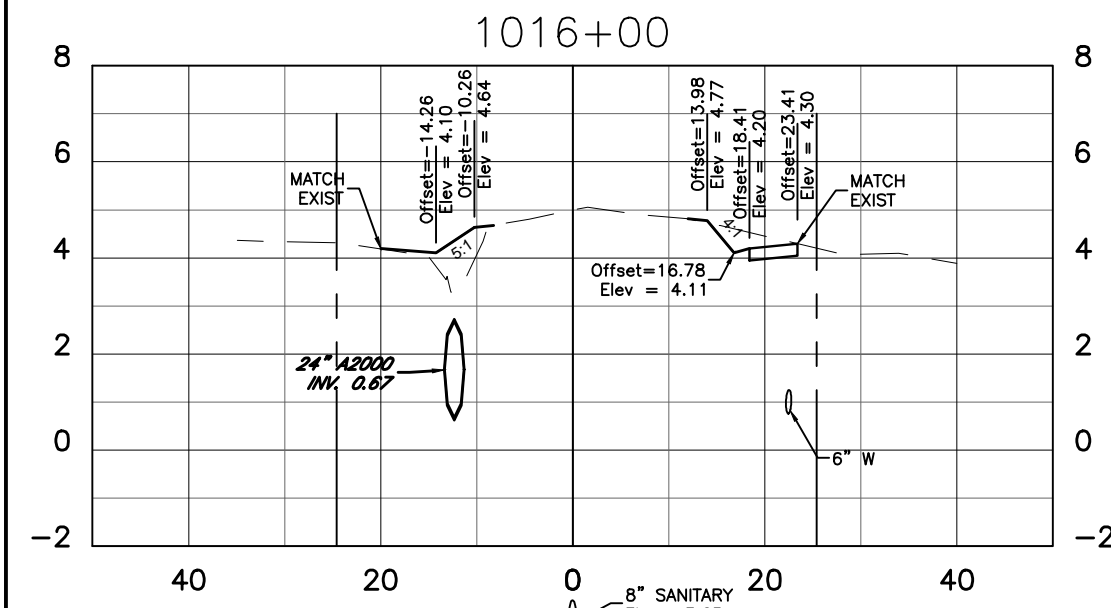
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0	0	0	0



0	0	0	0
0	0	0	0



0	0	0	0
0	0	0	0



0	0	0	0
0	0	0	0

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####

JOHN K. PARI
FLORIDA P.E. # 56368

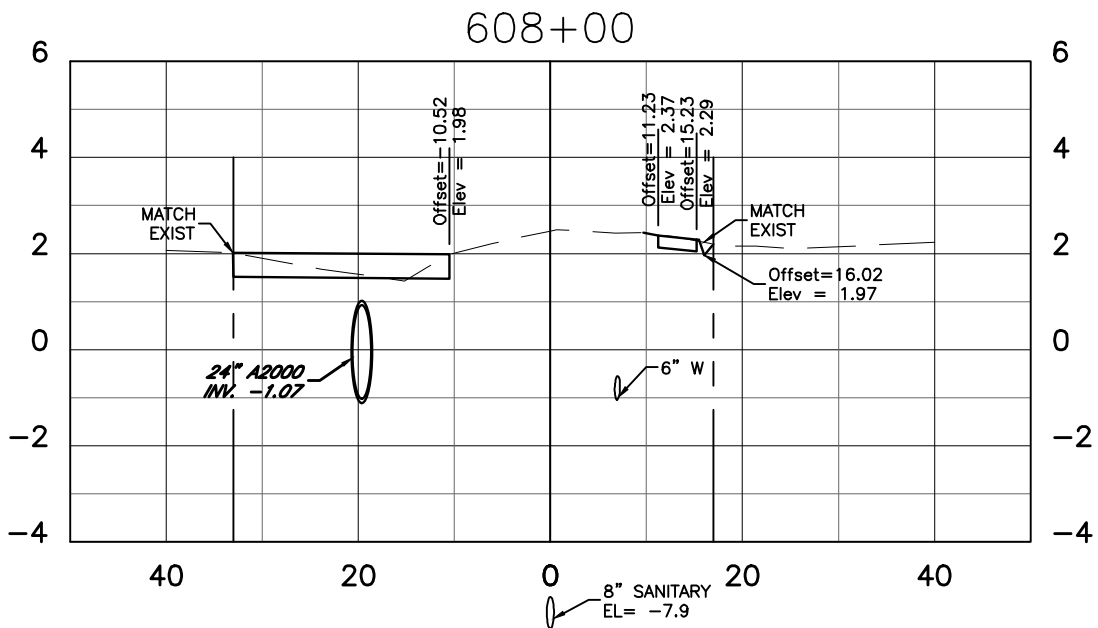
Signature & Date



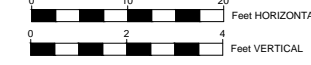
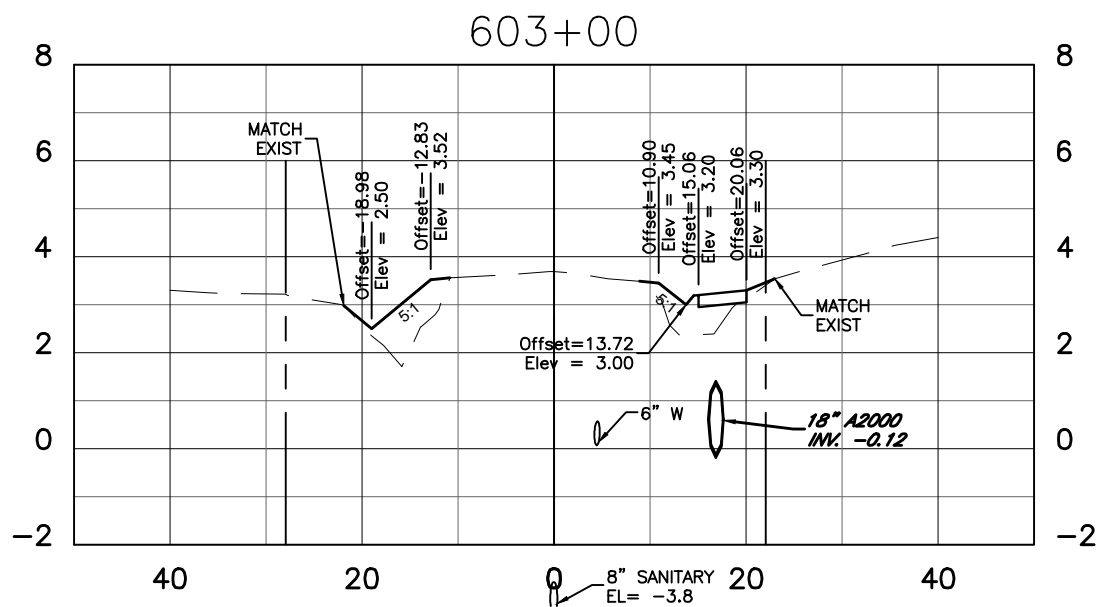
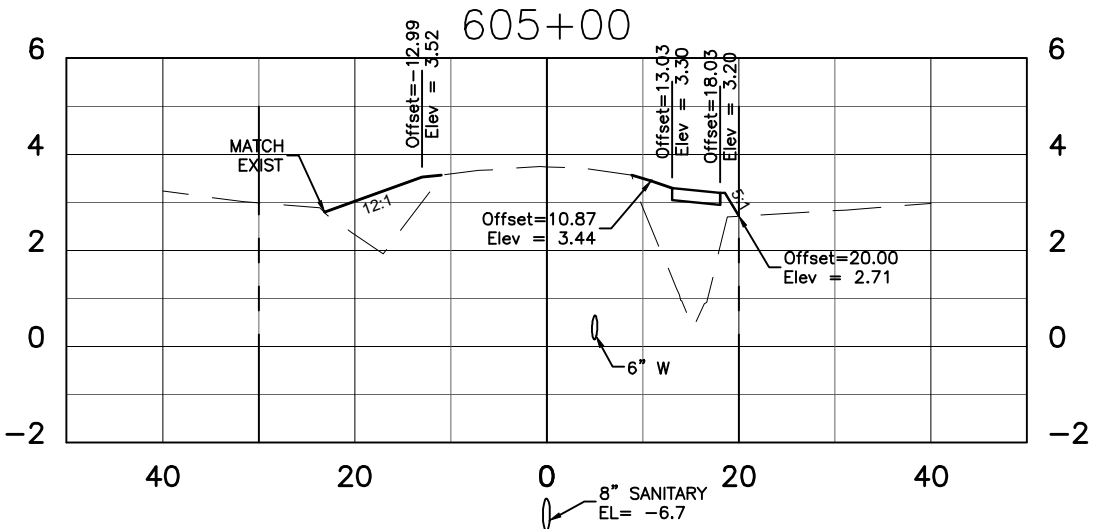
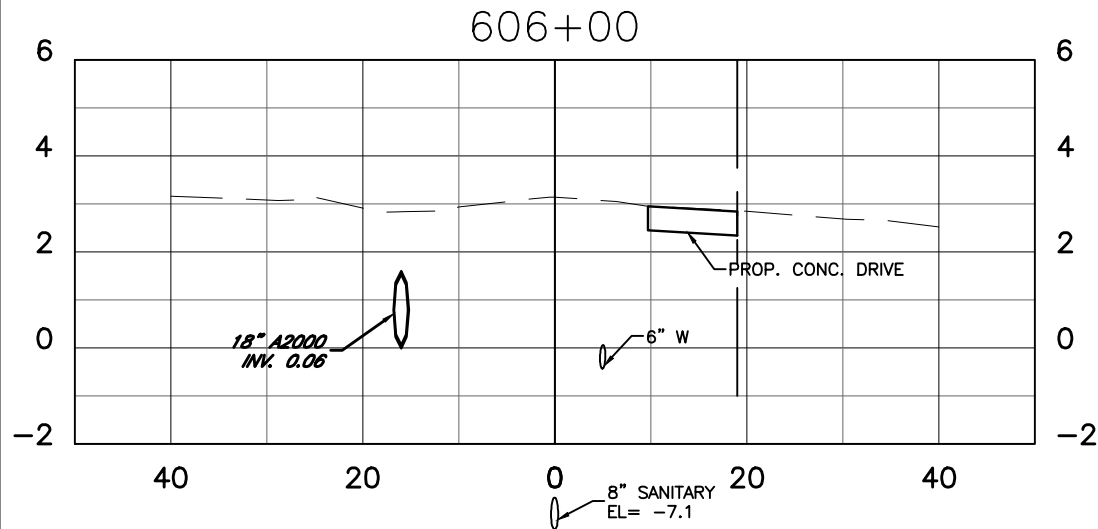
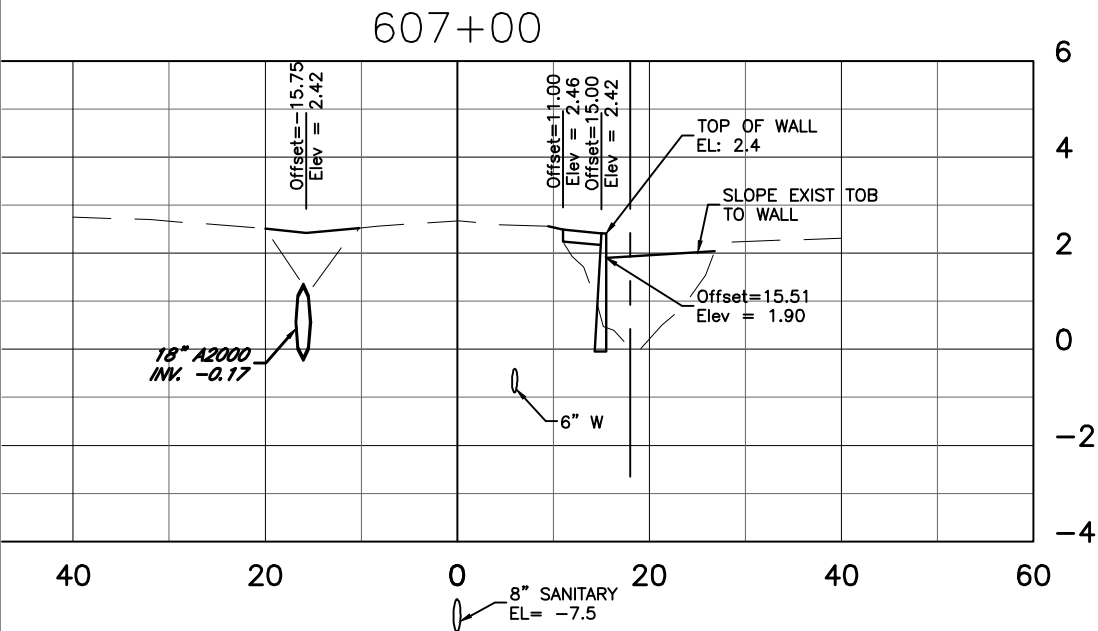
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
72nd Street East
CROSS SECTION

U:\Manatee County\Templata\Works\Templata\TBD-FDOT-MC_Templata_2018_11x17-Crosses.dwg



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	

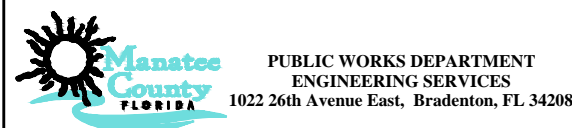


Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	
0		0	

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####

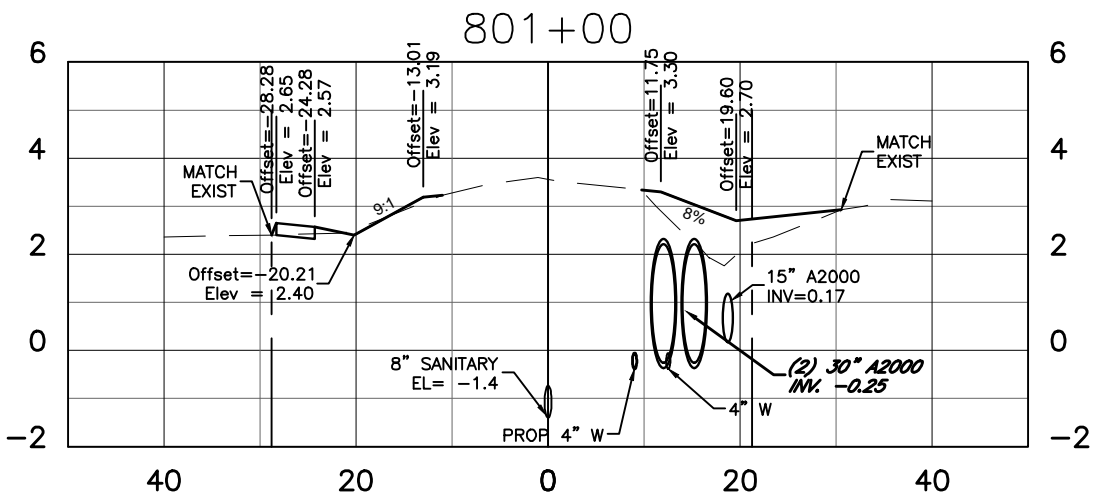
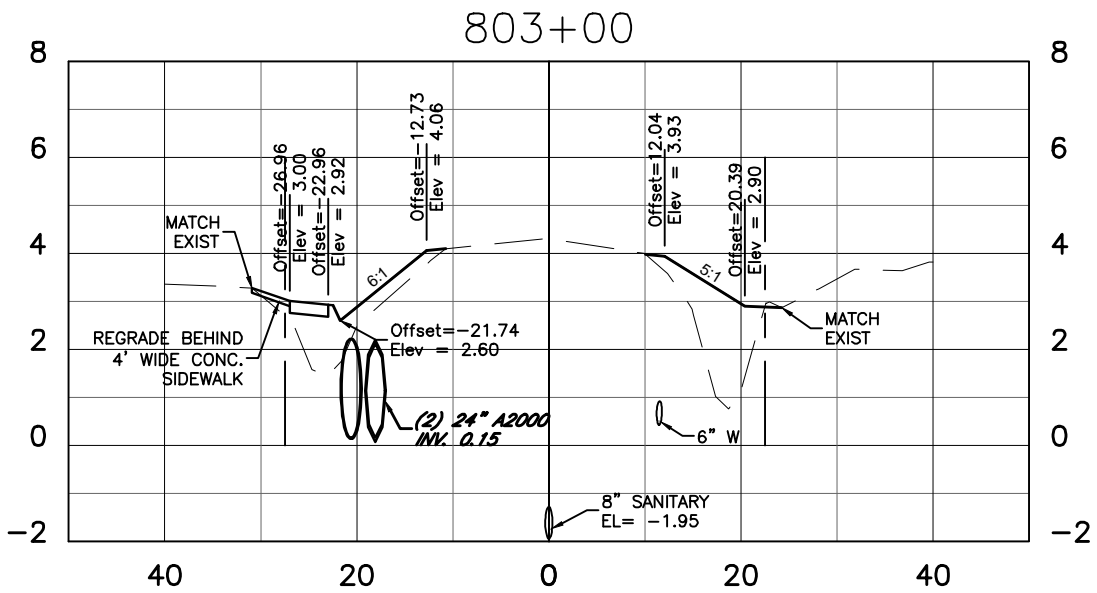
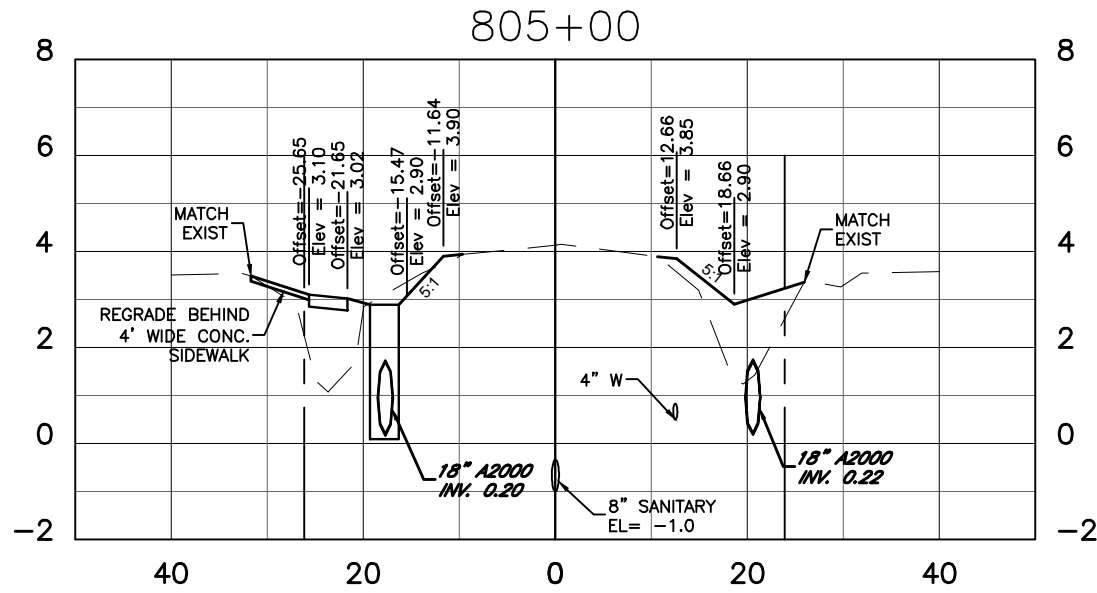
JOHN K. PARI
FLORIDA P.E. # 56368

Signature & Date



RUBONIA
71st Street East
CROSS SECTION

I:\Manatee County\Templata\MC Public Works\Templata\IBD-FDOT-MC_Templata_2018_11x17-01ciss5.dwg



Regular		Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0



Regular		Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			AS SHOWN	CHECKED	###	#####

JOHN K. PARI
FLORIDA P.E. # 56368

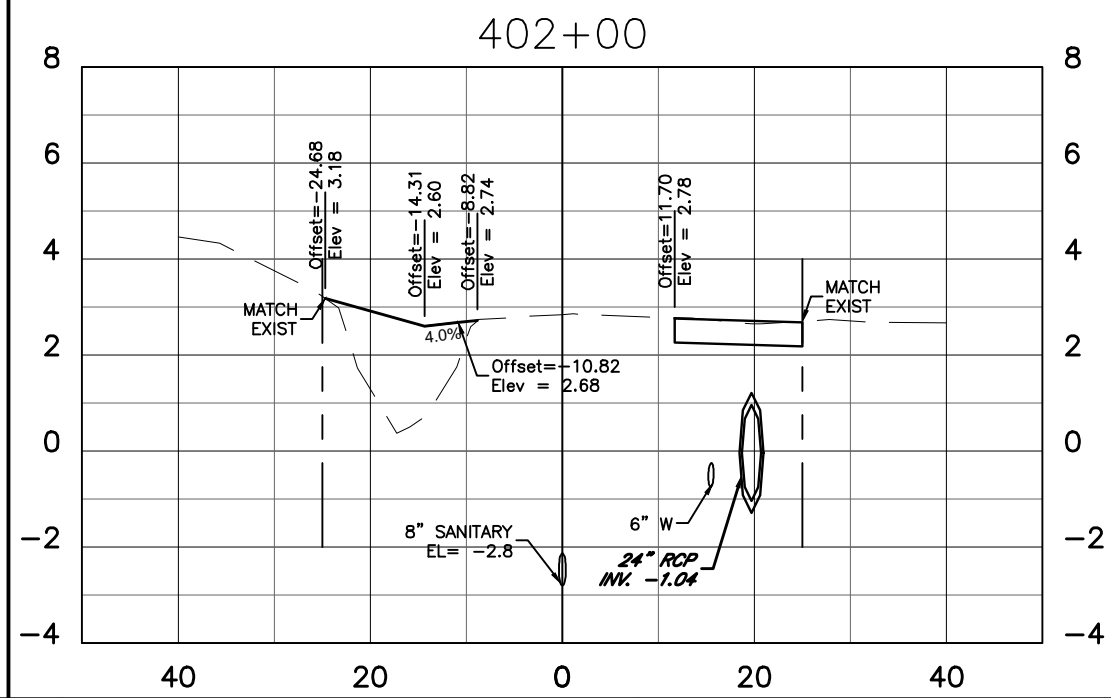
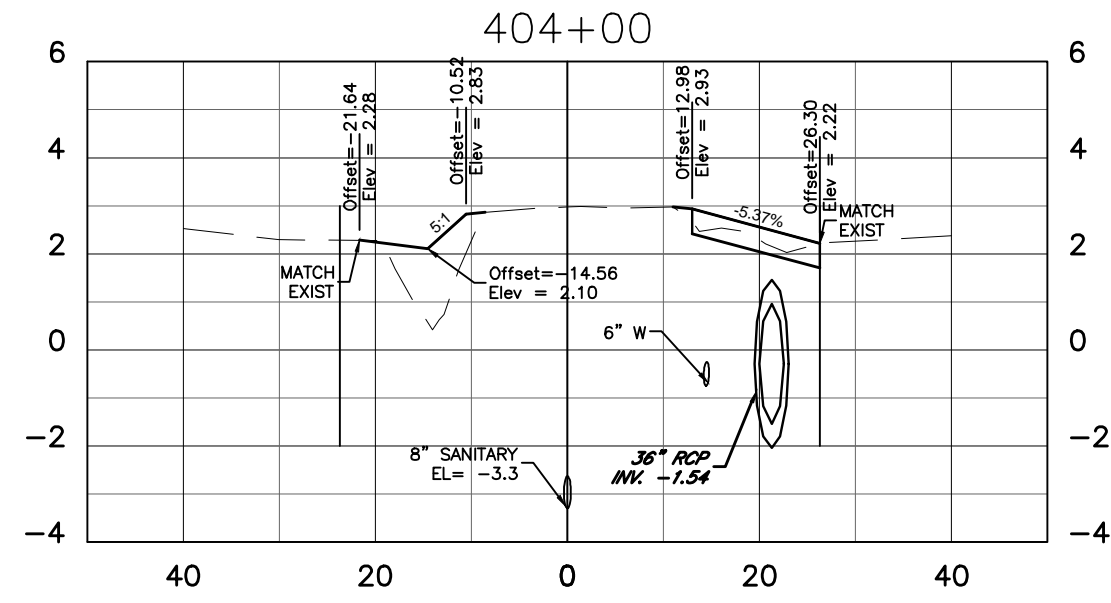
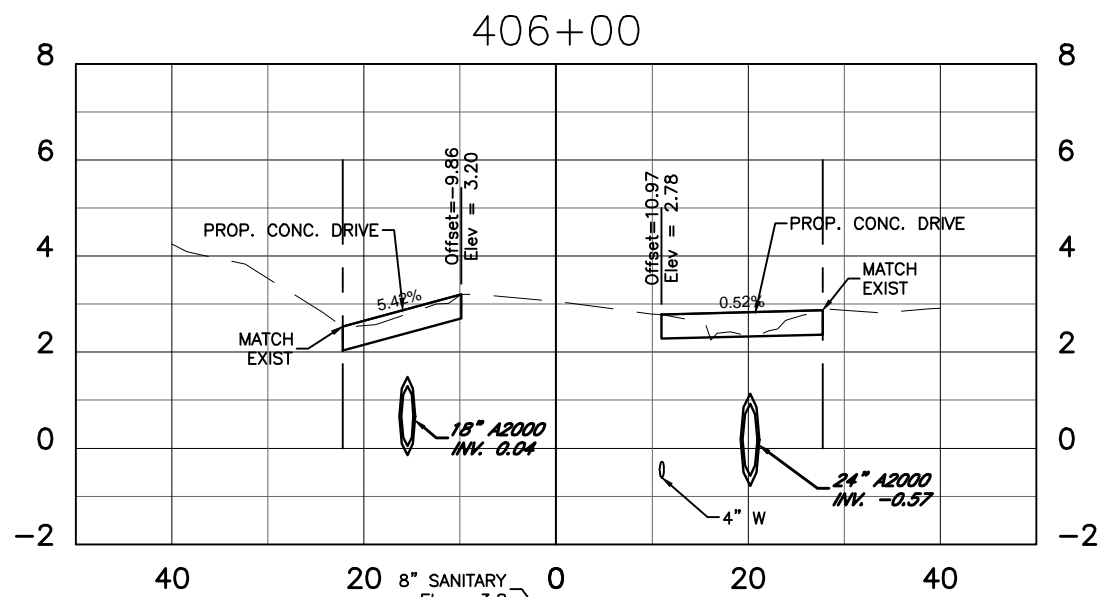
Signature & Date



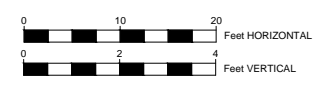
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
71st Street East (2)
CROSS SECTION

SHEET NO.
31



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0		0	
0	0	0	0
0		0	
0	0	0	0
0		0	
0		0	



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0		0	
0	0	0	0
0		0	
0	0	0	0
0		0	
0		0	

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####

JOHN K. PARI
FLORIDA P.E. # 56368

Signature & Date

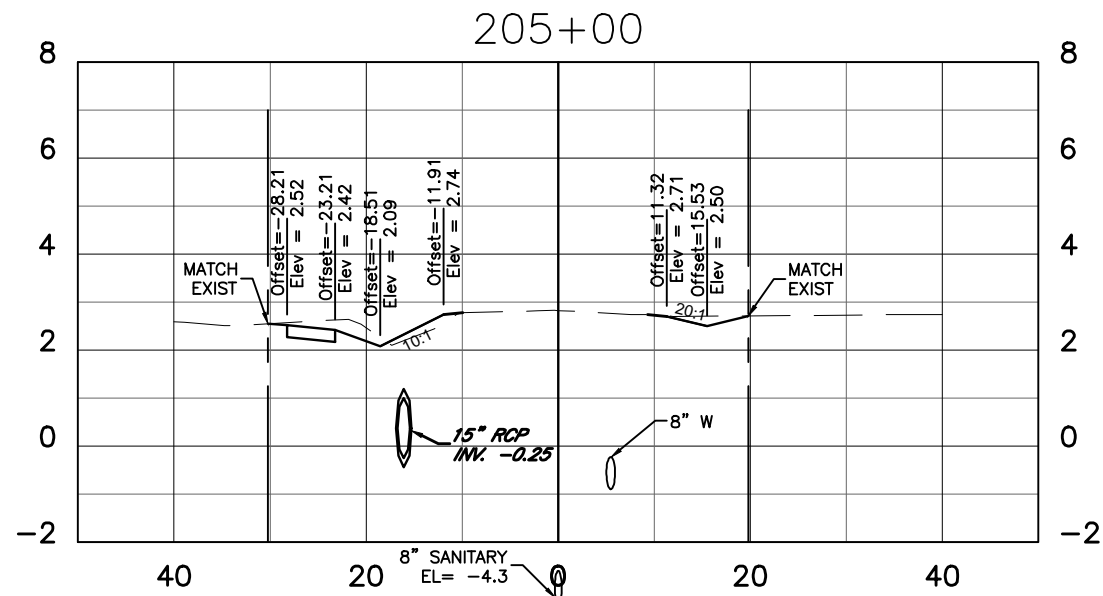


RUBONIA
70th Street Court East
CROSS SECTION

Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

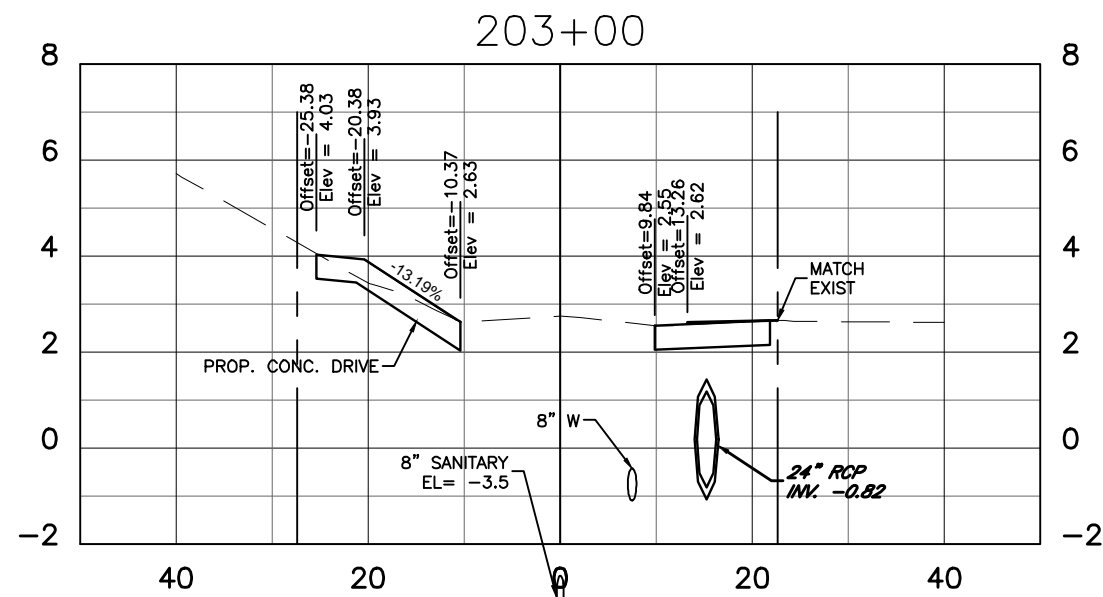


Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³



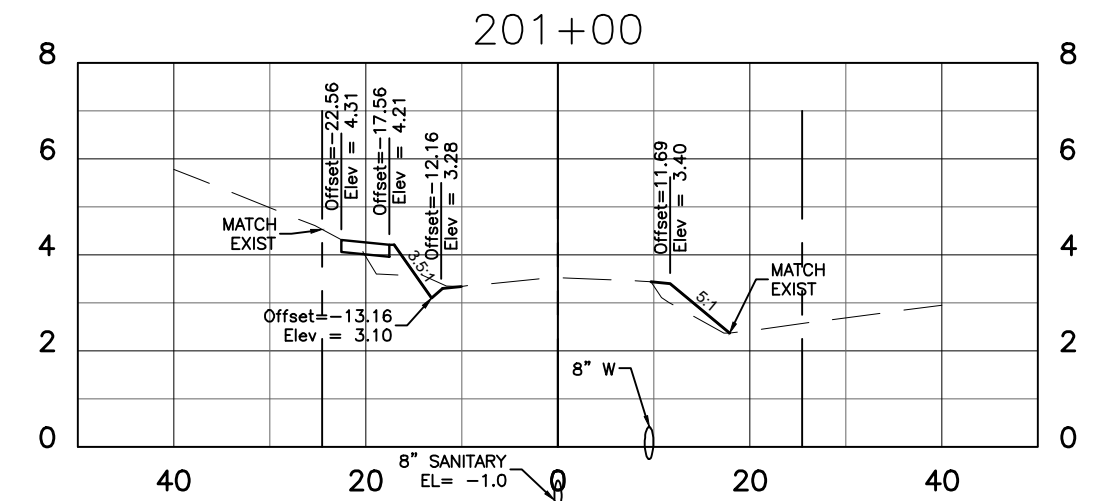
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0	0	0	0
0	0	0	0
0	0	0	0



0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####

JOHN K. PARI
FLORIDA P.E. # 56368

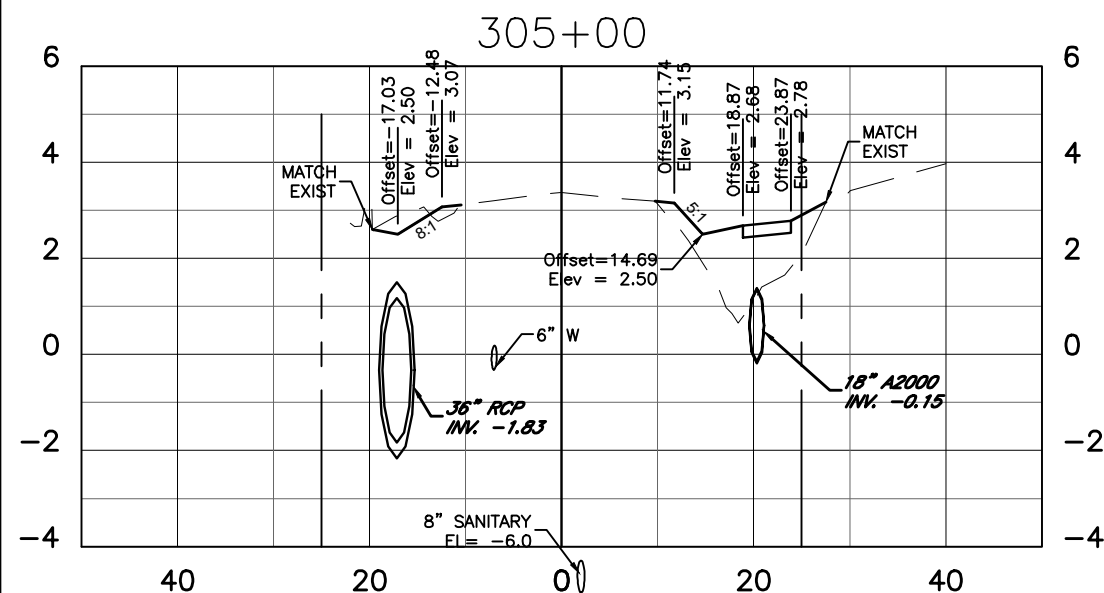
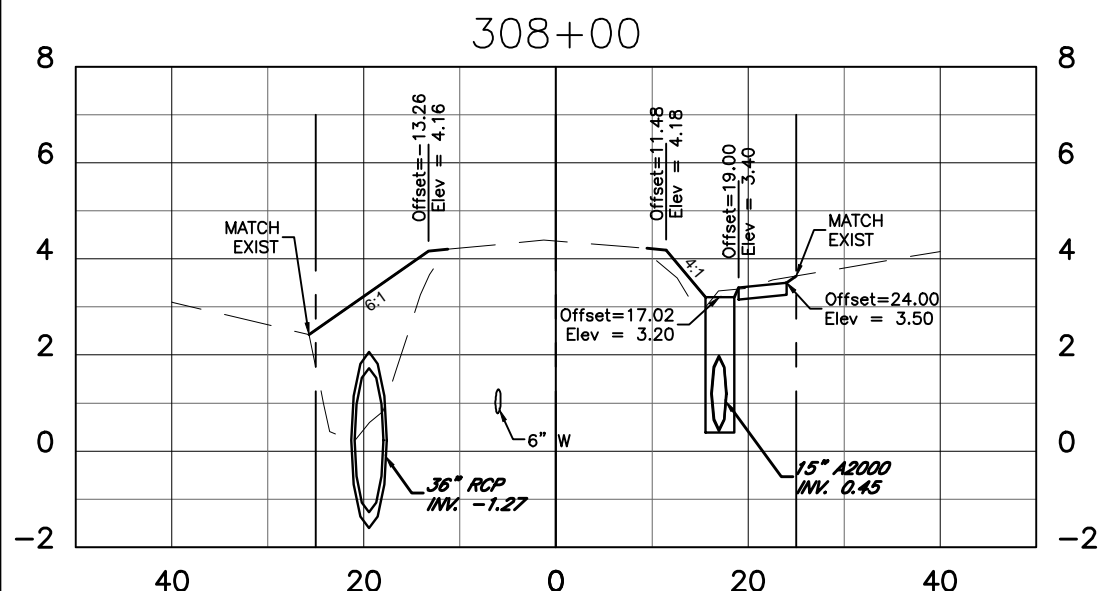
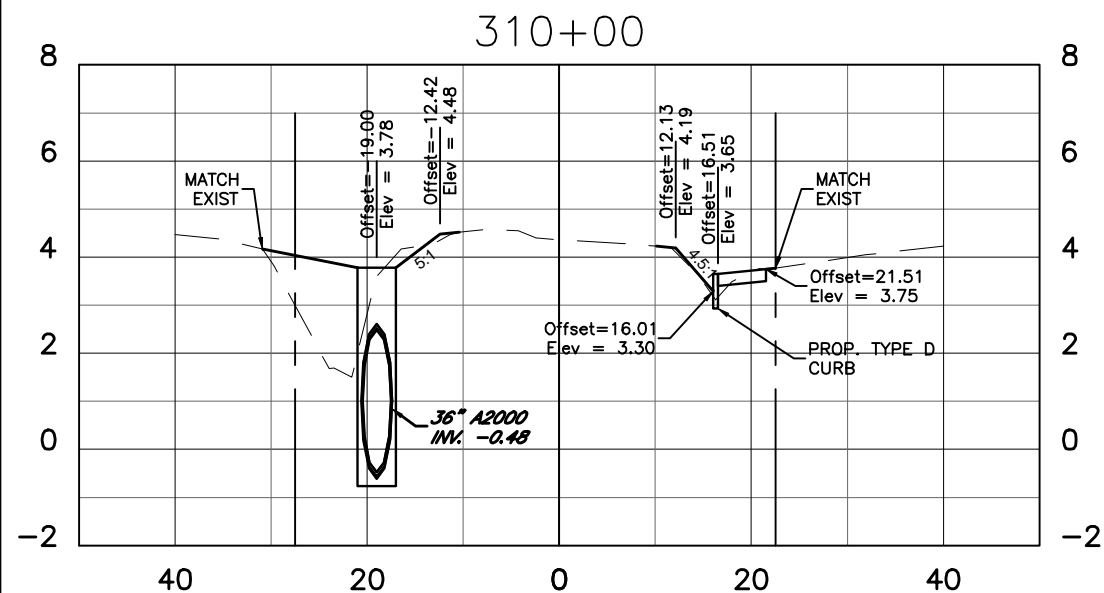
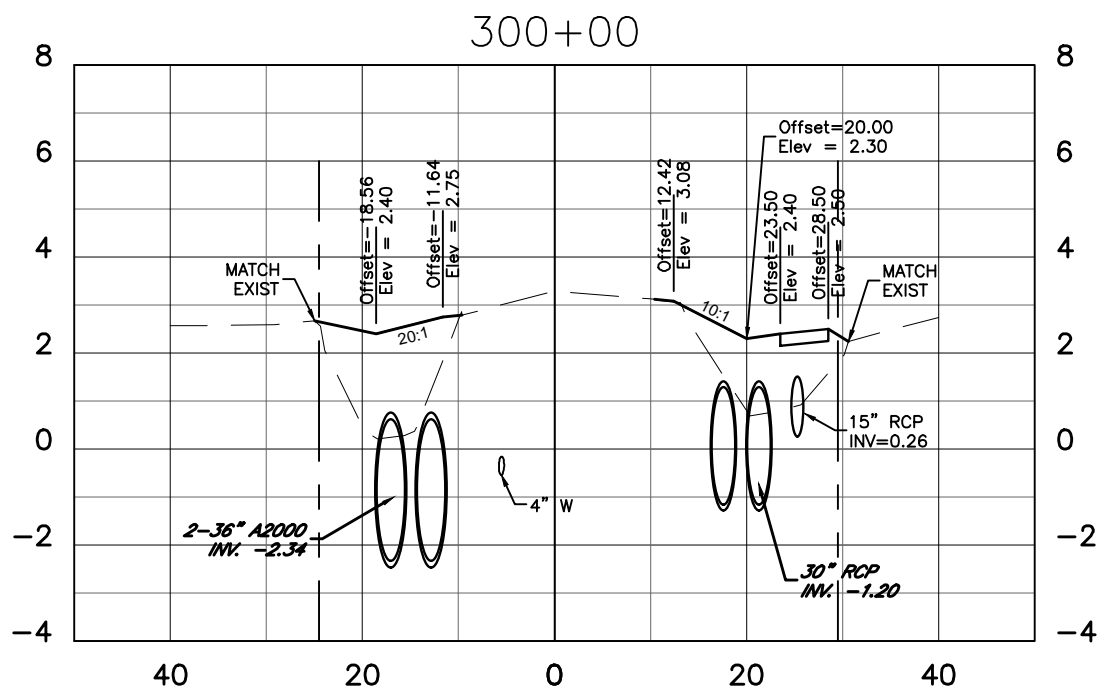
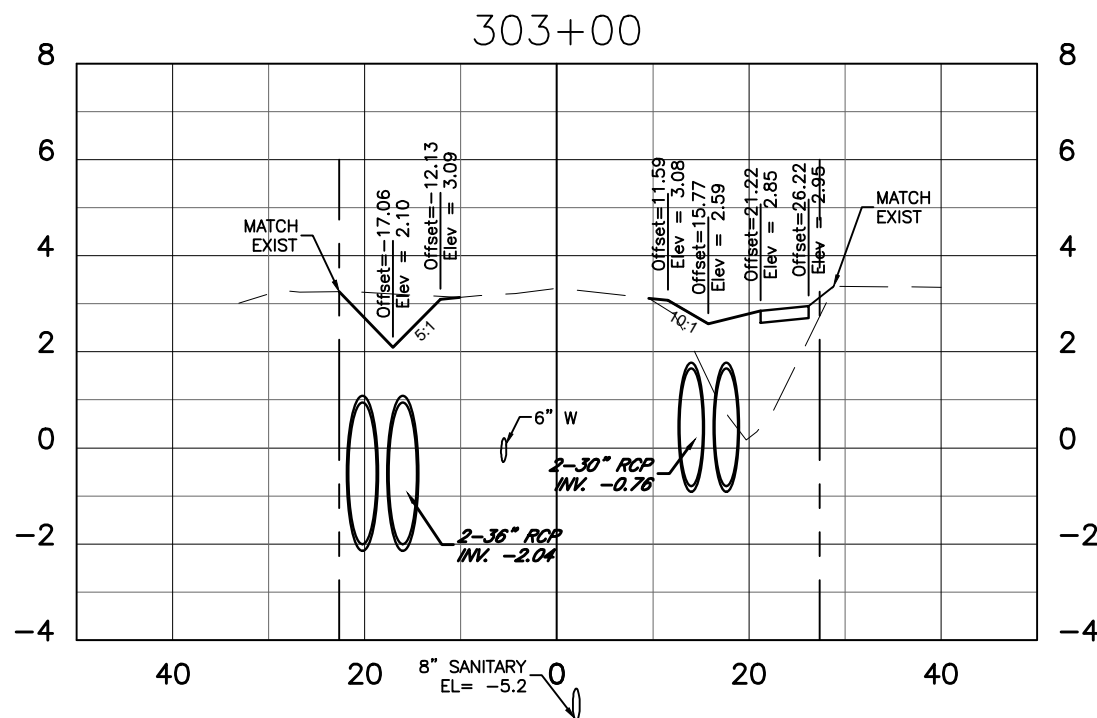
Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
69th Street Court East
CROSS SECTION

SHEET NO.
33



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

DATE	DESCRIPTION	DATE

PROJECT #	304-6093460	SURVEYED	FDC	DATE	4-11-18
SURVEY #	0577-0036	DESIGNED	JKP	DATE	06/2018
SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	DATE	06/2018
SCALE	AS SHOWN	CHECKED	###		#####

JOHN K. PARI
FLORIDA P.E. # 56368

Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

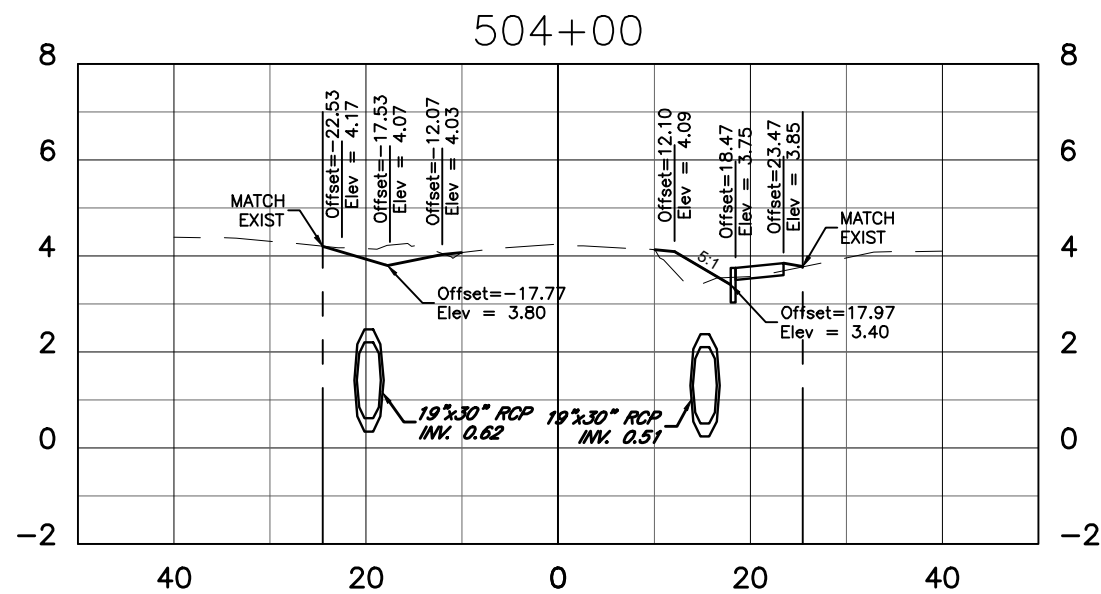
RUBONIA
11th Avenue East
CROSS SECTION

SHEET NO.
34

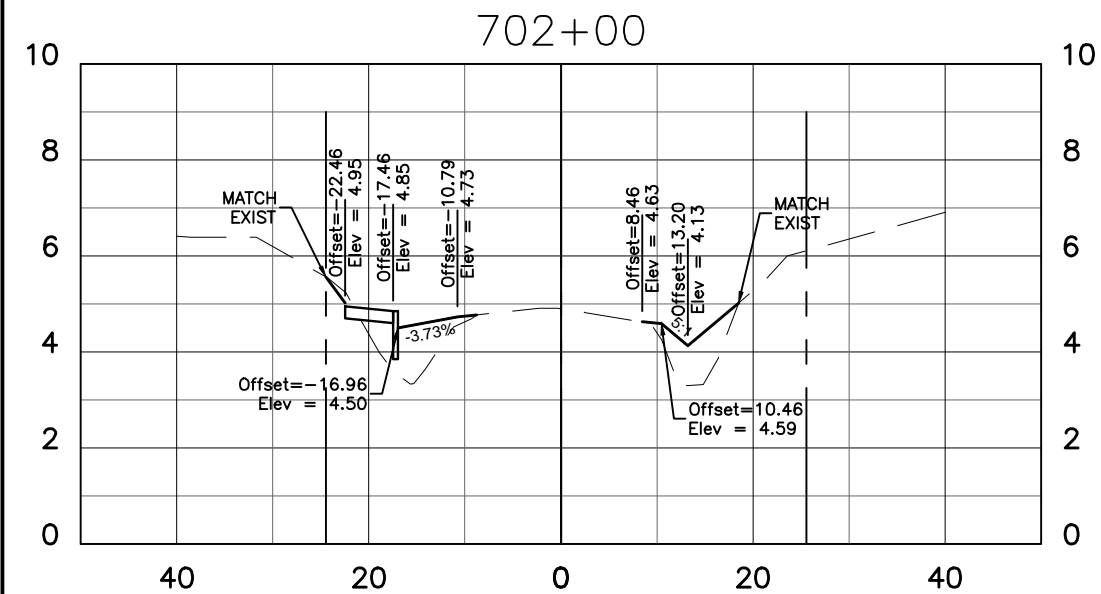


Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

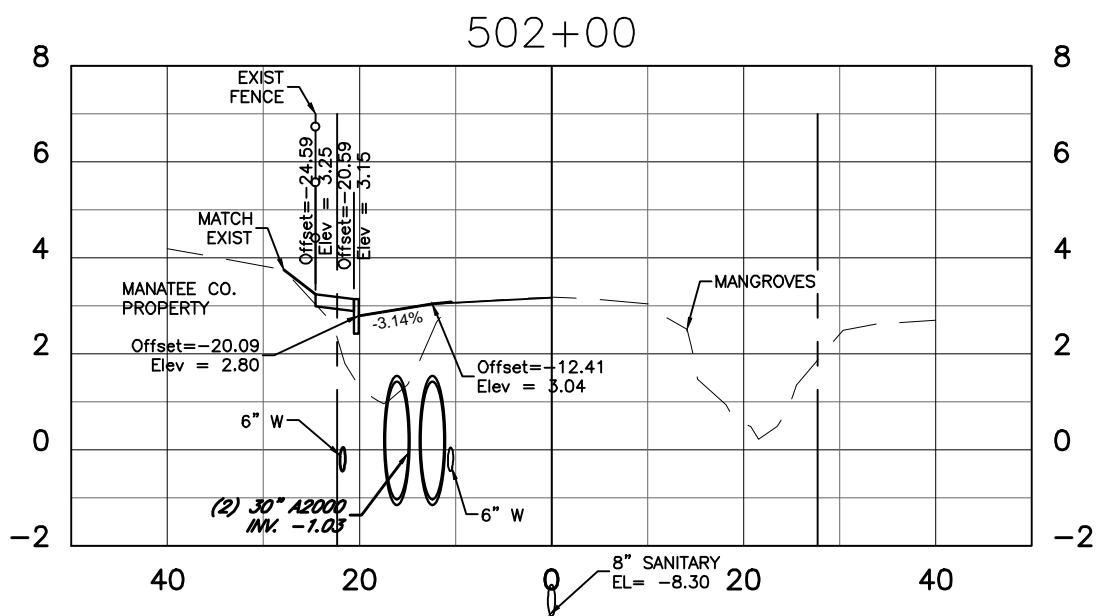
Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³



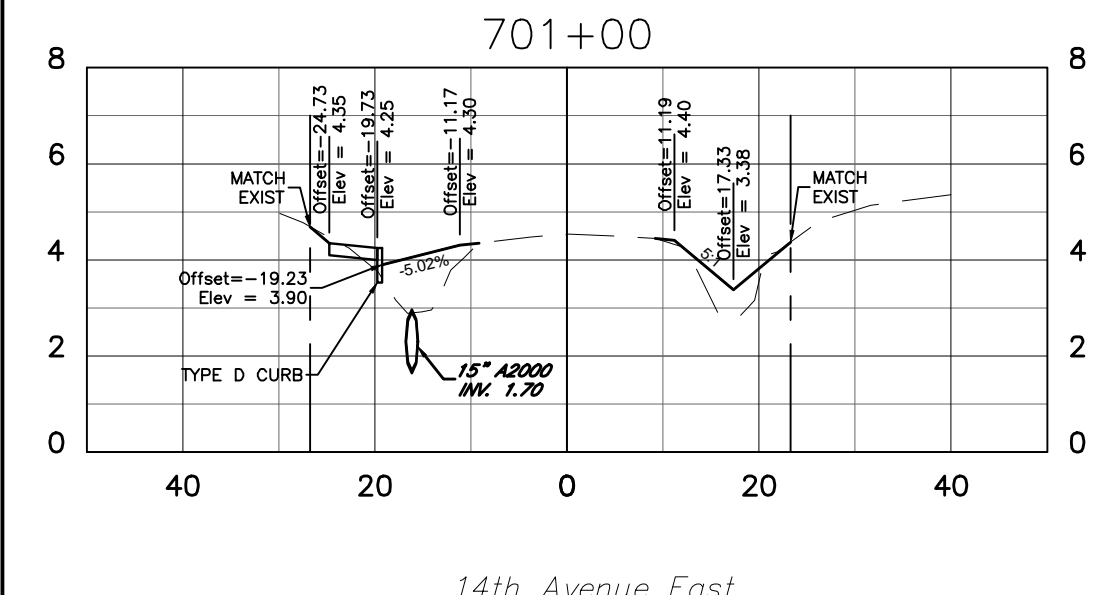
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0	0	0	0
0	0	0	0
0	0	0	0



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12th Avenue Drive East

14th Avenue East

JOHN K. PARI
FLORIDA P.E. # 56368



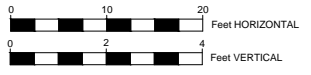
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
12th Avenue Drive East & 14th Avenue East
CROSS SECTION

Signature & Date

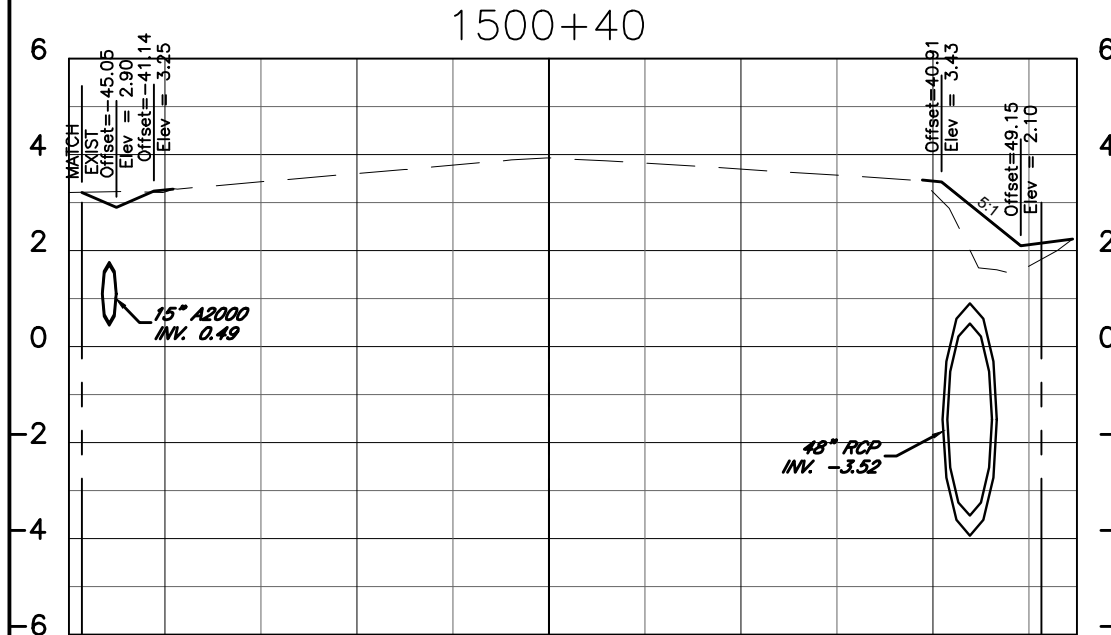
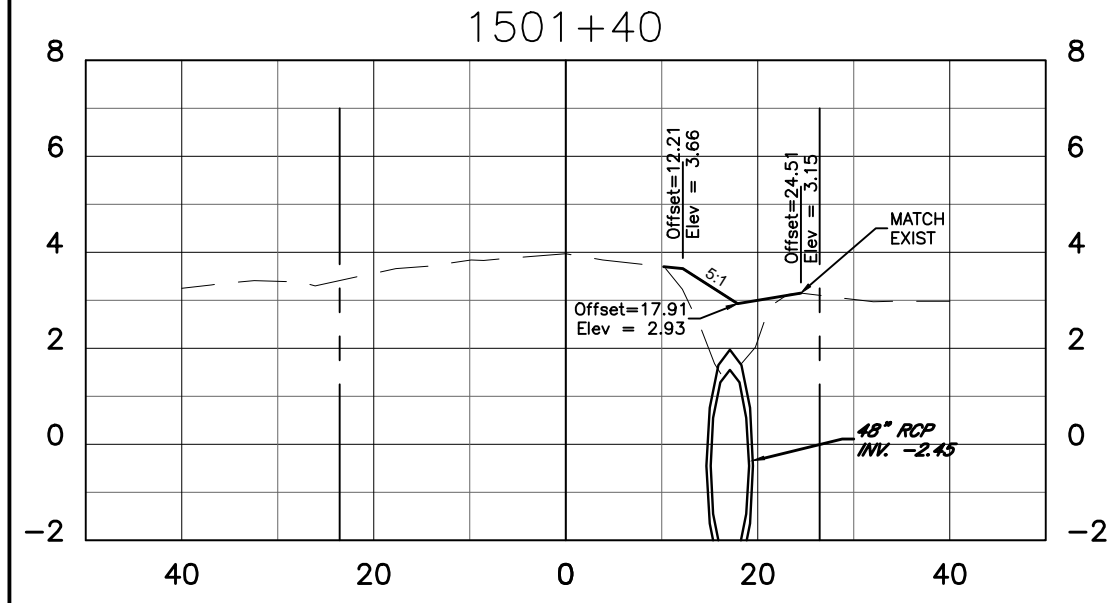
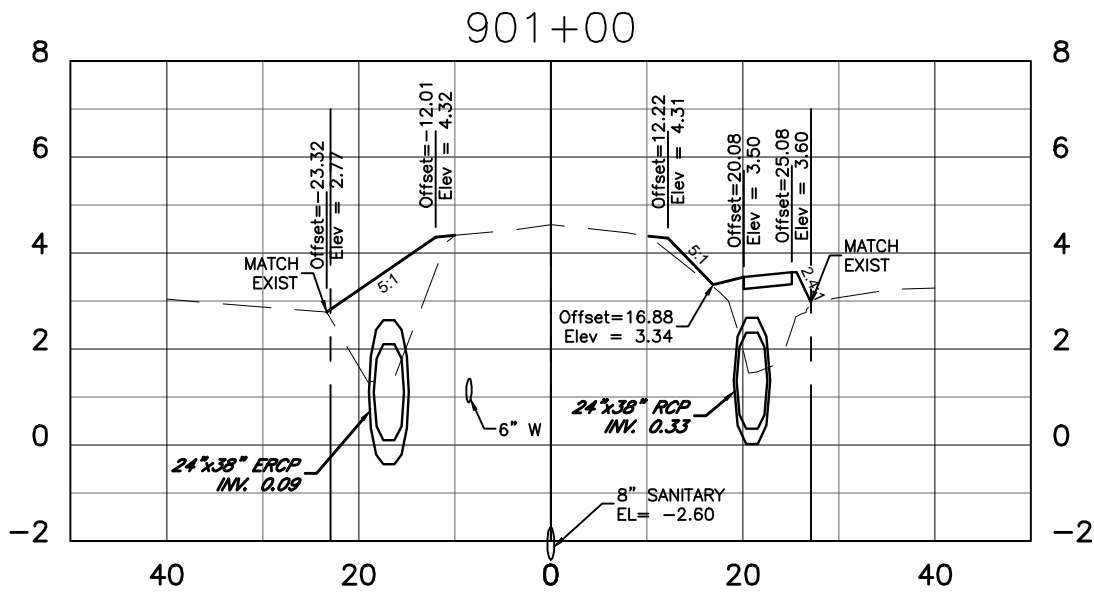
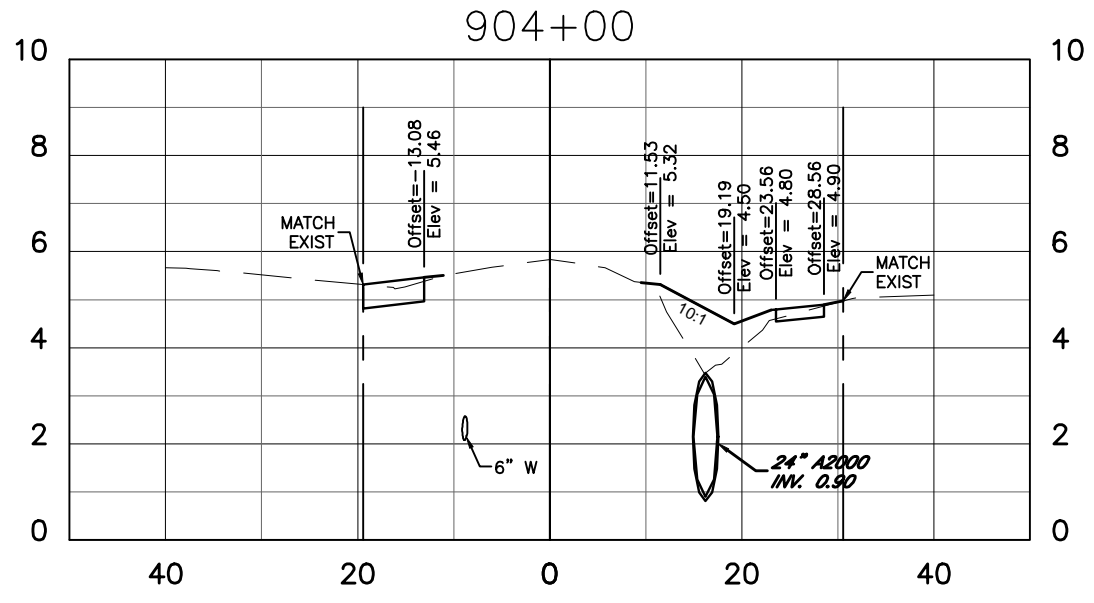
SHEET NO.
35

DATE	DESCRIPTION	DATE	PROJECT #	304-6093460	SURVEYED	FDC	4-11-18
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	06/2018
			SCALE	AS SHOWN	CHECKED	###	#####



Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³

Regular Exc.		Embankment	
A ft ²	V ft ³	A ft ²	V ft ³




0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	4-11-18
			304-6093460			
			0577-0036	DESIGNED	JKP	06/2018
			25/33S/17E	DRAWN	KHL	06/2018
			AS SHOWN	CHECKED	###	#####

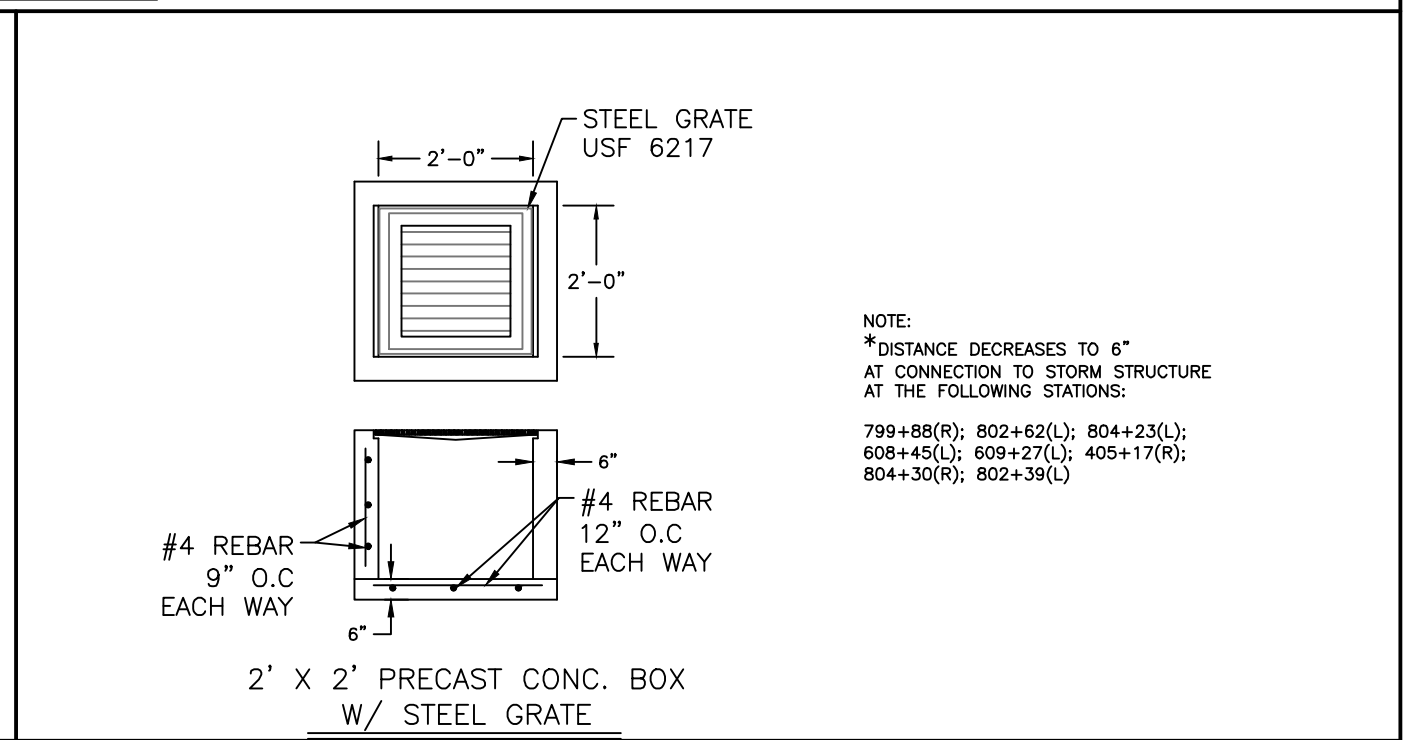
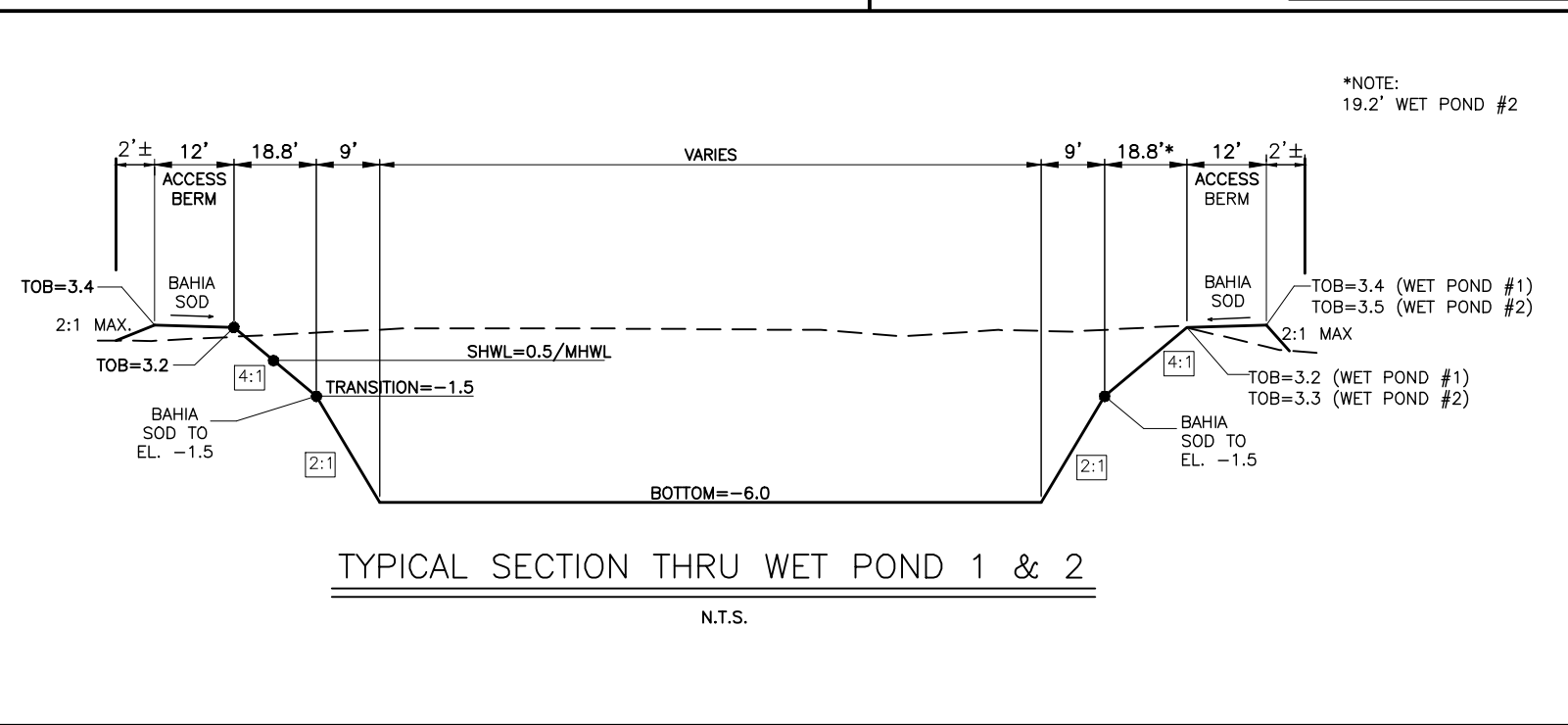
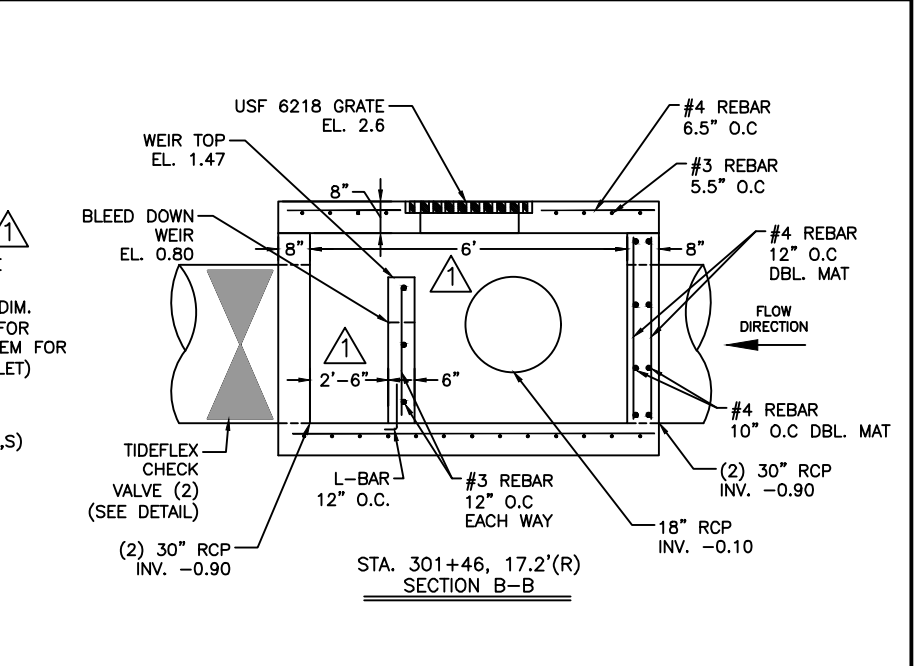
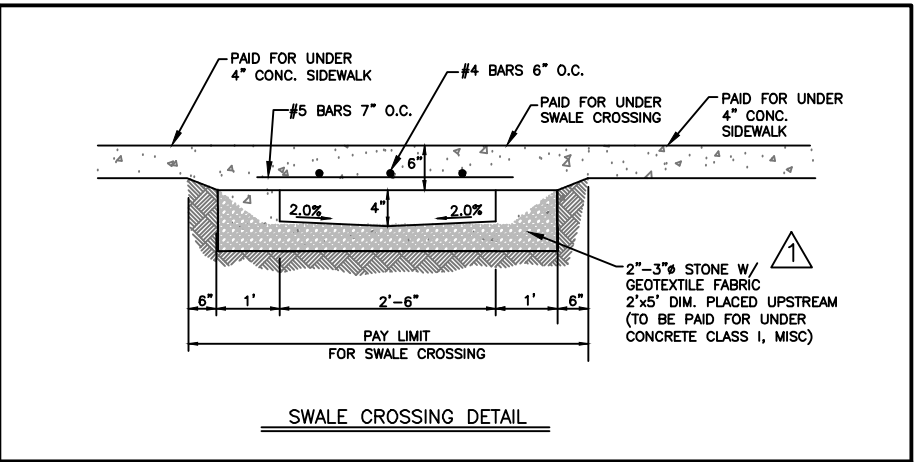
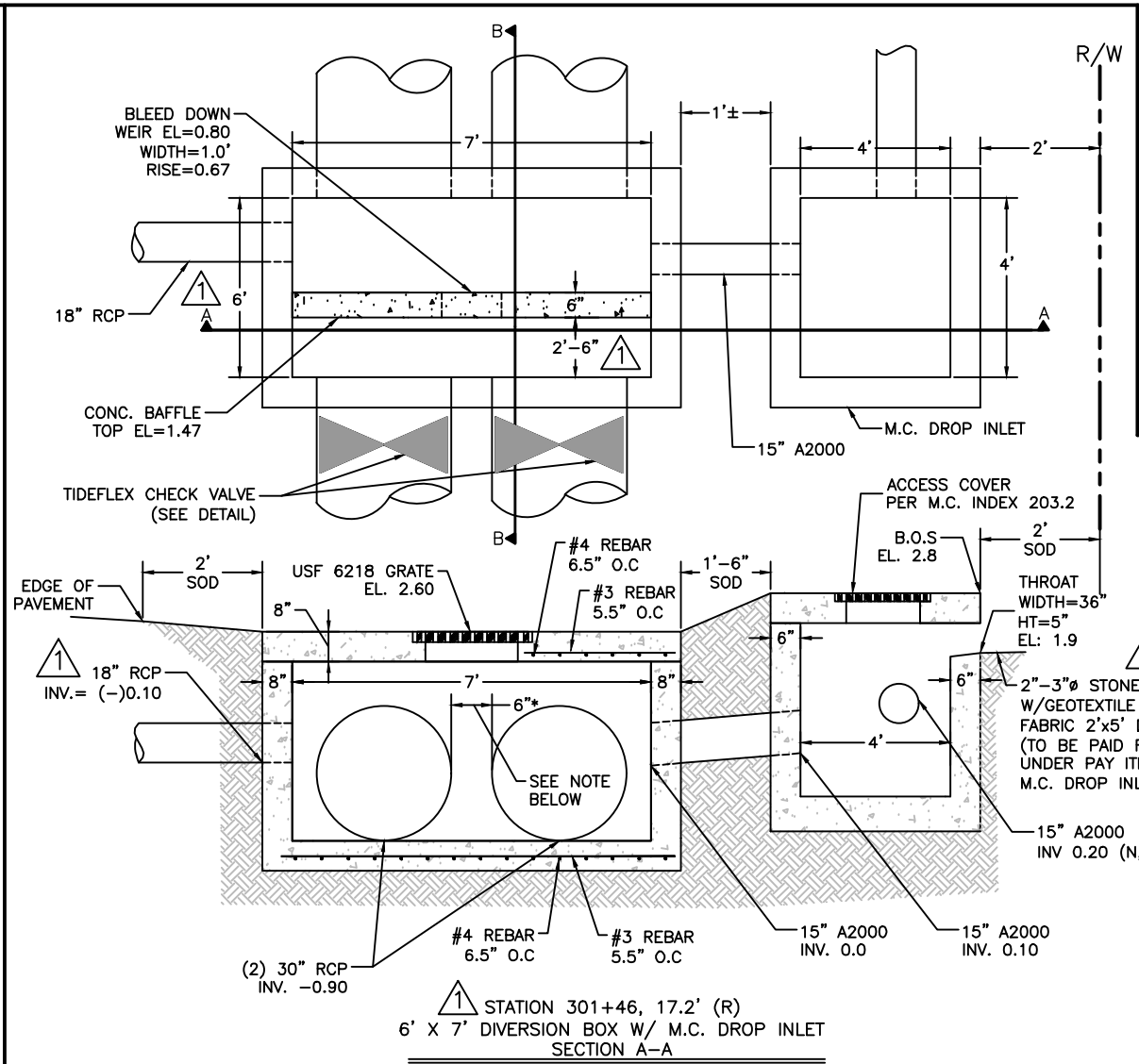
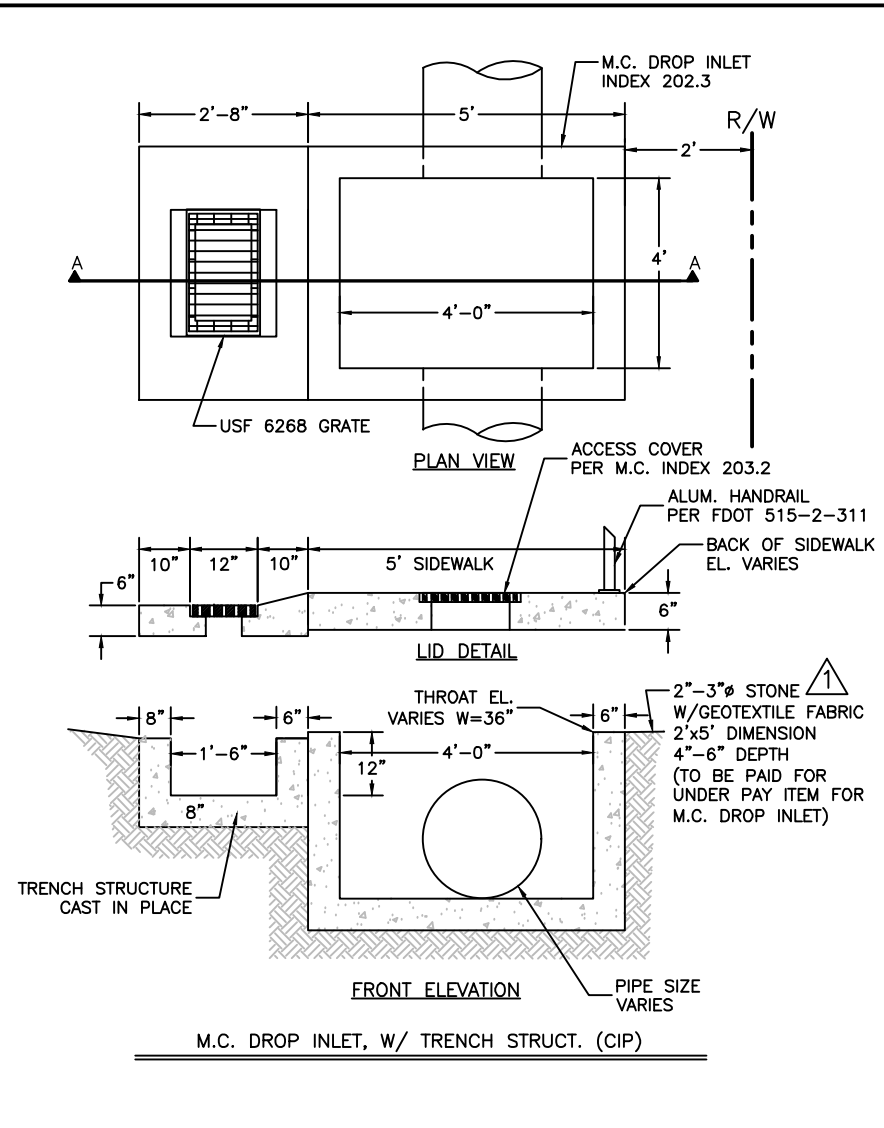
JOHN K. PARI
FLORIDA P.E. # 56368

Signature & Date

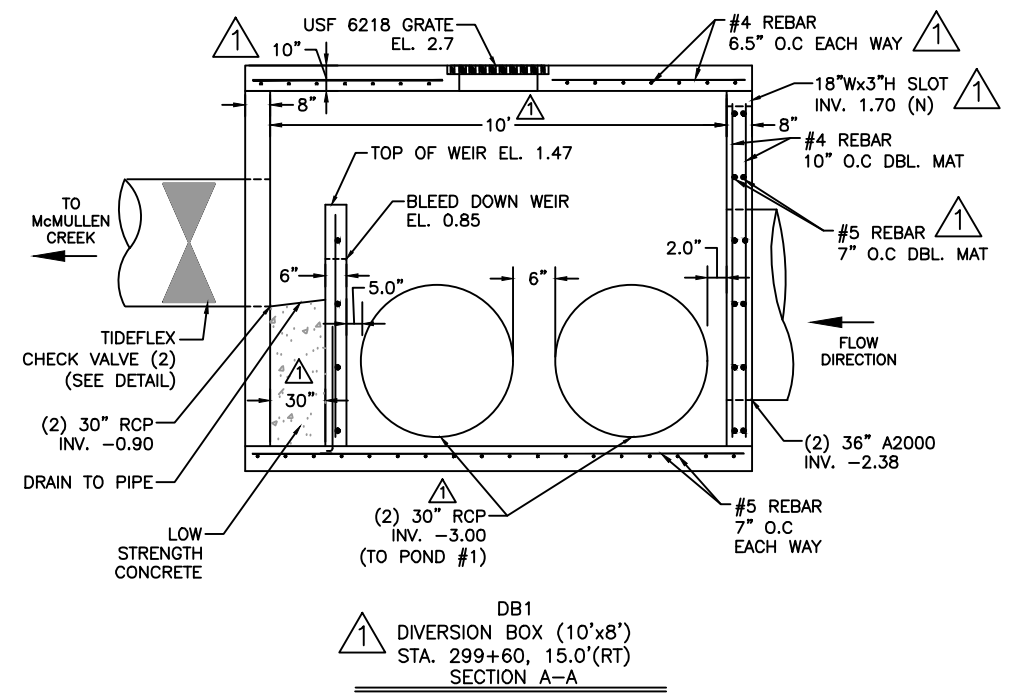
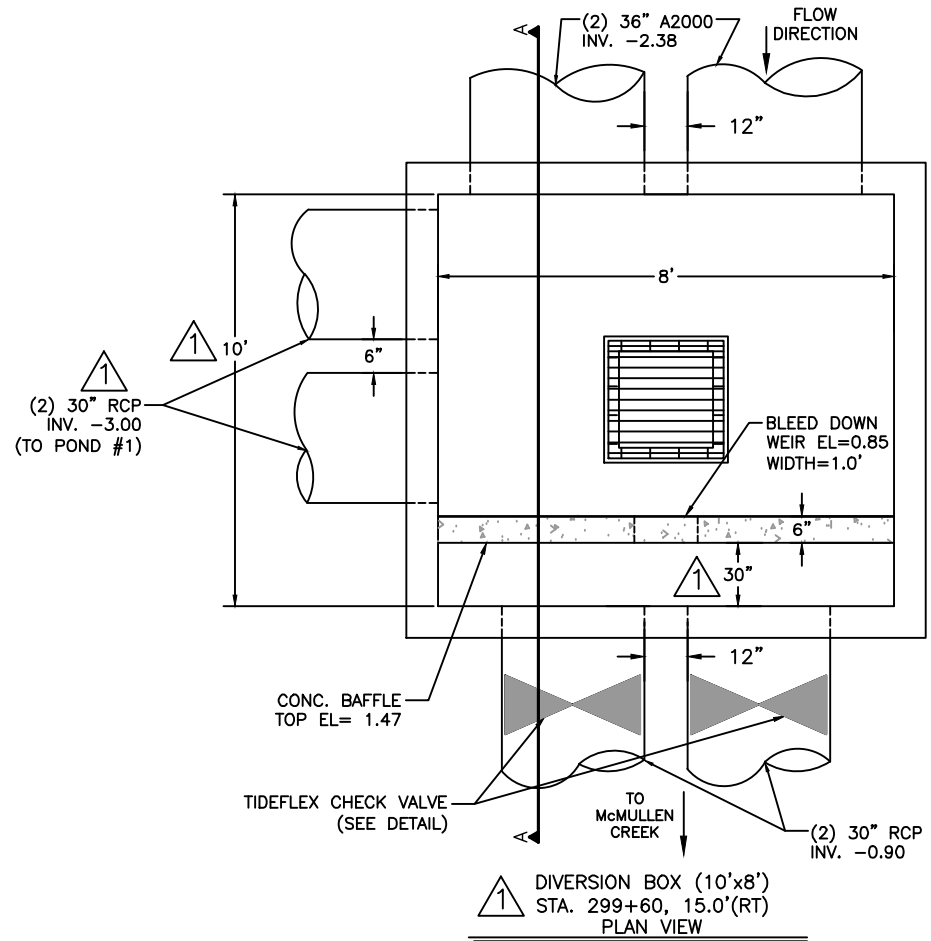
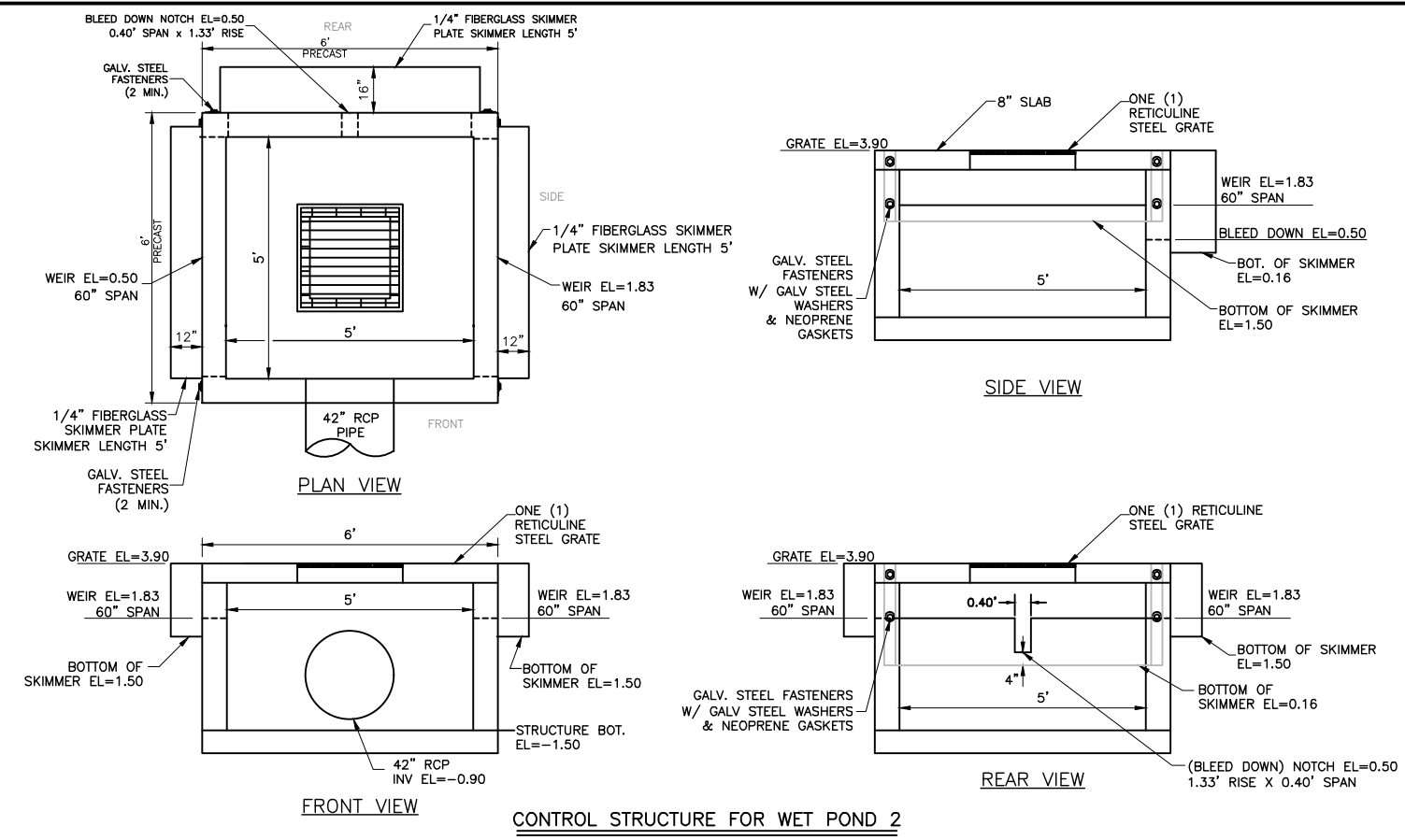
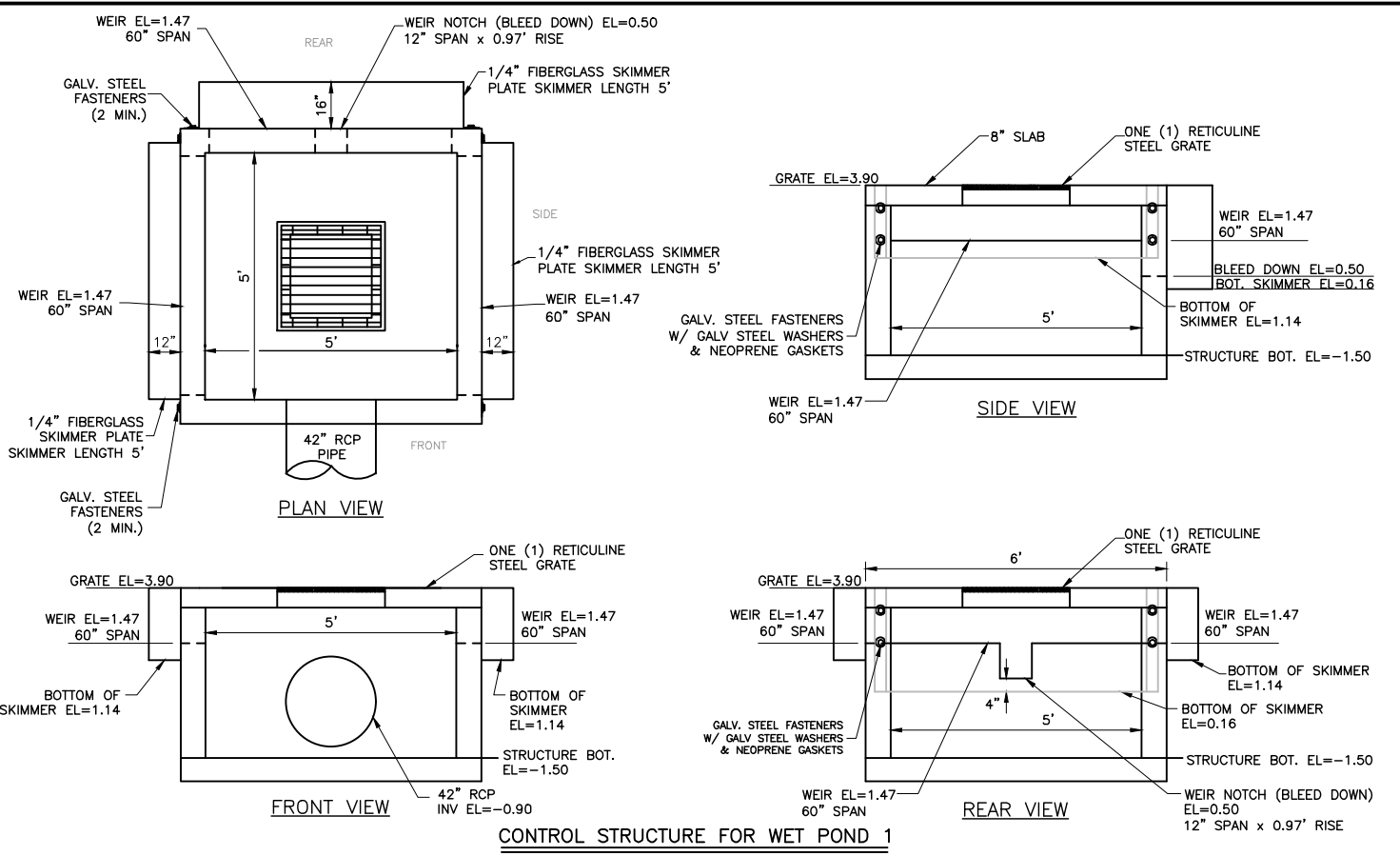


**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
15th Avenue East & 15th Avenue Drive East
CROSS SECTION
SHEET NO. 36



DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18	JOHN PARI, P.E. FLORIDA P.E. # 56368 Signature & Date	Manatee County PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DRAINAGE REHABILITATION RUBONIA DRAINAGE DETAILS	SHEET NO.
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX				97
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18				
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX				



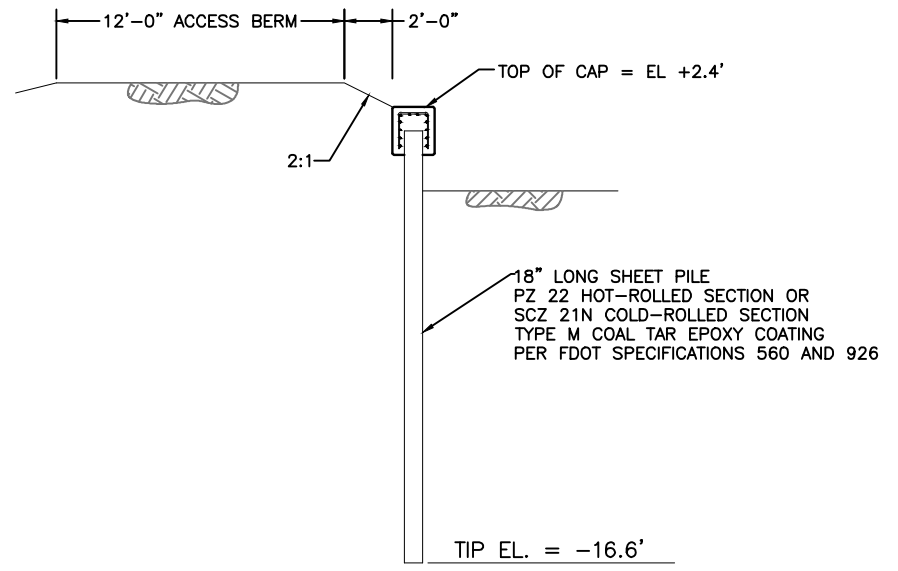
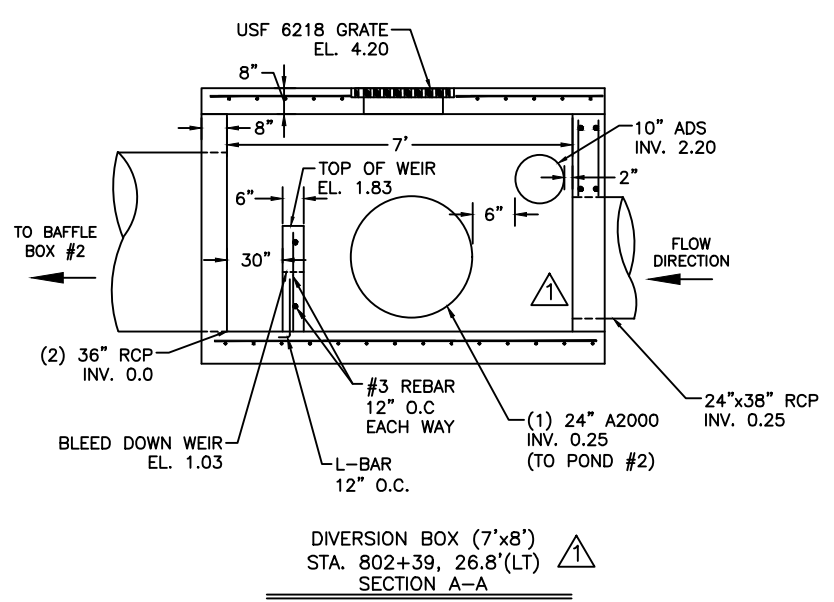
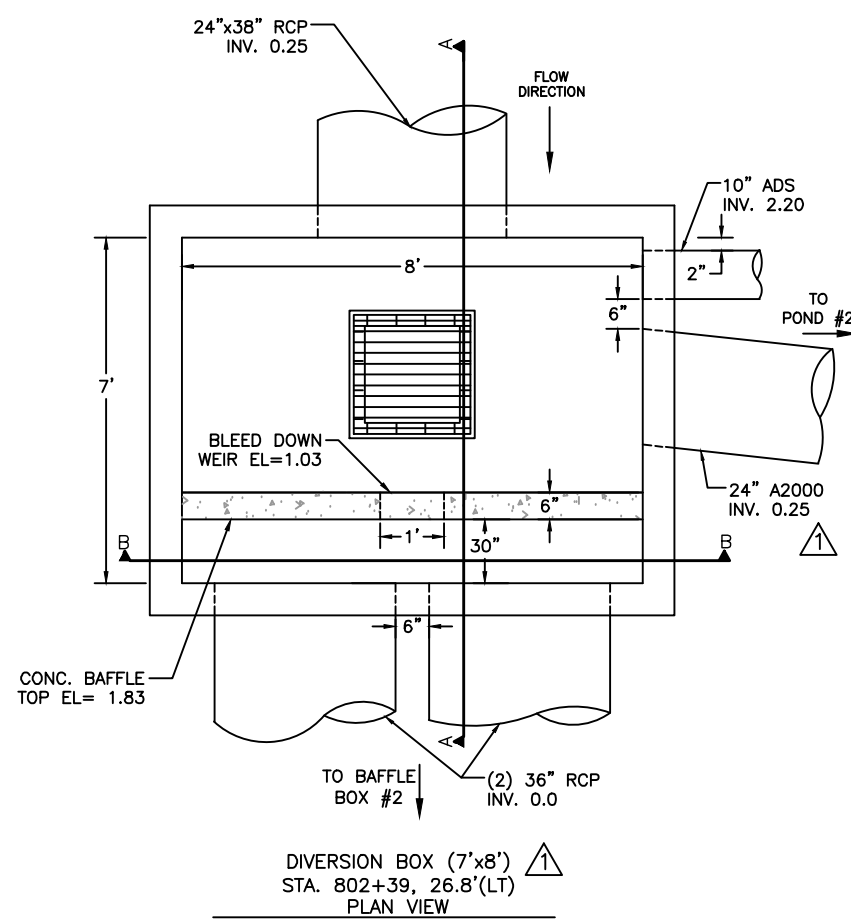
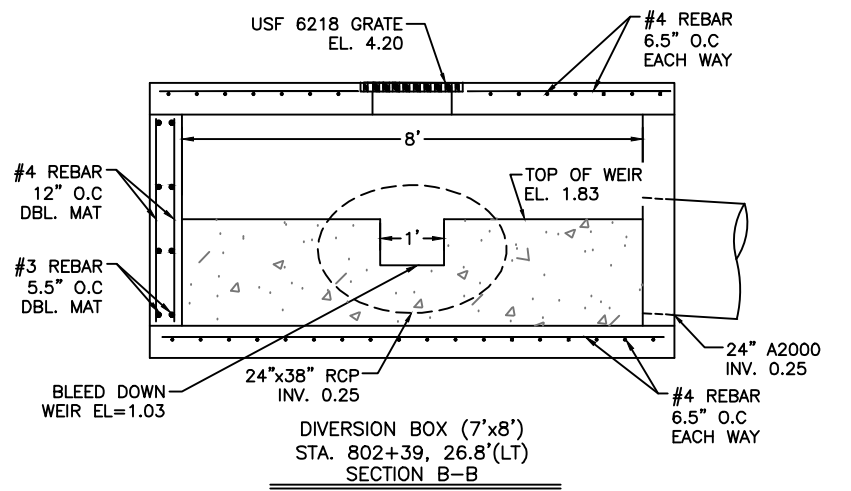
H:\Highway_Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_Details_recover.dwg

DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FDC	03/08/18
	Addendum # 1	6/18/20	000-000000	0577-0036	XXX	XX/XXXX
			25/33S/17E	DRAWN	KHL	03/13/18
			N.T.S.	CHECKED	XXX	XX/XXXX

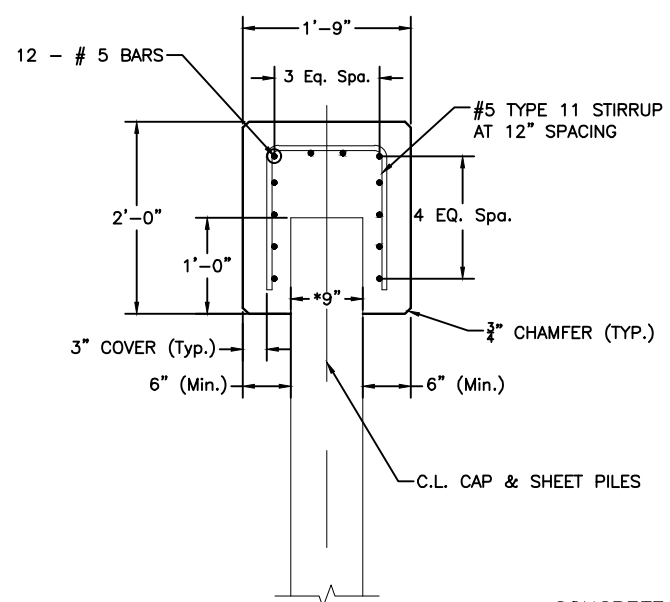
JOHN PARI, P.E.
FLORIDA P.E. # 56368
 Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

DRAINAGE REHABILITATION
RUBONIA
DRAINAGE DETAILS



TYPICAL SECTION
(Scale 1/8" = 1')



SECTION A-A
(Scale: 1/2" = 1')

CONCRETE FOR CAP TO BE CLASS IV
f'c = 5500 PSI

* FOR COLD-ROLLED SECTIONS, INCREASE TO 10".

SHEET PILING DETAILS

H:\Highway Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_Details_recover.dwg

DATE	DESCRIPTION	DATE	PROJECT #	000-0000000	SURVEYED	FDC	03/08/18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

JOHN PARI, P.E.
FLORIDA P.E. # 56368

Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

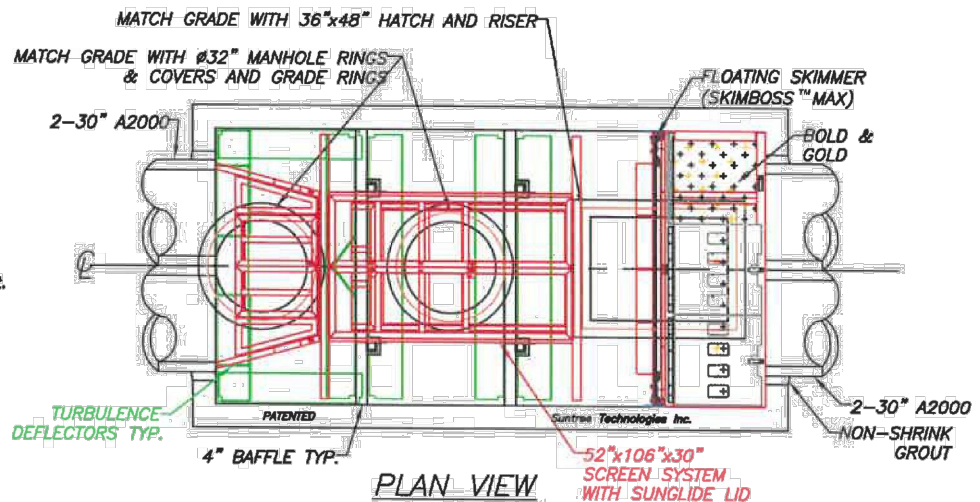
**DRAINAGE REHABILITATION
RUBONIA
DRAINAGE DETAILS**

SHEET NO.
37B

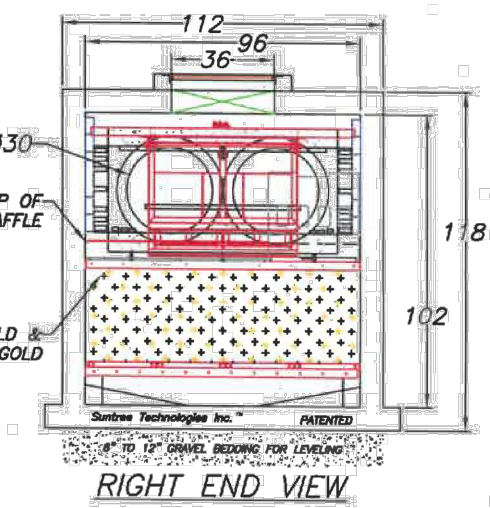
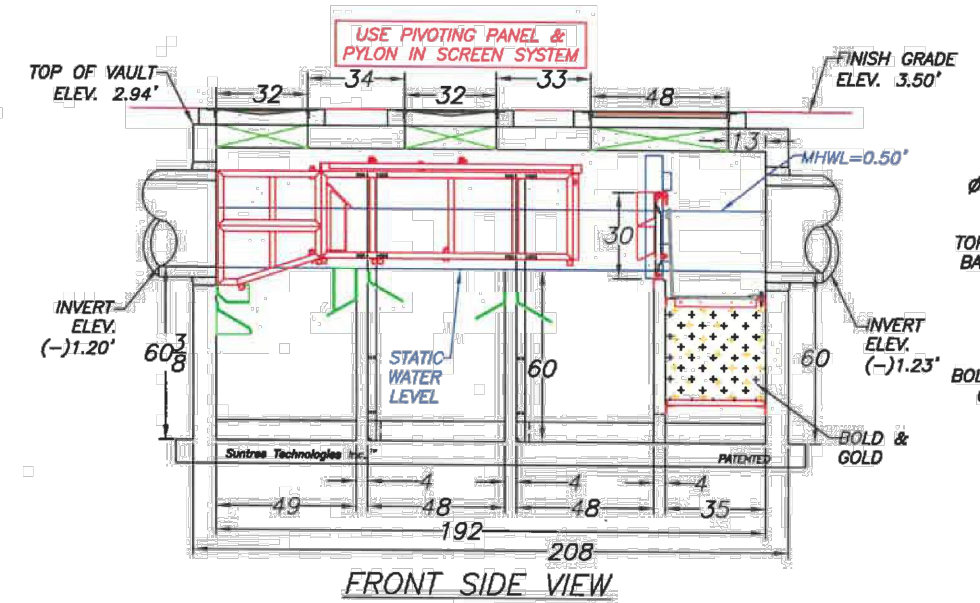
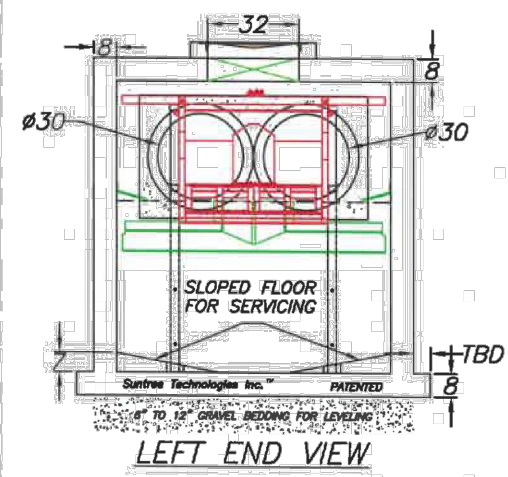
SUNTREE TECHNOLOGIES INC.™ NUTRIENT SEPARATING BAFFLE BOX™ MODEL NO: NSBB+UFF-8-16

- FLOW & BY-PASS SPECIFICATIONS FOR BIOMASS SEPARATING SCREEN SYSTEM AND MEDIA SPECIFICATIONS**
1. Pipe inflow area (Drawn as 2-30" A2000) — 9.81 sq.ft.
- SCREEN SPECIFICATIONS:**
2. Open orifice area in screen system — 59.95 sq.ft.
 3. Open orifice area in screen system with 50% blockage — 29.97 sq.ft.
 4. Open orifice area in screen system with 75% blockage — 14.98 sq.ft.
 5. Minimum by-pass through screen system below the ceiling of the pipe — 17.40 sq.ft.
 6. Minimum by-pass around screen system below the ceiling of the pipe — 17.66 sq.ft.
 7. Screen system storage volume — 102.87 cu.ft.
- MEDIA SPECIFICATIONS:**
8. Volume of media — 63.00 cu.ft.

PATENTED AND PATENTS PEND.
 Suntree Technologies Inc.
 798 Clearlake Road, Cocoa, Florida 32922
 PH: 321-637-7552 Fax: 321-637-7554



- INSTALLATION NOTES:**
1. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
 2. INVERT OF OUTFLOW PIPE SHOULD BE EVEN WITH THE TOP OF THE BAFFLES.
 3. BAFFLES SHOULD BE SEALED WITH GROUT.
 4. THE BOTTOM OF THE SKIMMER SHOULD REST ON TOP OF LAST BAFFLE.
 5. INVERT OF THE INFLOW PIPE SHOULD NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.



- NOTES:**
1. CONCRETE 28 DAY COMPRESSIVE STRENGTH FC=5000 PSI
 2. REINFORCING: ASTM A-615 GRADE 60
 3. SUPPORTS AN H2O LOADING AS INDICATED BY AASHTO.
 4. JOINT SEALANT: BUTYL RUBBER SS-S-00210
 5. ALL WALLS TO BE 8" THICK, BOTTOM TO BE 8" THICK, AND TOP TO BE 8" THICK.
 6. TREATMENT DESIGN FLOW FOR 80% REMOVAL EFFICIENCY OF TSS IS 32 CFS.
 7. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
 8. BAFFLES ARE TO BE SEALED WITH GROUT TO FORM 4 WATER TIGHT CHAMBERS.

SUNTREE TECHNOLOGIES INC.™ 798 CLEARLAKE RD, SUITE #2 COCOA FL 32922		PROJECT LOC: FLORIDA FERGUSON	CAD D.B.S.	REVISIONS ELEVATIONS: BOX TO 8-18;	DATE 08/30/19
NUTRIENT SEPARATING BAFFLE BOX MODEL NO: NSBB+UFF-8-16		PROJECT NAME: RUBONIA SUBDMISON BOX 1			
START DATE: 11/26/18	SCALE: N/A				
DRAFTER: TH4	UNITS: INCHES				
CHECKED BY: DB5	PO #: 00000	04-11-26-18-01			

\\bcc\dfs\p\Engineering\Share\Highway_Engineering\PROJ\SIDEWALKS\Rubonia\DWG\Rubonia_Details.dwg

DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18
			SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

JOHN PARI, P.E.
 FLORIDA P.E. # 56368

Signature & Date

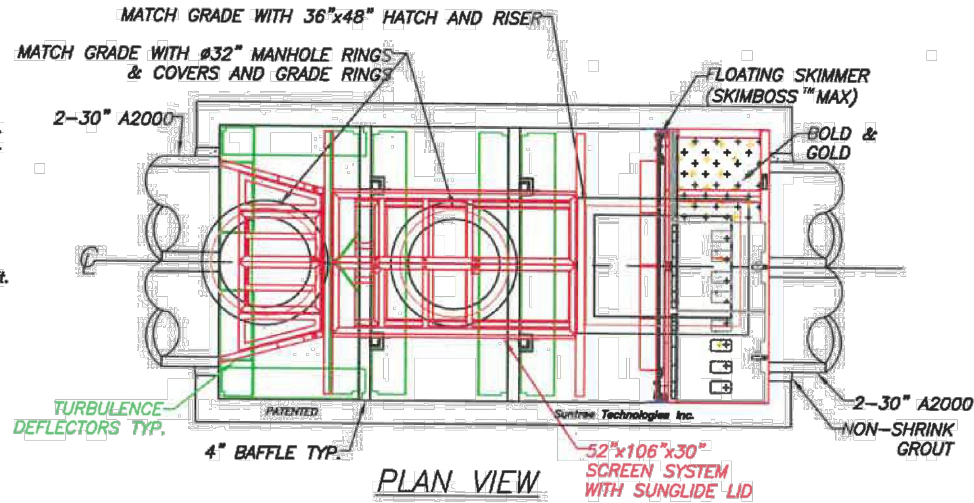
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

**DRAINAGE REHABILITATION
 RUBONIA
 DRAINAGE DETAILS 2**

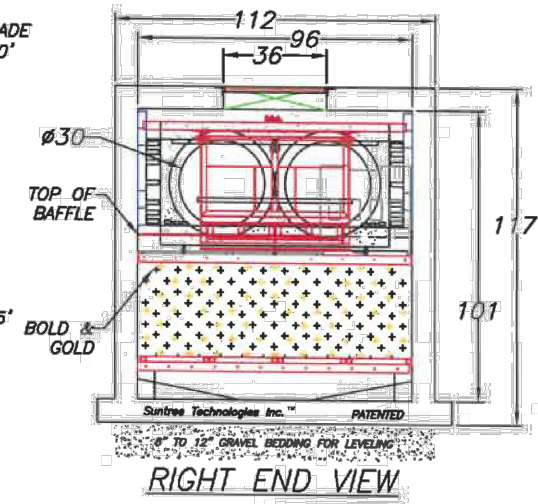
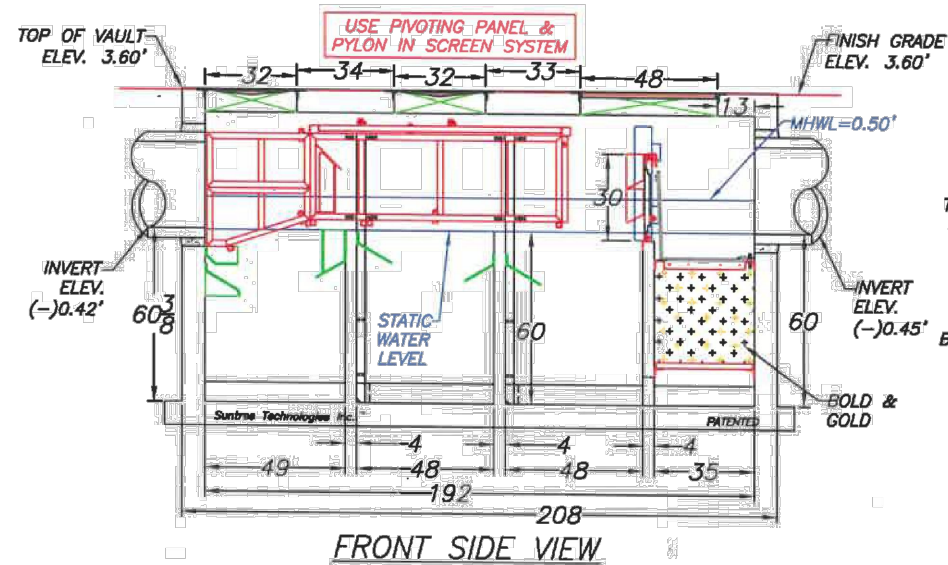
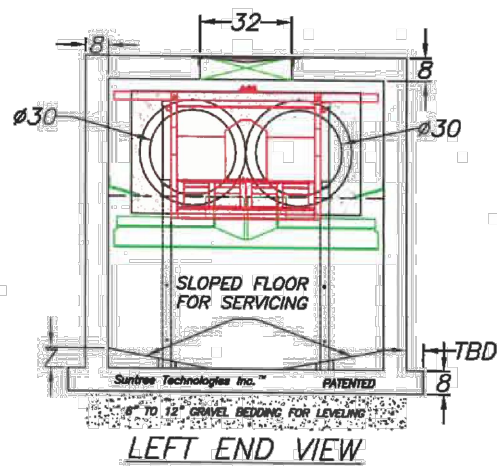
SUNTREE TECHNOLOGIES INC.™ NUTRIENT SEPARATING BAFFLE BOX™ MODEL NO: NSBB+UFF-8-16

- FLOW & BY-PASS SPECIFICATIONS FOR BIOMASS SEPARATING SCREEN SYSTEM AND MEDIA SPECIFICATIONS**
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- SCREEN SPECIFICATIONS:**
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- MEDIA SPECIFICATIONS:**
8. Volume of media — 63.00 cu.ft.

PATENTED AND PATENTS PENDING
 Suntree Technologies Inc.
 798 Clearlake Road, Cocoa, Florida 32922
 PH: 321-637-7552 Fax: 321-637-7554



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 2. REINFORCING: ASTM A-615 GRADE 60
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 8. BAFFLES ARE TO BE SEALED WITH GROUT TO FORM 4 WATER TIGHT CHAMBERS.

SUNTREE TECHNOLOGIES INC. 798 CLEARLAKE RD. SUITE #2 COCOA, FL. 32922		PROJECT LOG: FLORIDA FERGUSON	CAD	REVISIONS	DATE
NUTRIENT SEPARATING BAFFLE BOX MODEL NO: NSBB+UFF-8-16		PROJECT NAME: RUBONIA SUBDIVISION BOX 2	D.B.S.	ELEVATIONS: BOX TO 8-16;	08/30/19
START DATE: 11/26/18	SCALE: N/A				
DRAFTER: TH4	UNITS: INCHES				
CHECKED BY: DB5	PO #: 00000	04-11-26-18-02			

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DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18
			SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

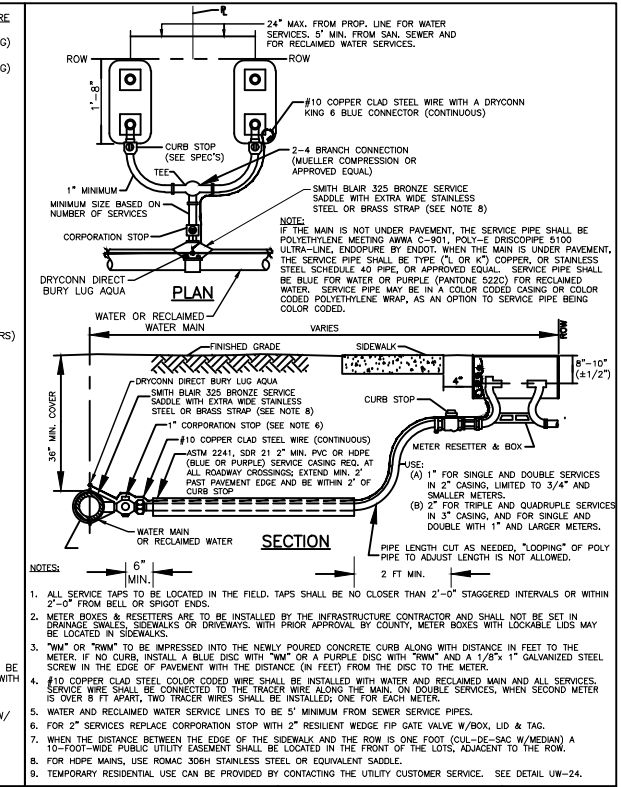
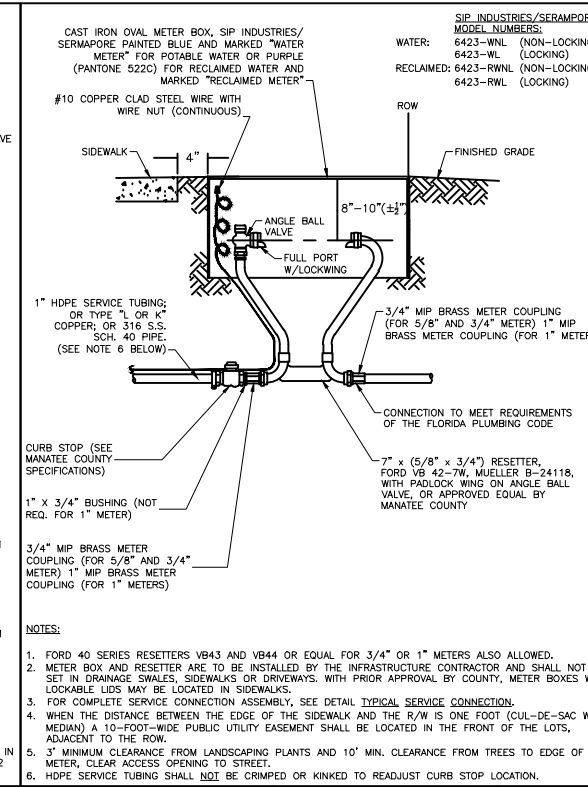
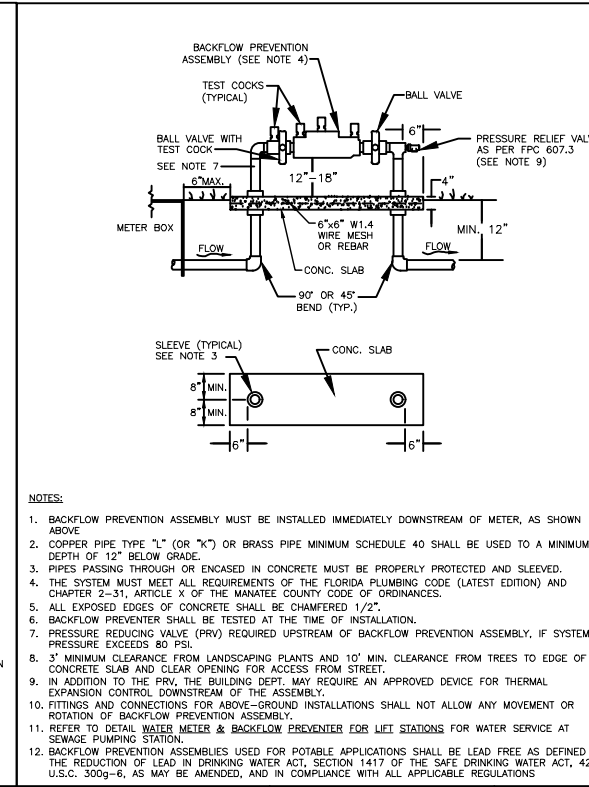
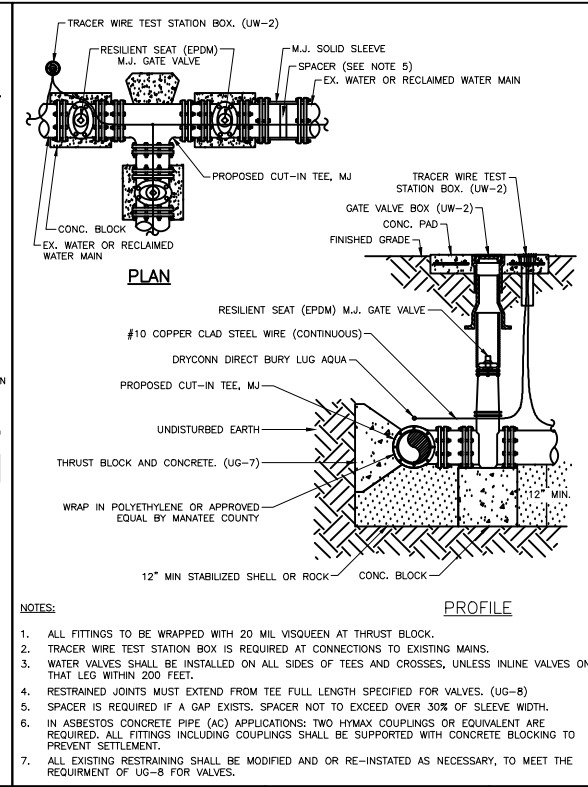
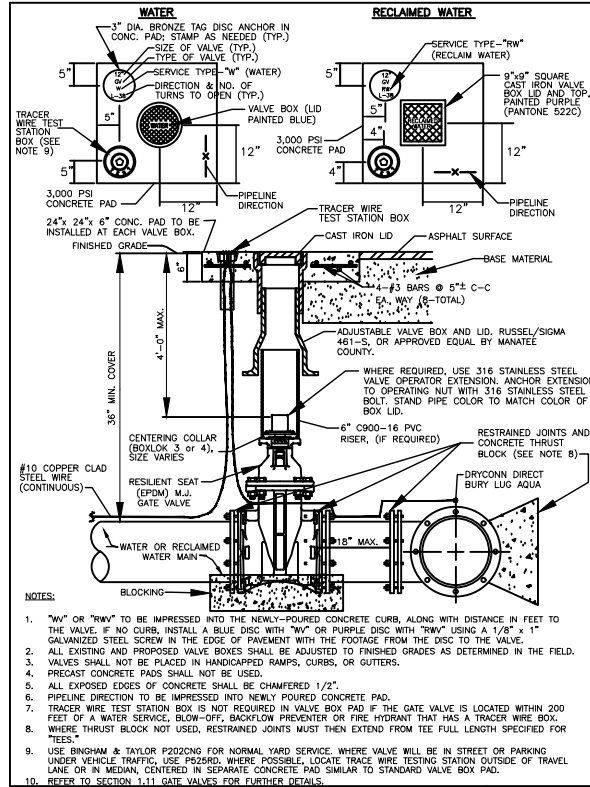
JOHN PARI, P.E.
 FLORIDA P.E. # 56368

Signature & Date

Manatee County
 FLORIDA

PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

**DRAINAGE REHABILITATION
 RUBONIA
 DRAINAGE DETAILS 3**



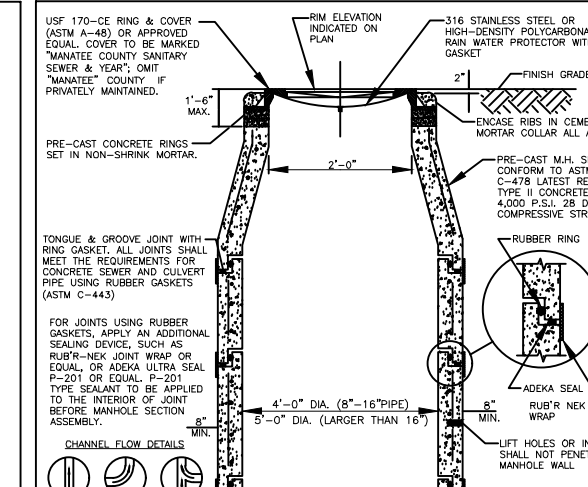
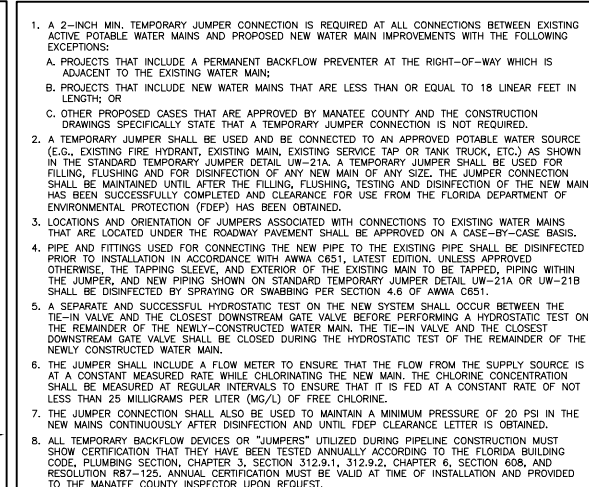
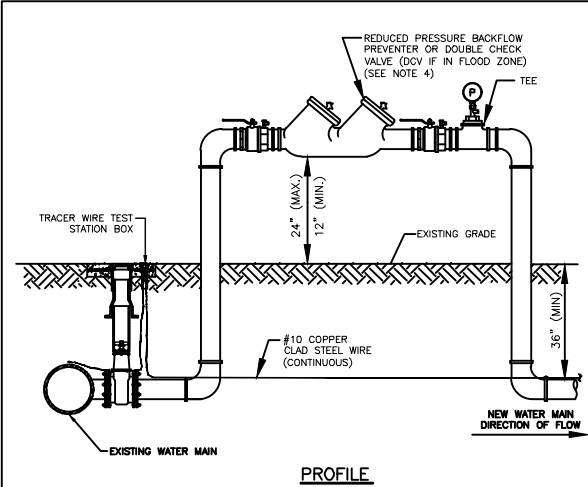
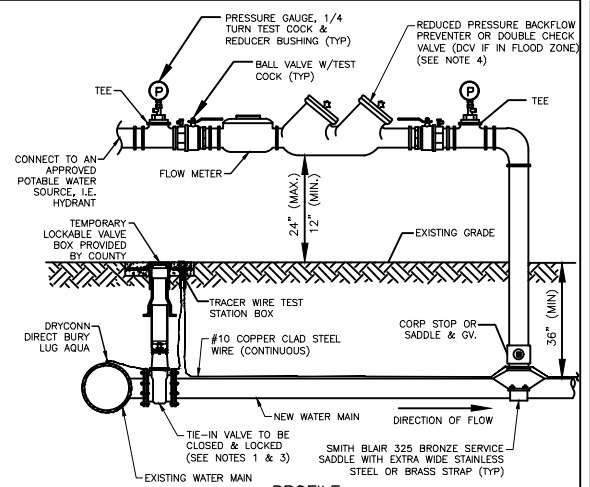
REV. BY	DATE	DATE OF APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	GATE VALVE, BOX, LID AND TAG	UW-2
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	CUT-IN TEE	UW-4
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	3/4" & 1" BACKFLOW PREVENTER	UW-12
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	METER BOX ASSEMBLY FOR 5/8" x 3/4", 3/4" & 1" METERS	UW-17
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REV. BY	DATE	DATE OF APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TEMPORARY JUMPER CONNECTION-HYDRANT AVAILABLE	UW-21A
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TEMPORARY JUMPER CONNECTION - NO HYDRANT AVAILABLE	UW-21B
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW	US-2
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	SINGLE AND DOUBLE SERVICE CONNECTION	US-13A
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REV. BY	DATE	DATE OF APPROVAL

MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TEMPORARY JUMPER CONNECTION-HYDRANT AVAILABLE	UW-21A
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	TEMPORARY JUMPER CONNECTION - NO HYDRANT AVAILABLE	UW-21B
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW	US-2
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MANATEE COUNTY PUBLIC WORKS DEPARTMENT	SINGLE AND DOUBLE SERVICE CONNECTION	US-13A
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DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18
			SURVEY #	0577-0036	DESIGNED	XXX	XX/XXXX
			SEC./TWN./RGE	25/33S/17E	DRAWN	KHL	03/13/18
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

JOHN PARI, P.E.
FLORIDA P.E. # 56368

Signature & Date

Manatee
County
FLORIDA

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

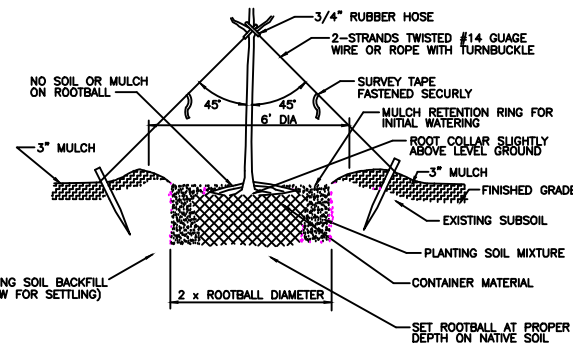
DRAINAGE REHABILITATION
RUBONIA
UTILITY DETAILS

SHEET NO.
41

GENERAL NOTES

- Right-of-way permits use must be obtained and landscape plans approved prior to commencing landscape installation. The landscape plan must be legible, to scale, and show the following: right-of-way locations and dimensions, north arrow, signs, all utilities (overhead and underground), existing vegetation to be retained, and all plant species specified, quantities, sizes, locations, and spacings.
- Random soil sampling is encouraged prior to design and species selection.
- Plant species must be adaptable to the site conditions. Nuisance, invasive species are not permitted (see Florida Exotic Pest Plant Council, Category I and II listings). Canopy tree species notorious for drooping branches shall not be specified next to traffic lanes and sidewalks. Shrub species notorious for encroaching into infrastructure shall not be specified.
- Where canopy trees are proposed, sufficient space for large root zones must be available or provided.
- All trees, shrubs, and palms must be quality grade Florida #1 or better (Florida Fancy) per the most recent edition of Grades and Standards for Nursery Plants, published by the Florida Division of Plant Industry of the Department of Agriculture and consumer services or a comparable quality rating system acceptable to the Transportation Department.
- Planting operations for trees, shrubs, and palms shall follow the details contained herein on sheet nos. 600.2 thru 600.5, and shall be supervised by a "certified arborist", International Society of Arboriculture or National Arborist Association.
- Trees, shrubs, and palms shall not be allowed to encroach on sight windows for traffic as shown in details nos. 600.7 thru 600.9. Unless waived by the department the FDOT Roadway and Traffic Design Standards, Index 548, site distance at intersections and index 700, design criteria related to highway safety, most recent revision, shall be followed.
- All landscapes permitted to be installed in rights-of-way shall be maintained per the "best management practices" (bmp) for landscape maintenance, horticulture and arboriculture as identified in the American National Standards Institute (ANSI) A300 standards and the International Society of Arboriculture.
- The maintenance of right-of-way landscapes shall include at a minimum the following: annual pruning of trees and shrubs per bmp, semiannual pruning and fertilizing of palms (see details 600.4 & 600.5), fertilizing of trees and shrubs as necessary per bmp. Control of damaging insect attacks, notification to the department or Cooperative Extension Service of suspected plant diseases, and monthly removal of weeds and debris. Canopy tree pruning activities shall be supervised by a certified arborist. Dead and overly-stressed plant material shall be replaced with like species and size in timely fashion.
- All turf utilized shall be properly mowed, edged, and maintained per season. Mulch shall be kept in a neat appearance, replenished as necessary, and removed from streets and gutters.
- Any color of survey tape is approved, provided it does not conflict with the tape used on any utility locates.

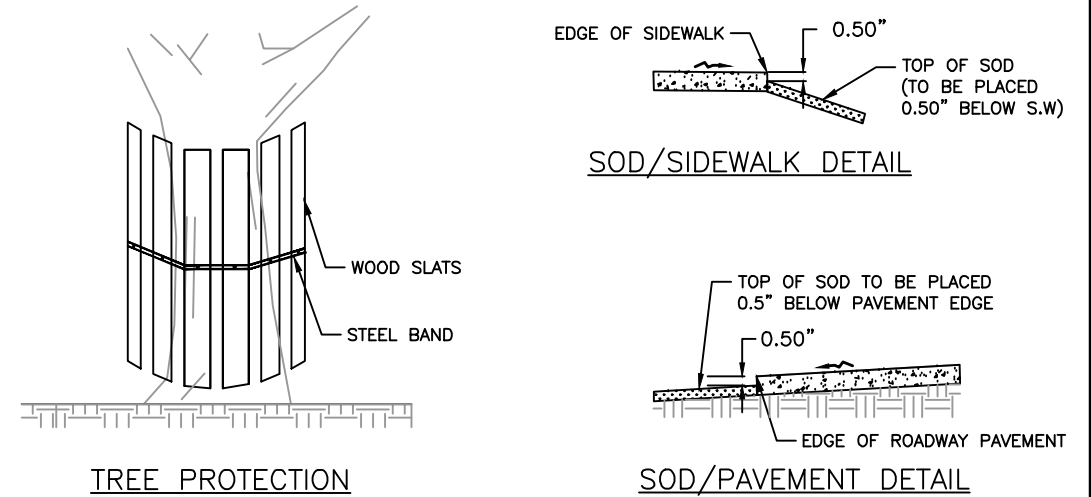
MANATEE COUNTY TRANSPORTATION DEPARTMENT		GENERAL NOTES	600.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



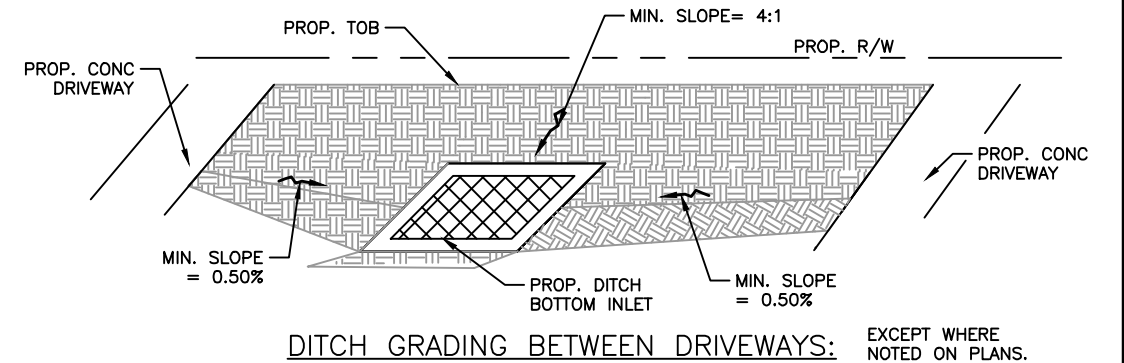
TREE PLANTING DETAIL

- Use only high quality specimens that have rigid branches and healthy foliage; large specimens must be "hardened off".
- Check for physical damage and root system quality prior to planting:
 - No large wounds on trunks and major branches; prune minor damage.
 - No large encircling roots; prune small encircling roots.
 - Trunk must be solid in rootball, not loose.
 - Remove any stem sprouts to first tier of branches.
- Remove any container material, including wires, strings, plastic, etc.
- Tree must be set at proper depth—root collar at or higher than soil level with allowance for settling; never lower. No soil or mulch should be placed on top of the rootball.
- Prepare water retention ring with mulch, repair as necessary to contain water. Initial watering should totally saturate soil and remove air pockets. Water daily for two weeks at a minimum; reduce scope of watering depending on weather and season.
- Stake tree only if it cannot support its crown vertically in moderate winds, follow detail, remove stakes when trunk is able to support crown.
- Mulch rings shall be 2' width and must be of the same mulch variety throughout the project.

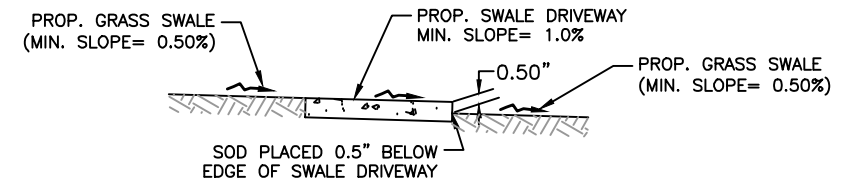
MANATEE COUNTY TRANSPORTATION DEPARTMENT		TREE PLANTING DETAIL	600.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



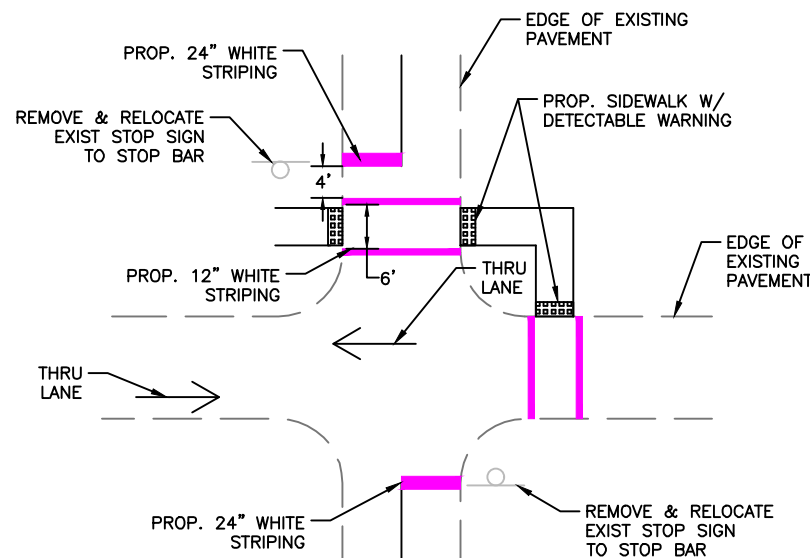
TREE PROTECTION



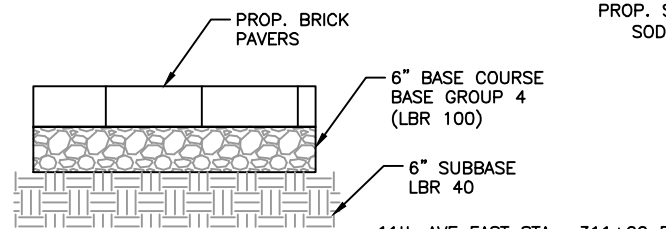
DITCH GRADING BETWEEN DRIVEWAYS: EXCEPT WHERE NOTED ON PLANS.



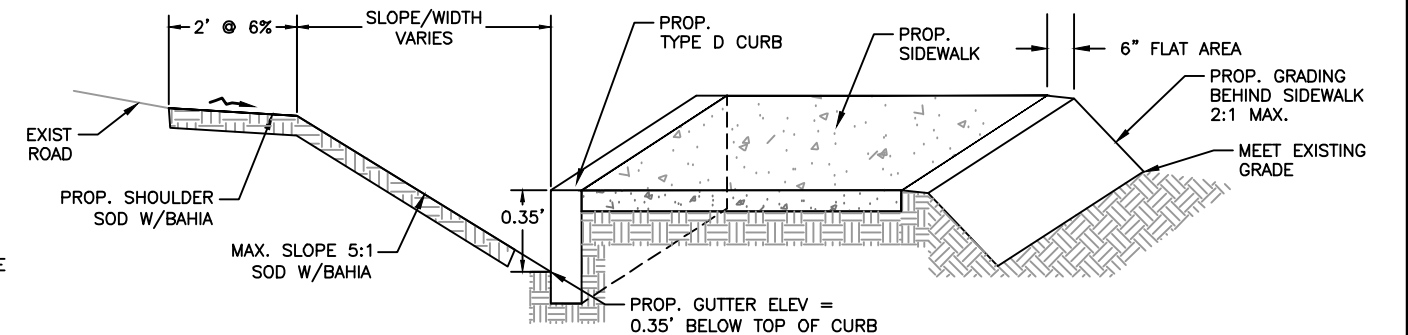
GRADING ADJACENT TO SWALE DRIVEWAYS:



SIGNING & STRIPING DETAIL



BRICK PAVER DETAIL



**PROP SIDEWALK/
TYPE 'D' CURB DETAIL**

11th AVE EAST: STA: 309+20 TO 311+25 R	14th St EAST STA: 700+15 TO 700+60 L STA: 700+72 TO 701+37 L
12th AVE DR EAST: STA: 500+30 TO 501+26 L STA: 501+40 TO 502+36 L STA: 502+80 TO 504+96 R	15th ST EAST STA: 904+26 TO 904+84 R

\\pcc-dfs-vw01\Engineering\Share\Highway_Engineering\Kou\SIDWALKS\Rubonia\DWG\Rubonia_Details.dwg

DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18
			SURVEY #	0577-0036	DESIGNED	JP	7/29/19
			SEC./TWN./RGE	25/33S/17E	DRAWN	JP	7/29/19
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

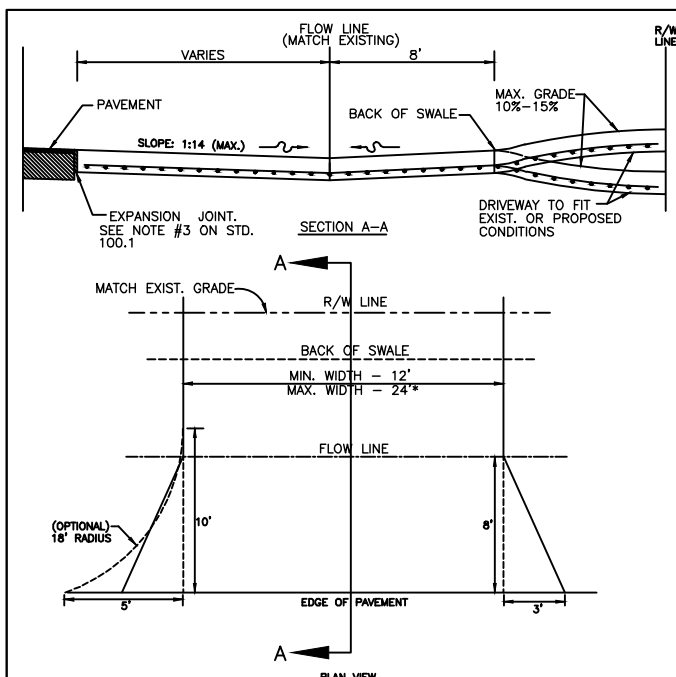
JOHN PARI, P.E.
FLORIDA P.E. # 56368

Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

**DRAINAGE REHABILITATION
RUBONIA
MISCELLANEOUS DETAILS**



MAXIMUM GRADES:
5%-8% FOR COMMERCIAL
10%-15% FOR OTHERS

EXPANSION JOINT. SEE NOTE #3 ON STD. 100.1

DRIVEWAY TO FIT EXIST. OR PROPOSED CONDITIONS

SECTION A-A

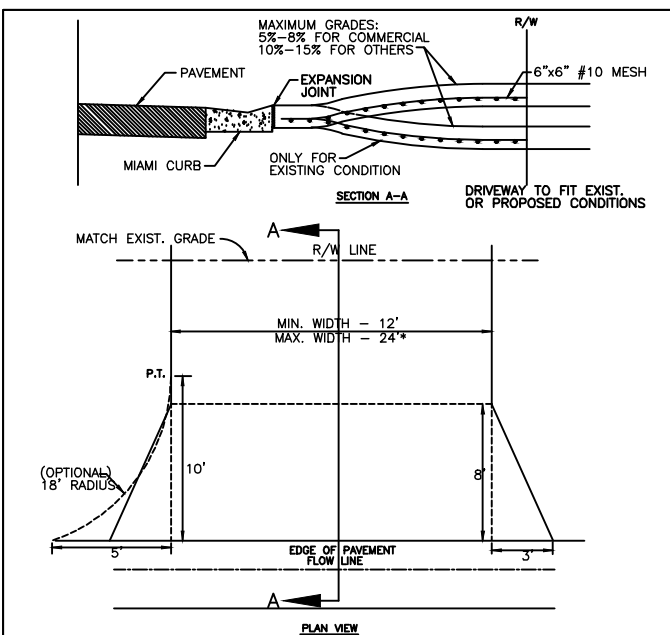
MIN. WIDTH - 12'
MAX. WIDTH - 24'

EDGE OF PAVEMENT

PLAN VIEW

* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
a.) 30' total at the R/W line
b.) 30% of the front footage as defined on the survey (or field measurements, 36' max.)

MANATEE COUNTY TRANSPORTATION DEPARTMENT		RURAL RESIDENTIAL (SWALE DRIVE)	101.0
REV. BY	DATE		
	6/12/07		
DATE OF B.O.C.C. APPROVAL			



SECTION A-A

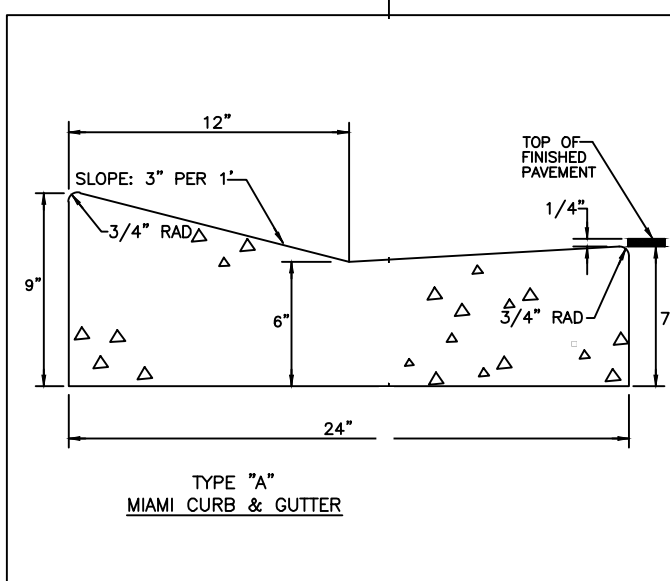
MIN. WIDTH - 12'
MAX. WIDTH - 24'

EDGE OF PAVEMENT FLOW LINE

PLAN VIEW

* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
a.) 30' total at the R/W line
b.) 30% of the front footage as defined on the survey (or field measurement, 36' max.)

MANATEE COUNTY TRANSPORTATION DEPARTMENT		URBAN DRIVES	101.1
REV. BY	DATE		
	6/12/07		
DATE OF B.O.C.C. APPROVAL			

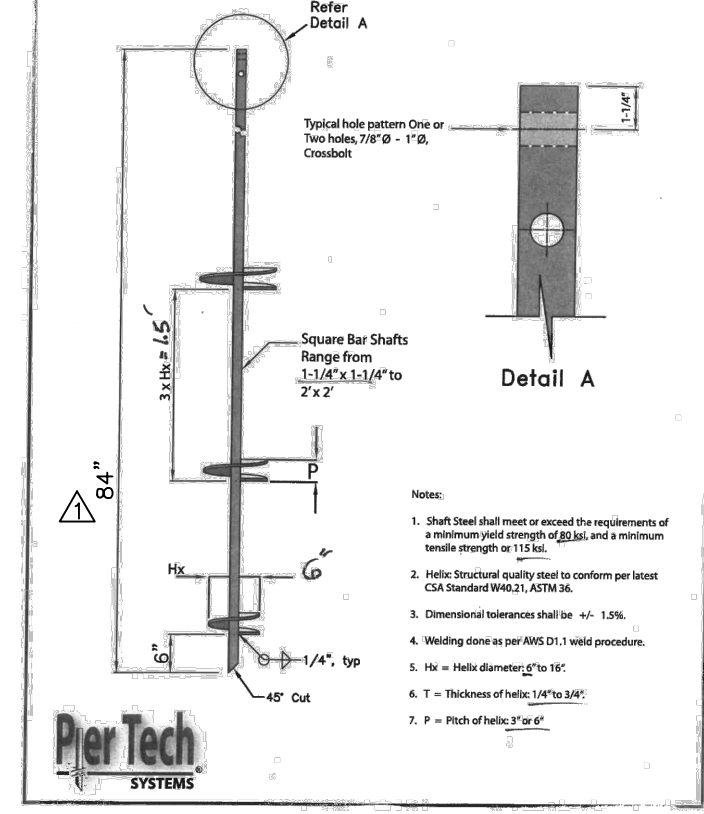


TYPE "A" MIAMI CURB & GUTTER

A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.

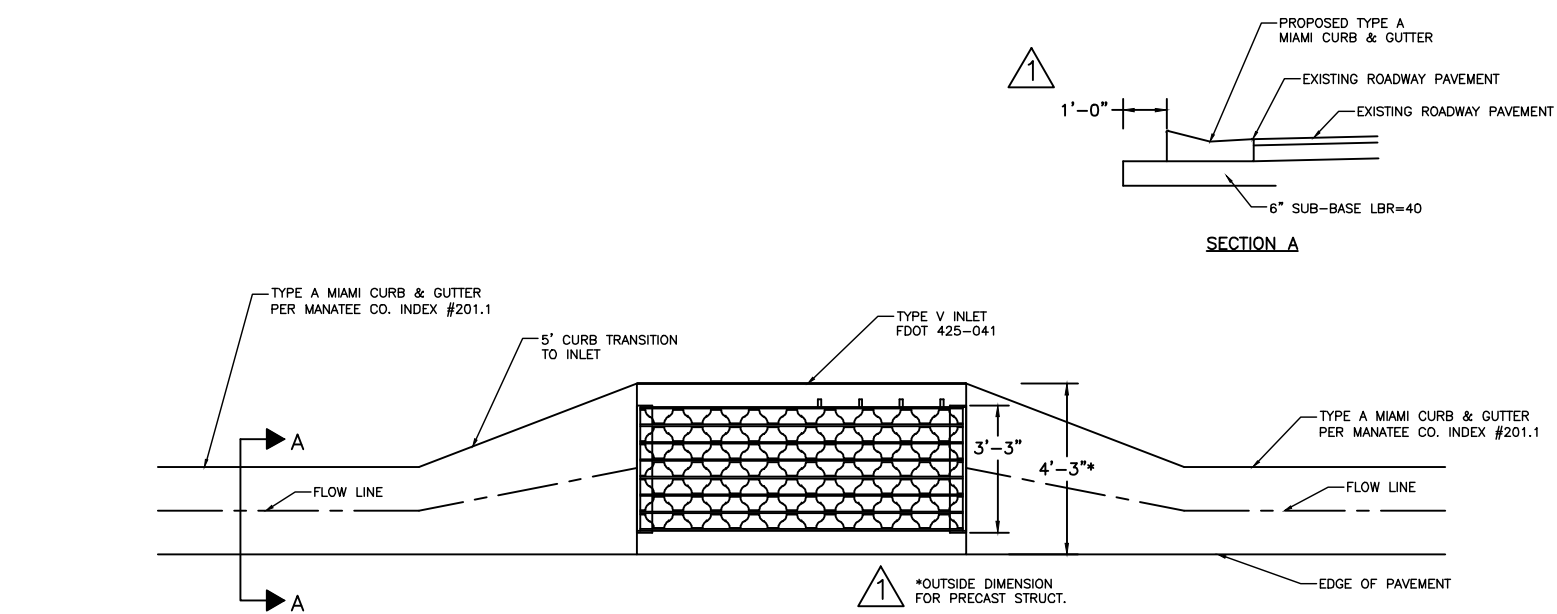
B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPE A MIAMI CURB & GUTTER	201.1
REV. BY	DATE		
	6/12/07		
DATE OF B.O.C.C. APPROVAL			

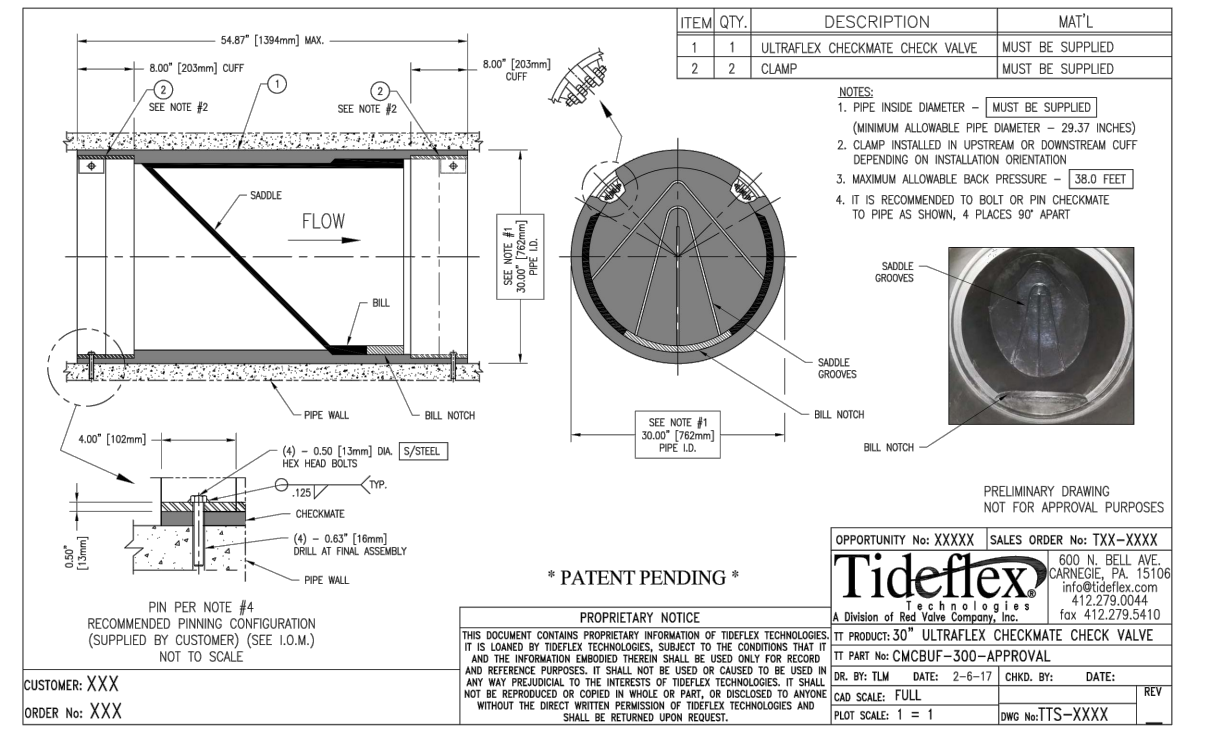


HELICAL ANCHOR DETAIL

- a. One helical screw (84" length) is installed at each pipe joint on either side of dual pipe.
 - b. A cap w/ threaded port (furnished by Pier Tech) is bolted (or welded) to top of shaft of helical screw.
 - c. A nylon strap or U-bolt that spans dual pipe attaches to cap.
- NOTE: Dual 24" A2000 pipe located on north side of 71st St E and dual 30" A2000 pipe located on south side of 71st St E



TYPE V INLET / TYPE A MIAMI CURB & GUTTER DETAIL



CHECK VALVE INSTALLATION DETAIL

DATE	DESCRIPTION	DATE	PROJECT #	000-0000000	SURVEYED	FDC	03/08/18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JP	7/29/19
			SEC./TWN./RGE	25/33S/17E	DRAWN	JP	7/29/19
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

JOHN PARI, P.E.
FLORIDA P.E. # 56368

Signature & Date

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

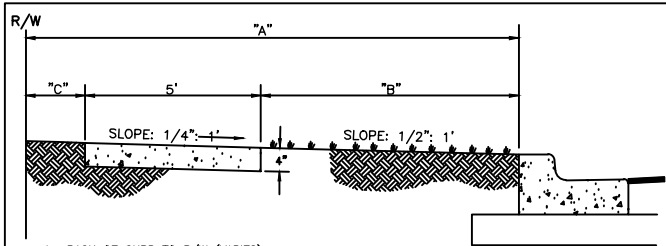
DRAINAGE REHABILITATION
RUBONIA
MISCELLANEOUS DETAILS

SHEET NO. 42A

GENERAL NOTES

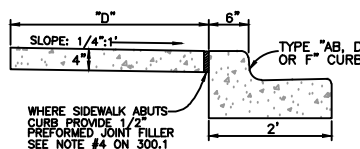
- SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 PSI CONCRETE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS 1 CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.
* SEE SHEETS #101.2 & 101.3.
- ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.
- THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".
- EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. FOR LONG JOINTS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.
- CONTRACTION JOINTS:
OPEN TYPE JOINTS
OPEN TYPE CONTRACTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.
SAWED JOINTS
A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.
- SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
- HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
- ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.



A= BACK OF CURB TO R/W (VARIES)
B= UNPAVED AREA (VARIES). REFER TO F.D.O.T. GREEN BOOK, TABLE 3-12, LATEST REVISION.
C= VARIES, SEE 401 SERIES

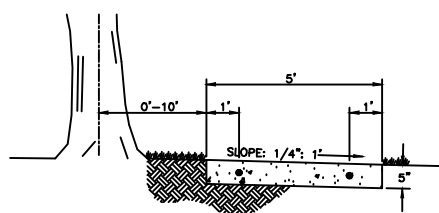
TYPICAL SIDEWALK LOCATION



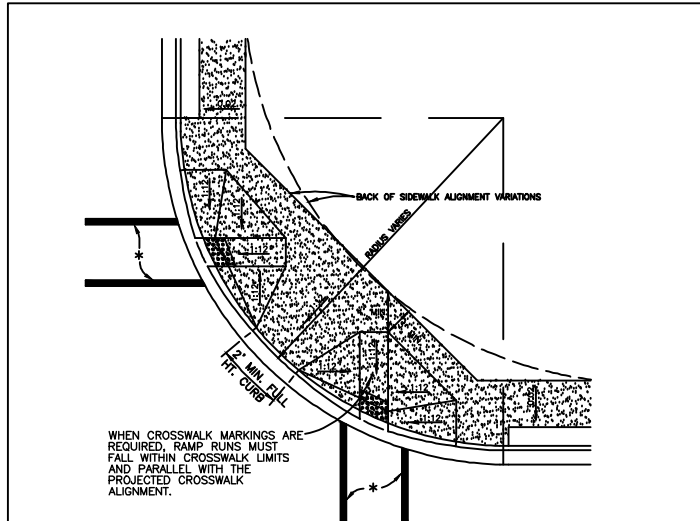
D= SIDEWALK WIDTH SHALL BE 6" STANDARD, WHERE WALK ABUTS TYPE "AB, D OR F" CURB. WHERE SPEED LIMIT IS 25 MPH OR LESS, WIDTH CAN BE 5'-6".

* SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

ALTERNATE SIDEWALK LOCATION



SIDEWALK LOCATION CLOSE TO TREES

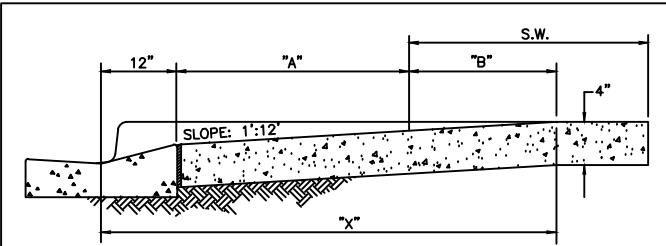


WHEN CROSSWALK MARKINGS ARE REQUIRED, RAMP RUNS MUST FALL WITHIN CROSSWALK LIMITS AND PARALLEL WITH THE PROJECTED CROSSWALK ALIGNMENT.

* CROSSWALK WIDTHS AND CONFIGURATION VARY. MUST CONFORM TO FDOT INDEX NO. 17344 AND 17346.

- CURB CUT RAMPS ARE TO BE LOCATED AS SHOWN ON PLANS.
- SEE SHEETS # 300.1 "GENERAL NOTES" & # 301.2 "HANDICAPPED RAMP" SHT 2 FOR FURTHER REQUIREMENTS.
- RADIUS OF CURB VARIES AS FOLLOWS:
A) 25' RAD. LOCAL STREET WITH ALLEY.
B) 25' RAD. LOCAL STREET WITH LOCAL STREET.
C) 35' RAD. LOCAL STREET WITH THOROUGHFARE OR COLLECTOR.
D) 50' RAD. THOROUGHFARE WITH THOROUGHFARE
- CURB RADIUS SHOULD BE A MINIMUM OF 50' WHERE INDUSTRIAL AND BUS TRAFFIC (5% OR MORE) IS ANTICIPATED ON LOWER CLASSIFICATION ROADWAYS.
- BOTH LOCATION OPTIONS FOR HANDICAPPED RAMP ARE SHOWN. ENGINEER MAY SELECT EITHER, WHICHEVER FITS THE SITUATION.

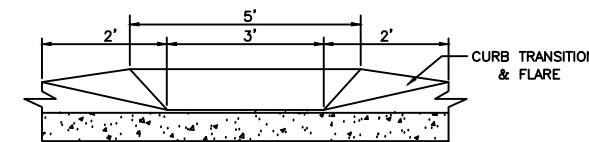
NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.



SECTION A-A
(SEE SHEET 301.0)

S.W.= SIDEWALK "A" S.W.+ A + 10" "X" "B"

5'	0	5.8'	5.8'	5'
6'	0	6.8'	6.8'	6'
7'	0	7.8'	7.3'	6.5'
8'	0	8.8'	7.3'	6.5'
5'	2.5'	8.3'	7.8'	5'
5'	2.5'	8.3'	8.1'	4.8'
5'	3'	8.8'	8.2'	4.4'
5'	3.5'	9.3'	8.4'	4.1'
5'	4'	9.8'	8.6'	3.8'
5'	4.5'	10.3'	8.7'	3.4'
5'	5'	10.8'	9.1'	3.1'



SECTION B-B
(SEE SHEET 301.0)

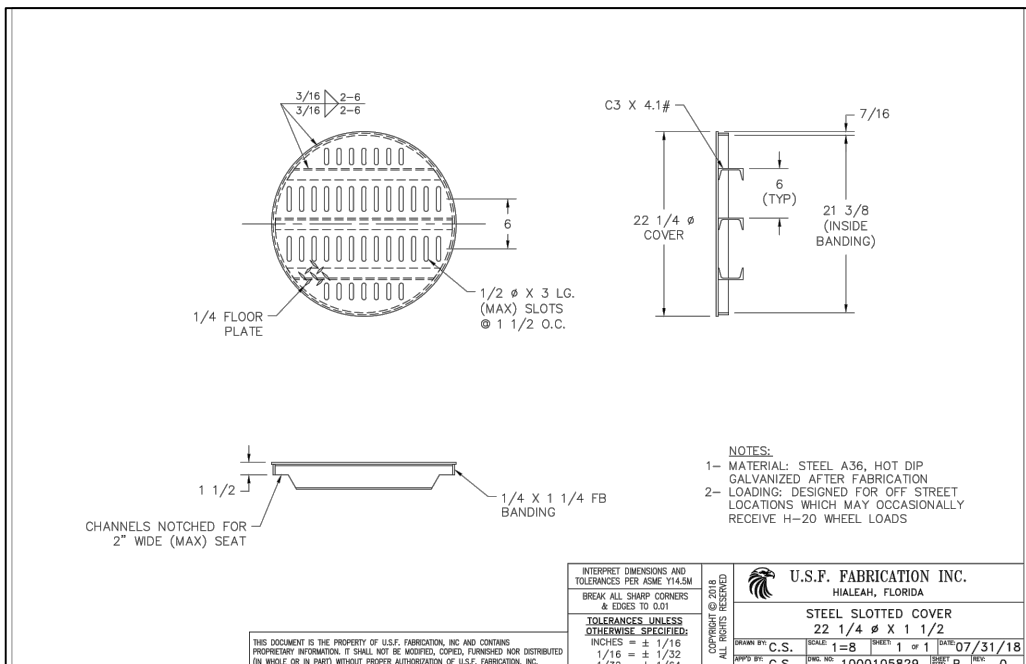
NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALKS GENERAL NOTES	301.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

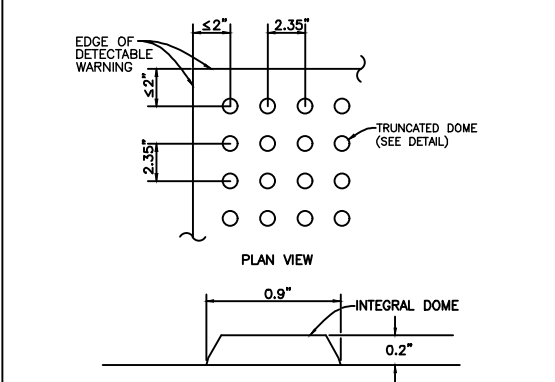
MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 1	302.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 2	302.2
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



- NOTES:
1- MATERIAL: STEEL A36, HOT DIP GALVANIZED AFTER FABRICATION
2- LOADING: DESIGNED FOR OFF STREET LOCATIONS WHICH MAY OCCASIONALLY RECEIVE H-20 WHEEL LOADS

U.S.F. FABRICATION INC.
HIALEAH, FLORIDA
STEEL SLOTTED COVER
22 1/4" x 1 1/2"
DRAWN BY: C.S. SCALE: 1"=8" SHEET: 1 OF 1 DATE: 07/31/18
APP'D BY: C.S. DATE: 08/01/18



DETECTABLE WARNINGS ON WALKING SURFACES

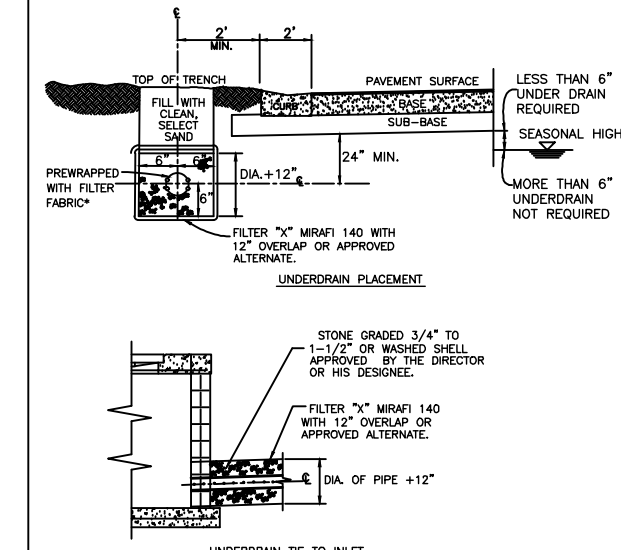
THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.
DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.
THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:
CONTRAST = [(B1-B2)/B1] x 100
WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.
NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

- UNDERDRAIN**
- CORRUGATED POLYETHYLENE TUBING
CORRUGATED POLYETHYLENE TUBING WITH A FILTER FABRIC WRAP, UNLESS OTHERWISE NOTED, MAY BE USED FOR UNDERDRAIN APPLICATIONS ASSOCIATED WITH ROADWAY CONSTRUCTION PROVIDING THE FOLLOWING SPECIFICATIONS ARE MET:
A) THE CORRUGATED POLYETHYLENE TUBING SHALL MEET THE REQUIREMENTS OF ASTM F-405.
B) THE CORRUGATED POLYETHYLENE TUBING SHALL HAVE A FILTER FABRIC SOCK MEETING F.D.O.T. SPEC. 948-3, LATEST REVISION. IF PERFORATIONS IN PIPE ARE LESS THAN 3/4", THEN FILTER FABRIC SOCK MAY BE OMITTED.
C) THE ENVELOPE MATERIAL SURROUNDING THE TUBING SHALL BE CRUSHED STONE OR WASHED SHELL. THE THICKNESS OF THE ENVELOPE MATERIAL SHALL BE EQUAL TO OR GREATER THAN THE DIAMETER OF THE TUBING, PLUS 12".
D) CORRUGATED POLYETHYLENE TUBING SHALL NOT BE ACCEPTABLE UNDER ROADWAYS.
E) EXTRA CARE SHALL BE TAKEN DURING PLACEMENT TO MAINTAIN PROPER LINE AND GRADE, TO BE PLACED W/ SLOPE OF ROAD.
F) A CLEAN-OUT SHALL BE CONSTRUCTED AT THE END OF EACH RUN OF UNDERDRAIN. MAXIMUM SPACING EVERY 100 FEET.
G) SOD 3" AROUND 18" CONC. SQUARE.

*NOTE: TRANSPORTATION DIRECTOR OR HIS DESIGNEE'S APPROVAL IS REQUIRED FOR THE USE OF FLEXIBLE UNDERDRAIN PIPE.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		UNDERDRAIN GENERAL NOTES	204.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



- LOCATION OR NEED FOR UNDERDRAIN TO BE APPROVED BY THE DIRECTOR OR HIS DESIGNEE.
 - UNDERDRAIN SHALL BE AS SPECIFIED IN SECTION 440 OF FLORIDA DEPT. OF TRANSPORTATION SPEC. (2000 OR LATEST REVISION).
 - 6" TO 8" PERFORATED PIPE AS REQUIRED.
 - BACKFILL WITH CLEAN, SELECT SAND TO LINES SHOWN ON PLANS.
- * IF PIPE PERFORATIONS ARE SMALLER THAN 3/4", THEN FILTER FABRIC SOCK MAY BE OMITTED.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPICAL UNDERDRAIN LAYOUT	204.1
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		

DATE	DESCRIPTION	DATE	PROJECT #	000-000000	SURVEYED	FDC	03/08/18
			SURVEY #	0577-0036	DESIGNED	JP	7/29/19
			SEC./TWN./RGE	25/33S/17E	DRAWN	JP	7/29/19
			SCALE	N.T.S.	CHECKED	XXX	XX/XXXX

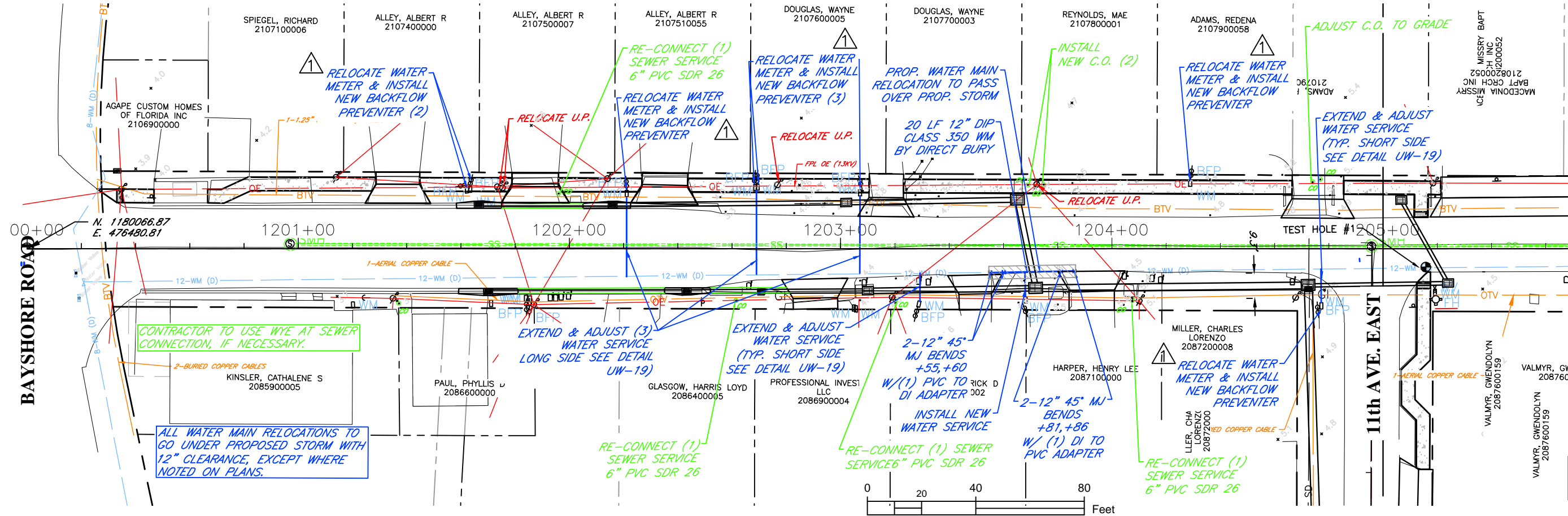
JOHN PARI, P.E.
FLORIDA P.E. # 56368
Signature & Date

Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

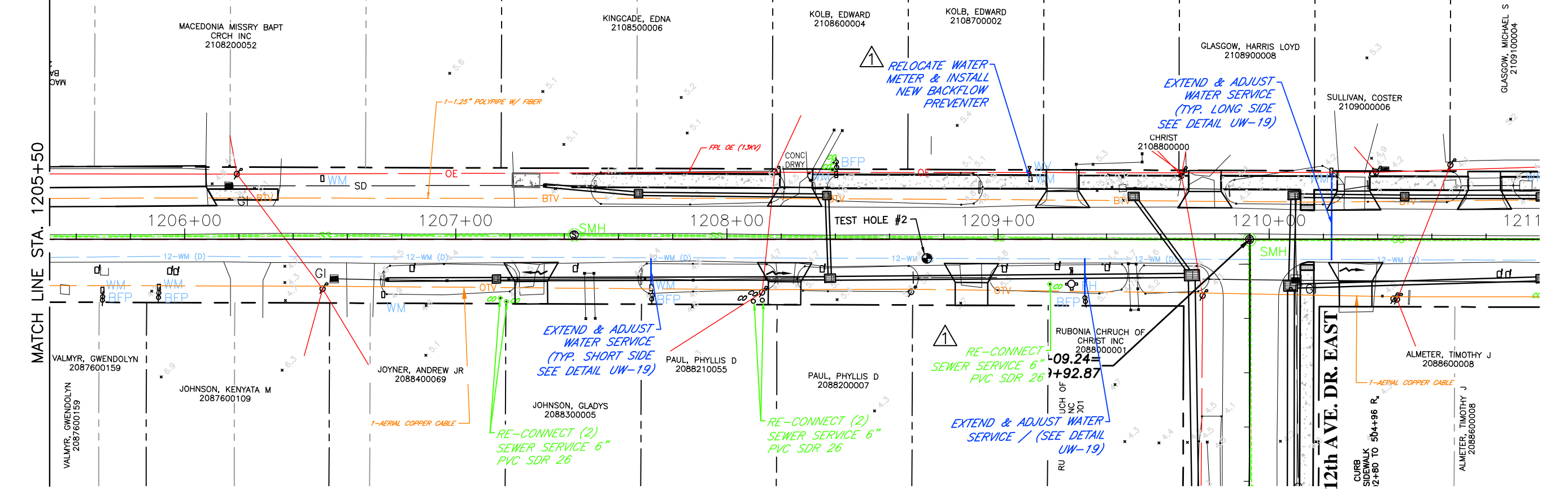
DRAINAGE REHABILITATION
RUBONIA
MISCELLANEOUS DETAILS

SHEET NO.
42B

72nd ST. CT. EAST




72nd ST. CT. EAST



H:\Highway Engineering\PROJ\SIDEWALKS\Rubonia\UAS\Rubonia_UAS-60_Percent.dwg

DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
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			SEC./TWN./RGE	VARIABLES	DRAWN	KHL	06/2018
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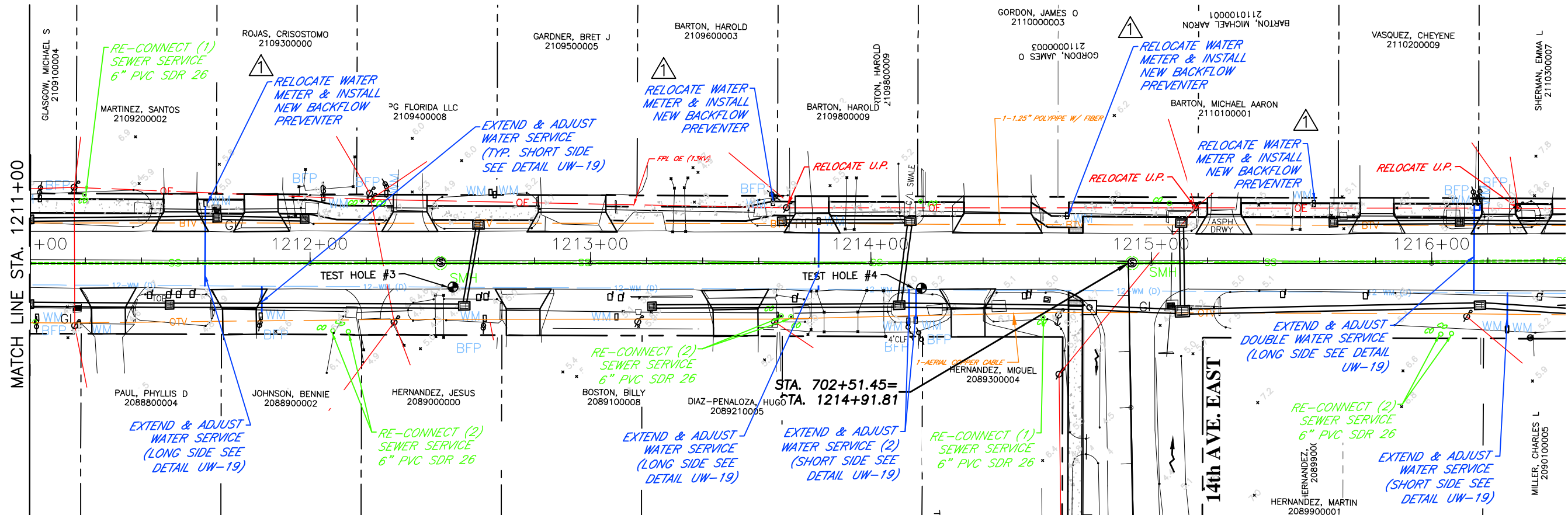
JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

 PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

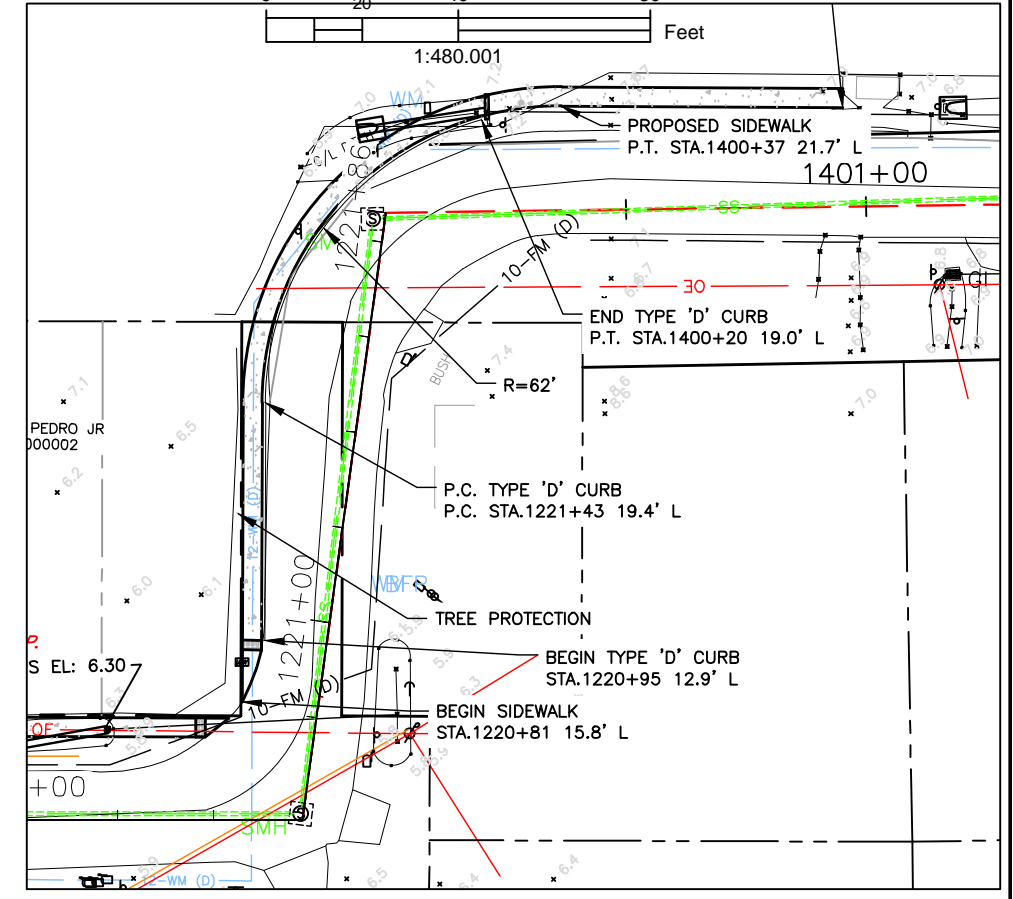
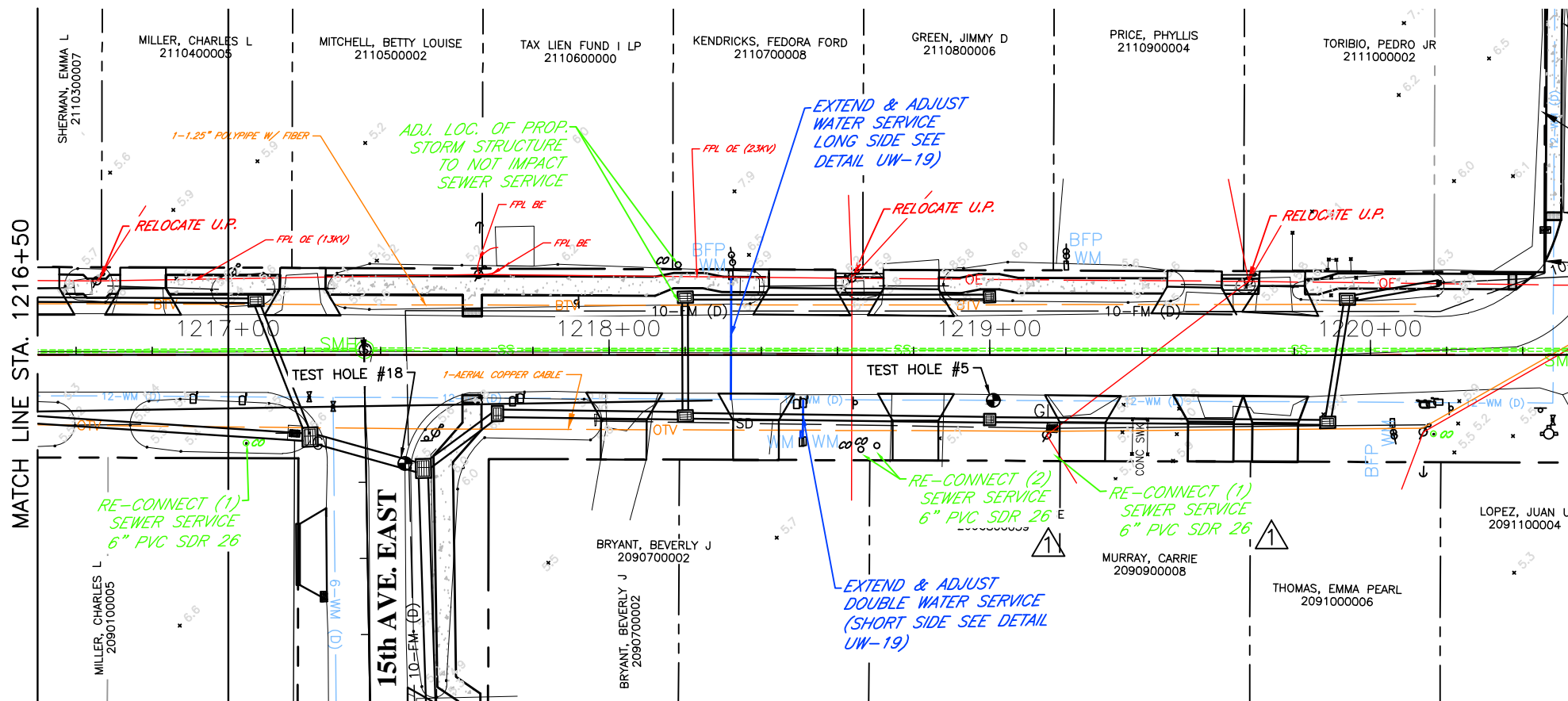
RUBONIA
72nd STREET COURT EAST
UTILITY ADJUSTMENT SHEETS

SHEET NO.
43

72nd ST. CT. EAST



72nd ST. CT. EAST



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
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			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

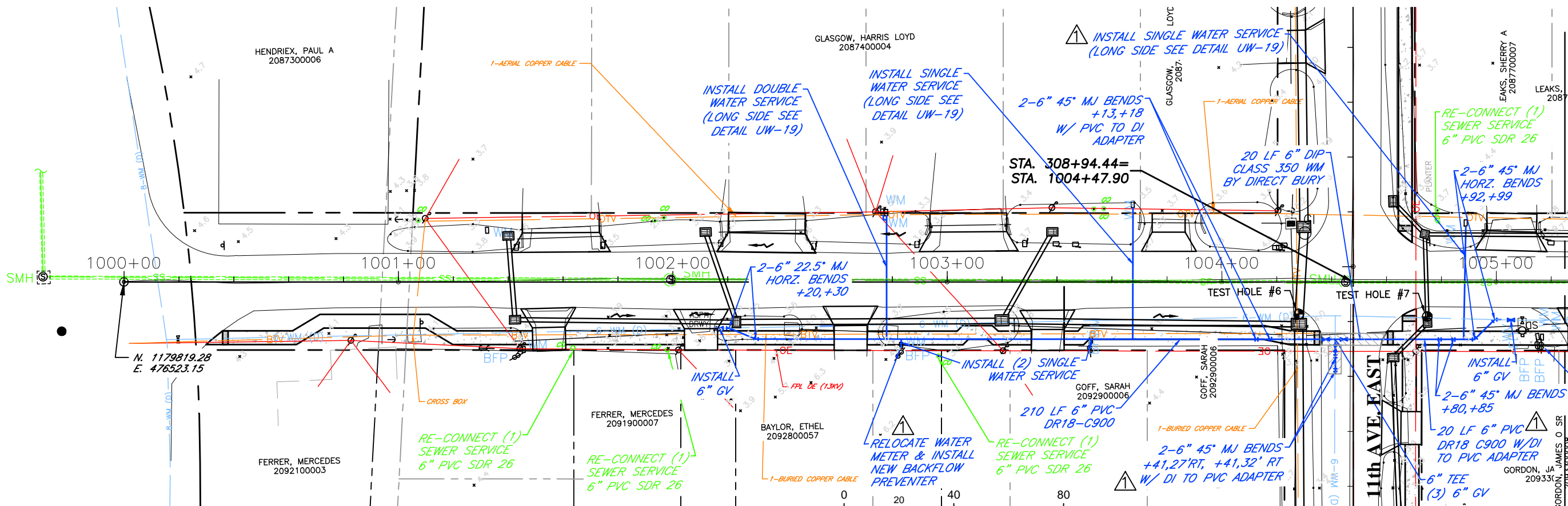


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

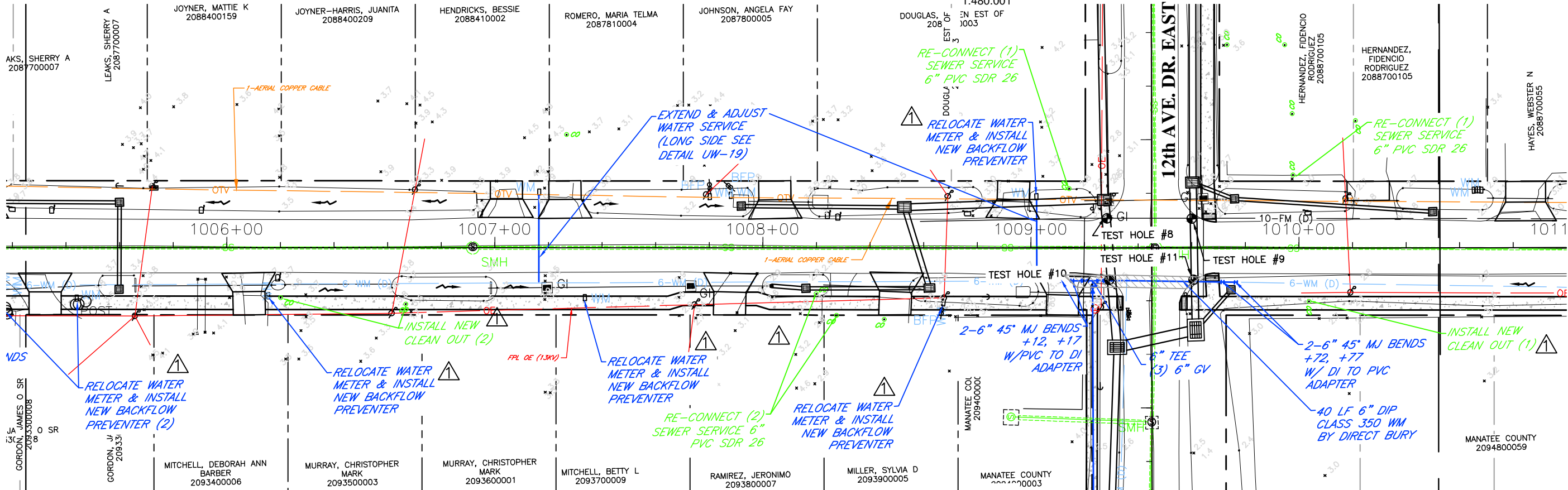
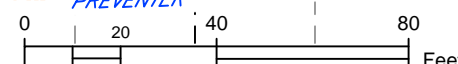
RUBONIA
72nd STREET COURT EAST
UTILITY ADJUSTMENT SHEETS

72nd ST. EAST

BAYSHORE ROAD



72nd ST. EAST



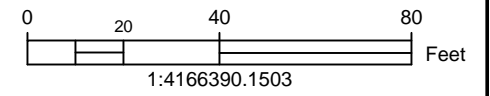
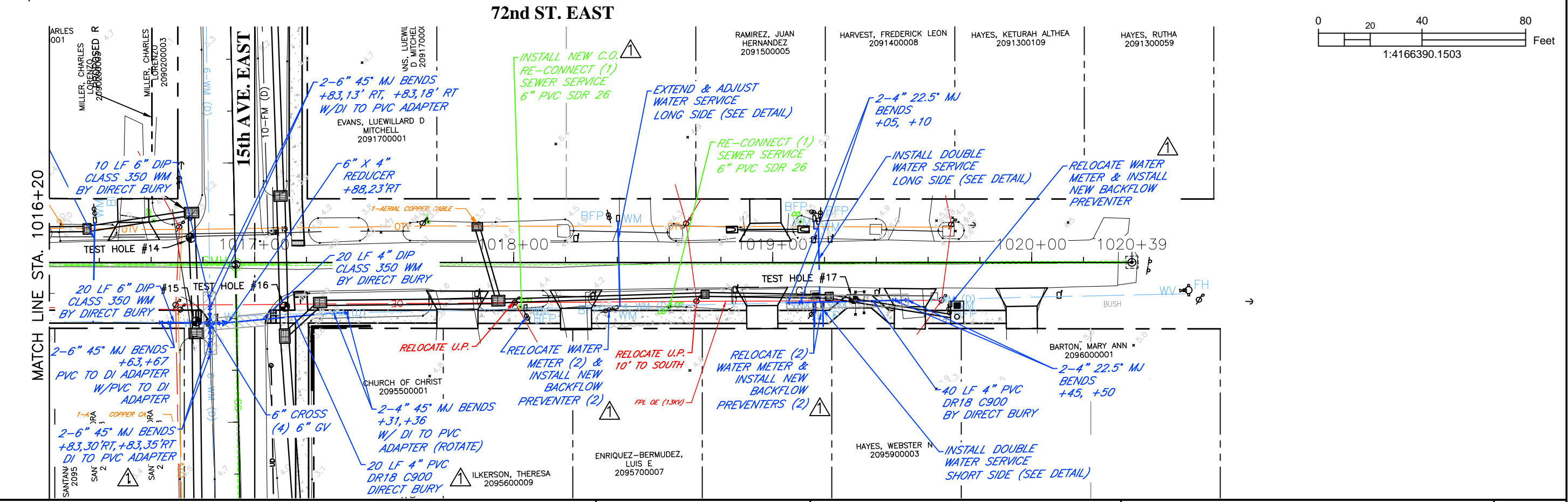
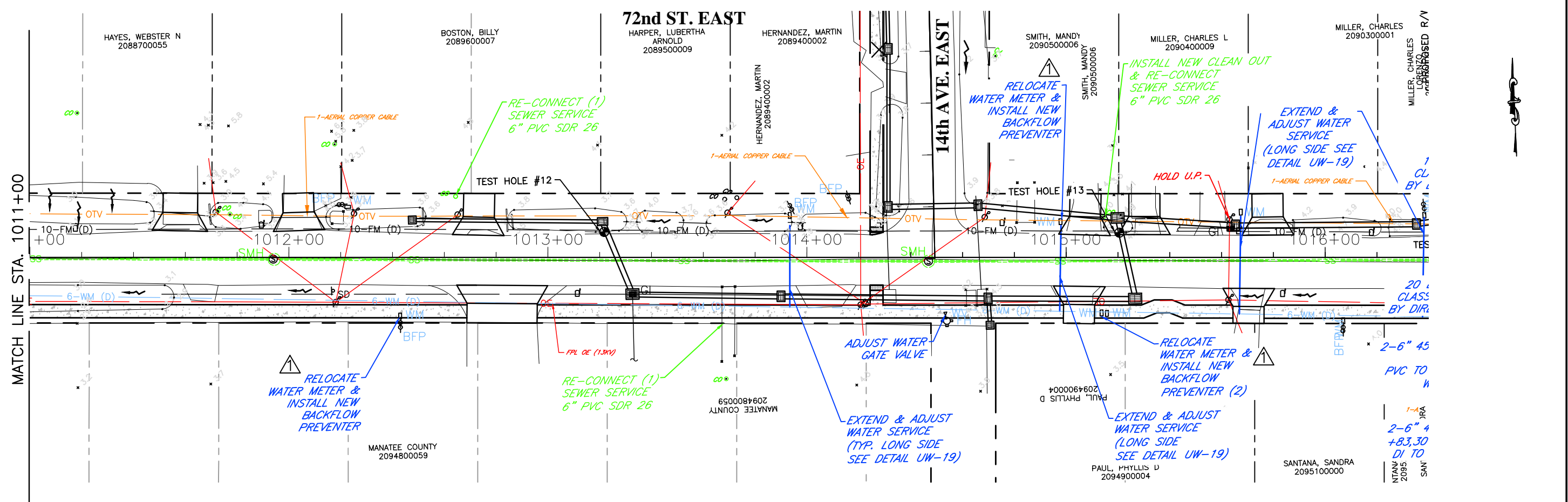
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	Addendum # 1	6/18/20	0577-0036		DESIGNED	JKP	06/2018
					DRAWN	KHL	06/2018
					CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368
Signature & Date

MANATEE COUNTY
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
72nd STREET EAST
UTILITY ADJUSTMENT SHEETS

SHEET NO.
45



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
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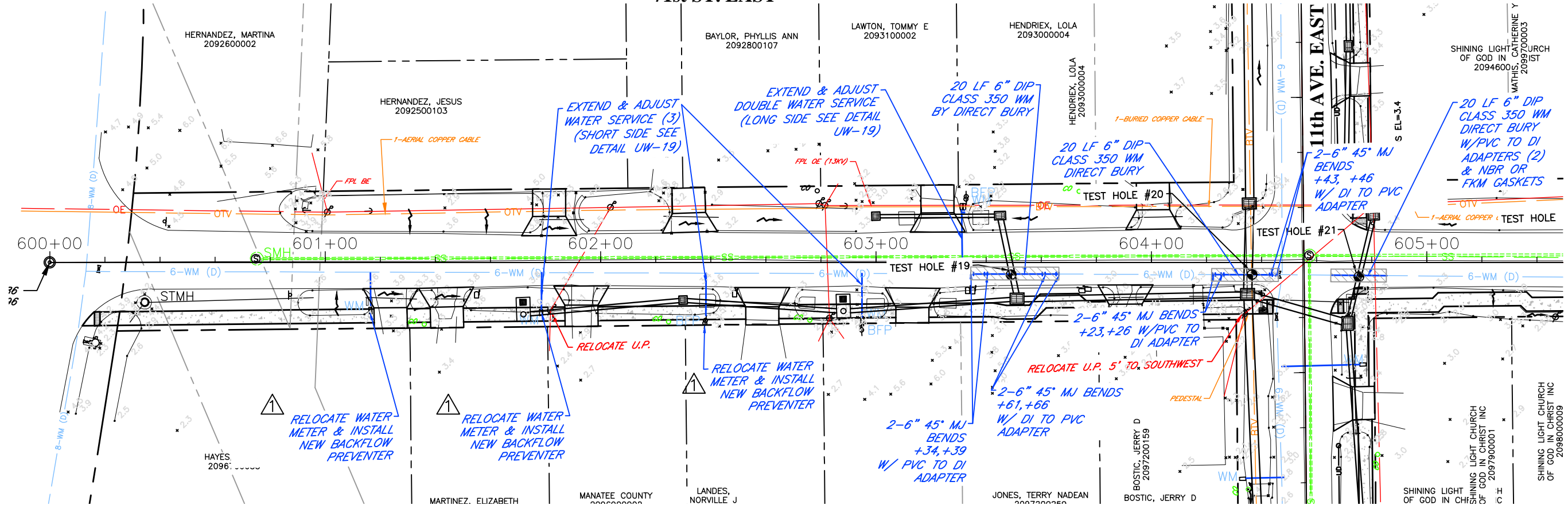
JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

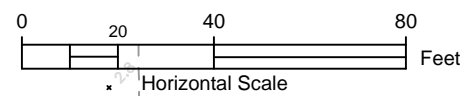
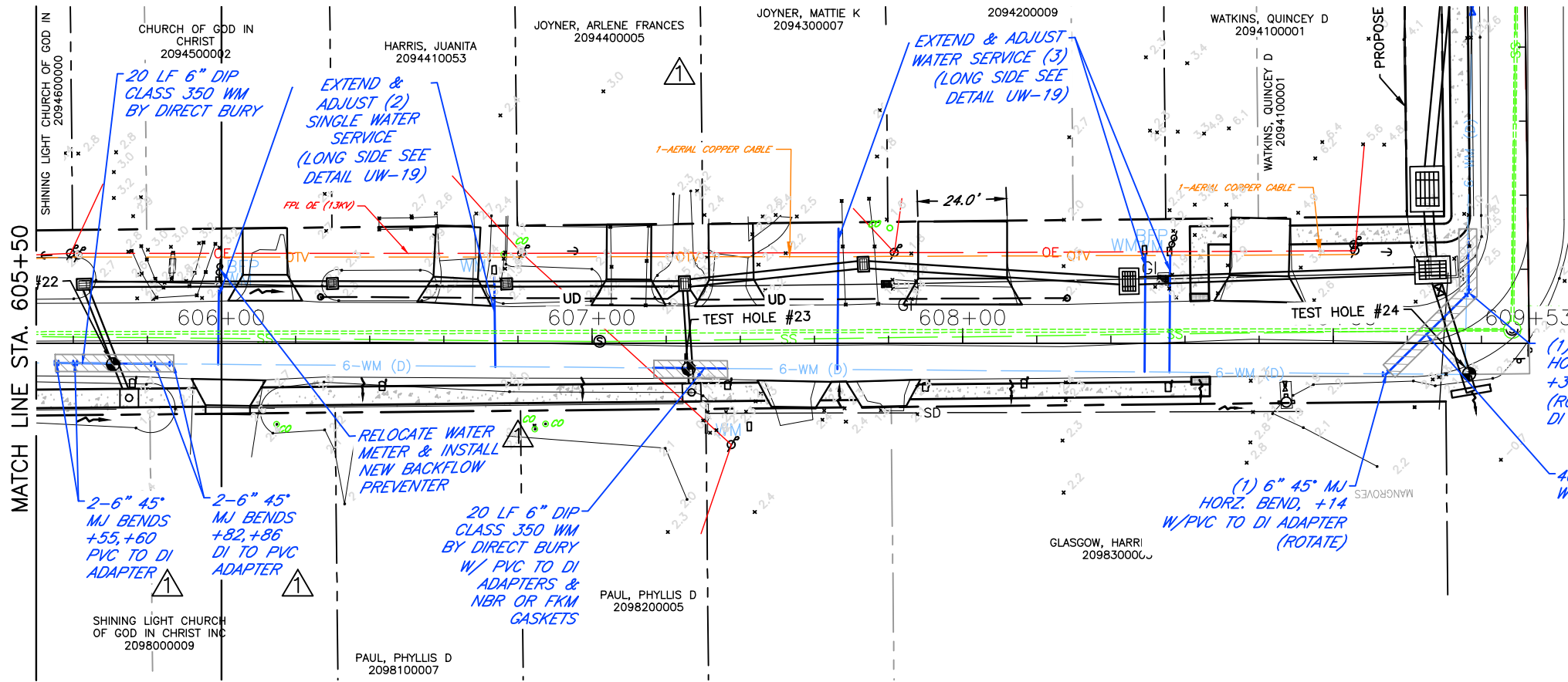
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 UTILITY ADJUSTMENT SHEETS
 SHEET NO. 46

BAYSHORE ROAD

71st ST. EAST



71st ST. EAST



12th AVE. DR. EAST

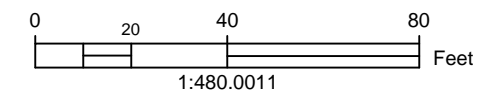
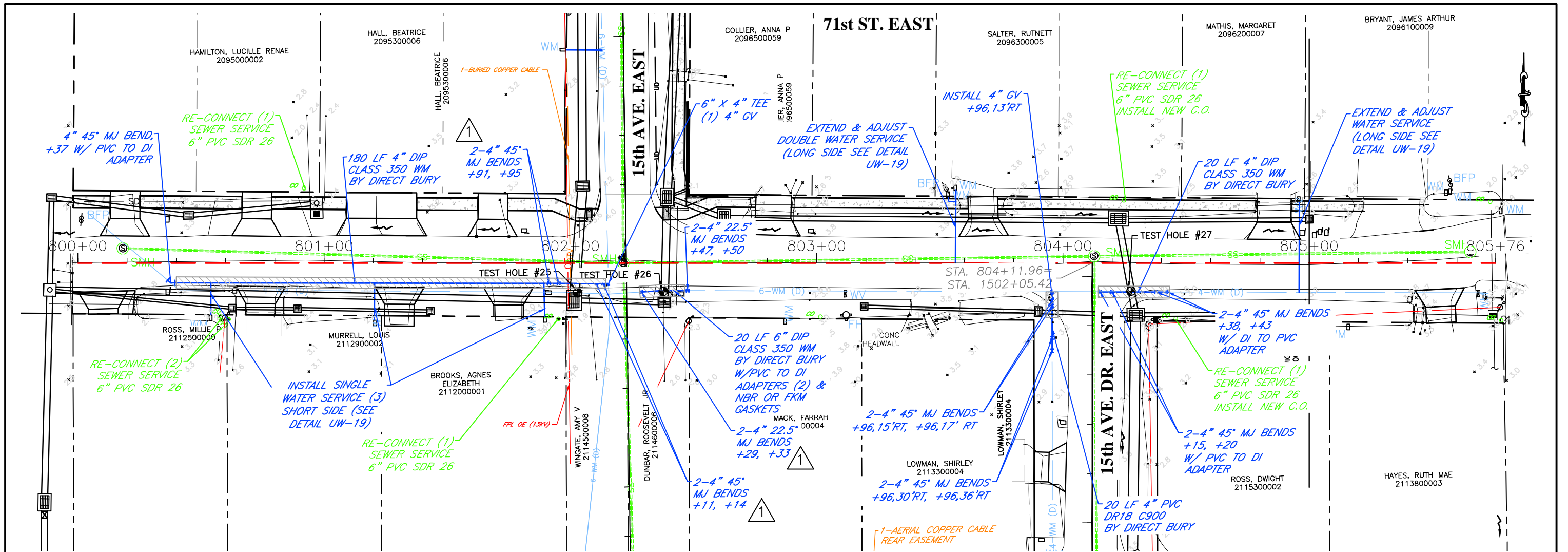
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			SEC./TWN./RGE	VARIABLES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
 FLORIDA P.E. # 56368
 Signature & Date

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 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
71st STREET EAST
UTILITY ADJUSTMENT SHEETS


SHEET NO.
 47



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20					
			SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date



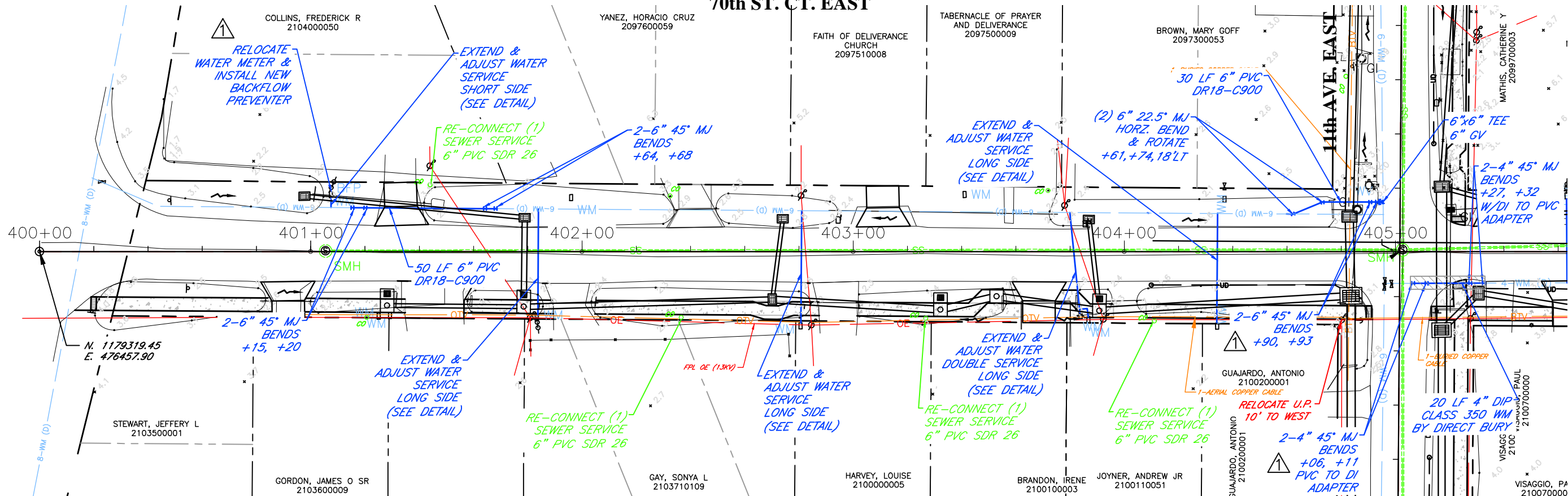
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
71st STREET EAST
UTILITY ADJUSTMENT SHEETS

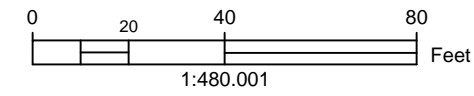
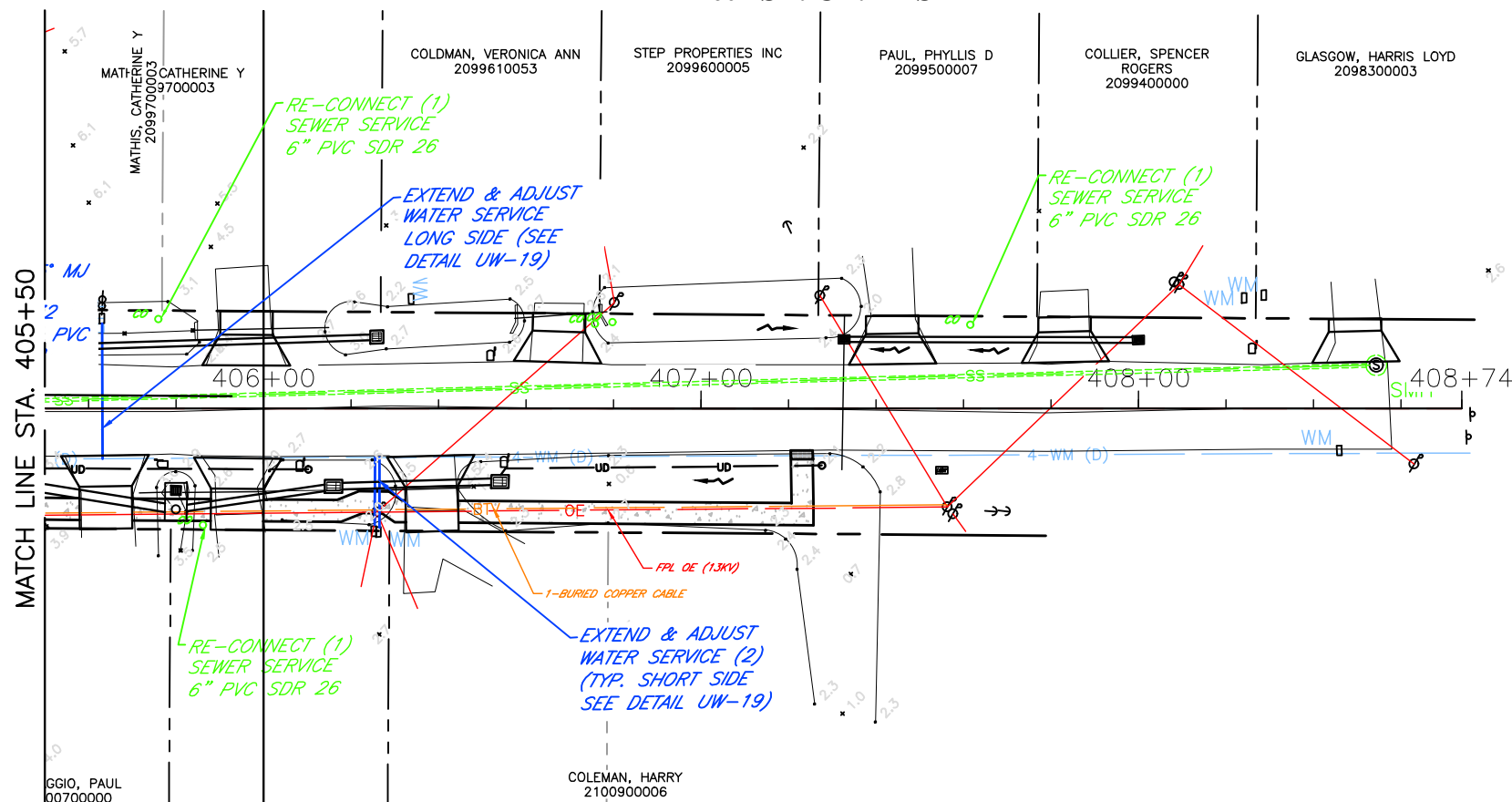
SHEET NO.
48

70th ST. CT. EAST

BAYSHORE ROAD



70th ST. CT. EAST



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIABLES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

Signature & Date

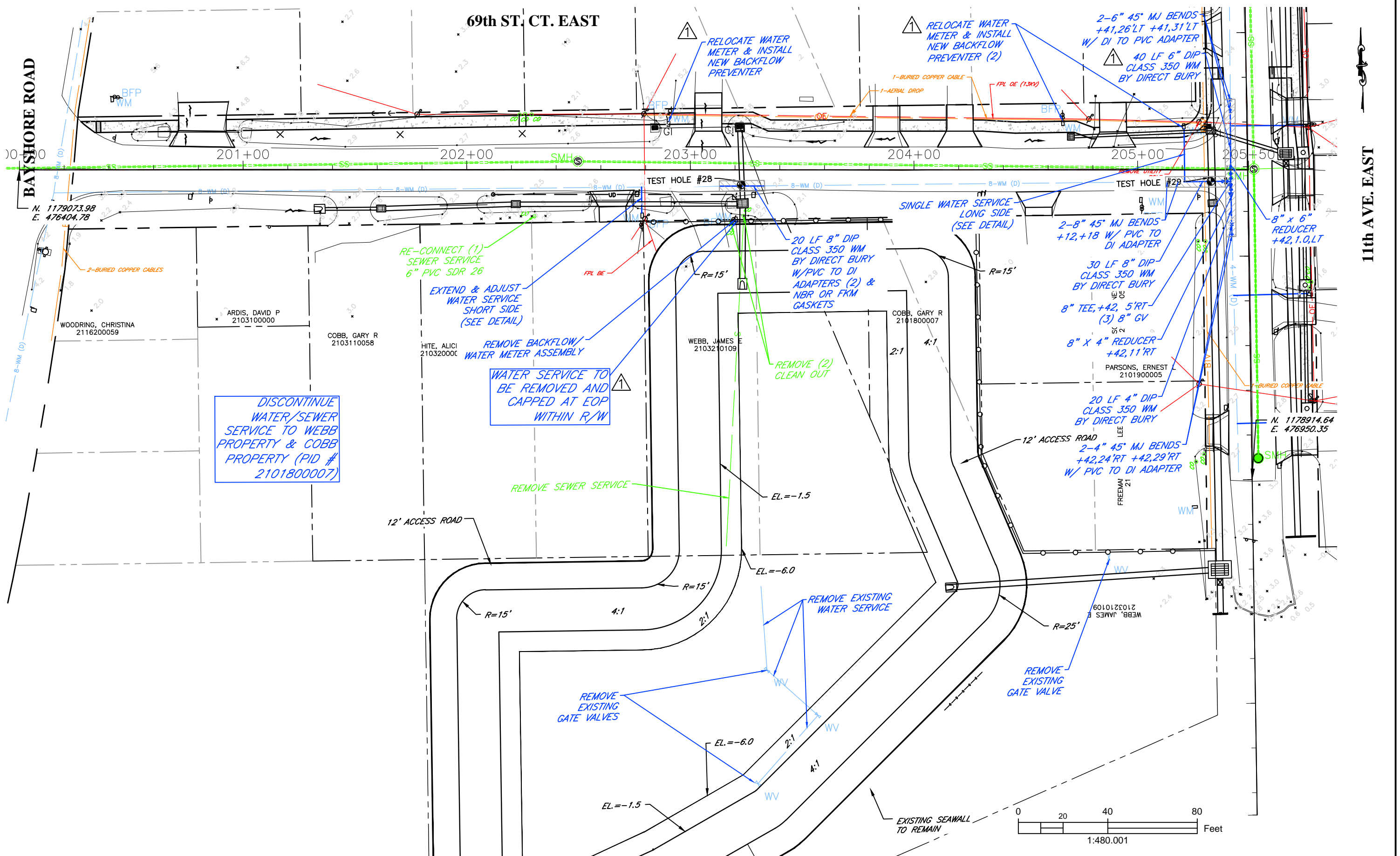
RUBONIA
70th STREET COURT EAST
UTILITY ADJUSTMENT SHEETS

SHEET NO.
49

69th ST. CT. EAST

BAYSHORE ROAD

11th AVE. EAST



DISCONTINUE WATER/SEWER SERVICE TO WEBB PROPERTY & COBB PROPERTY (PID # 2101800007)

WATER SERVICE TO BE REMOVED AND CAPPED AT EOP WITHIN R/W

RE-CONNECT (1) SEWER SERVICE 6" PVC SDR 26
 EXTEND & ADJUST WATER SERVICE SHORT SIDE (SEE DETAIL)

REMOVE BACKFLOW/WATER METER ASSEMBLY

20 LF 8" DIP CLASS 350 W.M. BY DIRECT BURY W/PVC TO DI ADAPTERS (2) & NBR OR FKM GASKETS

2-8" 45° MJ BENDS +12,+18 W/ PVC TO DI ADAPTER
 30 LF 8" DIP CLASS 350 W.M. BY DIRECT BURY
 8" TEE,+42, 5'RT (3) 8" GV

8" X 4" REDUCER +42, 11'RT

20 LF 4" DIP CLASS 350 W.M. BY DIRECT BURY
 2-4" 45° MJ BENDS +42,24'RT +42,29'RT W/ PVC TO DI ADAPTER

JOHN PARI
 FLORIDA P.E. # 56368



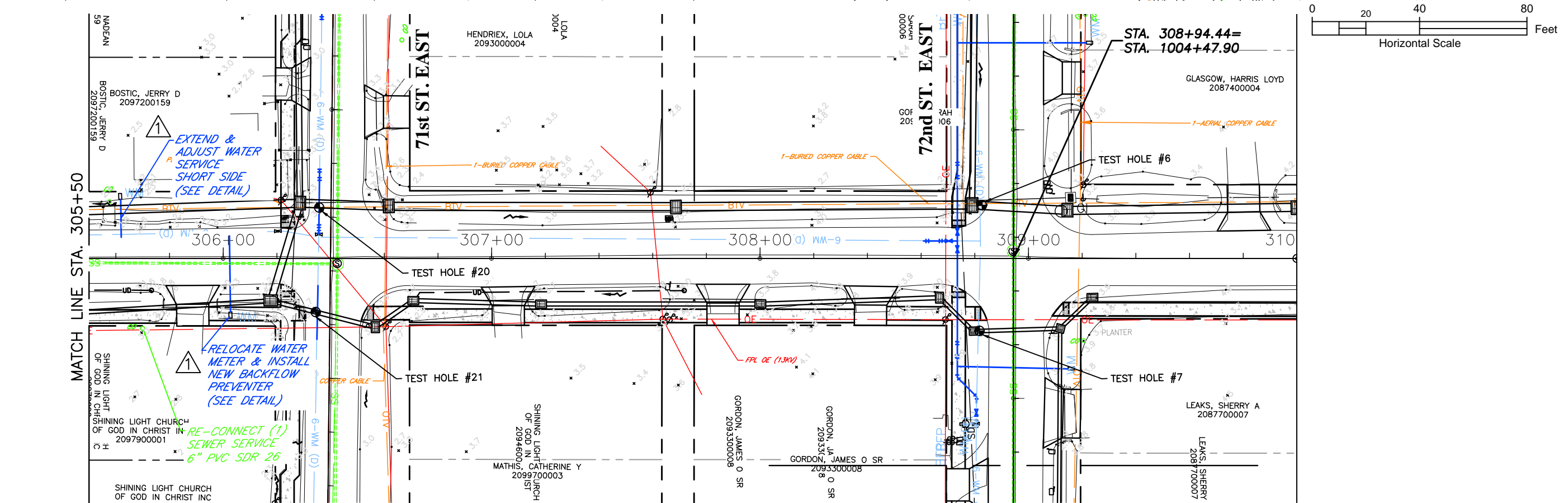
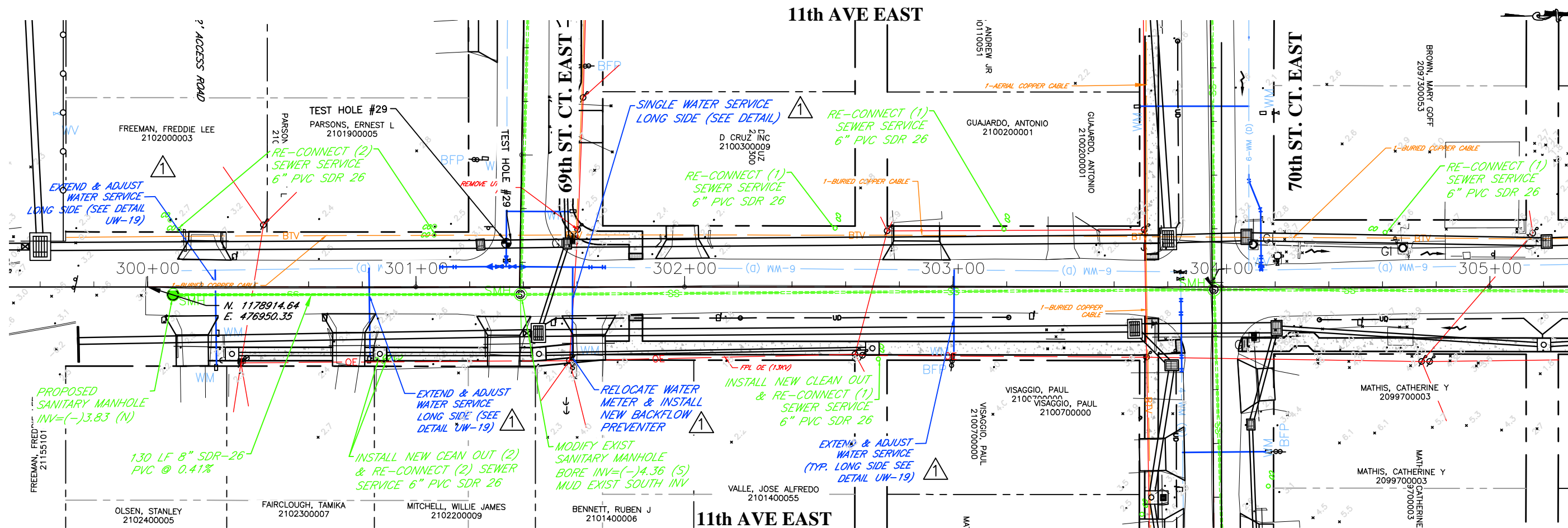
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
 69th STREET COURT EAST
 UTILITY ADJUSTMENT SHEETS

DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
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			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

Signature & Date


SHEET NO.
 50



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
FLORIDA P.E. # 56368

Signature & Date



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

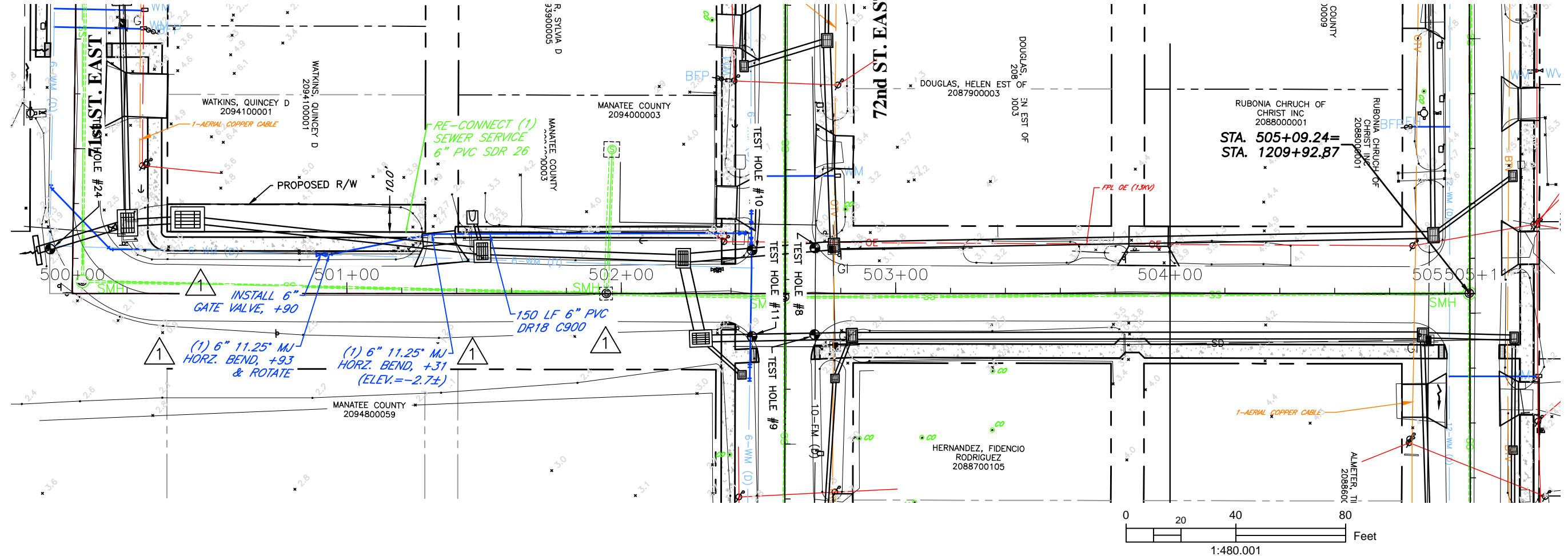
RUBONIA
11th AVENUE EAST
UTILITY ADJUSTMENT SHEETS

SHEET NO.
 51

12th AVE. DR. EAST

72nd ST. EAST

72nd ST. CT. EAST



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

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RUBONIA
12th AVENUE DRIVE EAST
UTILITY ADJUSTMENT SHEETS

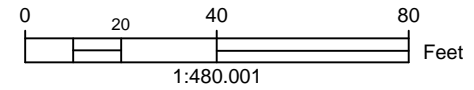
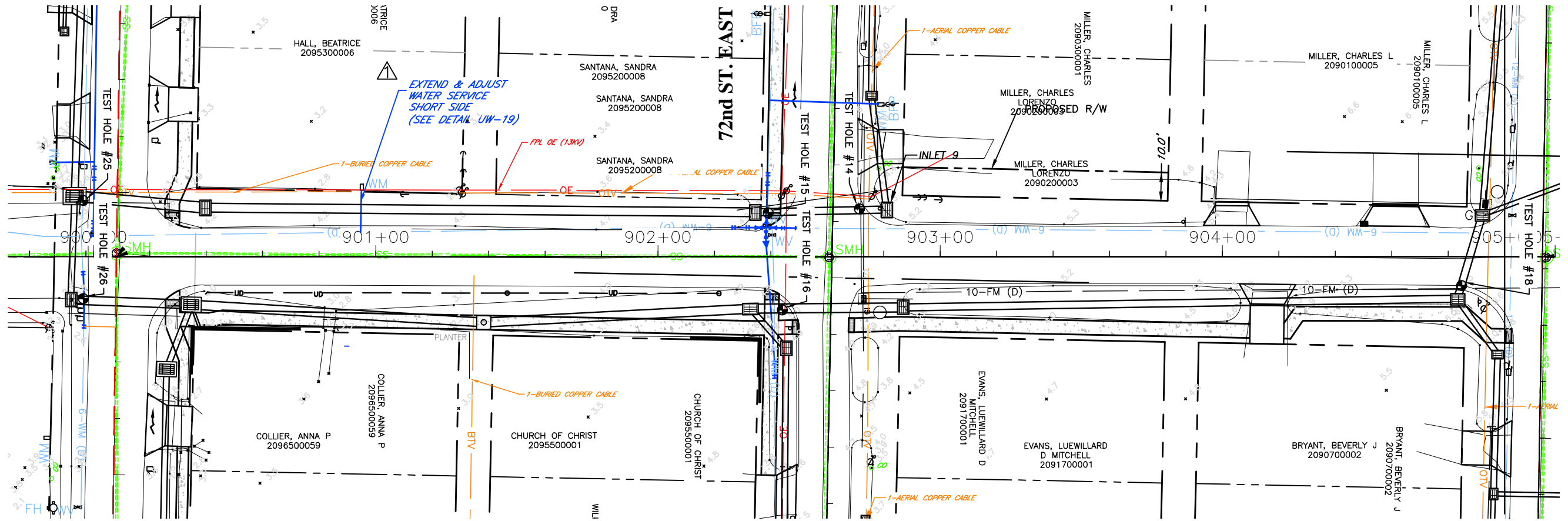
SHEET NO.
 52

15th AVE. EAST

71st ST. EAST


72nd ST. EAST

72nd ST. CT. EAST



DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

JOHN PARI
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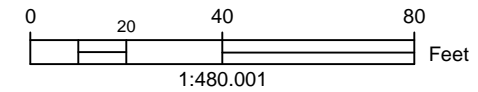
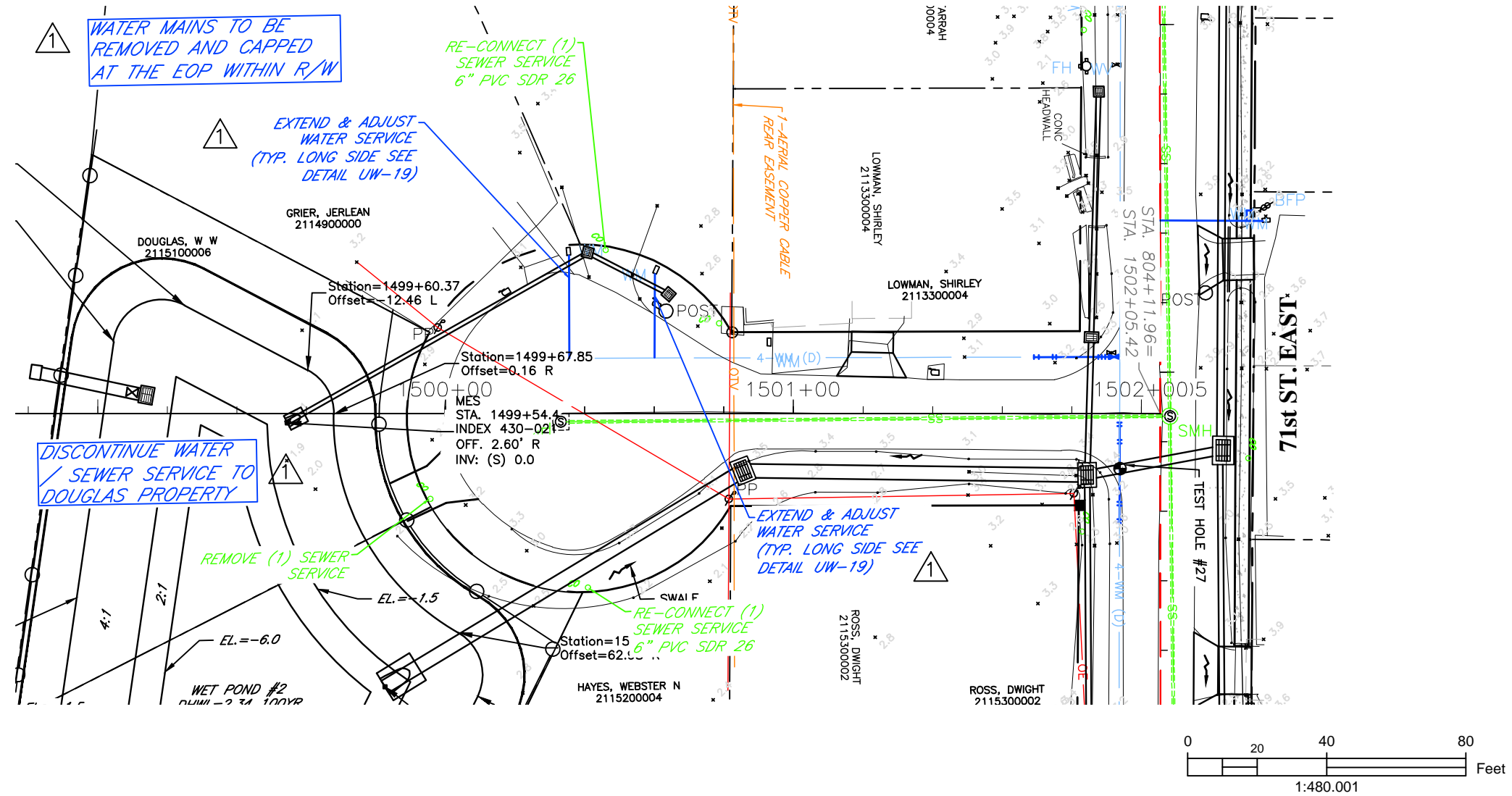


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RUBONIA
15th AVENUE EAST
UTILITY ADJUSTMENT SHEETS

SHEET NO.
 53

15th AVE. DR. EAST



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DATE	DESCRIPTION	DATE	PROJECT #	###	SURVEYED	FDC	4-11-18
	Addendum # 1	6/18/20	SURVEY #	0577-0036	DESIGNED	JKP	06/2018
			SEC./TWN./RGE	VARIES	DRAWN	KHL	06/2018
			SCALE	1"=40'	CHECKED	XXX	XX/XXXX

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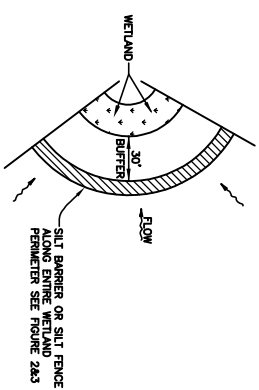
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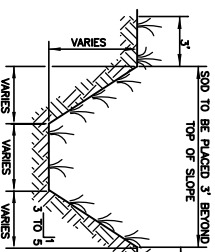
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
15th AVENUE DRIVE EAST
UTILITY ADJUSTMENT SHEETS

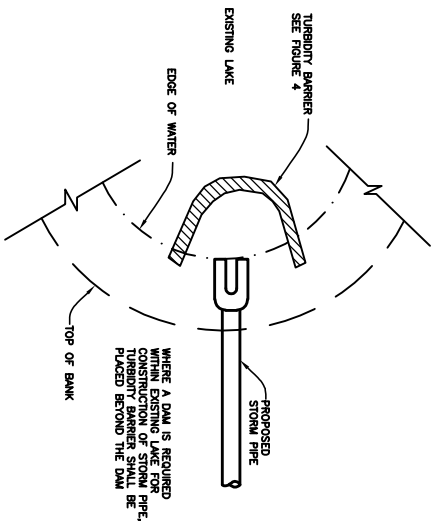
SHEET NO.
54



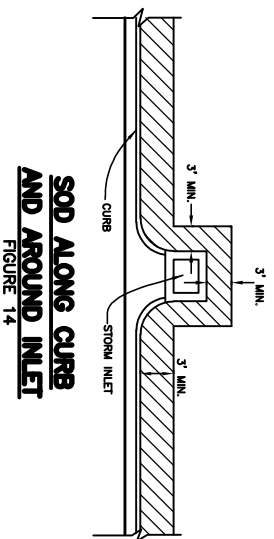
WETLAND BUFFER
FIGURE 1



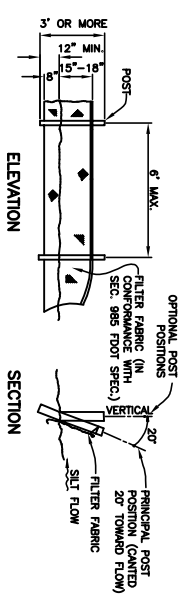
TYPICAL SWALE SECTION
FIGURE 5



TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
FIGURE 9

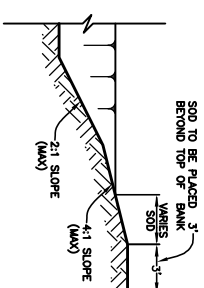


NOTE.

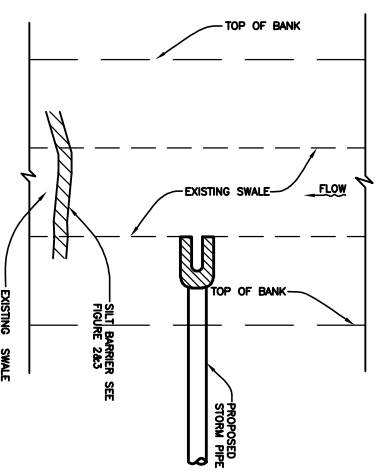


TYPICAL SILT FENCE
FIGURE 2

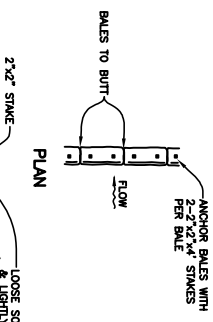
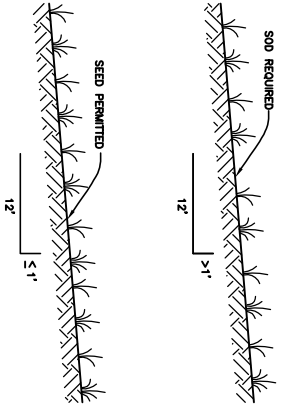
NOTE: SILT FENCE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED SILT FENCE (U7).



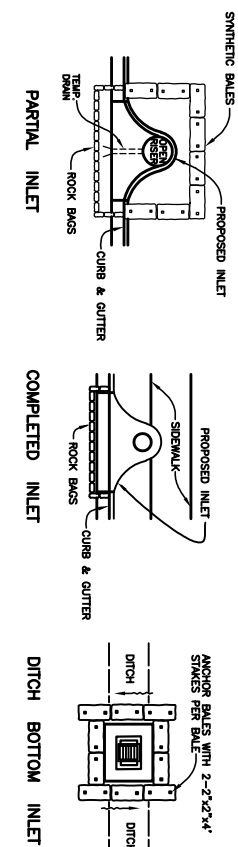
TYPICAL RETENTION/RETENTION POND SECTION
FIGURE 6



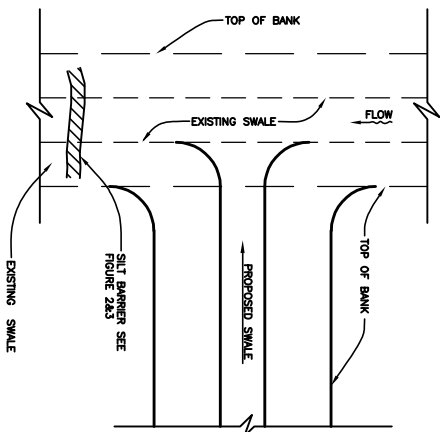
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
FIGURE 10



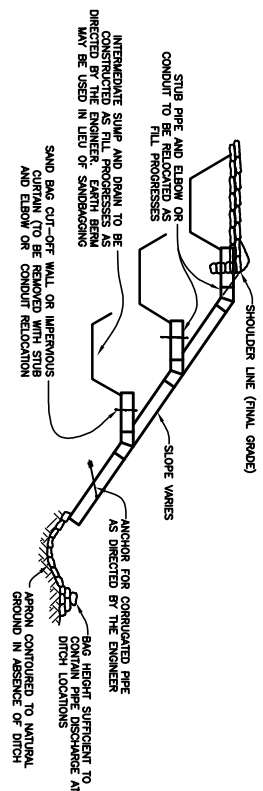
TYPICAL BALE SILT BARRIER
FIGURE 3



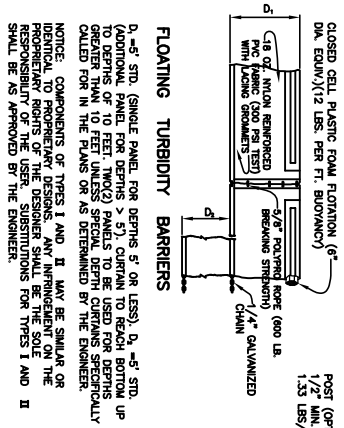
SYNTHETIC BALE PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
FIGURE 7



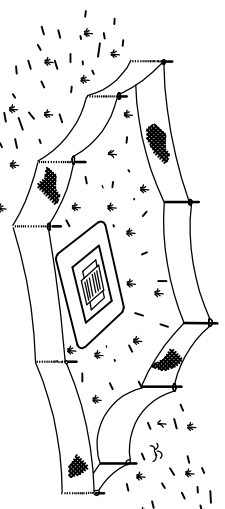
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
FIGURE 11



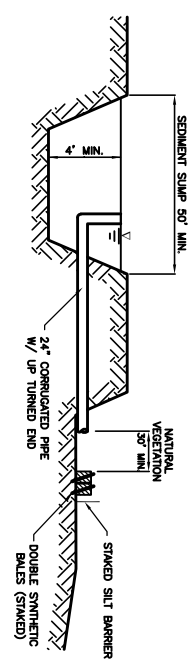
UNDERGROUND PIPE CROSSING
FIGURE 12



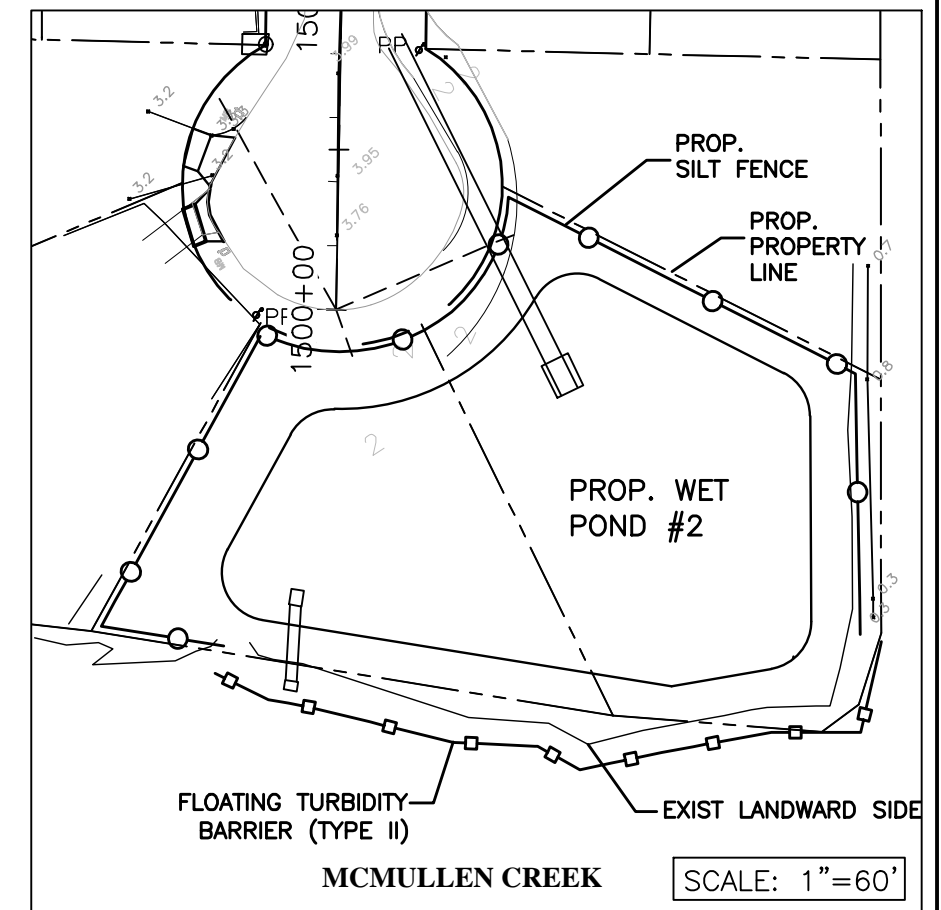
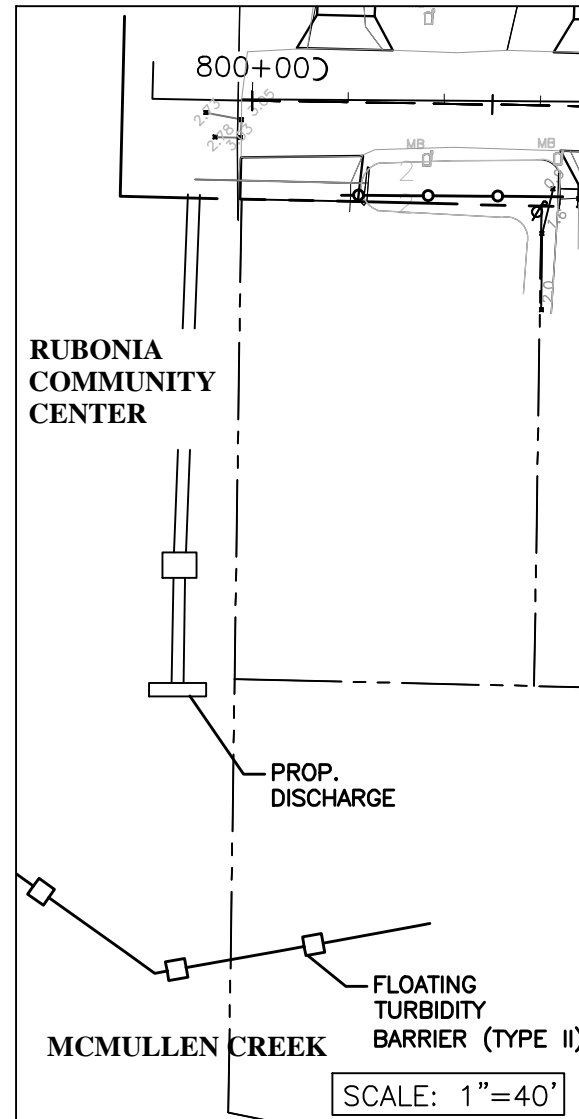
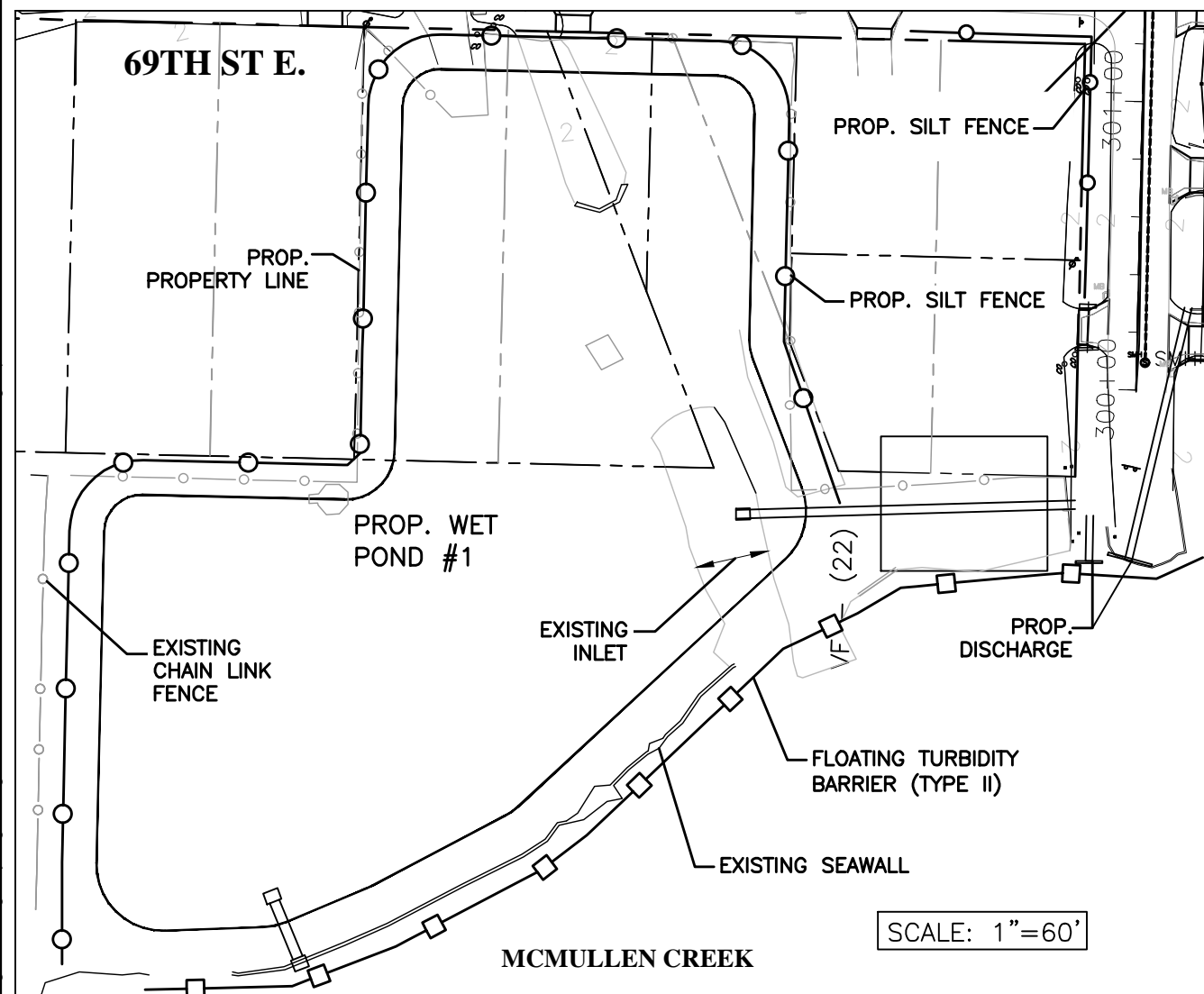
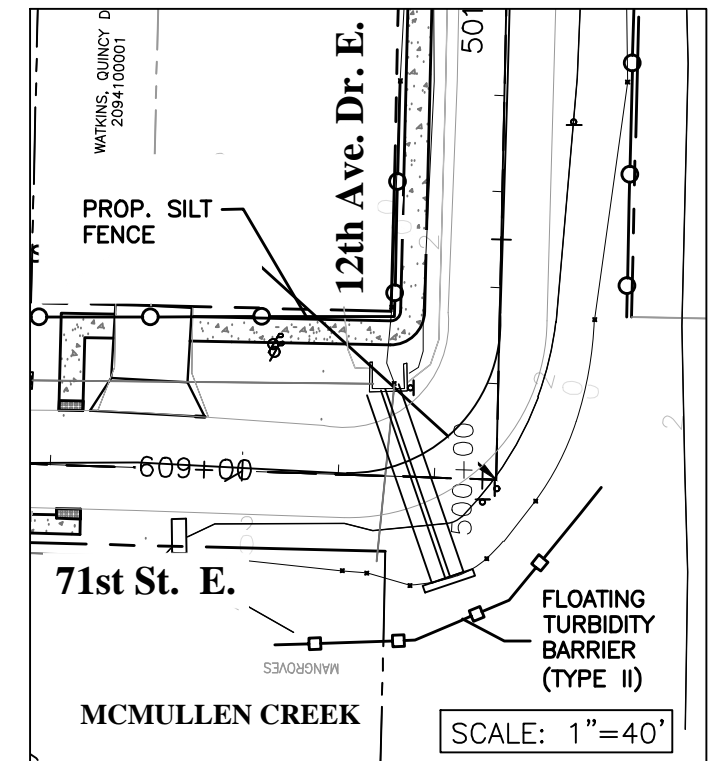
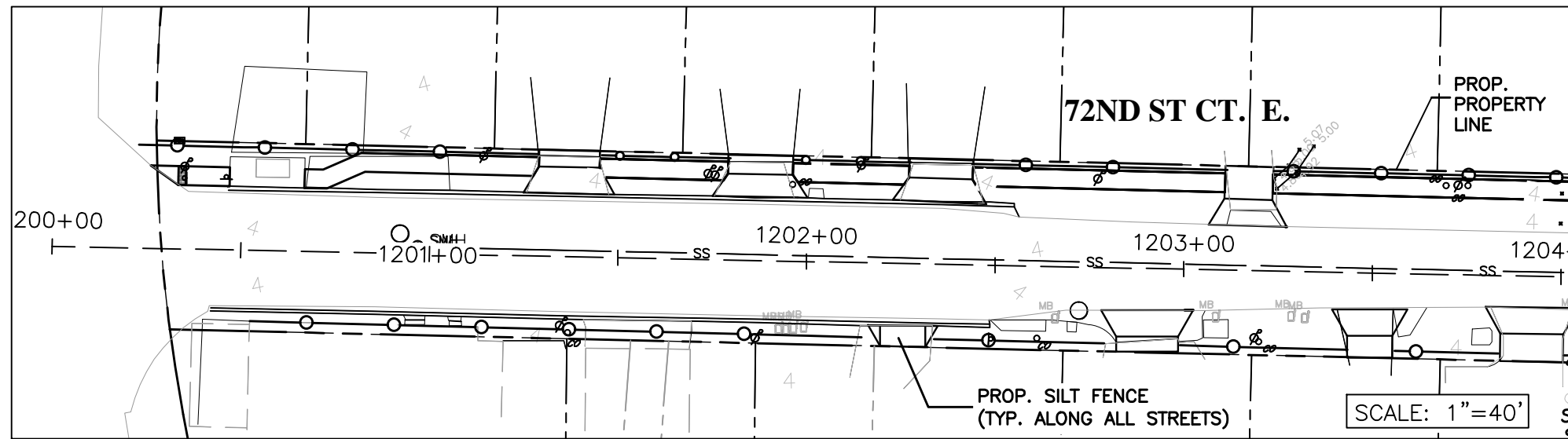
TURBIDITY BARRIERS
FIGURE 4



STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



DATE	DESCRIPTION	DATE	PROJECT #	SURVEYED	FLORIDA P.E. # 56368
			SURVEY # 12789	DESIGNED	
			SEC./TWN./RGE 01/O1S/00E	DRAWN	
			SCALE	NTS	
				CHECKED	
				JKP	
				JKP	
				08/22/19	
				08/22/19	
Signature & Date					
PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208					
RUBONIA EROSION CONTROL DETAILS					
SHEET NO. 55					



\\cadd\st\p\wd\Engineering\Share\Highway\Engineering\BROWNSIDE\WALK\SUBDIVISION\EROSION PLAN.dwg Apr 5, 20 5:54 PM

DATE	DESCRIPTION	DATE	PROJECT #	---	SURVEYED	FLORIDA DESIGN
			03/2018			
				---	DESIGNED	JKP 08/16/19
			01/01S/00E		DRAWN	JKP 08/16/19
			AS SHOWN		CHECKED	JKP 01/01/01

FLORIDA P.E. # 56368
JOHN PARI

Signature & Date



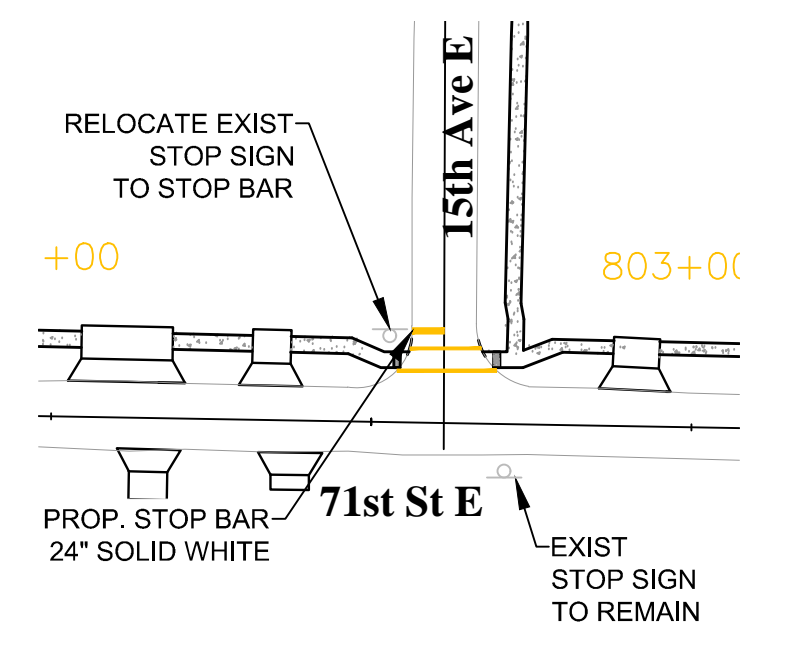
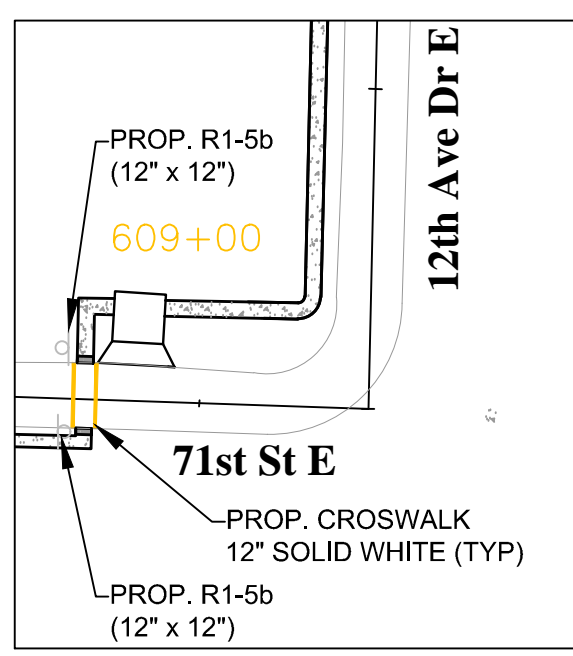
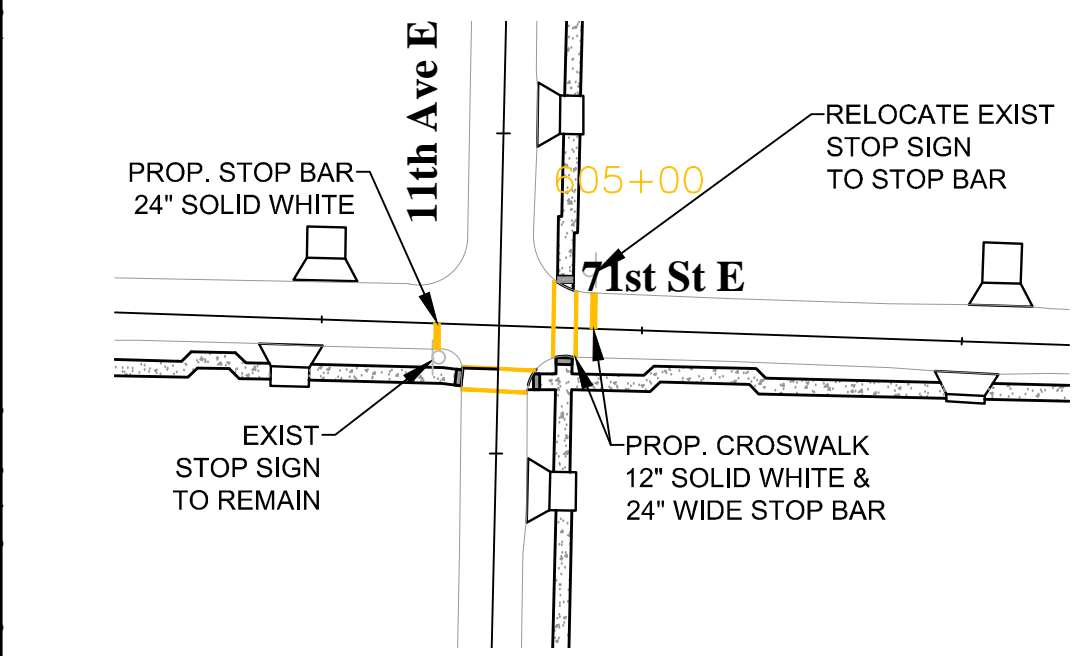
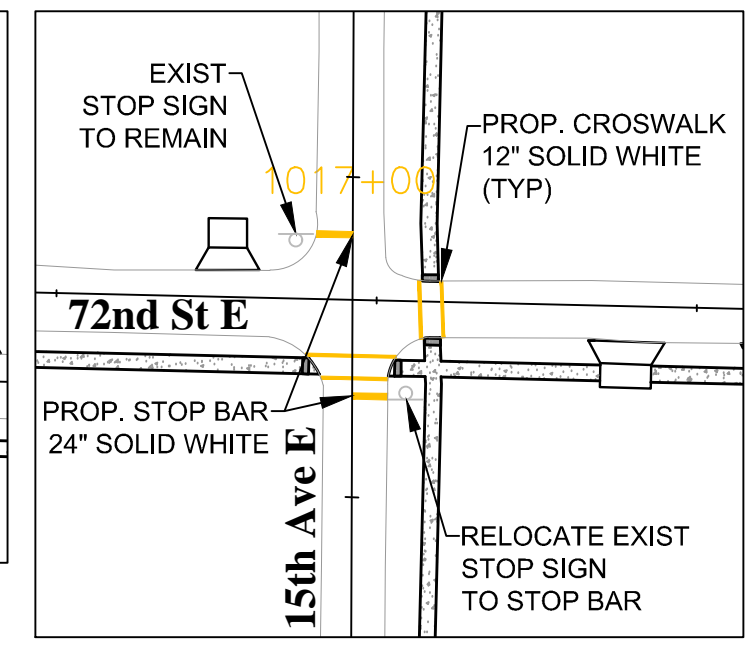
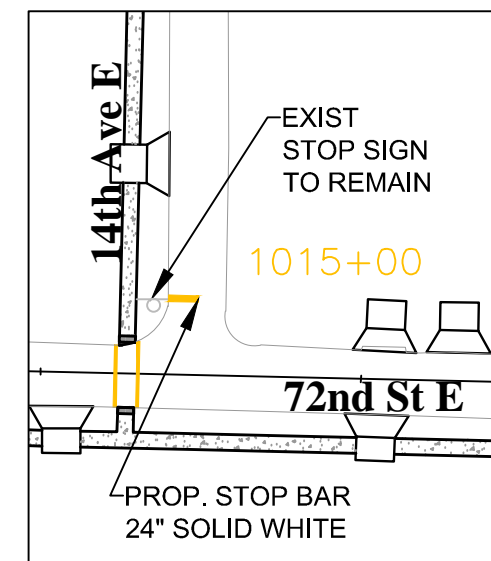
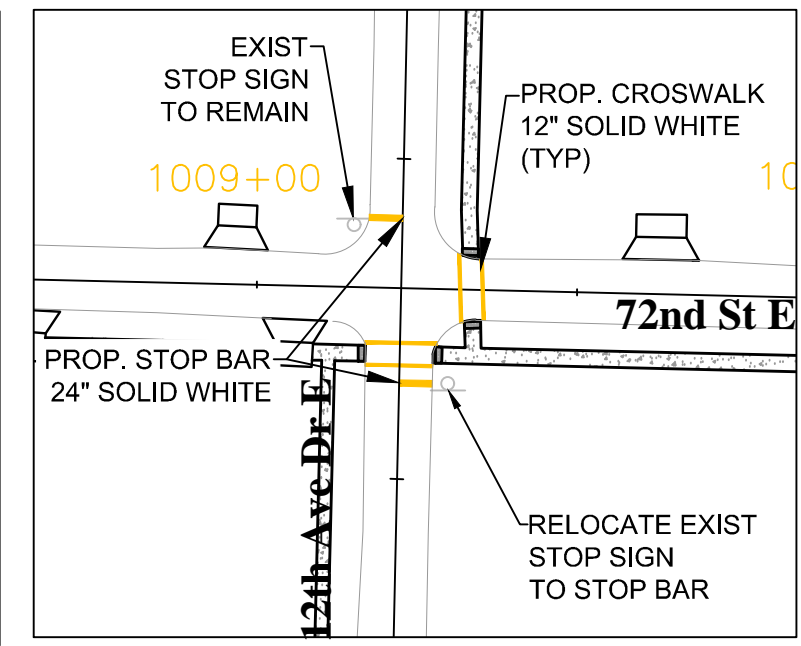
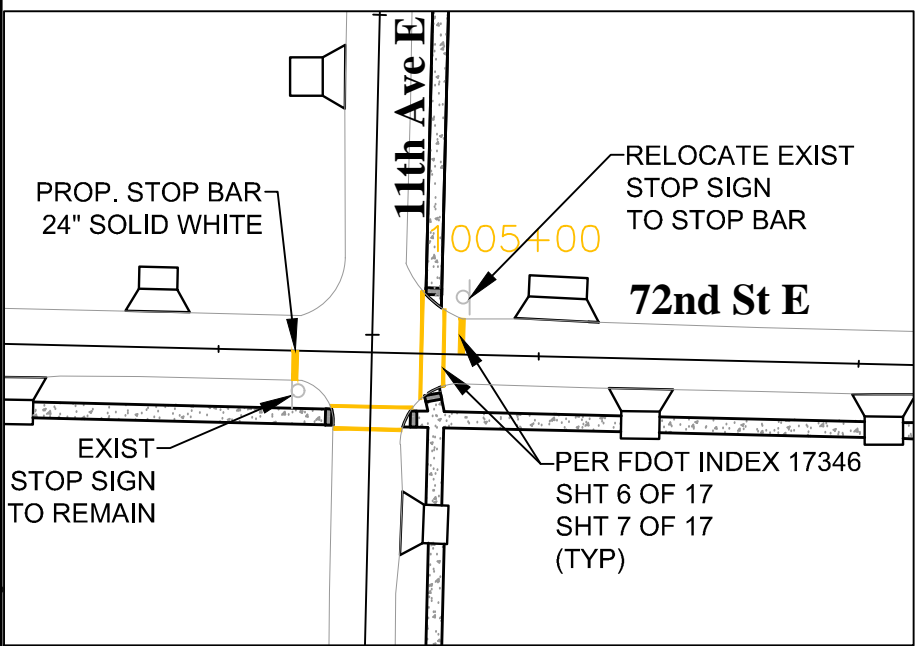
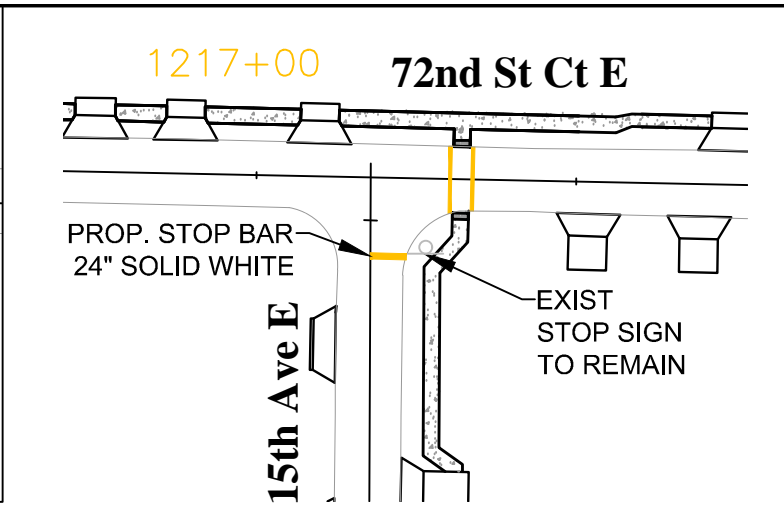
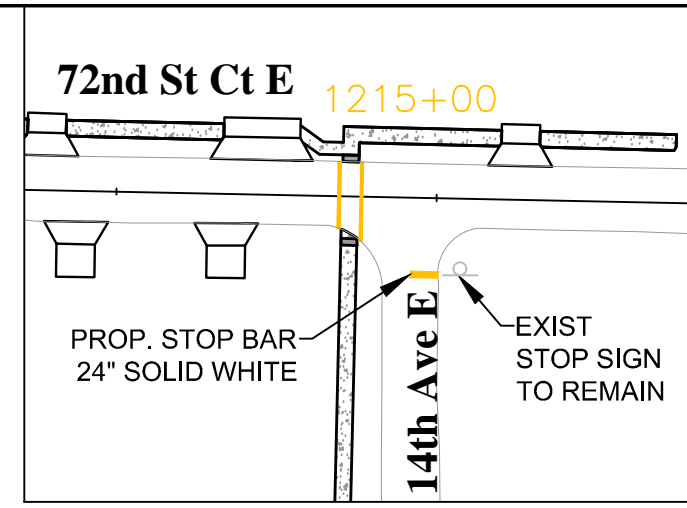
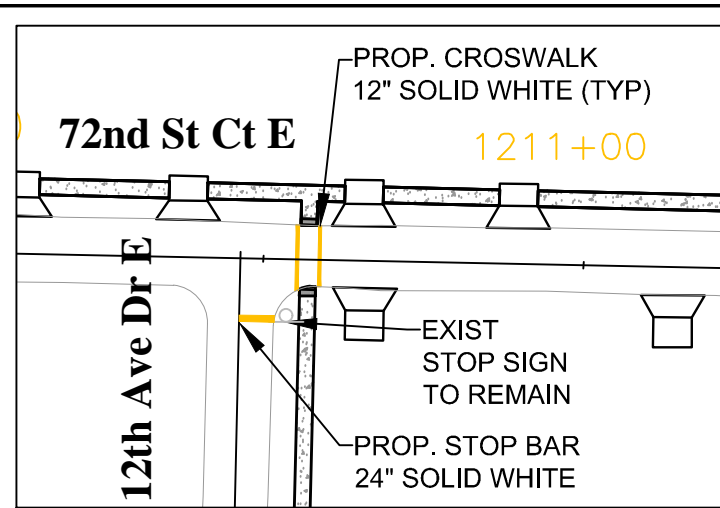
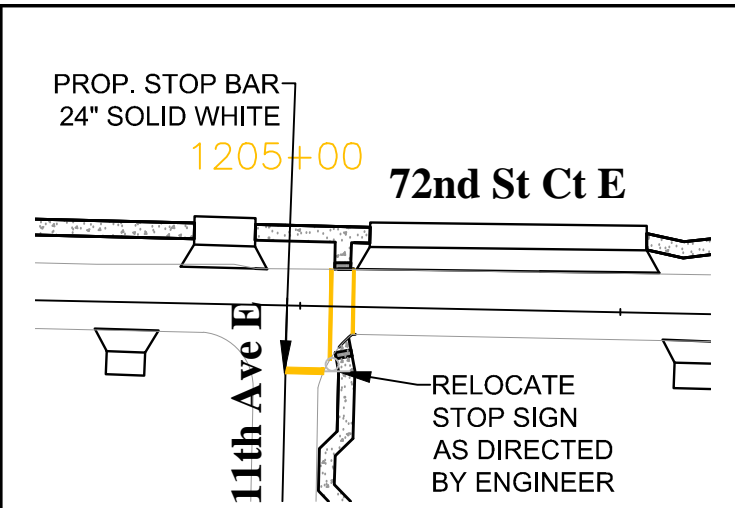
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ENGINEERING SERVICES
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RUBONIA SUBDIVISION
EROSION CONTROL PLAN

SHEET NO.

56

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DATE	DESCRIPTION	DATE	PROJECT #	#####	SURVEYED	###	#####
			SURVEY #	#####	DESIGNED	JKP	7/28/19
			SEC./TWN./RGE	#####	DRAWN	JKP	7/28/19
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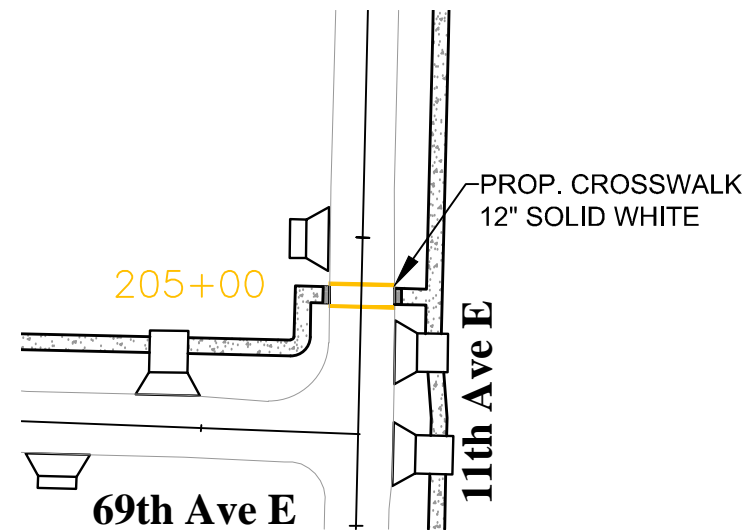
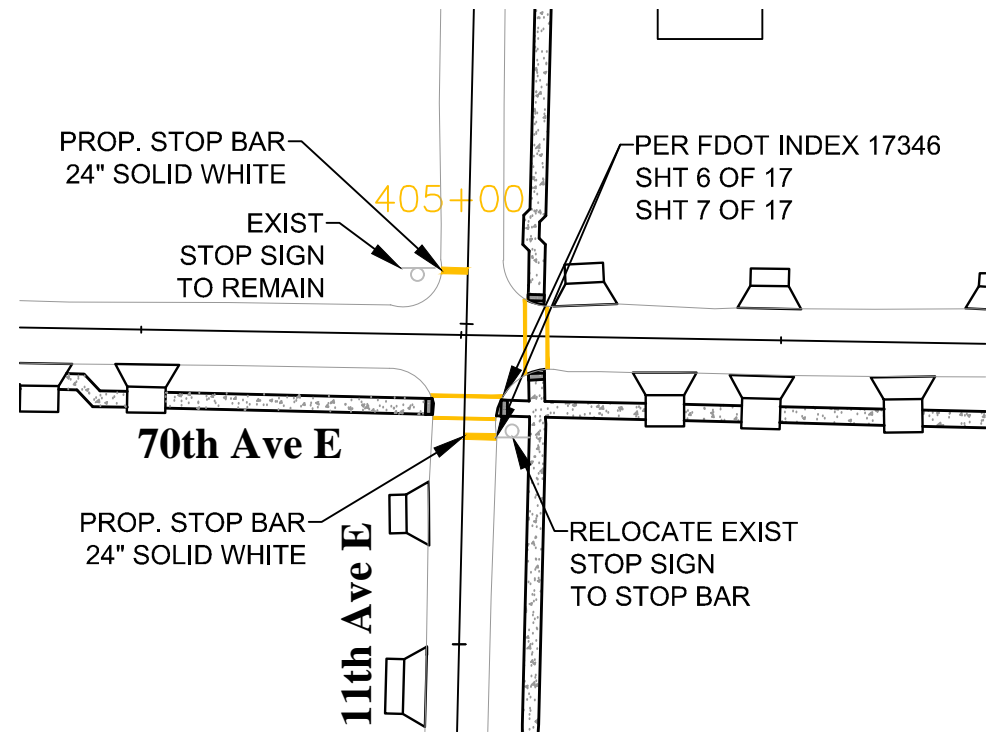
JOHN PARI
 FLORIDA P.E. #56368
 Signature & Date

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ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

RUBONIA
SIGNING & STRIPING PLAN

SHEET NO.
 57

\\scadis\p\m\Engineering\Share\Highway Engineering\PROJECTS\WALKS\Rubonia\DWG\Rubonia_Signing_Plan.dwg - Feb. 27.20 - 2:54 PM



DATE	DESCRIPTION	DATE	PROJECT #	#####	SURVEYED	###	#####
			SURVEY #	####	DESIGNED	JKP	7/28/19
			SEC./TWN./RGE	#####	DRAWN	JKP	7/28/19
			SCALE	1"=60'	CHECKED	MM	#####

JOHN PARI
FLORIDA P.E. #56368

Signature & Date



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SIGNING & STRIPING PLAN

SHEET NO.

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