

COMPONENTS OF CONTRACT PLANS SET  
 ROADWAY PLANS  
 SIGNALIZATION PLANS  
 LIGHTING PLANS  
 27TH STREET UTILITY IMPROVEMENTS

A DETAILED INDEX APPEARS ON THE  
 KEY SHEET OF EACH COMPONENT



# CONTRACT PLANS

COUNTY PROJECT NO. 6096560, 6096260

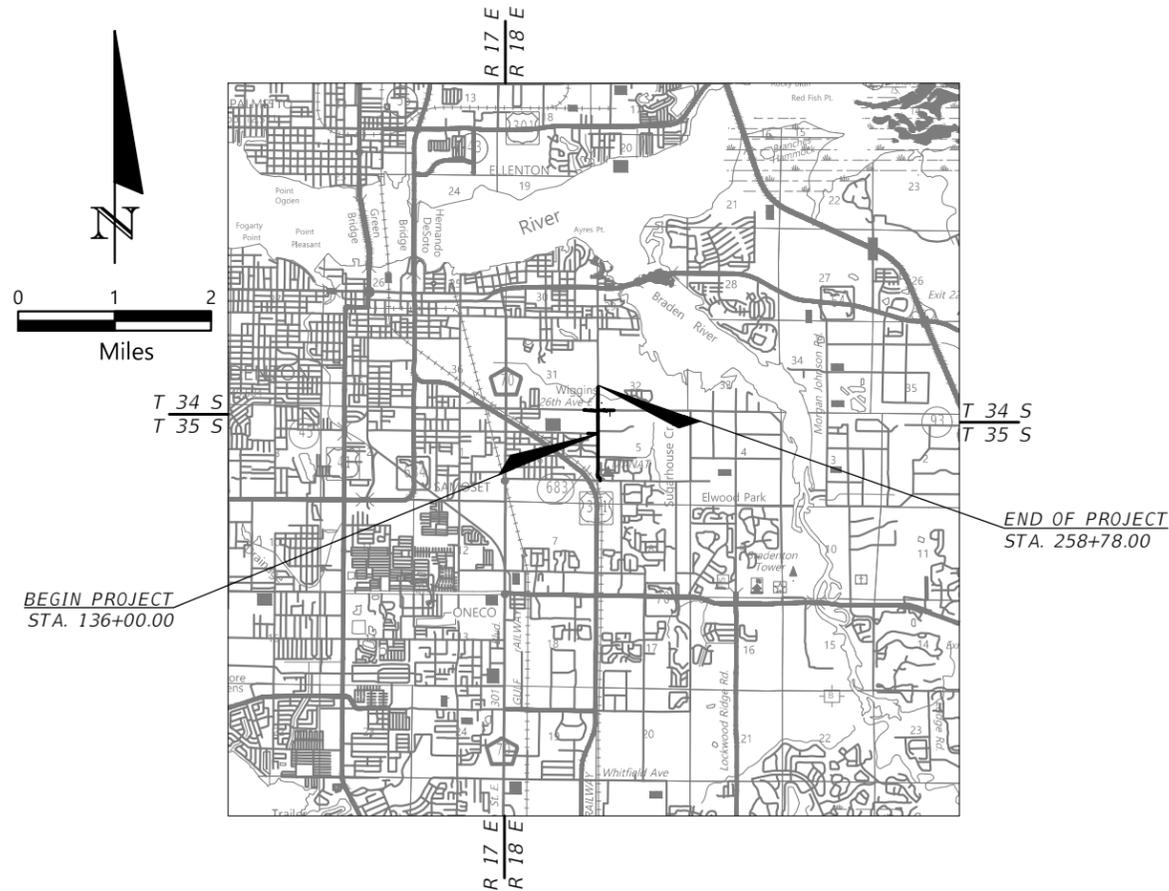
MANATEE COUNTY

27TH STREET EAST FROM  
 31ST AVENUE EAST TO 26TH AVENUE EAST  
 ROADWAY IMPROVEMENTS

MAY 2025

## INDEX OF ROADWAY PLANS

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	MCAAT SHELTER SLAB DETAILS (REFERENCE)



PLANS PREPARED BY:

HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD. SUITE 310  
 TAMPA, FL 33634  
 (813) 749-0823

CONTRACT NO. 6096560, 6096260

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

## FINAL SUBMITTAL

ROADWAY PLANS  
 ENGINEER OF RECORD:

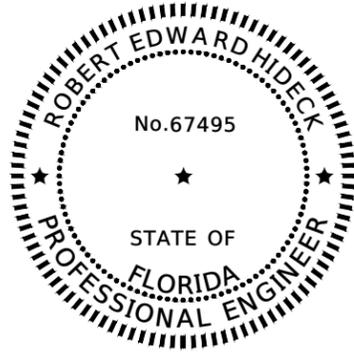
ROBERT EDWARD HIDECK, P.E.  
 P.E. NO.: 67495

FISCAL YEAR	SHEET NO.
24	1

MANATEE COUNTY PROJECT MANAGER: AL NEUMANN, P.E.

GOVERNING STANDARD PLANS:  
 Florida Department of Transportation, FY2020-21 Standard plans for  
 Road and Bridge Construction and applicable Interim Revisions (IRs).  
<http://www.fdot.gov/design/Standardplans.shtm>  
 Standard Plans for Road Construction and associated (IRs) are  
 available at the following website:

GOVERNING STANDARD SPECIFICATIONS:  
 Florida Department of Transportation, July, 2020 Standard  
 Specifications for Road and Bridge Construction at the following  
 website:  
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



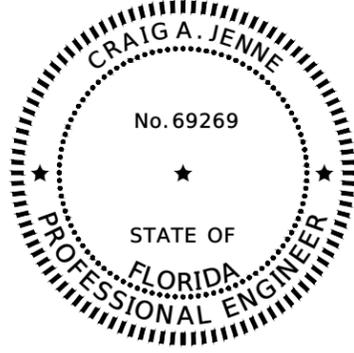
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HARDESTY & HANOVER, LLC  
5110 EISENHOWER BOULEVARD  
SUITE 310  
TAMPA, FL 33634  
ROBERT EDWARD HIDECK, P.E.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3-4	SUMMARY OF PAY ITEMS
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14	GENERAL NOTES
15-21	ROADWAY PLANS
22-29	PROFILE SHEETS
30	INTERSECTION DETAIL
48A-64	CROSS SECTIONS
66-72	SIGNING AND PAVEMENT MARKINGS
81	GUIDE SIGN WORKSHEET



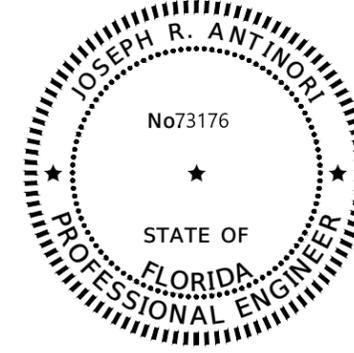
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HARDESTY & HANOVER, LLC  
5110 EISENHOWER BOULEVARD  
SUITE 310  
TAMPA, FL 33634  
CRAIG A. JENNE, P.E.

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SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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5	DRAINAGE MAPS
6	EXISTING DRAINAGE STRUCTURES
7	SUMMARY OF DRAINAGE STRUCTURES
31-41	DRAINAGE STRUCTURES
42-43	STORMWATER POLLUTION PREVENTION PLANS



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TIERRA, INC.  
7351 TEMPLE TERRACE HIGHWAY  
TAMPA, FL 33637  
JOSEPH R. ANTINORI, P.E.

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
44	SOIL SURVEY
45-47	ROADWAY SOIL PROFILES

NO.	REVISIONS	DATE	BY	SCALE	DESIGN ENGINEER	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Benjamin Bower	FL. LICENSE NO.	<b>SIGNATURE SHEET</b>	SHEET NO.
				AS NOTED	ROBERT EDWARD HIDECK, P.E.	MAY 2025		67495		2
				DESIGNED BY	ROBERT EDWARD HIDECK, P.E.	PROJECT NO.				
				DRAWN BY	FL. LICENSE NO.	6096560				
				CHECKED BY						

27TH STREET EAST FROM 26TH AVENUE EAST TO 38TH AVENUE EAST			
ROADWAY WIDENING FUNCTIONAL IMPROVEMENTS			
MANATEE COUNTY PROJECT NO. 6096560, 6096260			
Pay Item	Description	Quantity	Unit
ROADWAY QUANTITIES			
101 1	MOBILIZATION	1	LS
102 1	MAINTENANCE OF TRAFFIC	1	LS
110 1 1	CLEARING & GRUBBING	4.28	AC
110 4 10	REMOVAL OF EXISTING CONCRETE	1425	SY
120 1	REGULAR EXCAVATION	3493.2	CY
120 4	SUB SOIL EXCAVATION	7683.7	CY
120 6	EMBANKMENT	2550.7	CY
0160 4	TYPE B STABILIZATION	6344	SY
285709	OPTIONAL BASE, BASE GROUP 09	14083	SY
285701	OPTIONAL BASE, BASE GROUP 01	574	SY
0327 70 4	MILLING EXIST ASPH PAVT, 3" AVG DEPTH	10098	SY
327 70 6	MILLING EXIST ASPH PAVT, 1.5" AVG DEPTH	-	SY
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22, 1.5", S-I	1098.3	TN
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22, 1.5", S-III	1478.5	TN
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22, 2.25", S-I	997.28	TN
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG76-22, 2.5" AVG. , S-III, OVERBUILD	492.6	TN
401 0 30	CONCRETE CLASS I, ENDWALLS	-	CY
520 1 10	CONCRETE CURB TYPE F	3250	LF
520 1 11	CONCRETE CURB TYPE AB	-	LF
520 3	CONCRETE CURB MIAMI	-	LF
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	1167	LF
520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	640	LF
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	2237	SY
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	49	SY
527 2	DETECTABLE WARNINGS	205	SF
570 1 2	PERFORMANCE TURF/SOD	4545.8	SY

27TH STREET EAST FROM 26TH AVENUE EAST TO 38TH AVENUE EAST			
ROADWAY WIDENING FUNCTIONAL IMPROVEMENTS			
MANATEE COUNTY PROJECT NO. 6096560, 6096260			
Pay Item	Description	Quantity	Unit
SIGNING AND PAVEMENT QUANTITIES			
710 11 101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	2.758	GM
710 11 123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 12"	655	LF
710 11 124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 18"	504	LF
710 11 125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 24"	656	LF
710 11 141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2'-4' DOTTED GUIDELINE/6'-10' DOTTED EXTENSION , 6"	0.169	GM
710 11 160	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	4	EA
710 11 170	PAINTED PAVEMENT MARKINGS, WHITE ARROWS	33	EA
710 11 201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	1.200	GM
710 11 224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 18"	552	LF
710 11 231	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	-	GM
710 11 241	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, 2'-4' DOTTED GUIDELINE/6'-10' DOTTED EXTENSION, 6"	0.01	GM
710 11 290	PAINTED PAVEMENT MARKINGS, YELLOW ISLAND NOSE	37	SF
700 1 11	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	21	AS
700 1 50	SINGLE POST SIGN, RELOCATE	3	AS
700 1 60	SINGLE POST SIGN, REMOVE	7	AS
700 2 12	MULTI- POST SIGN, F&I, GROUND MOUNT, 12-20 SF	4	AS
706 1 3	REFLECTIVE PAVEMENT MARKERS, Y/Y	229	EA
706 1 3	REFLECTIVE PAVEMENT MARKERS, W/R	155	EA
706 1 3	REFLECTIVE PAVEMENT MARKERS, MD/Y	70	EA
711 11 123	THERMOPLASTIC, STANDARD, WHITE SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	655	LF
711 11 124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	504	LF
711 11 125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR CROSSWALK	656	LF
711 11 141	THERMOPLASTIC, STANDARD, WHITE, SOLID, 2'-4' DOTTED GUIDELINE, 6"	0.169	GM
711 11 224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONALS AND CHEVRONS	552	LF
711 11 160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	4	EA
711 11 241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	0.010	GM
711 14 170	THERMOPLASTIC, STANDARD, WHITE, ARROW	33	EA
711 16 101	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	2.758	GM
711 16 201	THERMOPLASTIC, STANDARD, OTHER SURFACES, YELLOW, SOLID, 6"	1.200	GM
714 10	GREEN-COLORED PAVEMENT MARKINGS, BIKE LANE	3162	SF

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	PROJECT NO.	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC	MAY 2025	6096560	ROBERT EDWARD HIDECK, P.E.	<b>SUMMARY OF PAY ITEMS (1)</b>
					5110 EISENHOWER BLVD.			FL. LICENSE NO.	
					SUITE 310			67495	
					TAMPA, FL 33634				
					(813)749-0823				3



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

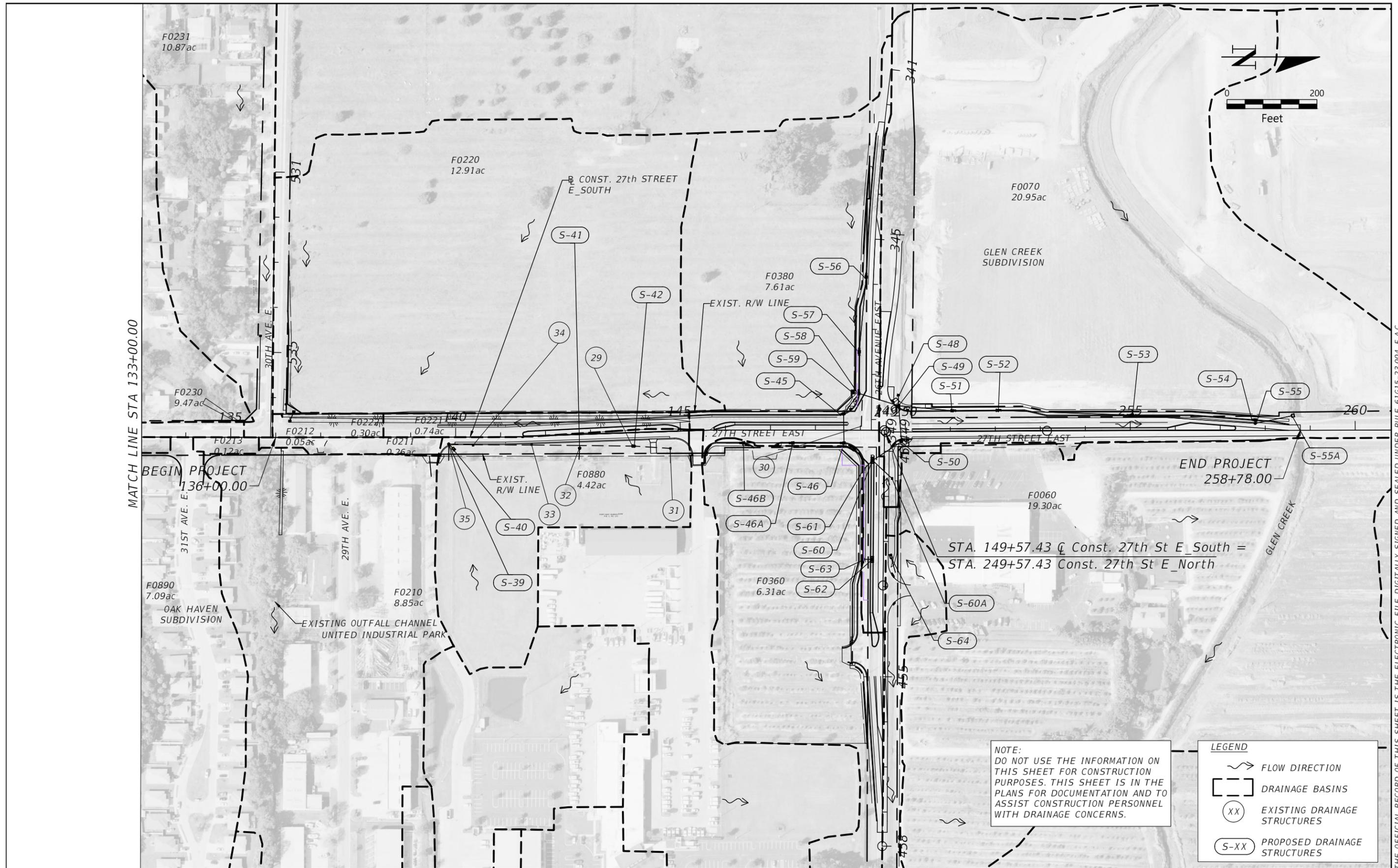
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27TH STREET EAST FROM 26TH AVENUE EAST TO 38TH AVENUE EAST			
ROADWAY WIDENING FUNCTIONAL IMPROVEMENTS			
MANATEE COUNTY PROJECT NO. 6096560, 6096260			
Pay Item	Description	Quantity	Unit
DRAINAGE QUANTITIES			
0104 1	ARTIFICIAL COVERINGS /ROLLED EROSION CONTROL PRODUCTS	60	SY
0104 10 3	SEDIMENT BARRIER	2850	LF
0104 11	FLOATING TURBIDITY BARRIER	-	LF
0104 15	SOIL TRACKING PREVENTION DEVICE	1	EA
0104 18	INLET PROTECTION SYSTEM	21	EA
0425 1331	INLETS, CURB, TYPE P-3, <10'	1	EA
0425 1341	INLETS, CURB, TYPE P-4, <10'	-	EA
0425 1351	INLETS, CURB, TYPE P-5, <10'	8	EA
0425 1361	INLETS, CURB, TYPE P-6, <10'	2	EA
0425 1431	INLETS, CURB, TYPE J-3, <10'	-	EA
0425 1441	INLETS, CURB, TYPE J-4, <10'	1	EA
0425 1451	INLETS, CURB, TYPE J-5, <10'	3	EA
0425 1471	INLETS, CURB, TYPE 7, <10'	2	EA
0425 1521	INLETS, DT BOT, TYPE C,<10'	2	EA
0425 1523	INLETS, DT BOT, TYPE C, JBOT, <10'	-	EA
0425 1531	INLETS, DT BOT, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	-	EA
0425 1533	INLETS, DT BOT, TYPE C MODIFIED- BACK OF SIDEWALK, J BOT, <10'	-	EA
0425 1541	INLETS, DT BOT, TYPE D, <10'	-	EA
0425 1561	INLETS, DT BOT, TYPE F, <10'	1	EA
0425 2 41	MANHOLES, P-7, <10'	1	EA
0425 2 71	MANHOLES, J-7, <10'	1	EA
0425 11	MODIFY EXISTING DRAINAGE STRUCTURE	-	EA
0530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING	2.2	TN

27TH STREET EAST FROM 26TH AVENUE EAST TO 38TH AVENUE EAST			
ROADWAY WIDENING FUNCTIONAL IMPROVEMENTS			
MANATEE COUNTY PROJECT NO. 6096560, 6096260			
Pay Item	Description	Quantity	Unit
DRAINAGE QUANTITIES			
430175115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	33	LF
430175118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	718	LF
430175124	PIPE CULVERT, OPTIONAL MATERIAL ,ROUND, 24"S/CD	178	LF
430175130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"S/CD	-	LF
430175218	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 18" S/CD	239	LF
430175224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24" S/CD	141	LF
430175230	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 30" S/CD	779	LF
430175236	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 36" S/CD	81	LF
430175242	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 42" S/CD	-	LF
430175248	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 48" S/CD	-	LF
430175260	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 60" S/CD	-	LF
430524120	STRAIGHT CONCRETE ENDWALLS, 24", SINGLE, 30 DEGREES, ROUND	-	EA
430548200	STRAIGHT CONCRETE ENDWALLS, 48", SINGLE, 0 DEGREES, ELLIPTICAL	-	EA
430560200	STRAIGHT CONCRETE ENDWALLS, 60", SINGLE, 0 DEGREES, ELLIPTICAL	-	EA
430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	2	EA
430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	1	EA
430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	-	EA
430982623	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 15" CD	1	EA
430982638	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 36" CD	1	EA
430982640	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 42" CD	-	EA
430982643	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 60" CD	-	EA

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Benjamin Bower	DESIGN ENGINEER	<i>SUMMARY OF PAY ITEMS (2)</i>	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	MAY 2025		ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO.		4
					BJB	PROJECT NO.		67495		
					BJB	6096560				
					REH					

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NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	CRAIG A. JENNE, P.E.	5
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				ZSG	6096260	69269	
				DRAWN BY			
				BJB			
				CHECKED BY			
				JWD			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823



**DRAINAGE MAP (1)**

- ① SIDE DRAIN  
12" RCP  
N. INV. EL=28.16'  
S. INV. EL=27.59'
- ② SIDE DRAIN  
12" RCP  
N. INV. EL=26.52'  
N. INV. EL=26.29'
- ③ GRATE INLET  
GRATE EL=25.90'  
12" RCP  
S. INV. EL=24.19'  
S. INV. EL=24.06
- ④ HEADWALL  
12" RCP  
N. INV. EL=21.37'
- ⑤ HEADWALL  
15" RCP  
S. INV. EL=20.04'
- ⑥ GRATE INLET  
GRATE EL=19.67'  
WIND. EL=18.74'  
18" RCP  
N. INV. EL=16.89'  
15" RCP  
S. INV. EL=16.42'  
24" RCP  
W. INV. EL=16.38'  
24" RCP  
N.E. INV. EL=19.66'
- ⑦ MES  
15" RCP  
N. INV. EL=16.23'  
S. INV. EL=16.15'
- ⑧ MES  
14"x23" RCP  
N. INV. EL=15.29'  
S. INV. EL=15.23'
- ⑨ MES  
12" PVC  
S. INV. EL=13.50'
- ⑩ GRATE INLET  
GRATE EL=14.66'  
18" RCP  
N. INV. EL=12.16'  
18" RCP  
S. INV. EL=12.17'
- ⑪ GRATE INLET  
GRATE EL=14.66'  
18" RCP  
N. INV. EL=12.00'  
18" RCP  
S. INV. EL=12.01'
- ⑫ JUNCTION BOX  
TOP EL=15.05'  
18" RCP  
N. INV. EL=11.90'  
15" RCP  
S. INV. EL=11.90'  
15" RCP  
N.W. INV. EL=11.93'
- ⑬ GRATE INLET  
GRATE EL=14.85'  
15" RCP  
N. INV. EL=11.34'  
18" RCP  
S. INV. EL=11.33'
- ⑭ GRATE INLET  
GRATE EL=14.65'  
18" RCP  
N. INV. EL=11.01'  
18" RCP  
S.E. INV. EL=10.93'
- ⑮ GRATE INLET  
GRATE EL=15.07'  
(2) 36" RCP  
W. INV. EL=9.68'  
S. INV. EL=9.91'
- ⑯ GRATE INLET  
GRATE EL=15.90'  
36" RCP  
N. WIND. EL=15.23'  
42" RCP  
S. WIND. EL=15.20'
- ⑰ 4'x5.4' CULVERT  
BOTTOM EL=11.34'
- ⑱ INLET w/JB  
TOP EL=16.87'  
42" RCP  
N. WIND. EL=15.87'  
24" RCP  
S. WIND. EL=15.87'
- ⑲ GRATE INLET  
GRATE EL=14.59'  
14"x22" RCP  
N. INV. EL=12.49'  
18" RCP  
S. INV. EL=12.50'
- ⑳ YARD DRAIN  
DRAIN EL=14.19'
- ㉑ GRATE INLET  
GRATE EL=14.59'  
18" RCP  
N.W. INV. EL=12.61'  
14"x22" RCP  
S. INV. EL=12.61'  
18" RCP  
N. INV. EL=12.62'
- ㉒ MES  
18" RCP  
N.W. INV. EL=12.60'
- ㉓ GRATE INLET  
GRATE EL=14.80'  
18" RCP  
S. INV. EL=12.72'
- ㉔ GRATE INLET  
GRATE EL=14.49'  
12" RCP  
N. INV. EL=11.99'
- ㉕ MES  
12"x18" RCP  
S. INV. EL=10.00'
- ㉖ GRATE INLET  
GRATE EL=14.10'  
24" RCP  
N. INV. EL=10.25'  
12"x18" RCP  
S. INV. EL=10.37'
- ㉗ GRATE INLET  
GRATE EL=13.06'  
24" RCP  
N. INV. EL=9.26'  
24" RCP  
S. INV. EL=9.21'  
36" RCP  
W. INV. EL=9.26'
- ㉘ JUNCTION BOX  
RIM EL=13.33'  
18" RCP  
N. INV. EL=8.73'  
14"x22" RCP  
W. INV. EL=9.23'  
36" RCP  
E. INV. EL=8.63'  
24" RCP  
S. INV. EL=9.23'
- ㉙ GRATE INLET  
GRATE EL=12.56'  
15" RCP  
N. INV. EL=11.14'  
18" RCP  
S. INV. EL=11.85'
- ㉚ CATCH BASIN  
W. WIND. EL=12.57'
- ㉛ GRATE INLET  
GRATE EL=12.97'  
8" PVC  
E. INV. EL=11.66'  
15" RCP  
S. INV. EL=11.54'
- ㉜ CATCH BASIN  
TOP EL=13.09'  
18" RCP  
N. INV. EL=10.79'  
15" RCP  
S. INV. EL=10.81'  
WEIR EL=12.49'
- ㉝ GRATE INLET  
GRATE EL=12.65'  
(2) 18" RCP  
N. INV. EL=10.57'  
S. INV. EL=10.58'
- ㉞ GRATE INLET  
GRATE EL=12.79'  
(2) 18" RCP  
N. INV. EL=10.36'  
S. INV. EL=10.37'
- ㉟ JUNCTION BOX  
TOP EL=13.03'  
18" RCP  
N. INV. EL=10.23'  
24" RCP  
S. INV. EL=10.21'  
12" RCP  
E. INV. EL=10.63'
- ㊱ CATCH BASIN  
TOP EL=13.22'  
THROAT EL=7.09'  
24" RCP N. EL=9.02'
- ㊲ OUTFALL STRUCTURE  
EL=11.96' (4'x4')
- ㊳ CATCH BASIN  
THROAT EL=12.93'  
W. INV. EL=6.41'
- ㊴ MES  
14"x22" RCP  
N. INV. EL=11.72'  
S. INV. EL=12.05'
- ㊵ MES  
14"x22" RCP  
N. INV. EL=11.17'  
S. INV. EL=14.44'
- ㊶ CATCH BASIN  
TOP EL=14.38'  
WIND. EL=13.36'  
THROAT EL=14.36'  
WIND. INV. EL=11.33'
- ㊷ MES  
30" RCP  
N. INV. EL=14.39'
- ㊸ JUNCTION BOX  
TOP EL=20.06'  
30" RCP  
N. INV. EL=14.71'  
24" RCP  
S.W. INV. EL=14.71'  
12"x18" RCP  
S. INV. EL=14.81'
- ㊹ HEADWALL  
12"x18" RCP  
S. INV. EL=19.04'
- ㊺ MES 18" RCP  
S.E. INV. EL=22.97'
- ㊻ GRATE INLET  
GRATE EL=26.01'  
18" RCP  
INV. EL=23.05'
- ㊼ MES  
WEST 12" PP  
N.W. INV. EL=26.05'  
S.E. INV. EL=26.13'
- ㊽ MES  
EAST 12" PP  
N.W. INV. EL=26.06'  
S.E. INV. EL=26.12'
- ㊾ GRATE INLET  
TOP EL=27.66'  
(2) 18" RCP  
INV. EL=24.20'
- ㊿ MES 18" RCP  
S.W. INV. EL=23.90'
- ① MES 18" RCP  
N.E. INV. EL=23.91'
- ② (2) 12" PVC  
E. INV EL =14.31'  
W. INV EL = 14.47'
- ③ HEADWALL  
5'x10' BOX CULVERT  
INV. EL = 9.28'

STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD				GREATEST FLOOD			
		4% Prob.	25 Yr. Freq.	1% Prob.	100 Yr. Freq.	Discharge	Stage	Prob %	Freq. Yr.	Discharge	Stage	0.2% Prob %	500 Yr. Freq.
		Discharge	Stage	Discharge	Stage								
S-8B	120+35	110.60	16.25	111.30	16.70	111.38	16.75	0.85	118.00	N/A	N/A	N/A	N/A
S-9A	122+50	194.00	15.47	206.60	15.79	213.97	15.98	0.44	225.00	N/A	N/A	N/A	N/A

**NOTE:**  
THE HYDRAULIC DATA IS SHOWN FOR INFORMATIONAL PURPOSES ONLY, TO INDICATE THE FLOOD DISCHARGES AND WATER SURFACE ELEVATIONS WHICH MAY BE ANTICIPATED IN ANY GIVEN YEAR. THIS DATA WAS GENERATED USING HIGHLY VARIABLE FACTORS DETERMINED BY A STUDY OF THE WATERSHED. MANY JUDGMENTS AND ASSUMPTIONS ARE REQUIRED TO ESTABLISH THESE FACTORS. THE RESULTANT HYDRAULIC DATA IS SENSITIVE TO CHANGES, PARTICULARLY OF ANTECEDENT CONDITIONS, URBANIZATION, CHANNELIZATION, AND LAND USE. USERS OF THIS DATA ARE CAUTIONED AGAINST THE ASSUMPTION OF PRECISION WHICH CANNOT BE ATTAINED. DISCHARGES ARE IN CUBIC FEET PER SECOND (CFS) AND STAGES ARE IN FEET, NAVD 88.

**DEFINITIONS:**  
DESIGN FLOOD: THE FLOOD SELECTED BY FDOT TO BE UTILIZED TO ASSURE A STANDARD LEVEL OF HYDRAULIC PERFORMANCE.  
BASE FLOOD: THE FLOOD HAVING A 1% CHANCE OF BEING EXCEEDED IN ANY GIVEN YEAR. (100 YEAR FREQUENCY)  
OVERTOPPING FLOOD: THE FLOOD WHERE FLOW OCCURS (A) OVER THE HIGHWAY (b) OVER THE WATERSHED DIVIDE OR (C) THRU EMERGENCY RELIEF STRUCTURES.  
GREATEST FLOOD: THE MOST SEVERE FLOOD WHICH CAN BE PREDICTED WHERE OVERTOPPING IS NOT PRACTICABLE, NORMALLY ONE WITH A 0.2% CHANCE OF BEING EXCEEDED IN ANY YEAR. (500 YEAR FREQUENCY)

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	CRAIG A. JENNE, P.E.	EXISTING DRAINAGE STRUCTURES
				DESIGNED BY ZSG	PROJECT NO. 6096260	FL. LICENSE NO. 69269	
				DRAWN BY BJB			6
				CHECKED BY JWD			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823



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

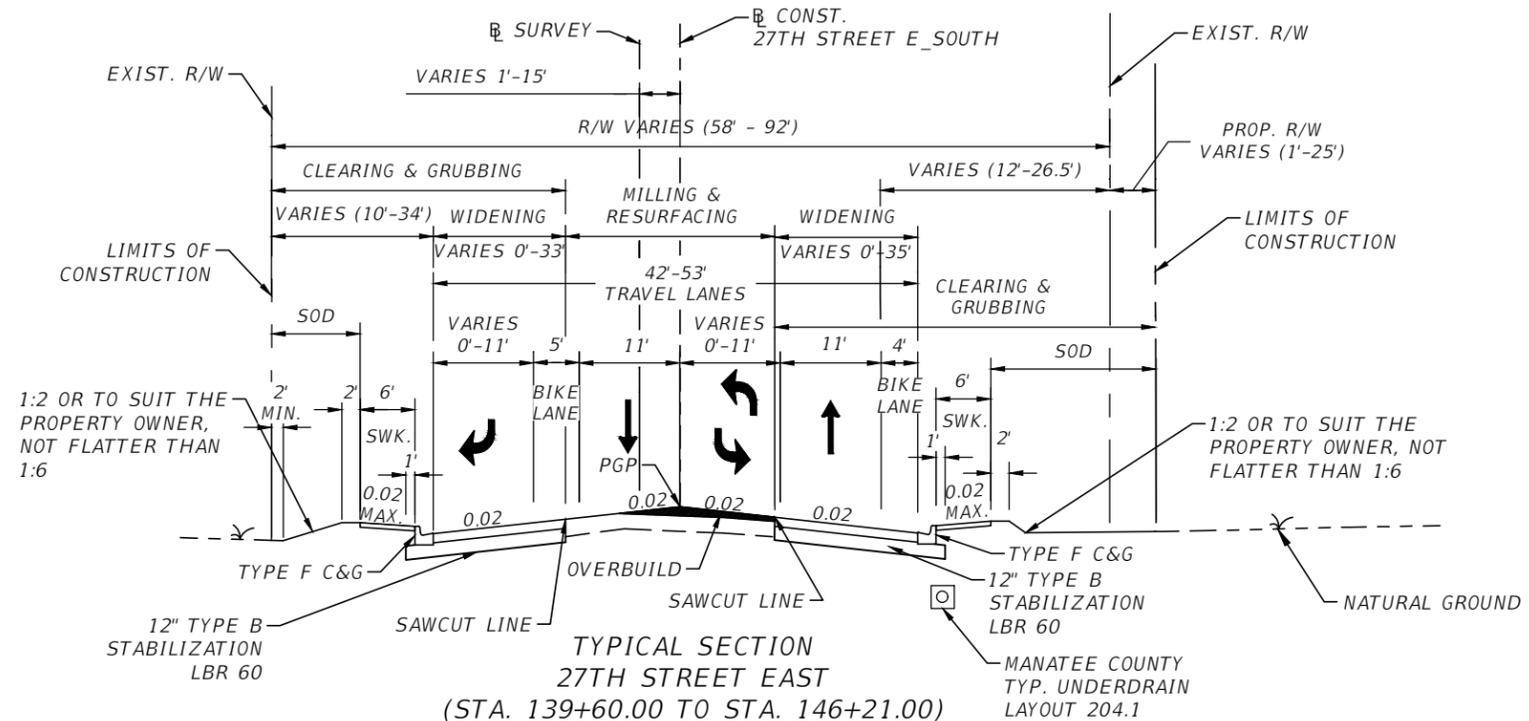
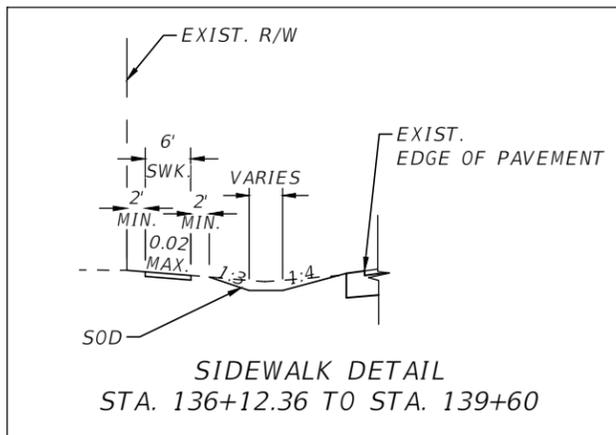
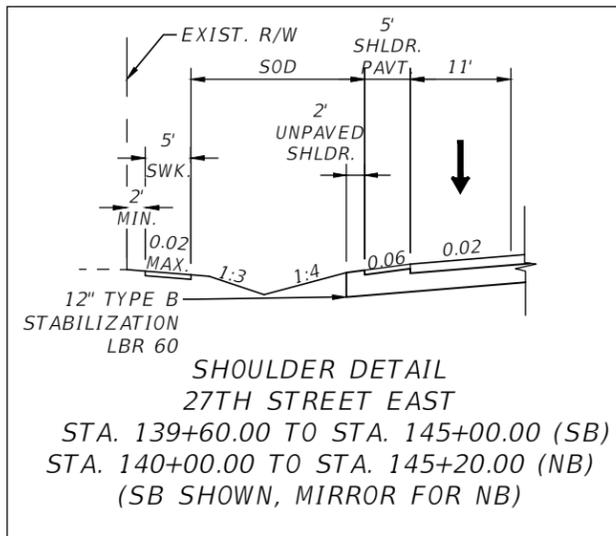
Benjamin Bower

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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





**TRAFFIC DATA**  
DESIGN YEAR = 2042 AADT = 20,382  
K = 9% D = 50% T = 9.5% (24 HOUR)  
DESIGN HOUR T = 9.5%  
DESIGN SPEED = 30 MPH  
POSTED SPEED = 30 MPH

**EXISTING TRAVEL LANES**  
MILL EXISTING ASPHALT PAVEMENT  
(DEPTH VARIES, 1 1/2" - 3", SEE OVERBUILD DETAIL)  
OVERBUILD TYPE S-I STRUCTURAL COURSE (THICKNESS VARIES)  
TYPE S-I STRUCTURAL COURSE (1 1/2")  
AND TYPE S-III STRUCTURAL COURSE (1 1/2")

**WIDENING**  
OPTIONAL BASE GROUP 9 (TYPE B-12.5) WITH  
TYPE S-I STRUCTURAL COURSE (2 1/4")  
AND TYPE S-III STRUCTURAL COURSE (1 1/2")

**NEW SHOULDER**  
OPTIONAL BASE GROUP 1 WITH  
TYPE S-III STRUCTURAL COURSE (1 1/2")

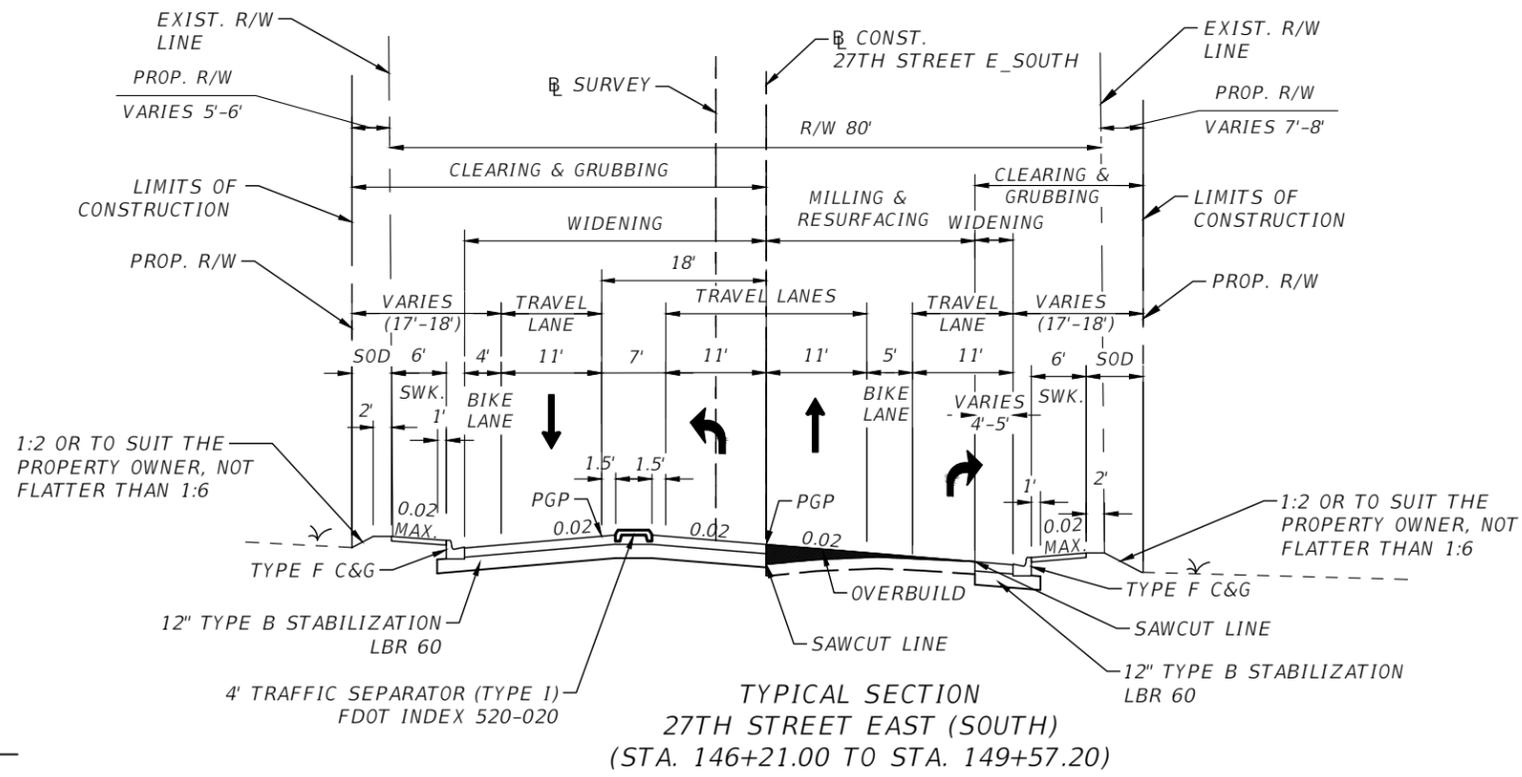
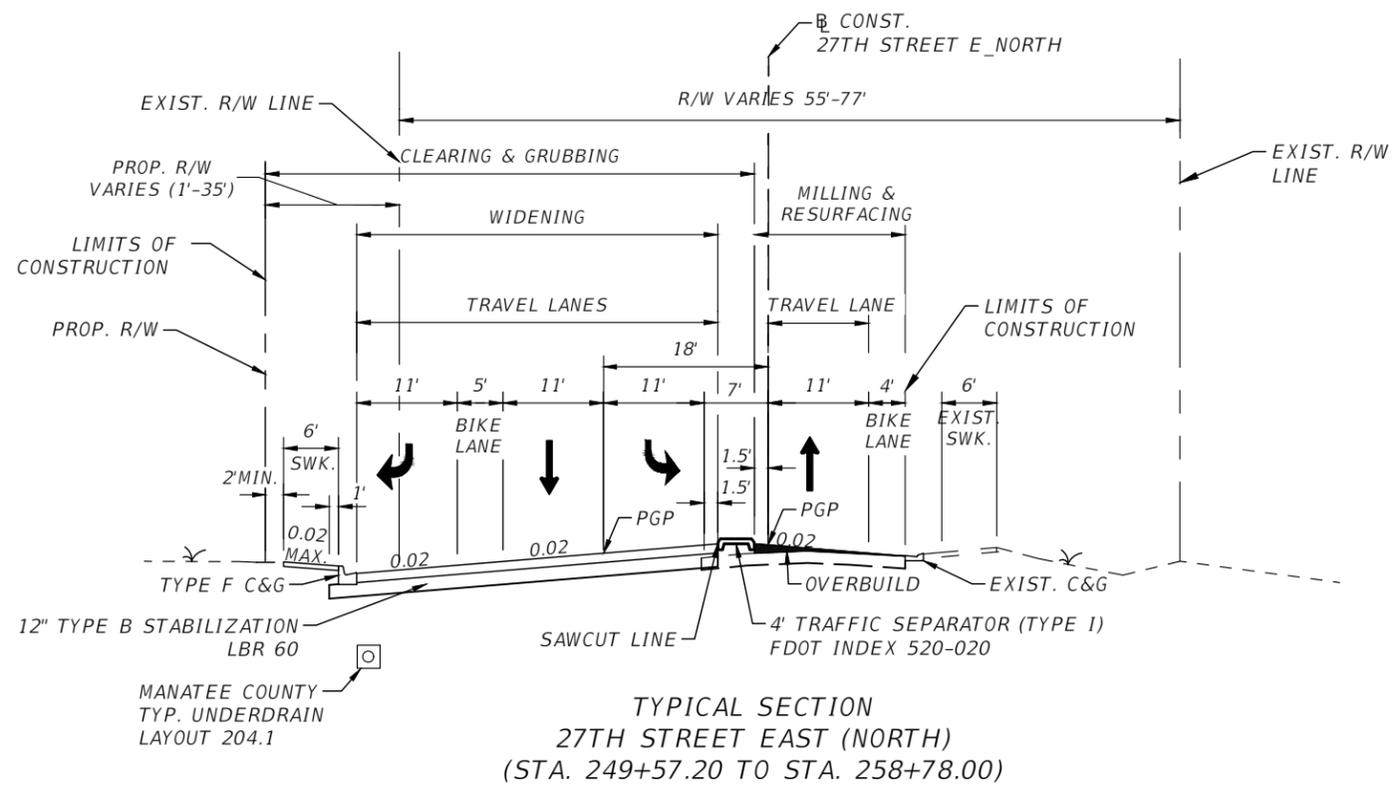
**OVERBUILD**  
TYPE S-III OVERBUILD LAYER  
(DEPTH VARIES)

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	8
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096560	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			



**TYPICAL SECTION (1)**

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**TRAFFIC DATA**

DESIGN YEAR = 2042 AADT = 20,382  
 K = 9% D = 50% T = 9.5% (24 HOUR)  
 DESIGN HOUR T = 9.5%  
 DESIGN SPEED = 30 MPH  
 POSTED SPEED = 30 MPH

**EXISTING TRAVEL LANES**  
 MILL EXISTING ASPHALT PAVEMENT (3" DEPTH)  
 OVERBUILD TYPE S-I STRUCTURAL COURSE (THICKNESS VARIES)  
 TYPE S-I STRUCTURAL COURSE (1 1/2")  
 AND TYPE S-III STRUCTURAL COURSE (1 1/2")

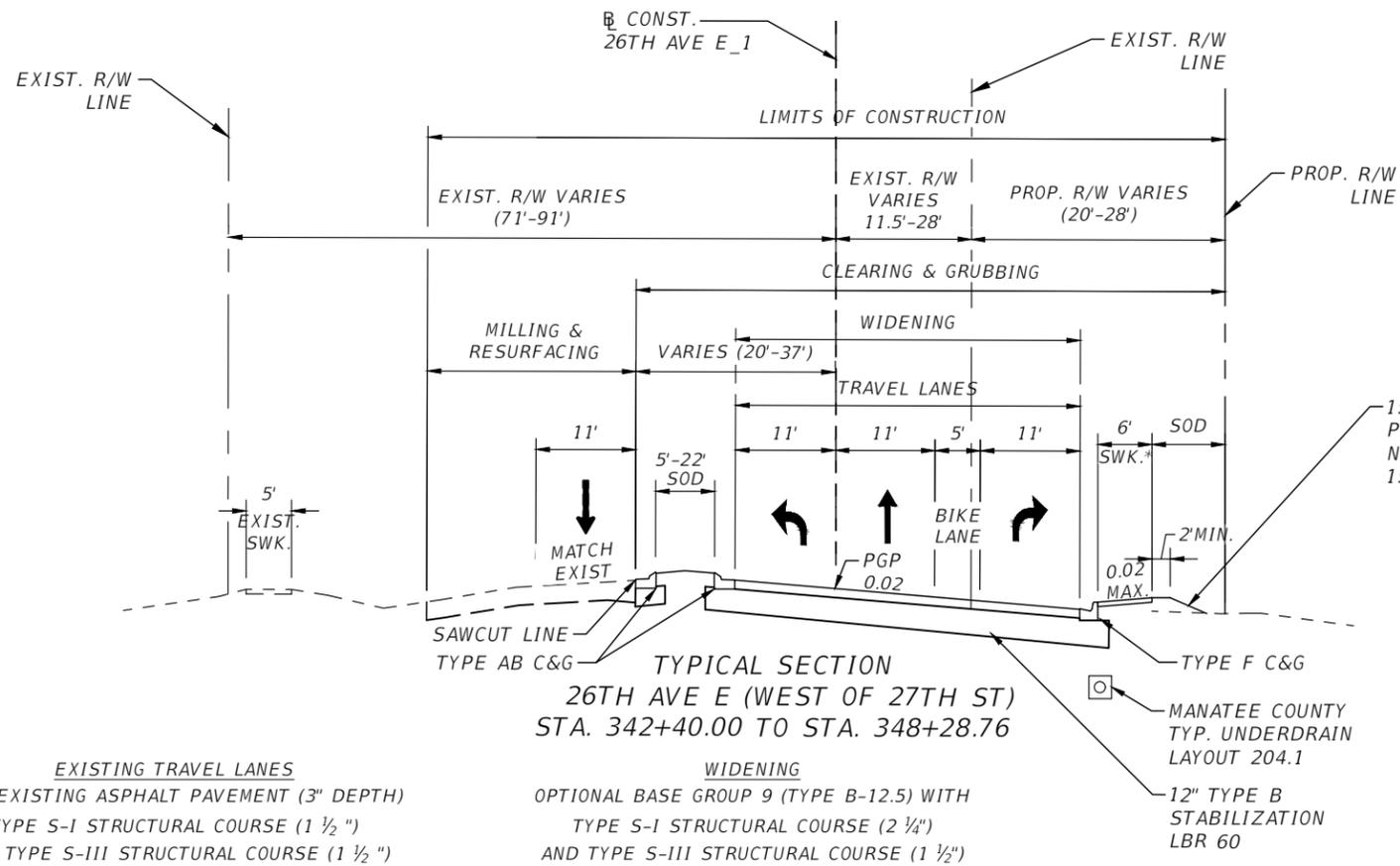
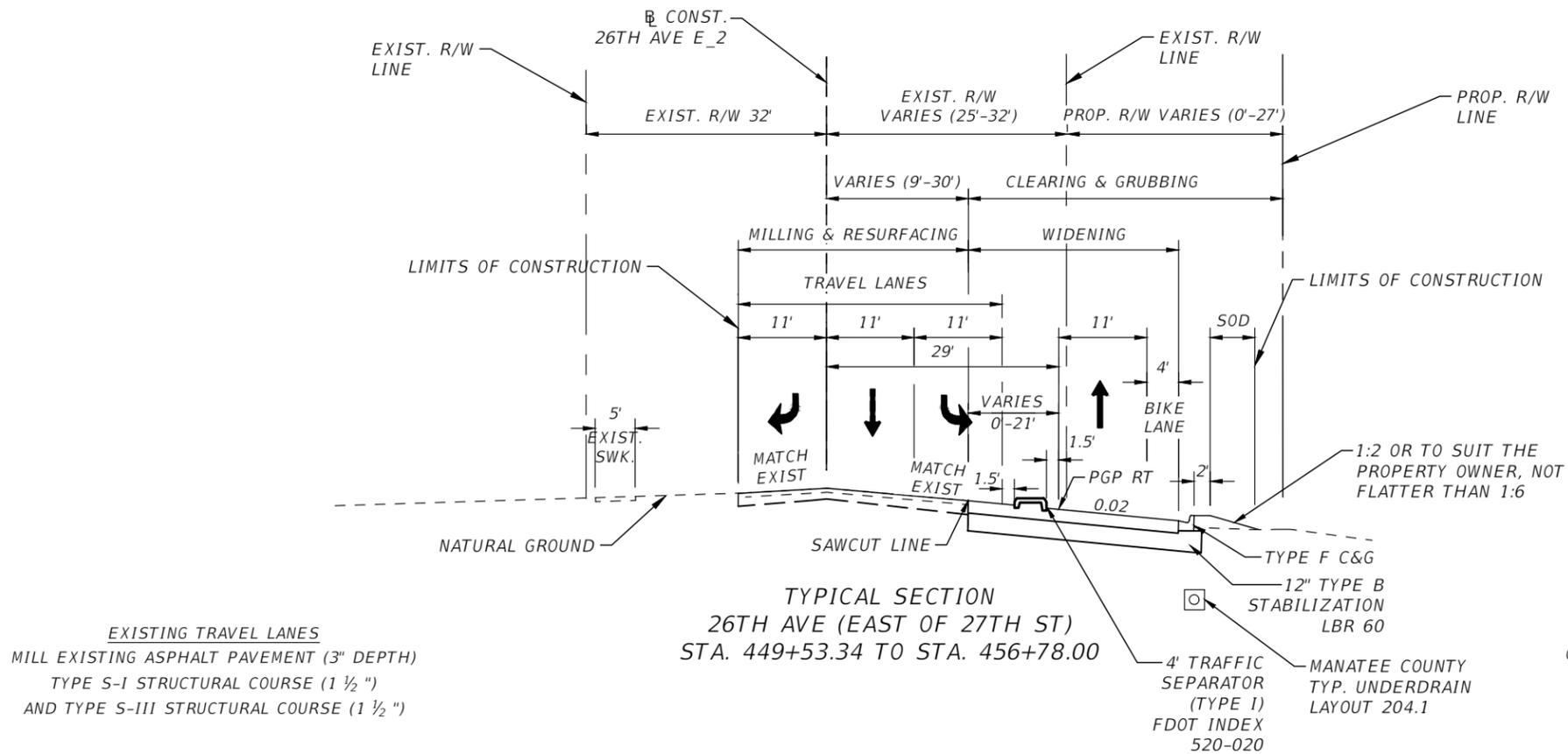
**WIDENING**  
 OPTIONAL BASE GROUP 9 (TYPE B-12.5) WITH  
 TYPE S-I STRUCTURAL COURSE (2 1/4")  
 AND TYPE S-III STRUCTURAL COURSE (1 1/2")

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	9
			BJB	DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
			BJB	DRAWN BY	6096560	67495	
			REH	CHECKED BY			



**TYPICAL SECTION (2)**

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NOTES:  
1) SIDEWALK TO BE CONSTRUCTED WITH MANATEE COUNTY CIP 6098660.\*  
2) EXISTING TREES AT STA. 450+04.00 AND 451+32.45 SHALL BE PROTECTED FROM ALL CONSTRUCTION ACTIVITIES.

**TRAFFIC DATA**

DESIGN YEAR = 2040 AADT = 20,382  
K = 9% D = 50% T = 9.5% (24 HOUR)  
DESIGN HOUR T = 9.5%  
DESIGN SPEED = 35 MPH  
POSTED SPEED = 35 MPH

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	10
				BJB		PROJECT NO. 6096560		
				BJB				
				REH				

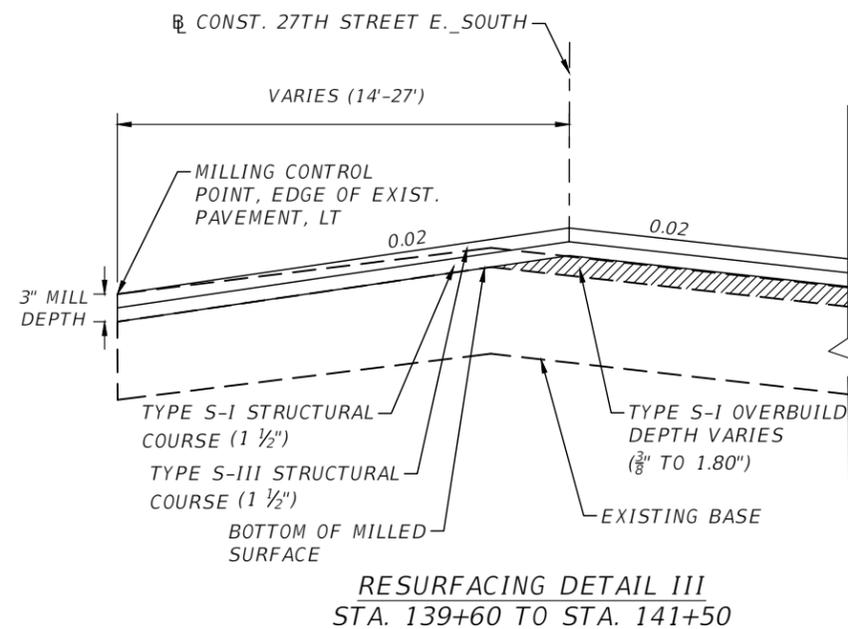


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

**TYPICAL SECTION (3)**

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OVERBUILD DETAIL						
LOCATION		EXIST. SLOPE (%)	PROPOSED SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
STATION	LANE					
139+60.00	NB 27th	2.55%	2.00%	3.24	10.83	2.22
140+00.00	NB 27th	1.92%	2.00%	2.40	10.77	1.66
141+00.00	NB 27th	3.39%	2.00%	2.64	10.78	1.83
142+00.00	NB 27th	3.88%	2.00%	1.20	10.98	1.01
143+00.00	NB 27th	3.49%	2.00%	0.96	1.51	0.06
144+00.00	NB 27th	2.79%	2.00%	3.36	5.06	0.71
145+00.00	NB 27th	1.84%	2.00%	8.28	8.74	3.01
146+00.00	NB 27th	3.51%	2.00%	8.88	12.52	4.63
147+00.00	NB 27th	2.53%	2.00%	6.48	11.90	3.21
148+00.00	NB 27th	3.28%	2.00%	6.24	11.61	3.02
149+00.00	NB 27th	For Additional Information See Intersection Detail				



NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	PROJECT NO.	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	6096560	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	11
				BJB					
				BJB					
				REH					

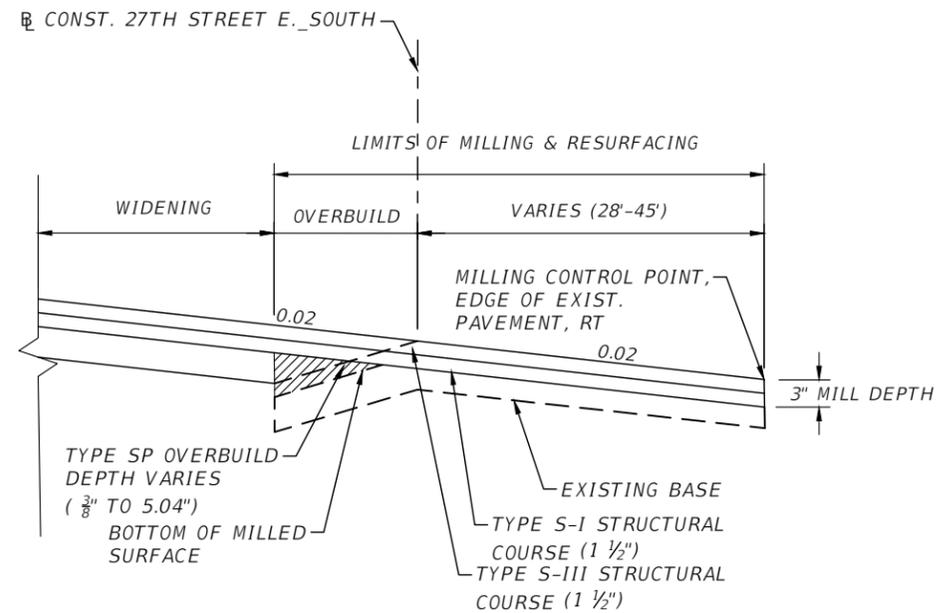


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TYPICAL SECTION (4)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**RESURFACING DETAIL IV**  
 STA. 141+50 TO STA. 149+00  
 STA. 250+00 TO STA. 257+00

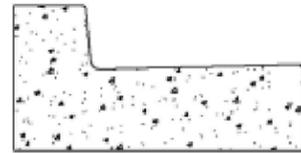
OVERBUILD DETAIL						
LOCATION		EXIST. SLOPE (%)	PROPOSED SLOPE (%)	MAX. DEPTH OF OVERBUILD (IN.)	WIDTH OF OVERBUILD (FT.)	AREA OF OVERBUILD (SQ. FT.)
STATION	LANE					
250+00.00	NB 27th	For Additional Information See Intersection Detail				
251+00.00	NB 27th	-1.27%	2.00%	3.48	4.31	0.62
252+00.00	NB 27th	-1.39%	2.00%	4.32	4.40	0.79
253+00.00	NB 27th	-1.58%	2.00%	7.32	4.40	1.34
254+00.00	NB 27th	-1.62%	2.00%	9.96	4.00	1.66
255+00.00	NB 27th	-1.55%	2.00%	5.28	7.97	1.75
256+00.00	NB 27th	-1.80%	2.00%	2.52	1.17	0.12
257+00.00	NB 27th	-1.79%	2.00%	1.52	0.73	0.05

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Skylar Casanova	DESIGN ENGINEER	<b>TYPICAL SECTION (5)</b>	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC	JULY 2024		ROBERT EDWARD HIDECK, P.E.		12
				BJB	5110 EISENHOWER BLVD.	PROJECT NO.		FL. LICENSE NO.		
				BJB	SUITE 310	6096560		67495		
				REH	TAMPA, FL 33634					
					(813)749-0823					

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



TYPE A  
MIAMI CURB & GUTTER  
DETAIL 201.1



TYPE F  
CURB & GUTTER  
DETAIL 201.2



TYPE AB  
MODIFIED CURB & GUTTER  
DETAIL 201.3

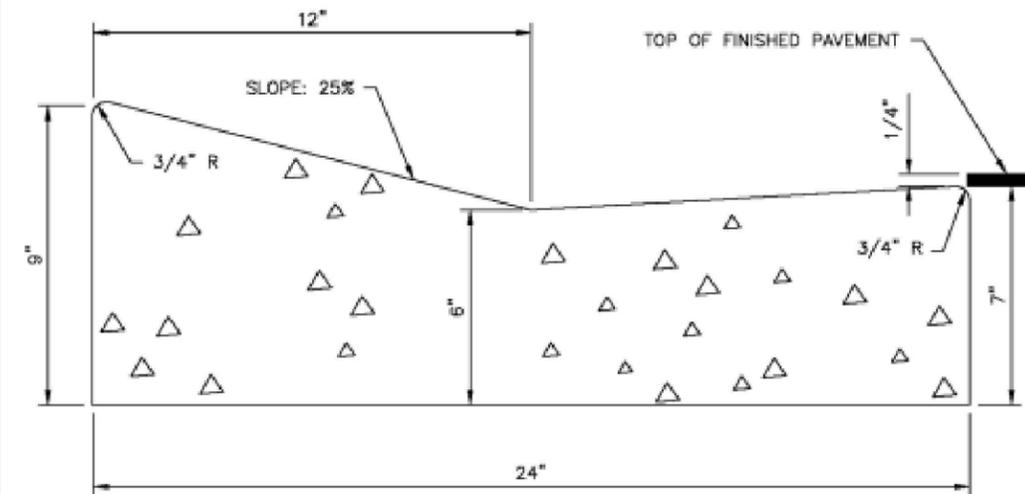


TYPE D  
CURB  
DETAIL 201.4

NOTES:

- A. ALL CURB AND GUTTER SHALL HAVE A 1/8" TO 1/4" CONTRACTION JOINT AT 10' CENTERS.
- B. ALL CURB AND GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FDOT STANDARD PLANS, INDEX NO. 520-001, LATEST EDITION.
- C. TOP OF FINISHED PAVEMENT SHALL BE 1/4" ABOVE LIP OF GUTTER ON THE LOW SIDE.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		CURB & GUTTER CONTROL SHEET	201.0
REV. BY	DATE		
	4/26/22		
	DATE OF APPROVAL		



TYPE A  
MIAMI CURB & GUTTER

NOTES:

- A. CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B. CURB AND GUTTER SHALL MEET FDOT STANDARD SPECIFICATIONS AND FDOT STANDARD PLANS, INDEX 520-001, LATEST EDITION.

MANATEE COUNTY PUBLIC WORKS DEPARTMENT		TYPE A MIAMI CURB & GUTTER	201.1
REV. BY	DATE		
	4/26/22		
	DATE OF B.O.C.C. APPROVAL		

PROVIDED FOR REFERENCE ONLY. SEE COUNTY STANDARDS.

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	PROJECT NO.	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	6096560	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	STANDARD DETAILS 13
				DESIGNED BY					
				DRAWN BY					
				CHECKED BY					



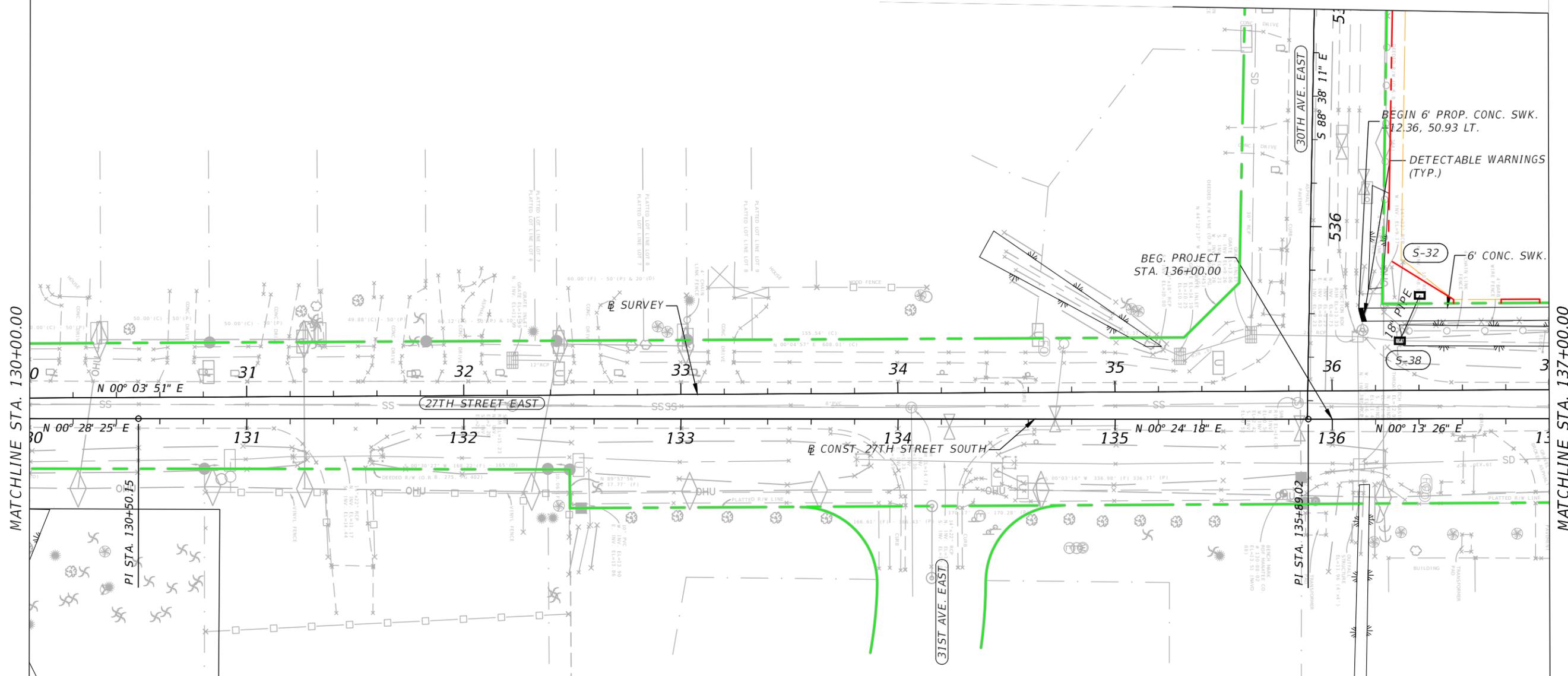
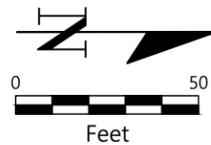
**GENERAL NOTES:**

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE BASED ON THE FLORIDA STATE PLAN COORDINATE SYSTEM (WEST ZONE) NAD 83/2011 HORIZONTAL DATUM AND NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). THE BENCHMARKS THESE ELEVATIONS ARE DERIVED FROM ARE:  
  
MANATEE COUNTY BENCHMARK #130-88-03, ELEVATION = 16.09'.  
MANATEE COUNTY BENCHMARK #130-88-02, ELEVATION = 13.51'.  
  
IN THE EVENT THAT MANATEE COUNTY BENCHMARK #130-88-03 IS DAMAGED OR REMOVED DURING CONSTRUCTION, THE BENCHMARK SHALL BE SENT TO THE MANATEE COUNTY SURVEYOR DIVISION ADDRESSED TO JOE CARNEVALE, CST, PROPERTY MANAGEMENT, SURVEY DIVISION 1112 MANATEE AVE WEST, STE 801G, BRADENTON, FLORIDA, 34205, (941) 748-4501 EXT. 6225. JOE.CARNEVALE@MYMANATEE.ORG
2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:  
KAVIN C. WILMOTT, P.S.M.  
LS 6809  
ZNS ENGINEERING  
201 5TH AVENUE DRIVE EAST  
BRADENTON, FL 34208
3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH, AND VVH) 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. PROVIDE INLET PROTECTION FOR ALL EXISTING DRAINAGE STRUCTURES TO REMAIN AND PROPOSED STRUCTURES.
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
7. THE REMOVAL OF ANY DRAINAGE STRUCTURE OR PIPE WITHIN 5.0 FEET OF ANY UTILITY THAT IS IN SERVICE SHALL BE ACCOMPLISHED SO AS NOT TO DAMAGE THE UTILITY.
8. ANY PORTION OF THE EXISTING RIGHT OF WAY THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REDRESSED AND SODDED AT THE CONTRACTOR'S EXPENSE.
9. PRIOR TO CONSTRUCTION, A SITE PLAN WITH ANY AREAS OF THE RIGHT OF WAY INTENDED TO BE UTILIZED FOR STAGING CONSTRUCTION EQUIPMENT OR MATERIAL STORAGE SHALL BE SUBMITTED FOR APPROVAL. THE PLAN SHALL SHOW THE PROPOSED LOCATIONS FOR PARKING IDLE EQUIPMENT, DESIGNATED LOCATIONS FOR EMPLOYEE PARKING, AND WORK STAGING AREAS. THE SITE PLAN MUST BE UPDATED AND MAINTAINED VIA SUBMITTALS AND APPROVALS FOR THE DIFFERENT PHASES OF CONSTRUCTION THROUGHOUT THE LIFE OF THE PROJECT.
10. NO STOCKPILE OF MATERIAL IS PERMITTED WITHIN THE PROJECT LIMITS WITHOUT PRIOR APPROVAL.
11. ALL BOTTOM PROFILE ELEVATIONS AND CROSS SECTIONS FOR TREATMENT/ATTENUATION SWALES SHALL BE CONSTRUCTED TO WITHIN ±0.1 FEET OF THE VALUES SHOWN ON THE PLANS.
12. PRIOR TO CONSTRUCTION, VERIFY EXISTING DRAINAGE INVERT ELEVATIONS THAT WILL REMAIN PART OF THE PROPOSED DRAINAGE SYSTEM. ANY DIFFERENCE FROM PLAN ELEVATION SHALL BE REPORTED TO THE ENGINEER.
13. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS ARE TO REMAIN, UNLESS OTHERWISE NOTED.
14. ALL STATIONS AND OFFSETS REFER TO THE ℞ OF CONSTRUCTION UNLESS OTHERWISE NOTED.
15. THE COUNTY RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIAL DELIVERED TO THE PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.
16. ANY DAMAGE TO COUNTY OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY, PAYMENT SHALL NOT BE MADE FOR THIS WORK.
17. OVERALL CLEANUP SHALL BE ACCOMPLISHED TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.
18. EXISTING DRIVEWAYS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS. REFER TO MANATEE COUNTY STANDARD 101.1 FOR URBAN DRIVEWAY CONSTRUCTION.
19. DRIVEWAY LOCATION AND WIDTH MAY BE FIELD ADJUSTED DURING CONSTRUCTION IN COORDINATION WITH REQUESTS FROM PROPERTY OWNERS, AND COUNTY COORDINATION.
20. INSTALL SOIL TRACKING PREVENTION DEVICES AT ALL POINTS OF CONSTRUCTION VEHICLE INGRESS/EGRESS.
21. SEE COUNTY HIGHWAY & TRAFFIC STANDARD MANUAL ROAD CONNECTION DETAIL 403.3 AT ALL WIDENING AND CONNECTIONS TO EXISTING PAVEMENT.

22. THE UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION. THE UTILITIES WERE LOCATED AS ACCURATELY AS POSSIBLE, HOWEVER NO GUARANTEE IS MADE THAT THE UTILITIES COMPRISE ALL UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED.
23. FIELD VERIFY ANY AND ALL EXISTING CONDITIONS PRIOR TO COMMENCING CONSTRUCTION, AND NOTIFY THE ENGINEER PROMPTLY OF ANY DISCREPANCIES.
24. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME THESE DRAWINGS WERE PREPARED, BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT SIZE, LOCATION, DEPTH, HEIGHT, ELEVATION, DIMENSION, AND EXTENT OF ALL UNDERGROUND AND OVERHEAD FACILITIES AND OTHER FEATURES AFFECTING HIS WORK PRIOR TO PROCEEDING WITH ANY CONSTRUCTION ACTIVITY THAT MAY AFFECT SUCH FACILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.
25. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR AND ALL UTILITY AGENCIES.  
  
NOTE: THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE.
26. SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
27. CONSTRUCT ALL EROSION CONTROL AND SEDIMENT CONTROL, IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, THROUGHOUT THE DURATION OF THE PROJECT AND ALL ASPECTS OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SITE RESTORATION EFFORTS THAT MAY BE REQUIRED AS A RESULT OF CONSTRUCTION. USE WHATEVER METHODS, CONFORMING TO APPLICABLE STANDARDS, NECESSARY TO PREVENT EROSION AND SILTATION AS MAY BE REQUIRED FOR THE PROJECT.
28. ALL EROSION CONTROL FENCES, BARRIERS, AND SILTATION DEVICES SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, SHALL BE MAINTAINED IN GOOD WORKING ORDER DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING. BUILT-UP SEDIMENT WILL BE REMOVED FROM SILT FENCES AND STAKED TURBIDITY BARRIERS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE/BARRIER. STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.
29. CHECK ALL EROSION AND SILTATION CONTROL DEVICES WEEKLY, AND AFTER EACH RAINFALL, AND REPAIR AND REPLACE THEM AS REQUIRED. MAINTENANCE AND INSPECTION OF THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION CONTROL SHALL BE INCLUDED IN THE COST OF PAY ITEMS LISTED.
30. PERFORMANCE TURF-SOD STABILIZATION SHALL OCCUR WITHIN 72 HOURS OF ACHIEVING FINAL GRADE. ALL SLOPES STEEPER THAN 3:1 SHALL INCLUDE SOD STAPLING OR STAKING, THE COST OF WHICH IS INCLUDED IN THE PAY ITEM FOR PERFORMANCE TURF, SOD (SY).
31. UNSUITABLE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OFF SITE, AT A SUITABLE SITE PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL PERMITS AND PERMITTING FEES REQUIRED FOR THE TRANSPORT AND DISPOSAL OF UNSUITABLE MATERIAL.
32. ANY PRIVATELY OWNED FEATURES LOCATED ON PRIVATE PROPERTY AND OUTSIDE THE DESIGNATED AREA OF CONSTRUCTION WHICH ARE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED/REPLACED IN KIND IN A TIMELY MANNER AT THE EXPENSE OF THE CONTRACTOR. PAYMENT SHALL NOT BE MADE FOR THIS WORK. THIS INCLUDES IMPACTS TO PRIVATE PROPERTY WITHIN THE TEMPORARY CONSTRUCTION EASEMENTS.
33. DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION, WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
34. ALL SIDEWALK DAMAGED BY THE CONTRACTOR OR SUBCONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR, AT THE DIRECTION OF THE COUNTY.
35. NO ROAD CLOSURE SHALL BE ALLOWED UNLESS APPROVED BY COUNTY REPRESENTATIVES. ACCESS FOR LOCAL TRAFFIC WITH DESTINATIONS WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED. IF IT BECOMES NECESSARY DURING CONSTRUCTION TO TEMPORARILY PROHIBIT ACCESS TO LOCAL TRAFFIC, ON EACH SEPARATE OCCASION, NOTIFY ALL AFFECTED PROPERTY OWNERS, MANATEE COUNTY SCHOOL BOARD, AND AREA EMERGENCY SERVICES AT LEAST THREE DAYS (72 HOURS) IN ADVANCE.
36. ALL SIDEWALK RAMPS TO HAVE DETECTABLE WARNINGS AS SHOWN IN THE PLANS AND STANDARD INDEX 522-002.
37. CONTACT STEVEN.ROBERTS@MYMANATEE.ORG AT (941)-708-7450 EXTENSION 7639 OR CUSTOMER SERVICE AT (941)-749-7116 TO REMOVE EXISTING MCAT EQUIPMENT. MCAT SHALL REINSTALL AFTER SHELTER SLABS ARE CONSTRUCTED.
38. ANY EXISTING LANDSCAPING OR IRRIGATION IMPACTED DURING CONSTRUCTION WITHIN THE TEMPORARY CONSTRUCTION EASEMENT FOR THE 7-11 PARCEL SHALL BE REPLACED IN KIND.
39. ATTENDANCE AT PUBLIC OUTREACH MEETING IS REQUIRED. PROVIDE 4 PCMS AT THE INTERSECTION OF 26TH AVE AND 27TH ST FOR 2 WEEKS PRIOR NOTIFYING PUBLIC OF MEETING.
40. ALL 'ROBERTO CLEMENTE' HONORARY STREET NAME SIGNS ARE TO REMAIN IN PLACE AND/OR BE RELOCATED AS NEEDED.

NO.	REVISIONS	DATE	BY	SCALE	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Benjamin Bower	DESIGN ENGINEER	GENERAL NOTES	SHEET NO.
				AS NOTED	MAY 2025		ROBERT EDWARD HIDECK, P.E.		67495
				DESIGNED BY	PROJECT NO.				
				BJB	6096560				
				DRAWN BY					
				BJB					
				CHECKED BY					
				REH					

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**LEGEND**

	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

**EROSION CONTROL LEGEND**

	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

FOR ADDITIONAL DRAINAGE INFORMATION SEE ROADWAY PLAN (4A) DRAINAGE SHEET

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BJB
DRAWN BY	BJB
CHECKED BY	REH

DATE	MAY 2025
PROJECT NO.	6096560

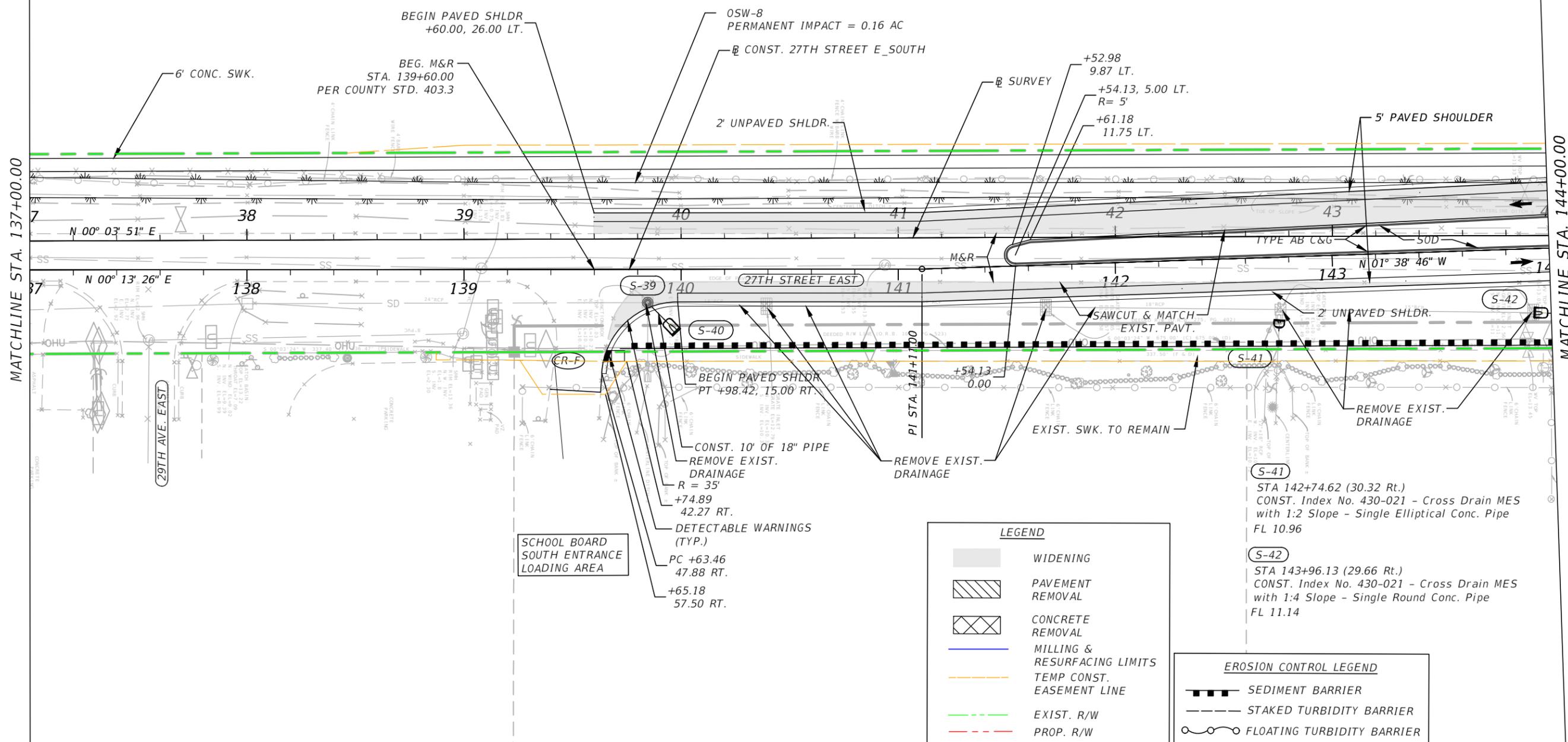
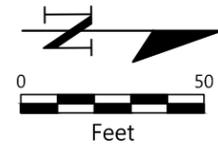
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

DESIGN ENGINEER	ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.	67495

**ROADWAY PLAN (1)**

SHEET NO.	15
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**LEGEND**

	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

**EROSION CONTROL LEGEND**

	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

NO.	REVISIONS	DATE	BY

SCALE: AS NOTED  
 DESIGNED BY: BJB  
 DRAWN BY: BJB  
 CHECKED BY: REH

DATE: MAY 2025  
 PROJECT NO.: 6096560



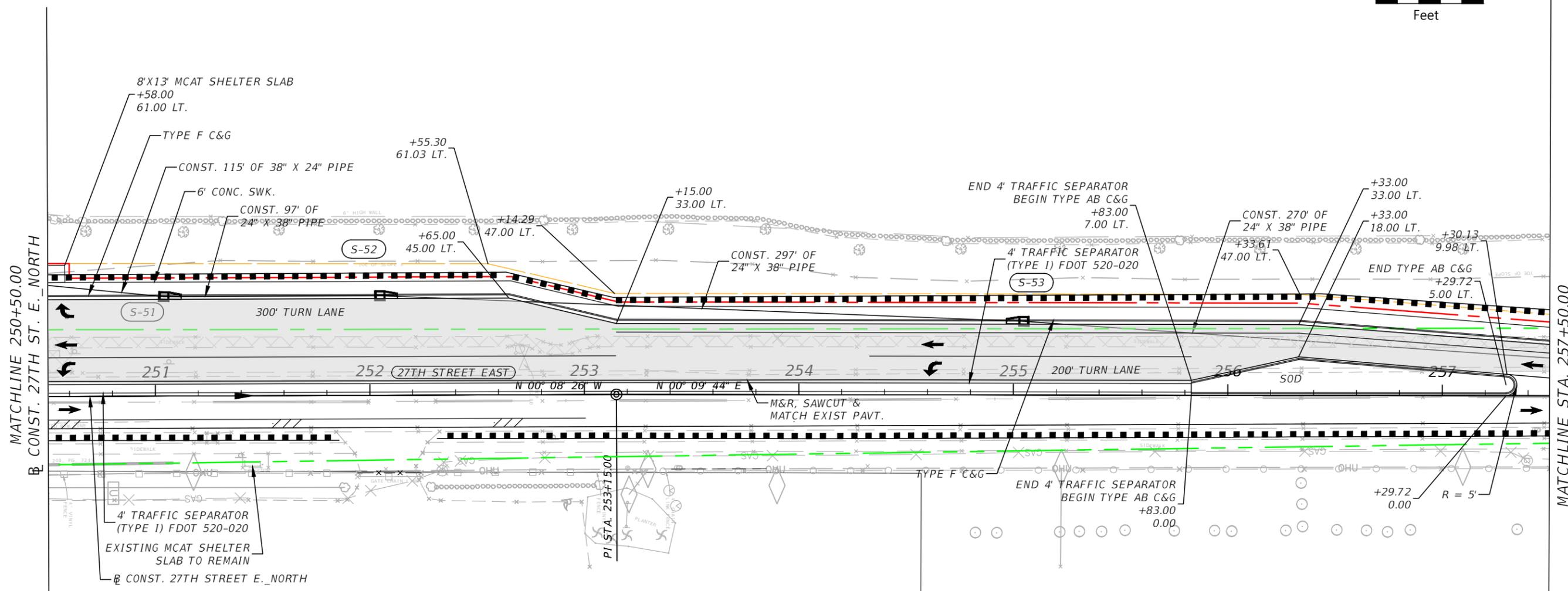
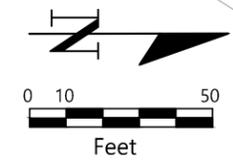
DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.: 67495

**ROADWAY PLAN (2)**

SHEET NO.: 16

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MATCHLINE 250+50.00  
CONST. 27TH ST. E. NORTH

MATCHLINE STA. 257+50.00

MIXON FARMS

LEGEND	
	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

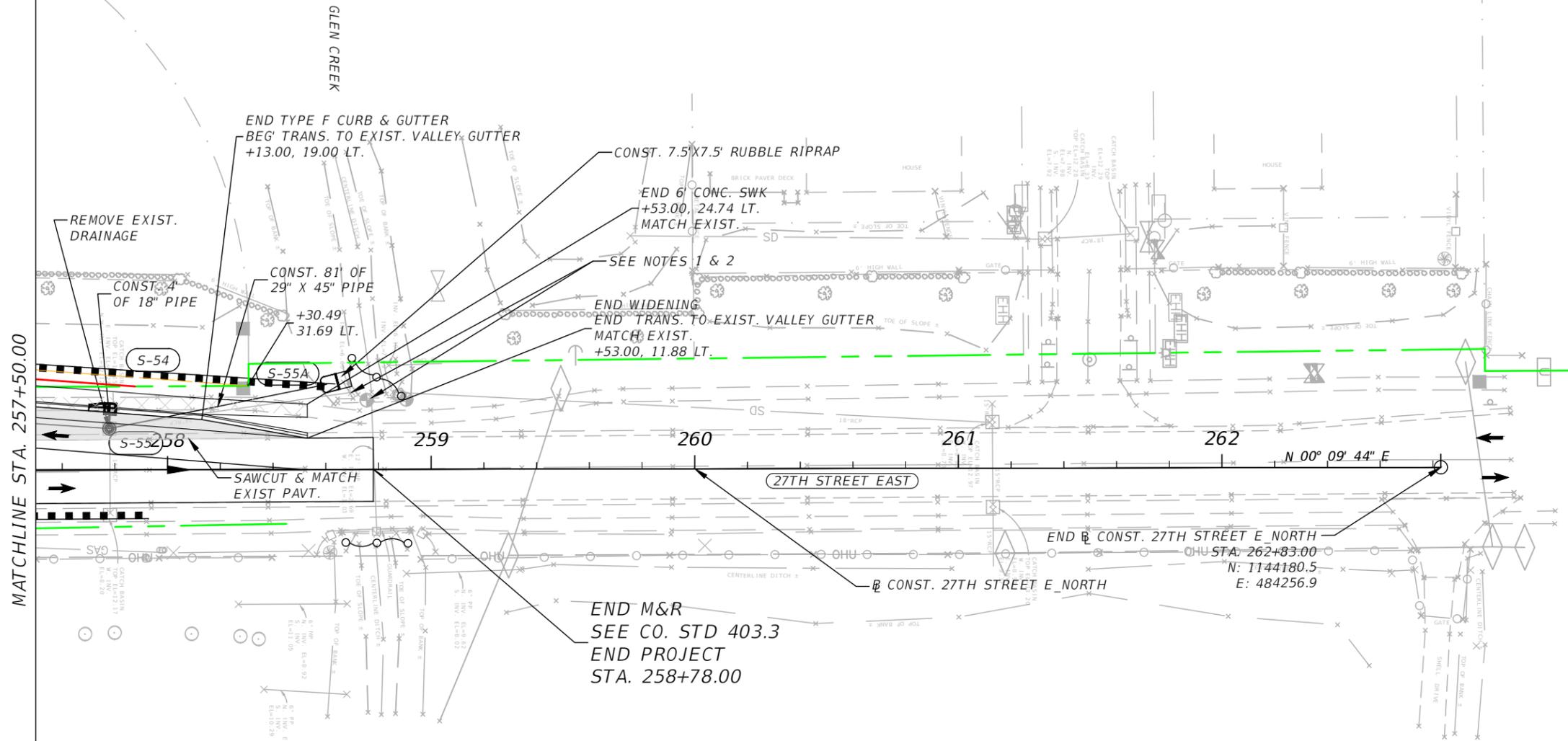
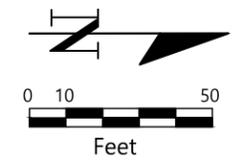
EROSION CONTROL LEGEND	
	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	MAY 2025	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	18
				DESIGNED BY	BJB	PROJECT NO.		
				DRAWN BY	BJB	6096560		
				CHECKED BY	REH			



ROADWAY PLAN (4)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCHLINE STA. 257+50.00

END TYPE F CURB & GUTTER  
BEG' TRANS. TO EXIST. VALLEY GUTTER  
+13.00, 19.00 LT.

CONST. 7.5' X 7.5' RUBBLE RIPRAP

END 6" CONC. SWK  
+53.00, 24.74 LT.  
MATCH EXIST.

SEE NOTES 1 & 2

END WIDENING  
END TRANS. TO EXIST. VALLEY GUTTER  
MATCH EXIST.  
+53.00, 11.88 LT.

CONST. 81' OF  
29" X 45" PIPE

+30.49  
31.69 LT.

REMOVE EXIST. DRAINAGE

CONST. 4' OF 18" PIPE

S-54

S-55A

S-55258

SAWCUT & MATCH EXIST PAVT.

259

260

261

262

N 00° 09' 44" E

END B CONST. 27TH STREET E NORTH  
OHU STA: 262+83.00  
N: 1144180.5  
E: 484256.9

B CONST. 27TH STREET E NORTH

END M&R  
SEE CO. STD 403.3  
END PROJECT  
STA. 258+78.00

- NOTES:
- REMOVE EXISTING 24" RCP AND CONCRETE OUTFALL HEADWALL. ADJACENT EXISTING CONCRETE ENDWALL AND CMP CULVERT TO REMAIN.
  - RELOCATE EXISTING STREAM GAGE.

LEGEND	
	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

EROSION CONTROL LEGEND	
	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

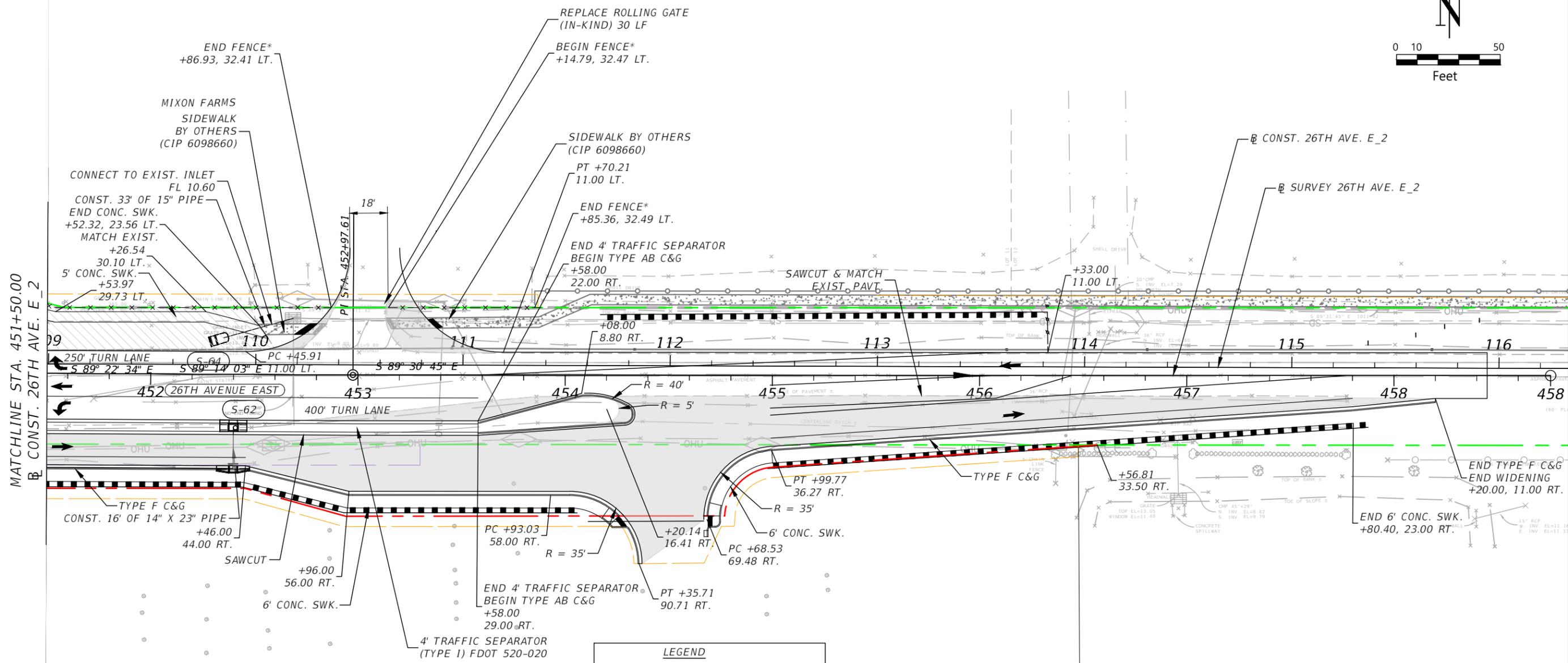
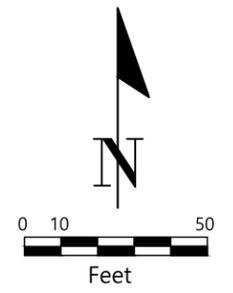
NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	ROBERT EDWARD HIDECK, P.E.	19
			BJB	DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
			BJB	DRAWN BY	6096560	67495	
			REH	CHECKED BY			



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

ROADWAY PLAN (5)

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\* REMOVE EXIST. FENCE AND GATES.  
INSTALL 48" WHITE CROSSBUCK  
PVC FENCE (MATCH ONSITE)

LEGEND	
	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

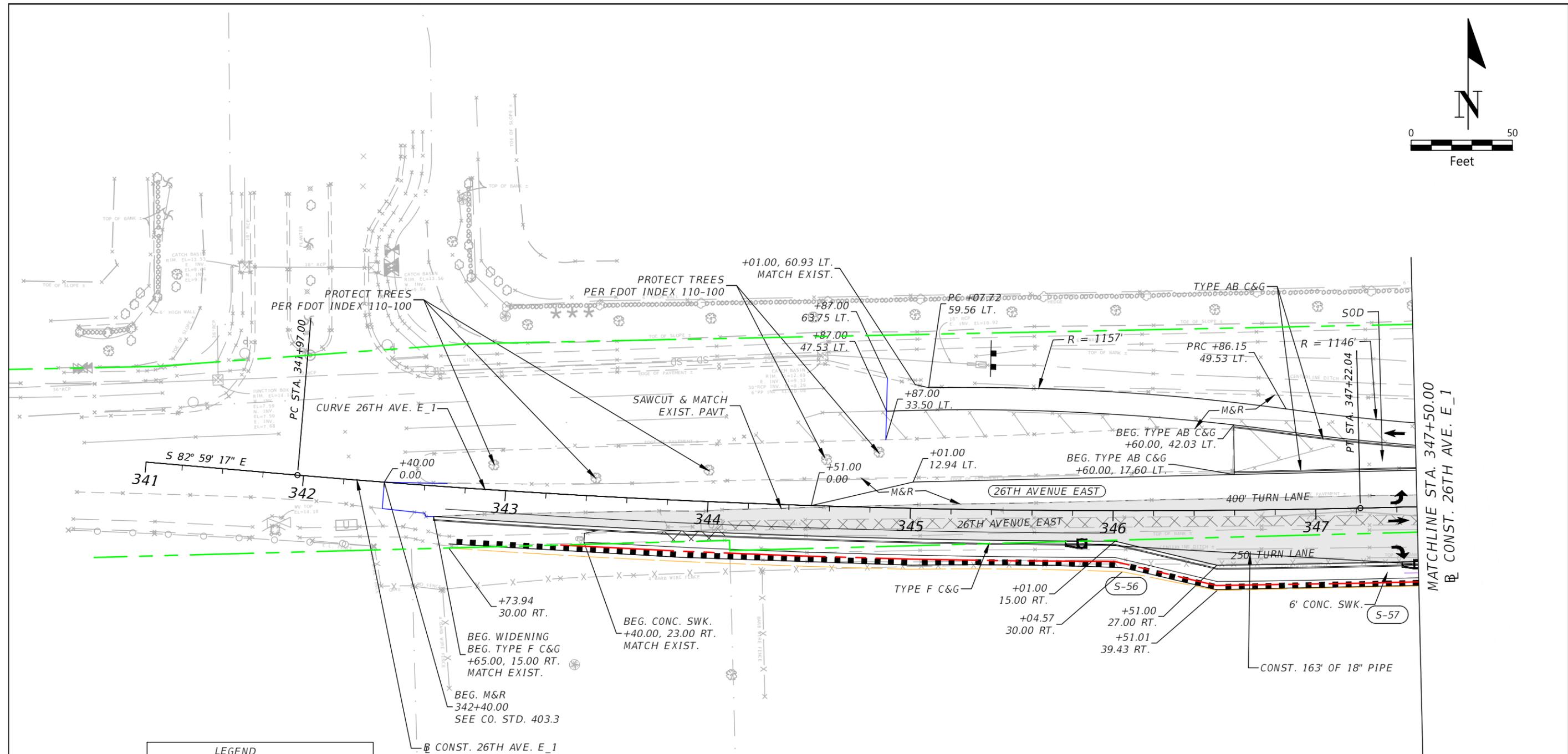
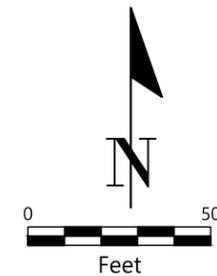
EROSION CONTROL LEGEND	
	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	MAY 2025	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	20
				DRAWN BY	BJB	PROJECT NO.		
				CHECKED BY	REH	6096560		



ROADWAY PLAN (6)

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**LEGEND**

	WIDENING
	PAVEMENT REMOVAL
	CONCRETE REMOVAL
	MILLING & RESURFACING LIMITS
	TEMP CONST. EASEMENT LINE
	EXIST. R/W
	PROP. R/W

**EROSION CONTROL LEGEND**

	SEDIMENT BARRIER
	STAKED TURBIDITY BARRIER
	FLOATING TURBIDITY BARRIER

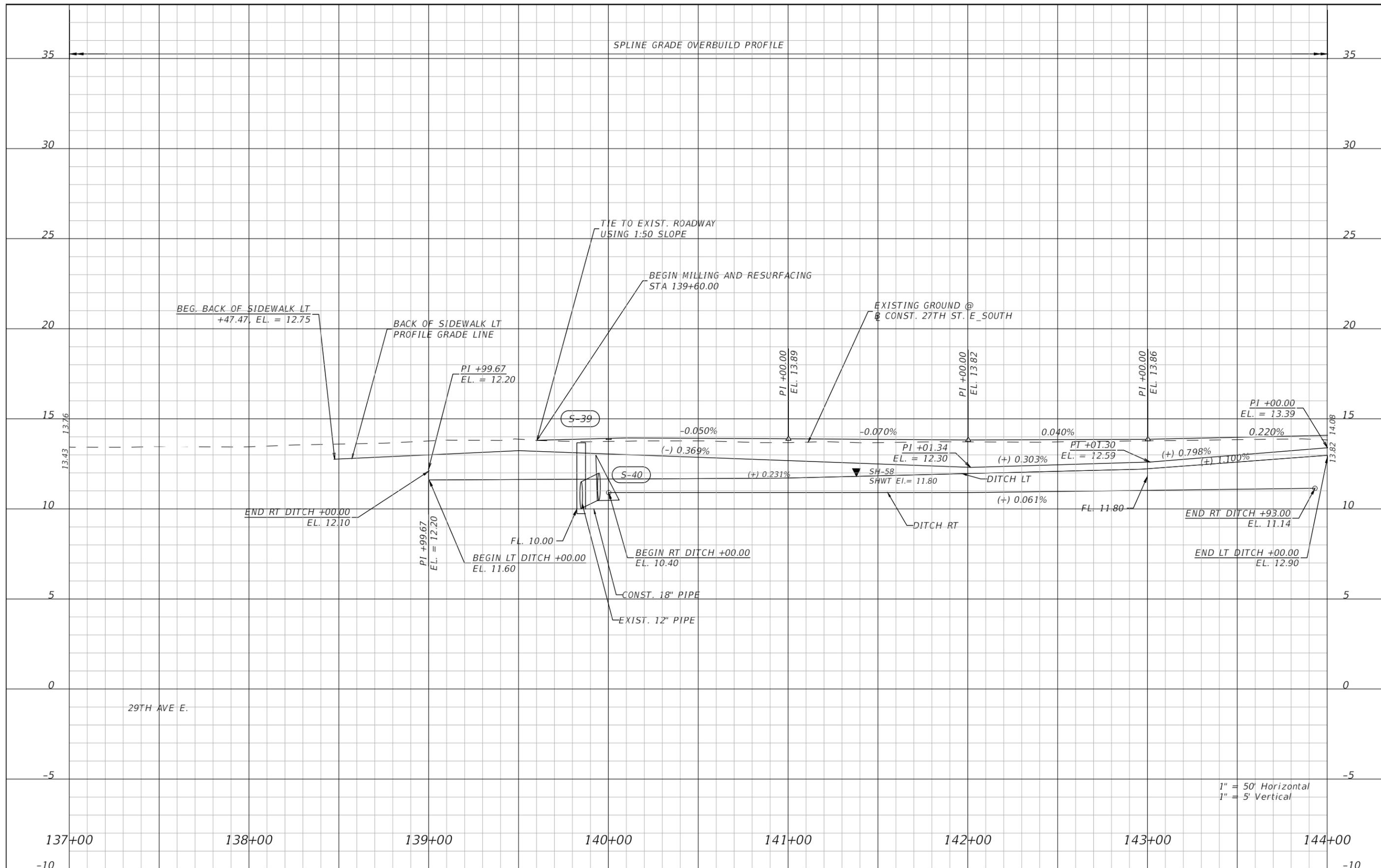
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 PI STA. = 344+59.78  
 DELTA = 6° 14' 47"  
 D = 1° 11' 23"  
 T = 262.78  
 L = 525.04  
 R = 4816.00  
 PC STA. = 341+97.00  
 PT STA. = 347+22.04  
 e = 0.02

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	ROBERT EDWARD HIDECK, P.E.	21
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096560	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			



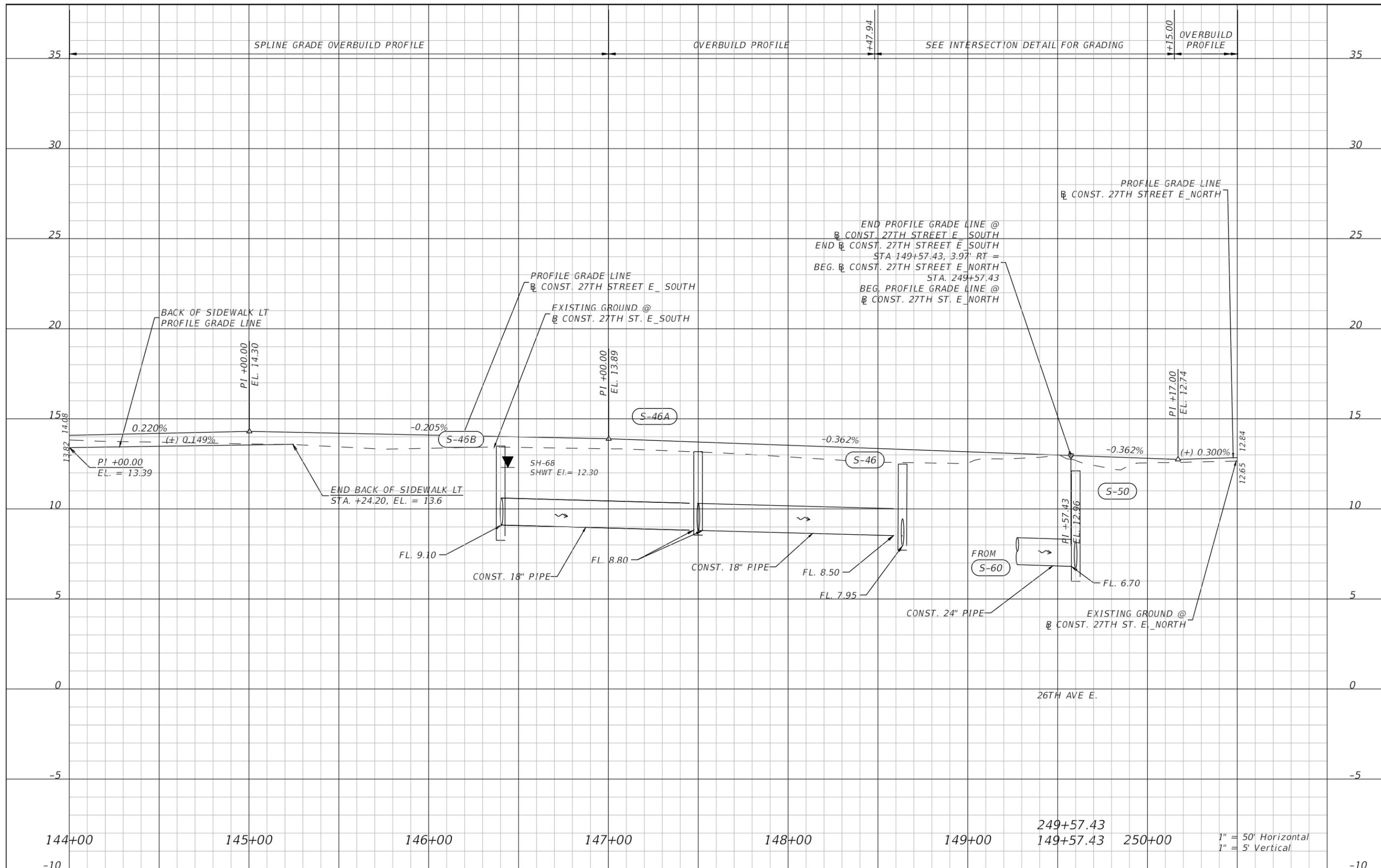
**ROADWAY PLAN (7)**

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NO.	REVISIONS	DATE	BY	SCALE	DATE				
				AS NOTED	MAY 2025	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Skylar Casanova	DESIGN ENGINEER ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	SHEET NO.	
				DESIGNED BY BJB	PROJECT NO. 6096560			PROFILE SHEET (1)	22
				DRAWN BY BJB					
				CHECKED BY REH					



NO.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BJB
DRAWN BY	BJB
CHECKED BY	REH

DATE	MAY 2025
PROJECT NO.	6096560

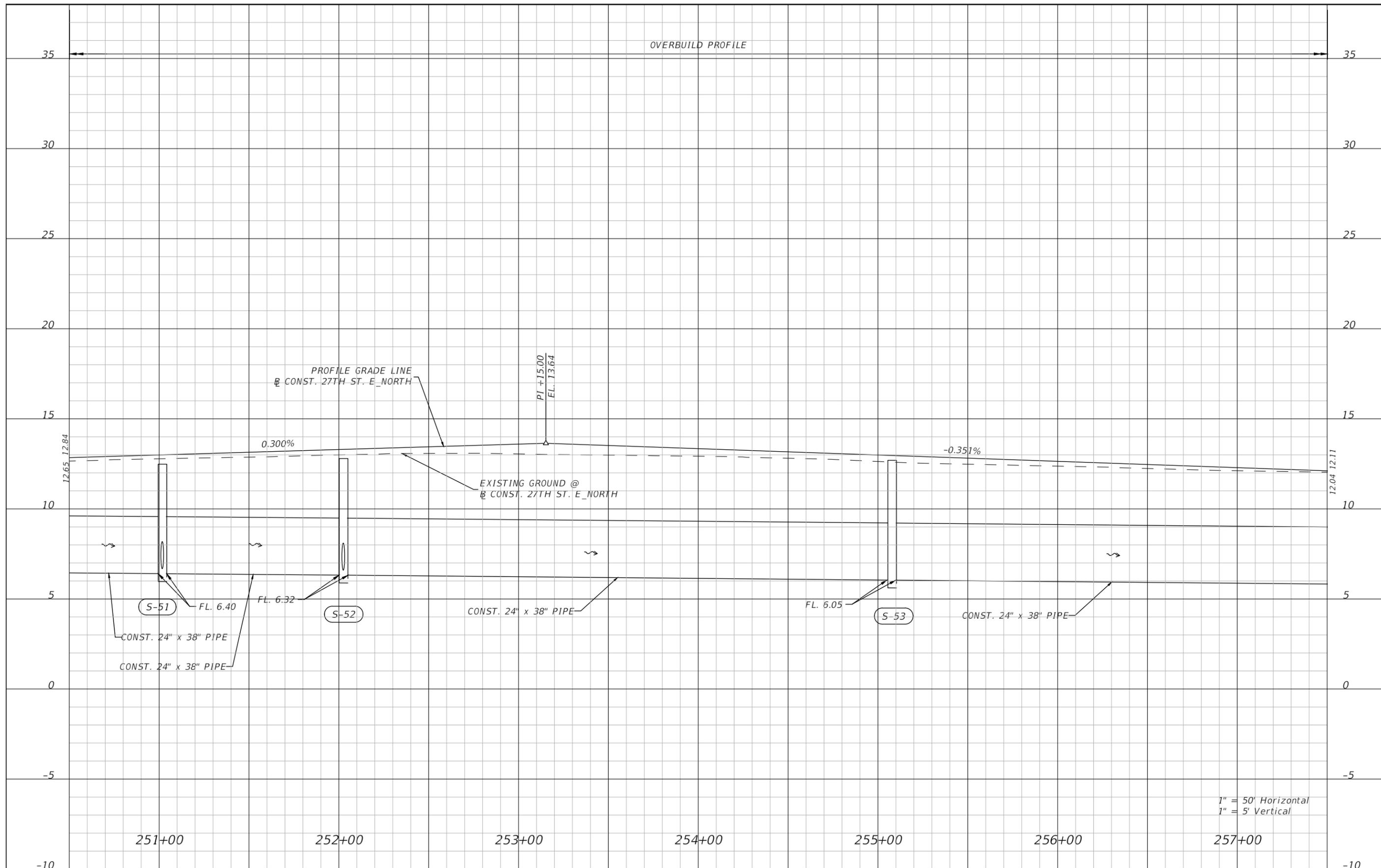


DESIGN ENGINEER	ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.	67495

PROFILE SHEET (2)

SHEET NO.	23
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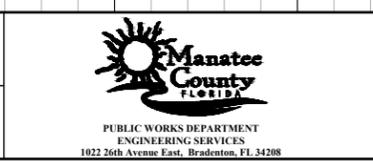


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NO.	REVISIONS	DATE	BY
	AS NOTED		
	DESIGNED BY		BJB
	DRAWN BY		BJB
	CHECKED BY		REH

HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823

DATE  
 MAY 2025  
 PROJECT NO.  
 6096560

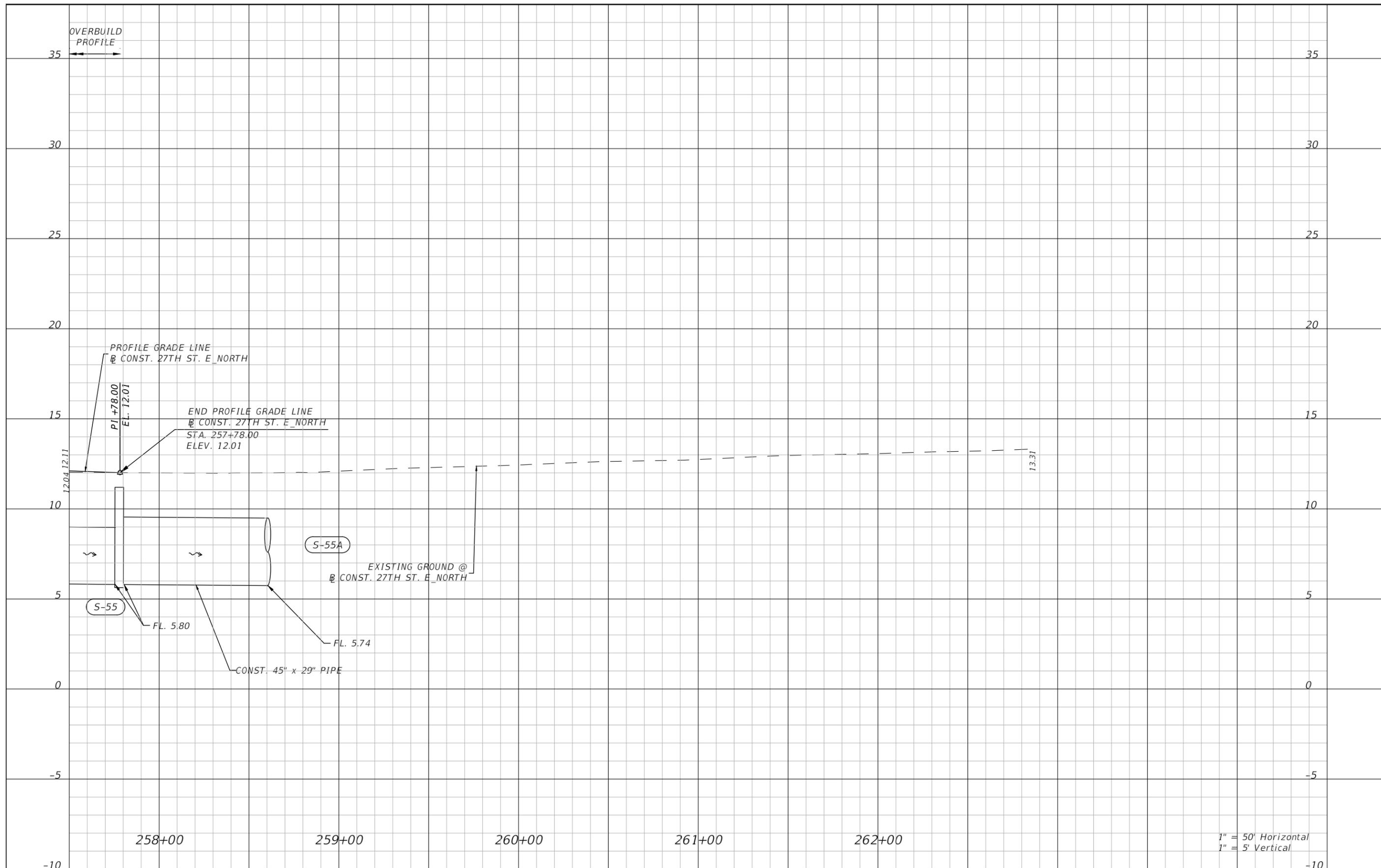


DESIGN ENGINEER  
 ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.  
 67495

PROFILE SHEET (3)

SHEET NO.  
 24

1" = 50' Horizontal  
 1" = 5' Vertical



1" = 50' Horizontal  
1" = 5' Vertical

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BJB
DRAWN BY	BJB
CHECKED BY	REH

DATE	PROJECT NO.
MAY 2025	6096560

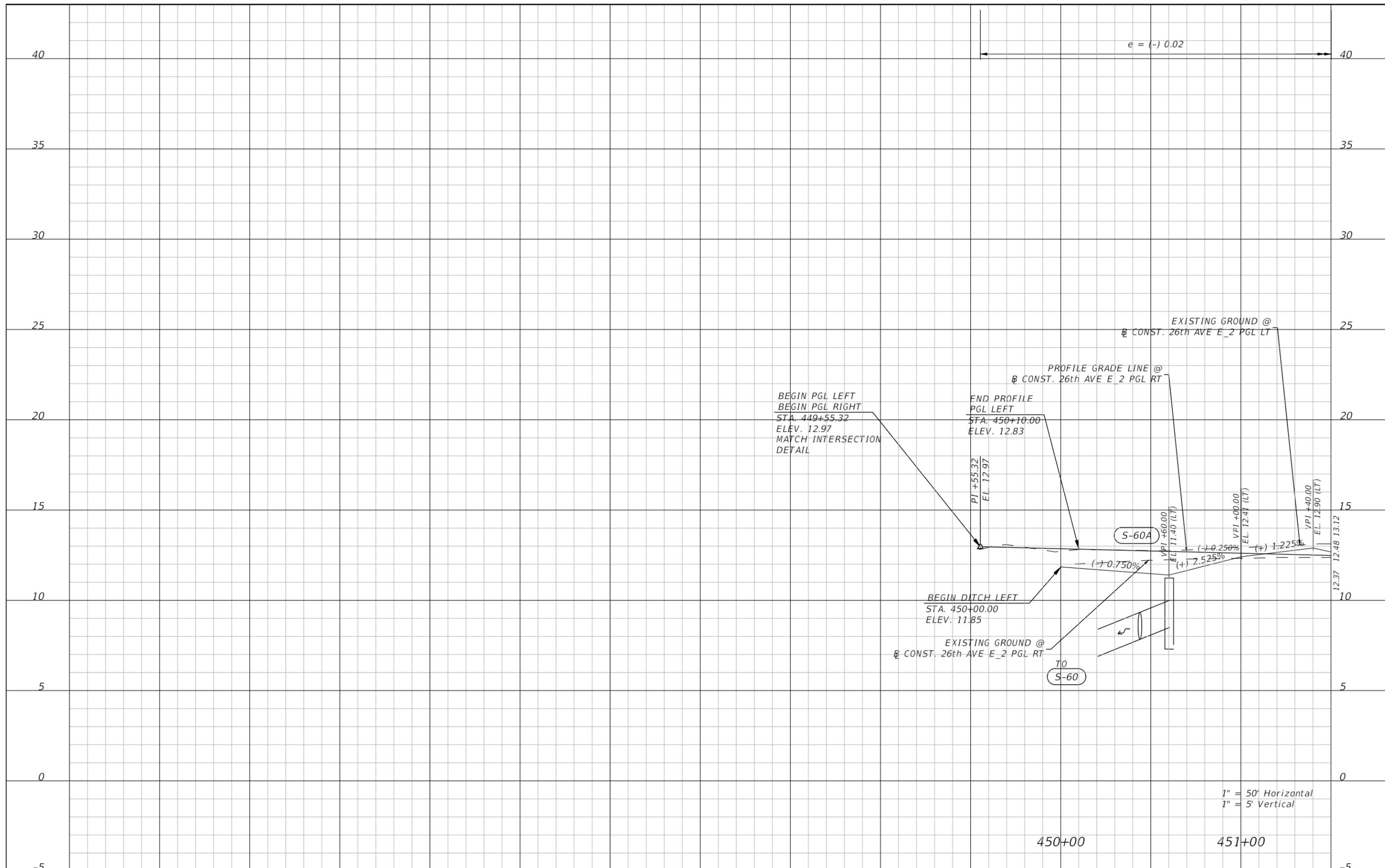
  
**Manatee County**  
 FLORIDA  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING SERVICES  
 1022 26th Avenue East, Bradenton, FL 34208  
 Skylar Casanova

DESIGN ENGINEER	FL. LICENSE NO.
ROBERT EDWARD HIDECK, P.E.	67495

**PROFILE SHEET (4)**

SHEET NO.
25

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NO.	REVISIONS	DATE	BY
	AS NOTED		
	DESIGNED BY		BJB
	DRAWN BY		BJB
	CHECKED BY		REH

SCALE  
 AS NOTED  
 HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823

DATE  
 MAY 2025  
 PROJECT NO.  
 6096560

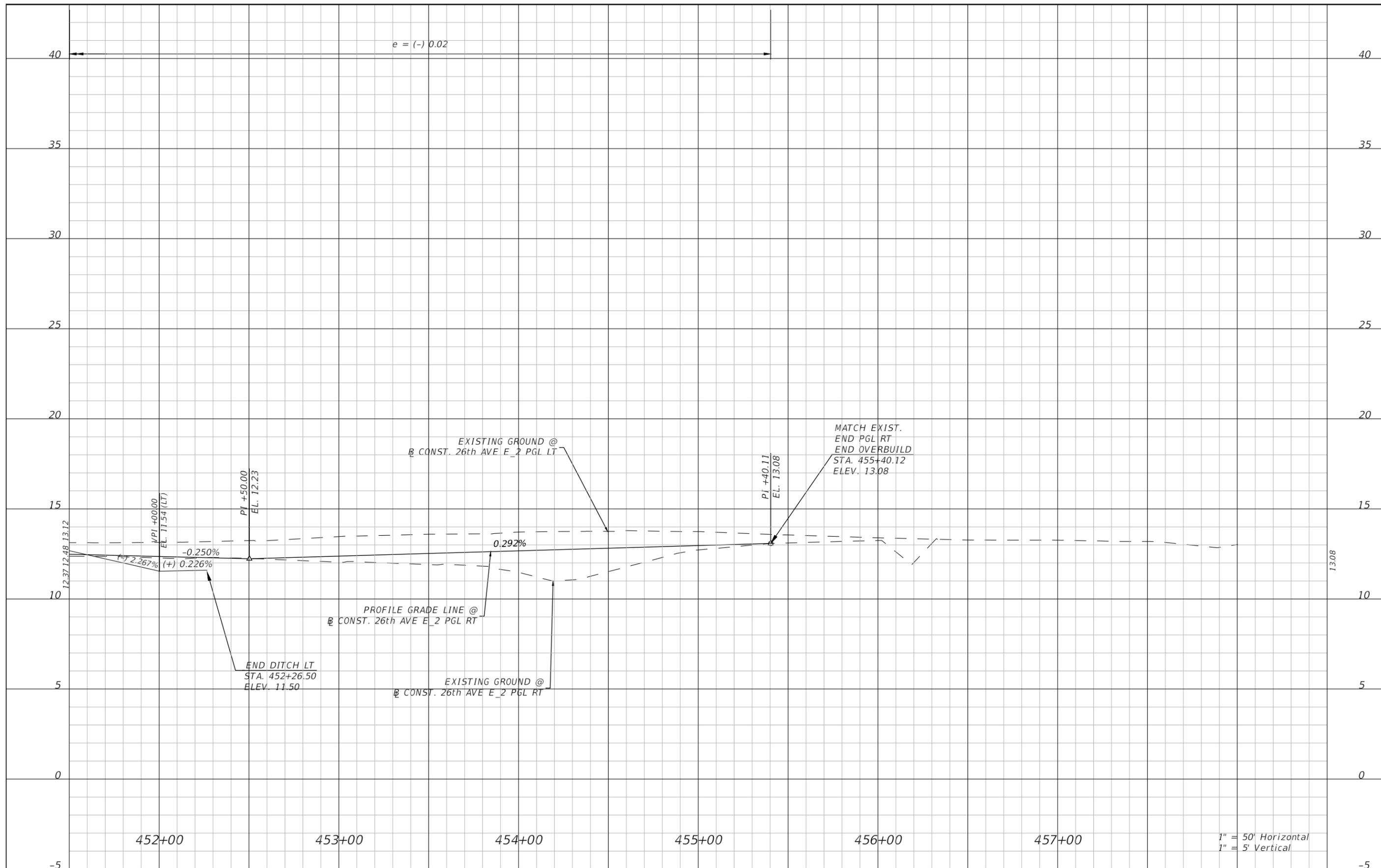


DESIGN ENGINEER  
 ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.  
 67495

**PROFILE SHEET (5)**

SHEET NO.  
 26

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$e = (-) 0.02$

MATCH EXIST.  
END PGL RT  
END OVERBUILD  
STA. 455+40.12  
ELEV. 13.08

PROFILE GRADE LINE @  
CONST. 26th AVE E\_2 PGL RT

EXISTING GROUND @  
CONST. 26th AVE E\_2 PGL RT

END DITCH LT  
STA. 452+26.50  
ELEV. 11.50

EXISTING GROUND @  
CONST. 26th AVE E\_2 PGL RT

452+00

453+00

454+00

455+00

456+00

457+00

1" = 50' Horizontal  
1" = 5' Vertical

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BJB
DRAWN BY	BJB
CHECKED BY	REH

DATE	PROJECT NO.
MAY 2025	6096560

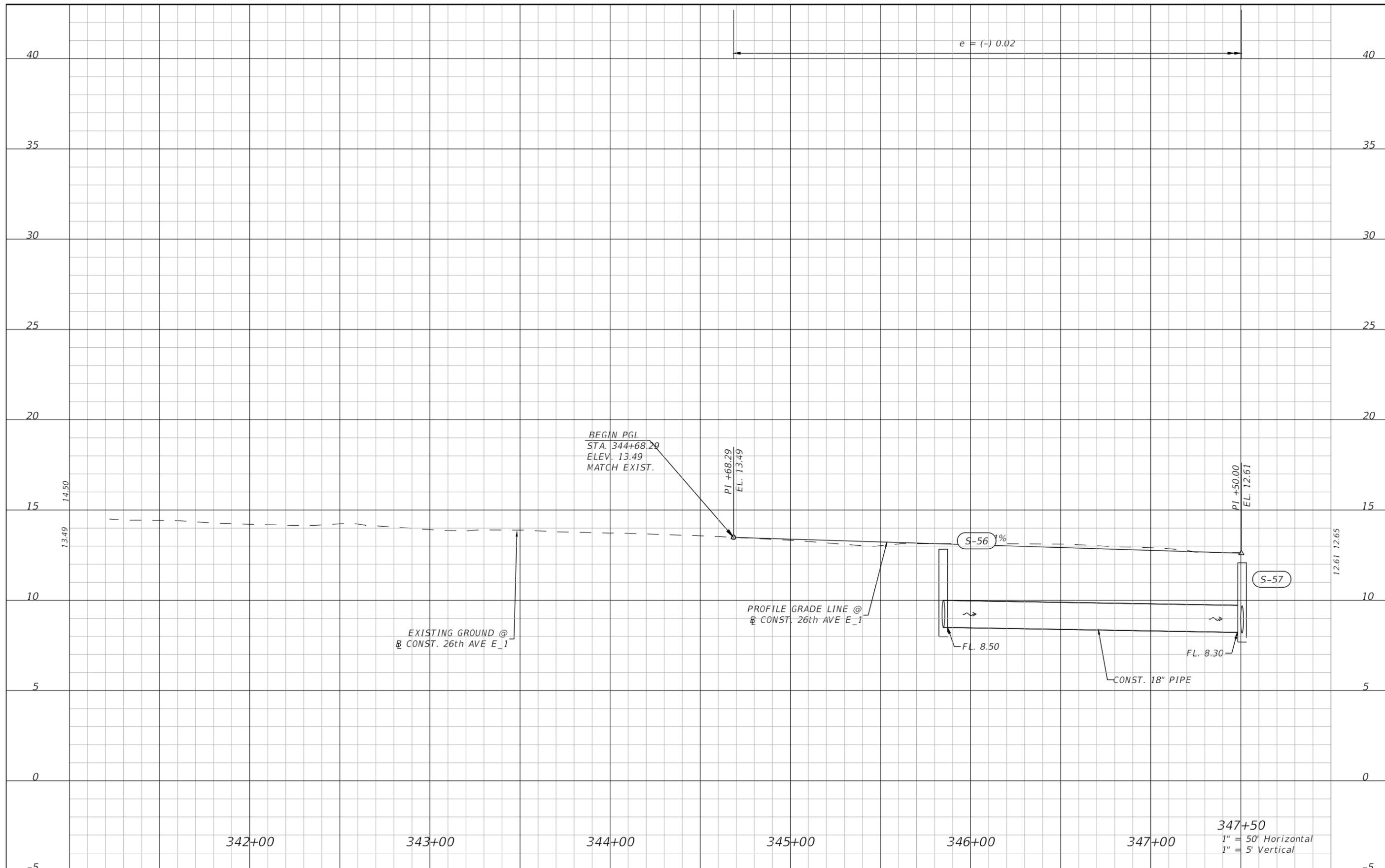
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

DESIGN ENGINEER
ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495

PROFILE SHEET (6)

SHEET NO.  
27

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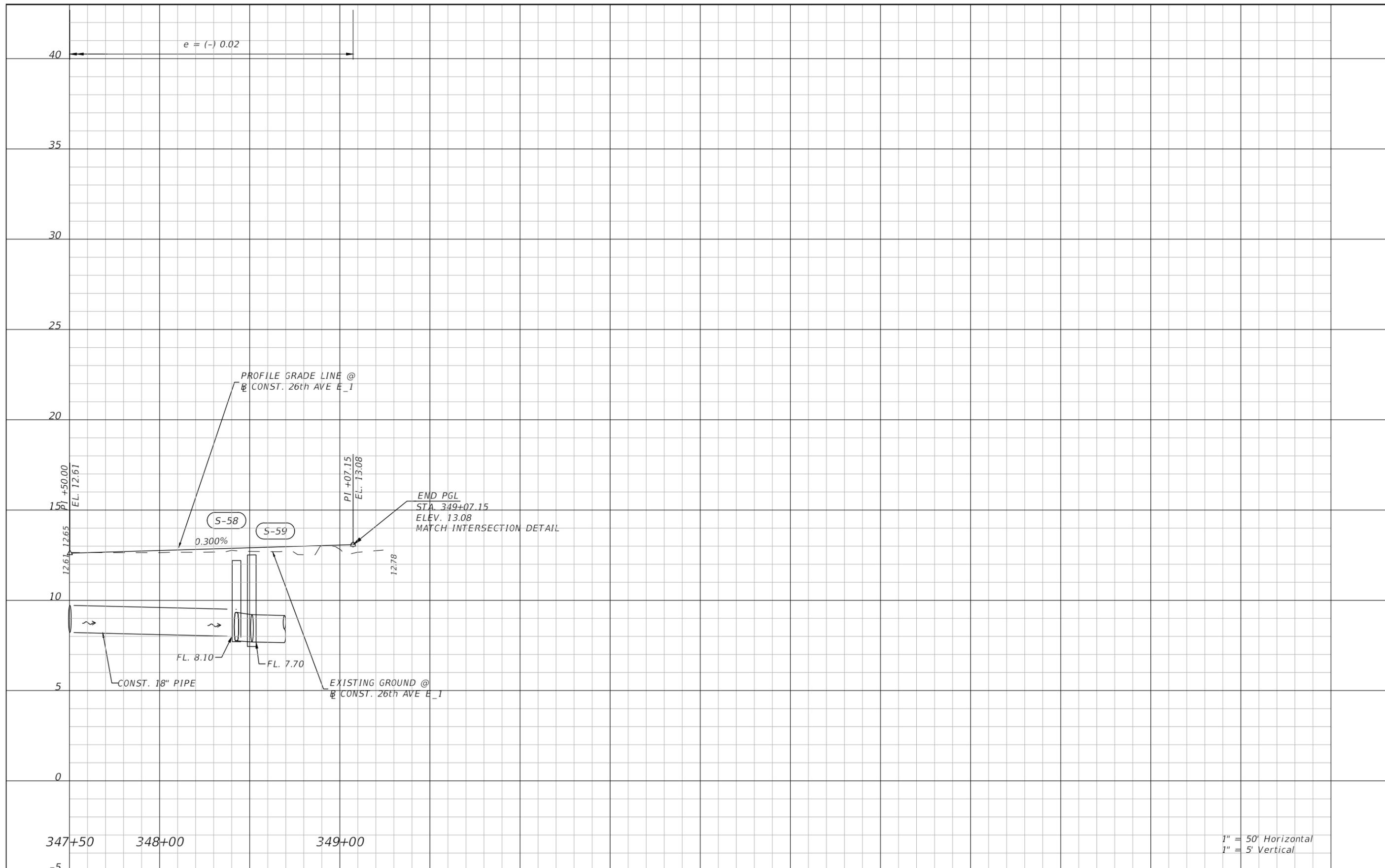


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NO.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE		DESIGN ENGINEER	<b>PROFILE SHEET (7)</b>	SHEET NO.
					HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	MAY 2025		ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO.		
					DESIGNED BY: BJB	PROJECT NO. 6096560		67495		
					DRAWN BY: BJB					
					CHECKED BY: REH					28

Skylar Casanova

G:\Projects\Manatee County\3285.01 - 27th Street\3285.01\60965600000\Roadway\PROFRD01\_new limits.dwg

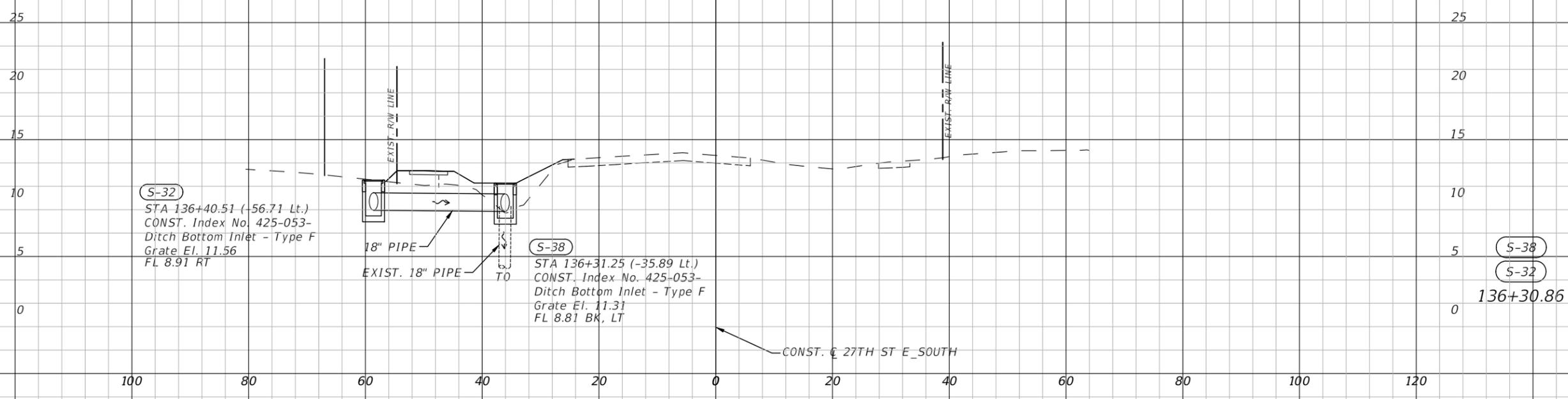


1" = 50' Horizontal  
1" = 5' Vertical

NO.	REVISIONS	DATE	BY	SCALE	AS NOTED HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Skylar Casanova	DESIGN ENGINEER	<b>PROFILE SHEET (8)</b>	SHEET NO.
						MAY 2025		ROBERT EDWARD HIDECK, P.E.		
						PROJECT NO.		FL. LICENSE NO.		
						6096560		67495		
				REH						29

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(S-32)  
 STA 136+40.51 (-56.71 Lt.)  
 CONST. Index No. 425-053-  
 Ditch Bottom Inlet - Type F  
 Grate El. 11.56  
 FL 8.91 RT

18" PIPE  
 EXIST. 18" PIPE

(S-38)  
 STA 136+31.25 (-35.89 Lt.)  
 CONST. Index No. 425-053-  
 Ditch Bottom Inlet - Type F  
 Grate El. 11.31  
 FL 8.81 BK, LT

(S-38)  
 (S-32)  
 136+30.86

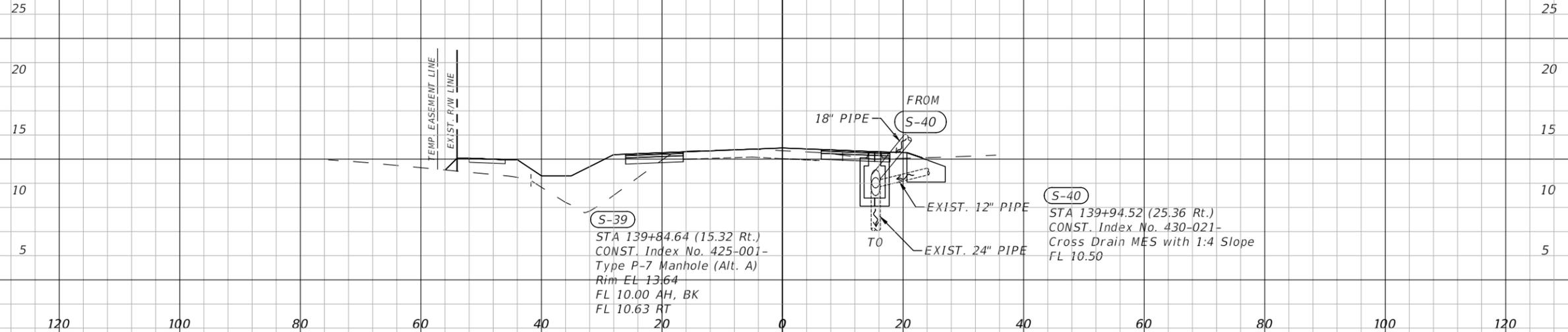
CONST. C 27TH ST E\_SOUTH

1" = 20' Horizontal  
 1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	CRAIG A. JENNE, P.E.	DRAINAGE STRUCTURES (1)
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				ZSG	6096560	69269	31
				DRAWN BY	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Skylar Casanova		
				BJB			
				CHECKED BY			
				JWD			

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CONST. 27TH ST E\_SOUTH



S-39  
 STA 139+84.64 (15.32 Rt.)  
 CONST. Index No. 425-001-  
 Type P-7 Manhole (Alt. A)  
 Rim EL 13.64  
 FL 10.00 AH, BK  
 FL 10.63 RT

S-40  
 STA 139+94.52 (25.36 Rt.)  
 CONST. Index No. 430-021-  
 Cross Drain MES with 1:4 Slope  
 FL 10.50

S-39  
 S-40  
 139+84.61

1" = 20' Horizontal  
 1" = 10' Vertical

NO.	REVISIONS	DATE	BY
	AS NOTED		
	ZSG		
	BJB		
	JWD		

DESIGNED BY  
 HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823

DATE  
 JULY 2024  
 PROJECT NO.  
 6096560

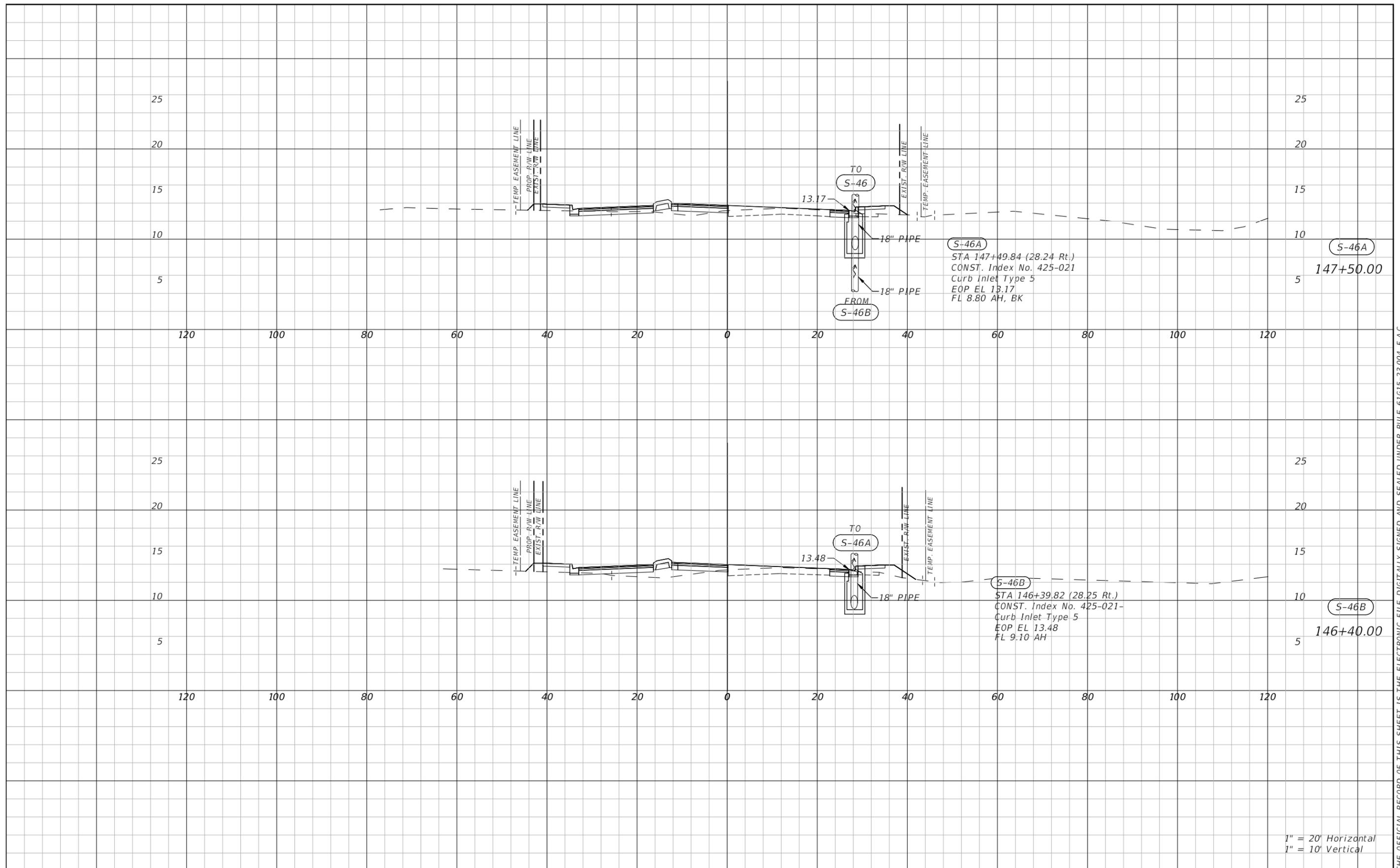


DESIGN ENGINEER  
 CRAIG A. JENNE, P.E.  
 FL. LICENSE NO.  
 69269

**DRAINAGE STRUCTURES (2)**

SHEET NO.  
 32

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1" = 20' Horizontal  
1" = 10' Vertical

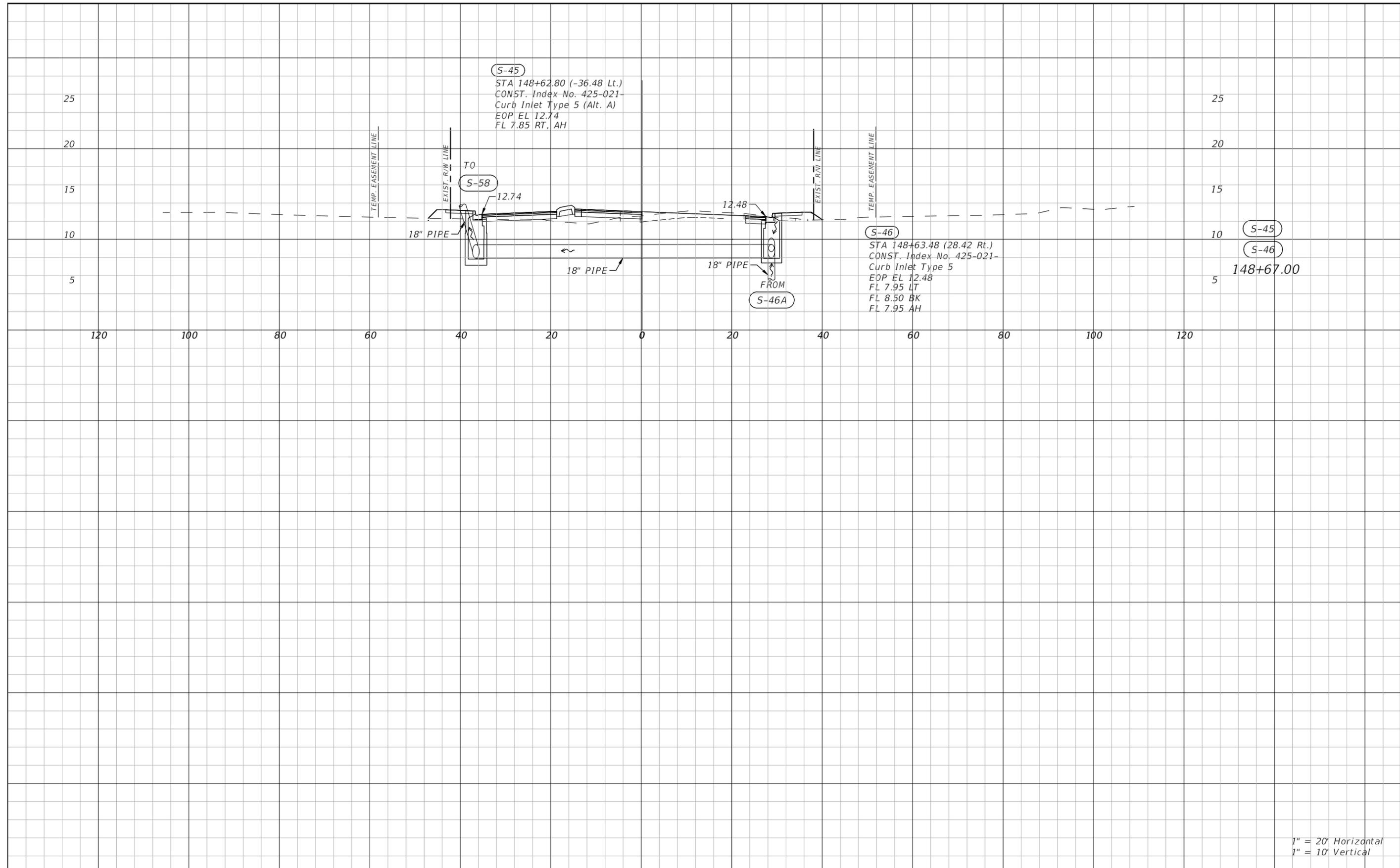
NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	CRAIG A. JENNE, P.E.	
				DESIGNED BY	ZSG	PROJECT NO.	FL. LICENSE NO.	
				DRAWN BY	BJB	6096560	69269	
				CHECKED BY	JWD			



Skylar Casanova

**DRAINAGE STRUCTURES (3)**

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1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	CRAIG A. JENNE, P.E.	DRAINAGE STRUCTURES (4)
				DESIGNED BY	ZSG	PROJECT NO.	FL. LICENSE NO.	
				DRAWN BY	BJB	6096560	69269	34
				CHECKED BY	JWD			



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

DRAINAGE STRUCTURES (4)

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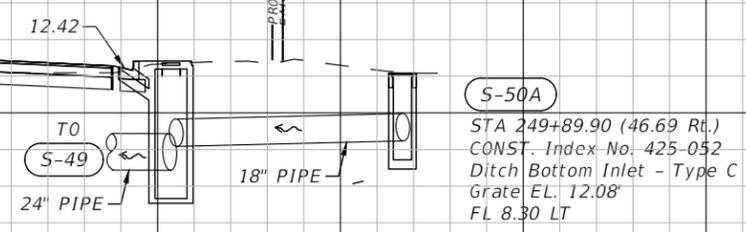
CONST. C 27TH ST E NORTH

**S-50**  
 STA 249+91.27 (21.37 Rt.)  
 CONST. Index No. 425-020-  
 Curb Inlet Type P-3  
 EOP EL. 12.27  
 FL 6.70 LT  
 FL 8.00 RT

25  
20  
15  
10  
5

25  
20  
15  
10  
5

80 60 40 20 0 20 40 60 80 100 120



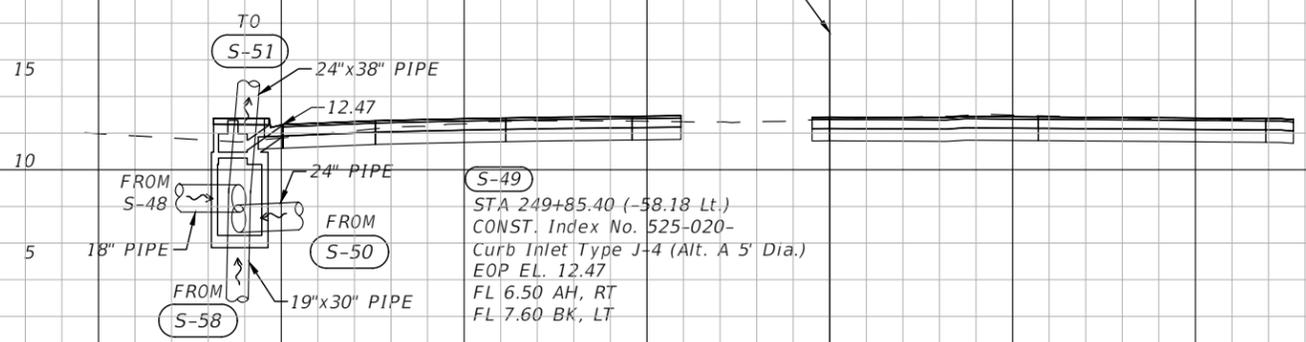
CONST. C 27TH ST E NORTH

**S-49**  
 STA 249+85.40 (-58.18 Lt.)  
 CONST. Index No. 525-020-  
 Curb Inlet Type J-4 (Alt. A 5' Dia.)  
 EOP EL. 12.47  
 FL 6.50 AH, RT  
 FL 7.60 BK, LT

15  
10  
5

15  
10  
5

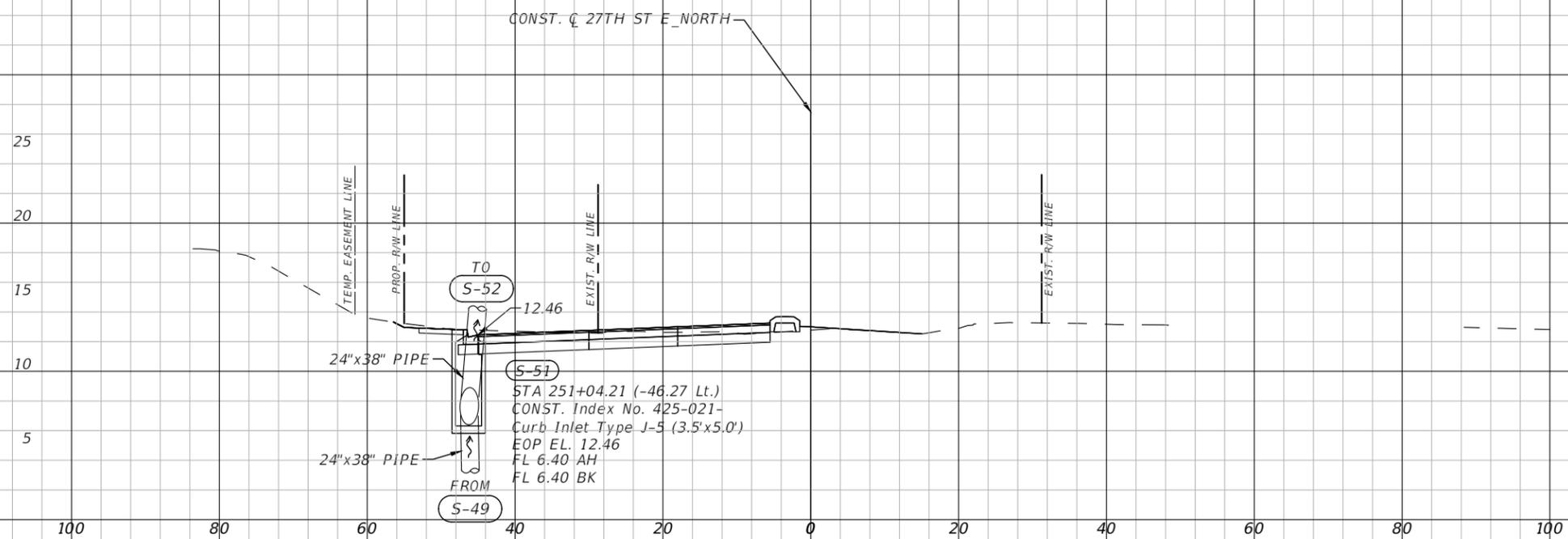
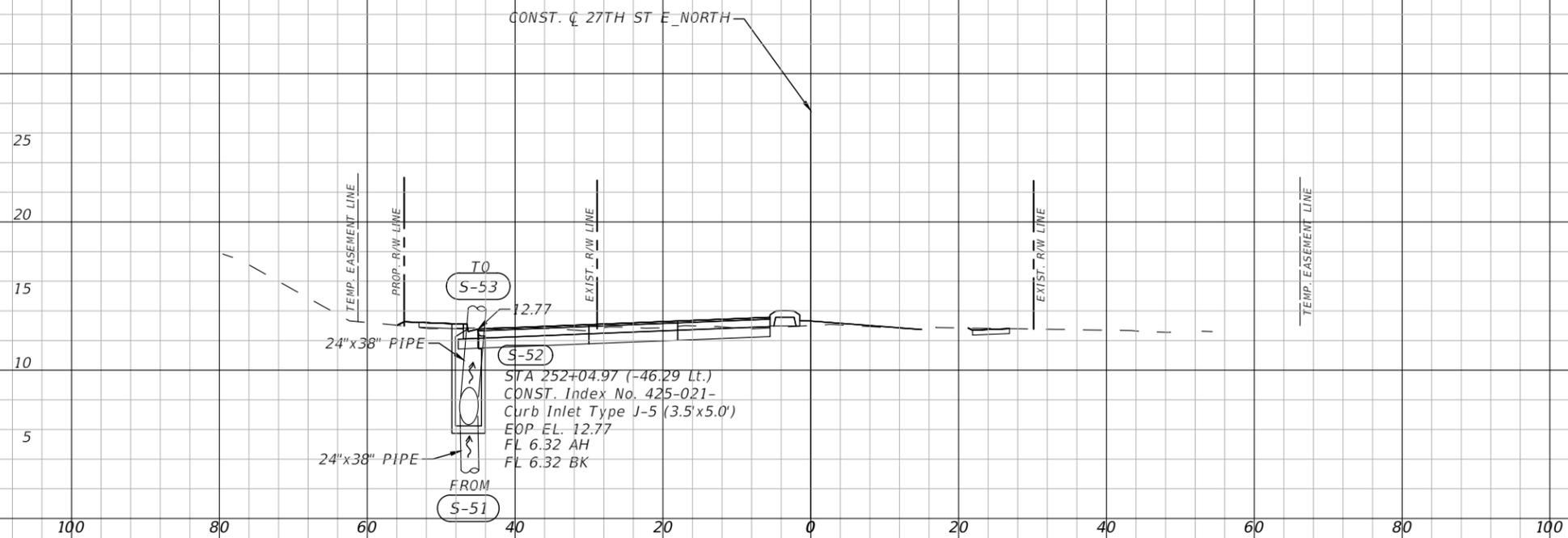
80 60 40 20 0 20 40 60 80 100 120



1" = 20' Horizontal  
 1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	CRAIG A. JENNE, P.E.	DRAINAGE STRUCTURES (5)
				ZSG		PROJECT NO. 6096560	FL. LICENSE NO. 69269	
				BJB				35
				JWD				

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S-52  
252+05.01

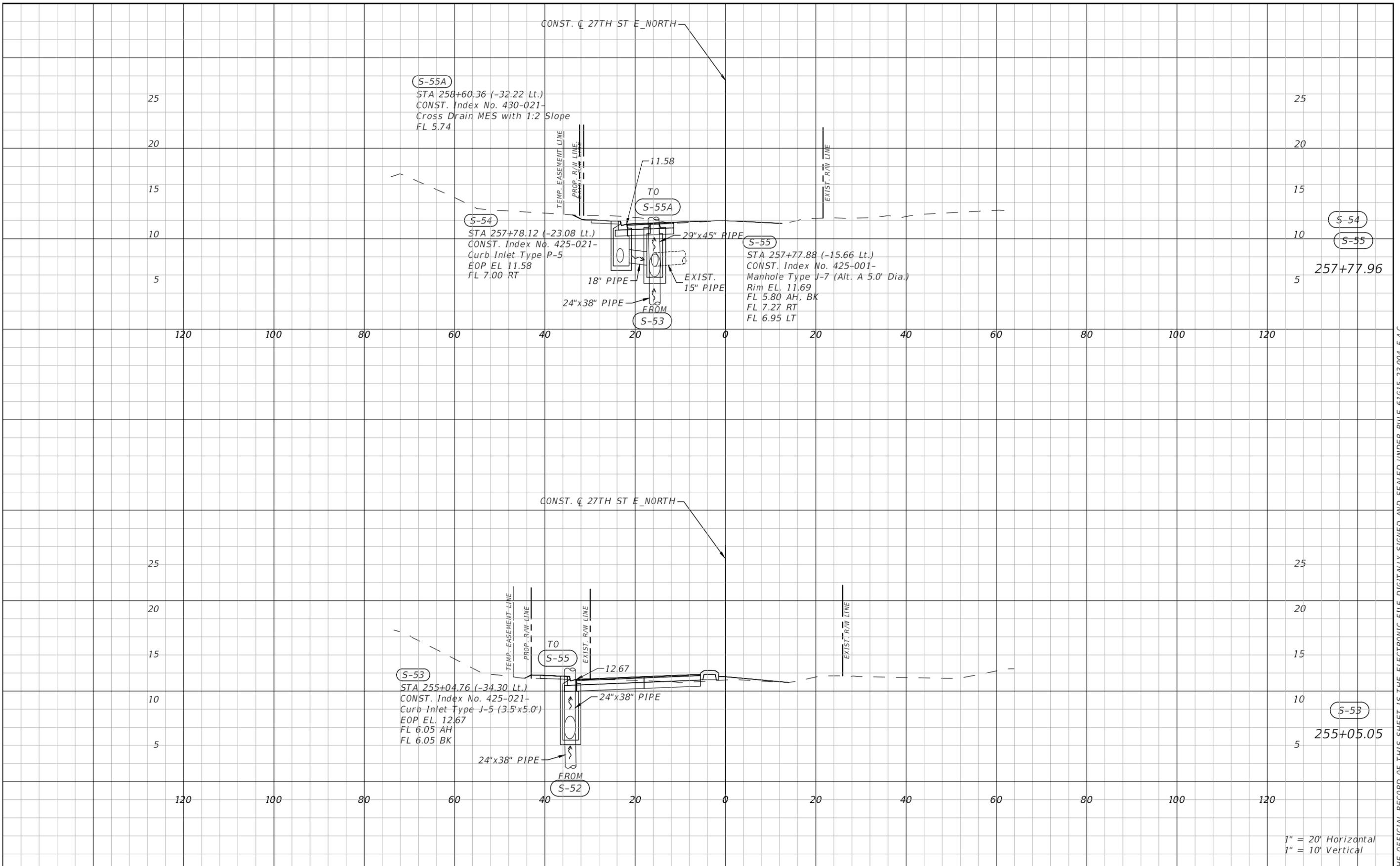
S-51  
251+04.05

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	CRAIG A. JENNE, P.E.	DRAINAGE STRUCTURES (6)
				ZSG		PROJECT NO. 6096560	FL. LICENSE NO. 69269	
				BJB				
				JWD				



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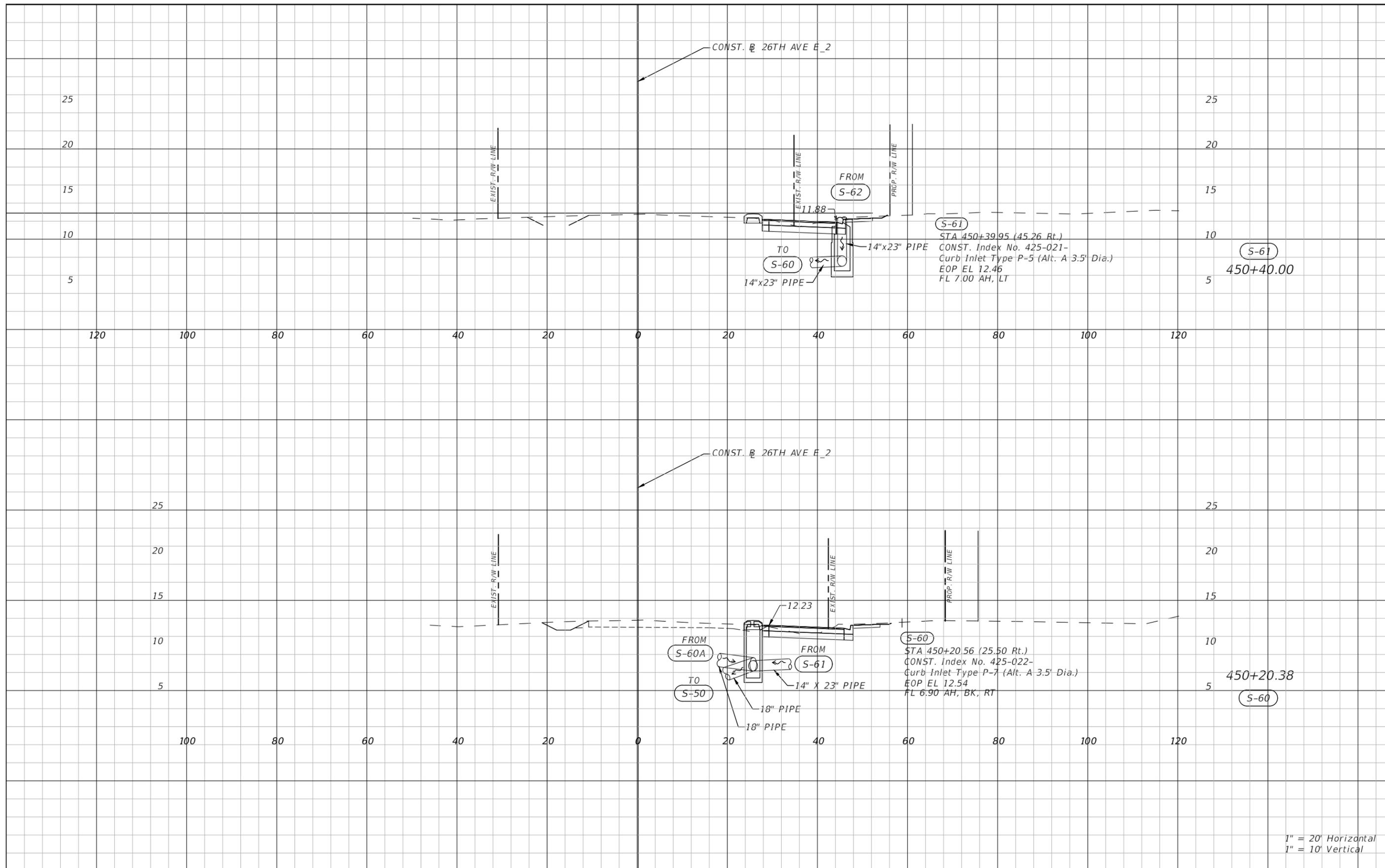
1" = 20' Horizontal  
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NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	CRAIG A. JENNE, P.E.	DRAINAGE STRUCTURES (7)
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				ZSG	6096560	69269	37
				DRAWN BY			
				BJB			
				CHECKED BY			
				JWD			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823



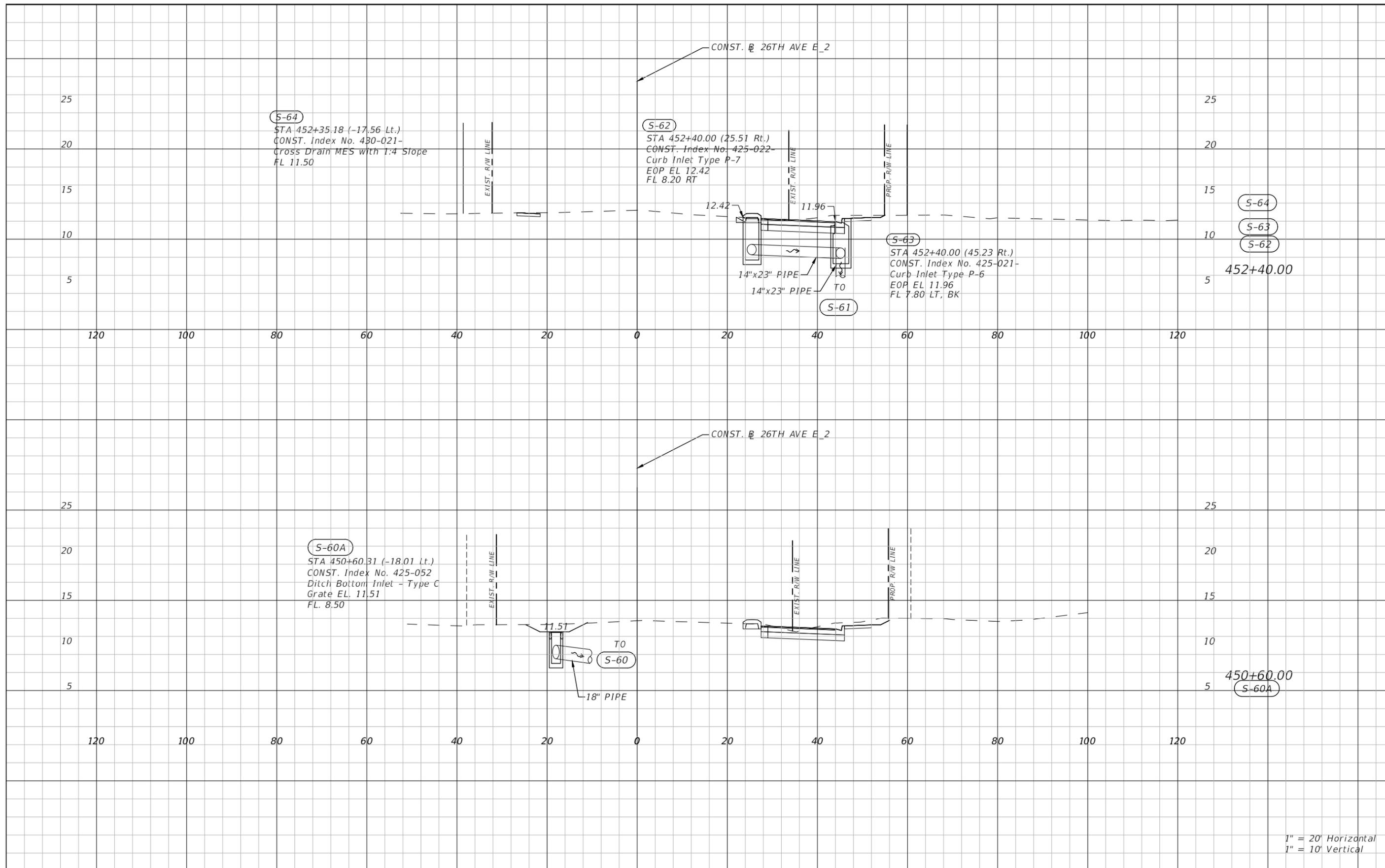
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE - DIGITALLY SIGNED AND SEALED - UNDER RULE 61G15-23.004, F.A.C.



1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	<b>DRAINAGE STRUCTURES (8)</b>	SHEET NO.
				AS NOTED	JULY 2024		CRAIG A. JENNE, P.E.		
				DESIGNED BY	ZSG		PROJECT NO.		FL. LICENSE NO.
				DRAWN BY	BJB		6096560		69269
				CHECKED BY	JWD				
HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823								38	

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1" = 20' Horizontal  
1" = 10' Vertical

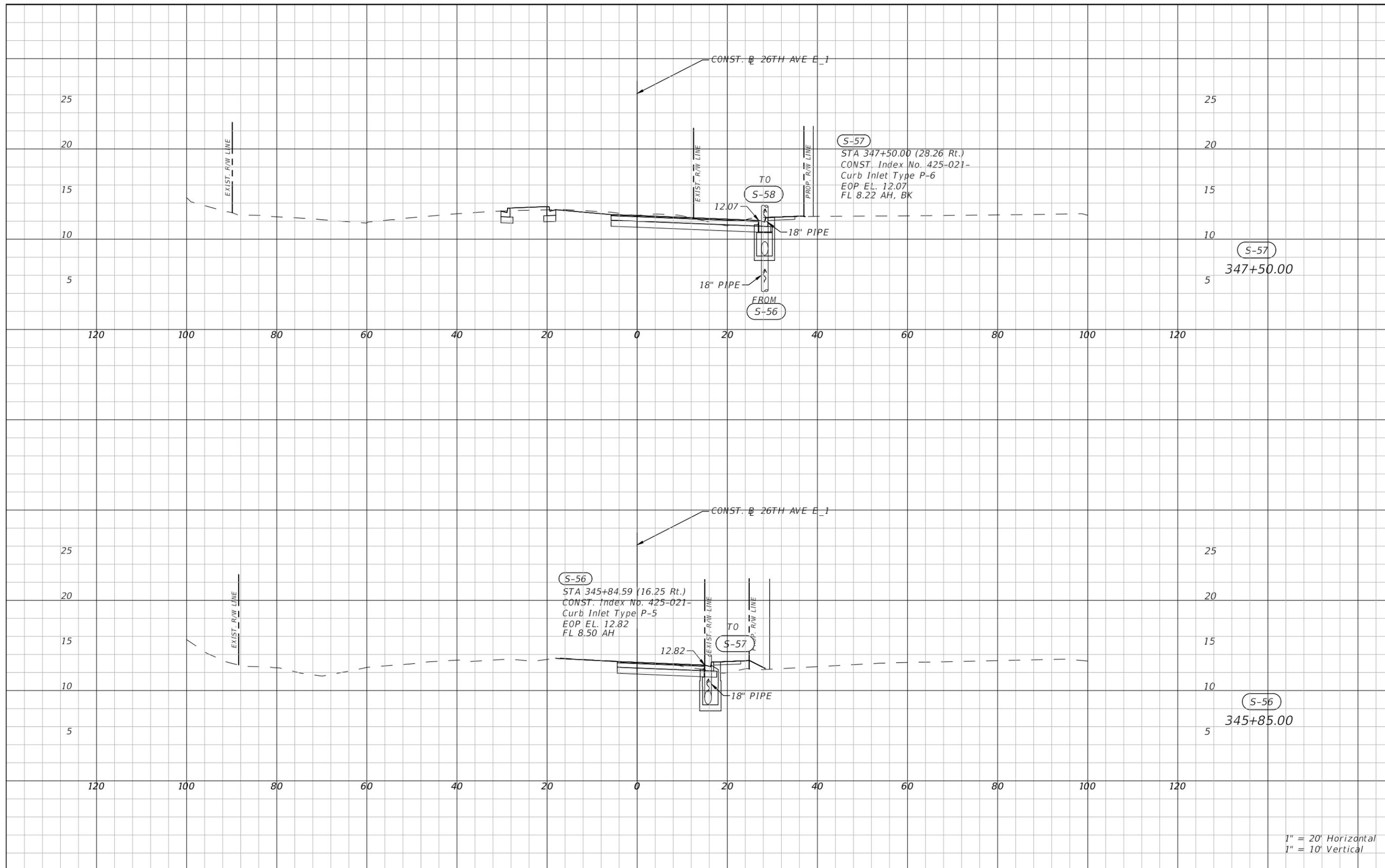
NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	CRAIG A. JENNE, P.E.	39
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				ZSG	6096560	69269	
				DRAWN BY			
				BJB			
				CHECKED BY			
				JWD			

HARDESTY & HANOVER, LLC  
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SUITE 310  
TAMPA, FL 33634  
(813)749-0823



**DRAINAGE STRUCTURES (9)**

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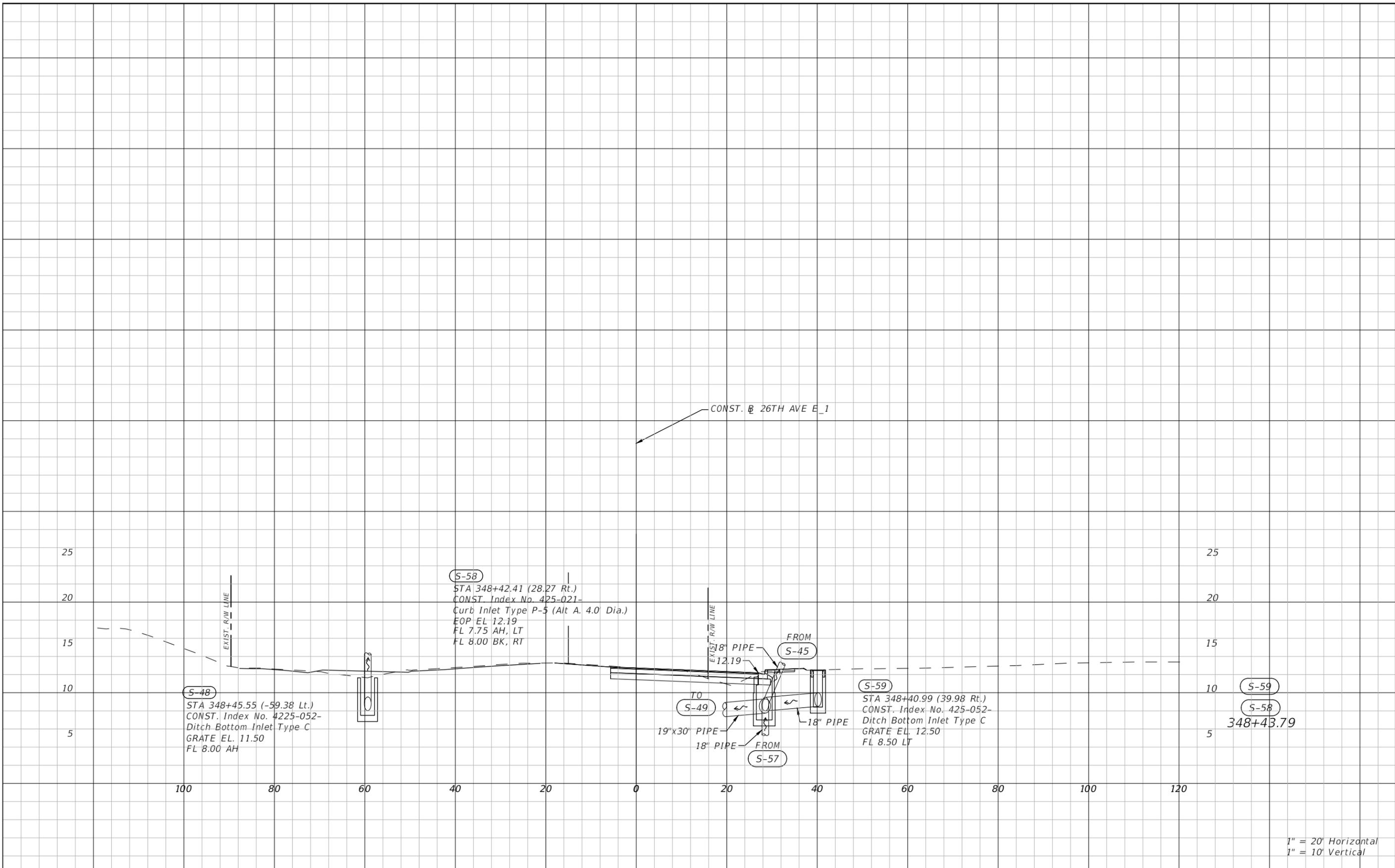
NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	CRAIG A. JENNE, P.E.	40
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				DRAWN BY	6096560	69269	
				CHECKED BY			

HARDESTY & HANOVER, LLC  
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SUITE 310  
TAMPA, FL 33634  
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**DRAINAGE STRUCTURES (10)**

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1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	<b>DRAINAGE STRUCTURES (11)</b>	SHEET NO.
				AS NOTED	JULY 2024		CRAIG A. JENNE, P.E.		
				DESIGNED BY	ZSG		PROJECT NO.		FL. LICENSE NO.
				DRAWN BY	BJB		6096560		69269
				CHECKED BY	JWD				
				HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823				41	

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**I. SITE DESCRIPTION**

**A. CONSTRUCTION ACTIVITY**

CONSTRUCTION ACTIVITIES ARE CLEARING, GRUBBING, ROADWAY AND PEDESTRIAN SAFETY IMPROVEMENTS, INTERSECTION IMPROVEMENTS, SIDEWALK CONSTRUCTION, STORM SEWER INSTALLATION OF CURB AND GUTTER, POND CONSTRUCTION, CANAL WIDENING, EARTHWORK AND OTHER MISCELLANEOUS CONSTRUCTION ACTIVITIES.

**B. PROJECT LIMITS**

THE PROJECT LIMITS ARE FROM 38TH AVENUE EAST TO NORTH OF 26TH AVENUE EAST. THE PROJECT LENGTH IS APPROXIMATELY 0.91 MILES.

**C. PROJECT DESCRIPTION**

THIS PROJECT WILL PROVIDE IMPROVEMENTS ALONG THE RESIDENTIAL CORRIDOR BY ADDING PEDESTRIAN AND BICYCLE FACILITIES, ROADWAY IMPROVEMENTS, TURN LANES, LIGHTING, DRAINAGE AND SIGNALIZATION IMPROVEMENTS. THE PROJECT INVOLVES CONSTRUCTION OF A STORMWATER MANAGEMENT FACILITY, FLOODPLAIN COMPENSATION SITE (SUGARHOUSE CREEK) AND APPROXIMATELY 1,000 LF OF WIDENING OF THE MOCKINGBIRD CANAL ALONG 34TH AVENUE EAST.

**D. MAJOR SOIL DISTURBING ACTIVITIES**

CLEARING, GRUBBING, EXCAVATION AND GRADING ACTIVITIES FOR THE CONSTRUCTION OF THE PROPOSED ROADWAY, POND AND CANAL WIDENING.

**E. TOTAL PROJECT AREA: 18.5 ACRES**  
**TOTAL AREA TO BE DISTURBED: 18.5 ACRES**

**F. RUNOFF DATA**

PROPOSED IMPERVIOUS AREA WILL INCREASE RUNOFF, HOWEVER, THE EXISTING MASTER DRAINAGE SYSTEMS OF UNIVERSITY PLACE AND CAROLINA LANDINGS POND WILL PROVIDE ATTENUATION OF INCREASE RUNOFF.  
 PRE-CONSTRUCTION C-VALUE = 0.45  
 DURING CONSTRUCTION C-VALUE = 0.47  
 POST CONSTRUCTION C-VALUE = 0.50

**G. SOIL DATA**

BASED ON THE CURRENT USDA NATURAL RESOURCE SERVICE SOIL SURVEY OF MANATEE COUNTY, FLORIDA, PROJECT CONSISTS OF PRIMARILY OF EAUGALLIE-EAUGALLIE WET, FINE SAND.

**H. DRAINAGE AREA (ATTACH DRAINAGE MAP OR PROVIDE DRAINAGE AREA IN ACRES)**

SEE DRAINAGE MAP ON SHEET 5 AND 6.

**I. RECEIVING WATERS**

BRADEN RIVER

**J. WETLANDS AREAS**

0.02 ACRES OF FILL IMPACTS.

**II. CONTROLS**

ALL CONTROLS SHALL BE CONSISTENT WITH PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORM-WATER TREATMENT SET FORTH IN s.62-40.432, F.A.C., THE APPLICABLE STORM-WATER OR ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE DEPARTMENT OR A WATER MANAGEMENT DISTRICT AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (DEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

**A. SEQUENCE OF MAJOR ACTIVITIES**

CLEARING AND GRUBBING OF EARTHWORK ASSOCIATED WITH THE PROPOSED INLETS AND OUTFALL CONSTRUCTION OF ALL DRAINAGE INLETS, OUTFALL, MILLING & RESURFACING, AND DRIVEWAYS.

WHEN CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE EROSION PROTECTION DEVICES AND CONSTRUCTION ENTRANCE AS REQUIRED.

**B. EROSION AND SEDIMENT CONTROL CONSTRUCTION ACTIVITIES**

REVIEW THE SITE SPECIFIC EROSION CONTROL PLAN AND MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS OR SITE CONDITIONS. COMPLY WITH E & S PLAN. ANY MODIFICATIONS TO THIS PLAN MUST BE SIGNED BY A PROFESSIONAL ENGINEER REPRESENTING THE CONTRACTOR. THE EROSION CONTROL DEVICES, DETAILS, AND NOTES APPLICABLE TO THESE ACTIVITIES ARE SPECIFIED IN THE PLANS. THE PROJECT ENGINEER IS RESPONSIBLE FOR DETERMINING IF ADDITIONAL CONTROLS ARE THE PROJECT ENGINEER MAY REQUIRE ADDITIONAL CONTROLS TO MEET STANDARDS AND REGULATIONS.

PERFORM DAILY INSPECTION OF EROSION AND SEDIMENT CONTROLS AFTER EVERY 1/2" RAINFALL. REMOVE ALL SEDIMENTS THAT HAVE MIGRATED OFF SITE AS DIRECTED BY THE ENGINEER.

**C. STABILIZATION PRACTICES**

DURING CONSTRUCTION PROVIDE STABILIZATION FOR AREAS WHICH HAVE BEEN CLEARED AND NOT REWORKED WITHIN FOURTEEN (14) CALENDAR DAYS. UTILIZE TEMPORARY SEEDING OR TEMPORARY SODDING IN ACCORDANCE WITH SECTION 570 OF THE "FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

- TEMPORARY SODDING
- TEMPORARY GRASSING
- PERMANENT SODDING OR SEEDING
- PRESERVATION OF NATURAL RESOURCES
- BUFFER ZONES

**D. STRUCTURAL PRACTICES**

- ARTIFICIAL COVERINGS/ ROLLED EROSION CONTROL PRODUCTS (SY)
- INLET PROTECTION SYSTEM (EA)
- LITTER REMOVAL AND DISPOSAL (AC)
- MOWING (AC)
- SLOPE DRAINS (TEMPORARY)/ RUNOFF CONTROL STRUCTURES (LF)
- SOIL TRACKING PREVENTION DEVICE (EA)
- SEDIMENT BASINS/CONTAINMENT SYSTEMS (EA)
- SEDIMENT BASIN/ CONTAINMENT SYSTEM CLEANOUT (EA)
- FLOATING TURBIDITY BARRIER (LF)
- SEDIMENT BARRIERS (LF)
- CHEMICAL TREATMENT - POWDERED (SY)
- CHEMICAL TREATMENT (FLOC LOGS, DRUMS OF PRODUCT) (EA)
- OTHER

**E. DESCRIPTION OF STORM WATER MANAGEMENT**

ROADWAY RUNOFF WILL BE COLLECTED BY INLETS LOCATED ALONG THE ROADWAY AND DISCHARGE TO THE MOCKINGBIRD CANAL AT 34TH AVE. E. AND THE 30TH AVE. E. CANAL.

**F. WASTE DISPOSAL**

PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES. ANY CHEMICAL CONTAINERS SHALL BE DISPOSED OF ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER. NO SOLID MATERIALS INCLUDING BUILDING & CONSTRUCTION MATERIALS SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE. ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN DUMPSTERS PER LOCAL SOLID WASTE REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED A MINIMUM OF TWICE A WEEK OR MORE OFTEN IF NECESSARY, AND THE TRASH WILL BE HAULED TO THE APPROPRIATE COUNTY LOCATION FOR DUMPING.

**G. OFFSITE VEHICLE TRACKING**

STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREETS WILL BE CLEANED AS DIRECTED BY THE CONSTRUCTION INSPECTOR AND ENGINEER TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM OR TO THE SITE WILL BE COVERED WITH A TARPAULIN AT ALL TIMES.

**H. SANITARY WASTE**

FDOT STANDARD SPEC. FOR ROAD AND BRIDGE CONSTRUCTION" SECTION 7 - 6 "SANITARY PROVISIONS. "THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN A NEAT AND SANITARY CONDITION, SUCH ACCOMMODATION FOR THE USE OF HIS EMPLOYEES AS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. COMMIT NO PUBLIC NUISANCE."

**I. HAZARDOUS WASTE**

IMMEDIATELY NOTIFY THE COUNTY IN WRITING IF ANY HAZARDOUS WASTE MATERIAL IS ENCOUNTERED DURING SITE INVESTIGATION OR CONSTRUCTION.

NOTIFY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) WITHIN 24 HOURS OF THE DISCOVERY.

ALL HAZARDOUS WASTE MATERIALS, IF ENCOUNTERED, WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL, STATE, AND FEDERAL REGULATIONS.

IN CASE OF DISPOSING ANY HAZARDOUS WASTE MATERIAL FOLLOWING LOCAL, STATE, AND FEDERAL REGULATIONS, A COPY OF DISPOSAL MANIFEST HAS TO BE PROVIDED TO THE COUNTY IN TIMELY FASHION.

**J. WATER QUALITY MONITORING (MIXING ZONES)**

THE WATER THAT WILL BE SAMPLED FOR STATE WATER QUALITY STANDARDS FOR CONSTRUCTION ACTIVITIES PROHIBIT A TURBIDITY INCREASE OF GREATER THAN 29 NTU'S ABOVE AMBIENT CONDITIONS AT THE COMPLIANCE LOCATION OF THE MIXING ZONES. TO MAINTAIN THIS STANDARD, TURBIDITY MONITORING SHALL OCCUR DURING ALL IN-WATER CONSTRUCTION ACTIVITIES AT EACH COMPLIANCE AND BACKGROUND STATION. THE FOLLOWING PROCEDURE SHALL BE USED:

**FREQUENCY:** TWICE A DAY, AT LEAST 4 HOURS APART DURING FREQUENCY OF ACTUAL CONSTRUCTION OPERATIONS.

**LOCATIONS:** ALL STATIONS SHALL BE SAMPLED AT 2 FEET ABOVE LOCATIONS THE BOTTOM, AT MID-DEPTH, AND AT THE SURFACE, OR AS DIRECTED BY PERMITTING AGENCIES. IF WATER IS LESS THAN THREE FEET DEEP, ONLY MID-DEPTH SAMPLES ARE REQUIRED.

**BACKGROUND:** 500 FEET UP-CURRENT FROM THE CONSTRUCTION BACKGROUND ACTIVITY AND OUTSIDE OF ANY TURBIDITY PLUME FROM THE CONSTRUCTION ACTIVITY.

**COMPLIANCE:** 300 FEET DOWN CURRENT FROM THE CONSTRUCTION COMPLIANCE ACTIVITY WITHIN ANY VISIBLE TURBIDITY PLUME, OR AS DIRECTED BY PERMITTING AGENCIES.

**METHOD:** ALL SAMPLES SHALL BE COLLECTED WITH A KEMMERER, VAN DORN METHOD, OR SIMILAR SAMPLER WHICH IS DESIGNED TO COLLECT IN SITU WATER SAMPLES.

**REPORTING:** ALL MONITORING DATA SHALL BE SUBMITTED WITHIN ONE REPORTING WEEK OF ANALYSIS WITH DOCUMENTS CONTAINING THE FOLLOWING INFORMATION:

1. PERMIT NUMBER: TBD
2. DATES OF SAMPLING AND ANALYSIS
3. LOCATION OF SAMPLE (I.E., STATION AND WATER COLUMN LOCATION)
4. A STATEMENT DESCRIBING THE METHODS USED IN COLLECTION, HANDLING,
5. STORAGE, AND ANALYSIS OF THE SAMPLES
6. A MAP INDICATING THE SAMPLING LOCATIONS
7. STATEMENT, BY THE INDIVIDUAL RESPONSIBLE FOR IMPLEMENTATION OF THE SAMPLING PROGRAM, CONCERNING THE AUTHENTICITY, PRECISION, LIMITS OF DETECTION AND ACCURACY OF DATA.

MONITORING REPORTS SHALL INCLUDE INFORMATION ON THE GENERAL ANTECEDENT WEATHER CONDITIONS.

IF MONITORING REVEALS VIOLATIONS OF THE STATE WATER QUALITY STANDARD FOR TURBIDITY, CONSTRUCTION ACTIVITIES SHALL CEASE IMMEDIATELY AND NOT RESUME UNTIL CORRECTIVE MEASURES HAVE BEEN TAKEN AND TURBIDITY HAS RETURNED TO ACCEPTABLE LEVELS. ANY SUCH OCCURRENCE SHALL ALSO BE IMMEDIATELY REPORTED TO THE REGULATORY AGENCIES. IN THE EVENT THAT STATE WATER QUALITY STANDARDS ARE NOT ATTAINED, IMPLEMENT A CONTINGENCY PLAN WHICH COMPLIES WITH THE PROJECT SWFWMD/FDEP ERP AND MANATEE COUNTY NPDES REQUIREMENTS AT NO ADDITIONAL COST TO THE COUNTY. ANY FINES SHALL BE RESPONSIBILITY OF THE CONTRACTORS.

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823	JULY 2024	CRAIG A. JENNE, P.E.	
				ZSG		PROJECT NO. 6096560	FL. LICENSE NO. 69269	
				BJB				
				JWD				



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

Skylar Casanova

5/10/2024 6:05:46 PM

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**STORMWATER POLLUTION PREVENTION PLAN (1)**

K. APPROVED STATE, LOCAL PLANS, OR STORM WATER PERMITS  
SWFWMD ERP AND NPDES

III. MAINTENANCE

A. ALL OF THE CONTROLS SHALL BE MAINTAINED AT ALL TIMES.

DAILY INSPECTION AND MAINTENANCE OF ALL PERMANENT AND TEMPORARY EROSION CONTROL DEVICES IS REQUIRED THROUGHOUT ALL CONSTRUCTION PHASES OF THE PROJECT. MAINTENANCE SHALL BE IN ACCORDANCE WITH MANATEE COUNTY D.E.I. "STANDARD TECHNICAL SPECIFICATIONS FOR ROADWAY AND RELATED CONSTRUCTION", AND THE PROJECT CONSTRUCTION CONTRACT.

B. INSPECTION

THE COUNTY INSPECTOR SHALL BE RESPONSIBLE FOR COMPLETING THE MANATEE COUNTY D.E.I. NPDES / SWPPP CONSTRUCTION INSPECTION REPORT AFTER ANY 1/2" RAINFALL OR WEEKLY, IF NO RAIN EVENT OCCURRED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAIN FALL. THE COUNTY INSPECTOR SHALL ALSO COMPLETE THE MANATEE COUNTY D.E.I. NPDES COMPLIANCE CHECKLIST FOR CONSTRUCTION SITES.

C. NON-STORM WATER DISCHARGES

IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES MAY OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:

- WATER FROM WATER LINE FLUSHING
- PAVEMENT WASH WATERS (WHERE NO SPILL OR LEAKS OF VEHICLE AND HAZARDOUS MATERIALS HAVE OCCURRED)
- UNCONTAMINATED GROUNDWATER FROM DE-WATERING ACTIVITIES

ALL NON-STORM WATER DISCHARGES WILL BE DIRECTED TO THE SEDIMENT BASIN PRIOR TO DISCHARGE OR AS DIRECTED BY THE ENGINEER. IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, DEWATERING SHOULD CEASE IMMEDIATELY AND THE ENGINEER WILL BE CONTACTED.

D. MATERIAL MANAGEMENT PRACTICES

THE FOLLOWING ARE THE MATERIAL HANDLING PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF:

1. THE FOLLOWING GOOD HOUSEKEEPING PRACTICES SHALL BE FOLLOWED ON-SITE DURING THE CONSTRUCTION PROJECT.
  - STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB ON SITE.
  - ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL MANUFACTURER'S LABELED CONTAINERS UNDER A ROOF OR OTHER CONTAINED ENCLOSURE.
  - SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
  - WHENEVER POSSIBLE, ALL OF A PRODUCT SHALL BE USED BEFORE DISPOSING OF THE CONTAINER. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
  - THE SITE SUPERINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ON-SITE.
2. THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
  - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RE-SEALABLE.
  - SECONDARY CONTAINMENT SHALL BE PROVIDED FOR ALL OPENED CONTAINERS. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE KEPT ON-SITE ON THE CONSTRUCTION OFFICE TRAILER.
  - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL STATE RECOMMENDED METHODS OF PROPER DISPOSAL SHALL BE FOLLOWED.
  - IDENTIFY A DESIGNATED FUEL TANK STORAGE AREA, AWAY FROM DRAINAGE STRUCTURES,

PONDS, BASINS, AND WETLANDS, WITH SECONDARY CONTAINMENT (SPILL COLLECTION).

3. CONCRETE TRUCKS

- DESIGNATE AN AREA AWAY FROM DRAINAGE STRUCTURES, PONDS, BASINS, AND WETLANDS FOR DISCHARGE OF SURPLUS CONCRETE OR DRUM WASH WATER AND INSTALL A CONTAINMENT BERM AROUND THIS AREA TO PREVENT RUNOFF TO THE REMAINDER OF THE SITE.
- HARD DEBRIS SHALL BE DISPOSED OF UPON COMPLETION OF THE PROJECT.
- DISPOSAL OF CONCRETE SLURRY DIRECTLY INTO PUBLIC DRAINAGE SYSTEMS IS A VIOLATION OF THE "ILLEGAL DISCHARGE" PROVISION OF THE MANATEE COUNTY LAND DEVELOPMENT CODE. SECTION 58-239 OF THE MANATEE COUNTY CODE AUTHORIZES PENALTIES OF UP TO \$10,000.00 FOR EACH OFFENSE.

4. SPILL CONTROL PRACTICES

IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIALS MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION CLEANUP SUPPLIES.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- PREPARE THE SPILL PREVENTION PLAN AND KEEP IN THE CONSTRUCTION OFFICE TRAILER AND WILL INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE ARE OTHERS. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED. ALL SPILLS AND RESPONSES WILL BE REPORTED TO THE APPROPRIATE AGENCY.
- THE SITE SUPERINTENDENT WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR, AND WILL DESIGNATE OTHER SITE PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ON SITE.
- USE AND CHARACTERISTICS OF FUEL OR CHEMICAL STORAGE TANK ON SITE SHALL COMPLY WITH ALL RELATED FEDERAL, STATE, AND LOCAL REGULATIONS. STORAGE TANKS MUST BE LOCATED AS FAR AS POSSIBLE FROM ANY DRAINAGE STRUCTURES, DITCHES, AND/OR SURFACE WATERS. IN ADDITION, PROVIDE A SECONDARY CONTAINMENT WITH A LINER CHEMICALLY RESISTANT TO THE FUEL OR CHEMICAL STORED ON SITE. THE SECONDARY CONTAINMENT MUST BE SIZED TO CONTAIN MINIMUM OF ONE AND A HALF TIME THE TOTAL CAPACITY OF STORAGE TANK BEING USED. PROVIDE A DAILY INSPECTION LOG FOR THE SECONDARY CONTAINMENT WITH INDICATION OF DATE, INSPECTORS NAME AND INSPECTION REPORT. FURTHERMORE, ANY CONTAMINATION HAS TO BE IMMEDIATELY CONTAINED AND THE COUNTY INSPECTOR MUST BE NOTIFIED OF THE NATURE AND EXTEND OF THE CONTAMINATION.

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	CRAIG A. JENNE, P.E.	43
				DESIGNED BY ZSG	PROJECT NO. 6096560	FL. LICENSE NO. 69269	
				DRAWN BY BJB			
				CHECKED BY JWD			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813) 749-0823



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

Skylar Casanova

5/10/2024 6:05:48 PM

STORMWATER POLLUTION  
PREVENTION PLAN (2)

G:\Projects\Manatee County\3285.01 - 27th Street\3285.01\6096560000\Drainage\SWPPRD01.dwg

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

# MANATEE COUNTY PUBLIC WORKS

**MANATEE COUNTY PROJECT NO. 6096260, 6096560, 5400033, 5400034**  
**PROJECT NAME: 27TH STREET EAST IMPROVEMENTS FROM 26TH AVE. EAST TO 38TH AVE. EAST**

## CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

DATE OF SURVEY: JUNE 2019 TO APRIL 2022  
 SURVEY MADE BY: TIERRA, INC.  
 SUBMITTED BY: JOSEPH R. ANTINORI, P.E.

SURVEY BEGINS STA. : <u>112+55.00</u>	SURVEY ENDS STA. : <u>149+57.43</u>	REFERENCE : <u>R CONST. 27TH STREET SOUTH</u>
SURVEY BEGINS STA. : <u>249+57.43</u>	SURVEY ENDS STA. : <u>258+78.00</u>	REFERENCE : <u>R CONST. 27TH STREET NORTH</u>
SURVEY BEGINS STA. : <u>342+40.00</u>	SURVEY ENDS STA. : <u>348+38.19</u>	REFERENCE : <u>R CONST. 26TH AVENUE E_1</u>
SURVEY BEGINS STA. : <u>450+31.02</u>	SURVEY ENDS STA. : <u>456+78.00</u>	REFERENCE : <u>R CONST. 26TH AVENUE E_2</u>

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 ohms cm	CHLORIDE ppm	SULFATES ppm	pH
1	---	---	---	---	6	77-100	70-97	59-85	29-49	2-8	---	---	---	A-3	GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS	2	3,000-12,000	30	<5-24	7.6-8.5
2	---	---	3	13-20	5	92-95	87	75-76	47-48	14-22	3	NP	NP	A-2-4	GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS	2	3,100-3,400	45	<5	7.7-7.9
3	1	4	3	19-22	3	---	---	---	---	24-27	2	25-28	10	A-2-4	GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CLAY NODULES	---	---	---	---	---
4	---	---	---	---	7	---	---	---	---	22-58	7	28-38	9-21	A-2-6/A-4/A-6	GRAY TO DARK BROWN SILTY-CLAYEY SAND TO CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL	---	---	---	---	---
5	---	---	1	44	1	---	---	---	---	66	1	80	46	A-7-5/A-7-6	GRAY TO DARK BROWN SANDY CLAY TO CLAY SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	WEATHERED LIMESTONE/CAPROCK	---	---	---	---	---

**NOTES:**

1. THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001. 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.
3. THE MATERIAL FROM STRATUM 3 AND 4 (A-2-4/A-2-6/A-6/A-4) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.
4. THE MATERIAL FROM STRATUM 5 (A-7-6/A-7-5) IS HIGH PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 120-001.

**EMBANKMENT AND SUBGRADE MATERIAL**

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

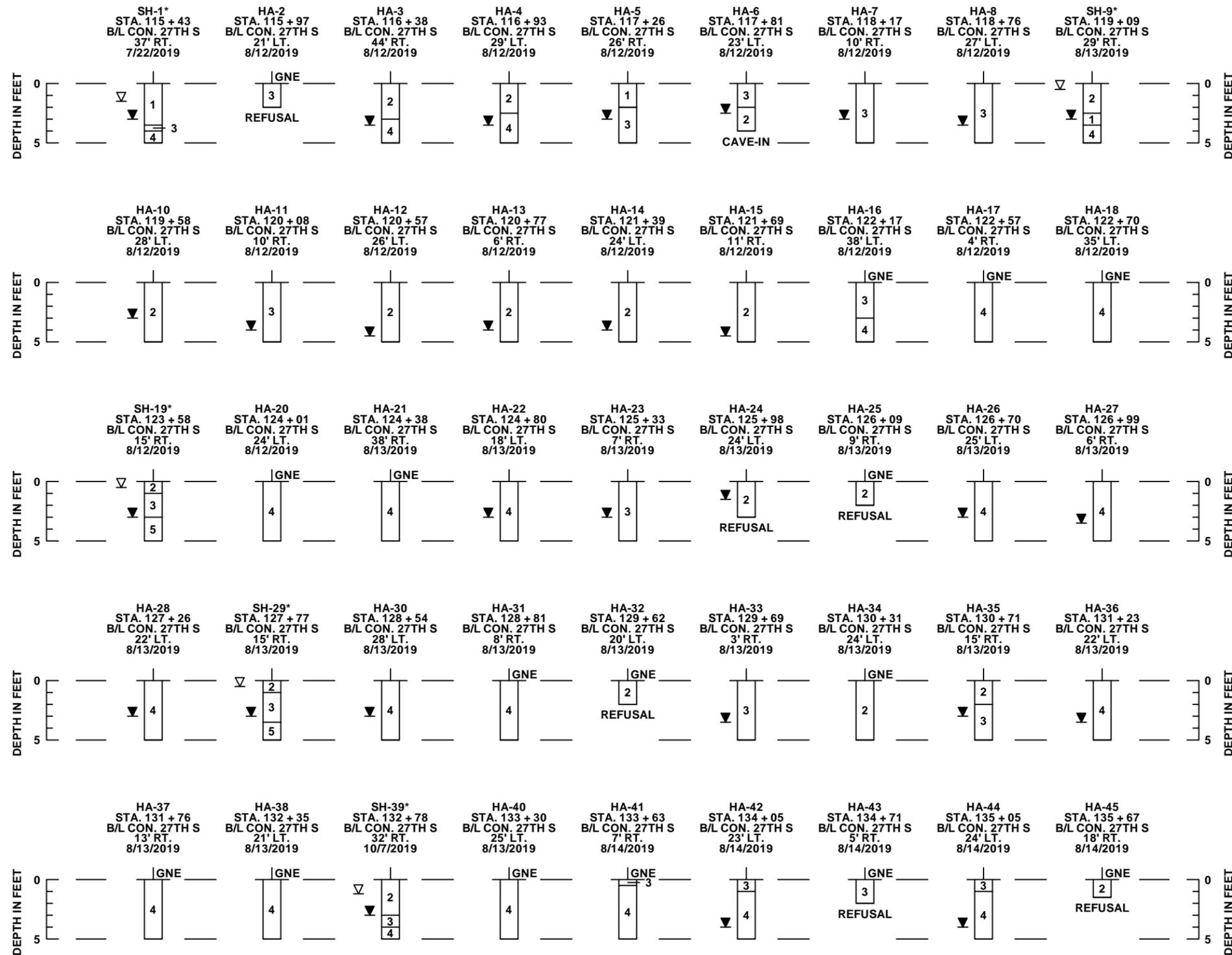
- ▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ▼ - GROUNDWATER TABLE ENCOUNTERED DURING INVESTIGATION
- GNE - GROUNDWATER NOT ENCOUNTERED
- GNA - GROUNDWATER NOT APPARENT DUE TO DRILLING METHOD USED
- NP - NON PLASTIC

5. WEATHERED LIMESTONE/CAPROCK WAS ENCOUNTERED WITHIN THE BORINGS. THIS MATERIAL IS ROCK AND IS LOCATED AT SHALLOW DEPTHS. EXCAVATIONS INTO AND/OR THROUGH LIMESTONE/CAPROCK WILL BE DIFFICULT AND WILL REQUIRE NON CONVENTIONAL CONSTRUCTION TECHNIQUES AND SPECIALIZED EQUIPMENT. LIMESTONE/CAPROCK IS POROUS AND WILL BE DIFFICULT TO DEWATER.
6. SOILS PLACED ABOVE THE 1:2 CONTROL LINE (AS DEPICTED ON FDOT STANDARD PLANS INDEX 120) FROM STATION 117+26 RT. TO 120+57 RT. AND 139+05 RT. TO 143+15 RT. SHALL CONSIST OF A-3 SOIL TO FACILITATE THE FLOW OF WATER BENEATH THE ROADWAY TOWARDS THE ROADSIDE SWALE.

NO.	REVISIONS	DATE	BY	SCALE	 <p><b>TIERRA</b> 7351 Temple Terrace Highway Tampa, Florida 33637 Phone: 813-989-1354 Fax: 813-989-1355 FL Cert. No.: 6486</p>	DATE	 <p><b>Manatee County</b> FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208</p>	DESIGN ENGINEER	<p><b>27TH ST. EAST IMPROVEMENTS</b>  <b>SOIL SURVEY</b></p>	SHEET NO.
				AS NOTED		APR. 2022		JOSEPH R. ANTINORI, P.E.		
				DESIGNED BY		PROJECT NO.		FL. LICENSE NO.		
				DRAWN BY		6096260 5400033		73176		
				CHECKED BY		6096560 5400034				
				DN					44	

# SOIL PROFILES

# LEGEND

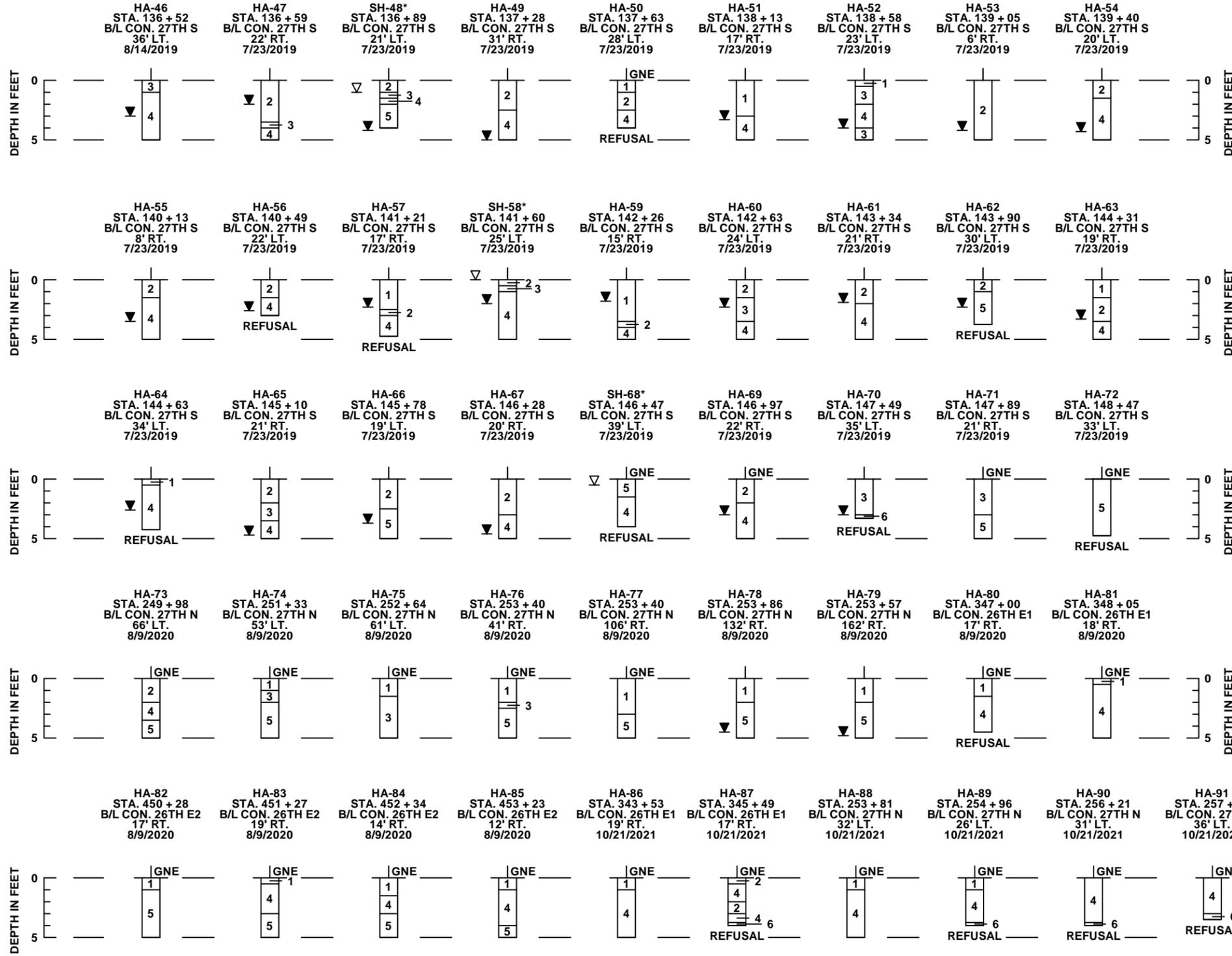


- 1 GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-3)
- 2 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-2-4)
- 3 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CLAY NODULES (A-2-4)
- 4 GRAY TO DARK BROWN SILTY-CLAYEY SAND TO CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-2-6/A-4/A-6)
- 5 GRAY TO DARK BROWN SANDY CLAY TO CLAY SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-7-5/A-7-6)
- 6 WEATHERED LIMESTONE/CAPROCK
- ▽ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- ∇ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- GNE GROUNDWATER TABLE NOT ENCOUNTERED
- REFUSAL REFUSAL DUE TO LIMESTONE/CAPROCK AND/OR CEMENTED SAND/HARDPAN
- CAVE-IN CAVE-IN DUE TO GROUNDWATER INTRUSION
- NOTE: THE BORING LOCATIONS DENOTED WITH AN ASTERISK (\*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITHIN A CONJUNCTION WITH PROJECT DESIGN FILES AND SHOULD BE THEREFORE CONSIDERED APPROXIMATE.
- B/L CON. 27TH S BASELINE CONSTRUCTION OF 27TH STREET SOUTH
- B/L CON. 27TH N BASELINE CONSTRUCTION OF 27TH STREET NORTH
- B/L CON. 26TH E1 BASELINE CONSTRUCTION OF 26TH AVENUE E\_1
- B/L CON. 26TH E2 BASELINE CONSTRUCTION OF 26TH AVENUE E\_2

NO.	REVISIONS	DATE	BY	SCALE	 7351 Temple Terrace Highway Tampa, Florida 33637 Phone: 813-989-1354 Fax: 813-989-1355 FL Cert. No.: 6486	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	<b>27TH ST. EAST IMPROVEMENTS</b> <b>ROADWAY SOIL PROFILES (1)</b>	SHEET NO.
				AS NOTED		APR. 2022		JOSEPH R. ANTINORI, P.E.		
				DESIGNED BY		PROJECT NO.		FL. LICENSE NO.		
				DRAWN BY		6096260 5400033		73176		
				CHECKED BY		6096560 5400034				
				DN					45	

# SOIL PROFILES

# LEGEND



- 1 GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-3)
- 2 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-2-4)
- 3 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CLAY NODULES (A-2-4)
- 4 GRAY TO DARK BROWN SILTY-CLAYEY SAND TO CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-2-6/A-4/A-6)
- 5 GRAY TO DARK BROWN SANDY CLAY TO CLAY SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-7-5/A-7-6)
- 6 WEATHERED LIMESTONE/CAPROCK
- ▽ GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- GNE GROUNDWATER TABLE NOT ENCOUNTERED
- REFUSAL REFUSAL DUE TO LIMESTONE/CAPROCK AND/OR CEMENTED SAND/HARDPAN
- CAVE-IN CAVE-IN DUE TO GROUNDWATER INTRUSION
- NOTE: THE BORING LOCATIONS DENOTED WITH AN ASTERISK (\*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITHIN A CONJUNCTION WITH PROJECT DESIGN FILES AND SHOULD BE THEREFORE CONSIDERED APPROXIMATE.
- B/L CON. 27TH S BASELINE CONSTRUCTION OF 27TH STREET SOUTH
- B/L CON. 27TH N BASELINE CONSTRUCTION OF 27TH STREET NORTH
- B/L CON. 26TH E1 BASELINE CONSTRUCTION OF 26TH AVENUE E\_1
- B/L CON. 26TH E2 BASELINE CONSTRUCTION OF 26TH AVENUE E\_2

NO.	REVISIONS	DATE	BY	SCALE	 7351 Temple Terrace Highway Tampa, Florida 33637 Phone: 813-989-1354 Fax: 813-989-1355 FL Cert. No.: 6486	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	<b>27TH ST. EAST IMPROVEMENTS</b> <b>ROADWAY SOIL PROFILES (2)</b>	SHEET NO.
				AS NOTED		APR. 2022		JOSEPH R. ANTINORI, P.E.		
				DESIGNED BY		PROJECT NO.		FL. LICENSE NO.		
				DRAWN BY		6096260 5400033		73176		
				CHECKED BY		6096560 5400034				
				DN					46	

# SOIL PROFILES

# LEGEND

BOR # B-1  
STA. 120+25  
REF. B/L CON. 27TH S  
OFF. 17' RT.  
DATE 1/3/2020

BOR # B-2  
STA. 122+31  
REF. B/L CON. 27TH S  
OFF. 45' LT.  
DATE 1/3/2020

BOR # B-3  
STA. 124+51  
REF. B/L CON. 27TH S  
OFF. 12' RT.  
DATE 1/3/2020

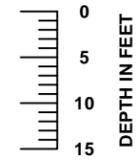
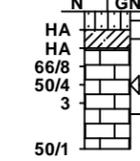
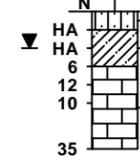
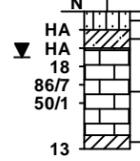
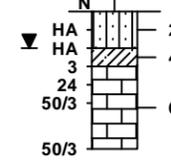
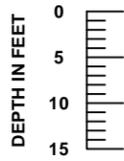
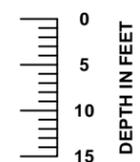
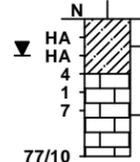
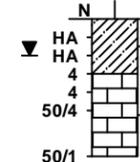
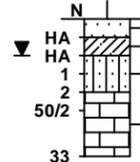
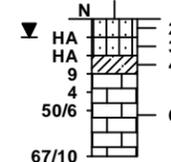
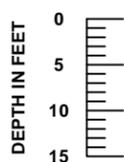
BOR # B-4  
STA. 132+19  
REF. B/L CON. 27TH S  
OFF. 13' RT.  
DATE 1/3/2020

BOR # B-5  
STA. 134+95  
REF. B/L CON. 27TH S  
OFF. 18' RT.  
DATE 12/30/2019

BOR # B-6  
STA. 140+72  
REF. B/L CON. 27TH S  
OFF. 17' RT.  
DATE 12/30/2019

BOR # B-7  
STA. 143+15  
REF. B/L CON. 27TH S  
OFF. 21' RT.  
DATE 1/3/2020

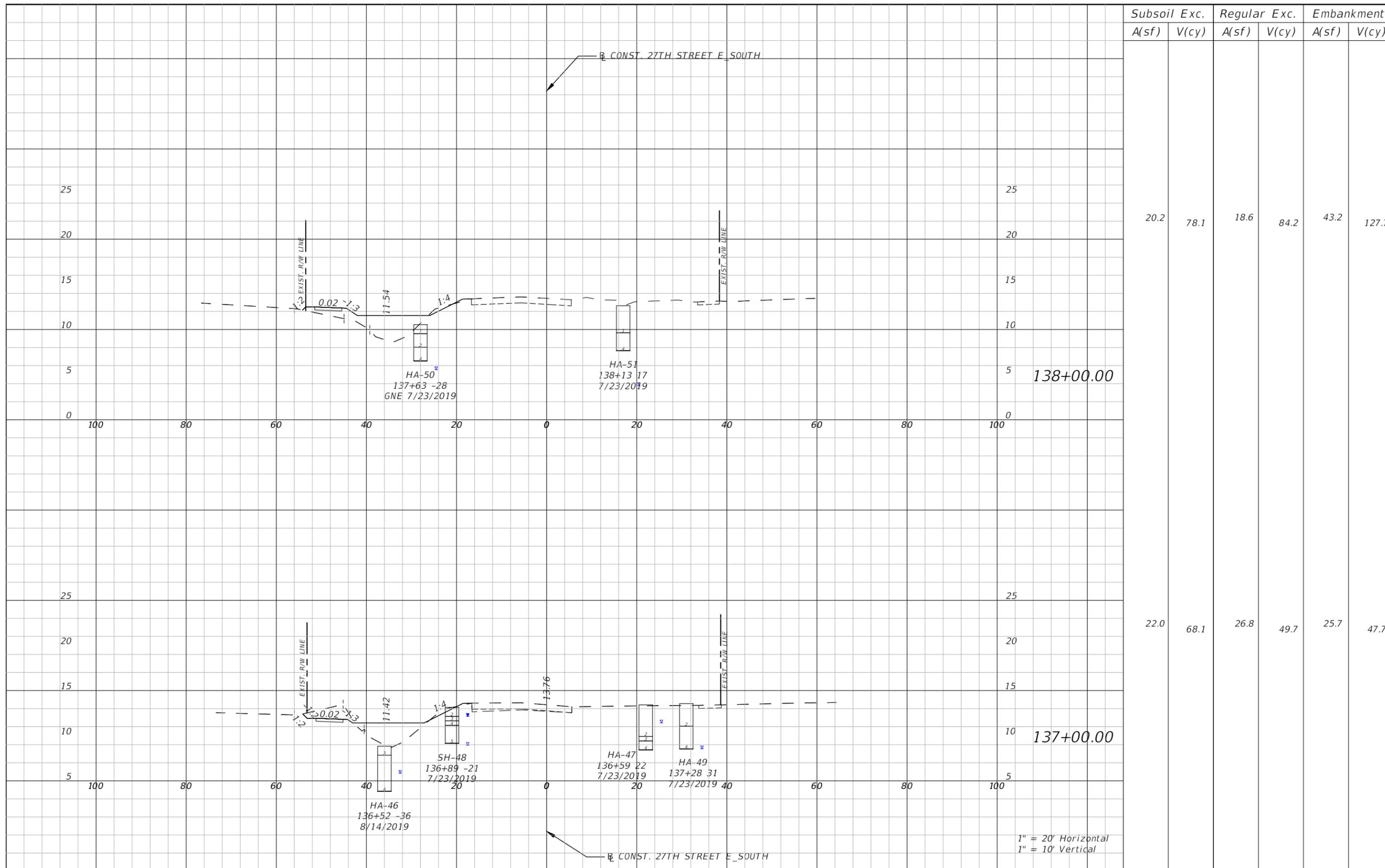
BOR # B-8  
STA. 148+03  
REF. B/L CON. 27TH S  
OFF. 26' LT.  
DATE 12/30/2019



- 1 GRAY TO BROWN SAND TO SAND WITH SILT SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-3)
- 2 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CEMENTED SANDS (A-2-4)
- 3 GRAY TO BROWN SILTY SAND SOMETIMES WITH LIMEROCK FRAGMENTS, SHELL, AND/OR CLAY NODULES (A-2-4)
- 4 GRAY TO DARK BROWN SILTY-CLAYEY SAND TO CLAYEY SAND SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-2-6/A-4/A-6)
- 5 GRAY TO DARK BROWN SANDY CLAY TO CLAY SOMETIMES WITH LIMEROCK FRAGMENTS AND/OR SHELL (A-7-5/A-7-6)
- 6 WEATHERED LIMESTONE/CAPROCK
- GROUNDWATER LEVEL ENCOUNTERED DURING INVESTIGATION
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 50/4 NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
- HA HAND AUGERED TO VERIFY UTILITY CLEARANCES
- LOSS OF CIRCULATION OF DRILLING FLUID (100%)
- B/L CON. 27TH S BASELINE CONSTRUCTION OF 27TH STREET SOUTH
- N SPT N-VALUE OBTAINED WITH AN AUTOMATIC HAMMER IN BLOWS/FOOT FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED)
- GNA GROUNDWATER NOT APPARENT DUE TO DRILLING METHOD USED
- NOTE: THE BORING LOCATIONS DENOTED WITH AN ASTERISK (\*) WERE PROVIDED BY THE PROJECT SURVEYOR. THE REMAINING BORING LOCATIONS WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITHIN A CONJUNCTION WITH PROJECT DESIGN FILES AND SHOULD BE THEREFORE CONSIDERED APPROXIMATE.

AUTOMATIC HAMMER	
GRANULAR MATERIALS- RELATIVE DENSITY	SPT (BLOWS/FT.)
VERY LOOSE	LESS THAN 3
LOOSE	3 TO 8
MEDIUM	8 TO 24
DENSE	24 TO 40
VERY DENSE	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT (BLOWS/FT.)
VERY SOFT	LESS THAN 1
SOFT	1 TO 3
FIRM	3 TO 6
STIFF	6 TO 12
VERY STIFF	12 TO 24
HARD	GREATER THAN 24

NO.	REVISIONS	DATE	BY	SCALE	 7351 Temple Terrace Highway Tampa, Florida 33637 Phone: 813-989-1354 Fax: 813-989-1355 FL Cert. No.: 6486	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	27TH ST. EAST IMPROVEMENTS ROADWAY SOIL PROFILES (3)	SHEET NO.
	AS NOTED					APR. 2022		JOSEPH R. ANTINORI, P.E.		47
	SW					PROJECT NO.		FL. LICENSE NO.		
	SW					6096260 5400033		73176		
	DN					6096560 5400034				



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
20.2	78.1	18.6	84.2	43.2	127.7
22.0	68.1	26.8	49.7	25.7	47.7

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	DESIGN ENGINEER	SHEET NO.
					HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823 CERTIFICATE OF AUTHORIZATION: 29741	JULY 2024	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	
					DESIGNED BY BJB	PROJECT NO. 6096260		48-A
					DRAWN BY BJB			
					CHECKED BY REH			

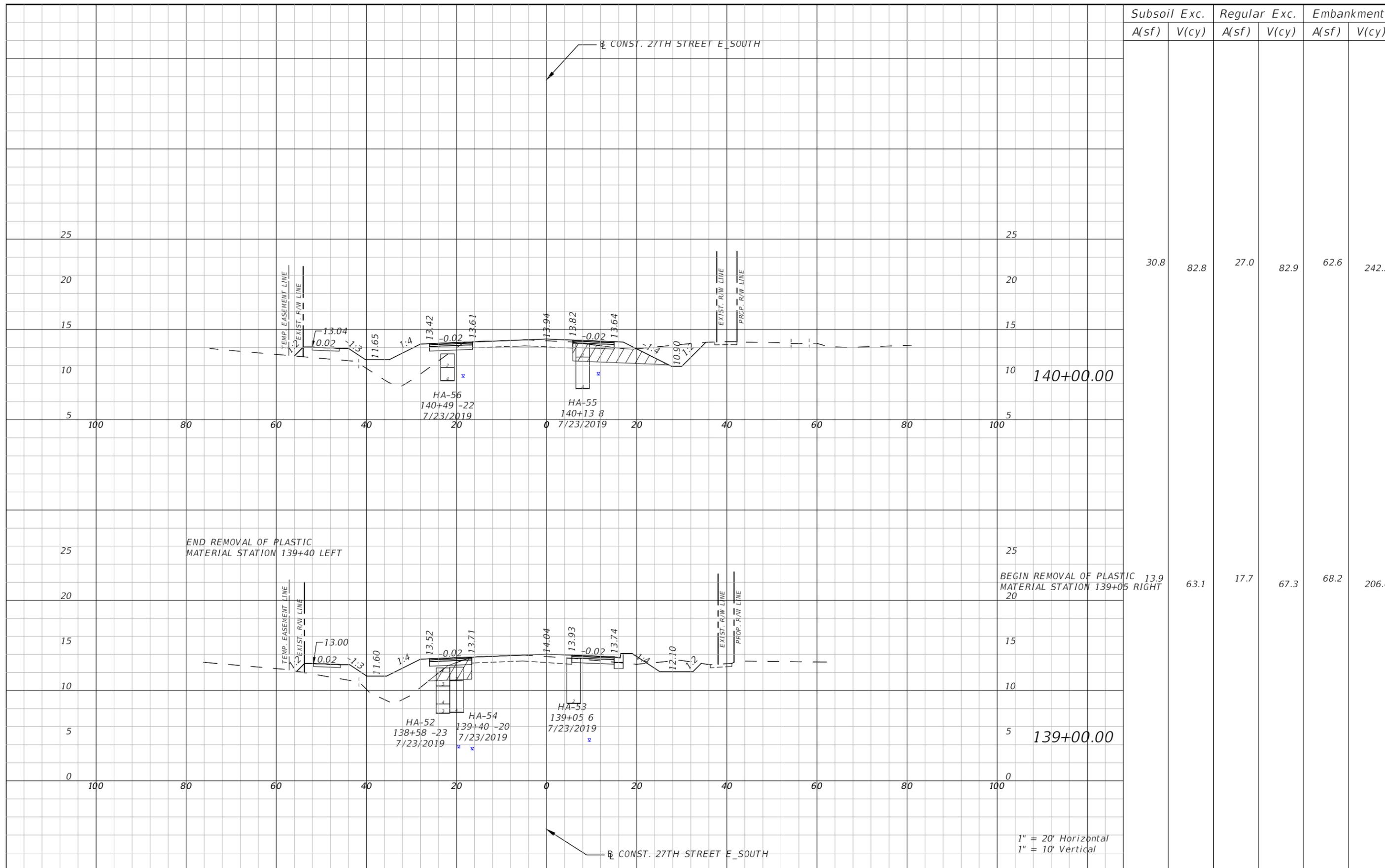


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
30.8	82.8	27.0	82.9	62.6	242.3
13.9	63.1	17.7	67.3	68.2	206.4

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
	AS NOTED				JULY 2024	ROBERT EDWARD HIDECK, P.E.	48
	DESIGNED BY				PROJECT NO.	FL. LICENSE NO.	
	BJB				6096260	67495	
	DRAWN BY						
	BJB						
	CHECKED BY						
	REH						

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

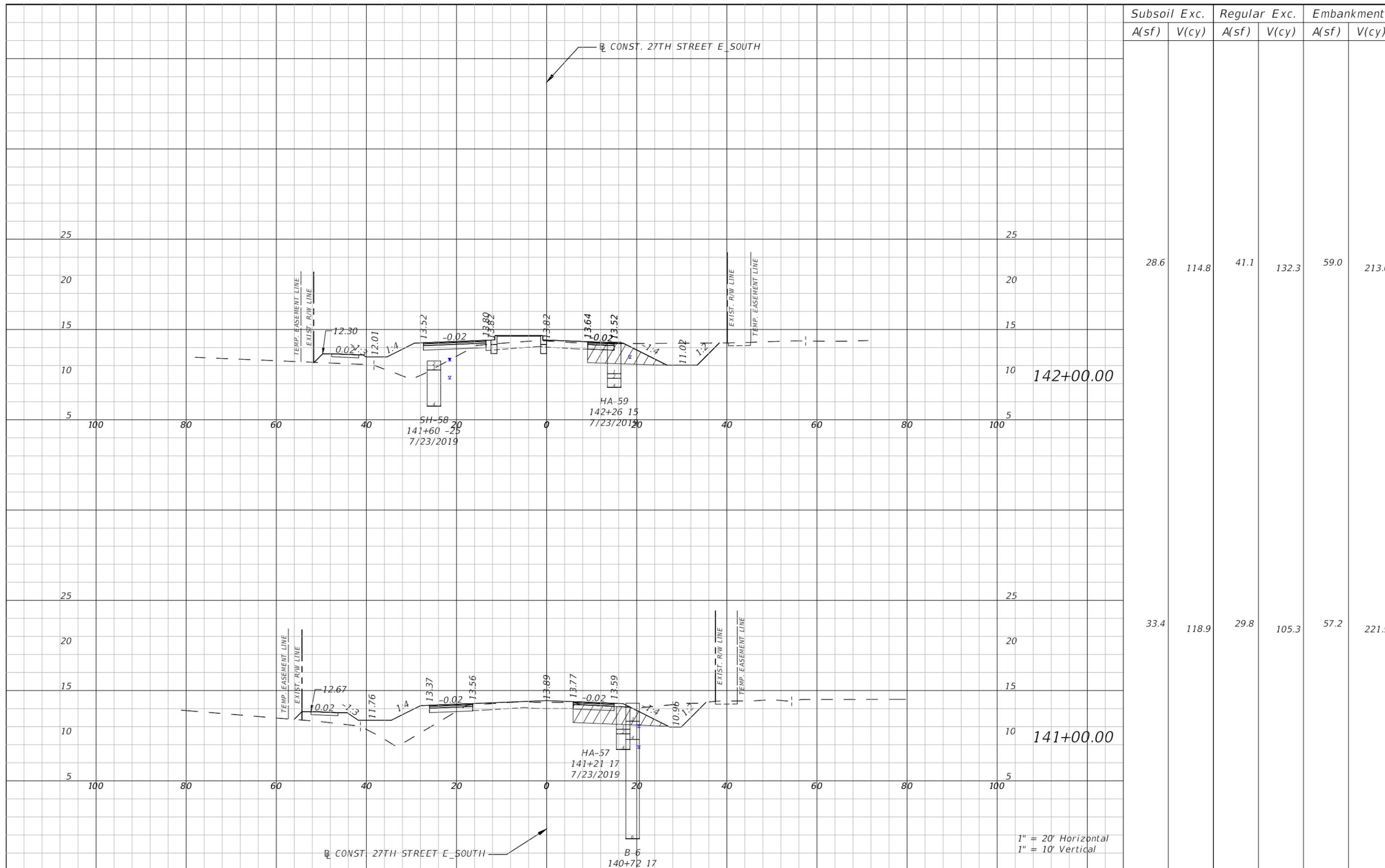


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

CROSS SECTION (1)

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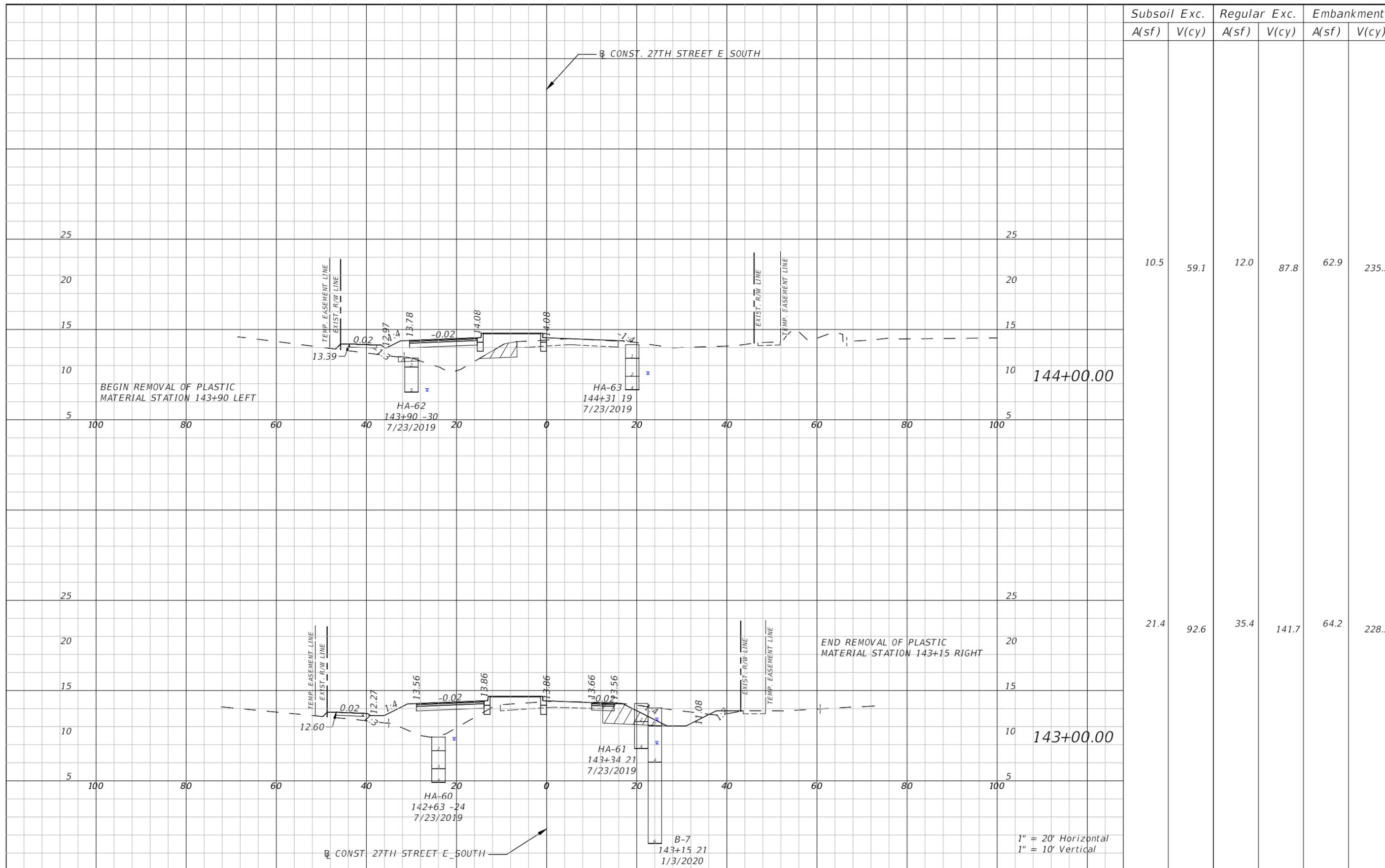


Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
28.6	114.8	41.1	132.3	59.0	213.0
33.4	118.9	29.8	105.3	57.2	221.9

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Skylar Casanova	DESIGN ENGINEER	<b>CROSS SECTION (2)</b>	SHEET NO.
					HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823 CERTIFICATE OF AUTHORIZATION: 29741	JULY 2024		ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO.		49
					DESIGNED BY BJB	PROJECT NO. 6096260		67495		
					DRAWN BY BJB					
					CHECKED BY REH					

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
10.5	59.1	12.0	87.8	62.9	235.5
21.4	92.6	35.4	141.7	64.2	228.3

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
	AS NOTED				JULY 2024	ROBERT EDWARD HIDECK, P.E.	50
	DESIGNED BY				PROJECT NO.	FL. LICENSE NO.	
	BJB				6096260	67495	
	DRAWN BY						
	BJB						
	CHECKED BY						
	REH						

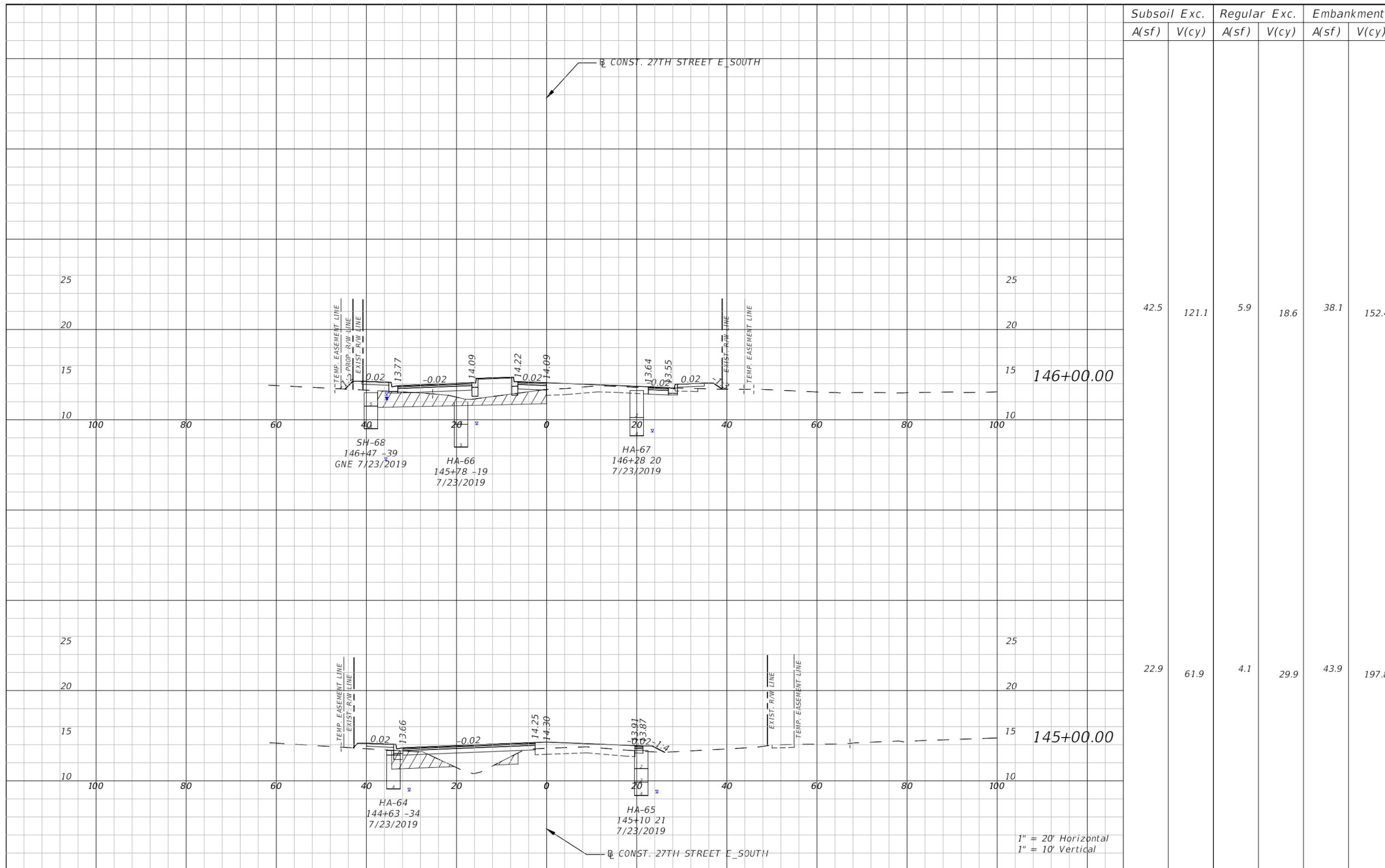
HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741



DESIGN ENGINEER  
 ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.  
 67495

CROSS SECTION (3)

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
42.5	121.1	5.9	18.6	38.1	152.4
22.9	61.9	4.1	29.9	43.9	197.8

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	51
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096260	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

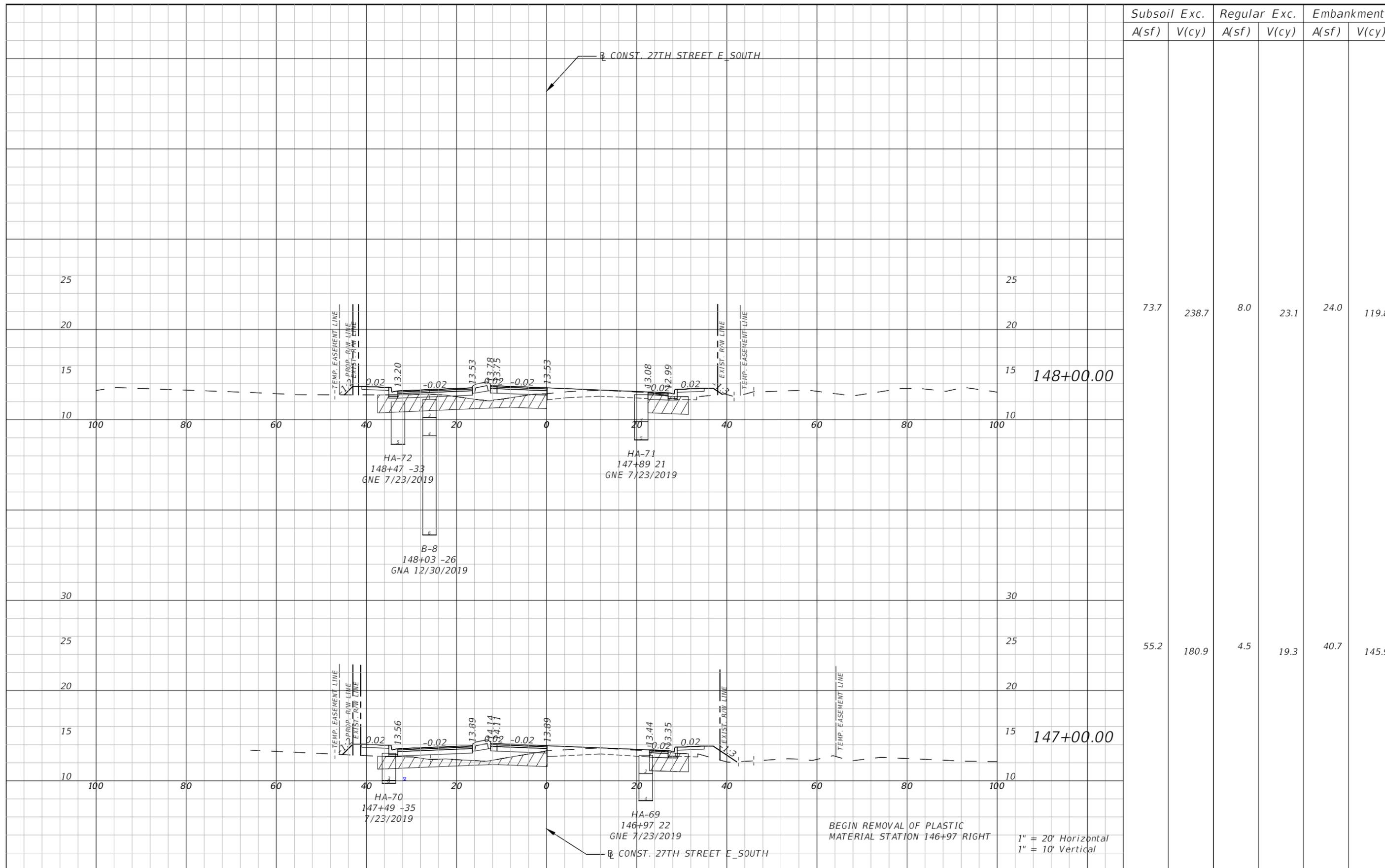


PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

CROSS SECTION (4)

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
73.7	238.7	8.0	23.1	24.0	119.8
55.2	180.9	4.5	19.3	40.7	145.9

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NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	52
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096260	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741



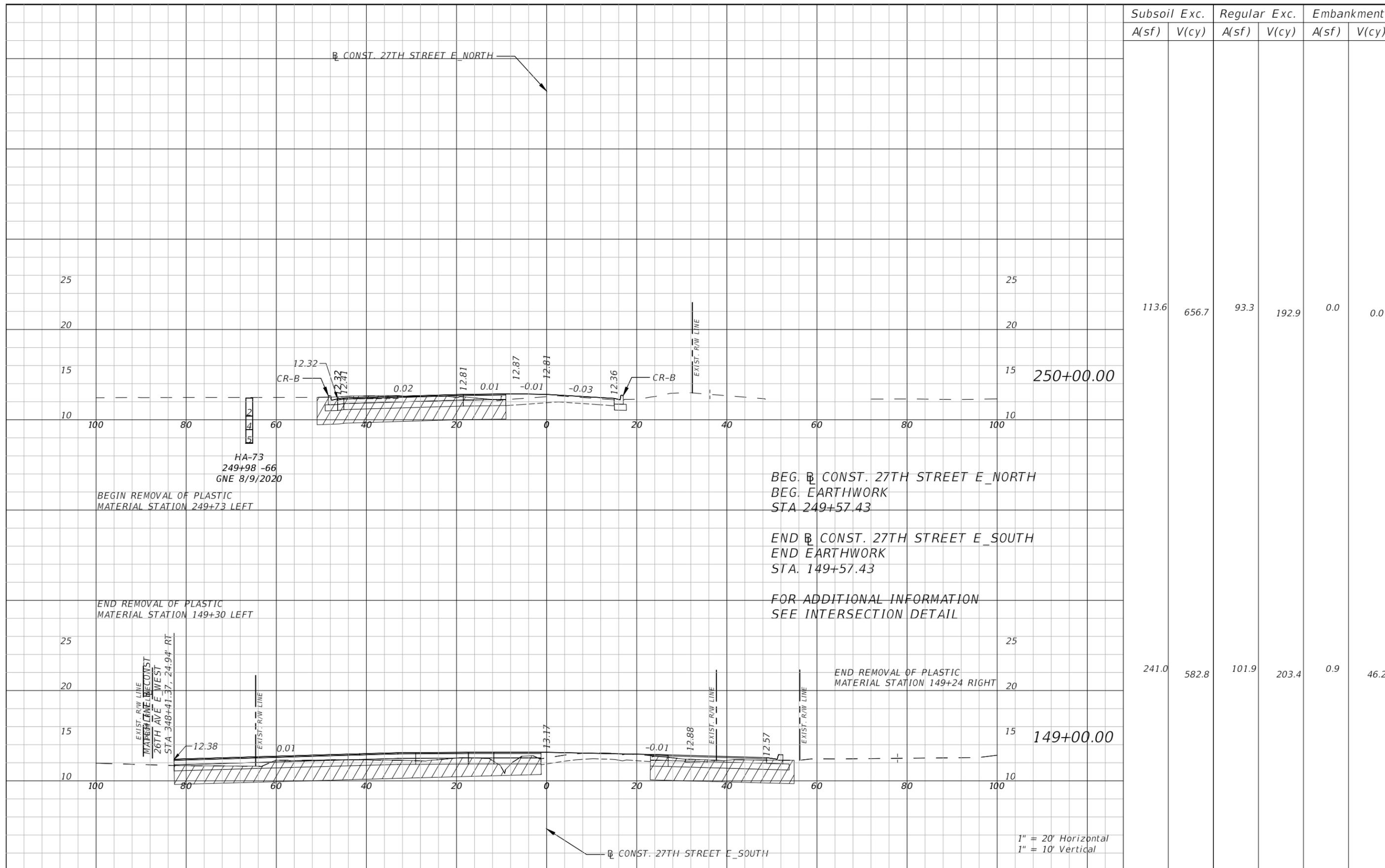
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Skylar Casanova

DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

**CROSS SECTION (5)**

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
113.6	656.7	93.3	192.9	0.0	0.0
241.0	582.8	101.9	203.4	0.9	46.2

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NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
	AS NOTED				JULY 2024	ROBERT EDWARD HIDECK, P.E.	53
	DESIGNED BY				PROJECT NO.	FL. LICENSE NO.	
	BJB				6096260	67495	
	DRAWN BY						
	BJB						
	CHECKED BY						
	REH						

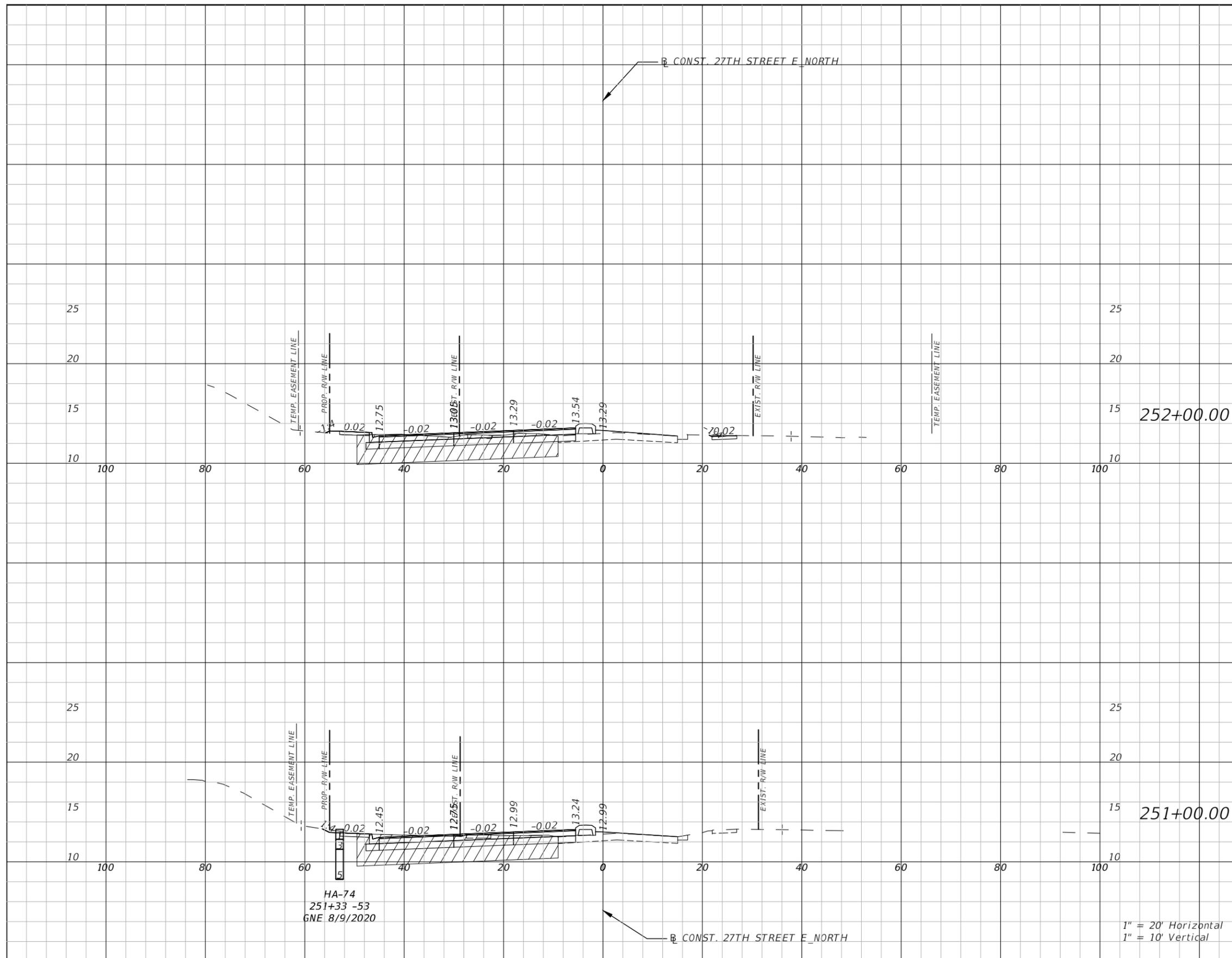
HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741



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

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CROSS SECTION (6)



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
103.8	393.9	42.5	171.3	2.7	6.8
108.9	412.1	50.0	92.5	1.0	1.8

HA-74  
251+33 -53  
GNE 8/9/2020

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY

SCALE	DATE
AS NOTED	JULY 2024
DESIGNED BY	PROJECT NO.
BJB	6096260
DRAWN BY	
BJB	
CHECKED BY	
REH	

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

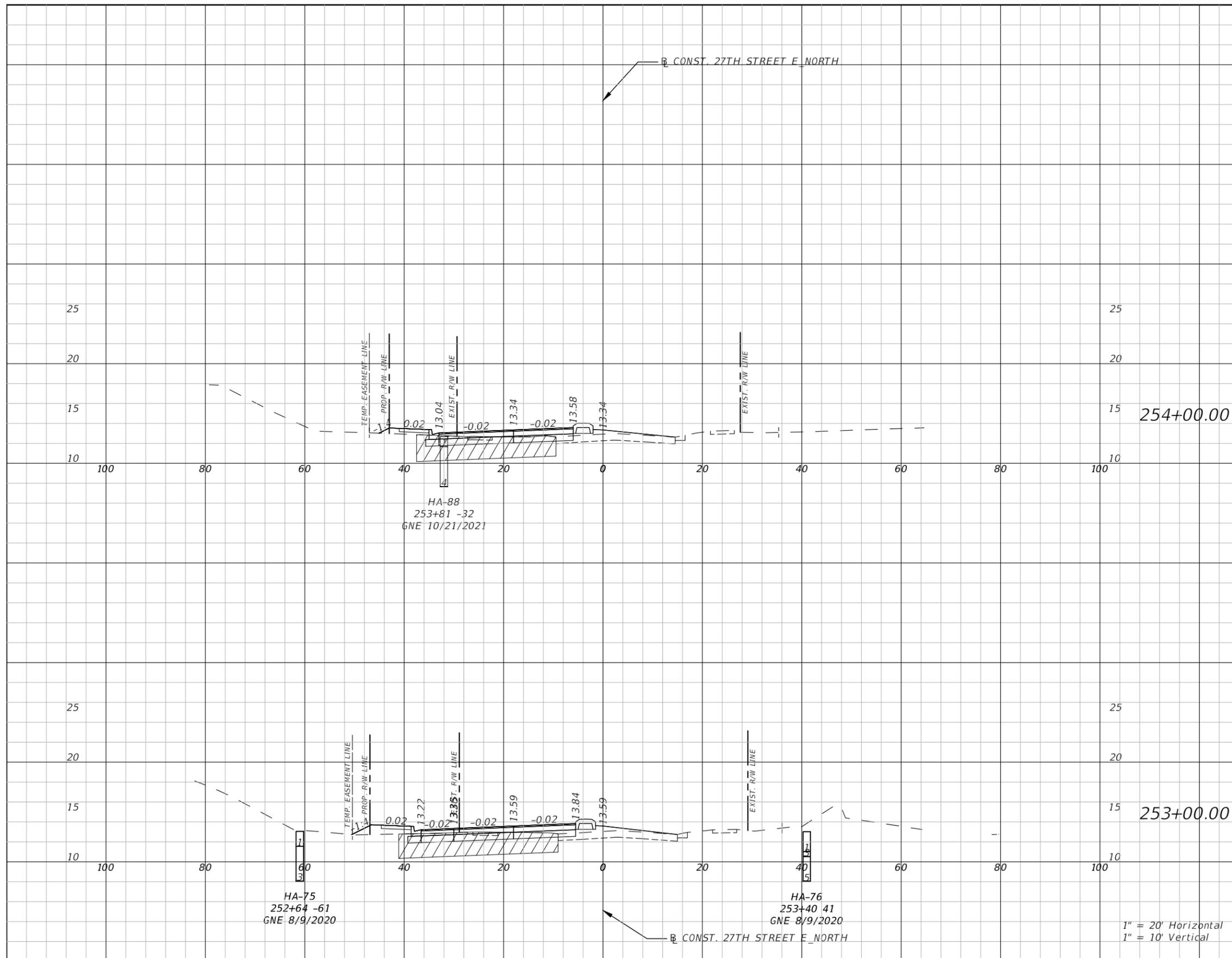


DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO. 67495

CROSS SECTION (7)

SHEET NO.  
54

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
63.6	251.5	20.8	82.1	6.7	34.1
72.2	325.9	23.5	122.3	11.7	26.5

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NO.	REVISIONS	DATE	BY
1	AS NOTED		
2			
3			

SCALE: AS NOTED  
 DESIGNED BY: BJB  
 DRAWN BY: BJB  
 CHECKED BY: REH  
 HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741

DATE: JULY 2024  
 PROJECT NO.: 6096260

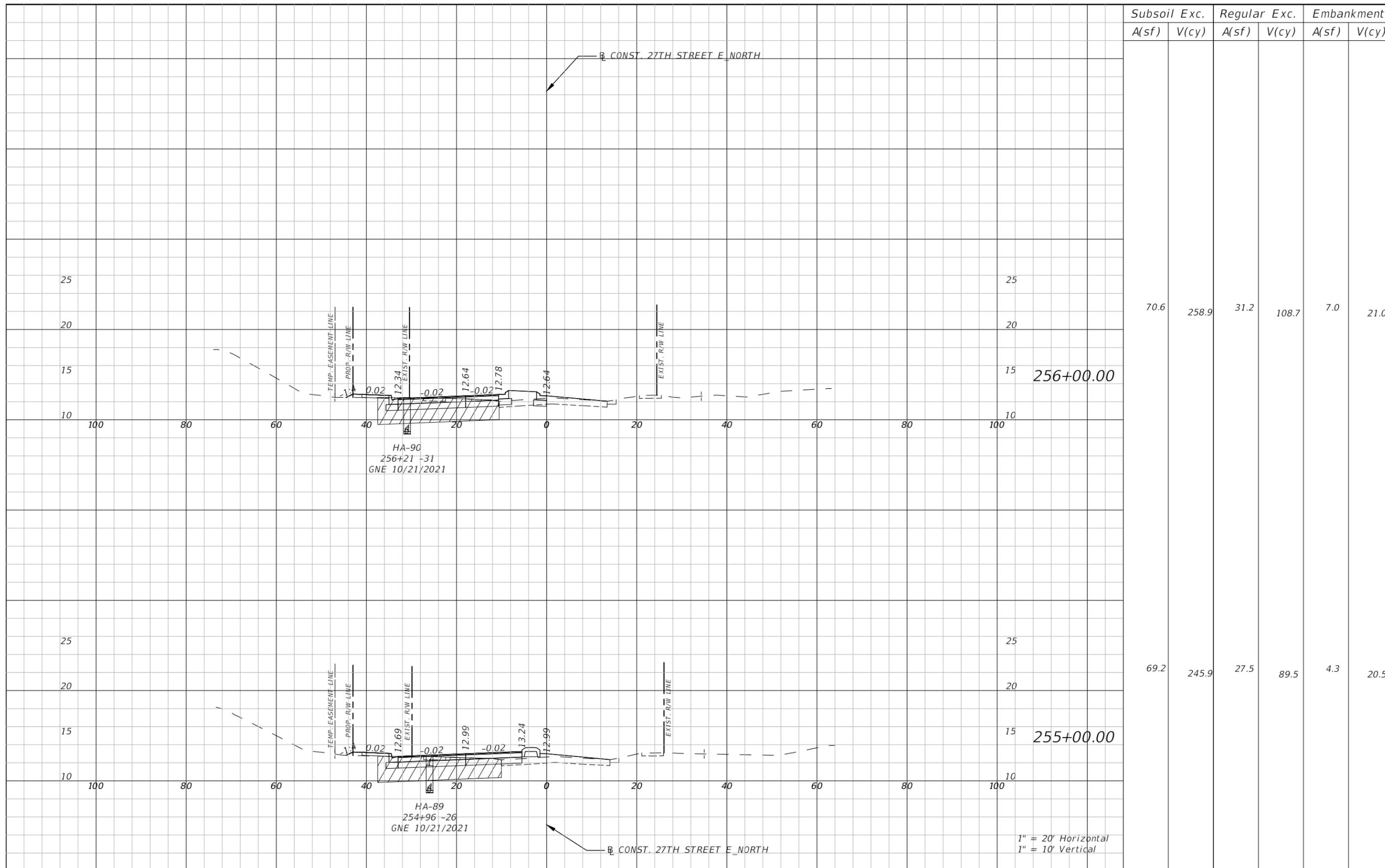


DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.: 67495

CROSS SECTION (8)

SHEET NO.: 55

1" = 20' Horizontal  
 1" = 10' Vertical



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
70.6	258.9	31.2	108.7	7.0	21.0
69.2	245.9	27.5	89.5	4.3	20.5

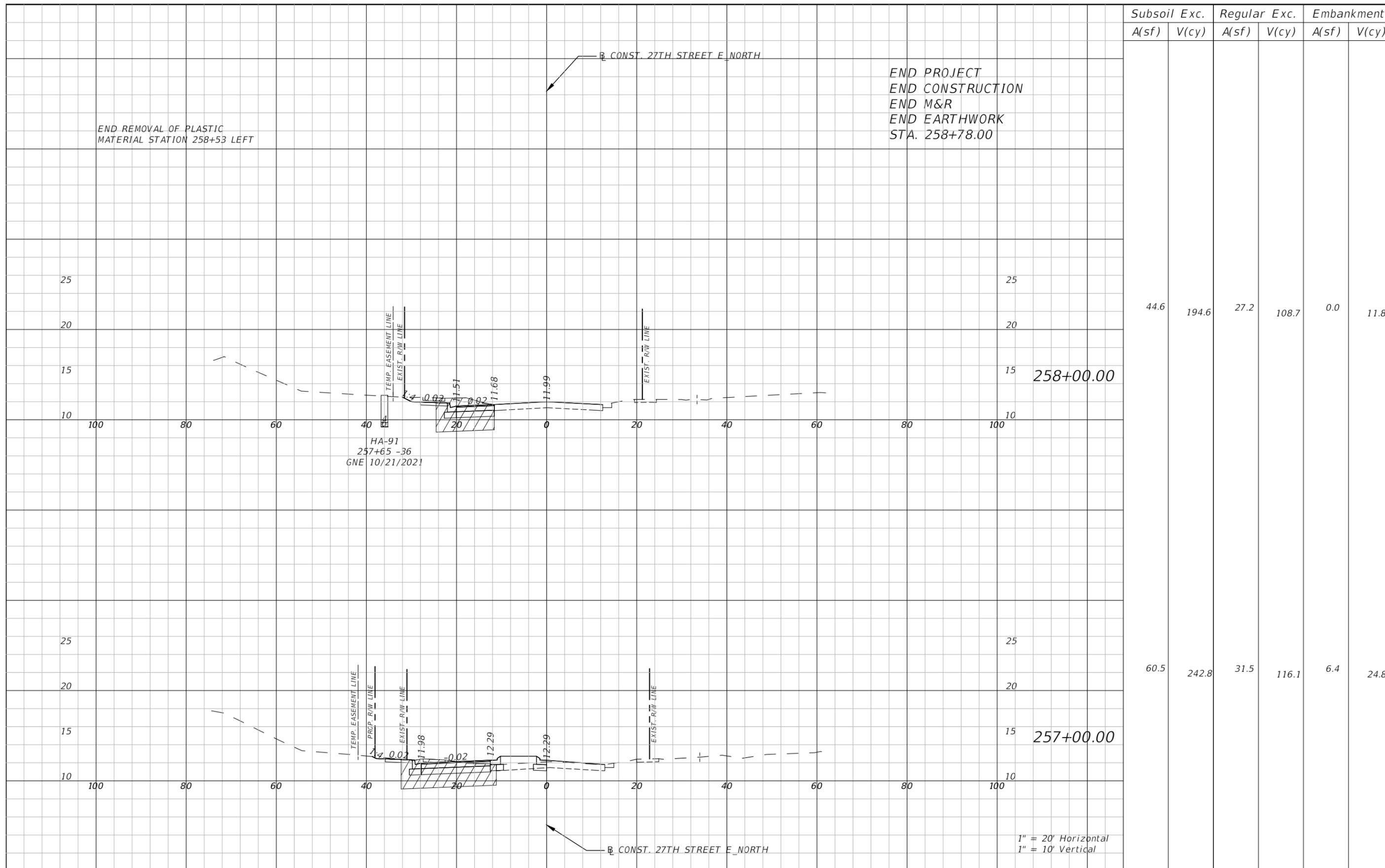
NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	56
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096260	67495	
				TAMPA, FL 33634			
				(813)749-0823			
				CERTIFICATE OF AUTHORIZATION: 29741			
				REH			



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

CROSS SECTION (9)

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
44.6	194.6	27.2	108.7	0.0	11.8
60.5	242.8	31.5	116.1	6.4	24.8

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NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	JULY 2024	ROBERT EDWARD HIDECK, P.E.	57
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096260	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			

HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741

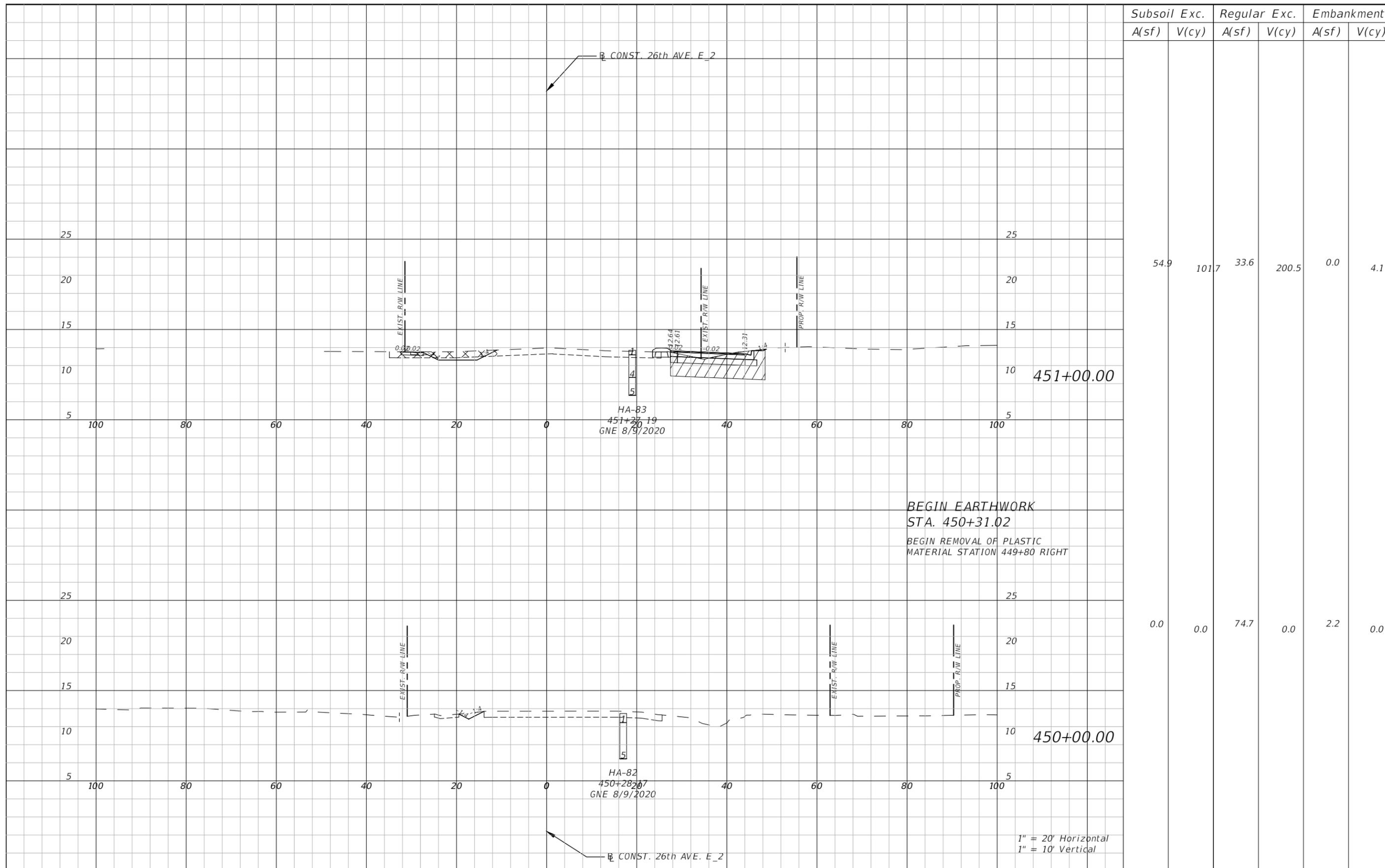


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 ENGINEERING SERVICES  
 1022 26th Avenue East, Bradenton, FL 34208  
 Skylar Casanova

DESIGN ENGINEER  
 ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO. 67495

CROSS SECTION (10)

1" = 20' Horizontal  
 1" = 10' Vertical



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
54.9	101.7	33.6	200.5	0.0	4.1
0.0	0.0	74.7	0.0	2.2	0.0

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED	DESIGNED BY	BJB	DATE	JULY 2024
	HARDESTY & HANOVER, LLC	DRAWN BY	BJB	PROJECT NO.	6096560
	5110 EISENHOWER BLVD.	CHECKED BY	REH		
	SUITE 310				
	TAMPA, FL 33634				
	(813)749-0823				
	CERTIFICATE OF AUTHORIZATION: 29741				

DATE	JULY 2024
PROJECT NO.	6096560

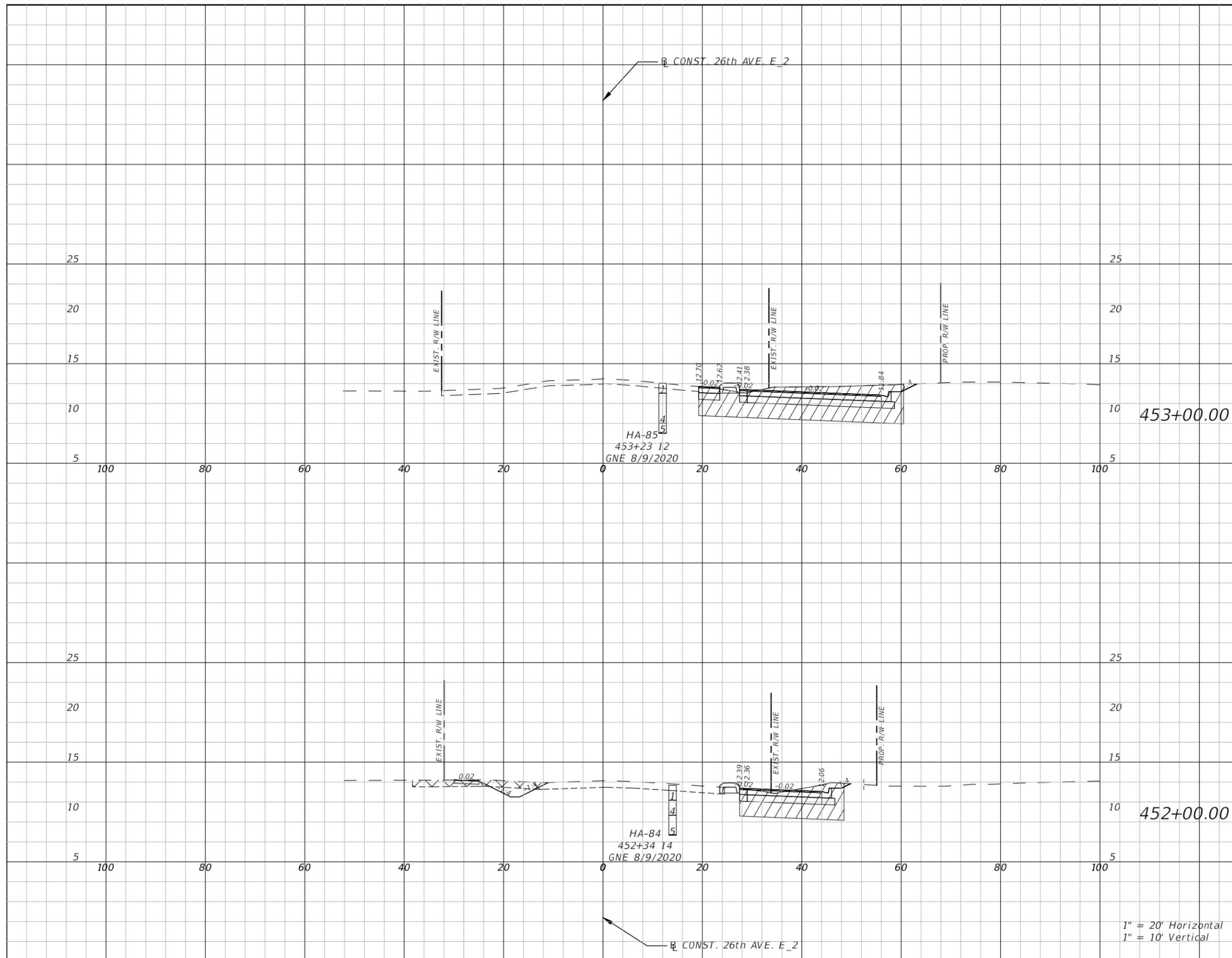


DESIGN ENGINEER	ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.	67495

CROSS SECTION (11)

SHEET NO.	58
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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
133.5	362.8	65.2	204.4	0.0	0.0
62.4	217.2	45.1	145.8	0.0	0.0

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED	DATE	JULY 2024
DESIGNED BY	BJB	PROJECT NO.	6096560
DRAWN BY	BJB		
CHECKED BY	REH		

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

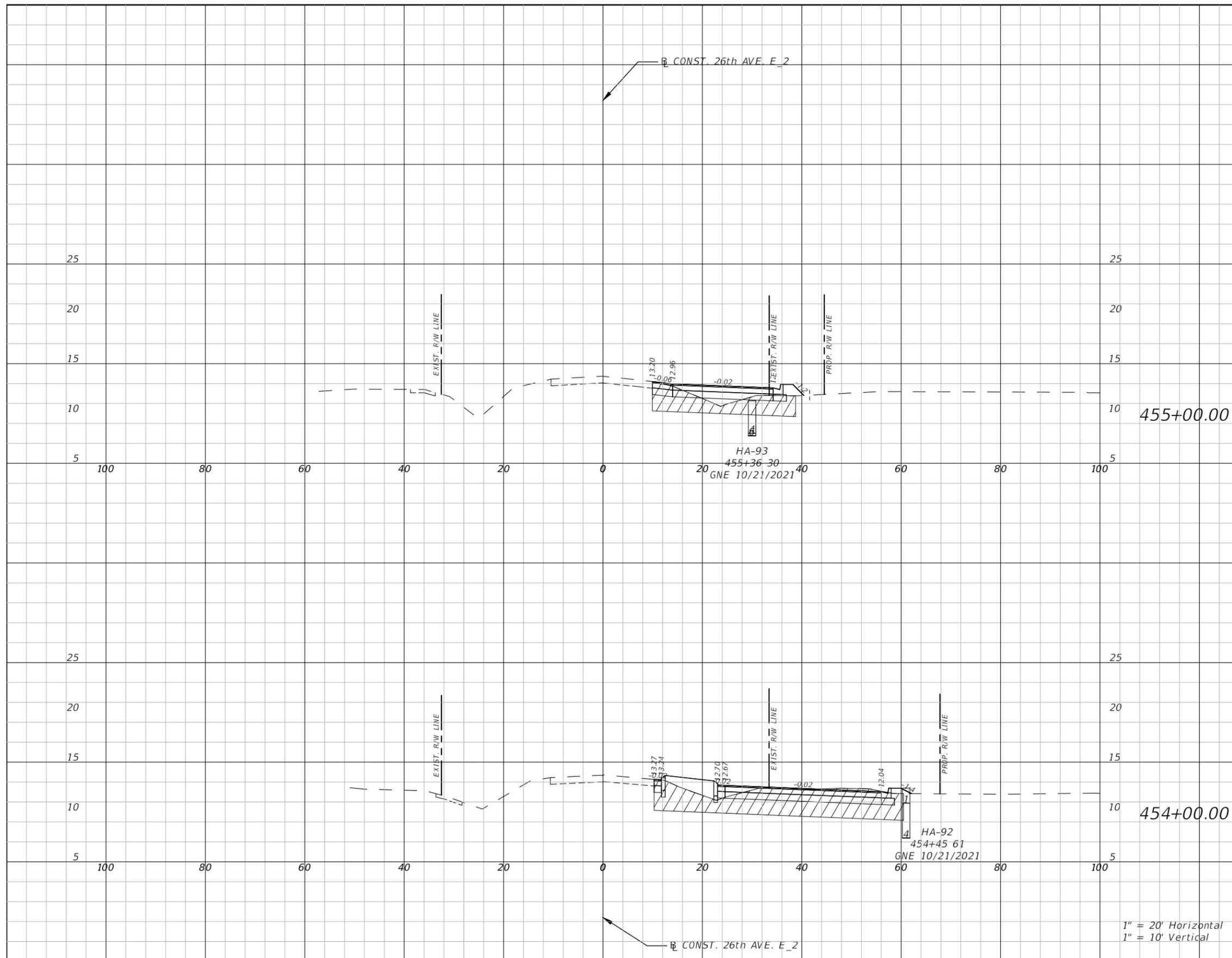


DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO. 67495

CROSS SECTION (12)

SHEET NO.  
59

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
53.2	334.0	8.6	70.4	6.2	32.7
127.2	482.8	29.4	175.3	11.5	21.3

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY

SCALE  
**AS NOTED**  
DESIGNED BY  
**BJB**  
DRAWN BY  
**BJB**  
CHECKED BY  
**REH**

DATE  
JULY 2024  
PROJECT NO.  
6096560

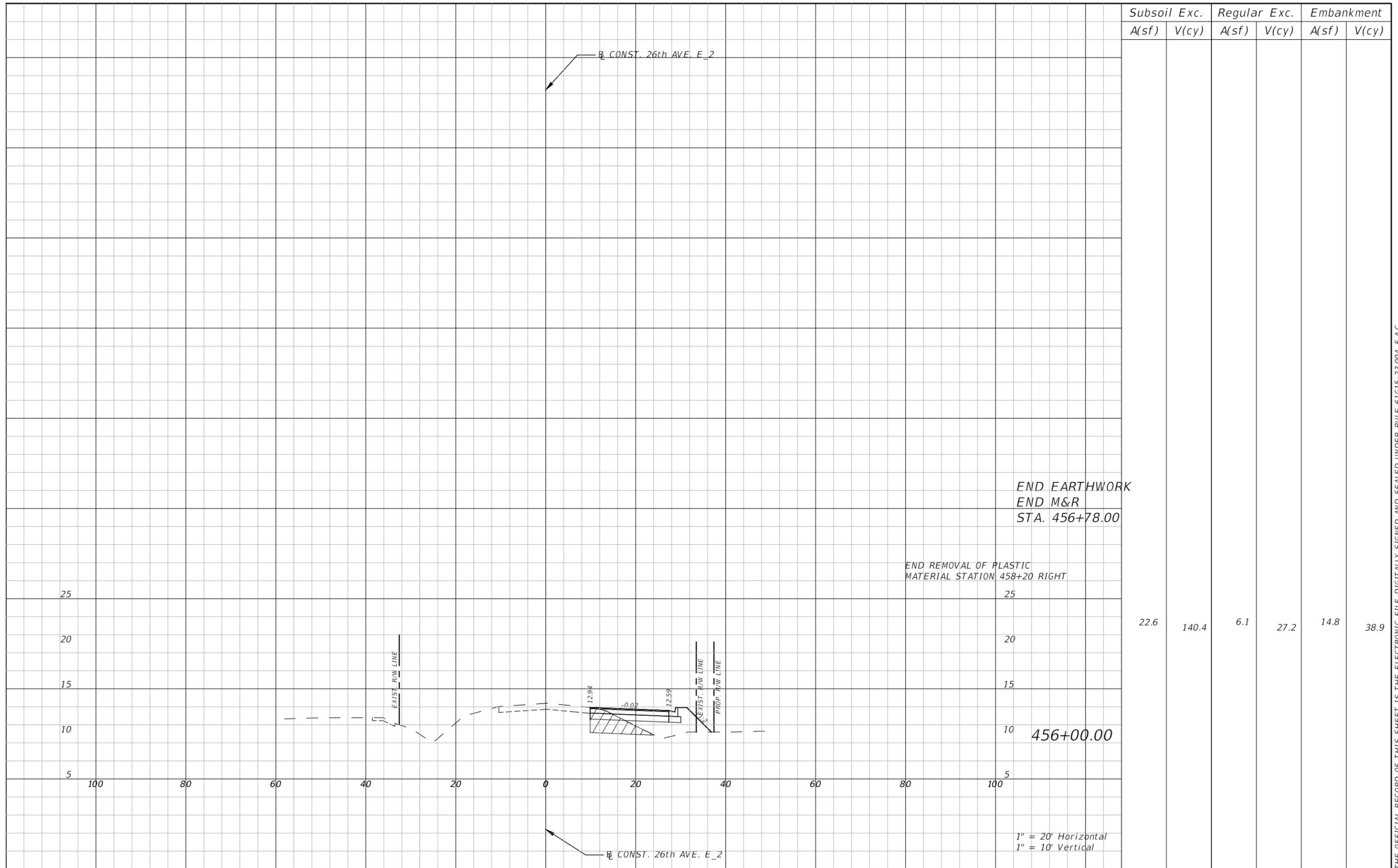


DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

**CROSS SECTION (13)**

SHEET NO.  
**60**

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
22.6	140.4	6.1	27.2	14.8	38.9

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
	AS NOTED				JULY 2024	ROBERT EDWARD HIDECK, P.E.	61
	DESIGNED BY				PROJECT NO.	FL. LICENSE NO.	
	BJB				6096560	67495	
	DRAWN BY						
	BJB						
	CHECKED BY						
	REH						

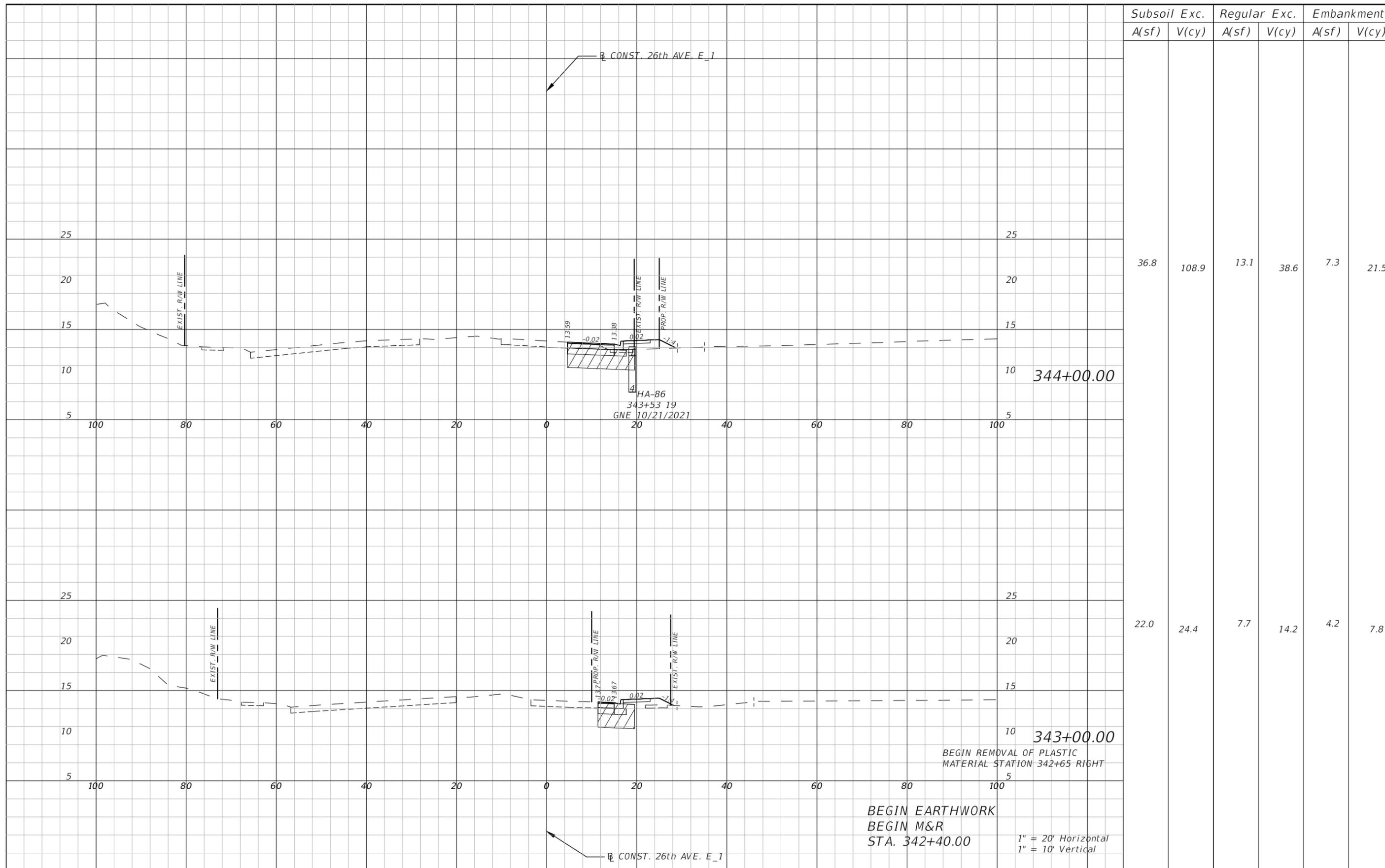
HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741



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

CROSS SECTION (14)

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
36.8	108.9	13.1	38.6	7.3	21.5
22.0	24.4	7.7	14.2	4.2	7.8

NO.	REVISIONS	DATE	BY

SCALE  
AS NOTED  
DESIGNED BY  
DRAWN BY  
CHECKED BY

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

DATE  
PROJECT NO.

JULY 2024  
6096560

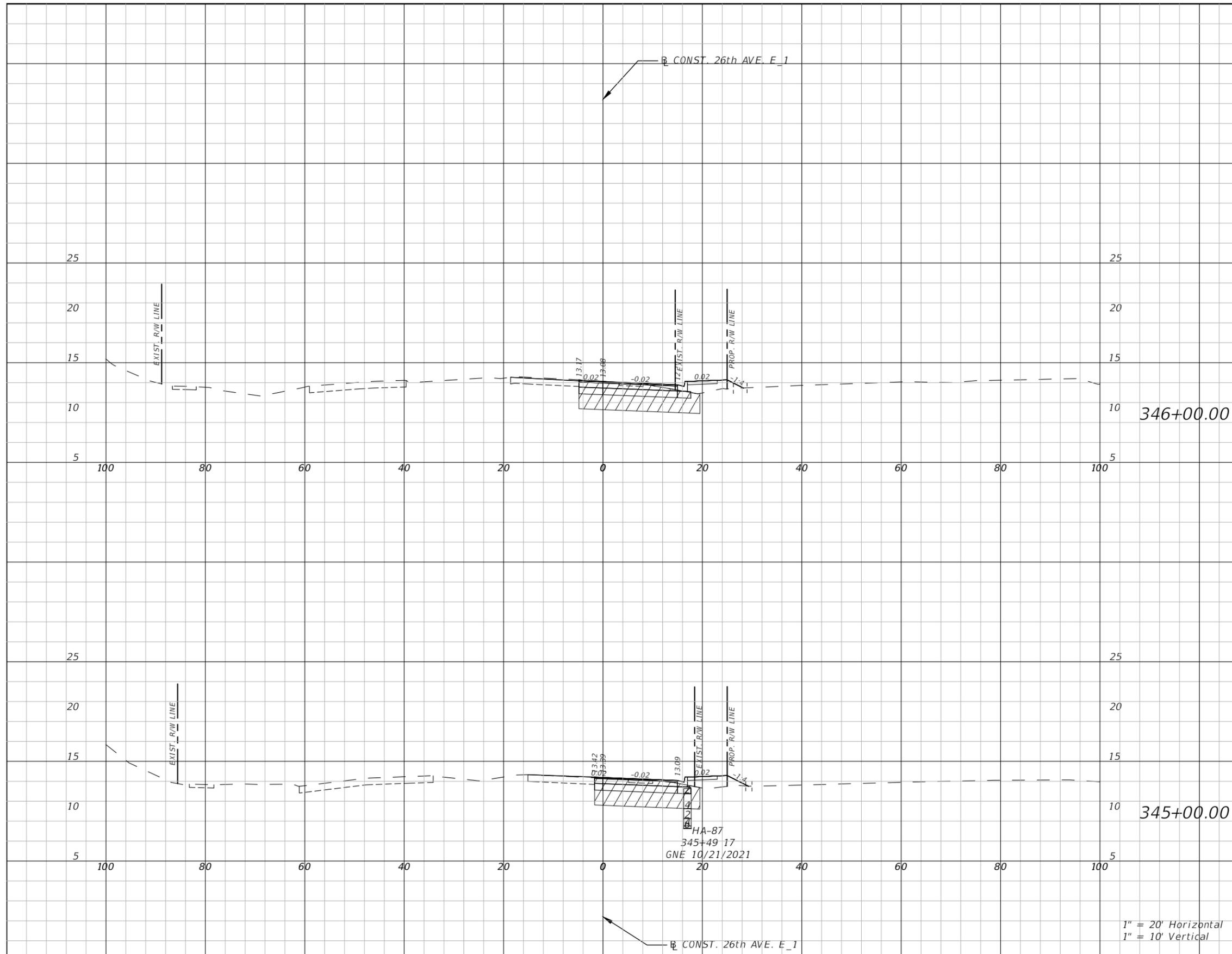


DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

**CROSS SECTION (15)**

SHEET NO.  
62

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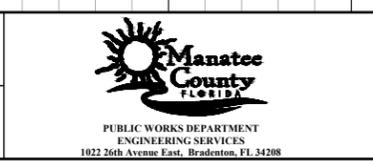
Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
63.6	220.7	27.4	92.3	7.6	31.0
55.6	171.1	22.4	65.9	9.1	30.5

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NO.	REVISIONS	DATE	BY

SCALE: AS NOTED  
 DESIGNED BY: BJB  
 DRAWN BY: BJB  
 CHECKED BY: REH  
 HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741

DATE: JULY 2024  
 PROJECT NO.: 6096560

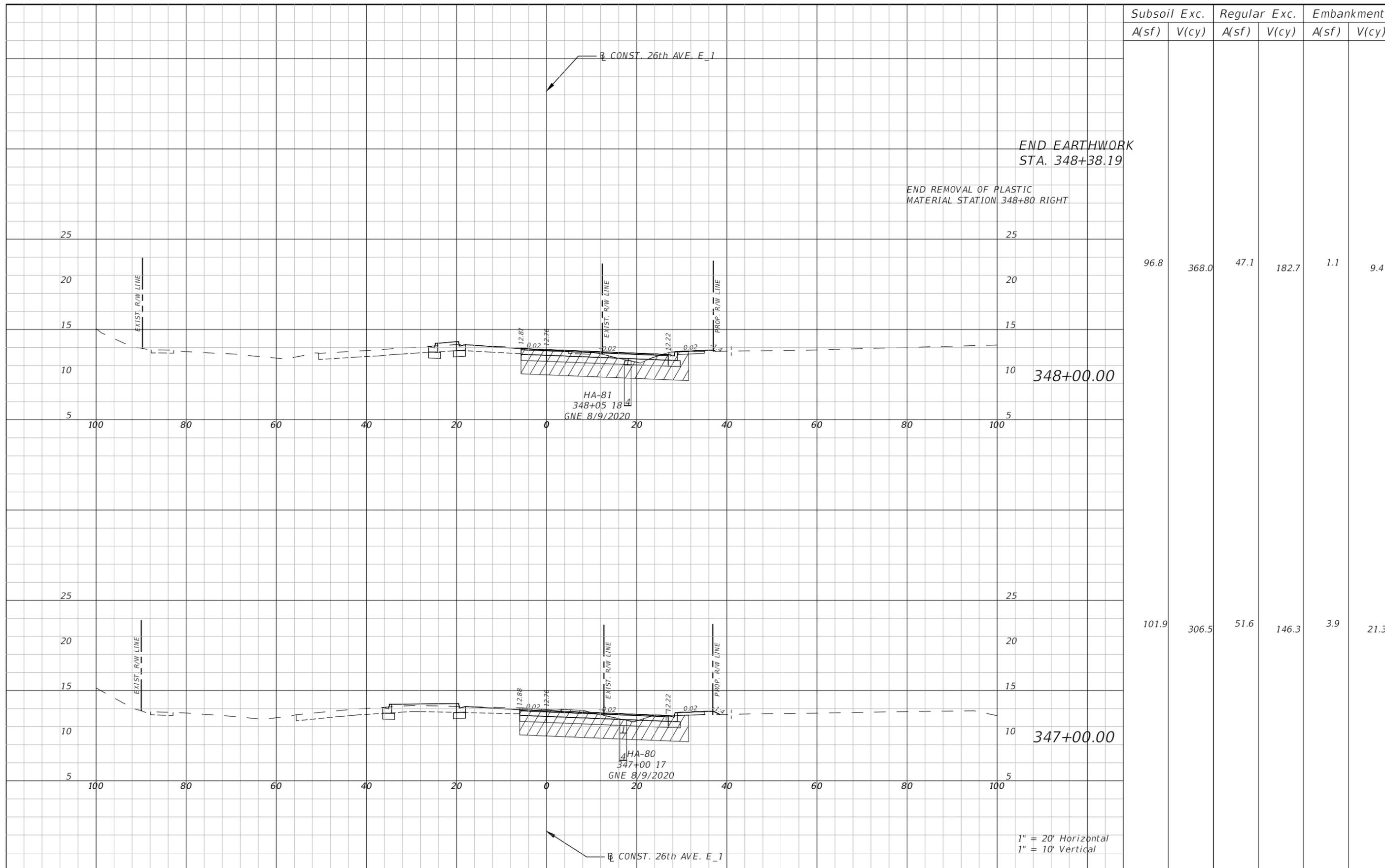


DESIGN ENGINEER: ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO.: 67495

1" = 20' Horizontal  
 1" = 10' Vertical

**CROSS SECTION (16)**

SHEET NO.: 63



Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
96.8	368.0	47.1	182.7	1.1	9.4
101.9	306.5	51.6	146.3	3.9	21.3

NO.	REVISIONS	DATE	BY

SCALE  
AS NOTED  
DESIGNED BY  
DRAWN BY  
CHECKED BY

HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823  
CERTIFICATE OF AUTHORIZATION: 29741

DATE  
PROJECT NO.

JULY 2024  
6096560

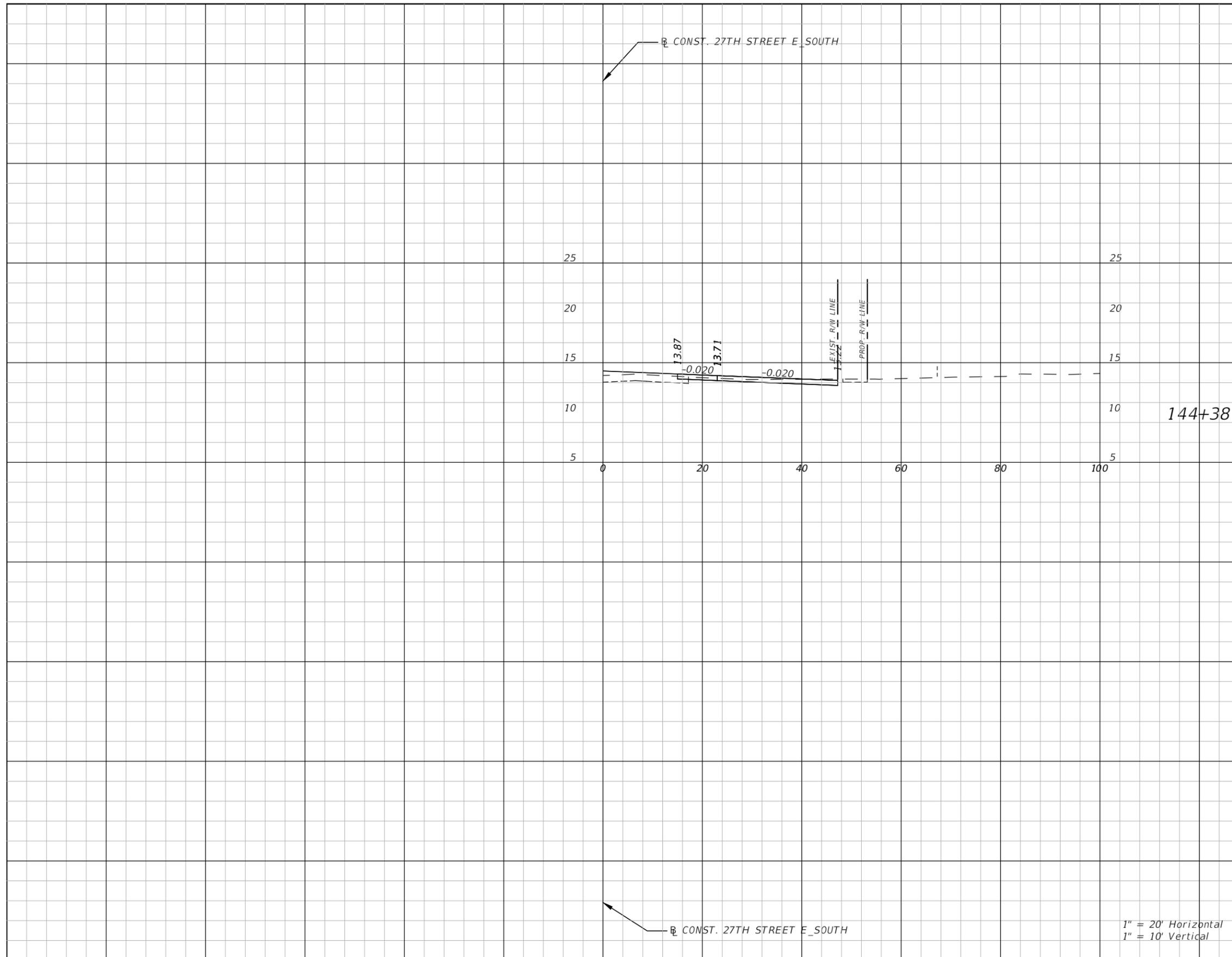


DESIGN ENGINEER  
ROBERT EDWARD HIDECK, P.E.  
FL. LICENSE NO.  
67495

CROSS SECTION (17)

SHEET NO.  
64

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Subsoil Exc.		Regular Exc.		Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)

1" = 20' Horizontal  
1" = 10' Vertical

NO.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BJB
DRAWN BY	BJB
CHECKED BY	REH

DATE	JULY 2024
PROJECT NO.	6096560

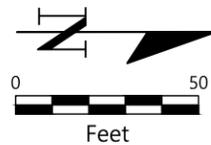


DESIGN ENGINEER	ROBERT EDWARD HIDECK, P.E.
FL. LICENSE NO.	67495

**DRIVEWAY CROSS SECTION (1)**

SHEET NO.	65
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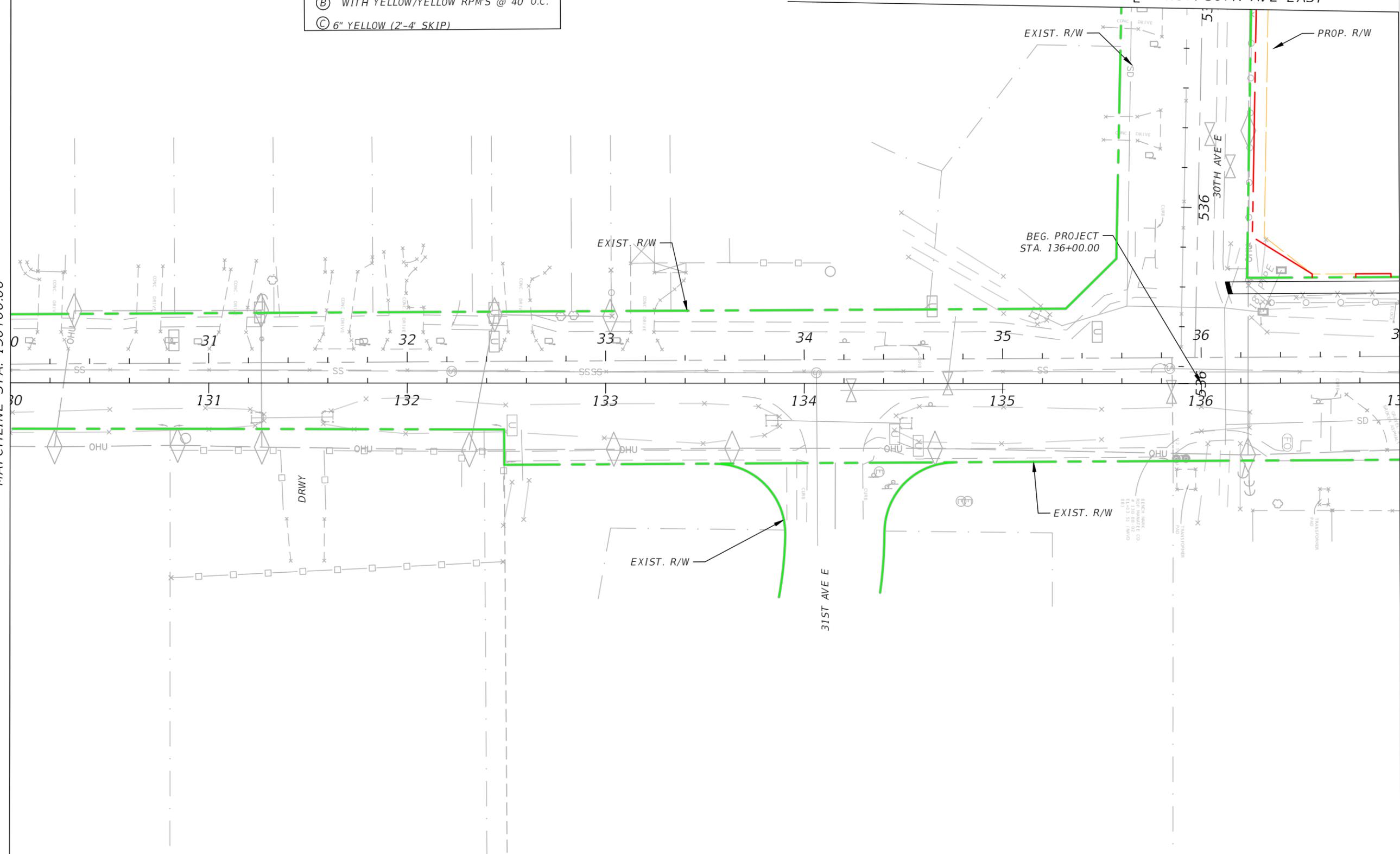


- GENERAL NOTES**
- (A) WITH WHITE/RED RPM'S @ 20' O.C.
  - (B) WITH YELLOW/YELLOW RPM'S @ 40' O.C.
  - (C) 6" YELLOW (2'-4" SKIP)

MATCHLINE STA. 130+00.00

MATCHLINE 535+00.00  
CONST. 30TH AVE EAST

MATCHLINE STA. 137+00.00

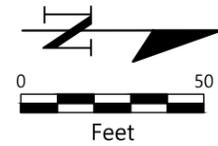


NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	ROBERT EDWARD HIDECK, P.E.	
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				BJB	6096560	67495	
				DRAWN BY			
				BJB			
				CHECKED BY			
				REH			



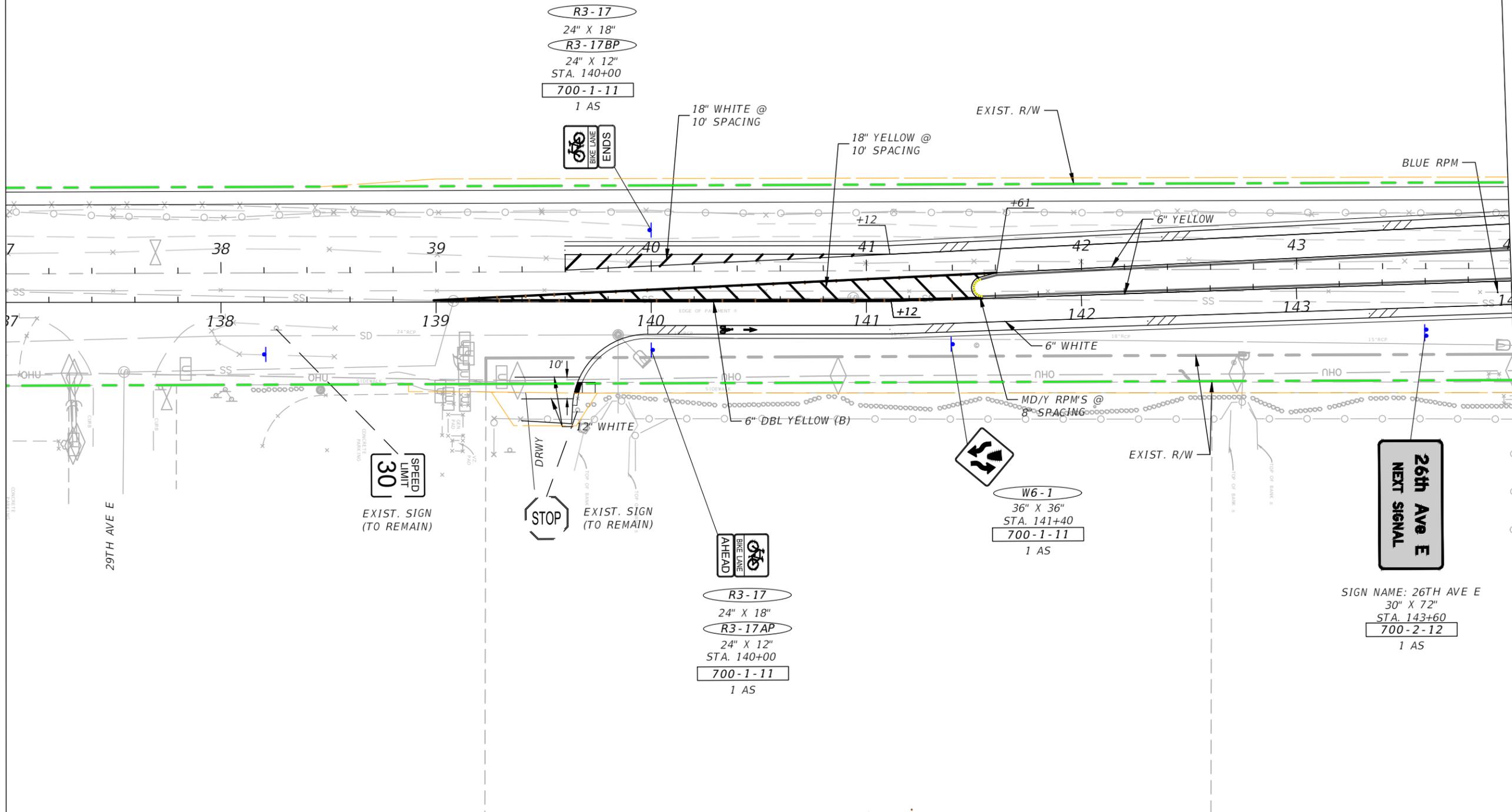
**SIGNING & PAVEMENT MARKINGS**  
(1)

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MATCHLINE STA. 137+00.00

MATCHLINE STA. 144+00.00



R3-17  
24" X 18"  
R3-17BP  
24" X 12"  
STA. 140+00  
700-1-11  
1 AS



18" WHITE @ 10' SPACING

18" YELLOW @ 10' SPACING

EXIST. R/W

BLUE RPM

29TH AVE E

30  
SPEED LIMIT  
EXIST. SIGN  
(TO REMAIN)

STOP  
EXIST. SIGN  
(TO REMAIN)



R3-17  
24" X 18"  
R3-17AP  
24" X 12"  
STA. 140+00  
700-1-11  
1 AS



W6-1  
36" X 36"  
STA. 141+40  
700-1-11  
1 AS

26th Ave E  
NEXT SIGNAL

SIGN NAME: 26TH AVE E  
30" X 72"  
STA. 143+60  
700-2-12  
1 AS

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
	AS NOTED				MAY 2025	ROBERT EDWARD HIDECK, P.E.	67
	DESIGNED BY				PROJECT NO.	FL. LICENSE NO.	
	BJB				6096560	67495	
	DRAWN BY						
	BJB						
	CHECKED BY						
	REH						

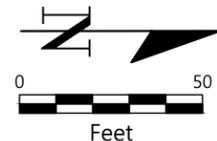
HARDESTY & HANOVER, LLC  
5110 EISENHOWER BLVD.  
SUITE 310  
TAMPA, FL 33634  
(813)749-0823



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

**SIGNING & PAVEMENT MARKINGS**  
(2)

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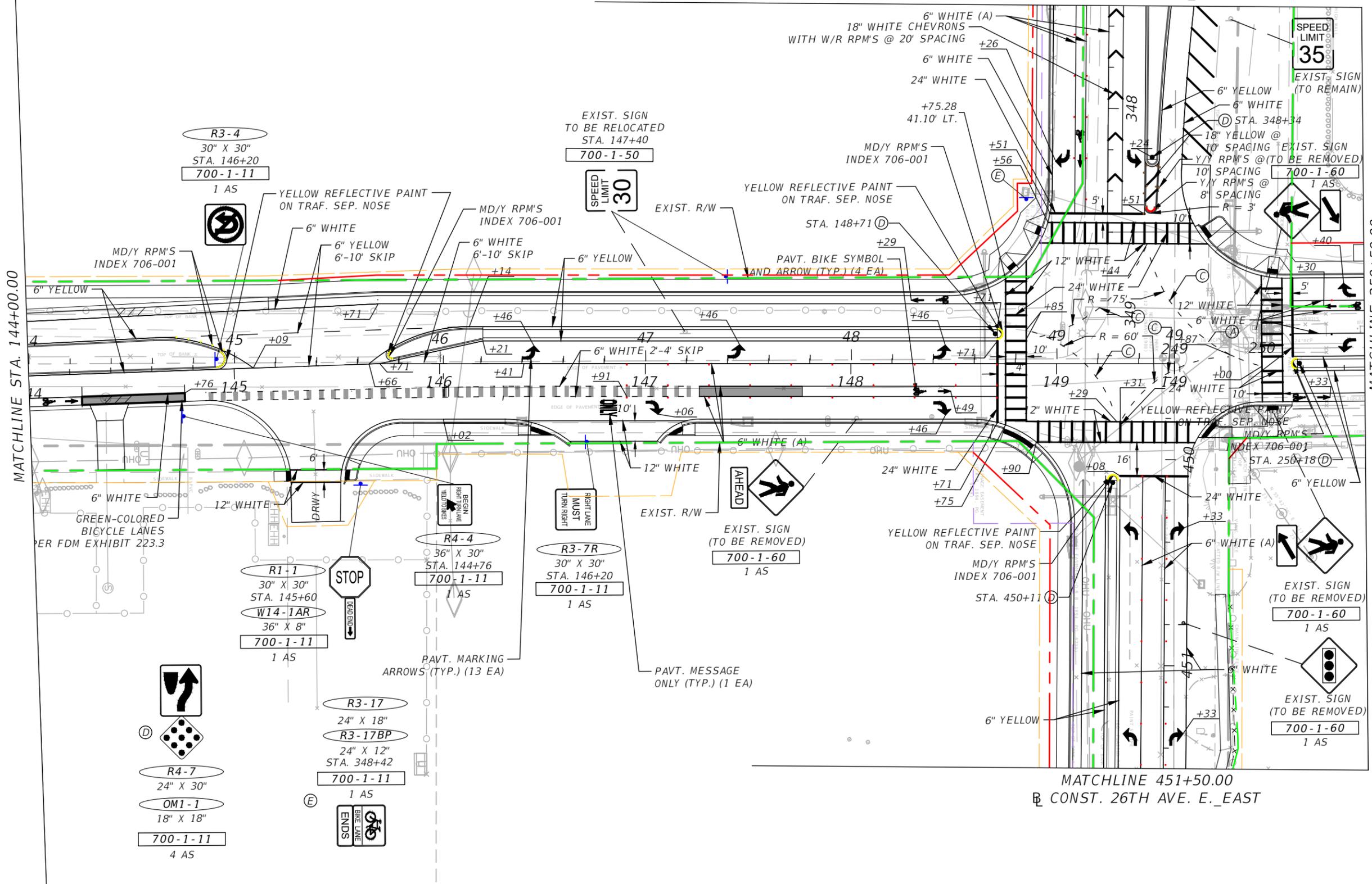


MATCHLINE 347+50.00  
CONST. 26TH AVE. E. WEST

MATCHLINE STA. 144+00.00

MATCHLINE 250+50.00  
CONST. 26TH AVE. E. NORTH

MATCHLINE 451+50.00  
CONST. 26TH AVE. E. EAST



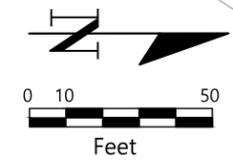
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				AS NOTED	MAY 2025	ROBERT EDWARD HIDECK, P.E.	
				DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
				DRAWN BY	6096560	67495	
				CHECKED BY			

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TAMPA, FL 33634  
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(3)

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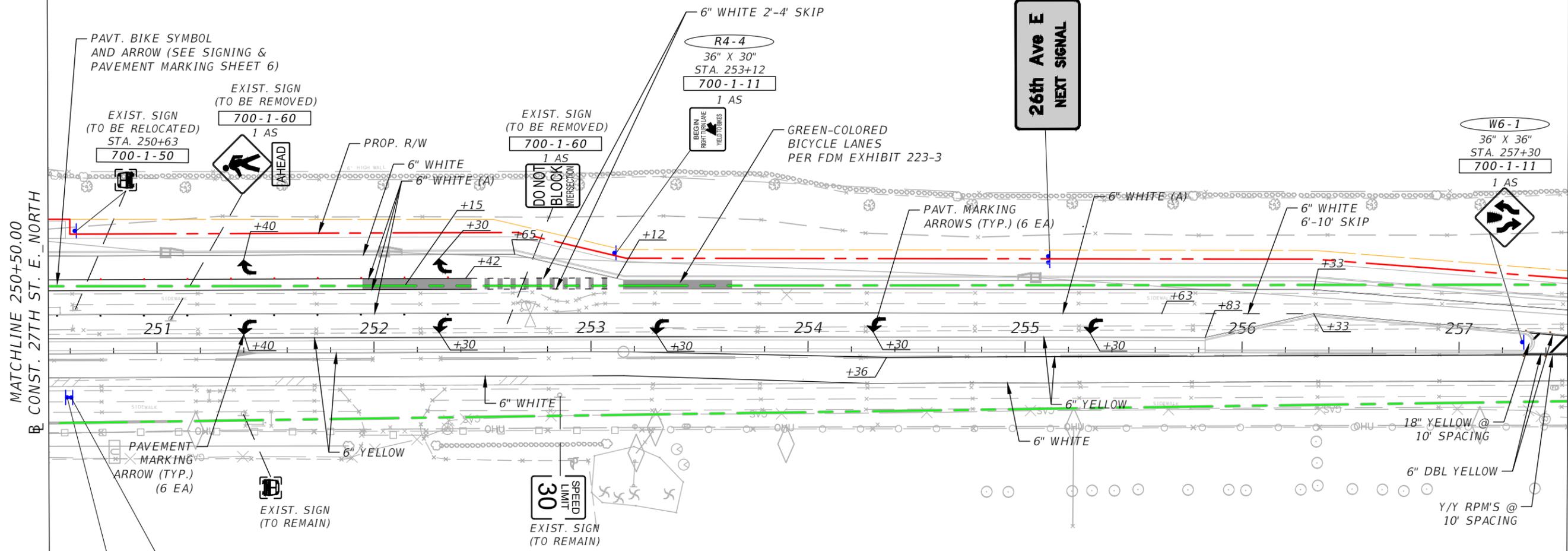
SIGN NAME: 26TH AVE E  
 30" X 72"  
 STA. 255+11  
 700-2-12  
 1 AS



R4-4  
 36" X 30"  
 STA. 253+12  
 700-1-11  
 1 AS



W6-1  
 36" X 36"  
 STA. 257+30  
 700-1-11  
 1 AS



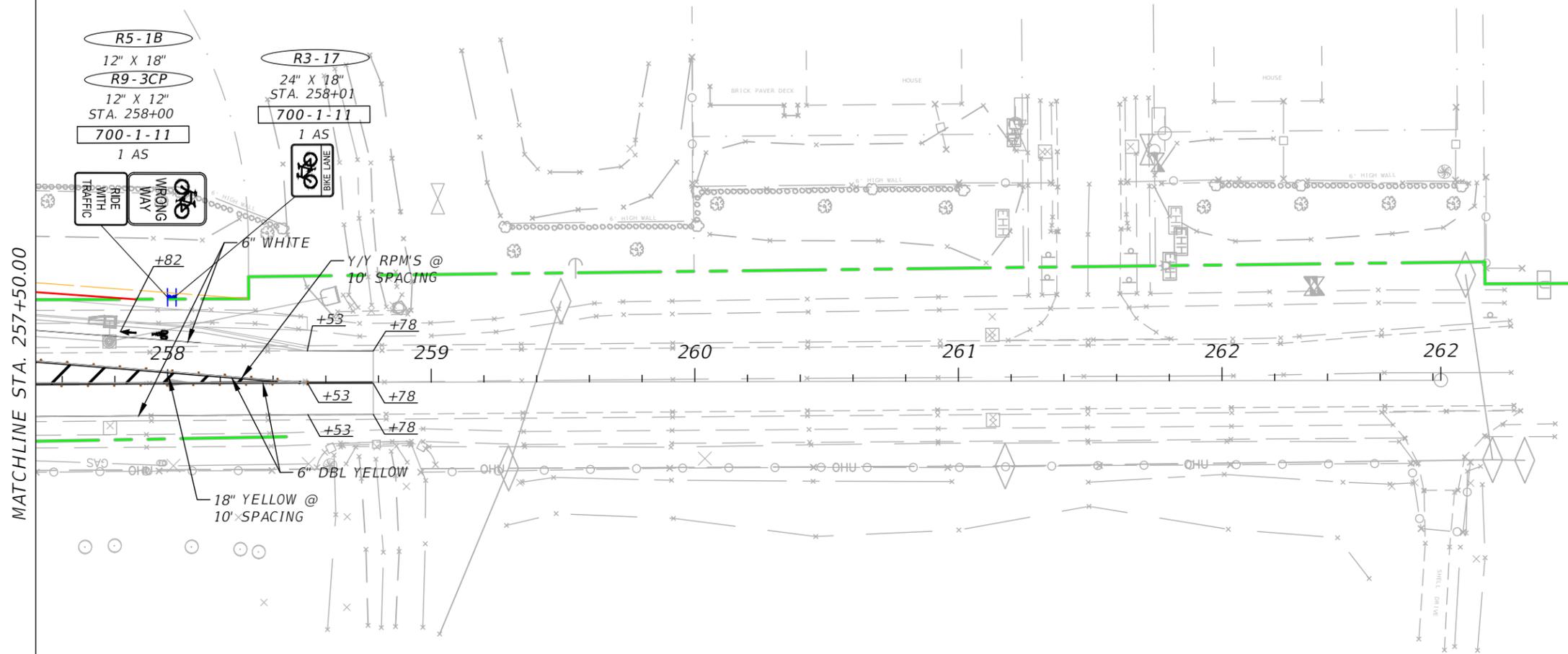
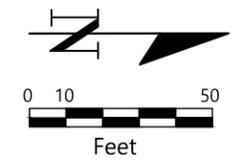
- R3-17BP  
24" X 12"  
BICYCLE LANE ENDS
- R3-17  
24" X 18"  
STA. 250+60  
700-1-11  
1 AS
- R5-1B  
12" X 18"  
WRONG WAY
- R9-3CP  
12" X 12"  
STA. 250+60  
700-1-11  
1 AS
- RIDE WITH TRAFFIC

NO.	REVISIONS	DATE	BY	SCALE	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	MAY 2025	ROBERT EDWARD HIDECK, P.E.	69
			MPJ	DESIGNED BY	PROJECT NO.	FL. LICENSE NO.	
			JSM	DRAWN BY	6096260	67495	
			REH	CHECKED BY			

HARDESTY & HANOVER, LLC  
 5110 EISENHOWER BLVD.  
 SUITE 310  
 TAMPA, FL 33634  
 (813)749-0823  
 CERTIFICATE OF AUTHORIZATION: 29741



**SIGNING & PAVEMENT MARKINGS**  
 (4)



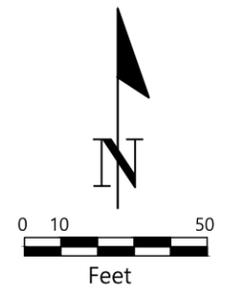
MATCHLINE STA. 257+50.00

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823 CERTIFICATE OF AUTHORIZATION: 29741	MAY 2025	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	
				DESIGNED BY	MPJ	PROJECT NO.		
				DRAWN BY	JSM	6096260		
				CHECKED BY	REH			



**SIGNING & PAVEMENT MARKINGS**  
(5)

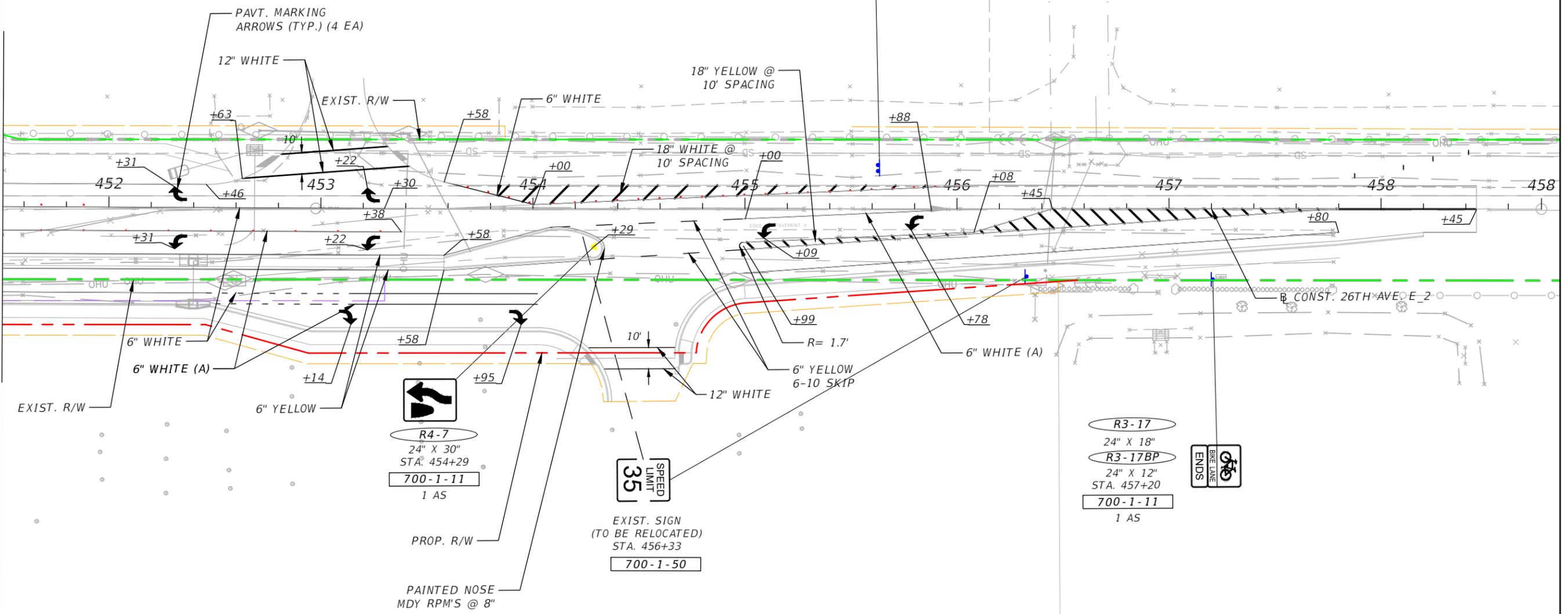
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Benjamin Bower



SIGN NAME: 27TH ST E  
 30" X 72"  
 STA. 113+10  
 700-2-12  
 1 AS



MATCHLINE STA. 451+50.00  
 B CONST. 26TH AVE. E\_2



**R4-7**  
 24" X 30"  
 STA. 454+29  
 700-1-11  
 1 AS

**35**  
 SPEED  
 LIMIT  
 EXIST. SIGN  
 (TO BE RELOCATED)  
 STA. 456+33  
 700-1-50

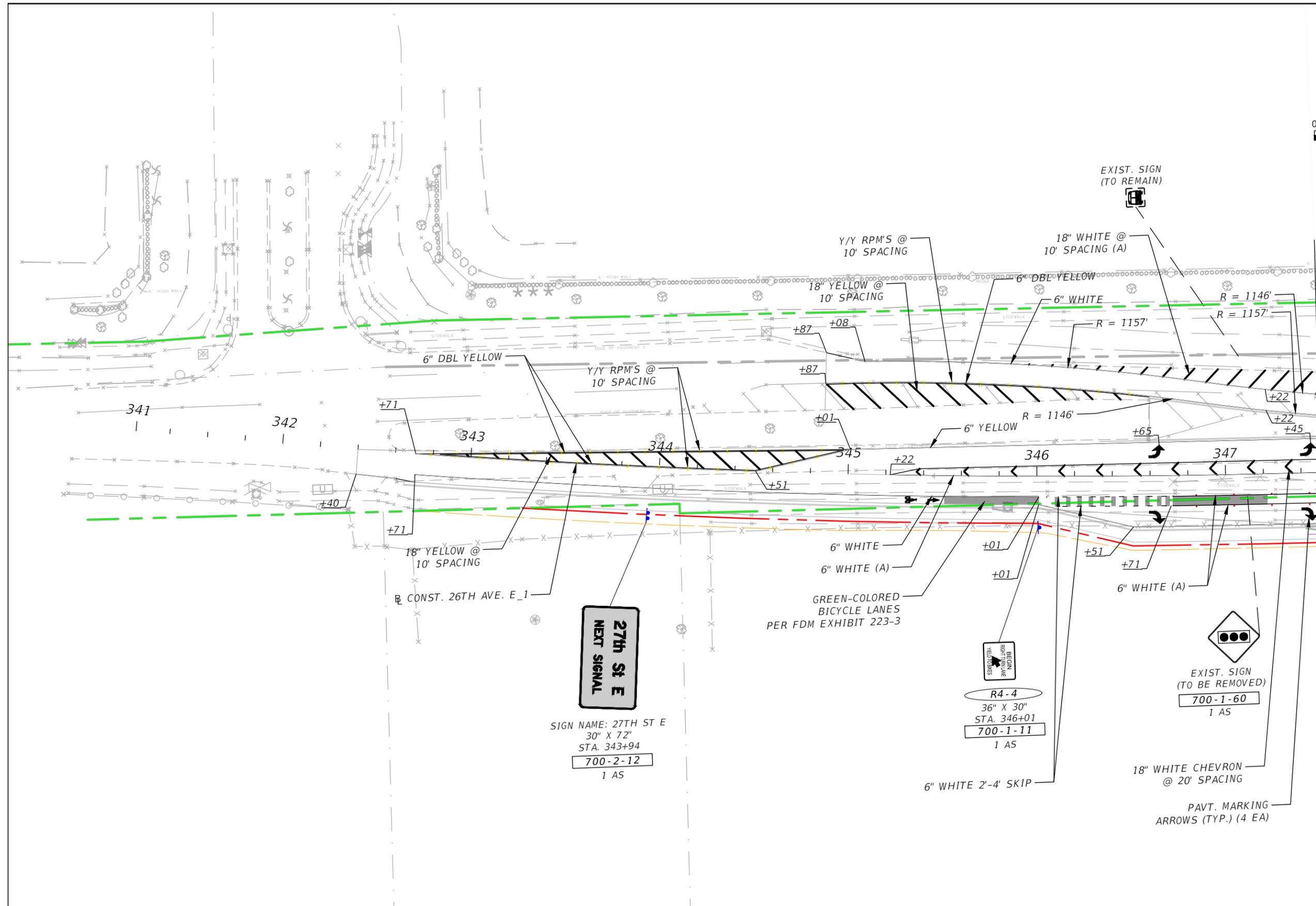
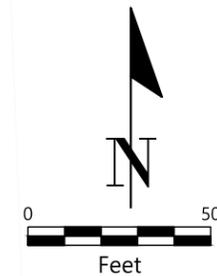
**R3-17**  
 24" X 18"  
**R3-17BP**  
 24" X 12"  
 STA. 457+20  
 700-1-11  
 1 AS



NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823 CERTIFICATE OF AUTHORIZATION: 29741	MAY 2025	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	
				MPJ		PROJECT NO. 6096260		
				JSM				
				REH				



**SIGNING & PAVEMENT MARKINGS**  
 (6)



MATCHLINE STA. 347+50.00  
 @ CONST. 26TH AVE. E\_1

**27th St E**  
**NEXT SIGNAL**

SIGN NAME: 27TH ST E  
 30" X 72"  
 STA. 343+94  
**700-2-12**  
 1 AS

**R4-4**  
 36" X 30"  
 STA. 346+01  
**700-1-11**  
 1 AS

EXIST. SIGN  
 (TO BE REMOVED)  
**700-1-60**  
 1 AS

18" WHITE CHEVRON  
 @ 20' SPACING  
 PAVT. MARKING  
 ARROWS (TYP.) (4 EA)

NO.	REVISIONS	DATE	BY	SCALE	DESIGNED BY	DATE	DESIGN ENGINEER	SHEET NO.
				AS NOTED	HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD. SUITE 310 TAMPA, FL 33634 (813)749-0823 CERTIFICATE OF AUTHORIZATION: 29741	MAY 2025	ROBERT EDWARD HIDECK, P.E. FL. LICENSE NO. 67495	
				DESIGNED BY		PROJECT NO.		
					MPJ	6096260		
					JSM			
					REH			



DESIGN ENGINEER  
 ROBERT EDWARD HIDECK, P.E.  
 FL. LICENSE NO. 67495

**SIGNING & PAVEMENT MARKINGS**  
 (7)



# MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT

## ADA BOARDING PADS W/ SHELTER SLABS

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CONDITION 9	
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A9-002	SECTIONS
CONDITION 10	
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A10-002	SECTIONS
TYPICAL DETAILS	



BACON GROUP, INC.  
ARCHITECTURE  
2641 SUNSET POINT ROAD  
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RICHARD S. BACON, AIA  
AR #0011946

COVER

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

#### REVISIONS

1	
2	
3	

DRAWN BY:

**JRB**

PRINTED DATE:

March 7, 2017

SHEET ID:

**COVER**

PROJECT ID:

BG13-07

**CULVERT NOTES:**

NEW CULVERT TO BE 30" DIAMETER R.C.P.,  
 ASTM C-76 CLASS III WALL B. R.C.P. LENGTH  
 TO BE APPROX. 36' INCLUDING MITERED ENDS.  
 PROVIDE MITERED END SECTIONS, SLOPE  
 PAVEMENT, PIPE GRATES, ETC. ALL IN  
 CONFORMANCE WITH FDOT STD. INDEX  
 DRAWING 273. SLOPE TO BE 4:1. SOLID  
 SOD ALL NEW SLOPES AND EXPOSED  
 DITCH BOTTOM. SLOPE BOTTOM OF NEW  
 CULVERT TO MATCH EXISTING DRAINAGE  
 DITCH SLOPE. - FIELD VERIFY

**SLAB NOTES:**

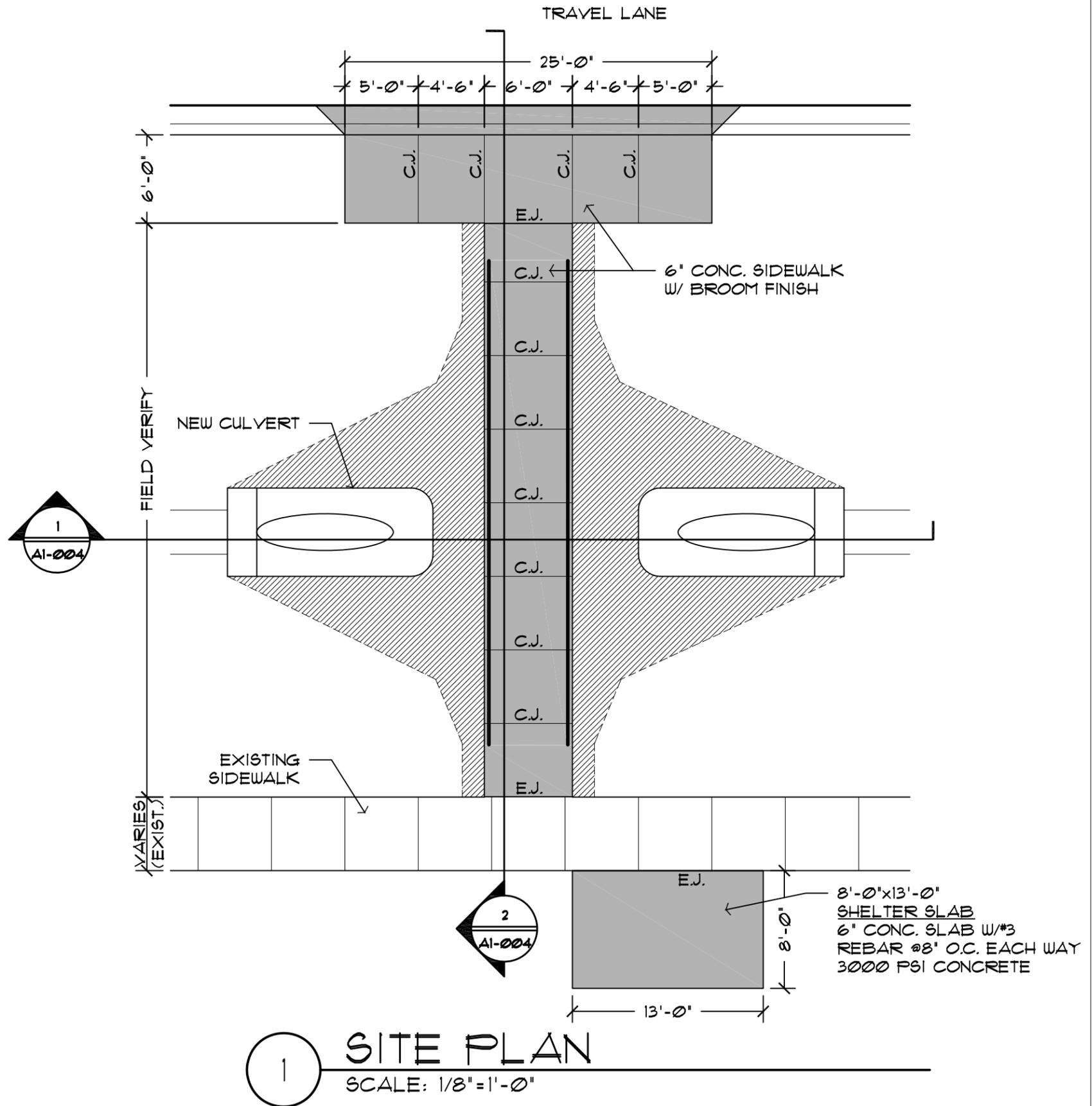
JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**NOTE:**

GRADES FROM EXISTING SIDEWALK TO SIDEWALK  
 MUST BE FIELD VERIFIED.

**LEGEND:**

 EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)



**1 SITE PLAN**  
 SCALE: 1/8" = 1'-0"



**BACON GROUP, INC.**  
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RICHARD S. BACON, AIA  
 AR #0011946

CONDITION 1 SITE PLAN

ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

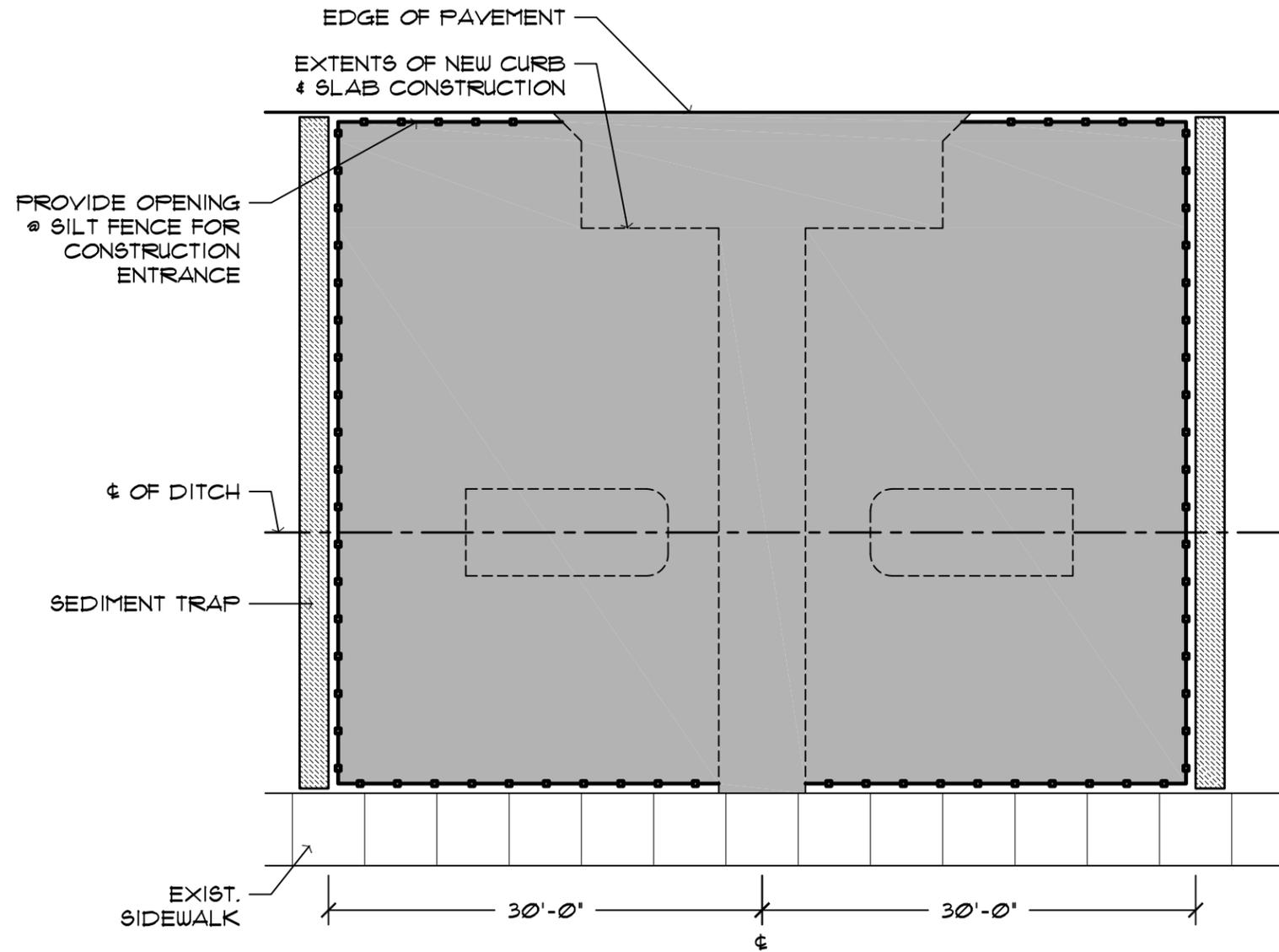
REVISIONS	
1	
2	
3	

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**JRB**

PRINTED DATE:  
 March 7, 2017

SHEET ID:  
**A1 - 001**

PROJECT ID:  
 BG13-07



**LEGEND**

-  SILT FENCE
-  STANDARD STRAW BALES
-  AREA TO BE IMPACTED BY CONSTRUCTION

**1 EROSION CONTROL PLAN**  
SCALE: 3/32" = 1'-0"



RICHARD S. BACON, AIA  
AR #0011946

CONDITION 1 EROSION CONTROL PLAN

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

**REVISIONS**

1	
2	
3	

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**JRB**

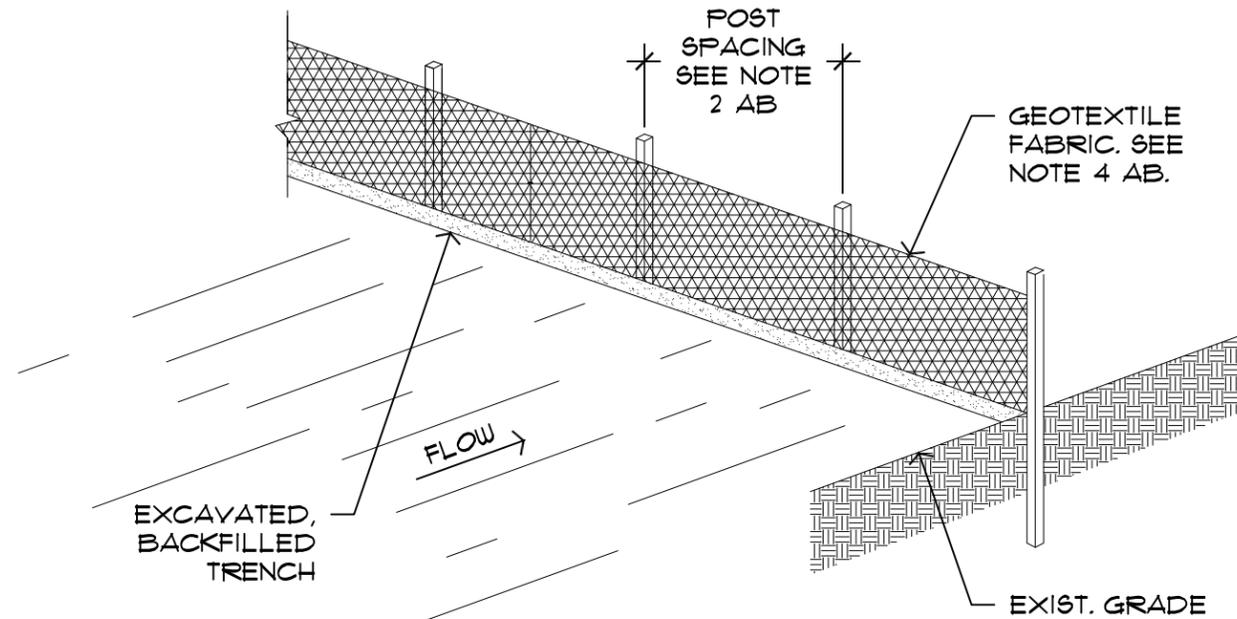
PRINTED DATE:  
March 7, 2017

SHEET ID:  
**A1 - 002**

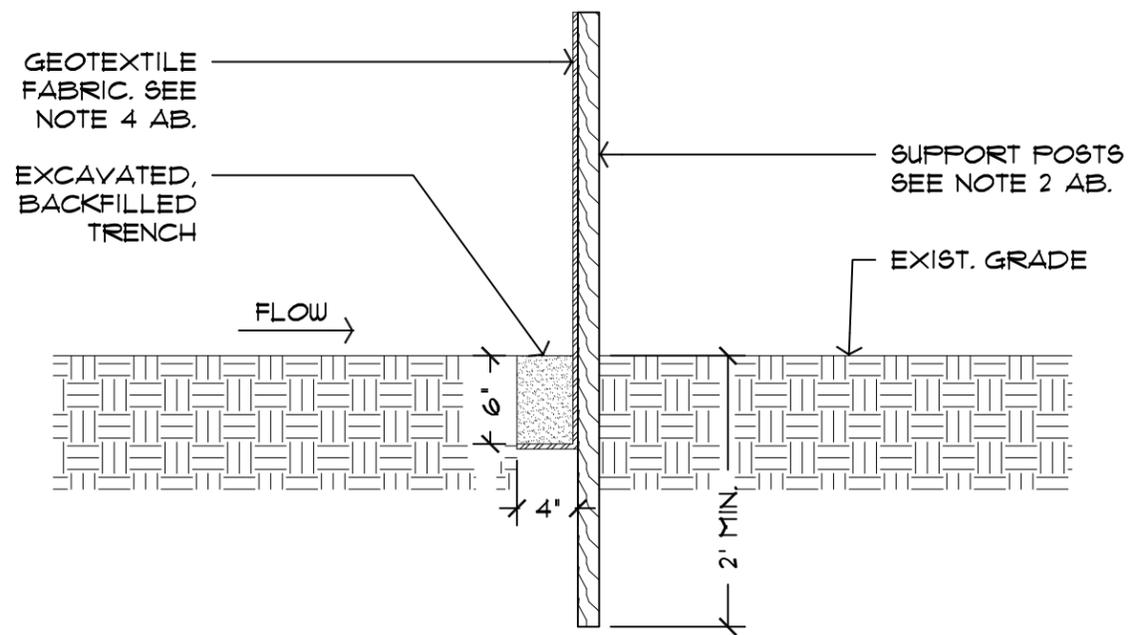
PROJECT ID:  
BG13-07

**NOTES:**

1. GEOTEXTILE FABRIC SHALL BE PLACED IN EXCAVATED TRENCH, BACKFILLED, & COMPACTED TO EXIST. GRADE.
2. WOODEN SUPPORT POSTS SHALL BE P.T. 1 1/8" X 1 1/8" X 4'-0". STEEL POSTS SHALL BE 5'-0" STUDDED 'TEE' OR 'U' TYPE. POSTS SHALL BE 8'-0" O.C. IF WOVEN FABRIC & 3'-0" FOR NON-WOVEN FABRIC.
3. FABRIC FENCE SHALL BE ATTACHED DIRECTLY TO UP-SLOPE SIDE OF POSTS.
4. FOR WD. POSTS, ATTACH FABRIC W/ 1/2" STAPLES @ TOP, MIDDLE & 2" AB. GRADE. FOR STEEL POSTS, ATTACH FABRIC W/ WIRE FASTENERS OR 50 LB PLASTIC TIE STRAPS.
5. GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BOUNDED, RESIN BONDED, OR COMBINATIONS THEREOF.



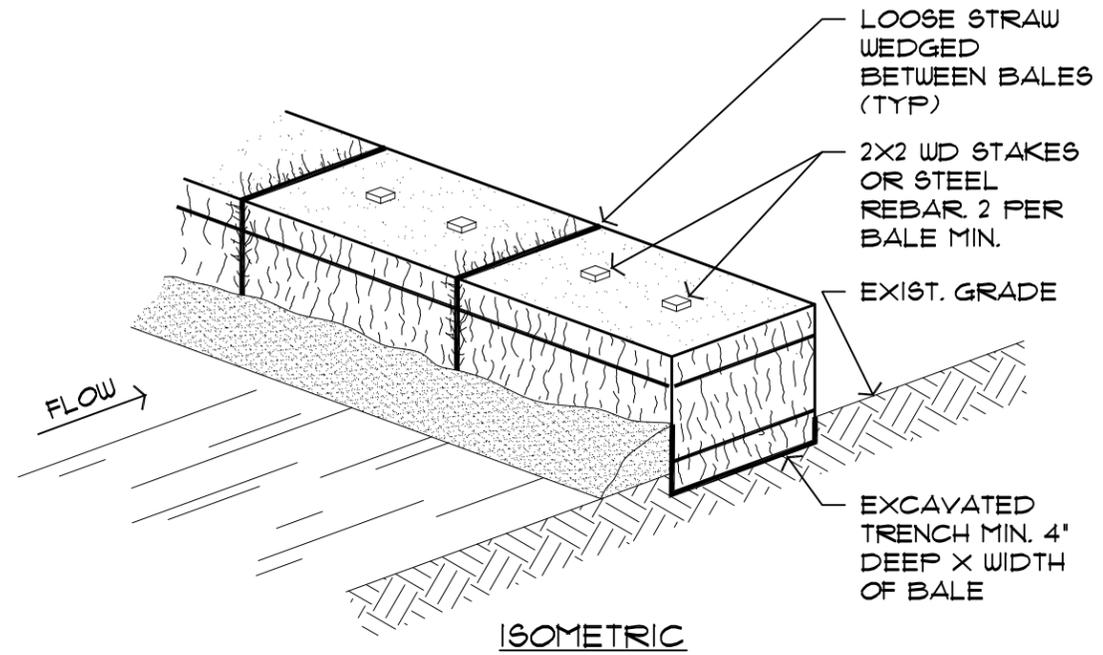
**ISOMETRIC**



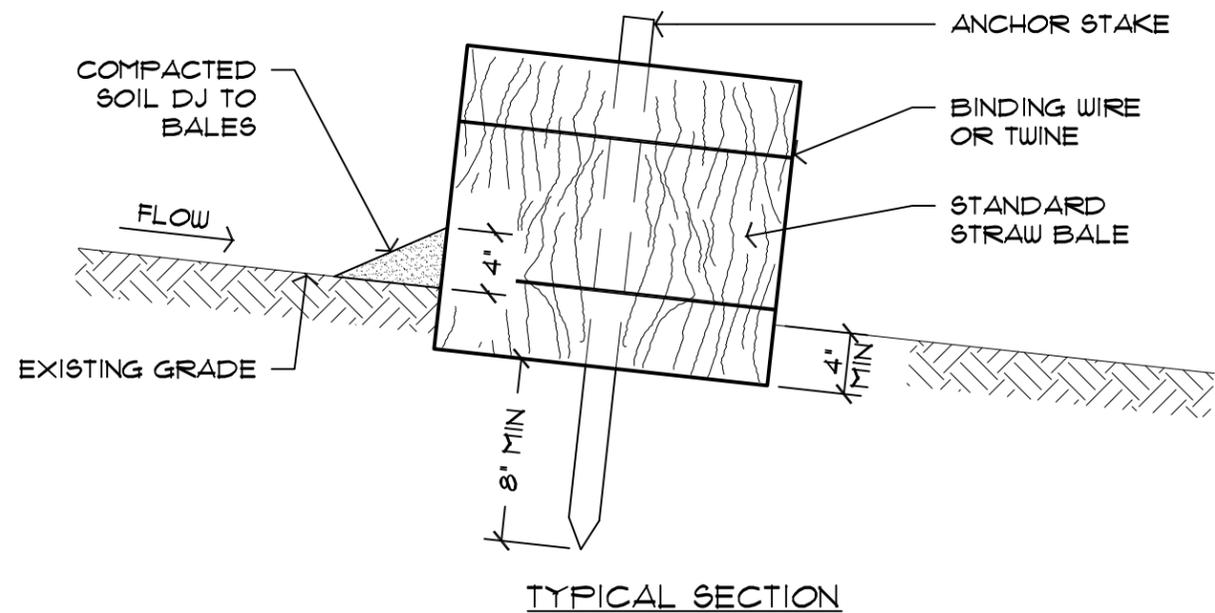
**TYPICAL SECTION**

**NOTES:**

1. TURN STRAW BALE ENDS UP 1'-0" MIN. UP-SLOPE AVERT.
2. STRAW BALES SHALL BUTT TOGETHER AS CLOSE AS POSSIBLE
3. AFTER INSTALLATION OF FIRST BALE, THE FIRST STAKE OF THE NEXT BALE SHALL BE DRIVEN TOWARDS THE PREVIOUS BALE (TYPICAL FOR REMAINDER OF BALES)



**ISOMETRIC**



**TYPICAL SECTION**



**BACON GROUP, INC.**  
ARCHITECTURE  
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RICHARD S. BACON, AIA  
AR #0011946

CONDITION 1 TYPICAL EROSION CONTROL DETAILS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS	
1	
2	
3	

DRAWN BY:  
**JRB**

PRINTED DATE:  
March 7, 2017

SHEET ID:  
**A1 - 003**

PROJECT ID:  
BG13-07



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RICHARD S. BACON, AIA  
AR #0011946

CONDITION 1 SECTION

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

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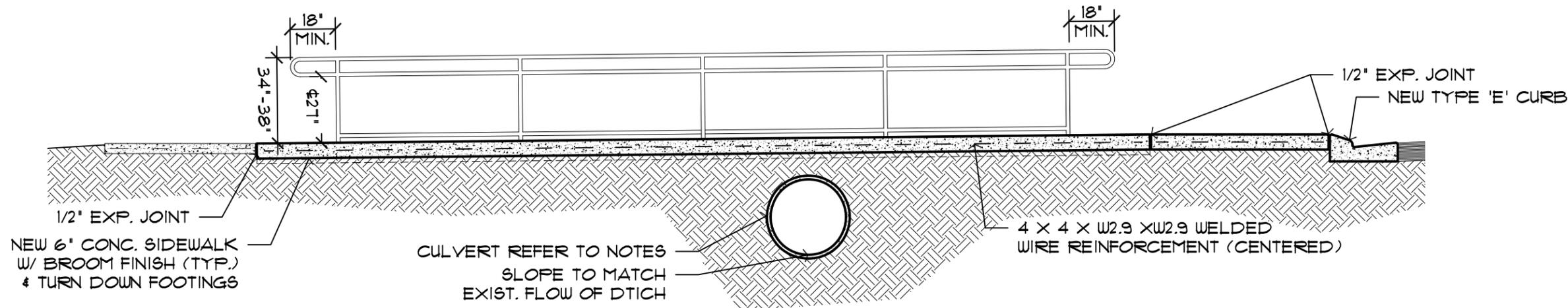
March 7, 2017

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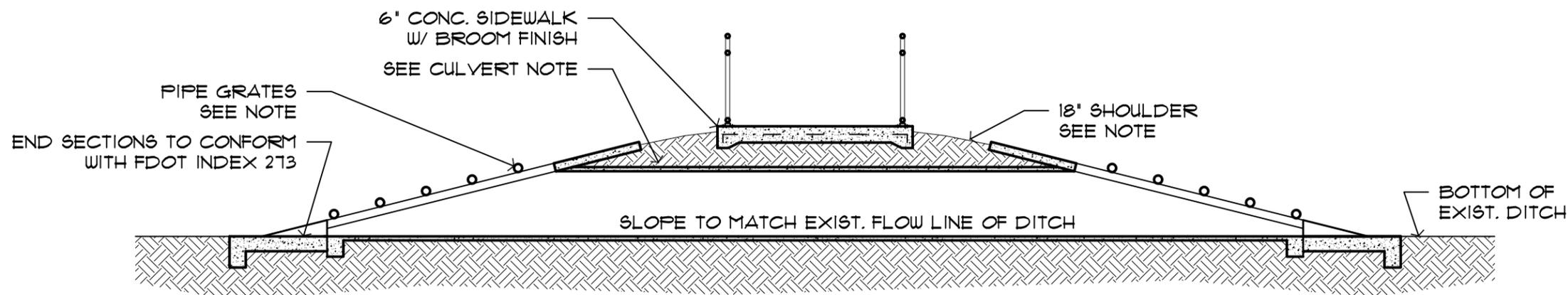
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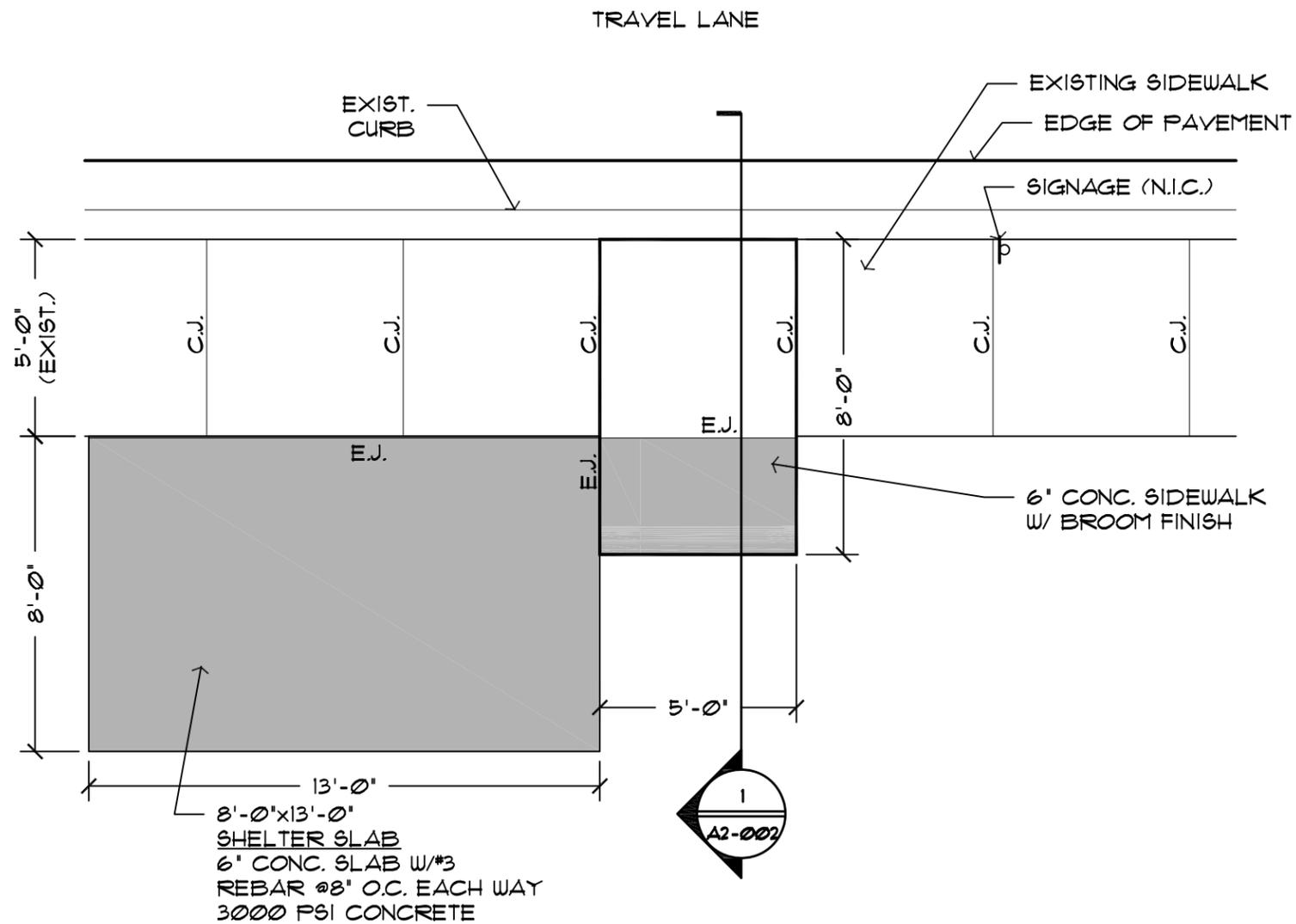
BG13-07



2 SECTION  
SCALE: 1/4" = 1'-0"



1 SECTION  
SCALE: 1/4" = 1'-0"



**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**LEGEND:**

 EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

**1 SITE PLAN**  
 SCALE: 1/4" = 1'-0"



BACON GROUP, INC.  
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RICHARD S. BACON, AIA  
 AR #0011946

CONDITION 2 SITE PLAN

ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

**REVISIONS**

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RICHARD S. BACON, AIA  
AR #0011946

CONDITION 2 SECTIONS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

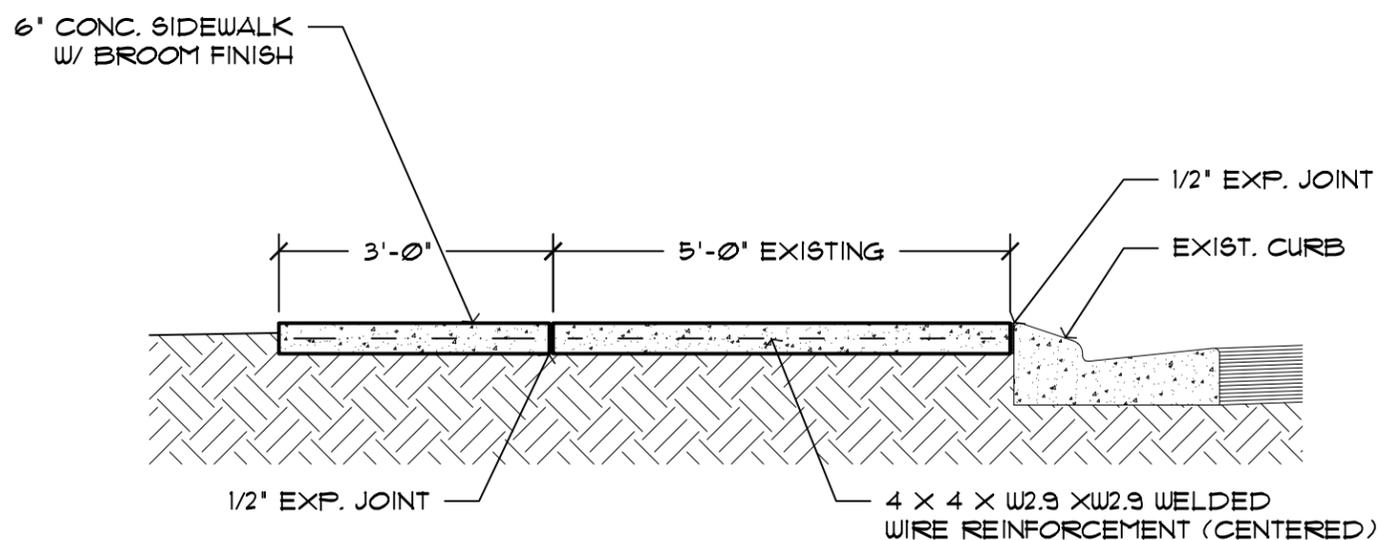
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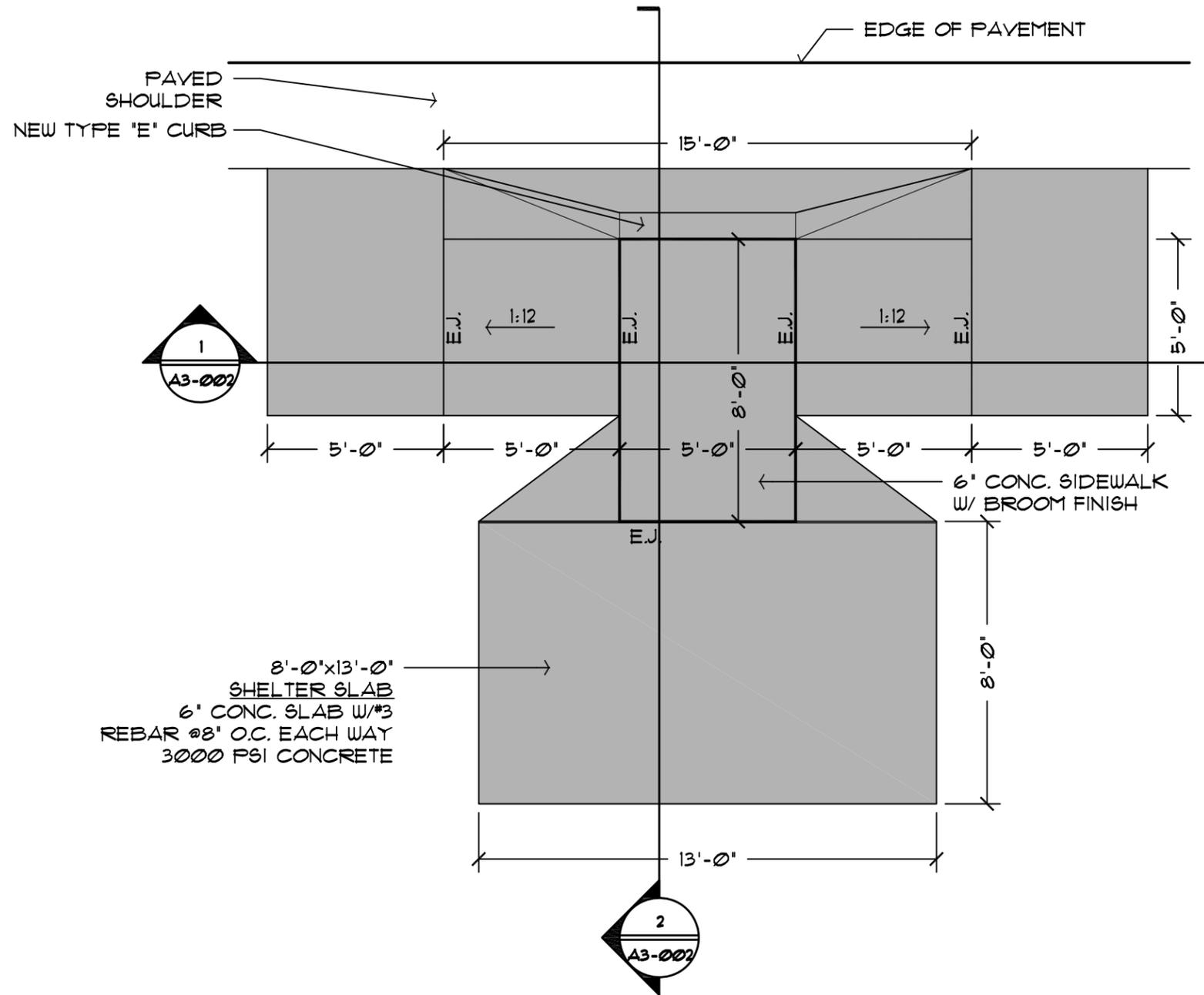
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**A2 - 002**

PROJECT ID:  
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**1** SECTION  
SCALE: 1/2" = 1'-0"



**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**LEGEND:**

■ EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

1 **SITE PLAN**  
 SCALE: 1/4" = 1'-0"



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RICHARD S. BACON, AIA  
 AR #0011946

CONDITION 3 SITE PLAN

ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

**REVISIONS**

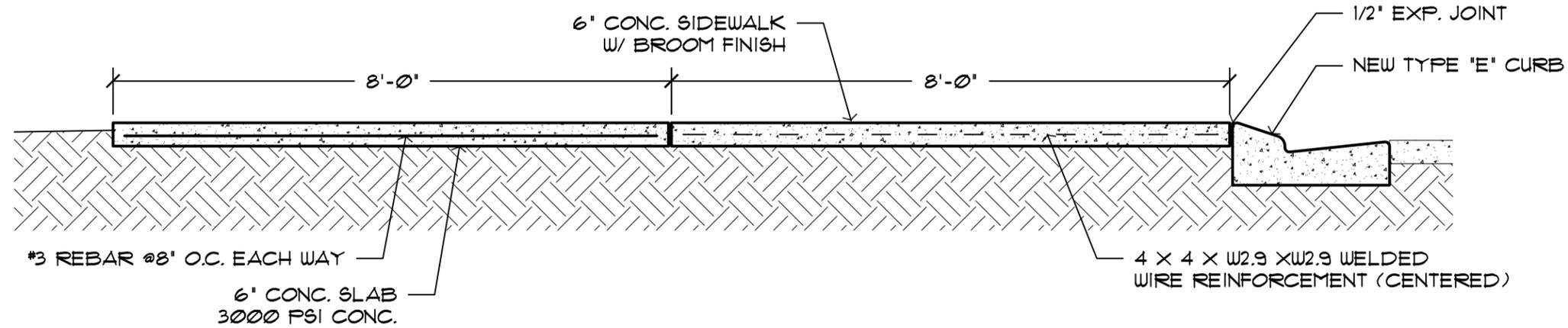
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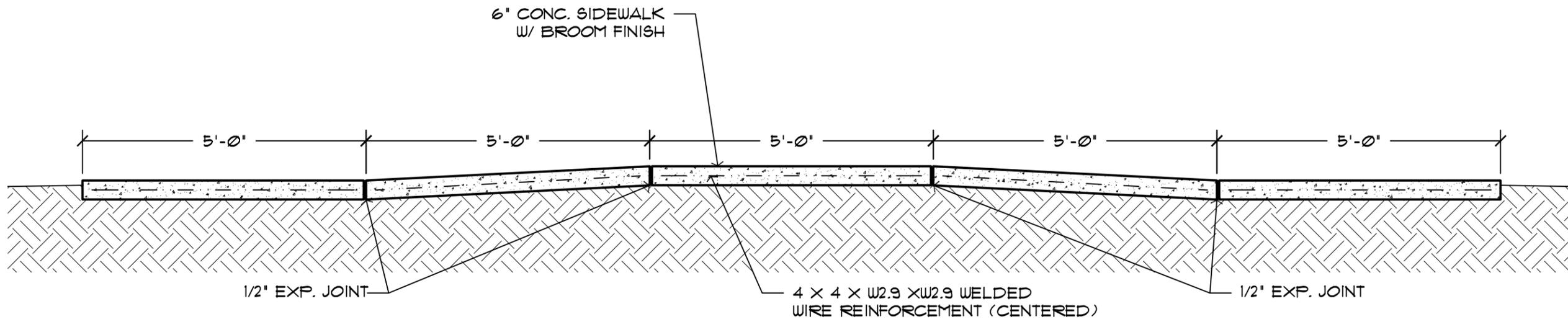
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PROJECT ID:  
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2 SECTION  
SCALE: 1/2" = 1'-0"



1 SECTION  
SCALE: 1/2" = 1'-0"



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AR #0011946

CONDITION 3 SECTIONS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

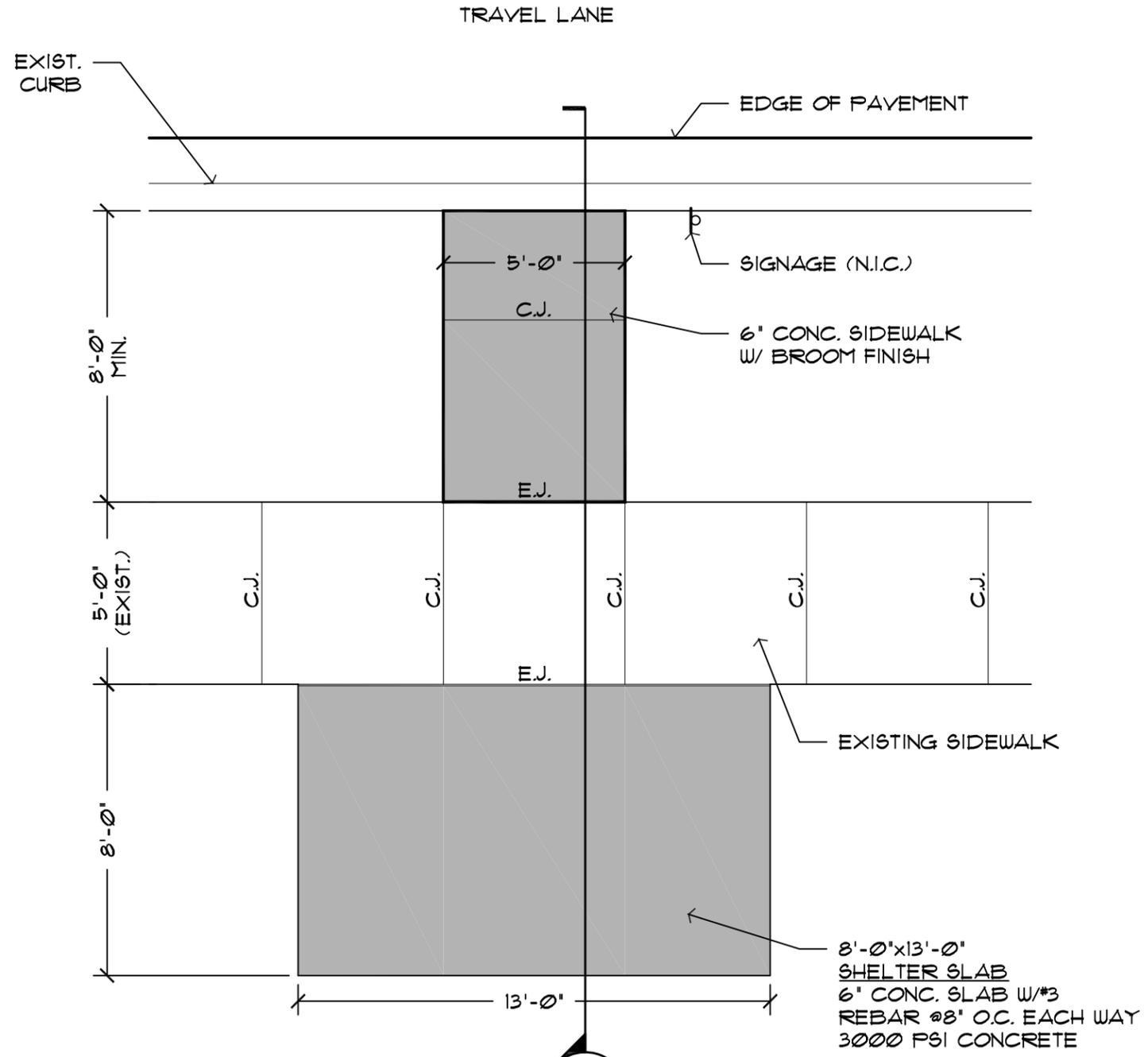
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PROJECT ID:  
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**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**LEGEND:**

■ EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

**1 SITE PLAN**  
 SCALE: 1/4" = 1'-0"



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RICHARD S. BACON, AIA  
 AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
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REVISIONS	
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CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

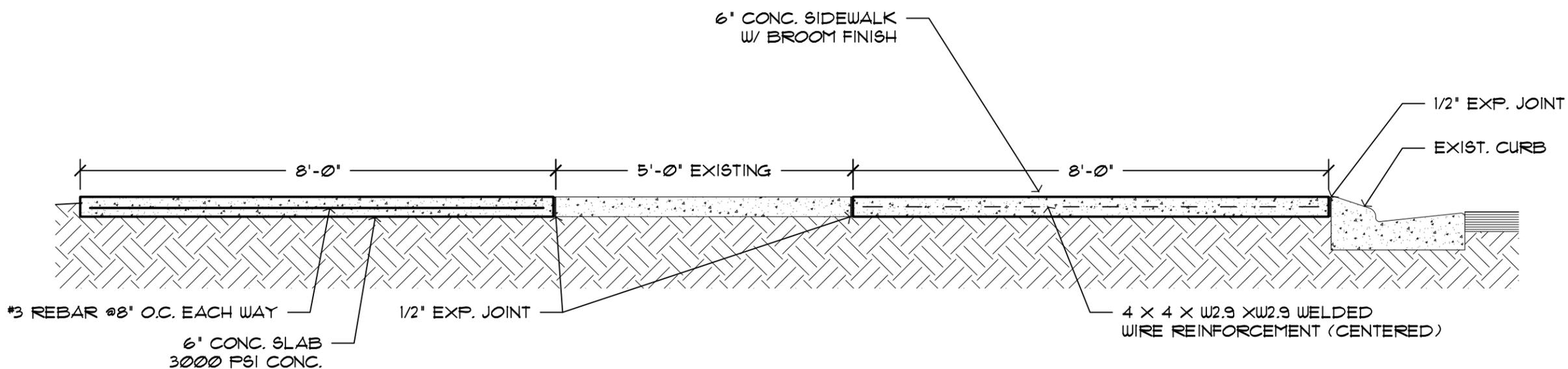
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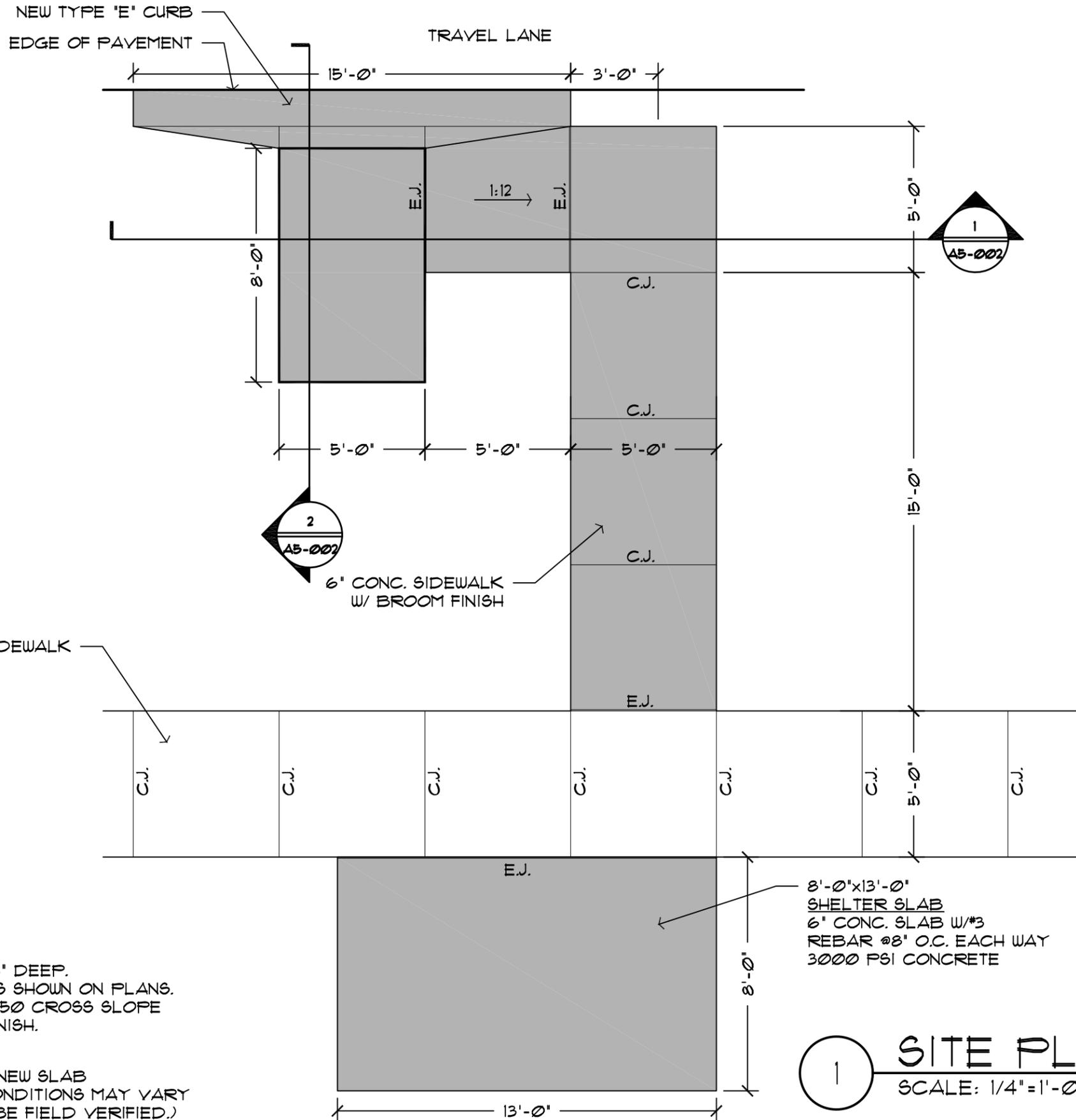
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PROJECT ID:  
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**1** SECTION  
SCALE: 1/2" = 1'-0"



**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**LEGEND:**

 EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

**1** **SITE PLAN**  
 SCALE: 1/4" = 1'-0"



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RICHARD S. BACON, AIA  
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CONDITION 5 SITE PLAN

ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

**REVISIONS**

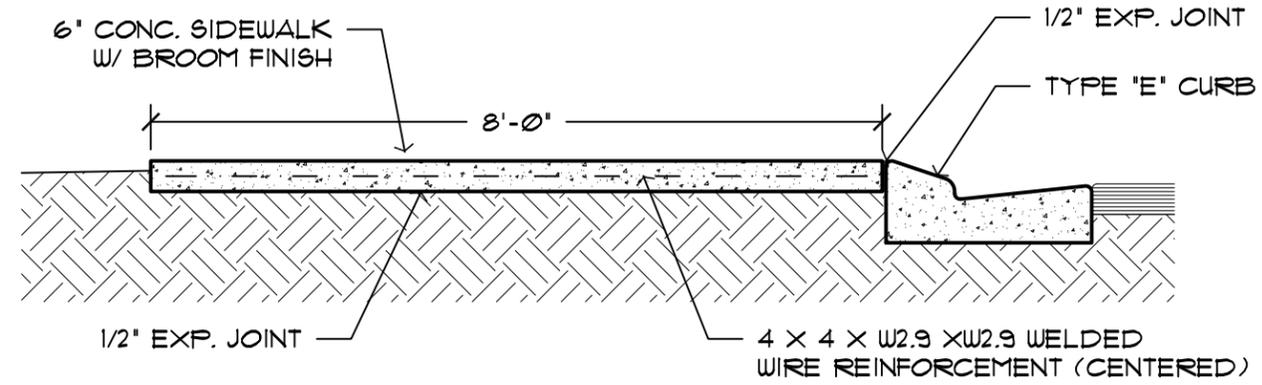
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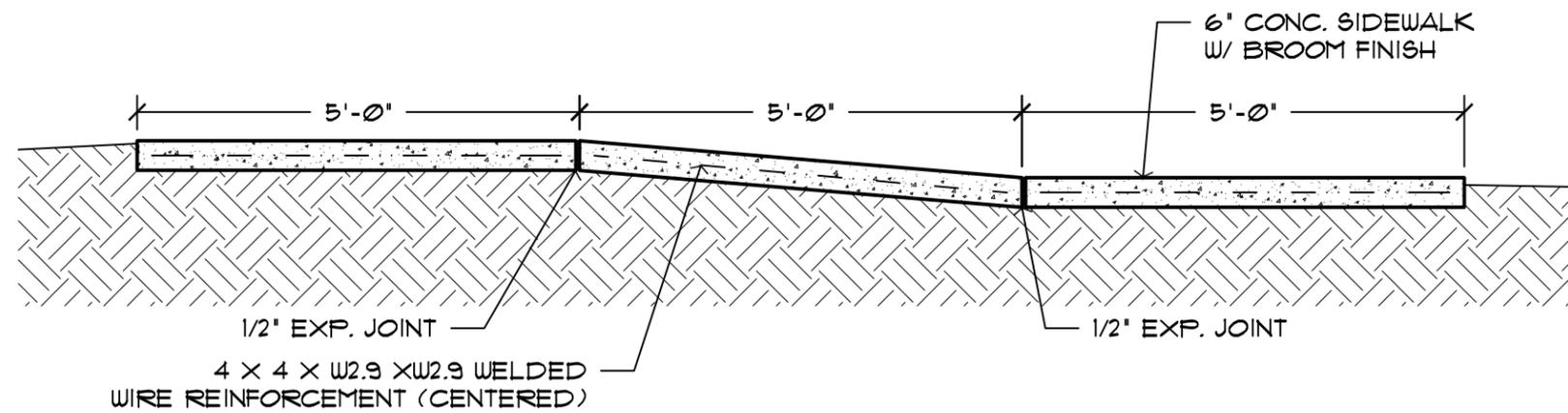
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PROJECT ID:  
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**2** SECTION  
SCALE: 1/2" = 1'-0"



**1** SECTION  
SCALE: 1/2" = 1'-0"



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AR #0011946

CONDITION 5 SECTIONS  
ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
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BRADENTON, FLORIDA 34208

REVISIONS

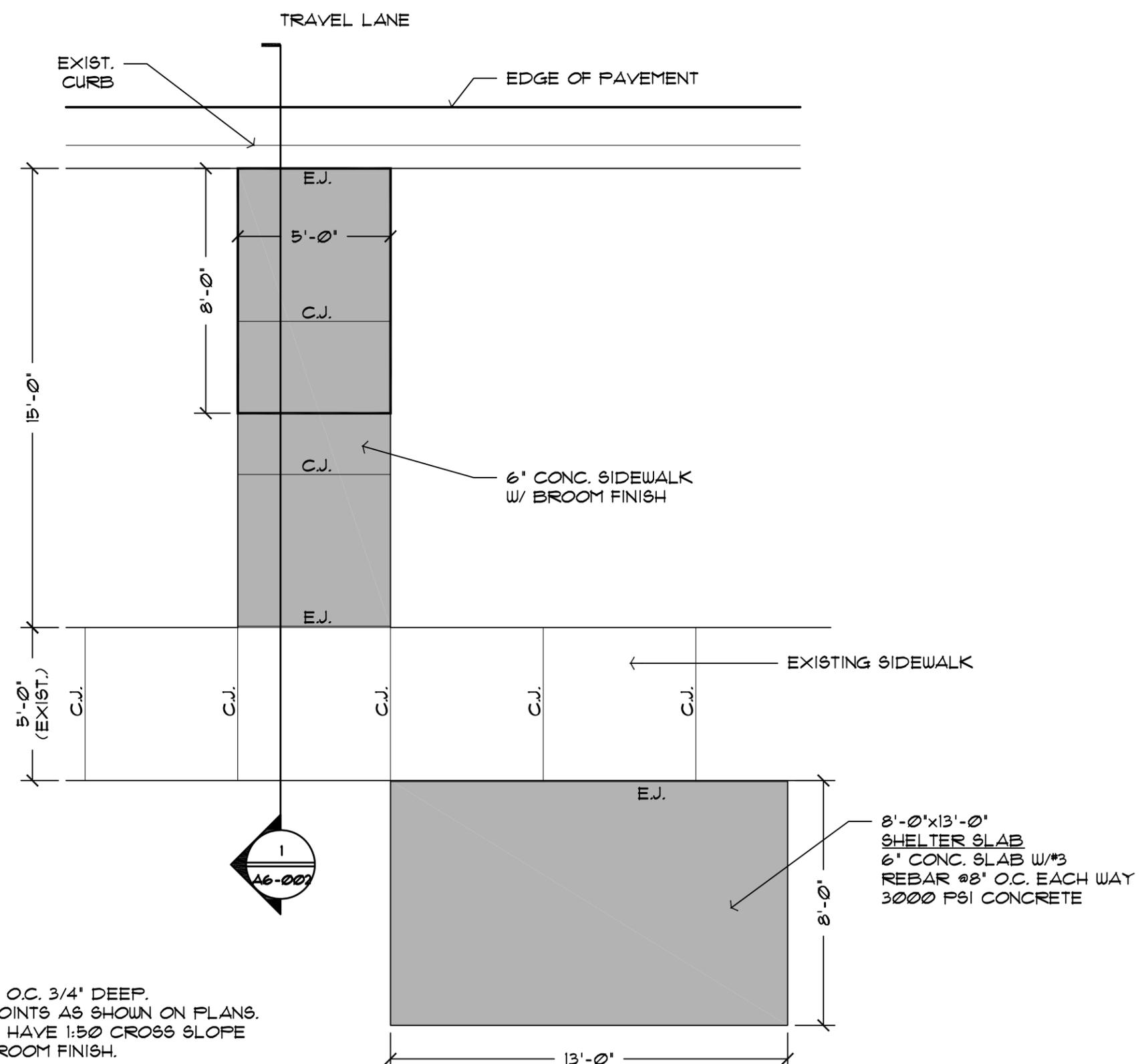
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PROJECT ID:  
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**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.  
**LEGEND:**

EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

1
**SITE PLAN**  
 SCALE: 1/4" = 1'-0"



RICHARD S. BACON, AIA  
 AR #0011946

**CONDITION 6 SITE PLAN**  
 ADA BOARDING PAD PROJECT  
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

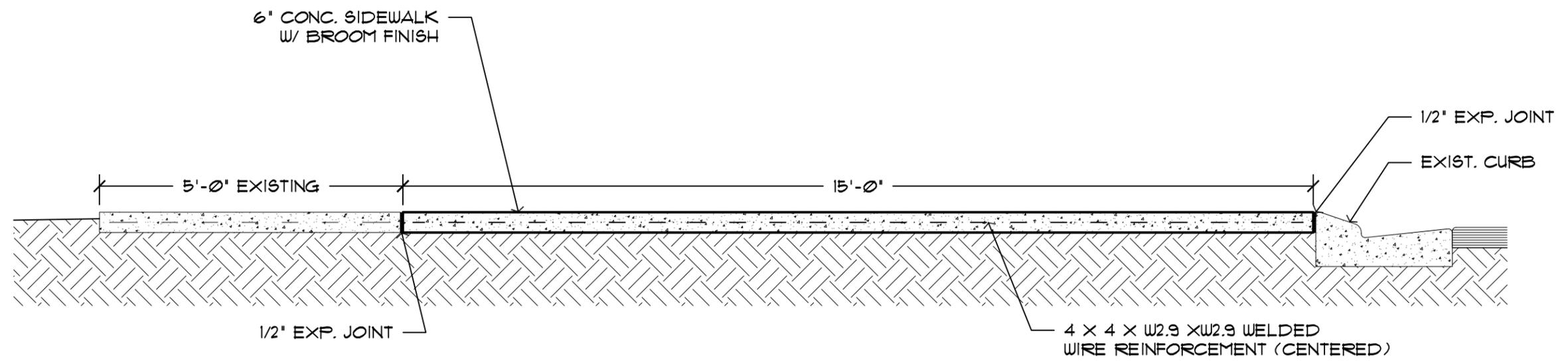
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PROJECT ID:  
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1 SECTION  
SCALE: 1/2" = 1'-0"



RICHARD S. BACON, AIA  
AR #0011946

CONDITION 6 SECTIONS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

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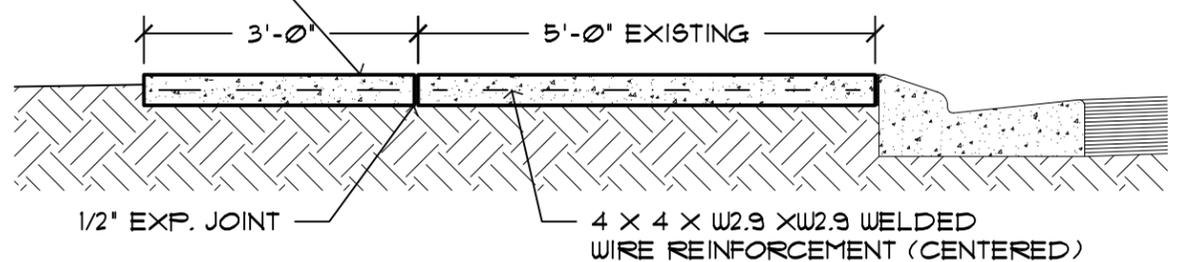
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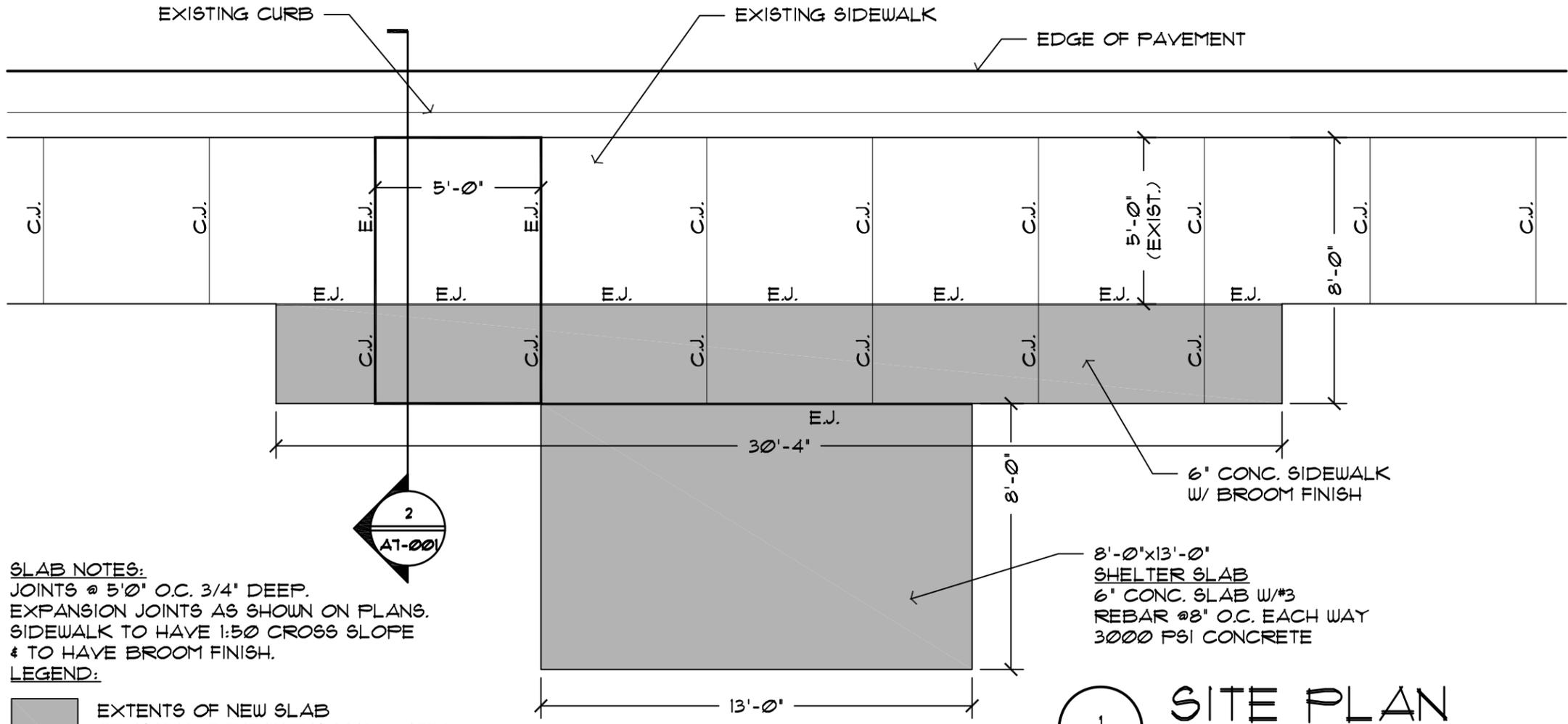
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**A6 - 002**

PROJECT ID:  
BG13-07

6" CONC. SIDEWALK  
W/ BROOM FINISH



**2 SECTION**  
SCALE: 1/2" = 1'-0"



**SLAB NOTES:**  
JOINTS @ 5'-0" O.C. 3/4" DEEP.  
EXPANSION JOINTS AS SHOWN ON PLANS.  
SIDEWALK TO HAVE 1:50 CROSS SLOPE  
& TO HAVE BROOM FINISH.

**LEGEND:**  
[Shaded Box] EXTENTS OF NEW SLAB  
(EXISTING CONDITIONS MAY VARY  
AND SHALL BE FIELD VERIFIED.)

**1 SITE PLAN**  
SCALE: 1/4" = 1'-0"



RICHARD S. BACON, AIA  
AR #0011946

CONDITION 7 SITE PLAN & SECTION  
ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

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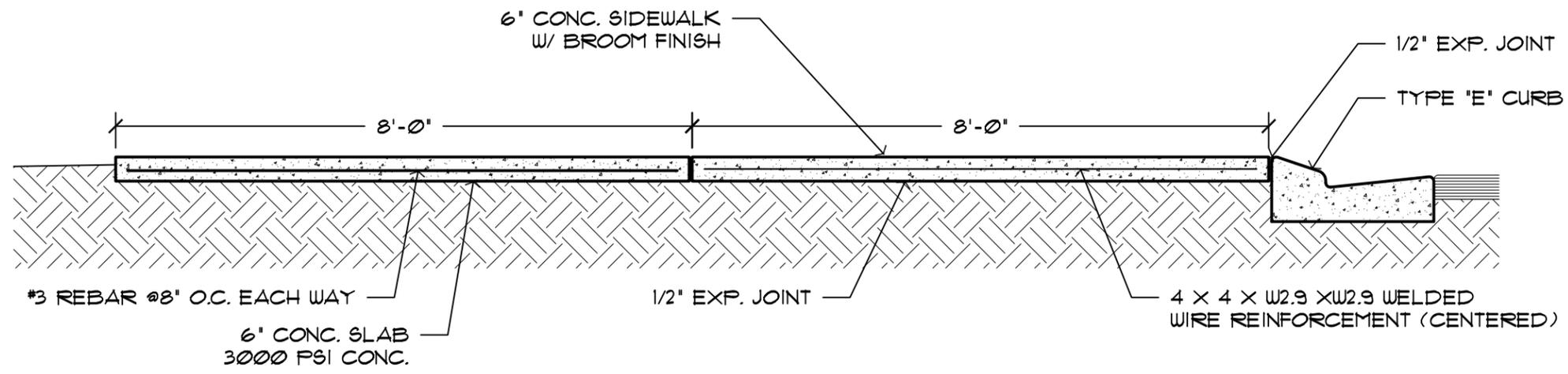
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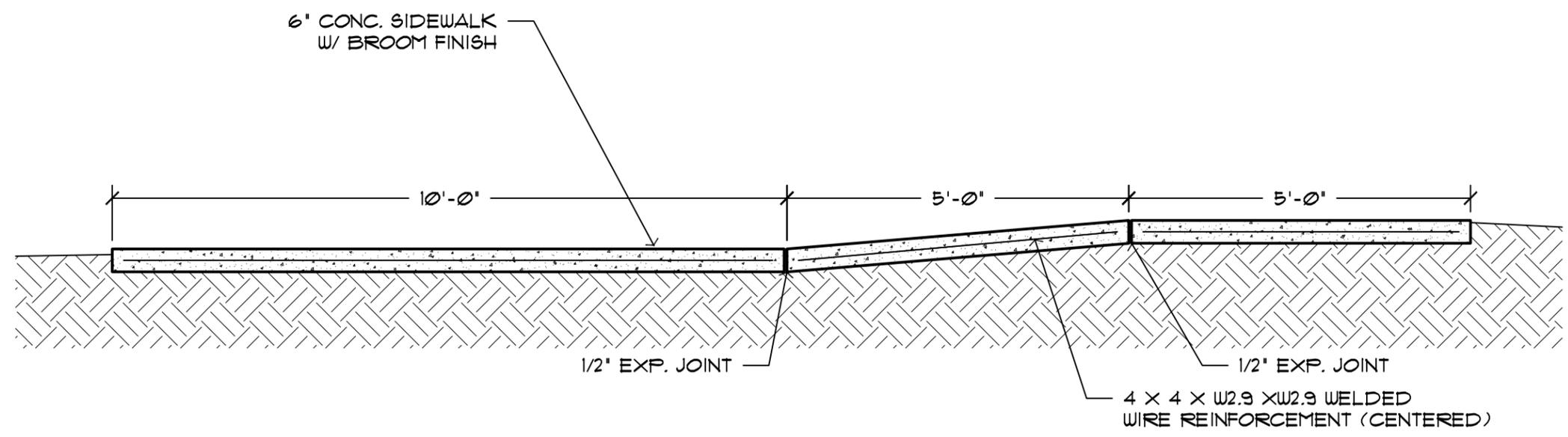
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**A7 - 001**

PROJECT ID:  
BG13-07





**2** SECTION  
SCALE: 1/2" = 1'-0"



**1** SECTION  
SCALE: 1/2" = 1'-0"



RICHARD S. BACON, AIA  
AR #0011946

CONDITION 8 SECTIONS  
ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

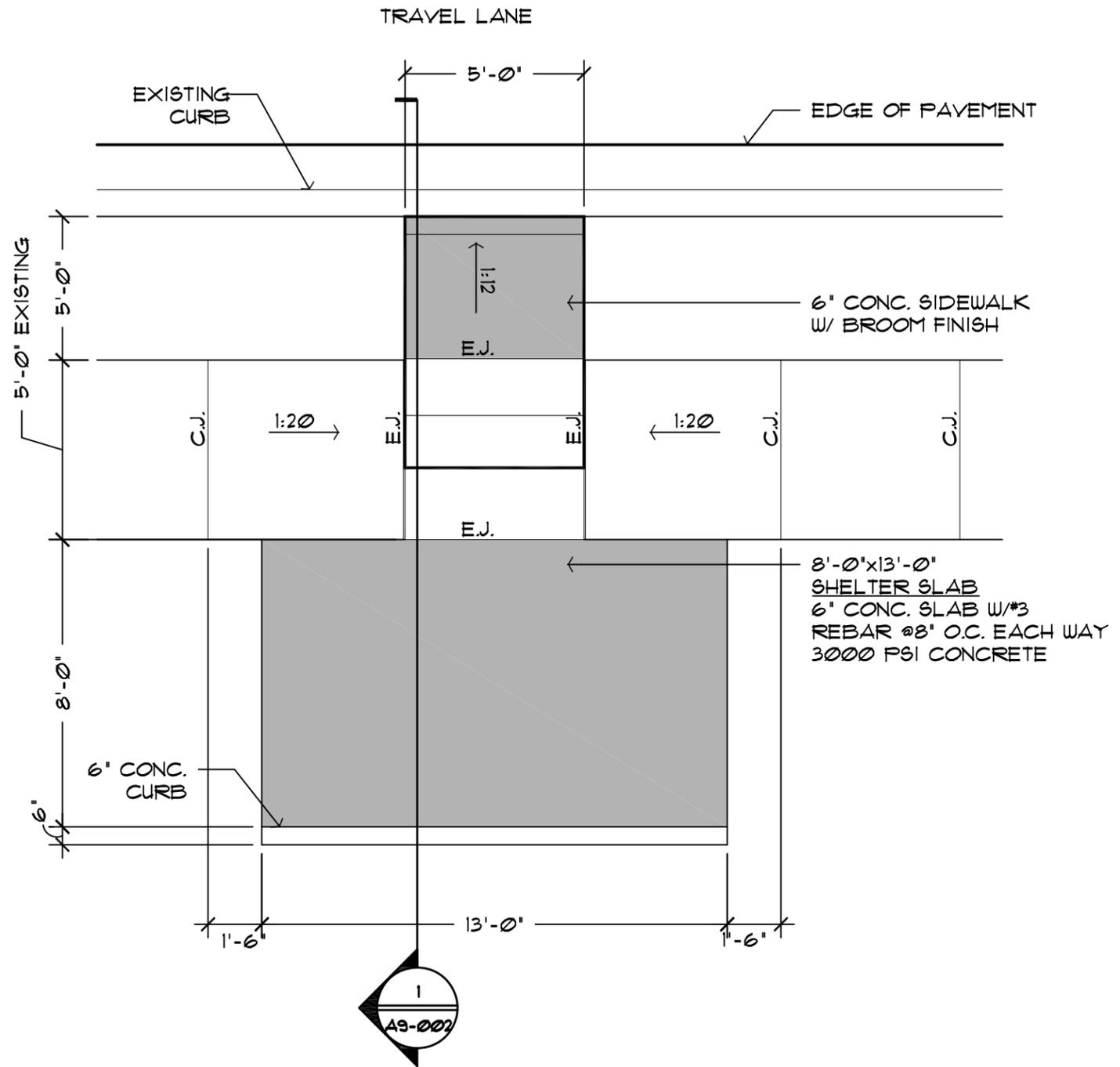
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PROJECT ID:  
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**SLAB NOTES:**  
 JOINTS @ 5'-0" O.C. 3/4" DEEP.  
 EXPANSION JOINTS AS SHOWN ON PLANS.  
 SIDEWALK TO HAVE 1:50 CROSS SLOPE  
 & TO HAVE BROOM FINISH.

**LEGEND:**

 EXTENTS OF NEW SLAB  
 (EXISTING CONDITIONS MAY VARY  
 AND SHALL BE FIELD VERIFIED.)

**1 SITE PLAN**  
 SCALE: 1/4" = 1'-0"



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RICHARD S. BACON, AIA  
 AR #0011946

CONDITION 9 SITE PLAN  
 ADA BOARDING PAD PROJECT  
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 1108 26th AVENUE EAST  
 BRADENTON, FLORIDA 34208

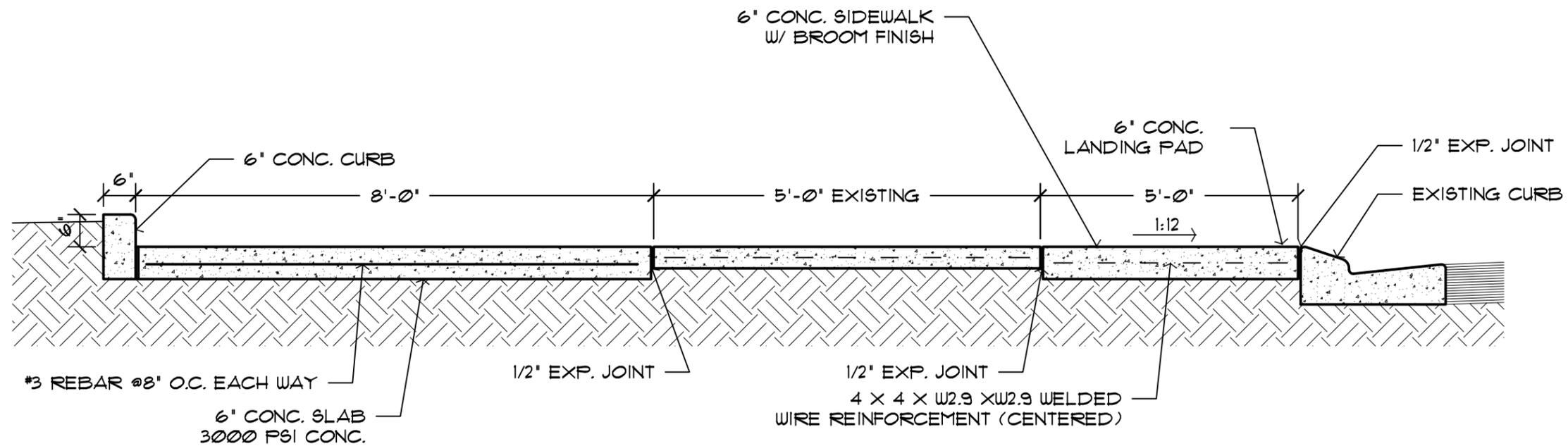
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1 SECTION  
SCALE: 1/2" = 1'-0"



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CONDITION 9 SECTIONS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

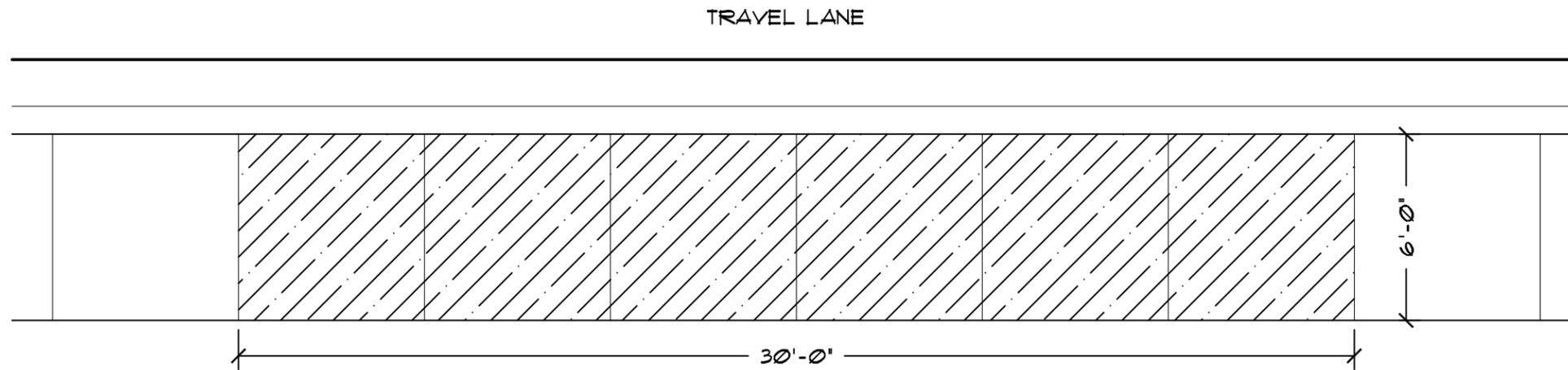
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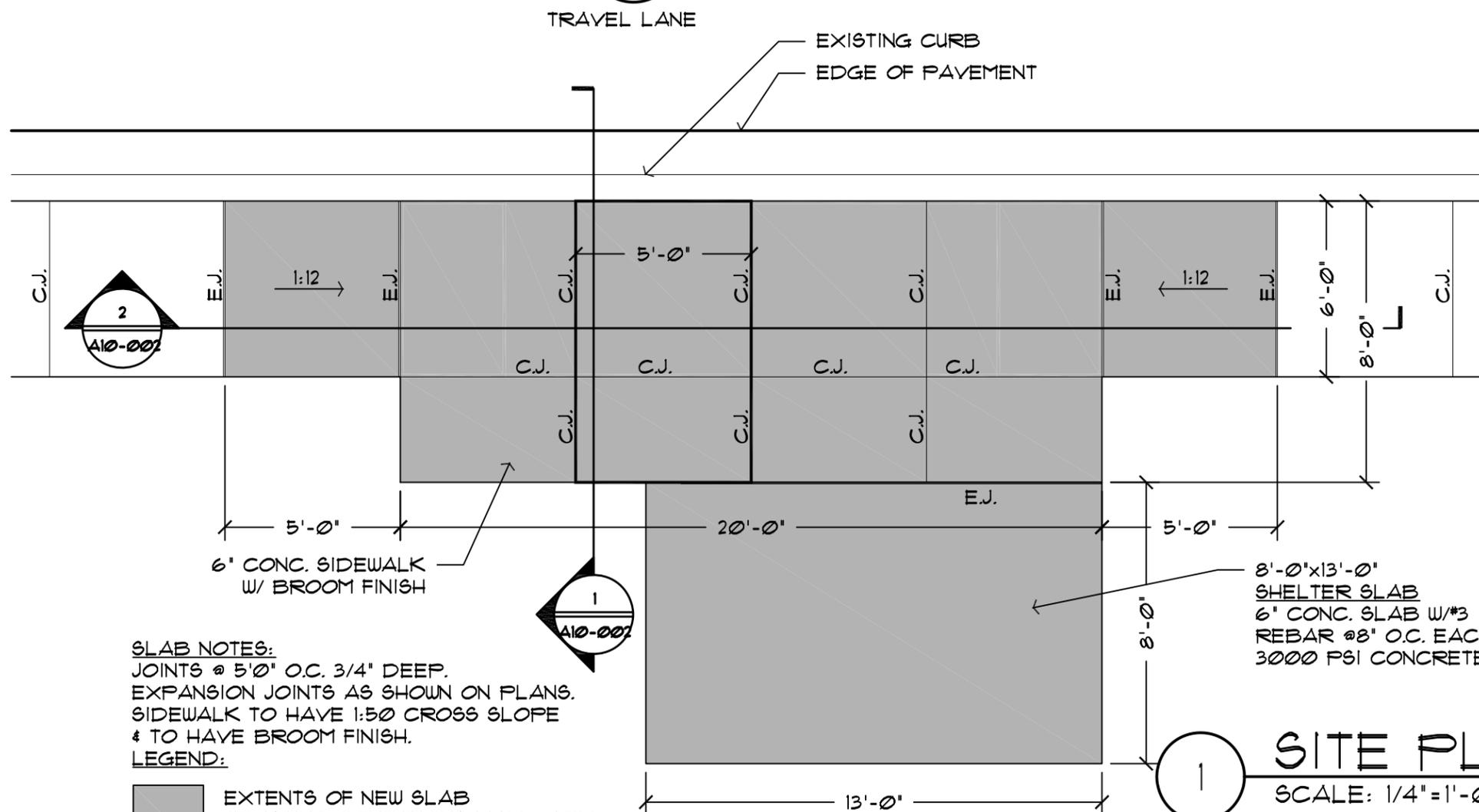
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PROJECT ID:  
BG13-07



**2 SITE DEMO. PLAN**  
SCALE: 1/4" = 1'-0"



**SLAB NOTES:**  
JOINTS @ 5'-0" O.C. 3/4" DEEP.  
EXPANSION JOINTS AS SHOWN ON PLANS.  
SIDEWALK TO HAVE 1:50 CROSS SLOPE  
& TO HAVE BROOM FINISH.

**LEGEND:**

■ EXTENTS OF NEW SLAB  
(EXISTING CONDITIONS MAY VARY  
AND SHALL BE FIELD VERIFIED.)



RICHARD S. BACON, AIA  
AR #0011946

CONDITION 10 SITE PLAN & DEMO. PLAN

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

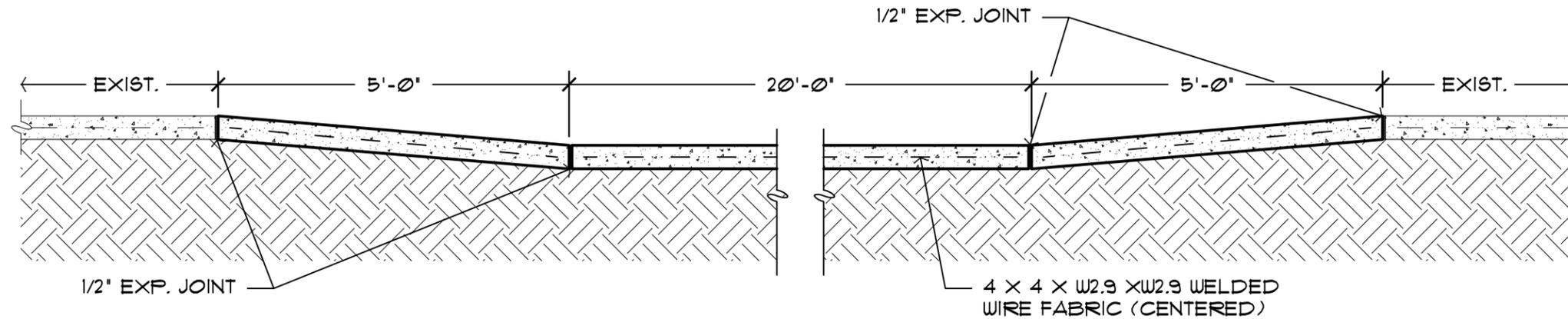
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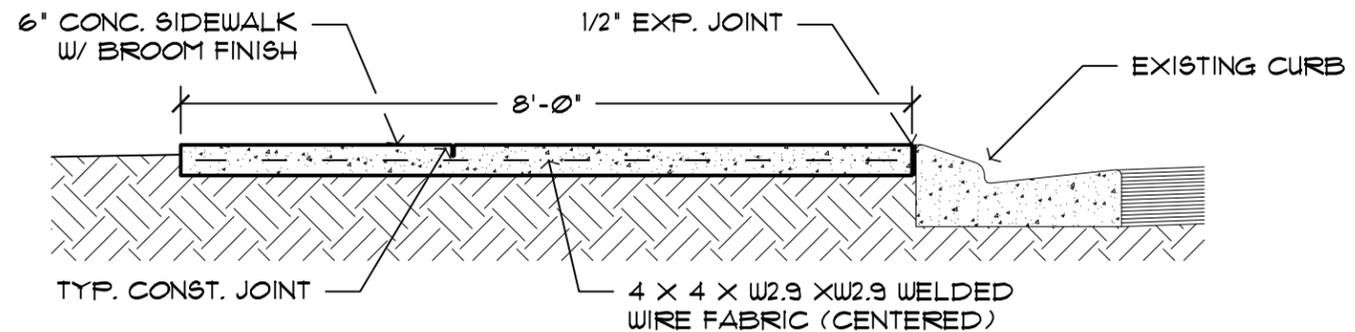
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**A10 - 001**

PROJECT ID:  
BG13-07



1 TYPICAL SECTION  
SCALE: 1/2" = 1'-0"



1 TYPICAL SECTION  
SCALE: 1/2" = 1'-0"



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RICHARD S. BACON, AIA  
AR #0011946

CONDITION 10 SECTIONS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

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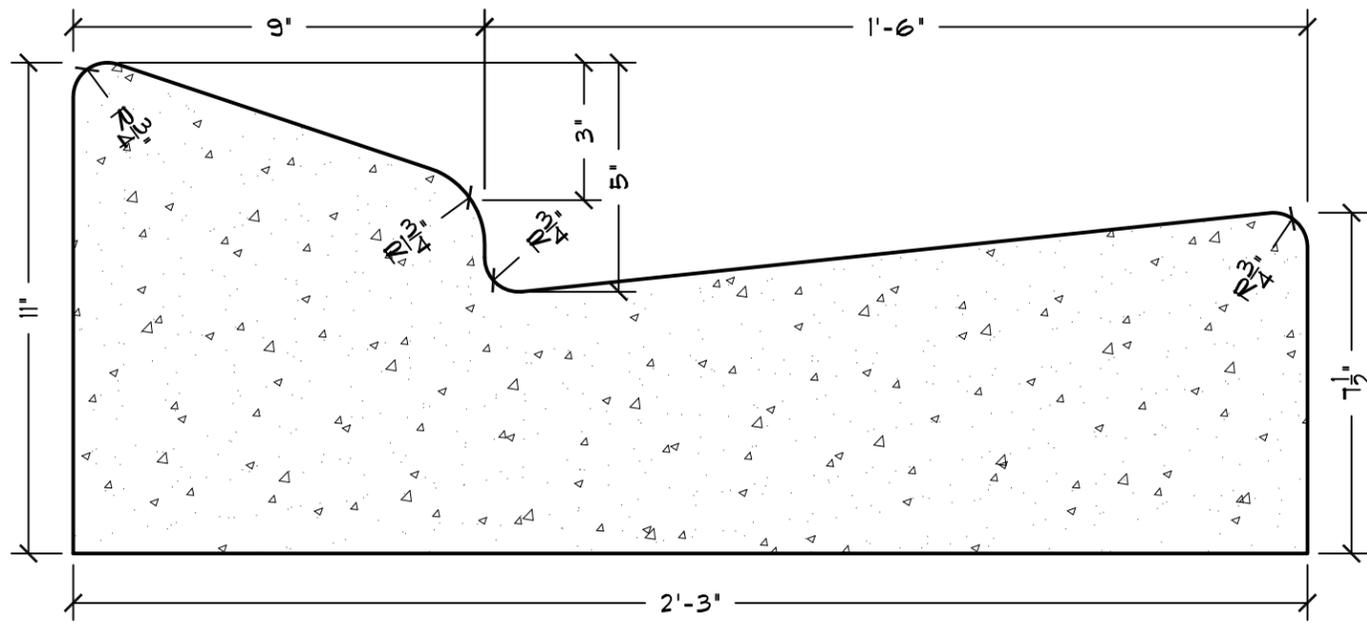
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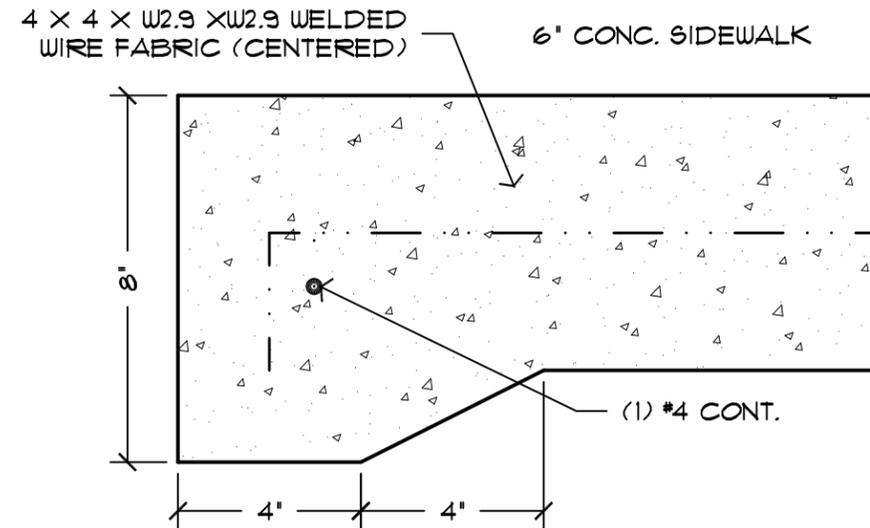
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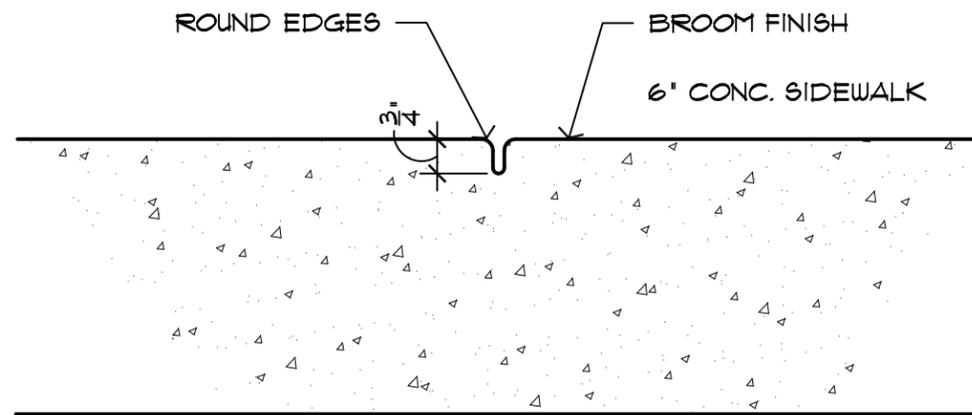
BG13-07



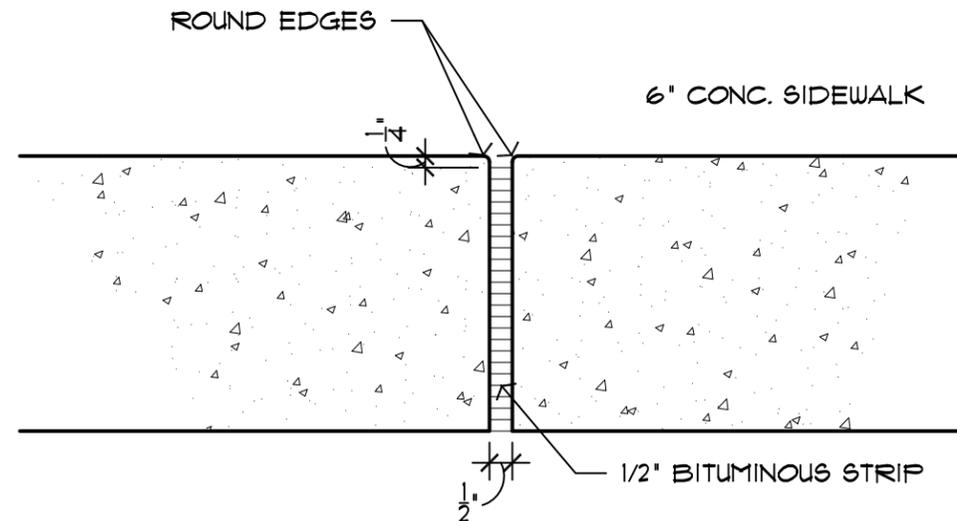
4 TYPE "E" CURB  
SCALE: 3"=1'-0"



3 TYP. TURNDOWN SLAB  
SCALE: 3"=1'-0"



2 TYP. CONSTRUCTION JOINT  
SCALE: 3"=1'-0"



1 TYP. EXPANSION JOINT  
SCALE: 3"=1'-0"



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RICHARD S. BACON, AIA  
AR #0011946

STANDARD DETAILS

ADA BOARDING PAD PROJECT  
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT  
1108 26th AVENUE EAST  
BRADENTON, FLORIDA 34208

REVISIONS

1	
2	
3	

DRAWN BY:

JRB

PRINTED DATE:

March 7, 2017

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