

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS*
STRUCTURAL PLANS
SPECIFIC PURPOSE AND TOPOGRAPHIC SURVEY*
* FOR INFORMATION ONLY

INDEX OF ROADWAY PLANS

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C2 1 of 3 and	SFWMD STANDARD CIVIL DETAILS VEHICLE BARRIER
C2 3 of 3	TWO SPAN GATE
GR-1 thru GR-6	ROADWAY SOIL SURVEY

COUNTY OF PALM BEACH
STATE OF FLORIDA

BOARD OF COUNTY COMMISSIONERS

PROJECT NO. 2019803

CR 880 AT SAM SENTER ROAD

INTERSECTION IMPROVEMENTS AND BRIDGE REPLACEMENT

MARIA G. MARINO
DISTRICT 1

GREGG K. WEISS
DISTRICT 2

MARCI WOODWARD
DISTRICT 4

SARA BAXTER
DISTRICT 6

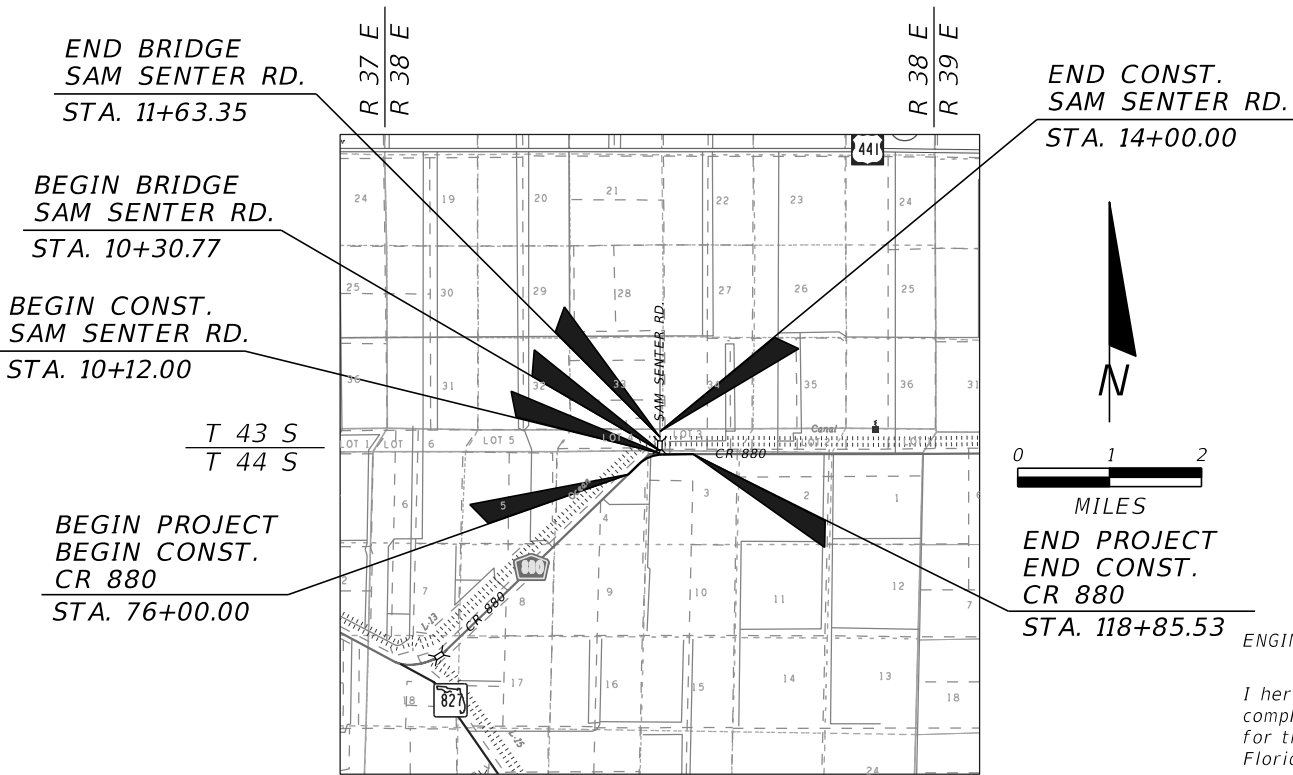


JOEL FLORES
DISTRICT 3

MARIA SACHS
DISTRICT 5

BOBBY POWELL
DISTRICT 7

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY (CR 880)	4,285.53	0.812
ROADWAY (SAM SENTER RD.)	255.42	0.048
BRIDGES	132.58	0.025
NET LENGTH OF PROJECT	4,673.53	0.885
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	4,673.53	0.885



PLANS PREPARED BY:



Stanley Consultants inc.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FL. 33409
(561) 689-7444
CERTIFICATE OF AUTHORIZATION NO. 1978

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

VERTICAL DATUM FOR THIS PROJECT IS
NORTH AMERICAN VERTICAL DATUM (NAVD) 1988

ELEVATIONS HEREON ARE NAVD 1988
TO CONVERT FROM NAVD 1988 TO
NGVD 1929 DATUM, ADD 1.42 FEET

GOVERNING SPECIFICATIONS ARE CONTAINED IN
THE CONTRACT DOCUMENTS FOR THIS PROJECT

ENGINEER OF RECORD: Q. AMIN AHMED, P.E.

I hereby certify that the attached plans and design are in substantial
compliance with the Design Standards and criteria in effect on this date
for the Palm Beach County Engineering Department and the State of
Florida Department of Transportation.

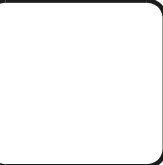
DATE _____

PROFESSIONAL ENGINEER #52564

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P. O. BOX 21229, WEST PALM BEACH, FLORIDA

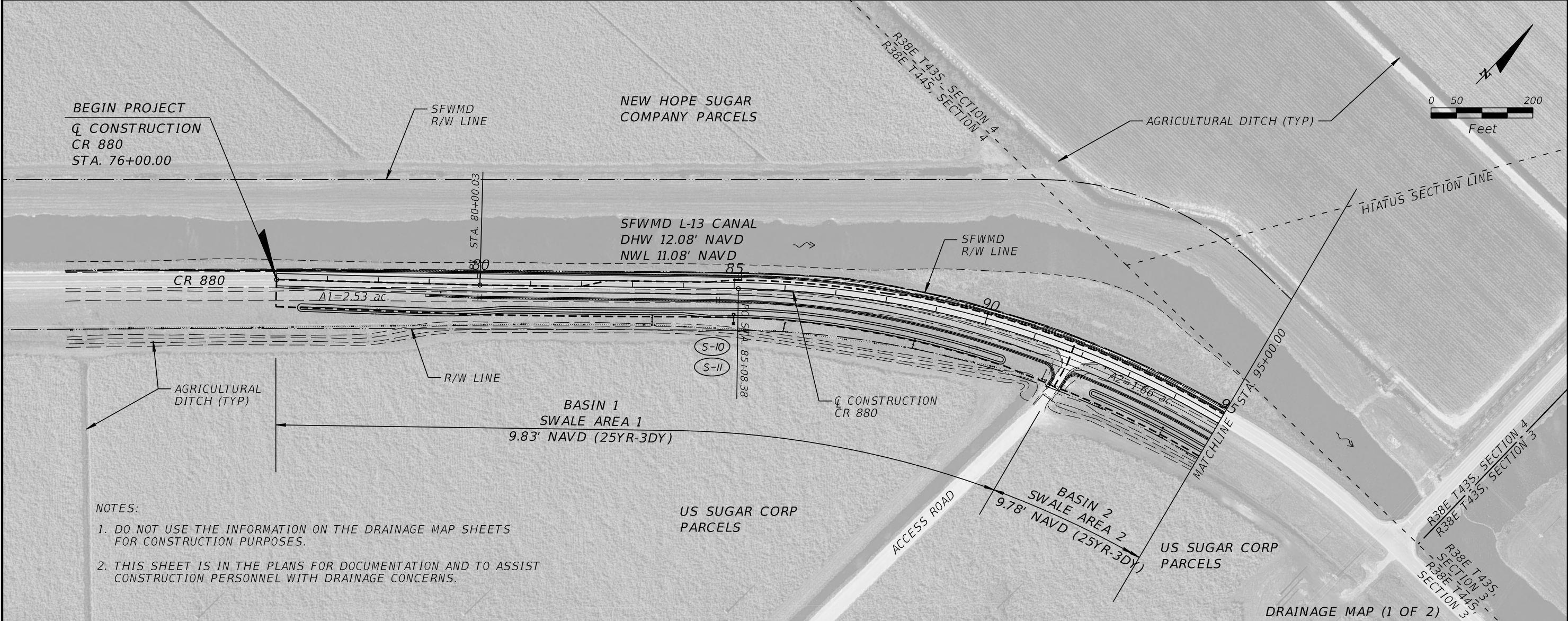
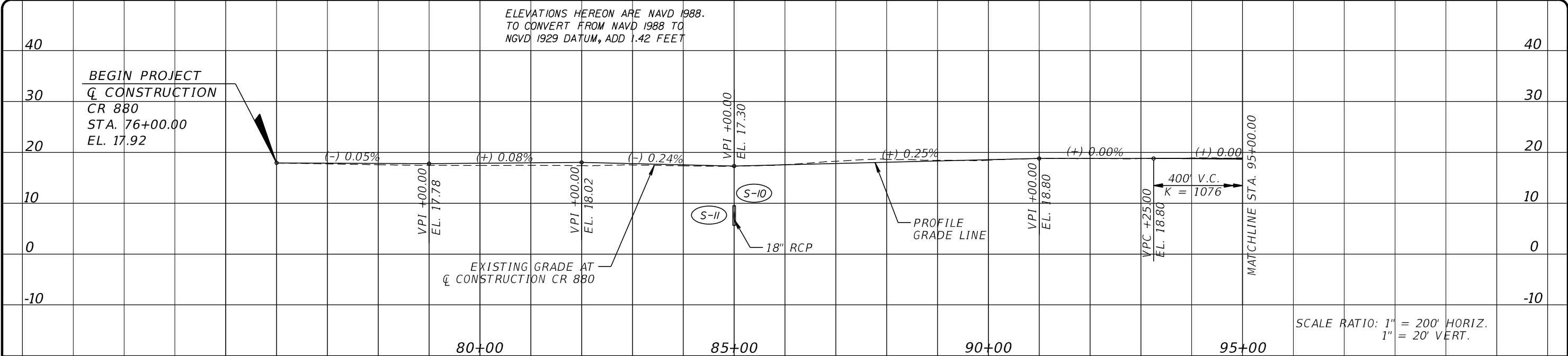


DATE	
BY	
REVISION	
NO.	
SCALE: AS SHOWN	
APPROVED: A.A.	
DRAWN: D.H.	
CHECKED: A.A.	
DATE: 08/22/24	FIELD BOOK NO.



PROJECT:	CR 880 AT SAM SENTER ROAD
DESIGN FILE NAME	ROADWAY KEYSRDD - DGN
DRAWING NO.	

SHEET:	1
OF:	102
PROJECT NO.	2019803



NOTES:

- DO NOT USE THE INFORMATION ON THE DRAINAGE MAP SHEETS FOR CONSTRUCTION PURPOSES.
- THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
O. AMIN AHMED, P.E. NO. 52564

**CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)**

NO.	REVISION	BY	DATE



**PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION**
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=200'
APPROVED: A.A.
DRAWN: R.B.
CHECKED: R.O.
DATE: 08/22/24

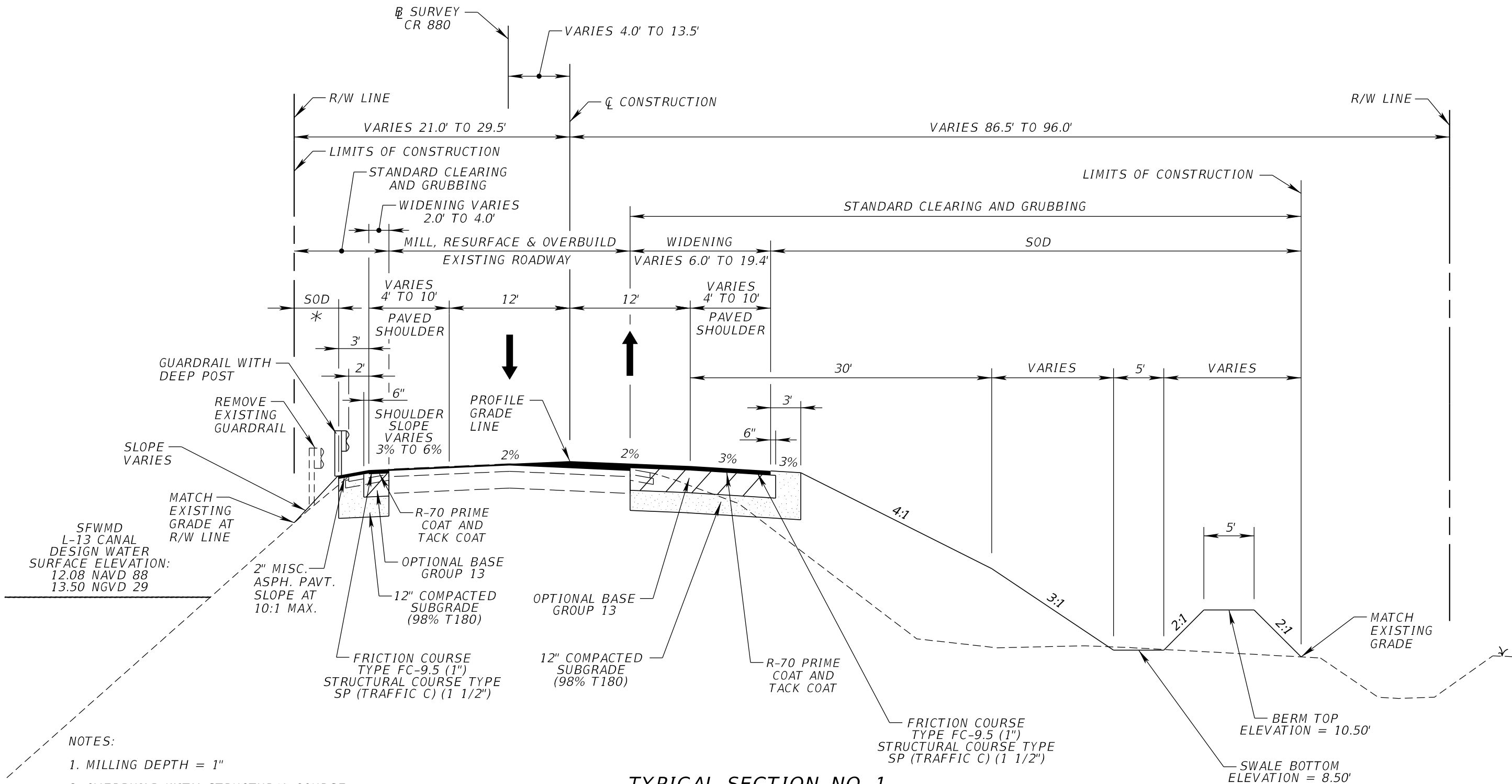
DRAINAGE MAP

DESIGN FILE NAME
DRAINAGE\DRMPR001.DGN

DRAWING NO.

SHEET: 2
OF: 102
PROJECT NO.
2019803

ELEVATIONS HEREON ARE NAVD 1988.
TO CONVERT FROM NAVD 1988 TO
NGVD 1929 DATUM, ADD 1.42 FEET



TYPICAL SECTION NO. 1

CR 880

STA. 76+00.00 TO STA. 80+00.03

Stanley Consultants INC.
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WEST PALM BEACH, FLORIDA 33409
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O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

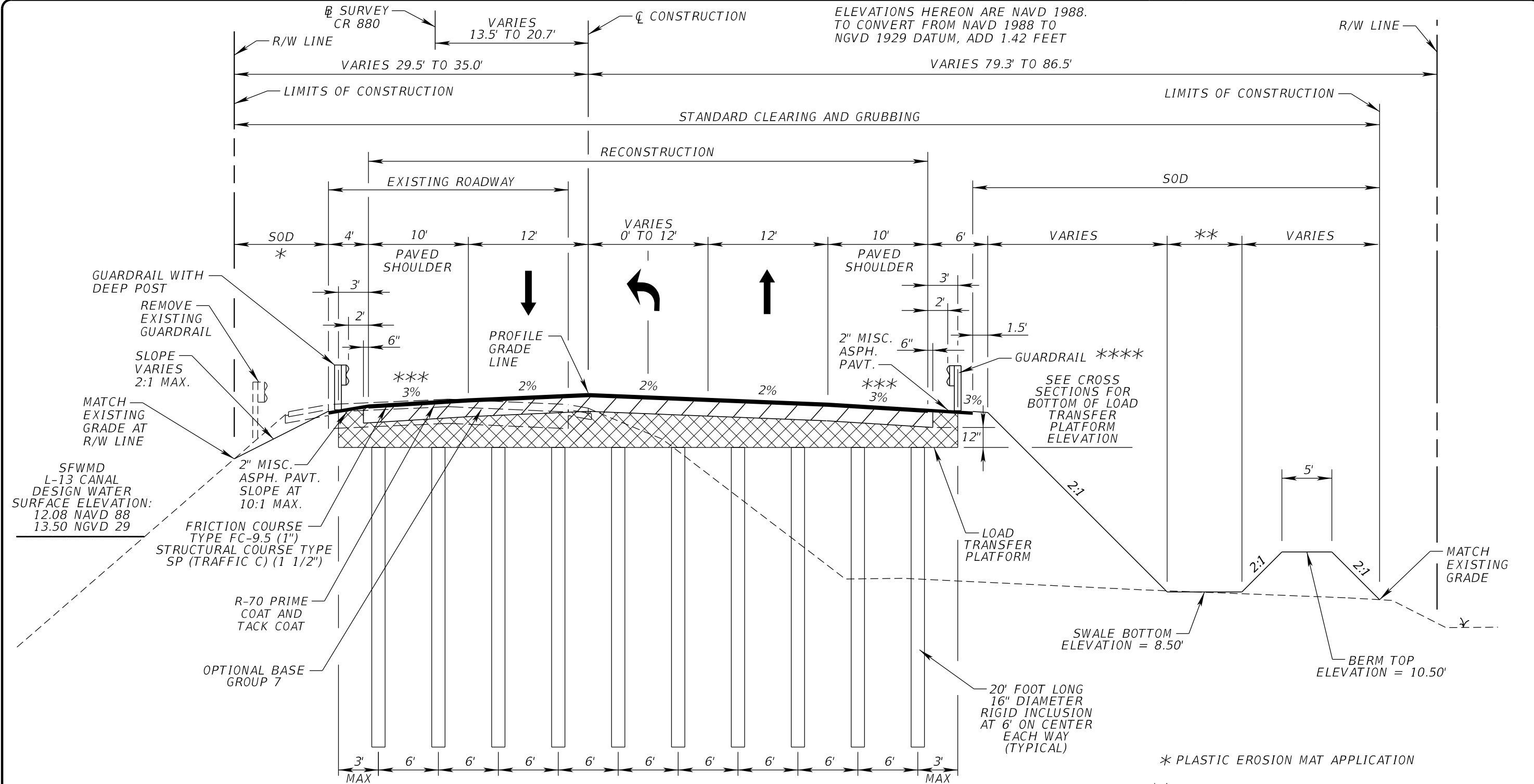
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APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION

DESIGN FILE NAME
ROADWAY\TYP\SRD01.DGN

DRAWING NO.

SHEET: 4
OF: 102
PROJECT NO.
2019803



NOTES:

1. ROADWAY TO BE SUPERELEVATED AT 7.70% THROUGH 1910' RADIUS CURVE
2. RIGID INCLUSION (RI) COLUMN PLACEMENT TO BE 3' OR LESS FROM BEGIN (STA. 80+00.03)/END LIMIT (STA. 109+10.11) TO CENTER OF NEAREST RI COLUMN
3. LOAD TRANSFER PLATFORM TO CONSIST OF A MINIMUM 12" STABILIZED SUBGRADE, TYPE B AND TWO LAYERS OF GEOGRID REINFORCEMENT TYPE R-2 PER FDOT SPECIFICATIONS SECTION 985-5

DESIGN SPEED = 60 MPH

TYPICAL SECTION NO. 2
CR 880
STA. 80+00.03 TO STA. 109+00.11

- * PLASTIC EROSION MAT APPLICATION
- ** SWALE BOTTOM WIDTH:
5 FT FROM STA. 80+00.03 TO STA. 84+00
10 FT FROM STA 84+50 TO STA 90+50
7.5' FROM STA. 92+50 TO STA. 98+60
5' FROM STA. 100+00 TO STA. 109+00.11
- *** FOR SUPERELEVATED ROADWAY CONSTRUCT SHOULDER CROSS SLOPE PER FDOT STANDARD PLANS INDEX NO. 000-510
- **** FACE OF GUARDRAIL TO BE LOCATED AT OUTSIDE EDGE OF PAVED SHOULDER FROM STA. 99+65.11 RT TO STA. 108+97.52 RT

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O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

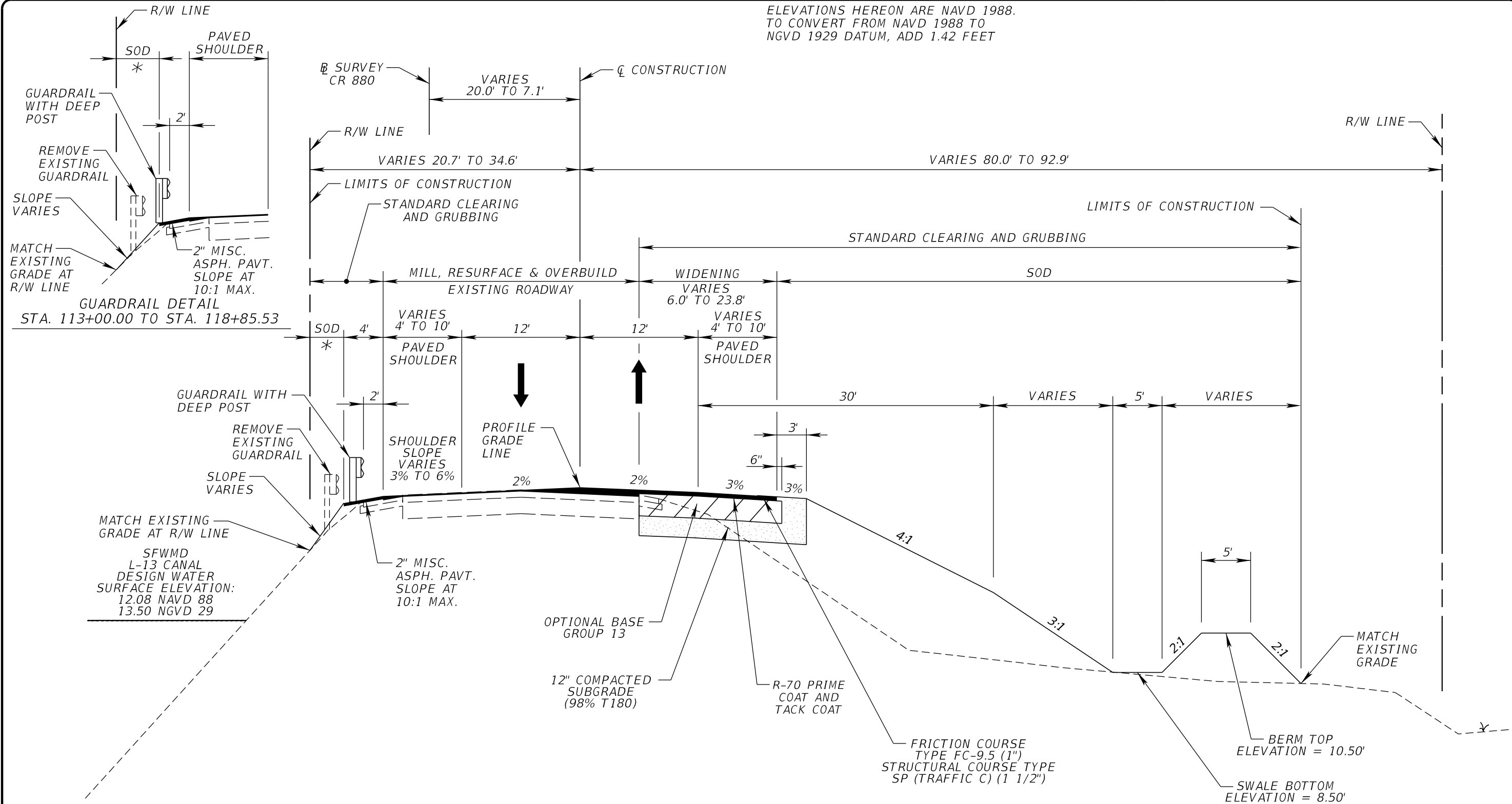
SCALE: 1"=10'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION

DESIGN FILE NAME ROADWAY\TYP\SRD02.DGN	DRAWING NO.
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SHEET: 5
OF: 102
PROJECT NO.
2019803

ELEVATIONS HEREON ARE NAVD 1988.
TO CONVERT FROM NAVD 1988 TO
NGVD 1929 DATUM, ADD 1.42 FEET



- NOTES:
- 1. MILLING DEPTH = 1"
 - 2. OVERBUILD WITH STRUCTURAL COURSE
TYPE SP (TRAFFIC C) (3.50" AVERAGE DEPTH)
 - 3. RESURFACE WITH FRICTION COURSE FC-9.5 (1")

DESIGN SPEED = 60 MPH

TYPICAL SECTION NO. 3
CR 880
STA. 109+00.11 TO STA. 118+85.53

* PLASTIC EROSION MAT APPLICATION

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WEST PALM BEACH, FLORIDA 33409
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O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE

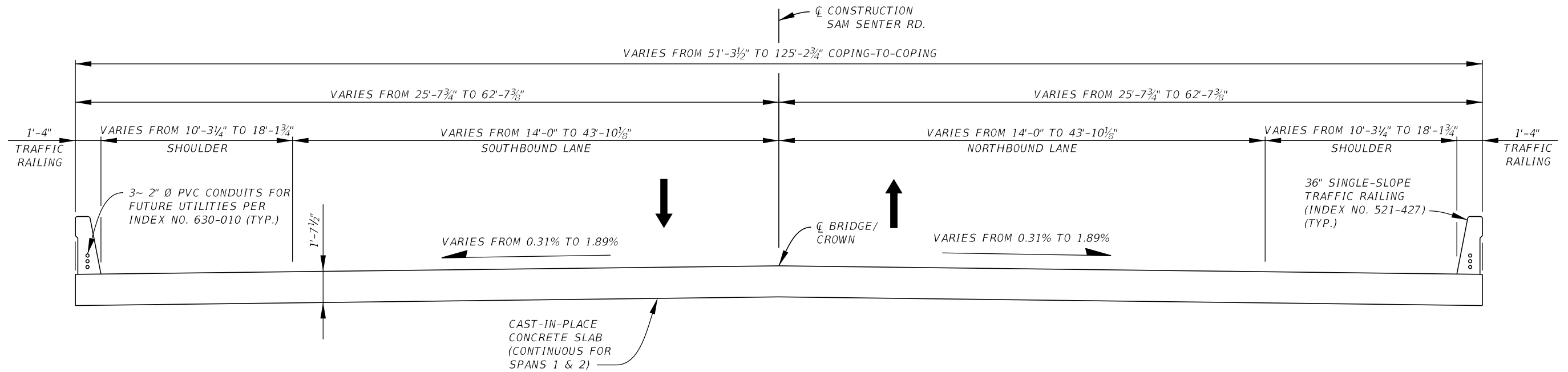


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ROADWAY PRODUCTION
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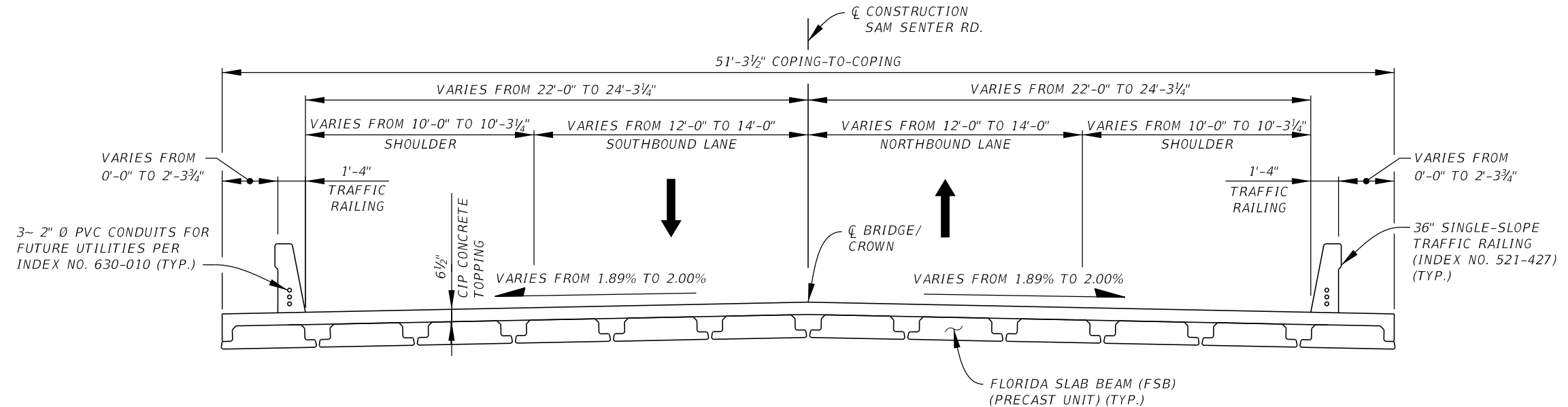
SCALE: 1"=10'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION	
DESIGN FILE NAME ROADWAY\TYP\SRD03.DGN	DRAWING NO.

SHEET: 6
OF: 102
PROJECT NO.
2019803



SPANS 1 AND 2 - TYPICAL SECTION
STA. 10+20.77 TO STA. 10+78.77



SPAN 3 TYPICAL SECTION
STA. 10+78.77 TO STA. 11+15.27

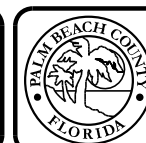
TYPICAL SECTION NO. 4
SAM SENTER ROAD BRIDGE
OVER L-13 CANAL

DESIGN SPEED = 45 MPH

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

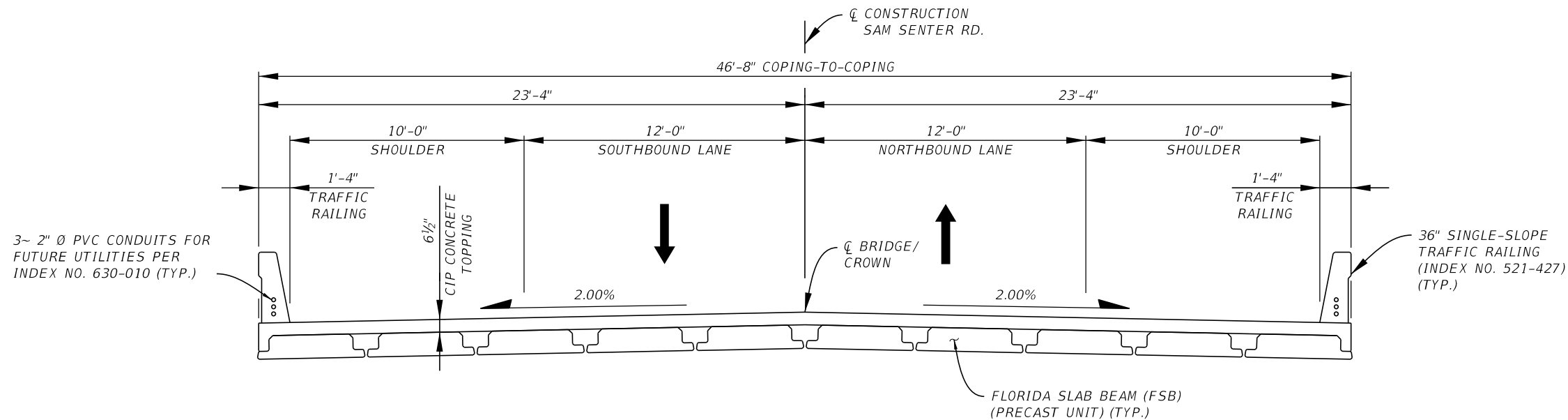
SCALE: N.T.S.
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION

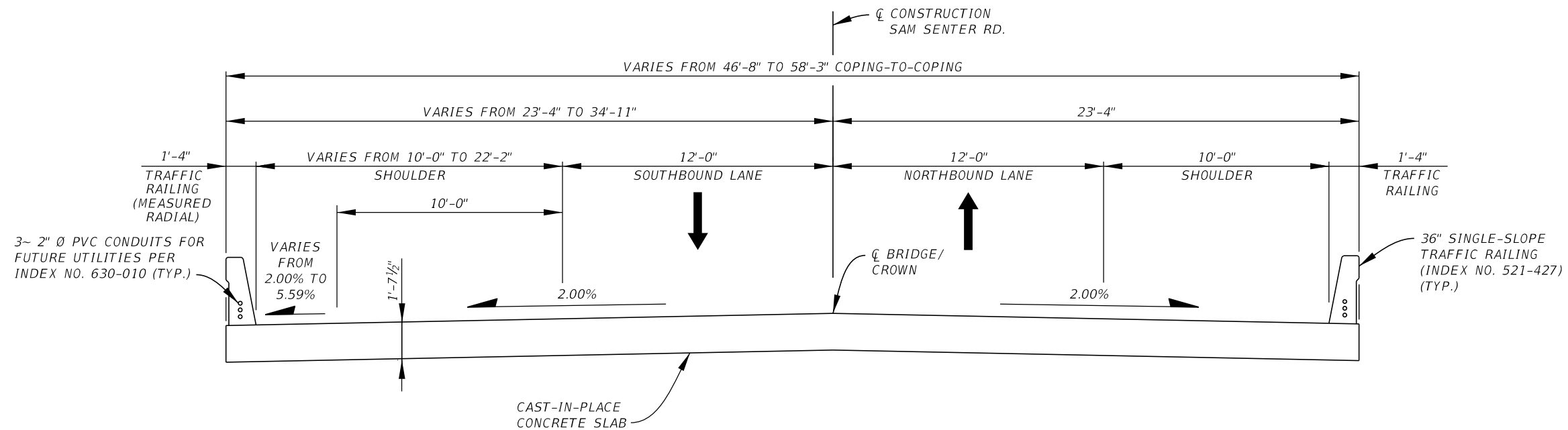
DESIGN FILE NAME
ROADWAY\TYP\SRD04.DGN

DRAWING NO.

SHEET: 7
OF: 102
PROJECT NO.
2019803



SPAN 4 TYPICAL SECTION
STA. 11+15.27 TO STA. 11+39.27



SPAN 5 - TYPICAL SECTION
STA. 11+39.27 TO STA. 11+73.35

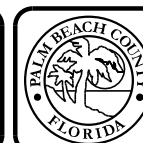
TYPICAL SECTION NO. 5
SAM SENTER ROAD BRIDGE
OVER L-13 CANAL

DESIGN SPEED = 45 MPH

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WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

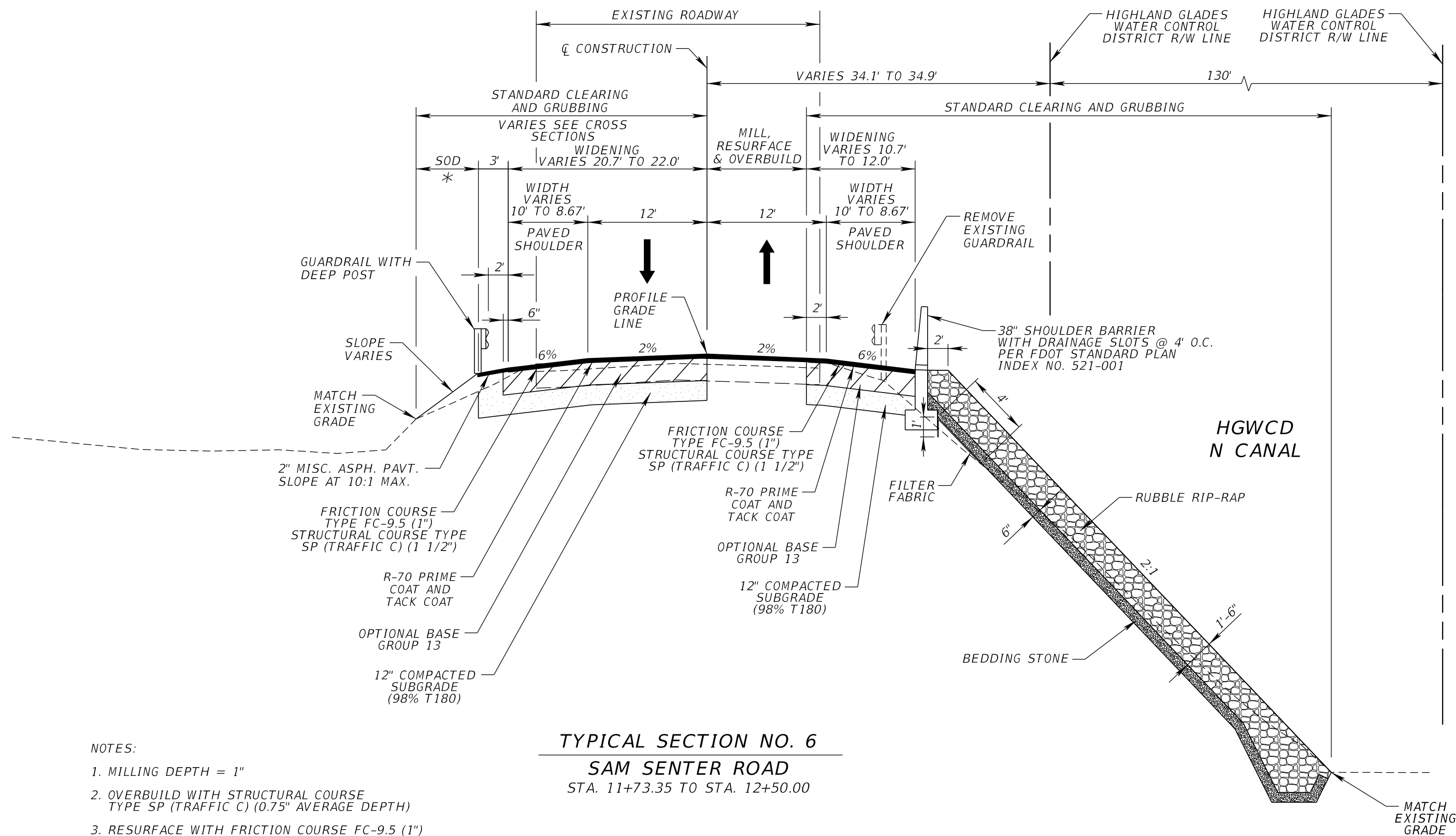
SCALE: N.T.S.
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION

DESIGN FILE NAME
ROADWAY\TYP\SRD05.DGN

DRAWING NO.

SHEET: 8
OF: 102
PROJECT NO.
2019803



NOTES:

1. MILLING DEPTH = 1"
2. OVERBUILD WITH STRUCTURAL COURSE TYPE SP (TRAFFIC C) (0.75" AVERAGE DEPTH)
3. RESURFACE WITH FRICTION COURSE FC-9.5 (1")

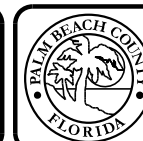
DESIGN SPEED = 45 MPH

* PLASTIC EROSION MAT APPLICATION

Stanley Consultants INC.
 1641 WORTHINGTON ROAD, SUITE 400
 WEST PALM BEACH, FLORIDA 33409
 WWW.STANLEYGROUP.COM
 O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
 P.O. BOX 21229, WEST PALM BEACH, FLORIDA

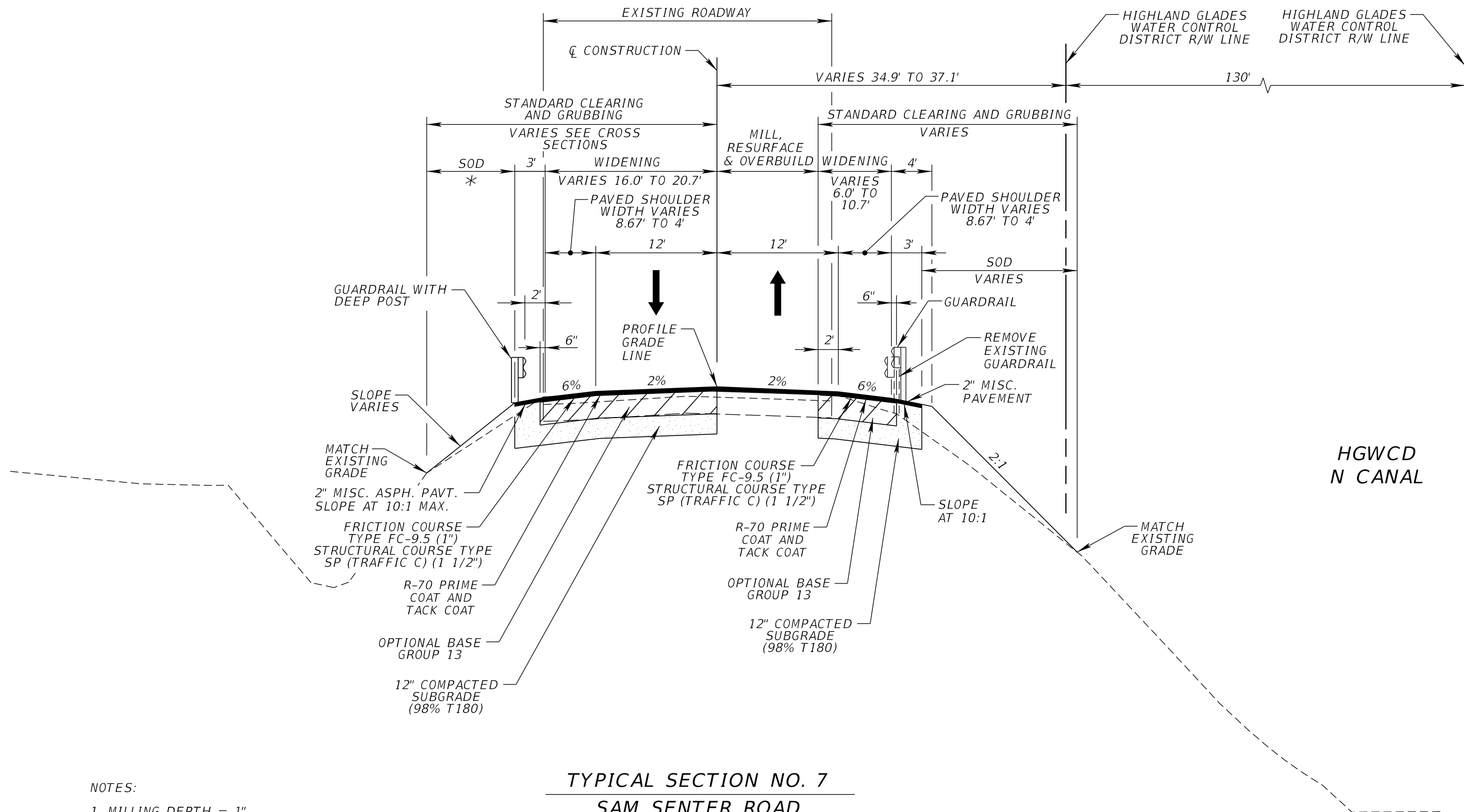
SCALE: 1"=10'
 APPROVED: A.A.
 DRAWN: D.H.
 CHECKED: A.A.
 DATE: 08/22/24

TYPICAL SECTION

DESIGN FILE NAME
 ROADWAY\TYP\SRD06.DGN

DRAWING NO.

SHEET: 9
 OF: 102
 PROJECT NO.
 2019803



NOTES:

1. MILLING DEPTH = 1"
2. OVERBUILD WITH STRUCTURAL COURSE TYPE SP (TRAFFIC C) (0.75" AVERAGE DEPTH)
3. RESURFACE WITH FRICTION COURSE FC-9.5 (1")

DESIGN SPEED = 45 MPH

* PLASTIC EROSION MAT APPLICATION

TYPICAL SECTION NO. 7
SAM SENTER ROAD
STA. 12+50.00 TO STA. 14+00.00

Stanley Consultants INC.
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WEST PALM BEACH, FLORIDA 33409
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O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=10'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

TYPICAL SECTION

DESIGN FILE NAME
ROADWAY\TYP\SRDOT.DGN

DRAWING NO.

SHEET: 10
OF: 102
PROJECT NO.
2019803

SUMMARY OF PAY ITEMS				
ITEM NO.	FDOT PAY ITEM NO.	DESCRIPTION	UNIT	QUANTITY
1	101-1	MOBILIZATION	LS	1.00
2	102-1	MAINTENANCE OF TRAFFIC	LS	1.00
3	104-10-3	SEDIMENT BARRIER (SILT FENCE)	LF	8511
4	110-1-1	CLEARING AND GRUBBING	AC	9.77
5	104-11	FLOATING TURBIDITY BARRIER	LF	890
6	120-1	REGULAR EXCAVATION	CY	14111
7	120-5	CANAL EXCAVATION	CY	5432
8	120-6	EMBANKMENT	CY	39223
9	N/A	CANAL EMBANKMENT	CY	107
10	N/A	COMPACTED SUBGRADE (98% T-180) (12")	SY	3995.9
11	160-4	TYPE B STABILIZATION (LBR 40) (12")	SY	18398.9
12	285-707	OPTIONAL BASE GROUP 7	SY	16887.7
13	285-713	OPTIONAL BASE GROUP 13	SY	3333.1
14	327-70-1	MILL EXISTING ASPHALT PAVEMENT (1")	SY	3893.3
15	334-1-13	SUPERPAVE ASPHALT CONCRETE (TRAFFIC LEVEL C)	TN	1668.2
16	339-1	MISCELLANEOUS ASPHALT PAVEMENT (2" THICK)	TN	287.3
17	334-1-13	STRUCTURAL OVERBUILD (SP) (TRAFFIC C)	TN	326.0
18	337-7-82	ASPH. CONCRETE FRICTION COURSE (1.0") (FC-9.5)	TN	1326.3
19	337-7-82	ASPH. CONCRETE FRICTION COURSE (1.75") (FC-9.5)	TN	20.4
20	400-0-11	CLASS I CONCRETE (GRAVITY WALL)	CY	44.7
21	430-175-118	CONCRETE PIPE CULVERT (18")	LF	36
22	425-1-529	CONTROL STRUCTURES (DITCH BOTTOM INLET TYPE C) (SPECIAL)	EA	1
23	425-1-549	CONTROL STRUCTURES (DITCH BOTTOM INLET TYPE D) (SPECIAL)	EA	1
24	425-1-589	CONTROL STRUCTURES (DITCH BOTTOM INLET TYPE H) (SPECIAL)	EA	1
25	430-982-125	MITERED END SECTION 18" (2:1)	EA	3
26	N/A	RIGID INCLUSIONS	SF	148642
27	145-71	GEOTEXTILE GEOGRID REINFORCEMENT TYPE R-2	SY	33031.6
28	521-72-40	SHOULDER CONCRETE BARRIER	LF	77.0
29	521-8-7	CONCRETE BARRIER WITH JUNCTION SLAB	LF	103.0
30	536-1-1	ROADWAY GUARDRAIL	LF	7462.5
31	536-73	GUARDRAIL REMOVAL	LF	4550
32	536-7-1	SPECIAL GUARDRAIL POST - DEEP POST FOR SLOPE BREAK CONDITION	EA	676
33	536-8-112	GUARDRAIL ATTACHMENT TO BARRIER - APPROACH TRANSITION TO RIGID BARRIER	EA	3
34	536-85-24	GUARDRAIL END TREATMENT - PARALLEL APPROACH TERMINAL	EA	3
35	536-85-20	GUARDRAIL END TREATMENT - TRAILING ANCHORAGE	EA	5
36	N/A	SFWMD 20' WIDTH VEHICLE BARRIER TWO SPAN GATE	EA	1
37	530-3-3	RIP-RAP (RUBBLE)	TN	2030.1
38	530-74	BEDDING STONE (SECT. 530)	TN	729.3
39	570-1-1	SODDING	SY	23926.4
40	571-1-11	PLASTIC EROSION MAT, TURF REINFORCED MAT, TYPE 1	SY	3228.7

PAY ITEM NOTES:

- ITEM NOS. 15, 17, 18 AND 19 INCLUDE THE COSTS FOR PRIMECOAT AND TACKCOAT
- ITEM NO. 20 INCLUDES THE COSTS FOR REINFORCING STEEL
- ITEM NO. 36 INCLUDES THE COSTS FOR OBJECT MARKERS
- ITEM NO. 38 INCLUDES THE COSTS FOR FILTER FABRIC

Stanley Consultants INC.

1641 WORTHINGTON ROAD, SUITE 400

WEST PALM BEACH, FLORIDA 33409

WWW.STANLEYGROUP.COM

O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.

(INTERSECTION IMPROVEMENTS AND

BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE

PALM BEACH COUNTY

ENGINEERING AND PUBLIC WORKS

ROADWAY PRODUCTION

P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=40'

APPROVED: A.A.

DRAWN: D.H.

CHECKED: A.A.

DATE: 08/22/24

SUMMARY OF PAY ITEMS

DESIGN FILE NAME
ROADWAY\SUMMARY OF PAY ITEMS.DGN

DRAWING NO.

SHEET: //

OF: 102

PROJECT NO.
2019803

SUMMARY OF GRAVITY WALL

LOCATION	SIDE	BEGIN TOP OF WALL ELEV.	END TOP OF WALL ELEV.	* BEGIN WALL HEIGHT	* END WALL HEIGHT	LENGTH (LF)	SCHEME	CLASS 1 CONCRETE	
Sta. TO Sta.								CY	
								P	F
CR 880									
98+17.74 TO 98+55.40	LT	17.6'	17.6'	3.5'	3.5'	39.0	3	21.8	
99+83.93 TO 100+31.00	LT	17.0'	16.8'	2.9'	2.7'	48.2	3	21.2	
SAM SENTER ROAD									
11+64.87 TO 11+68.02	LT	15.5'	15.1'	1.4'	1.0'	13.3	3	1.7	
							TOTAL :	44.7	

* WALL HEIGHT IS MEASURED FROM TOP OF WALL TO GROUND SURFACE
PER FDOT INDEX NO. 400-011

SUMMARY OF GEOTEXTILE GEOGRID REINFORCEMENT TYPE R-2

LOCATION	SIDE	AREA (SY)	
Sta. TO Sta.			
CR 880			
AREA OF RIGID INCLUSIONS = 148642 SF		P	F
AREA OF RIGID INCLUSIONS = 148642 SF X 2 LAYERS = 297284 SF			
297284 SF / 9 = 33031.6 SY			
80+00.03 TO 109+00.11	RT & LT	33031.6	
	TOTAL :	33031.6	

SUMMARY OF GUARDRAIL REMOVAL

LOCATION	SIDE	LENGTH (LF)	
Sta. TO Sta.		P	F
CR 880			
76+00.00 TO 98+73.00	LT	2290	
99+60.00 TO 118+50.00	LT	1890	
SAM SENTER RD			
11+29.00 TO 11+52.00	LT	25	
11+29.00 TO 14+00.00	RT	271	
11+44.00 TO 11+68.00	LT	24	
11+80.00 TO 12+30.00	LT	50	
	TOTAL :	4550	

SUMMARY OF PERFORMANCE TURF

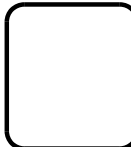
LOCATION	SIDE	PLASTIC EROSION MAT	
Sta. TO Sta.		0571 - 1 - 11	
		SY	
		P	F
CR 880			
76+00.00 TO 118+50.00	LT	3057.9	
SAM SENTER RD			
12+00.00 TO 13+50.00	LT	170.8	
	TOTAL :	3228.7	

SUMMARY OF GUARDRAIL

LOCATION		GUARDRAIL (LF)		SPECIAL POST (EA)		ATTACHMENT TO BARRIER (EA)		END TREATMENT (EA)			
STATION	SIDE	ROADWAY		DEEP POST FOR SLOPE BREAK CONDITION		APPROACH TRANSITION TO RIGID BARRIER		PARALLEL APPROACH TERMINAL		TRAILING ANCHORAGE	
		P	F	P	F	P	F	P	F	P	F
CR 880											
FROM 76+00	LT	400.0		64							
TO 80+00											
FROM 79+03	RT	1275.0						1		1	
TO 91+58											
FROM 80+00	LT	1837.0		291		1					
TO 98+18											
FROM 91+83	RT	775.0								2	
TO 99+25											
FROM 99+39	RT	981.5						1		1	
TO 108+97											
FROM 100+31	LT	869.0		139		1					
TO 109+00											
FROM 109+00	LT	400.0		64							
TO 113+00											
FROM 113+00	LT	550.0		88							
TO 118+50											
FROM											
TO											
FROM											
TO											
FROM											
TO											
FROM											
TO											
FROM											
TO											
FROM											
TO											
FROM											
TO											
FROM											
TO											
SAM SENTER RD											
FROM 11+86	LT	37.5									
TO 12+24											
FROM 12+04	LT	187.5		30				1		1	
TO 13+92											
FROM 12+50	RT	150.0				1					
TO 14+00											
FROM											
TO											
FROM											
TO											
FROM											
TO											
TOTALS:		7462.5		676		3		3		5	

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WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
Q. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD. (INTERSECTION IMPROVEMENTS AND BRIDGE REPLACEMENT)



NO.	REVISION	BY	DATE



**PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA**

SCALE: NONE
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

SUMMARY OF QUANTITIES

DESIGN FILE NAME	DRAWING NO.
ROADWAY\SUMMARY OF QUANTITIES 02.DGN	

MEET: SQ-2

: 102

OBJECT NO.
201980.3

SUMMARY OF SFWMD 20' WIDTH VEHICLE BARRIER TWO SPAN GATE			
LOCATION	SIDE	(EACH)	
STATION		P	F
SAM SENTER ROAD			
11+75.5	LT	1	
TOTAL :		1	

SUMMARY OF RIP-RAP (RUBBLE)							
LOCATION	SIDE	AREA (SF)		VOLUME (CF)		WEIGHT (TONS)	
STATION TO STATION		P	F	P	F	P	F
L-13 CANAL							
20+76.67 TO 23+23.33	RT	12799		19198.5		1024.3	
20+76.67 TO 22+65.13	LT	8841		13261.5		707.5	
SAM SENTER ROAD							
11+64.35 TO 12+49.94	LT	3727		5590.5		298.3	
TOTAL :				38050.5		2030.1	
W(LBS) = VOLs X SG X Ww X Vf VOLs = VOLUME OF STONE (CF) SG = SPECIFIC GRAVITY FOR DITCH LINING = 1.9 Ww = WEIGHT OF WATER = 62 LBS/CF Vf = VOID FACTOR = 0.9 W(LBS) = 38050.5 CF X 1.9 X 62.4 X 0.9 = 4060140.5 LBS 4060140.5 LBS DIVIDED BY 2000 LBS/TON = 2030.1 TONS							

SUMMARY OF BEDDING STONE							
LOCATION	SIDE	AREA (SF)		VOLUME (CF)		WEIGHT (TONS)	
STATION TO STATION		P	F	P	F	P	F
L-13 CANAL							
20+76.67 TO 23+23.33	RT	12799		6399.5		368.0	
20+76.67 TO 22+65.13	LT	8841		4420.5		254.1	
SAM SENTER ROAD							
11+64.35 TO 12+49.94	LT	3727		1863.5		107.2	
TOTAL :				12683.5		729.3	
WEIGHT (LBS) = 12683.5 CF X 115 LBS/CF = 1458602.5 LBS 1458602.5 LBS DIVIDED BY 2000 LBS/TON = 729.3 TONS							

NO.	REVISION	BY	DATE

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
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P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE:	NONE
APPROVED:	A.A.
DRAWN:	D.H.
CHECKED:	A.A.
DATE:	08/22/24

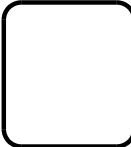
SUMMARY OF QUANTITIES	
DESIGN FILE NAME ROADWAY\SUMMARY OF QUANTITIES 03.DGN	DRAWING NO.

SHEET: SQ-3
OF: 102
PROJECT NO. 2019803

QTY.	STR NO.	STATION	SIDE	DESCRIPTION	BARRELS	CONCRETE PIPE CULVERT (LF)	CONTROL STRUCTURE (EA)			MITERED END SECTION 2:1 (EA)	REMARKS
						18"	TYPE C	TYPE D	TYPE H		
P	S-10	85+00.00	RT	INLET, PIPE	1	12		1			
F											
P	S-11	85+00.00	RT	MES	1					1	
F											
P	S-12	98+50.00	RT	INLET, PIPE	1	12	1				
F											
P	S-13	98+50.00	RT	MES	1					1	
F											
P	S-14	102+00.00	RT	INLET, PIPE	1	12			1		
F											
P	S-15	102+00.00	RT	MES	1					1	
F											
TOTALS:						36	1	1	1	3	

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NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: NONE
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

SUMMARY OF DRAINAGE
STRUCTURES

DESIGN FILE NAME
DRAINAGE\SUMMARY OF DRAIN STRUCTS.DGN

DRAWING NO.

SHEET: 12
OF: 102

PROJECT NO.
2019803

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS, FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND PALM BEACH COUNTY STANDARDS WHERE APPLICABLE.
2. VEHICULAR TRAFFIC SHALL BE MAINTAINED AND PROTECTED AT ALL TIMES. SIGNS, BARRICADES AND LIGHTS SHALL BE PROVIDED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS (MUTCD). THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SEQUENCE AND TRAFFIC CONTROL PLAN TO PALM BEACH COUNTY DEPARTMENT OF ENGINEERING AND PUBLIC WORKS AND SHALL RECEIVE WRITTEN APPROVAL OF THE PLAN FROM THE COUNTY PRIOR TO BEGINNING CONSTRUCTION OF THE PROJECT. CONSTRUCTION OF NEW BRIDGE WILL TEMPORARILY SHUT DOWN SAM SENTER RD, REQUIRING TRAFFIC DETOUR TO AIRPORT RD AND DUDA RD.
3. THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY; THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF OTHER UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS, AS REQUIRED.
4. THE CONTRACTOR SHALL NOTIFY ALL PROPERTY OWNERS 14 DAYS IN ADVANCE OF ANY CONSTRUCTION TO ALLOW PROPERTY OWNERS THE OPPORTUNITY TO RELOCATE ANY PRIVATE PROPERTY (LANDSCAPING, IRRIGATION SYSTEMS, SIGNS, ETC.) THAT ARE IN CONFLICT WITH THE PROPOSED ROADWAY CONSTRUCTION.
5. UTILITIES ARE TO BE ADJUSTED BY OTHERS UNLESS OTHERWISE NOTED.

6. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES A MINIMUM OF 3 WORKING DAYS IN ADVANCE OF ANY CONSTRUCTION INVOLVING THEIR FACILITIES SO THAT THEIR COMPANY REPRESENTATIVE CAN BE PRESENT.

UTILITY AGENCY OWNERS: CONTACT PERSON	UTILITY	PHONE NUMBER
GARTH BEDWARD	AT&T DISTRIBUTION	561-540-9263
STEVE ROSA	COMCAST	561-436-9034
DAVID FUCHS	FP&L DISTRIBUTION	321-214-3814
CRAIG LEDBETTER	FP&L TRANSMISSION	561-803-7942

8. UTILITY LOCATIONS MAY ALSO BE DETERMINED BY CALLING SUNSHINE ONE-CALL AND THE RESPECTIVE UTILITY COMPANY.
9. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES AND UNDERGROUND UTILITIES.
10. PRIOR TO COMMENCEMENT OF ANY EXCAVATION THE CONTRACTOR SHALL COMPLY WITH FLORIDA STATUTE 553.105 FOR THE PROTECTION OF UNDERGROUND GAS PIPELINES.

11. THE CONTRACTOR SHALL NOTIFY THE COUNTY'S REPRESENTATIVE IF SOIL OR SUBSURFACE CONDITIONS UNSUITABLE FOR CONSTRUCTION ARE ENCOUNTERED.

12. BENCHMARK DATUM IS NORTH AMERICAN VERTICAL (NAVD 88).

13. ANY N.G.V.D. OR N.A.V.D. MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHOULD NOTIFY:

NATIONAL GEODETIC INFORMATION SERVICE CENTER
NOAA NATIONAL GEODETIC SURVEY N/CG 17
SSMC 3 STATION 09202
SILVER SPRINGS, MARYLAND 20910
TELEPHONE NO. (301) 713-3242

14. THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY THIS CONSTRUCTION TO A CONDITION EQUAL TO, OR BETTER THAN, THE EXISTING CONDITION AT THE TIME CONSTRUCTION BEGAN.

15. STATIONS AND OFFSET REFER TO THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.

16. ALL EXISTING DRAINAGE STRUCTURES, PIPES AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION ARE TO REMAIN UNLESS OTHERWISE NOTED.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND/OR REMOVAL, STORAGE AND REINSTALLATION OF ALL EXISTING ITEMS NOTED TO REMAIN OR TO BE RELOCATED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, PRIOR TO COMMENCING CONSTRUCTION IF SAID ITEMS ARE DAMAGED, MISSING OR IN A DETERIORATED CONDITION.

18. EXISTING SECTION, QUARTER SECTION CORNERS, PROPERTY CORNERS, PALM BEACH COUNTY SURVEY CONTROL MONUMENTS AND ALL OTHER PERMANENT MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION ARE TO BE REFERENCED PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION BY A PROFESSIONAL SURVEYOR AND MAPPER WITH A MONUMENT BEARING THE FLORIDA LICENSE NUMBER OR CERTIFICATE OF AUTHORIZATION NUMBER OF THE PARTY IN RESPONSIBLE CHARGE. PALM BEACH COUNTY SHALL BE NOTIFIED UPON COMPLETION AND PROVIDED WITH FIELD NOTES, CERTIFIED CORNER RECORDS AND ALL SUPPORTING INFORMATION PRIOR TO FINAL CERTIFICATION OF THE PROJECT.

19. THAT IN THE EVENT OF ANY CONFLICTING DATA, REFER TO THE SURVEY (SHEETS SUR1 THRU SUR13) FOR RESOLUTION.

20. IN AREAS OF PAVEMENT WIDENING ALL EXISTING PAVEMENT EDGES ARE TO BE MECHANICALLY SAWCUT TO A CLEAN, STRAIGHT EDGE.

21. GRADES SHOWN ARE FINISH GRADES, UNLESS OTHERWISE NOTED.

22. ALL VEGETATION, DEBRIS, CONCRETE OR OTHER UNSUITABLE MATERIAL SHALL BE DISPOSED OF OFF-SITE IN AN AREA PROVIDED BY THE CONTRACTOR.

23. CALLOUTS FOR PAVEMENT AND CURBING RADII, STATIONING, OFFSETS AND ELEVATIONS REFER TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

24. THE CONTRACTOR SHALL PROTECT ALL TREES TO REMAIN, AS DIRECTED BY THE PROJECT ENGINEER, DURING ALL ASPECTS OF THE WORK. PROTECTION SHALL INCLUDE THE ERECTION AND MAINTENANCE OF AN APPROVED TREE PROTECTION FENCE. THE FENCE SHALL BE ERECTED AT THE TREE DRIP LINE PRIOR TO BEGINNING CONSTRUCTION AND SHALL REMAIN UNTIL CONSTRUCTION IS COMPLETE. COSTS FOR THIS ARE INCLUDED IN THE COSTS FOR CLEARING AND GRUBBING.

25. INTERSECTING ROADS AND DRIVEWAYS ARE TO BE GRADED AS DIRECTED BY THE ENGINEER, UNLESS OTHERWISE NOTED.

26. THE CONTRACTOR SHALL ACTIVELY COORDINATE THE CROP SPRAYING ACTIVITIES PERFORMED BY THE FARMERS FOR THE DURATION OF THE CONSTRUCTION PROJECT. THE CROP SPRAYING POINT OF CONTACT IS: ANTONIO DE CORRAL, SR. MANAGING HYDRAULIC ENGINEERING, FLORIDA CRYSTALS CORPORATION., SR 880 & ATLANTIC SUGAR MILL RD, BELLE GLADE, FL 33430.

ABBREVIATIONS

ac or AC. = ACRE
ASPH. = ASPHALT
B= BASELINE
B/B = BOTTOM OF BANK
CATV = CABLE TELEVISION
CL = CENTERLINE
CMP = CORRUGATED METAL PIPE
CONST. = CONSTRUCT
CR = COUNTY ROAD
DHW = DESIGN HIGH WATER
E = EAST
EL. = ELEVATION
EOP = EDGE OF PAVEMENT
EXIST. = EXISTING
FC = FRICTION COURSE
FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION
FL = FLOW LINE
FT. = FOOT
HGWCD = HIGHLAND GLADES WATER CONTROL DISTRICT
KV = KILOVOLTS
LT = LEFT
MAX. = MAXIMUM
MISC. = MISCELLANEOUS
N = NORTH
NAVD 88 = NORTH AMERICAN VERTICAL DATUM OF 1988
NGVD 29 = NATIONAL GEODETIC VERTICAL DATUM OF 1929
NO. = NUMBER
NWL = NORMAL WATER LEVEL
OE = OVERHEAD ELECTRIC
OH = OVERHEAD
ORB = OFFICIAL RECORDS BOOK
PAVT. =PAVEMENT
PC = POINT OF CURVATURE
PG. = PAGE
PGL = PROFILE GRADE LINE
PI = POINT OF INTERSECTION
PT = POINT ON TANGENCY
R = RADIUS
RCP = REINFORCED CONCRETE PIPE
RD. = ROAD
RGE. = RANGE
RPB = RECORD PLAT BOOK
RT = RIGHT
R/W = RIGHT OF WAY
S/B = SLOPE BREAK
SEC. = SECTION
SFWMD = SOUTH FLORIDA WATER MANAGEMENT DISTRICT
SP = SUPERPAVE
STA. = STATION
T/B = TOP OF BANK
TEL = TELEPHONE
TWNP. = TOWNSHIP
U.S. = UNITED STATES
VPI = VERTICAL POINT OF INTERSECTION
W/ = WITH
W/L = WATER SURFACE LINE
YR = YEAR

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BRIDGE REPLACEMENT)



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: NONE
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

GENERAL NOTES

DESIGN FILE NAME
ROADWAY\GNTRD01.DGN

DRAWING NO.

SHEET: 13
OF: 102

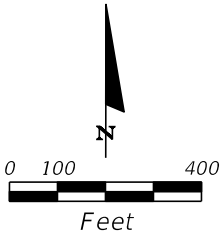
PROJECT NO.
2019803

Q CONSTRUCTION SFWMD L-13 CANAL DATA TABLE

Q STATION	NORTHING	EASTING	DESCRIPTION	Q SURVEY STATION/OFFSET
18+00.00	852567.550	806444.004	BEGIN Q CONSTRUCTION	195+55.80/119.69' LT
26+00.00	852568.854	807244.003	END Q CONSTRUCTION	203+34.12/76.92' LT

CR 880 Q SURVEY DATA TABLE

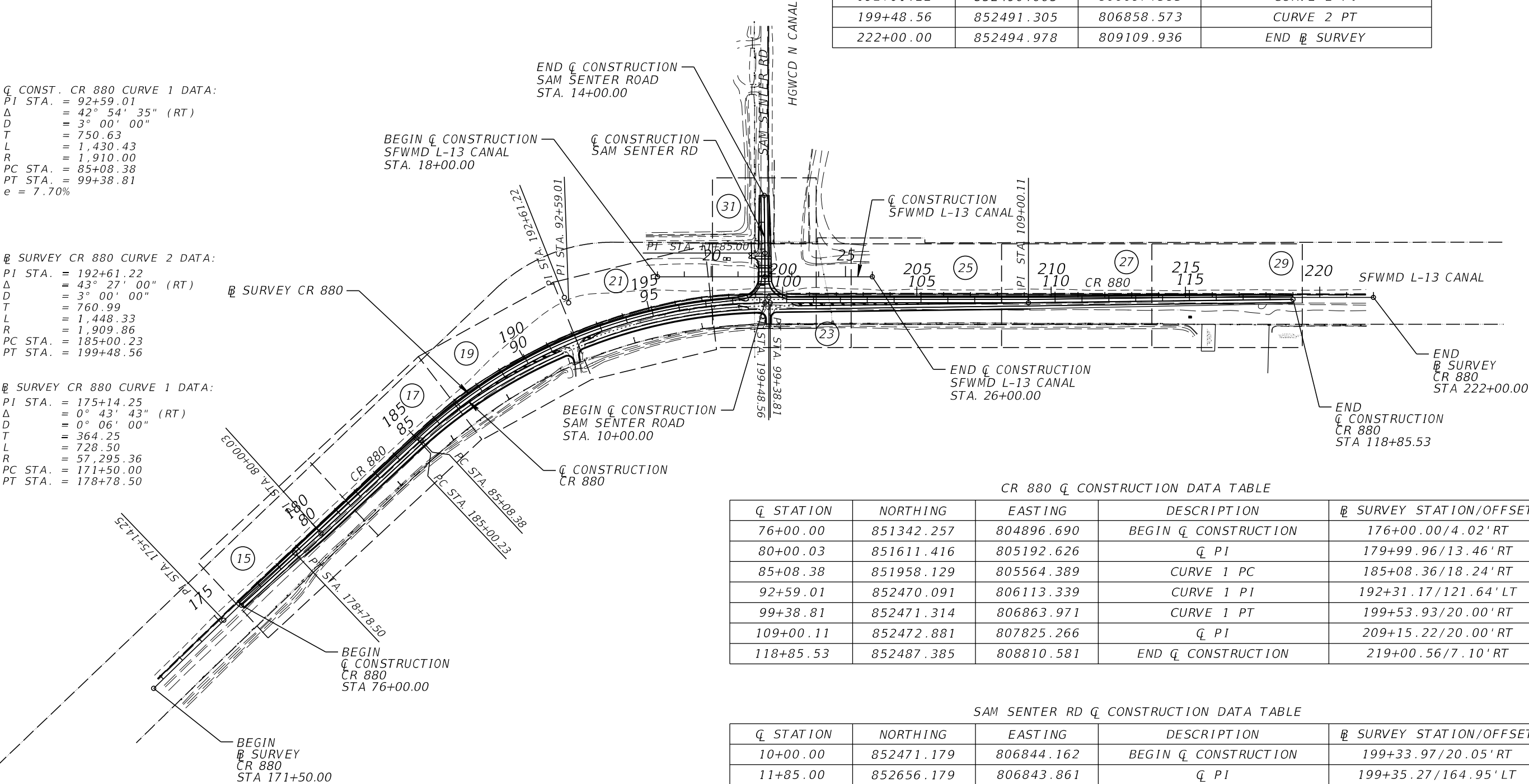
Q STATION	NORTHING	EASTING	DESCRIPTION
171+50.00	851032.346	804570.538	BEGIN Q SURVEY CURVE 1 PC
175+14.25	851286.567	804831.282	Q CURVE 1 PI
178+78.50	851537.539	805095.372	CURVE 1 PT
185+00.23	851965.816	805545.976	CURVE 2 PC
192+61.22	852490.065	806097.583	CURVE 2 PI
199+48.56	852491.305	806858.573	CURVE 2 PT
222+00.00	852494.978	809109.936	END Q SURVEY



Q CONST. CR 880 CURVE 1 DATA:
PI STA. = 92+59.01
Δ = 42° 54' 35" (RT)
D = 3° 00' 00"
T = 750.63
L = 1,430.43
R = 1,910.00
PC STA. = 85+08.38
PT STA. = 99+38.81
e = 7.70%

Q SURVEY CR 880 CURVE 2 DATA:
PI STA. = 192+61.22
Δ = 43° 27' 00" (RT)
D = 3° 00' 00"
T = 760.99
L = 1,448.33
R = 1,909.86
PC STA. = 185+00.23
PT STA. = 199+48.56

Q SURVEY CR 880 CURVE 1 DATA:
PI STA. = 175+14.25
Δ = 0° 43' 43" (RT)
D = 0° 06' 00"
T = 364.25
L = 728.50
R = 57,295.36
PC STA. = 171+50.00
PT STA. = 178+78.50



CR 880 Q CONSTRUCTION DATA TABLE

Q STATION	NORTHING	EASTING	DESCRIPTION	Q SURVEY STATION/OFFSET
76+00.00	851342.257	804896.690	BEGIN Q CONSTRUCTION	176+00.00/4.02' RT
80+00.03	851611.416	805192.626	Q PI	179+99.96/13.46' RT
85+08.38	851958.129	805564.389	CURVE 1 PC	185+08.36/18.24' RT
92+59.01	852470.091	806113.339	CURVE 1 PI	192+31.17/121.64' LT
99+38.81	852471.314	806863.971	CURVE 1 PT	199+53.93/20.00' RT
109+00.11	852472.881	807825.266	Q PI	209+15.22/20.00' RT
118+85.53	852487.385	808810.581	END Q CONSTRUCTION	219+00.56/7.10' RT

SAM SENTER RD Q CONSTRUCTION DATA TABLE

Q STATION	NORTHING	EASTING	DESCRIPTION	Q SURVEY STATION/OFFSET
10+00.00	852471.179	806844.162	BEGIN Q CONSTRUCTION	199+33.97/20.05' RT
11+85.00	852656.179	806843.861	Q PI	199+35.27/164.95' LT
14+00.00	852871.160	806840.834	END Q CONSTRUCTION	199+34.28/379.95' LT

LEGEND

(XX) ROADWAY PLAN SHEET NUMBER

Stanley Consultants INC.
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O. AMIN AHMED, P.E. NO. 52564

CR 880 AND SAM SENTER RD.
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NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=400'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

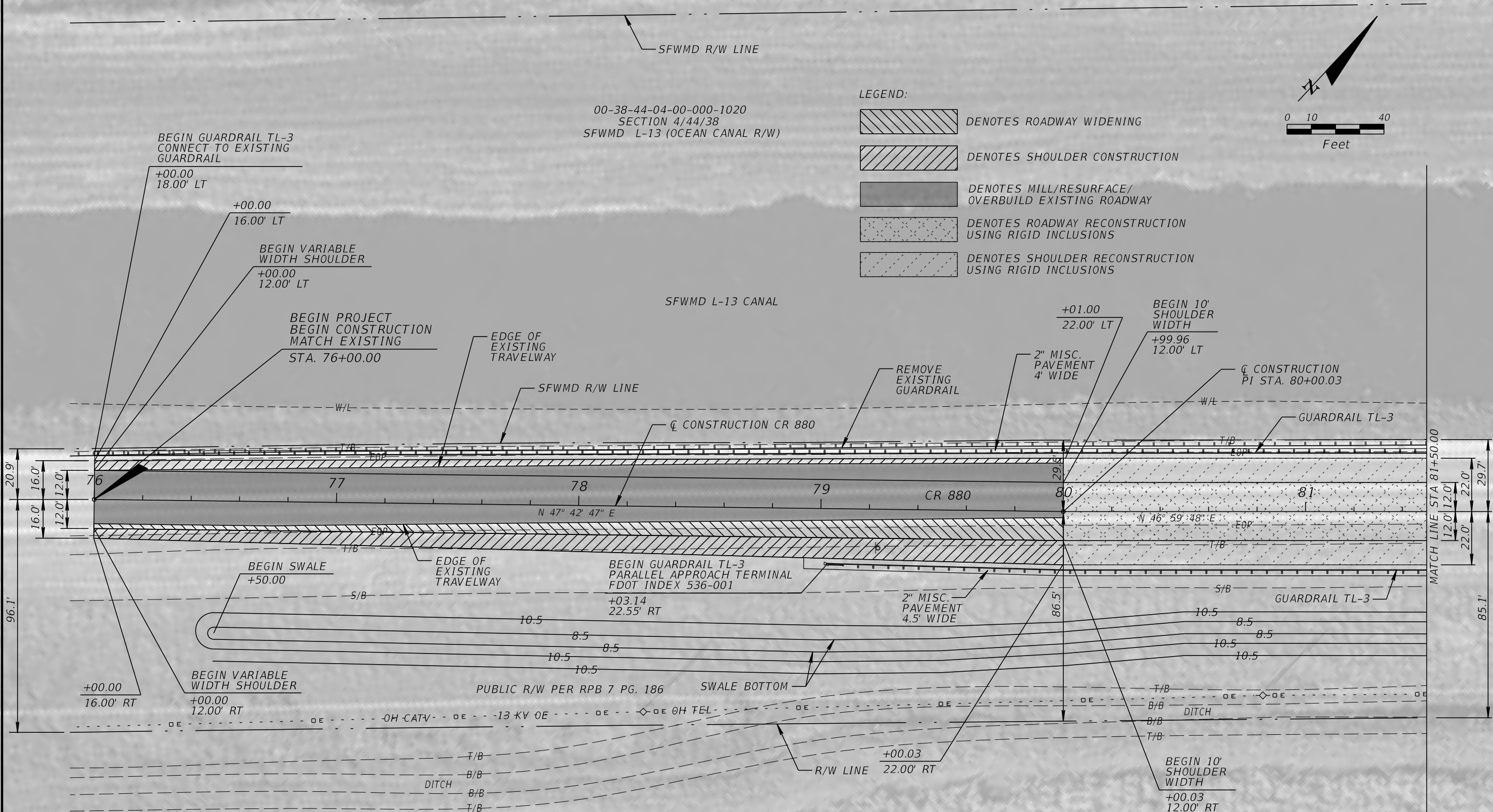
PROJECT LAYOUT

DESIGN FILE NAME
ROADWAY\PROJECT\LAYOUT.DGN

DRAWING NO.

SHEET: 14
OF: 102

PROJECT NO.
2019803



00-38-44-04-00-000-1020
SECTION 4/44/38
SFWMD L-13 (OCEAN CANAL R/W)

LEGEND:

- DENOTES ROADWAY WIDENING
- DENOTES SHOULDER CONSTRUCTION
- DENOTES MILL/RESURFACE/OVERBUILD EXISTING ROADWAY
- DENOTES ROADWAY RECONSTRUCTION USING RIGID INCLUSIONS
- DENOTES SHOULDER RECONSTRUCTION USING RIGID INCLUSIONS



U.S. SUGAR CORPORATION
PARCEL B (ORB 27063 PG.1015)
00-38-44-04-00-000-5000

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**PALM BEACH COUNTY
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ROADWAY PRODUCTION**
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

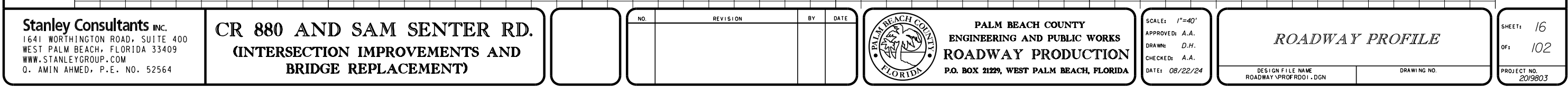
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APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

ROADWAY PLAN

DESIGN FILE NAME
ROADWAY\PLANRDO1.DGN

DRAWING NO.

SHEET: 15
OF: 102
PROJECT NO.
2019803

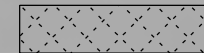


00-38-44-04-00-000-1020
SECTION 4/44/38
SFWMD L-13 (OCEAN CANAL R/W)

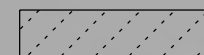
CR 880 CURVE 1 DATA:
PI STA. = 92+59.01
 Δ = 42° 54' 35" (RT)
D = 3° 00' 00"
T = 750.63
L = 1,430.43
R = 1,910.00
PC STA. = 85+08.38
PT STA. = 99+38.81
e = 7.70%



LEGEND:



DENOTES ROADWAY RECONSTRUCTION
USING RIGID INCLUSIONS

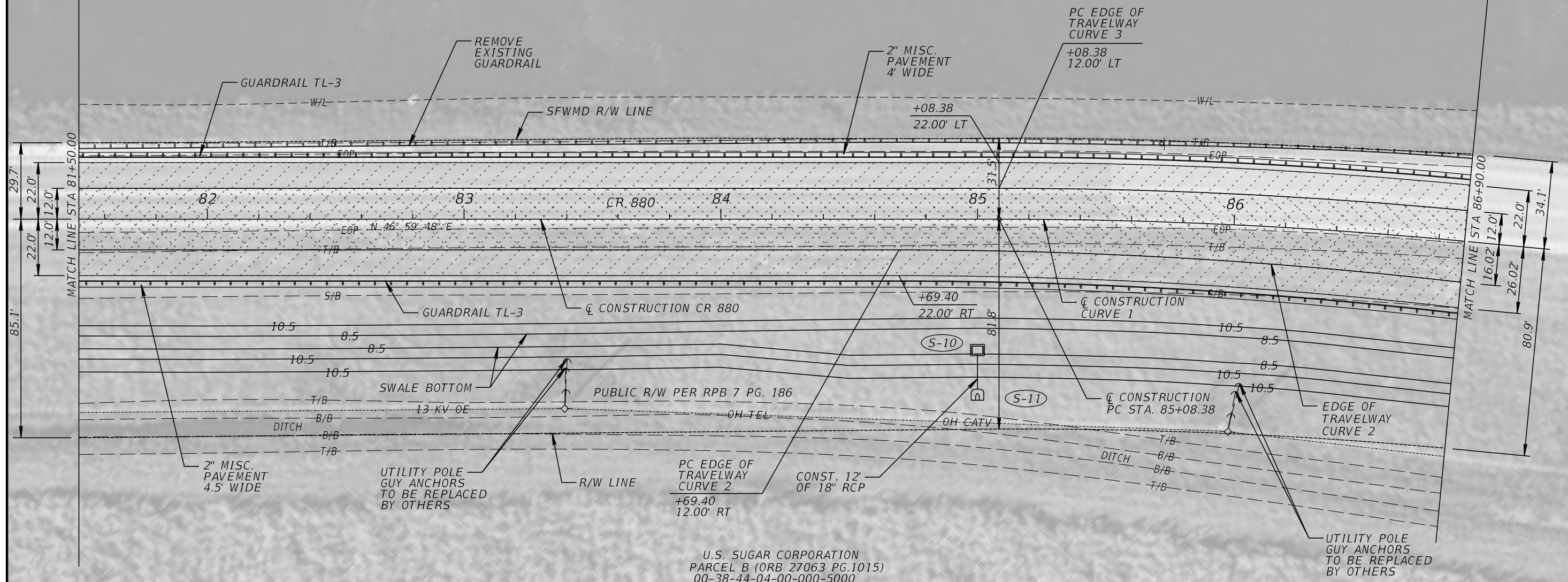


DENOTES SHOULDER RECONSTRUCTION
USING RIGID INCLUSIONS

EDGE OF TRAVELWAY
CURVE 2 DATA:

PI STA. = 87+96.08, 9.74' LT
 Δ = 19° 26' 00" (RT)
D = 3° 00' 00"
T = 327.05
L = 647.82
R = 1,910.00
PC STA. = 84+69.40, 12.00' RT
PT STA. = 91+23.02, 24.00' RT

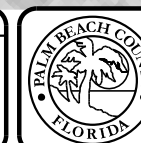
SFWMD L-13 CANAL



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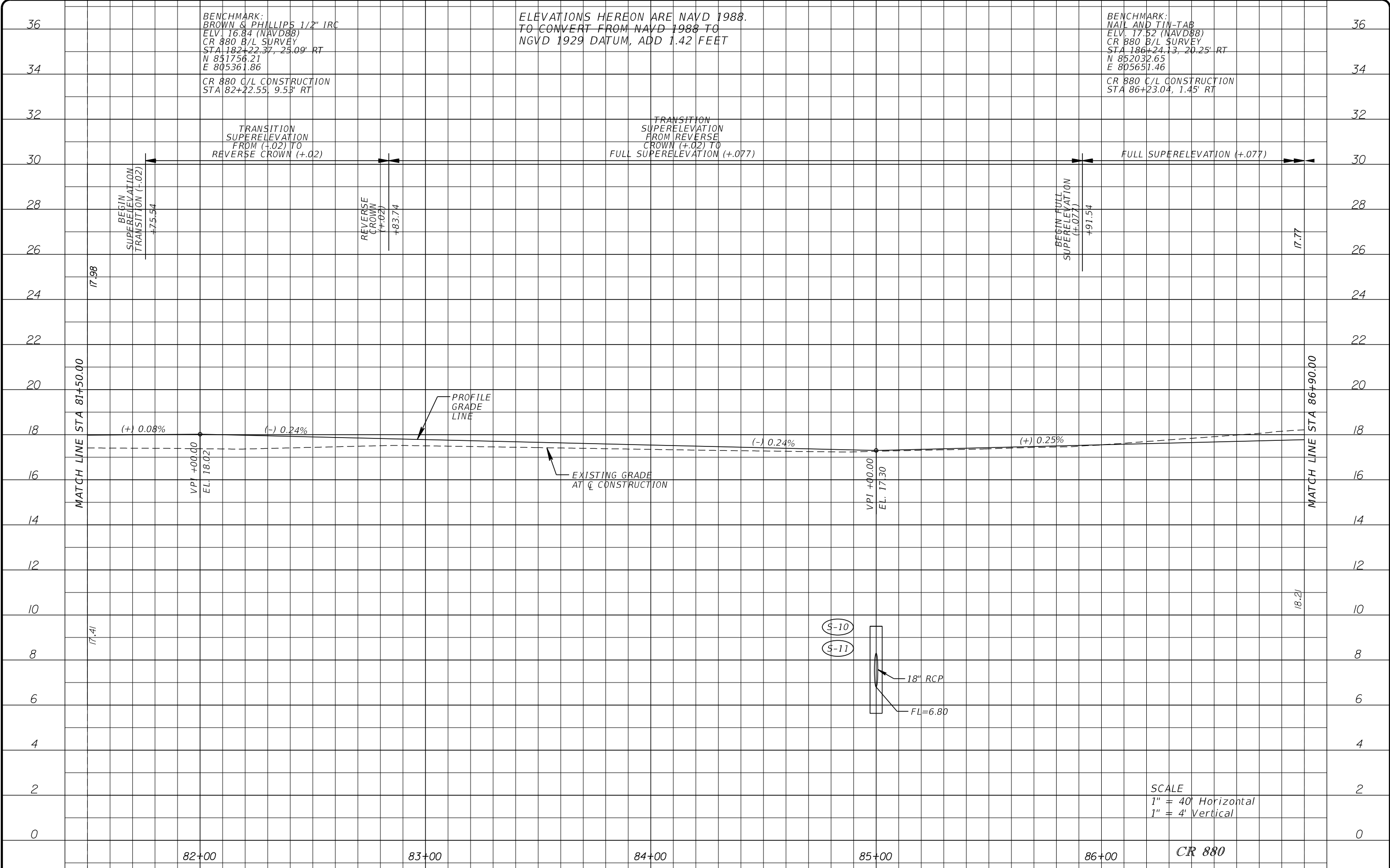
SCALE: 1"=40'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

ROADWAY PLAN

DESIGN FILE NAME
ROADWAY\PLANRD02.DGN

DRAWING NO.

SHEET: 17
OF: 102
PROJECT NO.
2019803



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(INTERSECTION IMPROVEMENTS AND
BRIDGE REPLACEMENT)

NO.	REVISION	BY	DATE



PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=40'
APPROVED: A.A.
DRAWN: D.H.
CHECKED: A.A.
DATE: 08/22/24

ROADWAY PROFILE

DESIGN FILE NAME
ROADWAY-PROFRD02.DGN

DRAWING NO.

SHEET: 18
OF: 102
PROJECT NO.
2019803