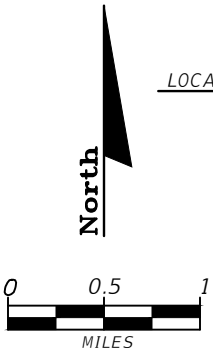
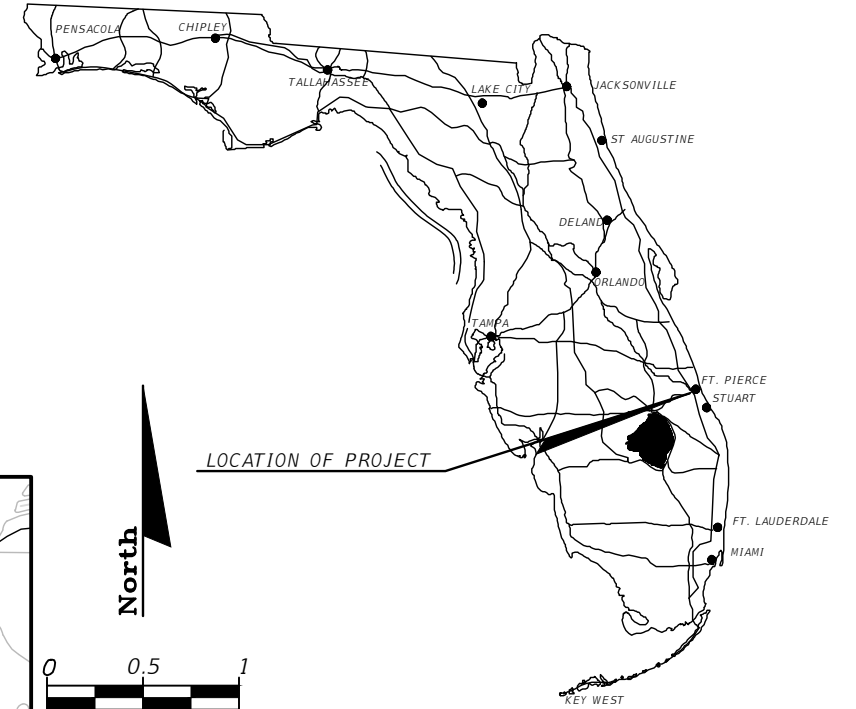


PLANS PREPARED FOR

THE CITY OF FORT PIERCE

CONTRACT PLANS

AVENUE B RECONSTRUCTION
ST LUCIE COUNTY, FLORIDA



LOCATION OF PROJECT

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:



STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

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

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

100% PLAN SET
REVISED MARCH 11, 2022

C&T JOB NO.: 20-121

FISCAL YEAR	SHEET NO.
22	1

COMPONENTS OF CONTRACT PLANS SET

ROADWAY CONSTRUCTION PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

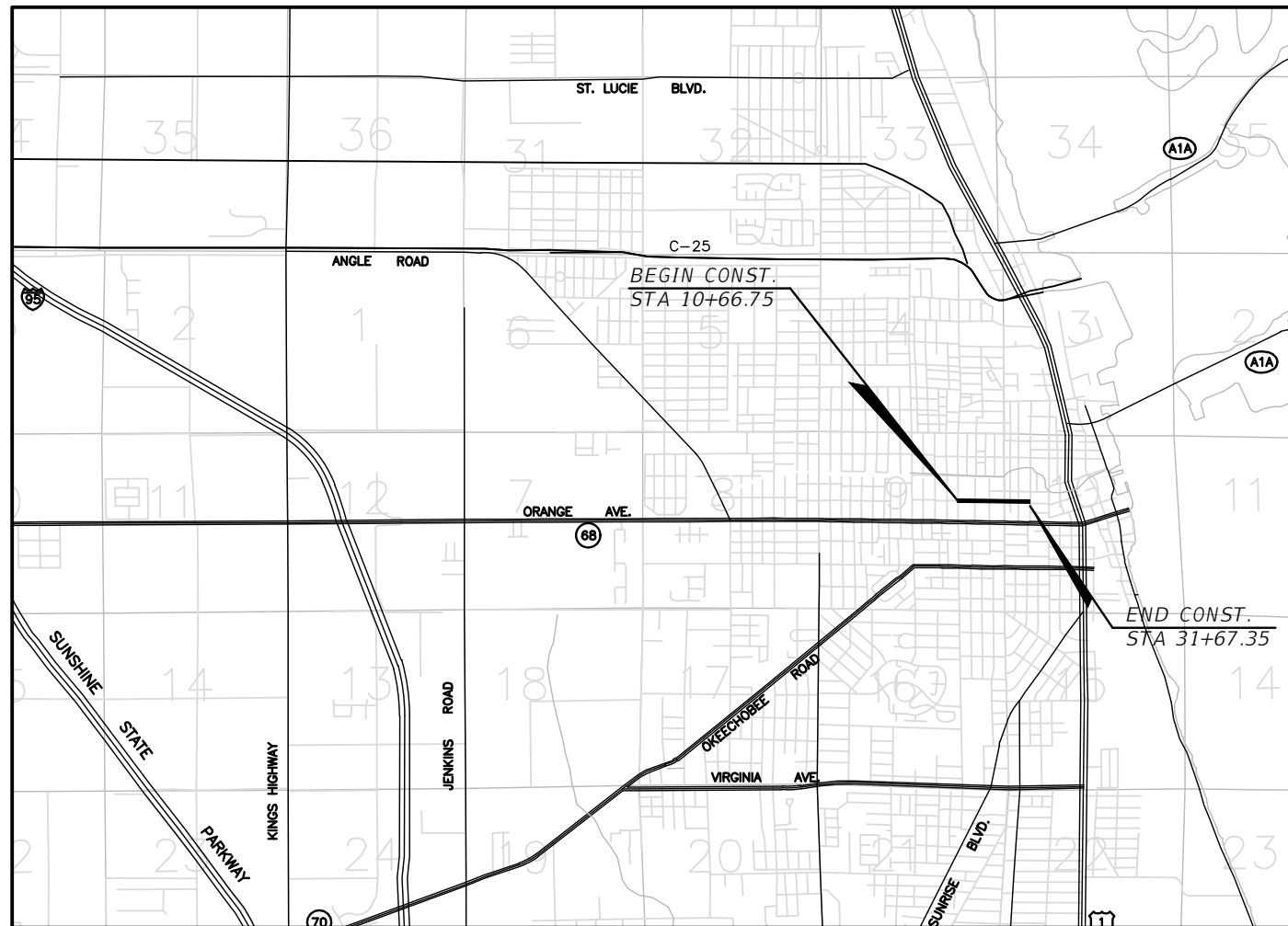
INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
1	COVER AND KEY SHEET
2	GENERAL NOTES
3	SUMMARY OF PAY ITEMS
4	TYPICAL SECTIONS
5-7	TYPICAL DETAILS
8	PROJECT LAYOUT
9-16	ROADWAY PLAN
17-24	ROADWAY PROFILE
25-32	CROSS SECTIONS
33-34	AUGER BORING PROFILES
35-38	EROSION & SEDIMENT CONTROL PLANS
39-40	EROSION & SEDIMENT CONTROL NOTES
41	TRAFFIC CONTROL NOTES
42-45	SIGNING & PAVEMENT MARKING PLANS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2020-2021,
AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION DATED 2020. AS
AMENDED BY CONTRACT DOCUMENTS.

For Design Standards Modifications click on
"Standard Plans For Road and Bridge Construction" at
the following web site:
<http://www.fdot.gov/design/standardplans/Default.shtm>

For the Standard Specifications for Road and Bridge
Construction click on the "January 2021 Standard
Specifications eBook " link at the following web site:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks/>



REVISIONS

LENGTH OF PROJECT		
	LIN. FT.	MILES
UTILITY	0	0
BRIDGES	0	0
NET LENGTH OF PROJ.	2217	.420
EXCEPTIONS	0	0
GROSS LENGTH OF PROJ.	2217	.420

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

PROJECT MANAGER: JOHN R ANDREWS, P.E. CITY ENGINEER

GENERAL NOTES

- 1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE REFERENCING THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
- 2. ALL DRAINAGE INFRASTRUCTURE IS TO REMAIN UNLESS OTHERWISE NOTED.
- 3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- 4. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- 5. 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 SELENA GRIFFETT WITH THE CITY OF FORT PIERCE, WITHOUT DELAY, BY TELEPHONE (772) 467-3782.
- 6. 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.
FPUA WATER/WASTEWATER	LUGEY DAWSON	(772) 466-3428
FPUA ELECTRIC	PAUL LAGUERRE	(772) 466-6757
FPUA GAS	PAUL LAGUERRE	(772) 466-6757
AT&T	LUKE FOLKERTS	(407) 496-6041
COMCAST CABLE	ANTHONY SPRINGSTEEL	(772) 321-3425
FPL	TRACY STERN	(800) 858-9554

- 7. THE CONTRACTOR SHALL FURNISH THE ENGINEER, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE OF NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.
- 8. ALL SYNTHETIC BALES AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND WHEN APPROVED BY THE NPDES INSPECTOR.
- 9. 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.
- 10. WORK HOURS ARE FROM 8:00 AM TO 5:00 PM MONDAY-FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY THE CITY OF FORT PIERCE. THE CONTRACTOR MUST RECEIVE WRITTEN PERMISSION FROM THE CITY AND PROVIDE AN APPROVED MOT PLAN BEFORE ANY LANE CLOSURES OCCUR. ANY PROPOSED LANE CLOSURES MUST BE COORDINATED WITH THE CITY OF FORT PIERCE.

11. ALL CURB RAMPS, DETECTABLE WARNINGS, HANDRAILS, DBI STEEL GRATES, SIDEWALKS, CONNECTIONS TO DRIVEWAYS, RAMP LANDINGS, ETC., ALL ARE TO BE IN COMPLIANCE WITH CURRENT AND FEDERAL ADA STANDARDS. ALSO, ADHERENCE TO ADA GUIDELINES REGARDING WHEELCHAIR ACCESSIBILITY. THE MAXIMUM CROSS SLOPES ON ALL SIDEWALKS IS 2%. MAXIMUM SIDEWALK LONGITUDINAL SLOPE IS 5%.

12. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION. ANY OFF-SITE STORAGE AREA AS REQUIRED BY THE CONTRACTOR WILL REQUIRE THE INDIVIDUAL PROPERTY OWNER'S WRITTEN APPROVAL. A COPY OF THE APPROVAL MUST BE FORWARDED TO THE CITY OF FORT PIERCE.

13. 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.

14. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

15. THE SIDEWALK MUST BE FREE OF OVERHEAD OBSTRUCTIONS PER SECTION 4.4.2 OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).

16. THE CONCRETE SIDEWALK IS TO MEET THE REQUIREMENTS OF SECTION 522 OF THE FDOT STANDARD SPECIFICATIONS.

17. EXISTING MAILBOXES THAT ARE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS ARE TO BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT INDEX 110-200.

18. CONTRACTOR SHALL USE EXTREME CAUTION AND COMPLY WITH ALL APPLICABLE OSHA REGULATIONS WHEN WORKING IN THE VICINITY OF OVERHEAD AND UNDERGROUND UTILITY LINES.

19. 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/REMEDICATION 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.

20. 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 SELENA GRIFFETT, PROJECT MANAGER FOR THE CITY OF FORT PIERCE. THE CONTRACTOR SHALL PROVIDE SELENA GRIFFETT 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 SELENA GRIFFETT 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

21. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING OR STOCKPILING AREAS WITH SELENA GRIFFETT, THE CITY OF FORT PIERCE PROJECT MANAGER, (772) 467-3782.

22. WHEN WORK IS TO OCCUR WITHIN THE CROWN DRIPLINE PROTECTION ZONE OF EXISTING TREES, THE TREES MUST BE PROTECTED IN ACCORDANCE WITH FDOT INDEX #542.

23. ALL CONCRETE STRUCTURES SHALL BE CLASS II CONCRETE UNLESS OTHERWISE NOTED ON THE PLANS.

24. ALL AREAS DESIGNATED FOR PAVEMENT REMOVAL SHALL BE SAW-CUT AT THE LIMITS OF REMOVAL ADJACENT TO EXISTING PAVEMENT WHICH IS TO REMAIN.

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

REVISIONS						C&T JOB NO. 20-121		 CULPEPPER & TERPENING INC <small>2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981 PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286</small>	CITY OF FORT PIERCE		GENERAL NOTES	SHEET NO. 2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY SKM	DRAWN BY ZJM 9-11-20		PROJECT NAME	FINANCIAL PROJECT ID		
						CHECKED BY	CHECKED BY		AVENUE B RECONSTRUCTION	-		

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

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ITEM NO.	DESCRIPTION	UNIT	QUANTITY
101-1A	MOBILIZATION/PERMITS/GENERAL CONDITIONS/BONDS	LS	1
101-1B	PRE-CONSTRUCTION VIDEO	LS	1
101-1C	RECORD DRAWINGS/CONSTRUCTION STAKING	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	3,215
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1
104-18	INLET PROTECTION SYSTEM	EA	16
110-1	CLEARING, GRUBBING, AND DEMOLITION	AC	0.75
110-7A	MAILBOX, ADJUST/RELOCATION	EA	10
120-1	REGULAR EXCAVATION	CY	171
120-6	EMBANKMENT	CY	545
160-4	TYPE B STABILIZATION (12" THICK)	SY	6,770
285-709	OPTIONAL BASE, BASE GROUP 09 (LBR 100)	SY	5,516
327-70-5	MILLING EXISTING ASPHALT PAVT, 1" AVG DEPTH	SY	50
334-1-13A	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-9.5) (1" THICK)	TON	303.6
334-1-13B	SUPERPAVE ASPHALTIC CONC. TRAFFIC C (SP-12.5) (2" THICK)	TON	607.2
425-1-351	INLETS, CURB, <10'	EA	9
425-1-452	INLETS, CURB, J BOTTOM, (10' x 5'), <10'	EA	3
425-1-345	INLETS, CURB, TYPE P-4, MODIFY (REPLACE TOP)	EA	2
430-174-115	PIPE CULVERT, REINFORCED CONCRETE PIPE, ROUND, 15"	LF	362
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	4,100
520-3	CONCRETE VALLEY GUTTER	LF	140
522-1	CONCRETE SIDEWALK/PADS , 4" THICK	SY	2,447
522-2	CONCRETE SIDEWALK/PADS , 6" THICK	SY	355
527-2	ADA CURB RAMP W/ DETECTABLE WARNING (COMPLETE)	SF	336
570-1-2	PERFORMANCE TURF, SOD	SY	1,676
580-6	ROOT BARRIER	LF	16
700-1-11A	SINGLE POST SIGN, F&I GM, < 12 SF (R1-1 STOP)	EA	10
700-1-11B	SINGLE POST SIGN, F&I GM, < 12 SF (SPEED LIMIT)	EA	2
706-1-1	RETRO-REFLECTIVE/RAISED PAVEMENT MARKERS	EA	60
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	921
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	92
711-11-201	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 6"	LF	480
711-11-231	THERMOPLASTIC, STANDARD, YELLOW, 6" 10-30 SKIP	GM	0.33
1080-21106A	UTILITY ADJUSTMENTS - WATER VALVE	EA	9
1080-21106B	UTILITY ADJUSTMENTS - GAS VALVE	EA	1
1080-215	UTILITY ADJUSTMENTS - WATER METER	EA	2
1080-3	UTILITY ADJUSTMENTS - SANITARY MANHOLE RIMS	EA	6
1080-4	UTILITY ADJUSTMENTS - SANITARY CLEANOUTS	EA	6
1644-700	FIRE HYDRANT - ADJUST	EA	2

PAY ITEM NOTES

- 102-1 INCLUDES ALL ITEMS FOR MAINTENANCE OF TRAFFIC WHICH ARE NOT INCLUDED FOR PAYMENT UNDER SEPARATE ITEMS. INCLUDES PEDESTRIAN MAINTENANCE OF TRAFFIC IN ACCORDANCE WITH THE SPECIFICATIONS. INCLUDES TEMPORARY PAVEMENT MARKINGS & SIGNAGE, AND RAISED PAVEMENT MARKERS.
- 110-7A INCLUDES MAINTENANCE AND RELOCATION OF MAILBOXES.
- 104-10-3, 104-18, 104-15 IS ESTIMATED FOR PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION AND ARE TO BE USED AT LOCATIONS DESIGNATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER. INCLUDES FLOATING TURBIDITY BARRIER, SILT FENCE TYPE III.
- 110-1 INCLUDES REMOVAL AND DISPOSAL OF EXISTING DRAINAGE STRUCTURES & PIPES; CULVERTS; SIGNS; FENCE; CURBS; CURB AND GUTTER; DRIVEWAYS; SLABS; FOOTINGS; GATES; POLES; DEBRIS; TRAFFIC SEPARATOR; SIDEWALKS; ASPHALT; BASE; CONCRETE; GUARDRAIL; F.D.P.'S; TEMPORARY CONSTRUCTION DETOURS; AND ANY OTHER ITEMS TO BE REMOVED THAT ARE NOT SPECIFICALLY COVERED UNDER ANOTHER SEPARATE PAY ITEM. INCLUDES ALL SAW-CUTTING. INCLUDES TREE TRIMMING. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN, UNLESS OTHERWISE NOTED.
- 120-1 INCLUDES ALL EARTHWORK EMBANKMENT FOR ROADWAY, DRIVEWAY, CULVERT STRUCTURE, & INCLUDES FINAL GRADING SHAPING AS NECESSARY FOR FINAL RESTORATION.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



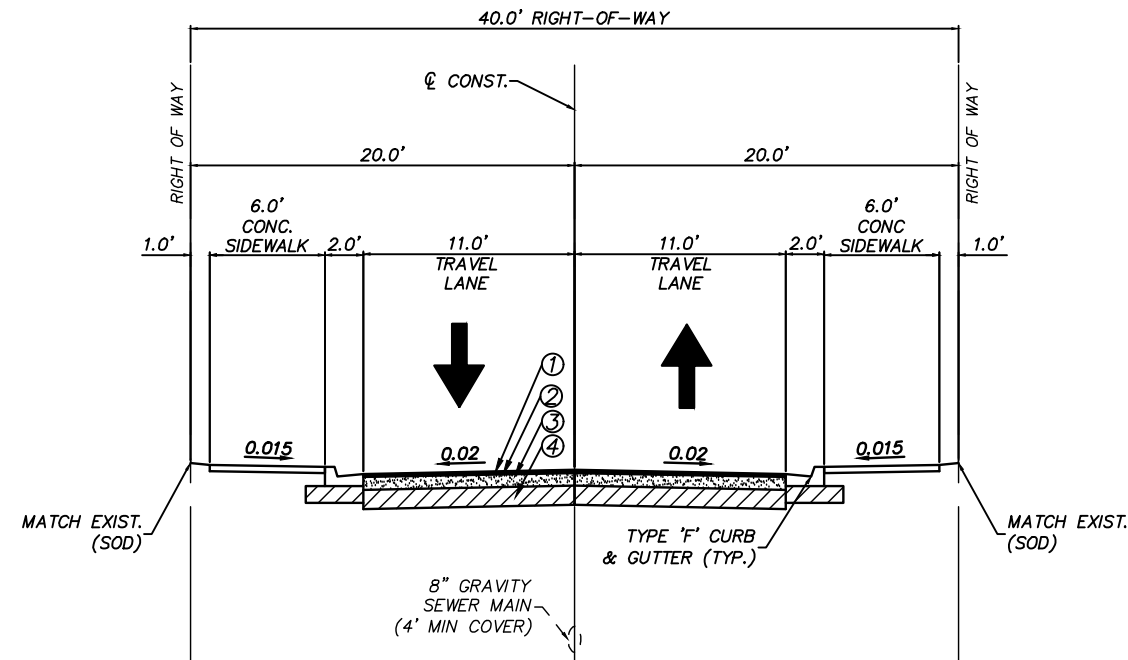
CULPEPPER & TERPENING INC
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PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com
STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

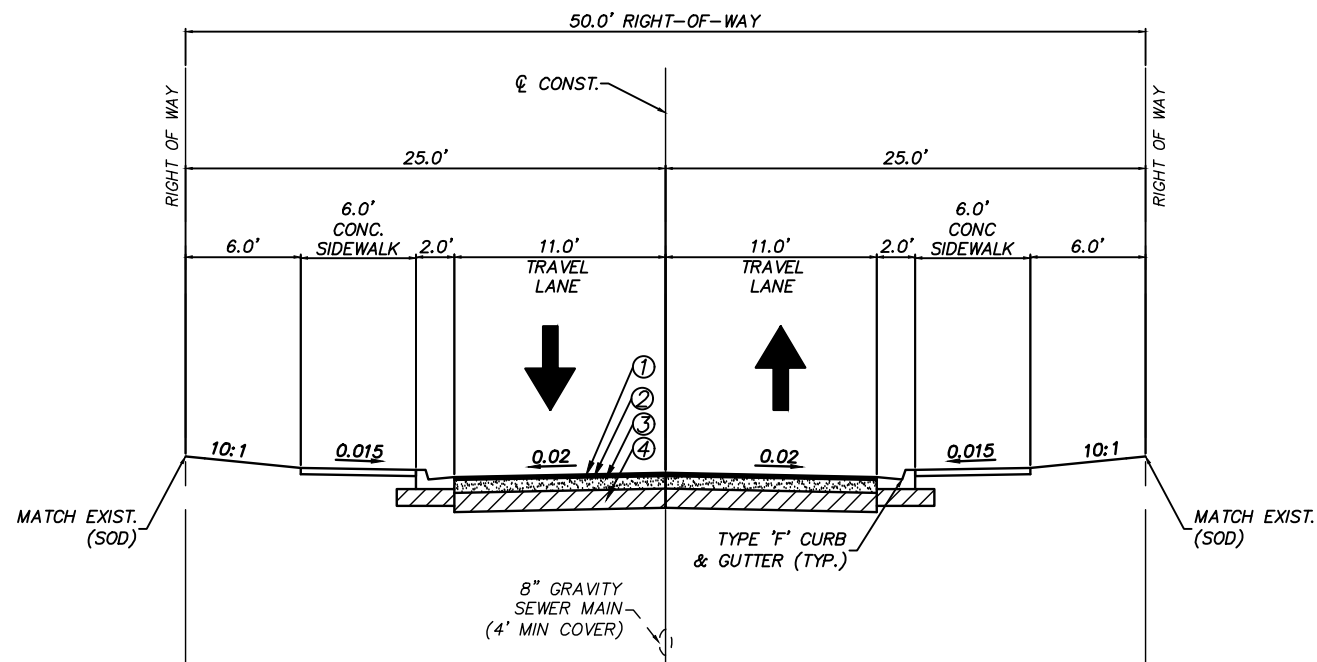
SUMMARY OF PAY ITEMS	
3	

SHEET NO.
3

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TYPICAL SECTION 1
STA 10+66.75 TO STA 23+83.19
DESIGN SPEED = 35 MPH
N 13TH ST TO N 10TH ST



TYPICAL SECTION 2
STA 24+47.27 TO STA 31+67.35
DESIGN SPEED = 35 MPH
N 10TH ST TO N 8TH ST

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.
3. MAXIMUM SIDEWALK SLOPE IS 2.0%

ASPHALT PAVEMENT (SN=4.08)

- ① TYPE SP-9.5 TOP COURSE (1" THICK) (SN=.44)
- ② TYPE SP-12.5 STRUCTURAL COURSE (2" THICK) (SN=.88)
- ③ OPTIONAL BASE GROUP 9 (SN=1.8)
- ④ 12" TYPE 'B' STABILIZATION (SN=.96)

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
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CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

TYPICAL SECITONS	
4	

SHEET NO.
4

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General Construction Notes:

1. Concrete strength to be 2500 P.S.I. at 28 days.
2. Tooled dummy contraction joints every 5' (Type 'B' Joints)
3. Expansion joints w/premolded filler at 100' o/c (Type 'C' Joints)
4. Subbase to be 98% Density F.B.V. 75 P.S.I.
5. The concrete shall be given a broom finish and the edges of the sidewalk shall be finished with an edging tool having a radius of 1/2 inch

TYPE 'A' TYPE 'B' TYPE 'C'

'A' At P.C. & P.T. of curves and at junction of existing and new sidewalks.
 'B' 5' center to center on new sidewalks and 10' center to center on new curb and gutter
 'C' Where new sidewalk abuts concrete curbs, driveway and similar structures.

**CITY OF FORT PIERCE • DEPARTMENT OF ENGINEERING
 TECHNICAL SPECIFICATIONS AND DETAILS**

	TYPICAL 4" SIDEWALK DETAIL	REVISIONS
		SHEET No.
		SW2

SCALE: N.T.S. | ISSUED AUGUST 1998

General Construction Notes:

1. Concrete strength to be 2500 P.S.I. at 28 days.
2. Tooled dummy contraction joints every 5' (Type 'B' Joints)
3. Expansion joints w/premolded filler at 100' o/c (Type 'C' Joints)
4. Subbase to be 98% Density F.B.V. 75 P.S.I.
5. The concrete shall be given a broom finish and the edges of the sidewalk shall be finished with an edging tool having a radius of 1/2 inch

TYPE 'A' TYPE 'B' TYPE 'C'

'A' At P.C. & P.T. of curves and at junction of existing and new sidewalks.
 'B' 5' center to center on new sidewalks and 10' center to center on new curb and gutter
 'C' Where new sidewalk abuts concrete curbs, driveway and similar structures.

**CITY OF FORT PIERCE • DEPARTMENT OF ENGINEERING
 TECHNICAL SPECIFICATIONS AND DETAILS**

	TYPICAL 6" SIDEWALK DETAIL	REVISIONS
		SHEET No.
		SW3

SCALE: N.T.S. | ISSUED AUGUST 1998

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

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 CHECKED BY CHECKED BY
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

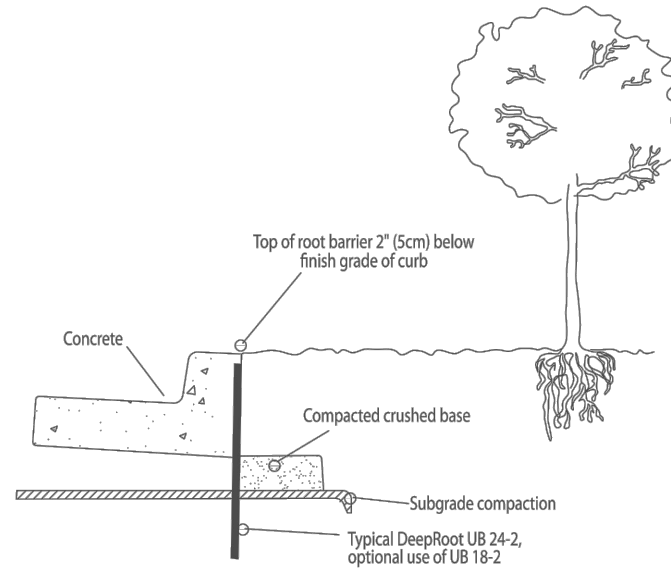
TYPICAL DETAILS	
SHEET NO. 6	

Linear Application of DeepRoot Tree Root Barriers at Time of Installing Concrete Sidewalks and Curbs

TYPICAL SECTION OF CURB AND GUTTER WITH DEEPROOT TREE ROOT BARRIER INSET INTO CONCRETE. BARRIER INSTALLED IN A TRENCH IN SUBGRADE WHICH IS THEN COMPACTED. BARRIER IS SET SO THAT TOP EDGE WILL BE 2" (5CM) BELOW FINISH GRADE OF CURB, AND SET FLUSH WITH EDGE OF CURB. BARRIER RIBS FACE TOWARD TREE ROOTS.

INSTALLATION SEQUENCE:

1. Prepare base and subgrade
2. Trench to appropriate depth for installation of root barrier so that top of barrier is 2" (5cm) below finish grade of top of curb.
3. Place root barrier in trench, vertical ribs must face toward tree roots.
4. Backfill and compact to requirements.
5. Place form material against barrier (It may be nailed from the outside of the form)

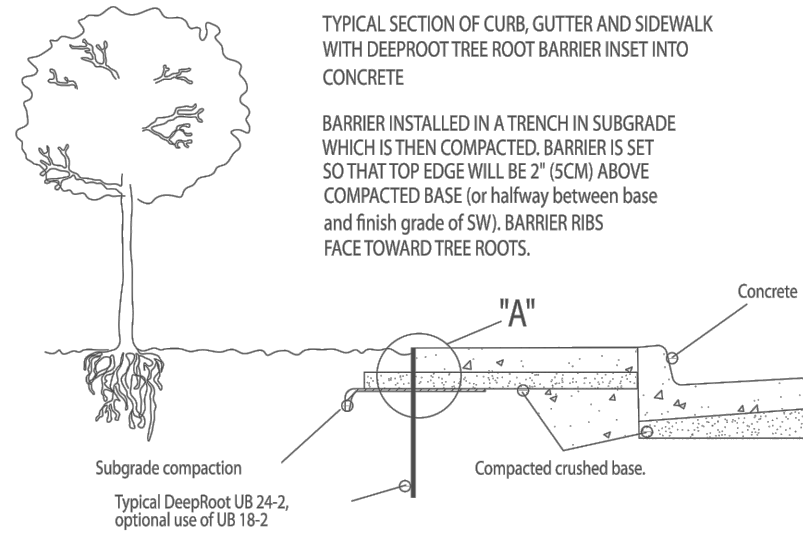


TYPICAL SECTION OF CURB, GUTTER AND SIDEWALK WITH DEEPROOT TREE ROOT BARRIER INSET INTO CONCRETE

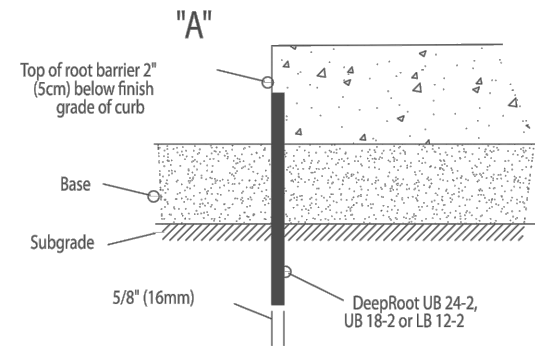
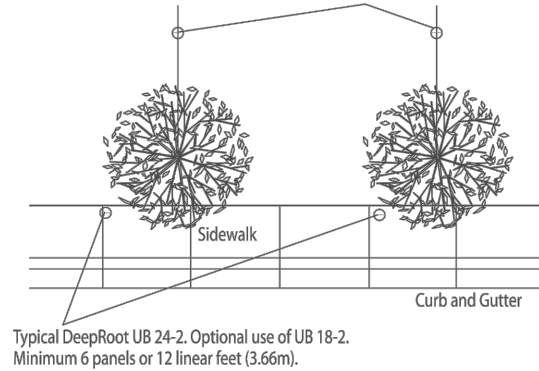
BARRIER INSTALLED IN A TRENCH IN SUBGRADE WHICH IS THEN COMPACTED. BARRIER IS SET SO THAT TOP EDGE WILL BE 2" (5CM) ABOVE COMPACTED BASE (or halfway between base and finish grade of SW). BARRIER RIBS FACE TOWARD TREE ROOTS.

INSTALLATION SEQUENCE:

1. Prepare base and subgrade
2. Trench to appropriate depth for installation of root barrier so that top of barrier is 2" (5cm) below finish grade of top of sidewalk (or halfway between top of compacted base and finish grade of SW)
3. Place root barrier in trench, vertical ribs must face toward tree roots.
4. Backfill and compact to requirements.
5. Place form material against barrier (It may be nailed from the outside of the form)



IMPORTANT NOTE: Tree location must align with "as-built" center of barrier.



ROOT BARRIER DETAILS

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

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

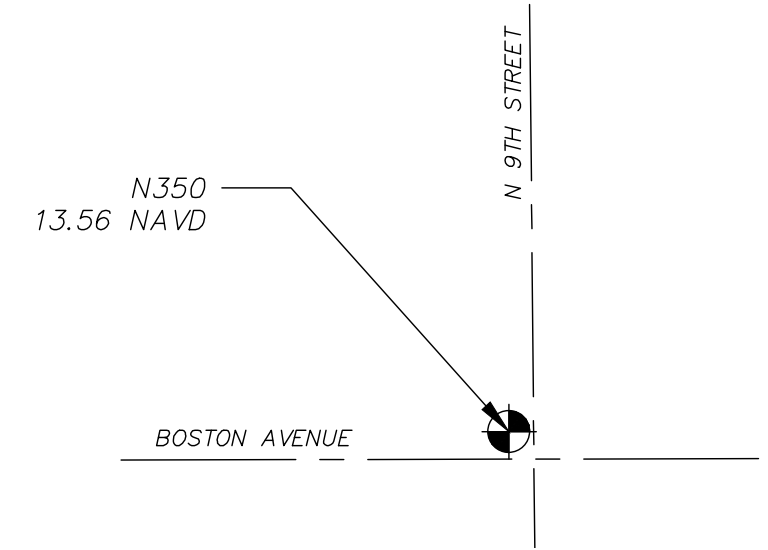
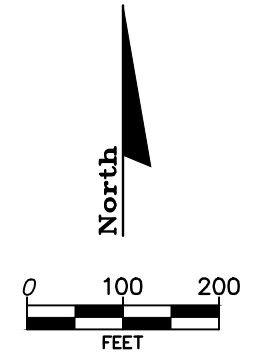
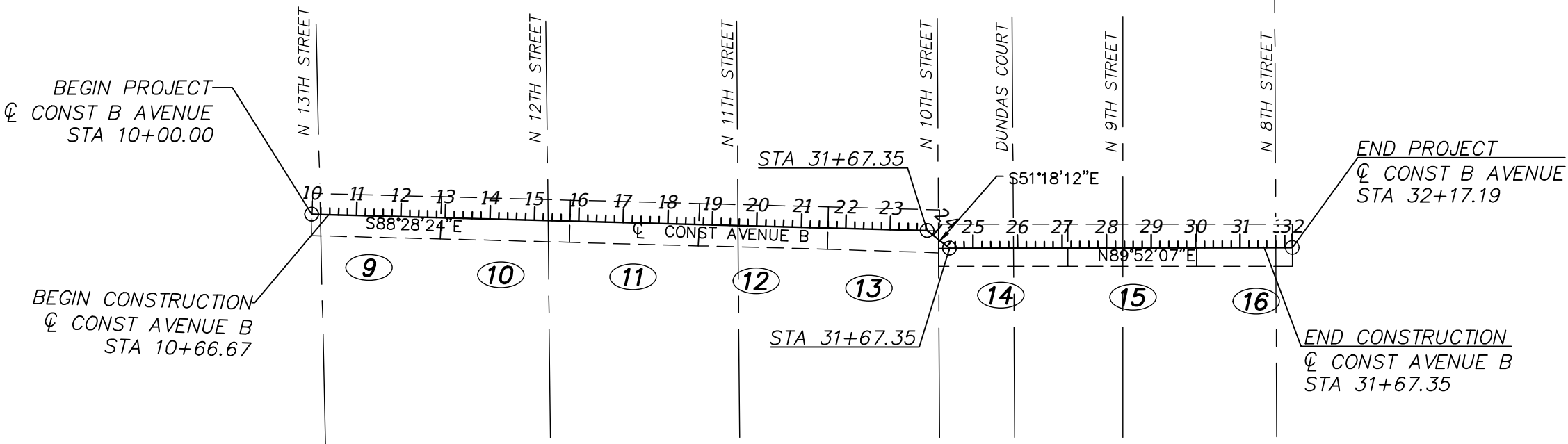
C&T JOB NO. 20-121
DESIGNED BY SKM
DRAWN BY ZJM 9-14-20
CHECKED BY
CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723

CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

TYPICAL DETAILS	
7	

SHEET NO.
7

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NOTE:
THE BENCHMARK USED FOR THIS
PROJECT IS NGS DESIGNATION N350.

LEGEND

- # SHEET NO. #
- BENCHMARK

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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DESIGNED BY SKM	DRAWN BY ZJM 9-14-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

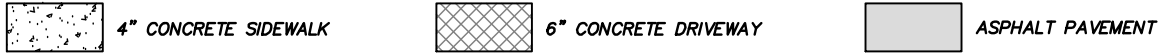
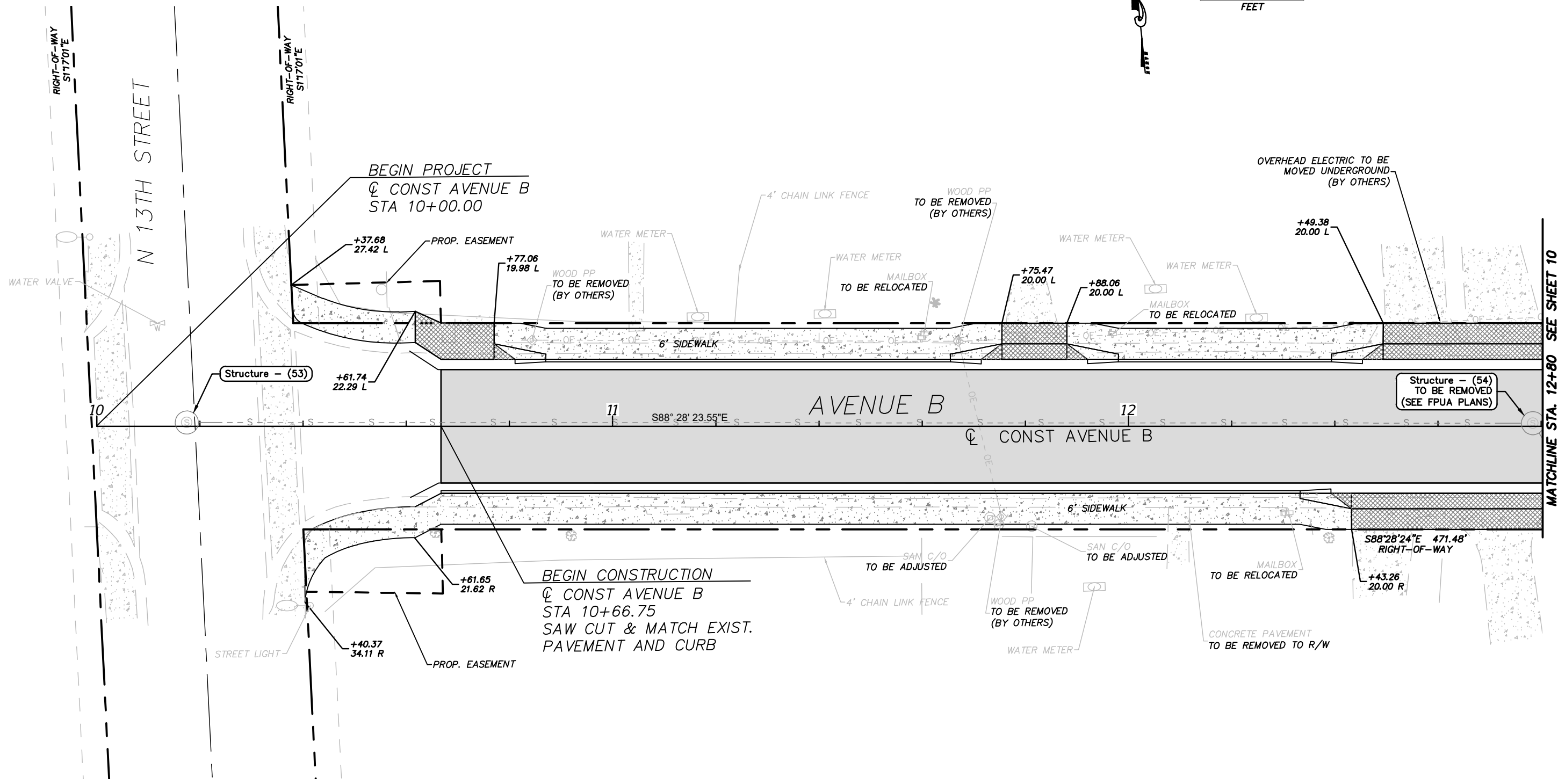
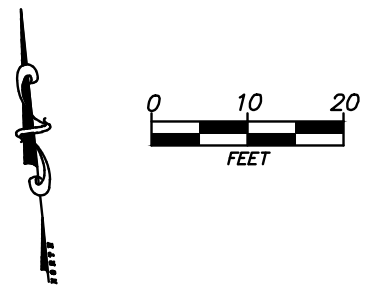
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

PROJECT LAYOUT

SHEET NO. 8

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UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121
 DESIGNED BY SKM DRAWN BY ZJM 9-14-20
 CHECKED BY CHECKED BY
 ENGINEER OF RECORD:
 STEFAN K. MATTHES, P.E. NO. 38723

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PLAN

SHEET NO.
9

MATCHLINE STA. 12+80 SEE SHEET 10

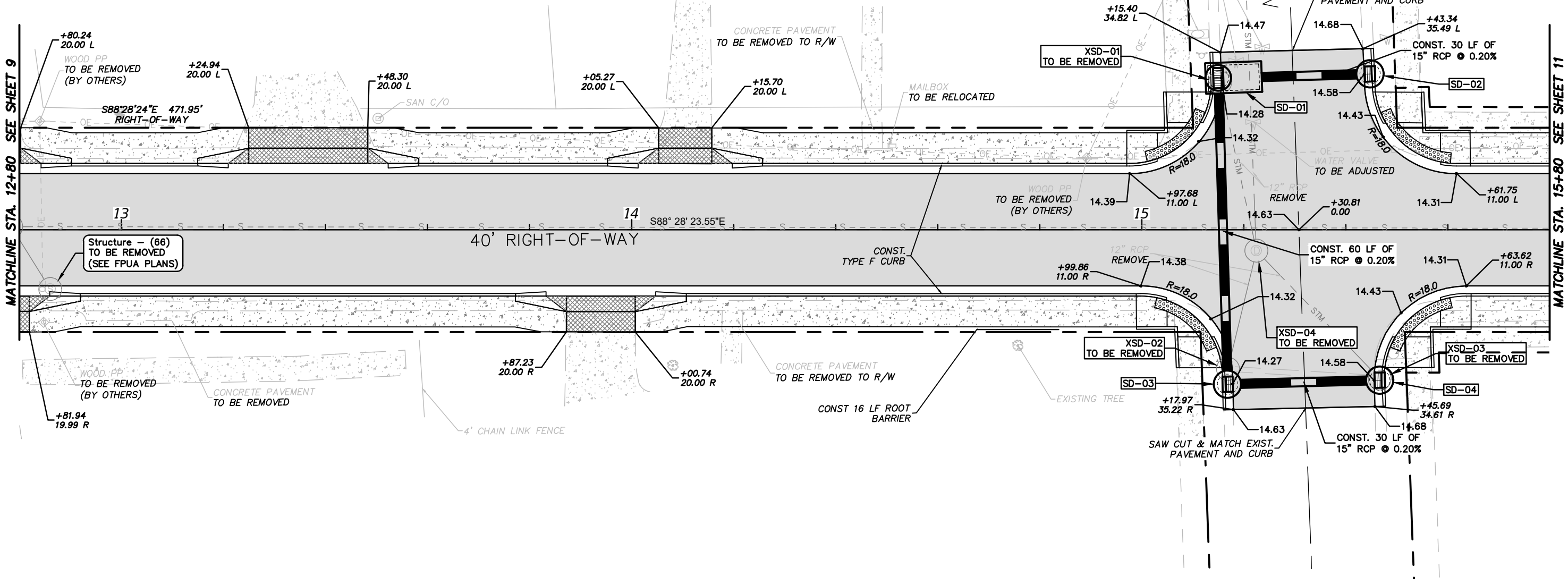
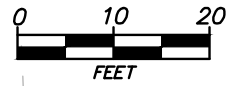
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SD-01
 STA. 15+15.00 (29.74 L)
 CONST. CURB INLET
 GRATE EL. 14.28
 FL 9.75 (N) CONNECT TO EXIST 15" RCP
 FL 10.93 (S)
 FL 11.18 (E)

SD-02
 STA. 15+44.72 (30.56 L)
 CONST. CURB INLET
 GRATE EL. 14.58
 FL 11.24 (W)

SD-03
 STA. 15+16.82 (30.25 R)
 CONST. CURB INLET
 GRATE EL. 14.27
 FL 11.05 (E)
 FL 11.05 (N)

SD-04
 STA. 15+46.65 (29.45 R)
 CONST. CURB INLET
 GRATE EL. 14.58
 FL 11.11 (W)



4" CONCRETE SIDEWALK
 6" CONCRETE DRIVEWAY
 ASPHALT PAVEMENT

UTILITIES NOTE:
 REFER TO FPUA PLANS FOR THE LOCATION
 OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

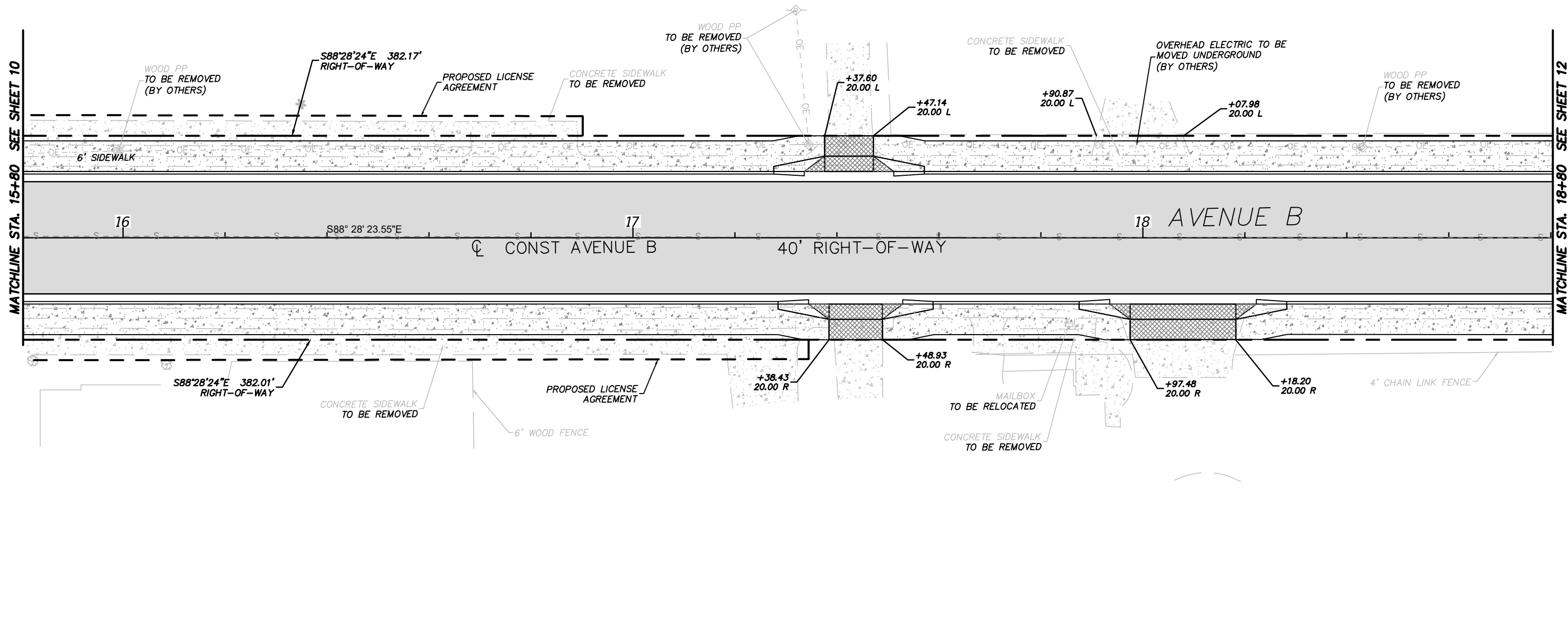
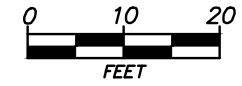
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 DESIGNED BY SKM
 DRAWN BY ZJM 9-14-20
 CHECKED BY
 ENGINEER OF RECORD:
 STEFAN K. MATTHES, P.E. NO. 38723



CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PLAN

SHEET NO.
 10



- 4" CONCRETE SIDEWALK
- 6" CONCRETE DRIVEWAY
- ASPHALT PAVEMENT

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

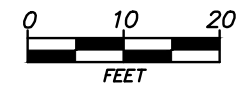
ROADWAY PLAN

SHEET NO.
11

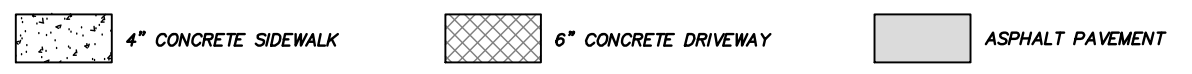
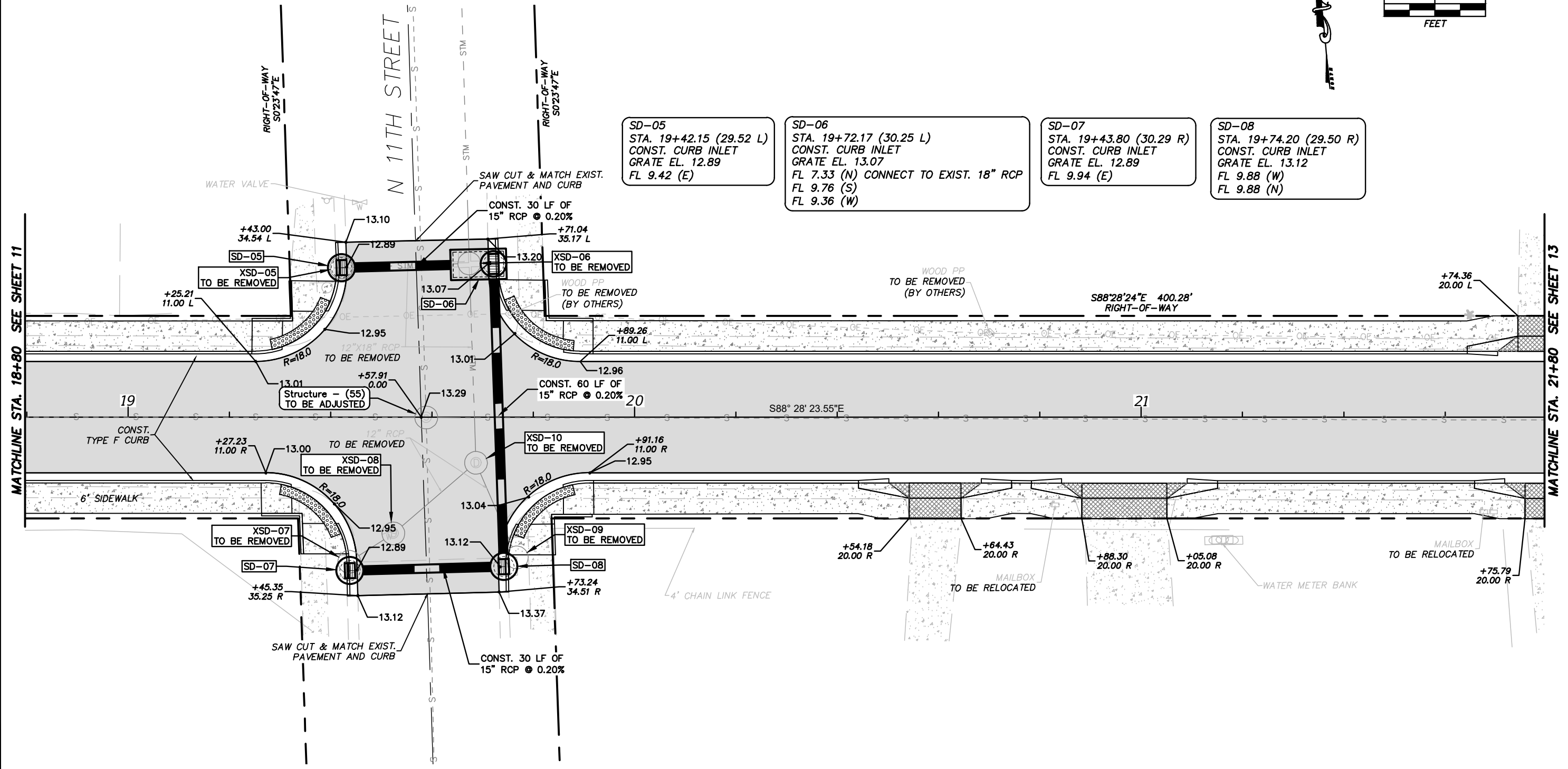
P:\Proj\2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHSIRI UDUGAMA

MATCHLINE STA. 15+80 SEE SHEET 10

MATCHLINE STA. 18+80 SEE SHEET 12



- SD-05
STA. 19+42.15 (29.52 L)
CONST. CURB INLET
GRATE EL. 12.89
FL 9.42 (E)
- SD-06
STA. 19+72.17 (30.25 L)
CONST. CURB INLET
GRATE EL. 13.07
FL 7.33 (N) CONNECT TO EXIST. 18" RCP
FL 9.76 (S)
FL 9.36 (W)
- SD-07
STA. 19+43.80 (30.29 R)
CONST. CURB INLET
GRATE EL. 12.89
FL 9.94 (E)
- SD-08
STA. 19+74.20 (29.50 R)
CONST. CURB INLET
GRATE EL. 13.12
FL 9.88 (W)
FL 9.88 (N)



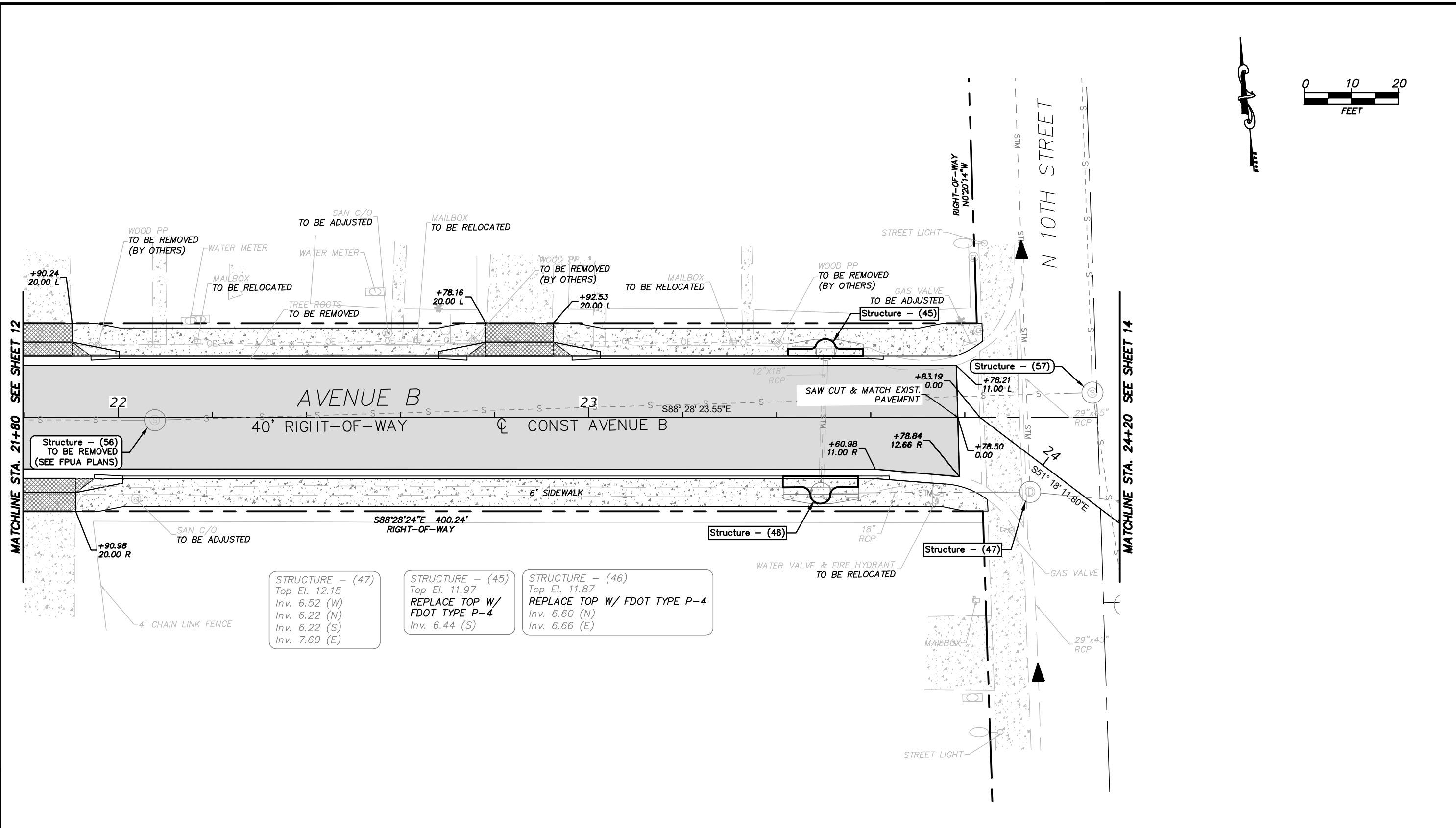
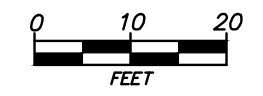
UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

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

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REVISIONS						C&T JOB NO. 20-121		CITY OF FORT PIERCE		ROADWAY PLAN	SHEET NO. 12
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY SKM	DRAWN BY ZJM 9-14-20	PROJECT NAME AVENUE B RECONSTRUCTION	FINANCIAL PROJECT ID -----		

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- STRUCTURE - (47)
Top El. 12.15
Inv. 6.52 (W)
Inv. 6.22 (N)
Inv. 6.22 (S)
Inv. 7.60 (E)
- STRUCTURE - (45)
Top El. 11.97
REPLACE TOP W/
FDOT TYPE P-4
Inv. 6.44 (S)
- STRUCTURE - (46)
Top El. 11.87
REPLACE TOP W/ FDOT TYPE P-4
Inv. 6.60 (N)
Inv. 6.66 (E)

- 4" CONCRETE SIDEWALK
- 6" CONCRETE DRIVEWAY
- ASPHALT PAVEMENT

UTILITIES NOTE:
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OF GAS AND POTABLE WATER FACILITIES.

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

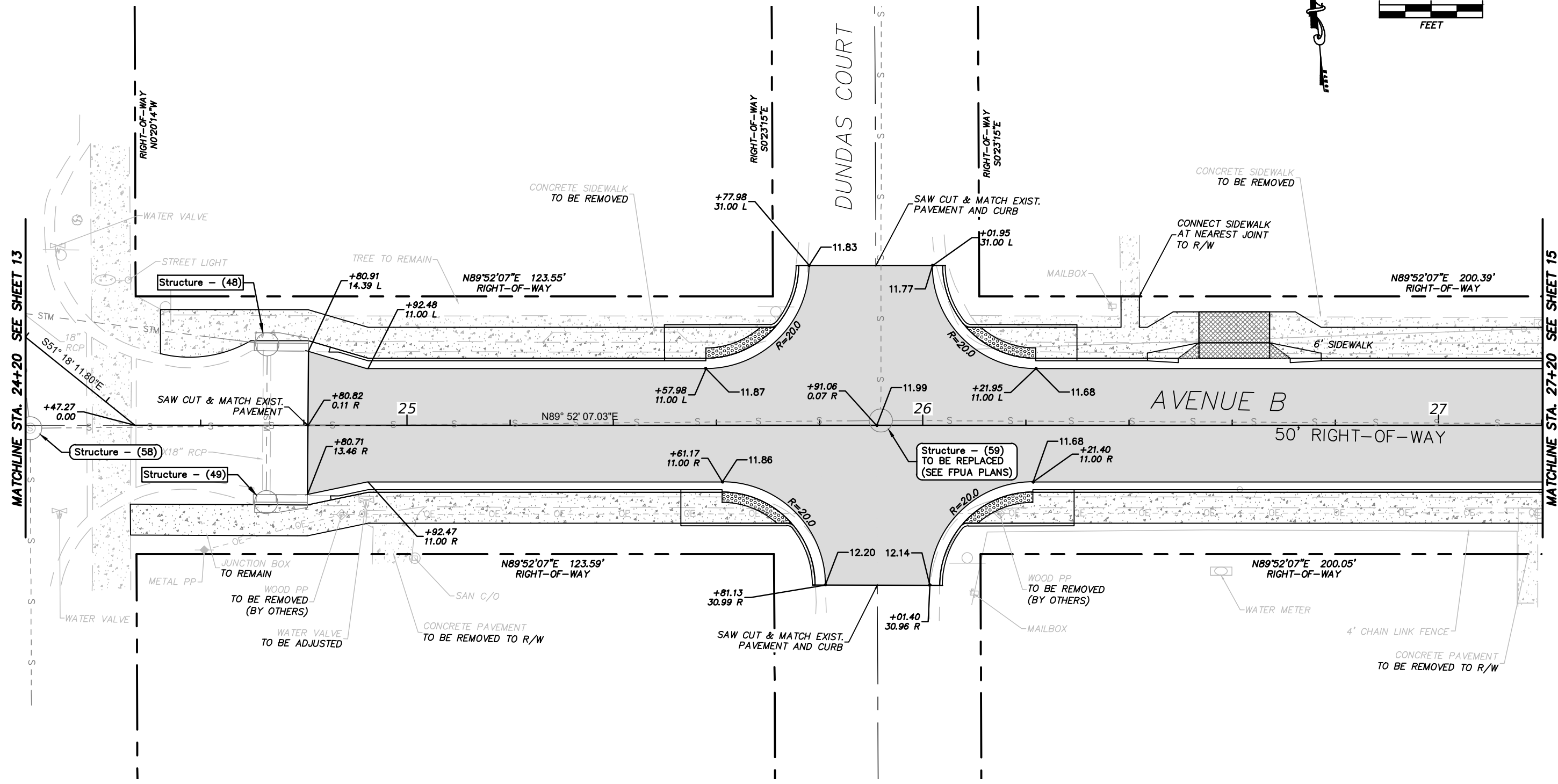
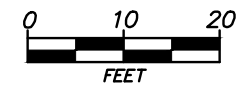
C&T JOB NO. 20-121	
DESIGNED BY	DRAWN BY
SKM	ZJM 9-14-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD:	
STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PLAN	
SHEET NO. 13	

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4" CONCRETE SIDEWALK
 6" CONCRETE DRIVEWAY
 ASPHALT PAVEMENT

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

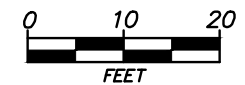
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DESIGNED BY SKM	DRAWN BY ZJM 9-14-20
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PLAN

SHEET NO.
14

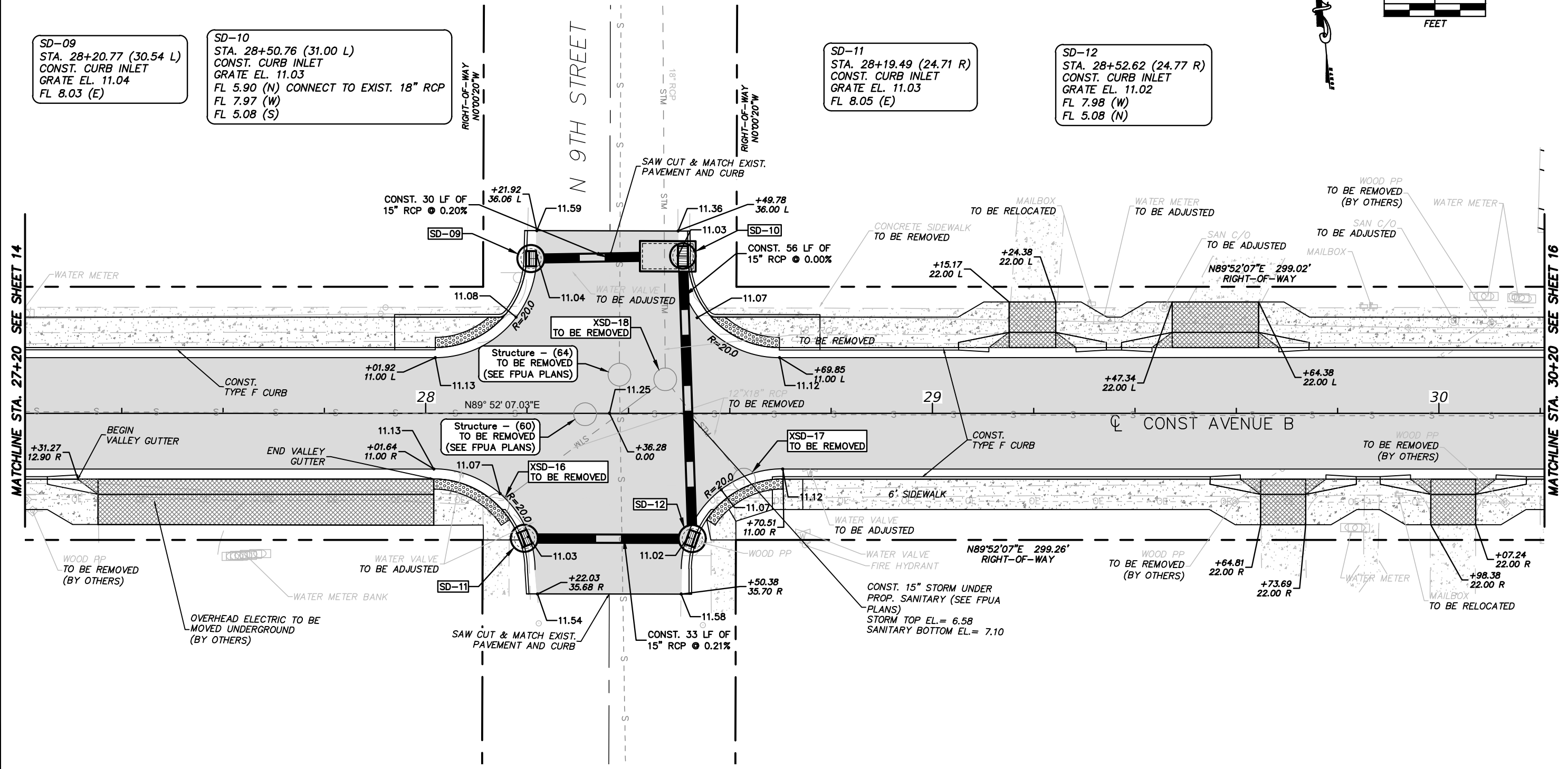


SD-09
STA. 28+20.77 (30.54 L)
CONST. CURB INLET
GRATE EL. 11.04
FL 8.03 (E)

SD-10
STA. 28+50.76 (31.00 L)
CONST. CURB INLET
GRATE EL. 11.03
FL 5.90 (N) CONNECT TO EXIST. 18" RCP
FL 7.97 (W)
FL 5.08 (S)

SD-11
STA. 28+19.49 (24.71 R)
CONST. CURB INLET
GRATE EL. 11.03
FL 8.05 (E)

SD-12
STA. 28+52.62 (24.77 R)
CONST. CURB INLET
GRATE EL. 11.02
FL 7.98 (W)
FL 5.08 (N)



4" CONCRETE SIDEWALK
 6" CONCRETE DRIVEWAY
 ASPHALT PAVEMENT

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
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STEFAN K. MATTHES, P.E.
FL. REG. NO. 38723

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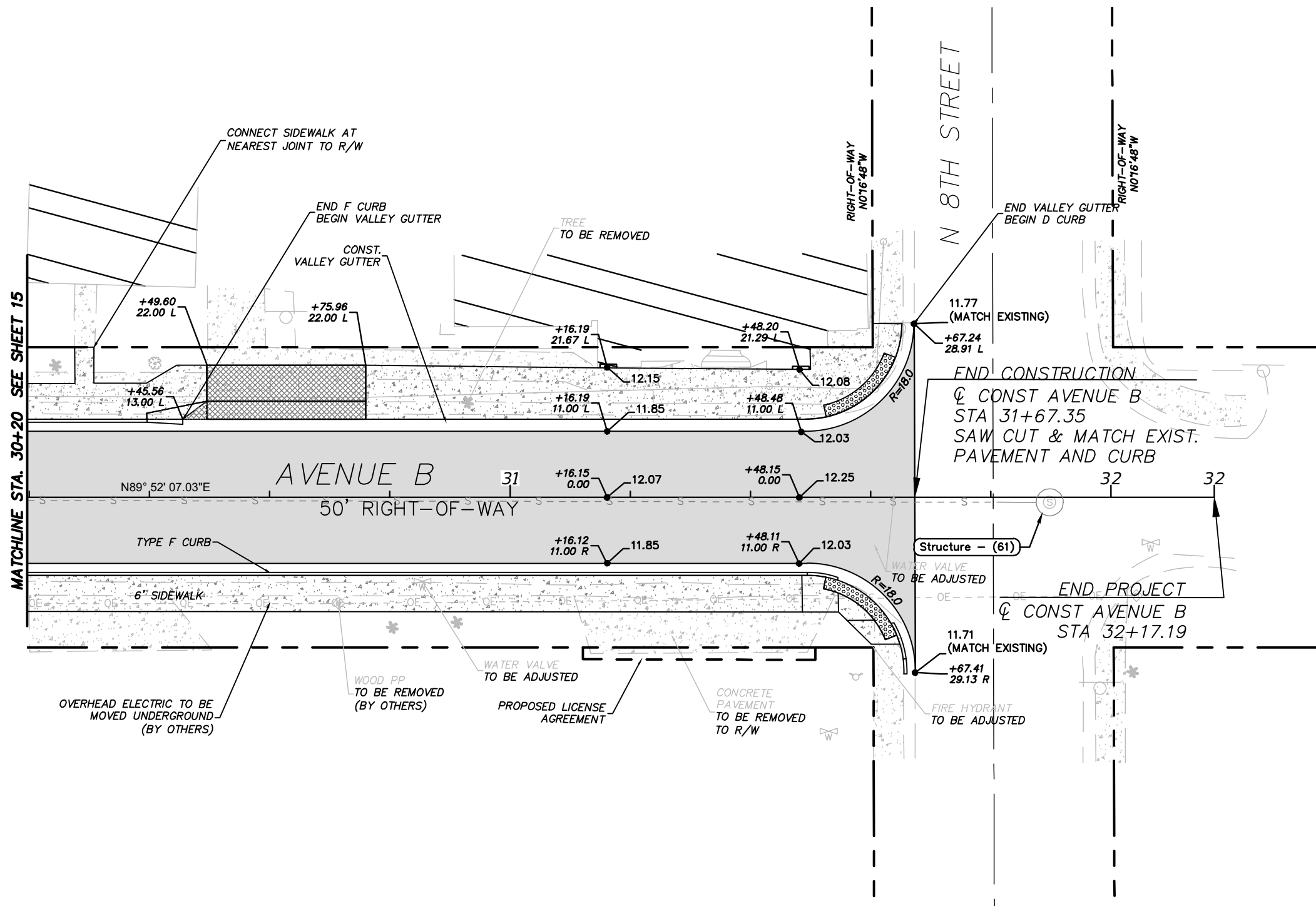
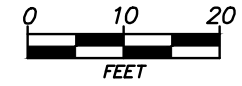
CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PLAN

SHEET NO.
15

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- 4" CONCRETE SIDEWALK
- 6" CONCRETE DRIVEWAY
- ASPHALT PAVEMENT

UTILITIES NOTE:
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OF GAS AND POTABLE WATER FACILITIES.

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

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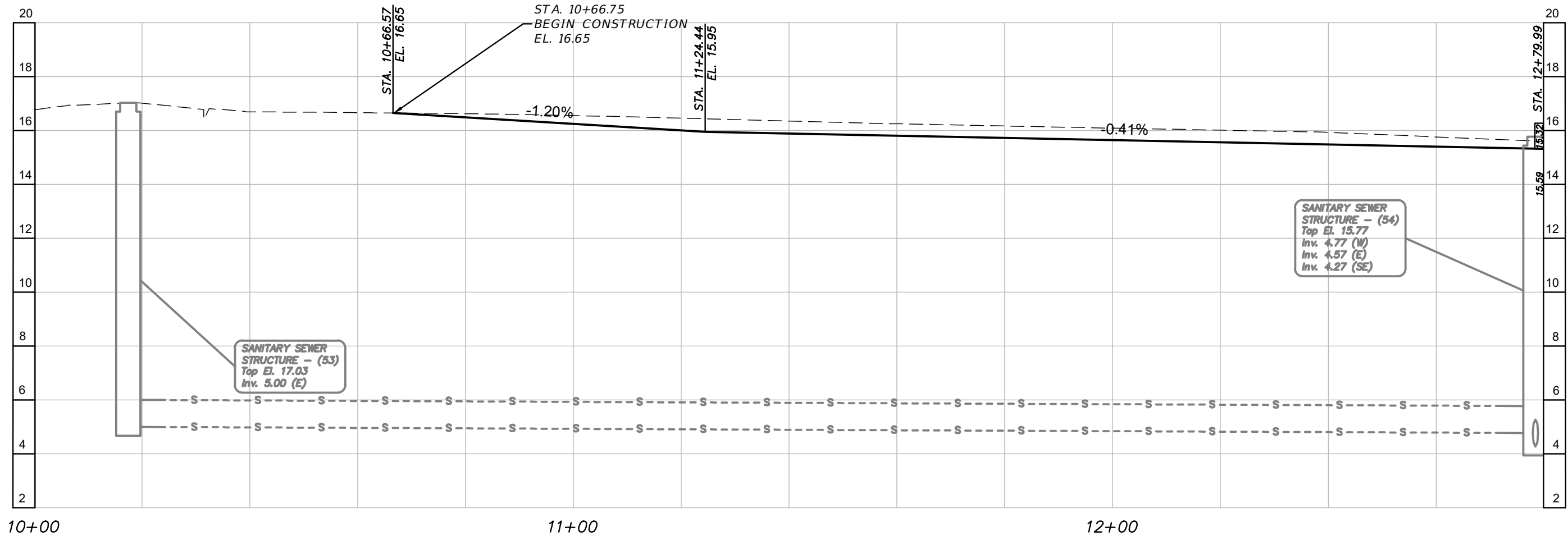
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

<h2>ROADWAY PLAN</h2>

SHEET NO. 16

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HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
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OF GAS AND POTABLE WATER FACILITIES.

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

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

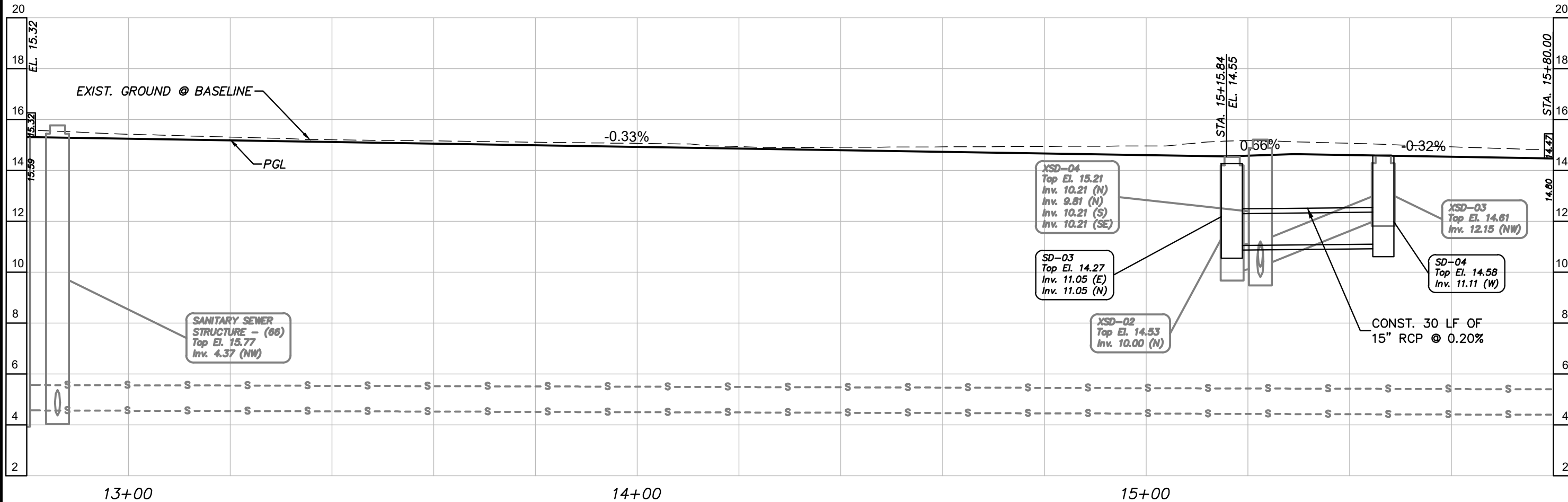
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE

SHEET NO.
17

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HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
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 OF GAS AND POTABLE WATER FACILITIES.

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



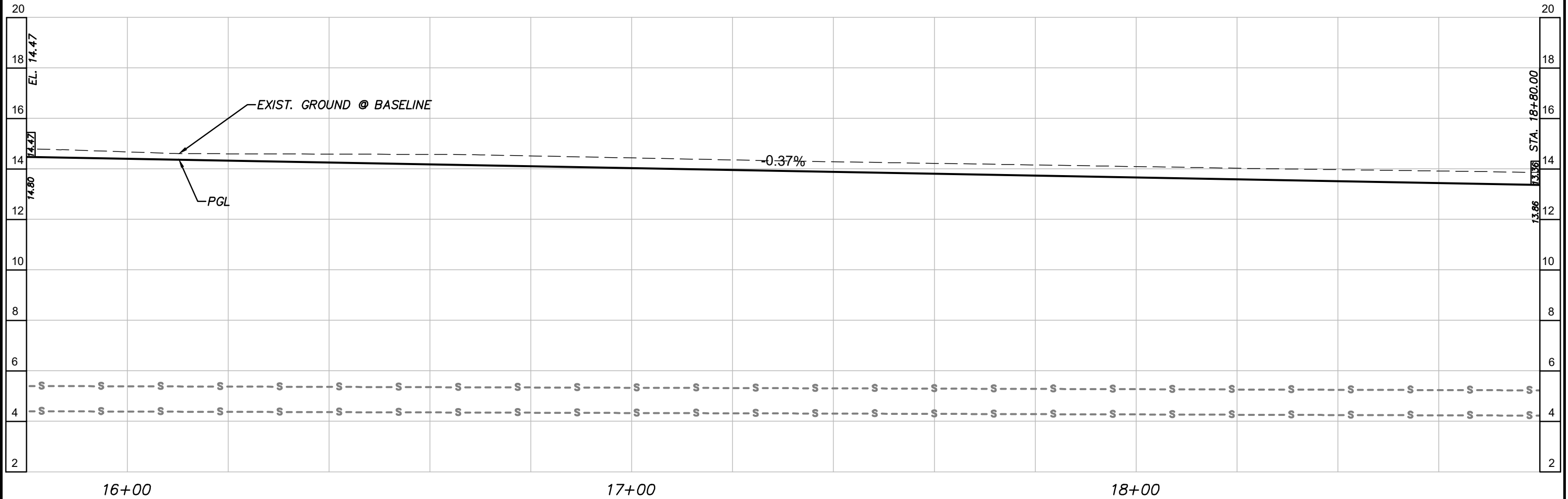
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE	
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SHEET NO.
18

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HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
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STEFAN K. MATTHES, P.E.
FL. REG. NO. 38723

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

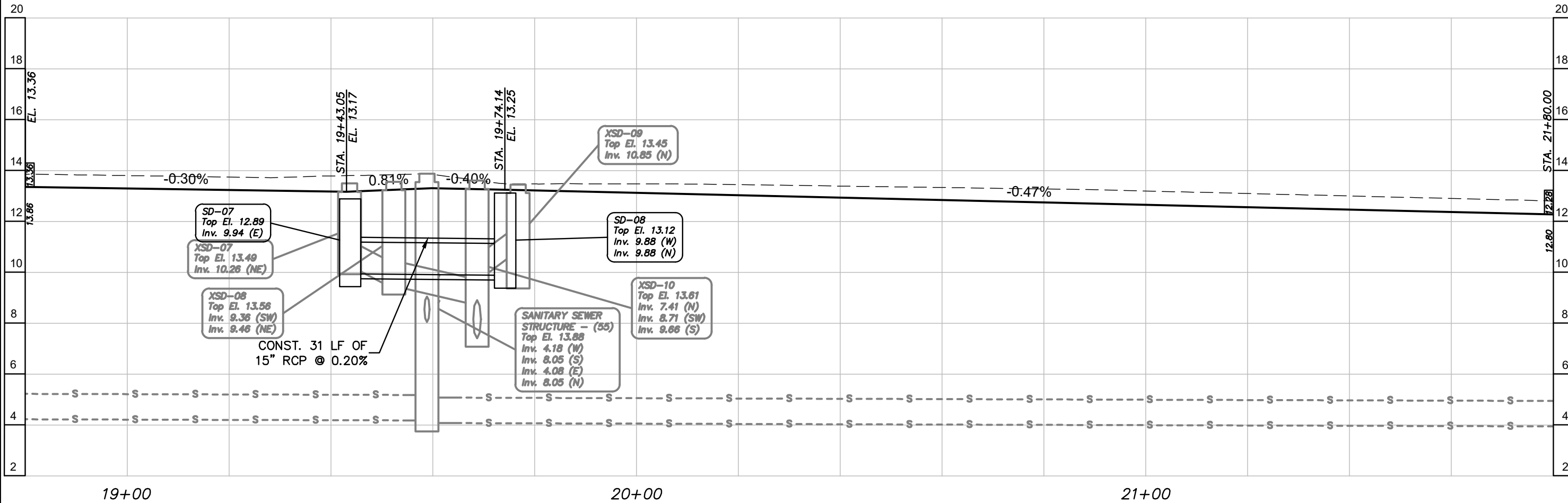


CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE	
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SHEET NO.
19

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHSIRI UDUGAMA




HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

STEFAN K. MATTHES, P.E.
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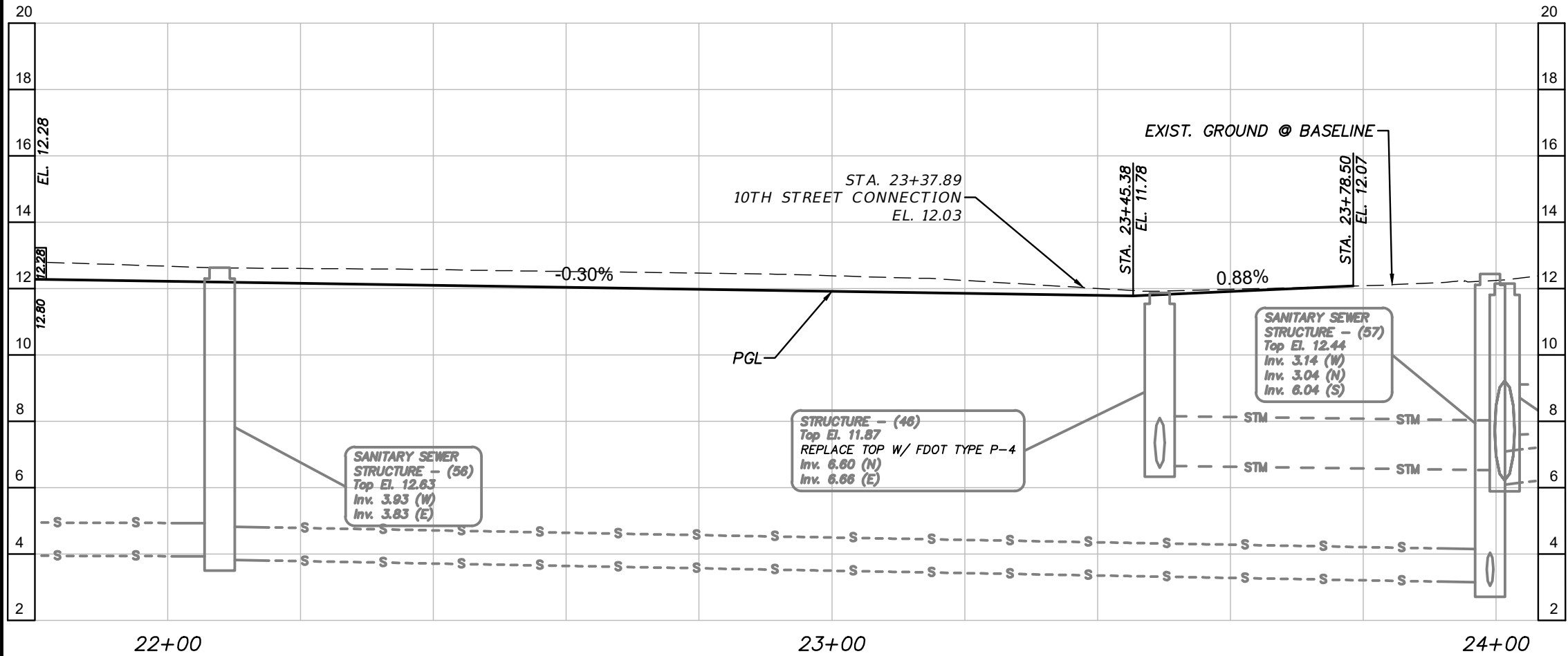
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE

SHEET NO.
20

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHSIRI UDUGAMA



UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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

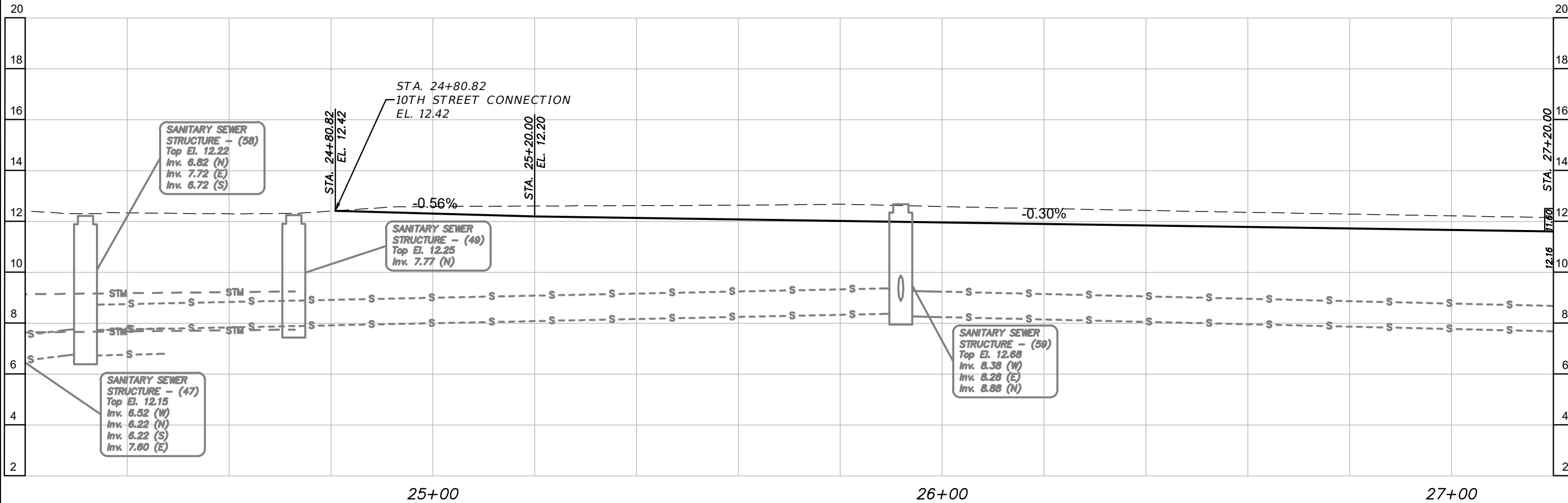
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STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286

CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE

SHEET NO.
21

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHIRI UDUGAMA



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-14-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

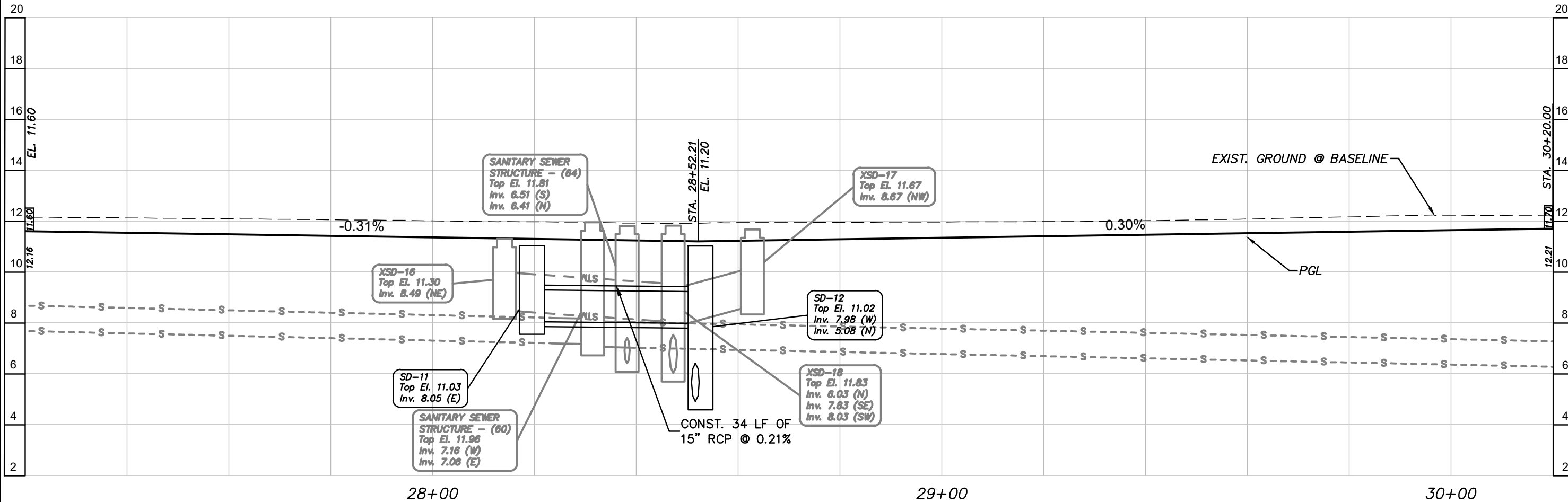
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CITY OF FORT PIERCE	
PROJECT NAME AVENUE B RECONSTRUCTION	FINANCIAL PROJECT ID -----

ROADWAY PROFILE

SHEET NO.
22

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHSIRI UDUGAMA



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-14-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



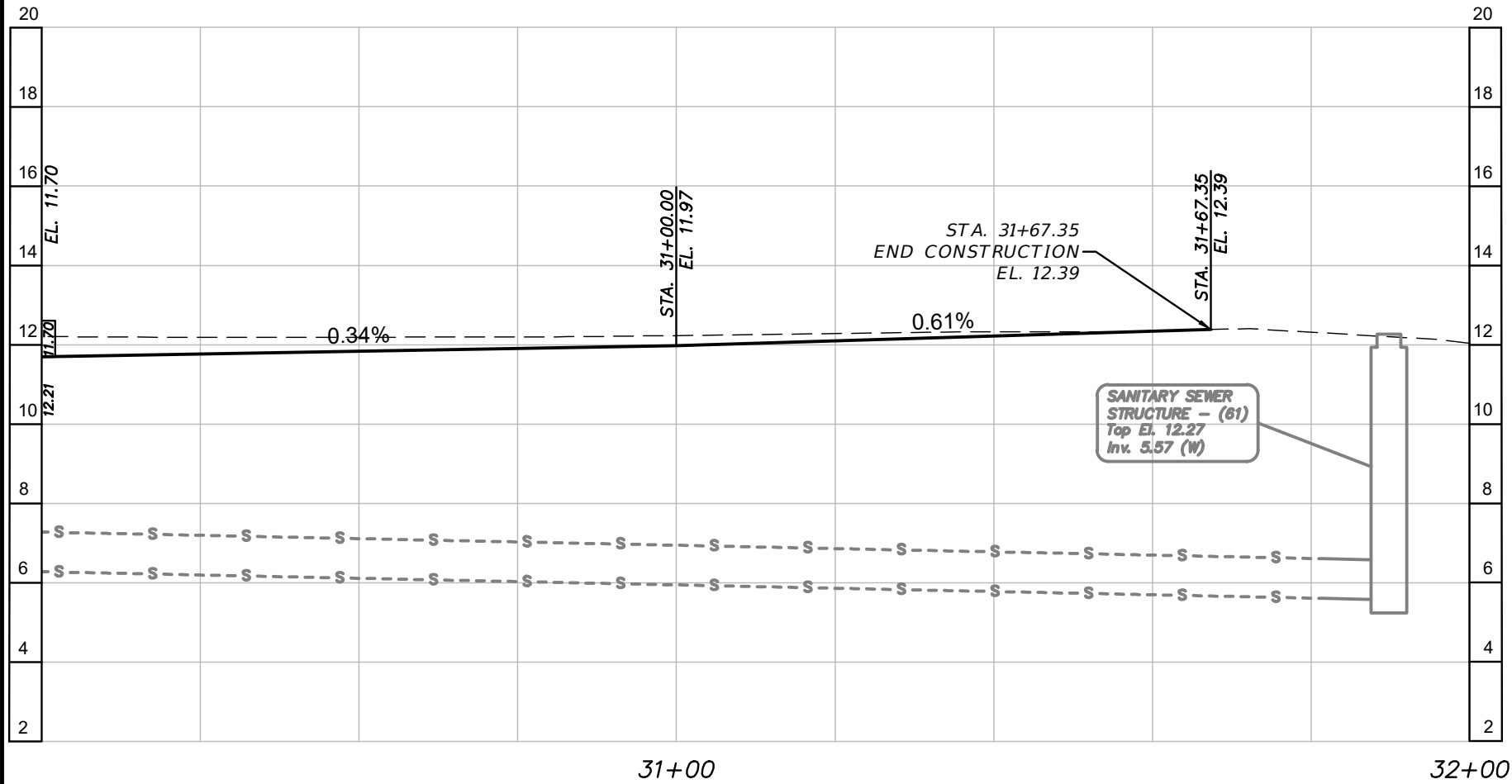
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE

SHEET NO.
23

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Plans.dwg Plotted: 3/31/2022 8:33 AM By: KITHSIRI UDUGAMA



UTILITIES NOTE:
REFER TO FPUA PLANS FOR THE LOCATION
OF GAS AND POTABLE WATER FACILITIES.

HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=4'

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
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CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	



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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

ROADWAY PROFILE

SHEET NO.
24

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

25
20
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25
20
15
10
5
0

80

60

40

20

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20

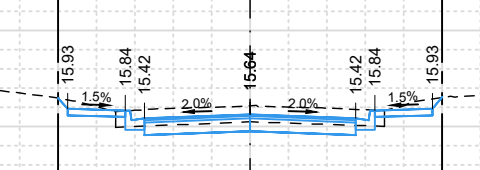
40

60

80

12+00.0

R/W LINE CONST. R/W LINE



0
12" PIPE

80

60

40

20

0

20

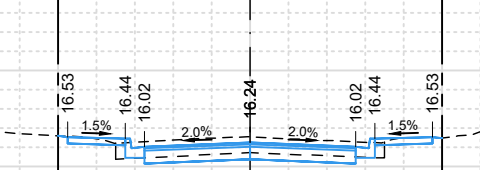
40

60

80

11+00.0

R/W LINE CONST. R/W LINE



0
12" PIPE

80

60

40

20

0

20

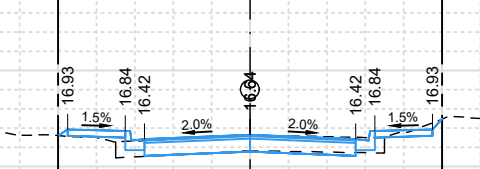
40

60

80

10+66.7

R/W LINE CONST. R/W LINE



0
12" PIPE

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

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A (SF)	V (CY)	A (SF)	V (CY)	A (SF)	V (CY)
		39.61		0.00	
			131.65		0.00
		31.48		0.00	
			33.27		0.55
		22.54		0.89	
			0.00		0.00

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

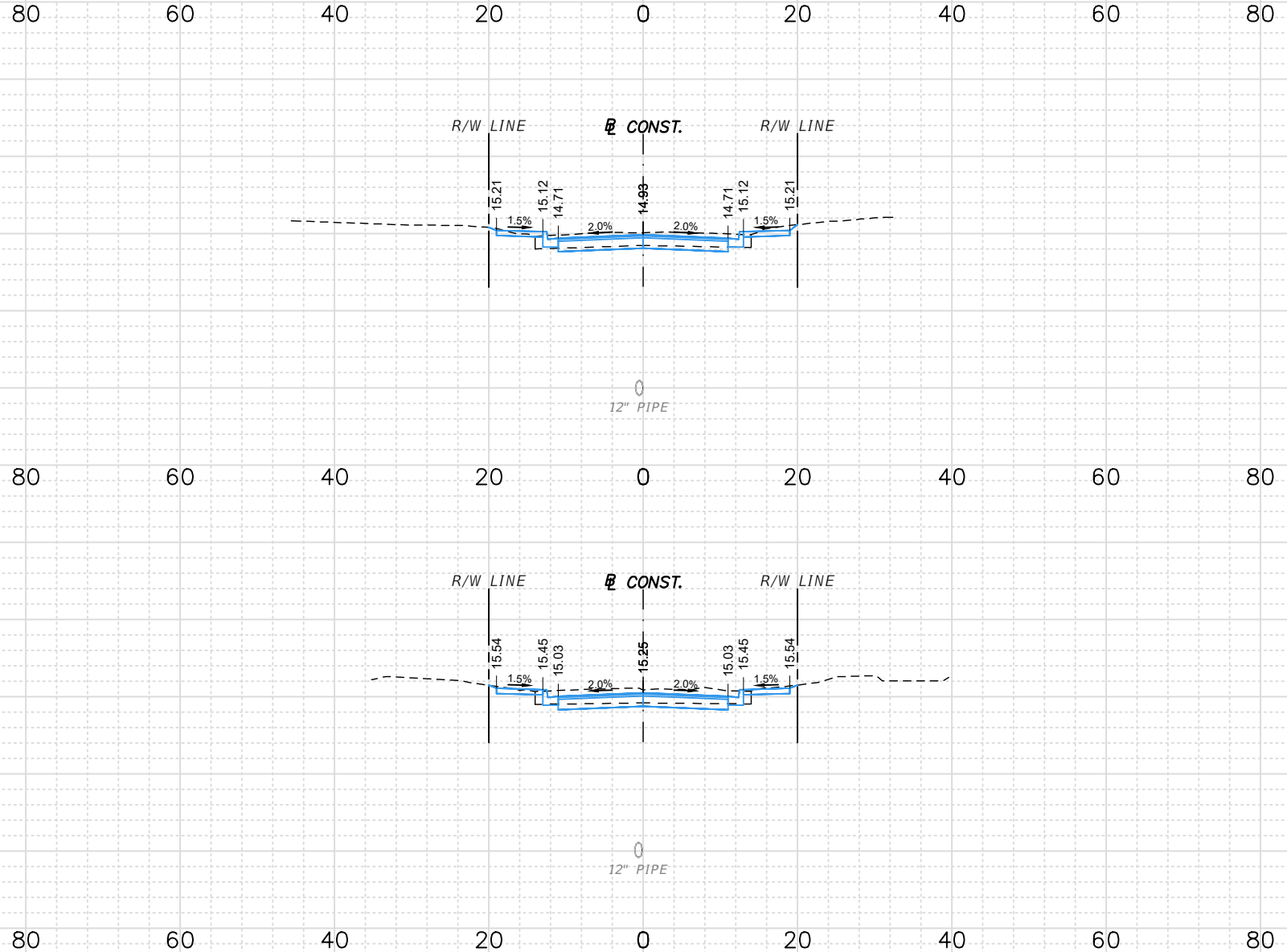
CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS	
SHEET NO. 25	

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

25
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25
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15
10
5
0



15+00.0
14+00.0
13+00.0

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A (SF)	V (CY)	A (SF)	V (CY)	A (SF)	V (CY)
		31.29		0.11	
			114.30		0.20
		30.43		0.00	
			119.40		0.00
		34.05		0.00	
			136.40		0.00

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

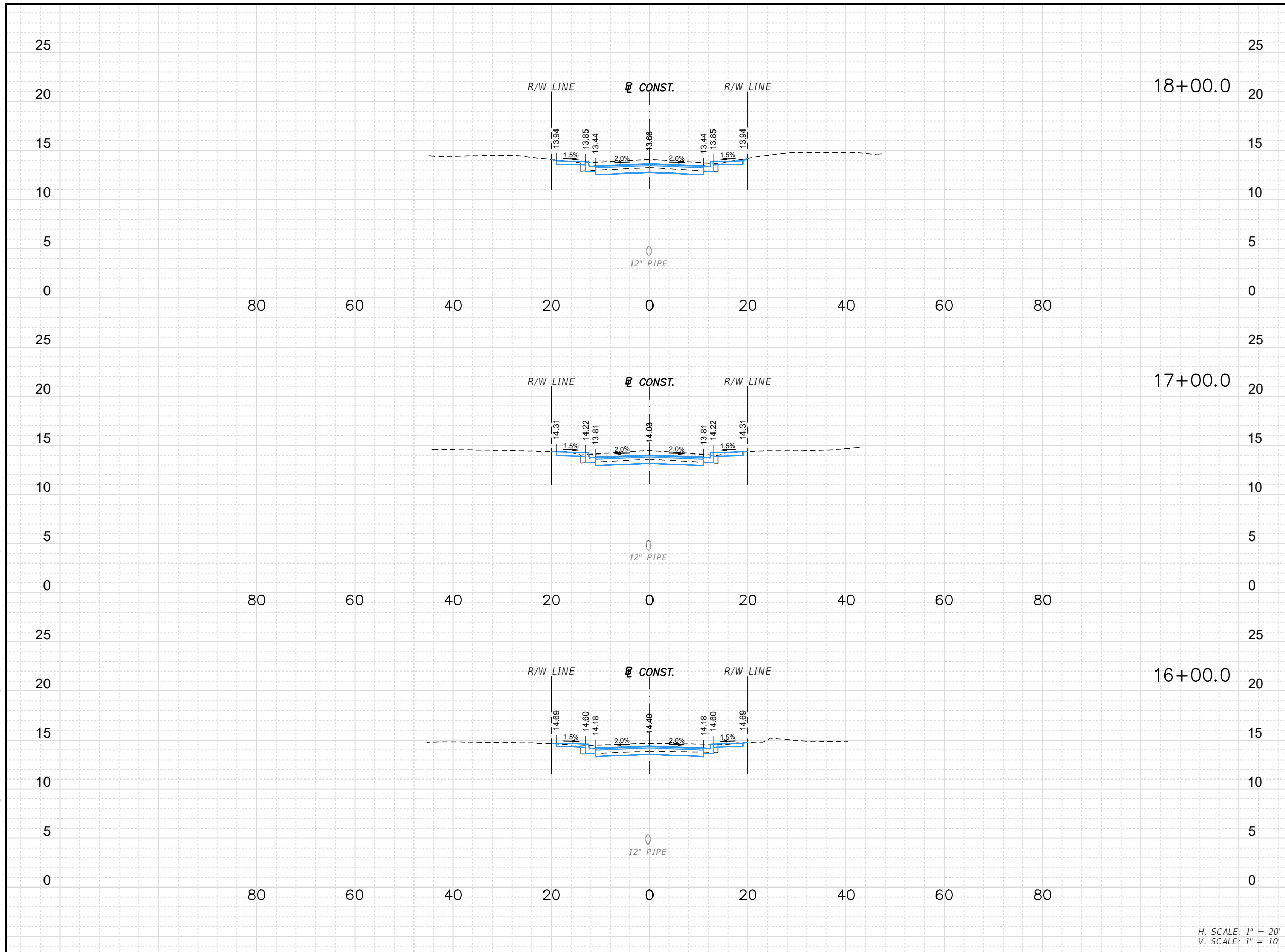
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS

SHEET NO.
26

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SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A (SF)	V (CY)	A (SF)	V (CY)	A (SF)	V (CY)
		34.24		0.00	
			123.72		0.00
		32.57		0.00	
			119.34		0.07
		31.87		0.04	
			116.97		0.27

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS

SHEET NO.
27

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

25
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80 60 40 20 0 20 40 60 80

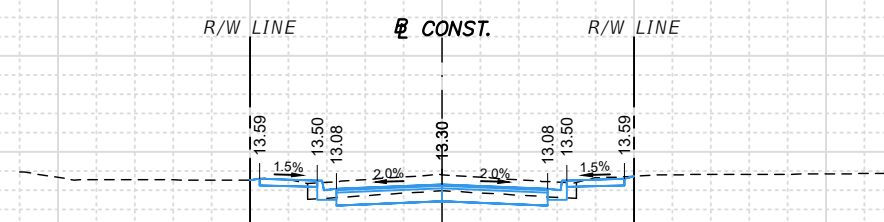
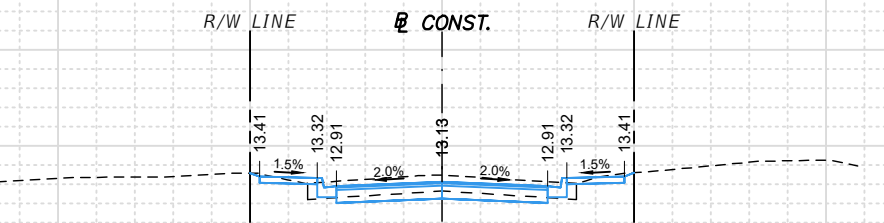
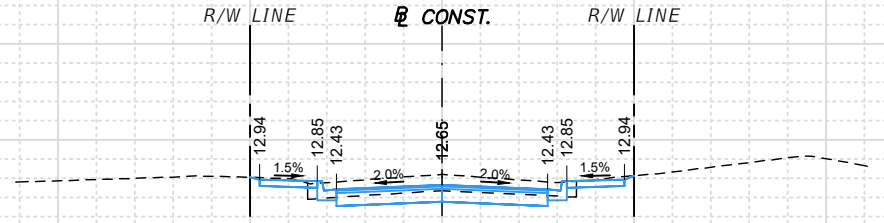
80 60 40 20 0 20 40 60 80

80 60 40 20 0 20 40 60 80

21+00.0

20+00.0

19+00.0



SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		37.14		0.00	
			126.63		0.00
		31.24		0.00	
			123.99		0.00
		35.72		0.00	
			129.54		0.00

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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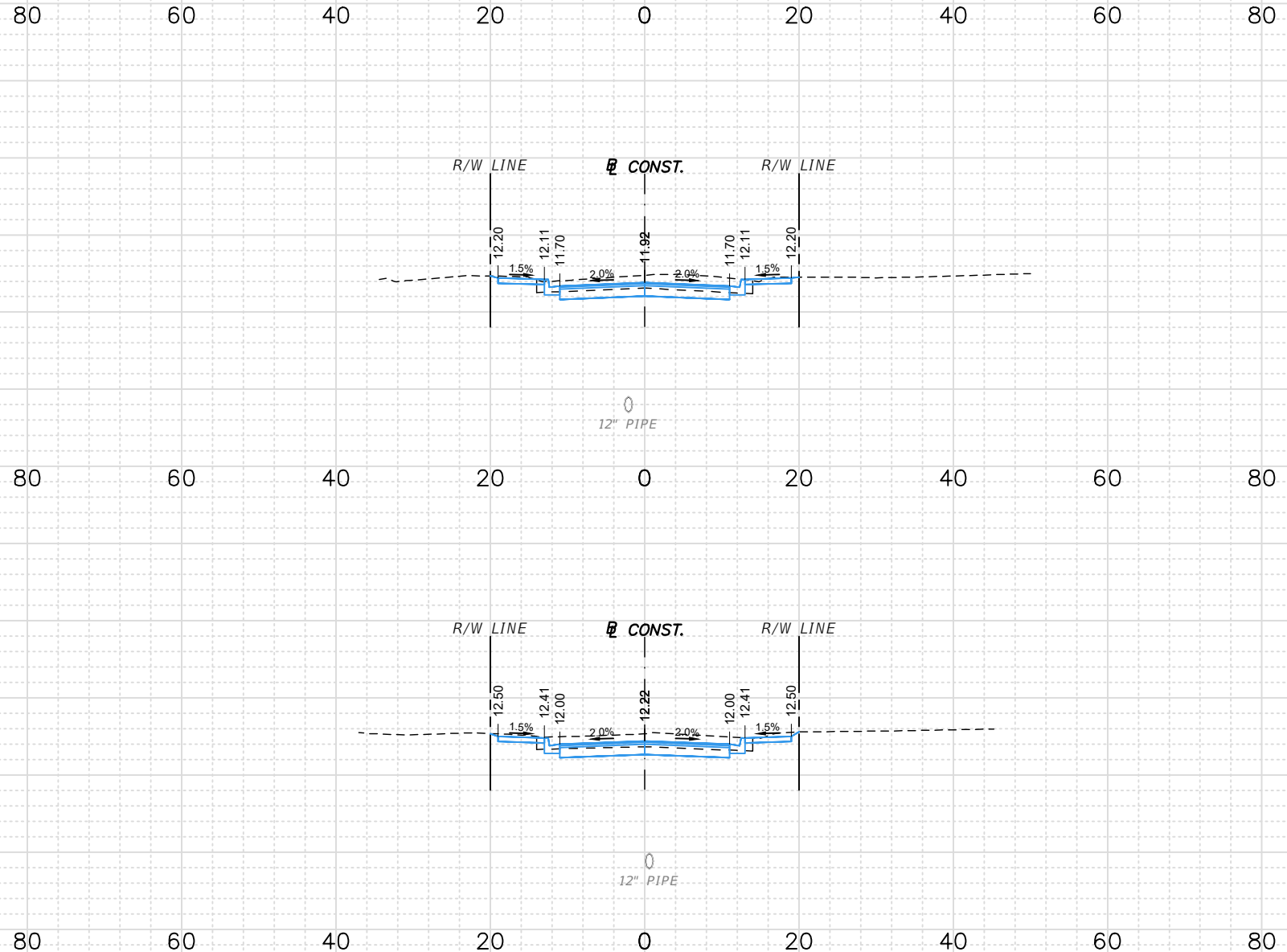
CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS	
SHEET NO.	
28	

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

25
20
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5
0
25
20
15
10
5
0



23+40.0
23+00.0
22+00.0

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		28.62		0.12	
			48.88		0.09
		37.37		0.00	
			141.54		0.00
		39.07		0.00	
			141.12		0.00

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
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ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS

SHEET NO.
29

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

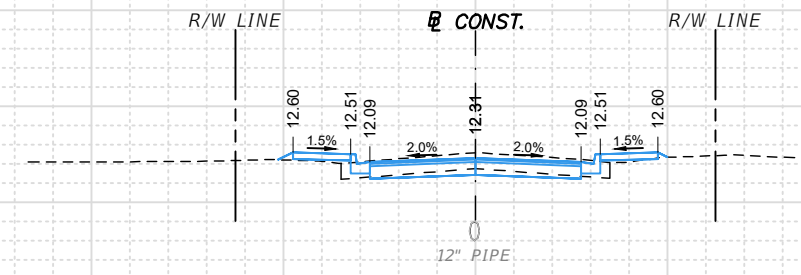
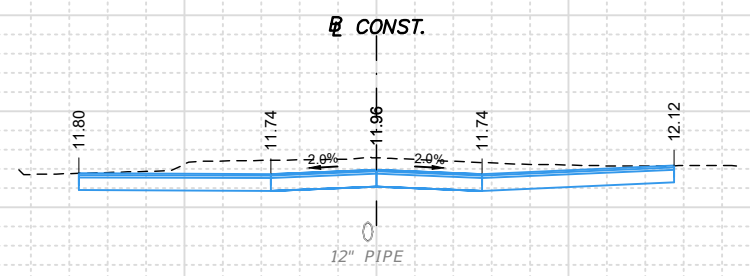
30
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15
10
5

80 60 40 20 0 20 40 60 80

26+00.0

25+00.0



SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		43.00		0.00	
			126.41		2.81
		25.28		1.51	
			159.70		4.83

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

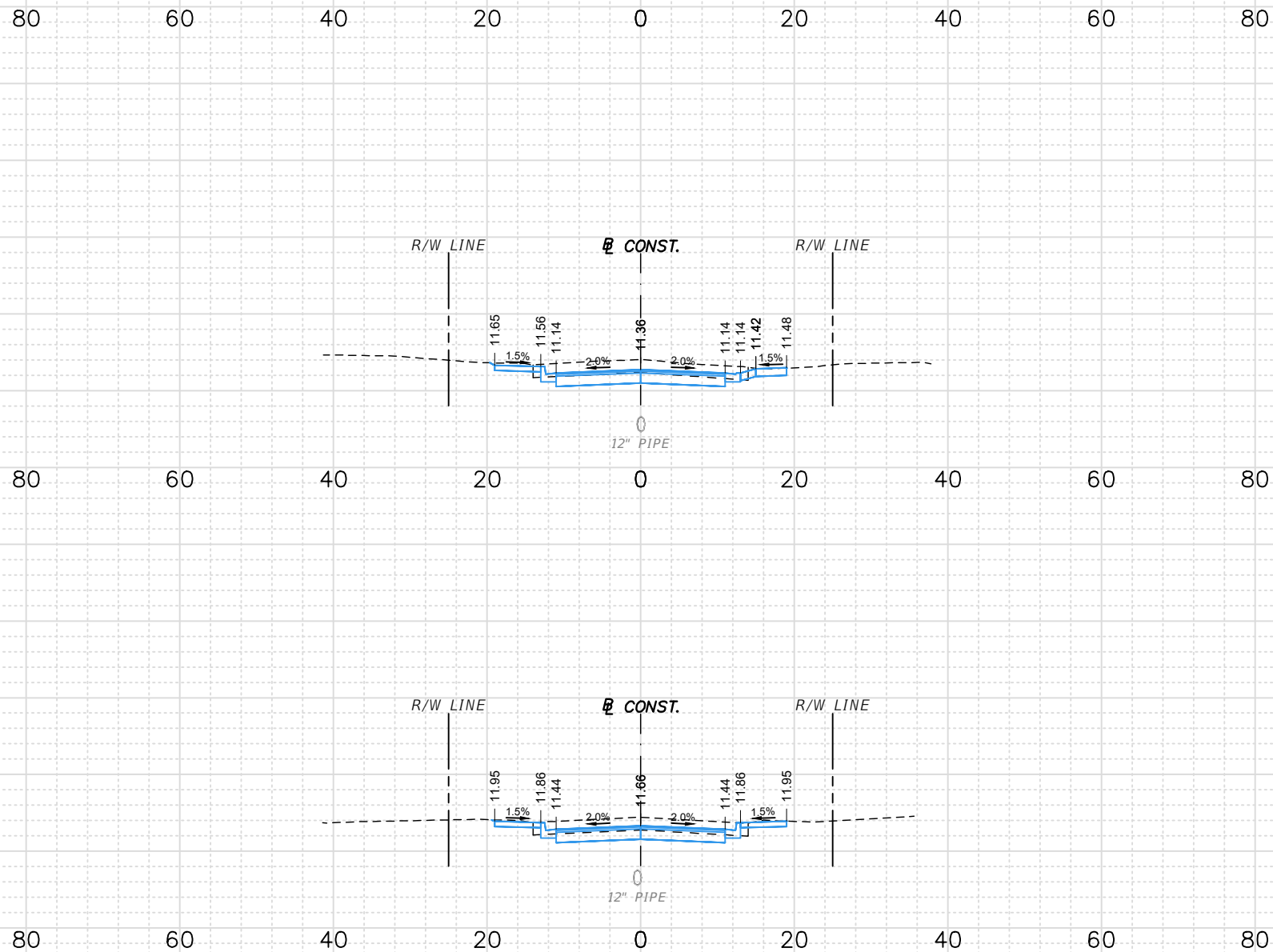
C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS	
SHEET NO. 30	

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA

30
25
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15
10
5
30
25
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15
10
5
30
25
20
15
10
5



29+00.0

28+00.0

27+00.0

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

SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		43.05		0.00	
			159.59		0.00
		43.13		0.00	
			151.59		0.00
		38.73		0.00	
			151.35		0.00

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

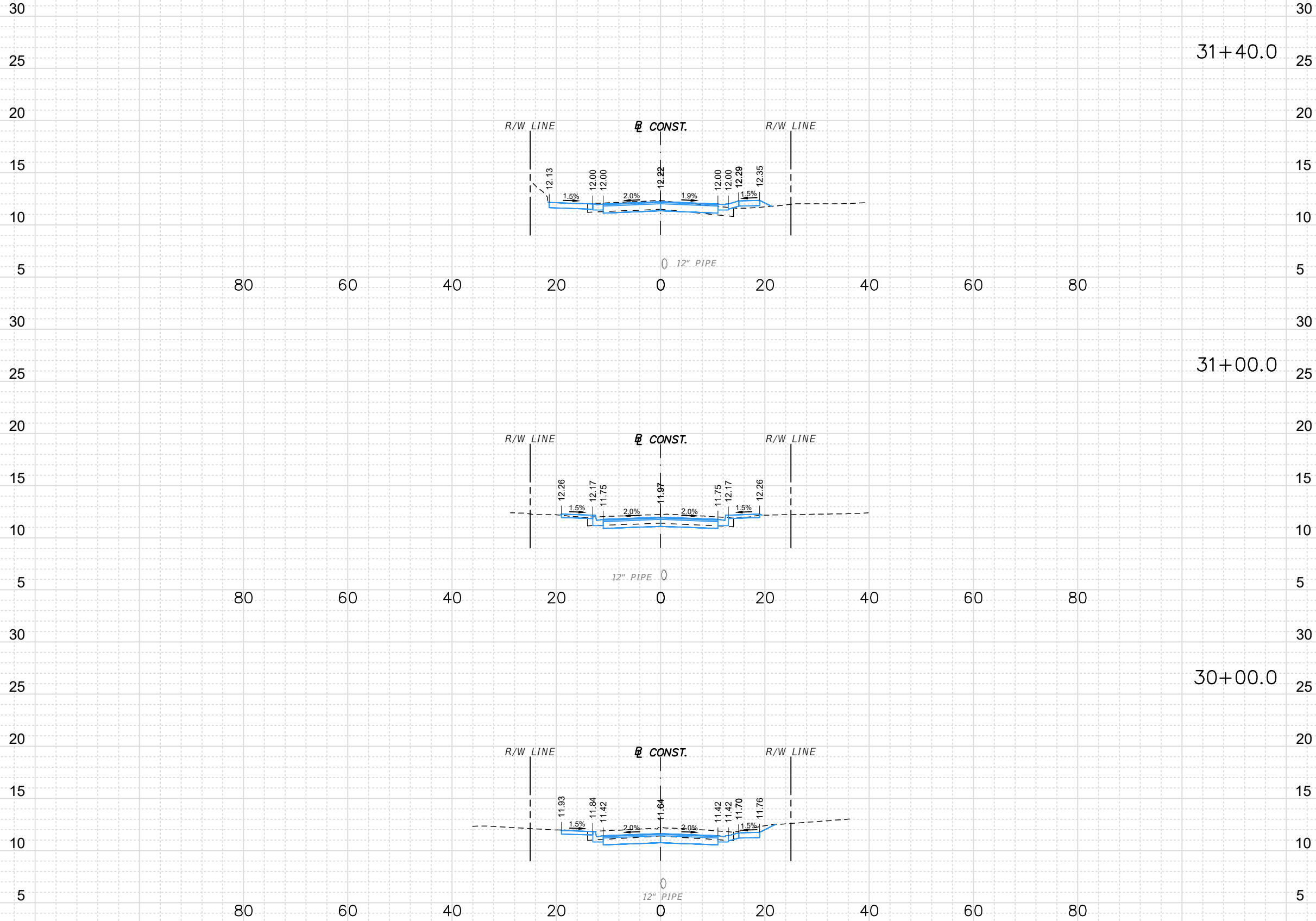
C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS	
SHEET NO.	
31	

P:\Proj-2020\20-121 COFP - Avenue B Reconstruction\Eng\20-121 Cross Sections.dwg Plotted: 3/31/2022 8:34 AM By: KITHSIRI UDUGAMA



SUBSOIL EXC.		REGULAR EXC.		EMBK.	
A	V	A	V	A	V
(SF)	(CY)	(SF)	(CY)	(SF)	(CY)
		26.45		1.68	
			41.16		1.27
		TOTAL EXC.		TOTAL EMBK.	
		171.02		544.94	
		29.12		0.04	
			132.66		0.08
		42.52		0.00	
			158.47		0.00

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

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

C&T JOB NO. 20-121	
DESIGNED BY SKM	DRAWN BY ZJM 9-11-20
CHECKED BY	CHECKED BY
ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723	

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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-

CROSS SECTIONS

SHEET NO.
32

CITY OF FORT PIERCE

DATE OF SURVEY: OCTOBER 2020
 SURVEY MADE BY: ARDAMAN & ASSOCIATES, INC.
 SUBMITTED BY: CULPEPPER & TERPENING, INC.

DISTRICT: 4
 ROAD NO.: AVENUE B
 COUNTY: ST. LUCIE

AVENUE B IMPROVEMENTS
 8TH STREET TO 13TH STREET


CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : SURVEY ENDS STA. :

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)				DESCRIPTION	CORROSION TEST RESULTS					
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX		AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	-	-	-	-	-	-	-	-	-	-	-	-	-	A-3	Brown and gray fine sand to fine sand with silt	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	A-2-4	Dark brown to brown fine sand with clay	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-	-	-	-	A-2-6	Brown clayey fine sand	-	-	-	-	-

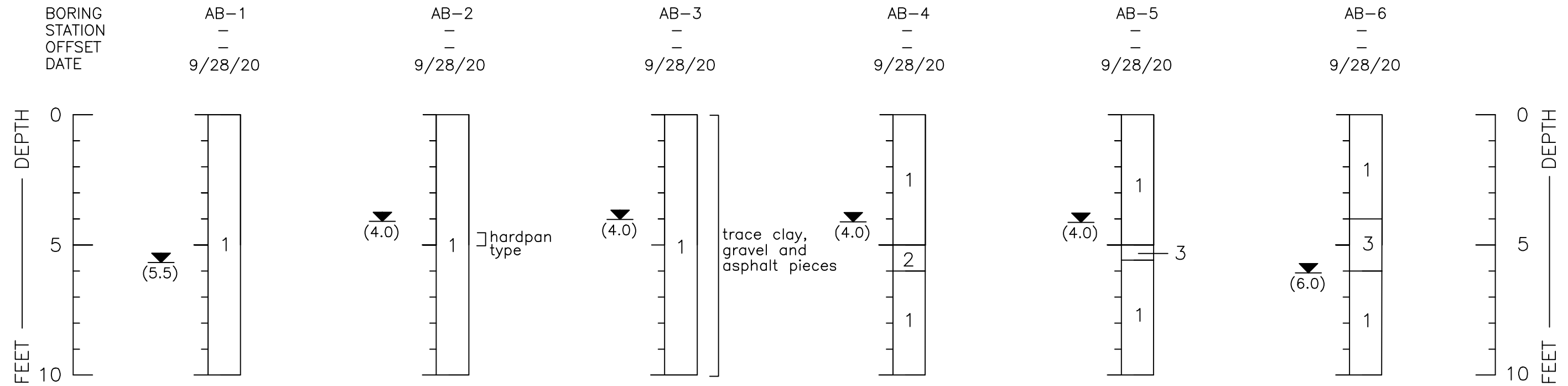
EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

- NOTES:
- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. ANY STRATUM CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-3. FOR FURTHER DETAILS SEE SECTION 120-3.
 - LEGEND  DEPTH OF ENCOUNTERED GROUNDWATER TABLE
 - THE SYMBOL '___' REPRESENTS AN UNMEASURED PARAMETER.
 - ORGANIC TOPSOIL/A-8 MATERIAL SHALL BE REMOVED WITHIN THE PROPOSED EMBANKMENT LIMITS.
 - THE MATERIAL FROM STRATUM NUMBER 1 IS SELECT AND APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505.
 - THE MATERIAL FROM STRATUM NUMBER 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
 - THE MATERIAL FROM STRATUM NUMBER 3 SHALL BE TREATED AS PLASTIC.
 - REMOVAL OF PLASTIC MATERIAL (STRATUM 3) OCCURRING WITHIN THE ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX No. 500 UNLESS OTHERWISE SHOWN ON THE PLANS AND THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX No. 505 OF FDOT DESIGN STANDARDS.

REVISIONS						CITY OF FORT PIERCE	AUGER BORING PROFILES AVENUE B (8TH STREET TO 13TH STREET) FORT PIERCE, FLORIDA	SHEET NO. 33
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			
						ROAD NO. N/A	COUNTY ST. LUCIE	FINANCIAL PROJECT ID N/A

Ardaman & Associates, Inc.
 460 NW Concourse Place, Unit 1
 Port St. Lucie, Fl. 34986
 E.O.R.—Dan Zrallack, P.E. No. 63911

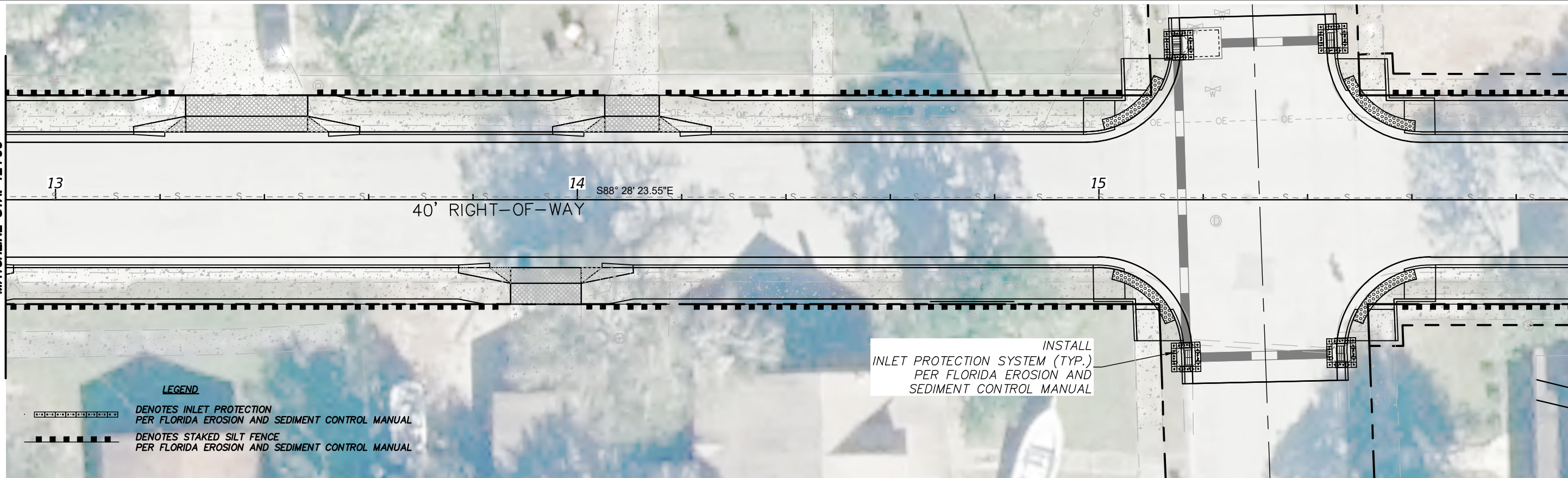
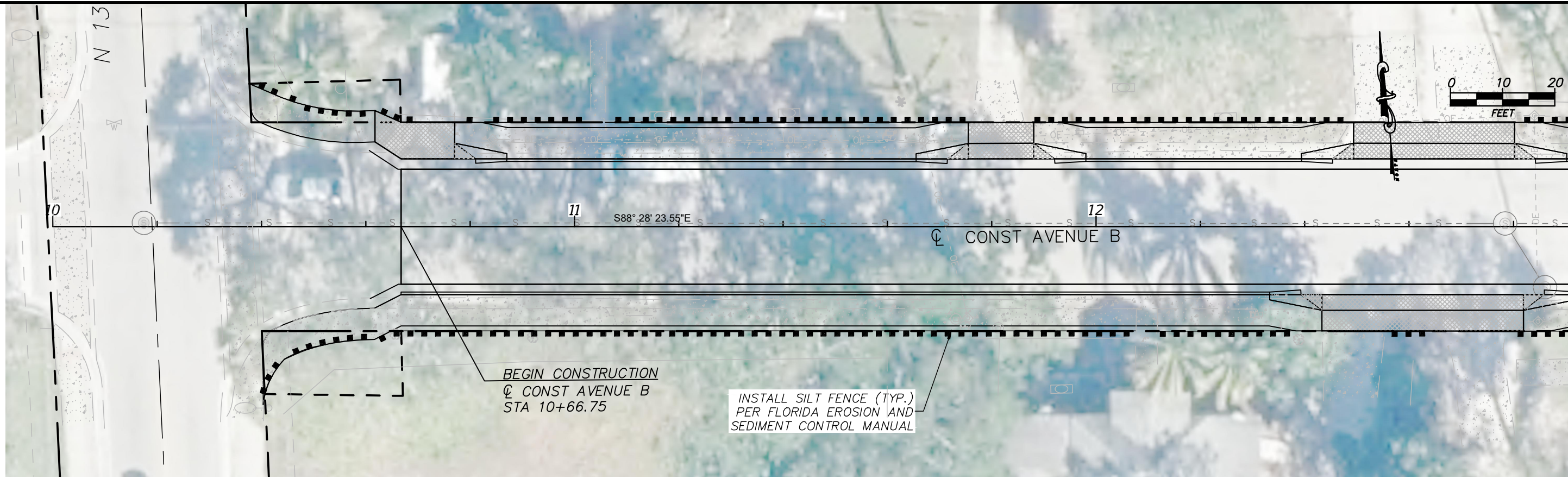


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▼ DEPTH TO GROUNDWATER MEASURED ON DATE DRILLED
(4.0)

REVISIONS						Ardaman & Associates, Inc. 460 NW Concourse Place, Unit 1 Port St. Lucie, Fl. 34986 E.O.R.—Dan Zrallack, P.E. No. 63911	ST. LUCIE COUNTY			AUGER BORING PROFILES AVENUE B (8TH STREET TO 13TH STREET) FORT PIERCE, FLORIDA	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		34
						N/A	ST. LUCIE	N/A			

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LEGEND
 ○○○○○○○○○○○ DENOTES INLET PROTECTION PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL
 - - - - - DENOTES STAKED SILT FENCE PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL

INSTALL INLET PROTECTION SYSTEM (TYP.) PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL

BEGIN CONSTRUCTION
 CL CONST AVENUE B
 STA 10+66.75

INSTALL SILT FENCE (TYP.) PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL



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

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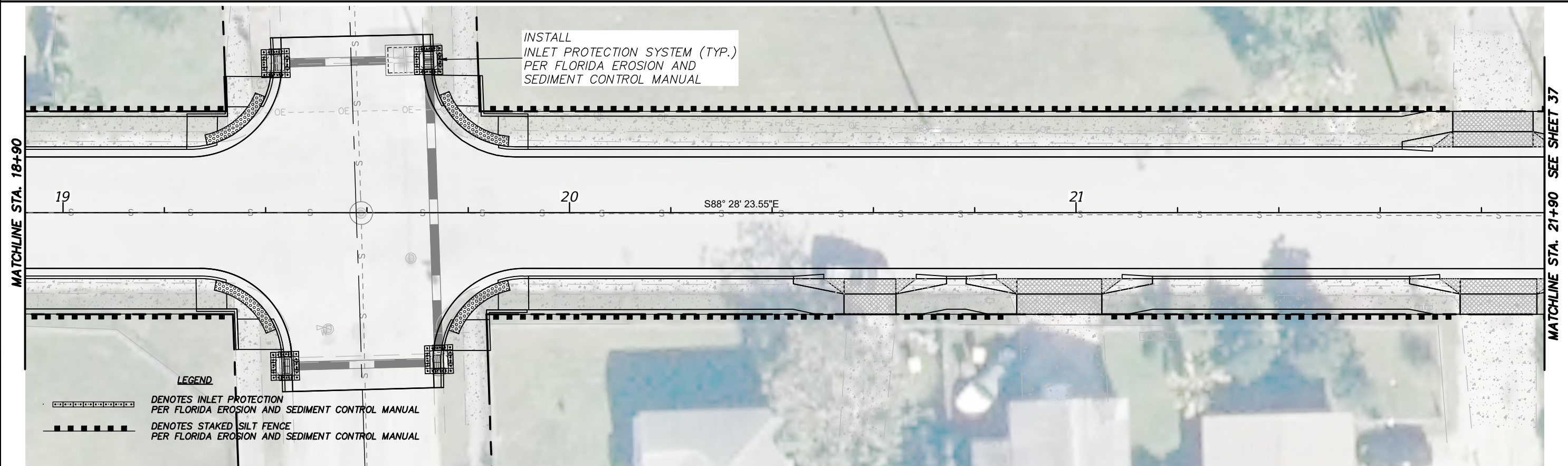
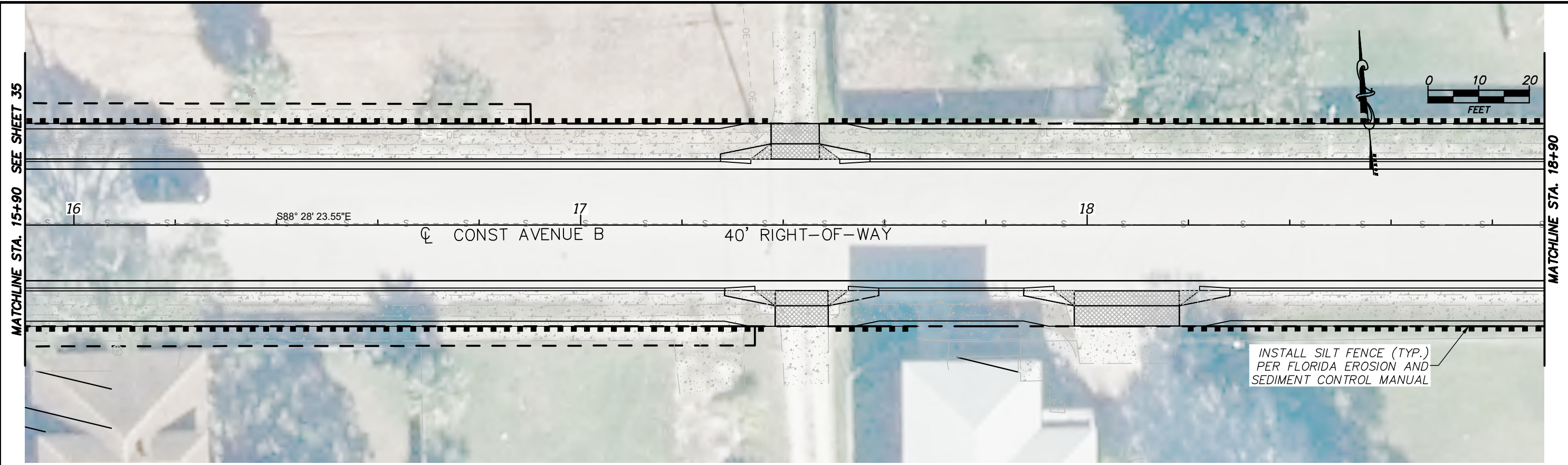
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CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

EROSION & SEDIMENT CONTROL PLANS

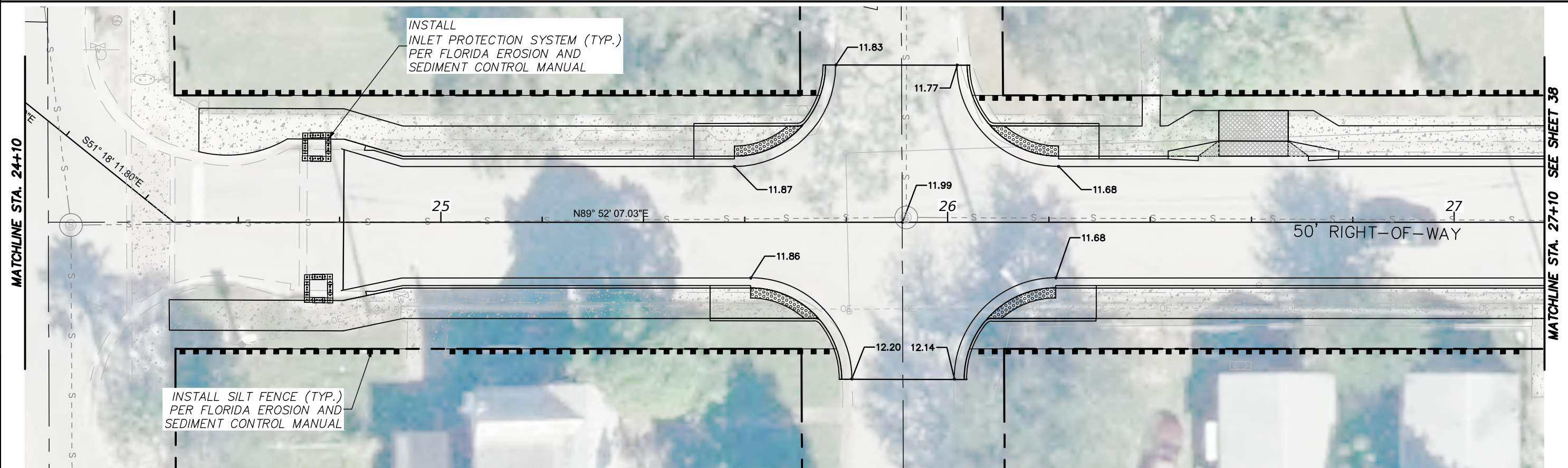
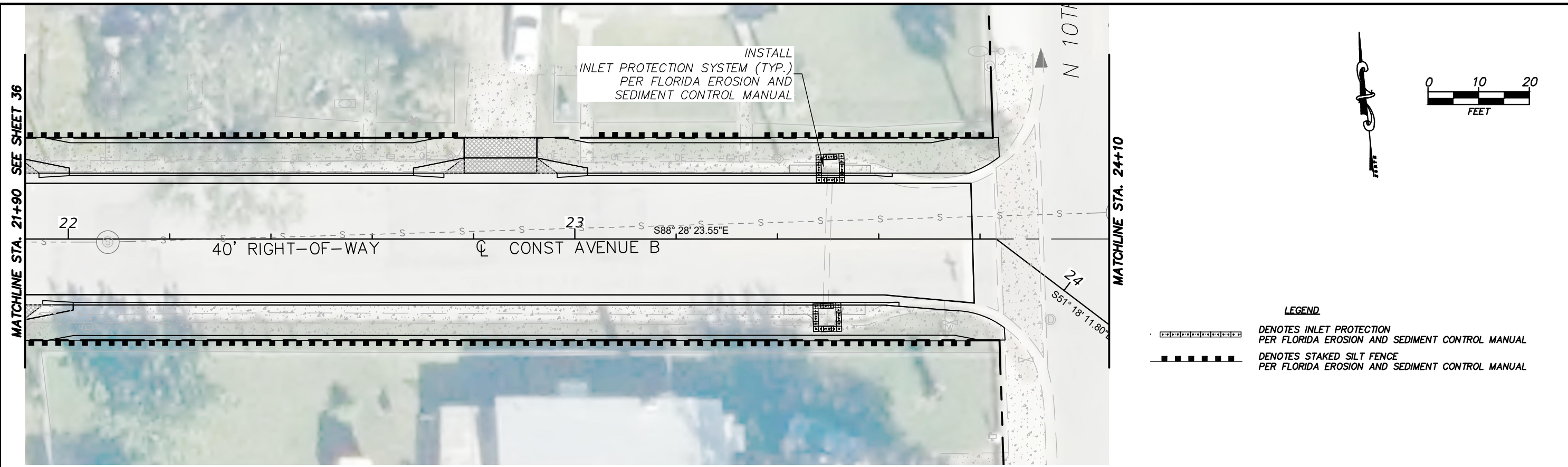
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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY SKM		DRAWN BY ZJM 9-14-20	PROJECT NAME		FINANCIAL PROJECT ID	36
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						ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723						

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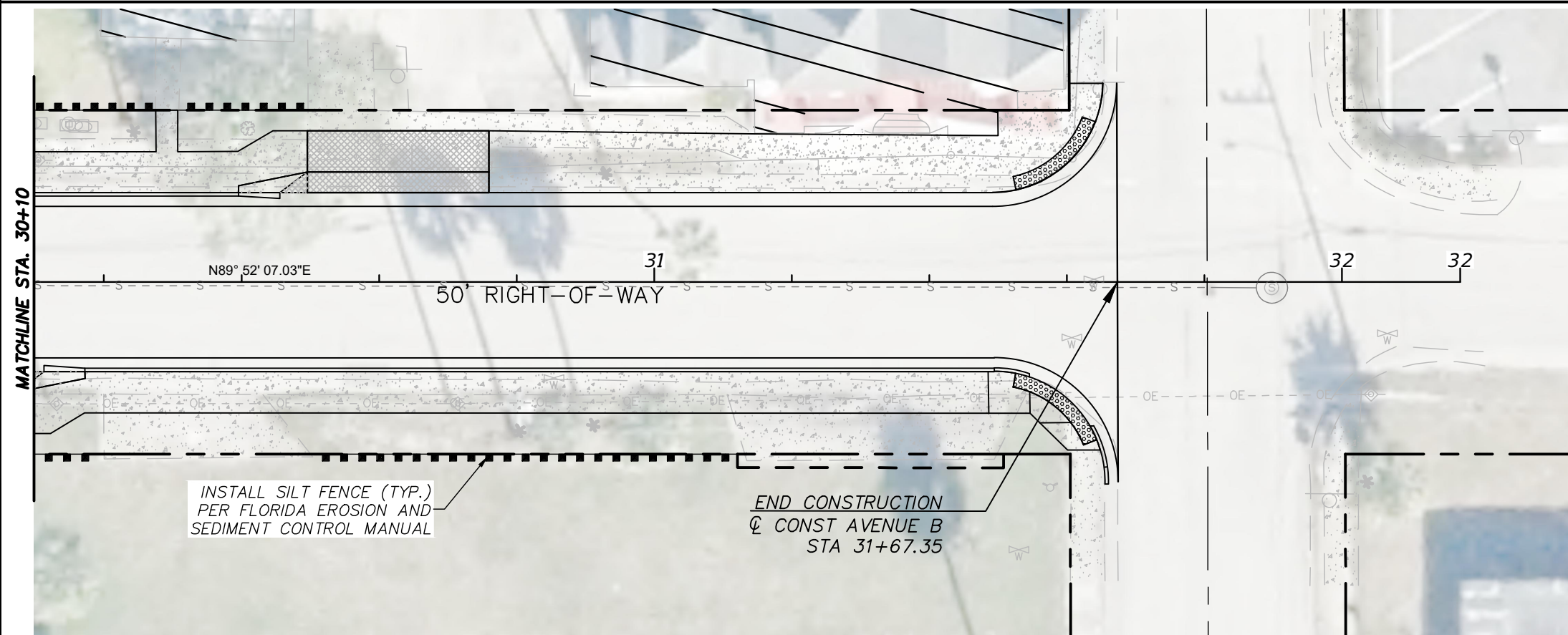
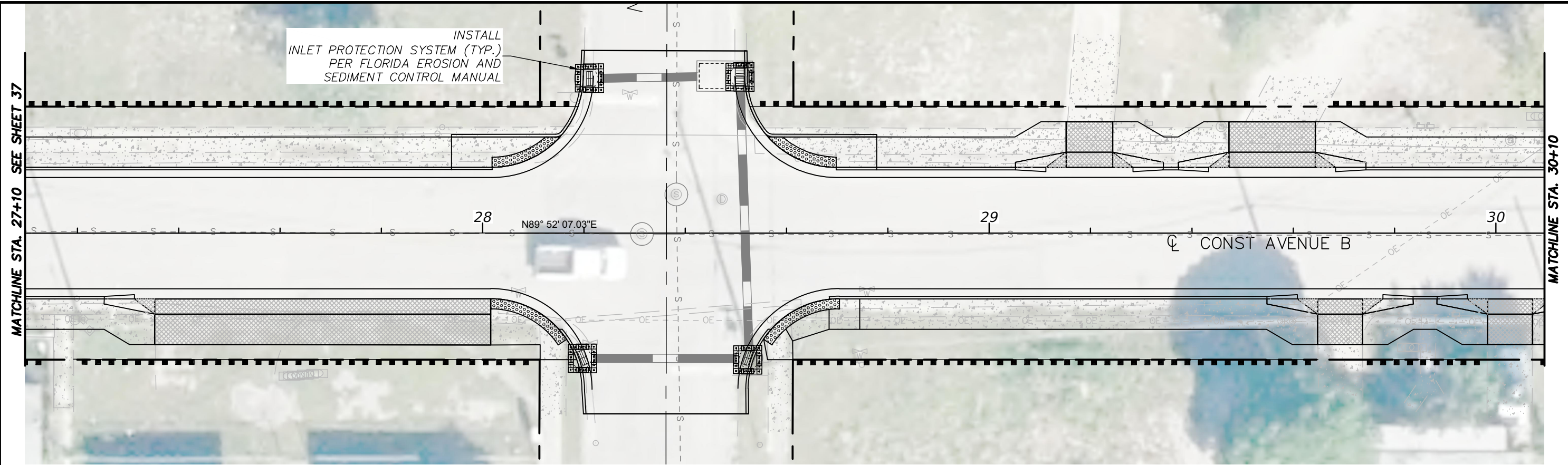
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EROSION & SEDIMENT CONTROL PLANS


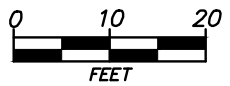
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LEGEND


 DENOTES INLET PROTECTION PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL
 DENOTES STAKED SILT FENCE PER FLORIDA EROSION AND SEDIMENT CONTROL MANUAL

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EROSION & SEDIMENT CONTROL PLANS

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THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION 2020-21, 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.

1.0 SITE DESCRIPTION

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT IS THE RECONSTRUCTION OF AVENUE B FROM 8TH TO 13TH ST WITH DRAINAGE IMPROVEMENTS.

THE LIMITS OF THE PROJECT INCLUDE:

THE AVENUE B RIGHT-OF-WAY FROM 13TH EAST TO 8TH.

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 DIFFERENT 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 ALL UPSTREAM AREAS ARE STABILIZED.

SILT FENCE IS TO BE PLACED ONLY WITHIN THE RIGHT-OF-WAY. 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. CLEARING AND GRUBBING, EARTHWORK AND EXCAVATION OF OPEN SWALES. REMOVE EXISTING UNWANTED SOILS, CONCRETE AND STORM DRAIN FACILITIES AND PROPERLY DISPOSE THE MATERIALS.
2. INSTALLATION OF STORM DRAIN FACILITIES AS CALLED FOR IN THE PLANS.
3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF THE SIDEWALK.
4. STABILIZE AND SOD THE UNPAVED PROJECT AREA AS CALLED FOR IN THE PLANS

1.C. AREA ESTIMATED

TOTAL SITE AREA: 2.1 ± AC
TOTAL AREA TO BE DISTURBED: 1.9 ± AC

1.D. RUNOFF DATA:

RUNOFF COEFFICIENTS:
BEFORE: 0.3
DURING: VARIES FROM 0.3 TO 0.7
AFTER: 0.4

OUTFALL INFORMATION:

ALL DRAINAGE TO BE DIRECTED TO THE EXISTING STORMWATER MANAGEMENT SYSTEM.

SURFACE WATERS: N/A

DISCHARGE POINTS TO SURFACE WATERS: MOORE'S CREEK

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 AND FLOW DIRECTIONS ARE SHOWN UNDER EXISTING AND PROPOSED CONDITIONS THROUGHOUT THE CONSTRUCTION PLANS.

- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTIONS SHEETS AND THE 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 AREAS SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

- AREAS NOT TO BE DISTURBED: THE AREAS NOT TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, AND THE CROSS SECTION SHEETS.

- 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 SHEET.

- 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 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 NOTES IN THE CONSTRUCTION PLANS AND FDOT STANDARD PLAN INDEXES. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL NOTES AND FDOT STANDARD PLAN INDEXES, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE 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.

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 ALL UPSTREAM AREAS ARE STABILIZED.

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 7 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 SPECIFICATIONS SECTION 104.

- TURF AND SOD IN ACCORDANCE WITH SPECIFICATIONS SECTION 104.

PERMANENT:

-ASPHALT OR CONCRETE SURFACE.

-SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

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 THOUGH 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.

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

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EROSION & SEDIMENT CONTROL NOTES	
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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 REGULATIONS:

IN THE 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 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.

- 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 MINIMIZE 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 GUY BOISCLAIR AT SFWMD AT 772-215-2983.

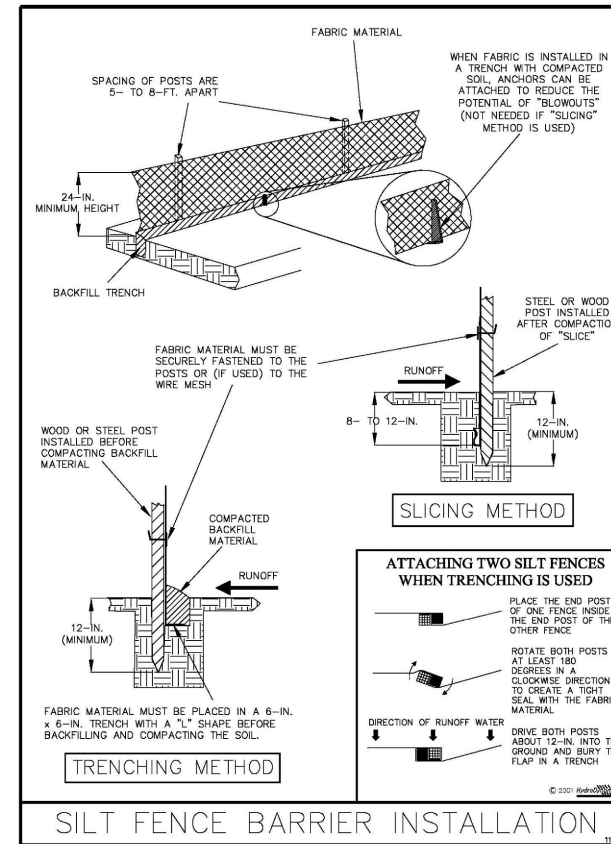


Figure V-40: Illustration of a Silt Fence Barrier

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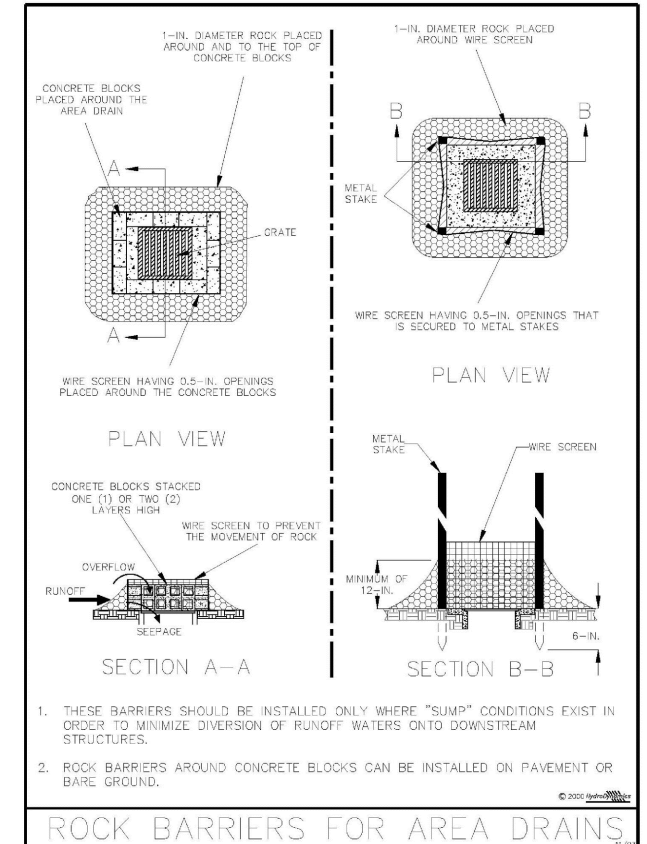


Figure V-46: Illustration of Rock Barriers around Area Drains

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EROSION & SEDIMENT CONTROL NOTES

SHEET NO.	40
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TRAFFIC CONTROL PLAN – GENERAL NOTES

1. ALL EXISTING PAVEMENT MARKINGS AND REFLECTIVE PAVEMENT MARKERS WHICH ARE DISTURBED OR REMOVED DUE TO TEMPORARY DETOURS AND/OR CONSTRUCTION OPERATIONS OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH 2020-2021 FDOT DESIGN STANDARDS, INDEX NO. 17346 AND 17352 AT NO ADDITIONAL COST TO THE CONTRACT.

2. WRITTEN NOTIFICATION TO THE CITY OF FORT PIERCE ENGINEERING DEPARTMENT OF PROPOSED LANE CLOSURE OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 30 WORKING DAYS IN ADVANCE OF CLOSURE OR DETOUR. TWO WEEKS BEFORE LANE CLOSURES, THE CONTRACTOR SHALL THEN CONTACT:

CITY OF FORT PIERCE ENGINEERING DEPARTMENT
 100 NORTH U.S. HIGHWAY #1
 FORT PIERCE, FL 34950
 PHONE: (772) 460-2200

LANE CLOSING SHALL BE COORDINATED WITH SPECIAL EVENTS AND HOLIDAYS WHICH WOULD IMPACT TRAFFIC FLOW, ARROW PANELS SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED AT NO ADDITIONAL COST FOR LANE CLOSURE.

3. THE PROVISIONS FOR TRAFFIC DISRUPTIONS WHICH ARE NOT ANTICIPATED IN THE TRAFFIC CONTROL PLAN, BUT WHICH ARE NECESSARY TO CONSTRUCT THE PROJECT, SHALL BE SUBMITTED IN WRITING TO THE ENGINEER AND APPROVAL SHALL BE OBTAINED 30 DAYS PRIOR TO THE COMMENCEMENT OF WORK. SUBMITTAL MATERIALS SHALL INCLUDE SKETCHES, CALCULATIONS, AND OTHER DATA REQUIRED BY THE ENGINEER.

4. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE CITY OF FORT PIERCE TRAFFIC OPERATIONS ENGINEER TO MODIFY CHANNELIZATIONS. THE CONTRACTOR SHALL MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE TRAFFIC OPERATIONS ENGINEER WITHOUT DELAY AND AT NO COST TO THE CITY.

5. THE CONTRACTOR SHALL COORDINATE ALL TEMPORARY DRIVEWAYS AND SIDE STREET CLOSURES WITH BUSINESS AND PROPERTY OWNERS. ACCESS TO ADJACENT BUSINESSES AND PROPERTY SHALL BE MAINTAINED AT ALL TIMES. TEMPORARY DRIVEWAY CONNECTIONS MAY BE CONSTRUCTED USING RAP (RECYCLED ASPHALT PAVEMENT) MATERIAL.

6. THE LENGTH OF OPEN TRENCH SHALL NOT EXCEED 450 FEET. 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.

7. THE CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION AT ALL TIMES BY USING EXISTING, PROPOSED AND TEMPORARY DRAINAGE SYSTEMS. THE COST OF FLUSHING UPON COMPLETION OF THE PROJECT, INSTALLING AND REMOVAL OF THE TEMPORARY DRAINAGE SYSTEMS SHALL BE INCLUDED IN PAY ITEM NO. 102-1, MAINTENANCE OF TRAFFIC. EXISTING DRAINAGE SHALL BE MAINTAINED TO THE NEXT DOWNSTREAM STRUCTURE.

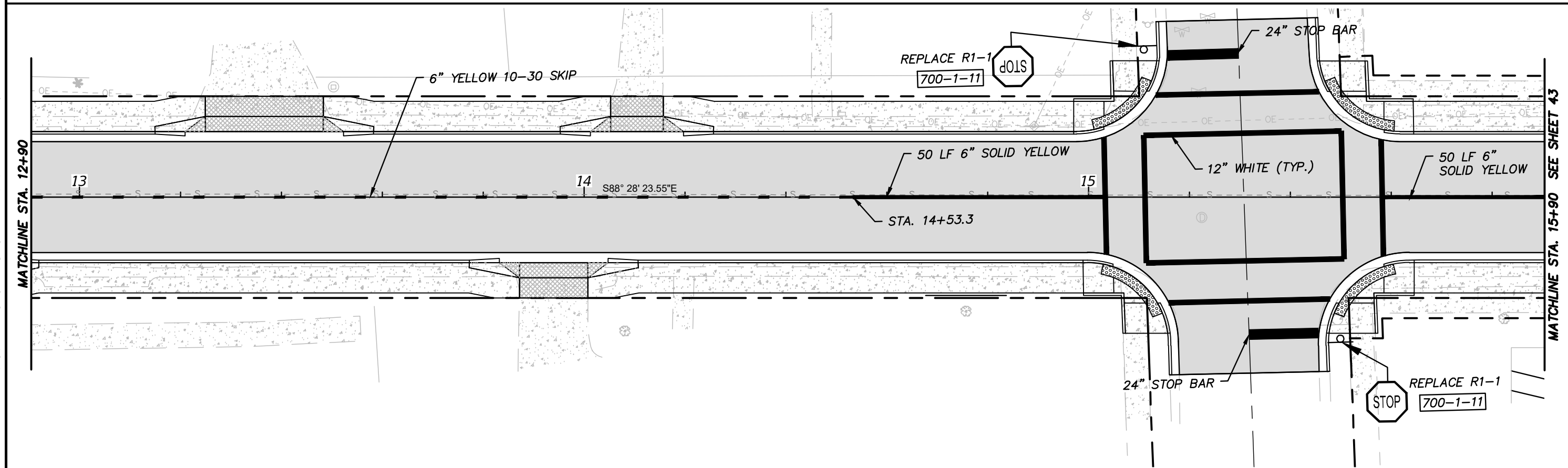
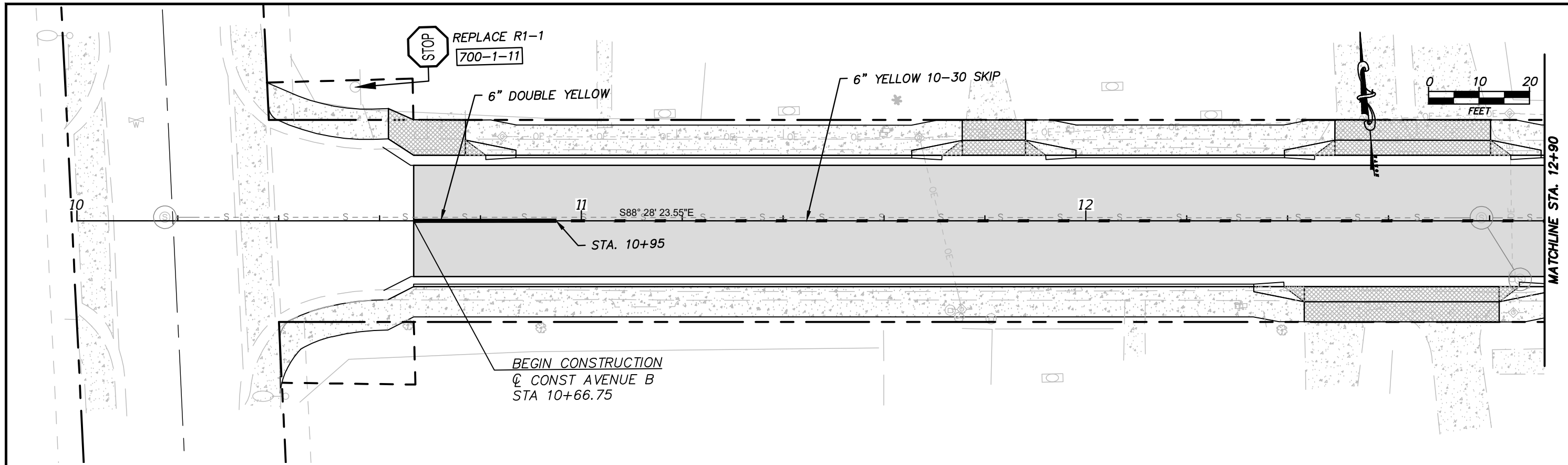
8. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING UTILITY SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. REFER TO THE GENERAL NOTES SHEET FOR THE APPROPRIATE UTILITY CONTACT INFORMATION.

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

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REVISIONS						C&T JOB NO. 20-121	 CULPEPPER & TERPENING INC <small>2980 SOUTH 25th STREET • FORT PIERCE, FLORIDA 34981 PHONE 772-464-3537 • FAX 772-464-9497 • www.ct-eng.com STATE OF FLORIDA BOARD OF PROFESSIONAL ENGINEERS AUTHORIZATION NO. 4286</small>	CITY OF FORT PIERCE		TRAFFIC CONTROL NOTES	SHEET NO. 41
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DESIGNED BY SKM		DRAWN BY ZJM 9-14-20	PROJECT NAME		
						CHECKED BY	CHECKED BY	AVENUE B RECONSTRUCTION	-----		
						ENGINEER OF RECORD: STEFAN K. MATTHES, P.E. NO. 38723					

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ASPHALT PAVEMENT
 CONCRETE SIDEWALK

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

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

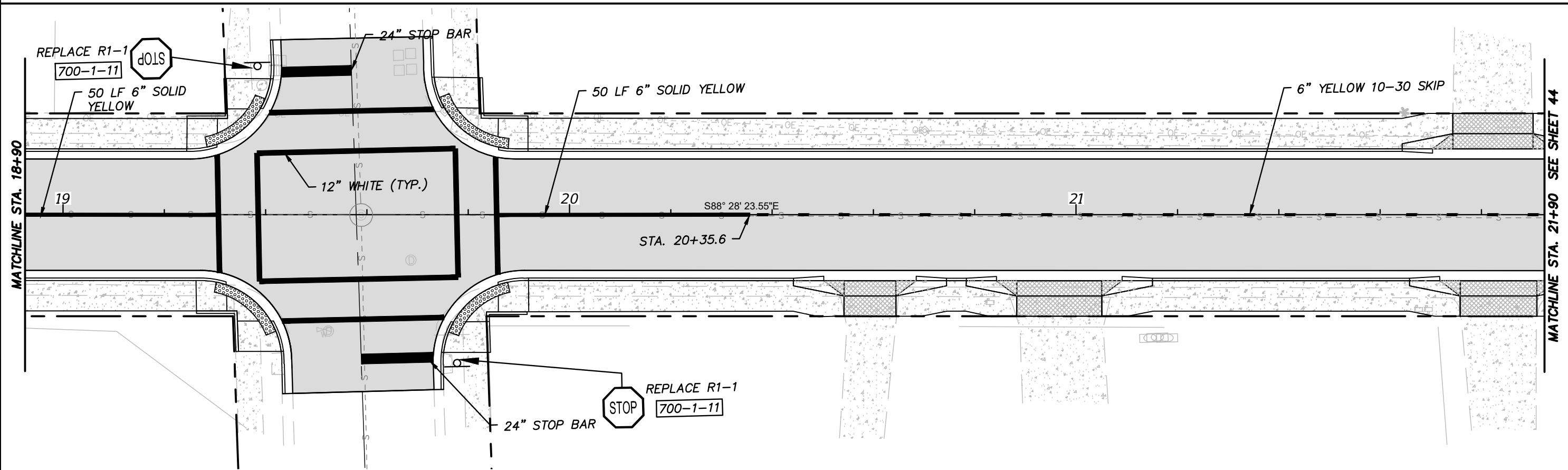
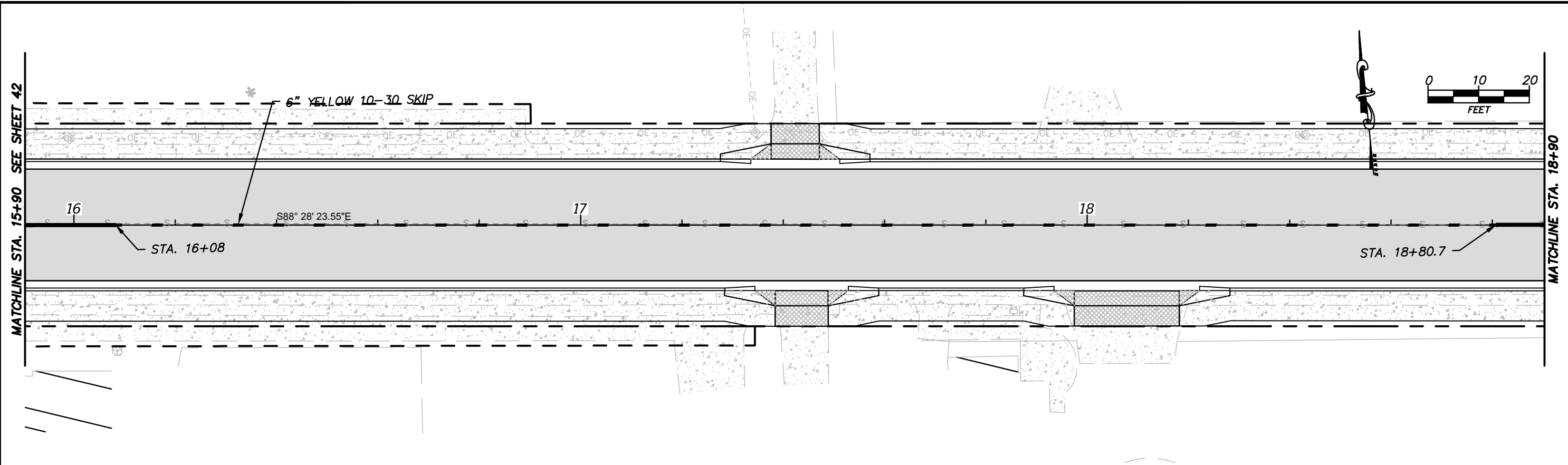
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 DESIGNED BY SKM DRAWN BY ZJM 9-14-20
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 ENGINEER OF RECORD:
 STEFAN K. MATTHES, P.E. NO. 38723

CITY OF FORT PIERCE	
PROJECT NAME	FINANCIAL PROJECT ID
AVENUE B RECONSTRUCTION	-----

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
 42

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CONCRETE SIDEWALK
 ASPHALT PAVEMENT

STEFAN K. MATTHES, P.E.
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C&T JOB NO. 20-121
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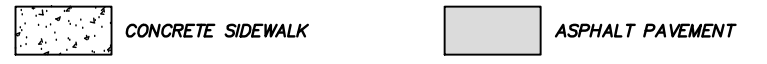
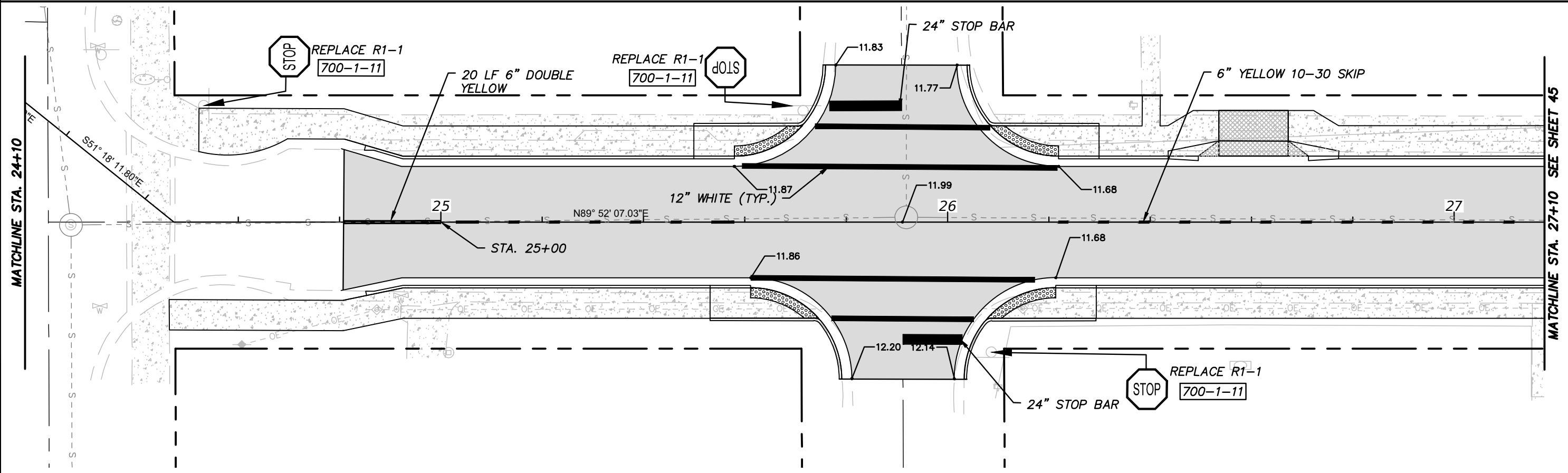
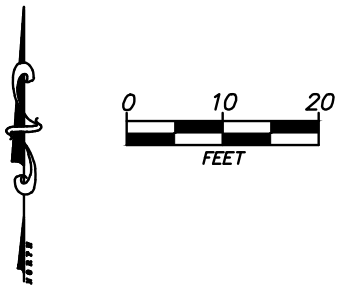
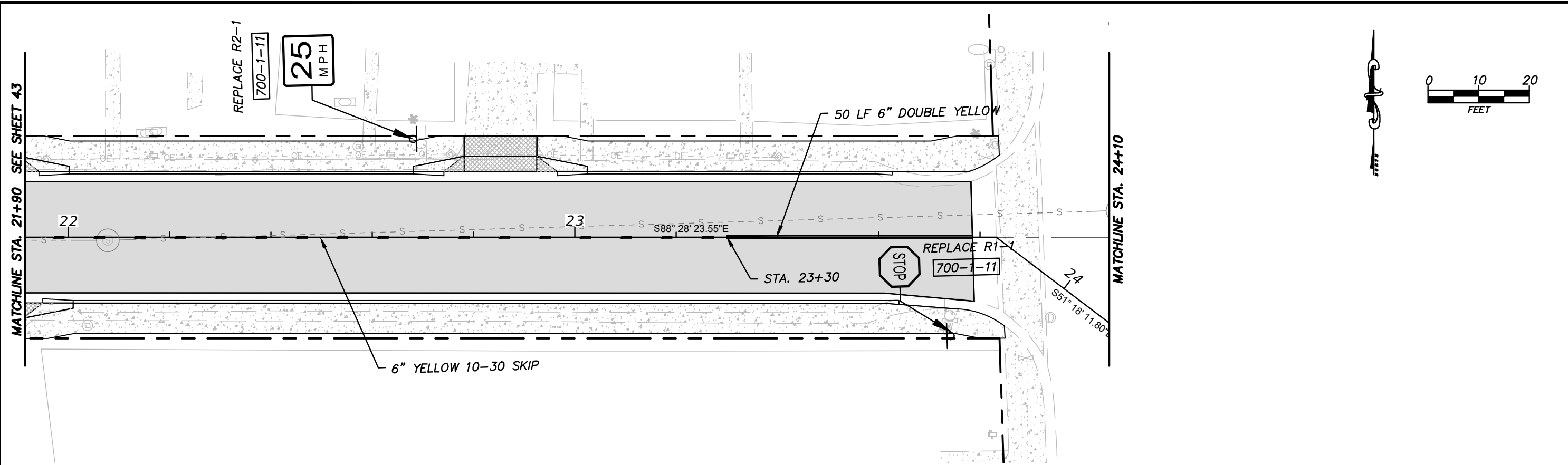
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CITY OF FORT PIERCE	
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AVENUE B RECONSTRUCTION	-----

SIGNING & PAVEMENT MARKING PLANS

SHEET NO.
 43

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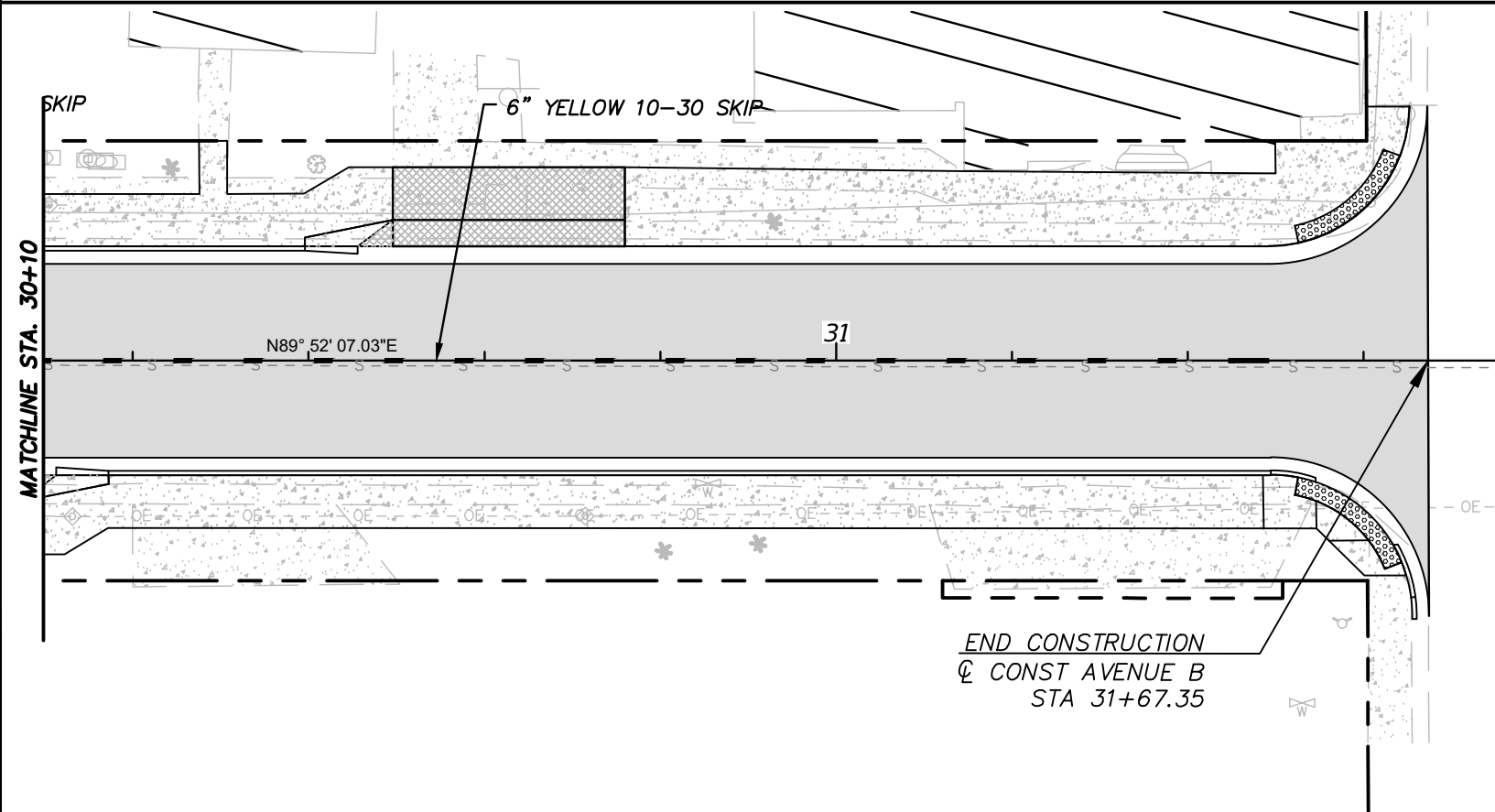
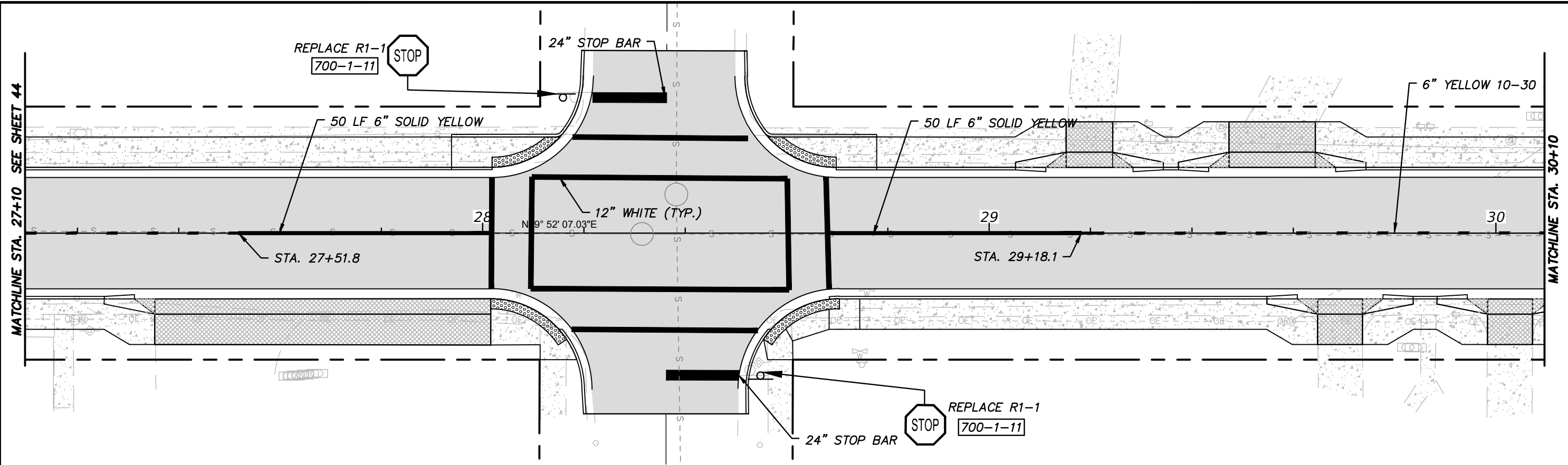
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SIGNING & PAVEMENT MARKING PLANS

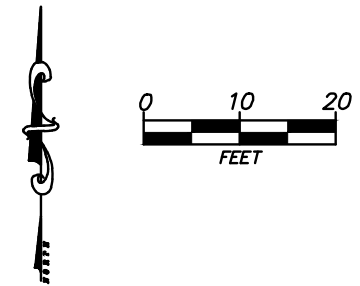
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GENERAL NOTES

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 STANDARD PLANS (FLORIDA DEPARTMENT OF TRANSPORTATION), DATED 2020-21.
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. REFLECTIVE PAVEMENT MARKERS (RPM) SHALL BE PLACED IN ACCORDANCE WITH FDOT INDEX NO. 706-001.



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SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	45
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