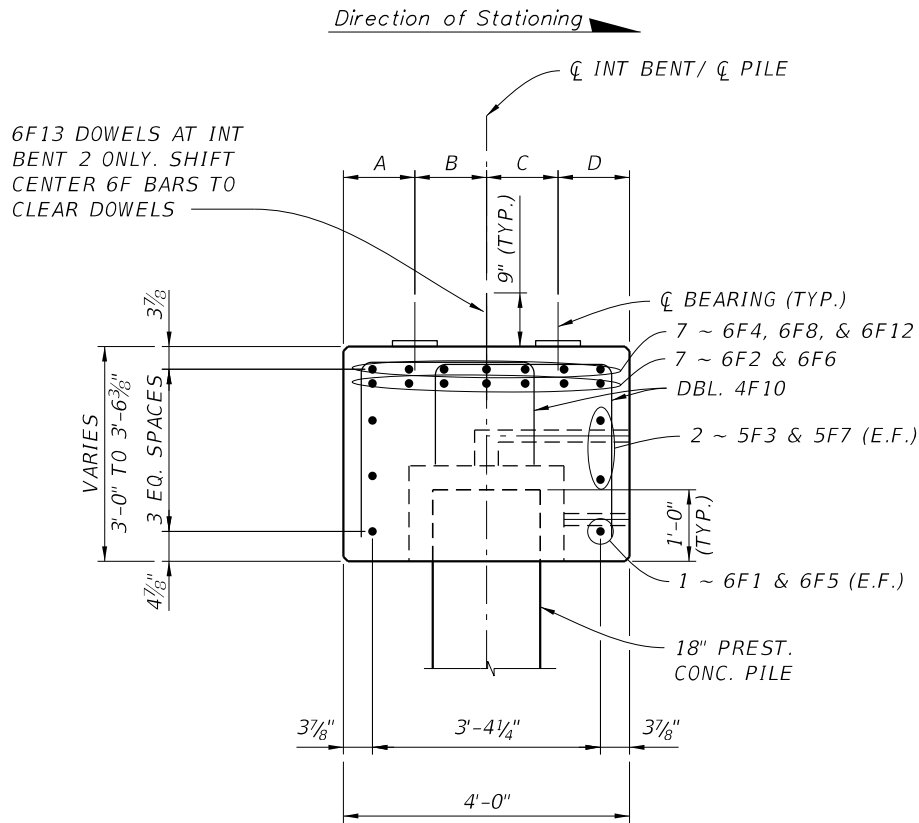
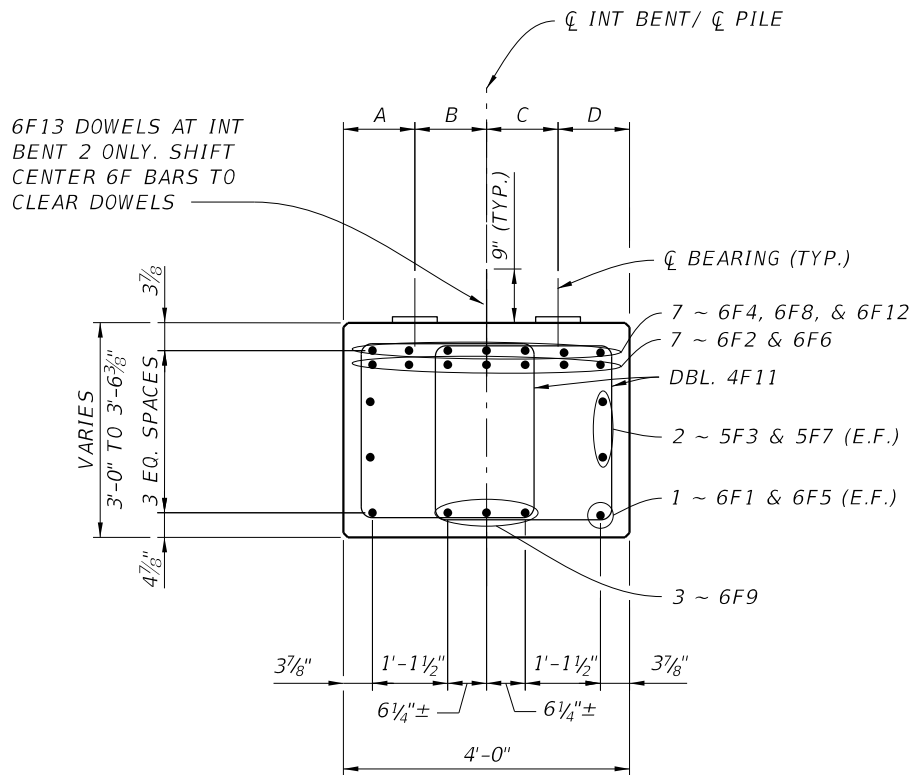


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SECTION A-A

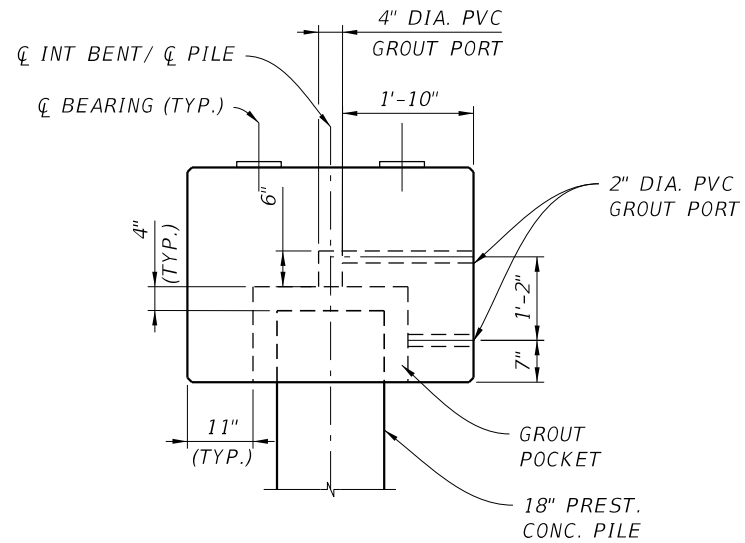


SECTION B-B

NOTES

- FOR LOCATION OF SECTIONS, SEE INT BENT 2 TO INT BENT 5 SHEETS.
- ADJUST BARS 4F8 AND 4F9 TO CLEAR GROUT PORTS.
- ADJUST THE TOP OF THE PILE CAP TO ACCOUNT FOR THE BENT ELEVATIONS AS SHOWN IN THE INT BENT SHEETS. THE VERTICAL ADJUSTMENTS SHOULD BE MADE IN THE CENTERLINE OF THE CAP.

BEARING LOCATIONS				
LOC	A	B	C	D
INT BENT 2	1'-0"	1'-0"	1'-0"	1'-0"
INT BENT 3	11 ¹ / ₂ "	1'-0 ¹ / ₂ "	1'-1 ¹ / ₂ "	10 ¹ / ₂ "
INT BENT 4	10 ¹ / ₂ "	1'-1 ¹ / ₂ "	1'-1 ¹ / ₂ "	10 ¹ / ₂ "
INT BENT 5	10 ¹ / ₂ "	1'-1 ¹ / ₂ "	1'-0 ¹ / ₂ "	11 ¹ / ₂ "



GROUT POCKET AND PORT DETAIL

PILE GROUTING NOTES

- CONTRACTOR SHALL TAKE CARE TO DRIVE ALL PILES AS INDICATED ON THE FOUNDATION LAYOUT SHEET. PILES SHALL BE DRIVEN PLUMB SO THE TOPS OF THE PILES ARE LEVELED. IF PILES ARE NOT DRIVEN WITHIN TOLERANCES OF THE LOCATION AS SPECIFIED IN THE PLANS, CONTRACTOR SHALL NOTIFY EOR IMMEDIATELY.
- CONTRACTOR SHALL WAIT UNTIL PILES HAVE BEEN DRIVEN BEFORE BEGINNING CONSTRUCTION OF CAPS. CONTRACTOR SHALL VERIFY CAP DIMENSIONS, GROUT POCKET LOCATIONS AND ADJUST REINFORCEMENT AS NEEDED.
- CONTRACTOR SHALL INSTALL SPACERS BETWEEN THE TOP AND SIDES OF THE PILE TO ALLOW FOR A 4" GAP BETWEEN THE PILE AND CAP (ALL SIDES).
- CONTRACTOR SHALL INSTALL LIFTING POINTS IN THE CAPS SO THE CAPS DO NOT BEND DURING LIFTING OPERATIONS. LIFTING HOOKS SHALL BE CUT OFF OR CONCRETE LIFTING PORTS SHALL BE CAPPED OFF. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRECAST CAP TO THE EOR FOR REVIEW AND APPROVAL.
- CONTRACTOR SHALL LOWER THE PRECAST CAPS AND PLACE ON TOP OF THE PILES. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE THE PRECAST CAPS. THE BOTTOM OF THE CAPS SHALL BE INSTALLED LEVELED.
- CONTRACTOR SHALL USE SACRIFICIAL FORMS TO FORM THE BOTTOM OF THE GROUT POCKET. THE FORM SHALL BE FLUSH WITH THE BOTTOM OF THE CAP.
- HYDRAULIC GROUT SHALL BE PUMPED INTO THE BOTTOM GROUT PORT UNTIL THE GROUT FLOWS OUT OF THE TOP GROUT PORT. AFTER PUMPING OPERATIONS, GROUT PORTS SHALL BE SEALED.
- ALLOW THE HYDRAULIC GROUT TO CURE FOR A MINIMUM OF 72 HOURS BEFORE PLACING ANY LOADS ON TOP OF THE CAP.
- CONTRACTOR IS PERMITTED TO CHANGE HOW THE PRECAST CAPS ARE CONSTRUCTED AND INSTALLED. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND STRUCTURAL DESIGN CALCULATIONS (SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER) TO EOR FOR APPROVAL IF ANY CHANGES ARE MADE TO THE PRECAST PILE CAPS AS SHOWN.

BRIDGE NO. 934000

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
REPLACEMENT**

NO.	REVISION	BY	DATE



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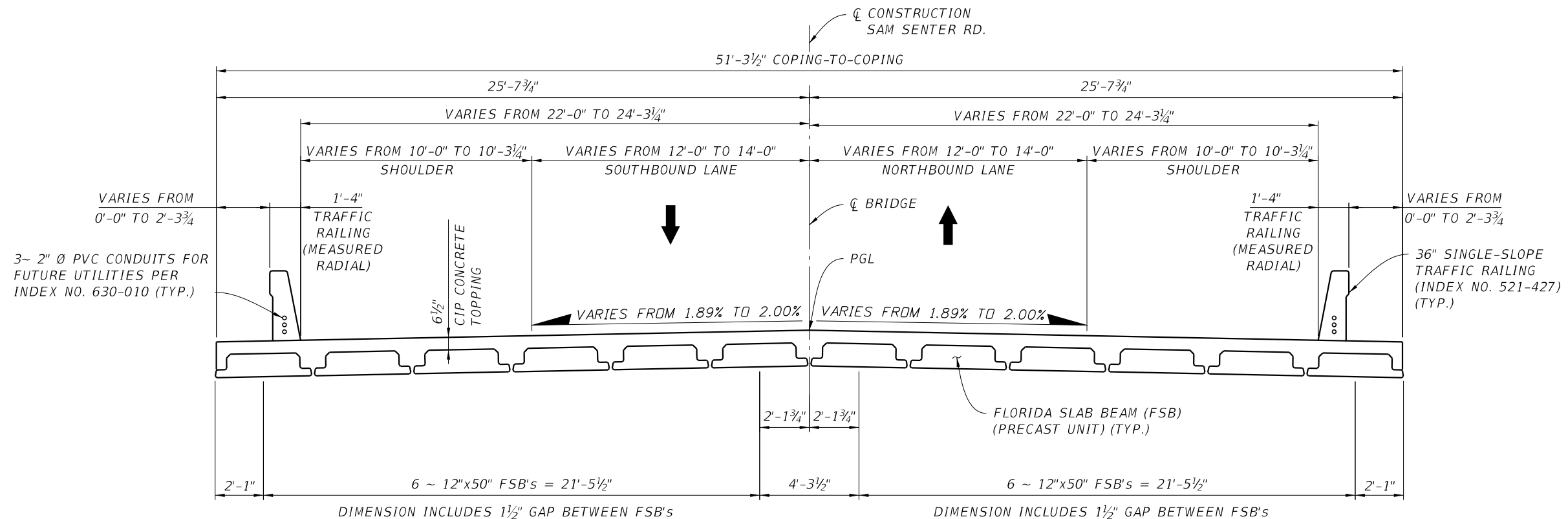
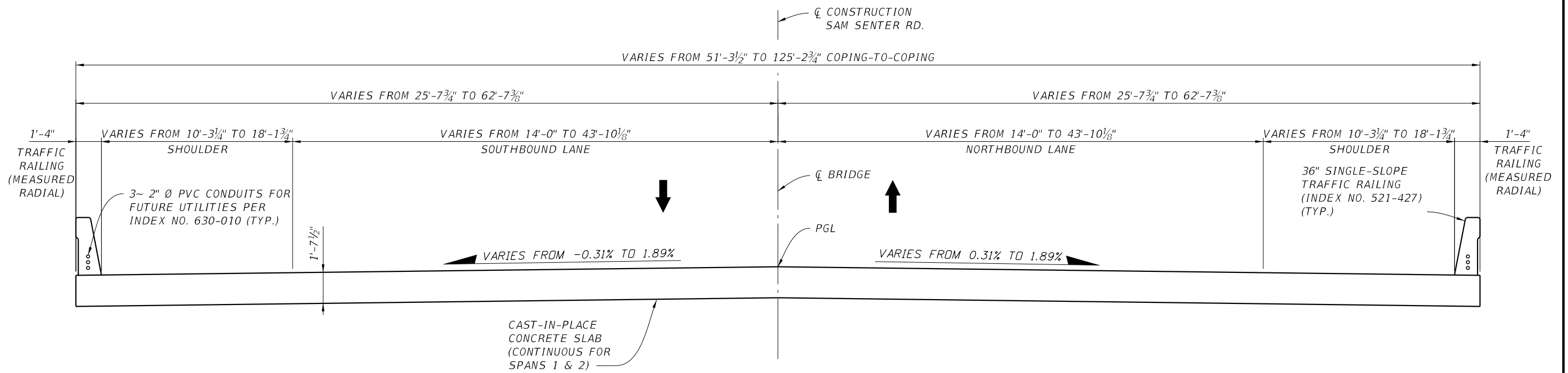
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APPROVED: A.A.
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DATE: 11/5/24

**INTERMEDIATE BENT
DETAILS**

DESIGN FILE NAME

DRAWING NO.

SHEET: B1-21
OF: 48 OF 95
PROJECT NO.
2019803



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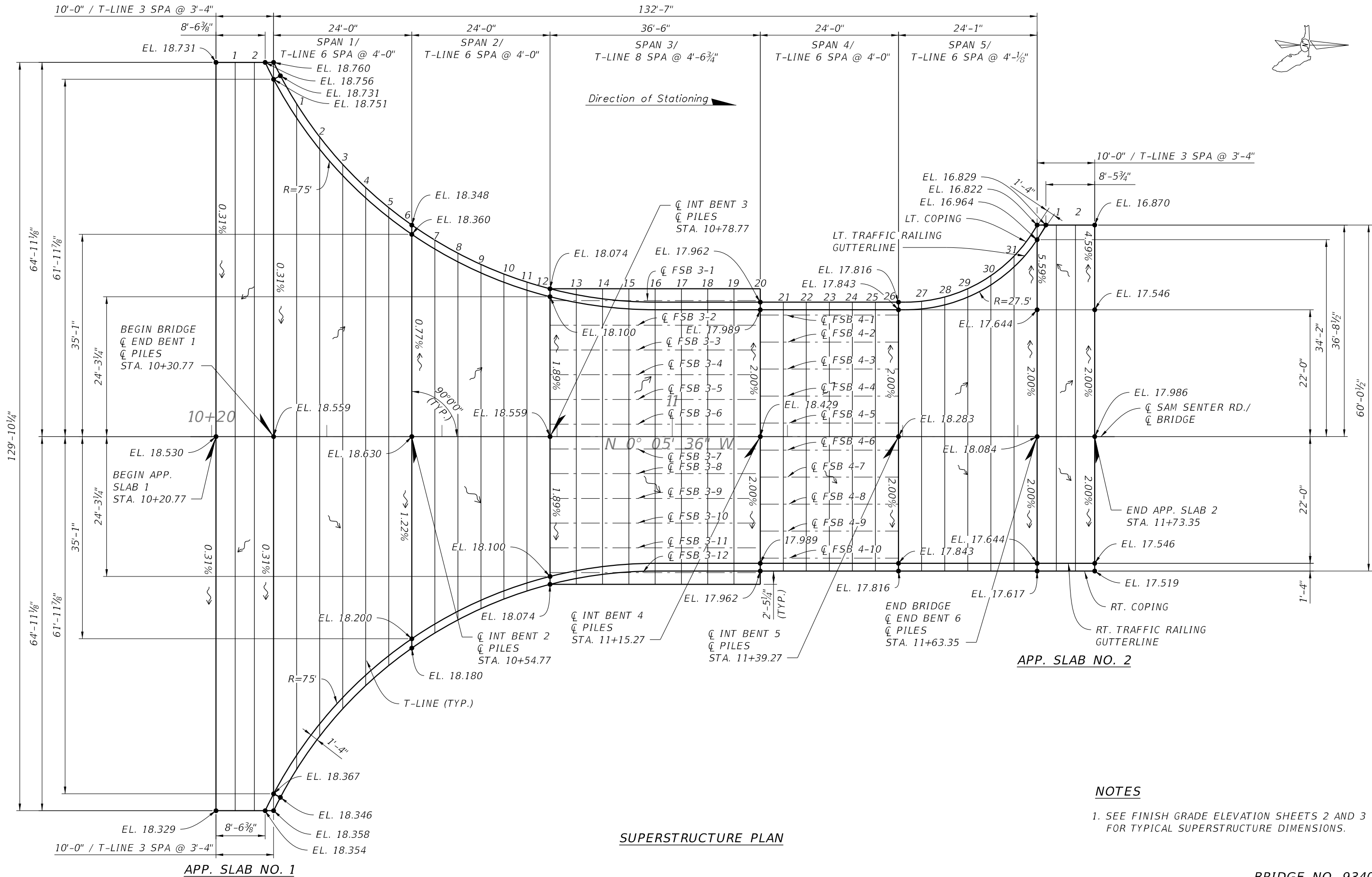
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APPROVED: A.A.
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TYPICAL SECTION
THROUGH BRIDGE DECK
(1 OF 2)

SHEET: *B1-22*
 OF: *49 OF 95*
 PROJECT NO. *2019803*



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NOTES

1. SEE FINISH GRADE ELEVATION SHEETS 2 AND 3 FOR TYPICAL SUPERSTRUCTURE DIMENSIONS.

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APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

FINISH GRADE ELEVATIONS
(1 OF 5)

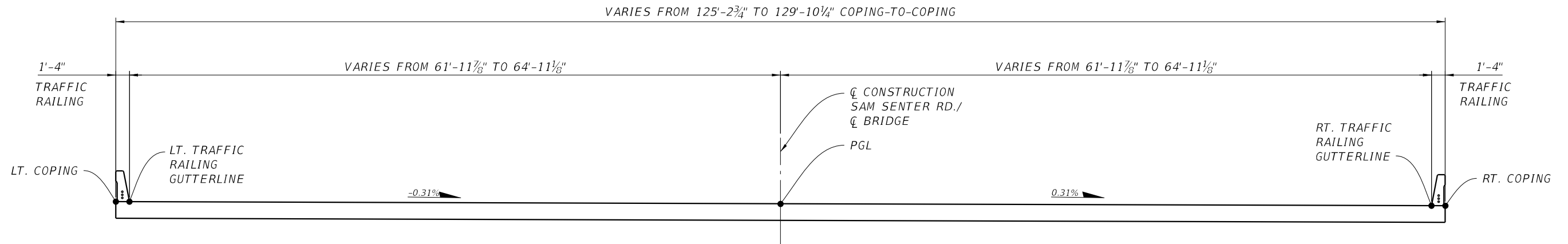
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DRAWING NO.

BRIDGE NO. 934000

SHEET: B1-24
OF: 51 OF 95
PROJECT NO.
2019803

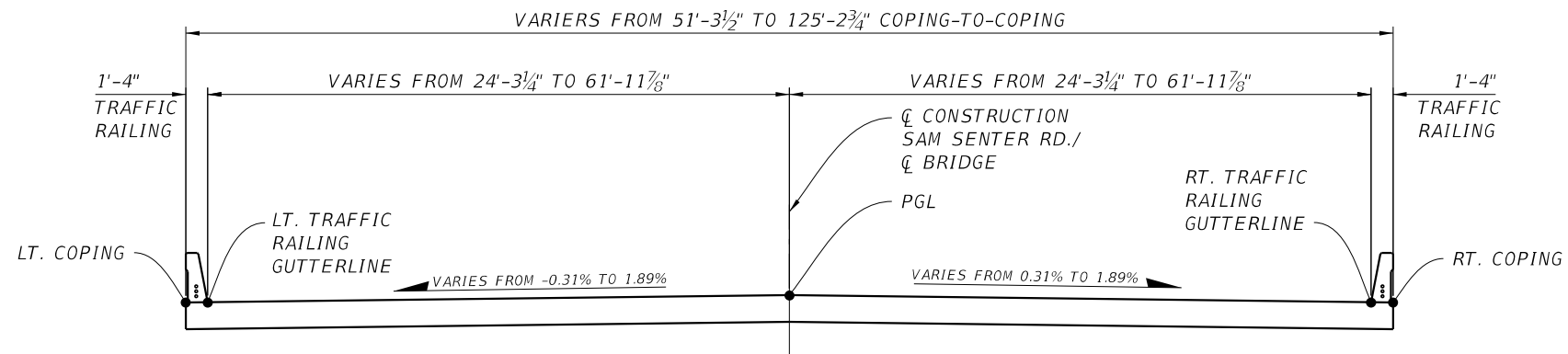
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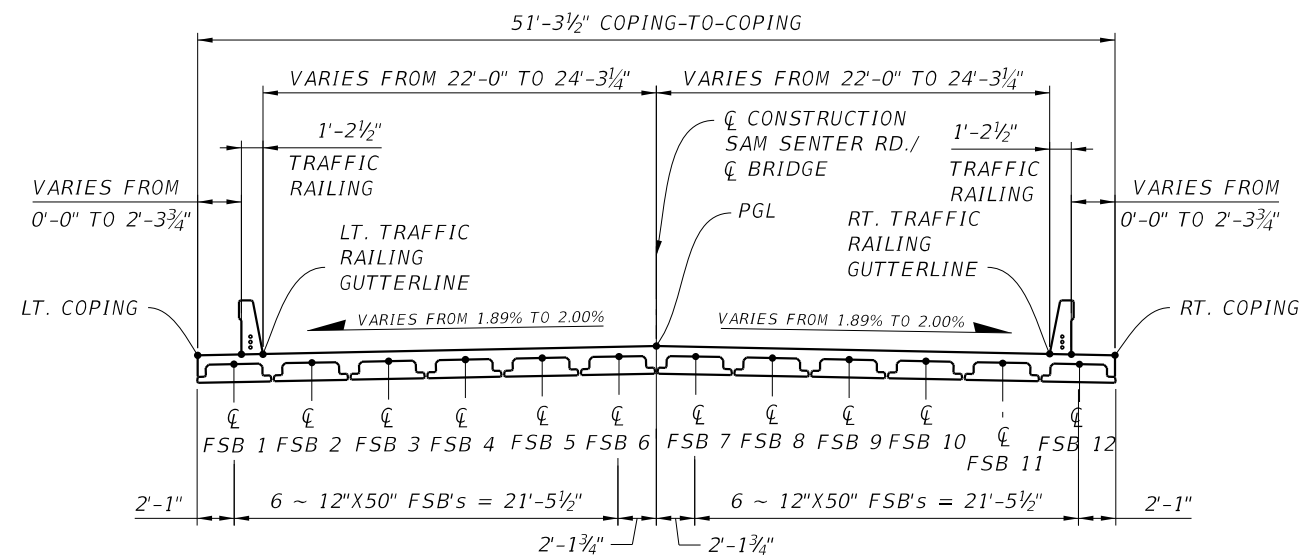
TYPICAL SECTION THRU APPROACH SLAB 1

NOTE

1. FOR RAILING AT THE COPING, THE RAILING DIMENSION IS MEASURED FROM THE FRONT FACE OF RAILING TO THE COPING EDGE.



TYPICAL SECTION THRU SPANS 1 AND 2



TYPICAL SECTION THRU SPAN 3

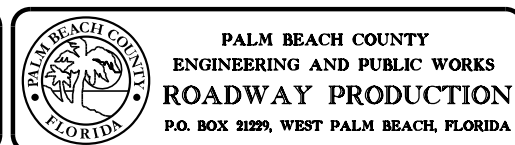
NOTE

1. FOR RAILING NOT AT THE COPINGS, THE RAILING DIMENSION IS MEASURED FROM THE FRONT FACE OF RAILING TO BACK FACE OF RAILING.

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
REPLACEMENT**

NO.	REVISION	BY	DATE



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APPROVED: A.A.
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DATE: 11/5/24

**FINISH GRADE ELEVATIONS
(2 OF 5)**

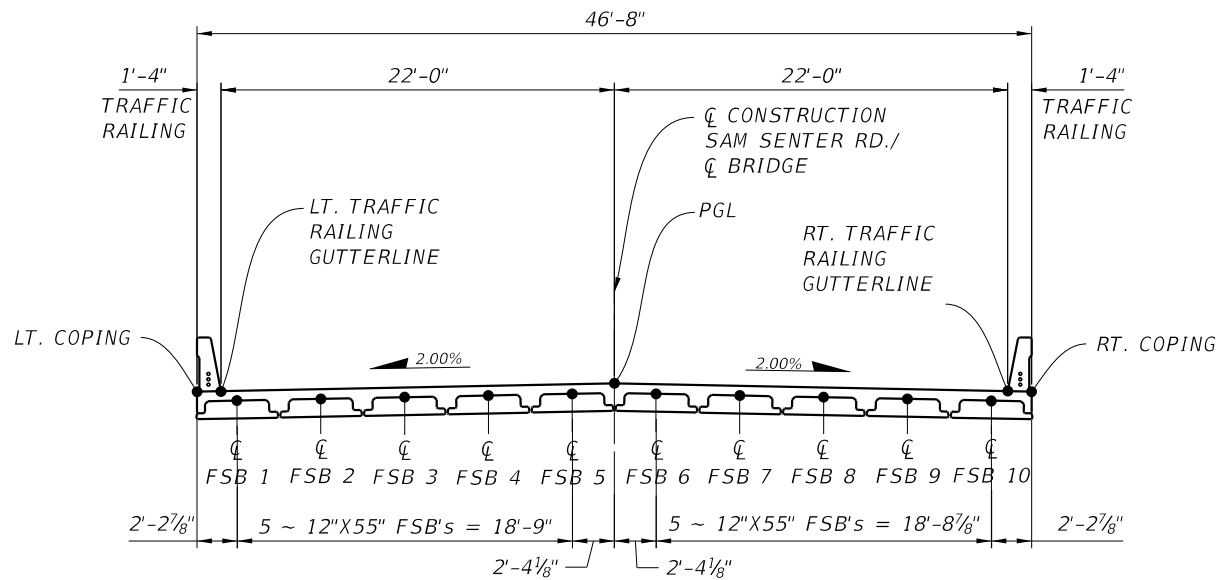
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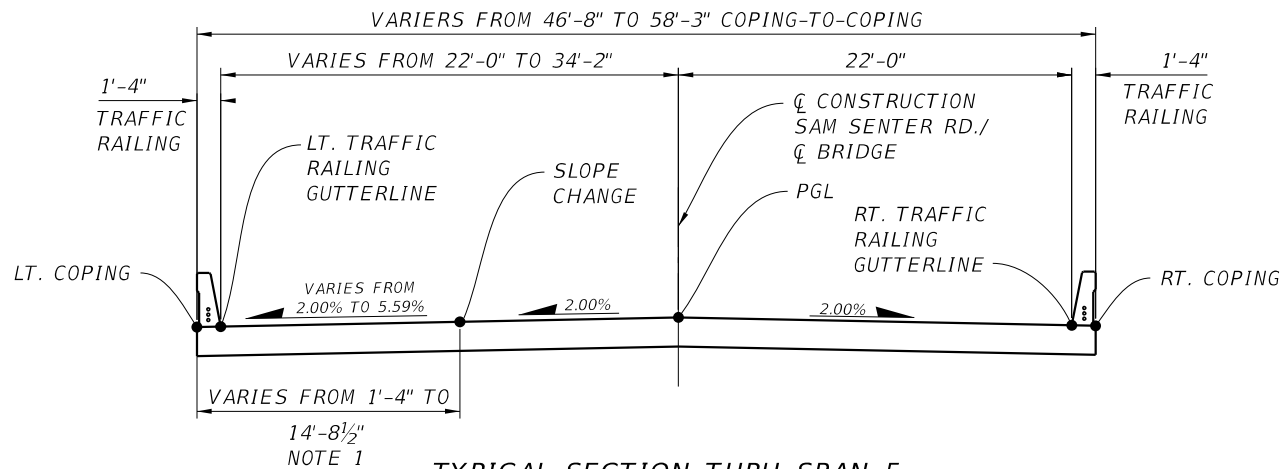
SHEET: B1-25
OF: 52 OF 95
PROJECT NO.
2019803

BRIDGE NO. 934000

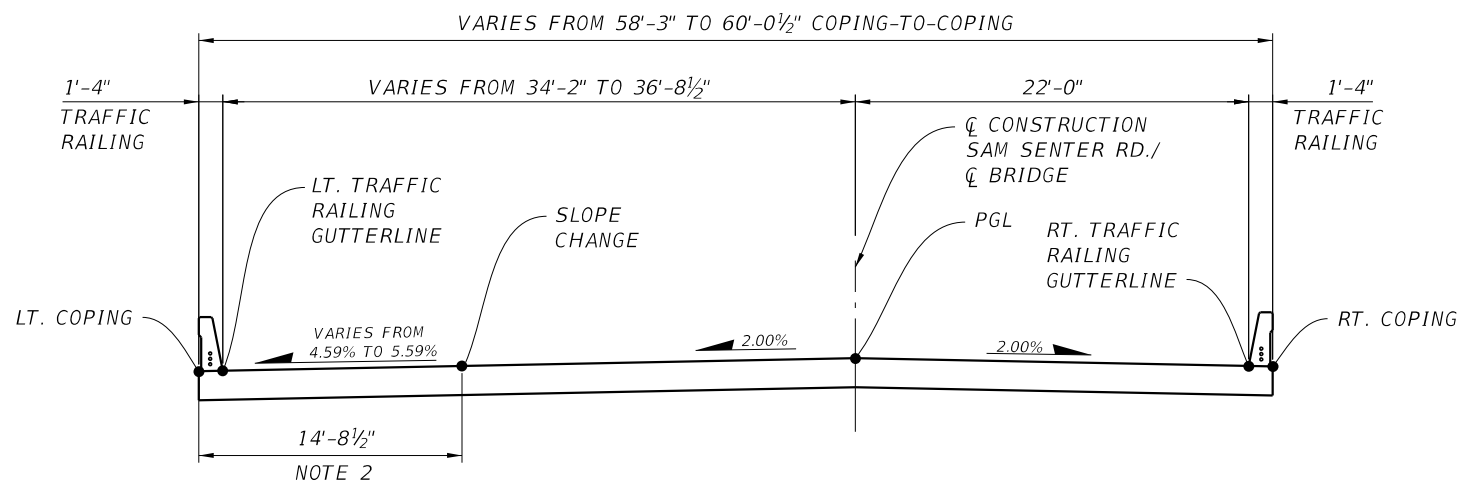
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TYPICAL SECTION THRU SPAN 4



TYPICAL SECTION THRU SPAN 5



TYPICAL SECTION THRU APPROACH SLAB 2

NOTE

1. FOR RAILING AT THE COPING, THE RAILING DIMENSION IS MEASURED FROM THE FRONT FACE OF RAILING TO THE COPING EDGE.

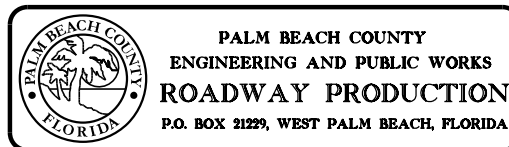
NOTES

1. MEASURED FROM NORTHWEST CORNER OF SPAN 5.
2. MEASURED FROM NORTHWEST CORNER OF APP. SLAB 2.

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
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NO.	REVISION	BY	DATE



SCALE: 3/32"=1'
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**FINISH GRADE ELEVATIONS
(3 OF 5)**

DESIGN FILE NAME

DRAWING NO.

SHEET: B1-26
OF: 53 OF 95
PROJECT NO.
2019803

BRIDGE NO. 934000

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APPROACH SLAB NO. 1				
T- LINES & BENTS LOCATION	BEGIN APP. SLAB	1	2	BEGIN BRIDGE
LT. COPING	18.731	18.741	18.751	18.761
LT. TRAFFIC RAIL GUTTERLINE	18.722	18.732	18.742	18.752
℄ CONSTRUCTION (Sam Senter)/ PGL	18.530	18.540	18.550	18.560
RT. TRAFFIC RAIL GUTTERLINE	18.338	18.348	18.358	18.368
RT. COPING	18.329	18.339	18.349	18.359

SPAN LOCATION	SPAN 1						SPAN 2						
T- LINES & BENTS LOCATION	BEGIN BRIDGE	1	2	3	4	5	INT BENT 2/ 6	7	8	9	10	11	INT BENT 3/ 12
LT. COPING	18.761	18.647	18.558	18.487	18.431	18.386	18.347	18.292	18.242	18.197	18.154	18.114	18.073
LT. TRAFFIC RAIL GUTTERLINE	18.752	18.644	18.559	18.492	18.438	18.396	18.360	18.307	18.259	18.216	18.176	18.137	18.099
℄ CONSTRUCTION (Sam Senter)/ PGL	18.560	18.572	18.584	18.596	18.608	18.620	18.630	18.618	18.606	18.594	18.582	18.570	18.558
RT. TRAFFIC RAIL GUTTERLINE	18.368	18.317	18.278	18.250	18.229	18.214	18.202	18.185	18.168	18.152	18.136	18.118	18.099
RT. COPING	18.359	18.305	18.265	18.235	18.212	18.196	18.182	18.164	18.147	18.130	18.112	18.094	18.073

SPAN LOCATION	SPAN 3								
T- LINES & BENTS LOCATION	INT BENT 3/ 12	13	14	15	16	17	18	19	INT BENT 4/ 20
LT. COPING	18.073	18.056	18.039	18.022	18.007	17.987	17.965	17.941	17.916
℄ FSB 1	18.112	18.095	18.078	18.061	18.046	18.027	18.005	17.982	17.957
LT. TRAFFIC RAIL OUTSIDE FACE	18.073	18.076	18.072	18.063	18.052	18.032	18.011	17.987	17.962
LT. TRAFFIC RAIL GUTTERLINE	18.099	18.101	18.098	18.089	18.078	18.058	18.037	18.014	17.989
℄ FSB 2	18.193	18.177	18.160	18.144	18.130	18.111	18.090	18.067	18.042
℄ FSB 3	18.274	18.258	18.243	18.227	18.213	18.195	18.175	18.152	18.128
℄ FSB 4	18.355	18.340	18.325	18.310	18.297	18.279	18.259	18.238	18.214
℄ FSB 5	18.436	18.422	18.407	18.393	18.380	18.363	18.344	18.323	18.300
℄ FSB 6	18.517	18.503	18.489	18.545	18.464	18.447	18.428	18.408	18.386
℄ CONSTRUCTION (Sam Senter)/ PGL	18.558	18.544	18.531	18.517	18.506	18.489	18.471	18.451	18.429
℄ FSB 7	18.517	18.503	18.489	18.475	18.464	18.447	18.428	18.408	18.386
℄ FSB 8	18.436	18.422	18.407	18.393	18.380	18.363	18.344	18.323	18.300
℄ FSB 9	18.355	18.340	18.325	18.310	18.297	18.279	18.259	18.238	18.214
℄ FSB 10	18.274	18.258	18.243	18.227	18.213	18.195	18.175	18.152	18.128
℄ FSB 11	18.193	18.177	18.160	18.144	18.130	18.111	18.090	18.067	18.042
RT. TRAFFIC RAIL GUTTERLINE	18.099	18.101	18.098	18.089	18.078	18.058	18.037	18.014	17.989
RT. TRAFFIC RAIL OUTSIDE FACE	18.073	18.076	18.072	18.063	18.052	18.032	18.011	17.987	17.962
℄ FSB 12	18.112	18.095	18.078	18.061	18.046	18.027	18.005	17.982	17.957
RT. COPING	18.073	18.056	18.039	18.022	18.007	17.987	17.965	17.941	17.916

NOTES

1. Elevations shown are to top of concrete.

BRIDGE NO. 934000

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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:
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

FINISH GRADE ELEVATIONS
(4 OF 5)

DESIGN FILE NAME	DRAWING NO.
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SHEET: *BI-27*
OF: 54 OF 95
PROJECT NO.
2019803

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SPAN LOCATION		SPAN 4						
T- LINES & BENTS		INT BENT 4/ 20	21	22	23	24	25	INT BENT 5/ 26
LOCATION								
LT. COPING		17.962	17.941	17.919	17.895	17.870	17.844	17.816
LT. TRAFFIC RAIL GUTTERLINE		17.989	17.968	17.946	17.922	17.897	17.870	17.842
C FSB 1		18.007	17.986	17.964	17.940	17.915	17.889	17.861
C FSB 2		18.101	18.080	18.057	18.034	18.009	17.982	17.954
C FSB 3		18.194	18.173	18.151	18.128	18.103	18.076	18.048
C FSB 4		18.288	18.267	18.245	18.221	18.196	18.170	18.142
C FSB 5		18.382	18.361	18.339	18.315	18.290	18.264	18.236
C CONSTRUCTION (Sam Senter)/ PGL		18.429	18.408	18.386	18.362	18.337	18.310	18.282
C FSB 6		18.382	18.361	18.339	18.315	18.290	18.264	18.236
C FSB 7		18.288	18.267	18.245	18.221	18.196	18.170	18.142
C FSB 8		18.194	18.173	18.151	18.128	18.103	18.076	18.048
C FSB 9		18.101	18.080	18.057	18.034	18.009	17.982	17.954
C FSB 10		18.007	17.986	17.964	17.940	17.915	17.889	17.861
RT. TRAFFIC RAIL GUTTERLINE		17.989	17.968	17.946	17.922	17.897	17.870	17.842
RT. COPING		17.962	17.941	17.919	17.895	17.870	17.844	17.816

SPAN LOCATION		SPAN 5						
T- LINES & BENTS		INT BENT 5/ 26	27	28	29	30	31	End BRIDGE
LOCATION								
LT. COPING		17.816	17.775	17.711	17.611	17.456	17.216	16.822
LT. TRAFFIC RAIL GUTTERLINE		17.842	17.810	17.755	17.666	17.526	17.309	16.964
C CONSTRUCTION (Sam Senter)/ PGL		18.282	18.253	18.222	18.190	18.156	18.121	18.084
RT. TRAFFIC RAIL GUTTERLINE		17.842	17.813	17.782	17.750	17.716	17.681	17.644
RT. COPING		17.816	17.786	17.756	17.723	17.690	17.654	17.618

APPROACH SLAB NO. 2				
T- LINES & BENTS LOCATION	END BRIDGE	1	2	END APP. SLAB
LT. COPING	16.822	16.840	16.856	16.872
LT. TRAFFIC RAIL GUTTERLINE	16.964	16.973	16.981	16.988
℄ CONSTRUCTION (Sam Senter)/ PGL	18.084	18.053	18.020	17.987
RT. TRAFFIC RAIL GUTTERLINE	17.644	17.613	17.580	17.547
RT. COPING	17.618	17.586	17.554	17.520

NOTES

1. Elevations shown are to top of concrete.

BRIDGE NO. 934000

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
REPLACEMENT**

NO.	REVISION	BY	DATE

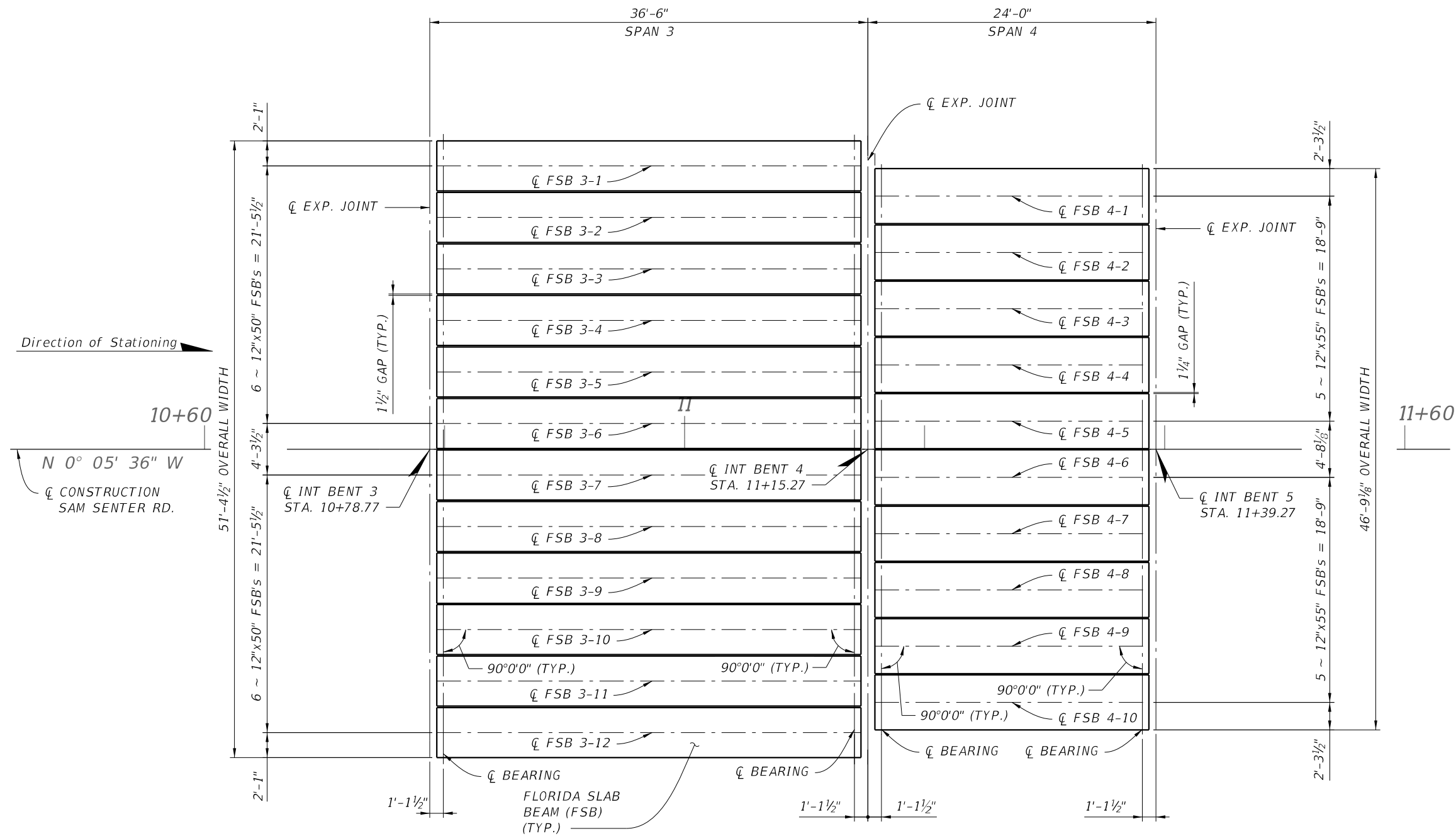
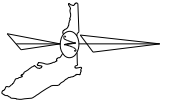


PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE:
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

FINISH GRADE ELEVATIONS
(5 OF 5)

DESIGN FILE NAME	DRAWING NO.
PROJECT NO. 2019803	SHEET: <i>BI-28</i> OF: 55 OF 95



SPANS 3 AND 4 FLORIDA SLAB BEAM FRAMING PLAN

NOTE

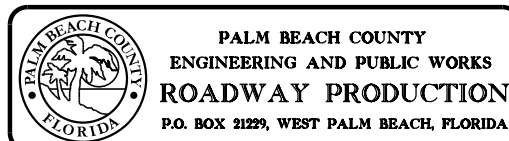
1. SEE SUPERSTRUCTURE DETAILS SHEET 4 OF 6 FOR DETAILS ON THE DIAPHRAGM.

BRIDGE NO. 934000

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SCALE: 1"=15'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

FRAMING PLAN

DESIGN FILE NAME

DRAWING NO.

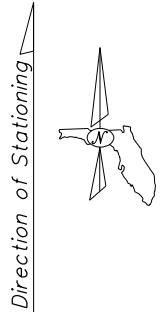
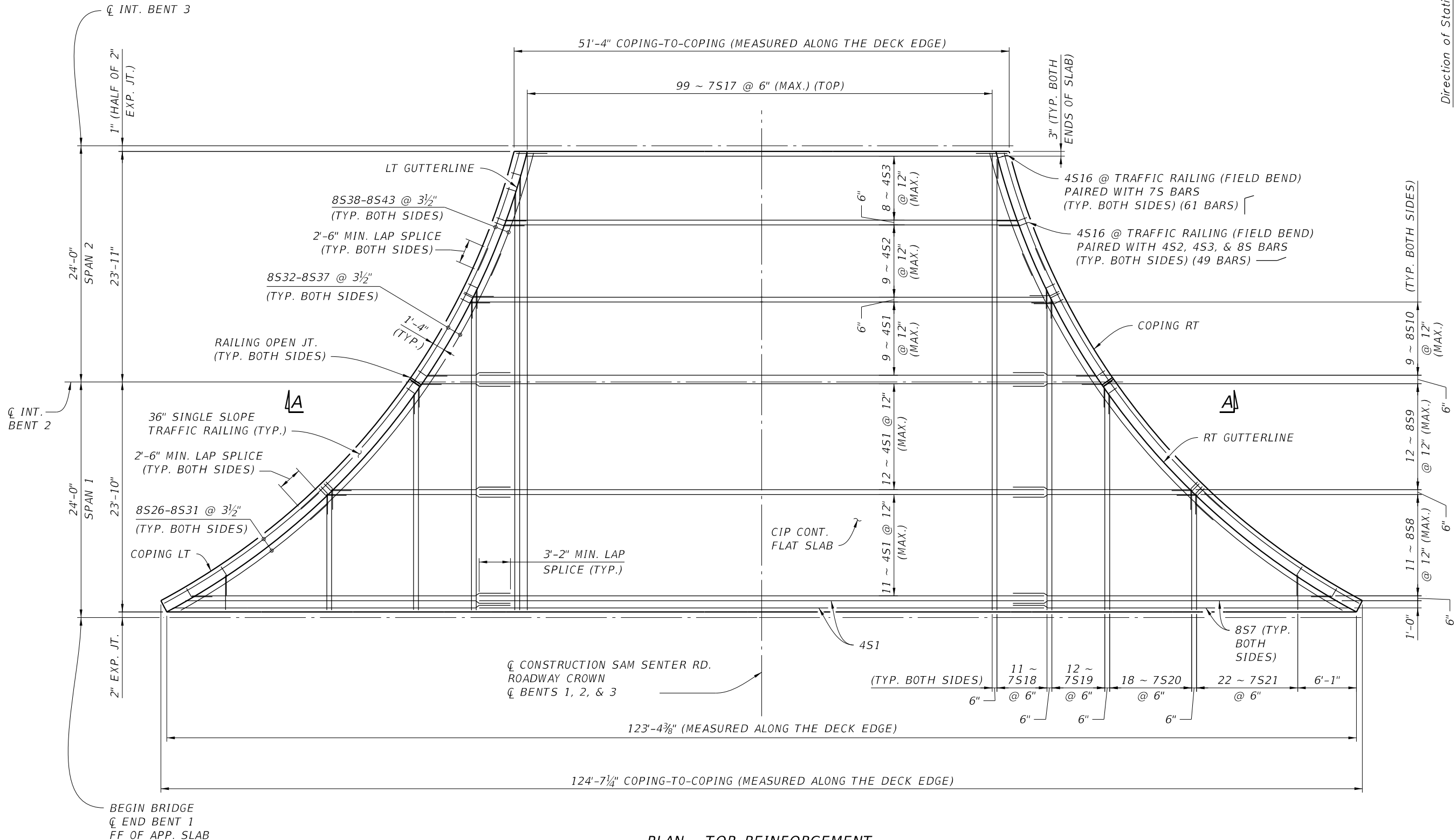
SHEET: B1-29
OF: 56 OF 95
PROJECT NO.
2019803

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NOTE

1. SEE SUPERSTRUCTURE DETAILS (SHEET 1 OF 6) FOR SECTION A-A.

PLAN - TOP REINFORCEMENT

(TRAFFIC RAILING REINFORCEMENT BARS 4V AND 4S NOT SHOWN FOR CLARITY)

BRIDGE NO. 934000

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**SUPERSTRUCTURE
(1 OF 5)
SPANS 1 AND 2**

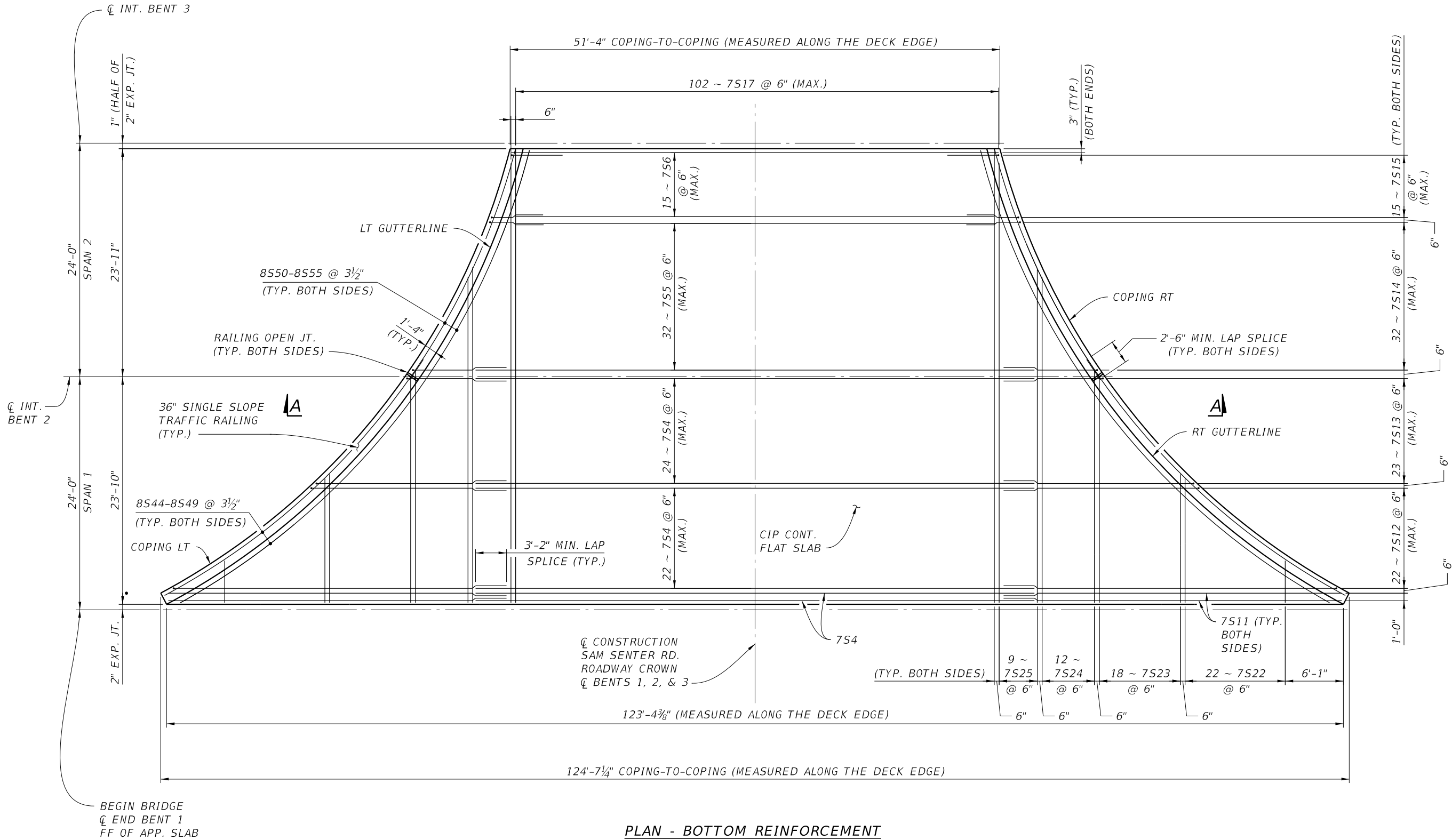
SHEET: BI-30
OF: 57 OF 95
PROJECT NO.
2019803

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PLAN - BOTTOM REINFORCEMENT

(TRAFFIC RAILING REINFORCEMENT BARS 4V AND 4S NOT SHOWN FOR CLARITY)

NOTE

1. SEE SUPERSTRUCTURE DETAILS (SHEET 1 OF 6) FOR SECTION A-A.

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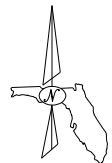
**SUPERSTRUCTURE
(2 OF 5)
SPANS 1 AND 2**

DESIGN FILE NAME

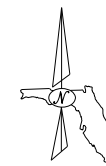
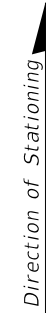
DRAWING NO.

SHEET: B1-31
OF: 58 OF 95
PROJECT NO.
2019803

BRIDGE NO. 934000

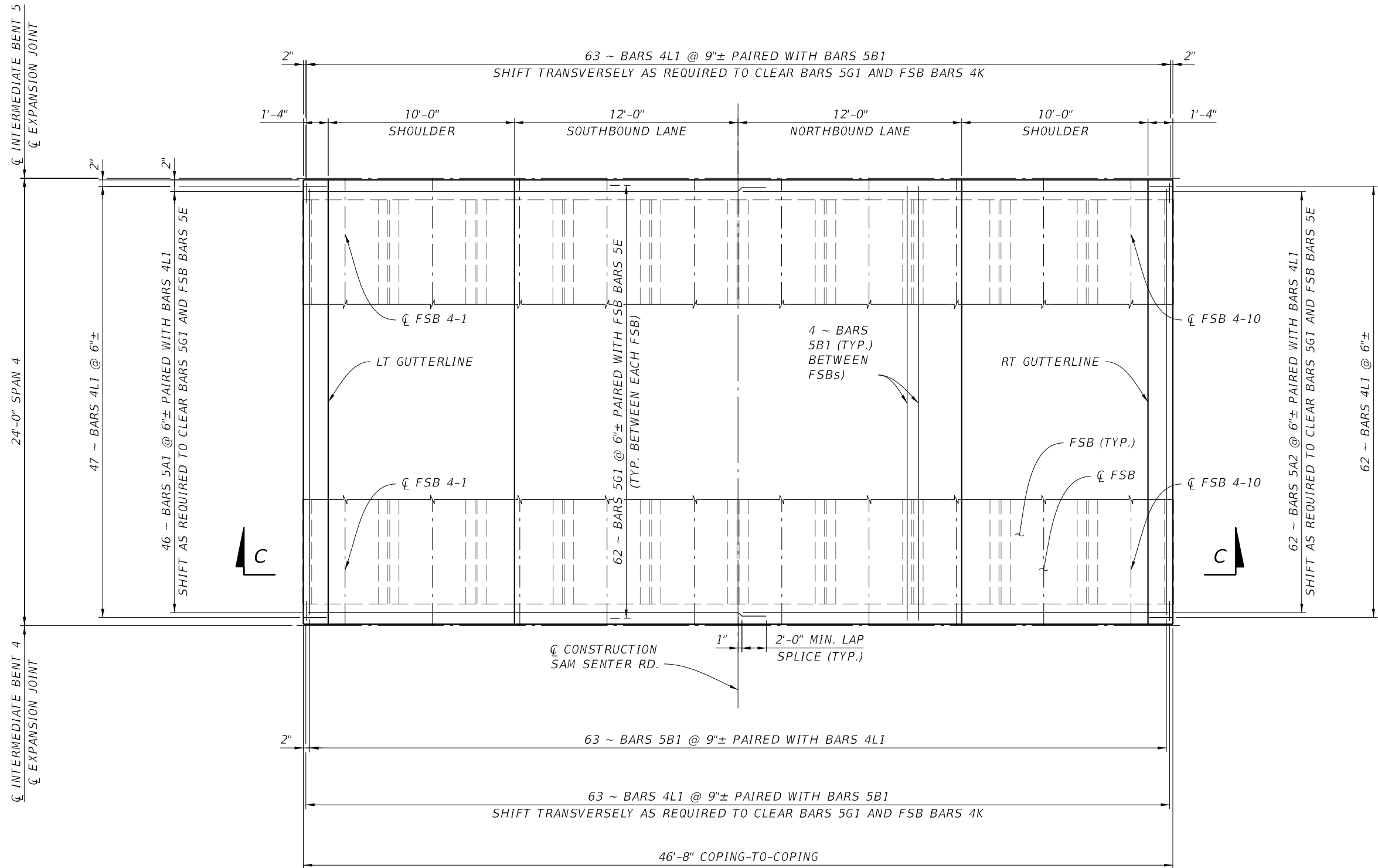


Direction of Stationing



(REINFORCEMENT CALLED OUT ON THIS SHEET IS FOR THE C-I-P TOPPING)
(TRAFFIC RAILING REINFORCEMENT BARS 4V AND 4P NOT SHOWN FOR CLARITY)

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NOTE

1. SEE SUPERSTRUCTURE DETAILS (SHEET 2 OF 6) FOR SECTION C-C.

PLAN

(REINFORCEMENT CALLED OUT ON THIS SHEET IS FOR THE C-I-P TOPPING)
(TRAFFIC RAILING REINFORCEMENT BARS 4V AND 4P NOT SHOWN FOR CLARITY)

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APPROVED: A.A.
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DATE: 11/5/24

SUPERSTRUCTURE
(4 OF 5)
SPAN 4

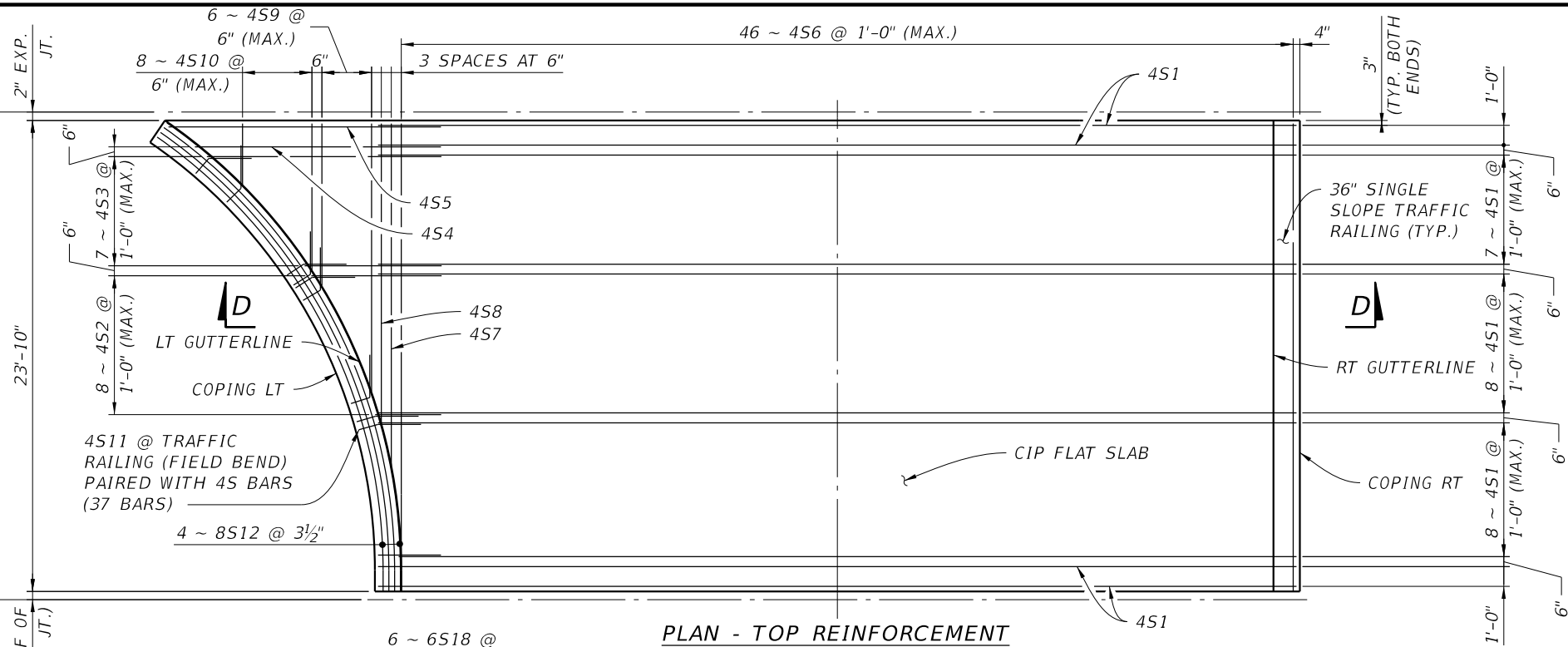
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SHEET: B1-33
OF: 60 OF 95
PROJECT NO. 2019803

BRIDGE NO. 934000

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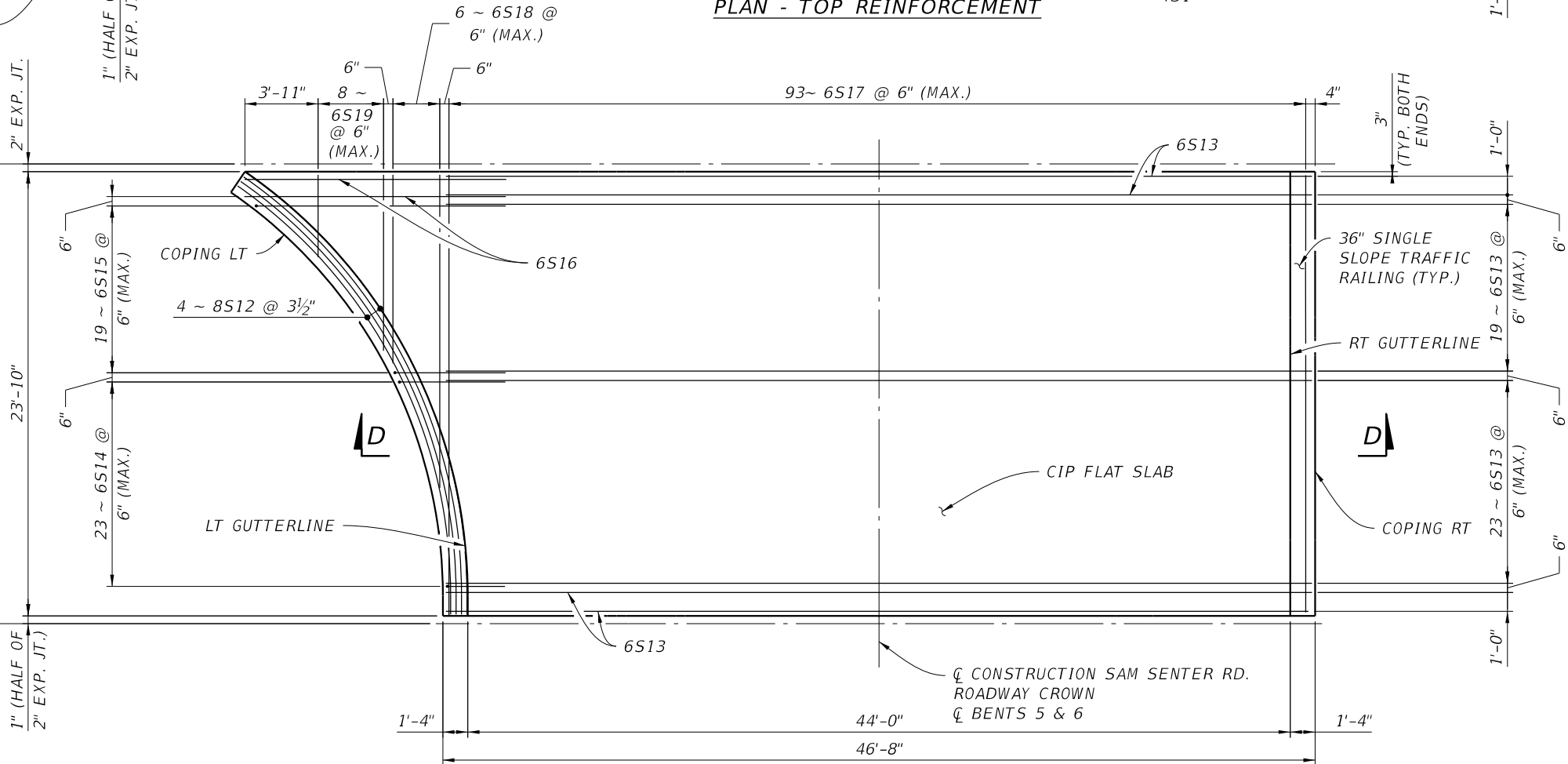
END BRIDGE
CL END BENT 6
FF OF APPROACH SLAB



PLAN - TOP REINFORCEMENT

END BRIDGE
CL END BENT 6
FF OF APPROACH SLAB

CL INT. BENT 5



PLAN - BOT. REINFORCEMENT

NOTE

1. SEE SUPERSTRUCTURE DETAILS (SHEET 5 OF 6) FOR SECTION D-D.

(TRAFFIC RAILING REINFORCEMENT BARS 4V AND 4S NOT SHOWN FOR CLARITY)

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DATE: 11/5/24

**SUPERSTRUCTURE
(5 OF 5)
SPAN 5**

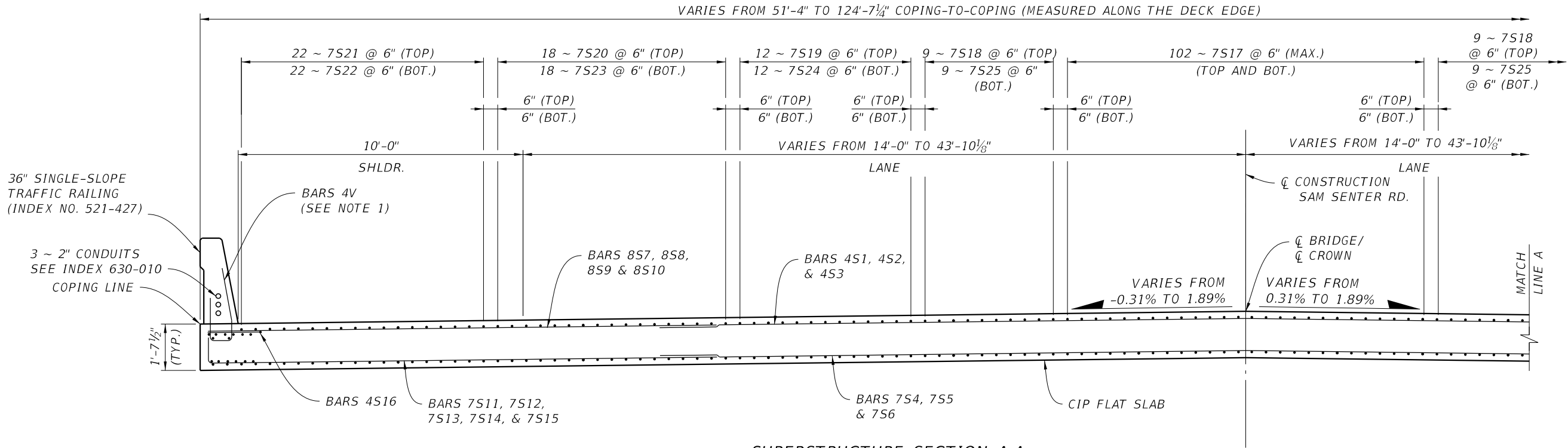
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DRAWING NO.

SHEET: B1-34
OF: 61 OF 95
PROJECT NO.
2019803

BRIDGE NO. 934000

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SUPERSTRUCTURE SECTION A-A

ESTIMATED QUANTITIES FOR BRIDGE SUPERSTURCTURE - SPAN 1

ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure) - Flat Slab	CY	138
Reinforcing Steel (Superstructure)	LB	33,180
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	101
Plain Neoprene Pads - 8"x1"	CF	N/A
Expansion Joints - Poured Joint with Backer Rod	LF	126

- Quantities for Plain Neoprene pads are per bearing line.
- Quantities for Expansion Joints are per joint.

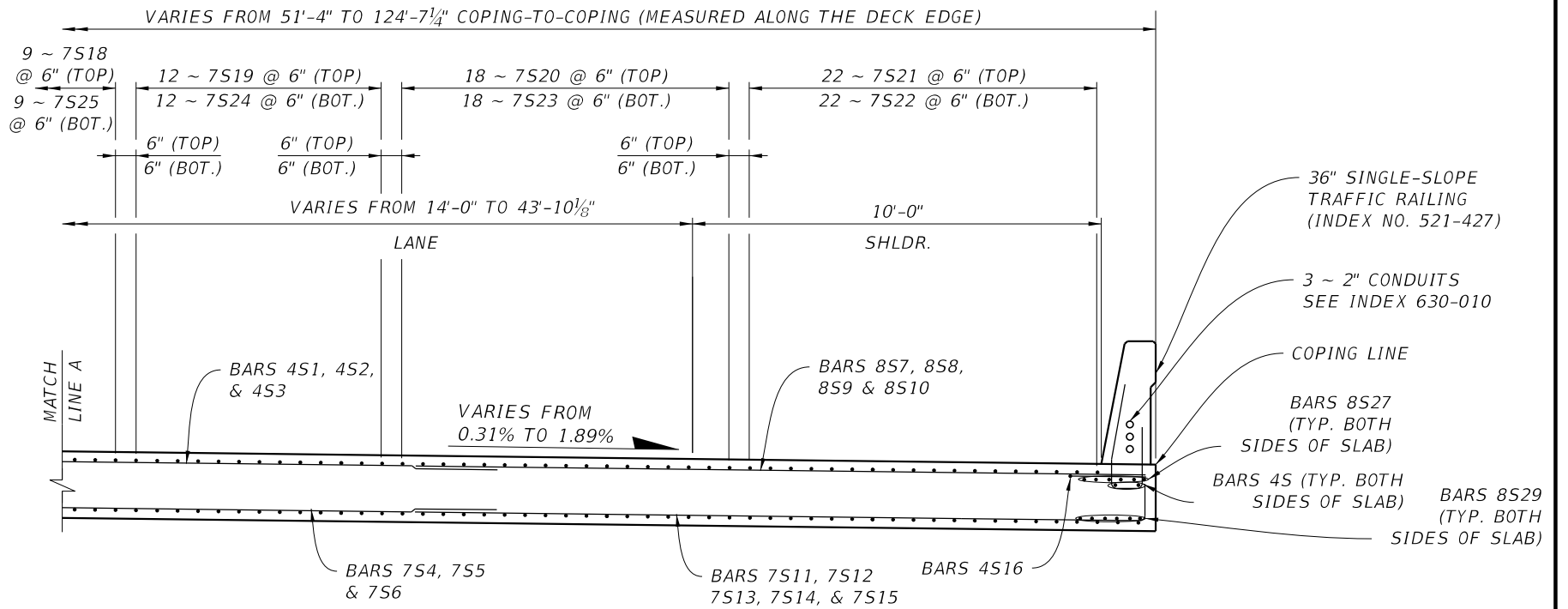
ESTIMATED QUANTITIES FOR BRIDGE SUPERSTURCTURE - SPAN 2

ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure) - Flat Slab	CY	87
Reinforcing Steel (Superstructure)	LB	22,119
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	53
Plain Neoprene Pads - 8"x1"	CF	N/A
Expansion Joints - Poured Joint with Backer Rod	LF	N/A

- Quantities for Plain Neoprene pads are per bearing line.
- Quantities for Expansion Joints are per joint.

NOTES

- FOR DETAILS AND PLACEMENT OF BARS 4S AND 4V,
REFER TO INDEX 521-427, INCLUDED IN THIS DRAWING SET.
- SEE SUPERSTRUCTURE (SHEETS 1 AND 2 OF 5) FOR SECTION A-A.



SUPERSTRUCTURE SECTION A-A

BRIDGE NO. 934000

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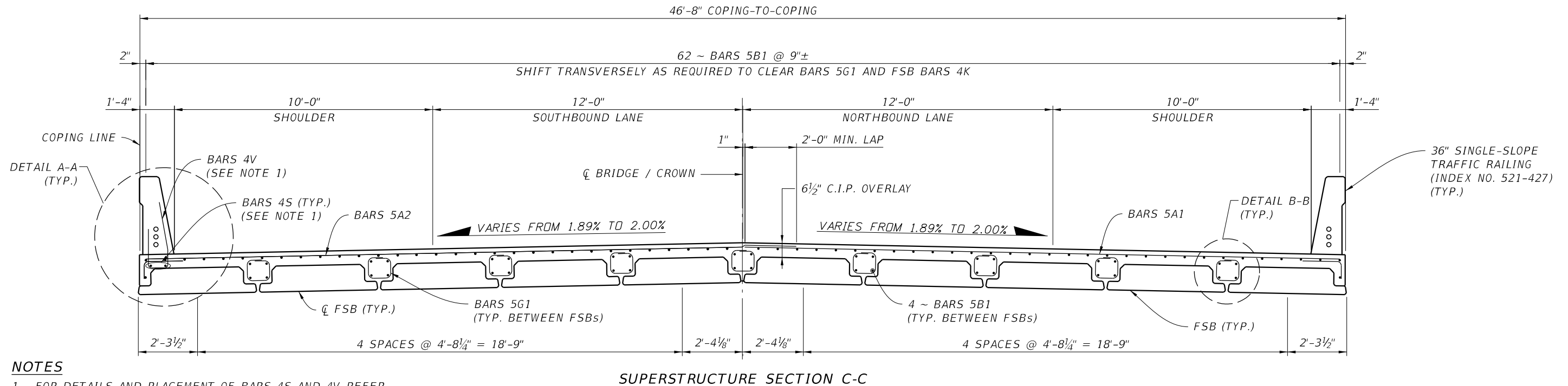
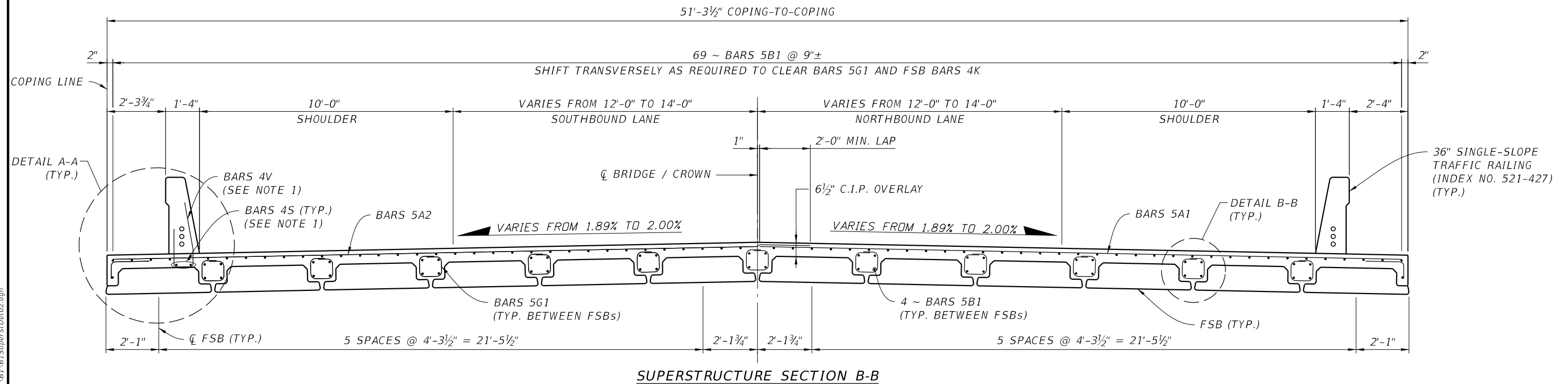
SCALE: 1/4"=1'
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**SUPERSTRUCTURE DETAILS
(1 OF 6)
SPANS 1 AND 2**

DESIGN FILE NAME: DRAWING NO.:

SHEET: B1-35
OF: 62 OF 95
PROJECT NO.
2019803

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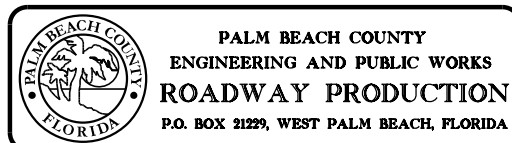
NOTES

1. FOR DETAILS AND PLACEMENT OF BARS 4S AND 4V REFER TO INDEX 521-427 INCLUDED IN THIS DRAWING SET.
2. SEE SUPERSTRUCTURE (SHEETS 3 AND 4 OF 5) FOR SECTION B-B AND SECTION C-C.
3. SEE SUPERSTRUCTURE DETAILS (3 OF 6) FOR DETAILS A-A AND B-B.

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INTERSECTION IMPROVEMENT AND BRIDGE
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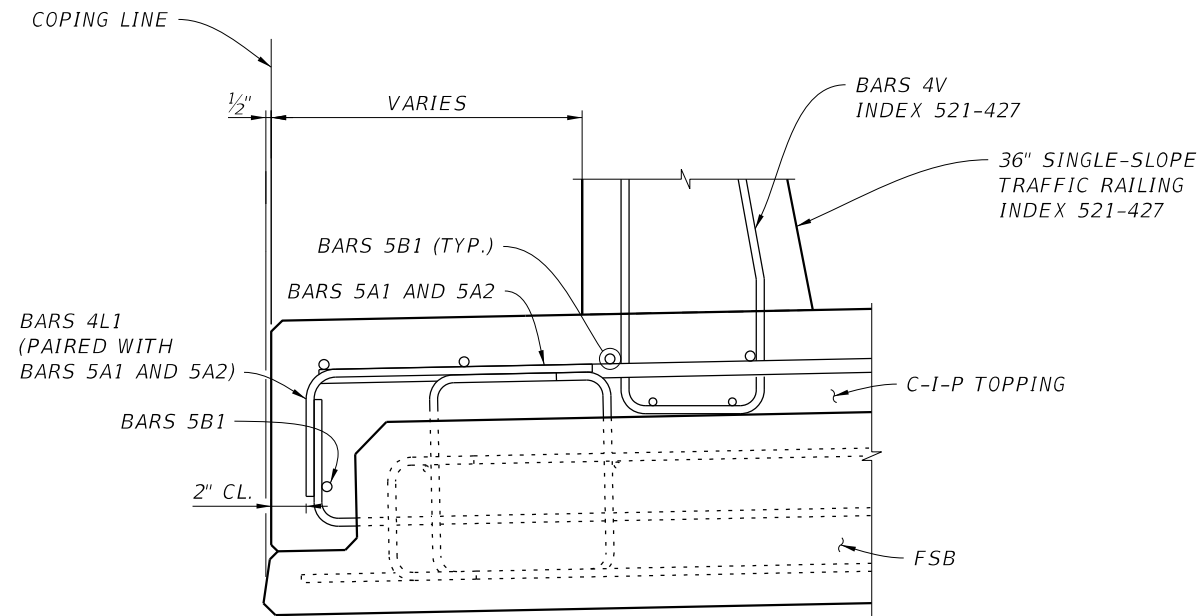
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DATE: 11/5/24

SUPERSTRUCTURE DETAILS
(2 OF 6)
SPANS 3 AND 4

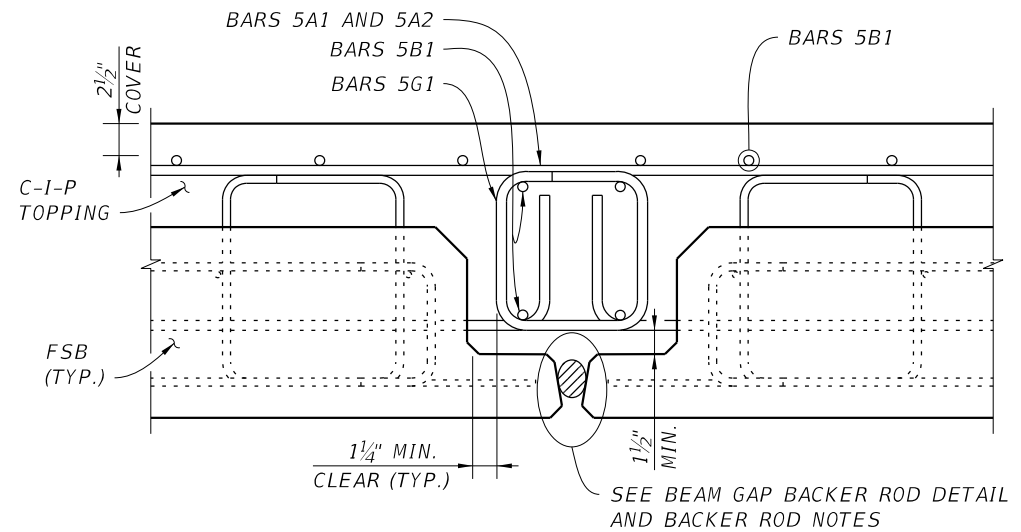
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SHEET: B1-36
OF: 63 OF 95
PROJECT NO.
2019803

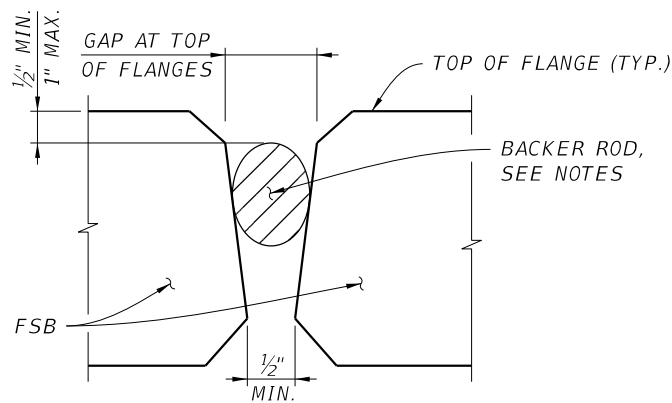
BRIDGE NO. 934000



DETAIL A-A
CONCRETE PARAPET AT COPINGS



DETAIL B-B
AT POCKETS



BEAM GAP BACKER ROD DETAIL

BEAM GAP BACKER ROD NOTES

1. USE A BACKER ROD TO FORM THE BOTTOM OF THE CAST IN PLACE TOPPING AT THE GAP BETWEEN ADJACENT FSBS. USE A BACKER ROD MEETING THE REQUIREMENTS OF ASTM C1330 OR ASTM D5249, TYPES 1 OR 3, WITH A MINIMUM UNCOMPRESSED DIAMETER 50% LARGER THAN THE FIELD VERIFIED MAXIMUM WIDTH OF THE GAP BETWEEN ADJACENT FSBS. MEASURE GAP AT THE TOP OF THE FLANGES AS SHOWN IN THE BACKER ROD DETAIL.
2. INSTALL THE BACKER ROD FROM THE TOP DOWN TO THE POSITION SHOWN IN THE BACKER ROD DETAIL.
3. SECURE THE BACKER ROD TO PREVENT DISPLACEMENT DURING TOPPING CONCRETE PLACEMENT AND TO BE MORTAR TIGHT USING A COMPATIBLE CONSTRUCTION ADHESIVE.
4. THE BACKER ROD MAY REMAIN IN PLACE AFTER TOPPING CONCRETE PLACEMENT.
5. SEE BRIDGE TYPICAL SECTIONS FOR BEAM GAP SPACING.

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CHECKED: E.H.
DATE: 11/5/24

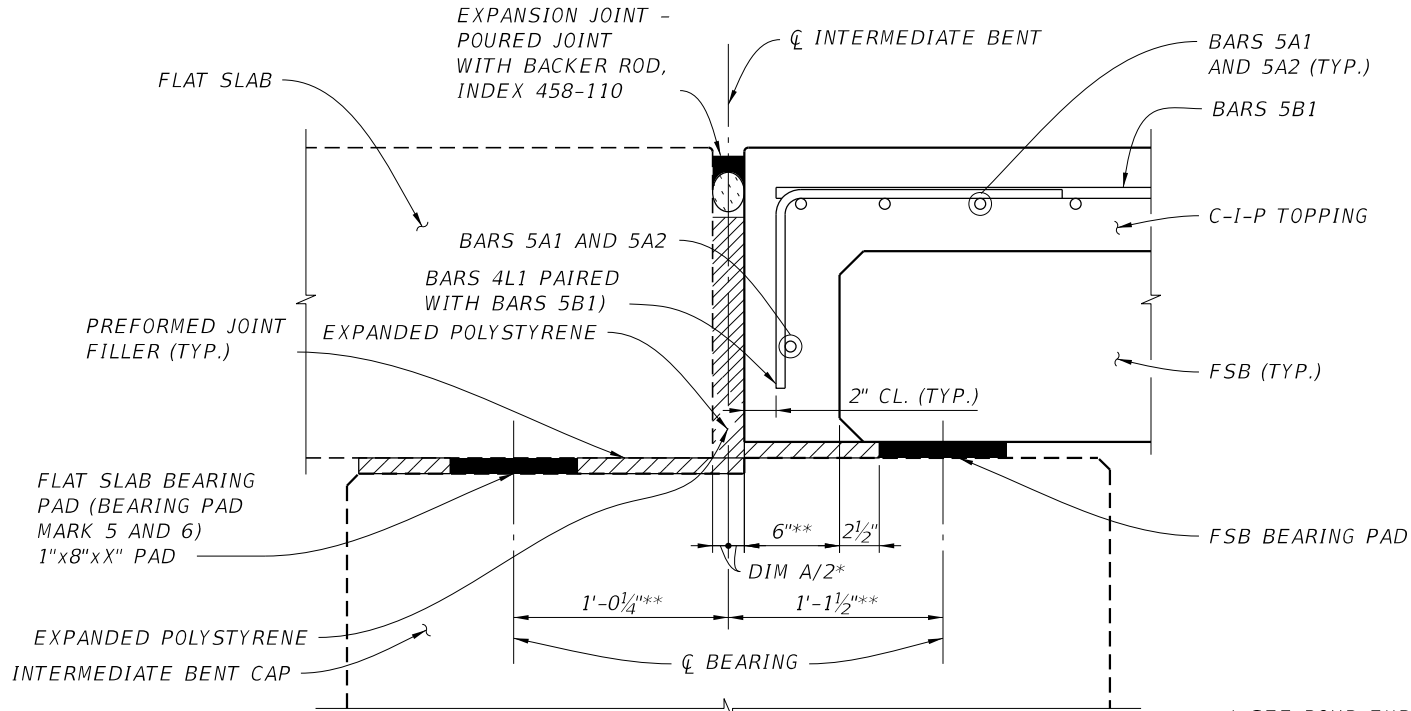
**SUPERSTRUCTURE DETAILS
(3 OF 6)
SPANS 3 AND 4**

DESIGN FILE NAME

DRAWING NO.

SHEET: B1-37
OF: 64 OF 95
PROJECT NO.
2019803

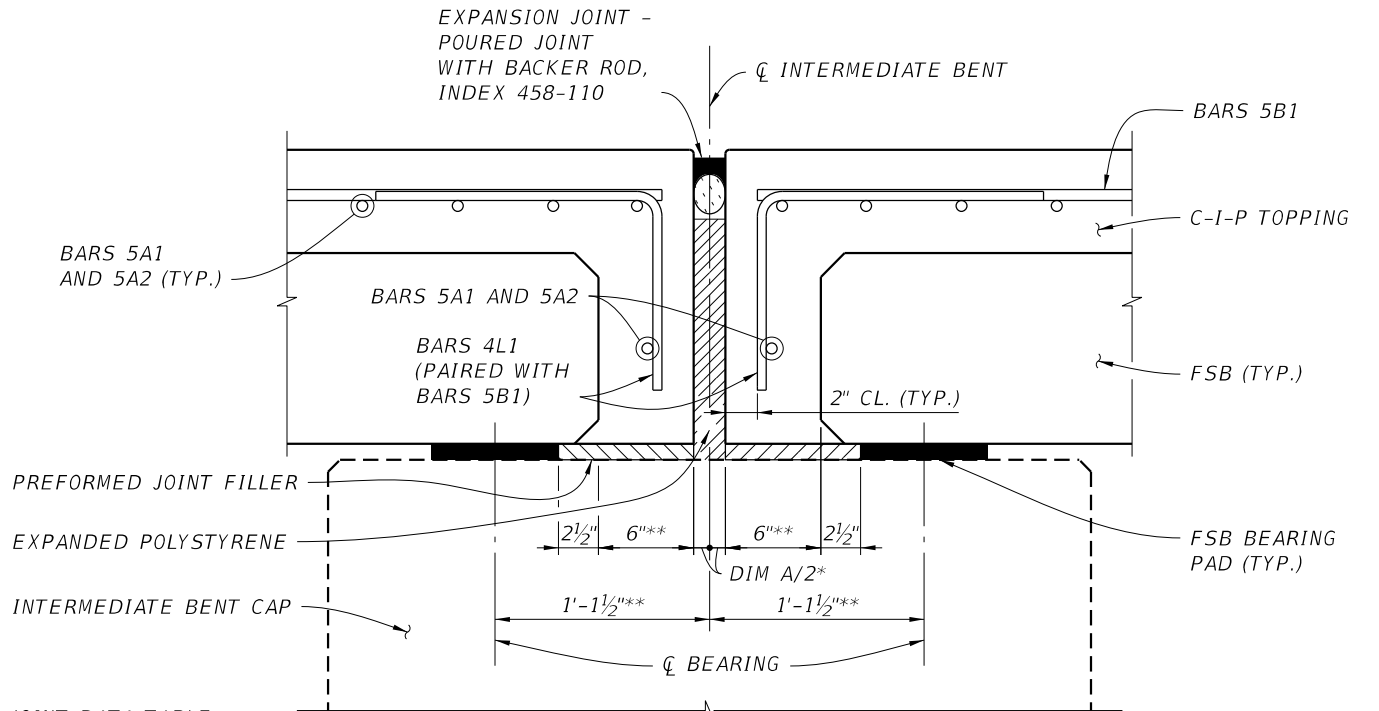
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DETAIL C-C

AT INTERMEDIATE BENT 3 ALONG ϕ BEAM
(INTERMEDIATE BENT 5 OPPOSITE HAND)
(REINFORCING WITHIN FSB NOT SHOWN FOR CLARITY)
(SEE SUPERSTRUCTURE DETAIL SHEET (5 OF 6) FOR FLAT SLAB BEARING DATA TABLE)

* SEE POUR EXPANSION JOINT DATA TABLE.
** MEASURED PERPENDICULAR TO BEAM END.



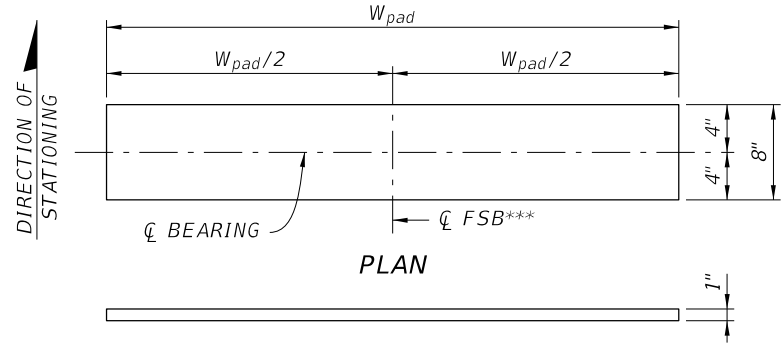
DETAIL D-D

AT INTERMEDIATE BENT 4 ALONG ϕ BEAM
(REINFORCING WITHIN FSB NOT SHOWN FOR CLARITY)

FSB BEARING PAD DATA TABLE			Table Date 8-15-23
SPAN NO.	BEAM NO.	BEARING PAD MARK	W_{pad} (in)
3	1 TO 12	1	50
4	1 TO 10	2	55

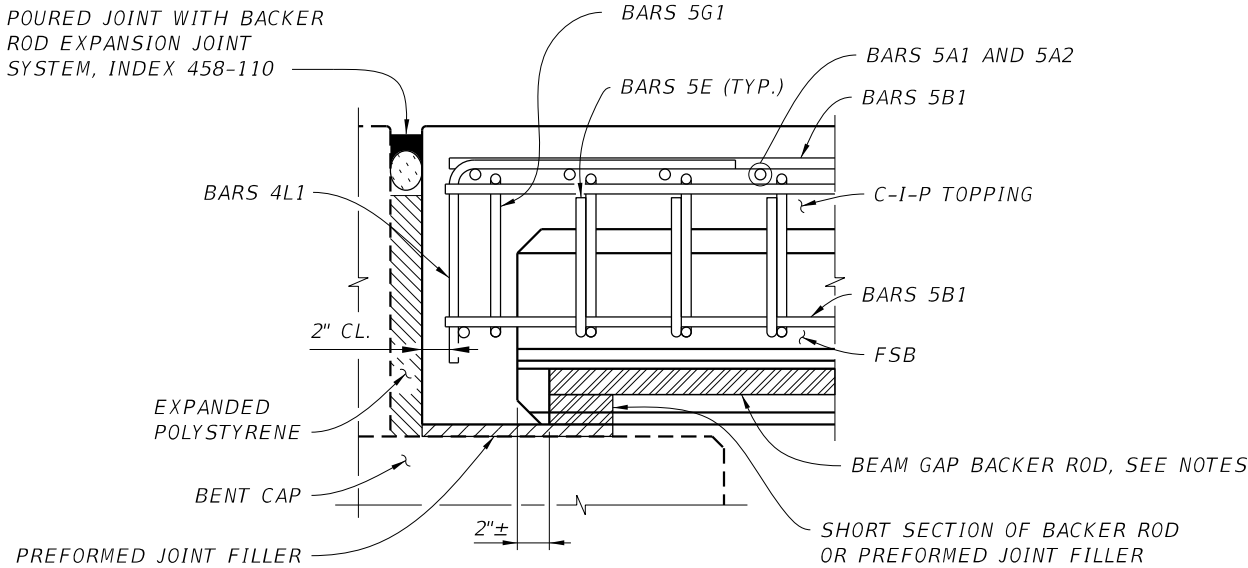
NOTES

1. PROVIDE PLAIN ELASTOMERIC BEARING PADS WITH A SHEAR MODULUS $G = 150$ PSI AND IN ACCORDANCE WITH SPECIFICATION 932.
2. THE CONTRACTOR MAY USE A SINGLE BEARING PAD WITH A WIDTH EQUAL TO FULL LENGTH OF PILE CAP INSTEAD OF INDIVIDUAL PADS.



ELEVATION
BEARING PAD DETAIL

*** $\theta = 90^\circ$ SHOWN;
 $60^\circ \leq \theta < 90^\circ$ SIMILAR



DETAIL E-E

ALONG ϕ POCKET AT SPAN ENDS
(INTERMEDIATE BENTS WITH EXPANSION JOINTS SHOWN)

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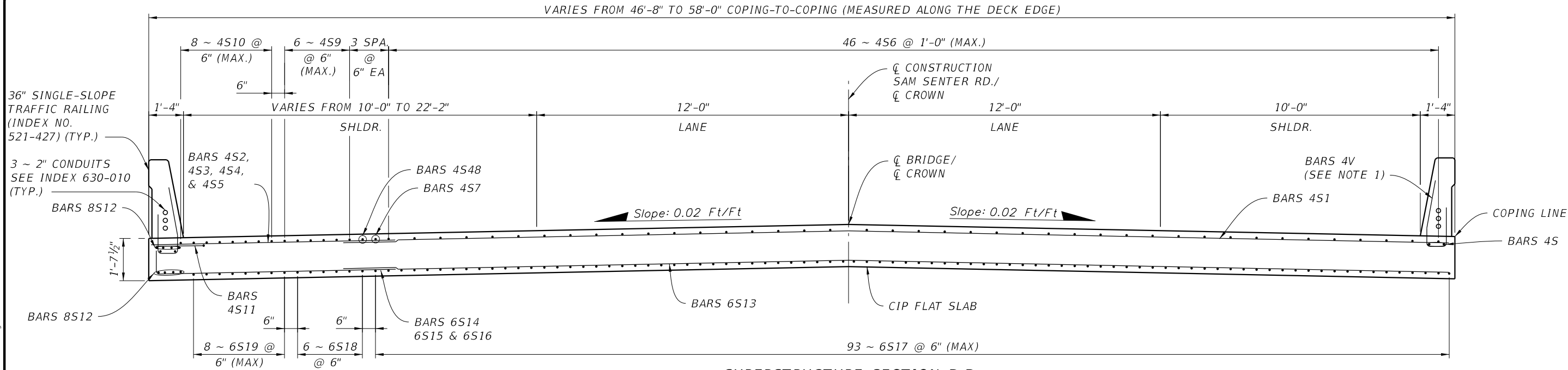
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APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

SUPERSTRUCTURE DETAILS
(4 OF 6)
SPANS 3 AND 4

DESIGN FILE NAME
DRAWING NO.

SHEET: B1-38
OF: 65 OF 95
PROJECT NO.
2019803

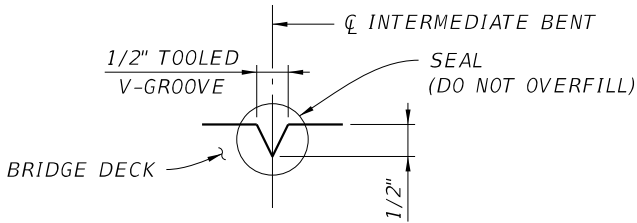
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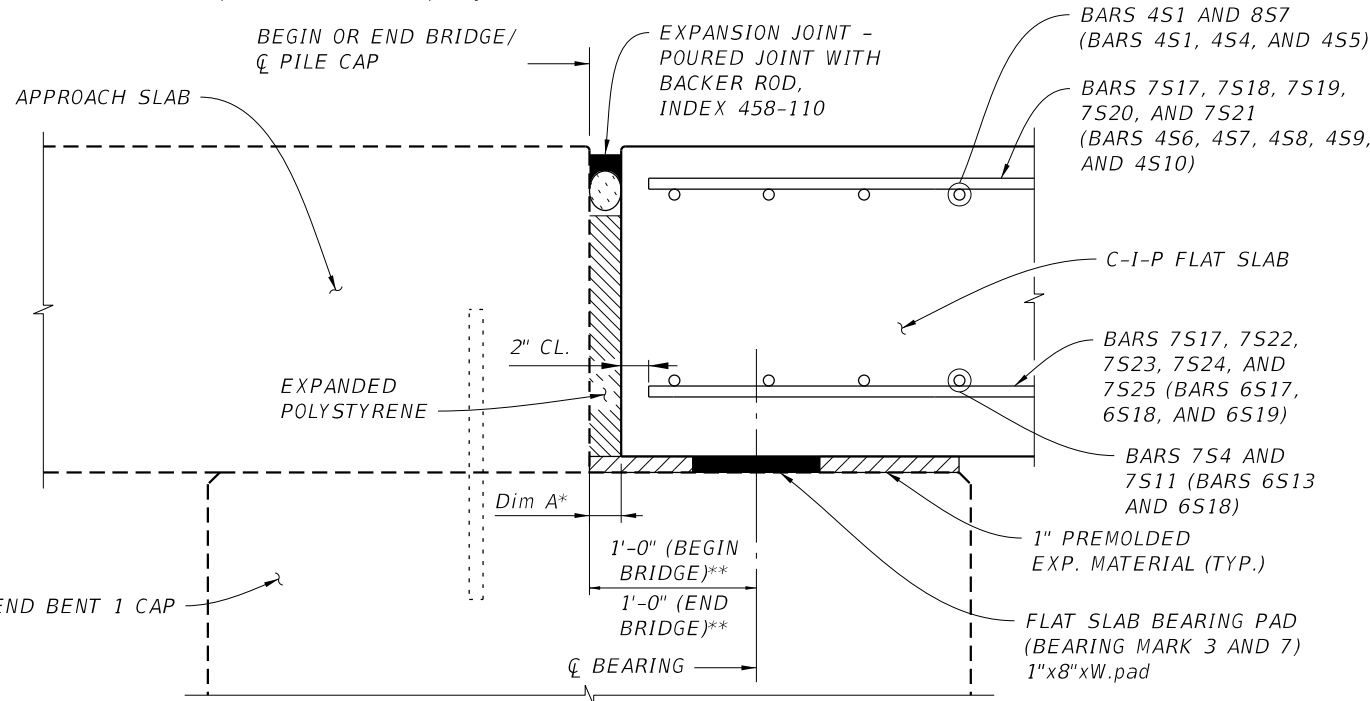
SUPERSTRUCTURE SECTION D-D

NOTES

- FOR DETAILS AND PLACEMENT OF BARS 4S AND 4V, REFER TO INDEX 521-427, INCLUDED IN THIS DRAWING SET.
- SEE SUPERSTRUCTURE (SHEET 5 OF 5) FOR SECTION D-D.
- BAR DESIGNATIONS IN PARENTHESES ARE FOR END BENT 6.

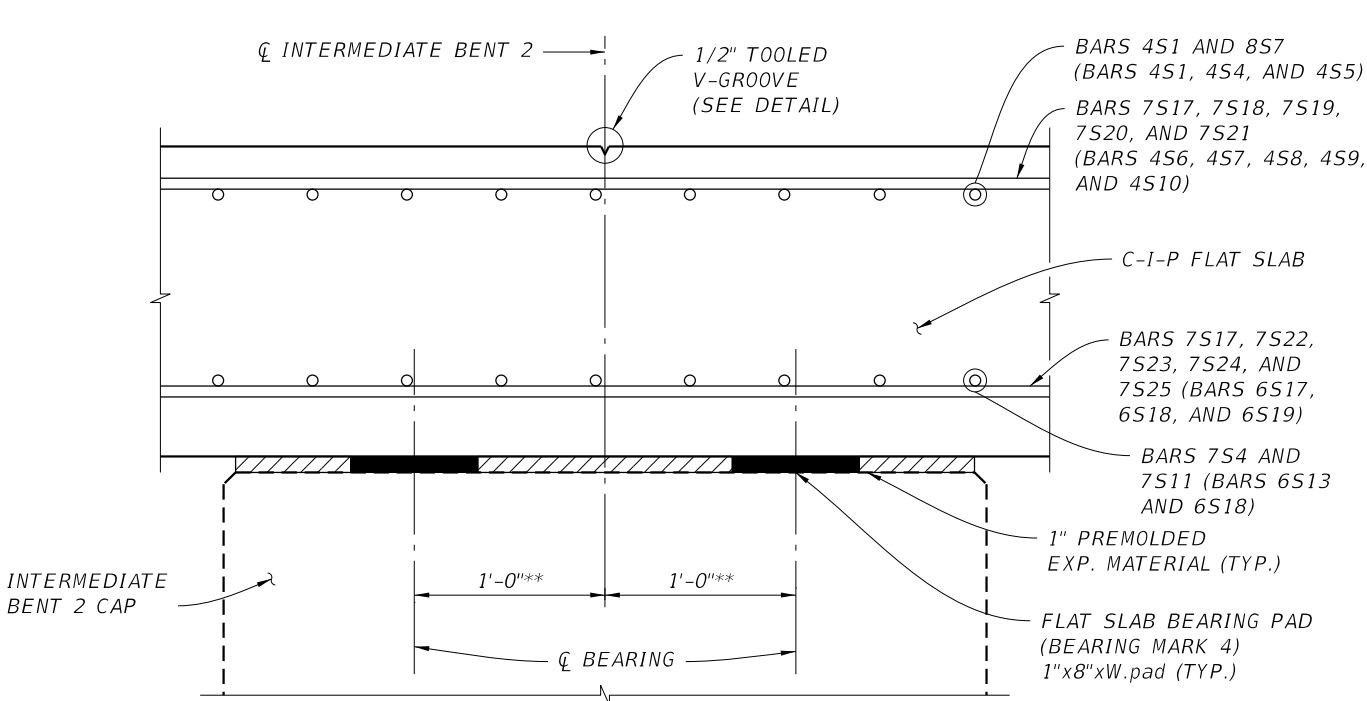


V-GROOVE JOINT DETAIL



DETAIL F-F

AT BEGIN/END BRIDGE ALONG CL FLAT SLAB
(END BENT 1 SHOWN - END BENT 6 OPPOSITE HAND)

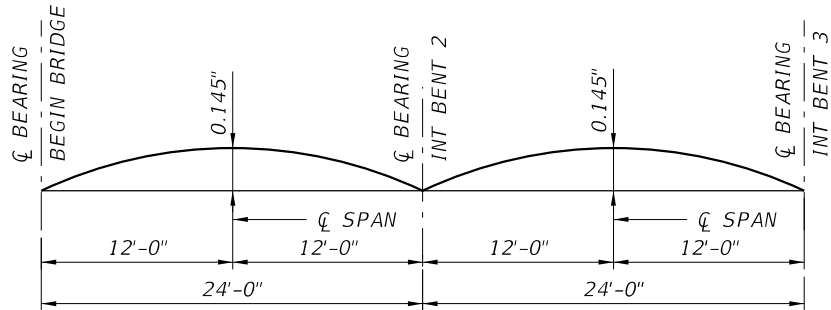


DETAIL G-G

* SEE POUR EXPANSION JOINT DATA TABLE.
** MEASURED PERPENDICULAR TO BEAM END.

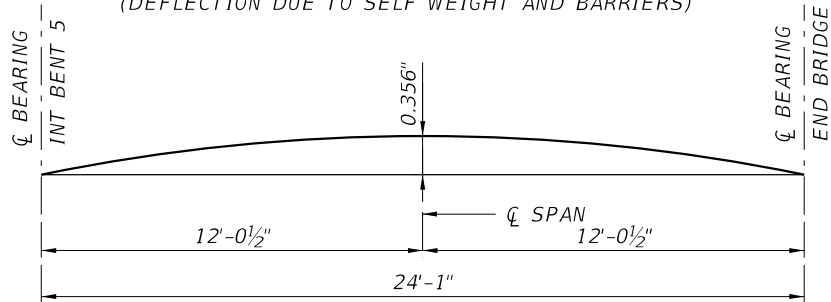
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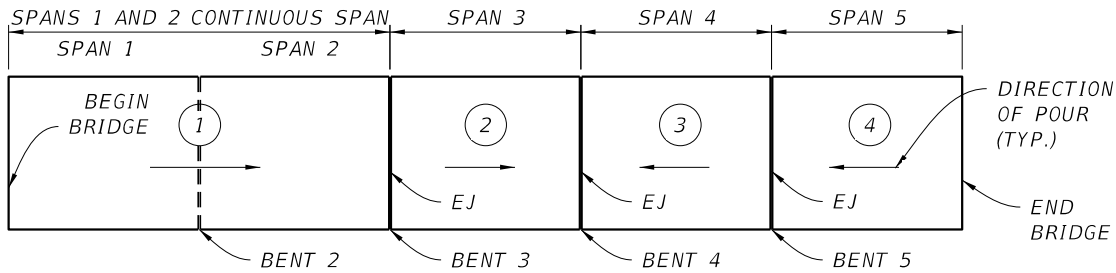
SPANS 1 AND 2 DEAD LOAD DEFLECTION DIAGRAM

(DEFLECTION DUE TO SELF WEIGHT AND BARRIERS)



SPAN 5 DEAD LOAD DEFLECTION DIAGRAM

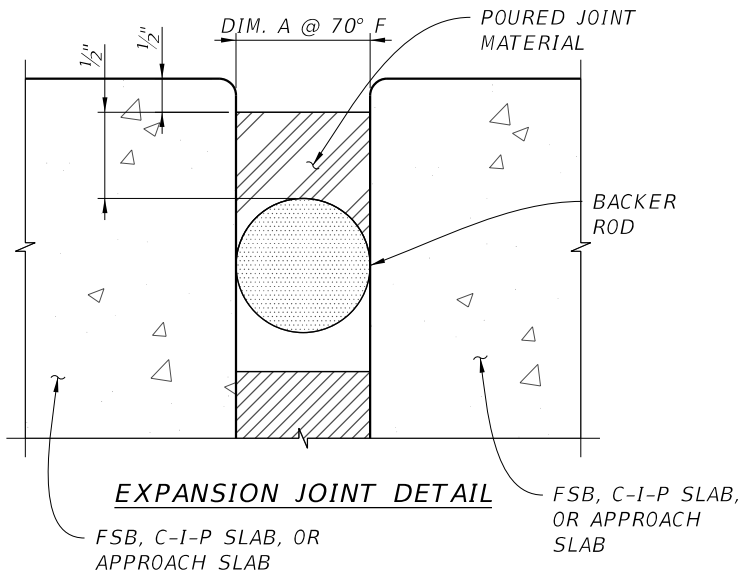
(DEFLECTION DUE TO SELF WEIGHT AND BARRIERS)



DECK POURING SEQUENCE

② = POUR SEQUENCE NUMBER

DECK POURING SEQUENCE NOTE:
A MINIMUM OF 72 HOURS IS REQUIRED BETWEEN ADJACENT POURS IN THE CONTINUOUS UNIT.



EXPANSION JOINT DETAIL

POURED EXPANSION JOINT DATA TABLE INDEX 458-110				Table Date 8-25-23
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DIM. "A" ADJUSTMENT PER 10°F	
END BENT 1	2"	3/8"	0.0311"	
INT BENT 3	2"	5/8"	0.0469"	
INT BENT 4	2"	3/8"	0.0261"	
INT BENT 5	2"	1/4"	0.0208"	
END BENT 6	2"	1/8"	0.0104"	
NOTE: Dim. "A" adjustment per 10°F shown is measured perpendicular to CL Expansion Joint. Work this table with Standard Plans Index 458-110.				

FLAT SLAB BEARING PAD DATA TABLE

Table Date 8-27-24

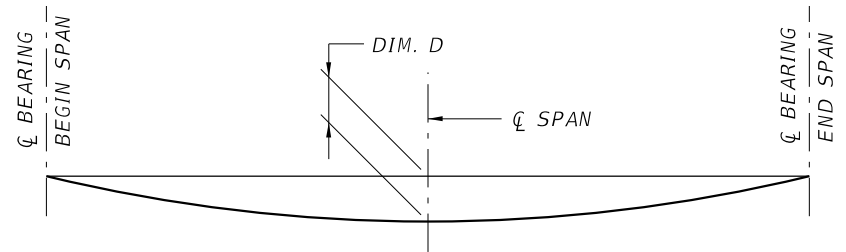
BENT NO.	BEARING PAD MARK	W _{pad} (in)
1	3	123'-4 3/8"
2	4	73'-4 7/8"
3	5	51'-4"
5	6	46'-8"
6	7	57'-3 1/8"

NOTE

1. PROVIDE PLAIN ELASTOMERIC BEARING PADS WITH A SHEAR MODULUS G = 150 PSI AND IN ACCORDANCE WITH SPECIFICATION 932.

CAMBER NOTE - SPANS 3 AND 4

THE VALUES GIVEN IN THE TABLE ARE BASED ON THEORETICAL BEAM CAMBERS. THE CONTRACTOR SHALL MONITOR BEAM CAMBERS FOR THE PURPOSE OF PREDICTING CAMBER VALUES AT THE TIME OF THE TOPPING CASTING. IF THE PREDICTED CAMBERS BASED ON FIELD MEASUREMENTS DIFFER MORE THAN ± 1" FROM THE THEORETICAL "NET BEAM CAMBER @ 120 DAYS" SHOWN IN THE TABLE, PROPOSE MODIFIED DIMENSIONS AS REQUIRED AND SUBMIT TO THE ENGINEER FOR APPROVAL A MINIMUM OF 21 DAYS PRIOR TO CASTING TOPPING CONCRETE.



SPANS 3 AND 4 DEAD LOAD DEFLECTION DIAGRAM

CAMBER AND DEFLECTION DATA TABLE
FOR FLORIDA SLAB BEAMS

Table Date 8-25-23

LOCATION		NET BEAM CAMBER (PRESTRESS - DEAD LOAD OF BEAM) @ RELEASE (in.)	NET BEAM CAMBER (PRESTRESS - DEAD LOAD OF BEAM) @ 120 DAYS (in.)	DIM. D DEAD LOAD DEFLECTION DUE TO TOPPING CASTING @ 120 DAYS (in.)
SPAN NO.	BEAM NO.			
3	1-12	0.5669	1.3183	-0.4478
4	1-10	0.2263	0.5021	-0.0693

ESTIMATED QUANTITIES FOR BRIDGE SUPERSTURCTURE - SPAN 3

ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure) - Overlay	CY	53
Reinforcing Steel (Substructure)	LB	13212
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	73
Plain Neoprene Pads - 8"x1"	CF	6
Expansion Joints - Poured Joint with Backer Rod	LF	52

1. Quantities are for Span 3.
2. Quantities for Plain Neoprene pads are per bearing line.
3. Quantities for Expansion Joints are per joint.
4. Concrete quantities includes the quantities for the diaphragms, copings, and overlay pockets.

ESTIMATED QUANTITIES FOR BRIDGE SUPERSTURCTURE - SPAN 4

ITEM	UNIT	QUANTITY
Class II Concrete (Superstructure) - Overlay	CY	31
Reinforcing Steel (Substructure)	LB	7472
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	48
Plain Neoprene Pads - 8"x1"	CF	6
Expansion Joints - Poured Joint with Backer Rod	LF	94

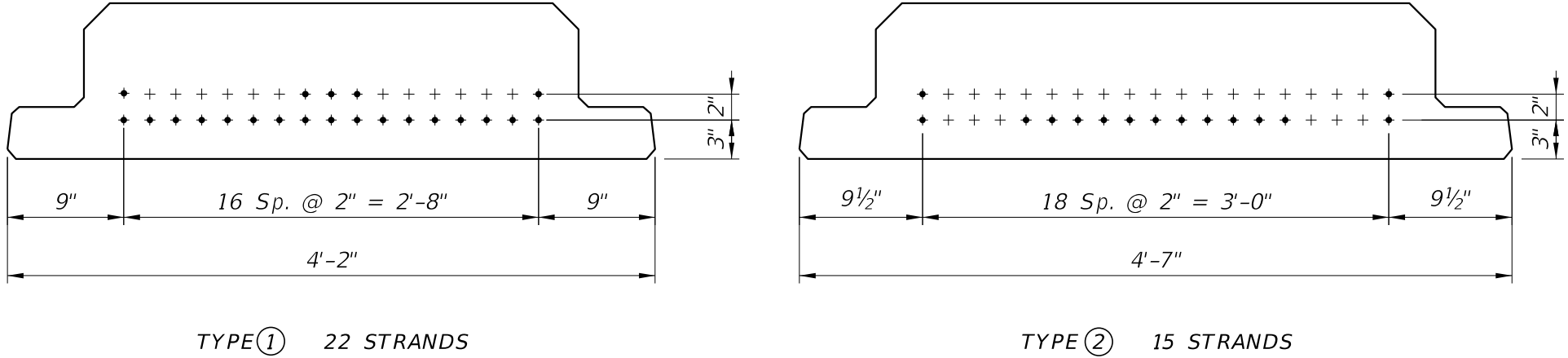
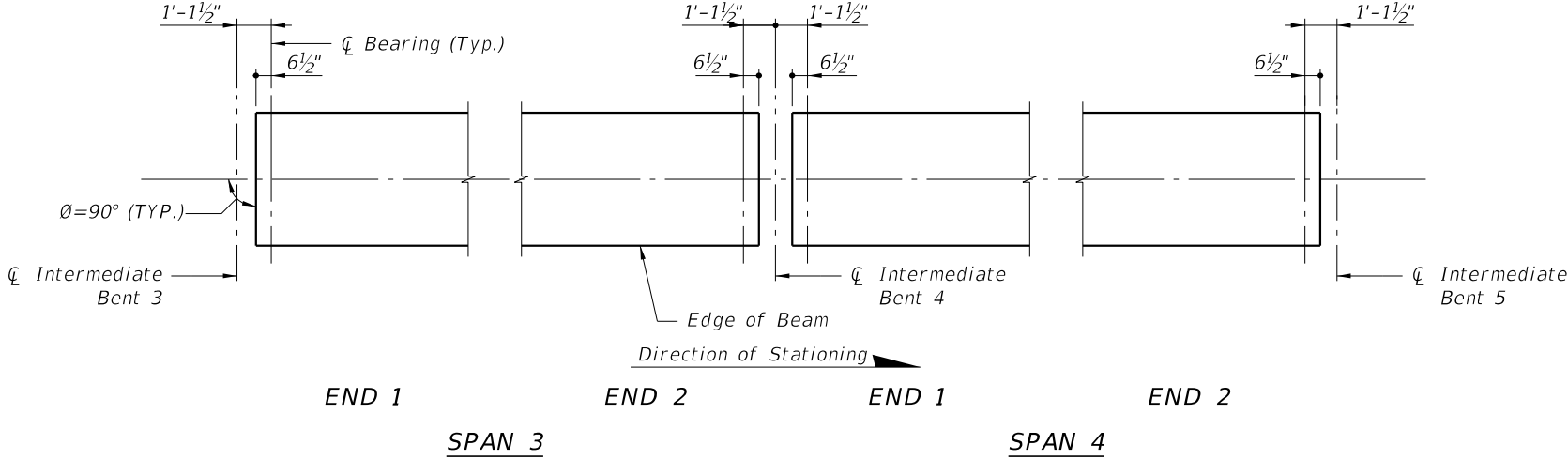
1. Quantities are for Span 4.
2. Quantities for Plain Neoprene pads are per bearing line.
3. Quantities for Expansion Joints are per joint.
4. Concrete quantities includes the quantities for the diaphragms, copings, and overlay pockets.

BRIDGE NO. 934000

11/6/2024 3:42:33 PM \\stanleygroup.com\gis\projects\Palm_Beach_County\29777.01\11-CADD\01-plans\struct\B1-B1Data\table01.dgn

FLORIDA SLAB BEAM - TABLE OF VARIABLES																											Table Date 12-01-22				
LOCATION		BEAM TYPE	CONCRETE PROPERTIES			STND. PTRN.	PLAN VIEW CASE		ANGLE Ø		BEAM DIMENSIONS*			REINFORCING STEEL																	
SPAN NO.	BEAM NO.		CLASS	STRENGTHS (psi)			TYPE	END 1	END 2	END 1	END 2	DIM W	DIM L	DIM R	3C		4D1	4D2	4D3		5E1		5E2		6Y1	6Y2	4K	NO. OF BAR SPACES (4K)		BAR SPACING (4K) *	
				28 Day	Release										NO.	DIM C	DIM D	DIM D	NO.	DIM E	NO.	DIM E	DIM Y	DIM Y	NO.	S1	S2	V1	V2		
3	1	FSB 12x50	V1	8500	6000	1	1	1	90	90	4'-2"	35'-4 ³ / ₈ "	⁷ / ₁₆ "	36	3'-9 ¹ / ₂ "	2'-1"	2'-1"	32	2'-1"	-	-	70	3'-10 ¹ / ₂ "	2'-9 ¹ / ₂ "	2'-9 ¹ / ₂ "	104	6	5	24	12	
3	2-11	FSB 12x50	V1	8500	6000	1	1	1	90	90	4'-2"	35'-4 ³ / ₈ "	⁷ / ₁₆ "	36	3'-9 ¹ / ₂ "	2'-1"	2'-1"	32	2'-1"	70	4'-6"	-	-	2'-9 ¹ / ₂ "	2'-9 ¹ / ₂ "	104	6	5	24	12	
3	12	FSB 12x50	V1	8500	6000	1	1	1	90	90	4'-2"	35'-4 ³ / ₈ "	⁷ / ₁₆ "	36	3'-9 ¹ / ₂ "	2'-1"	2'-4"	32	2'-1"	-	-	70	3'-10 ¹ / ₂ "	2'-9 ¹ / ₂ "	2'-9 ¹ / ₂ "	104	6	5	24	12	
4	1	FSB 12x55	V1	8500	6000	2	1	1	90	90	4'-7"	22'-10 ¹ / ₄ "	¹ / ₄ "	68	4'-2 ¹ / ₂ "	2'-3 ¹ / ₂ "	2'-3 ¹ / ₂ "	20	2'-3 ¹ / ₂ "	-	-	44	4'-3 ¹ / ₂ "	3'-2 ¹ / ₂ "	3'-2 ¹ / ₂ "	128	8	6	10	8	
4	2-9	FSB 12x55	V1	8500	6000	2	1	1	90	90	4'-7"	22'-10 ¹ / ₄ "	¹ / ₄ "	68	4'-2 ¹ / ₂ "	2'-3 ¹ / ₂ "	2'-3 ¹ / ₂ "	20	2'-3 ¹ / ₂ "	44	4'-5"	-	4'-3 ¹ / ₂ "	3'-2 ¹ / ₂ "	3'-2 ¹ / ₂ "	128	8	6	10	8	
4	10	FSB 12x55	V1	8500	6000	2	1	1	90	90	4'-7"	22'-10 ¹ / ₄ "	¹ / ₄ "	68	4'-2 ¹ / ₂ "	2'-3 ¹ / ₂ "	2'-3 ¹ / ₂ "	20	2'-3 ¹ / ₂ "	-	-	44	4'-3 ¹ / ₂ "	3'-2 ¹ / ₂ "	3'-2 ¹ / ₂ "	128	8	6	10	8	

NOTE: Work this sheet with Standard Plans Index 450-450 and 450-451.



STRAND DEBONDING LEGEND

- fully bonded strands.

NOTE: On beams with skewed ends the debonded length shall be measured along the debonded strand.

DIMENSION NOTES

* All longitudinal beam dimensions shown on this sheet with a single asterisk (*) are measured along the centerline. Dimension "R" is calculated at mid-height of the beam.

STRAND DESCRIPTION: Use 0.60 Diameter, Grade 270, Low Relaxation Carbon Steel Strands stressed at 44 kips each. Area per strand equals 0.217 sq. in.

STRAND PATTERNS

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
REPLACEMENT**

NO.	REVISION	BY	DATE



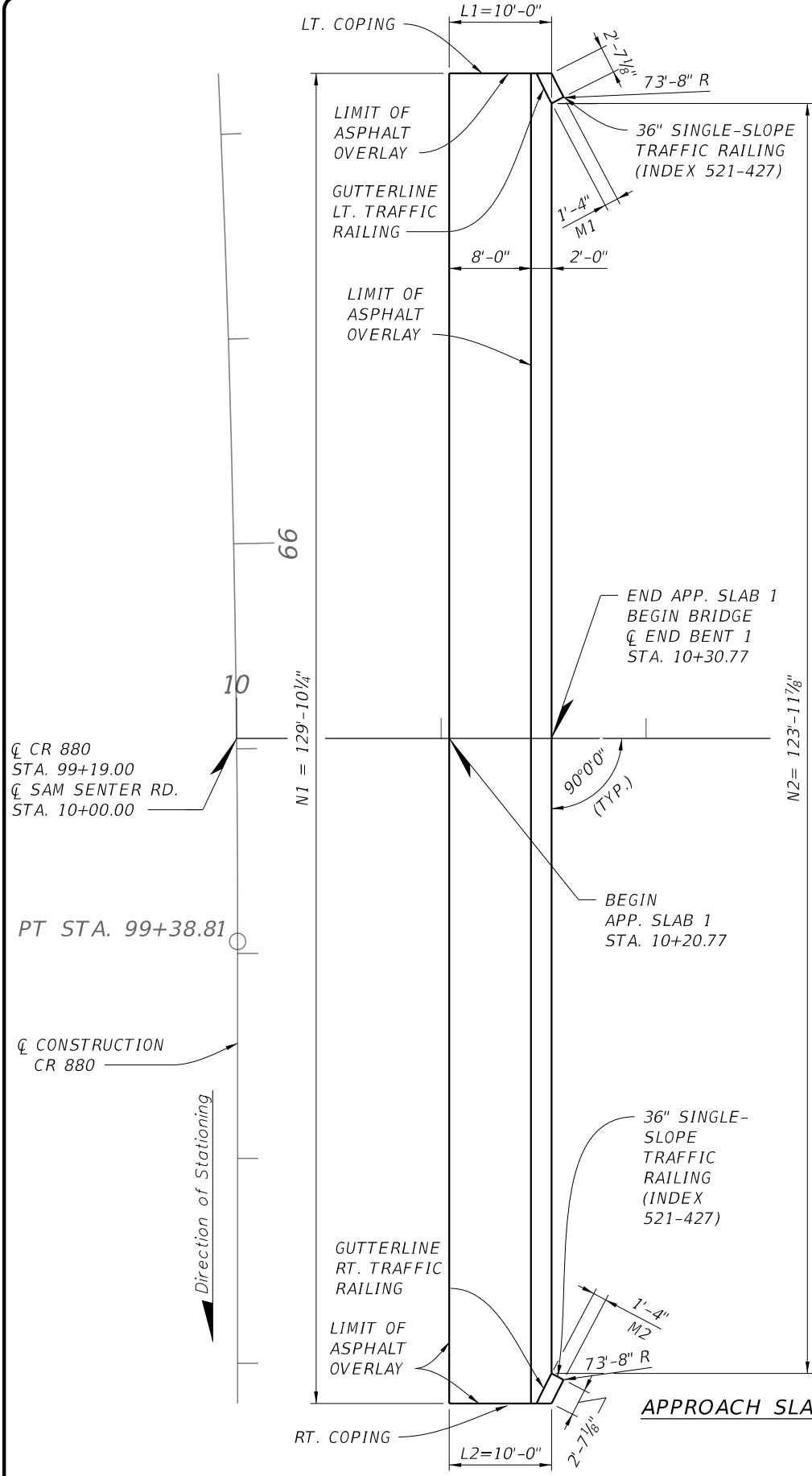
PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: 1"=1'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

BEAM DETAILS DATA TABLE	
DESIGN FILE NAME	DRAWING NO.

SHEET: B1-41
OF: 68 OF 95
PROJECT NO. 2019803

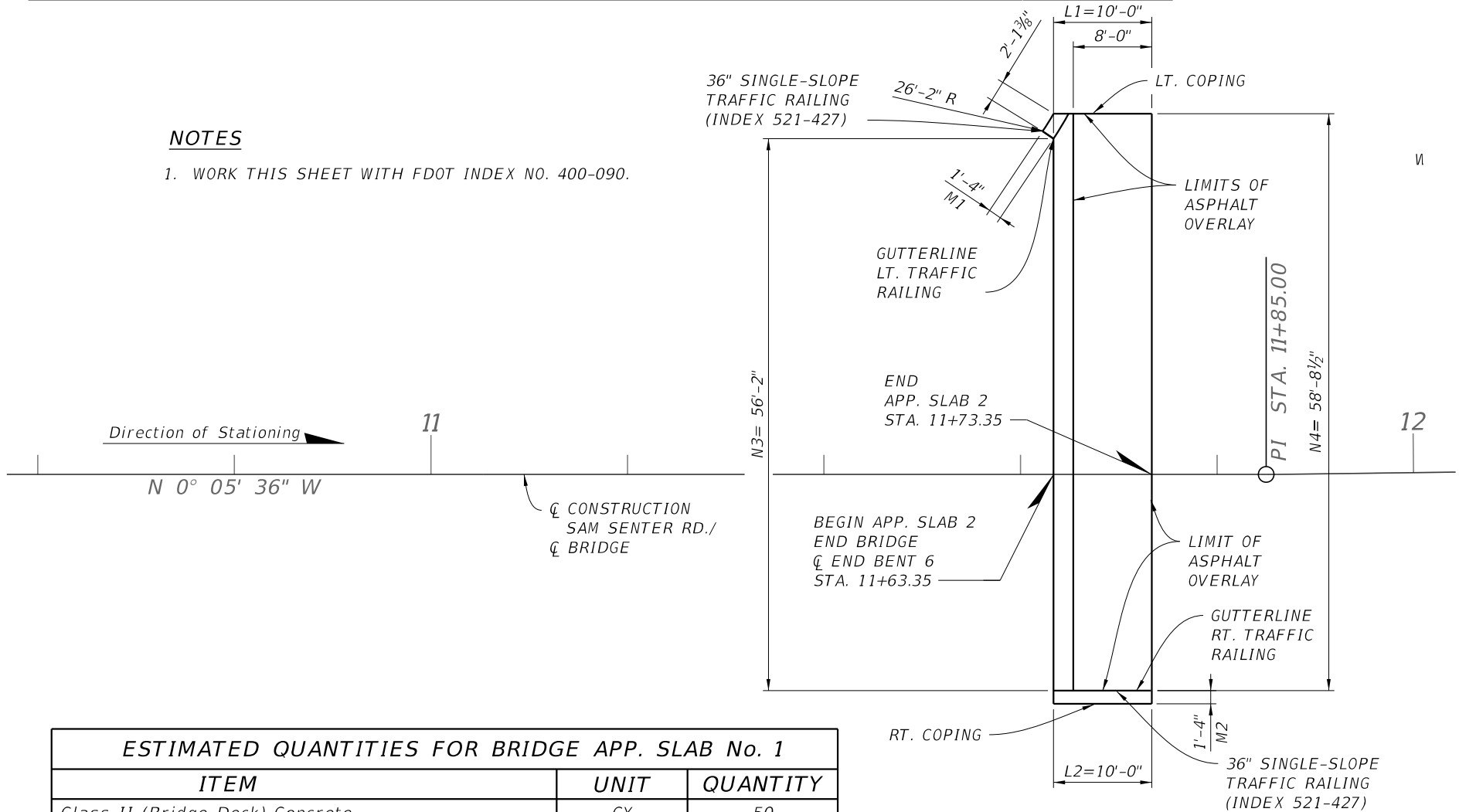
\\stanleygroup.com\projects\palm_beach_county\29777.01\11-CADD\01-plans\struct\B1-BIApproachSlab01.dgn 11/6/2024 3:47:50 PM 8203



APPROACH SLAB TABLE OF DIMENSIONS									Table Date 8-20-23
LOCATION	DIMENSIONS								ANGLE Ø
	L1	L2	M1	M2	N1	N2	N3	N4	
Approach Slab 1	10'-0"	10'-0"	1'-4"	1'-4"	129'-10 1/4"	123'-11 3/4"	N/A	N/A	90° 0' 0"
Approach Slab 2	10'-0"	10'-0"	1'-4"	1'-4"	N/A	N/A	56'-2 1/8"	58'-8 1/2"	90° 0' 0"
Dimension Notes: Dimensions L1 & L2 are measured along gutter line and inside face of railing on raised sidewalks.									

NOTES

1. WORK THIS SHEET WITH FDOT INDEX NO. 400-090.



ESTIMATED QUANTITIES FOR BRIDGE APP. SLAB No. 1		
ITEM	UNIT	QUANTITY
Class II (Bridge Deck) Concrete	CY	50
Reinforcing Steel	CY	8758
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	7

ESTIMATED QUANTITIES FOR BRIDGE APP. SLAB No. 2		
ITEM	UNIT	QUANTITY
Class II (Bridge Deck) Concrete	CY	23
Reinforcing Steel	CY	4395
Concrete Traffic Railing, Bridge (36" Single-Sloped)	LF	13

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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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"=15'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

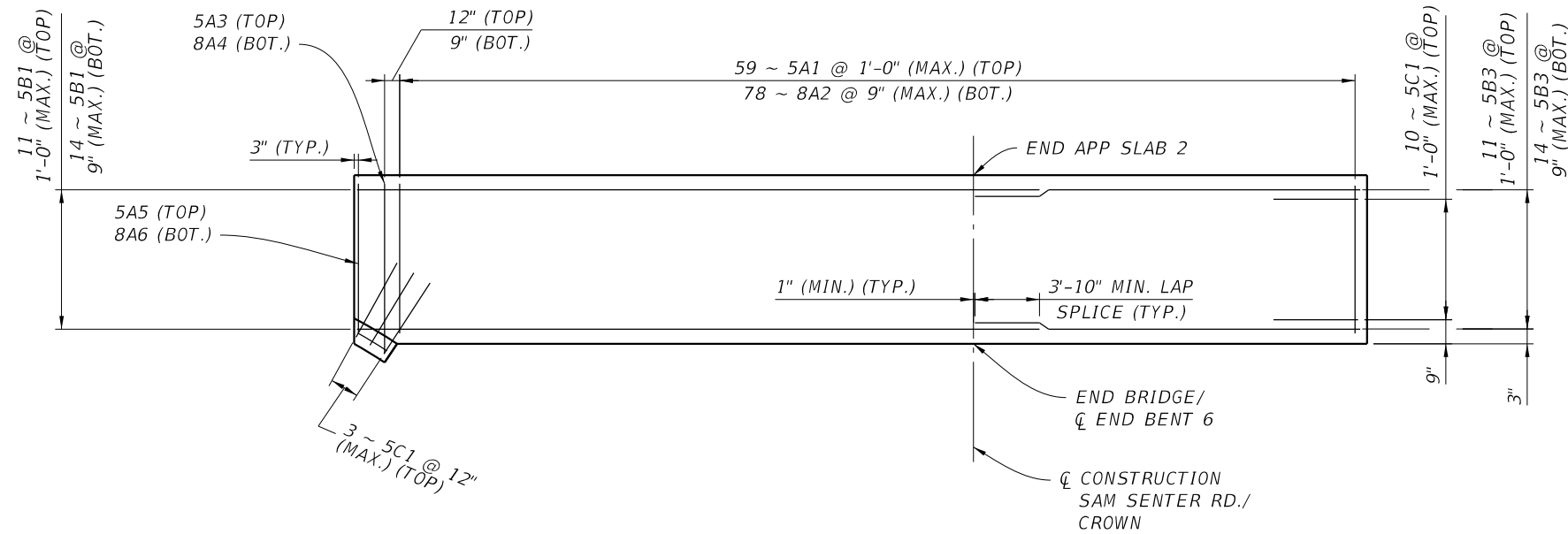
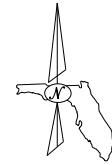
**APPROACH SLAB
(1 OF 2)**

DESIGN FILE NAME: DRAWING NO.:

SHEET: BI-42
OF: 69 OF 95
PROJECT NO. 2019803

BRIDGE NO. 934000

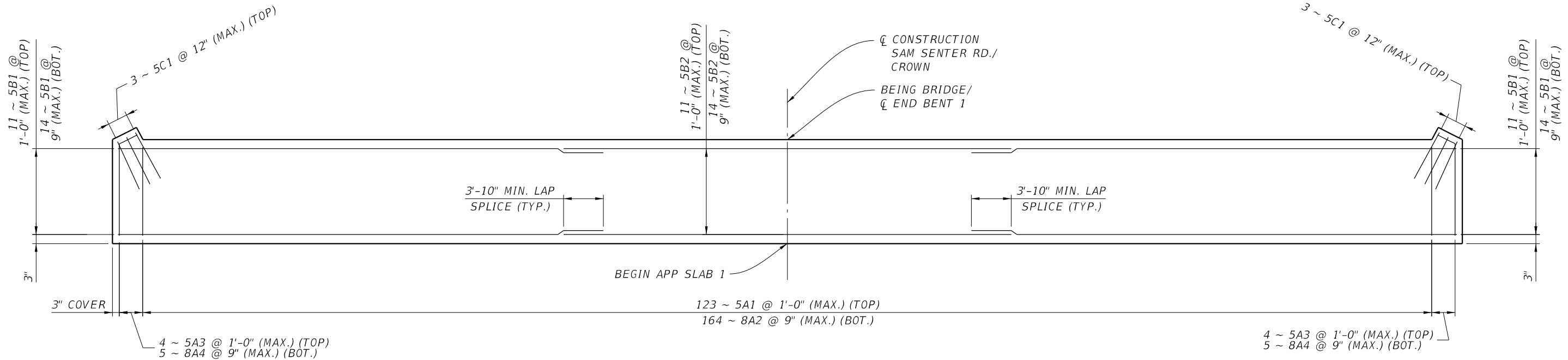
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APPROACH SLAB 2 PLAN - REINFORCEMENT DETAILS

NOTES

1. WORK THIS SHEET WITH FDOT INDEX NO. 400-090.
2. TRAFFIC RAILING NOT SHOWN FOR CLARITY.



APPROACH SLAB 1 PLAN - REINFORCEMENT DETAILS

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
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**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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: S.S.
CHECKED: E.H.
DATE: 11/5/24

**APPROACH SLAB
(2 OF 2)**

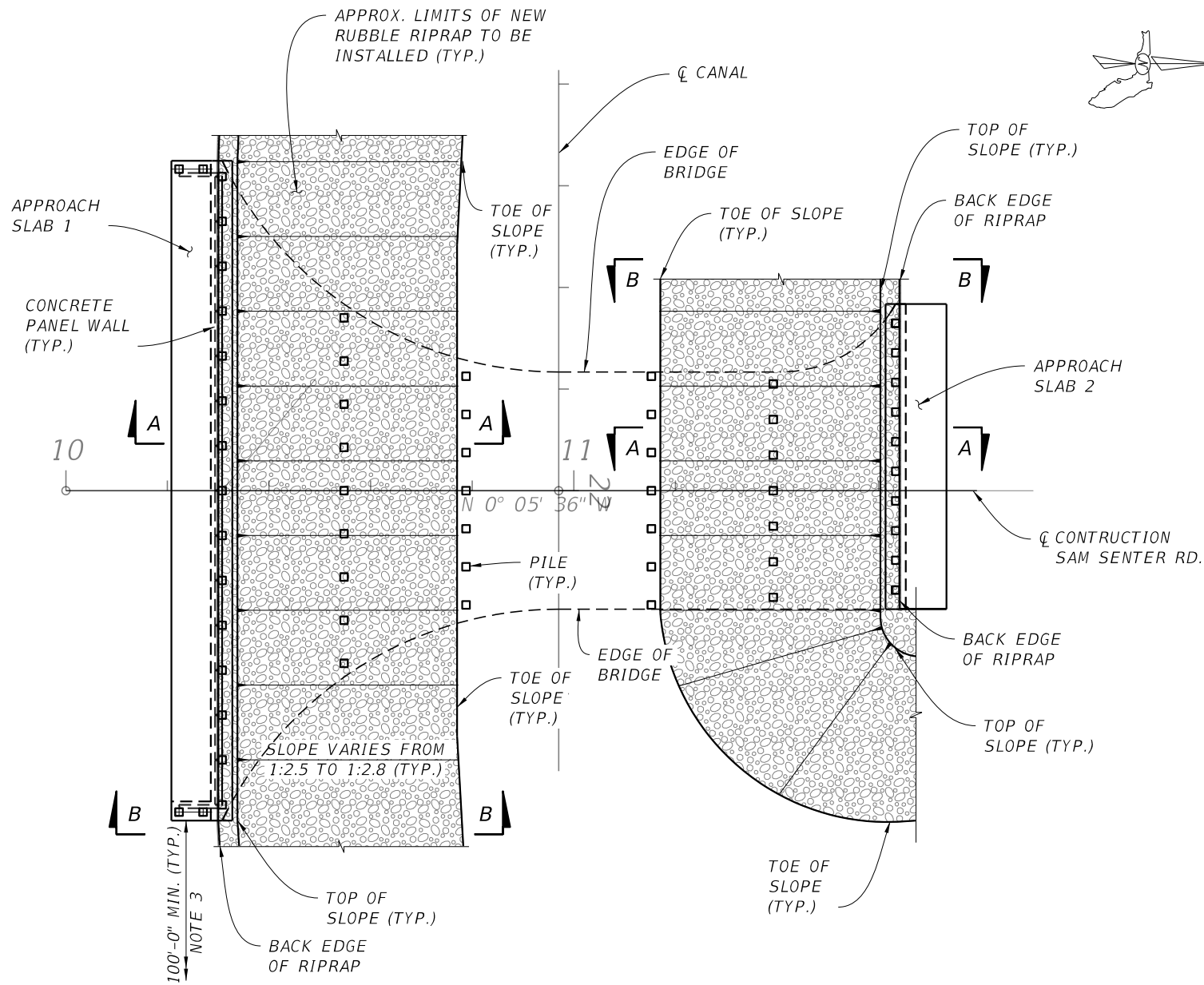
DESIGN FILE NAME

DRAWING NO.

SHEET: B1-43
OF: 70 OF 95
PROJECT NO.
2019803

BRIDGE NO. 934000

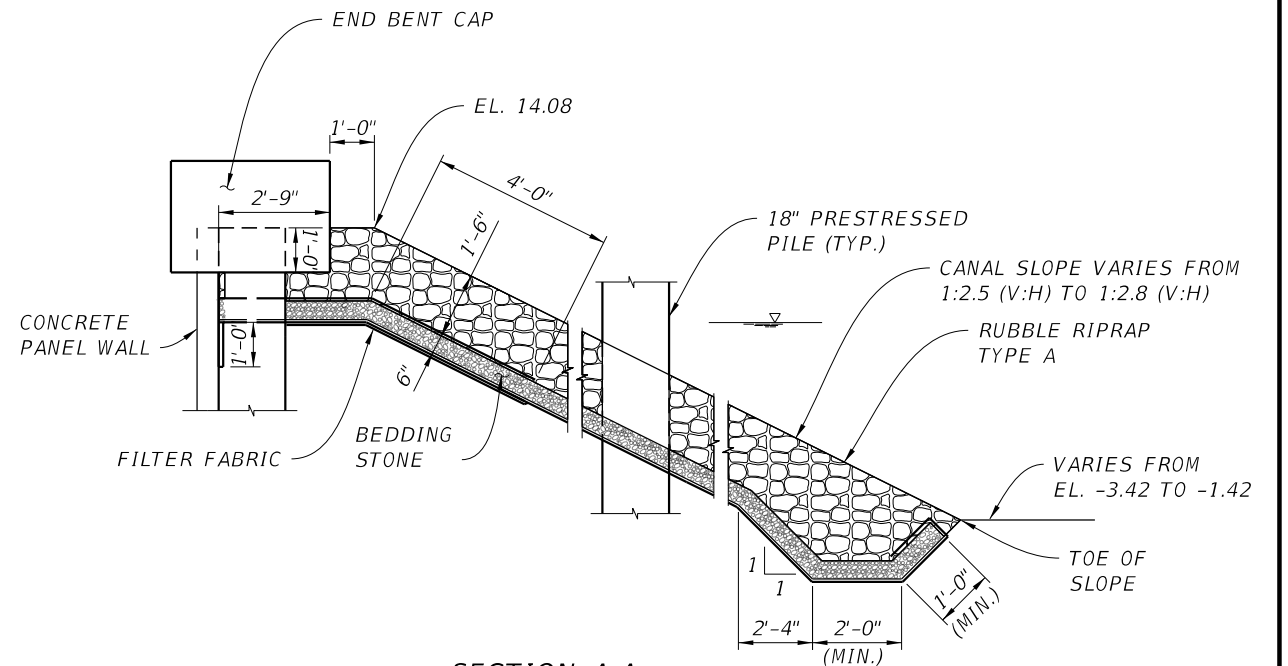
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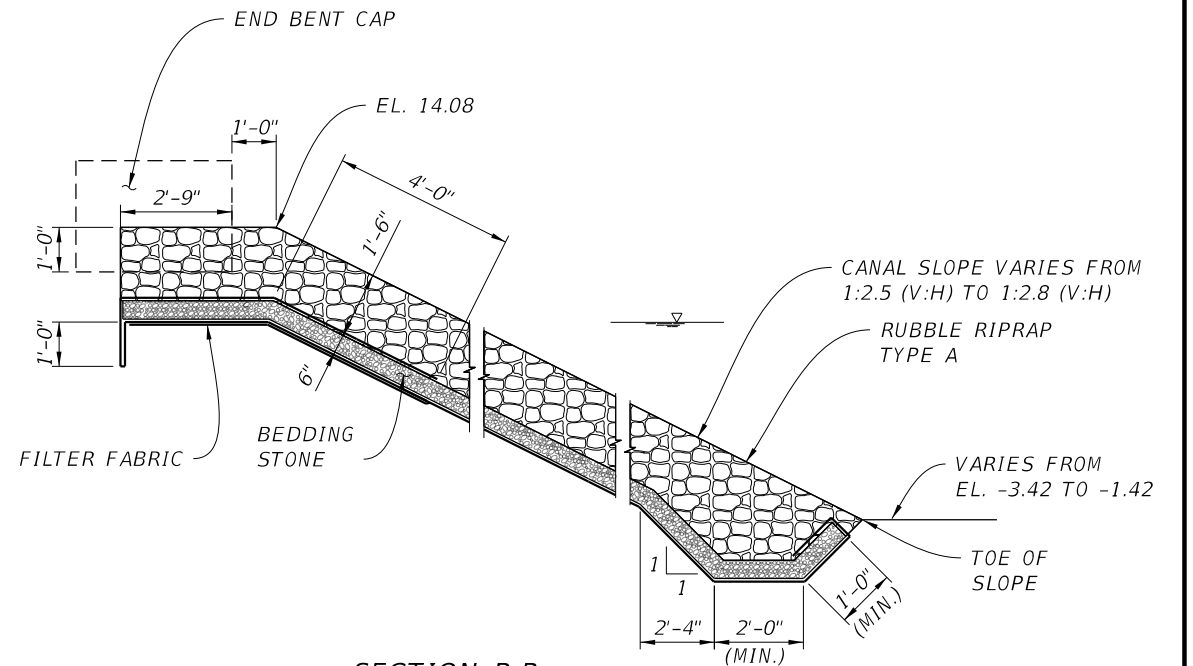
PLAN VIEW - SLOPE PROTECTION
(SEE ROADWAY PLANS FOR EXTENTS OF SLOPE PROTECTION BEYOND BRIDGE)

NOTES

1. EXCAVATION AND BACKFILLING SHALL BE PERFORMED PER SFWMD STANDARD SPECIFICATION SECTION 02220 - EXCAVATION AND BACKFILLING
2. THE RUBBLE RIPRAP IS TO BE INSTALLED PER SFWMD STANDARD SPECIFICATION SECTION 02370 - RIPRAP SYSTEM.
3. RUBBLE RIPRAP TO EXTEND 100'-0" UPSTREAM AND DOWNSTREAM OF BRIDGE.
4. SEE ROADWAY PLANS FOR RIPRAP AND BEDDING STONE QUANTITIES.



SECTION A-A
(TYPICAL SECTION AT BRIDGE)
NTS



SECTION B-B
(TYPICAL SECTION BEYOND BRIDGE)
NTS

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
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CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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"=30'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

**RUBBLE RIPRAP
SLOPE PROTECTION**

DESIGN FILE NAME: DRAWING NO.:

SHEET: B1-44
OF: 71 OF 95
PROJECT NO. 2019803

MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG		
		LOCATION				END BENT 1 - PRECAST CAP 1										NO. REQUIRED = 1																
6	E5	60- 0		2	2			3- 5			60- 0																					
6	E6	60- 0		7	2			3- 5			60- 0																					
5	E7	60- 0		4	2			3- 5			60- 0																					
6	E8	60- 0		7	2			3- 5			60- 0																					
6	E9	9- 0		18	11			7- 0			1- 0			1- 0																		
4	E10	VARY		28	11			2- 9			2- 7 ¼			1- 6																		
		6- 9		0	11			2- 9			2- 5			1- 4 ¼																		
4	E11	VARY		46	37			2- 9			2- 7 ¼			2- 7 ¼			0-10															
		8- 8		0	37			2- 9			2- 5			2- 5			0-10															
4	E12	VARY		46	37			2- 9			2- 7 ¼			1- 6 ¼			2- 1															
		8-10		0	37			2- 9			2- 5			1- 4 ¼			2- 1															
4	E13	VARY		6	4	3	3	2- 5			2- 9																					
		11- 8		0	4	3	3	2- 5			2- 9																					
6	E14	3-10		10	23			1- 6			0- 3			1- 6																		
7	E16	7- 0		6	1			6-11 ½																								
7	E17	8- 6		6	1			8- 5 ½																								
4	E18	8- 6		2	11			3- 7 ¾			2- 5			2- 5																		
4	E19	10- 2		8	37			3- 7 ¾			2- 5			2- 5			1- 7 ¾															
4	E20	4- 1		4	11			2- 9			0- 8			0- 8																		
7	E21	5- 0		2	11			2- 8			1- 2			1- 2																		
		LOCATION				END BENT 1 - PRECAST CAP 2										NO. REQUIRED = 1																
6	E1	68-10		2	2			3- 5			68- 9 ¼																					
6	E2	68-10		7	2			3- 5			68- 9 ¼																					
5	E3	68-10		4	2			3- 5			68- 9 ¼																					
6	E4	43- 5		7	1			43- 5																								
6	E9	9- 0		21	11			7- 0			1- 0			1- 0																		
4	E10	VARY		32	11			2- 9			2- 9 ¾			1- 8 ¾																		
		7- 2		0	11			2- 9			2- 7 ½			1- 6 ¼																		
4	E11	VARY		53	37			2- 9			2- 9 ½			2- 9 ½			0-10															
		9- 0		0	37			2- 9			2- 7 ¼			2- 7 ¼			0-10															
4	E12	VARY		53	37			2- 9			2- 9 ½			1- 8 ¾			2- 1														2	
		9- 2		0	37			2- 9			2- 7 ¼			1- 6 ¼			2- 1															
4	E13	VARY		6	4	3	3	2-10			2- 9																					
		12- 6		0	4	3	3	2- 9 ¾			2- 9																					
6	E14	3-10		11	23			1- 6			0- 3			1- 6																		
6	E15	28- 9		7	1			28- 9																								
7	E16	7- 0		6	1			6-11 ½																								
7	E17	7- 4		6	1			7- 3 ½																								
4	E18	8- 6		2	11			3- 7 ¾			2- 5			2- 5																		
4	E19	10- 2		8	37			3- 7 ¾			2- 5			2- 5			1- 7 ¾															
4	E20	4- 1		4	11			2- 9			0- 8			0- 8																		
7	E21	4- 0		2	11			2- 8			0- 8			0- 8																		
		LOCATION				END BENT 6 - PRECAST CAP 1										NO. REQUIRED = 1																
6	E1	29- 9		2	1			29- 9																								
6	E2	29- 9		7	1			29- 9																								
5	E3	29- 9		4	1			29- 9																								
6	E4	29- 9		7	12			23- 1 ½			6- 7 ½																				2	
6	E9	6- 0		12	11			4- 0			1- 0			1- 0																		
4	E10	VARY		20	11			2- 9			3- 8			2- 0 ¾																		
		7- 3		0	11			2- 9			3- 2½			1- 4																		
4	E11	VARY		19	37			2- 9			3- 8			3- 8			0-10															
		9- 2		0	37			2- 9			3- 2½			3- 2½			0-10															
4	E12	VARY		19	37			2- 9			3- 8			2- 0 ¾			2- 1															
		9- 4		0	37			2- 9			3- 2½			1- 4			2- 1															
4	E13	VARY		8	4	3	3	3- 3			2- 9																					

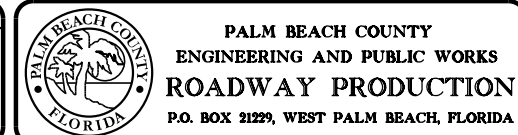
BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD INTERSECTION IMPROVEMENT AND BRIDGE REPLACEMENT

11

NO.	REVISION	BY	DATE



SCALE: N/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

<i>REINFORCING BAR LIST</i> <i>(1 OF 7)</i>	
DESIGN FILE NAME	DRAWING NO.

SHEET: *B1-45*
OF: *72 OF 95*
PROJECT NO.
2019803

7661

MARK		LENGTH		NO	TYP		STY		B			C			D			E			F			H			J			K			N	Ø
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG	
		12- 0		0	4	3	3	3- 2½			2- 9																							
6	E14	3-10		5	23			1- 6			0- 3			1- 6																				
7	E22	7- 0		6	1			6-11 ½																										
7	E23	8- 6		6	1			8- 5 ½																										
4	E24	8- 6		2	11			3- 7 ¾			2- 5			2- 5																				
4	E25	10- 2		8	37			3- 7 ¾			2- 5			2- 5			1- 7 ¾																	
4	E26	4- 1		4	11			2- 9			0- 8			0- 8																				
7	E27	5- 0		2	11			2- 8			1- 2			1- 2																				
		LOCATION		END BENT 6 - PRECAST CAP 2														NO. REQUIRED = 1																
6	E5	29- 9		2	1			29- 9																										
6	E6	29- 9		7	1			29- 9																										
5	E7	29- 9		4	1			29- 9																										
6	E8	38- 2		7	1			38- 1 ½																										
4	E9	6- 0		12	11			4- 0			1- 0			1- 0																				
4	E10	VARY		20	37			2- 9			3- 6 ½			1-11 ¼																				
		7- 2		0	11			2- 9			2- 5			1- 4																				
4	E11	VARY		19	37			2- 9			3- 6 ½			3- 6 ½			0-10																	
		9- 1		0	37			2- 9			2- 5			2- 5			0-10																	
4	E12	VARY		19	37			2- 9			3- 6 ½			1-11 ¼			2- 1																	
		9- 3		0	37			2- 9			2- 5			1- 4			2- 1																	
4	E13	VARY		8	4	3	3	2- 5 ½			2- 9																							
		11- 9		0	4	3	3	2- 5			2- 9																							
6	E14	3-10		5	23			1- 6			0- 3			1- 6																				
7	E22	7- 0		6	1			6-11 ½																										
7	E23	8- 6		6	1			8- 5 ½																										
4	E24	8- 6		2	11			3- 7 ¾			2- 5			2- 5																				
4	E25	10- 2		8	37			3- 7 ¾			2- 5			2- 5			1- 7 ¾																	
4	E26	4- 1		4	11			2- 9			0- 8			0- 8																				
7	E27	5- 0		2	11			2- 8			1- 2			1- 2																				
		LOCATION		END BENT 1 - PANELS														NO. REQUIRED = 1																
4	H1	16- 2		158	1			16- 2																										
10	H2	8- 4		378	1			8- 3 ½																										
10	H3	7- 7		54	1			7- 6 ½																										
		LOCATION		END BENT 6 - PANELS														NO. REQUIRED = 1																
4	H1	16- 2		81	1			16- 2																										
10	H4	5- 4		243	1			5- 3 ½																										
10	H5	7- 7		54	1			7- 6 ½																										
		LOCATION		INT BENT 2 - PRECAST CAP 1														NO. REQUIRED = 1																
6	F1	42- 3		2	2			3- 5			42- 3																							
6	F2	42- 3		7	2			3- 5			42- 3																							
5	F3	42- 3		4	2			3- 5			42- 3																							
6	F4	37-11		7	1			37-10 ½																										
6	F9	8- 8		12	11			6- 8			1- 0			1- 0																				
4	F10	VARY		20	11			2- 5			3- 2			2- 1 ¼																				
		7- 0		0	11			2- 5			2- 8			1- 4																				
4	F11	VARY		72	4	3	3	3- 2			2- 5																							
		11-10		0	4	3	3	2- 8			2- 5																							
6	F12	7-10		7	12			3- 6			4- 3 ¼																						2	
6	F13	1- 6		22	1			1- 6																										
		LOCATION		INT BENT 2 - PRECAST CAP 2														NO. REQUIRED = 1																
6	F5	33- 7		2	1			33- 7																										

BRIDGE NO. 934000



NO.	REVISION	BY	DATE



SCALE: N/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

REINFORCING BAR LIST
(2 OF 7)

DESIGN FILE NAME

DRAWING NO.

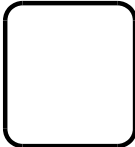
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MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
6	F6	33-	7	7	1			33-	7																								
5	F7	33-	7	4	1			33-	7																								
6	F8	33-	8	7	1			33-	7 1/4																								
6	F9	8-	8	9	11			6-	8	1-	0	1-	0																				
4	F10	VARY		16	11			2-	5	3-	1 1/4	2-	0																				
		6-11		0	11			2-	5	2-	10 5/8	1-	4																				
4	F11	VARY		58	4	3	3	3-	1 1/4	2-	5																						
		11- 9		0	4	3	3	2-	10 5/8	2-	5																						
6	F13	1-	6	18	1			1-	6																								
LOCATION		INT BENT 3 - PRECAST CAP 1																	NO. REQUIRED = 1														
6	F1	30-	2	2	1			30-	2																								
6	F2	30-	2	7	1			30-	2																								
5	F3	30-	2	4	1			30-	2																								
6	F4	30-	2	7	12			26-	0	4-	2																					2	
6	F9	7-	8	9	11			5-	8	1-	0	1-	0																				
4	F10	VARY		16	11			2-	5	2-11 1/4		1-10 1/4																					
		6- 9		0	11			2-	5	2-	5	1-	4																				
4	F11	VARY		50	4	3	3	2-11 1/4		2-	5																						
		11- 7		0	4	3	3	2-	5	2-	5																						
LOCATION		INT BENT 3 - PRECAST CAP 2																	NO. REQUIRED = 1														
6	F5	21-	9	2	1			21-	9																								
6	F6	21-	9	7	1			21-	9																								
5	F7	21-	9	4	1			21-	9																								
6	F8	21-	9	7	1			21-	9																								
6	F9	7-	8	6	11			5-	8	1-	0	1-	0																				
4	F10	VARY		12	11			2-	5	2-10 1/4		1- 9 1/4																					
		6- 8		0	11			2-	5	2-	5	1-	4																				
4	F11	VARY		36	4	3	3	2-10 1/4		2-	5																						
		11- 6		0	4	3	3	2-	5	2-	5																						
LOCATION		INT BENT 4 - PRECAST CAP 1																	NO. REQUIRED = 1														
6	F1	30-	2	2	1			30-	2																								
6	F2	30-	2	7	1			30-	2																								
5	F3	30-	2	4	1			30-	2																								
6	F4	30-	2	7	12			26-	0	4-	2																					2	
6	F9	7-	8	9	11			5-	8	1-	0	1-	0																				
4	F10	VARY		16	11			2-	5	2-11 1/4		1-10 1/4																					
		6- 9		0	11			2-	5	2-	5	1-	4																				
4	F11	VARY		50	4	3	3	2-11 1/4		2-	5																						
		11- 7		0	4	3	3	2-	5	2-	5																						
LOCATION		INT BENT 4 - PRECAST CAP 2																	NO. REQUIRED = 1														
6	F5	21-	9	2	1			21-	9																								
6	F6	21-	9	7	1			21-	9																								
5	F7	21-	9	4	1			21-	9																								
6	F8	21-	9	7	1			21-	9																								
6	F9	7-	8	6	11			5-	8	1-	0	1-	0																				
4	F10	VARY		12	11			2-	5	2-10 1/4		1- 9 1/4																					
		6- 8		0	11			2-	5	2-	5	1-	4																				
4	F11	VARY		36	4	3	3	2-10 1/4		2-	5																						
		11- 6		0	4	3	3	2-	5	2-	5																						
LOCATION		INT BENT 5 - PRECAST CAP 1																	NO. REQUIRED = 1														
6	F1	27-	6	2	1			27-	6																								

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

REINFORCING BAR LIST
(3 OF 7)

DESIGN FILE NAMEDRAWING NO.

SHEET: B1-47
OF: 74 OF 95

PROJECT NO.
2019803

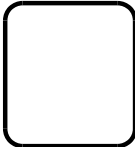
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MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BAR	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
6	F2	27-	6	7	1			27-	6																								
5	F3	27-	6	4	1			27-	6																								
6	F4	27-	7	7	12			23-	2		4-	4	1/4																			2	
6	F9	7-	2	9	11			5-	2		1-	0		1-	0																		
4	F10	VARY		16	11			2-	5		2-10	1/2		1-	9	1/2																	
		6-	8	0	11			2-	5		2-	5		1-	4																		
4	F11	VARY		42	4	3	3	2-10	1/2		2-	5																					
		11-	6	0	4	3	3	2-	5		2-	5																					
LOCATION INT BENT 5 - PRECAST CAP 2 NO. REQUIRED = 1																																	
6	F5	18-	9	2	1			18-	9																								
6	F6	18-	9	7	1			18-	9																								
5	F7	18-	9	4	1			18-	9																								
6	F8	18-	9	7	1			18-	9																								
6	F9	7-	2	6	11			5-	2		1-	0		1-	0																		
4	F10	VARY		12	11			2-	5		2-	9	1/2		1-	8	1/2																
		6-	7	0	11			2-	5		2-	5		1-	4																		
4	F11	VARY		28	4	3	3	2-	9	1/2	2-	5																					
		11-	5	0	4	3	3	2-	5		2-	5																					
LOCATION DECK SLAB - SPAN 1 & 2 NO. REQUIRED = 1																																	
4	S1	60-	0	34	12			30-	0		30-	0																				1	
4	S2	VARY		9	12			30-	0		30-	0																				1	
		56-10		0	12			26-10			26-10																					1	
4	S3	VARY		8	12			26-	8		26-	8																				1	
		51-	2	0	12			24-	6		24-	6																				1	
7	S4	60-	0	45	12			30-	0		30-	0																				1	
7	S5	VARY		32	12			30-	0		30-	0																				1	
		55-	7	0	12			25-	6	1/2	25-	6	1/2																			1	
7	S6	51-	1	15	12			25-	6	1/2	25-	6	1/2																			1	
8	S7	VARY		2	1			34-	9																								
		34-	0	0	1			33-	3																								
8	S7	VARY		2	1			34-	9																								
		34-	0	0	1			33-	3																								
8	S8	VARY		11	1			32-	5																								
		25-	9	0	1			19-	1																								
8	S8	VARY		11	1			32-	5																								
		25-	9	0	1			19-	1																								
8	S9	VARY		12	1			18-	7																								
		13-11		0	1			9-	2																								
8	S9	VARY		12	1			18-	7																								
		13-11		0	1			9-	2																								
8	S10	VARY		9	1			8-10																									
		6-	5	0	1			4-	0																								
8	S10	VARY		9	1			8-10																									
		6-	5	0	1			4-	0																								
7	S11	34-11		4	1			34-11		0-10																							
7	S12	VARY		22	12			34-	5		0-10																					91	
		28-	0	0	12			19-11		0-10																						91	
7	S12	VARY		22	12			34-	5		0-10																					91	
		28-	0	0	12			19-11		0-10																						91	
7	S13	VARY		23	12			19-	5		0-10																					91	
		15-	5	0	12			9-	8		0-10																					91	
7	S13	VARY		23	12			19-	5		0-10																					91	
		15-	5	0	12			9-	8		0-10																					91	
7	S14	VARY		32	12			9-	3		0-10																					91	
		8-	4	0	12			5-	8		0-10																					91	
7	S14	VARY		32	12			9-	3		0-10																					91	
		8-	4	0	12			5-	8		0-10																					91	

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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/A
APPROVED:	A.A.
DRAWN:	S.S.
CHECKED:	E.H.
DATE:	11/5/24

REINFORCING BAR LIST
(4 OF 7)

DESIGN FILE NAMEDRAWING NO.

SHEET: B1-48
OF: 75 OF 95

PROJECT NO.
2019803

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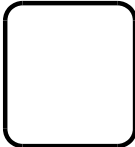
MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
7	S15	6-	3	30	12			5-	5		0-10																				91		
4	S16	3-	2	220	12			2-	2		1- 0																				VAR.		
7	S17	47-	6	201	1			47-	6																								
	S18	VARY		11	1			45-	11																								
		39-	5	0	1			32-	11																								
7	S18	VARY		11	1			45-	11																								
		39-	5	0	1			32-	11																								
7	S19	VARY		12	1			32-	3																								
		27-	8	0	1			23-	1																								
7	S19	VARY		12	1			32-	3																								
		27-	8	0	1			23-	1																								
7	S20	VARY		18	1			22-	4																								
		17-	5	0	1			12-	6																								
7	S20	VARY		18	1			22-	4																								
		17-	5	0	1			12-	6																								
7	S21	VARY		22	1			12-	0																								
		7-10		0	1			3-	7																								
7	S21	VARY		22	1			12-	0																								
		7-10		0	1			3-	7																								
7	S22	VARY		22	1			13-	0																								
		8- 9		0	1			4-	5																								
7	S22	VARY		22	1			13-	0																								
		8- 9		0	1			4-	5																								
7	S23	VARY		18	1			23-	8																								
		18-	7	0	1			13-	5 1/2																								
7	S23	VARY		18	1			23-	8																								
		18-	7	0	1			13-	5 1/2																								
7	S24	VARY		12	1			34-	1																								
		29-	3	0	1			24-	5																								
7	S24	VARY		12	1			34-	1																								
		29-	3	0	1			24-	5																								
7	S25	VARY		9	1			46-	0 1/2																								
		40-	6	0	1			34-	11																								
7	S25	VARY		9	1			46-	0 1/2																								
		40-	6	0	1			34-	11																								
8	S26	20-	0	2	3			20-	0		74-	1																					
8	S27	20-	0	2	3			20-	0		74-	4 1/2																					
8	S28	20-	0	2	3			20-	0		74-	8																					
8	S29	20-	0	2	3			20-	0		74-11	1/2																					
8	S30	20-	0	2	3			20-	0		75-	3																					
8	S31	20-	0	2	3			20-	0		75-	6 1/2																					
8	S32	16-	0	2	3			16-	0		74-	1																					
8	S33	16-	0	2	3			16-	0		74-	4 1/2																					
8	S34	16-	0	2	3			16-	0		74-	8																					
8	S35	16-	0	2	3			16-	0		74-11	1/2																					
8	S36	16-	0	2	3			16-	0		75-	3																					
8	S37	16-	0	2	3			16-	0		75-	6 1/2																					
8	S38	13-	6	2	3			13-	6		74-	1																					
8	S39	13-	6	2	3			13-	6		74-	4 1/2																					
8	S40	13-	6	2	3			13-	6		74-	8																					
8	S41	13-	6	2	3			13-	6		74-11	1/2																					
8	S42	13-	6	2	3			13-	6		75-	3																					
8	S43	13-	6	2	3			13-	6		75-	6 1/2																					
8	S44	37-	4	2	3			37-	4		74-	1																					
8	S45	37-	4	2	3			37-	4		74-	4 1/2																					
8	S46	37-	4	2	3			37-	4		74-	8																					
8	S47	37-	4	2	3			37-	4		74-11	1/2																					
8	S48	37-	4	2	3			37-	4		75-	3																					
8	S49	37-	4	2	3			37-	4		75-	6 1/2																					
8	S50	27-	0	2	3			27-	0		74-	1																					
8	S51	27-	0	2	3			27-	0		74-	4 1/2																					

NOTE:
1. VAR. = VARIES, FIELD BEND
THE BARS AS REQUIRED

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

REINFORCING BAR LIST
(5 OF 7)

DESIGN FILE NAMEDRAWING NO.

SHEET: B1-49
OF: 76 OF 95

PROJECT NO.
2019803

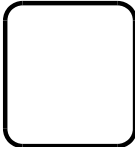
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MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø				
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG			
8	S52	27-	0	2	3			27-	0		74-	8																								
8	S53	27-	0	2	3			27-	0		74-11	1/2																								
8	S54	27-	0	2	3			27-	0		75-	3																								
8	S55	27-	0	2	3			27-	0		75-	6 1/2																								
4	V	0-	0	0	0																															
4	S	0-	0	0	0																															
		LOCATION					OVERLAY - SPAN 3			NO. REQUIRED = 1																										
5	A1	27-	7	75	1			27-	6 3/4																											
5	A2	25-	5	75	1			25-	4 3/4																											
5	B1	36-	2	115	1			36-	2																											
5	G3	5-	1	825	4	3	3	0-	9 1/4		0-10	3/4																								
4	L1	2-	2	284	10			1-	6		0-	8																								
4	S	0-	0	0	0																															
4	V	0-	0	0	0																															
		LOCATION					OVERLAY - SPAN 4			NO. REQUIRED = 1																										
5	A1	25-	3	48	1			25-	3																											
5	A2	23-	1	48	1			23-	1																											
5	B1	23-	8	101	1			23-	8																											
5	G1	5-	0	432	4	3	3	0-	9 1/4		0-10	1/2																								
4	L1	2-	2	218	10			1-	6		0-	8																								
4	S	0-	0	0	0																															
4	V	0-	0	0	0																															
		LOCATION					DECK SLAB - SPAN 5			NO. REQUIRED = 1																										
4	S1	46-	4	27	12			23-	2		23-	2																				2				
4	S2	VARY		8	1			6-	7																											
		5-	0	0	1			3-	4																											
4	S3	VARY		7	1			11-	10																											
		9-	5	0	1			6-	11																											
4	S4	12-	5	1	1			12-	5																											
4	S5	13-	9	1	1			13-	9																											
4	S6	23-	7	46	1			23-	7																											
4	S7	17-	3	1	1			17-	3																											
4	S8	15-	1	1	1			15-	1																											
4	S9	VARY		6	1			13-	6																											
		10-	10	0	1			8-	2																											
4	S10	VARY		8	1			7-	5																											
		5-	3	0	1			3-	1																											
4	S11	3-	2	37	12			2-	2		1-	0																				VAR.				
8	S12	VARY		4	3			25-	7		27-	5 1/2																								
		25-	7	0	3			25-	7		26-	7																								
6	S13	46-	4	46	12			23-	2		23-	2																				2				
6	S14	VARY		23	10			5-	9		0-10																									
		5-	4	0	10			3-	2		0-10																									
6	S15	VARY		19	10			13-	5		0-10																									
		10-	7	0	10			6-	0		0-10																									
6	S16	14-	10	2	10			14-	0		0-10																									
6	S17	23-	7	93	1			23-	7																											
6	S18	VARY		6	1			16-	9																											
		13-	5	0	1			10-	1																											
6	S19	VARY		8	1			9-	5																											
		6-	11	0	1			4-	5																											
4	S	0-	0	0	0																															
4	V	0-	0	0	0																															

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
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ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

REINFORCING BAR LIST
(6 OF 7)

DESIGN FILE NAME

DRAWING NO.

SHEET: B1-50
OF: 77 OF 95
PROJECT NO.
2019803

NOTE:
1. VAR. = VARIES, FIELD BEND
THE BARS AS REQUIRED

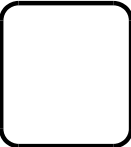
11/18/2024 8:59:51 AM \\stanleygroup.com\gfs\projects\Palm_Beach_County\29777.01\11-CADD\01-plans\struct\B1-B1RebarList07.dgn 7661

MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø	
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG
		LOCATION			APPROACH SLAB 1											NO. REQUIRED = 1																	
5	A1	9-	6	123	1			9-	6																								
8	A2	9-	6	164	1			9-	6																								
5	A3	VARY		8	1			10-	6																								
		10-	0	0	1			9-	6																								
8	A4	VARY		10	1			10-	7 1/2																								
		10-	1	0	1			9-	6																								
5	B1	47-	0	50	1			46-	11 3/4																								
5	B2	21-	7	25	1			21-	6 1/4																								
5	C1	5-	0	3	1			5-	0																								
		LOCATION			APPROACH SLAB 2											NO. REQUIRED = 1																	
5	A1	9-	6	59	1			9-	6																								
8	A2	9-	6	78	1			9-	6																								
5	A3	VARY		2	1			10-	6																								
		10-	4	0	1			10-	0 1/2																								
8	A4	VARY		2	1			10-	6																								
		10-	4	0	1			10-	0 1/2																								
5	A5	9-	6	1	1			9-	6																								
8	A6	9-	6	1	1			9-	6																								
5	B1	40-	5	25	12			36-	5 3/4	3-11																						2	
5	B3	23-	0	25	1			23-	0																								
5	C1	5-	0	13	1			5-	0																								
END OF LIST																																	

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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/A
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H
DATE: 11/5/24

REINFORCING BAR LIST (7 OF 7)	
DESIGN FILE NAME	DRAWING NO.

SHEET: B1-51
OF: 78 OF 95
PROJECT NO. 2019803

11/6/2024 4:21:33 PM \\stanleygroup.com\gfs\projects\Palm_Beach_County\29777.01\11-CADD\01-plans\struct\B1\B1Data\tableLoadRating_01.dgn 8203

Load Rating Summary Details for Reinforced Concrete Bridges (SPANS 1, 2, AND 5)																	Table Date 08-09-23
Table 2 - LRFR																	
Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength)					Shear (Strength)					Comments: Interior/exterior beam DF method if other than LRFD. Other appropriate comments
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.091	1.53	N/A	B	24'-0"	0.091	4.71	N/A	B	24'-0"	SPAN 2, EXT EDGE, MOMENT
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.091	1.99	N/A	B	24'-0"	0.091	6.10	N/A	B	24'-0"	SPAN 2, EXT EDGE, MOMENT
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.091	1.13	67.8	A	12'-0½"	0.091	3.89	233	B	24'-0"	SPAN 5, EXT EDGE, MOMENT

General Notes:

1. This table is based on the requirements established in the January 2023 "Structures Manual".

Table 2 Notes:

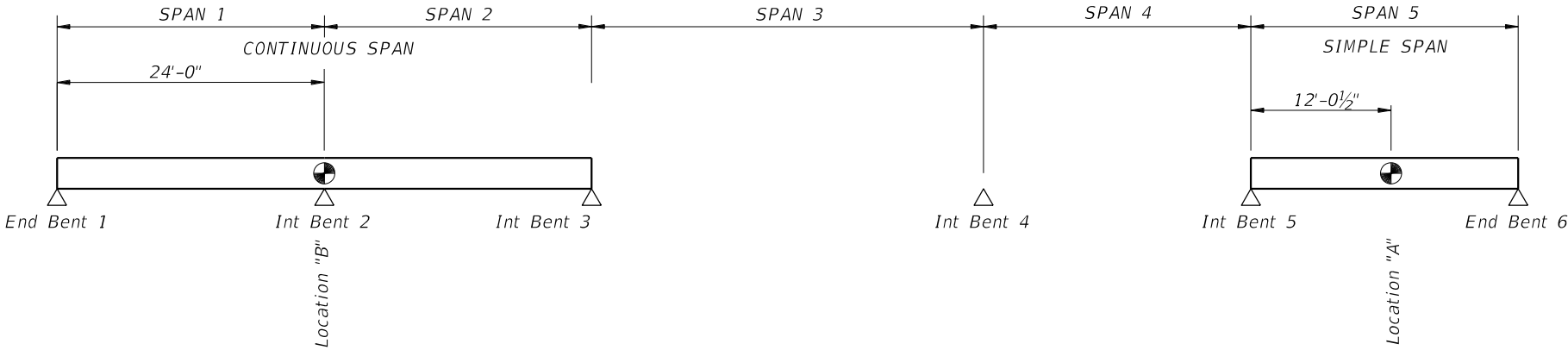
1. Permit capacity is determined by using the permit vehicle in all lanes.
2. Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? ☒ Yes ☐ No

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength II	FL-120	67.8	1.13

Abbreviations:

Inv - Inventory

Op - Operating



CONTROLLING RATING LOCATIONS (SPANS 1, 2, AND 5)
(C-I-P FLAT SLAB SPANS)

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT 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"=1'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

LOAD RATING CHART
(BRIDGE OVER L-13 CANAL)
SPANS 1, 2, AND 5

DESIGN FILE NAME

DRAWING NO.

SHEET: B1-52
OF: 79 OF 95
PROJECT NO. 2019803

BRIDGE NO. 934000

\\stanleygroup.com\gis\projects\Palm_Beach_County\29777.01\11-CADD\01-plans\struct\B1\B1Data\TableLoadRating_02.dgn 4:23:57 PM 11/6/2024 8203

Load Rating Summary Details for Prestressed Concrete Bridges (Flat Slab and Deck/Girder) (SPANS 3 AND 4)																	Table Date 08-09-23
Table 2 - LRFR																	
Level	Limit State	Vehicle	Weight (tons)	Load Factors			Moment (Strength) or Stress (Service)					Shear (Strength)					Comments:
				LL	DC	DW	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	Distribution Factor (DF)	Rating Factor	Tons	Location	Dimension	
Design Load Rating	Strength I (Inv)	HL-93	N/A	1.75	1.25	1.50	0.34	2.06	N/A	B	16.44	0.62	3.59	N/A	A	1.37	Span 3, Exterior Beam Moment controls
	Strength I (Op)	HL-93	N/A	1.35	1.25	1.50	0.34	2.67	N/A	B	16.44	0.62	4.65	N/A	A	1.37	Span 3, Exterior Beam Moment controls
	Service III (Inv)	HL-93	N/A	0.80	1.00	1.00	0.34	2.62	N/A	B	16.78	N/A	N/A	N/A	N/A	N/A	Span 3, Exterior Beam Moment controls
Permit Load Rating	Strength II	FL120	60.0	1.35	1.25	1.50	0.34	2.08	124.88	B	15.07	0.62	3.2	192.17	A	1.37	Span 3, Exterior Beam Moment controls

General Notes:

1. This table is based on the requirements established in the January 2023 "Structures Manual".

Table 2 Notes:

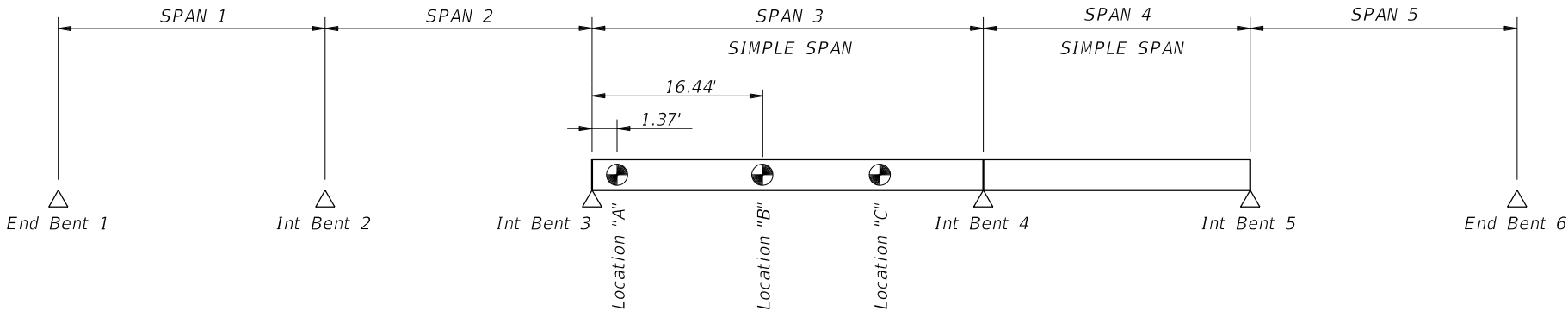
1. Permit capacity is determined by using the permit vehicle in all lanes.
2. Service III Design Inventory tensile stress limits = $6\sqrt{f'_c}$.
3. Has the AASHTO LRFD Specifications Article 5.8.3.5 longitudinal reinforcement been satisfied? ☒ Yes ☐ No

Controlling Load Rating			
Limit State	Vehicle	Weight (Tons)	Rating Factor
Strength I (Inv)	HL-93	74.16	2.06

Abbreviations:

Inv - Inventory

Op - Operating



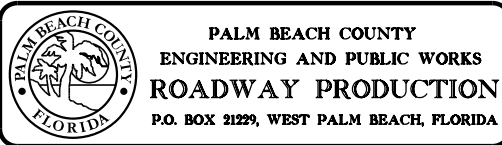
CONTROLLING RATING LOCATIONS (SPANS 3 AND 4)
(FLORIDA SLAB BEAM SPANS)

BRIDGE NO. 934000

Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
WWW.STANLEYGROUP.COM
CERTIFICATE OF AUTHORIZATION NO. 1978
ERIC HUSKEY, P.E. NO. 56593

**CR 880 AT SAM SENTER ROAD
INTERSECTION IMPROVEMENT AND BRIDGE
REPLACEMENT**

NO.	REVISION	BY	DATE



SCALE: 1"=1'
APPROVED: A.A.
DRAWN: S.S.
CHECKED: E.H.
DATE: 11/5/24

LOAD RATING CHART (BRIDGE OVER L-13 CANAL) SPANS 3 AND 4	
DESIGN FILE NAME	DRAWING NO.

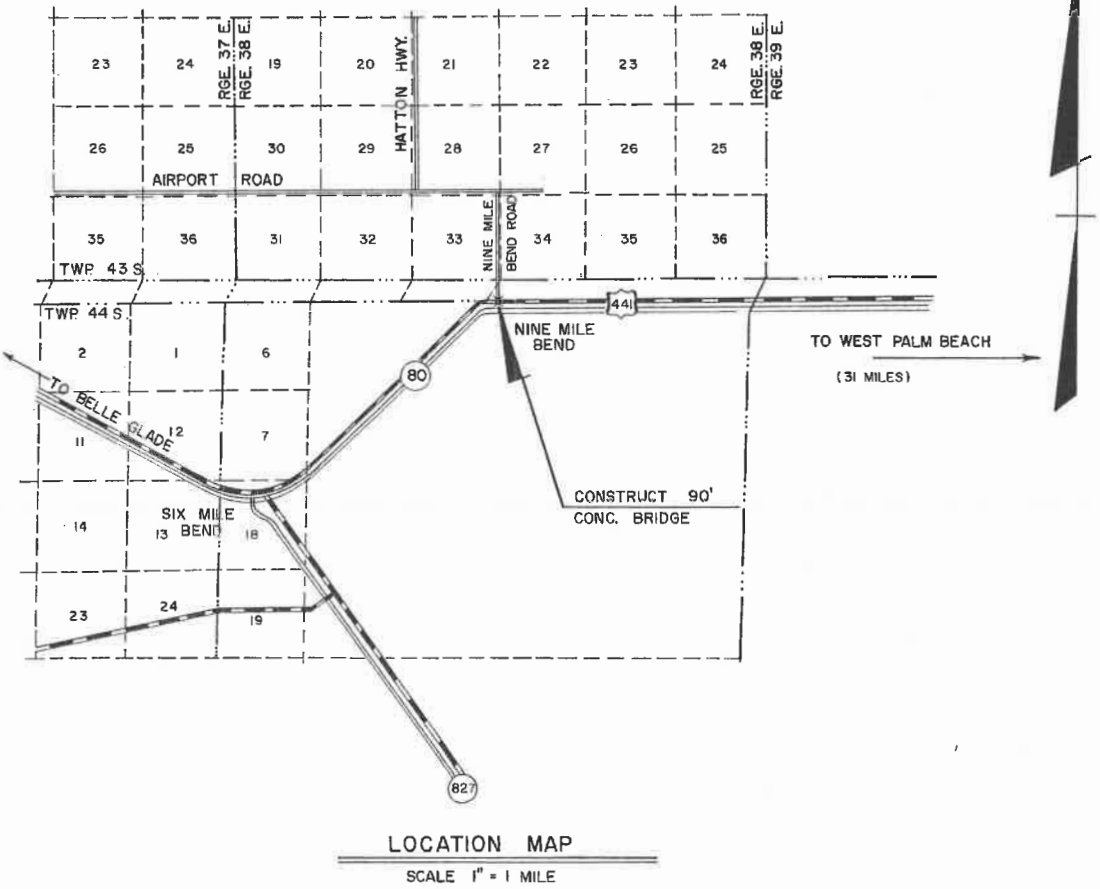
SHEET: B1-53
OF: 80 OF 95
PROJECT NO. 2019803

STATE OF FLORIDA
COUNTY OF PALM BEACH

PLANS OF PROPOSED
CONSTRUCTION OF A 90 FT. CONCRETE BRIDGE
ON NINE MILE BEND ROAD
OVER OCEAN CANAL (L-13)
C.O.P. 565.02

INDEX OF SHEETS

NO.	
1	KEY MAP & SUMMARY OF QUANTITIES
2	SITE PLAN AND PROFILE
3	PLAN AND ELEVATION
4	PRESTRESSED CONCRETE PILES
5	PRECAST CONCRETE SHEET PILING
6	ABUTMENT NO.1-DETAILS
7	ABUTMENT NO.2-DETAILS
8	INTERMEDIATE BENT NO.1-DETAILS
9	INTERMEDIATE BENT NO.2-DETAILS
10-12	SUPERSTRUCTURE SPAN NO.1-DETAILS
13	SUPERSTRUCTURE SPAN NO.2 & 3-SLAB UNIT PLACEMENT
14	PRECAST PRESTRESSED SLABS-DETAILS
15	CONCRETE HANDRAIL DETAILS



CONVENTIONAL SIGNS

COUNTY LINE	TRAVELED WAY	PROPOSED	EXISTING
TOWNSHIP LINE	CULVERTS	PROPOSED	EXISTING
SECTION LINE	BRIDGES		
PROPERTY LINE	POWER POLE		
CITY LINE	TELEPHONE POLE		
FENCE LINE	MARSH		
RIGHT OF WAY LINE	GROUND ELEV.		
BASE OR SURVEY LINE	GRADE ELEV.		
CANALS	R.R. MILE POST		

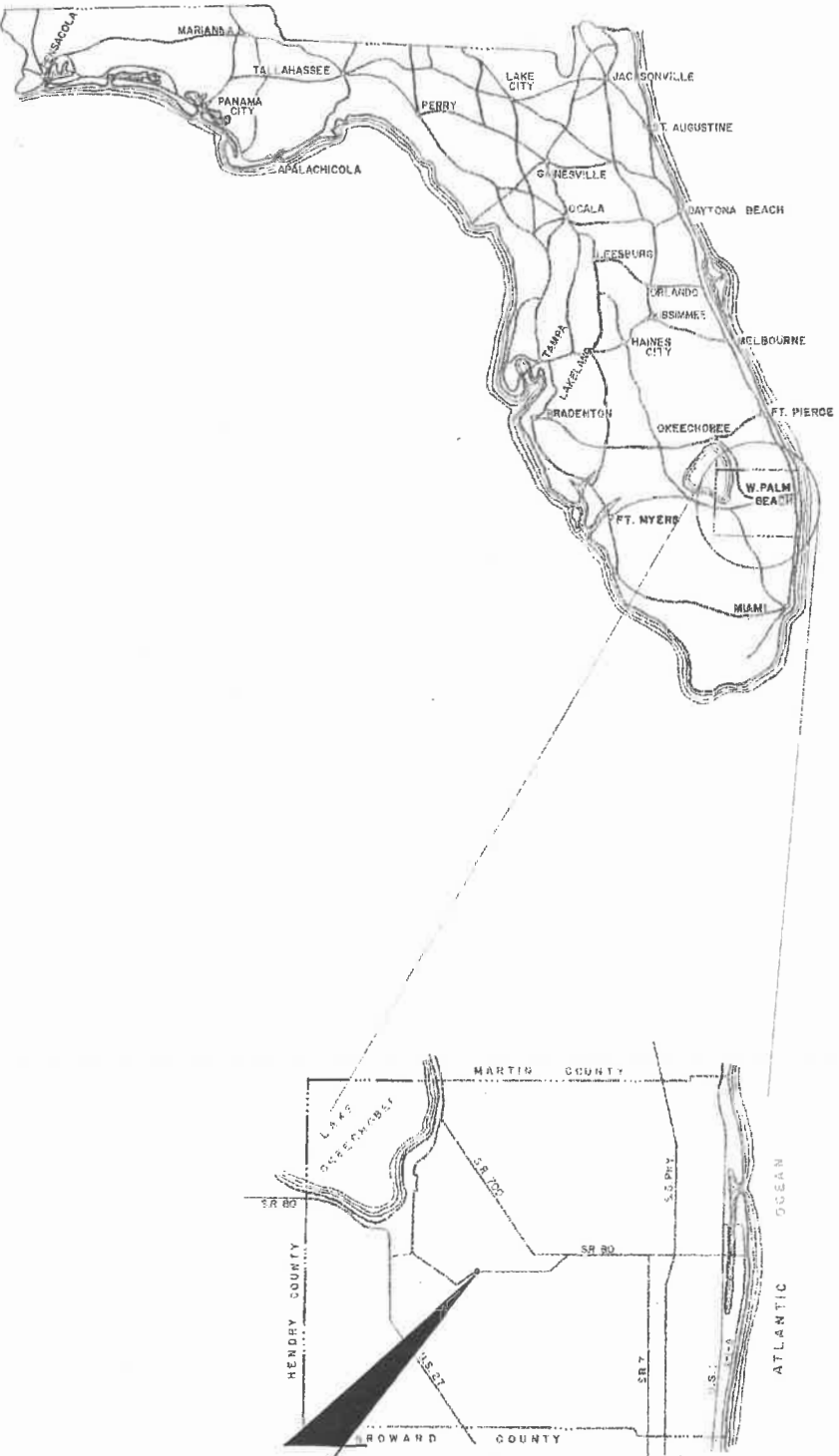
GOVERNING SPECIFICATIONS: STATE OF FLORIDA, STATE ROAD DEPARTMENT;
STANDARD SPECIFICATIONS (AMENDED), DATED 1964 AND AMENDMENTS THERETO.

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM	UNIT	QUANTITY
120-1	REMOVAL OF EXISTING STRUCTURE	L.S.	1
300-1	CLASS "A" CONCRETE	CU. YD.	126
300-7A	CONCRETE HANDRAIL	L.F.	186
310-1	REINFORCING STEEL	LBS.	19,789
400-3A	PRESTRESSED SLAB UNITS (30' X 4' X 1'-3")	EA.	16
400-3B	PRESTRESSED SLAB UNITS (30' X 3' X 1'-3")	EA.	4
405-5	PRESTRESSED COMPOSITE CONC.-STEEL PILING - FURNISHED (14" SQ.)	L.F.	855
405-6	PRESTRESSED COMPOSITE CONC.-STEEL PILING - DRIVEN (14" SQ.)	L.F.	855
405-9	PRESTRESSED UNLOADED TEST PILE (14" SQ. X 40')	EA.	1
405-13	CONCRETE SHEET PILING (12' X 2'-6" X 7")	L.F.	636
410-1	STRUCTURAL STEEL	LB.	34,581

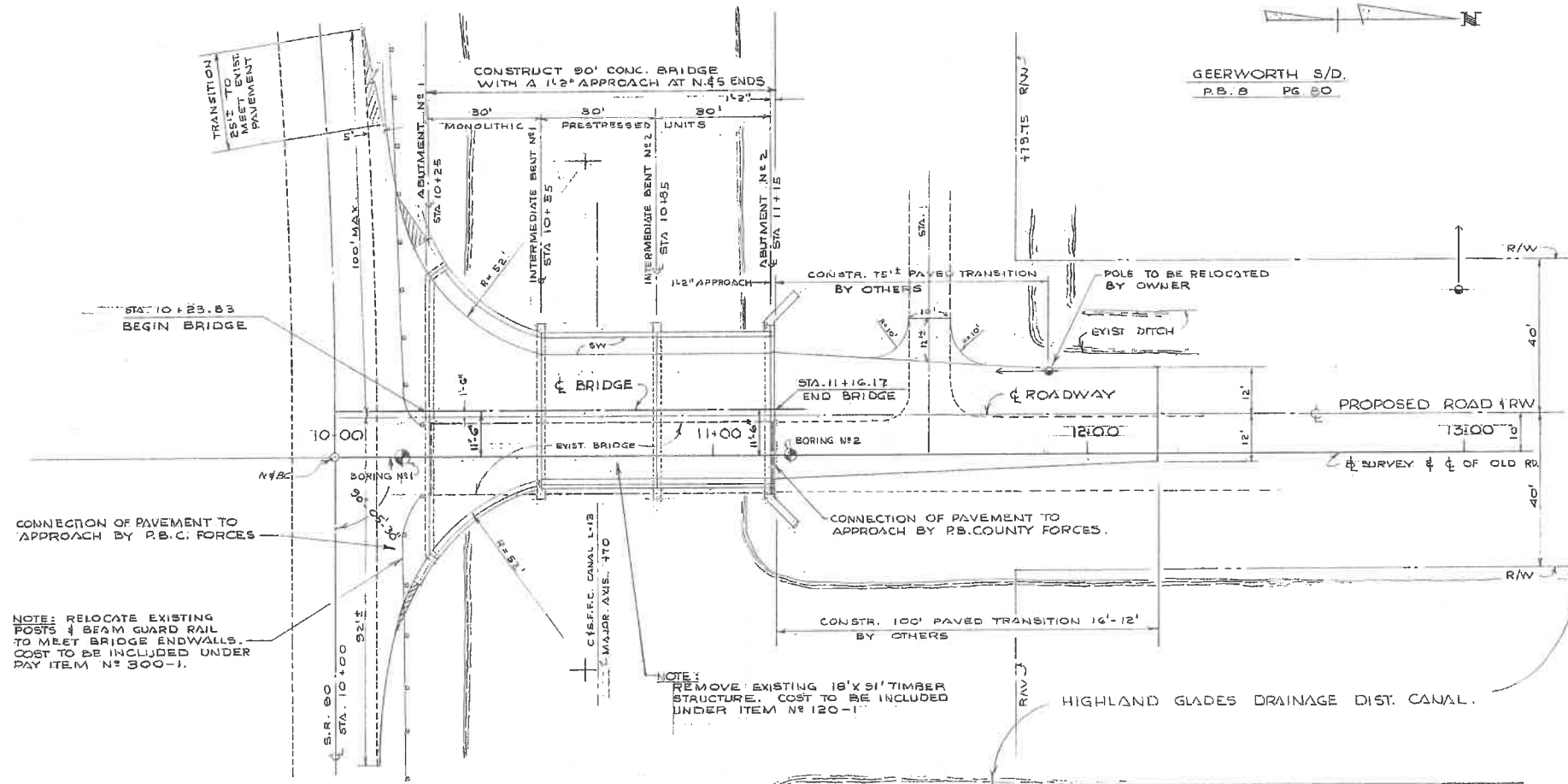
LOCATION OF JOB

APPROVED BY: *[Signature]*
ASSIST. COUNTY ENGINEER

DATE: APRIL 1966



PLAN	SURVEYED	DATE
	BY	
	RYAN	
	NO. 1106	



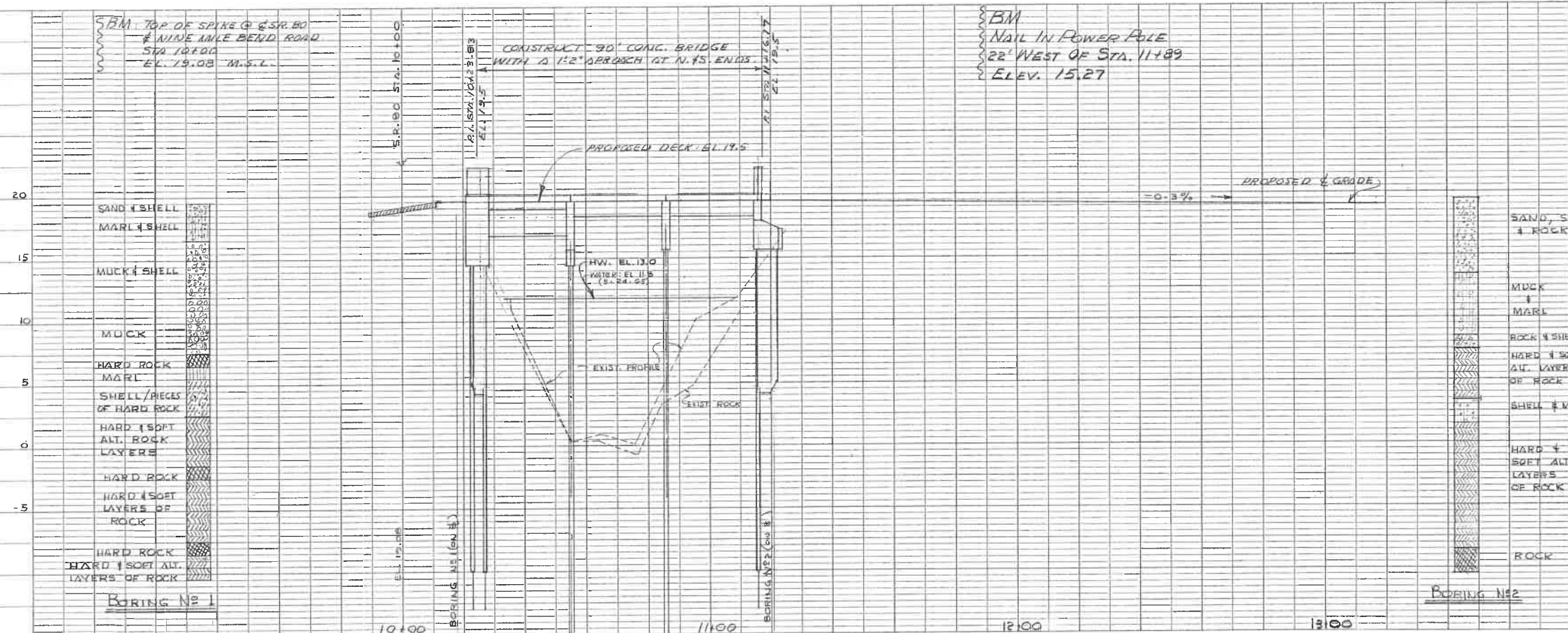
NOTE:
FOR THIS PROJECT THE CONTRACTOR WILL BE FURNISHED THE BRIDGE, A STATION RELATED TO THE WORK AND A BENCH MARK WITHIN THE LIMITS OF THE WORK. FROM THESE POINTS THE CONTRACTOR SHALL TRANSFER ALL LINES AND GRADES THAT HE SHALL REQUIRE FOR THE CONSTRUCTION OF THE BRIDGE.

PHYSICAL SAMPLES OF TEST BORINGS CAN BE SEEN BY THE CONTRACTOR BY CONTACTING THE OFFICE OF THE COUNTY ENGINEER.

ALL PILE LENGTHS SHOWN ARE FOR BIDDING PURPOSES ONLY. PILE LENGTHS SHALL BE DETERMINED FROM THE TEST PILE. THE COUNTY ENGINEER SHALL BE NOTIFIED AND TO BE IN ATTENDANCE DURING TEST PILE DRIVING.

MAINTENANCE OF TRAFFIC. (ROAD WILL BE CLOSED DURING CONSTR.)
THE CONTRACTOR SHALL BE DIRECTLY RESPONSIBLE FOR ERECTING BARRICADES, LIGHTS, ETC. AND MAINTAINING THEM AT EACH END OF HIS BRIDGE CONSTRUCTION. PALM BEACH COUNTY WILL ERECT WARNING SIGNS ALONG SR 80 & ON NINE MILE BEND ROAD NORTH OF THE BRIDGE, AND BARRICADES AT AIRPORT RD. THE CONTRACTOR SHALL COORDINATE HIS TRAFFIC CONTROL WITH PALM BEACH COUNTY Supt. OF PUBLIC ROADS, GLADES AREA, MR. CHARLES MAXON 996-3110.

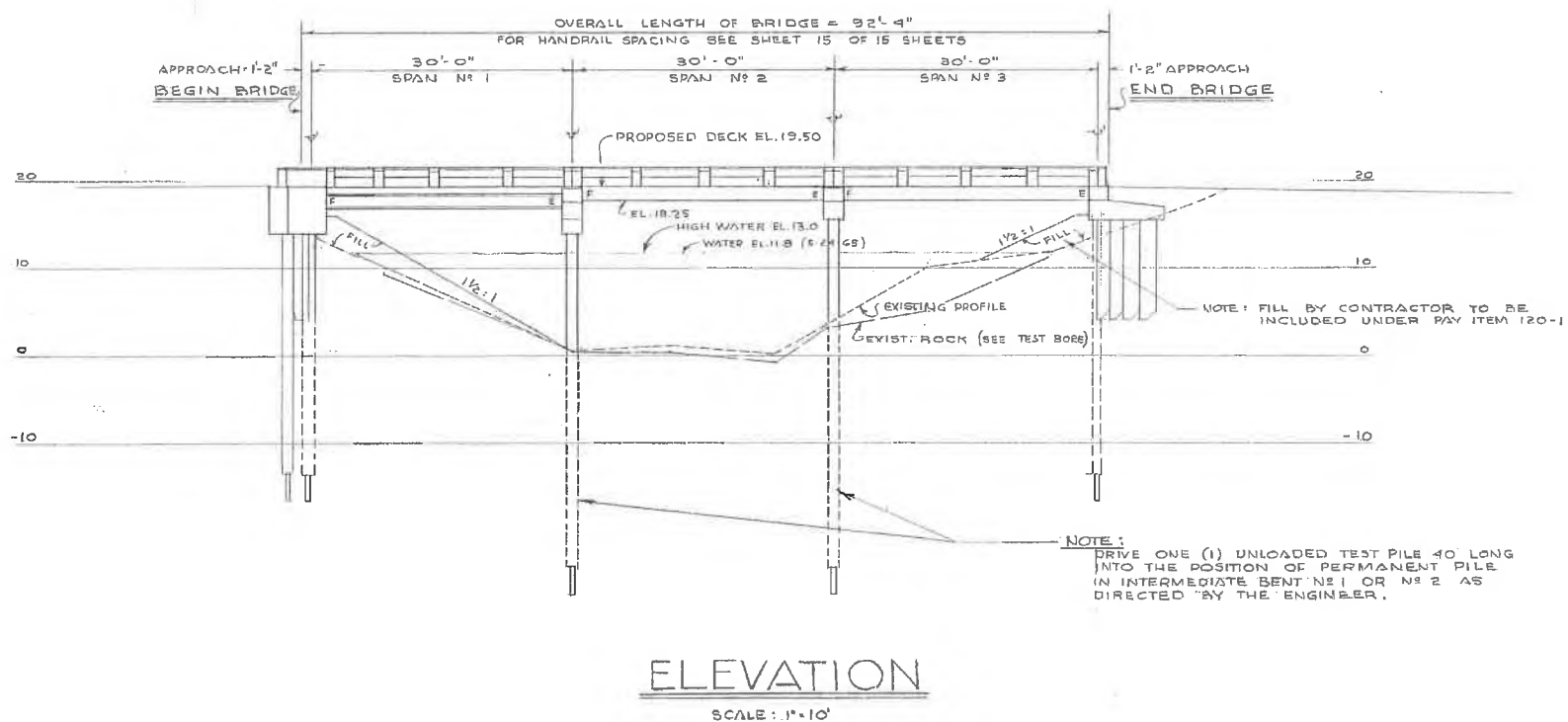
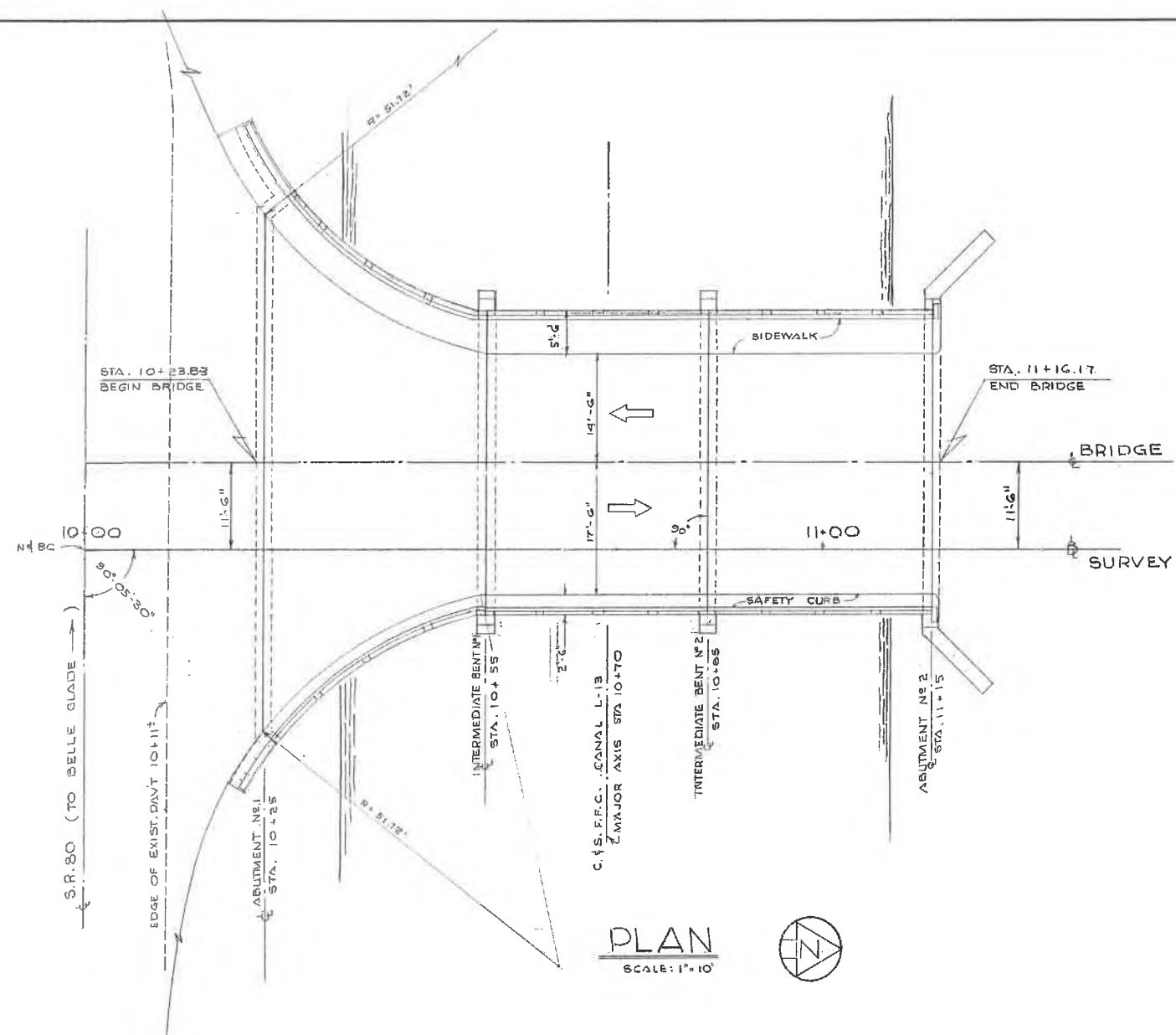
PROFILE	SURVEYED	DATE
	BY	
	RYAN	
	NO. 1106	



Re: P.B.C. ROAD CONSTR. PLANS 3-64-150

PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT
NINE MILE BEND ROAD
BRIDGE OVER OCEAN CANAL
SITE PLAN AND PROFILE

APPROVED		COUNTY ENGINEER	
NAME	DATE	SCALE	JOB NO.
DRAWN BY	D.R.	2-15-66	1" = 20'
TRACED BY		DRAWING	COR. 56502
CHECKED BY	RAC.	NO.	3-66-010
NOTEBOOK	1106		SH. 2 OF 15 SHEETS



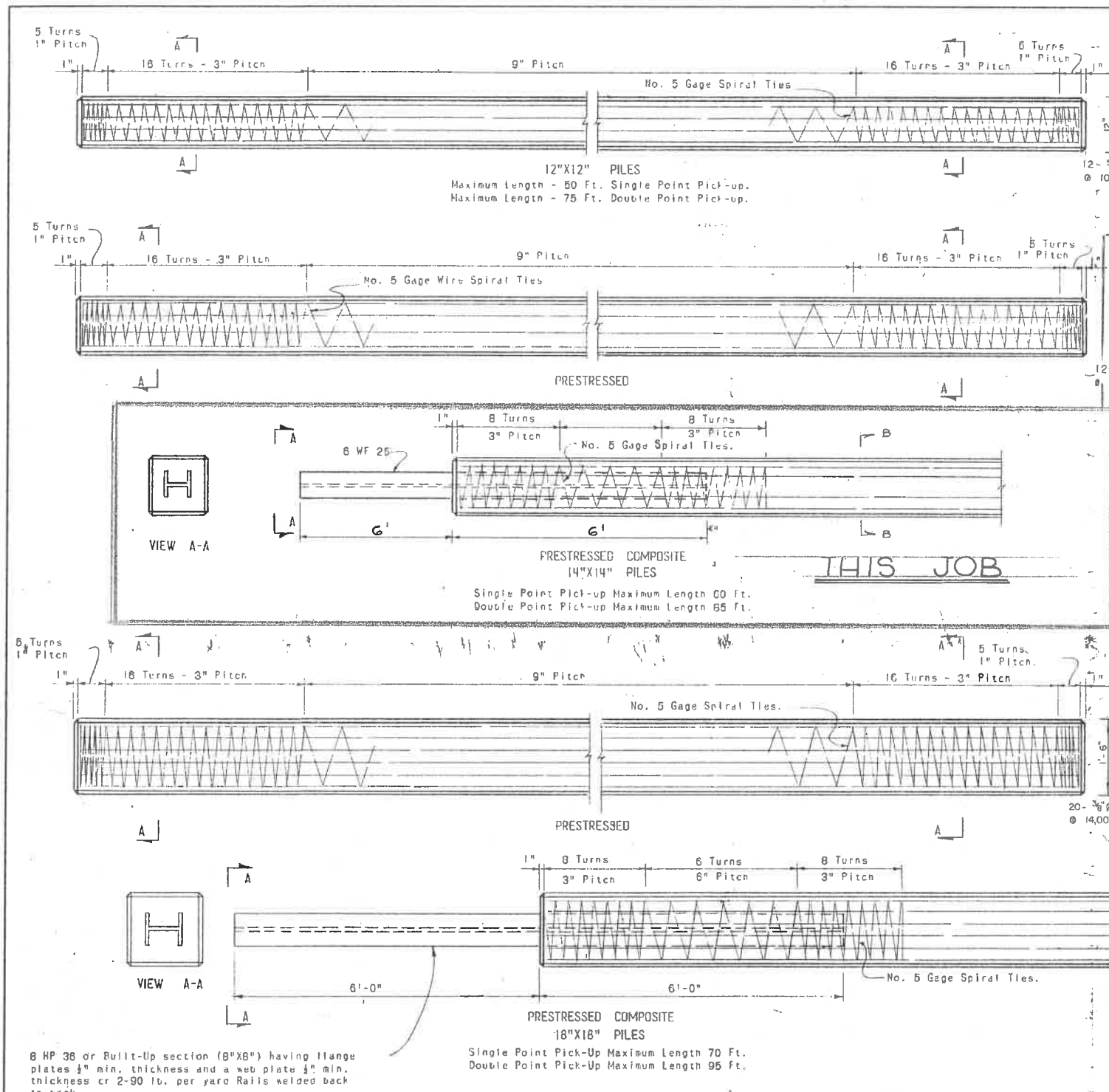
GENERAL NOTES

- DESIGN SPECIFICATIONS: A.A.S.H.O. 1961 WITH APPROVED REVISIONS.
- LOADING: H20-S16-44
- FILL AT END BENTS: FILL SHALL BE IN PLACE AND COMPACTED BEFORE THE END BENT CAPS ARE POURED.
- CHANNEL EXCAVATION: NONE REQUIRED
- STRUCTURAL STEEL: THE STEEL FOR WF BEAMS SHALL CONFORM TO A.S.T.M. DESIGNATION A-36. ALL OTHER STRUCTURAL STEEL THAT WILL REQUIRE WELDING SHALL CONFORM TO EITHER A.S.T.M. A-313 OR A-57.
- WELDING: ALL WELDING SHALL CONFORM TO THE CURRENT "STANDARD SPECIFICATIONS FOR WELDING HIGHWAY AND RAILWAY BRIDGES OF THE AMERICAN WELDING SOCIETY."
- PILE DESIGN LOAD: ALL PILE: DESIGN LOAD 35 TON.
- PAINT FOR STRUCTURAL STEEL: ALL STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH ARTICLE 478 OF THE SPECIFICATIONS. NO PAINT SHALL BE APPLIED WITHIN TWO (2) INCHES OF ANY FIELD WELD UNTIL AFTER THE WELD IS COMPLETED.
- EXPOSED SURFACES: ALL EXPOSED SURFACES OF BENTS AND ABUTMENTS, AND SURFACES OF SUPERSTRUCTURE AS SEEN IN ELEVATION SHALL BE GIVEN A CLASS 1 FINISH.

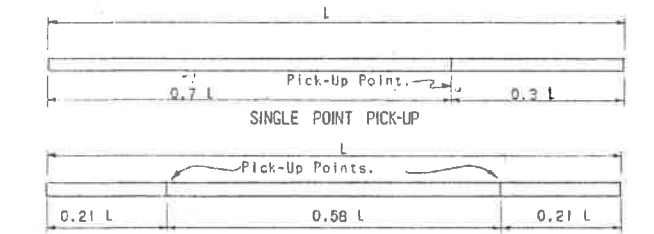
PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT

NINE MILE BEND ROAD BRIDGE OVER OCEAN CANAL PLAN AND ELEVATION

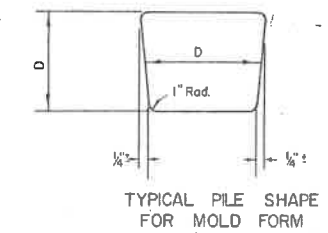
APPROVED		COUNTY ENGINEER	
DRAWN BY	D.R.	DATE	2-15-66
TRACED BY		SCALE	1" = 10'
CHECKED BY	RAC	DRAWING	COP 565.02
NO.	DATE	NO.	3-66-010



8 HP 36 or Built-Up section (8"x8") having flange plates 1/2" min. thickness and a web plate 1/2" min. thickness or 2-90 lb. per yard Rails welded back to back.



NOTE: Piles shall be marked at Pick-Up Points to indicate proper points for attaching handling lines.



GENERAL NOTES

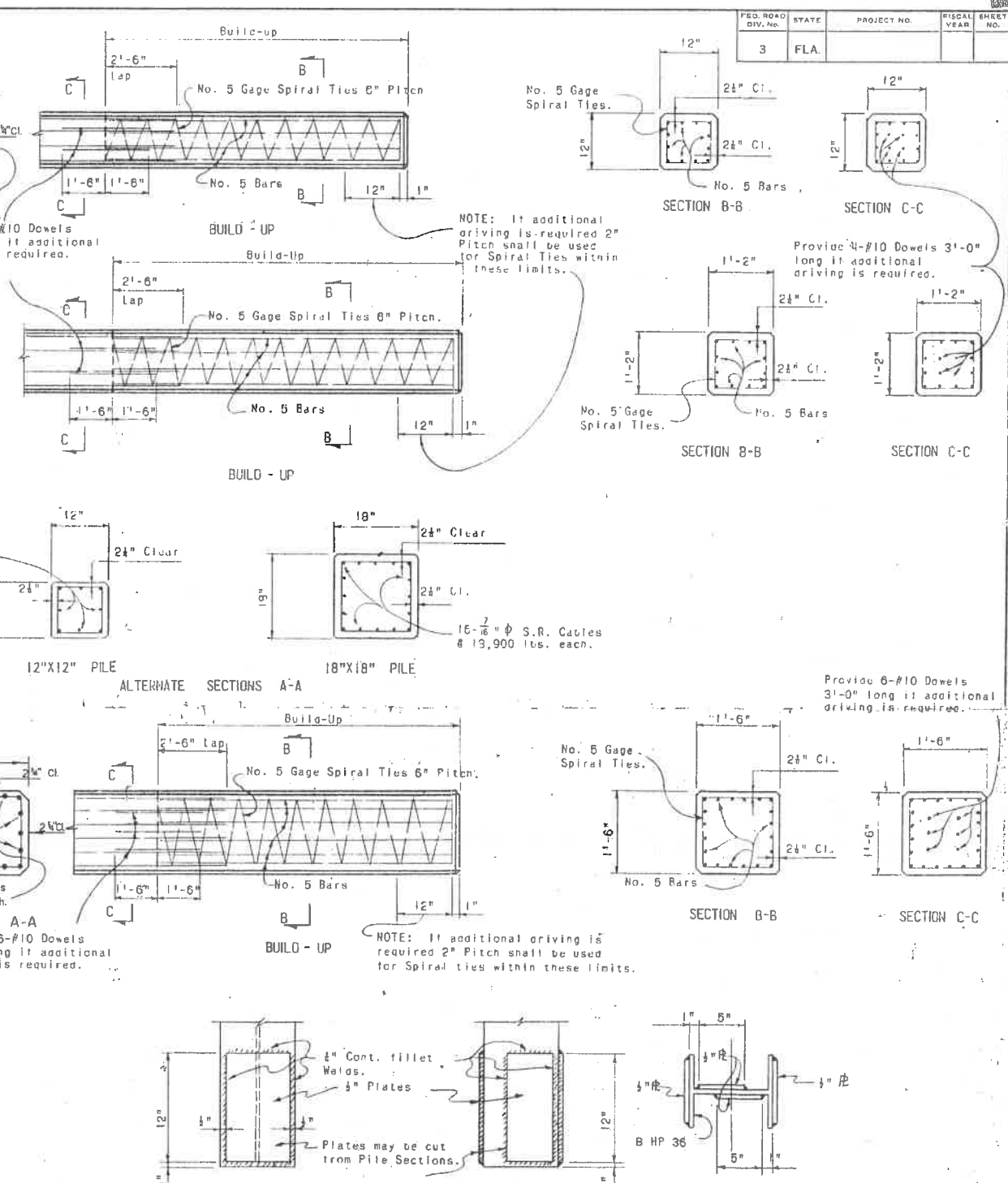
SPIRAL TIES: Spirals shall be tied to all Corner Cables.

MATERIAL FOR SPIRAL TIES: Spirals may be manufactured from stock meeting requirements of any grade of reinforcing steel or hard drawn steel.

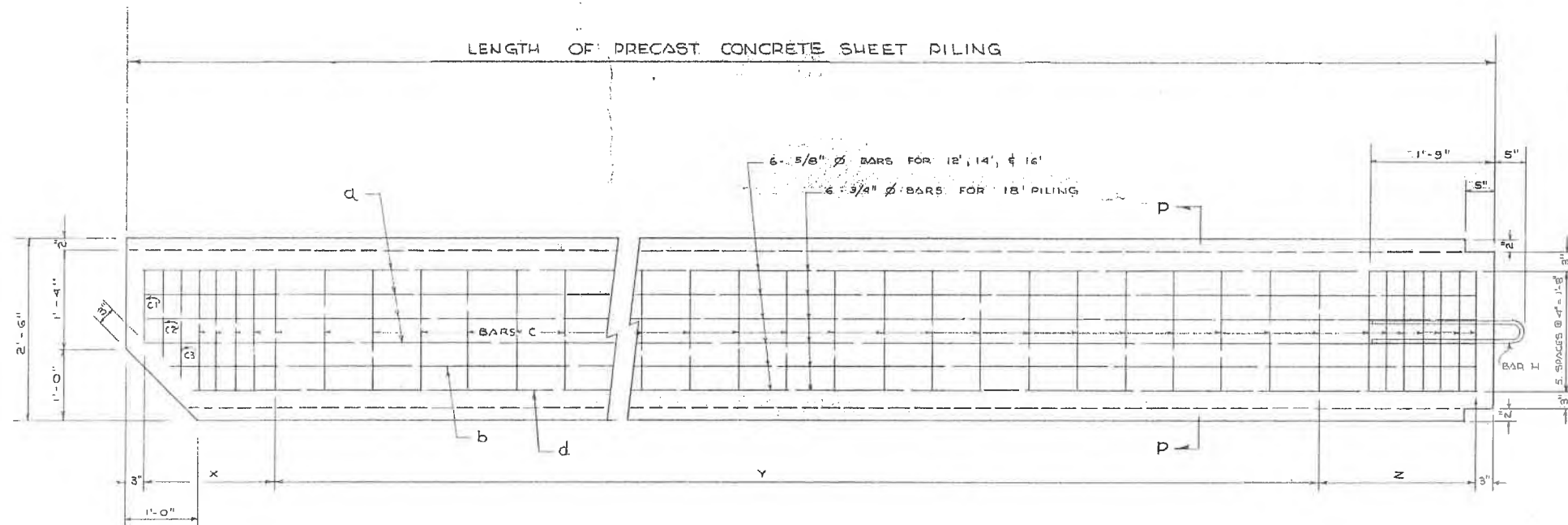
PILE CUTOFFS: In cutting off Concrete Piles on abrasive saw shall be used to score the Concrete at cut off elevation to the approximate depth of Reinforcing Steel. As an alternate to sawing, scoring may be done with a templated power drill.

PAYMENT FOR "BUILD-UPS" WHEN ADDITIONAL DRIVING IS REQUIRED: Four additional feet of length of Piling will be allowed for payment for Splice when additional driving is required.

OCTAGONAL PILES: Prestressed Octagonal Piles of equivalent strength may be substituted for square piles. Details of Pile shall be submitted to the Engineer for approval.



PALM BEACH COUNTY, FLORIDA			
STATE ROAD DEPARTMENT OF FLORIDA			
BRIDGE DIVISION			
PRESTRESSED CONCRETE PILES			
ROAD NO.	COUNTY	PROJECT NO.	
Detailed by	J.T.R.	2-54	
Checked by	J.M.G.	12-58	
Traced by	J.R.F.	12-58	
APPROVED BY		APPROVED BY	
Drawing No.		Index No.	
1 OF 1		3400	



BILL OF REINFORCING STEEL					
SHEET PILING LENGTH	MARK	SIZE	NO REB	LENGTH	DESCRIPTION
12'	d	5/8" ϕ	4	11'-6"	Straight
	b	"	1	11'-3"	"
	d	"	1	10'-9"	"
	c	3/8" ϕ	24	1'-8"	"
	C ₁	"	1	1'-0"	"
	C ₂	"	1	1'-3"	"
14'	d	5/8" ϕ	4	13'-6"	"
	b	"	1	13'-3"	"
	d	"	1	12'-9"	"
	c	3/8" ϕ	27	1'-8"	"
	C ₁	"	1	1'-0"	"
	C ₂	"	1	1'-3"	"
16'	d	5/8" ϕ	4	15'-6"	"
	b	"	1	15'-3"	"
	d	"	1	14'-9"	"
	c	3/8" ϕ	30	1'-8"	"
	C ₁	"	1	1'-0"	"
	C ₂	"	1	1'-3"	"
18'	d	5/8" ϕ	4	17'-6"	"
	b	"	1	17'-3"	"
	d	"	1	16'-9"	"
	c	3/8" ϕ	33	1'-8"	"
	C ₁	"	1	1'-0"	"
	C ₂	"	1	1'-3"	"

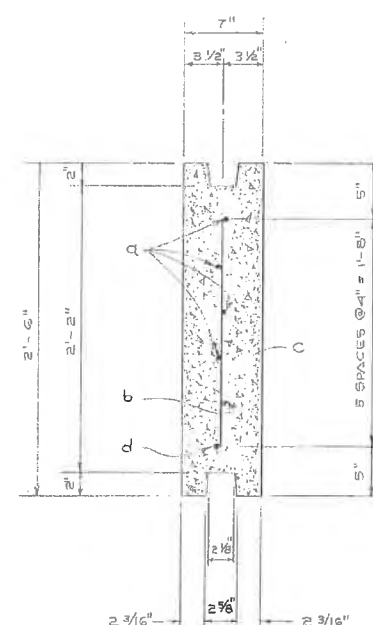
BARS "C" SPACING SCHEDULE			
PILE LENGTH	X	Y	Z
*12'	7 @ 3" = 1'-9"	12 @ 8" = 8'-0"	7 @ 3" = 1'-9"
*14'	7 @ 3" = 1'-9"	15 @ 8" = 10'-0"	7 @ 3" = 1'-9"
*16'	7 @ 3" = 1'-9"	18 @ 8" = 12'-0"	7 @ 3" = 1'-9"
18'	7 @ 3" = 1'-9"	21 @ 8" = 14'-0"	7 @ 3" = 1'-9"

*FROM SRD STANDARD INDEX NO 2467 (FEB. 1950)

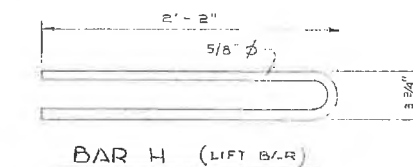
NOTE

Careful attention shall be given by the Contractor to grout full all joints, and/or openings to form a continuous bulkhead. Grouting shall be done to the satisfaction of the County Engineer, and cost for the same shall be included in the Contract Unit Price for Sheet Piling.

Any desired modification to the design or construction of the Sheet Pile as Specified shall necessitate the submitting of complete shop drawings to the Office of the County Engineer. All changes shall be at the discretion of the County Engineer.



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



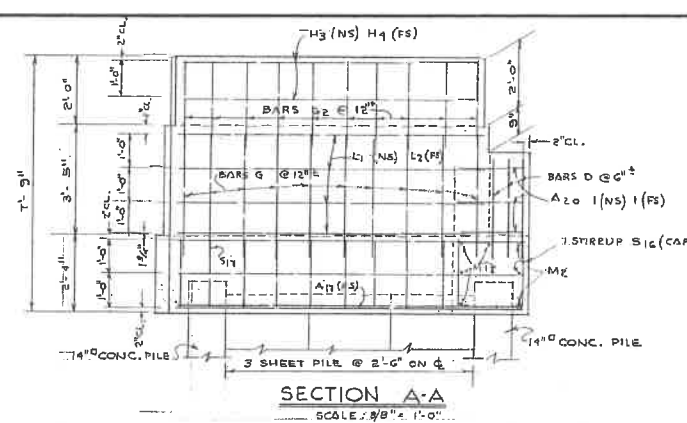
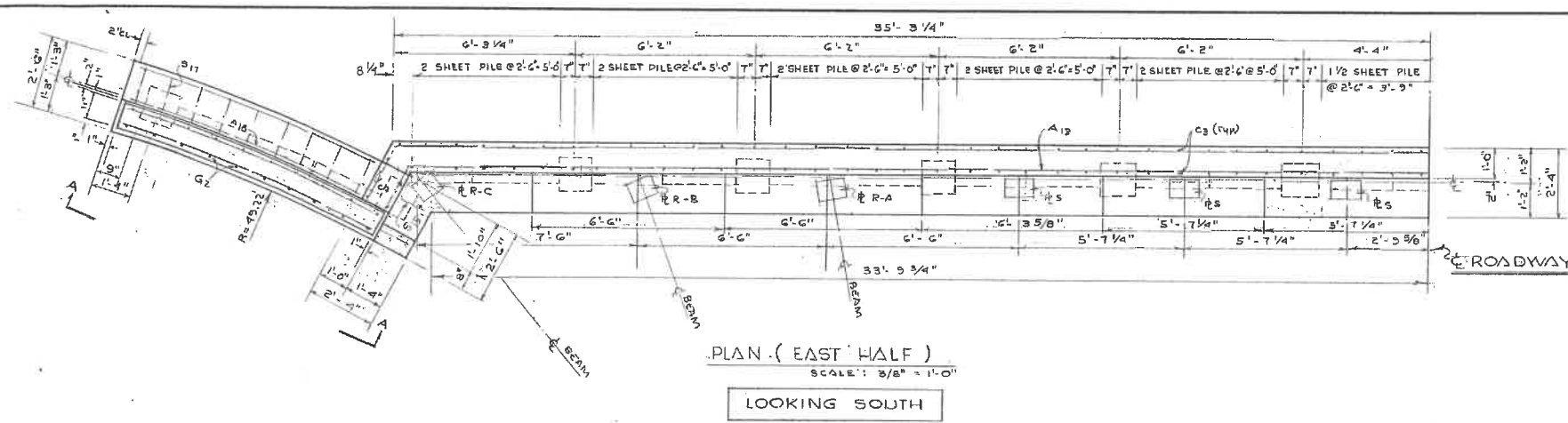
NOTE:

BAR H (LIFT BAR), 5/8" ϕ X 4'-7" TO BE INCLUDED IN ALL CASES FOR CURBING REINFORCING STEEL

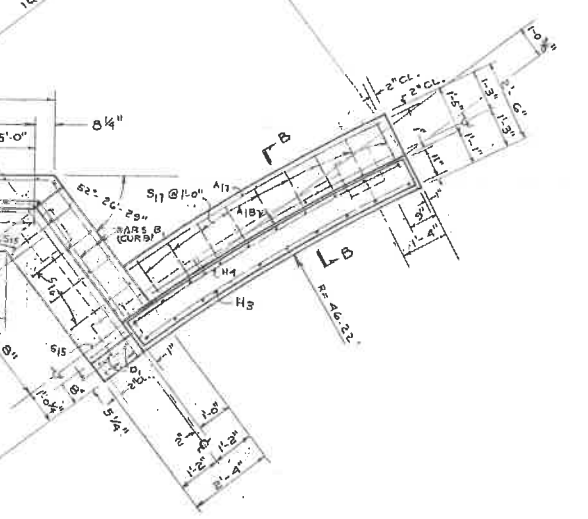
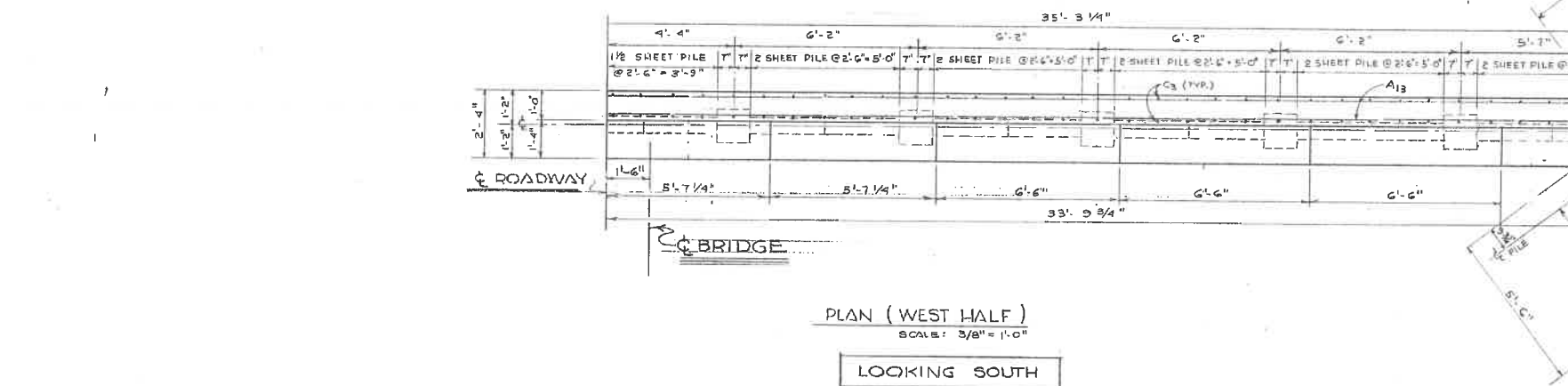
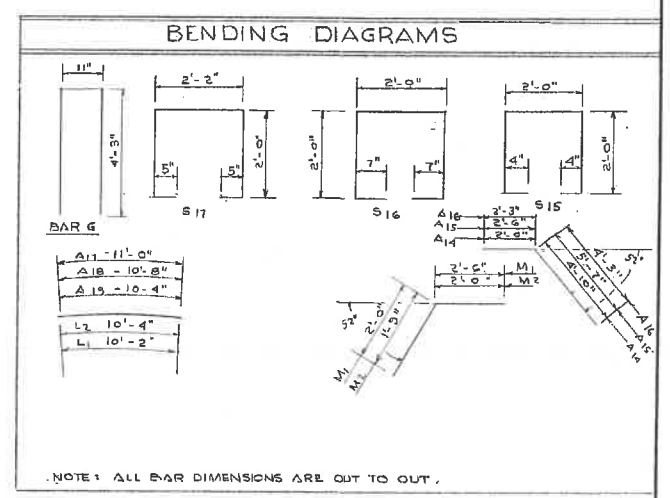
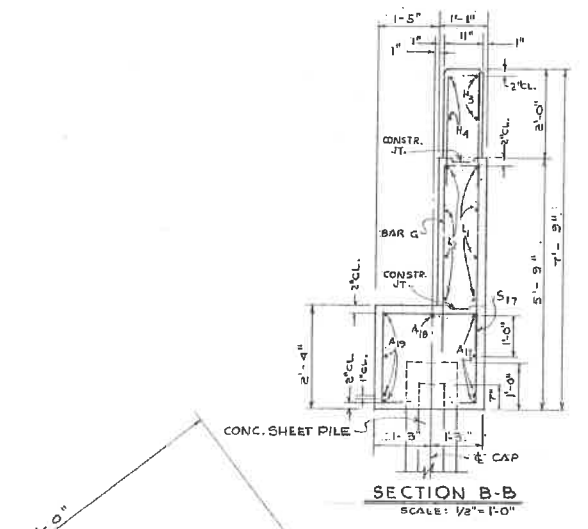
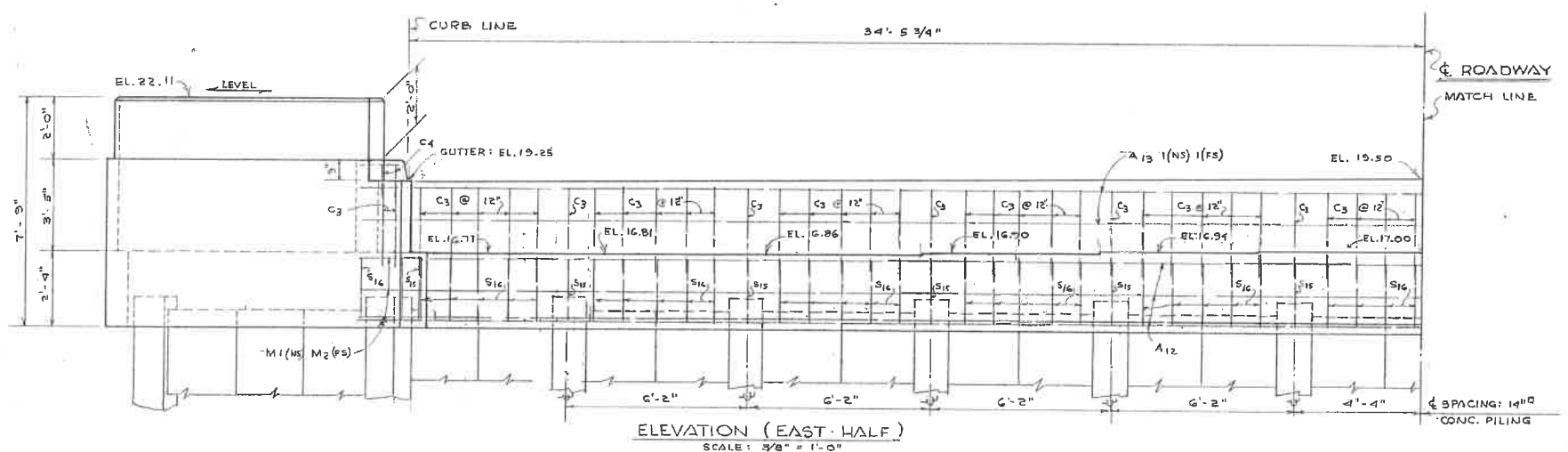
PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT
P.B.C. STANDARD
PRECAST CONCRETE SHEET PILING
(12'-14'-16' & 18' LENGTHS)

APPROVED			COUNTY ENGINEER	
NAME	DATE	SCALE	AS SHOWN	JOB NO
DRAWN BY	D.R.VAN	3-30-62		COP 565.02
TRACED BY			DRAWING	
CHECKED BY	A.K.B.	3-30-62	NO.	3-66-010

NO.	DATE	REMARKS	BY

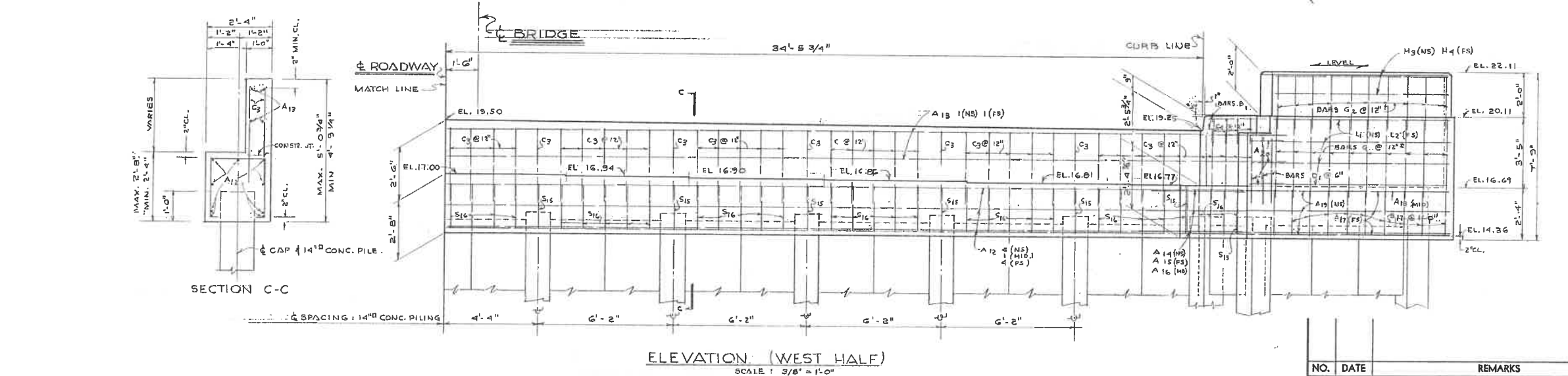


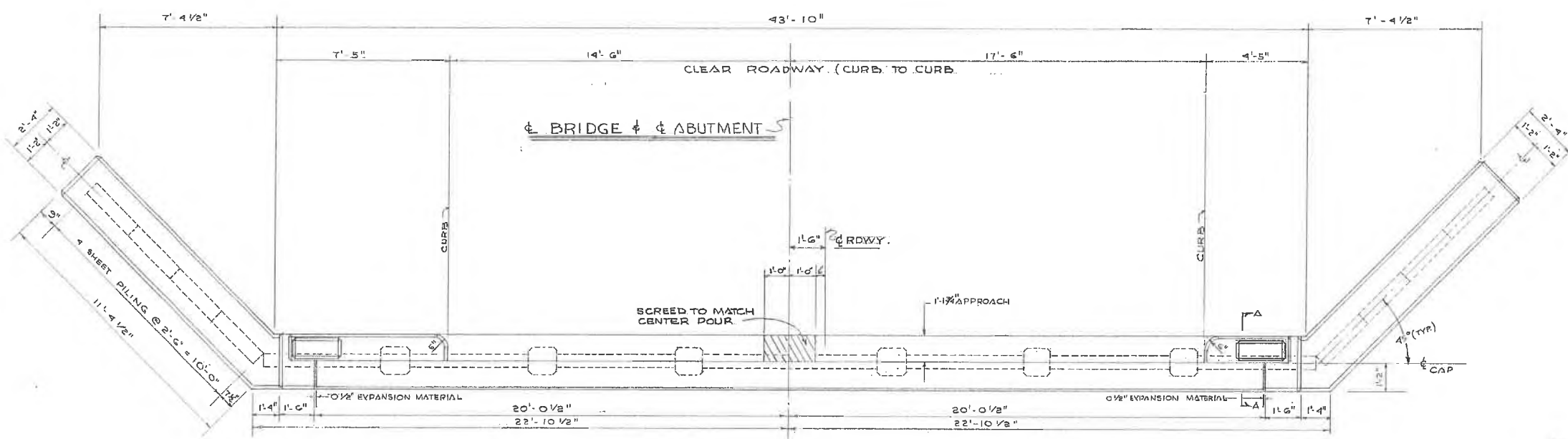
MARK	SIZE	Nº REQ'D	LENGTH	BENDING
A12	8	9	70'-0"	STRAIGHT
A13	4	4	70'-0"	"
A14	8	4	6'-10"	SEE DIAGRAM
A15	8	4	8'-1"	"
A16	8	1	6'-6"	"
A17	8	8	11'-0"	SEE DIAGRAM
A18	8	2	10'-0"	"
A19	8	8	10'-4"	"
A20	4	12	1'-6"	STRAIGHT
B1	4	2	5'-2"	STRAIGHT
B2	4	2	2'-2"	"
C3	4	154	3'-3"	STRAIGHT
C4	4	12	1'-3"	"
D	4	12	3'-0"	"
G	4	20	9'-5"	SEE DIAGRAM
G2	4	40	2'-6"	STRAIGHT
H3	4	4	9'-4 1/2"	SEE DIAGRAM
H4	4	4	9'-6"	"
S15	4	13	6'-8"	SEE DIAGRAM
S16	4	62	7'-2"	"
S17	4	15	7'-0"	"
M1	4	5	4'-6"	SEE DIAGRAM
M2	4	3	3'-5"	SEE DIAGRAM
L1	4	8	9'-5"	SEE DIAGRAM
L2	4	8	9'-6"	"



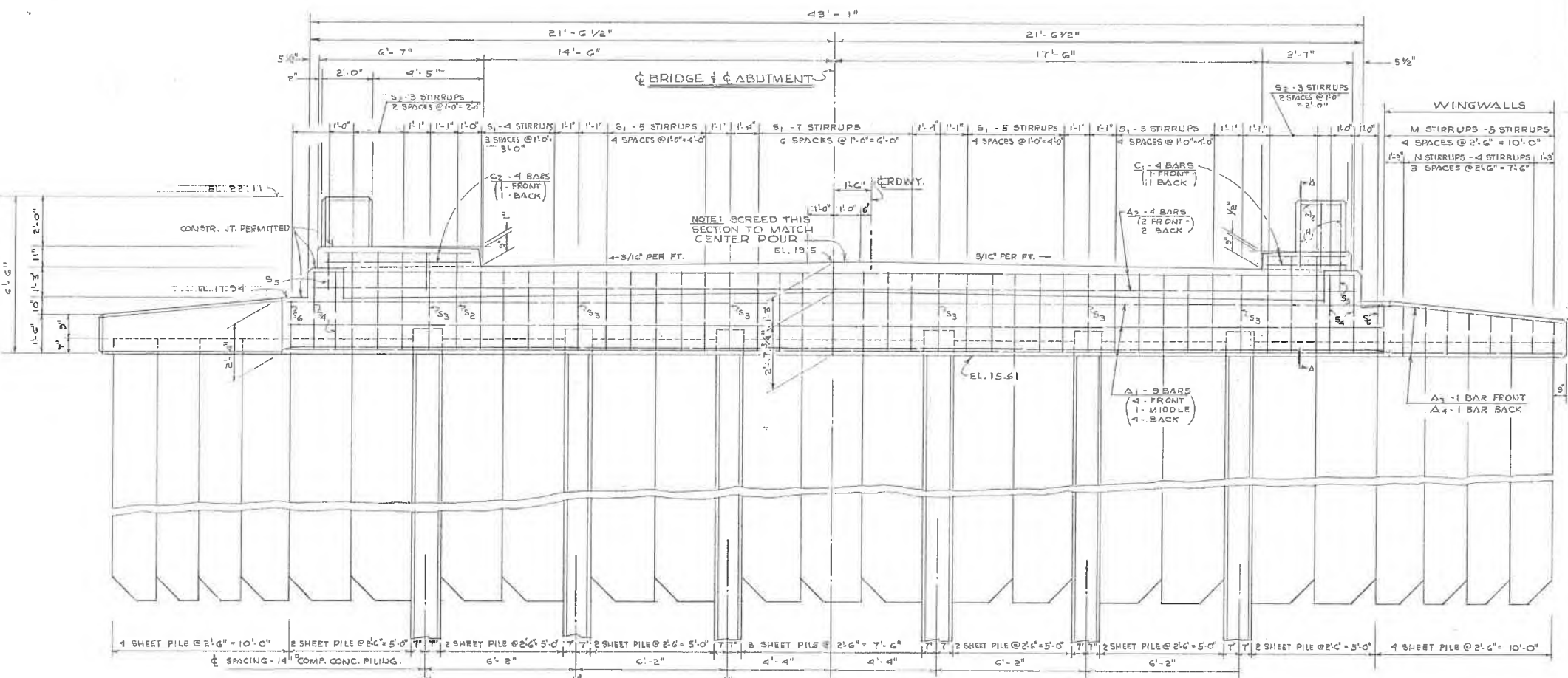
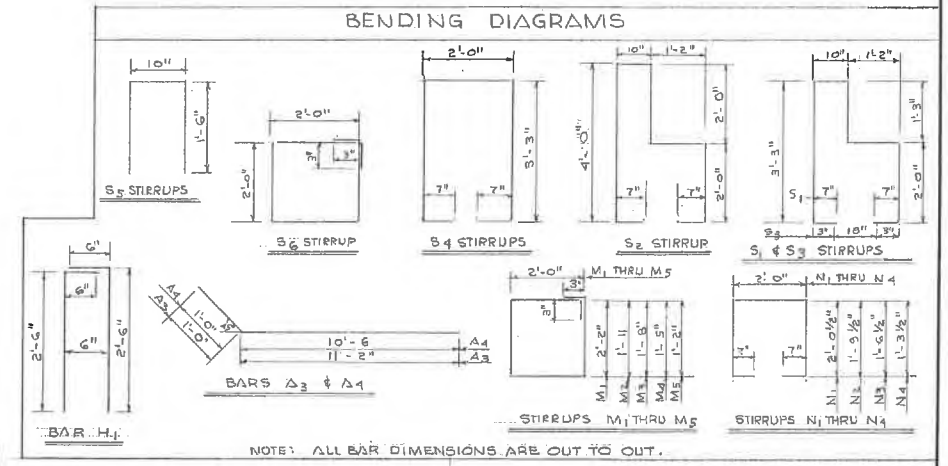
ITEM	UNIT	QUANTITY
CLASS A CONCRETE (3500 P.S.I.)	CU. YD.	32
REINFORCING STEEL	LBS.	3,770
PRECAST CONC. SHEET PILE (2'-6" x 7' x 12')	EA.	30
COMPOSITE CONC. PILING (14" x 25')	L.F.	375

ALL CHAMFERS 15/8" X 15/8"

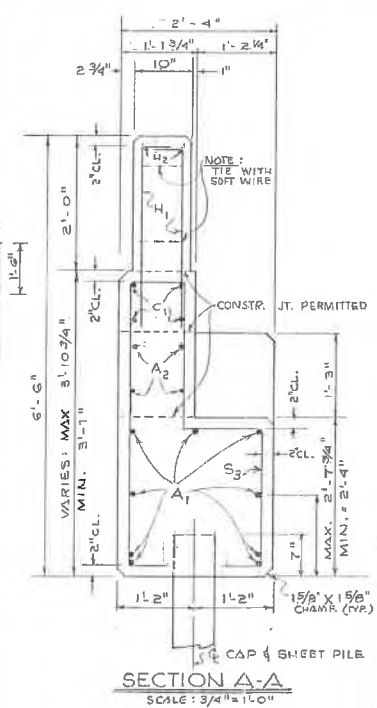




BILL OF REINFORCING STEEL				
MARK	SIZE	Nº REQD	LENGTH	BENDING
A ₁	8	18	24'-0"	STRAIGHT
A ₂	5	4	24'-0"	"
A ₃	5	4	12'-2"	SEE DIAGRAM
A ₄	5	4	11'-6"	"
C ₁	4	4	3'-3"	STRAIGHT
C ₂	4	4	6'-3"	"
S ₁	4	26	9'-8"	SEE DIAGRAM
S ₂	4	7	11'-4"	"
S ₃	4	6	9'-0"	"
S ₄	4	4	9'-10"	"
S ₅	4	3	3'-10"	"
S ₆	4	2	8'-6"	"
H ₁	4	6	6'-0"	SEE DIAGRAM
H ₂	4	4	1'-8"	STRAIGHT
M ₁	4	2	8'-10"	SEE DIAGRAM
M ₂	4	2	8'-4"	"
M ₃	4	2	7'-10"	"
M ₄	4	2	7'-4"	"
M ₅	4	2	6'-10"	"
N ₁	4	2	7'-3"	SEE DIAGRAM
N ₂	4	2	6'-9"	"
N ₃	4	2	6'-3"	"
N ₄	4	2	5'-9"	"



ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
CONCRETE CLASS 'A' (3500 PSI)	CU. YDS.	16.30
REINFORCING STEEL	LBS.	1,422
COMPOSITE CONC. PILING (14"x25")	L.F.	150
PRECAST CONC. SHEET PILE (7'x2'-6"x12")	EACH	23



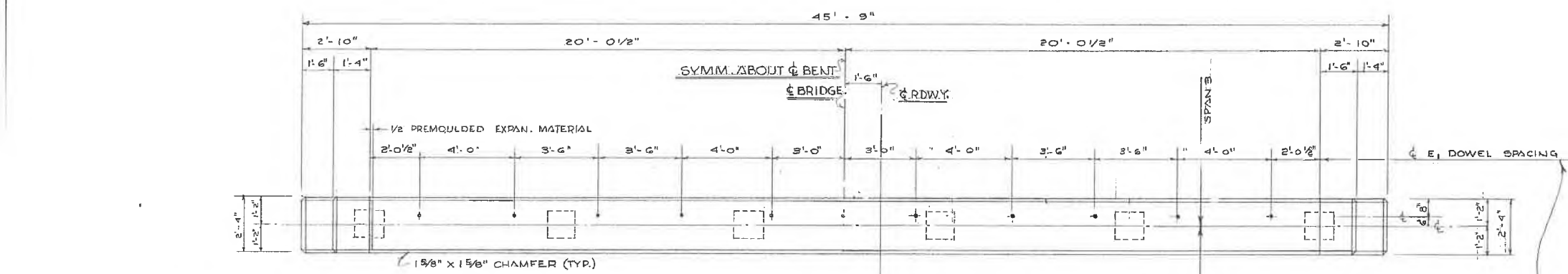
PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT

ABUTMENT NO. 2
ONE REQUIRED

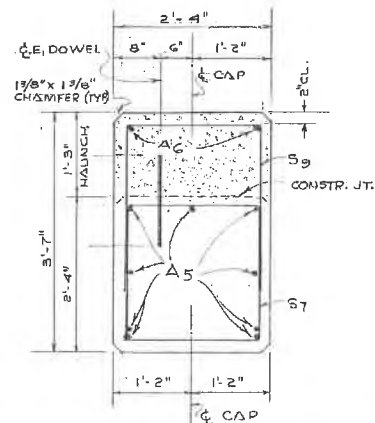
APPROVED: *W. S. S. S.* COUNTY ENGINEER

DRAWN BY	NAME	DATE	SCALE	JOB NO.
TRACED BY	D.R.	2-15-66	AS SHOWN	COP 565.02
CHECKED BY	R.A.C.	3-3-66	DRAWING NO.	3-66-010

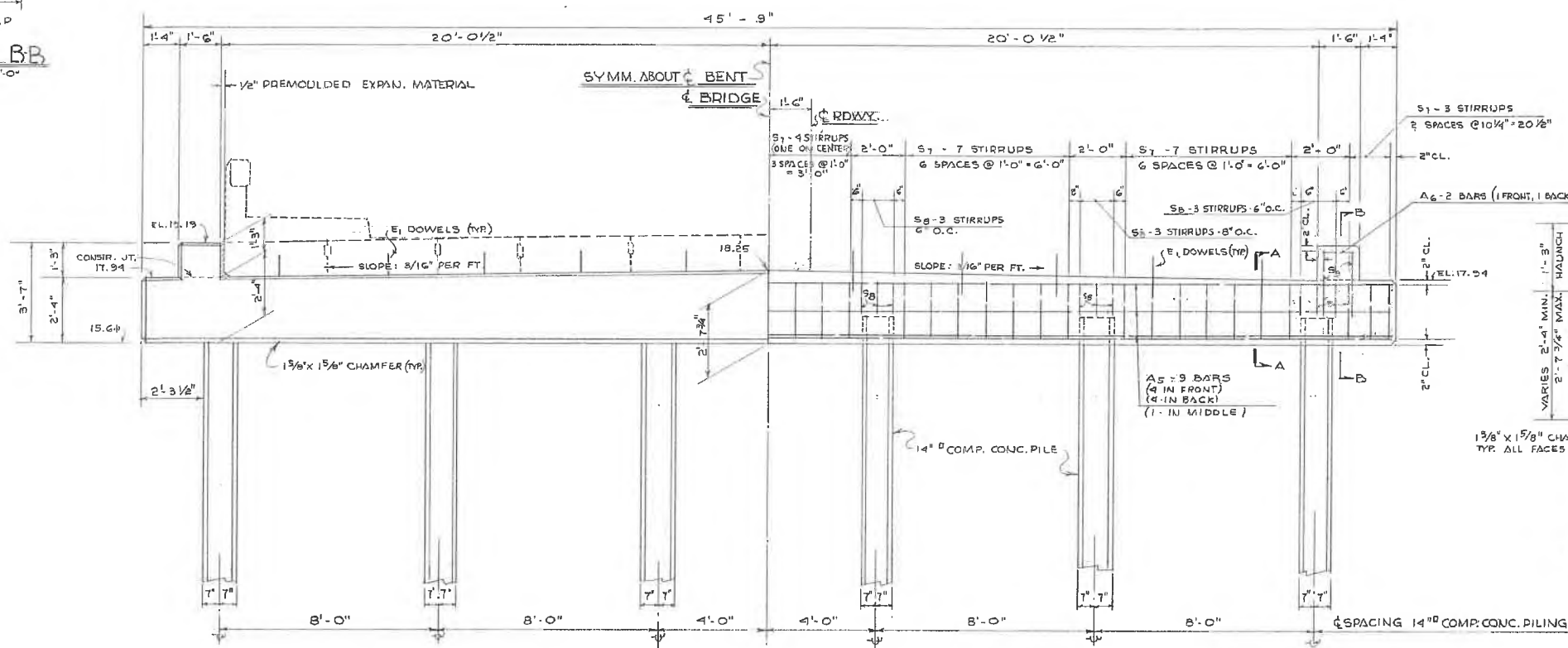
NO.	DATE	REMARKS	BY



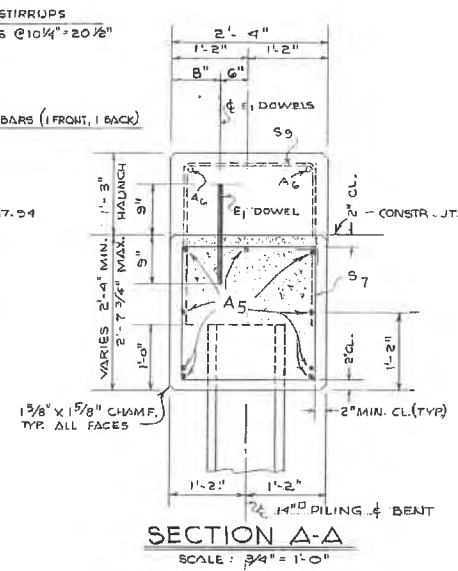
PLAN
SCALE: 3/8" = 1'-0"



SECTION BB
SCALE: 3/4" = 1'-0"

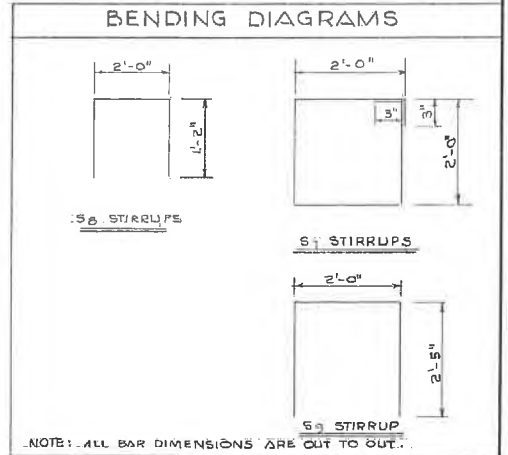


ELEVATION
SCALE: 3/8" = 1'-0"
(LOOKING NORTH)



SECTION A-A
SCALE: 3/4" = 1'-0"

BILL OF REINFORCING STEEL				
MARK	SIZE	Nº REQ'D	LENGTH	BENDING
A5	.8	18	2'-4"	STRAIGHT
A6	5	4	1'-2"	"
S7	4	41	8'-6"	SEE DIAGRAM
S8	4	18	4'-4"	"
S9	4	4	6'-10"	"
E1	4	11	1'-6"	STRAIGHT



ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
CONCRETE CLASS 'A' (3500 P.S.I.)	CU. YDS.	10.20
REINFORCING STEEL	LB'S.	1466.00
COMPOSITE CONC. PILING (14" x 30')	L.F.	150
COMPOSITE CONC. PILING (TEST) (14" x 10')	L.F.	40

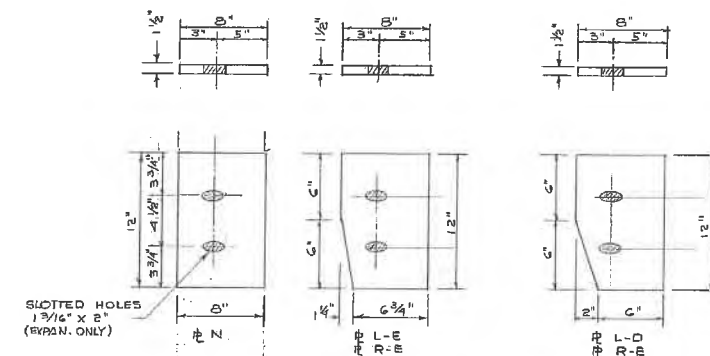
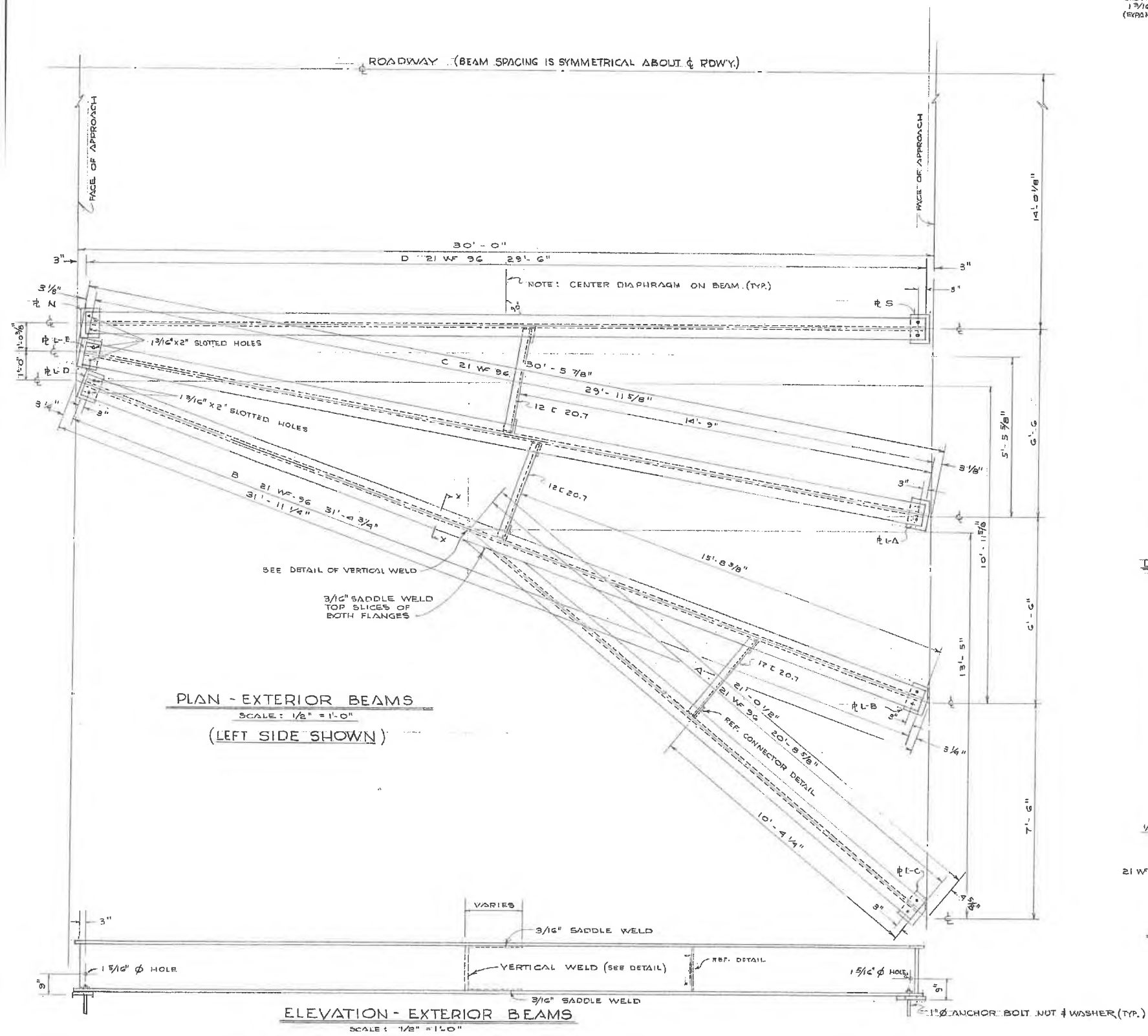
PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT

INTERMEDIATE BENT NO. 2
ONE REQUIRED

APPROVED: *Conrad W. Schauf*
COUNTY ENGINEER

DRAWN BY: D.R. DATE: 2-15-66 SCALE: AS SHOWN JOB NO. C.O.P. 565.02
TRACED BY: R.A.C. DATE: 3-3-66 DRAWING NO. 3-66-010

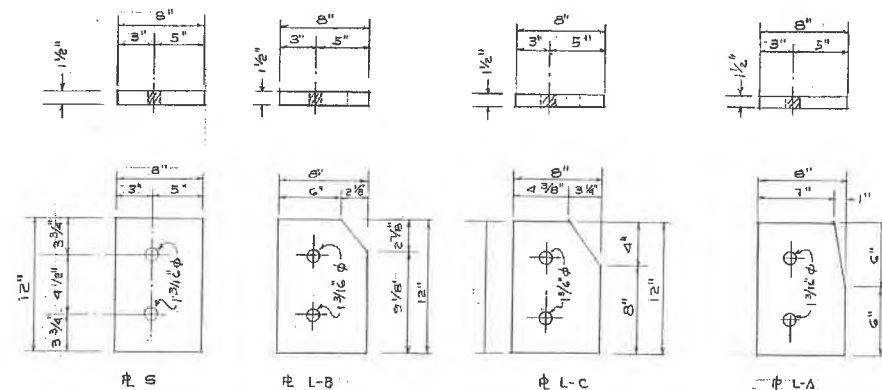
NO.	DATE	REMARKS	BY



DETAILS OF BEARING PLATES (EXPAN.)

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

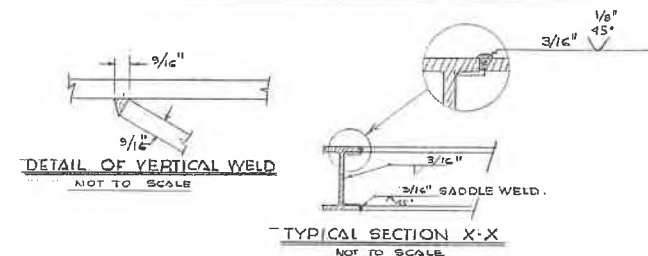
NOTE: ALL PLATES TO HAVE 1/4" NEOPRENE PAD



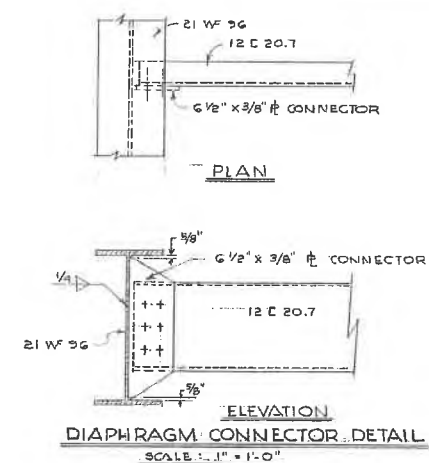
DETAILS OF BEARING PLATES (FIXED)

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

NOTE: ALL PLATES TO HAVE 1/4" NEOPRENE PAD



NOTE: FOR ESTIMATED QUANTITY OF STRUCTURAL STEEL SEE SH. 8 OF IS SHS.



BEAM PLATE SCHEDULE				
PLATE	Nº	DESIGNATION	CUT	TYPE OF HOLE
L-A	1	ABUT. Nº 1 (LEFT SIDE)	SEE DIAGRAM	FIXED
L-B	1	" " " "	" " "	"
L-C	1	" " " "	" " "	"
L-D	1	INT. BENT Nº 1 (LEFT SIDE)	" " "	EXPAN.
L-E	1	" " " "	" " "	"
R-A	1	ABUT. Nº 1 (RIGHT SIDE)	" " "	FIXED
R-B	1	" " " "	" " "	"
R-C	1	" " " "	" " "	"
R-D	1	INT. BENT Nº 1 (RIGHT SIDE)	" " "	EXPAN.
R-E	1	" " " "	" " "	"
N	6	INT. BENT Nº 1	NONE	EXPAN.
S	6	ABUT. Nº 1	NONE	FIXED

* NOTE: ϕ R SHOULD BE CUT FOR RIGHT SIDE OF BRIDGE

FRAMING DETAILS

PALM BEACH COUNTY, FLORIDA
ENGINEERING DEPARTMENT

SUPERSTRUCTURE SPAN NO. 1

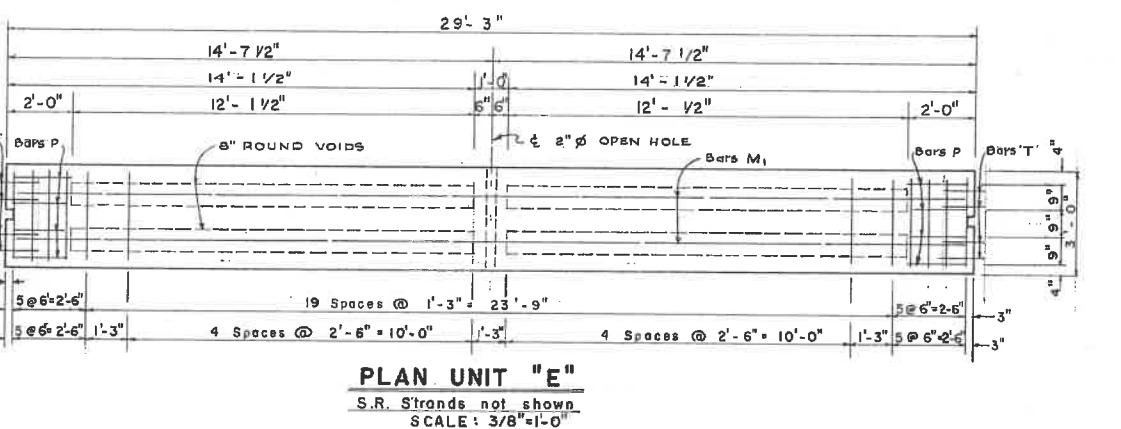
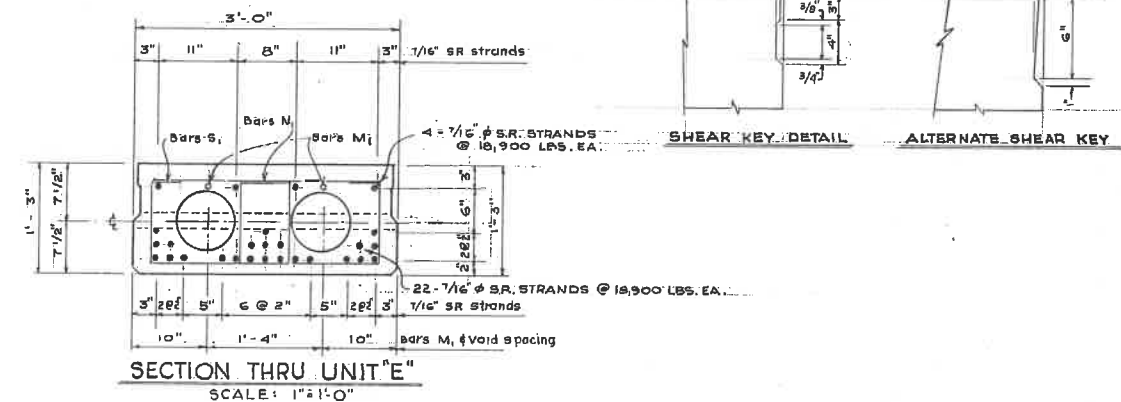
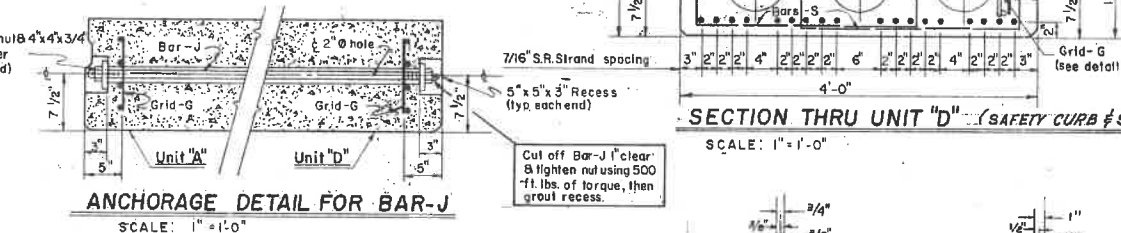
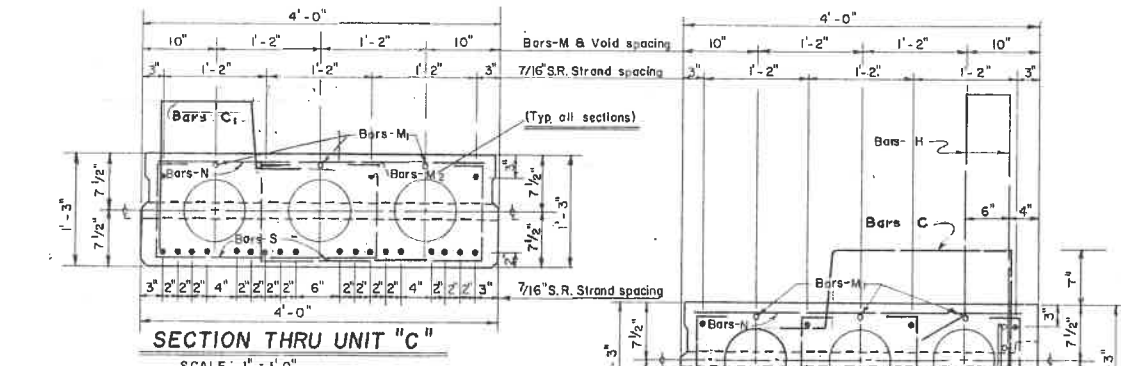
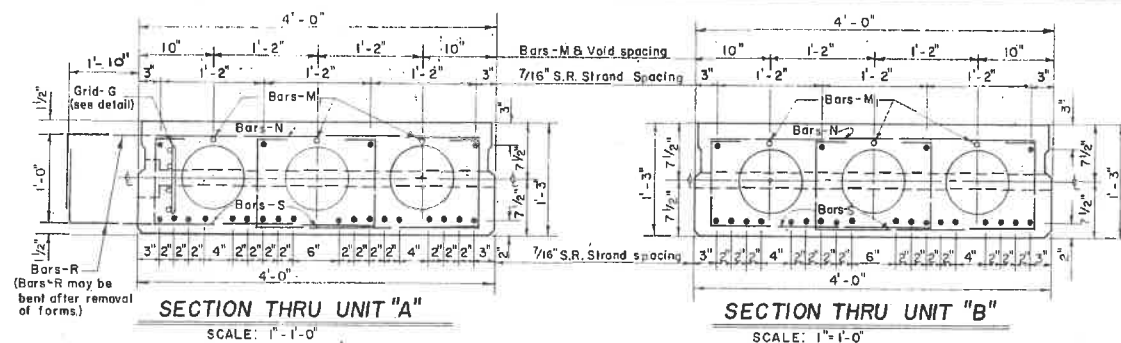
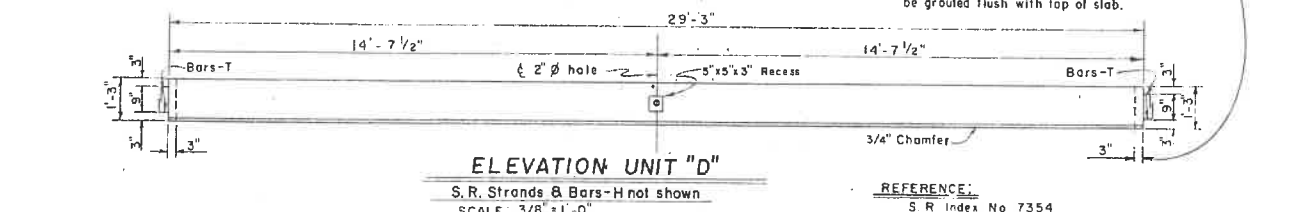
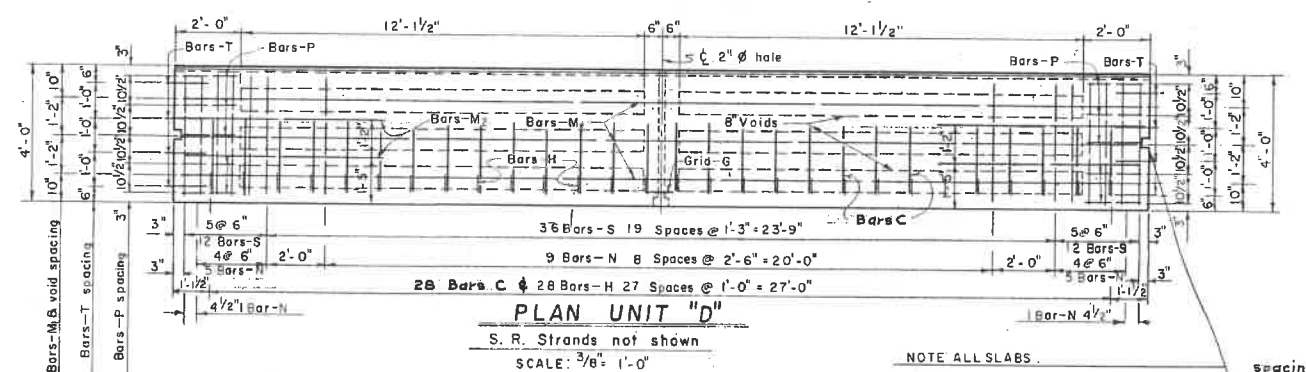
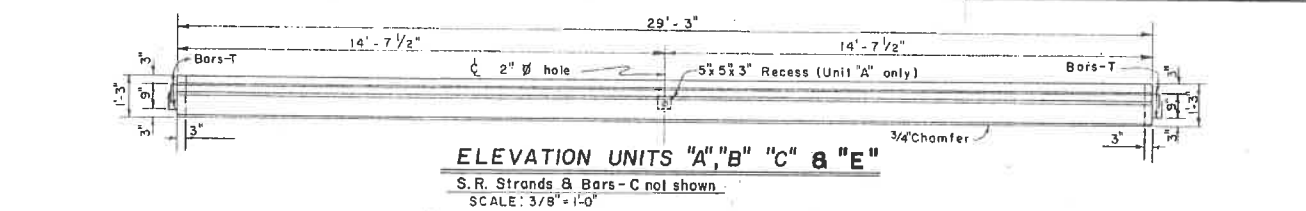
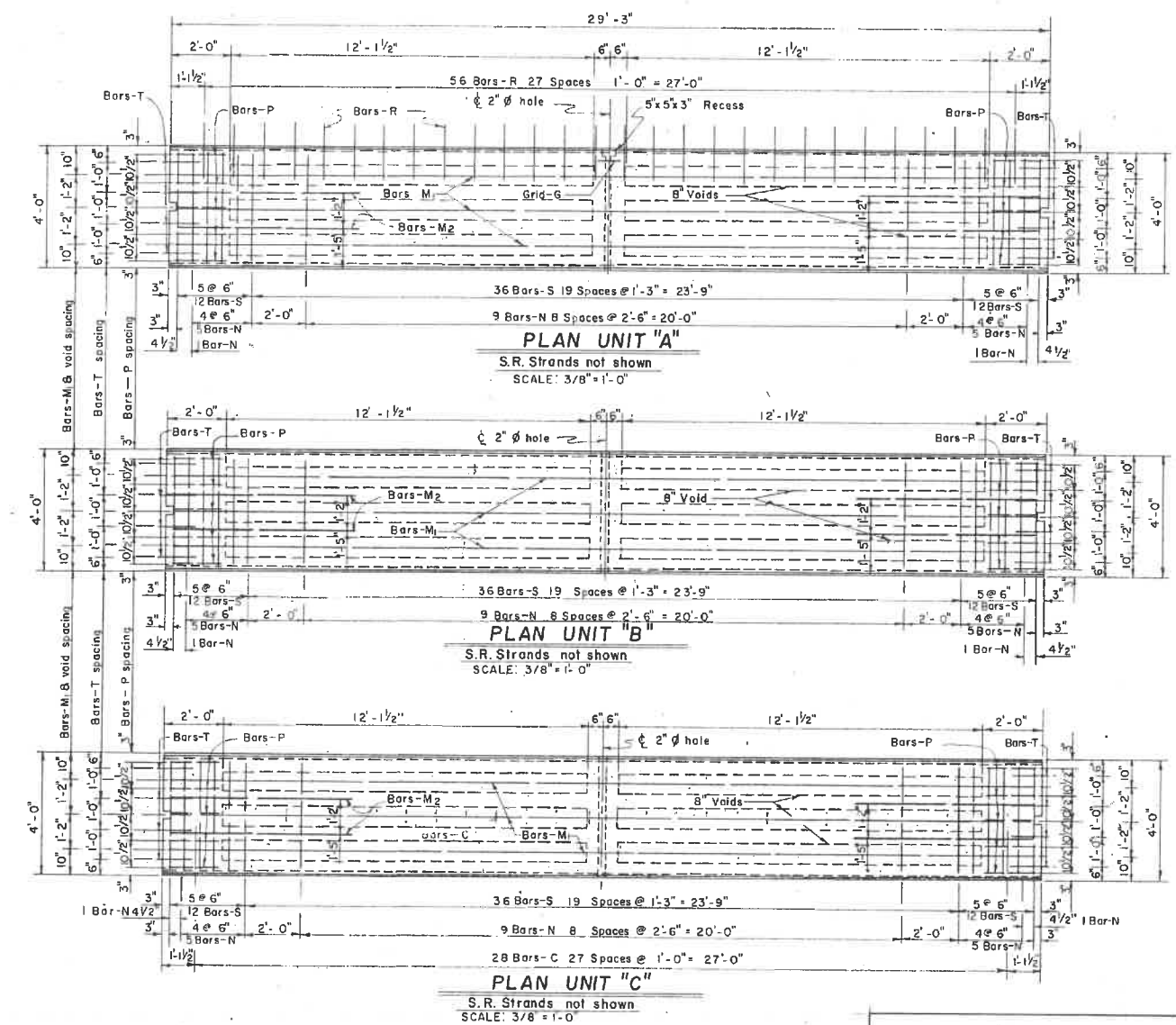
APPROVED	NAME	DATE	SCALE	JOB NO.
	D.R.	2-15-66	AS SHOWN	C.O.P. 565.02
DRAWN BY			DRAWING	
TRACED BY			NO.	3-66-010
CHECKED BY	R.A.C.	3-3-66		

NO.	DATE	REMARKS



BX1-11

91 OF 95



BILL OF REINFORCING STEEL									
I - SPAN									
MARK	SIZE	Total Number Reqd.					LENGTH	BENDING	
		"A"	"B"	"C"	"D"	"E"			
C	3	—	—	—	56	—	5'-0"	See Diagram	
G	3	2	—	28	—	—	4'-11"	" "	
H	4	—	—	—	20	—	7'-2"	" "	
M ₁	3	6	9	3	6	8	28'-11"	Straight	
N	3	42	63	21	42	—	3'-7"	" "	
P	3	20	30	10	20	8	4'-3"	See Diagram	
R	4	112	—	—	—	—	7'-4"	" "	
S	4	120	180	60	120	—	5'-2 1/2"	" "	
T	4	32	48	16	32	32	1'-10"	" "	
M ₂	4	8	12	4	8	—	6'-0"	Straight	
Bar-J	1 1/4" Ø	2 Required					18'-10"	See Diagram	
N ₁	3	—	—	—	40	—	2'-7"	straight	
S ₁	4	—	—	—	120	—	4'-4"	" "	

BENDING DIAGRAM

Bars S: Top left detail showing a cross-section with dimensions 4" (width), 2'-5 1/2" (length), and 1'-0 1/2" (height). A 4" dimension is also shown at the bottom right.

Bar T: Top right detail showing a cross-section with dimensions 1'-3" (width), 2 1/2" (height), and 1'-8" (length). A 7" dimension is shown on the left.

Bars S: Middle left detail showing a cross-section with dimensions 4" (width), 1'-7" (length), and 1'-0 1/2" (height). A 6" dimension is shown at the bottom left.

Bar P: Middle right detail showing a cross-section with dimensions 12" (width), 1" (height), 6" (width), and 1'-0" (length). A 10" dimension is shown at the bottom left.

Bars-H: Bottom left detail showing a cross-section with dimensions 3'-9" (width), 2'-2" (height), and 9" (width). A 10" dimension is shown at the bottom left.

Bar C: Bottom middle detail showing a cross-section with dimensions 1'-10" (width), 1'-0" (height), and 10" (width). A 10" dimension is shown at the bottom left.

Bars-R: Bottom center detail showing a cross-section with dimensions 18'-10" (width), 10" (height), and 10" (width). A 10" dimension is shown at the bottom left.

Grid-G: Bottom right detail showing a cross-section with dimensions 3'-3" (width), 3'-3" (height), and 3'-3" (width). A 10" dimension is shown at the bottom left.

NOTE: Bar dimensions are out to all.

ESTIMATED QUANTITIES — 2- SPANS		
ITEM	UNIT	QUANTITY
* Slab Unit "A"	Each	4
"B"		6
"C"		2
"D"		4
"E"		4

Includes Bars-J & 1/4" 6" graphite asbestos padding & above reinforcing steel.

GENERAL NOTES

PALLETS: All prestressed units shall be cast on concrete based pallets.

CONCRETE: Concrete for prestressed units shall be class - P (f_c = 5000 P.S.I. min) @ 28 days.

CYLINDER STRENGTH: At transfer of tensioning load, the cylinder strength of concrete shall be 4000 P.S.I.

HANDLING: In handling of prestressed units, they must be maintained in an up-right position at all times, and must be picked up at ends to prevent damage.

PAYMENT: The contract unit price shall include S.R. Strands and all reinforcing steel (including Bars - J) and 1/4" x 6' graphite asbestos padding, shipped with the Units.

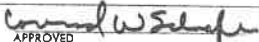
BAR-S-J: Bar-S-J shall be smooth round bars of structural or intermediate grade steel with coarse threads and heavy duty nuts.

FINISH: Slab roadway surface to be steel broom finished and slab sidewalk to be floor broom finished.

FORMS FOR SIDES OF PRESTRESSED UNITS: Metal forms only.

DESIGN LOADING: H 20 - S16 - 44

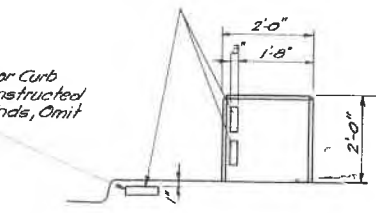
STRAND EXTENSION: All S.R. Strands shall extend 2 1/2' beyond ends of prestressed units.

NO.	DATE	REMARKS	BY
REVISIONS			
PALM BEACH COUNTY, FLORIDA ENGINEERING DEPARTMENT			
<u>PRECAST-PRESTRESSED SLABS</u>			
<u>30'-0" Span</u>		<u>32'-0" Roadway</u>	
 APPROVED		COUNTY ENGINEER	
DRAWN BY	NAME	DATE	SCALE
TRACED BY	D.R.	2-15-66	As Shown
CHECKED BY	R.A.C.	3-3-66	DRAWING
		NO.	3-66-010
			JOB NO. GQR 565.02

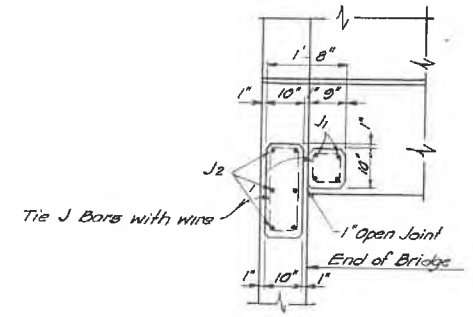
FED. ROAD DIV. No.	STATE	PROJECT No.	FISCAL YEAR	SHEET No.
3	FLA.	58-B-5	58	8-5

Note: Set Reflector plates on right hand End Post and curb as shown. Plates to be furnished by S.R.D. and set in place by the contractor. The Project Engineer shall order these plates from the nearest Maintenance Dept. Cost of installing plates to be included in the contract unit price for concrete Handrail.

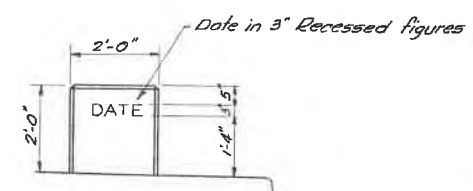
Note: When Box Drain or Curb and Gutter is to be constructed adjacent to Bridge Ends, Omit this Reflector Plate



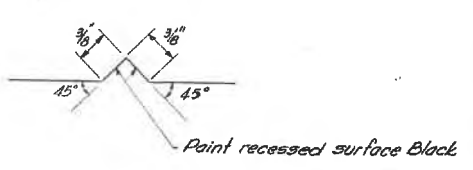
ELEVATION OF END POST
RIGHT SIDE OF ROADWAY



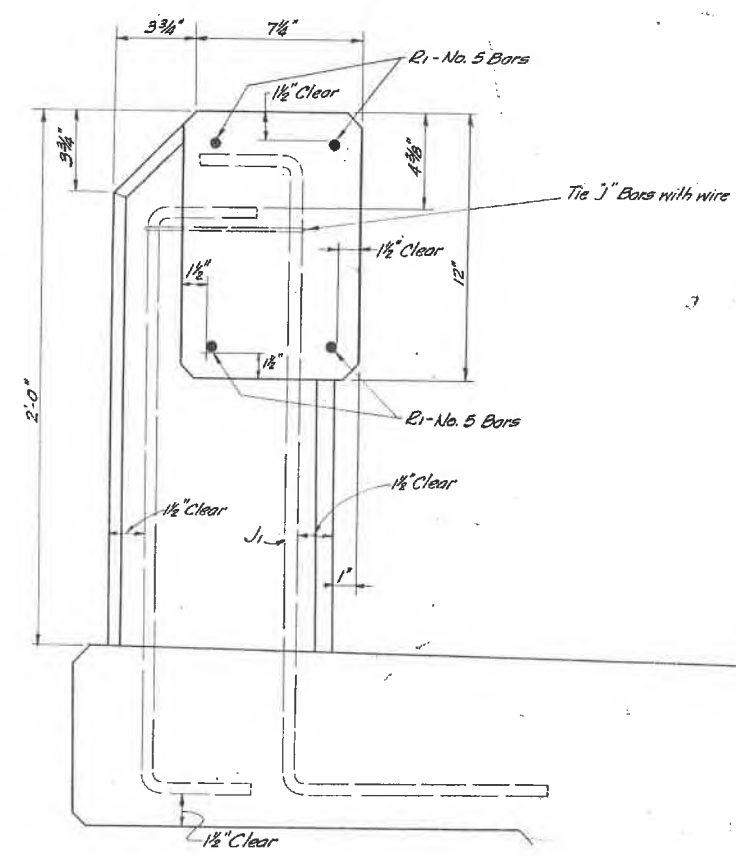
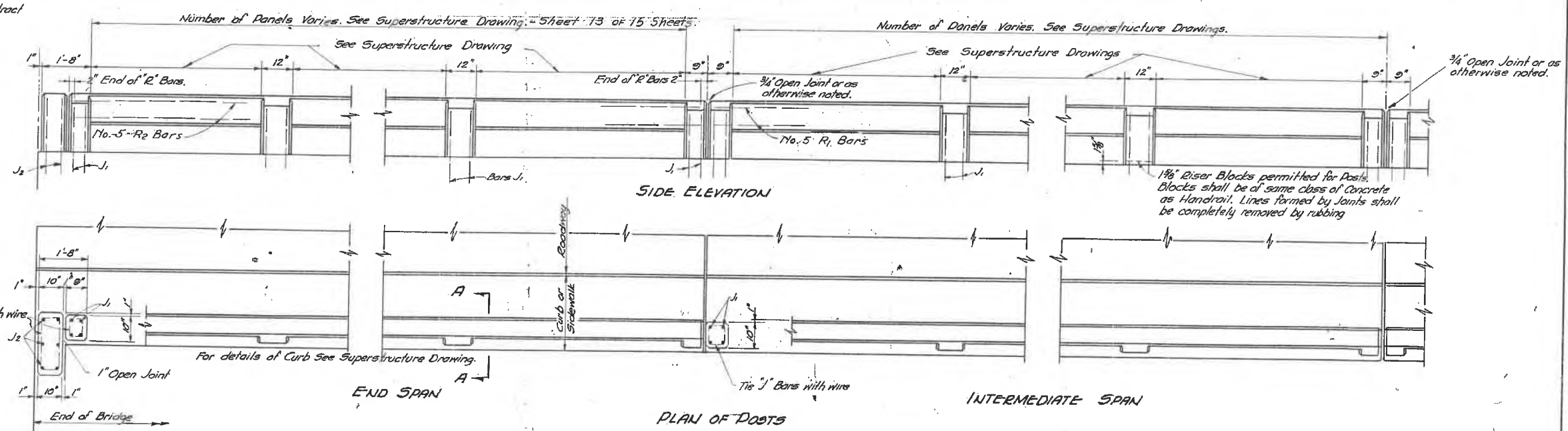
DETAIL AT END OF BRIDGE
WHEN 2'-0" POST RESTS ON SUBSTRUCTURE



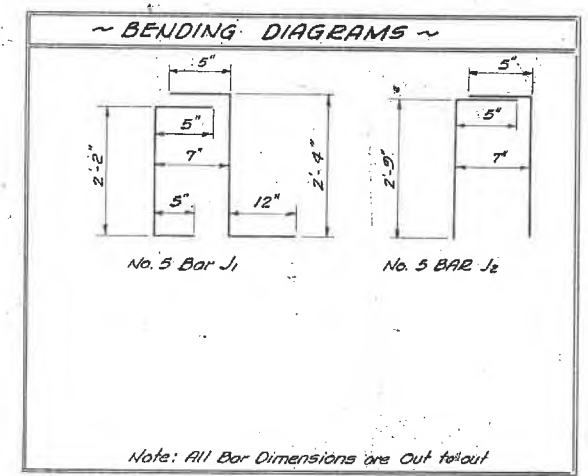
ELEVATION OF END POST
LEFT SIDE OF ROADWAY



SECTION THRU RECESSED V
TO FORM INSCRIBED FIGURES



SECTION A-A



~ GENERAL NOTES ~

CONCRETE: Class "H" Concrete, shall be used in Handrail.
PAYMENT: Handrail shall be paid for per linear foot, which shall include all concrete and Reinforcing Steel.
MARKERS: Markers recording the Elevation shall be placed on top of the Wings of End Bents.
 On bridges longer than 100 feet one marker shall be placed at each end of the bridge.
 On bridges less than 100 feet long one marker shall be placed at one end of the bridge only.
 Markers are to be furnished by the State Road Dept. and installed by Contractor.
 The cost of installing the Markers shall be included in the Contract Unit Price for Concrete Handrail.
CHAMFER: 3/4" chamfer all edges of Handrails and Posts.
FINISH: All exposed concrete surfaces shall be given a Class I finish.

PALM BEACH COUNTY

STATE ROAD DEPARTMENT OF FLORIDA
BRIDGE DIVISION

CONCRETE HANDRAIL

REVISIONS	ROAD NO.	COUNTY	PROJECT NO.
DATES	DESCRIPTIONS	NAMES	DATES
		APPROVED BY	
		DETAILED BY	R.G.W. 7-54
		CHECKED BY	M.W.R. 7-54
		QUANTITIES BY	
		CHECKED BY	
		TRACED BY	R.G.W. 10-54
		ASSISTANT STATE HIGHWAY ENGINEER	
		DRAWING NO.	COP RRR NO
		INDEX NO.	2274