

CONSTRUCTION PLANS FOR

MOCCASIN WALLOW ROAD

SEGMENT 1 (PHASE 1) WEST OF 75TH STREET E EAST TO WEST OF US 301

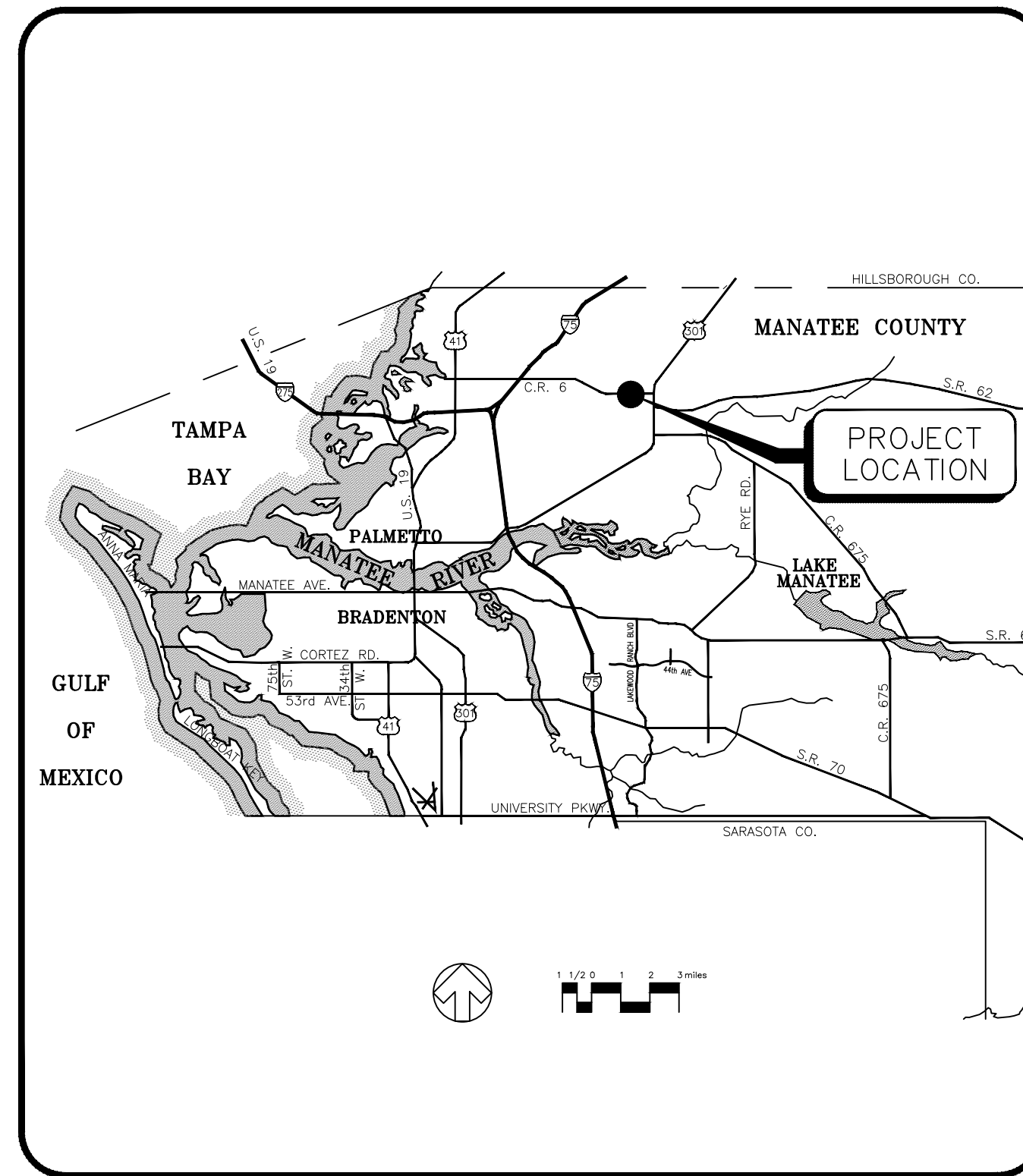
NOTES

1. THE PROJECT CONSISTS OF 7,600 LF OF FOUR-LANE ROADWAY ON MOCCASIN WALLOW ROAD WITH ASSOCIATED STORMWATER AND UTILITY IMPROVEMENTS.
2. THE PROJECT IS THE FIRST SEGMENT OF THREE. THE FULL EXTENT OF THE IMPROVEMENTS WILL BEGIN AT I-75 AND TERMINATE AT U.S. 301.
3. THE SITE IS CURRENTLY A TWO LANE ROAD WITH MINIMAL TURN LANES AND OPEN DRAINAGE.
4. THE TOTAL PROJECT AREA IS 27.80 ACRES. THE SWFWMD PROJECT AREA IS 33.48 ACRES
5. THE RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY MANATEE COUNTY, AND THE STORMWATER MANAGEMENT SYSTEM WILL BE OWNED AND MAINTAINED BY FIELDSTONE COMMUNITY DEVELOPMENT DISTRICT
6. BOUNDARY DATA SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.
7. SEE THE AERIAL SITE PLAN FOR EXISTING ZONING AND LAND USE FOR THE SURROUNDING PROPERTIES.
8. THE SITE IS LOCATED WITHIN FLOOD ZONES "X", "A", AND "AE" PER MANATEE COUNTY FEMA FIRM COMMUNITY PANELS 12081C0183E (MARCH 17, 2014), 12081C0179E (MARCH 17, 2014), 12081C0177E (MARCH 17, 2014) AND 12081C0181E (MARCH 17, 2014).
9. THERE ARE NO EXISTING BUILDINGS AND/OR HISTORIC SITES ON THIS SITE.
10. THIS PROJECT IS BEING DESIGNED, PERMITTED AND CONSTRUCTED FOR MANATEE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES THROUGH AN AGREEMENT WITH NORTH COUNTY PARTNERSHIP, LLC.
11. DEVELOPMENT SHALL COMMENCE IN JUNE 2021 AND IS TO CONTINUE THROUGH JUNE 2024.
12. EXISTING AND PROPOSED TOPOGRAPHY SHOWN ON PLANS ARE NAVD 88 AND COMPILED FROM PHOTOGRAMMETRY AND FIELD INFORMATION OBTAINED BY STANTEC. THE CONVERSION FACTOR TO NGVD 1929 IS 0.96'.
13. ALL EXISTING WETLANDS ADJACENT TO SITE HAVE BEEN LOCATED. WETLANDS DATA IS PROVIDED BY STANTEC CONSULTANTS, INC. AND IS DEPICTED ON THE OTHER SURFACE WATER IMPACT PLAN AND THE DRAINAGE, PAVING AND GRADING PLAN. SWFWMD AND USACE PERMITS HAVE BEEN OR WILL BE OBTAINED AS REQUIRED.
14. THIS PROJECT HAS BEEN DESIGNED TO PROVIDE REASONABLE ASSURANCE THAT ALL APPLICABLE PERMITS CAN BE OBTAINED.
15. THERE ARE NO ONSITE WELLS. ANY EXISTING WELLS FOUND DURING CONSTRUCTION SHALL BE PLUGGED BY A LICENSED WELL DRILLING CONTRACTOR IN ACCORDANCE WITH SWFWMD RULE CHAPTER 40D-3.531.
16. SITE LIGHTING WILL BE IN ACCORDANCE WITH MANATEE COUNTY SPECIFICATIONS AND WILL BE COMPLETED PRIOR TO TURNOVER TO MANATEE COUNTY.
17. THE STORMWATER MANAGEMENT SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH MANATEE COUNTY REQUIREMENTS, 62-25 F.A.C. REQUIREMENTS AND 40D-4 F.A.C. REQUIREMENTS.
18. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
19. NOTICE "SUNSHINE STATE ONE CALL (811), MANATEE COUNTY PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, PEACE RIVER ELECTRIC, VERIZON AND ANY OTHER UTILITIES (GAS COMPANIES, CABLE TV, ETC.) PRIOR TO CONSTRUCTION OPERATION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
20. CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
21. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. TREE PROTECTION BARRICADES SHALL MEET THE STANDARDS OF MANATEE COUNTY LAND DEVELOPMENT CODE. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING. THE ENGINEER SHALL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR THE PROTECTION OF PRESERVE AREAS SUBJECT TO THE APPROVAL OF SWFWMD & MANATEE COUNTY EPD THE CONTRACTOR SHALL NOTIFY THE ENGINEER & MANATEE COUNTY EPD WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM MANATEE COUNTY.
22. ALL LIMITS OF CONSTRUCTION FOR THE OUTFALL PIPE/STRUCTURE/SPREADER SWALE SHALL BE STAKED PRIOR TO ANY CONSTRUCTION WITHIN THE LAKES OR WETLAND/BUFFERS. APPROVAL FROM THE ENGINEER AND THE OWNER IS REQUIRED BEFORE THE EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
23. FILLING, EXCAVATING OR REMOVAL OF NATIVE VEGETATION SHALL BE PROHIBITED IN THE PRESERVATION AREA, UNLESS APPROVED BY MANATEE COUNTY EPD.
24. THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWFWMD PERMIT FOR THE PROJECT ON SITE.
25. ALL CONCRETE PIPES SHALL HAVE A FILTER FABRIC MINIMUM 12" EACH SIDE OF JOINT WITH MINIMUM 24" OVERLAP AT SEAM PER FDOT INDEX. 430-001 & ALL APPLICABLE COUNTY REQUIREMENTS. IN ADDITION, ALL ELLIPTICAL PIPE SHALL HAVE ALL JOINTS WRAPPED.
26. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
27. ANY EXISTING PRIVATE UTILITIES LOCATED ON SITE ARE TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
28. SANITARY SEWER AND POTABLE WATER SYSTEMS AND RECLAIMED WATER SHALL BE DEDICATED TO MANATEE COUNTY FOR PERPETUAL MAINTENANCE.
29. ALL REQUIRED SITE IMPROVEMENTS WILL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 722, "INSTALLATION OF REQUIRED IMPROVEMENTS" OF THE MANATEE COUNTY LAND DEVELOPMENT CODE.
30. THE RECLAIMED SOURCE SHALL BE NON-POTABLE FROM MANATEE COUNTY. NON-POTABLE WATER LINES SHALL BE PURPLE IN COLOR.
31. ANY SIGNIFICANT HISTORICAL OR ARCHEOLOGICAL RESOURCES DISCOVERED DURING DEVELOPMENT ACTIVITIES SHALL BE IMMEDIATELY REPORTED TO THE FLORIDA DIVISION OF HISTORICAL RESOURCES AND TREATMENT OF SUCH RESOURCES SHALL BE DETERMINED IN COOPERATION WITH THE DIVISION OF HISTORICAL RESOURCES AND MANATEE COUNTY. TREATMENT OF RESOURCES MUST BE COMPLETED BEFORE RESOURCE-DISTURBING ACTIVITIES ARE ALLOWED TO CONTINUE. IF HUMAN REMAINS ARE ENCOUNTERED, THE PROVISIONS CONTAINED IN CHAPTER 872, FLORIDA STATUTES (OFFENSES CONCERNING DEAD BODIES AND GRAVES) SHALL BE FOLLOWED.
32. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT DESIGN STANDARDS AND THE MANATEE COUNTY TRANSPORTATION DEPARTMENT - HIGHWAY, TRAFFIC & STORMWATER STANDARDS.
33. NO "CEMENT TREATED BASE" IS ALLOWED ON MANATEE COUNTY THOROUGHFARES. THE BASE MATERIAL SHALL BE FROM A FDOT APPROVED VENDOR AND SHALL BE APPROVED BY MANATEE COUNTY.
34. CRUSHED CONCRETE SHALL BE FROM A FDOT APPROVED VENDOR.
35. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST, UNTIL THEN, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES AND GRASS IS THE RESPONSIBILITY OF THE CONTRACTOR.
36. WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUB-CONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE THE SAME.
37. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY ENGINEER.
38. ALL UTILITY LINES, STORM DRAIN LINES, AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO, MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS, AND INLETS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY ENGINEER.
39. CONTRACTOR SHALL CONSTRUCT ALL VALVES SO THAT NO VALVE BOXES ARE LOCATED IN HANDICAP RAMPS AND/OR CURBING. IF VALVES ARE FOUND TO BE IN THESE LOCATIONS, THE COST OF VALVE RELOCATION IS THE CONTRACTOR'S RESPONSIBILITY.
40. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWFWMD ERP INFORMATION MANUAL, LATEST EDITION AND THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST EDITION.
41. WATER MAIN, SANITARY FORCE MAIN & RECLAIMED WATER MAINS SHALL BE COMPLETED, TESTED, CERTIFIED AND PLACED INTO SERVICE PRIOR TO FINAL PAVEMENT, BASE, CURB AND SIDEWALK BEING INSTALLED.

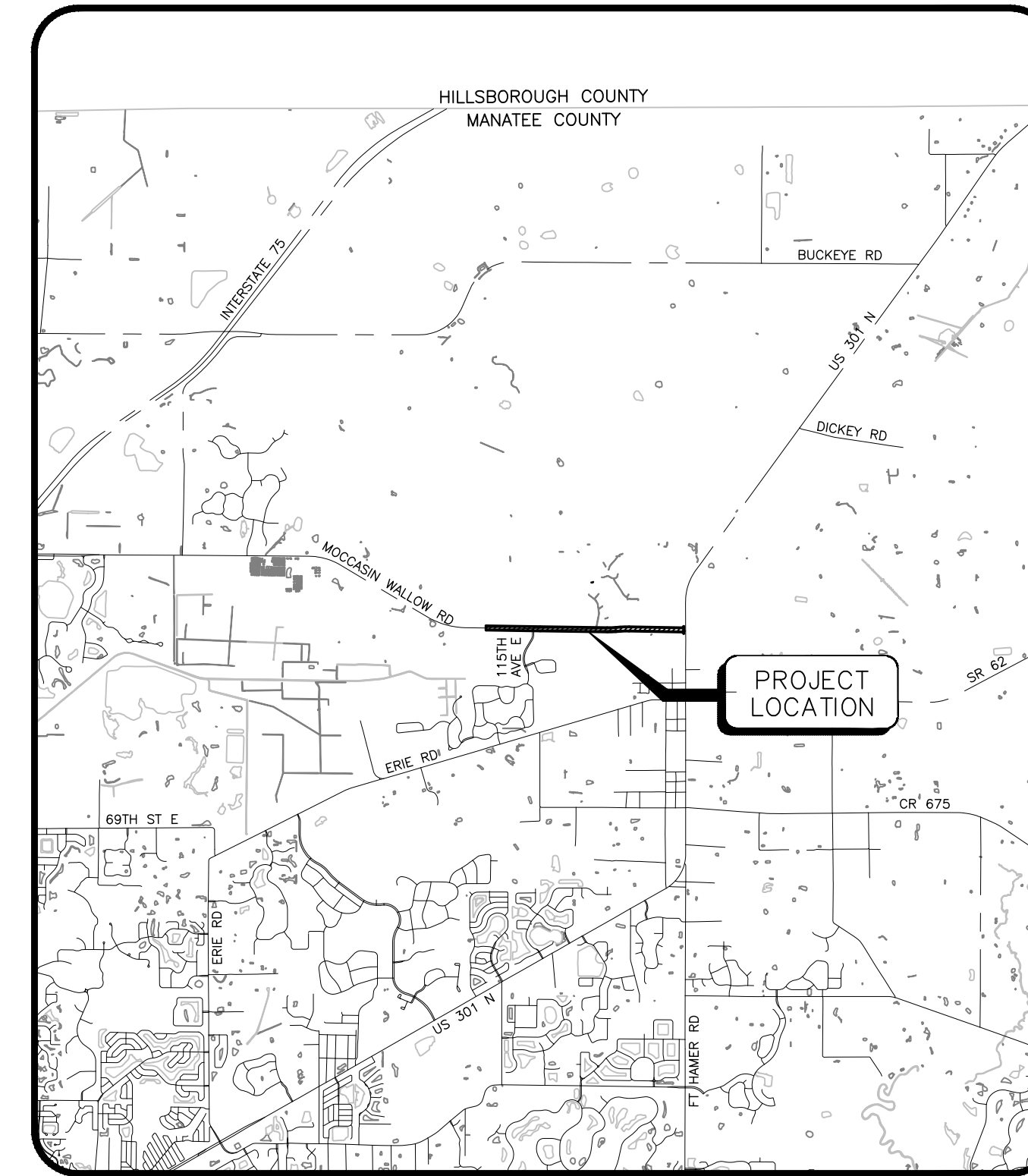
PART OF SECTION 19 AND 20, TOWNSHIP 33 SOUTH, RANGE 19 EAST,
MANATEE COUNTY, FLORIDA

A DEVELOPMENT BY
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES

1022 26TH AVE. EAST
BRADENTON, FL, 34208
(941)-708-7450



LOCATION MAP



SITE MAP

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	AERIAL SITE PLAN
3	SITE SURVEY CONTROL SHEET
4	MASTER SITE PLAN AND KEY SHEET
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7A-7C	UTILITY ADJUSTMENT PLAN
8	TYPICAL ROAD SECTIONS
9	GENERAL NOTES AND LEGEND
10-12	SITE PLAN
13	EAST END INTERIM CONDITION PLAN
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15	PROPOSED DRAINAGE MAP
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18	SUMMARY OF DRAINAGE STRUCTURES
19-21	PAVING, GRADING AND DRAINAGE PLAN
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23	MASTER UTILITY PLAN
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90	WASTEWATER DETAILS
91-92	WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS
93	BEST MANAGEMENT PRACTICES PLAN
94	BEST MANAGEMENT PRACTICES DETAILS
95-112	TEMPORARY TRAFFIC CONTROL PLAN

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▲			
▲	6/2/22	REVISED SHEETS 5-7A, 69-71, 72A	MSC/98616
▲	4/15/22	REV 2, 5-7C, 21, 23, 25, 26, 28, 29, 31-33, 35-42, 67-68, 69-72, 91, 100, 101, 108, 109 & 112. ADDED 72A. REMOVED 13.	MSC/98616
▲	11/5/21	REVISED SHEETS 2-83, 88 & 93	MSC/98616
▲	6/8/21	ISSUED 10% SET	
▲	10/12/20	ISSUED 10% SET	
NO.	DATE	DESCRIPTION	BY

STATUS : 100% SUBMITTAL

PROJECT SURVEYOR BOB CUNNINGHAM, P.S.M.	PROJECT ENGINEER ALEXANDRA JOHNSON, P.E. FLORIDA LICENSE NO. 91109	PROJECT MANAGER ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602
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DATE _____	CHECKED BY _____
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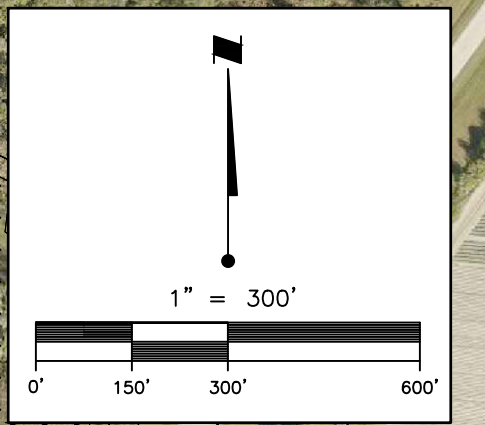
RESERVED FOR STATUS AND DATE STAMPS

PROJECT NUMBER
215615900

DATE OCTOBER 2020	INDEX NUMBER 21565900-01C-001CV
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6900 Professional Parkway East, Sarasota, FL 34240-8414
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Certificate of Authorization #27013 • www.stantec.com



ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE:
GRAZING CLASS 1

ZONING: PD-MU
(PLANNED DEVELOPMENT MIXED USE)
FLU: UF-3
CURRENT USE: CLASS 1/
AGRICULTURE
PROJECT NAME: NORTH RIVER RANCH

ZONING: PD-MU
(PLANNED DEVELOPMENT MIXED USE)
FLU: UF-3
CURRENT USE: CLASS 1/
AGRICULTURE
PROJECT NAME: NORTH RIVER RANCH

ZONING: PD-MU
(PLANNED DEVELOPMENT MIXED USE)
FLU: UF-3
CURRENT USE: CLASS 1/
AGRICULTURE

ZONING: A, A-1
(GENERAL AGRICULTURE)
FLU: UF-3
CURRENT USE:
GRAZING CLASS 1

ZONING: A, A-1
(GENERAL AGRICULTURE)
FLU: UF-3
CURRENT USE:
GRAZING CLASS 1

EXISTING LAKE #3

EXISTING LAKE #8

EXISTING LAKE #9

EXISTING LAKE #6A

EXISTING LAKE #6B

SWFWMD PROJECT AREA = 33.48 AC

LAKE #1

WETLAND W37

EXISTING LAKE #L-4B

ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE: RESIDENTIAL
COMMON AREA
PROJECT NAME: SUMMERWOODS

EXISTING LAKE #L-2

EXISTING LAKE #L-1

ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE: VACANT/
PUBLIC COUNTY SCHOOL

EXISTING LAKE #16

ZONING: PD-MU
(PLANNED DEVELOPMENT MIXED USE)
FLU: UF-3
CURRENT USE: VACANT/
AGRICULTURE
PROJECT NAME: MORGAN'S GLEN

ZONING: A-1
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE: SINGLE FAMILY

ZONING: A-1, VIL
(GENERAL AGRICULTURE)
FLU: UF-3
CURRENT USE:
GRAZING CLASS 1

LAKE #301A

ZONING: A-1, VIL
(GENERAL AGRICULTURE)
FLU: UF-3
CURRENT USE:
GRAZING CLASS 1

ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE: RESIDENTIAL
COMMON AREA
PROJECT NAME: COPPERSTONE

ZONING: VIL
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3, RES-6
CURRENT USE:
SINGLE FAMILY

ZONING: A-1
(SINGLE FAMILY RESIDENTIAL)
FLU: UF-3
CURRENT USE:
SINGLE FAMILY

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
D	REVISED PROJECT AREA	4/15/22	MSC/98616			DESIGNED BY:		10/2020
C	ADDED PROJ NAMES & LAKE NAMES, REVISED PROJ AREA	11/5/21	MSC/98616			CHECKED BY:		10/2020
						CONTRACT ADMIN. BY:		
						WM APPROVED BY:		

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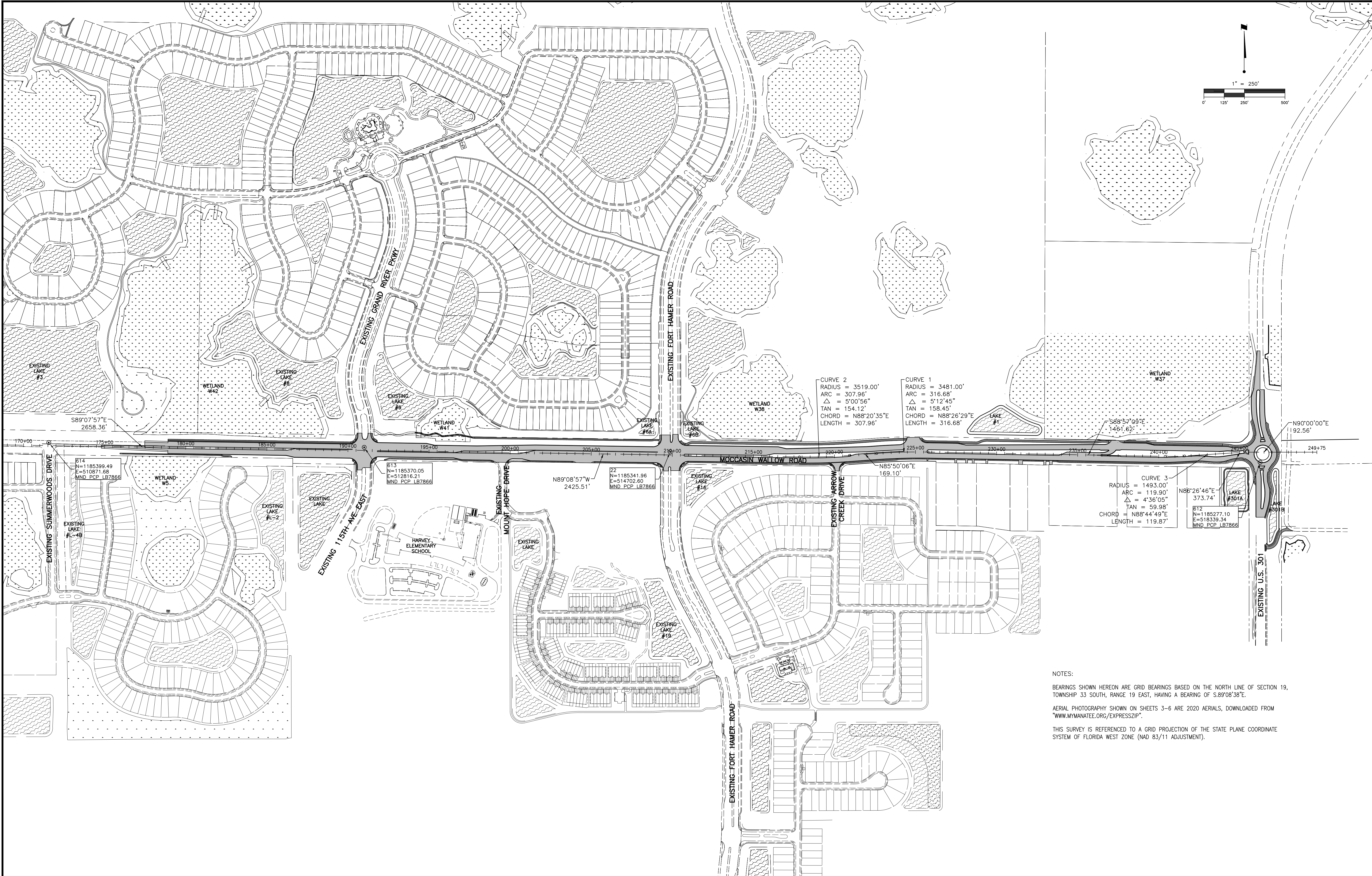
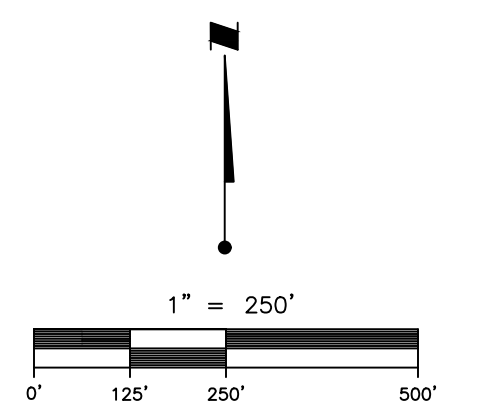
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CLIENT: MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD
SEGMENT 1

DATE: 10/2020
HORIZONTAL SCALE: 1" = 300'
VERTICAL SCALE:

TITLE: AERIAL SITE PLAN

ROBERT A. ENGEL, P.E.
FLORIDA LICENSE NO. 58602
PROJECT NUMBER: 21565900-01C-002PL
SHEET NUMBER: 2 OF 112



NOTES:
 BEARINGS SHOWN HEREON ARE GRID BEARINGS BASED ON THE NORTH LINE OF SECTION 19, TOWNSHIP 33 SOUTH, RANGE 19 EAST, HAVING A BEARING OF S.89°08'38"E.
 AERIAL PHOTOGRAPHY SHOWN ON SHEETS 3-6 ARE 2020 AERIALS, DOWNLOADED FROM "WWW.MYMANATEE.ORG/EXPRESSZIP".
 THIS SURVEY IS REFERENCED TO A GRID PROJECTION OF THE STATE PLANE COORDINATE SYSTEM OF FLORIDA WEST ZONE (NAD 83/11 ADJUSTMENT).

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	ADDED CALLOUTS	11/5/21	MSC/98616		

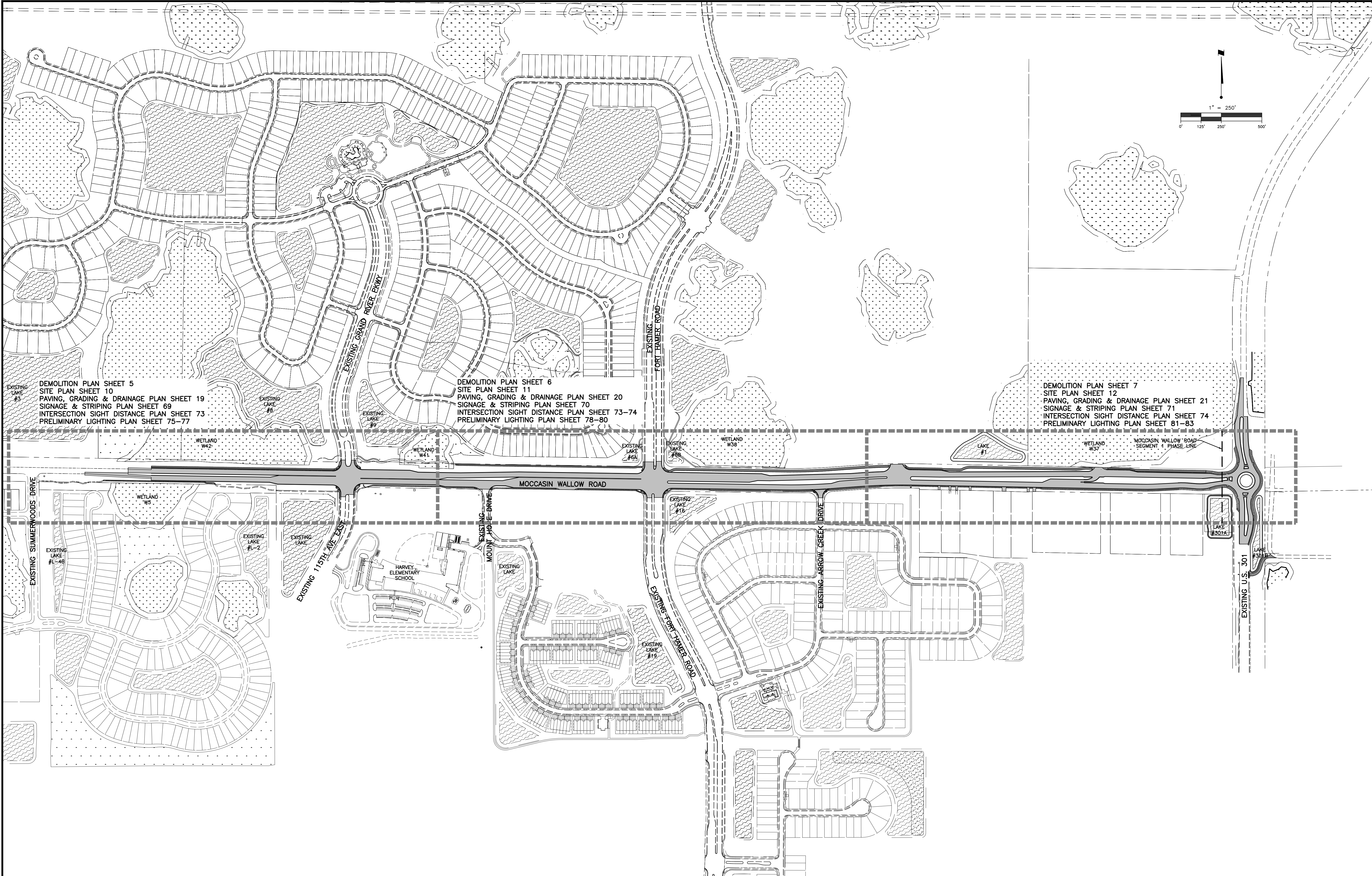
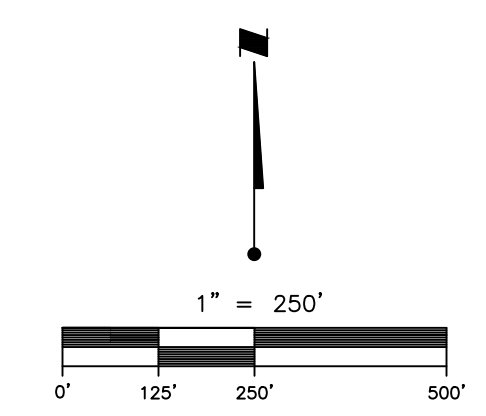
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE:
 SEC: 19 TWP: 33S RGE: 19E
 CROSS REFERENCE FILE NO.:
 PROJECT NUMBER: 215615900
 TITLE: SITE SURVEY CONTROL SHEET

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-100SP
 SHEET NUMBER: 3 OF 112



DEMOLITION PLAN SHEET 5
 SITE PLAN SHEET 10
 PAVING, GRADING & DRAINAGE PLAN SHEET 19
 SIGNAGE & STRIPING PLAN SHEET 69
 INTERSECTION SIGHT DISTANCE PLAN SHEET 73
 PRELIMINARY LIGHTING PLAN SHEET 75-77

DEMOLITION PLAN SHEET 6
 SITE PLAN SHEET 11
 PAVING, GRADING & DRAINAGE PLAN SHEET 20
 SIGNAGE & STRIPING PLAN SHEET 70
 INTERSECTION SIGHT DISTANCE PLAN SHEET 73-74
 PRELIMINARY LIGHTING PLAN SHEET 78-80

DEMOLITION PLAN SHEET 7
 SITE PLAN SHEET 12
 PAVING, GRADING & DRAINAGE PLAN SHEET 21
 SIGNAGE & STRIPING PLAN SHEET 71
 INTERSECTION SIGHT DISTANCE PLAN SHEET 74
 PRELIMINARY LIGHTING PLAN SHEET 81-83

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	ADDED CALLOUTS	11/4/21	MSC/98616		

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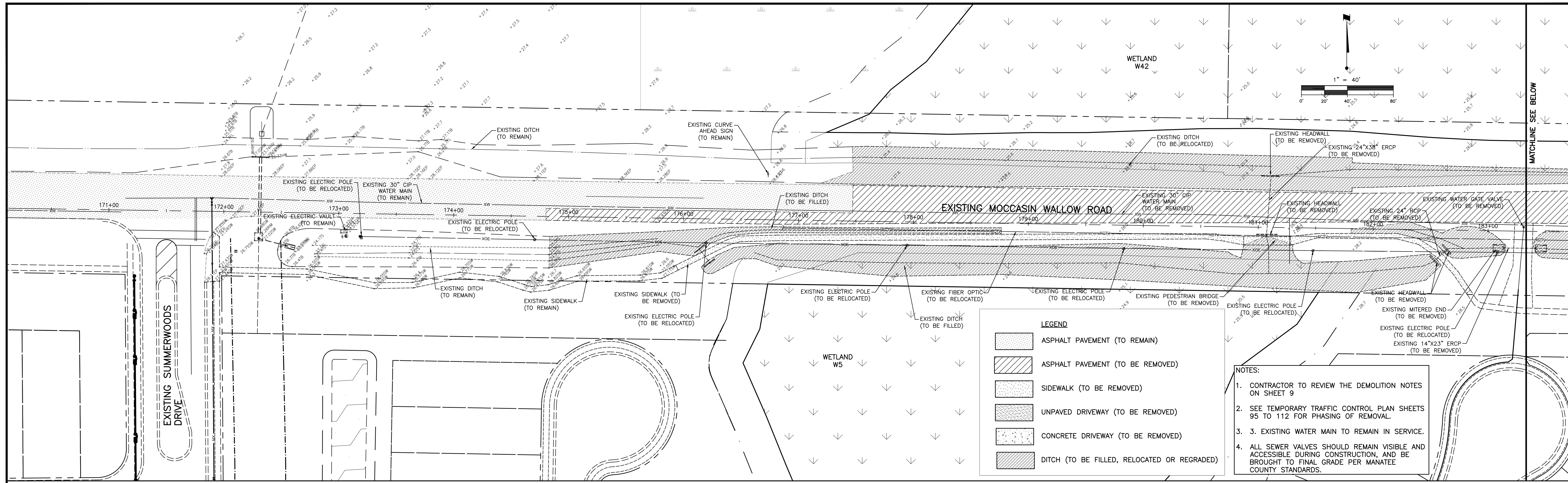
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE: 1/8" = 10'

TITLE: MASTER SITE PLAN AND KEY SHEET

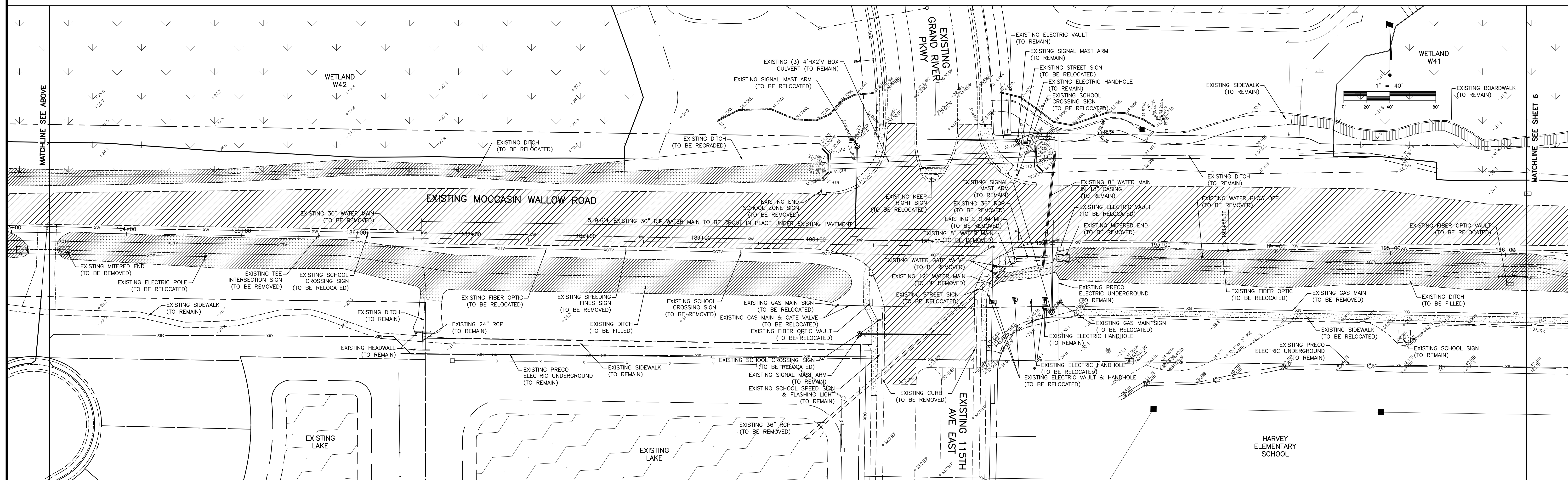
ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-105SP
 SHEET NUMBER: 4 OF 112



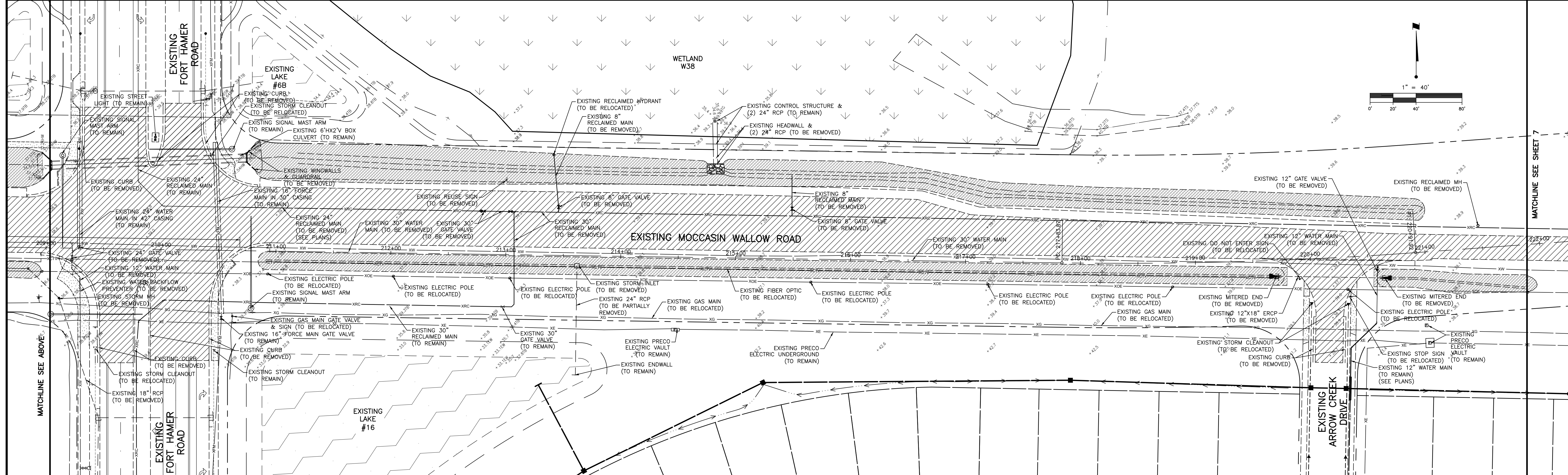
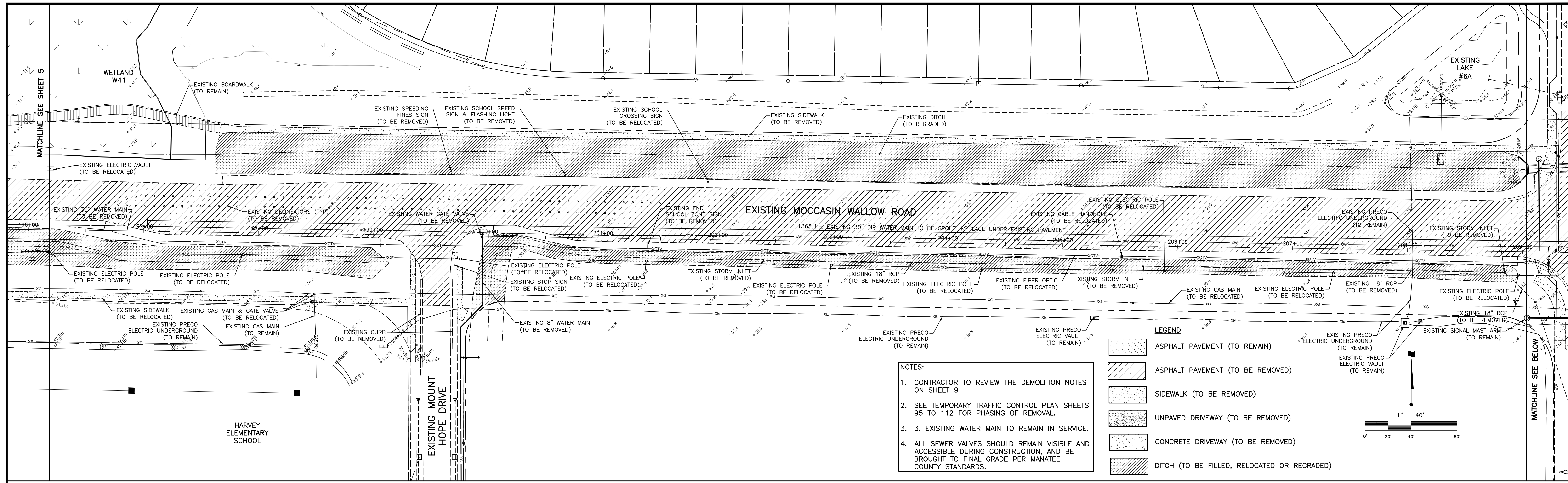
LEGEND

- ASPHALT PAVEMENT (TO REMAIN)
- ASPHALT PAVEMENT (TO BE REMOVED)
- SIDEWALK (TO BE REMOVED)
- UNPAVED DRIVEWAY (TO BE REMOVED)
- CONCRETE DRIVEWAY (TO BE REMOVED)
- DITCH (TO BE FILLED, RELOCATED OR REGRADED)

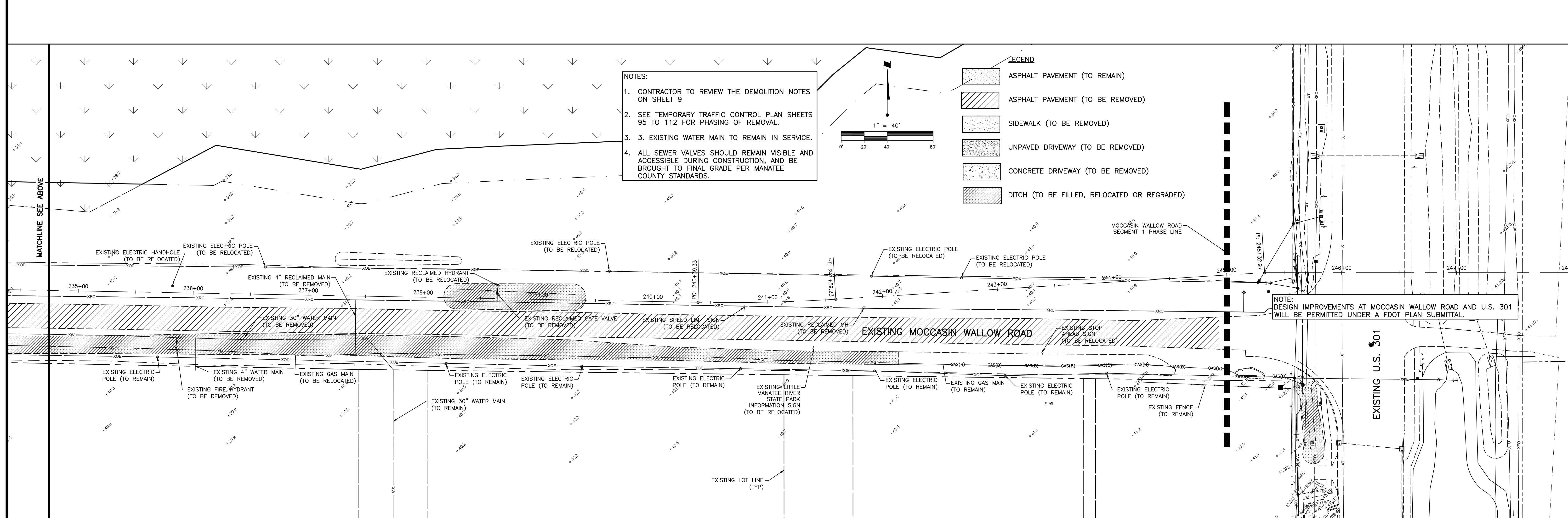
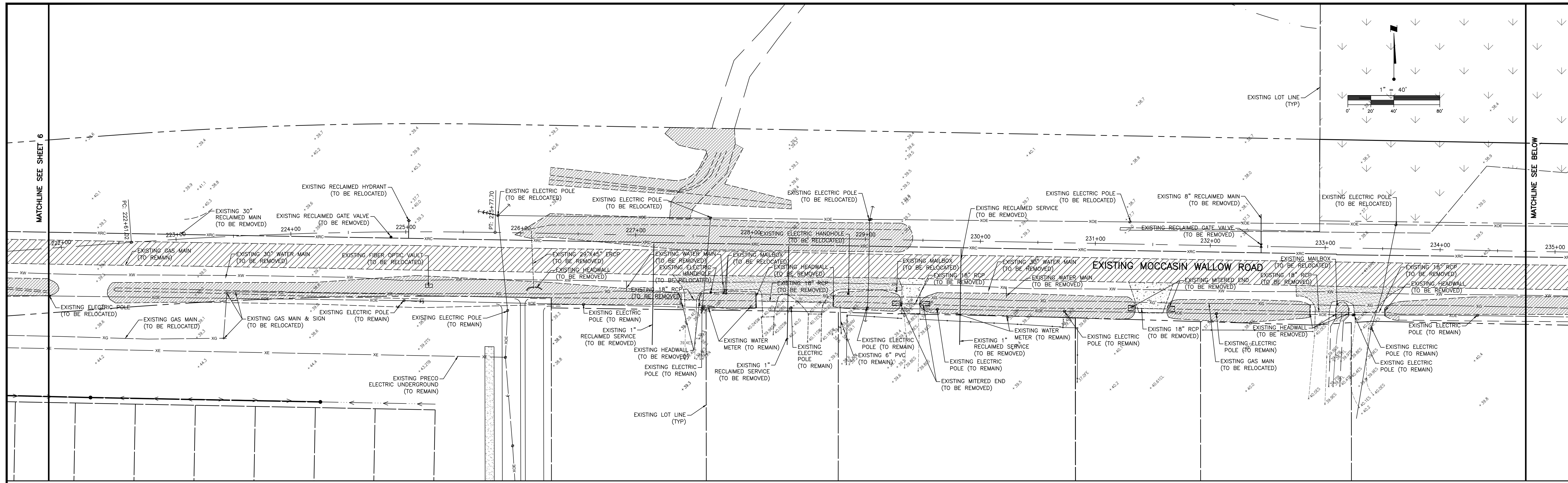
- NOTES:**
1. CONTRACTOR TO REVIEW THE DEMOLITION NOTES ON SHEET 9
 2. SEE TEMPORARY TRAFFIC CONTROL PLAN SHEETS 95 TO 112 FOR PHASING OF REMOVAL.
 3. EXISTING WATER MAIN TO REMAIN IN SERVICE.
 4. ALL SEWER VALVES SHOULD REMAIN VISIBLE AND ACCESSIBLE DURING CONSTRUCTION, AND BE BROUGHT TO FINAL GRADE PER MANATEE COUNTY STANDARDS.



<p>Stantec 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #2013 • www.stantec.com</p>		<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 4' SHEET NUMBER: 5 OF 112</p>	<p>TITLE: DEMOLITION PLAN</p> <p>ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 215615900-01C-101DP</p>																																						
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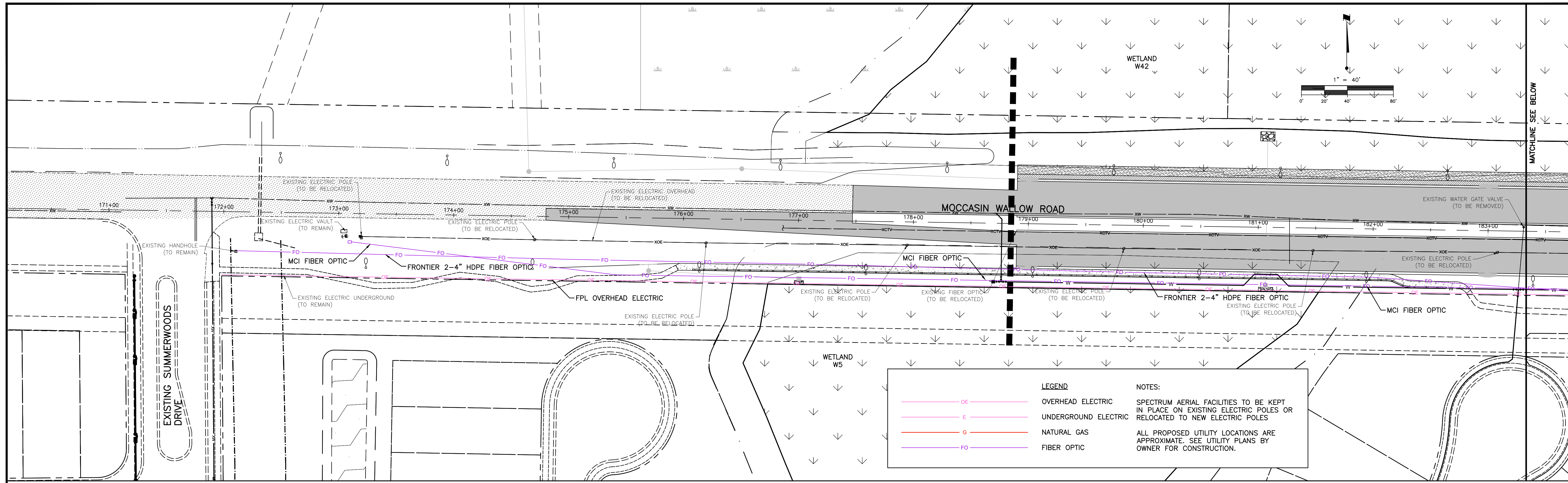
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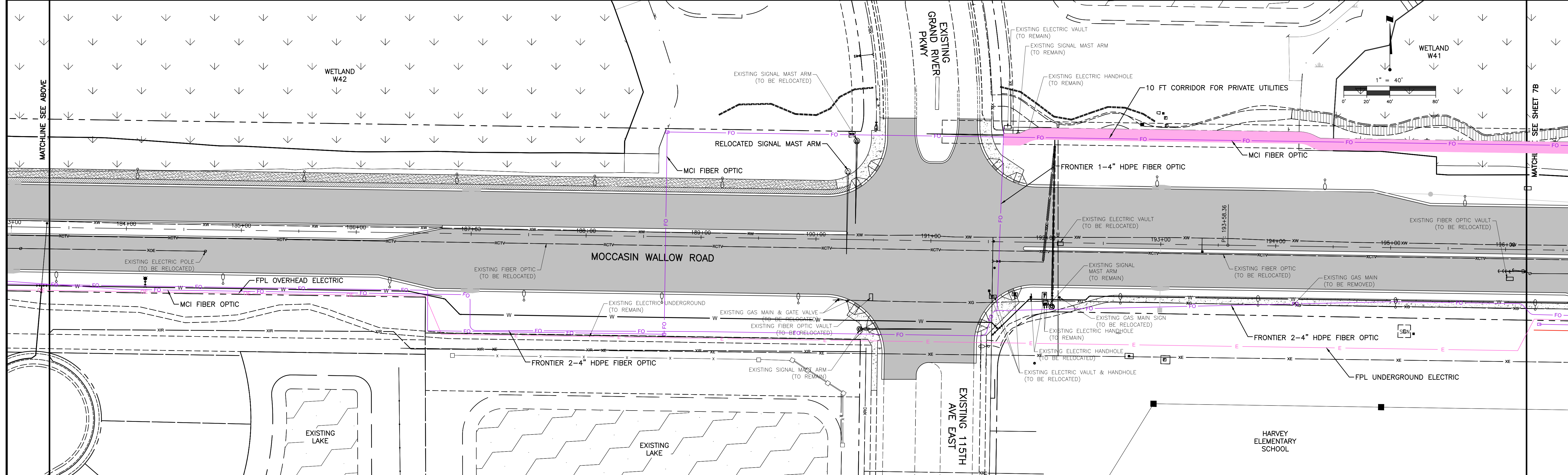
- NOTES:**
1. CONTRACTOR TO REVIEW THE DEMOLITION NOTES ON SHEET 9
 2. SEE TEMPORARY TRAFFIC CONTROL PLAN SHEETS 95 TO 112 FOR PHASING OF REMOVAL.
 3. EXISTING WATER MAIN TO REMAIN IN SERVICE.
 4. ALL SEWER VALVES SHOULD REMAIN VISIBLE AND ACCESSIBLE DURING CONSTRUCTION, AND BE BROUGHT TO FINAL GRADE PER MANATEE COUNTY STANDARDS.

- LEGEND**
- ASPHALT PAVEMENT (TO REMAIN)
 - ASPHALT PAVEMENT (TO BE REMOVED)
 - SIDEWALK (TO BE REMOVED)
 - UNPAVED DRIVEWAY (TO BE REMOVED)
 - CONCRETE DRIVEWAY (TO BE REMOVED)
 - DITCH (TO BE FILLED, RELOCATED OR REGRADED)

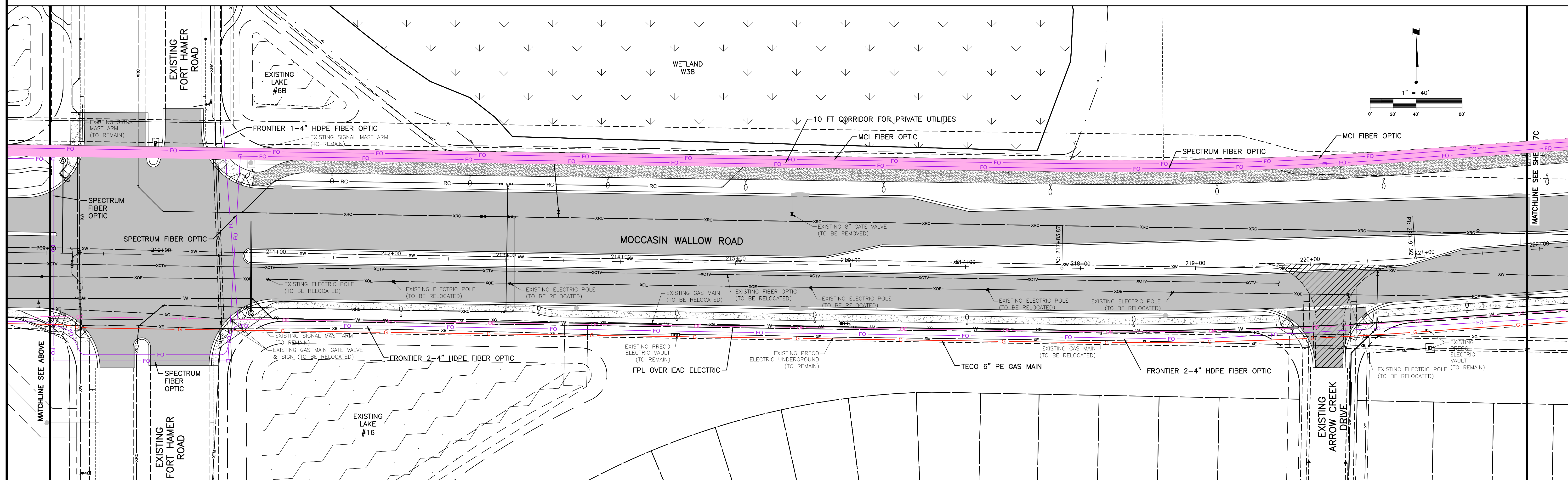
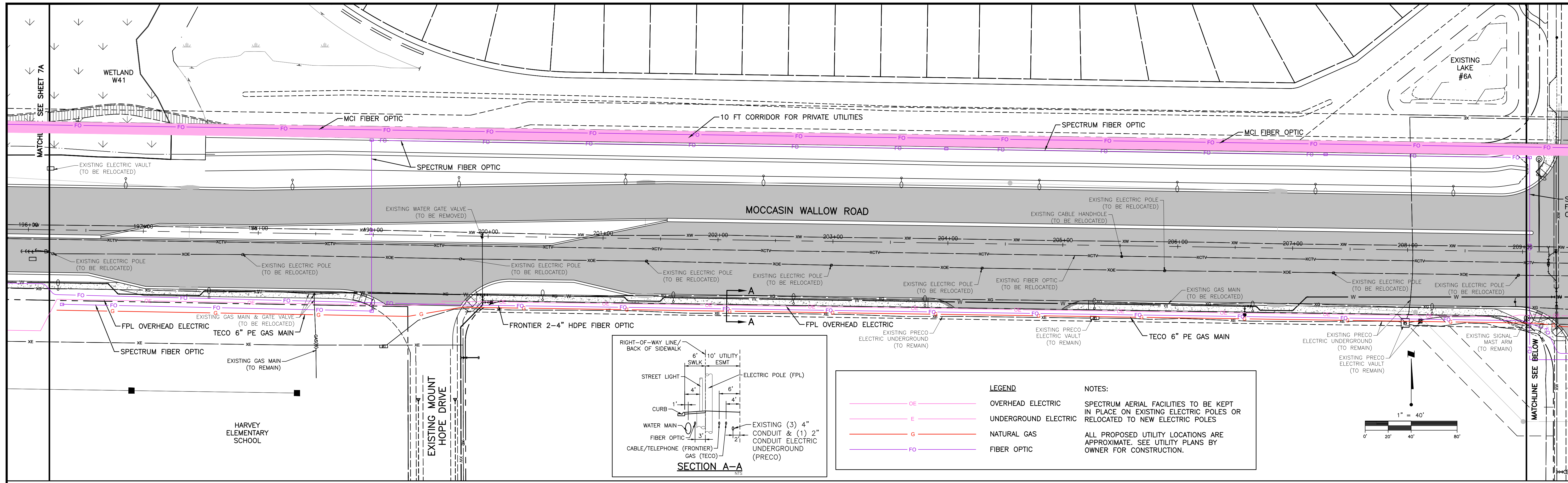
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LEGEND		NOTES:
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	E UNDERGROUND ELECTRIC	
	G NATURAL GAS	
	FO FIBER OPTIC	



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E REVISED MAST ARM, ADDED MCI & SPECTRUM D ADDED STREET LIGHTS.	6/1/22 MSC/98616 4/15/22 MSC/98616	ACTIVITY: DESIGNED BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-102DP SHEET NUMBER: 7A OF 112	



E D Δ REVISION	ADDED MCI & SPECTRUM ADDED STREET LIGHTS & SECTION A-A	DATE 6/1/22 4/15/22	DRAWN BY / EMP. NO. MSC/98616 MSC/98616	CHECKED BY CONTRACT ADMIN. BY WM APPROVED BY	ACTIVITY DESIGNED BY DRAWN BY CHECKED BY CONTRACT ADMIN. BY WM APPROVED BY	INITIALS/EMP. NO. DATE 10/2020 10/2020	<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 20' CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	TITLE: UTILITY ADJUSTMENT PLAN INDEX NUMBER: 21565900-01C-102DP SHEET NUMBER: 7B OF 112	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602
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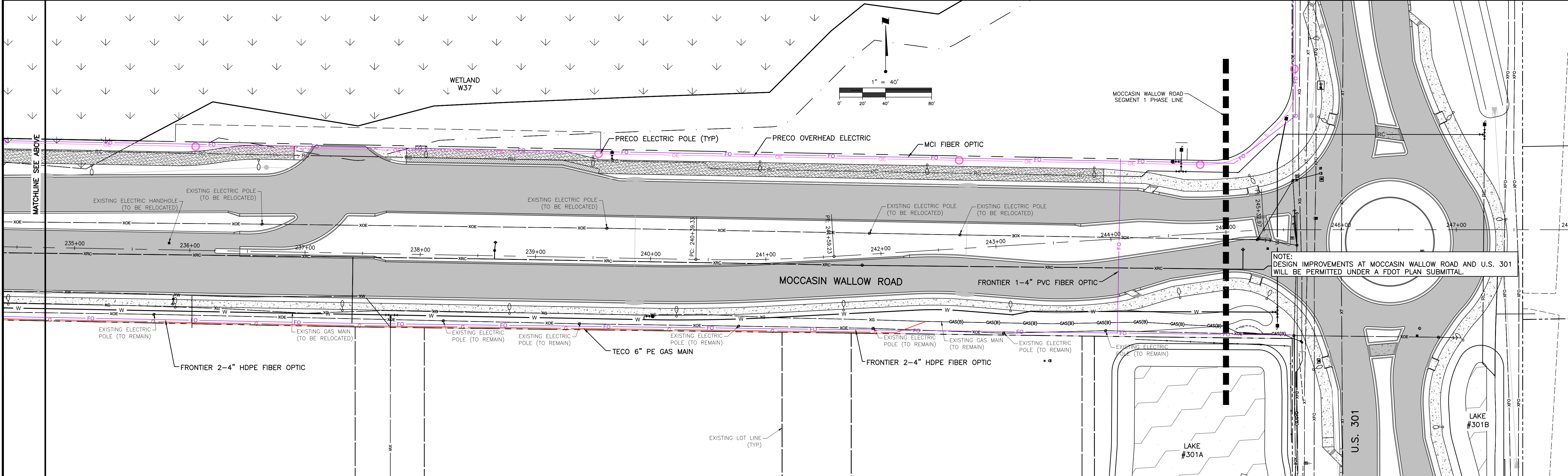
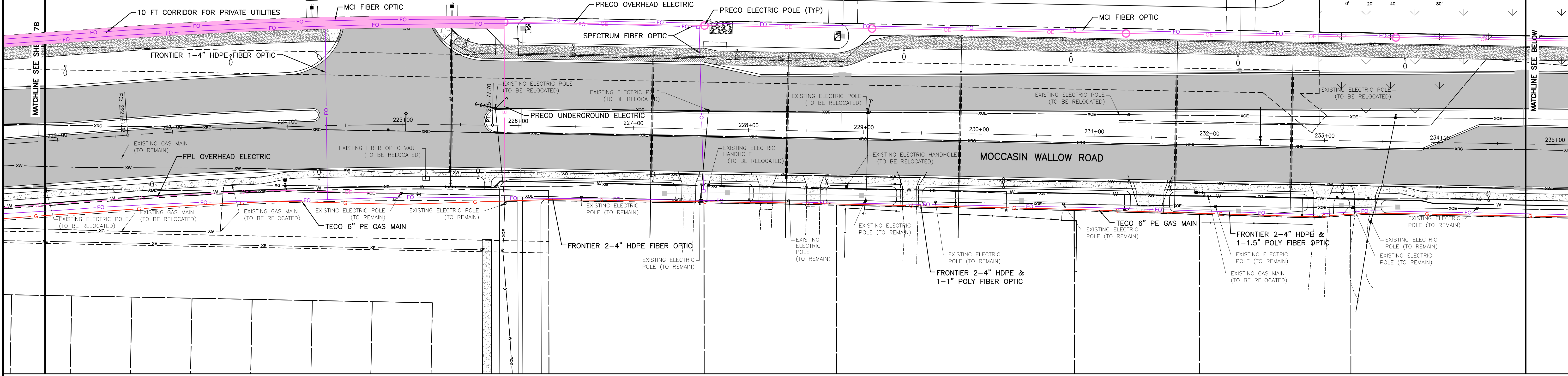
LEGEND

- OE — OVERHEAD ELECTRIC
- E — UNDERGROUND ELECTRIC
- G — NATURAL GAS
- FO — FIBER OPTIC

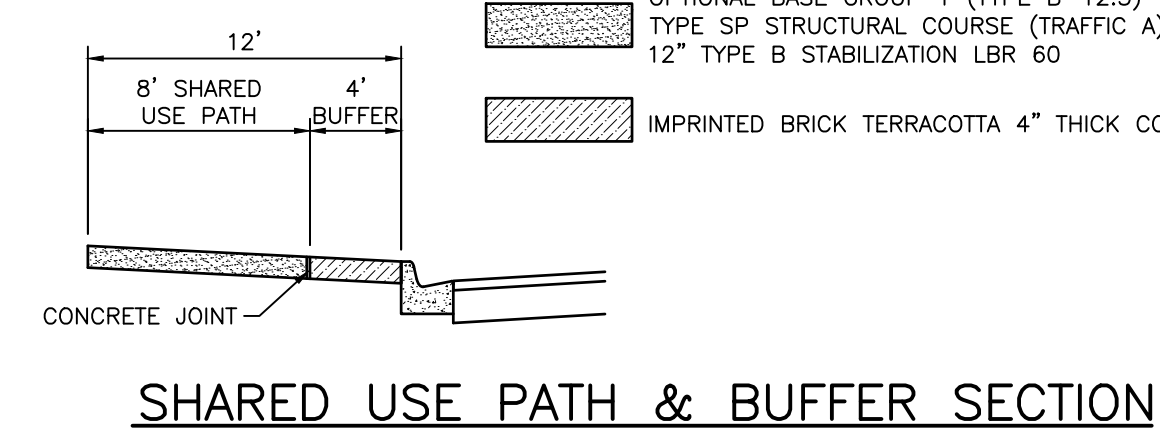
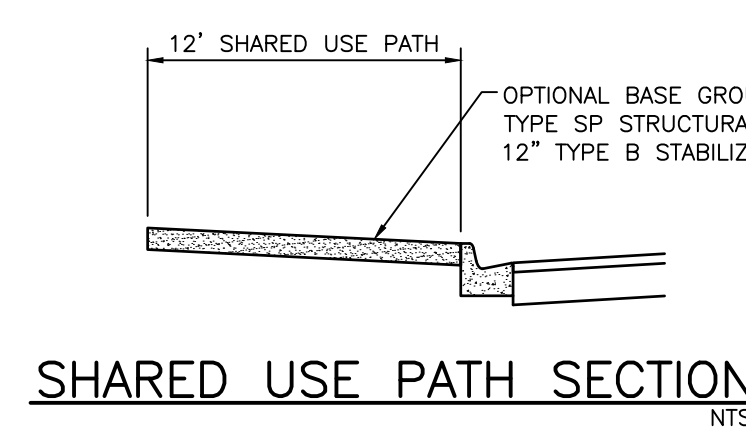
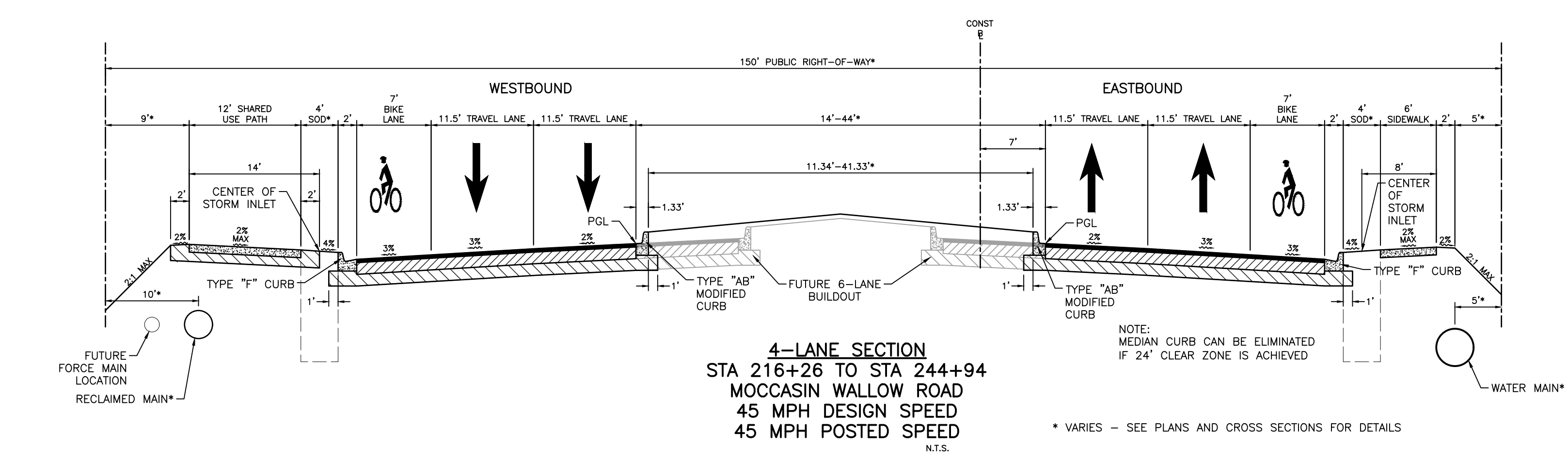
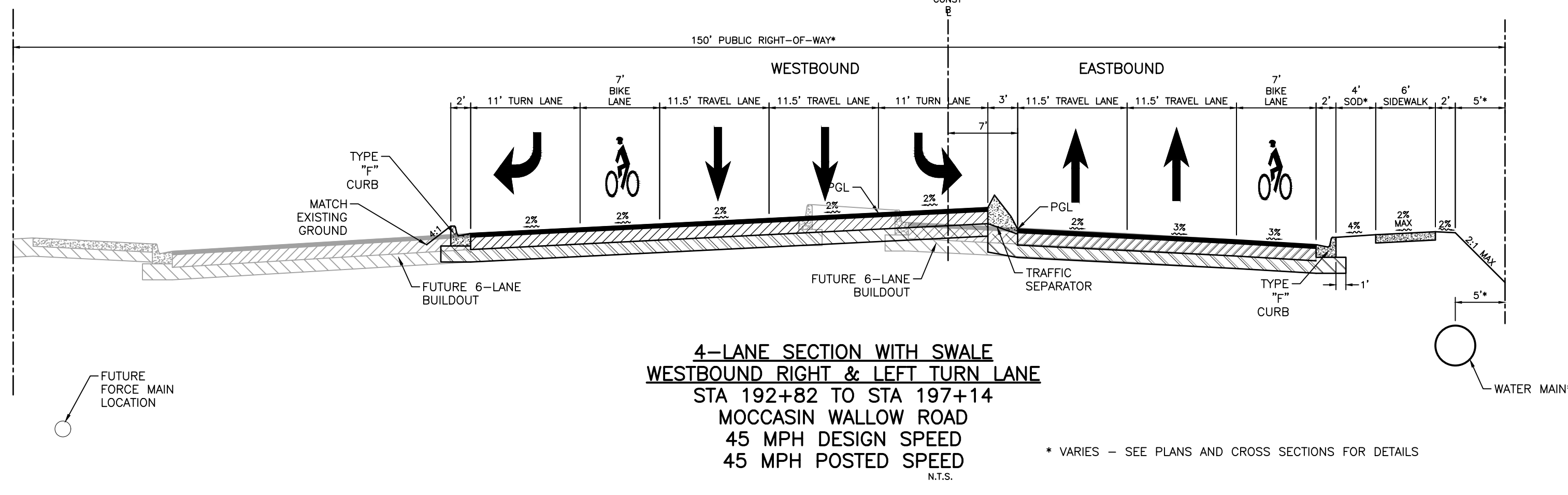
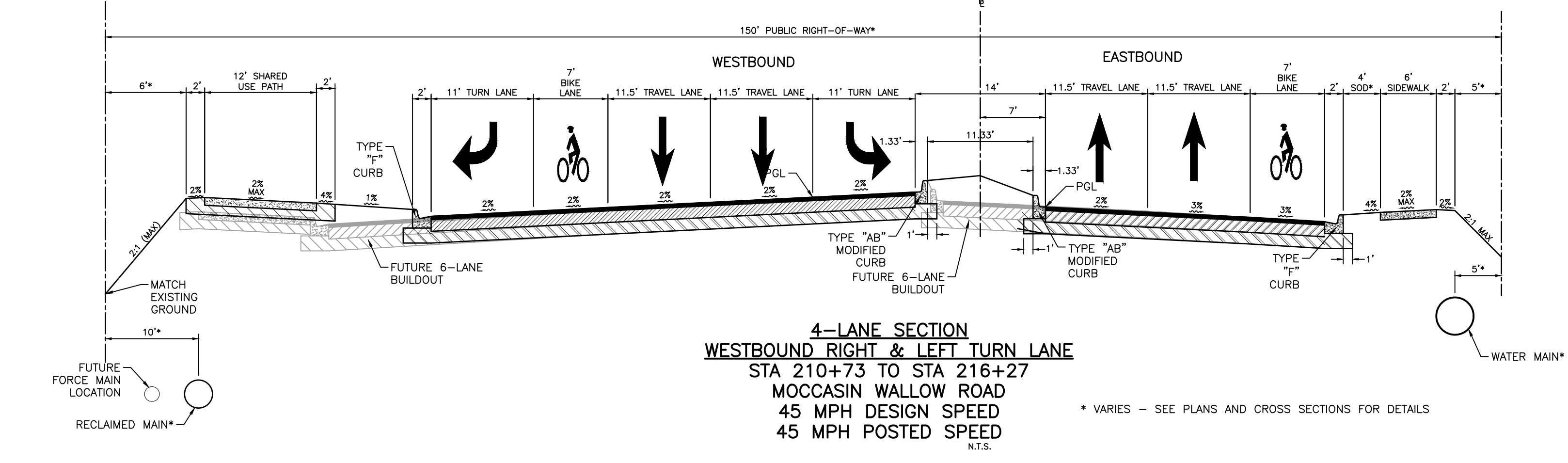
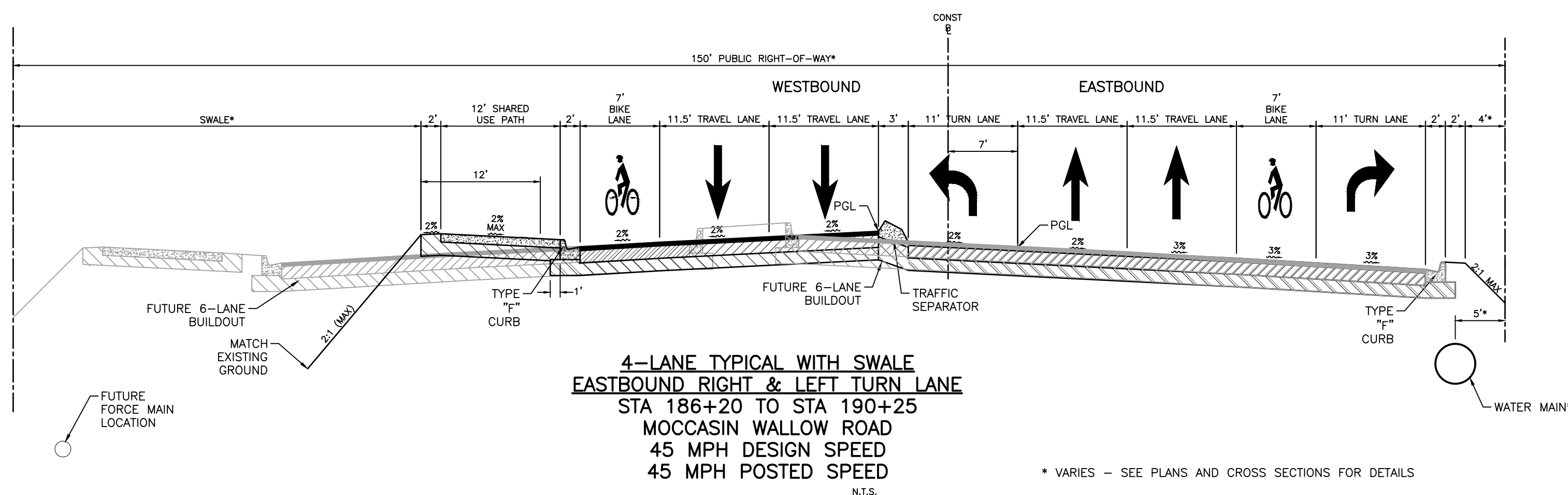
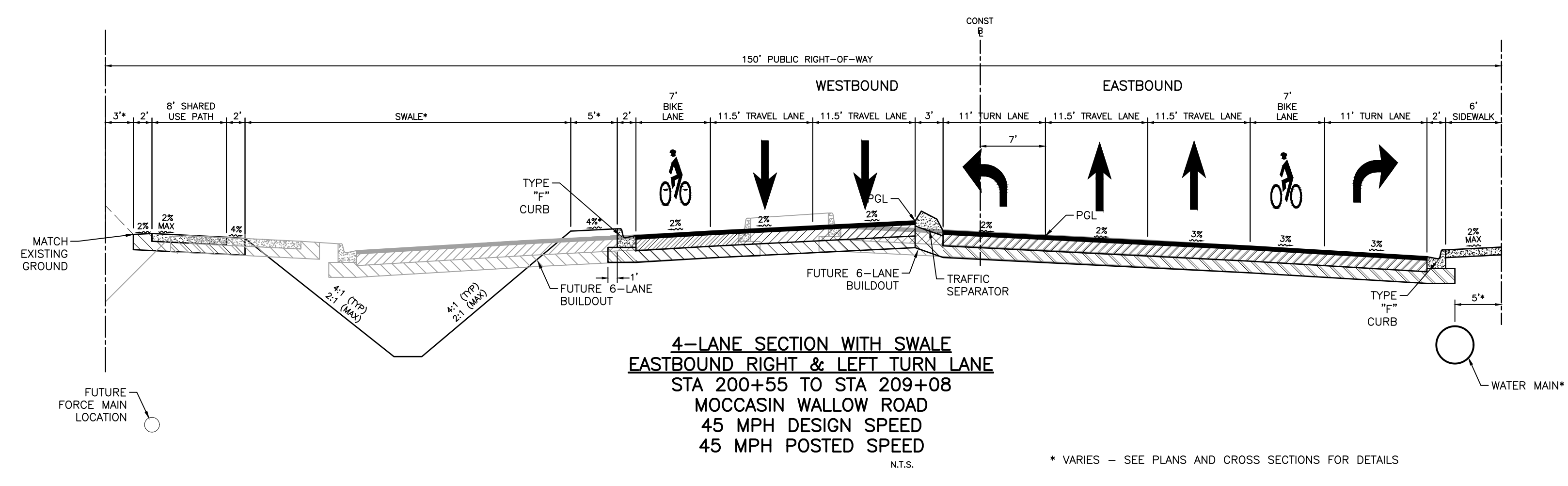
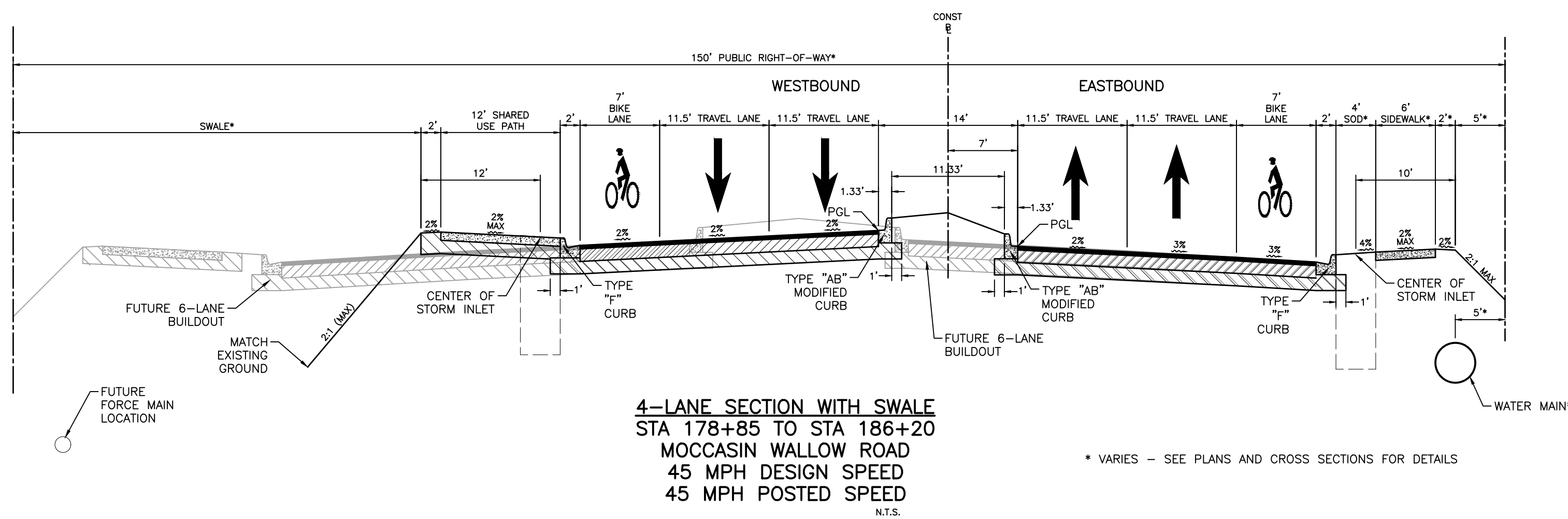
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- ASPHALTIC CONCRETE SURFACE COURSE SHALL BE LAYED IN TWO LIFTS. THE FIRST LIFT SHALL BE 3" TYPE SP (TRAFFIC C). THE SECOND LIFT SHALL BE 1.5" FC-12.5 (TRAFFIC C).
- BASE COURSE SHALL CONSIST OF:
10" ROAD BASE (FDOT GROUP 9).
- STABILIZED SUB-BASE SHALL BE:
12" STABILIZED SUBGRADE SHELL MARL BLENDED WITH SANDY SUB-GRADE MINIMUM LBR 60, 98% T180 AASHTO.

MOCCASIN WALLOW PAVING SECTION

(PER MANATEE COUNTY DETAIL 401.1 & 401.2)

CEMENT TREATED BASE CONSTRUCTION:
CEMENT TREATED BASE SHALL NOT BE ALLOWED ON MANATEE COUNTY THOROUGHFARES. THE BASE MATERIAL SHALL BE FROM A FDOT'S APPROVED VENDOR AND SHALL BE APPROVED BY MANATEE COUNTY.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	REVISED SECTIONS, ADDED SHARED USE SECTION.	11/5/21	MSC/98616		

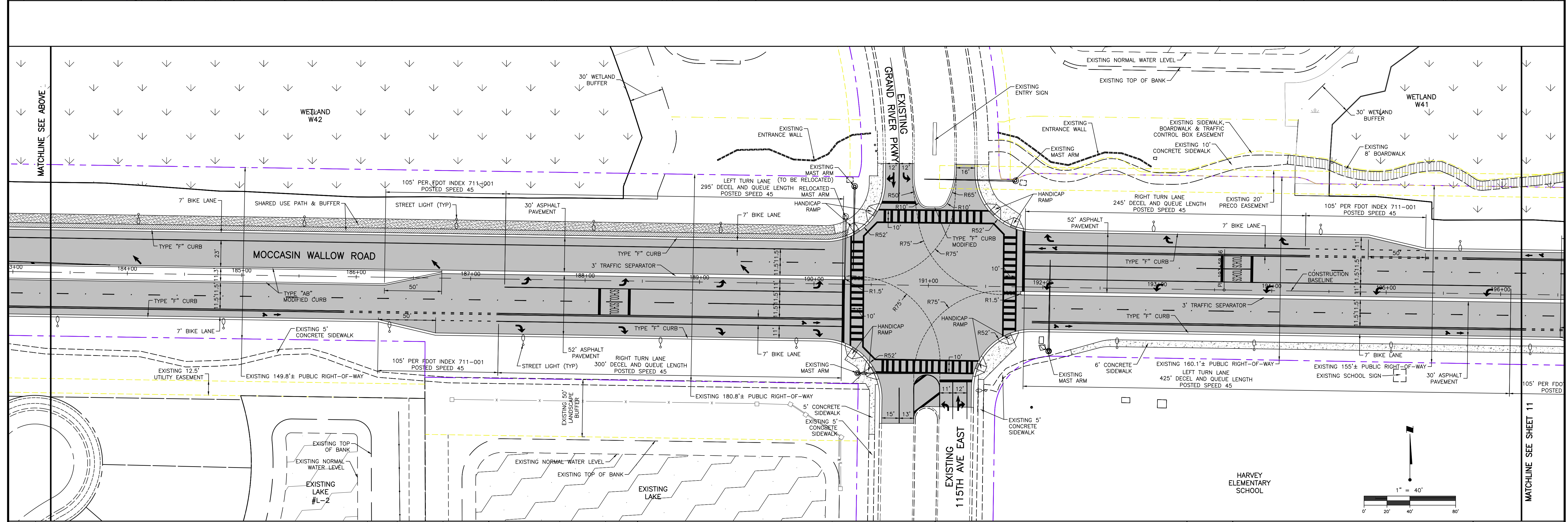
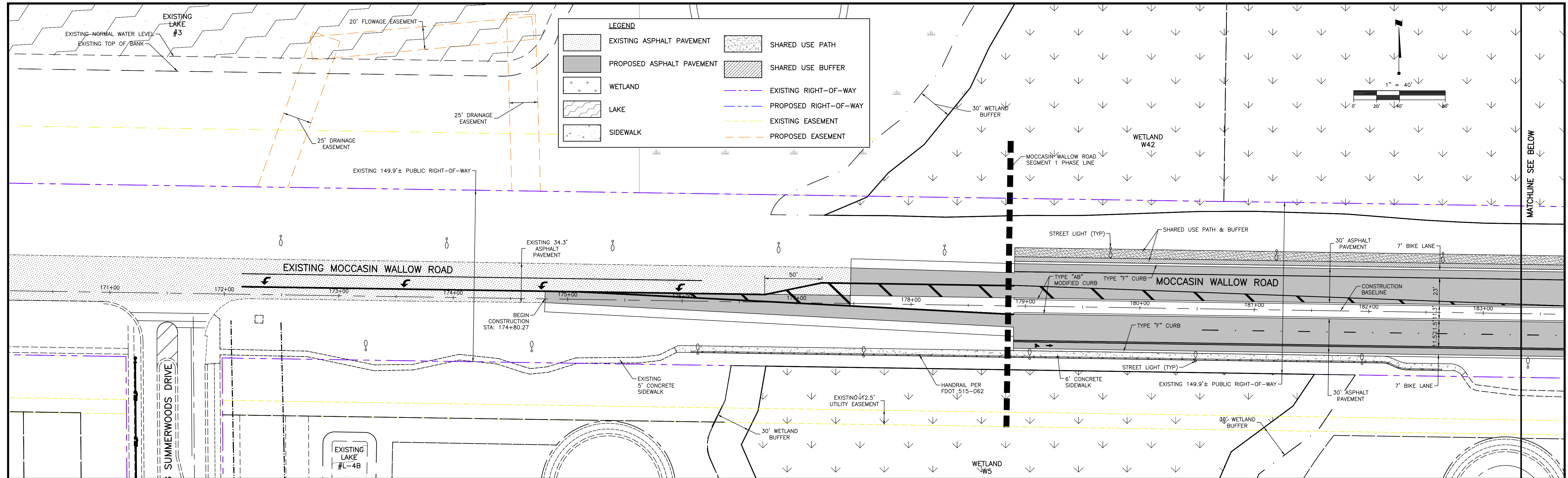
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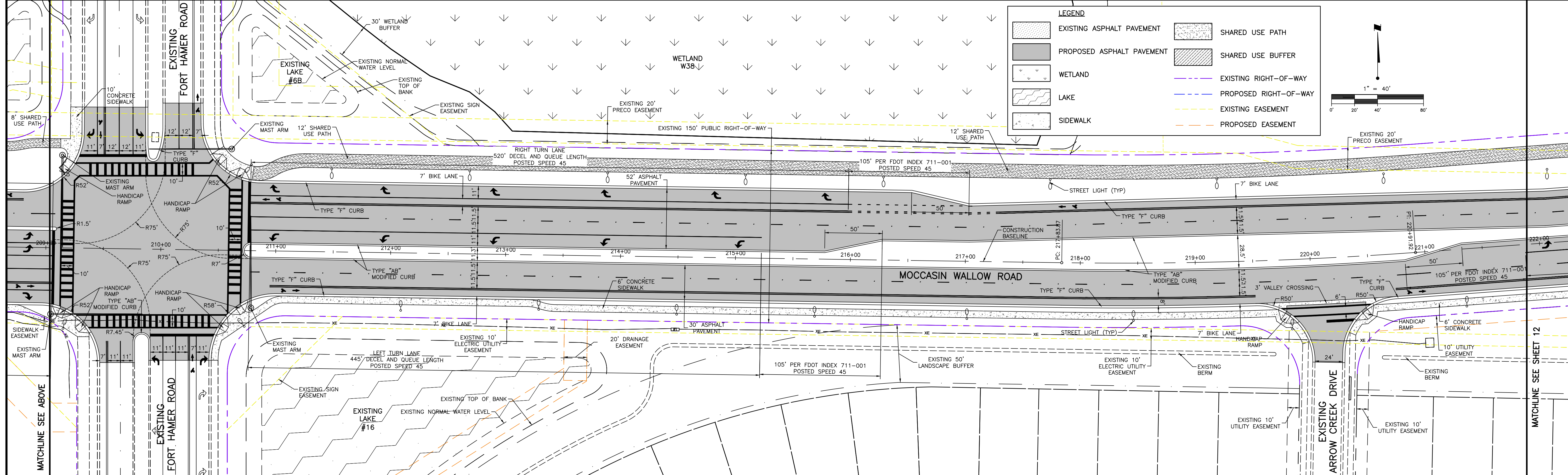
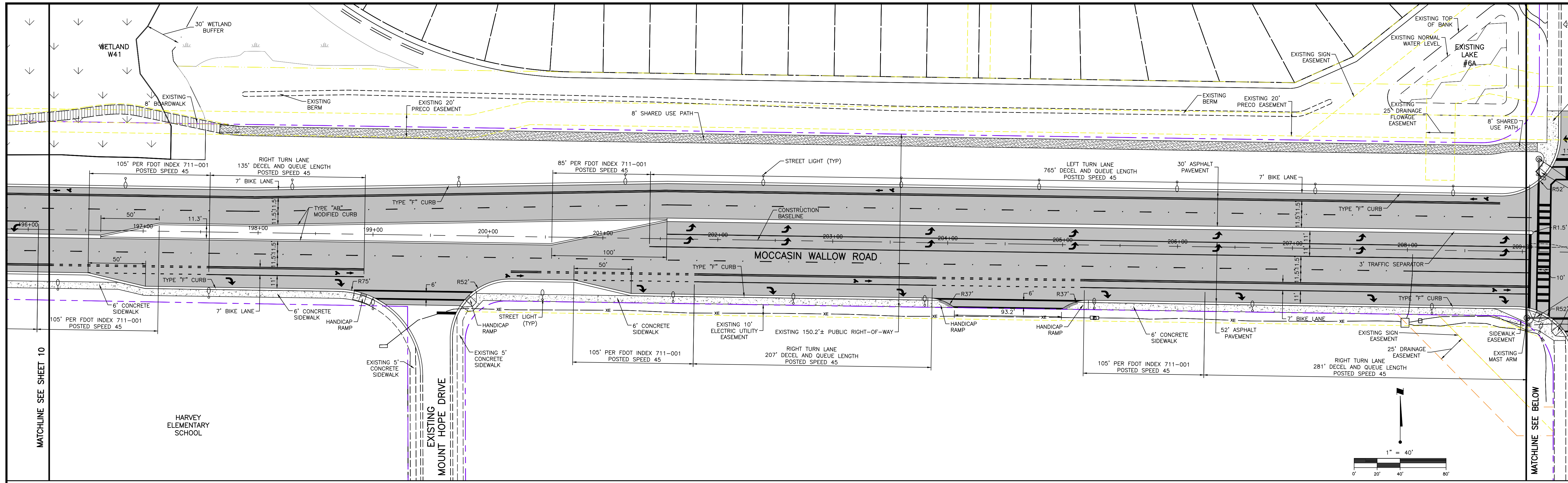
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
HORIZONTAL SCALE:
VERTICAL SCALE:
SHEET NUMBER: 8 OF 112

TITLE: TYPICAL ROAD SECTIONS
PROJECT NUMBER: 215615900
SHEET NUMBER: 8 OF 112

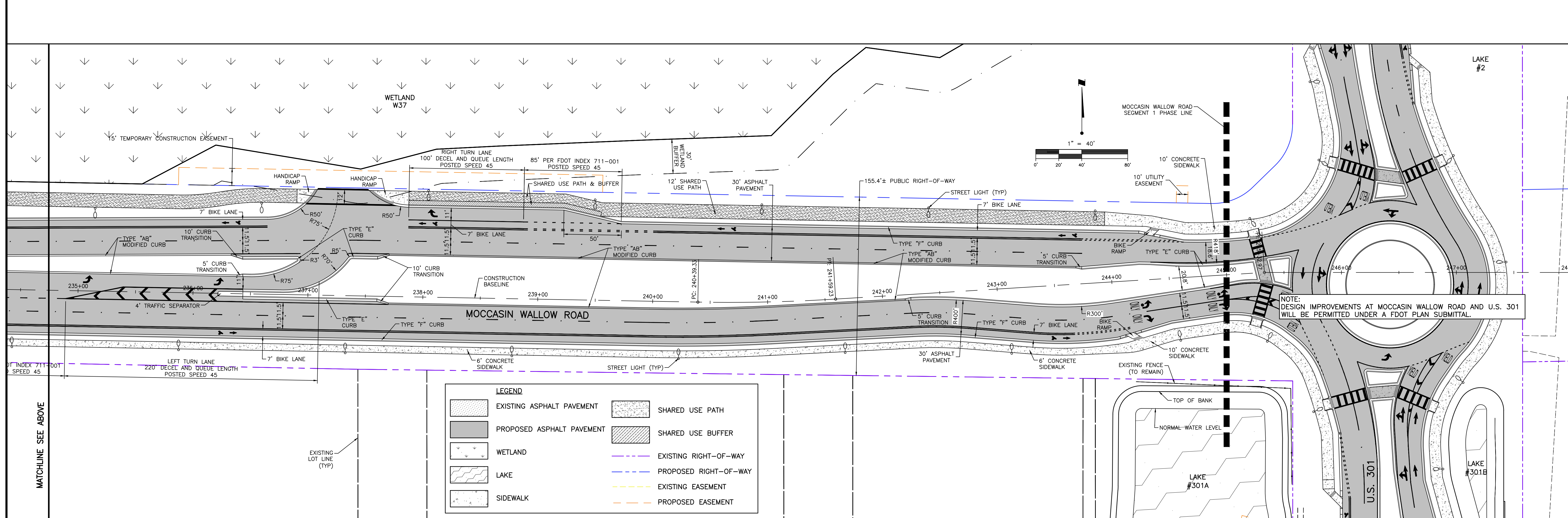
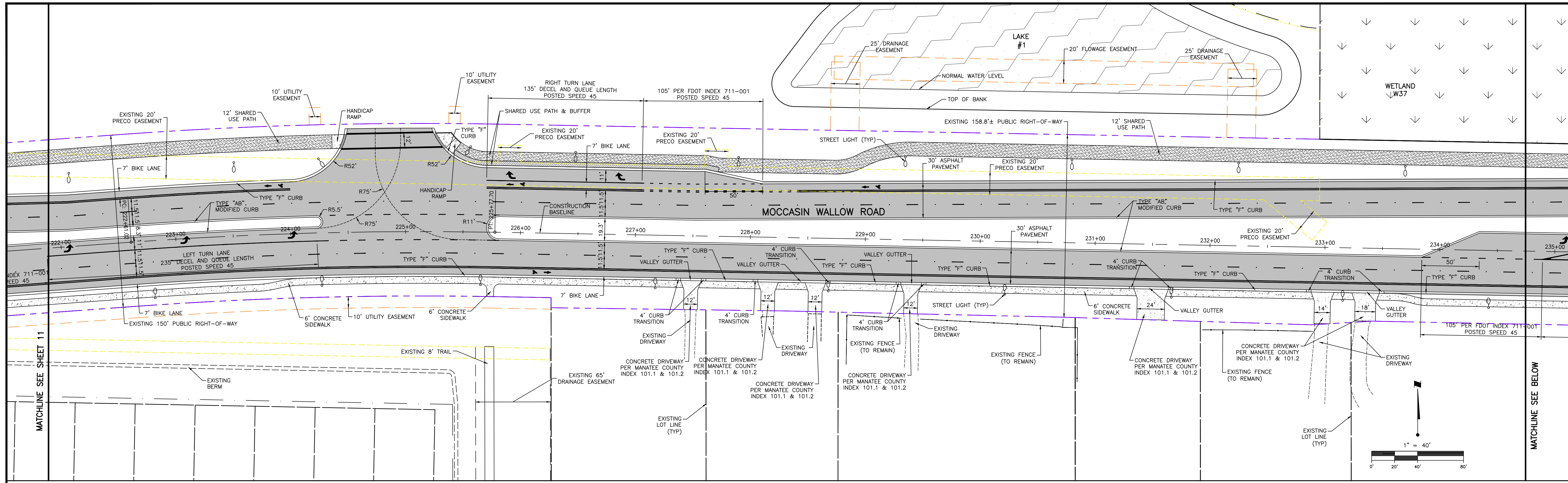


Stantec 4900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-507-6900 • Fax 941-507-6910 Certificate of Authorization #27013 • www.stantec.com		CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: SEC: 19 20 CROSS REFERENCE FILE NO.: 335 19E PROJECT NUMBER: 215615900 SHEET NUMBER: 10 OF 112	TITLE: SITE PLAN ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58802 INDEX NUMBER: 21565900-01C-111SP
C Δ REV. NO. REVISION	11/5/21 MSC/98616	ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	The Contractor shall verify and be responsible for all dimensions. DO NOT scale this drawing; any errors or omissions shall be reported to Stantec without delay. The Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.	



LEGEND	
	EXISTING ASPHALT PAVEMENT
	PROPOSED ASPHALT PAVEMENT
	WETLAND
	LAKE
	SIDEWALK
	SHARED USE PATH
	SHARED USE BUFFER
	EXISTING RIGHT-OF-WAY
	PROPOSED RIGHT-OF-WAY
	EXISTING EASEMENT
	PROPOSED EASEMENT

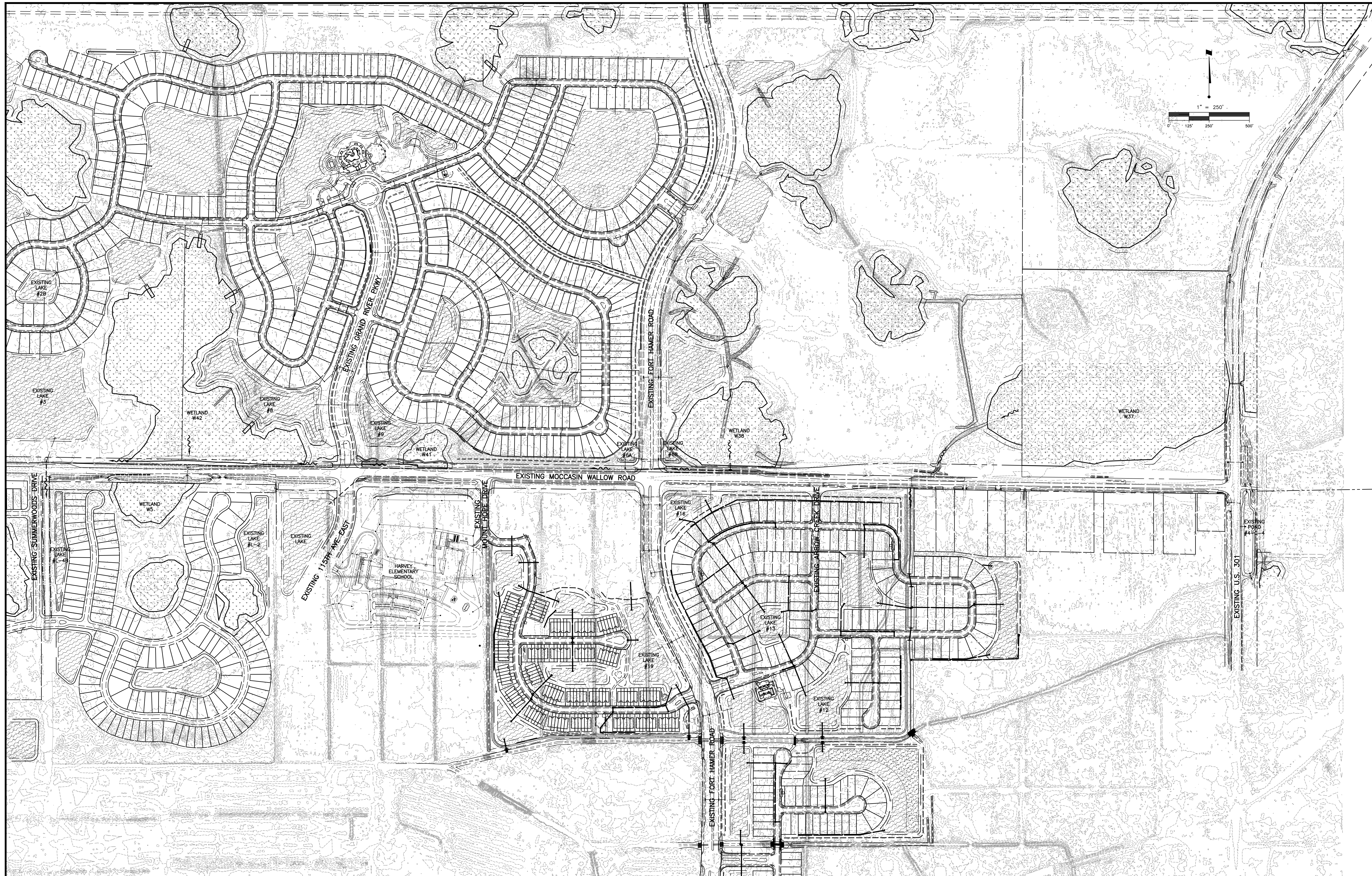
MATCHLINE SEE SHEET 10 HARVEY ELEMENTARY SCHOOL MOUNT HOPE DRIVE MATCHLINE SEE BELOW	MATCHLINE SEE ABOVE FORT HAMER ROAD EXISTING LAKE #16 EXISTING LAKE #6B WETLAND W38 EXISTING LAKE #6A MATCHLINE SEE SHEET 12	1" = 40' 0' 20' 40' 80'	Stantec 4900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: SEC: 19 20 19E CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	TITLE: SITE PLAN ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-1115P SHEET NUMBER: 11 OF 112
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LEGEND

	EXISTING ASPHALT PAVEMENT		SHARED USE PATH
	PROPOSED ASPHALT PAVEMENT		SHARED USE BUFFER
	WETLAND		EXISTING RIGHT-OF-WAY
	LAKE		PROPOSED RIGHT-OF-WAY
	SIDEWALK		EXISTING EASEMENT
			PROPOSED EASEMENT

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ACTIVITY: ADDED FLOW ESMT, RIGHT TURN LANE. DESIGNED BY: [Redacted] DRAWN BY: [Redacted] CHECKED BY: [Redacted] CONTRACT ADMIN. BY: [Redacted] WM APPROVED BY: [Redacted]	INITIALS/EMP. NO. DATE 10/2020 10/2020	DATE: 11/5/21 MSC/98616	PROJECT NUMBER: 215615900-01C-1115P SHEET NUMBER: 12 OF 112	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 215615900-01C-1115P



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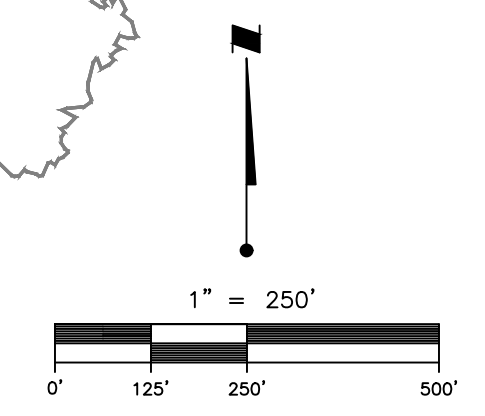
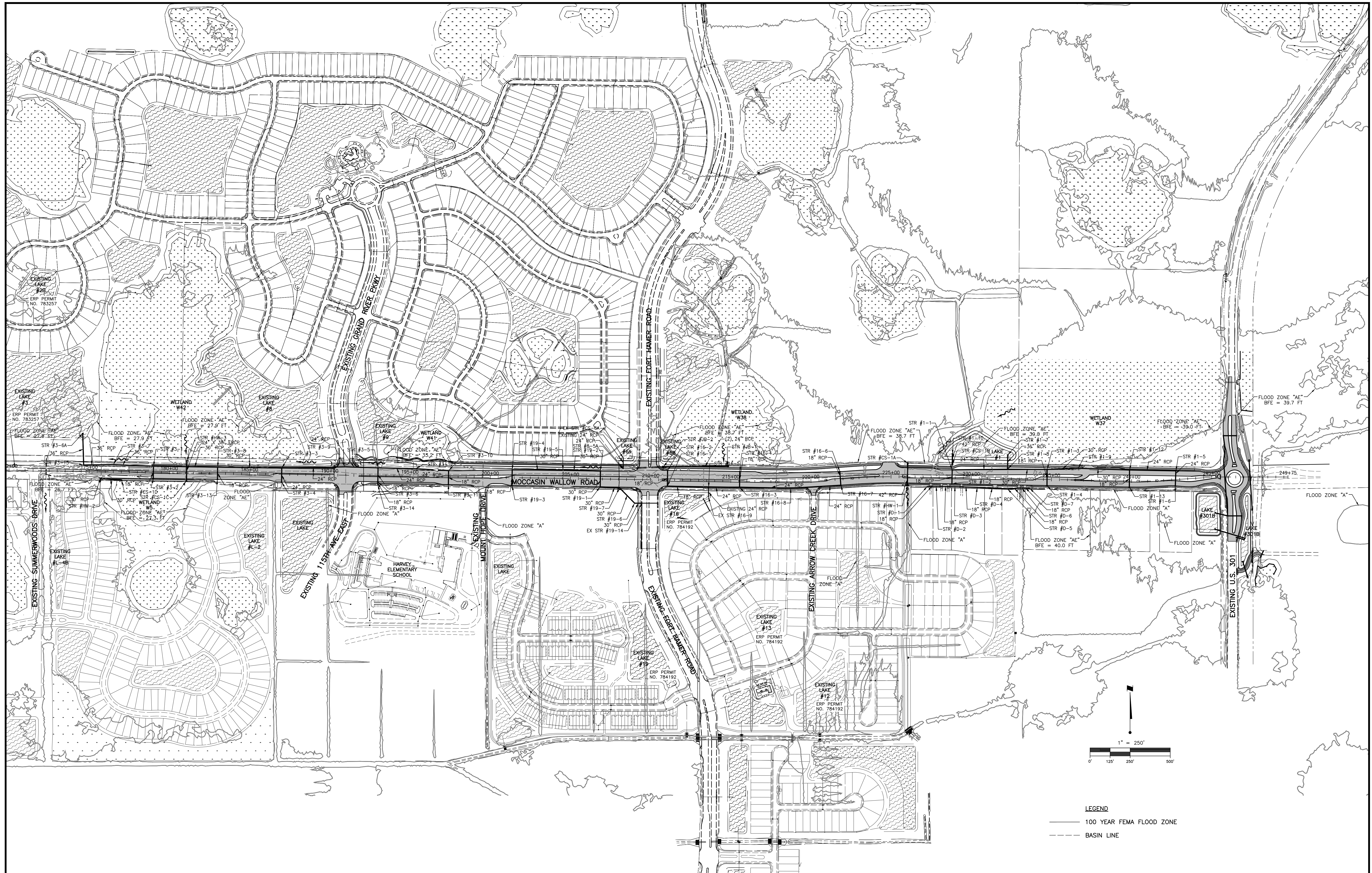
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE: 1" = 250'

TITLE: EXISTING DRAINAGE MAP
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-130SD
 SHEET NUMBER: 14 OF 112



LEGEND
 — 100 YEAR FEMA FLOOD ZONE
 - - - BASIN LINE

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	ADDED STR 1-12 & 1-13	11/5/21	MSC/98616		

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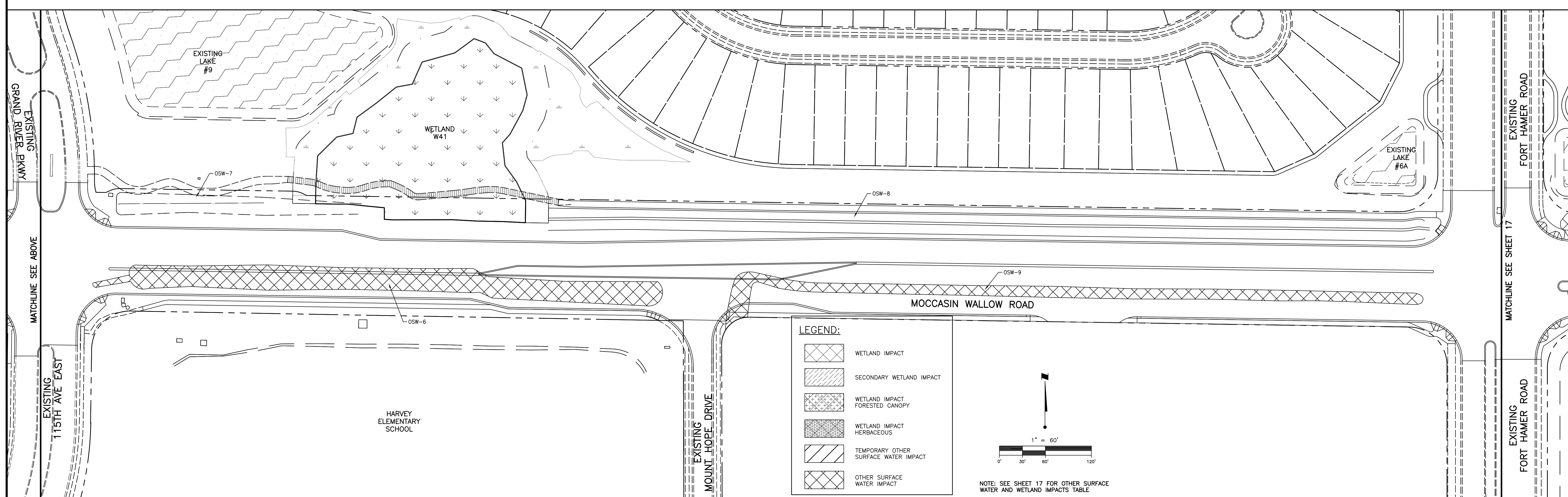
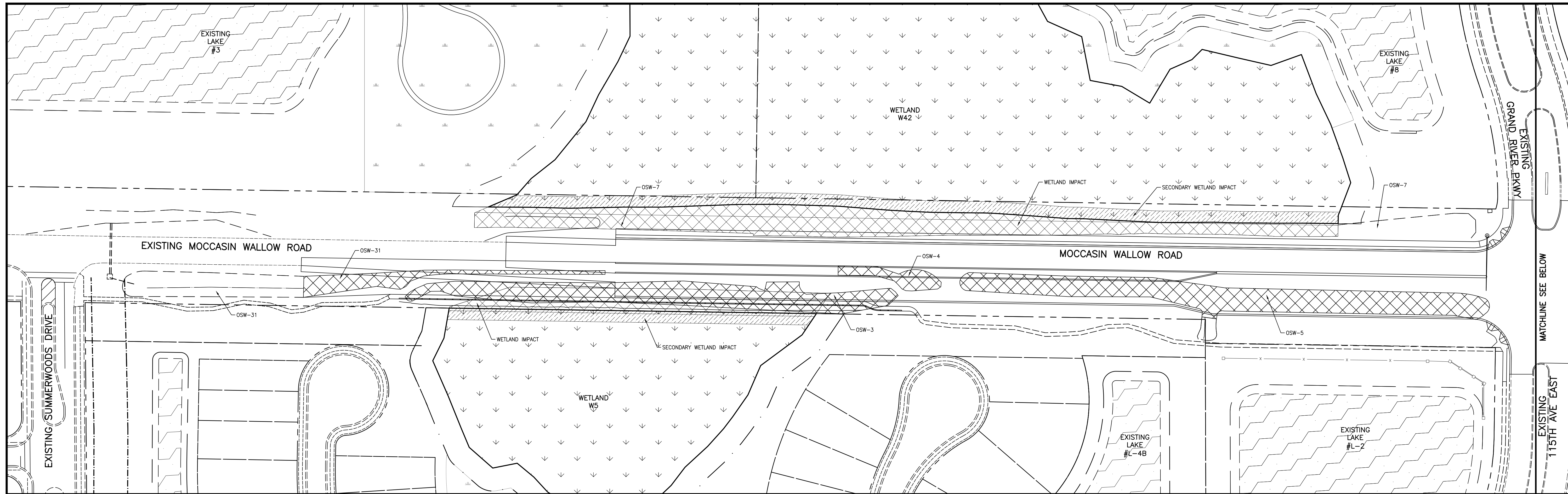
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE:

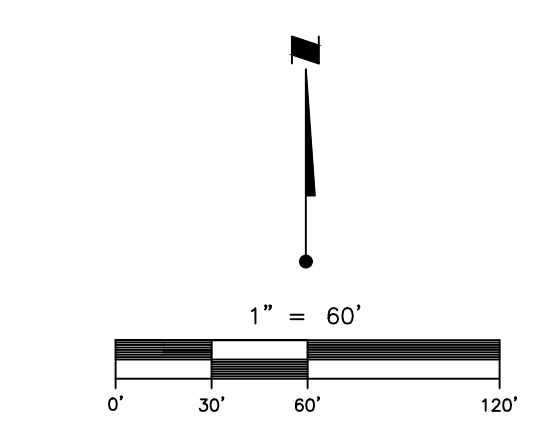
TITLE: PROPOSED DRAINAGE MAP
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 15 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 21565900-01C-1325D



LEGEND:

- WETLAND IMPACT
- SECONDARY WETLAND IMPACT
- WETLAND IMPACT FORESTED CANOPY
- WETLAND IMPACT HERBACEOUS
- TEMPORARY OTHER SURFACE WATER IMPACT
- OTHER SURFACE WATER IMPACT



NOTE: SEE SHEET 17 FOR OTHER SURFACE WATER AND WETLAND IMPACTS TABLE

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	REVISED OSW IMPACTS	11/5/21	MSC/98616		

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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 60'
 VERTICAL SCALE: 1" = 10'

TITLE: OTHER SURFACE WATER IMPACT PLAN

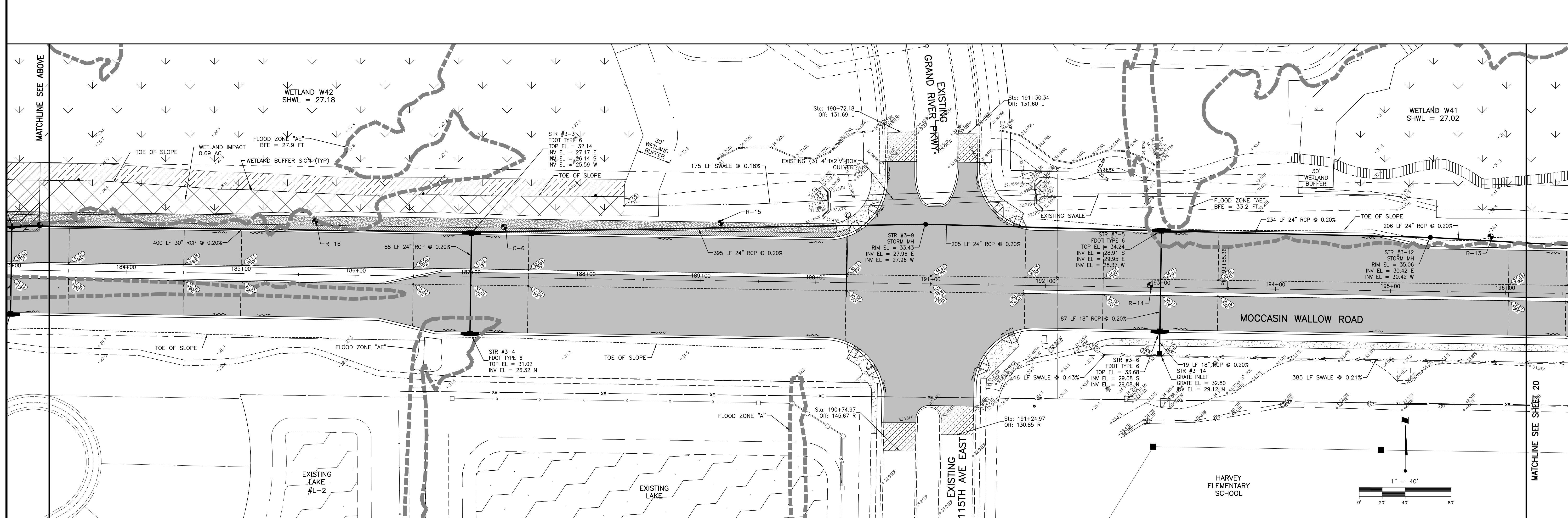
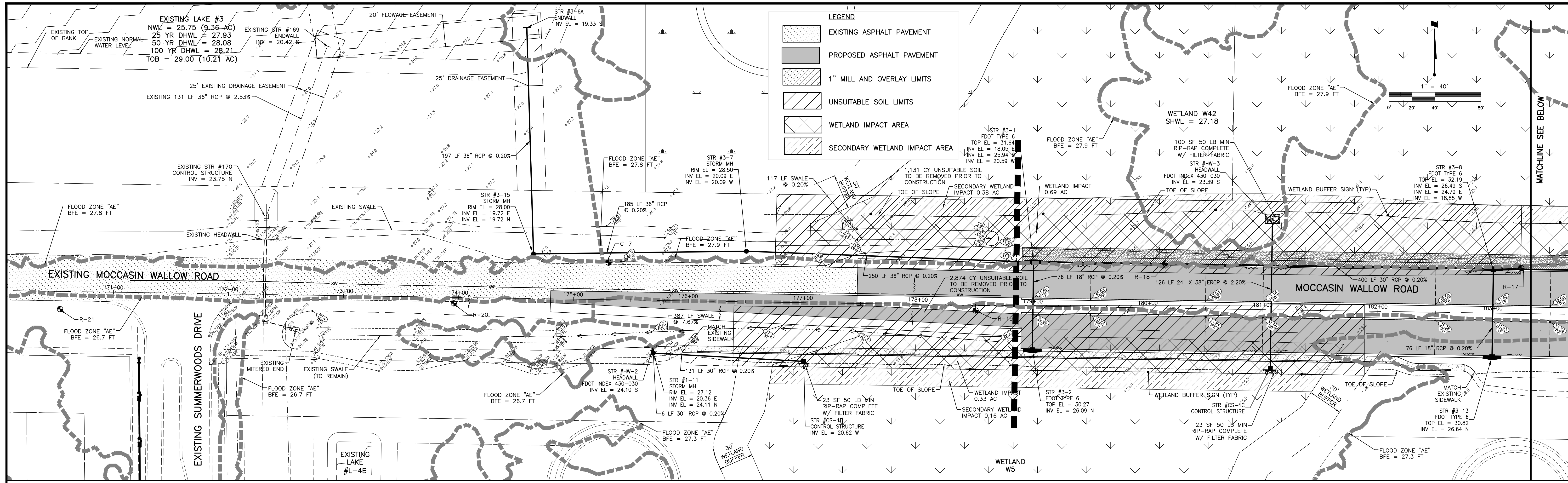
ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-1335D
 SHEET NUMBER: 16 OF 112

CROSS REFERENCE FILE NO.:
 PROJECT NUMBER: 215615900

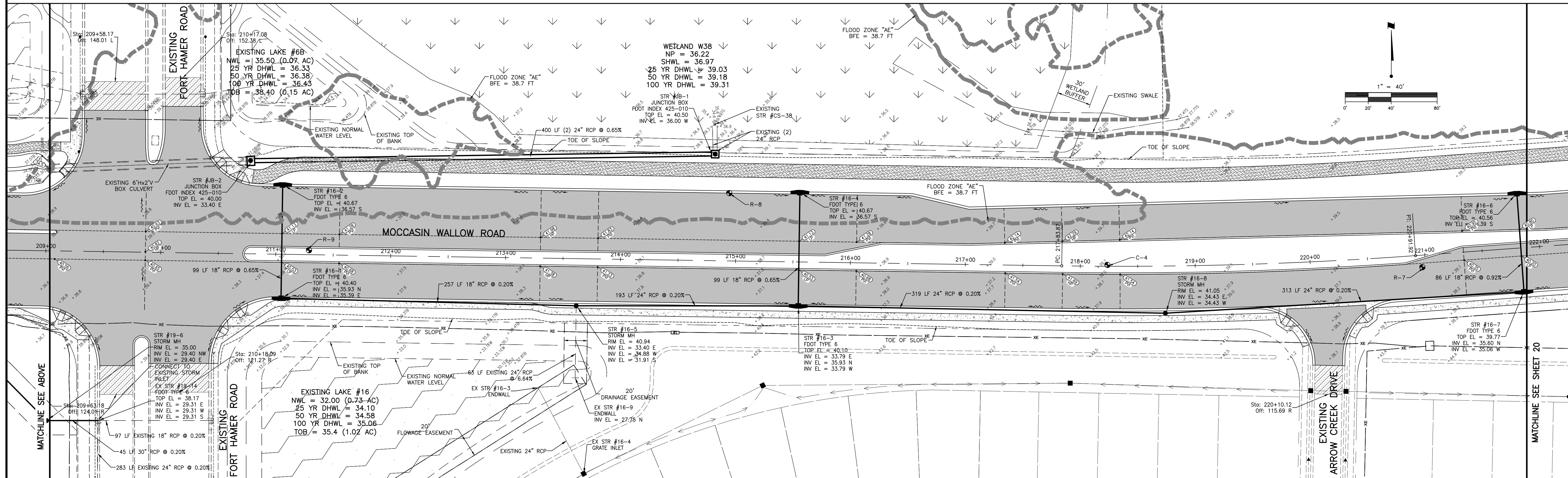
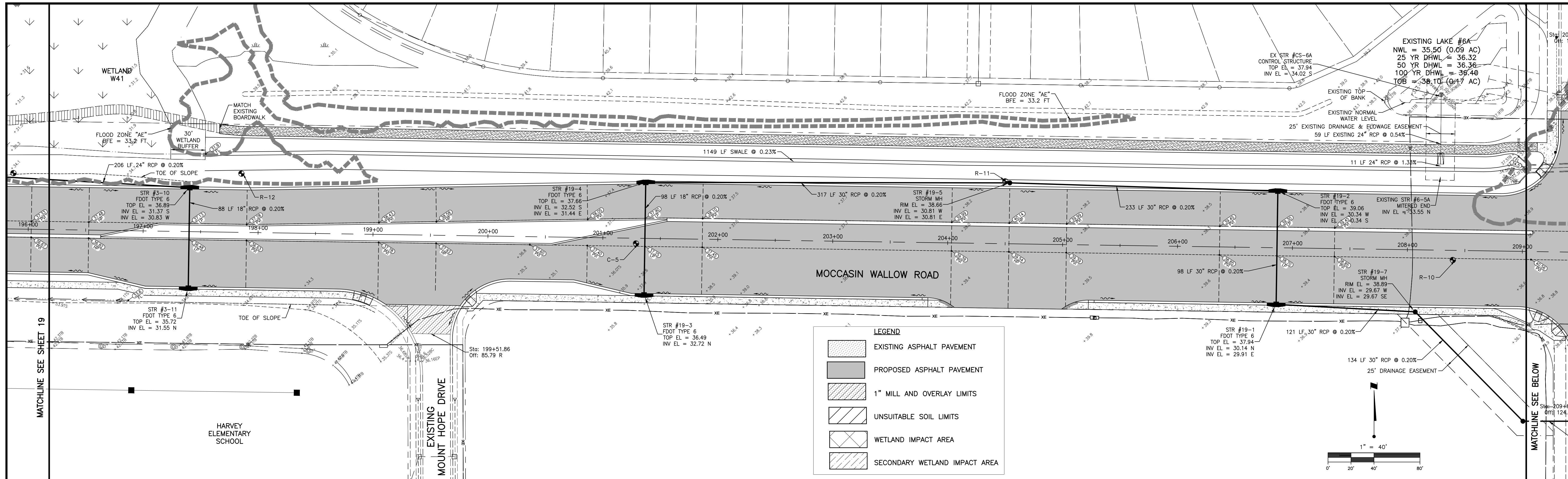
STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE TYPE	TOP ELEV	PIPES IN	PIPES OUT	COORDINATES
EX STR #13-7	STORM MH	31.86	42" INV IN =27.48 (W)		N: 1185069.50 E: 514974.98
EX STR #16-3	ENDWALL		24" INV IN =27.75 (SE)		N: 1185205.16 E: 515043.97
EX STR #16-4	GRATE INLET	36.21		24" INV OUT =32.46 (NW)	N: 1185130.34 E: 515083.66
EX STR #16-9	ENDWALL		24" INV IN =27.75 (N)		N: 1185213.72 E: 515076.23
EX STR #19-14	FDOT TYPE 6	38.17	18" INV IN =29.31 (E) 30" INV IN =29.31 (W)	24" INV OUT =29.31 (S)	N: 1185176.54 E: 514661.35
EX STR #CS-6A	CONTROL STRUCTURE			24" INV OUT =34.02 (S)	N: 1185458.90 E: 514545.20
EX STR #CS-16	CONTROL STRUCTURE			42" INV OUT =27.62 (E)	N: 1185087.44 E: 514884.66
STR #1-1	FDOT TYPE 6	40.40	18" INV IN =35.46 (S)	24" INV OUT =34.92 (E)	N: 1185384.48 E: 516595.89
STR #1-2	FDOT TYPE 6	39.80		18" INV OUT =35.63 (N)	N: 1185297.26 E: 516594.28
STR #1-3	FDOT TYPE 6	41.30	30" INV IN =33.61 (E) 18" INV IN =36.33 (W)	30" INV OUT =33.61 (W)	N: 1185386.81 E: 517187.59
STR #1-4	FDOT TYPE 6	40.70		18" INV OUT =36.53 (N)	N: 1185286.31 E: 517186.93
STR #1-5	FDOT TYPE 6	41.25	24" INV IN =35.77 (S)	24" INV OUT =35.77 (W)	N: 1185378.14 E: 517990.24
STR #1-6	FDOT TYPE 6	40.66		24" INV OUT =35.95 (N)	N: 1185284.31 E: 517987.03
STR #1-7	ENDWALL		36" INV IN =30.17 (S)		N: 1185477.52 E: 516942.66
STR #1-8	STORM MH	42.38	30" INV IN =33.12 (E) 24" INV IN =34.23 (W)	36" INV OUT =30.35 (N)	N: 1185388.59 E: 516941.04
STR #1-9	STORM MH	42.11	30" INV IN =34.00 (E)	30" INV OUT =34.00 (W)	N: 1185394.09 E: 517381.09
STR #1-10	ENDWALL			42" INV OUT =30.12 (S)	N: 1185483.91 E: 516597.71
STR #1-11	STORM MH	27.12	30" INV IN =20.36 (E)	30" INV OUT =24.11 (N)	N: 1185328.34 E: 511285.72
STR #1-12	FDOT TYPE 6	41.26	24" INV IN =35.18 (E) 18" INV IN =36.28 (S)	30" INV OUT =34.64 (W)	N: 1185383.41 E: 517701.66
STR #1-13	FDOT TYPE 6	40.66		18" INV OUT =36.49 (N)	N: 1185276.92 E: 517700.25
STR #3-1	FDOT TYPE 6	31.64	30" INV IN =18.05 (E) 18" INV IN =25.94 (S)	36" INV OUT =20.59 (W)	N: 1185407.46 E: 511616.66
STR #3-2	FDOT TYPE 6	30.27		18" INV OUT =26.09 (N)	N: 1185330.97 E: 511615.50
STR #3-3	FDOT TYPE 6	32.14	24" INV IN =27.17 (E) 24" INV IN =26.14 (S)	30" INV OUT =25.59 (W)	N: 1185395.35 E: 512416.45
STR #3-4	FDOT TYPE 6	31.02		24" INV OUT =26.32 (N)	N: 1185307.86 E: 512415.13
STR #3-5	FDOT TYPE 6	34.24	18" INV IN =28.91 (S) 24" INV IN =29.95 (E)	24" INV OUT =28.37 (W)	N: 1185397.27 E: 513016.69
STR #3-6	FDOT TYPE 6	33.68	18" INV IN =29.08 (S)	18" INV OUT =29.08 (N)	N: 1185309.78 E: 513015.37
STR #3-6A	ENDWALL		36" INV IN =19.33 (S)		N: 1185611.41 E: 511175.70

STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE TYPE	TOP ELEV	PIPES IN	PIPES OUT	COORDINATES
STR #3-7	STORM MH	28.50	36" INV IN =20.09 (E)	36" INV OUT =20.09 (W)	N: 1185417.00 E: 511366.77
STR #3-8	FDOT TYPE 6	32.19	18" INV IN =26.49 (S) 30" INV IN =24.79 (E)	30" INV OUT =18.85 (W)	N: 1185401.41 E: 512016.61
STR #3-9	STORM MH	33.43	24" INV IN =27.96 (E)	24" INV OUT =27.96 (W)	N: 1185403.03 E: 512811.61
STR #3-10	FDOT TYPE 6	36.89	18" INV IN =31.37 (S)	24" INV OUT =30.83 (W)	N: 1185379.72 E: 513456.48
STR #3-11	FDOT TYPE 6	35.72		18" INV OUT =31.55 (N)	N: 1185292.23 E: 513455.17
STR #3-12	STORM MH	35.06	24" INV IN =30.42 (E)	24" INV OUT =30.42 (W)	N: 1185391.52 E: 513250.69
STR #3-13	FDOT TYPE 6	30.82		18" INV OUT =26.64 (N)	N: 1185324.91 E: 512015.45
STR #3-14	GRATE INLET	32.80		18" INV OUT =29.12 (N)	N: 1185290.65 E: 513015.03
STR #3-15	STORM MH	28.00	36" INV IN =19.72 (E)	36" INV OUT =19.72 (N)	N: 1185414.61 E: 511181.53
STR #6-5A	MITERED END		24" INV IN =33.55 (N)		N: 1185388.81 E: 514544.57
STR #16-1	FDOT TYPE 6	40.40	18" INV IN =35.93 (N)	18" INV OUT =35.39 (E)	N: 1185282.95 E: 514820.35
STR #16-2	FDOT TYPE 6	40.67		18" INV OUT =36.57 (S)	N: 1185381.44 E: 514821.82
STR #16-3	FDOT TYPE 6	40.10	24" INV IN =33.79 (E) 18" INV IN =35.93 (N)	24" INV OUT =33.79 (W)	N: 1185276.27 E: 515270.30
STR #16-4	FDOT TYPE 6	40.67		18" INV OUT =36.57 (S)	N: 1185374.76 E: 515271.77
STR #16-5	STORM MH	40.94	24" INV IN =33.40 (E) 18" INV IN =34.88 (W)	24" INV OUT =31.91 (S)	N: 1185276.39 E: 515077.16
STR #16-6	FDOT TYPE 6	40.56		18" INV OUT =36.39 (S)	N: 1185373.91 E: 515895.52
STR #16-7	FDOT TYPE 6	39.77	18" INV IN =35.60 (N)	24" INV OUT =35.06 (W)	N: 1185288.55 E: 515901.72
STR #16-8	STORM MH	41.05	24" INV IN =34.43 (E)	24" INV OUT =34.43 (W)	N: 1185269.94 E: 515589.72
STR #19-1	FDOT TYPE 6	37.94	30" INV IN =30.14 (N)	30" INV OUT =29.91 (E)	N: 1185278.17 E: 514401.62
STR #19-2	FDOT TYPE 6	39.06	30" INV IN =30.34 (W)	30" INV OUT =30.34 (S)	N: 1185376.66 E: 514403.08
STR #19-3	FDOT TYPE 6	36.49		18" INV OUT =32.72 (N)	N: 1185286.34 E: 513851.68
STR #19-4	FDOT TYPE 6	37.66	18" INV IN =32.52 (S)	30" INV OUT =31.44 (E)	N: 1185384.25 E: 513853.17
STR #19-5	STORM MH	38.66	30" INV IN =30.81 (W)	30" INV OUT =30.81 (E)	N: 1185383.87 E: 514169.93
STR #19-6	STORM MH	35.00	30" INV IN =29.40 (NW)	30" INV OUT =29.40 (E)	N: 1185176.54 E: 514616.31
STR #19-7	STORM MH	38.89	30" INV IN =29.67 (W)	30" INV OUT =29.67 (SE)	N: 1185271.66 E: 514522.59
STR #CS-1A	CONTROL STRUCTURE			42" INV OUT =34.66 (S)	N: 1185424.89 E: 516318.92
STR #CS-1B	CONTROL STRUCTURE		42" INV IN =29.99 (N)		N: 1185417.32 E: 516596.49

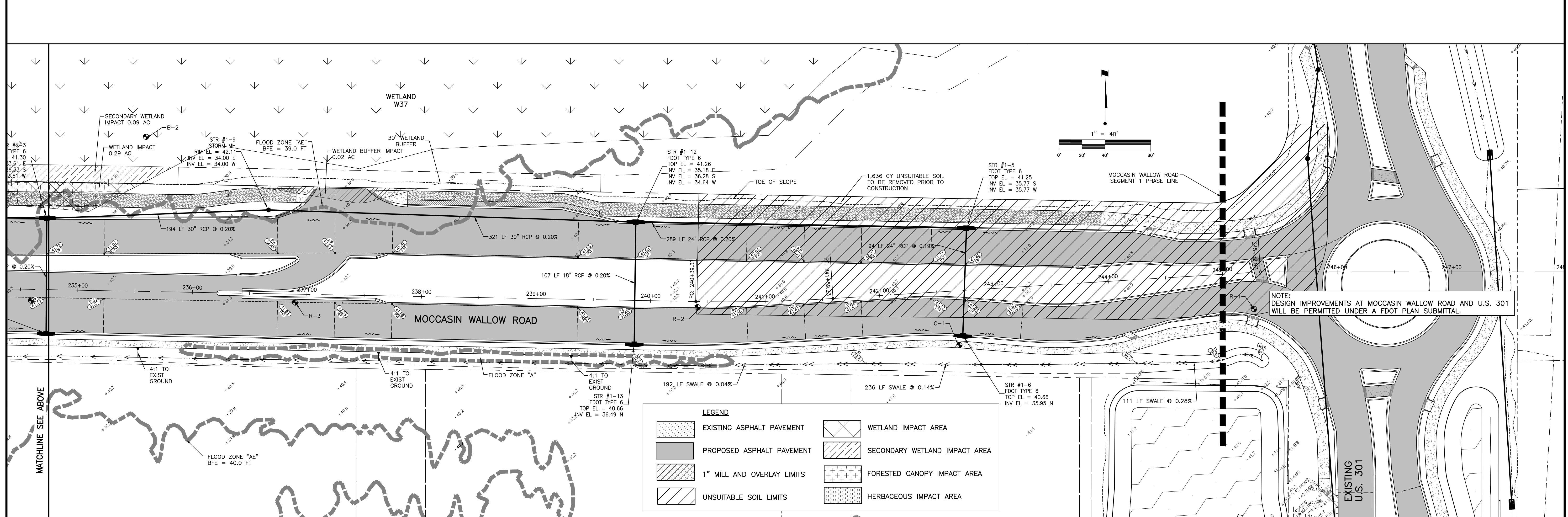
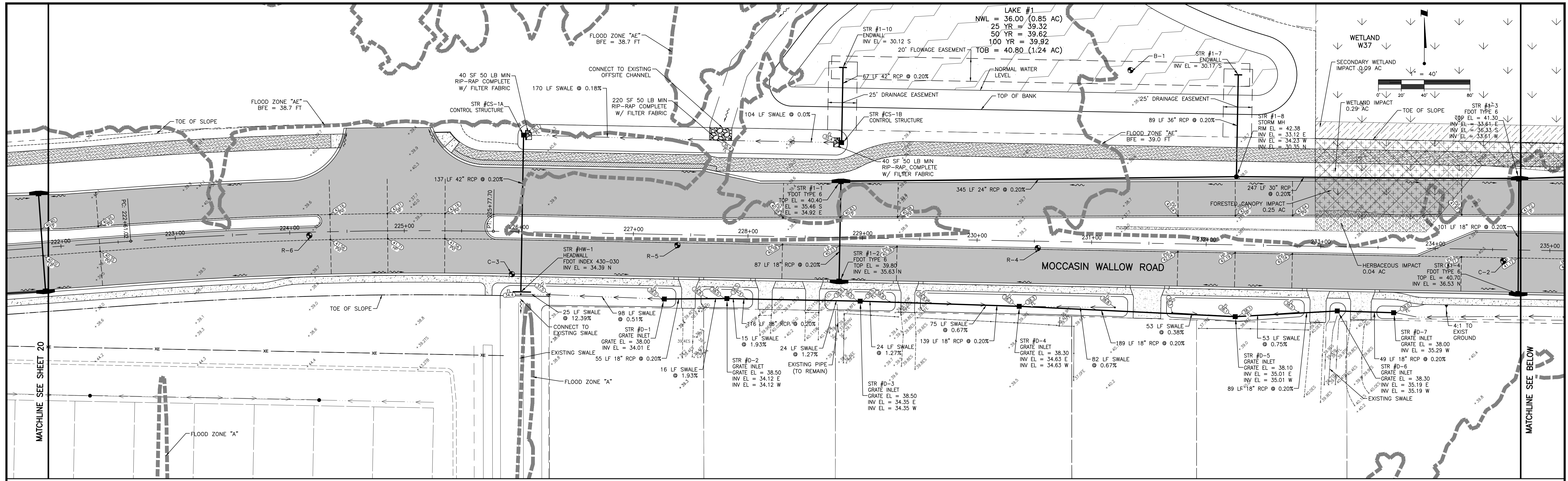
STRUCTURE TABLE					
STRUCTURE NAME	STRUCTURE TYPE	TOP ELEV	PIPES IN	PIPES OUT	COORDINATES
STR #CS-1C	CONTROL STRUCTURE		38" INV IN =20.62 (N)		N: 1185315.26 E: 511822.50
STR #CS-1D	CONTROL STRUCTURE			30" INV OUT =20.62 (W)	N: 1185321.20 E: 511416.51
STR #D-1	GRATE INLET	38.00	18" INV IN =34.01 (E)		N: 1185281.77 E: 516441.77
STR #D-2	GRATE INLET	38.50	18" INV IN =34.12 (E)	18" INV OUT =34.12 (W)	N: 1185282.16 E: 516496.33
STR #D-3	GRATE INLET	38.50	18" INV IN =34.35 (E)	18" INV OUT =34.35 (W)	N: 1185279.89 E: 516612.67
STR #D-4	GRATE INLET	38.30	18" INV IN =34.63 (E)	18" INV OUT =34.63 (W)	N: 1185275.40 E: 516751.50
STR #D-5	GRATE INLET	38.10	18" INV IN =35.01 (E)	18" INV OUT =35.01 (W)	N: 1185266.35 E: 516940.01
STR #D-6	GRATE INLET	38.30	18" INV IN =35.19 (E)	18" INV OUT =35.19 (W)	N: 1185271.34 E: 517029.08
STR #D-7	GRATE INLET	38.00		18" INV OUT =35.29 (W)	N: 1185269.78 E: 517078.25
STR #HW-1	HEADWALL FDOT INDEX 430-030		42" INV IN =34.39 (N)		N: 1185287.97 E: 516316.50
STR #HW-2	HEADWALL FDOT INDEX 430-030		30" INV IN =24.10 (S)		N: 1185333.84 E: 511285.48
STR #HW-3	HEADWALL FDOT INDEX 430-030			38" INV OUT =23.39 (S)	N: 1185441.13 E: 511824.41
STR #JB-1	JUNCTION BOX FDOT INDEX 425-010	40.50		24" INV OUT =36.00 (W)	N: 1185408.58 E: 515195.36
STR #JB-2	JUNCTION BOX FDOT INDEX 425-010	40.00	24" INV IN =33.40 (E)		N: 1185402.58 E: 514795.81



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LEGEND

	EXISTING ASPHALT PAVEMENT		WETLAND IMPACT AREA
	PROPOSED ASPHALT PAVEMENT		SECONDARY WETLAND IMPACT AREA
	1" MILL AND OVERLAY LIMITS		FORESTED CANOPY IMPACT AREA
	UNSUITABLE SOIL LIMITS		HERBACEOUS IMPACT AREA

NOTE: DESIGN IMPROVEMENTS AT MOCCASIN WALLOW ROAD AND U.S. 301 WILL BE PERMITTED UNDER A FDOT PLAN SUBMITTAL.

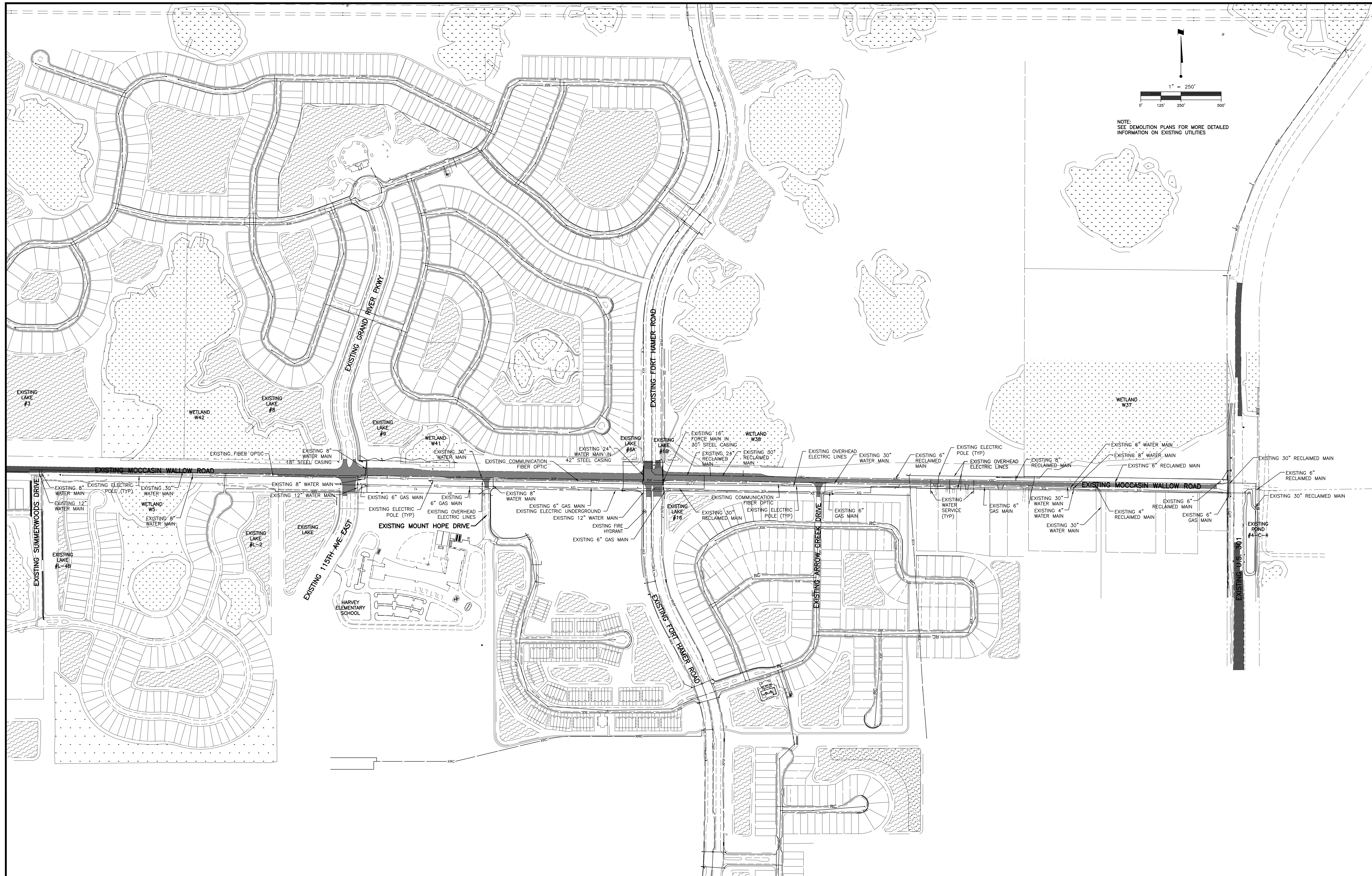
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C	11/5/21	MSC/98616			CHECKED BY:		10/2020
					CONTRACT ADMIN. BY:		
					WM APPROVED BY:		

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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE:
 TITLE: PAVING, GRADING AND DRAINAGE PLAN

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-1395D
 SHEET NUMBER: 21 OF 112



NOTE:
SEE DEMOLITION PLANS FOR MORE DETAILED
INFORMATION ON EXISTING UTILITIES

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	REVISED WATER & GAS	11/5/21	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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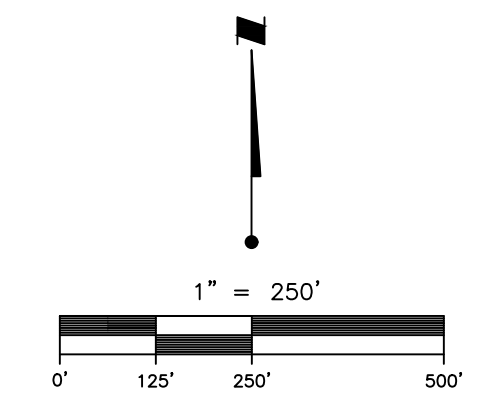
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

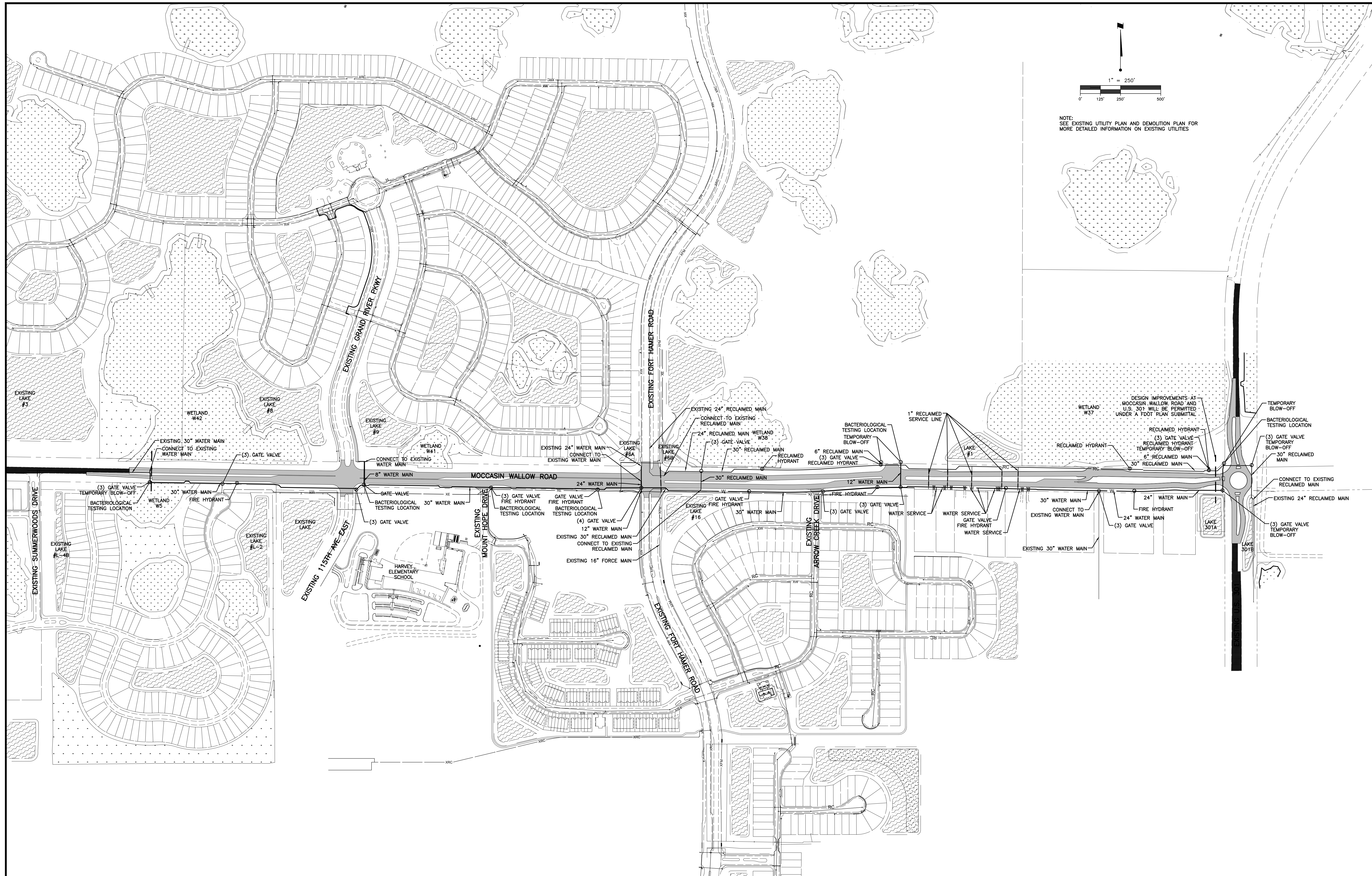
DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE: 1" = 33.33'

TITLE: EXISTING UTILITY PLAN

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-150UP
 SHEET NUMBER: 22 OF 112



NOTE:
SEE EXISTING UTILITY PLAN AND DEMOLITION PLAN FOR
MORE DETAILED INFORMATION ON EXISTING UTILITIES



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REVISED WATER & RECLAIM	4/15/22	MSC/98616		
C	REVISED WATER MAIN	11/5/21	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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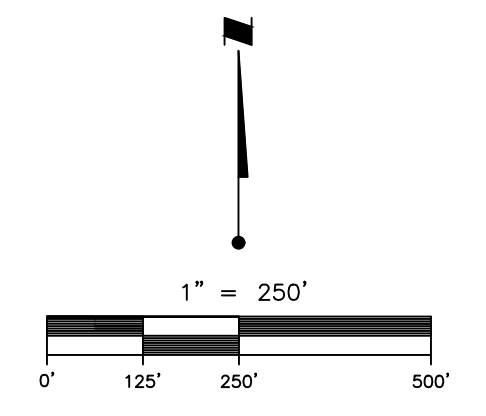
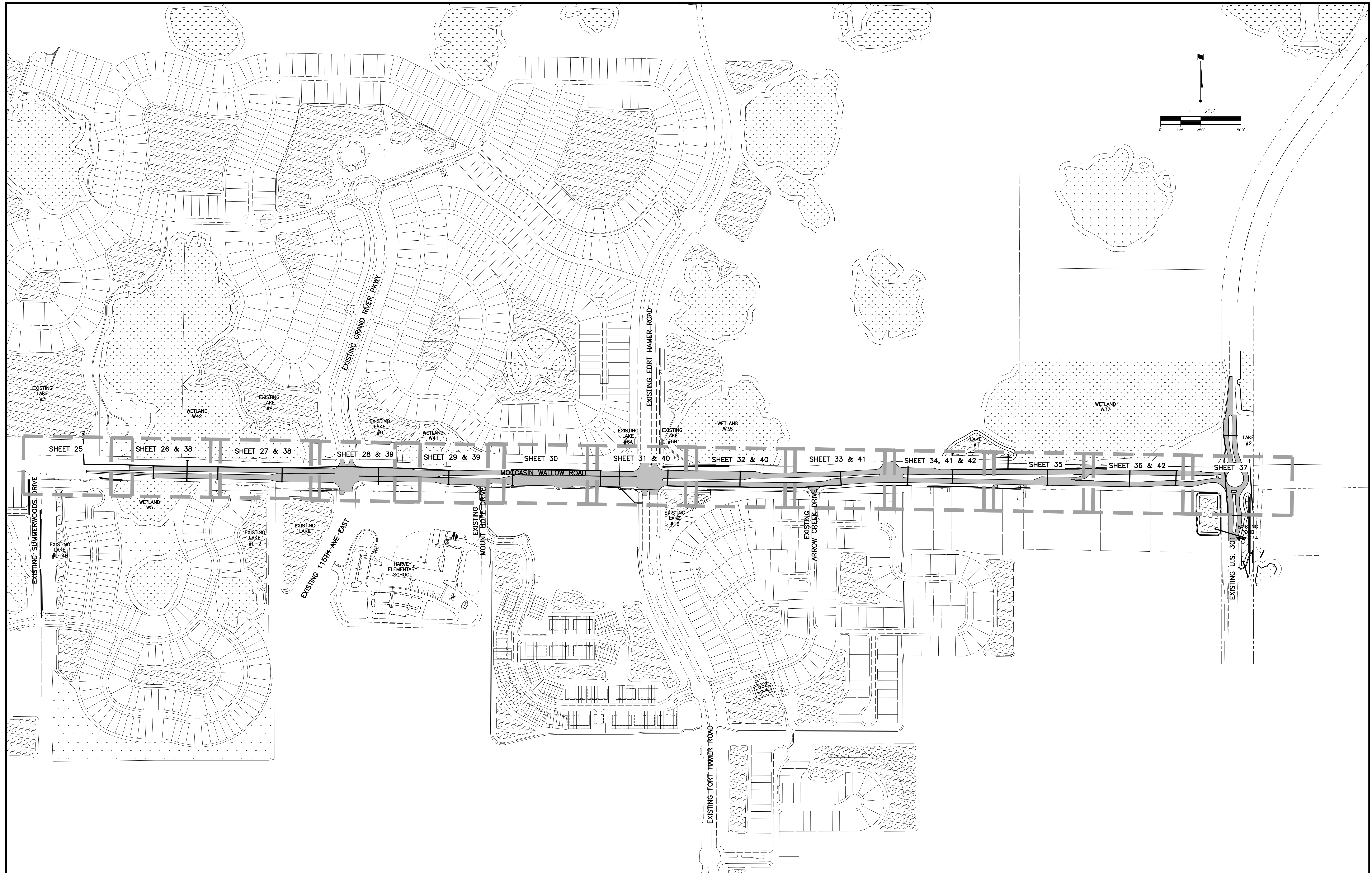
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE:

TITLE: MASTER UTILITY PLAN
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-151UP
 SHEET NUMBER: 23 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	REVISED SHEET NUMBERS	11/5/21	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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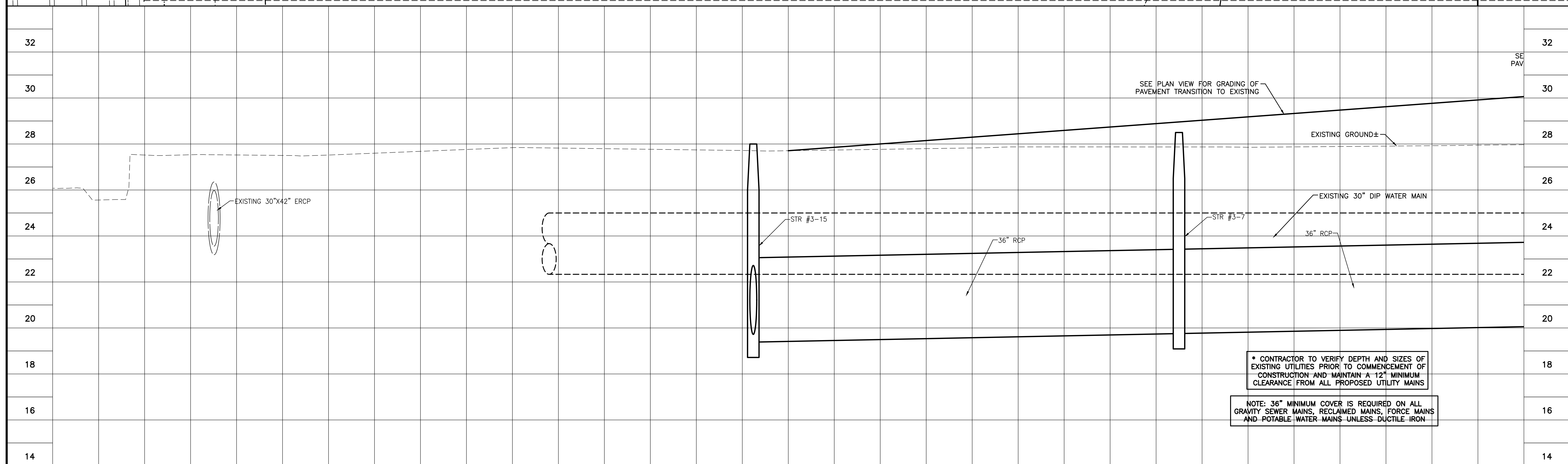
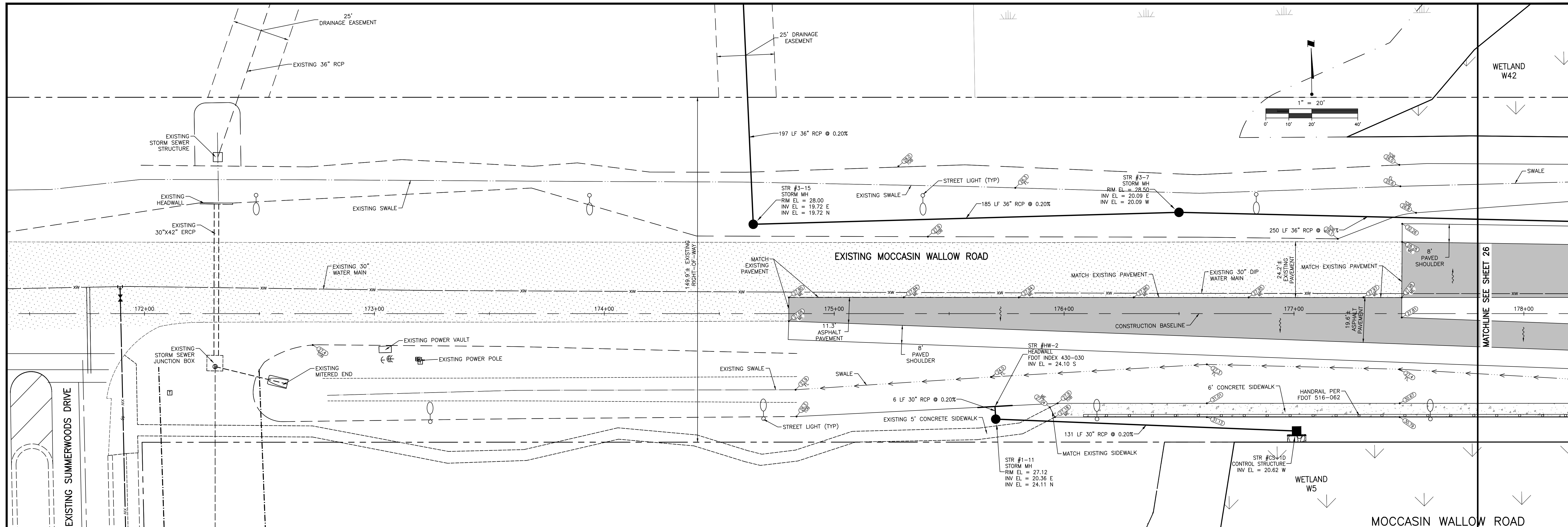
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing. Any errors or omissions shall be reported to Stantec, without delay. Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 250'
 VERTICAL SCALE: 1" = 33.33'

TITLE: PLAN AND PROFILE KEY SHEET

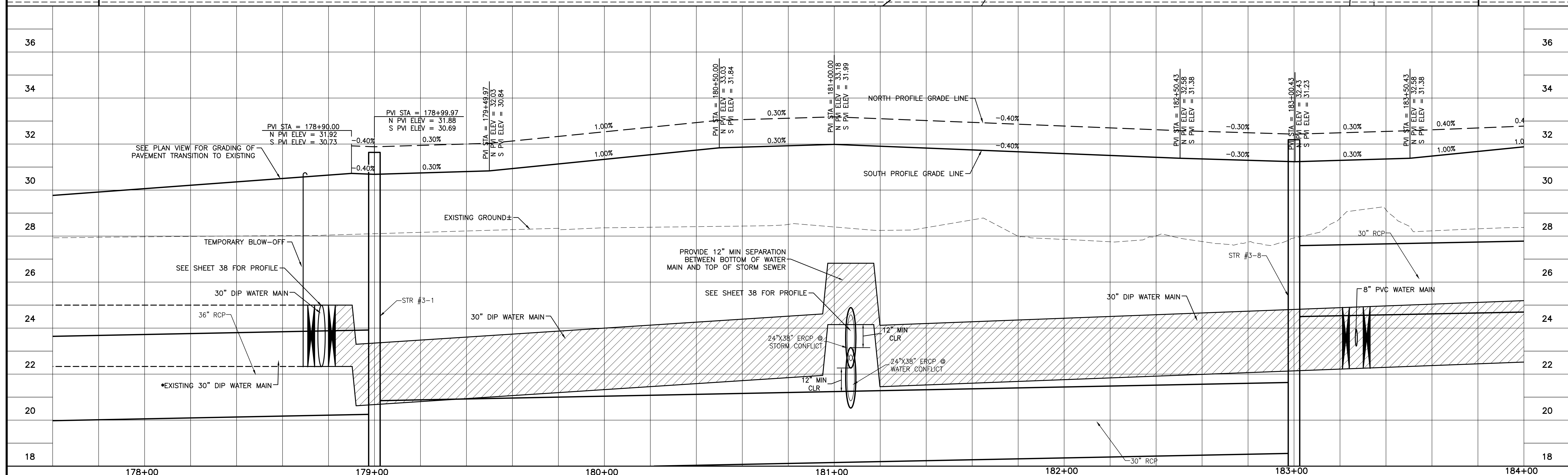
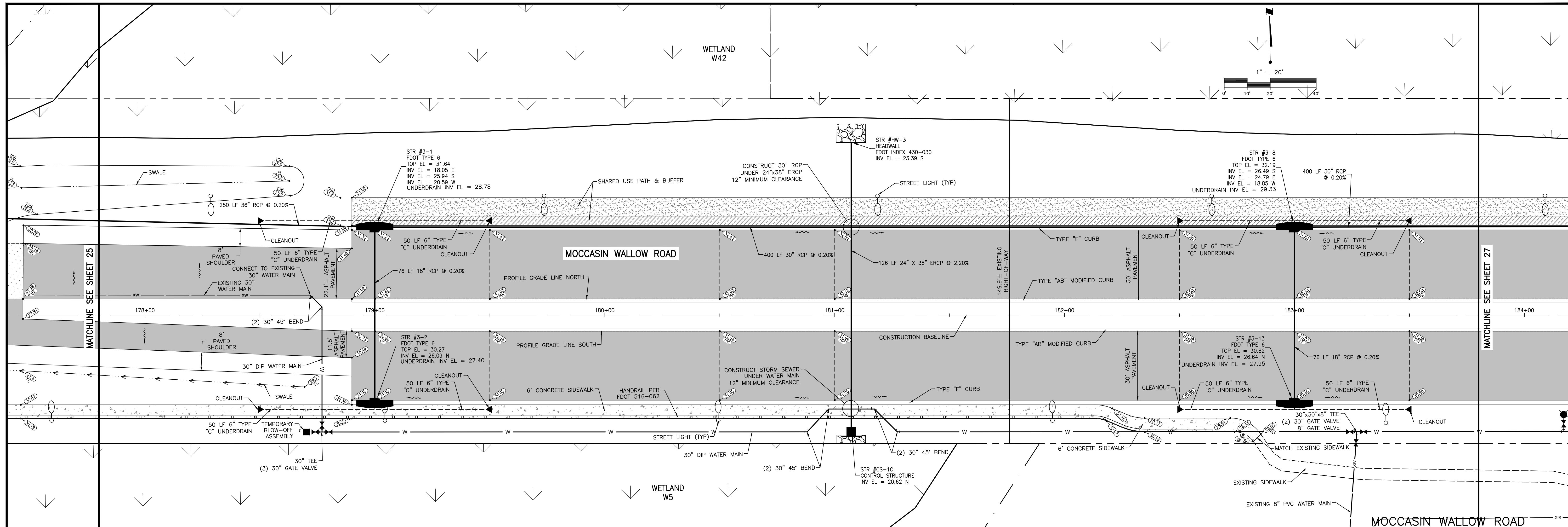
ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-152UP
 SHEET NUMBER: 24 OF 112



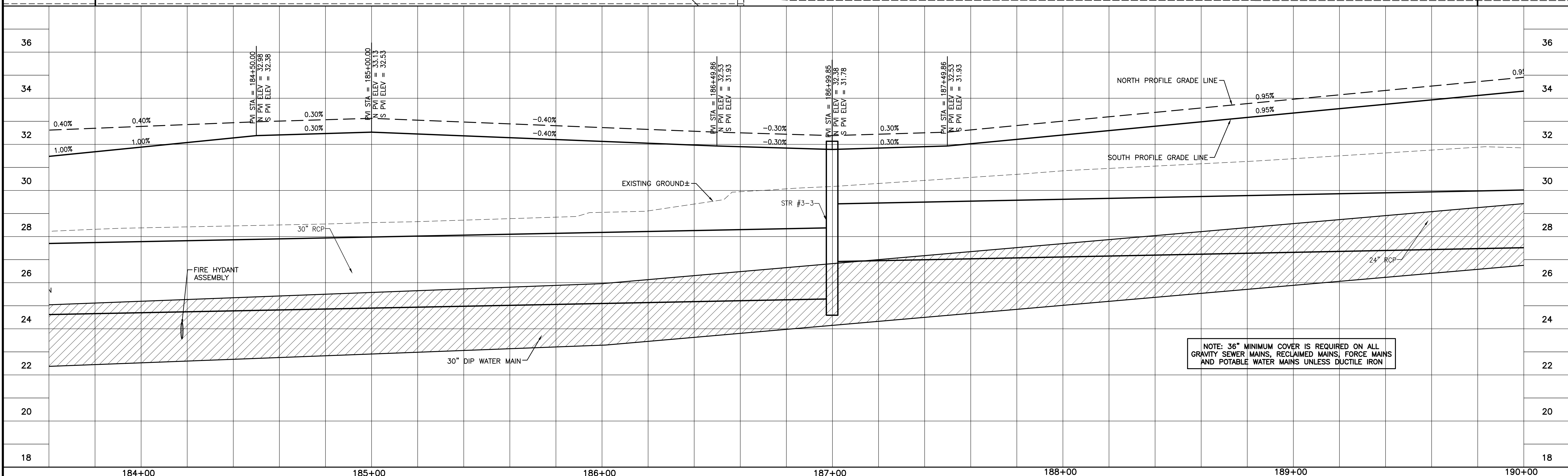
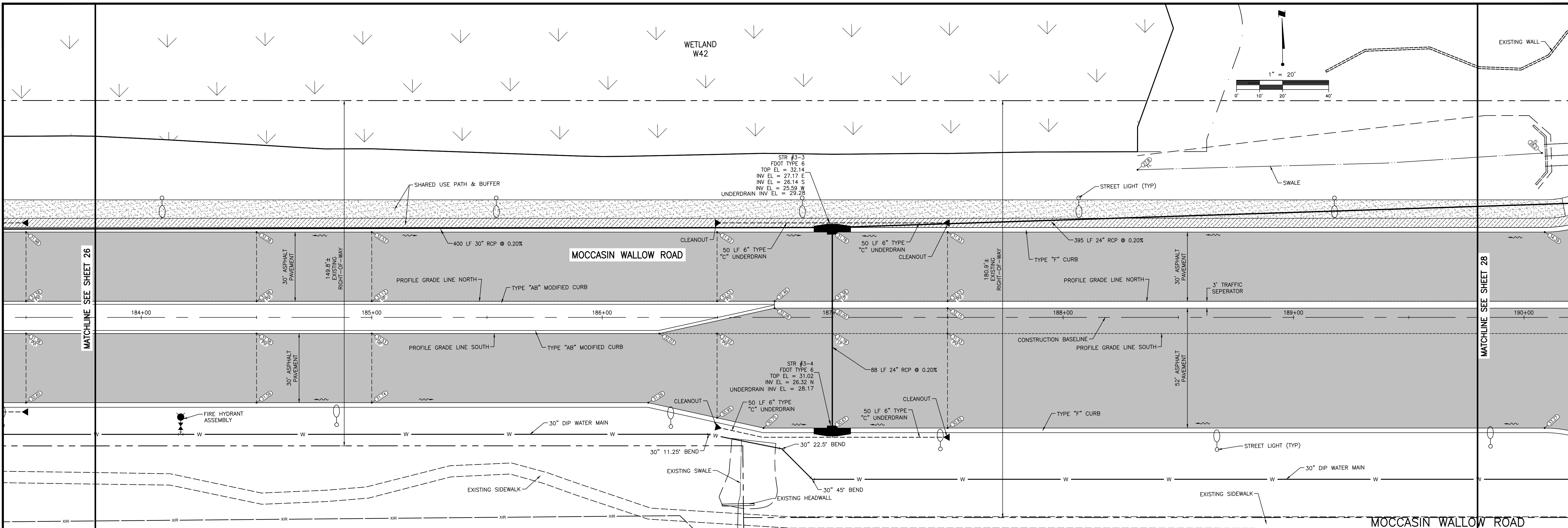
* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12" MINIMUM CLEARANCE FROM ALL PROPOSED UTILITY MAINS

NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

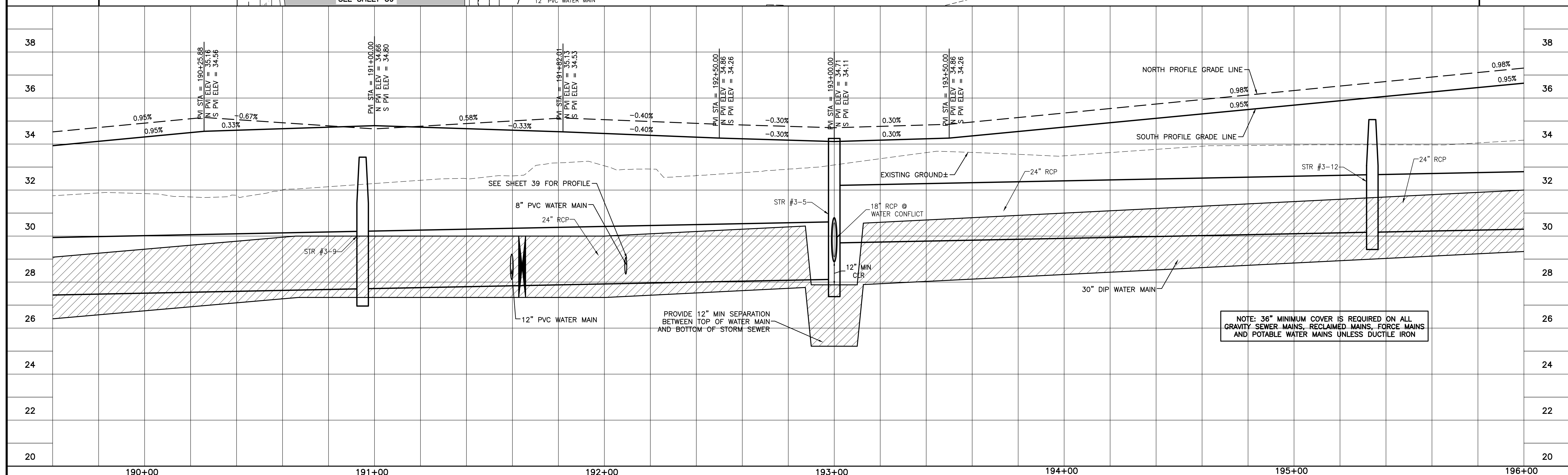
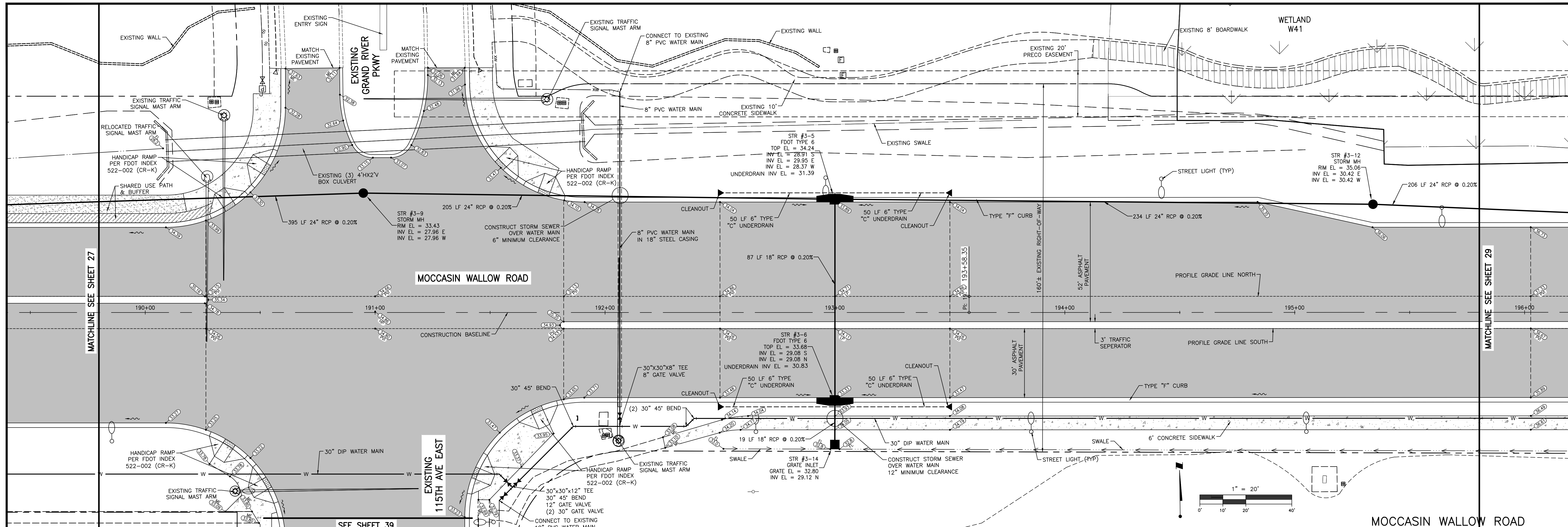
172+00	173+00	174+00	175+00	176+00	177+00	178+00		
D ADDED GRADES. 4/15/22 MSC/98616 C REVISED PVMT, SHARED USE & EX WATER 11/5/21 MSC/98616		ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		Stantec 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com		CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2' SHEET: 26 OF 335 19E	TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 172+00 TO 178+00 PROJECT NUMBER: 215615900 SHEET NUMBER: 25 OF 112



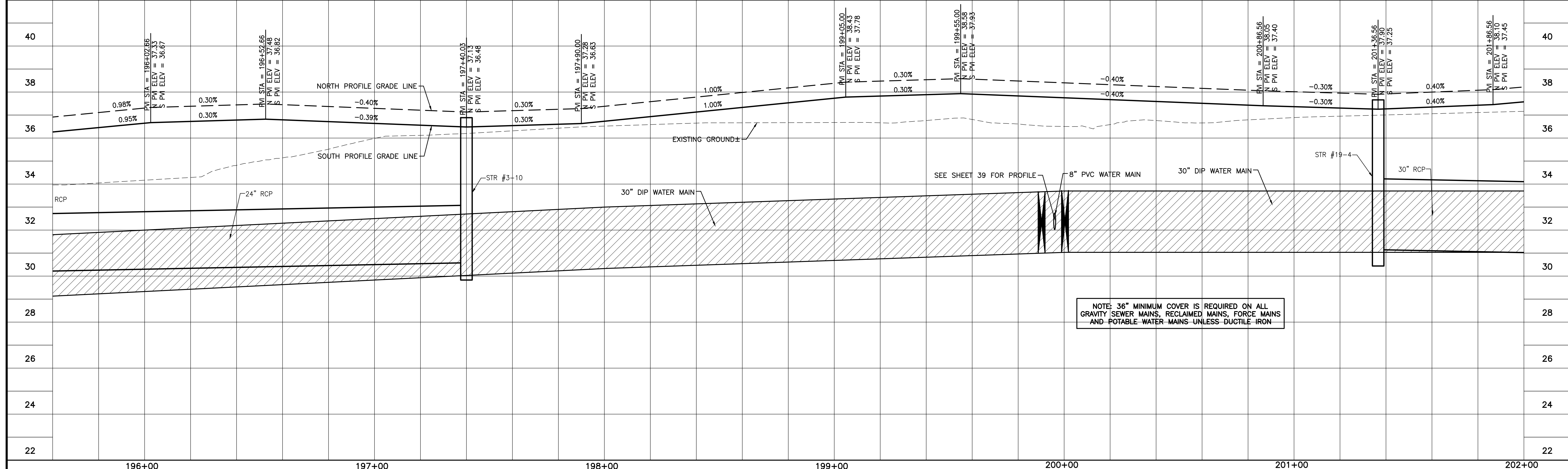
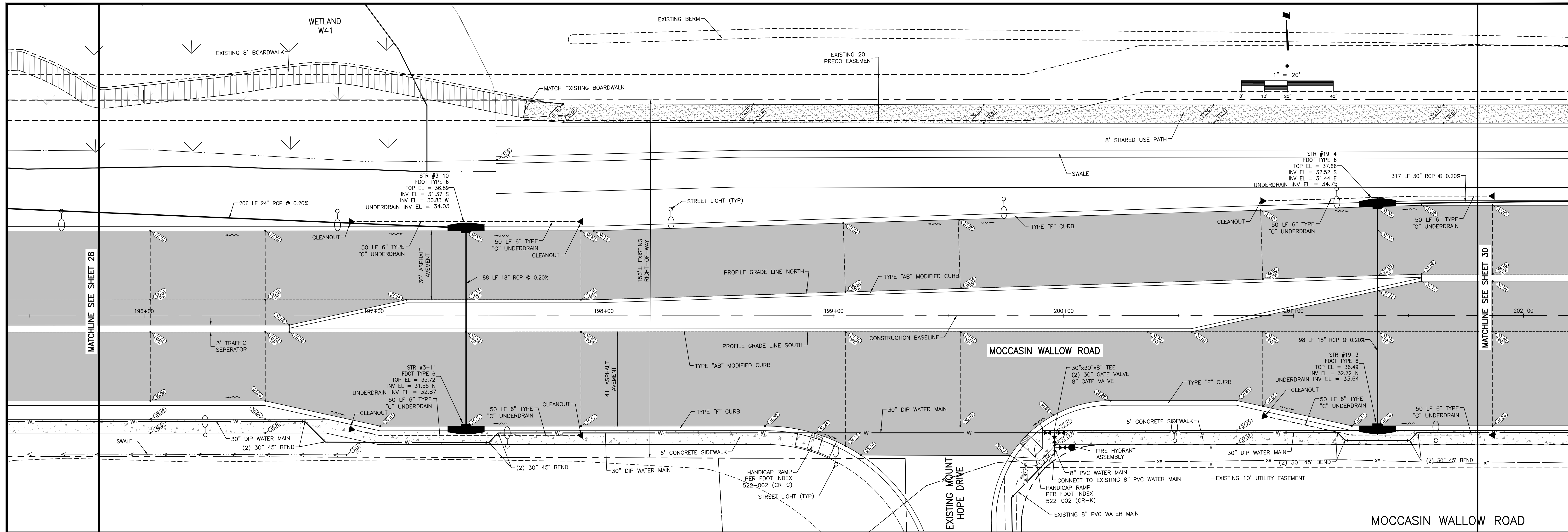
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REV	DESCRIPTION	DATE	BY	CHECKED																																		
D	REMOVED REDUCERS.	4/15/22	MSC/98616																																			
C	REVISED SHARED USE PATH, SWALE	11/5/21	MSC/98616																																			
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C REVISED WATER DATE: 11/5/21 DRAWN BY: MSC/98616	ACTIVITY: DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2' SHEET: 19 OF 335 CROSS REFERENCE FILE NO.: 215615900-01c-201st.dwg	TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 184+00 TO 190+00 PROJECT NUMBER: 215615900 SHEET NUMBER: 27 OF 112	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 215615900-01c-201ST SHEET NUMBER: 27 OF 112
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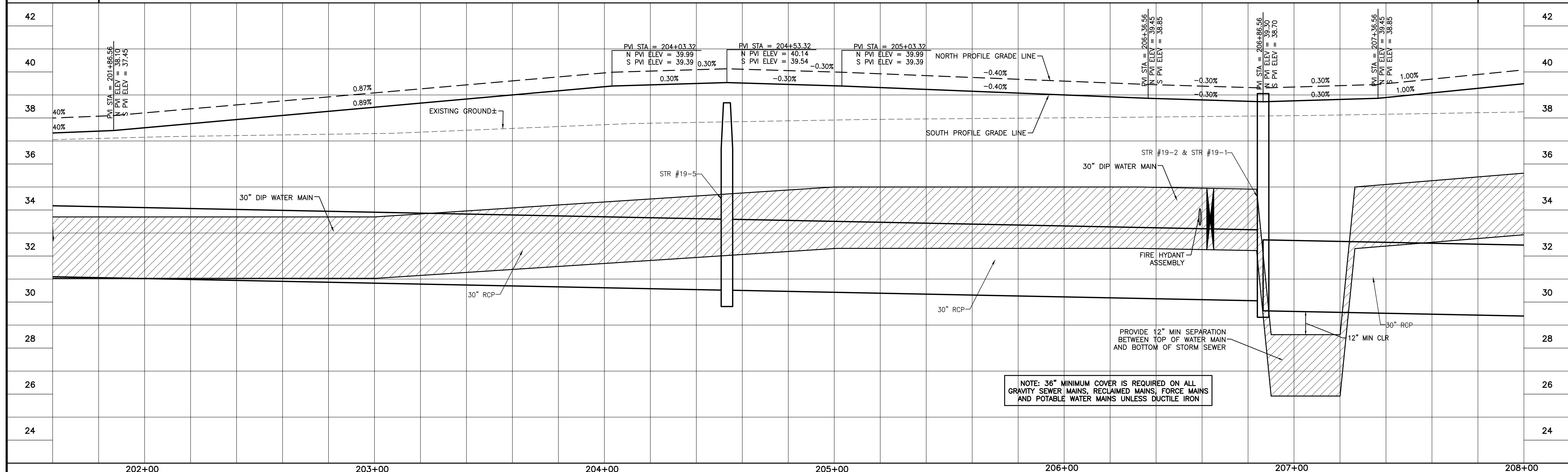
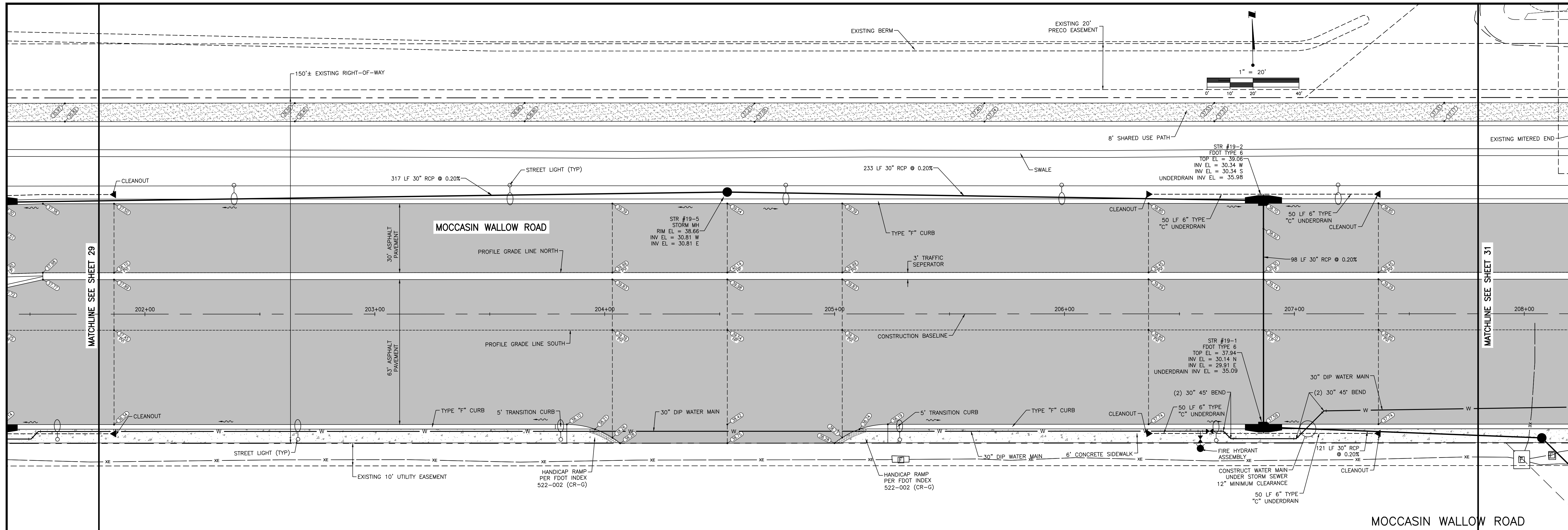


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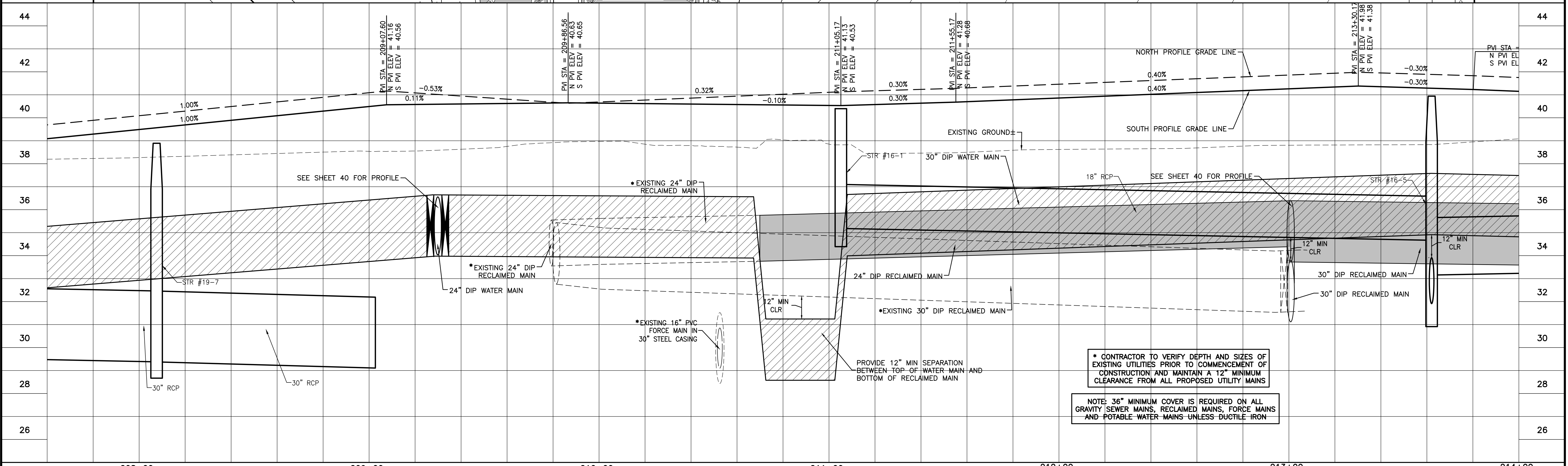
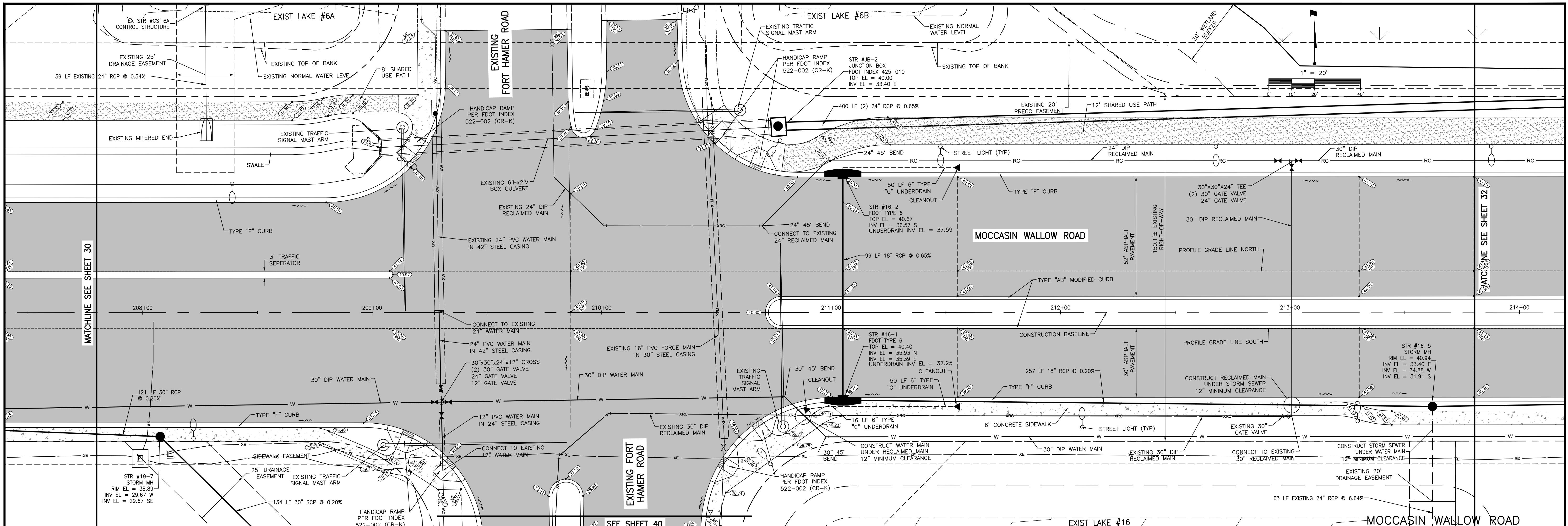


NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

<table border="1"> <tr> <th>REV</th> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>APP</th> </tr> <tr> <td>D</td> <td>1</td> <td>4/15/22</td> <td>MSC/98616</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>2</td> <td>11/5/21</td> <td>MSC/98616</td> <td></td> <td></td> </tr> </table>	REV	NO.	DATE	BY	CHKD	APP	D	1	4/15/22	MSC/98616			C	2	11/5/21	MSC/98616			<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>DRAWN BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:		10/2020	DRAWN BY:		10/2020	CHECKED BY:			CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020 HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2' SHEET: 20 OF 33S 19E</p>	<p>TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 196+00 TO 202+00</p>	<p>ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-201ST SHEET NUMBER: 29 OF 112</p>
REV	NO.	DATE	BY	CHKD	APP																																					
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REV	DESCRIPTION	DATE	BY	CHECKED																													
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ACTIVITY	INITIALS/EMP. NO.	DATE																															
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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REMOVED REDUCERS, REVISED UNDERDRAIN, WATER, ADDED 24\"/>	4/15/22	MSC/98616		
C	REVISED WATER & RECLAIM	11/5/21	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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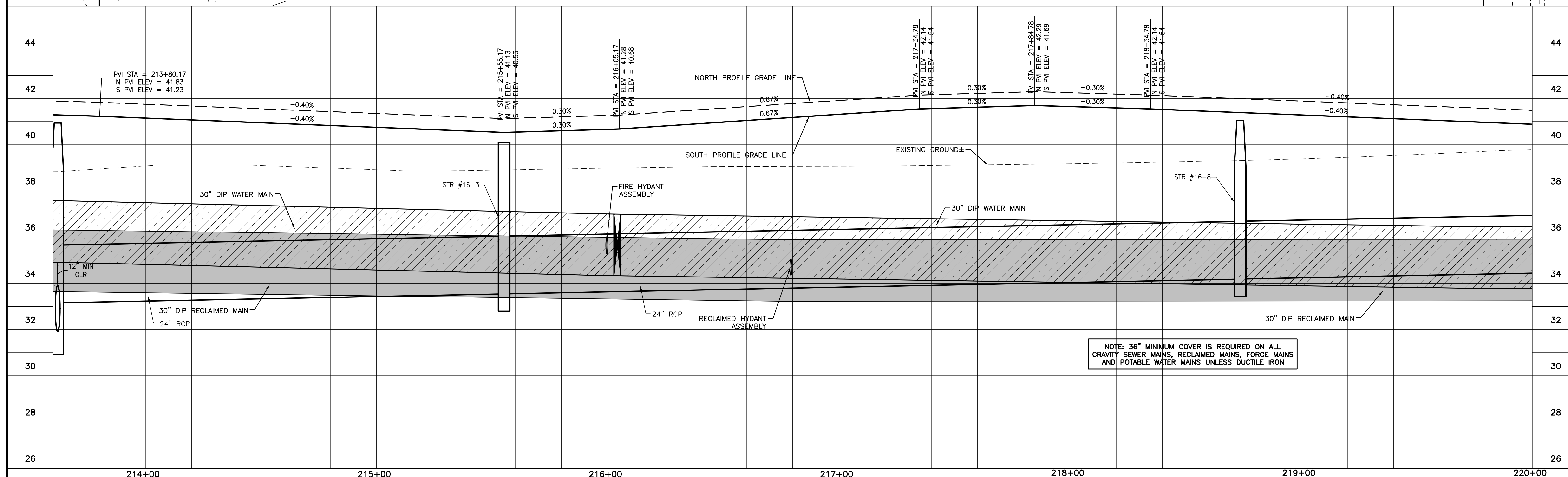
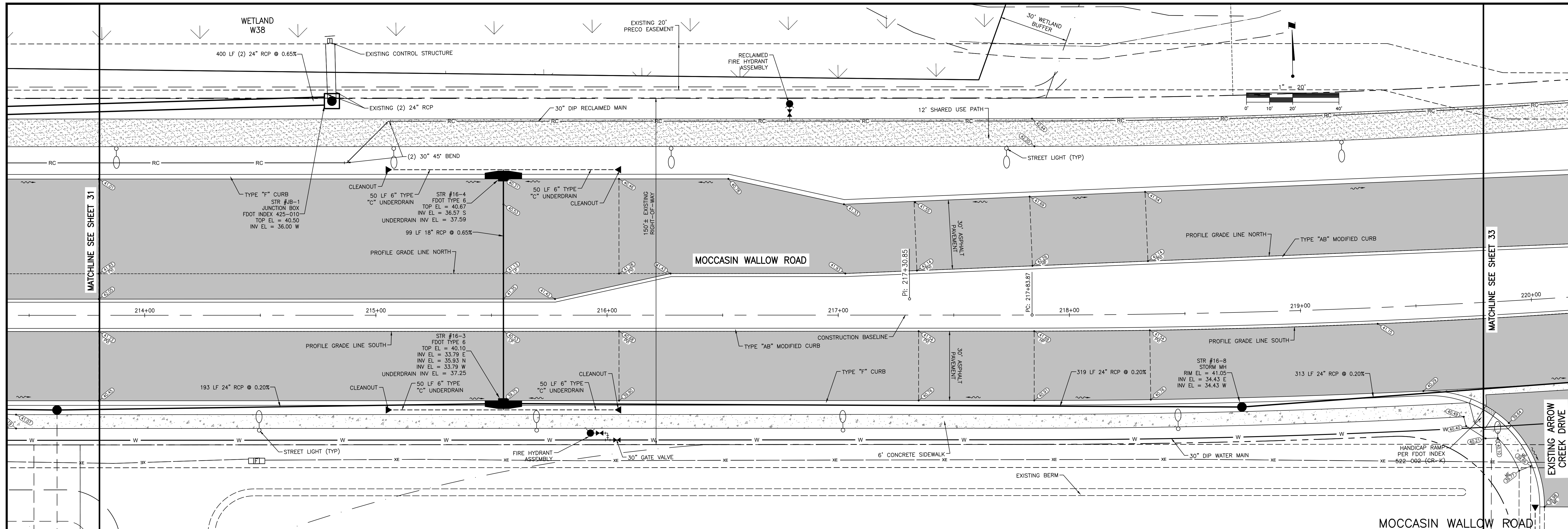
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'
SHEET NO. 31 OF 112

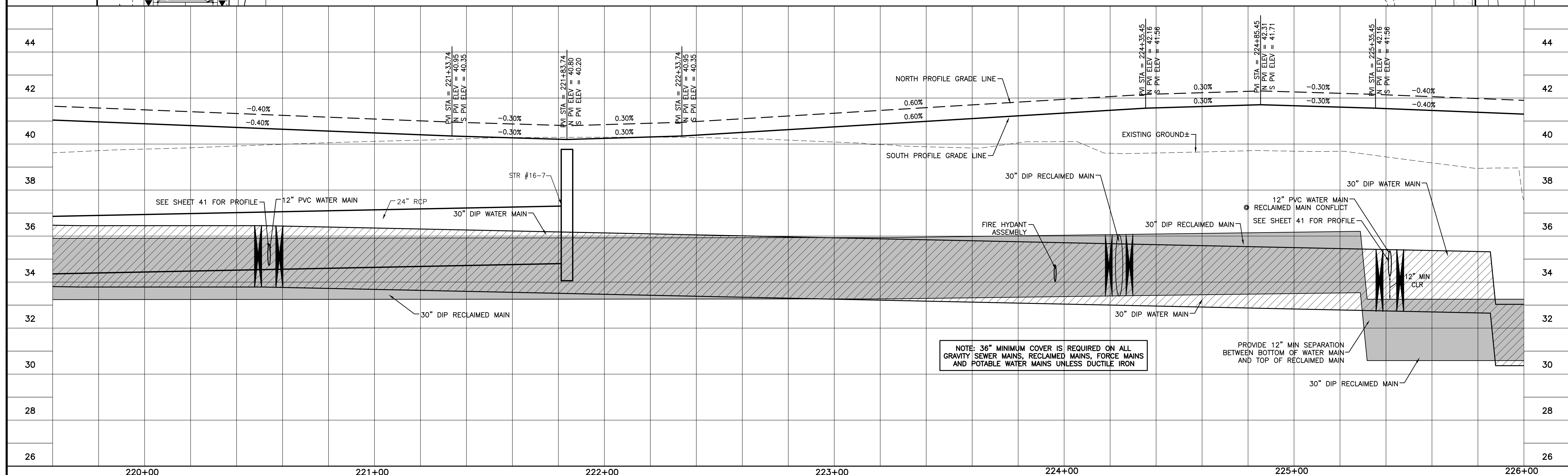
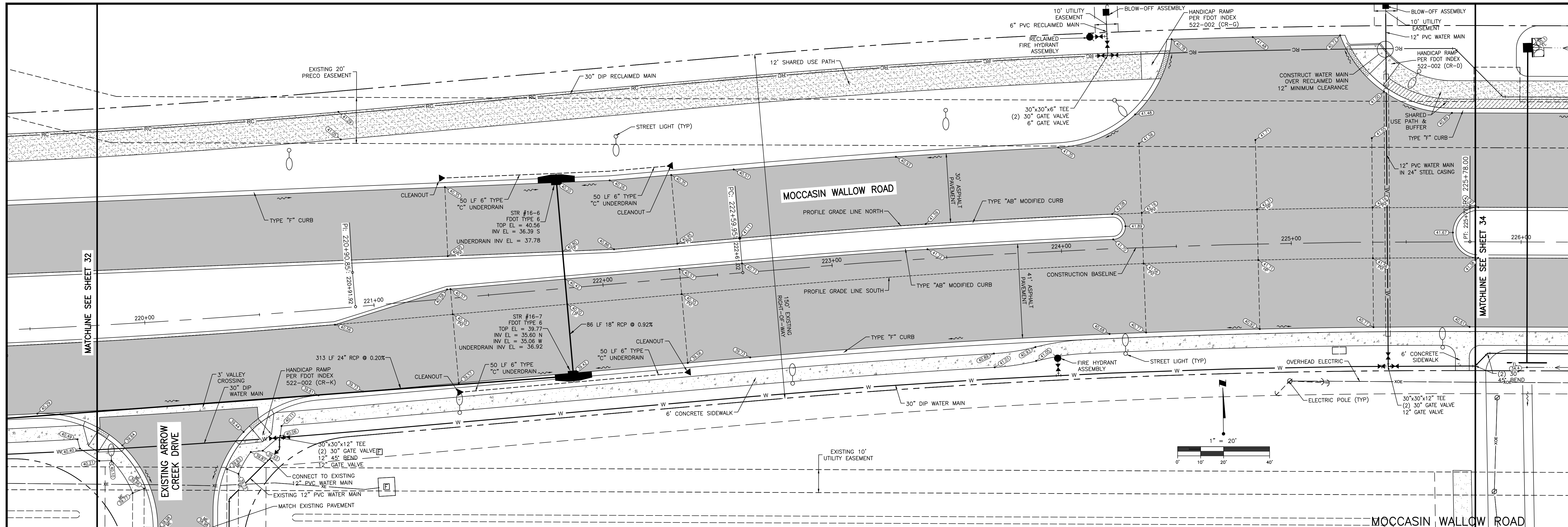
TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 208+00 TO 214+00

PROJECT NUMBER: 215615900	SHEET NUMBER: 31 OF 112
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NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

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REV	NO.	DESCRIPTION	DATE	BY	CHECKED																																				
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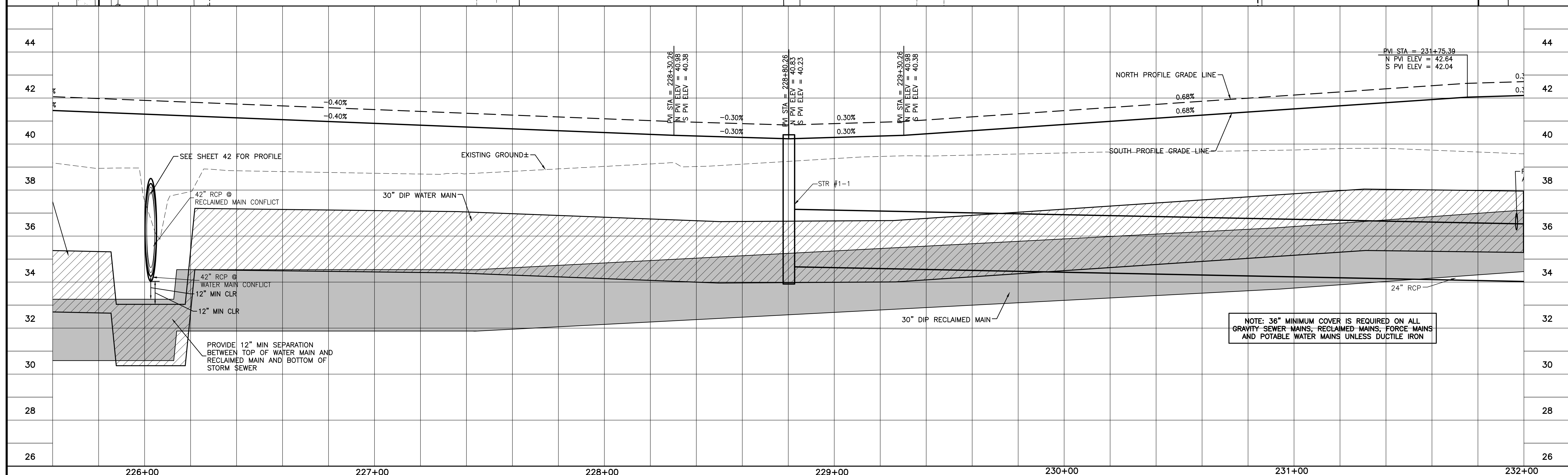
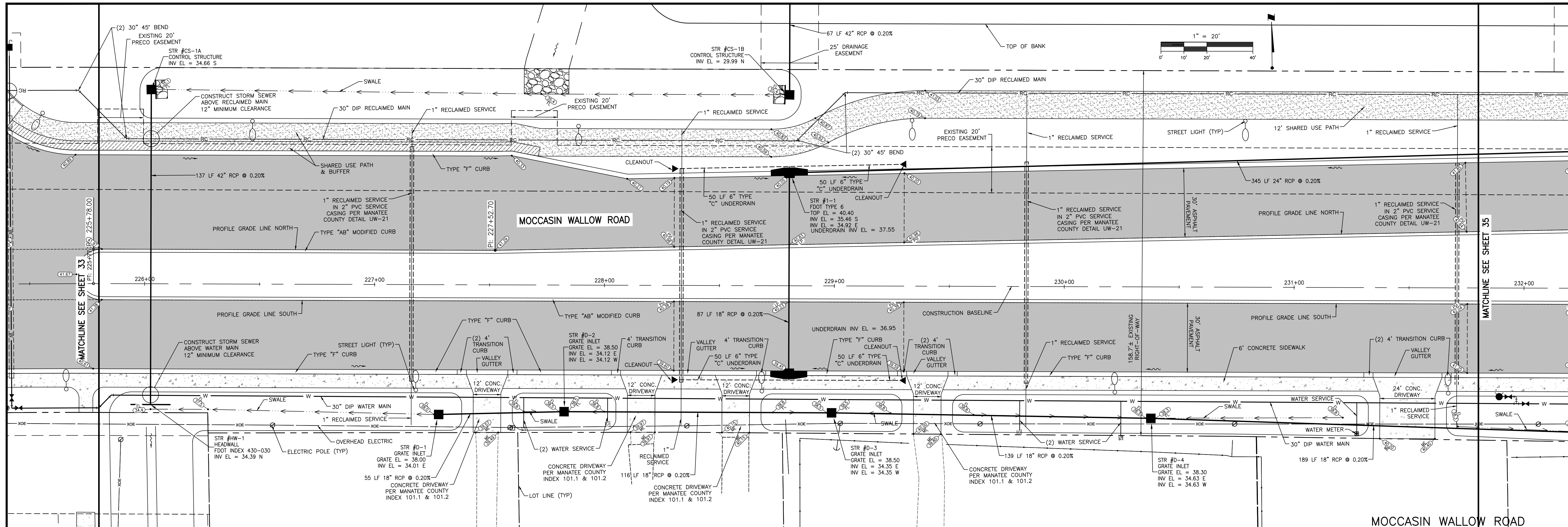
PROVIDE 12" MIN SEPARATION BETWEEN BOTTOM OF WATER MAIN AND TOP OF RECLAIMED MAIN

REV	DATE	BY	CHKD	DESCRIPTION
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C	11/5/21	MSC/98616		REVISED WATER

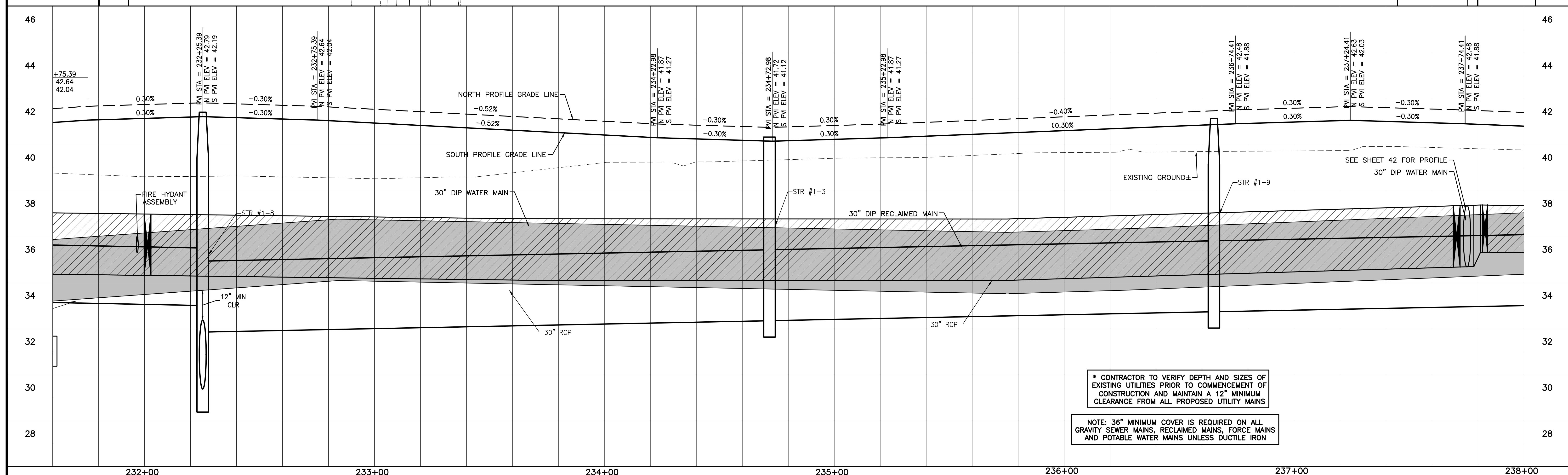
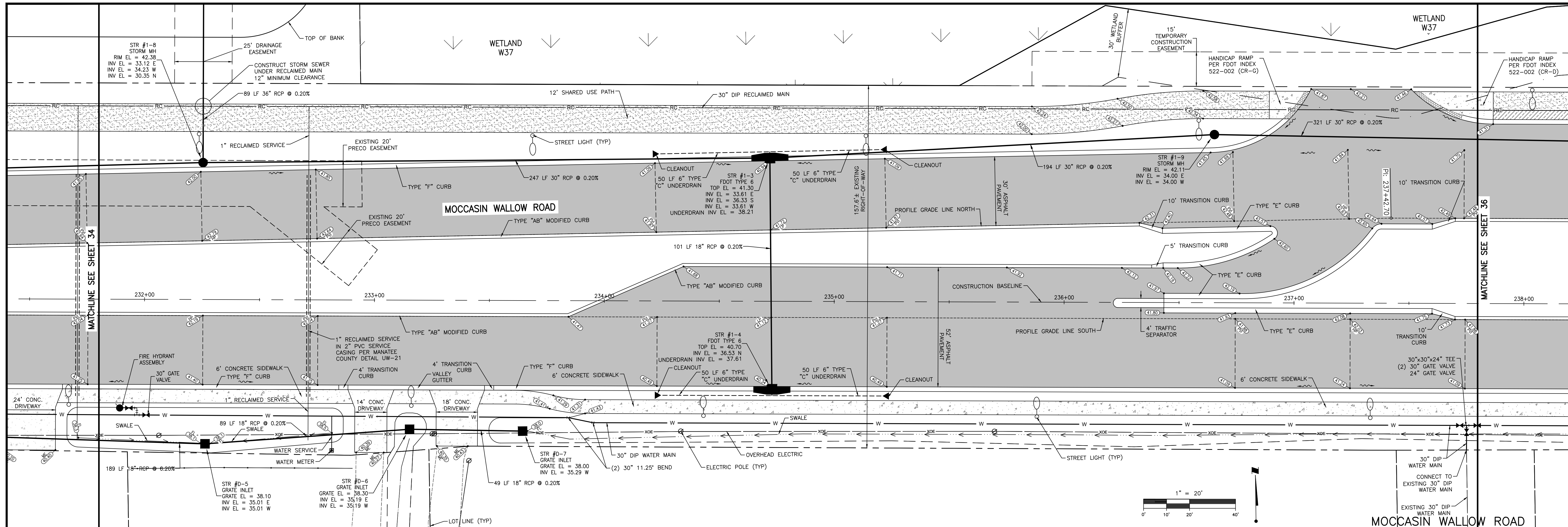
ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1
DATE:	10/2020
TITLE:	PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 220+00 TO 226+00
PROJECT NUMBER:	215615900
SHEET NUMBER:	33 OF 112





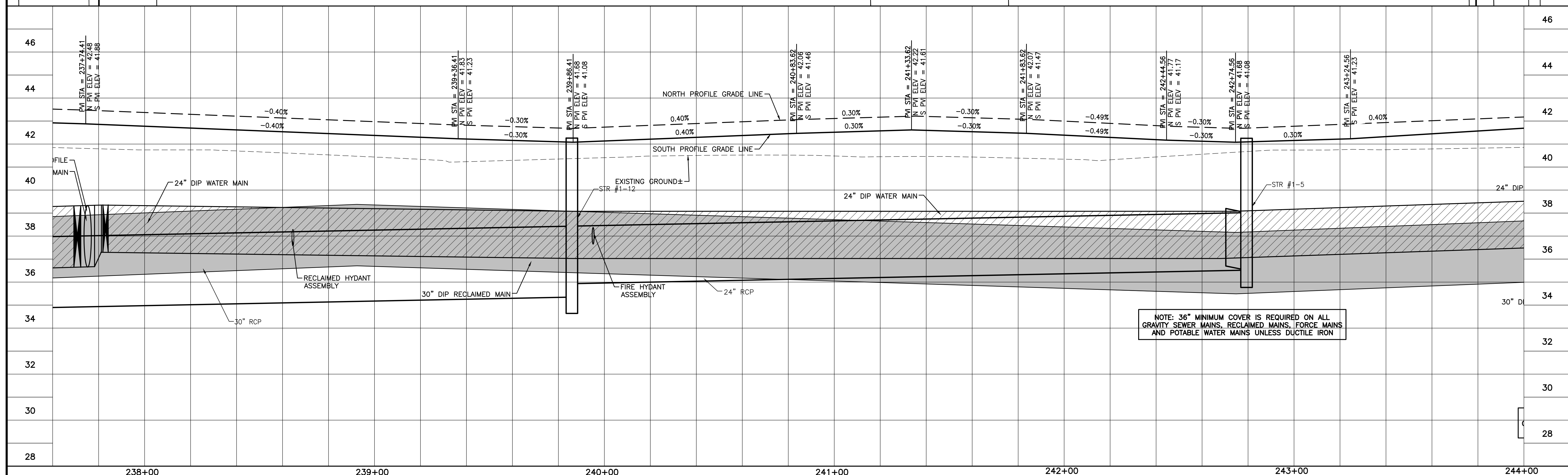
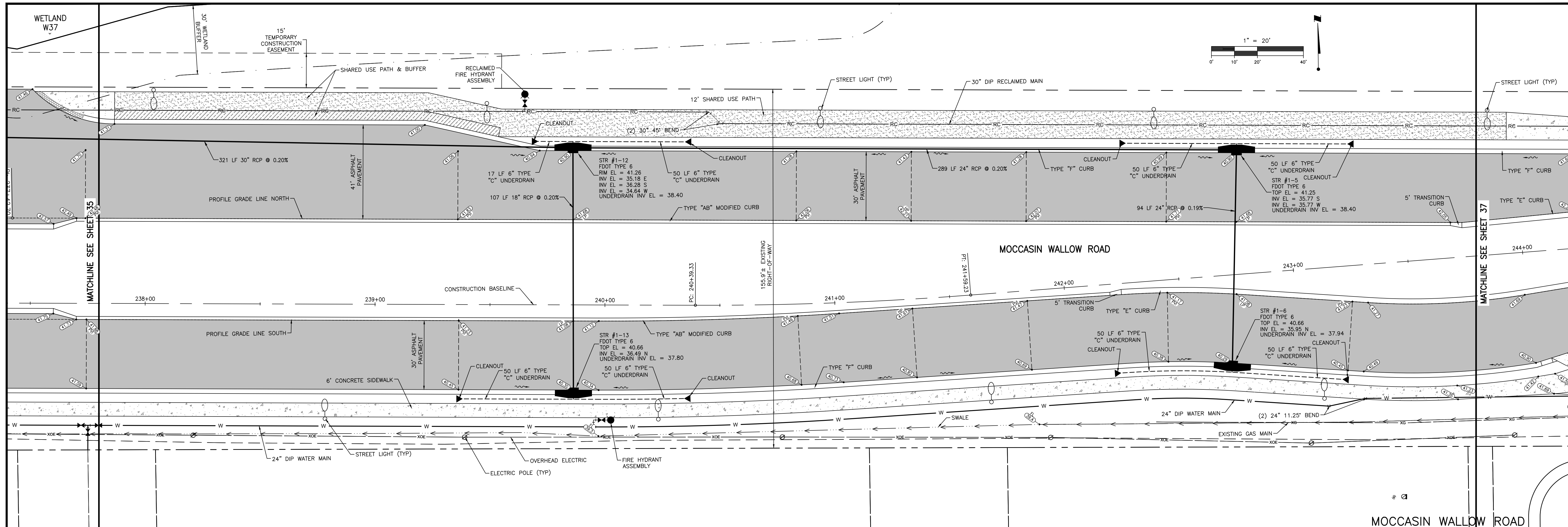
<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>APP</th> </tr> <tr> <td>C</td> <td>11/5/21</td> <td>MSC/98616</td> <td></td> <td></td> </tr> </table>	REV	DATE	BY	CHKD	APP	C	11/5/21	MSC/98616			<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>DRAWN BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:		10/2020	DRAWN BY:		10/2020	CHECKED BY:			CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #2013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020 HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2' SHEET NO.: 33 OF 35 PROJECT NUMBER: 215615900</p>	<p>TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 226+00 TO 232+00</p>	<p>ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-201ST SHEET NUMBER: 34 OF 112</p>
REV	DATE	BY	CHKD	APP																														
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* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12" MINIMUM CLEARANCE FROM ALL PROPOSED UTILITY MAINS

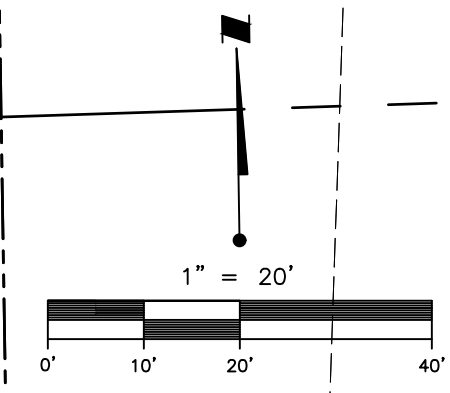
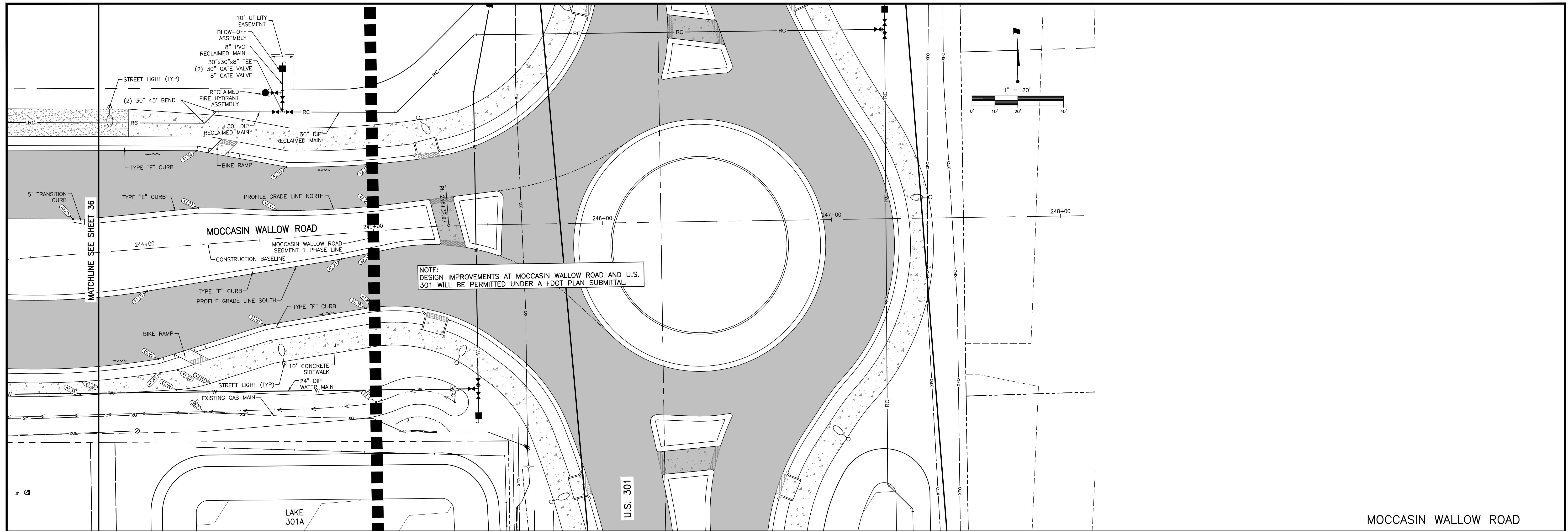
NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

<table border="1"> <tr> <th>NO.</th> <th>REVISION</th> <th>DATE</th> <th>BY / EMP. NO.</th> <th>CHECKED BY / EMP. NO.</th> <th>WM APPROVED BY:</th> </tr> <tr> <td>D</td> <td>REMOVED REDUCERS, REVISED FH, REMOVED 4" RECLAIM & 8" WATER.</td> <td>4/15/22</td> <td>MSC/98616</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>REVISED WATER, RECLAIM, STORM, ADDED DRIVE & TURN LANE</td> <td>11/5/21</td> <td>MSC/98616</td> <td></td> <td></td> </tr> </table>	NO.	REVISION	DATE	BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	D	REMOVED REDUCERS, REVISED FH, REMOVED 4" RECLAIM & 8" WATER.	4/15/22	MSC/98616			C	REVISED WATER, RECLAIM, STORM, ADDED DRIVE & TURN LANE	11/5/21	MSC/98616			<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>DRAWN BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:		10/2020	DRAWN BY:		10/2020	CHECKED BY:			CONTRACT ADMIN. BY:			<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #2013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT</p> <p>PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020</p> <p>HORIZONTAL SCALE: 1" = 20'</p> <p>VERTICAL SCALE: 1" = 2'</p> <p>SHEET NO.: 35 OF 112</p>	<p>TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 232+00 TO 238+00</p> <p>PROJECT NUMBER: 215615900</p> <p>SHEET NUMBER: 35 OF 112</p>
NO.	REVISION	DATE	BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																																	
D	REMOVED REDUCERS, REVISED FH, REMOVED 4" RECLAIM & 8" WATER.	4/15/22	MSC/98616																																			
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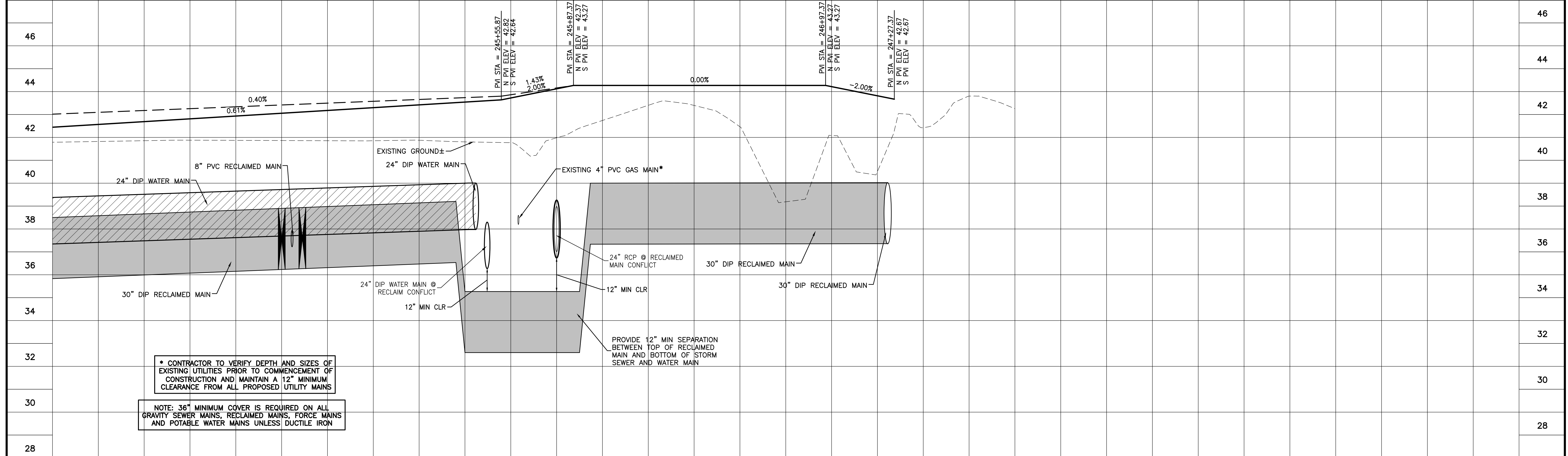


NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

<table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>BY</th> <th>CHKD</th> <th>APPV</th> <th>DESCRIPTION</th> </tr> <tr> <td>D</td> <td>4/15/22</td> <td>MSC/98616</td> <td></td> <td></td> <td>REMOVED REDUCERS, REVISED FH.</td> </tr> <tr> <td>C</td> <td>11/5/21</td> <td>MSC/98616</td> <td></td> <td></td> <td>REVISED WATER, RECLAIM, STORM, ADDED DRIVE & TURN LANE</td> </tr> </table>	REV	DATE	BY	CHKD	APPV	DESCRIPTION	D	4/15/22	MSC/98616			REMOVED REDUCERS, REVISED FH.	C	11/5/21	MSC/98616			REVISED WATER, RECLAIM, STORM, ADDED DRIVE & TURN LANE	<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>DRAWN BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:		10/2020	DRAWN BY:		10/2020	CHECKED BY:			CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT</p> <p>PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020</p> <p>HORIZONTAL SCALE: 1" = 20'</p> <p>VERTICAL SCALE: 1" = 2'</p> <p>SHEET NO: 36 OF 112</p>	<p>TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 238+00 TO 244+00</p> <p>PROJECT NUMBER: 215615900</p> <p>CROSS REFERENCE FILE NO.: 215615900-01C-201ST</p>
REV	DATE	BY	CHKD	APPV	DESCRIPTION																																				
D	4/15/22	MSC/98616			REMOVED REDUCERS, REVISED FH.																																				
C	11/5/21	MSC/98616			REVISED WATER, RECLAIM, STORM, ADDED DRIVE & TURN LANE																																				
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MOCCASIN WALLOW ROAD



* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12\"/>

NOTE: 36\"/>

PVI STA = 245+55.87 N PVI ELEV = 42.82 S PVI ELEV = 42.64	1.43% 2.00%	PVI STA = 245+87.37 N PVI ELEV = 42.37 S PVI ELEV = 43.27	0.00%	PVI STA = 246+97.37 N PVI ELEV = 43.27 S PVI ELEV = 43.27	-2.00%	PVI STA = 247+27.37 N PVI ELEV = 42.67 S PVI ELEV = 42.67
-----------------------------------------------------------------	----------------	-----------------------------------------------------------------	-------	-----------------------------------------------------------------	--------	-----------------------------------------------------------------

244+00	245+00	246+00	247+00	248+00
46	44	42	40	38
36	34	32	30	28

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

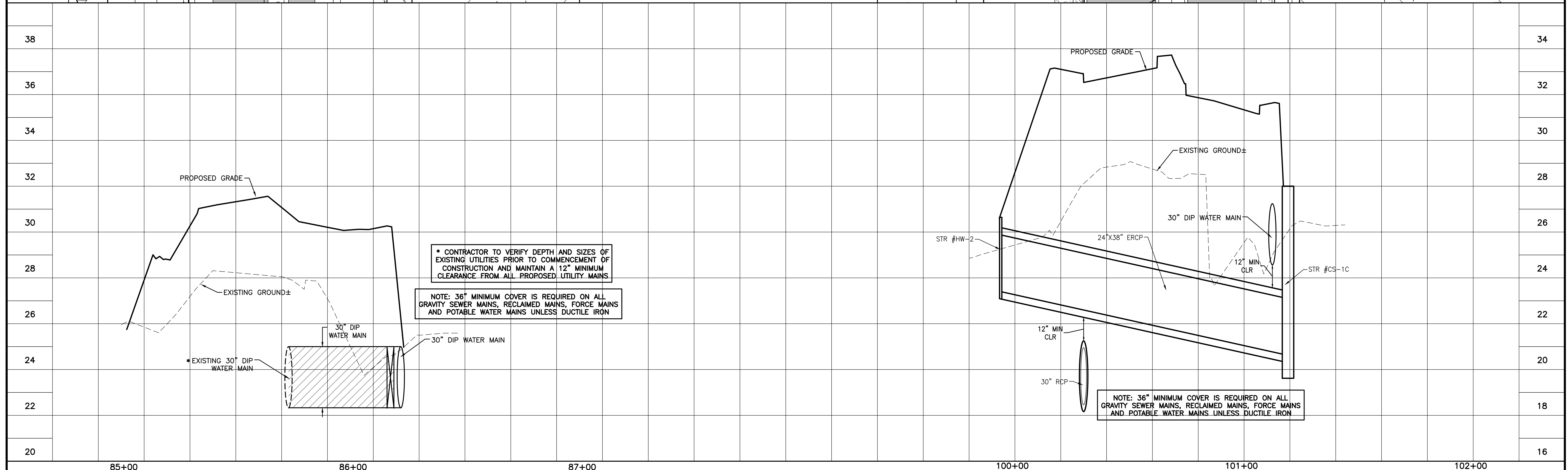
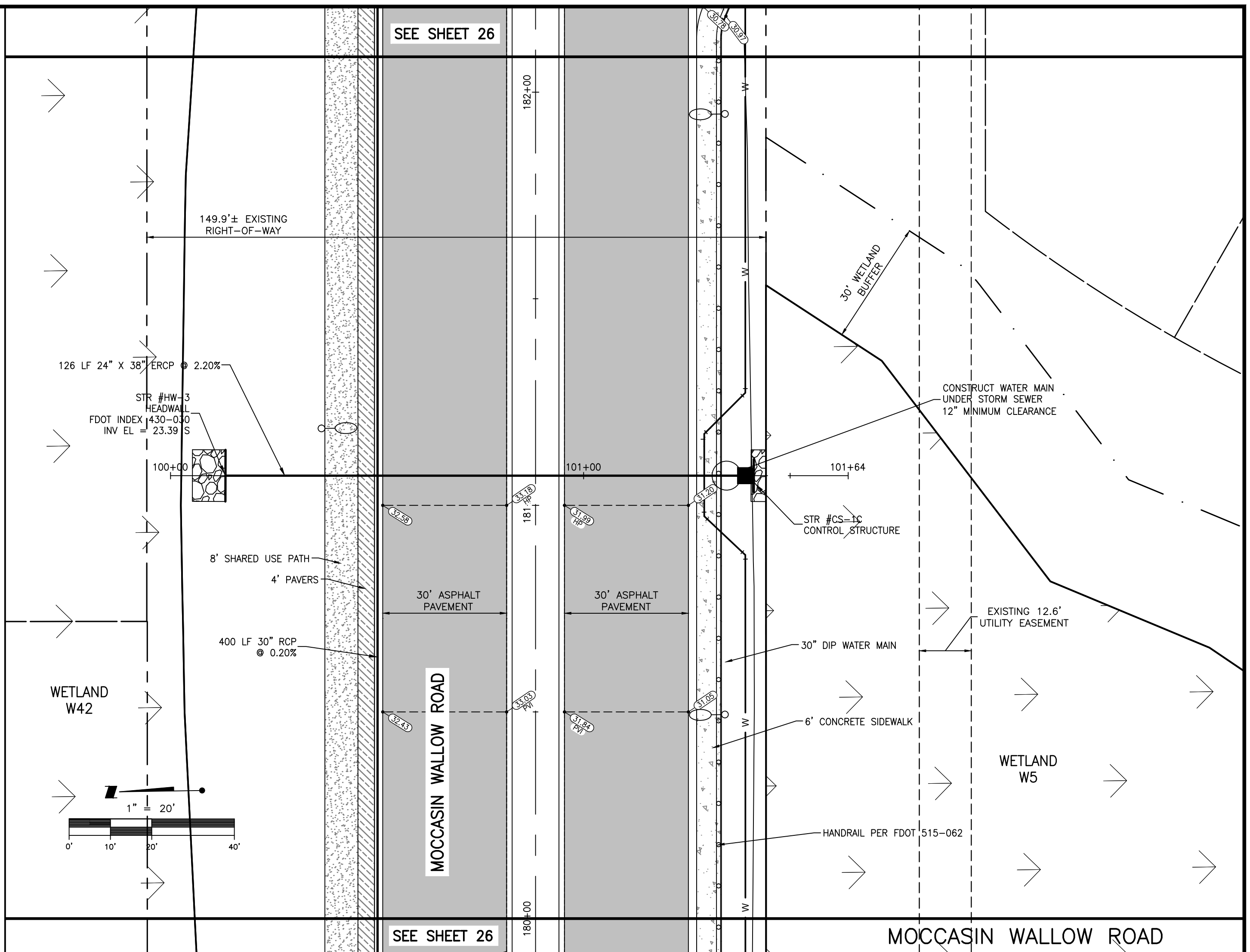
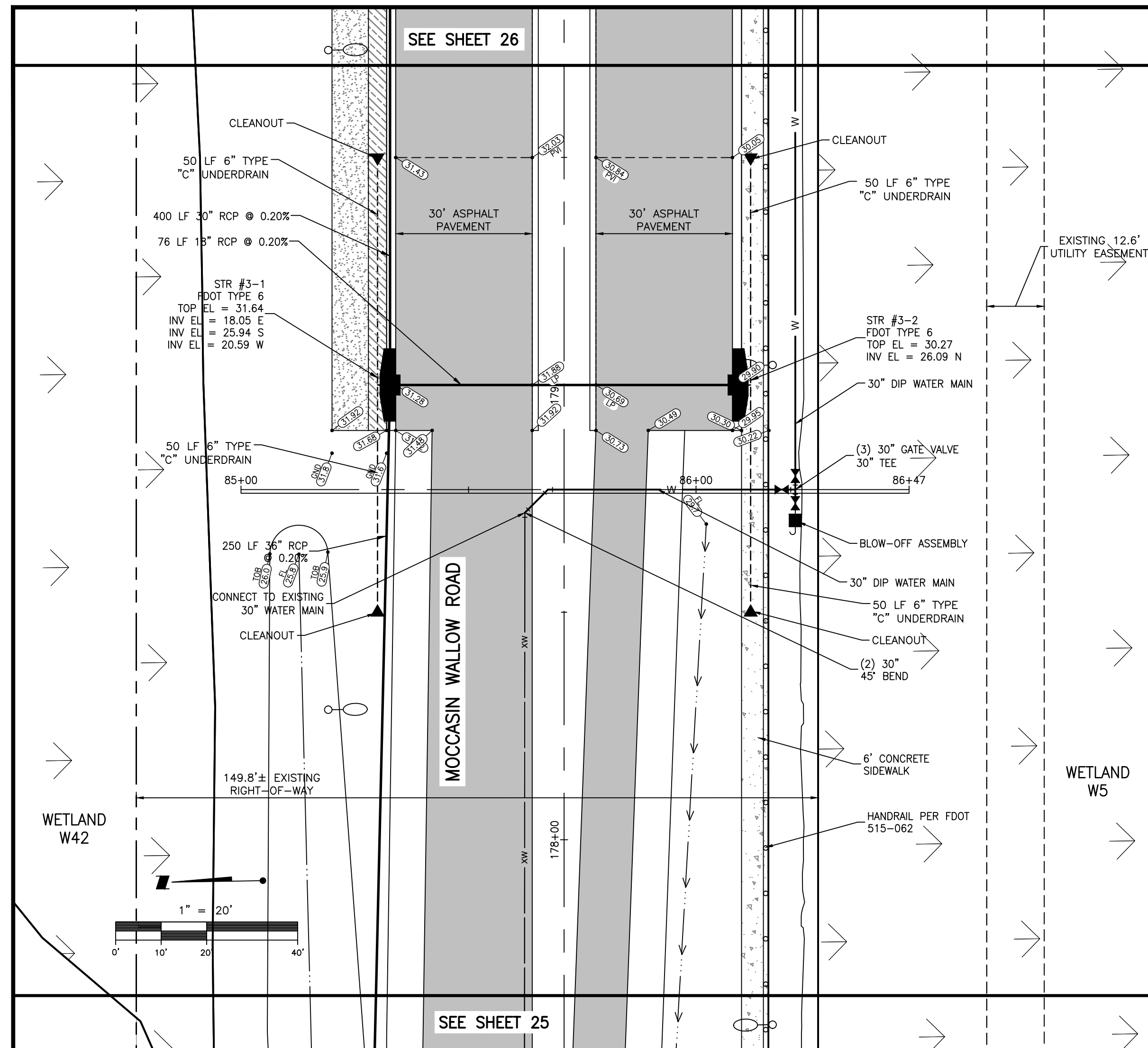
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
HORIZONTAL SCALE: 1" = 20'
VERTICAL SCALE: 1" = 2'
SHEET NO.: 37 OF 112

TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 244+00 TO 249+00
PROJECT NUMBER: 215615900
SHEET NUMBER: 37 OF 112

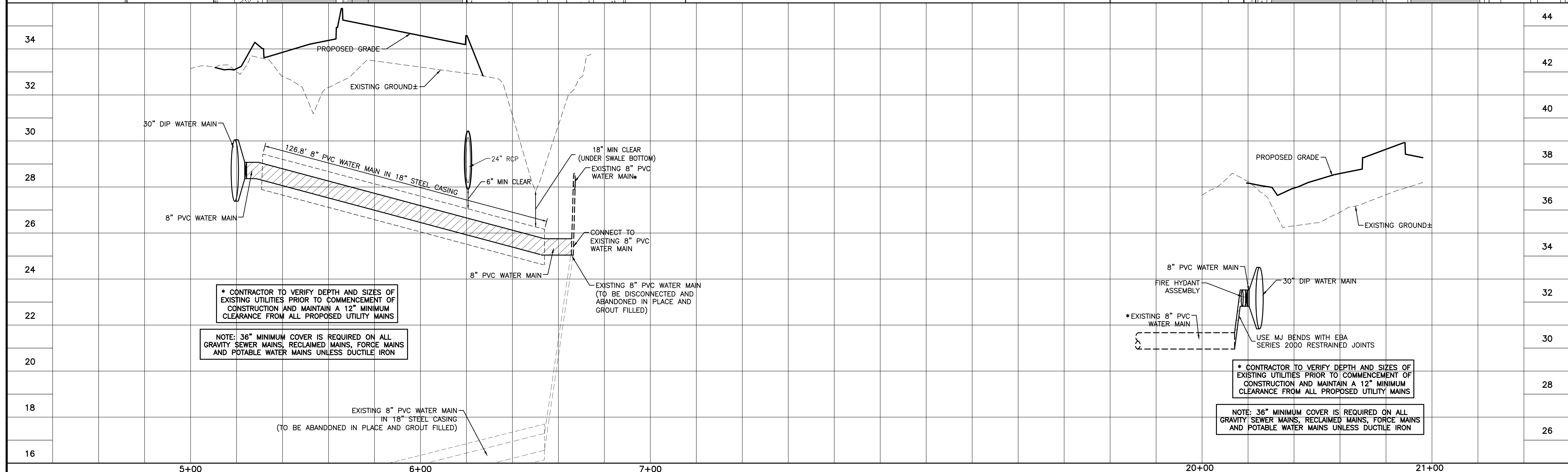
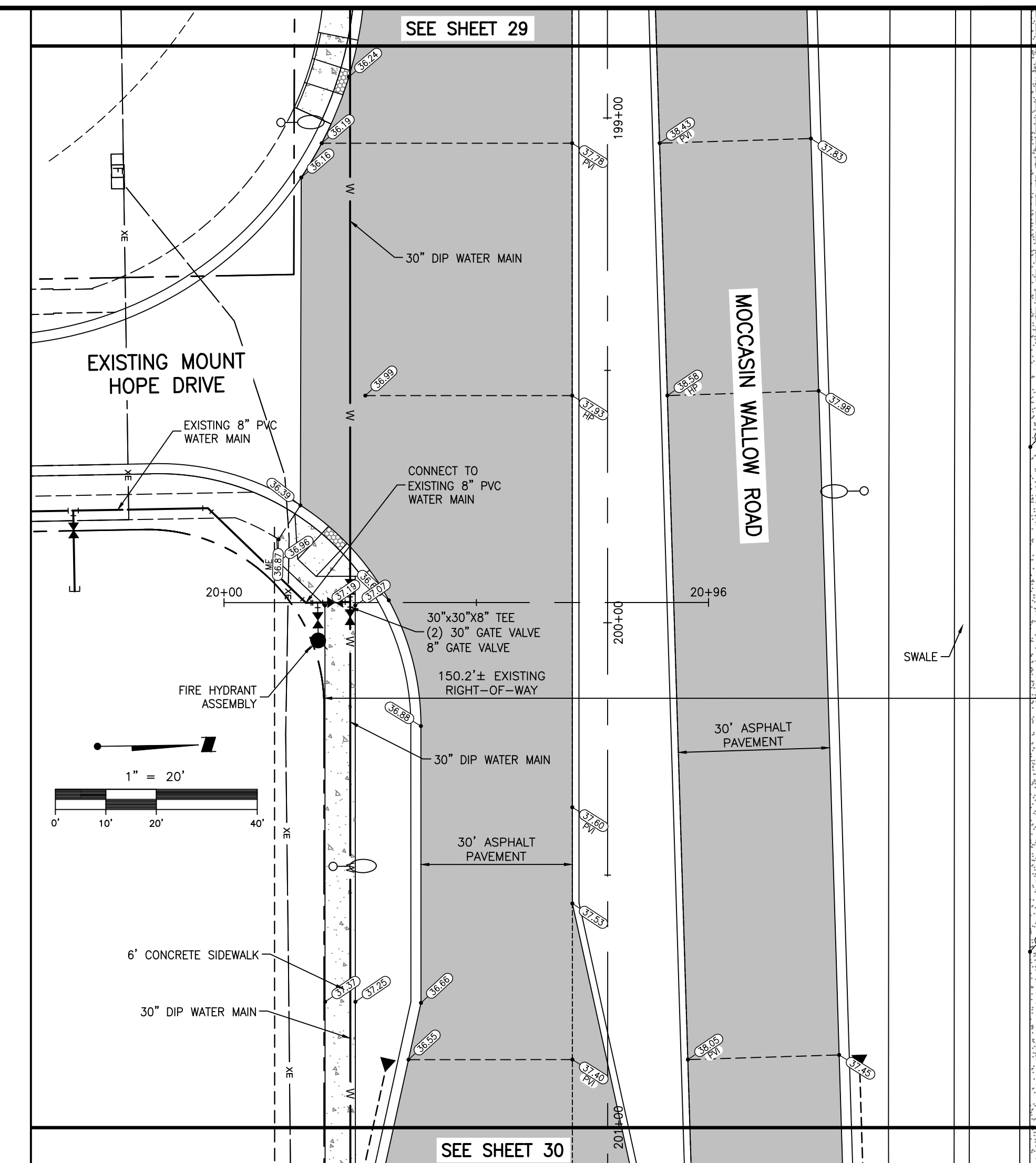
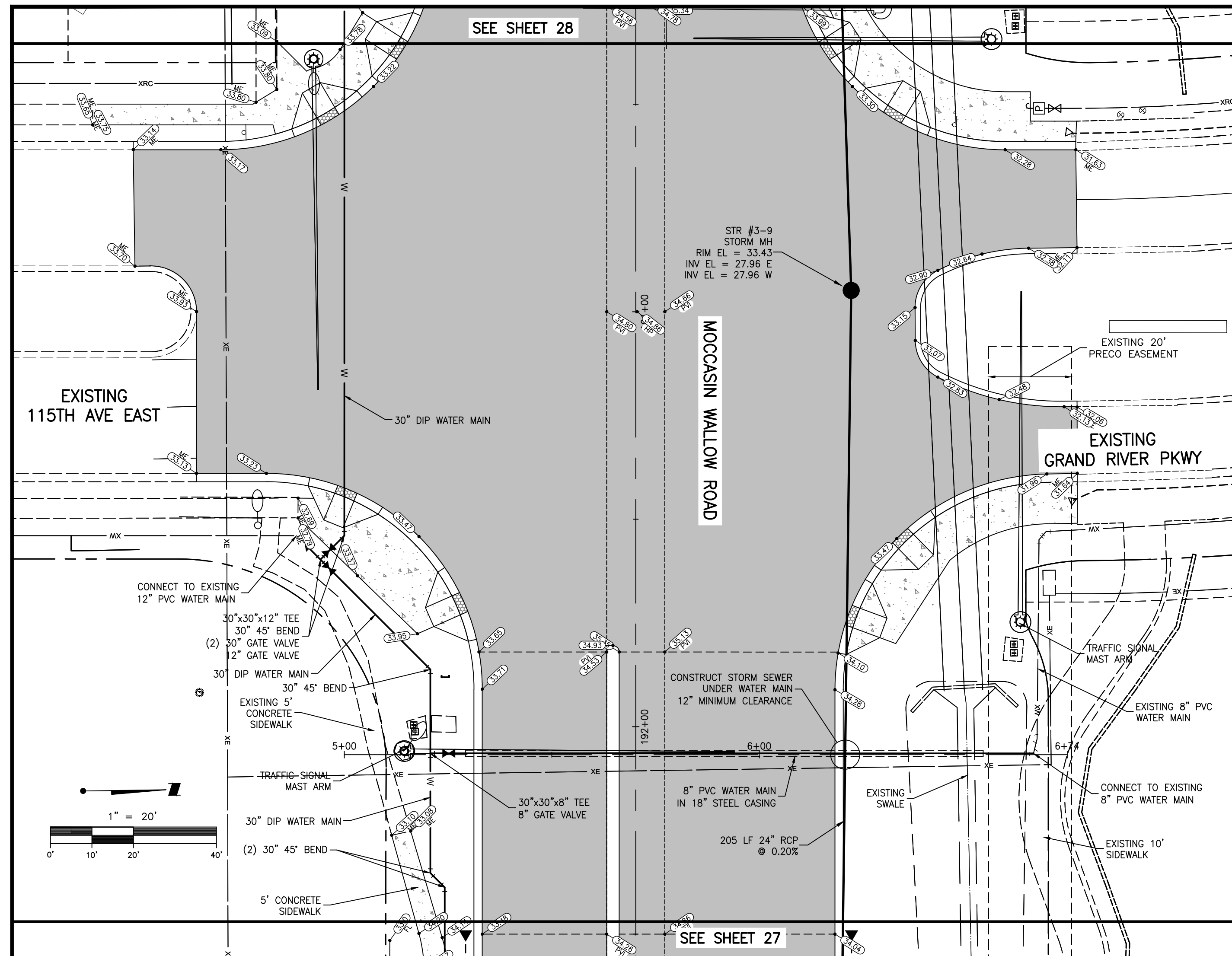


* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12\"/>

NOTE: 36\"/>

NOTE: 36\"/>

<table border="1"> <tr> <th>REV</th> <th>NO.</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>CHECKED</th> </tr> <tr> <td>D</td> <td>1</td> <td>REMOVED REDUCERS</td> <td>4/15/22</td> <td>MSC/98616</td> <td></td> </tr> <tr> <td>C</td> <td>2</td> <td>REVISED WATER</td> <td>11/5/21</td> <td>MSC/98616</td> <td></td> </tr> </table>	REV	NO.	DESCRIPTION	DATE	BY	CHECKED	D	1	REMOVED REDUCERS	4/15/22	MSC/98616		C	2	REVISED WATER	11/5/21	MSC/98616		<table border="1"> <tr> <th>ACTIVITY</th> <th>INITIALS/EMP. NO.</th> <th>DATE</th> </tr> <tr> <td>DESIGNED BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>DRAWN BY:</td> <td></td> <td>10/2020</td> </tr> <tr> <td>CHECKED BY:</td> <td></td> <td></td> </tr> <tr> <td>CONTRACT ADMIN. BY:</td> <td></td> <td></td> </tr> <tr> <td>WM APPROVED BY:</td> <td></td> <td></td> </tr> </table>	ACTIVITY	INITIALS/EMP. NO.	DATE	DESIGNED BY:		10/2020	DRAWN BY:		10/2020	CHECKED BY:			CONTRACT ADMIN. BY:			WM APPROVED BY:			<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	<p>CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1</p>	<p>DATE: 10/2020 HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 2'</p>	<p>TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 85+00 TO 87+00 & STA 100+00 TO 102+00</p>	<p>ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-202ST SHEET NUMBER: 38 OF 112</p>
REV	NO.	DESCRIPTION	DATE	BY	CHECKED																																					
D	1	REMOVED REDUCERS	4/15/22	MSC/98616																																						
C	2	REVISED WATER	11/5/21	MSC/98616																																						
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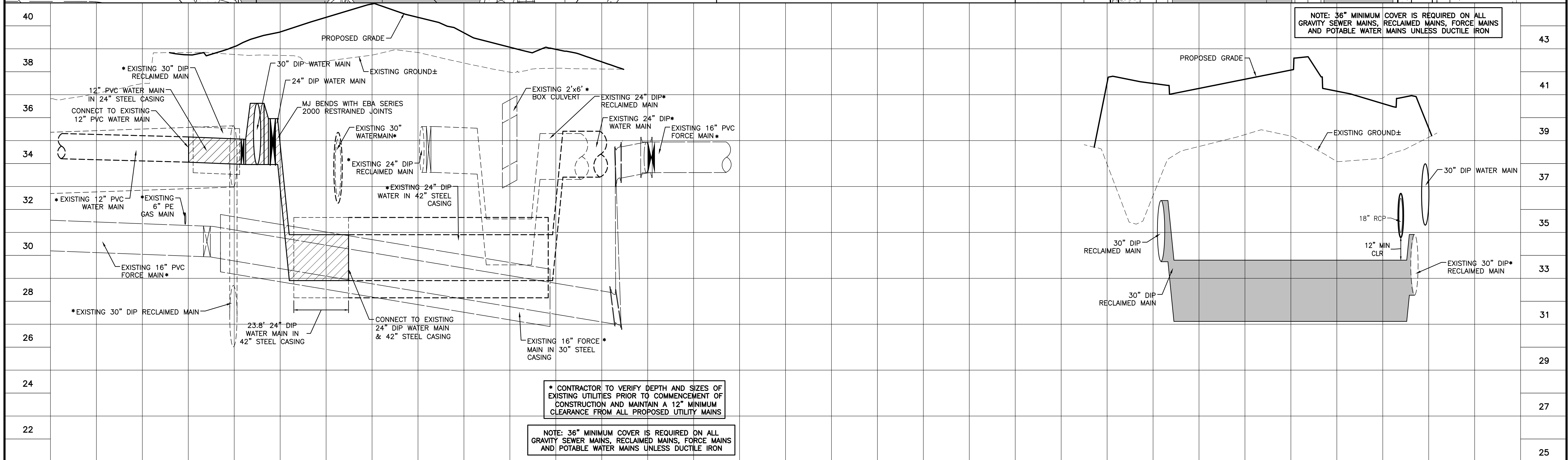
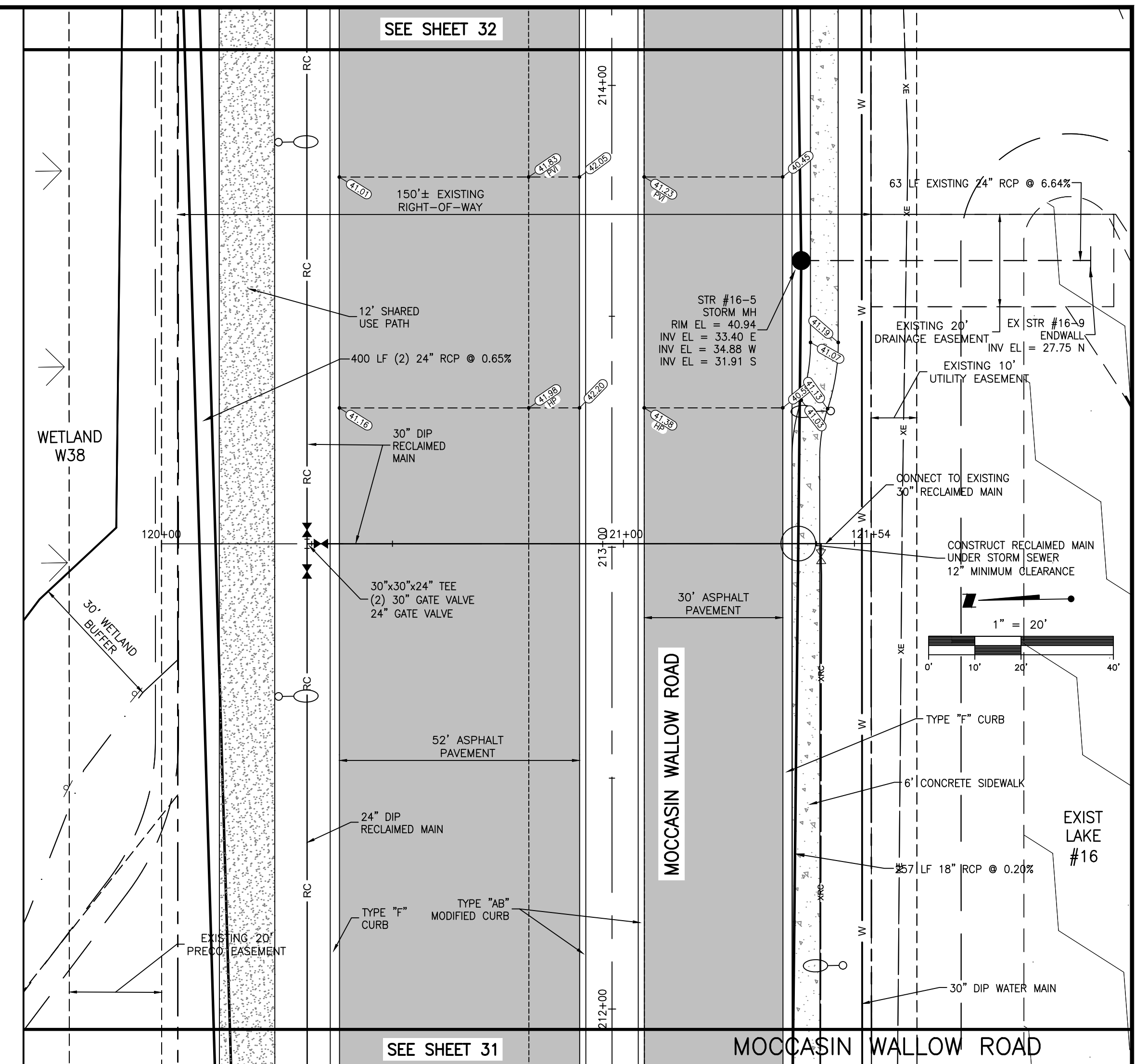
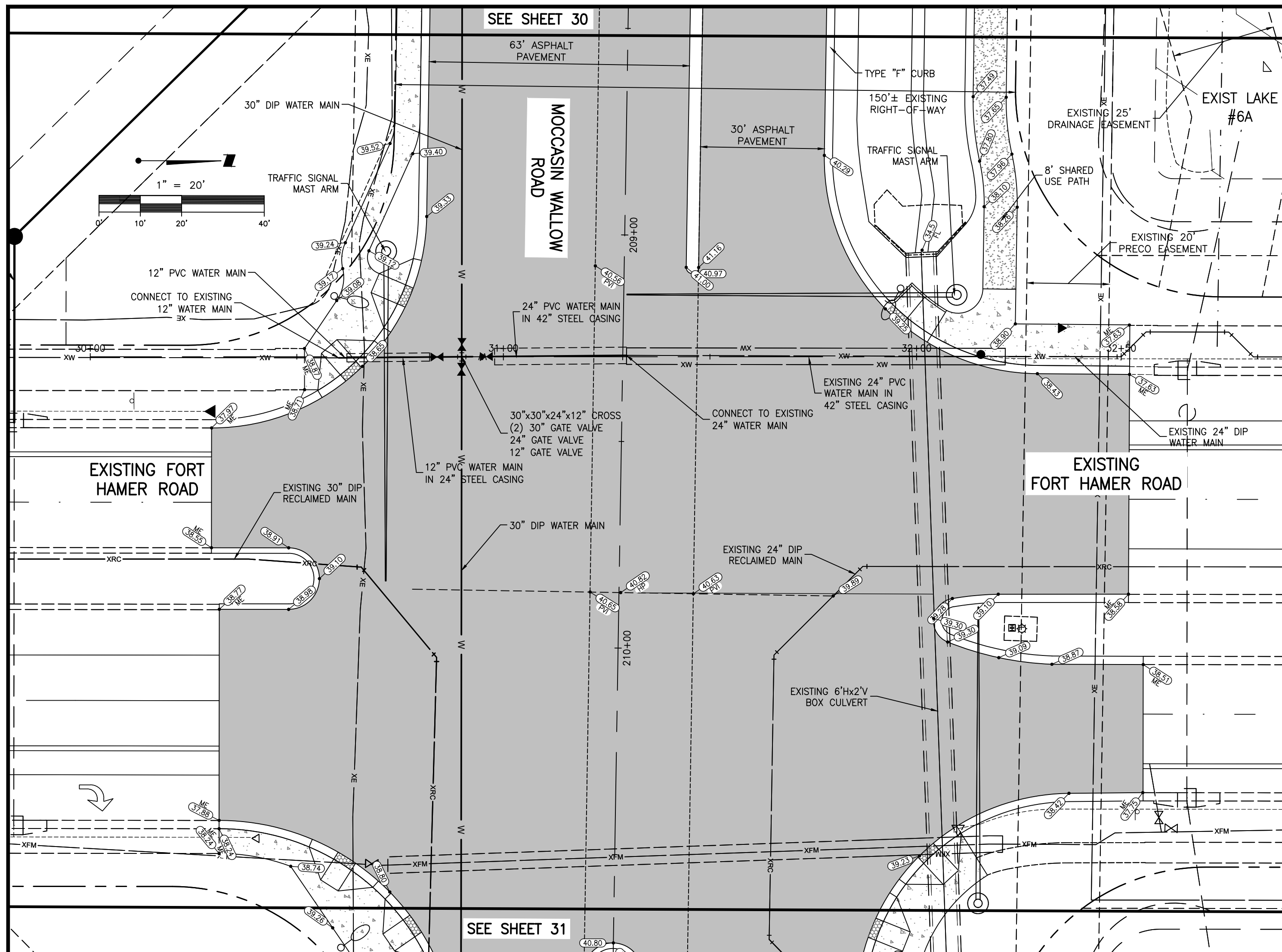
REV	DATE	BY	CHKD	APPV	DESCRIPTION
D	4/15/22	MSC/98616			REMOVED REDUCERS, REMOVED FH, ADDED GV.
C	11/5/21	MSC/98616			REVISED WATER

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1
DATE:	10/2020
HORIZONTAL SCALE:	1" = 20'
VERTICAL SCALE:	1" = 2'
TITLE:	PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 5+00 TO 7+00 & STA 20+00 TO 21+00
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	215615900
SHEET NUMBER:	39 OF 112



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DATE	REVISION	DESCRIPTION	DATE	BY	CHECKED BY	DATE	BY
4/15/22	D	REMOVED REDUCERS, ADDED 24" CASING.	10/2020				
11/5/21	C	REVISED WATER & RECLAIM	10/2020				

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

CLIENT:	PROJECT:	TITLE:
MANATEE COUNTY PUBLIC WORKS DEPARTMENT	MOCCASIN WALLOW ROAD SEGMENT 1	PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 30+00 TO 33+00 & STA 120+00 TO 122+00

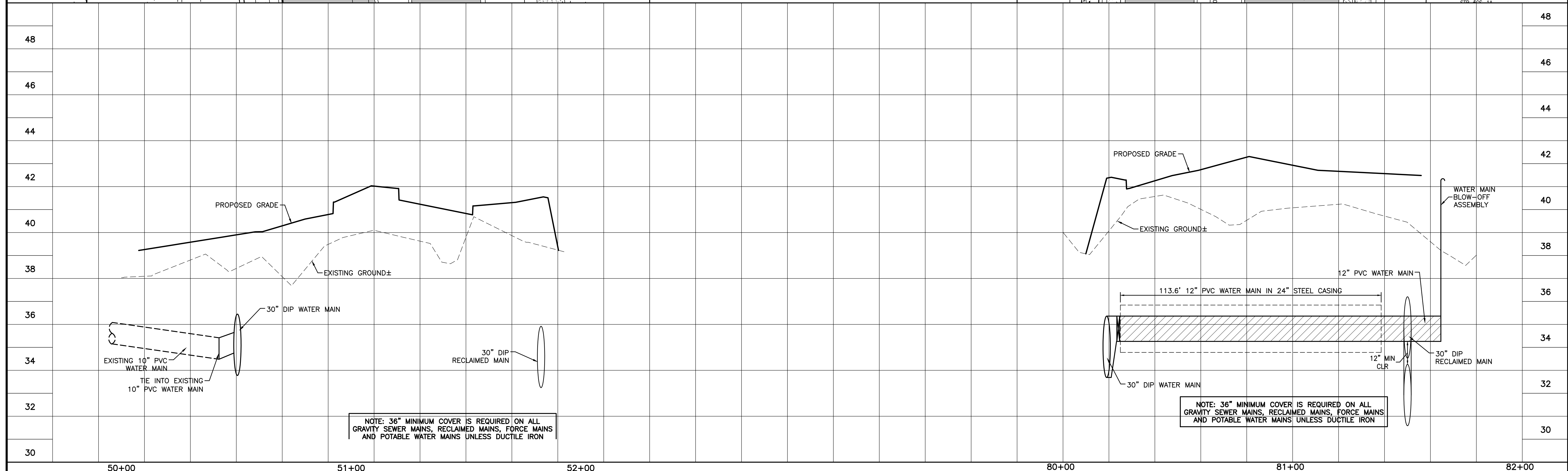
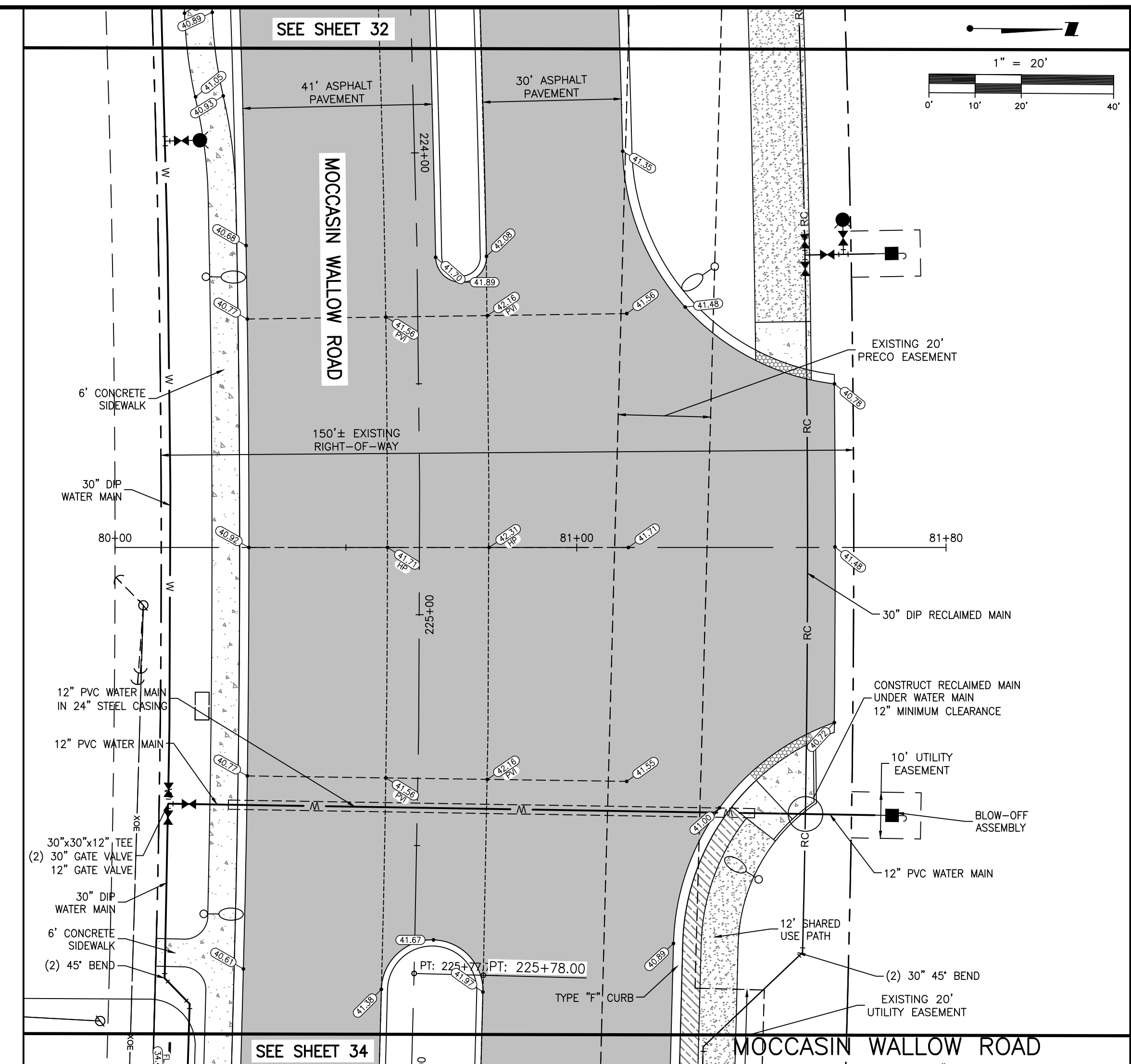
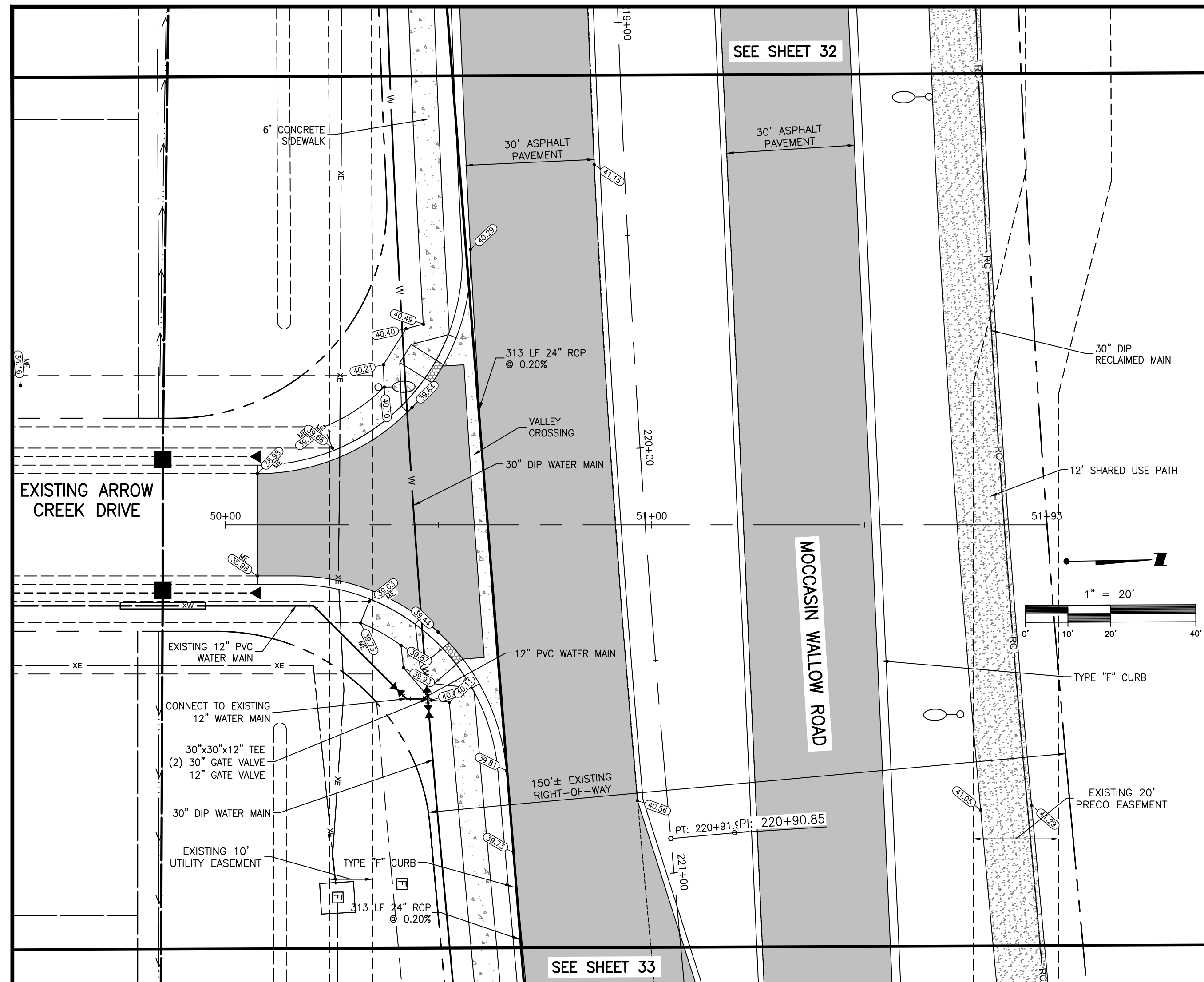
DATE:	HORIZONTAL SCALE:	VERTICAL SCALE:
10/2020	1" = 20'	1" = 2'

PROJECT NUMBER:	SHEET NUMBER:
215615900	40 OF 112



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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REMOVED REDUCERS.	4/15/22	MSC/98616		
C	REVISED WATER	11/5/21	MSC/98616		

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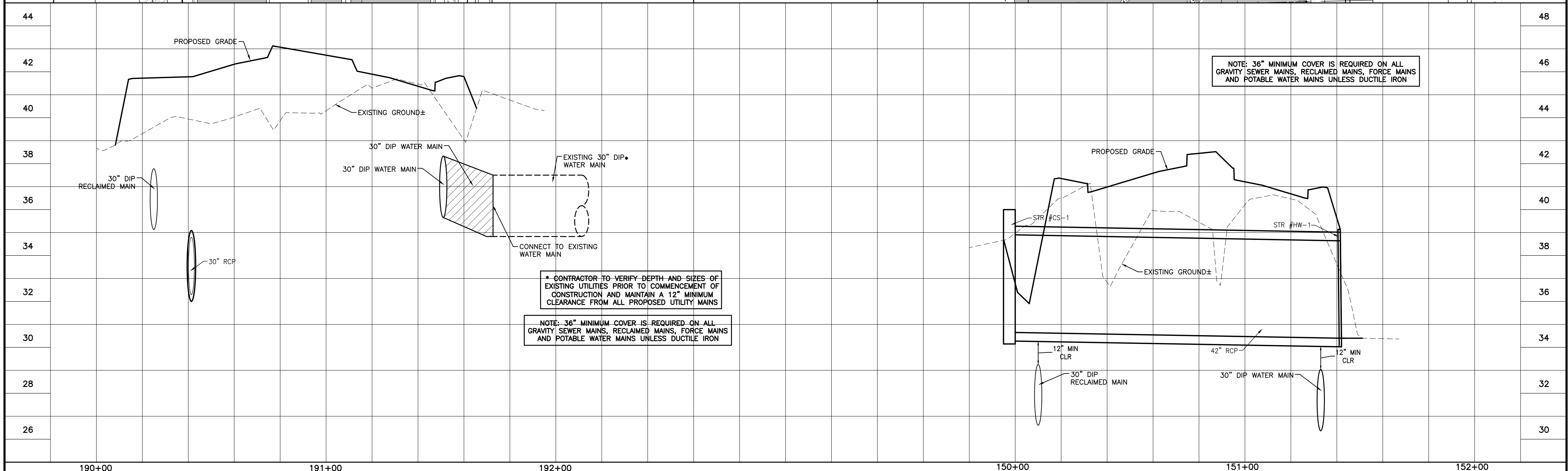
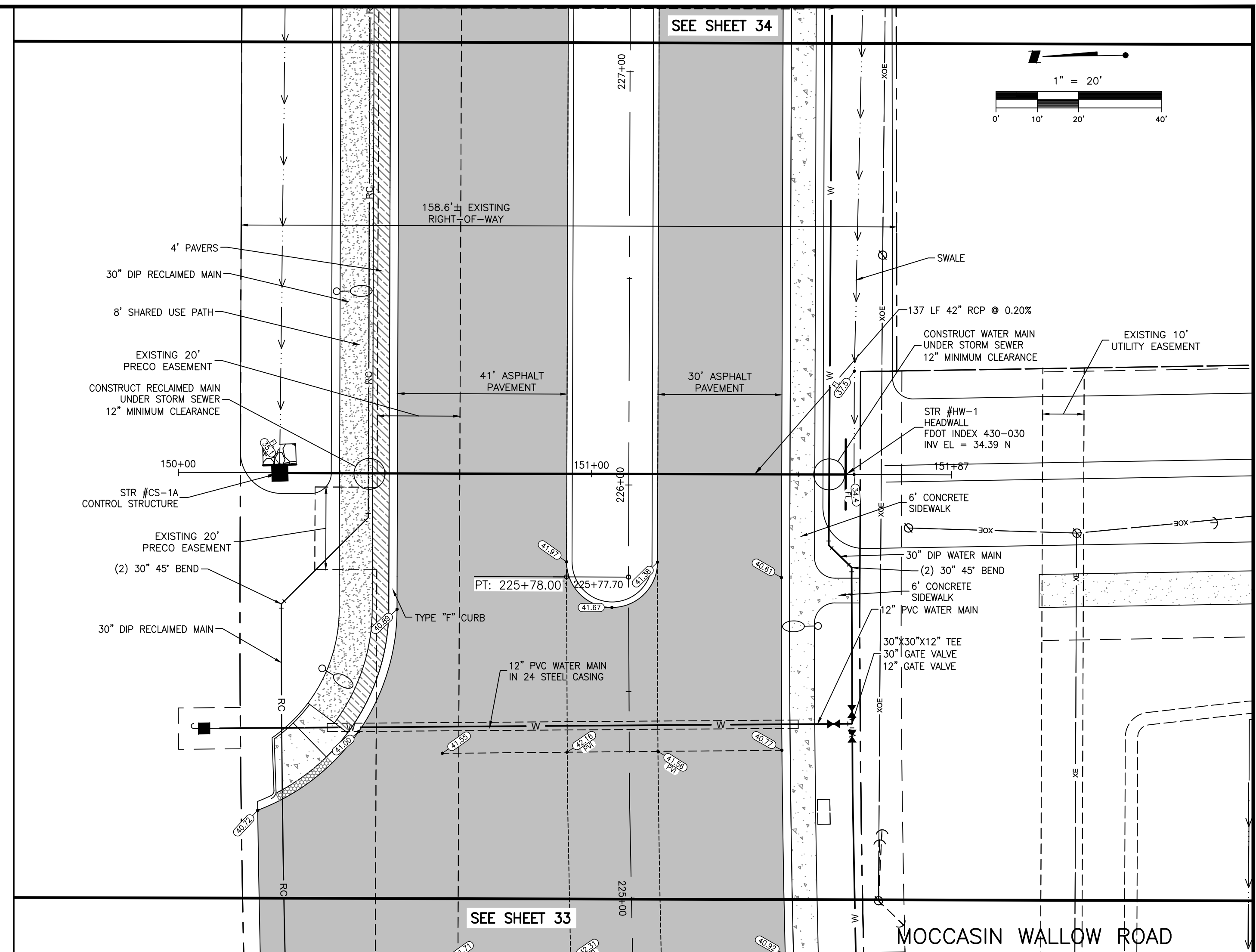
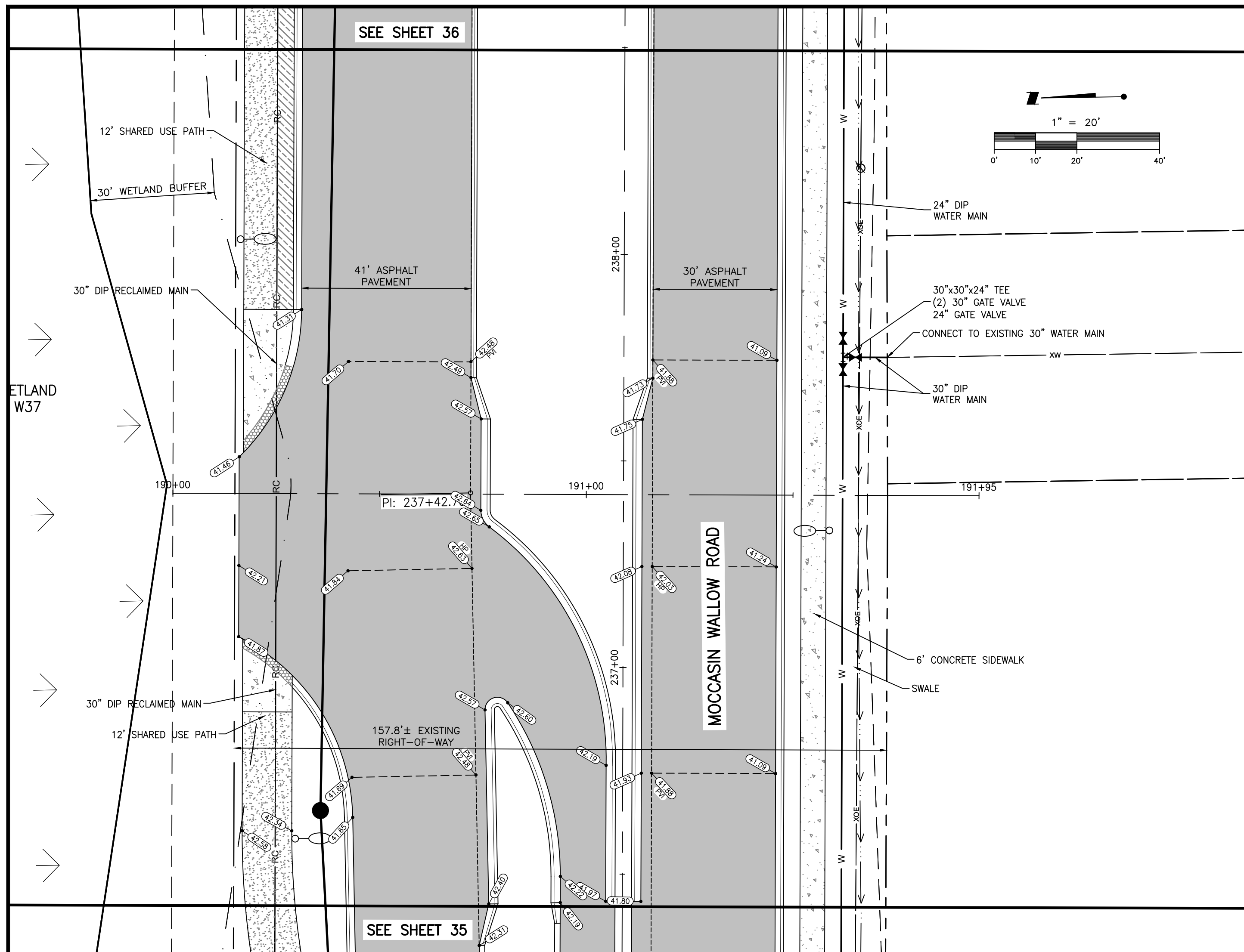
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 2'

TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 50+00 TO 52+00 & STA 80+00 TO 82+00

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-202ST
 SHEET NUMBER: 41 OF 112



* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12\"/>

NOTE: 36\"/>

NOTE: 36\"/>

NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REMOVED REDUCERS, REMOVED 4\"/>	4/15/22	MSC/98616		
C	REVISED WATER & RECLAIM	11/5/21	MSC/98616		

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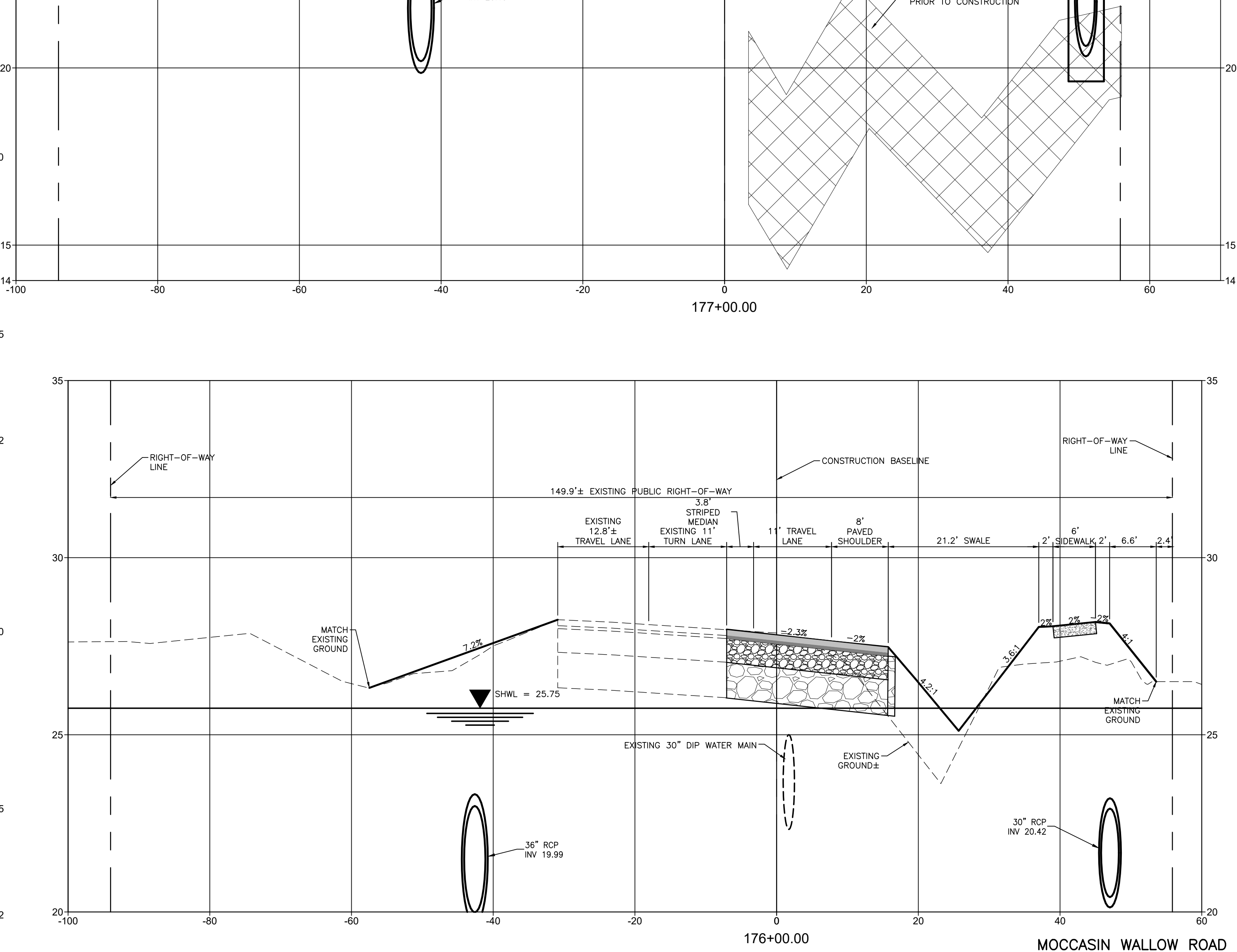
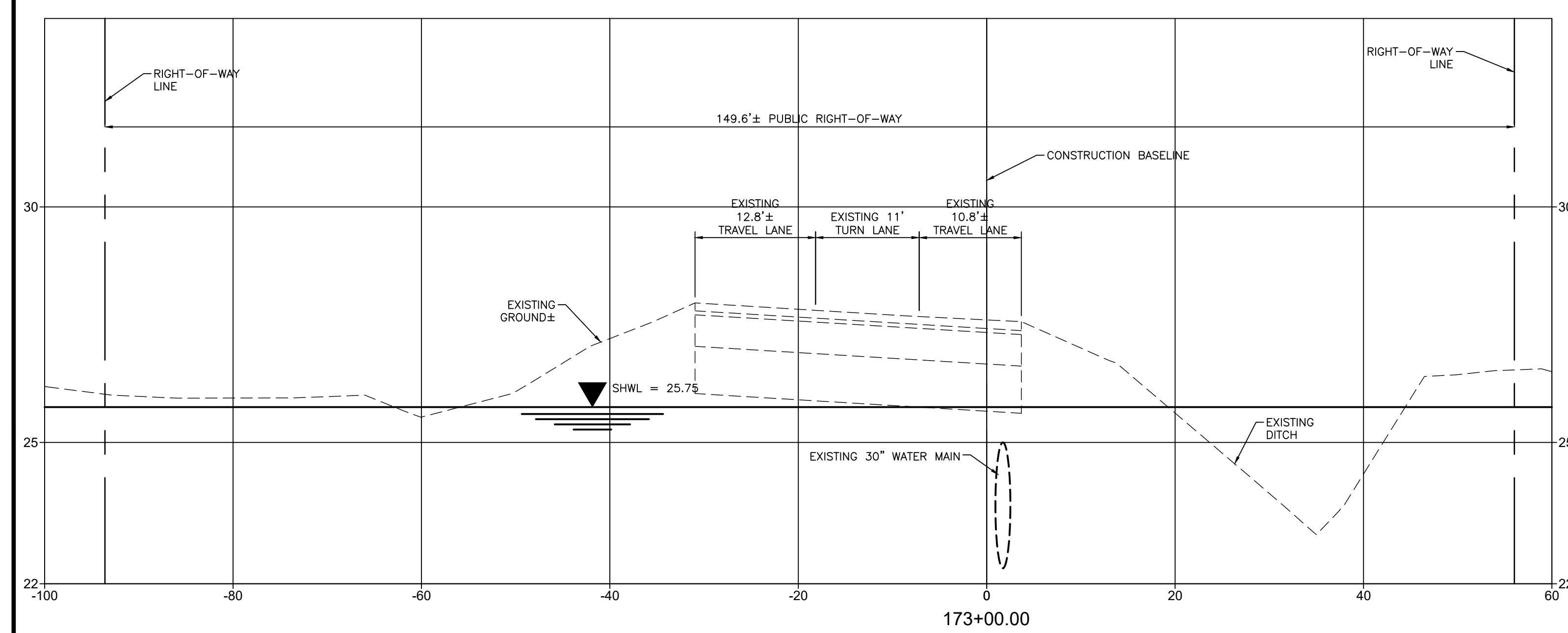
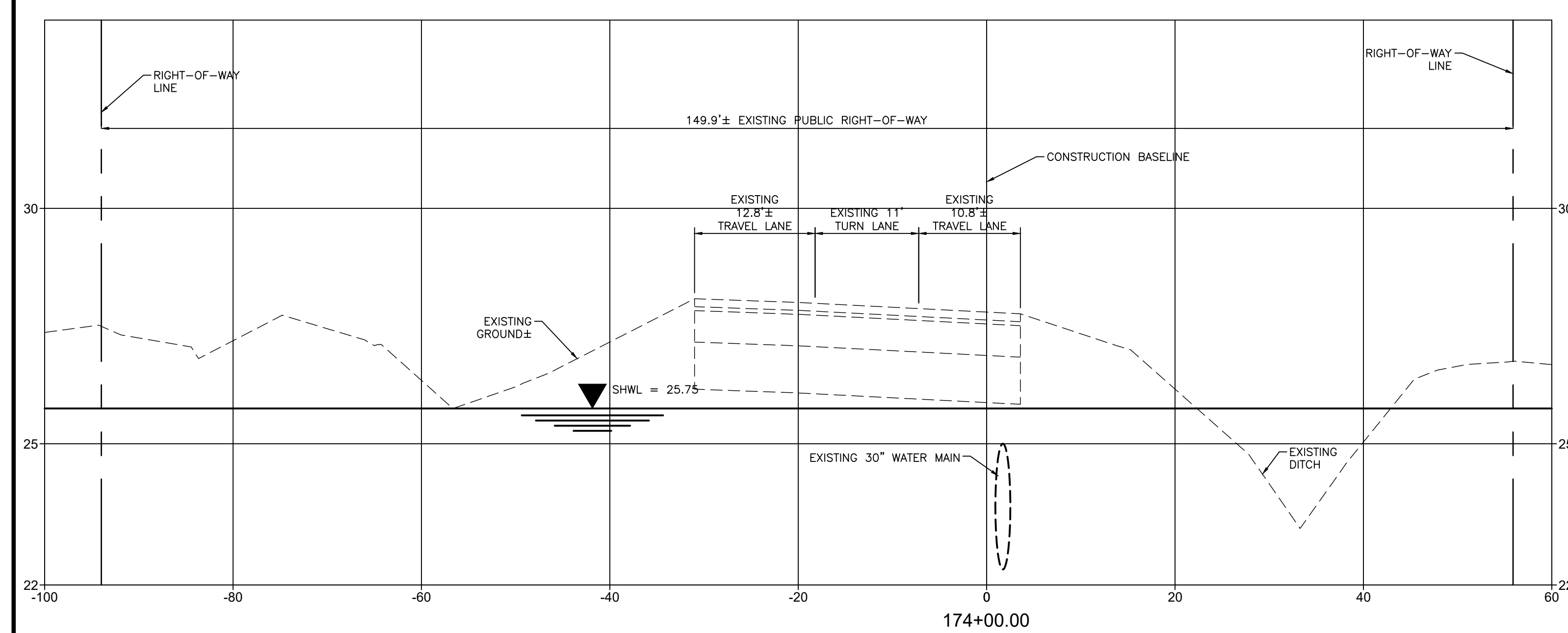
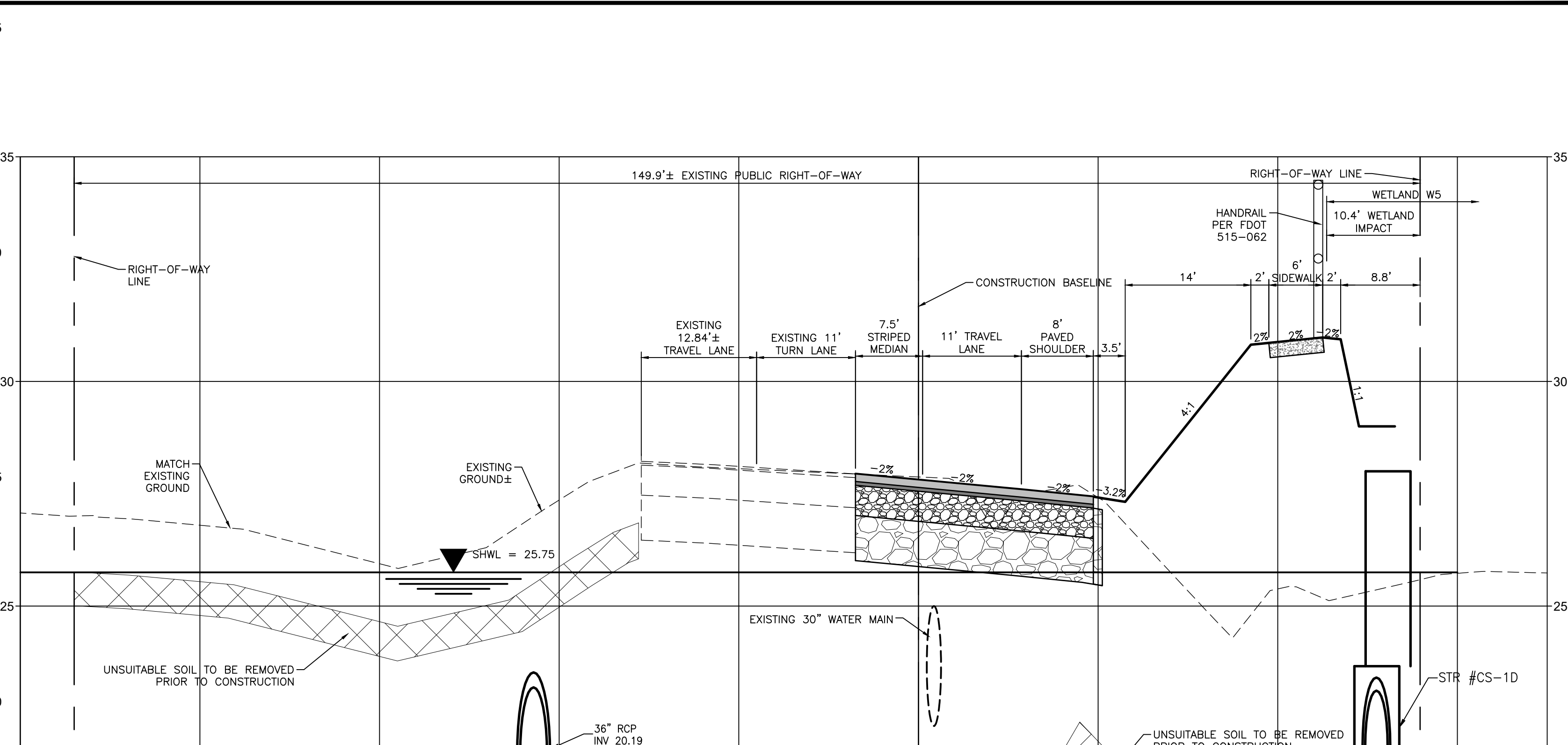
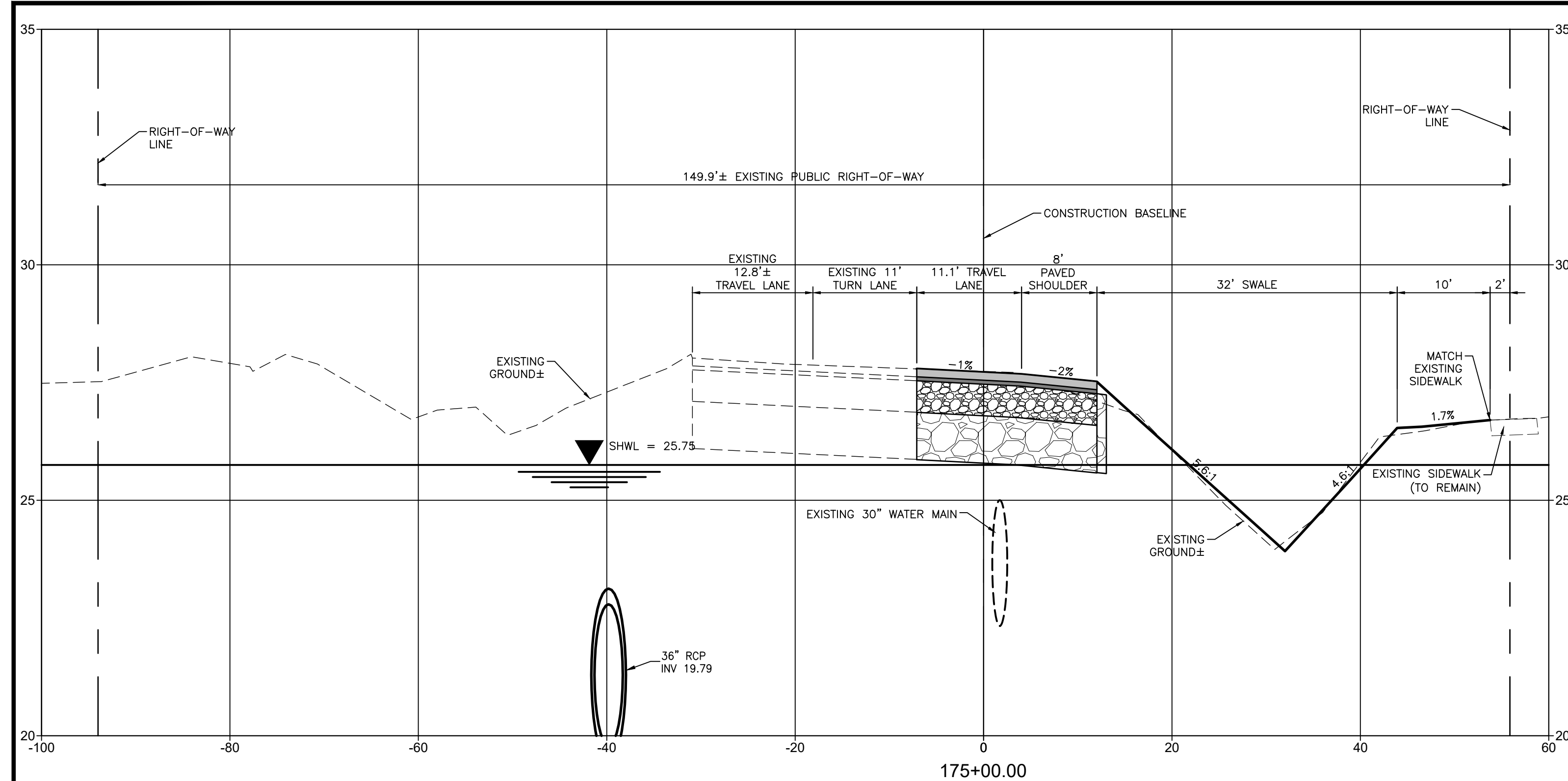
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1\"/>

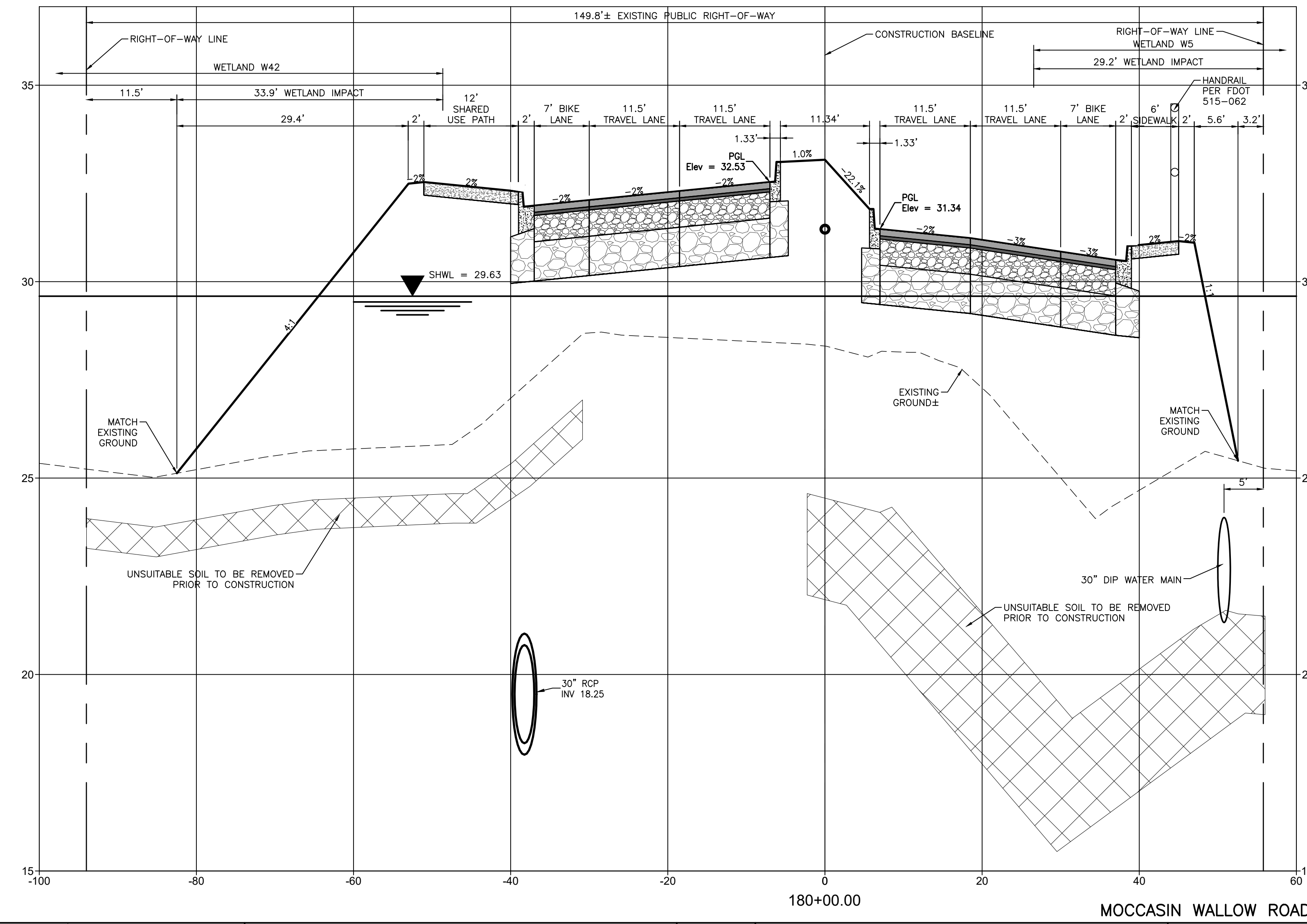
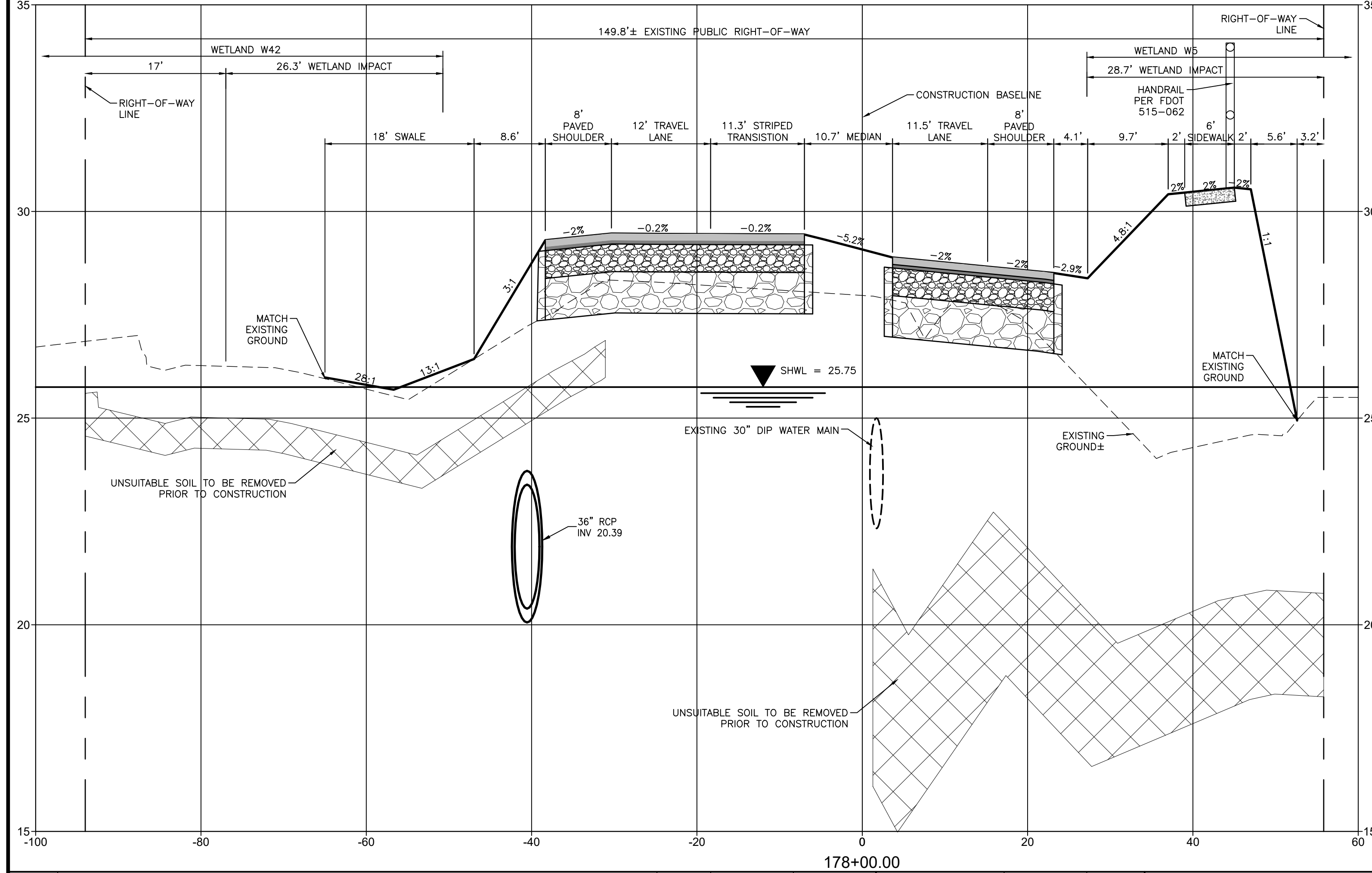
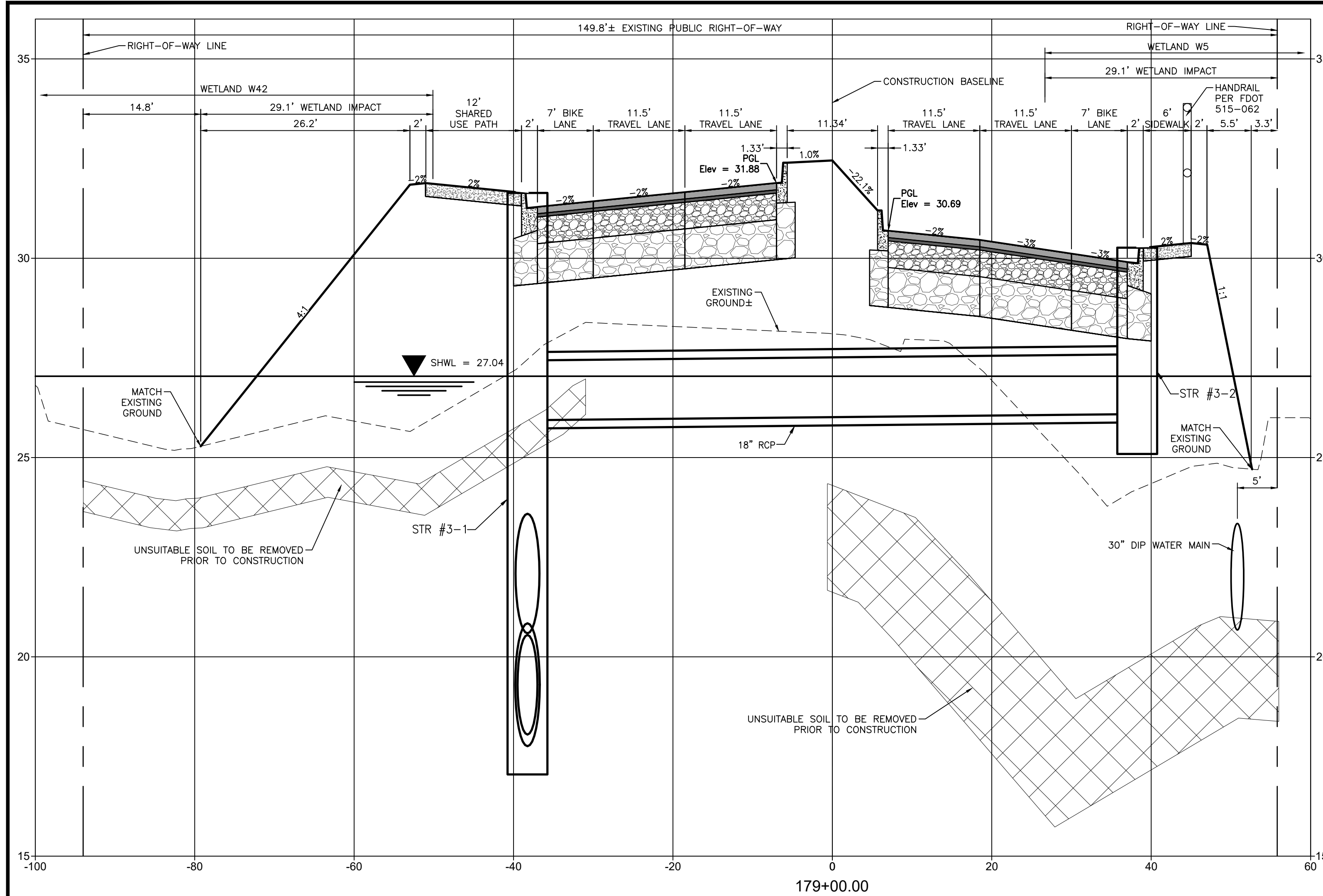
TITLE: PLAN AND PROFILE MOCCASIN WALLOW ROAD STA 150+00 TO 152+00

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-202ST
 SHEET NUMBER: 42 OF 112

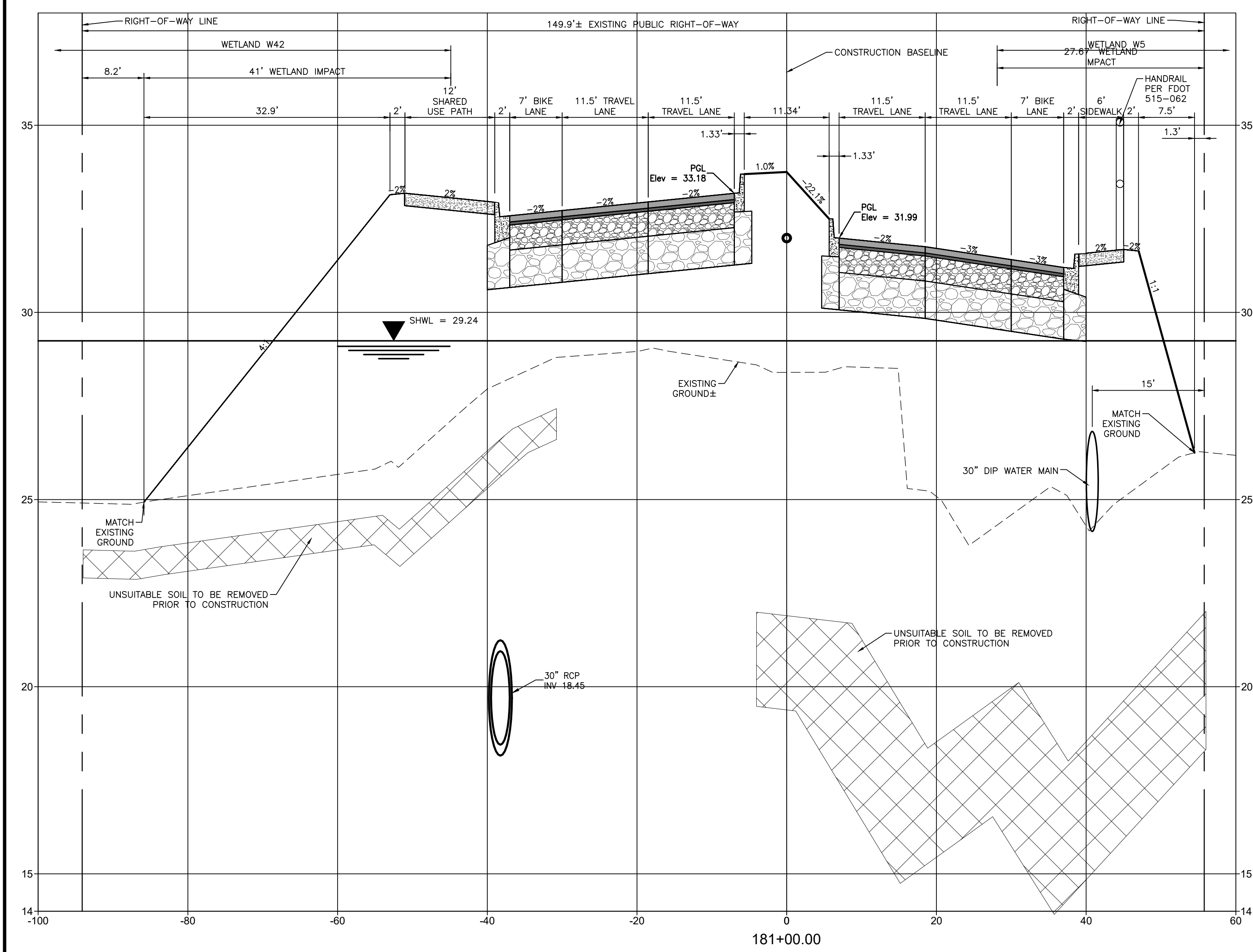
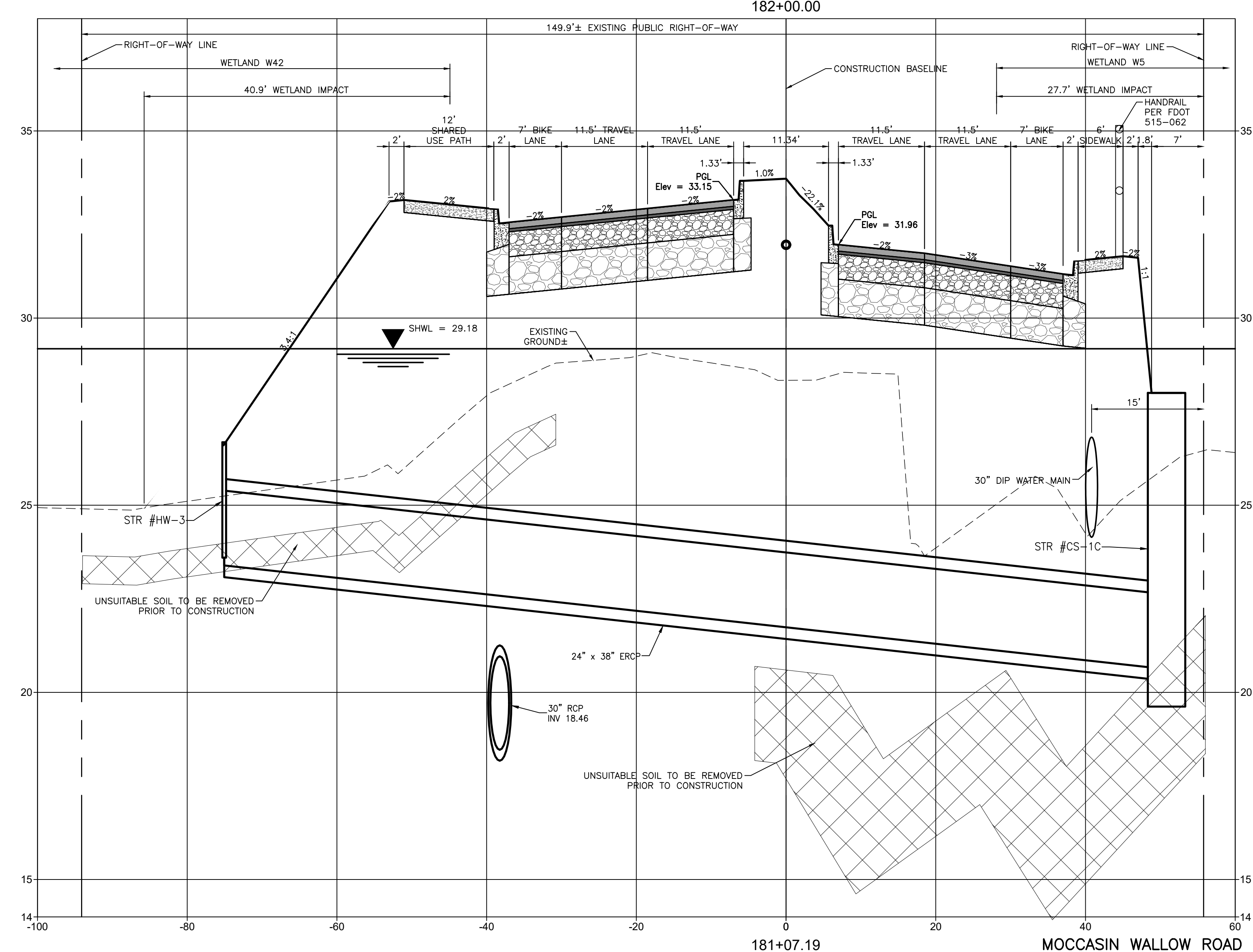
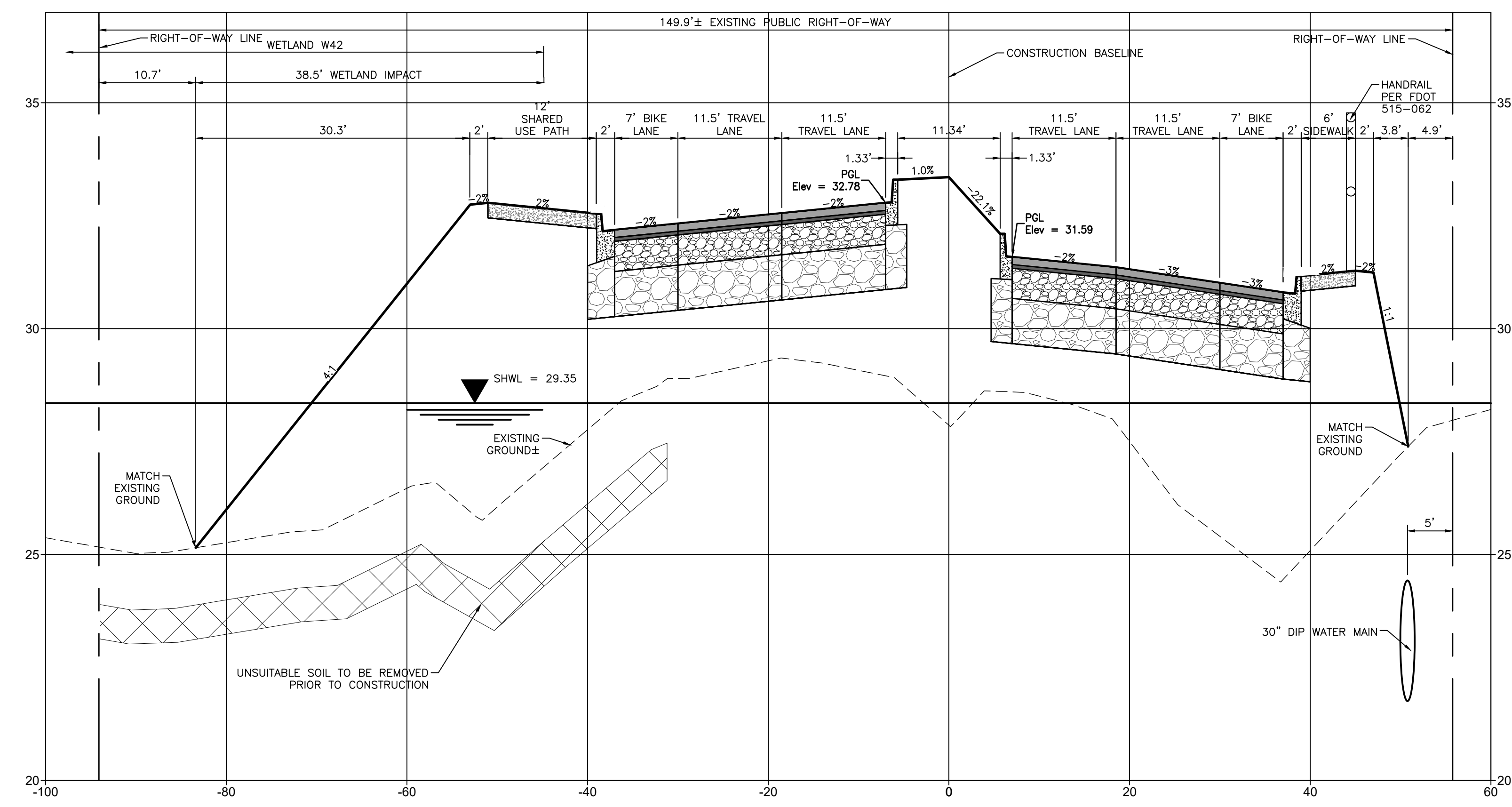


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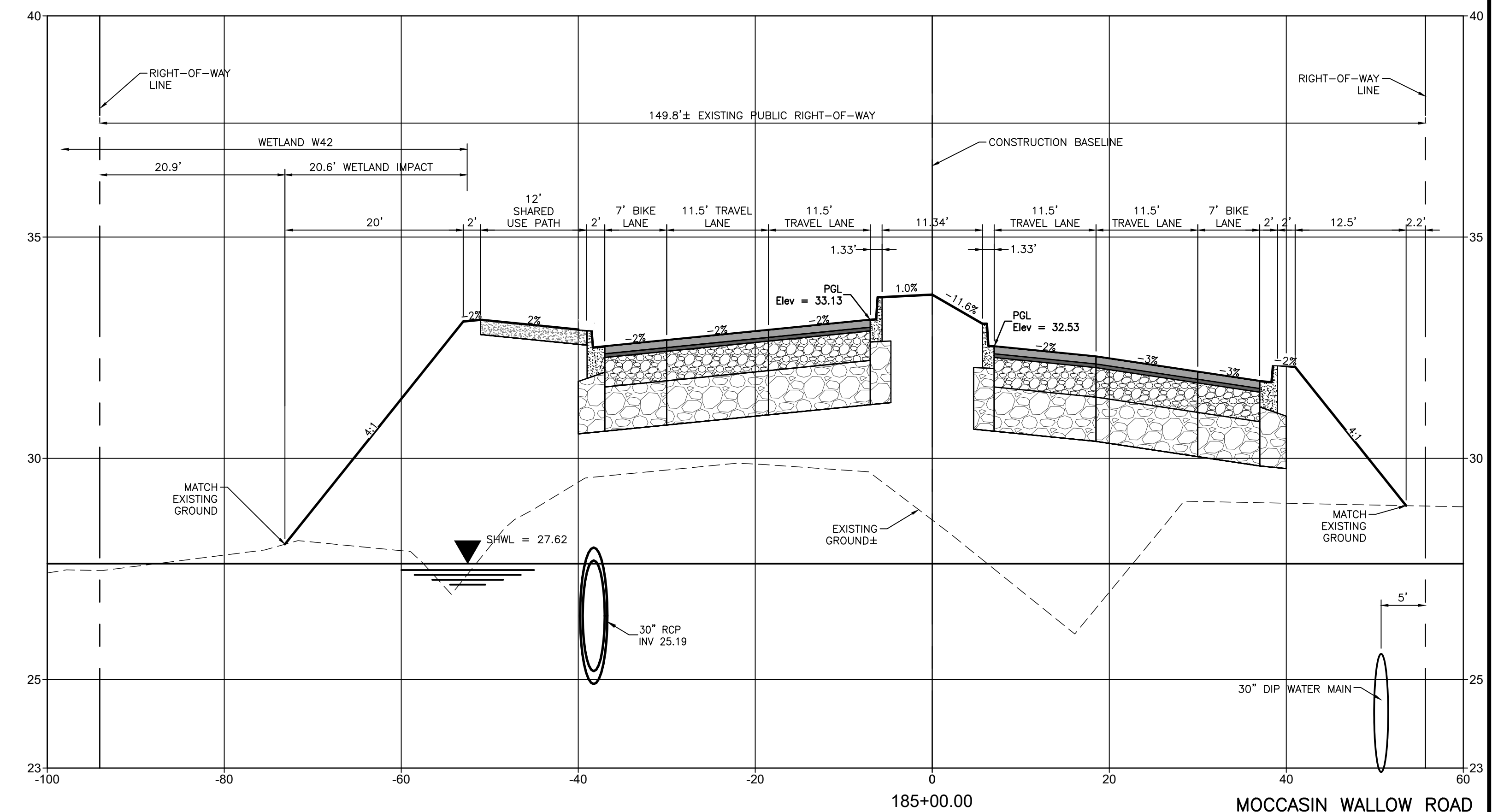
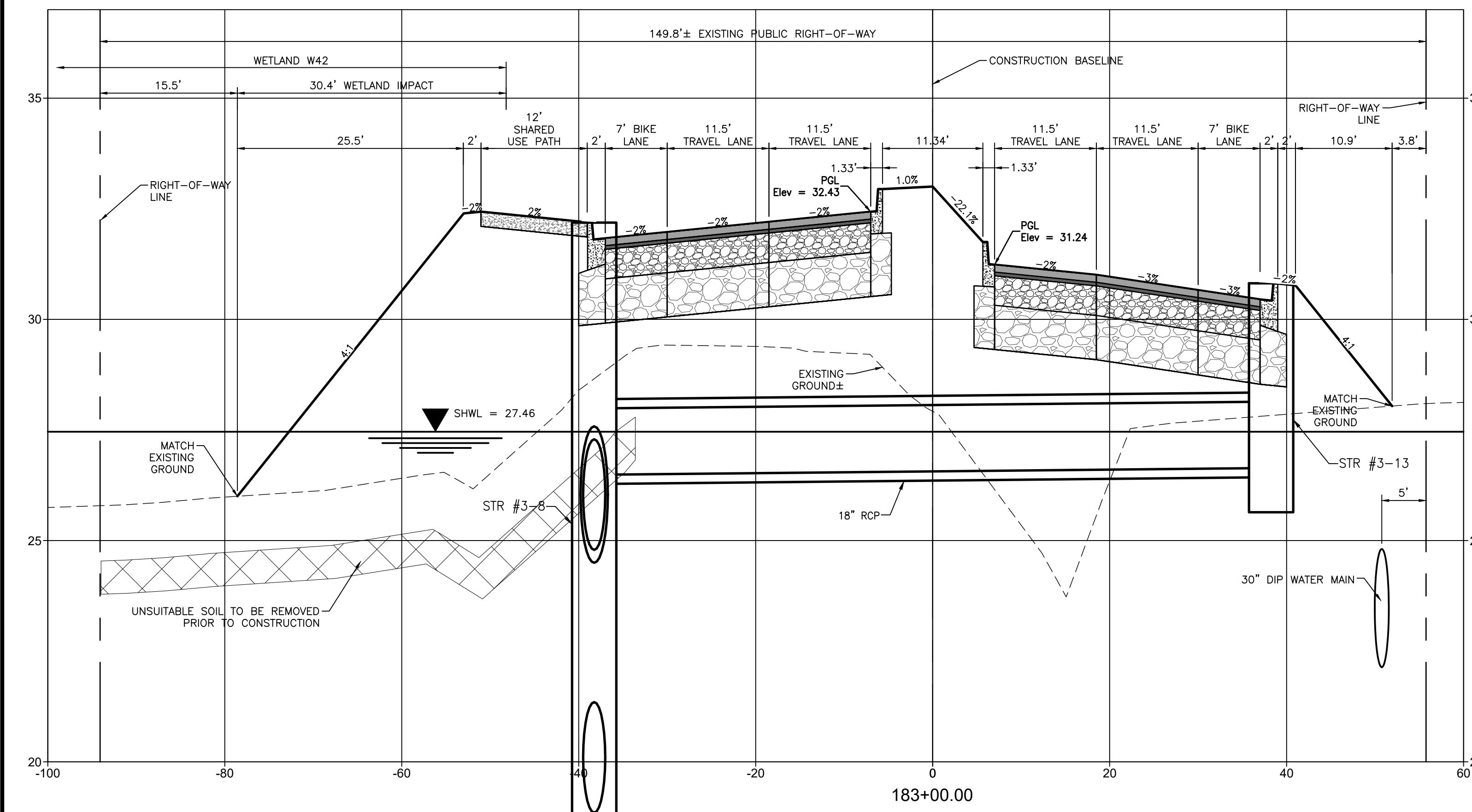
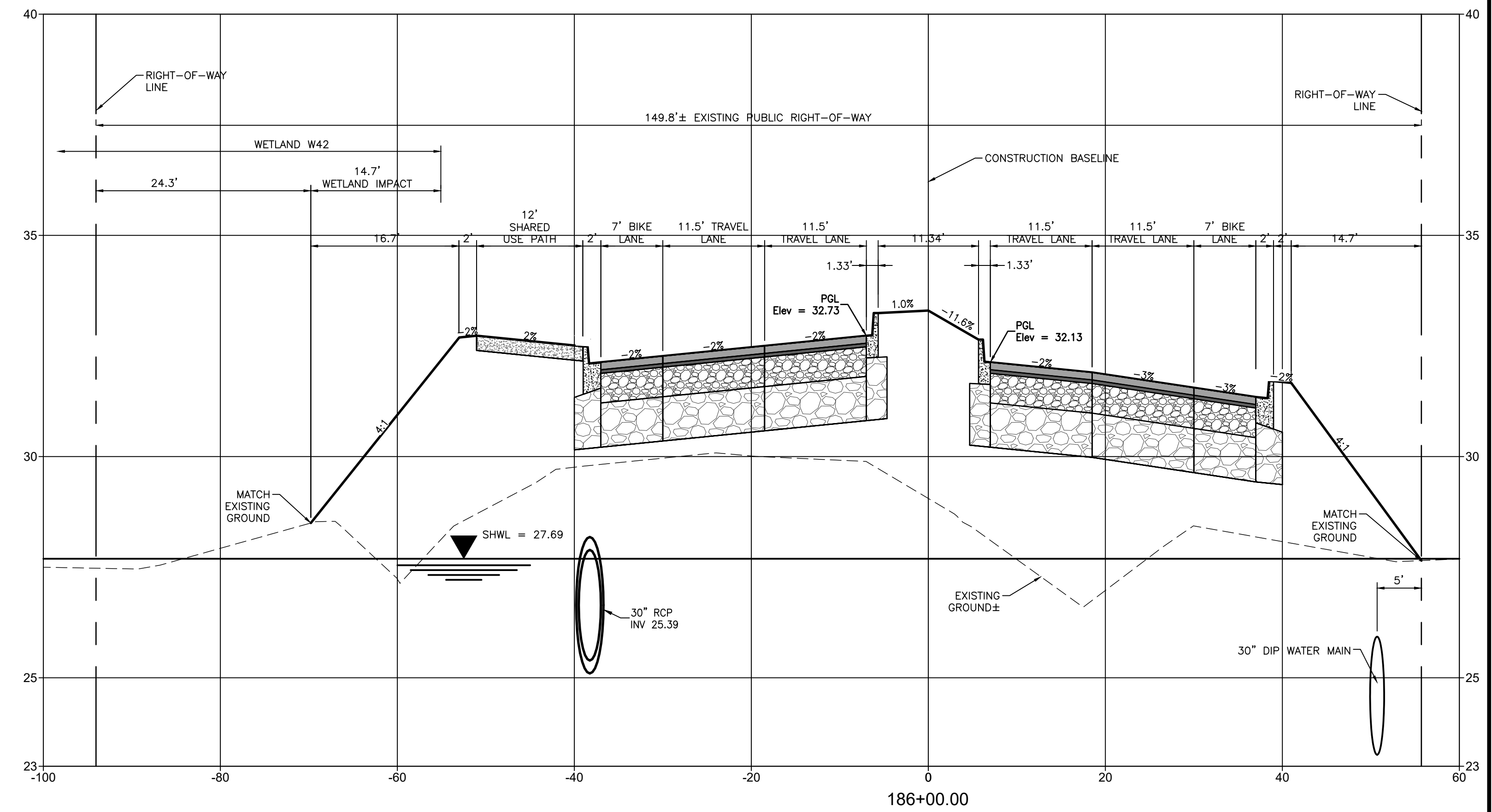
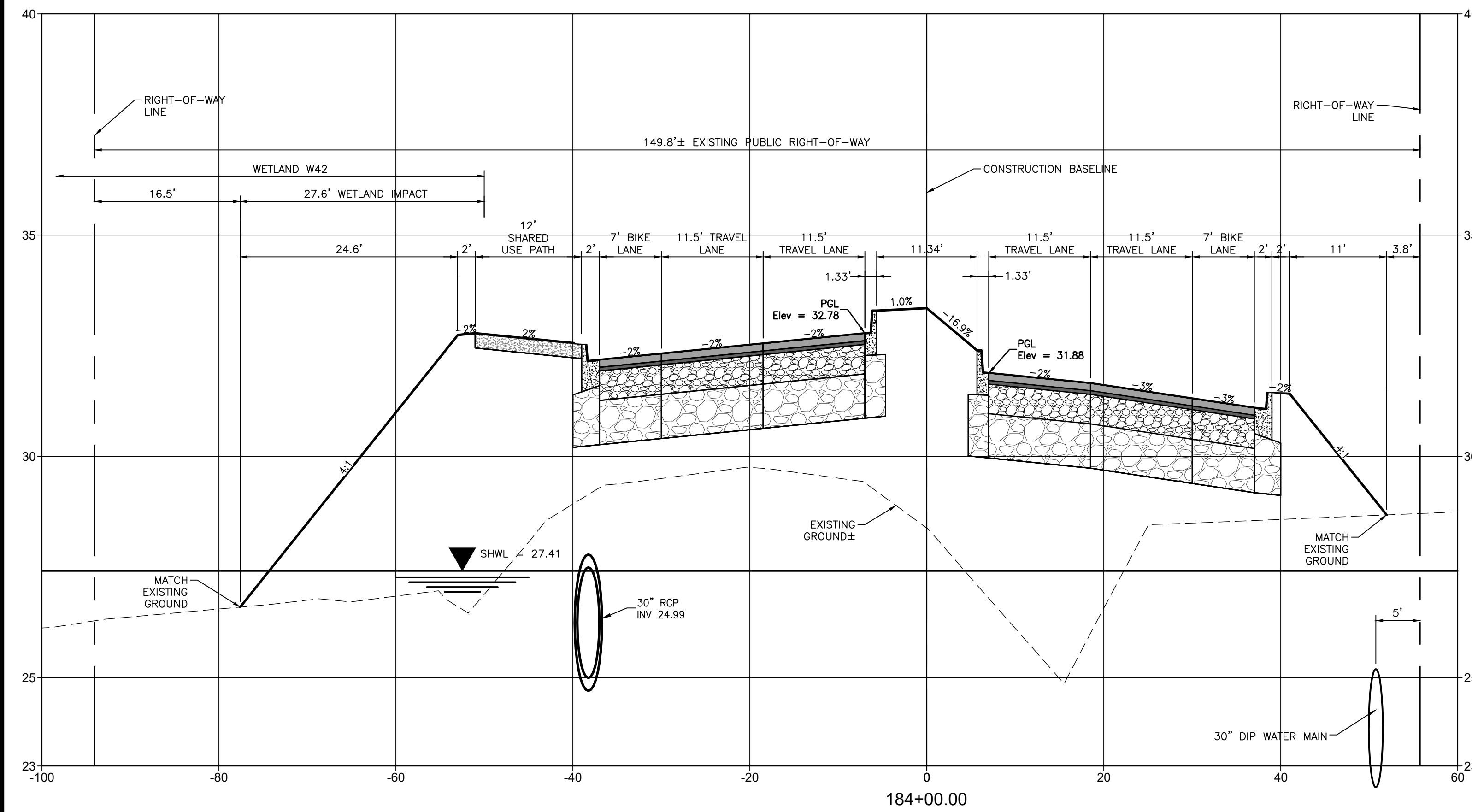
Stantec 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' SHEET: 43 OF 112	TITLE: CROSS SECTIONS PROJECT NUMBER: 215615900 SHEET NUMBER: 43 OF 112
	The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing. Any errors or omissions shall be reported to Stantec without delay. The Copyright to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.	CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-301SC



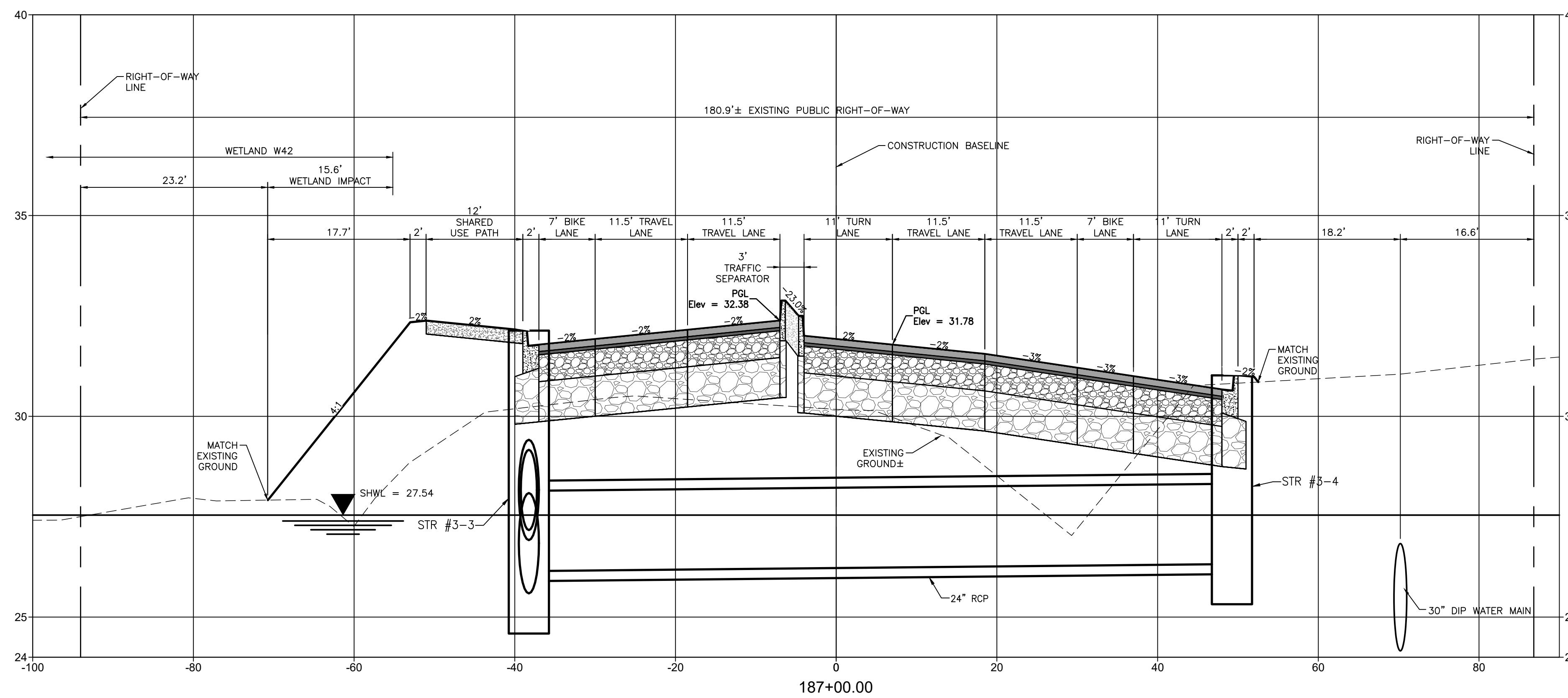
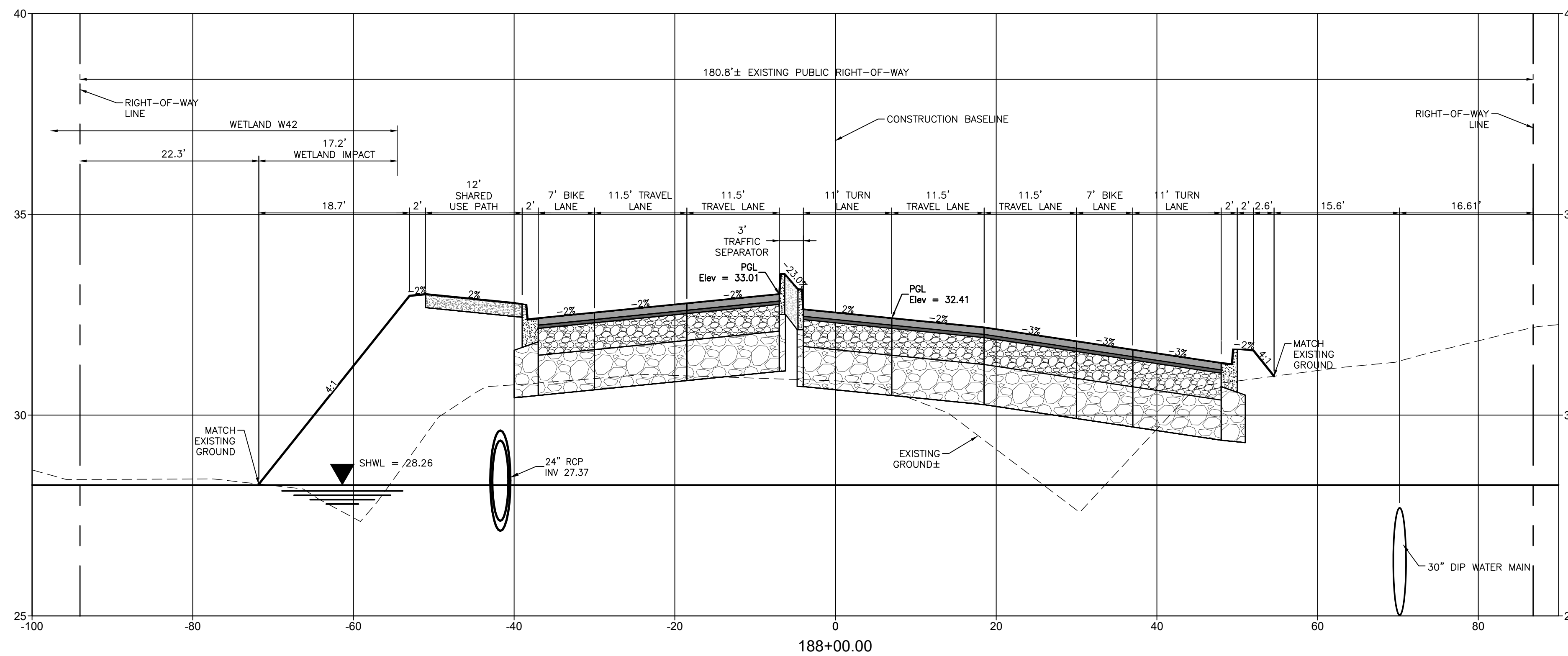
REVISION DATE DRAWN BY / EMP. NO. CHECKED BY / EMP. NO. WM APPROVED BY:		ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	INITIALS/EMP. NO. DATE	<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' SHEET: 33S 19E CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	TITLE: CROSS SECTIONS ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-301SC SHEET NUMBER: 44 OF 112
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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																														
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WM APPROVED BY:																																			



CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' SHEET: 19 OF 20 CROSS REFERENCE FILE NO.: 33S 19E		TITLE: CROSS SECTIONS PROJECT NUMBER: 215615900 SHEET NUMBER: 46 OF 112	
ACTIVITY: DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 21565900-01C-301SC	



MOCCASIN WALLOW ROAD

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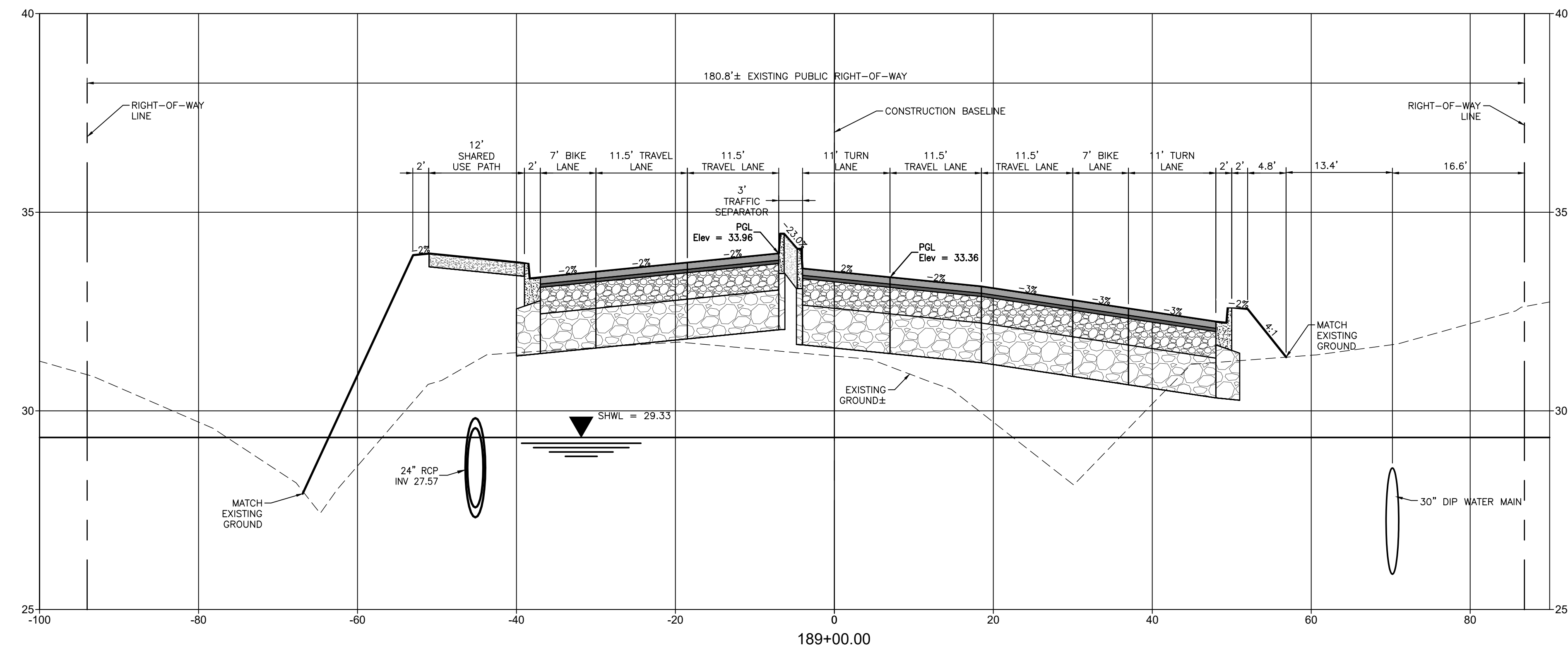
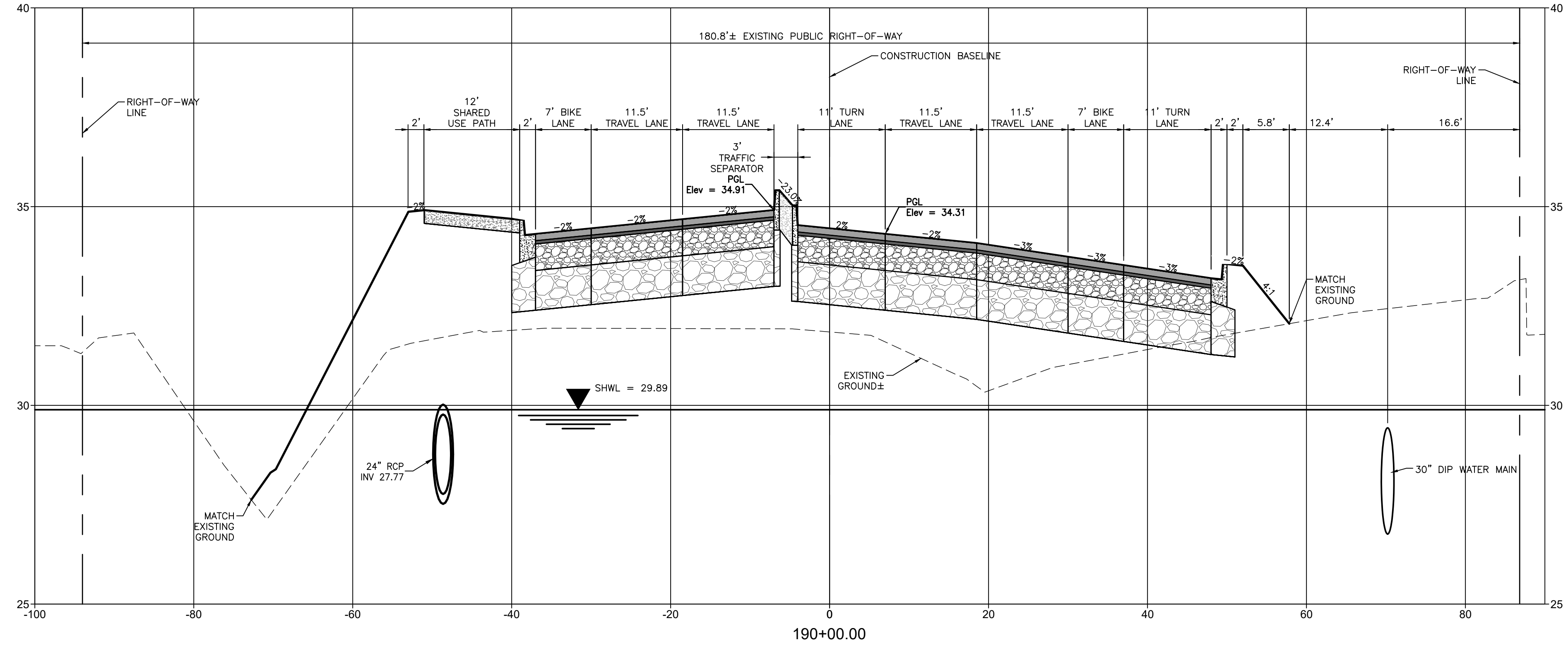
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS

PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 47 OF 112



MOCCASIN WALLOW ROAD

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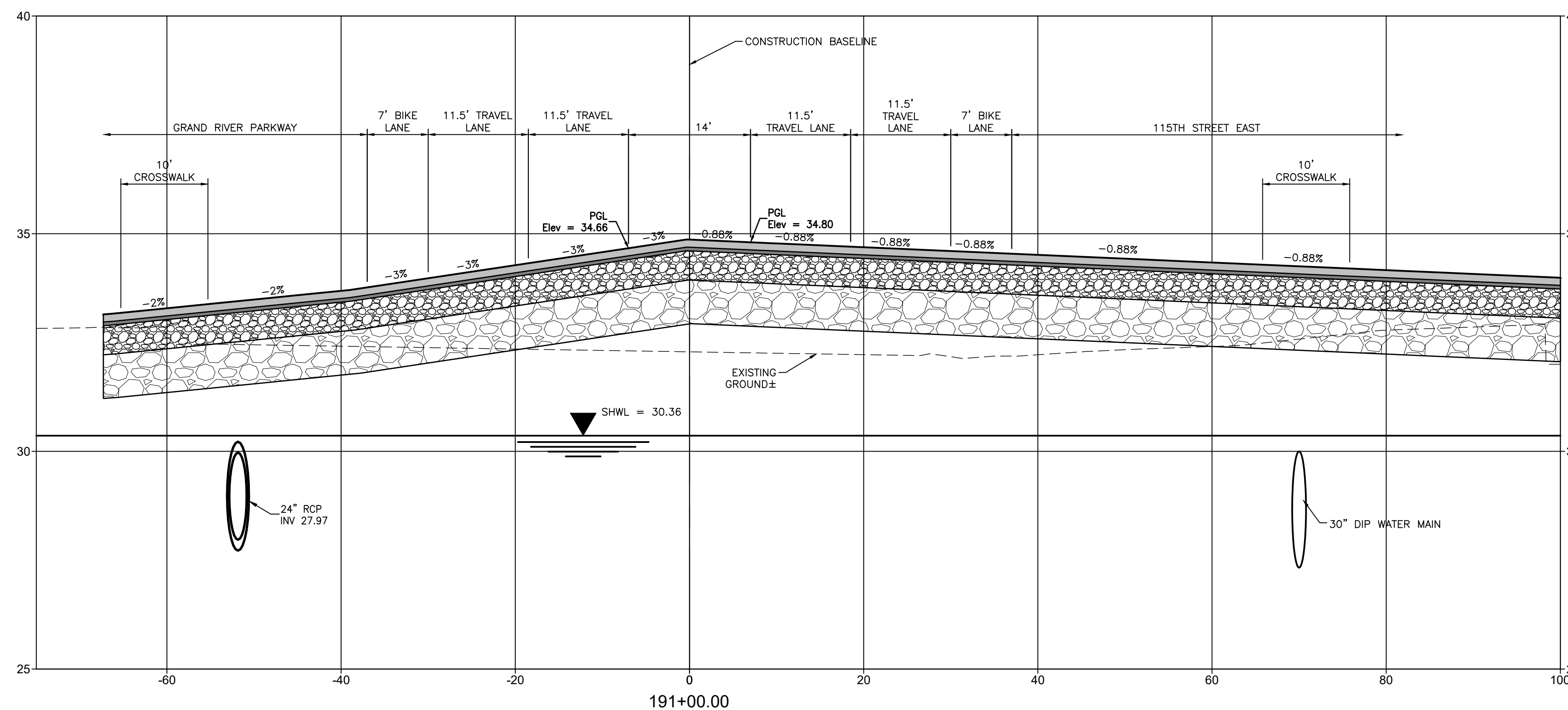
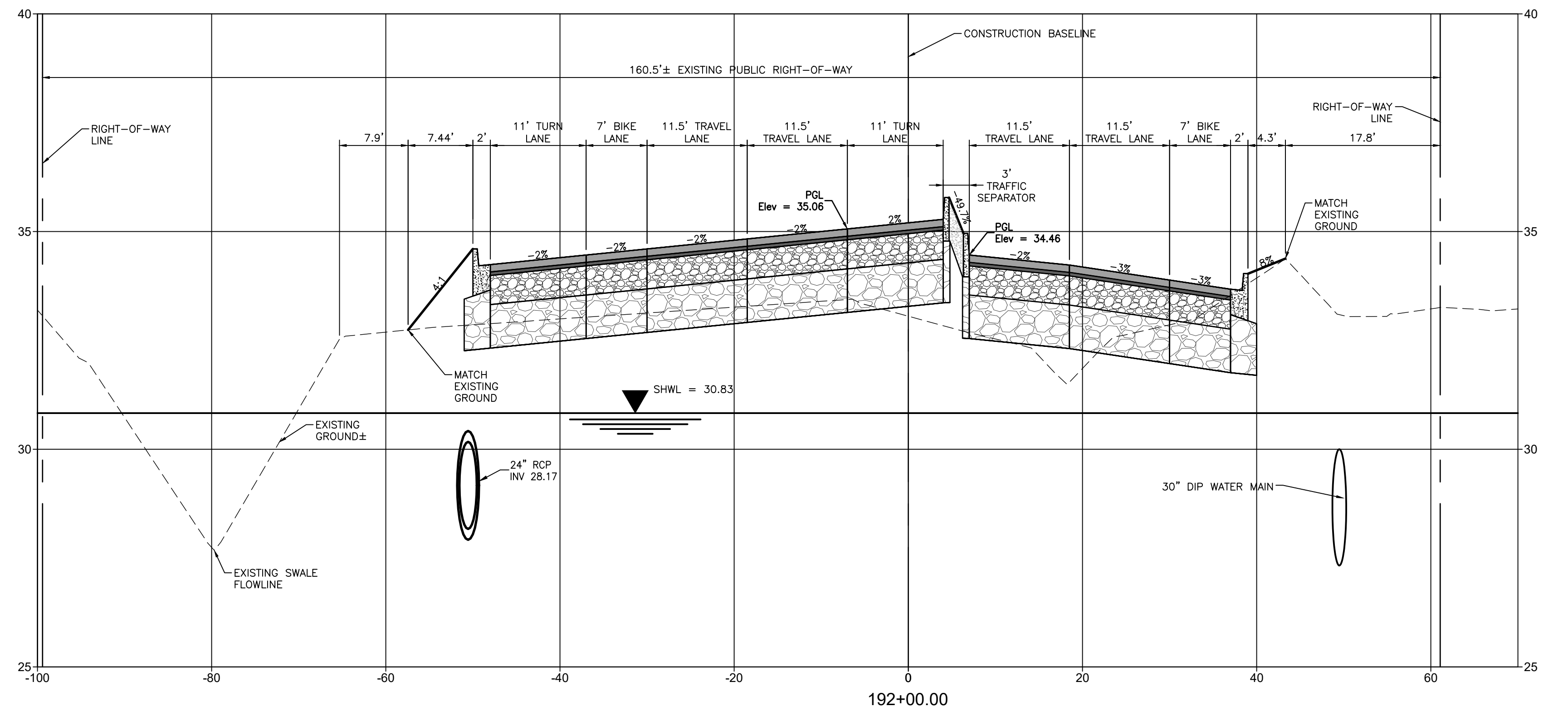
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 48 OF 112



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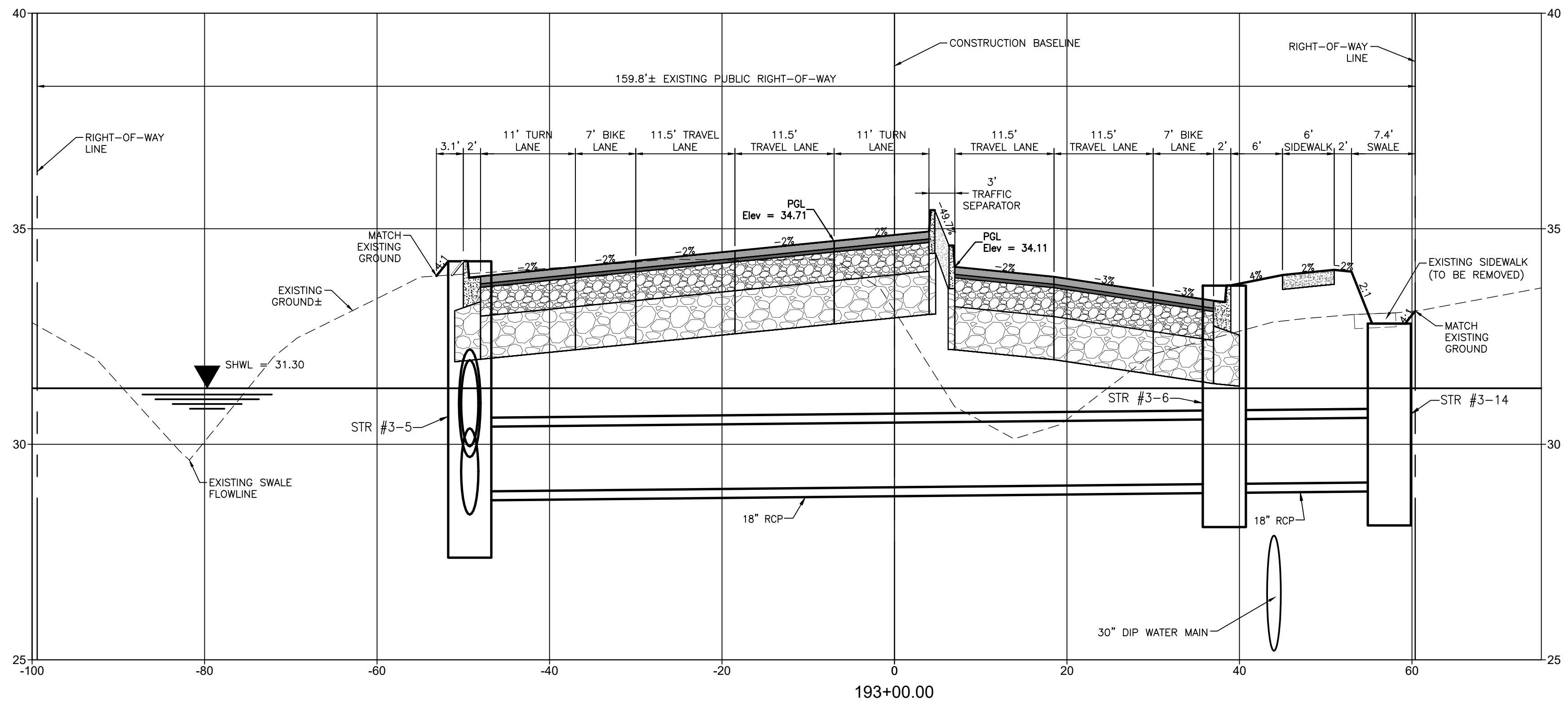
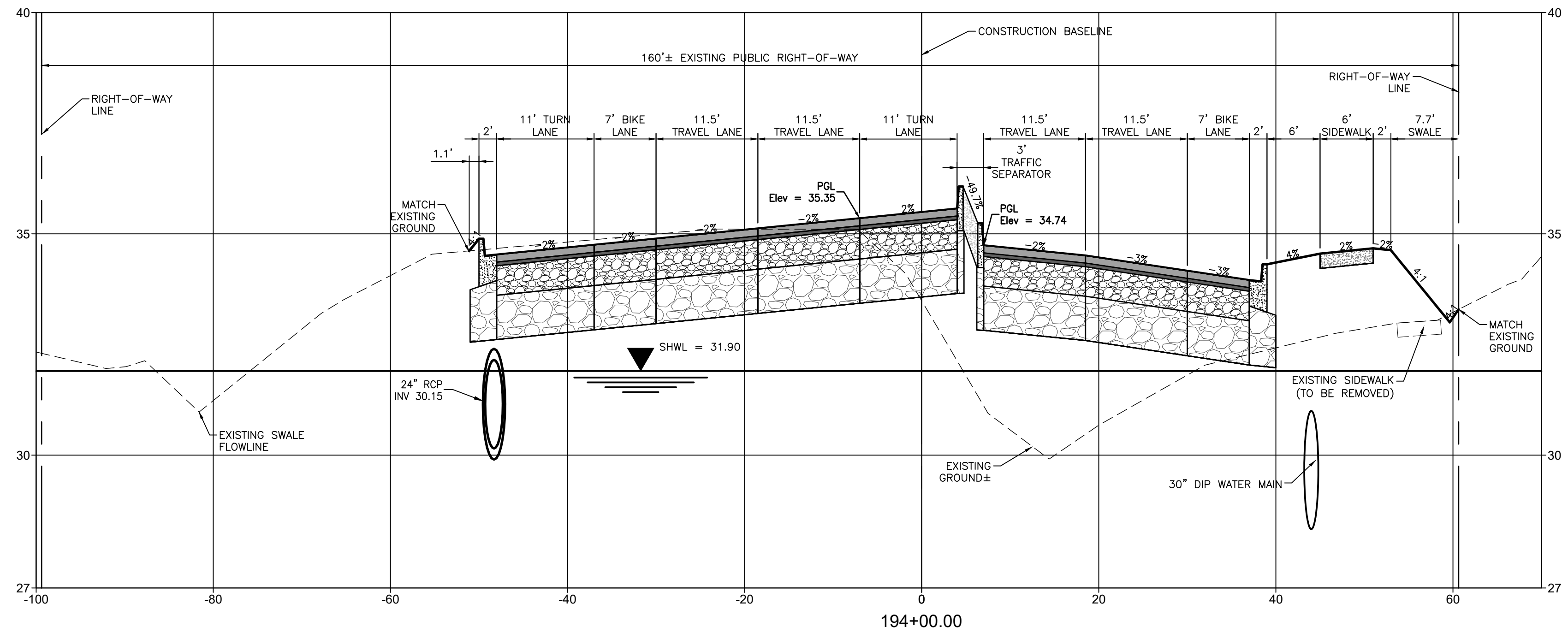
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
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MOCCASIN WALLOW ROAD
 ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 49 OF 112



MOCCASIN WALLOW ROAD

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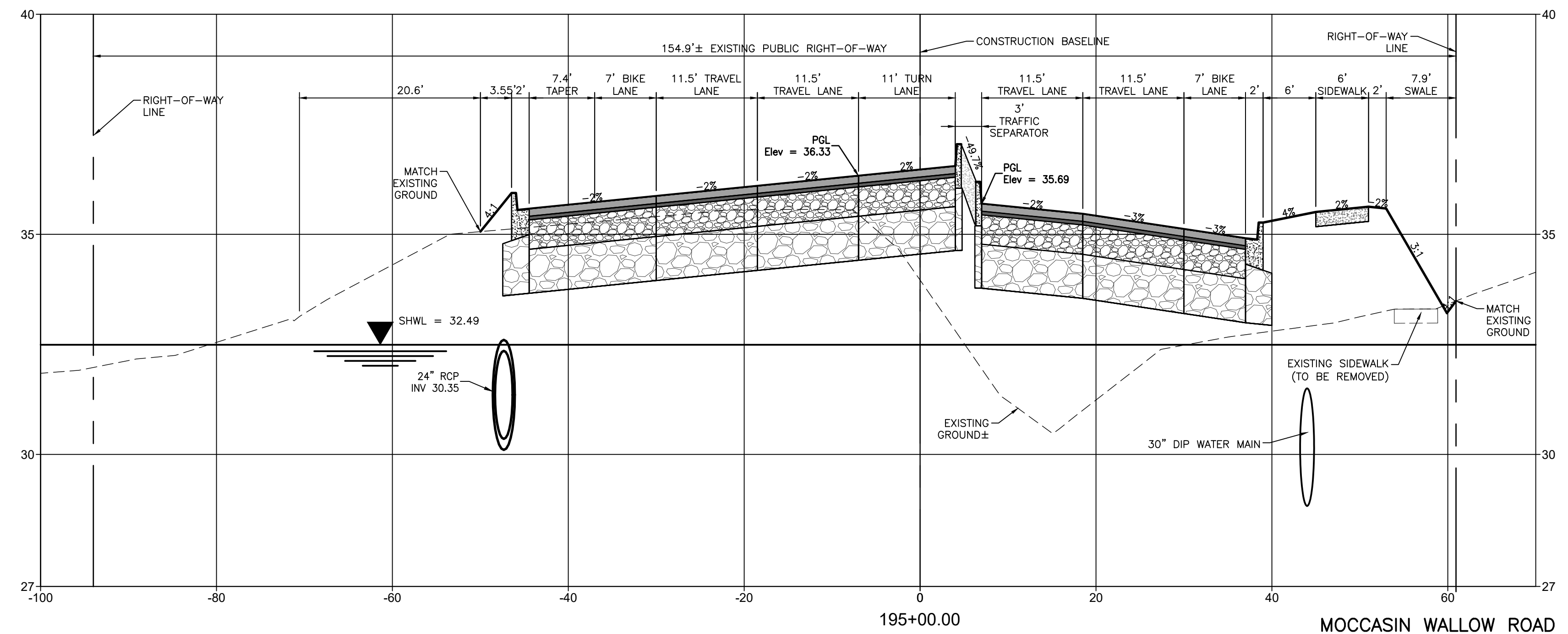
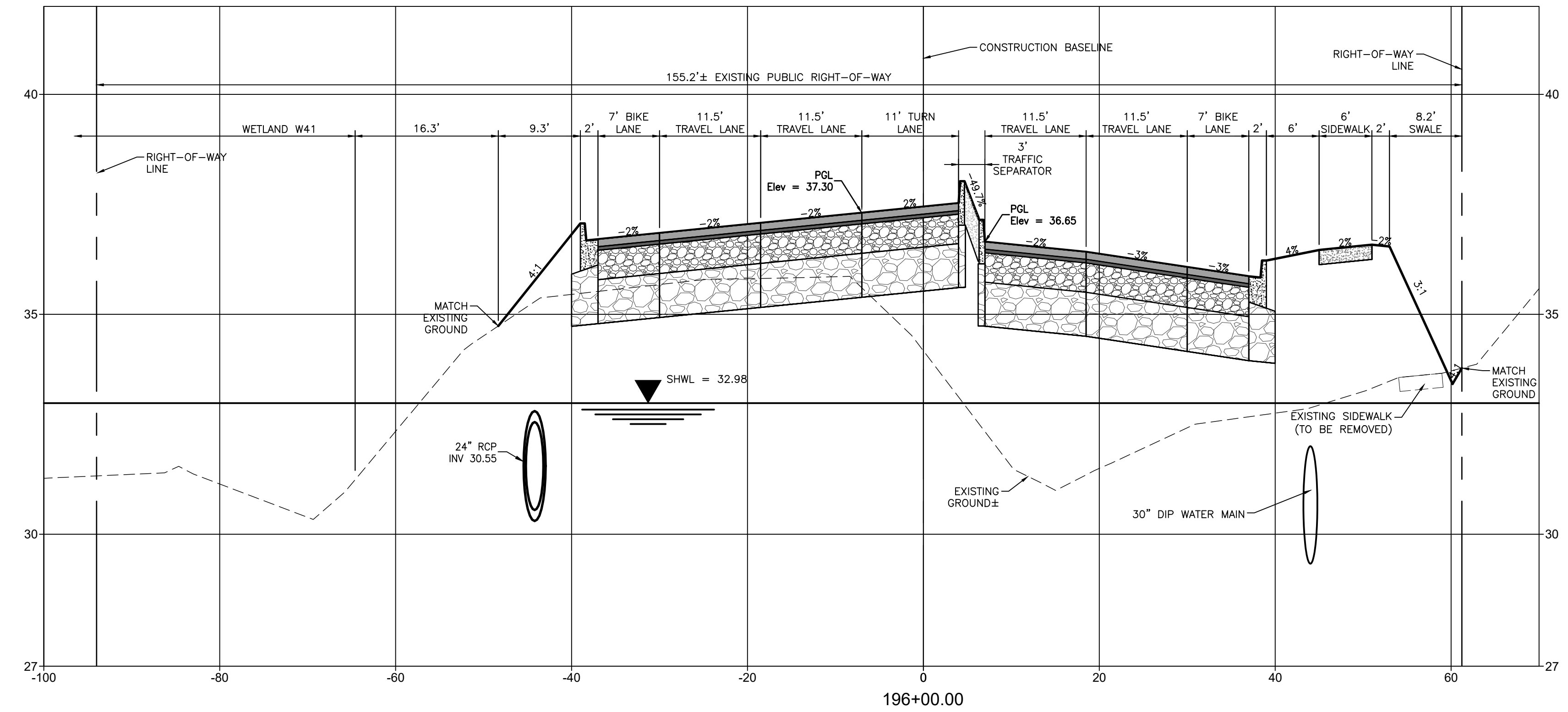
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET NO.: 50 OF 112

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 50 OF 112



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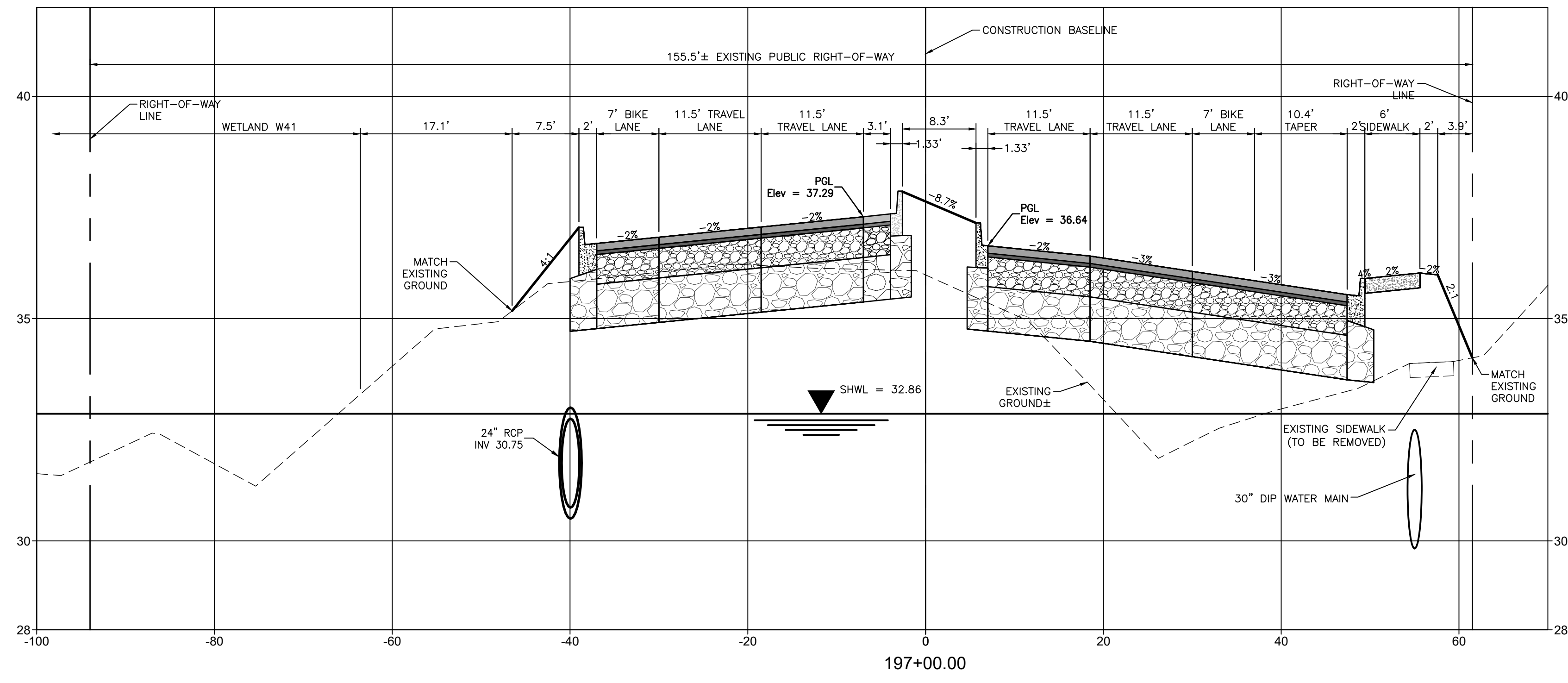
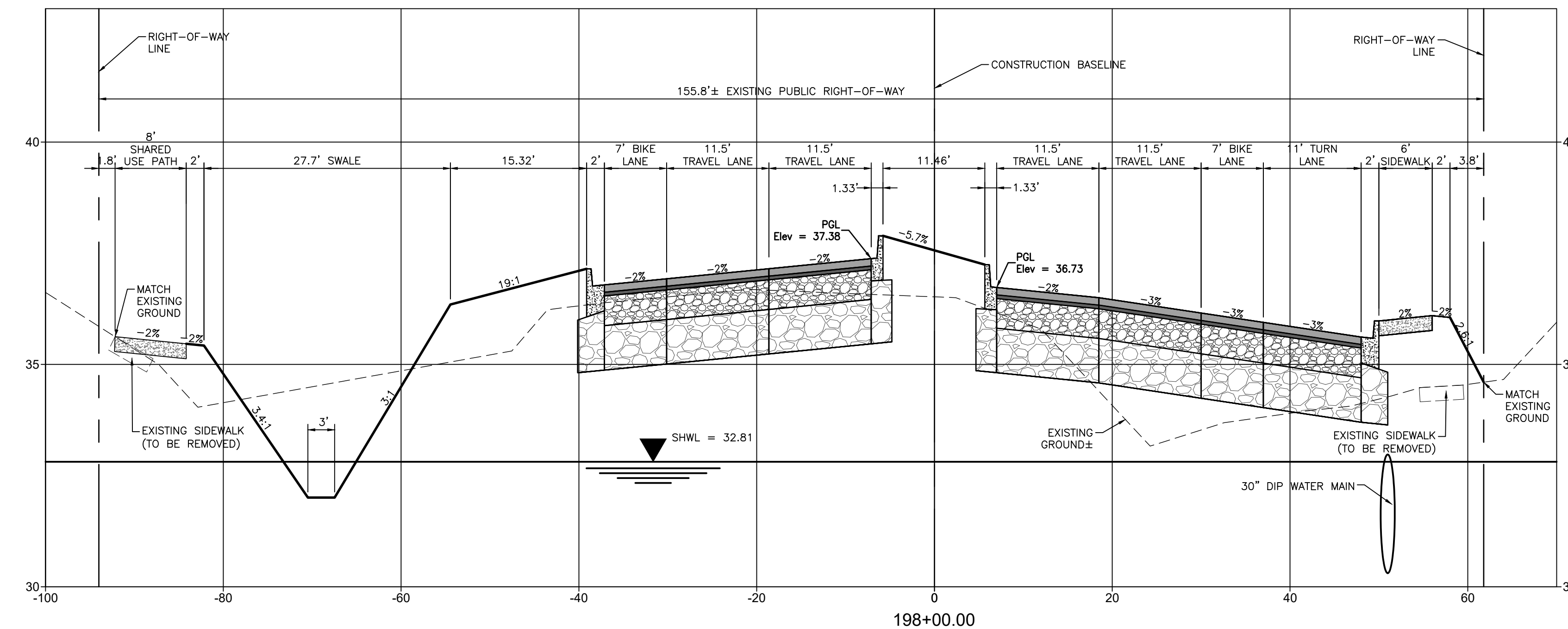
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET NO.: 51 OF 112

TITLE: CROSS SECTIONS

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 51 OF 112



MOCCASIN WALLOW ROAD

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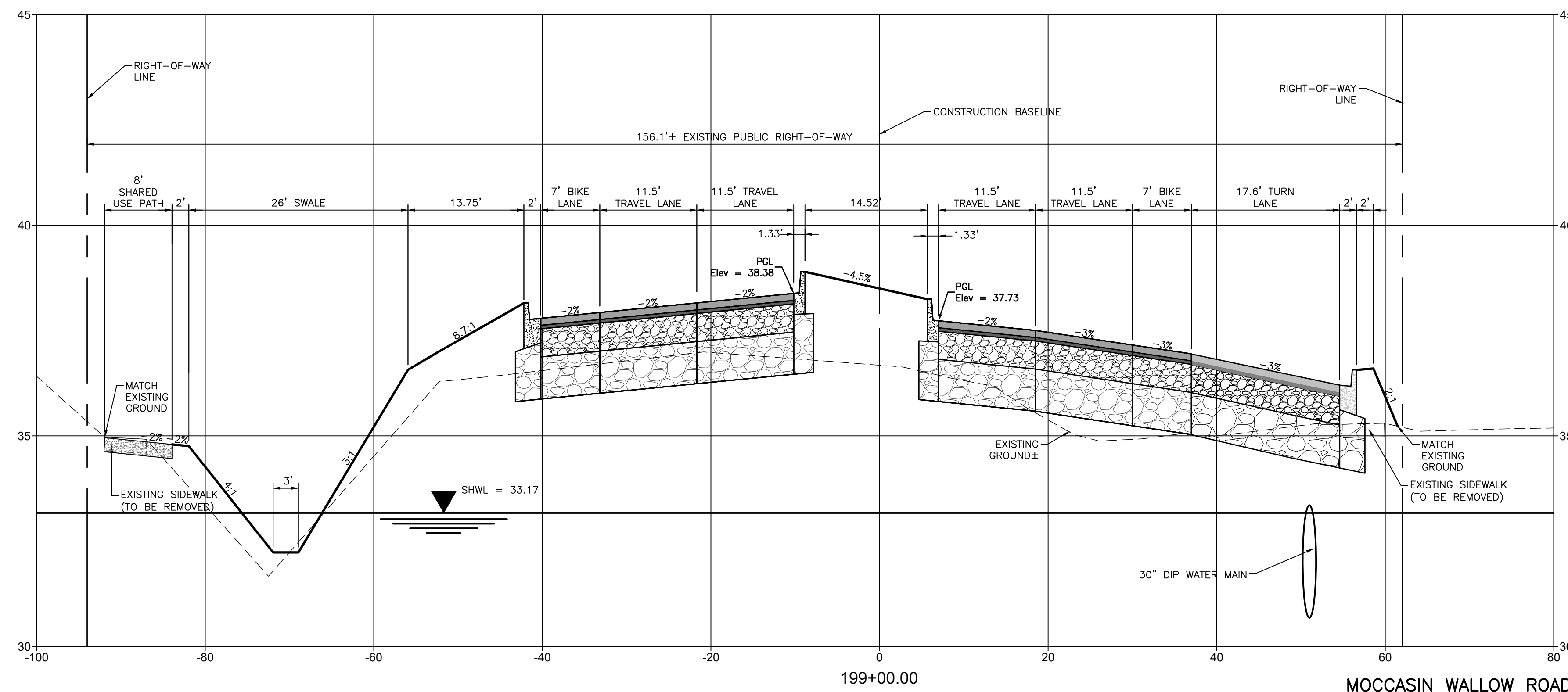
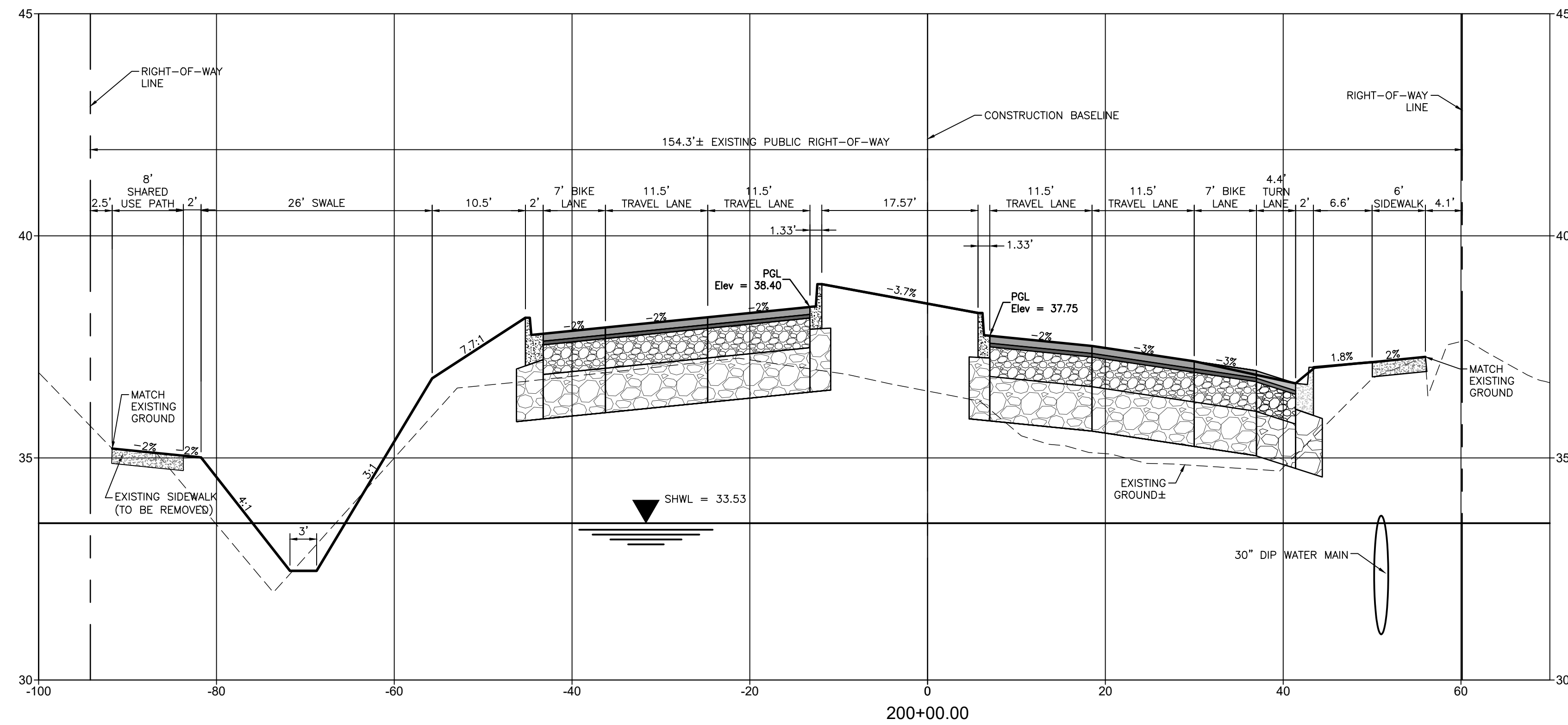
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
 SHEET NUMBER: 52 OF 112



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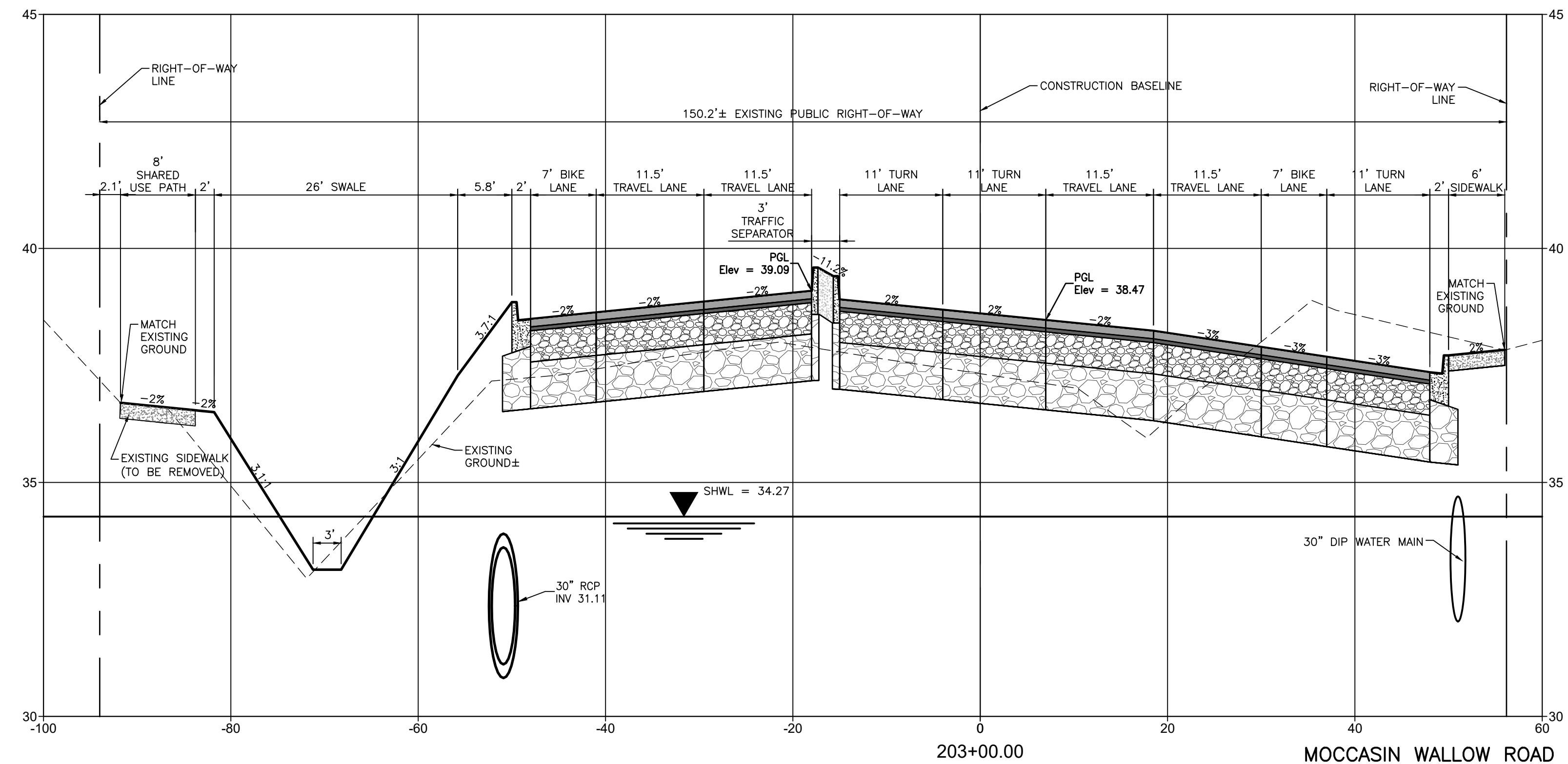
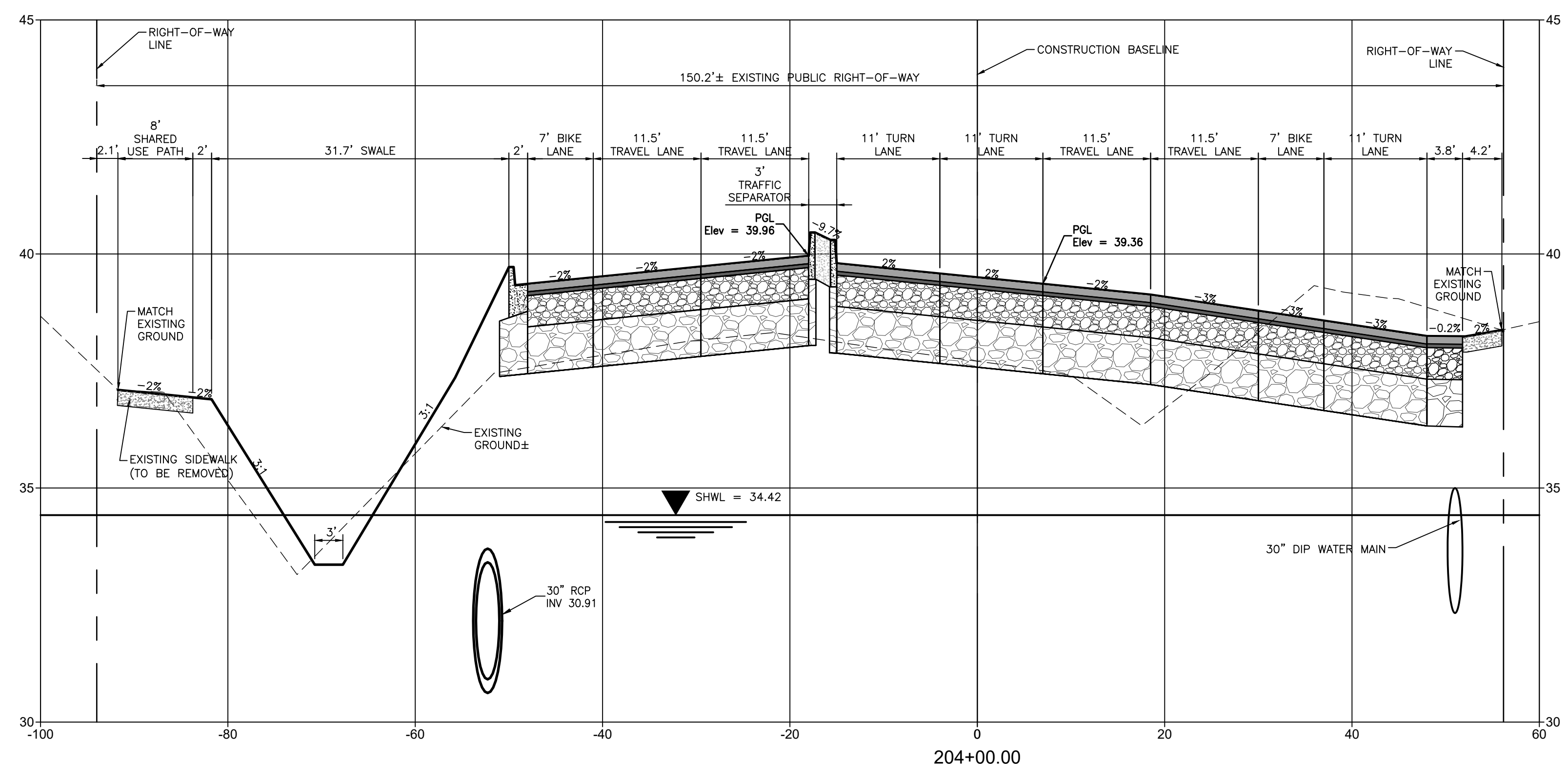
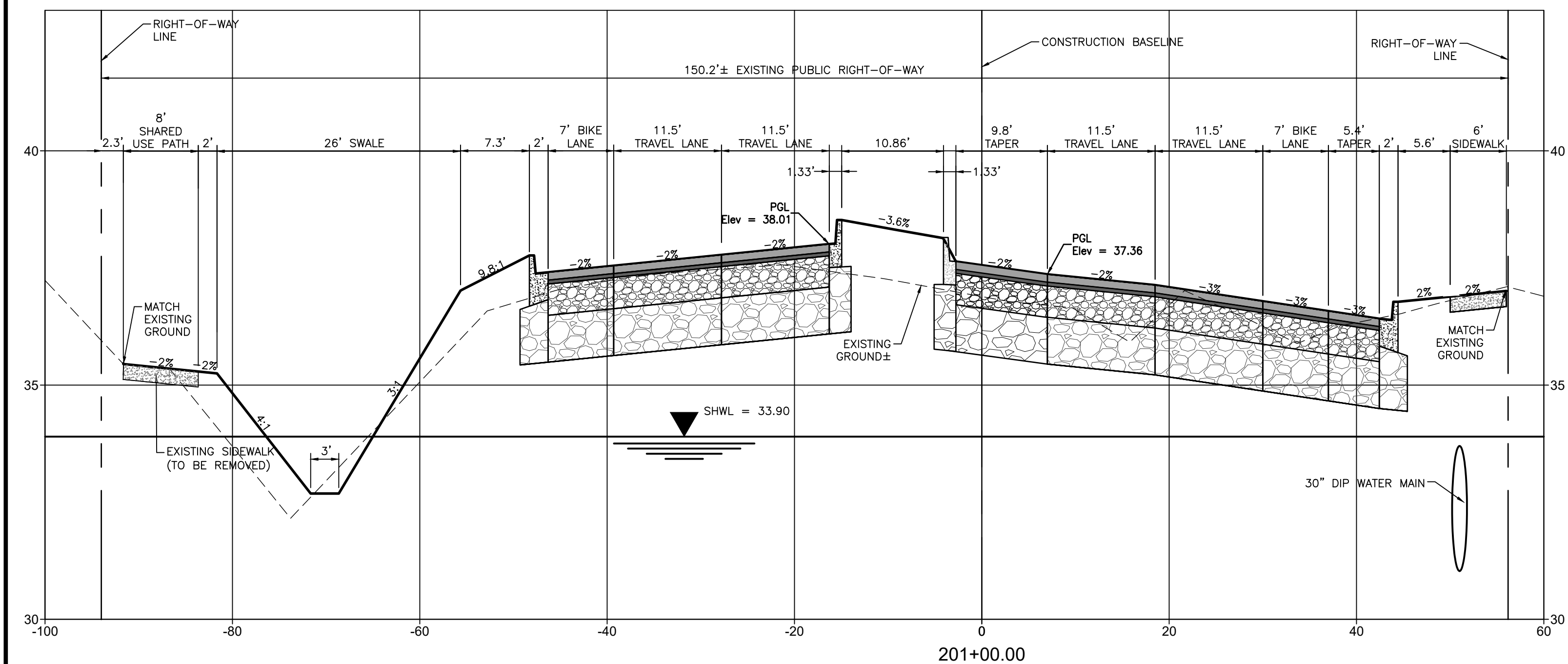
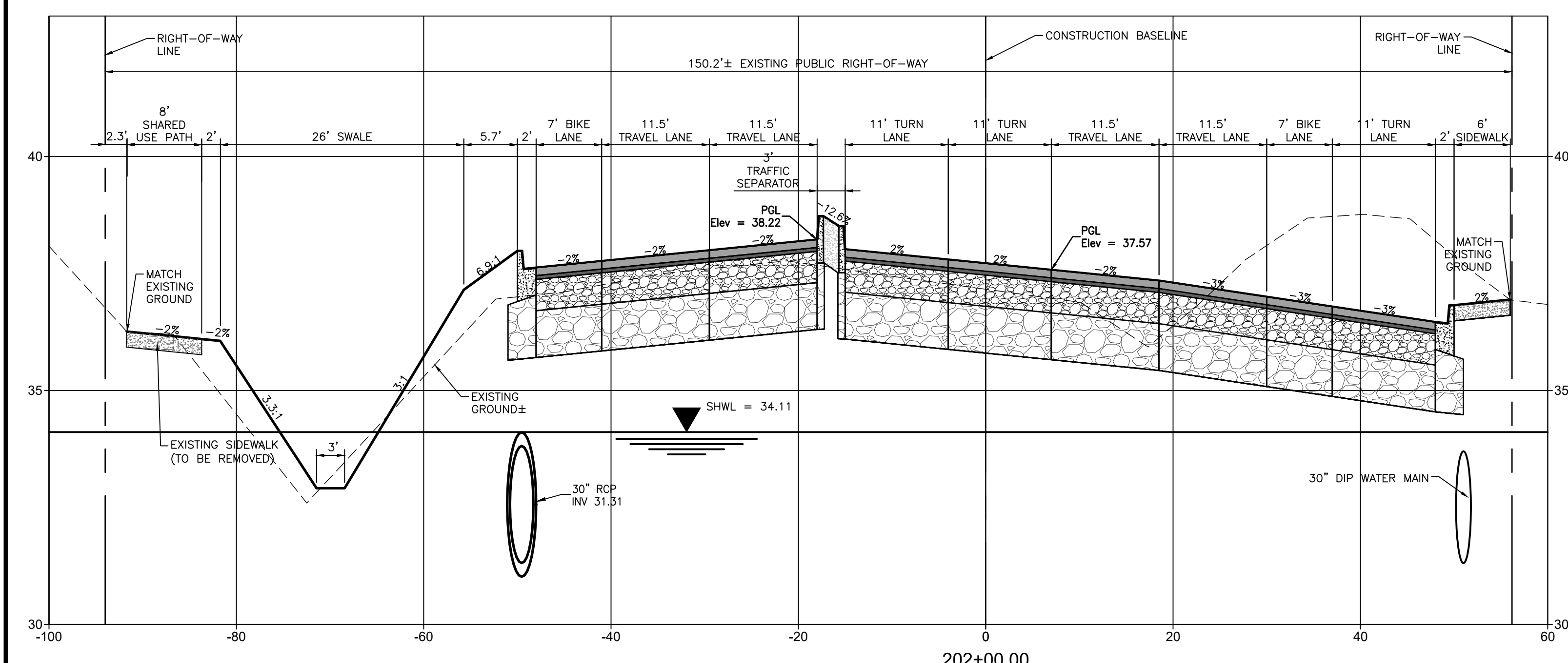
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET NO: 53 OF 112

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 21565900
 SHEET NUMBER: 53 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

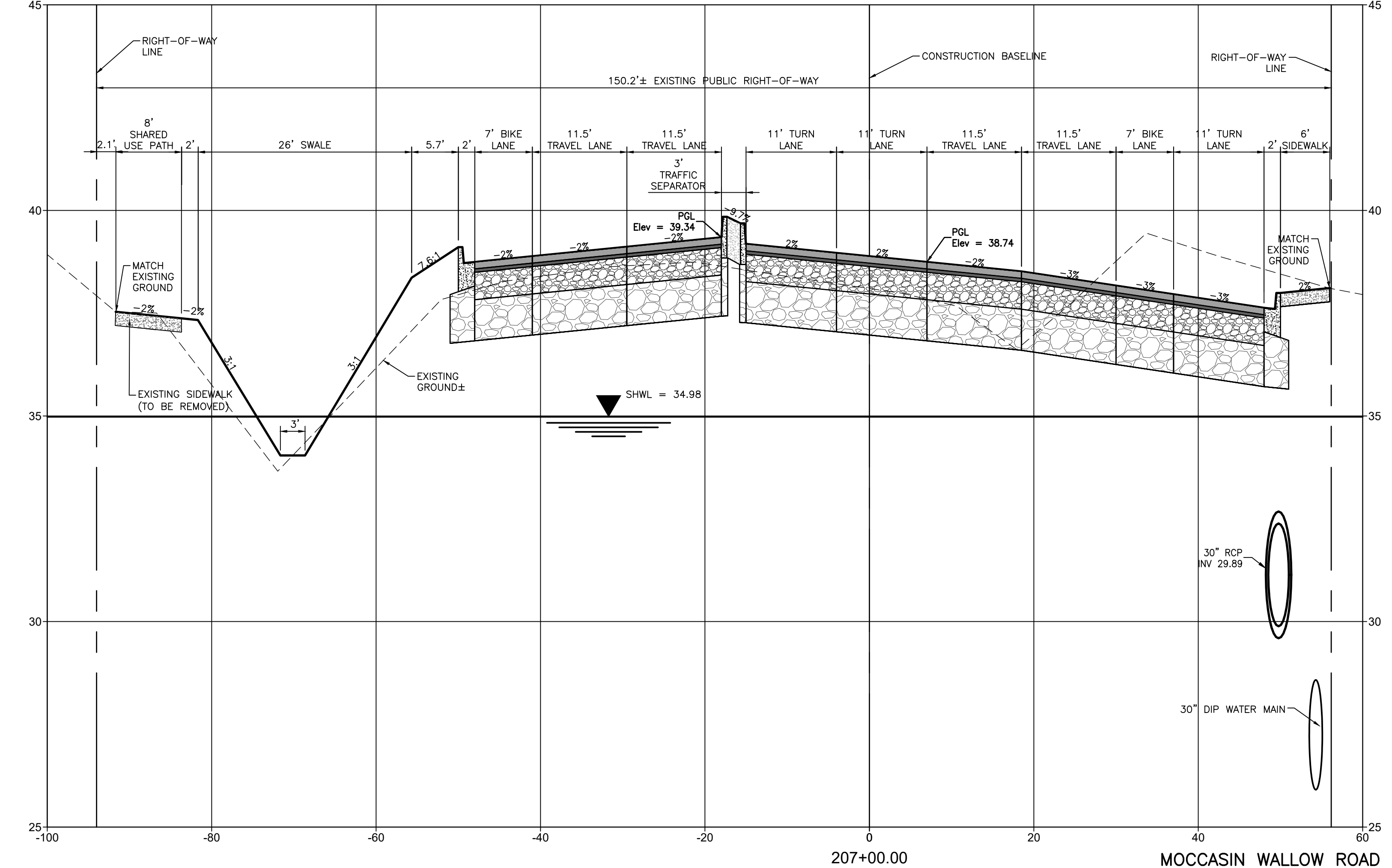
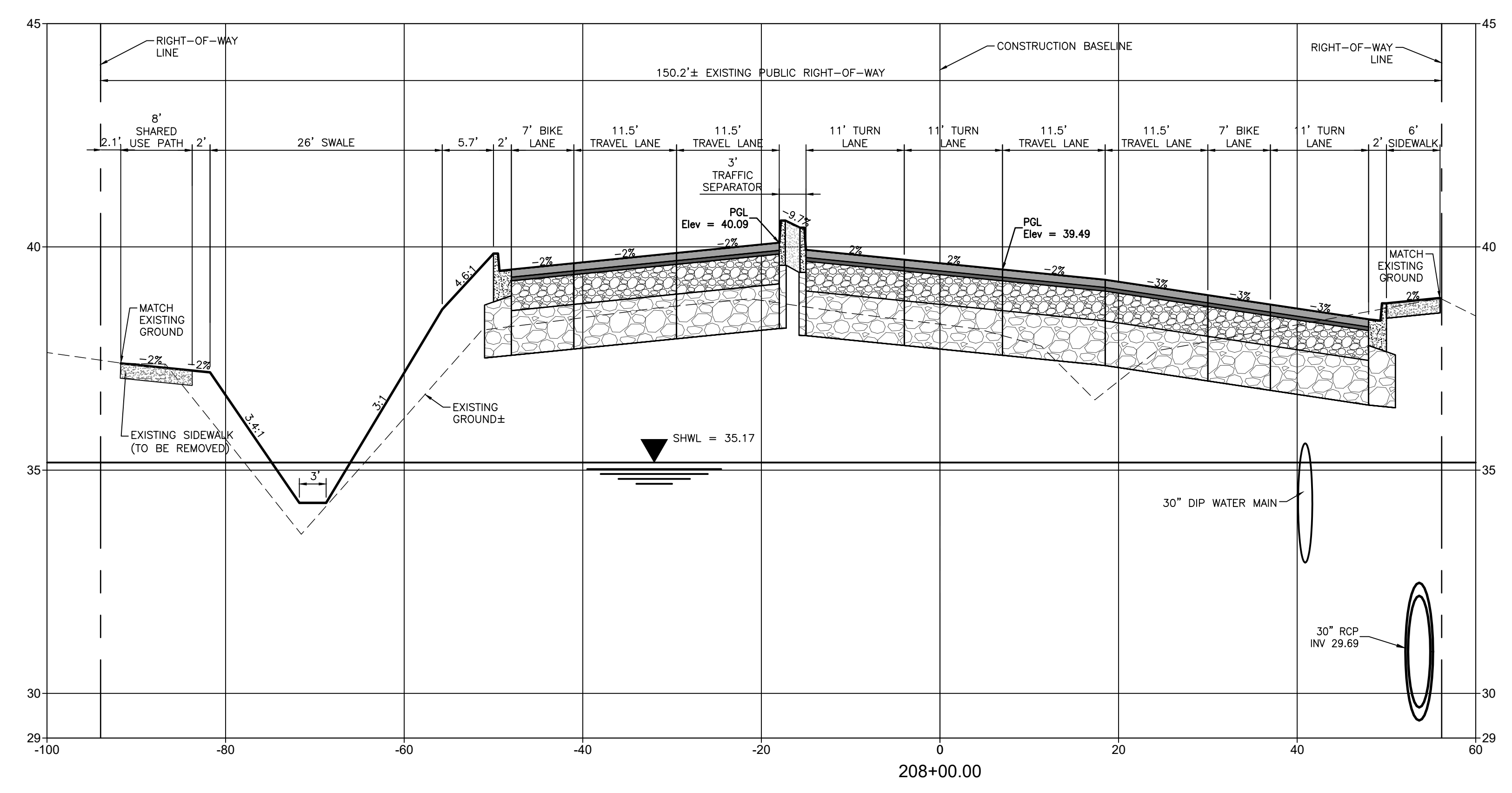
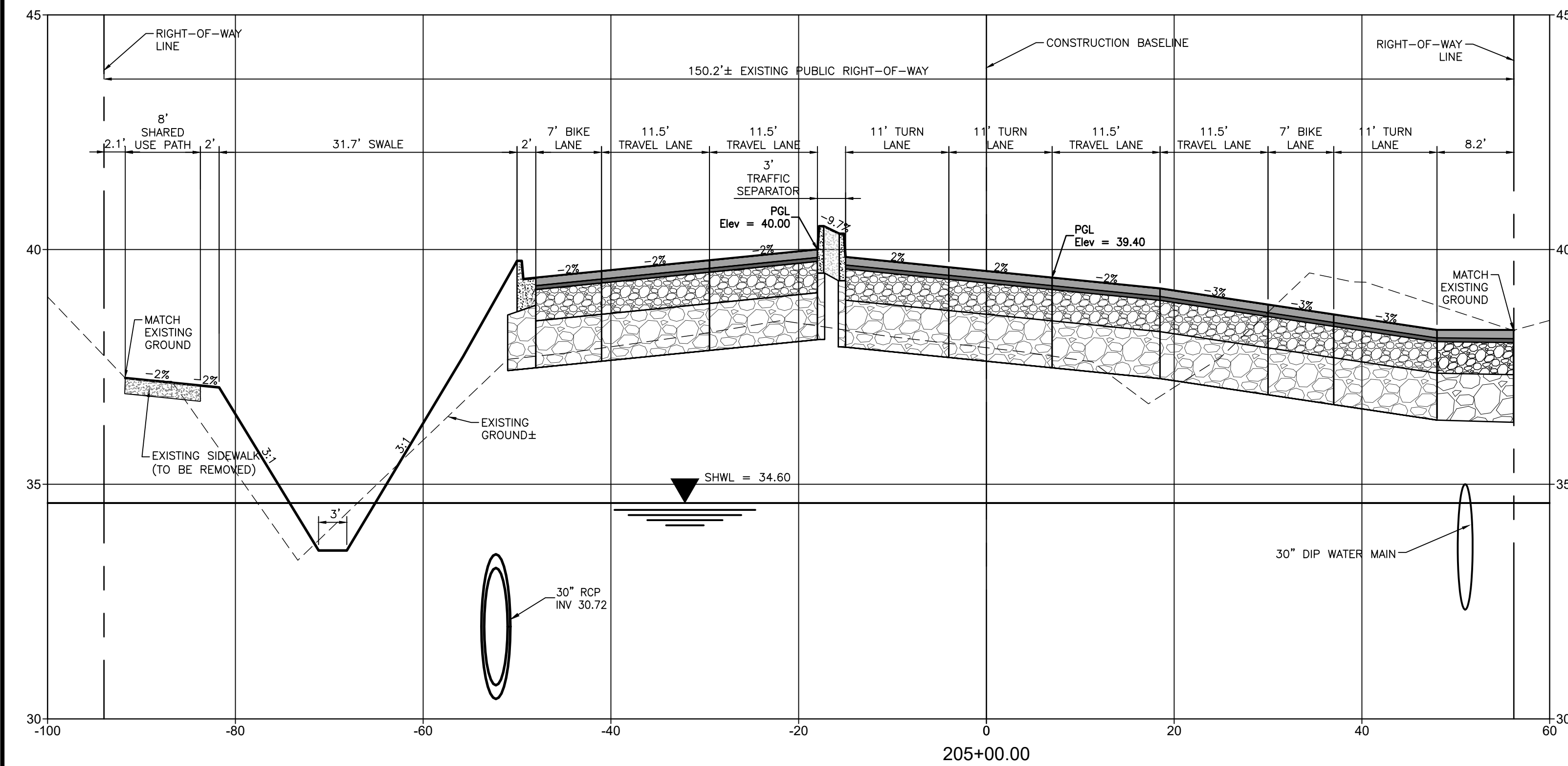
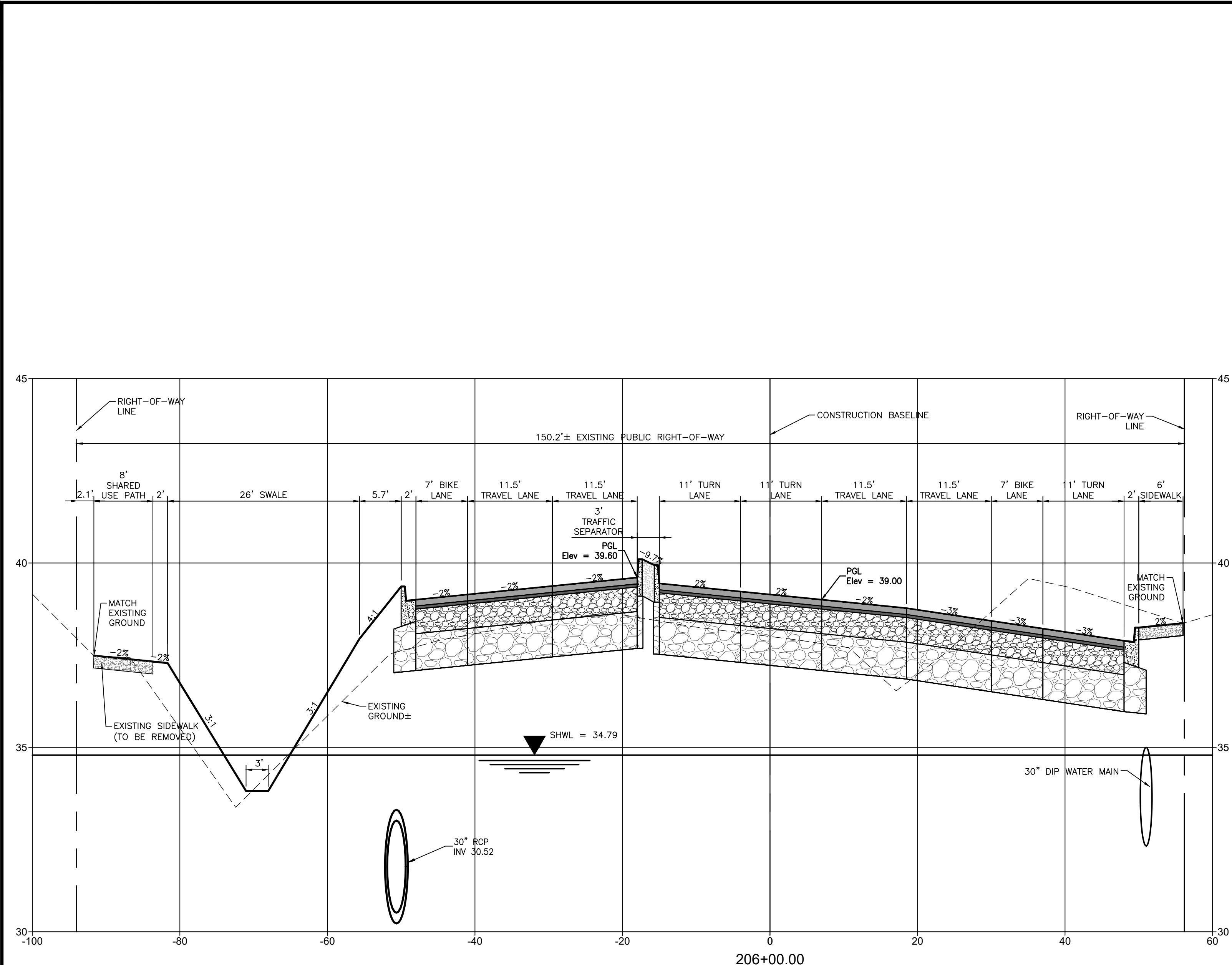
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET: 19 OF 20
 CROSS REFERENCE FILE NO.: 335 19E

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 54 OF 112
 ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58862
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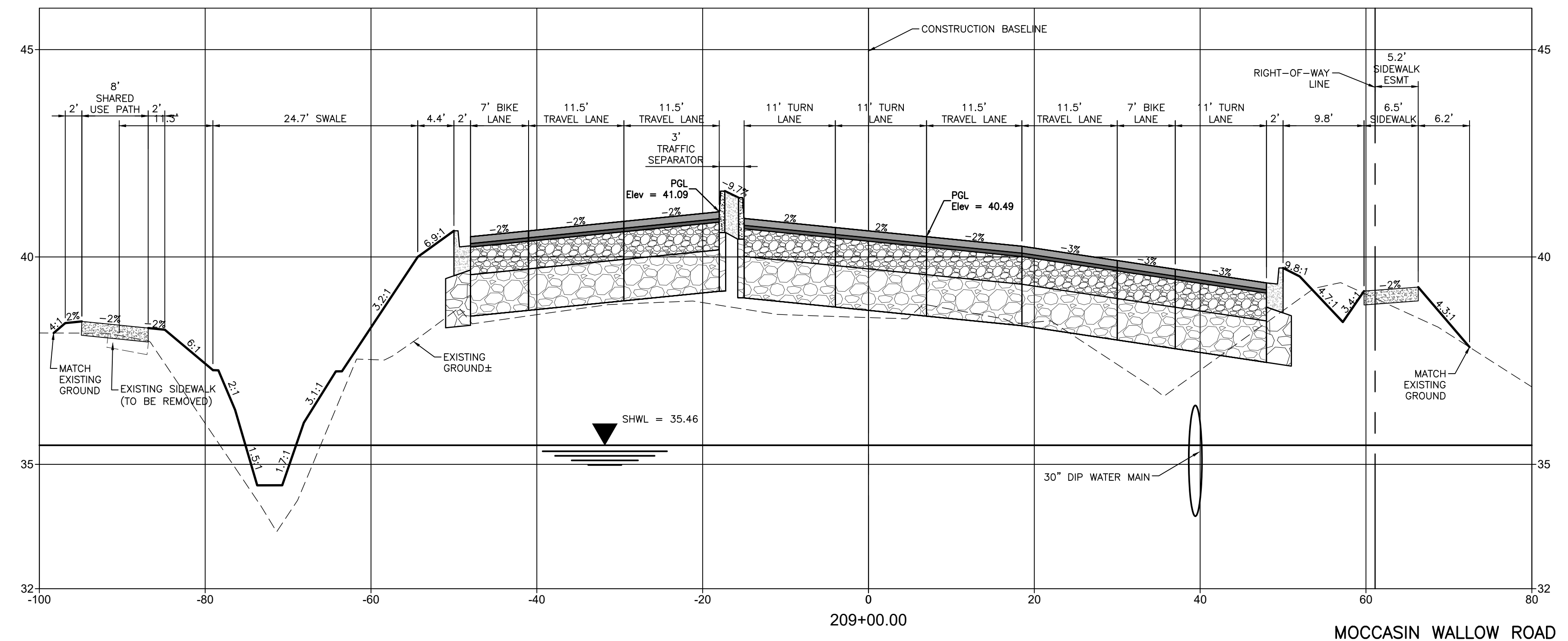
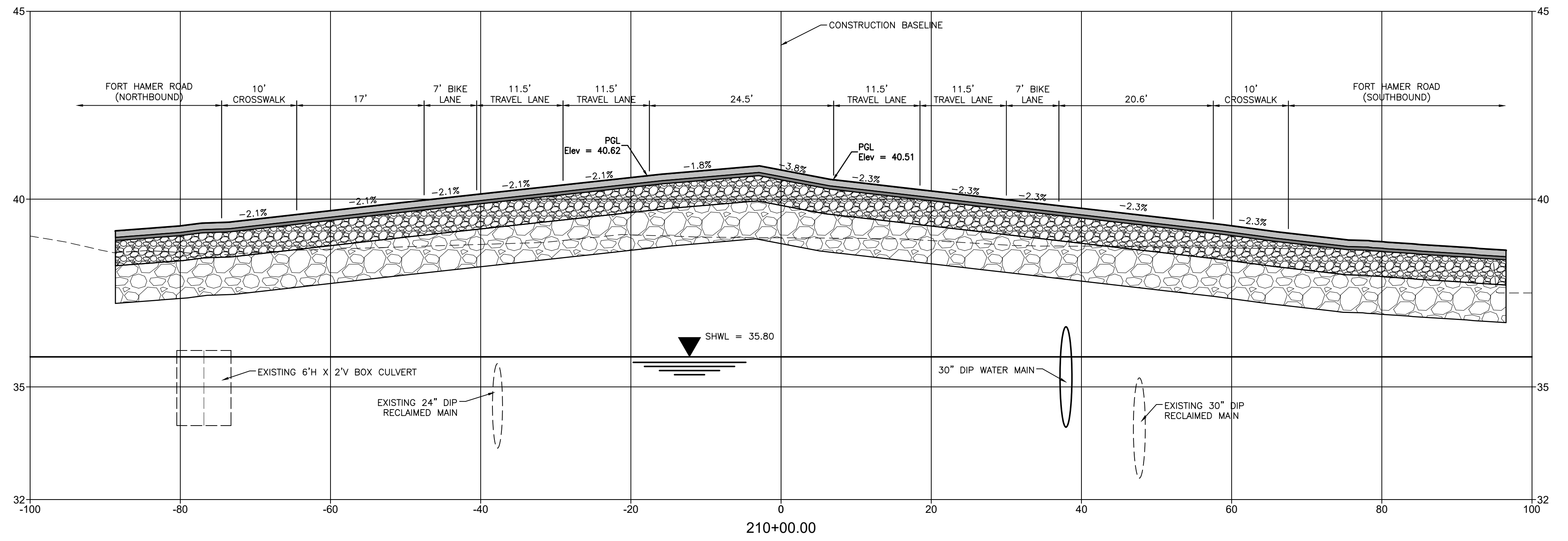
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SFC: 19 20
 SWP: 335
 SDE: 19E

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 55 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC



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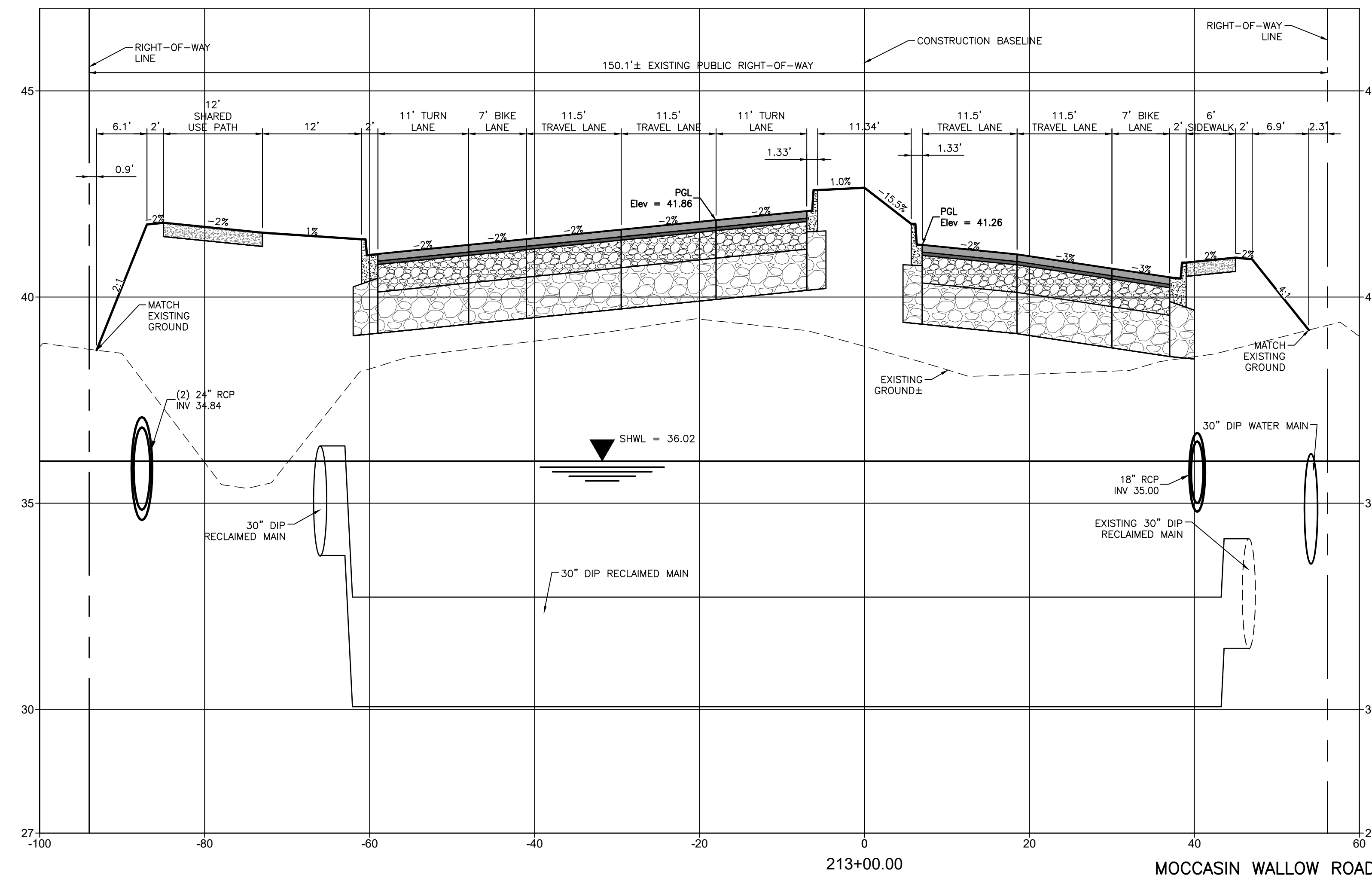
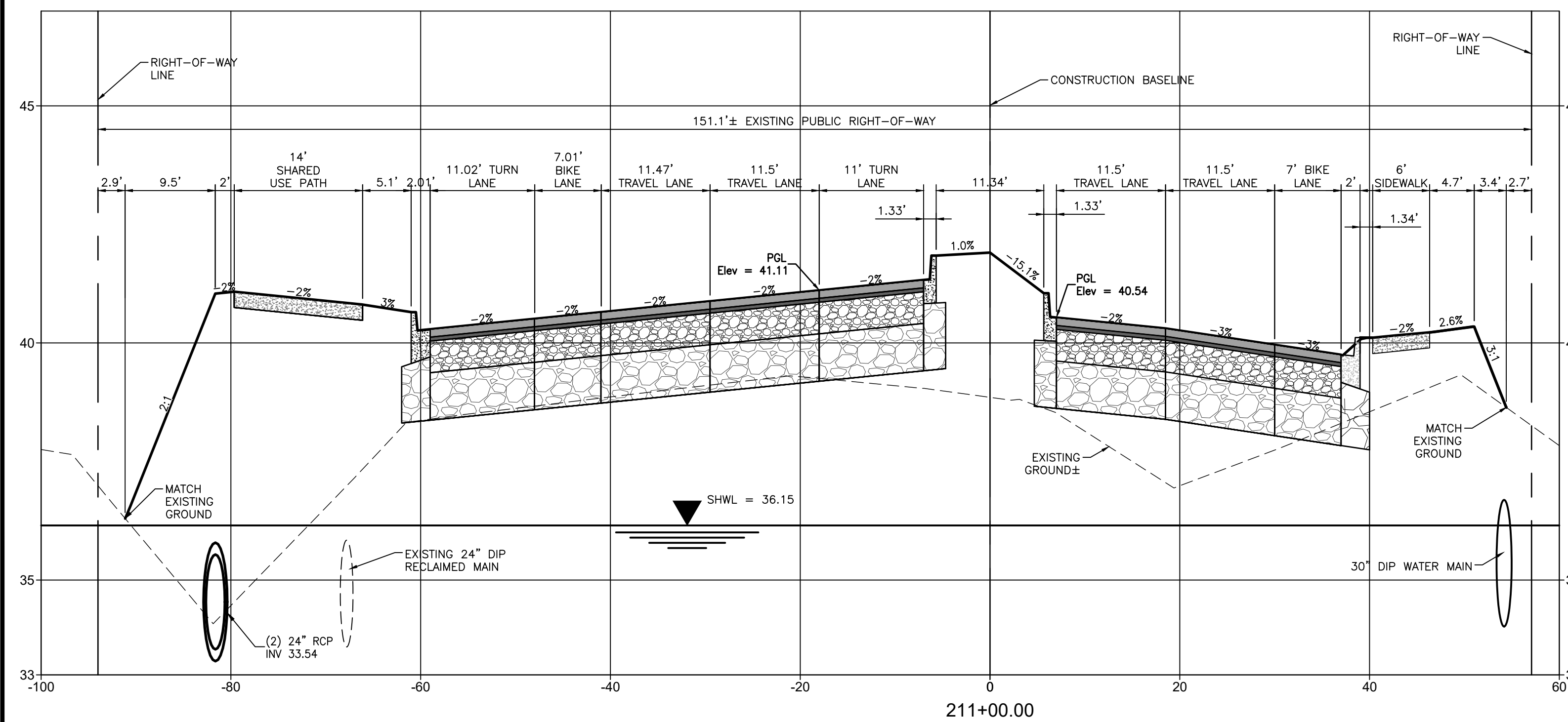
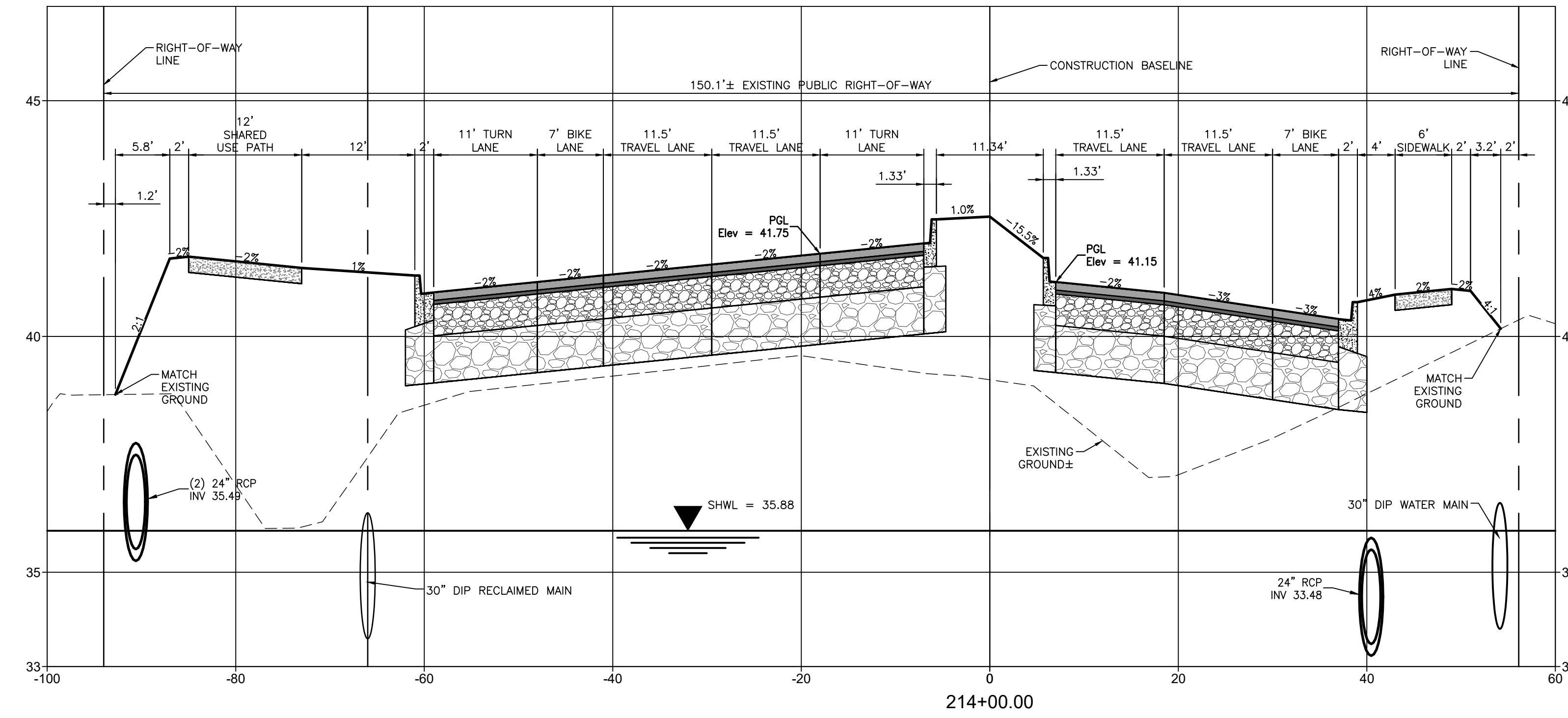
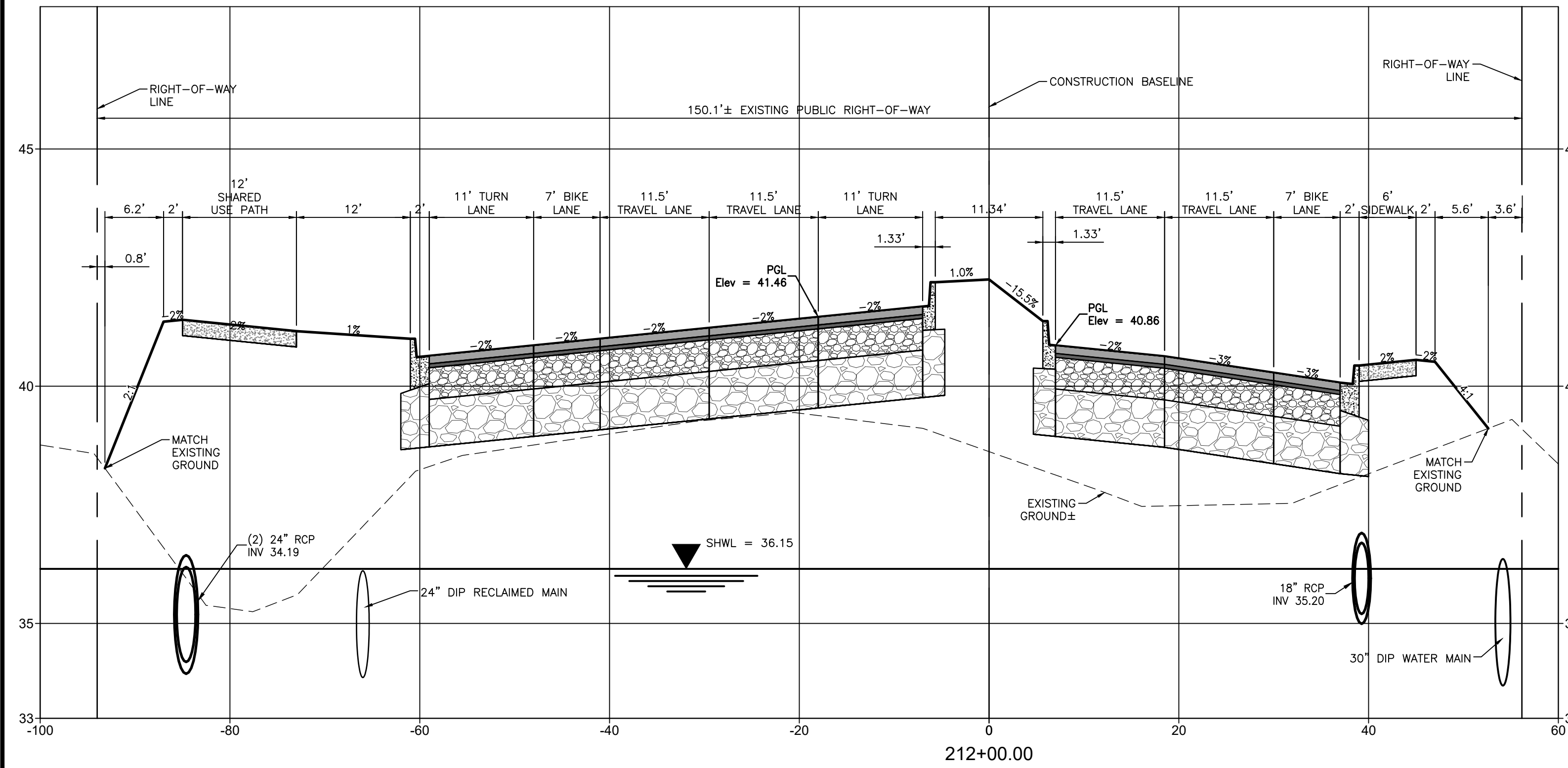
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC
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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	DATE	ACTIVITY	INITIALS/EMP. NO.	DATE
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						CHECKED BY:		
						CONTRACT ADMIN. BY:		
						WM APPROVED BY:		

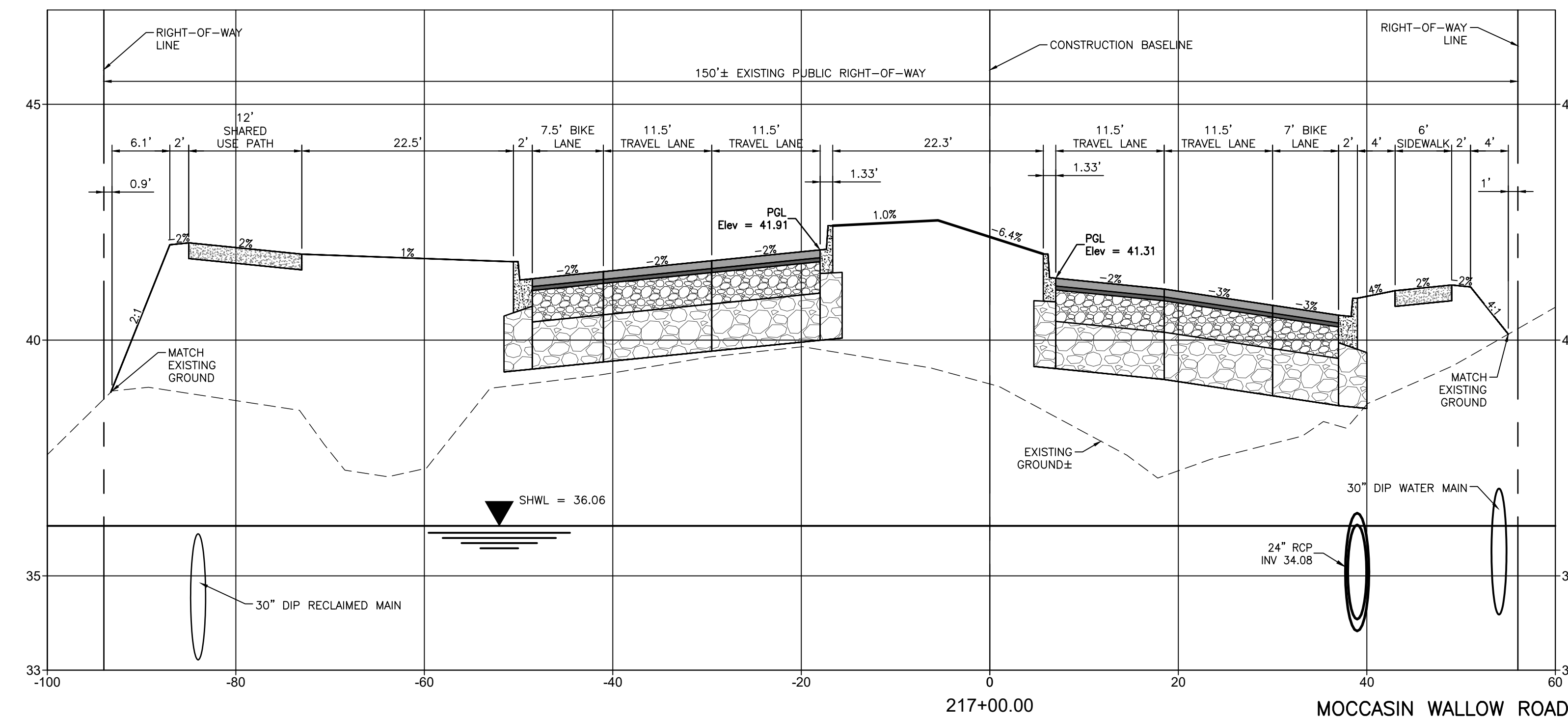
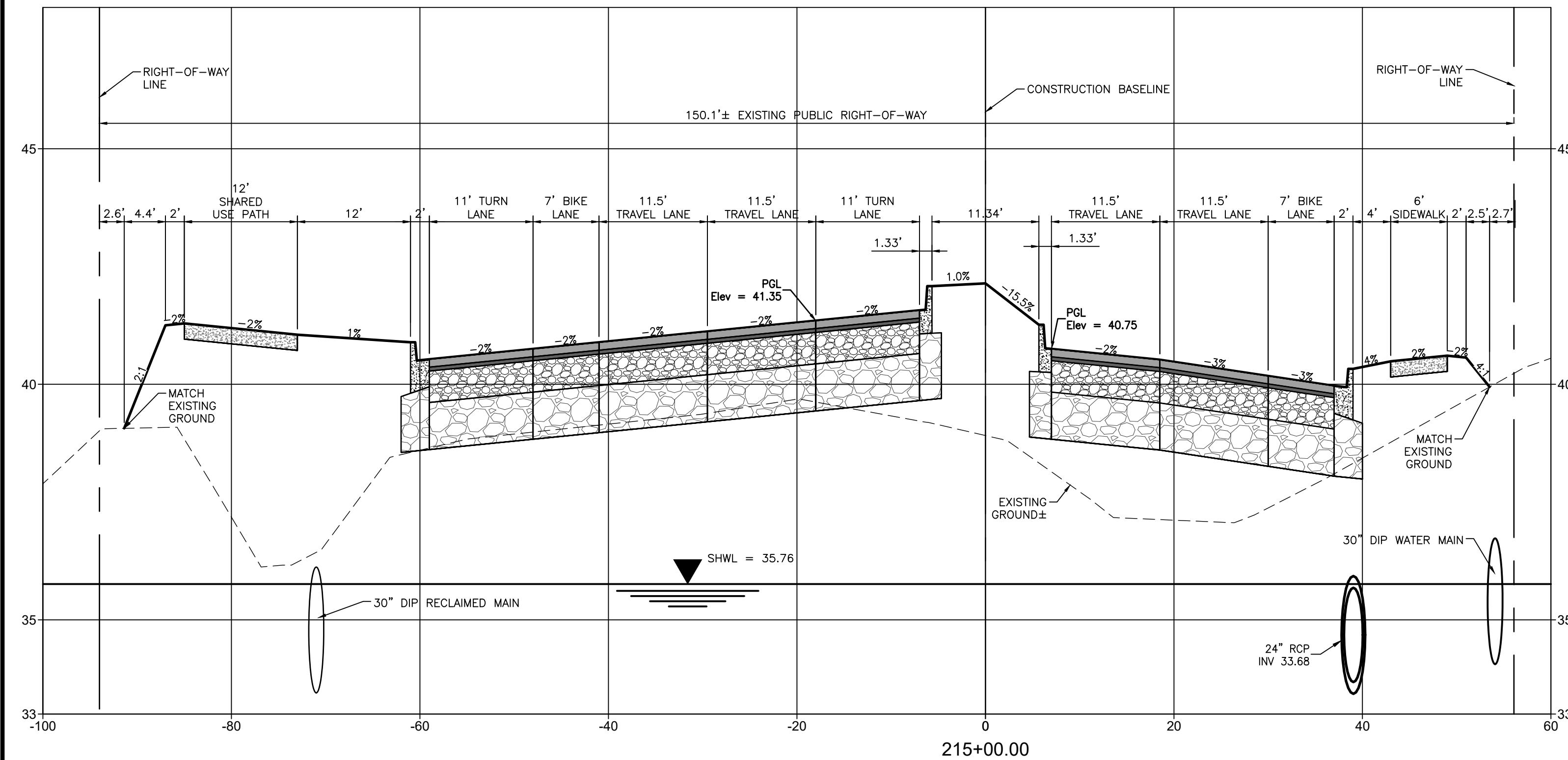
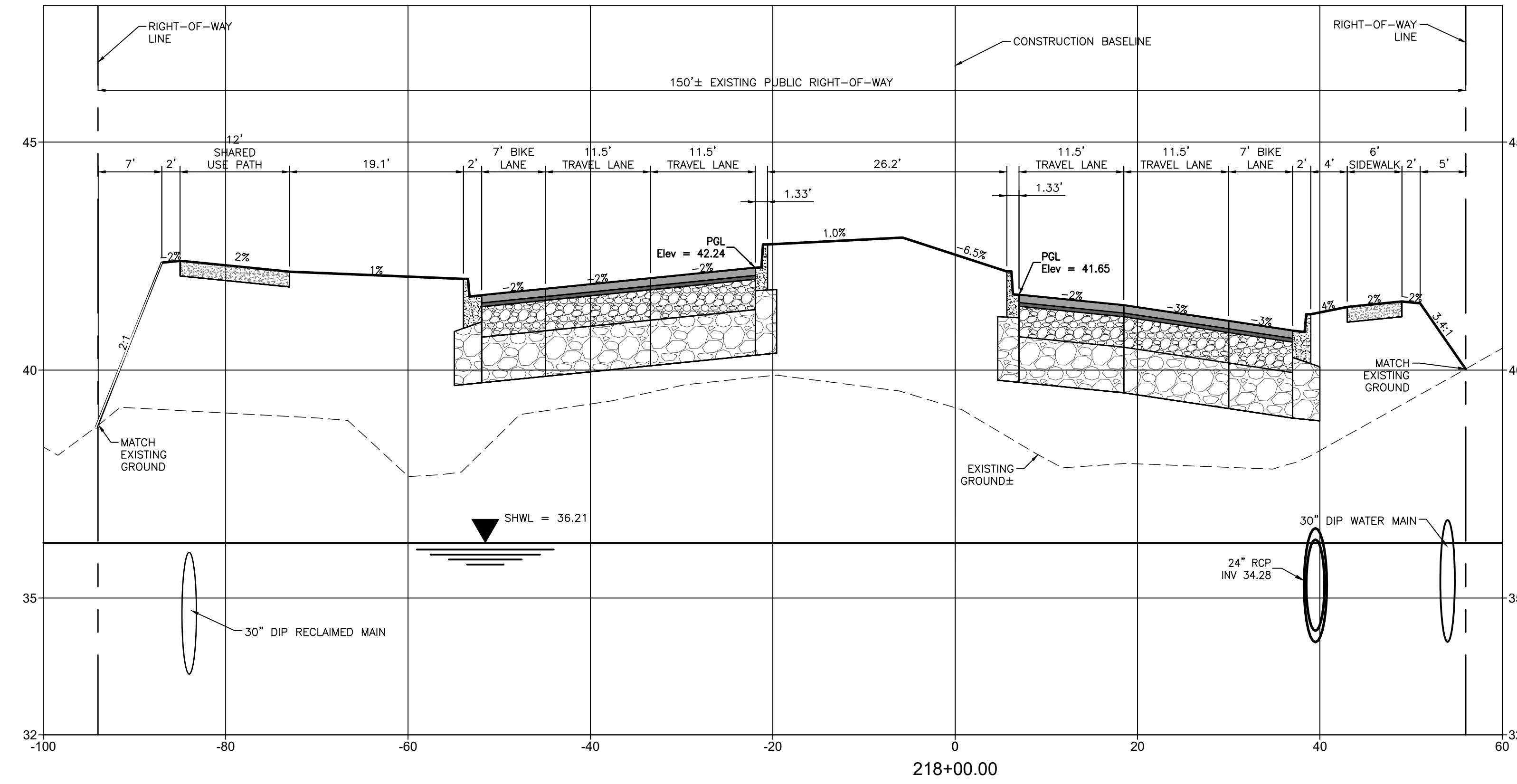
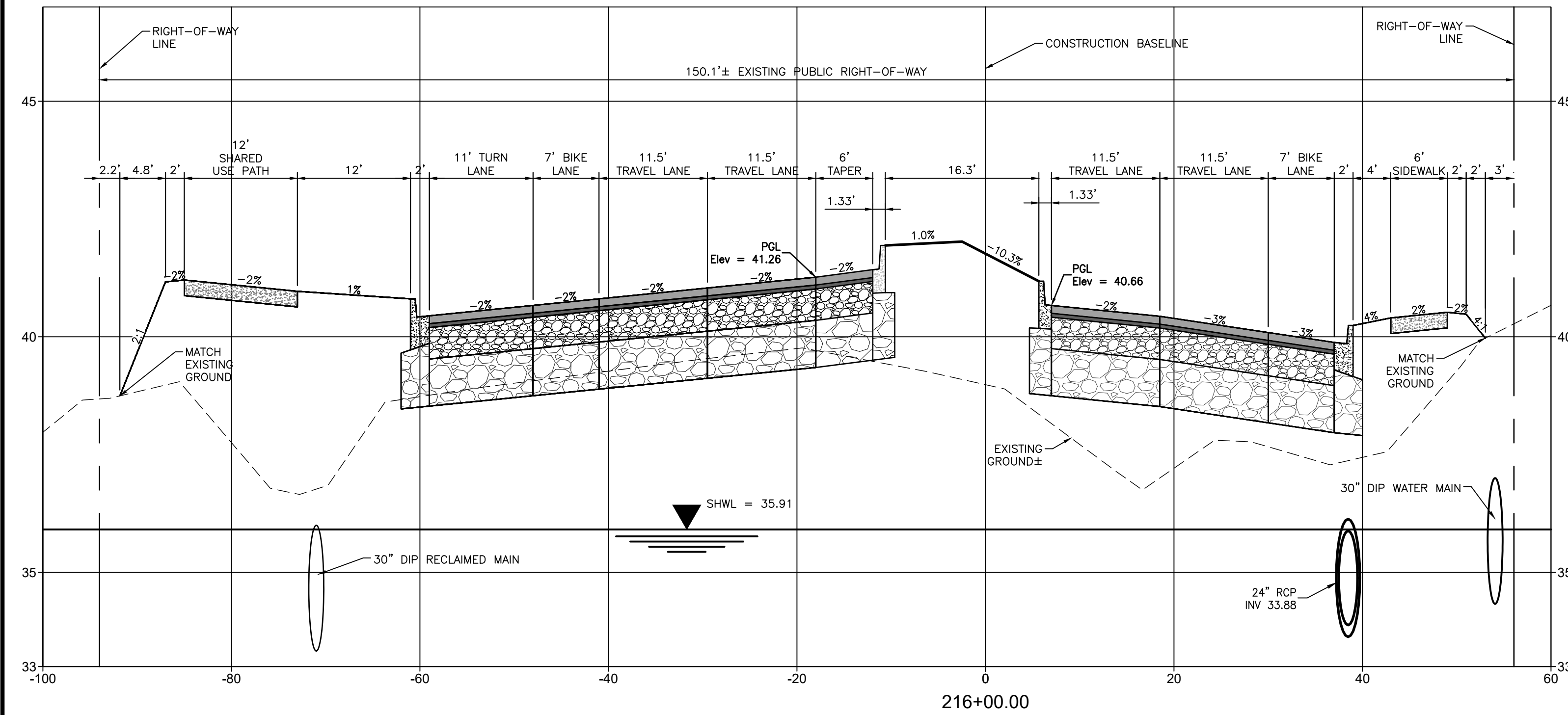


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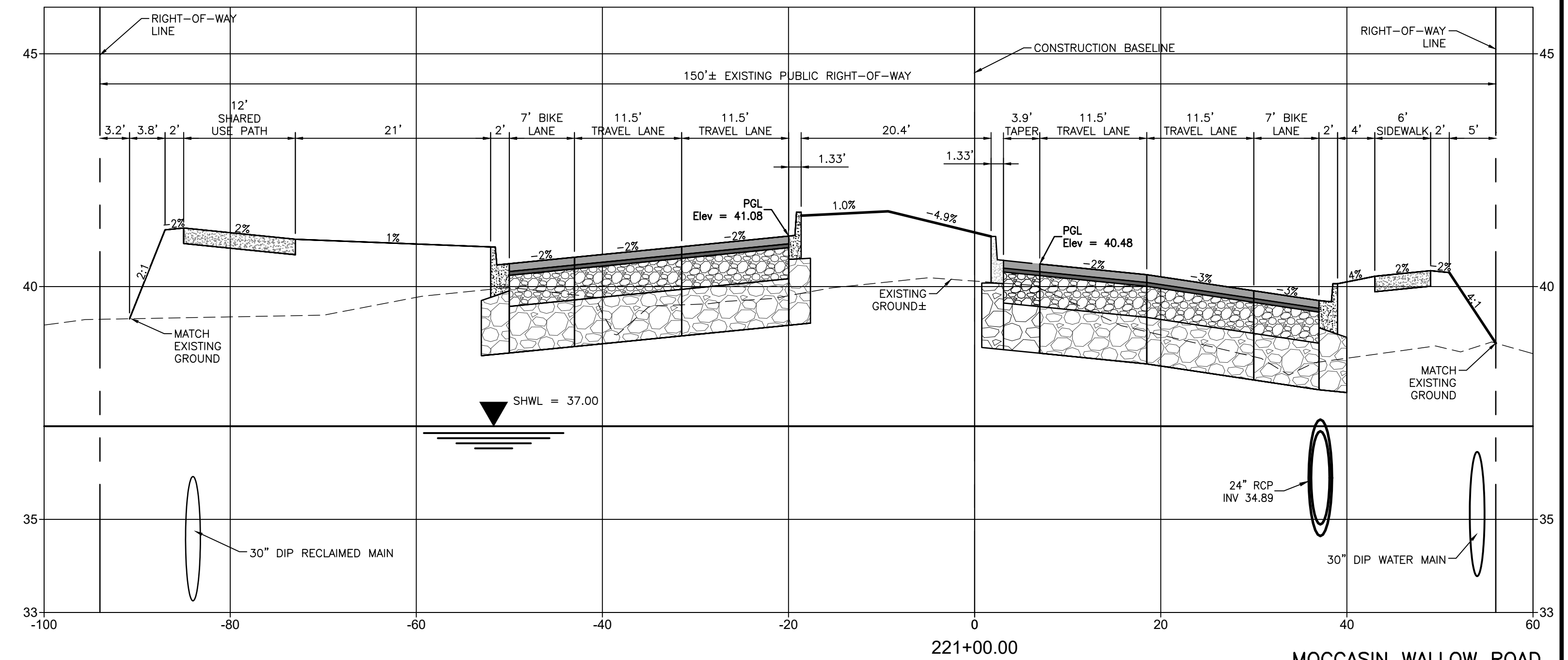
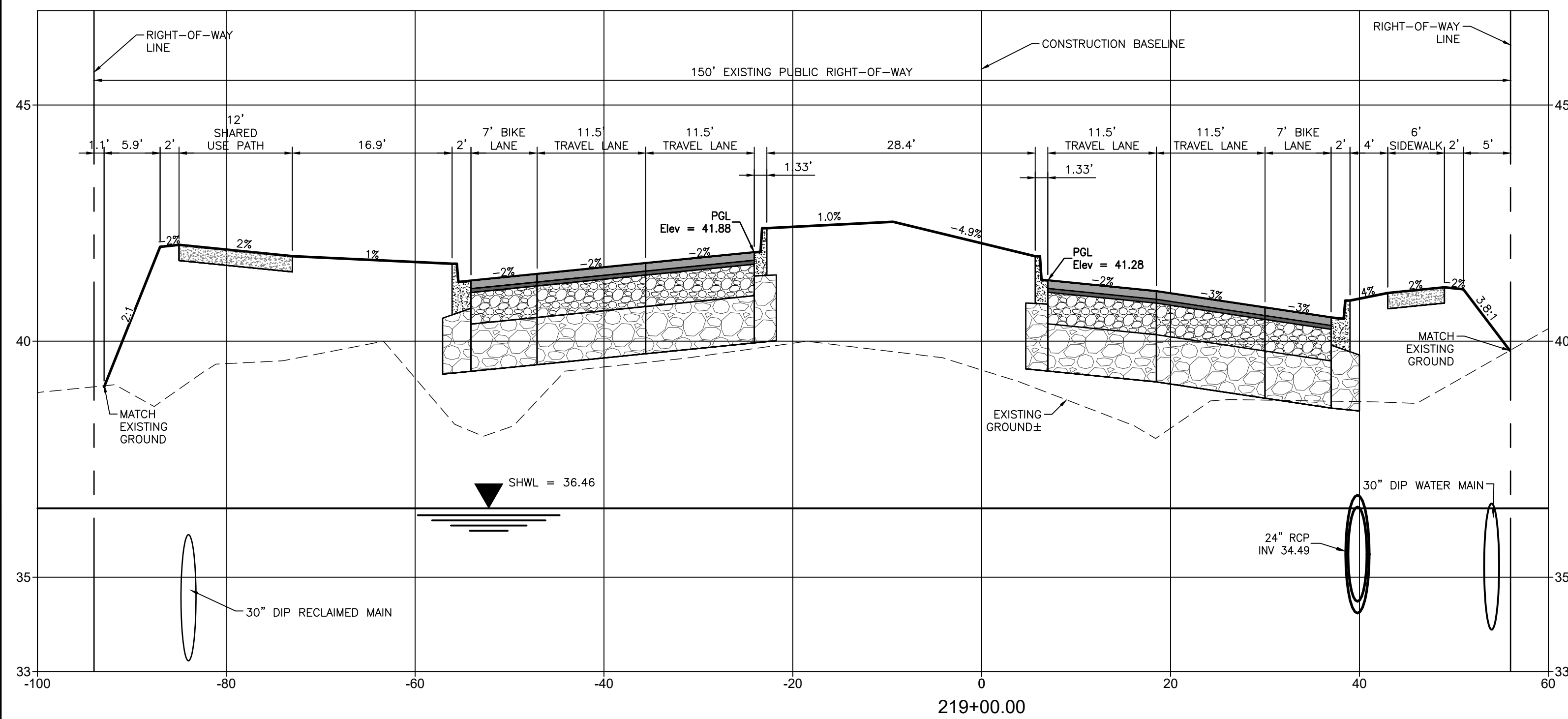
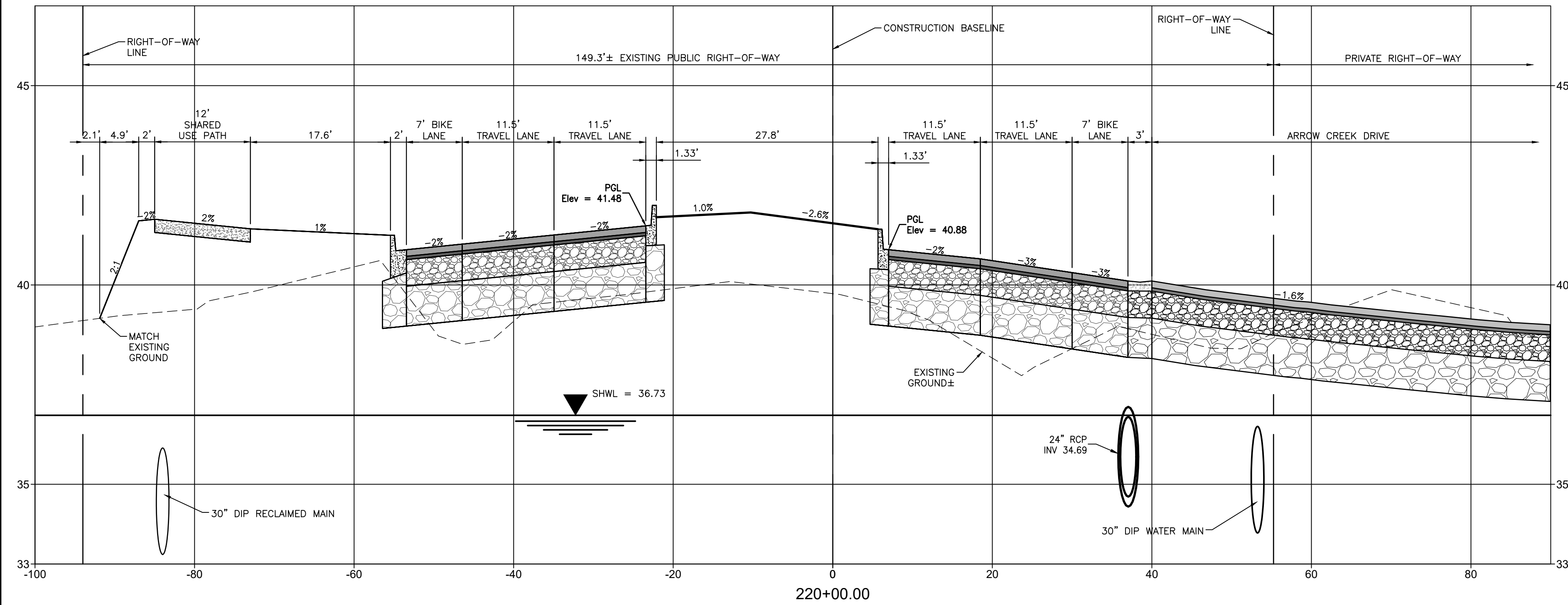
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET: 19 OF 20
 TWP: 33S
 RGE: 19E

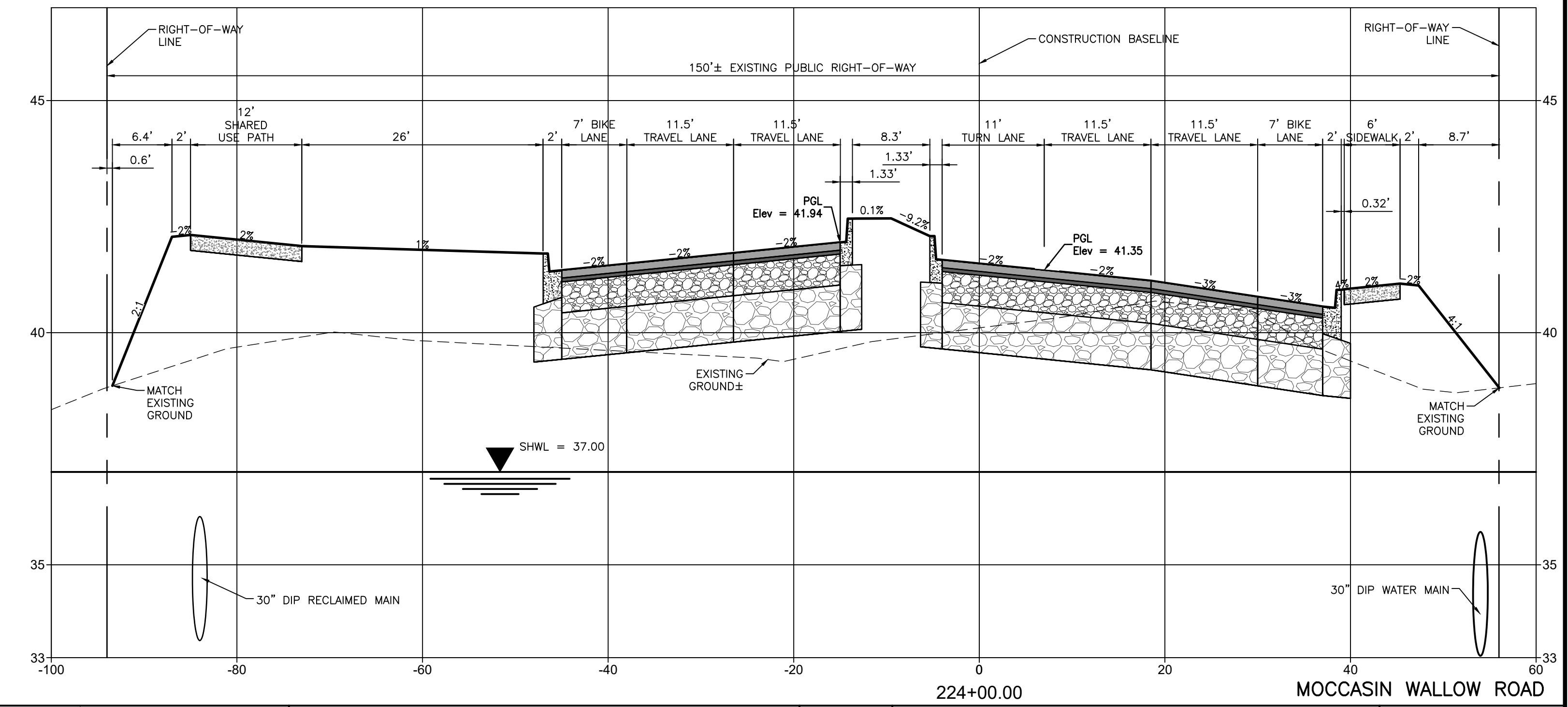
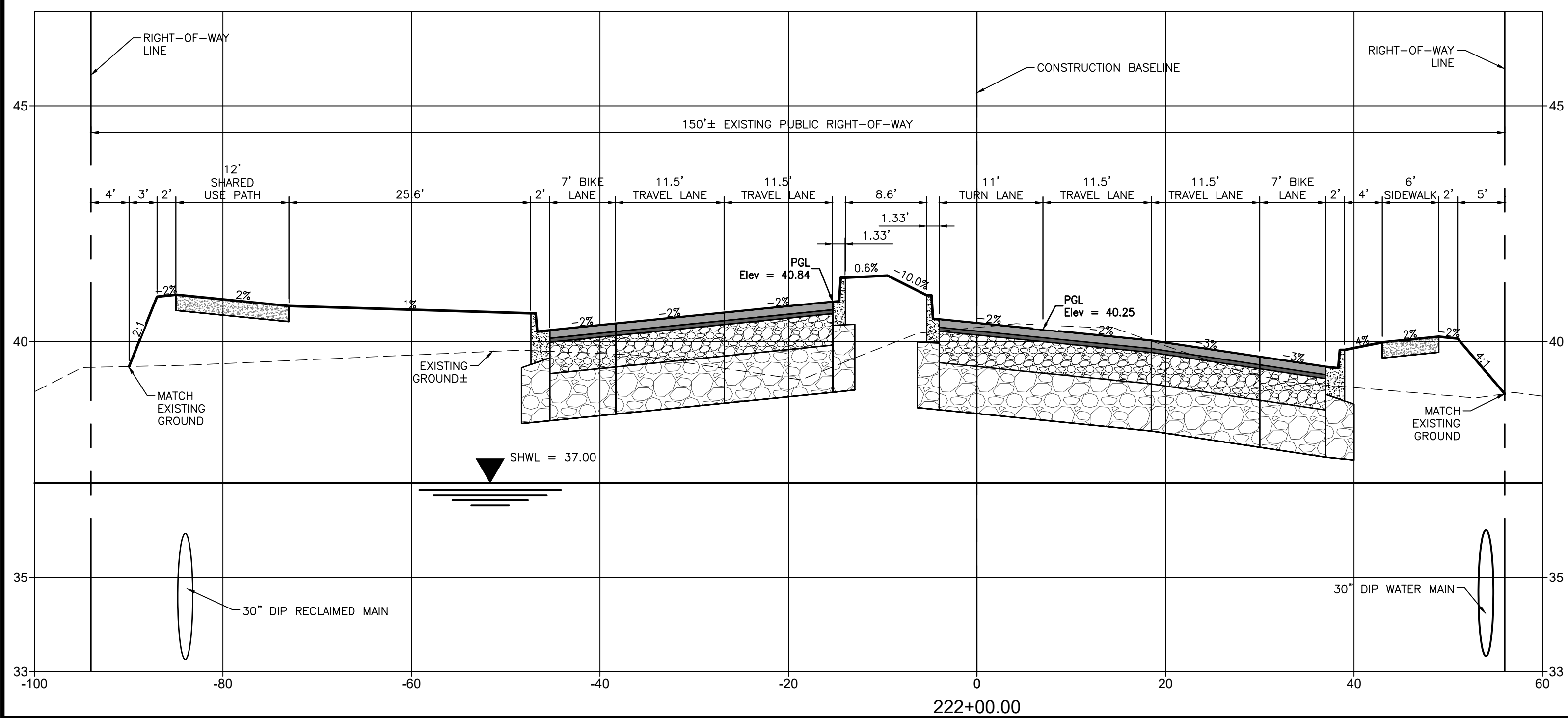
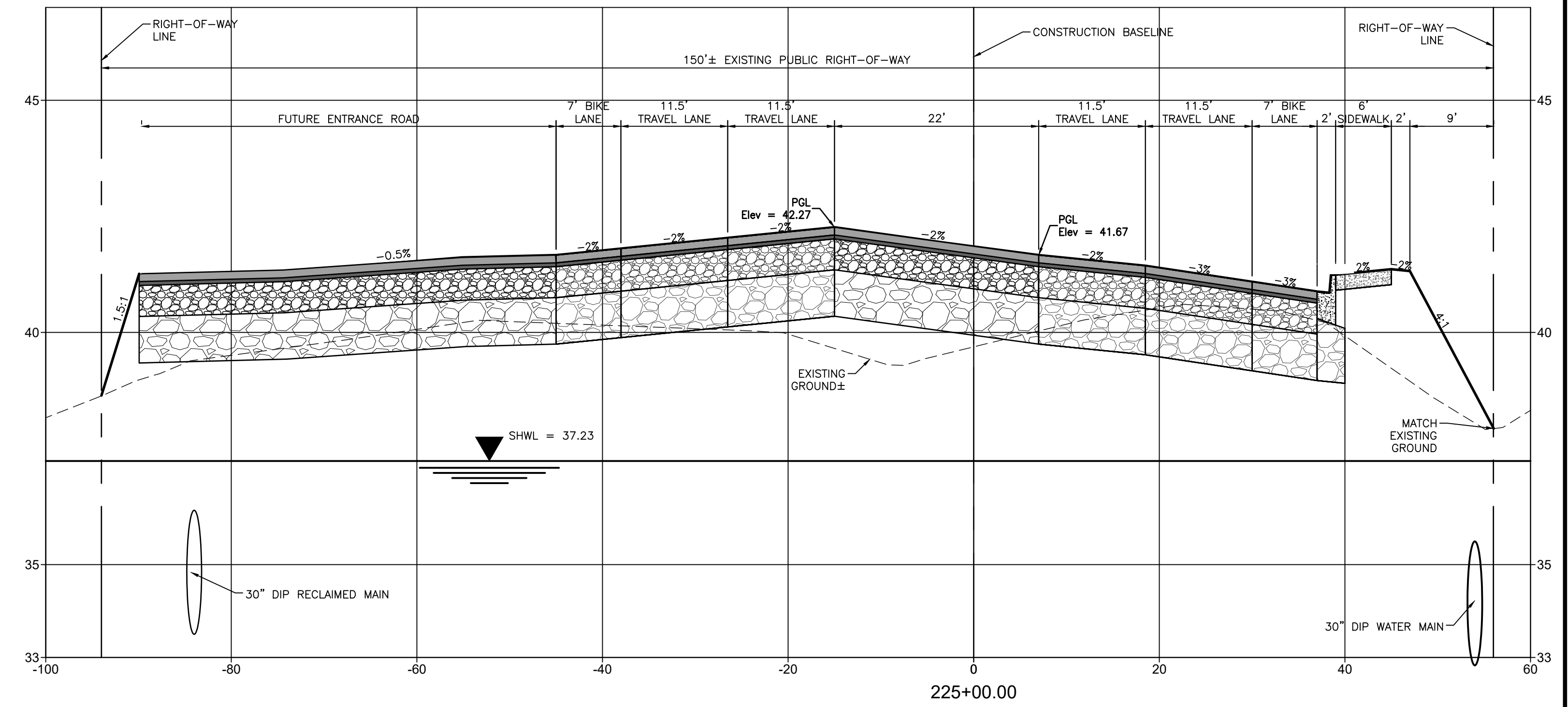
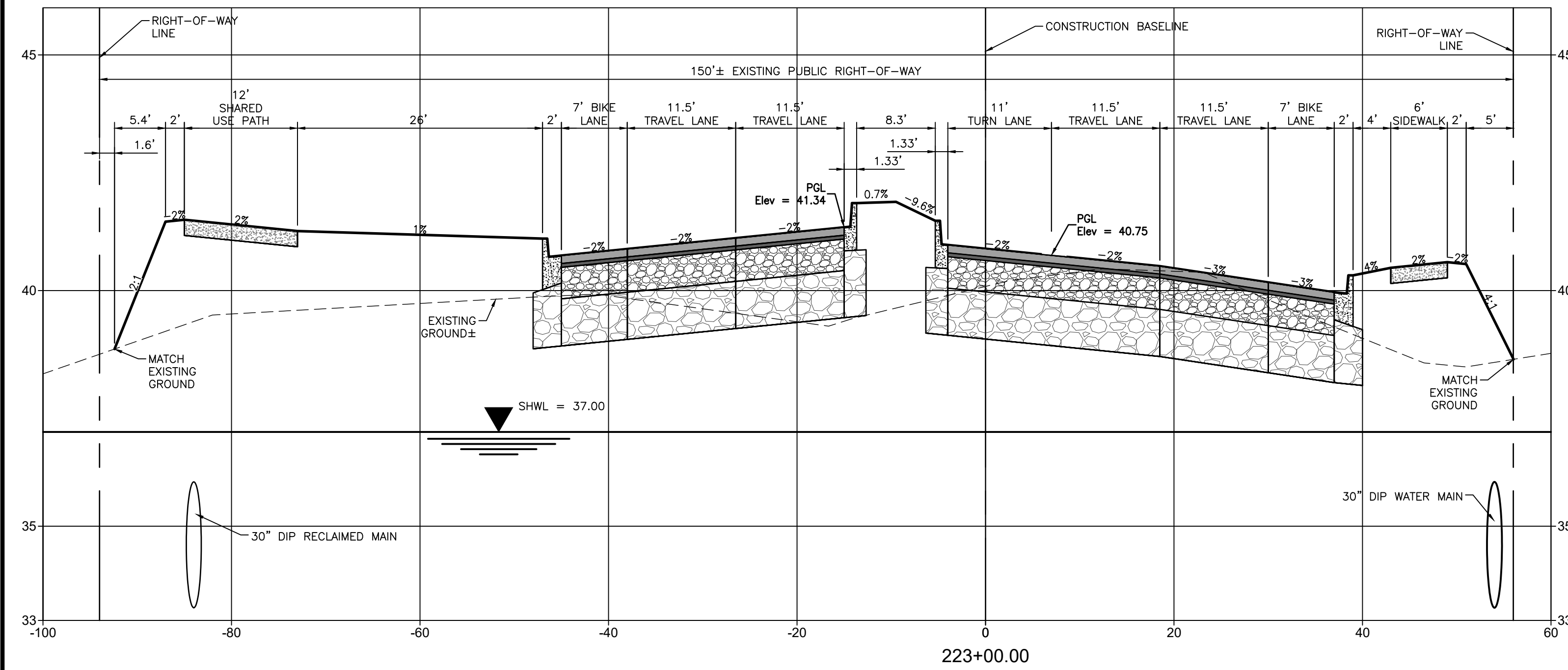
TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 57 OF 112
 ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-301SC



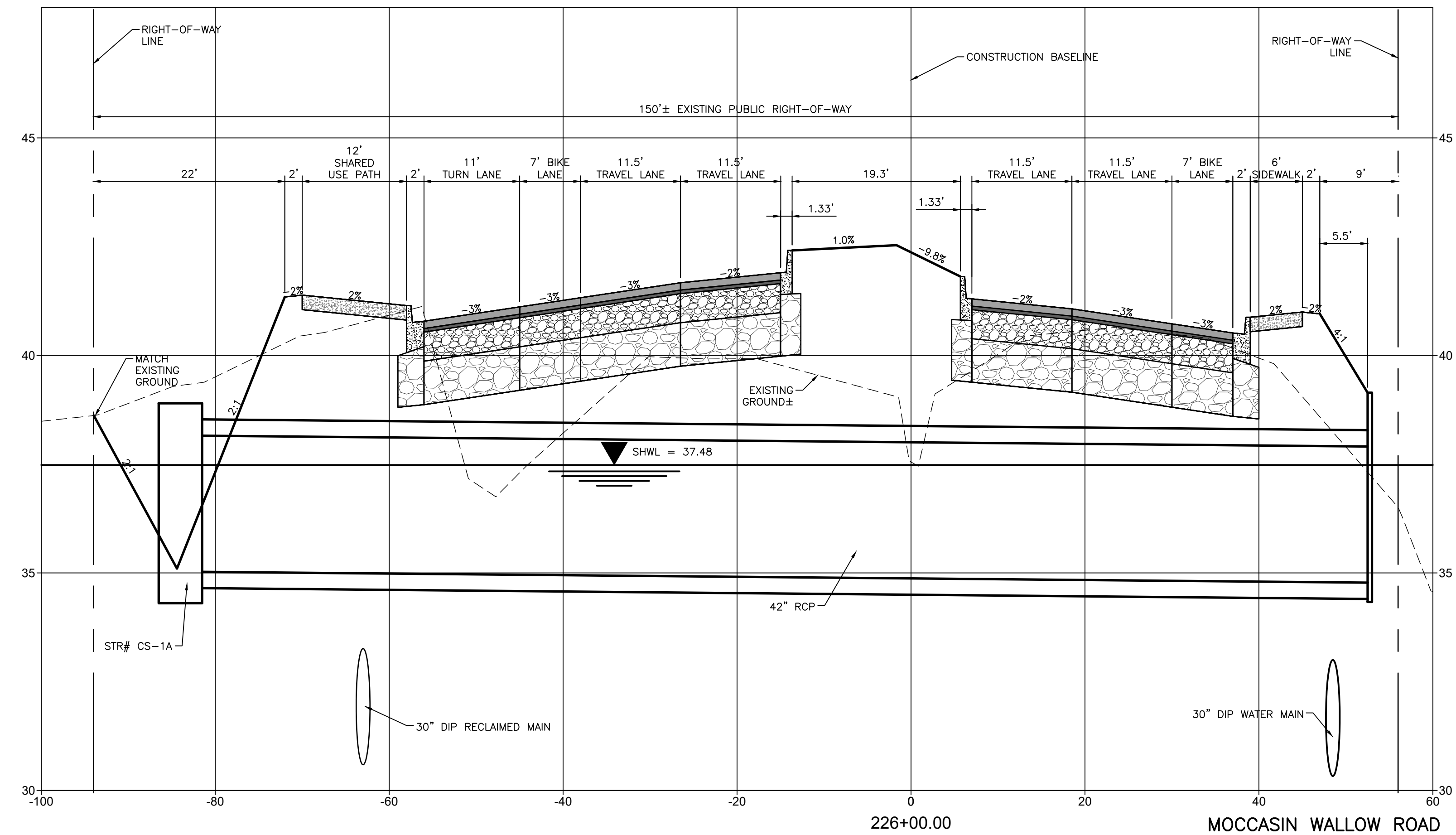
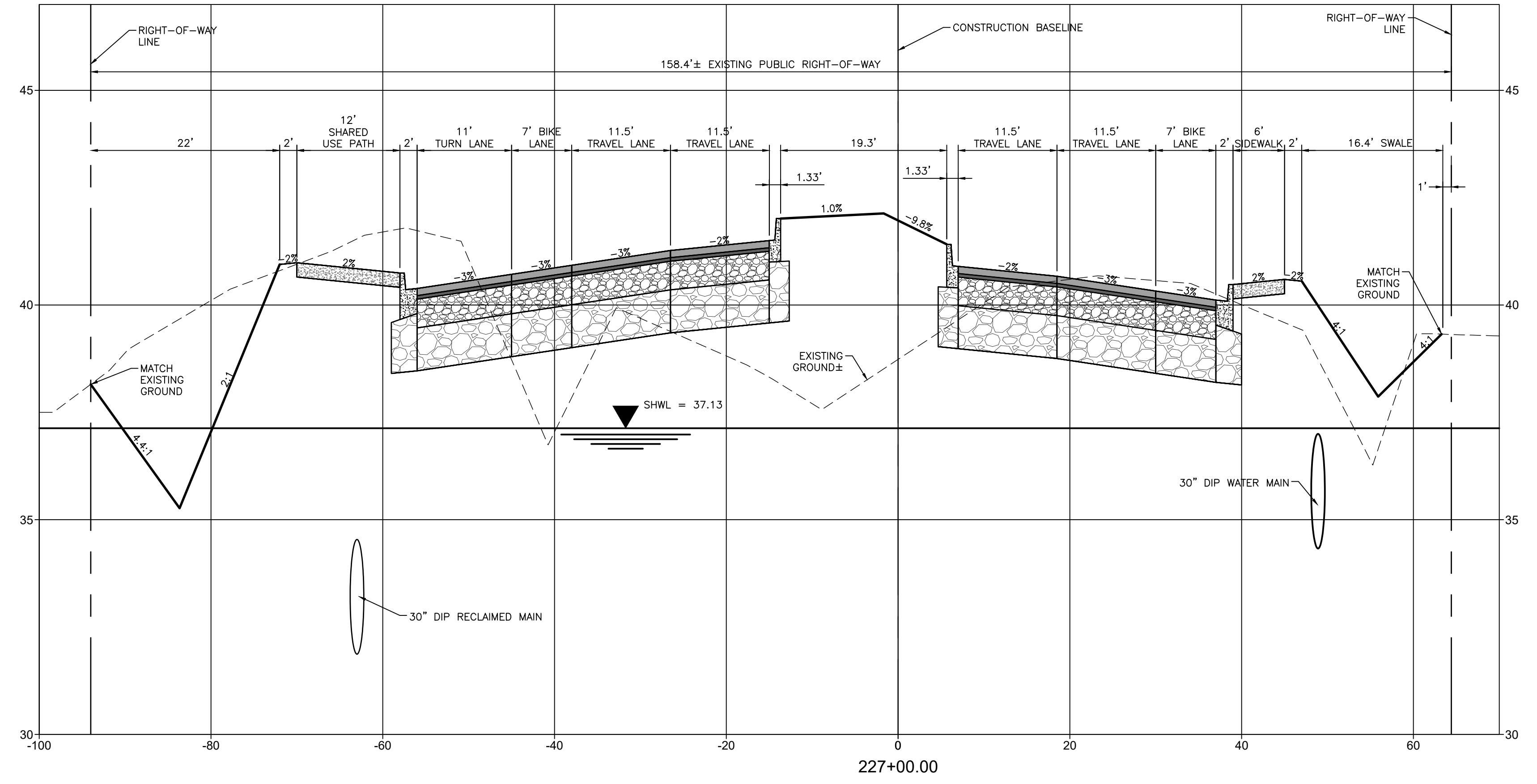
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' SHEET: 19 OF 29 CROSS-REFERENCE FILE NO.: 335_19E	TITLE: CROSS SECTIONS PROJECT NUMBER: 215615900 SHEET NUMBER: 58 OF 112
ACTIVITY: DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	INITIALS/EMP. NO. DATE 10/2020 10/2020	<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	



CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' SHEET: 59 OF 112		TITLE: CROSS SECTIONS PROJECT NUMBER: 215615900 SHEET NUMBER: 59 OF 112	
ACTIVITY: DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		Stantec 6700 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com	



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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																															
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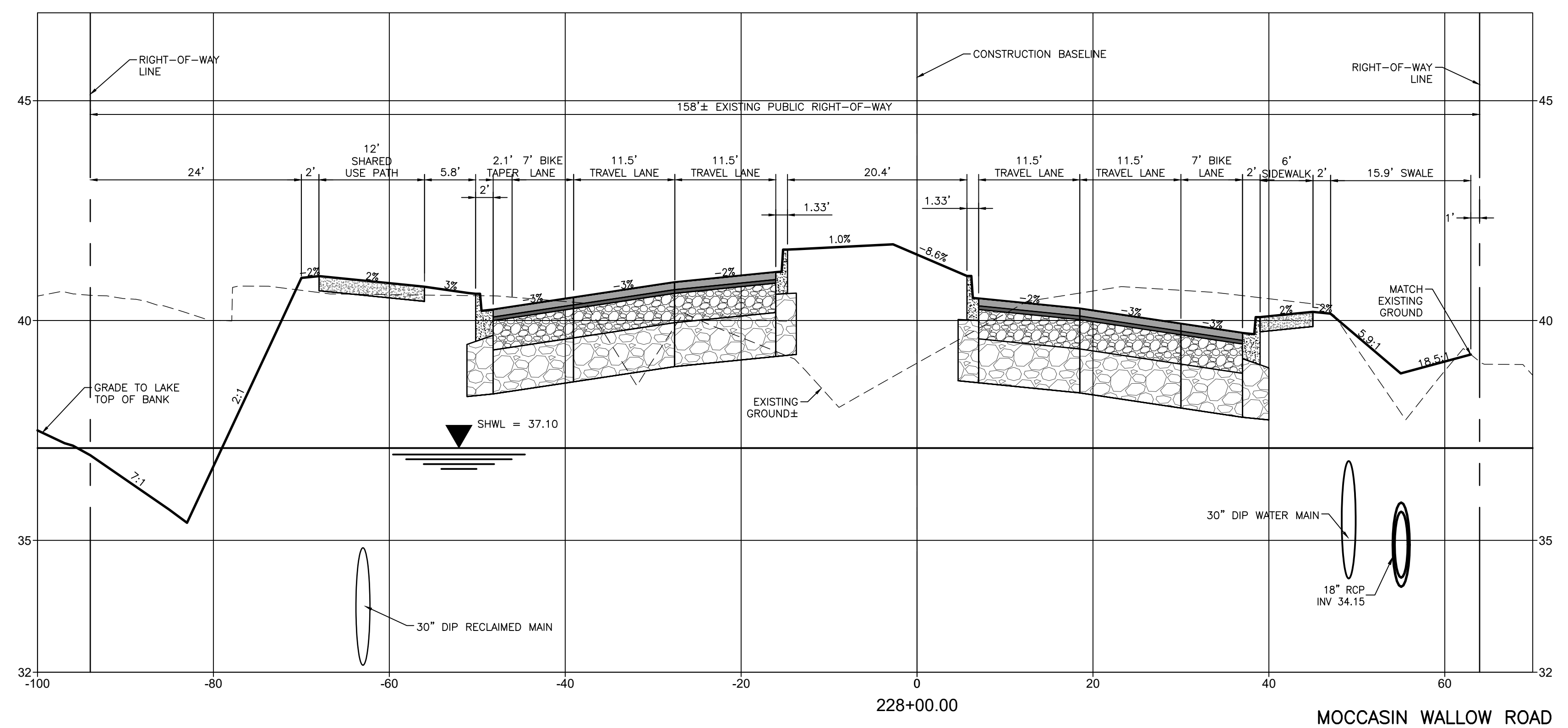
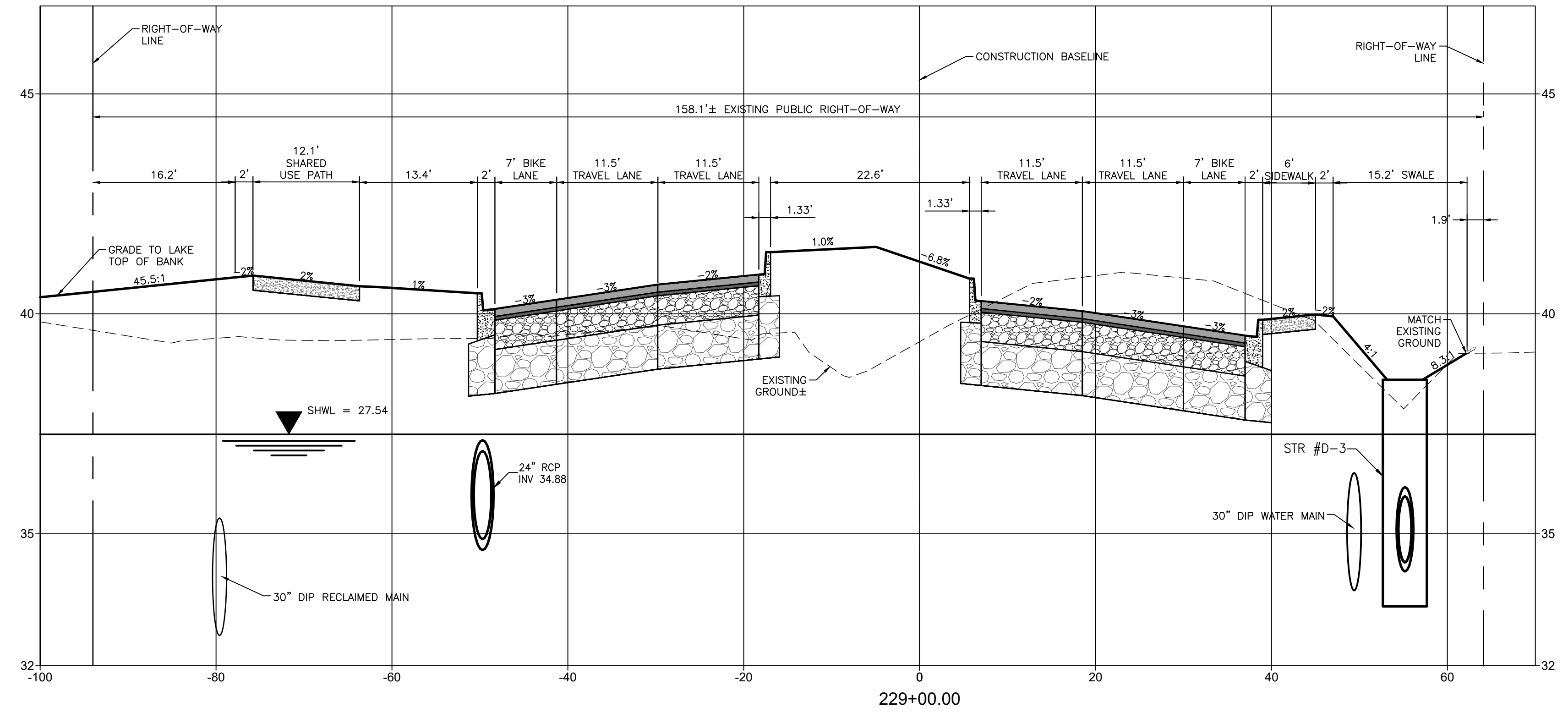
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-302SC
 SHEET NUMBER: 61 OF 112



MOCCASIN WALLOW ROAD

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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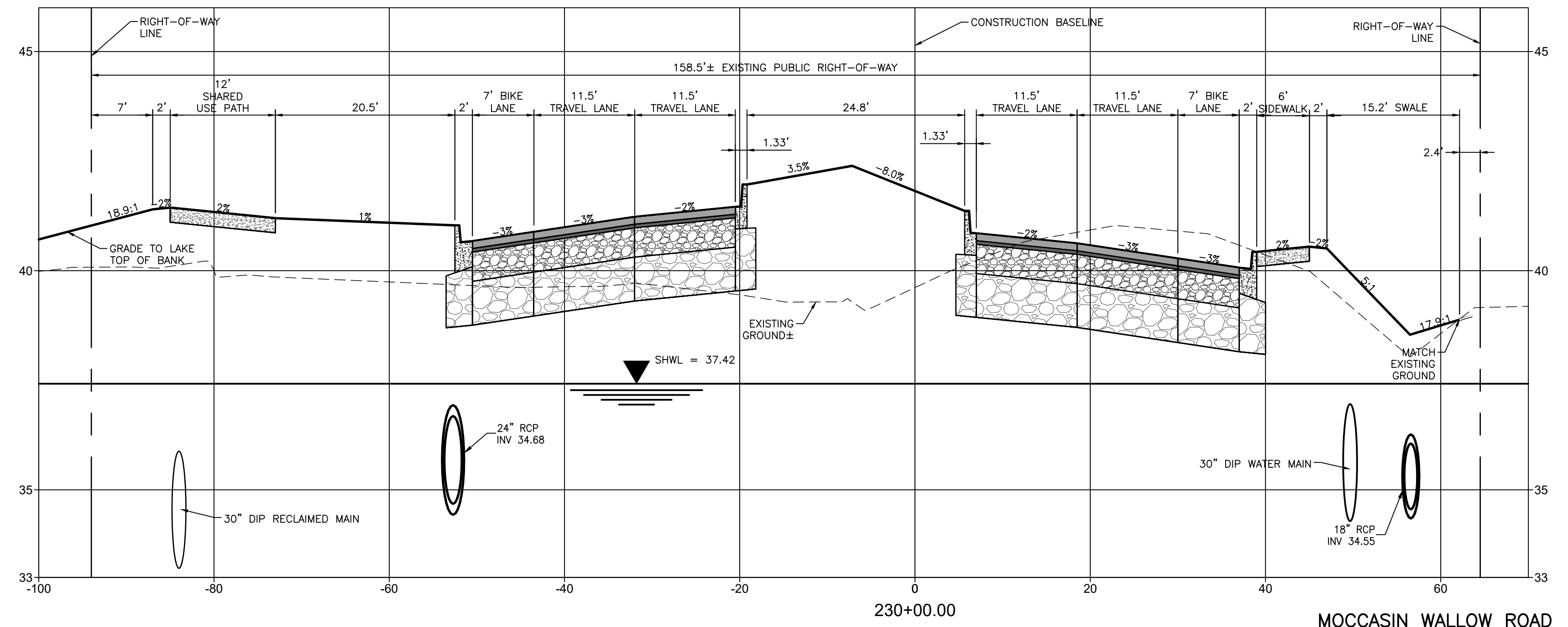
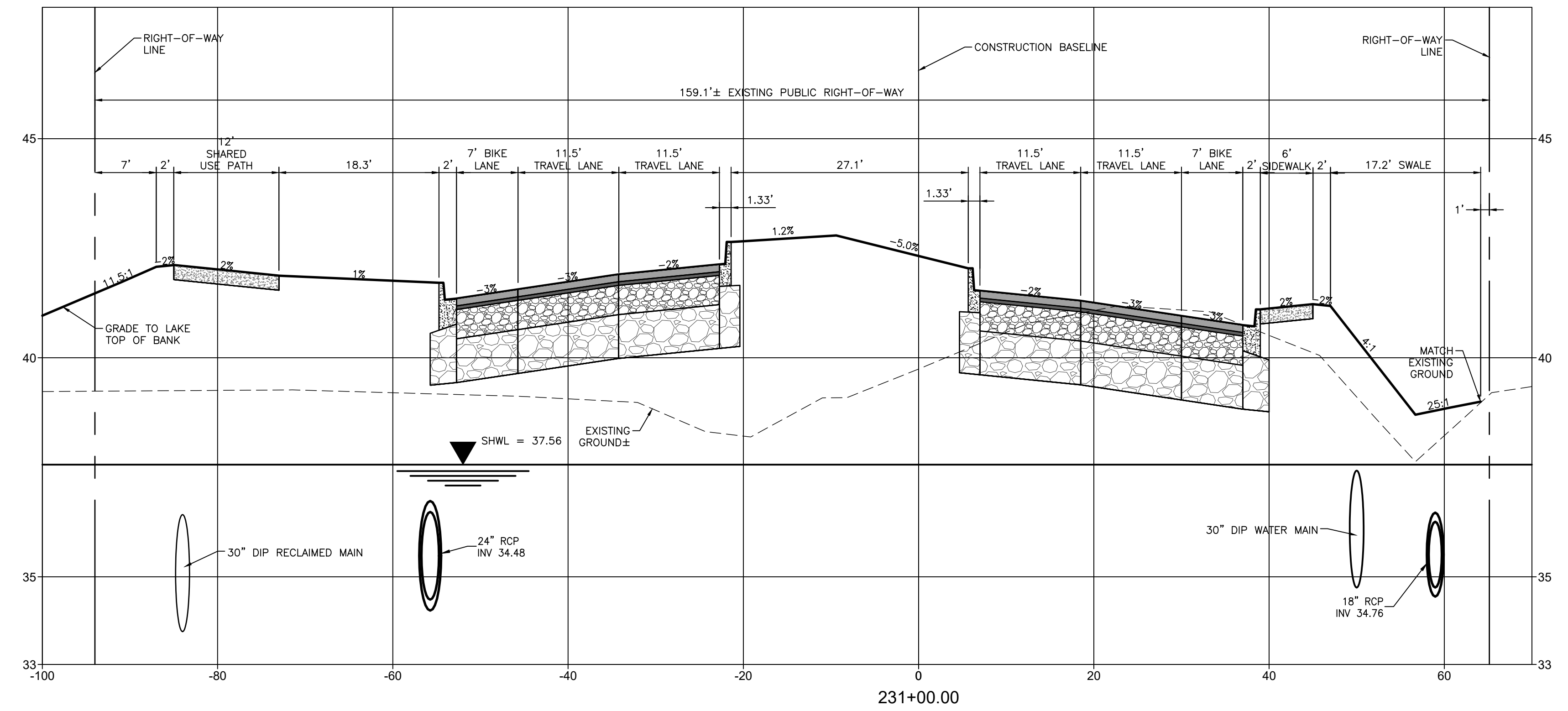
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET: 19 OF 29
 TWP: 33S
 RGE: 19E

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 62 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-302SC
 SHEET NUMBER: 62 OF 112



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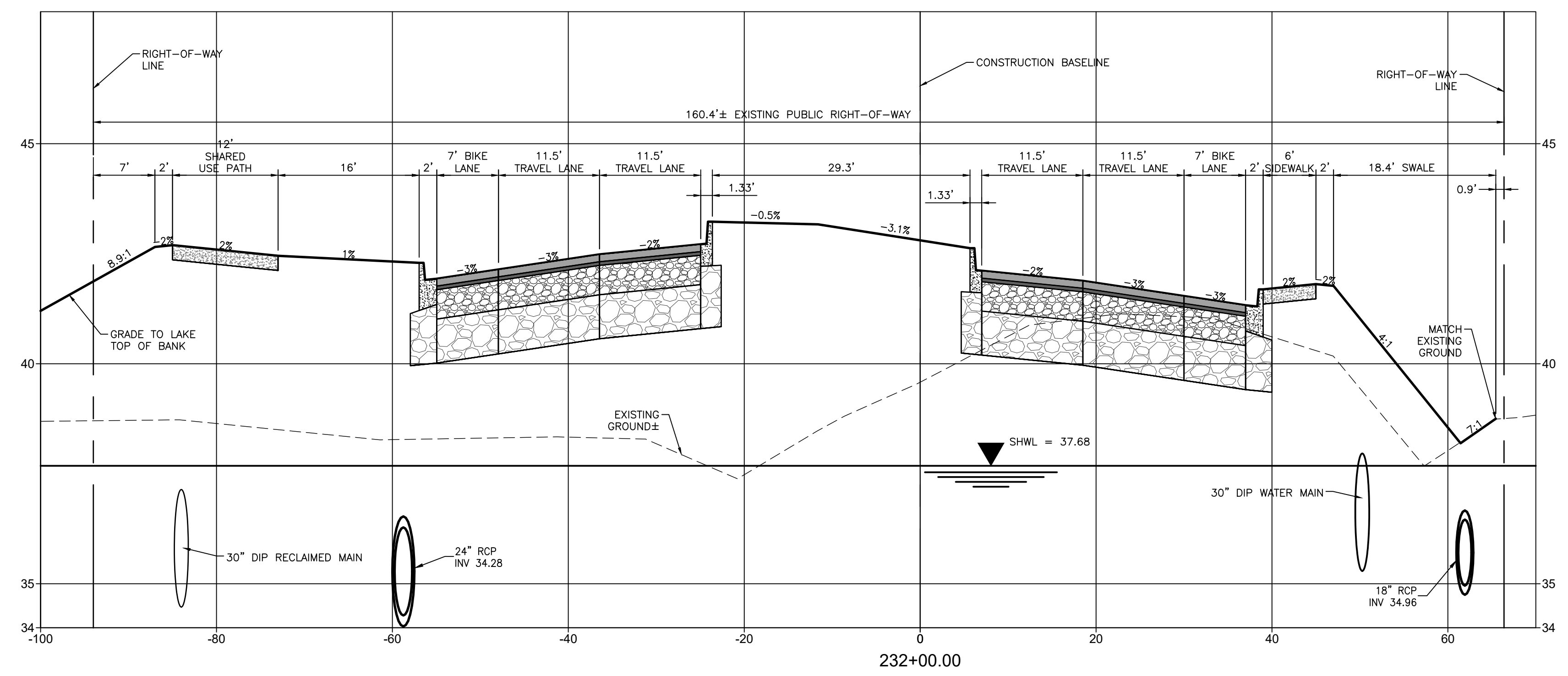
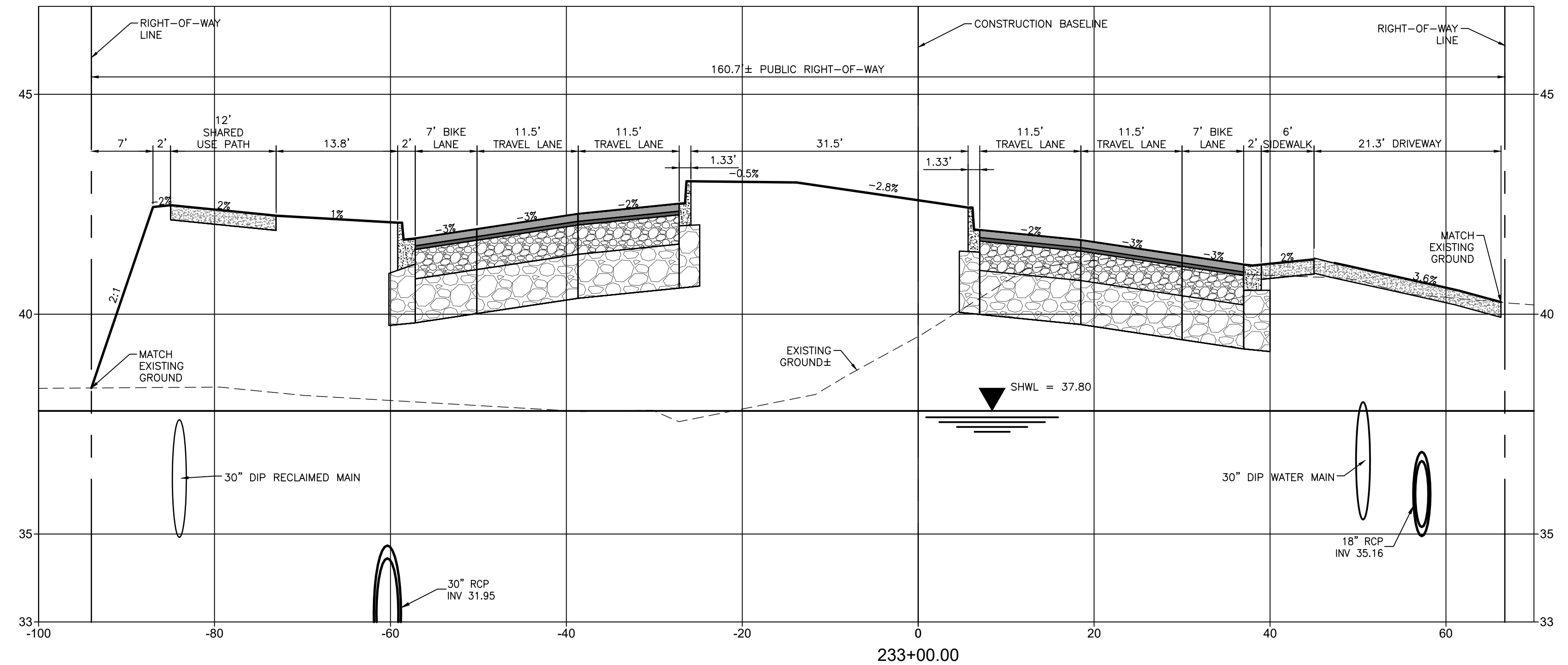
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'

TITLE: CROSS SECTIONS

PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-302SC
 SHEET NUMBER: 63 OF 112



MOCCASIN WALLOW ROAD

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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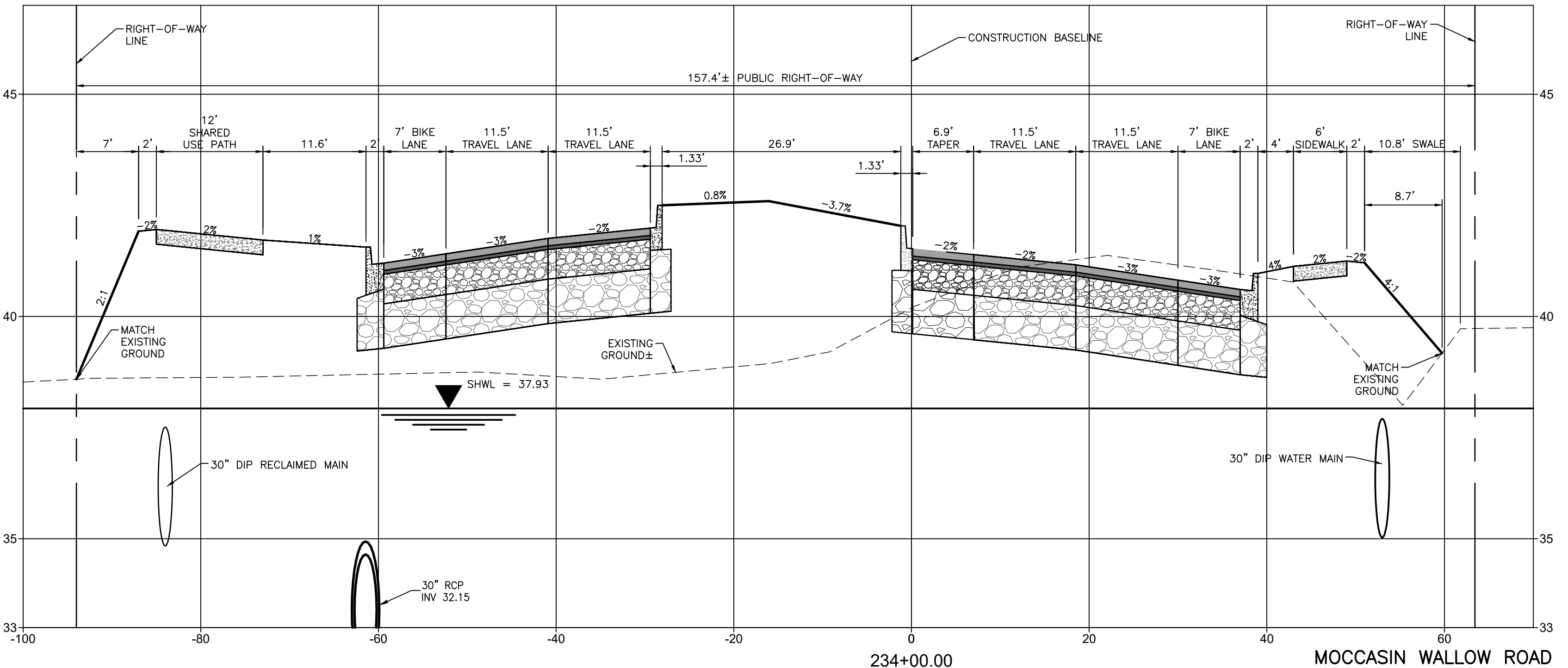
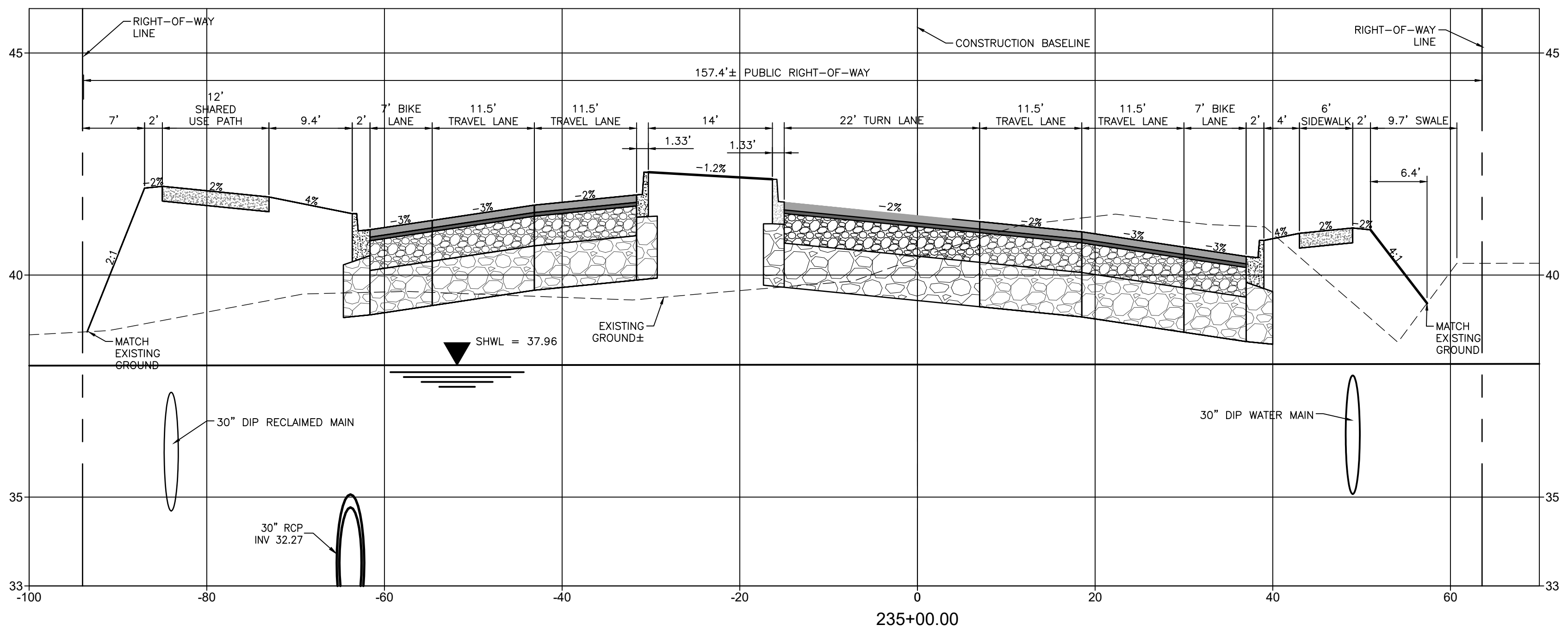
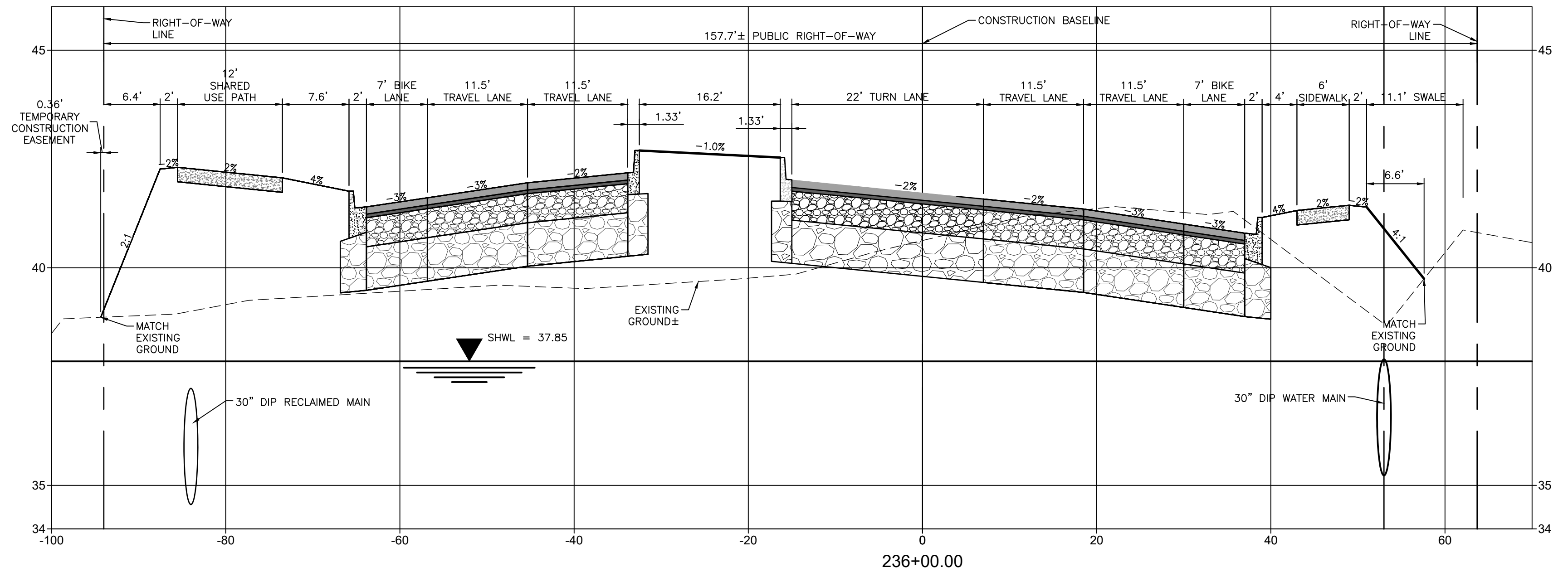
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/20/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET: 19 OF 29
 TWP: 33S
 RGE: 19E

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 64 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-302SC
 SHEET NUMBER: 64 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

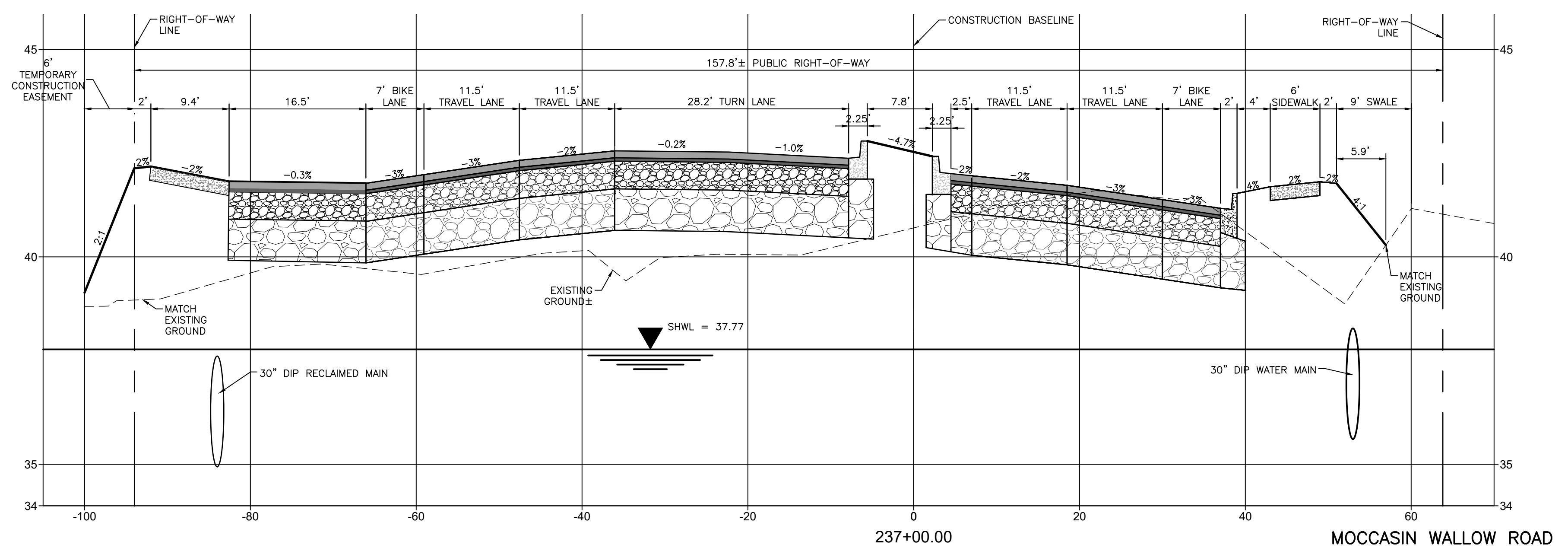
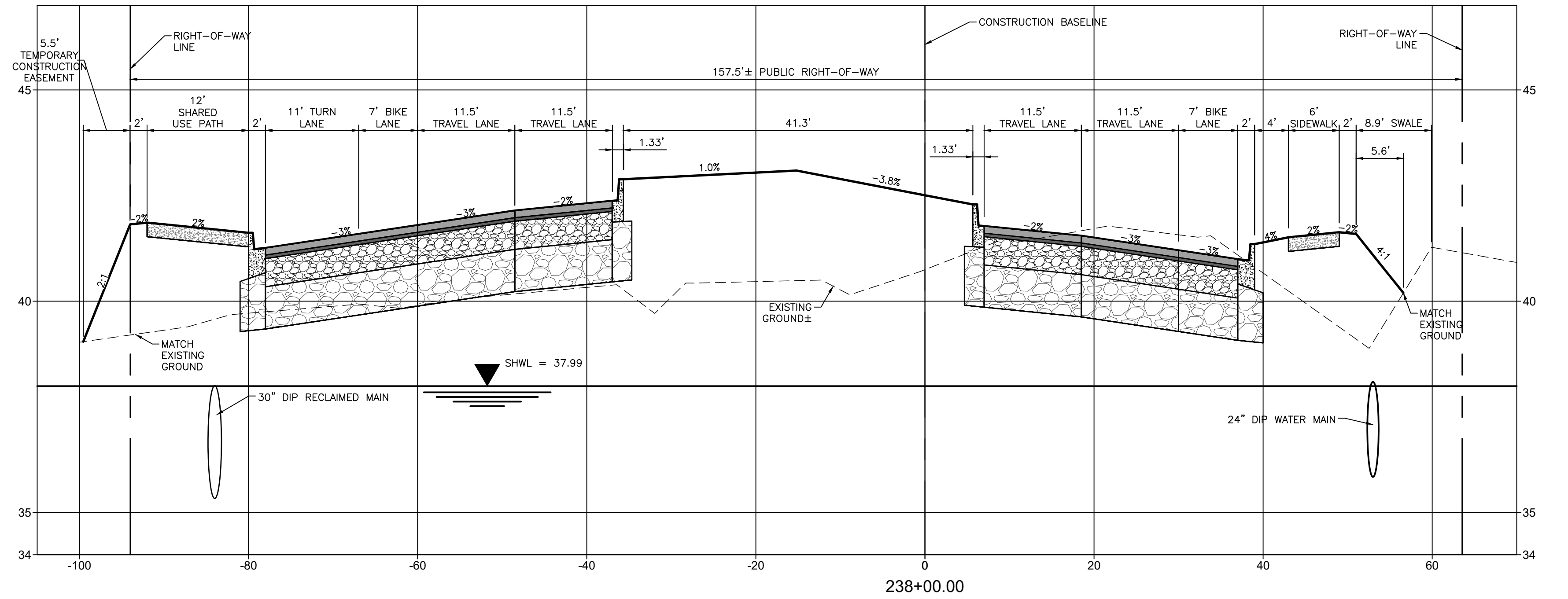
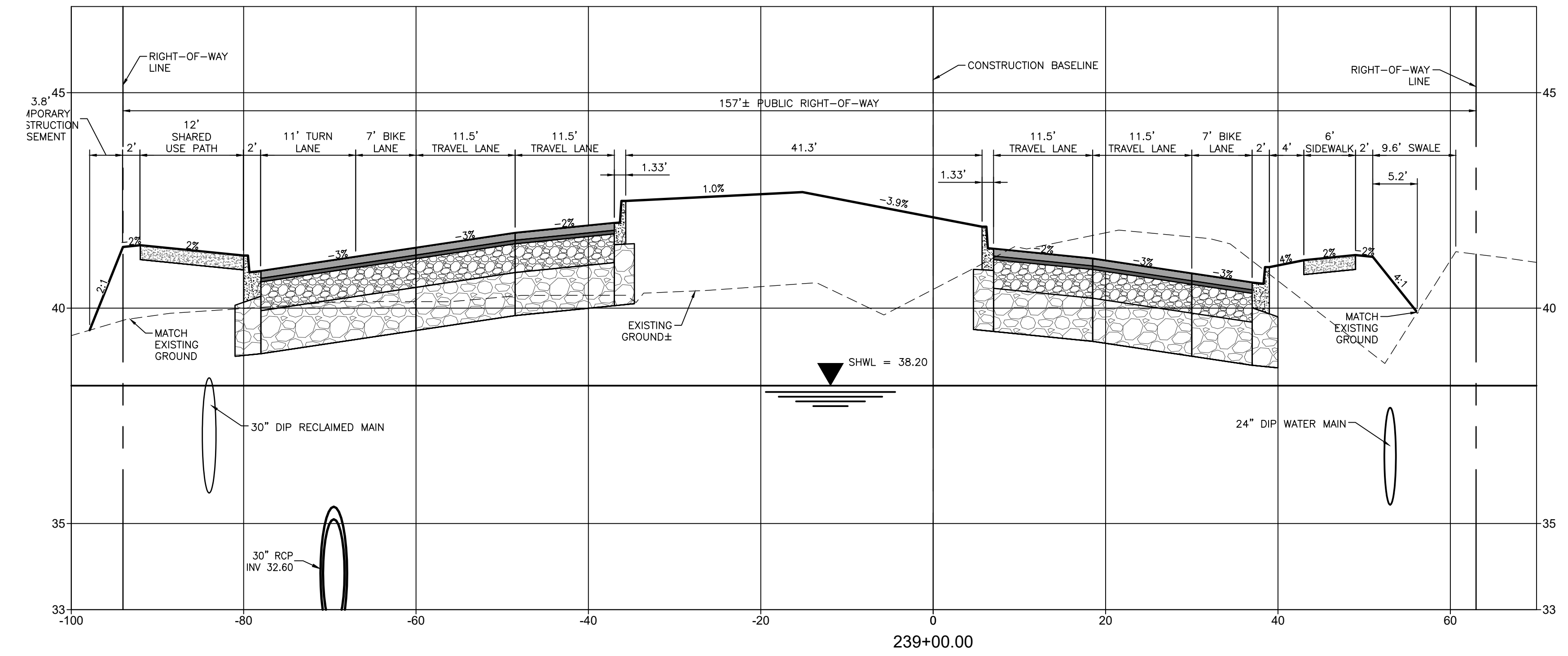
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 10'
 VERTICAL SCALE: 1" = 5'
 SHEET: 19 OF 20
 DATE: 10/2020

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 65 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

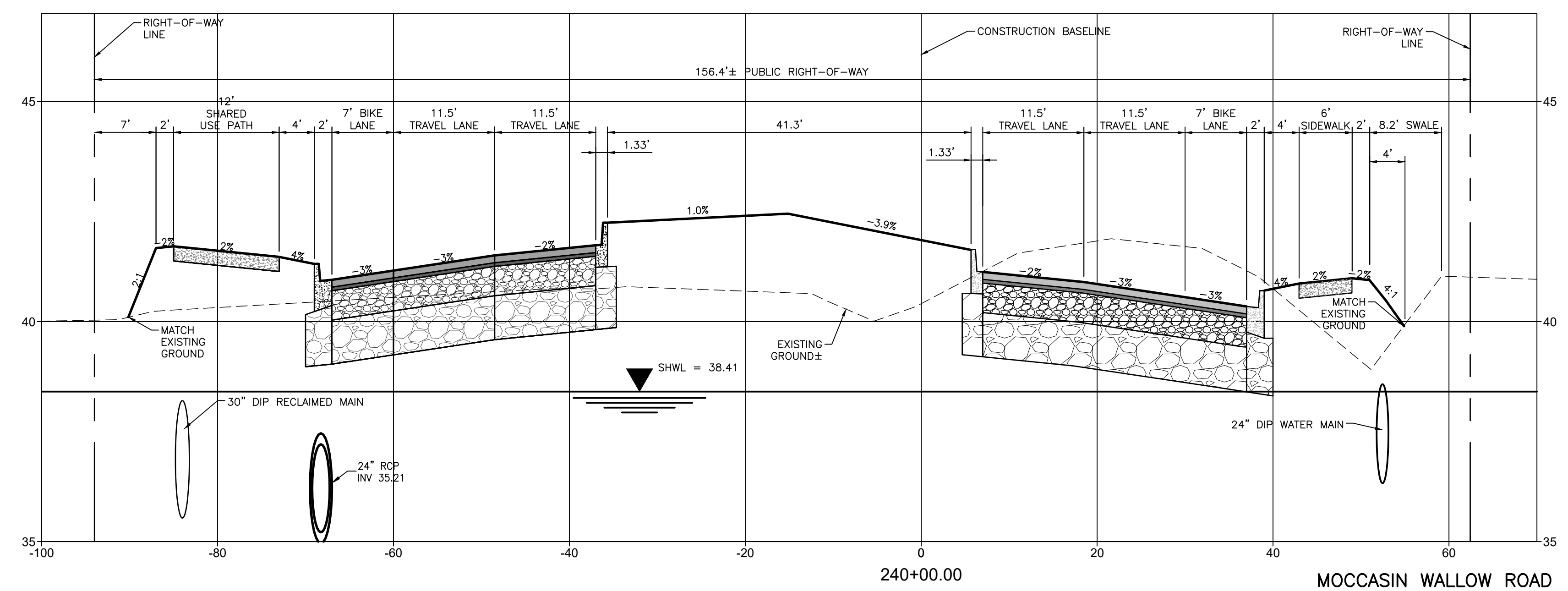
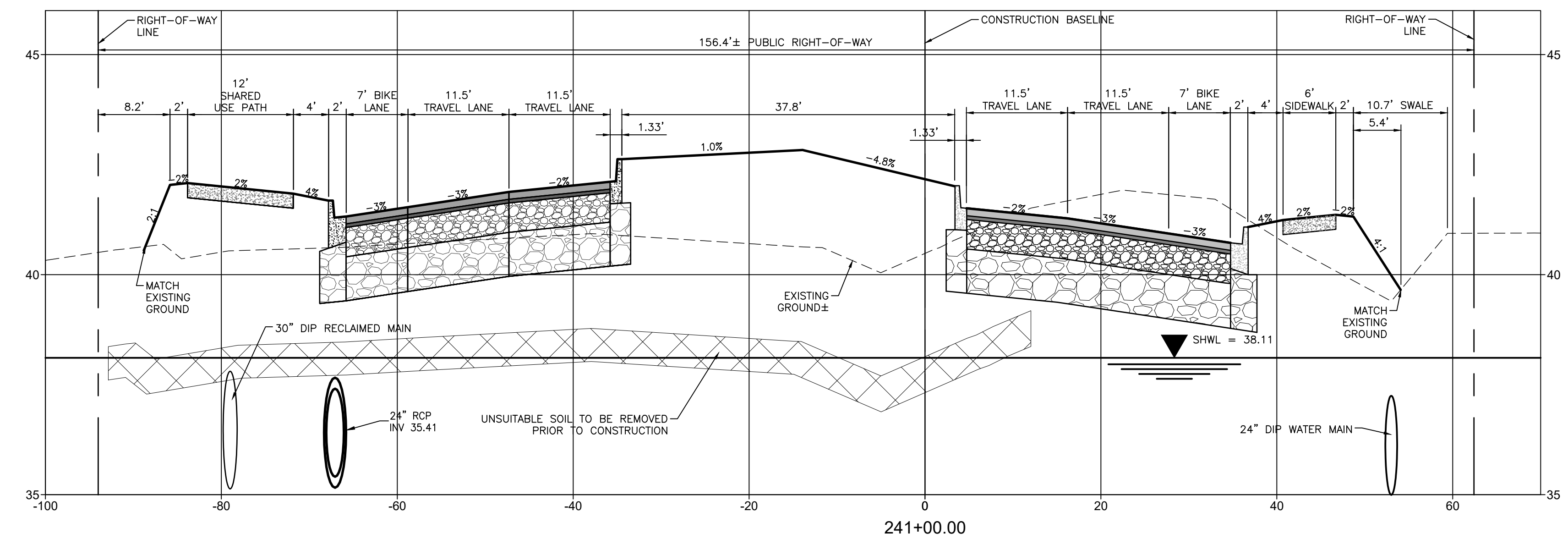
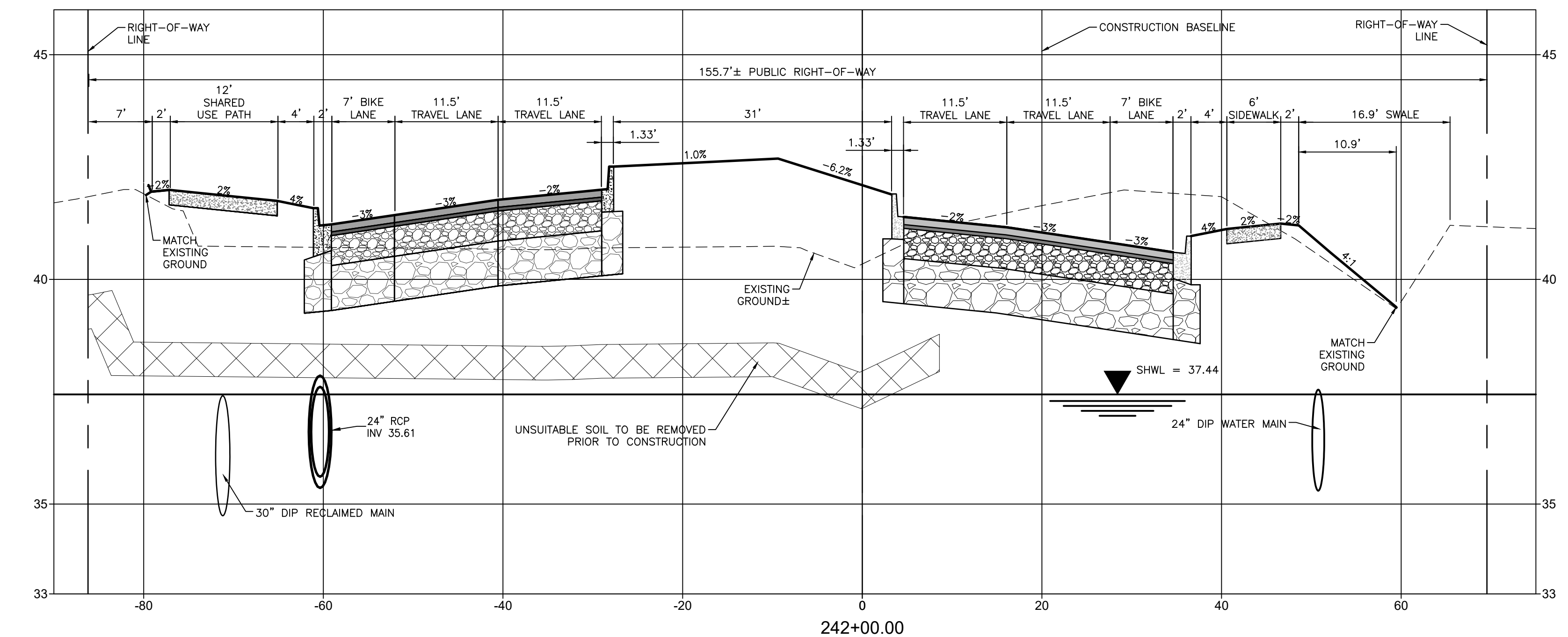
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

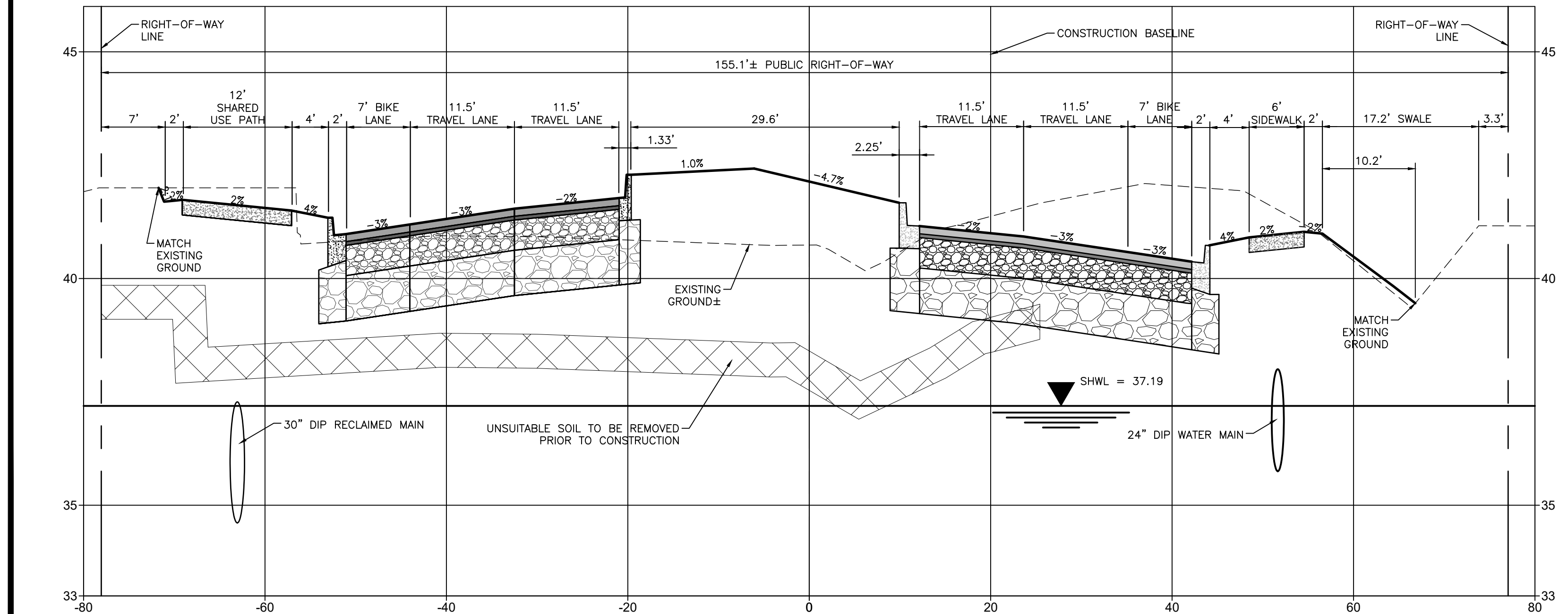
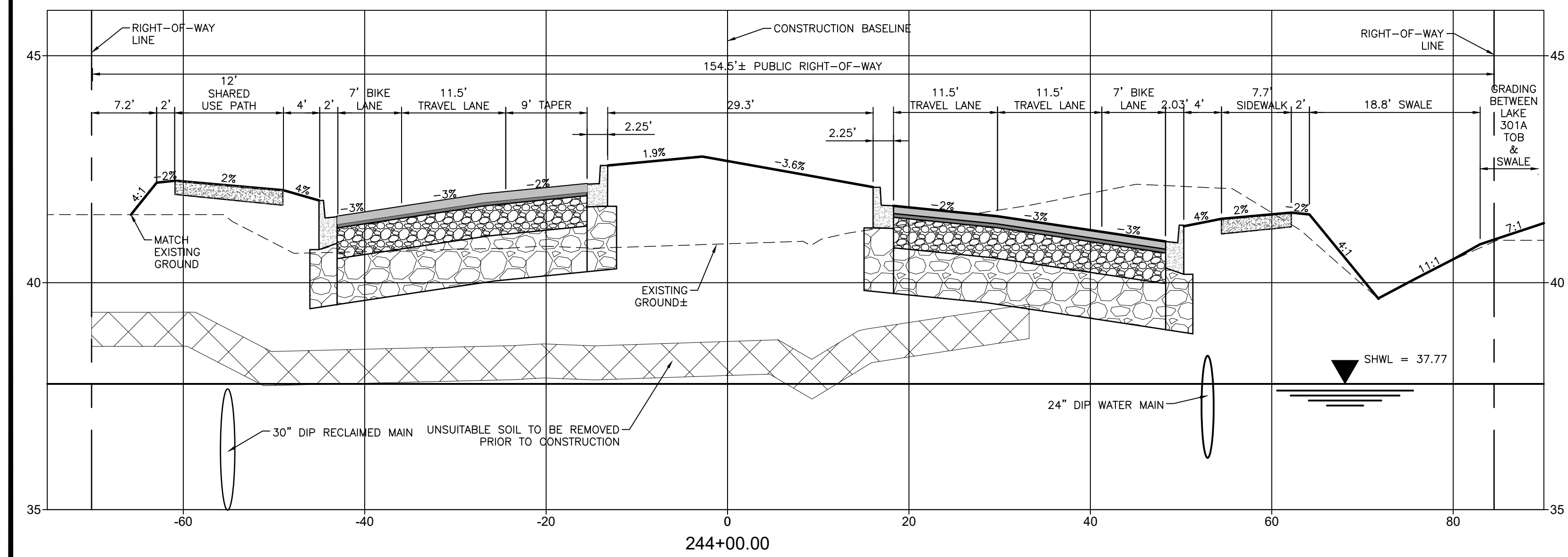
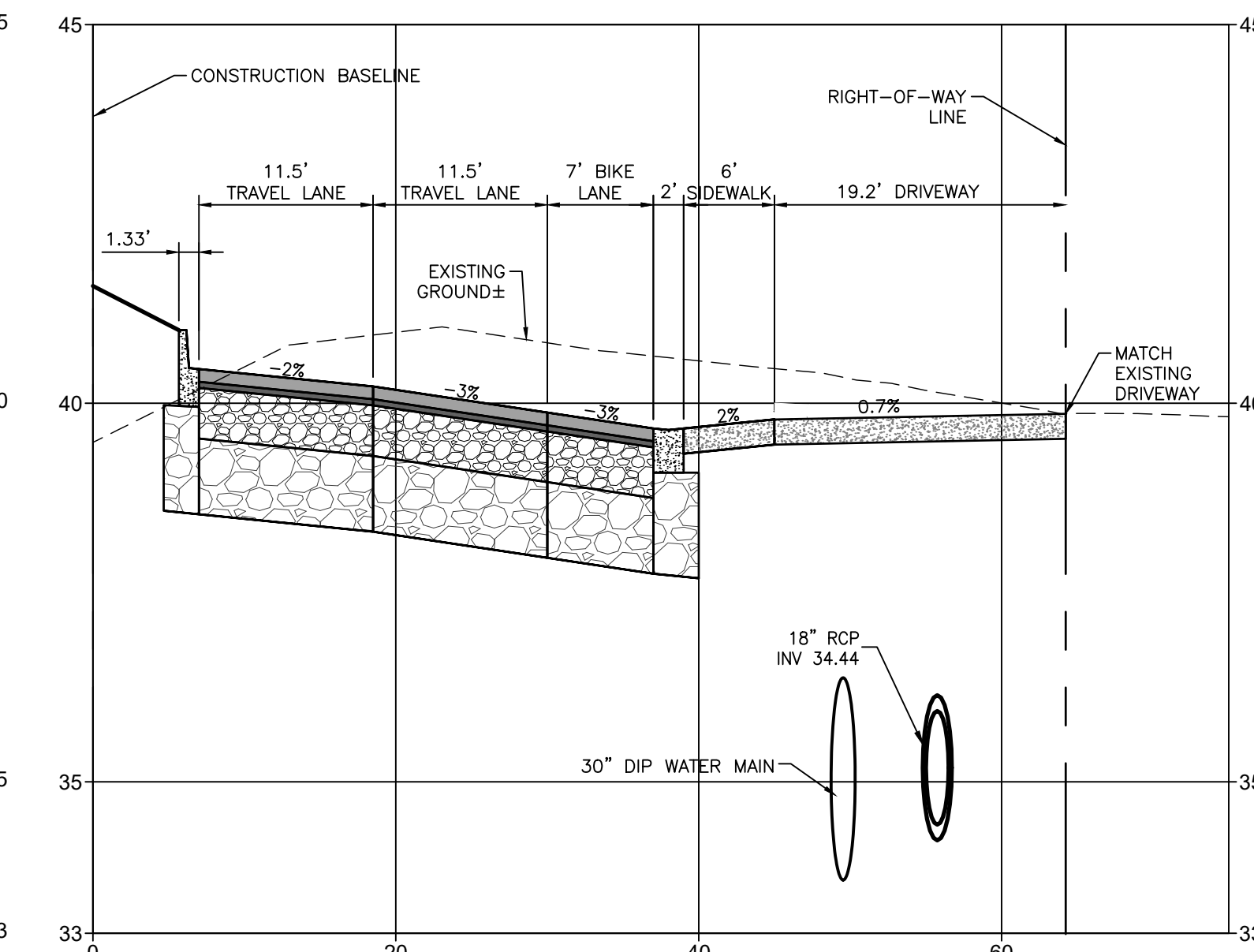
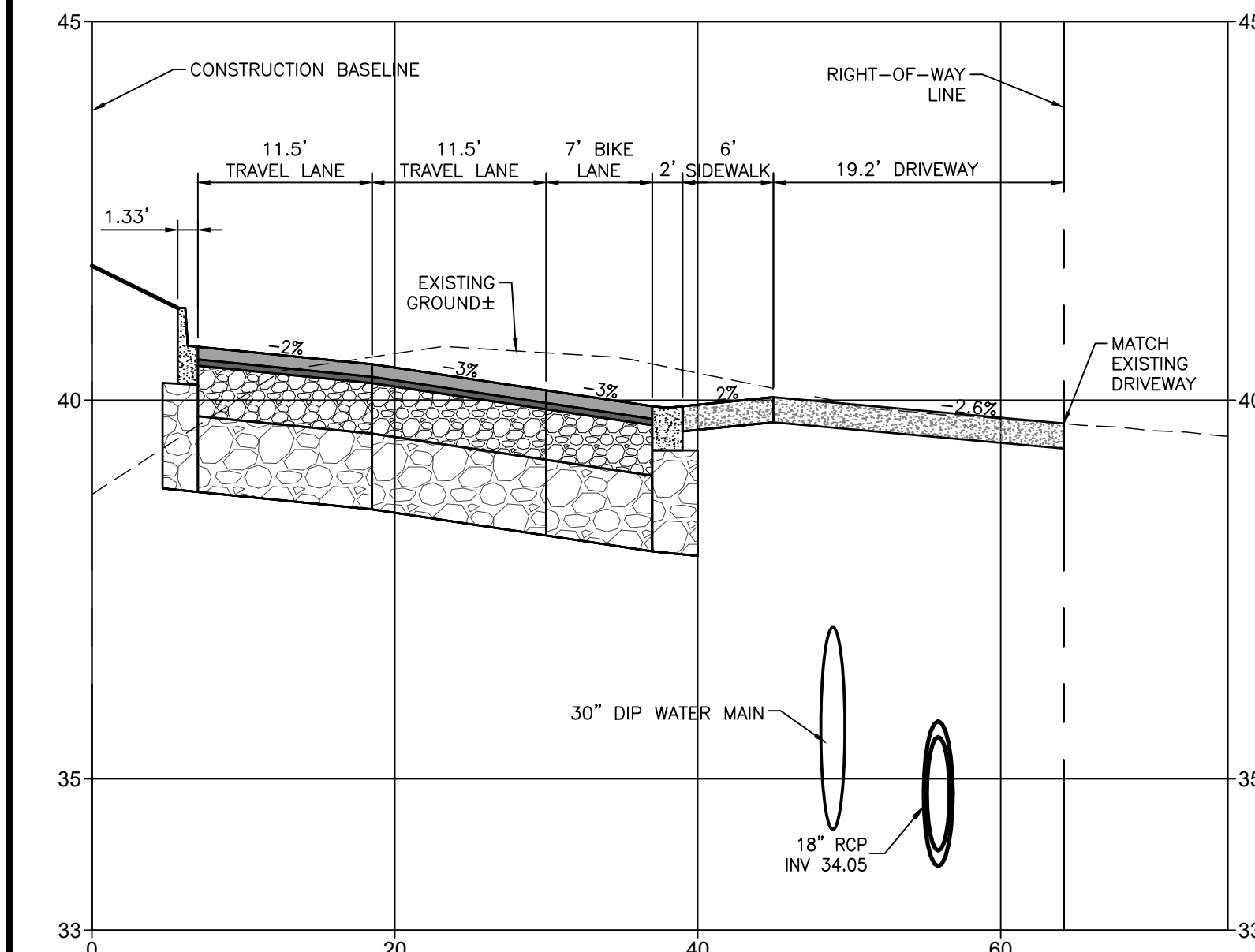
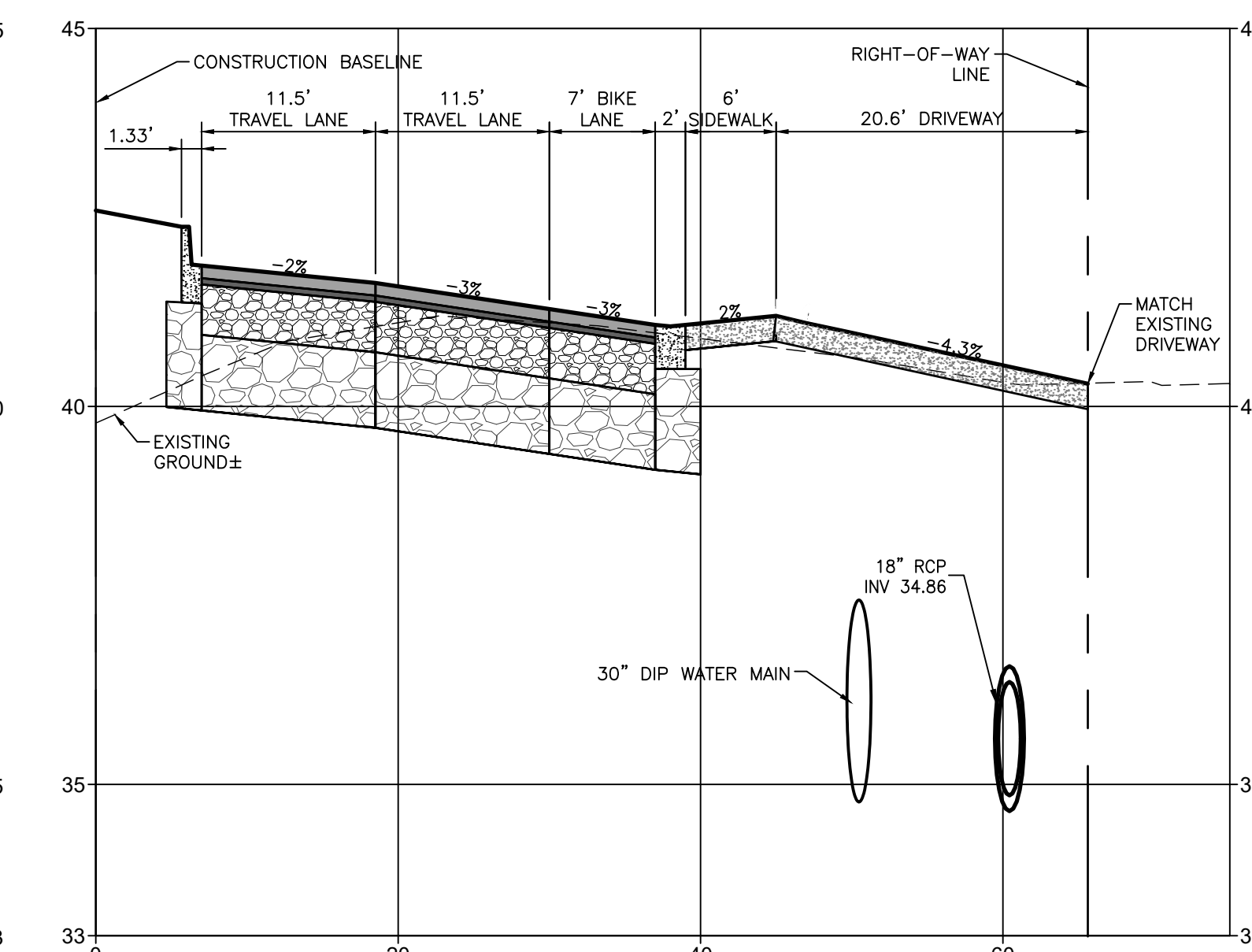
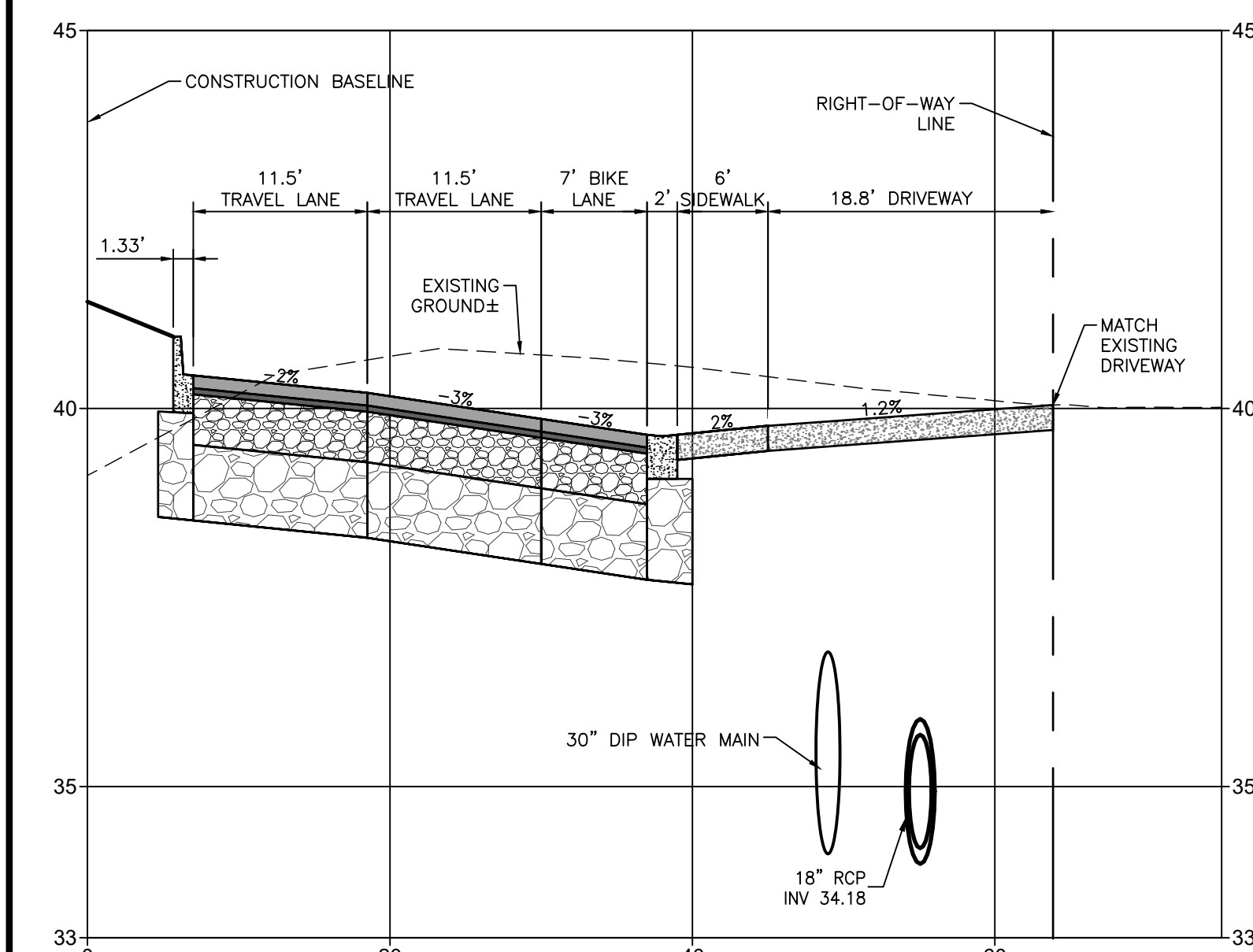
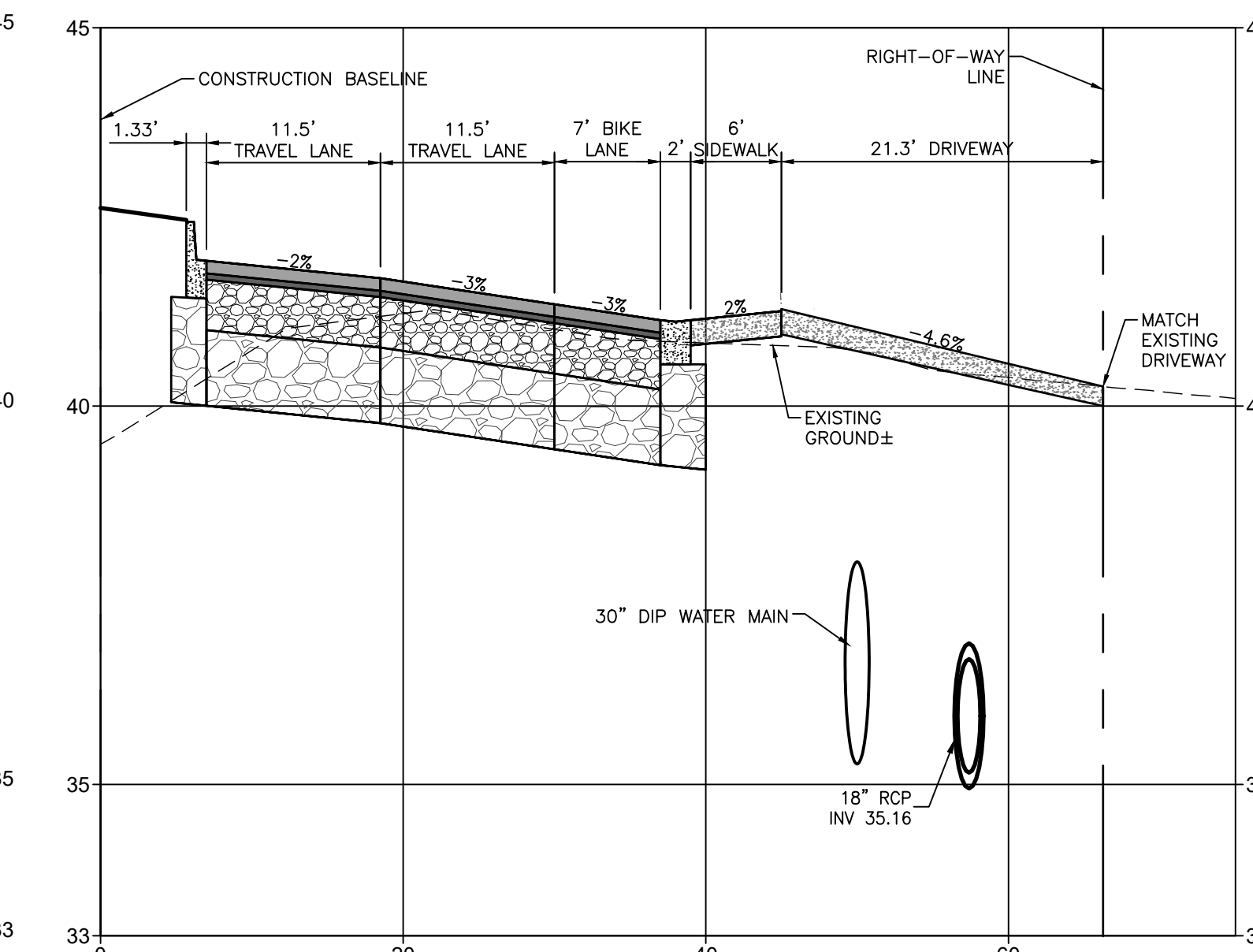
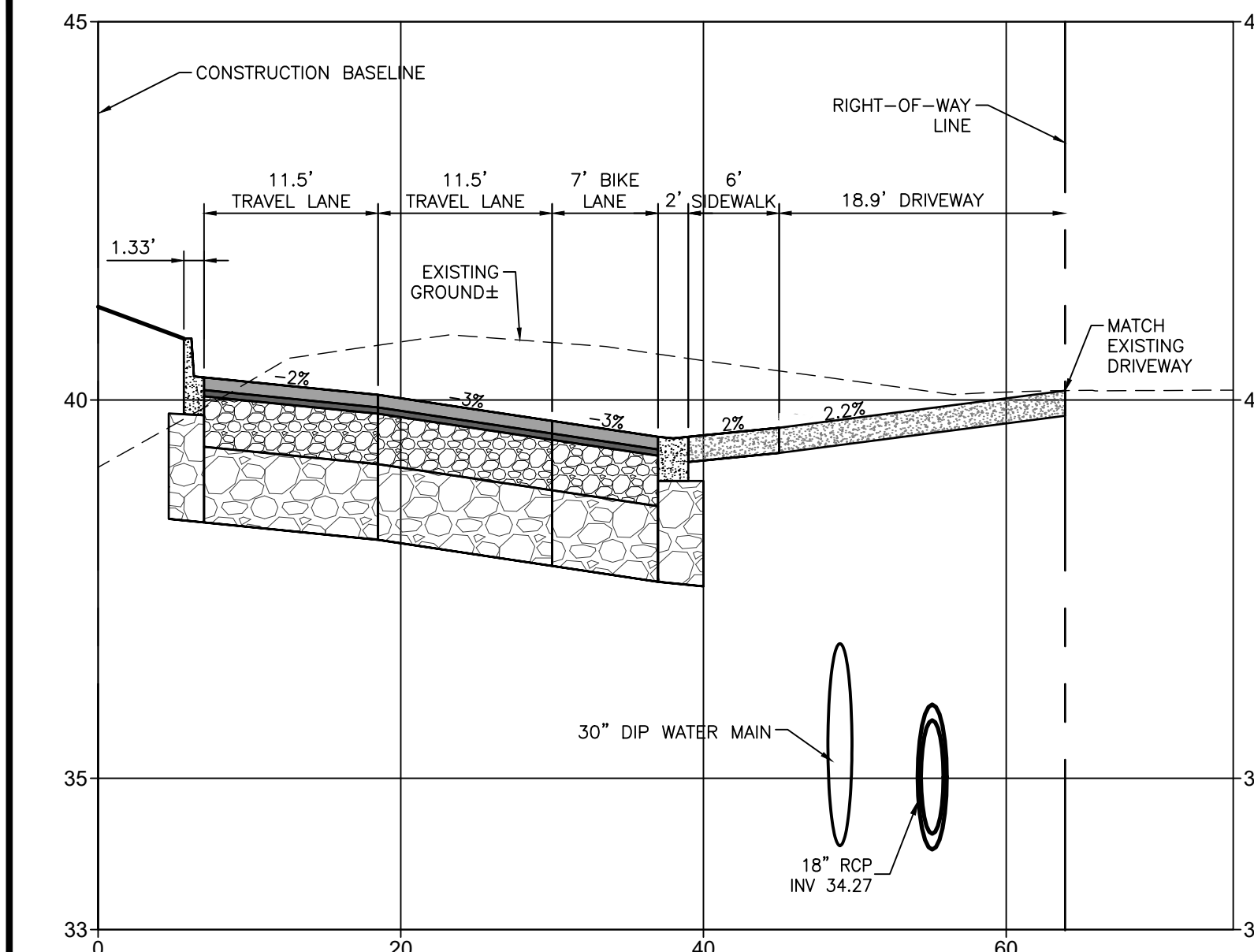
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 SHEET NO.: 19 OF 20
 CROSS REFERENCE FILE NO.: 335_19E

TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 66 OF 112



ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 10' VERTICAL SCALE: 1" = 5' 19 20 33S 19E	TITLE: CROSS SECTIONS	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-3025C SHEET NUMBER: 67 OF 112
D REVISED STA 240 - 242 4/15/22 MSC/98616	DATE DRAWN BY / EMP. NO. CHECKED BY / EMP. NO. WM APPROVED BY:	CROSS-REFERENCE FILE NO.: PROJECT NUMBER: 215615900						

DRIVEWAY CROSS SECTIONS



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REV STA 243 & 244	4/15/22	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		

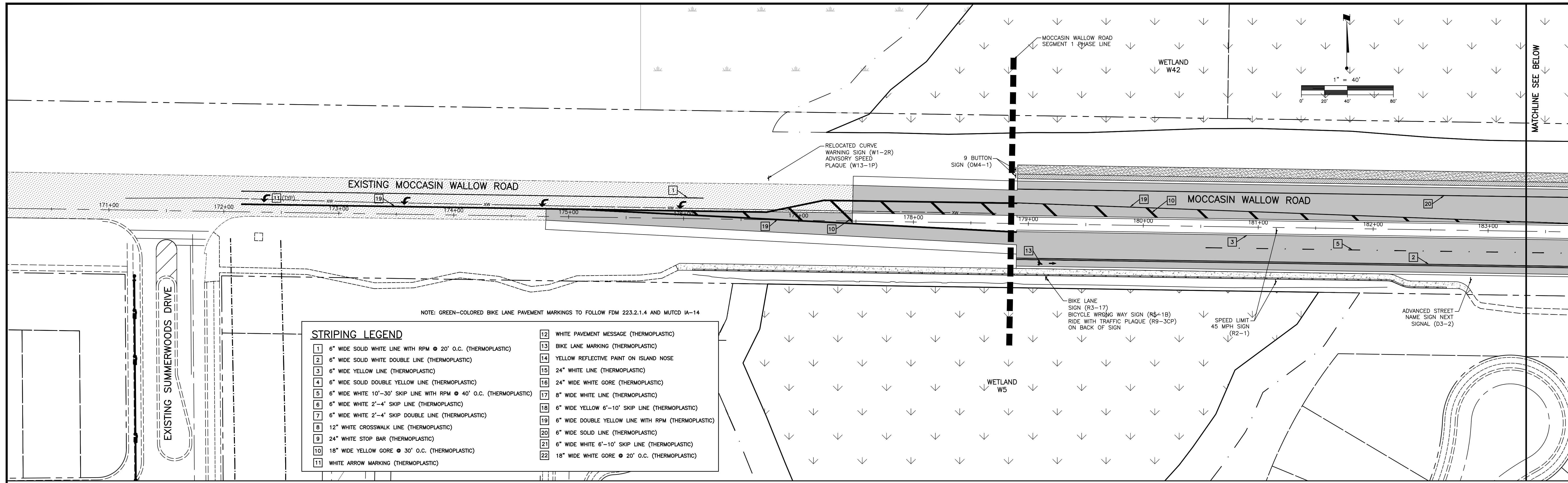
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

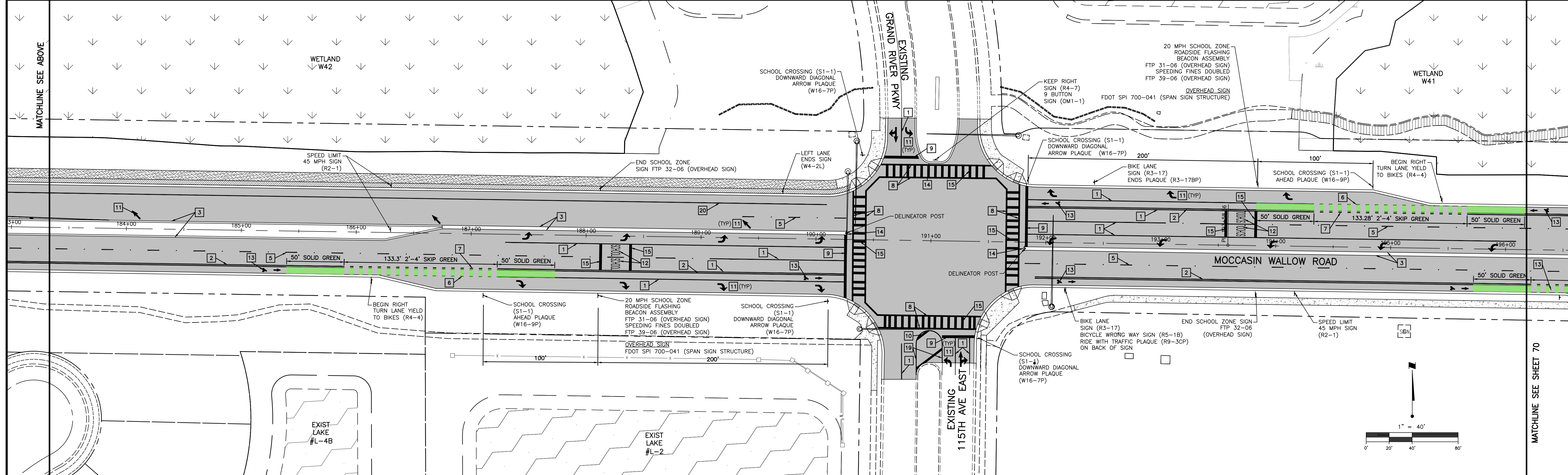
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TITLE: CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 68 OF 112

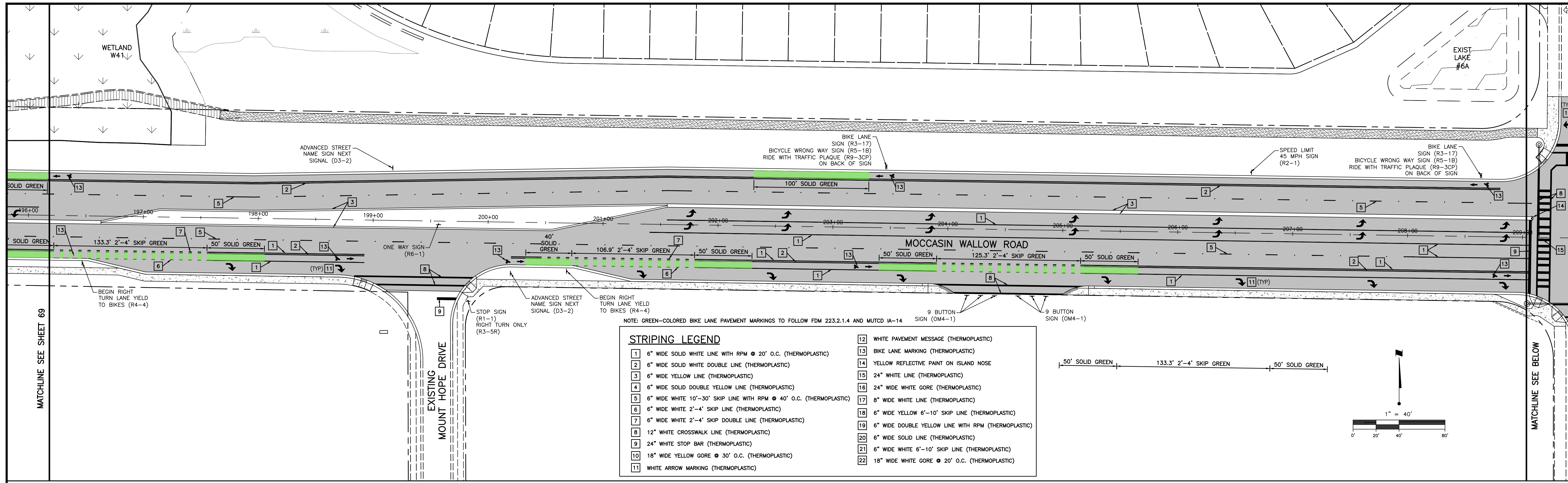


STRIPING LEGEND

1	6" WIDE SOLID WHITE LINE WITH RPM @ 20' O.C. (THERMOPLASTIC)	12	WHITE PAVEMENT MESSAGE (THERMOPLASTIC)
2	6" WIDE SOLID WHITE DOUBLE LINE (THERMOPLASTIC)	13	BIKE LANE MARKING (THERMOPLASTIC)
3	6" WIDE YELLOW LINE (THERMOPLASTIC)	14	YELLOW REFLECTIVE PAINT ON ISLAND NOSE
4	6" WIDE SOLID DOUBLE YELLOW LINE (THERMOPLASTIC)	15	24" WHITE LINE (THERMOPLASTIC)
5	6" WIDE WHITE 10'-30' SKIP LINE WITH RPM @ 40' O.C. (THERMOPLASTIC)	16	24" WIDE WHITE GORE (THERMOPLASTIC)
6	6" WIDE WHITE 2'-4' SKIP LINE (THERMOPLASTIC)	17	6" WIDE WHITE LINE (THERMOPLASTIC)
7	6" WIDE WHITE 2'-4' SKIP DOUBLE LINE (THERMOPLASTIC)	18	6" WIDE YELLOW 6'-10' SKIP LINE (THERMOPLASTIC)
8	12" WHITE CROSSWALK LINE (THERMOPLASTIC)	19	6" WIDE DOUBLE YELLOW LINE WITH RPM (THERMOPLASTIC)
9	24" WHITE STOP BAR (THERMOPLASTIC)	20	6" WIDE SOLID LINE (THERMOPLASTIC)
10	18" WIDE YELLOW GORE @ 30' O.C. (THERMOPLASTIC)	21	6" WIDE WHITE 6'-10' SKIP LINE (THERMOPLASTIC)
11	WHITE ARROW MARKING (THERMOPLASTIC)	22	18" WIDE WHITE GORE @ 20' O.C. (THERMOPLASTIC)

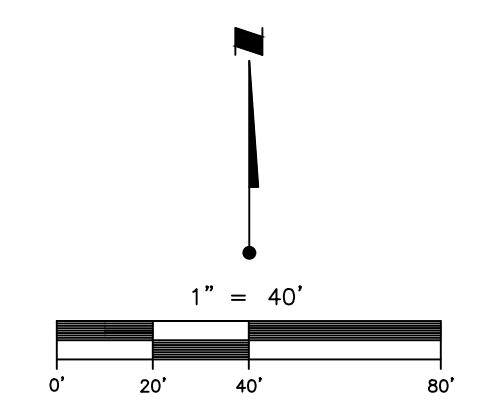
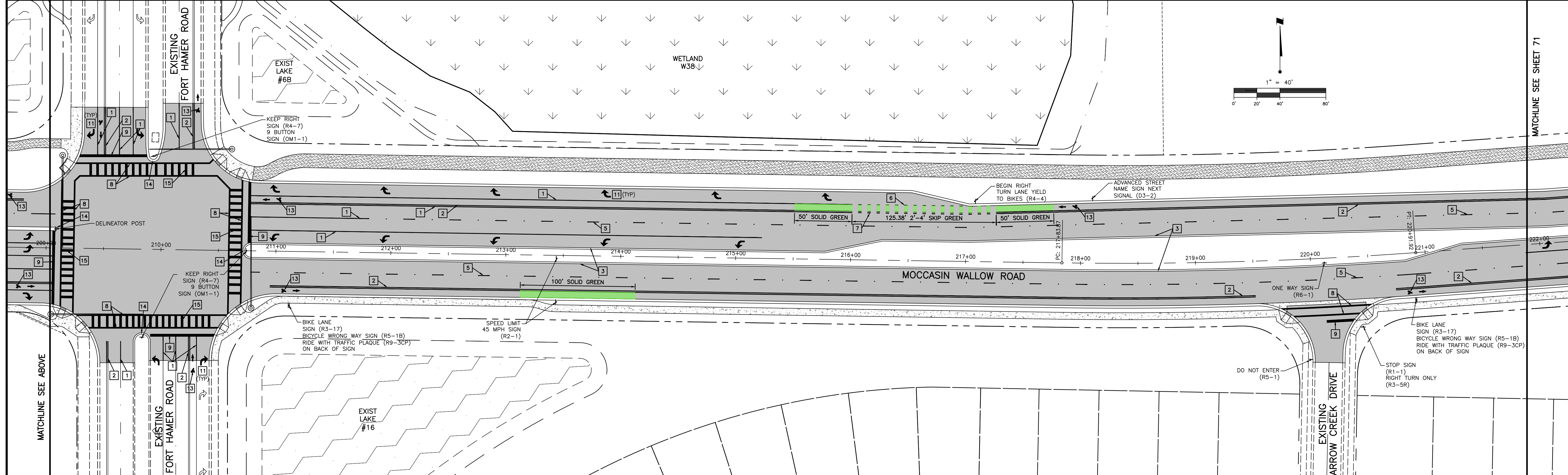
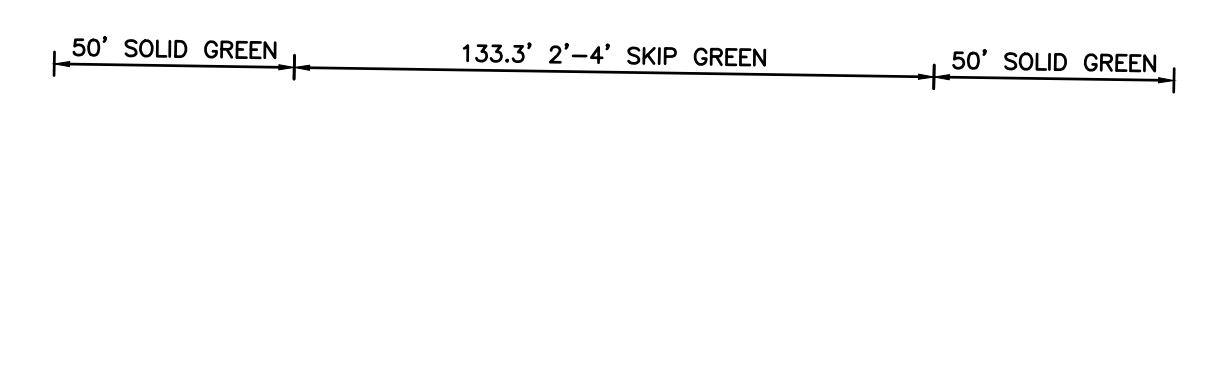


Stantec 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com		CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: SFC: 19 20 335 19E CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900 SHEET NUMBER: 69 OF 112	TITLE: SIGNAGE AND STRIPING PLAN ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-305SIGN SHEET NUMBER: 69 OF 112
E REVISED BIKE MARKINGS DATE: 6/1/22 DRAWN BY / EMP. NO.: MSC/98616 CHECKED BY: / CONTRACT ADMIN. BY: / WM APPROVED BY: /	ACTIVITY: / DESIGNED BY: / DRAWN BY: / CHECKED BY: / CONTRACT ADMIN. BY: / WM APPROVED BY: /	INITIALS/EMP. NO.: / DATE: 10/2020		



NOTE: GREEN-COLORED BIKE LANE PAVEMENT MARKINGS TO FOLLOW FDM 223.2.1.4 AND MUTCD 1A-14

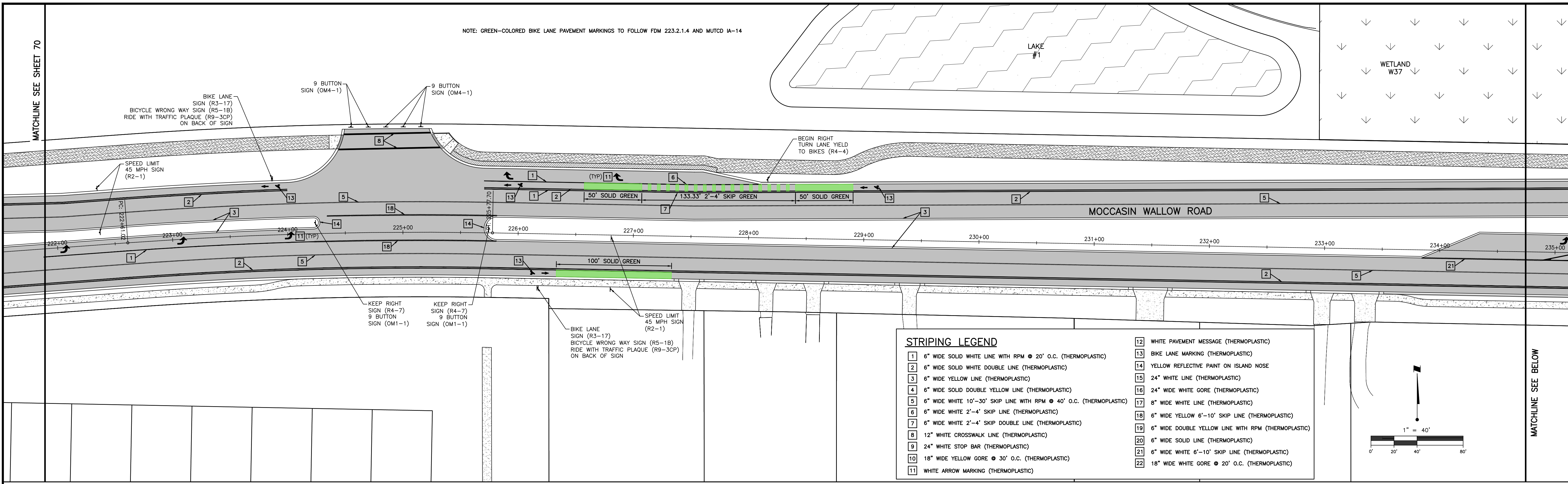
STRIPING LEGEND	
1	6" WIDE SOLID WHITE LINE WITH RPM @ 20' O.C. (THERMOPLASTIC)
2	6" WIDE SOLID WHITE DOUBLE LINE (THERMOPLASTIC)
3	6" WIDE YELLOW LINE (THERMOPLASTIC)
4	6" WIDE SOLID DOUBLE YELLOW LINE (THERMOPLASTIC)
5	6" WIDE WHITE 10'-30' SKIP LINE WITH RPM @ 40' O.C. (THERMOPLASTIC)
6	6" WIDE WHITE 2'-4' SKIP LINE (THERMOPLASTIC)
7	6" WIDE WHITE 2'-4' SKIP DOUBLE LINE (THERMOPLASTIC)
8	12" WHITE CROSSWALK LINE (THERMOPLASTIC)
9	24" WHITE STOP BAR (THERMOPLASTIC)
10	18" WIDE YELLOW GORE @ 30' O.C. (THERMOPLASTIC)
11	WHITE ARROW MARKING (THERMOPLASTIC)
12	WHITE PAVEMENT MESSAGE (THERMOPLASTIC)
13	BIKE LANE MARKING (THERMOPLASTIC)
14	YELLOW REFLECTIVE PAINT ON ISLAND NOSE
15	24" WHITE LINE (THERMOPLASTIC)
16	24" WIDE WHITE GORE (THERMOPLASTIC)
17	8" WIDE WHITE LINE (THERMOPLASTIC)
18	6" WIDE YELLOW 6'-10' SKIP LINE (THERMOPLASTIC)
19	6" WIDE DOUBLE YELLOW LINE WITH RPM (THERMOPLASTIC)
20	6" WIDE SOLID LINE (THERMOPLASTIC)
21	6" WIDE WHITE 6'-10' SKIP LINE (THERMOPLASTIC)
22	18" WIDE WHITE GORE @ 20' O.C. (THERMOPLASTIC)



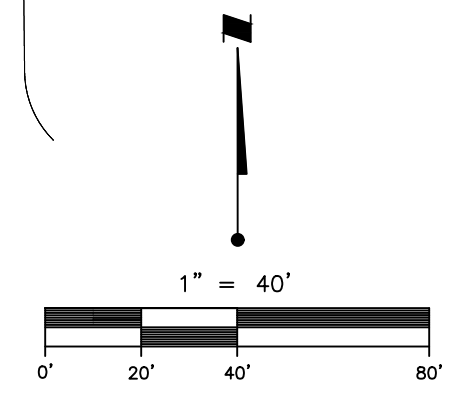
E REVISED BIKE MARKINGS DATE: 6/1/22 DRAWN BY: MSC/98616 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		ACTIVITY DESIGNED BY: DRAWN BY: CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com		CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: SHEET NUMBER: 70 OF 112		TITLE: SIGNAGE AND STRIPING PLAN PROJECT NUMBER: 215615900 SHEET NUMBER: 70 OF 112	
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NOTE: GREEN-COLORED BIKE LANE PAVEMENT MARKINGS TO FOLLOW FDM 223.2.1.4 AND MUTCD IA-14

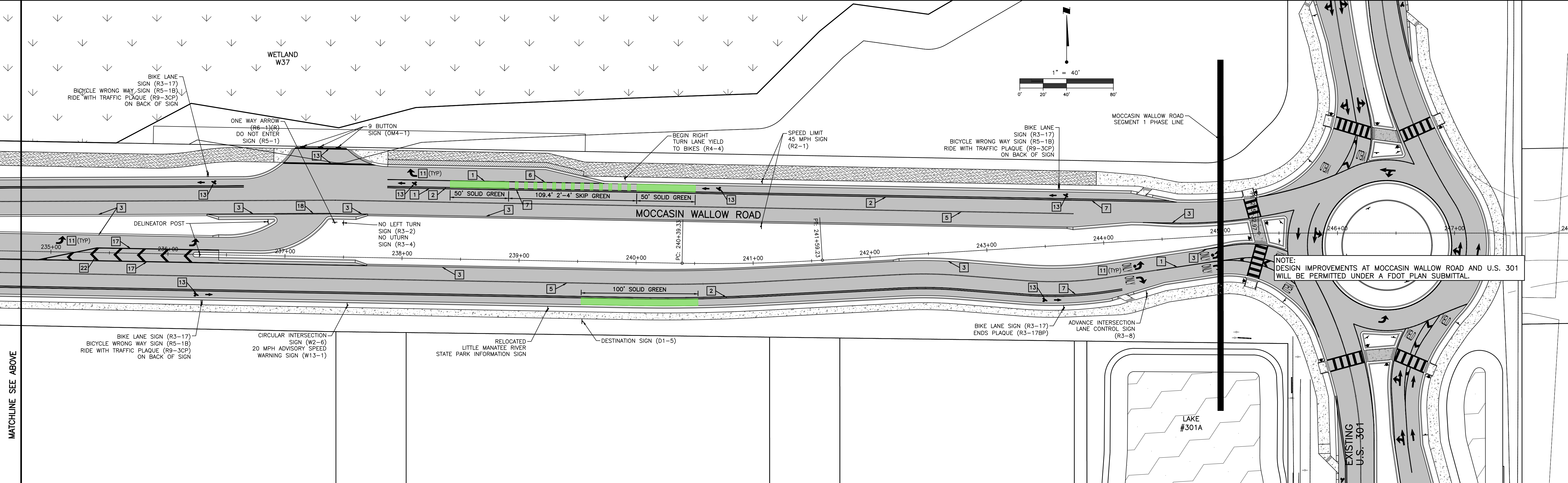
MATCHLINE SEE SHEET 70



STRIPING LEGEND	
1	6" WIDE SOLID WHITE LINE WITH RPM @ 20' O.C. (THERMOPLASTIC)
2	6" WIDE SOLID WHITE DOUBLE LINE (THERMOPLASTIC)
3	6" WIDE YELLOW LINE (THERMOPLASTIC)
4	6" WIDE SOLID DOUBLE YELLOW LINE (THERMOPLASTIC)
5	6" WIDE WHITE 10'-30' SKIP LINE WITH RPM @ 40' O.C. (THERMOPLASTIC)
6	6" WIDE WHITE 2'-4' SKIP LINE (THERMOPLASTIC)
7	6" WIDE WHITE 2'-4' SKIP DOUBLE LINE (THERMOPLASTIC)
8	12" WHITE CROSSWALK LINE (THERMOPLASTIC)
9	24" WHITE STOP BAR (THERMOPLASTIC)
10	18" WIDE YELLOW GORE @ 30' O.C. (THERMOPLASTIC)
11	WHITE ARROW MARKING (THERMOPLASTIC)
12	WHITE PAVEMENT MESSAGE (THERMOPLASTIC)
13	BIKE LANE MARKING (THERMOPLASTIC)
14	YELLOW REFLECTIVE PAINT ON ISLAND NOSE
15	24" WHITE LINE (THERMOPLASTIC)
16	24" WIDE WHITE GORE (THERMOPLASTIC)
17	8" WIDE WHITE LINE (THERMOPLASTIC)
18	6" WIDE YELLOW 6'-10' SKIP LINE (THERMOPLASTIC)
19	6" WIDE DOUBLE YELLOW LINE WITH RPM (THERMOPLASTIC)
20	6" WIDE SOLID LINE (THERMOPLASTIC)
21	6" WIDE WHITE 6'-10' SKIP LINE (THERMOPLASTIC)
22	18" WIDE WHITE GORE @ 20' O.C. (THERMOPLASTIC)

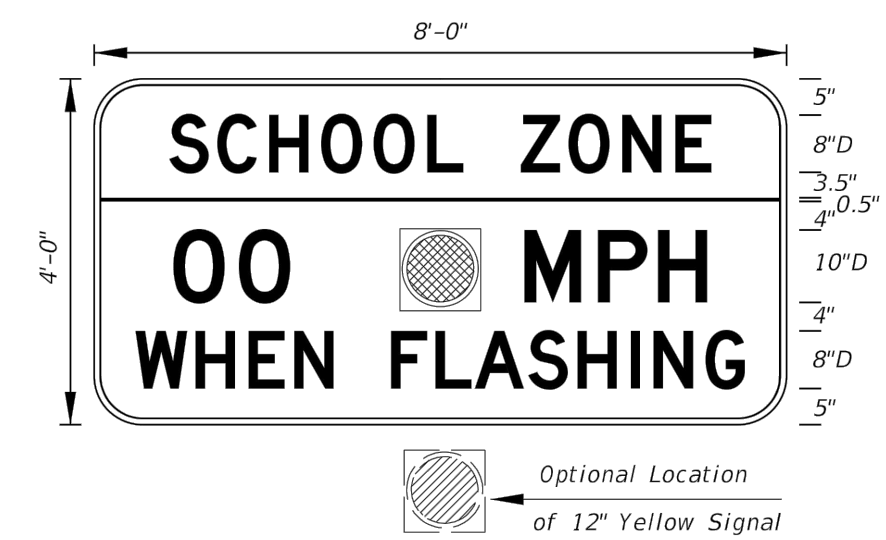


MATCHLINE SEE BELOW

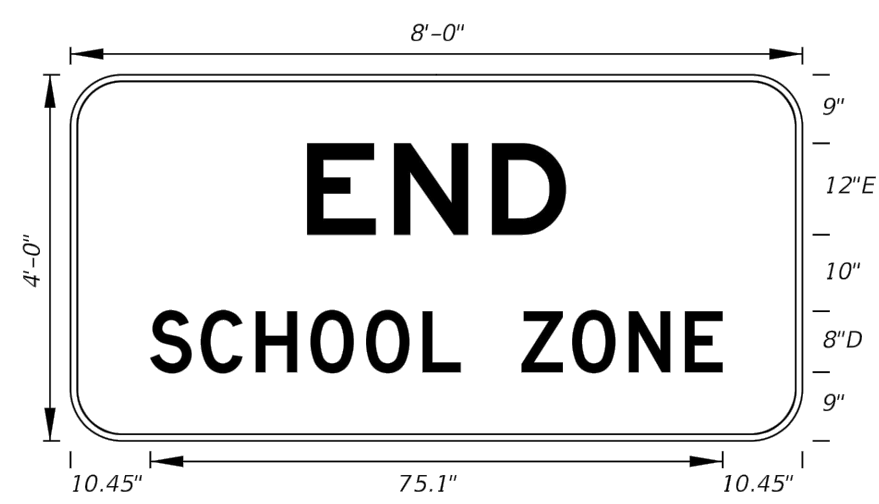


MATCHLINE SEE ABOVE

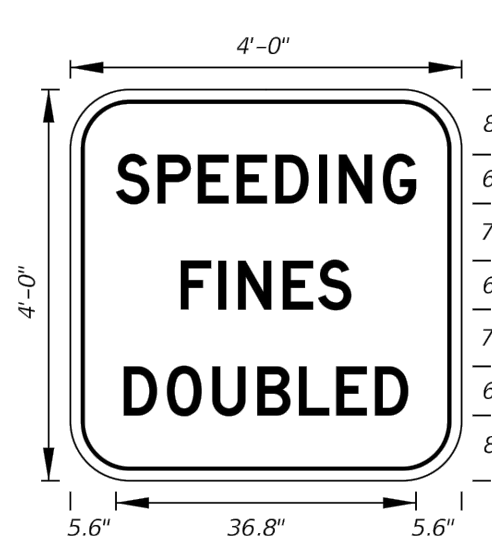
E REVISED BIKE MARKINGS DATE: 6/1/22 DRAWN BY / EMP. NO.: MSC/98616	ACTIVITY: 10/2020 DESIGNED BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:	6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 40' SHEET NUMBER: 71 OF 112	TITLE: SIGNAGE AND STRIPING PLAN PROJECT NUMBER: 215615900 SHEET NUMBER: 71 OF 112
			CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	PROJECT NUMBER: 215615900	



FTP-31-06
8' X 4'
6" Radii 3/4" Border
Series D Legend
Fluorescent Yellow-Green Background Top
White Background Bottom
Black Legend and Border

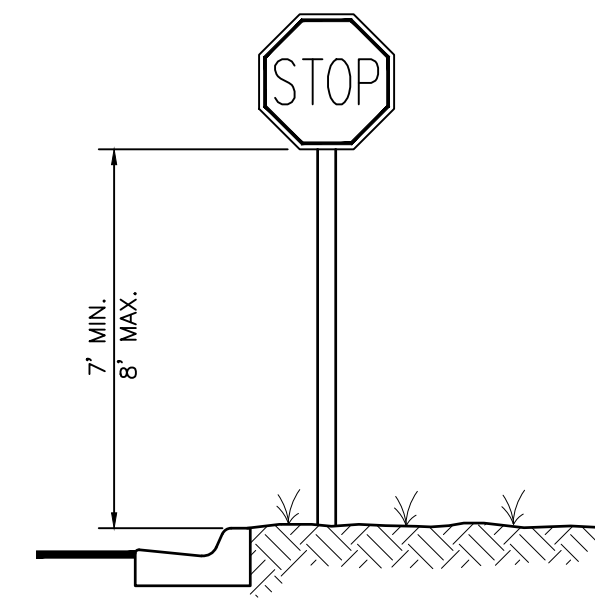


FTP-32-06
8' X 4'
6" Radii 3/4" Border
12" Series E and 8" Series D Legend
White Background
Black Legend and Border

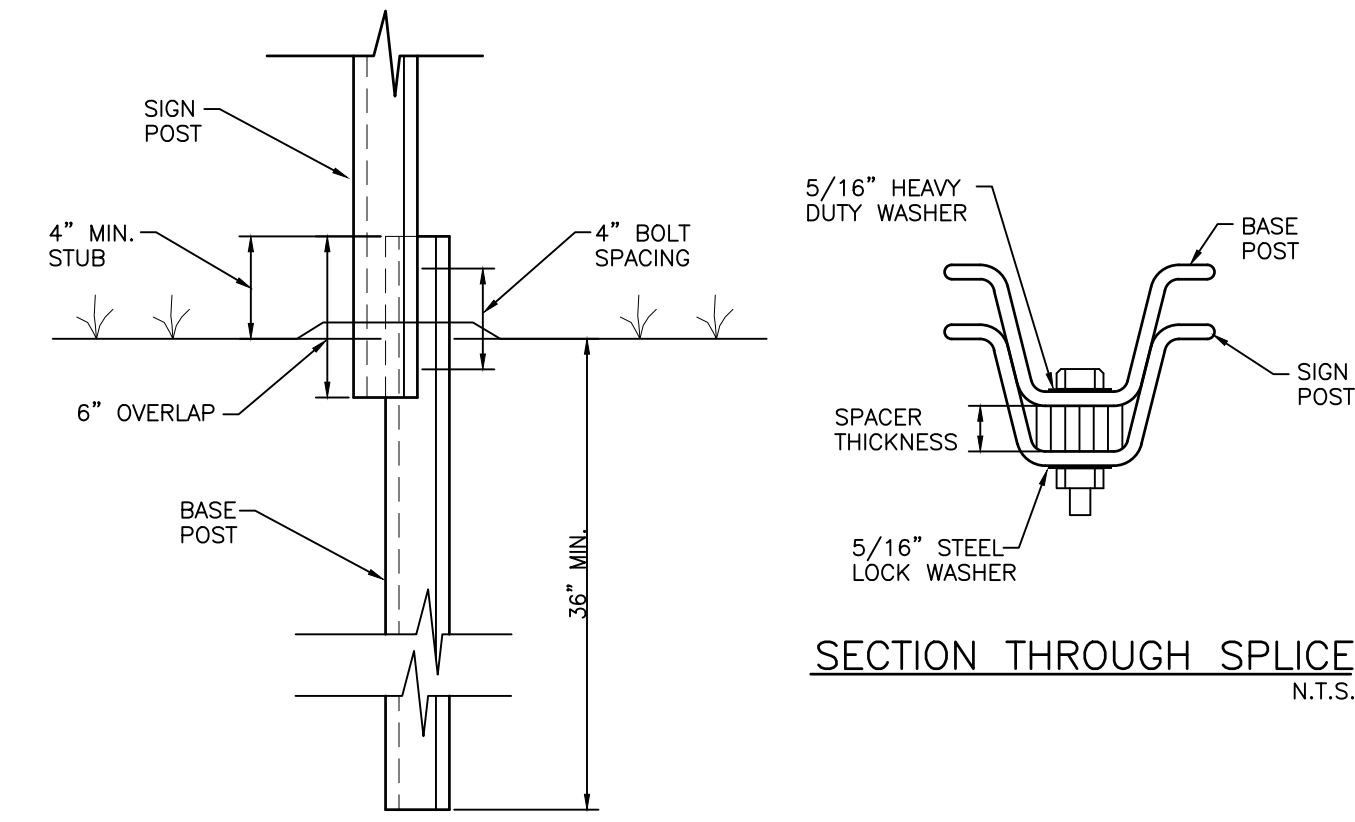


FTP-39-06
4' X 4'
6" Radii 3/4" Border
6" Series D Legend
White Background
Black Legend and Border
Freeway Sign

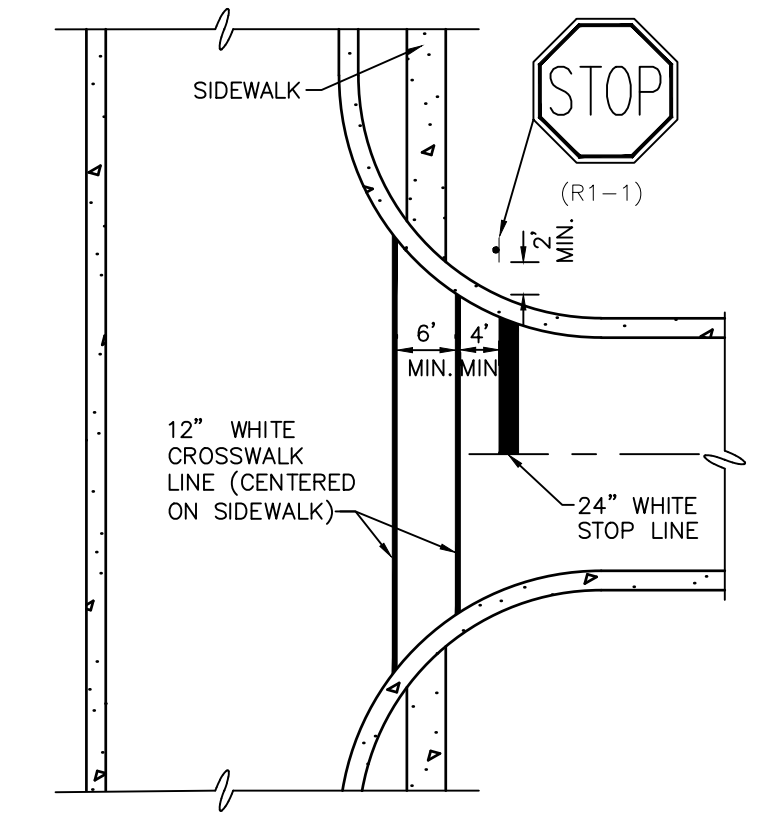
OVERHEAD SIGN DETAILS
N.T.S.



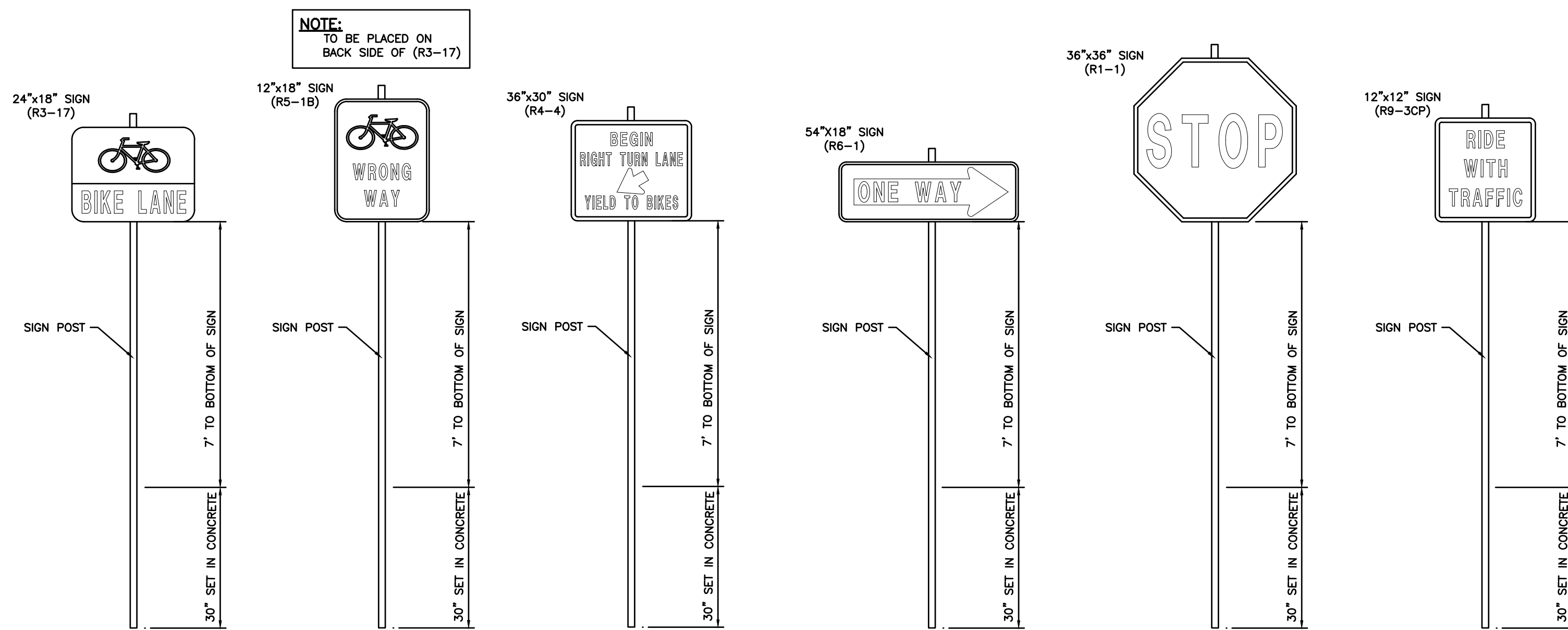
TYPICAL STOP SIGN DETAIL
N.T.S.



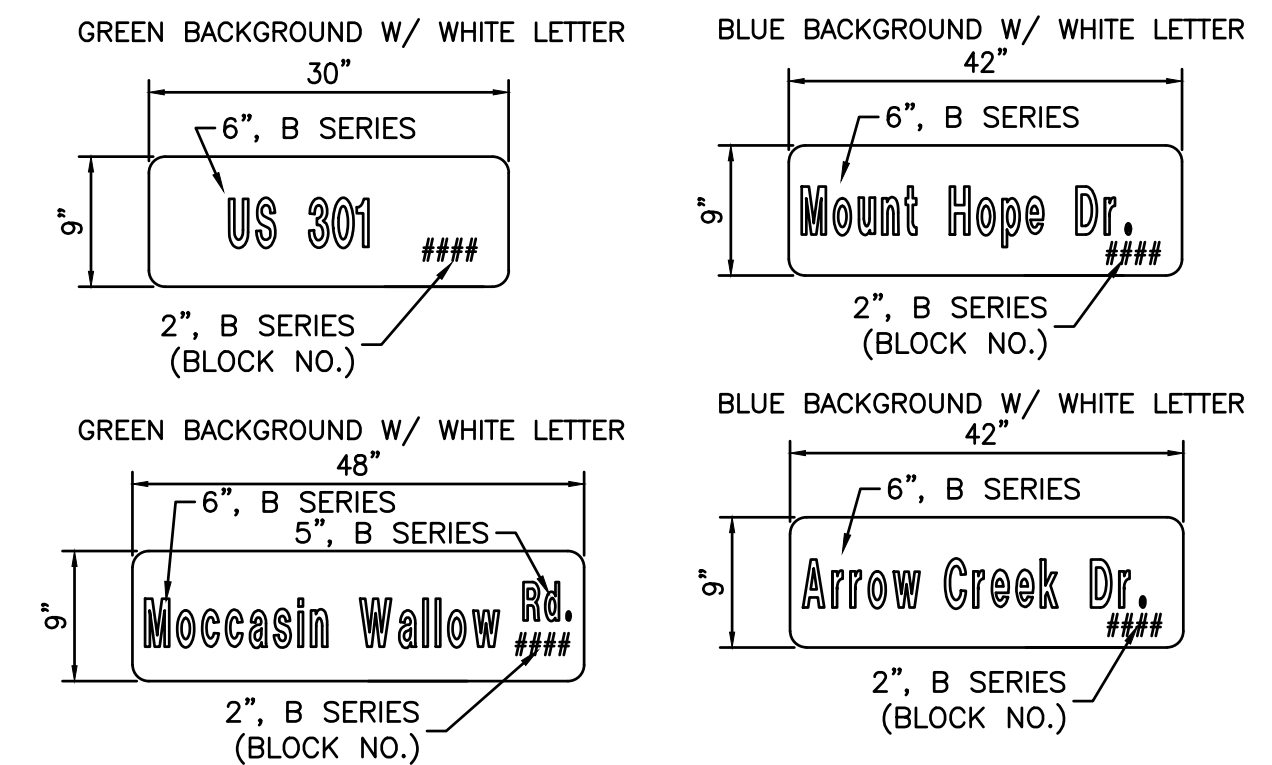
SIGN POST BREAKAWAY DETAIL
S-P027
NOTE: ALL MATERIALS AS PER F.D.O.T. SPECIFICATIONS, INDEX NO. 11865, AND ALL APPLICABLE COUNTY REQUIREMENTS.
N.T.S.



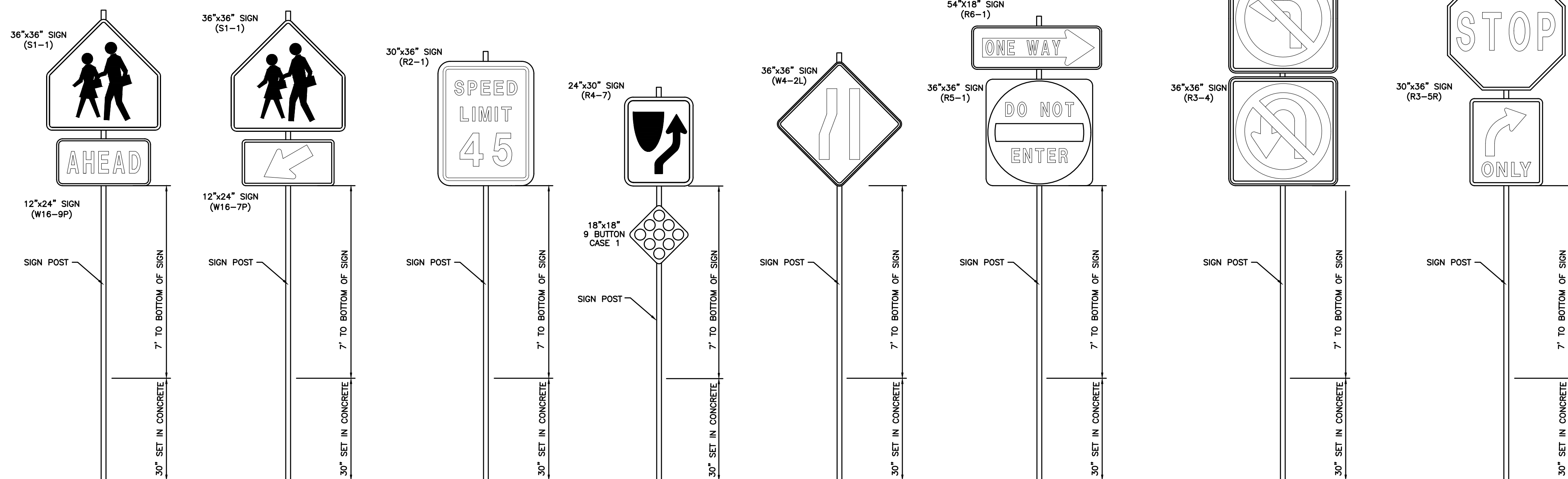
STOP SIGN, STOP LINE AND CROSSWALK LOCATION DETAIL
S-P037 (09/07/04)
N.T.S.



TYPICAL SIGN DETAILS
N.T.S.



SIGN BLANK DETAILS
N.T.S.



NOTE:
ALL STREET NAME SIGN SHOP DRAWINGS ARE TO BE REVIEWED BY MANATEE COUNTY PRIOR TO INSTALLATION AND THE SIGNS SHALL BE DESIGNED WITH BLOCK NAMES, NUMBERS AND COLORS AS FOLLOWS:
-PRIVATE STREETS INTERSECTING WITH PUBLIC ROADS: THE STREET NAME SIGNS SHALL BE 6" B SERIES UPPER/LOWER CASE WHITE TEXT ON BLUE BACKGROUND.
-PUBLIC STREETS: THE STREET NAME SIGNS SHALL BE 6" B SERIES UPPER/LOWER WHITE TEXT ON GREEN BACKGROUND.
-EMERGENCY ACCESS MAINTENANCE STREETS: THE STREET NAME SIGNS SHALL BE 6" B SERIES UPPER/LOWER CASE WHITE TEXT ON BROWN BACKGROUND

- NOTES**
- THE COLOR AND LOCATION OF THE REFLECTIVE PAVEMENT MARKERS (R.P.M.'S) SHALL BE IN CONFORMANCE WITH FDOT STANDARD INDEX NO. 706-001. ALL R.P.M.'S SHALL BE INSTALLED WITH BITUMINOUS ADHESIVE AND SHALL NOT BE INSTALLED ON THERMOPLASTIC PAVEMENT MARKINGS.
 - STRIPING AND SIGNAGE SHALL CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FDOT STANDARD INDEX DRAWINGS FOR SUCH.
 - ALL SIGNAGE WILL BE INSTALLED BY CONTRACTOR.
 - ALL STRIPING FOR THE INTERSECTIONS SHALL CONFORM WITH THE FDOT STANDARD INDEX NO. 711-001.
 - ALL BIKE LANE MARKINGS SHALL CONFORM WITH THE FDOT STANDARD INDEX NO. 711-002.
 - ALL STRIPING SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. THERMOPLASTIC MARKINGS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 711.
 - STRIPING NOTED AS "PAINT" SHALL BE IN ACCORDANCE WITH FDOT SECTION 706-001.
 - ALL SIGN RETROREFLECTIVITY MUST MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE LATEST EDITION OF THE MUTCD.
 - ALL PAVEMENT MARKING SHALL MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE LATEST EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. SUBMIT REQUIRED RETROREFLECTIVITY CERTIFICATION WHEN APPLICABLE.
 - ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE LATEST EDITION OF THE MUTCD, FDOT DESIGN STANDARDS AND THE MANATEE COUNTY TRANSPORTATION DEPT - HIGHWAY, TRAFFIC & STORMWATER STANDARDS.
 - THE CONTRACTOR SHALL PROVIDE ALL SIGNING AND PAVEMENT MARKING, TRAFFIC SIGNAL AND LIGHTING MATERIAL SUBMITTALS TO MANATEE COUNTY TRAFFIC OPERATIONS FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT.

ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #2013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE:	TITLE: SIGNAGE AND STRIPING PLAN	PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	SHEET NUMBER: 21565900-01C-305SIGN 72 OF 112
D Δ REV. NO.	ADDED OVERHEAD SIGNS REVISION	DATE 4/15/22	DRAWN BY / EMP. NO. MSC/98616		CHECKED BY / EMP. NO.	PROJECT NUMBER: 215615900	CROSS REFERENCE FILE NO.: 39 335 19E	PROJECT NUMBER: 215615900	SHEET NUMBER: 72 OF 112

SIGN NUMBER GS-1

PANEL WIDTH = 9,000 FT.
 PANEL DEPTH = 3,500 FT.
 GROUND SLOPE = FLAT
 CLEAR HEIGHT = 7,000 FT.

U-CHANNEL POSTS

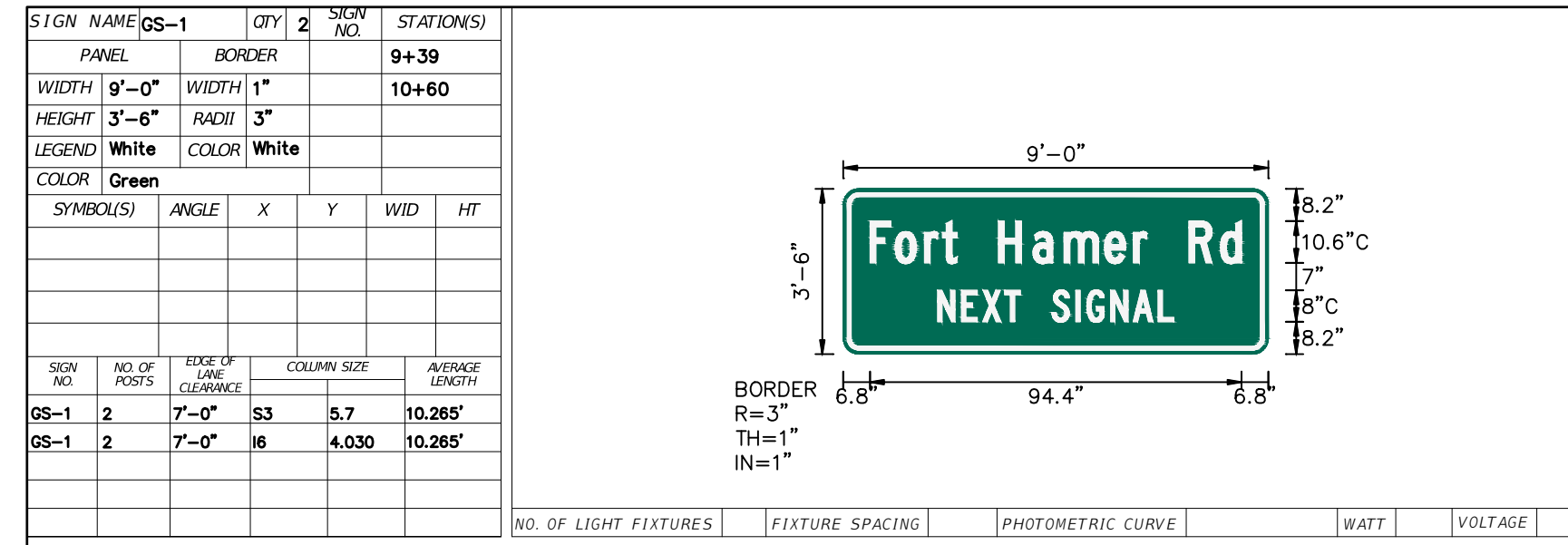
SIGN PANEL LOADING EXCEEDS CAPACITY OF TWO 4 POUND PER FOOT U-CHANNELS

STEEL POSTS

TWO S3 X 5.7
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,265 FT.
 UNBRACED LENGTH = 7,735 FT.
 MAX. MOMENT = 45,983 IN-KIPS
 ACTUAL STRESS = 27,371 KSI
 ALLOWABLE STRESS = 28,728 KSI

ALUMINUM BEAMS

TWO I 6 X 4.030
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,265 FT.
 UNBRACED LENGTH = 7,735 FT.
 MAX. MOMENT = 45,983 IN-KIPS
 ACTUAL STRESS = 6,273 KSI
 ALLOWABLE STRESS = 11,970 KSI



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
6.8	13.2	20.6	25.2	28.8

COPY	F	O	R	T	H	A	M	E	R	R	D	L
SPACE	6.8	13.2	20.6	25.2	28.8	39.4	48.2	56.1	66.4	73.7	77.2	87.8

COPY	N	E	X	T	S	I	G	N	A	L	L
SPACE	24	30	35.4	41	45	53	59.1	61.9	67.9	73.7	80

SIGN NUMBER GS-2

PANEL WIDTH = 10,000 FT.
 PANEL DEPTH = 4,000 FT.
 GROUND SLOPE = FLAT
 CLEAR HEIGHT = 7,000 FT.

U-CHANNEL POSTS

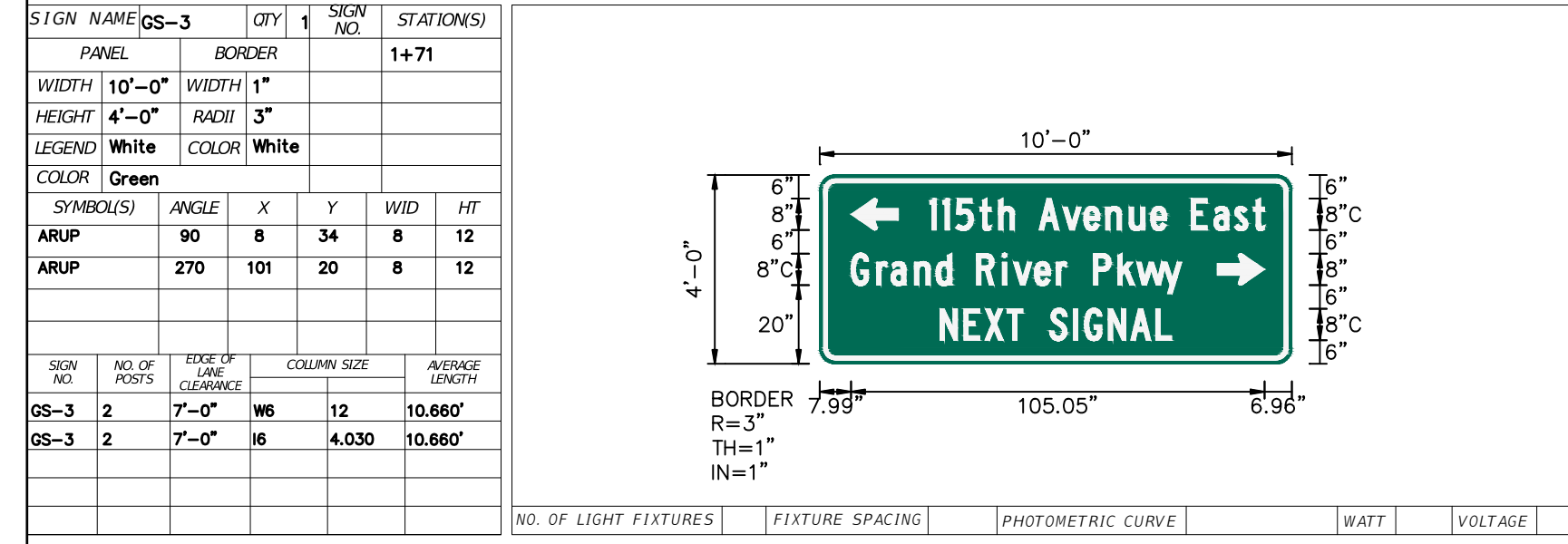
SIGN PANEL LOADING EXCEEDS CAPACITY OF TWO 4 POUND PER FOOT U-CHANNELS

STEEL POSTS

TWO W6 X 12
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,216 KSI
 ALLOWABLE STRESS = 28,728 KSI

ALUMINUM BEAMS

TWO I 6 X 4.030
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,194 KSI
 ALLOWABLE STRESS = 10,640 KSI



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
90	8	34	8	12

COPY	1	1	5	t	h	A	v	e	n	e	L
SPACE	28	31.3	34.6	40.7	45.5	49	55.8	61.8	67.1	72.7	78.7

COPY	G	r	a	n	d	R	i	v	e	r	P	k	w	y	L
SPACE	8	14.5	18.1	24.1	29.6	33.1	39.9	46.4	49.3	54.6	60.1	62.8	69.6	75.8	

SIGN NUMBER GS-3

PANEL WIDTH = 10,000 FT.
 PANEL DEPTH = 4,000 FT.
 GROUND SLOPE = FLAT
 CLEAR HEIGHT = 7,000 FT.

U-CHANNEL POSTS

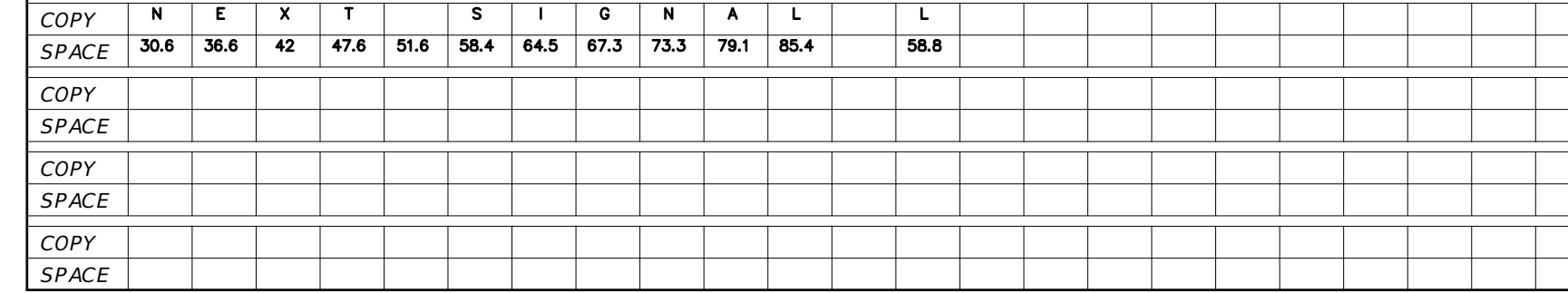
SIGN PANEL LOADING EXCEEDS CAPACITY OF TWO 4 POUND PER FOOT U-CHANNELS

STEEL POSTS

TWO W6 X 12
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,216 KSI
 ALLOWABLE STRESS = 28,728 KSI

ALUMINUM BEAMS

TWO I 6 X 4.030
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,194 KSI
 ALLOWABLE STRESS = 10,640 KSI



SIGN NUMBER GS-4

PANEL WIDTH = 10,000 FT.
 PANEL DEPTH = 4,000 FT.
 GROUND SLOPE = FLAT
 CLEAR HEIGHT = 7,000 FT.

U-CHANNEL POSTS

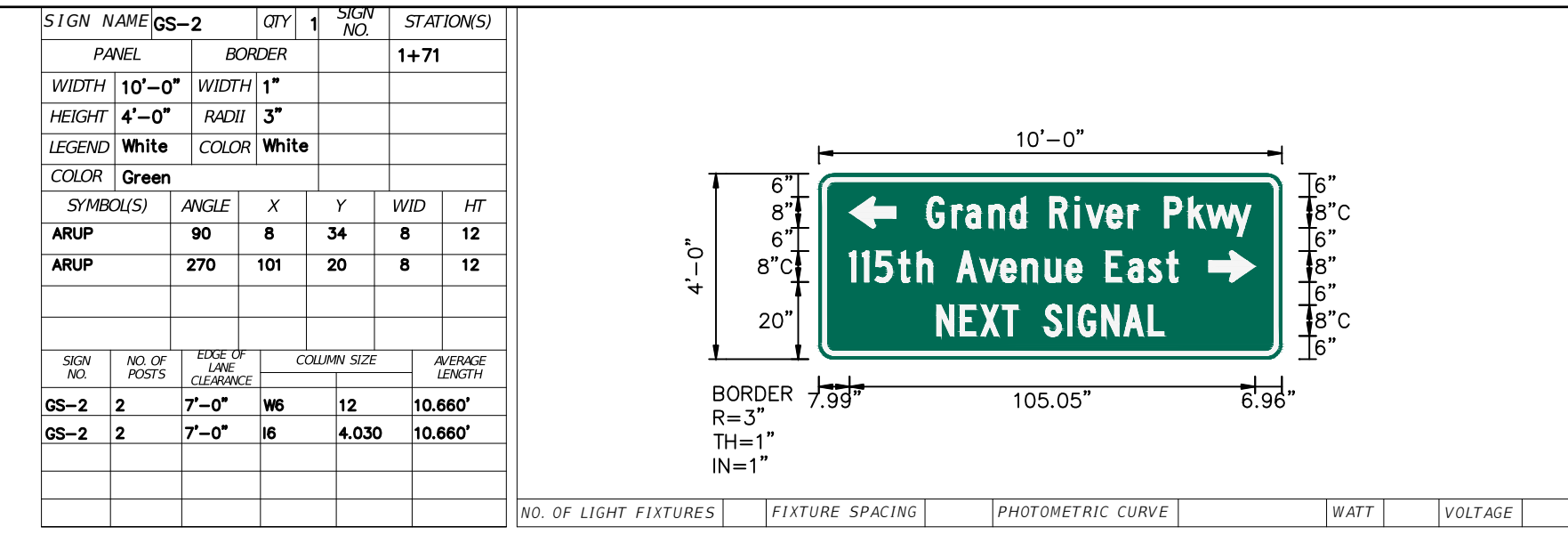
SIGN PANEL LOADING EXCEEDS CAPACITY OF TWO 4 POUND PER FOOT U-CHANNELS

STEEL POSTS

TWO W6 X 12
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,216 KSI
 ALLOWABLE STRESS = 28,728 KSI

ALUMINUM BEAMS

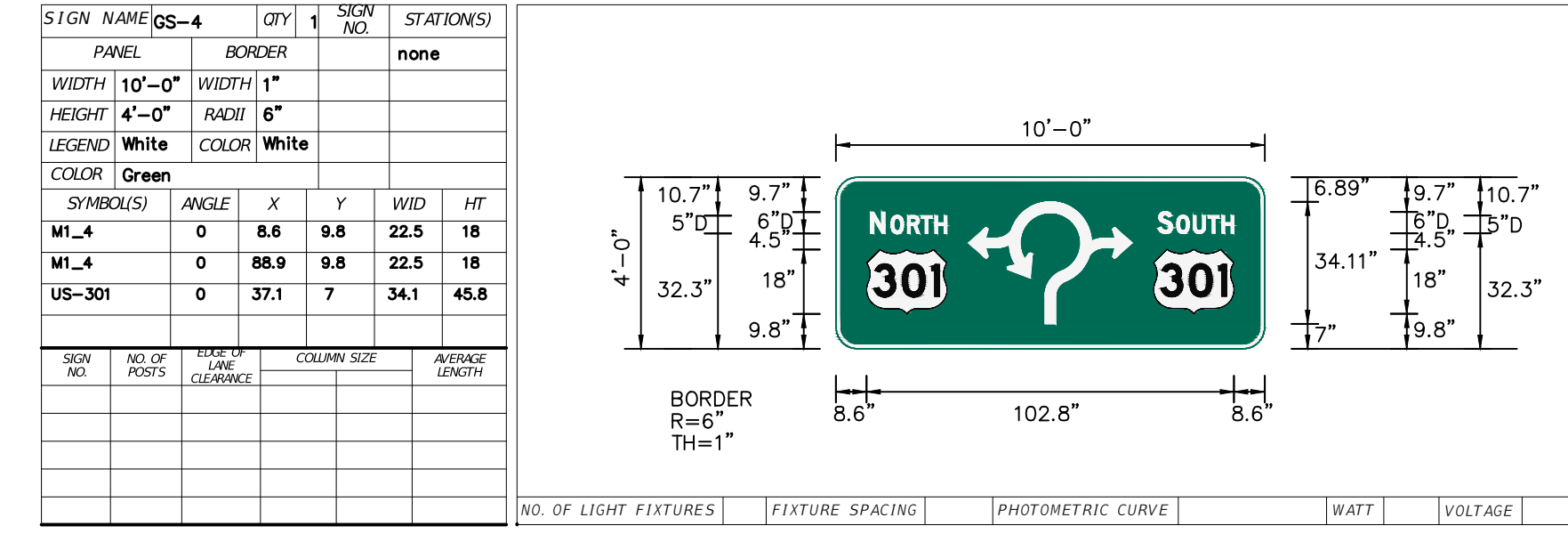
TWO I 6 X 4.030
 THE CRITICAL POST IS NO. 1
 AVG. POST LENGTH = 10,660 FT.
 UNBRACED LENGTH = 7,840 FT.
 MAX. MOMENT = 60,059 IN-KIPS
 ACTUAL STRESS = 8,194 KSI
 ALLOWABLE STRESS = 10,640 KSI



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
270	101	20	8	12

COPY	G	r	a	n	d	R	i	v	e	r	P	k	w	y	L
SPACE	28	34.5	38.1	44.1	49.6	53.1	59.9	66.4	69.3	74.6	80.1	82.8	89.6	95.8	

COPY	1	1	5	t	h	A	v	e	n	e	L
SPACE	8	11.3	14.6	20.7	25.5	29	35.8	41.8	47.1	52.7	58.7

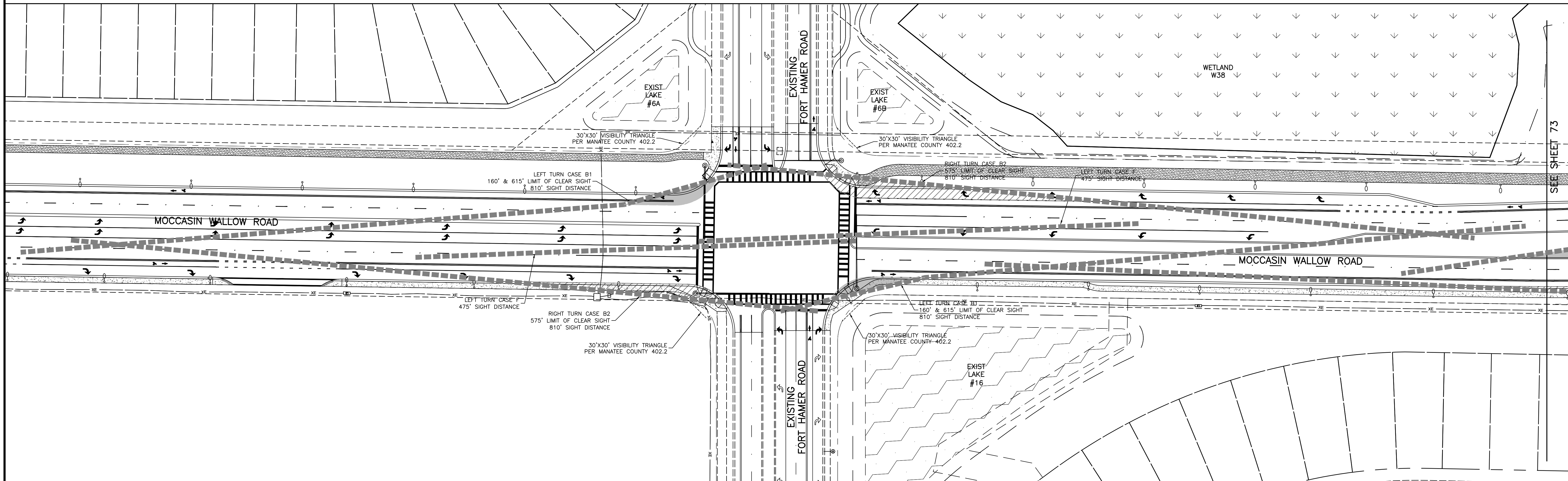
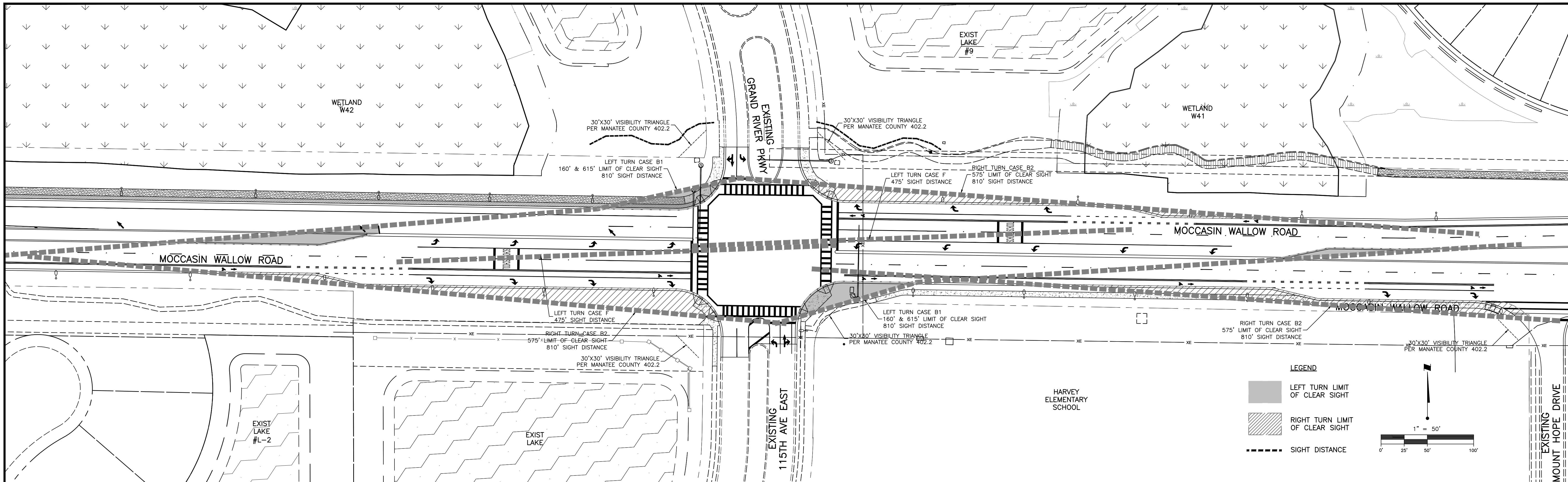


NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
0	88.9	9.8	22.5	18

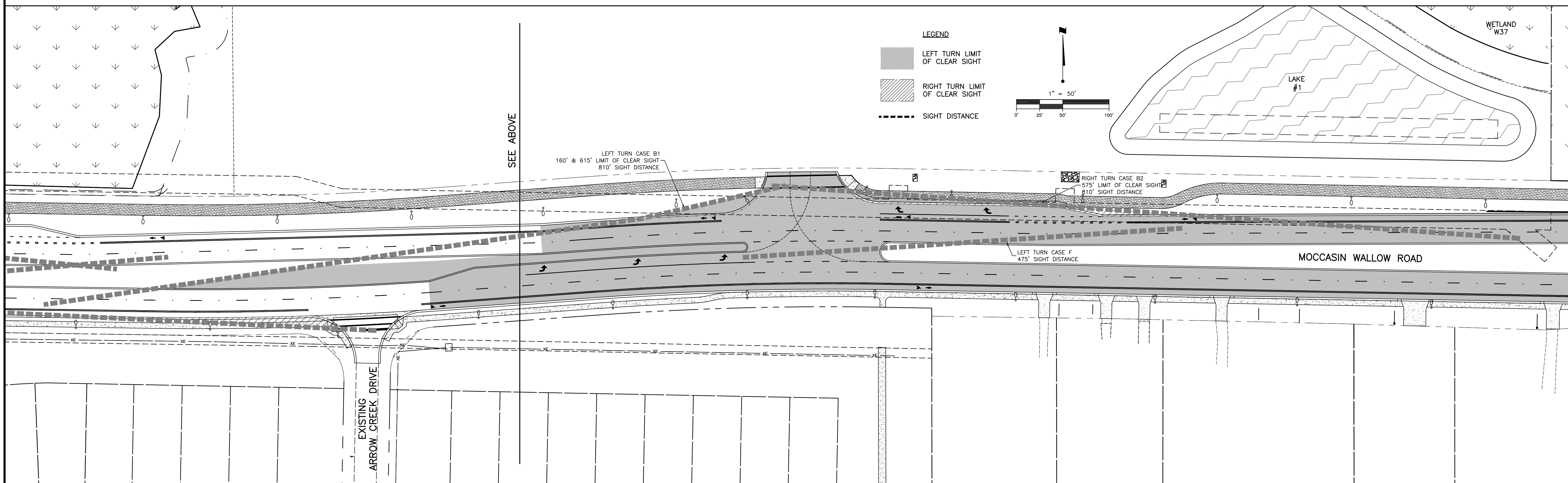
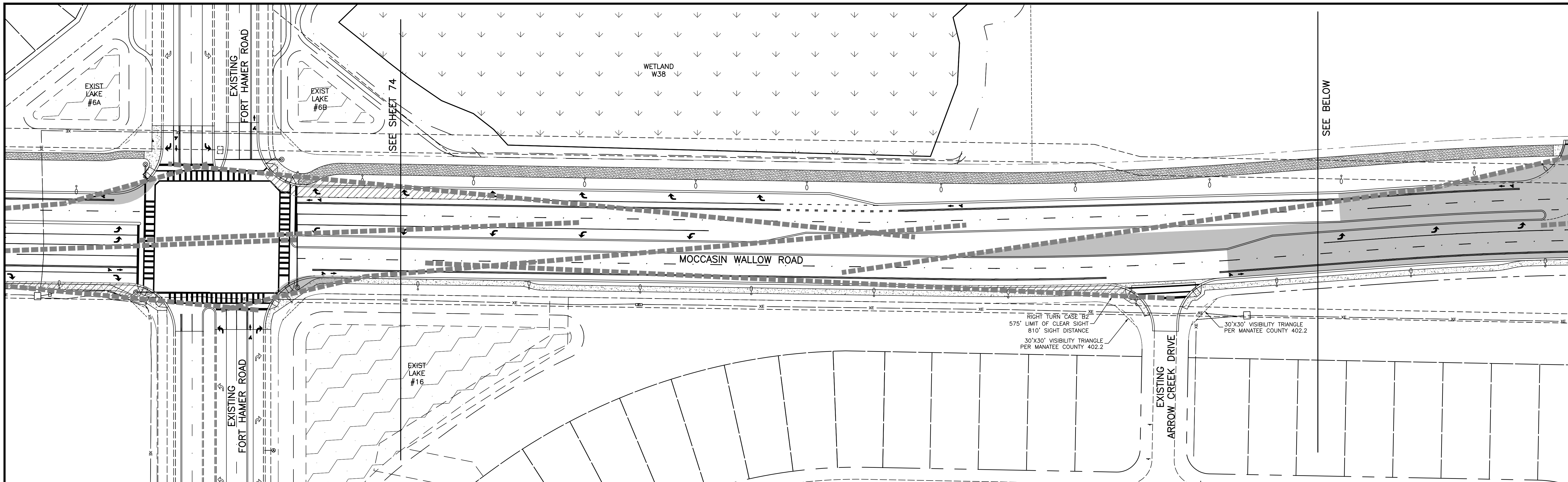
COPY	N	O	R	T	H	L
SPACE	9.7	15.4	20	23.8	27.7	21.4

COPY	S	O	U	T	H	L
SPACE	90.1	95.3	100	104.1	108	21.3

NOTES:
 1. SIGNAGE SIZING SHOP DRAWING SHALL BE SUBMITTED TO MANATEE COUNTY TRANSPORTATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION
 2. REFER TO FDOT INDEX 700-020 FOR MULTI-COLUMN GROUND SIGN



ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE: 10/2020 HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'	TITLE: INTERSECTION SIGHT DISTANCE	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-309SP SHEET NUMBER: 73 OF 112
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		PROJECT NUMBER: 215615900			CROSS REFERENCE FILE NO.: 19 20 335 19E		SHEET NUMBER: 73 OF 112	



ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE	<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	DATE: 10/2020 HORIZONTAL SCALE: 1" = 40' VERTICAL SCALE: 1" = 10' SHEET: 19 OF 20 CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215615900	TITLE: INTERSECTION SIGHT DISTANCE ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-309SP SHEET NUMBER: 74 OF 112
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL		
			80		81		82												
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	4465		4490		4600										13555		13555
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	292		687		257										1236		1236
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	37		50		36										123		123
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS					1										1		1
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA					1										1		1
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 8 - 6	LF	16839		19211		16774										52824		52824
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 - 2	LF					1686										1686		1686
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE, STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA	27		40		17										84		84
715-4-851	LIGHT POLE COMPLETE, F&I UTILITY CONFLICT POLE, INDEX 715-002 FOUND, 40' HT	EA	6				14										20		20
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA					1										1		1
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	33		40		31										104		104

DESIGNED BY:	INITIALS/EMP. NO.	DATE
DRAWN BY:		
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



6900 Professional Parkway East, Sarasota, FL 34240-8414
 Phone 941-907-6900 • Fax 941-907-6910
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 06/2022
 HORIZONTAL SCALE: NONE
 VERTICAL SCALE: NONE

TITLE: TABULATION OF QUANTITIES

FRANCISCO B. DOMINGO, P.E.
 P.E. LICENSE No. 51601
 INDEX NUMBER: 75 of 103

LIGHTING GENERAL NOTES:

1. THE MAINTAINING AGENCY IS MANATEE COUNTY. ALL MATERIALS AND INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FDOT STANDARD PLANS, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANATEE COUNTY TRAFFIC ENGINEERING MANUAL.
2. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.
3. SUBMIT DESIGN DATA AND SHOP DRAWINGS FOR ALL EQUIPMENT TO MANATEE COUNTY FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT:

MR. TAHA S. ATAYA, P.E.
PROJECT MANAGER
MANATEE COUNTY PUBLIC WORKS
1022 26th AVENUE EAST
BRADENTON, FLORIDA 34208-3916
PH. 941-708-7450, EXT. 7329
4. PROVIDE SHOP DRAWINGS OF THE PHOTOMETRIC CALCULATIONS FOR LUMINAIRES OTHER THAN THE BASIS OF DESIGN. THE LUMINAIRE BASIS OF DESIGN FOR MOCCASIN WALLOW ROAD, TWO SIGNALIZED INTERSECTIONS, AND THE US-301 ROUNDABOUT IS THE GE EVOLVE LED LUMINAIRE, 4000K COLOR TEMPERATURE WITH EITHER TYPE II (WIDE) OR TYPE IV DISTRIBUTION. SEE POLE DATA AND LEGEND SHEET FOR PHOTOMETRIC CURVES, WATTAGES, AND ADDITIONAL INFORMATION. MEET ALL PHOTOMETRIC REQUIREMENTS IN THE CONTRACT DOCUMENTS.
5. LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE PLANS ARE APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE UTILITY OWNERS, AND SERVE AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. NOTIFY UTILITY OWNERS FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
6. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) AT 800-432-4770 A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE WORK BEGINS. NOT ALL UTILITY OWNERS ARE MEMBERS OF SSOCOF.
7. LOCATIONS OF POLES, CONDUCTORS, CONDUITS, PULL AND JUNCTION BOXES, AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER TO ACCOMMODATE EXISTING CONDITIONS AND UTILITY LOCATIONS.
8. ALUMINUM POLES, LUMINAIRES, AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S " STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS", AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
9. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NEC), AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER NEC REQUIREMENTS.
10. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES ON THE OUTSIDE OF THE ENCLOSURE.
11. IN ACCORDANCE WITH NEC, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE ON EACH POLE.
12. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER OSHA'S CURRENT REQUIREMENTS OF ANY ENERGIZED ELECTRICAL CONDUCTORS. THE POWER COMPANY, AT IT'S OPTION, SHALL ASSIST THE CONTRACTOR TO COVER THE ENERGIZED CONDUCTORS AT INSTALLATION SITES OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.

TABLE A - MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(c)(3)(i)(A) AND iii(i)(A) FOR WORK INPROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.
13. FINAL OFFSETS FOR THE STREET LIGHT POLES OR ARMS SHALL BE A MINIMUM OF 10 FEET FROM OVERHEAD CONDUCTORS.
14. CONTACT THE APPROPRIATE POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING OR OTHER FEES ARE REQUIRED. ANY FEES SHALL BE INCLUDED AS PART OF THE PAYMENT FOR THE LOAD CENTER. OBTAIN ALL PERMITS AND INSPECTIONS FOR THE POWER SERVICE AND LOAD CENTER. COORDINATE THE CONSTRUCTION INSPECTION AND ENERGIZING OF THE NEW LOAD CENTER IN A TIMELY MANNER IN ORDER TO PROMOTE PROJECT COMPLETION WITHIN THE CONTRACT TIME.
15. COORDINATE WITH THE APPROPRIATE POWER COMPANY REPRESENTATIVE PRIOR TO CONSTRUCTION FOR THE FINAL SERVICE POINT LOCATION.
16. COORDINATE WITH THE APPROPRIATE POWER COMPANY ON SCHEDULES INVOLVING INSTALLATIONS LIGHT POLES AND FOUNDATIONS AT LOCATIONS IN CLOSE PROXIMITY TO OVERHEAD POWER LINES. USE ANY SPECIAL EQUIPMENT NEEDED FOR DRILLING AND/OR INSTALLING THE FOUNDATION AND LIGHT POLE TO AVOID DE-ENERGIZING THE POWER LINES WHERE POSSIBLE. A LOW PROFILE RIG SHALL BE USED AT LOCATIONS WHERE POWER LINES ARE IN CLOSE PROXIMITY BASED ON OSHA REQUIREMENTS.
17. PULLING REQUIREMENTS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET PER MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT NE LESS THAN RECOMMENDED BY THE NEC OR THE NESC FOR CABLE USED.
18. STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THIS INCLUDES NOTIFYING THE APPROPRIATE POWER COMPANY ON REVIEWING THE STAKED LOCATIONS WITH RESPECT TO OVERHEAD POWER LINES.
19. ALL CONDUITS UNDER ROADWAY, CONCRETE DRIVEWAYS AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE, DRIVEWAY CONCRETE AND SIDEWALK CONCRETE, EXCEPT WHERE OTHERWISE NOTED IN THE PLANS.
20. DIRECTIONAL BORE OPERATIONS SHALL MEET THE REQUIREMENTS OF FDOT'S UTILITY ACCOMMODATION MANUAL, LATEST EDITION.
21. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO (2) FEET OF LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, HAND DIG THE FIRST FOUR (4) FEET OF THE HOLE OR TRENCH FOR THE FOUNDATION OR CONDUIT RUN.
22. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISION THAT REQUIRES THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL, AND ABATEMENT OF WATER POLLUTION.

23. NO TEST BORINGS WERE MADE WHERE CONDUIT OR PULL BOXES ARE TO BE INSTALLED. CONTRACTOR IS RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS PRIOR TO SUBMITTING BID PROPOSALS.
24. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY, OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORKING PERIOD.
25. MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE, AND COMMERCIAL DRIVEWAYS AT ALL TIMES.
26. NO SCREW TYPE BASE FOUNDATIONS SHALL BE USED ON THIS PROJECT.
27. NOTIFY MANATEE COUNTY BEFORE AND TRENCHING OR DIGGING AT SIGNALIZED INTERSECTIONS SO THAT ALL UNDERGROUND FACILITIES CAN BE IDENTIFIED AND MARKED APPROPRIATELY.
28. THE LIGHTING SYSTEM WILL BE MAINTAINED BY MANATEE COUNTY UPON FINAL ACCEPTANCE. NOTIFY THE TRAFFIC ENGINEERING DIVISION (MR. VISHAL S. KAKKAD, 941-749-3502) AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE FINAL INSPECTION. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNY TO THE FOLLOWING:

MR. AARON BURKETT
MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
1204 12th STREET COURT EAST
BRADENTON, FLORIDA 34208
EMAIL: AARONBURKETT@MYMANATEE.ORG

THE COUNTY WILL RESPOND WITHIN FIVE (5) WORKING DAYS TO ESTABLISH A TIME TABLE FOR TRANSFER OF MAINTENANCE RESPONSIBILITY.

29. WHEN CONSTRUCTION IS COMPLETE, A HARD COPY AND ELECTRONIC PDF SET OF AS-BUILT PLANS IS TO BE SUBMITTED TO:

MANATEE COUNTY PUBLIC WORKS
ATTN: MR. VISHAL KAKKAD, PE, PTOE
TRAFFIC DESIGN DIVISION MANAGER
2101 47th TERRACE EAST
BRADENTON, FLORIDA 34203
EMAIL: VISHALKAKKAD@MYMANATEE.ORG

RECORD DRAWINGS AND INSPECTION FORMS MUST BE DELIVERED TO THE COUNTY AT LEAST TWO (2) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.

30. HANDHOLE COVERS FOR POLES SHALL BE LOCATED OPPOSITE APPROACHING TRAFFIC EXCEPT FOR POLES LOCATED IN GRAVITY WALLS. THESE POLES SHALL HAVE THE HANDHOLE COVERS LOCATED TOWARDS THE SIDEWALK.
31. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED IN THE PLANS.
32. THE WIRES AT THE POLE HANDHOLES AND PULL BOXES SHALL BE LOOPED WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS AND SPLICES ONE (1) FOOT OUTSIDE OF THE HANDHOLE OR PULL BOX. THE SLACK IS FOR MAKING CONNECTIONS AND SPLICES ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
33. LIGHT POLES AND PULL BOXES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, PAVED SHOULDERS, OR PEDESTRIAN RAMPS. COORDINATE WITH THE ENGINEER FOR AN APPROVED OFFSET ADJUSTMENT IF NECESSARY.
34. FOR LOCATIONS WHERE THE LIGHT POLE IS WITHIN OR ADJACENT TO PROPOSED SIDEWALK, TOP OF POLE FOUNDATION ELEVATION SHALL MATCH THE PROPOSED SIDEWALK GRADE.

ΔREV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

Stantec
4900 Professional Parkway East, Sarasota, FL 34249-8414
Phone 941-907-6900 • Fax 941-907-6910
Certificate of Authorization #27013 • www.stantec.com

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CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE:	06/2022	TITLE:	GENERAL NOTES	FRANCISCO B. DOMINGO, P.E. P.E. LICENSE No. 51601
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1	HORIZONTAL SCALE:	NONE	INDEX NUMBER:		
		VERTICAL SCALE:		SHEET NUMBER:	76	of 103
		SEC: 19 TWP: 33S RGE: 19E	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:	215615900	

LIGHTING PAY ITEM NOTES:

630-2-11:

INCLUDES CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING, AND BACKFILL AS INDICATED IN THE FDOT DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALK, SOD, ETC., TO ITS ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS. CONDUIT SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF 2 INCHES. MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS INSIDE.

PAYMENT FOR CONDUIT PLACED UNDERGROUND WILL BE BASED ON THE HORIZONTAL LENGTH OF THE TRENCH MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME TRENCH.

630-2-12:

ALL CONDUITS INSTALLED BY DIRECTIONAL BORE SHALL BE HDPE SDR-11 WITH A MINIMUM SIZE OF 2 INCHES. MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS INSIDE. CONDUIT AND TRANSITION COUPLING SHALL BE UL LISTED. ALL DIRECTIONAL BORES SHALL INCLUDE A SPARE 2 INCH CONDUIT WITH BOTH ENDS SWEEPING UP INTO A STREET LIGHTING PULL BOX. CAP BOTH ENDS OF THE SPARE CONDUIT WITH WATER TIGHT CAPS. SPARE CONDUIT SHALL BE POPULATED WITH A PULL CORD.

PAYMENT FOR CONDUIT PLACED BY DIRECTIONAL BORE WILL BE BASED ON THE HORIZONTAL LENGTH OF THE BORE MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME BORE.

635-2-11:

USE FDOT APPROVED COMPOSITE PULL BOXES MEASURING 24"L x 13"W x 18"D MINIMUM WITH HEAVY DUTY NON-METALLIC COVERS. GROUNDING IS NOT REQUIRED FOR PULL BOXES. COVERS SHALL BE STAMPED "STREET LIGHTING" IN RAISED LETTERS. INCLUDES THE COST OF THE CONCRETE APRON PER FDOT STANDARD PLANS INDEX 715-001. ITEM ALSO INCLUDES THE COST OF MANATEE COUNTY APPROVED SECURITY BOLTS FOR THE COVERS. SECURITY BOLTS SHALL BE INSTALLED UPON FINAL ACCEPTANCE.

639-1-122:

POWER SERVICE ASSEMBLY INCLUDES ALL EQUIPMENT AND MATERIALS NECESSARY FOR A COMPLETE AND ACCEPTABLE INSTALLATION AS INDICATED IN THE FDOT STANDARD PLANS, SPECIFICATIONS, AND POWER COMPANY REQUIREMENTS.

715-1-12:

ITEM INCLUDES CONDUCTORS AS INDICATED IN THE PLANS AND THE FDOT STANDARD PLANS. PAYMENT IS BASED ON THE LINEAR FEET OF A SINGLE CONDUCTOR.

715-4-13 & 715-4-851:

ITEM INCLUDES A STANDARD ALUMINUM LIGHT POLE, BRACKET ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH WASHERS AND LOCK NUTS, VIBRATION DAMPENING DEVICE, FRANGIBLE BREAKAWAY TRANSFORMER BASE AND FOUNDATION PER FDOT STANDARD PLANS INDEX 715-002. COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, STRAIN RELIEF, AND SURGE ARRESTOR SHALL BE PAID UNDER ITEM 715-500-1. ITEM ALSO INCLUDES EXTERNAL HOUSE SIDE, AND 6-INCH TALL LIGHT TRESPASS SHIELD ACCESSORIES. UTILITY CONFLICT POLE PER FDOT STANDARD PLANS INDEX 715-003 AND INCLUDES ALL OF THE ABOVE .

LUMINAIRES INCLUDED UNDER THIS ITEM SHALL BE GE EVOLVE LED WITH 4000K COLOR AND EITHER TYPE II WIDE OR TYPE IV DISTRIBUTION. SEE LEGEND AND POLE DATA SHEET FOR WATTAGES, PHOTOMETRIC CURVES, AND ADDITIONAL DETAILS.

ITEM ALSO INCLUDES THE MAINTENANCE SLAB AND PULL BOX AS SPECIFIED IN FDOT STANDARD PLANS INDEX 715-001. THE ORIENTATION OF THE SLAB MAY BE ADJUSTED BY THE CONTRACTOR UNDER APPROVAL OF THE ENGINEER. IF THE SLAB CONFLICTS WITH THE PROPOSED SIDEWALK OR RIGHT-OF-WAY LINE, THE SLAB SHALL BE MODIFIED BY ENDING THE SLAB ADJACENT TO THE EDGE OF SIDEWALK OR AT THE RIGHT-OF-WAY LINE. THERE SHOULD BE NO GAP BETWEEN THE SLAB AND THE EDGE OF SIDEWALK. SLAB ELEVATION SHALL MATCH THE BACK OF SIDEWALK ELEVATION.

715-7-11:

THE UNDERGROUND ELECTRICAL POWER SERVICE SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD PLANS AND SPECIFICATIONS TO FURNISH AND INSTALL THE LIGHTING LOAD CENTER. MATERIALS INCLUDE, BUT ARE NOT LIMITED TO: FUSED CONTROL POWER TRANSFORMERS, CABINET, ADDITIONAL ENCLOSURES, PANEL BOARDS, MAIN BREAKER, BRANCH CIRCUIT BREAKERS, FUSES, LIGHTNING ARRESTOR, PHOTO-ELECTRIC ASSEMBLY, CONTACTOR, H.O.A. SWITCH, AND ALL MISCELLANEOUS HARDWARE REQUIRED FOR A COMPLETE INSTALLATION.

THE LOAD CENTER SHALL BE THREE WIRE, SINGLE PHASE, 240/480V POWER SERVICE ASSEMBLY.

715-1-111:

FURNISH AND INSTALL LUMINAIRES INDICATED ON THE POLE DATA SHEET ON EXISTING MAST ARM POLE MOUNTED BRACKET ARMS. ITEM INCLUDES ALL MATERIALS REQUIRED TO CONNECT THE LUMINAIRES TO THE DEDICATED CIRCUIT BREAKER AND PHOTO-ELECTRIC CELL INSIDE THE TRAFFIC SIGNAL CONTROLLER CABINET.

715-500-1:

INCLUDES COST OF BREAKAWAY WATERTIGHT IN-LINE FUSE HOLDERS, STRAIN RELIEF, AND SURGE ARRESTOR AS INDICATED IN FDOT STANDARD PLANS INDEX 715-001.

						ACTIVITY	INITIALS/EMP. NO.	DATE	 <p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE:	06/2022	TITLE:	PAY ITEM NOTES	FRANCISCO B. DOMINGO, P.E. P.E. LICENSE No. 51601			
						DESIGNED BY:					PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1	HORIZONTAL SCALE:	NONE		INDEX NUMBER:			
						DRAWN BY:							VERTICAL SCALE:						
						CHECKED BY:							SEC:	TWP:	RGE:	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:	215615900	SHEET NUMBER:
ΔREV. NO.	REVISION		DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:													

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
100	A-2	173+24	15'	111	40'	43.0'	715-4-13
101	A-1	172+49	15'	111	40'	20.0'	715-4-13
102	A-2	174+69	15'	111	40'	43.0'	715-4-13
103	A-1	173+94	15'	111	40'	20.0'	715-4-13
104	A-2	176+14	15'	111	40'	BACK OF SIDEWALK	715-4-13
105	A-1	175+39	15'	111	40'	20.0'	715-4-13
106	A-2	177+59	15'	111	40'	BACK OF SIDEWALK	715-4-13
107	A-1	176+84	15'	111	40'	20.0'	715-4-13
108	A-2	179+04	16'	111	40'	BACK OF SIDEWALK	715-4-851
109	A-1	178+29	15'	111	40'	20.0'	715-4-13
110	A-2	180+49	16'	111	40'	BACK OF SIDEWALK	715-4-851
111	A-1	179+74	15'	111	40'	BACK OF SIDEWALK	715-4-13
112	A-2	181+94	16'	111	40'	BACK OF SIDEWALK	715-4-851
113	A-1	181+19	15'	111	40'	BACK OF SIDEWALK	715-4-13
114	A-2	183+39	16'	111	40'	10.0'	715-4-851
115	A-1	182+64	15'	111	40'	BACK OF SIDEWALK	715-4-13
116	A-2	184+84	16'	111	40'	10.0'	715-4-851
117	A-1	184+09	15'	111	40'	BACK OF SIDEWALK	715-4-13
118	A-2	186+29	16'	111	40'	10.0'	715-4-851
119	A-1	185+54	15'	111	40'	BACK OF SIDEWALK	715-4-13
120	A-2	187+47	15'	111	40'	9.0'	715-4-13
121	A-1	186+87	15'	111	40'	BACK OF SIDEWALK	715-4-13
122	A-2	188+67	15'	111	40'	9.0'	715-4-13
123	A-1	188+07	15'	111	40'	BACK OF SIDEWALK	715-4-13
124	A-2	189+85	15'	149	40'	7.0'	715-4-13
125	A-1	189+18	15'	111	40'	BACK OF SIDEWALK	715-4-13
126		~ NOT USED ~					
127		~ NOT USED ~					
128	A-2	191+51	15'	149	40'	54.0'	715-4-13
129		~ NOT USED ~					
130		~ NOT USED ~					
131	A-1	192+96	15'	149	40'	10.0'	715-4-13
132	A-2	192+66	15'	111	40'	BACK OF SIDEWALK	715-4-13
133	A-1	194+42	15'	149	40'	10.0'	715-4-13
134	A-2	193+85	15'	111	40'	BACK OF SIDEWALK	715-4-13
135	A-1	195+64	15'	111	40'	8.0'	715-4-13
136	A-2	195+05	15'	111	40'	BACK OF SIDEWALK	715-4-13
137	A-1	196+84	15'	111	40'	8.0'	715-4-13
138	A-2	196+27	16'	111	40'	BACK OF SIDEWALK	715-4-13
139	A-1	198+29	15'	111	40'	8.0'	715-4-13
140	A-2	197+58	16'	111	40'	BACK OF SIDEWALK	715-4-13
141	A-1	199+74	15'	111	40'	8.0'	715-4-13
142	A-2	199+01	16'	177	40'	BACK OF SIDEWALK	715-4-13
143	A-1	201+19	15'	111	40'	8.0'	715-4-13
144	A-2	200+48	16'	82	40'	4.0' FRONT OF SIDEWALK	715-4-13
145	A-1	202+39	15'	111	40'	8.0'	715-4-13
146	A-2	201+62	16'	82	40'	4.0' FRONT OF SIDEWALK	715-4-13
147	A-1	203+59	15'	111	40'	8.0'	715-4-13

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Horizontal Fc 1.5 Foot Candles
 Uniformity Ratio Avg./Min. 4:1 Or Less
 Max./Min. 10:1 Or Less
 Veiling Luminance Ratio 0.3:1 Or Less
 Wind Speed 140 mph

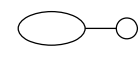
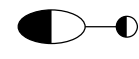
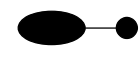
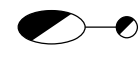
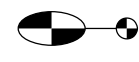

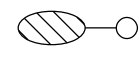
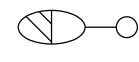
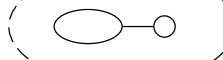
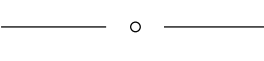

SIGNALIZED INTERSECTION LIGHTING DESIGN CRITERIA

Average Horizontal Fc 3.0 Foot Candles (1.5 fc Min.)
 Uniformity Ratio Avg./Min. 4:1 Or Less
 Max./Min. 10:1 Or Less
 Average Vertical Fc 1.5 Foot Candles (1.2 fc Min.)
 Wind Speed 140 mph

LEGEND

SYMBOLS

DESCRIPTION

-  111W LED luminaire with single 15' arm. GE Evolve ERLH designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERLH_13B340 or equal. Symbol includes concrete slab and pull box.
-  82W LED luminaire with single 15' arm. GE Evolve ERLH designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERLH_10B340 or equal. Symbol includes concrete slab and pull box.
-  149W LED luminaire with single 15' arm. GE Evolve ERLH designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERLH_16B340 or equal. Symbol includes concrete slab and pull box.
-  278W LED luminaire with single 15' arm. GE Evolve ERL2 designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_30B340 or equal. Symbol includes concrete slab and pull box.
-  177W LED luminaire with single 15' arm. GE Evolve ERL2 designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_21B340-347-480V or equal. Symbol includes concrete slab and pull box.
-  278W LED luminaire with single 15' arm. GE Evolve ERL2 designed for Type IV distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_30D340 or equal. Symbol includes concrete slab and pull box.
-  214W LED luminaire with single 15' arm. GE Evolve ERL2 designed for Type IV distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_25D340 or equal. Symbol includes concrete slab and pull box.
-  196W LED luminaire with single 15' arm. GE Evolve ERL2 designed for Type IV distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_23D340-347-480V or equal. Symbol includes concrete slab and pull box.
-  Utility conflict pole per Standard Plans Index 715-003 with 111W LED luminaire. GE Evolve ERLH designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERLH_13B340 or equal. Symbol includes concrete slab and pull box.
-  Utility conflict pole per Standard Plans Index 715-003 with 177W LED luminaire. GE Evolve ERL2 designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL2_21B340-347-480V or equal. Symbol includes concrete slab and pull box.
-  Utility conflict pole per Standard Plans Index 715-003 with 149W LED luminaire. GE Evolve ERLH designed for Type II (Wide) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERLH_16B340 or equal. Symbol includes concrete slab and pull box.
-  Existing single arm pole to remain.
-  Existing dual arm pole to remain.
-  Schedule 40 PVC conduit with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) copper bond conductor (TW green insulation) inside conduit with other conductors.
-  Schedule 40 PVC conduit directional bored under pavement with THW or THWN conductors inside (conduit and conductor size as shown on plan sheets). Run one (1) copper bond conductor (TW green insulation) inside conduit with other conductors.
-  Pull box. For specifications see Section 635 of the FDOT Standard Specifications For Road And Bridge Construction.
-  Service point. For requirements see Standard Plans Index No. 639-001.

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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE: 06/2022	TITLE: POLE DATA & LEGEND	FRANCISCO B. DOMINGO, P.E. LICENSE No. 51601
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	HORIZONTAL SCALE: NONE	INDEX NUMBER:	
	VERTICAL SCALE:	SHEET NUMBER: 78 of 103	
	SEC: 19 TWP: 33S RGE: 19E	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 215615900

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
148	A-2	202+67	16'	82	40'	4.0' FRONT OF SIDEWALK	715-4-13
149	A-1	204+79	15'	111	40'	8.0'	715-4-13
150	A-2	203+81	16'	177	40'	4.0' FRONT OF SIDEWALK	715-4-13
151	A-1	205+99	15'	111	40'	8.0'	715-4-13
152	A-2	205+28	16'	82	40'	4.0' FRONT OF SIDEWALK	715-4-13
153	A-1	207+19	15'	111	40'	8.0'	715-4-13
154	A-2	206+66	16'	82	40'	4.0' FRONT OF SIDEWALK	715-4-13
155	A-1	208+39	15'	111	40'	8.0'	715-4-13
156	A-2	208+22	16'	177	40'	4.0' FRONT OF SIDEWALK	715-4-13
157	A-1	209+03	15'	278	40'	7.0'	715-4-13
158	A-2	209+16	16'	278	40'	BACK OF SIDEWALK	715-4-13
159	A-1	210+84	15'	278	40'	BACK OF SIDEWALK	715-4-13
160	A-2	210+74	16'	278	40'	BACK OF SIDEWALK	715-4-13
161	A-1	211+48	15'	111	40'	FRONT OF SIDEWALK	715-4-13
162	A-2	212+09	16'	111	40'	12.0'	715-4-13
163	A-1	212+68	15'	111	40'	FRONT OF SIDEWALK	715-4-13
164	A-2	213+29	16'	111	40'	BACK OF SIDEWALK	715-4-13
165	A-1	213+88	15'	111	40'	FRONT OF SIDEWALK	715-4-13
166	A-2	214+50	16'	111	40'	BACK OF SIDEWALK	715-4-13
167	A-1	215+08	15'	111	40'	FRONT OF SIDEWALK	715-4-13
168	A-2	215+70	16'	111	40'	BACK OF SIDEWALK	715-4-13
169	A-1	216+28	15'	111	40'	FRONT OF SIDEWALK	715-4-13
170	A-2	217+02	16'	111	40'	BACK OF SIDEWALK	715-4-13
171	A-1	217+73	15'	111	40'	FRONT OF SIDEWALK	715-4-13
172	A-2	218+46	16'	111	40'	BACK OF SIDEWALK	715-4-13
173	A-1	219+21	15'	111	40'	FRONT OF SIDEWALK	715-4-13
174	A-2	219+82	16'	177	40'	BACK OF SIDEWALK	715-4-13
175	A-1	220+69	15'	111	40'	18.0'	715-4-13
176	A-2	221+33	16'	111	40'	BACK OF SIDEWALK	715-4-13
177	A-1	222+11	15'	111	40'	18.0'	715-4-13
178	A-2	222+79	16'	111	40'	BACK OF SIDEWALK	715-4-13
179	A-1	223+53	15'	111	40'	18.0'	715-4-13
180	A-4	224+26	16'	111	40'	BACK OF SIDEWALK	715-4-13
181	A-3	224+26	15'	149	40'	10.0'	715-4-13
182	A-4	225+73	15'	111	40'	BACK OF SIDEWALK	715-4-13
183	A-3	225+54	15'	149	40'	BACK OF SIDEWALK	715-4-13
184	A-4	227+18	15'	111	40'	BACK OF SIDEWALK	715-4-13
185	A-3	226+47	15'	111	40'	BACK OF SIDEWALK	715-4-13
186	A-4	228+69	15'	111	40'	BACK OF SIDEWALK	715-4-13
187	A-3	227+89	15'	111	40'	BACK OF SIDEWALK	715-4-13
188	A-4	230+22	16'	149	40'	BACK OF SIDEWALK	715-4-851
189	A-3	229+34	15'	111	40'	FRONT OF SIDEWALK	715-4-13
190	A-4	231+67	16'	111	40'	BACK OF SIDEWALK	715-4-851
191	A-3	230+79	15'	111	40'	FRONT OF SIDEWALK	715-4-13
192	A-4	233+16	16'	149	40'	BACK OF SIDEWALK	715-4-851
193	A-3	232+23	15'	111	40'	FRONT OF SIDEWALK	715-4-13
194	A-4	234+43	16'	149	40'	BACK OF SIDEWALK	715-4-851
195	A-3	233+68	15'	149	40'	FRONT OF SIDEWALK	715-4-13

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
196	A-4	235+88	16'	149	40'	BACK OF SIDEWALK	715-4-851
197	A-3	235+13	15'	149	40'	FRONT OF SIDEWALK	715-4-13
198	A-4	237+33	16'	149	40'	BACK OF SIDEWALK	715-4-851
199	A-3	236+58	15'	149	40'	FRONT OF SIDEWALK	715-4-13
200	A-4	238+78	16'	149	40'	BACK OF SIDEWALK	715-4-851
201	A-3	238+03	16'	149	40'	BACK OF SIDEWALK	715-4-851
202	A-3	240+23	16'	149	40'	BACK OF SIDEWALK	715-4-851
203	A-3	239+48	16'	149	40'	BACK OF SIDEWALK	715-4-851
204	A-4	241+66	16'	149	40'	BACK OF SIDEWALK	715-4-851
205	A-3	240+97	16'	149	40'	BACK OF SIDEWALK	715-4-851
206	A-4	243+11	15'	149	40'	BACK OF SIDEWALK	715-4-13
207	A-3	242+42	16'	149	40'	BACK OF SIDEWALK	715-4-851
208	A-4	244+58	15'	111	40'	BACK OF SIDEWALK	715-4-13
209	A-3	243+87	16'	177	40'	BACK OF SIDEWALK	715-4-851

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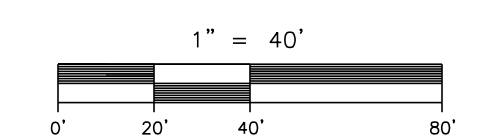
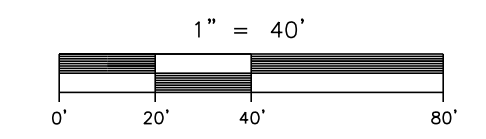
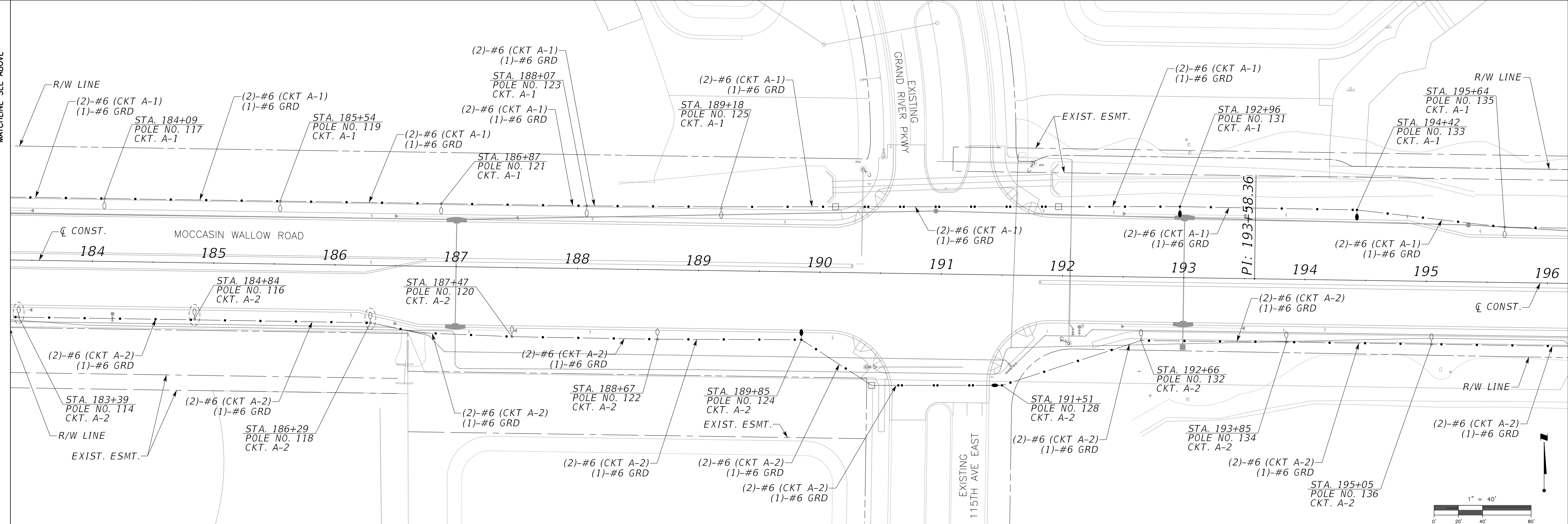
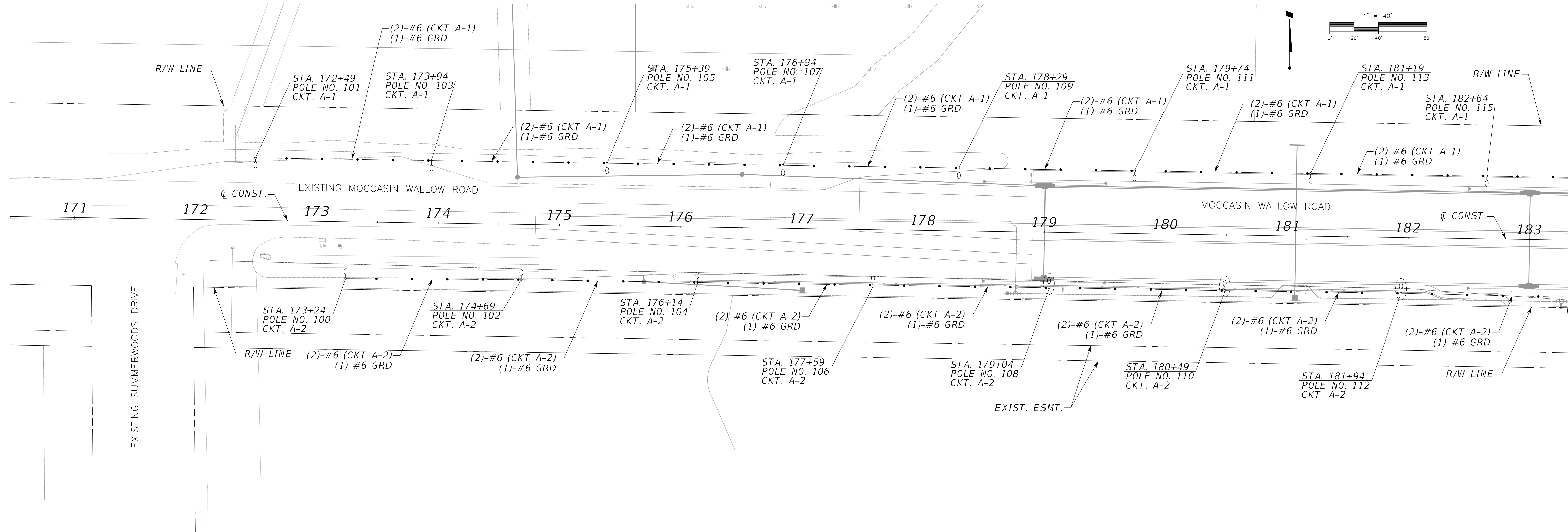
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CLIENT: MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD
SEGMENT 1

DATE: 06/2022
HORIZONTAL SCALE: NONE
VERTICAL SCALE:
SEC: TWP: RGE: CROSS REFERENCE FILE NO.:
PROJECT NUMBER: 215615900
INDEX NUMBER:
SHEET NUMBER: 79 OF 103

FRANCISCO B. DOMINGO, P.E.
P.E. LICENSE NO. 51601



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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

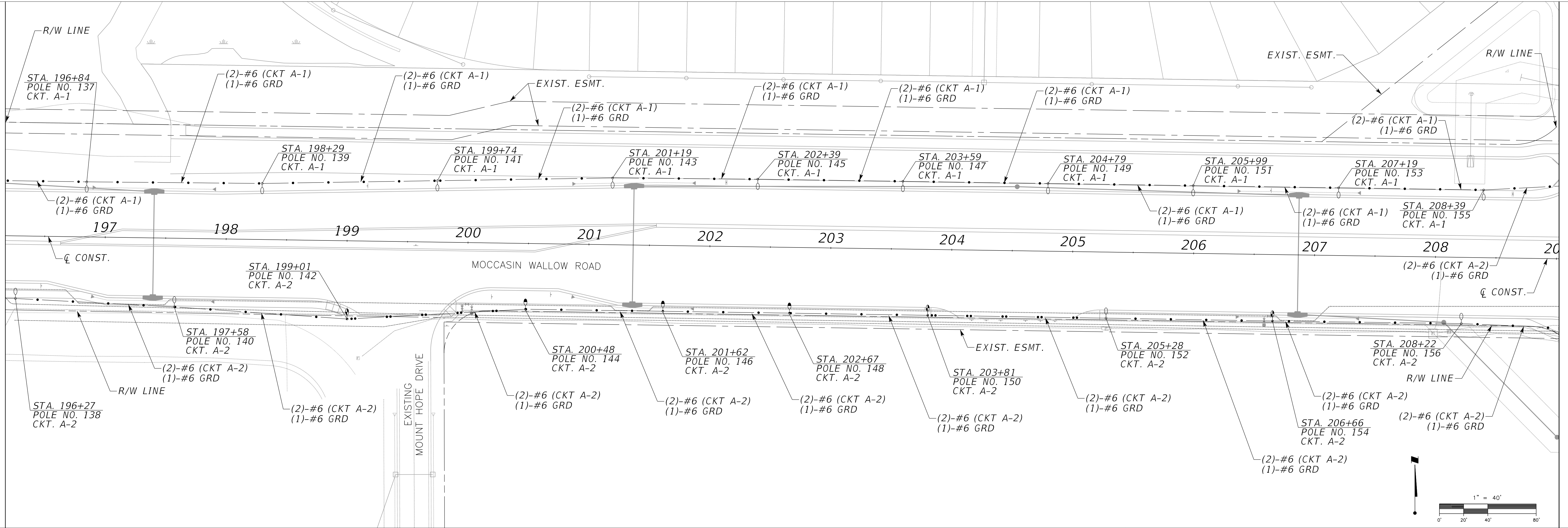
DATE: 06/2022
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'

TITLE: LIGHTING PLAN
 CROSS REFERENCE FILE NO.:
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 80 OF 103

FRANCISCO B. DOMINGO, P.E.
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 INDEX NUMBER:

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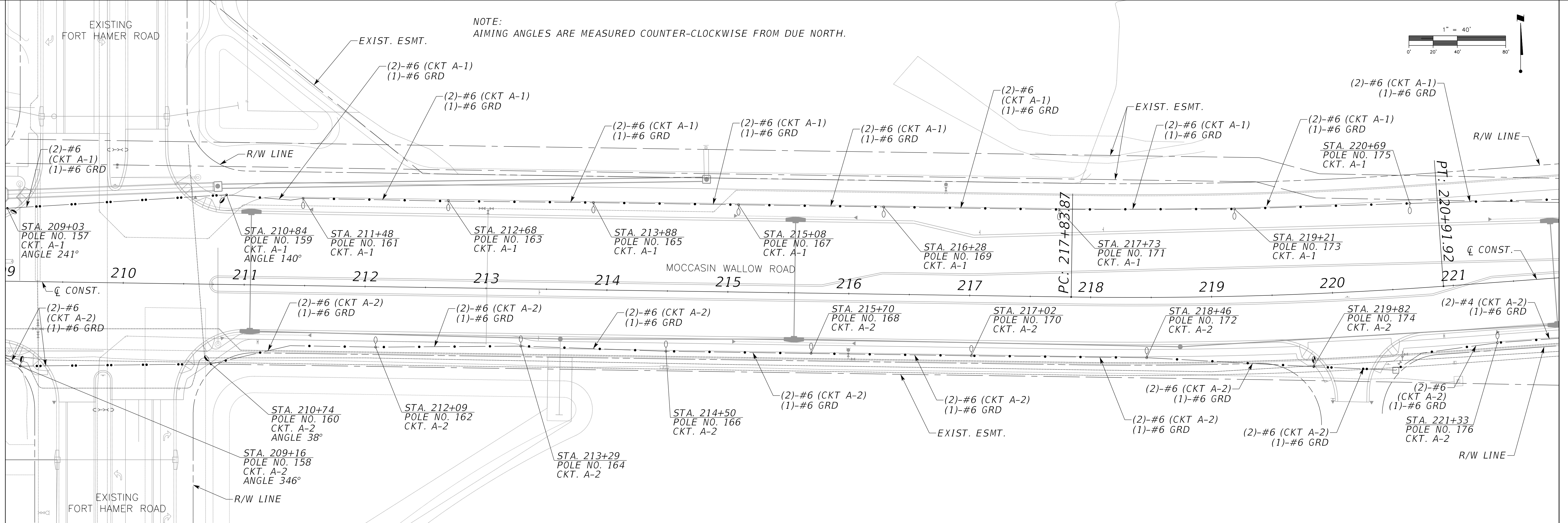
MATCHLINE SEE BELOW



NOTE:
AIMING ANGLES ARE MEASURED COUNTER-CLOCKWISE FROM DUE NORTH.

MATCHLINE SEE ABOVE

MATCHLINE SEE NEXT SHEET



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ACTIVITY	INITIALS/EMP. NO.	DATE
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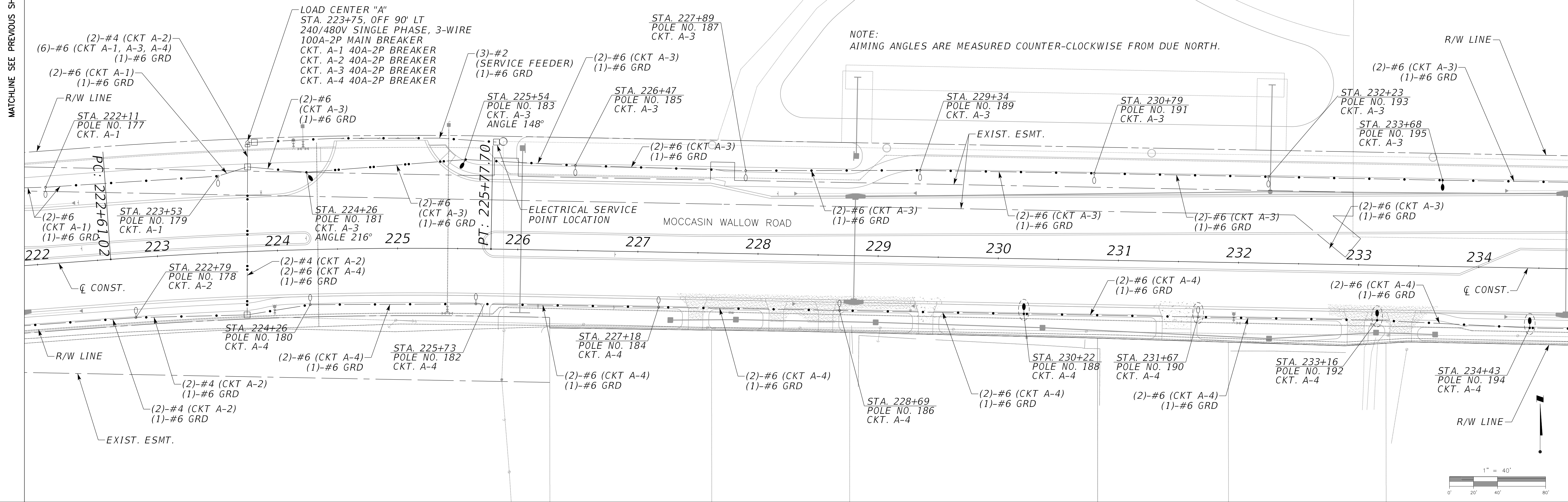
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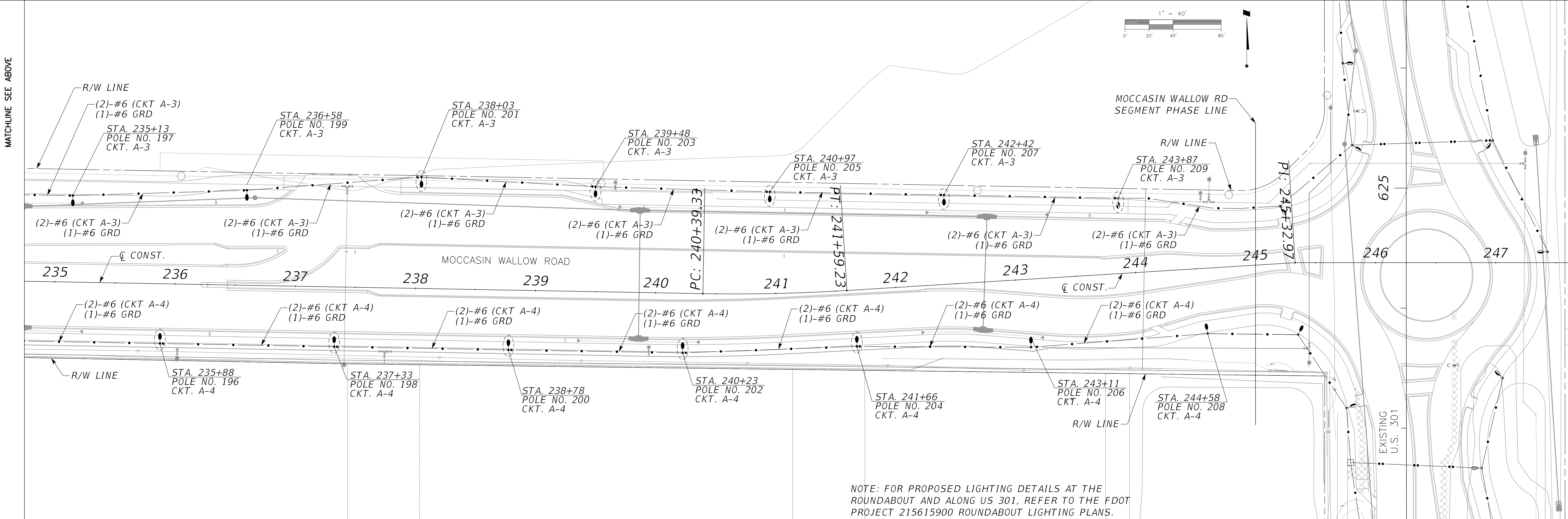
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 P.E. LICENSE No. 51601
 INDEX NUMBER:
 SHEET NUMBER: 81 OF 103

MATCHLINE SEE PREVIOUS SHEET

MATCHLINE SEE BELOW



MATCHLINE SEE ABOVE



NOTE: FOR PROPOSED LIGHTING DETAILS AT THE ROUNDABOUT AND ALONG US 301, REFER TO THE FDOT PROJECT 215615900 ROUNDABOUT LIGHTING PLANS.

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DATE: 06/2022
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 40'
 SHEET NUMBER: 82 OF 103
 PROJECT NUMBER: 215615900
 TITLE: LIGHTING PLAN
 FRANCISCO B. DOMINGO, P.E. LICENSE NO. 51601

PANEL SCHEDULE A					
NEMA-4X SST: 1Ø,3W, 240/480V, XX AIC, (2P - 100A Main Ckt. Breaker)					
CKT.	SERVING	KVA	AMPS	C. BKR.	WIRE/ CONDUCT
A-1	LIGHTING	4.56	9.50	2P/40A	(2) - 6 AWG. (1) - 6 AWG.
A-2	LIGHTING	4.75	9.90	2P/40A	(2) - 4 AWG. (1) - 6 AWG.
A-3	LIGHTING	4.22	8.80	2P/40A	(2) - 6 AWG. (1) - 6 AWG.
A-4	LIGHTING	2.69	5.60	2P/40A	(2) - 6 AWG. (1) - 6 AWG.
A-5	SPACE				
A-6	SPACE				

DEMAND LOAD ANALYSIS

BASED ON 480V/240V, 1Ø, 3W TOTAL DEMAND LOAD:

CONTINUOUS LOAD = 16.22 KVA	$\text{AMP} = \frac{\text{KVA}}{\text{KV}} = \frac{20.28 \text{ KVA}}{0.480 \text{ KV}} = 42 \text{ AMPS}$
25% CONT. LOAD = 4.06 KVA	
TOTAL = 20.28 KVA	

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CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1

DATE:	06/2022
HORIZONTAL SCALE:	NONE
VERTICAL SCALE:	NONE
SEC:	19
TWP:	33S
RGE:	19E

TITLE:	PANEL SCHEDULE
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	215615900

FRANCISCO B. DOMINGO, P.E. P.E. LICENSE No. 51601
INDEX NUMBER:
SHEET NUMBER: 83 of 103

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY **DATE**

6/12/07
DATE OF B.O.C.C. APPROVAL

CURB RAMP DETECTABLE WARNINGS

302.3

NOTES:
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:
 $CONTRAST = \frac{B1 - B2}{B1} \times 100$
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
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6/12/07
DATE OF B.O.C.C. APPROVAL

SIDEWALK REQUIREMENTS

301.1

NOTE: SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY **DATE**

6/12/07
DATE OF B.O.C.C. APPROVAL

URBAN DRIVES

101.1

NOTE: 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, 35' max.)

(A) CONSTRUCT WITH 6" REINFORCED CONCRETE 3000 PSI @ 28 DAYS, 6"x6" #10 WIRE MESH FROM BACK OF CURB TO R/W LINE.
(B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ON PREVIOUS PAGE (STD. 101.0)
(C) MAINTAIN EXISTING DRAINAGE FLOWLINE. FOR PIPING SPECIFICATIONS REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 430, SEE NOTE 4, PAGE 100.1. SEE SECTION 200-- DRAINAGE (STD. 200.0, 202.5).
(D) 3"x8" FLARE OR 18" RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2. NO CHANGE WITH 3' VALLEY CROSSINGS - SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.
(E) EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.
(F) LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY **DATE**

6/12/07
DATE OF B.O.C.C. APPROVAL

CURB CUT & TRANSITION W/ T-FLARE FOR RESIDENTIAL DRIVES

101.2

NOTE: TYPE "F" CURB 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)

(A) REMOVE TYPE "F" CURB AND GUTTER, REPLACE WITH MIAMI CURB AND GUTTER.
* NO CHANGE WITH 3' VALLEY CROSSING
(B) REMOVE EXISTING SIDEWALK, REPLACE WITH 6" CONCRETE, 6"x6" #10 MESH 3000 PSI AT 28 DAYS.
(C) DRIVEWAY CONSTRUCTED WITH 6" CONCRETE WITH 6"x6" #10 MESH 3000 PSI AT 28 DAYS
(D) EXPANSION JOINT 1/2" PREFORMED JOINT FILLER PER FDOT SECTION 932-1.1 OR APPROVED ALTERNATE
(E) SIDEWALK ON LOCAL STREETS, 5' SIDEWALK ON THOROUGHFARES, MIXED USE PATHS MAY REQUIRE 8' SIDEWALKS PER LAND DEVELOPMENT CODE.
(F) SAWCUT (1/4" THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

MANATEE COUNTY
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6/12/07
DATE OF B.O.C.C. APPROVAL

ROAD CONNECTION DETAIL

403.3

NOTE: LIMITS OF OVERLAY - EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.
** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS. SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

MANATEE COUNTY
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6/12/07
DATE OF B.O.C.C. APPROVAL

TYPE "AB" MODIFIED CURB & GUTTER

201.3

NOTE: SEE NOTE NO. 2 FOR MEDIAN CURBING

A) CLASS 1 CONCRETE 3,000 PSI 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
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6/12/07
DATE OF B.O.C.C. APPROVAL

TYPE F CURB & GUTTER

201.2

NOTE: SEE NOTE NO. 2 FOR MEDIAN CURBING

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.

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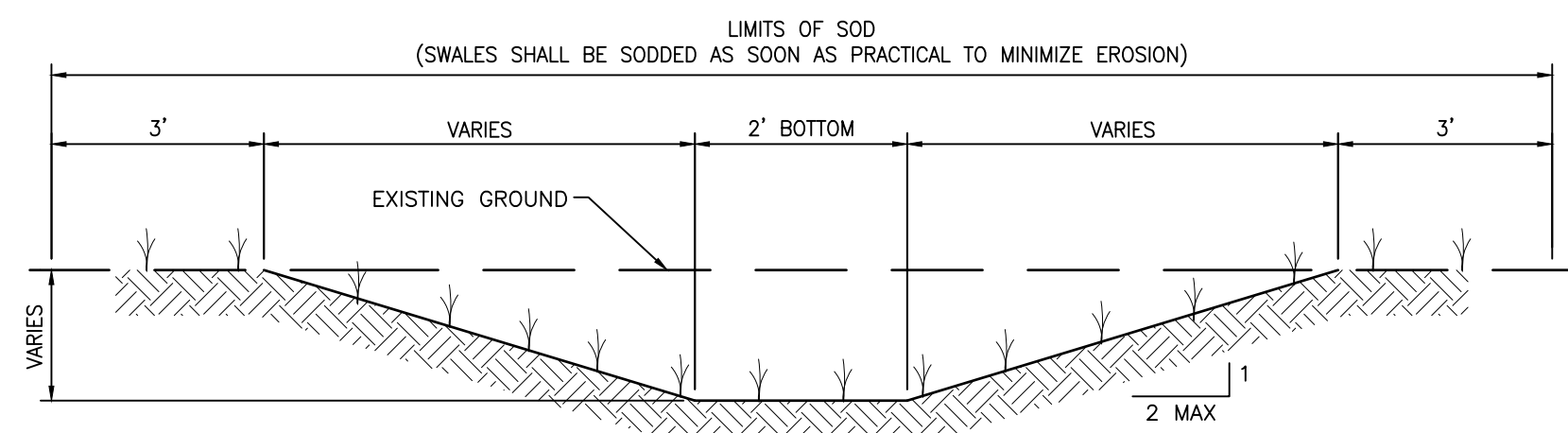
VALLEY CROSSING

201.6

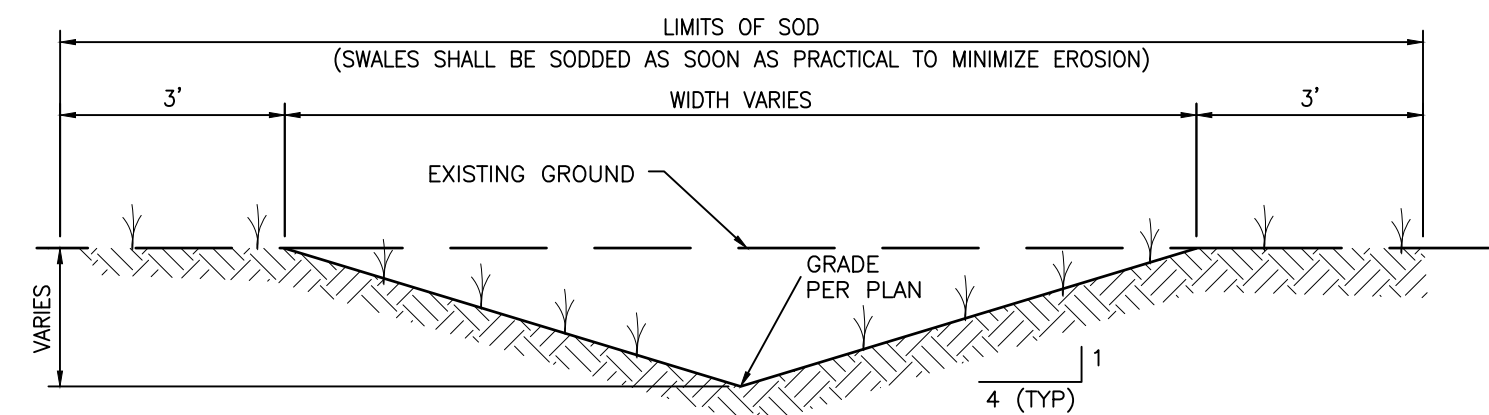
* CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.

CURB NOTES:

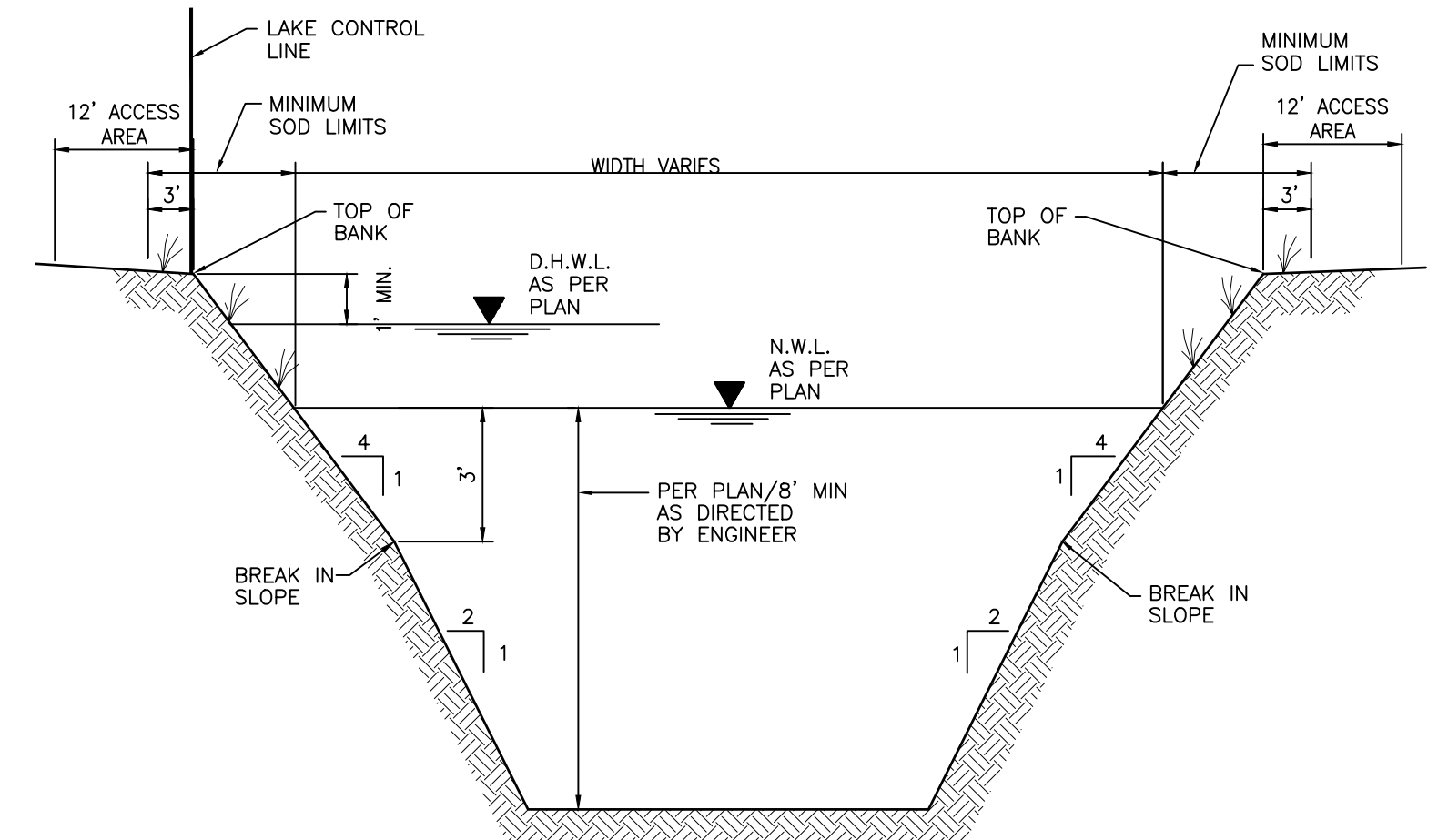
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
- WHEN USED ON THE HIGH SIDE OF THE ROADWAYS THE CROSS SLOPE OF THE GUTTER SHALL MATCH THE CROSS SLOPE OF THE ADJACENT PAVEMENT.
- AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONSTRUCTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 520-001
- EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.
- 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. 520-001, LATEST REVISION.



CONVEYANCE SWALE
N.T.S.

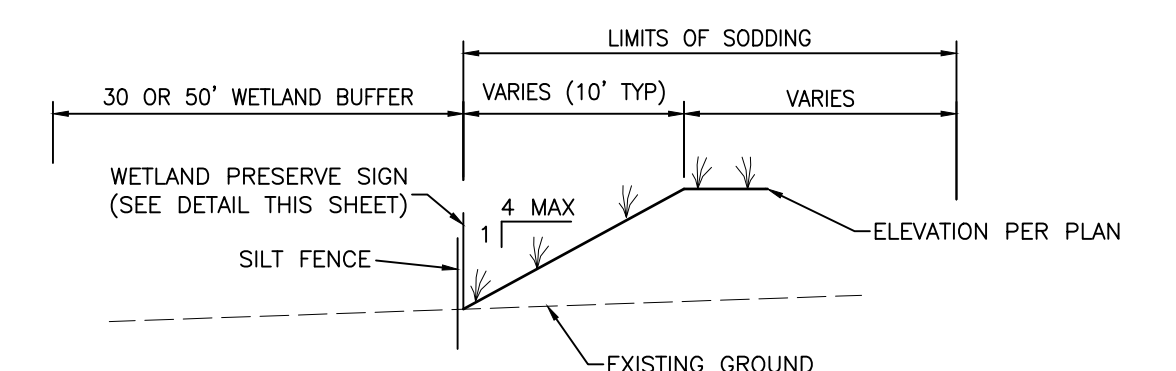


TYPICAL SWALE SECTION
N.T.S.

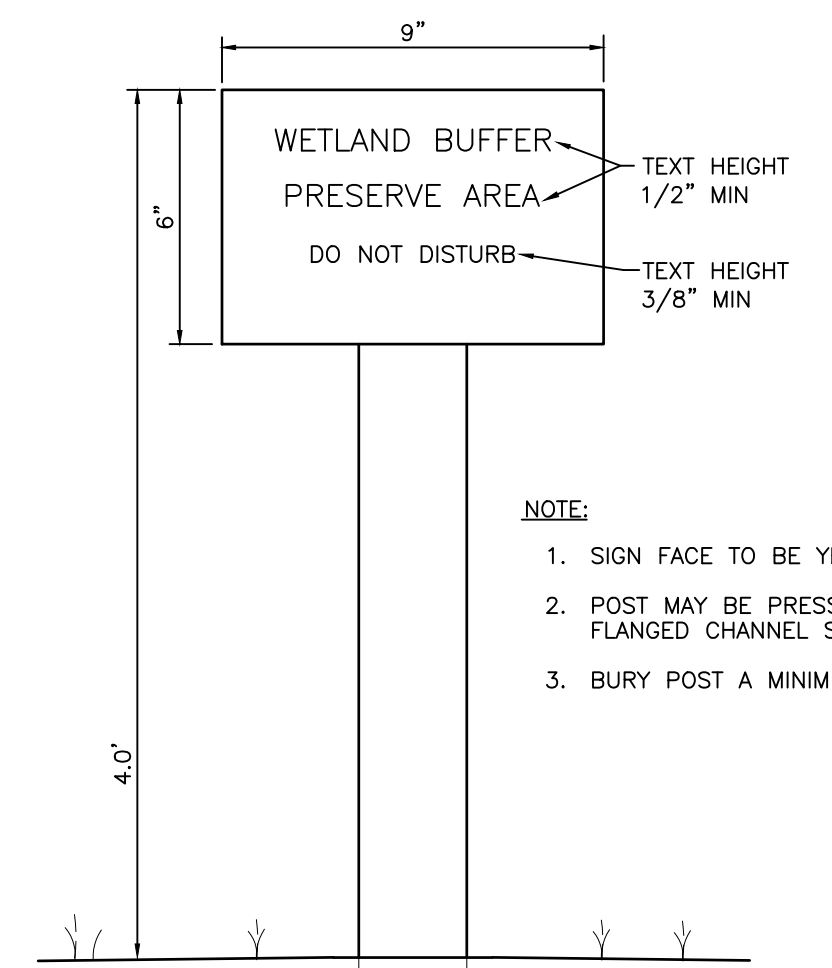


TYPICAL LAKE SECTION
N.T.S.

NOTE:
IN THE EVENT UNSUITABLE MATERIAL IS ENCOUNTERED
PLEASE REFER TO FDOT STANDARD PLANS 120-001
AND 120-002 FOR THE PROPER REMOVAL



TYPICAL WETLAND BUFFER SECTION
N.T.S.



TYPICAL WETLAND BUFFER SIGN DETAIL
N.T.S.

- NOTE:
1. SIGN FACE TO BE YELLOW WITH BLACK TEXT.
 2. POST MAY BE PRESSURE TREATED 4"x4" OR FLANGED CHANNEL STEEL (1 1/2").
 3. BURY POST A MINIMUM OF 3.0'.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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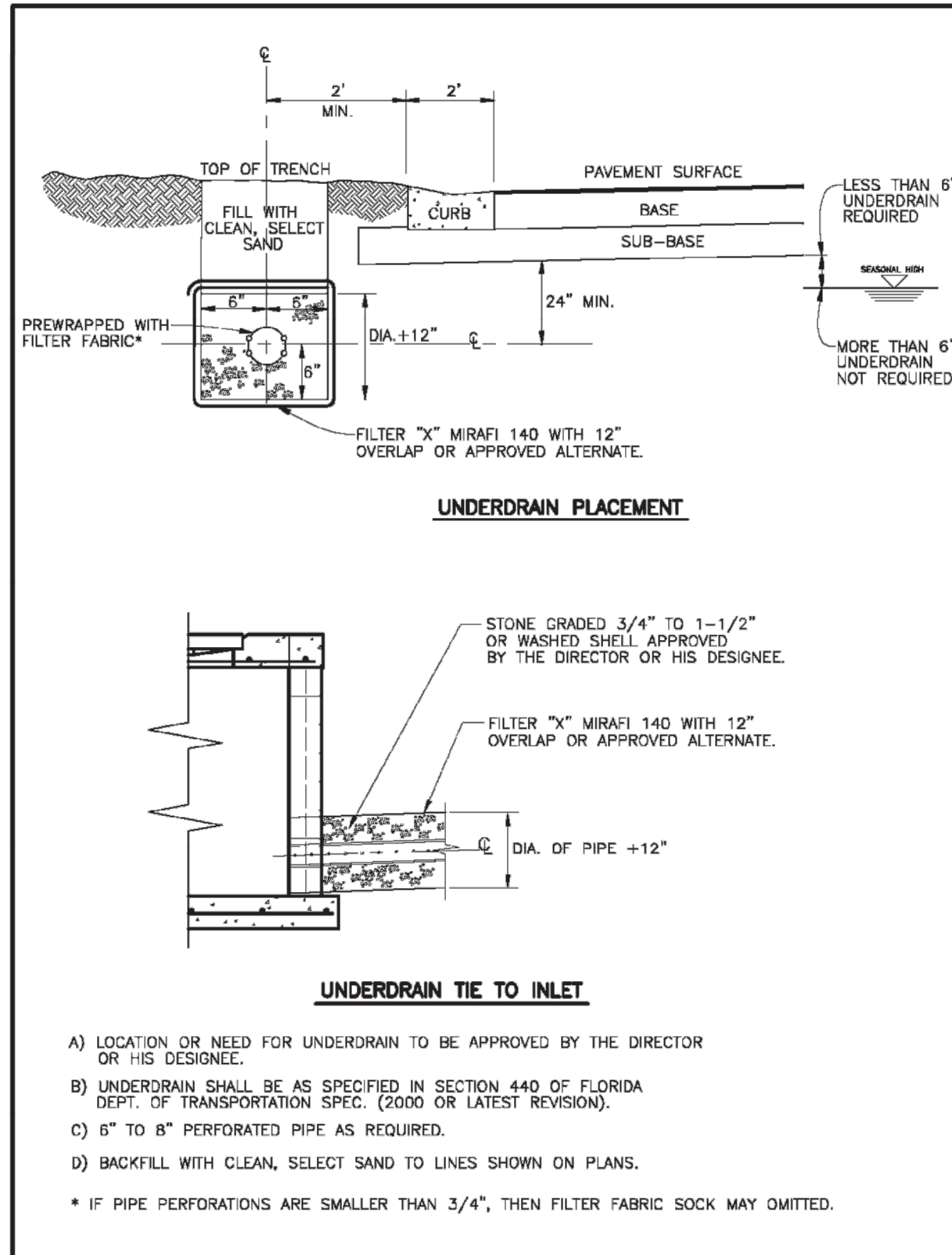
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CLIENT: **MANATEE COUNTY PUBLIC WORKS DEPARTMENT**
PROJECT: **MOCCASIN WALLOW ROAD SEGMENT 1**

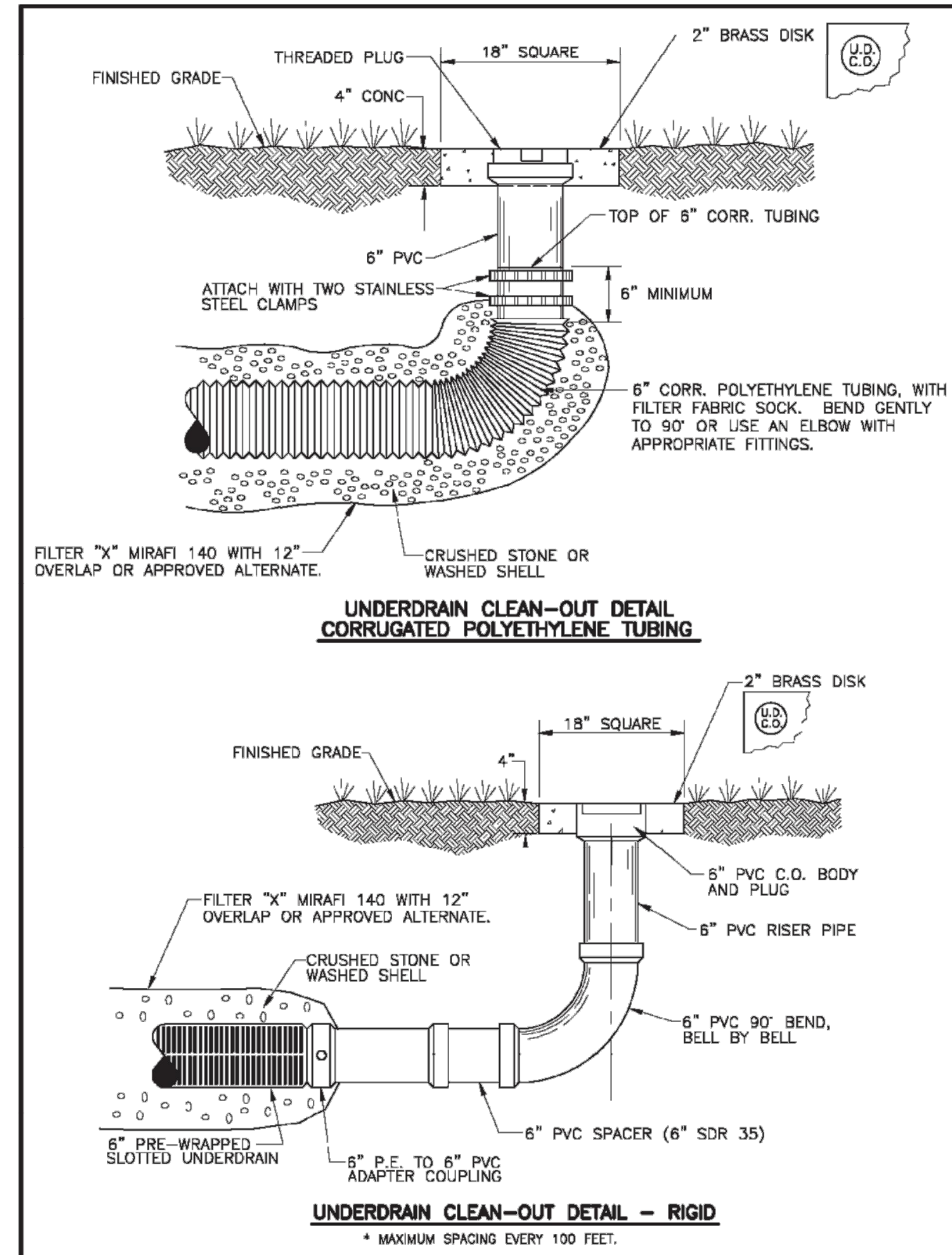
DATE: **10/2020**
HORIZONTAL SCALE: **1" = 30'**
VERTICAL SCALE: **1" = 3.0'**

TITLE: **PAVING AND GRADING DETAILS**
PROJECT NUMBER: **215615900**
SHEET NUMBER: **85 OF 112**

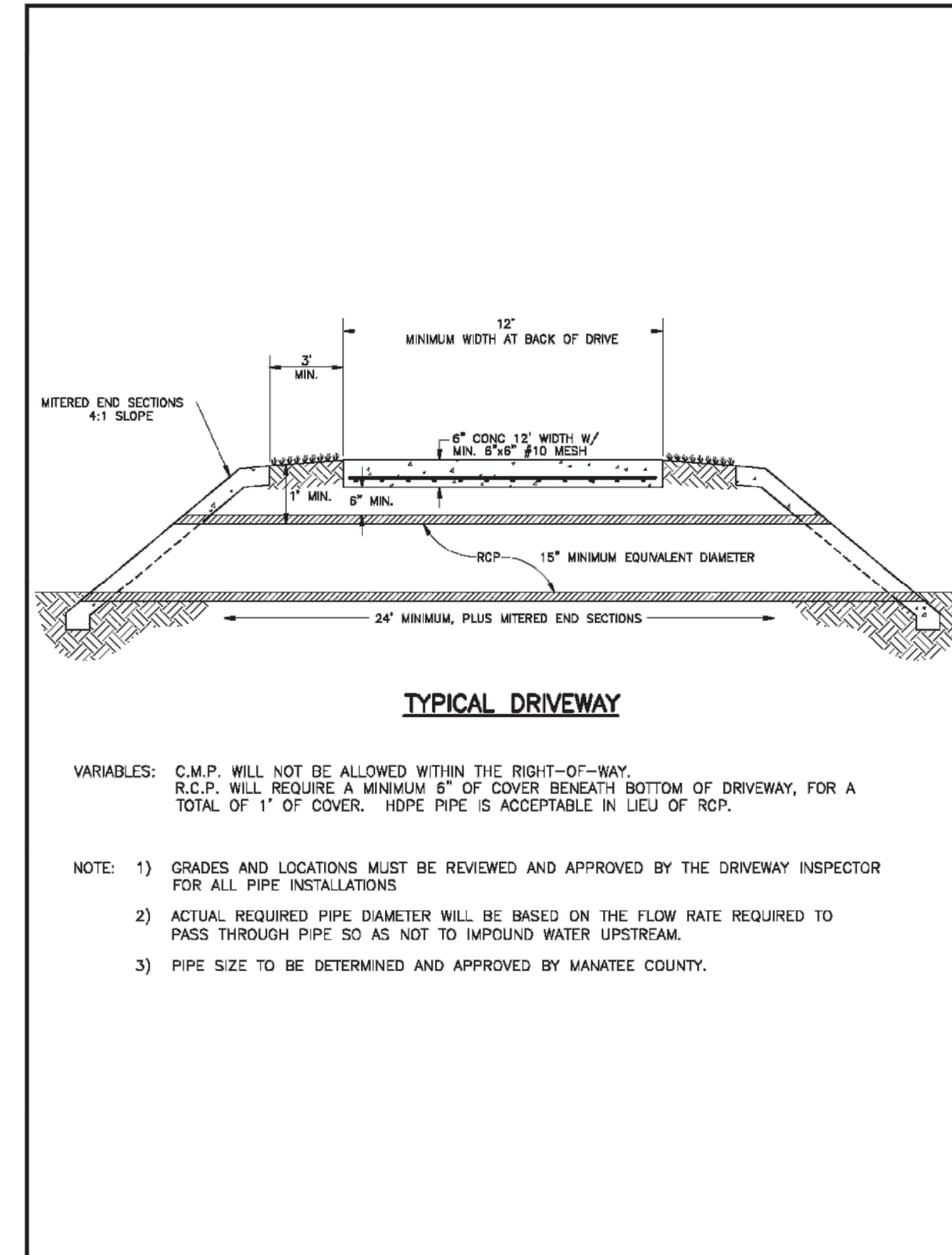
ROBERT A. ENGEL, P.E.
FLORIDA LICENSE NO. 58662
INDEX NUMBER: **21565900-01C-501PD**
SHEET NUMBER: **85 OF 112**



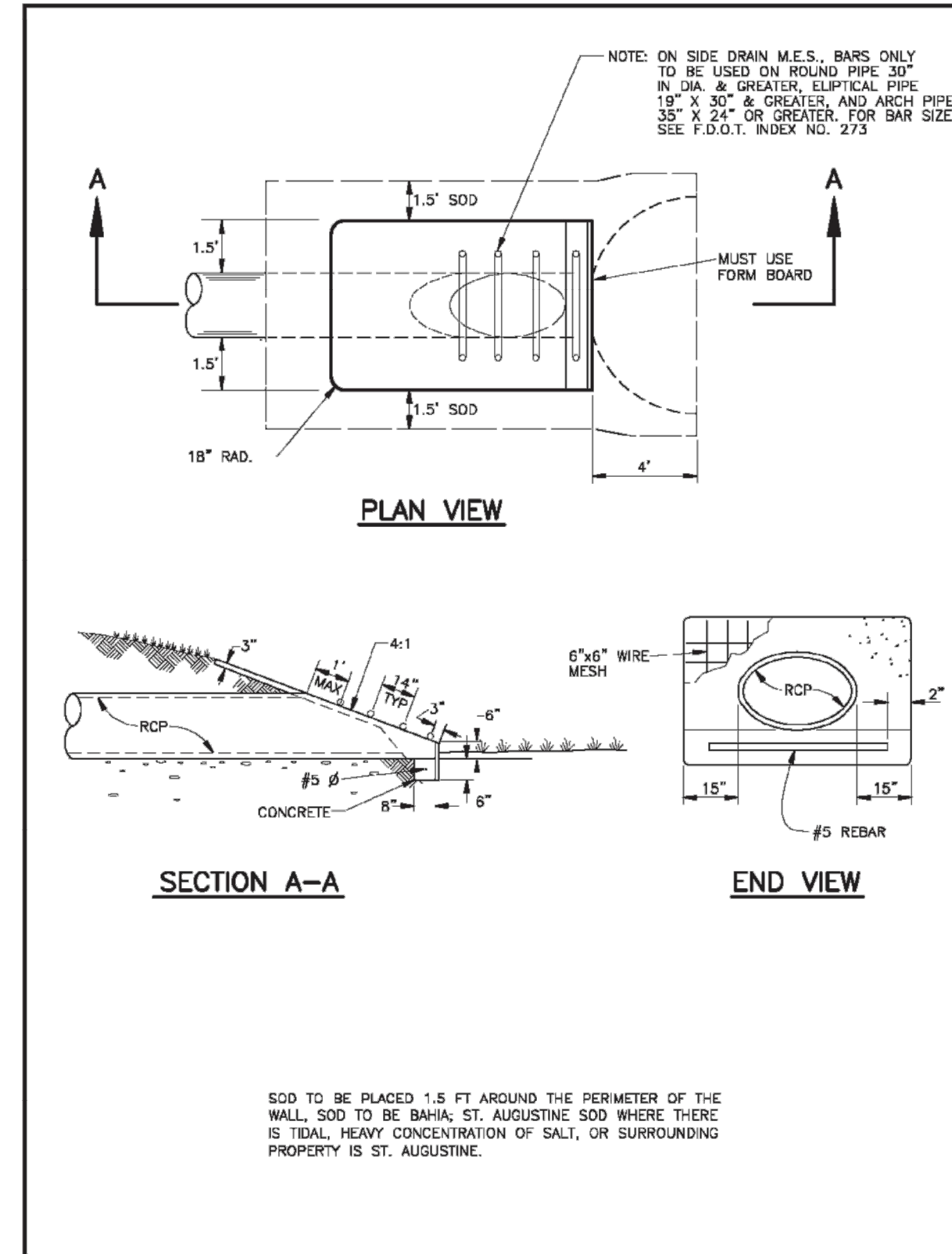
MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPICAL UNDERDRAIN LAYOUT	204.1
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



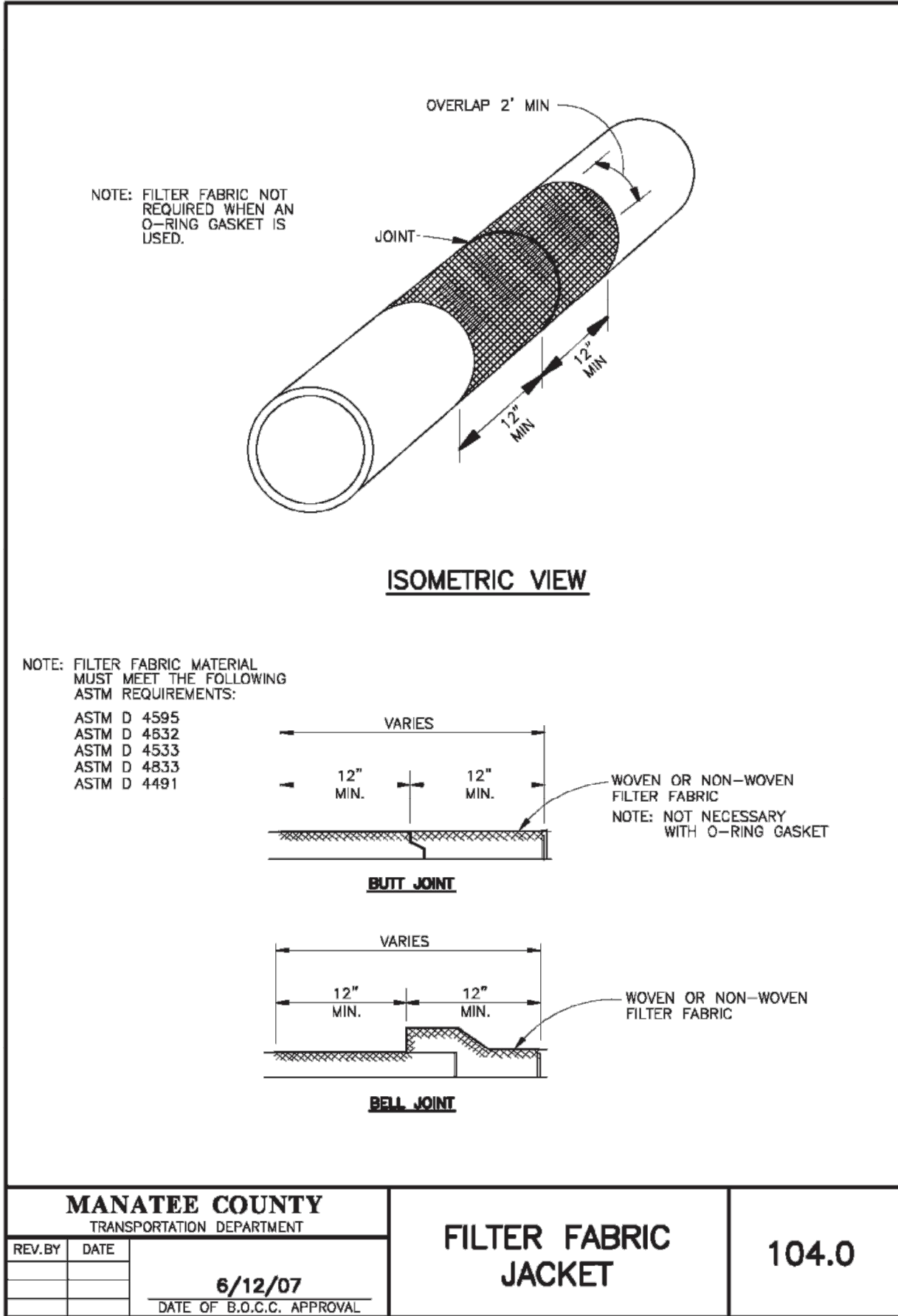
MANATEE COUNTY TRANSPORTATION DEPARTMENT		UNDERDRAIN CLEAN-OUTS (FLEXIBLE & RIGID)	204.2
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



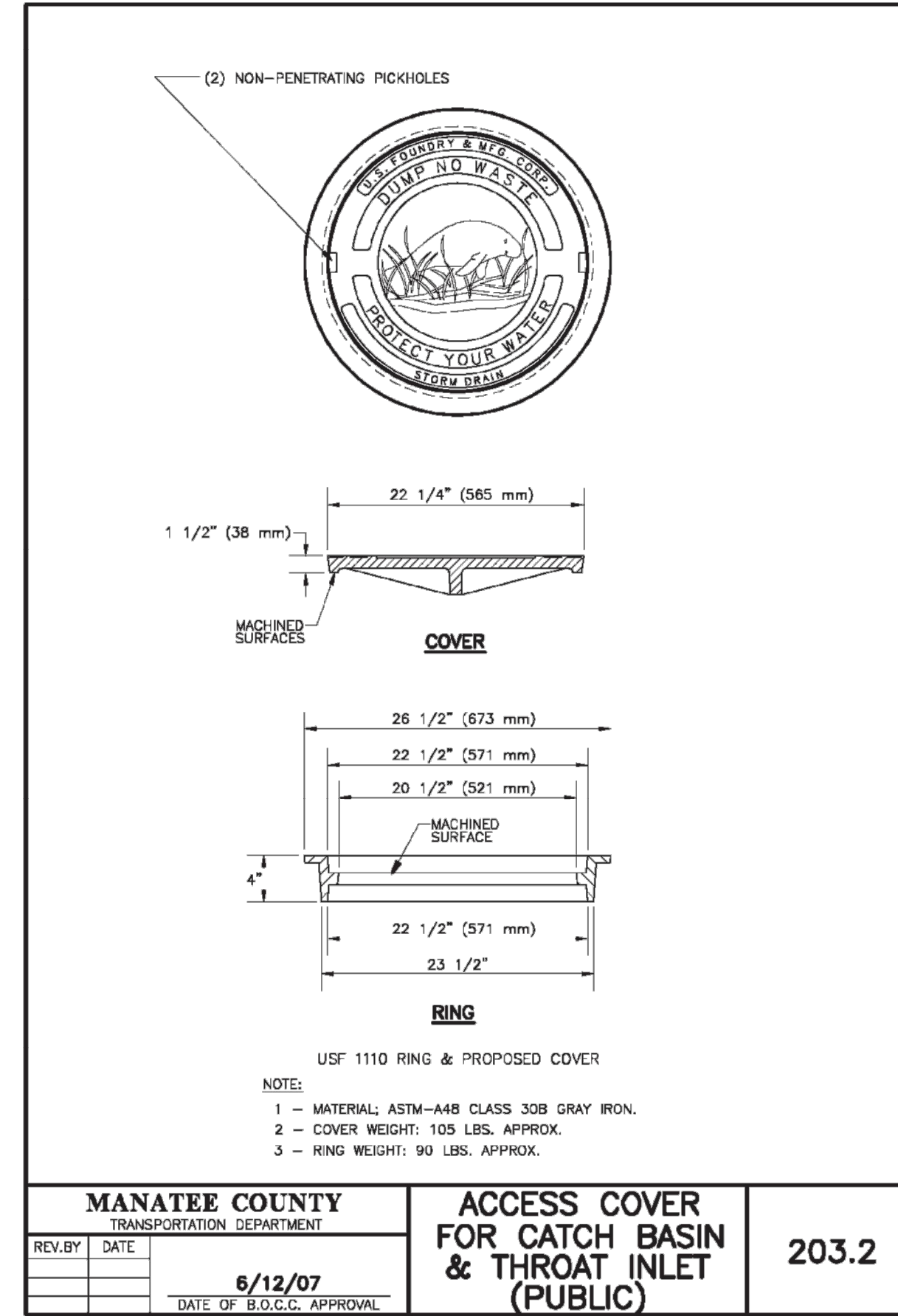
MANATEE COUNTY TRANSPORTATION DEPARTMENT		TYPICAL DRIVEWAY PIPE CROSS SECTION	102.0
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



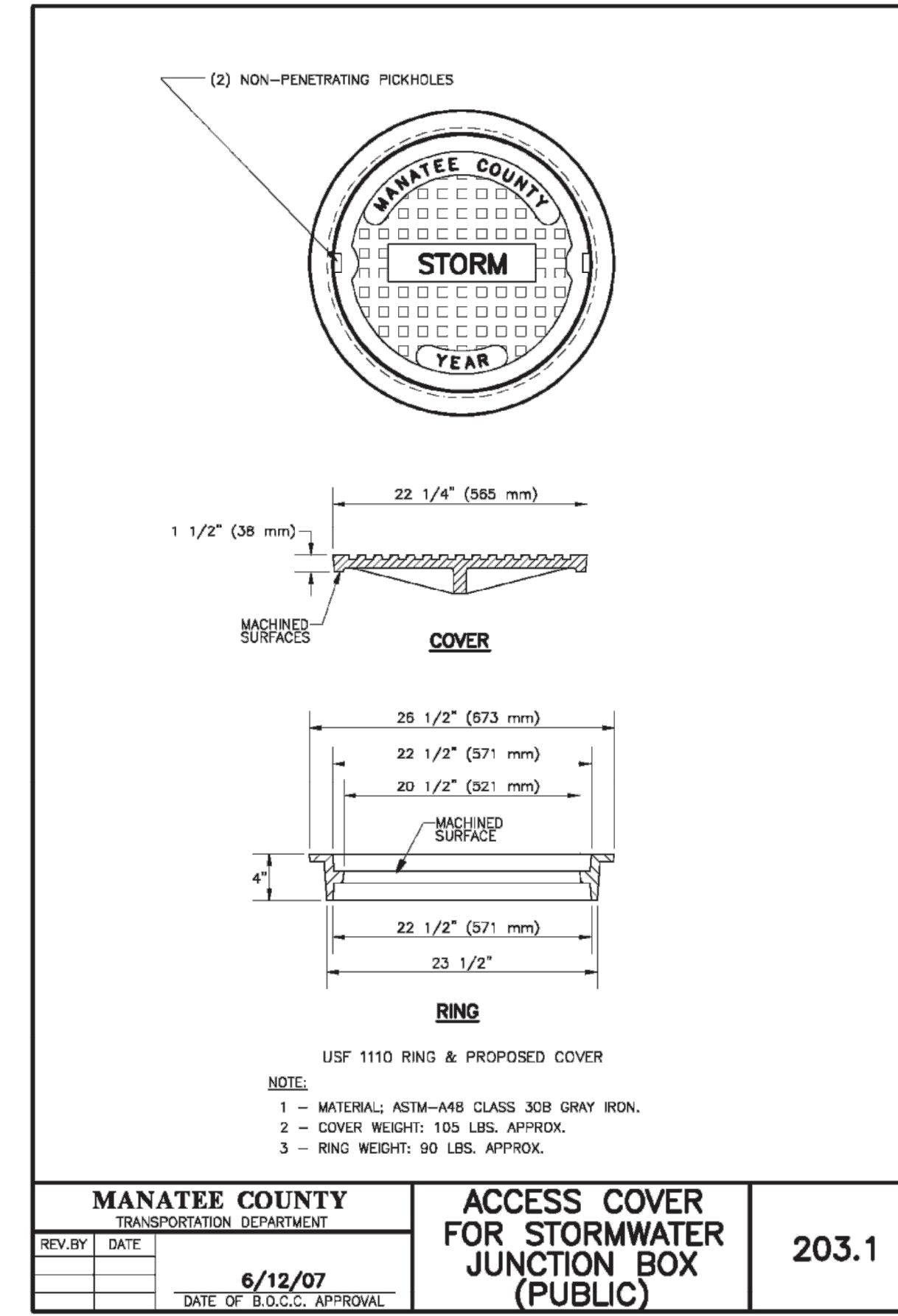
MANATEE COUNTY TRANSPORTATION DEPARTMENT		DRIVEWAY AND ROAD PIPE MITERED END SECTION	103.0
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



MANATEE COUNTY TRANSPORTATION DEPARTMENT		FILTER FABRIC JACKET	104.0
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



MANATEE COUNTY TRANSPORTATION DEPARTMENT		ACCESS COVER FOR CATCH BASIN & THROAT INLET (PUBLIC)	203.2
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



MANATEE COUNTY TRANSPORTATION DEPARTMENT		ACCESS COVER FOR STORMWATER JUNCTION BOX (PUBLIC)	203.1
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	

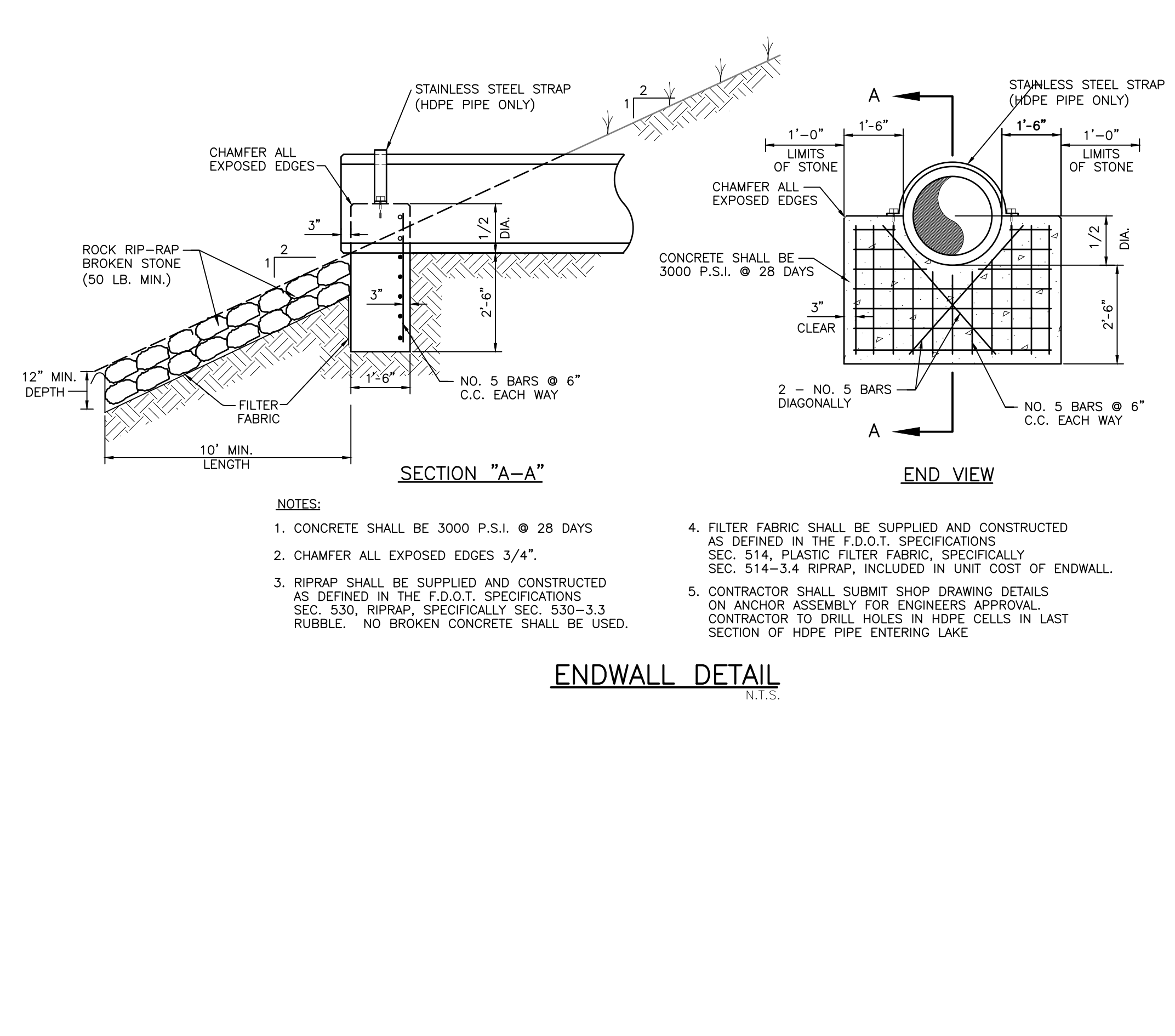
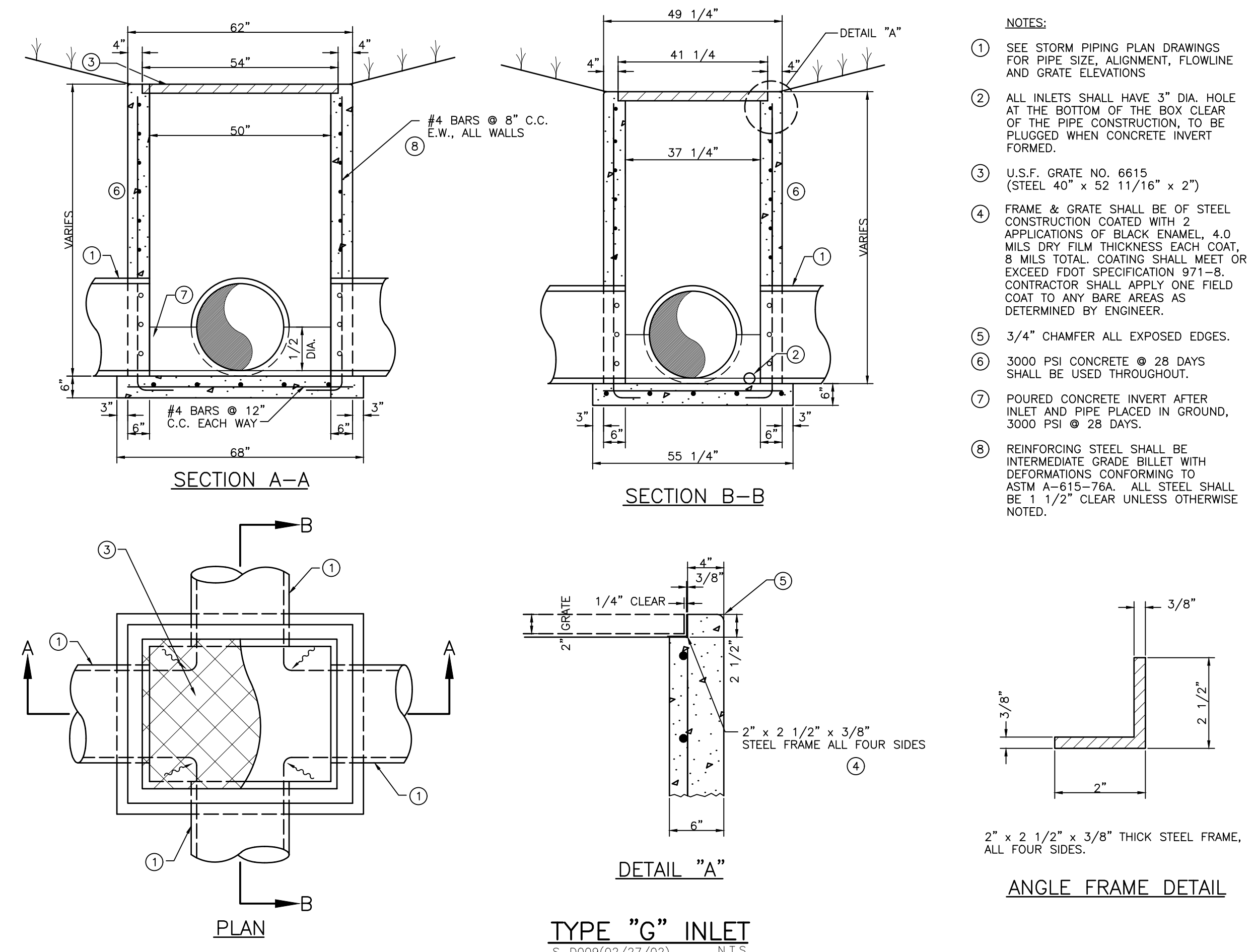
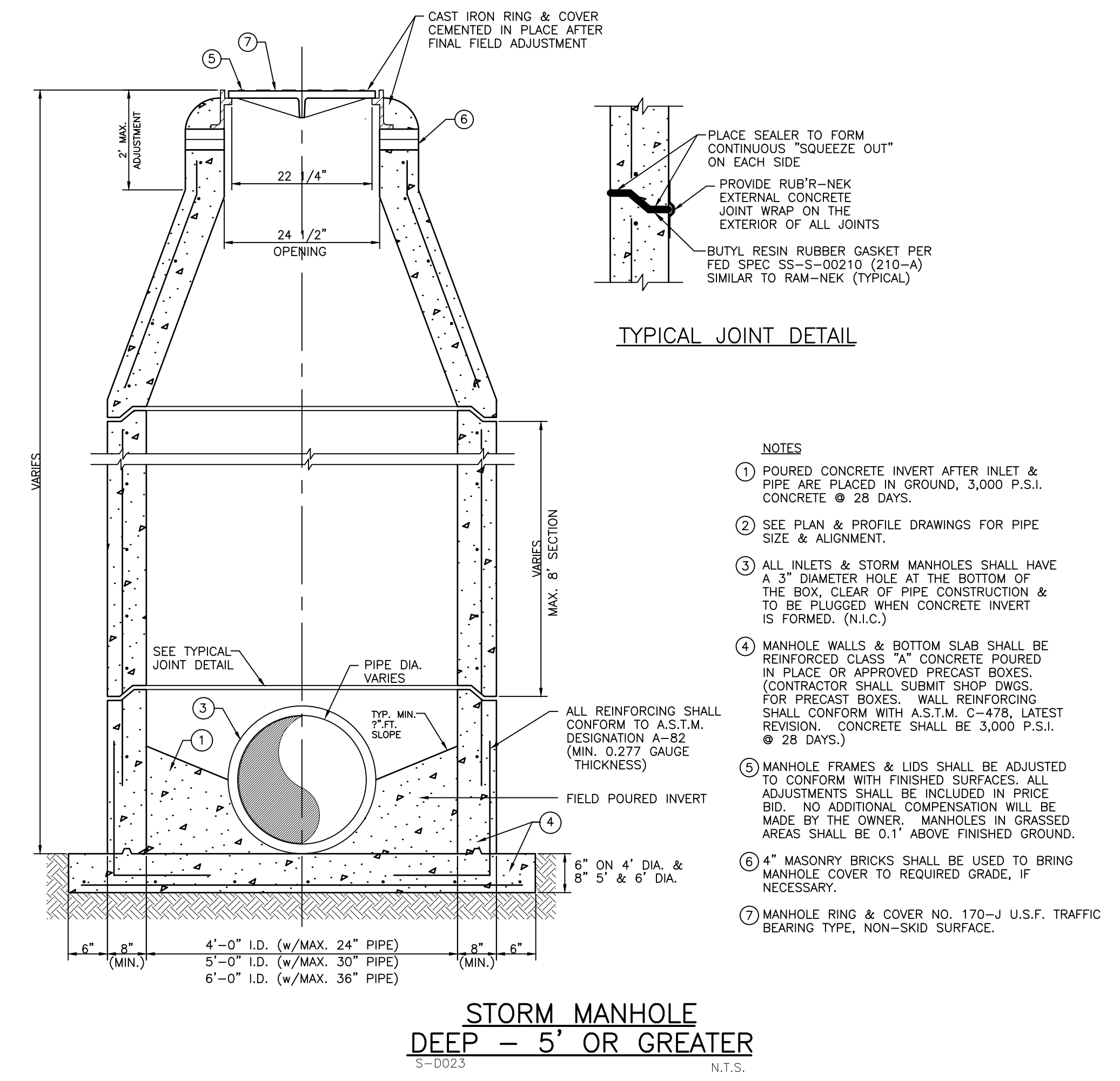
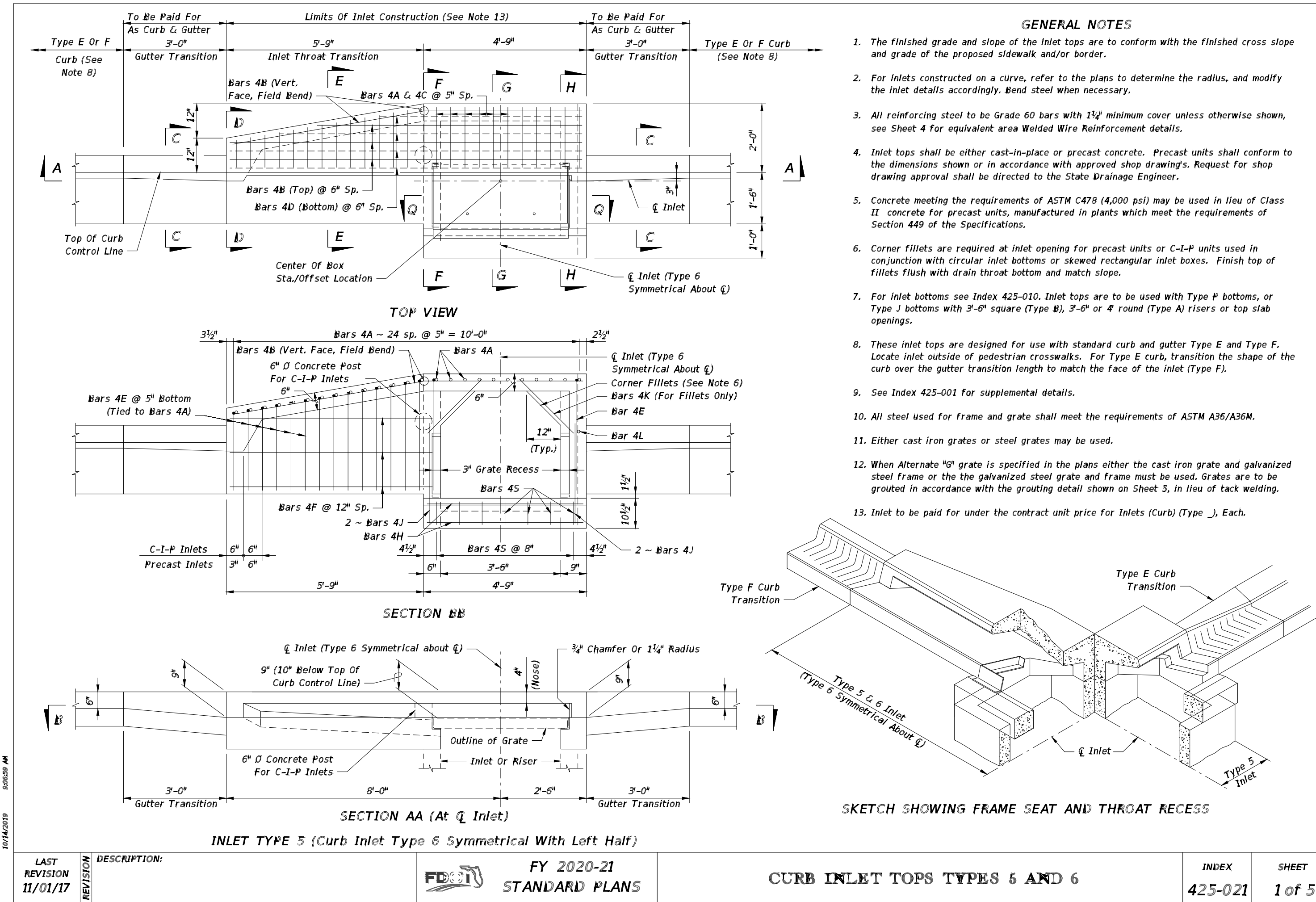
ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



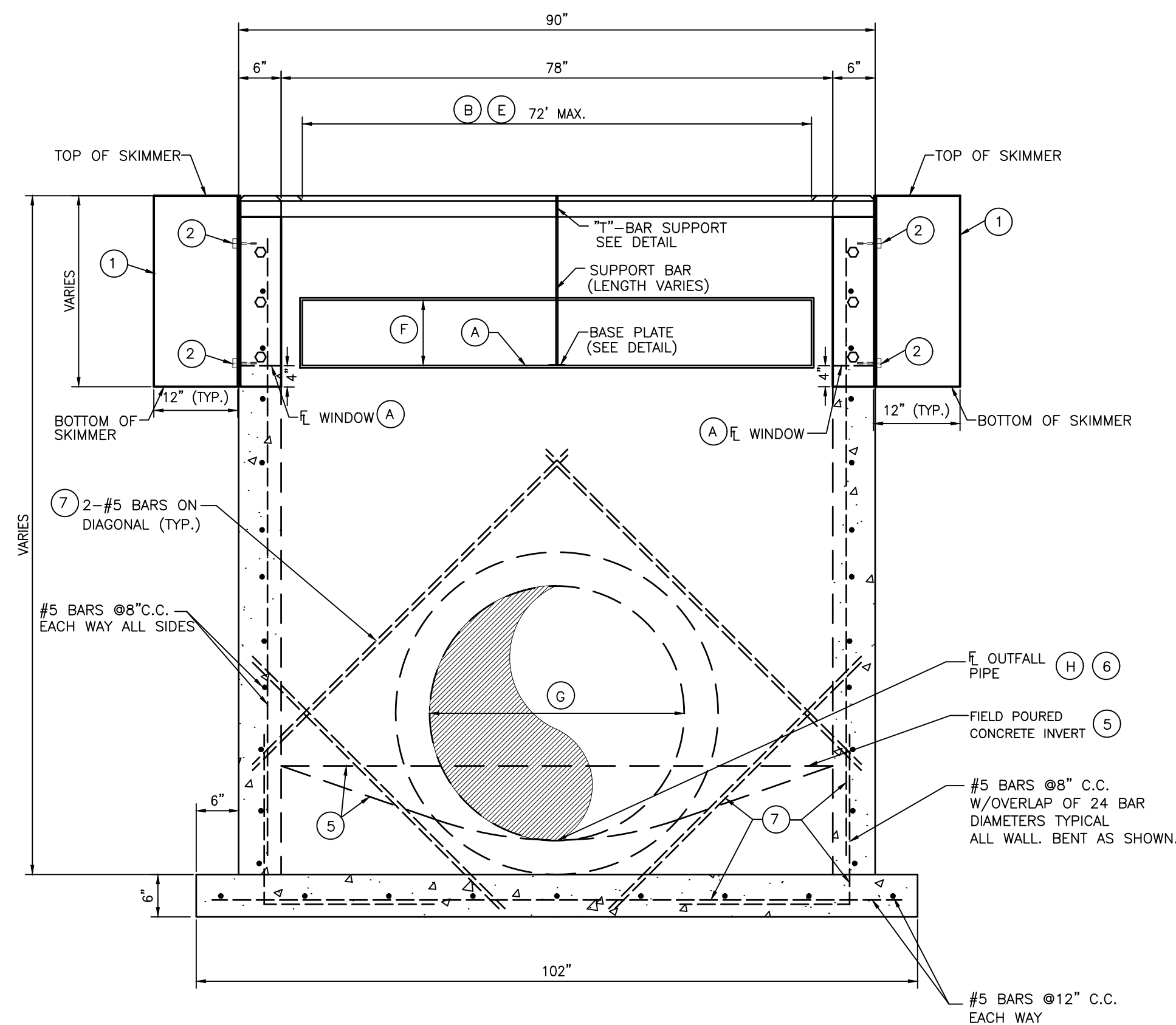
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CLIENT: MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
PROJECT: MOCCASIN WALLOW ROAD
SEGMENT 1

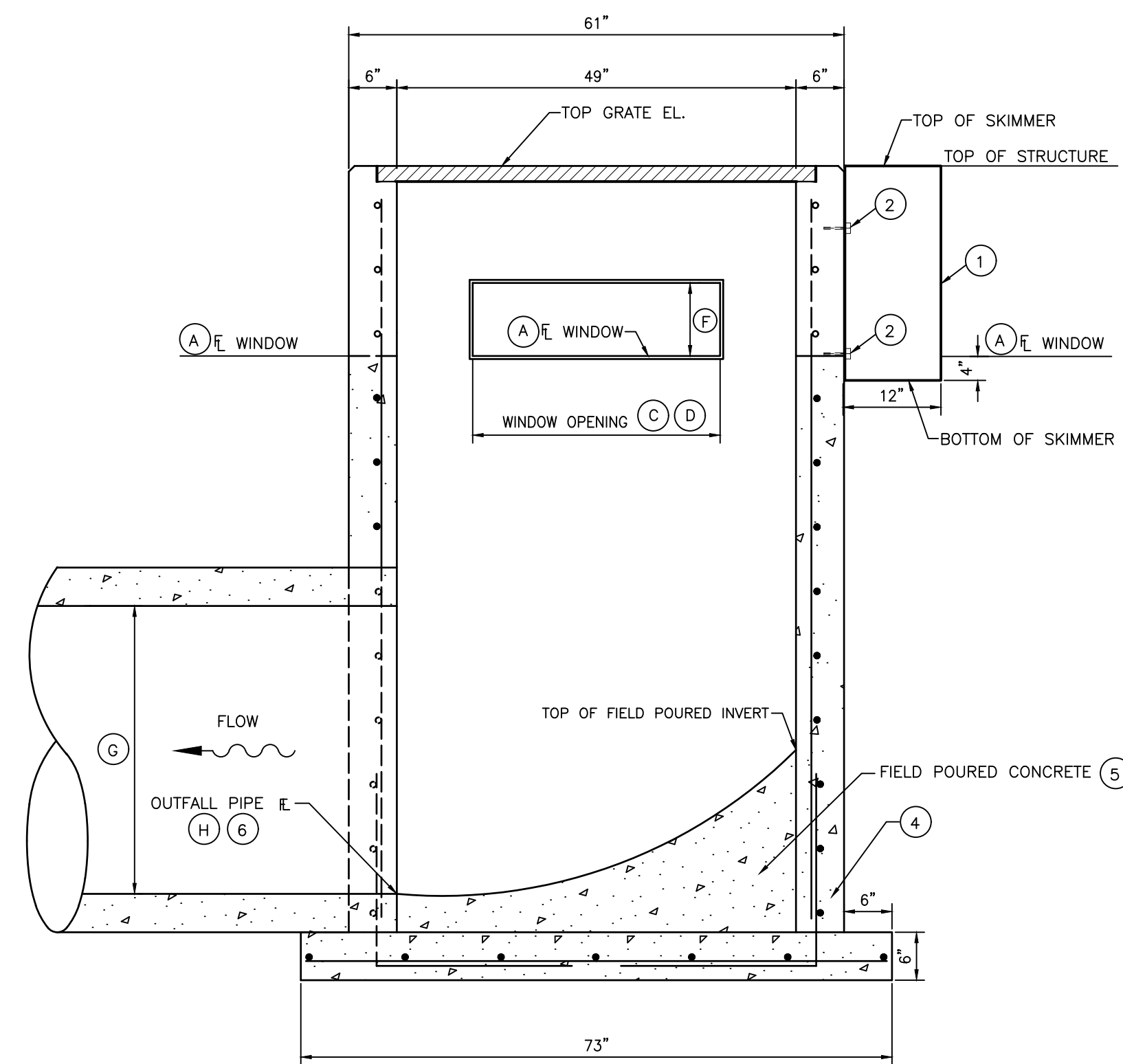
DATE: 10/2020
HORIZONTAL SCALE:
VERTICAL SCALE:
SHEET NUMBER: 86 OF 112
PROJECT NUMBER: 21565900-01C-511DD



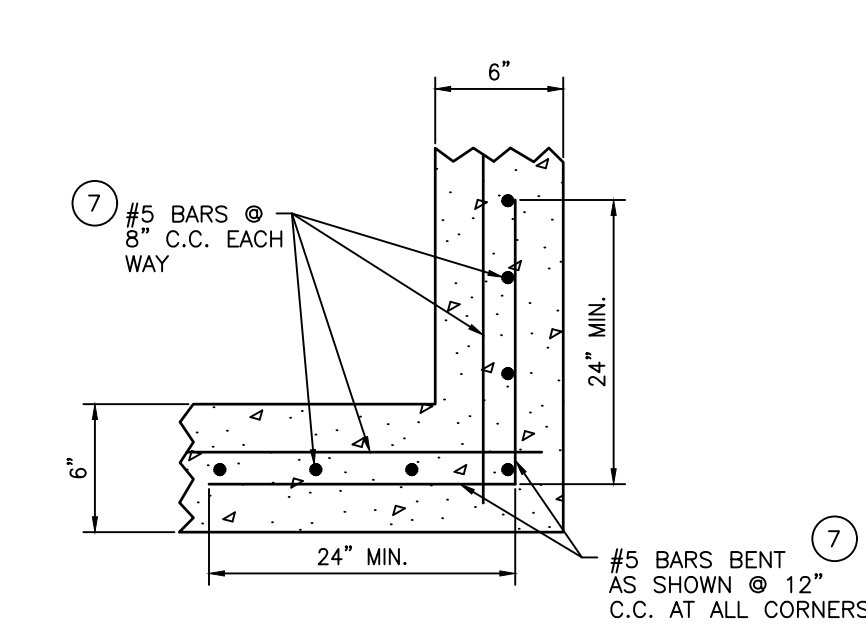
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ACTIVITY	INITIALS/EMP. NO.	DATE																				
DESIGNED BY:		10/2020																				
DRAWN BY:		10/2020																				
CHECKED BY:																						
CONTRACT ADMIN. BY:																						
WM APPROVED BY:																						



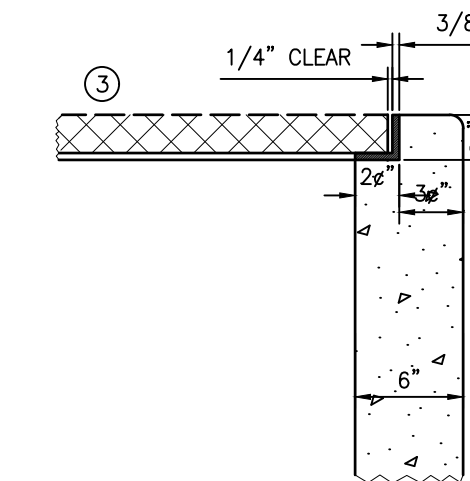
SECTION A-A



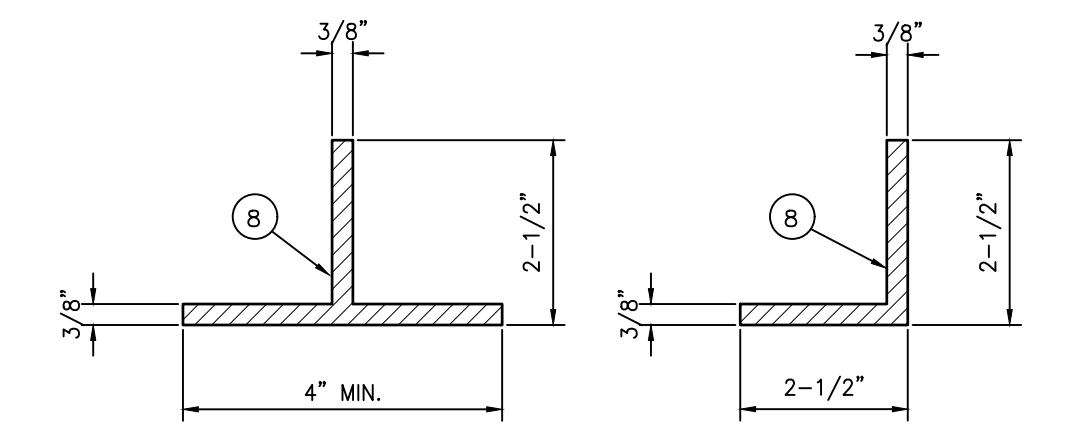
SECTION B-B



WALL CORNER REINFORCEMENT DETAIL

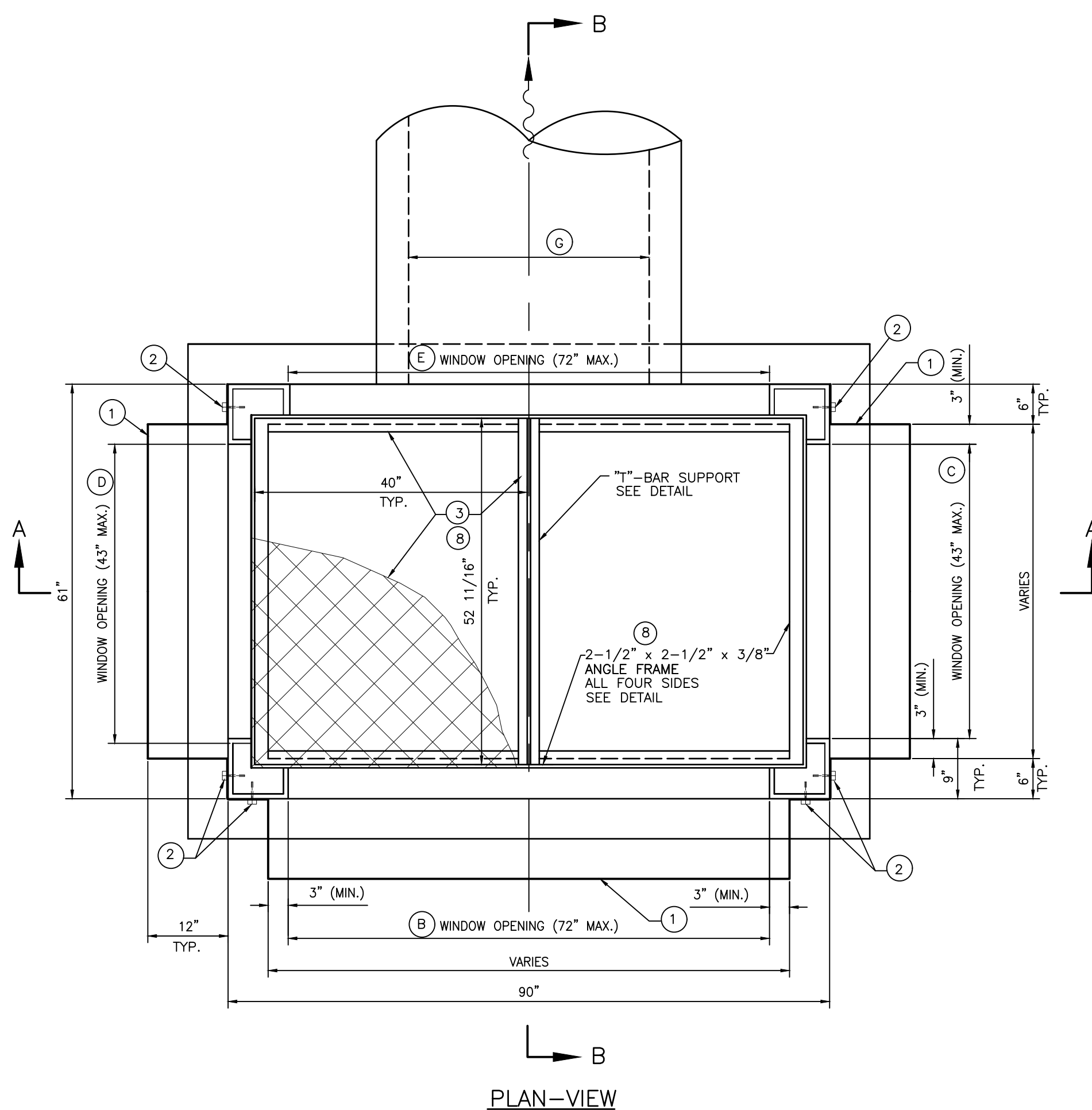


GRATE SUPPORT DETAIL



T-BAR SUPPORT DETAIL ANGLE FRAME DETAIL

- NOTES:
- 3/16" THICK STAINLESS STEEL, 1/4" THICK ALUMINUM OR 3/16" "GLASKIMER" HSS-HIGH STRENGTH COMPOSITE SHEET SKIMMER PLATE WITH OPEN TOP AND BOTTOM. SKIMMER TO EXTEND 4" BELOW NOTCH ELEVATION.
 - 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS, 3" LONG MINIMUM WITH STAINLESS STEEL WASHERS AND NUTS. IF HEIGHT OF SKIMMER IS 12" OR LESS, 2 EACH SIDE REQUIRED. IF SKIMMER IS OVER 12" HEIGHT, SPACE BOLTS ONE FOR EACH 6" C.C. MAXIMUM SPACING EACH SIDE OF SKIMMER.
 - U.S.F. GRATE #6615 (40" x 52-11/16" x 2") (2 REQUIRED).
 - 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT, UNLESS DESIGNATED OTHERWISE.
 - FIELD POURED CONCRETE INVERT AFTER INLET AND PIPE ARE PLACED IN GROUND, 3000 PSI CONCRETE @ 28 DAYS.
 - SEE STORMWATER PLAN TO VERIFY PIPE SIZE AND ALIGNMENT.
 - REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO A.S.T.M. A-615-76A. ALL STEEL SHALL BE 2" CLEAR (MINIMUM) UNLESS OTHERWISE NOTED.
 - FRAME & GRATE SHALL BE OF STEEL CONSTRUCTION COATED WITH 2 APPLICATIONS OF BLACK ENAMEL, 4.0 MILS DRY FILM THICKNESS EACH COAT, 8 MILS TOTAL. COATING SHALL MEET OR EXCEED FDOT SPECIFICATION 971-8. CONTRACTOR SHALL APPLY ONE FIELD COAT TO ANY BARE AREAS AS DETERMINED BY ENGINEER.
 - BENCH MARK REQUIRED TO BE SET ON STRUCTURE AFTER CONSTRUCTION IS COMPLETE. ELEVATION TO BE NOTED IN RECORD DRAWINGS.
 - STAKEOUT POINT TO BE CENTER OF STRUCTURE. FIELD LOCATION TO FIT LAKE BANK OR FILL SLOPE MAY BE NECESSARY. LOCATION TO BE REVIEWED BY ENGINEER OR HIS REPRESENTATIVE.
 - PROVIDE A MINIMUM 6" CLEARANCE UNDER SKIMMER.



PLAN-VIEW

DATA TABLE

STRUCTURE NUMBER	ICPR MODEL LINK NAME	LAKE NUMBER	NORMAL WATER LEVEL	TOP GRATE EL.	FL. EL. OF NOTCH	WIDTH OF NOTCH (in.)	HEIGHT OF NOTCH (in.)	A FL EL. WINDOW	B WIDTH OF WINDOW (in.)	C WIDTH OF WINDOW (in.)	D WIDTH OF WINDOW (in.)	E WIDTH OF WINDOW (in.)	F HEIGHT OF WINDOW (in.)	G DIAMETER OF OUTFALL PIPE (in.)	H PIPE FL EL.	SPECIAL REMARKS
STR #CS-1A	RD7800C	N/A	N/A	39.60	N/A	N/A	N/A	35.70	52.00	N/A	43.00	N/A	12.00	42	34.65	NO SKIMMER REQUIRED
STR #CS-1C	DS_MW-1	N/A	N/A	28.04	N/A	N/A	N/A	23.43	72.00	10.00	43.00	N/A	12.00	24 x 38	20.62	NO SKIMMER REQUIRED
STR #CS-1D	DS_MW-2	N/A	N/A	29.00	N/A	N/A	N/A	24.30	4.00	3.00	43.00	N/A	18.00	30	21.55	NO SKIMMER REQUIRED
STR #CS-1B	RD_NRR-L1	Lake 1	36	39.63	N/A	N/A	N/A	36.00	17.00	N/A	43.00	N/A	29.00	42	31.62	NO SKIMMER REQUIRED

DOUBLE GRATE OUTFALL CONTROL STRUCTURE DETAIL (LOW LYING SLOT)

N.T.S.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
C	REVISED DATA TABLE	11/5/21	MSC/98616		

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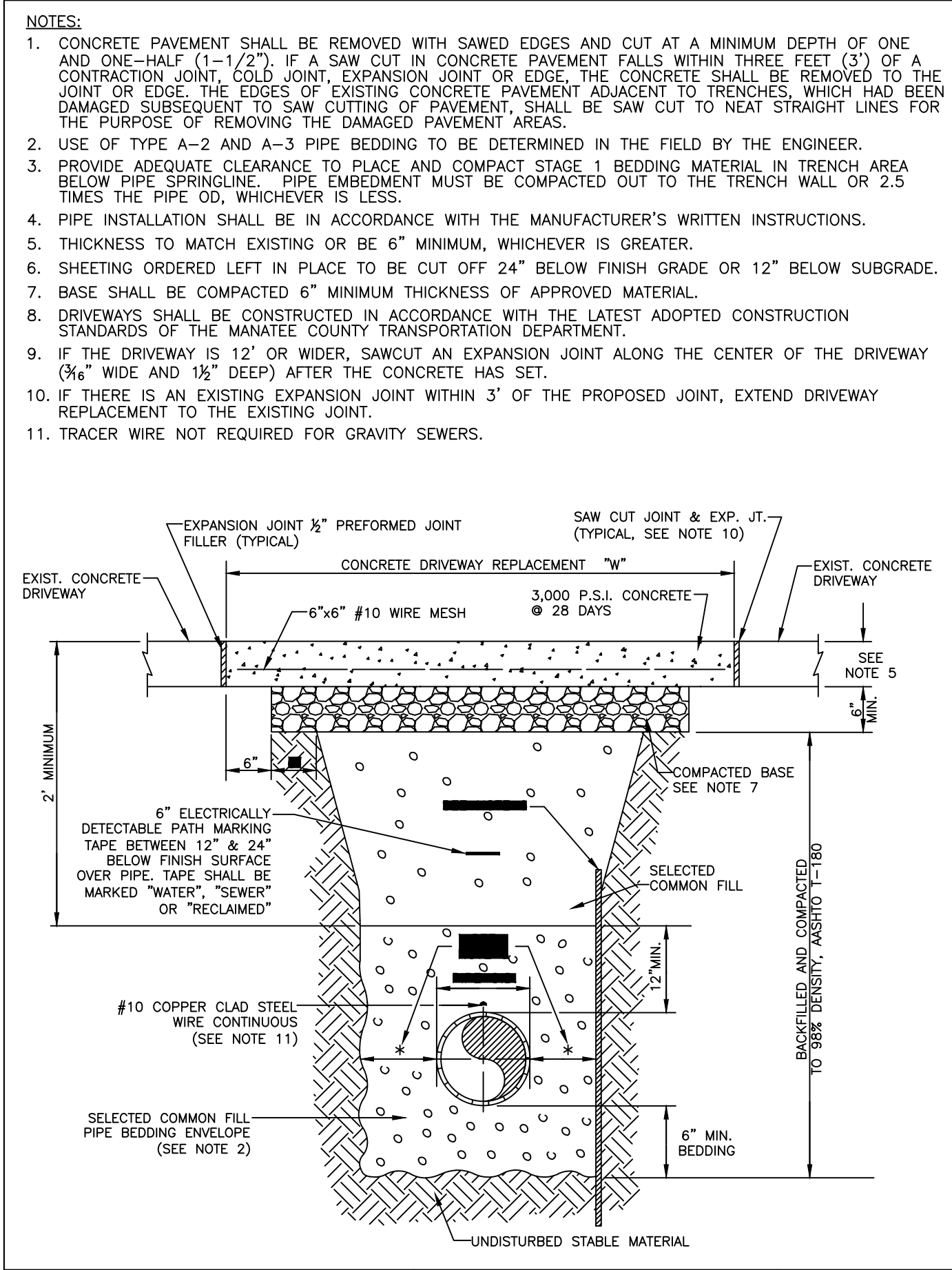
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 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

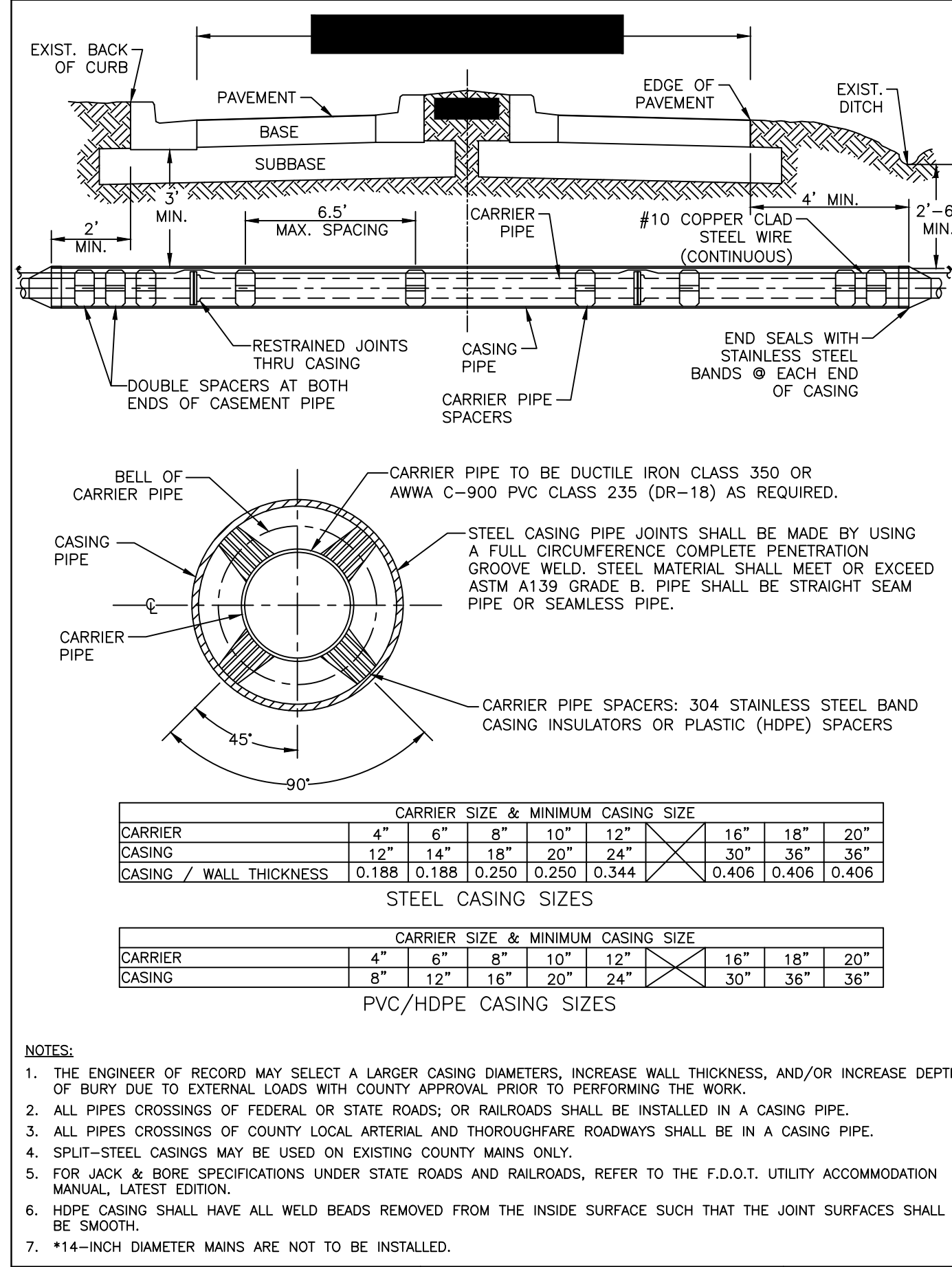
DATE: 10/2020
 HORIZONTAL SCALE:
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 SHEET NUMBER: 88 OF 112

TITLE: DRAINAGE DETAILS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 88 OF 112

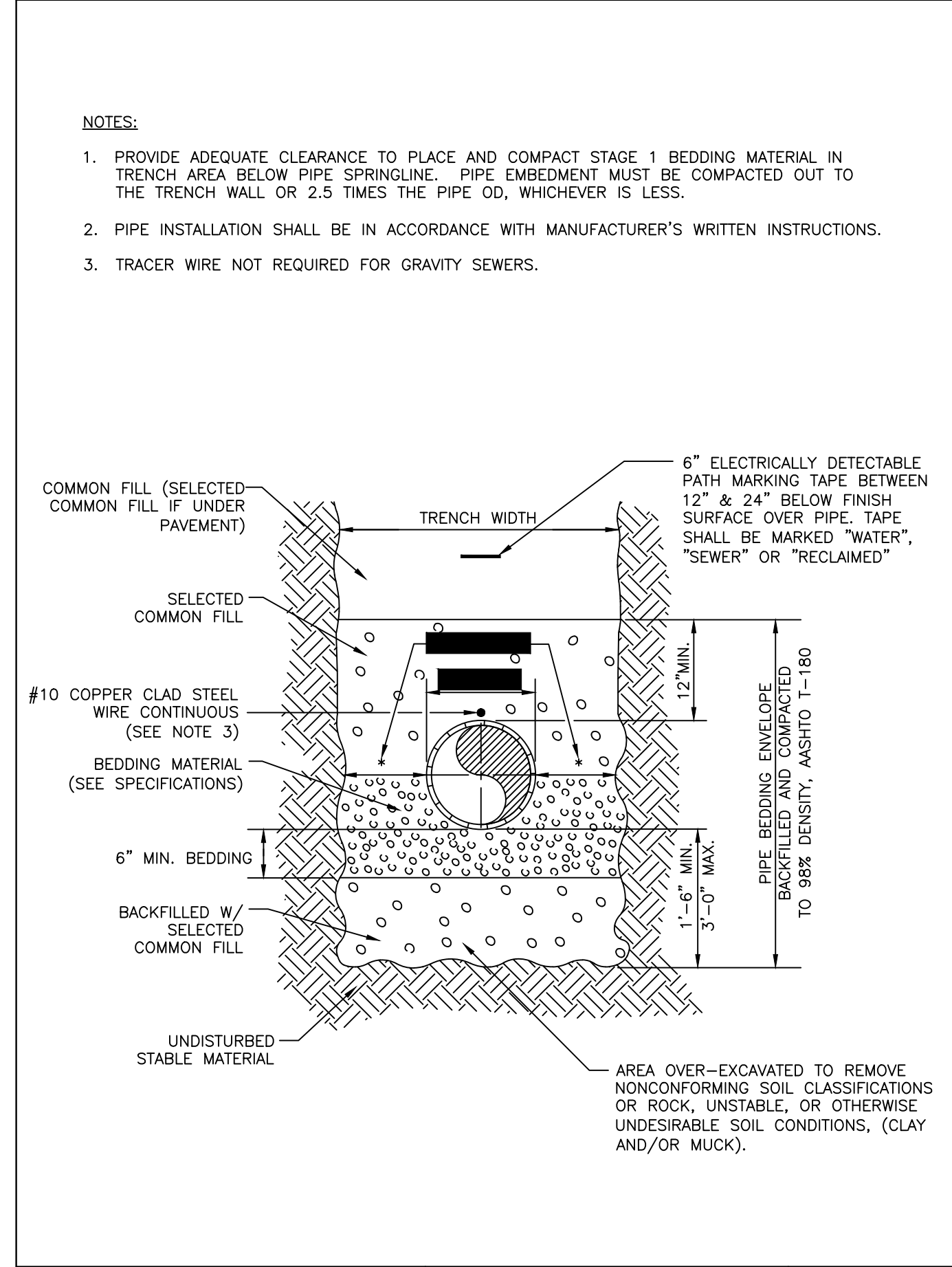
ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-511DD
 SHEET NUMBER: 88 OF 112



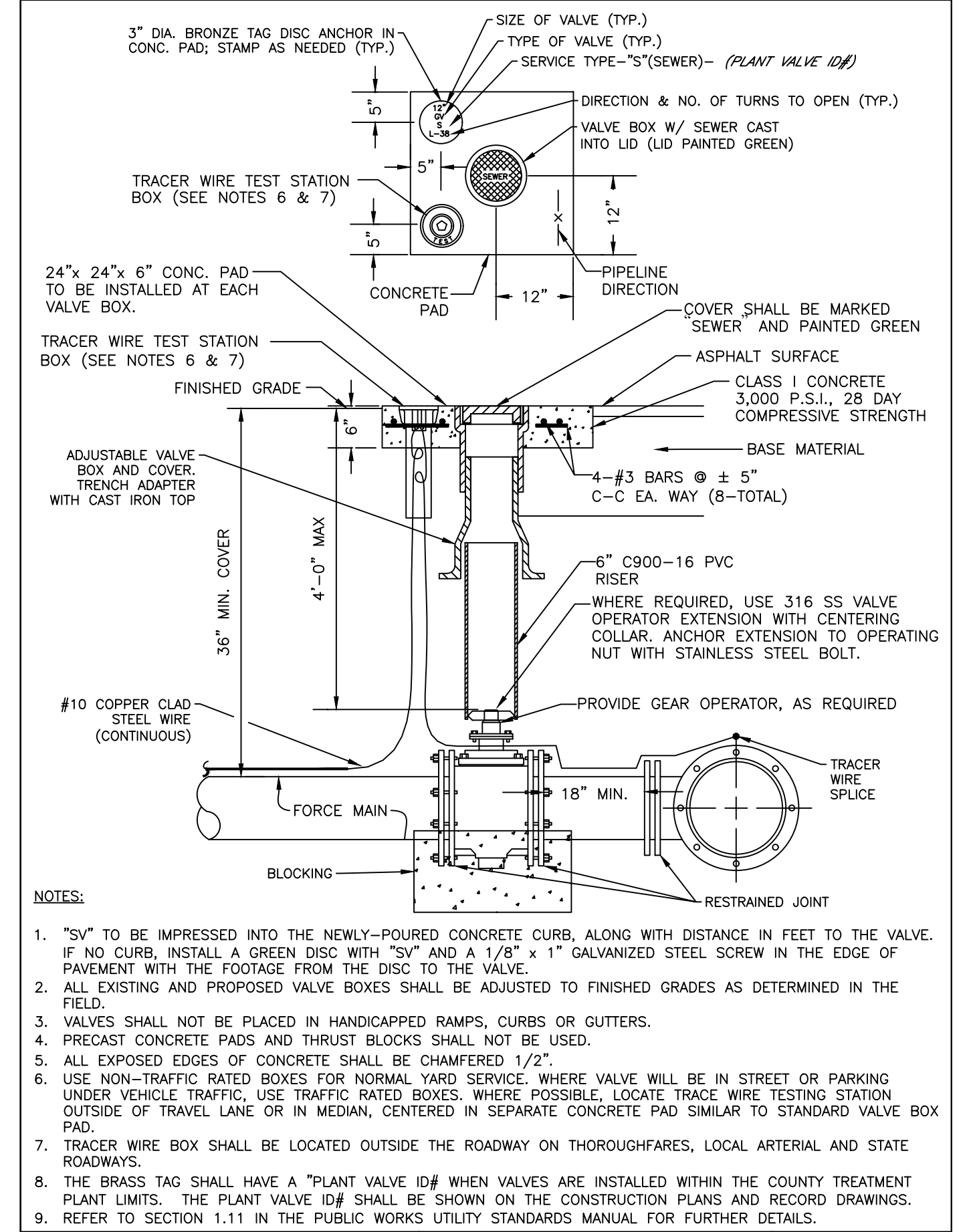
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH CONCRETE DRIVEWAY SURFACE TYPE A-1 PIPE BEDDING	UG-14
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



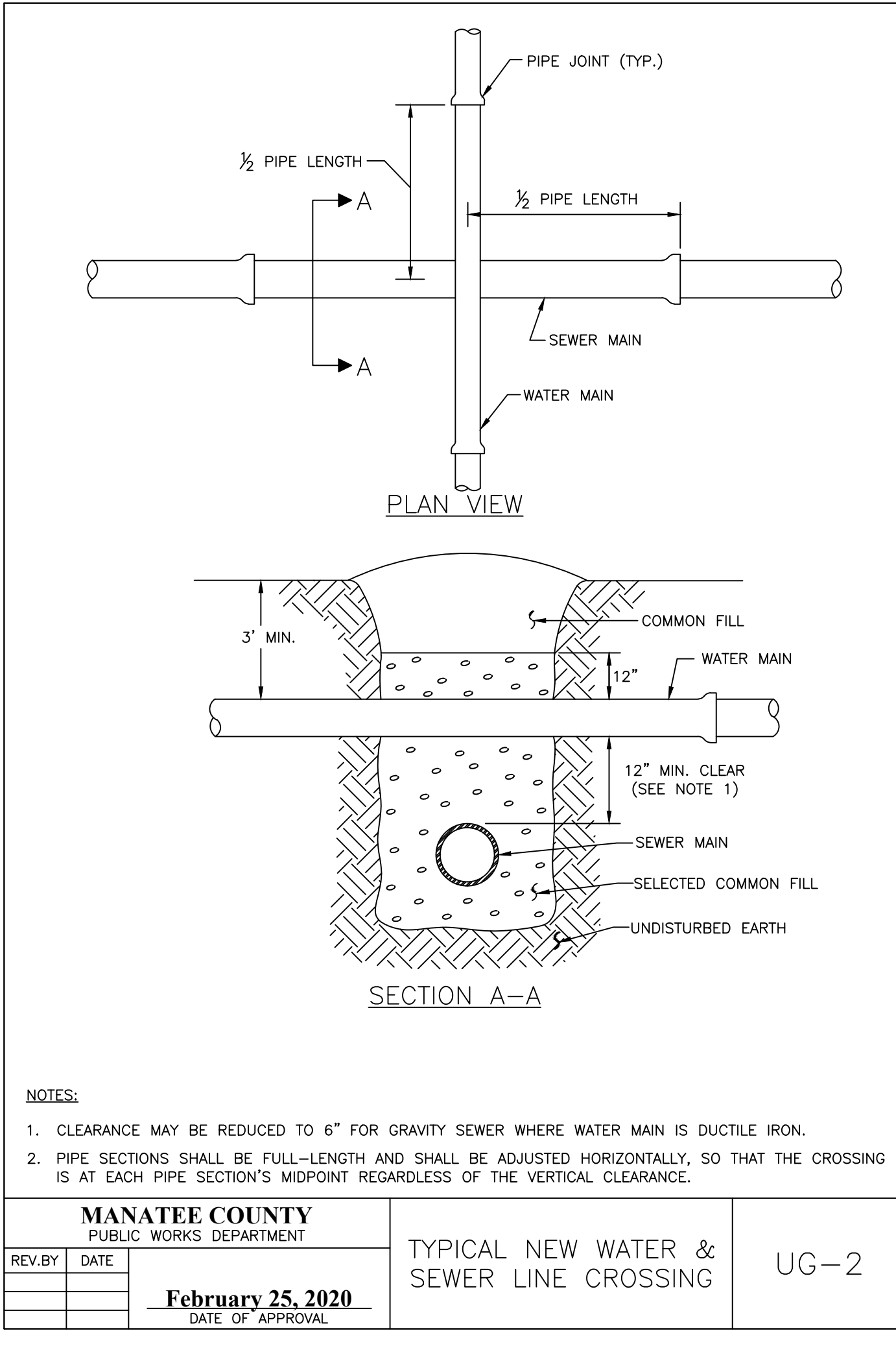
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CASING CROSSING	UG-3
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



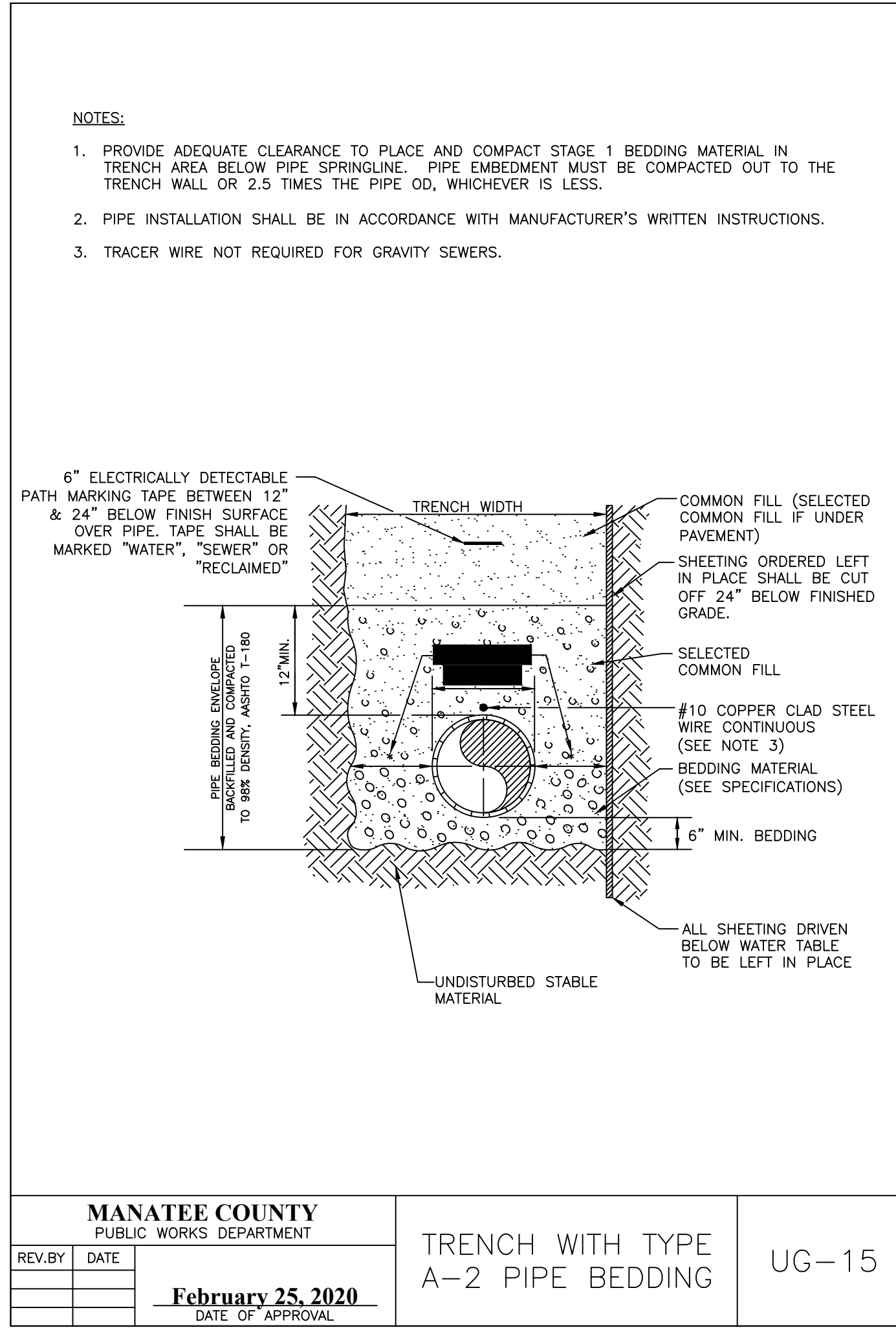
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-3 PIPE BEDDING	UG-16
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



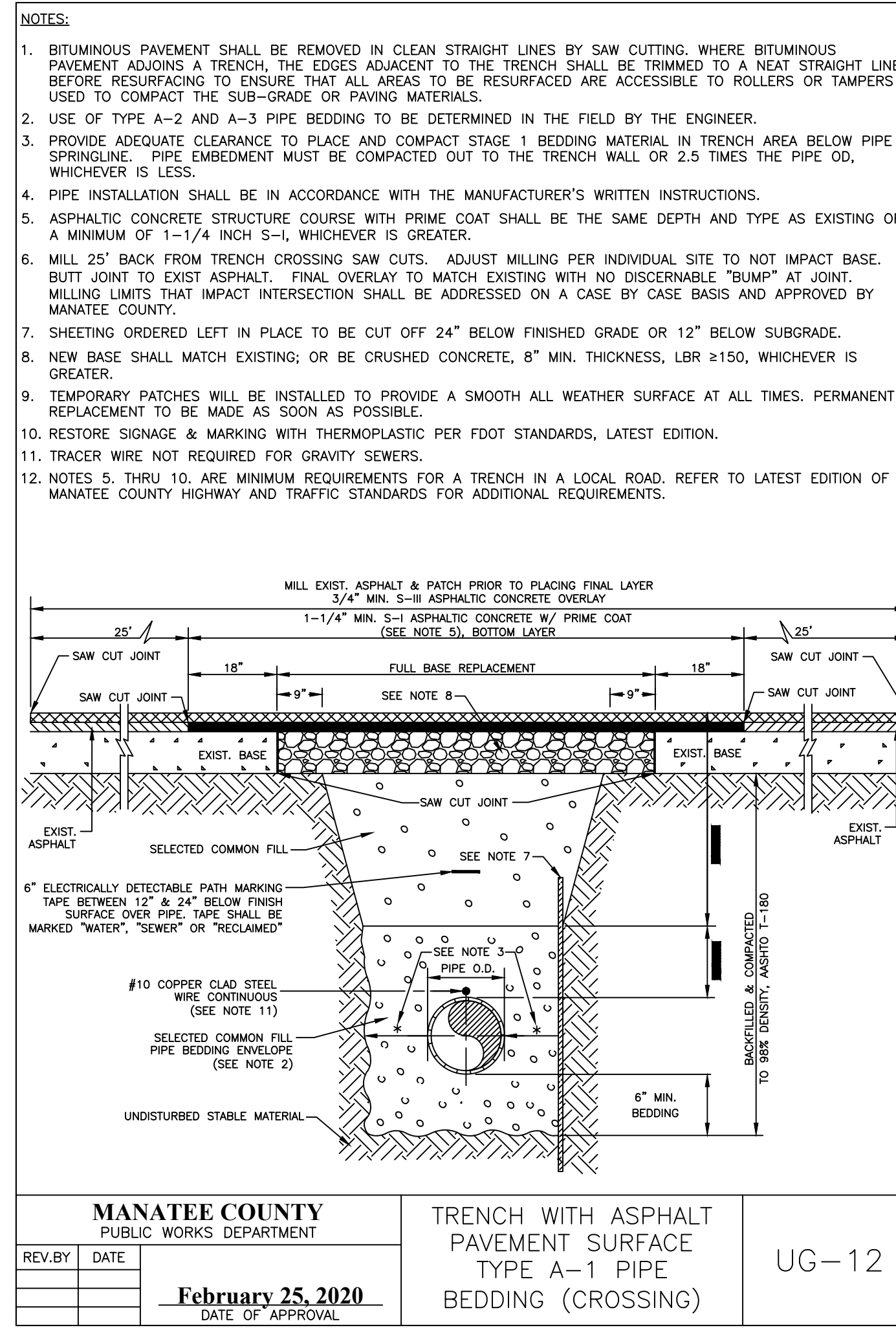
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		VALVE, BOX, COVER AND TAG	US-11
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



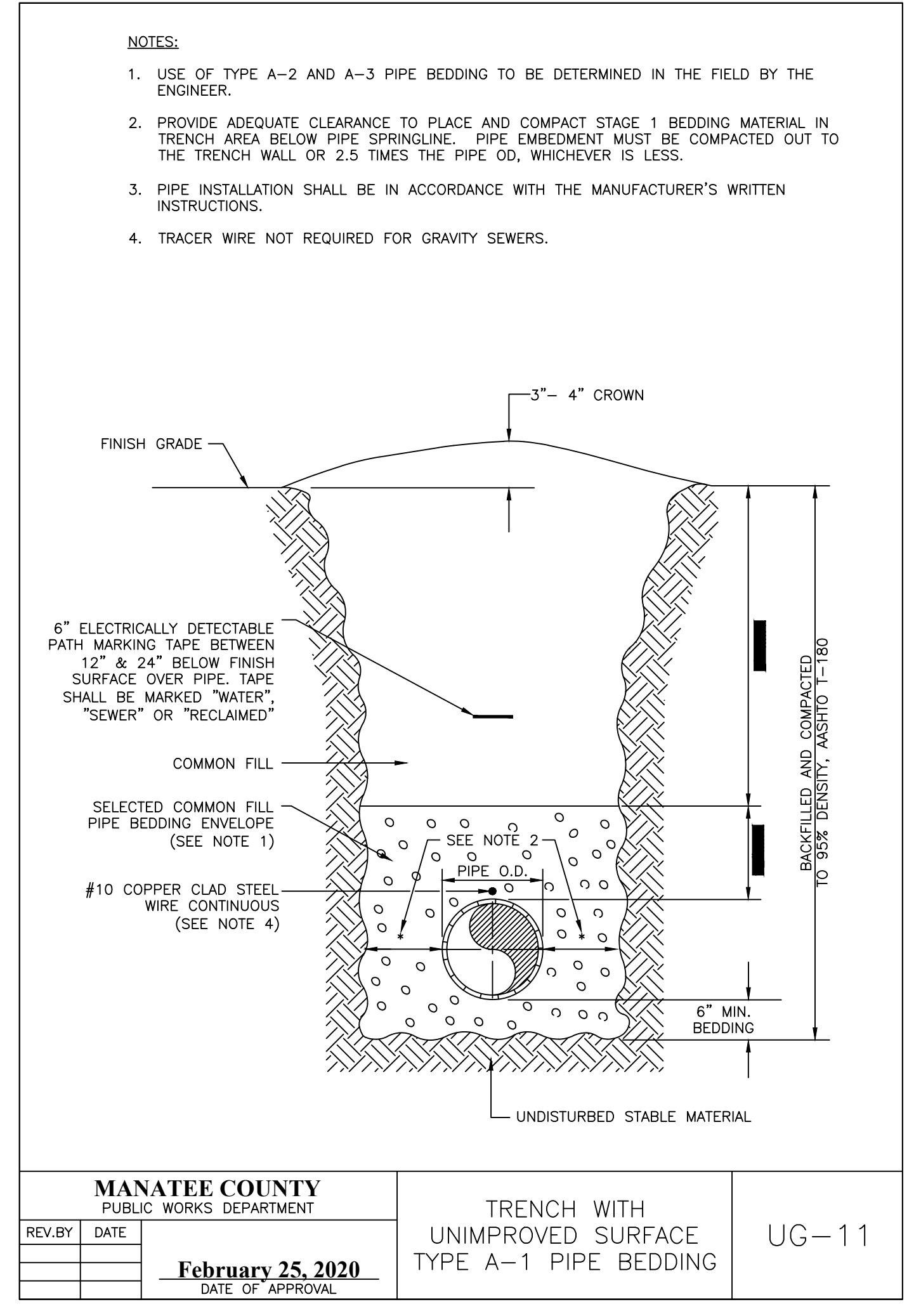
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPICAL NEW WATER & SEWER LINE CROSSING	UG-2
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



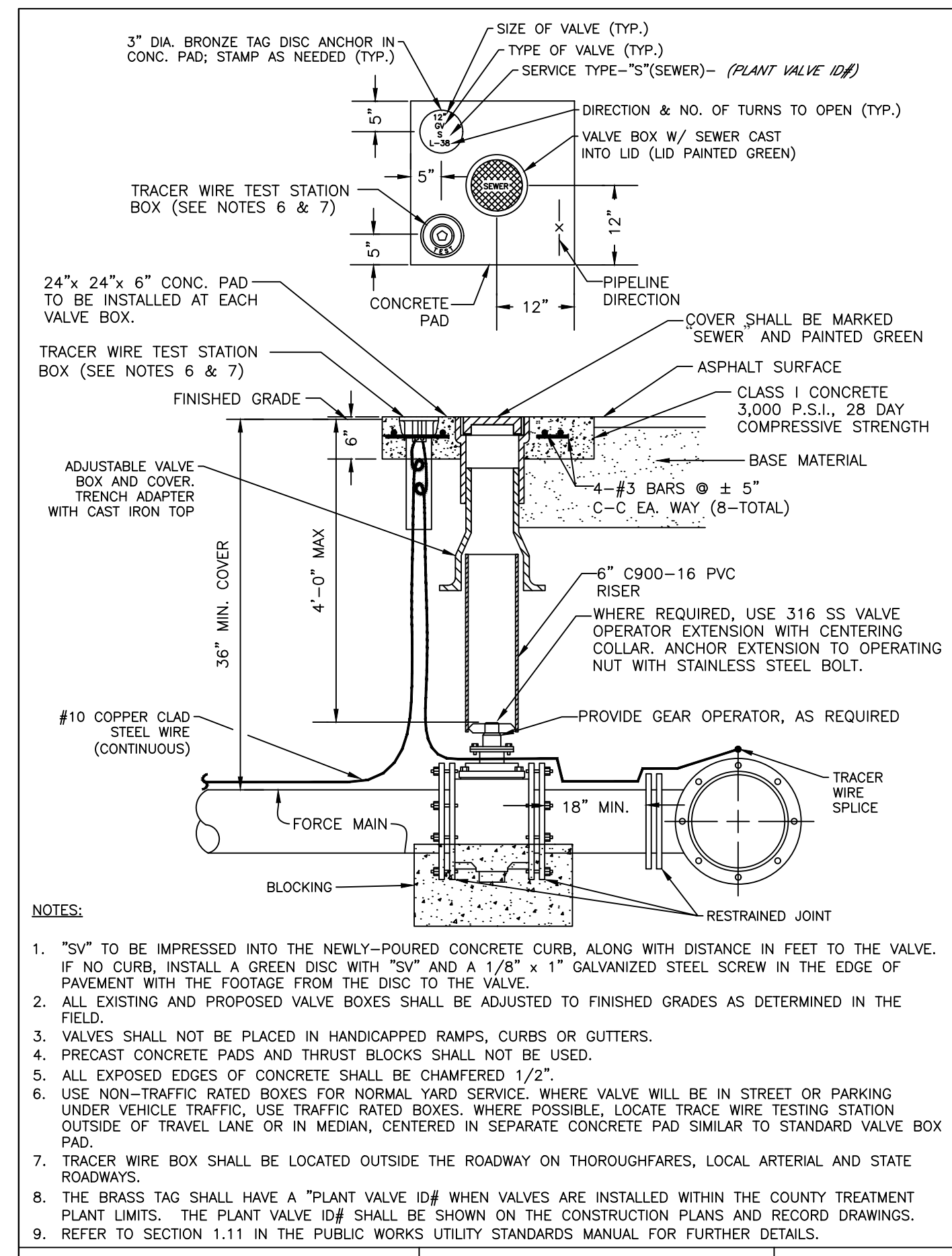
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH TYPE A-2 PIPE BEDDING	UG-15
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH ASPHALT PAVEMENT SURFACE TYPE A-1 PIPE BEDDING (CROSSING)	UG-12
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	

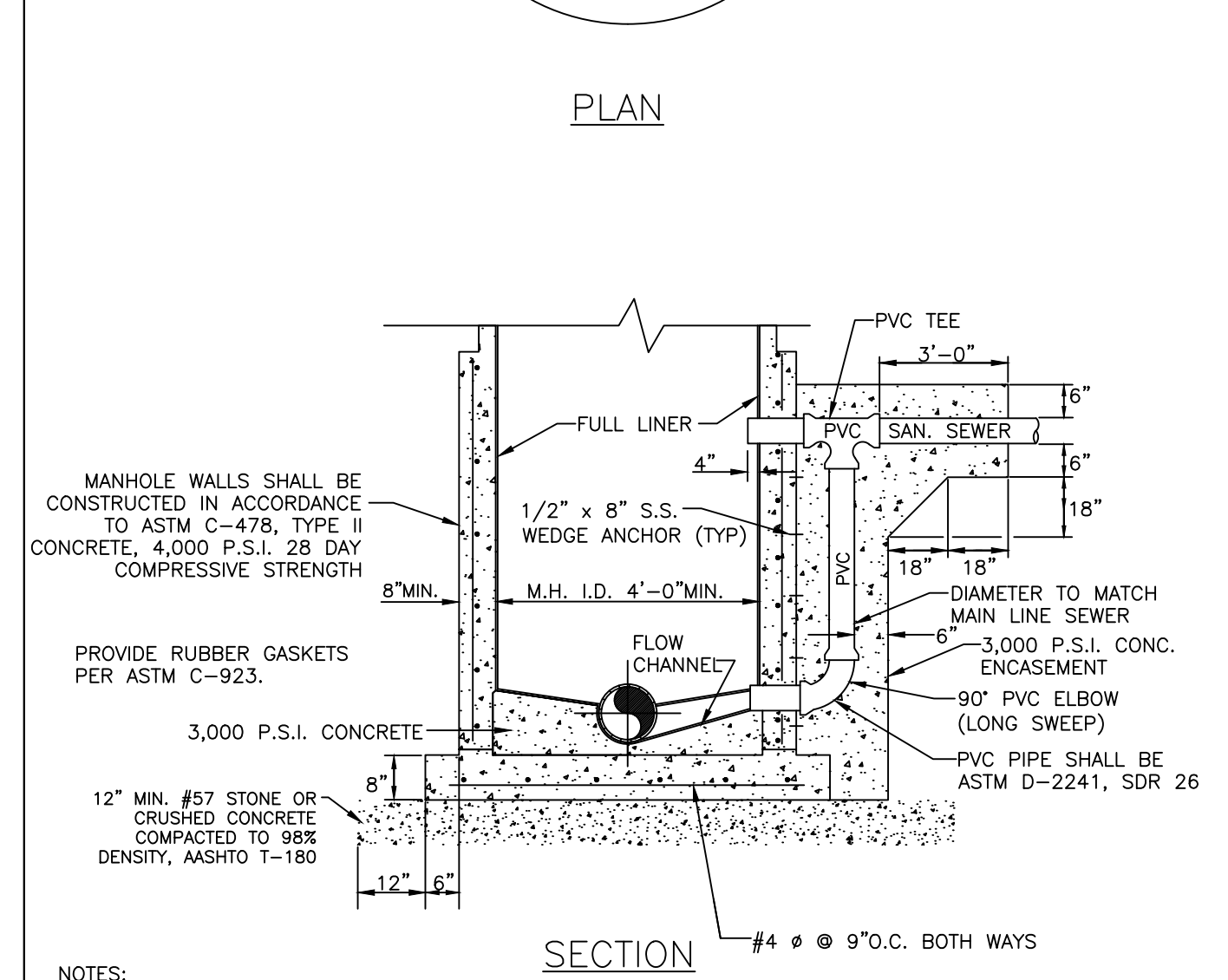
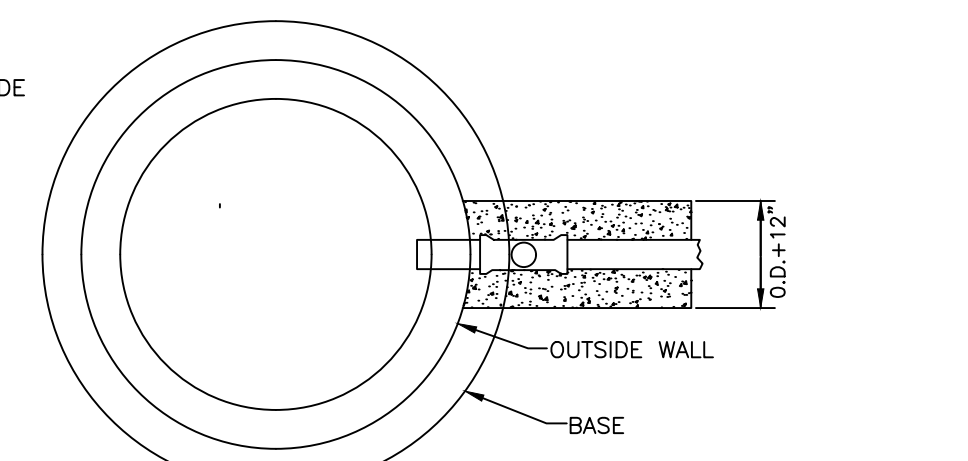


MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TRENCH WITH UNIMPROVED SURFACE TYPE A-1 PIPE BEDDING	UG-11
REV. BY	DATE	February 25, 2020 DATE OF APPROVAL	



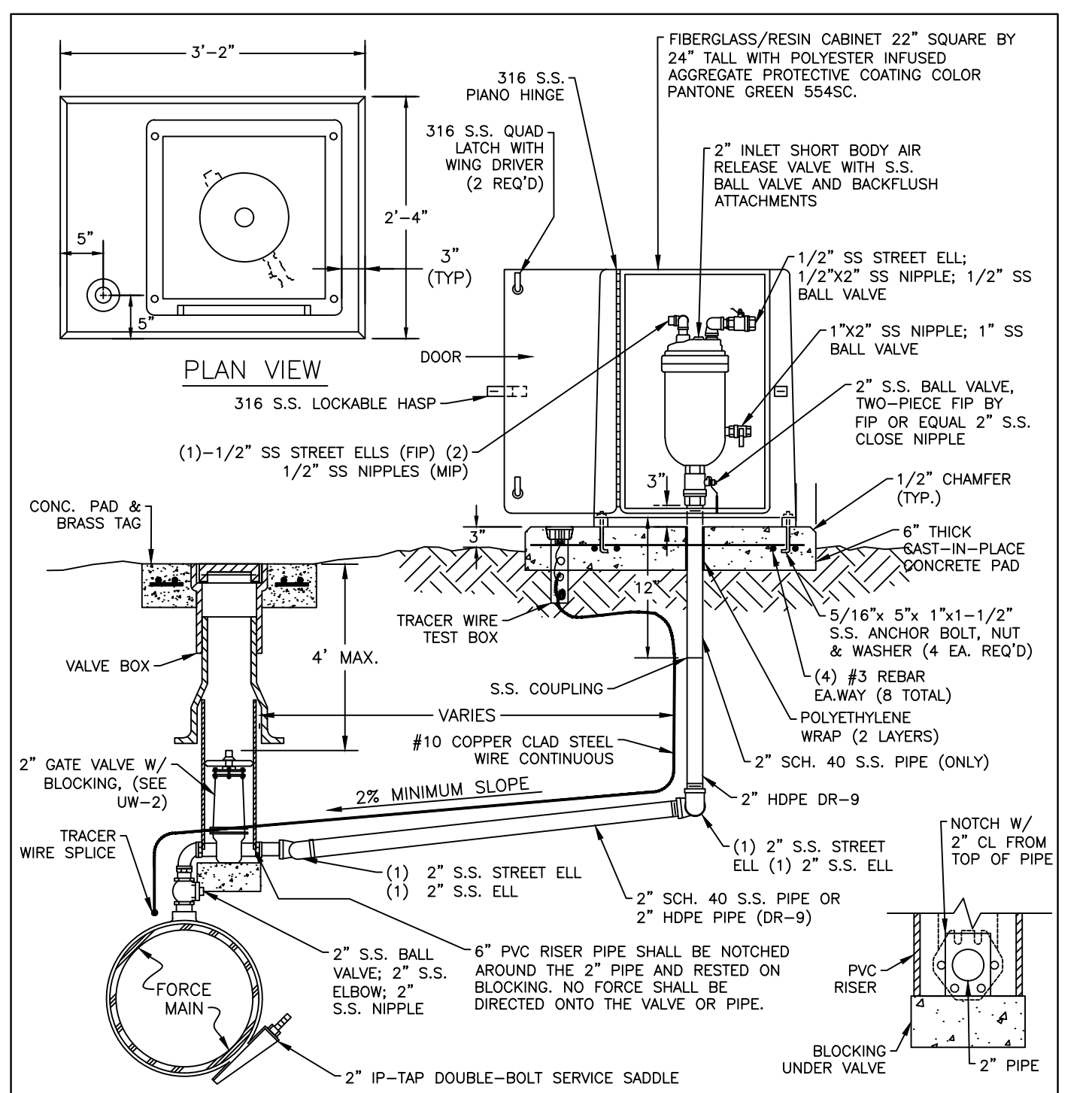
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		VALVE, BOX, COVER AND TAG	US-11
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

NOTES:
1. A PRECAST CONCRETE OUTSIDE DROP MAY BE USED IN LIEU OF THE CAST IN PLACE ENCASUREMENT SHOWN BELOW.



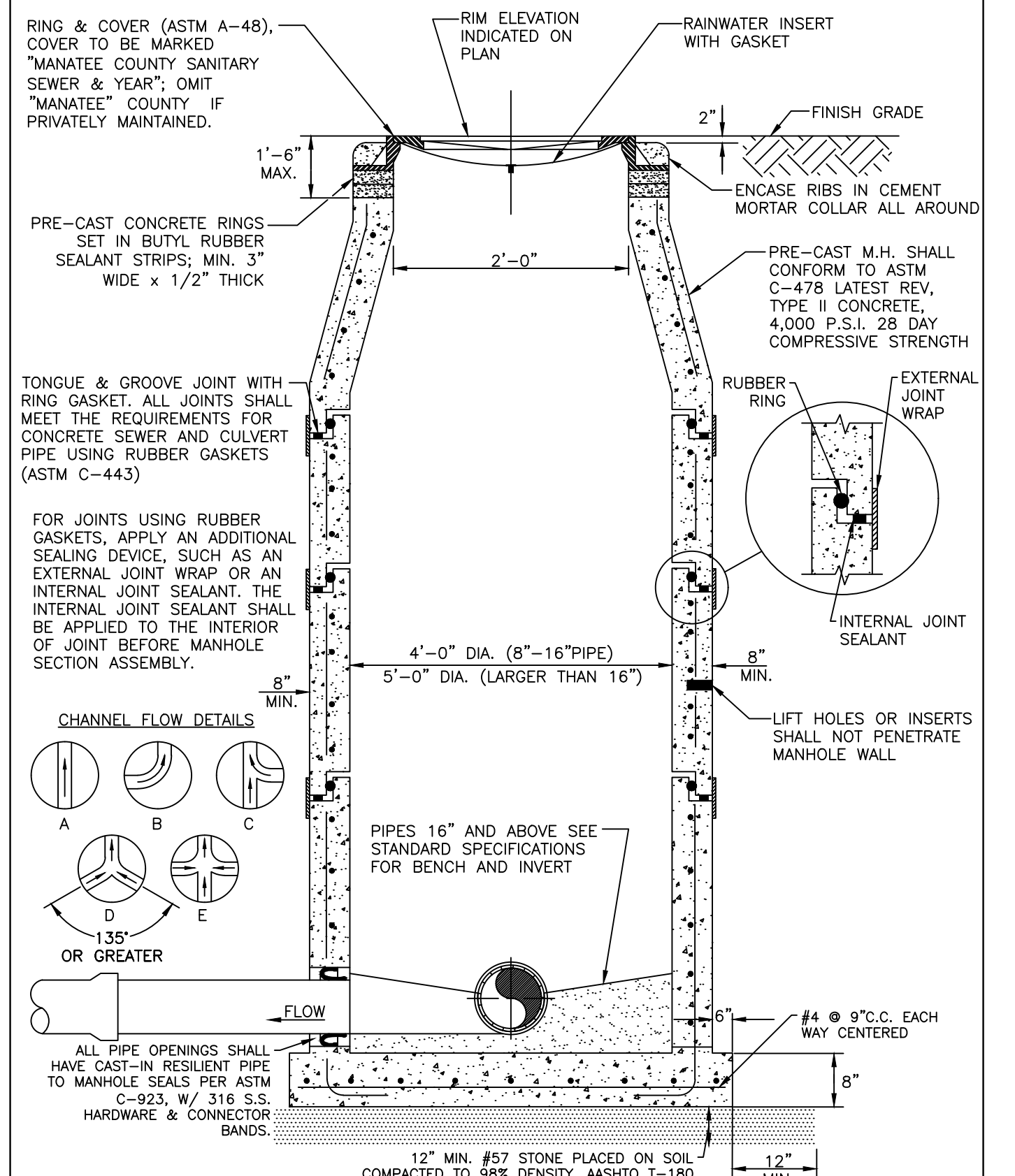
NOTES:
1. THIS IS A TURBULENT FLOW MANHOLE AND SHALL BE LINED WITH AN APPROVED LINER. IN NEW CONSTRUCTION, THIS MANHOLE SHALL BE MADE OF POLYMER CONCRETE, SEE US-3.
2. DROP MANHOLES ARE REQUIRED WHEN THE VERTICAL DISTANCE BETWEEN THE LOWEST EXISTING MANHOLE INVERT AND THE HIGHEST PIPE INVERT IS 2'-0" OR GREATER.
3. MANHOLE SHALL BE AASHTO H-20 RATED, WHEN LOCATED WITHIN THE RIGHT OF WAY.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		OUTSIDE DROP CONNECTION TO EX. PORTLAND CEMENT MANHOLE	US-6
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



NOTES:
1. AIR RELEASE VALVES TO BE ABOVE-GROUND INSTALLATIONS, UNLESS IMPRACTICAL, INSTALLATIONS MAY BE BELOW-GROUND ONLY WHERE APPROVED AND SPECIFICALLY INDICATED ON THE PLAN.
2. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS, OR WHERE AIR WOULD BE ENTRAPPED, ALONG 4" AND LARGER FORCE MAINS.
3. FORCE MAIN VERTICAL ALIGNMENT TO BE DESIGNED SUCH THAT THE MINIMUM NUMBER OF REQUIRED AIR RELEASE VALVES ARE INSTALLED.
4. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE 316 STAINLESS STEEL.
5. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
6. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
7. CONCRETE PAD SHALL BE TYPE I CONCRETE W/ 3,000 P.S.I., 28 DAY COMPRESSIVE STRENGTH.
8. ARV SHALL BE INSTALLED MINIMUM 6 FT FROM EDGE OF PAVEMENT; 10 FT MAXIMUM FROM BACK OF CURB; 4 FT MIN. MAY BE APPROVED BY UTILITIES IN SOME EXISTING AREAS.
9. SEE US-2 GATE VALVE, BOX, LID AND TAG STANDARD DETAIL. CENTERING COLLAR IS NOT REQUIRED ON 2" GATE VALVES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR FORCE MAINS	US-9
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		



NOTE:
DROP MANHOLES, MANHOLES WITH OPPOSING FLOW (DETAILS D & E), MANHOLES UPSTREAM OF A LIFT STATION WET WELL (SEE US-17A), MANHOLES WITH GRAVITY SEWERS GREATER THAN 12 INCHES IN DIAMETER, MANHOLES RECEIVING A FORCE MAIN AND THE FIRST TWO GRAVITY MANHOLES DOWNSTREAM OF MANHOLES RECEIVING A FORCE MAIN SHALL BE A POLYMER CONCRETE MANHOLE (SEE US-3); OR EXISTING PORTLAND CONCRETE MANHOLE SHALL RECEIVE AN APPROVED LINER.

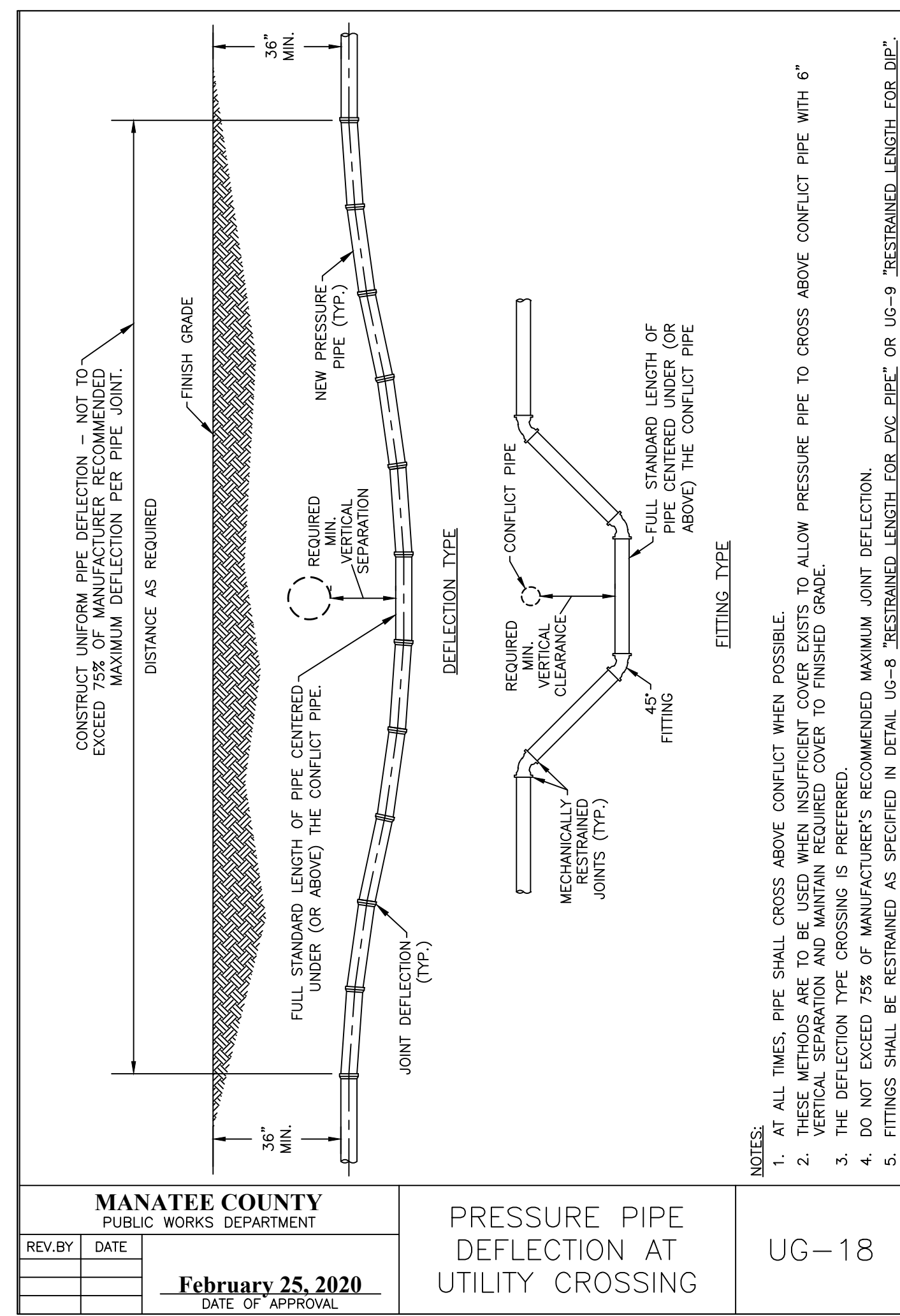
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		STANDARD PRE-CAST SANITARY SEWER MANHOLE FOR UNDISTURBED FLOW	US-2
REV. BY	DATE		
	February 25, 2020		
	DATE OF APPROVAL		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

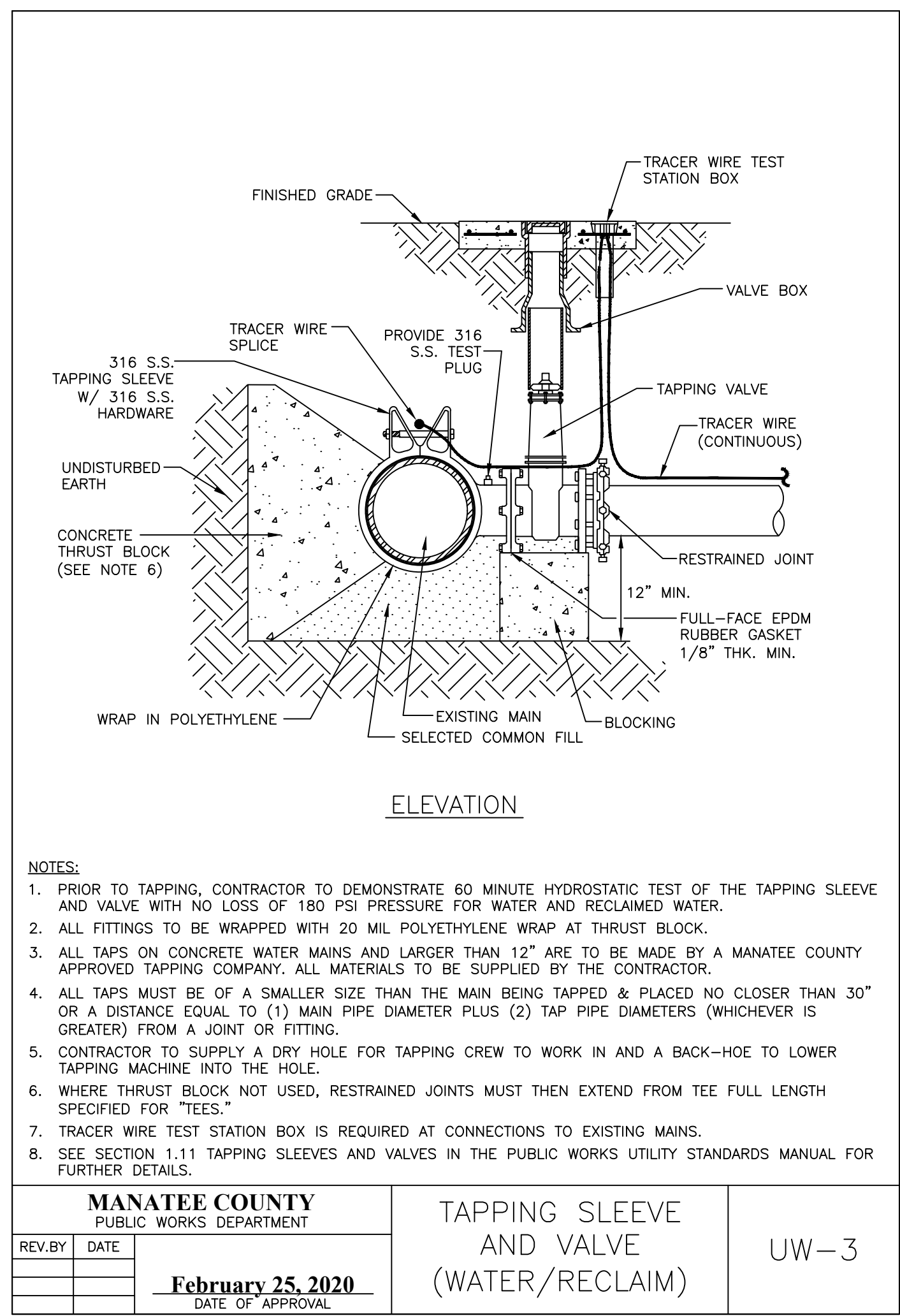
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CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1
DATE:	10/2020
HORIZONTAL SCALE:	
VERTICAL SCALE:	
SHEET NUMBER:	21565900-01C-5325M
TOTAL SHEETS:	90 OF 112

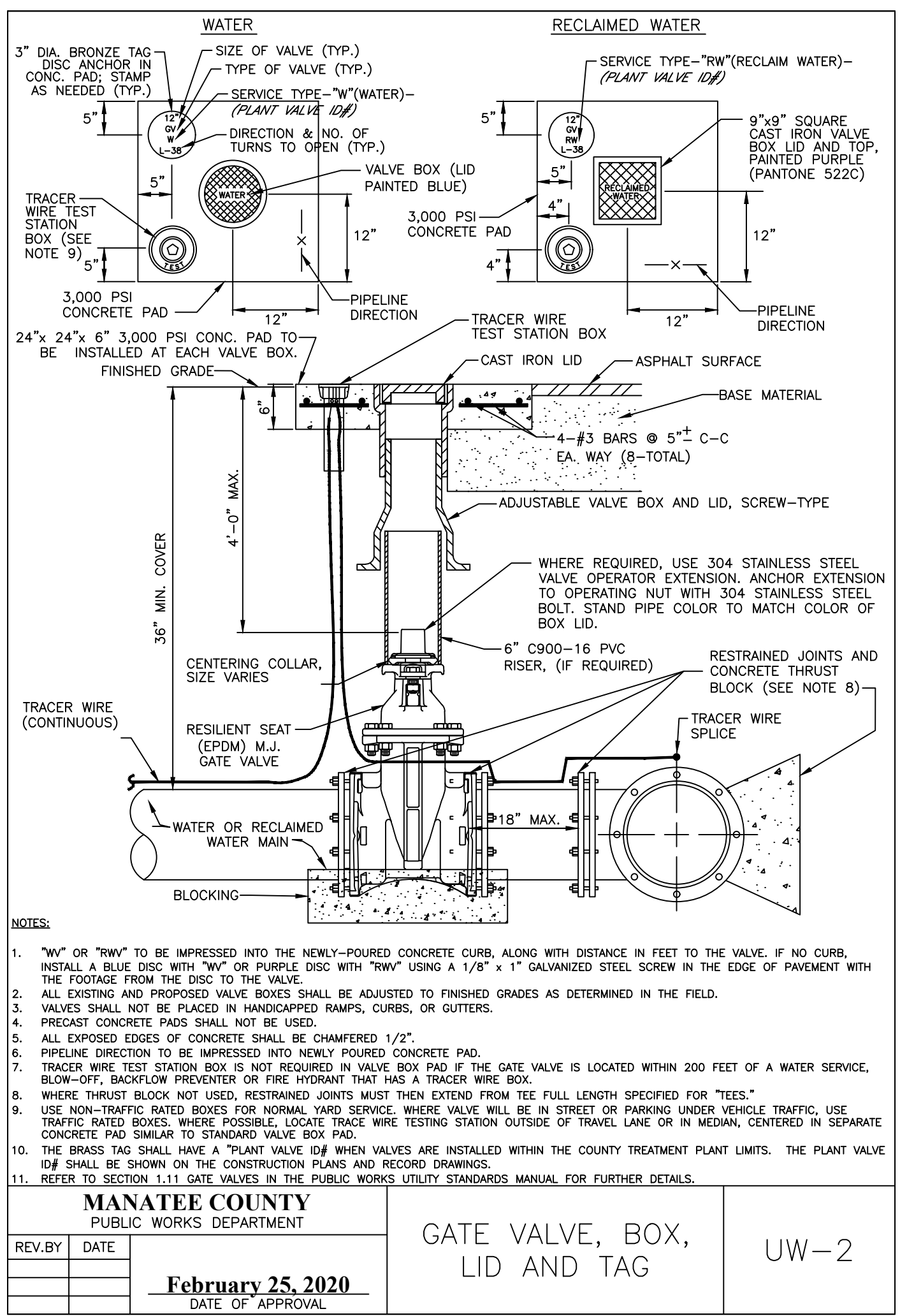
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CROSS REFERENCE FILE NO.:	
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SHEET NUMBER:	90 OF 112



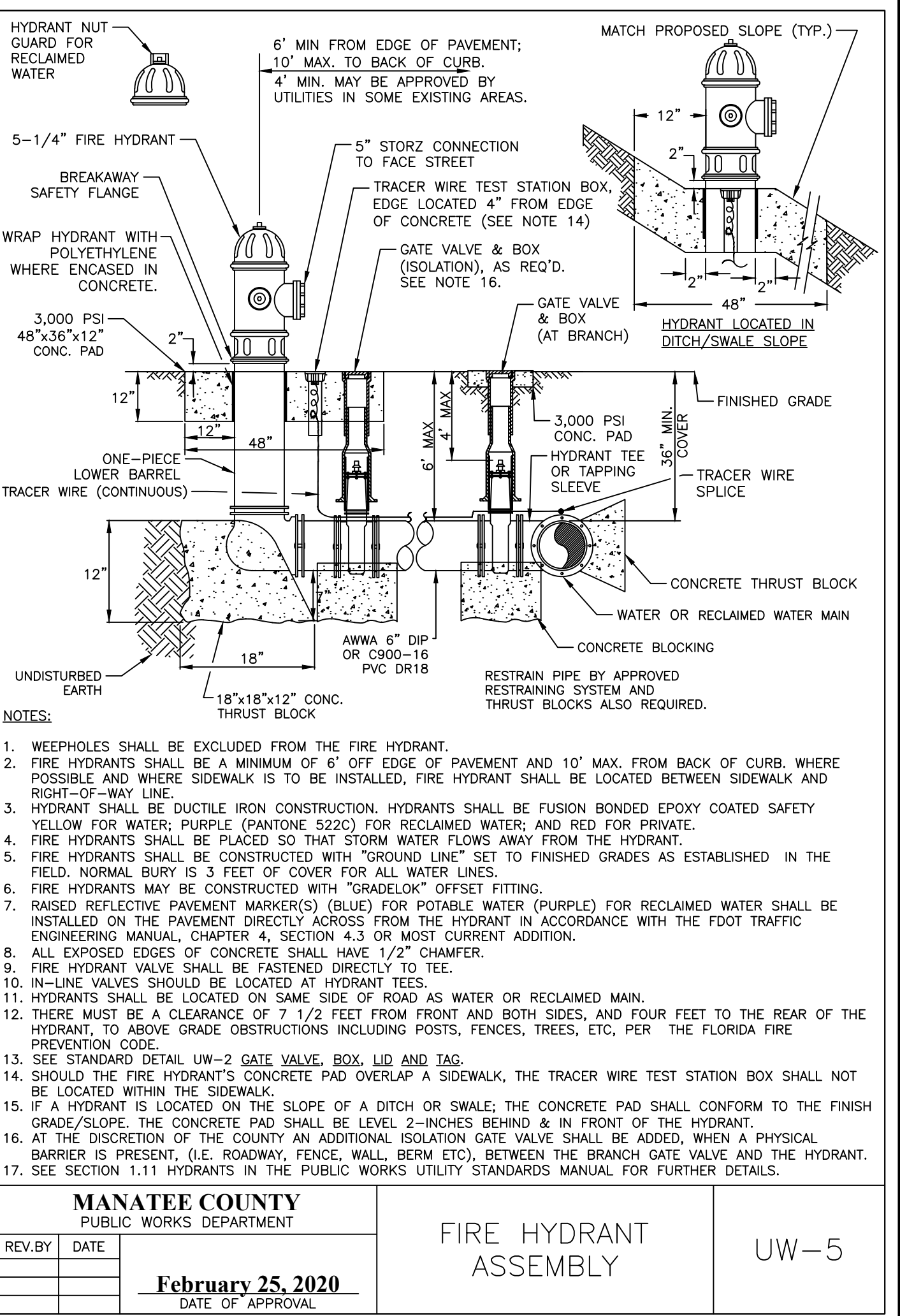
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		PRESSURE PIPE DEFLECTION AT UTILITY CROSSING	UG-18
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



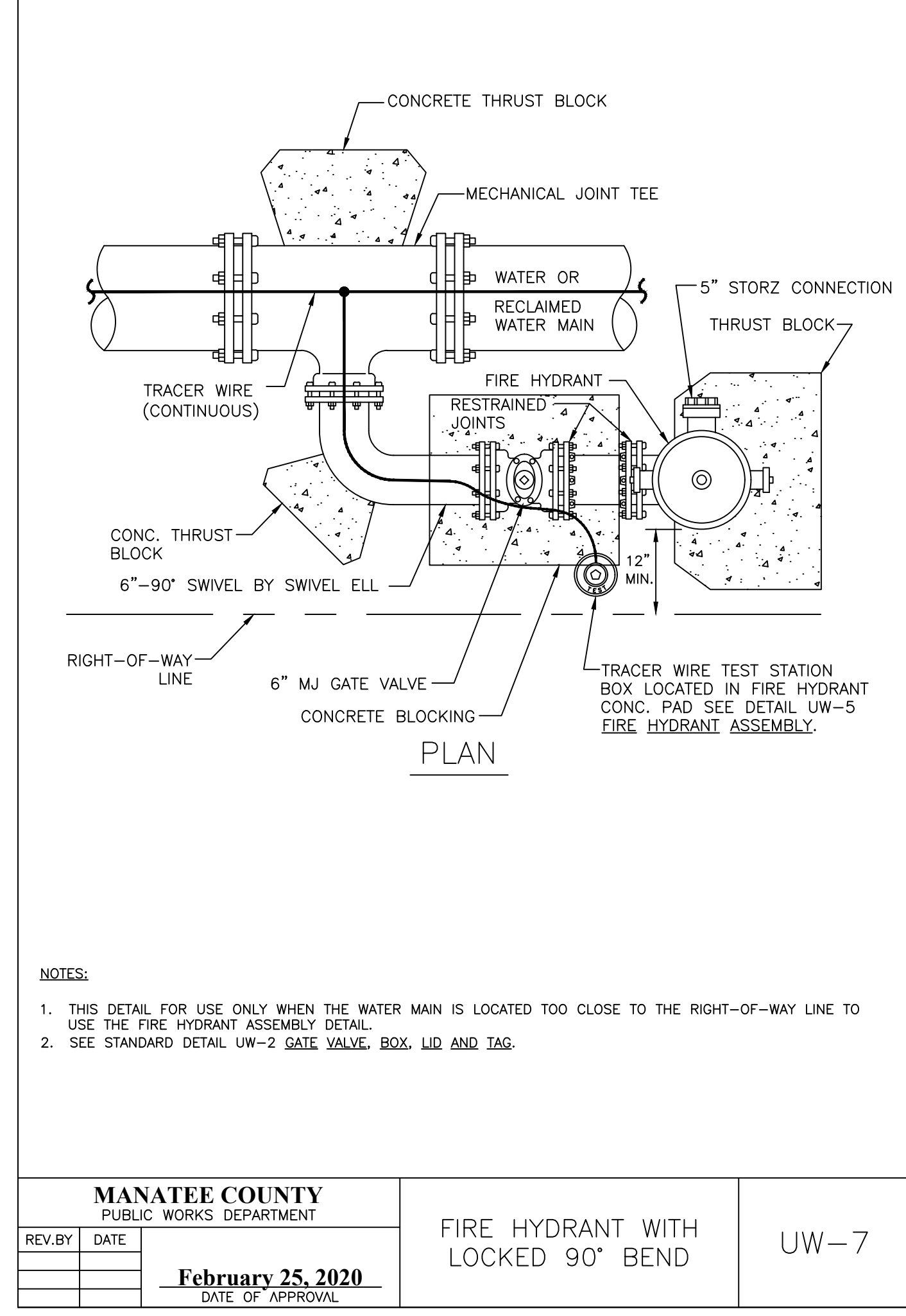
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TAPPING SLEEVE AND VALVE (WATER/RECLAIM)	UW-3
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



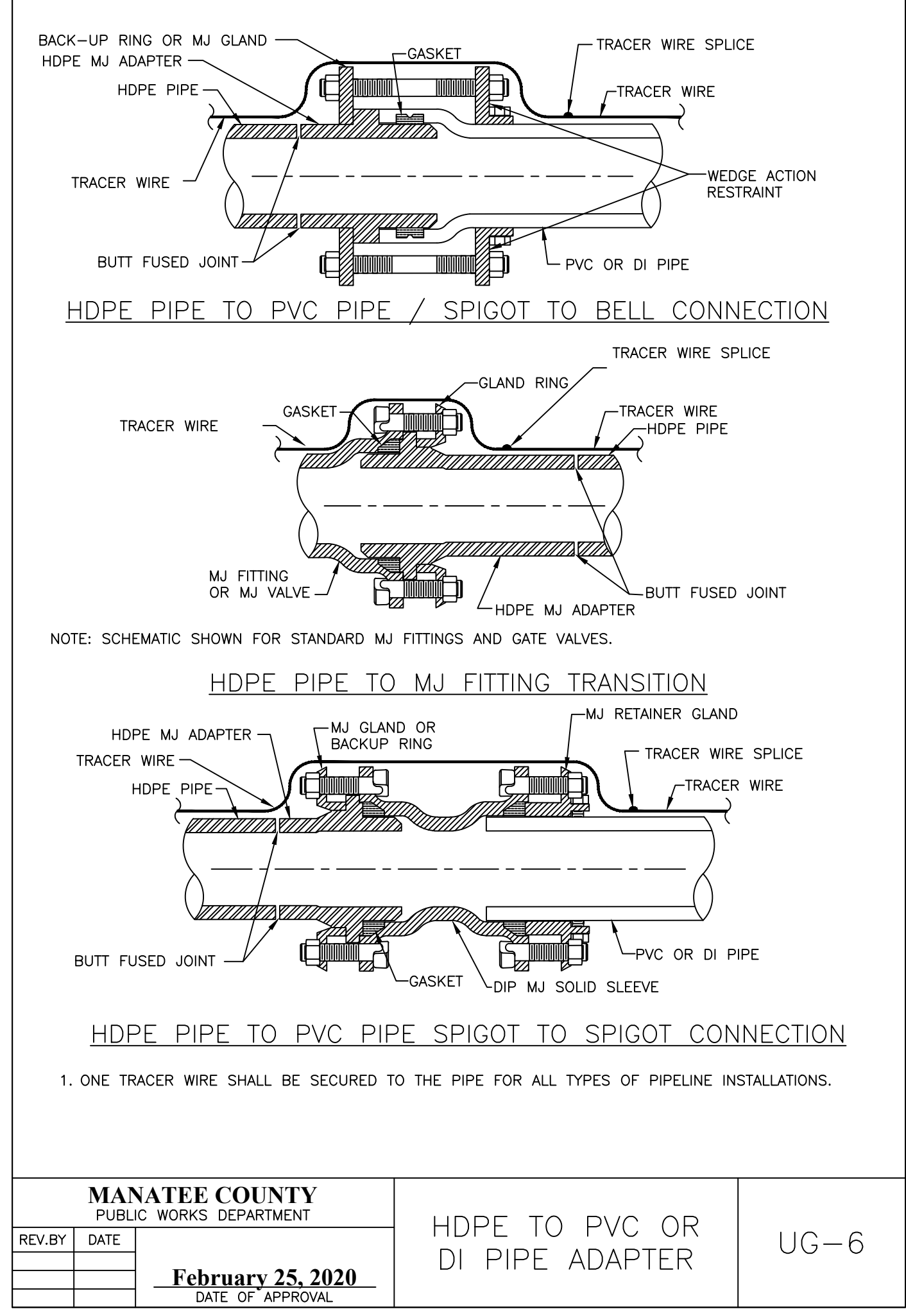
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		GATE VALVE, BOX, LID AND TAG	UW-2
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



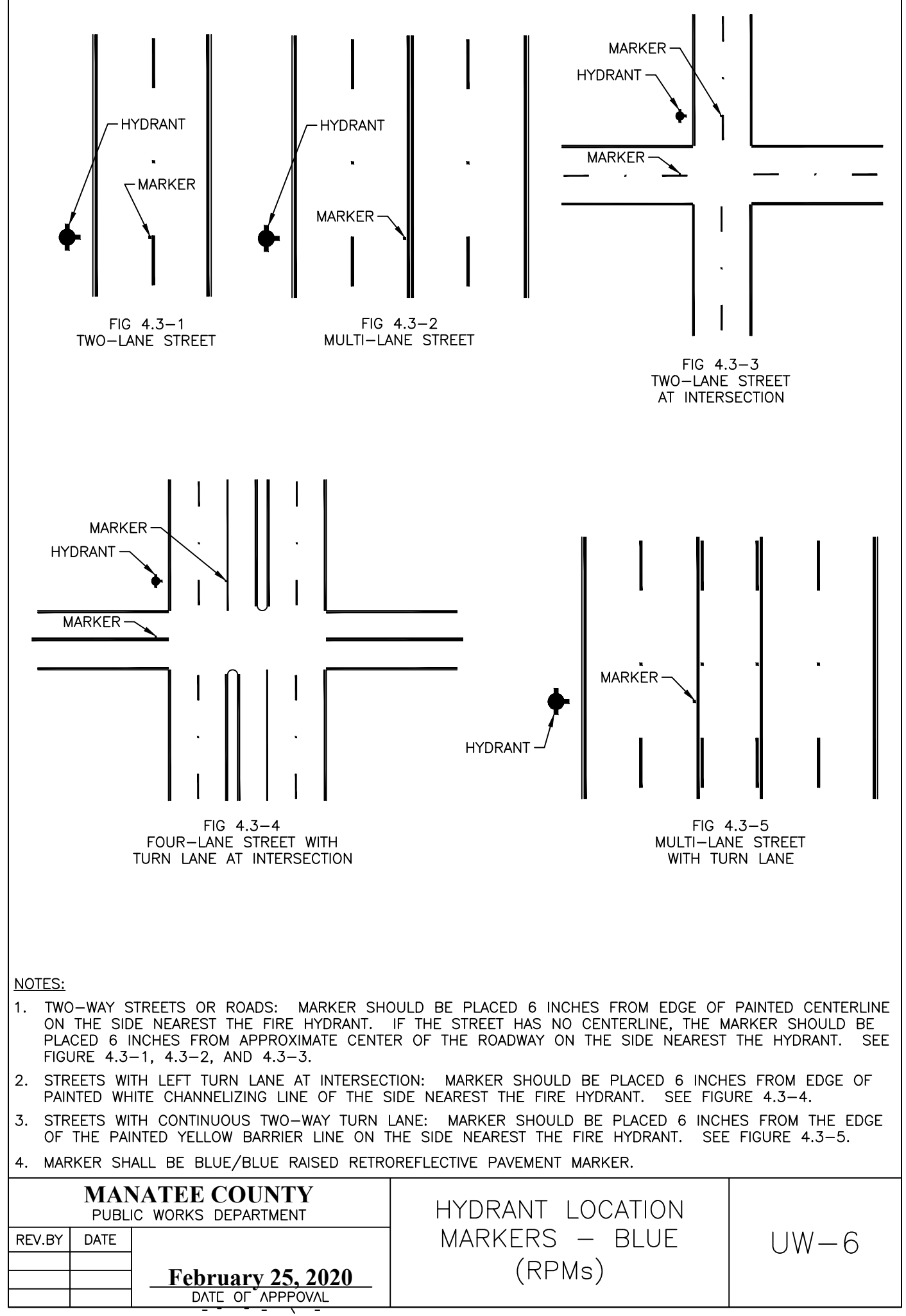
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT ASSEMBLY	UW-5
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



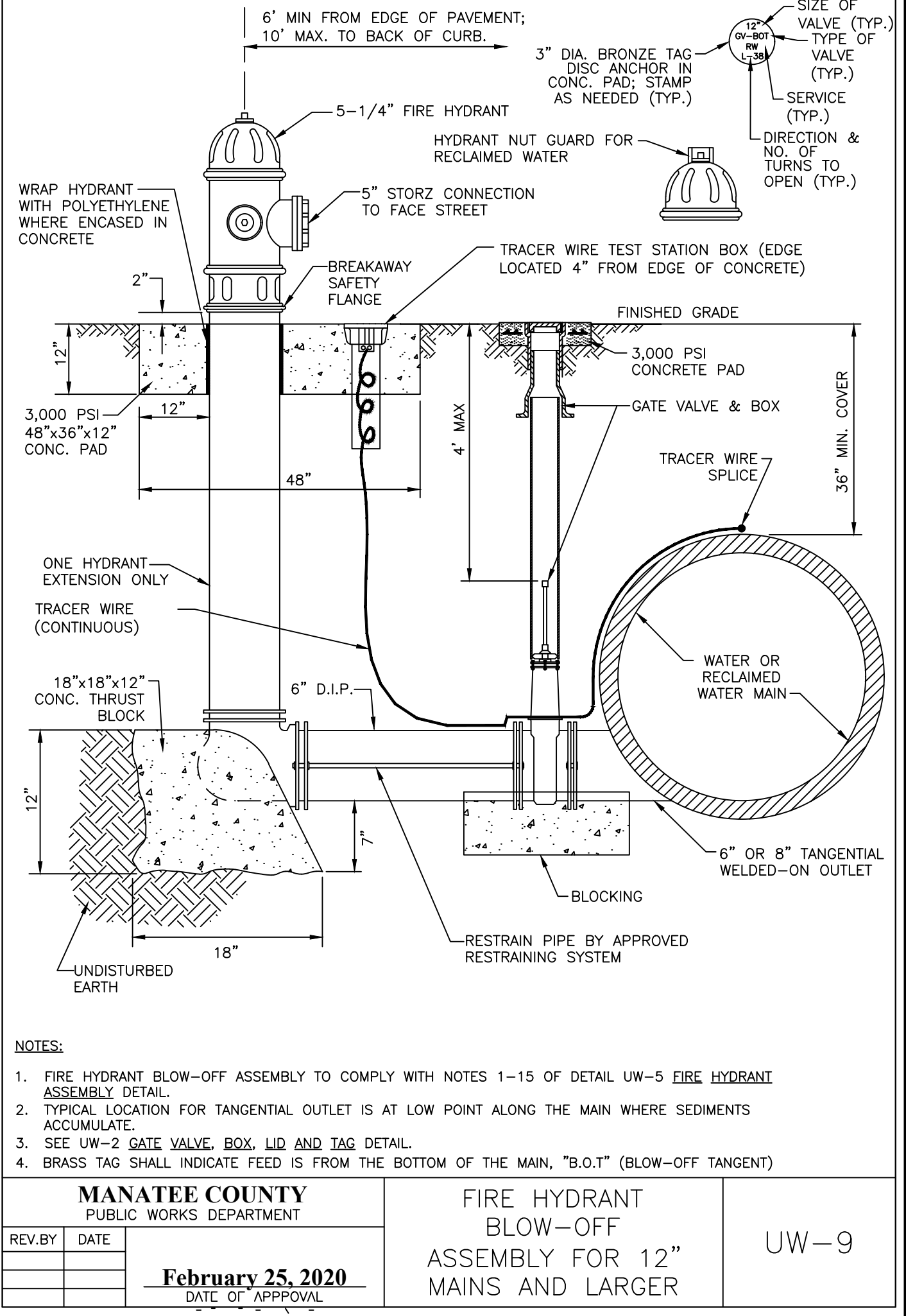
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT WITH LOCKED 90° BEND	UW-7
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HDPE TO PVC OR DI PIPE ADAPTER	UG-6
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



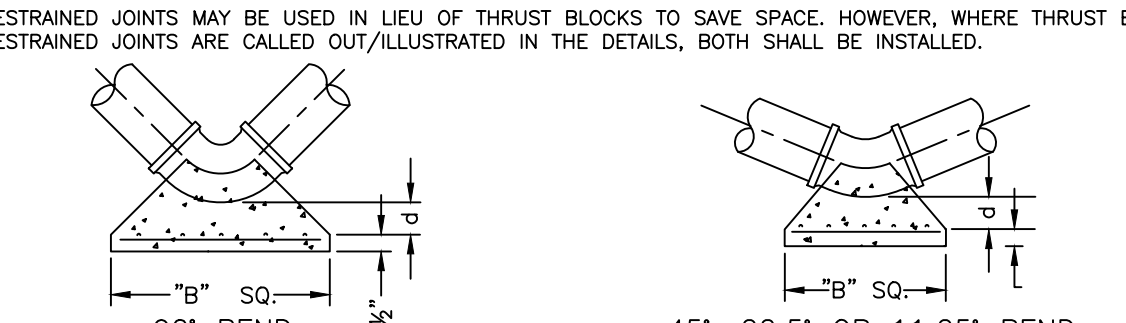
MANATEE COUNTY PUBLIC WORKS DEPARTMENT		HYDRANT LOCATION MARKERS - BLUE (RPMs)	UW-6
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	



MANATEE COUNTY PUBLIC WORKS DEPARTMENT		FIRE HYDRANT BLOW-OFF ASSEMBLY FOR 12\"/>	
REV. BY	DATE		
	February 25, 2020	DATE OF APPROVAL	

THRUST BLOCK DIMENSIONS 8 ft. x d inches. Table with columns for PIPE SIZE (IN.), 90° BEND, 45° BEND, 22.5° BEND, 11.25° BEND, DEAD END & TEE, and 45° WYE. Rows include pipe sizes from 4 to 36 inches.

REINFORCEMENT MAT SCHEDULE. FOR DIM. "B" BETWEEN 5.75" & 12.5" USE #4 @ 8" EACH WAY. FOR DIM. "B" LESS THAN 5.75" USE #3 @ 8" EACH WAY.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT. CONCRETE THRUST BLOCKS. UG-7. REV. DATE: February 25, 2020. DATE OF APPROVAL.

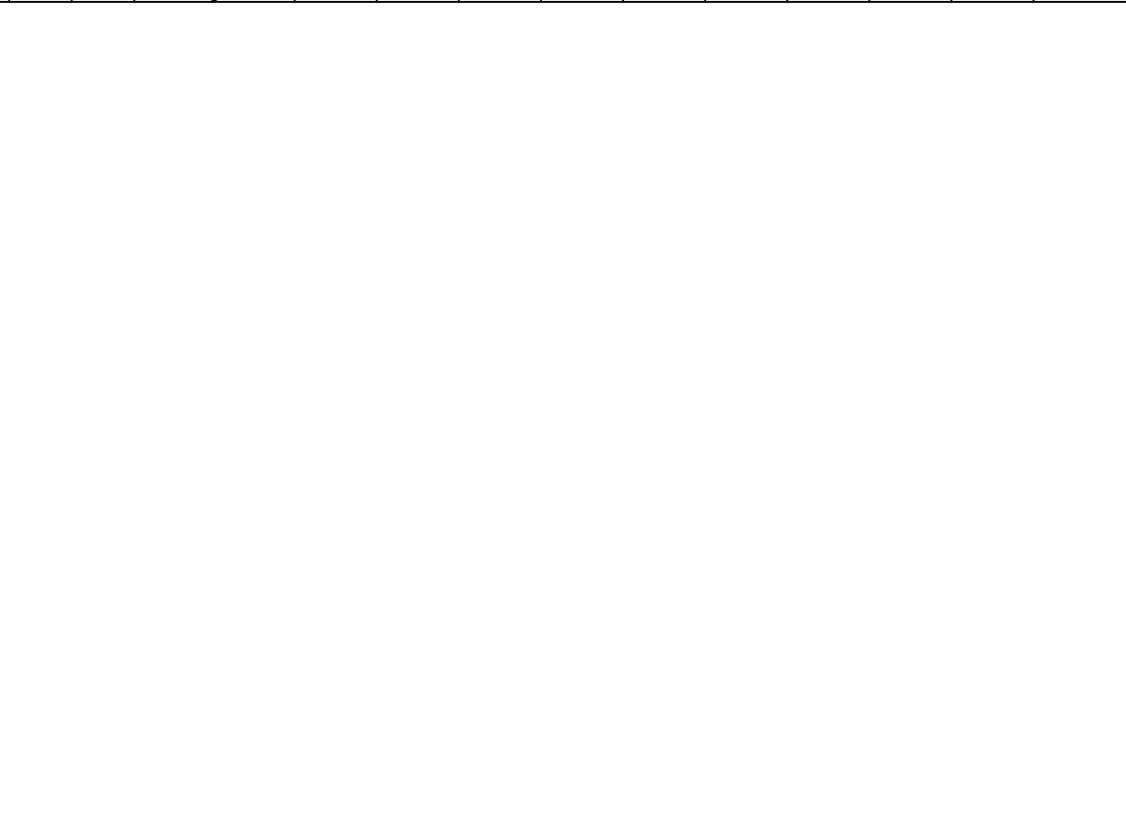
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C90-16 PVC PIPE (DR-18). Table with columns for MAIN PIPE SIZE, HORIZ. BENDS (90°, 45°, 22.5°), TEES, REDUCERS, PLUGS & VALVES, and a length column.

NOTES: 1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS. 2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.

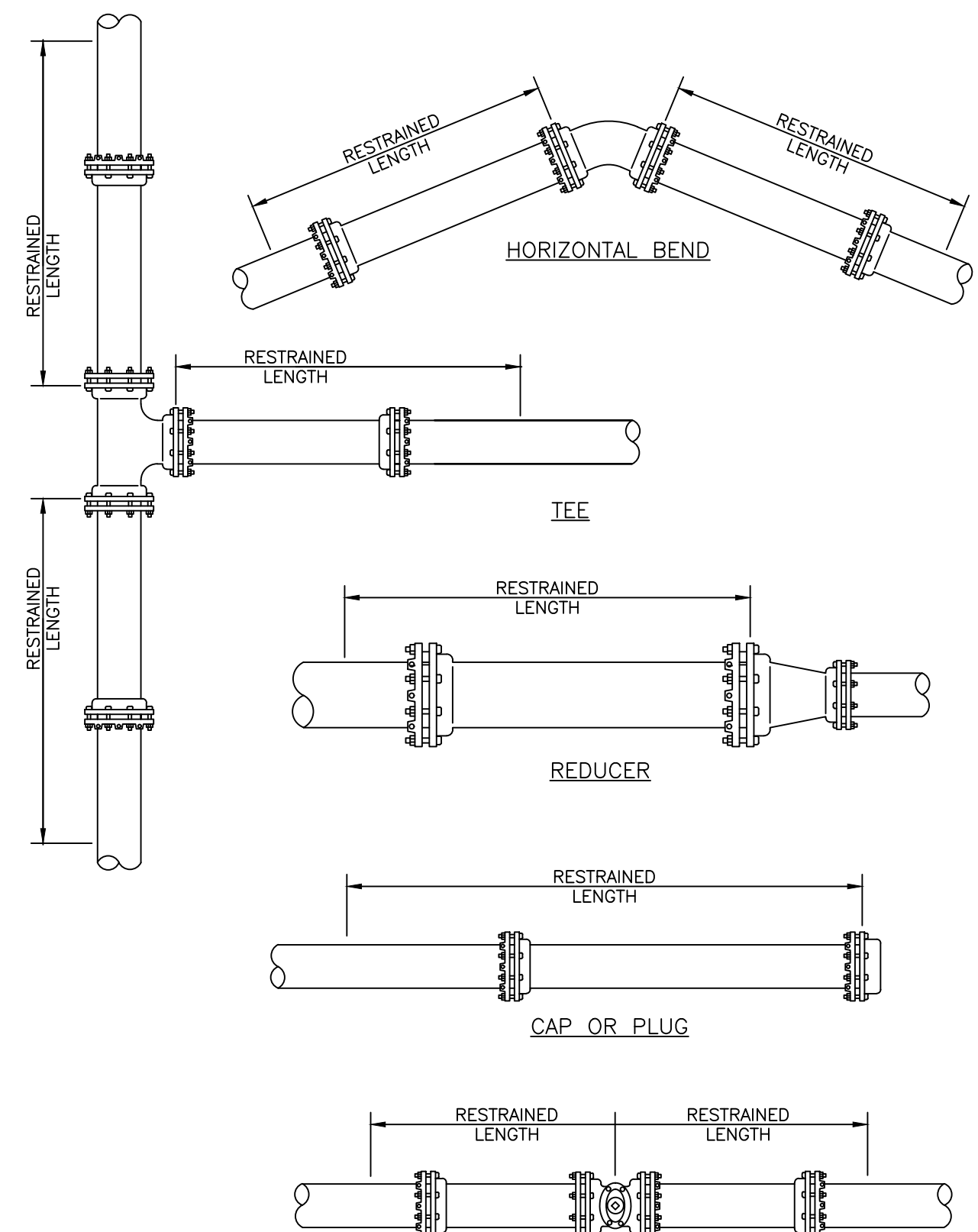
MANATEE COUNTY PUBLIC WORKS DEPARTMENT. RESTRAINED LENGTHS FOR PVC PIPE. UG-8. REV. DATE: February 25, 2020. DATE OF APPROVAL.

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DIP (POLY-WRAPPED)

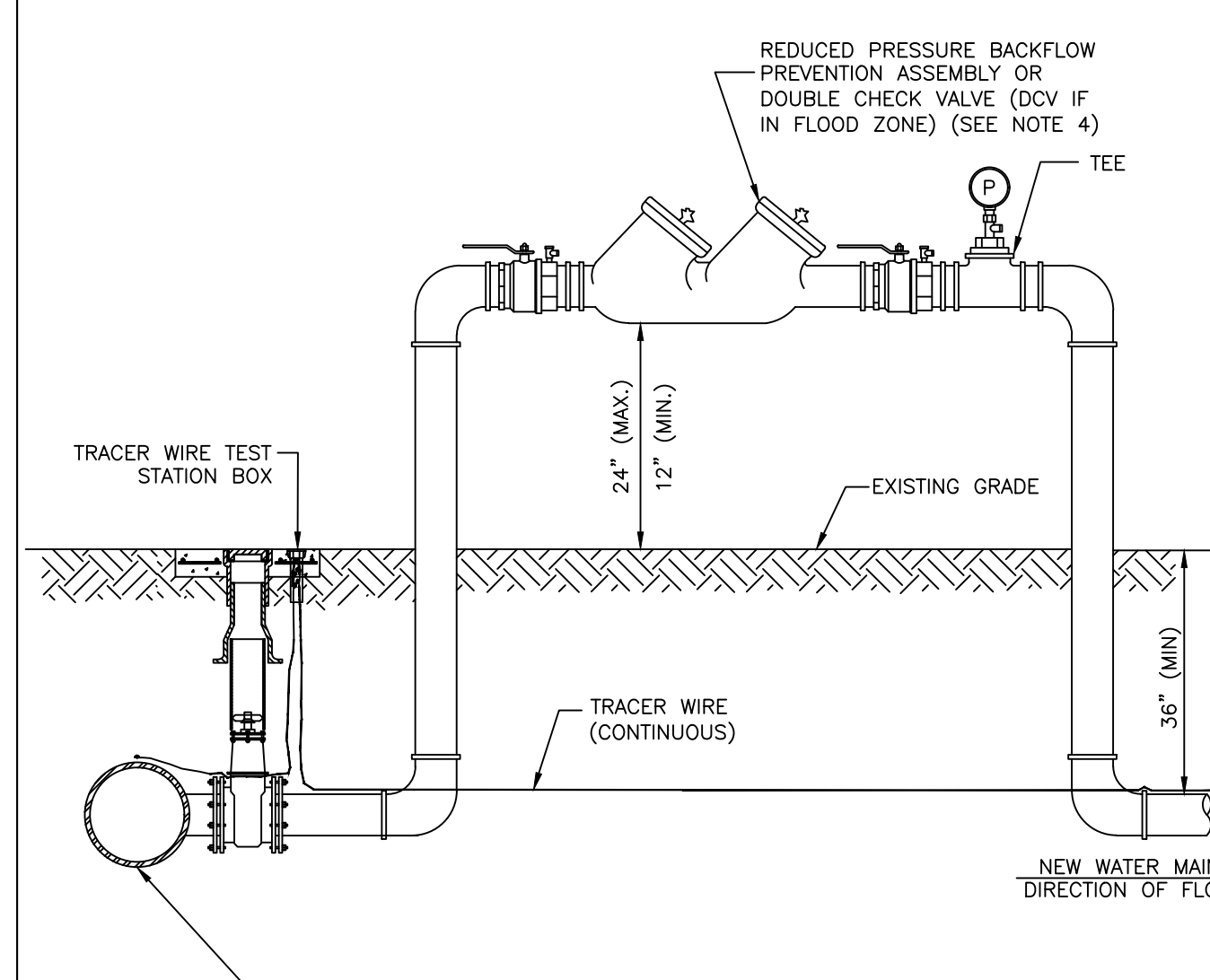
Table with columns for MAIN PIPE SIZE, HORIZ. BENDS, TEES, REDUCERS, PLUGS & VALVES, and a length column. Similar to UG-8 but for dip applications.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT. RESTRAINED LENGTHS FOR DIP. UG-9. REV. DATE: February 25, 2020. DATE OF APPROVAL.

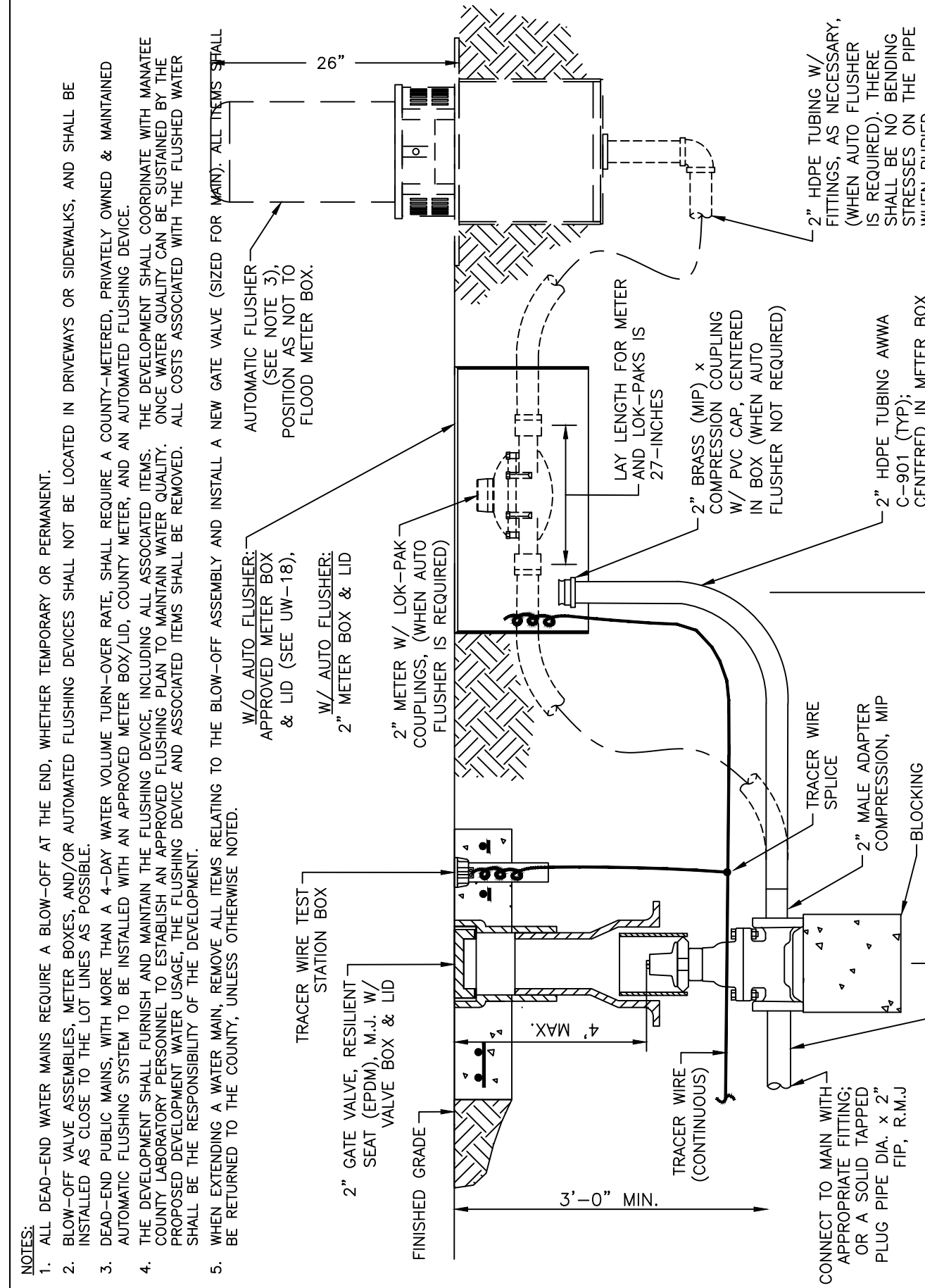


MANATEE COUNTY PUBLIC WORKS DEPARTMENT. RESTRAINED LENGTHS FOR PIPE. UG-10. REV. DATE: February 25, 2020. DATE OF APPROVAL.



NOTES: 1. FOR TIE-IN VALVE, SEE DETAIL UW-3 FOR TAPPING SLEEVE VALVE AND UW-2 FOR GATE VALVE. 2. CORPORATION STOP CONNECTIONS TO WATER MAINS SHALL BE AT A SUFFICIENT DISTANCE FROM NEW TAPPING SLEEVE & VALVE (TIE-IN VALVE).

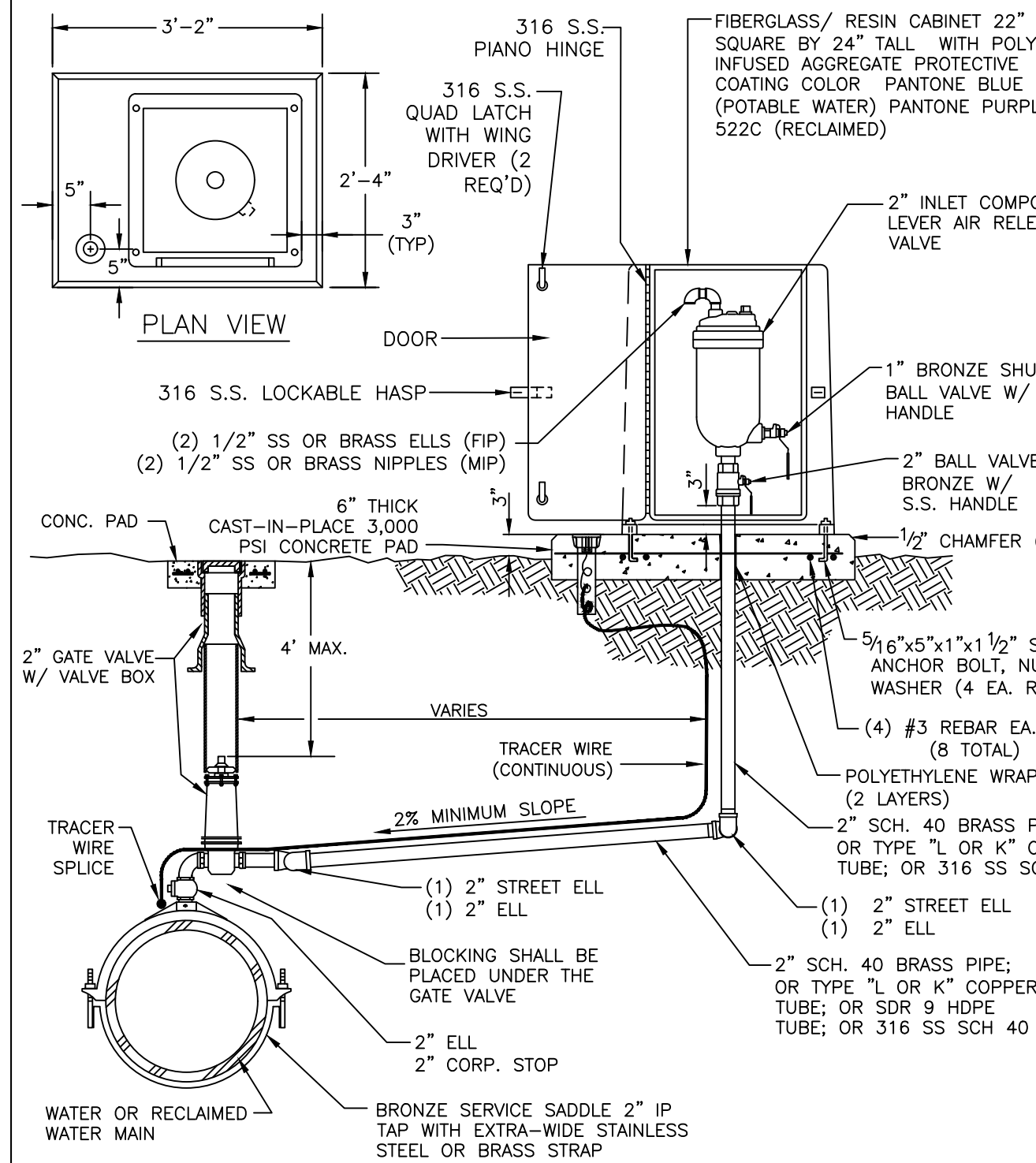
MANATEE COUNTY PUBLIC WORKS DEPARTMENT. TEMPORARY JUMPER CONNECTION - NO HYDRANT AVAILABLE. UW-23B. REV. DATE: February 25, 2020. DATE OF APPROVAL.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT. 2" BLOW-OFF ASSEMBLY. UW-8. REV. DATE: February 25, 2020. DATE OF APPROVAL.

1. A 2-INCH MINIMUM TEMPORARY JUMPER CONNECTION IS REQUIRED AT ALL CONNECTIONS BETWEEN EXISTING ACTIVE POTABLE WATER MAINS AND PROPOSED NEW WATER MAIN IMPROVEMENTS WITH THE FOLLOWING EXCEPTIONS: a. PROJECTS THAT INCLUDE A PERMANENT BACKFLOW PREVENTER AT THE RIGHT-OF-WAY WHICH IS ADJACENT TO THE EXISTING WATER MAIN;

MANATEE COUNTY PUBLIC WORKS DEPARTMENT. TEMPORARY JUMPER CONNECTION NOTES. UW-24. REV. DATE: February 25, 2020. DATE OF APPROVAL.



MANATEE COUNTY PUBLIC WORKS DEPARTMENT. ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR 16-INCH AND LARGER MAINS. UW-11. REV. DATE: February 25, 2020. DATE OF APPROVAL.

Project information section including CLIENT (MANATEE COUNTY PUBLIC WORKS DEPARTMENT), PROJECT (MOCCASIN WALLOW ROAD SEGMENT 1), DATE (10/2020), TITLE (WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS), and drawing number (21565900-01C-531WD).

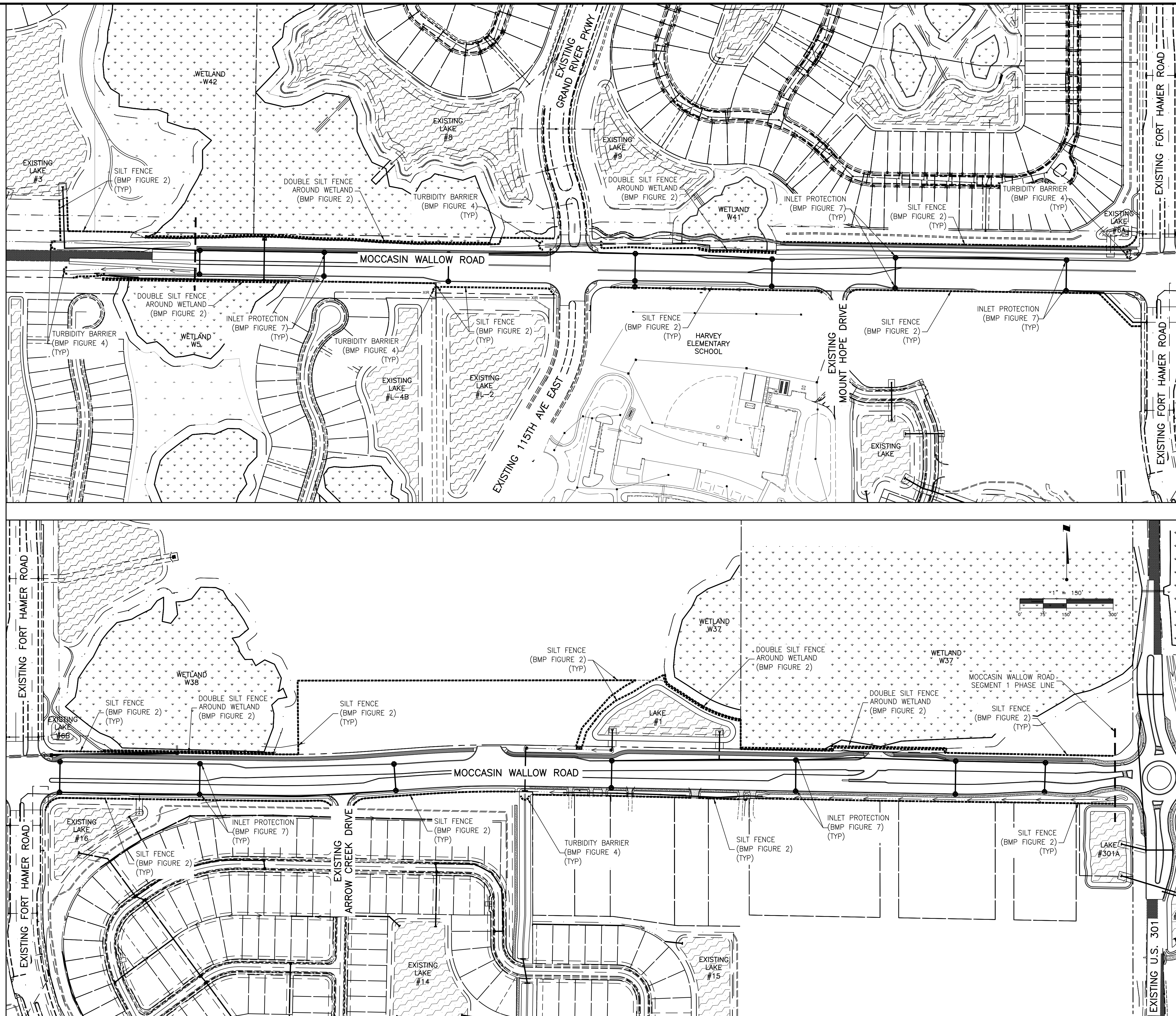


NOTES

1. A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFMD AND FDEP PERMITTING CONDITIONS.
3. THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEPED AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
6. THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
8. ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR HAY BALES IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
9. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPs SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
10. AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
11. DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
12. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT SUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES.
13. THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
14. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3") WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
15. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
18. THE SITE SUPERINTENDENT, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILLING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
19. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
20. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
21. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
22. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
23. THE SEDIMENT BASIN SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
24. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANOR THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.
28. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE AT SPECIFIED LOCATIONS AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT OVERSEES THE PERMITTING REQUIREMENTS OF DEWATERING MEANS AND METHODS. ALL DEWATERING EFFLUENT SHALL BE ROUTED TO A TEMPORARY SEDIMENT SUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATERS, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM AS DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION, THOUGH THE ACTUAL LAYOUT OF THE SYSTEM MAY BE CONSTRUCTED AS DICTATED BY FIELD CONDITIONS.
29. IF IT IS NECESSARY TO DISCHARGE DEWATERING EFFLUENT OFFSITE, THEN COVERAGE UNDER THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) "GENERIC PERMIT FOR THE DISCHARGE OF PRODUCED GROUND WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY", MUST BE OBTAINED BY THE CONTRACTOR. SHOULD CONTAMINATION IN EXCESS OF THE THRESHOLDS FOR GENERIC PERMITTING BE FOUND IN THE REQUIRED SAMPLING, AN "INDIVIDUAL PERMIT FOR WASTEWATER DISCHARGE" IS REQUIRED. THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING THE APPLICABLE PERMIT FOR DISCHARGE OF DEWATERING EFFLUENT AND FOR COMPLYING WITH THE PERMIT CONDITIONS.
30. CONTRACTOR TO REVIEW FIELD LOCATION OF SILT FENCE WITH OWNER/OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
31. NUISANCE, EXOTIC PLANT SPECIES REMOVAL SHALL BE ACCOMPLISHED PER SECTION 715.4 OF THE LDC.

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

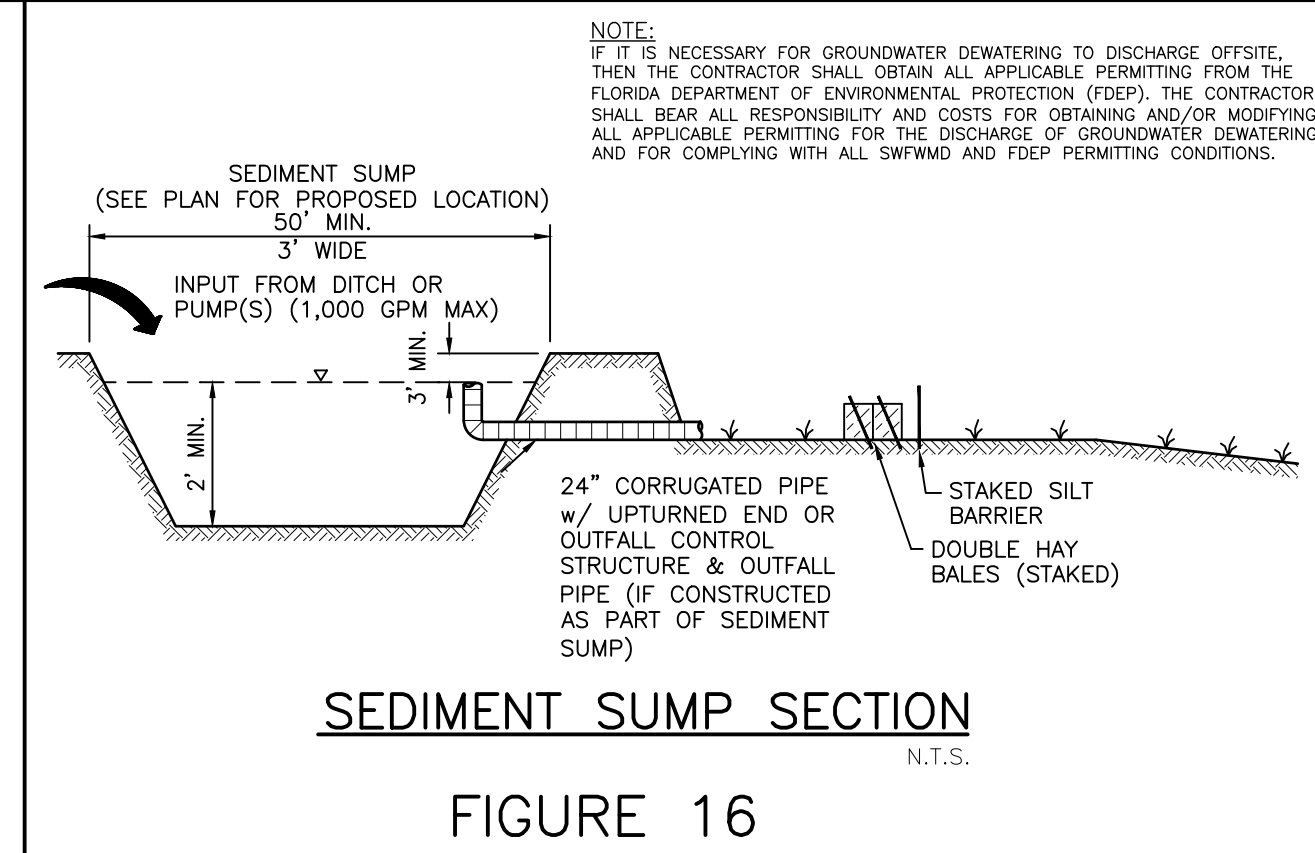
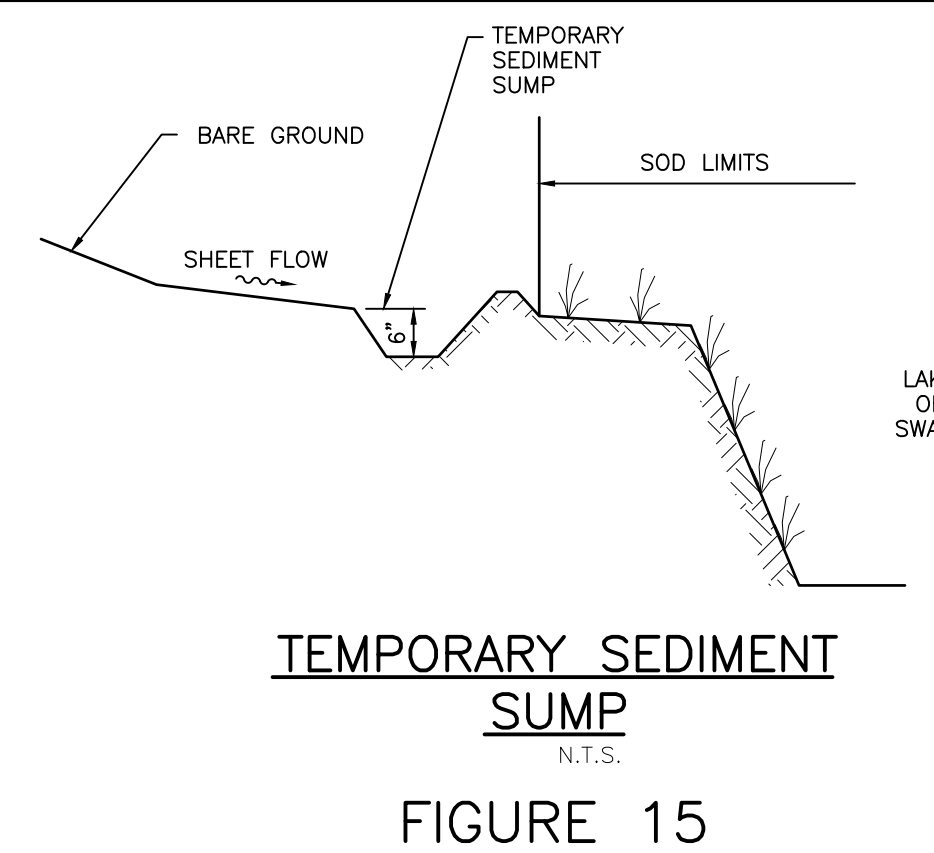
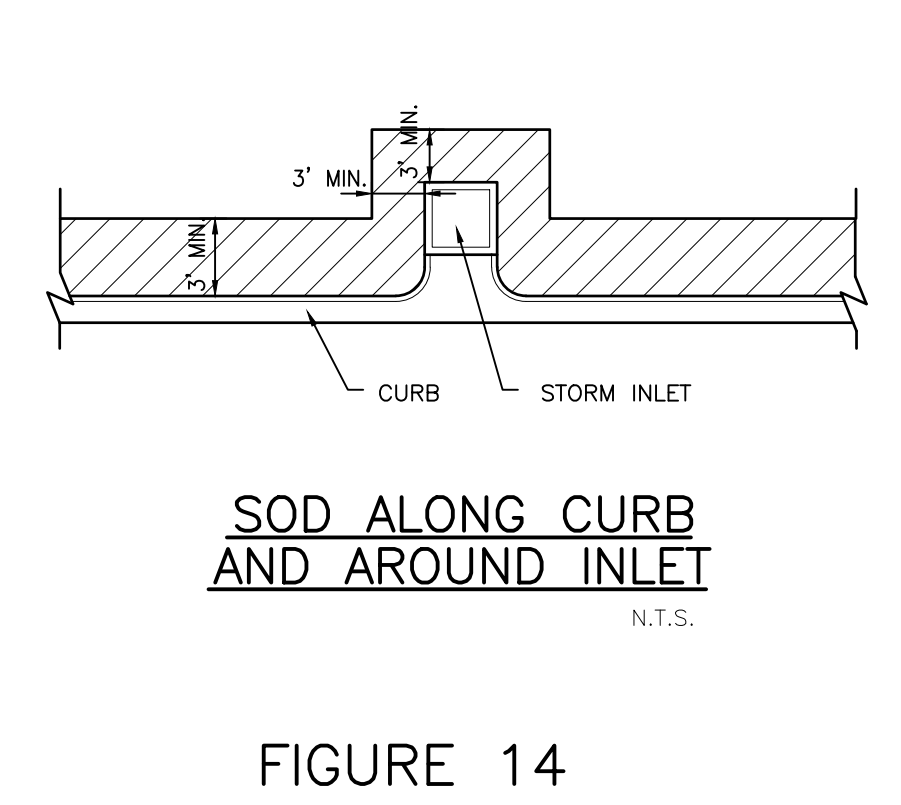
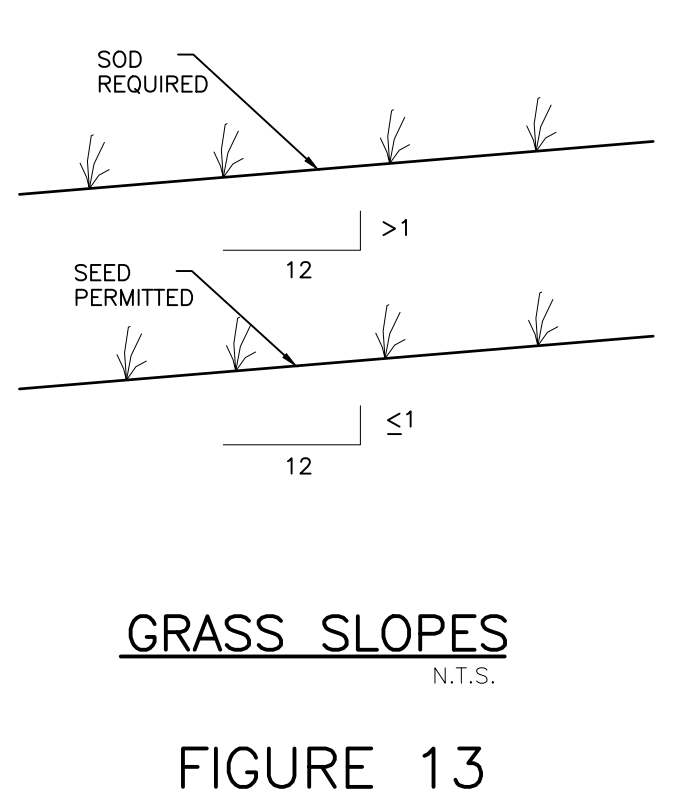
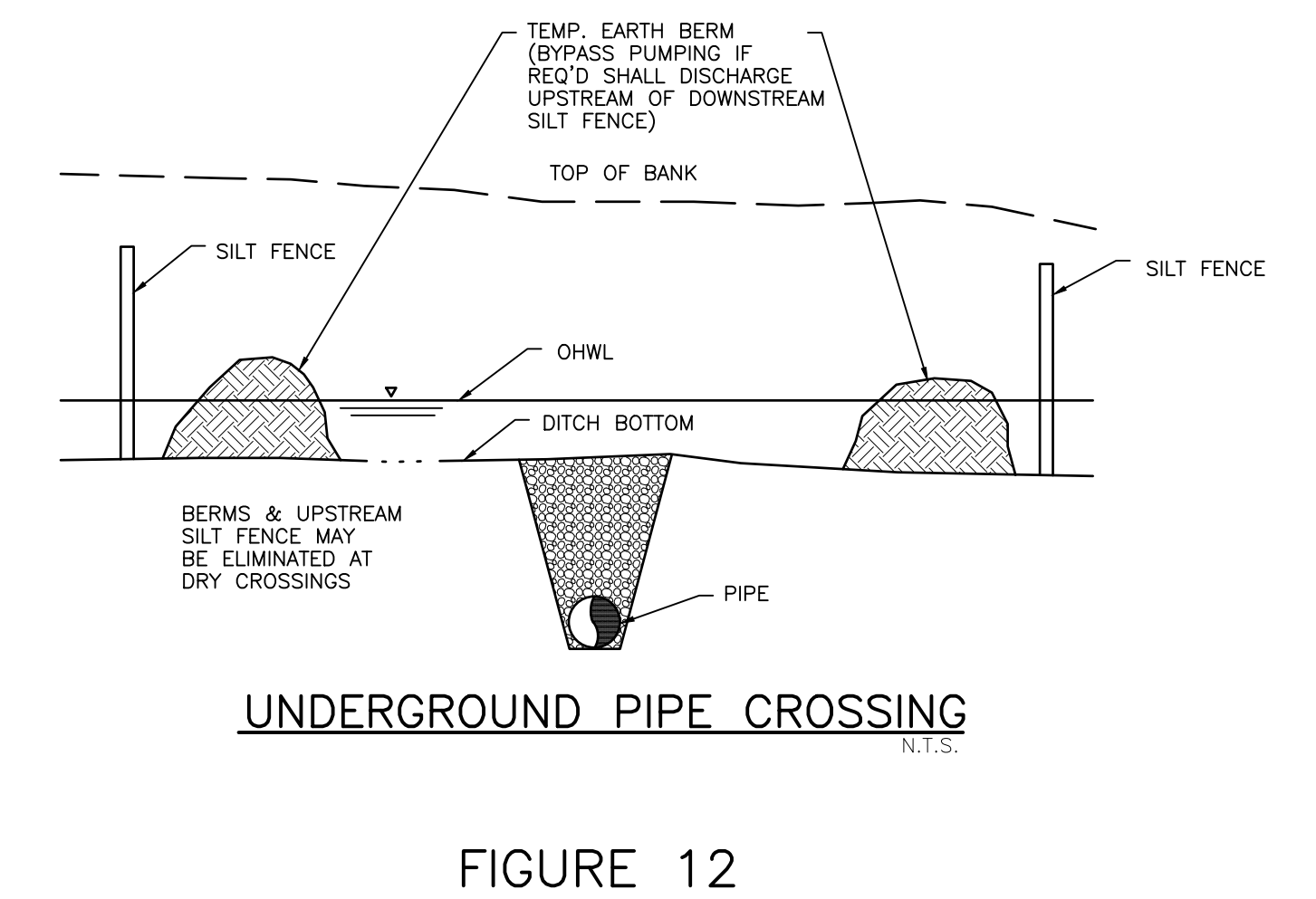
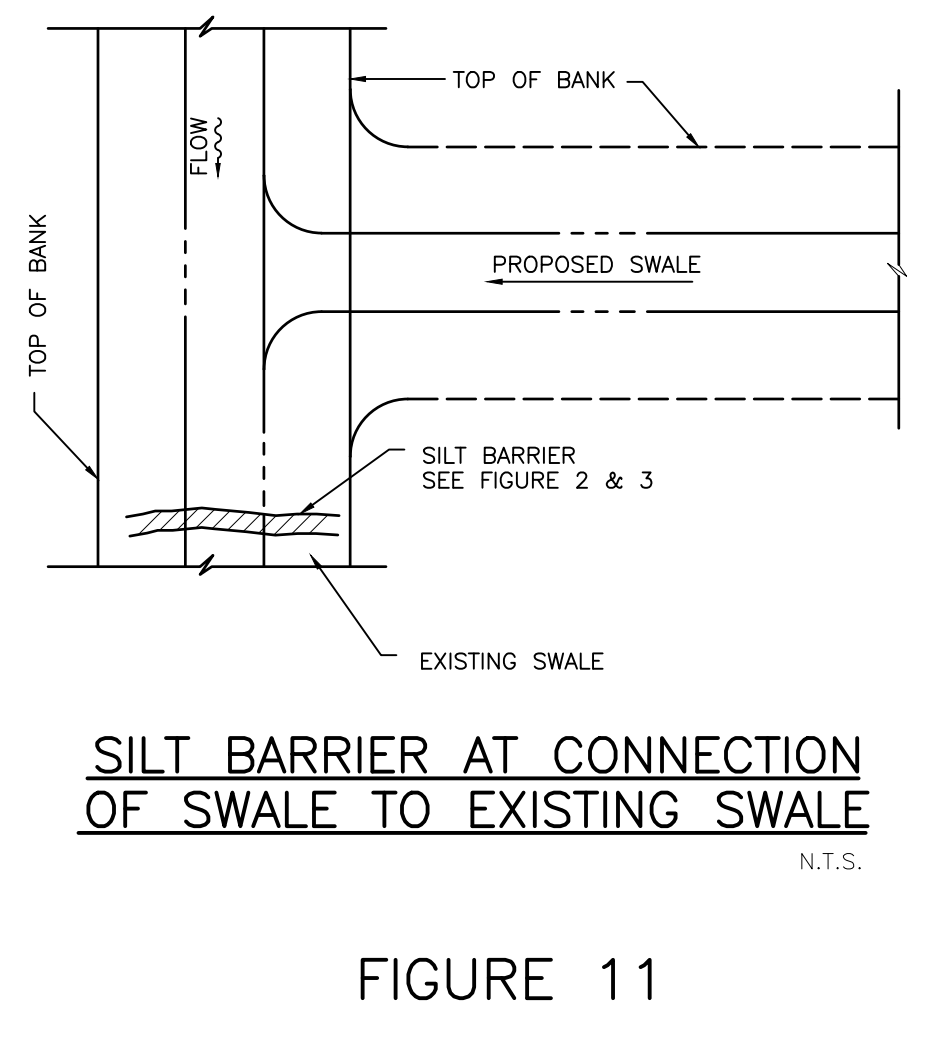
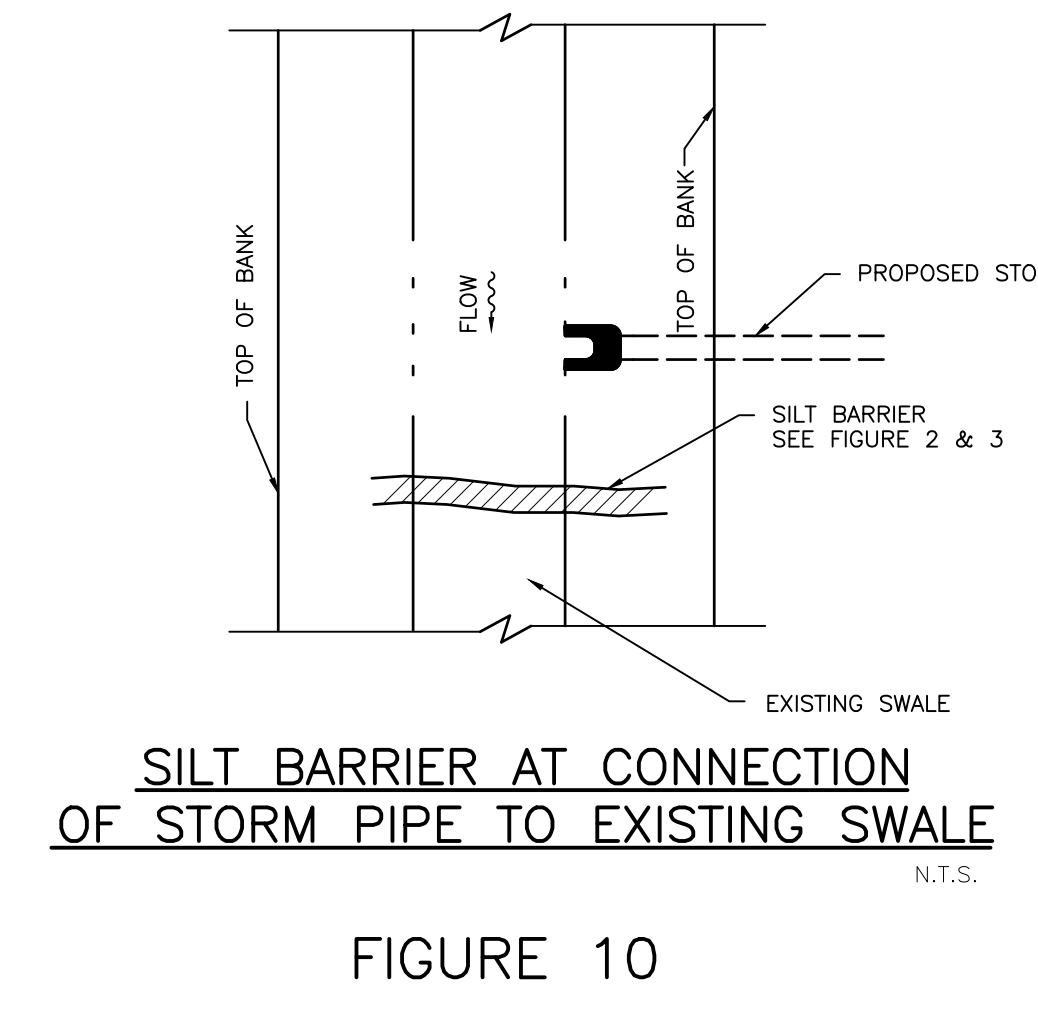
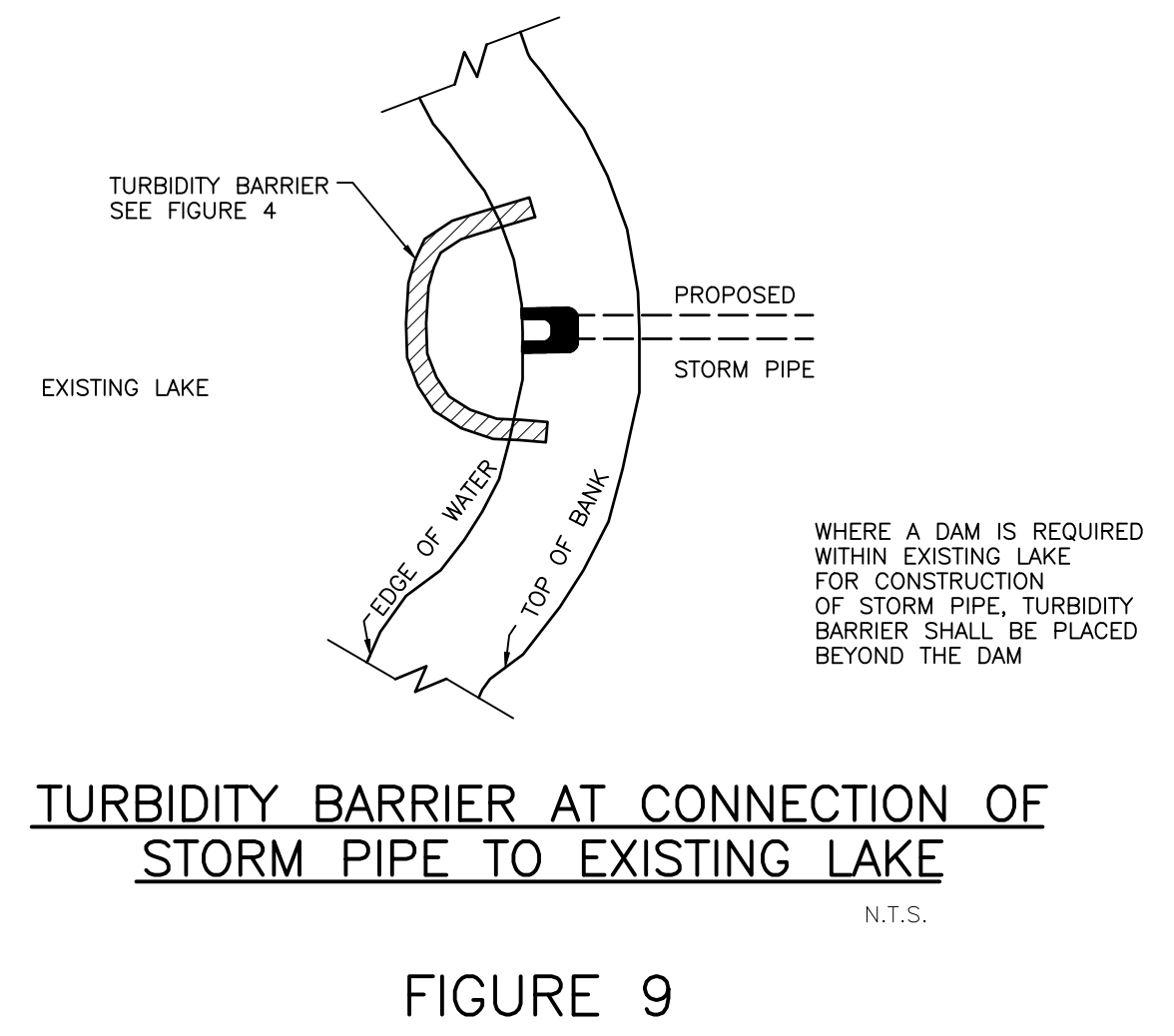
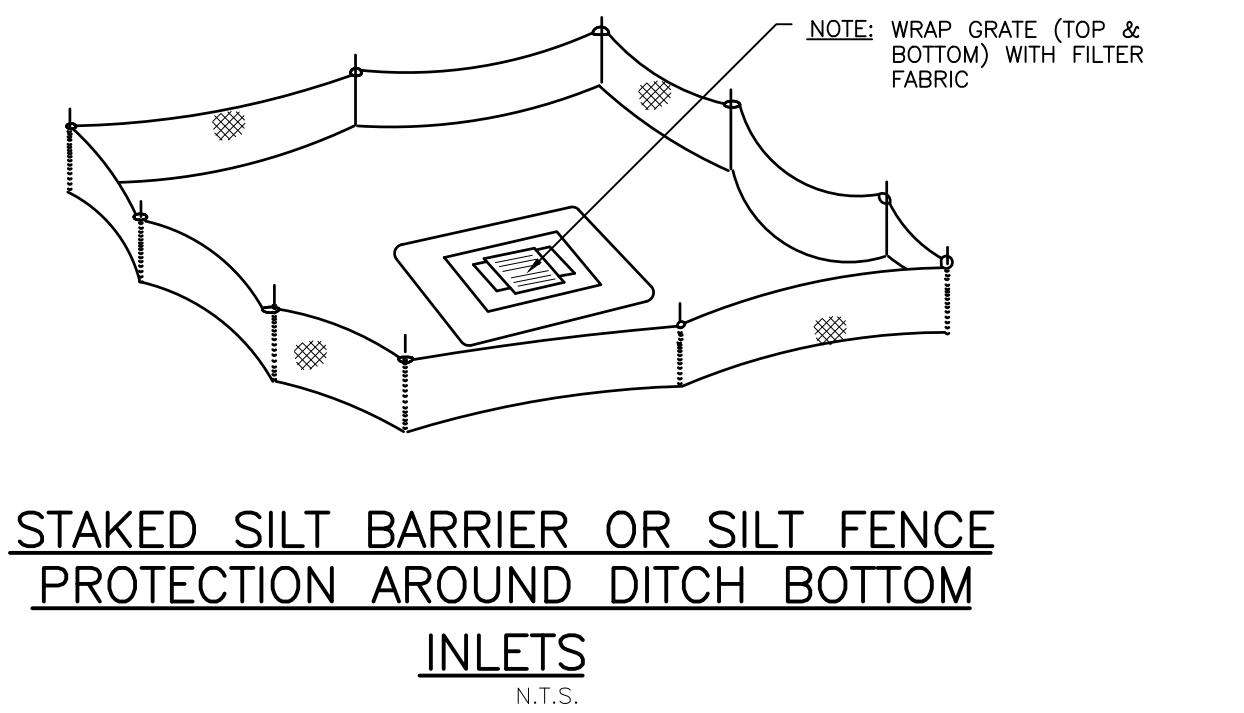
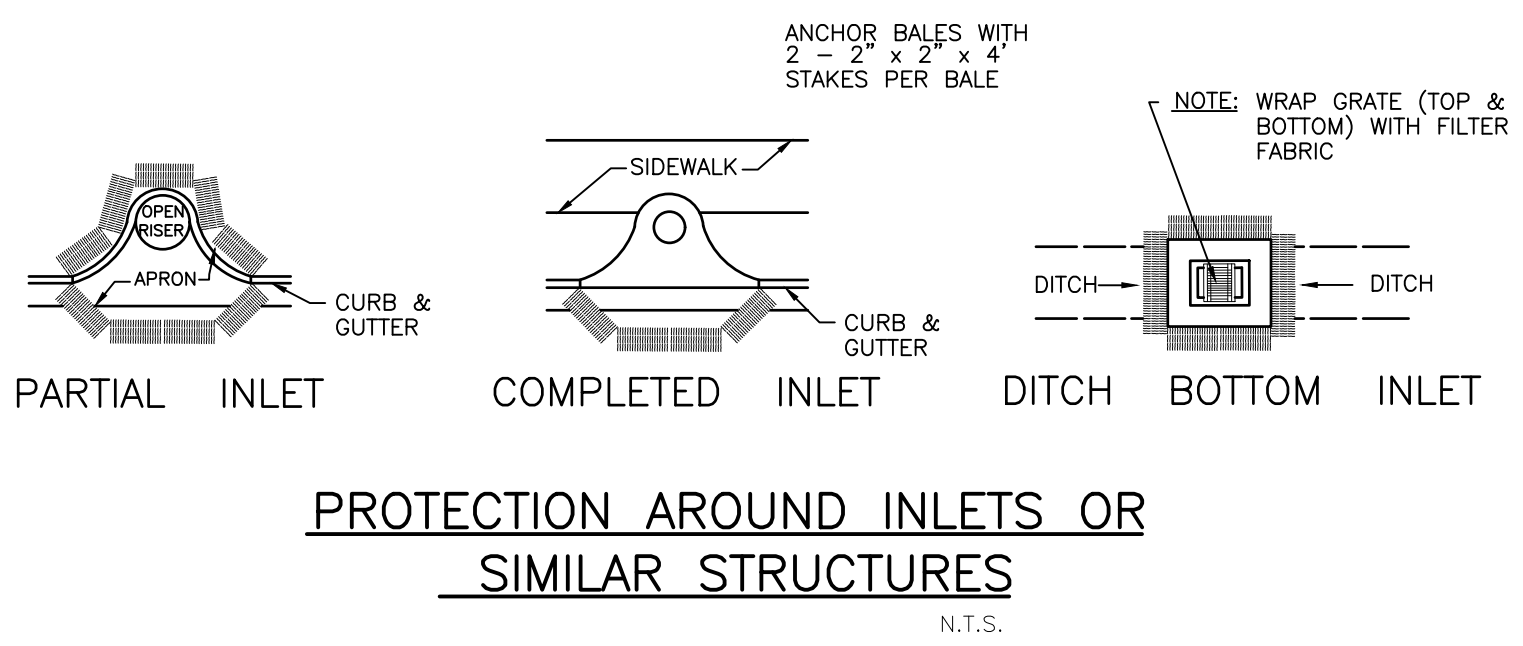
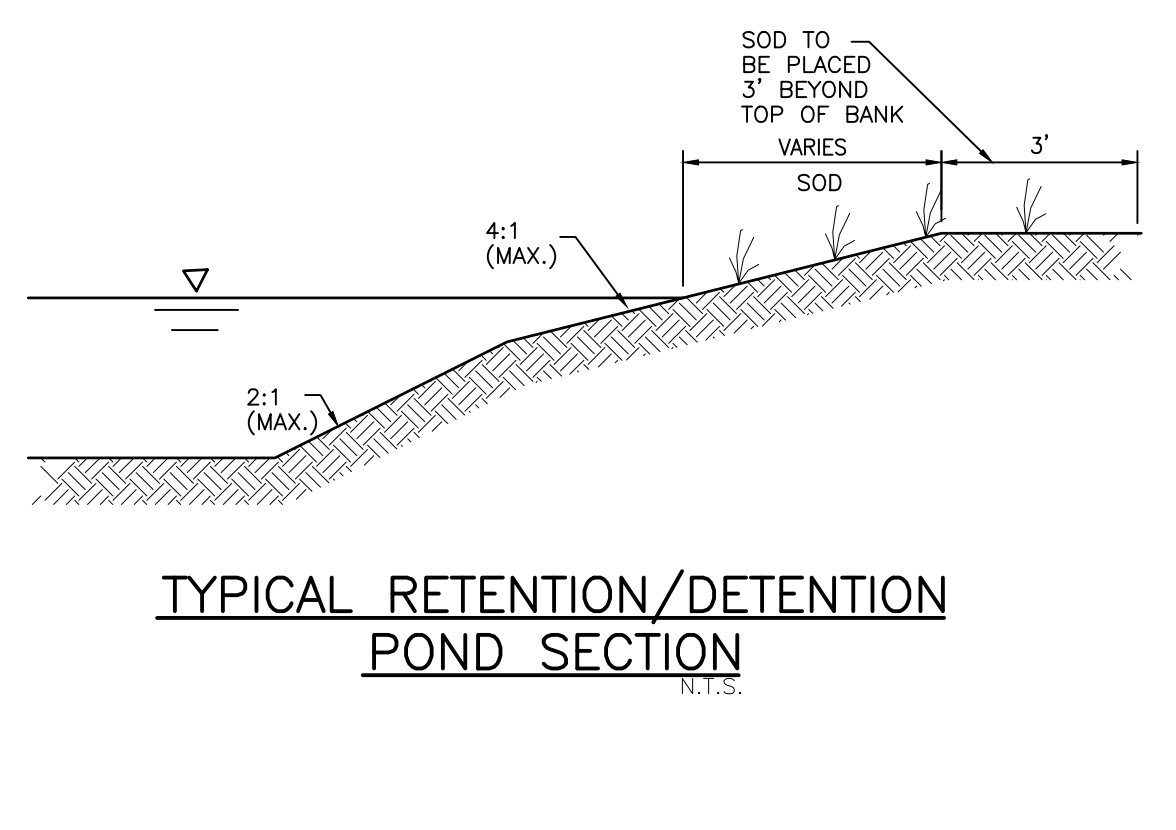
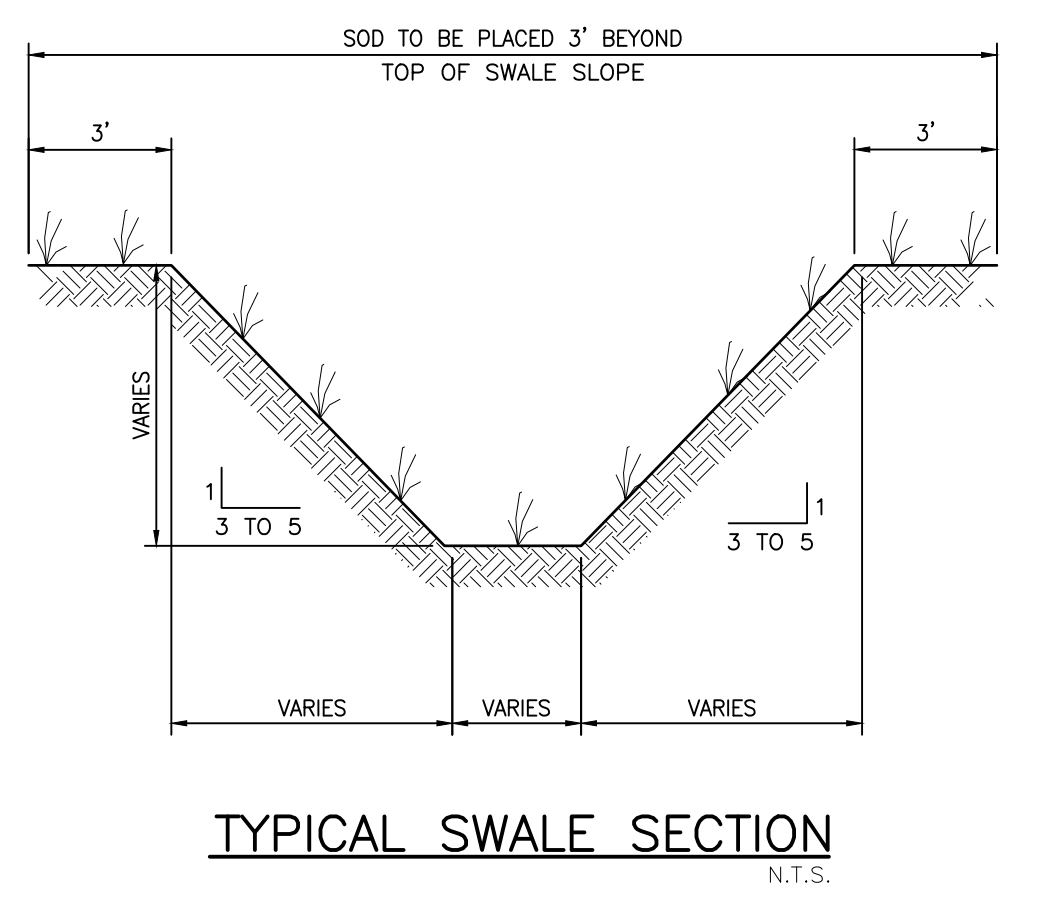
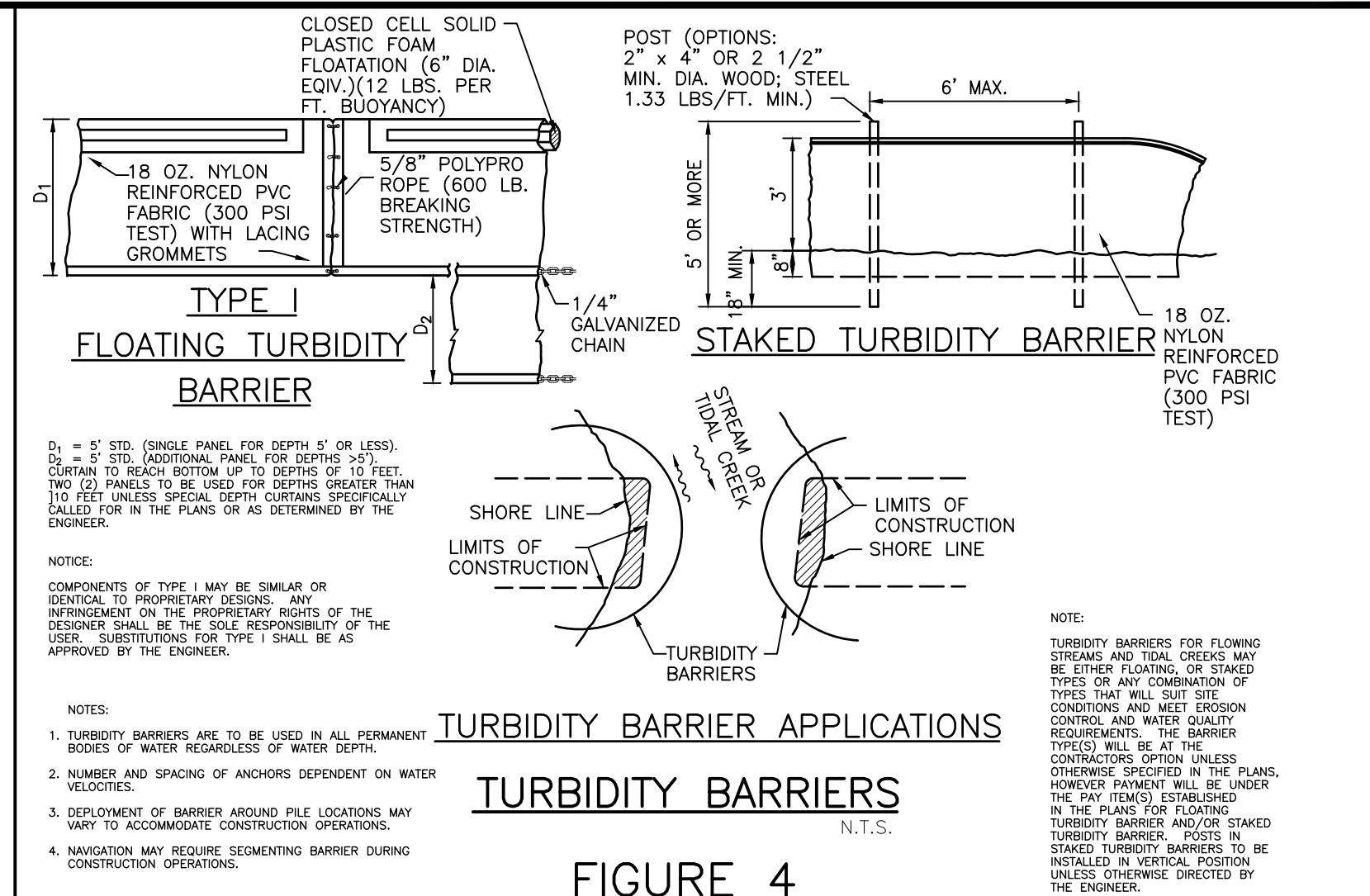
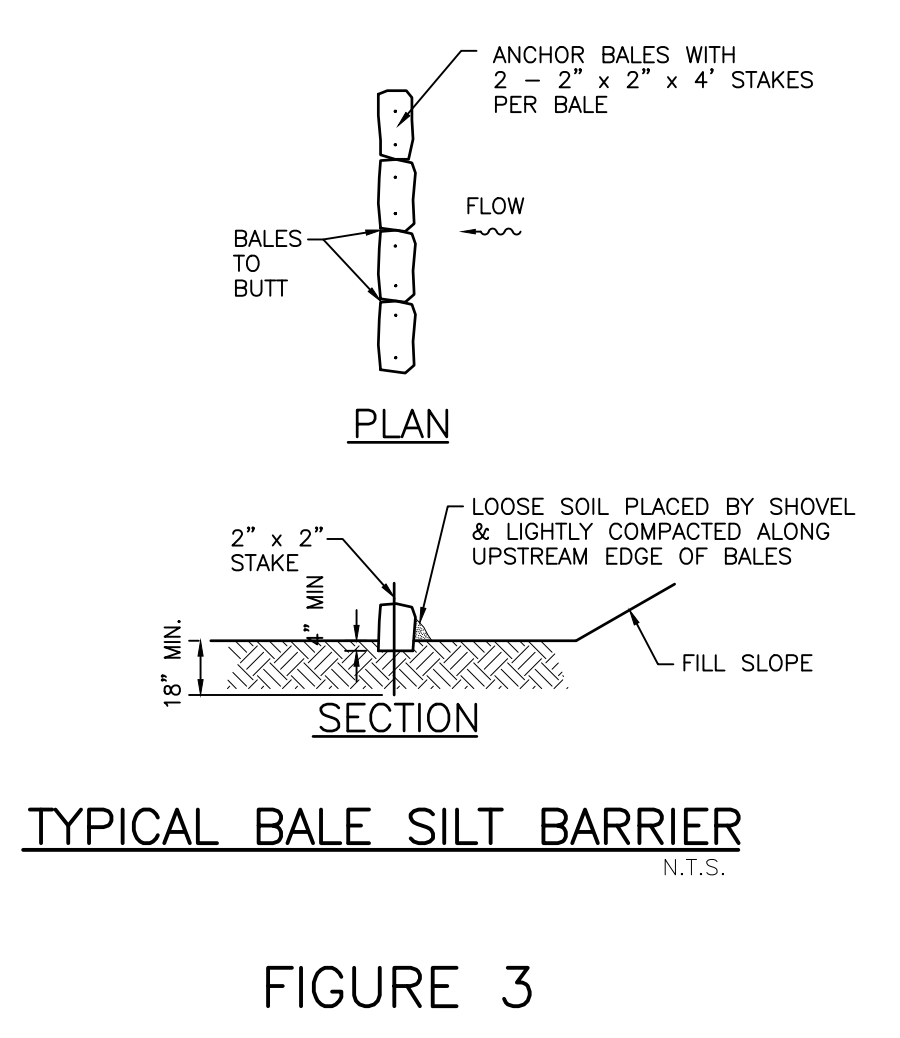
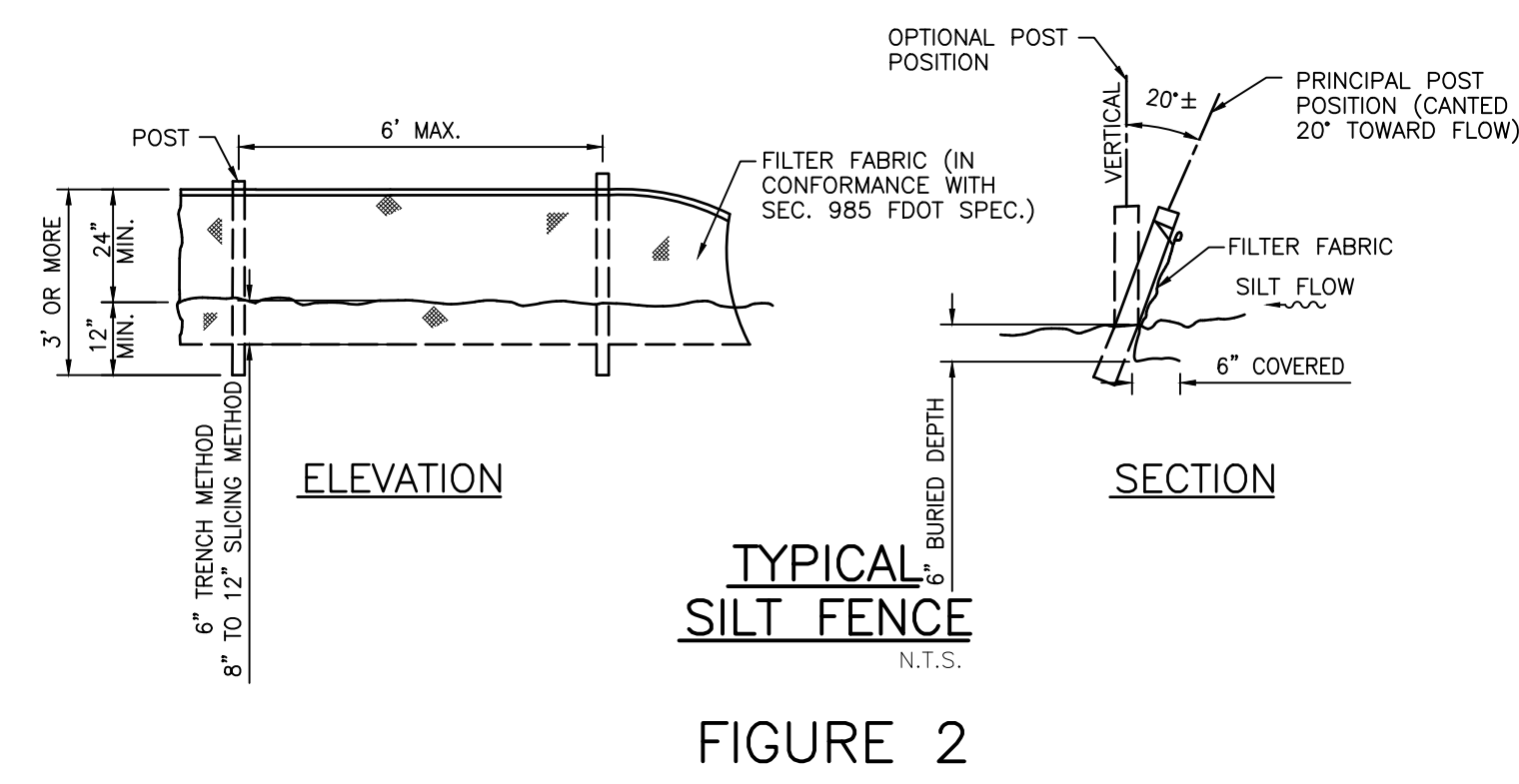
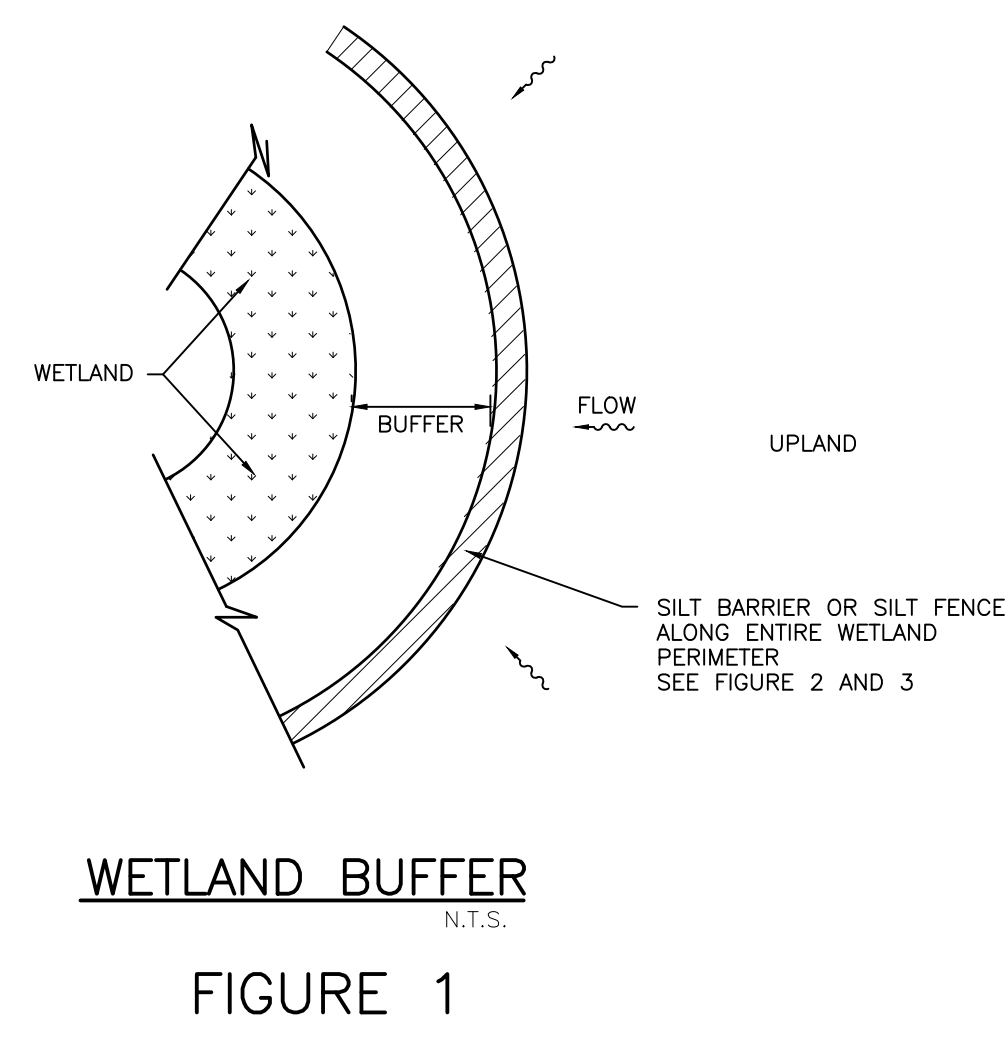
OWNER/APPLICANT SIGNATURE _____ DATE _____
 OWNER _____
 TITLE _____
 COMPANY _____



CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		DATE: 10/2020 HORIZONTAL SCALE: 1" = 250' VERTICAL SCALE: AS SHOWN		TITLE: BEST MANAGEMENT PRACTICES PLAN PROJECT NUMBER: 215615900 SHEET NUMBER: 93 OF 112	
DESIGNED BY: _____ DATE: 10/2020 DRAWN BY: _____ DATE: 10/2020		CHECKED BY: _____ CONTRACT ADMIN. BY: _____ WM APPROVED BY: _____		ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 21565900-01C-701EC	
C REVISED SILT FENCE DATE: 11/5/21 DRAWN BY / EMP. NO.: MSC/98616	CHECKED BY / EMP. NO.: _____ DATE: _____	DESIGNED BY / EMP. NO.: _____ DATE: _____	DRAWN BY / EMP. NO.: _____ DATE: _____	CHECKED BY / EMP. NO.: _____ DATE: _____	DATE: 10/2020 HORIZONTAL SCALE: 1" = 250' VERTICAL SCALE: AS SHOWN SHEET NUMBER: 93 OF 112



The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing. Any errors or omissions shall be reported to Stantec, without delay. Copyrights to all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.



CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE _____ DATE _____

OWNER: _____

TITLE: _____

COMPANY: _____

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS (102 SERIES), THE CURRENT EDITION OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AND THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THIS TRAFFIC CONTROL PLAN IS BASED ON DESIGN STANDARD PLAN 102-602, 102-615, AND 102-660. THE CONTRACTOR SHOULD BE FAMILIAR WITH THESE INDEXES AND REFER TO THEM FOR ADDITIONAL INFORMATION AND CLARIFICATION.

*IN CASE OF DISCREPANCY BETWEEN THESE NOTES AND THE FDOT OR MUTCD PUBLICATIONS, THE FDOT PUBLICATIONS SHALL GOVERN.

2. THE WORK SHALL BE COMPLETED IN TWO PHASES.

PHASE 1 SHALL CONSIST OF CONSTRUCTING THE NEW EASTBOUND LANES OF MOCCASIN WALLOW ROAD ON THE SOUTH SIDE OF THE RIGHT-OF-WAY WHILE MAINTAINING THE EXISTING LANES ON MOCCASIN WALLOW ROAD FOR EXISTING TRAFFIC. THIS IS BASED ON FDOT DESIGN STANDARD PLAN NO. 102-602.

PHASE 2 SHALL CONSIST OF CONSTRUCTING THE NEW WESTBOUND LANES OF MOCCASIN WALLOW ROAD ON THE NORTH SIDE OF THE RIGHT-OF-WAY WHILE USING THE NEW LANES CONSTRUCTED ON MOCCASIN WALLOW ROAD IN PHASE 1 AS THE FUTURE EASTBOUND LANES FOR EXISTING TRAFFIC. THIS IS BASED ON FDOT DESIGN STANDARD PLAN NO. 102-602.

TRAFFIC CONTROL FOR THE INTERSECTIONS AT 115TH-GRAND RIVER AND AT FT. HAMER ARE BASED UPON FDOT DESIGN STANDARD PLANS 102-615. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR IS REQUIRED TO SUBMIT A TRAFFIC CONTROL SUB-PHASING PLAN FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION TO ADDRESS THE PROPOSED GRADE DIFFERENCE IN THE ROADWAY DESIGN.

CONTRACTOR TO FURNISH AND INSTALL TEMPORARY TRAFFIC SIGNALS AT THE MOCCASIN WALLOW ROAD/115TH STREET AND MOCCASIN WALLOW ROAD/FORT HAMER ROAD INTERSECTIONS. SHOP DRAWINGS AND TIMING PLANS ARE TO BE SUBMITTED TO THE ENGINEER AND MANATEE COUNTY TRAFFIC OPERATIONS PRIOR TO COMMENCING EACH PHASE OF THE TEMPORARY TRAFFIC CONTROL.

3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, THE FHP, MANATEE COUNTY SHERIFF'S OFFICE, AND THE LOCAL FIRE, RESCUE, AND AMBULANCE SERVICES A MINIMUM OF 14 DAYS IN ADVANCE OF ANY LANE CLOSURE OR DETOUR.

4. THE REGULATORY SPEED LIMIT FOR MOCCASIN WALLOW ROAD IS 45 MPH.

5. LANE CLOSINGS SHALL OCCUR ONLY DURING NON-PEAK HOURS. PEAK HOURS ARE FROM 7:00 AM TO 9:30 AM AND 4:00 PM TO 6:30 PM.

6. LANE CLOSURES SHALL BE REMOVED, AND ALL LANES SHALL BE OPEN WITHIN 48 HOURS UPON RECEIPT OF AN EMERGENCY NOTICE BEING ISSUED. ALL LANES MUST REMAIN OPEN TO TRAFFIC DURING AN EVACUATION NOTICE OR OTHER EMERGENCY EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EMERGENCY EVENT OR UNTIL DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL, AT THE DISCRETION OF THE ENGINEER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.

8. THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS AND SHALL REMOVE ANY EXISTING, TEMPORARY, OR REMOVABLE MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS OR PAVEMENT MARKINGS TO THEIR ORIGINAL CONDITIONS OR PROPOSED POSITION FOR THE NEXT PHASE. REMOVAL OF EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS WHICH ARE CONFLICTING OR MISLEADING SHALL BE ACCOMPLISHED BY MILLING AND/OR ASPHALT OVERLAY. USE OF PAINT (BLACK OR OTHER COLORS) TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS NOT ACCEPTABLE.

9. EXISTING SIGNS AND MARKINGS WHICH DO NOT CONFLICT WITH THE TRAFFIC CONTROL PLANS SHALL BE MAINTAINED UNTIL THEY NO LONGER FULFILL A NEED AS DETERMINED BY THE ENGINEER OR UNTIL THEY ARE REPLACED WITH NEW TRAFFIC CONTROL DEVICES.

10. CERTIFIED MAINTENANCE OF TRAFFIC (MOT) SUPERVISORS SHALL BE AVAILABLE TO THE PROJECT AT ALL TIMES WHEN THE CONTRACTOR IS WORKING AND SHALL BE ON CALL FOR EMERGENCIES WHEN THE CONTRACTOR IS NOT WORKING. ALL WORK SHALL CEASE WHEN THE MOT SUPERVISOR IS NOT IN CONTROL OF THE MOT.

11. IN THE EVENT OF A HURRICANE OR OTHER EVACUATION NEEDS, WHEN NOTIFIED BY THE ENGINEER, COORDINATE THE SECURING OF ALL LOOSE MATERIAL, BACKFILL EXCAVATION, REMOVE OBSTRUCTIONS TO DRAINAGE AND WATER FLOW, AND ANY OTHER MEASURE REQUIRED BY THE ENGINEER.

DROP-OFFS AND GROUND OBSTRUCTIONS

12. FOR DROP-OFFS WITHIN THE RIGHT-OF-WAY, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD PLAN 102-600, SHEET 8 OF 11.

13. FOR GROUND OBSTRUCTIONS, INCLUDING INTERFACE BETWEEN UNEVEN PAVEMENTS SUBJECT TO VEHICULAR TRAFFIC AND/OR BARRIER PLACEMENT, CONSTRUCT ASPHALT APRON IN ACCORDANCE WITH STANDARD PLAN 102-600, SHEET 7 OF 11.

14. OPEN TRENCHES SHALL BE BACKFILLED AS SOON AS POSSIBLE WHERE PROPERTY ACCESS IS NOT AFFECTED. ALL TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING AT PROPERTY ACCESS POINTS BY THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. AS AN OPTION, PROPERLY ANCHORED VEHICULAR BEARING PLATES MAY BE INSTALLED TO PROVIDE SAFE CROSSINGS.

SIGNING AND MARKING:

15. TRAFFIC CONTROL SIGNS SHALL BE INSTALLED PER THE PROJECT PLANS AND MEET THE COLOR SCHEME SPECIFIED IN STANDARD PLANS AND THE MUTCD. ALTERNATE MEANS OF INSTALLING SIGNS, PAVEMENT MARKINGS AND RPM'S MUST BE REVIEWED AND APPROVED BY THE ENGINEER.

16. ALL SIGNAGE SHALL BE REMOVED OR COVERED AND ALL CHANNELIZING DEVICES SHALL BE REMOVED FROM THE ROADWAY AT THE END OF EACH WORK DAY.

PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:

17. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP-OFF ADJACENT TO PEDESTRIAN TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE TRAVEL PATH OR SHALL BE PROTECTED WITH BARRICADES, TEMPORARY BARRIER WALL, OR APPROVED HANDRAIL.

18. WHERE PEDESTRIAN PATHWAYS EXIST WITHIN THE PROJECT LIMITS, PEDESTRIAN, BICYCLES, AND WHEELCHAIR TRAFFIC SHALL BE MAINTAINED ON AT LEAST ONE SIDE OF THE PROJECT AT ALL TIMES. THE TRAVEL PATH SHALL BE A MINIMUM OF 5 FEET WIDE WITH A SMOOTH AND WATERPROOF SURFACE THAT IS NOT SLICKED AND SHOULD BE RAMPED AS NECESSARY FOR CONTINUITY. THE CONTRACTOR IS REFERRED TO STANDARD PLAN 102-660.

19. PEDESTRIANS, BICYCLES, AND WHEELCHAIR TRAFFIC SHALL BE GUIDED AND MAINTAINED USING APPROVED WARNING LIGHTS, SIGNING, AND CHANNELIZATION DEVICES. SUCH CONTROL DEVICES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE FDOT SPECIFICATIONS AND THE MUTCD SECTIONS ON WORK ZONE TRAFFIC CONTROL. ADA REQUIREMENTS MUST BE MAINTAINED.

20. CROSSWALKS AND PEDESTRIAN WALK ROUTES MAY BE ADJUSTED AS APPROVED BY THE ENGINEER TO FACILITATE CONSTRUCTION.

21. THE CONTRACTOR SHALL MAINTAIN SAFE SCHOOL, PEDESTRIAN WALK ROUTES AND BUS STOPS IN ALL PHASES OF CONSTRUCTION CONSISTENT WITH THOSE EXISTING PRIOR TO COMMENCEMENT OF CONSTRUCTION.

DEFINITIONS

Regulatory Speed (In Work Zones)

The maximum permitted travel speed posted for the work zone is indicated by the regulatory speed limit signs. The work zone speed must be shown or noted in the plans. This speed should be used as the minimum design speed to determine runoff lengths, departure rates, flare rates, lengths of need, clear zone widths, taper lengths, crash cushion requirements, marker spacings, superelevation and other similar features.

Advisory Speed

The maximum recommended travel speed through a curve or a hazardous area.

Travel Way

The portion of the roadway for the movement of vehicles. For traffic control through work zones, travel way may include the temporary use of shoulders and any other permanent or temporary surface intended for use as a lane for the movement of vehicular traffic.

- a. **Travel Lane:** The designated widths of roadway pavement marked to carry through traffic and to separate it from opposing traffic or traffic occupying other traffic lanes.
- b. **Auxiliary Lane:** The designated widths of roadway pavement marked to separate speed change, turning, passing and climbing maneuvers from through traffic.

Detour, Lane Shift, and Diversion

A detour is the redirection of traffic onto another roadway to bypass the temporary traffic control zone. A lane shift is the redirection of traffic onto a different section of the permanent pavement. A diversion is the redirection of traffic onto a temporary roadway, usually adjacent to the permanent roadway and within the limits of the right of way.

Aboveground Hazard

An aboveground hazard is any object, material or equipment other than traffic control devices that encroaches upon the travel way or that is located within the clear zone which does not meet the Department's safety criteria, i.e., anything that is greater than 4" in height and is firm and unyielding or doesn't meet breakaway requirements.

TEMPORARY TRAFFIC CONTROL DEVICES

All temporary traffic control devices shall be ON the Department's Approved Products List (APL). Ensure the appropriate APL number is permanently marked on the device in a readily visible location.

All temporary traffic control devices shall be removed as soon as practical when they are no longer needed. When work is suspended for short periods of time, temporary traffic control devices that are no longer appropriate shall be removed or covered.

Arrow Boards, Portable Changeable Message Signs, Radar Speed Display Trailer, Portable Regulatory Signs, and any other trailer mounted device shall be delineated with a channelizing device placed at each corner when in use and shall be moved outside the travel way and clear zone or be shielded by a barrier or crash cushion when not in use.

PEDESTRIAN AND BICYCLIST

When an existing pedestrian way or bicycle way is located within a traffic control work zone, accommodation must be maintained and provision for the disabled must be provided.

Only approved pedestrian longitudinal channelizing devices may be used to delineate a temporary traffic control zone pedestrian walkway.

Advanced notification of sidewalk closures and marked detours shall be provided by appropriate signs.

OVERHEAD WORK

Work is only allowed over a traffic lane when one of the following options is used:

OPTION 1 (OVERHEAD WORK USING A MODIFIED LANE CLOSURE)

Overhead work using a modified lane closure is allowed if all of the following conditions are met:

- a. Work operation is located in a signalized intersection and limited to signals, signs, lighting and utilities.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- e. Aerial lift equipment is placed directly below the work area to close the lane.
- f. Traffic control devices are placed in advance of the vehicle/equipment closing the lane using a minimum 100 foot taper.
- g. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.

OPTION 2 (OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)

Overhead work above an open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 60 minutes or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within an area bounded by 2 feet outside the edge of travel way and 18 feet high.
- e. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- f. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- g. Adequate precautions are taken to prevent parts, tools, equipment and other objects from falling into open lanes of traffic.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OPTION 3 (OVERHEAD WORK ADJACENT TO AN OPEN TRAFFIC LANE)

Overhead work adjacent to an open traffic lane is allowed if all of the following conditions are met:

- a. Work operation is located on a utility pole, light pole, signal pole, or their appurtenances.
- b. Work operations are 1 day or less.
- c. Speed limit is 45 mph or less.
- d. No encroachment by any part of the work activities and equipment within 2 feet from the edge of travel way up to 18' height.
- e. Above 18' in height, no encroachment by any part of the work activities and equipment over the open traffic lane (except as allowed in Option 2 for work operations of 60 minutes or less).
- f. Aerial lift equipment in the work area has high-intensity, rotating, flashing, oscillating, or strobe lights operating.
- g. Volume or complexity of the roadway may dictate additional devices, signs, flagmen and/or a traffic control officer.
- h. Other Governmental Agencies, Rail facilities, or Codes may require a greater clearance. The greater clearance required prevails as the rule.

OPTION 4 (OVERHEAD WORK MAINTAINING TRAFFIC WITH NO ENCROACHMENT BELOW THE OVERHEAD WORK AREA)

Traffic shall be detoured, shifted, diverted or paced as to not encroach in the area directly below the overhead work operations in accordance with the appropriate index drawing or detailed in the plans. This option applies to, but not limited to, the following construction activities:

- a. Beam, girder, segment, and bent/pier cap placement.
- b. Form and falsework placement and removal.
- c. Concrete placement.
- d. Railing construction located at edge of deck.
- e. Structure demolition.

OPTION 5 (CONDUCTOR/CABLE PULLING ABOVE AN OPEN TRAFFIC LANE)

Overhead cable and/or de-energized conductor installations initial pull to proper tension shall be done in accordance with the appropriate Index or temporary traffic control plan.

Continuous pulling operations of secured cable and/or conductors are allowed over open lane(s) of traffic with no encroachment by any part of the work activities, materials or equipment within the minimal vertical clearance above the travel way. The utility shall take precautions to ensure that pull ropes and conductors/cables at no time fall below the minimum vertical clearance.

On Limited Access facilities, a site specific temporary traffic control plan is required. The temporary traffic control plan shall include:

- a. The temporary traffic control set up for the initial pulling of the pull rope across the roadway.
- b. During pulling operations, advance warning consisting of no less than a Changeable Message Sign upstream of the work area with alternating messages, "Overhead Work Ahead" and "Be Prepared to Stop" followed by a traffic control officer and police vehicle with blue lights flashing during the pulling operation.

RAILROADS

Railroad crossings affected by a construction project should be evaluated for traffic controls to reduce queuing on the tracks. The evaluation should include as a minimum: traffic volumes, distance from the tracks to the intersections, lane closure or taper locations, signal timing, etc.

SIGHT DISTANCE

Tapers: Transition tapers should be obvious to drivers. If restricted sight distance is a problem (e.g., a sharp vertical or horizontal curve), the taper should begin well in advance of the view obstruction. The beginning of tapers should not be hidden behind curves.

Intersections: Traffic control devices at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely. Construction equipment and materials shall not restrict intersection sight distance.

ABOVEGROUND HAZARD

Aboveground hazards (see definitions) are to be considered work areas during working hours and treated with appropriate work zone traffic control procedures. During nonworking hours, all objects, materials and equipment that constitute an aboveground hazard must be stored/placed outside the travel way and clear zone or be shielded by a barrier or crash cushion.

For aboveground hazards within a work zone the clear zone required should be based on the regulatory speed posted during construction.

INDEX 102-600
SHEET #2 OF 12

DATE: 10/2020	TITLE: TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602
HORIZONTAL SCALE: 1" = 30'	PROJECT NUMBER: 215615900	INDEX NUMBER: 21565900-01C-601TC
VERTICAL SCALE: 1" = 3'	CROSS REFERENCE FILE NO.:	SHEET NUMBER: 95 OF 112
<p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>		
CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT	PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1	

CLEAR ZONE WIDTHS FOR WORK ZONES

The term 'clear zone' describes the unobstructed relatively flat area, impacted by construction, extending outward from the edge of the traffic lane. The table below gives clear zone widths in work zones for medians and roadside conditions other than for roadside canals; where roadside canals are present, clear zone widths are to conform with the distances to canals as described in the FDOT Design Manual 215.2.

CLEAR ZONE WIDTHS FOR WORK ZONES		
WORK ZONE SPEED (MPH)	TRAVEL LANES & MULTILANE RAMPS (feet)	AUXILIARY LANES & SINGLE LANE RAMPS (feet)
60-70	30	18
55	24	14
45-50	18	10
30-40	14	10
ALL SPEEDS CURB & GUTTER	4' BEHIND FACE OF CURB	4' BEHIND FACE OF CURB

SUPERELEVATION

Horizontal curves constructed in conjunction with work zone traffic control should have the required superelevation applied to the design radii. Under conditions where normal crown controls curvature, the minimum radii that can be applied are listed in the table below.

MINIMUM RADII FOR NORMAL CROWN	
WORK ZONE POSTED SPEED	MINIMUM RADIUS
MPH	feet
70	4090
65	3130
60	2400
55	1840
50	1390
45	1080
40	820
35	610
30	430
Superelevate When Smaller Radii is Used	

LENGTH OF LANE CLOSURES

For interstates and state highways with a posted speed of 55MPH or greater, lane closures must not exceed 3 miles (includes taper, buffer, and work zone) in any given direction and must not close two consecutive interchanges.

OVERWEIGHT/OVERSIZE VEHICLES

Restrictions to Lane Widths, Heights or Load Capacity can greatly impact the movement of over dimensioned loads. The Contractor shall notify the Engineer who in turn shall notify the State Permits Office, phone no. (850) 410-5777, at least seven calendar days in advance of implementing a maintenance of traffic plan which will impact the flow of overweight/oversized vehicles. Information provided shall include location, type of restriction (height, width or weight) and restriction time frames. When the roadway is restored to normal service the State Permits Office shall be notified immediately.

LANE WIDTHS

Lane widths of through roadways should be maintained through work zone travel ways wherever practical. The minimum widths for work zone travel lanes shall be as follows: 11' for Interstate with at least one 12' lane provided in each direction, unless formally excepted by the Federal Highway Administration; 11' for Freeways; and 10' for all other facilities.

HIGH-VISIBILITY SAFETY APPAREL

All high-visibility safety apparel shall meet the requirements of the International Safety Equipment Association (ISEA) and the American National Standards Institute (ANSI) for "High-Visibility Safety Apparel", and labeled as ANSI/ISEA 107-2004 or newer. The apparel background (outer) material color shall be either fluorescent orange-red or fluorescent yellow-green as defined by the standard. The retroreflective material shall be orange, yellow, white, silver, yellow-green, or a fluorescent version of these colors, and shall be visible at a minimum distance of 1,000 feet. Class 3 apparel may be substituted for Class 2 apparel. Replace apparel that is not visible at 1,000 feet.

WORKERS: All workers within the right-of-way shall wear ANSI/ISEA Class 2 apparel. Workers operating machinery or equipment in which loose clothing could become entangled during operation shall wear fitted high-visibility safety apparel. Workers inside the bucket of a bucket truck are not required to wear high-visibility safety apparel.

UTILITIES: When other industry apparel safety standards require utility workers to wear apparel that is inconsistent with FDOT requirements such as NFPA, OSHA, ANSI, etc., the other standards for apparel may prevail.

FLAGGERS: For daytime activities, Flaggers shall wear ANSI/ISEA Class 2 apparel. For nighttime activities, Flaggers shall wear ANSI/ISEA Class 3 apparel.

Lane closures must not exceed the following total lengths (includes taper, buffer space and work space) in any given direction on the interstate or on state highways with a posted speed of 55 MPH or greater:
 1. 3 miles for ground-in rumble strip operations on two-lane, two-way roadways.
 2. 2 miles for all other operations.

REGULATORY SPEEDS IN WORK ZONES

Traffic Control Plans (TCPs) for all projects must include specific regulatory speeds for each phase of work. This can either be the posted speed or a reduced speed. The speed shall be noted in the TCPs; this includes indicating the existing speed if no reduction is to be made. Regulatory speeds are to be uniformly established through each phase.

In general, the regulatory speed should be established to route vehicles safely through the work zone as close as to normal highway speed as possible. The regulatory speed should not be reduced more than 10 mph below the posted speed and never below the minimum statutory speed for the class of facility. When a speed reduction greater than 10 mph is imposed, the reduction is to be done in 10 mph per 500' increments.

Temporary regulatory speed signs shall be removed as soon as the conditions requiring the reduced speed no longer exist. Once the work zone regulatory speeds are removed, the regulatory speed existing prior to construction will automatically go back into effect unless new speed limit signing is provided for in the plans.

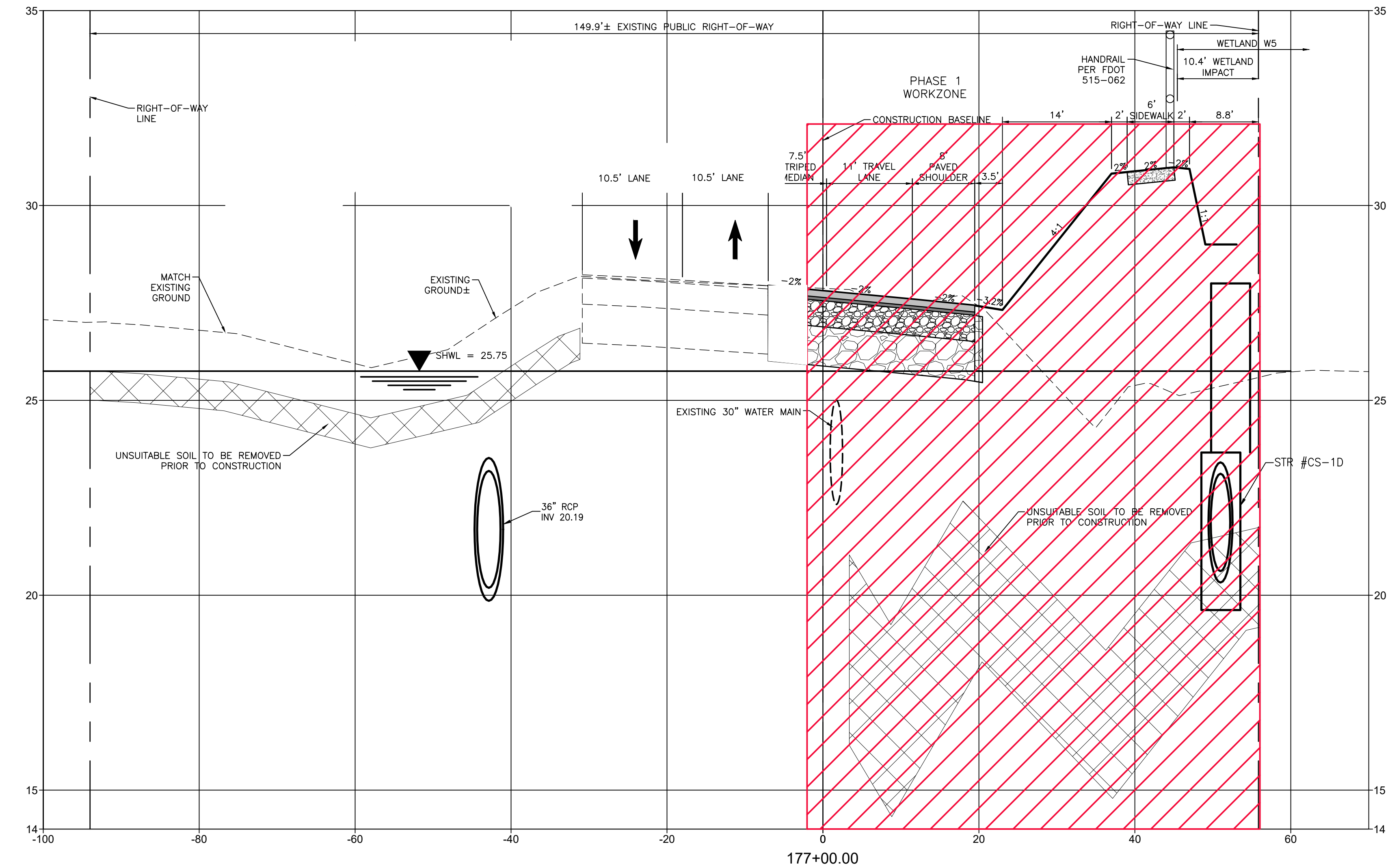
On projects with interspaced work activities, speed reductions should be located in proximity to those activities which merit a reduced speed, and not "blanketed" for the entire project. At the departure of such activities, the normal highway speed should be posted to give the motorist notice that normal speed can be resumed.

If the existing regulatory speed is to be used, consideration should be given to supplementing the existing signs when the construction work zone is between existing regulatory speed signs. For projects where the reduced speed conditions exist for greater than 1 mile in rural areas (non-interstate) and on rural or urban interstate, additional regulatory speed signs are to be placed at no more than 1 mile intervals. Engineering judgement should be used in placement of the additional signs. Locating these signs beyond ramp entrances and beyond major intersections are examples of proper placement. For urban situations (non-interstate), additional speed signs are to be placed at a maximum of 1000' apart.

When field conditions warrant speed reductions different from those shown in the TCP the contractor may submit to the project engineer for approval by the Department, a signed and sealed study to justify the need for further reducing the posted speed, or, the engineer may request the District Traffic Operations Engineer (DTOE) to investigate the need. It will not be necessary for the DTOE to issue regulations for regulatory speeds in work zones due to the revised provisions of F.S. 316.07451(2) (b). Advisory Speed plates will be used at the option of the field engineer for temporary use while processing a request to change the regulatory speed specified in the plans when deemed necessary. Advisory speed plates cannot be used alone but must be placed below the construction warning sign for which the advisory speed is required.

For additional information, refer to the Plans Preparation Manual, Volume 1, Chapter 10.

ACTIVITY	INITIALS/EMP. NO.	DATE	 <p>6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com</p>	CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE:	10/2020	TITLE:	TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602	
DESIGNED BY:		10/2020		PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1	HORIZONTAL SCALE:				INDEX NUMBER:	21565900-01C-6011C
DRAWN BY:		10/2020				VERTICAL SCALE:				SHEET NUMBER:	96 OF 112
CHECKED BY:						SEC:	19	IMP:	33S	19E	
CONTRACT ADMIN. BY:					CROSS REFERENCE FILE NO.:				PROJECT NUMBER:	215615900	
WM APPROVED BY:											



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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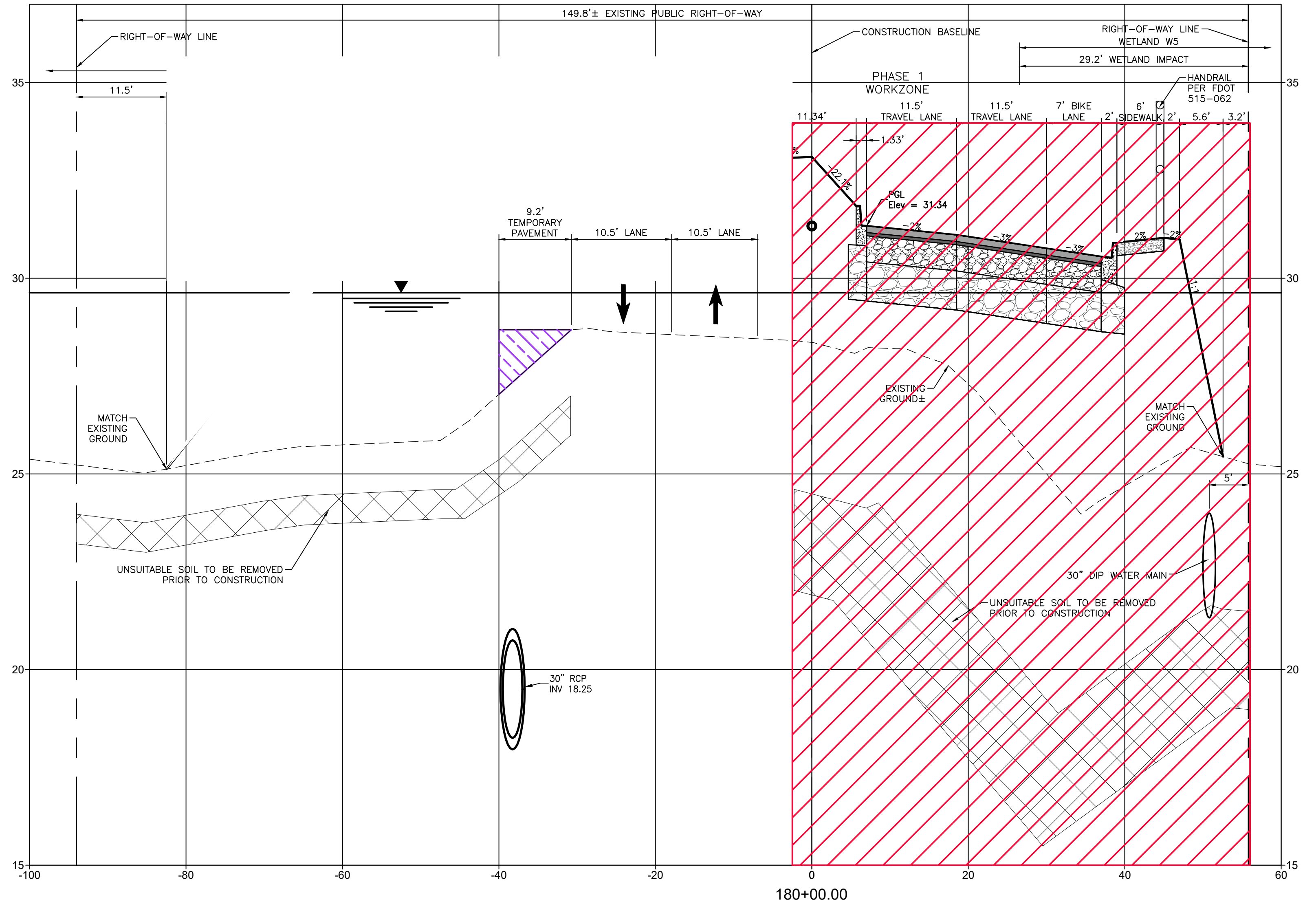
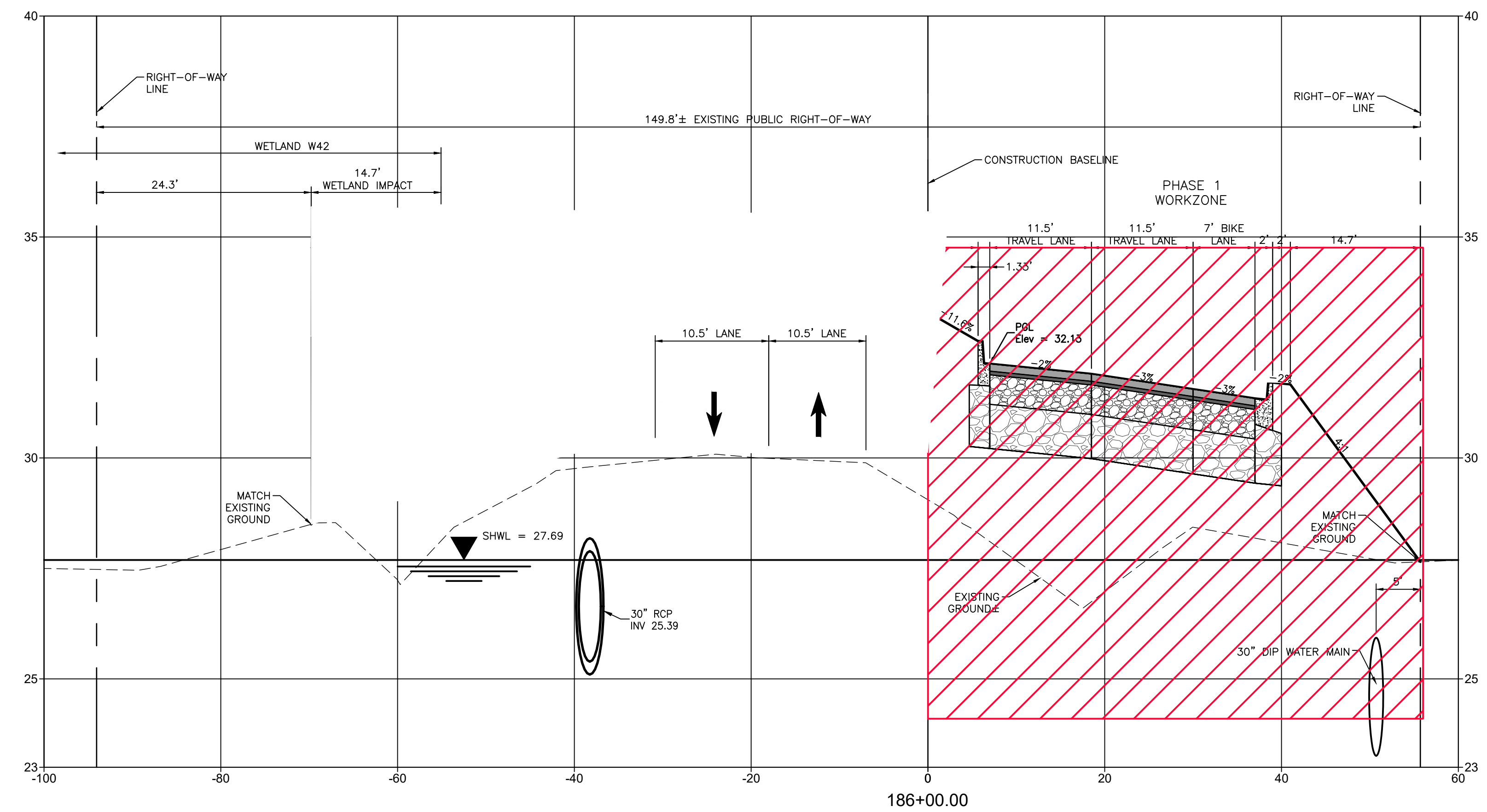
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 3.35' 19E

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 97 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC
 SHEET NUMBER: 97 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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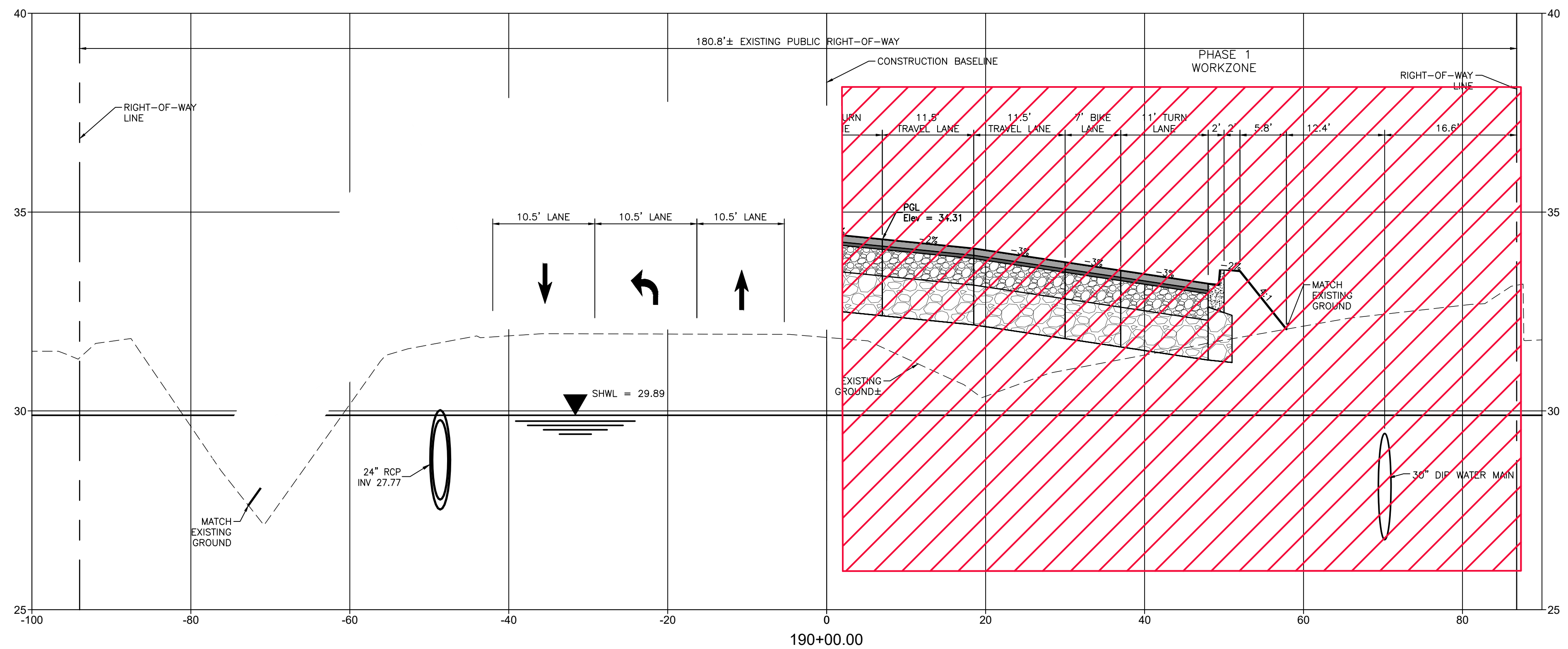
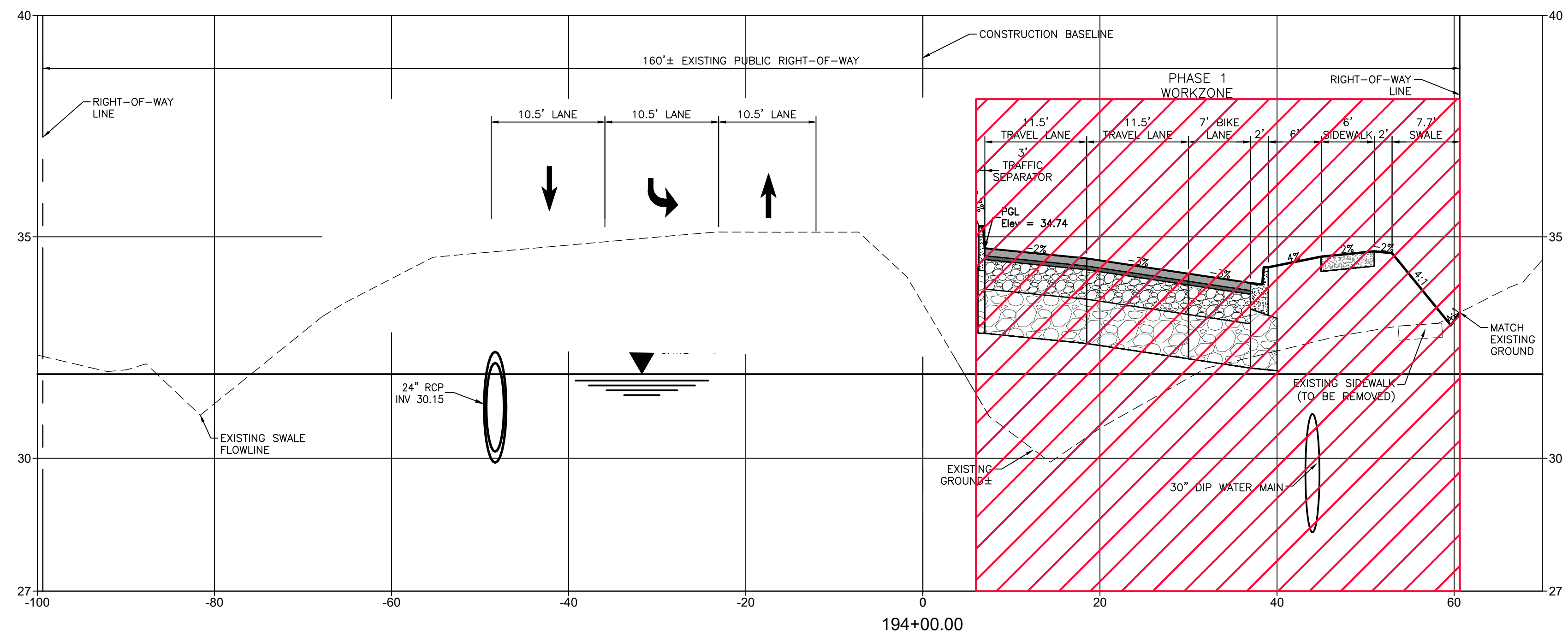
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 3.33' 19E

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 98 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC
 SHEET NUMBER: 98 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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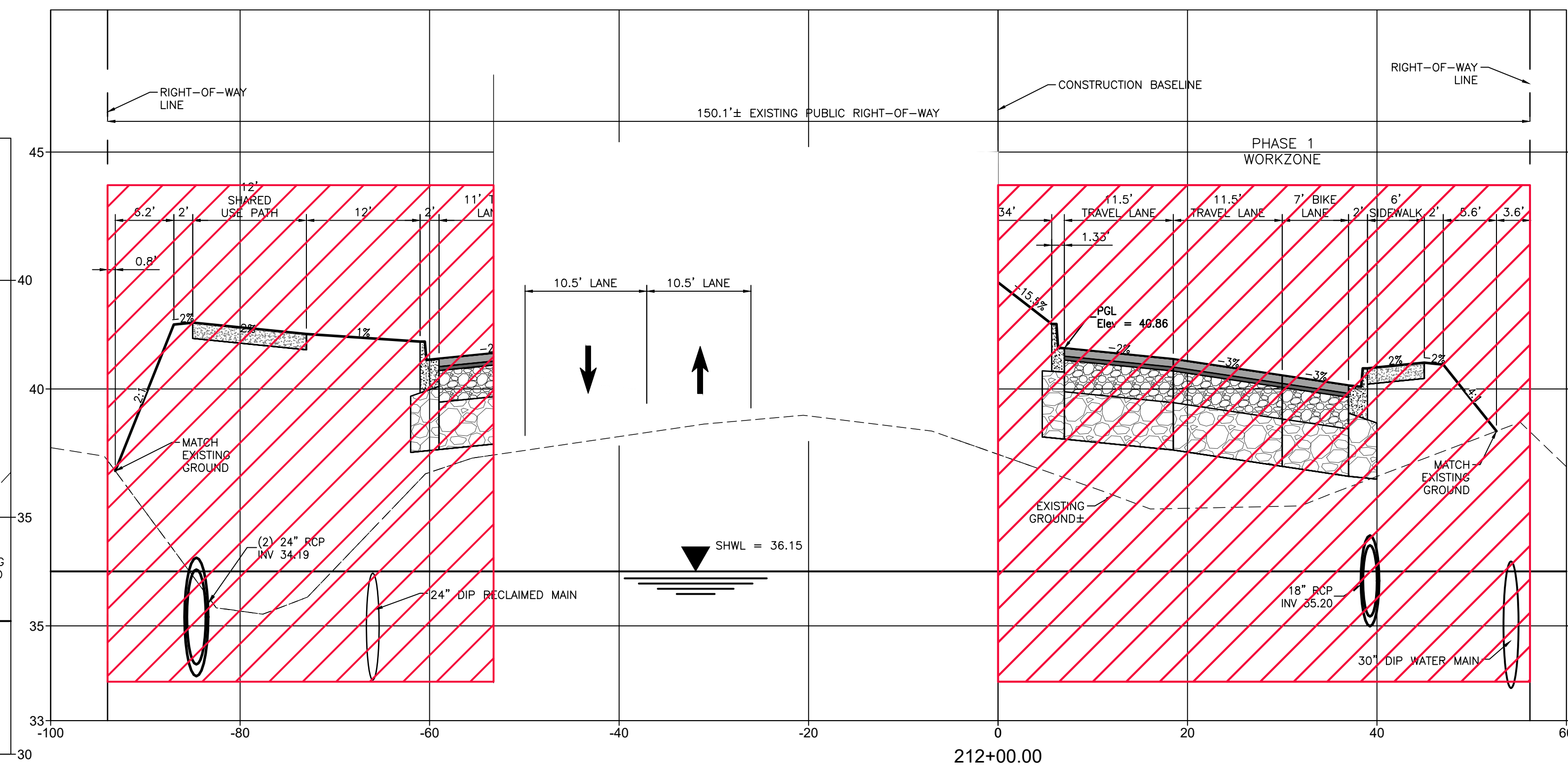
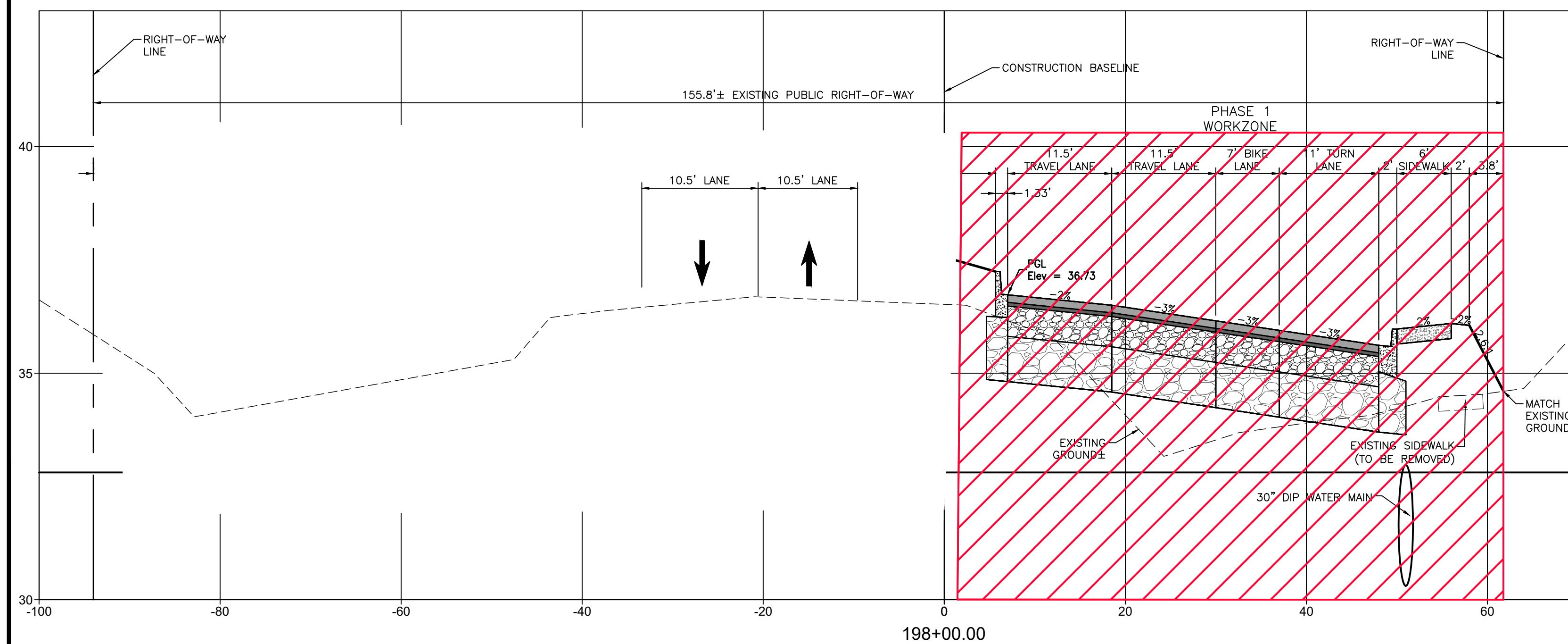
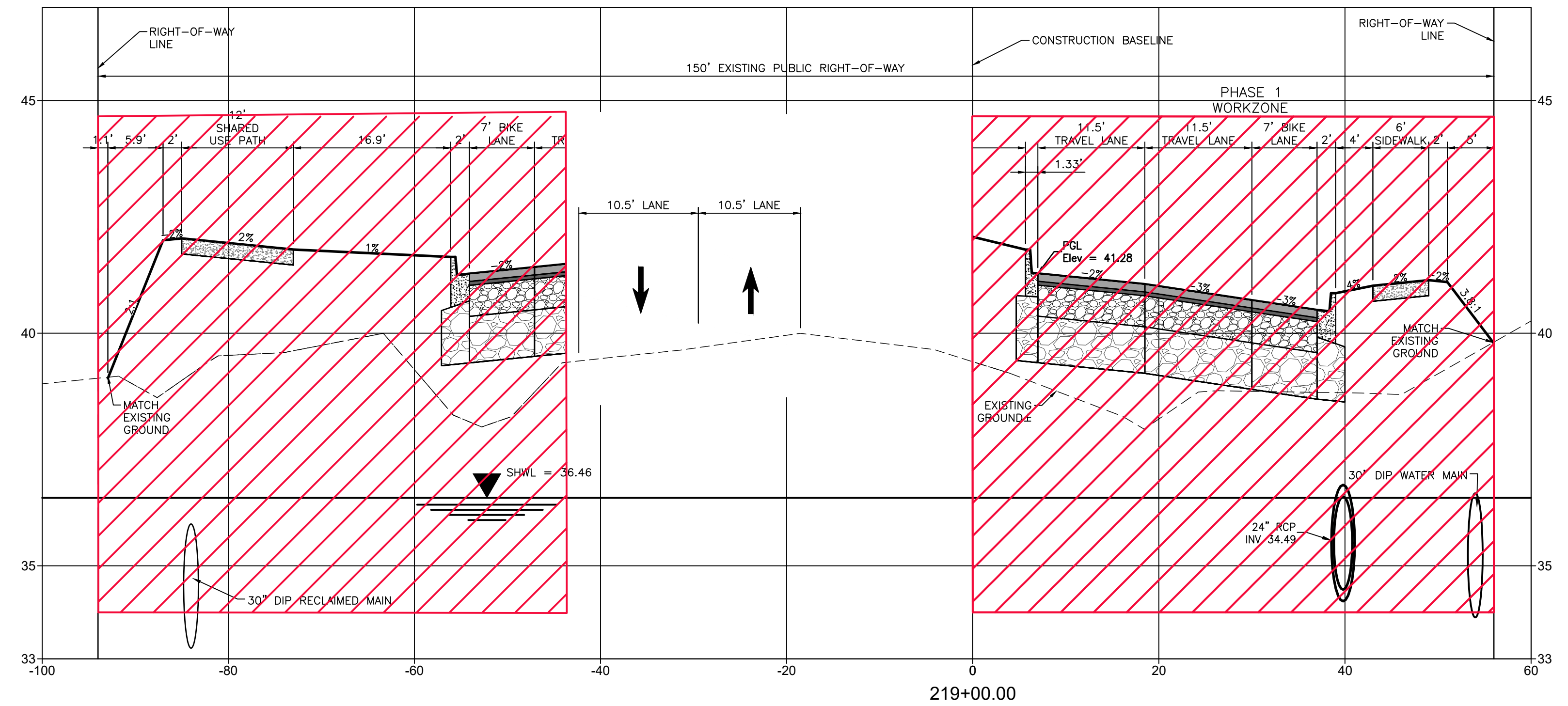
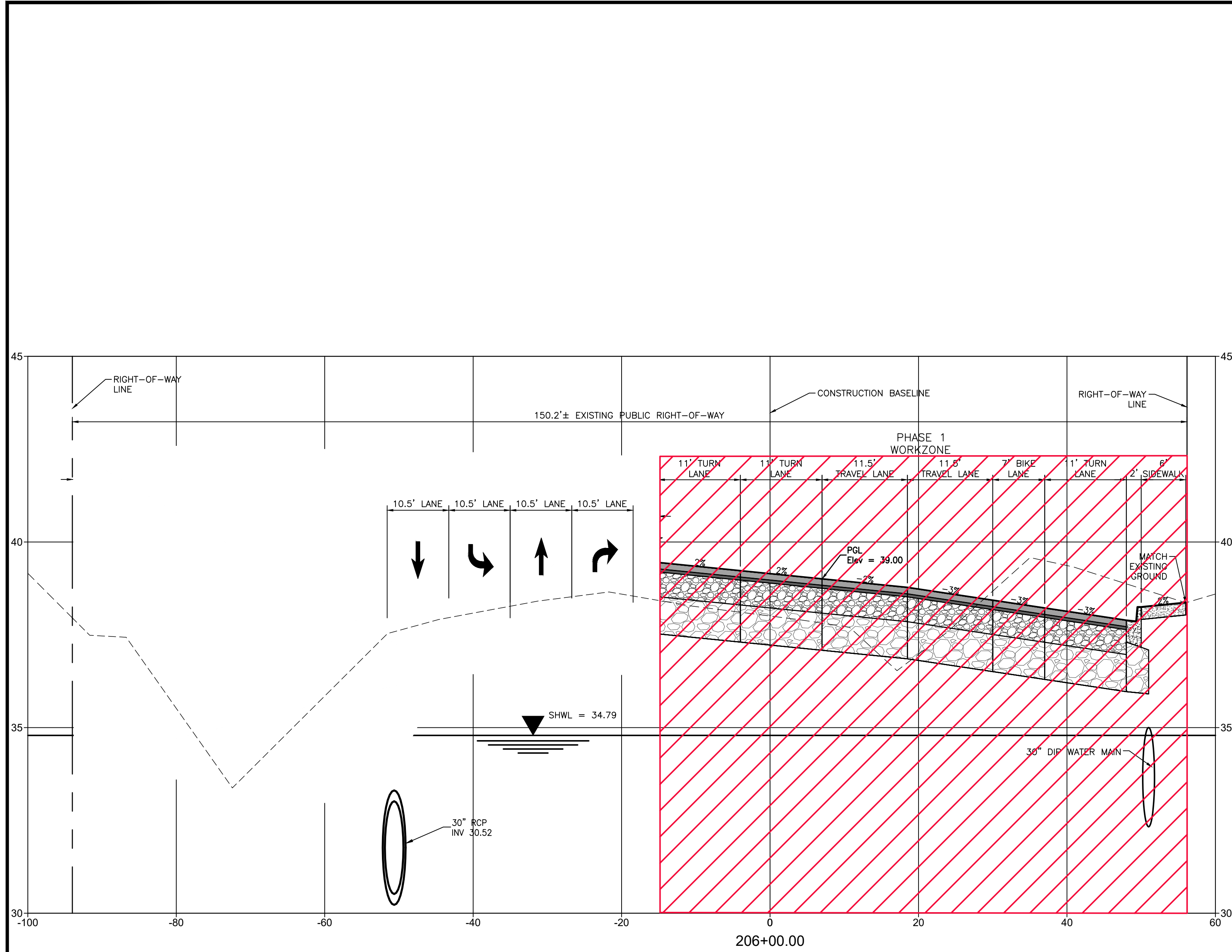
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE:
 VERTICAL SCALE:
 CROSS SECTIONS

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-6011C
 SHEET NUMBER: 99 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	ADDED WORK ZONES	4/15/22	MSC/98616		

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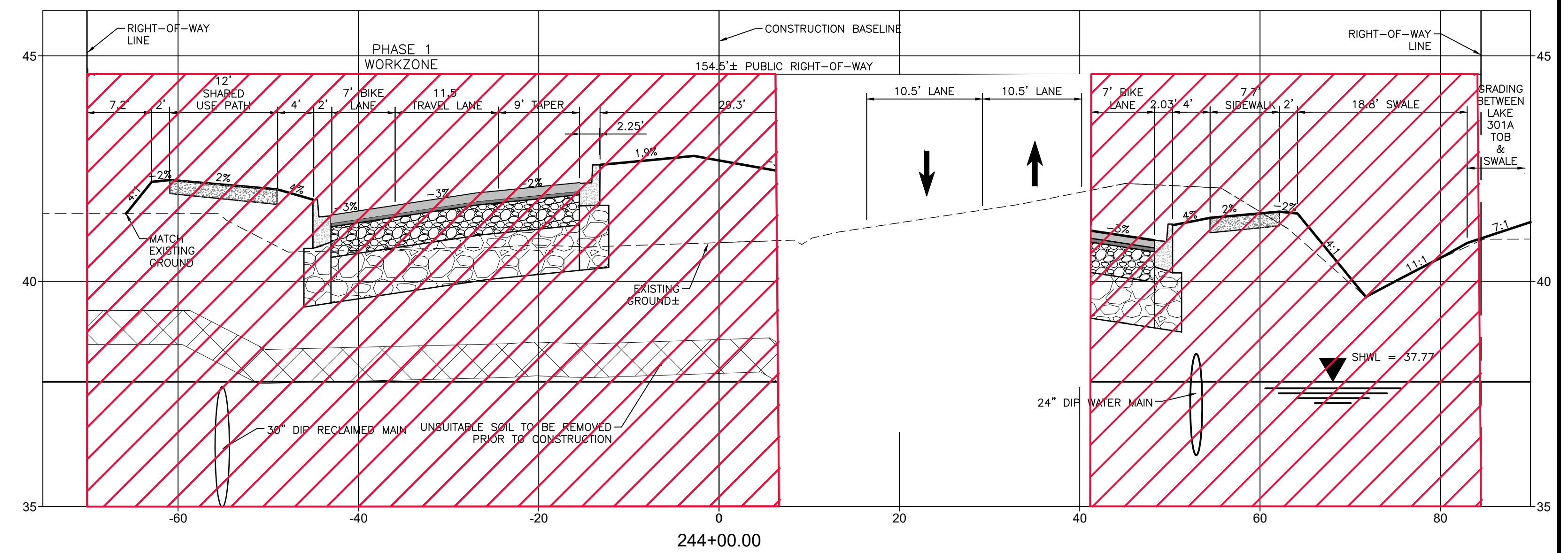
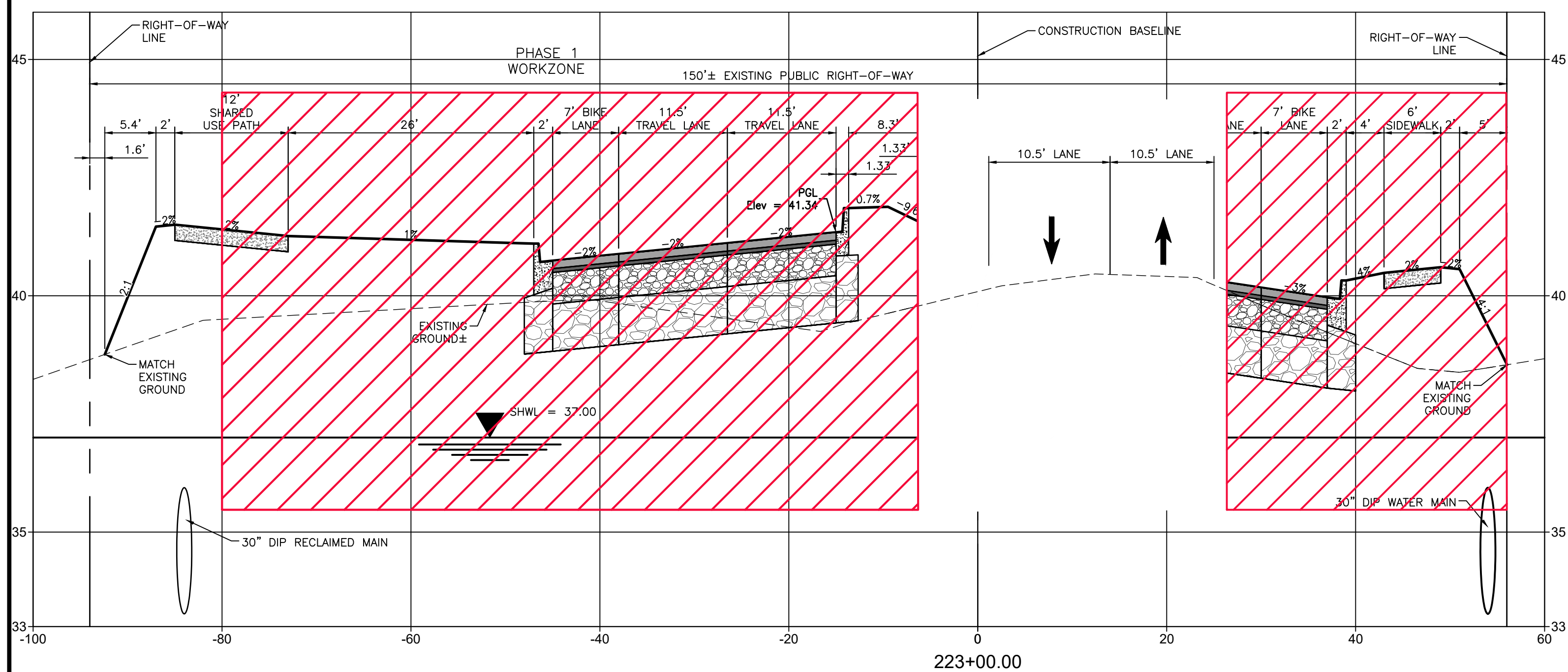
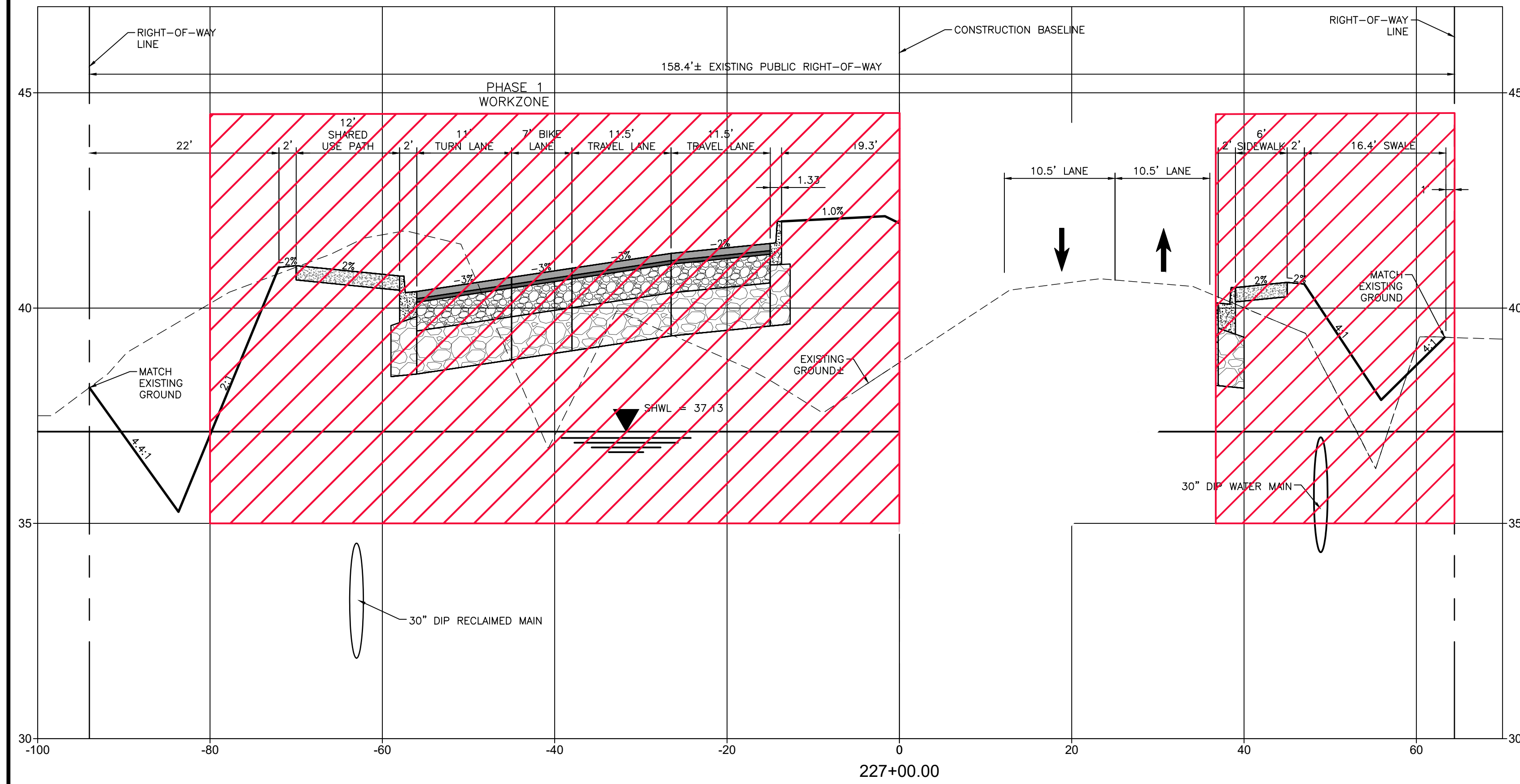
The Contractor shall verify and be responsible for all dimensions. DO NOT scale the drawing; any errors or omissions shall be reported to Stantec without delay. The Copyright in all designs and drawings are the property of Stantec. Reproduction or use for any purpose other than that authorized by Stantec is forbidden.

CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 3'

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 100 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
D	ADDED WORK ZONES	4/15/22	MSC/98616			DESIGNED BY:		10/2020
						CHECKED BY:		10/2020
						CONTRACT ADMIN. BY:		
						WM APPROVED BY:		



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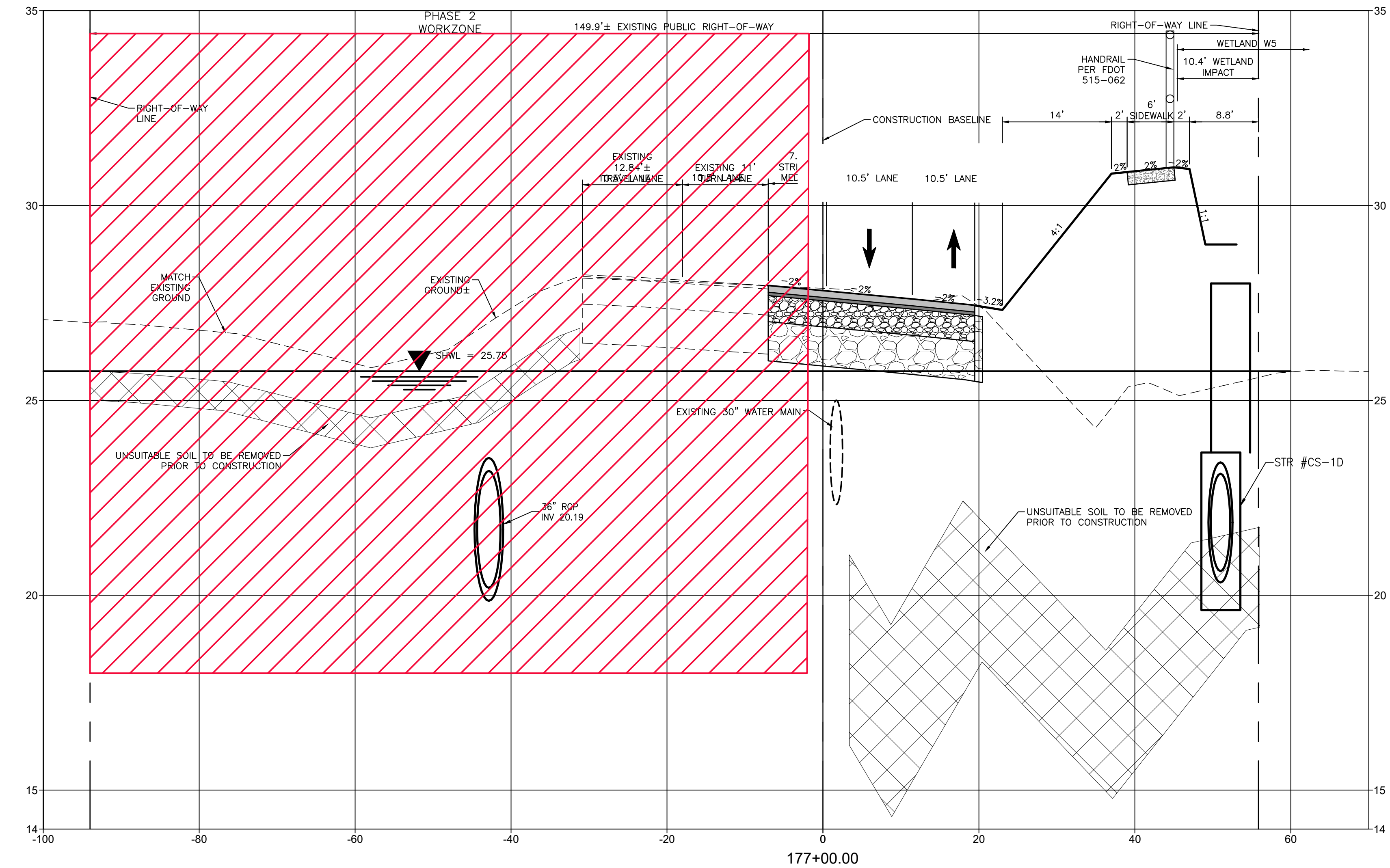
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE:
 VERTICAL SCALE:
 SHEET NUMBER: 101 OF 112

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC
 SHEET NUMBER: 101 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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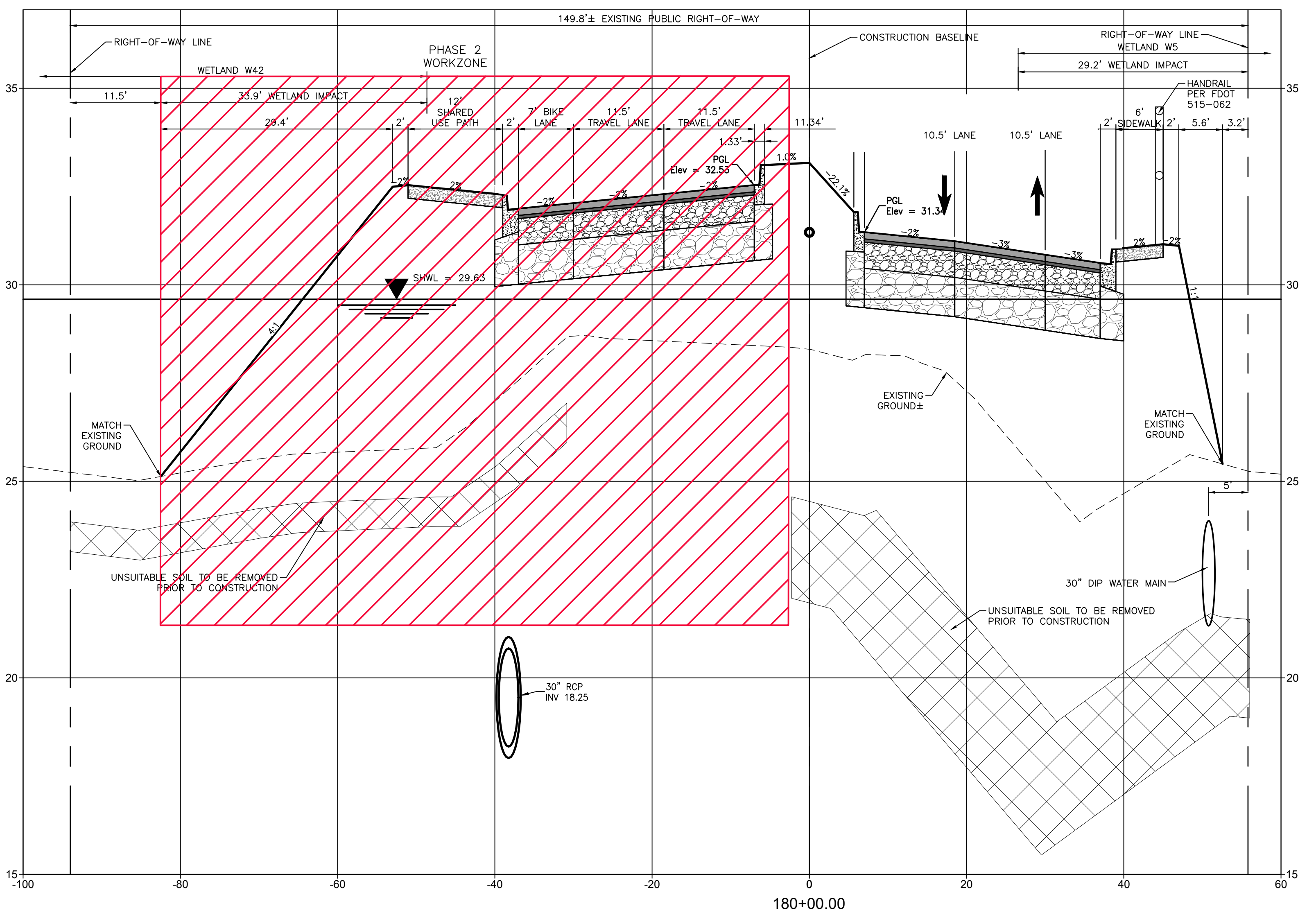
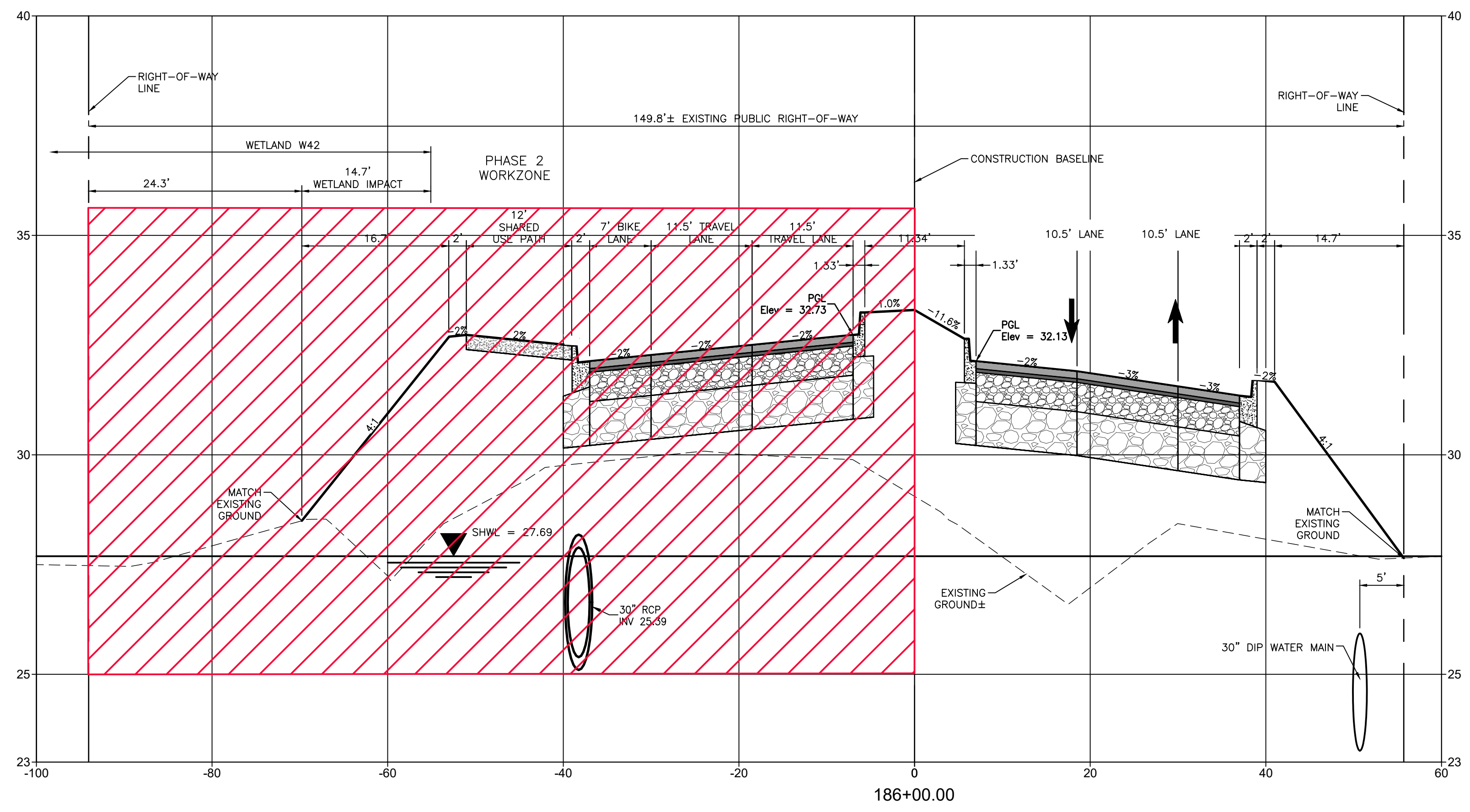
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 3.33' 19E

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC
 SHEET NUMBER: 102 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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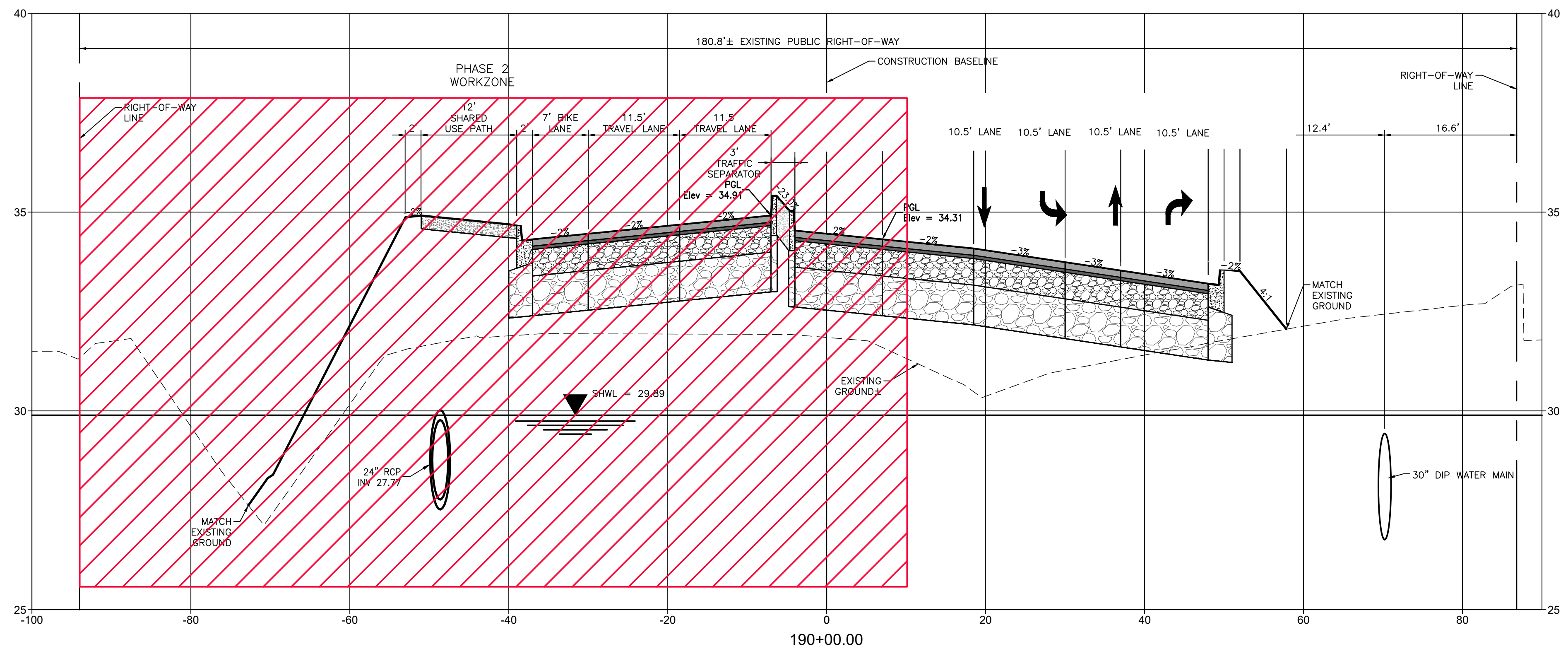
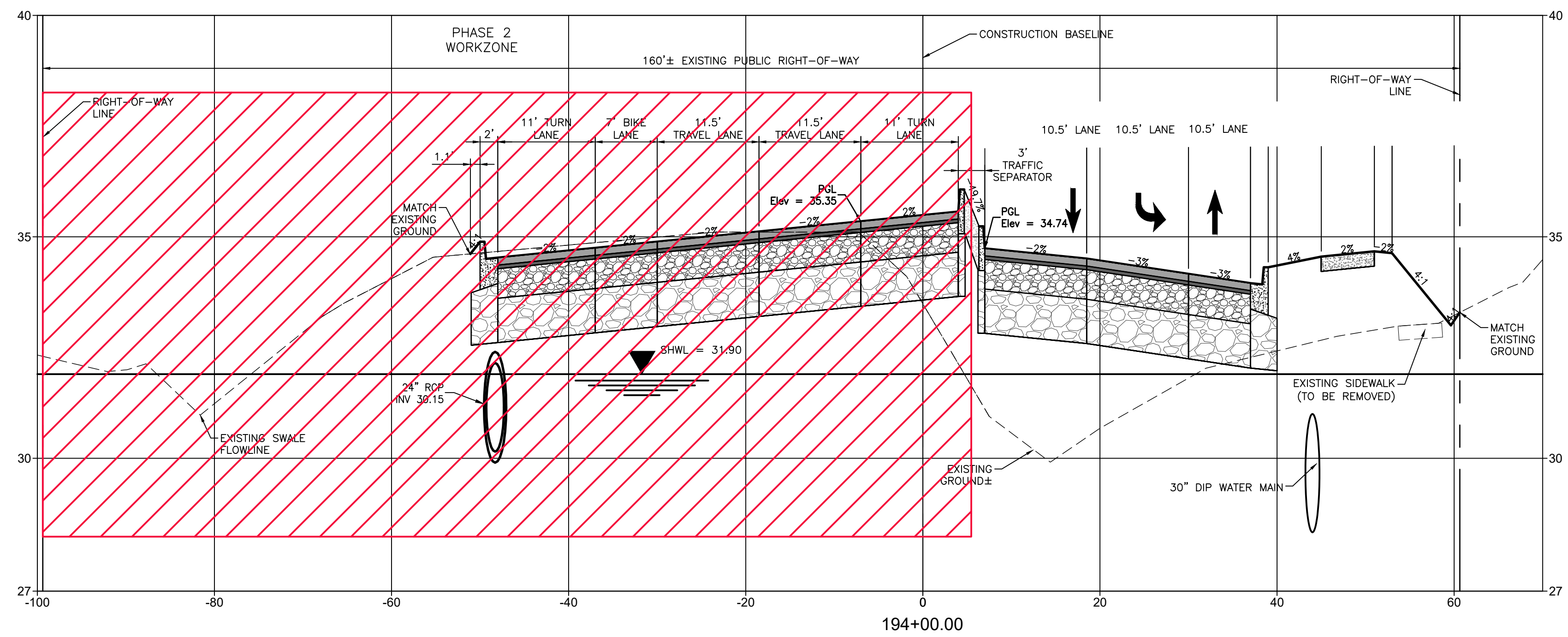
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 20'
 VERTICAL SCALE: 1" = 3.33'

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900
 SHEET NUMBER: 103 OF 112

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-6011C
 SHEET NUMBER: 103 OF 112



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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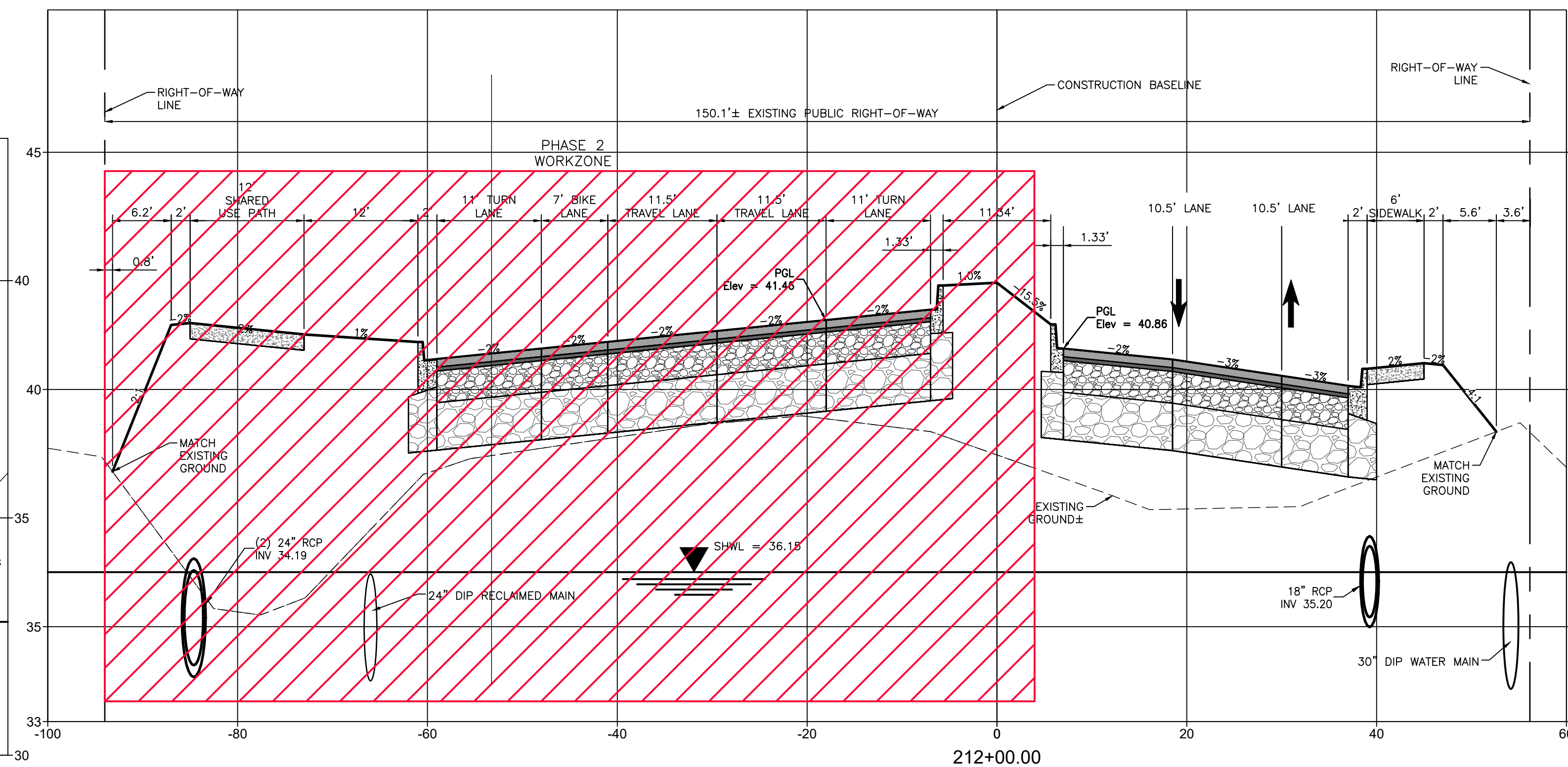
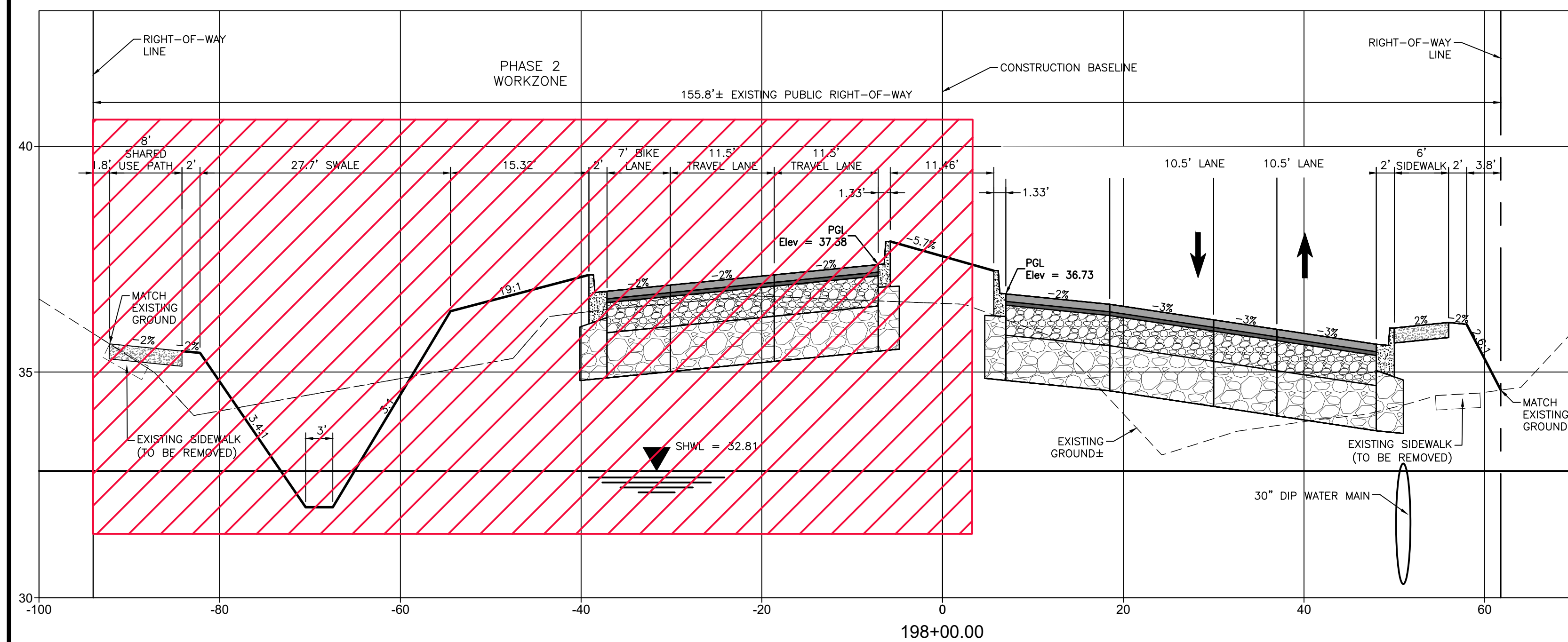
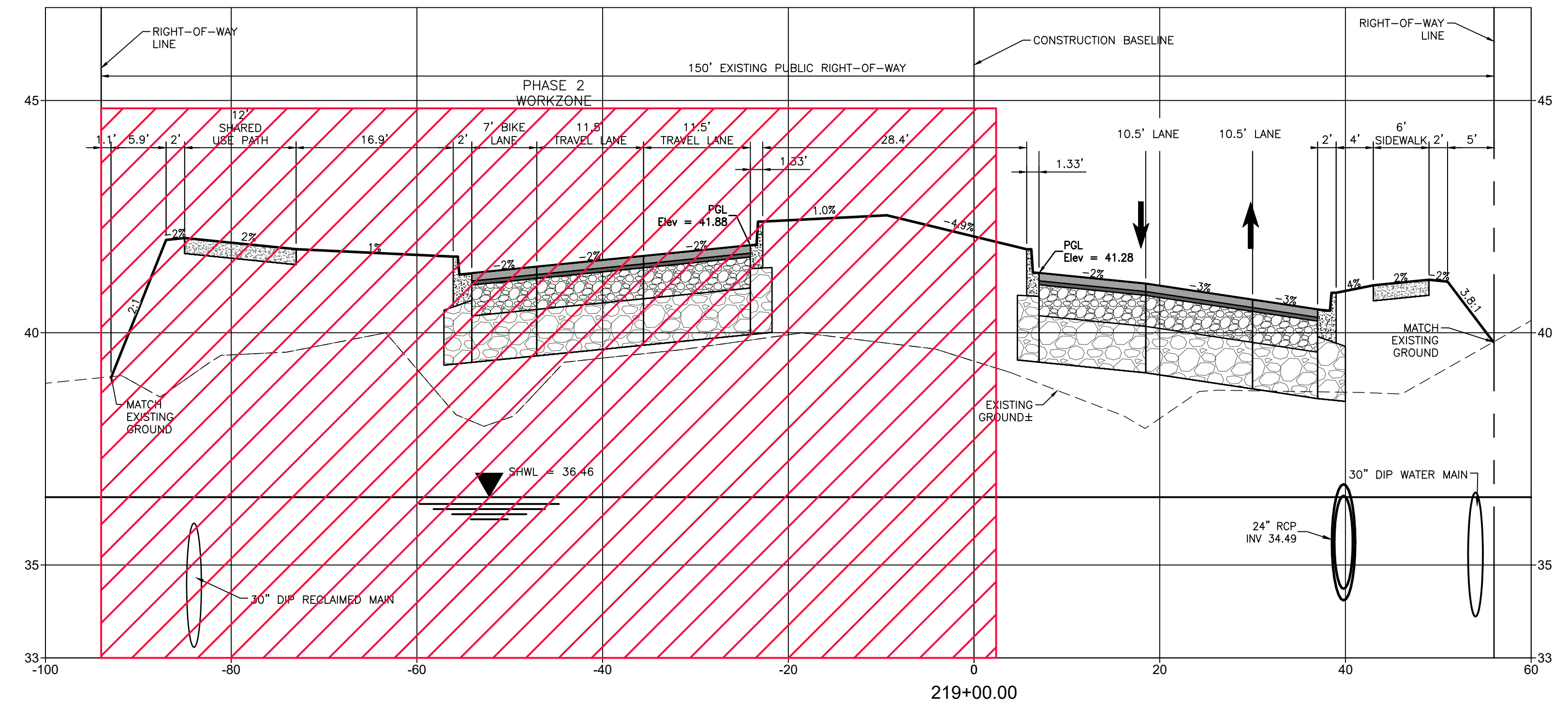
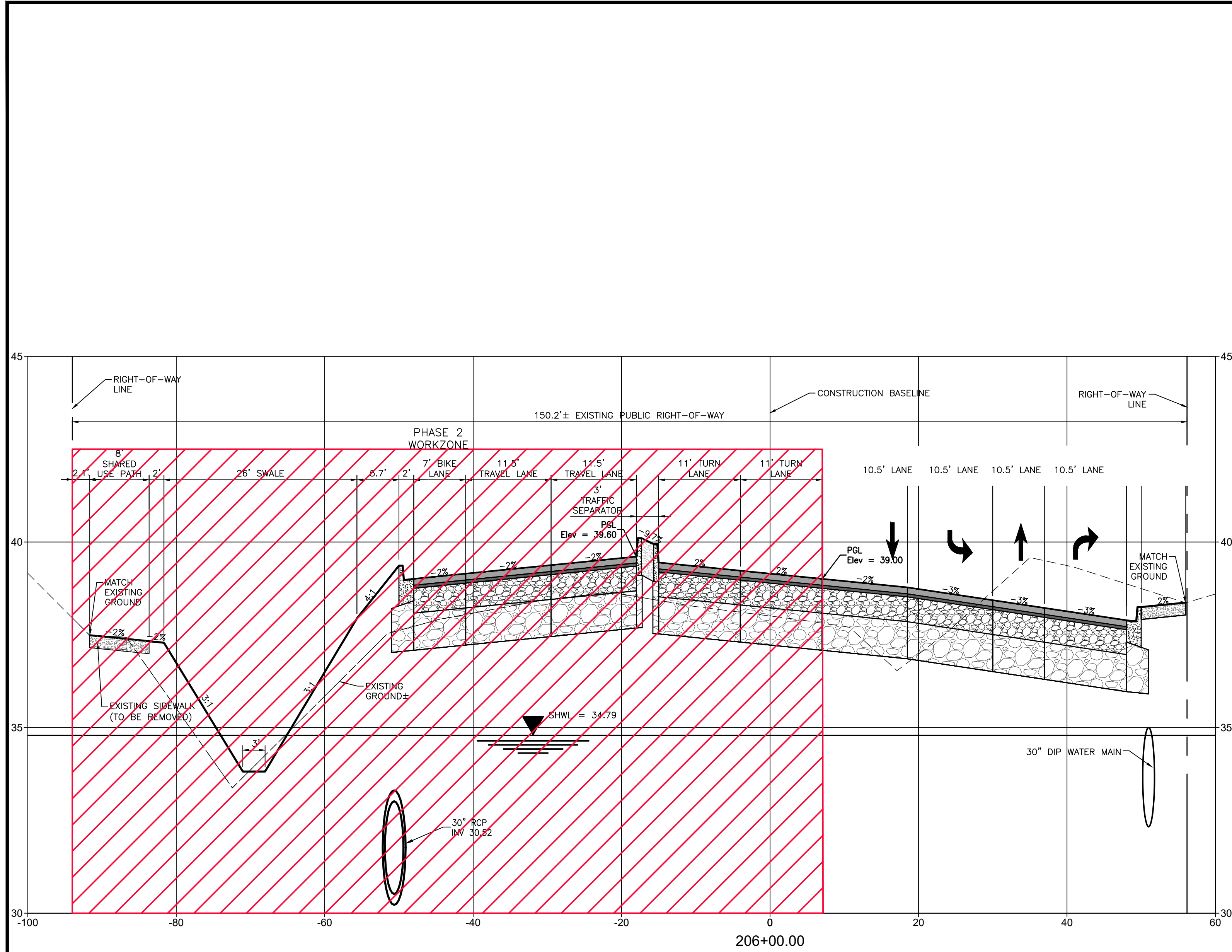
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1"=40'
 VERTICAL SCALE: 1"=4'

TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 PROJECT NUMBER: 215615900

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC
 SHEET NUMBER: 104 OF 112



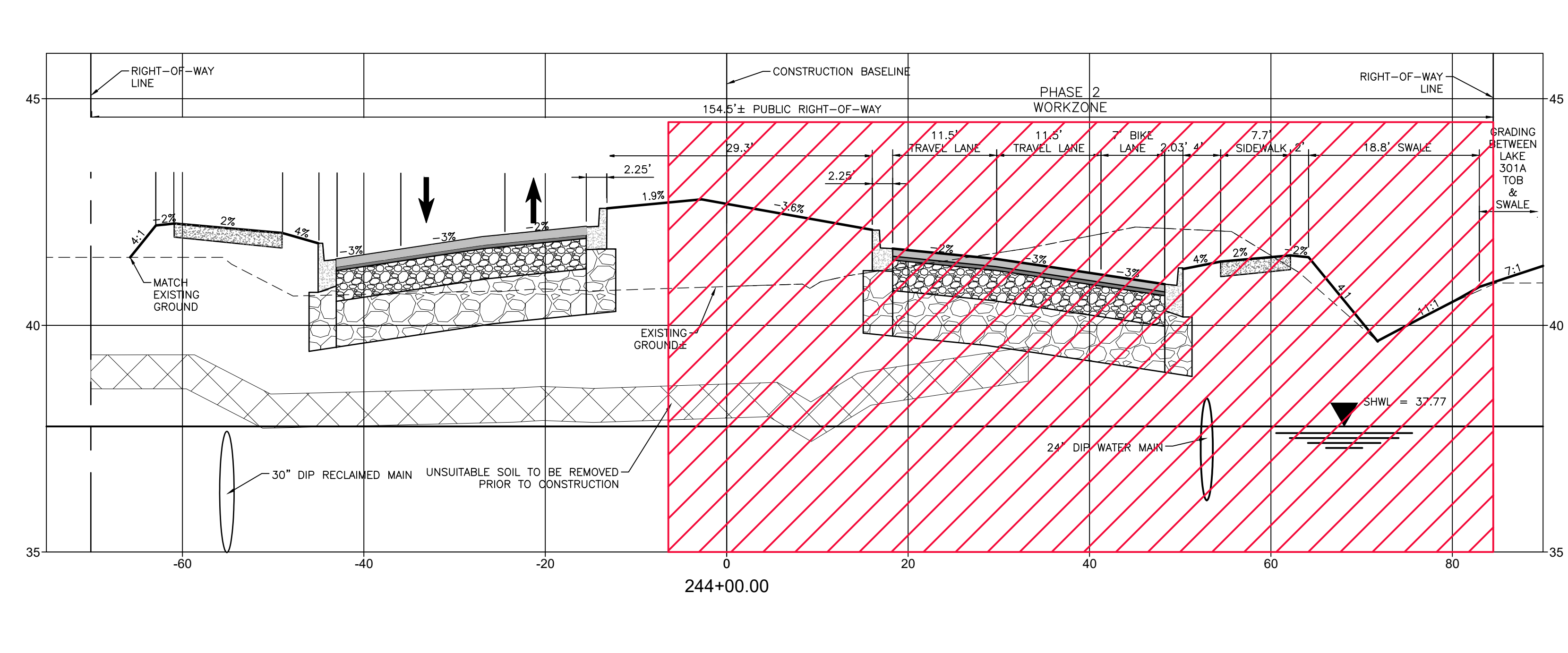
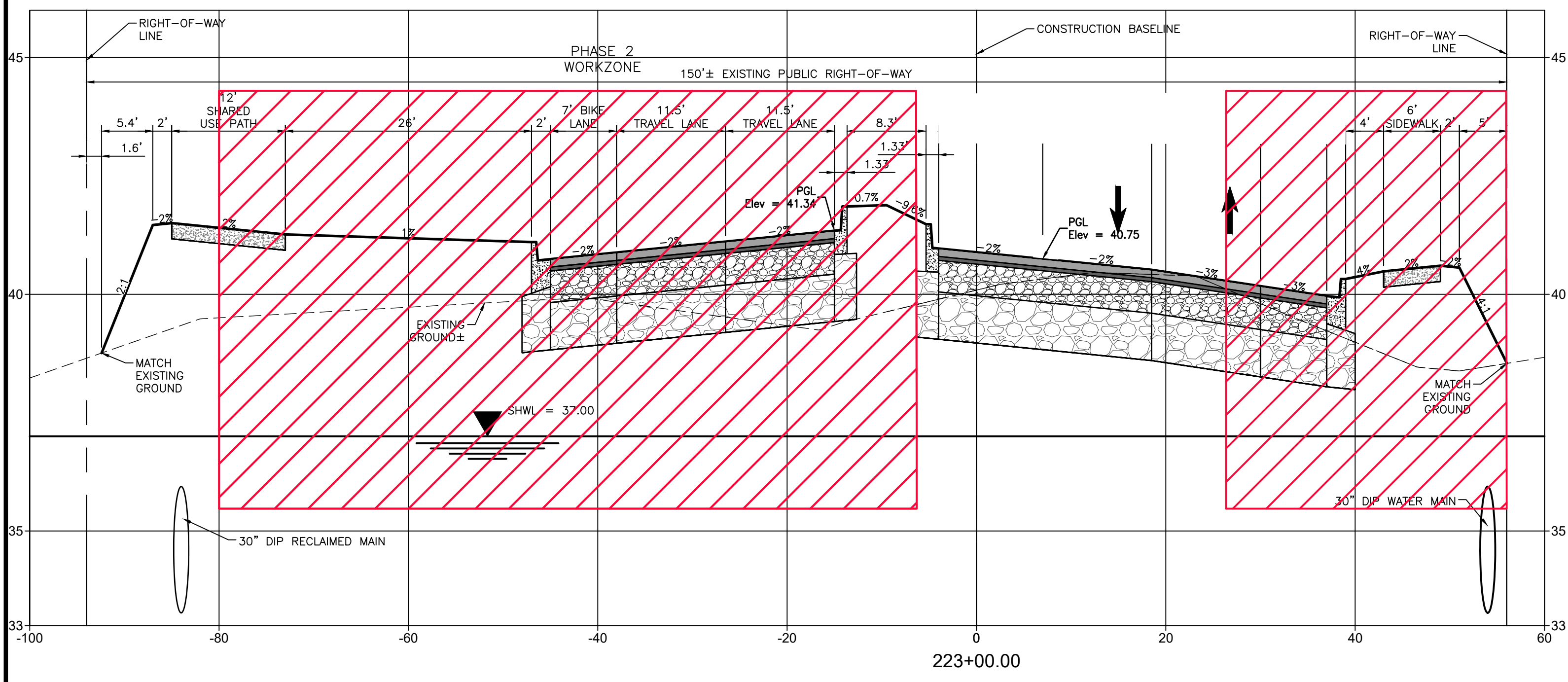
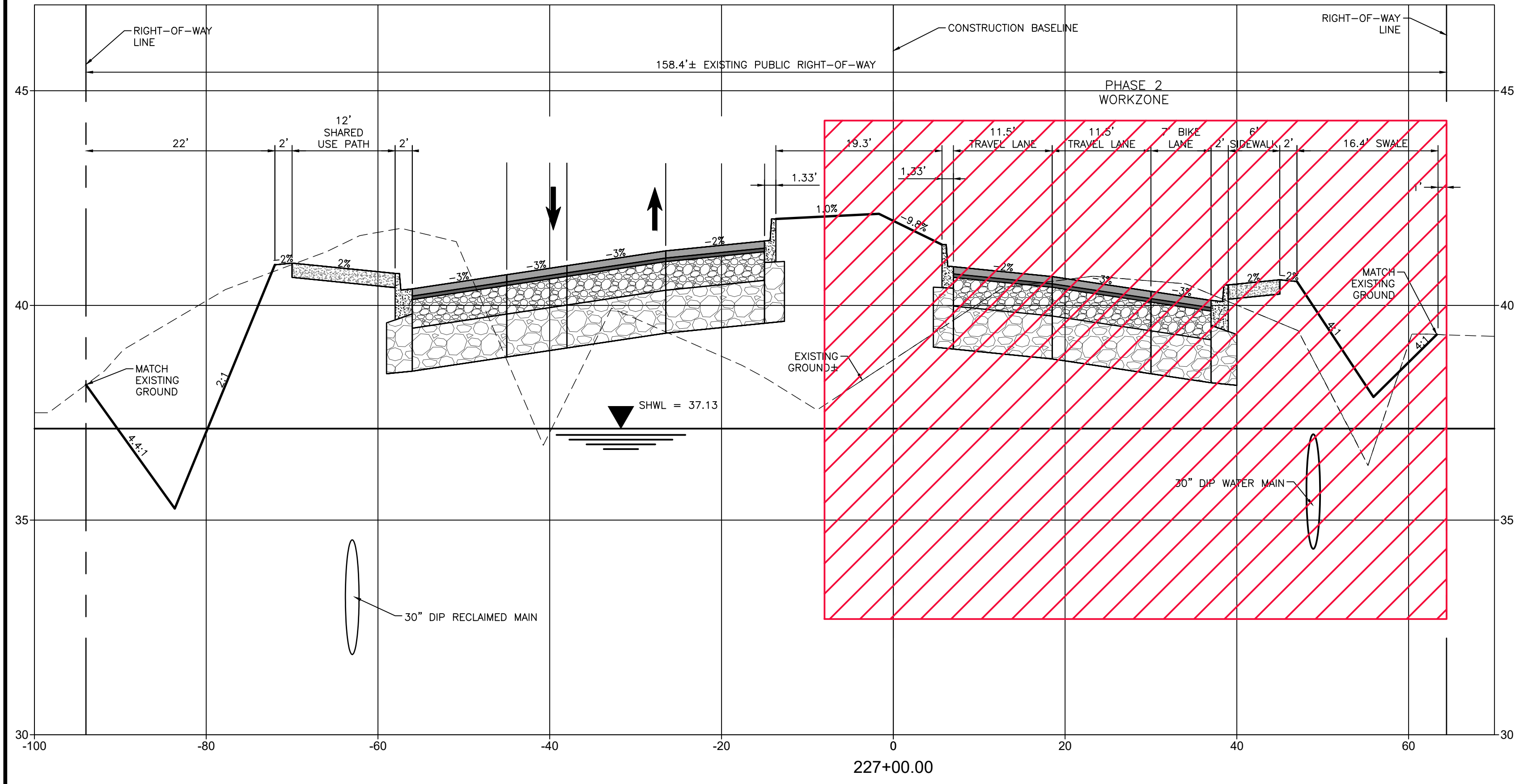
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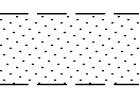



CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

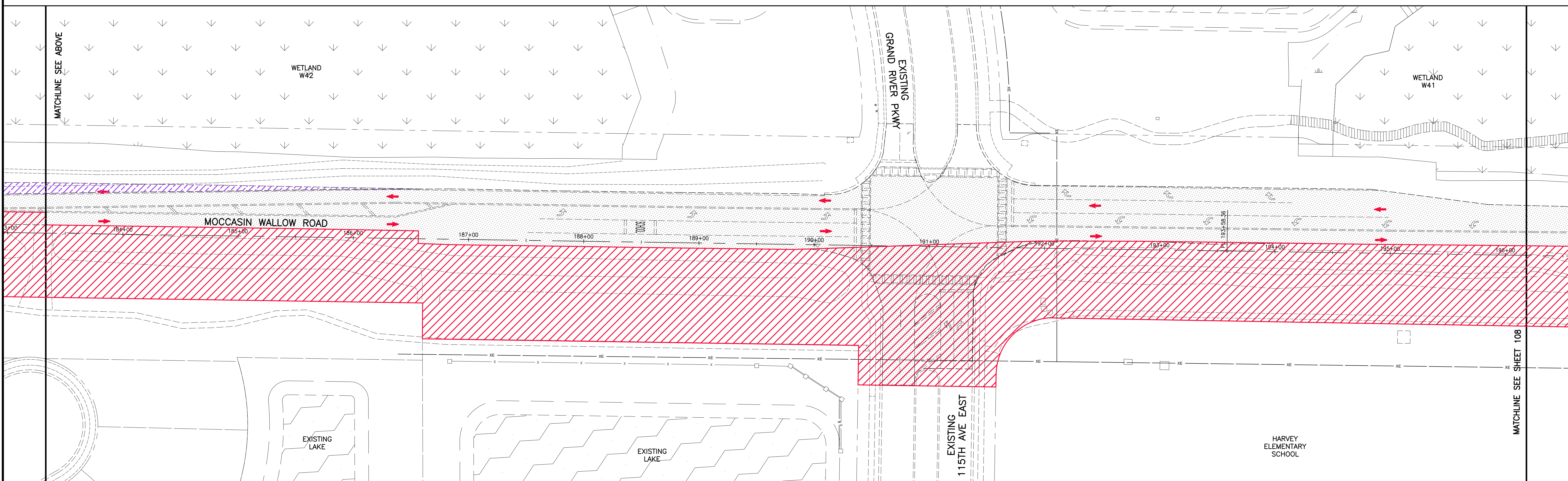
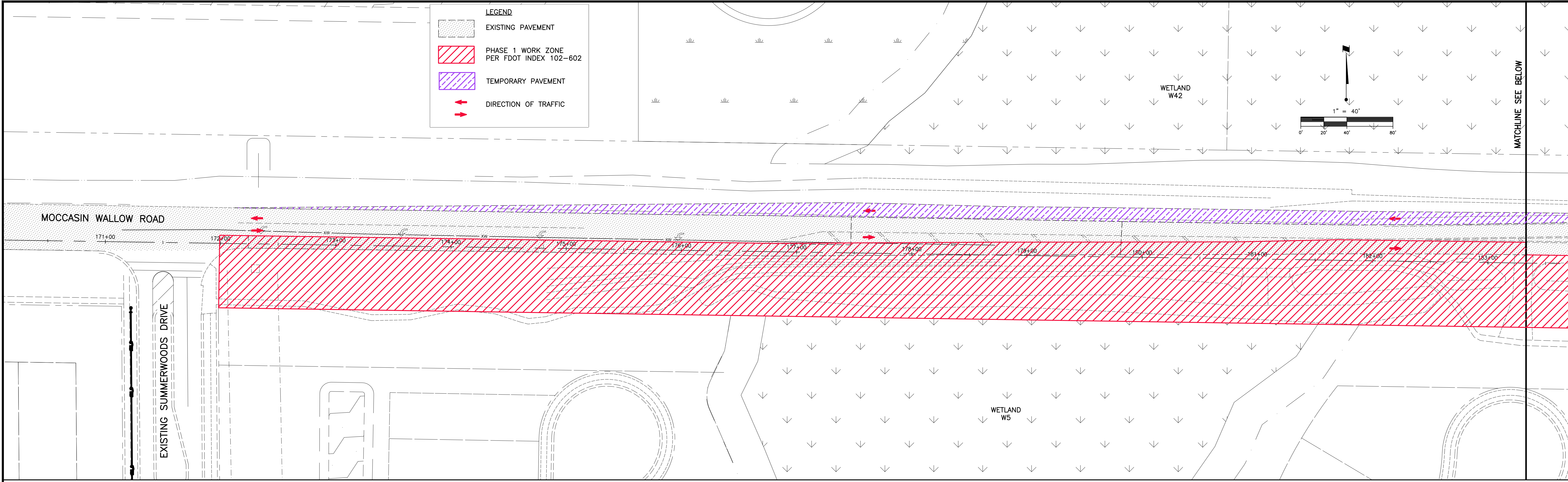
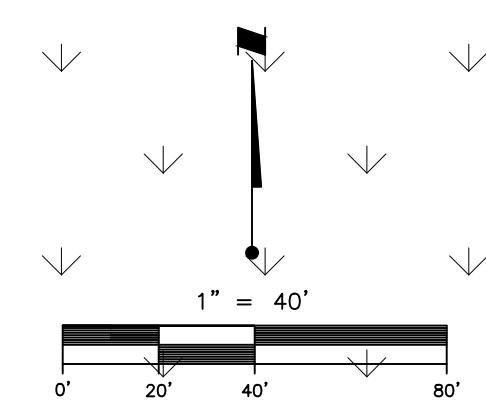
DATE: 10/2020
 HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 3.33'
 SHEET NUMBER: 105 OF 112
 PROJECT NUMBER: 215615900
 TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS
 ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-601TC



ACTIVITY DESIGNED BY: 10/2020 DRAWN BY: 10/2020 CHECKED BY: CONTRACT ADMIN. BY: WM APPROVED BY:		INITIALS/EMP. NO. DATE 10/2020 10/2020		 6900 Professional Parkway East, Sarasota, FL 34240-8414 Phone 941-907-6900 • Fax 941-907-6910 Certificate of Authorization #27013 • www.stantec.com	CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT	DATE: 10/2020 HORIZONTAL SCALE:	TITLE: TEMPORARY TRAFFIC CONTROL PLAN CROSS SECTIONS	ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602 INDEX NUMBER: 21565900-01C-601TC SHEET NUMBER:
PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1		SHEET NUMBER: 19 33S 19E	CROSS REFERENCE FILE NO.:		PROJECT NUMBER: 215615900	SHEET NUMBER: 106 OF 112		

LEGEND

-  EXISTING PAVEMENT
-  PHASE 1 WORK ZONE PER FDOT INDEX 102-602
-  TEMPORARY PAVEMENT
-  DIRECTION OF TRAFFIC



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



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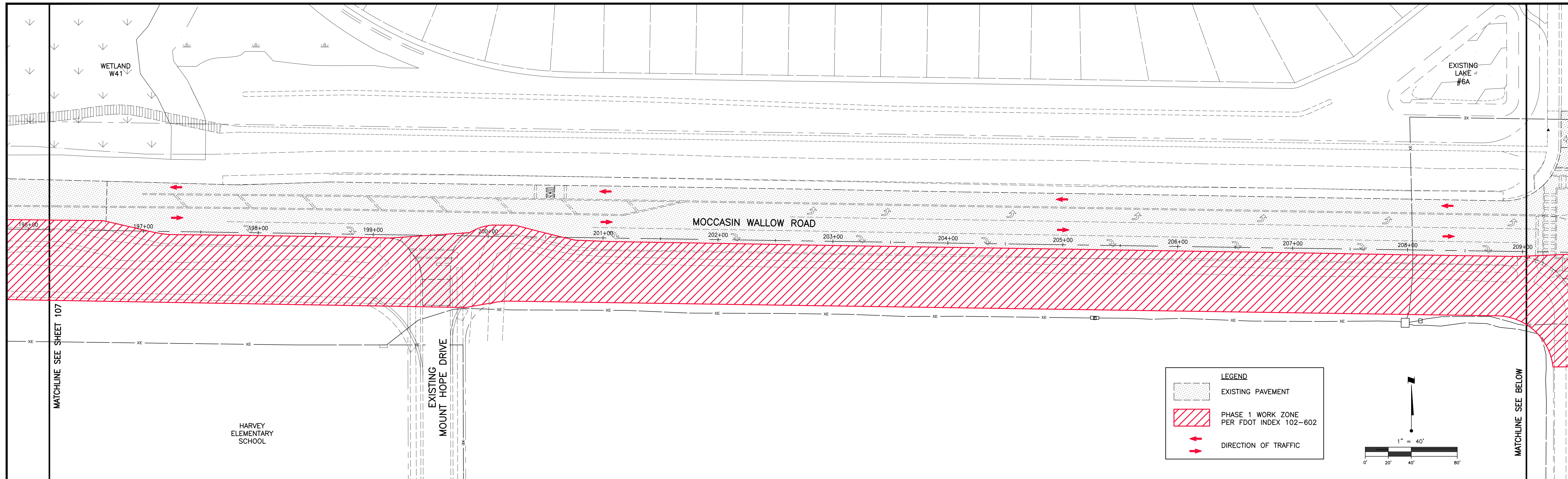
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

DATE: 10/2020
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 8'-3.6"

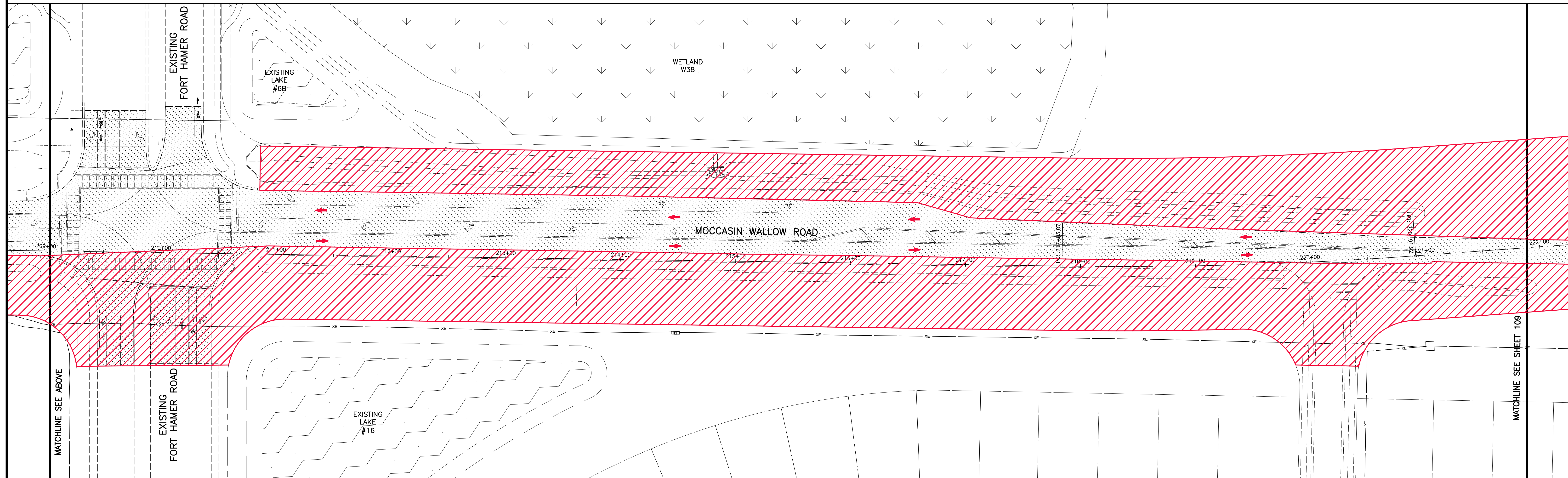
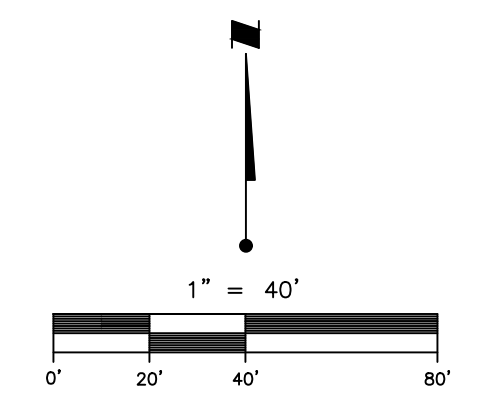
TITLE: TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-602TC
 SHEET NUMBER: 107 OF 112



LEGEND

- EXISTING PAVEMENT
- PHASE 1 WORK ZONE PER FDOT INDEX 102-602
- DIRECTION OF TRAFFIC



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	ADDED WORK ZONE	4/15/22	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

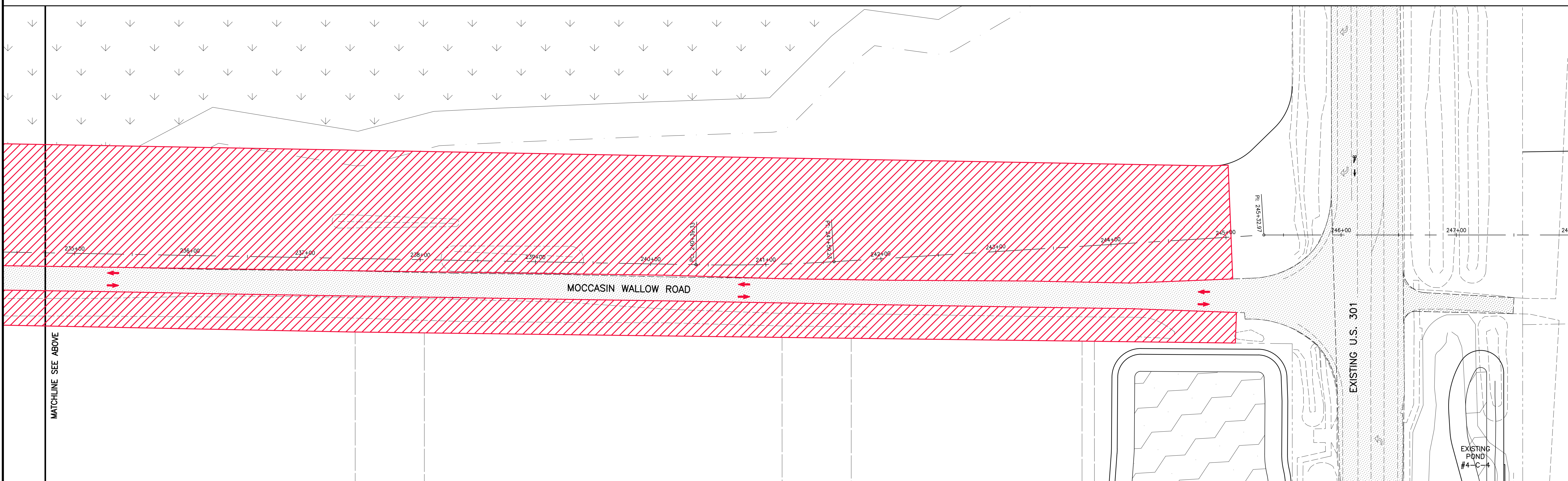
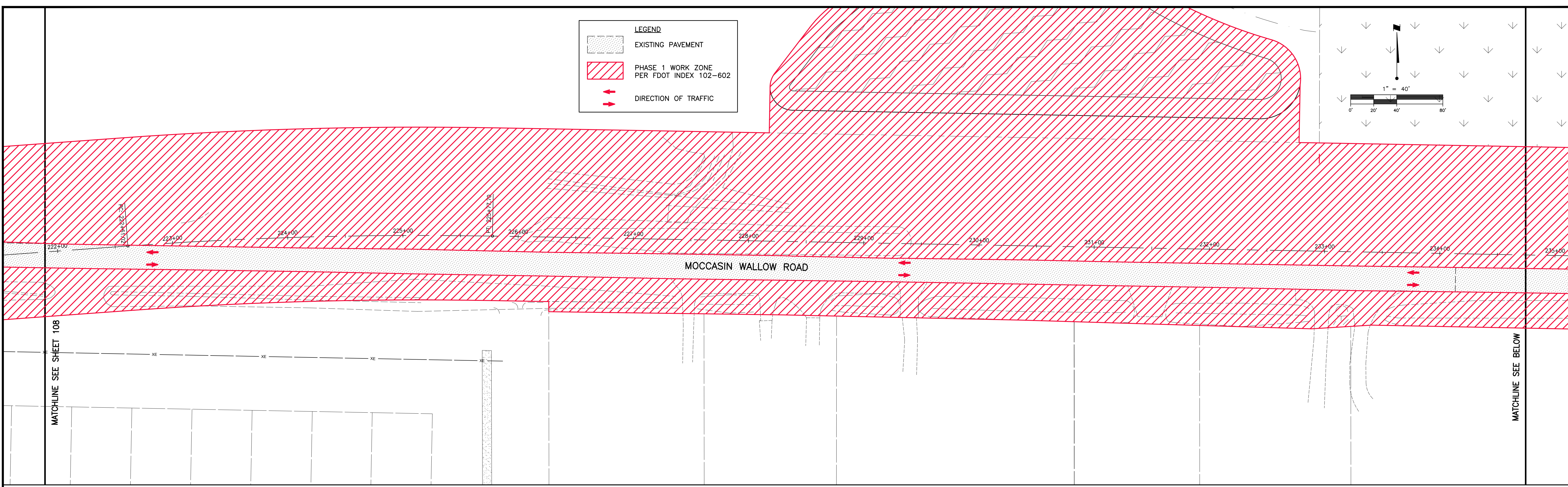
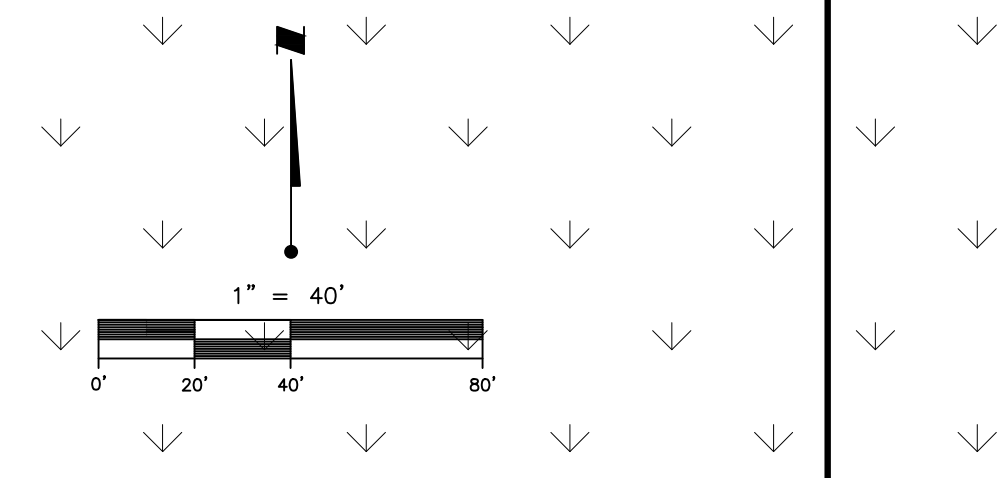
DATE: 10/2020
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE:

TITLE: TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-602TC
 SHEET NUMBER: 108 OF 112

LEGEND

- EXISTING PAVEMENT
- PHASE 1 WORK ZONE PER FDOT INDEX 102-602
- DIRECTION OF TRAFFIC



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	ADDED WORK ZONE	4/15/22	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
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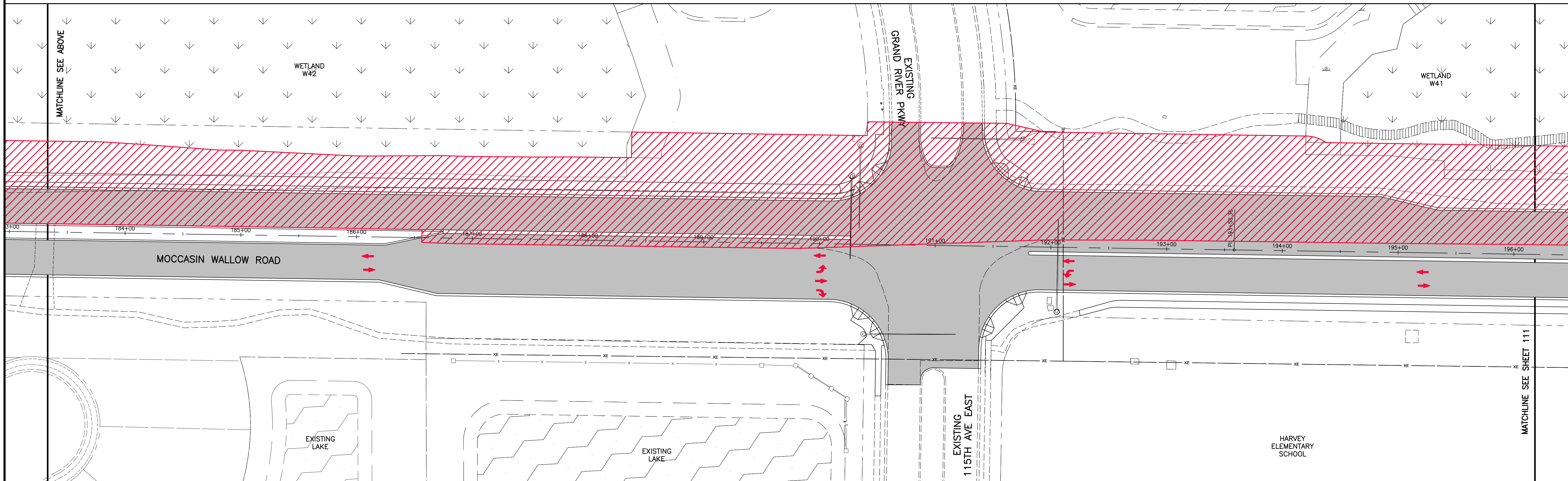
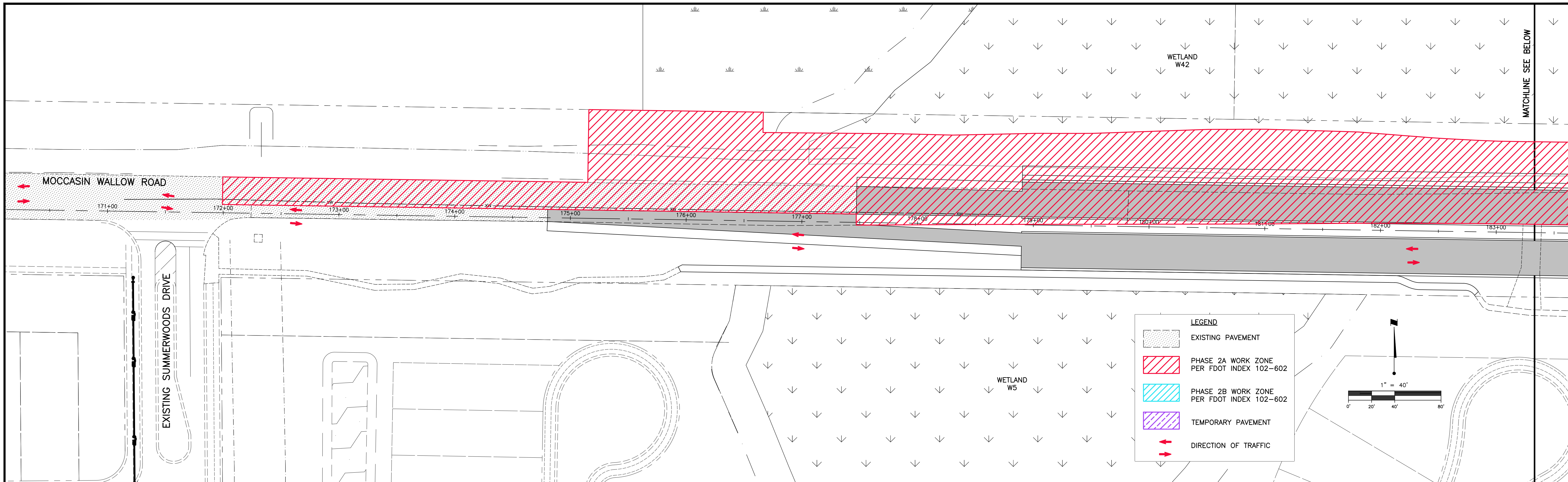
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CLIENT: MANATEE COUNTY PUBLIC WORKS DEPARTMENT
 PROJECT: MOCCASIN WALLOW ROAD SEGMENT 1

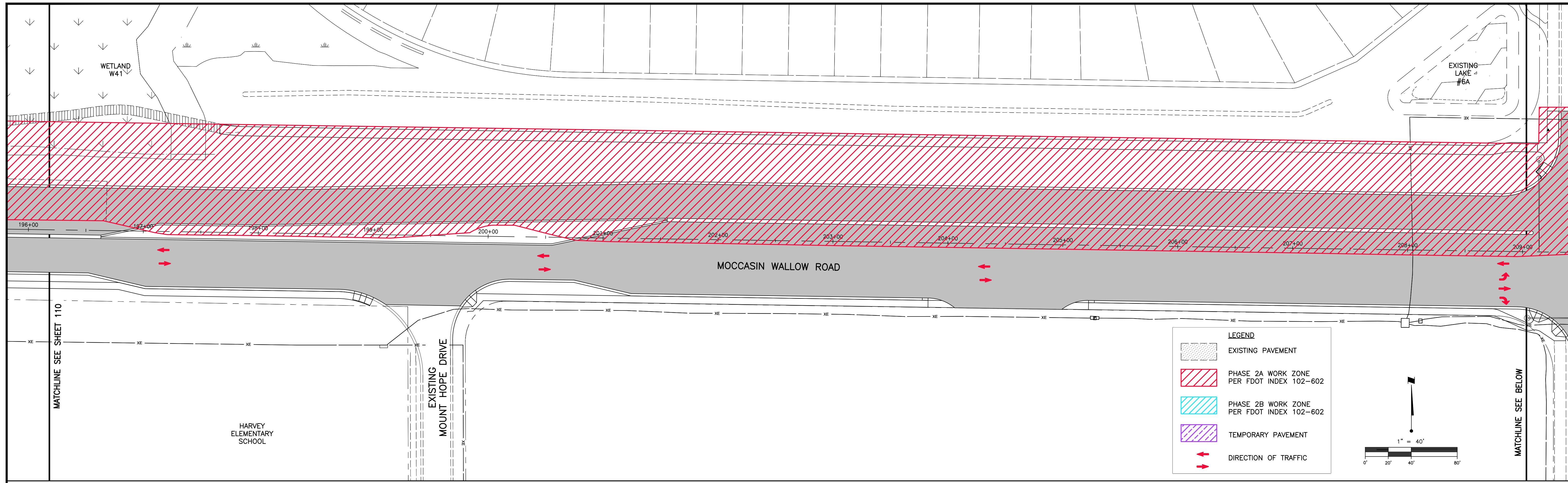
DATE: 10/2020
 HORIZONTAL SCALE: 1" = 40'
 VERTICAL SCALE: 1" = 20'

TITLE: TEMPORARY TRAFFIC CONTROL PLAN PHASE 1

ROBERT A. ENGEL, P.E.
 FLORIDA LICENSE NO. 58602
 INDEX NUMBER: 21565900-01C-602TC
 SHEET NUMBER: 109 OF 112

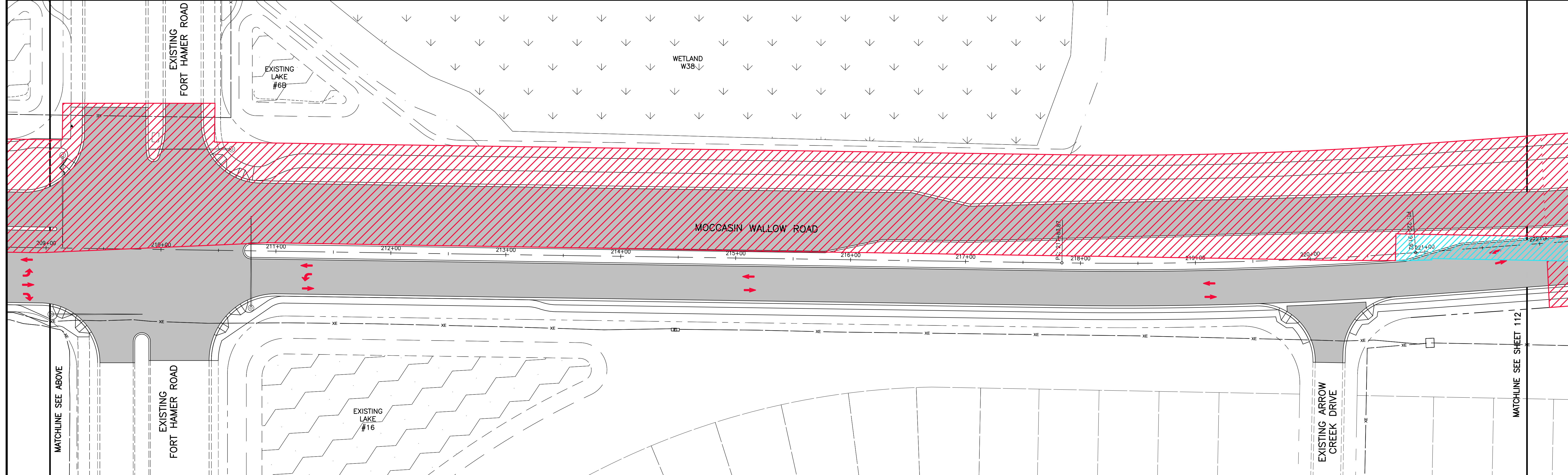
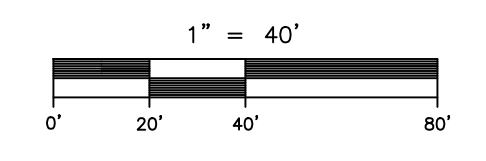


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REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																										
ACTIVITY	INITIALS/EMP. NO.	DATE																												
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CONTRACT ADMIN. BY:																														






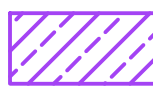

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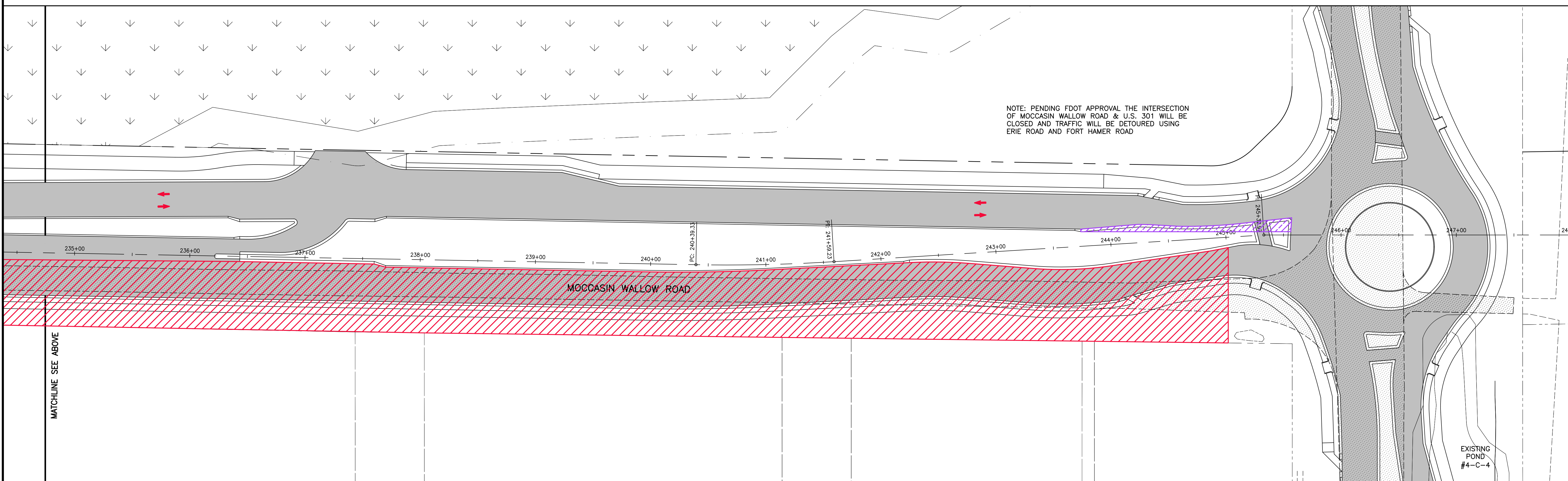
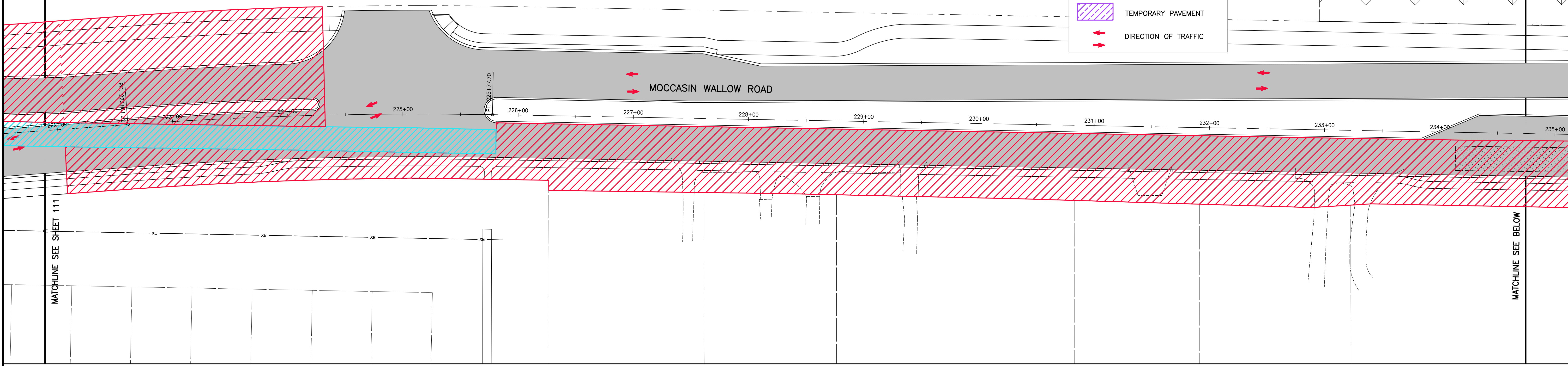
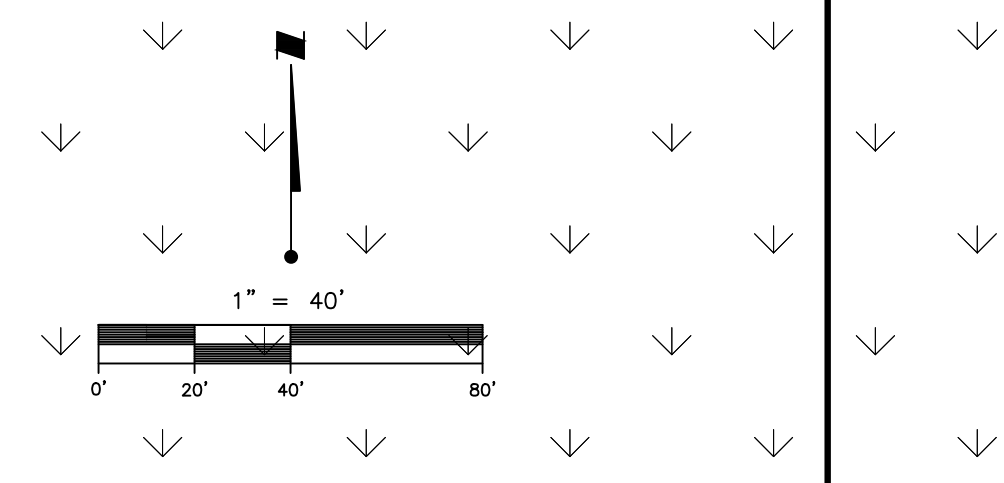
- EXISTING PAVEMENT
- PHASE 2A WORK ZONE PER FDOT INDEX 102-602
- PHASE 2B WORK ZONE PER FDOT INDEX 102-602
- TEMPORARY PAVEMENT
- DIRECTION OF TRAFFIC



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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:																															
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LEGEND

-  EXISTING PAVEMENT
-  PHASE 2A WORK ZONE PER FDOT INDEX 102-602
-  PHASE 2B WORK ZONE PER FDOT INDEX 102-602
-  TEMPORARY PAVEMENT
-  DIRECTION OF TRAFFIC



NOTE: PENDING FDOT APPROVAL THE INTERSECTION OF MOCCASIN WALLOW ROAD & U.S. 301 WILL BE CLOSED AND TRAFFIC WILL BE DETOURED USING ERIE ROAD AND FORT HAMER ROAD

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:
D	REVISED WORK ZONE. ADDED WORK ZONE, TEMP PVMT & NOTE	4/15/22	MSC/98616		

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		10/2020
DRAWN BY:		10/2020
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		



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CLIENT:	MANATEE COUNTY PUBLIC WORKS DEPARTMENT
PROJECT:	MOCCASIN WALLOW ROAD SEGMENT 1

DATE:	10/2020
HORIZONTAL SCALE:	1" = 40'
VERTICAL SCALE:	1" = 20'
SFC:	TWP: RGE:
19	33S 19E

TITLE:	TEMPORARY TRAFFIC CONTROL PLAN PHASE 2
CROSS REFERENCE FILE NO.:	
PROJECT NUMBER:	215615900

ROBERT A. ENGEL, P.E. FLORIDA LICENSE NO. 58602
INDEX NUMBER: 21565900-01C-603TC
SHEET NUMBER: 112 OF 112