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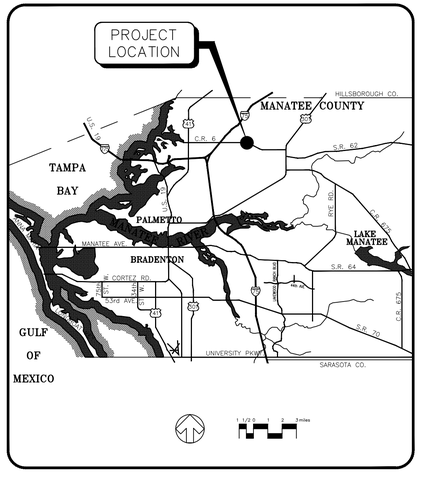
CONSTRUCTION PLANS FOR

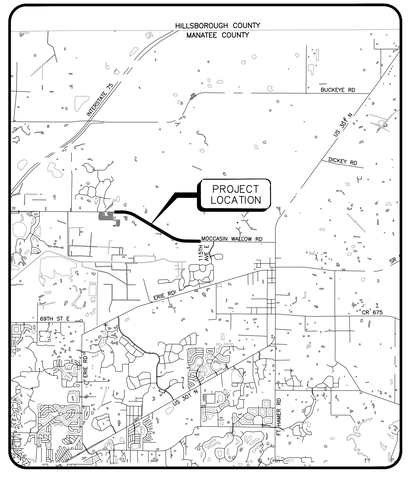
MOCCASIN WALLOW ROAD
I-75 TO U.S. 301 - SEGMENT 2

LOCATED WITHIN:
SECTION 33, TOWNSHIP 33S, RANGE 19E
SECTIONS 14, 23 AND 24, TOWNSHIP 33S, RANGE 18E
MANATEE COUNTY, FLORIDA

A DEVELOPMENT BY
MANATEE COUNTY PUBLIC WORKS
DEPARTMENT ENGINEERING SERVICES
1022 26th AVENUE EAST
BRADENTON, FLORIDA 34208
(941) 708-7450



LOCATION MAP



SITE MAP

PROJECT NUMBER: 215617221 DATE: FEBRUARY 2022

PROJECT DATA

1. THE PROJECT CONSISTS OF 8,232 LF OF FOUR-LANE ROADWAY ON MOCCASIN WALLOW ROAD WITH ASSOCIATED STORMWATER AND UTILITY IMPROVEMENTS.
2. THE PROJECT IS THE SECOND 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 45.75 ACRES. THE SWFWMD PROJECT AREA IS 45.75 ACRES
5. THE RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY MANATEE COUNTY, AND THE OPERATION AND MAINTENANCE ENTITY FOR EACH LAKE IS SHOWN ON THE MASTER DRAINAGE PLAN.
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", AND "A" PER MANATEE COUNTY FEMA FIRM COMMUNITY PANELS 12081C0173E (MARCH 17, 2014). 12081C0176E (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 2024 AND IS TO CONTINUE THROUGH JUNE 2026.
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 THAT HAS NOT ALREADY BEEN DELINEATED VIA PERMIT WILL BE PROVIDED BY STANTEC CONSULTANTS, INC. AND IS DEPICTED ON THE OTHER SURFACE WATER IMPACT PLAN AND THE DRAINAGE, PAVING AND GRADING PLAN. SWFWMD AND USACOE 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. NOTIFY "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. THE RECLAIMED SOURCE SHALL BE NON-POTABLE FROM MANATEE COUNTY. NON-POTABLE WATER LINES SHALL BE PURPLE IN COLOR.
30. 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 THE 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.
31. 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.
32. CRUSHED CONCRETE SHALL BE FROM A FDOT APPROVED VENDOR.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. 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.

INDEX TO SHEETS

SHEET	DESCRIPTION
1	COVER SHEET
1A	SIGNATURE SHEET
2	AERIAL SITE PLAN
3	SITE SURVEY CONTROL SHEET
4	MASTER SITE PLAN AND KEY SHEET
5-9	DEMOLITION PLAN
10-13	UTILITY ADJUSTMENT PLAN
14-15	TYPICAL ROAD SECTIONS
16	GENERAL NOTES AND LEGEND
17-21	SITE PLAN
22	EXISTING DRAINAGE MAP
23	PROPOSED DRAINAGE MAP
24-26	OTHER SURFACE WATER IMPACT PLAN
27	SUMMARY OF DRAINAGE STRUCTURES
28-31	PAVING, GRADING AND DRAINAGE PLAN
32	EXISTING UTILITY PLAN
33	MASTER UTILITY PLAN
34	PLAN AND PROFILE KEY SHEET
35-57	PLAN AND PROFILE
58-76	CROSS SECTIONS
77-82	SIGNAGE AND STRIPING PLAN
83-85	INTERSECTION SIGHT DISTANCE
86-95	LIGHTING PLAN
96-97	PAVING AND GRADING DETAILS
98-100	DRAINAGE DETAILS
101	UTILITY CONSTRUCTION DETAILS
102-103A	WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS
104	WASTEWATER DETAILS
105	BEST MANAGEMENT PRACTICES PLAN
106	BEST MANAGEMENT PRACTICES DETAILS
107-126	TEMPORARY TRAFFIC CONTROL PLAN
	SUPPLEMENTAL PLANS
1-11	MITIGATION PLANS
	DENOTES SWFWMD SUBMITTAL

NO.	DATE	DESCRIPTION	BY
B	5/9/23	REV SHEETS 5-8, 28-31, 37-39, 54-55, 59, 77-80, 82, 98, 109, 114, 119-122	MSC/98616
A	11/6/23	ISSUED BID SET	MSC/98616

STATUS: 100% SUBMITTAL

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Check positive response codes before you dig!

PROJECT SURVEYOR	PROJECT ENGINEER	PROJECT MANAGER
ROBERT R. CUNNINGHAM, P.S.M.	ALEXANDRA JOHNSON, P.E. FLORIDA LIC. NO. 91109	ROBERT A. ENGEL, P.E. FLORIDA LIC. NO. 58602

RESERVED FOR STATUS AND DATE STAMPS

INDEX NUMBER
215617221-01C-001CV

ORIGINAL SHEET - ARCH D
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SAVED: 5/7/2024 1:26 PM MCONNERY PLOTTED: 5/7/2024 1:30 PM MCONNERY

RICHARD QUINCE SELLERS
LICENSE
No. 49374
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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SARASOTA, FLORIDA 34240-8414
RICHARD Q. SELLERS, PE NO. 49374

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MITIGATION PLANS

SHEET NO.	SHEET DESCRIPTION
1	PROJECT LOCATION
2	KEY SHEET
3-4	EXISTING CONDITIONS
5-6	GRADING PLAN
7-8	TYPICAL SECTIONS
9-11	PLANTING PLAN

FRANCISCO B. DOMINGO
LICENSE
No. 51601
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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MATTHEW R. CRIM, PE NO. 68297

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SHEET NO.	SHEET DESCRIPTION
86-95	PRELIMINARY LIGHTING PLAN
107-126	TEMPORARY TRAFFIC CONTROL PLAN

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No. 58602
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-0015G

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SIGNATURE SHEET

Revision: Sheet: 1A of 126

Drawing No.
1A

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SAVED: 11/7/2023 12:40:10 PM MCDANIEL PLOTTED: 11/7/2023 12:43:03 PM MCDANIEL

ORIGINAL SHEET - ARCH D

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

ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: P/SP-1, UF-3
CURRENT USE:
AG LAND/IMP W/OBY'S ONLY

ZONING: A, PDC
FLU: UF-3
CURRENT USE:
VACANT INSTITUTIONAL

ZONING: A, PDC
FLU: UF-3
CURRENT USE:
VACANT ACREAGE, NOT AG 10+ ACRES

ZONING: A, PDC
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE:
VACANT INSTITUTIONAL

ZONING: PDR
(PLANNED DEVELOPMENT RESIDENTIAL)
FLU: UF-3
CURRENT USE:
VACANT RESIDENTIAL PLATTED
PROJECT NAME: SUMMERWOODS PH IIA & IVA

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

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

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

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

SAWGRASS ROAD
MOCCASIN WALLOW ROAD
WESTERNWOODS AVENUE
BAHIA LAKES DRIVE
SANDY BLUFF CIRCLE
EXISTING GRAND RIVER PKWY
EXISTING SUMMERWOODS DRIVE
EXISTING 115TH AVE EAST

SEGMENT 2
BEGIN PHASE LINE

SEGMENT 2
END PHASE LINE

SWFWMD PROJECT AREA = 45.75 AC

WETLAND 5
WETLAND 1
WETLAND W1/B
WETLAND W3
WETLAND WL-C
WETLAND 9
WETLAND WL-B
WETLAND WL-A
WETLAND 2
WETLAND 6
WETLAND 7
WETLAND A
WETLAND 1
WETLAND 5
WETLAND W42
WETLAND 7
WETLAND 1/E
WETLAND E
WETLAND W38
WETLAND D

EXISTING POND 1
EXISTING LAKE 34
EXISTING LAKE 33
EXISTING LAKE 37
EXISTING LAKE 5
EXISTING LAKE 6
EXISTING LAKE 38
EXISTING LAKE #2B
EXISTING LAKE #3
EXISTING LAKE #8
EXISTING LAKE #9
EXISTING LAKE #L-4B
EXISTING LAKE #L-2
EXISTING LAKE

LAKE 2-1

1" = 300'
0' 150' 300' 600'

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No.	By	Appd	YYYY.MM.DD	Issued

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-002PL
Scale: 1" = 300'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
AERIAL SITE PLAN

Revision: Sheet: 2 of 126
Drawing No.
2

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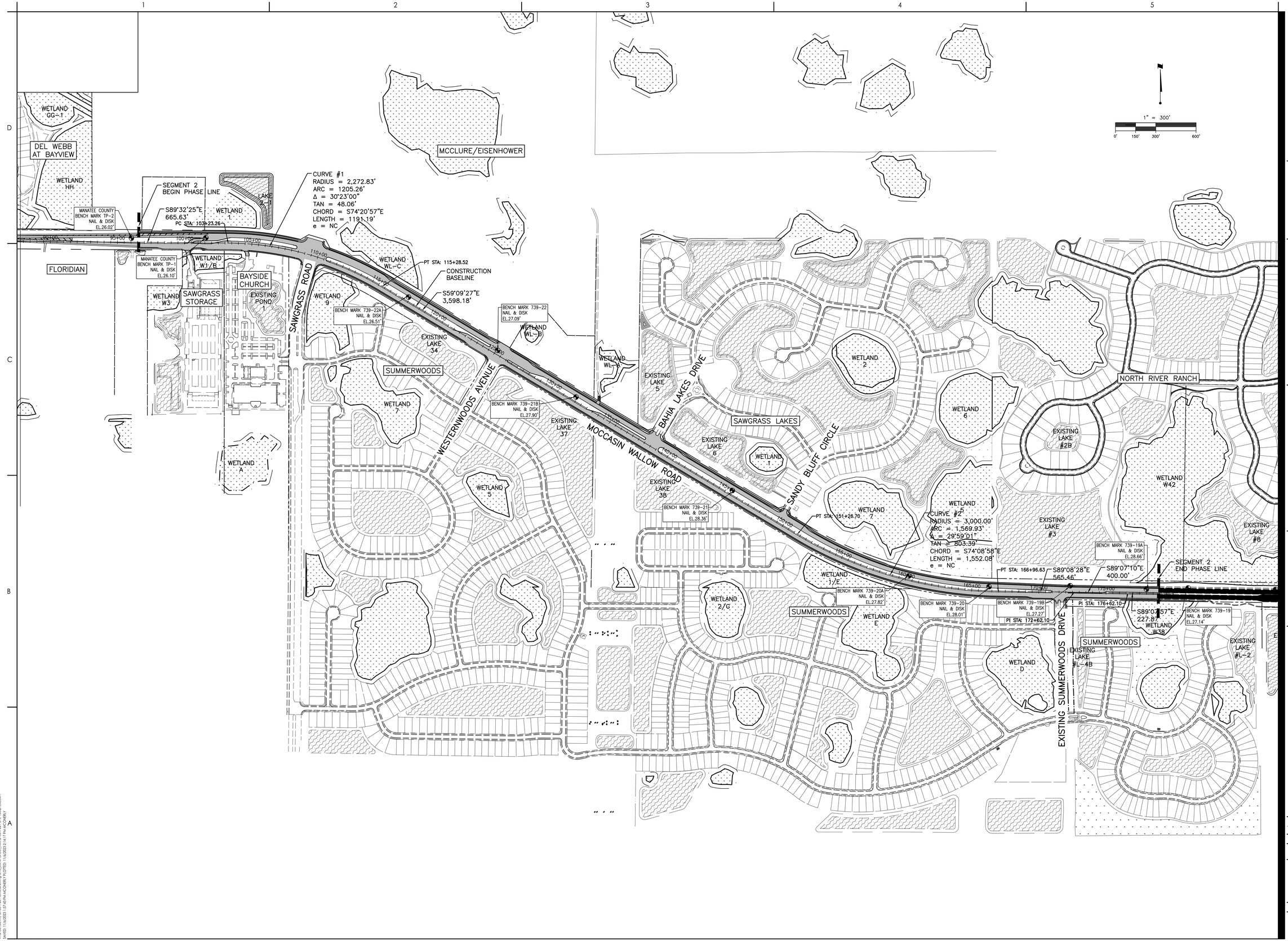
PLOTTED: 11/4/2023 2:33:17 PM by ALEC.OWEN

ORIGINAL SHEET - ARCH D



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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-100SP
Scale: 1" = 300'

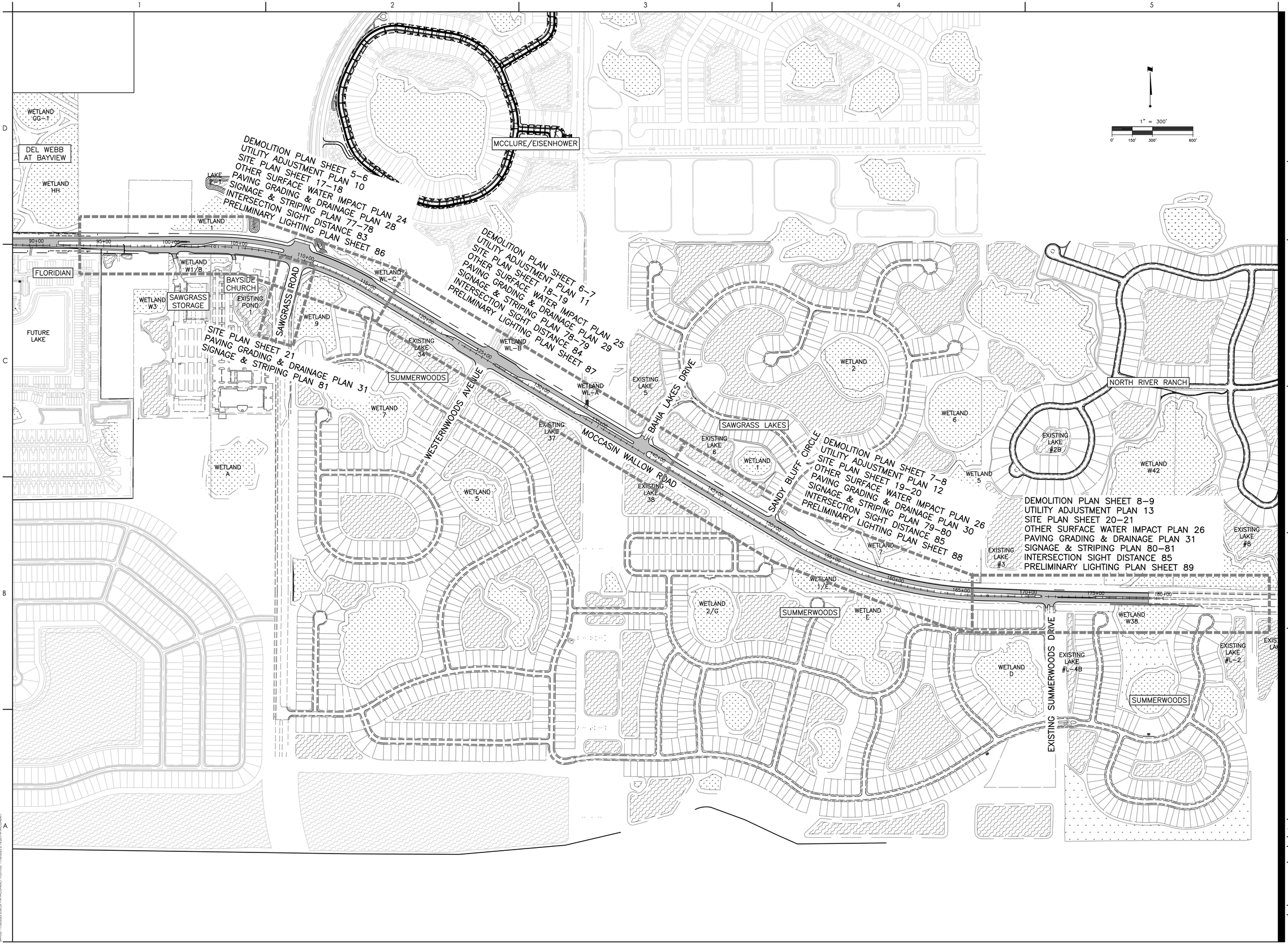
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SITE SURVEY CONTROL SHEET

Revision: Sheet: 3 of 126

Drawing No.
3

ORIGINAL SHEET - ARCH D



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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-101SP
Scale: 1" = 300'

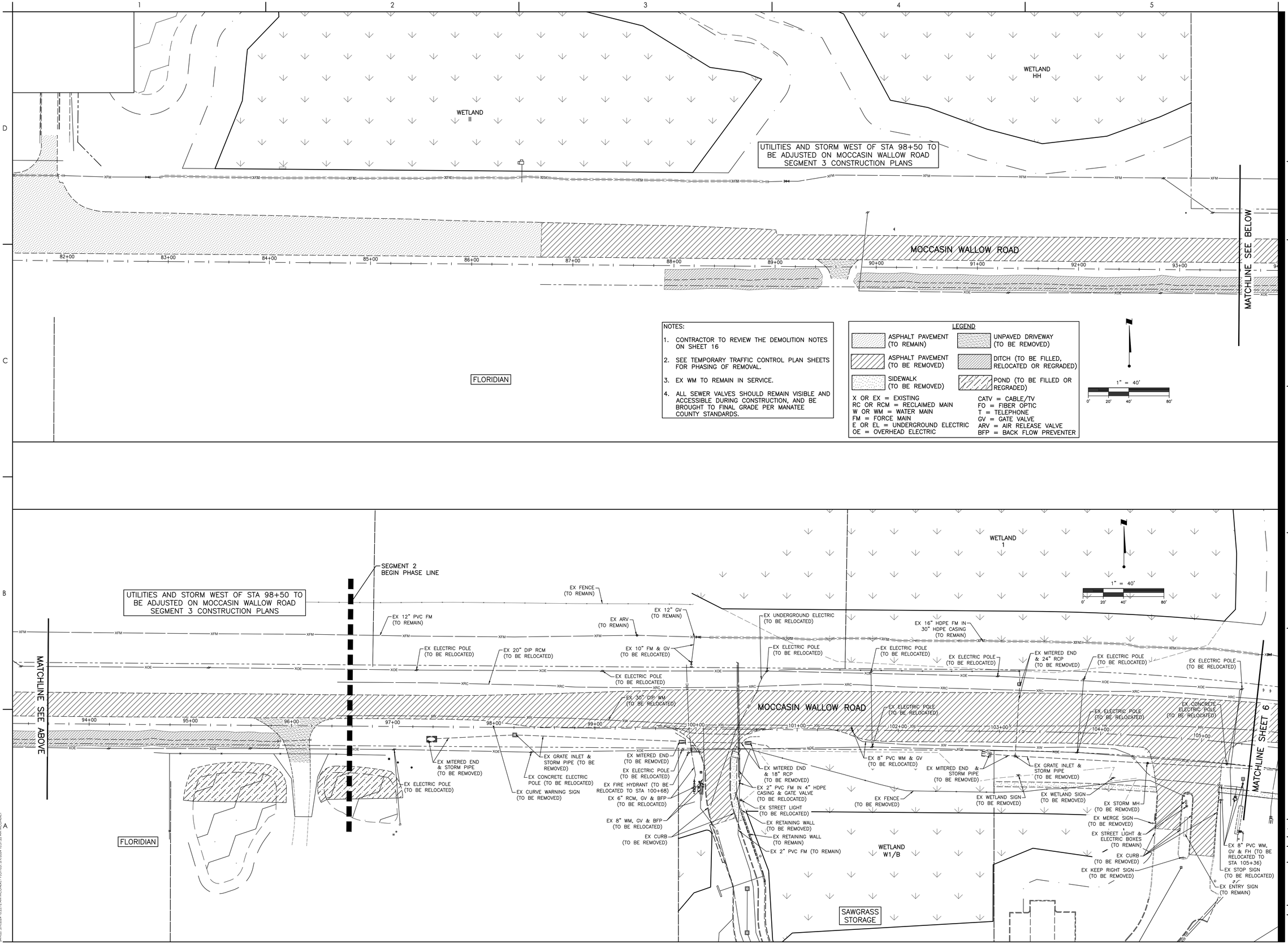
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
MASTER SITE PLAN AND KEY SHEET

Revision: Sheet: 4 of 126

Drawing No.
4

ORIGINAL SHEET - ARCH D



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No.	Revision	By	Appd	YYYY.MM.DD
8.	ADDED STATIONS	MSC		5/9/24

Issued

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-103DP
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DEMOLITION PLAN

Revision: Sheet: 5 of 126
Drawing No.
5

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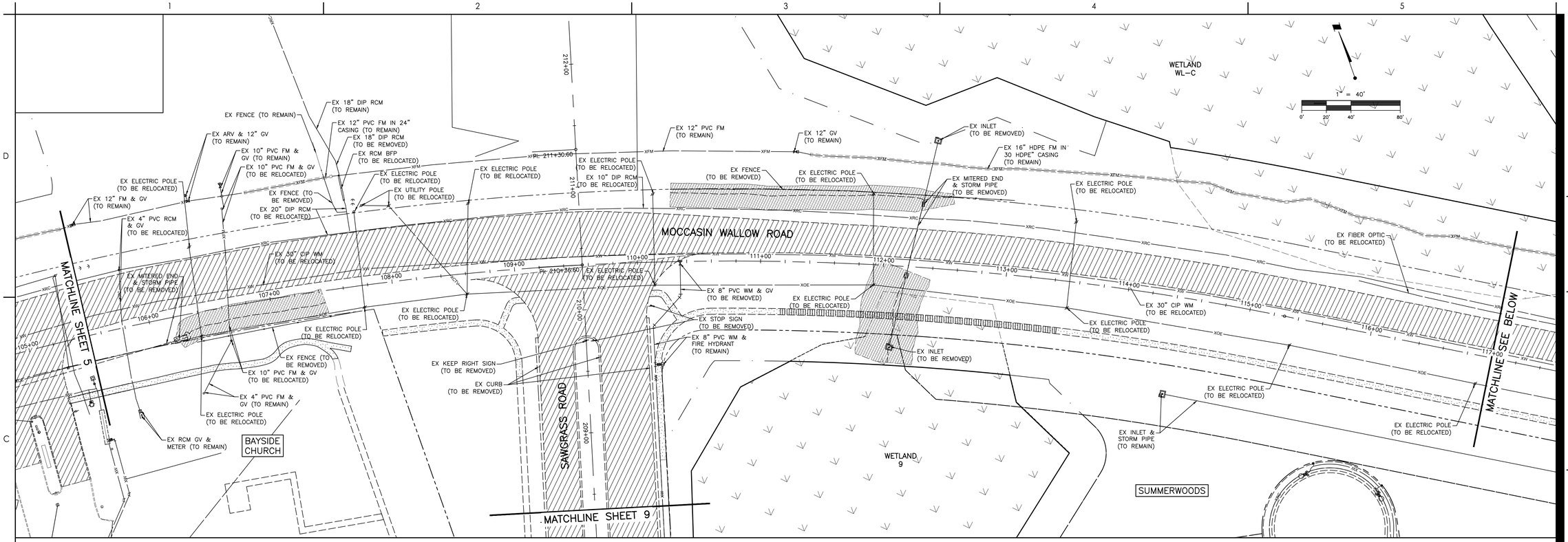
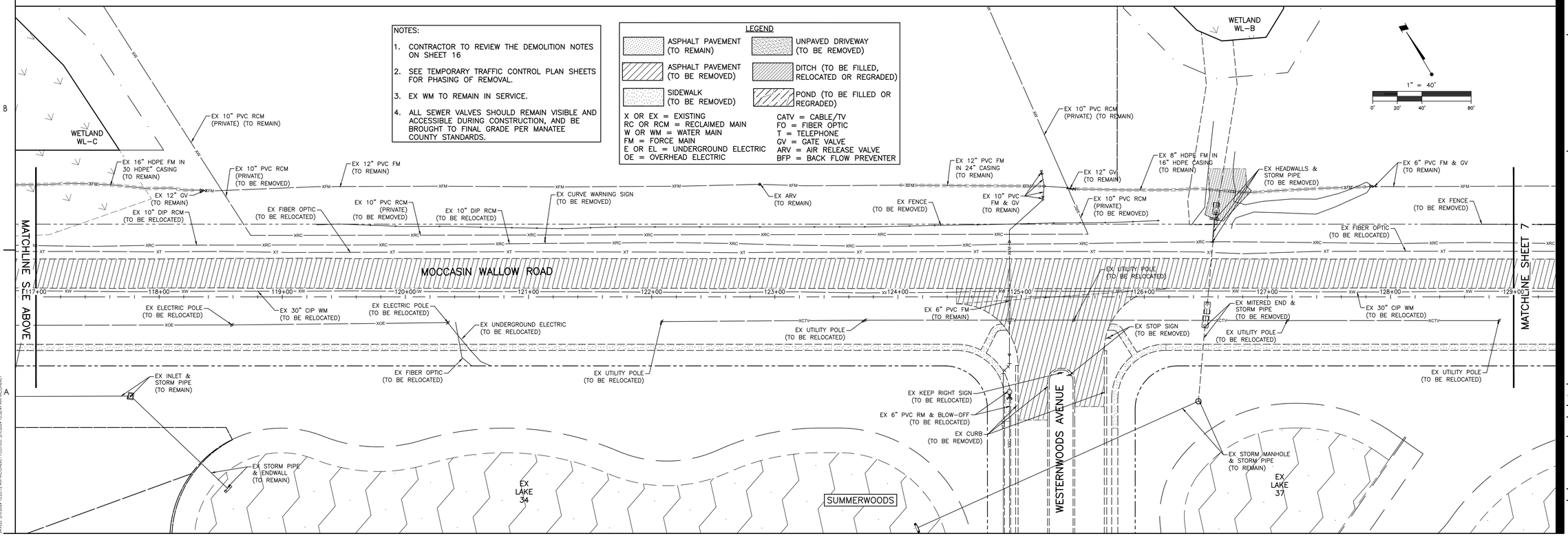
SAVED: 5/9/2024 10:23:12 AM MCOMER PLOTTED: 5/9/2024 10:31:22 AM MCOMER
ORIGINAL SHEET - ARCH D





NOTES:

1. CONTRACTOR TO REVIEW THE DEMOLITION NOTES ON SHEET 16
2. SEE TEMPORARY TRAFFIC CONTROL PLAN SHEETS FOR PHASING OF REMOVAL.
3. EX WM 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)
- DITCH (TO BE FILLED, RELOCATED OR REGRADED)
- POND (TO BE FILLED OR REGRADED)

X OR EX = EXISTING
RC OR RCM = RECLAIMED MAIN
W OR WM = WATER MAIN
FM = FORCE MAIN
E OR EL = UNDERGROUND ELECTRIC
OE = OVERHEAD ELECTRIC
CATV = CABLE/TV
FO = FIBER OPTIC
T = TELEPHONE
GV = GATE VALVE
ARV = AIR RELEASE VALVE
BFP = BACK FLOW PREVENTER

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Issued	By	Appd	YYYY.MM.DD
B: REV. RC & SIGN TO BE REMOVED	MSC	Appd	5/9/24
Revision	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

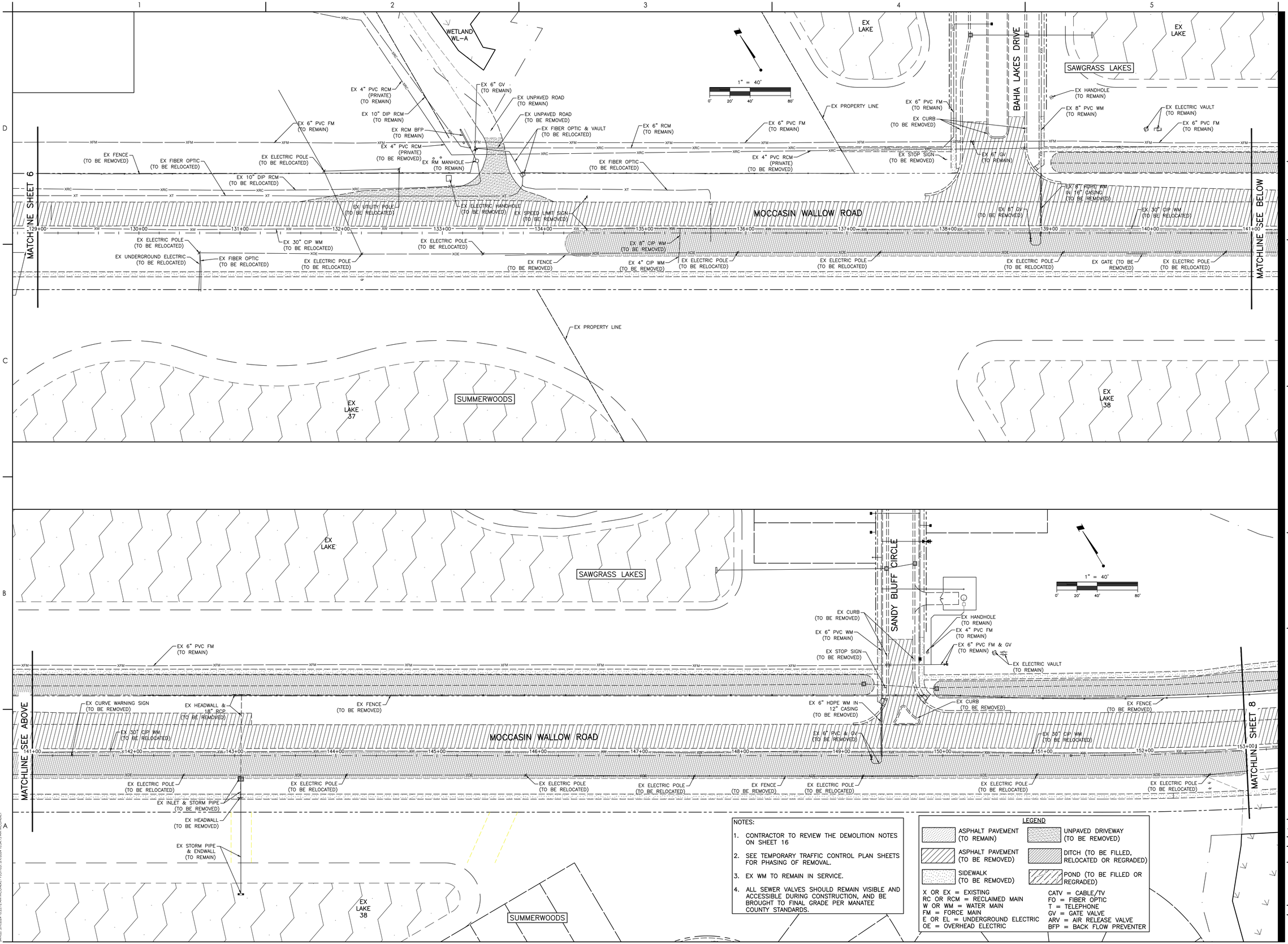
Project No.: 215617221
File Name: 215617221-01C-103DP
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DEMOLITION PLAN

Revision: Sheet: 6 of 126
Drawing No.
6

x:\215\active\215617221\civil\drawing\01c_cons\sheet_files\215617221-01c-103dp\Layout2
SAVED: 5/9/2024 10:23:12 AM MICHAEL.CHANEY PLOTTED: 5/9/2024 10:23:24 AM MICHAEL.CHANEY
ORIGINAL SHEET - ARCH D



NOTES:

1. CONTRACTOR TO REVIEW THE DEMOLITION NOTES ON SHEET 16
2. SEE TEMPORARY TRAFFIC CONTROL PLAN SHEETS FOR PHASING OF REMOVAL.
3. EX WM 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)
- DITCH (TO BE FILLED, RELOCATED OR REGRADED)
- POND (TO BE FILLED OR REGRADED)

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Issued	By	Appd	YYYY.MM.DD
B: REV. WM & SIGN TO BE REMOVED	MSC		5/9/24
Revision	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-103DP
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DEMOLITION PLAN

Revision: Sheet: 7 of 126
Drawing No.
7

x:\215\active\215617221\civil\drawing\01c_cons\sheet_files\215617221-01c-103dp\Layout3
SAVED: 5/9/2024 10:25:12 AM BY: CONNER.T PLOTTED: 5/9/2024 10:34:13 AM BY: CONNER.T
ORIGINAL SHEET - ARCH D

105 LF 30" RCP @ 0.20%
EXISTING 12" GATE VALVE (ADJUST TO GRADE) 12"X16" REDUCER
EXISTING 10" GATE VALVE (ADJUST TO GRADE)
CAP EXISTING 10" PVC FORCE MAIN
EXISTING ARV (ADJUST TO GRADE)
EXISTING 12" GATE VALVE (ADJUST TO GRADE)
20" DIP RECLAIMED MAIN
CONNECT TO EXISTING 12" PVC FORCE MAIN WITH 10" WYE
20"x4" TEE (2) 20" GATE VALVE 4" GATE VALVE
10" GATE VALVE
EXISTING 10" GATE VALVE (ADJUST TO GRADE) EXISTING 12"X10" CROSS
CONSTRUCT RECLAIMED MAIN OVER FORCE MAIN 12" MINIMUM CLEARANCE
EXISTING 12" PVC FORCE MAIN
EXISTING 12" PVC FORCE MAIN IN 24" CASING
RELOCATED RECLAIMED BACKFLOW PREVENTER
20" DIP RECLAIMED MAIN
20" TEE
20" GATE VALVE
10' UTILITY EASEMENT
20" 45° BEND
1" = 20'
0' 10' 20' 40'
12' SHARED USE PATH
10" PLUG
10" PVC FORCE MAIN
TRAFFIC SIGNAL MAST ARM
EXISTING 12" PVC FORCE MAIN
RECLAIMED HYDRANT ASSEMBLY
CONNECT TO EXISTING RECLAIMED
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-A)
10" PVC RECLAIMED MAIN
FUTURE SAWGRASS ROAD
CONNECT TO EXISTING WATER MAIN
12" PVC WATER MAIN
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-A)
TRAFFIC SIGNAL MAST ARM
PI: 211+30.60
CONNECT TO EXISTING 12" PVC FORCE MAIN WITH 10" WYE
CONSTRUCT RECLAIMED MAIN OVER FORCE MAIN 12" MINIMUM CLEARANCE
10" DIP RECLAIMED MAIN (UNDER PAVEMENT)
CONSTRUCT WATER MAIN OVER RECLAIMED MAIN AND FORCE MAIN 12" MINIMUM CLEARANCE
10" GATE VALVE
20"x10"x10"x10" CROSS 20" GATE VALVE (3) 10" GATE VALVE
211+00
MATCHLINE SHEET 38
CONSTRUCT RECLAIMED MAIN OVER FORCE MAIN 12" MINIMUM CLEARANCE
10" PVC FORCE MAIN
CONSTRUCT RECLAIMED MAIN UNDER STORM SEWER 12" MINIMUM CLEARANCE
CLEANOUT
186 LF 18" RCP @ 0.20%
CONSTRUCT STORM SEWER OVER FORCE MAIN 12" MINIMUM CLEARANCE
50 LF 6" TYPE "C" UNDERDRAIN
50 LF 6" TYPE "C" UNDERDRAIN STR #2-1G FDOT TYPE P-6 <10' TOP EL = 27.39 INV EL = 22.24 S INV EL = 22.40 W UNDERDRAIN INV EL = 22.53
CLEANOUT
30' ASPHALT PAVEMENT
TYPE "F" CURB
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-A)
PROFILE GRADE LINE NORTH
5' CURB TAPER
4" PVC RECLAIMED MAIN IN 12" STEEL CASING
10" PVC FORCE MAIN IN 20" STEEL CASING
121 LF 18" RCP @ 0.20%
150' RIGHT-OF-WAY
5' CURB TAPER
TYPE "AB" MODIFIED CURB
CONSTRUCTION BASELINE
MOCCASIN WALLOW ROAD
10" DIP RECLAIMED MAIN (UNDER PAVEMENT)
12" DIP WATER MAIN (UNDER PAVEMENT)
MATCHLINE SHEET 40
106+00
107+00
108+00
109+00
110+00
PI: 210+36.60
CONSTRUCT WATER MAIN OVER RECLAIMED MAIN 12" MINIMUM CLEARANCE
STR #2-1H FDOT TYPE P-6 <10' TOP EL = 27.05 INV EL = 22.48 N
63' ASPHALT PAVEMENT
PROFILE GRADE LINE SOUTH
CONSTRUCT RECLAIMED MAIN UNDER WATER MAIN 6" MINIMUM CLEARANCE
30"x30"x12"x12" CROSS (2) 30" GATE VALVE (2) 12" GATE VALVE 12"x8" REDUCER
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-B)
TRAFFIC SIGNAL MAST ARM
30" DIP WATER MAIN
30" DIP WATER MAIN
30" WATER MAIN
4" PVC RECLAIMED MAIN
W
STREET LIGHT (TYP)
TYPE "F" CURB
10" 45° BEND
6' CONCRETE SIDEWALK
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-C)
8" PVC WATER MAIN
CONNECT TO EXISTING 8" PVC WATER MAIN
4"X10" REDUCER 4" 45° BEND
CONNECT TO EXISTING 4" PVC RECLAIMED MAIN
CONNECT TO EXISTING 4" PVC FORCE MAIN
10' UTILITY EASEMENT
EXISTING 4" PVC RECLAIMED MAIN
EXISTING 4" GATE VALVE
20' EXISTING UTILITY EASEMENT
TRAFFIC SIGNAL MAST ARM
10" 45° BEND
10" PVC RECLAIMED MAIN
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-B)
CONNECT TO EXISTING SIDEWALK
10" GATE VALVE & PLUG
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-B)
EXISTING 8" PVC WATER MAIN
TRAFFIC SIGNAL MAST ARM
SAWGRASS ROAD
BAYSIDE CHURCH

NORTH & SOUTH PROFILE GRADE LINE
-0.43%
-0.30%
0.30%
0.78%
0.30%
PVI STA = 106+54.94 PVI ELEV = 27.96
PVI STA = 107+04.94 PVI ELEV = 27.81
PVI STA = 107+54.94 PVI ELEV = 27.96
PVI STA = 109+04.94 PVI ELEV = 29.13
PVI STA = 109+54.94 PVI ELEV = 29.28
MATCHLINE STA 105+50
MATCHLINE STA 110+50
SEE SHEET 54 FOR PROFILE
*EXISTING AIR RELEASE VALVE
20"X4" CROSS
EXISTING GROUND±
20" DIP RECLAIMED MAIN
RECLAIMED HYDRANT ASSEMBLY
20" TEE
18" RCP
SEE SHEET 55 FOR PROFILE
20"X10" CROSS
10" DIP RECLAIMED MAIN
SEE SHEET 55 FOR PROFILE
30"X30"X12"X8" CROSS
12" DIP WATER MAIN
*EXISTING 10" PVC FORCE MAIN
12" MIN CLR
18" RCP
4" PVC RECLAIMED MAIN IN 12" CASING @ WATER MAIN & STORM CONFLICT
12" MIN CLR
10" DIP RECLAIMED MAIN
SEE SHEET 55 FOR PROFILE
10" PVC FORCE MAIN
12" MIN CLR
30" DIP WATER MAIN
12" MIN CLR
*EXISTING 12" PVC FORCE MAIN
10" PVC FORCE MAIN IN 20" CASING @ WATER MAIN CONFLICT
SEE SHEET 54 FOR PROFILE
PROVIDE 12" MIN SEPARATION BETWEEN BOTTOM OF STORM SEWER AND TOP OF WATER MAIN
*EXISTING 12" PVC FORCE MAIN IN 24" CASING
10" PVC FORCE MAIN
*EXISTING 12" PVC FORCE MAIN
PROVIDE 12" MIN SEPARATION BETWEEN BOTTOM OF WATER MAIN AND TOP OF RECLAIMED MAIN

*** 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

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Revision	By	Appd	YYYY.MM.DD
B: REV RC MAIN, ADD RC BFP	MSC		5/9/24

Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20151

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PLOTS

Revision: Sheet: 39 of 126
Drawing No.
39

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Layout: 5/9/2024 12:22:23 AM MICHAEL.SCHMIDT PLOTTED: 5/9/2024 12:25 AM MICHAEL.SCHMIDT

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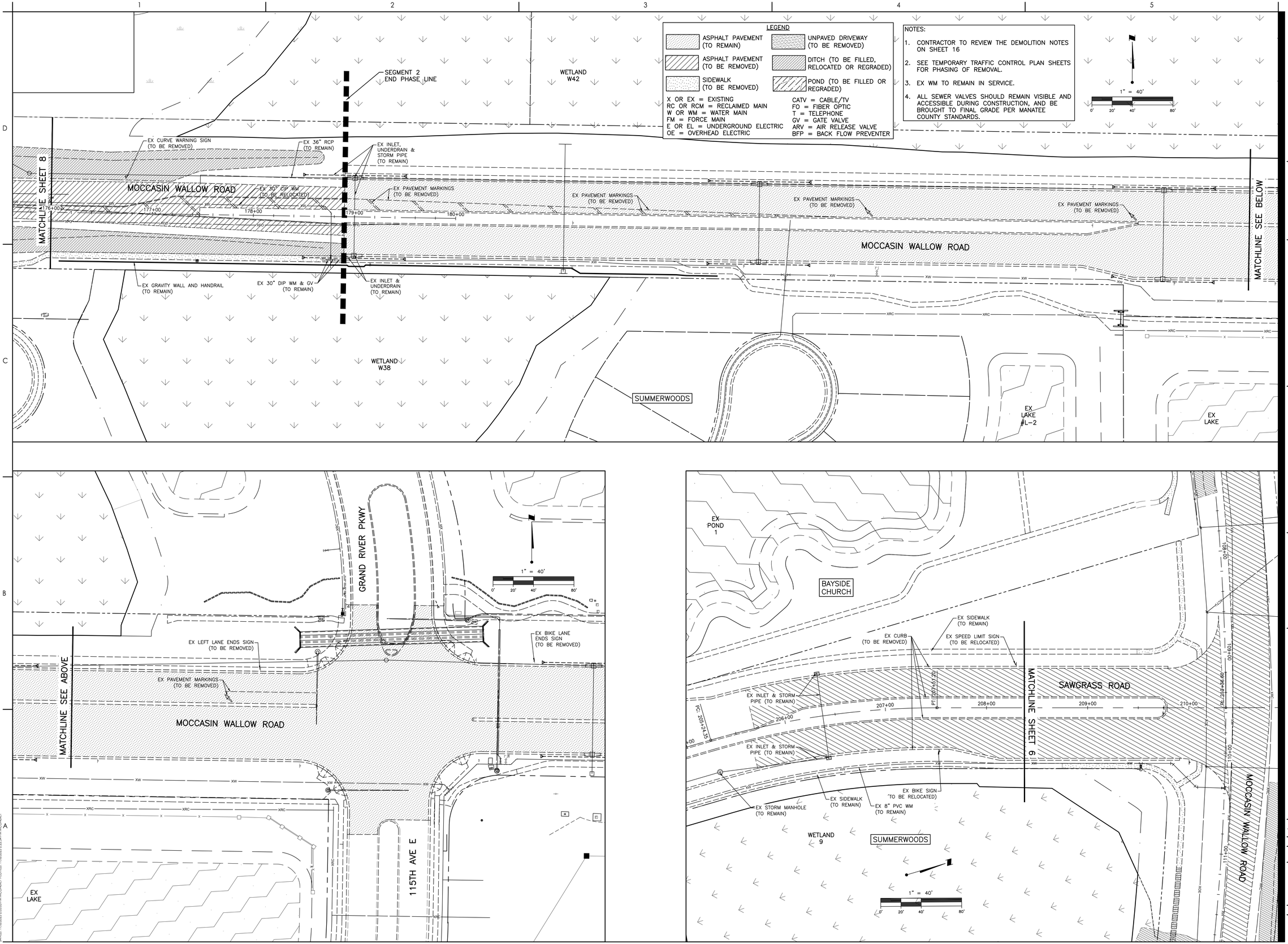

LEGEND

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

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GV = GATE VALVE
ARV = AIR RELEASE VALVE
BFP = BACK FLOW PREVENTER

NOTES:

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2. SEE TEMPORARY TRAFFIC CONTROL PLAN SHEETS FOR PHASING OF REMOVAL.
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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

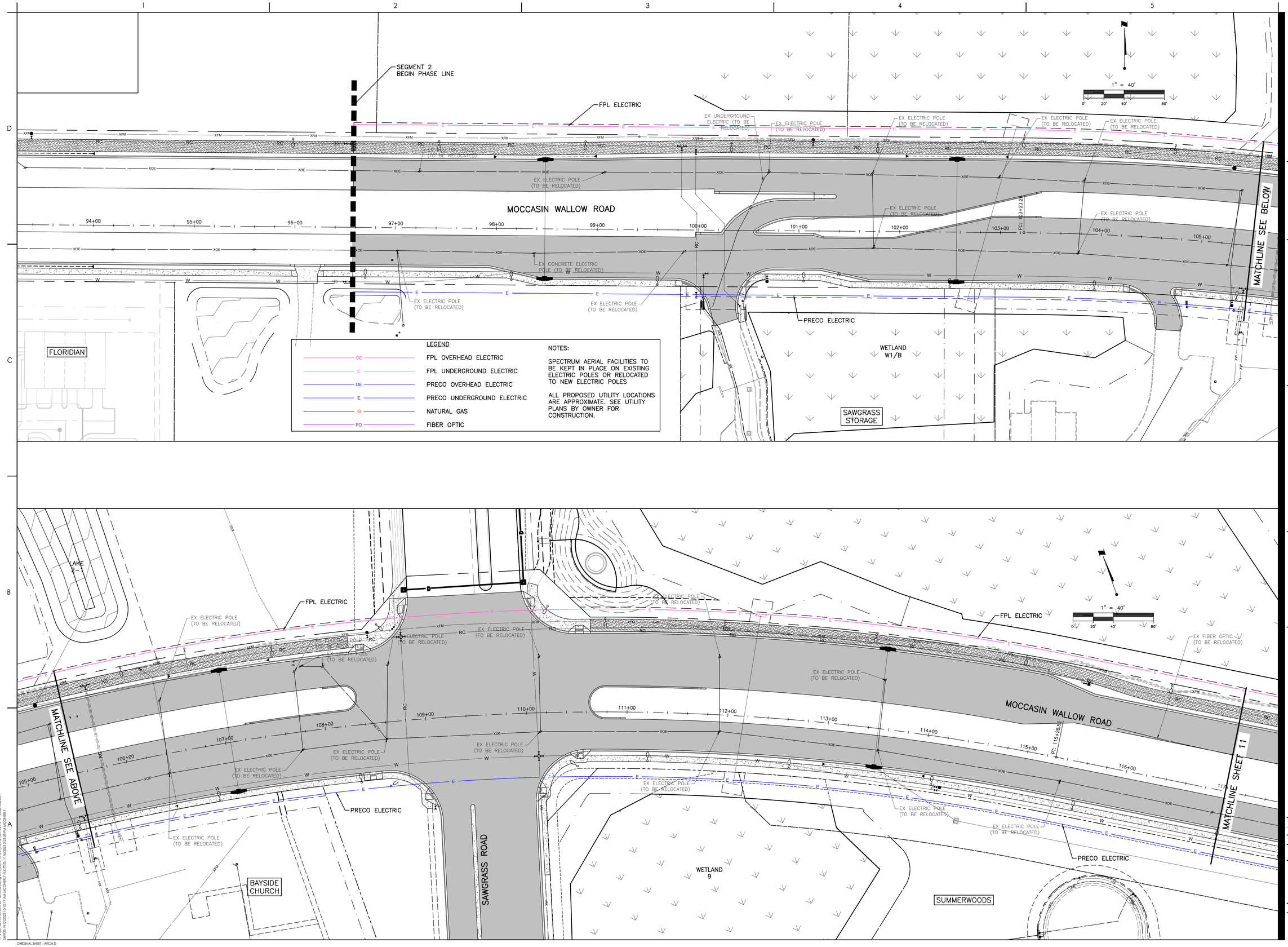
Project No.: 215617221
File Name: 215617221-01C-103DP
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DEMOLITION PLAN

Revision: Sheet: 9 of 126
Drawing No.
9

ORIGINAL SHEET - ARCH D



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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-105DP
Scale: 1" = 40'

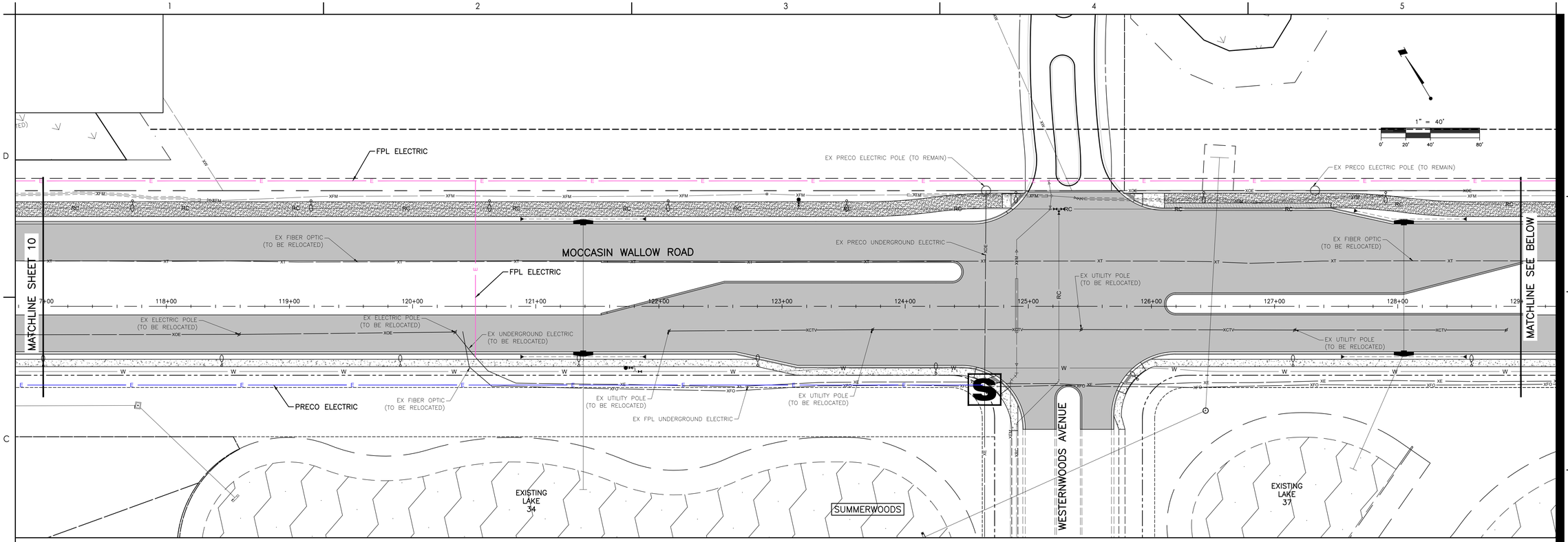
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

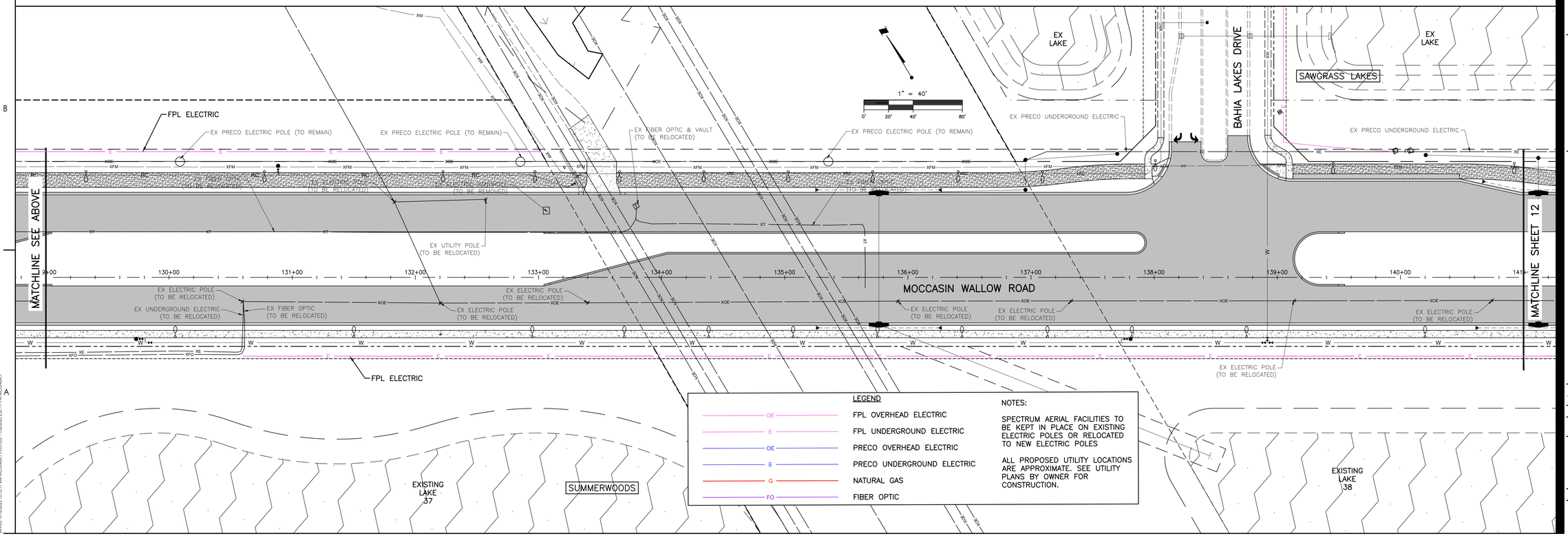
Title
UTILITY ADJUSTMENT PLAN

Revision: Sheet: 10 of 126

Drawing No.
10

ORIGINAL SHEET - ARCH D





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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-105DP
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
UTILITY ADJUSTMENT PLAN

Revision: Sheet: 11 of 126
Drawing No.
11

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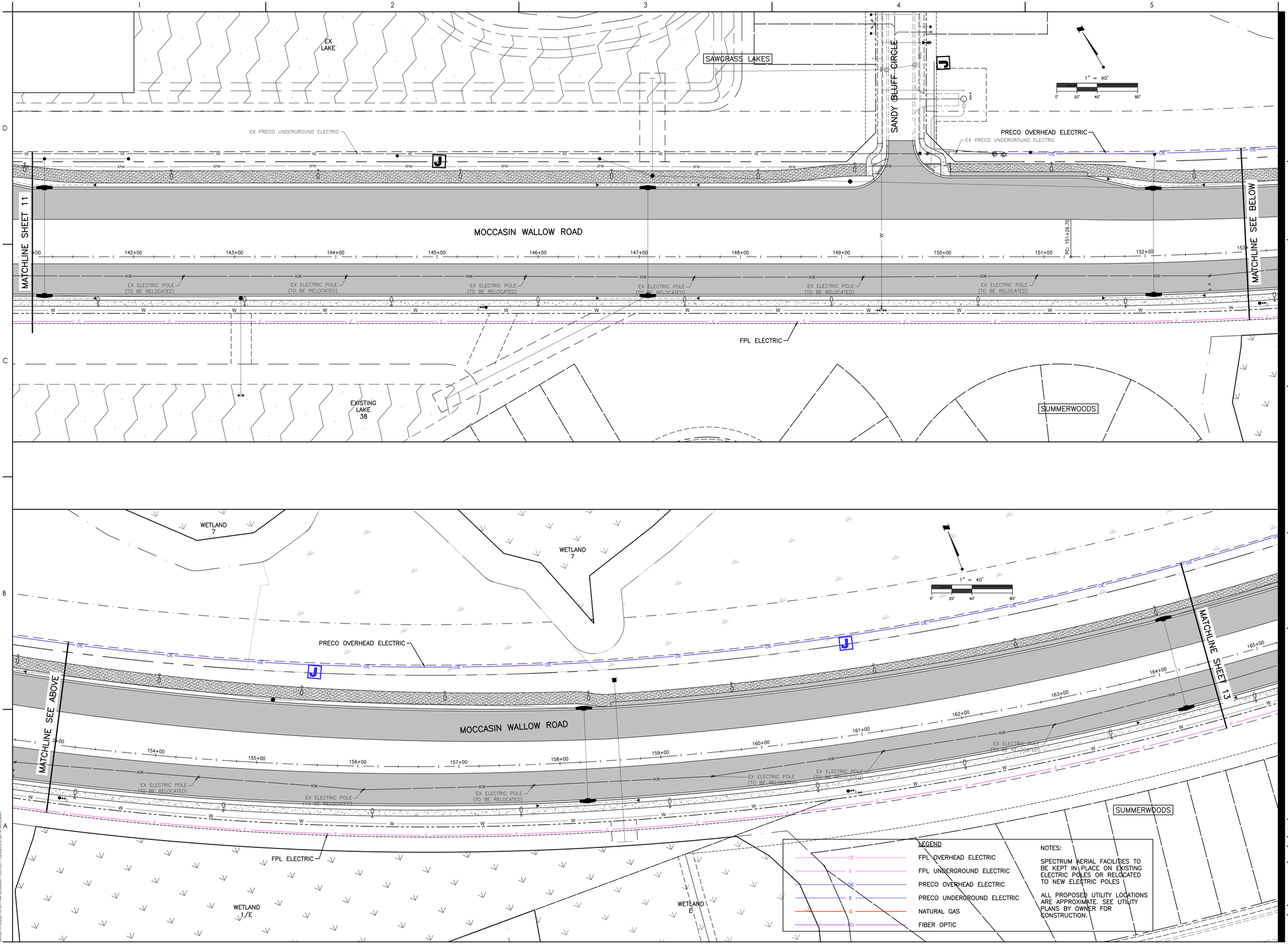

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-105DP
Scale: 1" = 40'

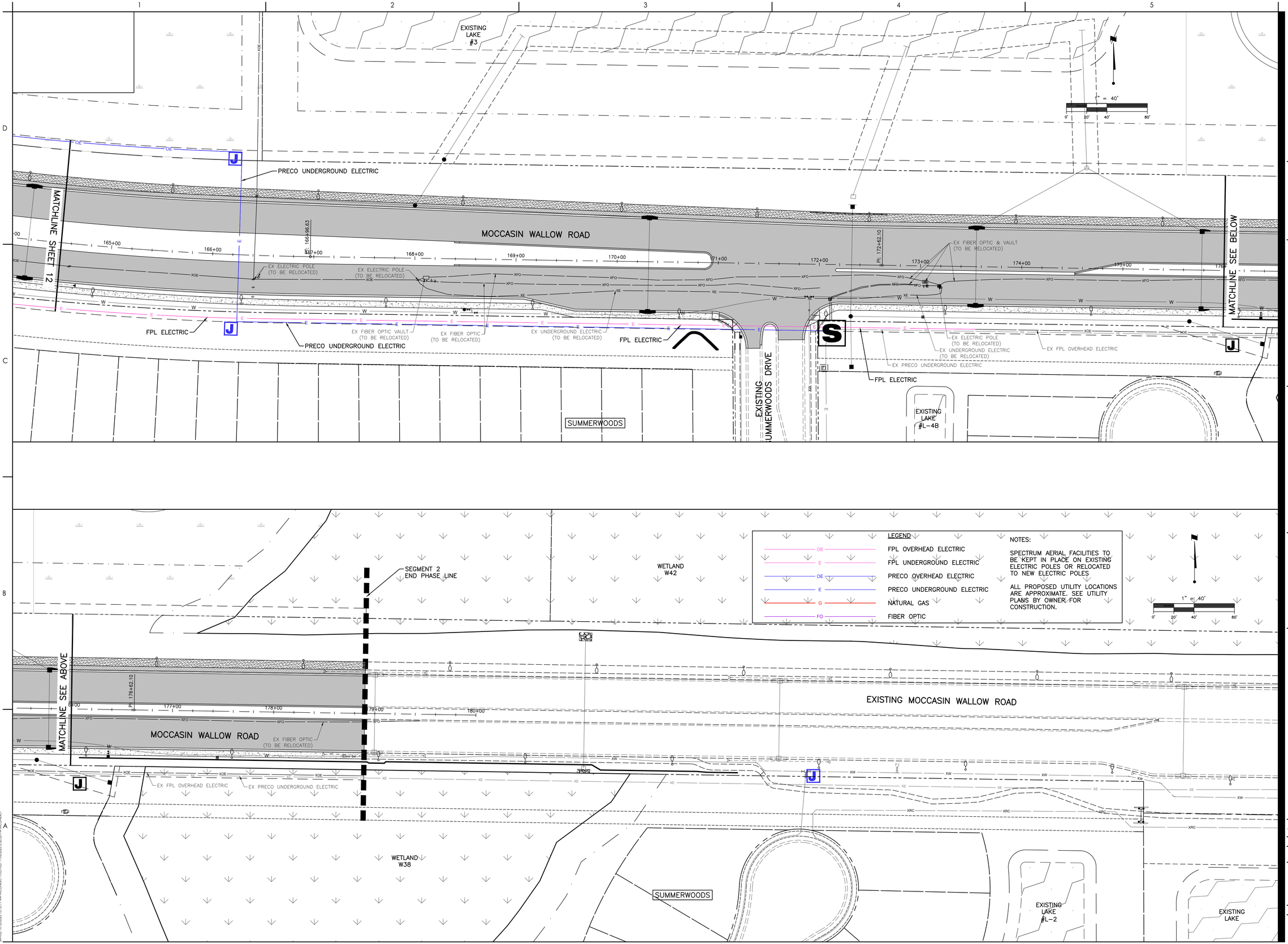
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
UTILITY ADJUSTMENT PLAN

Revision: Sheet: 12 of 126

Drawing No.
12

ORIGINAL SHEET - ARCH D



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Revision

By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-105DP
Scale: 1" = 40'

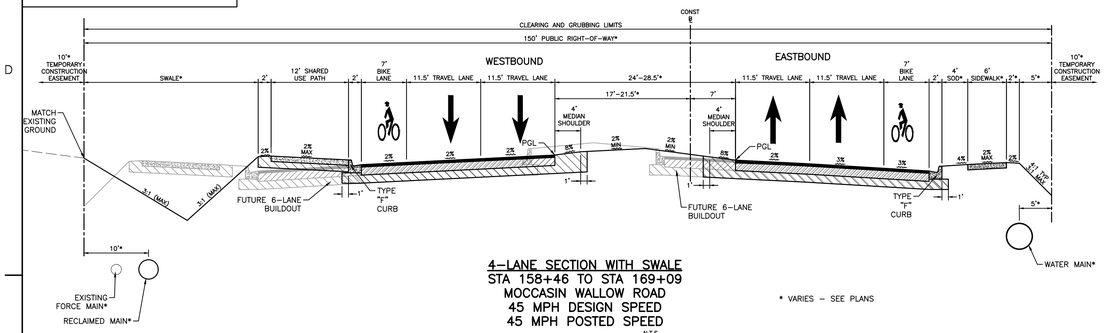
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
UTILITY ADJUSTMENT PLAN

Revision: Sheet: 13 of 126

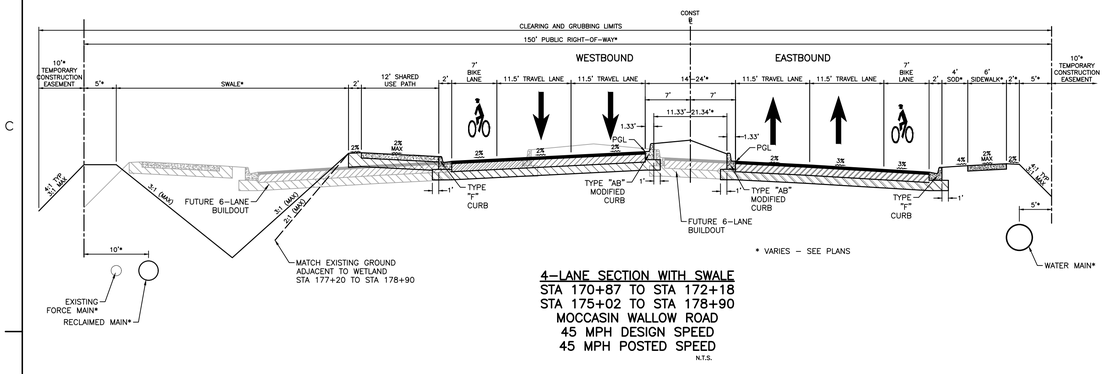
Drawing No.
13

ORIGINAL SHEET - ARCH D



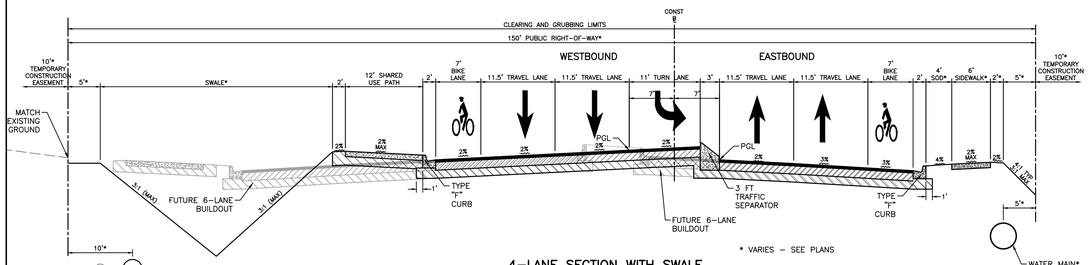
4-LANE SECTION WITH SWALE
STA 158+46 TO STA 169+09
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



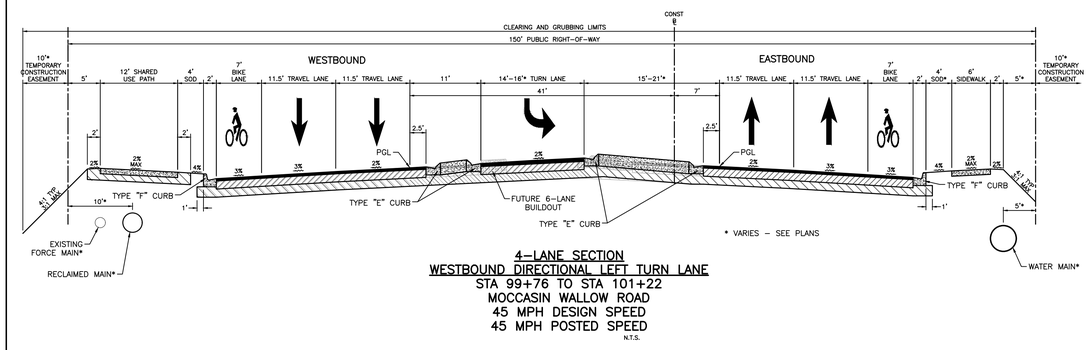
4-LANE SECTION WITH SWALE
STA 170+87 TO STA 172+18
STA 175+02 TO STA 178+90
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



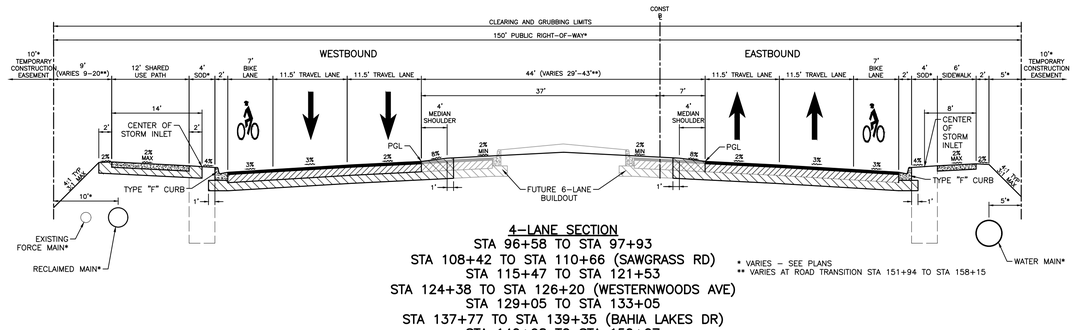
4-LANE SECTION WITH SWALE
WESTBOUND LEFT TURN LANE
STA 172+18 TO STA 175+02
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



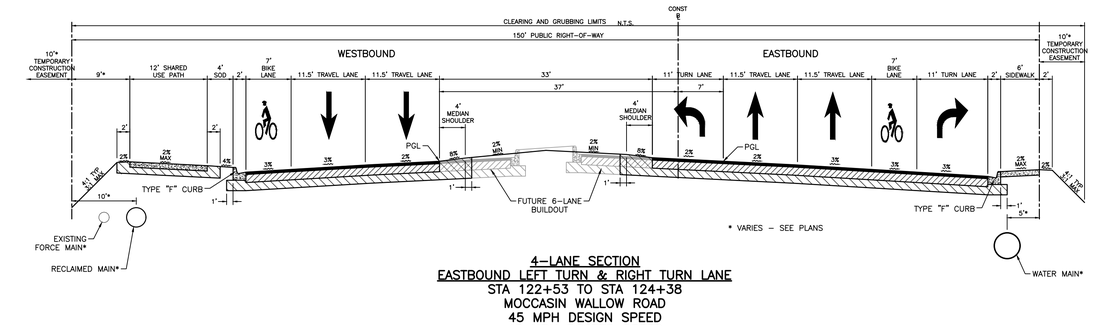
4-LANE SECTION
WESTBOUND DIRECTIONAL LEFT TURN LANE
STA 99+76 TO STA 101+22
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



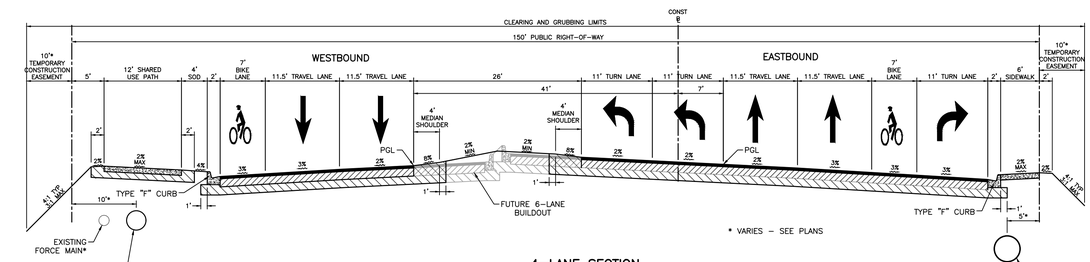
4-LANE SECTION
STA 96+58 TO STA 97+93
STA 108+42 TO STA 110+66 (SAWGRASS RD)
STA 115+47 TO STA 121+53
STA 124+38 TO STA 126+20 (WESTERNWOODS AVE)
STA 129+05 TO STA 133+05
STA 137+77 TO STA 139+35 (BAHIA LAKES DR)
STA 140+98 TO STA 150+07
STA 151+94 TO STA 158+46
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED

* VARIES – SEE PLANS.
** VARIES AT ROAD TRANSITION STA 151+94 TO STA 158+15



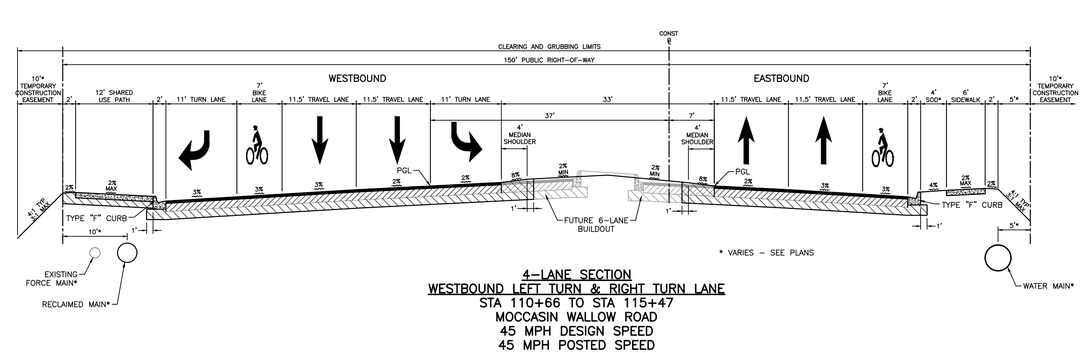
4-LANE SECTION
EASTBOUND LEFT TURN & RIGHT TURN LANE
STA 122+53 TO STA 124+38
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



4-LANE SECTION
EASTBOUND DUAL LEFT TURNS & RIGHT TURN LANE
STA 101+99 TO STA 108+42
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

* VARIES – SEE PLANS



4-LANE SECTION
WESTBOUND LEFT TURN & RIGHT TURN LANE
STA 110+66 TO STA 115+47
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

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ORIGINAL SHEET - ARCH D

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1				
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3				
4				
5				

No.	By	Appd	YYYY.MM.DD	Issued
1				
2				
3				
4				
5				

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-1075C

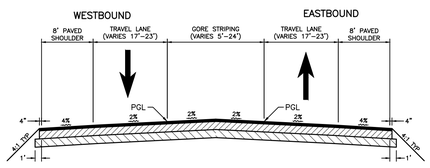
Scale: AS SHOWN

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TYPICAL ROAD SECTIONS

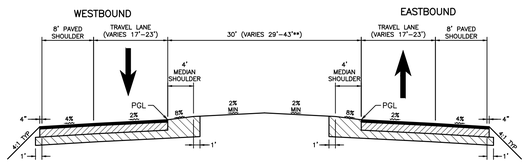
Revision: Sheet: 14 of 126

Drawing No.
14

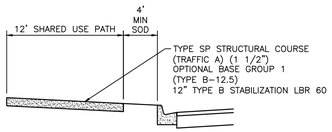


TRANSITION TO EXISTING TWO LANE ROADWAY
STA 86+68 TO STA 91+62
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

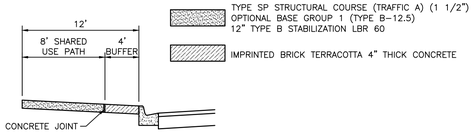
SHOULDERS
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)
OPTIONAL BASE GROUP 1



TRANSITION TO EXISTING TWO LANE ROADWAY
STA 91+62 TO STA 96+58
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.



SHARED USE PATH SECTION
NTS



SHARED USE PATH & BUFFER SECTION
NTS

ASPHALTIC CONCRETE SURFACE COURSE SHALL BE:
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (3")
FRICTION COURSE FC-12.5 (TRAFFIC LEVEL C) (1.5")

BASE COURSE SHALL CONSIST OF:
OPTIONAL BASE COURSE 9

STABILIZED SUB-BASE SHALL BE:
12" TYPE B STABILIZATION LBR 60

MOCCASIN WALLOW ROAD & SAWGRASS ROAD PAVING SECTION

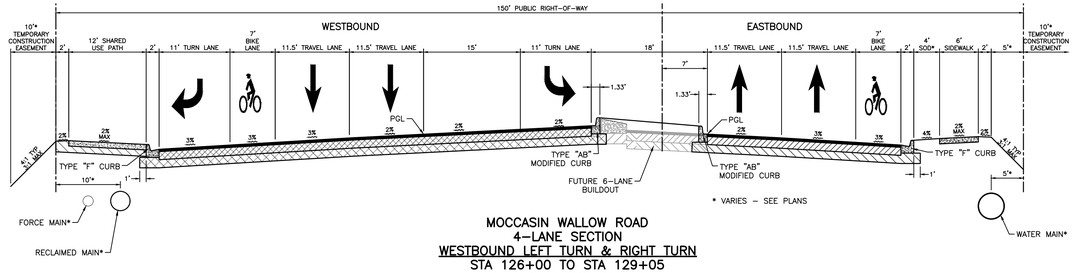
(PER MANATEE COUNTY DETAIL 401.1 & 401.2)

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.

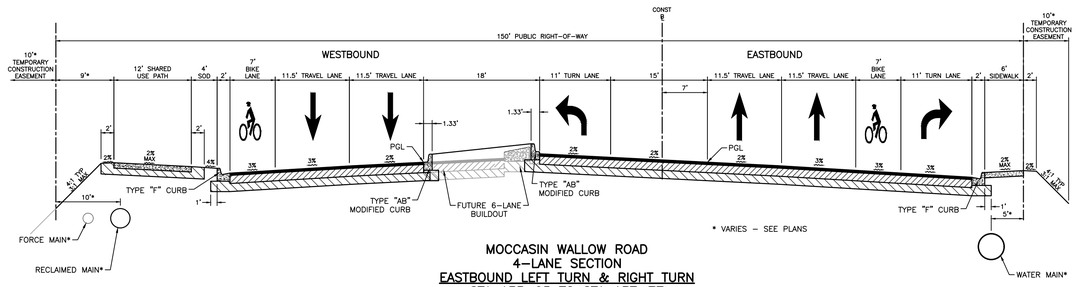
TRAFFIC DATA

CURRENT YEAR	2021 AADT = 11,900
ESTIMATED OPENING YEAR	2025 AADT = 16,600
ESTIMATED DESIGN YEAR	2045 AADT = 40,400

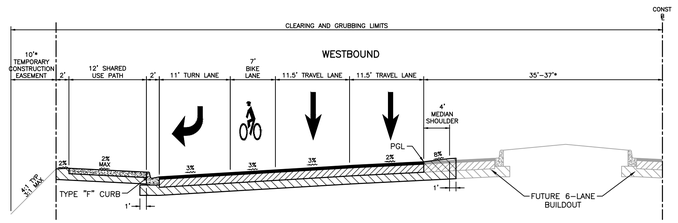
K = 9% D = 60% T = 12% (24 HOUR)
DESIGN HOUR T = 8%
DESIGN SPEED = 45 MPH
POSTED SPEED = 45 MPH
TARGET SPEED = 45 MPH



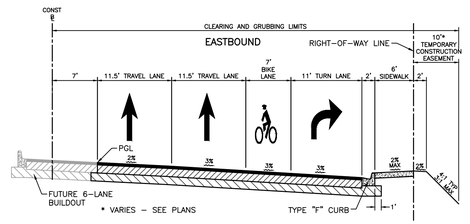
MOCCASIN WALLOW ROAD
4-LANE SECTION
WESTBOUND LEFT TURN & RIGHT TURN
STA 126+00 TO STA 129+05
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.



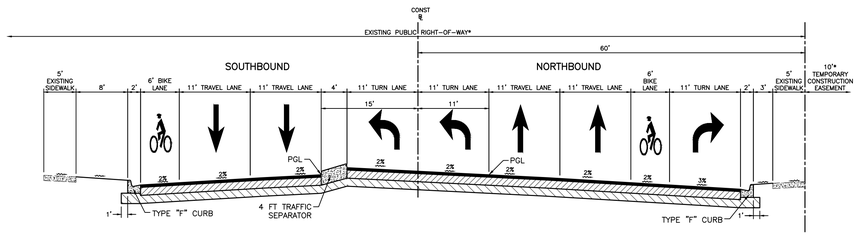
MOCCASIN WALLOW ROAD
4-LANE SECTION
EASTBOUND LEFT TURN & RIGHT TURN
STA 133+05 TO STA 137+77
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.



WESTBOUND RIGHT TURN LANE
STA 139+35 TO STA 140+98
STA 150+07 TO STA 151+94
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.



EASTBOUND RIGHT TURN LANE
STA 97+93 TO STA 99+76
STA 101+22 TO STA 101+99
STA 169+09 TO STA 170+87
MOCCASIN WALLOW ROAD
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.



SAWGRASS ROAD
NORTHBOUND DUAL LEFT TURN & RIGHT TURN
STA 205+63 TO STA 209+67
45 MPH DESIGN SPEED
45 MPH POSTED SPEED
N.T.S.

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No.	By	Appd	YYYY.MM.DD	Revision
1				
2				

No.	By	Appd	YYYY.MM.DD	Issued
1				
2				

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-107SC
Scale: AS SHOWN

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TYPICAL ROAD SECTIONS

Revision: Sheet: 15 of 126
Drawing No.
15

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GENERAL SITE CONSTRUCTION NOTES

1. THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
2. 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.
3. 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 SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
4. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER.
5. NOTIFY "SUNSHINE STATE ONE CALL (1–800–432–4770), 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.
6. 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 THE ENGINEER.
7. CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
8. PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND 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 NRD THE CONTRACTOR SHALL NOTIFY THE ENGINEER & MANATEE COUNTY NRD WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM MANATEE COUNTY.
9. 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 EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
10. LOCATION OF ALL STORM STRUCTURES (WEIR, MITERED END, CONTROL STRUCTURE, GRATE INLET, ETC.) ADJACENT TO A WETLAND SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE AFTER SURVEY STAKE OUT AND PRIOR TO INSTALLATION.
11. THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWFWMD PERMIT FOR THE PROJECT ON SITE.
12. ALL CONCRETE PIPE IN R/W SHALL HAVE A FILTER FABRIC JACKET 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.
13. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
14. 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.
15. THRUST BLOCKS AND JOINT RESTRAINTS DETAILS ON THE WATER DISTRIBUTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, RECLAIMED & WATER MAINS.
16. TRENCH DETAILS ON THE WASTEWATER COLLECTION CONSTRUCTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, RECLAIMED & WATER MAINS.
17. THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWFWMD ERP INFORMATION MANUAL (2018) AND THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS (2020).
18. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009) AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (2022), TRAFFIC CONTROL THROUGH WORK ZONES, INDEX 102–600.
19. UNSUITABLE MATERIAL ENCOUNTERED IN THE CONSTRUCTION AREA SHALL BE REMOVED PER FDOT INDEX 120–002. FDOT INDEX 120–001 SHALL BE FOLLOWED FOR THE REQUIREMENT OF MATERIAL TO BE USED FOR EMBANKMENT.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE TO EXISTING ABOVE GROUND AND BELOW GROUND FACILITIES THAT RESULT FROM THE CONTRACTOR PERFORMING WORK UNDER THIS CONTACT. ALL RESTORATION WORK SHALL RESULT IN A REPAIR THAT IS EQUAL TO OR BETTER THAN THE UTILITY SYSTEM, ABOVE GROUND FEATURE OR BELOW GROUND FEATURE DAMAGED. REPAIRS SHALL BE MADE WITH NEW MATERIALS EQUAL TO CURRENT COUNTY STANDARD. IN THE EVENT OF DAMAGE TO AN EXISTING RECLAIMED WATER SERVICE OR POTABLE WATER SERVICE LINE, THE REPAIR SHALL INCLUDE COMPLETE REPLACEMENT OF THE LINE FROM SERVICE CONNECTION TO CUSTOMER SERVICE WITH NO PATCH/SPLICE REPAIRS ALLOWED. NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH REPAIRS.
21. MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS ARE THE MINIMUM ALLOWABLE WATER AND/OR WASTEWATER CONSTRUCTION STANDARDS. WHERE ANY NOTE OR DETAIL ON THESE PLANS CONFLICT WITH THE MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS THE MORE STRINGENT INTERPRETATION, AS DETERMINED BY THE COUNTY INFRASTRUCTURE INSPECTOR, SHALL BE APPLIED.
22. POSITIVE DRAINAGE IS TO BE MAINTAINED DURING CONSTRUCTION AND DEMOLITION PHASES.
23. ALL CONSTRUCTION WITHIN MANATEE COUNTY RIGHT–OF–WAY IS TO BE PER MANATEE COUNTY PUBLIC WORKS STANDARDS: UTILITY (2020), STORMWATER (2015), HIGHWAY AND TRAFFIC (2022).
24. ALL OF THE SIGNING AND PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH MUTCD (2009), FDOT DESIGN STANDARDS (2022) AND MANATEE COUNTY PUBLIC WORKS DEPARTMENT HIGHWAY AND TRAFFIC STANDARDS (2022).

LEGEND

EXISTING TOPOGRAPHIC SURVEY LEGEND

00.00BC	=	BACK OF CURB
00.00CL	=	CENTER LINE
00.00DC	=	DITCH CENTER
00.00EP	=	EDGE OF PAVEMENT
00.00ES	=	EDGE OF SHELL/LIMEROCK
00.00FB	=	FENCE, BARB WIRE
00.00FC	=	FENCE, CHAIN LINK
00.00FL	=	FLOW LINE
00.00GB	=	GRADE BREAK
00.00HW	=	HEADWALL
00.00PL	=	LANDSCAPE PLANTER
00.00RIM	=	RIM OF MANHOLE
00.00SW	=	EDGE OF CONCRETE/WALK
00.00TB	=	TOP OF BANK
00.00TG	=	TOP OF GRATE
00.00TS	=	TOE OF SLOPE
00.00WL	=	WALL/SEAWALL
00.0	=	GROUND ELEVATION
△30"	=	CEDAR
◯30"	=	OAK
◎10"	=	ORNAMENTAL
△30"	=	PALM
▨30"	=	PINE
◯30"	=	UNKNOWN
Ⓢ	=	SHRUB

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

FEMA 100 YEAR FLOOD ZONE

DIRECTION OF DRAINAGE FLOW

EXISTING CONTOUR (NAVD–88) XX

PROPOSED GRADE XX.XX

GROUND GRADE = GND
HIGH POINT GRADE = HP
LOW POINT GRADE = LP
MATCH EXISTING GRADE = ME
FLOW LINE GRADE = FL
POINT OF VERTICAL INTERSECTION = PVI

ALL SIDE SLOPES ARE DISPLAYED AS H:V 4:1

MITERED END SECTION

STORM CLEANOUT

MANHOLE

INLET

ENDWALL/HEADWALL

CONTROL STRUCTURE

EXISTING ASPHALT

WETLAND

WETLAND PRESERVATION

UNSUITABLE MATERIAL

EXISTING LAKE

PROPOSED ASPHALT

CONCRETE SIDEWALK

SHARED USE PATH

SHARED USE BUFFER

TRENCH NOTES

1. HORIZONTAL OR VERTICAL SEPARATION OF PIPES AS REFERRED TO IN THESE NOTES SHALL BE DEFINED TO BE THE MEASUREMENT FROM OUTSIDE OF PIPE TO OUTSIDE OF PIPE.
2. A STANDARD MINIMUM 12 INCHES OF VERTICAL CLEARANCE SHALL BE PRACTICED FOR WATER, GRAVITY SEWER RECLAIMED WATER, STORM AND FORCE MAIN PIPES THAT CROSS. WHERE IT IS DEMONSTRATED AND THE COUNTY AGREES THAT STANDARD SEPARATIONS ARE NOT REALISTIC, OR WHERE MAINTENANCE OF A PIPE WOULD BE MADE MORE ACCESSIBLE THE COUNTY ENGINEER MAY APPROVE REDUCTIONS OF THE STANDARD SEPARATIONS AS FOLLOWS:
   A. CLEARANCE FROM WATER MAINS TO GRAVITY SEWER MAY BE REDUCED TO 6 INCHES WHEN WATER IS DI.
   B. CLEARANCE FROM WATER MAINS TO FORCE MAINS AND RECLAIMED WATER MAY BE REDUCED TO 6 INCHES WHEN WATER IS ABOVE.
   C. CLEARANCE FROM WATER MAINS TO STORM SEWER MAY BE REDUCED TO 6 INCHES WHEN WATER IS DI AND GASKETS ARE NBR OR FKM.
3. A STANDARD MINIMUM OF HORIZONTAL CLEARANCE SHALL BE PRACTICED AS FOLLOWS:
   A. MINIMUM OF 6 FEET (PREFERABLY 10 FEET) IS REQUIRED BETWEEN:
      WATER MAINS AND:
      • GRAVITY SEWER
      • FORCE MAINS
      GRAVITY SEWER AND:
      • STORM SEWER
   B. MINIMUM OF 3 FEET OF IS REQUIRED BETWEEN:
      WATER MAINS AND:
      • GRAVITY SEWER
      • RECLAIMED WATER (UNLESS RECLAIMED MAIN IS NOT REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C., THEN HORIZONTAL SEPARATION REQUIRED IS 6 FEET, PREFERABLY 10 FEET)
      RECLAIMED WATER AND:
      • STORM SEWER
      • GRAVITY SEWER
      • FORCE MAINS
      FORCE MAINS AND:
      • GRAVITY SEWER
      • STORM SEWER
   C. MINIMUM OF 5 FEET OF IS REQUIRED BETWEEN ROADSIDE UNDERDRAINS AND WATER MAINS, GRAVITY SEWER, FORCE MAINS, RECLAIMED WATER.
4. TRENCH SHALL BE BRACED OR SHORED IN ACCORDANCE WITH THE "FLORIDA TRENCH & SAFETY ACT".
5. WIDTH OF TRENCH BOTTOM SHALL BE OUTSIDE DIAMETER OF PIPE PLUS TEN INCHES (10") EACH SIDE, MAXIMUM FOR PIPES LESS THAN 24" DIAMETER.
6. CONTRACTOR SHALL PLACE METALLIC BURIAL IDENTIFICATION TAPE DIRECTLY ABOVE SEWER LINES IN CONFORMANCE WITH COUNTY CODE.
7. DISCHARGE FROM DEWATERING OPERATION SHALL BE DISPOSED OF IN SUCH A MANNER THAT IT SHALL NOT INTERFERE WITH THE NORMAL DRAINAGE OF THE AREA IN WHICH THE WORK IS BEING PERFORMED, CREATE A PUBLIC NUISANCE OR FORM PONDING. THE OPERATIONS SHALL NOT CAUSE INJURY TO ANY PORTION OF THE WORK COMPLETED, OR IN PROGRESS, OR TO THE SURFACE OF STREETS, OR TO PRIVATE PROPERTY.
8. THE PROPOSED DEWATERING METHOD(S) AND SCHEDULE SHALL BE COORDINATED WITH THE UTILITY AND/OR THE ENGINEER OF RECORD AND OTHER NECESSARY REGULATORY AGENCIES PRIOR TO CONSTRUCTION. ADDITIONALLY, WHERE PRIVATE PROPERTY SHALL BE INVOLVED, ADVANCE PERMISSION SHALL BE OBTAINED BY THE CONTRACTOR AND/OR DEVELOPER.

AS–BUILT NOTES

1. TOP OF PIPE ELEVATIONS FOR ALL POTABLE WATER AND GRAVITY SEWER MAINS ARE REQUIRED EVERY ONE HUNDRED FEET(100') AND/OR AT EACH STRUCTURE, FITTING OR CHANGE IN GRADE.
2. RECORD DRAWINGS, IF PREPARED BY THE CONTRACTOR OR CONTRACTORS SURVEYOR. DRAFT COPIES OF THE RECORD DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER PRIOR TO FINALIZING THE DRAWINGS. ONCE ACCEPTABLE TO THE ENGINEER THE CONTRACTOR/SURVEYOR WILL PROVIDE 9 SETS OF SIGNED AND SEALED FINALIZED DRAWINGS FOR SUBMITTAL TO THE COUNTY. ONCE THE DRAWING ARE APPROVED BY THE COUNTY, CONTRACTOR/SURVEYOR IS RESPONSIBLE TO PROVIDE THE ENGINEER OF RECORD ONE SET OF MYLARS AND A DIGITAL COPY OF RECORD DRAWINGS IN CAD AND PDF FORMAT, RECORD INFORMATION SHALL BE ON UNIQUE LAYER(S) AND TEXT SHALL USE A STANDARD AUTOCAD FONT.

DEMOLITION NOTES

1. ALL MATERIAL REMOVED FROM THE SITE BY THE CONTRACTOR SHALL BE DISPOSED OF BY THE CONTRACTOR IN A LEGAL MANNER.
2. DEMOLITION SHALL BE DONE IN AN ORDERLY MANNER, ANY DAMAGE TO FACILITIES TO REMAIN SHALL BE PROMPTLY REPLACED BY CONTRACTOR. SEE GENERAL SITE CONSTRUCTION NOTE #24.
3. SAW CUTTING IS REQUIRED FOR REMOVAL OF CONCRETE OR ASPHALT TO LEAVE CLEAN JOINTS AT FACILITIES TO REMAIN.
4. THE CONTRACTOR SHALL COORDINATE WITH UTILITY PROVIDERS FOR THE REMOVAL OR RELOCATION OF ANY MATERIALS AND EQUIPMENT.

1. WATER DISTRIBUTION GENERAL NOTES

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS.

1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING. RECLAIMED MAINS TIE–INS REQUIRING RECLAIMED SERVICE TO BE SHUT OFF SHALL BE MADE WHEN REQUIRED BY MANATEE COUNTY PUBLIC WORKS DEPARTMENT.
4. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE RECLAIMED WATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
5. WATER MAIN INSTALLATION SHALL BE CONSTRUCTED WITH A MINIMUM OF 3 FEET OF COVER BELOW PROPOSED GRADE OR TO THE ELEVATIONS AND DEPTHS AS INDICATED ON THE PLANS WITHIN 0.25 FT. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
6. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
7. ALL PVC WATER MAINS SHALL BE BLUE IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE WATER MAIN. THE TAPE SHALL BE MARKED "WATER". THE COST FOR THE TAPE SHALL BE INCLUDED IN THE WATER MAIN UNIT PRICES.
8. PVC WATER MAINS 4" THROUGH 12" SHALL BE AWWA C900–16 DR 18 (CLASS 235), BLUE IN COLOR & HAVE THE O.D. OF DUCTILE IRON PIPE. WATER MAINS 16" AND UP SHALL BE DUCTILE IRON. FIRE MAINS SHALL BE AWWA C–900 DR14 (CLASS 200).
9. WHERE THE WATER MAIN EXCEEDS THE PIPE MANUFACTURER'S RECOMMENDATIONS FOR MAXIMUM JOINT DEFLECTION THE CONTRACTOR SHALL FURNISH AND INSTALL FITTINGS AS REQUIRED.
10. A 2 INCH PVC PIPE MARKER WITH A PAINTED END CAP SHALL BE INSERTED BY THE CONTRACTOR AT THE ROW LINE INDICATING EACH INDIVIDUAL NEW SERVICE LOCATION OR STUB OUT. THE MARKER SHALL BE A 6 FOOT LENGTH OF PVC PIPE INSERTED 2 FEET INTO THE GROUND AND SHALL BE PAINTED "SAFETY" BLUE FOR POTABLE WATER.
11. THE CONTRACTOR SHALL PROVIDE AND UTILIZE A METERED JUMPER ASSEMBLY BETWEEN THE EXISTING POTABLE WATER SOURCE PIPING AND THE NEW WATER MAIN IN ORDER TO PROVIDE BACKFLOW PREVENTION WHILE FILLING AND FLUSHING THE NEW WATER MAIN. FINAL TIE–IN SHALL BE COMPLETED ONLY AFTER THE NEW SYSTEM HAS BEEN FLUSHED CLEAN, PRESSURE TESTED, DISINFECTED, BACTERIOLOGICALLY CLEARED, CERTIFIED COMPLETE BY THE ENGINEER, AND A RELEASE IS OBTAINED FROM THE HEALTH DEPARTMENT. ENGINEER'S REPRESENTATIVE TO BE PRESENT AT FINAL TIE–IN. THE LENGTH OF PIPE REQUIRED FOR FINAL TIE–IN SHALL BE LIMITED TO LESS THAN 20 FEET. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH HEALTH DEPARTMENT AND LOCAL GOVERNMENT RULES AND REGULATIONS.
12. FLUSHING BOX SHALL BE INSTALLED OUTSIDE OF THE ROADWAY. COSTS FOR THIS WORK TO BE INCLUDED WITH THE VALVE PAY ITEM.

WATER SERVICE NOTES:

1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE STAKED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONSTRUCTED TO THE PROPOSED LOCATION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE TO THE OWNER/ENGINEER. THOSE BOXES SHOWN IN CLUSTERS SHALL BE PLACED IN A NEAT ROW AND AGAINST EACH OTHER.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
3. A 2 INCH PVC PIPE MARKER WITH A PAINTED END CAP SHALL BE INSERTED BY THE CONTRACTOR AT THE ROW LINE INDICATING EACH INDIVIDUAL NEW SERVICE LOCATION OR STUB OUT. THE MARKER SHALL BE A 6 FOOT LENGTH OF PVC PIPE INSERTED 2 FEET INTO THE GROUND AND SHALL BE PAINTED "SAFETY" BLUE FOR POTABLE WATER, PURPLE FOR RECLAIMED WATER, AND GREEN FOR SEWER.
4. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR WATER LINES. IF EXTENSIONS ARE REQUIRED, THE COST SHALL BE INCLUDED IN THE PRICE BID.
5. 2 INCHES OR SMALLER DIAMETER SERVICES SHALL BE P.E. PIPE MEETING AWWA C–901. PIPE SHALL BE POLY–E DRISCO–PIPE 5100 ULTRALINE OR ENDOPURE BY ENDOT OR APPROVED EQUAL. PIPE SHALL BE BLUE OR ENCASED IN BLUE SLEEVE.
6. VERTICAL CLEARANCE BETWEEN WATER AND STORM/WATER MAIN/WASTEWATER LINES SHALL BE 12 INCHES MINIMUM.
7. IF SERVICE OR HYDRANTS ARE HIT OR DAMAGED, THEY WILL BE REPLACED TO THE CURRENT COUNTY STANDARD.

THRUST BLOCKS, ANCHOR BLOCKS AND JOINT RESTRAINING

1. THE CONTRACTOR SHALL PROVIDE ALL THRUST BLOCKING AND JOINT RESTRAINING AS REQUIRED. SEE THRUST BLOCK AND JOINT RESTRAINTS DETAILS ON WATER DISTRIBUTION CONSTRUCTION DETAILS SHEET.
2. DESIGN CRITERIA: 180 P.S.I. TEST PRESSURE TIMES 1.67 SAFETY FACTOR (300 P.S.I.) FOR WATER HAMMER WITH ASSUMED SOIL BEARING CAPACITY OF 1000 LBS. PER SQUARE FOOT.
3. WRAP ALL FITTINGS IN POLYETHYLENE PRIOR TO PLACING CONCRETE AGAINST PIPE OR FITTINGS.
4. ALL CONCRETE BLOCKING SHALL BE 3000 P.S.I. AT 28 DAYS MINIMUM.
5. BLOCK FOR TEE SHALL BE CONSTRUCTED IN SIZE FOR BRANCH DIAMETER.
6. MECHANICAL RESTRAINED JOINTS SHALL BE INSTALLED TO MEET MANUFACTURERS RECOMMENDED MINIMUM RESTRAINED DISTANCES FROM FITTING IN ACCORDANCE WITH RECOMMENDED INSTALLATION CRITERIA.

CLEANOUT NOTES:

1. CLEANOUTS ARE REQUIRED ON ALL SERVICES AND AS SHOWN ON THE PLAN.
2. CLEANOUTS SHALL BE ADJUSTED TO CONFORM WITH FINISHED SURFACES. ALL ADJUSTMENTS SHALL BE INCLUDED IN THE PRICE BID. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.

GENERAL NOTES FOR UTILITY/AGENCY OWNERS

1. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv Vh AND Vvh) ARE BASED ON THE LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATION/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATION BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL NOTIFY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE–CALL OF FLORIDA, INC (811) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION ON THE JOB SITE.

FLORIDA POWER AND LIGHT:	BRIAN GARVER 1253 12TH AVENUE EAST PALMETTO, FL 34221 (941) 723–4442 BRIAN.GARVER@FPL.COM	MANATEE COUNTY UTILITIES DEPARTMENT:	JIM SHULER 1022 26TH AVENUE EAST BRADENTON, FL 34206 (941) 708–7450
FRONTIER:	DENISE HUTTON 1701 RINGLING BLVD. SARASOTA, FL 34236 (941) 906–6722	PEACE RIVER ELECTRIC COOPERATIVE:	DAVID McCLINTOCK 14505 ARBOR GREEN TRAIL, LAKEWOOD RANCH, FL 34202
TECO PEOPLE'S GAS:	ALEX MCFARLANE (813) 557–6134		
SPECTRUM:	THOMAS MUMEA 5413 E. S.R. 64, BRADENTON, FL 34208 (941) 213–0877		

RECLAIMED WATER DISTRIBUTION GENERAL NOTES

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS.

1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL INVESTIGATE AND VERIFY OR HAVE VERIFIED THE LOCATION OF EXISTING UTILITIES AND ANY OTHER SUBSURFACE FACILITIES BEFORE STARTING WORK. HE SHALL BE LIABLE FOR ANY EXPENSE RESULTING FROM DAMAGE TO SAME. ANY CONFLICTS WITH EXISTING UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AS SOON AS POSSIBLE.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE COUNTY, AND THE ENGINEER 24 HOURS PRIOR TO ANY WORK AT SITE & 48 HOURS PRIOR TO ANY TESTING. RECLAIMED MAINS TIE–INS REQUIRING RECLAIMED SERVICE TO BE SHUT OFF SHALL BE MADE WHEN REQUIRED BY MANATEE COUNTY PUBLIC WORKS DEPARTMENT.
4. THE CONTRACTOR SHALL COORDINATE HOLDING OF POLES WITH UTILITY COMPANIES IN ADVANCE SO UNNECESSARY DELAYS OF PROJECT SHALL NOT BE INCURRED. THE COST FOR THE HOLDING OF THE POWER POLES SHALL BE INCLUDED IN THE RECLAIMED WATER MAIN UNIT COST ITEMS CONTAINED IN THE PROPOSAL.
5. RECLAIMED WATER MAIN INSTALLATION SHALL BE CONSTRUCTED WITH A MINIMUM OF 3 FEET OF COVER BELOW PROPOSED GRADE OR TO THE ELEVATIONS AND DEPTHS AS INDICATED ON THE PLANS WITHIN 0.25 FT. COST TO RELAY MAIN, IF NECESSARY, SHALL BE BORNE BY THE CONTRACTOR.
6. ALL EXISTING SALVAGEABLE PIPE FITTINGS, ETC. SHALL REMAIN THE PROPERTY OF THE OWNER AND BE STORED ON SITE AT THE DIRECTION OF THE ENGINEER.
7. ALL PVC RECLAIMED WATER MAINS SHALL BE PURPLE IN COLOR. COLOR CODED 3" DETECTABLE TAPE SHALL BE LOCATED 12" BELOW GRADE OR COLOR CODED 6" DETECTABLE TAPE SHALL BE LOCATED BETWEEN 12" & 24" BELOW GRADE AND ABOVE THE RECLAIMED WATER MAIN. THE TAPE SHALL BE MARKED "RECLAIMED WATER". THE COST FOR THE TAPE SHALL BE INCLUDED IN THE RECLAIMED WATER MAIN UNIT PRICES.
8. PVC RECLAIMED WATER MAINS 4" THROUGH 12" SHALL BE AWWA C900–16 DR 18 (CLASS 235), PURPLE IN COLOR & HAVE THE O.D. OF DUCTILE IRON PIPE. RECLAIMED WATER MAINS 16" AND UP SHALL BE DUCTILE IRON..
9. WHERE THE RECLAIMED WATER MAIN EXCEEDS THE PIPE MANUFACTURES RECOMMENDATIONS FOR MAXIMUM JOINT DEFLECTION THE CONTRACTOR SHALL FURNISH AND INSTALL FITTINGS AS REQUIRED.
10. A 2 INCH PVC PIPE MARKER WITH A PAINTED END CAP SHALL BE INSERTED BY THE CONTRACTOR AT THE ROW LINE INDICATING EACH INDIVIDUAL NEW SERVICE LOCATION OR STUB OUT. THE MARKER SHALL BE A 6 FOOT LENGTH OF PVC PIPE INSERTED 2 FEET INTO THE GROUND AND SHALL BE PAINTED PURPLE FOR RECLAIMED WATER.
11. FLUSHING BOX SHALL BE INSTALLED OUTSIDE OF THE ROADWAY. COSTS FOR THIS WORK TO BE INCLUDED WITH THE VALVE PAY ITEM.

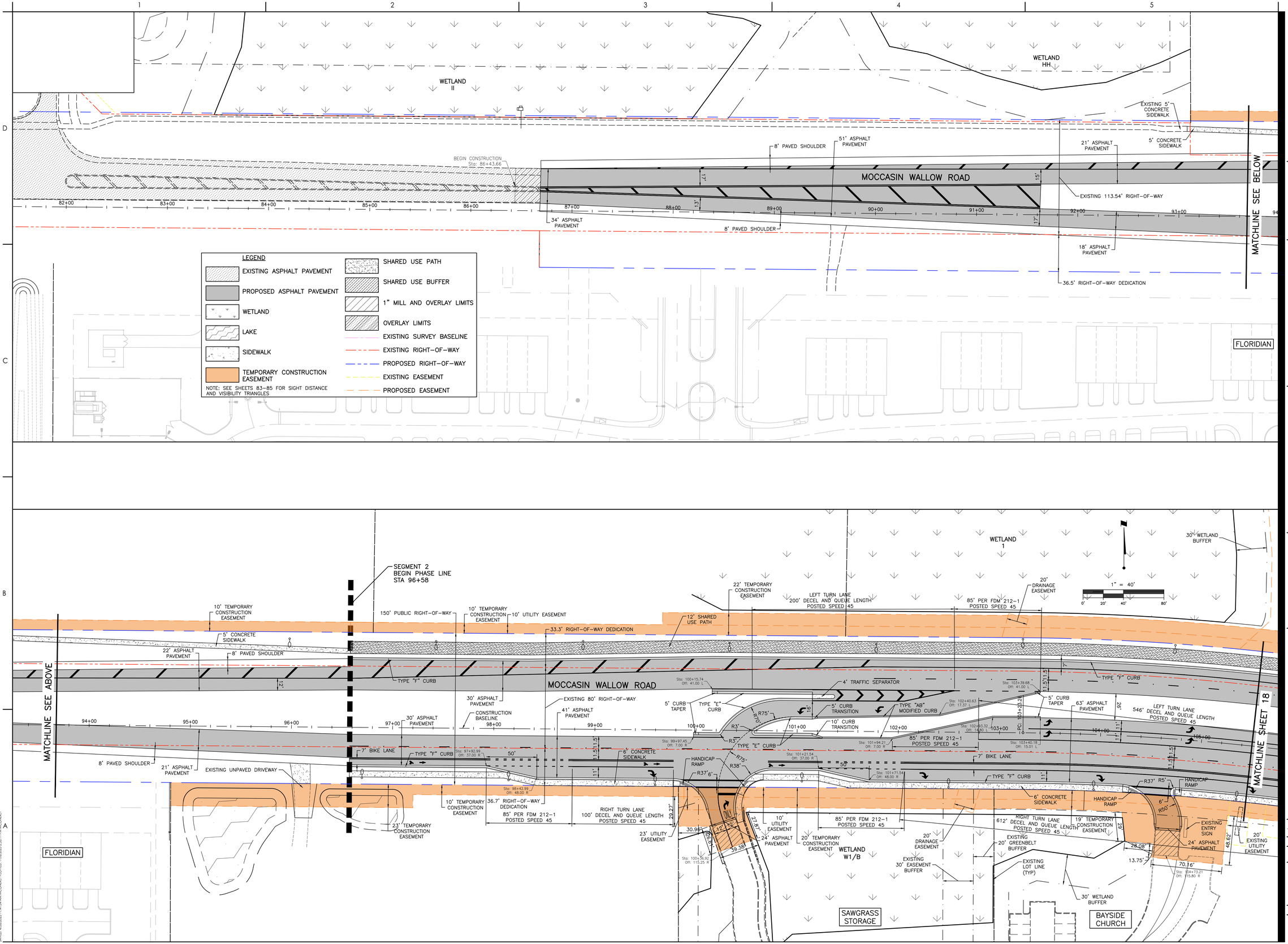
RECLAIMED WATER SERVICE NOTES

1. ALL METER BOXES HAVE BEEN CALCULATED FOR LOCATION AND SHALL BE STAKED ACCORDINGLY IN THE FIELD. BOXES FOUND NOT CONSTRUCTED TO THE PROPOSED LOCATION SHALL BE REMOVED AND RELOCATED BY THE CONTRACTOR AT NO ADDITIONAL CHARGE TO THE OWNER/ENGINEER. THOSE BOXES SHOWN IN CLUSTERS SHALL BE PLACED IN A NEAT ROW AND AGAINST EACH OTHER.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER.
3. A 2 INCH PVC PIPE MARKER WITH A PAINTED END CAP SHALL BE INSERTED BY THE CONTRACTOR AT THE ROW LINE INDICATING EACH INDIVIDUAL NEW SERVICE LOCATION OR STUB OUT. THE MARKER SHALL BE A 6 FOOT LENGTH OF PVC PIPE INSERTED 2 FEET INTO THE GROUND AND SHALL BE PAINTED PURPLE FOR RECLAIMED WATER.
4. 2 INCHES OR SMALLER DIAMETER SERVICES SHALL BE P.E. PIPE MEETING AWWA C–901. PIPE SHALL BE POLY–E DRISCO–PIPE 5100 ULTRALINE OR ENDOPURE BY ENDOT OR APPROVED EQUAL. PIPE SHALL BE PURPLE OR ENCASED IN PURPLE SLEEVE.
5. VERTICAL CLEARANCE BETWEEN RECLAIMED WASTER AND STORM PIPE/WATER MAIN/WASTEWATER LINES SHALL BE 12 INCHES MINIMUM.

WASTEWATER COLLECTION GENERAL NOTES

THE FOLLOWING NOTES ARE INTENDED AS A SUPPLEMENT TO THE PROJECT SPECIFICATIONS AND ARE NOT INTENDED TO SUPERSEDE THE SPECIFICATIONS.

1. ALL CONSTRUCTION SHALL MEET THE MINIMUM REQUIREMENTS OF MANATEE COUNTY PUBLIC WORKS UTILITY STANDARDS, LATEST REVISION, AND EXCEED THE REQUIREMENTS OF THOSE SPECIFICATIONS WHERE INDICATED ON THESE CONSTRUCTION DRAWINGS OR IN THE PROJECT SPECIFICATIONS.
2. ELEVATIONS SHOWN ON THE PLANS FOR FLOWLINES OF PROPOSED WASTEWATER MAINS SHALL BE ADHERED TO. IN MOST CASES THE DESIGN GRADES ARE CRITICAL AND ADJUSTMENTS CAUSED BY MISALIGNMEN



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Revision

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

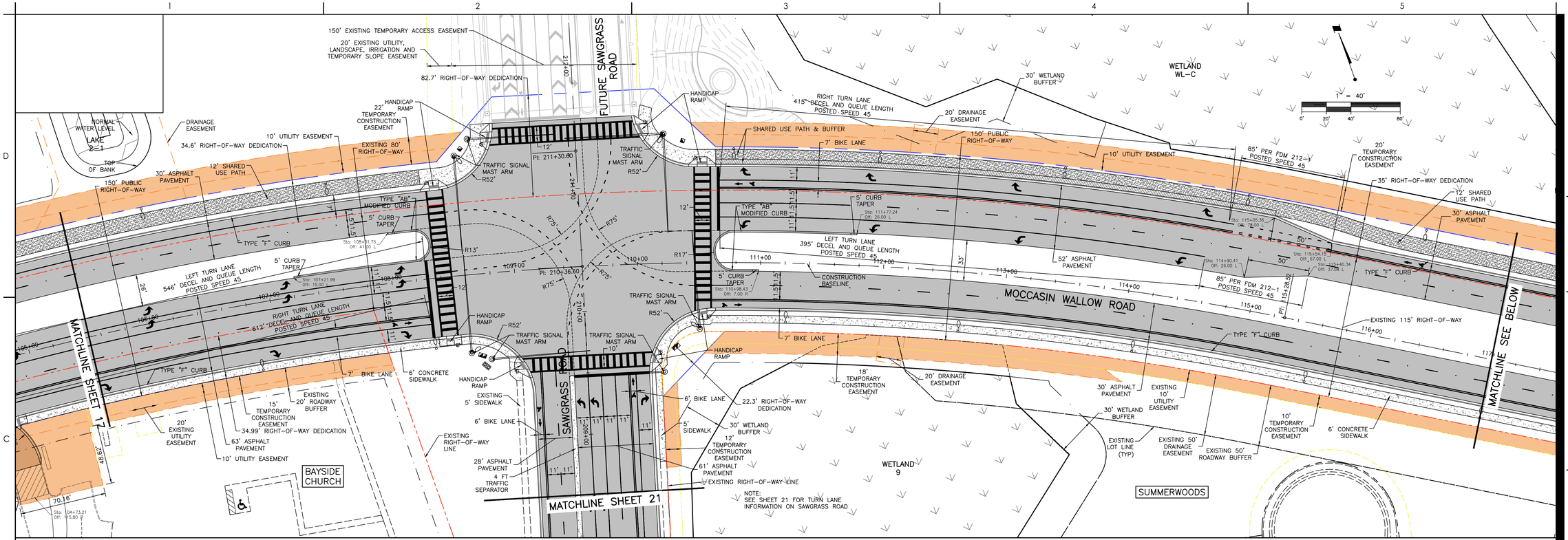
Project No.: 215617221
File Name: 215617221-01C-111SP
Scale: 1" = 40'

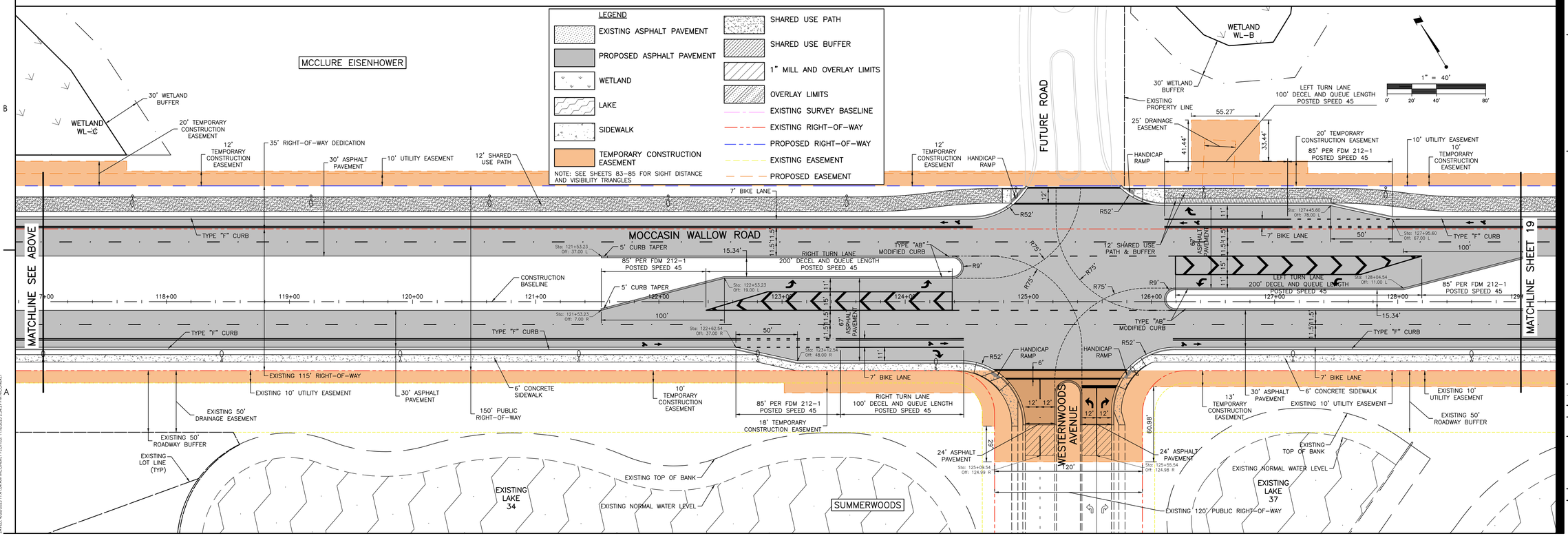
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SITE PLAN

Revision: Sheet: 17 of 126
Drawing No.
17

ORIGINAL SHEET - ARCH D





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MOCCASIN WALLOW ROAD SEGMENT 2

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Scale: 1" = 40'

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			YYYY.MM.DD

Title
SITE PLAN

Revision: Sheet: 18 of 126
Drawing No.
18

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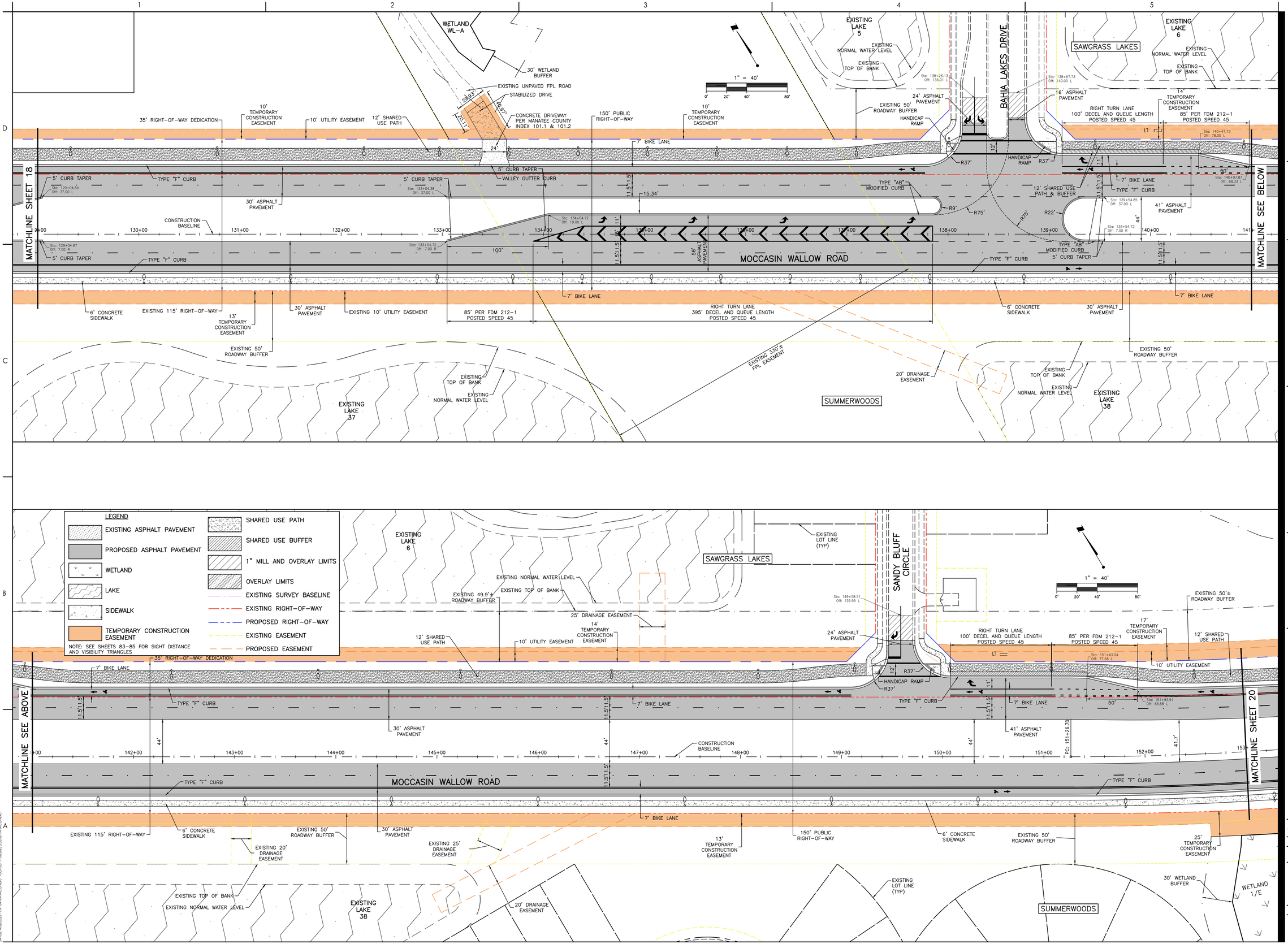

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Title
SITE PLAN

Revision: Sheet: 19 of 126

Drawing No.
19

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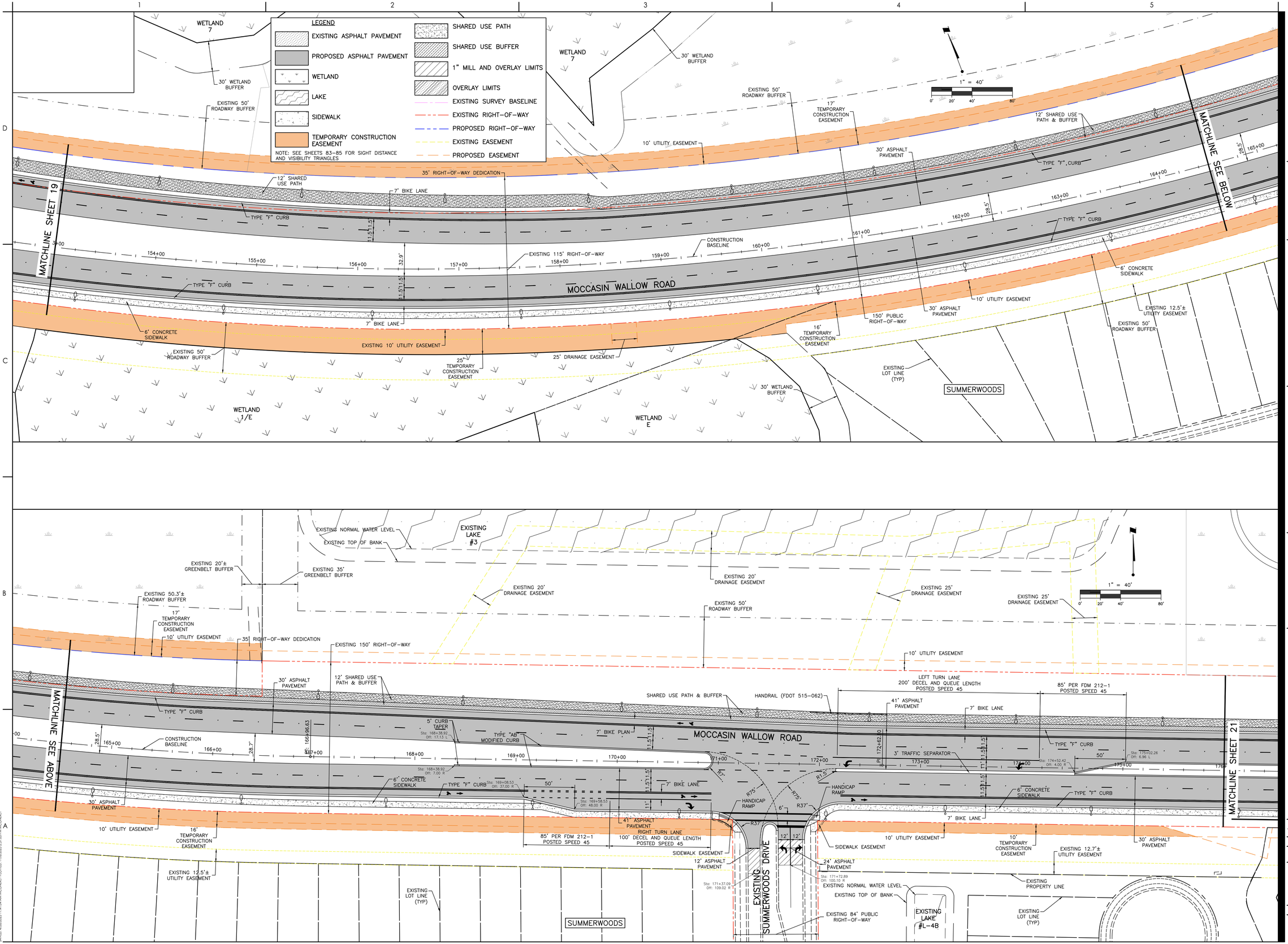

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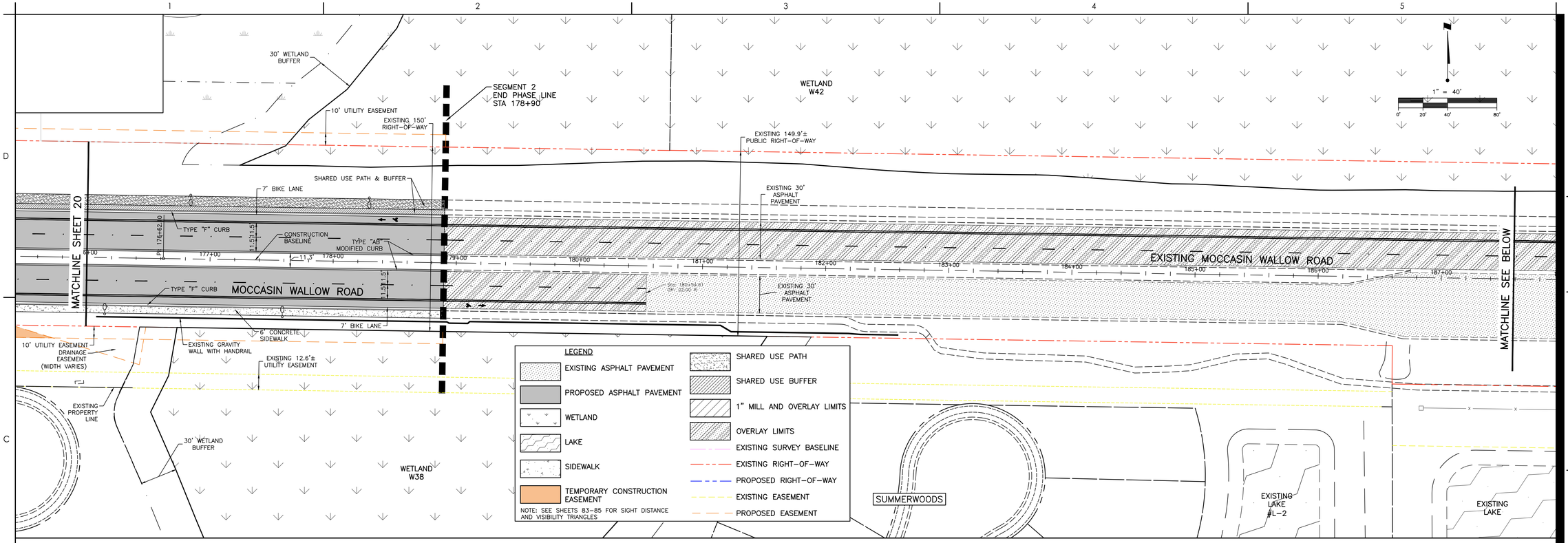
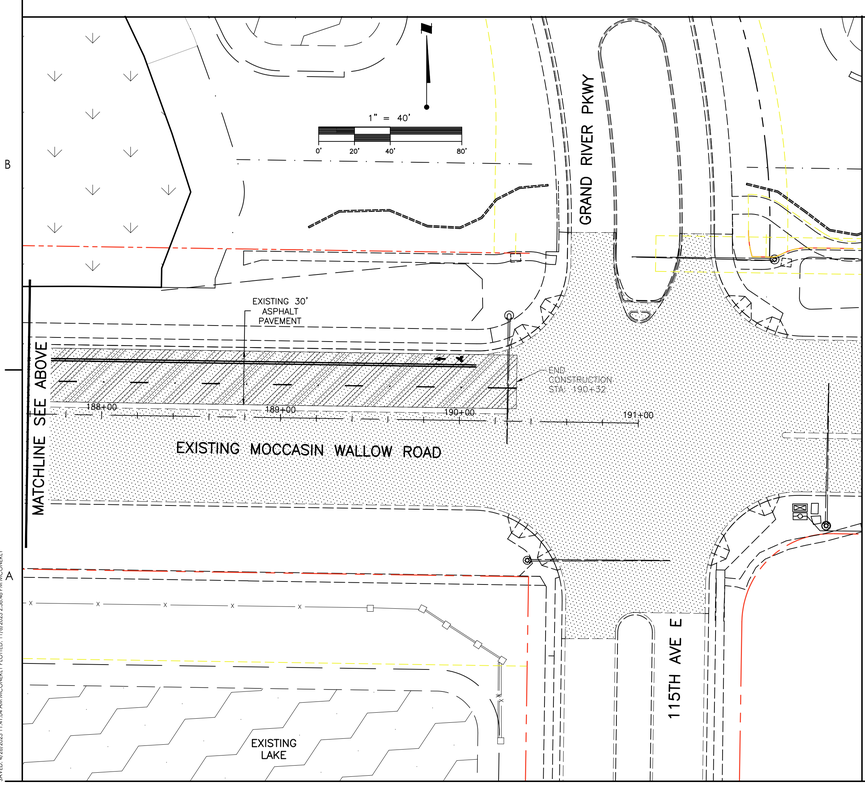
Scale: 1" = 40'

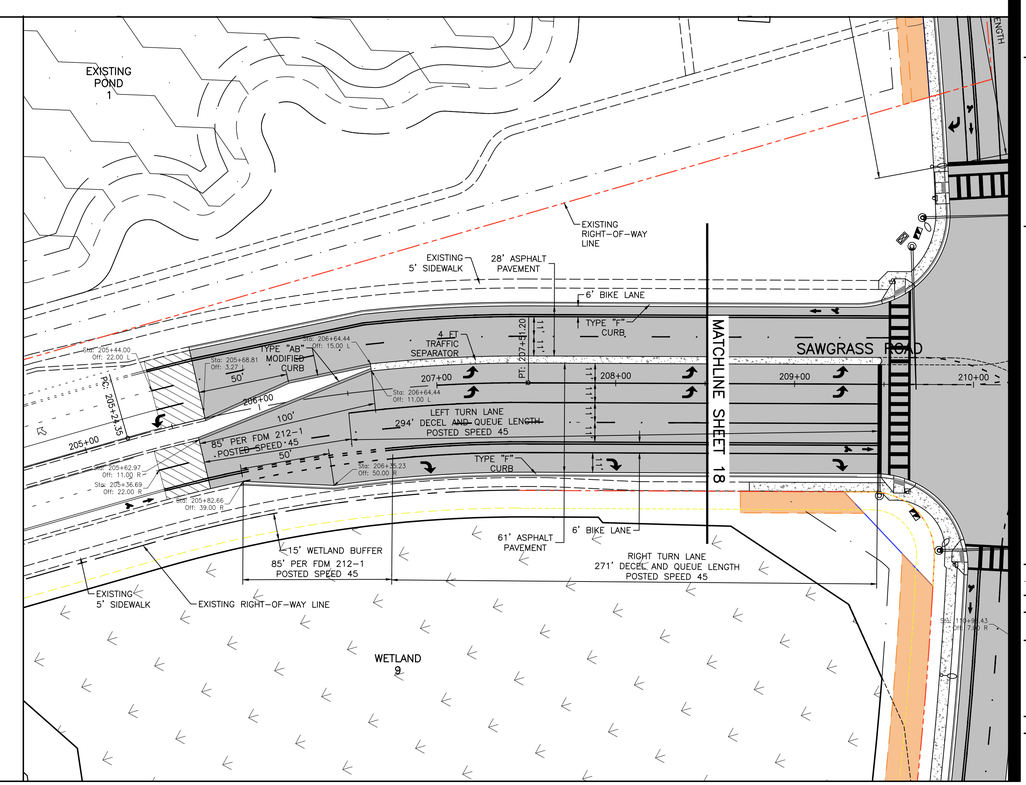
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SITE PLAN

Revision: Sheet: 20 of 126
Drawing No.
20







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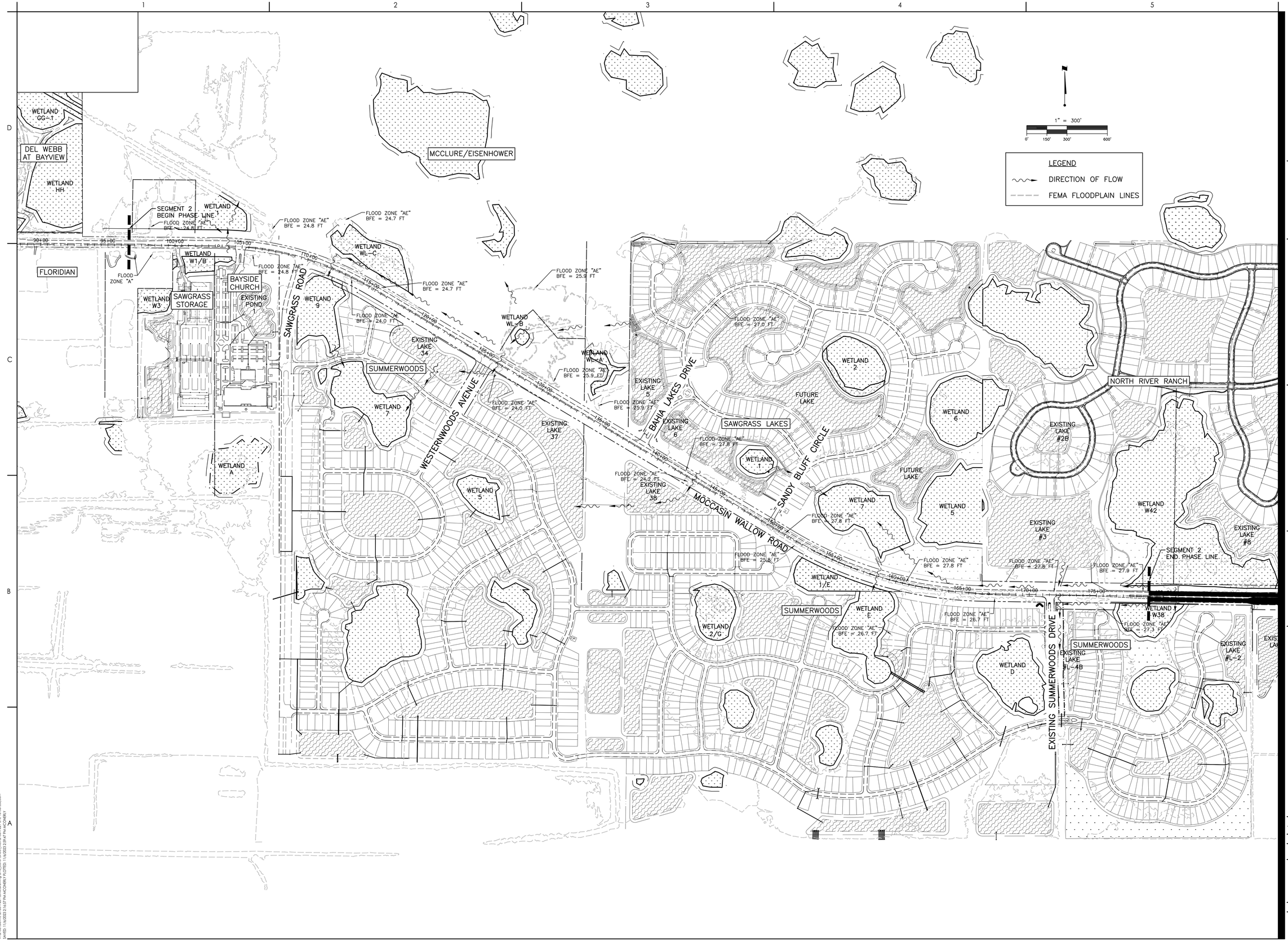
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SITE PLAN

Revision: Sheet: 21 of 126
Drawing No.
21

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-131SD
Scale: 1" = 300'

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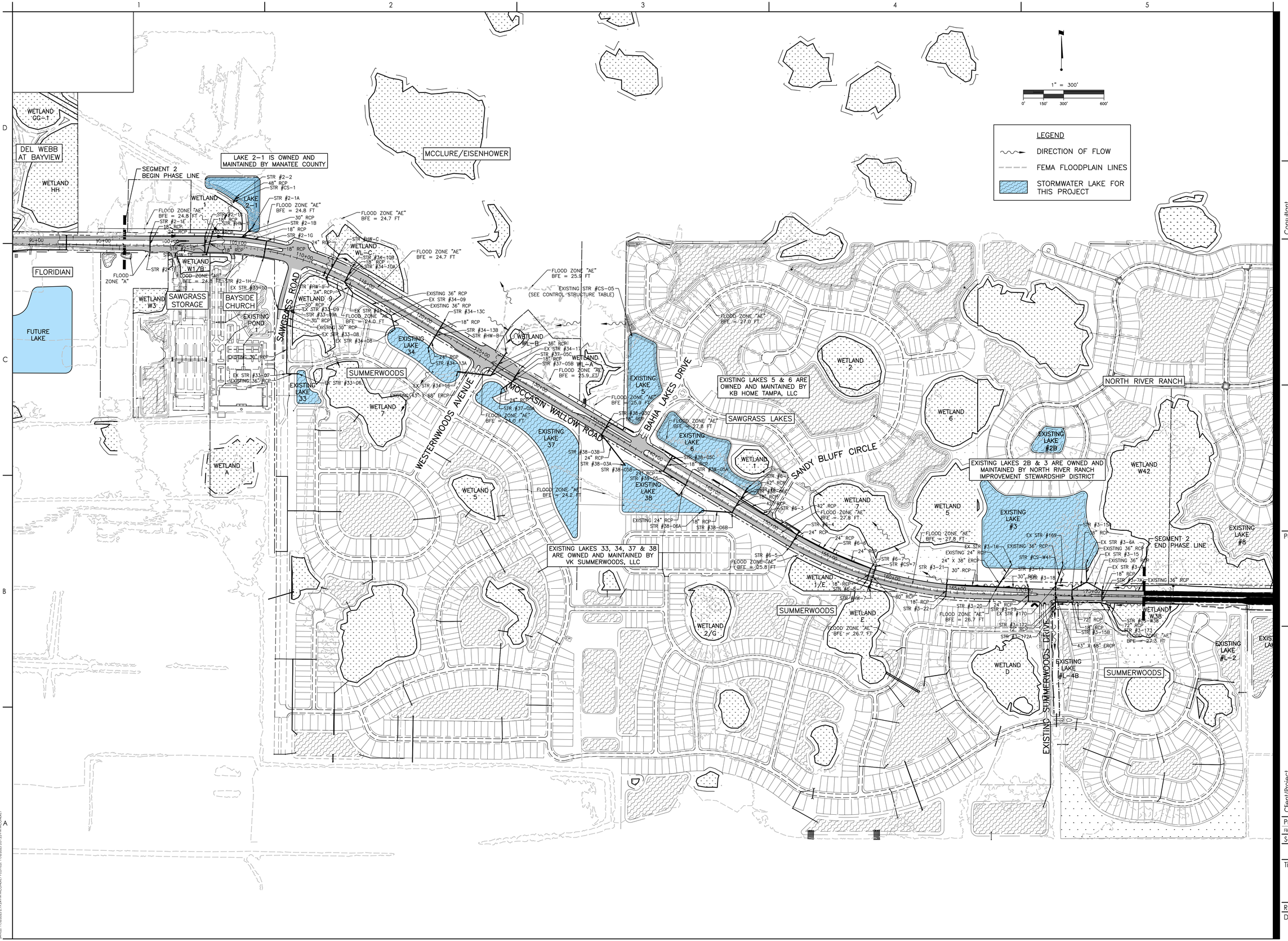
Title
EXISTING DRAINAGE MAP

Revision: Sheet: 22 of 126

Drawing No.
22

ORIGINAL SHEET - ARCH D



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Project No.: 215617221
File Name: 215617221-01C-133SD
Scale: 1" = 300'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PROPOSED DRAINAGE MAP

Revision: Sheet: 23 of 126
Drawing No.
23

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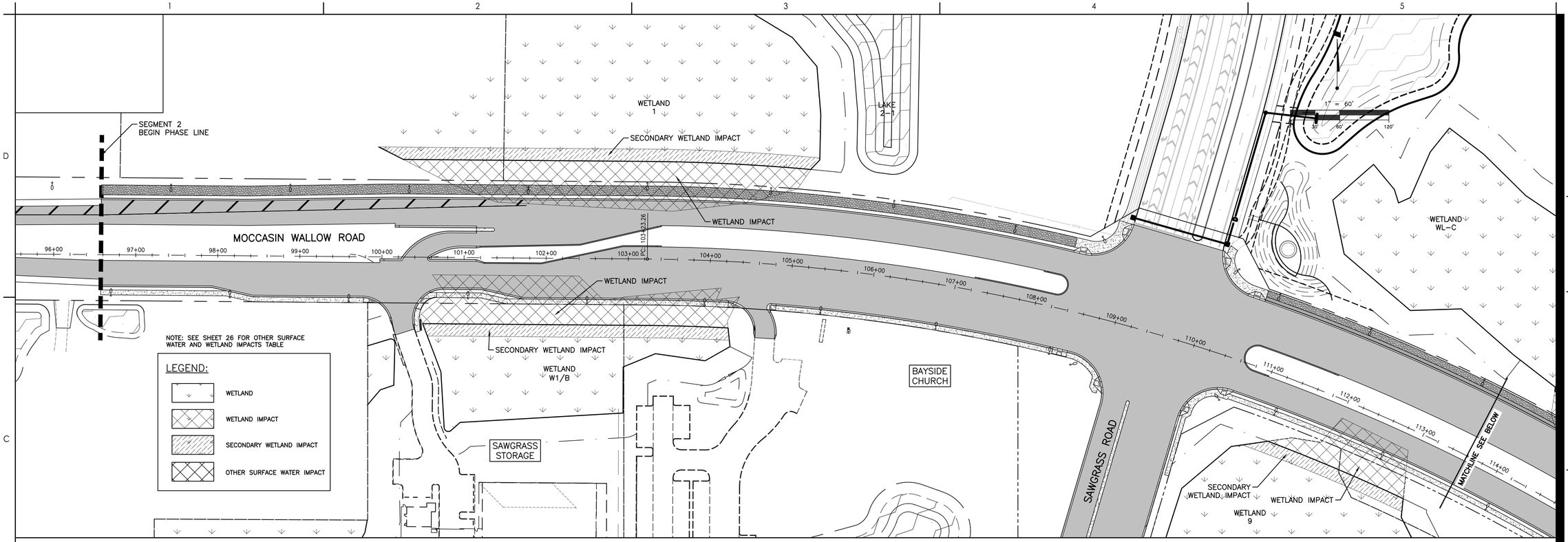

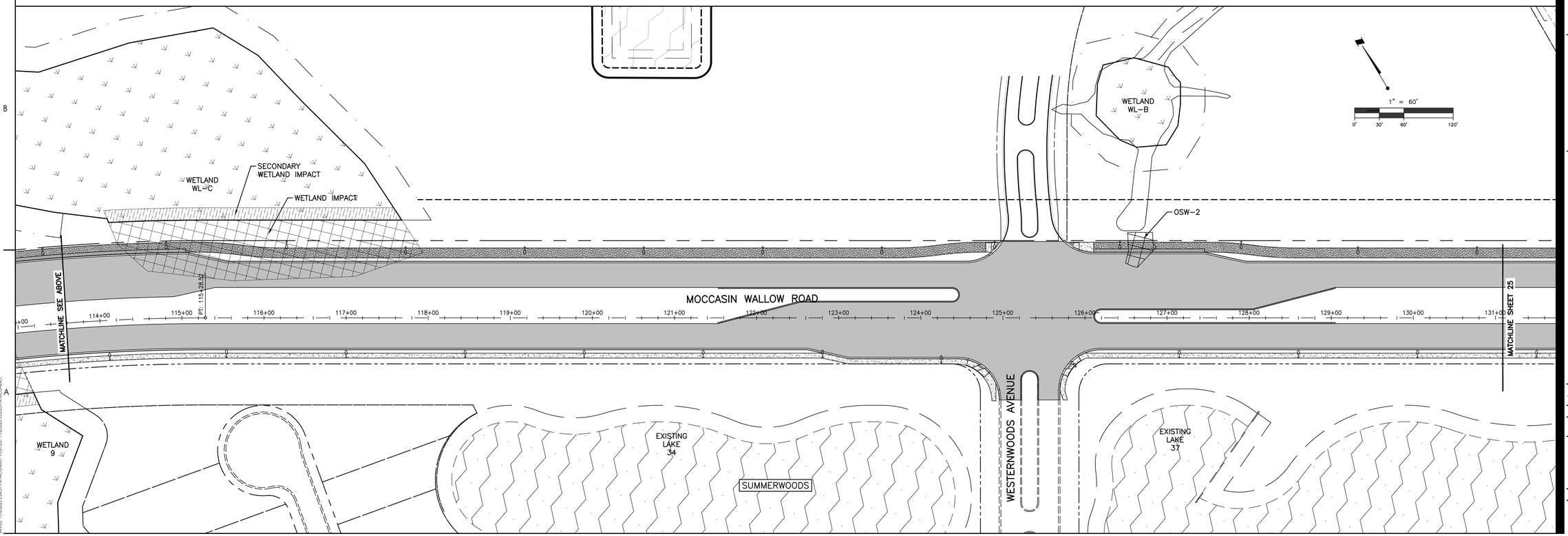

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-135SD
Scale: 1" = 60'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
OTHER SURFACE WATER IMPACT PLAN

Revision: Sheet: 24 of 126

Drawing No.
24

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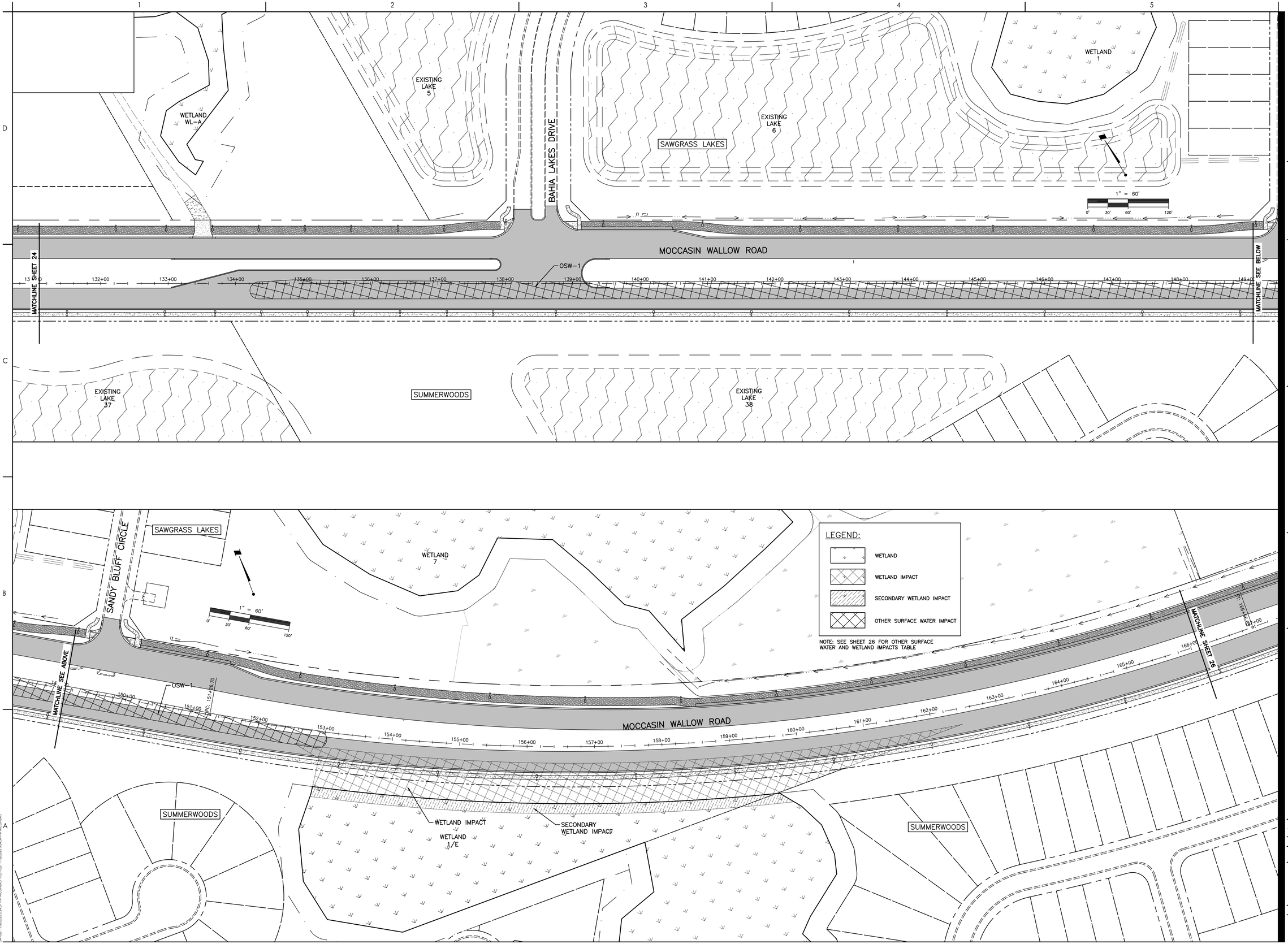

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MOCCASIN WALLOW ROAD SEGMENT 2

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Scale: 1" = 60'

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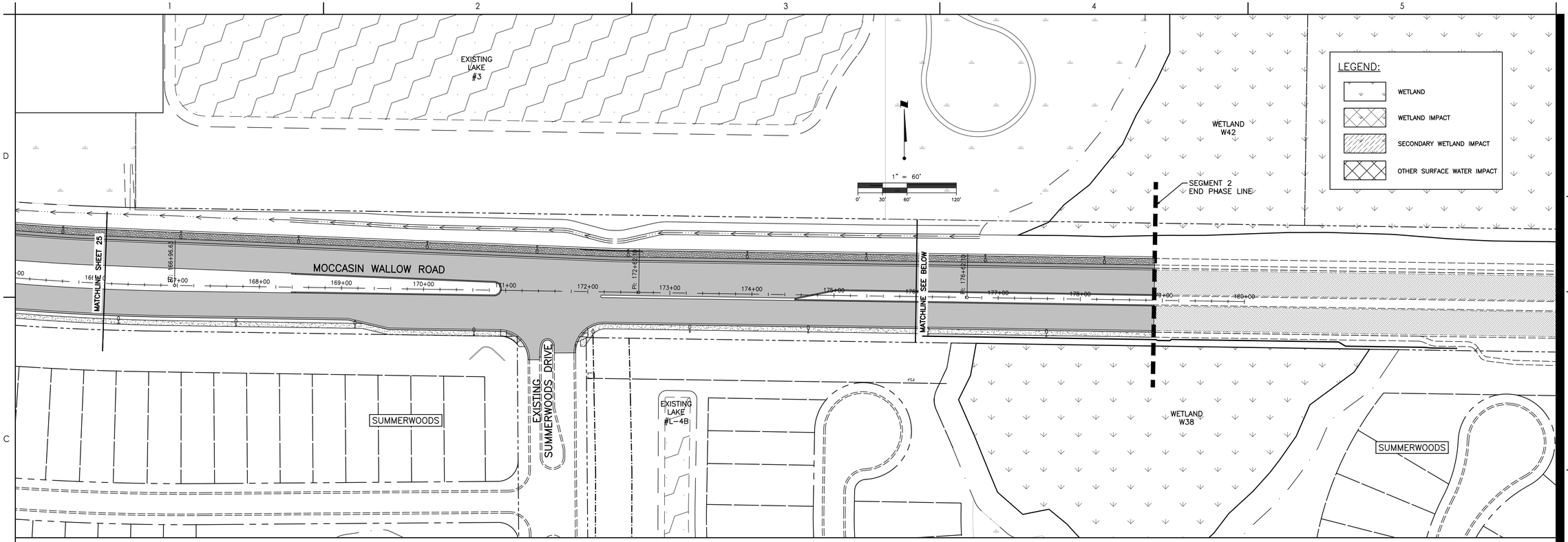
Title
OTHER SURFACE WATER IMPACT PLAN

Revision: Sheet: 25 of 126

Drawing No.
25

ORIGINAL SHEET - ARCH D



FEATURE TYPE	FEATURE ID	TOTAL ACREAGE IN PROJECT LIMITS	TEMPORARY IMPACTS (ACRES)	PERMANENT IMPACT (ACRES)	SECONDARY IMPACT (ACRES)
WETLAND	1	0.51	0	0.51	0.18
WETLAND	9	0.16	0	0.16	0.07
WETLAND	1/E	1.13	0	1.13	0.24
WETLAND	W1/B	0.41	0	0.41	0.13
WETLAND	WL-C	0.54	0	0.54	0.12
OTHER SURFACE WATER	OSW-1	1.13	0	1.13	
OTHER SURFACE WATER	OSW-2	0.03	0	0.03	
Total		**3.91**	**0**	**3.91**	**0.74**

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MOCCASIN WALLOW ROAD SEGMENT 2

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Scale: 1" = 60'

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Title
OTHER SURFACE WATER IMPACT PLAN

Revision: Sheet: 26 of 126

Drawing No.
26

ORIGINAL SHEET - ARCH D

STRUCTURE TABLE						
STRUCTURE NAME	STRUCTURE TYPE	TOP ELEV	PIPES IN	PIPES OUT	COORDINATES	STATION/OFFSET
EX STR #3-7	STORM MH - REPLACE COVER WITH FDOT TYPE 5 INLET TOP	30.43	18" RCP INV IN = 24.81 (S)	EXISTING 36" RCP INV OUT = 19.95 (E) EXISTING 36" RCP INV OUT = 19.95 (NW)	N: 1185412.36 E: 511294.61	STA: 175+77.87 OFF: 38.25 L
EX STR #3-15	STORM MH	27.20	36" RCP INV IN = 20.42 (SW) EXISTING 36" RCP INV IN = 19.56 (SE)	EXISTING 36" RCP INV OUT = 19.56 (N)	N: 1185475.24 E: 511180.48	STA: 174+62.79 OFF: 99.37 L
EX STR #34-17	STORM MH	26.95	36" RCP INV IN = 16.58 (NE)	EXISTING 43" x 68" ERCP INV OUT = 14.17 (W)	N: 1187011.51 E: 506744.82	STA: 126+44.00 OFF: 84.66 R
EX STR #170	CONTROL STRUCTURE			EXISTING 36" RCP INV OUT = 23.62 (N)	N: 1185447.33 E: 510949.10	STA: 172+31.89 OFF: 67.92 L
STR #2-1A	FDOT ENDWALL 430-030		30" RCP INV IN = 17.52 (SW)		N: 1188113.19 E: 504969.62	STA: 105+90.76 OFF: 154.84 L
STR #2-1B	FDOT MANHOLE J-8 >10'	28.15	30" RCP INV IN = 17.73 (W) 18" RCP INV IN = 22.03 (E)	30" RCP INV OUT = 17.73 (NE)	N: 1188041.50 E: 504892.28	STA: 105+25.17 OFF: 75.00 L
STR #2-1C	FDOT TYPE P-6 <10'	26.53	24" RCP INV IN = 20.21 (W) 18" RCP INV IN = 21.39 (S)	30" RCP INV OUT = 18.28 (E)	N: 1188050.21 E: 504617.19	STA: 102+56.40 OFF: 72.25 L
STR #2-1D	FDOT TYPE P-6 <10'	26.20		18" RCP INV OUT = 21.63 (N)	N: 1187928.71 E: 504616.21	STA: 102+56.40 OFF: 49.25 R
STR #2-1E	FDOT TYPE P-6 <10'	26.79	18" RCP INV IN = 21.57 (S)	24" RCP INV OUT = 21.03 (E)	N: 1188049.76 E: 504208.80	STA: 98+48.03 OFF: 68.52 L
STR #2-1F	FDOT TYPE P-6 <10'	26.38		18" RCP INV OUT = 21.81 (N)	N: 1187931.99 E: 504207.82	STA: 98+47.99 OFF: 49.25 R
STR #2-1G	FDOT TYPE P-6 <10'	27.39	18" RCP INV IN = 22.24 (S)	18" RCP INV OUT = 22.40 (W)	N: 1188013.52 E: 505075.85	STA: 107+05.05 OFF: 72.25 L
STR #2-1H	FDOT TYPE P-6 <10'	27.05		18" RCP INV OUT = 22.48 (N)	N: 1187893.90 E: 505054.57	STA: 107+05.05 OFF: 49.25 R
STR #2-2	FDOT ENDWALL 430-030		48" RCP INV IN = 17.01 (SW)		N: 1188342.95 E: 504853.38	STA: 104+66.84 OFF: 372.15 L
STR #3-7A	FDOT TYPE P-5 <10'	29.53		18" RCP INV OUT = 24.96 (N)	N: 1185335.87 E: 511293.43	STA: 175+77.87 OFF: 38.25 R
STR #3-15A	FDOT TYPE P-6 <10'	29.00	18" RCP INV IN = 23.68 (S)	36" RCP INV OUT = 20.67 (NE)	N: 1185415.78 E: 511071.63	STA: 173+54.87 OFF: 38.25 L
STR #3-15B	FDOT TYPE P-6 <10'	28.40		18" RCP INV OUT = 23.83 (N)	N: 1185339.29 E: 511070.46	STA: 173+54.87 OFF: 38.25 R
STR #3-17	FDOT MANHOLE P-8 <10'	29.19	24" x 38" ERCP INV IN = 21.65 (SW)	EXISTING 24" RCP INV OUT = 23.94 (NE)	N: 1185483.54 E: 510545.12	STA: 168+27.42 OFF: 98.07 L
STR #3-18	FDOT TYPE P-6 <10'	29.16	24" RCP INV IN = 23.58 (S)	30" RCP INV OUT = 23.04 (W)	N: 1185425.83 E: 510748.36	STA: 170+31.50 OFF: 43.42 L
STR #3-19	FDOT TYPE P-6 <10'	28.88		24" RCP INV OUT = 23.77 (N)	N: 1185333.19 E: 510746.22	STA: 170+30.75 OFF: 49.25 R
STR #3-20	FDOT MANHOLE P-8 <10'	30.31	30" RCP INV IN = 22.83 (W) 30" RCP INV IN = 22.58 (E)	24" x 38" ERCP INV OUT = 21.76 (NE)	N: 1185438.06 E: 510516.37	STA: 167+99.35 OFF: 52.16 L
STR #3-21	FDOT TYPE P-6 <10'	29.55	18" RCP INV IN = 24.66 (S)	30" RCP INV OUT = 23.58 (E)	N: 1185457.02 E: 510140.18	STA: 164+17.62 OFF: 52.75 L
STR #3-22	FDOT TYPE P- 6 <10'	29.41		18" RCP INV OUT = 24.84 (N)	N: 1185366.56 E: 510130.37	STA: 164+17.62 OFF: 38.25 R
STR #3-172	FDOT MANHOLE J-8 >10'	28.39	43" x 68" ERCP INV IN = 17.02 (N) 72" RCP INV IN = 16.65 (E)	72" RCP INV OUT = 16.65 (S)	N: 1185328.43 E: 510947.11	STA: 172+31.68 OFF: 51.00 R
STR #3-172A	FDOT DBI TYPE H (4 GRATE), J BOT. <10' MODIFIED	23.39	72" RCP INV IN = 16.55 (N)		N: 1185278.42 E: 510947.83	STA: 172+33.15 OFF: 100.99 R
STR #3-173	FDOT MANHOLE J-8 >10'	28.58	72" RCP INV IN = 17.32 (E)	72" RCP INV OUT = 17.32 (W)	N: 1185323.41 E: 511281.91	STA: 175+66.54 OFF: 50.88 R
STR #6-1	FDOT ENDWALL 430-030		42" RCP INV IN = 25.11 (SW)		N: 1186175.11 E: 508655.16	STA: 147+12.98 OFF: 176.62 L
STR #6-2	FDOT MANHOLE J-8 >10'	29.31	42" RCP INV IN = 18.42 (SE) 8" PVC INV IN = 25.00 (NW)	42" RCP INV OUT = 25.30 (NE)	N: 1186092.15 E: 508805.62	STA: 147+12.98 OFF: 80.00 L
STR #6-2A	YARD DRAIN	27.30	8" PVC INV IN = 24.80 (NW)	8" PVC INV OUT = 25.11 (SE)	N: 1186133.49 E: 508569.48	STA: 146+60.76 OFF: 96.97 L
STR #6-2B	YARD DRAIN	27.20		8" PVC INV OUT = 25.20 (SE)	N: 1186238.49 E: 508399.22	STA: 144+60.75 OFF: 99.82 L
STR #6-3	FDOT MANHOLE J-8 <10'	30.72	42" RCP INV IN = 21.84 (SE)	42" RCP INV OUT = 21.84 (NW)	N: 1185987.22 E: 508770.62	STA: 149+08.45 OFF: 74.50 L
STR #6-4	FDOT TYPE J-6 <10'	29.88	24" RCP INV IN = 24.32 (SW) 24" RCP INV IN = 24.07 (SE) 8" PVC INV IN = 24.00 (NE)	42" RCP INV OUT = 22.44 (NW)	N: 1185827.68 E: 509024.39	STA: 152+09.98 OFF: 66.49 L
STR #6-4A	YARD DRAIN	27.20	8" PVC INV IN = 25.39 (NW)	8" PVC INV OUT = 25.39 (SW)	N: 1185855.94 E: 509042.75	STA: 152+12.27 OFF: 100.12 L
STR #6-4B	YARD DRAIN	27.64		8" PVC INV OUT = 25.64 (SE)	N: 1185920.45 E: 508938.43	STA: 150+86.75 OFF: 103.20 L
STR #6-5	FDOT TYPE P-6 <10'	29.64		24" RCP INV OUT = 24.53 (NE)	N: 1185737.48 E: 508971.09	STA: 152+07.58 OFF: 38.25 R
STR #6-6	FDOT MANHOLE P-8 <10'	32.05	24" RCP INV IN = 24.66 (E)	24" RCP INV OUT = 24.66 (NW)	N: 1185692.72 E: 509288.35	STA: 155+13.07 OFF: 62.75 L
STR #6-7	FDOT TYPE P-6 <10'	30.90	18" RCP INV IN = 25.82 (S)	24" RCP INV OUT = 25.28 (W)	N: 1185576.27 E: 509572.97	STA: 158+26.64 OFF: 53.17 L

STRUCTURE TABLE						
STRUCTURE NAME	STRUCTURE TYPE	TOP ELEV	PIPES IN	PIPES OUT	COORDINATES	STATION/OFFSET
STR #6-8	FDOT TYPE P-6 <10'	30.57		18" RCP INV OUT = 26.00 (N)	N: 1185489.43 E: 509544.36	STA: 158+25.44 OFF: 38.25 R
STR #33-09A	FDOT TYPE J-6 <10'	25.51		30" RCP INV OUT = 20.36 (W)	N: 1187493.01 E: 505254.31	STA: 206+37.78 OFF: 53.33 R
STR #34-10A	FDOT TYPE P-6 <10'	27.28	18" RCP INV IN = 22.15 (NE)	24" RCP INV OUT = 18.79 (SE)	N: 1187707.24 E: 505656.75	STA: 113+49.94 OFF: 38.25 R
STR #34-10B	FDOT TYPE P-6 <10'	26.95		18" RCP INV OUT = 22.38 (SW)	N: 1187812.54 E: 505708.89	STA: 113+49.94 OFF: 79.25 L
STR #34-13A	FDOT ENDWALL 430-030		24" RCP INV IN = 18.77 (NE)		N: 1187215.49 E: 506277.90	STA: 121+38.54 OFF: 148.90 R
STR #34-13B	FDOT TYPE P-6 <10'	27.11	18" RCP INV IN = 22.33 (NE)	24" RCP INV OUT = 19.76 (SW)	N: 1187310.49 E: 506334.63	STA: 121+38.54 OFF: 38.25 R
STR #34-13C	FDOT TYPE P-6 <10'	27.11		18" RCP INV OUT = 22.54 (SW)	N: 1187401.93 E: 506389.23	STA: 121+38.54 OFF: 68.25 L
STR #37-05A	FDOT ENDWALL 430-030		24" RCP INV IN = 18.11 (NE)		N: 1186909.12 E: 506823.31	STA: 127+63.88 OFF: 132.32 R
STR #37-05B	FDOT TYPE P-6 >10'	27.54	18" RCP INV IN = 22.76 (NE)	24" RCP INV OUT = 18.32 (SW)	N: 1186968.81 E: 506906.84	STA: 128+05.00 OFF: 38.25 R
STR #37-05C	FDOT TYPE P-6 <10'	27.54		18" RCP INV OUT = 22.97 (SW)	N: 1187060.24 E: 506961.45	STA: 128+05.02 OFF: 68.25 L
STR #38-03A	FDOT ENDWALL 430-030		24" RCP INV IN = 19.03 (NW)		N: 1186343.99 E: 507745.27	STA: 138+45.19 OFF: 144.86 R
STR #38-03B	FDOT TYPE P-6 >10'	28.62	18" RCP INV IN = 23.84 (NE)	24" RCP INV OUT = 19.60 (SE)	N: 1186573.30 E: 507569.19	STA: 135+76.45 OFF: 38.25 R
STR #38-03C	FDOT TYPE P-6 <10'	28.62	8" PVC INV IN = 25.59 (SE)	18" RCP INV OUT = 24.05 (SW)	N: 1186664.75 E: 507623.78	STA: 135+76.44 OFF: 68.25 L
STR #38-03D	YARD DRAIN	29.33	8" PVC INV IN = 26.92 (NE)	8" PVC INV OUT = 26.92 (NW)	N: 1186606.06 E: 507727.42	STA: 136+95.51 OFF: 71.00 L
STR #38-03E	YARD DRAIN	28.80	8" PVC INV IN = 26.97 (SE)	8" PVC INV OUT = 26.97 (SW)	N: 1186626.97 E: 507739.91	STA: 136+95.51 OFF: 95.35 L
STR #38-03F	YARD DRAIN	28.80		8" PVC INV OUT = 27.12 (NW)	N: 1186592.97 E: 507806.40	STA: 137+70.03 OFF: 100.25 L
STR #38-05A	FDOT MANHOLE P-8 <10'	29.48	24" RCP INV IN = 22.92 (NW)	EXISTING 24" RCP INV OUT = 23.57 (SW)	N: 1186196.86 E: 508194.25	STA: 143+06.11 OFF: 41.00 R
STR #38-05B	FDOT TYPE P-6 <10'	28.63	18" RCP INV IN = 23.85 (NE)	24" RCP INV OUT = 23.31 (SE)	N: 1186298.74 E: 508029.00	STA: 141+12.00 OFF: 38.25 R
STR #38-05C	FDOT TYPE P-6 <10'	28.63	8" PVC INV IN = 25.00 (NE)	18" RCP INV OUT = 24.06 (SW)	N: 1186390.18 E: 508083.60	STA: 141+12.00 OFF: 68.25 L
STR #38-06A	FDOT ENDWALL 430-030		18" RCP INV IN = 20.19 (E)		N: 1186007.43 E: 508317.11	STA: 145+08.71 OFF: 140.66 R
STR #38-06B	FDOT TYPE P-6 <10'	29.00	18" RCP INV IN = 24.22 (NE)	18" RCP INV OUT = 20.65 (W)	N: 1185992.95 E: 508541.11	STA: 147+08.46 OFF: 38.25 R
STR #38-06C	FDOT TYPE P-6 <10'	29.00		18" RCP INV OUT = 24.43 (SW)	N: 1186084.38 E: 508595.71	STA: 147+08.46 OFF: 68.25 L
STR #38-06D	YARD DRAIN	28.00		8" PVC INV OUT = 25.24 (SE)	N: 1186463.67 E: 508020.99	STA: 140+20.56 OFF: 99.25 L
STR #38-06E	YARD DRAIN	27.00		8" PVC INV OUT = 25.23 (NW)	N: 1186372.27 E: 508169.59	STA: 141+95.01 OFF: 96.96 L
STR #38-06F	YARD DRAIN	28.00	8" PVC INV IN = 25.06 (SE) 8" PVC INV IN = 25.06 (NW)	8" PVC INV OUT = 25.06 (SW)	N: 1186414.78 E: 508098.26	STA: 141+11.97 OFF: 96.89 L
STR #CS-1	FDOT DBI TYPE H (2 GRATE), J BOT. <10' MODIFIED			48" RCP INV OUT = 18.51 (NE)	N: 1188303.54 E: 504829.42	STA: 104+48.43 OFF: 331.22 L
STR #CS-7	FDOT DBI TYPE H (2 GRATE), J BOT. >10' MODIFIED		60" RCP INV IN = 18.50 (S)		N: 1185591.75 E: 509610.94	STA: 158+59.06 OFF: 79.17 L
STR #CS-W38	FDOT DBI TYPE H (4 GRATE), J BOT. <10' MODIFIED			72" RCP INV OUT = 17.52 (W)	N: 1185301.06 E: 511354.11	STA: 176+39.08 OFF: 72.12 R
STR #CS-W41	FDOT DBI TYPE H (4 GRATE), J BOT. >10' MODIFIED			43" x 68" ERCP INV OUT = 17.24 (S)	N: 1185436.81 E: 510949.01	STA: 172+31.96 OFF: 57.40 L
STR #HW-1	FDOT ENDWALL 430-030		18" RCP INV IN = 22.50 (S)		N: 1188083.02 E: 504676.22	STA: 103+15.17 OFF: 105.53 L
STR #HW-1B	FDOT ENDWALL 430-030			18" RCP INV OUT = 23.43 (N)	N: 1187910.39 E: 504627.23	STA: 102+67.57 OFF: 67.49 R
STR #HW-7	FDOT ENDWALL 430-030			60" RCP INV OUT = 22.75 (N)	N: 1185438.43 E: 509564.33	STA: 158+58.92 OFF: 81.08 R
STR #HW-9	FDOT ENDWALL 430-030		24" RCP INV IN = 22.56 (NE)		N: 1187737.45 E: 505519.55	STA: 112+09.29 OFF: 67.83 R
STR #HW-B	FDOT ENDWALL 430-030			36" RCP INV OUT = 22.10 (SW)	N: 1187182.26 E: 506859.93	STA: 126+55.29 OFF: 120.96 L
STR #HW-C	FDOT ENDWALL 430-030			24" RCP INV OUT = 23.00 (SW)	N: 1187885.25 E: 505600.44	STA: 112+25.87 OFF: 99.83 L

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-1375D

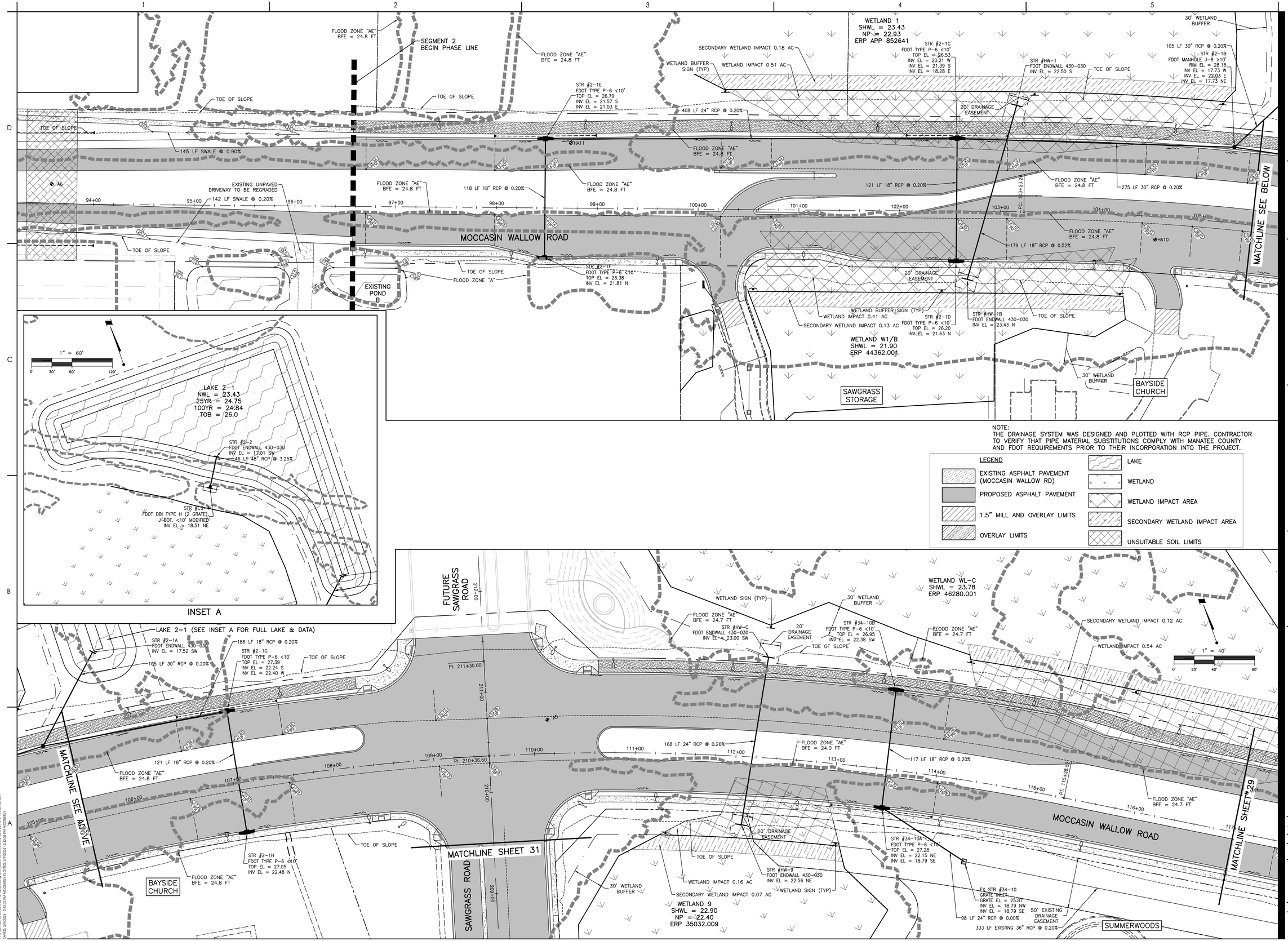
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SUMMARY OF DRAINAGE STRUCTURES

Revision: Sheet: 27 of 126

Drawing No.
27



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MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-1395D
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING, GRADING AND DRAINAGE PLAN

Revision: Sheet: 28 of 126
Drawing No.
28

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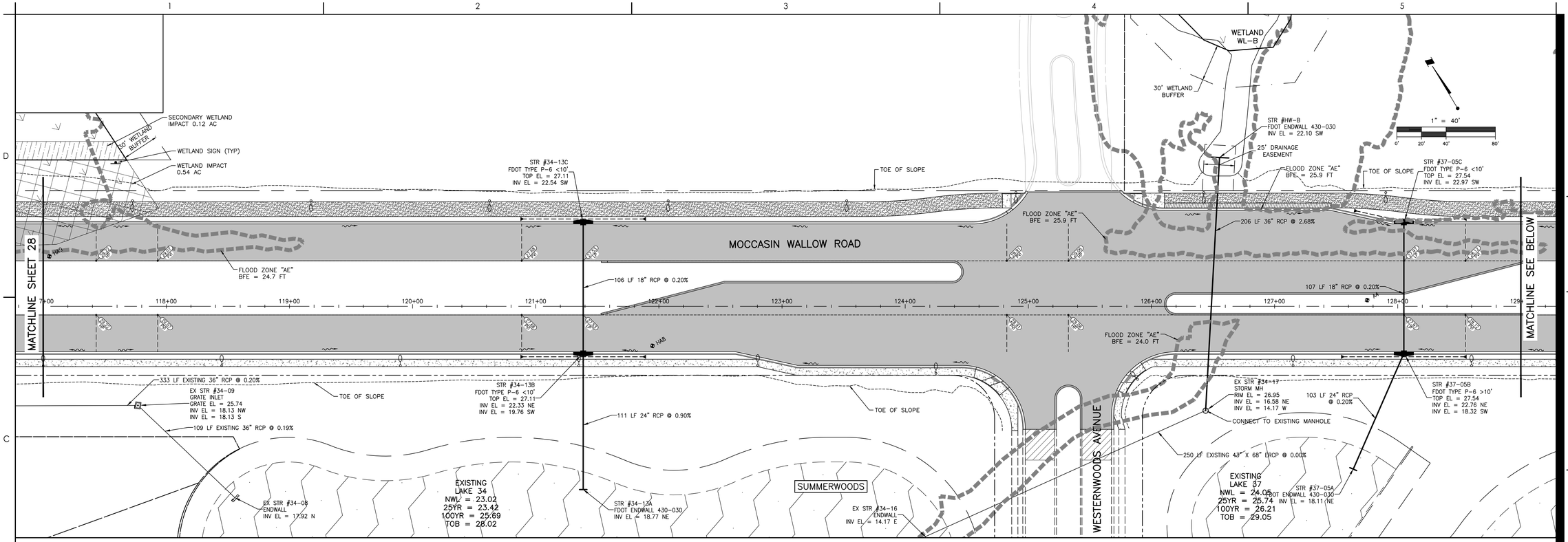

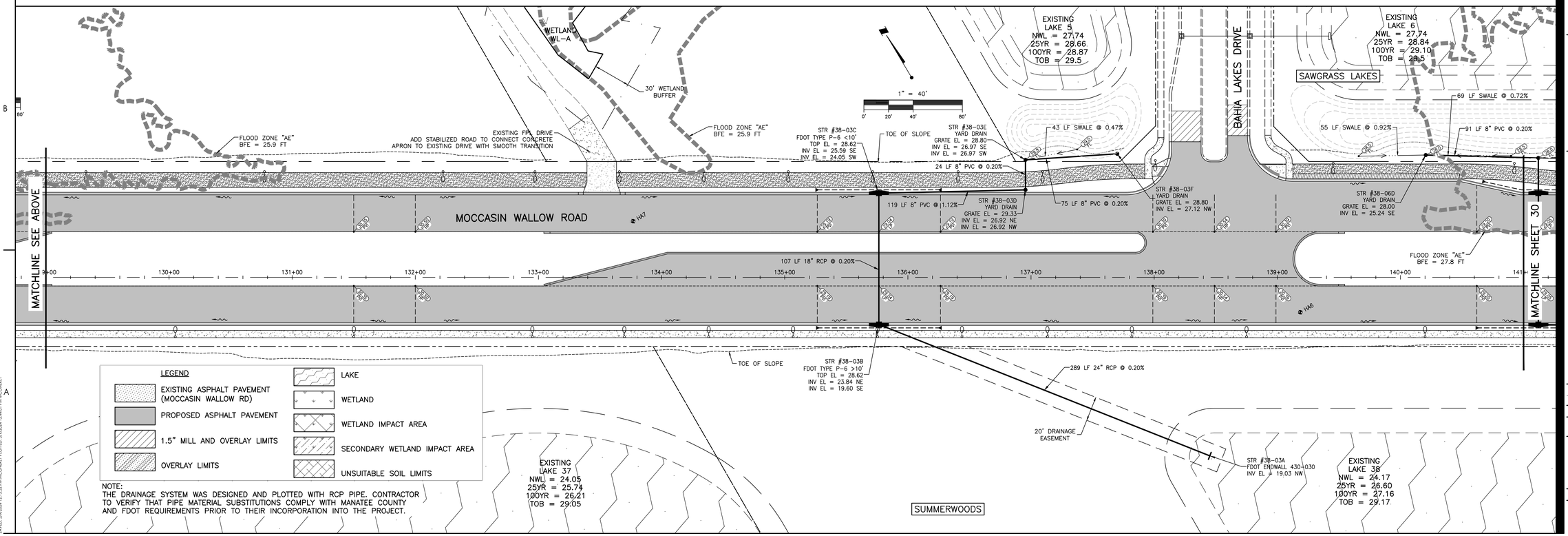

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No.	By	Appd	YYYY.MM.DD
B.	REV	BORE	NUM
Revision	MSC		5/9/24

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-1395D
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING, GRADING AND DRAINAGE PLAN

Revision: Sheet: 29 of 126

Drawing No.
29

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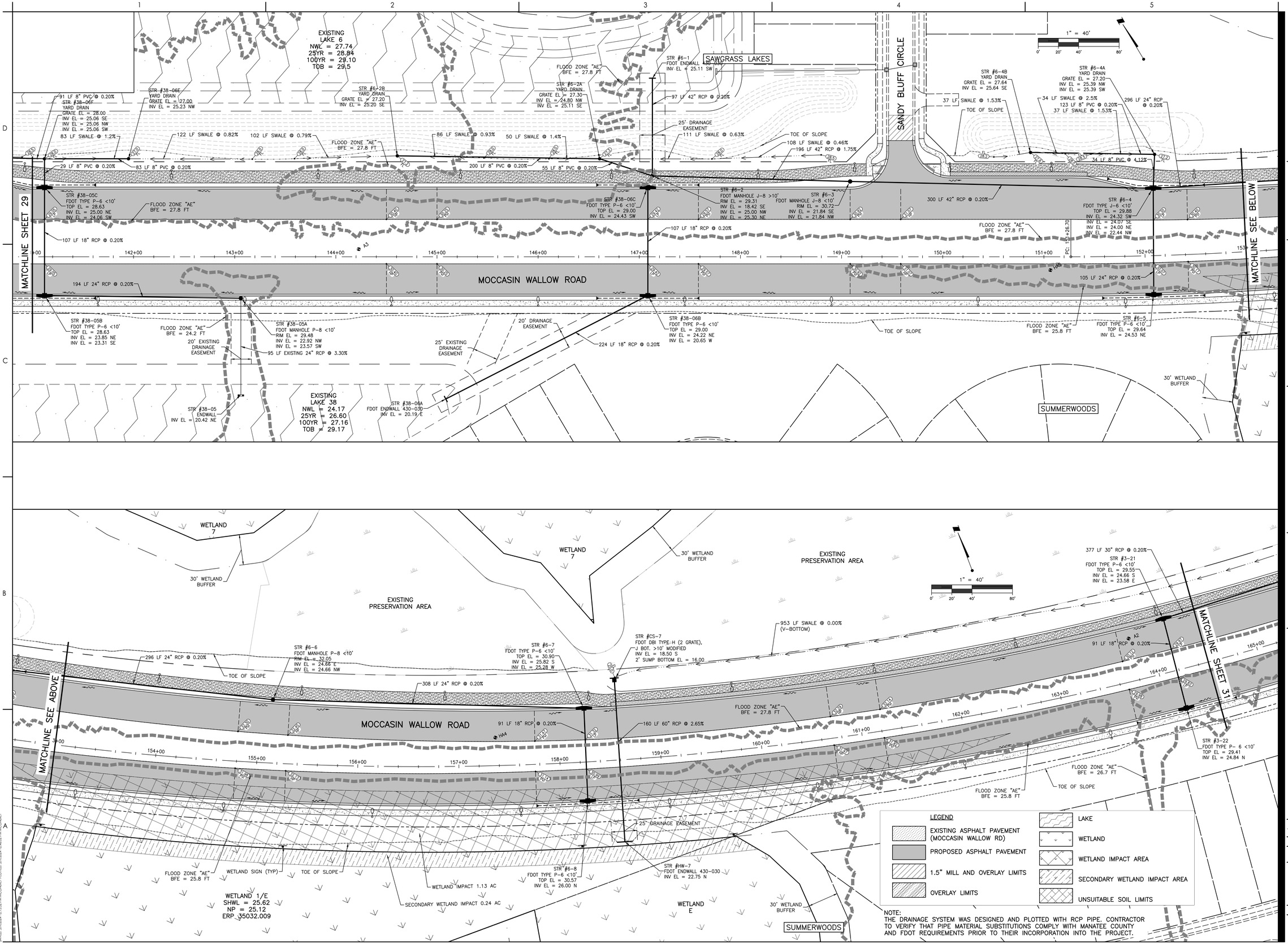

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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-13PSD
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING, GRADING AND DRAINAGE PLAN

Revision: Sheet: 30 of 126

Drawing No.
30

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ORIGINAL SHEET - ARCH D

EXISTING PRESERVATION AREA

EX STR #3-16 ENDWALL INV EL = 21.50 SW

EXISTING LAKE 3 NWL = 25.75 100YR = 28.44 TOB = 29.0

EX STR #169 HEADWALL INV EL = 20.42 S

EX STR #3-6A ENDWALL INV EL = 19.33 S

EXISTING PRESERVATION AREA

STR #3-17 FDOT MANHOLE P-8 <10' RIM EL = 29.19 INV EL = 21.65 SW INV EL = 23.94 NE 2' SUMP BOTTOM EL = 19.65

145 LF EXISTING 24" RCP @ 1.68%

FLOOD ZONE "AE"

25' EXISTING DRAINAGE EASEMENT

157 LF EXISTING 36" RCP @ 2.04%

25' EXISTING DRAINAGE EASEMENT

1" = 40'

0' 20' 40' 80'

54 LF 24" X 38" ERCP @ 0.20%

953 LF SWALE @ 0.00% (V-BOTTOM)

STR #3-20 FDOT MANHOLE P-8 <10' RIM EL = 30.31 INV EL = 22.83 W INV EL = 22.58 E INV EL = 21.76 NE

20' EXISTING DRAINAGE EASEMENT

STR #3-18 FDOT TYPE P-6 <10' TOP EL = 29.16 INV EL = 23.58 S INV EL = 23.04 W

395 LF SWALE @ 0.00% (FLAT BOTTOM)

TOE OF SLOPE

EX STR #170 CONTROL STRUCTURE INV EL = 23.62 N

STR #CS-W41 FDOT DBI TYPE H (4 GRATE), J BOT. >10' MODIFIED INV EL = 17.24 S

136 LF EXISTING 36" RCP @ 0.17%

EX STR #3-15 STORM MH RIM EL = 27.20 INV EL = 20.42 SW INV EL = 19.56 SE INV EL = 19.56 N RAISE RIM TO EL = 27.60

124 LF 36" RCP @ 0.20%

FLOOD ZONE "AE" BFE = 27.8 FT

122 LF EXISTING 36" RCP @ 0.59%

EX STR #3-7 STORM MH - REPLACE COVER WITH FDOT TYPE S INLET TOP TOP EL = 30.43 INV EL = 24.81 S INV EL = 19.95 E INV EL = 19.95 NW

232 LF 30" RCP @ 0.20%

FLOOD ZONE "AE" BFE = 27.8 FT

93 LF 24" RCP @ 0.20%

FLOOD ZONE "AE" BFE = 26.7 FT

433 LF SWALE @ 0.00% (5' FLAT BOTTOM)

130 LF EXISTING 36" RCP @ 0.30%

MATCHLINE SHEET 30

MATCHLINE SEE BELOW

MOCCASIN WALLOW ROAD

REMOVE EXISTING MANHOLE LID AND REPLACE WITH INLET TOP

76 LF 18" RCP @ 0.20%

FLOOD ZONE "AE" BFE = 26.7 FT

76 LF 18" RCP @ 0.20%

108 LF 43" X 68" ERCP @ 0.20%

STR #3-7A FDOT TYPE P-5 <10' TOP EL = 29.53 INV EL = 24.96 N

TOE OF SLOPE

FLOOD ZONE "AE" BFE = 27.8 FT

FLOOD ZONE "AE" BFE = 26.7 FT

STR #3-19 FDOT TYPE P-6 <10' TOP EL = 28.88 INV EL = 23.77 N

FLOOD ZONE "AE" BFE = 26.7 FT

SUMMERWOODS

EXISTING SUMMERWOODS DRIVE

STR #3-172 FDOT MANHOLE J-8 >10' RIM EL = 28.39 INV EL = 17.02 N INV EL = 16.65 E INV EL = 16.65 S

STR #3-15B FDOT TYPE P-6 <10' TOP EL = 28.40 INV EL = 23.83 N

TOE OF SLOPE

FLOOD ZONE "AE" BFE = 26.7 FT

335 LF 72" RCP @ 0.20%

STR #3-173 FDOT MANHOLE J-8 >10' RIM EL = 28.58 INV EL = 17.32 E INV EL = 17.32 W

72 LF 72" RCP @ 0.26%

DRAINAGE EASEMENT (WIDTH VARIES)

50 LF 72" RCP @ 0.20%

STR #3-172A FDOT DBI TYPE H (4 GRATE), J BOT. <10' MODIFIED GRATE EL = 23.39 INV EL = 16.55 N

EXISTING LAKE #L-4B

FLOOD ZONE "AE" BFE = 27.3 FT

NOTE:
THE DRAINAGE SYSTEM WAS DESIGNED AND PLOTTED WITH RCP PIPE. CONTRACTOR TO VERIFY THAT PIPE MATERIAL SUBSTITUTIONS COMPLY WITH MANATEE COUNTY AND FDOT REQUIREMENTS PRIOR TO THEIR INCORPORATION INTO THE PROJECT.

LEGEND

- EXISTING ASPHALT PAVEMENT (MOCCASIN WALLOW RD)
- PROPOSED ASPHALT PAVEMENT
- 1.5" MILL AND OVERLAY LIMITS
- OVERLAY LIMITS
- LAKE
- WETLAND
- WETLAND IMPACT AREA
- SECONDARY WETLAND IMPACT AREA
- UNSUITABLE SOIL LIMITS

EXISTING PRESERVATION AREA

30' WETLAND BUFFER

WETLAND W42

SEGMENT 2 END PHASE LINE

TOE OF SLOPE

FLOOD ZONE "AE" BFE = 27.9 FT

322 LF EXISTING 36" RCP @ 0.59%

EX STR #3-1 FDOT TYPE 6 TOP EL = 31.64 INV EL = 18.05 W INV EL = 25.94 S INV EL = 20.59 E

FLOOD ZONE "AE" BFE = 27.3 FT

76 LF EXISTING 18" RCP @ 0.20%

MATCHLINE SEE ABOVE

MOCCASIN WALLOW ROAD

EX STR #3-2 FDOT TYPE 6 TOP EL = 30.27 INV EL = 26.09 N

76 LF 72" RCP @ 0.26%

STR #CS-W38 FDOT DBI TYPE H (4 GRATE), J BOT. <10' MODIFIED INV EL = 17.52 W

DRAINAGE EASEMENT (WIDTH VARIES)

FLOOD ZONE "AE" BFE = 27.3 FT

WETLAND W38

30' WETLAND BUFFER

EXISTING POND 1

EX STR #33-10 THROAT INLET TOP EL = 25.37 INV EL = 20.50 E

SAWGRASS ROAD

MATCHLINE SHEET 28

MOCCASIN WALLOW ROAD

REPLACE EXISTING INLET TOP WITH MANHOLE LID RIM EL = 25.31

84 LF 30" RCP @ 0.19%

EX STR #33-09 THROAT INLET - REPLACE TOP WITH FDOT TYPE 6 MANHOLE COVER TOP EL = 25.37 INV EL = 20.34 W INV EL = 20.34 E INV EL = 20.34 S

EX STR #33-08 STORM MH TOP EL = 25.83 INV EL = 20.43 N INV EL = 20.13 S

STR #33-09A FDOT TYPE J-6 <10' TOP EL = 25.51 INV EL = 20.36 W

111 LF 30" RCP @ 0.18%

362 LF EXISTING 30" RCP @ 0.20%

108 LF EXISTING 30" RCP @ 0.19%

WETLAND 9 SHWL = 22.90 NP = 22.40 ERP 35032.009

168 LF 24" RCP @ 0.26%

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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-1395D
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING, GRADING AND DRAINAGE PLAN

Revision: Sheet: 31 of 126

Drawing No.
31

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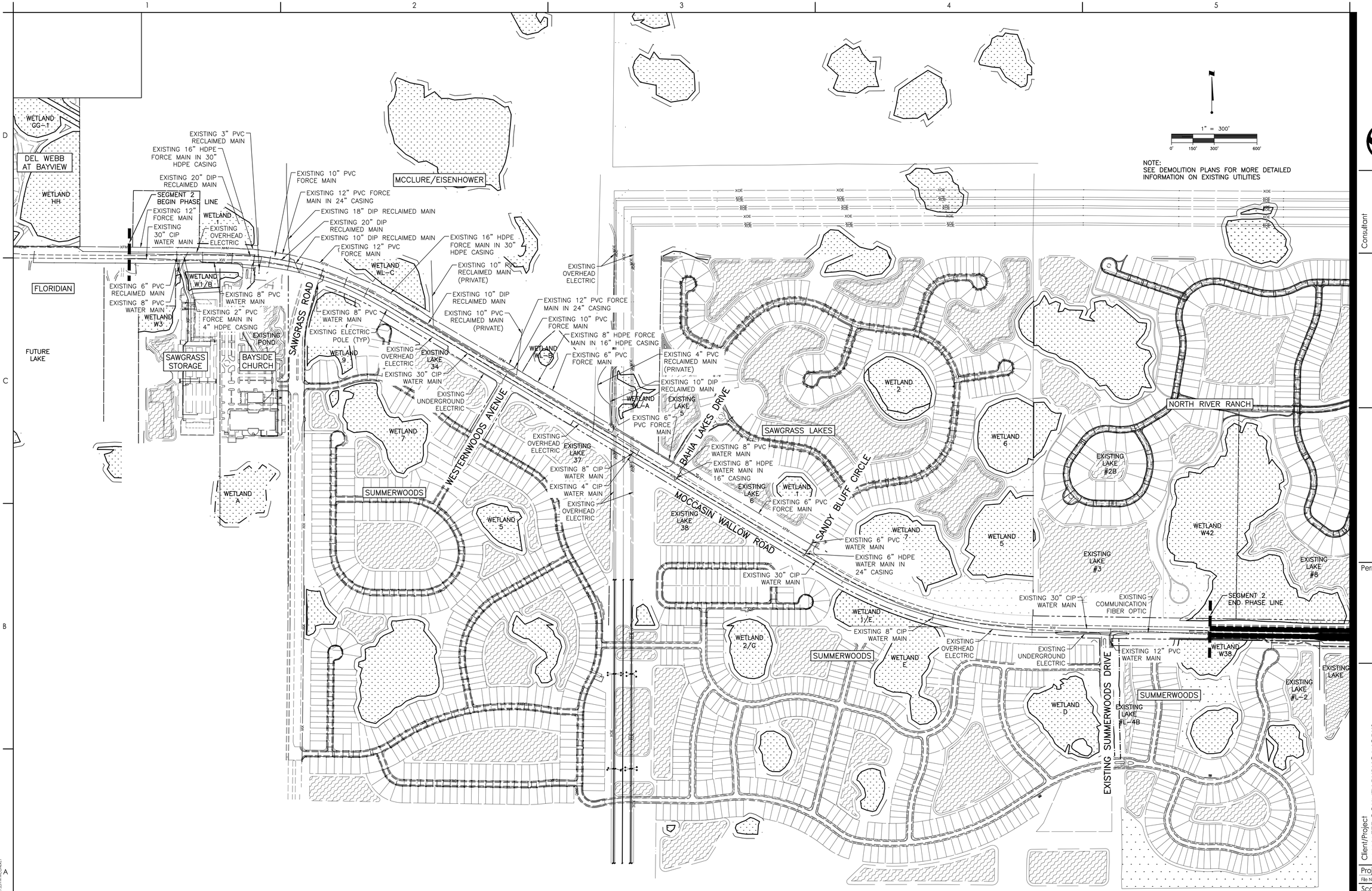

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-150UP
Scale: 1" = 300'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
EXISTING UTILITY PLAN

Revision: Sheet: 32 of 126
Drawing No.
32

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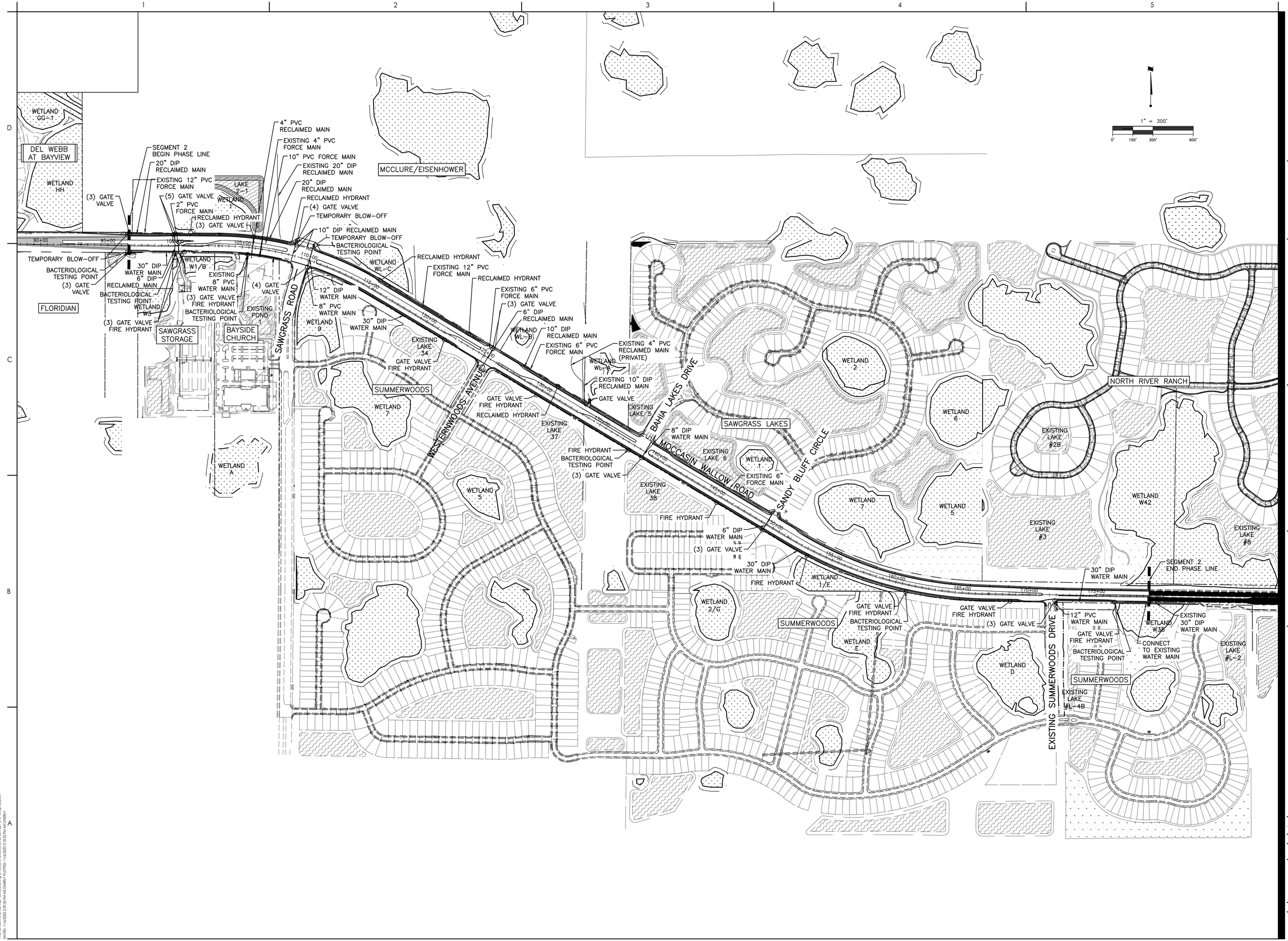

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-151UP
Scale: 1" = 300'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
MASTER UTILITY PLAN

Revision: Sheet: 33 of 126

Drawing No.
33

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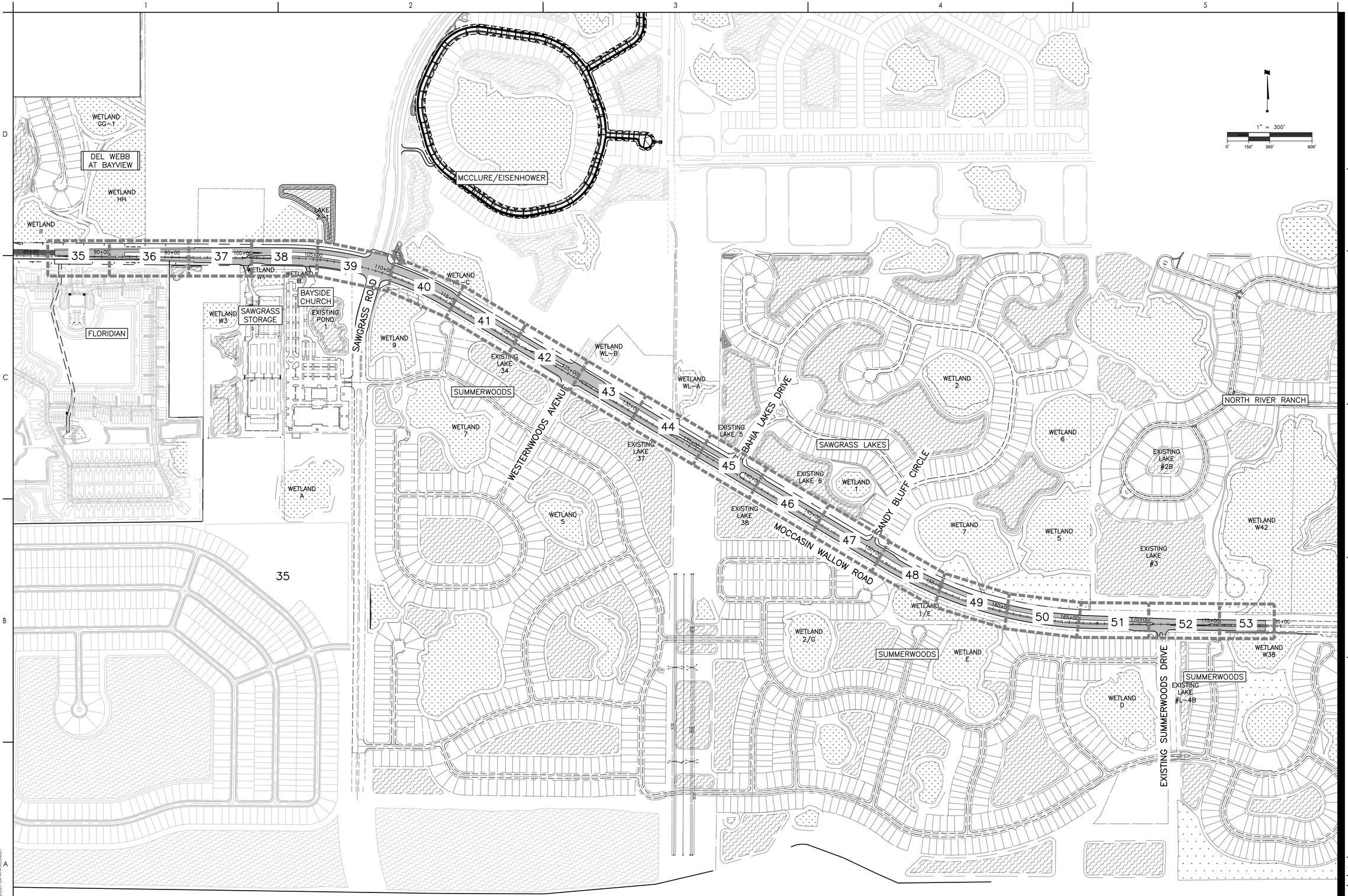

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-153UP

Scale: 1" = 300'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE KEY SHEET

Revision: Sheet: 34 of 126

Drawing No.
34

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ORIGINAL SHEET - ARCH D

DEL WEBB AT BAYVIEW

WETLAND II

WETLAND II

30' WETLAND BUFFER

1" = 20'

0' 10' 20' 40'

EXISTING CONTROL STRUCTURE

EXISTING ELECTRIC UNDERGROUND

EXISTING 15" RCP

EXISTING MITERED END

EXISTING 5' CONCRETE SIDEWALK

EXISTING 16" HDPE FORCE MAIN IN 30" CASING

EXISTING 12" PVC FORCE MAIN

EXISTING 12" GATE VALVE

EXISTING 16"x12" REDUCER

EXISTING 16" HDPE FORCE MAIN

80' EXISTING RIGHT-OF-WAY

EXISTING HEADWALL

8' PAVED SHOULDER

Sta: 86+68.98
Off: 41.68 L

PC
PT
PC
PT

34.5' ASPHALT PAVEMENT

EXISTING 24"X38" ERCP

PG TRANSITION LINE

EXISTING 20" DIP RECLAIMED MAIN

MOCCASIN WALLOW ROAD

EXISTING 30" DIP WATER MAIN

Sta: 86+68.35
Off: 7.34 L

86+00 87+00 88+00 89+00 90+00

CONSTRUCTION BASELINE

8' PAVED SHOULDER

EXISTING 6" PVC WATER MAIN

EXISTING HEADWALL

EXISTING HEADWALL

EXISTING HEADWALL

EXISTING STORM PIPE

EXISTING ELECTRIC POLE (TYP)

EXISTING OVER HEAD ELECTRIC

MATCHLINE SHEET 36

148.2' EXISTING RIGHT-OF-WAY

FLORIDIAN

SEE PLAN VIEW FOR GRADING OF TRANSITION TO EXISTING PAVEMENT

EXISTING GROUND±

*EXISTING 30" DIP WATER MAIN

*EXISTING 20" DIP RECLAIMED MAIN

*EXISTING 12" PVC FORCE MAIN

MATCHLINE STA 90+50

30 28 26 24 22 20 18 16 14 12

86+00 87+00 88+00 89+00 90+00

* 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

ORIGINAL SHEET - ARCH D

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20157

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 35 of 126

Drawing No.
35

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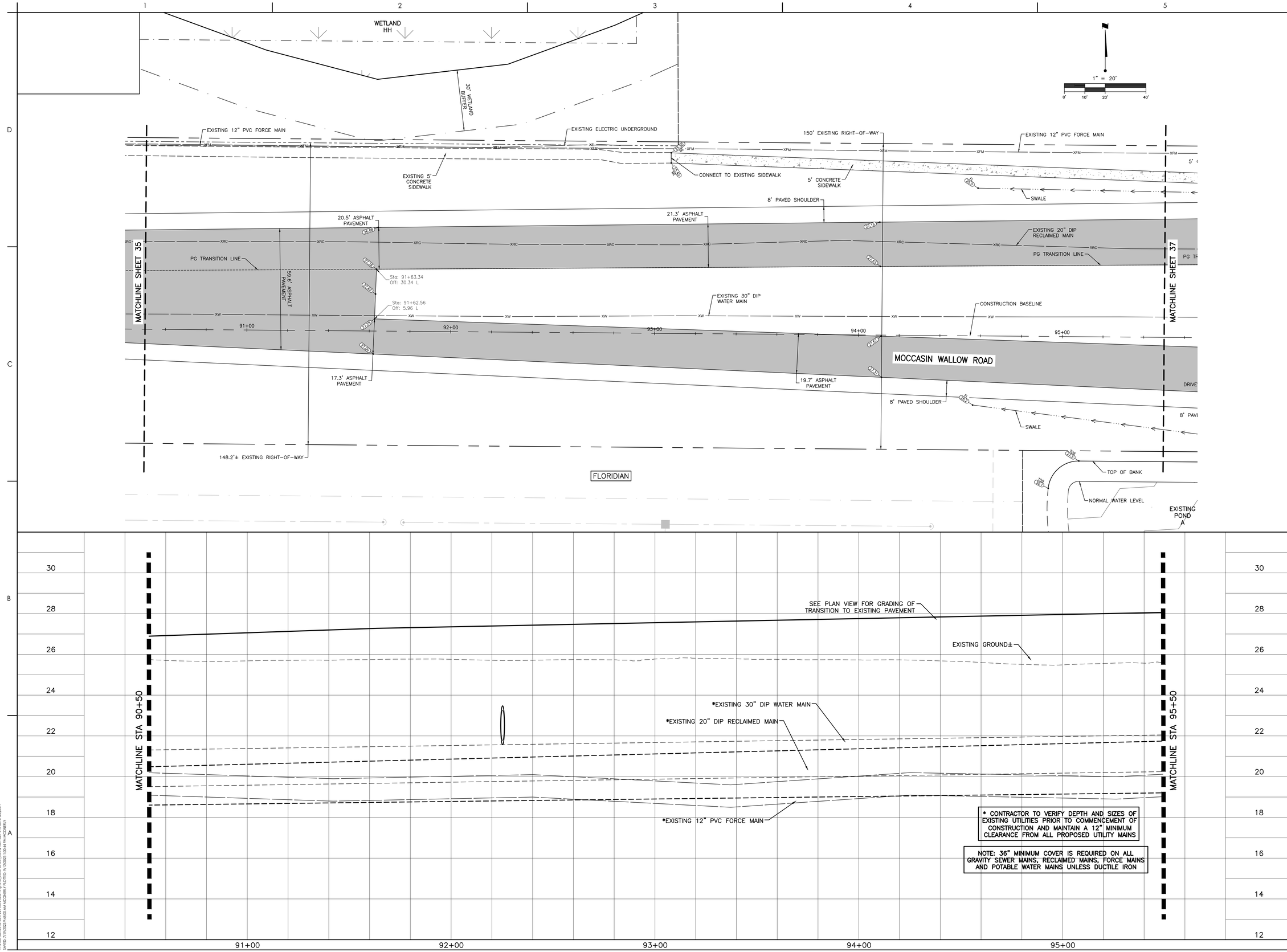

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-201ST

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 36 of 126

Drawing No.
36

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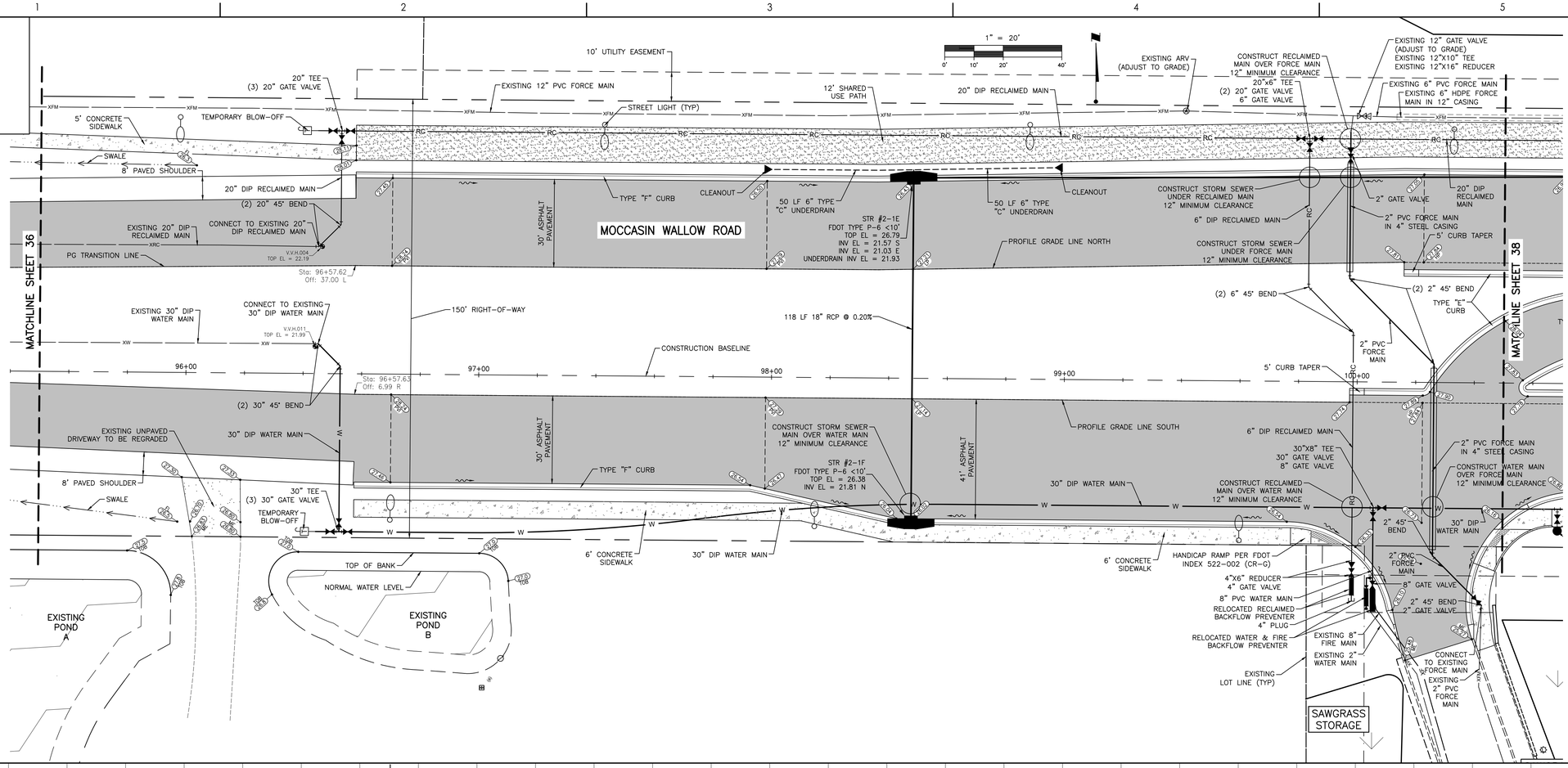

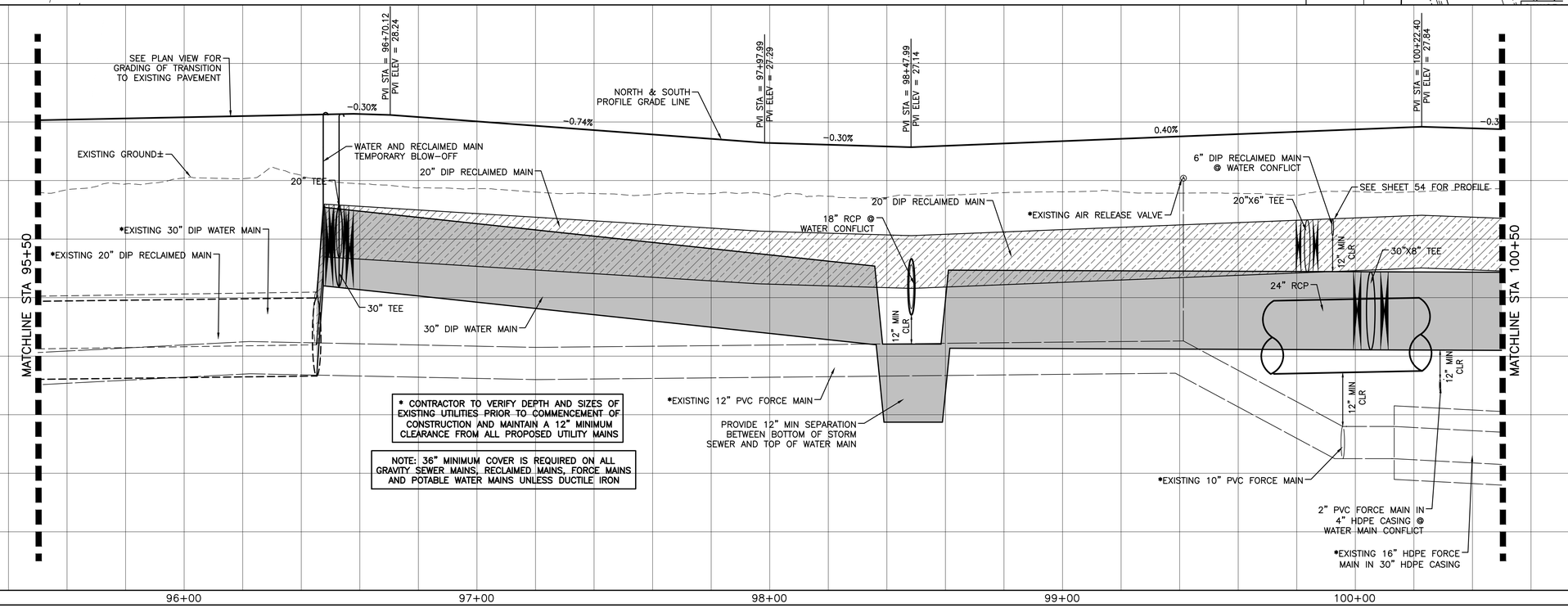

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'
Drawn | Dsgn. | Chkd. | 02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 37 of 126
Drawing No.
37

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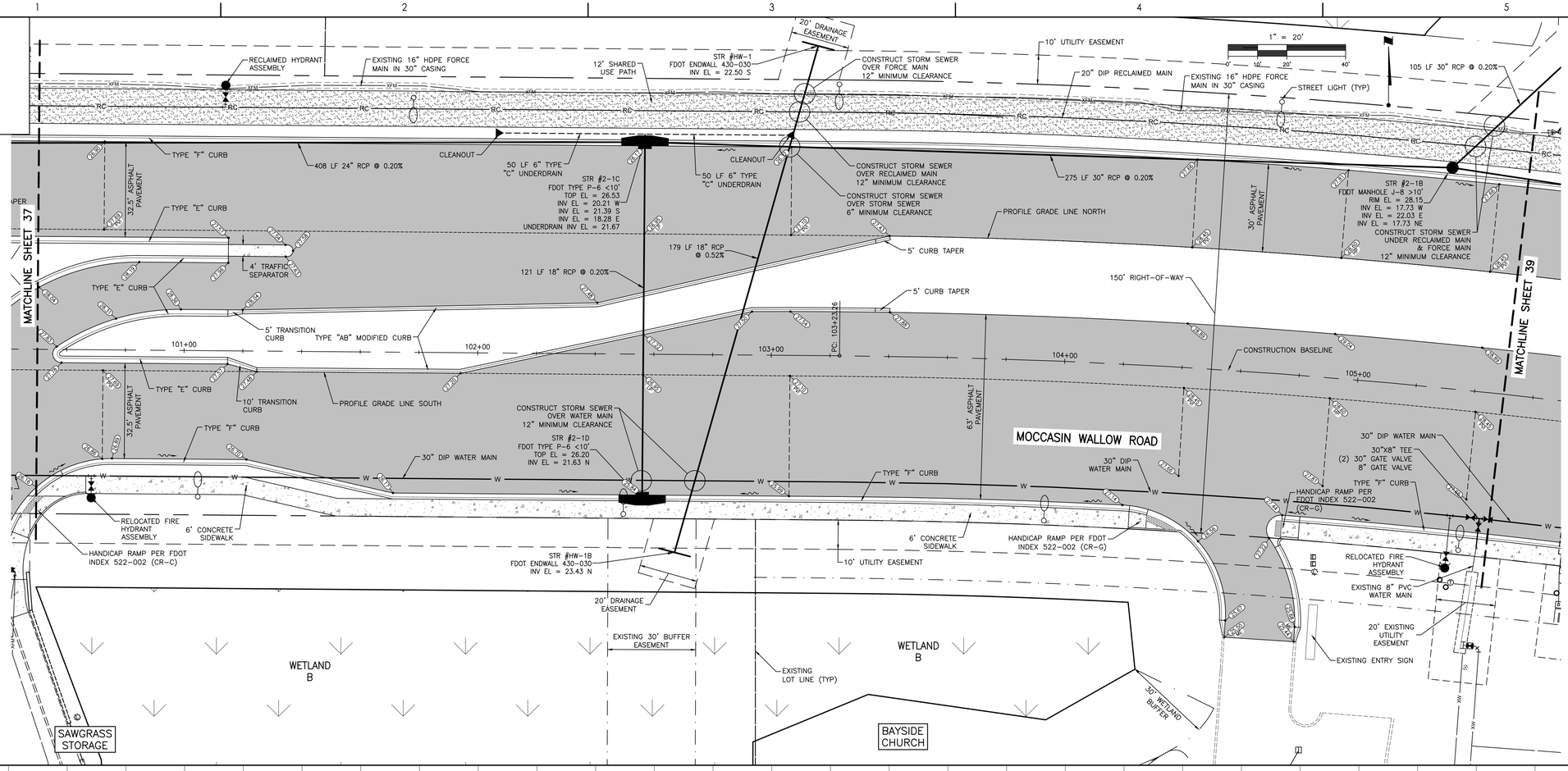

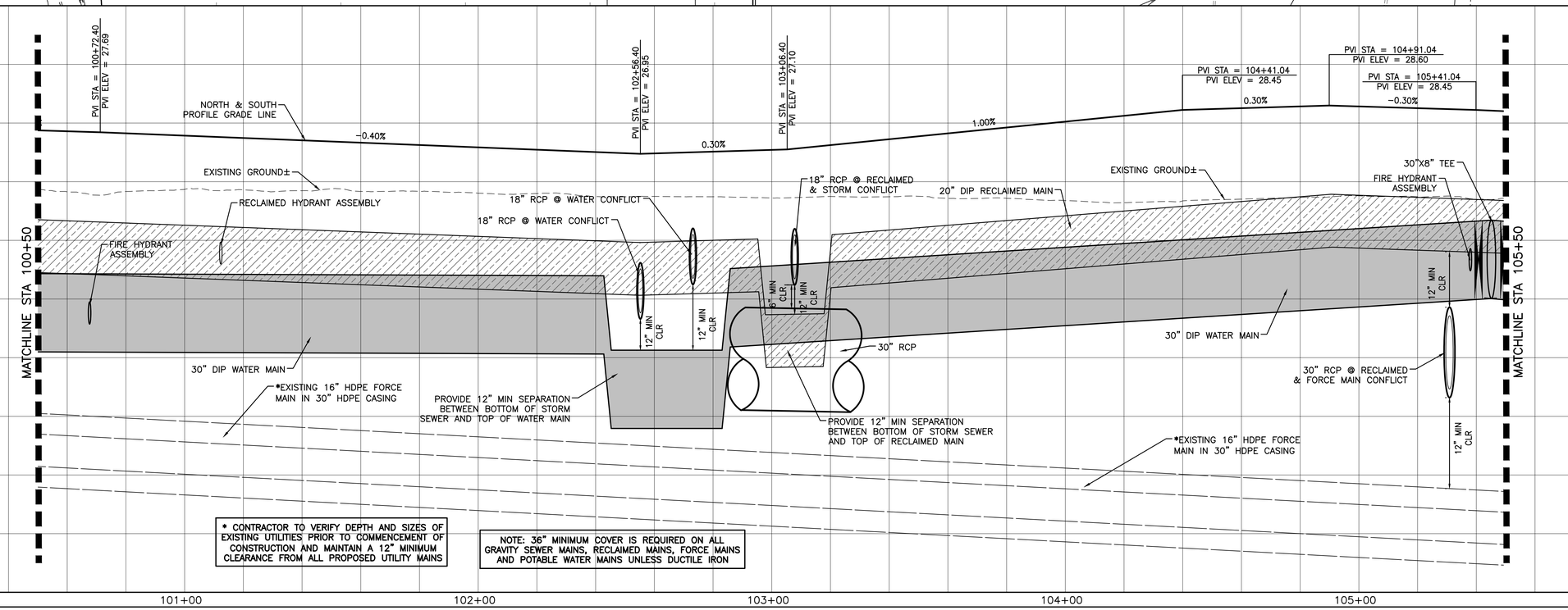

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NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

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Layout: 5/9/2024 2:22:01 PM mccorkell PLOTTED: 5/9/2024 2:34:42 PM mccorkell

ORIGINAL SHEET - ARCH D

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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

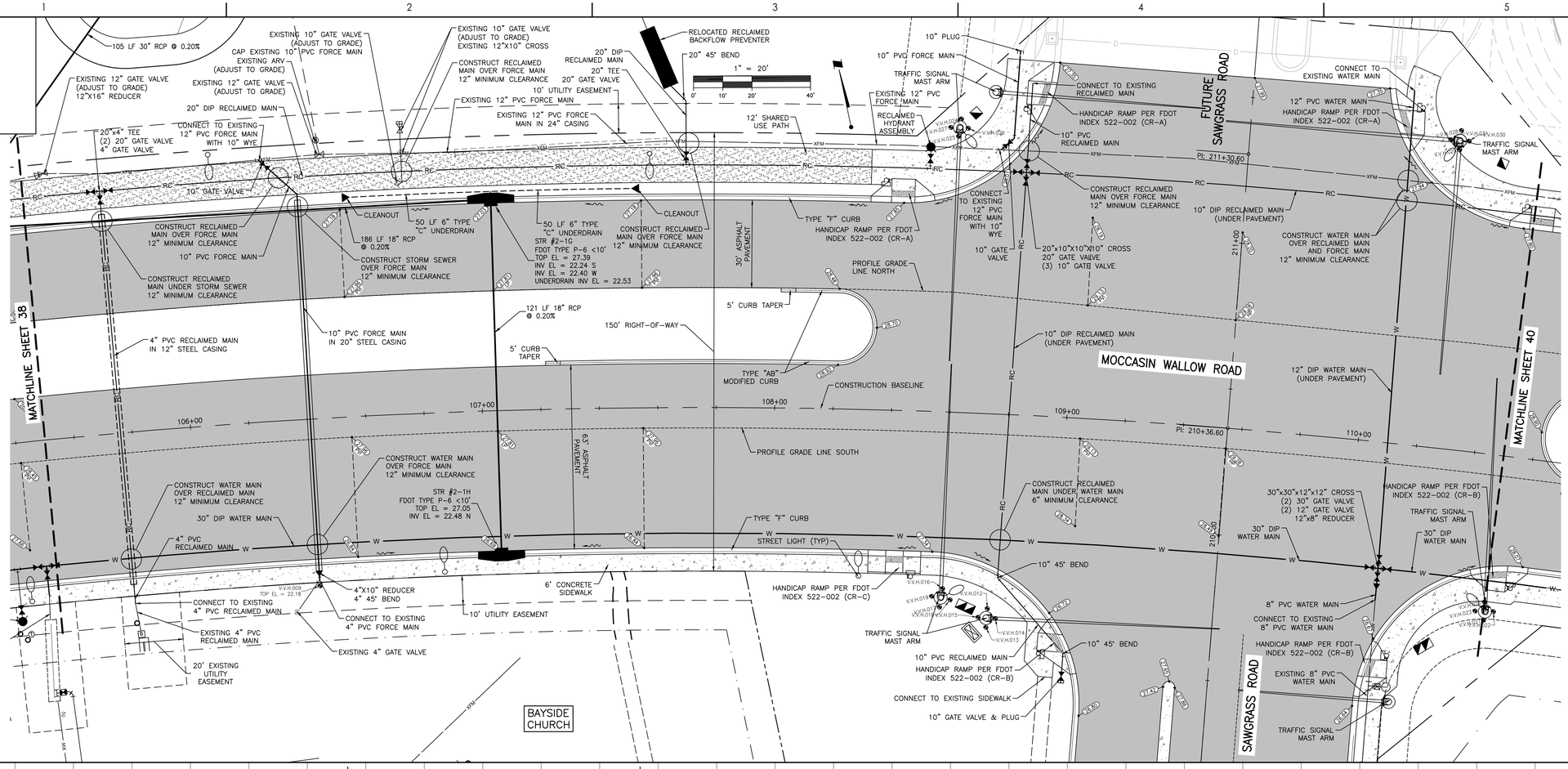
Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

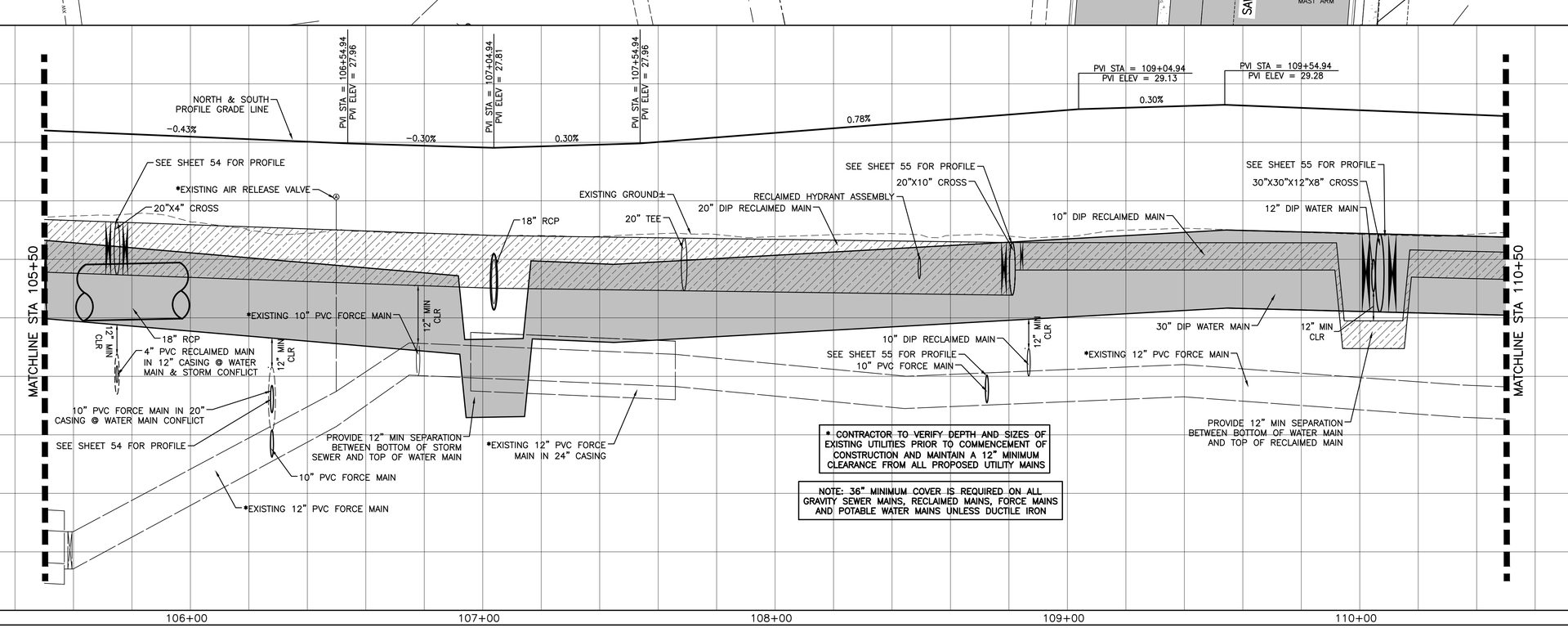
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 38 of 126

Drawing No.
38





* 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

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No.	Revision	By	Appd	YYYY.MM.DD
B	REV. RC MAIN, ADD	MSC		5/9/24
RC	BFP			

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20151

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022
			YYYY.MM.DD

Title
PLAN AND PLOT

Revision: Sheet: 39 of 126

Drawing No.
39

I:\215617221\civil\drawing\01C_cover\sheet_files\215617221-01C-20151.dwg
LAYER: 3/16/2024 11:55:55 AM MCOHEN PLOTTED: 5/7/2024 12:12:08 PM MCOHEN

ORIGINAL SHEET - ARCH D

WETLAND WL-C

1" = 20'
0' 10' 20' 40'

20' DRAINAGE EASEMENT
STR #HW-C
FDOT ENDWALL 430-030
INV EL = 23.09 SW
10' UTILITY EASEMENT
30' WETLAND BUFFER
EXISTING 12" GATE VALVE (ADJUST TO GRADE)
EXISTING 16"x12" REDUCER
EXISTING 12" PVC FORCE MAIN
EXISTING 16" HDPE FORCE MAIN IN 30" HDPE CASING
STREET LIGHT (TYP)
EXISTING 16" HDPE FORCE MAIN IN 30" HDPE CASING
SHARED USE PATH & BUFFER
10" PVC RECLAIMED MAIN
12' SHARED USE PATH
HANDICAP RAMP PER FDOT INDEX 522-002 (CR-A)
10" PVC RECLAIMED MAIN
TYPE "F" CURB
CONSTRUCT STORM SEWER OVER FORCE MAIN 12" MINIMUM CLEARANCE
CONSTRUCT STORM SEWER OVER RECLAIMED MAIN 12" MINIMUM CLEARANCE
10" PVC RECLAIMED MAIN
STR #34-10B
FDOT TYPE P-6 <10'
TOP EL = 26.95
INV EL = 22.38 SW
TYPE "F" CURB
RECLAIMED HYDRANT ASSEMBLY
52' ASPHALT PAVEMENT
PROFILE GRADE LINE NORTH
TYPE "AB" MODIFIED CURB
5' CURB TAPER
MATCHLINE SHEET 39
168 LF 24" RCP @ 0.26%
CONSTRUCTION BASELINE
117 LF 18" RCP @ 0.20%
150' RIGHT-OF-WAY
111+00
112+00
113+00
114+00
115+00
PT: 115+28.52
MATCHLINE SHEET 41
5' CURB TAPER
PROFILE GRADE LINE SOUTH
MOCCASIN WALLOW ROAD
STR #34-10A
FDOT TYPE P-6 <10'
TOP EL = 27.28
INV EL = 22.15 NE
INV EL = 18.79 SE
UNDERDRAIN INV EL = 22.42
50 LF 6" TYPE "C" UNDERDRAIN
50 LF 6" TYPE "C" UNDERDRAIN
CLEANOUT
FIRE HYDRANT ASSEMBLY
30' ASPHALT PAVEMENT
TYPE "F" CURB
CONSTRUCT STORM SEWER OVER WATER MAIN 12" MINIMUM CLEARANCE
CLEANOUT
TYPE "F" CURB
30" DIP WATER MAIN
6' CONCRETE SIDEWALK
30" GATE VALVE
30" DIP WATER MAIN
STR #HW-9
FDOT ENDWALL 430-030
INV EL = 22.56 NE
EXISTING 10' UTILITY EASEMENT
CONSTRUCT STORM SEWER UNDER WATER MAIN 6" MINIMUM CLEARANCE
98 LF 24" RCP @ 0.00%
20' DRAINAGE EASEMENT
EXISTING 50' DRAINAGE EASEMENT
30' WETLAND BUFFER
EX STR #34-10
GRATE INLET
GRATE EL = 25.67
INV EL = 18.79 NW
INV EL = 18.79 SE
SUMMERWOODS
WETLAND 9

NORTH & SOUTH PROFILE GRADE LINE
-0.40%
0.30%
PVI STA = 113+49.94
PVI ELEV = 27.70
PVI STA = 114+01.90
PVI ELEV = 27.86
MATCHLINE STA 110+50
MATCHLINE STA 115+50
10" PVC RECLAIMED MAIN
24" RCP @ RECLAIM & FORCE MAIN CONFLICT
24" RCP @ WATER CONFLICT
12" MIN CLR
12" MIN CLR
18" RCP
EXISTING GROUND±
FIRE HYDRANT ASSEMBLY
10" PVC RECLAIMED MAIN
RECLAIMED HYDRANT ASSEMBLY
10" PVC RECLAIMED MAIN
30" DIP WATER MAIN
PROVIDE 12" MIN SEPARATION BETWEEN BOTTOM OF STORM WATER AND TOP OF WATER MAIN AND RECLAIMED MAIN
6" MIN CLR
24" RCP @ WATER CONFLICT
30" DIP WATER MAIN
*EXISTING 16" HDPE FORCE MAIN IN 30" HDPE CASING
*EXISTING 16" HDPE FORCE MAIN IN 30" HDPE CASING
*EXISTING 12" PVC FORCE MAIN

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

* 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

111+00 112+00 113+00 114+00 115+00

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 40 of 126
Drawing No.
40

x:\215\jax\active\215617221\civil\sheet_files\215617221-01c_corr\sheet_files\215617221-01c-201sht\layouts\5
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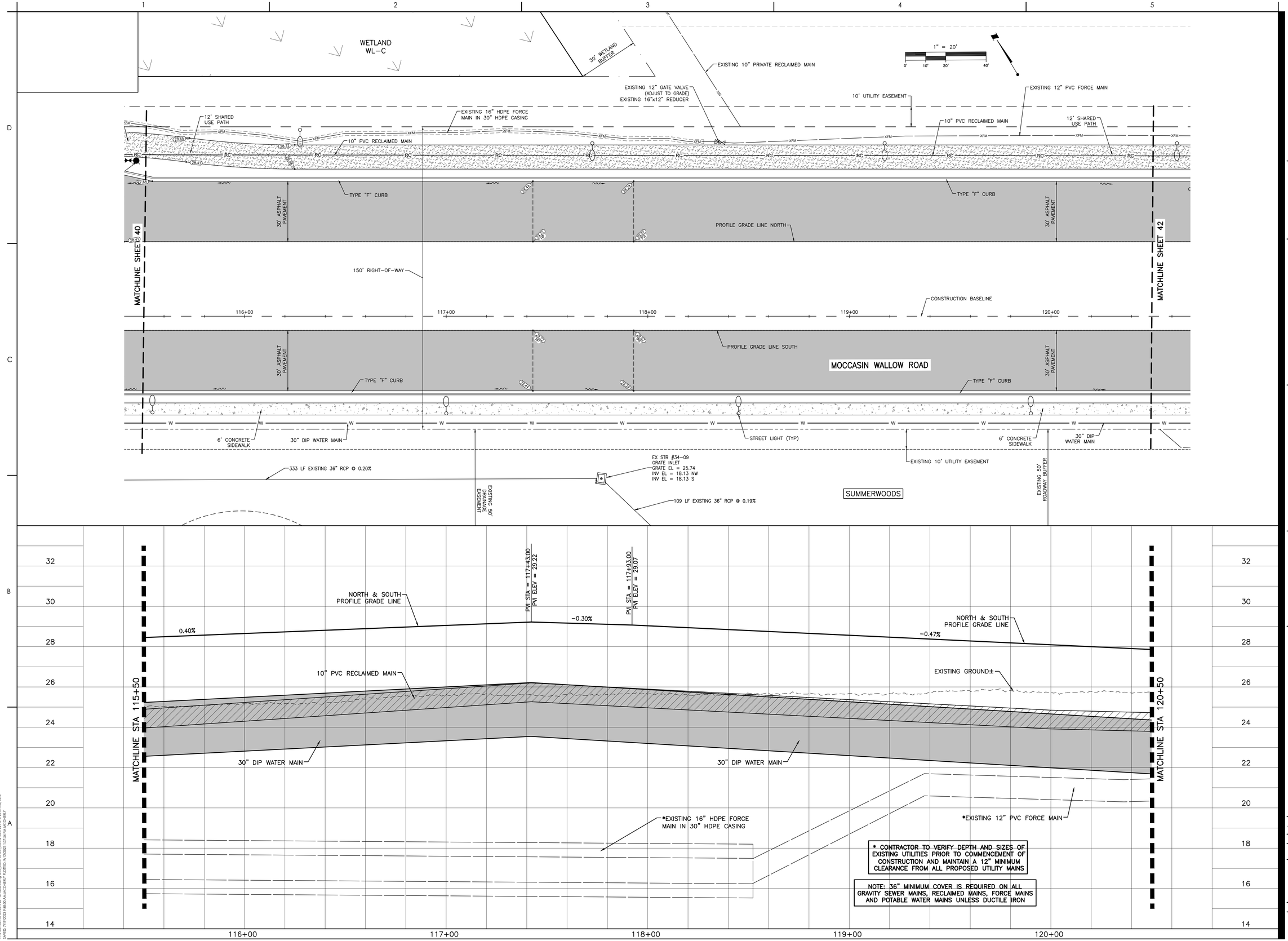

ORIGINAL SHEET - ARCH D

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Revision	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-201ST

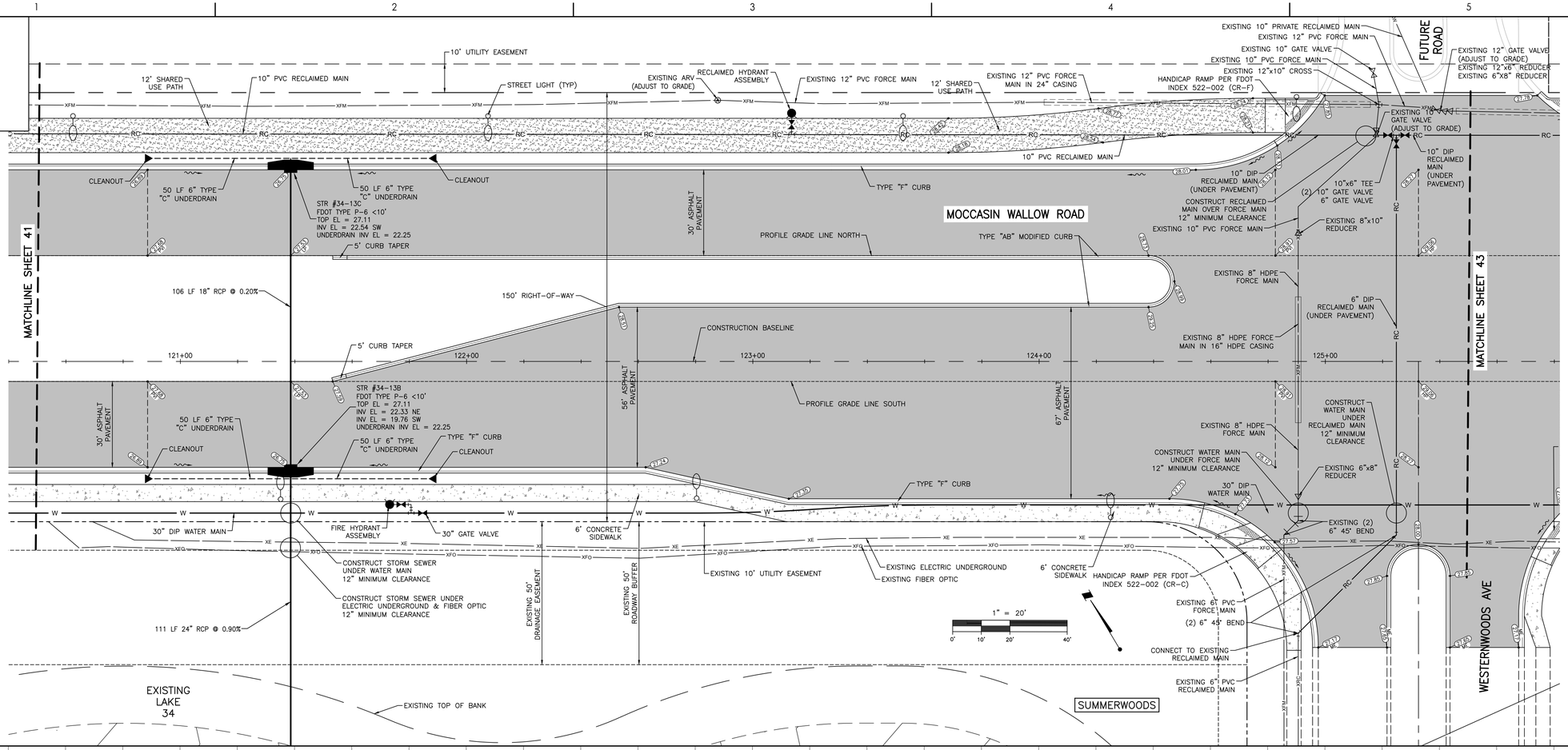
Scale: HORZ: 1" = 20' VERT: 1" = 2'

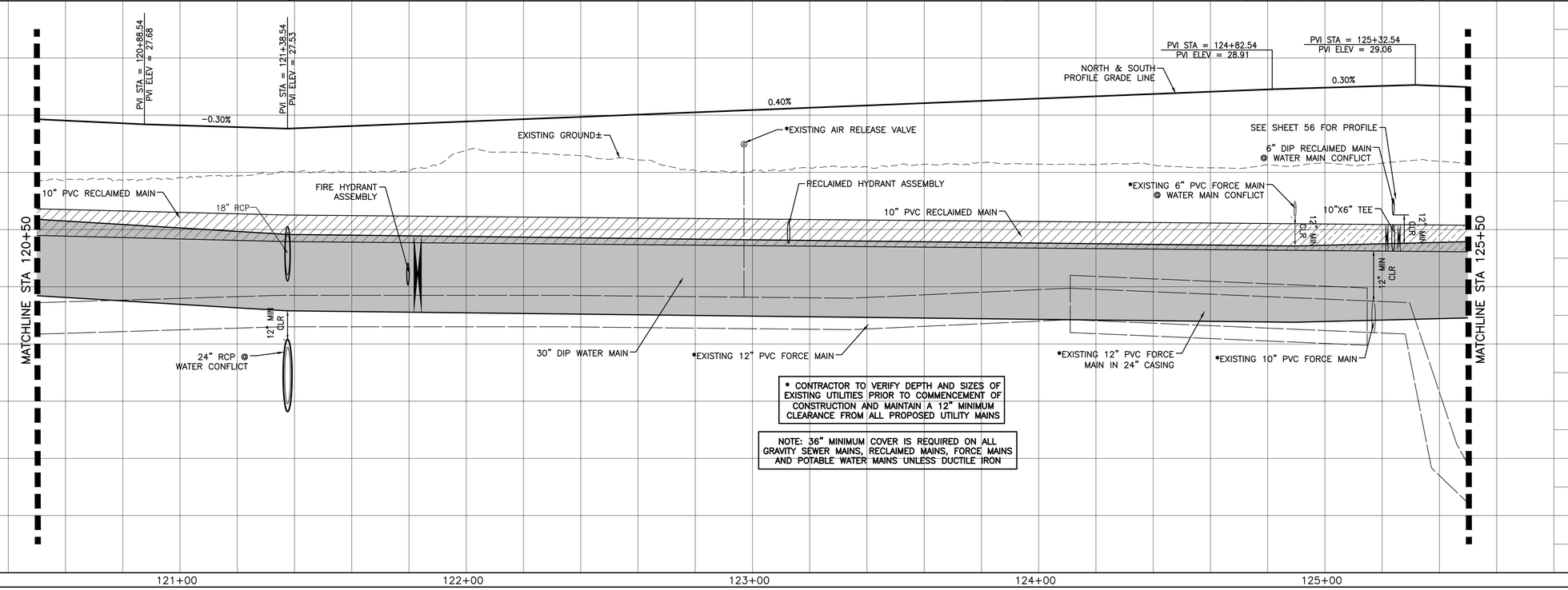
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 41 of 126

Drawing No.
41





* 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

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1	Issued			

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PLOT

Revision: Sheet: 42 of 126
Drawing No.
42

x:\215617221\cad\civil\215617221-01c-201st.dwg
LAYER: 7 HV:2023.1 8:48:00 AM MCDANIEL PLOTTED: 9/1/2023 1:39:11 PM by MCDANIEL
ORIGINAL SHEET - ARCH D

STR #HW-B
FDOT ENDWALL 430-030
INV EL = 22.10 SW

25' DRAINAGE EASEMENT

EXISTING 8" HDPE FORCE MAIN IN 16" HDPE CASING

10' UTILITY EASEMENT

HANDICAP RAMP PER FDOT INDEX 522-002 (CR-D)

SHARED USE PATH & BUFFER

EXISTING 8"x6" REDUCER
EXISTING 6" GATE VALVE (ADJUST TO GRADE)

10" PVC RECLAIMED MAIN

EXISTING 6" PVC FORCE MAIN

STREET LIGHT (TYP)

12' SHARED USE PATH

10" DIP RECLAIMED MAIN (UNDER PAVEMENT)

CONSTRUCT STORM SEWER OVER FORCE MAIN 12" MINIMUM CLEARANCE

CONSTRUCT STORM SEWER UNDER RECLAIMED MAIN 12" MINIMUM CLEARANCE

TYPE "F" CURB

10" PVC RECLAIMED MAIN

CLEANOUT

40 LF 6" TYPE "C" UNDERDRAIN

50 LF 6" TYPE "C" UNDERDRAIN

CLEANOUT

TYPE "F" CURB

MOCCASIN WALLOW ROAD

67' ASPHALT PAVEMENT

30' ASPHALT PAVEMENT

STR #37-05C
FDOT TYPE P-6 <10'
TOP EL = 27.54
INV EL = 22.97 SW
UNDERDRAIN INV EL = 22.68

PROFILE GRADE LINE NORTH

5' CURB TAPER

MATCHLINE SHEET 42

MATCHLINE SHEET 44

TYPE "AB" MODIFIED CURB

206 LF 36" RCP @ 2.68%

107 LF 18" RCP @ 0.20%

150' RIGHT-OF-WAY

CONSTRUCTION BASELINE

126+00 127+00 128+00 129+00 130+00

PROFILE GRADE LINE SOUTH

STR #37-05B
FDOT TYPE P-6 >10'
TOP EL = 27.54
INV EL = 22.76 NE
INV EL = 18.32 SW
UNDERDRAIN INV EL = 22.68

5' CURB TAPER

30' ASPHALT PAVEMENT

CONSTRUCT STORM SEWER UNDER WATER MAIN 12" MINIMUM CLEARANCE

50 LF 6" TYPE "C" UNDERDRAIN

50 LF 6" TYPE "C" UNDERDRAIN

6' CONCRETE SIDEWALK

FIRE HYDRANT ASSEMBLY

30" GATE VALVE

30" DIP WATER MAIN

HANDICAP RAMP PER FDOT INDEX 522-002 (CR-C)

TYPE "F" CURB

CLEANOUT

CLEANOUT

30" DIP WATER MAIN

CONSTRUCT STORM SEWER UNDER ELECTRIC UNDERGROUND & FIBER OPTIC 12" MINIMUM CLEARANCE

EXISTING 10' UTILITY EASEMENT

CONSTRUCT STORM SEWER UNDER WATER MAIN 12" MINIMUM CLEARANCE

CONSTRUCT STORM SEWER UNDER ELECTRIC UNDERGROUND & FIBER OPTIC 12" MINIMUM CLEARANCE

EXISTING 50' ROADWAY BUFFER

EX STR #34-17
STORM MH
RIM EL = 26.95
INV EL = 16.58 NE
INV EL = 14.17 W

WESTERNWOODS AVE

EXISTING TOP OF BANK

EXISTING NORMAL WATER LEVEL

103 LF 24" RCP @ 0.20%

1" = 20'
0' 10' 20' 40'

EXISTING LAKE 37

250 LF EXISTING 43" X 68" ERCP @ 0.00%

STR #37-05A
FDOT ENDWALL 430-030
INV EL = 18.11 NE

SUMMERWOODS

EXISTING TOP OF BANK

PVI STA = 128+05.00
PVI ELEV = 27.97

PVI STA = 128+55.00
PVI ELEV = 28.12

NORTH & SOUTH PROFILE GRADE LINE

-0.40%

0.30%

0.76%

EXISTING GROUND±

FIRE HYDRANT ASSEMBLY

10" DIP RECLAIMED MAIN

10" PVC RECLAIMED MAIN

18" RCP

MATCHLINE STA 125+50

MATCHLINE STA 130+50

12" MIN CLR

*EXISTING 6" PVC FORCE MAIN

30" DIP WATER MAIN

36" RCP @ WATER CONFLICT

36" RCP @ RECLAIM & FORCE MAIN CONFLICT

24" RCP @ WATER CONFLICT

*EXISTING 8" HDPE FORCE MAIN IN 16" HDPE CASING

* 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

126+00 127+00 128+00 129+00 130+00

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No.	Revision	By	Appd	YYYY.MM.DD

Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'
Drawn Dsgn. Chkd. 02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 43 of 126

Drawing No.
43

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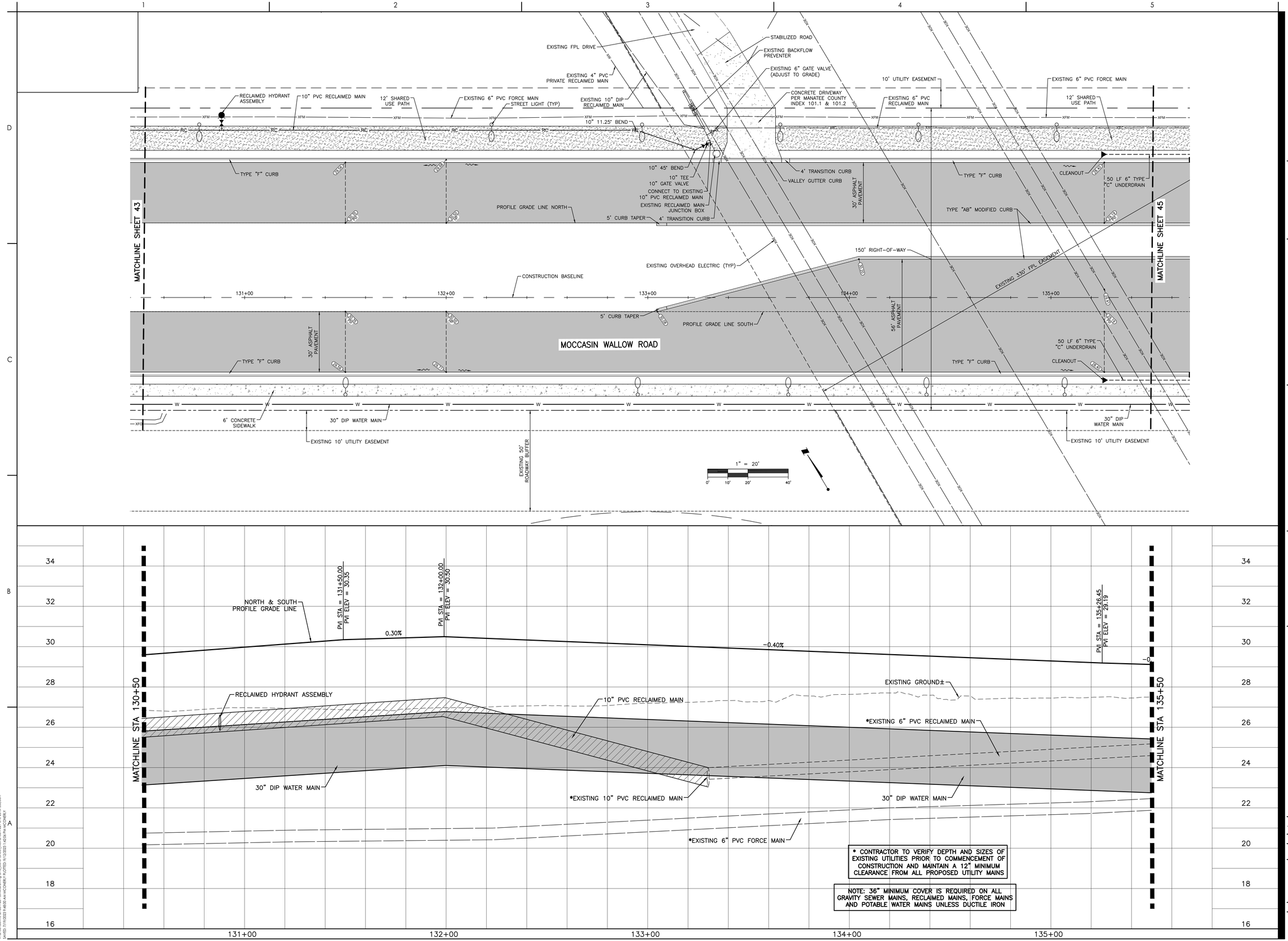
ORIGINAL SHEET - ARCH D



* 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

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Revision	By	Appd	YYYY.MM.DD

Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-201ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

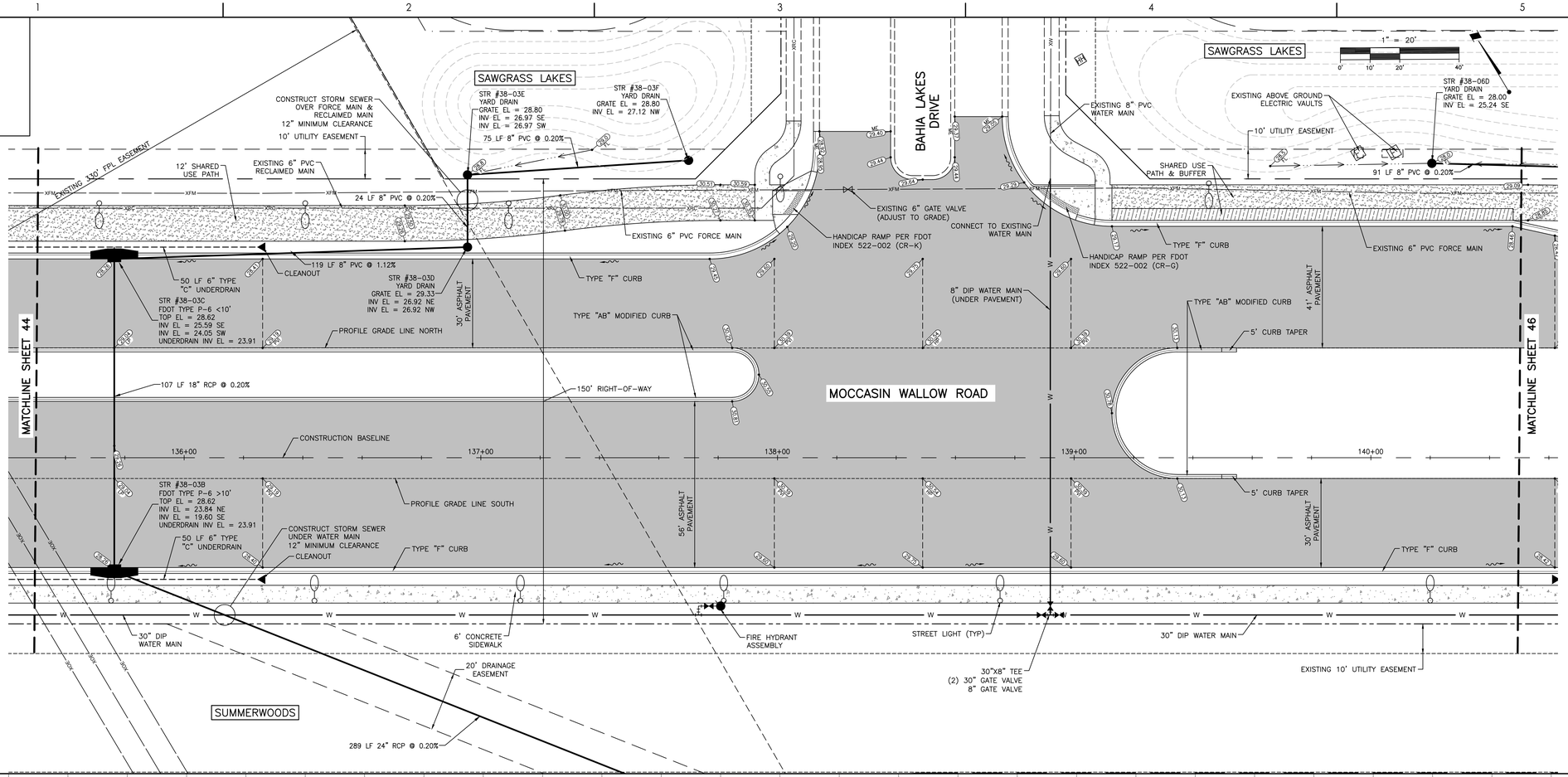
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

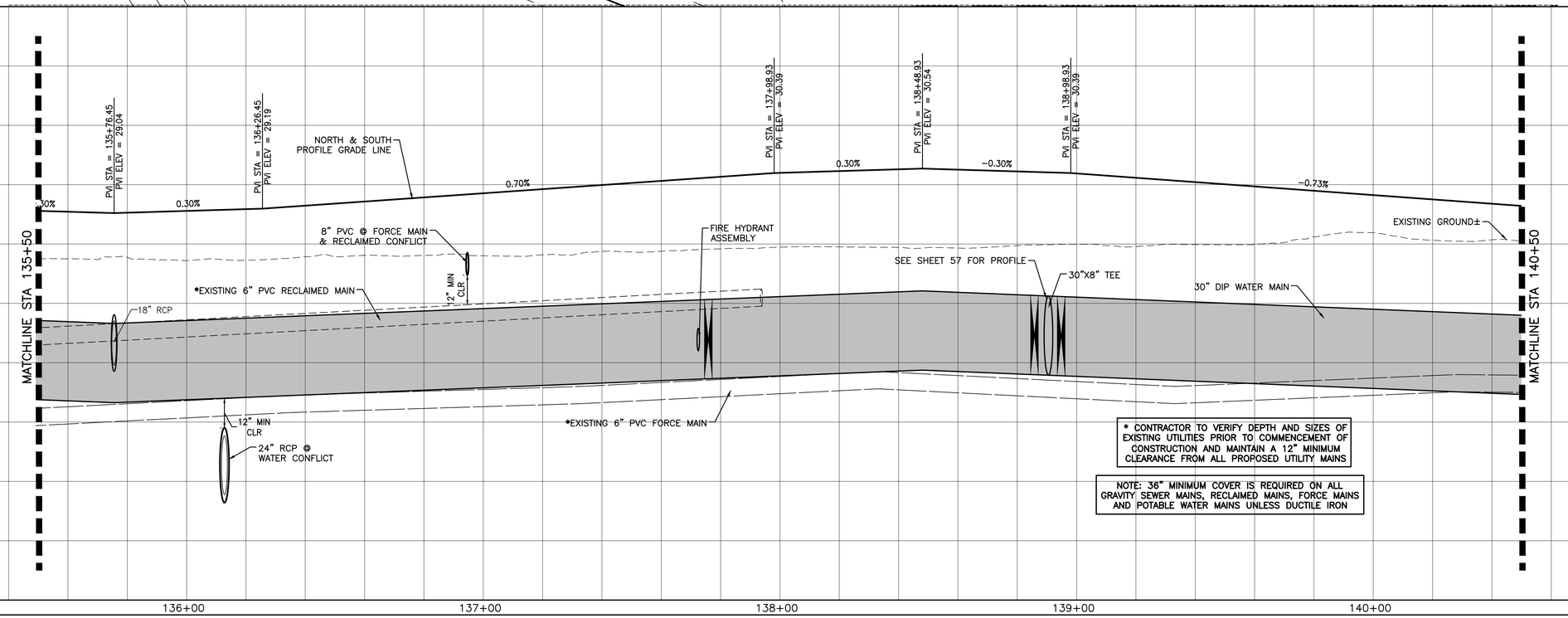
Title
PLAN AND PROFILE

Revision: Sheet: 44 of 126

Drawing No.
44

ORIGINAL SHEET - ARCH D





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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20251

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 45 of 126

Drawing No.
45

v:\215\active\215617221\civil\drawing\01c_construction\sheet_files\215617221-01c-20251.dwg
LAYER: 9/12/2023 9:23:51 AM MCCONNEY PLOTTED: 9/12/2023 1:47:00 PM by CONNEY

ORIGINAL SHEET - ARCH D

SAWGRASS LAKES

STR #38-06F
YARD DRAIN
GRATE EL = 28.00
INV EL = 25.06 SE
INV EL = 25.06 NW
INV EL = 25.06 SW

91 LF 8" PVC @ 0.20%

STR #38-06E
YARD DRAIN
GRATE EL = 27.00
INV EL = 25.23 NW

10' UTILITY EASEMENT

1" = 20'
0' 10' 20' 40'

STR #6-2B
YARD DRAIN
GRATE EL = 27.20
INV EL = 25.20 SE

200 LF 8" PVC @ 0.20%

83 LF 8" PVC @ 0.20%

EXISTING 6" PVC FORCE MAIN

29 LF 8" PVC @ 0.20%

CLEANOUT

45 LF 6" TYPE "C" UNDERDRAIN

50 LF 6" TYPE "C" UNDERDRAIN

CLEANOUT

TYPE "F" CURB

12' SHARED USE PATH

MOCCASIN WALLOW ROAD

TYPE "F" CURB

12' SHARED USE PATH

STR #38-05C
FDOT TYPE P-6 <10'
TOP EL = 28.63
INV EL = 25.00 NE
INV EL = 24.06 SW
UNDERDRAIN INV EL = 23.77

PROFILE GRADE LINE NORTH

30' ASPHALT PAVEMENT

MATCHLINE SHEET 45

MATCHLINE SHEET 47

107 LF 18" RCP @ 0.20%

150' RIGHT-OF-WAY

CONSTRUCTION BASELINE

141+00 142+00 143+00 144+00 145+00

STR #38-05B
FDOT TYPE P-6 <10'
TOP EL = 28.63
INV EL = 23.85 NE
INV EL = 23.31 SE
UNDERDRAIN INV EL = 23.77

PROFILE GRADE LINE SOUTH

50 LF 6" TYPE "C" UNDERDRAIN

CLEANOUT

50 LF 6" TYPE "C" UNDERDRAIN

CLEANOUT

194 LF 24" RCP @ 0.20%

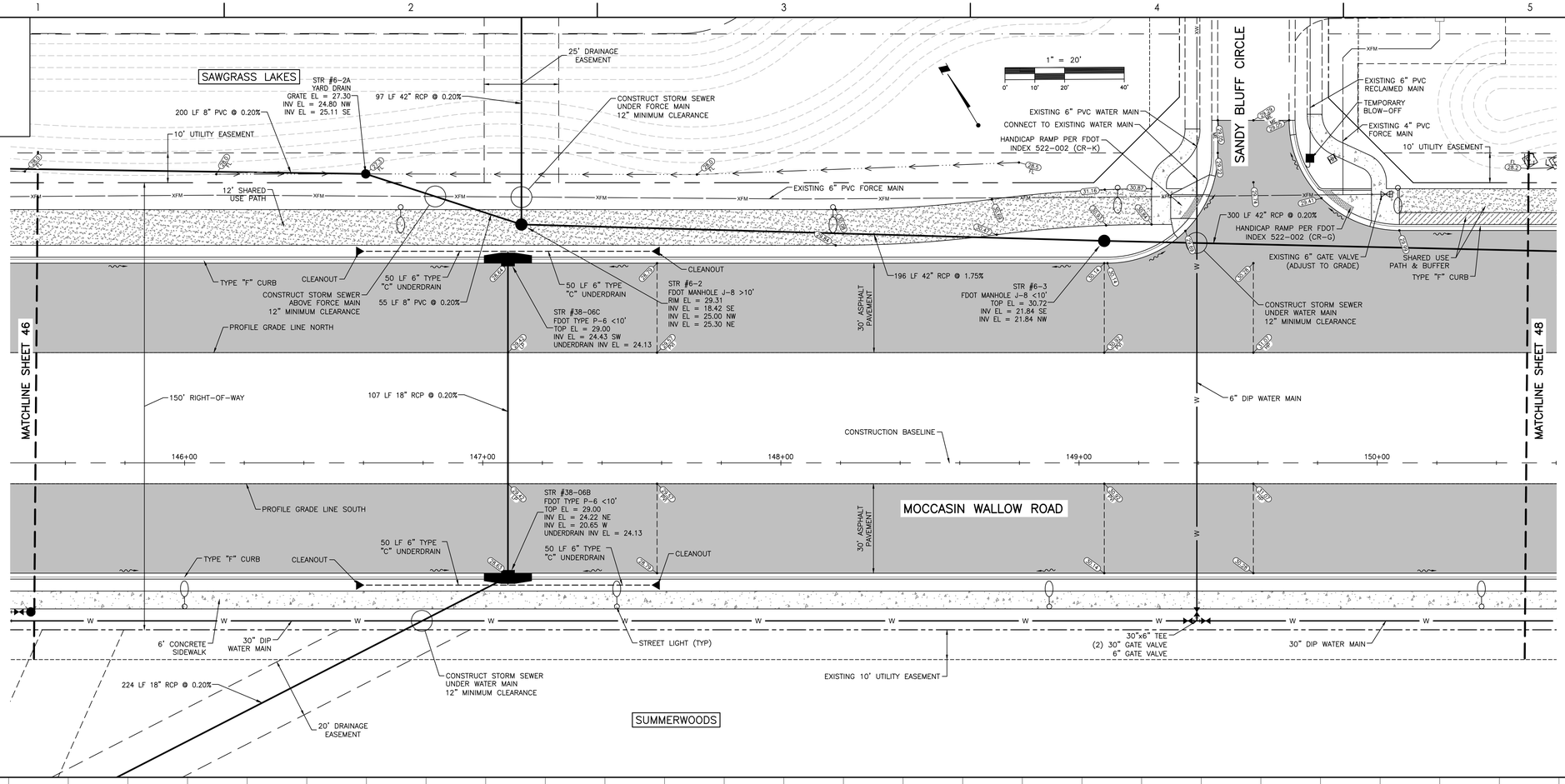
TYPE "F" CURB

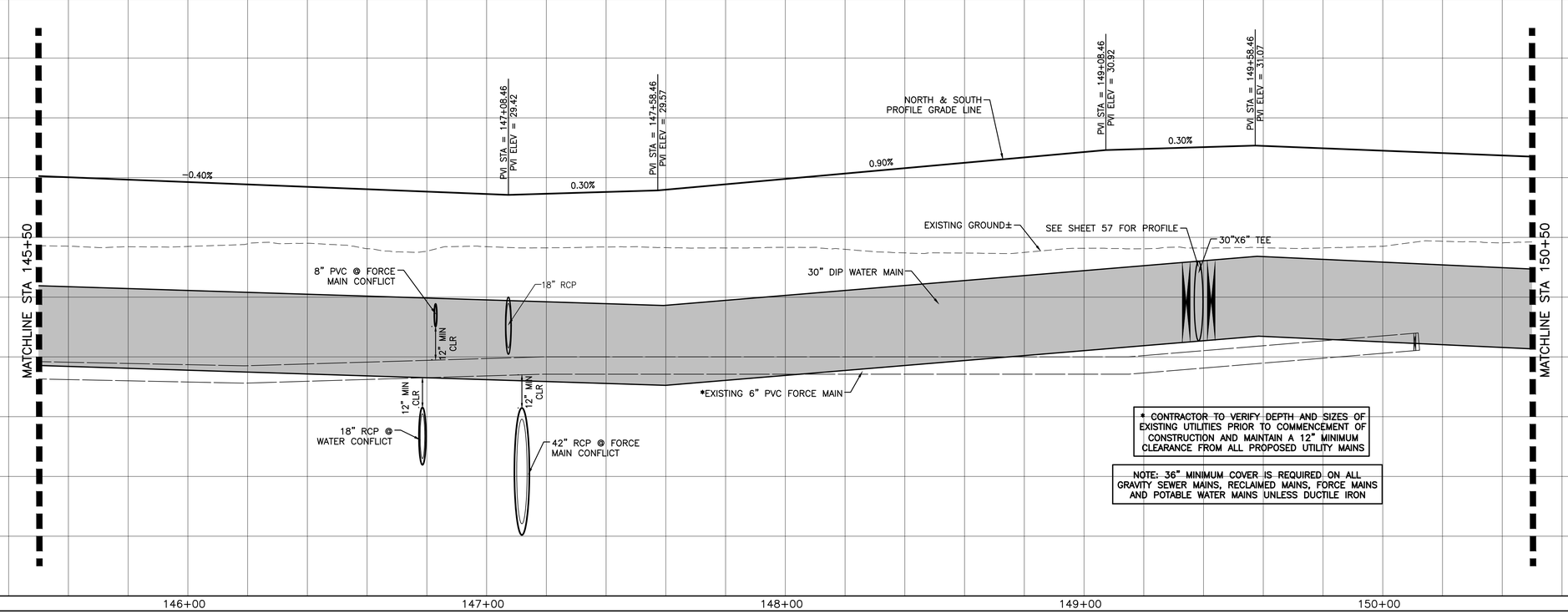
STR #38-05A
FDOT MANHOLE P-8 <10'
RIM EL = 29.48
INV EL = 22.92 NW
INV EL = 23.57 SW

30' ASPHALT PAVEMENT

TYPE "F" CURB

W W W





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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-2025T

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 47 of 126

Drawing No.
47

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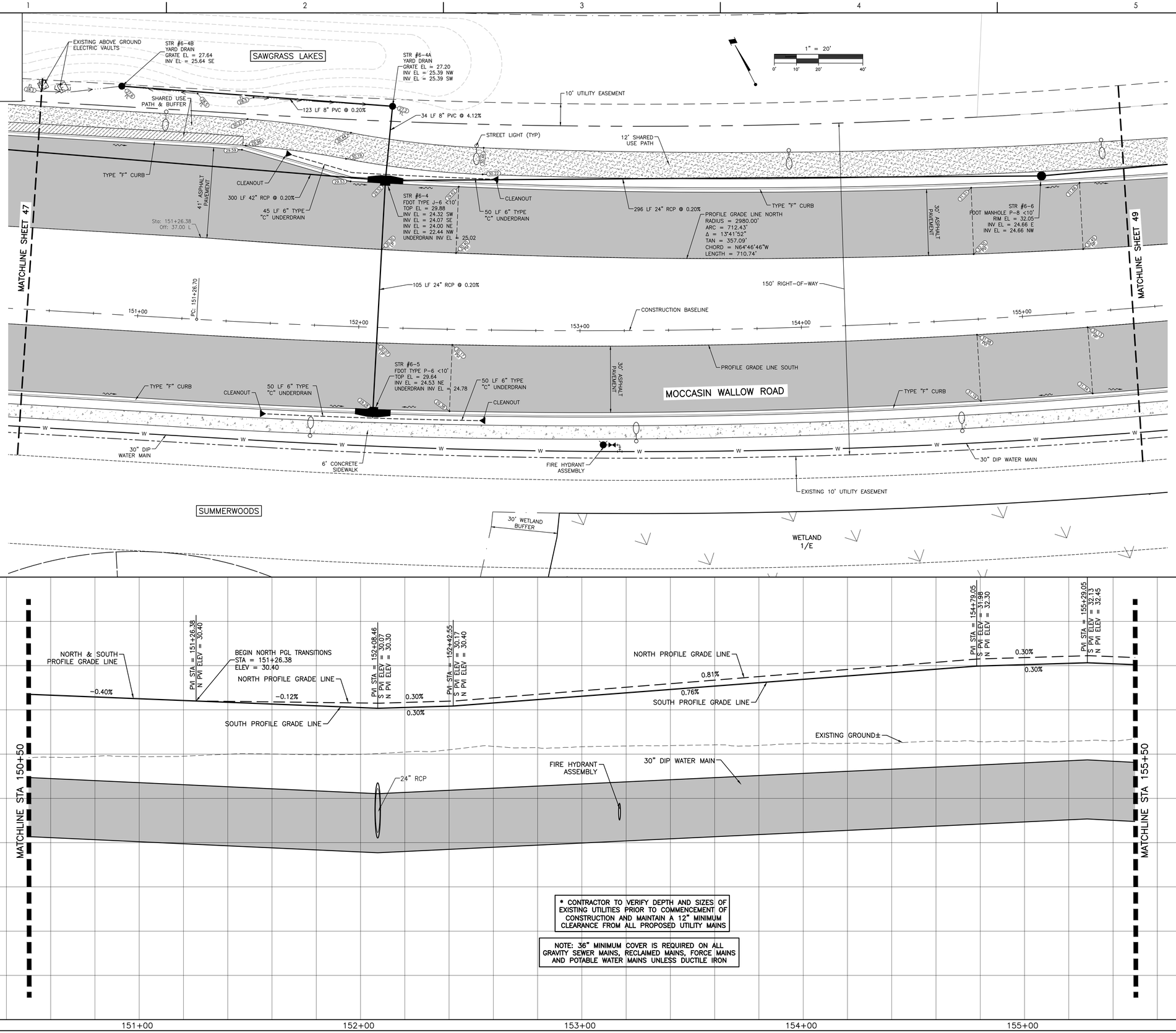

* CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12" MINIMUM CLEARANCE FROM ALL PROPOSED UTILITY MAINS

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

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20251

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 48 of 126

Drawing No.
48

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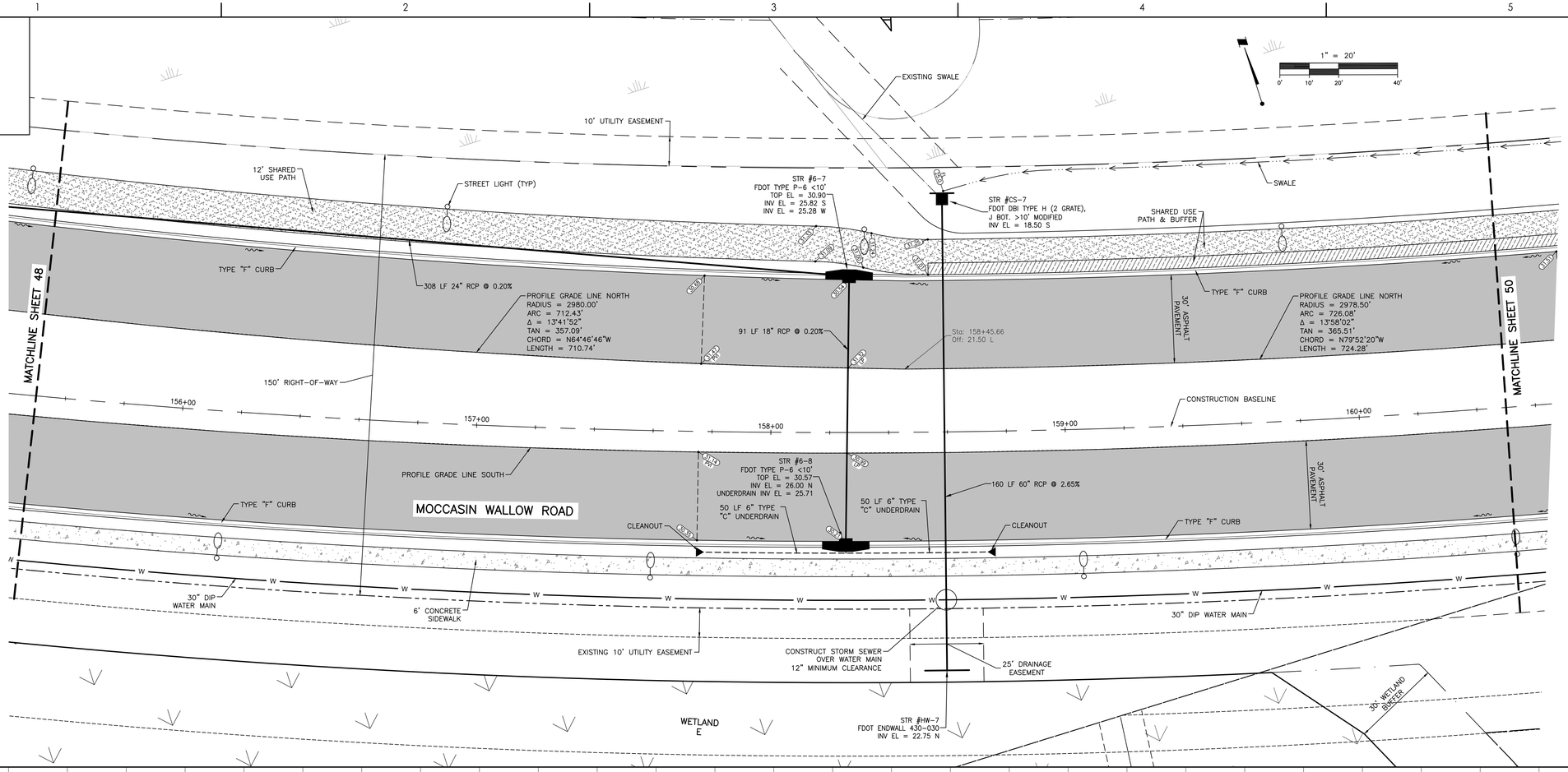

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-20251
Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 49 of 126
Drawing No.
49

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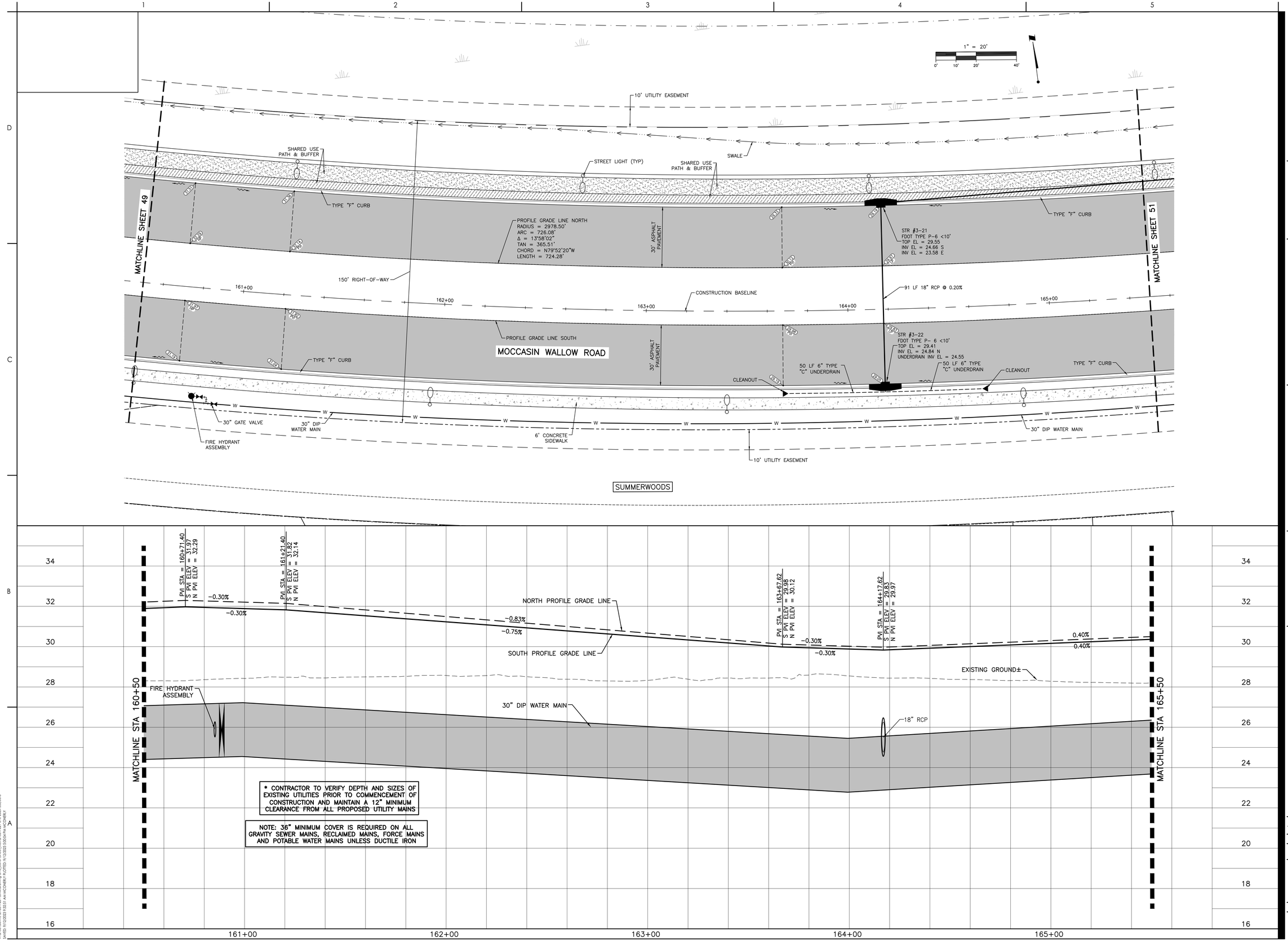

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MOCCASIN WALLOW ROAD SEGMENT 2

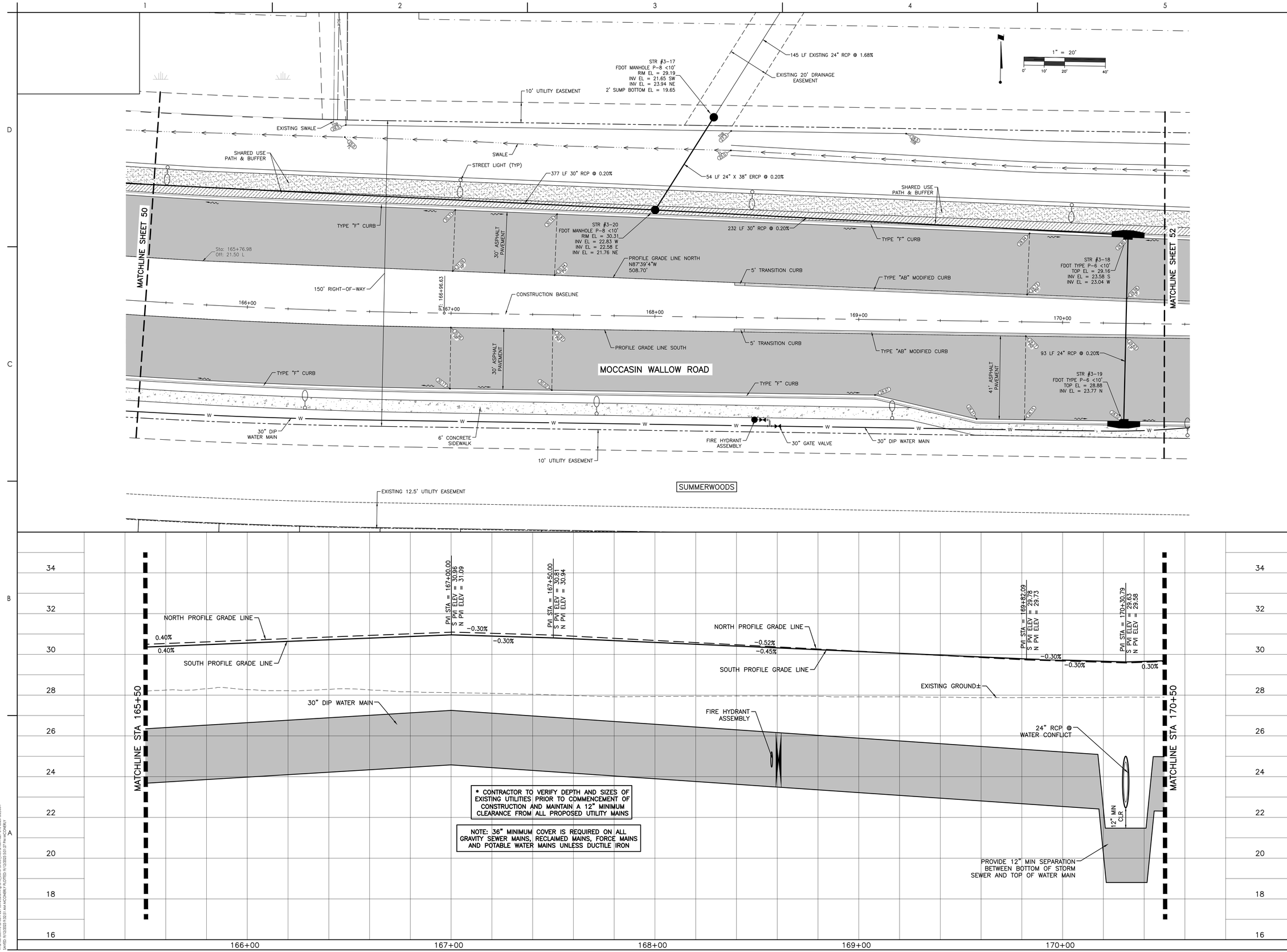
Project No.: 215617221
File Name: 215617221-01C-202ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	YYYY.MM.DD
			02/2022

Title
PLAN AND PROFILE

Revision: Sheet: 50 of 126

Drawing No.
50



* 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

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MOCCASIN WALLOW ROAD SEGMENT 2

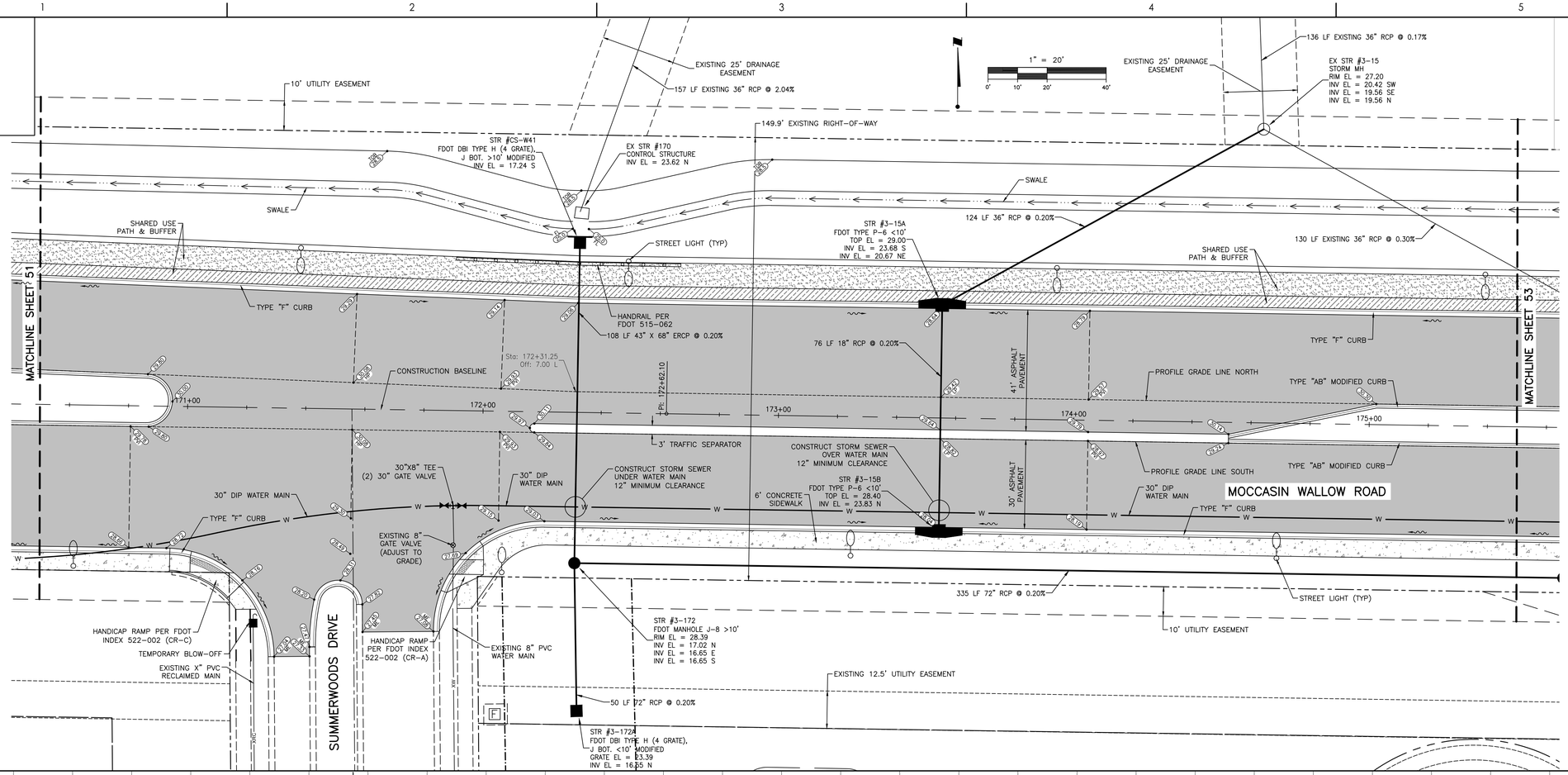
Project No.: 215617221
File Name: 215617221-01C-202S1
Scale: HORZ: 1" = 20' VERT: 1" = 2'

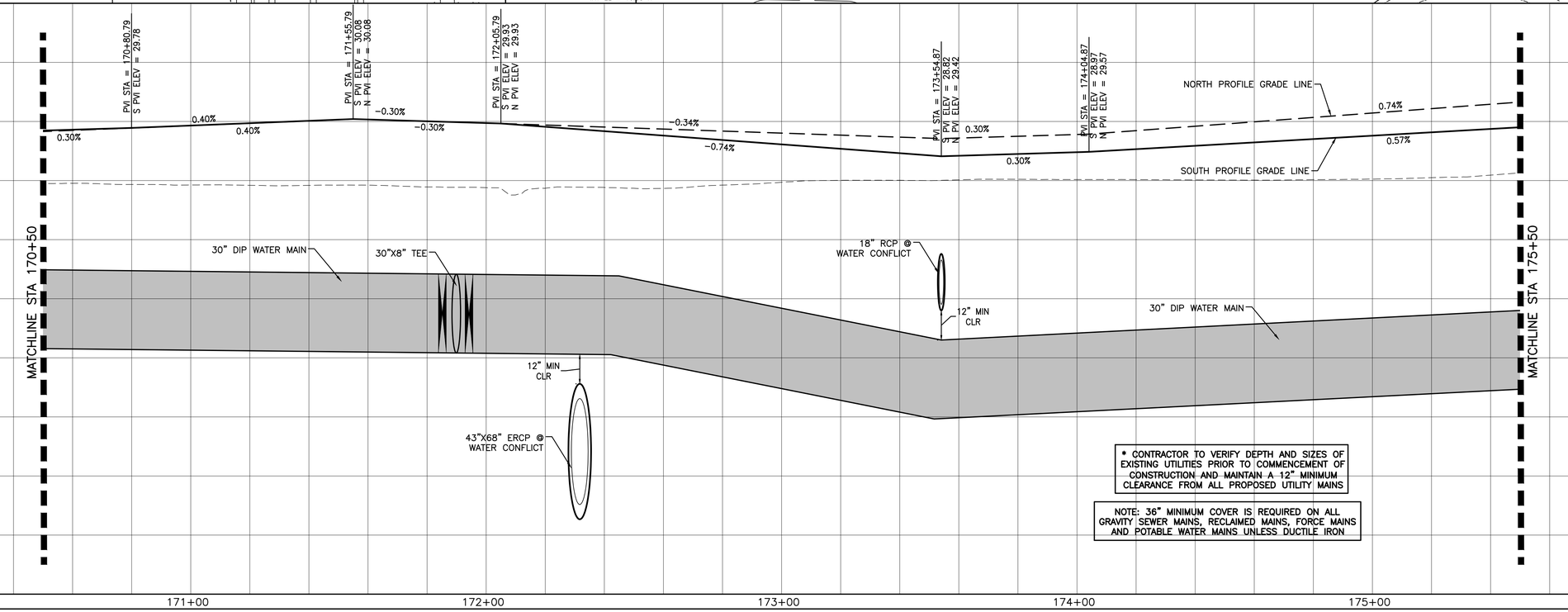
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 51 of 126

Drawing No.
51





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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-202ST

Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 52 of 126

Drawing No.
52

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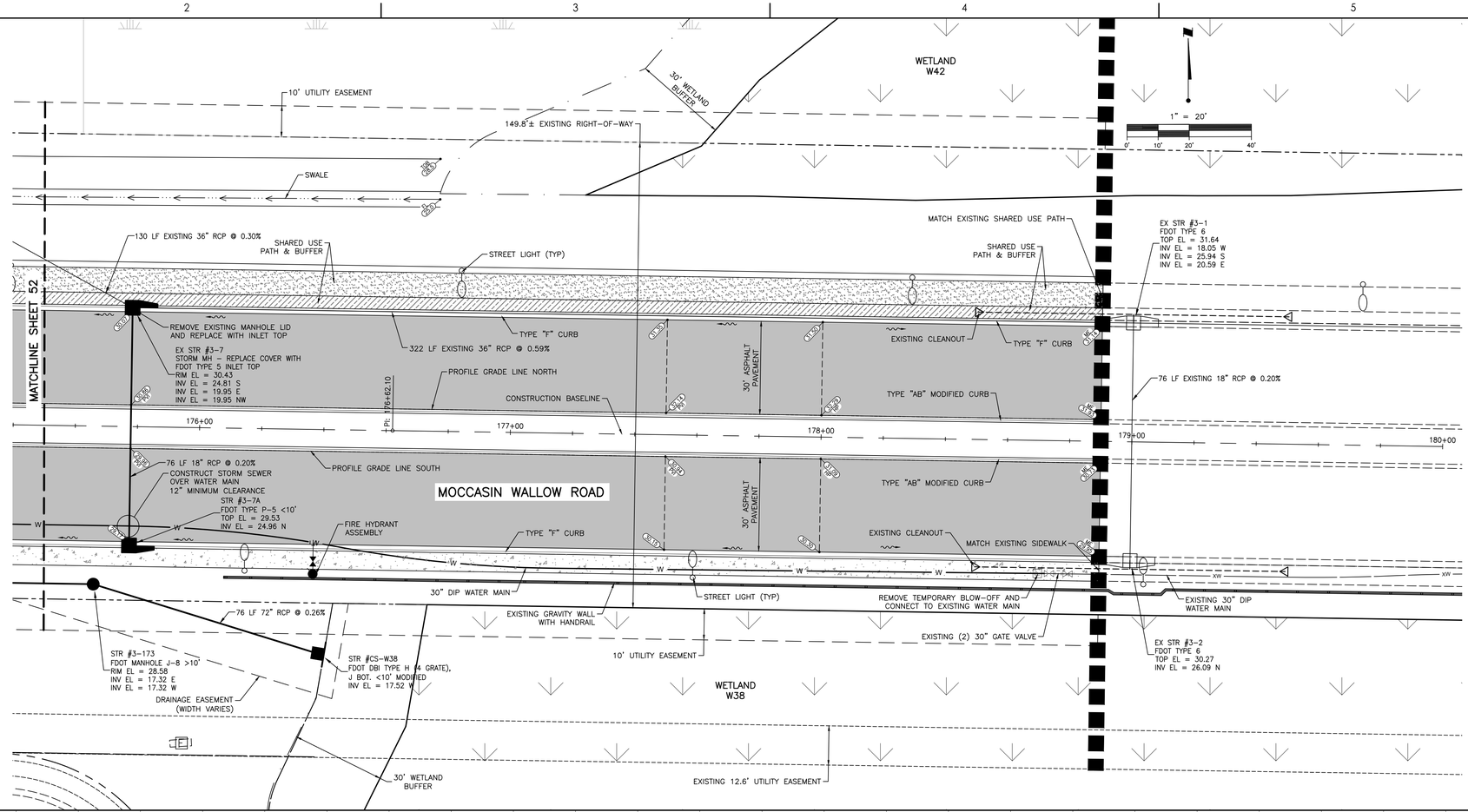
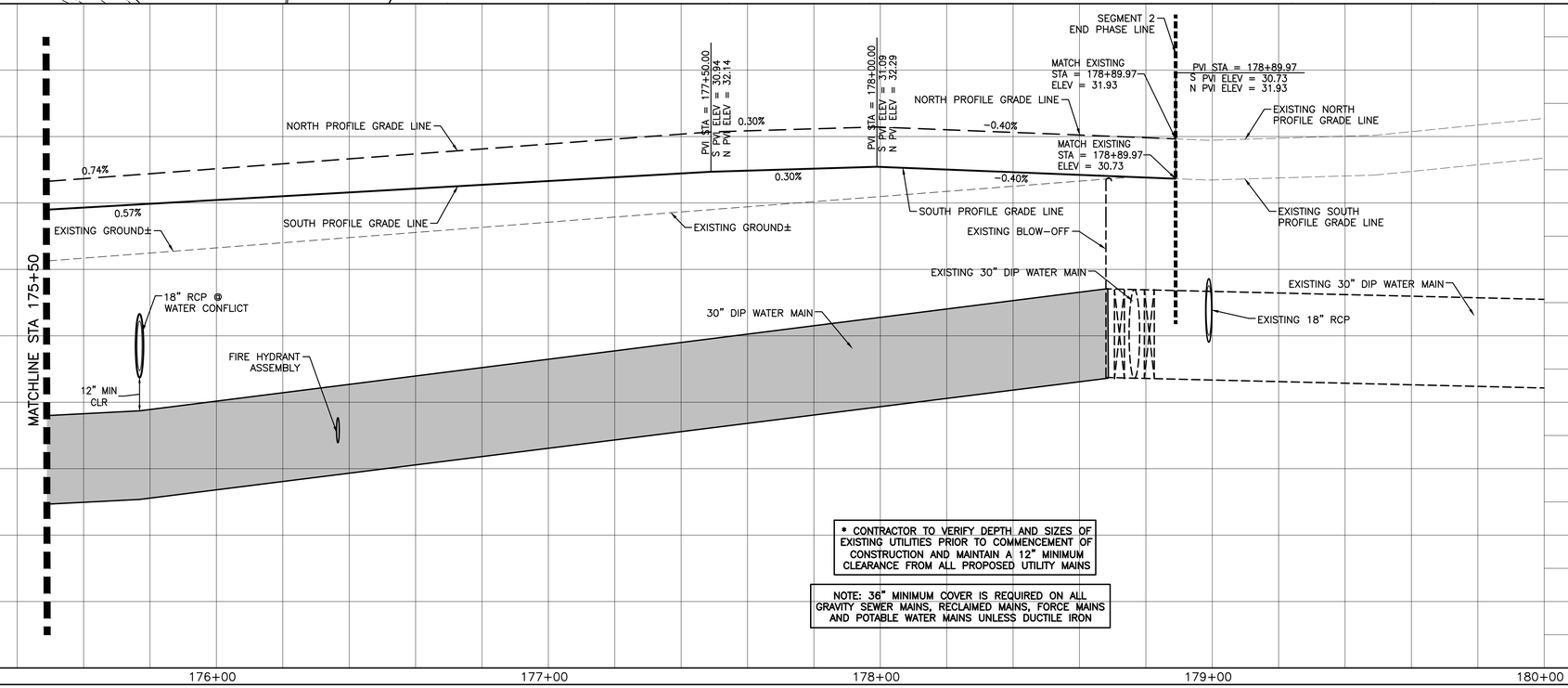
ORIGINAL SHEET - ARCH D





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2				
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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-202ST
Scale: HORZ: 1" = 20' VERT: 1" = 2'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 53 of 126
Drawing No.
53

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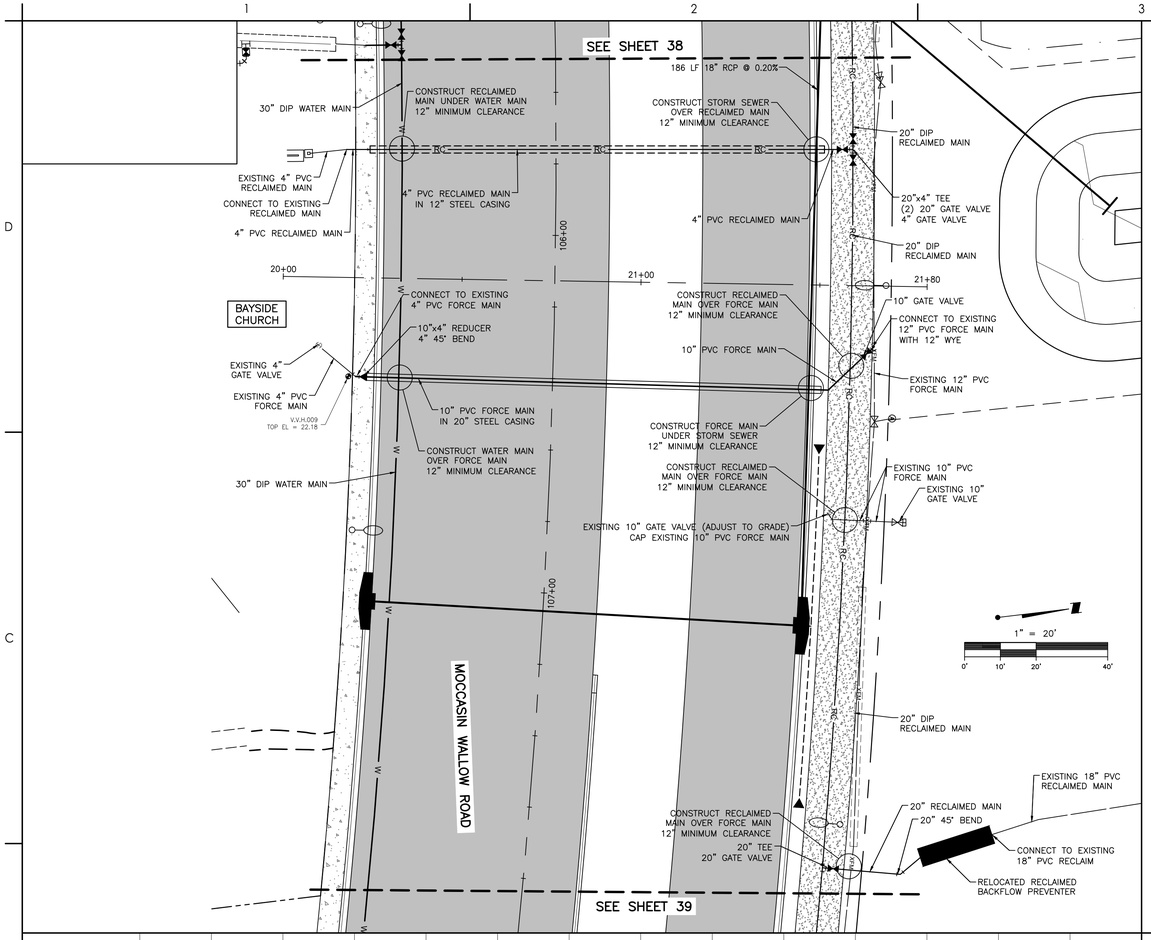

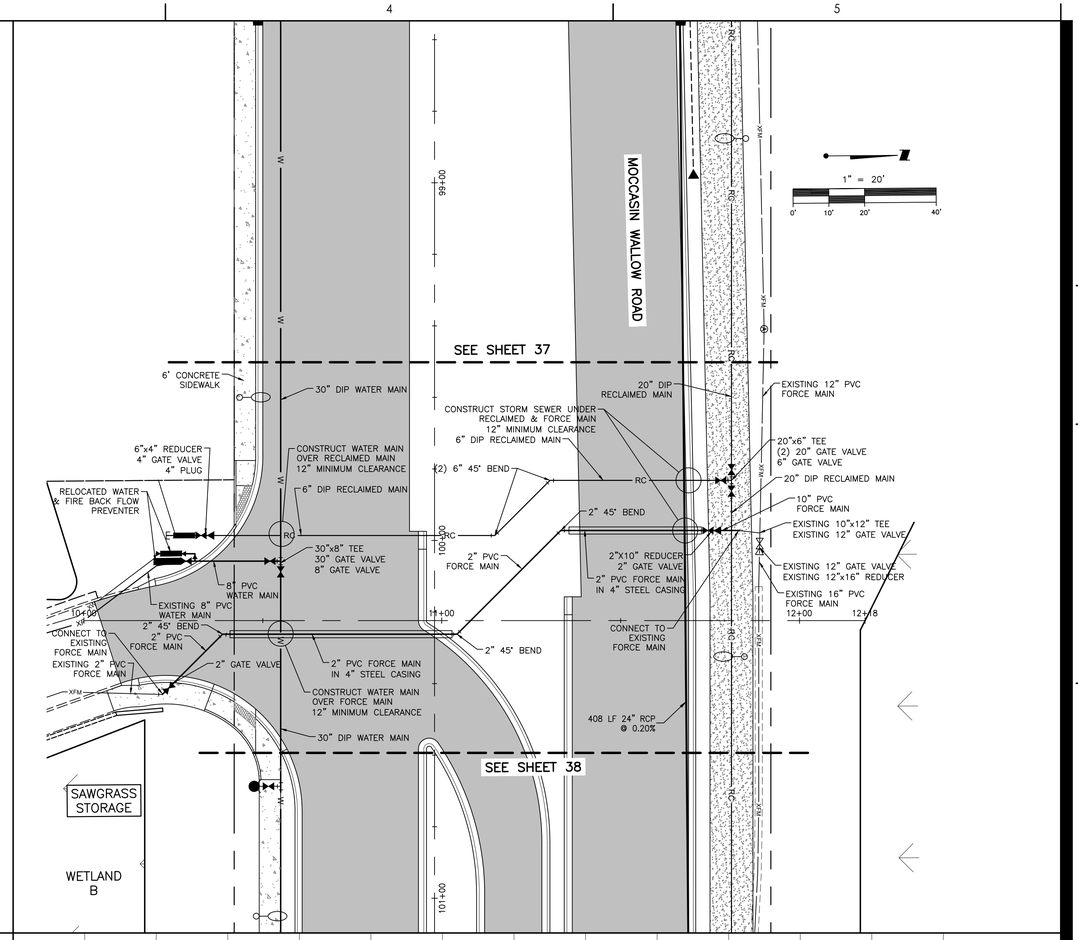

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		By	Appd	YYYY.MM.DD

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-203ST

Scale:

Drawn	Dsgn.	Chkd.	02/2022
			YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 54 of 126
Drawing No.
54

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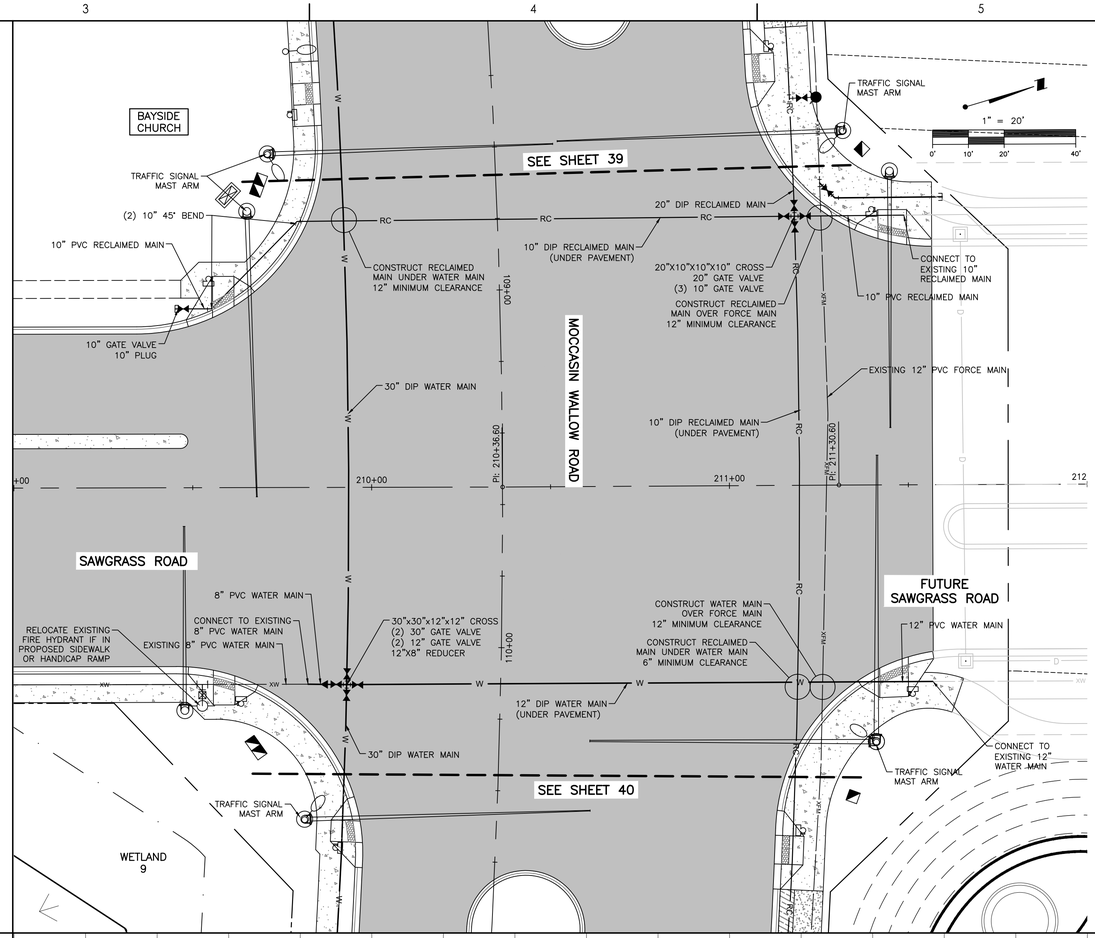

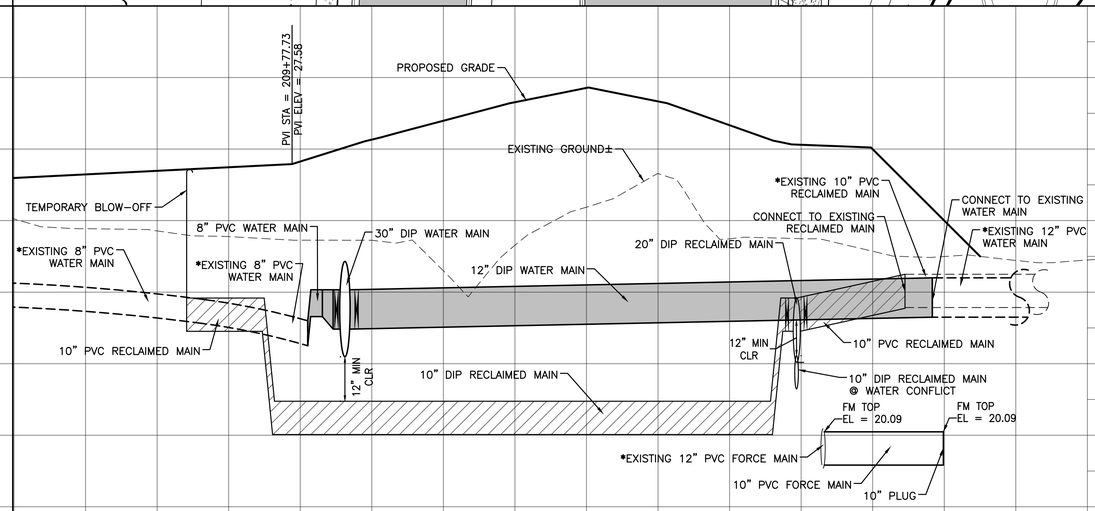

*** CONTRACTOR TO VERIFY DEPTH AND SIZES OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND MAINTAIN A 12" MINIMUM CLEARANCE FROM ALL PROPOSED UTILITY MAINS**

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

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Revision	By	Appd	YYYY.MM.DD

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-203ST

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 55 of 126

Drawing No.
55

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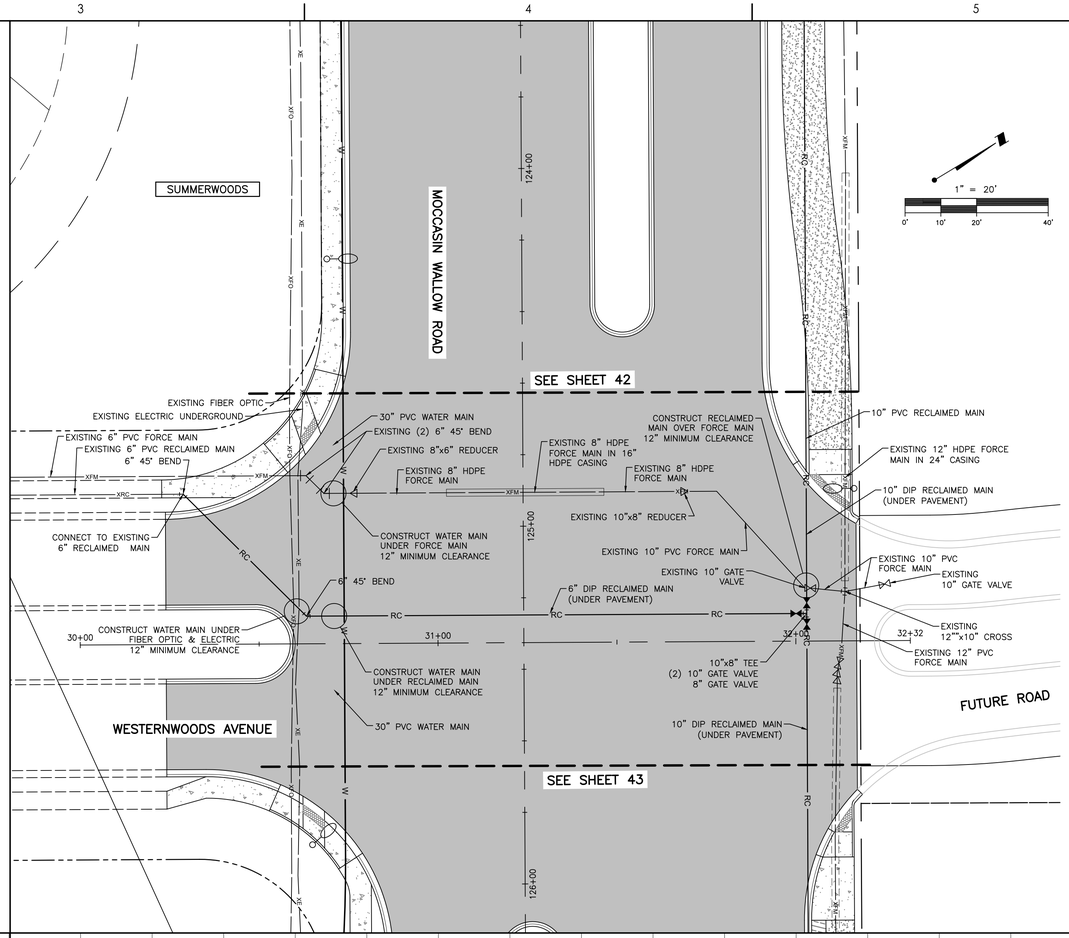

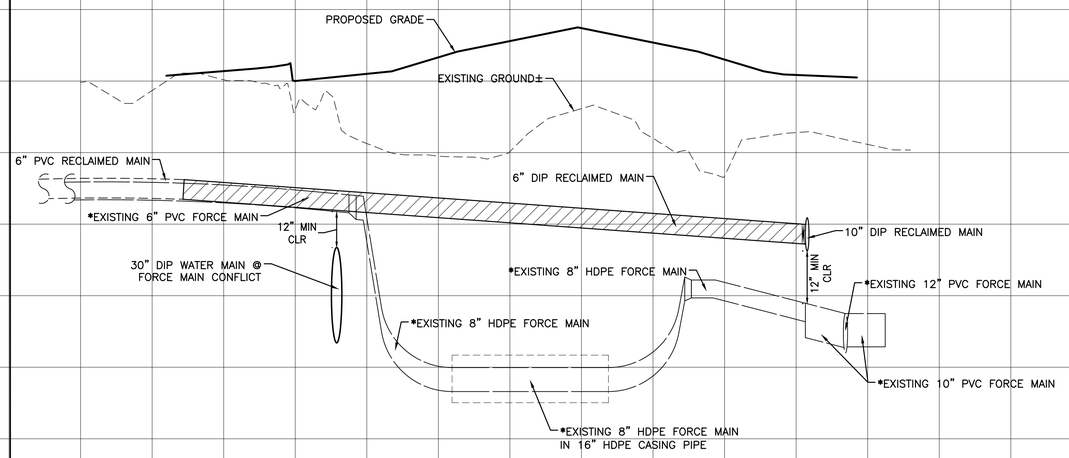

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NOTE: 36" MINIMUM COVER IS REQUIRED ON ALL GRAVITY SEWER MAINS, RECLAIMED MAINS, FORCE MAINS AND POTABLE WATER MAINS UNLESS DUCTILE IRON

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ORIGINAL SHEET - ARCH D

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-203ST

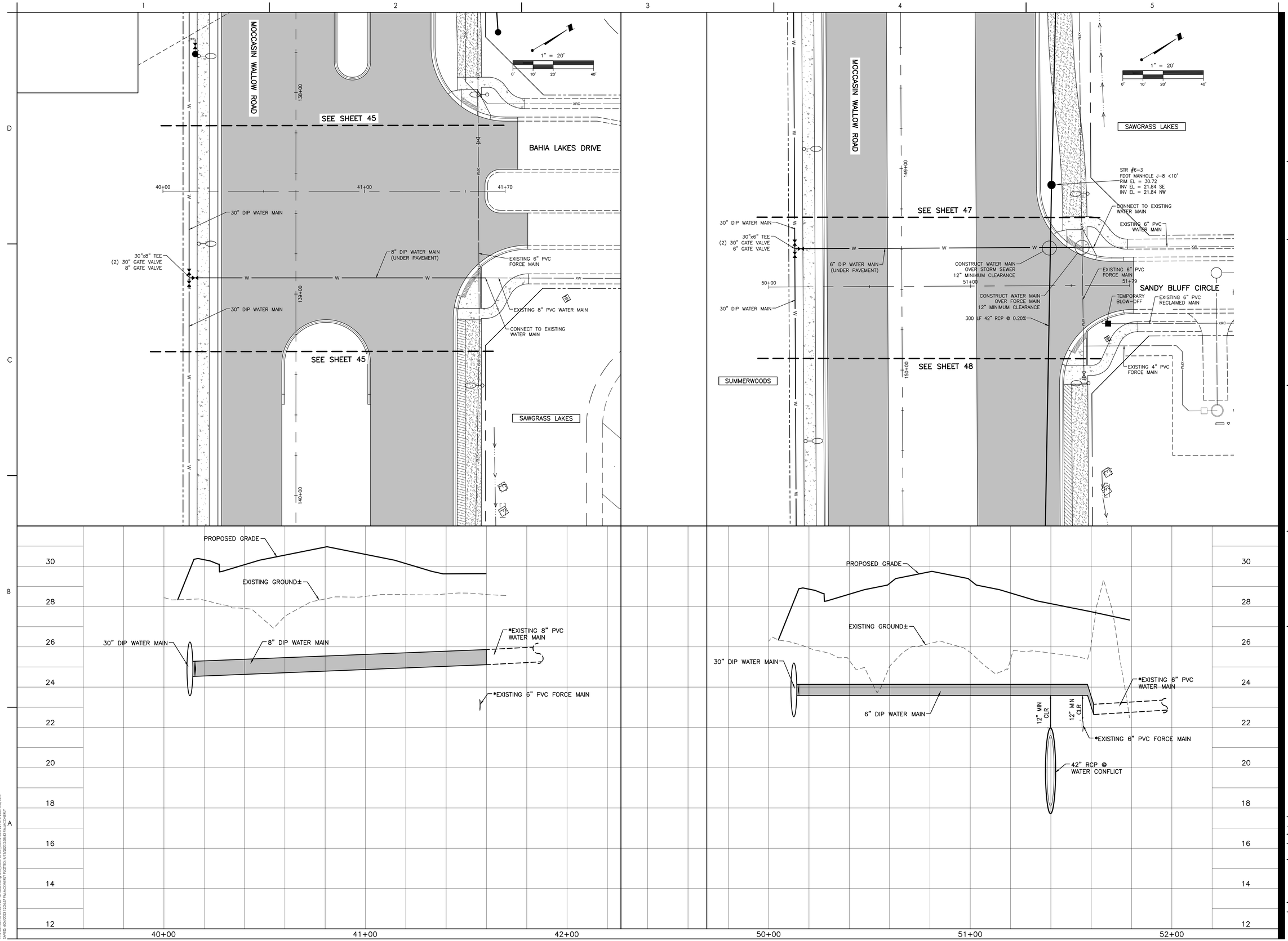
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 56 of 126

Drawing No.
56



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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

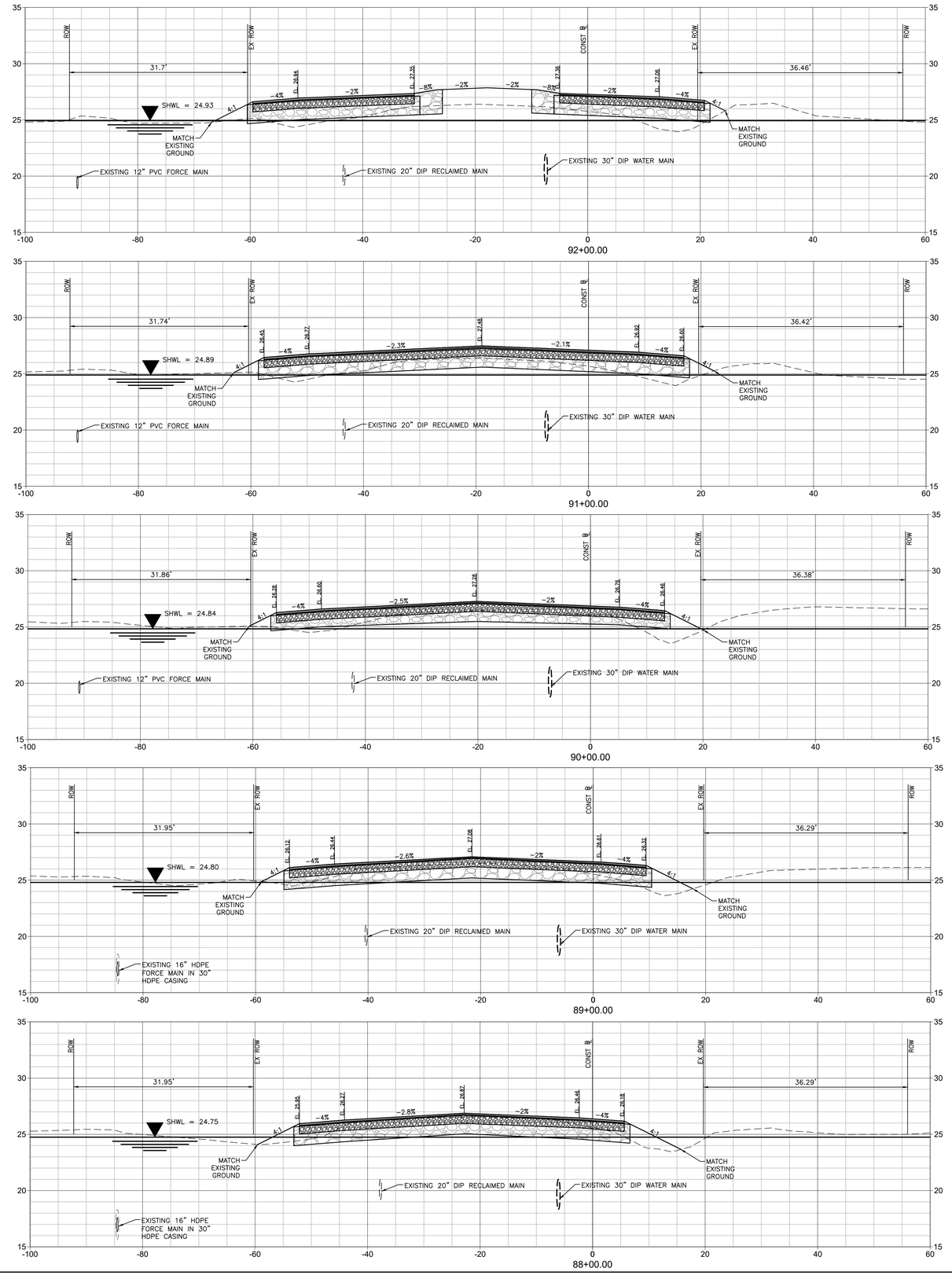
Project No.: 215617221
File Name: 215617221-01C-203ST
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PLAN AND PROFILE

Revision: Sheet: 57 of 126
Drawing No.
57

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-301SC
Scale: HORZ: 1" = 10' VERT: 1" = 5'

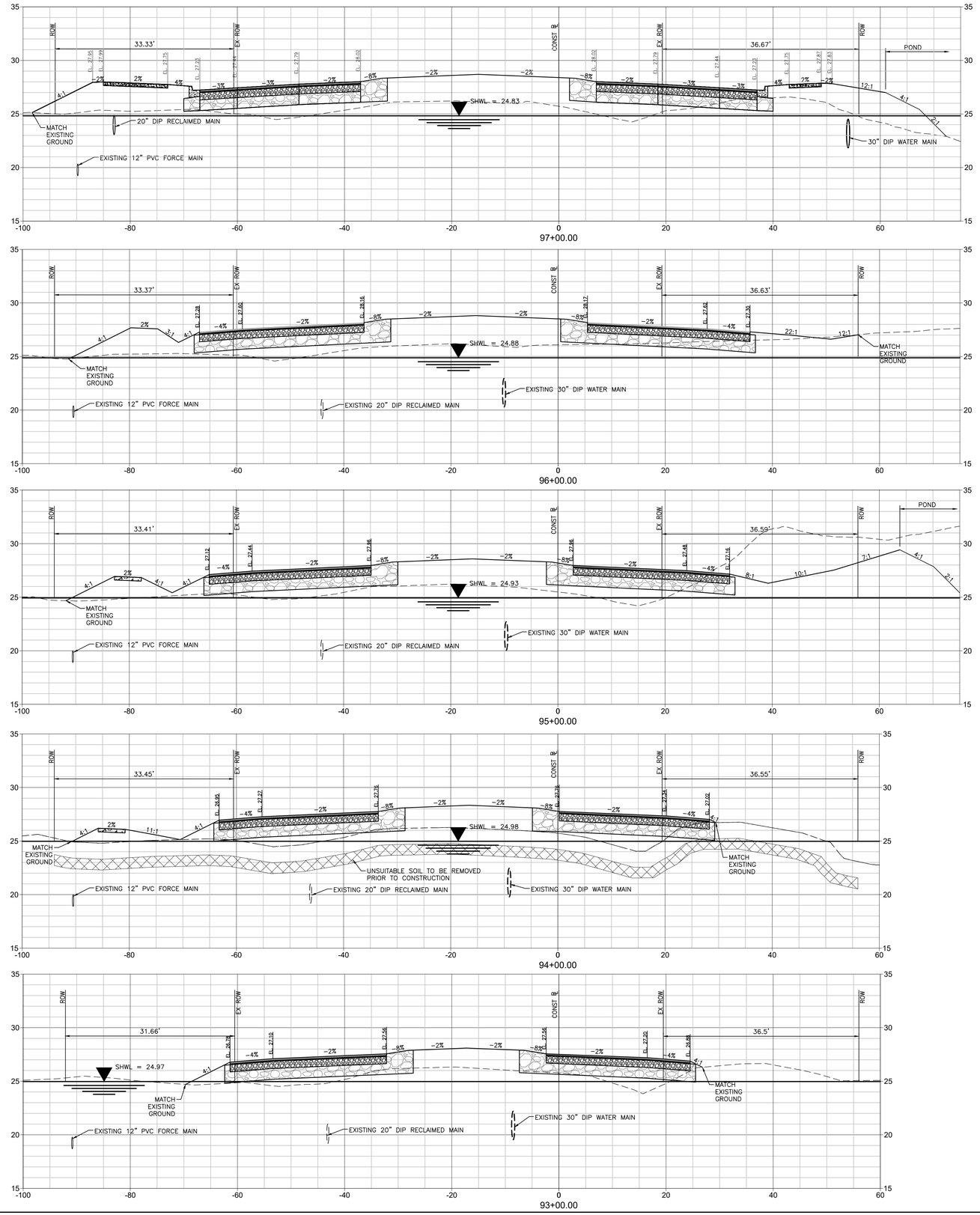
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 58 of 126

Drawing No.
58

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

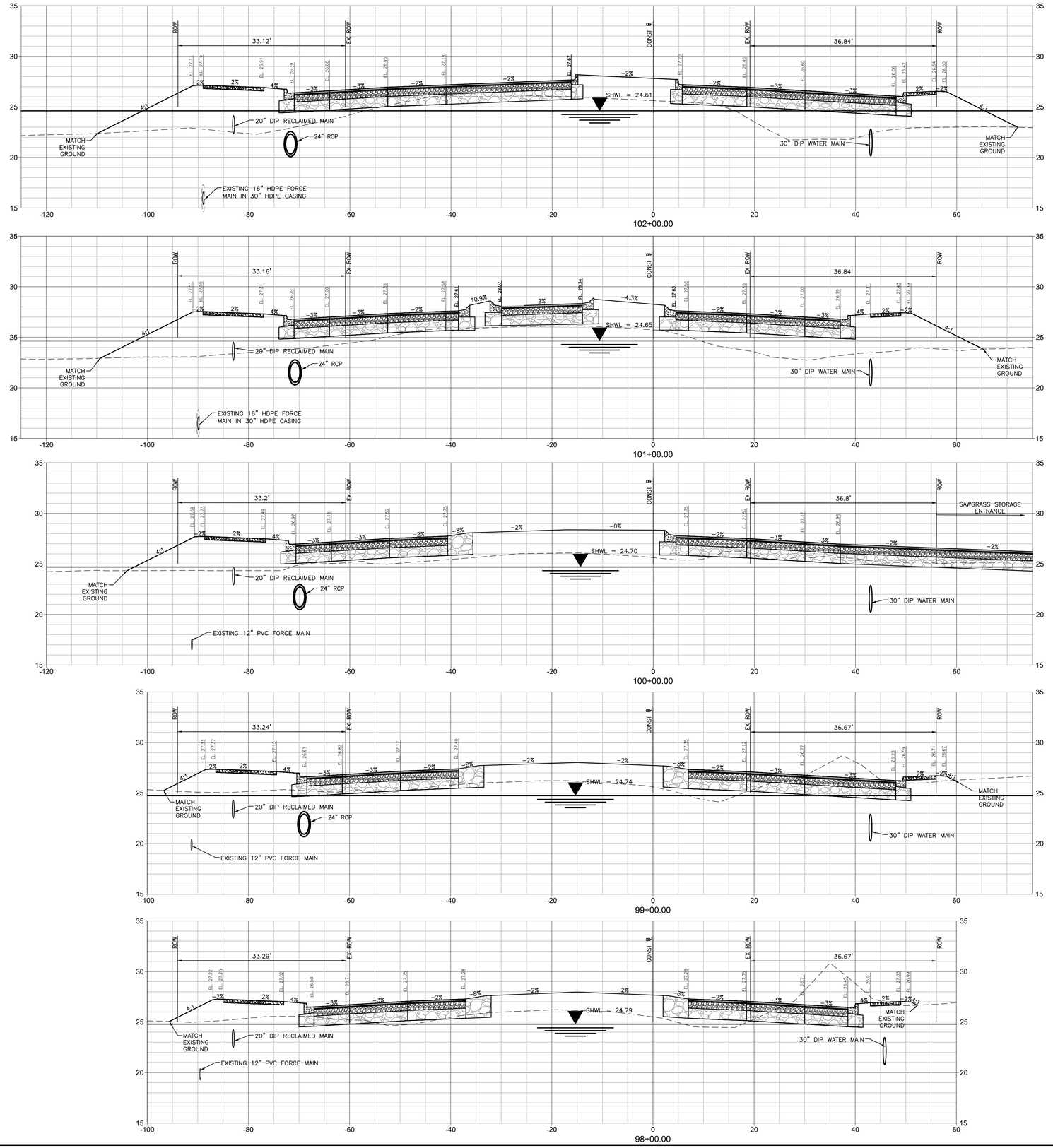
Project No.: 215617221
File Name: 215617221-01C-3015C
Scale: HORZ: 1" = 10' VERT: 1" = 5'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 59 of 126
Drawing No.
59

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-301SC

Scale: HORZ: 1" = 10' VERT: 1" = 5'

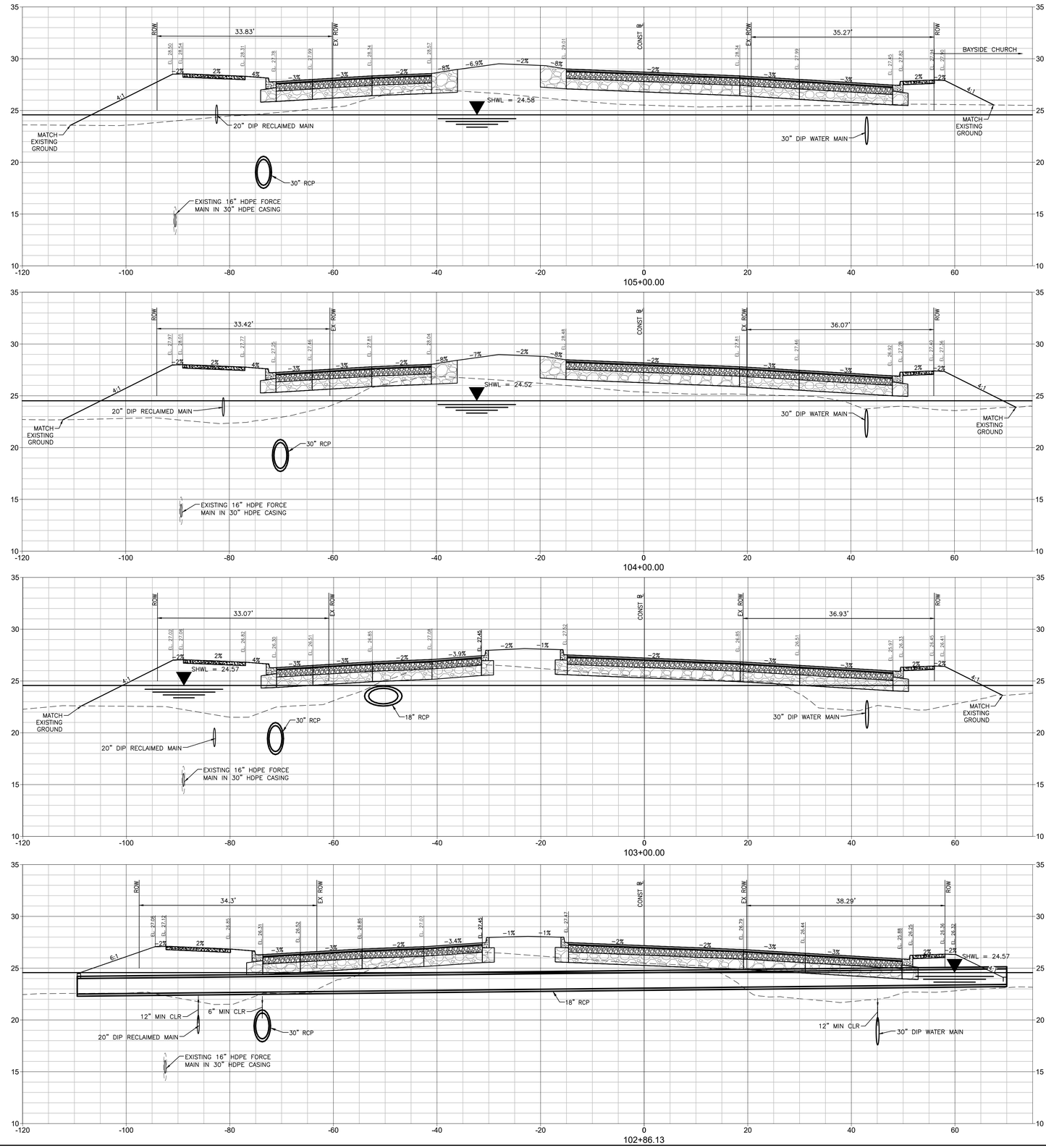
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 60 of 126

Drawing No.
60

ORIGINAL SHEET - ARCH D



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Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-301SC

Scale: HORZ: 1" = 10' VERT: 1" = 5'

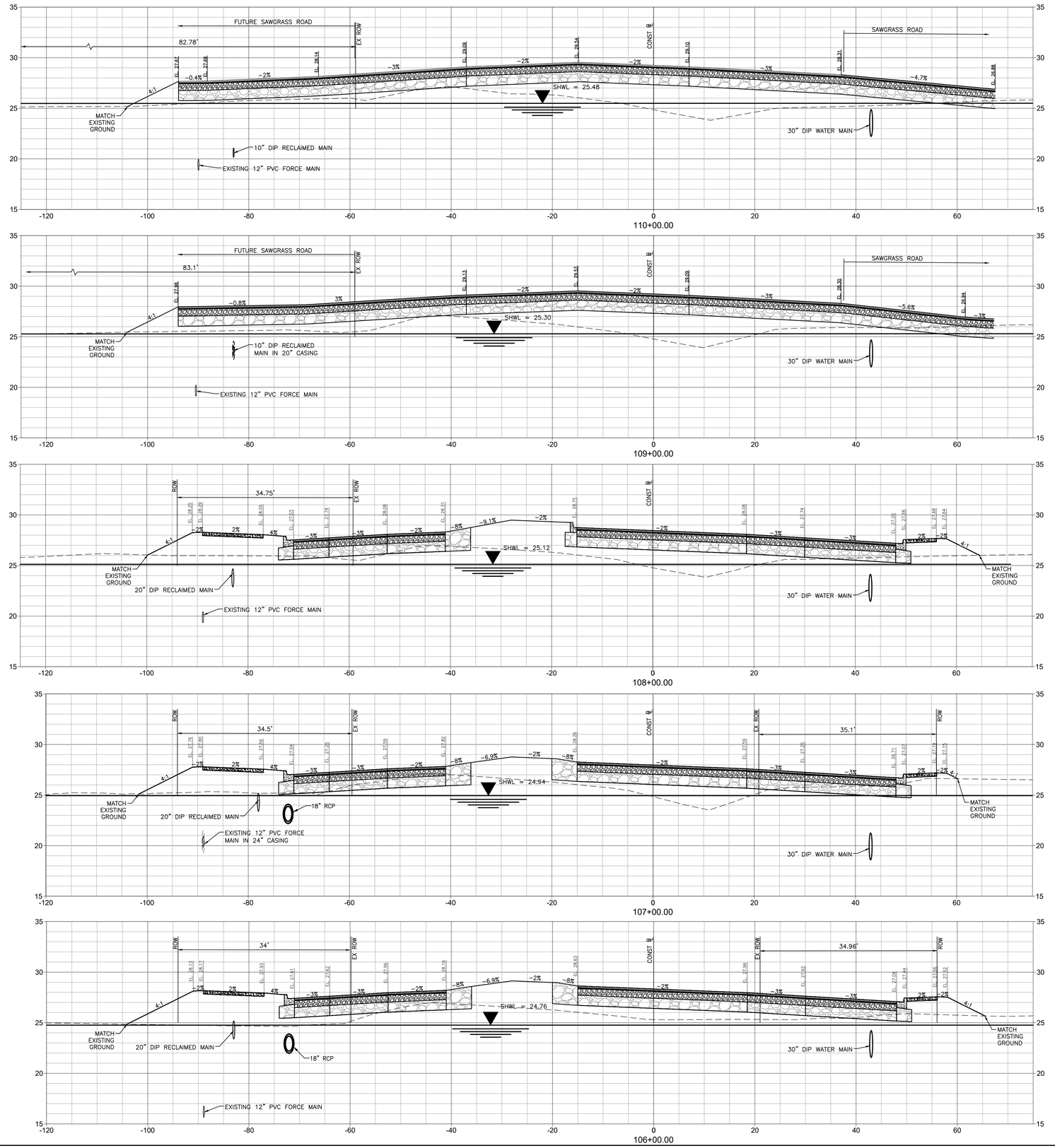
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 61 of 126

Drawing No.
61

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-301SC
Scale: HORZ: 1" = 10' VERT: 1" = 5'

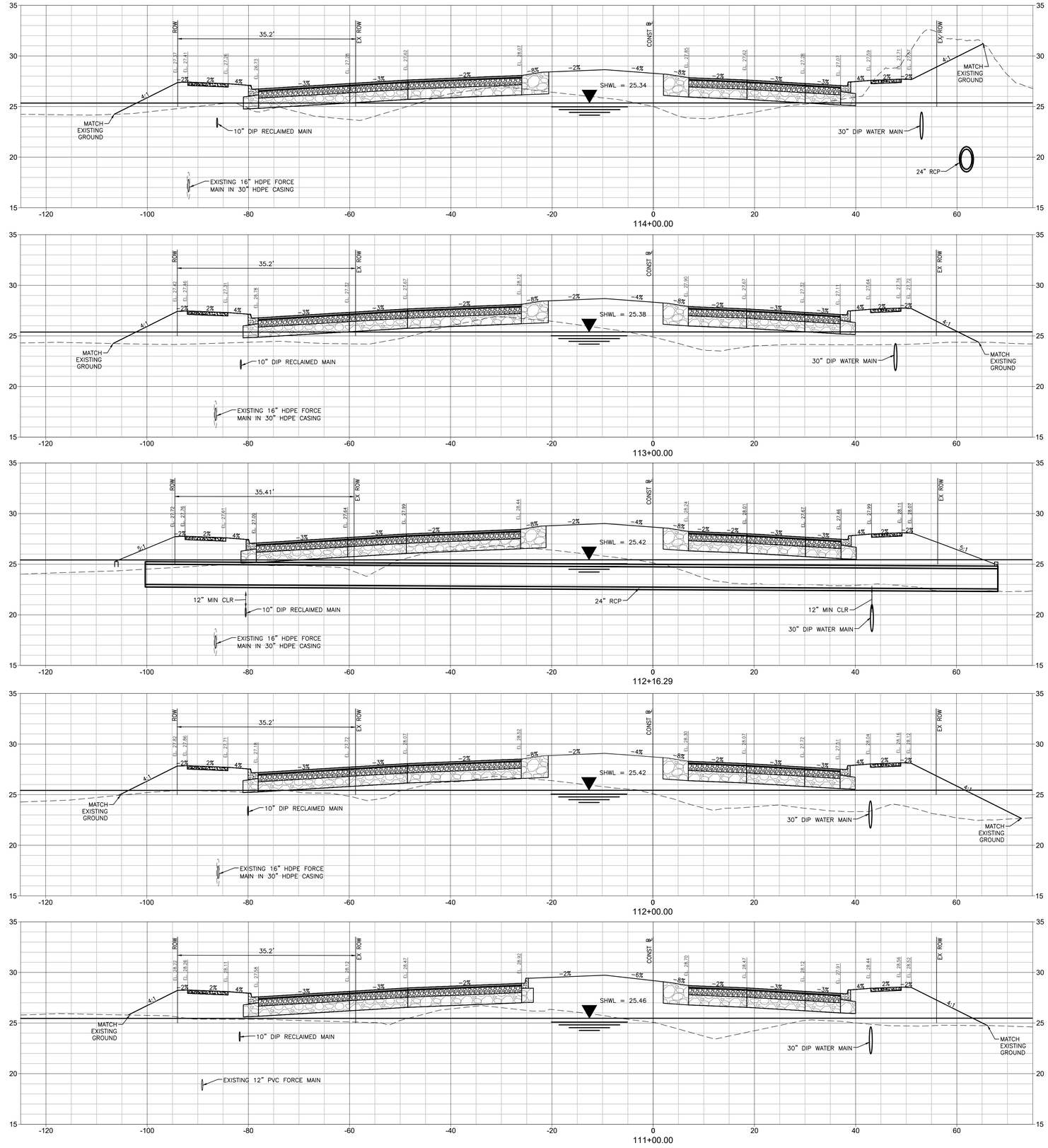
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 62 of 126

Drawing No.
62

ORIGINAL SHEET - ARCH D



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No.	Issued	By	Appd	YYYY.MM.DD

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3015C

Scale: HORZ: 1" = 10' VERT: 1" = 5'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 63 of 126

Drawing No.
63

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SAVED: 4/21/2022 10:26:39 AM ANCONNER, PLOTTED: 4/12/2022 2:42:53 PM ANCONNER

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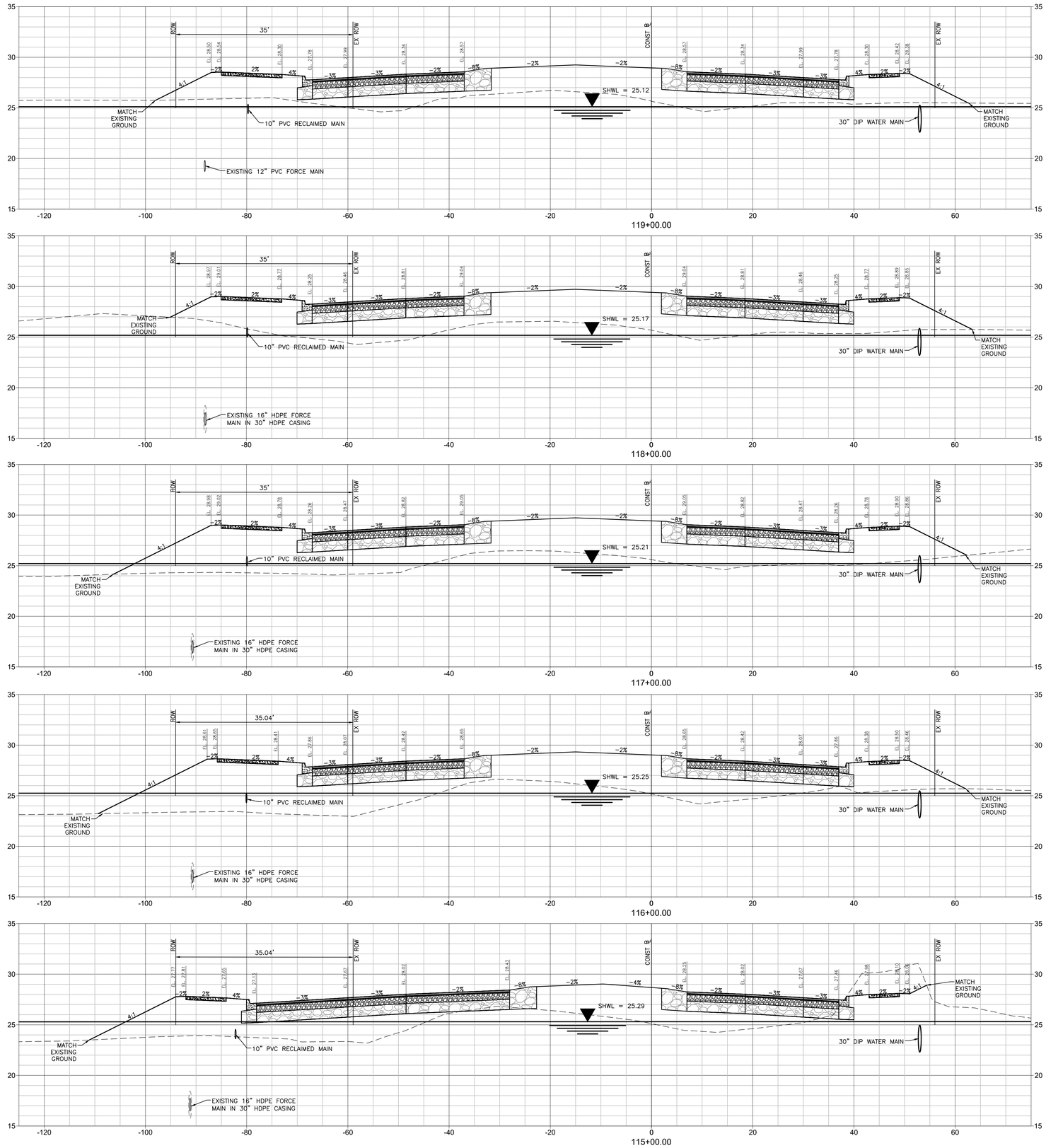

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Issued	By	Appd	YYYY.MM.DD

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-301SC

Scale: HORZ: 1" = 10' VERT: 1" = 5'

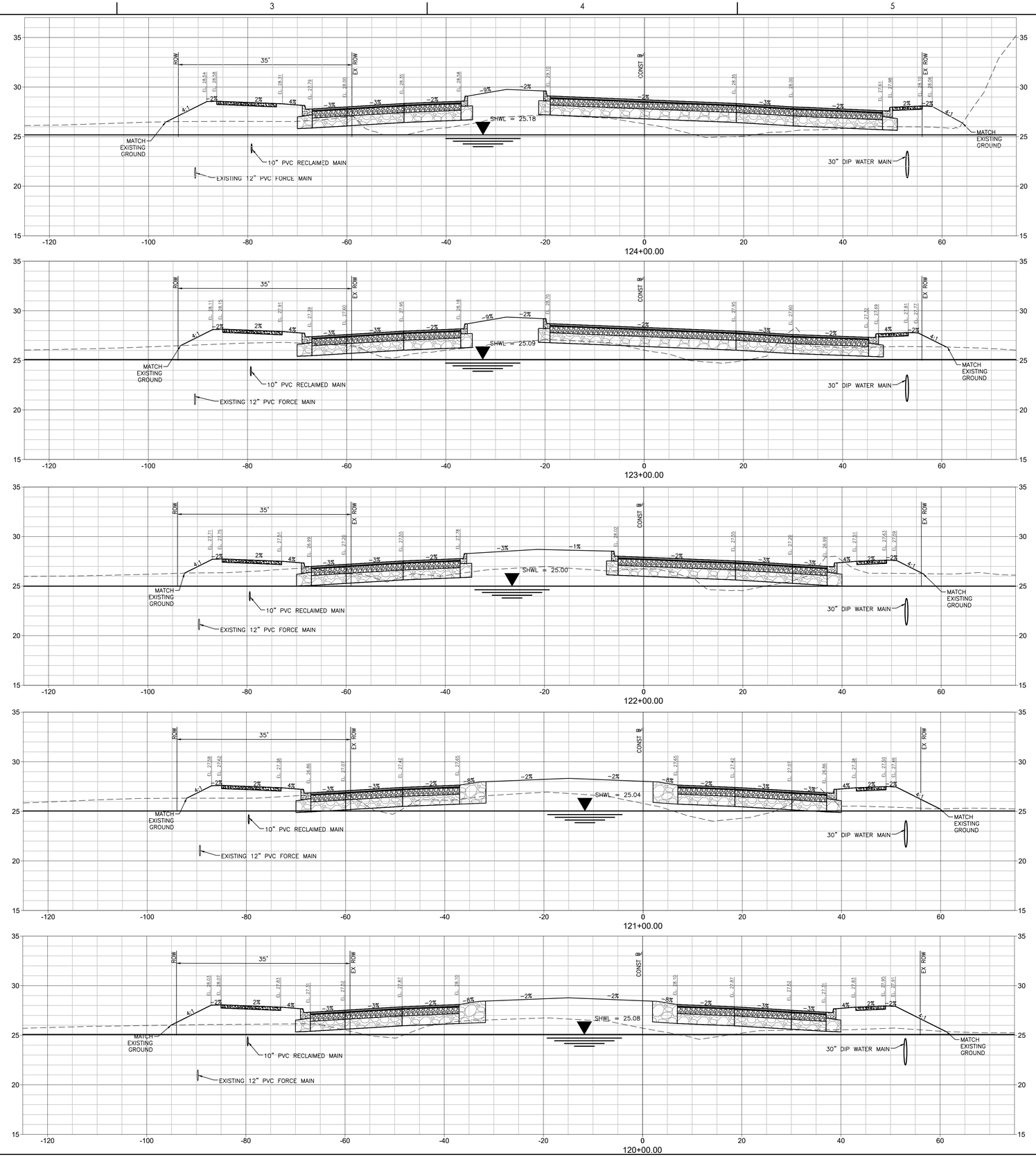
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 64 of 126

Drawing No.
64

ORIGINAL SHEET - ARCH D



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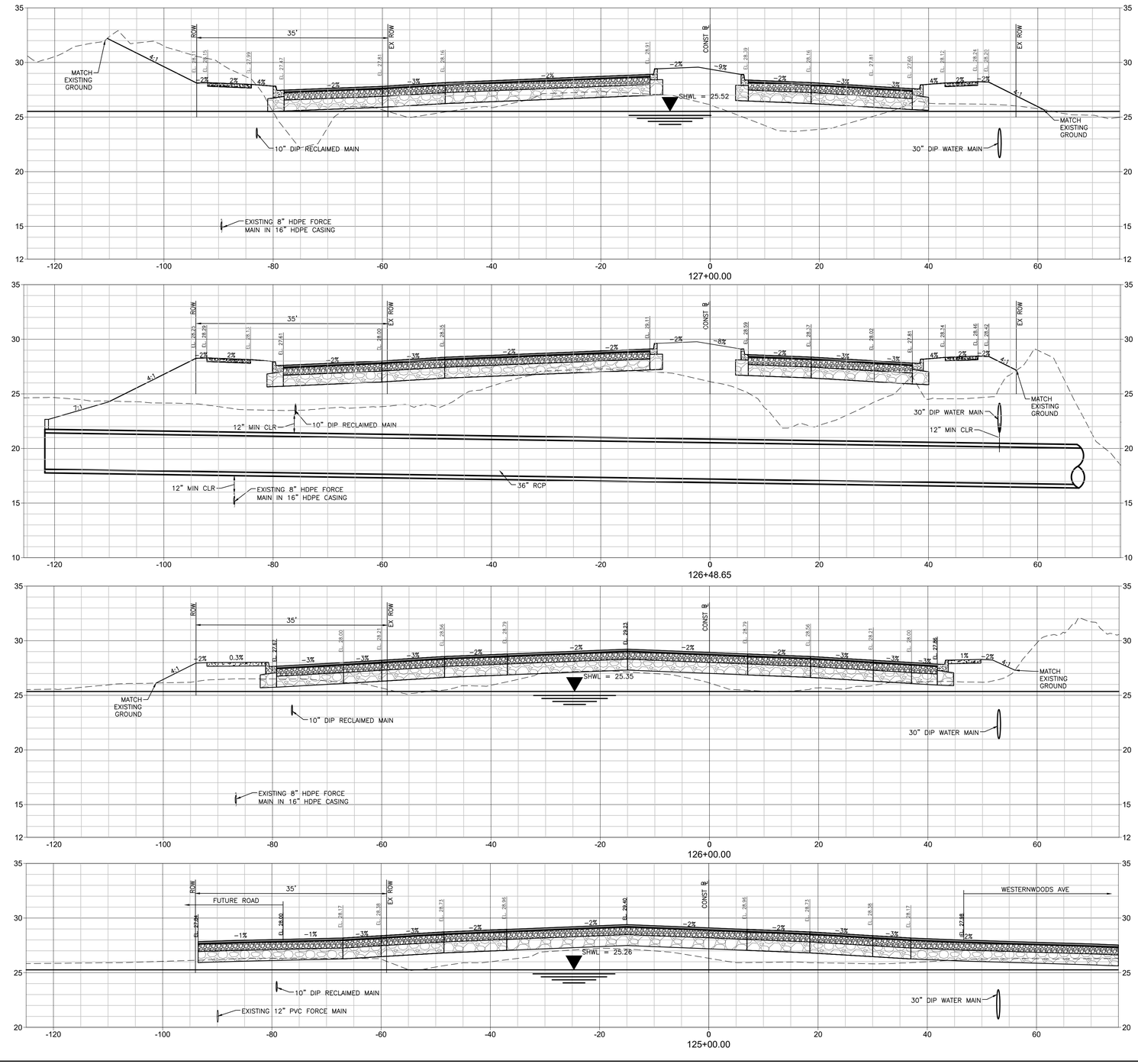
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 65 of 126

Drawing No.
65

ORIGINAL SHEET - ARCH D



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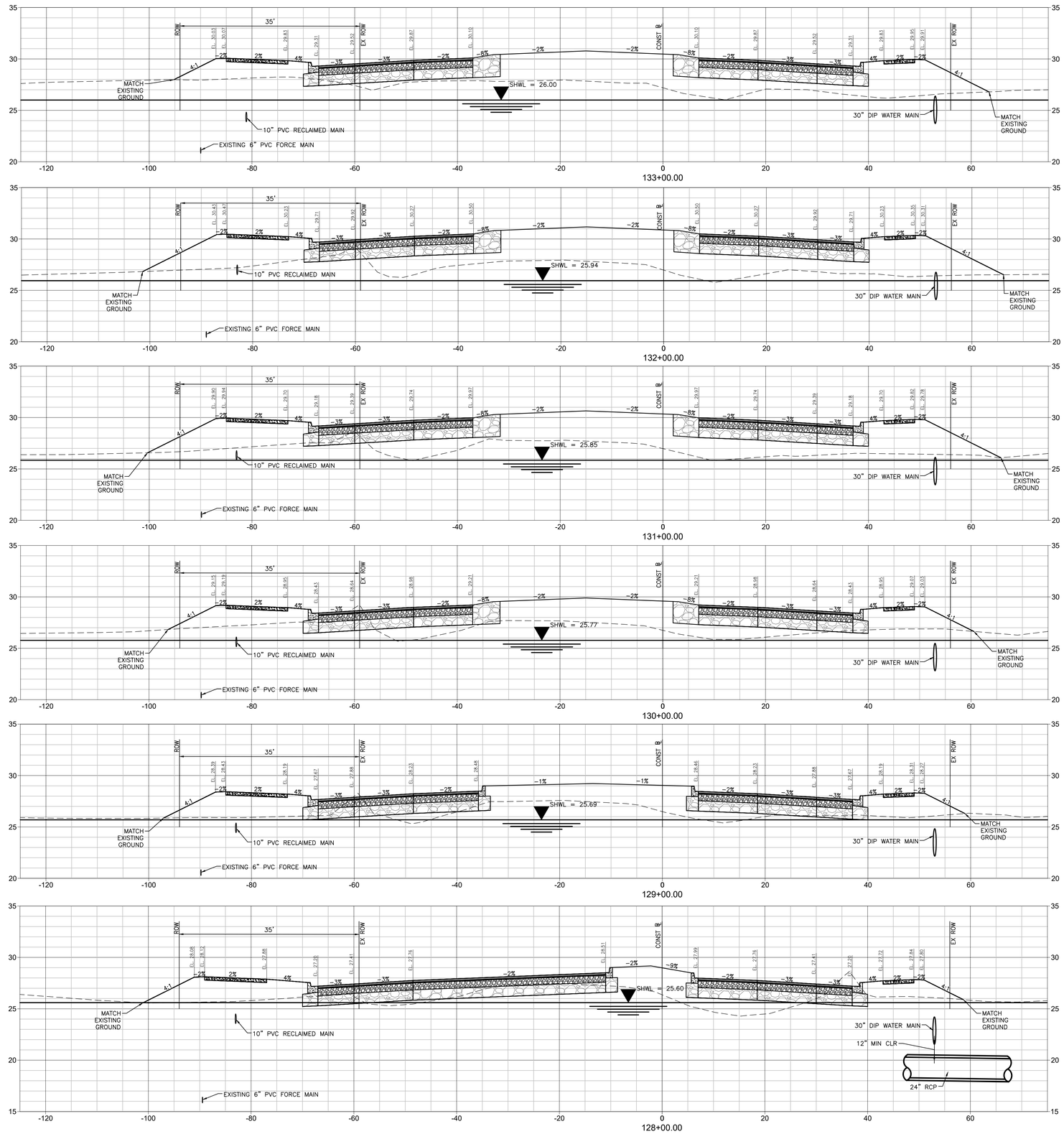
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 66 of 126
Drawing No.
66

ORIGINAL SHEET - ARCH D



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Scale: HORZ: 1" = 10' VERT: 1" = 5'

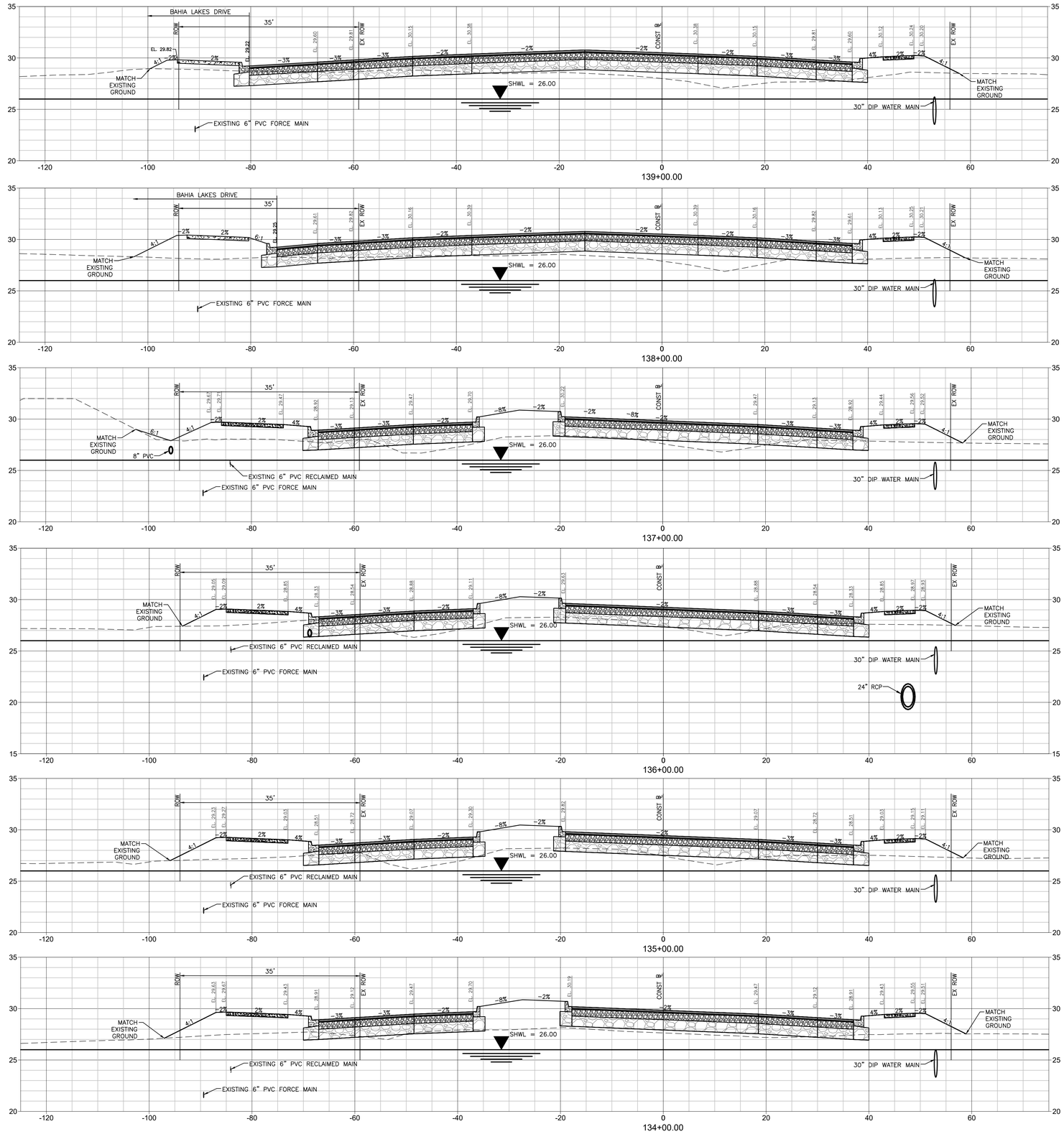
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 67 of 126

Drawing No.
67

ORIGINAL SHEET - ARCH D



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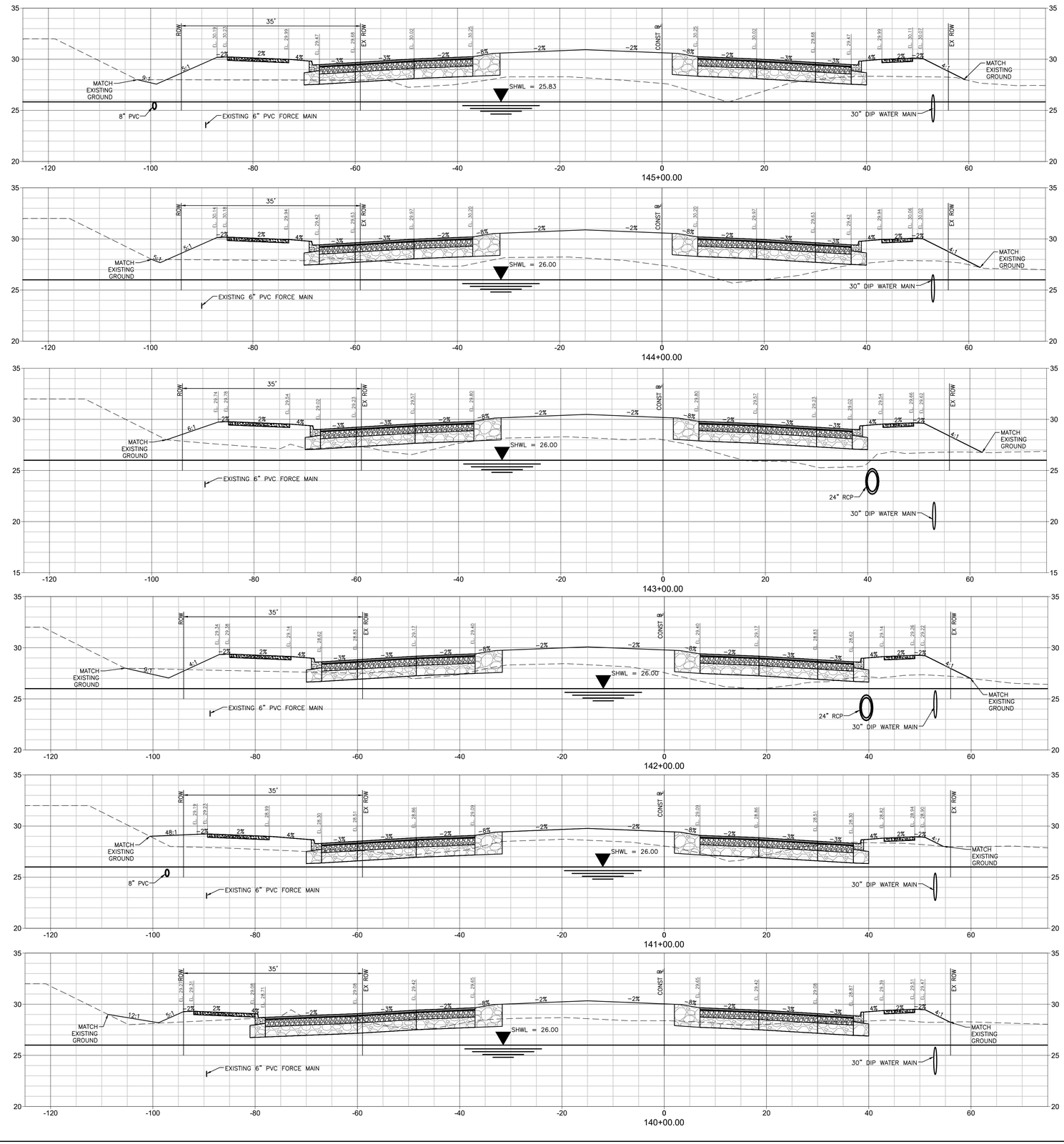
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 68 of 126

Drawing No.
68

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3025C
Scale: HORZ: 1" = 10' VERT: 1" = 5'

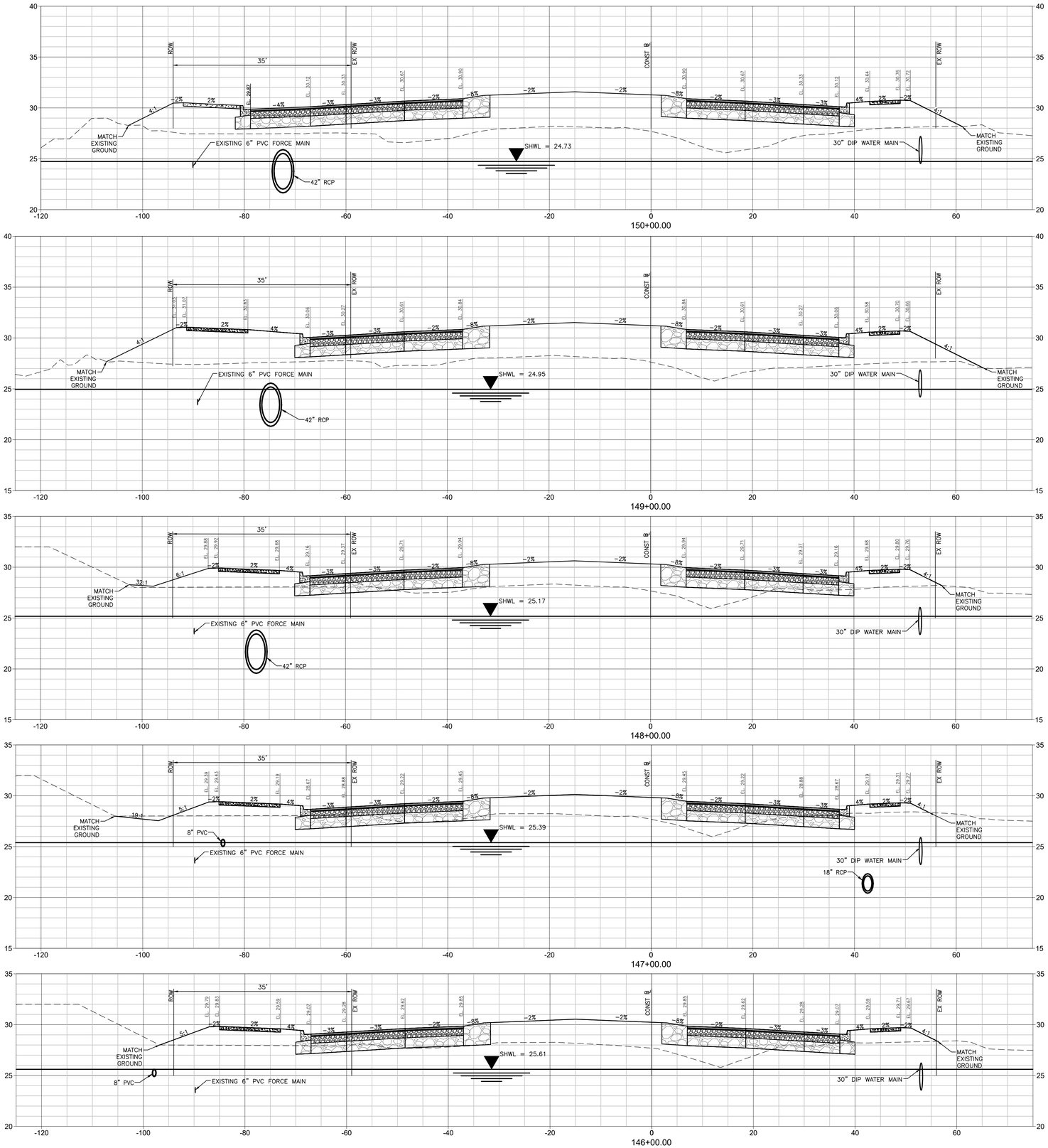
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 69 of 126

Drawing No.
69

ORIGINAL SHEET - ARCH D



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Project No.: 215617221
File Name: 215617221-01C-3025C
Scale: HORZ: 1" = 10' VERT: 1" = 5'

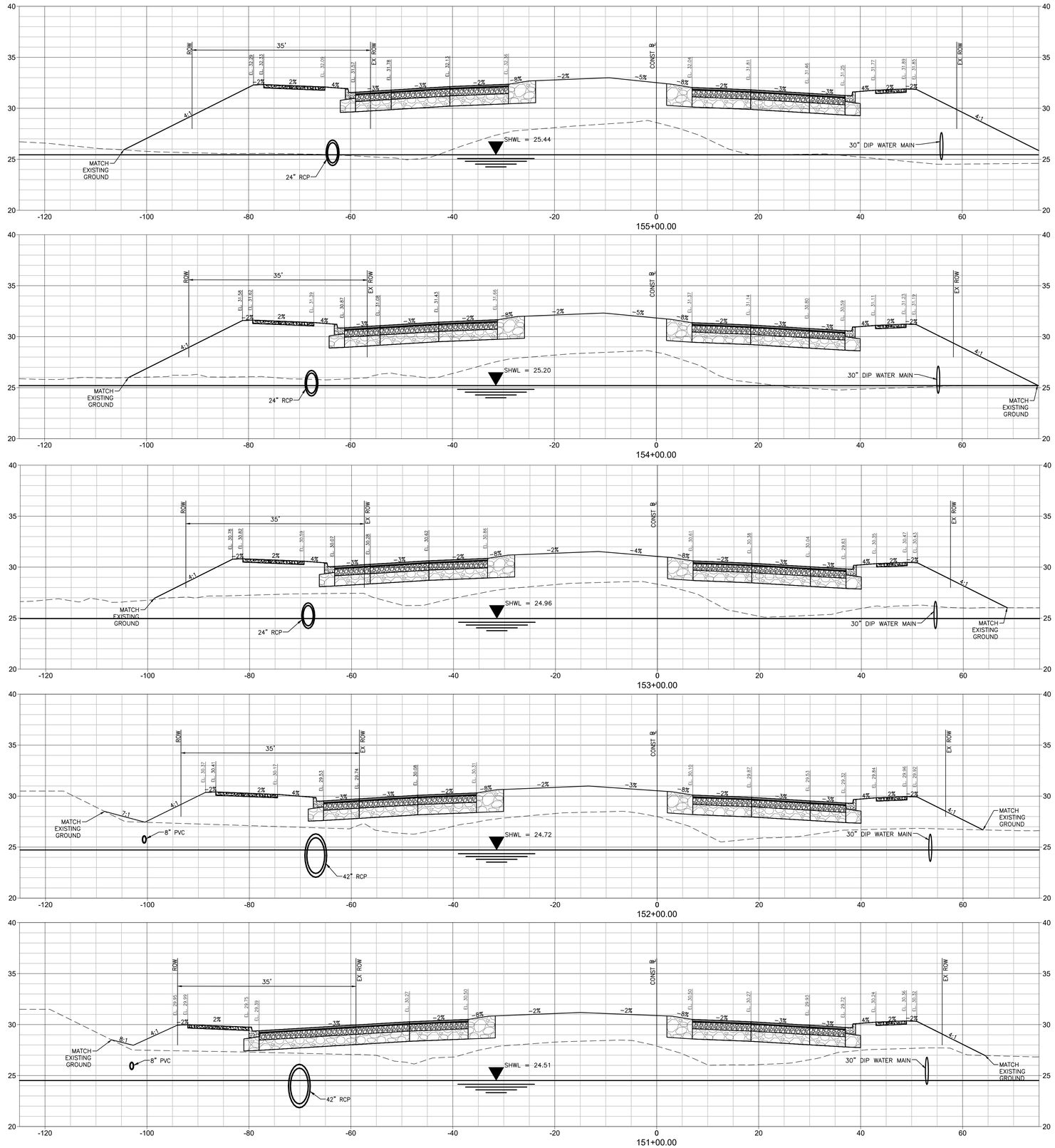
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 70 of 126

Drawing No.
70

ORIGINAL SHEET - ARCH D



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File Name: 215617221-01C-3025C
Scale: HORZ: 1" = 10' VERT: 1" = 5'

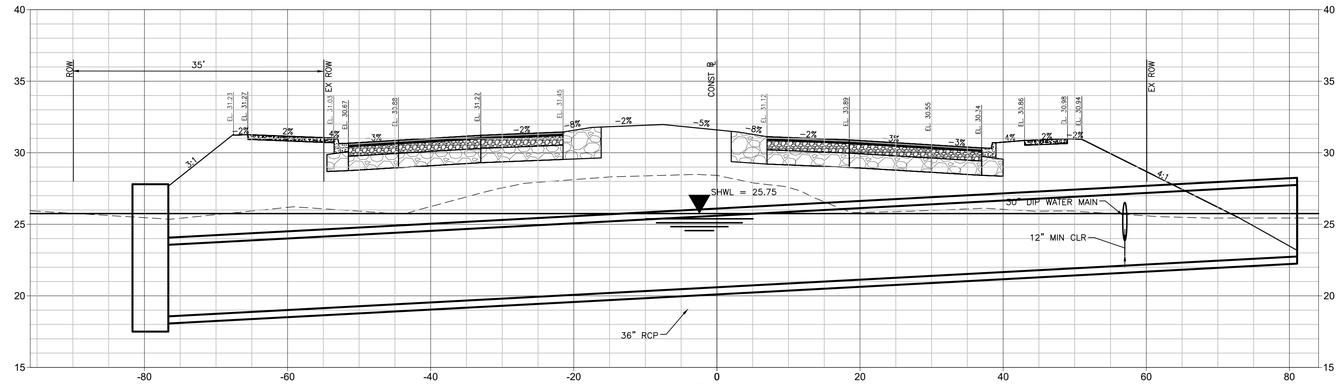
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 71 of 126

Drawing No.
71

ORIGINAL SHEET - ARCH D



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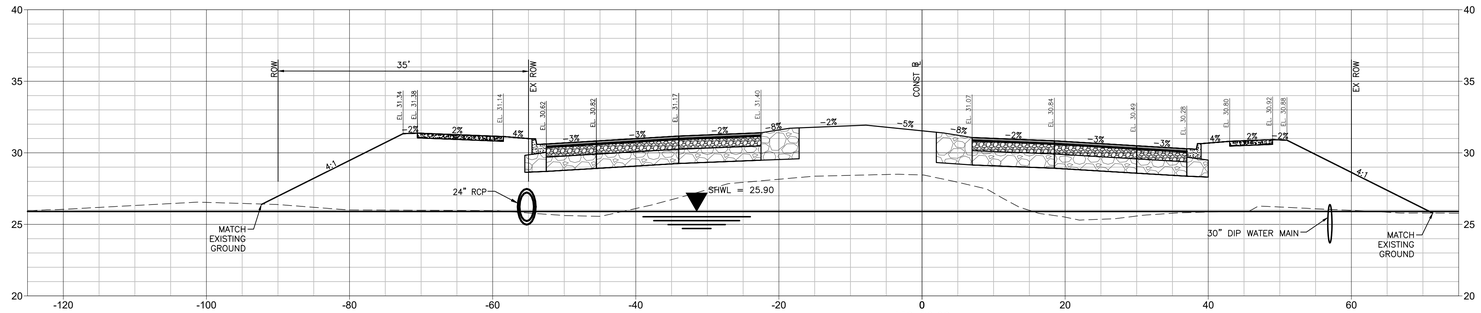

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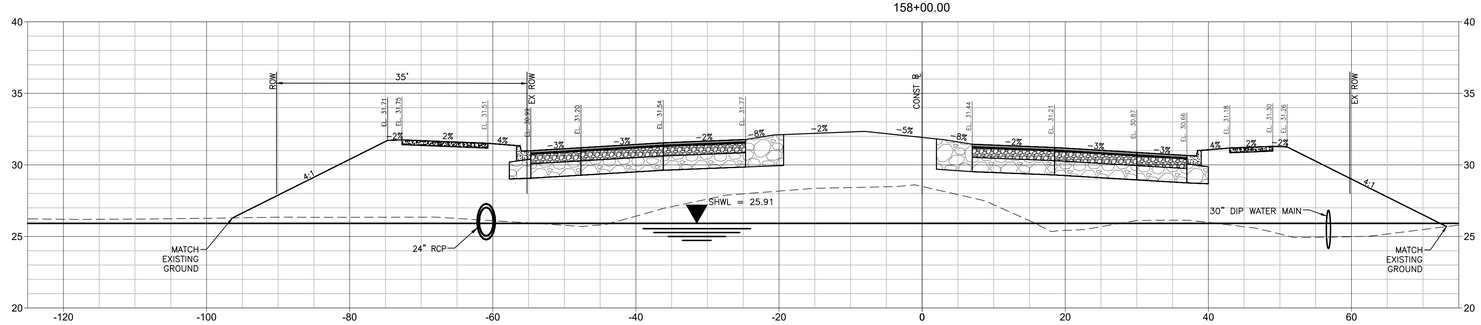
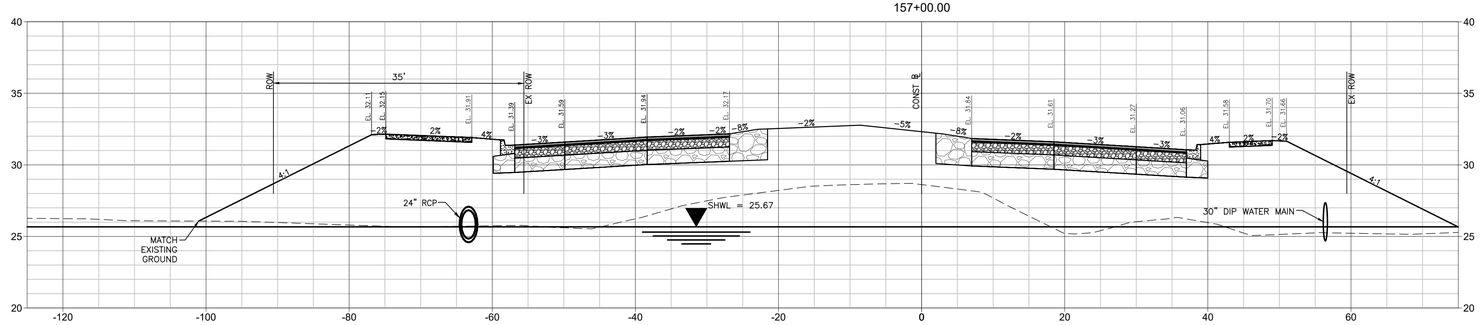


157+00.00



156+00.00

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Project No.: 215617221
File Name: 215617221-01C-302SC
Scale: HORZ: 1" = 10' VERT: 1" = 5'

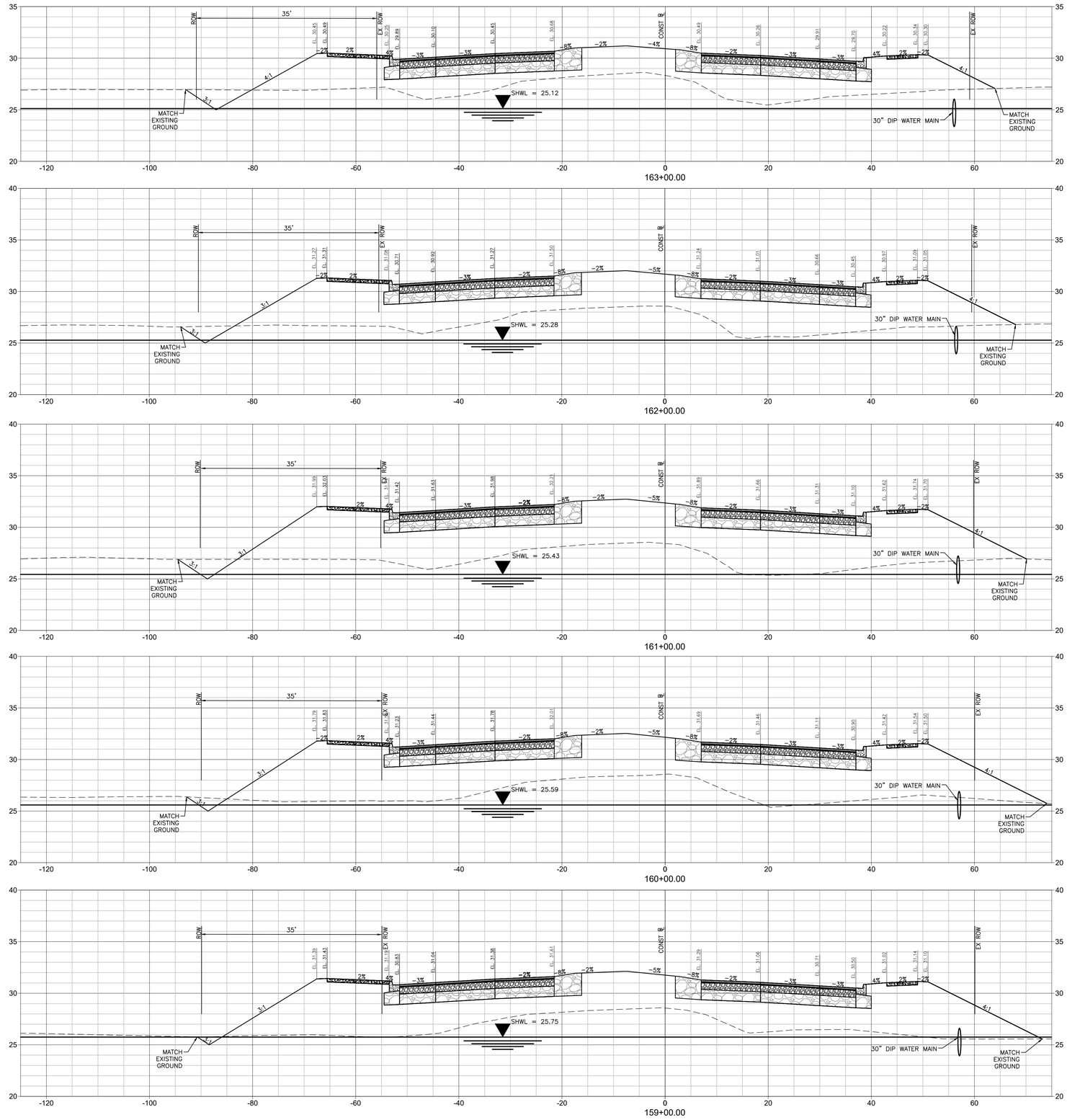
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 72 of 126

Drawing No.
72

ORIGINAL SHEET - ARCH D



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No.	By	Appd	YYYY.MM.DD	Issued

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3025C

Scale: HORZ: 1" = 10' VERT: 1" = 5'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 73 of 126

Drawing No.
73

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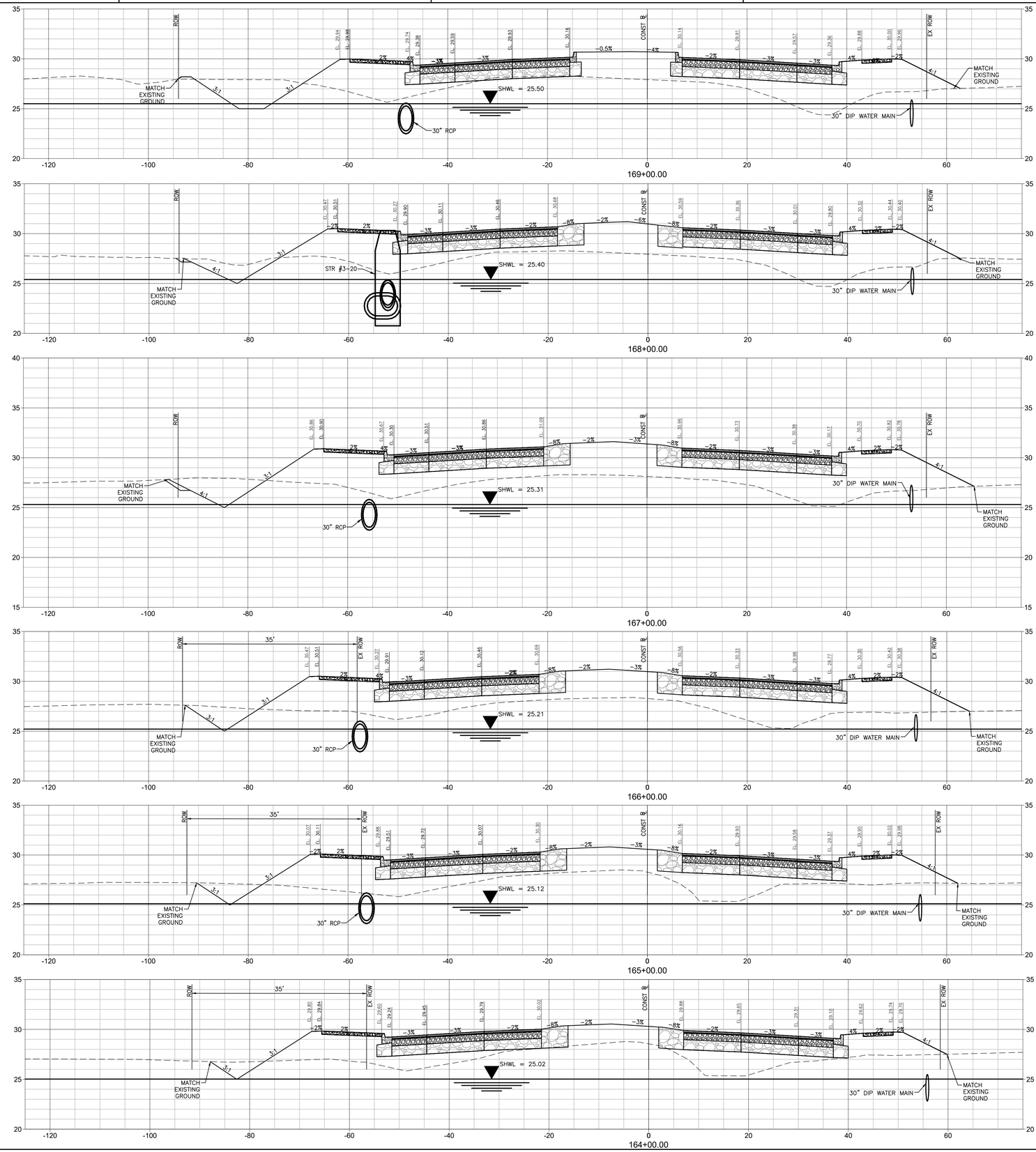

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MOCCASIN WALLOW ROAD SEGMENT 2

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Scale: HORZ: 1" = 10' VERT: 1" = 5'

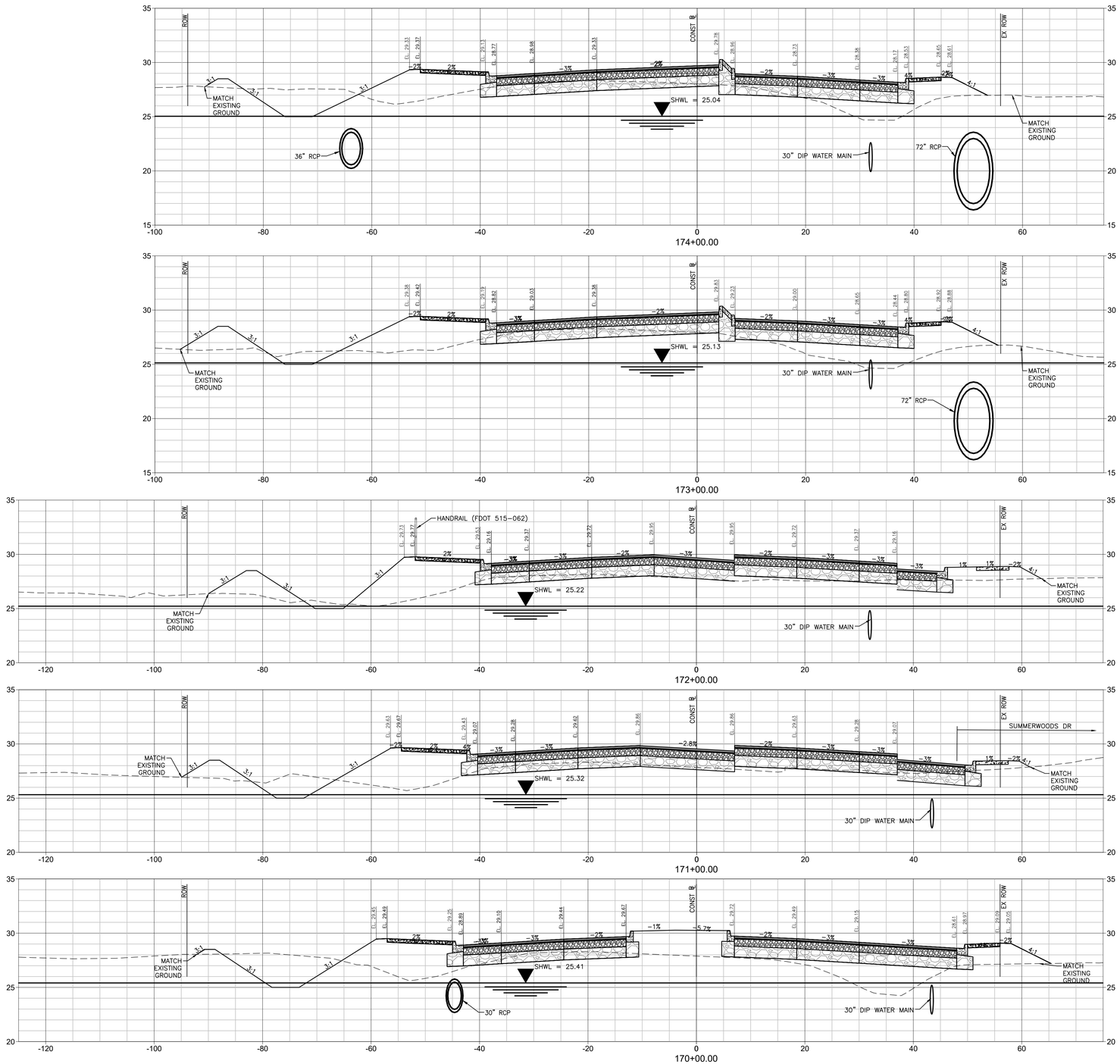
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 74 of 126

Drawing No.
74

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

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Scale: HORZ: 1" = 10' VERT: 1" = 5'

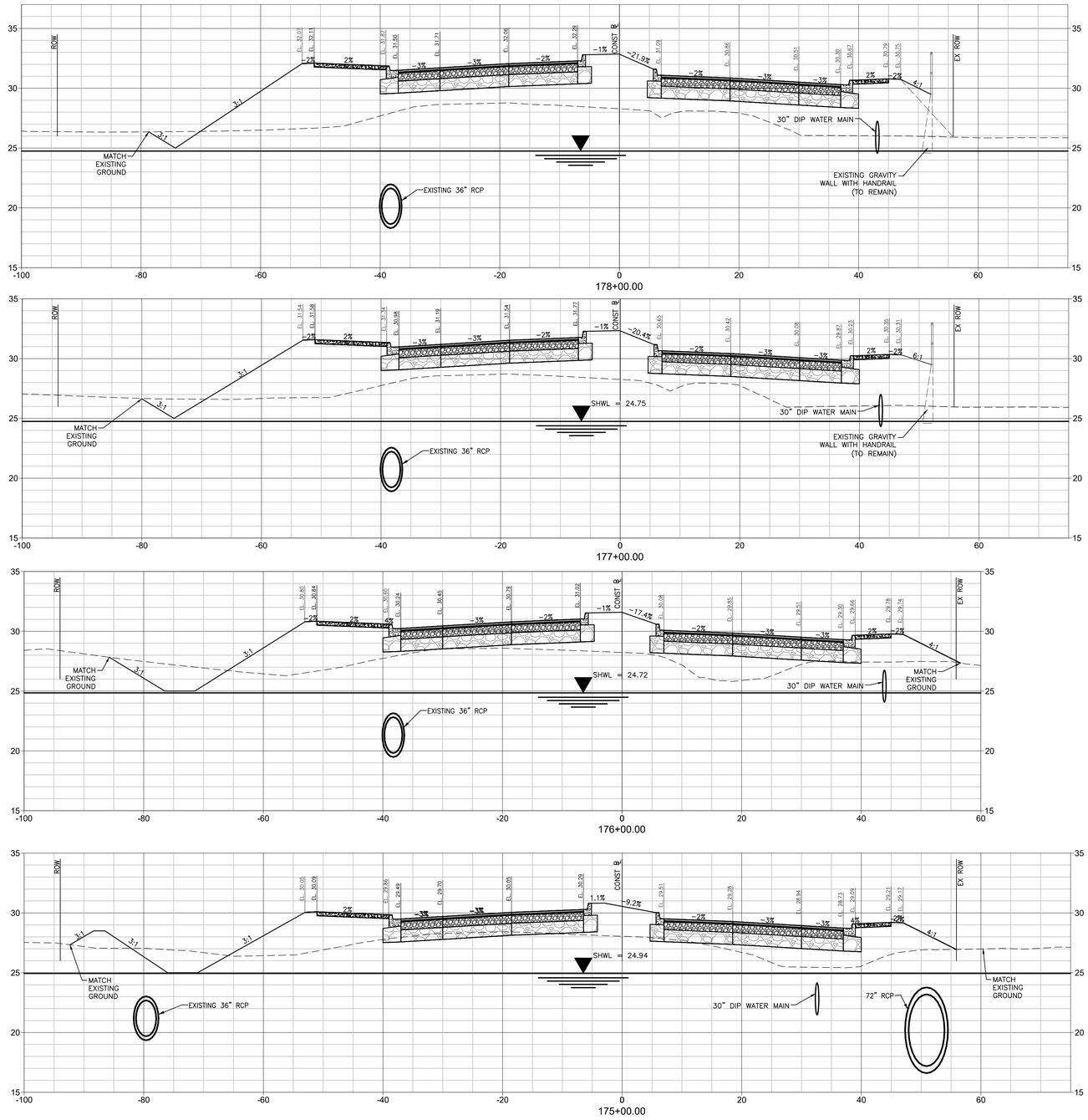
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
CROSS SECTIONS

Revision: Sheet: 75 of 126

Drawing No.
75

ORIGINAL SHEET - ARCH D



178+00.00

177+00.00

176+00.00

175+00.00

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-302SC

Scale: HORZ: 1" = 10' VERT: 1" = 5'

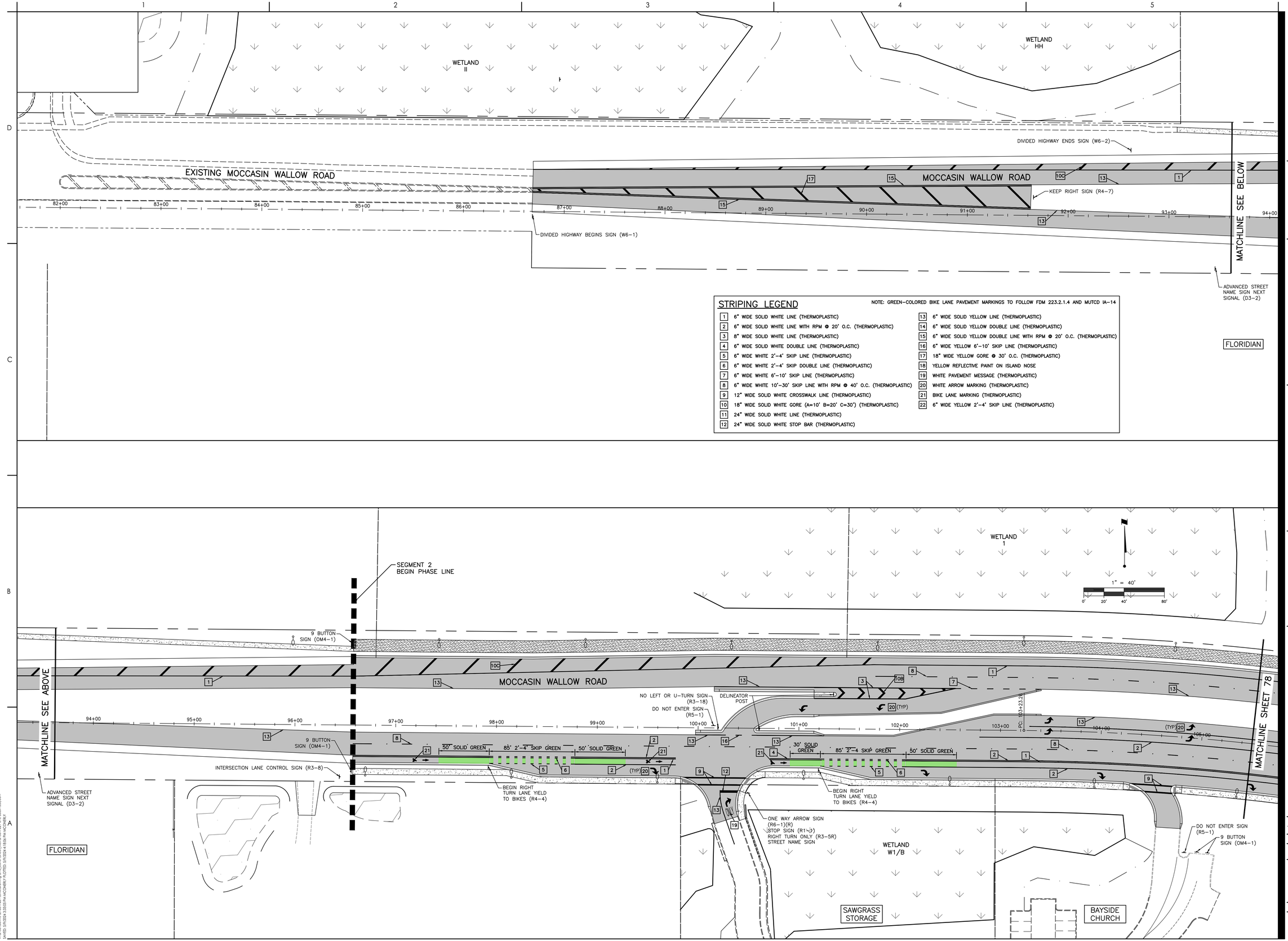
Drawn	Dsgn.	Chkd.	YYYY.MM.DD
			02/2022

Title
CROSS SECTIONS

Revision: Sheet: 76 of 126

Drawing No.
76

ORIGINAL SHEET - ARCH D



STRIPING LEGEND

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

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

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B: ADD ST SIGN	MSC		5/9/24
Revision	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-30SSN
Scale: 1" = 40'

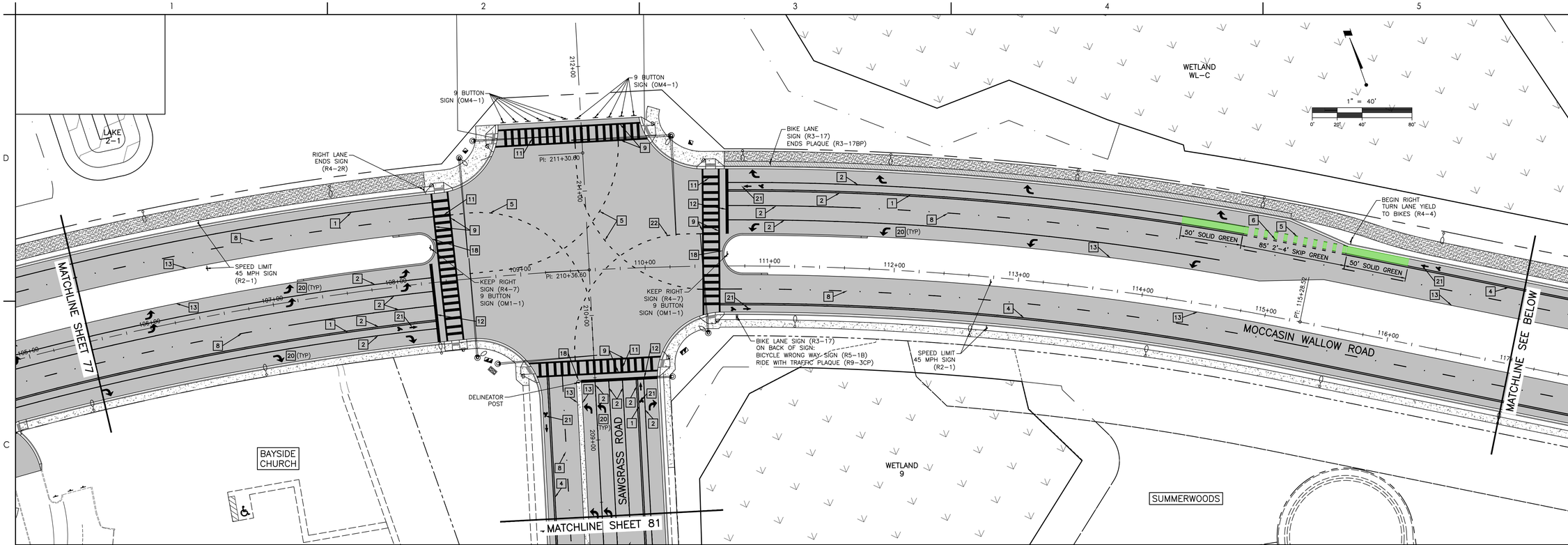
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 77 of 126

Drawing No.
77

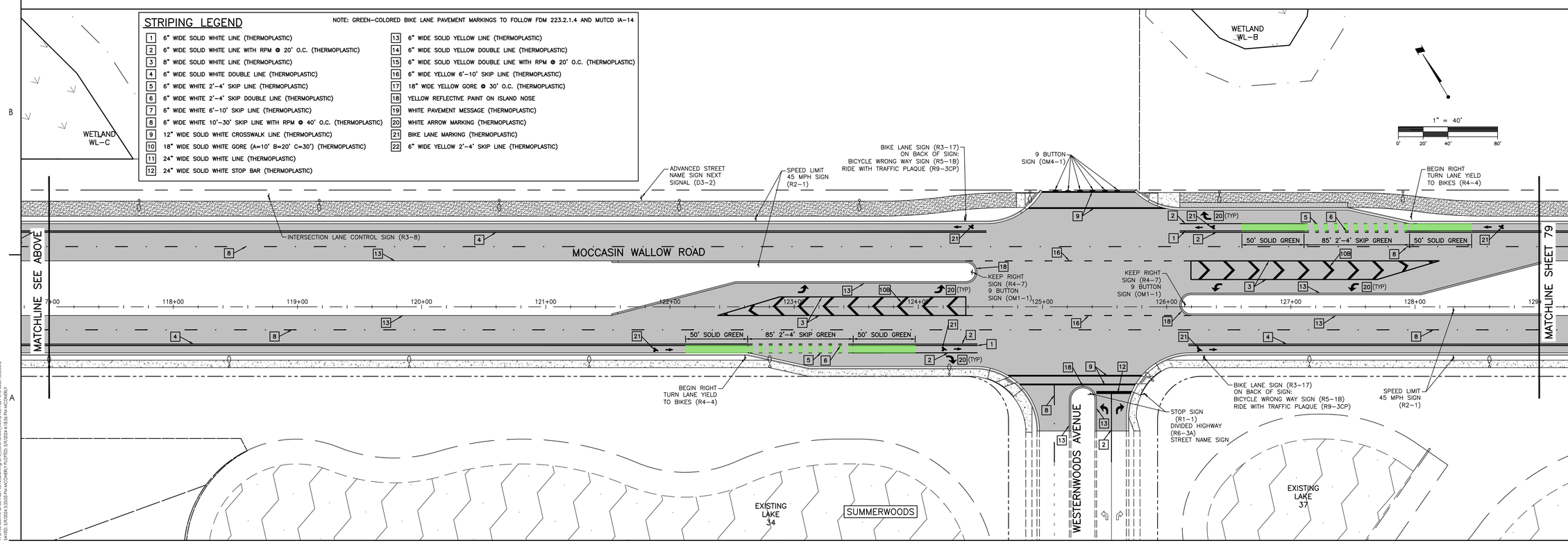
ORIGINAL SHEET - ARCH D



STRIPING LEGEND

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

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



ORIGINAL SHEET - ARCH D

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By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

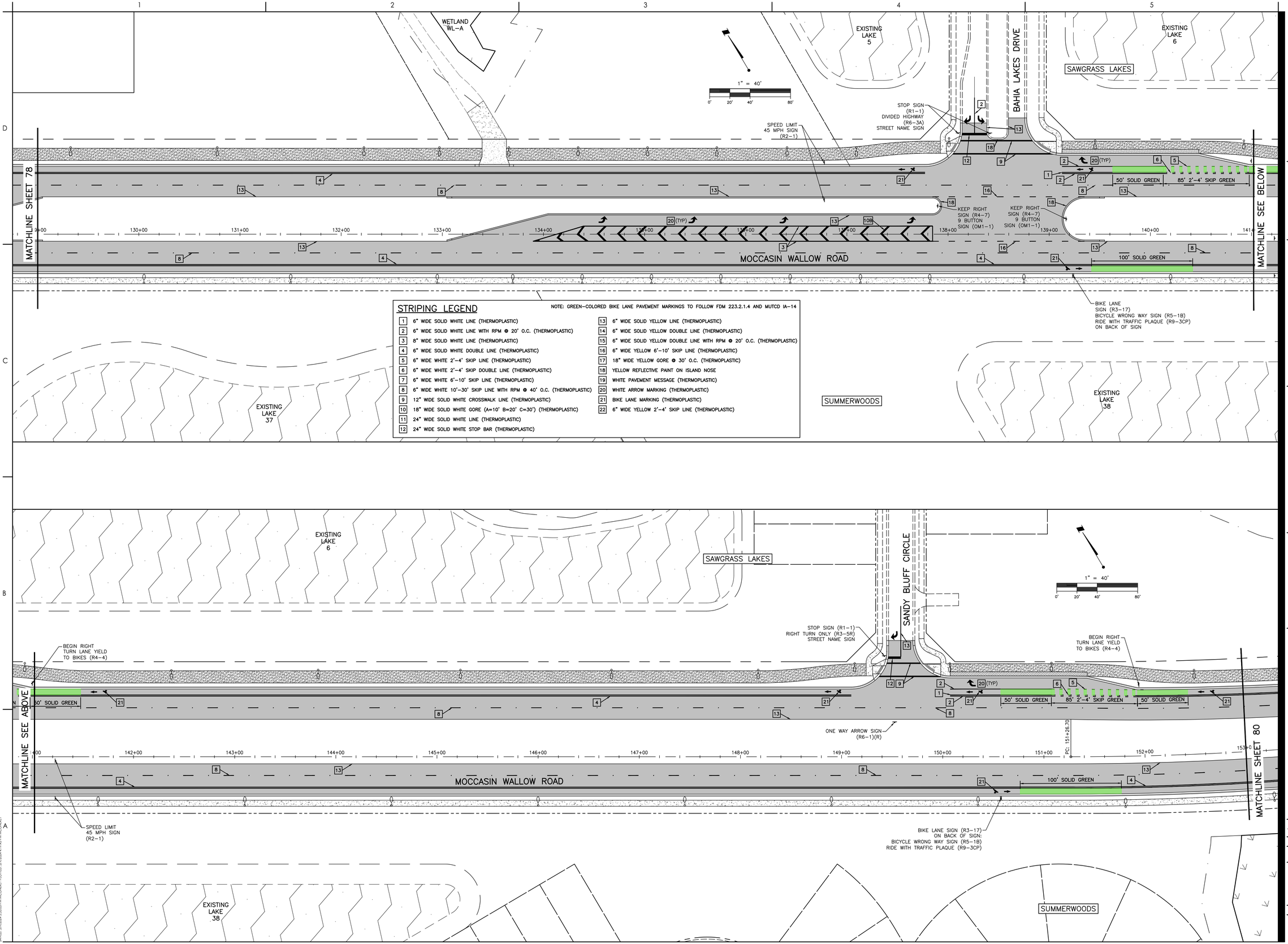
Project No.: 215617221
File Name: 215617221-01C-30SSN
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	YYYY.MM.DD
			02/2022

Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 78 of 126

Drawing No.
78



STRIPING LEGEND

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

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

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Revision	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3055N

Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 79 of 126

Drawing No.
79

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ORIGINAL SHEET - ARCH D

STRIPING LEGEND

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

1	6" WIDE SOLID WHITE LINE (THERMOPLASTIC)
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19	WHITE PAVEMENT MESSAGE (THERMOPLASTIC)
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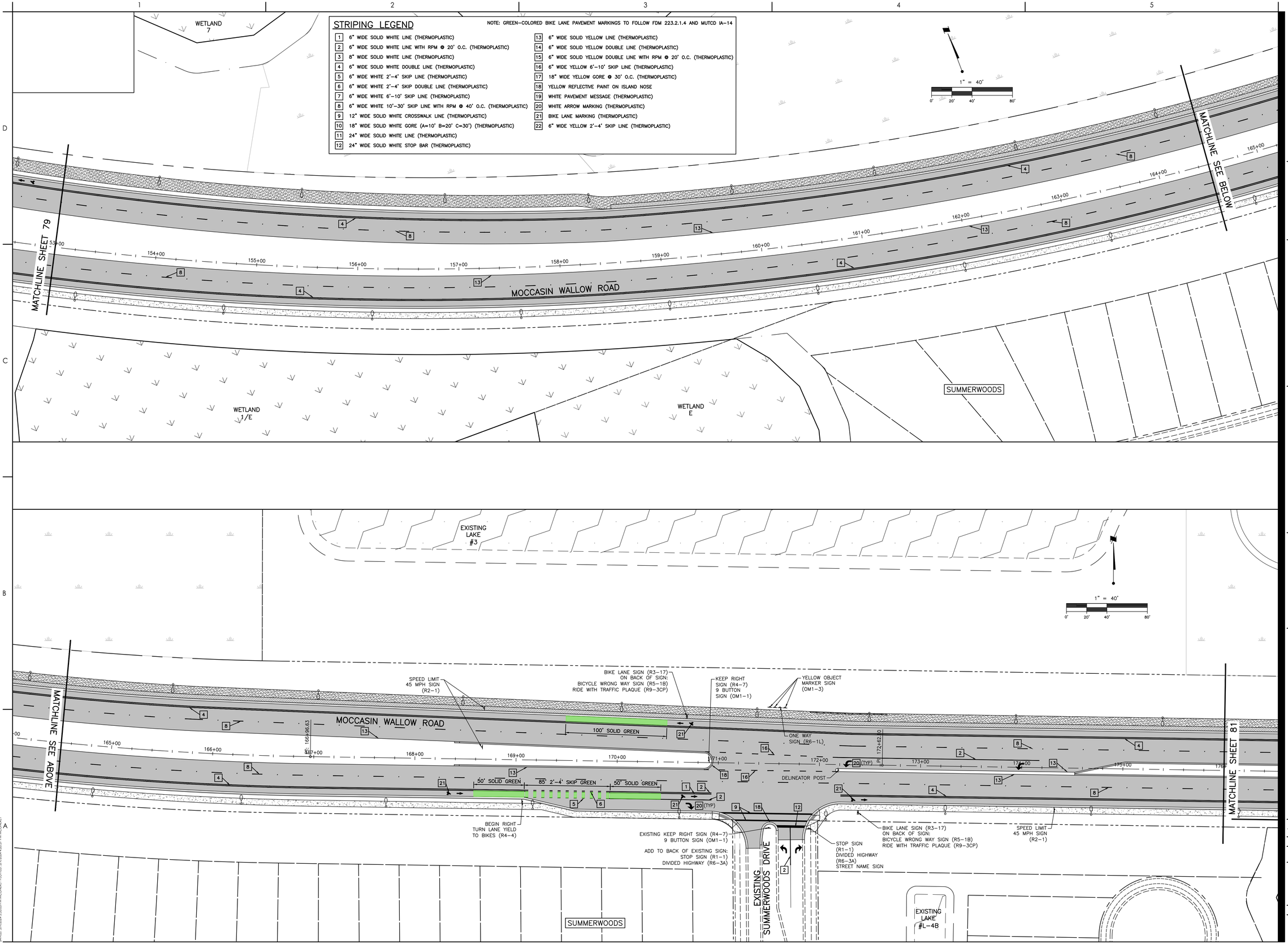
21	BIKE LANE MARKING (THERMOPLASTIC)
22	6" WIDE YELLOW 2'-4' SKIP LINE (THERMOPLASTIC)



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B: ADD ST SIGN	MSC		5/9/24

Revision

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3055N
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 80 of 126

Drawing No.
80

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SAVED: 5/9/2024 3:33:53 PM mCOHEN1 PLOTTED: 5/9/2024 4:20:31 PM mCOHEN1
ORIGINAL SHEET - ARCH D

STRIPING LEGEND

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

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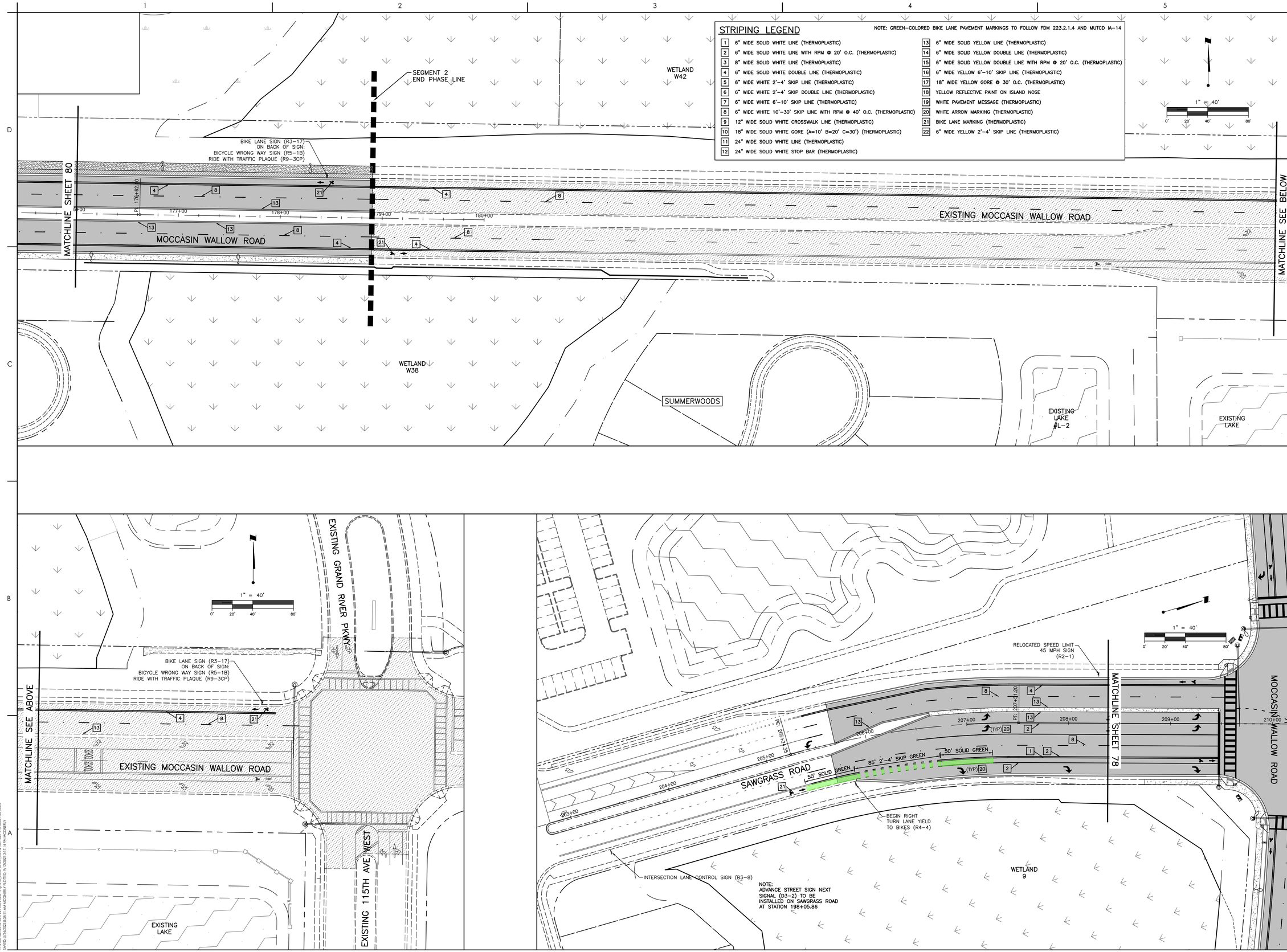

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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-30SSN

Scale: 1" = 40'

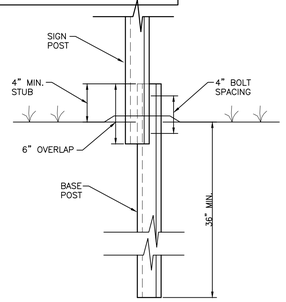
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

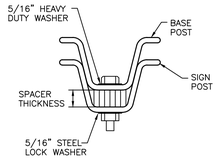
Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 81 of 126

Drawing No.
81

ORIGINAL SHEET - ARCH D

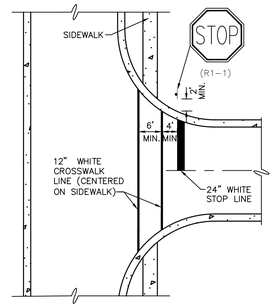




SECTION THROUGH SPLICE
N.T.S.

NOTE:
ALL MATERIALS AS PER FDOT 700-010
AND ALL APPLICABLE COUNTY REQUIREMENTS.

SIGN POST BREAKAWAY DETAIL
N.T.S.

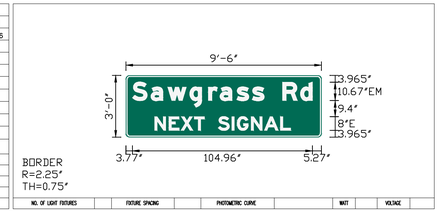


STOP SIGN, STOP LINE AND CROSSWALK LOCATION DETAIL
N.T.S.

SIGN NAME	GS-1		QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER				93+46.61
WIDTH	9'-6"	WIDTH	0.75"			121+76.56
HEIGHT	3'-0"	RADII	2.25"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		ANCHOR LENGTH
GS-1	2		W6	12	10.87



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	S	o	w	9	r	o	s	s		R	d		L																				
SPACE	3.8	14.5	24.3	37.2	48	54.8	64.6	73.6	80.6	91.3	101.7		105																				
COPY	N	E	X	T		S	I	G	N	A	L		L																				
SPACE	16.7	25.1	32.1	39.8	45.8	53.8	61.8	64.8	73	80.7	90.1		79.4																				

SIGN NUMBER GS-1
PANEL WIDTH = 9.500 Ft.
PANEL DEPTH = 3.000 Ft.
GROUND SLOPE = FLAT
CLEAR HEIGHT = 7.000 Ft.

STEEL POSTS
TWO W6 X 12
THE CRITICAL POST IS NO. 1
AVG. POST LENGTH = 9.870 Ft.
UNBRACED LENGTH = 7.630 Ft.
MAX MOMENT = 53.807 IN-KIPS
ACTUAL STRESS = 7.361 KSI
ALLOWABLE STRESS = 28.728 KSI

ALUMINUM BEAMS
TWO I 6 x 4.030
THE CRITICAL POST IS NO. 1
AVG. POST LENGTH = 9.870 Ft.
UNBRACED LENGTH = 7.630 Ft.
MAX MOMENT = 53.807 IN-KIPS
ACTUAL STRESS = 7.341 KSI
ALLOWABLE STRESS = 11.970 KSI

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

SIGN NAME	GS-2		QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER				198+05.86
WIDTH	14'-6"	WIDTH	0.75"			
HEIGHT	3'-0"	RADII	2.25"			
LEGEND	White	COLOR	White			
COLOR	Green					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		ANCHOR LENGTH
GS-2	2	7'-0"	W6	12	9.87

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	M	o	c	c	o	s	i	n		W	o	l	l	o	w		R	d		L												
SPACE	3.8	16.1	25.5	34.6	43.8	53.6	63.6	69.6	76.7	87.3	100.1	111	116.9	122.1	131.2	142.1	152.8	163.2		166.4												
COPY	N	E	X	T		S	I	G	N	A	L		L																				
SPACE	46.7	55.1	62.1	69.8	75.8	83.8	91.8	94.8	103	110.7	120.1		79.4																				

SIGN NUMBER GS-2
PANEL WIDTH = 14.500 Ft.
PANEL DEPTH = 3.000 Ft.
GROUND SLOPE = FLAT
CLEAR HEIGHT = 7.000 Ft.

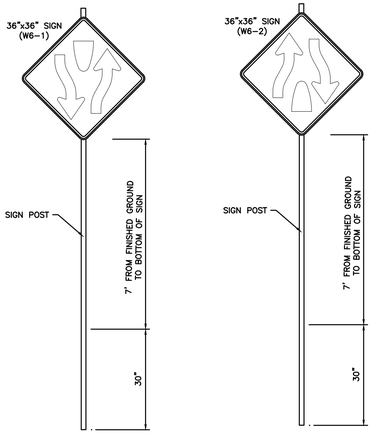
STEEL POSTS
TWO W6 X 12
THE CRITICAL POST IS NO. 1
AVG. POST LENGTH = 9.870 Ft.
UNBRACED LENGTH = 7.630 Ft.
MAX MOMENT = 82.126 IN-KIPS
ACTUAL STRESS = 11.235 KSI
ALLOWABLE STRESS = 28.728 KSI

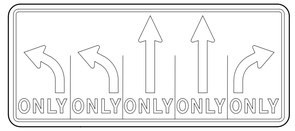
ALUMINUM BEAMS
TWO I 6 x 4.030
THE CRITICAL POST IS NO. 1
AVG. POST LENGTH = 9.870 Ft.
UNBRACED LENGTH = 7.630 Ft.
MAX MOMENT = 82.126 IN-KIPS
ACTUAL STRESS = 11.204 KSI
ALLOWABLE STRESS = 11.970 KSI

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

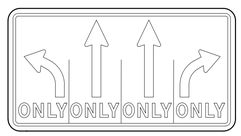
GUIDE SIGN WORKSHEET
N.T.S.

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





MOCCASIN WALLOW ROAD STA 96+44.91
SAWGRASS ROAD STA 203+29.00
75"x30" SIGN
(R3-8)



MOCCASIN WALLOW ROAD STA 118+76.52
60"x30" SIGN
(R3-8)

GREEN BACKGROUND W/ WHITE LETTER
48"
6", B SERIES
3", B SERIES
9"
Summerwoods Dr ####
3", B SERIES
(BLOCK NO.)

GREEN BACKGROUND W/ WHITE LETTER
42"
6", B SERIES
9"
Bahia Lakes Dr ####
3", B SERIES
(BLOCK NO.)

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

GREEN BACKGROUND W/ WHITE LETTER
48"
6", B SERIES
3", B SERIES
9"
Moccasin Wallow Rd ####
3", B SERIES
(BLOCK NO.)

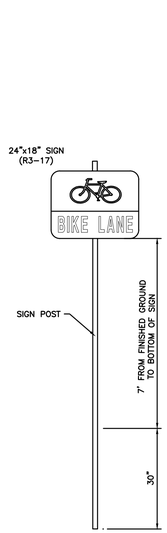
GREEN BACKGROUND W/ WHITE LETTER
48"
6", B SERIES
3", B SERIES
9"
Westernwoods Ave ####
3", B SERIES
(BLOCK NO.)

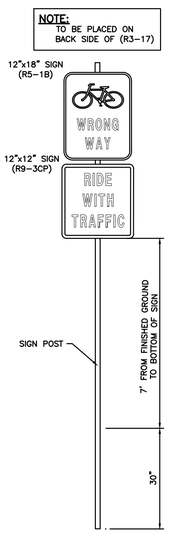
GREEN BACKGROUND W/ WHITE LETTER
42"
6", B SERIES
3", B SERIES
9"
Sandy Bluff Cir ####
3", B SERIES
(BLOCK NO.)

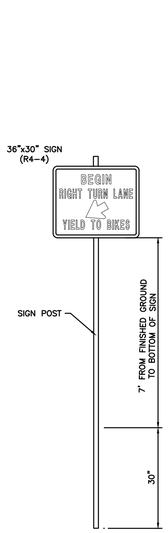
SIGN BLANK DETAILS
N.T.S.

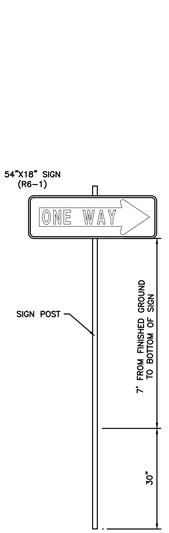
NOTES

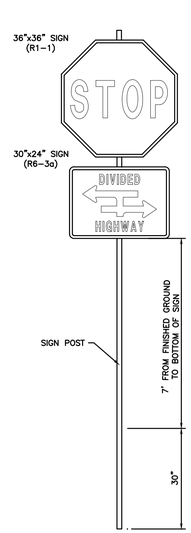
1. THE COLOR AND LOCATION OF THE REFLECTIVE PAVEMENT MARKERS (R.P.M.'S) SHALL BE IN CONFORMANCE WITH FDOT STANDARD INDEX NO. 706-001. ALL R.P.M.'S SHALL BE INSTALLED WITH BITUMINOUS ADHESIVE AND SHALL NOT BE INSTALLED ON THERMOPLASTIC PAVEMENT MARKINGS.
2. STRIPING AND SIGNAGE SHALL CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND THE FDOT STANDARD INDEX DRAWINGS FOR SUCH.
3. ALL SIGNAGE WILL BE INSTALLED BY CONTRACTOR.
4. ALL STRIPING FOR THE INTERSECTIONS SHALL CONFORM WITH THE FDOT STANDARD INDEX NO. 711-001.
5. ALL BIKE LANE MARKINGS SHALL CONFORM WITH THE FDOT STANDARD INDEX NO. 711-002.
6. ALL STRIPING SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED. THERMOPLASTIC MARKINGS SHALL BE IN ACCORDANCE WITH FDOT SPECIFICATION 711.
7. STRIPING NOTED AS "PAINT" SHALL BE IN ACCORDANCE WITH FDOT SECTION 706-001.
8. ALL SIGN RETROREFLECTIVITY MUST MEET THE RETROREFLECTIVITY REQUIREMENTS OF THE LATEST EDITION OF THE MUTCD.
9. 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.
10. 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.
11. 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.

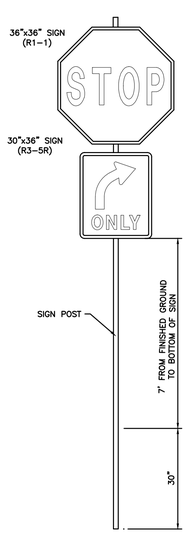


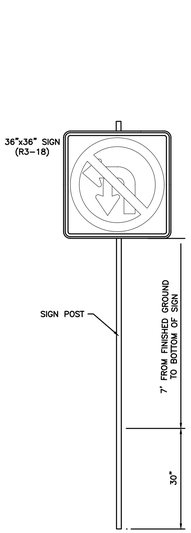


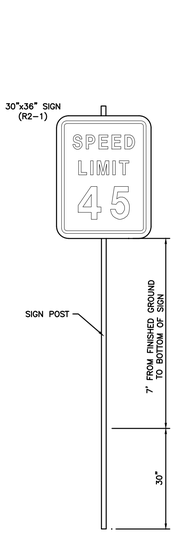


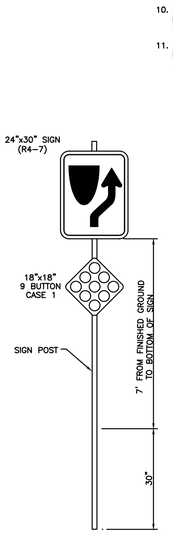


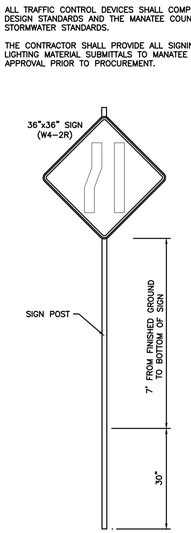


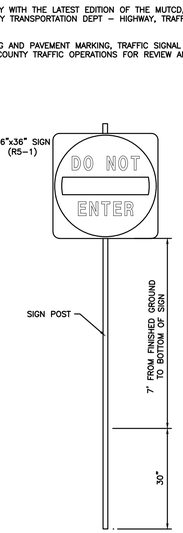












TYPICAL SIGN DETAILS
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B.	REV. SIGNS	MSC		5/9/24
		By	Appd	YYYY.MM.DD

Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-30SSN
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
SIGNAGE AND STRIPING PLAN

Revision: Sheet: 82 of 126
Drawing No.
82

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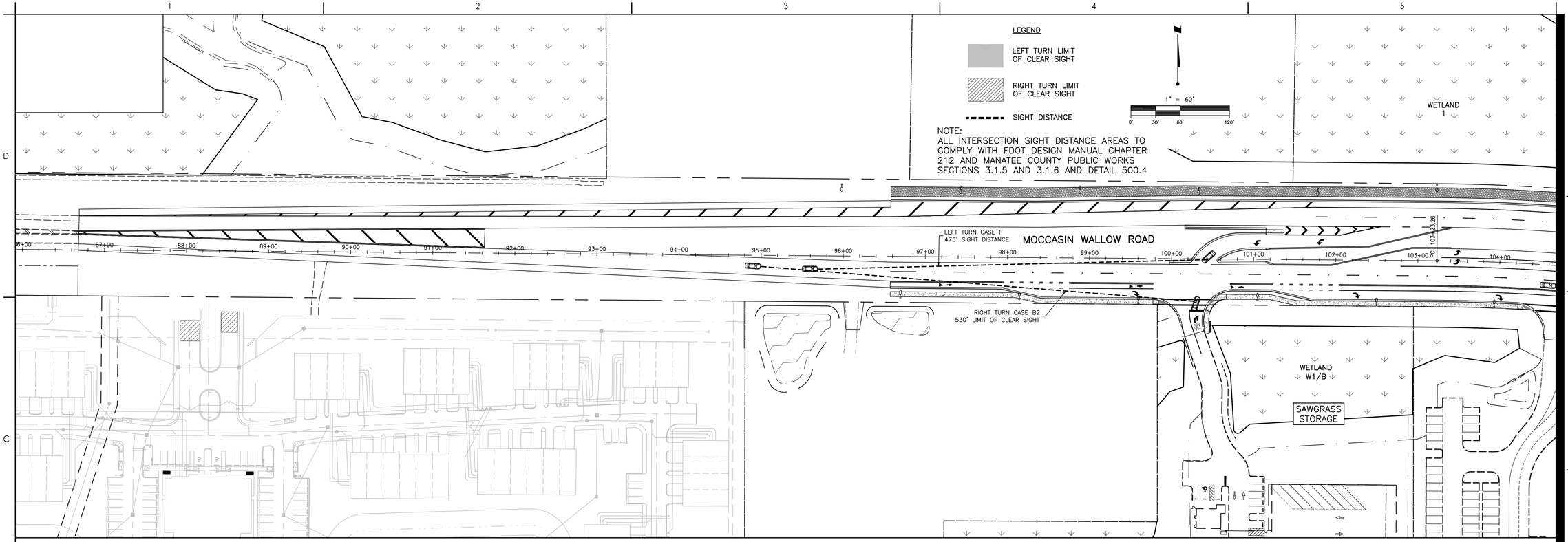

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Revision		By		
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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3095P
Scale: 1" = 60'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
INTERSECTION SIGHT DISTANCE

Revision: Sheet: 83 of 126
Drawing No.
83

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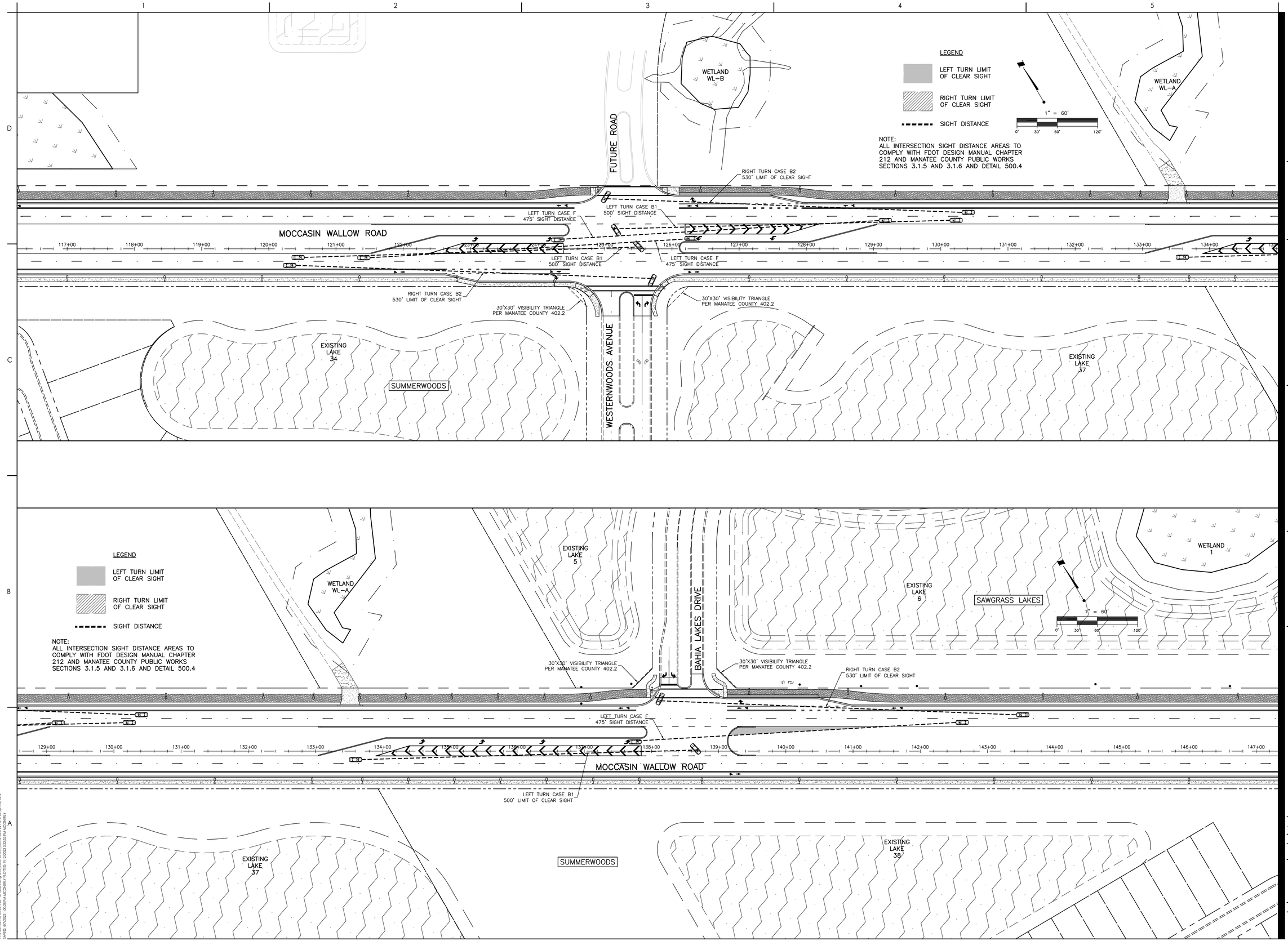

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

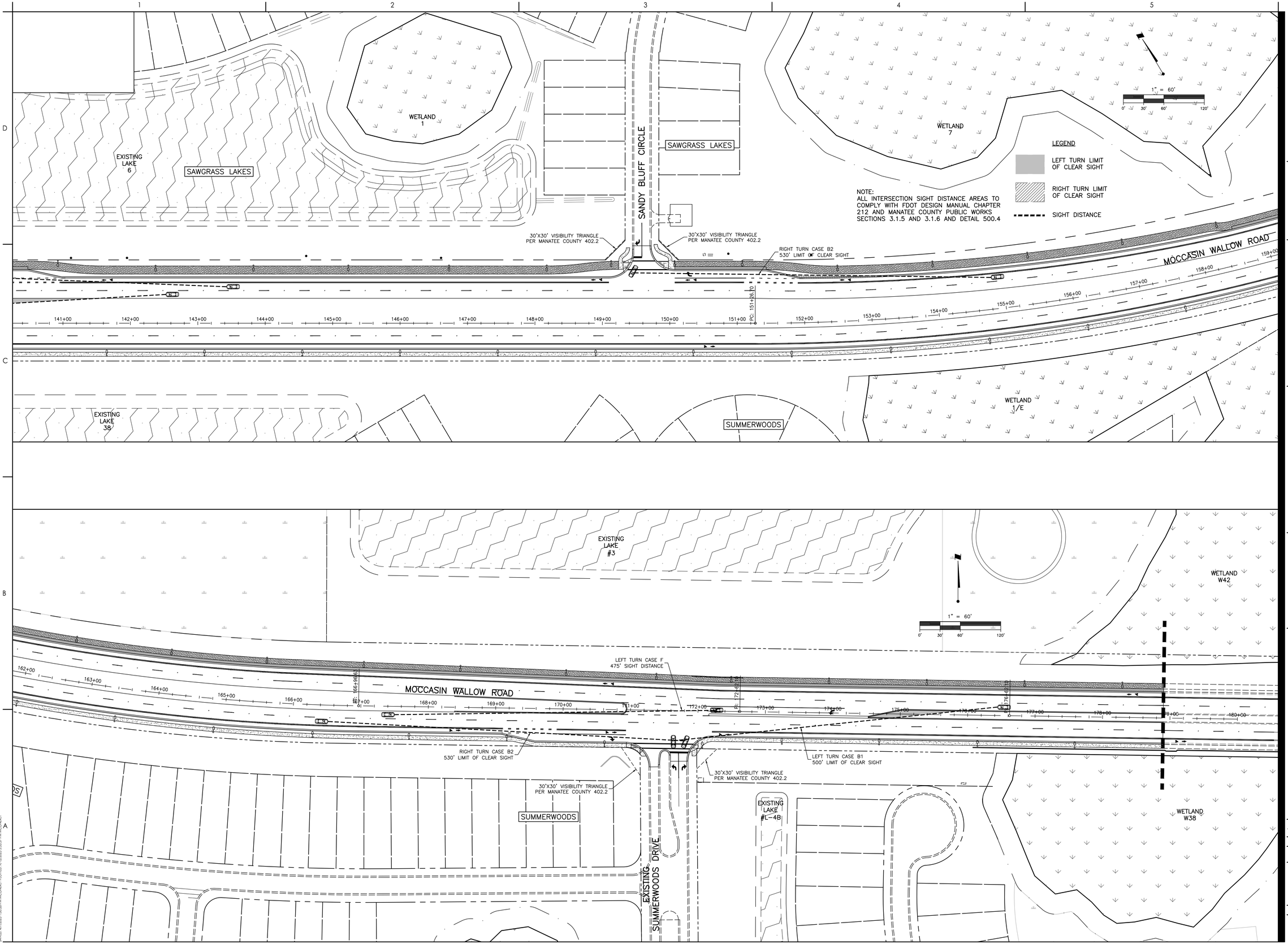
Project No.: 215617221
File Name: 215617221-01C-309SP
Scale: 1" = 60'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
INTERSECTION SIGHT DISTANCE

Revision: Sheet: 84 of 126

Drawing No.
84



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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-3095P
Scale: 1" = 60'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
INTERSECTION SIGHT DISTANCE

Revision: Sheet: 85 of 126

Drawing No.
85

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SAVED: 4/7/2022 1:00:28 PM by MCDANIEL PLOTTED: 4/7/2022 3:33:57 PM by MCDANIEL
ORIGINAL SHEET - ARCH D

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS 91 PLAN	91 FINAL	92 PLAN	92 FINAL	93 PLAN	93 FINAL	94 PLAN	94 FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	TOTAL THIS SHEET PLAN	TOTAL THIS SHEET FINAL	GRAND TOTAL PLAN	GRAND TOTAL FINAL
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	3854		4804		4689		2689								16036		16036	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	480		136												616		616	
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	32		43		35		22								132		132	
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	15258		17868		16539		9603								59268		59268	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 - 2	LF			688												688		688	
715-61-352	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT, 15' ARM LENGTH	EA	30		27		33		20								110		110	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA			1												1		1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	30		41		33		20								124		124	
715-511-313	LIGHT POLE COMPLETE - SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, CONCRETE, 13'	EA			14												14		14	

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01
Scale:
Drawn | Dsgn. | Chkd. | 02/2022 YYYY.MM.DD

Title
TABULATION OF QUANTITIES

Revision: Sheet: 86 of 117
Drawing No.
86

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SAVED: MCCONERLY MCCONERLY PLOTTED: — MCCONERLY
ORIGINAL SHEET - ARCH D

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 (NESC), 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(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 COUNTY 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.

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No.	By	Appd	YYYY.MM.DD	Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
GENERAL NOTES

Revision: Sheet: 87 of 117

Drawing No.
87

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ORIGINAL SHEET - ARCH D

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 IT'S 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.

715-61-352:
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 CCT AND EITHER TYPE II, TYPE III, 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.

715-500-1:
INCLUDES COST OF BREAKAWAY WATERTIGHT IN-LINE FUSE HOLDERS, STRAIN RELIEF, AND SURGE ARRESTOR AS INDICATED IN FDOT STANDARD PLANS INDEX 715-001.

715-511-313:
FOR LIGHT POLES LOCATED WITHIN THE FPL TRANSMISSION EASEMENT, UTILIZE THE FOLLOWING PRODUCTS LISTED IN THE FPL LED LIGHTING CATALOG: POLE OPTION NUMBER 1, 20' STANDARD CONCRETE (13' MH) AND BRACKET OPTION NUMBER 1, STANDARD 8' SIDE MOUNTED. SUBMIT SHOP DRAWINGS FOR BOTH THE POLE AND THE BRACKET TO THE ENGINEER FOR APPROVAL.

LUMINAIRES INCLUDED UNDER THIS ITEM SHALL BE AEL ATB0 LED WITH 4000K CCT AND TYPE VS DISTRIBUTION. SEE LEGEND AND POLE DATA TABLES FOR WATTAGE, PHOTOMETRIC CURVE, AND ADDITIONAL DETAILS.

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAY ITEM NOTES

Revision: Sheet: 88 of 117

Drawing No.
88

mcdaniel.mconnelly
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ORIGINAL SHEET - ARCH D

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	OFFSET	PAY ITEM
300	B-2	96+71.01	15'	82	40'	49.8' RT	715-61-352
301	B-1	95+98.48	15'	82	40'	87.3' LT	715-61-352
302	B-2	98+16.01	15'	82	40'	50.9' RT	715-61-352
303	B-1	97+43.48	15'	82	40'	85.8' LT	715-61-352
304	B-2	99+61.01	15'	82	40'	54.5' RT	715-61-352
305	B-1	98+88.48	15'	82	40'	87.0' LT	715-61-352
306	B-2	101+06.01	15'	111	40'	50.0' RT	715-61-352
307	B-1	100+33.48	15'	111	40'	86.6' LT	715-61-352
308	B-2	102+51.01	15'	111	40'	54.5' RT	715-61-352
309	B-1	101+78.48	15'	111	40'	86.8' LT	715-61-352
310	B-2	103+95.92	15'	111	40'	54.5' RT	715-61-352
311	B-1	103+23.44	15'	111	40'	93.2' LT	715-61-352
312	B-2	105+40.76	15'	111	40'	54.5' RT	715-61-352
313	B-1	104+68.30	15'	82	40'	92.5' LT	715-61-352
314	B-2	106+85.59	15'	149	40'	54.5' RT	715-61-352
315	B-1	106+13.14	15'	82	40'	92.5' LT	715-61-352
316	B-2	108+30.43	15'	149	40'	57.0' RT	715-61-352
316A	B-2	110+18.55	15'	149	40'	126.6' RT	715-61-352
317	B-1	107+57.99	15'	82	40'	86.9' LT	715-61-352
317A	B-1	108+82.47	15'	149	40'	157.9' LT	715-61-352
318	B-2	111+21.28	15'	82	40'	48.2' RT	715-61-352
319	B-1	110+78.27	15'	111	40'	92.5' LT	715-61-352
320	B-2	112+64.45	15'	82	40'	48.2' RT	715-61-352
321	B-1	111+92.52	15'	111	40'	92.5' LT	715-61-352
322	B-2	114+09.22	15'	82	40'	48.2' RT	715-61-352
323	B-1	113+37.36	15'	111	40'	92.5' LT	715-61-352
324	B-2	115+53.90	15'	82	40'	47.7' RT	715-61-352
325	B-1	114+82.21	15'	111	40'	92.5' LT	715-61-352
326	B-2	116+99.63	15'	82	40'	48.2' RT	715-61-352
327	B-1	116+27.09	15'	82	40'	92.5' LT	715-61-352
328	B-2	118+44.63	15'	82	40'	48.2' RT	715-61-352
329	B-1	117+72.09	15'	82	40'	85.8' LT	715-61-352
330	B-2	119+89.63	15'	82	40'	48.2' RT	715-61-352
331	B-1	119+17.09	15'	82	40'	85.8' LT	715-61-352
332	B-2	121+34.63	15'	82	40'	48.2' RT	715-61-352
333	B-1	120+62.09	15'	82	40'	85.8' LT	715-61-352
334	B-2	122+79.63	15'	111	40'	48.2' RT	715-61-352
335	B-1	122+07.09	15'	82	40'	85.8' LT	715-61-352
336	B-2	124+24.63	15'	111	40'	54.5' RT	715-61-352
337	B-1	123+52.09	15'	82	40'	85.8' LT	715-61-352
338	B-2	125+88.34	15'	111	40'	59.4' RT	715-61-352
339	B-1	124+89.56	15'	111	40'	92.5' LT	715-61-352
340	B-2	127+14.63	15'	111	40'	48.2' RT	715-61-352
341	B-1	126+42.10	15'	111	40'	92.5' LT	715-61-352
342	B-2	128+59.63	15'	82	40'	48.2' RT	715-61-352
343	B-1	127+89.89	15'	82	40'	92.5' LT	715-61-352
344	B-2	130+04.63	15'	82	40'	48.2' RT	715-61-352
345	B-1	129+32.10	15'	82	40'	85.8' LT	715-61-352
346	B-2	131+49.64	15'	82	40'	48.2' RT	715-61-352
347	B-1	130+77.10	15'	82	40'	85.8' LT	715-61-352

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Horizontal Fc	1.0 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
	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.
	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.
	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.
	58W LED luminaire with single 15' arm. GE Evolve ERL1 designed for Type III (Medium) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL1_07B340 or equal. Symbol includes concrete slab and pull box.
	84W LED luminaire with single 15' arm. GE Evolve ERL1 designed for Type III (Medium) distribution and wired for 480 volt operation. Pole mounting height 40 ft. Use curve ERL1_09B340 or equal. Symbol includes concrete slab and pull box.
	49W LED luminaire with single 8' arm. AEL ATB0 designed for Type VS (Short) distribution and wired for 480 volt operation. Pole mounting height 13 ft. Use curve ATB0_P202_R5_4K or equal. Symbol includes concrete slab and pull box.
	305W LED luminaire with single 15' arm. GE Evolve EALP designed for Type IV (Short) distribution and wired for 120 volt operation. Pole mounting height 40 ft. on mast arm uprights. Use curve EALP03_MH4AH740 or equal. Note: These luminaires are to be powered from the traffic signal controller cabinet disconnect, and have been quantified in the Signalization Plans.
	Existing single 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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MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
POLE DATA & LEGEND

Revision: Sheet: 89 of 117

Drawing No.
89

mcohen mconnelly
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ORIGINAL SHEET - ARCH D

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	OFFSET	PAY ITEM
348	B-2	132+94.64	15'	82	40'	48.2' RT	715-61-352
349	B-1	132+22.10	15'	82	40'	85.8' LT	715-61-352
350	B-2	133+69.32	8'	49	13'	48.2' RT	715-511-313
351	B-1	132+96.79	8'	49	13'	85.8' LT	715-511-313
352	B-2	134+37.88	8'	49	13'	48.2' RT	715-511-313
353	B-1	133+65.34	8'	49	13'	85.8' LT	715-511-313
354	B-2	135+06.43	8'	49	13'	48.2' RT	715-511-313
355	B-1	134+33.90	8'	49	13'	85.8' LT	715-511-313
356	B-2	135+74.98	8'	49	13'	48.2' RT	715-511-313
357	B-1	135+02.45	8'	49	13'	85.8' LT	715-511-313
358	B-2	136+43.54	8'	49	13'	48.2' RT	715-511-313
359	B-1	135+71.00	8'	49	13'	85.8' LT	715-511-313
360	B-2	137+12.96	8'	49	13'	48.2' RT	715-511-313
361	B-1	136+40.42	8'	49	13'	85.8' LT	715-511-313
362	B-2	137+81.51	8'	49	13'	48.2' RT	715-511-313
363	B-1	137+08.98	8'	49	13'	85.8' LT	715-511-313
364	B-2	138+74.64	15'	82	40'	48.2' RT	715-61-352
365	B-1	138+00.56	15'	82	40'	94.8' LT	715-61-352
366	B-4	140+19.64	15'	82	40'	48.2' RT	715-61-352
367	B-3	139+45.02	15'	82	40'	92.5' LT	715-61-352
368	B-4	141+64.64	15'	82	40'	48.2' RT	715-61-352
369	B-3	140+92.09	15'	82	40'	92.5' LT	715-61-352
370	B-4	143+09.64	15'	82	40'	48.2' RT	715-61-352
371	B-3	142+37.04	15'	82	40'	85.4' LT	715-61-352
372	B-4	144+54.64	15'	82	40'	48.2' RT	715-61-352
373	B-3	143+82.10	15'	58	40'	85.8' LT	715-61-352
374	B-4	145+99.64	15'	82	40'	48.2' RT	715-61-352
375	B-3	145+22.81	15'	58	40'	85.8' LT	715-61-352
376	B-4	147+44.64	15'	82	40'	48.2' RT	715-61-352
377	B-3	146+72.10	15'	82	40'	85.8' LT	715-61-352
378	B-4	148+89.64	15'	82	40'	48.2' RT	715-61-352
379	B-3	148+17.10	15'	82	40'	85.8' LT	715-61-352
380	B-4	150+34.64	15'	82	40'	48.2' RT	715-61-352
381	B-3	149+12.07	15'	58	40'	92.3' LT	715-61-352
382	B-4	151+79.72	15'	82	40'	49.5' RT	715-61-352
383	B-3	150+06.90	15'	58	40'	92.3' LT	715-61-352
384	B-4	153+24.84	15'	82	40'	50.0' RT	715-61-352
385	B-3	151+07.10	15'	82	40'	92.8' LT	715-61-352
386	B-4	154+69.97	15'	82	40'	50.0' RT	715-61-352
387	B-3	152+51.63	15'	82	40'	83.2' LT	715-61-352
388	B-4	156+15.09	15'	82	40'	50.0' RT	715-61-352
389	B-3	153+96.71	15'	82	40'	80.1' LT	715-61-352
390	B-4	157+60.21	15'	82	40'	50.0' RT	715-61-352
391	B-3	155+41.80	15'	82	40'	77.0' LT	715-61-352
392	B-4	159+05.34	15'	82	40'	50.0' RT	715-61-352
393	B-3	156+86.86	15'	82	40'	73.8' LT	715-61-352
394	B-4	160+50.46	15'	82	40'	50.0' RT	715-61-352
395	B-3	158+32.20	15'	82	40'	69.1' LT	715-61-352
396	B-4	161+95.58	15'	82	40'	50.0' RT	715-61-352
397	B-3	159+77.33	15'	82	40'	66.3' LT	715-61-352
398	B-4	163+40.70	15'	82	40'	50.0' RT	715-61-352
399	B-3	161+22.45	15'	82	40'	66.3' LT	715-61-352
400	B-4	164+85.82	15'	82	40'	50.0' RT	715-61-352
401	B-3	162+67.56	15'	82	40'	66.3' LT	715-61-352
402	B-4	166+30.99	15'	82	40'	48.2' RT	715-61-352
403	B-3	164+12.66	15'	82	40'	66.3' LT	715-61-352
404	B-4	167+73.10	15'	82	40'	48.2' RT	715-61-352
405	B-3	165+57.63	15'	82	40'	66.3' LT	715-61-352
406	B-4	169+18.10	15'	82	40'	48.2' RT	715-61-352
407	B-3	167+04.62	15'	82	40'	65.5' LT	715-61-352
408	B-4	170+63.10	15'	111	40'	54.5' RT	715-61-352
409	B-3	168+47.84	15'	82	40'	61.8' LT	715-61-352
410	B-4	172+08.10	15'	111	40'	54.5' RT	715-61-352
411	B-3	170+04.65	15'	82	40'	57.7' LT	715-61-352
412	B-4	173+25.25	15'	58	40'	47.1' RT	715-61-352
413	B-3	171+38.54	15'	82	40'	54.3' LT	715-61-352
414	B-4	174+70.24	15'	58	40'	45.7' RT	715-61-352
415	B-3	172+49.48	15'	84	40'	51.4' LT	715-61-352
416	B-4	176+15.28	15'	58	40'	45.8' RT	715-61-352
417	B-3	173+94.50	15'	84	40'	51.3' LT	715-61-352
418	B-4	177+59.48	15'	58	40'	45.8' RT	715-61-352
419	B-3	175+39.52	15'	84	40'	51.3' LT	715-61-352
420	-	~ NOT USED ~	-	-	-	-	-
421	B-3	176+84.53	15'	84	40'	51.8' LT	715-61-352
422	-	~ NOT USED ~	-	-	-	-	-
423	B-3	176+84.53	15'	84	40'	51.8' LT	715-61-352

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By	Appd	YYYY.MM.DD	Issued

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
POLE DATA

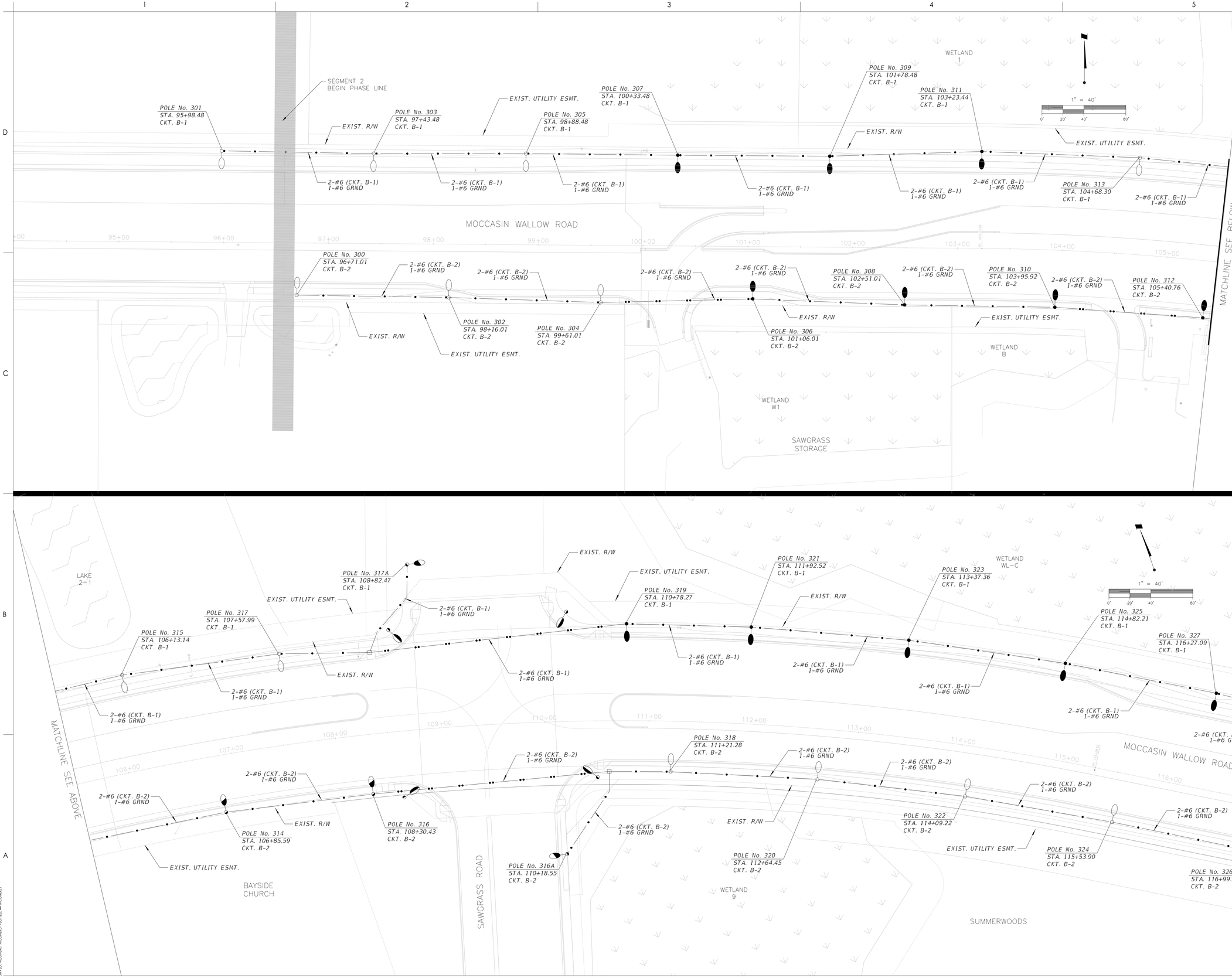
Revision:

Sheet: 90 of 117

Drawing No.
90

mcelroh.mcconelly
SAVED: MCCONNEY, MCCONNEY PLOTTED: — MCCONNEY

ORIGINAL SHEET - ARCH D



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Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

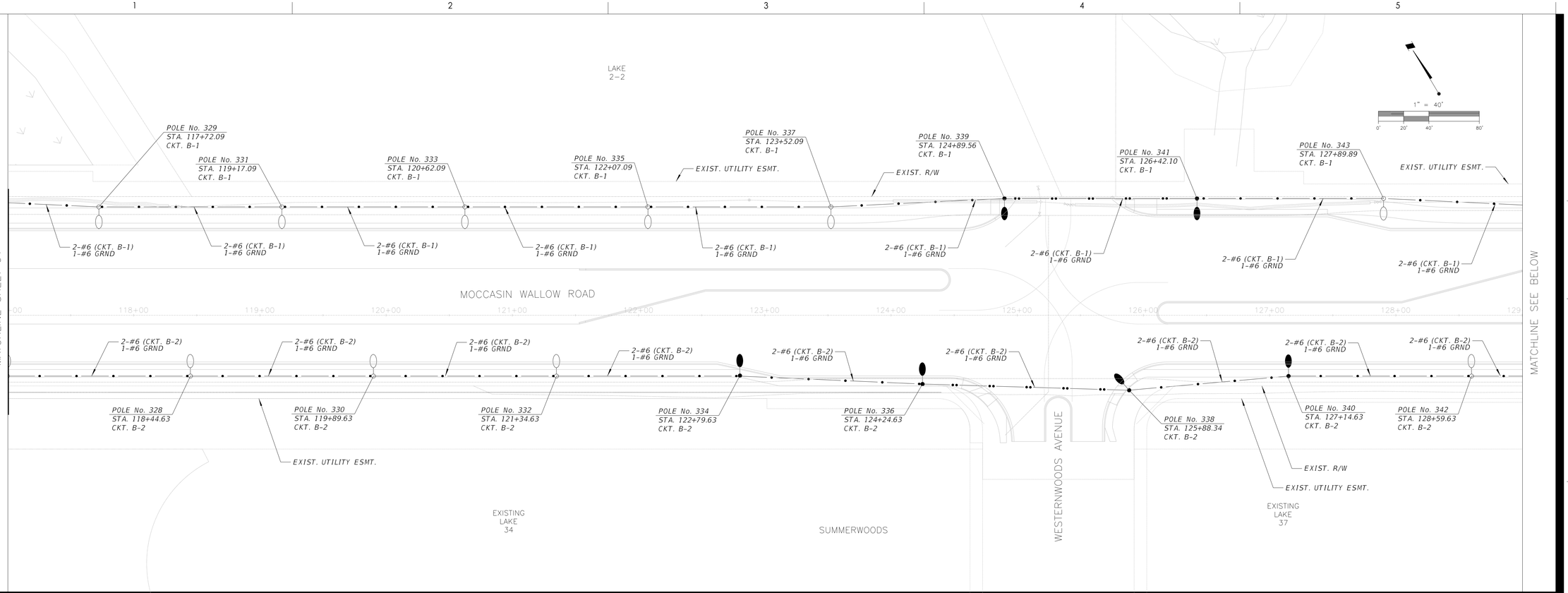
Project No.: 215617221
File Name: 215617221-01C-T801
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
LIGHTING PLAN

Revision: Sheet: 91 of 117
Drawing No.
91

ORIGINAL SHEET - ARCH D



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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-TB01

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
LIGHTING PLAN

Revision: Sheet: 92 of 117

Drawing No.
92

model:mcconelly
SAVED: MCCONELY | MCCONELY PLOTTED: --- MCCONELY

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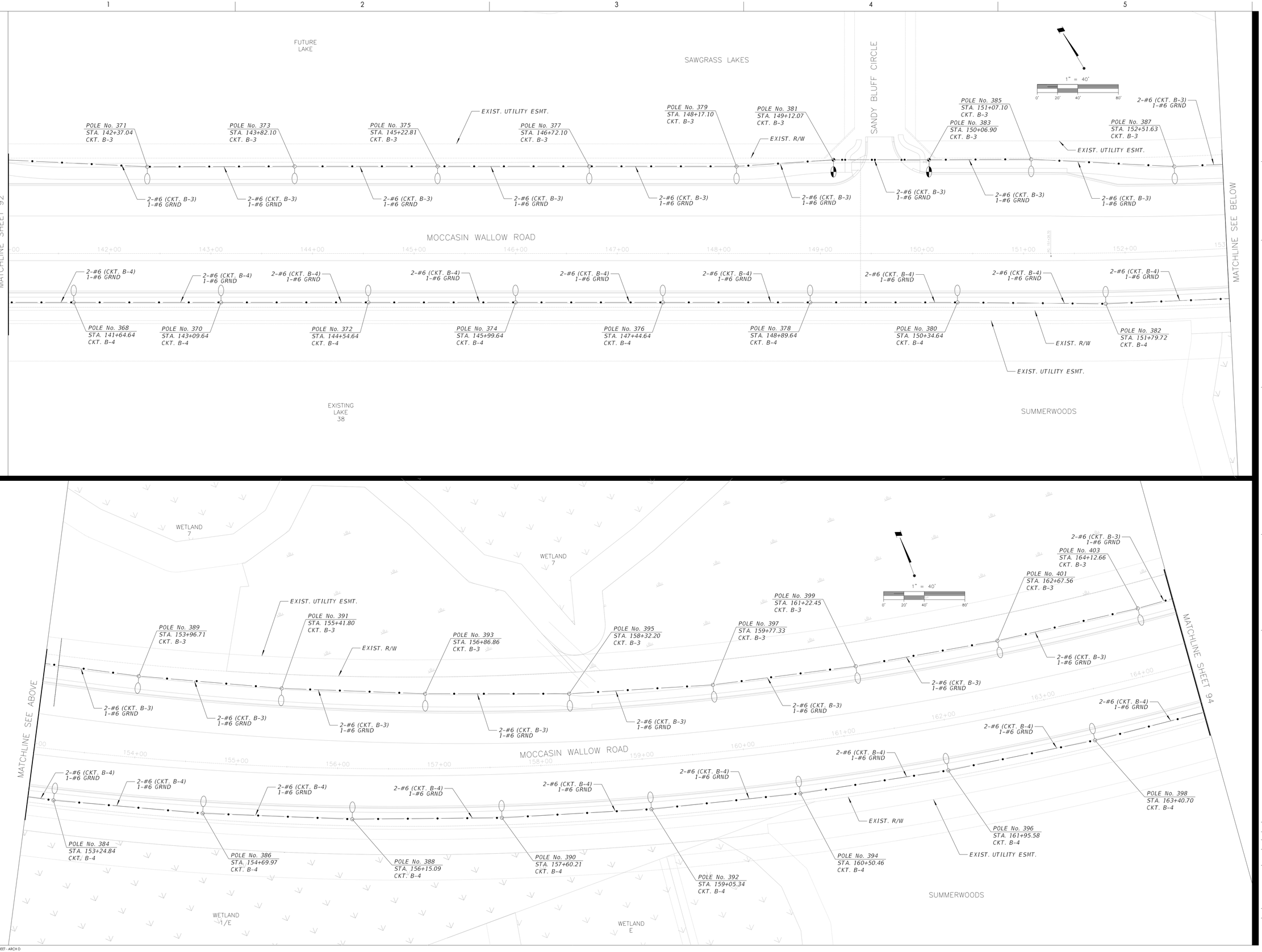

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
LIGHTING PLAN

Revision: Sheet: 93 of 117
Drawing No.
93

model\mcconerly
SAVED: MCCONERLY MCCONERLY PLOTTED: — MCCONERLY
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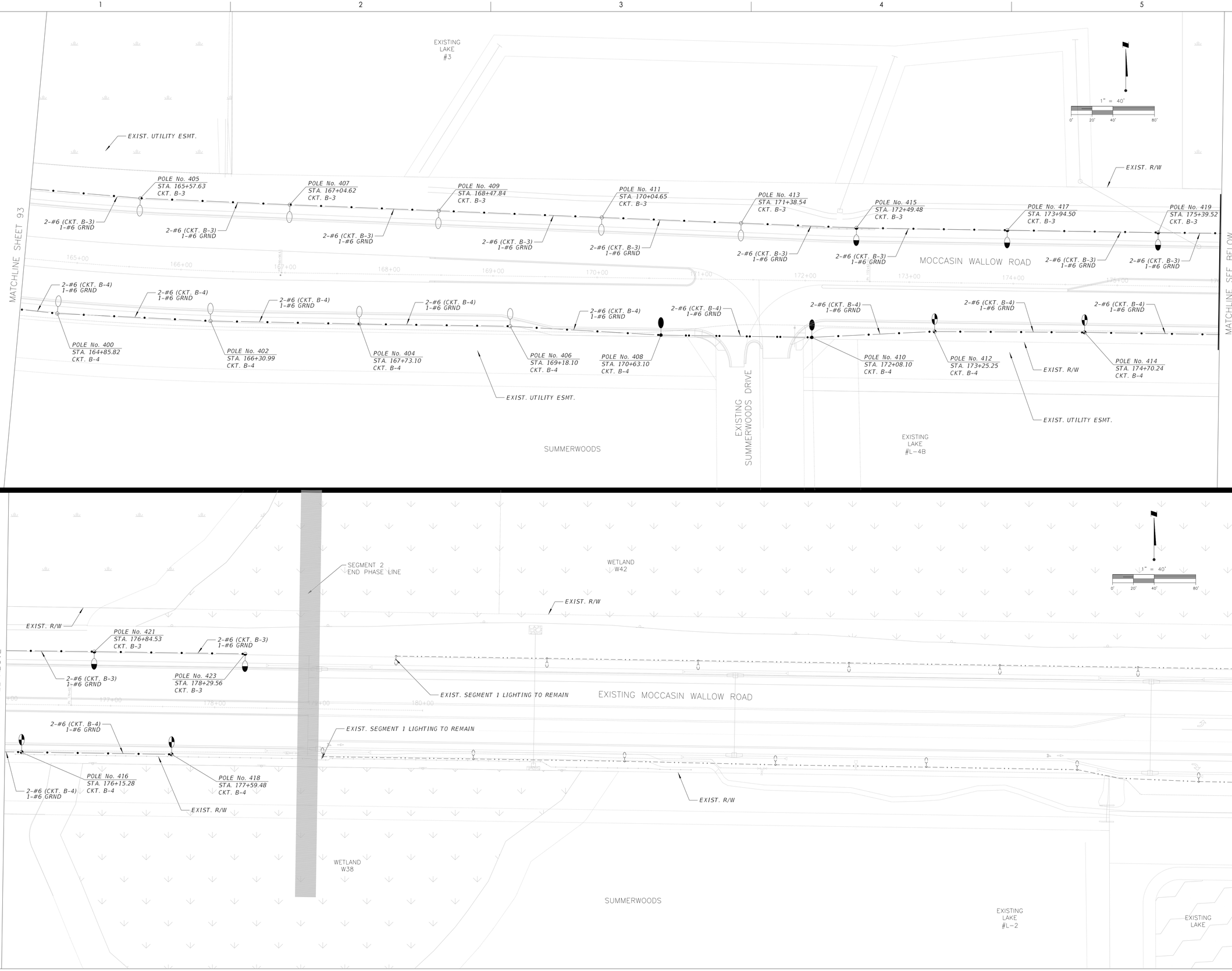

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01
Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
LIGHTING PLAN

Revision: Sheet: 94 of 117
Drawing No.
94

model\mconerly
SAVED: MCONERLY MCONERLY PLOTTED: — MCONERLY
ORIGINAL SHEET - ARCH D

PANEL SCHEDULE B					
NEMA-4X SST: 10,3W, 240/480V (2P - 100A Main Ckt. Breaker)					
CKT.	SERVING	KVA	AMPS	CKT. BKR.	WIRE/ CONDUCT
B-1	LIGHTING	2.90	6.05	2P/ 40	(2) - 6 AWG. (1) - 6 AWG.
B-2	LIGHTING	2.97	6.19	2P/ 40	(2) - 6 AWG. (1) - 6 AWG.
B-3	LIGHTING	2.34	4.88	2P/ 40	(2) - 6 AWG. (1) - 6 AWG.
B-4	LIGHTING	1.93	4.03	2P/ 40	(2) - 6 AWG. (1) - 6 AWG.

DEMAND LOAD ANALYSIS
BASED ON 240V/480V,10,3W

CONTINUOUS LOAD = 10.15 KVA
25% CONT. LOAD = 2.54 KVA
TOTAL = 12.69 KVA

TOTAL DEMAND LOAD:

$$AMP = \frac{KVA}{KV} = \frac{12.69\ KVA}{0.480\ KV} = 26\ AMPS$$

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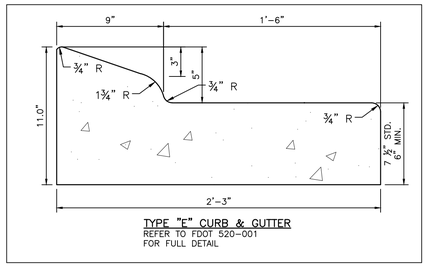
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-TB01
Scale:
Drawn | Dsgn. | Chkd. | 02/2022 YYYY.MM.DD

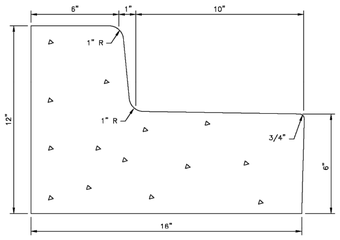
Title
PANEL SCHEDULE

Revision: Sheet: 95 of 117
Drawing No.
95

ORIGINAL SHEET - ARCH D



TYPE "E" CURB & GUTTER
REFER TO FDOT 520-001
FOR FULL DETAIL



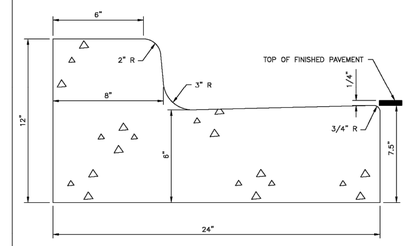
TYPE AB
MODIFIED CURB & GUTTER

NOTES:

A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.

B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			TYPE AB MODIFIED CURB & GUTTER	201.3
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



TYPE F
CURB & GUTTER

NOTES:

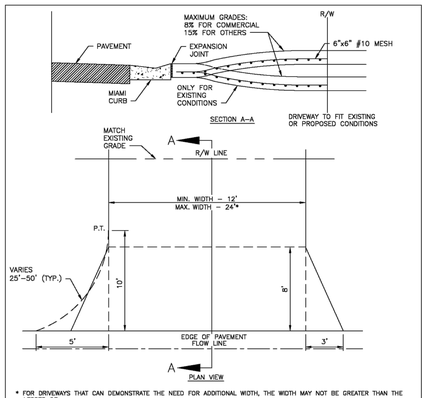
A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.

B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			TYPE F CURB & GUTTER	201.2
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

CURB NOTES:

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



* 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 RIGHT-OF-WAY LINE.
B) 30% OF THE FRONT FOOTAGE AS DEFINED ON THE SURVEY (OR FIELD MEASUREMENTS, 36' MAX).

NOTES:

A. DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED.

B. DRIVEWAY SHALL BE 6" REINFORCED CONCRETE (3000 PSI AT 28 DAYS) WITH 6"x6" #10 WIRE MESH FROM BACK OF CURB TO RIGHT-OF-WAY LINE.

C. MAINTAIN EXISTING DRAINAGE FLOWLINE.

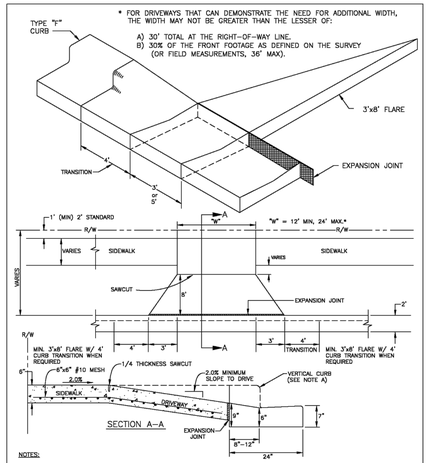
D. USE 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE F CURB TO MIAMI CURB). SEE DETAIL 101.4. NO CHANGE WITH 3' VALLEY CROSSINGS.

E. EXPANSION JOINT SHALL BE 1/2" PREFORMED JOINT FILLER OR APPROVED ALTERNATE.

F. SAWCUT (1/4" THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

G. LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			URBAN DRIVES	101.3
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



NOTES:

A. IF EXISTING CURB, REMOVE AND REPLACE WITH MIAMI CURB AND GUTTER. NO CHANGE WITH 3' VALLEY CROSSING.

B. IF EXISTING SIDEWALK, REMOVE AND REPLACE WITH 6" CONCRETE (3000 PSI AT 28 DAYS), WITH 6"x6" #10 MESH.

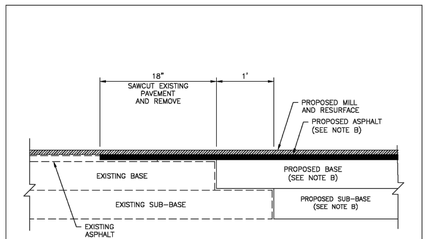
C. DRIVEWAY SHALL BE 6" CONCRETE (3000 PSI AT 28 DAYS) WITH 6"x6" #10 MESH.

D. EXPANSION JOINT SHALL BE 1/2" PREFORMED JOINT FILLER OR APPROVED ALTERNATE.

E. A MINIMUM 5' WIDE SIDEWALK IS REQUIRED ON LOCAL STREETS AND THOROUGHFARES. MIXED USE PATHS MAY REQUIRE 8'-12' WIDE 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 PUBLIC WORKS DEPARTMENT			CURB CUT & TRANSITION W/ T-FLARE FOR RESIDENTIAL DRIVES	101.4
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



NOT TO SCALE

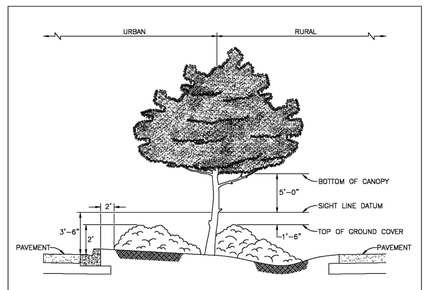
NOTES:

A. LIMITS OF MILL AND RESURFACE – EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.

B. ASPHALT, BASE, AND SUB-BASE SHALL MATCH EXISTING THICKNESS OR THE APPLICABLE COUNTY STANDARD TYPICAL SECTION, WHICHEVER IS GREATER.

C. SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			ROAD CONNECTION DETAIL	403.3
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



THE INTENT OF THIS STANDARD IS TO PROVIDE A WINDOW WITH VERTICAL DATUM, AND HORIZONTAL LIMITS DEFINED BY THE LIMITS OF CLEAR SIGHT.

SIGHT WINDOW DETAIL

NOTES:

A. THE INTERSECTION SIGHT WINDOW DIMENSIONS ARE BASED ON THE "SIGHT DATUM LINE" WHICH IS A STRAIGHT HORIZONTAL LINE FROM THE DRIVER'S EYE IN A CAR ON A SIDE STREET AT AN INTERSECTION TO THE EYE OF A DRIVER ON THE APPROACHING LANE.

B. IN THE CONDITION WHERE THE "SIGHT DATUM LINE" IS LEVEL (EQUAL HEIGHT TO BOTH DRIVERS), THE MINIMUM DISTANCES FOR THE CLEAR ARE ARE:

(1) 1.5 FEET ABOVE THE TOP OF VEGETATION OR 3.5 FEET ABOVE PARALLEL (THIS MEANS THE LOWER VEGETATION MUST BE MAINTAINED AT A HEIGHT OF NO MORE THAN 2 FEET)

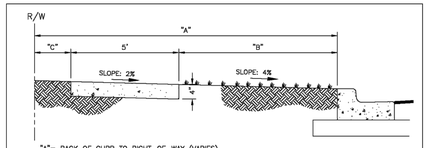
(2) 5.0 FEET BELOW THE BOTTOM OF A TREE CANOPY OR 8.5 FEET ABOVE PARALLEL GROUND.

C. IN THE CONDITION WHERE THE MEDIAN IS RAISED, THE MINIMUM CLEARANCE IS RAISED EQUALLY FOR THE LOWER VEGETATION AND AND LOWERED EQUALLY FOR TREE CANOPIES; THIS IS REVERSED FOR SWALED OR DEPRESSED MEDIANS.

D. TREE STEM AND BRANCHES ARE ALLOWED IN THE SIGHT WINDOW, BUT ALL FOLIAGE MUST BE REMOVED AND THE SIGHT WINDOW MAINTAINED FREE OF SIGHT BLOCKAGE. ALL DEAD PALM BRANCHES MUST BE REMOVED.

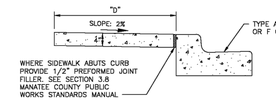
E. THE TRUNKS OF TREES IN THE SIGHT WINDOW IN MEDIANS AND ROADSIDES MUST NOT BLOCK MORE THAN 50% OF A DRIVER'S VIEW IN ANY DIRECTION. THIS CONDITION MAY REQUIRE INCREASED SPACING OF TREES OR FEWER TREES.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			SIGHT WINDOW DETAIL	500.4
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



"A"= BACK OF CURB TO RIGHT-OF-WAY (VARIES)
"B"= UNPAVED AREA (VARIES)
"C"= VARIES, SEE DETAILS 401.1-401.10

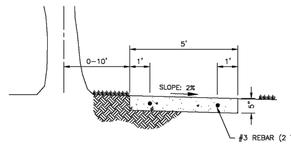
TYPICAL SIDEWALK LOCATION



"D"= SIDEWALK WIDTH SHALL BE 6' STANDARD, WHERE SIDEWALK ABUTS TYPE AB, D, OR F CURB.

SEE SECTION 3.8 SIDEWALKS, MANATEE COUNTY PUBLIC WORKS STANDARDS MANUAL, FOR FURTHER INFORMATION.

ALTERNATE SIDEWALK LOCATION



SIDEWALK LOCATION CLOSE TO TREES

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			SIDEWALK REQUIREMENTS	301.0
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

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By	Appd	YYYY.MM.DD	Issued

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-501PD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING AND GRADING DETAILS

Revision: Sheet: 96 of 126

Drawing No.
96

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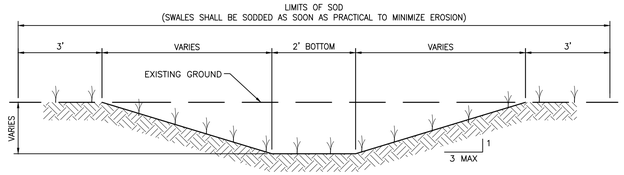
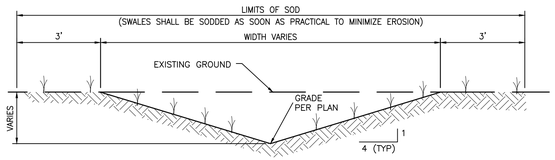


CONVEYANCE SWALE
N.T.S.



TYPICAL SWALE SECTION
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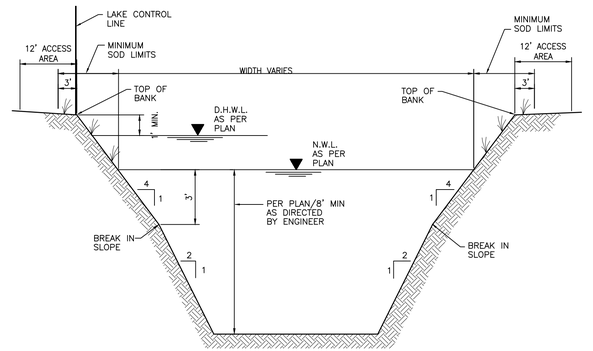
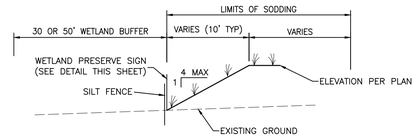


TYPICAL LAKE SECTION
N.T.S.

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
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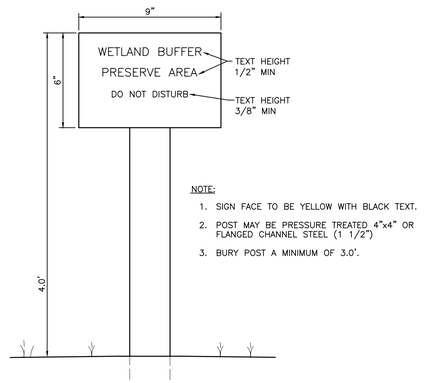

NOTE:
1. SIGN FACE TO BE YELLOW WITH BLACK TEXT.
2. POST MAY BE PRESSURE TREATED 4"x4" OR FLANGED CHANNEL STEEL (1 1/2")
3. BURY POST A MINIMUM OF 3.0'.

TYPICAL WETLAND BUFFER SIGN DETAIL
NTS

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No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-501PD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
PAVING AND GRADING DETAILS

Revision: Sheet: 97 of 126

Drawing No.
97

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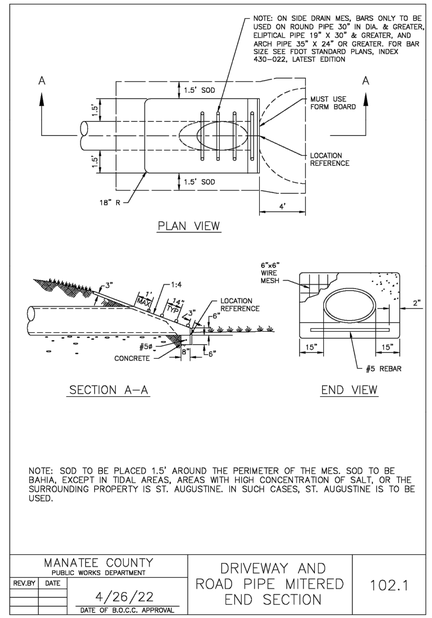


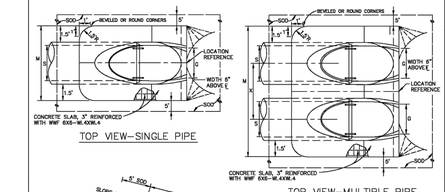
NOTE: SOD TO BE PLACED 1.5' AROUND THE PERIMETER OF THE MES. SOD TO BE BAHIA, EXCEPT IN TIDAL AREAS, AREAS WITH HIGH CONCENTRATION OF SALT, OR THE SURROUNDING PROPERTY IS ST. AUGUSTINE. IN SUCH CASES, ST. AUGUSTINE IS TO BE USED.

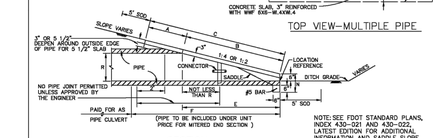
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			DRIVEWAY AND ROAD PIPE MITERED END SECTION	102.1
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

ELIPTICAL PIPE

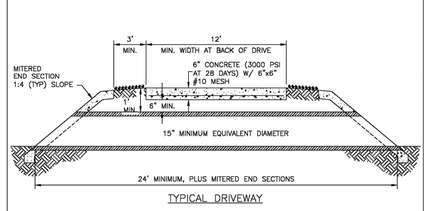
DIMENSIONS & QUANTITIES

	RISE R	SPAN S	X	A	B	C	E	F	G	M SINGLE PIPE	M DOUBLE PIPE	M TRIPLE PIPE	M QUAD. PIPE
2:1 SLOPE	13"	18"	1'-10"	1.83'	1.62'	3.59'	1.58'	4"	1.50'	4.92'	7.70'	10.58'	13.42'
	14"	23"	2'-4"	2.01'	1.69'	4.00'	1.89'	5"	1.90'	5.38'	8.71'	12.04'	15.38'
	19"	30"	4'-0"	2.11'	2.92'	5.03'	2.73'	6"	2.37'	6.04'	10.04'	14.04'	18.04'
	24"	38"	5'-0"	2.25'	3.85'	6.05'	3.58'	7"	2.83'	6.79'	11.79'	16.79'	21.79'
	29"	45"	5'-11"	2.35'	4.79'	7.13'	4.39'	8"	3.18'	7.50'	13.45'	19.33'	25.20'
	34"	53"	7'-0"	2.43'	5.72'	8.13'	5.22'	9"	3.57'	8.22'	15.03'	22.22'	29.22'
	38"	60"	7'-10"	2.52'	6.46'	8.98'	5.89'	9"	3.93'	8.92'	16.70'	24.58'	32.42'
	43"	68"	8'-11"	2.62'	7.39'	10.01'	6.73'	10"	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	2.71'	8.33'	11.04'	7.58'	11"	4.59'	10.42'	20.33'	30.25'	40.17'
	53"	83"	10'-8"	2.80'	9.26'	12.06'	8.39'	12"	4.77'	11.08'	21.70'	32.42'	43.08'
	58"	91"	11'-8"	2.90'	10.19'	13.09'	9.23'	13"	5.01'	11.83'	23.50'	35.17'	46.83'
4:1 SLOPE	13"	18"	2'-10"	2.36'	3.06'	5.49'	3.03'	5"	1.50'	4.92'	7.70'	10.58'	13.42'
	14"	23"	3'-4"	2.44'	3.73'	6.15'	3.70'	6"	1.90'	5.38'	8.71'	12.04'	15.38'
	19"	30"	4'-0"	2.62'	5.47'	8.09'	5.36'	8"	2.37'	6.04'	10.04'	14.04'	18.04'
	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10"	2.83'	6.79'	11.79'	16.79'	21.79'
	29"	45"	5'-11"	3.05'	8.80'	11.85'	8.70'	12"	3.18'	7.50'	13.45'	19.33'	25.20'
	34"	53"	7'-0"	3.22'	10.62'	13.84'	10.36'	13"	3.57'	8.22'	15.03'	22.22'	29.22'
	38"	60"	7'-10"	3.39'	11.69'	15.38'	11.70'	15"	3.93'	8.92'	16.70'	24.58'	32.42'
	43"	68"	8'-11"	3.58'	13.71'	17.27'	13.38'	17"	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	3.73'	15.43'	18.18'	15.02'	19"	4.59'	10.42'	20.33'	30.25'	40.17'
	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20"	4.77'	11.08'	21.70'	32.42'	43.08'
	58"	91"	11'-8"	4.08'	18.87'	22.93'	18.36'	22"	5.01'	11.83'	23.50'	35.17'	46.83'





MANATEE COUNTY PUBLIC WORKS DEPARTMENT			MITERED END SECTION FOR ELLIPTICAL, SINGLE AND MULTIPLE PIPES	102.2
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



VARIABLES:

- CORRUGATED METAL PIPE WILL NOT BE ALLOWED WITHIN THE RIGHT-OF-WAY.
- REINFORCED CONCRETE PIPE (RCP) WILL REQUIRE A MINIMUM 6" OF COVER BENEATH BOTTOM OF DRIVEWAY, FOR A TOTAL OF 1' OF COVER.
- HIGH DENSITY POLYETHYLENE (HDPE) AND HIGH PERFORMANCE POLYPROPYLENE (HP) PIPE ARE ACCEPTABLE IN LIEU OF RCP. COVER SHALL MEET FDOT REQUIREMENTS.

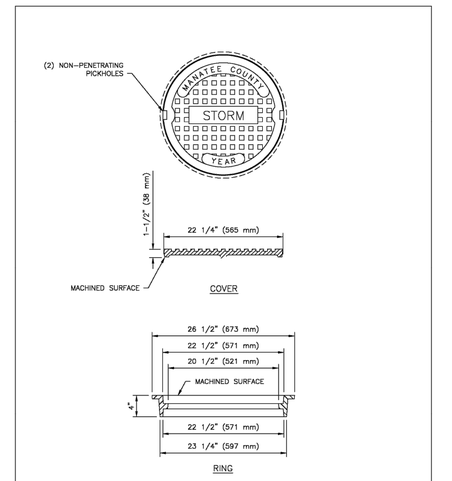
NOTES:

A. GRADES AND LOCATIONS MUST BE REVIEWED AND APPROVED BY THE DRIVEWAY INSPECTOR FOR ALL PIPE INSTALLATIONS.

B. ACTUAL REQUIRED PIPE DIAMETER WILL BE BASED ON THE FLOW RATE REQUIRED TO PASS THROUGH PIPE SO AS NOT TO IMPOUND WATER UPSTREAM.

C. PIPE SIZE TO BE DETERMINED AND APPROVED BY MANATEE COUNTY.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			TYPICAL DRIVEWAY PIPE CROSS SECTION	102.0
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

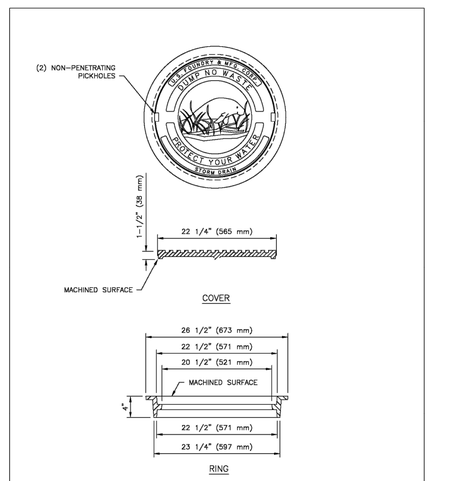


NOTES:

A. USF 1110, M306 RATED RING AND COVER.

B. MATERIAL: ASTM-A48 CLASS 35B GRAY IRON.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			ACCESS COVER FOR STORMWATER JUNCTION BOX (PUBLIC)	203.1
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

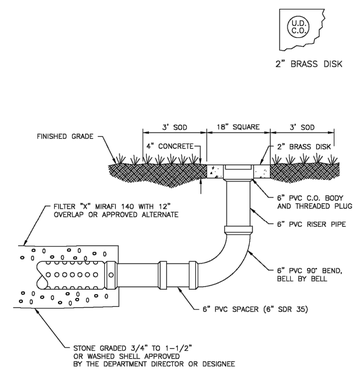


NOTES:

A. USF 1110, M306 RATED RING AND COVER.

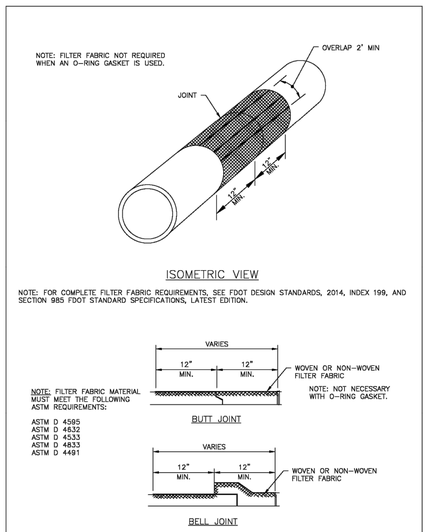
B. MATERIAL: ASTM-A48 CLASS 35B GRAY IRON.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			ACCESS COVER FOR CATCH BASIN AND THROAT INLET (PUBLIC)	203.2
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



UNDERDRAIN CLEAN-OUT
MAXIMUM SPACING EVERY 100 FEET.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			UNDERDRAIN CLEAN-OUTS	204.1
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		



MANATEE COUNTY PUBLIC WORKS DEPARTMENT			FILTER FABRIC JACKET	103.0
REV.BY	DATE	4/26/22 DATE OF B.O.C.C. APPROVAL		

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Consultant

No.	Issued / Revision	By	Appd	YYYY.MM.DD
B.	REMOVE EW DETAIL	MSC		5/9/24

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-511DD

Scale:

Drawn | Dsgn. | Chkd. | 02/2022 YYYY.MM.DD

Title
DRAINAGE DETAILS

Revision: Sheet: 98 of 126

Drawing No.
98

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SAVED: 5/9/2024 3:36:24 PM ACCADMET PLOTTED: 5/9/2024 9:20:16 AM MSC
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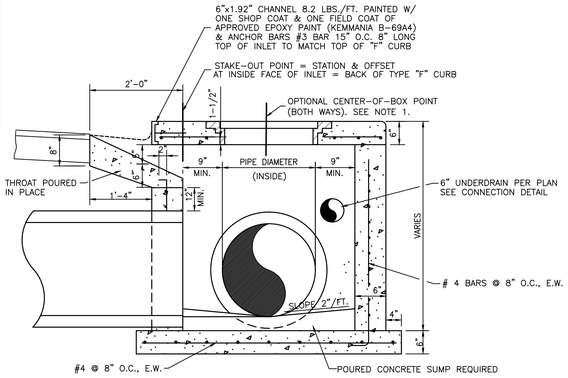
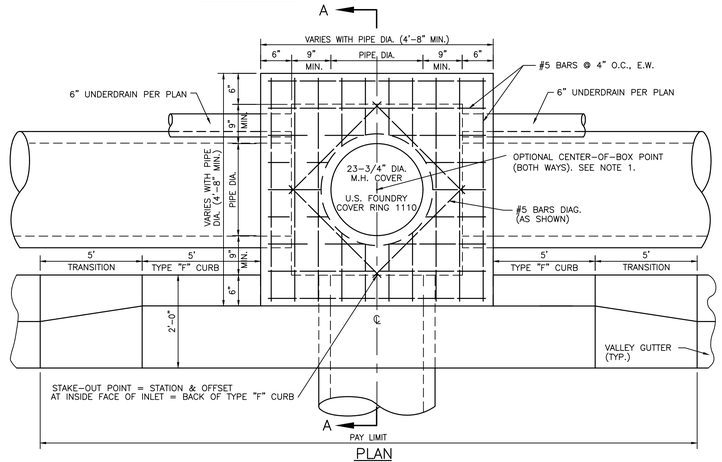


SECTION A–A

U.S.F. 1110 FRAME & COVER OR APPROVED EQUAL

MANHOLE COVER



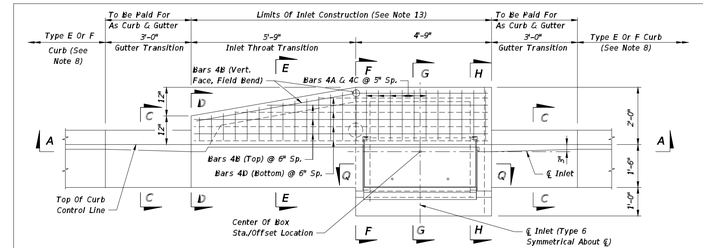
PLAN

NOTES:

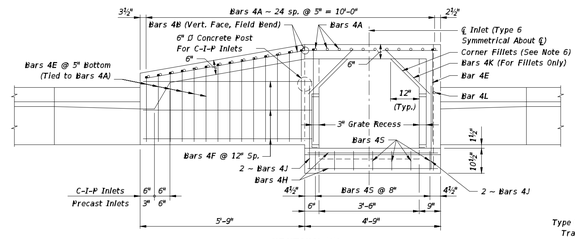
1. CENTER OF STRUCTURE, BOTH WAYS, MAY BE ADDITIONALLY STAKED AT THE REQUEST OF THE CONTRACTOR OR AT THE DESCRETION OF THE SURVEYOR FOR THE PURPOSE OF PIPE ALIGNMENT.

STANDARD THROAT INLET DETAIL

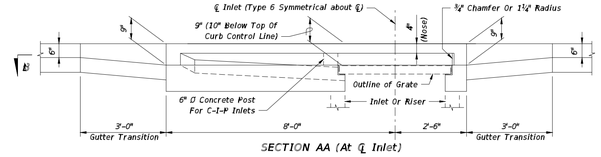
(MANATEE)
S-D021(12/08/05)
N.T.S.



TOP VIEW

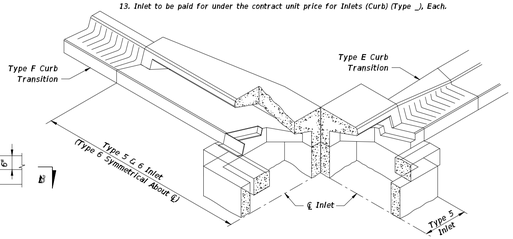


SECTION BB



SECTION AA (At ℄ Inlet)

INLET TYPE 5 (Curb Inlet Type 6 Symmetrical With Left Half)

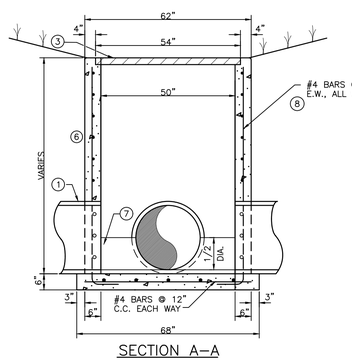


SKETCH SHOWING FRAME SEAT AND THROAT RECESS

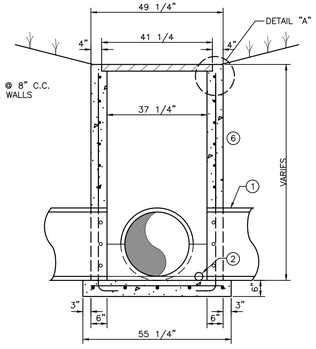
GENERAL NOTES

1. The finished grade and slope of the inlet tops are to conform with the finished cross slope and grade of the proposed sidewalk and/or border.
2. For inlets constructed on a curve, refer to the plans to determine the radius, and modify the inlet details accordingly. Bend steel when necessary.
3. All reinforcing steel to be Grade 60 bars with 1¼" minimum cover unless otherwise shown, see Sheet 4 for equivalent area Welded Wire Reinforcement details.
4. Inlet tops shall be either cast-in-place or precast concrete. Precast units shall conform to the dimensions shown or in accordance with approved shop drawings. Request for shop drawing approval shall be directed to the State Drainage Engineer.
5. Concrete meeting the requirements of ASTM C478 (4,000 psi) may be used in lieu of Class II concrete for precast units, manufactured in plants which meet the requirements of Section 449 of the Specifications.
6. Corner fillets are required at inlet opening for precast units or C-I-P units used in conjunction with circular inlet bottoms or skewed rectangular inlet boxes. Finish top of fillets flush with drain throat bottom and match slope.
7. For inlet bottoms see Index 425-010. Inlet tops are to be used with Type P bottoms, or Type J bottoms with 3'-0" square (Type B), 3'-6" or 4' round (Type A) risers or top slab openings.
8. These inlet tops are designed for use with standard curb and gutter Type E and Type F. Locate inlet outside of pedestrian crosswalks. For Type E curb, transition the shape of the curb over the gutter transition length to match the face of the inlet (Type F).
9. See Index 425-001 for supplemental details.
10. All steel used for frame and grate shall meet the requirements of ASTM A36/A36M.
11. Either cast iron grates or steel grates may be used.
12. When Alternate "G" grate is specified in the plans either the cast iron grate and galvanized steel frame or the the galvanized steel grate and frame must be used. Grates are to be grouted in accordance with the grouting detail shown on Sheet 5, in lieu of tack welding.
13. Inlet to be paid for under the contract unit price for Inlets (Curb) (Type _), Each.

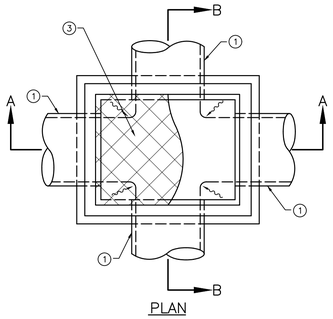
LAST REVISION	DESCRIPTION:	FY 2020-21 STANDARD PLANS	CURB INLET TOPS TYPES 5 AND 6	INDEX	SHEET
11/01/17	REVISION			425-021	1 of 5



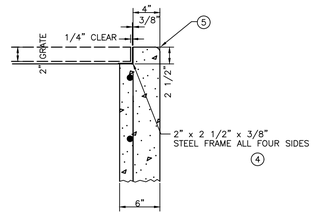
SECTION A–A



SECTION B–B



PLAN



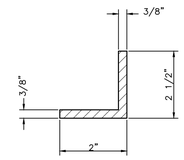
DETAIL "A"

TYPE "G" INLET

S-D009(02/27/02)
N.T.S.

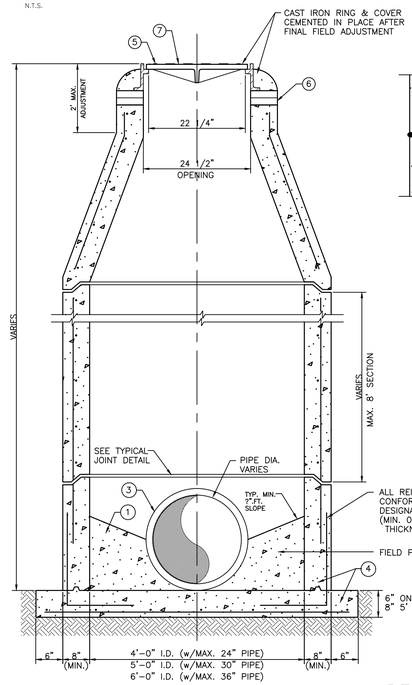
NOTES:

1. SEE STORM PIPING PLAN DRAWINGS FOR PIPE SIZE, ALIGNMENT, FLOWLINE AND GRATE ELEVATIONS
2. ALL INLETS SHALL HAVE 3" DIA. HOLE AT THE BOTTOM OF THE BOX CLEAR OF THE PIPE CONSTRUCTION, TO BE PLUGGED WHEN CONCRETE INVERT FORMED.
3. U.S.F. GRATE NO. 6615 (STEEL 40" x 52 11/16" x 2")
4. 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.
5. 3/4" CHAMFER ALL EXPOSED EDGES.
6. 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT.
7. POURED CONCRETE INVERT AFTER INLET AND PIPE PLACED IN GROUND, 3000 PSI @ 28 DAYS.
8. REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO ASTM A-615-76A. ALL STEEL SHALL BE 1 1/2" CLEAR UNLESS OTHERWISE NOTED.



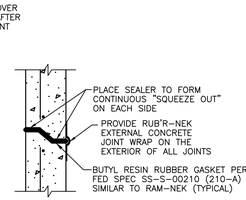
2" x 2 1/2" x 3/8" THICK STEEL FRAME, ALL FOUR SIDES.

ANGLE FRAME DETAIL



STORM MANHOLE DEEP – 5' OR GREATER

S-D023
N.T.S.



TYPICAL JOINT DETAIL

NOTES

1. POURED CONCRETE INVERT AFTER INLET & PIPE ARE PLACED IN GROUND, 3,000 P.S.I. CONCRETE @ 28 DAYS.
2. SEE PLAN & PROFILE DRAWINGS FOR PIPE SIZE & ALIGNMENT.
3. ALL INLETS & STORM MANHOLES SHALL HAVE A 3" DIAMETER HOLE AT THE BOTTOM OF THE BOX, CLEAR OF PIPE CONSTRUCTION & TO BE PLUGGED WHEN CONCRETE INVERT IS FORMED. (N.I.C.)
4. MANHOLE WALLS & BOTTOM SLAB SHALL BE REINFORCED CLASS "A" CONCRETE POURED IN PLACE OR APPROVED PRECAST BOXES. (CONTRACTOR SHALL SUBMIT SHOP DWGS. FOR PRECAST BOXES. WALL REINFORCING SHALL CONFORM WITH A.S.T.M. C-478, LATEST REVISION. CONCRETE SHALL BE 3,000 P.S.I. @ 28 DAYS.)
5. MANHOLE FRAMES & LIDS SHALL BE ADJUSTED TO CONFORM WITH FINISHED SURFACES. ALL ADJUSTMENTS SHALL BE INCLUDED IN PRICE BID. NO ADDITIONAL COMPENSATION WILL BE MADE BY THE OWNER. MANHOLES IN GRASSED AREAS SHALL BE 0.1' ABOVE FINISHED GROUND.
6. 4" MASONRY BRICKS SHALL BE USED TO BRING MANHOLE COVER TO REQUIRED GRADE, IF NECESSARY.
7. MANHOLE RING & COVER NO. 170-J U.S.F. TRAFFIC BEARING TYPE, NON-SKID SURFACE.

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No.	By	Appd	YYYY.MM.DD	Revision
1	BSM	AM	2019.10.15	Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-S11DD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DRAINAGE DETAILS

Revision: Sheet: 99 of 126

Drawing No.
99

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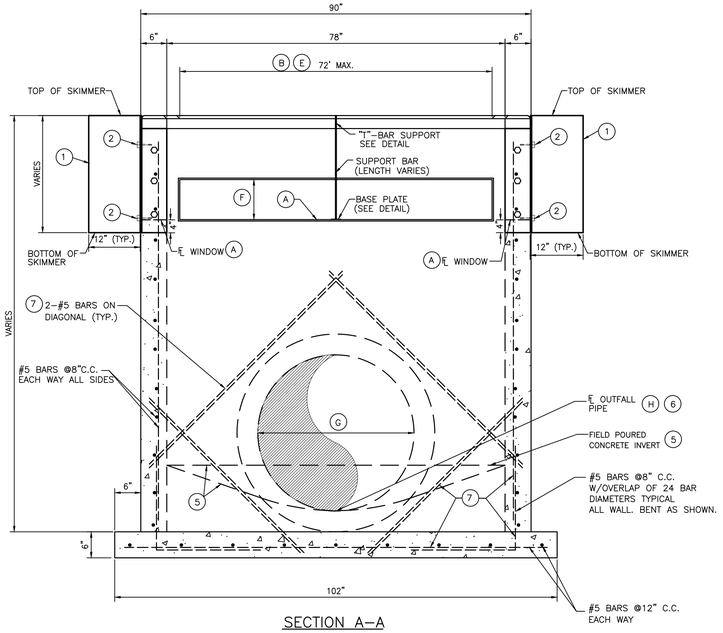
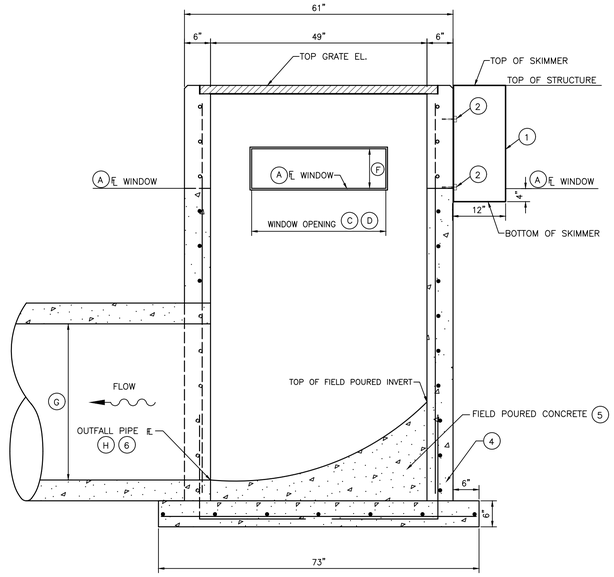
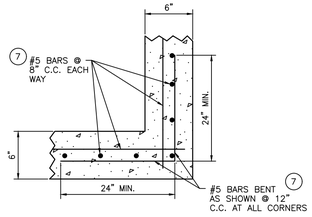


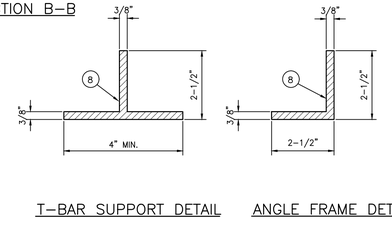
SECTION A–A



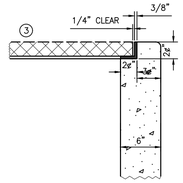
SECTION B–B



WALL CORNER REINFORCEMENT DETAIL



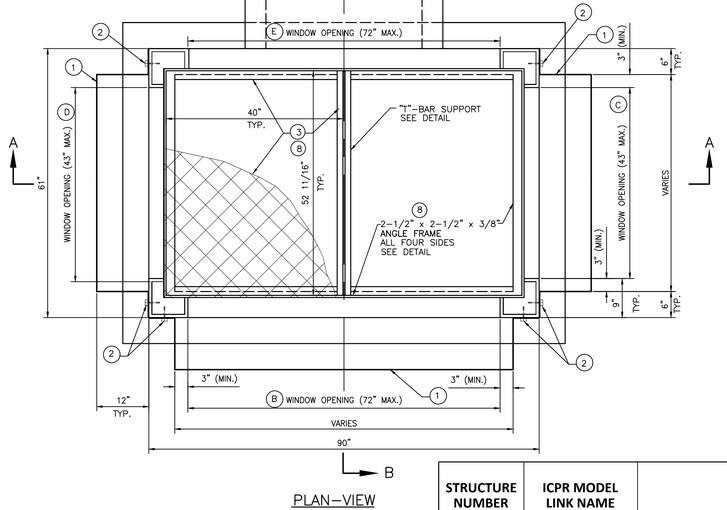
T–BAR SUPPORT DETAIL ANGLE FRAME DETAIL



GRATE SUPPORT DETAIL

NOTES:

1. 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.
2. 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.
3. U.S.F. GRATE #6615 (40" x 52–11/16" x 2") (2 REQUIRED).
4. 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT, UNLESS DESIGNATED OTHERWISE.
5. FIELD POURED CONCRETE INVERT AFTER INLET AND PIPE ARE PLACED IN GROUND, 3000 PSI CONCRETE @ 28 DAYS.
6. SEE STORMWATER PLAN TO VERIFY PIPE SIZE AND ALIGNMENT.
7. 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.
8. 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.
9. BENCH MARK REQUIRED TO BE SET ON STRUCTURE AFTER CONSTRUCTION IS COMPLETE. ELEVATION TO BE NOTED IN RECORD DRAWINGS.
10. 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.
11. 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 ORFICE	WIDTH OF ORFICE (in.)	HEIGHT OF ORFICE (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-1	DS-MW-2-1	2-1	23.43	25.00	N/A	N/A	N/A	23.43	24.00	12.00	12.00	N/A	18.00	48	18.51	NO SKIMMER REQUIRED
STR #CS-7	DS-MWR-2A	N/A	N/A	27.70	N/A	N/A	N/A	24.50	30.00	9.00	9.00	N/A	20.40	60	18.50	NO SKIMMER REQUIRED
STR #CS-W38	DS_MW-2	N/A	N/A	26.60	N/A	N/A	N/A	24.60	66.00	N/A	N/A	N/A	24.00	72	17.52	NO SKIMMER REQUIRED
STR #CS-W41	DS_MW-2B	N/A	N/A	28.75	N/A	N/A	N/A	24.50	72.00	6.00	6.00	N/A	24.00	43"x 68"	17.24	NO SKIMMER REQUIRED
EX. #CS-05	EX. CS-05	POND 5 & 6	27.50	28.00	N/A	N/A	N/A	27.5	32	8	8	N/A	4	30"	24.50	MODIFYING EXISTING STRUCTURE TO HAVE RECTANGULAR WINDOW AT EXISTING ORFICE; LOWERING GRATE

DOUBLE GRATE OUTFALL CONTROL STRUCTURE DETAIL (LOW LYING SLOT)

N.T.S.

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Sarasota FL 34240-8414
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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-511DD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
DRAINAGE DETAILS

Revision: Sheet: 100 of 126

Drawing No.
100

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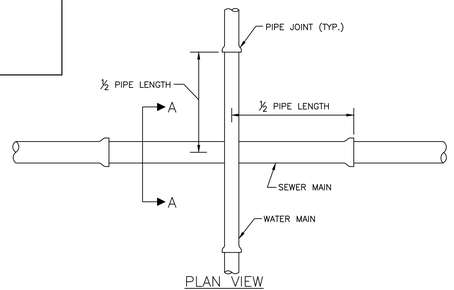
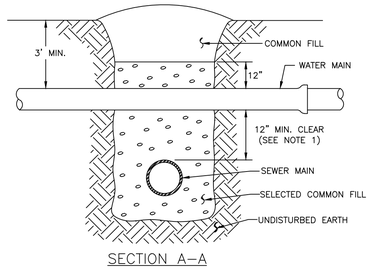
ORIGINAL SHEET - ARCH D



PLAN VIEW

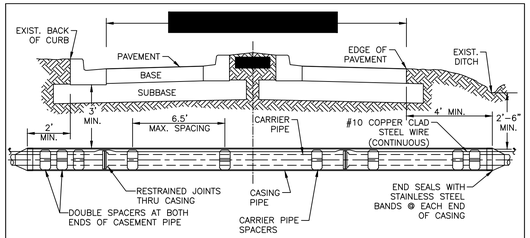


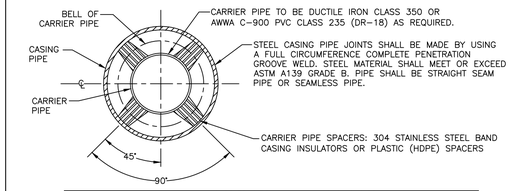
SECTION A–A

NOTES:

1. CLEARANCE MAY BE REDUCED TO 6" FOR GRAVITY SEWER WHERE WATER MAIN IS DUCTILE IRON.
2. PIPE SECTIONS SHALL BE FULL–LENGTH AND SHALL BE ADJUSTED HORIZONTALLY, SO THAT THE CROSSING IS AT EACH PIPE SECTION'S MIDPOINT REGARDLESS OF THE VERTICAL CLEARANCE.

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





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

STEEL CASING SIZES

CARRIER SIZE & MINIMUM CASING SIZE								
CARRIER	4"	6"	8"	10"	12"	16"	18"	20"
CASING	8"	12"	16"	20"	24"	30"	36"	36"

PVC/HDPE CASING SIZES

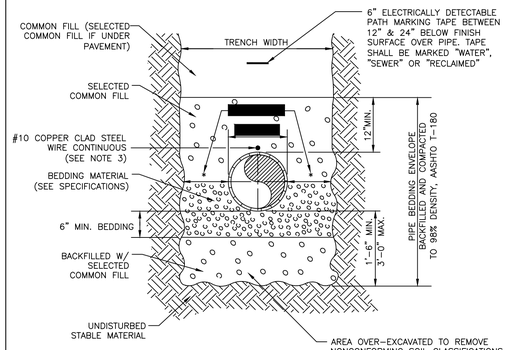
NOTES:

1. THE ENGINEER OF RECORD MAY SELECT A LARGER CASING DIAMETERS, INCREASE WALL THICKNESS, AND/OR INCREASE DEPTH OF BURY DUE TO EXTERNAL LOADS WITH COUNTY APPROVAL PRIOR TO PERFORMING THE WORK.
2. ALL PIPES CROSSINGS OF FEDERAL OR STATE ROADS; OR RAILROADS SHALL BE INSTALLED IN A CASING PIPE.
3. ALL PIPES CROSSINGS OF COUNTY LOCAL ARTERIAL AND THOROUGHFARE ROADWAYS SHALL BE IN A CASING PIPE.
4. SPLIT–STEEL CASINGS MAY BE USED ON EXISTING COUNTY MAINS ONLY.
5. FOR JACK & BORE SPECIFICATIONS UNDER STATE ROADS AND RAILROADS, REFER TO THE F.D.O.T. UTILITY ACCOMMODATION MANUAL, LATEST EDITION.
6. HDPE CASING SHALL HAVE ALL WELD BEADS REMOVED FROM THE INSIDE SURFACE SUCH THAT THE JOINT SURFACES SHALL BE SMOOTH.
7. *14–INCH DIAMETER MAINS ARE NOT TO BE INSTALLED.

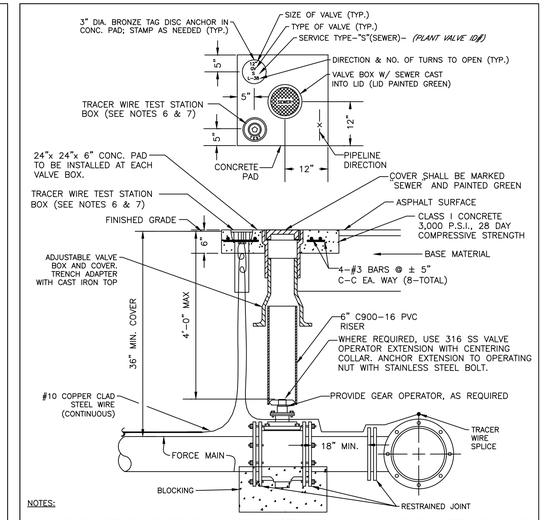
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY | DATE	February 25, 2020 DATE OF APPROVAL	CASING CROSSING	UG–3

NOTES:

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



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



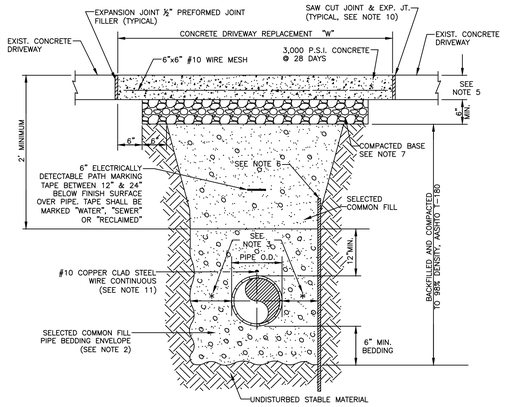
NOTES:

1. "SV" TO BE IMPRESSED INTO THE NEWLY–POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A GREEN DISC WITH "SV" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS OR GUTTERS.
4. PRECAST CONCRETE PADS AND THRUST BLOCKS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. USE NON–TRAFFIC RATED BOXES FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
7. TRACER WIRE BOX SHALL BE LOCATED OUTSIDE THE ROADWAY ON THOROUGHFARES, LOCAL ARTERIAL AND STATE ROADWAYS.
8. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID# WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
9. REFER TO SECTION 1.11 IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

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

NOTES:

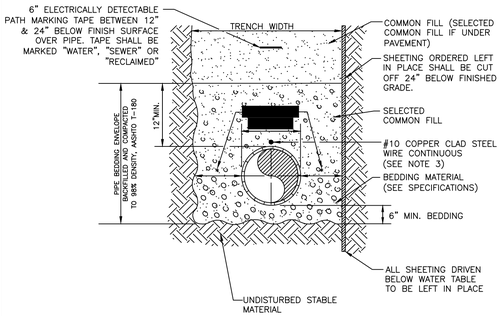
1. CONCRETE PAVEMENT SHALL BE REMOVED WITH SAWED EDGES AND CUT AT A MINIMUM DEPTH OF ONE AND ONE–HALF (1–1/2"). IF A SAW CUT IN CONCRETE PAVEMENT FALLS WITHIN THREE FEET (3') OF A CONTRACTION JOINT, COLD JOINT, EXPANSION JOINT OR EDGE, THE CONCRETE SHALL BE REMOVED TO THE JOINT OR EDGE. THE EDGES OF EXISTING CONCRETE PAVEMENT ADJACENT TO TRENCHES, WHICH HAD BEEN DAMAGED SUBSEQUENT TO SAW CUTTING OF PAVEMENT, SHALL BE SAW CUT TO NEAT STRAIGHT LINES FOR THE PURPOSE OF REMOVING THE DAMAGED PAVEMENT AREAS.
2. USE OF TYPE A–2 AND A–3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. THICKNESS TO MATCH EXISTING OR BE 6" MINIMUM, WHICHEVER IS GREATER.
6. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISH GRADE OR 12" BELOW SUBGRADE.
7. BASE SHALL BE COMPACTED 6" MINIMUM THICKNESS OF APPROVED MATERIAL.
8. DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST ADOPTED CONSTRUCTION STANDARDS OF THE MANATEE COUNTY TRANSPORTATION DEPARTMENT.
9. IF THE DRIVEWAY IS 12' OR WIDER, SAWCUT AN EXPANSION JOINT ALONG THE CENTER OF THE DRIVEWAY (3/8" WIDE AND 1½" DEEP) AFTER THE CONCRETE HAS SET.
10. IF THERE IS AN EXISTING EXPANSION JOINT WITHIN 3' OF THE PROPOSED JOINT, EXTEND DRIVEWAY REPLACEMENT TO THE EXISTING JOINT.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



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

NOTES:

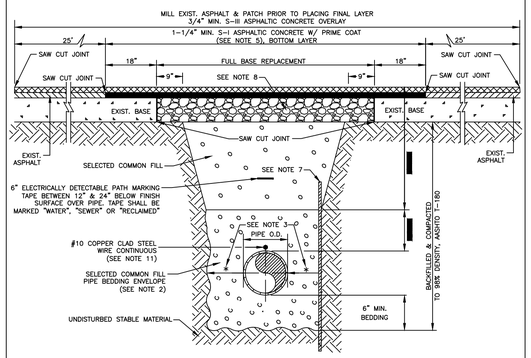
1. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
2. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.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



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

NOTES:

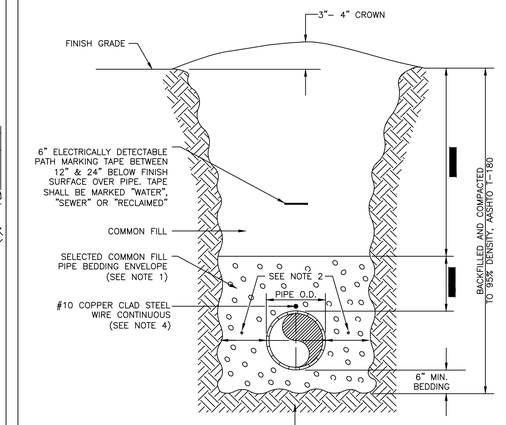
1. BITUMINOUS PAVEMENT SHALL BE REMOVED IN CLEAN STRAIGHT LINES BY SAW CUTTING. WHERE BITUMINOUS PAVEMENT ADJOINS A TRENCH, THE EDGES ADJACENT TO THE TRENCH SHALL BE TRIMMED TO A NEAT STRAIGHT LINES BEFORE RESURFACING TO ENSURE THAT ALL AREAS TO BE RESURFACED ARE ACCESSIBLE TO ROLLERS OR TAMPERS USED TO COMPACT THE SUB–GRADE OR PAVING MATERIALS.
2. USE OF TYPE A–2 AND A–3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
3. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
4. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. ASPHALTIC CONCRETE STRUCTURE COURSE WITH PRIME COAT SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF 1–1/4 INCH S–I, WHICHEVER IS GREATER.
6. MILL 25' BACK FROM TRENCH CROSSING SAW CUTS. ADJUST MILLING PER INDIVIDUAL SITE TO NOT IMPACT BASE. BUTT JOINT TO EXIST ASPHALT. FINAL OVERLAY TO MATCH EXISTING WITH NO DISCERNABLE "BUMP" AT JOINT. MILLING LIMITS THAT IMPACT INTERSECTION SHALL BE ADDRESSED ON A CASE BY CASE BASIS AND APPROVED BY MANATEE COUNTY.
7. SHEETING ORDERED LEFT IN PLACE TO BE CUT OFF 24" BELOW FINISHED GRADE OR 12" BELOW SUBGRADE.
8. NEW BASE SHALL MATCH EXISTING; OR BE CRUSHED CONCRETE, 8" MIN. THICKNESS, LBR ≥150, WHICHEVER IS GREATER.
9. TEMPORARY PATCHES WILL BE INSTALLED TO PROVIDE A SMOOTH ALL WEATHER SURFACE AT ALL TIMES. PERMANENT REPLACEMENT TO BE MADE AS SOON AS POSSIBLE.
10. RESTORE SIGNAGE & MARKING WITH THERMOPLASTIC PER FDOT STANDARDS, LATEST EDITION.
11. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.
12. NOTES 5. THRU 10. ARE MINIMUM REQUIREMENTS FOR A TRENCH IN A LOCAL ROAD. REFER TO LATEST EDITION OF MANATEE COUNTY HIGHWAY AND TRAFFIC STANDARDS FOR ADDITIONAL REQUIREMENTS.



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

NOTES:

1. USE OF TYPE A–2 AND A–3 PIPE BEDDING TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
2. PROVIDE ADEQUATE CLEARANCE TO PLACE AND COMPACT STAGE 1 BEDDING MATERIAL IN TRENCH AREA BELOW PIPE SPRINGLINE. PIPE EMBEDMENT MUST BE COMPACTED OUT TO THE TRENCH WALL OR 2.5 TIMES THE PIPE OD, WHICHEVER IS LESS.
3. PIPE INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. TRACER WIRE NOT REQUIRED FOR GRAVITY SEWERS.



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

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No.	By	Appd	YYYY.MM.DD	Revision
1				Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-521UD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
UTILITY CONSTRUCTION DETAILS

Revision: Sheet: 101 of 126

Drawing No.
101

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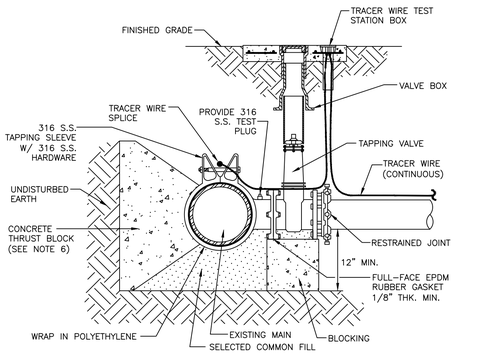
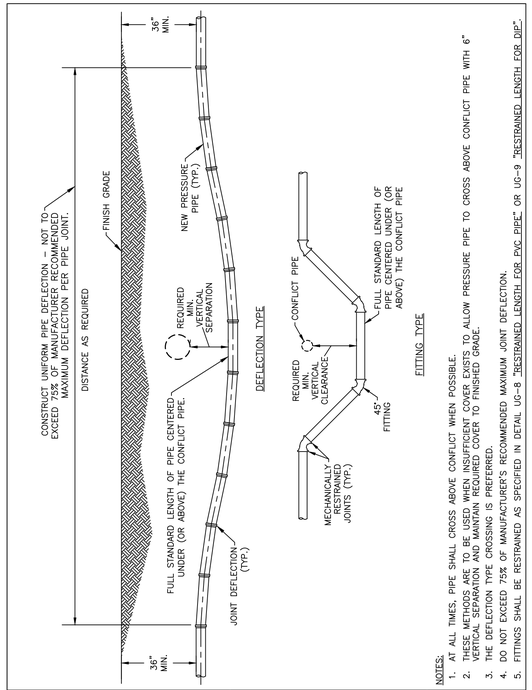


ELEVATION

NOTES:

1. PRIOR TO TAPPING, CONTRACTOR TO DEMONSTRATE 60 MINUTE HYDROSTATIC TEST OF THE TAPPING SLEEVE AND VALVE WITH NO LOSS OF 180 PSI PRESSURE FOR WATER AND RECLAIMED WATER.
2. ALL FITTINGS TO BE WRAPPED WITH 20 MIL POLYETHYLENE WRAP AT THRUST BLOCK.
3. ALL TAPS ON CONCRETE WATER MAINS AND LARGER THAN 12" ARE TO BE MADE BY A MANATEE COUNTY APPROVED TAPPING COMPANY. ALL MATERIALS TO BE SUPPLIED BY THE CONTRACTOR.
4. ALL TAPS MUST BE OF A SMALLER SIZE THAN THE MAIN BEING TAPPED & PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP PIPE DIAMETERS (WHICHEVER IS GREATER) FROM A JOINT OR FITTING.
5. CONTRACTOR TO SUPPLY A DRY HOLE FOR TAPPING CREW TO WORK IN AND A BACK-HOE TO LOWER TAPPING MACHINE INTO THE HOLE.
6. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
7. TRACER WIRE TEST STATION BOX IS REQUIRED AT CONNECTIONS TO EXISTING MAINS.
8. SEE SECTION 1.11 TAPPING SLEEVES AND VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

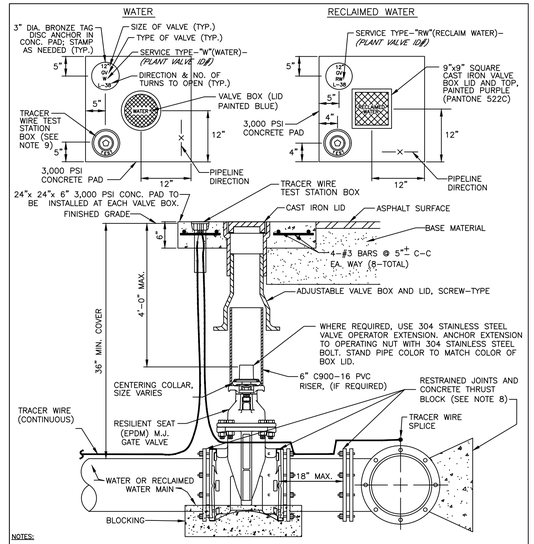
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	TAPPING SLEEVE AND VALVE (WATER/RECLAIM) — UW-3



NOTES:

1. AT ALL TIMES, PIPE SHALL CROSS ABOVE CONFLICT WHEN POSSIBLE.
2. THESE METHODS ARE TO BE USED WHEN INSUFFICIENT COVER EXISTS TO ALLOW PRESSURE PIPE TO CROSS ABOVE CONFLICT PIPE WITH 6" VERTICAL SEPARATION AND MAINTAIN REQUIRED COVER TO FINISHED GRADE.
3. THE DEFLECTION TYPE CROSSING IS PREFERRED.
4. DO NOT EXCEED 75% OF MANUFACTURER'S RECOMMENDED MAXIMUM JOINT DEFLECTION.
5. FITTINGS SHALL BE RESTRAINED AS SPECIFIED IN DETAIL UG-8 "RESTRAINED LENGTH FOR PVC PIPE" OR UG-9 "RESTRAINED LENGTH FOR DIP."

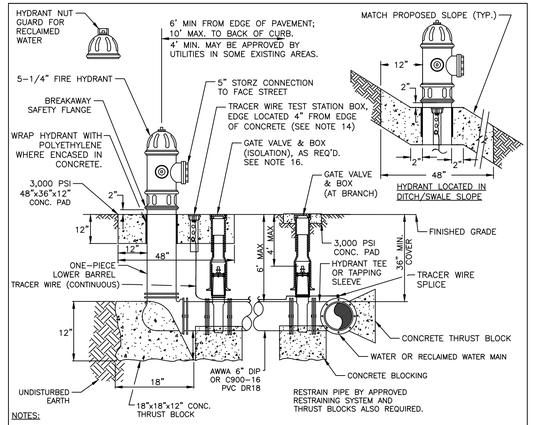
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	PRESSURE PIPE DEFLECTION AT UTILITY CROSSING — UG-18



NOTES:

1. "W" OR "RW" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VALVE. IF NO CURB, INSTALL A BLUE DISC WITH "W" OR PURPLE DISC WITH "RW" USING A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS, OR GUTTERS.
4. PRECAST CONCRETE PADS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. PIPELINE DIRECTION TO BE IMPRESSED INTO NEWLY POURED CONCRETE PAD.
7. TRACER WIRE TEST STATION BOX IS NOT REQUIRED IN VALVE BOX PAD IF THE GATE VALVE IS LOCATED WITHIN 200 FEET OF A WATER SERVICE, BLOW-OFF, BACKFLOW PREVENTER OR FIRE HYDRANT THAT HAS A TRACER WIRE BOX.
8. WHERE THRUST BLOCK NOT USED, RESTRAINED JOINTS MUST THEN EXTEND FROM TEE FULL LENGTH SPECIFIED FOR "TEES."
9. USE NON-TRAFFIC RATED BOXES FOR NORMAL YARD SERVICE, WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE BOX PAD.
10. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID#" WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
11. REFER TO SECTION 1.11 GATE VALVES IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

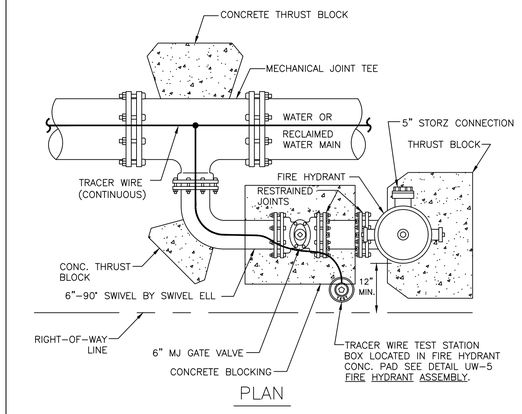
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	GATE VALVE, BOX, LID AND TAG — UW-2



NOTES:

1. WEEPHOLES SHALL BE EXCLUDED FROM THE FIRE HYDRANT.
2. FIRE HYDRANTS SHALL BE A MINIMUM OF 6' OFF EDGE OF PAVEMENT AND 10' MAX. FROM BACK OF CURB. WHERE POSSIBLE AND WHERE SIDEWALK IS TO BE INSTALLED, FIRE HYDRANT SHALL BE LOCATED BETWEEN SIDEWALK AND RIGHT-OF-WAY LINE.
3. HYDRANT SHALL BE DUCTILE IRON CONSTRUCTION. HYDRANTS SHALL BE FUSION BONDED EPOXY COATED SAFETY YELLOW FOR WATER; PURPLE (PANTONE 522C) FOR RECLAIMED WATER; AND RED FOR PRIVATE.
4. FIRE HYDRANTS SHALL BE PLACED SO THAT STORM WATER FLOWS AWAY FROM THE HYDRANT.
5. FIRE HYDRANTS SHALL BE CONSTRUCTED WITH "GROUND LINE" SET TO FINISHED GRADES AS ESTABLISHED IN THE FIELD. NORMAL BURY IS 3 FEET OF COVER FOR ALL WATER LINES.
6. FIRE HYDRANTS MAY BE CONSTRUCTED WITH "GRADELOK" OFFSET FITTING.
7. RAISED REFLECTIVE PAVEMENT MARKER(S) (BLUE) FOR POTABLE WATER (PURPLE) FOR RECLAIMED WATER SHALL BE INSTALLED ON THE PAVEMENT DIRECTLY ACROSS FROM THE HYDRANT IN ACCORDANCE WITH THE FDOT TRAFFIC ENGINEERING MANUAL, CHAPTER 4, SECTION 4.3 OR MOST CURRENT ADDITION.
8. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE 1/2" CHAMFER.
9. FIRE HYDRANT VALVE SHALL BE FASTENED DIRECTLY TO TEE.
10. IN-LINE VALVES SHOULD BE LOCATED AT HYDRANT TEES.
11. HYDRANTS SHALL BE LOCATED ON SAME SIDE OF ROAD AS WATER OR RECLAIMED MAIN.
12. THERE MUST BE A CLEARANCE OF 7 1/2 FEET FROM FRONT AND BOTH SIDES, AND FOUR FEET TO THE REAR OF THE HYDRANT, TO ABOVE GRADE OBSTRUCTIONS INCLUDING POSTS, FENCES, TREES, ETC, PER THE FLORIDA FIRE PREVENTION CODE.
13. SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.
14. SHOULD THE FIRE HYDRANT'S CONCRETE PAD OVERLAP A SIDEWALK, THE TRACER WIRE TEST STATION BOX SHALL NOT BE LOCATED WITHIN THE SIDEWALK.
15. IF A HYDRANT IS LOCATED ON THE SLOPE OF A DITCH OR SWALE; THE CONCRETE PAD SHALL CONFORM TO THE FINISH GRADE/SLOPE. THE CONCRETE PAD SHALL BE LEVEL 2-INCHES BEHIND & IN FRONT OF THE HYDRANT.
16. AT THE DISCRETION OF THE COUNTY AN ADDITIONAL ISOLATION GATE VALVE SHALL BE ADDED, WHEN A PHYSICAL BARRIER IS PRESENT, (I.E. ROADWAY, FENCE, WALL, BERM ETC), BETWEEN THE BRANCH GATE VALVE AND THE HYDRANT.
17. SEE SECTION 1.11 HYDRANTS IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

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

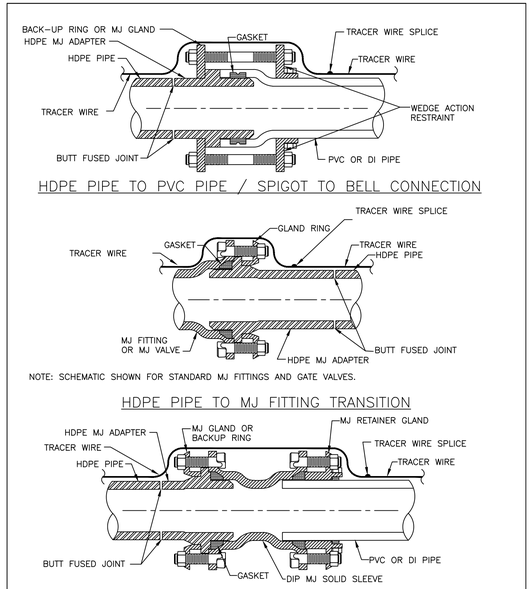


PLAN

NOTES:

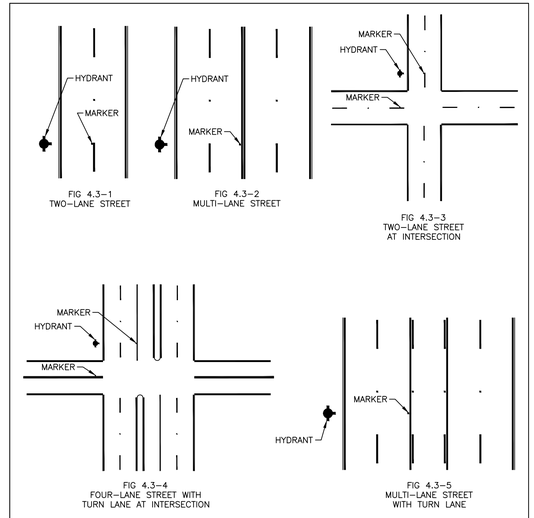
1. THIS DETAIL FOR USE ONLY WHEN THE WATER MAIN IS LOCATED TOO CLOSE TO THE RIGHT-OF-WAY LINE TO USE THE FIRE HYDRANT ASSEMBLY DETAIL.
2. SEE STANDARD DETAIL UW-2 GATE VALVE, BOX, LID AND TAG.

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



1. ONE TRACER WIRE SHALL BE SECURED TO THE PIPE FOR ALL TYPES OF PIPELINE INSTALLATIONS.

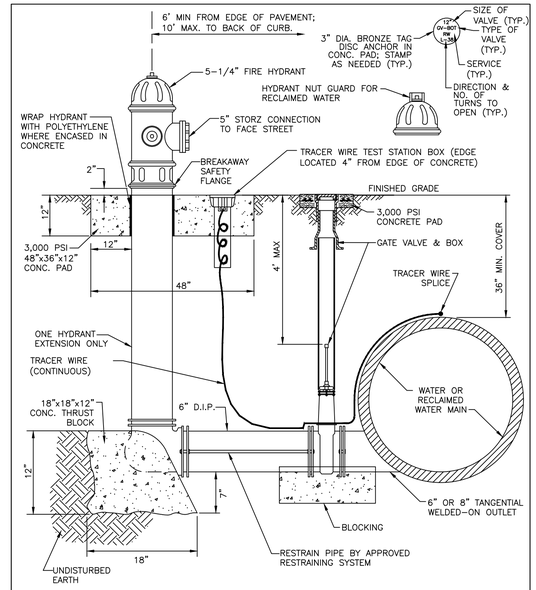
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	HDPE TO PVC OR DI PIPE ADAPTER — UG-6



NOTES:

1. TWO-WAY STREETS OR ROADS: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED CENTERLINE ON THE SIDE NEAREST THE FIRE HYDRANT. IF THE STREET HAS NO CENTERLINE, THE MARKER SHOULD BE PLACED 6 INCHES FROM APPROXIMATE CENTER OF THE ROADWAY ON THE SIDE NEAREST THE HYDRANT. SEE FIGURE 4.3-1, 4.3-2, AND 4.3-3.
2. STREETS WITH LEFT TURN LANE AT INTERSECTION: MARKER SHOULD BE PLACED 6 INCHES FROM EDGE OF PAINTED WHITE CHANNELIZING LINE OF THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-4.
3. STREETS WITH CONTINUOUS TWO-WAY TURN LANE: MARKER SHOULD BE PLACED 6 INCHES FROM THE EDGE OF THE PAINTED YELLOW BARRIER LINE ON THE SIDE NEAREST THE FIRE HYDRANT. SEE FIGURE 4.3-5.
4. MARKER SHALL BE BLUE/BLUE RAISED RETROREFLECTIVE PAVEMENT MARKER.

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



NOTES:

1. FIRE HYDRANT BLOW-OFF ASSEMBLY TO COMPLY WITH NOTES 1-15 OF DETAIL UW-5 FIRE HYDRANT ASSEMBLY DETAIL.
2. TYPICAL LOCATION FOR TANGENTIAL OUTLET IS AT LOW POINT ALONG THE MAIN WHERE SEDIMENTS ACCUMULATE.
3. SEE UW-2 GATE VALVE, BOX, LID AND TAG DETAIL.
4. BRASS TAG SHALL INDICATE FEED IS FROM THE BOTTOM OF THE MAIN, "B.O.T" (BLOW-OFF TANGENT)

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	FIRE HYDRANT BLOW-OFF ASSEMBLY FOR 12" MAINS AND LARGER — UW-9

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel (941) 907-6900
www.stantec.com

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Consultant

No.	By	Appd	YYYY.MM.DD	Revision

No.	By	Appd	YYYY.MM.DD	Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-531WD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS

Revision: Sheet: 102 of 126

Drawing No.
102

v:\2156\active\215617221\civil\drawings\01c_cons\sheet_files\215617221-01c-531wd\layout1
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ORIGINAL SHEET - ARCH D

REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR C900-16 PVC PIPE (DR-18)

MAIN PIPE SIZE	HORIZ. BENDS			TEES							REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE / LENGTH							SIZE / LENGTH				
24	90	38	18	X24 69	X20 132	X18 90	X12 38	X10 6			X20 64	X16 117	X12 158		214
20	78	32	16	X20 141	X16 101	X12 53	X10 24	X8 1			X16 65	X12 115	X10 149		184
16	66	27	13	X16 111	X12 67	X10 41	X8 12				X12 64	X10 107	X8 111		151
12	52	22	10	X12 80	X10 56	X8 31	X6 1				X10 58	X8 62	X6 86		118
10	44	18	9	X10 63	X8 40	X6 7					X8 33	X6 61	X4 81		100
8	37	15	7	X8 49	X6 18	X4 1					X6 35	X4 60			83
6	29	12	6	X6 29	X4 1						X4 33				63
4	21	8	4	X4 12											45

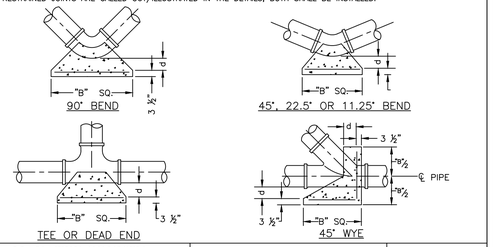
NOTES:
1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTING SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL UG-10 RESTRAINED LENGTHS FOR PIPE.
9. ALL RESTRAINED JOINT HARDWARE SHALL CONFORM TO 1.11.17 OF THE PUBLIC WORKS UTILITIES STANDARDS MANUAL.
10. ALL THREE "LEGS" OF TEES SHALL BE RESTRAINED PER THE STATED LENGTH IN THE TABLE.

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

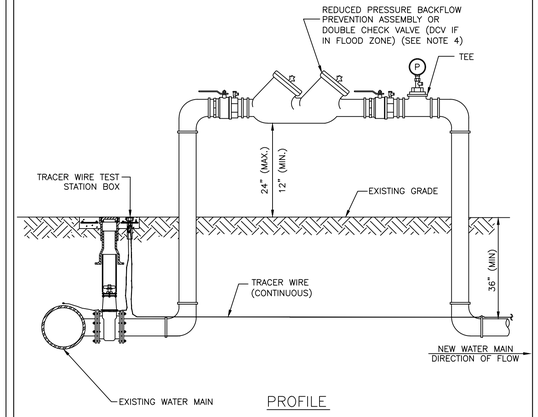
THRUST BLOCK DIMENSIONS B ft. x d inches														
PIPE SIZE (IN.)	90°BEND		45°BEND		22.5°BEND		11.25°BEND		DEAD END & TEE		45° WYE			
	B	d	B	d	B	d	B	d	B	d	B	d		
4	1.5	3 ½	1.1	3 ½	0.8	3 ½	0.6	3 ½	1.3	3 ½	1.1	3 ½		
6	2.2	5 ¼	1.6	3 ¾	1.2	3 ½	0.8	3 ½	1.9	4 ½	1.6	3 ¾		
8	2.9	7	2.1	5	1.5	3 ½	1.1	3 ½	2.4	5 ¾	2.0	4 ¾		
10	3.5	8 ½	2.6	6 ¼	1.9	4 ½	1.3	3 ½	3.0	7 ¼	2.5	6		
12	4.2	10	3.1	7 ½	2.2	5 ¼	1.6	3 ¾	3.5	8 ¼	3.0	7 ¼		
14	4.9	11 ¾	3.6	8 ¾	2.6	6 ¼	1.8	4 ¼	4.1	9 ¾	3.4	8 ¼		
16	5.5	13 ¼	4.1	9 ¾	2.9	7	2.1	5	4.7	11 ¼	3.9	9 ¼		
18	6.2	15	4.6	11	3.3	8	2.3	5 ½	5.2	12 ½	4.4	10 ½		
20	6.9	16 ½	5.0	12	3.6	8 ¾	2.6	6 ¼	5.8	14	4.9	11 ¾		
24	8.2	19 ¾	6.0	14 ½	4.3	10 ¼	3.1	7 ½	6.9	16 ½	5.8	14		
30	10.1	24 ¼	7.5	18	5.3	12 ¾	3.8	9	8.5	20 ½	7.2	17 ¼		
36	12.1	29	8.9	21 ¼	6.4	15 ¼	4.5	10 ¾	10.2	24 ½	8.6	20 ¾		

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

NOTES:
1. ALL THRUST BLOCKS SHALL BE CAST IN PLACE. FITTINGS ADJACENT TO THRUST BLOCKS SHALL BE WRAPPED IN POLYETHYLENE.
2. THIS TABLE IS BASED ON WATER PRESSURE=180 PSI WITH AN ALLOWABLE SOIL BEARING PRESSURE=2000 PSF, CONCRETE STRENGTH f_c =3000 PSI, REINFORCEMENT f_y =60.0 KSI. THRUST BLOCK SHALL BE CAST AGAINST FIRM UNDISTURBED SOIL.
3. FOR LARGER "B" DIMENSIONS IT IS NECESSARY TO CHECK THAT PIPE IS SUFFICIENTLY DEEP TO ALLOW 15" MIN. SOIL COVER OVER TOP EDGE OF THRUST BLOCK.
4. RESTRAINED JOINTS MAY BE USED IN LIEU OF THRUST BLOCKS TO SAVE SPACE. HOWEVER, WHERE THRUST BLOCKS AND RESTRAINED JOINTS ARE CALLED OUT/ILLUSTRATED IN THE DETAILS, BOTH SHALL BE INSTALLED.

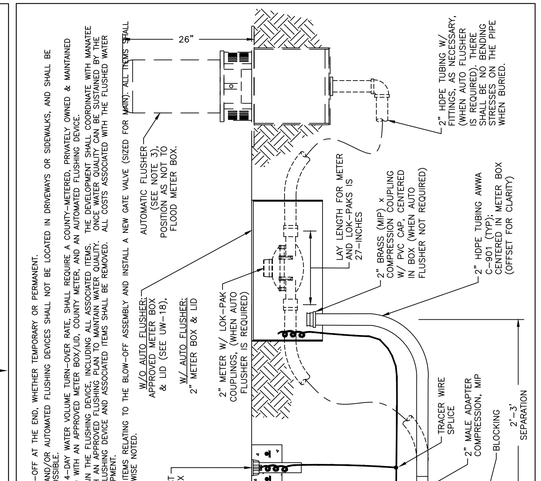


MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	CONCRETE THRUST BLOCKS	UG-7



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). ALL CORPORATION STOP TAPS SHALL BE PLACED NO CLOSER THAN 30" OR A DISTANCE EQUAL TO (1) MAIN PIPE DIAMETER PLUS (2) TAP DIAMETERS (WHICHEVER IS LARGER) FROM THE NEW TIE-IN VALVE (TAPPING VALVE & SLEEVE). SIZE-ON-SIZE TAPS ARE NOT ALLOWED. A CUT-IN TEE SHALL BE USED.
3. IF THE EXISTING WATER MAIN IS LOCATED UNDER PAVEMENT OR CLOSE TO THE ROADWAY, BOTH JUMPER CORPORATION STOPS MAY CONNECT TO THE NEW WATER MAIN LOCATED OUTSIDE OF THE PAVEMENT. AN ADDITIONAL GATE VALVE SHALL BE INSTALLED AND THE VALVE MAY BE LOCATED AT THE ROW LINE. PIPING AND APPURTENANCES BETWEEN THE EXISTING MAIN AND ISOLATION VALVE AND JUMPER SHALL BE DISINFECTED BY SPRAYING OR SWABBING.
4. BACKFLOW PREVENTION ASSEMBLY SHALL BE STRUCTURALLY SUPPORTED.
5. SEE DETAIL UW-24 FOR ADDITIONAL JUMPER CONNECTION NOTES.

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



NOTES:
1. ALL DEAD-END WATER MAINS REQUIRE A BLOW-OFF AT THE END, WHETHER TEMPORARY OR PERMANENT.
2. BLOW-OFF VALVE ASSEMBLIES, METER BOXES, AND/OR AUTOMATED FLUSHING DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS OR SIDEWALKS, AND SHALL BE PROPERLY OWNED & MAINTAINED.
3. DEAD-END PUBLIC MAINS, WITH MORE THAN A 4-DAY WATER VOLUME TURN-OVER RATE, SHALL REQUIRE A COUNTY-METERED, PRIVATELY OWNED & MAINTAINED AUTOMATIC FLUSHING SYSTEM TO BE INSTALLED WITH AN APPROVED METER BOX/LID, COUNTY METER, AND AN AUTOMATED FLUSHING DEVICE.
4. THE AUTOMATIC FLUSHING SYSTEM SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH MANATEE COUNTY LABORATORY PERSONNEL TO ESTABLISH AN APPROVED FLUSHING PLAN TO MAINTAIN WATER QUALITY. ONCE WATER QUALITY CAN BE SUSTAINED BY THE PROPOSED DEVELOPMENT WATER USAGE, THE FLUSHING DEVICE AND ASSOCIATED ITEMS SHALL BE REMOVED. ALL COSTS ASSOCIATED WITH THE FLUSHED WATER SHALL BE RETURNED TO THE COUNTY, UNLESS OTHERWISE NOTED.
5. WHEN EXTENDING A WATER MAIN, REMOVE ALL ITEMS RELATING TO THE BLOW-OFF ASSEMBLY AND INSTALL A NEW GATE VALVE (SIZED FOR MAIN), ALL ITEMS SHALL BE RETURNED TO THE COUNTY.

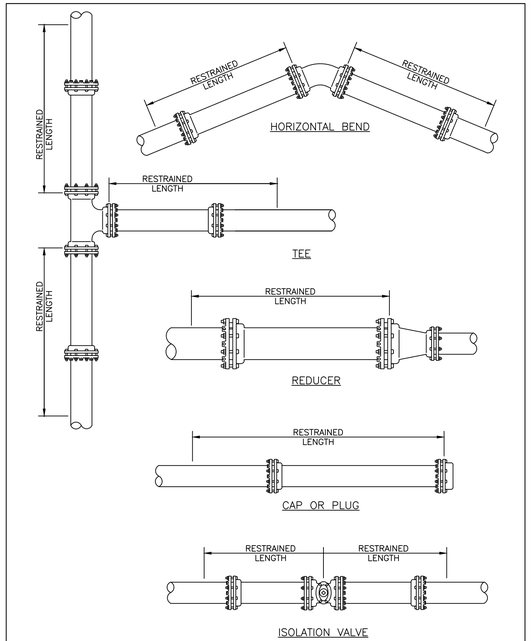
MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	2" BLOW-OFF ASSEMBLY	UW-8

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

MAIN PIPE SIZE	HORIZ. BENDS			TEES							REDUCERS				PLUGS & VALVES
	90°	45°	22.5°	SIZE / LENGTH							SIZE / LENGTH				
36	142	59	28	X36 393	X30 318	X24 232	X20 165	X16 84	X12 1		X30 137	X24 247	X20 309	X16 359	453
30	124	51	25	X30 333	X24 252	X20 189	X16 115	X12 23	X10 1		X24 137	X20 213	X16 276		391
24	106	44	21	X24 270	X20 211	X16 143	X12 61	X10 10	X8 1		X20 98	X16 178	X12 241		327
20	92	38	18	X20 225	X16 161	X12 85	X10 39	X8			X16 98	X12 178	X10 237		280
16	77	32	15	X16 177	X12 107	X10 65	X8 19	X6 1			X12 98	X10 163	X8 169		231
12	61	25	12	X12 127	X10 89	X8 50	X6 1				X10 88	X8 96	X6 131		181
10	52	22	10	X10 101	X8 64	X6 11					X8 51	X6 94	X4 125		153
8	44	18	9	X8 78	X6 30	X4 1					X6 54	X4 92			128
6	34	14	7	X6 46	X4 1						X4 50				98
4	24	10	5	X4 19											69

NOTE:
1. SEE UG-8, RESTRAINED LENGTHS FOR PVC PIPE DETAIL FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR DIP.

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



NOTE:
1. SEE DETAIL UG-8 RESTRAINED LENGTHS FOR PVC PIPE FOR NOTES 1 THROUGH 9 THAT ARE ALSO APPLICABLE TO RESTRAINED LENGTHS FOR PIPE.

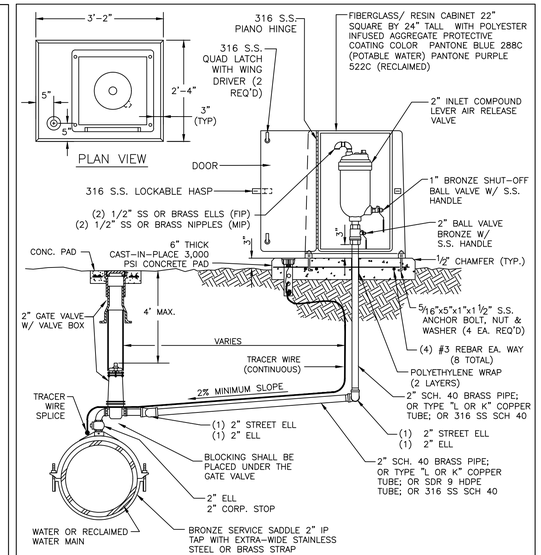
MANATEE COUNTY PUBLIC WORKS DEPARTMENT				
REV.BY	DATE	February 25, 2020 DATE OF APPROVAL	RESTRAINED LENGTHS FOR PIPE	UG-10

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;
   b. PROJECTS THAT INCLUDE NEW WATER MAINS THAT ARE LESS THAN OR EQUAL TO 18 LINEAR FEET IN LENGTH; OR
   c. OTHER PROPOSED CASES THAT ARE APPROVED BY MANATEE COUNTY AND THE CONSTRUCTION DRAWINGS SPECIFICALLY STATE THAT A TEMPORARY JUMPER CONNECTION IS NOT REQUIRED.
2. A TEMPORARY JUMPER SHALL BE USED AND BE CONNECTED TO AN APPROVED POTABLE WATER SOURCE (E.G., EXISTING FIRE HYDRANT, EXISTING MAIN, EXISTING SERVICE TAP OR TANK TRUCK, ETC.) AS SHOWN IN THE STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B.

   A TEMPORARY JUMPER SHALL BE USED FOR FILLING, FLUSHING AND FOR DISINFECTION OF ANY NEW MAIN OF ANY SIZE. THE TEMPORARY JUMPER CONNECTION SHALL BE MAINTAINED UNTIL AFTER THE FILLING, FLUSHING, TESTING AND DISINFECTION OF THE NEW MAIN HAS BEEN SUCCESSFULLY COMPLETED AND CLEARANCE FOR USE FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) HAS BEEN OBTAINED.
3. THE LOCATION AND ORIENTATION OF TEMPORARY JUMPERS ASSOCIATED WITH CONNECTIONS TO EXISTING WATER MAINS THAT ARE LOCATED UNDER THE ROADWAY PAVEMENT SHALL BE APPROVED ON A CASE-BY-CASE BASIS.
4. PIPE AND FITTINGS USED FOR CONNECTING THE NEW PIPE TO THE EXISTING PIPE SHALL BE DISINFECTED PRIOR TO INSTALLATION IN ACCORDANCE WITH AWWA C651, LATEST EDITION, UNLESS APPROVED OTHERWISE, THE TAPPING SLEEVE, AND EXTERIOR OF THE EXISTING MAIN TO BE TAPPED, PIPING WITHIN THE JUMPER, AND NEW PIPING SHOWN ON STANDARD TEMPORARY JUMPER DETAIL UW-23A OR UW-23B SHALL BE DISINFECTED BY SPRAYING OR SWABBING PER SECTION 4.6 OF AWWA C651.
5. THE JUMPER SHALL INCLUDE A FLOW METER TO ENSURE THAT THE FLOW FROM THE SUPPLY SOURCE IS AT A CONSTANT MEASURED RATE WHILE CHLORINATING THE NEW MAIN. THE CHLORINE CONCENTRATION SHALL BE MEASURED AT REGULAR INTERVALS TO ENSURE THAT IT IS FED AT A CONSTANT RATE OF NOT LESS THAN 25 MILLIGRAMS PER LITER (MG/L) OF FREE CHLORINE.
6. THE JUMPER CONNECTION SHALL ALSO BE USED TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI IN THE NEW MAINS CONTINUOUSLY AFTER DISINFECTION AND UNTIL FDEP CLEARANCE LETTER IS OBTAINED.
7. ALL TEMPORARY BACKFLOW PREVENTION ASSEMBLY OR "JUMPERS" UTILIZED DURING PIPELINE CONSTRUCTION MUST SHOW CERTIFICATION THAT THEY HAVE BEEN TESTED ANNUALLY AND PASSED ACCORDING TO THE FLORIDA BUILDING CODE, PLUMBING SECTION, CHAPTER 3, SECTION 312.9.1, 312.9.2, CHAPTER 6, SECTION 608, AND RESOLUTION R87-125. ANNUAL CERTIFICATION MUST BE VALID AT TIME OF INSTALLATION AND PROVIDED TO THE MANATEE COUNTY INSPECTOR UPON REQUEST.
8. ALL INSTALLATION AND MAINTENANCE OF THE TEMPORARY JUMPER CONNECTION AND ASSOCIATED BACKFLOW PREVENTION ASSEMBLY, FLOW METER, FITTINGS, VALVES, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
9. TEMPORARY JUMPER SIZE DEPENDS ON THE SITUATION: JUMPERS LARGER THAN 2-INCHES MAY BE USED FOR FLUSHING PURPOSES OR IF PARTIAL FIRE PROTECTION IS REQUIRED DURING INITIAL CONSTRUCTION, AS DETERMINED BY THE ENGINEER OF RECORD OR FIRE DEPARTMENT.
10. PRIOR TO REMOVAL OF THE TEMPORARY JUMPER, THE NEWLY-CONSTRUCTED WATER SYSTEM SHALL HAVE RECEIVED CLEARANCE FROM THE FDEP.
11. AFTER RECEIPT OF CLEARANCE FOR USE BY FDEP, MANATEE COUNTY, AND ALL OTHER PERTINENT AGENCIES, THE CONTRACTOR SHALL REMOVE THE TEMPORARY JUMPER CONNECTION AND COMPLETE THE WATER MAIN. ALL CORPORATION STOPS LEFT-IN-PLACE ARE TO BE CLOSED AND PLUGGED WITH 2-INCH BRASS.
12. IF THE TEMPORARY JUMPER IS LOCATED WITHIN A STANDARD PIPE LENGTH AWAY FROM THE PROPOSED TIE-IN AND A SINGLE STANDARD LENGTH OF PIPE IS USED FOR COMPLETING THE CONNECTION, THEN THE COUNTY WILL PERFORM A VISUAL INSPECTION AND A SEPARATE HYDROSTATIC TEST MAY NOT BE REQUIRED.

    IF MULTIPLE LENGTHS OF PIPES ARE USED TO COMPLETE THE CONNECTION, THEN A SEPARATE HYDROSTATIC TEST WILL BE REQUIRED. THE HYDROSTATIC TEST SHALL BE PERFORMED BETWEEN THE PROPOSED TIE-IN VALVE AND THE FIRST DOWNSTREAM VALVE FROM THE TEMPORARY JUMPER LOCATION.

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



NOTES:
1. AIR RELEASE VALVES TO BE INSTALLED AT HIGH POINTS ALONG THE MAINS, WHERE ARE COULD BE TRAPPED.
2. ARV VENT ORIFICE TO BE SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR WATER MAIN SIZE.
3. ALL INCIDENTAL FITTINGS AND HARDWARE TO BE STAINLESS STEEL, BRASS OR COPPER.
4. ALL PIPE THREADS TO BE SEALED AIR TIGHT.
6. VENT PIPE TO BE LAID ACCURATELY ON SLOPE, WITHOUT HIGH OR LOW POINTS.
7. 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.
8. SEE UW-2 GATE VALVE, BOX, LID AND TAG STANDARD DETAIL. CENTERING COLLAR IS NOT REQUIRED ON 2" GATE VALVES.

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

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1	Issued			

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-531WD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS

Revision: Sheet: 103 of 126

Drawing No.
103

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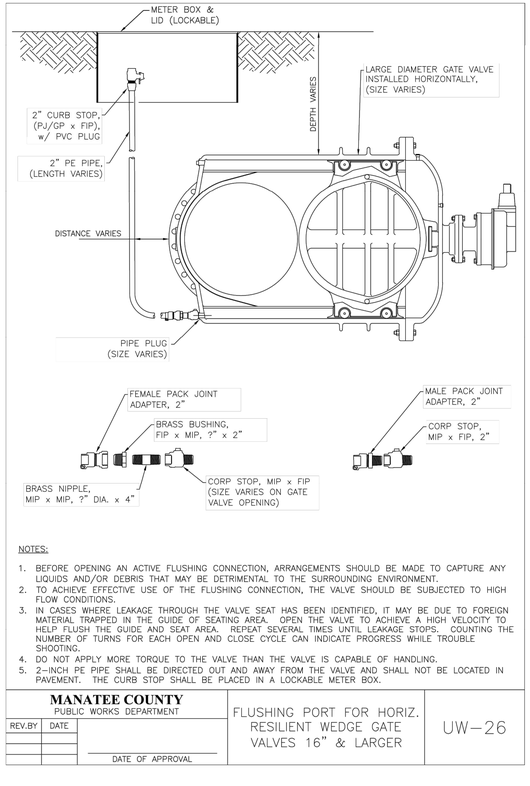

NOTES:

1. BEFORE OPENING AN ACTIVE FLUSHING CONNECTION, ARRANGEMENTS SHOULD BE MADE TO CAPTURE ANY LIQUIDS AND/OR DEBRIS THAT MAY BE DETRIMENTAL TO THE SURROUNDING ENVIRONMENT.
2. TO ACHIEVE EFFECTIVE USE OF THE FLUSHING CONNECTION, THE VALVE SHOULD BE SUBJECTED TO HIGH FLOW CONDITIONS.
3. IN CASES WHERE LEAKAGE THROUGH THE VALVE SEAT HAS BEEN IDENTIFIED, IT MAY BE DUE TO FOREIGN MATERIAL TRAPPED IN THE GUIDE OF SEATING AREA. OPEN THE VALVE TO ACHIEVE A HIGH VELOCITY TO HELP FLUSH THE GUIDE AND SEAT AREA. REPEAT SEVERAL TIMES UNTIL LEAKAGE STOPS. COUNTING THE NUMBER OF TURNS FOR EACH OPEN AND CLOSE CYCLE CAN INDICATE PROGRESS WHILE TROUBLE SHOOTING.
4. DO NOT APPLY MORE TORQUE TO THE VALVE THAN THE VALVE IS CAPABLE OF HANDLING.
5. 2-INCH PE PIPE SHALL BE DIRECTED OUT AND AWAY FROM THE VALVE AND SHALL NOT BE LOCATED IN PAVEMENT. THE CURB STOP SHALL BE PLACED IN A LOCKABLE METER BOX.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT			FLUSHING PORT FOR HORIZ. RESILIENT WEDGE GATE VALVES 16" & LARGER	UW-26
REV.BY	DATE	DATE OF APPROVAL		

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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-531WD

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
WATER DISTRIBUTION AND RECLAIM SYSTEM DETAILS

Revision: Sheet:103A of 126

Drawing No.
103A

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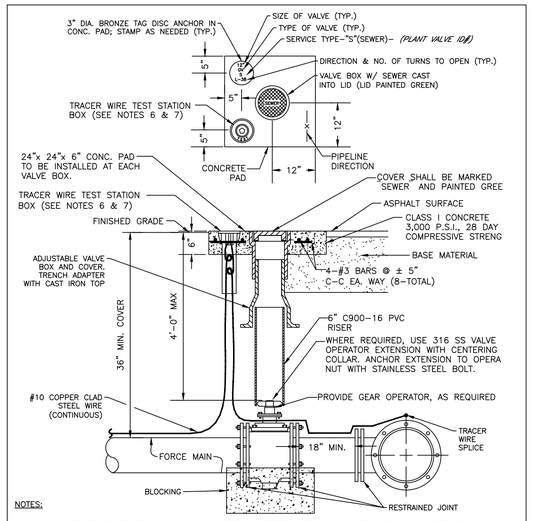
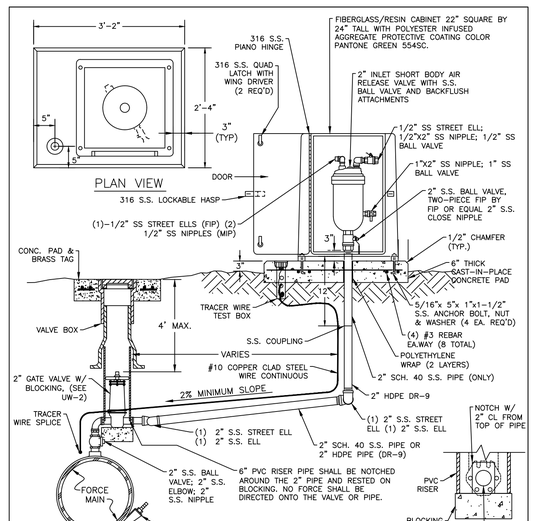


NOTES:

1. "SV" TO BE IMPRESSED INTO THE NEWLY-POURED CONCRETE CURB, ALONG WITH DISTANCE IN FEET TO THE VA IF NO CURB, INSTALL A GREEN DISC WITH "SV" AND A 1/8" x 1" GALVANIZED STEEL SCREW IN THE EDGE OF PAVEMENT WITH THE FOOTAGE FROM THE DISC TO THE VALVE.
2. ALL EXISTING AND PROPOSED VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADES AS DETERMINED IN THE FIELD.
3. VALVES SHALL NOT BE PLACED IN HANDICAPPED RAMPS, CURBS OR GUTTERS.
4. PRECAST CONCRETE PADS AND THRUST BLOCKS SHALL NOT BE USED.
5. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2".
6. USE NON-TRAFFIC RATED BOXES FOR NORMAL YARD SERVICE. WHERE VALVE WILL BE IN STREET OR PARKING UNDER VEHICLE TRAFFIC, USE TRAFFIC RATED BOXES. WHERE POSSIBLE, LOCATE TRACE WIRE TESTING STATION OUTSIDE OF TRAVEL LANE OR IN MEDIAN, CENTERED IN SEPARATE CONCRETE PAD SIMILAR TO STANDARD VALVE PAD.
7. TRACER WIRE BOX SHALL BE LOCATED OUTSIDE THE ROADWAY ON THOROUGHFARES, LOCAL ARTERIAL AND STATE ROADWAYS.
8. THE BRASS TAG SHALL HAVE A "PLANT VALVE ID# WHEN VALVES ARE INSTALLED WITHIN THE COUNTY TREATMENT PLANT LIMITS. THE PLANT VALVE ID# SHALL BE SHOWN ON THE CONSTRUCTION PLANS AND RECORD DRAWINGS.
9. REFER TO SECTION 1.11 IN THE PUBLIC WORKS UTILITY STANDARDS MANUAL FOR FURTHER DETAILS.

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



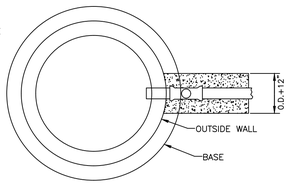
NOTES:

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 UW-2 GATE VALVE, BOX, LID AND TAG STANDARD DETAIL. CENTERING COLLAR IS NOT REQUIRED ON 2" GATE VALVES.

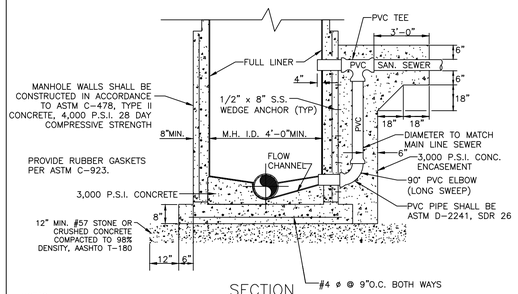
MANATEE COUNTY PUBLIC WORKS DEPARTMENT			
REV.BY	DATE		
		February 25, 2020 DATE OF APPROVAL	ABOVE-GROUND AIR RELEASE VALVE ASSY. FOR FORCE MAINS
			US-9

NOTES:

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



PLAN

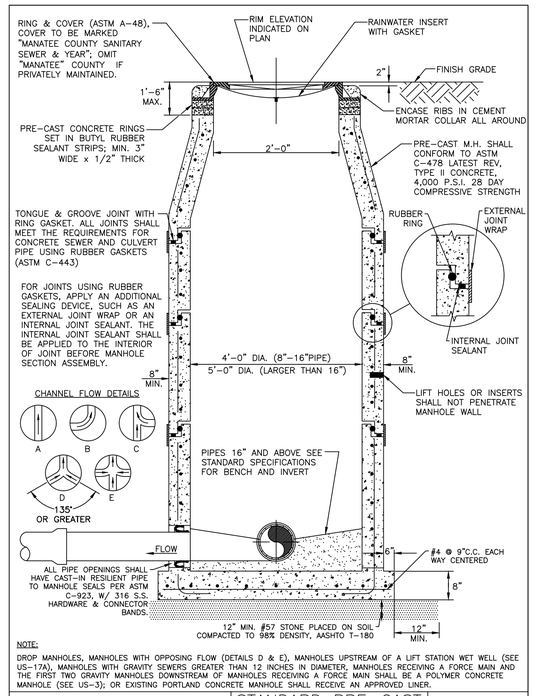


SECTION

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



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

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Revision

	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-5325M

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
WASTEWATER DETAILS

Revision: Sheet: 104 of 126

Drawing No.
104

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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 (SWFWMD) 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 SWFWMD 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 SWEPT 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 TARPAULIN.
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. 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.
13. 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.
14. 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.
15. 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 FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
16. 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.
17. A NPDES CERTIFIED PERSON 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.
18. 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.
19. 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.
20. 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.
21. 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.
22. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
23. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
24. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
25. 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.
26. 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.
27. 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.
28. CONTRACTOR TO REVIEW FIELD LOCATION OF SILT FENCE WITH OWNER/OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
29. 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

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-6900
www.stantec.com

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Consultant

No.	Revision	By	Appd	YYYY.MM.DD
1	Issued			

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-701EC
Scale: 1" = 200'

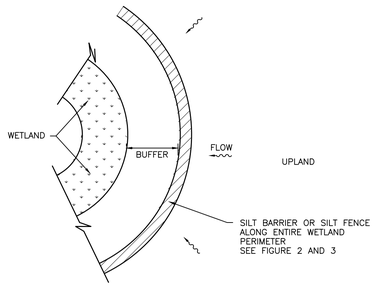
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
BEST MANAGEMENT PRACTICES PLAN

Revision: Sheet: 105 of 126

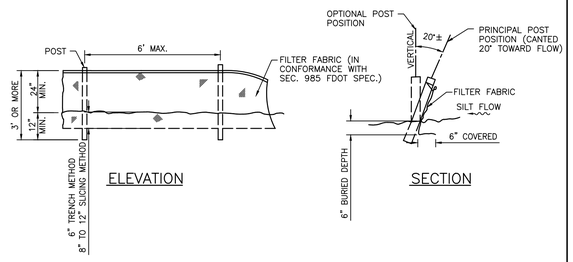
Drawing No.
105

ORIGINAL SHEET - ARCH D



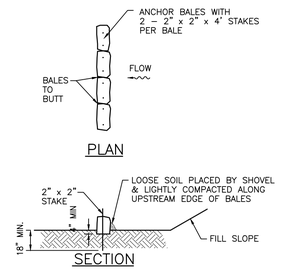
WETLAND BUFFER
N.T.S.

FIGURE 1



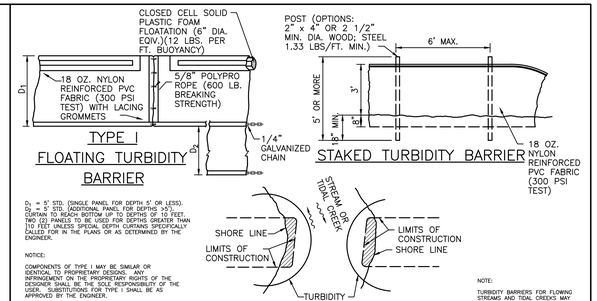
TYPICAL SILT FENCE
N.T.S.

FIGURE 2



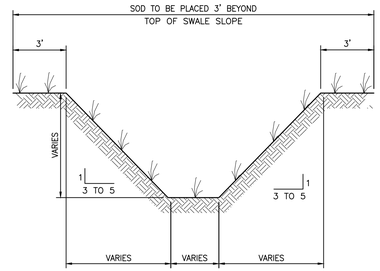
TYPICAL BALE SILT BARRIER
N.T.S.

FIGURE 3



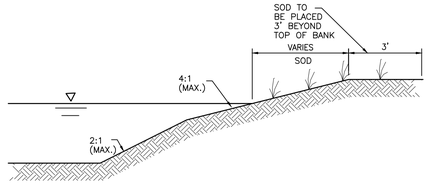
TURBIDITY BARRIER APPLICATIONS
TURBIDITY BARRIERS
N.T.S.

FIGURE 4



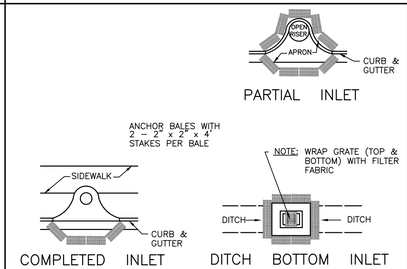
TYPICAL SWALE SECTION
N.T.S.

FIGURE 5



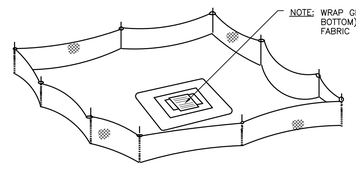
TYPICAL RETENTION/DETENTION POND SECTION
N.T.S.

FIGURE 6



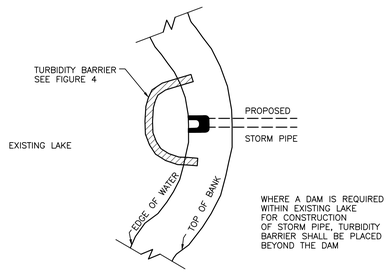
PROTECTION AROUND INLETS OR SIMILAR STRUCTURES
N.T.S.

FIGURE 7



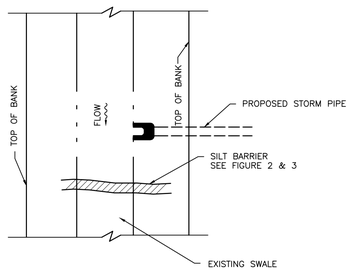
STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM INLETS
N.T.S.

FIGURE 8



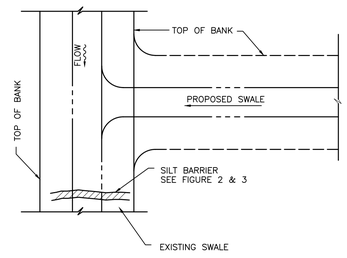
TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE
N.T.S.

FIGURE 9



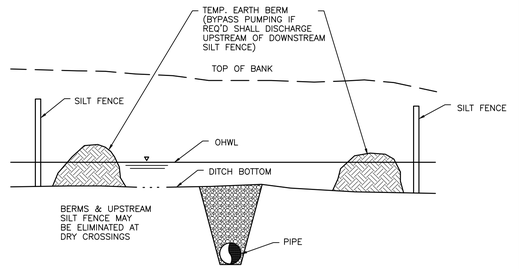
SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE
N.T.S.

FIGURE 10



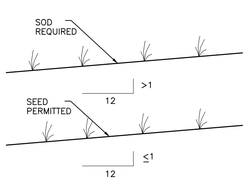
SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE
N.T.S.

FIGURE 11



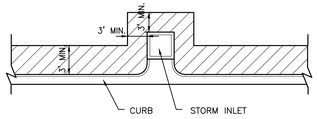
UNDERGROUND PIPE CROSSING
N.T.S.

FIGURE 12



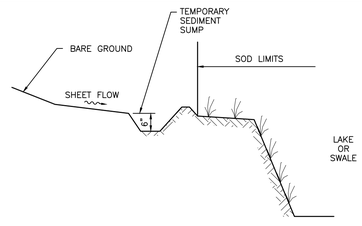
GRASS SLOPES
N.T.S.

FIGURE 13



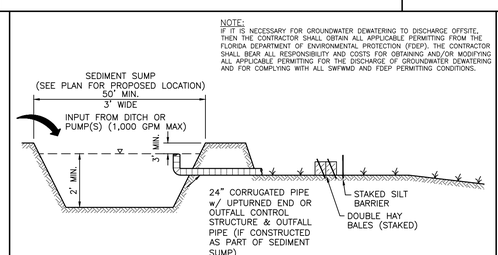
SOD ALONG CURB AND AROUND INLET
N.T.S.

FIGURE 14



TEMPORARY SEDIMENT SUMP
N.T.S.

FIGURE 15



SEDIMENT SUMP SECTION
N.T.S.

FIGURE 16

CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION

OWNER/APPLICANT SIGNATURE DATE

OWNER:
TITLE:
COMPANY:

Stantec
Stantec Consulting Services Inc.
6920 Professional Parkway East
Sarasota FL 34240-8414
Tel: (941) 907-3900
www.stantec.com

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No.	By	Appd	YYYY.MM.DD	Revision / Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-702ED

Scale:

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
BEST MANAGEMENT PRACTICES DETAILS

Revision: Sheet: 106 of 126

Drawing No.
106

v:\215k\active\215617221\ca\drawing\01c_cons\sheet_files\215617221-01c-702ed_Layout1.dwg
SAVED: 2/16/2023 10:54:18 AM BY COLE PLOTTED: 2/17/2023 3:37:38 PM BY COLE

ORIGINAL SHEET - ARCH D

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 PROPOSED EASTBOUND LANES OF MOCCASIN WALLOW ROAD ON THE SOUTH SIDE OF THE EXISTING ASPHALT. TRAFFIC WILL BE MAINTAINED ON THE EXISTING LANES OF MOCCASIN WALLOW ROAD. LAKE 2-1 WILL ALSO BE CONSTRUCTED IN PHASE 1. TEMPORARY PAVEMENT IS CONSTRUCTED ON THE WEST END OF THE PROJECT TO BE USED IN PHASE 2. THIS IS BASED ON FDOT DESIGN STANDARD PLAN NO. 102-602.

PHASE 1B WILL BE THE CONSTRUCTION OF THE ENTRANCES ON THE SOUTH SIDE OF THE ROAD AT SAWGRASS STORAGE, BAYSIDE CHURCH, SAWGRASS RD, WESTERNWOODS AVE, AND SUMMERWOODS DRIVE. THESE ENTRANCES MUST BE CONSTRUCTED PRIOR TO SHIFTING THE TRAFFIC FOR PHASE 2.

PHASE 2 SHALL CONSIST OF CONSTRUCTING FROM THE SOUTH EXISTING EDGE OF PAVEMENT TO THE NORTH RIGHT OF WAY LINE. THIS WILL INCLUDE THE CONSTRUCTION OF THE WESTBOUND LANES AND THE REMAINING WIDTH OF THE EAST BOUND LANES. TRAFFIC WILL BE TRAVELING ON THE CONSTRUCTED EASTBOUND LANES, AND SIDEWALK ACCESS ON THE SOUTH SIDE OF THE ROAD WILL BE AVAILABLE. SANDY BLUFF CIRCLE WILL NEED TO BE CLOSED DURING PHASE 2 AND ACCESS FOR THE NEIGHBORHOOD WILL BE THROUGH BAHIA LAKES DRIVE. THIS IS BASED ON FDOT DESIGN STANDARD PLAN NO. 102-602.

PHASE 2B WILL INCLUDE THE REMOVAL OF THE TEMPORARY PAVEMENT AND THE CONSTRUCTION OF BAHIA LAKES DRIVE,

THE CONTRACTOR SHALL MAINTAIN FUNCTIONING ACCESS TO EXISTING ALL BUSINESSES AND RESIDENTIAL DEVELOPMENT IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 102-600 THROUGHOUT THE DURATION OF CONSTRUCTION. ANY EXCEPTIONS WILL REQUIRE APPROVAL BY BOTH THE ENGINEER OF RECORD AND THE COUNTY ENGINEER.

TRAFFIC CONTROL FOR THE INTERSECTIONS 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.

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 CLOSURES WITH MAJOR DISRUPTION OR DELAYS MUST INCLUDE ALTERNATING TRAFFIC AND ARE ONLY PERMITTED UNDER SPECIAL APPROVAL OF THE OWNER, AND DURING NON-RUSH HOUR TRAFFIC TIME (9:00 AM - 2:00 PM OR 8:00 PM - 6:00 AM). SCHOOL DROP-OFF AND PICK-UP SHALL NOT BE IMPACTED.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. CONTRACTOR SHALL ESTABLISH TEMPORARY SIGNALIZATION AT THE INTERSECTION OF MOCCASIN WALLOW RD AND SAWGRASS RD AND HAVE IT OPERATIONAL WITHIN 90 DAYS OF CONTRACT START. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND DESIGN THAT MEETS MUTCD REQUIREMENTS. SIGNALIZATION SHALL INCLUDE VEHICLE DETECTION. COST OF SUCH WORK (INCLUDING BUT NOT LIMITED TO MATERIALS, LABOR, MAINTENANCE, AND RELOCATION OF DEVICES AS REQUIRED FOR CONTRACT SEQUENCING), SHALL BE INCLUDED UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

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 A-FRAME OR OTHER NON-POST MOUNTED 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 runout 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 a 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 foot from the edge of travel way up to 18' height.
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).
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 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

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-601TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN GENERAL NOTES

Revision: Sheet: 107 of 126

Drawing No.
107

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ORIGINAL SHEET - ARCH D

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	

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.

REGULATORY SPEEDS IN WORK ZONES

Traffic Control Plans (TCP's) 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 I, Chapter 10.

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.

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.

INDEX 102-600
SHEET #3 OF 12

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No.	By	Appd	YYYY.MM.DD	Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-601TC

Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMP TRAFFIC CONTROL PLAN NOTES

Revision: Sheet: 108 of 126

Drawing No.
108

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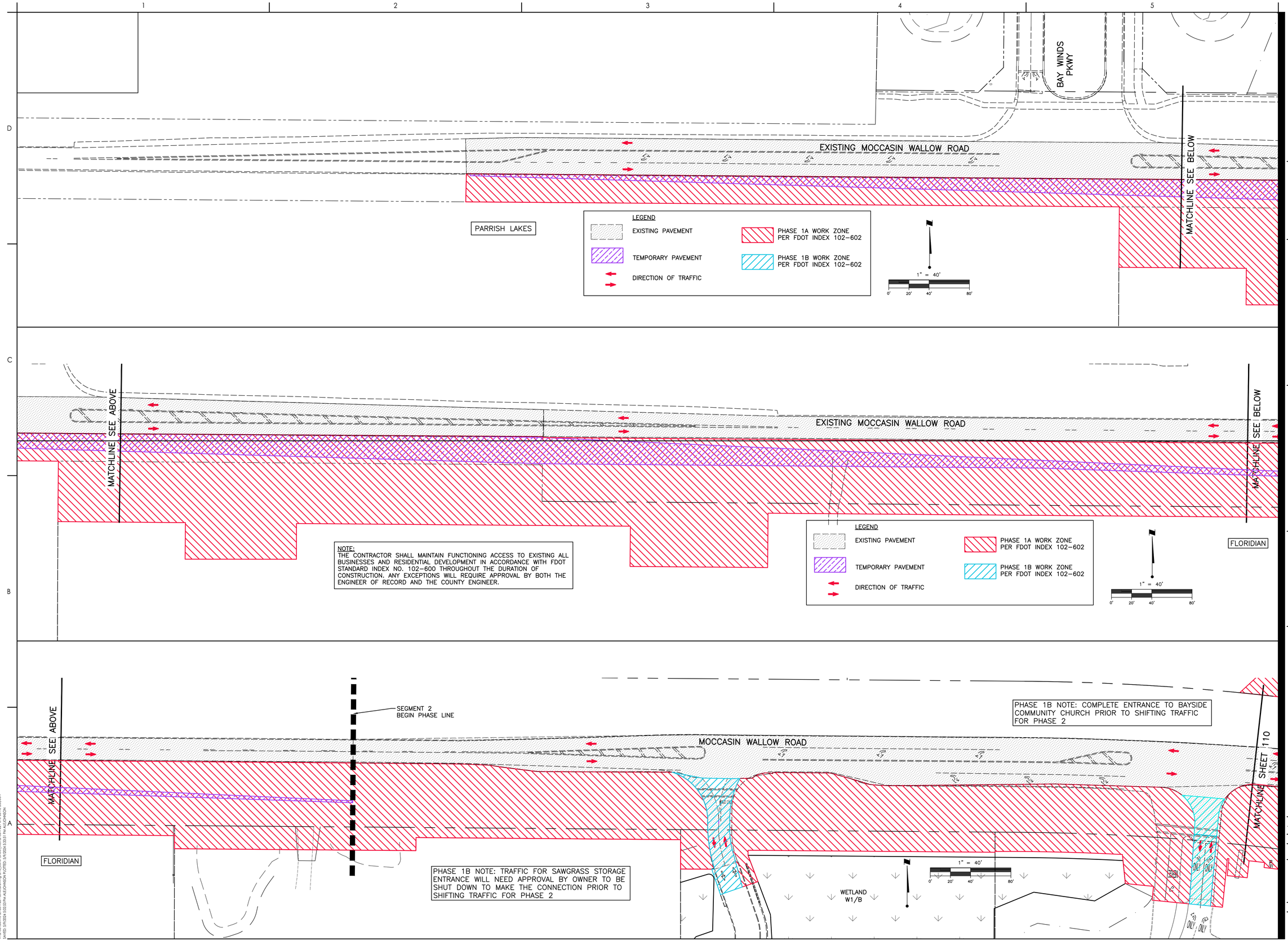

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B: REV VIEW OF TEMPORARY PAVEMENT			5/9/24

Issued	By	Appd	YYYY.MM.DD

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-601TC
Scale: 1" = 40'

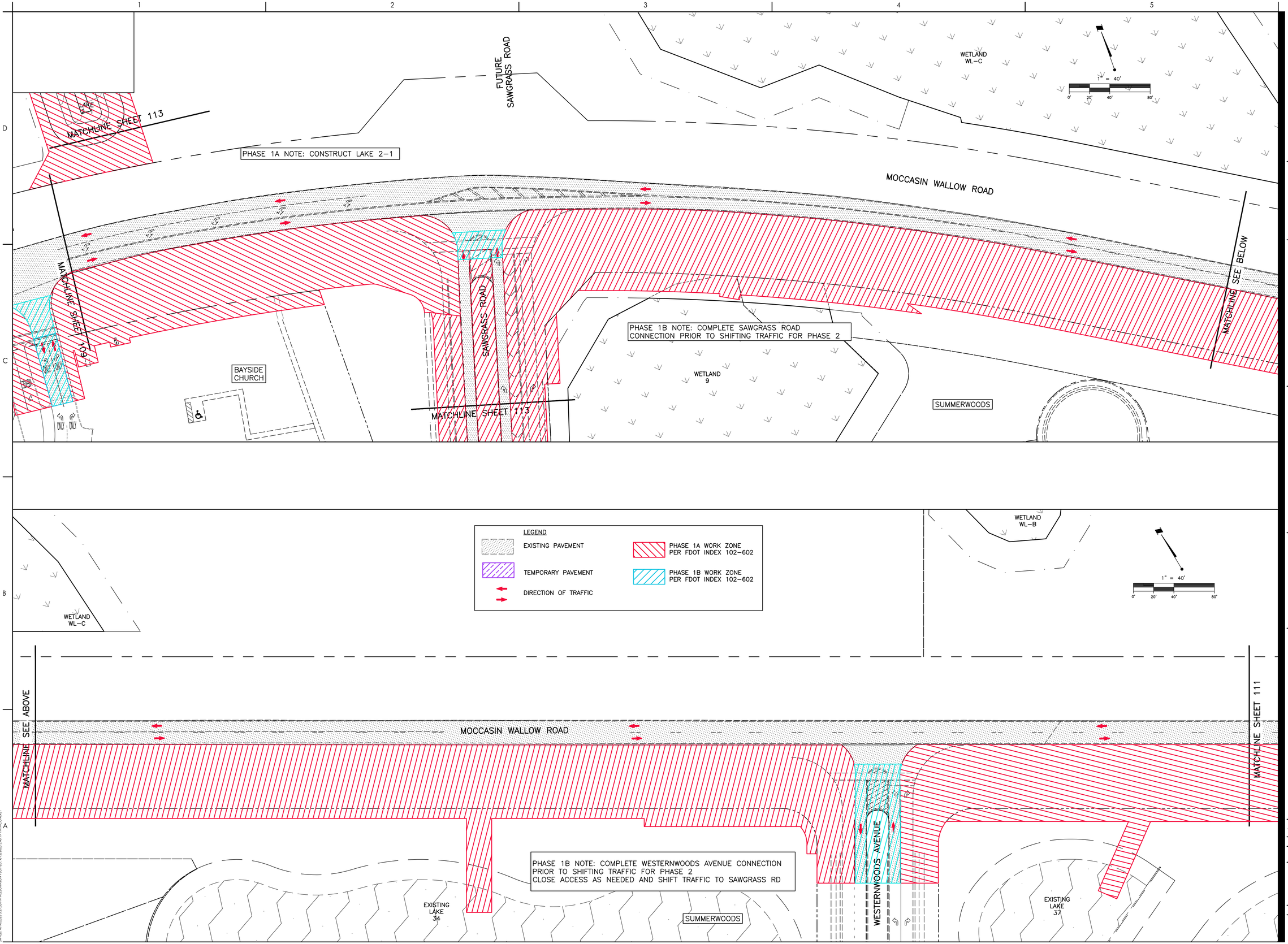
Drawn	Dsgn.	Chkd.	YYYY.MM.DD
			02/2022

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 109 of 126

Drawing No.
109

for material procurement and labor



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MOCCASIN WALLOW ROAD SEGMENT 2

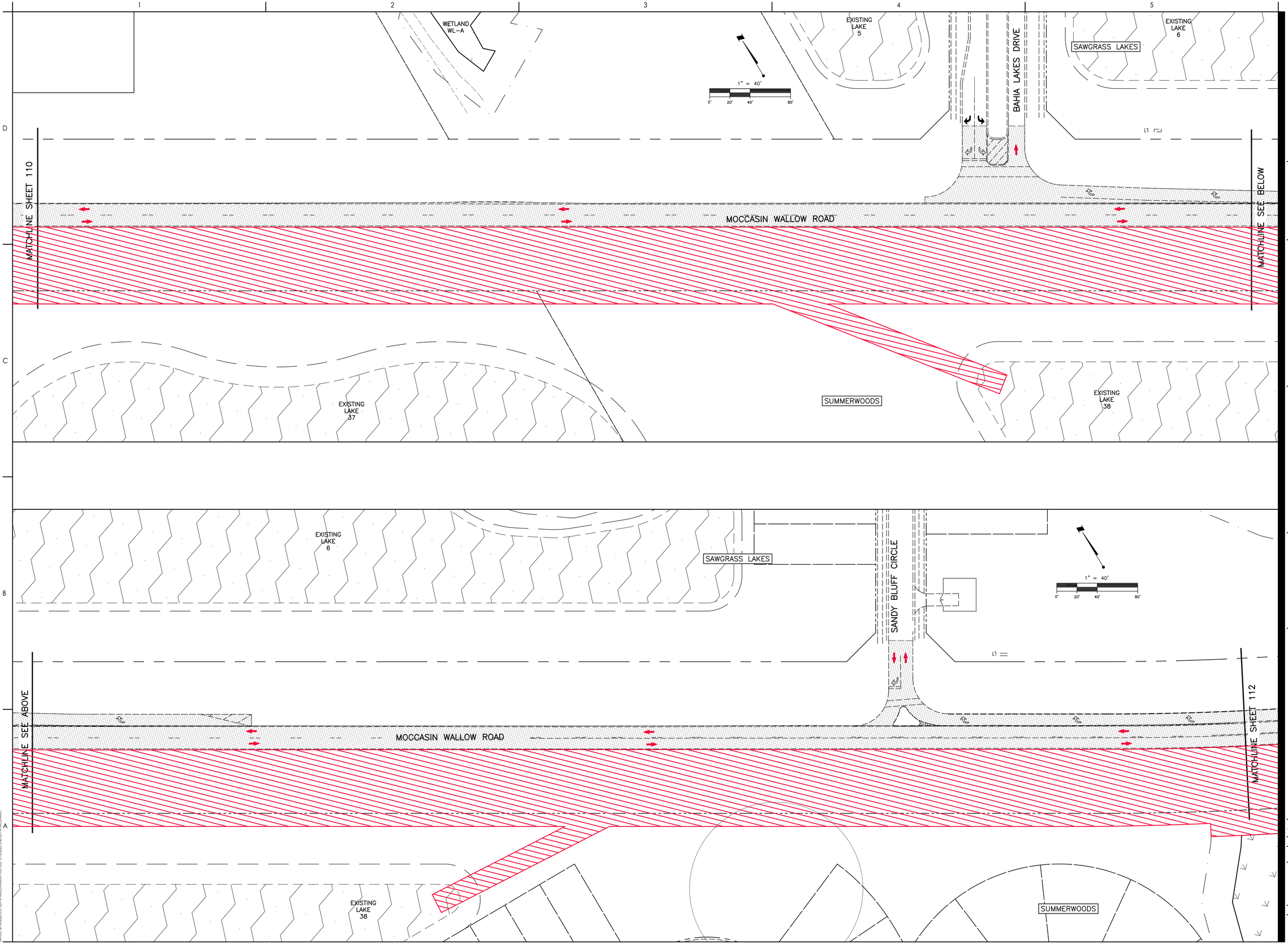
Project No.: 215617221
File Name: 215617221-01C-601TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 110 of 126

Drawing No.
110



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File Name: 215617221-01C-601TC

Scale: 1" = 40'

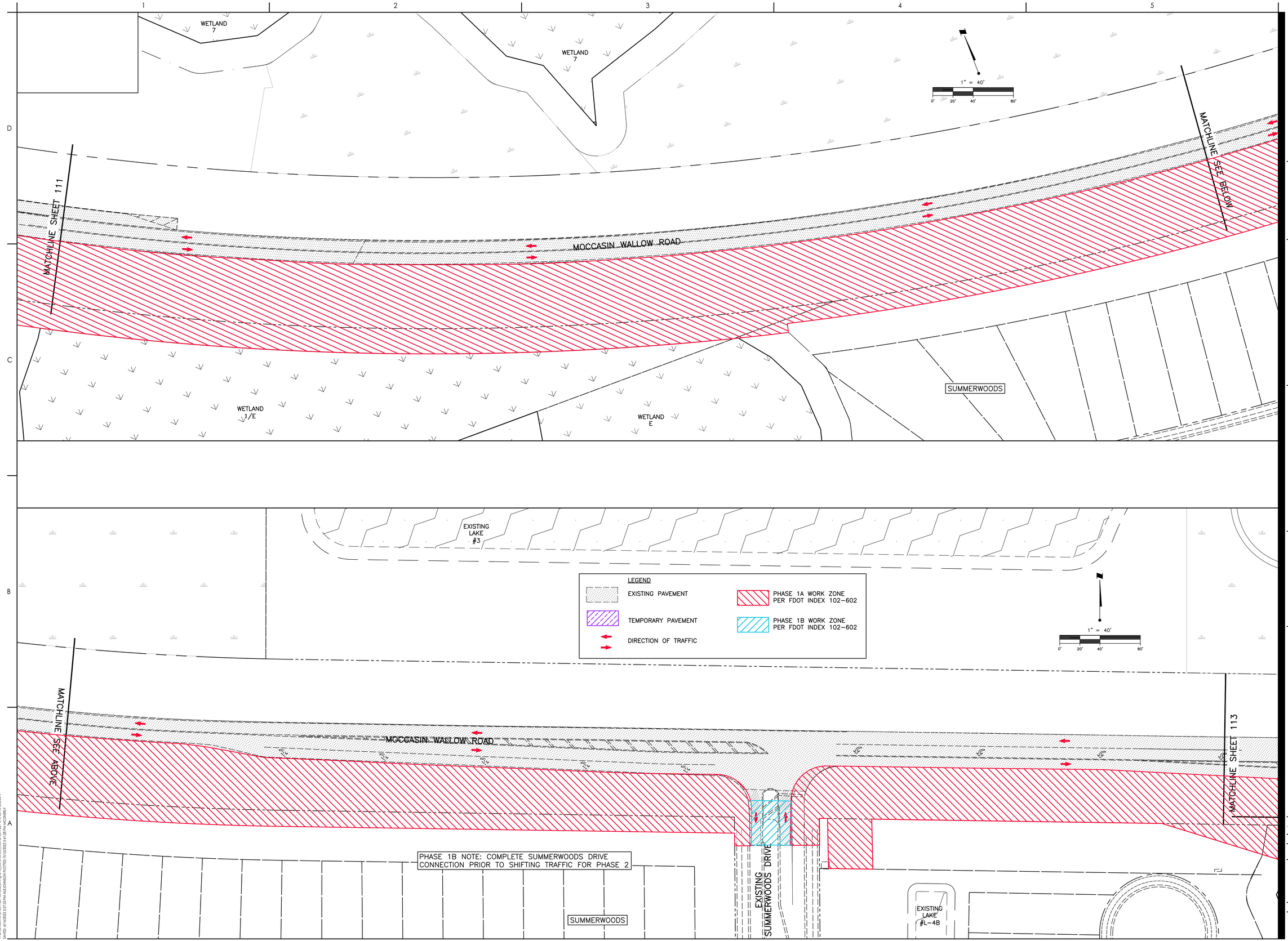
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 111 of 126

Drawing No.
111

ORIGINAL SHEET - ARCH D



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Scale: 1" = 40'

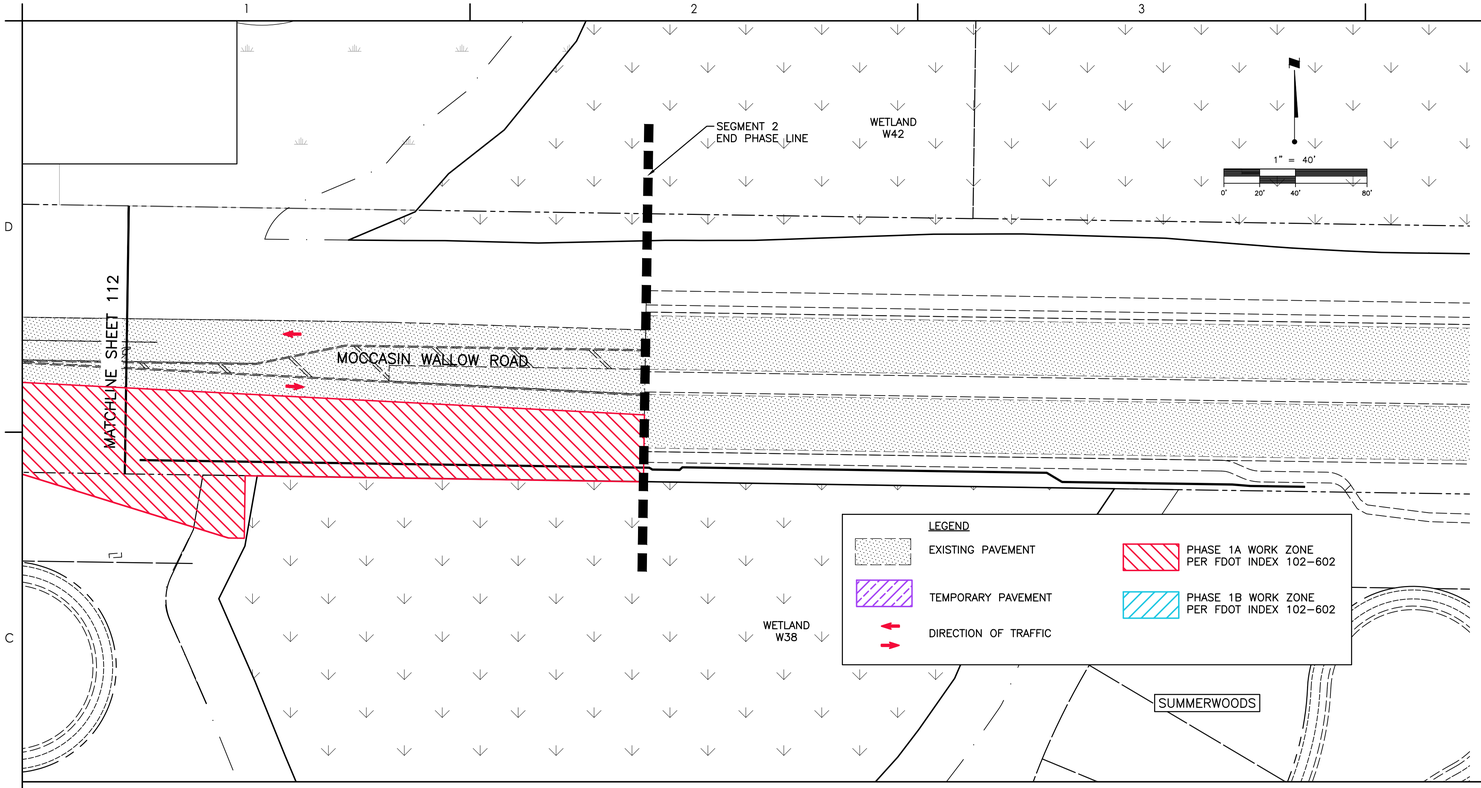
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

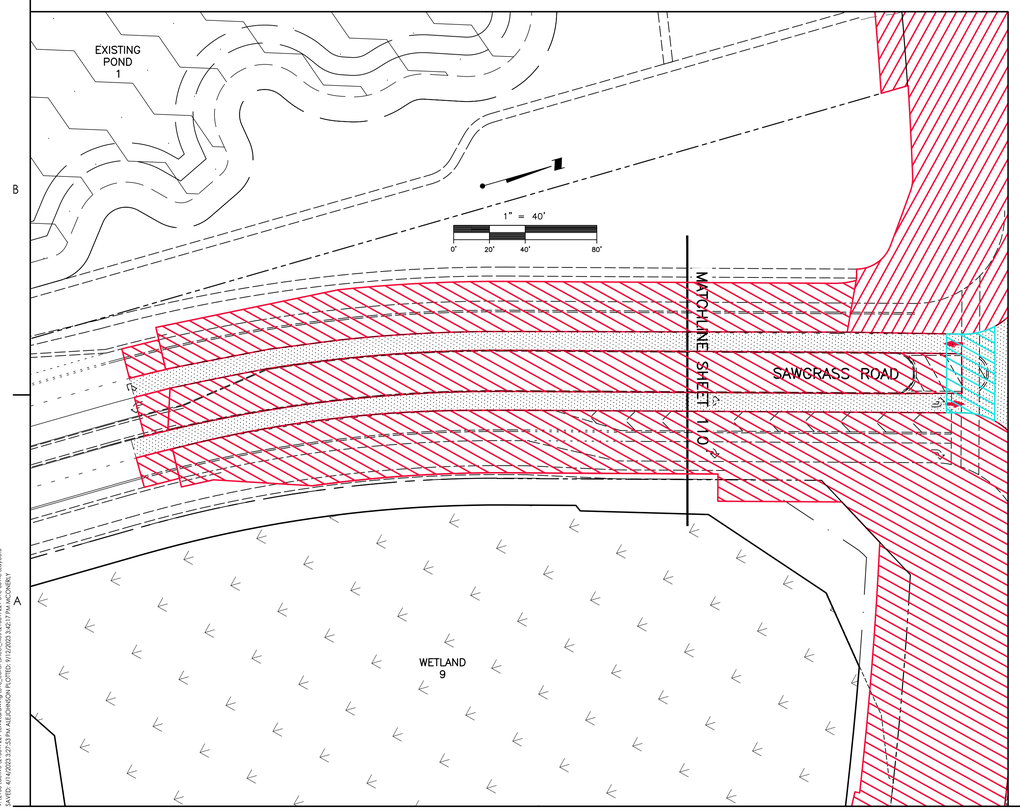
Title
TEMPORARY TRAFFIC CONTROL PLAN

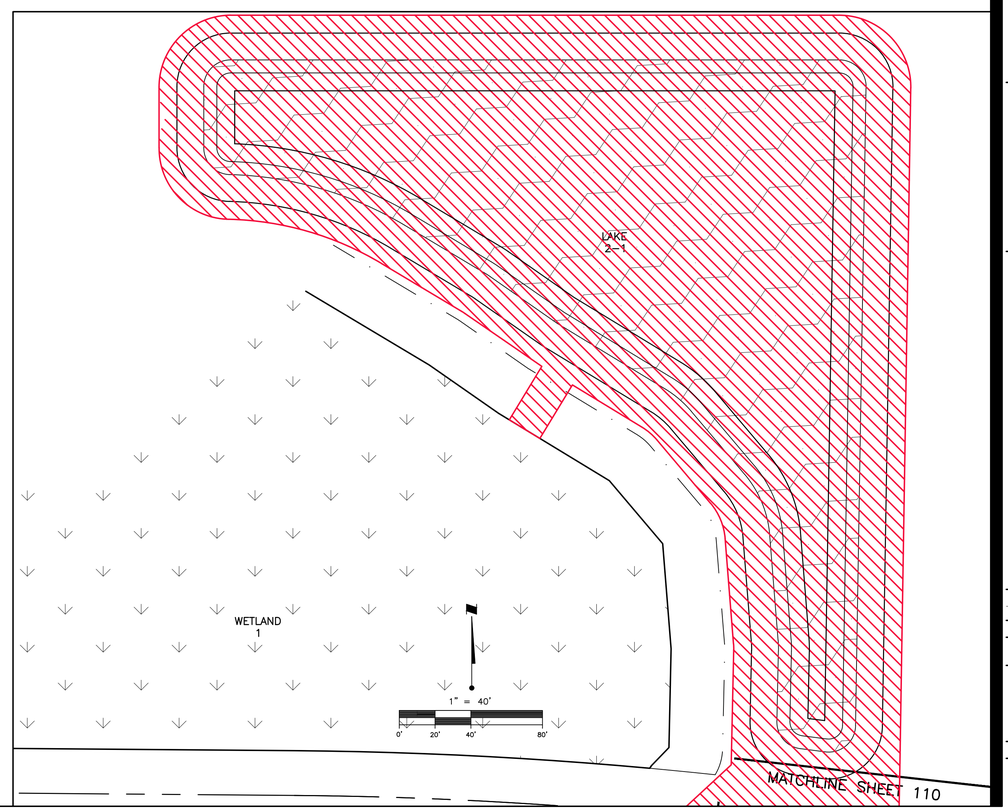
Revision: Sheet: 112 of 126

Drawing No.
112

ORIGINAL SHEET - ARCH D







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Issued	By	Appd	YYYY.MM.DD

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Project No.: 215617221
File Name: 215617221-01C-601TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 113 of 126

Drawing No.
113

ORIGINAL SHEET - ARCH D

EXISTING BAY WINDS PKWY.

EXISTING MOCCASIN WALLOW ROAD

72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+00 80+00 81+00 82+00 83+00

MATCHLINE SEE BELOW

PARRISH LAKES

LEGEND
EXISTING PAVEMENT
TEMPORARY PAVEMENT CONSTRUCTED IN PHASE 1
DIRECTION OF TRAFFIC

1" = 40'
0' 20' 40' 80'

WETLAND II

WETLAND HH

PKWY.

MATCHLINE SEE ABOVE

82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00

MOCCASIN WALLOW ROAD

MATCHLINE SEE BELOW

LEGEND
EXISTING PAVEMENT
TEMPORARY PAVEMENT
PAVEMENT CONSTRUCTED IN PHASE 1
PHASE 2 WORK ZONE PER FDOT INDEX 102-602
PHASE 2B WORK ZONE PER FDOT INDEX 102-602
DIRECTION OF TRAFFIC

NOTE:
THE CONTRACTOR SHALL MAINTAIN FUNCTIONING ACCESS TO EXISTING ALL BUSINESSES AND RESIDENTIAL DEVELOPMENT IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 102-600 THROUGHOUT THE DURATION OF CONSTRUCTION. ANY EXCEPTIONS WILL REQUIRE APPROVAL BY BOTH THE ENGINEER OF RECORD AND THE COUNTY ENGINEER.

1" = 40'
0' 20' 40' 80'

FLORIDIAN

SEGMENT 2 BEGIN PHASE LINE

MATCHLINE SEE ABOVE

94+00 95+00 96+00 97+00 98+00 99+00 100+00 101+00 102+00 103+00 104+00 105+00

MOCCASIN WALLOW ROAD

MATCHLINE SHEET 115

SAWGRASS STORAGE

WETLAND W1/B

1" = 40'
0' 20' 40' 80'

LEGEND
EXISTING PAVEMENT
TEMPORARY PAVEMENT
PAVEMENT CONSTRUCTED IN PHASE 1
PHASE 2 WORK ZONE PER FDOT INDEX 102-602
PHASE 2B WORK ZONE PER FDOT INDEX 102-602
DIRECTION OF TRAFFIC

ORIGINAL SHEET - ARCH D

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B. REV VIEW OF TEMPORARY PAVEMENT			5/9/24

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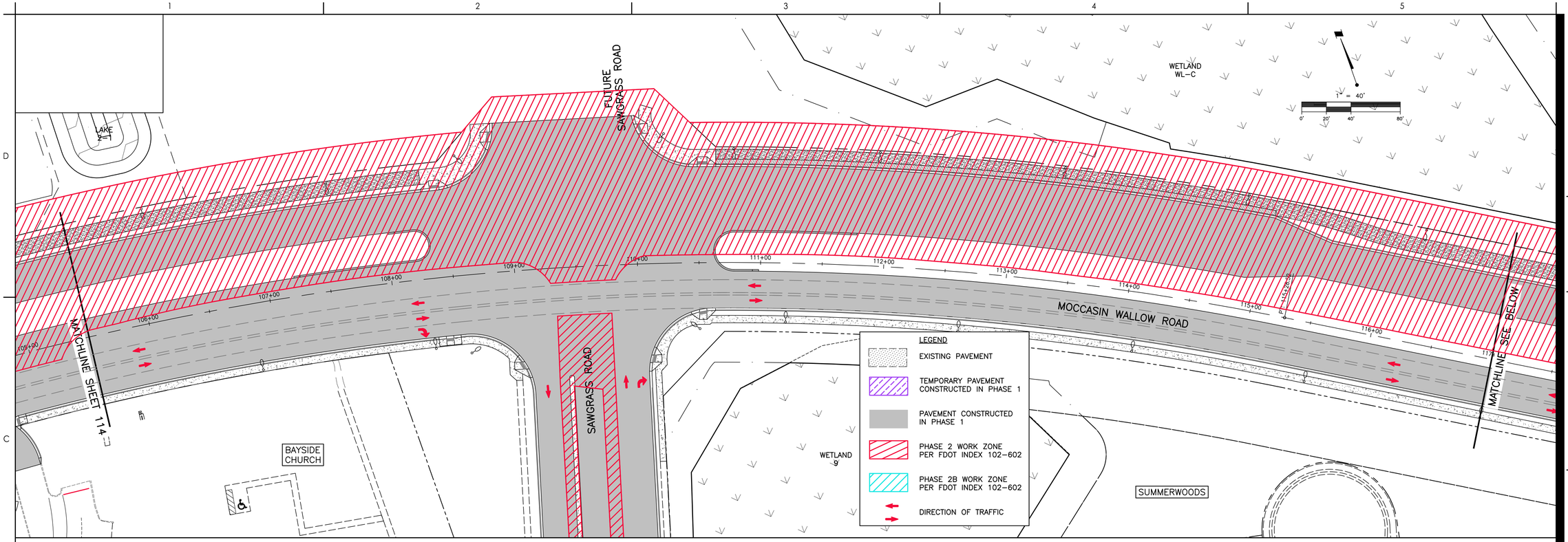
Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT
MOCCASIN WALLOW ROAD SEGMENT 2

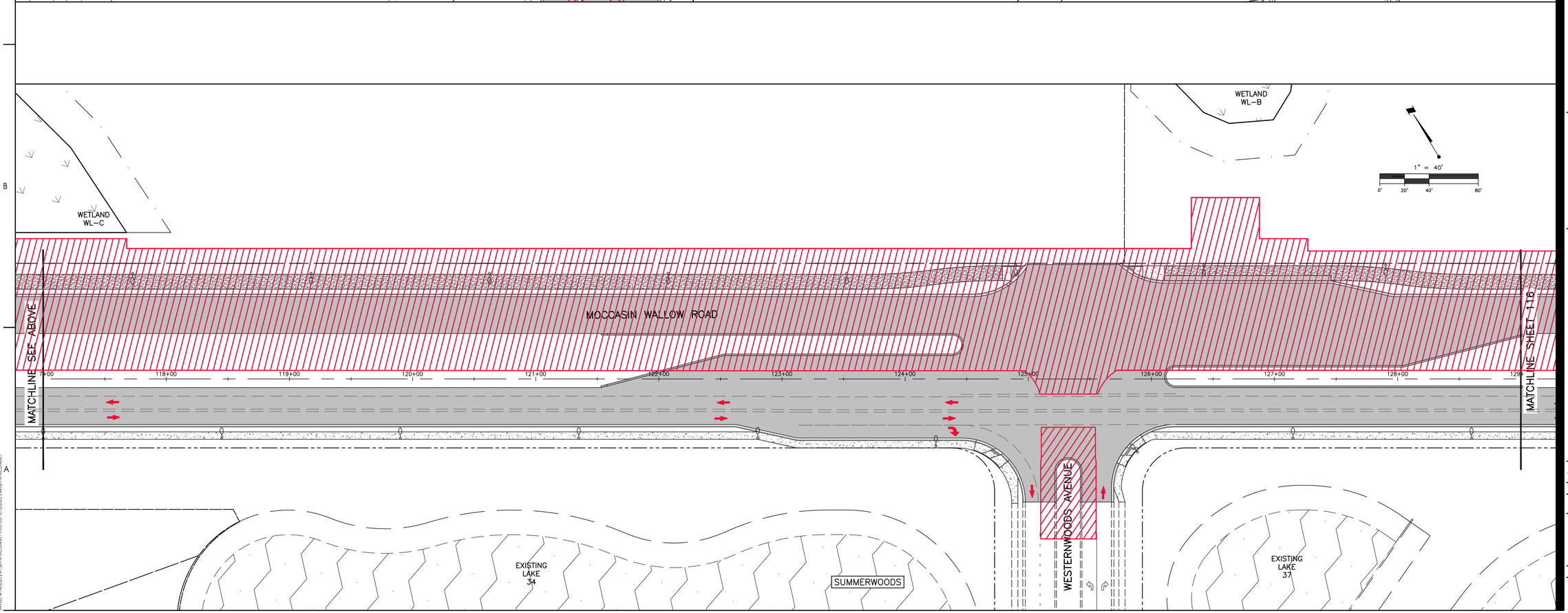
Project No.: 215617221
File Name: 215617221-01C-602TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 114 of 126
Drawing No.
114





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No.	Issued	By	Appd	YYYY.MM.DD

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Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 115 of 126

Drawing No.
115

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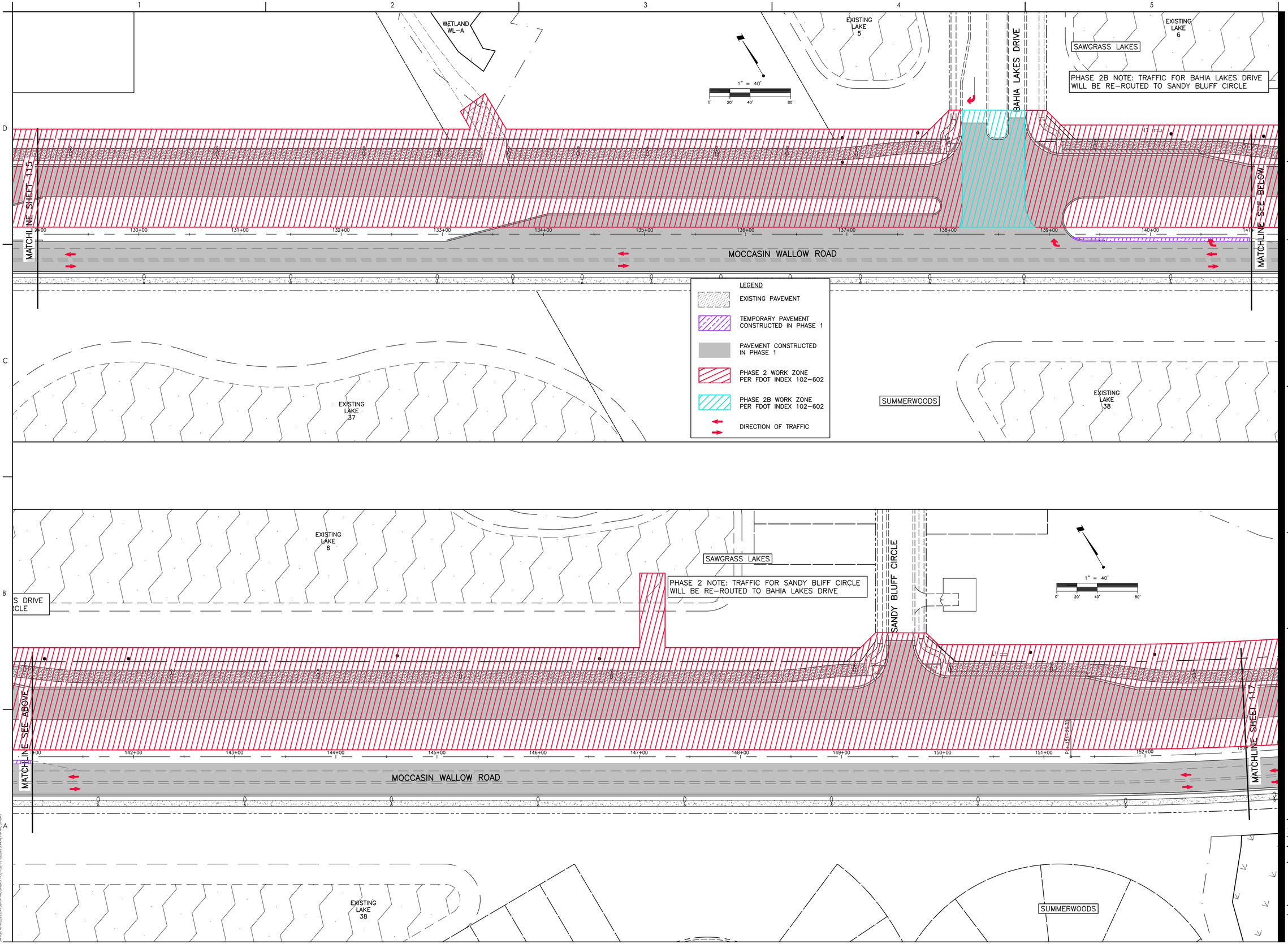

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By	Appd	YYYY.MM.DD

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Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 116 of 126

Drawing No.
116

ORIGINAL SHEET - ARCH D

WETLAND 7

WETLAND 7

1" = 40'
0' 20' 40' 80'

MATCHLINE SHEET 116

MATCHLINE SEE BELOW

MOCCASIN WALLOW ROAD

SUMMERWOODS

WETLAND 1/E

WETLAND E

LEGEND

EXISTING PAVEMENT

TEMPORARY PAVEMENT CONSTRUCTED IN PHASE 1

PAVEMENT CONSTRUCTED IN PHASE 1

PHASE 2 WORK ZONE PER FDOT INDEX 102-602

PHASE 2B WORK ZONE PER FDOT INDEX 102-602

DIRECTION OF TRAFFIC

EXISTING LAKE #3

1" = 40'
0' 20' 40' 80'

MATCHLINE SEE ABOVE

MOCCASIN WALLOW ROAD

MATCHLINE SHEET 118

EXISTING SUMMERWOODS DRIVE

SUMMERWOODS

EXISTING LAKE #L-4B

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No.	Revision	By	Appd	YYYY.MM.DD

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-602TC

Scale: 1" = 40'

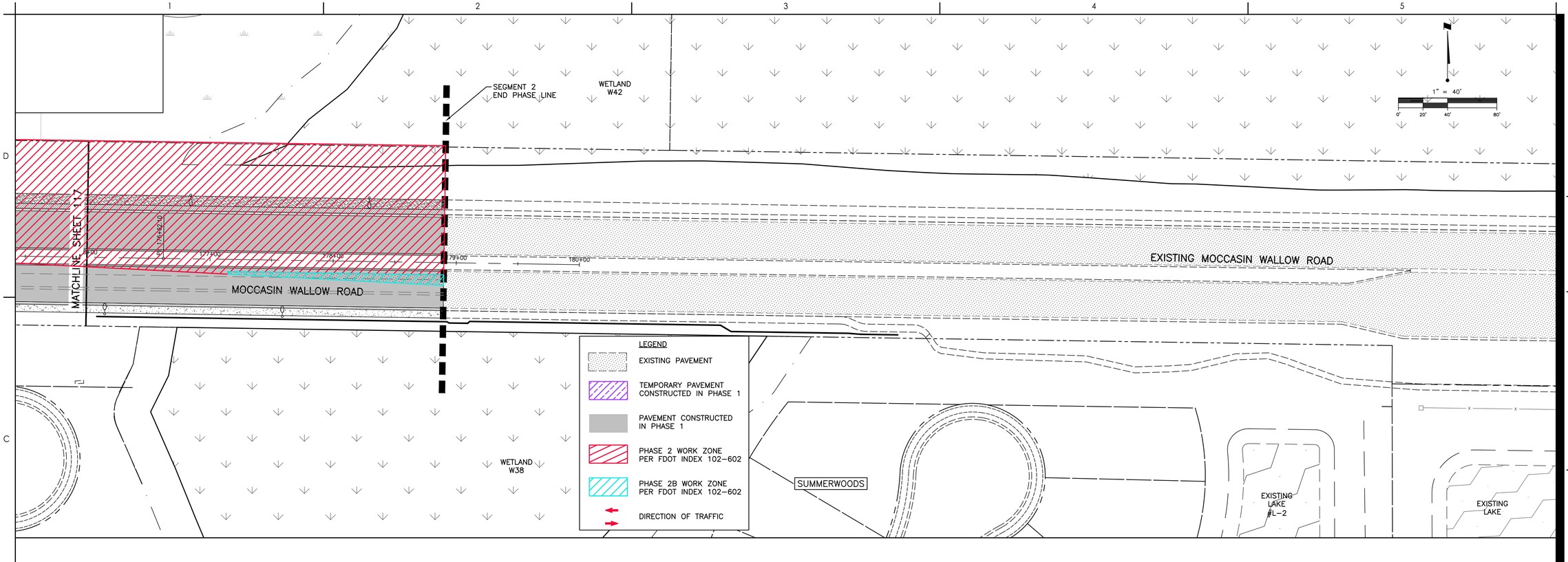
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 117 of 126

Drawing No.
117

x:\215\active\215617221\civil\drawing\01c_cons\sheet_files\215617221-01c-602tc\Layout4
SAVED: 4/14/2022 2:41:38 PM AM,CONNER T FLOTTER 4/14/2022 3:44:57 PM AM,CONNER T
ORIGINAL SHEET - ARCH D



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Revision

By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-602TC
Scale: 1" = 40'

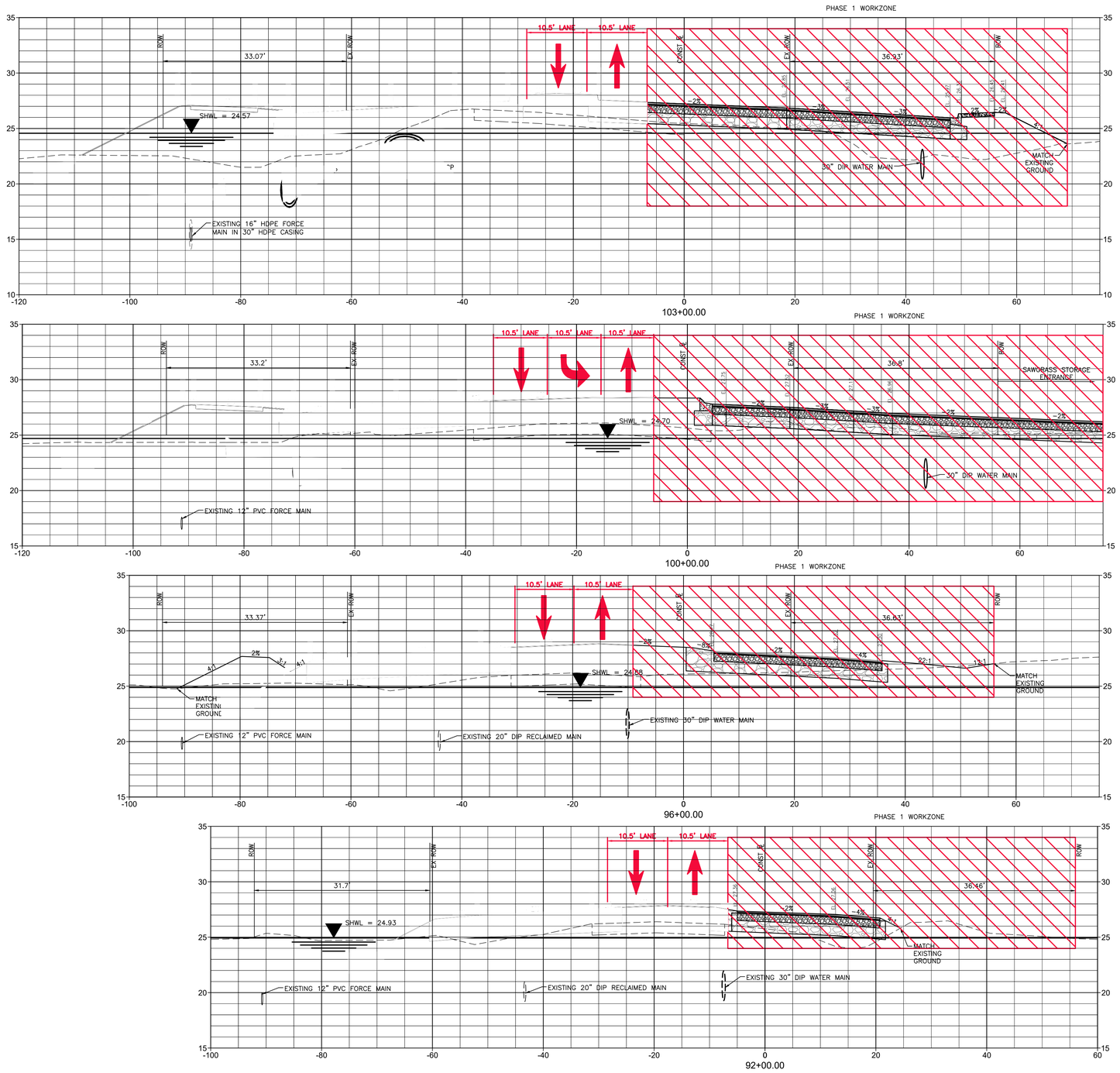
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 118 of 126

Drawing No.
118

ORIGINAL SHEET - ARCH D



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No.	Revision	By	Appd	Issued
B	ADD EX. ASPHALT LIMITS	MSC		5/9/24 YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-603TC

Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

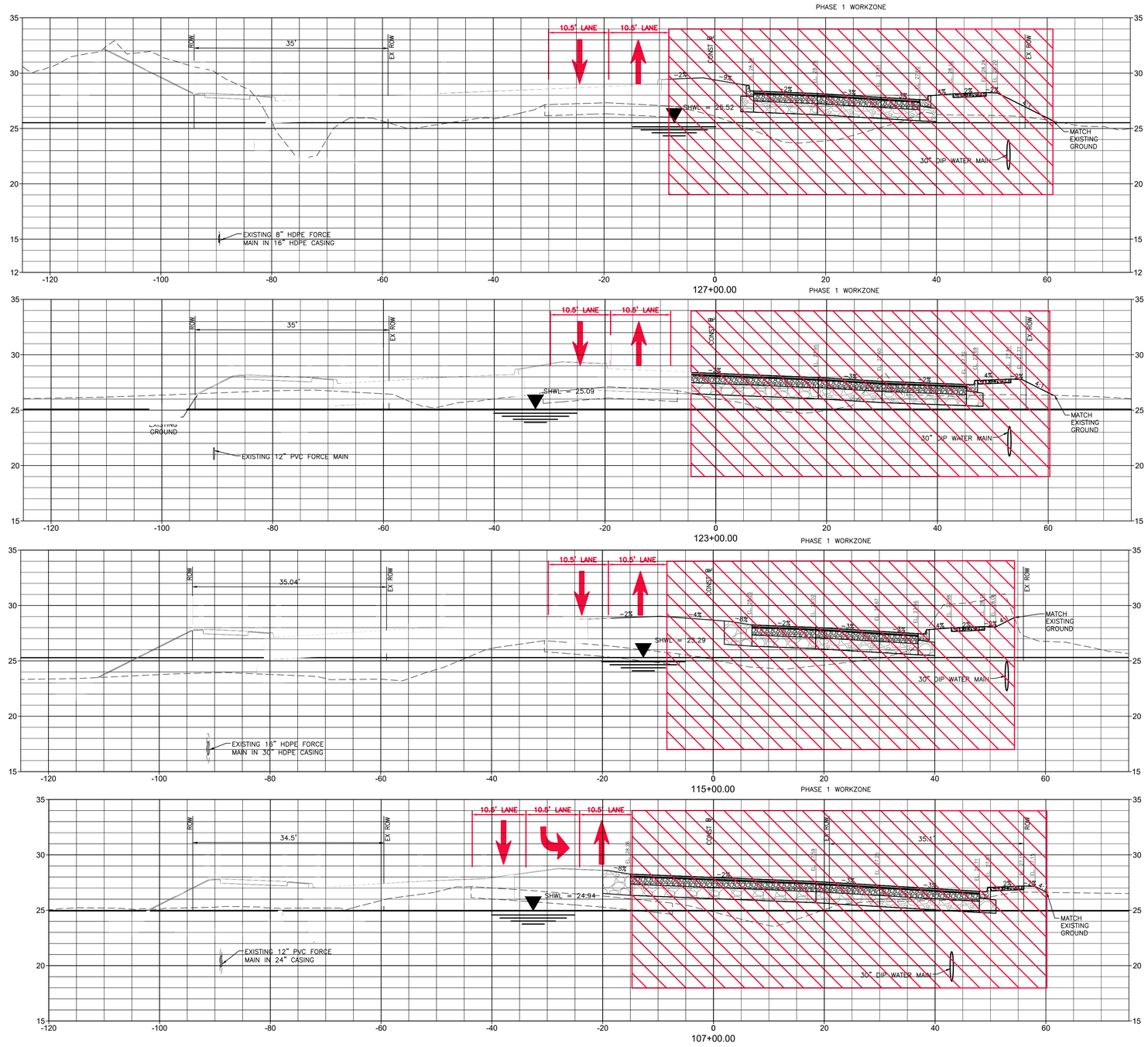
Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 119 of 126

Drawing No.
119

v:\215617221\active\215617221\civil\drawings\01c_cover\sheet_files\215617221-01c-603tc Layout1
5/9/2024 5:10:20PM 5/9/2024 7:33:36AM PM MACONNER, P PLOTTED: 5/10/2024 7:24:20 PM MACONNER

ORIGINAL SHEET - ARCH D



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No.	Revision	By	Appd	YYYY.MM.DD
B	ADD EX ASPHALT LIMITS	MSC		5/9/24

No.	By	Appd	YYYY.MM.DD

Issued

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221

File Name: 215617221-01C-603TC

Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

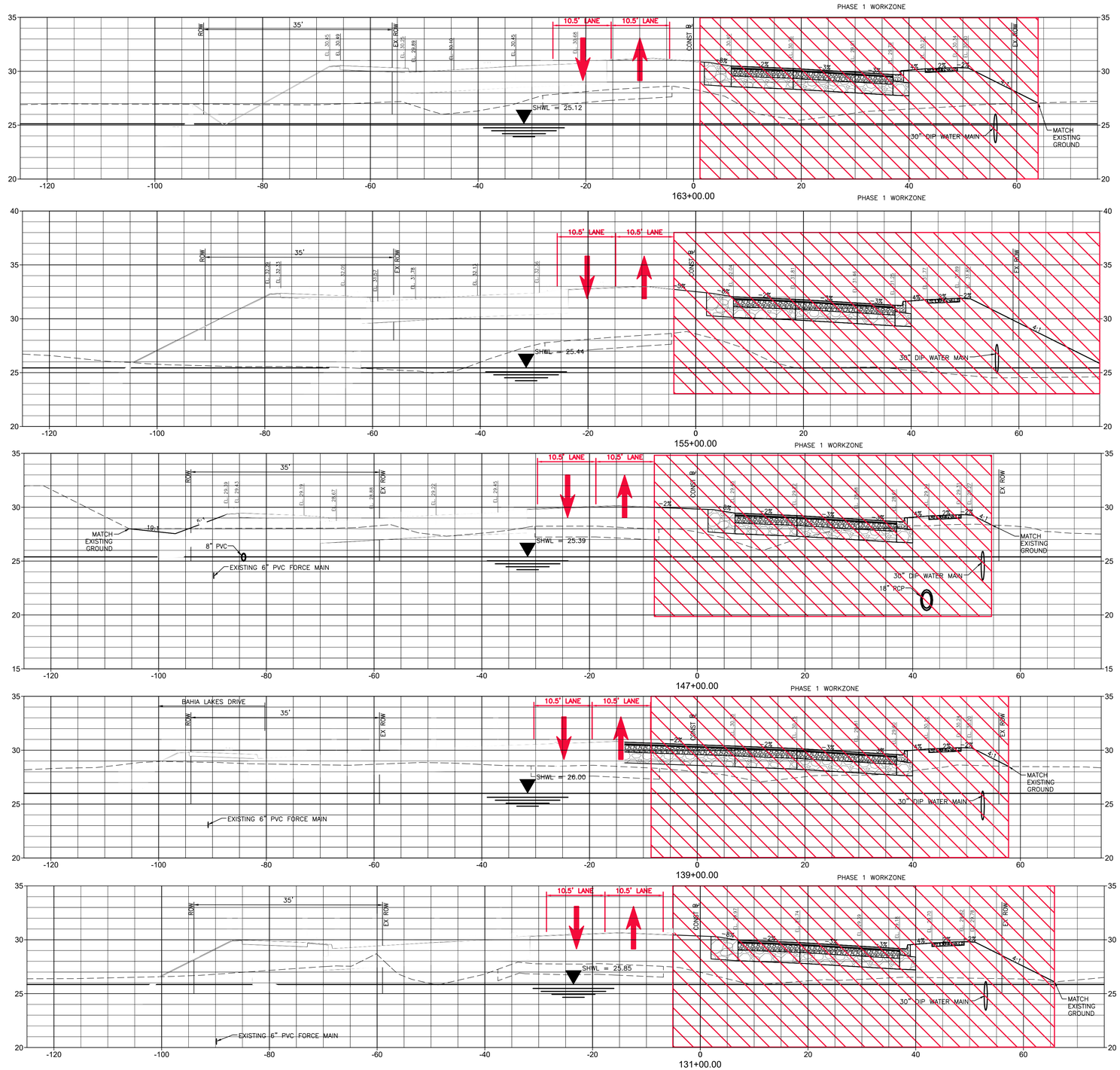
Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 120 of 126

Drawing No.
120

x:\215617221\engineering\01c_construction\sheet_files\215617221-01c-603tc\layout\2
LAYOUT: 5/10/2024 1:32:14 PM AUTOMAP PLOTTED: 5/10/2024 1:39:47 PM BY: CHARLEY

ORIGINAL SHEET - ARCH D



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No.	Revision	By	Appd	YYYY.MM.DD
B1	ADD EX ASPHALT LIMITS	MSC		5/9/24

No.	Issued	By	Appd	YYYY.MM.DD

Permit/Seal

Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 121 of 126

Drawing No.
121

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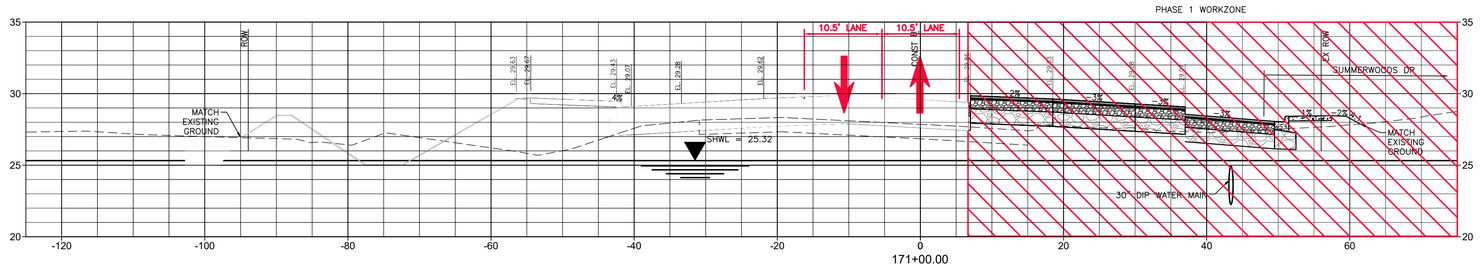

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B: ADD EX ASPHALT LIMITS	MSC		5/9/24

Issued	By	Appd	YYYY.MM.DD

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MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

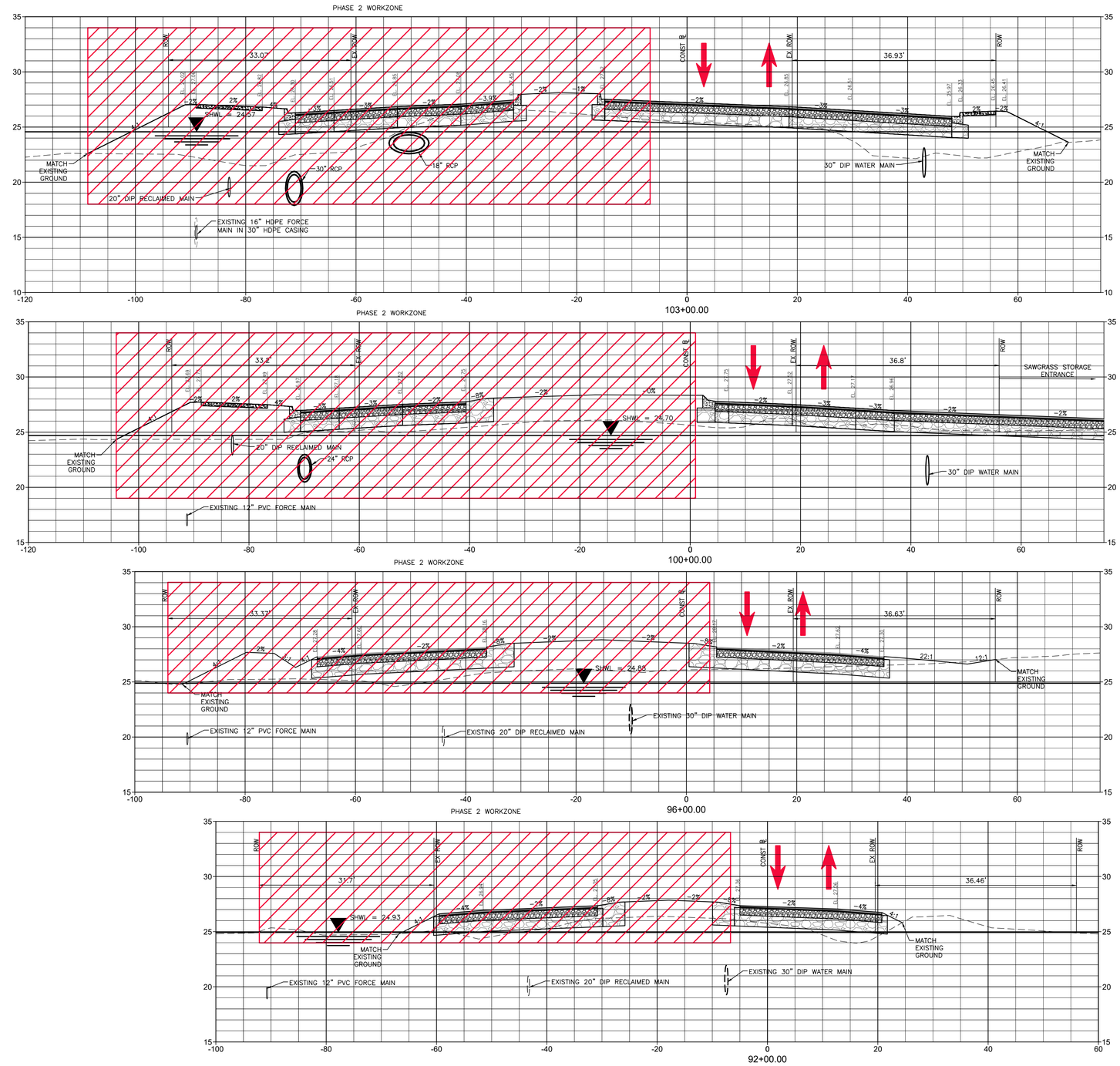
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 122 of 126

Drawing No.
122

ORIGINAL SHEET - ARCH D



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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

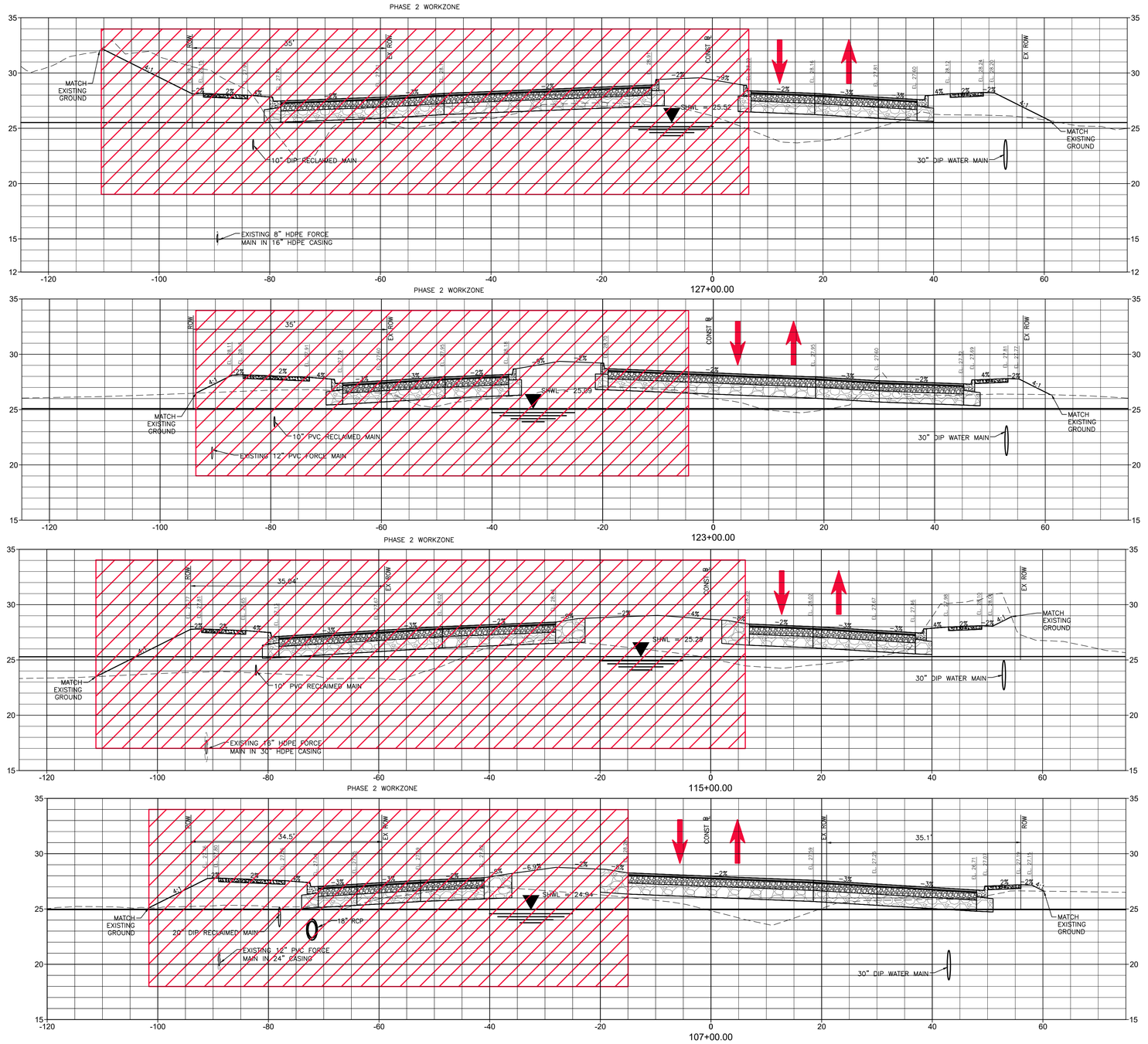
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 123 of 126

Drawing No.
123

ORIGINAL SHEET - ARCH D



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No.	Issued	By	Appd	YYYY.MM.DD

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 124 of 126

Drawing No.
124

x:\215617221\engineering\drawings\01c_construction\sheet_files\215617221-01c-603tc\layout\
LAYOUT: 11x17(ANSI B) 4/14/2022 4:40:26 PM MICHAEL.PRITTS PLOTTED: 11/10/2023 3:57:58 PM by MICHAEL.PRITTS
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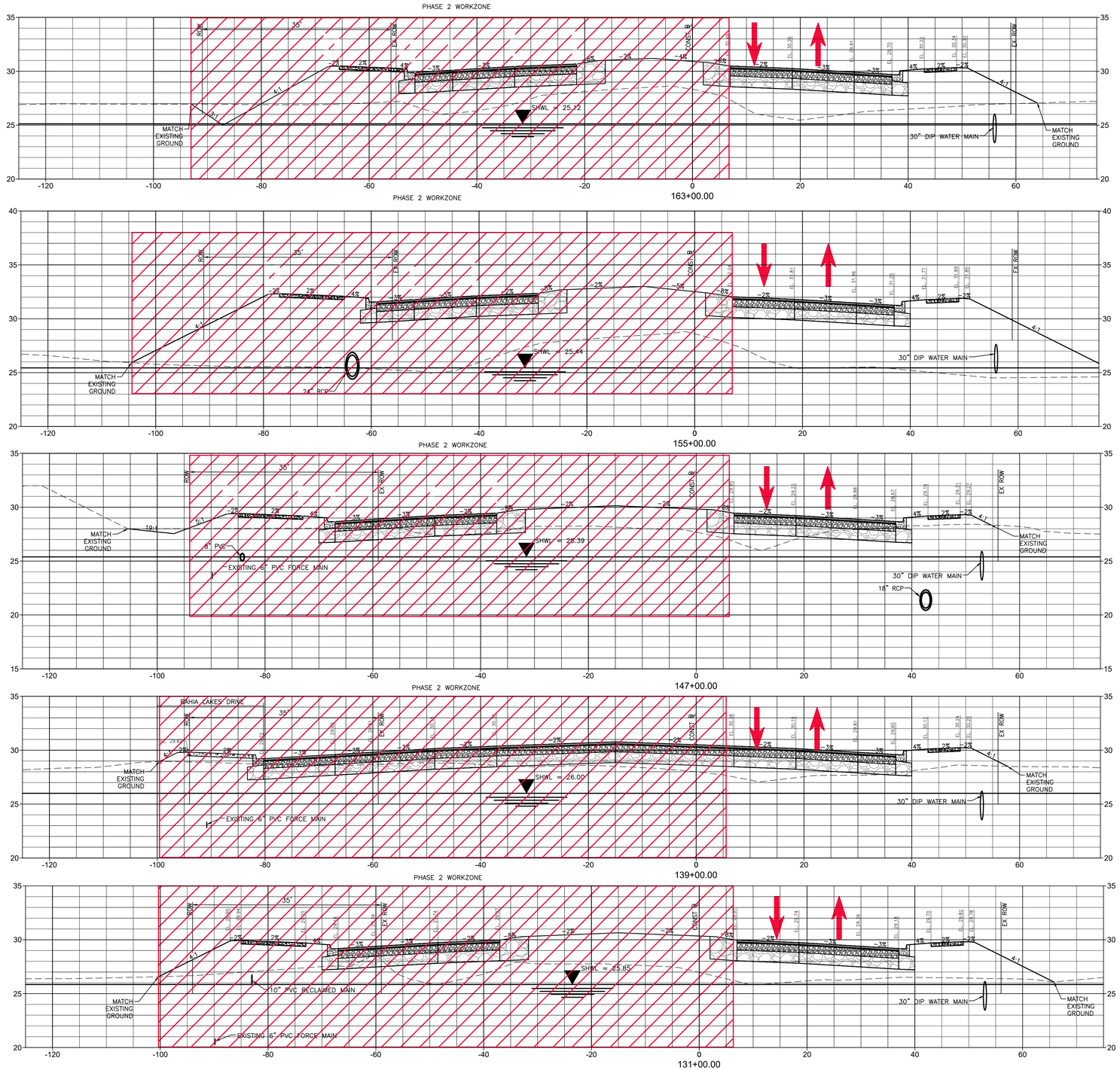

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MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

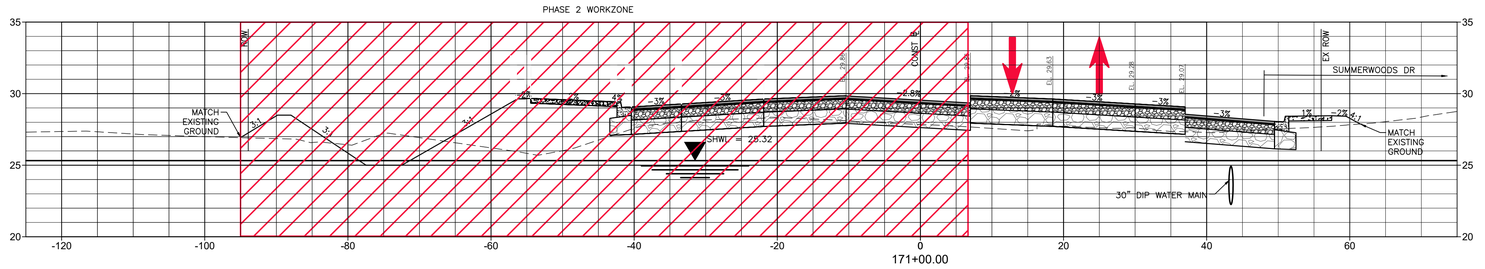
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 125 of 126

Drawing No.
125

ORIGINAL SHEET - ARCH D



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Client/Project
MANATEE COUNTY PUBLIC WORKS DEPARTMENT

MOCCASIN WALLOW ROAD SEGMENT 2

Project No.: 215617221
File Name: 215617221-01C-603TC
Scale: 1" = 40'

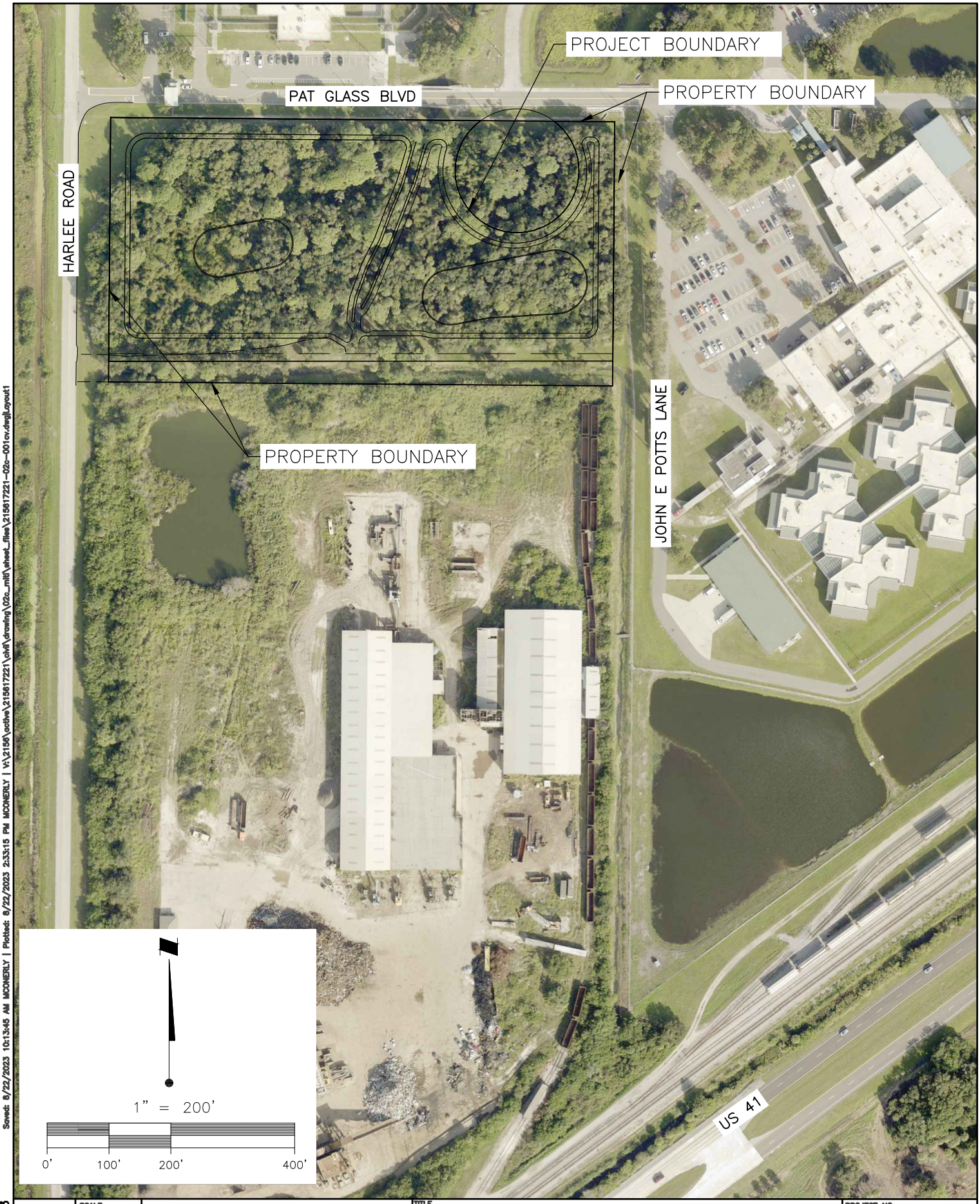
Drawn	Dsgn.	Chkd.	02/2022 YYYY.MM.DD

Title
TEMPORARY TRAFFIC CONTROL PLAN

Revision: Sheet: 126 of 126

Drawing No.
126

ORIGINAL SHEET - ARCH D



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SCALE: 1" = 200'	Stantec STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	TITLE: PROJECT LOCATION	PROJECT NO. 215617221	
LEAD TECH.		PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-001cv	
SEC-TWP-RGE 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 1 OF 11
△REV NO. DATE				

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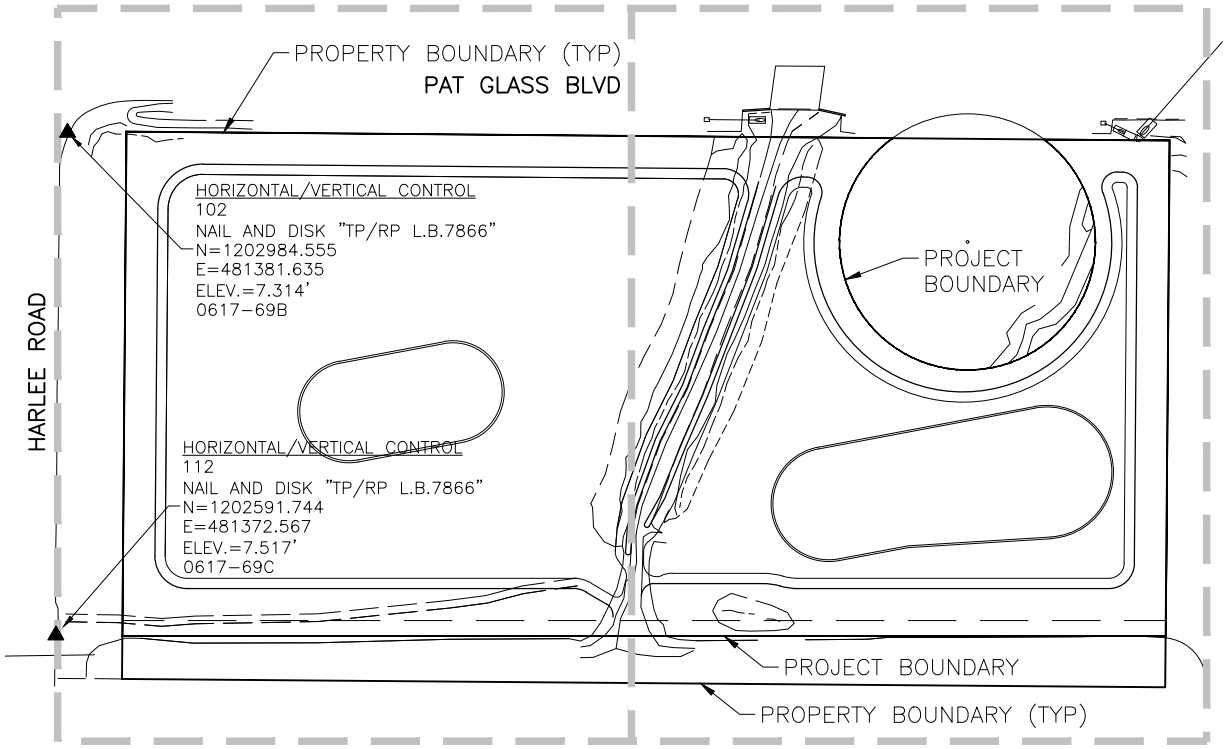
EXISTING CONDITIONS SHEET 3
GRADING PLAN SHEET 5
PLANTING PLAN SHEET 9

EXISTING CONDITIONS SHEET 4
GRADING PLAN SHEET 6
PLANTING PLAN SHEET 10



LEGEND

00.00EP	=	EDGE OF PAVEMENT
00.0FC	=	FENCE, CHAIN LINK
00.0FL	=	FLOW LINE
00.0GB	=	GRADE BREAK
00.00SW	=	EDGE OF CONCRETE/WALK
00.0TB	=	TOP OF BANK
00.0TS	=	TOE OF SLOPE
00.0	=	NATURAL GROUND ELEVATION
OHWL	=	ORDINARY HIGH WATER LEVEL
MEG	=	MATCH EXISTING GRADE

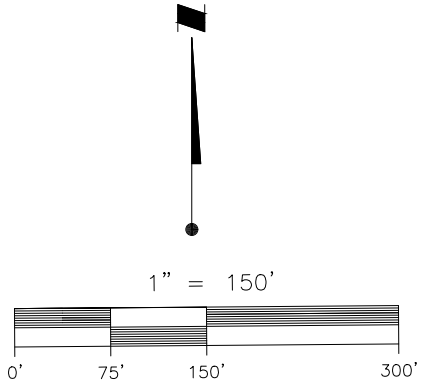
----XX---- EXISTING CONTOUR (NAVD-88)
——XX—— PROPOSED CONTOUR (NAVD-88)
+X.X EXISTING ELEVATION (NAVD-88)
(XX.XX) PROPOSED ELEVATION (NAVD-88)
DIRECTION OF DRAINAGE FLOW
SILT FENCE
EXISTING DIRT PATH
PROPOSED ACCESS PATH (GRASS)

NOTES
1. TOTAL PROPERTY AREA = 8.00 ACRES
   TOTAL PROJECT AREA = 6.62 ACRES

2. ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC SURVEY MONUMENTS "872 6384 K TIDAL" AND "JEG" HAVING PUBLISHED ELEVATIONS OF 7.23 AND 5.12 FEET RESPECTIVELY, REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88).

3. EXISTING TOPOGRAPHIC DATA SHOWN FIELD COLLECTED BY STANTEC IN MAY 2023.

4. ANY DISTURBED AREAS SHALL BE PLANTED OR SODDED AS SPECIFIED.



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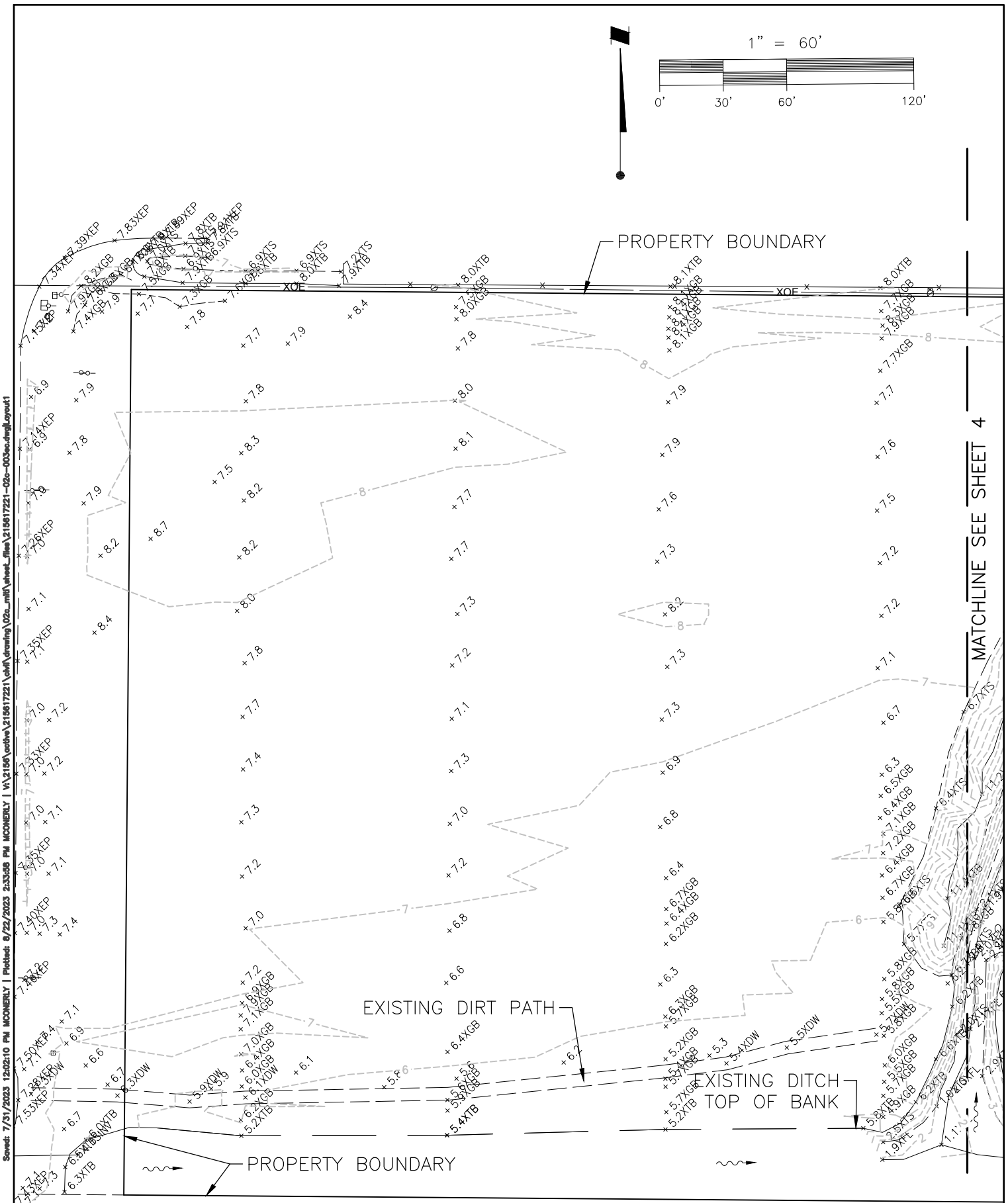
	SCALE: 1" = 150'	Stantec	TITLE: KEY SHEET	PROJECT NO. 215617221	
	LEAD TECH.	STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-002kp	
	SEC-TWP-RGE 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 2 OF 11
△REV NO. DATE					



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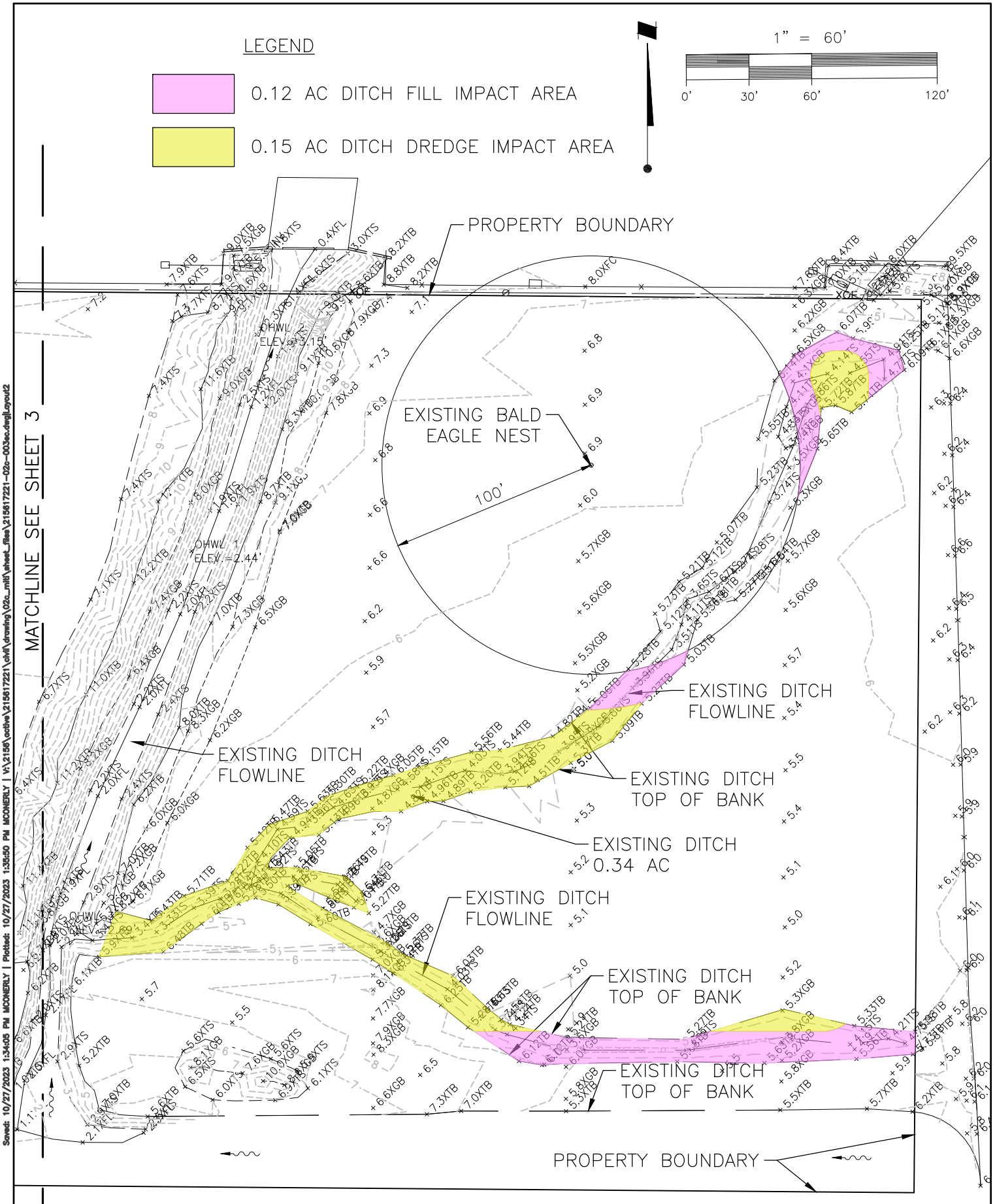
	SCALE: 1" = 60'	Stantec STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	TITLE: EXISTING CONDITIONS	PROJECT NO.: 215617221	
	LEAD TECH.		PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO.: 215617221-02c-003ec	
	SEC-TWP-RGE: 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO.: 3 OF 11
△REV NO. DATE					



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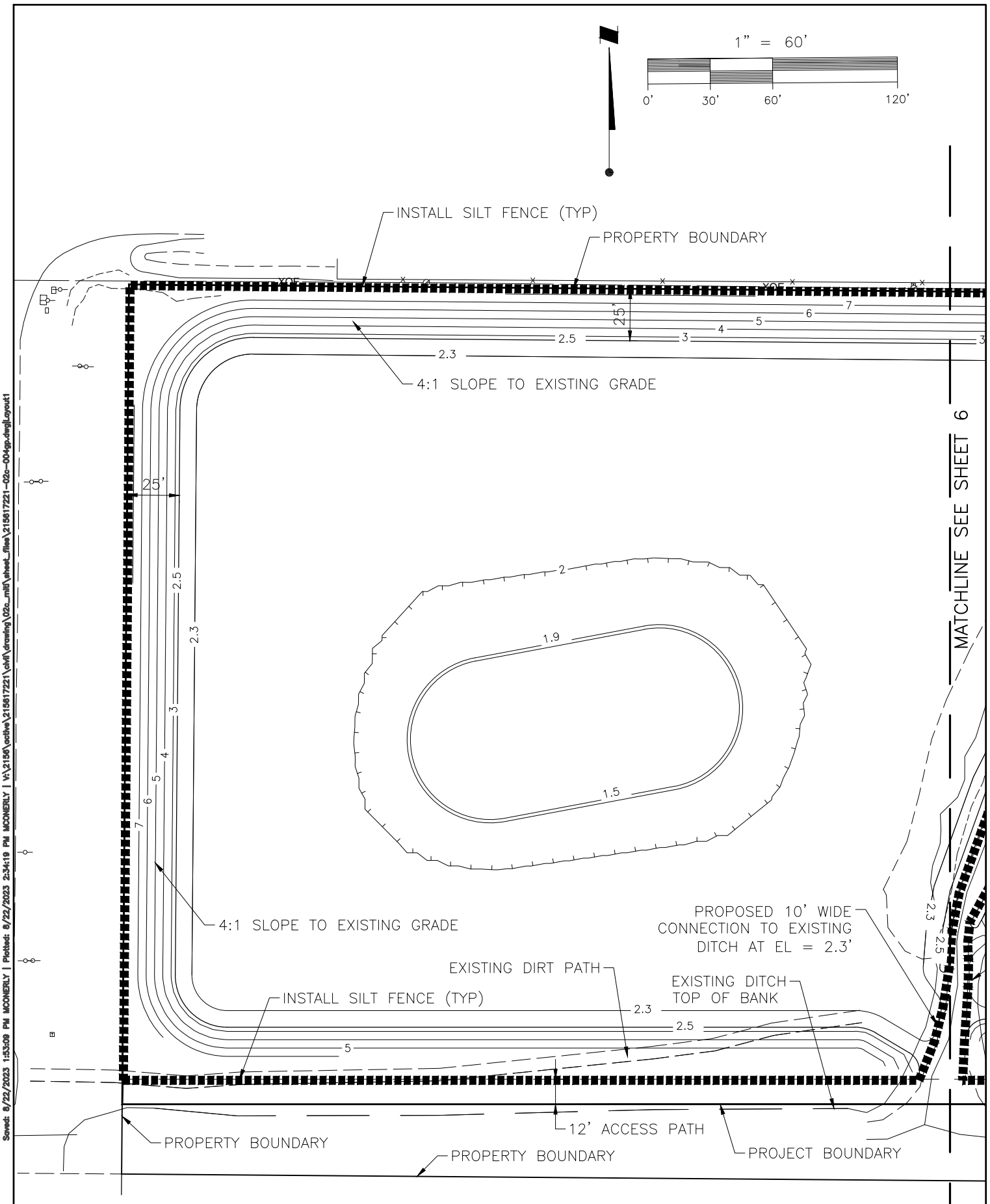
	SCALE: 1" = 60'	Stantec	TITLE: EXISTING CONDITIONS	PROJECT NO. 215617221	
	LEAD TECH.	STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	PROJ: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-003ec	
A 7/31/23	SEC-TWP-RGE 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 4 OF 11
△REV NO. DATE					



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	SCALE: 1" = 60'	Stantec STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	TITLE: GRADING PLAN	PROJECT NO.: 215617221	
	LEAD TECH.		PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO.: 215617221-02c-004gp	
	SEC-TWP-RGE 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO.: 5 OF 11
△REV NO. DATE					

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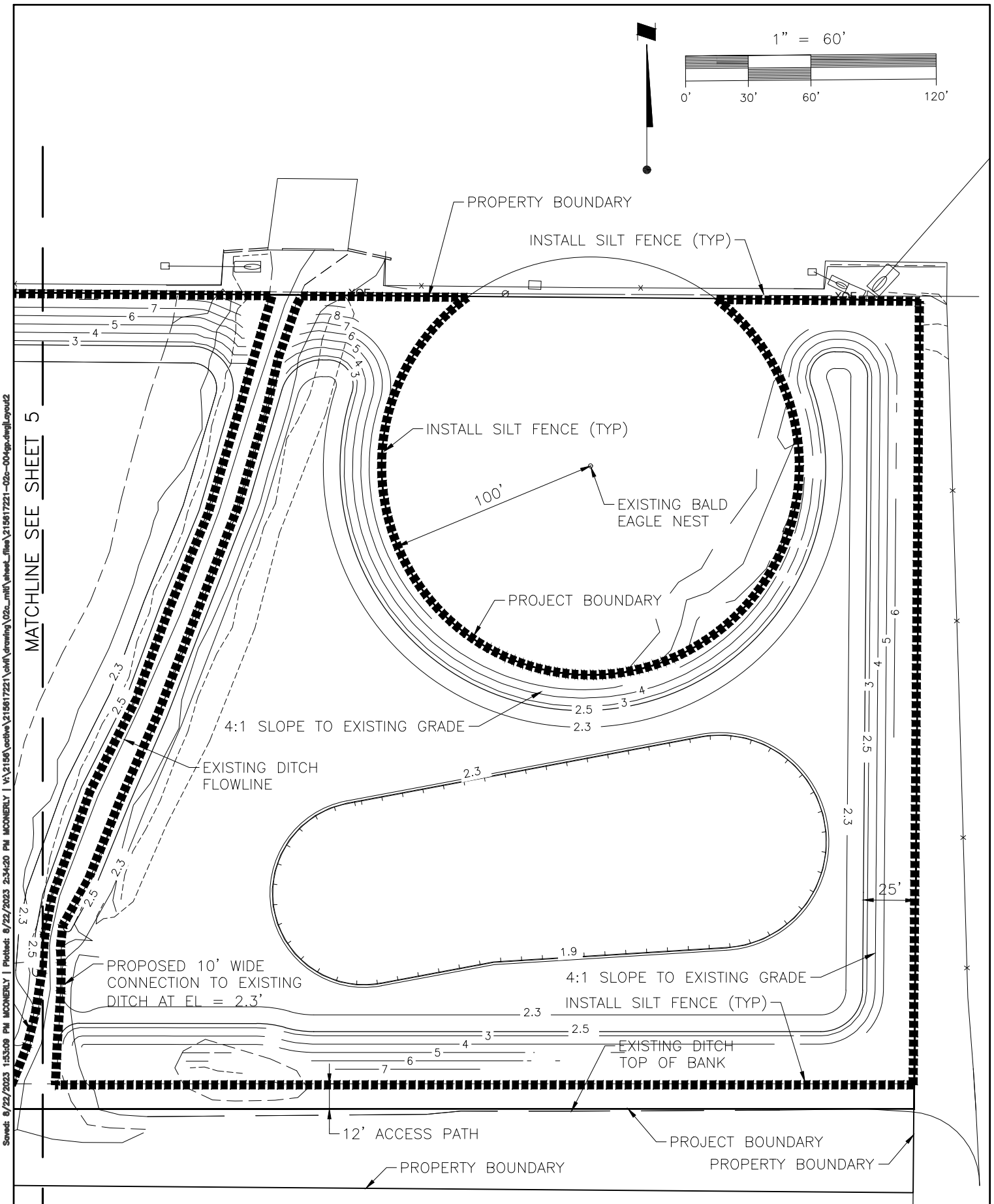

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REV NO.	DATE	SCALE	LEAD TECH.	SEC-TWP-RGE
		1" = 60'		
B	8/22/23			
A	7/31/23			30-33-19

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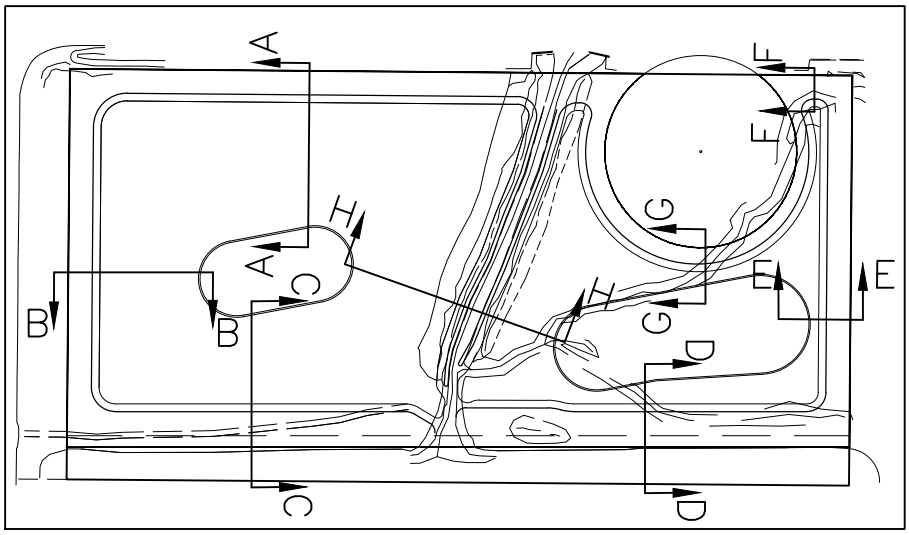
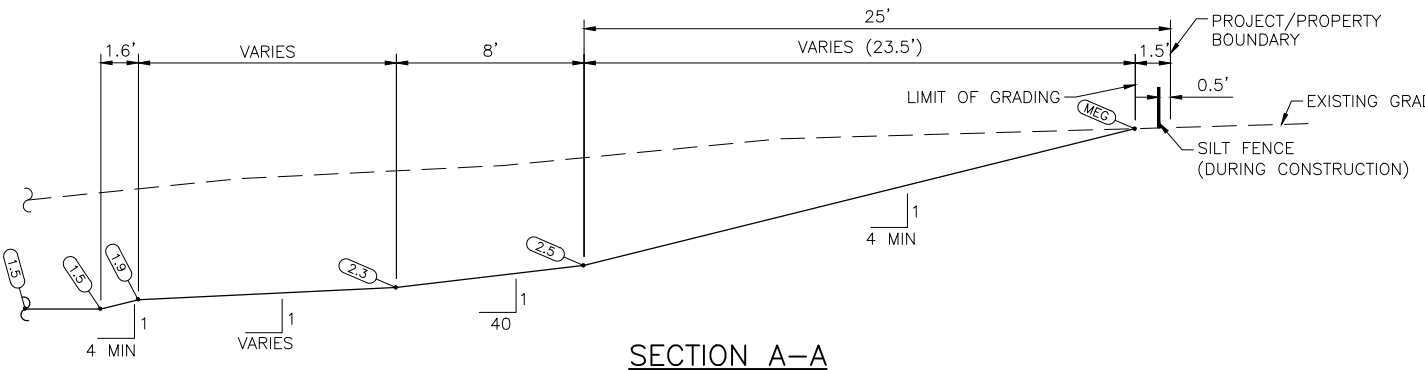
TITLE	PROJECT NO.
GRADING PLAN	215617221
PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO.: 215617221-02c-004gp
CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023
	SHEET NO.: 6 OF 11



NOTES
1. ANY DISTURBED AREA NOT SHOWN TO BE PLANTED ON PLANTING PLAN SHALL BE SODDED.



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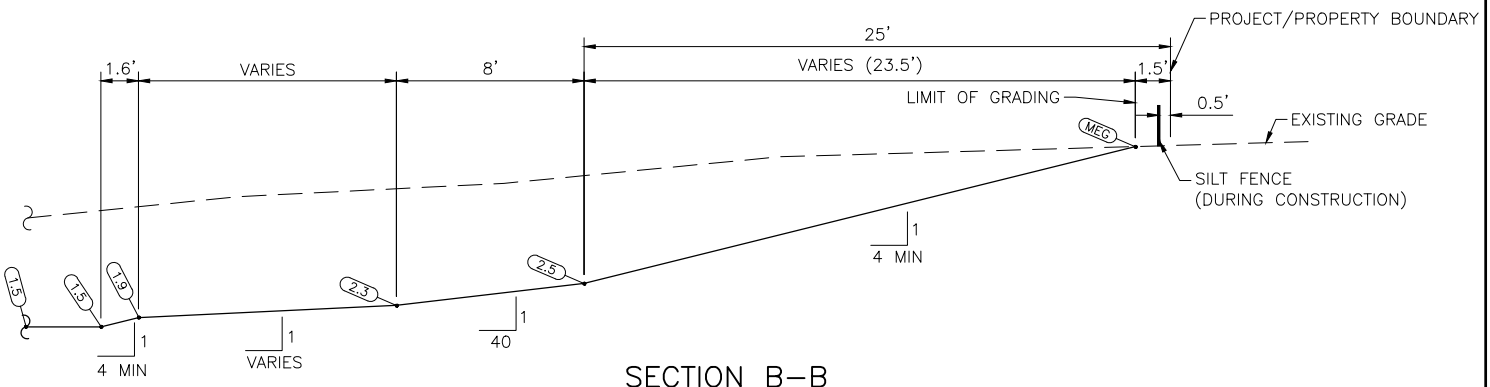

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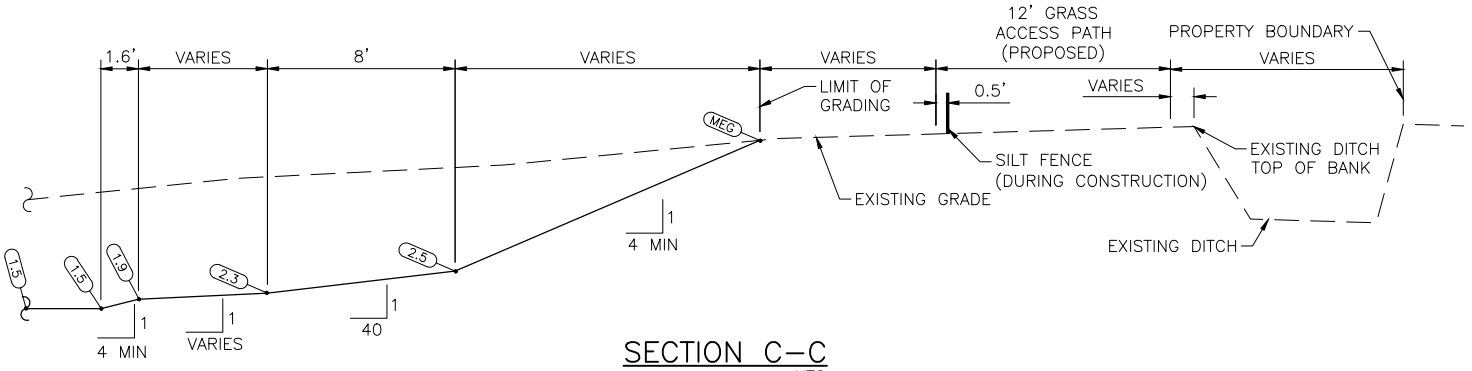

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	SCALE:	Stantec STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	TITLE: TYPICAL SECTIONS	PROJECT NO.: 215617221	
	LEAD TECH.		PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO.: 215617221-02c-005sc	
	SEC-TWP-RGE: 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO.: 7 OF 11
	△REV NO. DATE				

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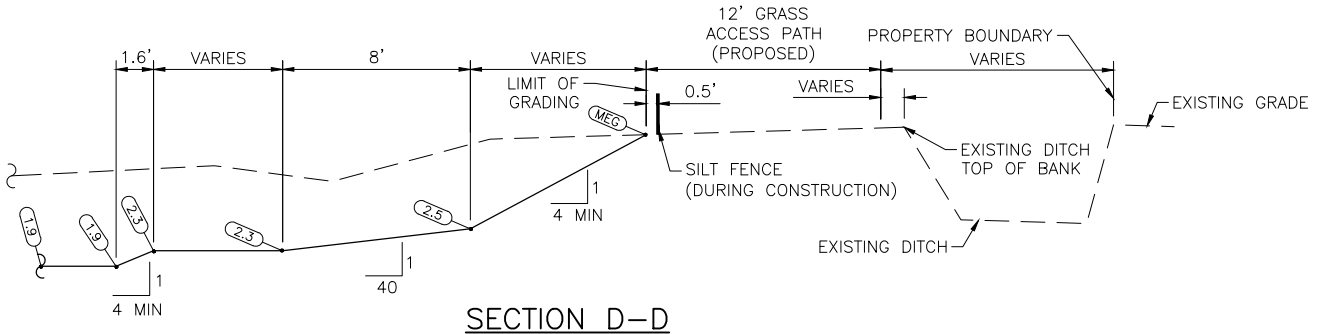

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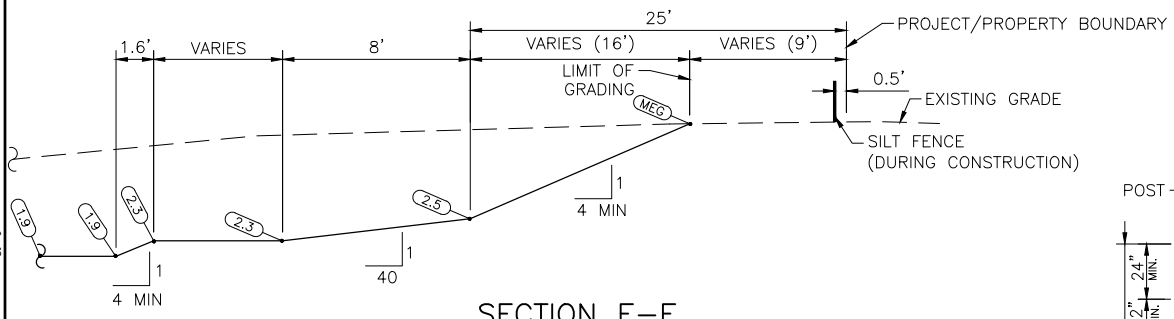

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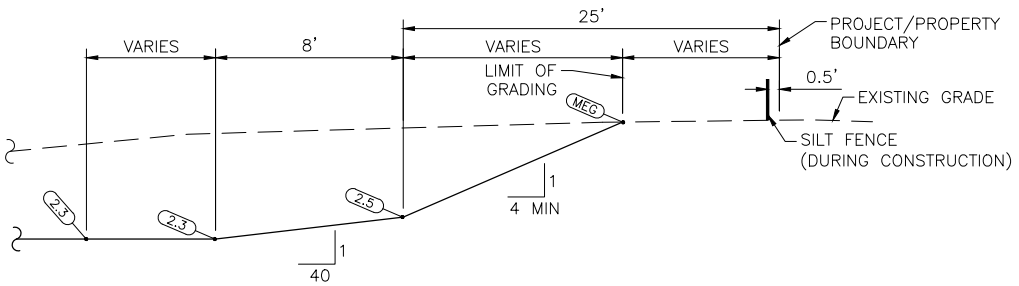

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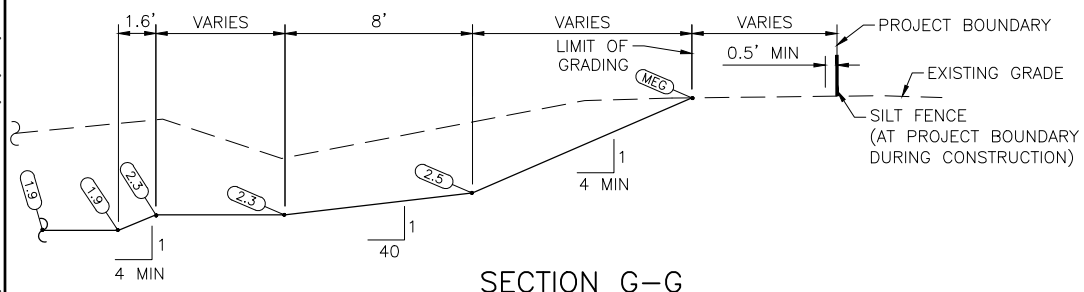

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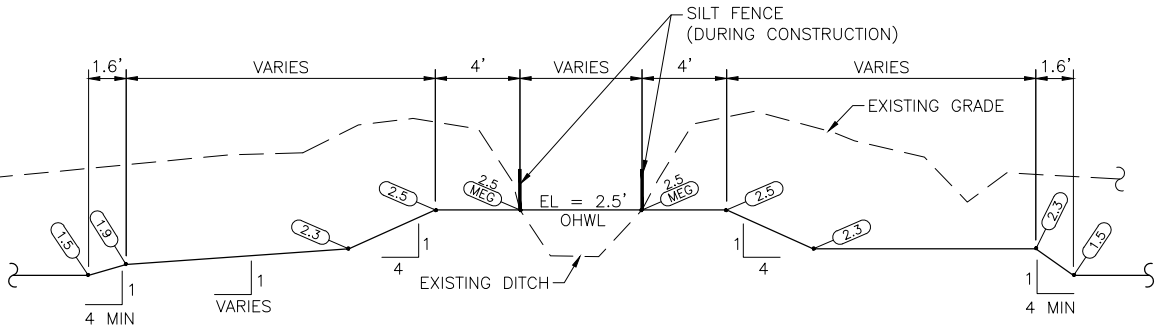

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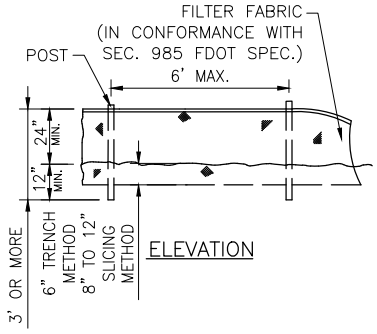

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	LEAD TECH.		PROJ: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-005sc	
A 7/31/23	SEC-TWP-RGE		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 8 OF 11
△REV NO. DATE	30-33-19				

LEGEND

ZONE A

ZONE B

ZONE C

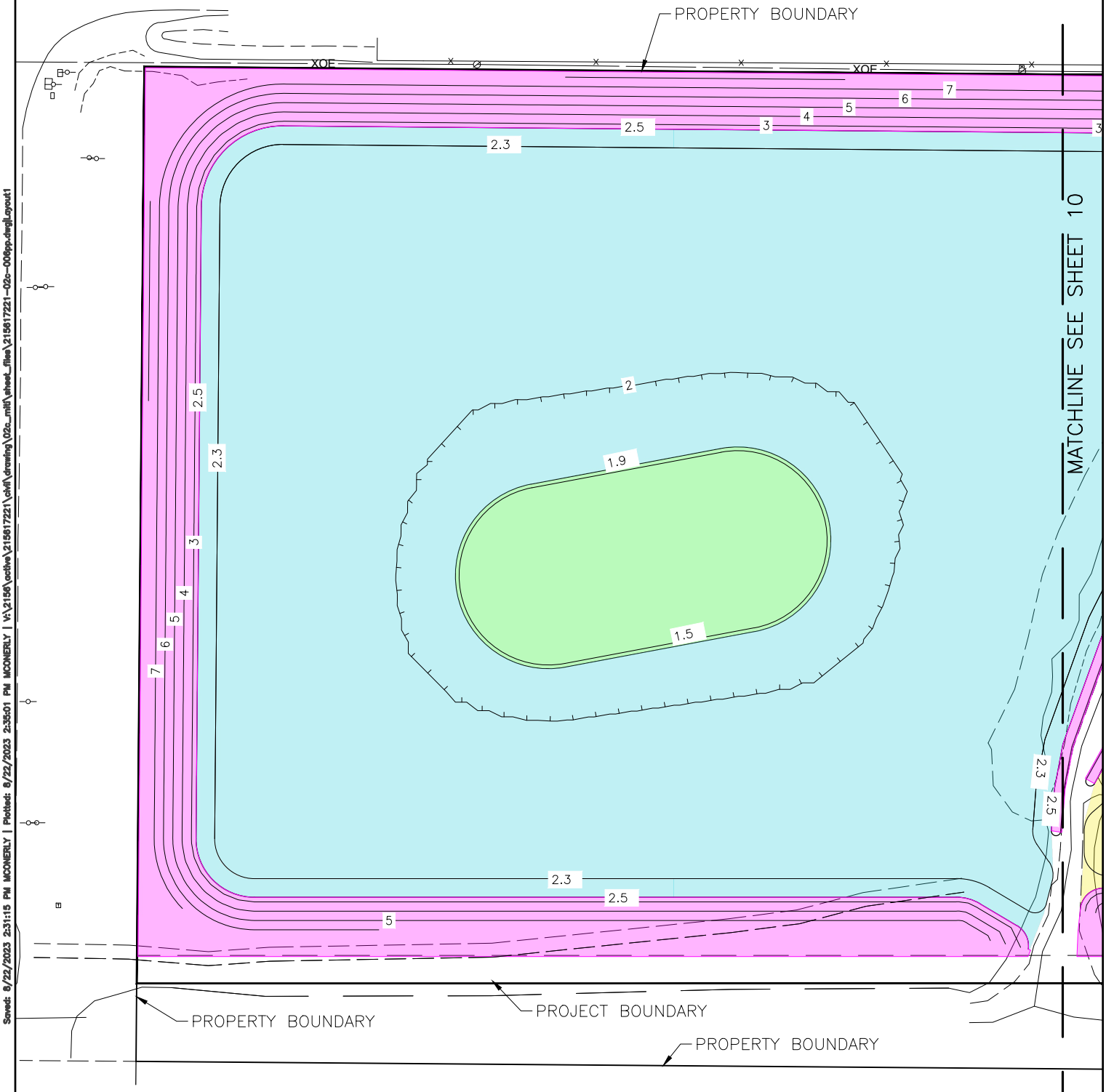
ZONE D

SEE SHEET 11 FOR PLANTING TABLE

NOTE: ALL DISTURBED AREAS NOT PLANTED SHALL BE SODDED TO PREVENT EROSION

1" = 60'

0' 30' 60' 120'



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	LEAD TECH.	STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-006pp	
	SEC-TWP-RGE 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 9 OF 11
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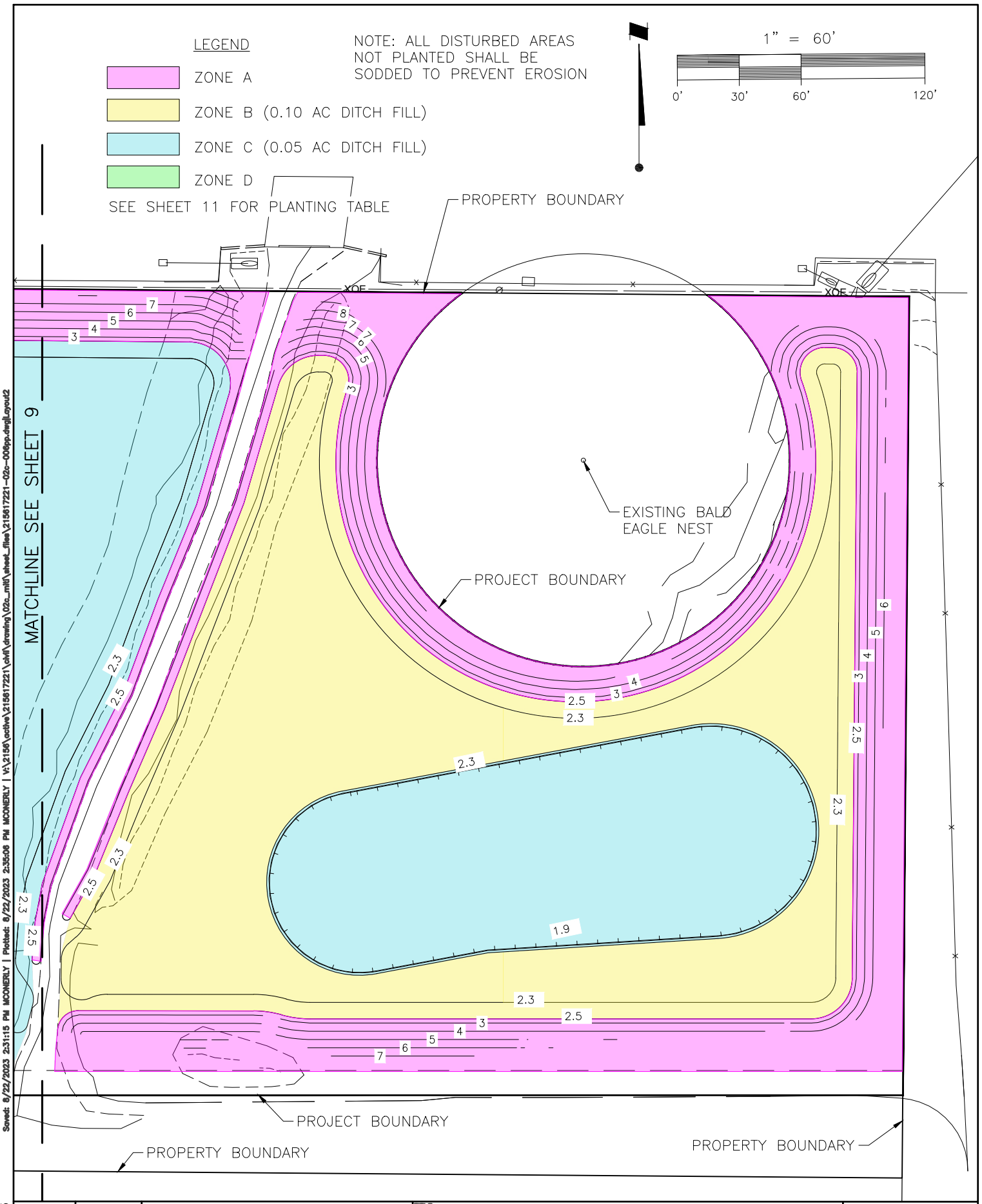

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	LEAD TECH.	STANTEC CONSULTING SERVICES INC. 6920 Professional Parkway Sarasota, FL 34240 Tel. (941)-907-6900 www.stantec.com	PROJ.: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO: 215617221-02c-006pp	
	SEC-TWP-RGE 30-33-19	Disclaimer & Copyright	CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO: 10 OF 11
△REV NO. DATE					

Zone A (1.47 acres) - Upland Buffer				
Scientific Name	**Common Name**	**Size**	**Spacing**	**Quantity**
Quercus laurifolia	Laurel Oak	7 G	20' OC	80
Pinus palustris	Longleaf Pine	7 G	20' OC	80
Morella cerifera	Wax Myrtle	1 G	10' OC	640
Spartina bakeri	Sand Cordgrass	1 G	3' OC	3,158
Tiypsacum dactyloides	Fakahatchee Grass	1 G	3' OC	3,158
Zone B (1.14 acres) - Forested Wetland				
Scientific Name	**Common Name**	**Size**	**Spacing**	**Quantity**
Acer rubrum	Red Maple	3 G	20' OC	53
Fraxinus caroliniana	Pop Ash	3 G	20' OC	53
Taxodium distichum	Bald Cypress	3 G	20' OC	53
Cephalanthus occidentalis	Butonbush	1 G	30' OC	71
Canna flaccida	Yellow canna	4" BRE	3' OC	2,278
Persicaria punctata	Smartweed	4" BRE	3' OC	2,278
Spartina bakeri	Sand Cordgrass	1 G	3' OC	2,278
Zone C (3.40 acres) - High Herbaceous Wetland				
Scientific Name	**Common Name**	**Size**	**Spacing**	**Quantity**
Eleocharis interstincta	Jointed Spikerush	4" BRE	3' OC	2,477
Panicum hemitomon	Maidencane	4" BRE	3' OC	2,477
Persicaria punctata	Smartweed	4" BRE	3' OC	2,477
Pontederia cordata	Pickerelweed	4" BRE	3' OC	2,477
Sagittaria lancifolia	Arrowhead	4" BRE	3' OC	2,477
Spartina bakeri	Sand Cordgrass	1 G	3' OC	2,477
Zone D (0.27 acres) - Low Herbaceous Wetland				
Scientific Name	**Common Name**	**Size**	**Spacing**	**Quantity**
Schoenoplectus californicus	Giant Bulrush	4" BRE	3' OC	327
Thalia geniculata	Fireflag	4" BRE	3' OC	327
Sagittaria lancifolia	Arrowhead	4" BRE	3' OC	327
Pontederia cordata	Pickerelweed	4" BRE	3' OC	327
G = Gallon; OC = On Center, BRE = Bare Root Equivalent, LN = Liners				

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	LEAD TECH.		PROJ: MWR 2 & 3 OFFSITE MITIGATION	INDEX NO.: 215617221-02c-006pp	
B 8/22/23	SEC-TWP-RGE: 30-33-19		CLIENT: NP LAND PARTNERS, LLC	DATE: MAY 2023	SHEET NO.: 11 OF 11
△REV NO. DATE					