

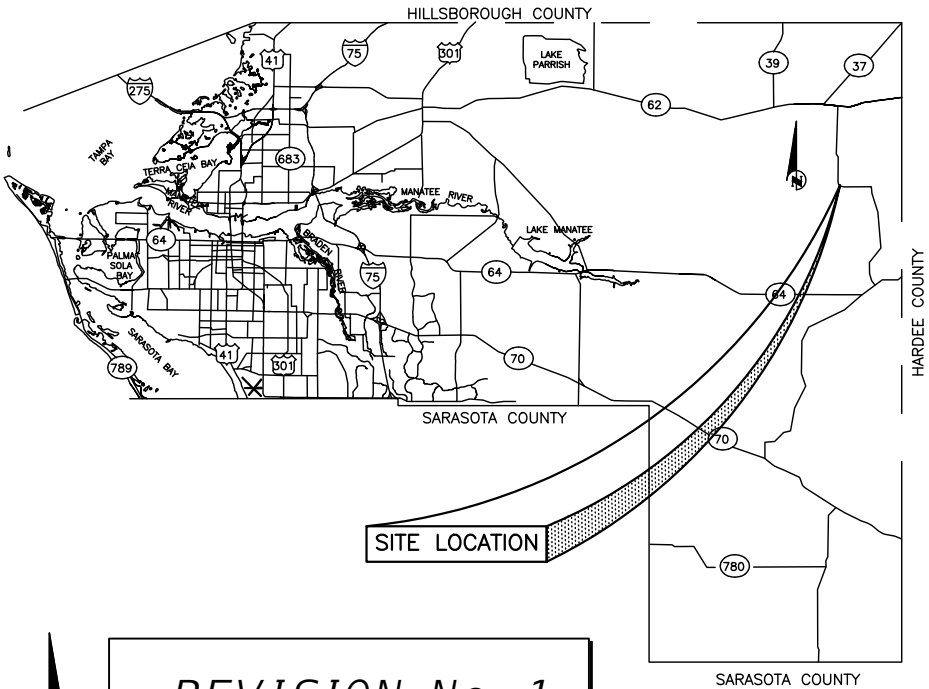
CONTRACT PLAN COMPONENTS

ROADWAY PLANS
STRUCTURE PLANS



MANATEE COUNTY
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS
MANATEE PROJECT ID 6104760
DUETTE ROAD BRIDGE REPLACEMENT



"GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR
ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE
AVAILABLE AT THE FOLLOWING WEBSITE:
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](https://www.flhwy.com/design/standardplans)

APPLICABLE IRS: IR536-001-01, IR521-001-01

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE
STRUCTURES PLANS COMPONENT.

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD
SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING
WEBSITE:
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECSBOOKS"](https://www.flhwy.com/programmanagement/implemented/specsbooks)

OTHER RELATED STANDARDS AND SPECIFICATIONS

- A. MANATEE COUNTY HIGHWAY & TRAFFIC STANDARDS MANUAL
AND STORMWATER MANAGEMENT DESIGN MANUAL (APRIL 2022).
- B. MANATEE COUNTY UTILITIES STANDARDS MANUAL (JUNE 2020).

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS
MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

UTILITY WARNING NOTE

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS
PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE
STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF
BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.



48 HOURS BEFORE DIGGING
"CALL SUNSHINE"
1 - 800 - 432 - 4770

SUMMARY OF REVISIONS

MANATEE PROJECT ID 6104760
Roadway Sheets 1, 2A, 4, 5, 15, 21, 35 (Revised 06/11/2025)

PLANS PREPARED BY:



STANTEC CONSULTING SERVICES, INC.
380 PARK PLACE BOULEVARD
SUITE 300
CLEARWATER, FLORIDA, 33759
(727)531-3505

ROADWAY PLANS

ENGINEER OF RECORD:
JASON Y.YAM, PE
P.E. NO.: 62449

MANATEE COUNTY PROJECT MANAGER:
MARCENEL JOSEPH, P.E.

REVISIONS	
DATE	DESCRIPTION
06/11/2025	ADD SHEET 2A

REVISION No. 1
JUNE 2025

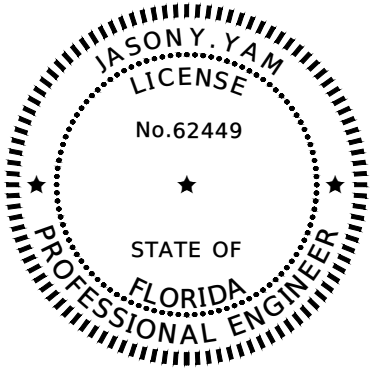
INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
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2	SIGNATURE SHEET
3	DRAINAGE MAP
4	SUMMARY OF PAY ITEMS
5	TYPICAL SECTION
6	SUMMARY OF DRAINAGE STRUCTURES
7	PROJECT LAYOUT
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SHEET
NO.

1

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED.
THE SIGNATURE MUST BE VERIFIED
ON THE ELECTRONIC DOCUMENTS.

JASON Y. YAM, PE
STANTEC CONSULTING SERVICES, INC.
380 PARK PLACE BOULEVARD, SUITE 300
CLEARWATER, FL 33759
PHONE NUMBER: (727) 531-3505

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
2A	SIGNATURE SHEET
4	SUMMARY OF PAY ITEMS
5	TYPICAL SECTION
15	ROADWAY PLAN & PROFILE
21, 35	CROSS SECTIONS

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	ADD SHEET	6-11-25	AWS



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P.E. LICENSE NUMBER 62449
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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6108260

DUETTE ROAD BRIDGE REPLACEMENT

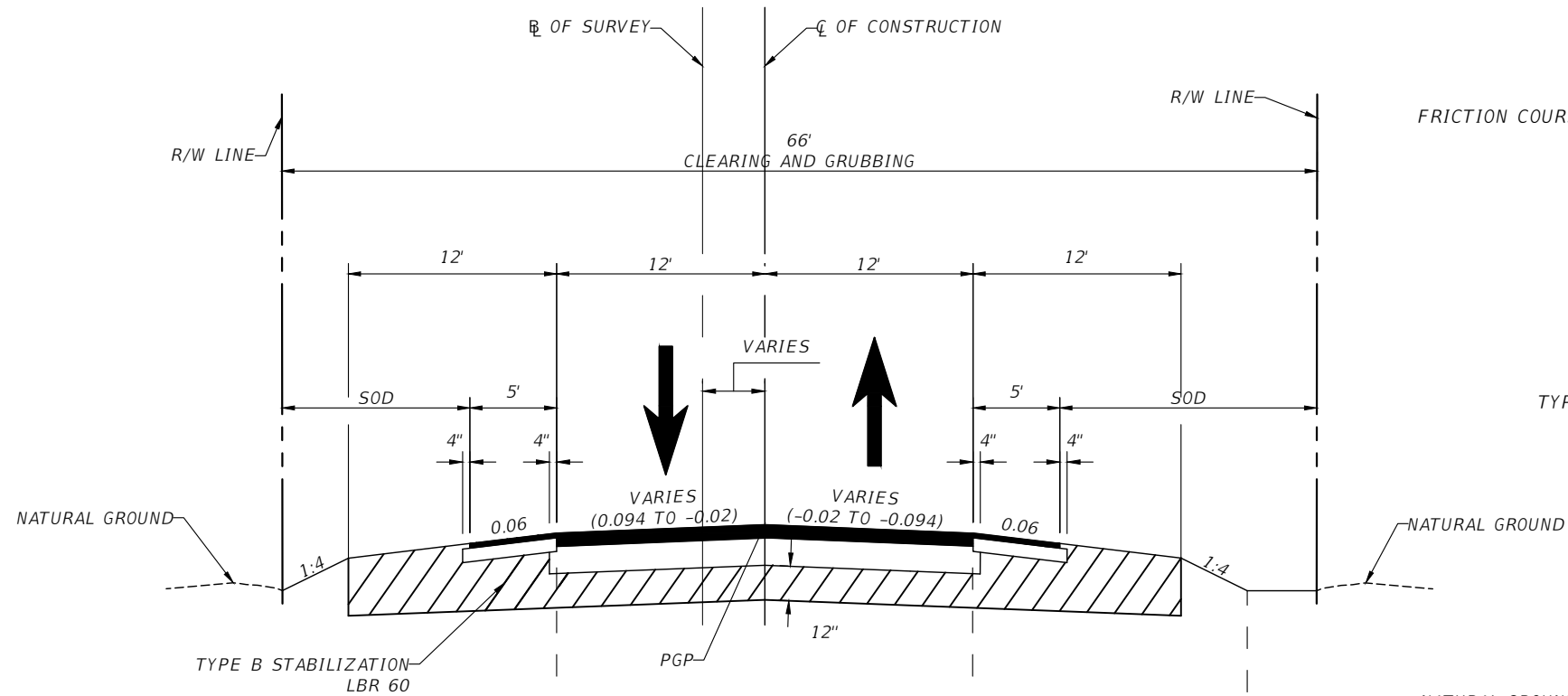
SIGNATURE SHEET

SHEET
NO.

2A

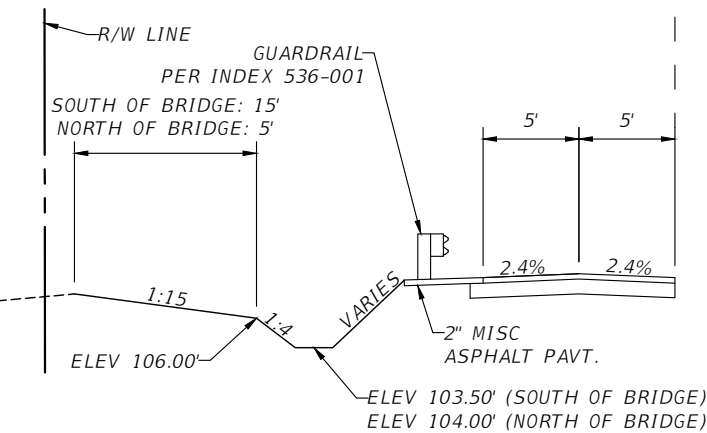
SUMMARY OF ROADWAY PAY ITEMS			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
201020-001	MOBILIZATION (10%) (FDOT 101-1)	LS	1
201500-001	MAINTENCE OF TRAFFIC (FDOT 101-2)	LS	1
102-60	WORK ZONE SIGN	ED	2,400
102-78-1	TEMPORARY RAISED PAVEMENT MARKERS, TYPE D	EA	80
102-120	TEMPORARY TRAFFIC SIGNALS FOR LANE CLOSURES ON TWO-LANE, TWO-WAY ROADWAYS	ED	120
102-2200	SPECIAL DETOUR - TEMPORARY PAVEMENT	SY	2,407
102-2300	SPECIAL DETOUR - TEMPORARY EARTHWORK/BASE	CY	878.0
102-71-13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	1,040
102-74-1	CHANNELIZING DEVICE	ED	18,240
104-10-3	SEDIMENT BARRIER	LF	3,694
104-11	FLOATING TURBIDITY BARRIER	LF	2,184
107-2	MOWING	AC	3.78
110-1-1	CLEARING AND GRUBBING(3.78 AC)	LS	1
120-1	REGULAR EXCAVATION	CY	4,655.7
120-6	EMBANKMENT	CY	11,032.5
160-4	TYPE B STABILIZATION, LBR 60	SY	10,121
285-701	OPTIONAL BASE, BASE GROUP 01	SY	2,542
285-709	OPTIONAL BASE, BASE GROUP 09	SY	4,939
327-70-2	MILLING EXISTING ASPHALT PAVEMENT, 3 1/2" AVG DEPTH	SY	265
334-1-53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22 (2")	TN	543.3
337-7-25	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, (1.5")	TN	631.8
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TN	28.1
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	2
425-2-61	MANHOLE, P-8, <10'	EA	1
425-17-01	INLET, GUTTER, TYPE S,<10'	EA	2
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" S /CD	LF	311
430-984-125	MITERED END SECTION, OPTIONAL ROUND , 18" SD	EA	7
520-6	SHOULDER GUTTER	LF	301
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	546.0
536-1-1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	555
536-8-112	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, APPROACH TL-3	EA	4
536-73	GUARDRAIL REMOVAL	LF	318
536-85-24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	4
550-102-10	FENCING, TYPE B, 0.0-5.0', STANDARD FEATURES	LF	546
570-1-2	PERFORMANCE TURF, SOD	SY	8,532
SUMMARY OF STRUCTURES PAY ITEMS			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
110-3	REMOVAL OF EXISTING STRUCTURES/BRIDGES	LS	1
400-2-4	CONC CLASS II, BRIDGE SUPERSTRUCTURE	CY	193.0
400-2-5	CONCRETE CLASS II, BRIDGE SUBSTRUCTURE	CY	54.9
400-2-10	CONCRETE CLASS II, APPROACH SLABS	CY	131.4
400-7-1	BRIDGE DECK GROOVING	SY	388
400-148	PLAIN NEOPRENE BEARING PADS	CF	6.7
415-1-4	REINFORCING STEEL - BRIDGE SUPERSTRUCTURE	LB	52,719
415-1-5	REINFORCING STEEL- BRIDGE SUBSTRUCTURE	LB	6,857
415-1-9	REINFORCING STEEL- APPROACH SLABS	LB	36,137
455-34-3	PRESTRESSED CONCRETE PILING, 18" SQ	LF	970
455-143-3	TEST PILES-PRESTRESSED CONCRETE,18" SQ	LF	185
458-1-11	BRIDGE DECK EXPANSION JOINT, NEW CONSTRUCTION, F&I POURED JOINT WITH BACKER	LF	101
459-71	PILES, POLYETHYLENE SHEETING	SY	48
521-5-13	CONCRETE TRAFFIC RAILING- BRIDGE, 36" SINGLE-SLOPE	LF	262
548-13	RETAINING WALL SYSTEM,TEMPORARY, EXCLUDING BARRIER	SF	1,125
SUMMARY OF SIGNING AND PAVEMENT MARKING PAY ITEMS			
PAY ITEM NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
700-1-11	SINGLE POST SIGN, F&I, UP TO 12 SF	AS	14
700-1-60	SINGLE POST SIGN, REMOVE	AS	2
706-1-3	RAISED PAVEMENT MARKER,TYPE B	EA	100
710-90	PAINTED PAVEMENT MARKING, FINAL SURFACE	LS	1
710-11-101	PAINTED PAVEMENT MARKING, WHITE, SOLID, 6"	GM	0.541
710-11-201	PAINTED PAVEMENT MARKING, YELLOW, SOLID, 6"	GM	0.313
710-12-125	PAINTED PAVEMENT MARKING, DURABLE, WHITE, STOP LINE	LF	21
711-15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	0.752
711-15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES YELLOW, SOLID, 6"	GM	0.752

REVISIONS				Stantec STANTEC CONSULTING SERVICES, INC.	JASON Y. YAM, P.E. P.E. LICENSE NUMBER 62449 380 PARK PLACE BOULEVARD SUITE 300 CLEARWATER, FLORIDA, 33759 (727)531-3505	Manatee County FLORIDA MANATEE COUNTY PUBLIC WORKS COUNTY PROJECT NO: 6108260	DUETTE ROAD BRIDGE REPLACEMENT	SHEET NO.
NO.	DESCRIPTION	DATE	BY				SUMMARY OF PAY ITEMS	4
1	ADD AND UPDATE QUANTITIES	6-10-25	AW5					



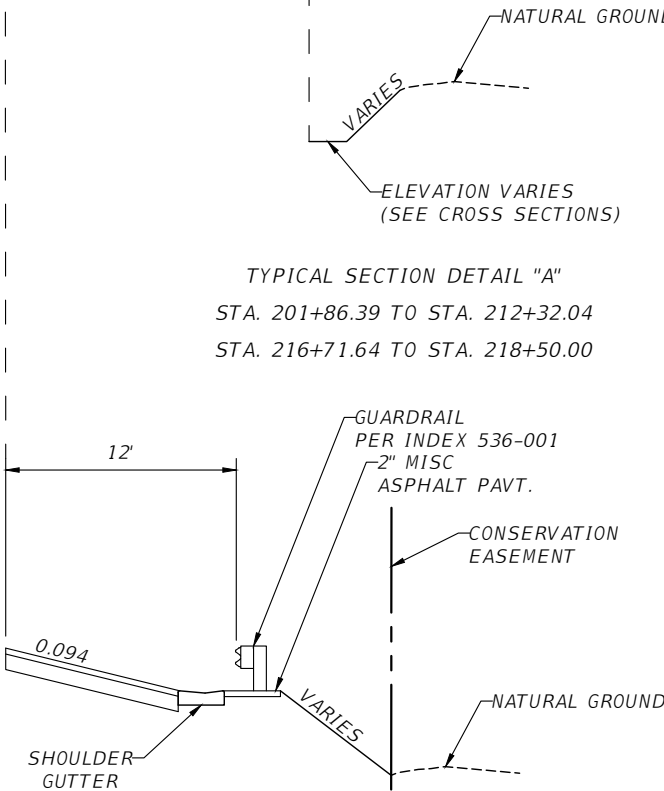
TYPICAL SECTION

STA. 201+86.39 TO STA. 213+82.73
STA. 215+13.26 TO STA. 221+69.07



TYPICAL SECTION DETAIL "C"

STA. 212+32.04 TO STA. 213+82.73
STA. 215+13.26 TO STA. 216+61.66



TYPICAL SECTION DETAIL "B"

STA. 212+32.04 TO STA. 213+82.73
STA. 215+13.26 TO STA. 216+71.64

FRICTION COURSE FC-12.5 (TRAFFIC C)
(1 1/2") PG 76-22 (ARB)

TYPE SP STRUCTURAL COURSE
(TRAFFIC C) (2")

TYPE SP OVERBUILD
(TRAFFIC C) (1.5" AVG.)

CROSS SLOPE CORRECTION OVERBUILD AND RESURFACING DETAIL

N.T.S

STA. 201+86.39 TO STA. 203+12.62
STB. 220+88.63 TO STA. 221+69.07

TRAVEL LANES

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC LEVEL C) (2")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") PG 76-22

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") PG
76-22

TRAFFIC DATA

CURRENT YEAR = 2021 AADT = 1350
K = 9.5 D = 56.1 T = 36.0
DESIGN SPEED = 55 MPH

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	UPDATE CROSS SLOPE CORRECTION DETAIL	6-11-25	AWS



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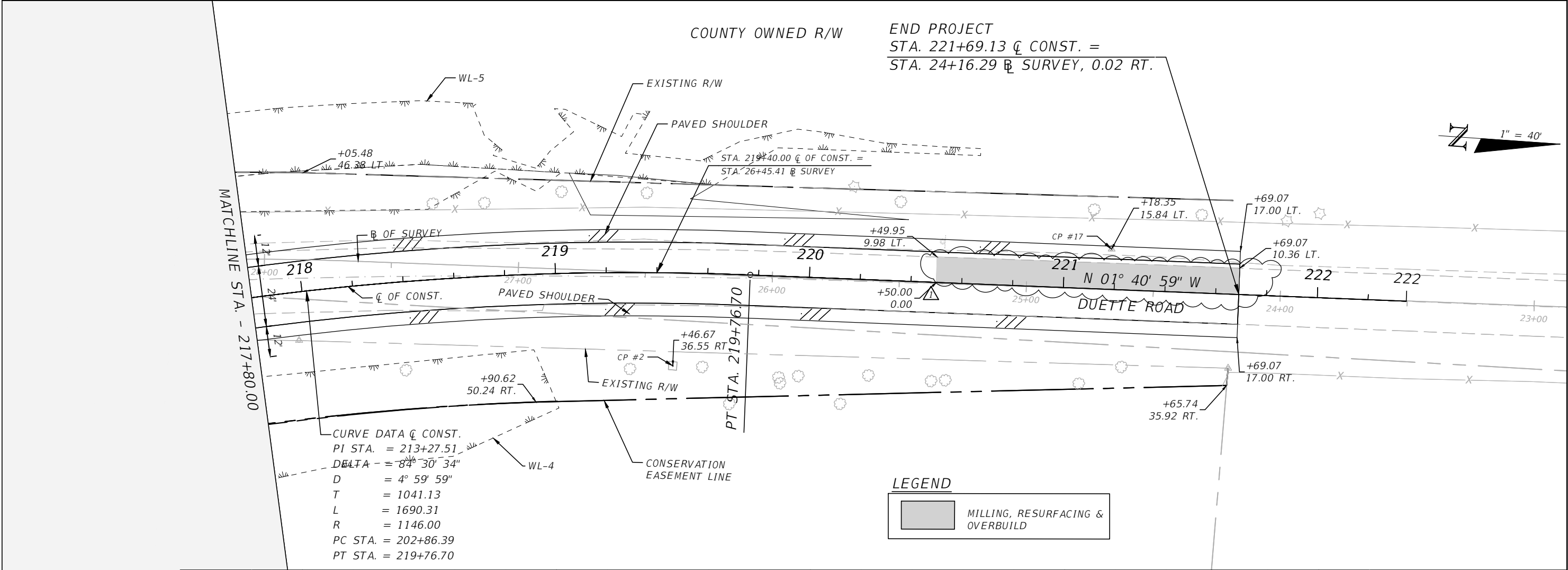
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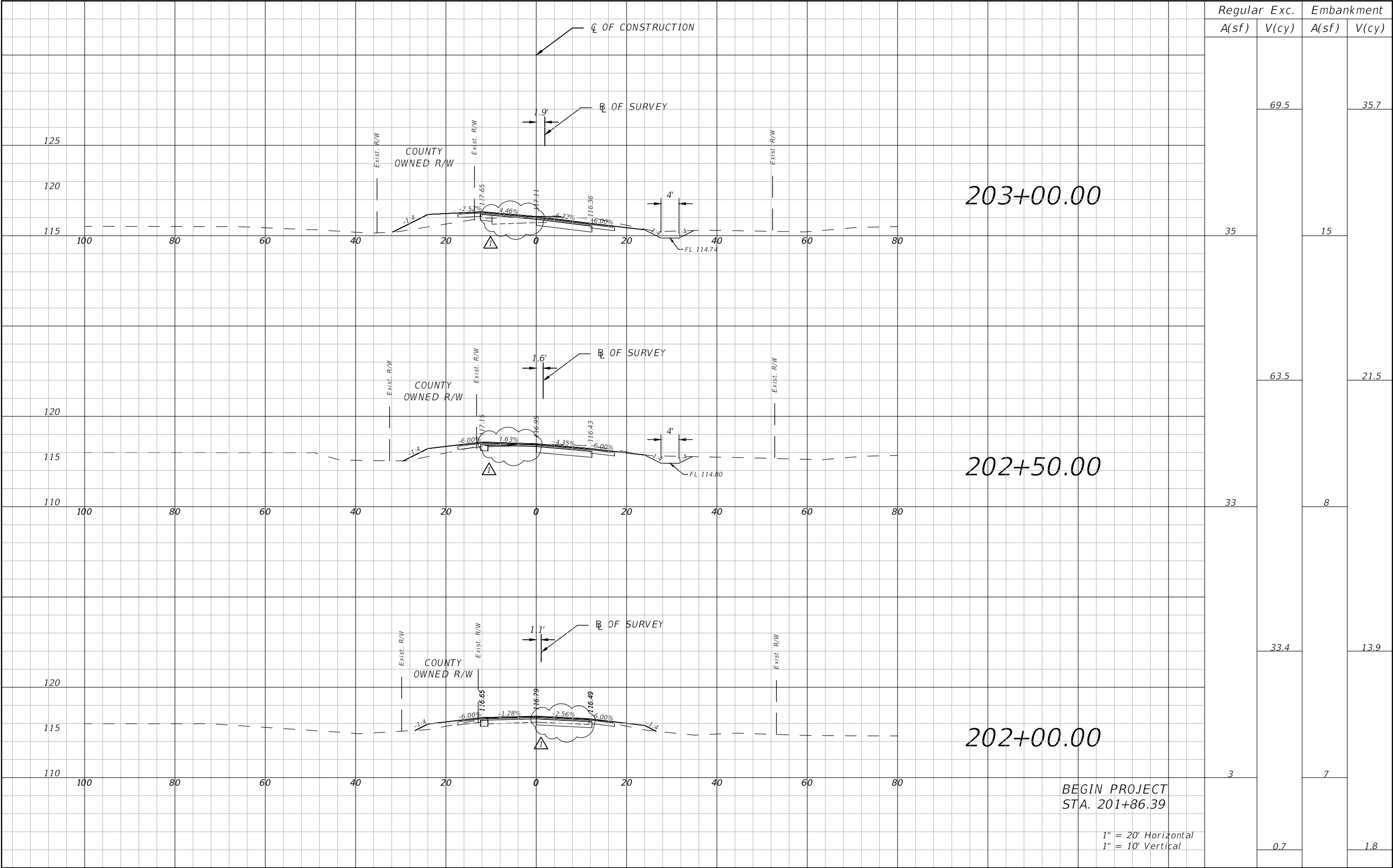
DUETTE ROAD BRIDGE REPLACEMENT

TYPICAL SECTION

SHEET
NO.

5





Regular A(sf)	Exc. V(cy)	Embankment	
		A(sf)	V(cy)
35	69.5	15	35.7
33	63.5	8	21.5
3	33.4	7	13.9
	0.7		1.8

BEGIN PROJECT
STA. 201+86.39

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

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	UPDATE CROSS SECTIONS	6-11-25	AWS



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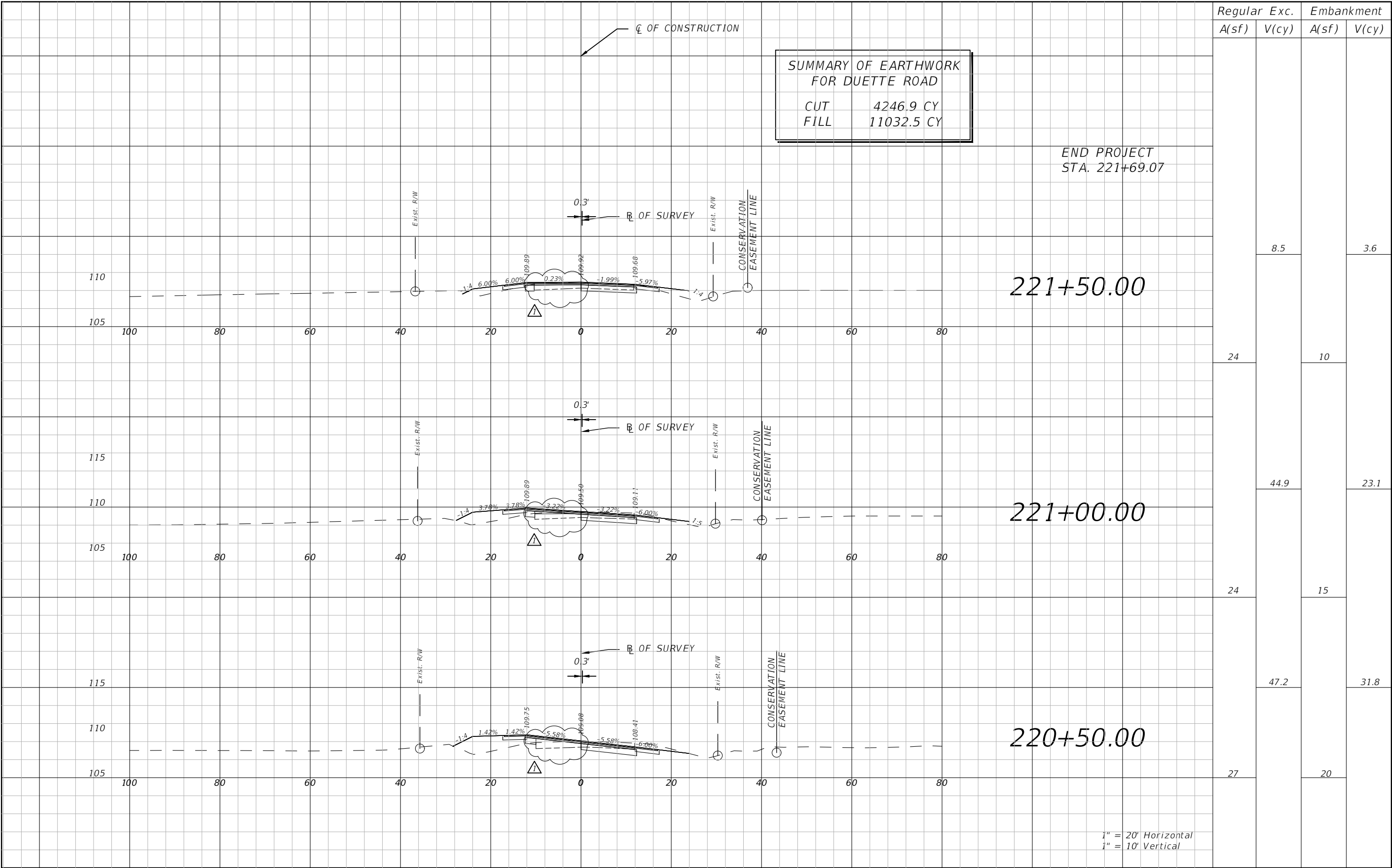


MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT
CROSS SECTION (1)

SHEET
NO.
21

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Regular		Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)	
24	8.5		3.6	10
	44.9		23.1	
	47.2		31.8	
27		20		

REVISIONS			
NO.	DESCRIPTION	DATE	BY
1	UPDATE CROSS SECTIONS	6-11-25	AWS



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MANATEE COUNTY
PUBLIC WORKS
COUNTY PROJECT NO:
6104760

DUETTE ROAD BRIDGE REPLACEMENT

CROSS SECTION (15)

SHEET NO.
35

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