

PLANS PREPARED FOR

MATTAMY AT SOUTHERN GROVE

CONTRACT PLANS BECKER ROAD WEST PHASE 2 CITY OF PORT ST. LUCIE

COMPONENTS OF CONTRACT PLANS SET
* ROADWAY AND UTILITY CONSTRUCTION PLANS

INDEX OF PLANS

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Florida Department of Transportation, FY2022-23 Standard plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated Irs are available at the following website:
<http://www.fdot.gov/design/Standardplans.shtm>

APPLICABLE IRs: 1R700-010-1

Standard Plans for Bridge Construction are included in the Structures Plans Component.

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

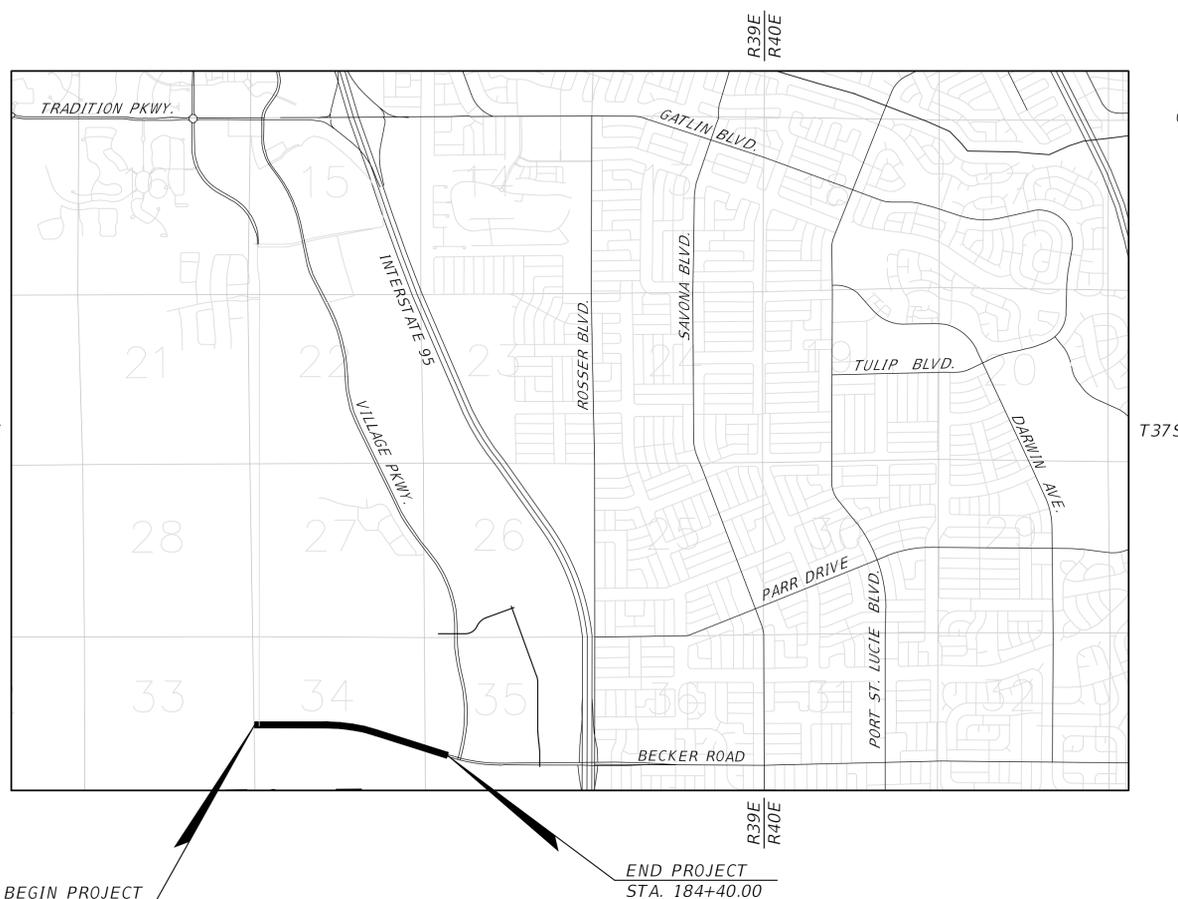
Environmental Statement:

This site was included in the overall Southern Grove DRI and environmental items were addressed as part of that development review process. The project site is currently vacant. According to the environmental summary assessment from October 2020, there are no environmentally sensitive lands or regulated wetlands on site. No wildlife, or evidence of wildlife, including that from the list of state and federally protected species, rare, threatened, endangered, or species of special concern was observed on the property. No portions of the property appear to be environmentally sensitive.

Description	Found (Yes/No)	Agency Contact Information	Management Plan (Yes/No)	Relocation Plan (Yes/No)
Wetlands	Yes		*Yes	*Yes
Rare Habitat	No			
Threatened Species	Yes		No	No
Endangered Species	No			
Species of Special Concern	No			
Invasive /Exotic Vegetation	Yes		N/A	N/A

*See existing permits: SFWMD 56-01544-P, 56-0279-P, and 56-02531-P / USACE SAJ-

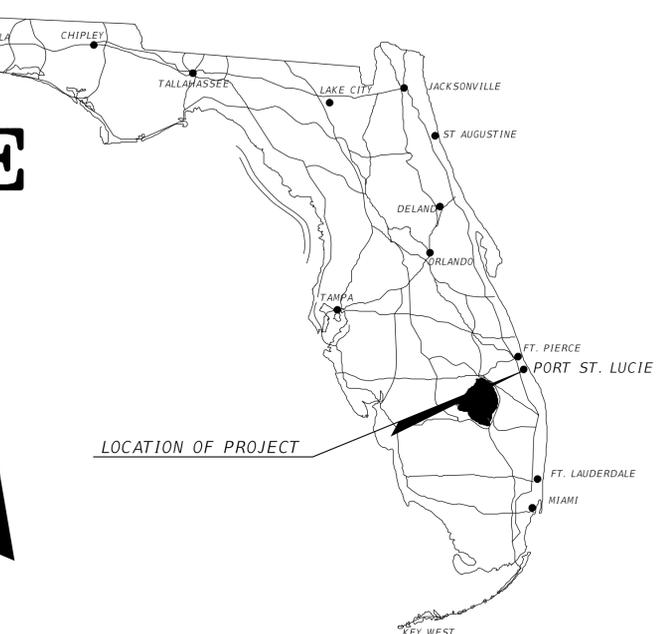
REVISIONS



BEGIN PROJECT STA. 122+91.83
END PROJECT STA. 184+40.00

LENGTH OF PROJECT		
	LIN. FT.	MILES
UTILITY	3,488.15 LF	0.661
ROADWAY	6,148.17 LF	1.164
BRIDGES	0 LF	0.000
EXCEPTIONS		
GROSS LENGTH OF PROJ.	6,148.17 LF	1.164

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION
8/29/23	KU	R1-REVISED MEDIAN EDGE DRAIN



CONSTRUCTION SHOP DRAWINGS TO BE SUBMITTED TO:

STEFAN K. MATTHES, PE
CULPEPPER & TERPENING, INC.
2980 SOUTH 25TH STREET
FORT PIERCE, FLORIDA 34981

PLANS PREPARED BY:



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

100% SUBMITTAL PLANS
OCTOBER 14, 2022

ROADWAY PLANS
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E.
P.E. NO. : 38723

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

C&T JOB NO.: 21-063

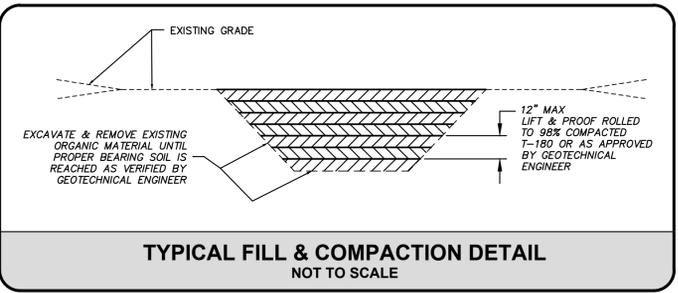
FISCAL YEAR	SHEET NO.
22	1

GENERAL NOTES

- BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
- ALL DRAINAGE INFRASTRUCTURE IS TO REMAIN UNLESS OTHERWISE NOTED.
- ALL GRADES SHOWN ARE FINISHED GRADES, UNLESS OTHERWISE NOTED.
- STATIONING AND OFFSETS REFER TO THE BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE CITY SURVEYOR WITHOUT DELAY, BY TELEPHONE (772) 871-5178.
- NO CONSTRUCTION SHALL COMMENCE UNTIL ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN SECURED AND THE CONTRACTOR IS ISSUED A "NOTICE TO PROCEED".
- DURING CONSTRUCTION, SHOULD ANY DRAINAGE STRUCTURES (INCLUDING PIPES) BE FOUND THAT ARE NOT SHOWN ON THE PLANS, NOTIFY THE ENGINEER IMMEDIATELY.
- IN REFERENCE TO EXISTING UTILITIES AND UTILITY ADJUSTMENTS:
 - THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN ON THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNER(S) TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS AS REQUIRED.
 - FOR EXISTING UTILITY SYMBOLS, SEE FDOT STANDARD INDEX 002.
 - WATER AND SANITARY SEWER UTILITY WORK SHALL BE IN CONFORMANCE WITH ALL CODES, STANDARDS, AND ORDINANCES CURRENTLY ADOPTED BY THE STATE OF FLORIDA D.E.P. AND PORT ST. LUCIE UTILITY SYSTEMS DEPARTMENT (PSLUSD).
- CONTRACTOR SHALL USE EXTREME CAUTION AND COMPLY WITH ALL APPLICABLE OSHA REGULATIONS WHEN WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITY LINES.
- THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE STATE ONE CALL OF FLORIDA (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW IN TWO BUSINESS DAYS (OR 10 DAYS IF ON THE JOB SITE)

COMPANY	CONTACT	TEL. NO.
AT&T	IVAN ARILL	(772) 460-4441
COMCAST CABLE	RICK JOHNSON	(561) 402-4513
FLORIDA POWER & LIGHT, CO.	DIANA VILLEGAS	(772) 337-7011
PSLUSD	LANEY SOUTHERLY, P.E.	(772) 807-4452
CITY OF PSL TRAFFIC OPS	PAUL JOHNSON	(772) 871-5182
- (NOTE: IF THERE IS A TRAFFIC MONITORING SITE ON THE PROJECT OR WITHIN ONE MILE OF THE CONSTRUCTION, THE TRANSPORTATION STATISTICS OFFICE IN TALLAHASSEE SHALL BE ADDED TO THE LIST OF UTILITY OWNERS.)
- WHEN UTILITY POLES ARE IN AREAS OF EXCAVATIONS, CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION OF FIVE (5) FEET BETWEEN THE POLE AND ANY EXCAVATION.
- ALL SYNTHETIC BALES AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND WHEN APPROVED BY THE MPDES INSPECTOR.
- IF DEWATERING PERMIT IS REQUIRED FOR THIS PROJECT, THE CONTRACTOR WILL BE REQUIRED TO OBTAIN A DEWATERING PERMIT OR WATER USE PERMIT AND ALLOW TIME FOR THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AND/OR FDEP TO REVIEW AND APPROVE THE PERMIT PRIOR TO THE CONSTRUCTION START DATE. IF DEWATERING PUMPS ARE REQUIRED TO RUN OVERNIGHT THE CONTRACTOR IS REQUIRED TO OBTAIN A NOISE PERMIT PER CITY CODE SECTION 94.07.
- WORK HOURS ARE FROM 7:00 AM TO DUSK, MONDAY-FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY THE CITY OF PORT ST. LUCIE UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE CITY. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE CITY AND PROVIDE AN APPROVED MOT PLAN BEFORE ANY LANE CLOSURES OCCUR.
- THE MAXIMUM CROSS SLOPES ON ALL SIDEWALKS IS 2%. ALL TRANSITIONS BETWEEN PROPOSED SIDEWALKS AND EXISTING SIDEWALKS SHALL BE SMOOTH AND LEVEL. DURING CONSTRUCTION ALL EXISTING PEDESTRIAN AND VEHICULAR PATHS MUST REMAIN USABLE AND ACCESSIBLE, OR ALTERNATE PATHS MUST BE PROVIDED.
- THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION.
- EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLANS OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
- THE SIDEWALK MUST BE FREE OF OVERHEAD OBSTRUCTIONS PER SECTION 4.4.2 OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG). CONTRACTOR SHALL ASSURE THAT NO OBSTRUCTION (UTILITY POLE, EQUIPMENT, SIGN, STRUCTURE, TREE, GRATE, ETC.) RESTRICTS ACCESS ALONG SIDEWALK TO A PATH LESS THAN 48".
- THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE PROJECT ENGINEER.
- EXISTING LANDSCAPE IMPROVEMENT THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED PER THE DIRECTION OF THE ENGINEER OF RECORD.
- LANE CLOSURES ALONG BECKER ROAD OR VILLAGE PARKWAY SHALL BE COORDINATED WITH THE CITY OF PORT ST. LUCIE.

- IN REFERENCE TO THE PROPOSED DRAINAGE STRUCTURES & PIPE:
 - CONCRETE PIPE CULVERT (R.C.P.) SHALL BE CLASS II, WALL B UNLESS OTHERWISE NOTED.
 - HIGH-PERFORMANCE POLYPROPYLENE PIPE (HPPP) (12" THROUGH 60") SHALL MEET ASTM F2881 OR AASHTO M330 AND HAVE A MANNING'S N VALUE OF 0.012.
 - ALL STORM STRUCTURE TOPS SHALL BE ADJUSTED AT TIME OF FINAL PAVEMENT OF CURB CONSTRUCTION. FINAL ADJUSTMENT OF ALL TOPS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - THE LENGTHS OF PIPE SHOWN HEREON HAVE BEEN DETERMINED BY CALCULATING THE DISTANCE BETWEEN THE "CENTERLINE" OF THE INLETS AND/OR MANHOLES.
 - OFFSETS FOR CURB INLETS ARE MEASURED TO THE EDGE OF PAVEMENT. OFFSETS FOR MANHOLES ARE MEASURED TO THE CENTER OF THE RIM.
- EXCAVATED SOILS MAY BE USED FOR EMBANKMENT CONSTRUCTION PROVIDED THAT THE MATERIAL IS CLEAN FILL, FREE OF ORGANIC MATERIALS, ROOTS OR OTHER DELETERIOUS MATERIALS, AND CONFORMS WITH FDOT SPECIFICATIONS AND FDOT STANDARD INDEX 505 AND IS APPROVED BY THE CITY CONSTRUCTION ENGINEER.
- ANY BORROW MATERIAL REQUIRED FOR THE PROJECT SHALL BE FURNISHED BY THE CONTRACTOR FROM AREAS PROVIDED BY HIM, AND THE COST OF FURNISHING SUCH MATERIAL SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR EARTHWORK AND GRADING.
- ALL MUCK AND PLASTIC MATERIAL WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT INDEX 102-001 AND 120-002.
- ALL VEGETATION, DEBRIS, PAVEMENT, CONCRETE OR OTHER UNSUITABLE MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.
- CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL PLAN DIMENSIONS AND SITE CONDITIONS, AND IS TO NOTIFY THE THE PROJECT ENGINEER OF ANY DISCREPANCIES BETWEEN SITE CONDITION AND INFORMATION SHOWN ON PLANS PRIOR TO COMMENCEMENT OF WORK.
- ANY KNOWN OR SUSPECT HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECT HAZARDOUS MATERIAL FROM FURTHER ACCESS. THE PROJECT ENGINEER IS TO NOTIFY THE PROPER REGULATORY AUTHORITY OF THE DISCOVERY. THE PROPER REGULATORY AUTHORITY WILL ADVISE/DIRECT THE PROJECT ENGINEER IN THE INVESTIGATION, IDENTIFICATION AND/OR REMOVAL/REMEDIATION OF THE MATERIAL IN QUESTION AS NEEDED. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF SUSPECTED CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER. THE REGULATORY AUTHORITY WILL ADVISE THE PROJECT ENGINEER IN THESE MATTERS.
- THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING THE CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, WRITTEN PERMISSION FROM THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE A COPY OF THE REQUEST TO THE PROJECT ENGINEER. THE CONTRACTOR SHALL PROVIDE THE PROJECT ENGINEER WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE, AND PROVIDE A DESCRIPTION OF THE SPECIFIC MANNER IN WHICH THE MATERIAL WILL BE USED. THE PROJECT ENGINEER SHALL COORDINATE WITH THE PROJECT ENGINEER PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. BECAUSE STATE LAW DOES NOT TREAT PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AS HAZARDOUS MATERIALS, SUCH PRODUCTS DO NOT REQUIRE AN MSDS SUBMITTAL. ALL BULK PETROLEUM PRODUCTS STORED ON SITE SHALL REQUIRE PROPER STORAGE WHICH INCLUDES SECONDARY CONTAINMENT
- ALL AREAS DESIGNATED FOR PAVEMENT REMOVAL SHALL BE SAW-CUT AT THE LIMITS OF REMOVAL ADJACENT TO EXISTING PAVEMENT WHICH IS TO REMAIN.
- ALL WORK ASSOCIATED WITH THIS PROJECT IS TO BE PERFORMED WITHIN THE RIGHT-OF-WAY LIMITS OR TEMPORARY CONSTRUCTION EASEMENTS AS DEPICTED ON THE PLAN SHEETS.
- ALL ADA WARNING SURFACES ARE TO BE CAST IN PLACE AND BRICK RED IN COLOR.
- ALL CONCRETE SIDEWALK JOINTS SHALL BE TOOLED WITHOUT EXPANSION JOINTS.
- THE GEOTECHNICAL REPORT IS PROVIDED AS AN EXHIBIT TO THESE PLANS. THE CONTRACTOR SHALL ADHERE TO THE RECOMMENDATIONS PROVIDED IN THE REPORT. COMPACTION OF FILL SHALL BE PROVIDED PER THE DETAIL BELOW.



FDOT ITEM No.	DESCRIPTION	UNIT	QUANTITY
101-1A	MOBILIZATION/GENERAL CONDITIONS/BONDS/PERMIT FEES	LS	1
101-1B	PRE-CONSTRUCTION VIDEO	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	17,560
104-11	FLOATING TURBIDITY BARRIER	LF	200
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1
104-18	INLET PROTECTION SYSTEM	EA	23
110-1	CLEARING & GRUBBING	AC	20.1
120-1	REGULAR EXCAVATION	CY	4,244
120-3	LATERAL DITCH EXCAVATION	CY	6,750
120-6	EMBANKMENT	CY	62,644
160-4	TYPE B STABILIZATION (12" THICK)	SY	35,772
285-710	OPTIONAL BASE, BASE GROUP 09 (LBR 100)(10" THICK)	SY	32,543
327-70-1	MILLING EXISTING ASPH PAVT, 1" AVG DEPTH	SY	1,118
334-1-13	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-12.5) (3" THICK)	TON	5,280.4
337-7-82A	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-9.5) (1.5" THICK)	TON	2,640.3
337-7-82B	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-9.5) (1" THICK OVERLAY)	TON	44.0
400-1-2	CONCRETE CLASS I, ENDWALLS	CY	14.93
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	9,950
522-1	CONCRETE SIDEWALK/PADS, 4" THICK	SY	11,793
522-2	CONCRETE DRIVEWAY, 6" THICK	SY	100
527-2	DETECTABLE WARNINGS	SF	96
530-3-5	RIP-RAP, RUBBLE, DITCH LINING	CY	120
570-1-1	PERFORMANCE TURF, SEED & MULCH	SY	24,440
570-1-2A	PERFORMANCE TURF, ST. AUGUSTINE SOD	SY	41,754
570-1-2B	PERFORMANCE TURF, BAHIA SOD	SY	16,738
425-1-361	INLETS, CURB, TYPE P-6, < 10'	EA	13
425-1-369	INLETS, CURB, TYPE P-6, MODIFIED (REPLACE TOP)	EA	4
425-1-461	INLETS, CURB, TYPE J-6, < 10'	EA	1
425-2-61	MANHOLE P-8, <10'	EA	13
425-2-91A	MANHOLE J-8, <10'	EA	2
425-2-91B	MANHOLE J-8, <10' (5' x 7')	EA	1
430-174-115	PIPE CULVERT, HPPP, ROUND, 15"	LF	280
430-174-118	PIPE CULVERT, HPPP, ROUND, 18"	LF	641
430-174-124	PIPE CULVERT, HPPP, ROUND, 24"	LF	1,249
430-174-130	PIPE CULVERT, HPPP, ROUND, 30"	LF	496
430-174-136	PIPE CULVERT, HPPP, ROUND, 36"	LF	941
430-174-142	PIPE CULVERT, HPPP, ROUND, 42"	LF	60
430-174-148	PIPE CULVERT, HPPP, ROUND, 48"	LF	38
446-1-1	EDGE DRAIN DRAINCRETE, (I-DRAIN SWD-18)	LF	19,580
102-71-16	TEMPORARY BARRIER, F&I, FREE STAND WATER FILLED	LF	380
700-1-11A	SINGLE POST SIGN, F&I GM, < 12 SF (R-1 STOP)	EA	1
700-1-11B	SINGLE POST SIGN, F&I GM, < 12 SF (R-1 SPEED LIMIT)	EA	9
700-1-11C	SINGLE POST SIGN, F&I GM, < 12 SF (OMI-1 YELLOW 9 BUTTON)	EA	22
700-1-11D	SINGLE POST SIGN, F&I GM, < 12 SF (LEFT LANE ENDS)	EA	2
700-1-11E	SINGLE POST SIGN, F&I GM, < 12 SF (MERGE RIGHT)	EA	1
700-1-11E	SINGLE POST SIGN, F&I GM, < 12 SF (STOP AHEAD)	EA	2
700-1-11F	SINGLE POST SIGN, F&I GM, < 12 SF (U TURN ONLY)	EA	2
700-1-60	SINGLE POST SIGN, REMOVE	EA	13
706-3	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	EA	852
711-11-121	THERMOPLASTIC, STANDARD, WHITE, SOLID, 6"	LF	10,280
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	935
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	1,092
711-11-140A	THERMOPLASTIC, STANDARD, WHITE, SKIP, 6" (10' - 30')	LF	840
711-11-160A	THERMOPLASTIC, STANDARD, WHITE, MERGE MESSAGE	EA	2
711-11-160B	THERMOPLASTIC, STANDARD, WHITE, STOP MESSAGE	EA	1
711-11-170A	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	10
711-11-221	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	11,040
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF	670
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, DOT/GUIDE, 6"	LF	728
635-112	FIBER OPTIC CABLE (F&I) 96 STRAND	LF	3,450
715-2-115	2" CONDUIT (F&I) (UNDERGRD, PVC SCHEDULE 40)	LF	11,750
635-2-11	PULL & SPLICE BOX (F&I) 13" x 24" COVER	EA	8
1050-31206A	UTILITY PIPE,PVC, F&I, 6" WATER MAIN	LF	298
1050-31206B	UTILITY PIPE,PVC, F&I, 6" FORCE MAIN	LF	143
1050-31208	UTILITY PIPE,PVC, F&I, 8" WATER MAIN	LF	454
1050-31212A	UTILITY PIPE,PVC, F&I, 12" WATER MAIN	LF	3,540
1050-31212B	UTILITY PIPE,PVC, F&I, 12" FORCE MAIN	LF	3,450
1055-31112	UTILITY FITTINGS FOR PVC PIPE	TON	2
1055-31512	UTILITY FITTINGS FOR PVC PIPE, CAP, 12" (RESTRAINED)	EA	2
1080-24112A	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 6" WATER MAIN	EA	7
1080-24112B	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 6" FORCE MAIN	EA	1
1080-24112C	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 8" WATER MAIN	EA	6
1080-24112D	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 12" WATER MAIN	EA	9
1080-24112E	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, 12" FORCE MAIN	EA	3
1080-24150	UTILITY FIXTURE - VALVE ASSEMBLY, F&I, BLOW OFF	EA	3
1080-32112A	UTILITY FIXTURE - SAMPLE POINT	EA	8
1080-32112B	UTILITY FIXTURE - JUMPER	EA	1
1644-112-6	FIRE HYDRANT ASSEMBLY	EA	6

NOTES:
1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

COMPUTER FILE REF.	FIELD BK./PG.

CULPEPPER & TERPENING INC
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 PHONE 772-464-3537 • FAX 772-464-8497 • www.ct-eng.com
 STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

- REVISIONS -		
BY	DATE	

DESIGNED	BY	DATE

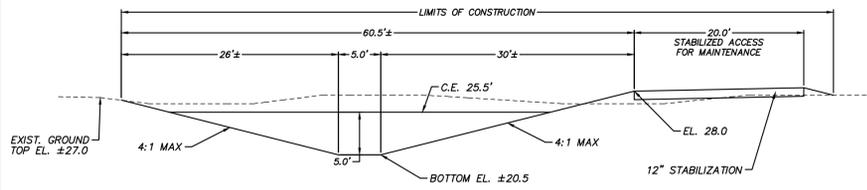
BECKER ROAD WEST PHASE 2

PAY ITEMS - NOTES

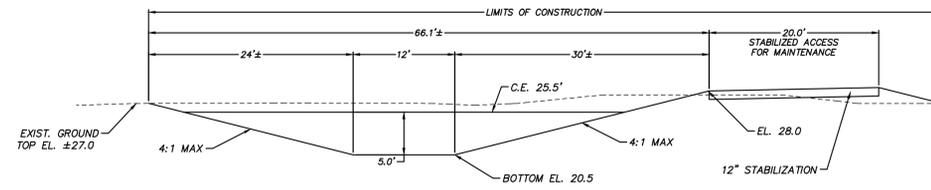
DATE: 10/14/2022
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-063
SHEET 2 of 23

PSLUSD PROJECT NO. 5346B
 CITY OF PSL PROJECT NO. P22-251
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723

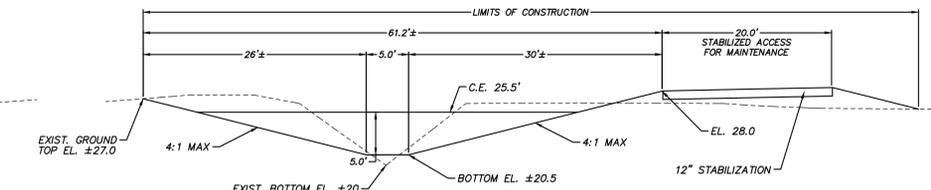




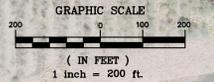
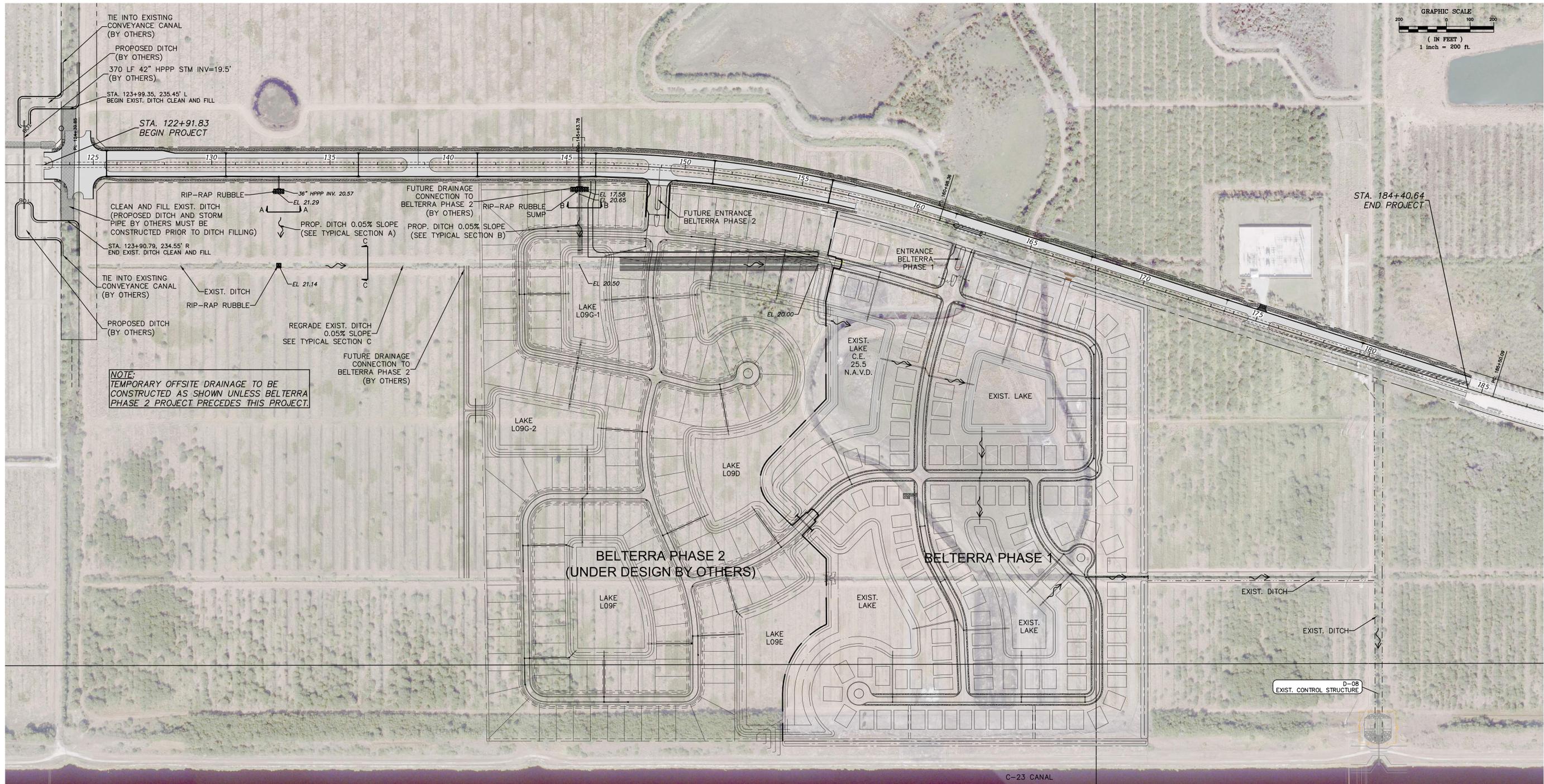
PROPOSED DITCH
TYPICAL SECTION A



PROPOSED DITCH
TYPICAL SECTION B



PROPOSED DITCH
TYPICAL SECTION C



NOTE:
TEMPORARY OFFSITE DRAINAGE TO BE
CONSTRUCTED AS SHOWN UNLESS BELTERRA
PHASE 2 PROJECT PRECEDES THIS PROJECT.

P:\Proj\2021\21-063 Becker Road West Phase 2 Design\Eng\21-063 Overall Drainage.dwg Plotted: 8/29/2023 4:27 PM By: KITHSIRI LUDUGAMA

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251
STEFAN K. MATTHEWS, P.E.
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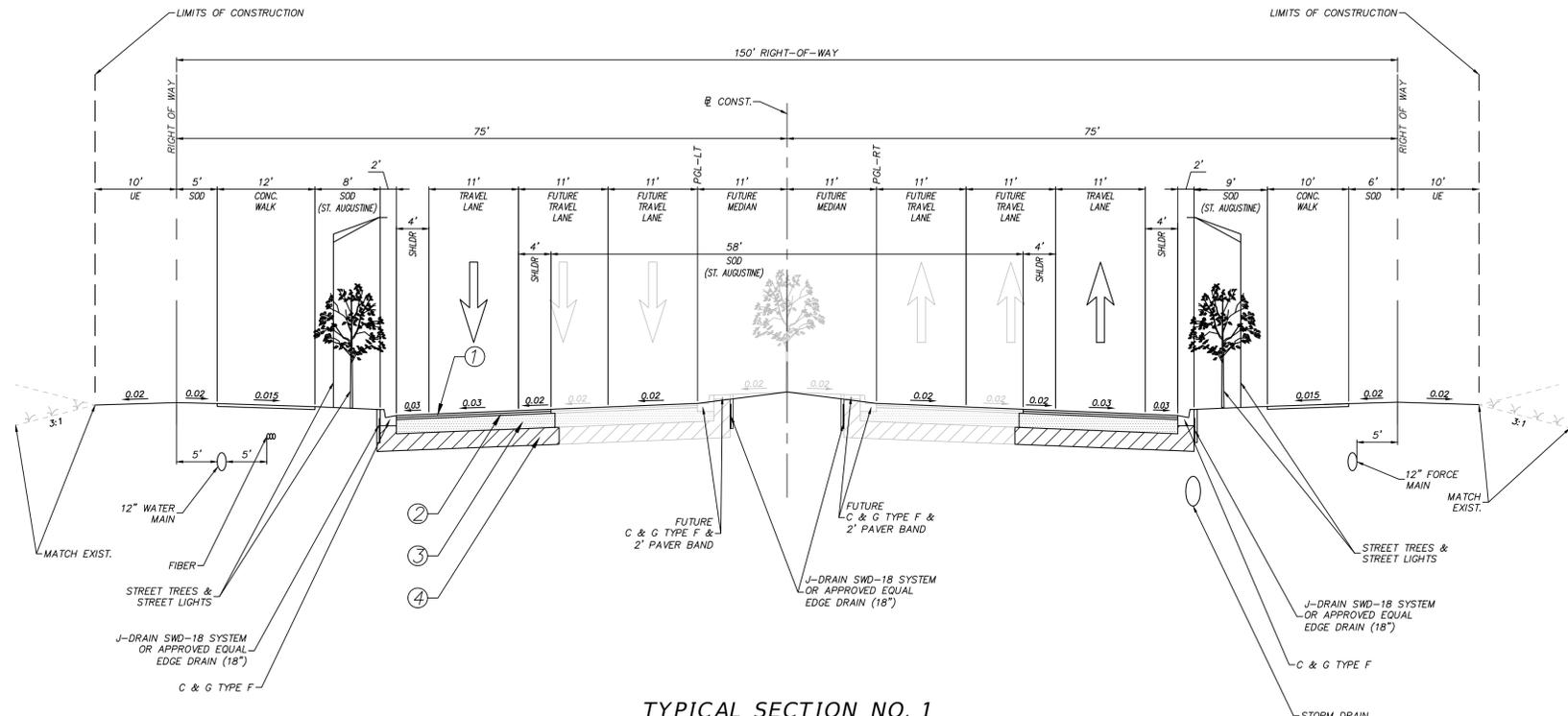
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- REVISIONS -		BY	DATE

DESIGNED	BY	DATE
CALCS.		
DRAWN	DRP	10/29/21
DETAILED		
CHECKED		
APPROVED		

BECKER ROAD WEST PHASE 2
TEMPORARY OFFSITE DRAINAGE MAP

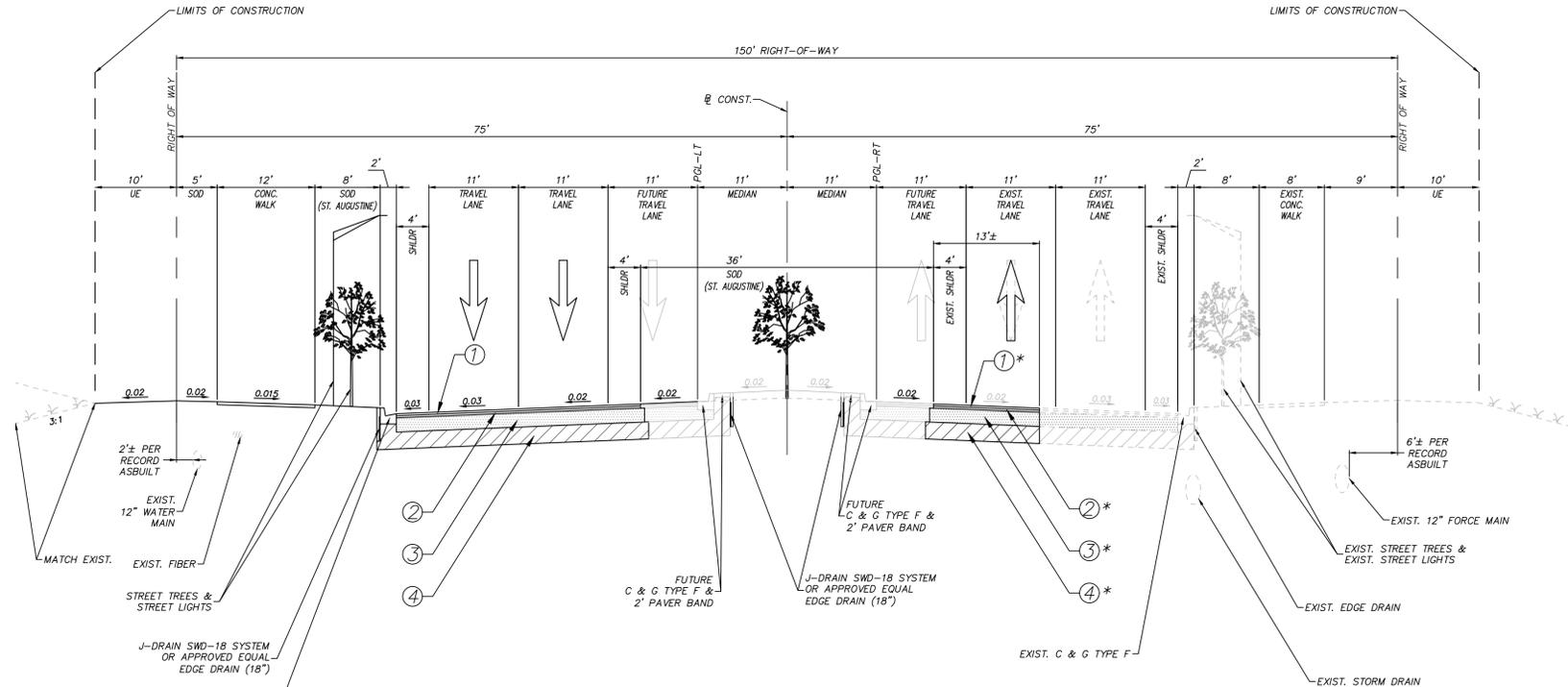
DATE: 10/14/2022
HORIZ. SCALE: 1"=200'
VERT. SCALE: N/A
JOB No. 21-063
SHEET 3 of 23



TYPICAL SECTION NO. 1
BECKER ROAD (WEST)
STA. 122+91.83 TO STA. 157+40.00
DESIGN SPEED = 45 MPH

- ASPHALT PAVEMENT (SN=4.74)**
- ① TYPE FC-9.5 FRICTION COURSE (TRAFFIC LEVEL C) (1.5") (SN=0.66)
 - ② TYPE SP-12.5 STRUCTURAL COURSE (3" THICK) (SN=1.32)
 - ③ OPTIONAL BASE GROUP 9 (SN=1.8)
 - ④ 12" TYPE 'B' STABILIZATION (SN=0.96)

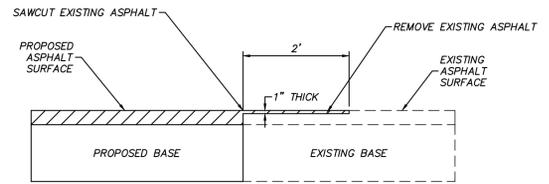
- NOTES:**
1. SEE PLAN AND/OR CROSS SECTION SHEETS FOR DIMENSIONS, ELEVATIONS AND SLOPES INDICATED AS "VARIES."
 2. ALL DISTURBED AREAS WITHIN THE RIGHT OF WAY SHALL BE SODDED USING COMMON BAHIA SOD EXCEPT WHEN MATCHING EXISTING OR INDICATED AS ST. AUGUSTINE SOD.
 3. MAXIMUM SIDEWALK SLOPE IS 2.0%.
 4. PROPOSED LANDSCAPE IMPROVEMENTS AND MULTIMODAL PATH SEE PLANS BY LUCIDO & ASSOCIATES.
 5. PLACE STREET TREES ON 40' CENTERS.
 6. STA. 178+45.69 TO STA. 184+40 ADDITIONAL INSIDE LANE PAVEMENT WIDENING IS REQUIRED FOR THE COMPLETION OF THE 4 LANE DIVIDED SECTION FOR THE EXISTING ROADWAY.



TYPICAL SECTION NO. 2
BECKER ROAD (WEST)
STA. 157+40.00 TO STA. 184+40.00
***STA. 178+45.69 TO 184+40.00**
DESIGN SPEED = 45 MPH

TRAFFIC DATA

CURRENT YEAR	= 2021 AADT = 1,000
ESTIMATED OPENING YEAR	= 2021 AADT = 1,000
ESTIMATED DESIGN YEAR	= 2042 AADT = 15,000
DESIGN SPEED	= 45 MPH



BUTT JOINT DETAIL
 N.T.S.

P:\Proj\2021\21-063 Becker Road West Phase 2 Design\Eng\21-063 Typ Sect.dwg Plotted: 8/29/2023 4:35 PM By: KITHSIRI UDIKAMA



NOTES:
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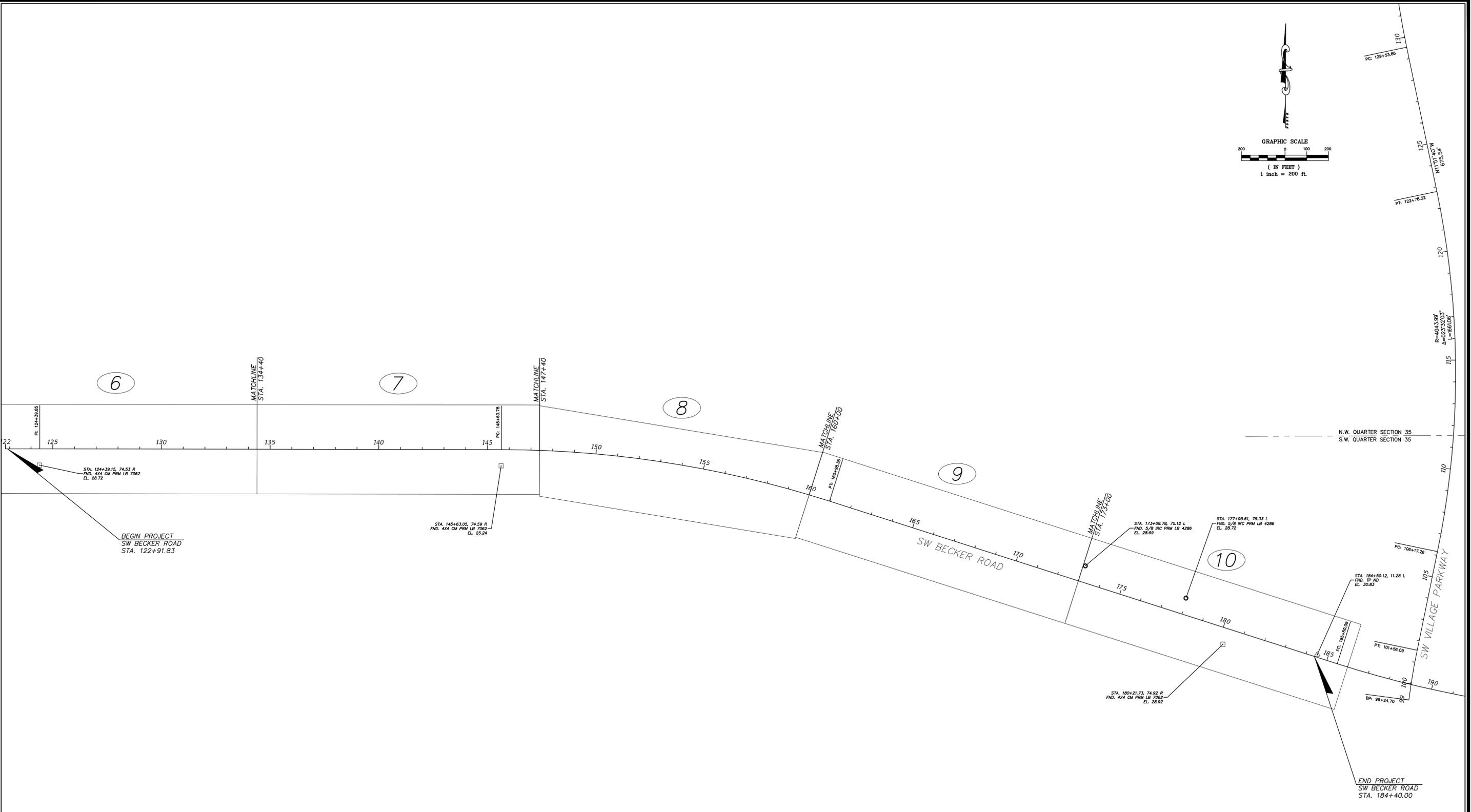
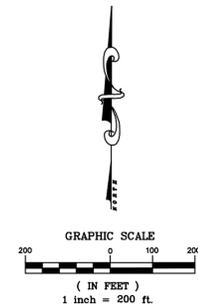
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DRAWN	DRP	10/29/21
DETAILED		
CHECKED		
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BECKER ROAD WEST PHASE 2
TYPICAL SECTIONS

DATE: 10/14/2022
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-063
SHEET 4 of 23

PSLUSD PROJECT NO. 5346B
 CITY OF PSL PROJECT NO. P22-251
 STEFAN K. MATTHES, P.E.
 FL. REG. NO. 38723



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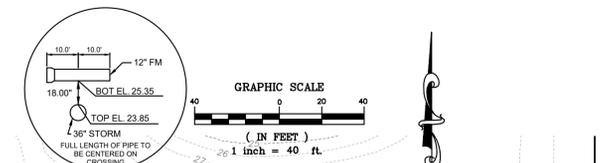
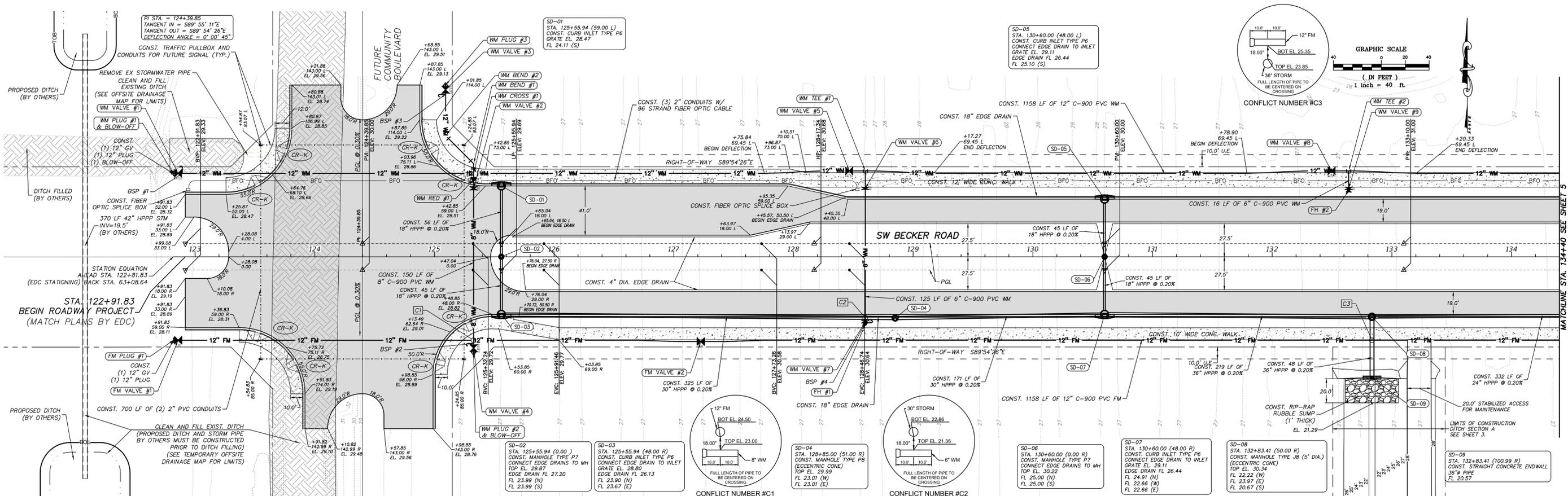
	BY	DATE
DESIGNED		
CALCS.		
DRAWN	DRP	10/29/21
DETAILED		
CHECKED		
APPROVED		

BECKER ROAD WEST PHASE 2

PROJECT LAYOUT

DATE: 10/14/2022
 HORIZ. SCALE: SCALE
 VERT. SCALE: SCALE
 JOB No. **21-063**
 SHEET **5 of 23**

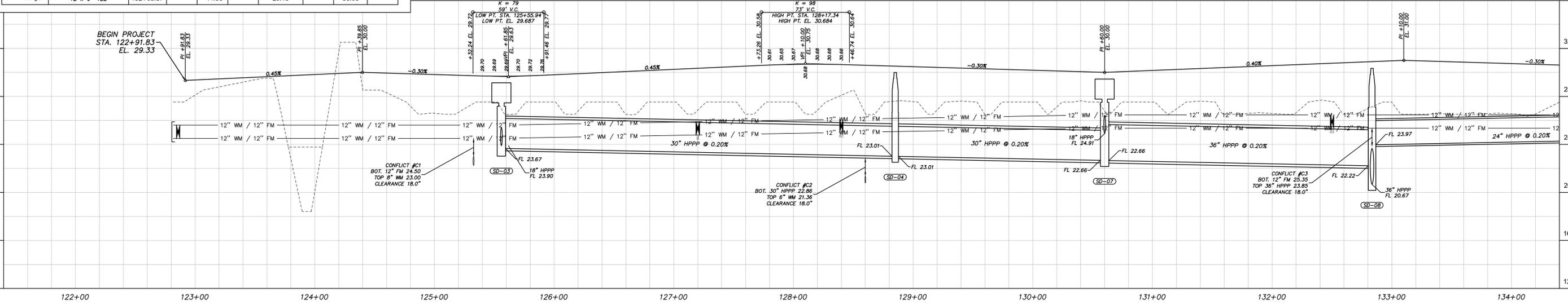
PSLUSD PROJECT NO. 5346B
 CITY OF PSL PROJECT NO. P22-251
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723



FITTING TABLE					
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
FM PLUG #1	12" PLUG	122+81.83	69.42	25.60	29.11
WM BEND #1	12" 45° BEND	125+32.71	-77.45	0.00	29.53
WM BEND #2	12" 45° BEND	125+09.30	-100.86	25.60	29.98
WM CROSS #1	12" CROSS	125+32.71	-69.45	25.60	29.47
WM PLUG #1	12" PLUG W/ BLOW-OFF	122+81.83	-69.48	25.60	28.97
WM PLUG #2	8" PLUG W/ BLOW-OFF	125+32.71	79.99	23.00	29.52
WM PLUG #3	12" PLUG W/ BLOW-OFF	125+09.30	-143.00	25.89	29.89
WM RED #1	12 x 8" REDUCER	125+32.71	-64.18	25.60	29.39
WM TEE #1	12 x 6" TEE	128+60.00	-71.50	25.96	30.42
WM TEE #2	12 x 6" TEE	132+63.87	-71.50	26.45	30.63

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
FH #1	6" HYDRANT	128+60.00	56.00	21.93	30.16
FH #2	6" HYDRANT	132+63.87	-55.00	26.45	30.36
FM VALVE #1	12" RSGV	122+85.81	69.42	25.60	29.11
FM VALVE #2	12" RSGV	127+22.58	70.50	25.89	30.16
WM VALVE #1	12" RSGV	122+85.81	-69.48	25.60	28.97
WM VALVE #2	8" RSGV	125+32.71	-57.00	25.60	29.31
WM VALVE #3	12" RSGV	125+09.30	-139.02	25.89	29.89
WM VALVE #4	8" RSGV	125+32.71	76.00	23.00	29.60
WM VALVE #5	12" RSGV	128+66.55	-71.50	25.94	30.46

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM VALVE #6	6" RSGV	128+60.00	-57.00	25.96	30.19
WM VALVE #7	6" RSGV	128+60.00	54.00	21.93	30.13
WM VALVE #8	12" RSGV	132+49.61	-71.50	26.45	30.57
WM VALVE #9	6" RSGV	132+63.87	-57.00	26.45	30.40



MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251
STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



NOTES:
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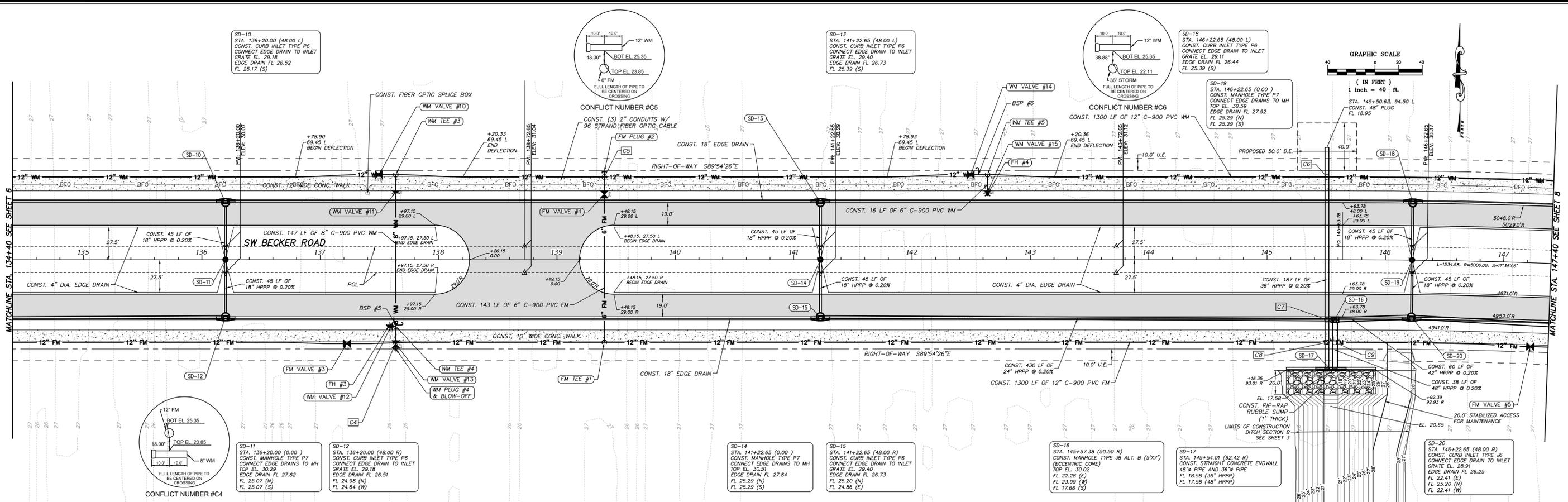
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BECKER ROAD WEST PHASE 2
PLAN AND PROFILE

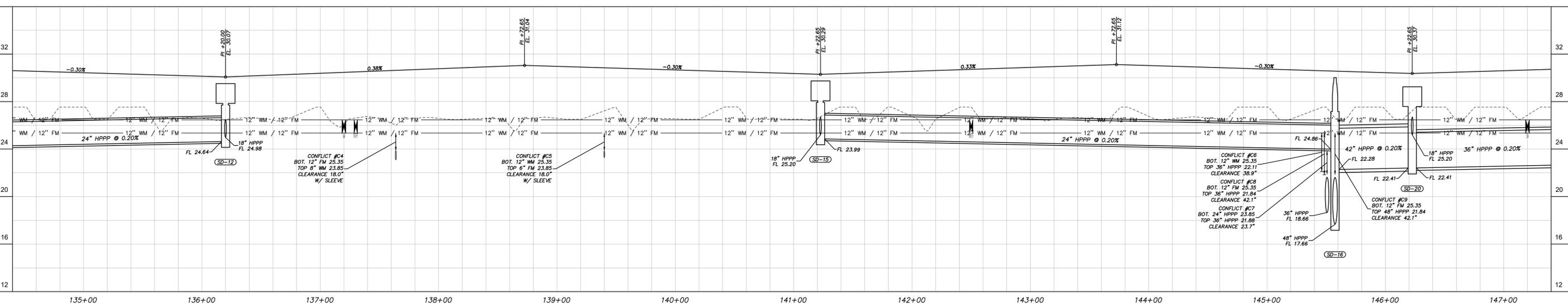
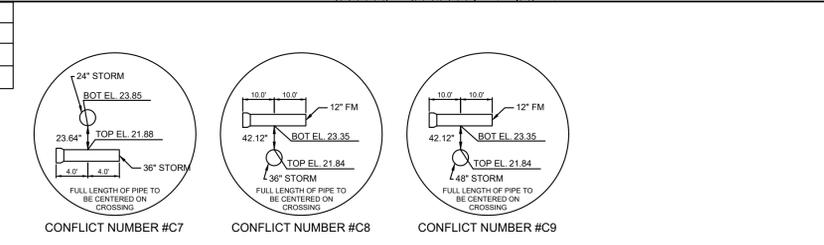
DATE: 10/14/2022
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
JOB No. 21-063
SHEET 6 of 23



FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
FM PLUG #2	6" PLUG	139+40.00	-74.00	23.85	30.70
FM TEE #1	12 x 6" TEE	139+40.00	69.45	26.45	30.62
WM PLUG #4	8" PLUG W/ BLOW-OFF	137+63.87	75.00	23.85	30.52
WM TEE #3	12 x 8" TEE	137+63.87	-71.50	26.45	30.44
WM TEE #4	8 x 6" TEE	137+63.87	56.00	23.09	30.19
WM TEE #5	12 x 6" TEE	142+63.87	-71.50	26.45	30.57

VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
FH #3	6" HYDRANT	137+57.87	56.00	23.09	30.16
FH #4	6" HYDRANT	142+63.87	-55.00	26.45	30.30
FM VALVE #3	12" RSGV	137+22.58	70.50	26.45	30.27
FM VALVE #4	6" RSGV	139+40.00	-55.00	23.85	30.38
FM VALVE #5	12" RSGV	147+24.82	70.50	26.45	30.48
WM VALVE #10	12" RSGV	137+49.61	-71.50	26.45	30.38
WM VALVE #11	8" RSGV	137+63.87	-57.00	26.45	30.21
WM VALVE #12	6" RSGV	137+59.87	56.00	23.09	30.17
WM VALVE #13	6" RSGV	137+63.87	71.01	23.85	30.44

VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM VALVE #14	12" RSGV	142+49.65	-71.50	26.45	30.53
WM VALVE #15	6" RSGV	142+63.87	-57.00	26.45	30.34



MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251



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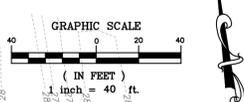
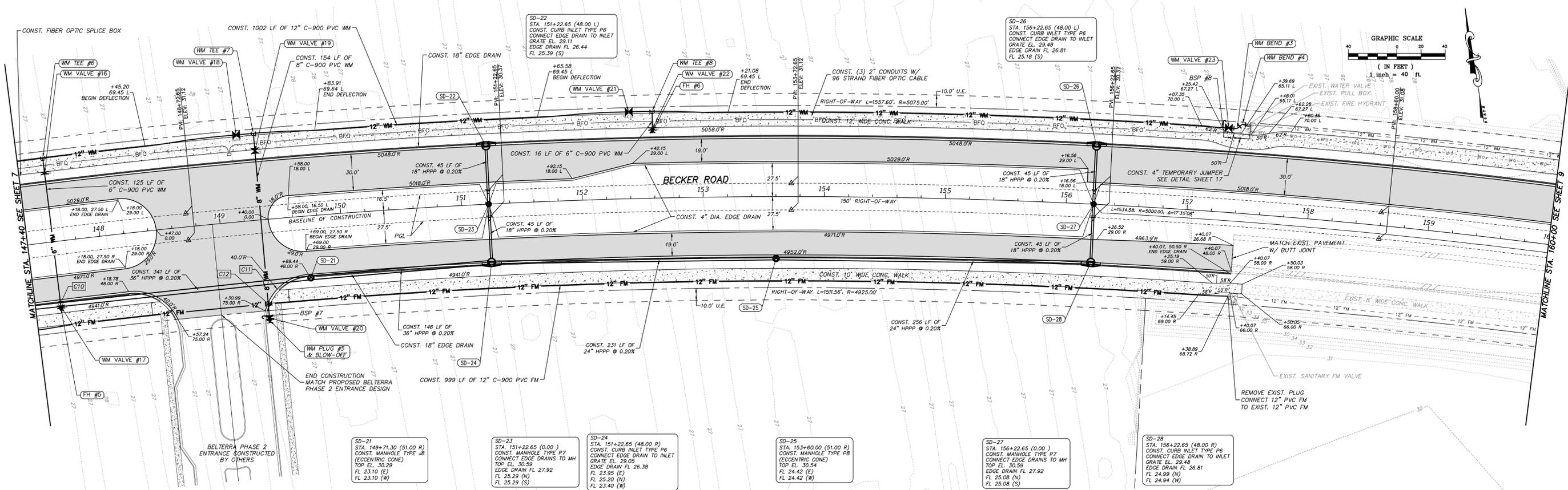
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BECKER ROAD WEST PHASE 2
PLAN AND PROFILE

DATE: 10/14/2022
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
JOB No. 21-063
SHEET 7 of 23

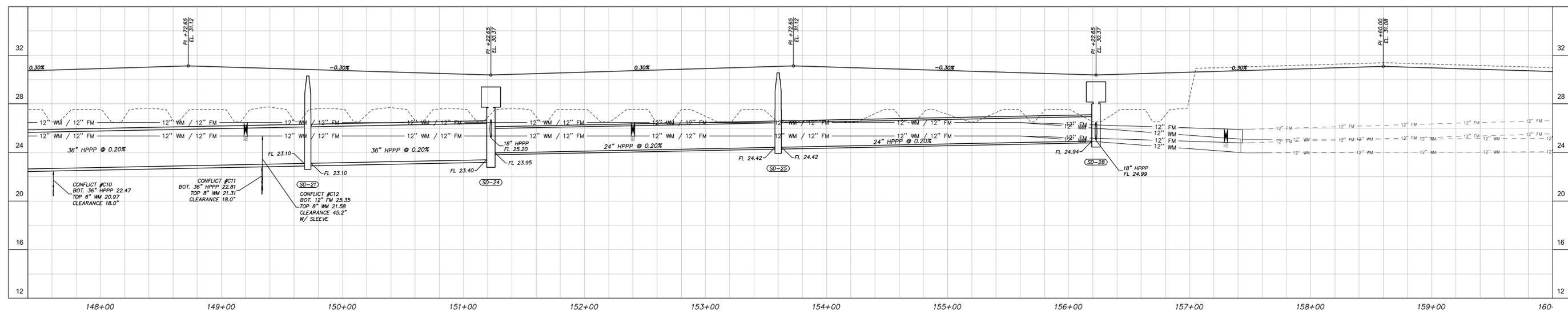
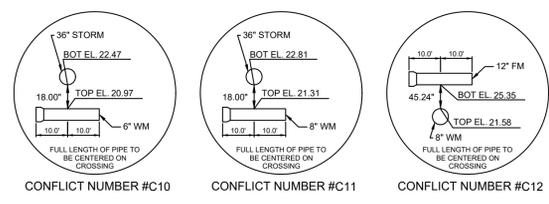
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FITTING TABLE					
FITTING ID	FITTING TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM BEND #3	12" 45' BEND	157+36.32	-69.45	25.13	30.49
WM BEND #4	12" 45' BEND	157+40.28	-73.28	25.10	30.57
WM PLUG #5	8" PLUG W/ BLOW-OFF	149+33.89	83.04	21.31	30.67
WM TEE #6	12 x 6" TEE	147+61.16	-69.45	21.59	30.56
WM TEE #7	12 x 8" TEE	149+33.89	-71.52	26.45	30.75
WM TEE #8	12 x 6" TEE	152+59.22	-71.52	26.45	30.59

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
FH #5	6" HYDRANT	147+61.16	56.00	20.97	30.35
FH #6	6" HYDRANT	152+59.22	-55.00	26.45	30.32
WM VALVE #16	6" RSGV	147+61.16	-57.00	26.45	30.37
WM VALVE #17	6" RSGV	147+61.16	54.00	20.97	30.31
WM VALVE #18	12" RSGV	149+19.83	-71.50	26.45	30.79
WM VALVE #19	8" RSGV	149+33.89	-57.00	26.45	30.52
WM VALVE #20	8" RSGV	149+33.89	81.03	21.31	30.71
WM VALVE #21	12" RSGV	152+40.25	-71.50	26.45	30.54
WM VALVE #22	6" RSGV	152+59.22	-57.00	26.45	30.36

VALVE TABLE					
VALVE ID	VALVE TYPE	STATION	OFFSET	TOP OF PIPE	FIN. GND.
WM VALVE #23	12" RSGV	157+29.48	-69.45	25.19	30.47



MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



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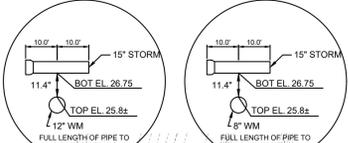
BECKER ROAD WEST PHASE 2

PLAN AND PROFILE

DATE: 10/14/2022
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VERT. SCALE: 1"=4'
JOB No. 21-063
SHEET 8 of 23

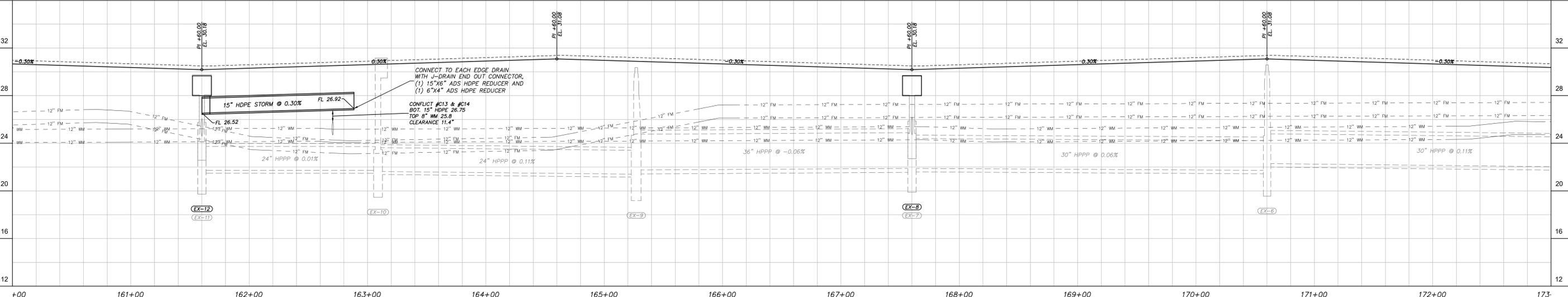
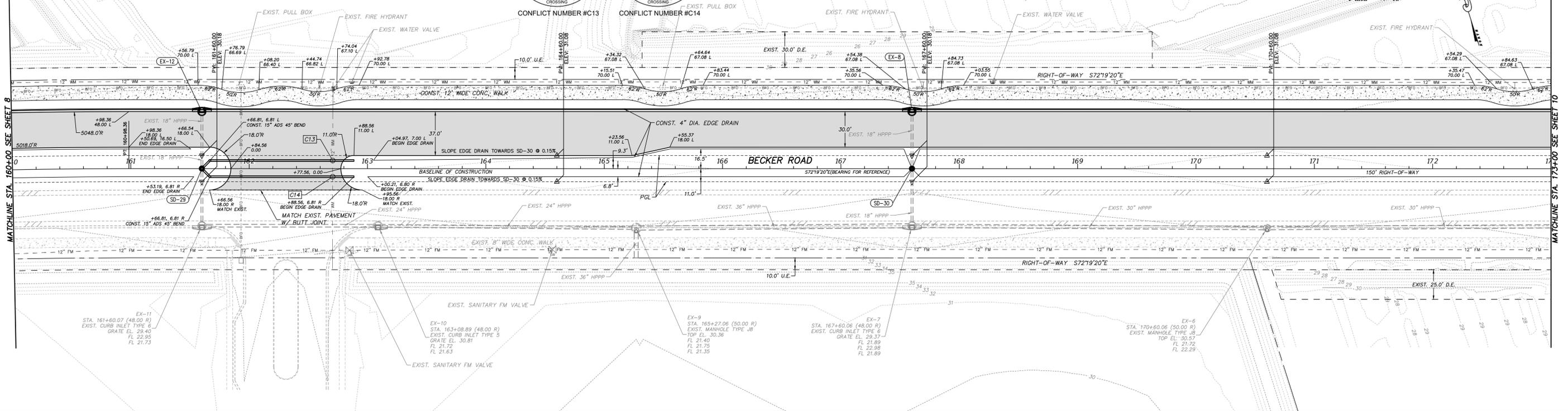
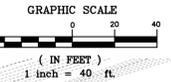
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STA. 161+60.07 (48.00 L)
REMOVE EXIST. DBI TOP
CONST. CURB INLET TYPE 6
CONNECT EDGE DRAINS TO INLET
GRATE EL. 29.33
EDGE DRAIN FL 26.66
FL 24.58 (S)

SD-29
STA. 161+60.07 (0.00 P)
CONST. MANHOLE TYPE P7
CONNECT TO EXIST. 18" HPPP CROSS DRAIN
TOP EL. 30.49
EDGE DRAIN FL 27.82
FL 23.76 (S)
FL 26.52 (SE)
FL 26.52 (NE)
FL 23.76 (N)



EX-8
STA. 167+60.06 (48.00 L)
REMOVE EXIST. DBI TOP
CONST. CURB INLET TYPE 6
CONNECT EDGE DRAINS TO INLET
GRATE EL. 29.33
EDGE DRAIN FL 26.66
FL 24.70 (S)

SD-30
STA. 167+60.06 (0.00 R)
CONST. MANHOLE TYPE P7
CONNECT TO EXIST. 18" HPPP CROSS DRAIN
CONNECT EDGE DRAINS TO MH
TOP EL. 30.49
EDGE DRAIN FL 27.82
FL 23.84 (N)
FL 23.84 (S)



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MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHES, P.E.
FL. REG. NO. 38723



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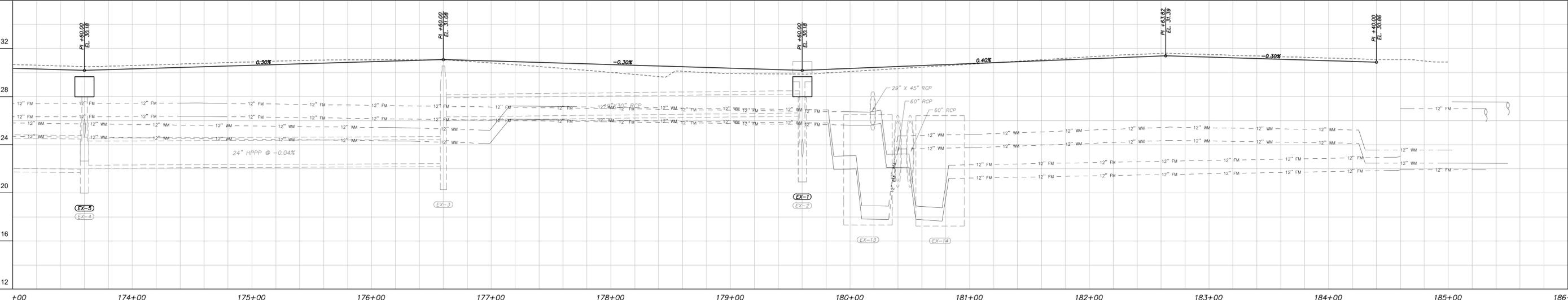
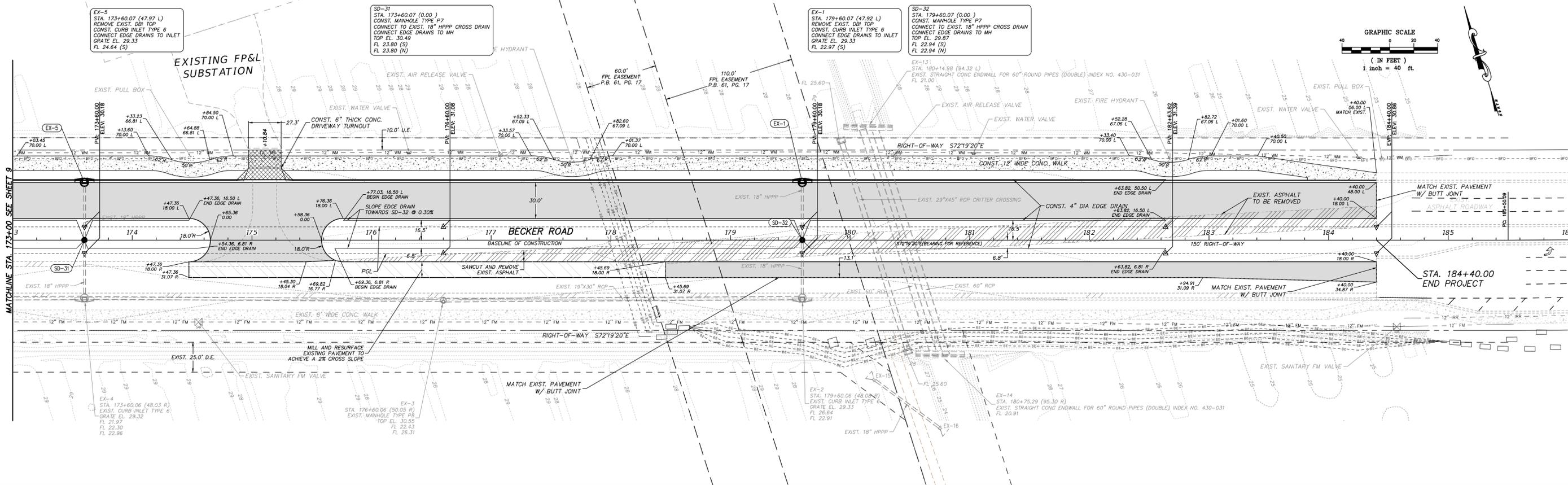
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CHECKED		
APPROVED		

BECKER ROAD WEST PHASE 2
PLAN AND PROFILE

DATE: 10/14/2022
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
JOB No. 21-063
SHEET 9 of 23



MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHEWS, P.E.
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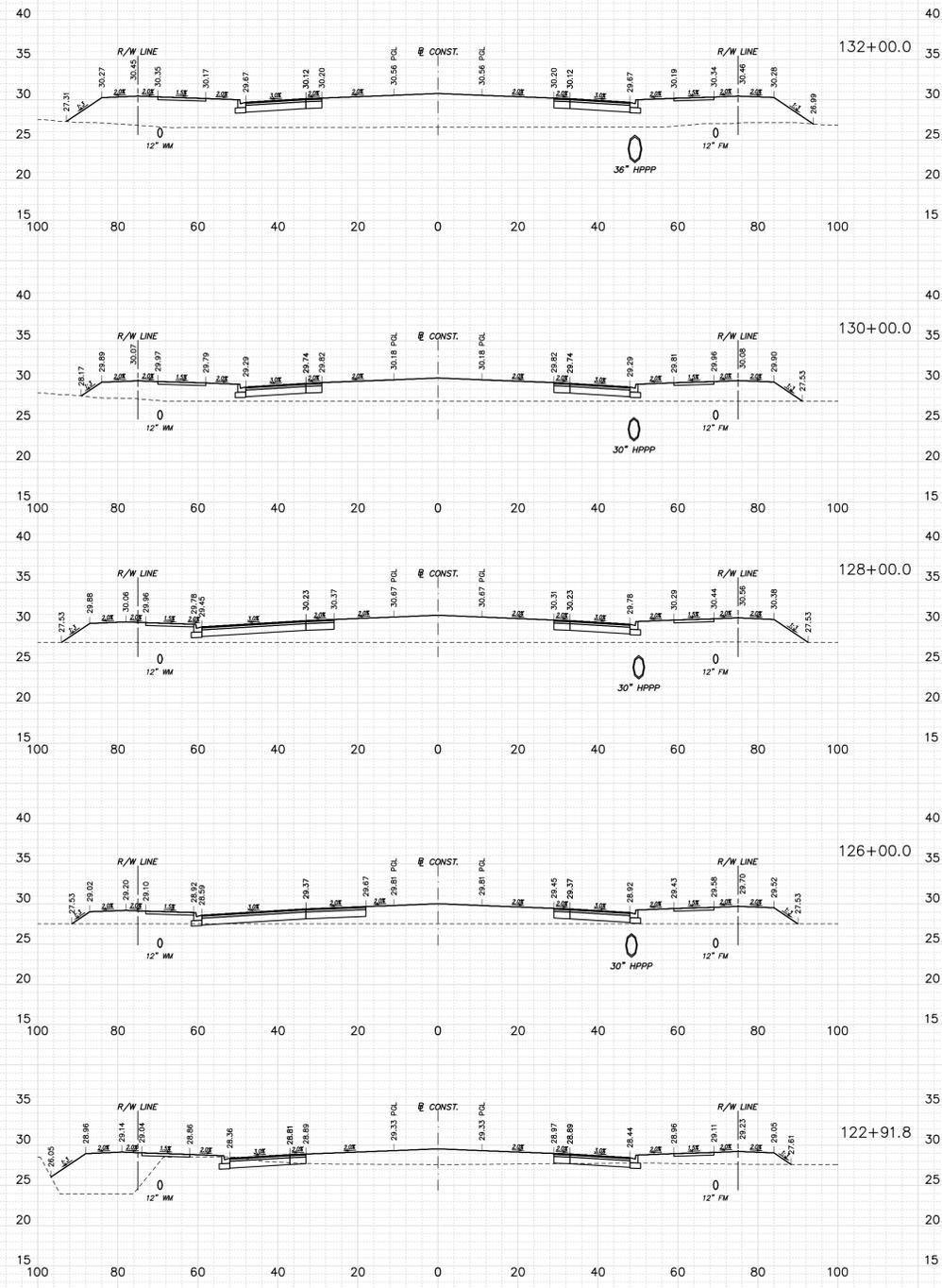
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BECKER ROAD WEST PHASE 2
PLAN AND PROFILE

DATE: 10/14/2022
HORIZ. SCALE: 1"=40'
VERT. SCALE: 1"=4'
JOB No. 21-063
SHEET 10 of 23

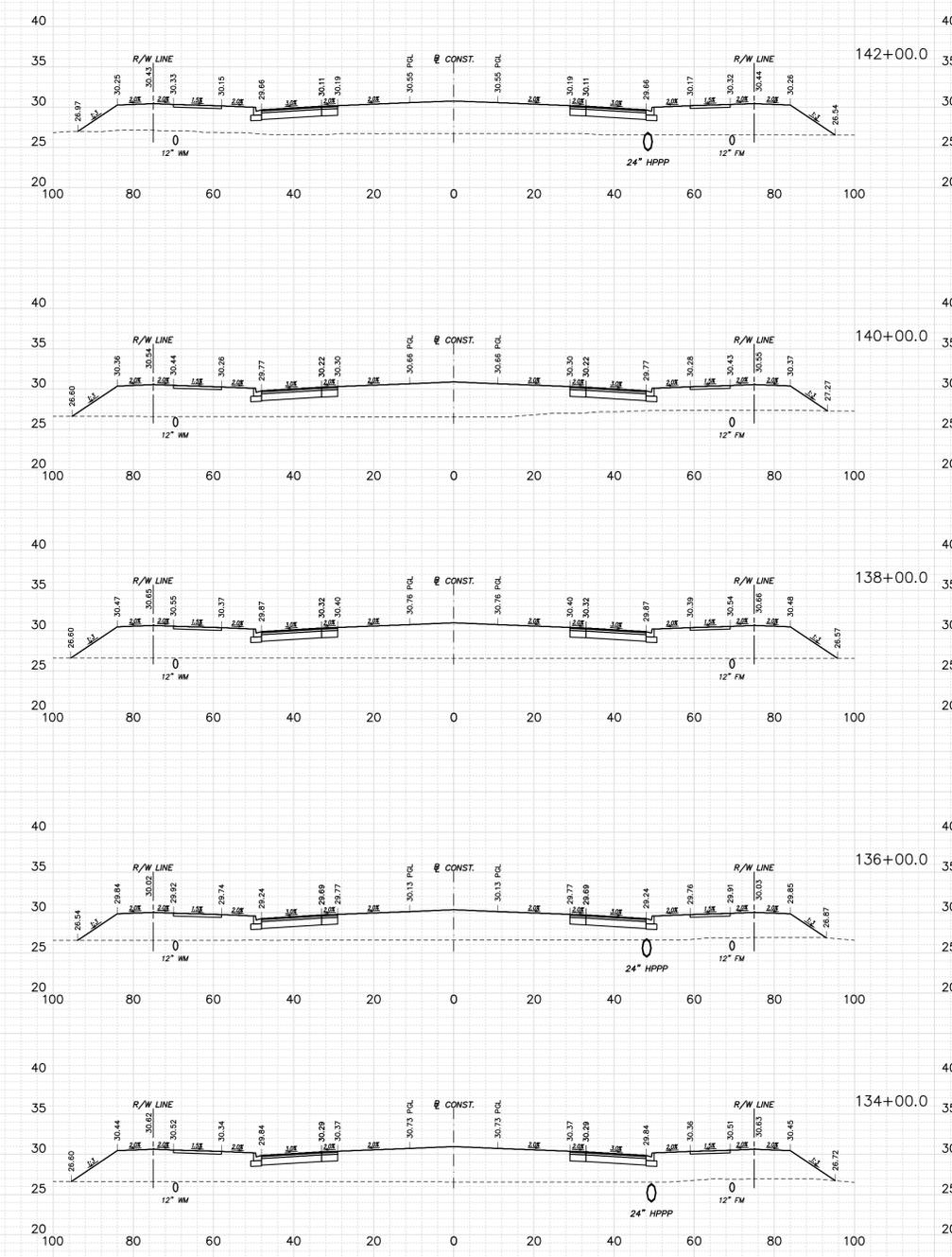
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MINIMUM ROAD CROWN = 28.50' NAVD

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
0.00	0.00	570.89	3387.58
0.00	10.83	343.76	2784.46
2.93	14.73	408.05	2404.59
1.05	130.49	241.19	2834.51
21.81		255.49	



H. SCALE: 1" = 20'
V. SCALE: 1" = 10'

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
0.00	0.00	568.66	4208.82
0.00	0.00	567.72	4453.88
0.00	0.00	634.83	4231.68
0.00	0.00	507.72	4181.91
0.00	0.00	621.39	4415.86

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



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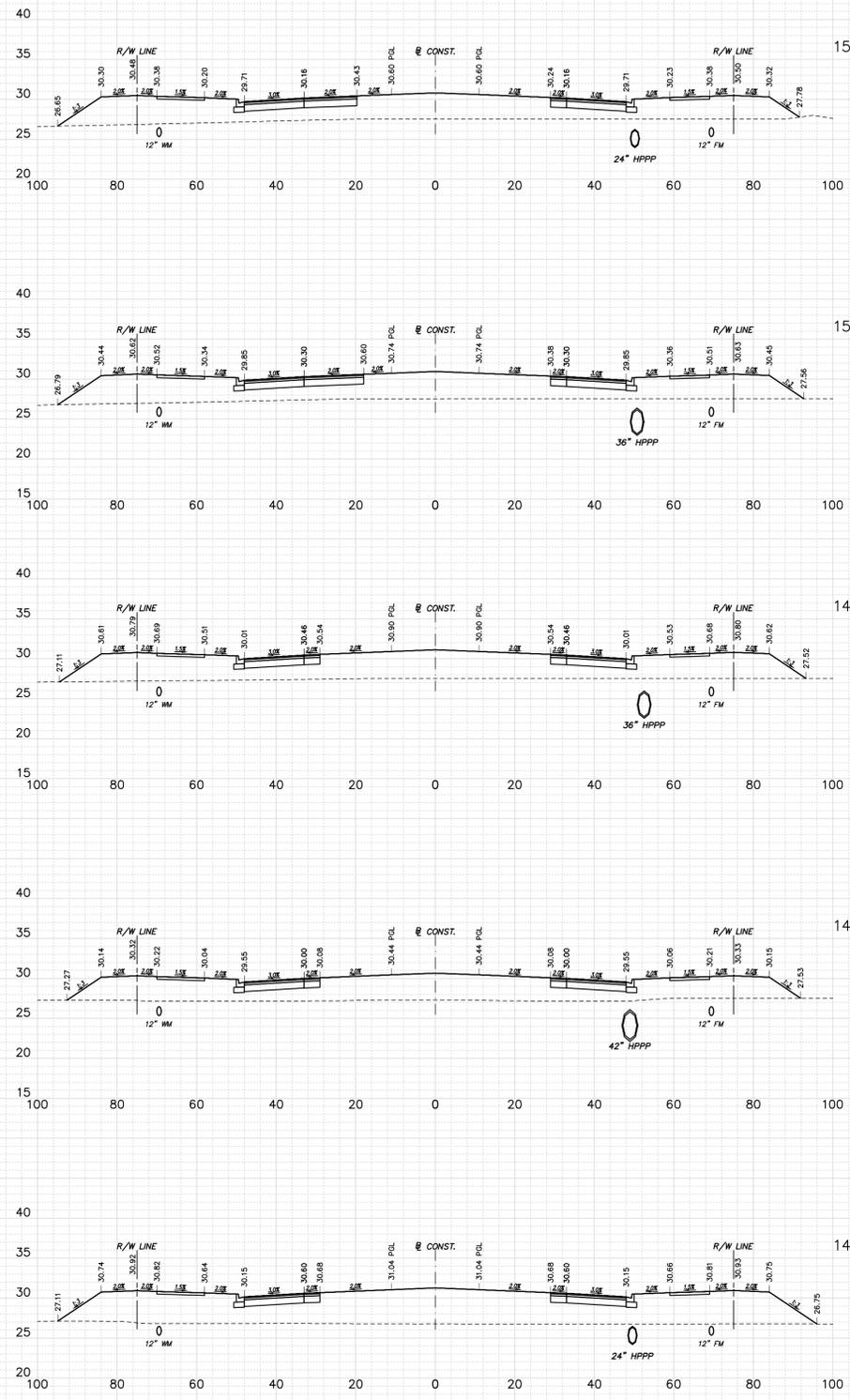
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BY	DATE	

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BECKER ROAD WEST PHASE 2
CROSS SECTIONS

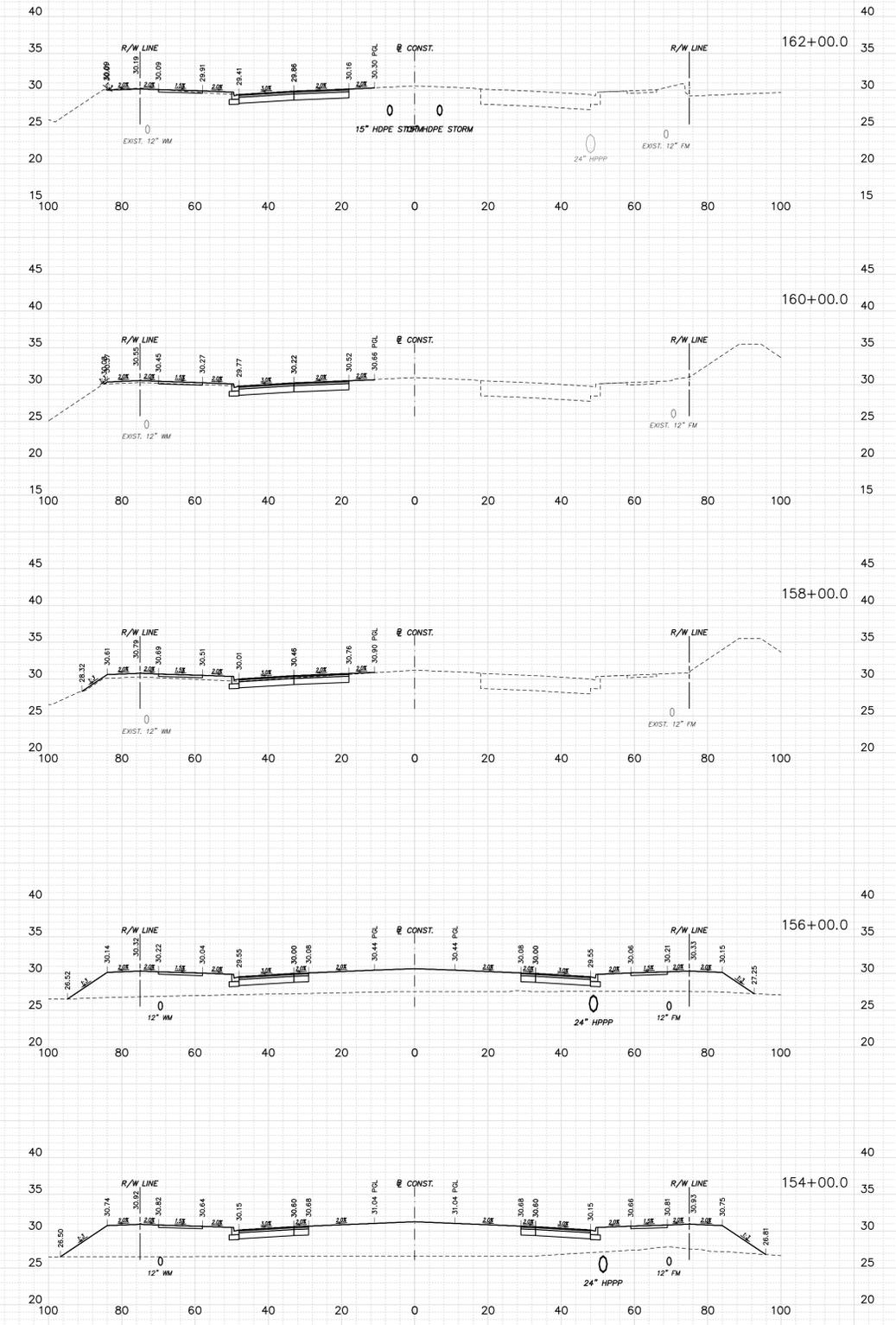
DATE: 10/14/2022
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VERT. SCALE: SCALE
JOB No. 21-063
SHEET 11 of 23

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MINIMUM ROAD CROWN = 28.50' NAVD

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
2.85	15.42	448.83	3386.27
1.40	7.39	464.73	3580.44
0.64	2.32	501.43	3504.19
0.00	0.00	444.33	4040.53
0.00	0.00	646.62	4501.04



H. SCALE: 1" = 20'
V. SCALE: 1" = 10'

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
42.37	311.20	2.06	29.05
41.35	270.02	5.73	82.49
31.05	115.78	16.24	1683.04
0.00	0.00	437.49	4039.76
0.00	10.35	652.19	4081.47

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHEWS, P.E.
FL. REG. NO. 38723



NOTES:
1) ALL ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (N.A.V.D.) OF 1988.

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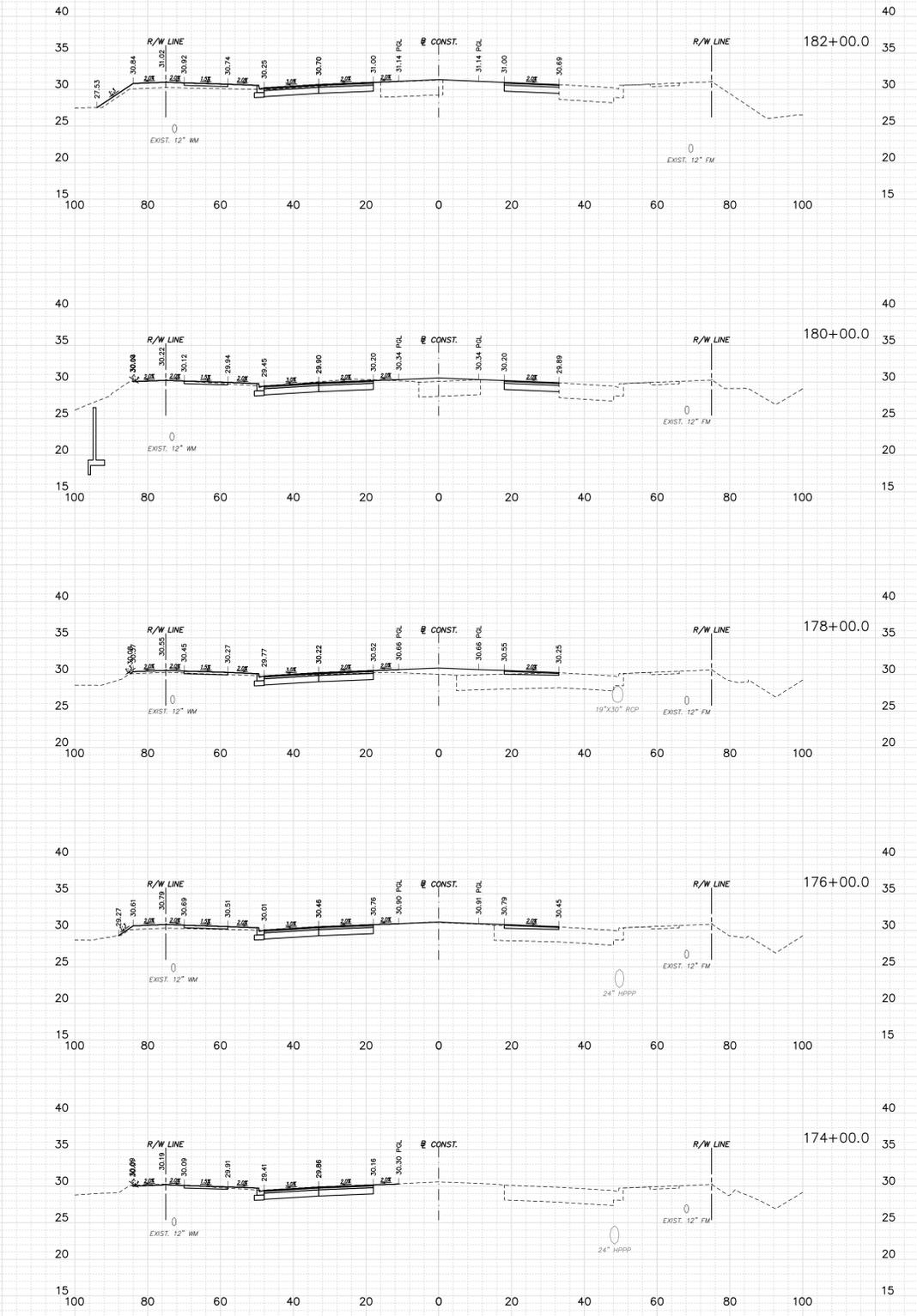
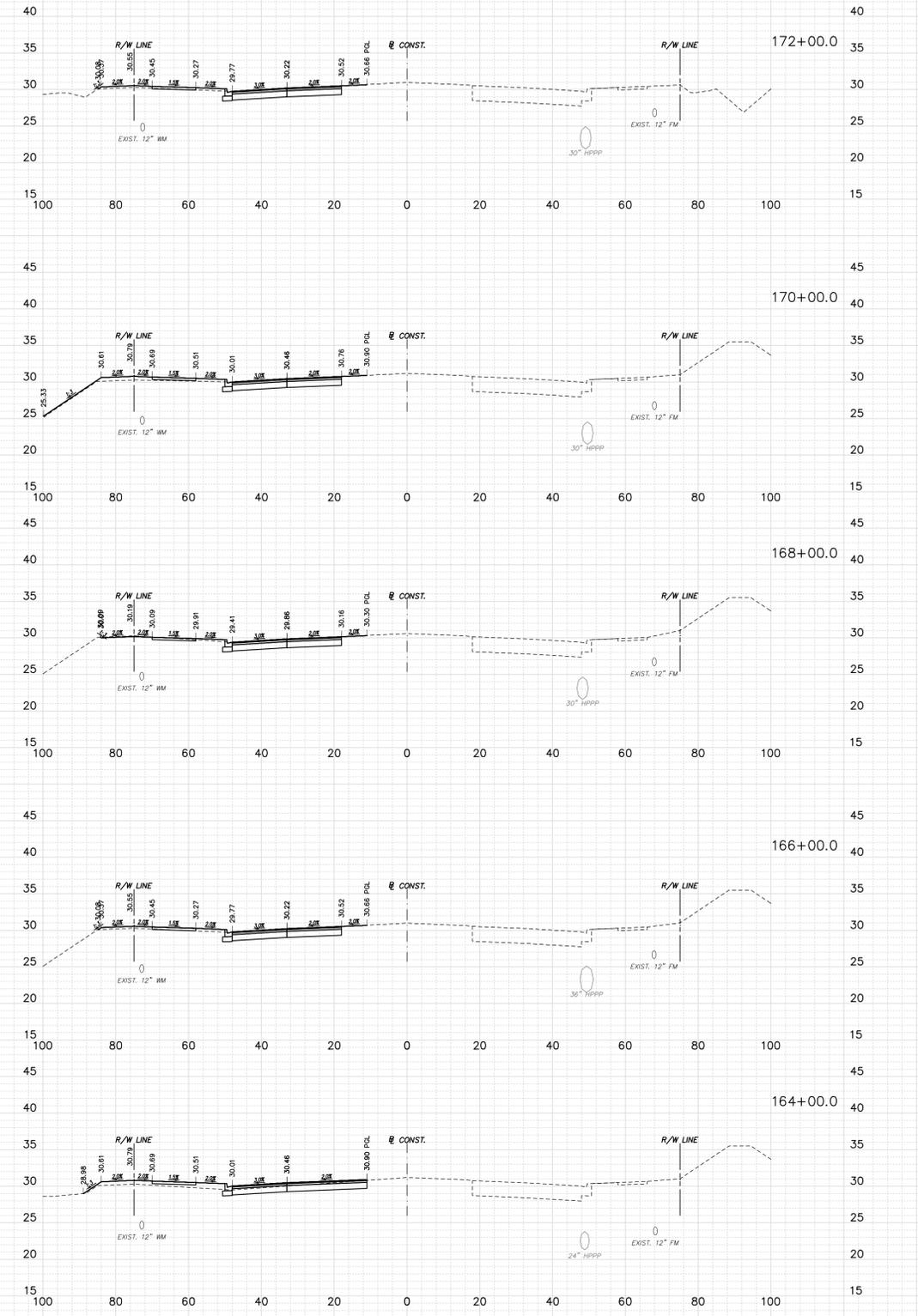
BECKER ROAD WEST PHASE 2
CROSS SECTIONS

DATE: 10/14/2022
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-063
SHEET 12 of 23

P:\Proj\2021\21-063 Becker Road West Phase 2 Design\Eng\21-063 Cross Sections.dwg Plotted: 8/29/2023 4:29 PM By: KITHSIRI UDUGAMA

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
39.41	288.55	6.06	70.87
38.50	301.26	13.07	54.47
42.84	301.62	1.64	30.06
38.59	265.98	6.48	89.12
33.22	279.97	17.58	72.77

REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
34.00	301.78	23.28	94.35
47.48	303.76	2.19	39.11
34.54	270.68	8.37	74.13
38.54	301.40	11.65	49.18
42.83	304.61	1.63	28.51



MINIMUM ROAD CROWN = 28.50' NAVD

H. SCALE: 1" = 20'
V. SCALE: 1" = 10'

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHEWS, P.E.
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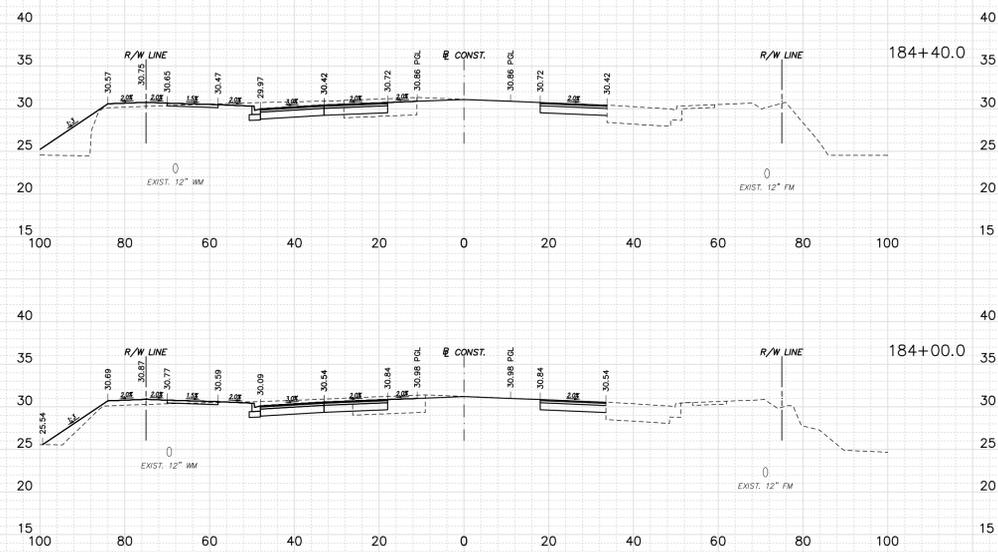
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DRAWN	DRP	10/29/21
DETAILED		
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APPROVED		

BECKER ROAD WEST PHASE 2
CROSS SECTIONS

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REGULAR EXC.		EMBK.	
A	V	A	V
(SF)	(CY)	(SF)	(CY)
65.54	92.02	41.70	46.28
TOTAL EXC. 4,243.52		TOTAL EMBK. 62,643.64	
58.70	343.36	20.79	163.22



H. SCALE: 1" = 20'
V. SCALE: 1" = 10'

MINIMUM ROAD CROWN = 28.50' NAVD

PSLUSD PROJECT NO. 5346B
CITY OF PSL PROJECT NO. P22-251

STEFAN K. MATTHES, P.E.
FL. REG. NO. 38723



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DRAWN	DRP	10/29/21
DETAILED		
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APPROVED		

BECKER ROAD WEST PHASE 2
CROSS SECTIONS

DATE: 10/14/2022
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-063
SHEET 14 of 23

J-DRAIN
Engineered Drainage Systems

**J-DRAIN SWD
18" End Outlet Connector**

Hole Diameter: 3 7/8"

18 1/2"

14 5/8"

18"

Tape both connection points

J-DRAIN SWD 18

J-DRAIN 18" End Outlet

Pipe

Note: Tape all connections to keep dirt and debris from entering flat panel drain core.

Info@j-drain.com www.j-drain.com

JDR Enterprises, Inc. 292 S. Main St., Suite 200 Alpharetta, GA 30009
(800) 843-7569 (770) 442-1461 Fax: (770) 664-7951

J-DRAIN
Engineered Drainage Systems

**J-DRAIN SWD
18" Side Outlet Connector**

Tape all connection points

J-DRAIN SWD 18"

J-DRAIN 18" Side Outlet

Pipe

END VIEW

SIDE VIEW

Note: Tape all connections to keep dirt and debris from entering flat panel drain core.

Info@j-drain.com www.j-drain.com

JDR Enterprises, Inc. 292 S. Main St., Suite 200 Alpharetta, GA 30009
(800) 843-7569 (770) 442-1461 Fax: (770) 664-7951

J-DRAIN
Prefabricated Drainage Composites

Highway Edge Drains

BRO-EDGE-0316

PAVEMENT SHOULDER BACKFILL

J-DRAIN SWD

TYPICAL HIGHWAY EDGE DRAIN DETAIL

J-DRAIN SWD-12, 18, 24, & 36

Also available with AASHTO approved D.O.T. fabric upon request.

Product Description

J-DRAIN SWD is a composite drainage system consisting of a 3-dimensional, high flow, drainage core and a non-woven, needle-punched filter fabric. The filter fabric is wrapped and bonded to the drainage core, preventing intrusion of the filter fabric into the flow channels during the backfilling process. Soil particles are held back by the filter fabric allowing water to pass through to the drainage core to be collected and conveyed to the discharge point.

Physical Properties

	Core	Fabric	MADE IN USA
Compressive Strength (ASTM D-1021)	9,500 psf	Flow (ASTM D-4491)	140 gpm/ft ² (5638 lpm/ft ²)
Thickness (ASTM-1777)	1 in.	CBR Puncture (ASTM D-4241)	250 lbs. (1.11 kN)
In-Plane Flow (ASTM-D-4716)	30 gpm/ft width (372 lpm/m)	AOS (ASTM D-4751)	70 U.S. Sieve (212 mm)
(Q85) 10 psf @ Hydraulic gradient = 1		Grab Tensile (ASTM D-4632)	100 lbs. (45 kN)
		Mullen Burst (ASTM D-3786)	210 PSI (1447 KPa)
		U.V. Resistance (ASTM D-4355)	70% @500 hrs.

Roll Weight: 38, 60, 83, 98, & 128 lbs. (17, 30, 37, 44, & 57 kg)

Roll Width: 6", 12", 18", 24", & 36" (15, 30, 38, 45, & 60 cm)

Roll Length: 165 ft. (50.29 meters)

Info@j-drain.com www.j-drain.com

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J-DRain SWD
Edge Drain Composites

Installation Instructions:

- Determine Drainage Layout:**
Locate area that requires drainage and slope to determine direction of drainage system to daylight.
- Mark and Excavate Trenches:**
Locate and mark all utility lines. Using this as consideration, mark field or drainage area with a chalk line at trench locations. Excavate trenches 2" - 3" (33 - 105 mm.) wide and to a depth so that the top of the J-DRain SWD is 6" below the turf surface.
- Install into Trench:**
Unroll and place J-DRain SWD vertically into trench. Center with temporary wood stakes.
- Install Fittings:**
Install proper fittings and tape fittings in place with J-tape to ensure solid connection to drain.
- Connect to Pipe:**
Connect J-DRain SWD with fitting to pipe to take water to daylight. Tape.
- Backfill:**
Pour select backfill such as washed concrete sand.
- Top off and replace sod:**
Remove temporary stakes and flood trench with water to promote proper compaction. Top off trench with sand and replace sod.

General Cross Section Diagram

Info@j-drain.com www.j-drain.com

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J-DRain
SWD-18 end out connection

Tape both connection points

J-DRain SWD 18

J-DRain End Outlet

Pipe

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(800) 843-7569 (770) 442-1461 Fax: (770) 664-7951

J-DRain
SWD-18 side out connection

Tape all connection points

J-DRain SWD 18

J-DRain Side Outlet

Pipe

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(800) 843-7569 (770) 442-1461 Fax: (770) 664-7951

Inserta Tee Fittings
Save Time and Money

ADS offers Inserta Tee, a high-performance, easy-to-install service connection consisting of a PVC hub, rubber sleeve and stainless steel band. Time will be saved on the job site with this unique lateral connection solution.

Applications

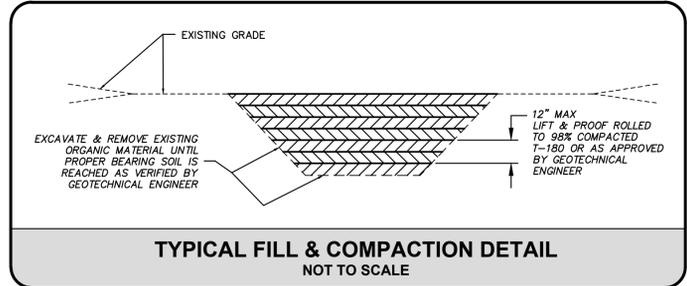
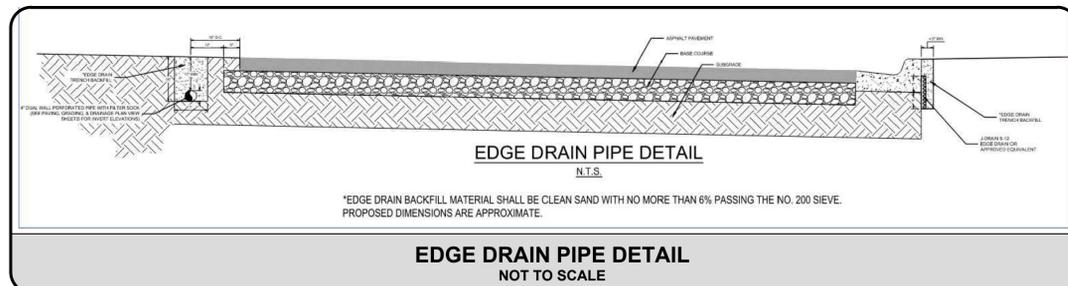
- Drainage
- Irrigation
- Wet wells
- Catch basins

Benefits

- 5-10 times faster installation than traditional fabricated fittings
- Watertight and sturdy, allowing no soil infiltration
- Requires 100 pounds of pressure to get the fitting out once installed
- Versatile enough to be installed on all products (concrete, clay, plastic, etc.) and sizes. Available in 2"-24" (50-600 mm) diameters
- Take up less space than fabricated fittings and come in multi-fit options so you can eliminate SKUs.

Any Mainline or Structure

ADSPipe.com 800-733-3689



GENERAL NOTES

1. EDGE DRAIN SLOPES SHALL BE CONSTRUCTED INCONJUNCTION WITH THE PGL SLOPES OF THE ROADWAY (MINIMUM 0.3% SLOPE).
2. THE CONNECTION POINTS OF THE EDGE DRAIN TO THE MANHOLES SHALL BE CONNECTED USING THE ADS INSERTA TEE FITTING OR APPROVED EQUAL ALONG WITH ANY NECESSARY ADS BENDS OR FITTINGS OR APPROVED EQUALS.



NOTES:

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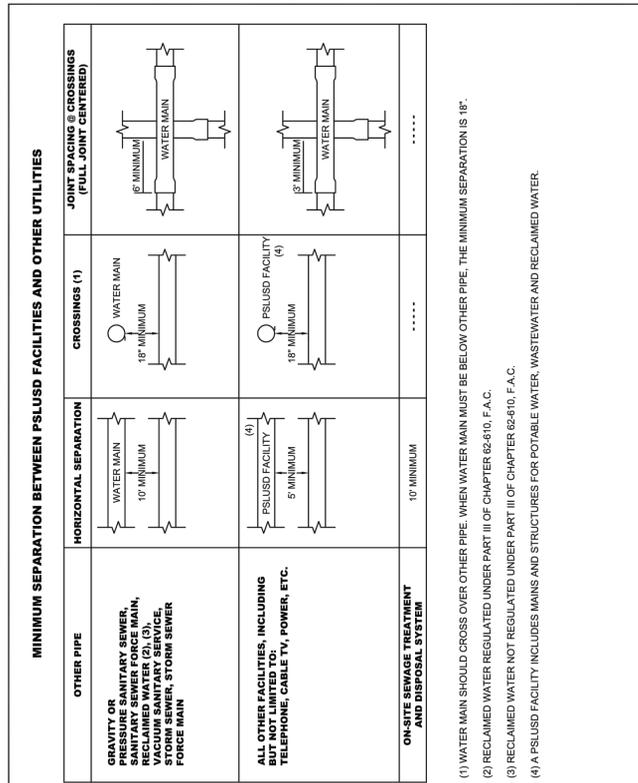
BECKER ROAD WEST PHASE 2

DRAINAGE DETAILS

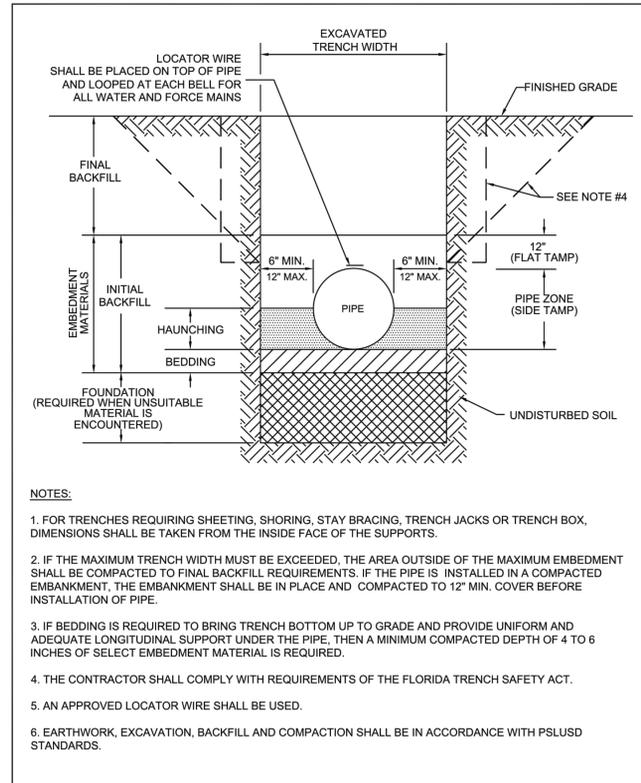
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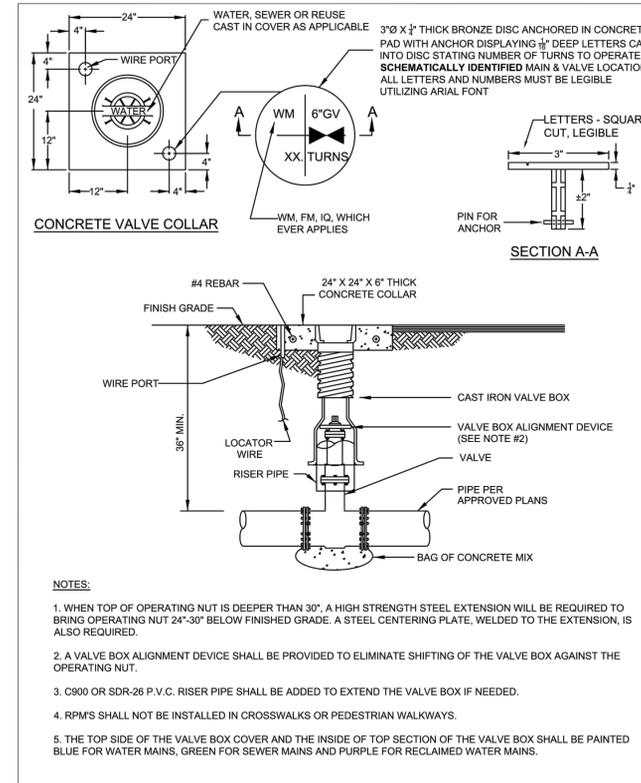
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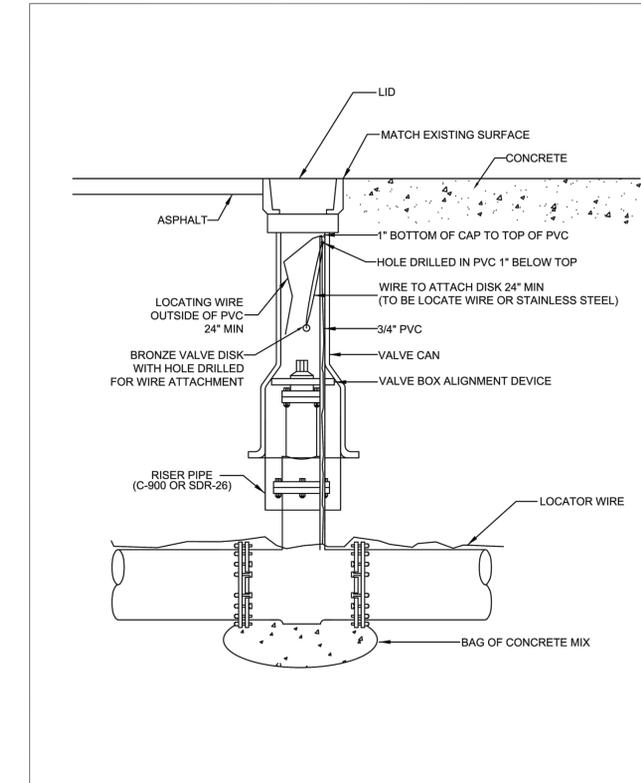
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	STANDARD SEPARATION REQUIREMENTS	DETAIL: G-01 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1



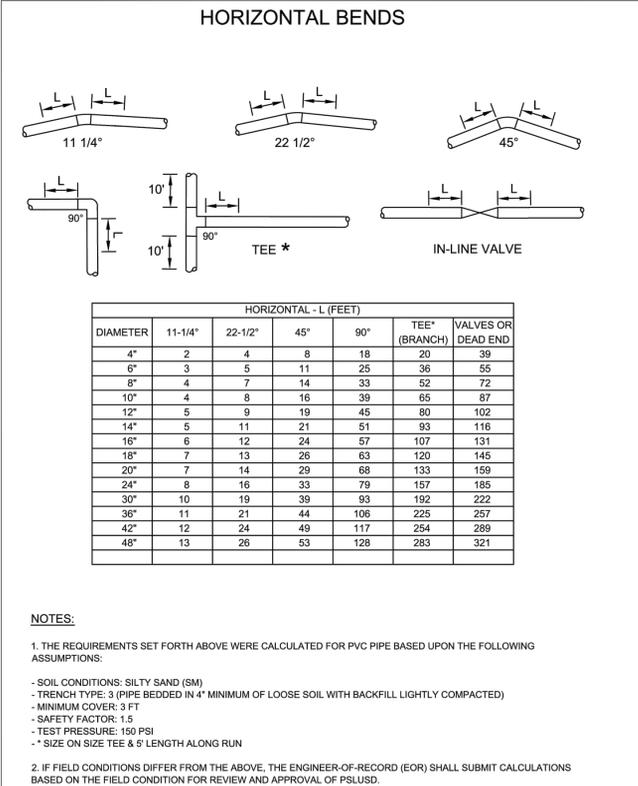
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	STANDARD PIPE TRENCH CROSS SECTION	DETAIL: G-04 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1



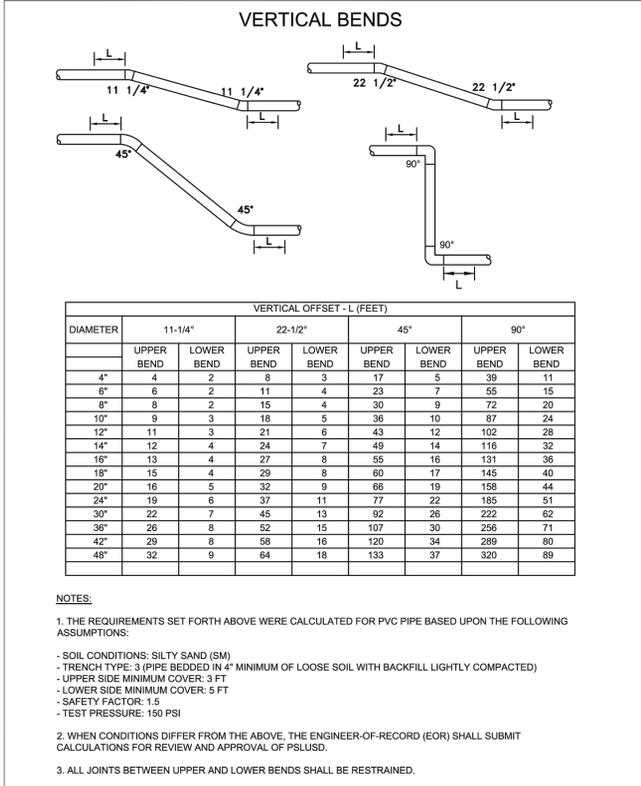
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TYPICAL VALVE BOX AND COLLAR IN UN-PAVED AREA	DETAIL: G-07 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 2



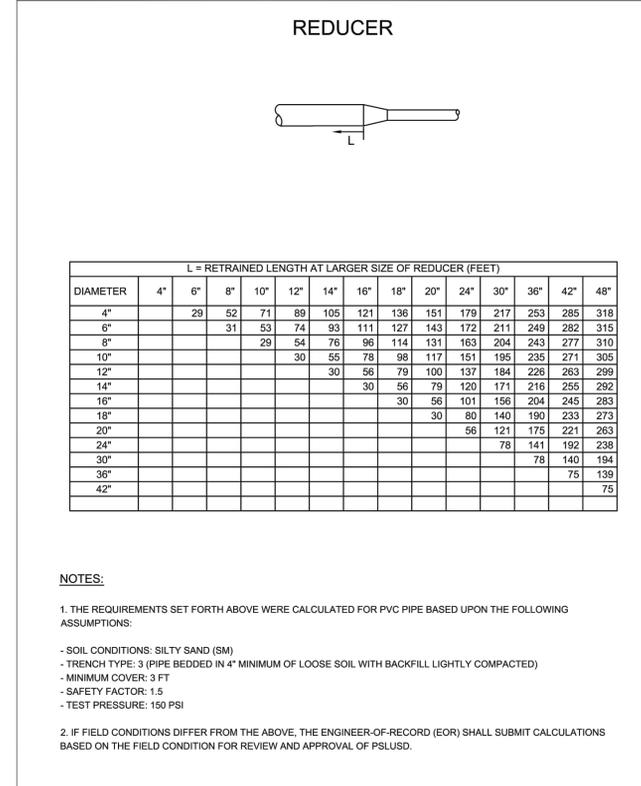
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TYPICAL VALVE BOX IN PAVED AREA	DETAIL: G-07 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 2



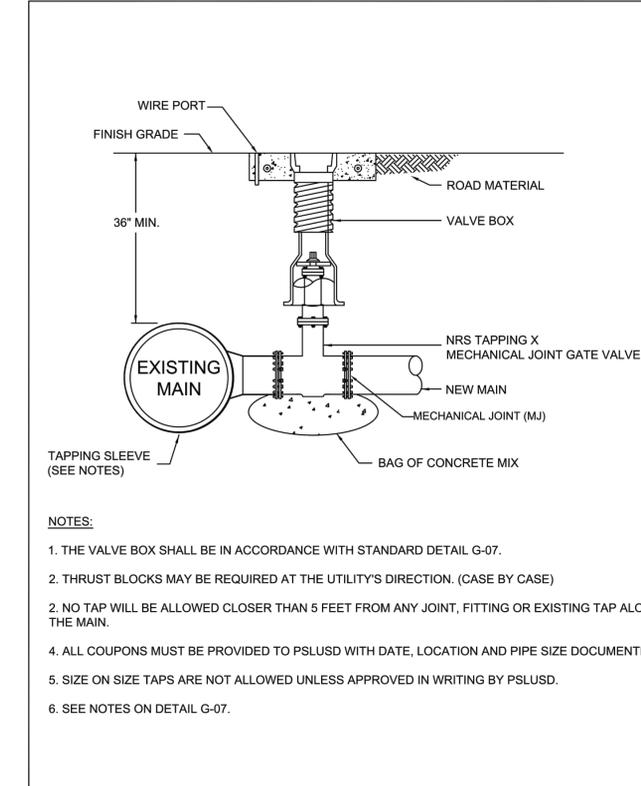
MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	PIPELINE RESTRAINT REQUIREMENTS (HORIZONTAL)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 3



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	PIPELINE RESTRAINT REQUIREMENTS (VERTICAL)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 2 OF 3



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	PIPELINE RESTRAINT REQUIREMENTS (REDUCER)	DETAIL: G-09 DATE: 2019 SCALE: N.T.S. SHEET: 3 OF 3



MINIMUM CONSTRUCTION STANDARDS FOR CITY OF PORT ST. LUCIE 900 S.E. OGDEN LANE PORT ST. LUCIE, FL 34983 PHONE (772) 873-6400 FAX (772) 873-6433	TAPPING SLEEVE AND VALVE ASSEMBLY	DETAIL: G-10 DATE: 2019 SCALE: N.T.S. SHEET: 1 OF 1

PSLUSD PROJECT NO. 5346B
 CITY OF PSL PROJECT NO. P22-251
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723

811
 Know what's below.
 Call before you dig.

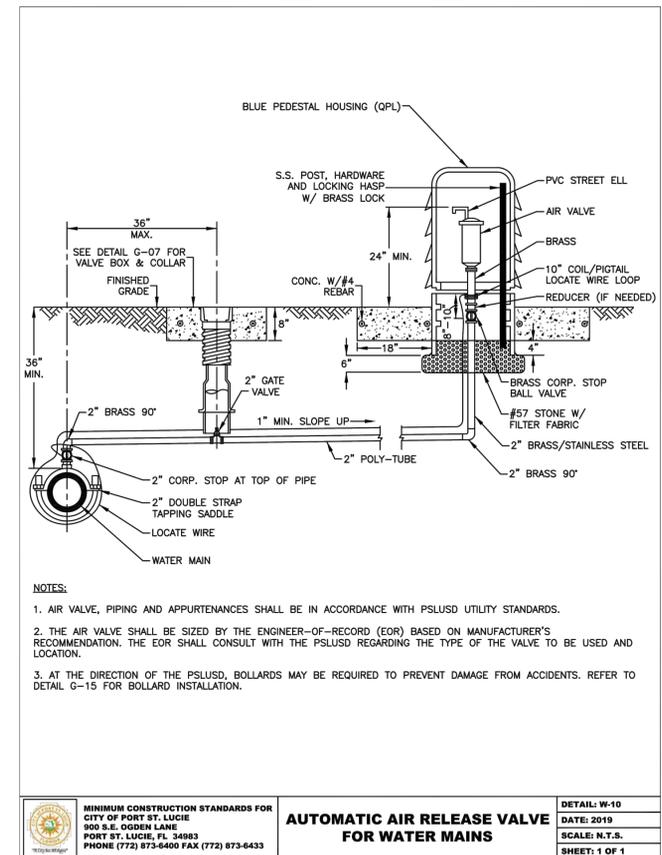
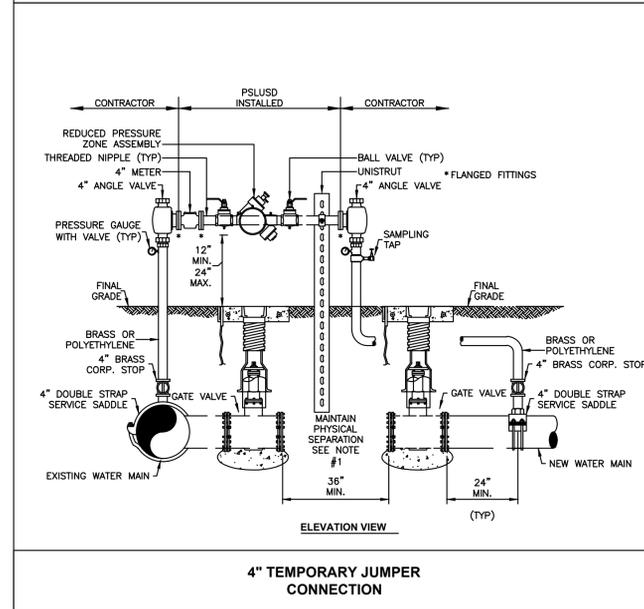
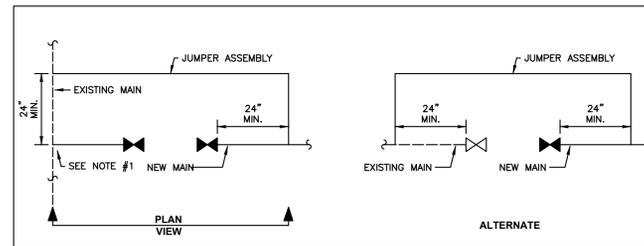
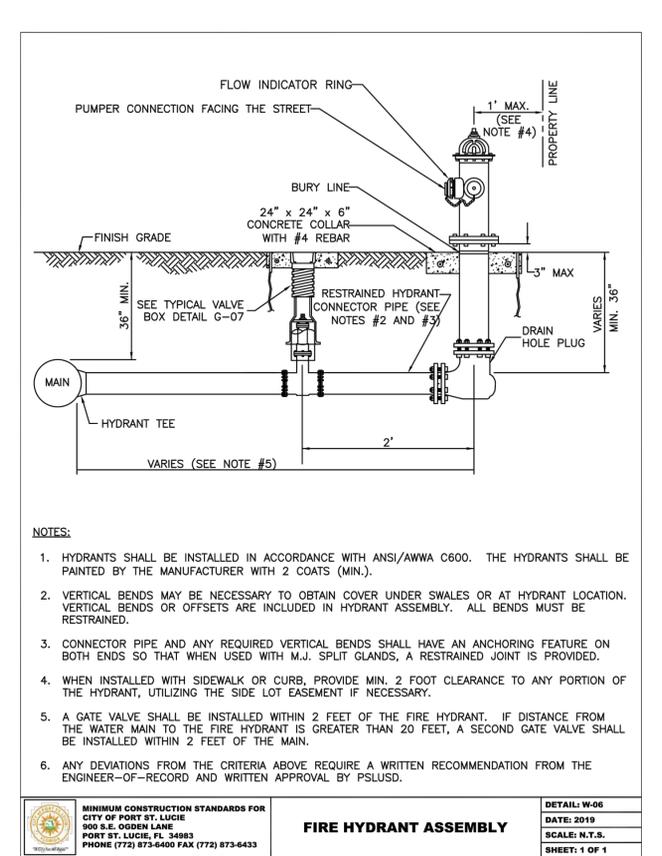
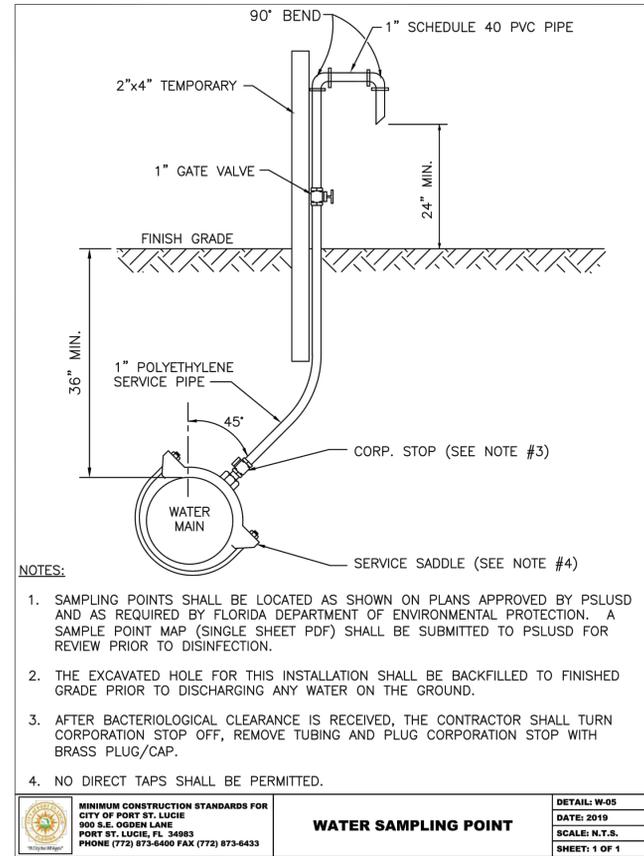
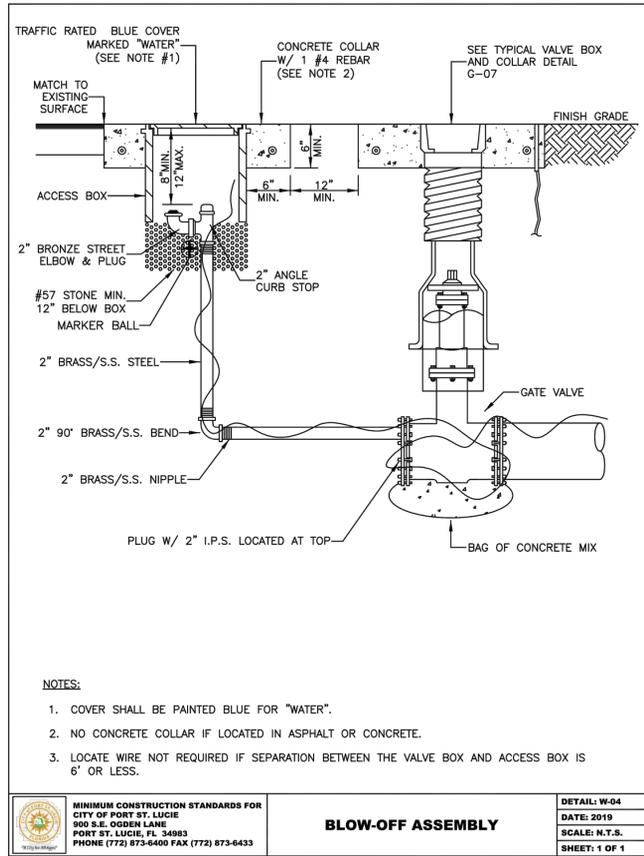
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Detailed			
Checked			
Approved			

BECKER ROAD WEST PHASE 2

UTILITY DETAILS

DATE: 10/14/2022
 HORIZ. SCALE: SCALE
 VERT. SCALE: SCALE
 JOB No. 21-063
 SHEET 16 of 23



PSLUSD PROJECT NO. 5346B
 CITY OF PSL PROJECT NO. P22-251
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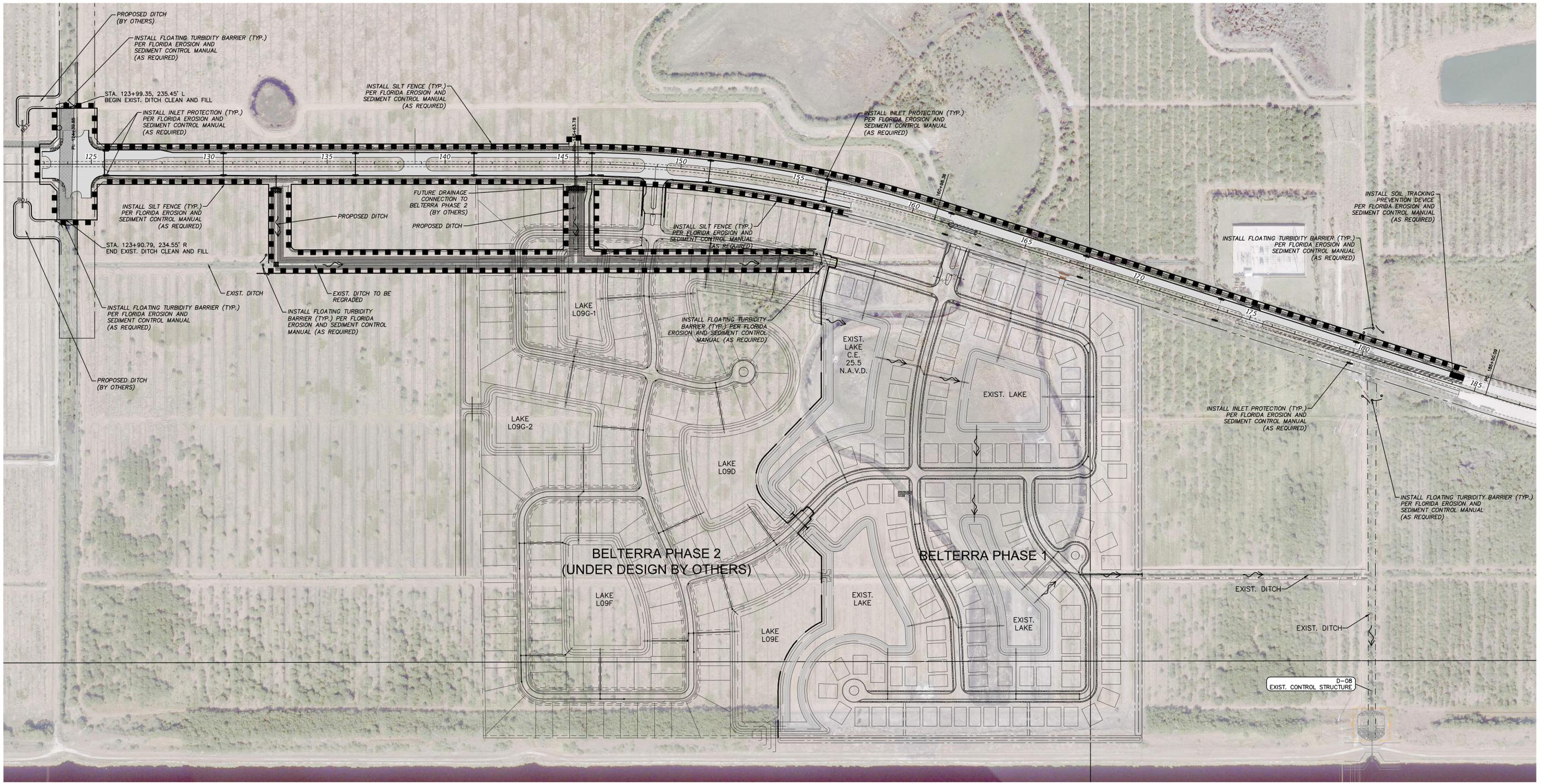
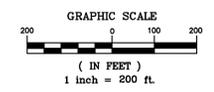
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DESIGNED		
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DETAILED		
CHECKED		
APPROVED		

BECKER ROAD WEST PHASE 2
UTILITY DETAILS

DATE: 10/14/2022
 HORIZ. SCALE: SCALE
 VERT. SCALE: SCALE
 JOB No. 21-063
 SHEET 17 of 23



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CITY OF PSL PROJECT NO. P22-251
STEFAN K. MATTHES, P.E.
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DRAWN	DRP	10/29/21
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CHECKED		
APPROVED		

BECKER ROAD WEST PHASE 2
EROSION AND SEDIMENT CONTROL PLAN

DATE: 10/14/2022
HORIZ. SCALE: 1"=200'
VERT. SCALE: N/A
JOB No. 21-063
SHEET 18 of 23

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEDIMENTATION AND EROSION CONTROL ON THE PROJECT. THE SEDIMENTATION AND EROSION CONTROL PRESENTED IN THESE PLANS ARE FOR REFERENCE ONLY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A SWPPP PLAN AND THE FDEP NOI TO THE CITY FOR REVIEW AND APPROVAL.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT CONSISTS OF CONSTRUCTION OF NEW ROADWAY WEST FROM END OF EXISTING BECKER ROAD TO FUTURE COMMUNITY BLVD.

THE LIMITS OF THE PROJECT INCLUDE:

6,000 LF OF ROADWAY, DRAINAGE AND UTILITIES FROM END OF EXISTING BECKER ROAD TO FUTURE COMMUNITY BLVD.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENCE SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER PROJECT COMPLETION AND ACCEPTANCE.

SILT FENCE AND FLOATING TURBIDITY BARRIER IS TO BE PLACED ONLY WITHIN THE CONSTRUCTION LIMITS. SILT FENCE PLACEMENT, STAKING AND TRENCHING SHALL BE COORDINATED TO MINIMIZE IMPACT TO NATIVE VEGETATION AND TREES TO REMAIN. CONTRACTOR TO PROVIDE SERVICE OF CERTIFIED ARBORIST IN AREAS WHERE POTENTIAL DAMAGE TO ROOT SYSTEMS OF MATURE TREES MAY OCCUR.

1. INSTALL EROSION AND SEDIMENT CONTROL MATERIALS.
2. CLEARING AND GRUBBING, EARTHWORK AND EXCAVATION OF OPEN SWALES. REMOVE EXISTING UNWANTED SOILS, CONCRETE AND STORM DRAIN FACILITIES AND PROPERLY DISPOSE OF THE MATERIALS.
3. INSTALLATION OF STORM DRAIN FACILITIES AS CALLED FOR IN THE PLANS.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF THE ROADWAY.
5. STABILIZE AND SOD THE UNPAVED PROJECT AREAS.

1.C. AREA ESTIMATED

TOTAL SITE AREA: 23.4 ± AC
TOTAL AREA TO BE DISTURBED: 18.5 ± AC

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:
BEFORE: 0.3
DURING: VARIES FROM 0.3 TO 0.7
AFTER: 0.76

OUTFALL INFORMATION:

DRAINAGE WILL BE A SERIES OF CURB INLETS WITH THE PROJECT OUTFALLING TO A LATERAL DITCH OUTFALL TO SOUTHERN GROVE BASIN F.

SURFACE WATERS: SOUTHERN GROVE BASIN F AND SFWMD C-23 CANAL.

DISCHARGE POINTS TO SURFACE WATERS:

THE DISCHARGE POINT IS TO THE SOUTHERN GROVE BASIN F.

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES ARE PROVIDED IN THE SFWMD PERMIT AND FLOW DIRECTIONS ARE SHOWN ON THE OFFSITE DRAINAGE MAP.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTIONS SHEETS AND THE PLAN-PROFILE SHEETS.

- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, AND THE CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

- AREAS NOT TO BE DISTURBED: THE AREAS TO NOT TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS AND THE CROSS SECTION SHEETS AS THE EXISTING PHASE 1 ROADWAY AND SIDEWALK.

- LOCATION OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL PLAN SHEETS. TABLES PROVIDING SUMMARIES OF THE TEMPORARY EROSION AND SEDIMENT CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITIES SHEETS.

- LOCATION OF PERMANENT CONTROLS: NOT APPLICABLE

- AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE CONTRACTORS SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINE IN THE CONSTRUCTION PLANS, WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS. THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THEIR SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITY, AND THE NEED FOR BETTER PRACTICES.

CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT MILLED MATERIAL FROM ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING INLETS CLEAR OF PAVING MATERIAL, SILT, LIME-ROCK, AND DEBRIS DURING THE CONSTRUCTION AT NO ADDITIONAL COST.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 3 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CLOSED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY ENGINEER.

TEMPORARY:

-ARTIFICIAL COVERINGS IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 104.

- TURF AND SOD IN ACCORDANCE WITH FDOT SPECIFICATIONS SECTION 104.

PERMANENT:

-ASPHALT OR CONCRETE SURFACE.

-SOD IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 575.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

- SEDIMENT BARRIERS IN ACCORDANCE WITH FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

- INLET PROTECTION IN ACCORDANCE WITH FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

PERMANENT:

- SOD.

2.B STORMWATER MANAGEMENT:

RUNOFF WILL BE DIRECTED TO THE PROPOSED OPEN SWALE AND CLOSED CONDUIT STORM DRAINAGE SYSTEM. THE STORMWATER WILL FLOW THROUGH THE INFRASTRUCTURE AND DISCHARGE INTO THE VARIOUS OUTFALLS AS DESCRIBED IN SECTION 1.D.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

- DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

- DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENT AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY ENGINEER.

- COVERING LOADED HAUL TRUCKS WITH TARPULINS.

- REMOVING EXCESS DIRT FROM ROADS DAILY.

- STABILIZED CONSTRUCTION ENTRANCES ACCORDING TO FLORIDA EROSION & SEDIMENT CONTROL MANUAL.

- USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATION FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATION:

IN THE FDOT SPECIFICATIONS SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THE ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

-THE PROJECT IS CURRENTLY UNDER REVIEW.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- SILT FENCE: MAINTAIN PER FDOT SPECIFICATIONS SECTION 104. THE CONTRACTOR SHOULD ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS OR AS NECESSARY.

- SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN PREPARED BY THE CONTRACTOR.

- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.

- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.

- STRUCTURAL CONTROLS.

- STORMWATER MANAGEMENT SYSTEMS.

- LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZED EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE CITY OF PORT ST. LUCIE PROJECT MANAGER.

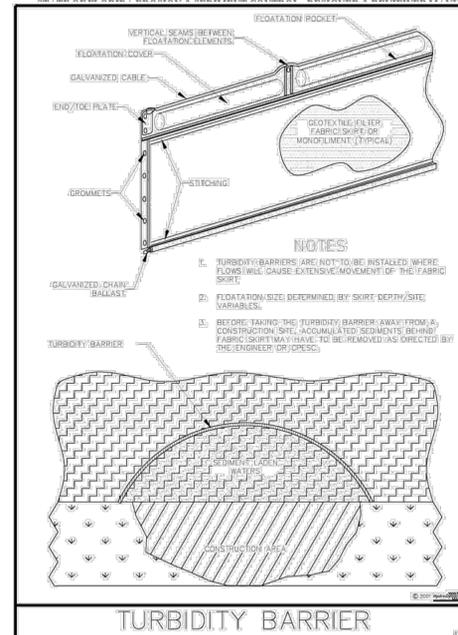


Figure V-44: Illustration of a Turbidity Barrier Curtain

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V-15

CHAPTER 4: BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENTATION CONTROL

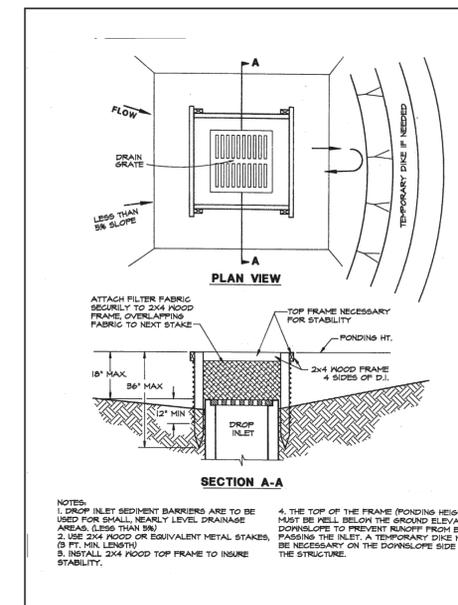


Figure 4.5a. Silt Fence Drop Inlet Sediment Barrier

Source: Erosion Draw

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STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

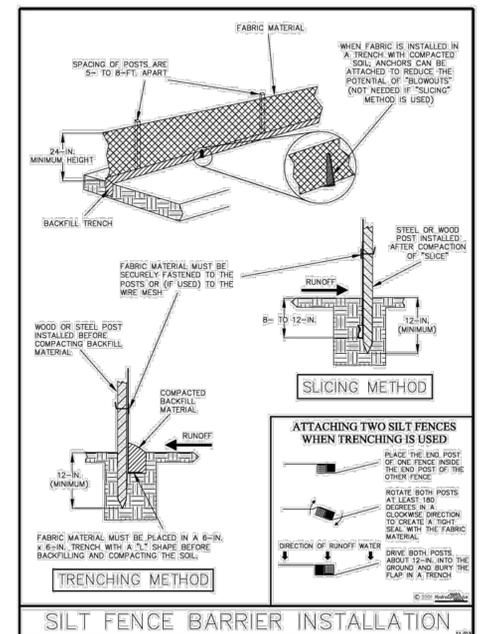


Figure V-40: Illustration of a Silt Fence Barrier

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STATE OF FLORIDA EROSION & SEDIMENT CONTROL - DESIGNER & REVIEWER MANUAL

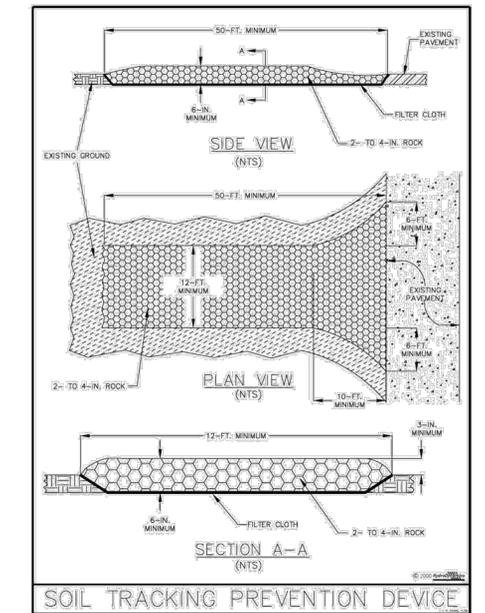


Figure V-52: Illustration of a Soil Tracking Prevention Device

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Know what's below.
Call before you dig.

NOTES:
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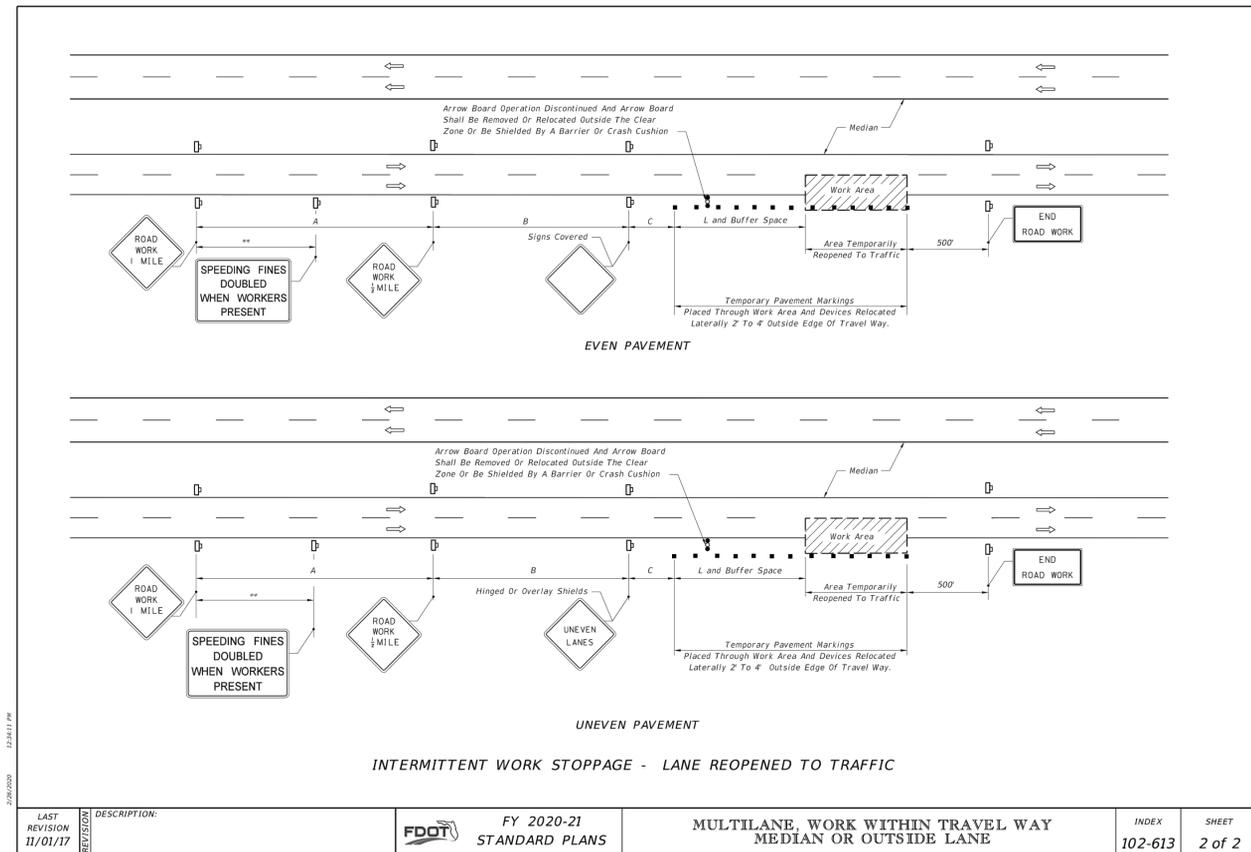
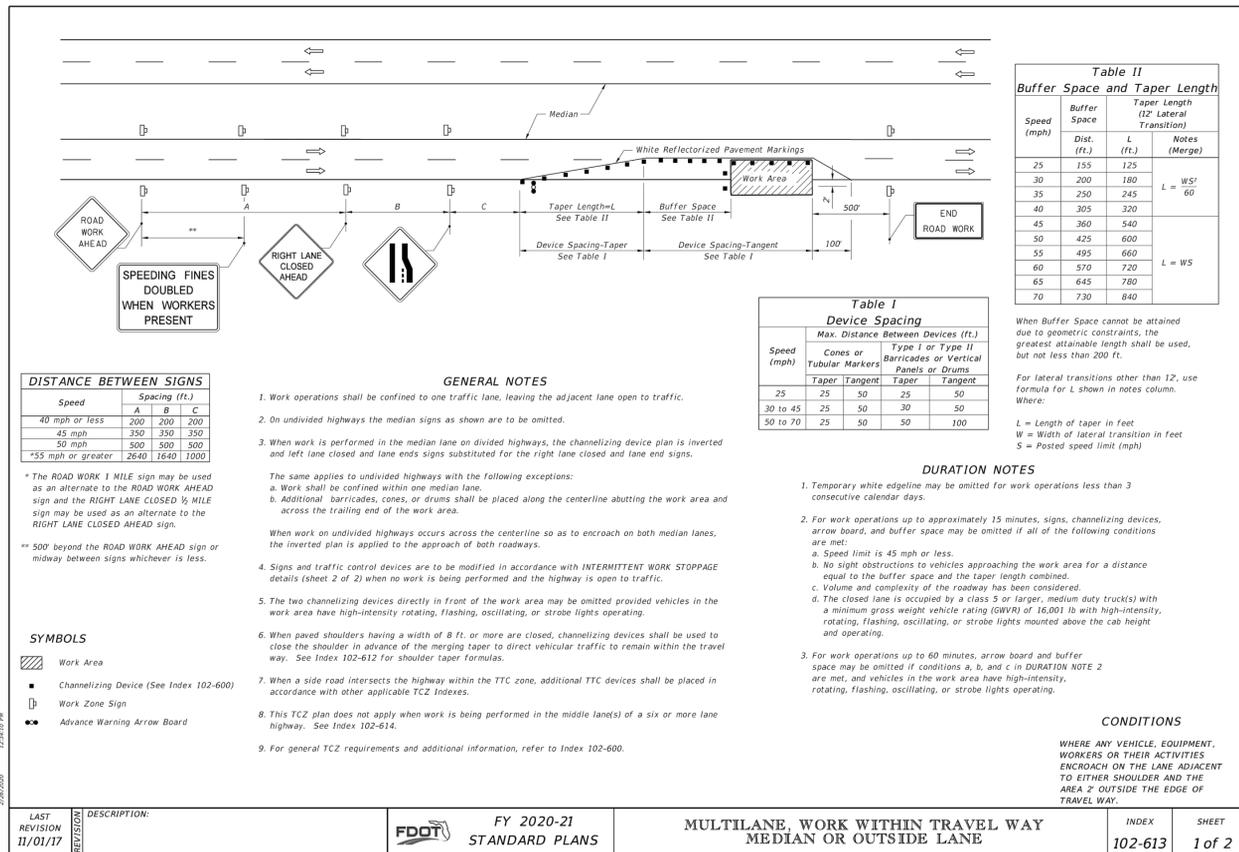
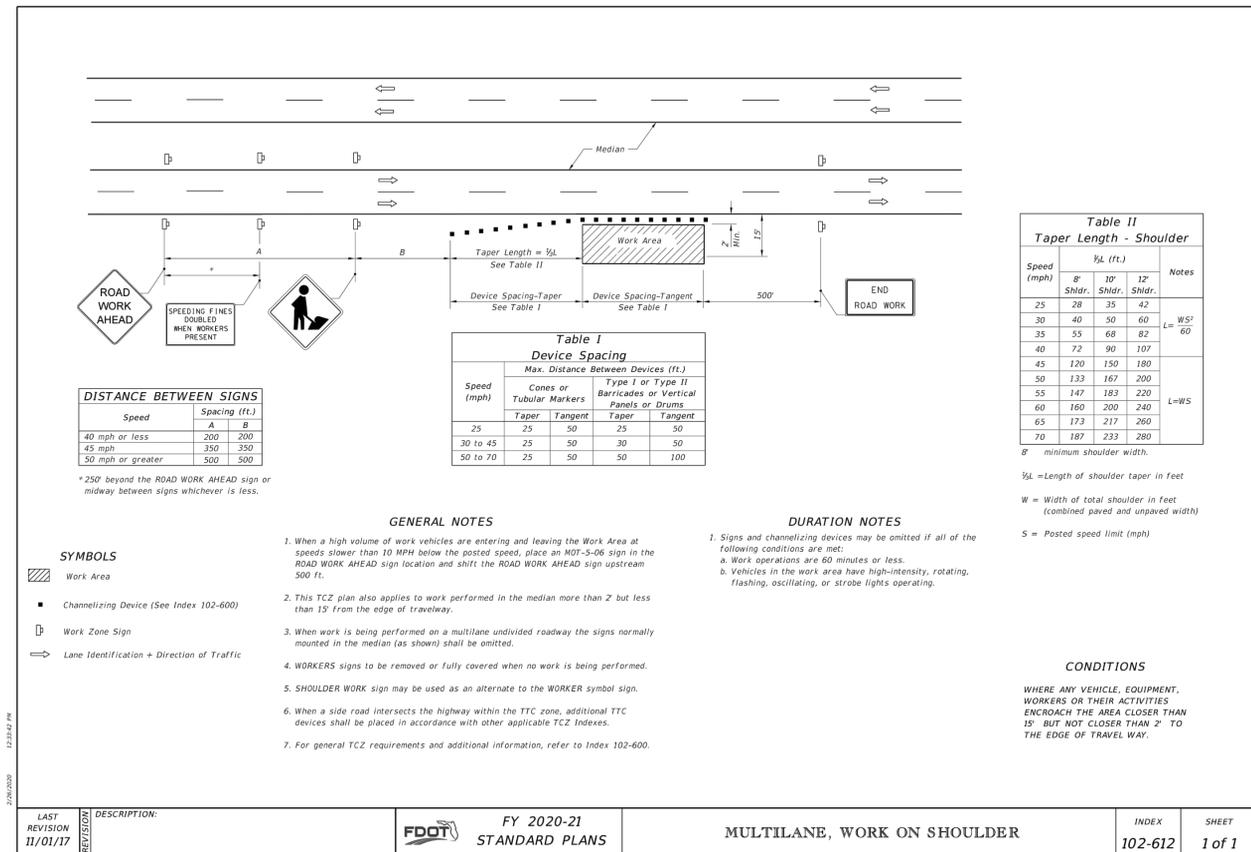
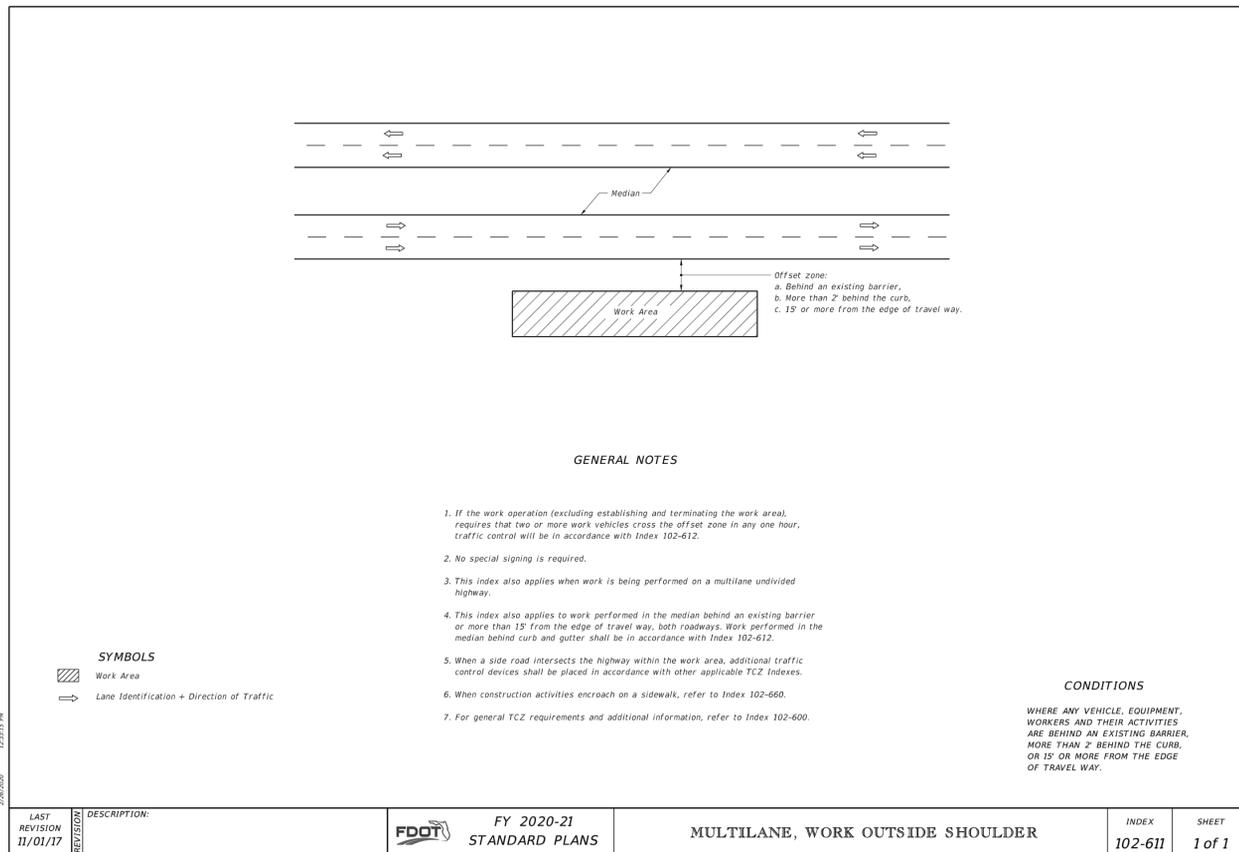
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BECKER ROAD WEST PHASE 2
EROSION AND SEDIMENT CONTROL
NOTES

DATE: 10/14/2022
HORIZ. SCALE: SCALE
VERT. SCALE: SCALE
JOB No. 21-063
SHEET 19 of 23



LAST REVISION	DESCRIPTION	FY 2020-21 STANDARD PLANS	MULTILANE, WORK WITHIN TRAVEL WAY MEDIAN OR OUTSIDE LANE	INDEX	SHEET
11/01/17				102-613	1 of 2

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11/01/17				102-613	2 of 2

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BECKER ROAD WEST PHASE 2

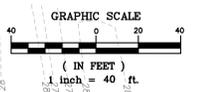
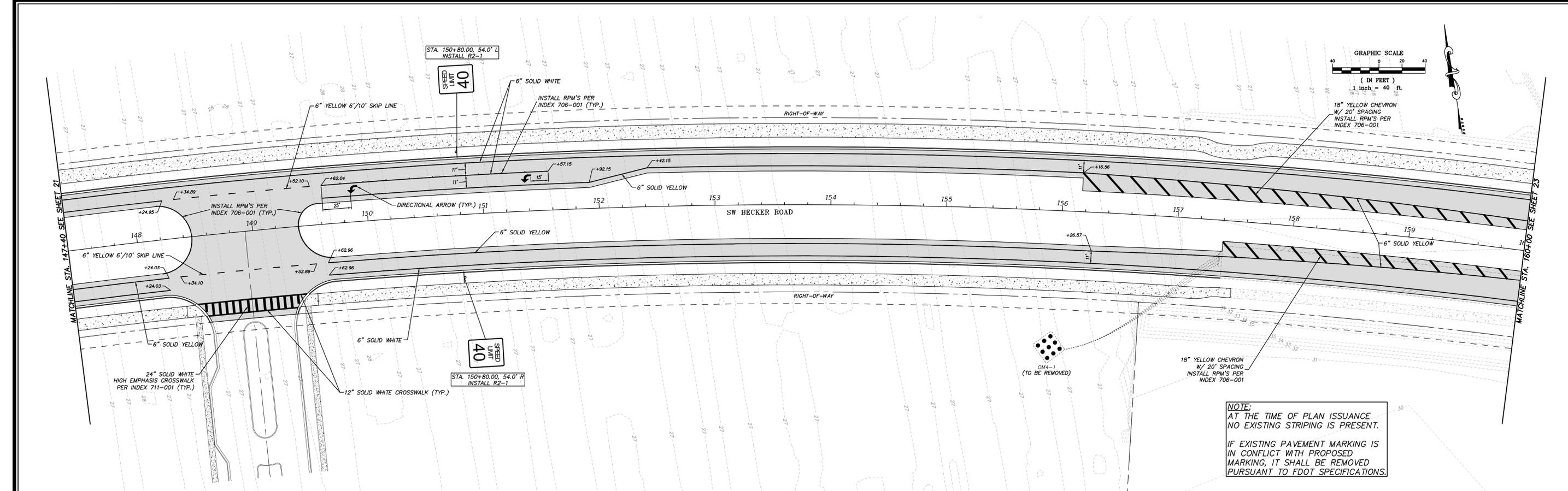
TEMPORARY TRAFFIC CONTROL PLANS

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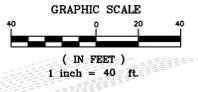
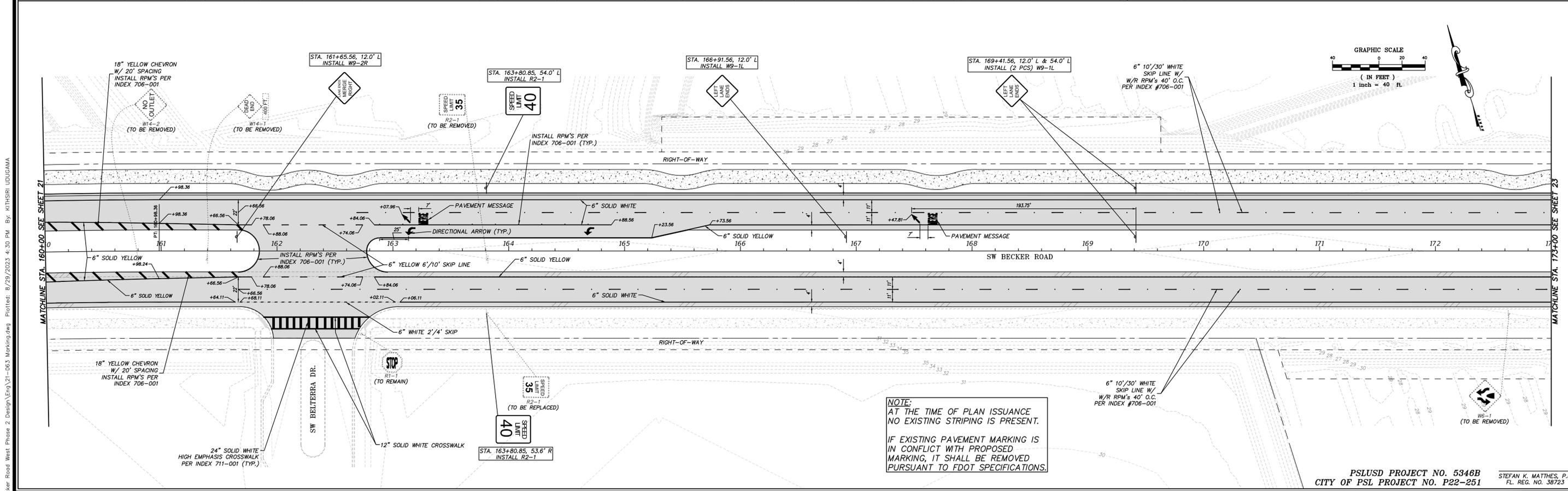
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 CITY OF PSL PROJECT NO. P22-251
 STEFAN K. MATTHEWS, P.E.
 FL. REG. NO. 38723



NOTE:
 AT THE TIME OF PLAN ISSUANCE
 NO EXISTING STRIPING IS PRESENT.
 IF EXISTING PAVEMENT MARKING IS
 IN CONFLICT WITH PROPOSED
 MARKING, IT SHALL BE REMOVED
 PURSUANT TO FDOT SPECIFICATIONS.



NOTE:
 AT THE TIME OF PLAN ISSUANCE
 NO EXISTING STRIPING IS PRESENT.
 IF EXISTING PAVEMENT MARKING IS
 IN CONFLICT WITH PROPOSED
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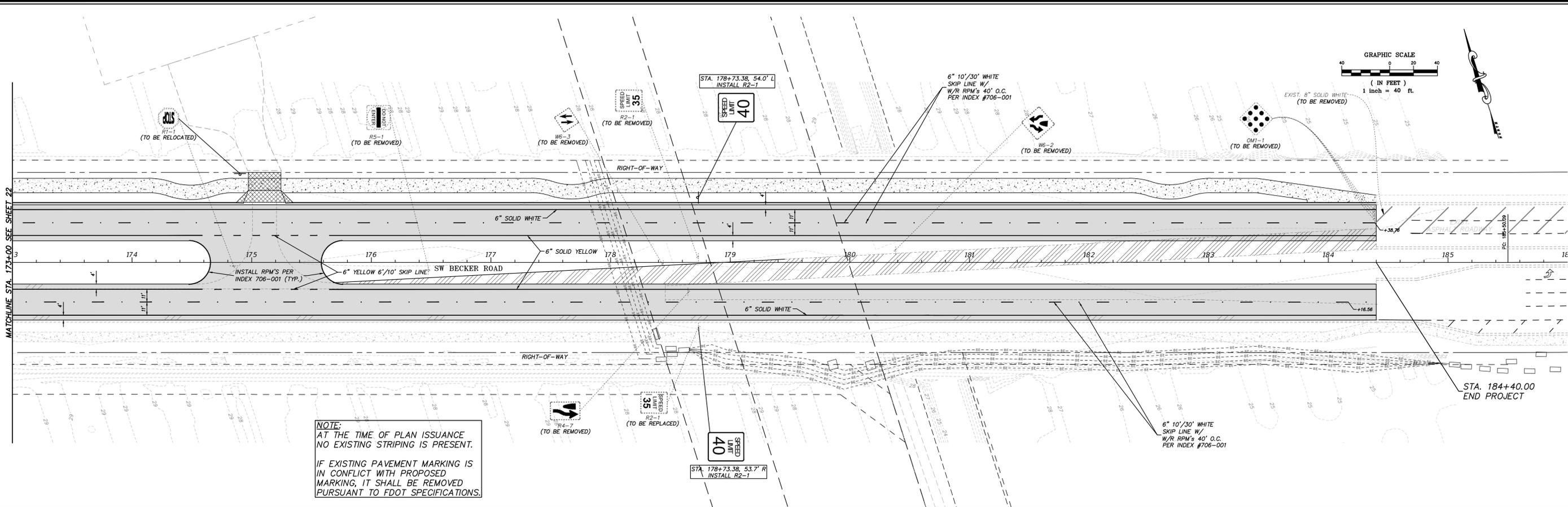
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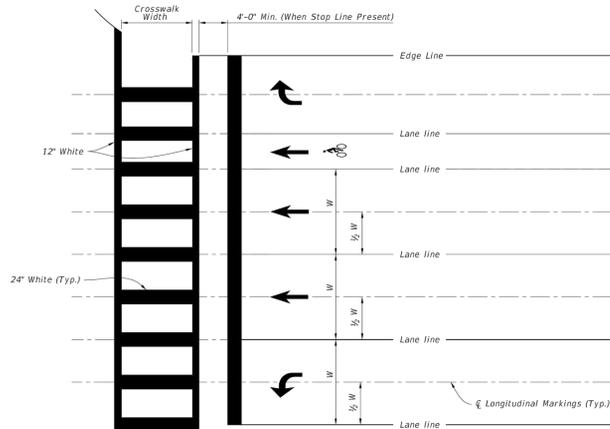
BECKER ROAD WEST PHASE 2

SIGNING AND PAVEMENT MARKING PLAN

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 JOB No. 21-063
 SHEET 22 of 23



NOTE:
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 NO EXISTING STRIPING IS PRESENT.
 IF EXISTING PAVEMENT MARKING IS
 IN CONFLICT WITH PROPOSED
 MARKING, IT SHALL BE REMOVED
 PURSUANT TO FDOT SPECIFICATIONS.



NOTES:
 1. For crosswalk width, exceed width of the adjacent sidewalk, but do not make width less than 6' for intersection crosswalks and 10' for midblock crosswalks. Measure width from the inside of the transverse crosswalk markings.
 2. When the Special Emphasis Crosswalk is not perpendicular to the lane lines, make the longitudinal markings parallel to the lane lines.
 3. Refer to Index 522-002 when Curb Ramps are present.

FDOT INDEX 711-001 SPECIAL EMPHASIS CROSSWALK DETAIL

- GENERAL NOTES**
1. ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), DATED 2009, THE "MANUAL ON STANDARDS HIGHWAY SIGNS", DATED 2004, AND THE "DESIGN STANDARDS" (FLORIDA DEPARTMENT OF TRANSPORTATION), DATED 2021-22.
 2. SIGNS THAT ARE TO BE REMOVED FROM THE PROJECT SHALL BE STOCKPILED SEPARATELY FROM THOSE THAT ARE TO BE RELOCATED.
 3. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAINT.
 4. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES, TRANSMISSION LINES AND UNDERGROUND UTILITIES.
 5. ALL EXISTING PAVEMENT MARKINGS THAT ARE IN CONFLICT WITH THIS PLAN, SHALL BE REMOVED BY HYDROBLASTING.
 6. RELOCATED SIGNS SHALL BE PLACED ON A NEW POST (ROUND POST) AND HARDWARE THAT MEETS CURRENT STANDARDS.
 7. REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE PLACED IN ACCORDANCE WITH FDOT INDEX NO. 706-001.
 8. ALL NEW STOP SIGNS TO INCLUDE TWO ORANGE FLAGS EACH.
 9. VMB'S SHALL BE PLACED ONE WEEK IN ADVANCE OF EACH NEW STOP SIGN AND LEFT IN PLACE TWO WEEKS AFTER INSTALLATION. WORDING ON MESSAGE SHALL CHANGE IN THE BEFORE AND AFTER CONDITION.

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BECKER ROAD WEST PHASE 2
SIGNING AND PAVEMENT MARKING PLAN

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