



## **Caribbean Boulevard Bridge Replacement**

### **VOLUME II**

Miami-Dade County

### **DRAWINGS**

**Small Business Enterprise-Construction Program (SBE-S.):**

2%

**Community Workforce Program:**

N/A

**DTPW Capital Improvements Engineer:**

Alicia Arce

**RPQ Issue Date:**

March 20, 2025

## TABLE OF CONTENTS - VOLUME II

---

### SECTION 1: DRAWINGS

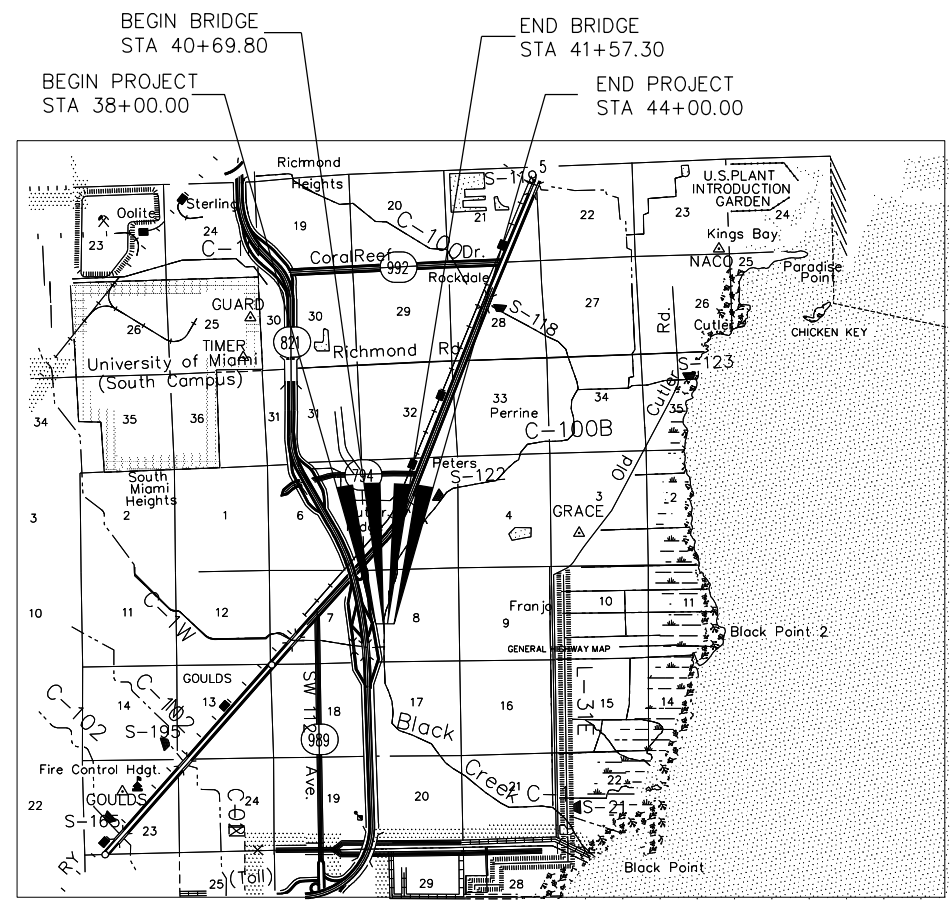
PLANS FOR PROPOSED DRAINAGE IMPROVEMENTS  
CARIBBEAN BOULEVARD BRIDGE REPLACEMENT  
CARIBBEAN BOULEVARD AT THE C1-N CANAL CROSSING

MIAMI-DADE COUNTY PROJECT NO. EDP-MT-CIP209

STORMWATER UTILITY (SWU)

INDEX OF SHEETS

SHT. NO.	SHEET DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3-4	TYPICAL SECTIONS
5-6	SUMMARY OF QUANTITIES
7	GENERAL NOTES
8	PLAN AND PROFILE
9	DRAINAGE STRUCTURES
10-11	ROADWAY CROSS SECTIONS
12	CANAL NOTES AND DETAIL
13-17	CANAL CROSS SECTIONS
18	STORMWATER POLLUTION PREVENTION PLAN
19	EROSION CONTROL PLAN
20-24	TRAFFIC CONTROL PLANS
25	SIGNING AND PAVEMENT MARKINGS SUMMARY OF QUANTITIES
26	SIGNING AND PAVEMENT MARKINGS PLANS
B1-1	BRIDGE GENERAL NOTES
B1-2	PLAN AND ELEVATION
B1-3	CONSTRUCTION SEQUENCE
B1-4	REPORT OF CORE BORINGS
B1-5	FOUNDATION LAYOUT
B1-6	PILE DATA TABLE
B1-7	END BENT 1 OR 4
B1-8	END BENT DETAILS
B1-9	INTERMEDIATE BENT 2 OR 3
B1-10	INTERMEDIATE BENT DETAILS
B1-11	FINISH GRADE ELEVATIONS (1 OF 3)
B1-12	FINISH GRADE ELEVATIONS (2 OF 3)
B1-13	FINISH GRADE ELEVATIONS (3 OF 3)
B1-14	SUPERSTRUCTURE PLAN
B1-15	SUPERSTRUCTURE DETAILS (1 OF 2)
B1-16	SUPERSTRUCTURE DETAILS (2 OF 2)
B1-17	APPROACH SLAB DETAILS
B1-18	REINFORCING BAR LIST
B1-19	LOAD RATING SUMMARY
EB-1 TO EB-17	EXISTING BRIDGE PLANS



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

LENGTH OF JOB		
	LIN. FT.	MILES
ROADWAY	512.50	0.097
BRIDGE	87.50	0.017
GROSS LENGTH OF JOB	600.00	0.114
EXCEPTIONS	0.00	0.00
NET LENGTH OF JOB	600.00	0.114

MIAMI-DADE COUNTY PUBLIC WORKS MANUAL STANDARD DETAILS

SHEET NO.	SHEET DESCRIPTION
14-A	MISCELLANEOUS CONSTRUCTION DETAILS
5-18	EROSION CONTROL DEVICES SILT BARRIERS
DSD-01	SUPPLEMENTARY DETAIL FOR MANHOLES AND INLETS
SMI-02	SUPPLEMENTARY DETAIL FOR MANHOLES AND INLETS
DCI-01	CURB INLET TYPE 1, 2, 3 & 4
SD 3.4	CURB INLET TYPE 5 & 6
DMD-01-1	MISCELLANEOUS DRAINAGE DETAILS (3 SHEETS)
SD 1.1	EXFILTRATION TRENCH (FRENCH DRAIN)
SD 2.6	MANHOLE AND INLET (TYPE J)
GSS-01	STANDARD SYMBOLS FOR KEY SHEETS AND PLAN SHEETS
BGR-01	GUARDRAIL CONSTRUCTION
R12-6	CONCRETE DRIVEWAY
R14-6	CONCRETE VALLEY GUTTER

2019-20 FDOT STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION

SHEET NO.	SHEET DESCRIPTION
102-100	TEMPORARY BARRIER
102-110	TYPE K TEMPORARY CONCRETE BARRIER SYSTEM
102-600	GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
455-001	SQUARE PRESTRESSED CONCRETE PILES - TYPICAL DETAILS AND NOTES
455-002	SQUARE PRESTRESSED CONCRETE PILE SPLICES
455-018	18" SQUARE PRESTRESSED CONCRETE PILE
515-022	PEDESTRIAN/BICYCLE BULLET RAILING DETAILS
520-020	TRAFFIC SEPARATORS
521-427	TRAFFIC RAILING - (36" SINGLE-SLOPE)
521-820	27" CONCRETE PARAPET PEDESTRIAN/BICYCLE WITH BULLET RAILING

PREPARED FOR  
**MIAMI-DADE COUNTY**  
**MIAMI-DADE COUNTY DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS**  
**ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION**

STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

BY  
**Jacobs Engineering Group Inc.**

3150 S.W. 38TH AVENUE, SUITE 700  
MIAMI, FLORIDA 33146  
TEL.: 305-392-5196  
CONTRACT NO. RFP-09-05  
VENDOR NO. F954081636  
CERTIFICATE OF AUTHORIZATION No. 2822

ROADWAY, TCP, & SPM ENGINEER OF RECORD:  
JAWARA JARRETT  
FLORIDA REGISTRATION P.E. No. 87378

DRAINAGE ENGINEER OF RECORD:  
DARREN DYER  
FLORIDA REGISTRATION P.E. No. 73951

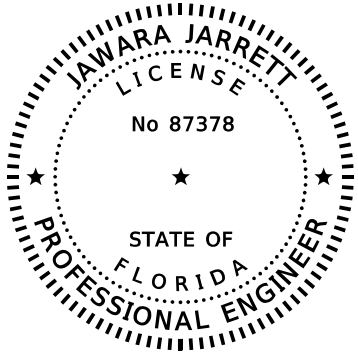
STRUCTURES ENGINEER OF RECORD:  
BRETT K. RAKITA  
FLORIDA REGISTRATION P.E. No. 59474

APPROVED	_____ DIRECTOR
RECOMMENDED	_____ ASSISTANT DIRECTOR
SUBMITTED	_____ ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION
PROPOSED	_____
DESIGN	_____
DATE	OCTOBER 2024
CHECK	_____
DRAWN	_____
SHEET	1 OF 26

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT STANDARDS AND SPECIFICATIONS PARTS 1, 2 AND 3, THE MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2019-20, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JULY 2019, AS AMENDED BY CONTRACT DOCUMENTS.



1/31/2025 1:14:06 PM \\MIAFIL02\Pro\2019 Projects\EGX\2001\700CADD\702CIVIL\oodway\SIGNRD01.dgn JarretJ



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

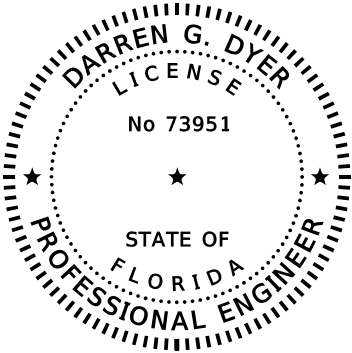
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

JACOBS ENGINEERING GROUP, INC.  
3150 SW 38th AVENUE, STE 700  
MIAMI, FL 33146  
TEL. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION: 2822  
JAWARA JARRETT, P.E. No. 87378

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

ROADWAY, TRAFFIC CONTROL AND SIGNING & PAVEMENT MARKING PLANS

SHEET NO.	SHEET DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3 - 4	TYPICAL SECTIONS
5 -6	SUMMARY OF QUANTITIES
7	GENERAL NOTES
8	PLAN AND PROFILE
10 - 11	ROADWAY CROSS SECTIONS
12	CANAL NOTES AND DETAIL
13 - 17	CANAL CROSS SECTIONS
20 - 24	TRAFFIC CONTROL PLANS
25	SIGNING AND PAVEMENT MARKINGS SUMMARY OF QUANTITIES
26	SIGNING AND PAVEMENT MARKINGS PLANS



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

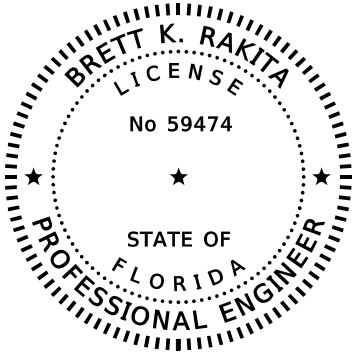
PRINTED COPIES OF THIS DOCUMENT ARE  
NOT CONSIDERED SIGNED AND SEALED  
AND THE SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

JACOBS ENGINEERING GROUP, INC.  
3150 SW 38th AVENUE, STE 700  
MIAMI, FL 33146  
TEL. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION: 2822  
DARREN G DYER, P.E. No. 73951

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

DRAINAGE PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
9	DRAINAGE STRUCTURES
18	STORMWATER POLLUTION PREVENTION PLAN
19	EROSION CONTROL PLAN



THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

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

JACOBS ENGINEERING GROUP, INC.  
201 North Franklin Street, STE 1400  
TAMPA, FL 33602  
TEL. (813) 676-2296  
CERTIFICATE OF AUTHORIZATION: 2822  
BRETT K. RAKITA, P.E. No. 59474

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

STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
B1-1	BRIDGE GENERAL NOTES
B1-2	PLAN AND ELEVATION
B1-3	CONSTRUCTION SEQUENCE
B1-5	FOUNDATION LAYOUT
B1-6	PILE DATA TABLE
B1-7	END BENT 1 OR 4
B1-8	END BENT DETAILS
B1-9	INTERMEDIATE BENT 2 OR 3
B1-10	INTERMEDIATE BENT DETAILS
B1-11	FINISH GRADE ELEVATIONS (1 OF 3)
B1-12	FINISH GRADE ELEVATIONS (2 OF 3)
B1-13	FINISH GRADE ELEVATIONS (3 OF 3)
B1-14	SUPERSTRUCTURE PLAN
B1-15	SUPERSTRUCTURE DETAILS (1 OF 2)
B1-16	SUPERSTRUCTURE DETAILS (2 OF 2)
B1-17	APPROACH SLAB DETAILS
B1-18	REINFORCING BAR LIST
B1-19	LOAD RATING SUMMARY

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

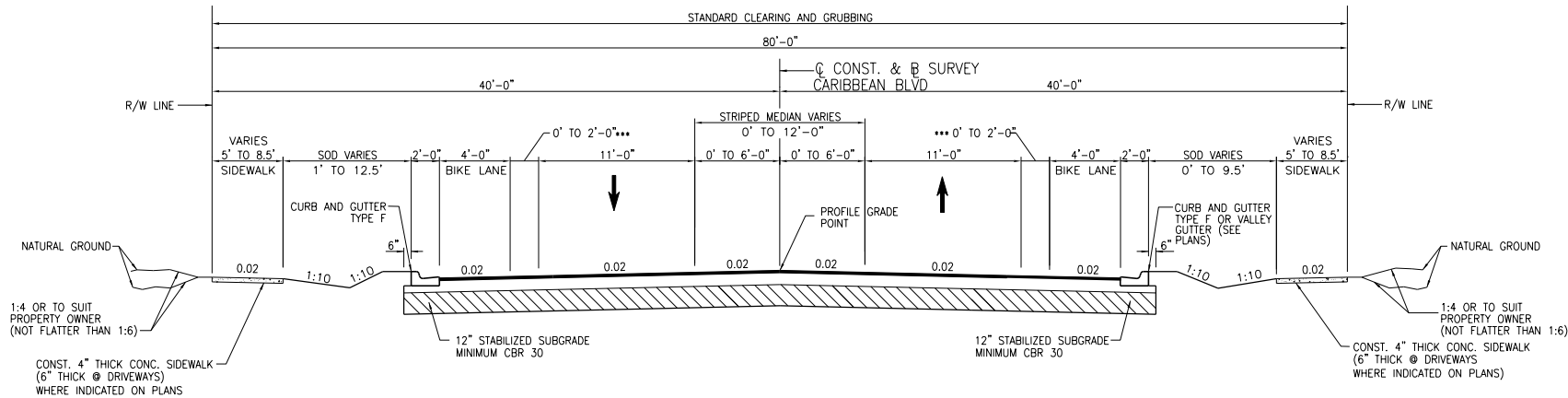
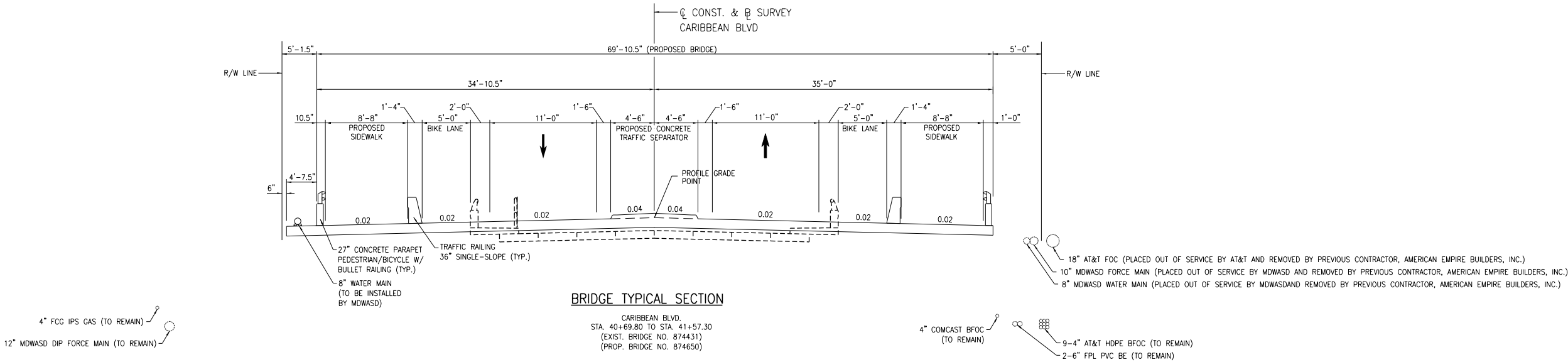
	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

SIGNATURE SHEET





**TYPICAL SECTION NOTES:**

1. ALL EXISTING LIMEROCK BASE THAT IS REMOVED IS TO BE INCORPORATED INTO THE STABILIZED PORTION OF THE SUBGRADE AND IS NOT TO BE USED IN CONSTRUCTION OF THE PROPOSED BASE.
2. EXTEND LIMEROCK BASE (8" THICK) 6" OUTSIDE EDGES OF PAVEMENT AT ALL CONNECTIONS AND INTERSECTIONS TO COUNTY STREETS AND ROADS.
3. STABILIZE ALL TURNOUTS AND INTERSECTIONS TO COUNTY ROADS AND STREETS TO A DEPTH OF 12" MIN LBR 40' AND 12" OUTSIDE EDGES OF PAVEMENT, 6" BACK OF CURB.
4. DROP CURB & DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT CONSTRUCTION. FINAL LOCATION OF DRIVEWAY ACCESS TO BE DETERMINED BY THE ENGINEER.

\*\*\* 2' TO 2'-4" FROM STA. 40+16.63 TO STA. 40+39.80  
AND FROM STA. 41+87.30 TO STA. 42+20.79

SCALE = N.T.S.

**DESIGN SPEED: 35 MPH**

JarrettJ

\\MIAFIL02\Proj\2019 Projects\EG&L2001\700CADD\702CIVIL\roadway\TYPESRD01.dgn

3:12:36 PM

1/31/2025

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

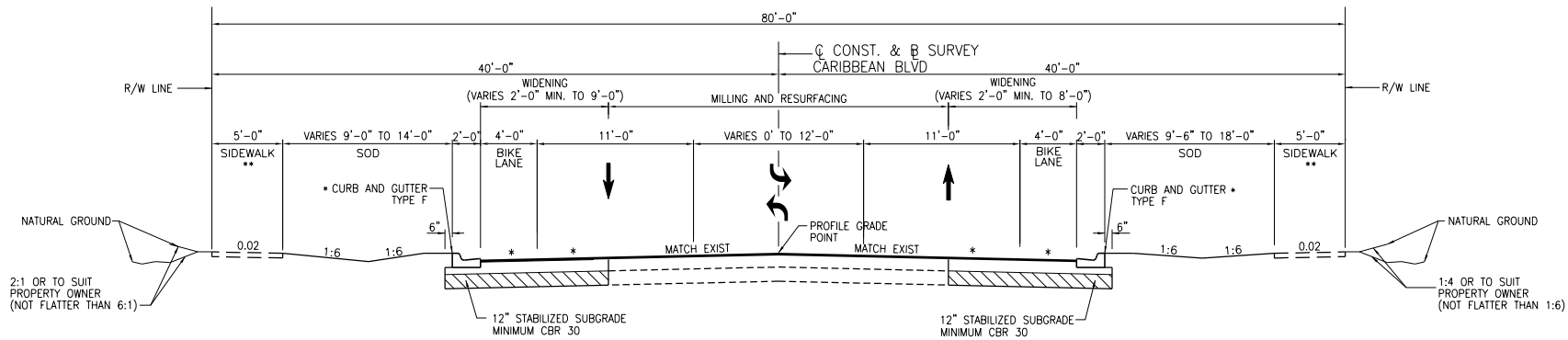
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	CHECKED BY	NAME	DATE	DRAWN BY	CHECKED BY	NAME	DATE
SUPERVISED BY:							



DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

TYPICAL SECTIONS



\* MATCH ADJACENT LANE CROSS SLOPE

**TYPICAL SECTION**

CARIBBEAN BLVD.  
STA. 38+00.00 TO STA. 39+89.40  
STA. 42+58.12 TO STA. 44+00.00

**MILLING**

MILL EXISTING ASPHALT PAVEMENT (1" AVERAGE DEPTH)

**RESURFACING**

RESURFACE WITH TYPE FC-9.5 FRICTION COURSE (1") PG 76-22

**WIDENING**

LIMEROCK BASE (8" THICK) PRIMED WITH  
TYPE SP-9.5 STRUCTURAL COURSE TRAFFIC LEVEL C (2")  
AND TYPE FC-9.5 FRICTION COURSE (1") PG 76-22

\* EXISTING CURB & GUTTER TO  
REMAIN WHERE WIDENING = 0'

\*\* CONST. 4" THICK CONC. SIDEWALK  
(6" THICK @ DRIVEWAYS  
WHERE INDICATED ON PLANS)

SCALE = N.T.S.

DESIGN SPEED: 35 MPH

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

TYPICAL SECTIONS

3/6/2025 8:15:20 PM \\MIAFIL02\Pro\2019 Projects\EG&L2001\700CADD\oodway\SUMORD01\_REV.dgn JarretJ

SUMMARY OF QUANTITIES			
PAY ITEM NO.	ITEM	UNIT	TOTAL QUANTITY
SUMMARY OF ROADWAY PAY ITEMS			
101-1-A*	MOBILIZATION	LS	1
102-1A*	MAINTENANCE OF TRAFFIC	LS	1
102-60A*	WORK ZONE SIGN	ED	20,448
102-71-15	TEMPORARY BARRIER, F&I, ANCHORED	LF	950
102-71-25	TEMPORARY BARRIER, RELOCATE, ANCHORED	LF	1,463
102-74-1	BARRICADES ( TEMPORARY- TYPE I, II, VP, & DRUM).	ED	10,836
102-74-2*	BARRICADES ( TEMPORARY, TYPE III, 6")	ED	1518
102-89-1	TEMPORARY CRASH CUSHION, REDIRECTIVE OPTION	LO	8
102-99A*	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	28
104-10-3	SEDIMENT BARRIER	L.F.	520
104-11	FLOATING SILT BARRIER	L.F.	160
104-15-1*	SOIL TRACKING PREVENTION DEVICE	EA.	2
104-18	INLET PROTECTION SYSTEM	EA.	8
108-1	PROTECTION OF EXISTING STRUCTURES- INSPECTION AND SETTLEMENT MONITORING	L.S.	1
108-2	PROTECTION OF EXISTING STRUCTURES- VIBRATION MONITORING	L.S.	1
110-1-1B*	CLEARING AND GRUBBING	L.S.	1
120-1	REGULAR EXCAVATION	C.Y.	352.0
120-5	CHANNEL EXCAVATION	C.Y.	2,105.0
120-6	EMBANKMENT	C.Y.	1,215.0
160-4	TYPE "B" STABILIZATION (12" THICK) (MIN. CBR 30)	S.Y.	1,117
285-706	OPTIONAL BASE, BASE GROUP 06	S.Y.	1,637
327-70-1A*	MILLING EXISTING ASPHALT PAVEMENT (1 INCH AVERAGE DEPTH)	S.Y.	1,344
334-1-13	SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC C)	TON	95.3
337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22 (1")	TON	47.7
339-1	MISCELLANEOUS ASPHALT PAVEMENT	TON	13.4
425-1-332	INLET, (CURB TYPE P-3) (>10')	EA.	1
425-1-365	CURB INLET TYPE 6 (PARTIAL, AS PER STANDARD STORM DRAINAGE DETAIL SD 3.4)	EA.	1
425-1-452	INLETS (CURB) TYPE J-5 (>10')	EA.	1
425-1-711A*	INLETS, GUTTER TYPE V, <10'	EA.	1
425-6	ADJUST EXISTING VALVE BOXES (MIAMI-DADE COUNTY ONLY)	EA.	6
425-74-1	MANHOLES & INLETS CLEANING & SEALING, <10'	EA.	7
430-94-1-1*	DESILTING PIPE (0 TO 48")	L.F.	270
430-174-115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15" (SIDE DRAIN)	L.F.	4
430-174-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18" (SIDE DRAIN)	L.F.	42
430-174-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36" (SIDE DRAIN)	L.F.	22
443-70-6-3*	FRENCH DRAIN (36" DIAMETER PERFORATED PIPE; TRENCH DEPTH 15 FT. BLS)	L.F.	82
520-1-7	CONCRETE CURB & GUTTER [(TYPE "E") (9" CURB, 18" GUTTER)]	L.F.	170
520-1-10B*	CONCRETE CURB & GUTTER (TYPE F)	L.F.	390
520-30*	VALLEY GUTTER, CONCRETE	L.F.	115
522-1	CONCRETE SIDEWALK (4" THICK RESTORATION AND NEW, CLASS I CONCRETE, 3000 P.S.I)	S.Y.	148
522-2(1)*	CONCRETE SIDEWALK (6" THICK) (INCLUDES DRIVEWAYS)	S.Y.	61
536-1-0	GUARDRAIL - ROADWAY, GENERAL/LOW SPEED TL-2	L.F.	250
536-7-2	SPECIAL GUARDRAIL POST - SPECIAL STEEL POST FOR CONCRETE STRUCTURE MOUNT	EA.	2
536-7-3	SPECIAL GUARDRAIL POST - ENCASED POST FOR SHALLOW MOUNT	EA.	3
536-8-12*	APPROACH TRANSITION CONNECTION TO RIGID BARRIER, FURNISH AND INSTALL, TL-2	EA.	1
536-73	GUARDRAIL REMOVAL (INCLUDES DELIVERY AND UNLOADING AT M-DPW 58TH STREET YARD)	L.F.	285
536-85-20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA.	2
536-85-24C*	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA.	3
570-1-2	PERFORMANCE TURF (SODDING)	SY	1,220
710-11-121	PAINTED PAVEMENT MARKINGS (STANDARD, WHITE, SOLID, 6")	LF	2852
710-11-123	PAINTED PAVEMENT MARKINGS (STANDARD, WHITE, SOLID, 12")	LF	144
710-11-125	PAINTED PAVEMENT MARKINGS (STANDARD, WHITE, SOLID, 24")	LF	188
710-11-160	PAINTED PAVEMENT MARKINGS (STANDARD)(WHITE)(MESSAGE)	EA	9
710-11-170	PAINTED PAVEMENT MARKINGS (STANDARD)(WHITE)(ARROWS)	EA	6
710-11-221	PAINTED PAVEMENT MARKINGS (STANDARD, YELLOW, SOLID, 6")	LF	1299
710-11-241	PAINTED PAVEMENT MARKINGS (STANDARD)(YELLOW)(SKIP)(6")	LF	333

\* DENOTES MDC PAY ITEM NO.

PAY ITEM NOTES

102-1A TO BE ACCOMPLISHED IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION INDEX 102 SERIES, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION (ANSI D6 1-1978), PUBLIC WORKS MANUAL OF METROPOLITAN DADE COUNTY, AND THE LATEST REVISIONS OF THE AFORE MENTIONED MANUALS. INCLUDES THE COST OF FURNISHING, INSTALLING, MAINTAINING, AND REMOVING ALL ITEMS OF MAINTENANCE OF TRAFFIC NOT PAID FOR UNDER SEPARATE ITEMS INCLUDING BUT NOT LIMITED TO TEMPORARY PAVEMENT, TEMPORARY PLATE TO PROTECT EXISTING DRAINAGE INLET, TEMPORARY STANDARD PAINTED PAVEMENT MARKINGS, TEMPORARY RETROREFLECTIVE PAVEMENT MARKERS, ETC. ALSO INCLUDES INSTALLATION AND MAINTENANCE OF TEMPORARY PEDESTRIAN WALKWAYS DURING CONSTRUCTION THAT ARE 2" THICK MISCELLANEOUS ASPHALT AND ARE ADA COMPLIANT. ALSO INCLUDES COST OF REMOVAL AND REINSTALLATION OF EXISTING LIGHT POLE WITH FOUNDATION (AT STA. 39+40, 25' LT, AND INCLUDES REMOVAL AND REPLACEMENT OF PULLBOX AND CONCRETE PAD).

102-71-15 INCLUDES 2" THICK TEMPORARY ASPHALT PAD WHERE NEEDED PER FDOT INDEX 102-100. ALSO INCLUDES BARRIER DELINEATORS PER FDOT INDEX 102-600. 102-71-25

104-11 ESTIMATED QUANTITY FOR PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND SEDIMENT POLLUTION. THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.

110-1-1B INCLUDES REMOVAL OF EXISTING PAVEMENT, CONCRETE SIDEWALK, DRIVEWAYS, CURB AND GUTTER, DRAINAGE STRUCTURES AND PIPES, MISCELLANEOUS CONCRETE, VEGETATION, TREES AND DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR.

120-1 THESE ARE ESTIMATED QUANTITIES AND MAY BE INCREASED OR DECREASED BY THE ENGINEER.

120-6 ANY UNFORESEEN UNSUITABLE MATERIAL (INCLUDING BUT NOT LIMITED TO SILT) ENCOUNTERED IN THE FIELD SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL AS DIRECTED BY THE ENGINEER. THIS ITEM IS CONTINGENT ON ACTUAL FIELD CONDITIONS AND MAY BE INCREASED, DECREASED OR ELIMINATED BY THE ENGINEER. INCLUDES 251 C.Y. OF ROADWAY EMBANKMENT AND 964 C.Y. OF CHANNEL EMBANKMENT.

285-706 LIMEROCK BASE 8" PRIMED. INCLUDES DRIVEWAYS AND BRIDGE APPROACH SLABS.

334-1-13 THE QUANTITY INDICATED FOR LEVELING REPRESENTS AN AVERAGE FOR THE ENTIRE JOB. THE RATE OF APPLICATION OF LEVELING MAY BE INCREASED OR DECREASED AS NECESSARY AT LOCATION DESIGNATED BY THE ENGINEER (ESTIMATED AT 110 LB/SY-IN).

339-1 FOR AREAS NOT SUBJECTED TO VEHICULAR TRAFFIC, NAMELY PAVEMENT UNDER GUARDRAIL AT ROADWAY AND CANAL ACCESS DRIVEWAYS, AS DIRECTED BY THE ENGINEER (ESTIMATED AT 100 LB/SY-IN).

425-6 WITHIN PAVEMENT AREA, VALVE ADJUSTMENTS TO BE DONE BY CONTRACTOR AS NECESSARY. THIS ITEM IS CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED, DECREASED, OR ELIMINATED BY THE ENGINEER.

425-74-1 INCLUDES THE COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.

430-174-115 INCLUDES THE COST OF CONCRETE COLLARS, INCLUDING ALL MATERIAL AND LABOR.  
430-174-118  
430-174-136

443-70-6-3 INCLUDES THE COST OF TRENCH EXCAVATION TO PLAN ELEVATION, PERFORATED PIPE, PEACOCK BALLAST ROCK, PLASTIC FILTER FABRIC AND BACKFILLING WITH SELECT FILL (SEE DETAIL OF EXFILTRATION DRAIN TO DETERMINE NON-PERFORATED PIPE QUANTITY) AND ALL APPLICABLE ITEMS REQUIRED TO CONSTRUCT EXFILTRATION DRAIN.

520-1-7 INCLUDES 5-FT CURB TRANSITIONS AS PER FDOT INDEX 536-001 AND 3 FT OF CURB ENDING AS DIRECTED BY THE ENGINEER.

520-1-10B INCLUDES DROP CURB AT DRIVEWAYS AND 3 FT OF CURB ENDING AS DIRECTED BY THE ENGINEER.

522-1 INCLUDES PEDESTRIAN RAMPS AMD SIDEWALK CURBS.

522-2 INCLUDES DRIVEWAYS. ESTIMATED QUANTITY FOR DRIVEWAYS TO BE CONSTRUCTED AT LOCATIONS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

536-1-0 INCLUDES PIPERAIL AS PER FDOT INDEX 536-001. ALSO INCLUDES SIX (6) ROUNDED END UNITS AND TWO (2) FLARED END UNITS AT CANAL ACCESS DRIVEWAYS. ALSO INCLUDES COST OF SHOP BENT PANELS.

570-1-2 INCLUDES WATERING AND MAINTENANCE. TO BE USED IN THE RESTORATION OF LAWNS AND CANAL BANKS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.

FOR SIGNING AND PAVEMENT MARKING PAY ITEMS, SEE SIGNING AND PAVEMENT MARKING PLANS AND BID FORMS.

PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL PAY ITEMS SHALL BE INCLUDED IN THE UNIT CONTRACT PRICES FOR BID ITEMS.

TOTAL QUANTITIES ARE FOR THE ENTIRE PROJECT AND DO NOT REFLECT ITEMS THAT HAVE BEEN CONSTRUCTED/INSTALLED BY PREVIOUS CONTRACTOR.

SUMMARY OF EARTHWORK	
ITEM	QUANTITY
EXCAVATION (ROADWAY & CHANNEL)	2,457 CY
FILL (ROADWAY & CHANNEL)	1,215 CY
FILL + 30%	1,580 CY

1. SUMMARY OF EARTHWORK IS BASED ON THE CONSTRUCTION OF LIMEROCK BASE 8" THICK AS INDICATED ON THE CROSS SECTIONS.  
2. ANY EXCAVATED MATERIAL, IF UNSUITABLE, SHALL NOT BE USED IN THE CONSTRUCTION OF THE EMBANKMENT.  
3. EXCESS MATERIAL TO BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. NO SEPARATE PAYMENT WILL BE MADE FOR THIS ITEM.  
4. AN ESTIMATED 400 CY OF UNCLASSIFIED MATERIAL IS TO BE DISPLACED BY THE STORM SEWER SYSTEM WHICH INCLUDES THE EXFILTRATION DRAIN AND IS NOT INCLUDED IN THE SUMMARY OF EARTHWORK QUANTITIES. THIS MATERIAL IS TO BE UTILIZED ON THE PROJECT AS DIRECTED BY THE ENGINEER. ANY EXCESS OF MATERIAL IS TO BE DISPOSED OF IN LEGAL AREAS AS PROVIDED BY THE CONTRACTOR.

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel.: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 873378

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
10 NW 1 ST  
MIAMI, FLORIDA 33126

3/6/2025 8:15:20 PM \\MIATL02\Pro\2019 Projects\EGX\2001\700CADD\702CIVIL\oodway\SUMORD01\_REV.dgn JarretJ

PAY ITEM NOTES

110-3 THIS ITEM INCLUDES THE COST OF REMOVAL OF ALL 10" FM, 8" WM, 18" AT&T PIPE AND THRUST BLOCKS, PILES AND CAPS IN CONFLICT WITH THE PROJECT IMPROVEMENTS. ALSO INCLUDES REMOVAL OF EXISTING BRIDGE AND APPROACH SLABS.

530-4-6 INCLUDES COST OF ARTICULATED BLOCK MATTING (ABM), CONCRETE BASE, FILTER FABRIC (TYPE D-2 IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION 985) AND ALL INCIDENTAL ITEMS. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS.

FOR ADDITIONAL BRIDGE PAY ITEM NOTES, SEE BRIDGE GENERAL NOTES SHEET B1-1.

PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL PAY ITEMS SHALL BE INCLUDED IN THE UNIT CONTRACT PRICES FOR BID ITEMS.

TOTAL QUANTITIES ARE FOR THE ENTIRE PROJECT AND DO NOT REFLECT ITEMS THAT HAVE BEEN CONSTRUCTED/INSTALLED BY PREVIOUS CONTRACTOR.

SUMMARY OF BRIDGE PAY ITEMS			
110-3	REMOVAL OF EXISTING STRUCTURE	L.S.	1
400-2-4	CLASS II CONCRETE (SUPERSTRUCTURE)	C.Y.	363.0
400-2-10	CLASS II CONCRETE (APPROACH SLABS)	C.Y.	155.6
400-4-5	CONCRETE CLASS IV (SUBSTRUCTURE)	C.Y.	104.0
400-9-1	BRIDGE DECK PLANING	S.Y.	487
415-1-4	REINFORCING STEEL (SUPERSTRUCTURE)	LB	146,882
415-1-5	REINFORCING STEEL (SUBSTRUCTURE)	LB	11,587
415-1-9	REINFORCING STEEL (APPROACH SLABS)	LB	29,302
455-15-14	PREFORMED PILE HOLES, 24" TO 29" DRILL/PUNCH SIZE	L.F.	34
455-34-3	PRESTRESSED CONCRETE PILING, 18" SQ.	L.F.	1,700
455-133-2	SHEET PILING STEEL, TEMPORARY - CRITICAL	S.F.	7,843
455-143-3	TEST PILES - PRESTRESSED CONCRETE (18" SQ.)	L.F.	210
458-1-11	BRIDGE DECK EXPANSION JOINT (NEW CONSTRUCTION - F&I) (POURED JOINT WITH BACKER ROD)	L.F.	140
515-4-2	BULLET RAIL, DOUBLE RAIL	L.F.	235
520-70	CONCRETE TRAFFIC SEPARATOR, SPECIAL VARIABLE WIDTH	S.Y.	125
521-5-13	CONCRETE TRAFFIC RAILING - BRIDGE, 36" SINGLE-SLOPE	L.F.	255
521-6-1*	CONCRETE PARAPET (PEDESTRIAN/BICYCLE)	L.F.	235
530-4-6	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6"	S.Y.	1,110

\* DENOTES MDC PAY ITEM NO.

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel.: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

SUMMARY OF QUANTITIES

JarrettJ

\\MIATFLO2\Proj\2019 Projects\EGX\2001\700CADD\702CIVL\oodway\GNTRD01.dgn

1:14:14 PM

1/31/2025

GENERAL NOTES

1. B.M. DATA IS NATIONAL GEODETIC VERTICAL DATUM OF 1929 (N.G.V.D.–29).
2. ANY N.G.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED–LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY RON TAYLOR, FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION (FDEP) SURVEYING AND MAPPING, 3900 COMMONWEALTH BLVD., MAIL STATION 105, TALLAHASSEE, FLORIDA 32399–3000 TELEPHONE (850) 245–2606.
3. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED–LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE AT NO ADDITIONAL COST UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO MIAMI–DADE COUNTY PUBLIC WORKS DEPARTMENT A SIGNED AND SEALED COPY OF THE LAND SURVEYOR’S REFERENCE DRAWING.
4. ALL STATIONS AND OFFSETS REFER TO CENTERLINE OF CONSTRUCTION AND BASELINE SURVEY CARIBBEAN BLVD, UNLESS OTHERWISE STATED.
5. ALL GRADES SHOWN IN PLAN ARE FINISHED GRADES.
6. THE CONTRACTOR SHALL PAINT ALL STATIONS WITH STENCILED NUMBERS ON THE FACE OF CURB:

A. FROM THE BEGINNING OF THE PROJECT WHERE THE CURB IS TO REMAIN.

B. AT NEW CURB NOT LATER THAN 72 HOURS AFTER BEING POURED.

C. WHERE CURB DOES NOT EXIST AND SHALL NOT BE CONSTRUCTED, THE CONTRACTOR SHALL MAINTAIN STATIONING WITH SURVEYING STAKES. CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION.
7. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF THE MIAMI–DADE COUNTY PUBLIC WORKS DEPARTMENT, AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION. ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
8. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE EPA AND THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES).
9. THE LOCATION AND SIZE OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION AND SHOULD BE CONSIDERED APPROXIMATE ONLY. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHODS AND BY PRE–TRENCHING IN COORDINATION WITH ALL UTILITY COMPANIES, PRIOR TO BEGINNING ANY CONSTRUCTION OPERATION. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS MUST BE RESOLVED BY THE CONTRACTOR AND THE OWNER. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
10. BASELINE CONTROL SURVEY CONDUCTED BY MIAMI–DADE COUNTY. PLEASE CALL MR. SCOTT RIGGS AT 305–375–2657 CONCERNING SURVEY RELATED QUESTIONS.
11. EXISTING TOPOGRAPHIC INFORMATION WAS OBTAINED FROM SURVEY PREPARED BY MIAMI–DADE COUNTY PUBLIC WORKS DEPT.
12. CONTRACTOR SHALL CONTACT 811 AT LEAST 48 HOURS PRIOR TO PERFORMING ANY DIGGING TO VERIFY THE EXACT LOCATION OF EXISTING UTILITIES. A CONTRACTOR’S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
13. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD AND UNDERGROUND UTILITIES. CONTRACTOR SHALL NOTIFY FPL AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 10 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. FPL AT ITS OPTION SHALL ASSIST THE MDCPW CONTRACTOR AT INSTALLATION SITE IN TAKING SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE HIGH VOLTAGE COMPONENTS.
14. MIAMI–DADE WATER AND SEWER DEPARTMENT (MDWASD) REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. ALL REQUESTS FOR UTILITY ADJUSTMENTS MUST BE MADE IN WRITING AT LEAST TWO (2) WEEKS IN ADVANCE. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION, PUMP STATIONS UNIT, 3071 SW 38 AVENUE, FAX NO. 305–668–3626. THE DEPARTMENT WILL MAKE ONE FINAL AND PERMANENT ADJUSTMENT AT NO COST TO THE REQUESTING AGENCY. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE CHIEF OF METER OPERATIONS AND MAINTENANCE, FAX NO. 305–545–3482. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT 305–805–4575 BEFORE POURING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MDWASD AT 305–274–9272. THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
15. KNOWN UTILITY COMPANIES IN THE PROJECT LIMITS INCLUDE, BUT ARE NOT LIMITED TO:

FPL

AT&T/ DISTRIBUTION

MIAMI–DADE COUNTY PUBLIC WORKS

MIAMI–DADE ENTERPRISE TECHNOLOGY SERVICE

FLORIDA GAS TRANSMISSION COMPANY

COMCAST CABLE

FLORIDA CITY GAS

JOHN GIRALDO

GARTH BEDWARD

LISA PRIDEMORE

LAZARO GUERRA

JOSEPH E. SANCHEZ

LEONARD MAXWELL–NEWBOLD

MARIA LOPEZ

305–442–5172

561–997–0240

305–412–0891

786–268–5273

407–838–7171

954–444–5113

305–835–3650
16. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER, AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING,AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
17. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY SHALL BE RESTORED BY THE CONTRACTOR AT NO ADDITIONAL COST.
18. ANY ENCROACHMENT WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR PROTECTED BY THE ADJACENT PROPERTY OWNER AT THEIR EXPENSE.
19. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
20. ALL GRASS AREAS AFFECTED BY CONSTRUCTION SHALL BE RE–SODDED.
21. THE CONTRACTOR SHOULD TAKE SPECIAL NOTE OF SOIL CONDITIONS THROUGHOUT THIS PROJECT. ANY SPECIAL SHORING, SHEETING OR OTHER PROCEDURES NECESSARY TO PROTECT ADJACENT PROPERTY, PUBLIC OR PRIVATE, DURING THE EXCAVATION OF SUBSOIL MATERIAL AND EXFILTRATION TRENCH, OR FILLING OF ANY AREA, OR FOR ANY OPERATION DURING ONSTRUCTION, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
22. IF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE, OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT. ALL PERMIT’S COST ARE TO BE PAID BY A DEDICATED ALLOWANCE AND THE CONTRACTOR IS REIMBURSED AT INVOICE COST.
24. PRIOR TO PROCEEDING WITH THE WORK, THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT, AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION. NO DESIGNATED STAGING AREA WILL BE PROVIDED BY THE COUNTY.
25. EXPLORATORY OR PRE–TRENCHING IN THE ALIGNMENT AND GRADE OF PROPOSED PIPES STRUCTURES, FRENCH DRAINS, CONDUITS, POLE FOUNDATIONS AND/OR SUB–GRADE SHALL BE PERFORMED SEVEN DAYS IN ADVANCE OF ITS CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY OWNERS AND THE DEPARTMENT WITH IMMEDIATE NOTIFICATION OF ANY CONFLICT WITH PROPOSED CONSTRUCTION. THIS NOTIFICATION SHALL PROVIDE SURVEY INFORMATION ABOUT EXISTING UTILITY ALIGNMENT, GRADE AND POSSIBLE CONFLICTS. PAYMENT FOR EXPLORATORY OR PRE–TRENCHING, SURVEY AND BACKFILLING SHALL BE INCLUDED IN THE COST OF THE RELATED BID ITEM FOR THE WORK BEING DONE.
26. ALL DITCH EXCAVATIONS SHALL BE PERFORMED IN FULL COMPLIANCE WITH THE PROVISIONS OF THE TRENCH SAFETY ACT.
27. ALL EXCESS MATERIAL, AS DESIGNATED BY THE ENGINEER, IS TO BE DISPOSED BY THE CONTRACTOR IN AREAS PROVIDED BY HIM WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION AREA AND AT THE CONTRACTOR’S EXPENSE.
28. ALL DISPOSAL OF MATERIALS, RUBBISH, AND DEBRIS SHALL BE MADE AT A LEGAL DISPOSAL SITE OR BY OTHER PRIOR APPROVED MANNER. MATERIAL CLEARED FROM THE SITE AND DEPOSITED ON ADJACENT OR NEARBY PROPERTY WILL NOT BE CONSIDERED AS HAVING BEEN DISPOSED OF SATISFACTORILY.
29. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ENGINEER, WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE ENGINEER WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION, AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ENGINEER.
30. THE CONTRACTOR SHALL REFERENCE THE ASBESTOS SURVEY REPORT FINALIZED APRIL 2018.
31. EXISTING ABOVE GROUND FEATURES ARE SHOWN ACCORDING TO THE BEST AVAILABLE DATA AND MAY NOT ACCURATELY REFLECT PRESENT CONDITIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH CURRENT SITE CONDITIONS, AND SHALL REPORT DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
32. CONTRACTOR IS TO VERIFY THE EXACT LOCATION OF ALL EXISTING TREES, STRUCTURES AND UTILITIES, WHICH MAY NOT BE SHOWN ON PLANS. ANY STRUCTURE, PAVEMENT, TREES OR OTHER EXISTING IMPROVEMENT NOT SPECIFIED FOR REMOVAL WHICH IS TEMPORARY DAMAGED, EXPOSED OR IN ANY WAY DISTURBED BY CONSTRUCTION PERFORMED UNDER THIS CONTRACT, SHALL BE REPAIRED, PATCHED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER.
33. CONTRACTOR TO RELOCATE TREES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL AVOID DAMAGE TO ANY EXISTING TREES TO REMAIN. EXISTING TREES SHALL BE REMOVED ONLY IF REQUIRED FOR CONSTRUCTION. PRIOR TO CONTRACTOR REMOVING DESIGNATED TREES, PROPERTY OWNER TO BE ADVISED 2 WEEKS IN ADVANCE. THOSE TREES NOT INTERFERING WITH CONSTRUCTION SHALL BE PROTECTED IN PLACE.
34. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
35. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL ITEMS USED IN THIS PROJECT.
36. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
37. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING EXISTING AND NEW INLETS CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS, ETC. DURING THE CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER. ALL LINES AND STRUCTURES SHALL BE CLEANED PRIOR TO FINAL INSPECTION AND ACCEPTANCE.
38. CAST IRON PRODUCTS: HEAVY–DUTY CLASSIFICATION SUITABLE FOR HIGHWAY TRAFFIC LOADS OR 16,000 LBS WHEEL LOADS.
39. STEEL GRATING AND COVERS: TRAFFIC CLASSIFICATION H–20; 16,000 LBS OVER 8"x20" AREA.
40. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE REMOVED UNLESS OTHERWISE NOTED.
41. EXISTING MANHOLES AND INLETS SCHEDULED TO REMAIN SHALL BE THOROUGHLY CLEANED BY REMOVING ALL DEBRIS AND SEDIMENTS, AND THE INTERIOR SHALL BE SEALED WITH AN APPROVED NON–TOXIC BITUMASTIC SEALANT.
42. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY OBVIOUS STRUCTURAL DEFICIENCIES.
43. CONTRACTOR SHALL ADJUST ALL EXISTING CATCH BASINS, GRATES, AND STORM MANHOLE COVERS TO MEET NEW GRADES WHERE APPLICABLE.
44. ELEVATIONS AND OFFSETS SHOWN AT DRAINAGE STRUCTURES REFER TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
45. RADII ON CURB RETURNS ARE TO THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
46. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL VERIFY INVERT ELEVATIONS OF ALL PIPES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF ANY ELEVATION DEVIATIONS.
47. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
48. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION SHOULD BE USED IN THE STABILIZING OPERATIONS AT THESE LOCATIONS.
49. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION, INSTALLATION, AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH SPECIFICATIONS OUTLINED IN THE PUBLIC WORKS DEPARTMENT MANUAL, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT STANDARD PLANS 102 SERIES.
50. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
51. THE LOCATION OF SOME DRIVEWAYS IS APPROXIMATE. VERIFICATION OF EXACT LOCATION AND DIMENSIONS IS RECOMMENDED.
52. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN PLANS.
53. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.

54. CONTRACTOR TO INSTALL 1/2” PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING.
55. THE SIDEWALK AT DRIVEWAY TURNOUTS SHALL BE 6” THICK CONCRETE.
56. PROPOSED SIDEWALKS TO BE INSTALLED IN COMPLIANCE WITH ADA AND MIAMI–DADE COUNTY PUBLIC WORKS MANUAL. EXISTING SIDEWALK IMMEDIATELY ADJACENT TO THE PROPOSED SIDEWALKS MUST BE ADA COMPLIANT, OTHERWISE NEEDS TO BE REPLACED. CONTRACTOR TO REPLACE COMPLETE CONCRETE FLAGS, FROM JOINT TO JOINT (NO PATCHING IS PERMITTED). CONTRACTOR SHALL NOT “MEET AND MATCH EXISTING SIDEWALK,” UNLESS THE EXISTING SIDEWALK IS ADA COMPLIANT. THE MAXIMUM CROSS SLOPE FOR NEW SIDEWALK IS 2%.
57. ALL BUS STOP SIGNS TO BE FURNISHED BY MIAMI–DADE TRANSIT. CONTRACTOR TO CONTACT MIAMI–DADE COUNTY TRANSIT AT (305)637–3753 ONE (1) WEEK PRIOR TO POURING SIDEWALKS AND COORDINATE THE REMOVAL AND REPLACEMENT OF BUS STOP SIGNS AND BENCHES.
58. COMPLETE AS–BUILT INFORMATION RELATIVE TO LOCATION AND DEPTH OF PIPES, MANHOLES, ETC. SHALL BE ACCURATELY RECORDED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER PRIOR TO FINAL ACCEPTANCE OF THE WORK. ALL ELEVATIONS SHALL BE TAKEN BY A FLORIDA REGISTERED SURVEYOR AND SHOWN ON THE RECORD DRAWINGS.
59. DESIGN WATER TABLE ELEVATION: 3.2’ TO 3.4’ NGVD
60. MIAMI–DADE COUNTY FLOOD CRITERIA ELEVATION: 5.7’ NGVD
61. THE INFORMATION PROVIDED IN THESE DRAWINGS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF CONDITIONS WHICH WILL BE ENCOUNTERED DURING THE COURSE OF WORK. THE CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATIONS THEY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSION REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH BIDS WILL BE BASED.
62. ALL EXISTING UNDERGROUND OR ABOVEGROUND UTILITIES PIPES, CABLE DUCTS, EQUIPMENT, DEVICES, ETC. WITHIN OR OUTSIDE THE PROJECT CONSTRUCTION LIMITS WHICH ARE DAMAGED OR DISRUPTED AS A RESULT OF THE CONTRACTOR’S OPERATION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR’S EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER’S AUTHORIZED REPRESENTATIVE. REGARDLESS OF WHETHER THEY WERE SHOWN ON THE PLANS OR LOCATED OR NOT BY THE OWNER’S REPRESENTATIVE, THE UTILITY COMPANY, SUNSHINE STATE ONE CALL OF FLORIDA INC.
63. THIS PROJECT REQUIRES SILTATION CONTROL FENCING, TURBIDITY BARRIER DEPLOYMENTS AROUND THE CANAL ACTIVITIES, AND RUNOFF CONTROL AT PARTIALLY CONSTRUCTED DRAINAGE STRUCTURES. ALL THE COST ASSOCIATED FOR THESE REQUIREMENTS SHALL BE INCLUDED IN THEIR CORRESPONDING PAY ITEMS. FOLLOW MDCPW’S STANDARDS GEC–01, GEC–04 AND GEC–05, AS WELL AS THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (E&SC MANUAL) AND PLACEMENT OF THESE ITEMS SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE BEGINNING OF EACH PHASE OF CONSTRUCTION.
64. CONTRACTOR TO SCHEDULE AND COORDINATE WITH COMCAST (LEONARD MAXWELL–NEWBOLD AT 1–754–221–1254 OR LEONARD\_MAXWELL–NEWBOLD@CABLE.COMCAST.COM) A MINIMUM TWO WEEKS IN ADVANCE OF STAGE 1A MOBILIZATION TO ENSURE COMCAST HAS BOTH DIRECT AWARENESS AND COVERAGE DURING CONTRACTOR’S OPERATIONS. COMCAST WILL HAVE THEIR FIBER RESTORATION TEAMS ONSITE DURING PILE DRIVING INSTALLATION ADJACENT TO THE SOUTHERN FOOTPRINT OF THE NEW BRIDGE.
65. CONTRACTOR TO SCHEDULE AND COORDINATE WITH MDWASD (PATRICK CHONG AT PATRICK.CHONG@MIAMIDADE.GOV) A MINIMUM TWO WEEKS BEFORE MDWASD’S UNDERGROUND INSTALLATION OF PROPOSED 8–INCH WATER MAIN (INCLUDING TRANSVERSE PORTIONS AND CONNECTIONS TO EXISTING WATER MAIN) ON NORTH SIDE OF BOTH BRIDGE APPROACHES DURING STAGE 1B PRIOR TO CONSTRUCTION OF TEMPORARY PAVEMENT.
66. CONTRACTOR TO SCHEDULE AND COORDINATE WITH MDWASD (PATRICK CHONG AT PATRICK.CHONG@MIAMIDADE.GOV) A MINIMUM TWO WEEKS BEFORE MDWASD’S INSTALLATION OF PROPOSED 8–INCH WATER MAIN (INCLUDING ATTACHMENT TO BRIDGE WITH PIPE SUPPORT ASSEMBLIES) ON NORTH SIDE OF BRIDGE DURING STAGE 11 PRIOR TO CONSTRUCTION OF CANAL ACCESS DRIVEWAY ON NORTH SIDE.
67. A PORTION OF THE PROPOSED WORK FOR STAGE 1A WAS COMPLETED BY THE PREVIOUS CONTRACTOR. THIS WORK INCLUDES INSTALLATION OF CONCRETE PILE BENTS 1–4, TEMPORARY SHEET PILES WALLS TW3 & TW4, TEMPORARY BARRIER WALLS, AND TEMPORARY CRASH CUSHIONS. THE CONTRACTOR HAS THE OPTION TO REMOVE THESE ITEMS OR CERTIFY AND RE–USE THEM. IF THE CONTRACTOR ELECTS TO REMOVE THEM, PAYMENT WILL BE COVERED UNDER PAY ITEM 110–3. TEMPORARY BARRIER WALLS AND CRASH CUSHIONS WILL BECOME THE PROPERTY OF THE CONTRACTOR IF THEY ARE RE–USED.

ENVIRONMENTAL NOTES

1. ALL PERSONNEL ASSOCIATED WITH THE PROJECT SHALL BE INSTRUCTED ABOUT THE PRESENCE OF MANATEES AND MANATEE SPEED ZONES, AND THE NEED TO AVOID COLLISIONS WITH AND INJURY TO MANATEES. THE PERMITEE SHALL ADVISE ALL CONSTRUCTION PERSONNEL THAT THERE ARE CIVIL AND CRIMINAL PENALTIES FOR HARMING, HARASSING, OR KILLING MANATEES WHICH ARE PROTECTED UNDER THE MARINE MAMMAL PROTECTION ACT, THE ENDANGERED SPECIES ACT, AND THE FLORIDA MANATEE SANCTUARY ACT.
2. ALL VESSELS ASSOCIATED WITH THE CONSTRUCTION PROJECT SHALL OPERATE AT “IDLE SPEED/NO WAKE” AT ALL TIMES WHILE IN THE IMMEDIATE AREA AND WHILE IN WATER WHERE THE DRAFT OF THE VESSEL PROVIDES LESS THAN A FOUR–FOOT CLEARANCE FROM THE BOTTOM. ALL VESSELS WILL FOLLOW ROUTES OF DEEP WATER WHENEVER POSSIBLE.
3. SILTATION OR TURBIDITY BARRIERS SHALL BE MADE OF MATERIAL IN WHICH MANATEES CANNOT BECOME ENTANGLED, SHALL BE PROPERLY SECURED, AND SHALL BE REGULARLY MONITORED TO AVOID MANATEE ENTANGLEMENT OR ENTRAPMENT. BARRIERS MUST NOT IMPEDE MANATEE MOVEMENT.
4. ALL ON–SITE PROJECT PERSONNEL ARE RESPONSIBLE FOR OBSERVING WATER–RELATED ACTIVITIES FOR THE PRESENCE OF MANATEE(S). ALL IN–WATER OPERATIONS, INCLUDING VESSELS, MUST BE SHUTDOWN IF A MANATEE(S) COMES WITHIN 50 FEET OF THE OPERATION. ACTIVITIES WILL NOT RESUME UNTIL THE MANATEE(S) HAS MOVED BEYOND THE 50–FOOT RADIUS OF THE PROJECT OPERATION, OR UNTIL 30 MINUTES ELAPSES IF THE MANATEE(S) HAS NOT REAPPEARED WITHIN 50 FEET OF THE OPERATION. ANIMALS MUST NOT BE HERDED AWAY OR HARASSED INTO LEAVING.
5. ANY COLLISION WITH OR INJURY TO A MANATEE SHALL BE REPORTED IMMEDIATELY TO THE FWC HOTLINE AT 1–888–404–3922. COLLISION AND/OR INJURY SHOULD ALSO BE REPORTED TO THE U.S. FISH AND WILDLIFE SERVICE IN JACKSONVILLE (1–904–731–3336) FOR NORTH FLORIDA OR VERO BEACH (1–772–562–3909) FOR SOUTH FLORIDA, AND TO FWC AT IMPERILEDSPESIES@MYFWC.COM.
6. TEMPORARY SIGNS CONCERNING MANATEES SHALL BE POSTED PRIOR TO AND DURING ALL IN–WATER PROJECT ACTIVITIES. ALL SIGNS ARE TO BE REMOVED BY THE PERMITEE UPON COMPLETION OF THE PROJECT. TEMPORARY SIGNS THAT HAVE ALREADY BEEN APPROVED FOR THIS USE BY THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) MUST BE USED (SEE MYFWC.COM/MANATEE). ONE SIGN WHICH READS “CAUTION: BOATERS” MUST BE POSTED. A SECOND SIGN MEASURING AT LEAST 8.5” BY 11” EXPLAINING THE REQUIREMENTS FOR “IDLE SPEED/NO WAKE” AND THE SHUT DOWN OF IN–WATER OPERATIONS MUST BE POSTED IN A LOCATION PROMINENTLY VISIBLE TO ALL PERSONNEL ENGAGED IN WATER–RELATED ACTIVITIES. QUESTIONS CONCERNING THESE SIGNS CAN BE SENT TO THE EMAIL ADDRESS LISTED ABOVE.

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

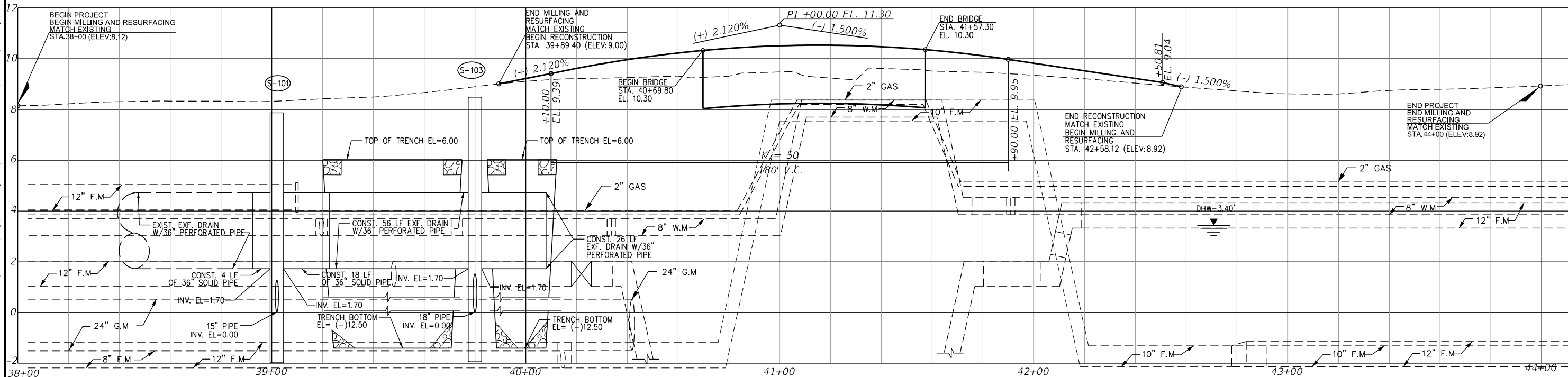
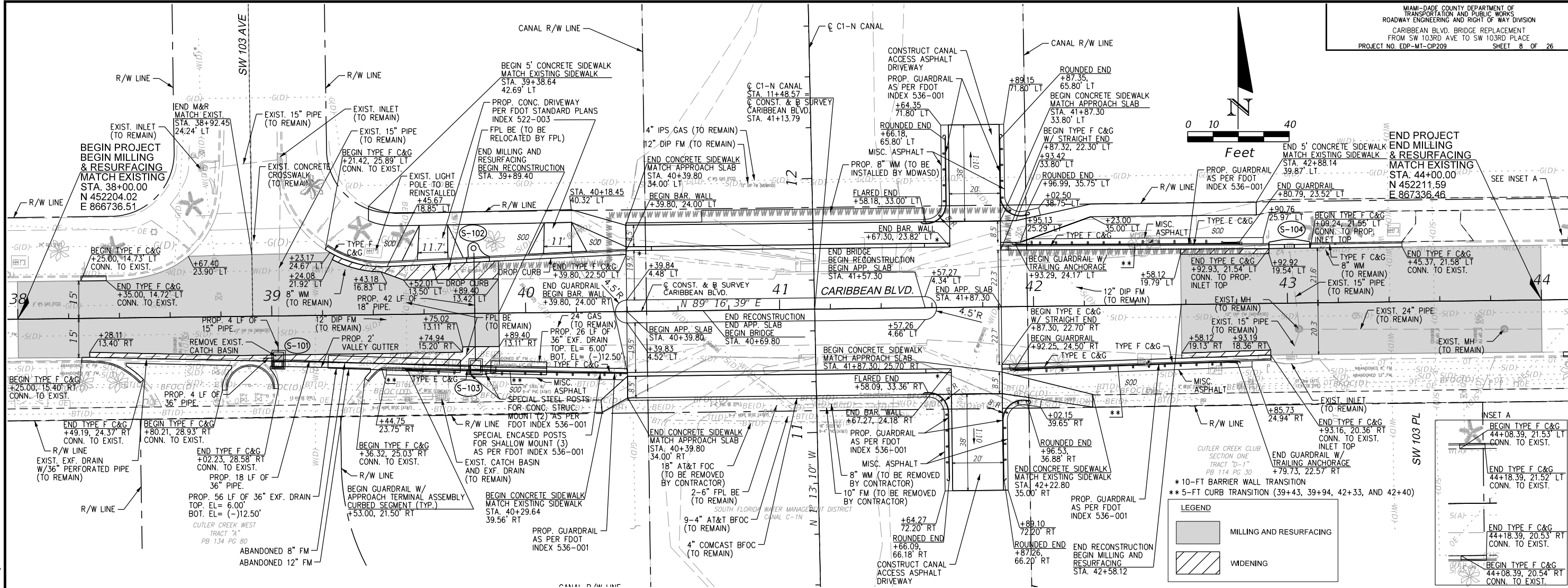
	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI–DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
101 NW 1st  
MIAMI, FLORIDA 33126

GENERAL NOTES

CARIBBEAN BLVD. BRIDGE OVER C1–N CANAL



REVISIONS						DESIGN					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

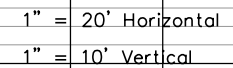
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT  
P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
101 NW 1st St  
MIAMI, FLORIDA 33128

PLAN AND PROFILE

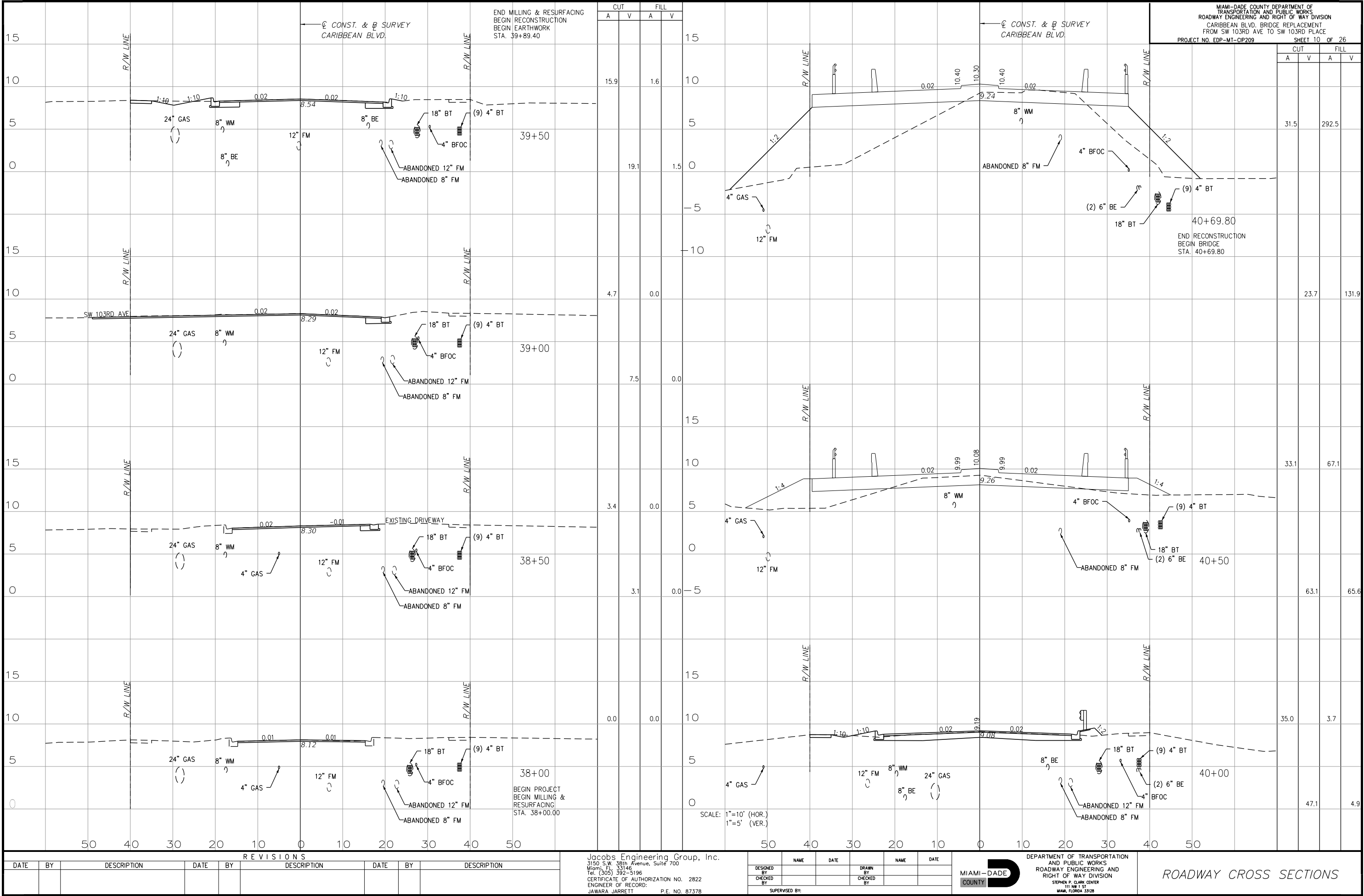


Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
DARREN G. DYER P.E. NO. 73951

MIAMI-DADE  
COUNTY

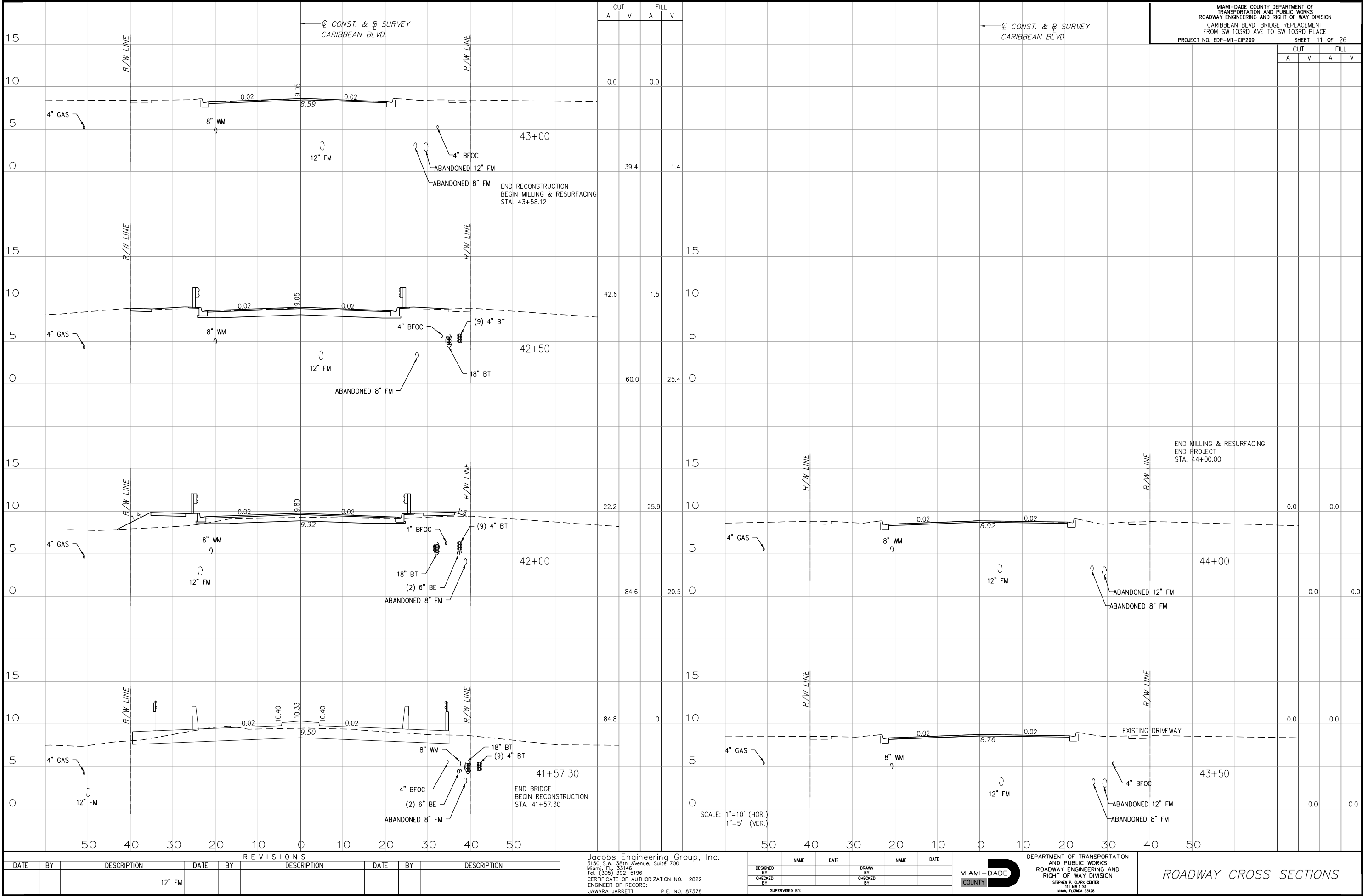
## DRAINAGE STRUCTURES

\\MIATL02\Pro\2004\Projects\EGX\2001\700CADD\702CIVIL\Roadway\RDXSRO02.dgn 1/31/2025 1:22:58 PM





\\MIATL02\Projects\2004\Projects\EGX\2001\700CADD\702CIVIL\Roadway\RDXS002.dgn 1/31/2025 1:22:58 PM

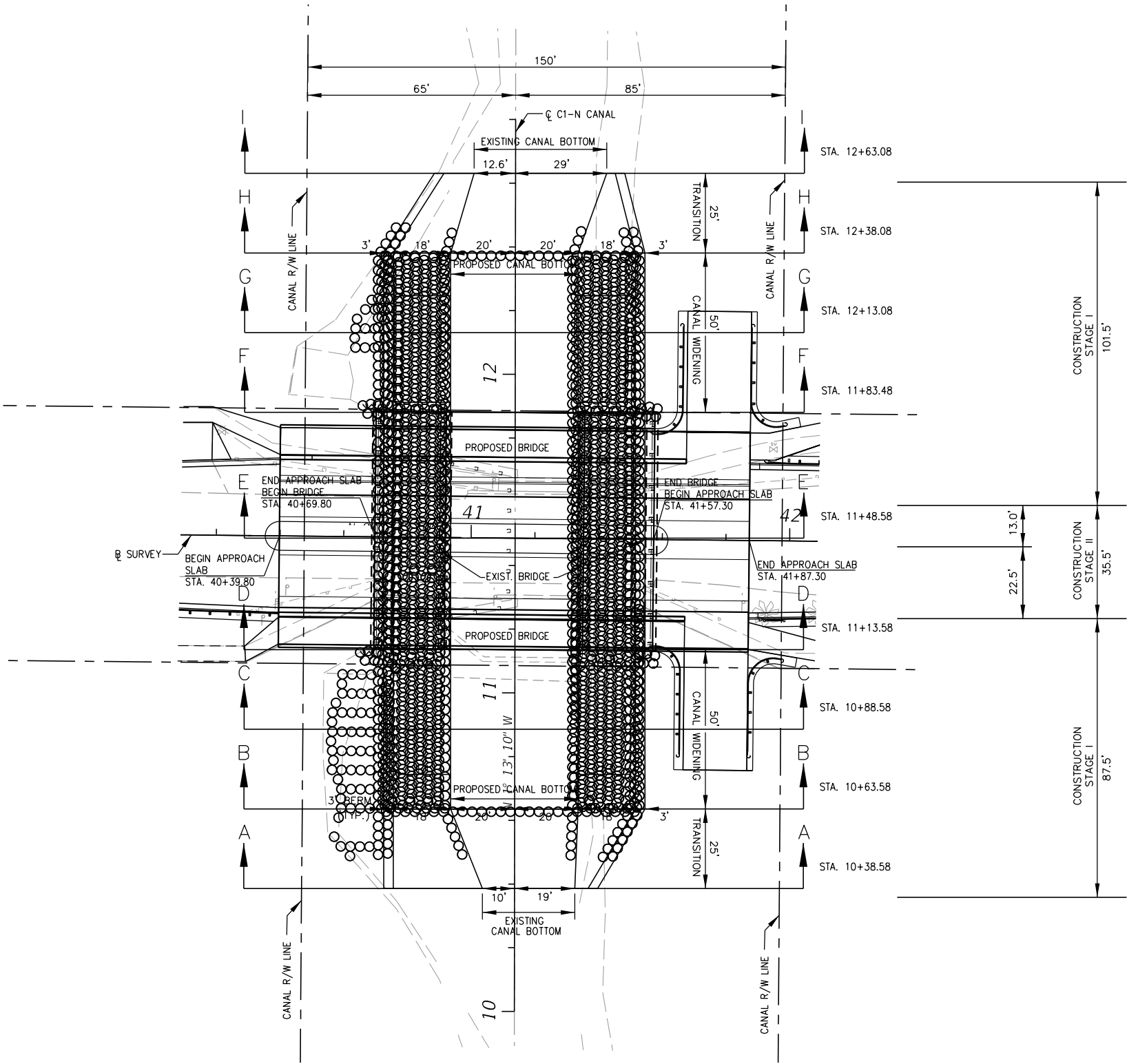


NOTES:

1. REFER TO SHEET B1-2 FOR CANAL SLOPE REVETMENT DETAILS.
2. REFER TO CANAL CROSS-SECTIONS ON SHEETS 12 THRU 16.
3. CANAL TRANSITIONS DO NOT INCLUDE REVETMENT.
4. REFER TO SHEET B1-3 FOR CONSTRUCTION STAGING.
5. TURBIDITY BARRIER SHALL BE PROVIDED AT ALL STAGES OF CANAL CONSTRUCTION INCLUDING EXCAVATION AND PLACEMENT OF ARTICULATED CONCRETE BLOCK. REFER TO STORMWATER POLLUTION PREVENTION PLAN AND EROSION CONTROL PLAN FOR ADDITIONAL REQUIREMENTS.

LEGEND:

 ARTICULATED CONCRETE BLOCK (ACB)



1/31/2025 1:24:33 PM \\MIAFIL02\Pro\2019 Projects\EGX\2001\700CADD\702CIVIL\oodway\SPOTRD01\_REV.DGN JorretJ

1/31/2025

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

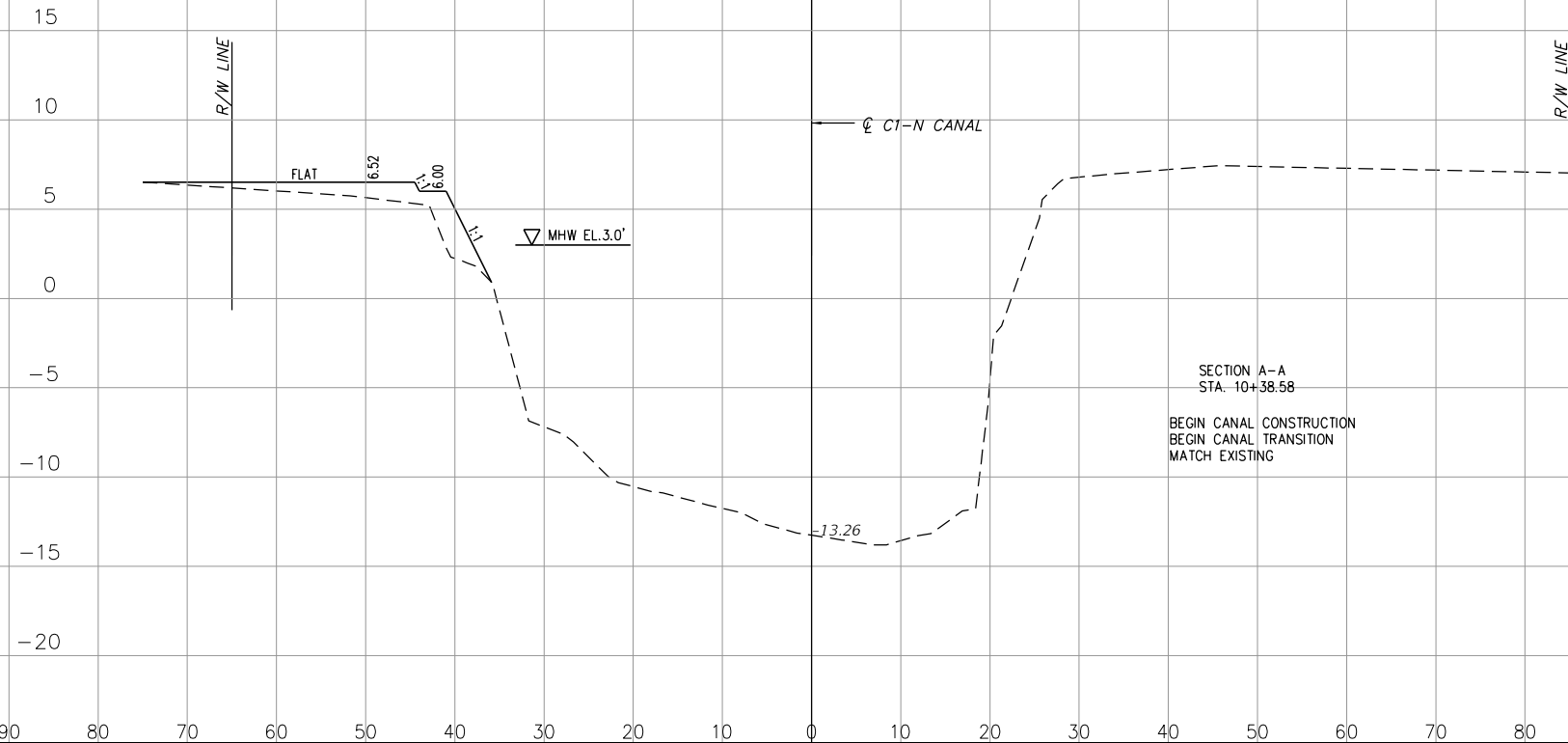
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
11 NW 1 ST  
MIAMI, FLORIDA 33126

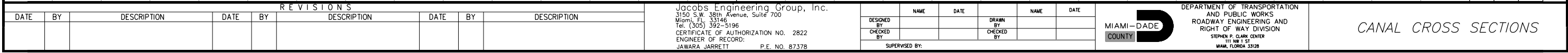
CANAL NOTES AND DETAIL



### CANAL CROSS SECTIONS

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

MIAMI-DADE  
COUNTYMIAMI-DADE  
COUNTY



SCALE: 1"=10' (HOR.)  
1"=5' (VER.)

## CANAL CROSS SECTIONS

1/31/2025 1:25:34 PM \\MIAFIL02\Proj\2019 Projects\EG\2001\700CADD\702CIVIL\oodway\RD\SRD01.dgn

15  
10  
5  
0  
-5  
-10  
-15  
-20

R/W LINE

FLAT

8.05

1:1

6.00

1:1

MHW EL. 3.0'

C1-N CANAL

R/W LINE

SECTION F-F  
STA. 11+83.48

15  
10  
5  
0  
-5  
-10  
-15  
-20

R/W LINE

MHW EL. 3.0'

C1-N CANAL

R/W LINE

SECTION E-E  
STA. 11+48.58

SCALE: 1"=10' (HOR.)  
1"=5' (VER.)

CUT		FILL	
A	V	A	V
338.2		163.4	
495.5		105.6	
428.6		0.0	
580.4		46.2	

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

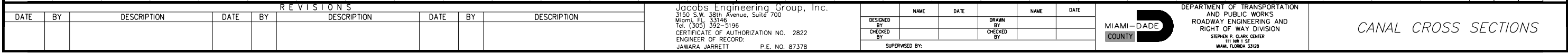
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

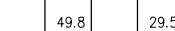


DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST.  
MIAMI, FLORIDA 33128


CANAL CROSS SECTIONS



CUT		FILL	
A	V	A	V
107.6		63.7	
	103.5		152.0
116.0		264.6	
	248.9		234.6



### CANAL CROSS SECTIONS


 DEPARTMENT OF TRANSPORTATION  
 AND PUBLIC WORKS  
 ROADWAY ENGINEERING AND  
 RIGHT OF WAY DIVISION  
 STEPHEN P. CLARK CENTER  
 111 NW 1 ST  
 MIAMI, FLORIDA 33128

1/31/2025 1:27:03 PM \\MIAFIL02\Projects\2004\Projects\EGX\2001\700CADD\702CIVIL\drainage\SWPPRD01.dgn

STORMWATER POLLUTION PREVENTION PLAN

Narrative Description

The Stormwater Pollution Prevention Plan (SWPPP) Narrative Description contains references to the Contract Documents, the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (E&SC Manual), the FDOT Design Standards, and other sheets of these Construction Plans. The complete SWPPP is comprised of several items including: this narrative description, the documents referenced in this narrative, the Contractor's approved Erosion Control Plan (ECP) prepared and submitted in accordance with the Contract Documents, and reports of inspections made during construction. All of which are complementary to the signed and certified SWPPP if one is provided by the Department. Contractor is required to maintain copies of the aforementioned items on site, including all applicable permits.

1. Site Description

- 1.a. Nature of Construction Activities: The project consists of reconstructing existing roadway and bridge, milling and resurfacing, self-contained drainage system, and widening of the SFWMD C-1N canal bottom approximately 50' north and south of the proposed bridge.
- 1.b. Sequence of Major Soil Disturbing Activities: The Contractor shall provide in the ECP a detailed sequence of construction for all construction activities. Each construction phase requires the installation of perimeter control, after clearing and grubbing as necessary for the installation of the controls, prior to beginning any work. The Contractor shall follow the sequence of major activities below, unless the Contractor proposes a different sequence that is equal or better at controlling erosion and trapping sediment and is approved by the Engineer.
- 1) Clearing and grubbing, earthwork, and drainage improvements construction.  
2) Final grading and landscaping where necessary.
- 1.c. Area Estimates (Acre)
- 1) Total Site Area: 1.20 A.C.  
2) Total Area of the site that is expected to be disturbed: 1.20 A.C.
- 1.d. Existing data describing the soil or the quality of any discharge from the site and an estimate of the size of the drainage area for each discharge point:
- 1) Rational runoff coefficient  
a) For Pervious Areas: 0.25  
b) For Impervious Areas: 0.95
- 2) Existing data describing the soil or the quality of discharge from the site: According to the United States Department of Agriculture Natural Resources Conservation Service Soil Survey Report of Dade County Area, Florida, the soil encountered on the project is marl with rock limestone.
- 3) The size of the drainage area for each outfall: N/A . This project has no outfall.
- 4) The location of each outfall is provided in item 1.f. below. N/A . This project has no outfall.
- 1.e. Site Map: The associated construction plan sheets will be used as the site map. Locations of the required information are described below. The sheet numbers for all items discussed are identified on the Cover Sheet of the construction plans.
- 1) Drainage patterns and approximate slopes anticipated after major grading activities: The slopes of the site can be seen on the construction plan sheets.
- 2) Areas of Soil Disturbance: The areas to be disturbed are indicated on the construction plan sheets. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.
- 3) An outline of areas which may not be disturbed: These areas of the Project outside the clearing and grubbing and construction activities which comprised of those that are not subject to any soil disturbing activities.
- 4) The location of major structural and nonstructural controls identified in the plan: Temporary sediment control devices shall be installed all locations where disturbance of solids will occur. Additional measures may be required as necessary where stormwater runoff has the potential to reach surface waters or offsite stormwater collection facilities.
- 5) The location of areas where stabilization practices are expected to occur, surface waters, wetlands and locations where stormwater is discharged to a surface water or MS4: Areas of permanent stabilization are shown on the Construction Plan Sheets.
- 1.f. Discharge point(s): N/A. This project has no outfall.

2. Controls

- 2.a. Erosion and Sediment Controls: The Contractor shall describe in the ECP the proposed stabilization and structural practices. The Contractor may choose to accept the following guidelines or modify them in the ECP, subject to approval by the Engineer. As work progresses, the Contractor shall modify the plan to adapt to seasonal variation, changes in construction activities, and the need for better management practices. For each construction phase install perimeter controls after clearing and grubbing necessary for installation of controls but before beginning other work for the construction phase. Remove perimeter controls only after all upstream areas are stabilized. In addition :
- . Furnish and place inlet protection systems to control erosion and siltation.
- . Install soil tracking prevention devices (STPDs) at all common areas where construction vehicles will be entering and exiting the construction site.
- . Sediment barriers shall be installed and at the toe of slope of embankments and at locations as described in the Erosion and Sediment Control Details and the E&SC Manual.
- . Inlet protection systems shall be used for all existing and proposed inlets subject to sediment runoff.
- . Clearing and grubbing operations will be controlled so as to minimize unprotected erodible areas exposed to weather. Areas outside the limits of construction shall not be disturbed.
- . Excavated material shall not be deposited in locations where the material could be washed away by high water, rain or stormwater runoff. Stockpiles shall be covered or encircle with sediment barriers.

- 2.a.1. Stabilization Practices: In the ECP, the Contractor shall describe the stabilization practices proposed to control erosion. The Contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the Engineer.
- a) Temporary: Includes sod, mulch, and artificial coverings in accordance with the Contract Documents.
- b) Permanent: Includes asphalt or concrete surface, sod, and roadside swales in accordance with the Contract Documents.
- 2.a.2. Structural Practices: In the ECP, the Contractor shall describe the proposed structural practices to control trap sediment and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following, unless otherwise approved by the Engineer.
- a) Temporary: Includes inlet protection systems, sediment barriers, turbidity barriers and soil tracking prevention devices as per the ES&C Manual and the Contract Documents. See Erosion and Sediment Control Details for more information. All sediment controls shall be in place prior to any soil disturbing activity.
- b) Permanent: Includes sod and roadside swales.
- 2.b. Permanent Stormwater Management Controls: Stormwater runoff will be conveyed to inlets and French drains.
- 2.c. Control for Other Potential Pollutants: The Contractor shall practice good housekeeping by instituting a clean, orderly construction site. The following controls shall be implemented to further reduce pollution at the project site:
- 2.c.1. Waste Disposal: In the ECP, the Contractor shall describe the proposed methods to prevent the discharge of solid materials, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Engineer:
- a) The Contractor shall demonstrate the proper disposal of all construction waste generated within the project limits. Waste may include, but not be limited to, vegetation from clearing and grubbing activities, packaging materials, scrap building materials, litter from traveling public, sewage from sanitary facilities, herbicides and pesticides and their containers, and hydrocarbon products. Contractor shall designate a waste collection area onsite and delineate the area on the SWPPP Site Map.
- b) Sanitary/septic facilities shall be provided and maintained in a neat and sanitary condition, for the use of the Contractor's employees as necessary to comply with the requirements and regulations of the State and local boards of health. A licensed Sanitary Waste Management Contractor as required by State Regulations will collect all sanitary waste from portable units.
- c) The Contractor will provide litter control and collection within the Project limits during construction activities. Contractor will provide an adequate number of litter containers with lids at the staging, stockpile and field office areas (as applicable). Waste collection will be scheduled so that containers are emptied prior to overflow. Spilled litter containers will be cleaned up immediately.
- 2.c.2. Off-Site Vehicle Tracking & Generation of Dust: In the ECP, the Contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.
- a) Stabilizing construction entrances as necessary according to the E&SC Manual and the Contract Documents.
- b) The Contractor shall take measures to insure the cleanup of sediments that have been tracked by vehicles or have been transported by wind or stormwater about the site or onto nearby roadways.
- c) Removing excess dirt from roads daily.
- d) Using roadway sweepers during dust generating activities such as excavation and milling operations.
- e) Stabilized construction entrances and construction roads, if appropriate, shall be implemented in order to reduce off-site tracking.
- f) Loaded haul trucks shall be covered with tarpaulin. Excess dirt on the road shall be removed daily.
- 2.c.3. State or Local Regulations: In the ECP, the Contractor shall describe the proposed procedures to comply with applicable State and local regulations for waste disposal, and sanitary sewer or septic systems.
- 2.c.4. Application of Fertilizer and Pesticides
- a) The application and handling of herbicides and pesticides shall be in compliance with the manufacture recommended method and in accordance with FDOT Standard Specifications for Road and Bridge Construction as modified by the Contract Documents.
- b) Herbicides and pesticides shall be stored onsite in their original containers with product label intact.
- 2.c.5. Toxic Substances and Materials
- a) In the ECP, the contractor shall provide a list of toxic substances and materials that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.
- b) Contractor shall provide equipment necessary to contain and clean up spills of hazardous materials, including petroleum products. Spills shall be contained and cleaned up immediately after they occur. Spilled material and the equipment used to clean up the spill shall not come in contact with surface waters or be introduced into stormwater. Disposal of surplus product will be done according to manufacturer recommended method.
- c) Contractor shall provide a project specific Hazardous Materials Spill Control Plan in order to address the handling of hydrocarbon and hazardous materials.
- d) Petroleum products shall be stored in covered areas with secondary containment surrounding container.
- e) Toxic/hazardous materials exposed during construction activities shall be handled per the FDOT Standard Specifications for Road and Bridge Construction as modified by the Contract Documents.

2.d. Approved State and Local Plans and Permits

- 1) Florida Department of Environmental Protection (FDEP) National Pollution Discharge Elimination Systems (NPDES) Permit
- 2) South Florida Water Management District (SFWMD) Environmental Resources Permit (ERP)
- 3) SFWMD Right-of-Way Permit
- 4) U.S. Army Corps Of Engineers (USACE) Section 404 Permit

3. Maintenance: In the ECP, the Contractor shall provide a plan for maintaining all erosion and sediment controls throughout construction. The maintenance plan shall at a minimum, comply with the following:

- 3.a. Sediment Barriers: Twelve (12) months, or as required, replacement interval in accordance with Contract's Specifications.
- 3.b. Inlet Protection Systems at inlets-Check after rainfall events. Clean if clogging occurs.
- 3.c. The maintenance of these devices shall occur until the Engineer has deemed an area permanently stabilized. It will be the responsibility of the Contractor to remove erosion and sediment control devices once they have served their purpose.

4. Inspection

- 4.a. The Contractor shall be required to conduct daily visual inspections of all temporary and permanent erosion control measures along the project corridor. The Contractor shall maintain, repair and/or replace these items as necessary.
- 4.b. The Engineer shall have an Inspector review the project's temporary and permanent erosion control measures for the items listed below at least once every seven (7) calendar days and/or within 24 hours of the end of a storm that is 0.5 inches or greater. A written inspection report (form attached) is required every seven calendar days or within 24 hours of the end of a storm that deposits 0.5 inches of rain or greater.
- 1) Outfalls into the waters of the United States
- 2) Points of discharge to municipal separated storm sewer systems
- 3) Disturbed areas of the site that have not been stabilized
- 4) Areas used for storage of materials that are exposed to precipitation
- 5) Structural controls
- 6) Stormwater management systems
- 7) Locations where vehicles enter or exit this site
- 8) Check that the approved or revised Erosion Control Plan is followed
- 9) Where sites have been stabilized, inspections shall be conducted at least once every month.

4.c. The Contractor shall initiate repairs within 24 hours of inspections that indicate items are not in good working order.

4.d. If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent discharging pollutants, the Contractor shall provide additional measures, as approved by the Engineer.

5. Non-Stormwater Discharges

- 5.a. In the ECP, the Contractor shall identify all anticipated non-stormwater discharges (except flows from fire fighting activities). The Contractor shall describe the proposed measures to prevent pollution from these non-stormwater discharges.
- 5.b. If contaminated soil or groundwater is encountered during construction, the Contractor is to cease operations in that area. The Contractor shall contact the Miami-Dade County Regulatory and Economic Resources (R.E.R.) Compliance Desk, at (305) 372-6955.

6. Contractor/subcontractor: Certification.


6.a. For each measure identified in the SWPPP, the Contractor and/or subcontractor(s) that will implement the measure must sign a copy of the certification statement, provide in Appendix A of the SWPPP, prior to conducting any construction activities at the Sites. (N/A)

R E V I S I O N S											
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel.: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
DARREN G. DYER P.E. NO. 73951

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

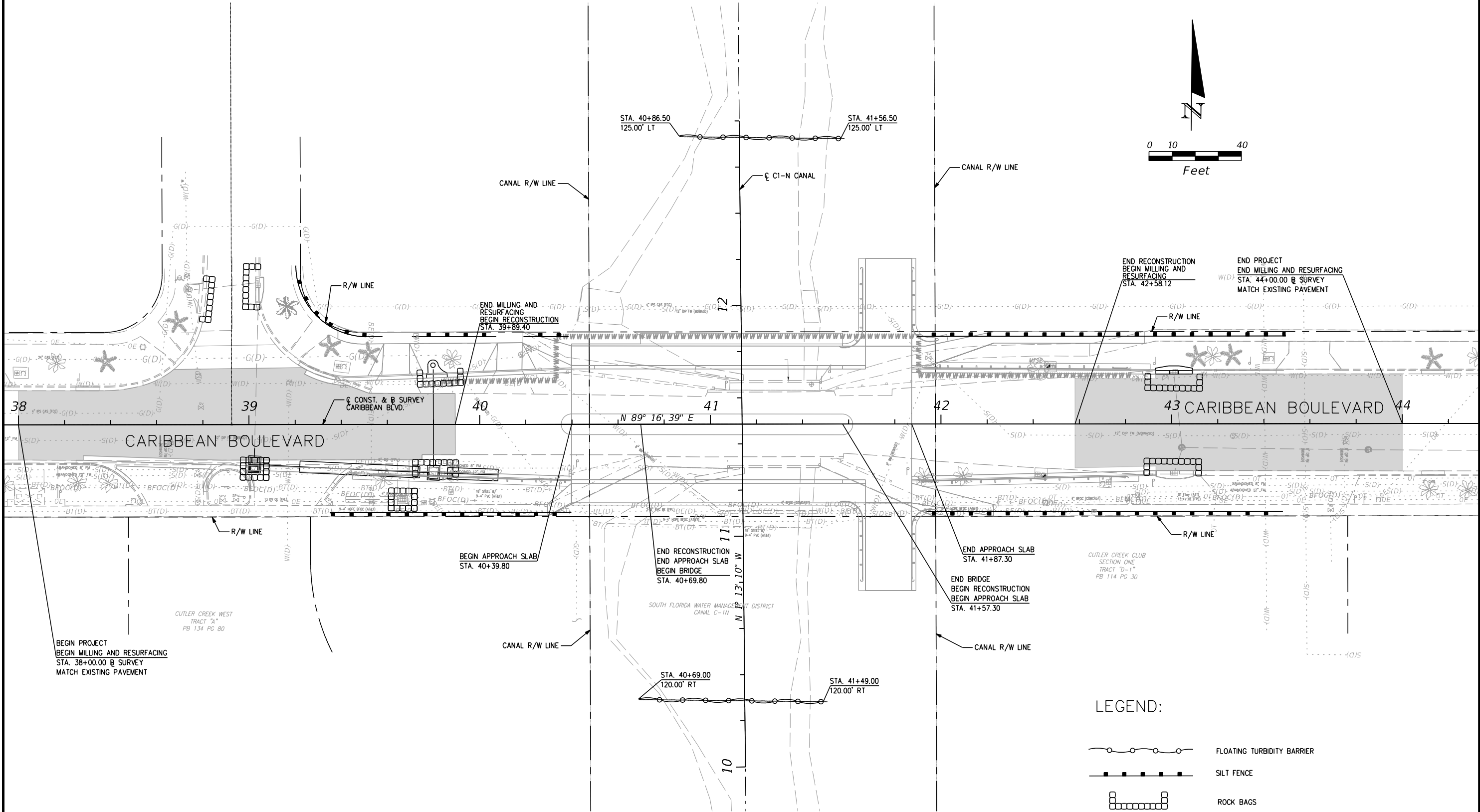
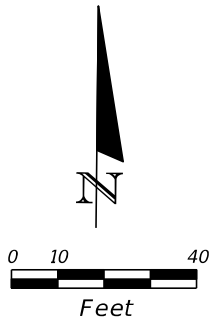
MIAMI-DADE COUNTY



DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33126

STORMWATER POLLUTION PREVENTION PLAN





LEGEND:

FLOATING TURBIDITY BARRIER

SILT FENCE

ROCK BAGS

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33126

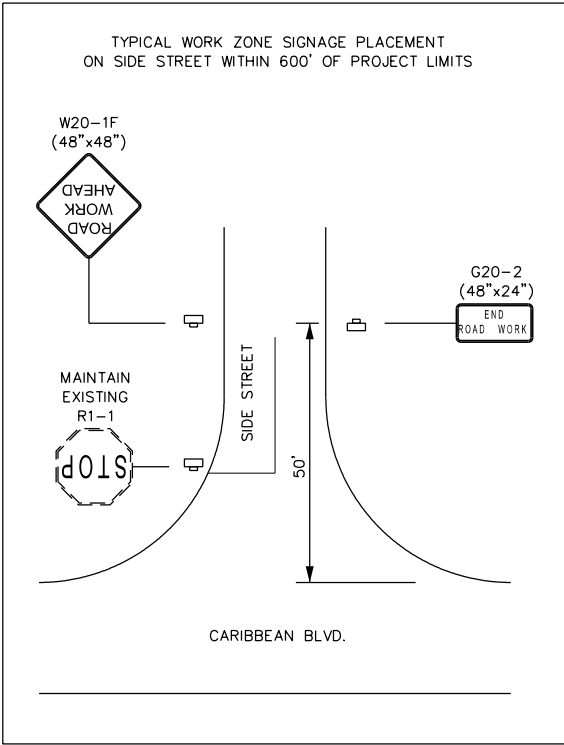
EROSION CONTROL PLAN

1/31/2025 1:31:03 PM \\MIAFIL02\Proj\2019 Projects\EGX\2001\700CADD\702CIVIL\drainage\SWPRD02.dgn JarretJ

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISIONS, INSTALLATION AND MAINTENANCE OF ALL TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE PROJECT PLANS, SPECIFICATIONS OUTLINED IN SECTION C2 AND SECTION R19 OF THE MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT MANUAL, THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION (INCLUDING 102 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA. IN ADDITION, THE CONTRACTOR IS RESPONSIBLE FOR THE RESETING OR REPLACING OF ALL TRAFFIC CONTROL DEVICES, INCLUDING PAVEMENT MARKINGS REMOVED OR DAMAGED DURING THE CONSTRUCTION PERIOD. EXISTING "STOP," "YIELD," "DO NOT ENTER," AND "ONE WAY" SIGNS SHALL BE RESTORED/RE-ERECTED IMMEDIATELY IF DAMAGED OR KNOCKED DOWN. EXISTING SCHOOL SIGNS SHALL BE REINSTALLED WITHIN 24 HOURS IF DAMAGED OR KNOCKED DOWN. ALL DAMAGED TRAFFIC SIGNS WILL BE REPLACED PRIOR TO COMPLETION OF WORK.
2. THE CONTRACTOR MAY DEVELOP A MAINTENANCE OF TRAFFIC PLAN OF HIS OWN, MEETING THE REQUIREMENTS SPECIFIED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES LATEST EDITION AND THE FDOT STANDARD PLANS 102 SERIES. THE CONTRACTOR'S MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO DTPW TRAFFIC ENGINEERING DIVISION AND TO THE ENGINEER FOR REVIEW/APPROVAL AND PERMIT PRIOR TO THE BEGINNING OF WORK. THE PLANS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA WITH FDOT ADVANCED MAINTENANCE OF TRAFFIC CERTIFICATION. CONTRACTOR TO PROVIDE 15 DAYS OF REVIEW PERIOD FOR EACH SUBMITTAL.
3. TEMPORARY PAVEMENT SHALL CONSIST OF A MINIMUM OF 6-INCH LIMEROCK BASE, PRIME COAT AND 1-1/2 INCHES TYPE S ASPHALTIC CONCRETE. THE BASE LAYER SHALL BE PLACED OVER A FIRM, UNYIELDING, WELL-COMPACTED SUBGRADE. COST OF CONSTRUCTION AND REMOVAL OF TEMPORARY PAVEMENT TO BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
4. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHoles THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THOSE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
5. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY COORDINATING WITH MIAMI-DADE COUNTY PUBLIC WORKS DEPARTMENT AND MIAMI-DADE COUNTY TRAFFIC OPERATIONS.
6. THE CONTRACTOR SHALL NOTIFY LAW ENFORCEMENT, IN ACCORDANCE WITH SECTION 336.07 OF THE FLORIDA STATUTES, FIRE PROTECTION SERVICES, AND MIAMI-DADE TRANSIT AUTHORITY TWENTY-FOUR (24) HOURS IN ADVANCE OF ANY DETOUR.
7. AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSURE CAUSES EXTENDED CONGESTION OR DELAY, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME THAT THE TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
8. THE TRAFFIC AND TRAVEL VAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
9. LANE CLOSURE SHALL OCCUR ONLY DURING NON-PEAK HOURS ON NONEVENT DAYS/NIGHTS. THERE SHALL BE NO INTERRUPTION OF TRAFFIC PERMITTED FROM MONDAY-FRIDAY 7 TO 9 AM AND 4 TO 6 PM OR ON WEEKENDS AND HOLIDAYS. THERE SHALL BE NO INTERRUPTION OF PEDESTRIAN, BICYCLE AND VEHICULAR TRAFFIC ON ROADWAYS SURROUNDING SCHOOLS DURING SCHOOL ARRIVAL/DISMISSAL HOURS. ANY VARIATIONS FROM THESE REQUIREMENTS WILL REQUIRE EXPRESS WRITTEN PERMISSION FROM THE PUBLIC WORKS DIRECTOR. CONTRACTOR SHALL COORDINATE WITH MIAMI-DADE COUNTY PUBLIC, CHARTER, AND/OR PRIVATE SCHOOL(S) AT LEAST A WEEK IN ADVANCE PRIOR TO CONSTRUCTION.
10. AT ALL OTHER TIMES, CONTRACTOR MUST:
  - REFER TO DETAILED TRAFFIC CONTROL PLANS (SHEETS 20 THRU 23).
  - IN ADDITION TO ADVANCE WARNING SIGNAGE, PROVIDE CHANGEABLE (VARIABLE) MESSAGE SIGNS (CMS) SHOWING DATE AND TIME OF CLOSURE TO INFORM AFFECTED RESIDENTS, PROPERTY OWNERS AND BUSINESSES BY MEANS OF FLYERS AT LEAST TWO WEEKS IN ADVANCE PRIOR TO CONSTRUCTION.
  - ENSURE THAT MAINTENANCE OF TRAFFIC IS NOT IN CONFLICT WITH THE "ONE WAY" OR "DO NOT ENTER" SIGNAGE AND A MINIMUM OF 20-FOOT PAVEMENT IS PROVIDED FOR TWO-WAY TRAFFIC.
  - INSTALL PROPER TURN RESTRICTIONS WHERE APPLICABLE.
  - ENSURE THAT PROPER TRAFFIC CONTROL DEVICES EXIST FOR SAFETY PURPOSE.
  - INSTALL PROPER ADVANCE WARNING SIGNAGE FOR TRAFFIC HEADING TOWARD THE PROJECT SITE AND/OR CLOSURE.
  - ACQUIRE FDOT PERMIT/APPROVAL IF WORKING ON STATE RIGHT OF WAY.
  - COORDINATE WITH TOWN OF CUTLER BAY FOR MAINTENANCE OF TRAFFIC ON CITY ROADS.
  - IMPLEMENT SIDEWALK CLOSURE AS PER FDOT STANDARD PLANS INDEX 102-660.
  - COMPLY WITH TOWN OF CUTLER BAY NOISE ORDINANCES.
11. REGULATORY SPEED ESTABLISHED WITHIN THE WORK ZONE TRAVEL VAYS SHALL BE 20 M.P.H. REDUCED SPEED AND REGULATORY SPEED SIGNS SHALL BE INSTALLED ON SEPARATE POSTS IN ACCORDANCE WITH FDOT STANDARD PLANS.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS WITHIN THE AREA OF CONSTRUCTION SHALL BE GIVEN ACCESS TO THEIR PROPERTY DURING ALL PHASES OF CONSTRUCTION. LOCAL RESIDENTS INCLUDE ALL COMMERCIAL ESTABLISHMENTS AND BUSINESSES.
13. SIGNS ARE TO BE LOCATED BEFORE EACH BUSINESS OR SHOPPING PLAZA ENTRANCE WHERE CONSTRUCTION NEGATIVELY IMPACTS THE ACCESS TO THE BUSINESS OR SHOPPING PLAZA OR AS DIRECTED BY THE ENGINEER. TWO SIGNS WILL TYPICALLY BE REQUIRED AT EACH ENTRANCE. SIGNS ARE TO BE DISPLAYED AS DESCRIBED IN INDEX 102-600 OF THE FDOT STANDARD PLANS.
14. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
15. CONTRACTOR SHALL REMOVE, RELOCATE, OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
16. EACH EXISTING STREET NAME AND TRAFFIC SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED IN THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.
17. THE CONTRACTOR SHALL NOT PROPOSE ANY ALTERNATIVE TRAFFIC CONTROL PLAN THAT REDUCES THE NUMBER OF TRAVEL LANES SHOWN ON THE CONTRACT TRAFFIC CONTROL PLANS.
18. ARROWS ON THE TRAFFIC CONTROL PLANS DENOTE THE DIRECTION OF TRAFFIC ONLY AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAY UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE ENGINEER. COST FOR REMOVING THE WATER SHALL BE INCLUDED IN PAY ITEM 102-1A, MAINTENANCE OF TRAFFIC.

- |     |   |  |                |            |      |
|-----|---|--|----------------|------------|------|
| ION | <b>Jacobs Engineering Group, Inc.</b><br>3150 S.W. 38th Avenue, Suite 700<br>Miami, FL 33146<br>Tel: (305) 392-5196 |  | NAME           | DATE       | NAME |
|     | CERTIFICATE OF AUTHORIZATION NO. 2822<br>ENGINEER OF RECORD:<br>JAWARA JARRETT P.E. NO. 87378                       |  | DESIGNED BY    | DRAWN BY   |      |
|     |   |  | CHECKED BY     | CHECKED BY |      |
|     |   |  | SUPERVISED BY: |            |      |
|     |   |  |                |            |      |

1. SEQUENCE OF CANAL EXCAVATION SHALL MATCH SEQUENCE OF BRIDGE CONSTRUCTION AS SHOWN ON B1-3 AND SHEET 11.
2. CONTRACTOR SHALL PERFORM EXCAVATION FROM CANAL BANKS.
3. NO STOCKPILING OF DREDGE MATERIAL WITHIN THE LIMITS OF THE PROJECT IS PERMITTED. DREDGE MATERIAL SHALL BE HAULED OFF PROJECT PREMISES DAILY.
4. THE SCOPE OF THIS PROJECT IS LIMITED TO EXCAVATION OF THE CANAL AREA ONLY, AS SHOWN IN THE PERMIT DOCUMENTS AND IN THE CONTRACT PLANS.
5. CONTRACTOR SHALL PERFORM ALL BRIDGE AND CANAL WORK IN ACCORDANCE WITH THE PERMIT DOCUMENTS AND CONTRACT PLANS. ANY DEVIATIONS SHALL BE REVIEWED BY THE PERMITTING AGENCY AND NEW PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AS REQUIRED.



## TRAFFIC CONTROL PLANS

[illegible]

	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY

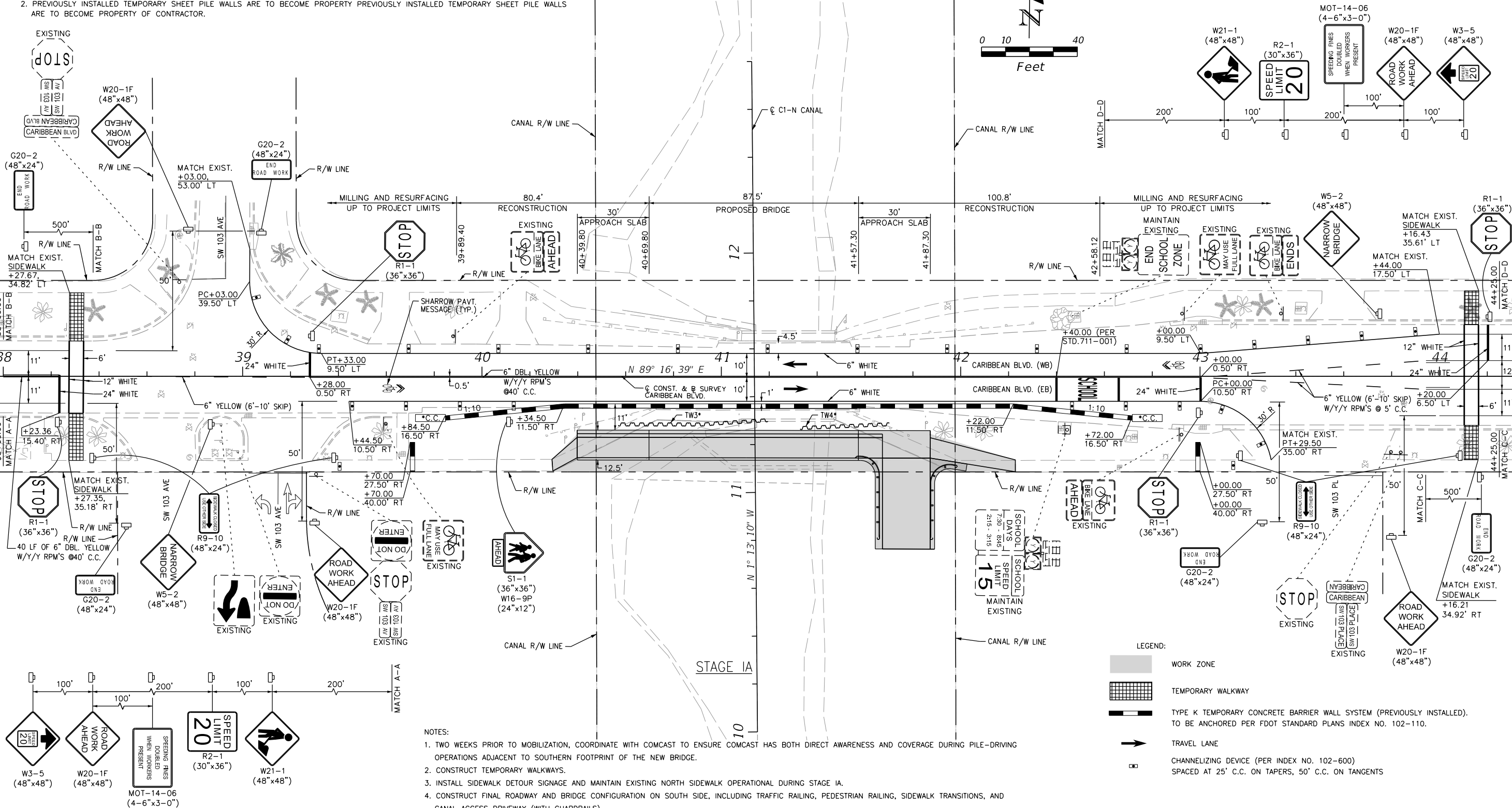
DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33128

## TRAFFIC CONTROL PLANS

1/31/2025 3:19:52 PM \\MIATF102\Proj\2019 Projects\EGX\2001\700CADD\702CIVIL\trafops\TCDSP001A.dgn JarretJ

NOTE:

1. TEMPORARY BARRIER, TEMPORARY SHEET PILE WALLS TW3 (37 LF) & TW4 (32 LF), AND TEMPORARY CRASH CUSHIONS REQUIRED FOR STAGE 1A WERE INSTALLED BY THE PREVIOUS CONTRACTOR, AMERICAN EMPIRE BUILDERS, INC. (AEB). THE CONTRACTOR HAS THE OPTION TO USE WHAT HAS BEEN INSTALLED PREVIOUSLY OR REMOVE AND REPLACE. IF THE CONTRACTOR CHOOSES TO USE THE IN-PLACE PORTION OF THE BRIDGE OR THE TEMPORARY SHEET PILE WALLS (SUBSTRUCTURE AND TEMPORARY WALLS PREVIOUSLY CONSTRUCTED BY AEB IN STAGE 1A), THEY ARE TO REVIEW, PROVIDE WRITTEN ACCEPTANCE PREPARED BY A FL PE IN A FORM OF CERTIFICATION, AND TAKE RESPONSIBILITY FOR THE WORK THAT WAS PREVIOUSLY DONE. THE REMOVAL OF ANY PREVIOUS WORK SHALL BE PAID FOR UNDER PAY ITEM 110-3. ALL QUANTITIES ON THIS PLAN SET INCLUDE THOSE PREVIOUSLY CONSTRUCTED. NO DEDUCTION IN QUANTITIES HAS BEEN MADE DUE TO PREVIOUS CONSTRUCTION EFFORTS. PREVIOUSLY INSTALLED TEMPORARY BARRIER (22 UNITS) SHALL BE ANCHORED PER FDOT STANDARD PLANS INDEX 102-110.
2. PREVIOUSLY INSTALLED TEMPORARY SHEET PILE WALLS ARE TO BECOME PROPERTY PREVIOUSLY INSTALLED TEMPORARY SHEET PILE WALLS ARE TO BECOME PROPERTY OF CONTRACTOR.



LEGEND:

- WORK ZONE
- TEMPORARY WALKWAY
- TYPE K TEMPORARY CONCRETE BARRIER WALL SYSTEM (PREVIOUSLY INSTALLED). TO BE ANCHORED PER FDOT STANDARD PLANS INDEX NO. 102-110.
- TRAVEL LANE
- CHANNELIZING DEVICE (PER INDEX NO. 102-600) SPACED AT 25' C.C. ON TAPERS, 50' C.C. ON TANGENTS

NOTES:

1. TWO WEEKS PRIOR TO MOBILIZATION, COORDINATE WITH COMCAST TO ENSURE COMCAST HAS BOTH DIRECT AWARENESS AND COVERAGE DURING PILE-DRIVING OPERATIONS ADJACENT TO SOUTHERN FOOTPRINT OF THE NEW BRIDGE.
2. CONSTRUCT TEMPORARY WALKWAYS.
3. INSTALL SIDEWALK DETOUR SIGNAGE AND MAINTAIN EXISTING NORTH SIDEWALK OPERATIONAL DURING STAGE 1A.
4. CONSTRUCT FINAL ROADWAY AND BRIDGE CONFIGURATION ON SOUTH SIDE, INCLUDING TRAFFIC RAILING, PEDESTRIAN RAILING, SIDEWALK TRANSITIONS, AND CANAL ACCESS DRIVEWAY (WITH GUARDRAILS).

REVISIONS

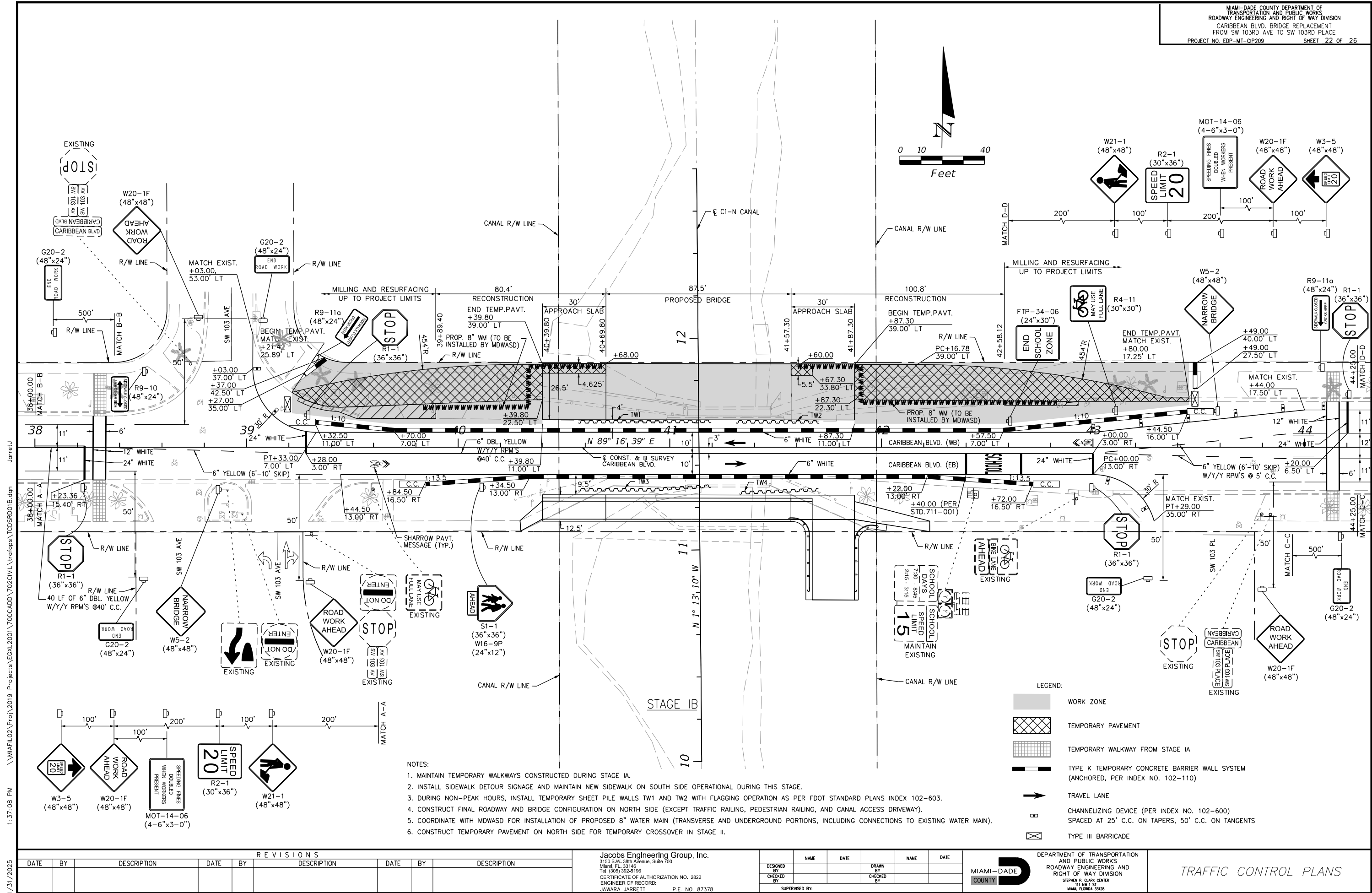
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

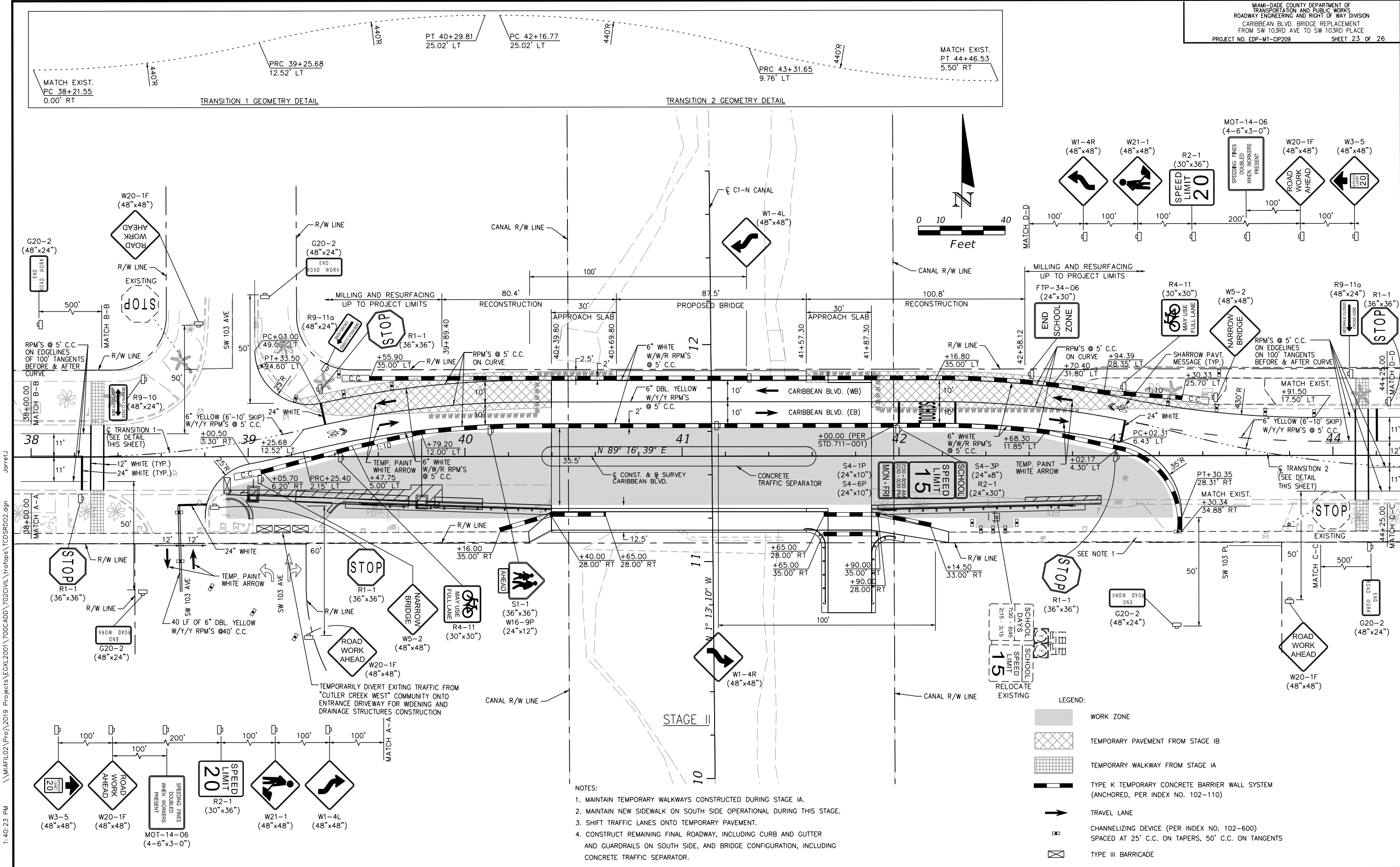
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY					

MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
10 NW 1ST ST  
MIAMI, FLORIDA 33126

TRAFFIC CONTROL PLANS





1/31/2025 1:40:23 PM \\MIAFIL02\Proj\2019 Projects\EGX\2001700CADD\702CIVIL\traps\TCDSD02.dgn JarrettJ

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

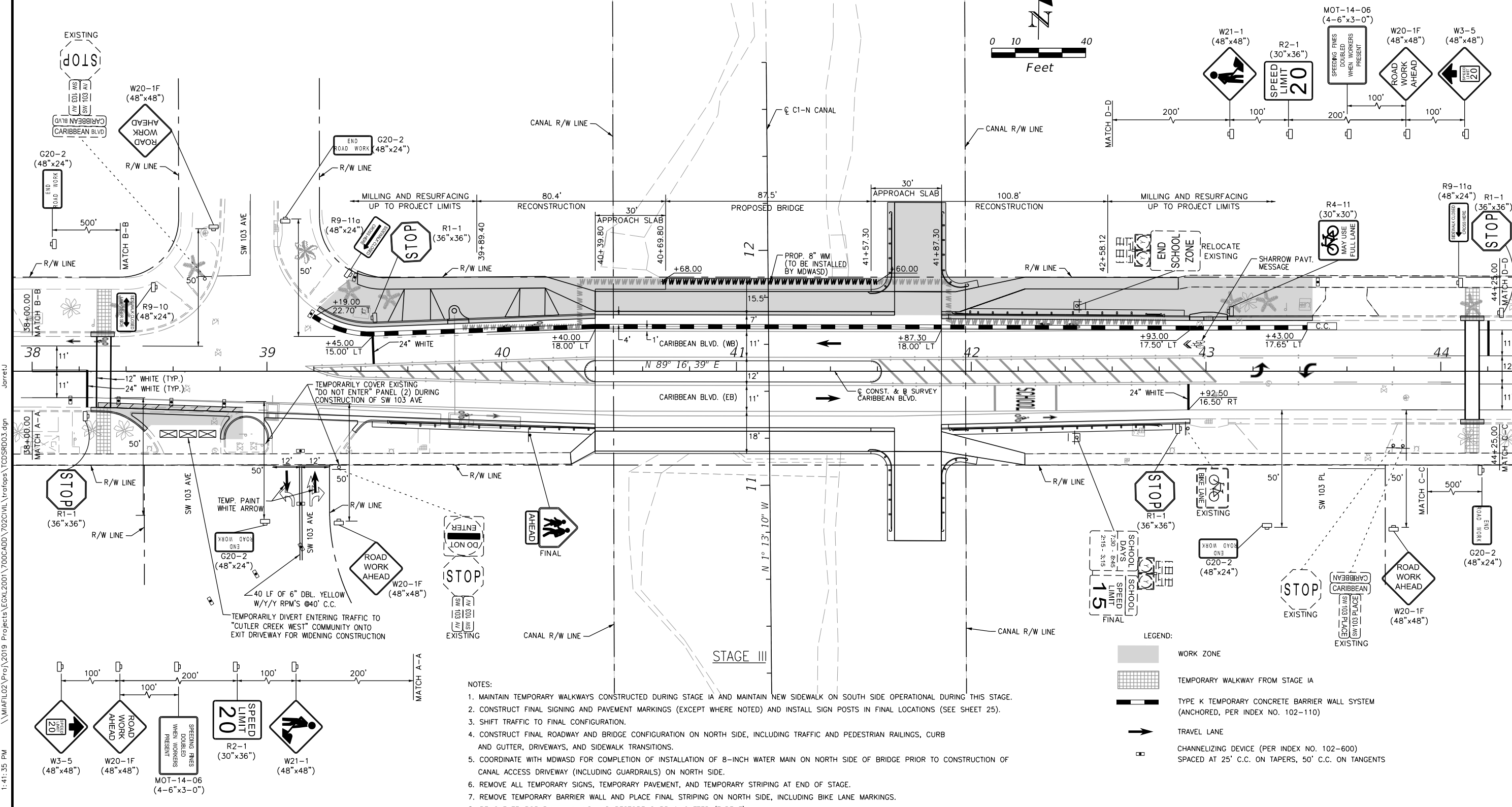
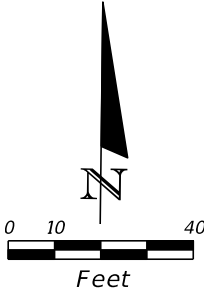
Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-5196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST.  
MIAMI, FLORIDA 33128

TRAFFIC CONTROL PLANS



- NOTES:
1. MAINTAIN TEMPORARY WALKWAYS CONSTRUCTED DURING STAGE IA AND MAINTAIN NEW SIDEWALK ON SOUTH SIDE OPERATIONAL DURING THIS STAGE.
  2. CONSTRUCT FINAL SIGNING AND PAVEMENT MARKINGS (EXCEPT WHERE NOTED) AND INSTALL SIGN POSTS IN FINAL LOCATIONS (SEE SHEET 25).
  3. SHIFT TRAFFIC TO FINAL CONFIGURATION.
  4. CONSTRUCT FINAL ROADWAY AND BRIDGE CONFIGURATION ON NORTH SIDE, INCLUDING TRAFFIC AND PEDESTRIAN RAILINGS, CURB AND GUTTER, DRIVEWAYS, AND SIDEWALK TRANSITIONS.
  5. COORDINATE WITH MDWASD FOR COMPLETION OF INSTALLATION OF 8-INCH WATER MAIN ON NORTH SIDE OF BRIDGE PRIOR TO CONSTRUCTION OF CANAL ACCESS DRIVEWAY (INCLUDING GUARDRAILS) ON NORTH SIDE.
  6. REMOVE ALL TEMPORARY SIGNS, TEMPORARY PAVEMENT, AND TEMPORARY STRIPING AT END OF STAGE.
  7. REMOVE TEMPORARY BARRIER WALL AND PLACE FINAL STRIPING ON NORTH SIDE, INCLUDING BIKE LANE MARKINGS.
  8. REMOVE TEMPORARY WALKWAYS AND RESTORE CURB & GUTTER (TYPE F).

- LEGEND:
- WORK ZONE
  - TEMPORARY WALKWAY FROM STAGE IA
  - TYPE K TEMPORARY CONCRETE BARRIER WALL SYSTEM (ANCHORED, PER INDEX NO. 102-110)
  - TRAVEL LANE
  - CHANNELIZING DEVICE (PER INDEX NO. 102-600) SPACED AT 25' C.C. ON TAPERS, 50' C.C. ON TANGENTS

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY  
DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
11 NW 1 ST  
MIAMI, FLORIDA 33126

TRAFFIC CONTROL PLANS

3/6/2025 8:15:27 PM \\MIATL02\Pro\2019 Projects\EXL2001\700CADD\702CIVL\signing\TABOSPO1.dgn JarretJ

SUMMARY OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	TOTAL QUANTITY
700-1-11B*	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	EA	7
700-1-50*	SINGLE POST SIGN, RELOCATE	EA	5
700-1-60*	SINGLE POST SIGN, REMOVE	EA	4
700-2-50*	MULTI-POST SIGN, GROUND MOUNT, RELOCATE	EA	2
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA	4
705-10-1A*	OBJECT MARKER (TYPE 1)	EA	2
705-10-3	OBJECT MARKER (TYPE 3)	EA	4
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	140
710-11-290	PAINTED PAVEMENT MARKINGS (STANDARD) (YELLOW) (ISLAND NOSE)	SF	29
710-90	PAINTED PAVEMENT MARKINGS - FINAL SURFACE	LS	1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE, 24"	LF	22
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE	EA	1
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROW	EA	2
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE, 6"	LF	101
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	311
*	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	LF	1,812
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	LF	1,495
*	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SKIP, 6"	LF	264
711-11-125	THERMOPLASTIC (WHITE) (SOLID) (24")	LF	22
711-11-141	THERMOPLASTIC (WHITE) (SKIP) (6")	LF	101
711-11-170	THERMOPLASTIC (WHITE) (ARROWS)	EA	2
711-11-224	THERMOPLASTIC (YELLOW) (SOLID) (18")	LF	311
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	6
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROWS	EA	5
711-16-101A*	THERMOPLASTIC, STANDARD, OTHER SURFACES, WHITE, SOLID, 6"	LF	1220
711-16-201A*	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LF	1141
711-16-231B*	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SKIP, 6"	LF	264
713-103-101A*	PERMANENT TAPE, WHITE, SOLID, 6" CONCRETE BRIDGES	LF	592
713-103-201A*	PERMANENT TAPE, YELLOW, SOLID, 6" CONCRETE BRIDGES	LF	354

\* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION; SEE SPECIFICATION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

+ DENOTES MDC PAY ITEM NO.

PAY ITEM NOTES

700-1-50 INCLUDES RELOCATION OF BEACONS AND SOLAR PANEL AT TWO (2) SCHOOL ZONE SIGN ASSEMBLIES (STA. 42+45). ALSO INCLUDES THE COST OF NEW SIGN FOUNDATION AND NEW PULLBOX FOR GROUNDING.

705-10-3 INCLUDES REMOVAL OF EXISTING BRIDGE OBJECT MARKERS.

NOTES

1. ALL SIGNING AND PAVEMENT MARKINGS SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS.
2. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE SPECIFIED. BEFORE STARTING THE PROJECT, THE CONTRACTOR WILL REVIEW EXISTING SIGNS SHOWN ON THE PLANS TO BE RELOCATED OR TO REMAIN. THE CONTRACTOR WILL NOTIFY IN WRITING TO THE PROJECT ENGINEER OF ANY MISSING SIGNS BEFORE CONSTRUCTION STARTS. SIGNS DAMAGED BY THE CONTRACTOR'S OPERATIONS WILL BE REPLACED AT NO COST TO MIAMI-DADE COUNTY. IF EXISTING SIGNS TO BE RELOCATED HAVE A DAMAGED POLE OR A POLE NOT MEETING HEIGHT SPECIFICATION REQUIREMENTS, THE COST OF A NEW POLE WILL BE INCLUDED IN THE RELOCATION BID ITEM.
3. ALL PAVEMENT MARKINGS, MESSAGES, AND ARROWS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED.
4. RETRO-REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.
5. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOGS OR OFFSETS.
6. THE CONTRACTOR SHALL REMOVE EXISTING MARKINGS BY FDOT APPROVED METHOD WITHOUT DAMAGE TO THE FRICTION COURSE.
7. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER. EXTREME LOCATION CHANGES MUST BE APPROVED BY MIAMI-DADE SIGNALS AND SIGNS DIVISION.
8. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING POST-MOUNTED STREET NAME AND STOP SIGNS AT THEIR EXISTING LOCATIONS ON SIDE STREETS (WITHIN PROJECT LIMITS) AND UNDAMAGED BEFORE, DURING, AND UNTIL THE END OF CONSTRUCTION.
9. EXTRUDED ALUMINUM SIGN SUPPORT CLAMPS ARE NOT ACCEPTABLE. ALL RELOCATED SIGNS MUST COMPLY WITH FDOT STANDARD PLANS AND SPECIFICATIONS AS IF THEY WERE NEW SIGNS. IF EXISTING CLAMPS, BRACKETS, POLES, ETC. NEED TO BE REPLACED THE COST SHALL BE INCLUDED IN THE RELOCATION PAY ITEM.
10. ANY SIGNING MATERIALS, INCLUDING SUPPORTS, TO BE REMOVED AS NOTED ON PLAN SHEETS, SHALL BE DELIVERED BY THE CONTRACTOR IN EXISTING CONDITION, IN CARE OF THE STOREKEEPER AT THE MIAMI-DADE COUNTY MAINTENANCE YARD, 7100 NW 36 STREET, MIAMI, FL 33166.
11. SCHOOL CROSSING SIGNAGE AND SCHOOL SPEED ZONE SIGNAGE TO CONFORM WITH MUTCD/FDOT STANDARDS (FLUORESCENT YELLOW-GREEN BACKGROUNDS).
12. REFLECTIVE PAVEMENT MARKERS AS PER FDOT STANDARD PLANS INDEX 706-001.

R E V I S I O N S							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel. (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

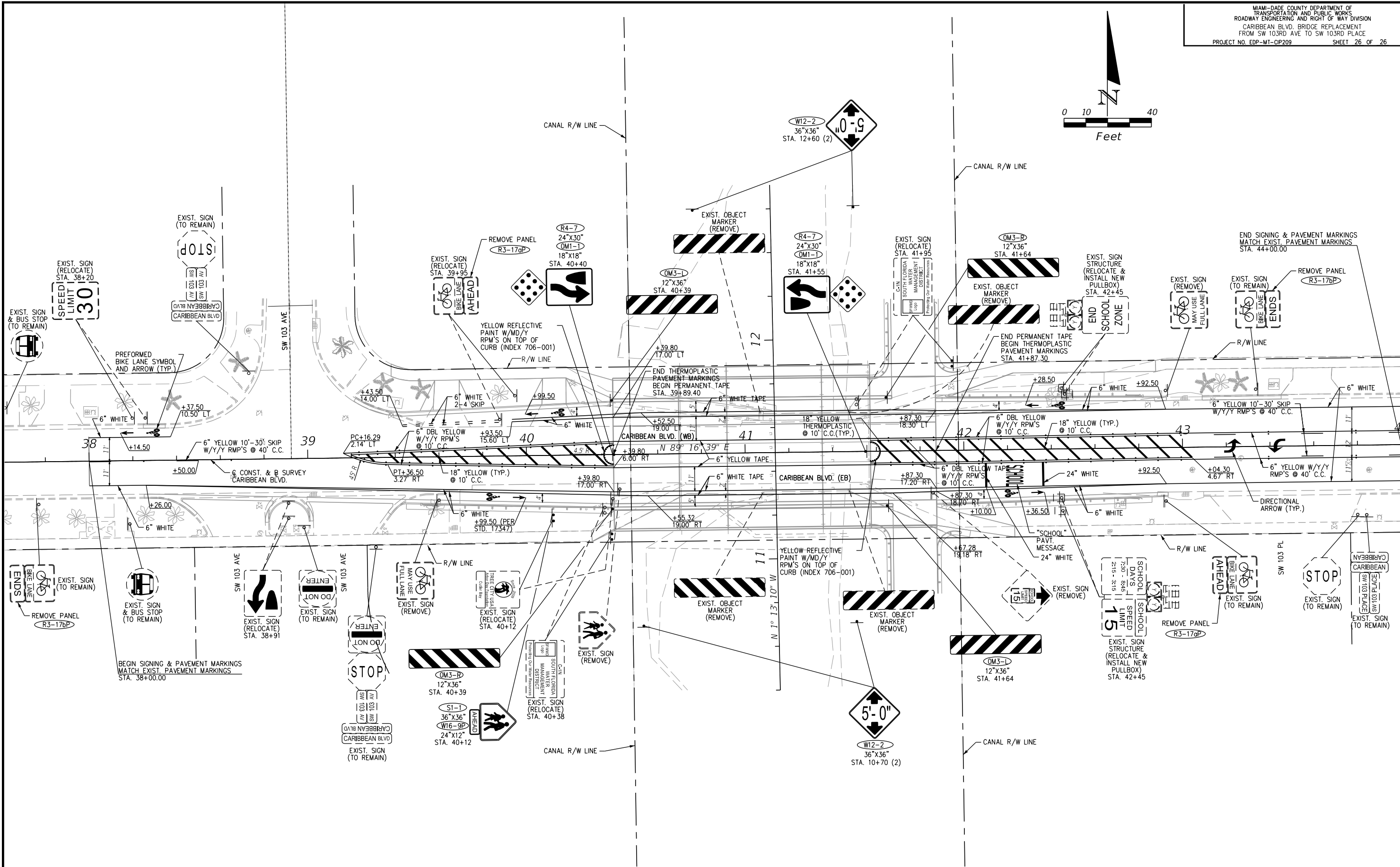
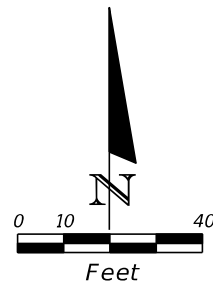
	NAME	DATE		NAME	DATE
DESIGNED BY			DRAWN BY		
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE  
COUNTY

DEPARTMENT OF TRANSPORTATION  
AND PUBLIC WORKS  
ROADWAY ENGINEERING AND  
RIGHT OF WAY DIVISION  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FLORIDA 33126

SIGNING AND PAVEMENT MARKINGS  
SUMMARY OF QUANTITIES





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jacobs Engineering Group, Inc.  
3150 S.W. 38th Avenue, Suite 700  
Miami, FL 33146  
Tel: (305) 392-6196  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
JAWARA JARRETT P.E. NO. 87378

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHECKED BY			CHECKED BY		
SUPERVISED BY:					

MIAMI-DADE COUNTY

DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS  
ROADWAY ENGINEERING AND RIGHT OF WAY DIVISION  
STEPHEN P. CLARK, CHIEF  
111 NW 1st St  
MIAMI, FLORIDA 33128

SIGNING AND PAVEMENT  
MARKINGS PLANS



C:\Users\RodrigCE1\OneDrive - Jacobs\ONE DRIVE PROJECTS\Coribbean Blvd\B1-01 GenNotes01.dwg Jan 30, 2025 - 5:11pm RODRIGCE1

GENERAL NOTES

- A. GENERAL SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, JULY 2019 EDITION, AS MODIFIED BY MIAMI-DADE COUNTY PUBLIC WORKS AND WASTE MANAGEMENT DEPARTMENT SPECIAL PROVISIONS.
- B. DESIGN SPECIFICATIONS:  
AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO), LRFD BRIDGE DESIGN SPECIFICATIONS EIGHTH EDITION.  
FDOT STRUCTURES DESIGN GUIDELINES (JANUARY 2019).
- C. DESIGN METHOD:  
LOAD AND RESISTANCE FACTOR DESIGN METHOD (LRFD).
- D. DESIGN LOADING:  
1. OPERATIONAL IMPORTANCE FACTOR:  
1.0 IN ACCORDANCE WITH THE FDOT STRUCTURES DESIGN GUIDELINES
2. DEAD LOADS:  
UNIT WEIGHT OF REINFORCED CONCRETE (INCLUDING REINFORCEMENT):.....150 PCF  
TRAFFIC RAILING BARRIER (36" SINGLE SLOPE):.....430 PLF EACH  
PEDESTRIAN/BICYCLE RAILING (27" PARAPET ONLY):.....225 PLF  
ALUMINUM PEDESTRIAN/BICYCLE BULLET RAILING:.....10 PLF  
FUTURE WEARING SURFACE:.....15 PSF
3. LIVE LOADS: HL-93 LOADING  
PEDESTRIAN LIVE LOAD:.....75 PSF
4. WIND LOADS:  
WIND LOADS ARE IN ACCORDANCE WITH SECTION 3.8 AASHTO, AND SECTION 2.4 OF THE STRUCTURES DESIGN GUIDELINES.
5. EARTHQUAKE LOADS:  
EARTHQUAKE PROVISIONS ARE IN ACCORDANCE WITH SECTION 2.3 OF THE STRUCTURES DESIGN GUIDELINES.
6. TEMPERATURE EFFECTS:

SUPERSTRUCTURE MATERIAL	TEMPERATURE (°F)				COEFFICIENT OF THERMAL EXPANSION
	MEAN	HIGH	LOW	RANGE	
CONCRETE DECK ON CONCRETE GIRDERS	70	+105	+35	70	0.000006

- F. DIMENSIONS:  
ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- G. ENVIRONMENT:  
SUPERSTRUCTURE – SLIGHTLY AGGRESSIVE  
SUBSTRUCTURE – SLIGHTLY AGGRESSIVE
- H. MATERIALS:

1. CONCRETE STRENGTH:

CLASS	LOCATION IN STRUCTURE	MINIMUM 28 DAY COMPRESSIVE STRENGTH (PSI)
II	BARRIERS	3400
II (BRIDGE DECK)	CAST IN PLACE SUPERSTRUCTURE AND APPROACH SLAB	4500
V (SPECIAL)	PRESTRESSED PRECAST CONCRETE PILES	6000
IV	CAST-IN-PLACE SUBSTRUCTURE	5500

2. CONCRETE SHALL BE IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS SECTION 346.
3. PROVIDE 3/4" CHAMFER ON ALL EXPOSED SURFACES; UNO.
4. REINFORCING STEEL:  
ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL DIMENSIONS PERTAINING TO LOCATION OF REINFORCEMENT ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO THE FACE OF CONCRETE OR OTHER SURFACES.

- I. CONCRETE COVER:  
UNLESS NOTED OTHERWISE, CONCRETE COVER SHALL CONFORM TO THE FOLLOWING:
- |  |    |
|--|----|
| TOP DECK SURFACES                          | 2" |
| SUPERSTRUCTURE (CAST-IN-PLACE)             | 2" |
| SUBSTRUCTURE (CAST-IN-PLACE):              |    |
| SURFACES CAST AGAINST EARTH (BOTTOM COVER) | 4" |
| ALL OTHER SURFACES                         | 3" |
| PRESTRESSED PILES                          | 3" |
- NOTE: CONCRETE COVERS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS FOR ALLOWABLE TOLERANCES.
- J. SCREEDING DECK SLABS:  
SCREED THE RIDING SURFACE OF THE BRIDGE DECK AND APPROACH SLABS TO ACHIEVE THE FINISH GRADE ELEVATIONS SHOWN IN THE PLANS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO DECK SELFWEIGHT, DECK CASTING SEQUENCE, DECK FORMING SYSTEMS, CONSTRUCTION LOADS, AND TEMPORARY SHORING, ETC. AS REQUIRED.
- K. CONSTRUCTION JOINTS IN CONCRETE:  
CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE WRITTEN APPROVAL OF THE ENGINEER.
- L. ELEVATIONS:  
ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM (NGVD) OF 1929.
- M. UTILITIES:  
LOCATION OF UTILITIES SHOWN IN THE BRIDGE PLANS ARE AT APPROXIMATE LOCATIONS. SEE ROADWAY PLANS FOR VERIFICATION OF THE LOCATION OF THE EXISTING UTILITIES SHOWN ON THE BRIDGE PLANS AND FOR ADDITIONAL DETAILS OF PROPOSED UTILITIES TO BE SUPPORTED ON STRUCTURES. THE CONTRACTOR SHALL NOTIFY ALL INVOLVED UTILITY COMPANIES AND VERIFY EXACT LOCATIONS OF ALL UTILITIES PRIOR TO EXCAVATION OR CONSTRUCTION (INCLUDING PRECAST PILES) AND SHALL BE RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS MAY BE NECESSARY TO AVOID DAMAGE. ANY REQUIRED RELOCATION OF EXISTING UTILITIES SHALL BE DONE BY OTHERS. CONTRACTOR SHALL ENSURE THAT ACTIVE UTILITIES WITHIN THE PROJECT LIMITS ARE PROPERLY MAINTAINED DURING CONSTRUCTION. FOR LIST OF UTILITY COMPANIES, SEE ROADWAY PLANS.

- N. SURFACE FINISH:  
FOR SURFACES THAT SHALL RECEIVE A CLASS 5 FINISH COATING. SEE SURFACE FINISH DETAILS.
- THE FOLLOWING SURFACES SHALL BE TREATED:  
– THE VERTICAL EDGE OF DECK SLAB.  
– THE INSIDE AND OUTSIDE FACES AND TOP OF TRAFFIC RAILING BARRIERS AND PARAPETS ON BRIDGE AND APPROACH SLABS.
- O. REMOVAL OF EXISTING STRUCTURES:  
CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EXISTING STRUCTURES AS SHOWN ON CONTRACT DRAWINGS. ALL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. FOR ADDITIONAL NOTES AND DETAILS, SEE TRAFFIC CONTROL PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR STABILITY OF EXISTING STRUCTURES DURING DEMOLITION.

PAY ITEM NOTES:

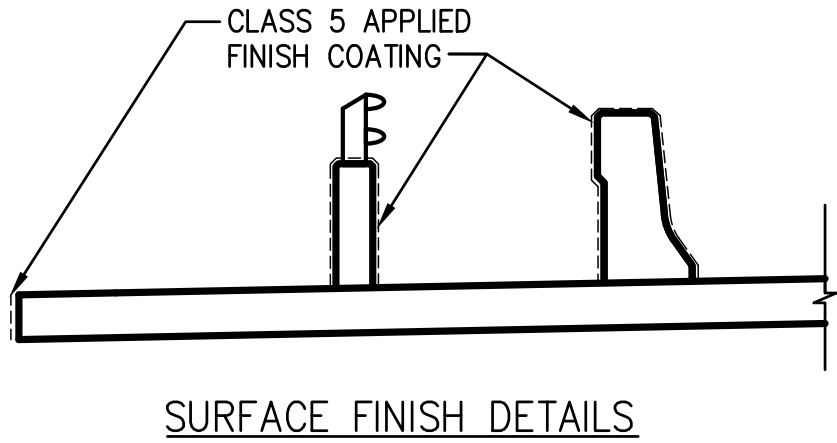
- A. FOR SUMMARY OF BRIDGE PAY ITEMS SEE ROADWAY PLANS.
- B. PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT PRICES FOR THE BID ITEMS.
- C. THE COST OF ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF ROOFING PAPER AND PREMOLDED EXPANSION MATERIAL SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR SUPERSTRUCTURE CONCRETE PAY ITEM.
- D. FOR MAINTENANCE OF TRAFFIC BID ITEM NOTES, SEE ROADWAY PLANS.
- E. FOR THE APPROACH SLAB, SEE STANDARD INDEX 400-090.
- F. REMOVAL OF EXISTING STRUCTURE SHALL INCLUDE THE COMPLETE REMOVAL AND LEGAL DISPOSITION OF ALL PARTS, INCLUDING PILES.
- G. COST TO TACK WELD NUTS ON BULLET RAILINGS SHALL BE INCIDENTAL TO PAYMENT NO.515-4-2 (ALUMINIUM BULLET RAILINGS, DOUBLE RAIL).

TEMPORARY STEEL SHEET PILE NOTES (SHEET PILE TW3 AND TW4 REDESIGNED BY PREVIOUS CONTRACTOR)

- A. SHEET PILES SHALL BE OF STRUCTURAL STEEL CONFORMING TO ASTM 572 GRADE 50 (FY = 50KSI). COLD ROLLED SECTIONS WILL BE ALLOWED AS SUBSTITUTIONS FOR HOT ROLLED SECTIONS AS LONG AS THE SECTION PROPERTY REQUIREMENTS IN NOTE B ARE MET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE AVAILABILITY OF HOT-ROLLED AND COLD-ROLLED SECTIONS.
- B. STEEL SHEET PILES SHALL HAVE MINIMUM SECTION PROPERTIES PER HORIZONTAL FOOT OF WALL AS FOLLOWS:
- |                   |   |   |
|-------------------|---|---|
| WALLS             | HOT ROLLED SECTIONS   | COLD ROLLED SECTIONS  |
| TEMP. SHEET PILES | PLASTIC SECTION MODULUS = 71.92 IN <sup>3</sup><br>MOMENT OF INERTIA = 490.85 IN <sup>4</sup> | PLASTIC SECTION MODULUS = 86.30 IN <sup>3</sup><br>MOMENT OF INERTIA = 589.02 IN <sup>4</sup> |
- C. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE ALL DETAILS, DIMENSIONS AND QUANTITIES NECESSARY TO CONSTRUCT THE WALL. THE FULLY DETAILED PLANS SHALL BE PREPARED AS PER FDOT STANDARDS. SHOP DRAWINGS TO INCLUDE SIGNED AND SEALED DESIGN CALCULATIONS FOR ANCHORS AND WALER.
- D. FOR TEMPORARY SHEET PILE WALL LOCATIONS, SEE SHEET B1-3.
- E. THE CONTRACTOR SHALL ANTICIPATE HARD-DRIVING RESISTANCE THROUGH EXISTING SOIL. THE COST OF PRE-DRIVING OR THE USE OF SPECIALIZED INSTALLATION EQUIPMENT SHALL BE INCLUDED IN THE PRICE FOR SHEET PILING. NO JETTING WILL BE ALLOWED.
- F. WHEN REQUIRED FOR SHEET PILING INSTALLATION, THE CONTRACTOR SHALL PRE-FORM PILE HOLES AT 3'-0" SPACING. COST IS TO BE INCLUDED IN THE UNIT PRICE FOR PAY ITEM NO. 455-133-2. OPEN HOLES WILL NOT BE ALLOWED.
- G. THE CONTRACTOR SHALL ANTICIPATE MAINTAINING THE STABILITY OF EXISTING RETAINING WALLS DURING TEMPORARY SHEET PILE DRIVING AND THROUGHOUT EXISTING BRIDGE DEMOLITION.

SPECIAL CONSTRUCTION NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE END BENT EMBANKMENT AND CANAL DURING ALL CONSTRUCTION PHASES.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITIES THAT ARE TO REMAIN DURING CONSTRUCTION.
3. EXISTING SPANS, ANGLES, DISTANCES, ELEVATIONS, ETC. SHOWN ON THESE PLANS ARE BASED ON THE EXISTING BRIDGE PLANS OR FROM ACTUAL FIELD SURVEY. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL THE ABOVE PRIOR TO COMMENCING THE WORK AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
4. CONTRACTOR SHALL TACK WELD ALL NUTS ON ALUMINUM BULLET RAILINGS.
5. DURING CONSTRUCTION CONTRACTOR IS RESPONSIBLE FOR STAGING AREA. IT WILL NOT BE PROVIDED BY THE COUNTY.



NOTES TO CONTRACTOR:

1. THE FOLLOWING LIST OF ITEMS HAVE BEEN PREVIOUSLY CONSTRUCTED AT STAGE 1A ONLY. THE CONTRACTOR WILL NOTIFY THE ENGINEER OF RECORD PRIOR TO BEGINNING CONSTRUCTION IF FIELD CONDITIONS DIFFER:
- A. TEMPORARY SHEET PILE WALLS TW3 AND TW4. THE PREVIOUS CONTRACTOR REVISED THE LAYOUT AND DESIGN OF TEMPORARY SHEET PILE WALLS TW3 AND TW4. PLEASE REFER TO REVISED DESIGN AND LAYOUT AS PER AMERICAN EMPIRE BUILDERS, INC (AEB) SUBMITTAL NUMBERS 005A, 007, 014, 016, 018, AND 024.
- B. CONCRETE PILE BENTS:
- i. END BENT 1 – DRIVEN CONCRETE PILES AND PILE CAP
  - ii. INTERMEDIATE BENT 2 –DRIVEN CONCRETE PILES AND PILE CAP
  - iii. INTERMEDIATE BENT 3 DRIVEN CONCRETE PILES AND PILE CAP
  - iv. END BENT 4 – DRIVEN CONCRETE PILE AND PILES CAP
2. STAGE 1A OF THE SUBSTRUCTURE AND TEMPORARY SHEET PILE WALLS TW3 AND TW4 WERE CONSTRUCTED / INSTALLED BY THE PREVIOUS CONTRACTOR. THE CONTRACTOR HAS THE OPTION TO USE WHAT HAS BEEN INSTALLED PREVIOUSLY OR REMOVE AND REPLACE. IF THE CONTRACTOR CHOOSES TO USE THE IN-PLACE PORTION OF THE BRIDGE OR THE TEMPORARY SHEET PILE WALLS (SUBSTRUCTURE AND TEMPORARY WALLS PREVIOUSLY CONSTRUCTED BY AEB IN STAGE 1A), THEY ARE TO REVIEW, PROVIDE WRITTEN ACCEPTANCE PREPARED BY A FL PE IN A FORM OF CERTIFICATION, AND TAKE RESPONSIBILITY FOR THE WORK THAT WAS PREVIOUSLY DONE. THE REMOVAL OF ANY PREVIOUS WORK SHALL BE PAID FOR UNDER PAY ITEM 110-3. ALL QUANTITIES ON THIS PLAN SET INCLUDE THOSE PREVIOUSLY CONSTRUCTED. NO DEDUCTION IN QUANTITIES HAS BEEN MADE DUE TO PREVIOUS CONSTRUCTION EFFORTS.
3. PREVIOUSLY INSTALLED TEMPORARY SHEET PILE WALLS ARE TO BECOME PROPERTY OF CONTRACTOR.
4. PLEASE SEE THE FOLLOWING DOCUMENTATION PROVIDED BY AEB.
- A. AS-BUILT SURVEY PILE CAPS ELEVATIONS, PEGASUS LAND SURVEYORS INC., AUGUST 21, 2024.
  - B. AS-BUILT CANAL CROSS SECTIONS, PEGASUS LAND SURVEYORS INC., AUGUST 16, 2024.
  - C. STRUCTURAL CALCULATIONS, SOLVER STRUCTURAL PARTNERSHIP, INC., OCTOBER 5, 2022.
  - D. REPORT OF A GEOTECHNICAL EXPLORATION SHEET-PILE WALLS BEGIN TW3 END TW4, CEN GEOTECHNICAL & ENVIRONMENTAL SOLUTIONS, INC., AUGUST 3, 2022.
  - E. AEB SUBMITTAL NUMBERS 005A, 007, 014, 016, 018, AND 024.

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

	NAME	DATE		NAME	DATE
DESIGNED BY	BKR	09/2019	DRAWN BY	CMH	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

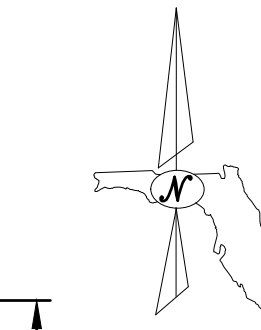
MIAMI-DADE COUNTY

TRANSPORTATION AND PUBLIC WORKS DEPARTMENT

STEPHEN P. CLARK, CENTER  
111 NW 1-33  
MIAMI, FL 33128

BRIDGE GENERAL NOTES
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

BRIDGE NO. 874650



## PLAN

- [illegible]

ELEVATION

NOTE:

- LEGEND:

 EXISTING BRIDGE TO BE REMOVED

⊕ POINT OF LOW MEMBER ELEVATION

EJ EXPANSION JOINT

☐ SUBSTRUCTURE PREVIOUSLY CONSTRUCTED

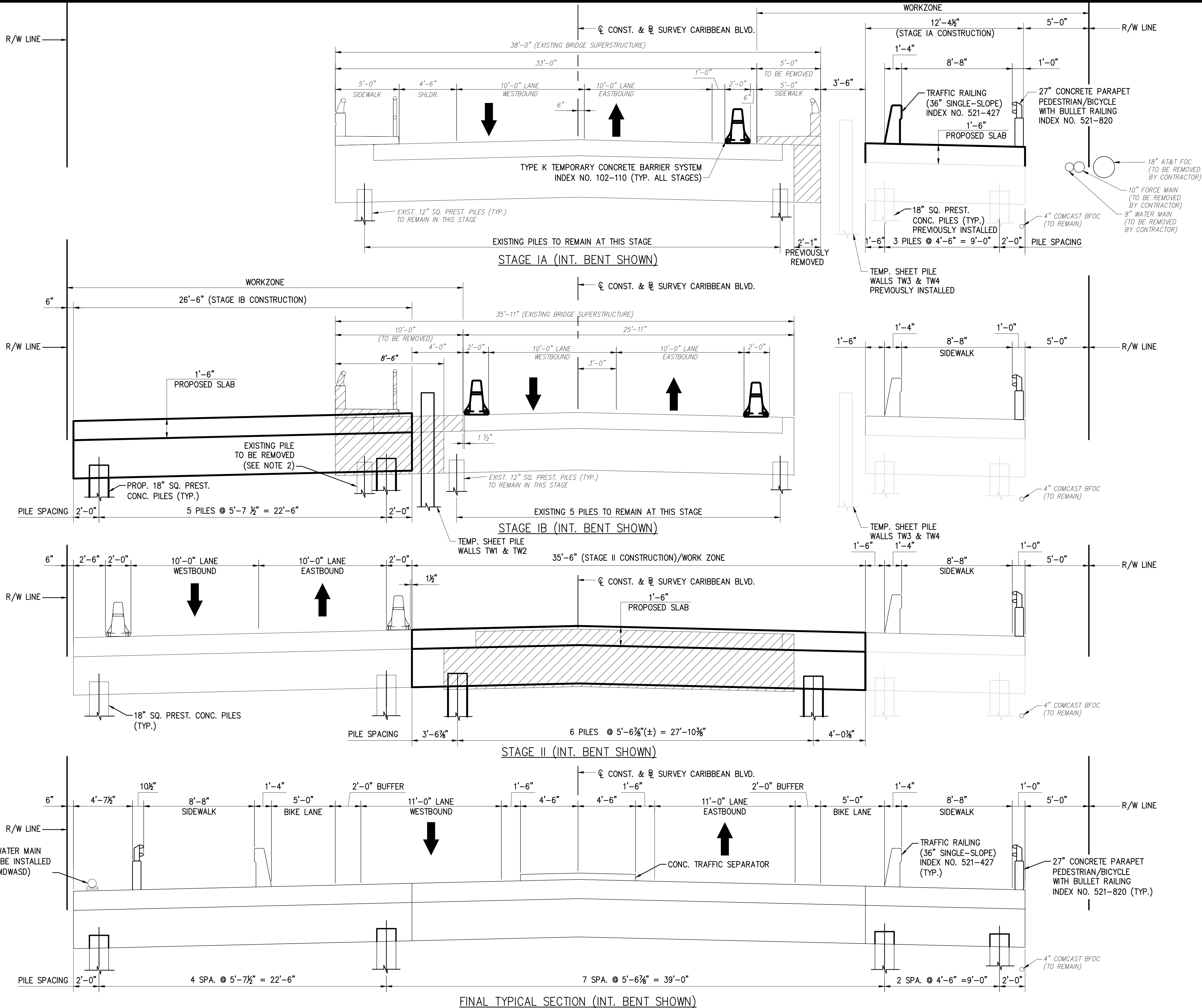
BRIDGE NO. 874650

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

**MIAMI-DADE COUNTY** **TRANSPORTATION AND PUBLIC WORKS DEPARTMENT**  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FL 33128

**CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL**

C:\Users\Rodriguez\OneDrive - Jacobs\ONE DRIVE PROJECTS\Caribbean Blvd\B1-03 Const\Seq01.dwg Jan 22, 2025 - 1:00pm RODRIGUEZ



**STAGE IA PREVIOUS CONTRACTOR COMPLETED  
STAGE IA WITH THE EXCEPTION OF CONSTRUCTING  
SUPERSTRUCTURE AND APPROACH SLABS**

1. REMOVE SOUTHERN SIDEWALK AND PLACE TEMPORARY FDOT BARRIER WALL IN ACCORDANCE WITH STANDARD INDEX NO. 102-110 AND SHIFT TRAFFIC AS INDICATED.
2. REMOVE PORTION OF EXISTING SLAB AND BENTS.
3. DREDGE CANAL.
4. DRIVE PRECAST CONCRETE PILES AND CONSTRUCT SOUTHERN PORTION OF BRIDGE.
5. BUILD SLOPE EMBANKMENT.
6. CONSTRUCT BENT CAPS, SUPERSTRUCTURE AND APPROACH SLABS.
7. REMOVE EXISTING UTILITIES AND BULKHEAD WALL AND DRIVE SHEET PILE WALLS TW3 AND TW4.

**STAGE IB**

1. RELOCATE TEMPORARY BARRIER WALL AND SHIFT TRAFFIC.
2. REMOVE NORTHERN SIDEWALK AND EXISTING SLAB AND BENTS.
3. INSTALL TEMPORARY SHEET PILE WALLS TW1 AND TW2.
4. DREDGE CANAL.
5. DRIVE PRECAST CONCRETE PILES AND CONSTRUCT NORTHERN PORTION OF BRIDGE.
6. BUILD SLOPE EMBANKMENT.
7. CONSTRUCT BENT CAPS, SUPERSTRUCTURE, AND APPROACH SLABS.
8. DRIVE PRECAST CONCRETE PILES AND CONSTRUCT NORTHERN PORTION OF BRIDGE.

**STAGE II**

1. RELOCATE TEMPORARY BARRIER WALLS.
2. SHIFT TRAFFIC ON NEWLY CONSTRUCTED NORTHERN PORTION OF BRIDGE AND OPEN NEW SOUTHERN SIDEWALK TO PEDESTRIANS.
3. REMOVE REMAINING PORTION OF EXISTING BRIDGE.
4. REMOVE SHEET PILE WALLS.
5. CONSTRUCT REMAINING PORTION OF FINAL BRIDGE.

**STAGE III**

1. SHIFT TRAFFIC TO NEWLY CONSTRUCTED PORTION.
2. INSTALL BARRIERS IN NORTHERN PORTION OF BRIDGE.
3. REMOVE TEMPORARY BARRIERS.
4. PLACE FINAL STRIPPING.

**NOTES**

1. FOR ADDITIONAL NOTES AND DETAILS, SEE TRAFFIC CONTROL PLANS.
2. ALL EXISTING DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THEM PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

**BRIDGE NO. 874650**

REVISIONS								
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

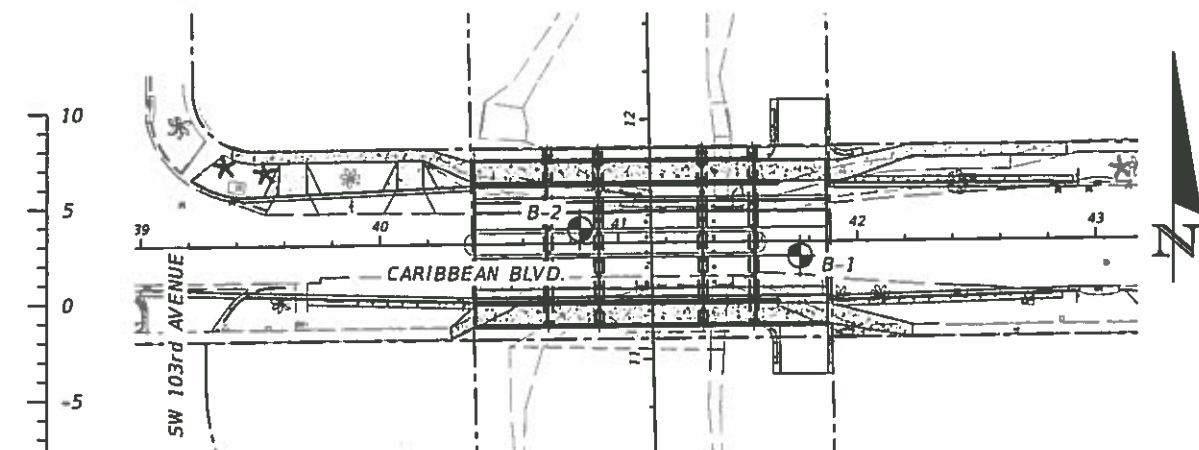
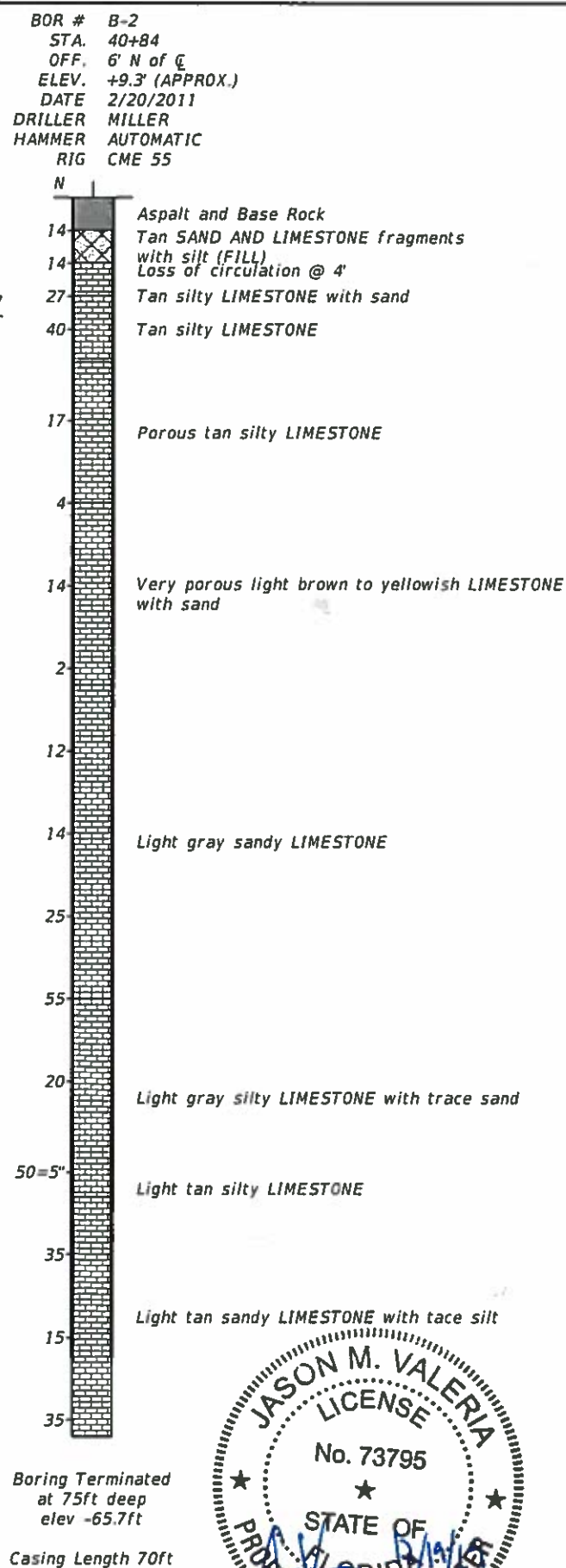
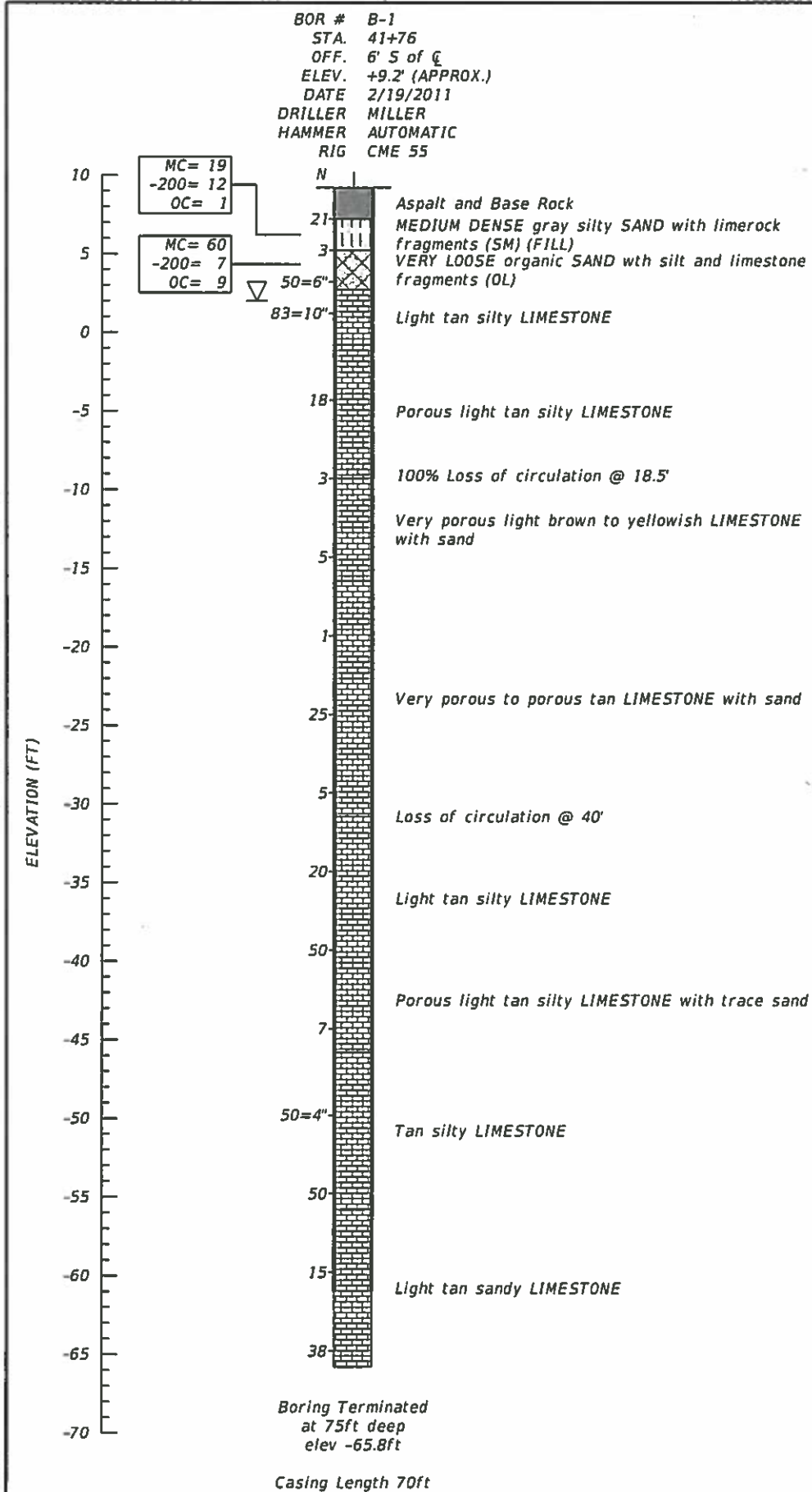
Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BKR	09/2019		CMH	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

MIAMI-DADE COUNTY		TRANSPORTATION AND PUBLIC WORKS DEPARTMENT	
STEPHEN P. CLARK, CENTER 111 NW 1 ST MIAMI, FL 33128			

CONSTRUCTION SEQUENCE	
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL	

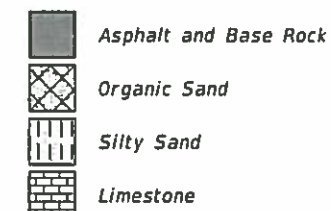




BORING LOCATION PLAN

LOCATION OF SPT BORING

LEGEND



▽ = Groundwater Table  
MC = Natural Moisture Content  
-200 = % Passing #200 Sieve  
OC = % Organic Content

ENVIRONMENTAL CLASSIFICATION

SUPERSTRUCTURE: SLIGHTLY AGGRESSIVE  
SUBSTRUCTURE: SLIGHTLY AGGRESSIVE

GENERAL NOTES

DRILL AND PENETRATION TESTING WERE PERFORMED IN ACCORDANCE WITH ASTM D 1586. NUMBER TO THE LEFT OF BORING INDICATES BLOWS OF 1 3/8" I.D., 2" O.D. SPLIT-SPOON FOR 12" PENETRATION (UNLESS OTHERWISE NOTED) WITH A 140 LB HAMMER DROPPED 30 INCHES.

THE BORING LOGS SHOWN REPRESENT SUBSURFACE CONDITIONS WITHIN THE BOREHOLE AT THE TIME OF DRILLING. NO WARRANTY AS TO THE SUBSURFACE CONDITION, STRATA DEPTH OR SOIL CONSISTENCY BETWEEN OR OUTSIDE BORING LOCATIONS IS EXPRESSED OR IMPLIED BY THIS DRAWING.

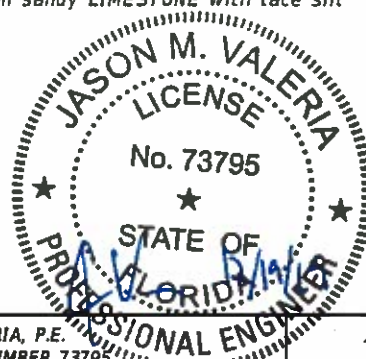
REFER TO GEOTECHNICAL REPORT BY GANNETT FLEMING FOR DETAILED BORING INFORMATION.

GRANULAR MATERIALS

Relative Density	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
	Less than 4	Less than 3
Very Loose	4 - 10	3 - 8
Loose	10 - 30	8 - 24
Medium Dense	30 - 50	24 - 40
Dense	Greater than 50	Greater than 40

SILTS AND CLAYS

Consistency	Safety Hammer SPT N-Value (Blow/Foot)	Automatic Hammer SPT N-Value (Blow/Foot)
	Less than 2	Less than 1
Very Soft	2 - 4	1 - 3
Soft	4 - 8	3 - 6
Firm	8 - 15	6 - 12
Stiff	15 - 30	12 - 24
Very Stiff	Greater than 30	Greater than 24



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON M. VALERIA, P.E.  
P.E. LICENSE NUMBER 73795  
GANNETT FLEMING, INC.  
10161 CENTURION PARKWAY N., SUITE 300  
JACKSONVILLE, FL 32256-4122  
CERTIFICATE OF AUTHORIZATION 5564

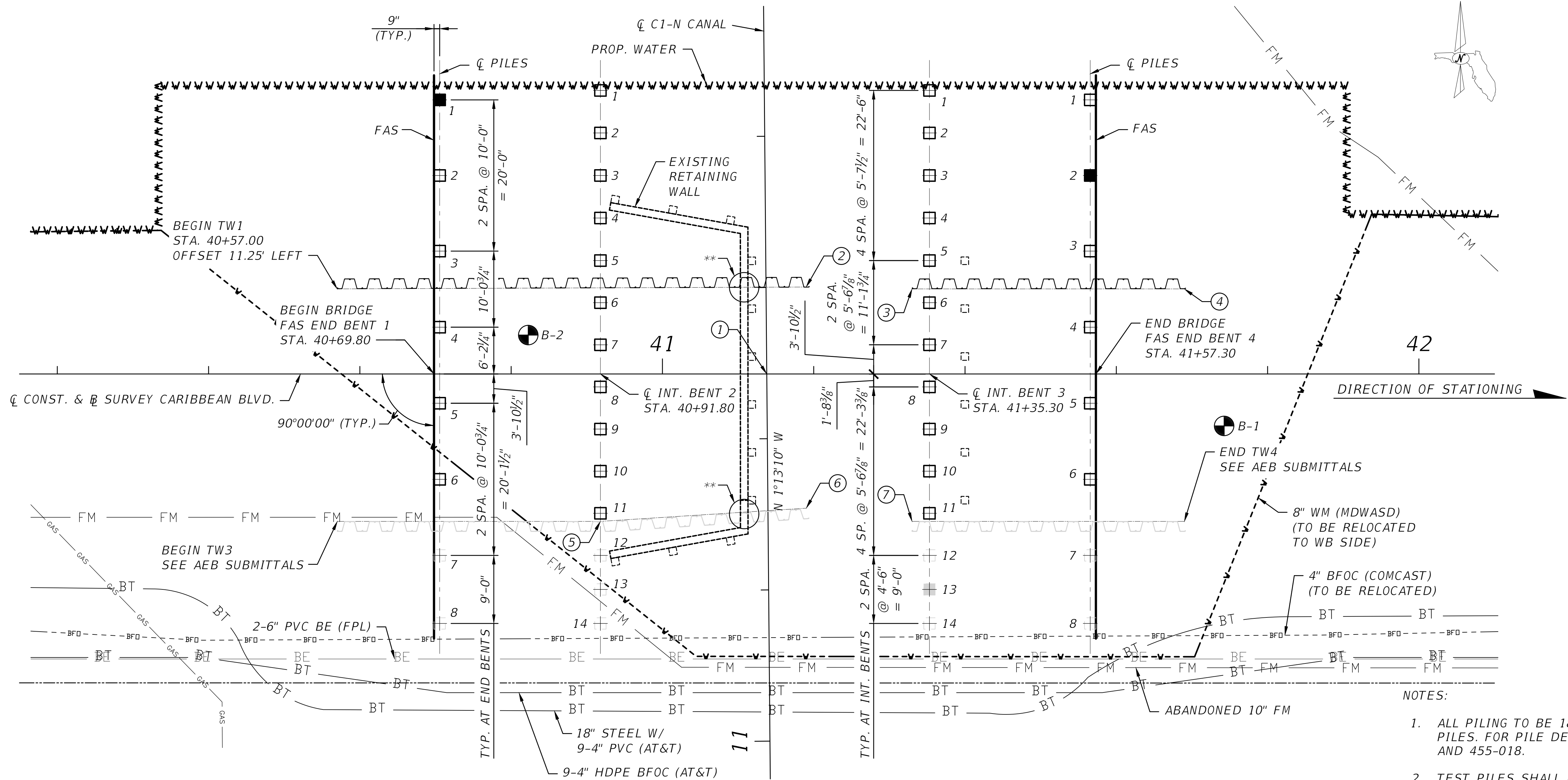
MIAMI-DADE COUNTY DEPARTMENT OF  
TRANSPORTATION AND PUBLIC WORKS

ROAD NAME	COUNTY	PROJECT NO.
CARIBBEAN BLVD	MIAMI-DADE	EDP-MT-CIP209

REPORT OF CORE BORINGS

SHEET  
NO.

B1-4



- ①  $\varnothing$  CONST. &  $\varnothing$  SURVEY CARIBBEAN BLVD.  
STA. 41+13.79 =  $\varnothing$  C1-N CANAL, STA. 11+48.57
- ② END TW1  
STA. 41+19.00  
OFFSET 11.50' LEFT
- ③ BEGIN TW2  
STA. 41+33.00  
OFFSET 11.25' LEFT
- ④ END TW2  
STA. 41+69.00  
OFFSET 11.25' LEFT
- ⑤ STA. 40+91.80  
OFFSET 19.50' RIGHT
- ⑥ END TW3  
SEE AEB SUBMITTALS
- ⑦ BEGIN TW4  
SEE AEB SUBMITTALS

**PLAN**

\*\* THE METHOD OF HANDLING CONFLICTS WITH EXISTING RETAINING WALL SYSTEM SHALL BE PROVIDED BY THE CONTRACTOR'S SPECIALTY ENGINEER AND APPROVED BY THE ENGINEER OF RECORD PRIOR TO BRIDGE DEMOLITION/CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO ENSURE EXISTING RETAINING WALL STABILITY DURING ANY AND ALL CONSTRUCTION ACTIVITIES. FOR EXISTING RETAINING WALL INFORMATION, SEE EXISTING BRIDGE PLANS.

1. ALL PILING TO BE 18" SQUARE PRESTRESSED CONCRETE PILES. FOR PILE DETAILS, SEE INDEX NO. 455-001, 455-002, AND 455-018.
2. TEST PILES SHALL BE PLUMB AND DRIVEN IN THE POSITION OF A PERMANENT PILE AND SHALL BE DYNAMICALLY LOAD TESTED, USING PILE DRIVING ANALYZER (PDA). TEST PILE LENGTHS ARE INDICATED IN THE PILE DATA TABLE.
3. THE CONTRACTOR SHALL NOTIFY APPROPRIATE UTILITY COMPANIES AND REQUEST VERIFICATION AND EXPOSURE OF EXISTING UNDERGROUND UTILITIES BEFORE COMMENCING PILE DRIVING OPERATIONS.

**LEGEND:**

- 18" SQUARE PRESTRESSED CONCRETE PILE
- TEST PILE
- ⊕ BORING LOCATION
- EXISTING PILE TO BE COMPLETELY REMOVED OR CUT TO 2'-0" BELOW PROPOSED GROUND.
- PREVIOUSLY INSTALLED PILE
- PREVIOUSLY INSTALLED TEST PILE
- FAS FACE OF APPROACH SLAB

**BRIDGE NO. 874650**

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
	BKR	09/2019		CM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

TRANSPORTATION AND PUBLIC WORKS DEPARTMENT	
MIAMI-DADE COUNTY	STEPHEN P. CLARK, CENTER 111 NW 1 ST MIAMI, FL 33128

FOUNDATION LAYOUT	
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL	

C:\Users\RodrigCE1\OneDrive - Jacobs\ONE DRIVE PROJECTS\Corribben Blvd\B1-06 PileData01.dwg, Jan. 30, 2025 - 4:46pm RODRIGCE1

PILE DATA TABLE - SEE PILE DRIVING RECORDS FOR AS-BUILT INFORMATION AT STAGE 1A																
INSTALLATION CRITERIA								DESIGN CRITERIA								
PIER or BENT NUMBER	PILE SIZE (in.)	NOMINAL BEARING RESISTANCE (tons)	NOMINAL UPLIFT RESISTANCE (tons)	MINIMUM TIP ELEVATION (ft.)	TEST PILE LENGTH (ft.)	REQUIRED JET ELEVATION (ft.)	REQUIRED PREFORM ELEVATION (ft.)	FACTORED DESIGN LOAD (tons)	FACTORED DESIGN UPLIFT LOAD (tons)	DOWN DRAG (tons)	TOTAL SCOUR RESISTANCE (tons)	NET SCOUR RESISTANCE (tons)	100-YEAR SCOUR ELEVATION (ft.)	LONG TERM SCOUR ELEVATION (ft.)	Ø COMPRESSION	Ø UPLIFT
EB-1	18	157	N/A	N/A	70	N/A	-4	102	-	-	N/A	N/A	N/A	N/A	0.65	N/A
IB-2	18	157	N/A	N/A	N/A	N/A	N/A	100	-	-	2	2	-14	-14	0.65	N/A
IB-3	18	157	N/A	N/A	70	N/A	N/A	100	-	-	2	2	-14	-14	0.65	N/A
EB-4	18	157	N/A	N/A	70	N/A	-4	102	-	-	N/A	N/A	N/A	N/A	0.65	N/A

PILE INSTALLATION NOTES:

CONTRACTOR TO VERIFY LOCATION OF ALL UTILITIES PRIOR TO ANY PILE INSTALLATION ACTIVITIES.

WHEN A REQUIRED JETTING ELEVATION IS SHOWN, THE JET SHALL BE LOWERED TO THE ELEVATION AND CONTINUE TO OPERATE AT THIS ELEVATION UNTIL THE PILE DRIVING IS COMPLETED. IF JETTING OR PREFORMING ELEVATIONS DIFFER FROM THOSE SHOWN ON THE TABLE, THE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINATION OF THE REQUIRED DRIVING RESISTANCE. NO JETTING WILL BE ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER.

THE CONTRACTOR SHOULD NOT ANTICIPATE BEING ALLOWED TO JET PILES BELOW THE 100-YEAR SCOUR ELEVATION OR REQUIRED JET ELEVATION, WHICHEVER IS DEEPER.

AT EACH BENT, PILE DRIVING IS TO COMMENCE AT THE CENTER OF THE BENT AND PROCEED OUTWARD.

THE AVAILABLE TEST BORINGS INDICATE THAT THE NEAR SURFACE LIMESTONE MAY NOT PERMIT THE INSTALLATION OF PILES TO THE DESIRED PENETRATION. THEREFORE, PREFORMING IS REQUIRED TO THE ELEVATIONS NOTED ON THE PILE DATA TABLE. PREFORMING SHALL FOLLOW FDOT STANDARD SPECIFICATION 455-5.10 AND INCLUDE ALL SPECIAL CONSTRUCTION EFFORTS TO PENETRATE THE LIMESTONE PRIOR TO PILE DRIVING.

DYNAMIC LOAD TESTS SHALL BE PERFORMED ON ALL TEST PILES SHOWN IN THE PLANS IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS 455-5.13 AND 455-5.14. THESE PILES SHALL BE INSTALLED IN THE POSITION OF THE PERMANENT PILES AT THE DESIGNATED POSITIONS BY USING THE SAME EQUIPMENT AND METHOD PROPOSED FOR INSTALLATION OF PRODUCTION PILES.

MINIMUM TIP ELEVATION IS GOVERNED BY THE PENETRATION REQUIREMENTS OF FDOT STANDARD SPECIFICATION 455-5.9 AND ANY OTHER LIMITS ESTABLISHED BY THE STRUCTURAL ENGINEER.

THE ANTICIPATED PILE TIP ELEVATIONS ARE SHOWN IN THE GEOTECHNICAL REPORT PREPARED BY GANNET FLEMING. HOWEVER, THE ANTICIPATED PILE TIP ELEVATIONS ARE PROVIDED AS A GUIDE FOR A TOTAL ESTIMATE OF PILE QUANTITY NEEDED FOR THE PROJECT. THESE ELEVATIONS ARE BASED ON INFORMATION AVAILABLE DURING DESIGN AND ARE APPROXIMATE. THE ANTICIPATED TIP ELEVATIONS SHALL NOT BE USED FOR DETERMINING THE LENGTH OF PRODUCTION PILES. THE AUTHORIZED LENGTH OF PRODUCTION PILES WILL BE ESTABLISHED IN THE FIELD WHEN THE BLOW COUNT IS INCREASING AND THE BLOW COUNT CRITERIA (AS DETERMINED BY DYNAMIC LOAD TESTS) HAS BEEN MET. THE AUTHORIZED PILE LENGTHS MAY VARY SIGNIFICANTLY FROM THE ANTICIPATED PILE LENGTHS.

$$\frac{\text{FACTORED DESIGN LOAD} + \text{NET SCOUR RESISTANCE} + \text{DOWN DRAG}}{\phi} \leq \text{NOMINAL BEARING RESISTANCE}$$

TENSION RESISTANCE - THE ULTIMATE SIDE FRICTION CAPACITY THAT MUST BE OBTAINED BELOW THE 100 YEAR SCOUR ELEVATION TO RESIST PULLOUT OF THE PILE (SPECIFY ONLY WHEN DESIGN REQUIRES TENSION CAPACITY).

TOTAL SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SCOURABLE SOIL.

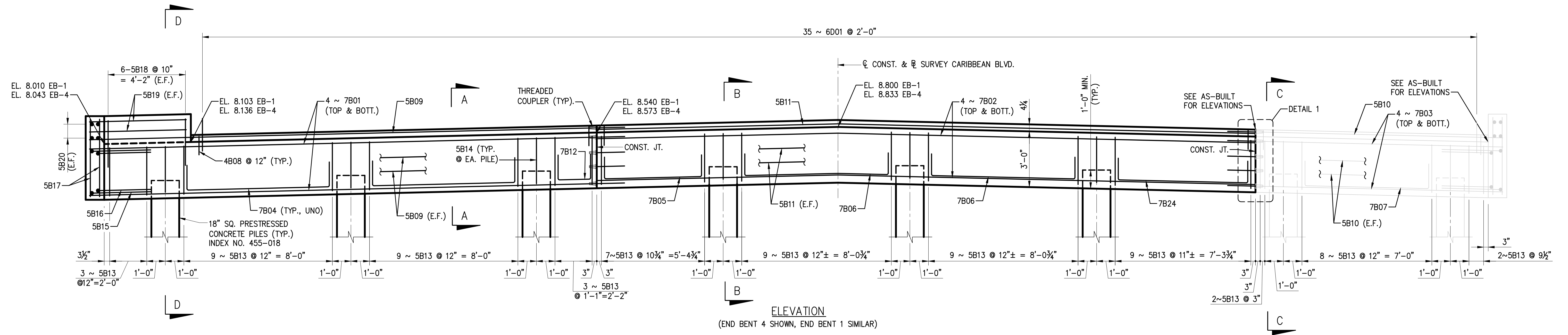
NET SCOUR RESISTANCE - AN ESTIMATE OF THE ULTIMATE STATIC SIDE FRICTION RESISTANCE PROVIDED BY THE SOIL FROM THE REQUIRED PREFORMED OR JETTING ELEVATION TO THE SCOUR ELEVATION.

100-YEAR SCOUR ELEVATION - ESTIMATED ELEVATION OF SCOUR DUE TO THE 100 YEAR STORM EVENT.

LONG TERM SCOUR ELEVATION - ESTIMATED ELEVATION OF SCOUR USED IN DESIGN FOR EXTREME EVENT LOADING.

BRIDGE NO. 874650

R E V I S I O N S									Jacobs Engineering Group, Inc. 3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146 Tel. (305) 392-5193 CERTIFICATE OF AUTHORIZATION NO. 2822 ENGINEER OF RECORD: BRETT K. RAKITA P.E. NO. 59474	<table><tr><td></td><td>NAME</td><td>DATE</td><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY</td><td>BKR</td><td>09/2019</td><td>DRAWN BY</td><td>CMH</td><td>09/2019</td></tr><tr><td>CHECKED BY</td><td>RM/AJM</td><td>09/2019</td><td>CHECKED BY</td><td>SZ</td><td>09/2019</td></tr><tr><td colspan="6">SUPERVISED BY: BRETT RAKITA</td></tr></table>		NAME	DATE		NAME	DATE	DESIGNED BY	BKR	09/2019	DRAWN BY	CMH	09/2019	CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019	SUPERVISED BY: BRETT RAKITA						<div><div>MIAMI-DADE COUNTY</div><div>TRANSPORTATION AND PUBLIC WORKS DEPARTMENT</div><div>STEPHEN P. CLARK, CENTER 111 NW 1 ST MIAMI, FL 33126</div></div>	PILE DATA TABLE
	NAME	DATE		NAME	DATE																															
DESIGNED BY	BKR	09/2019	DRAWN BY	CMH	09/2019																															
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019																															
SUPERVISED BY: BRETT RAKITA																																				
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL																											



NOTES:

1. FOR SECTIONS A-A, B-B, C-C, D-D, AND VIEW E-E, SEE SHEET B1-8.
2. FOR DETAIL 1, SEE SHEET B1-10.

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

**MIAMI-DADE COUNTY** **TRANSPORTATION AND PUBLIC WORKS DEPARTMENT**  
STEPHEN P. CLARK CENTER  
111 NW 1 ST  
MIAMI, FL 33128

END BENT 1 OR 4

---

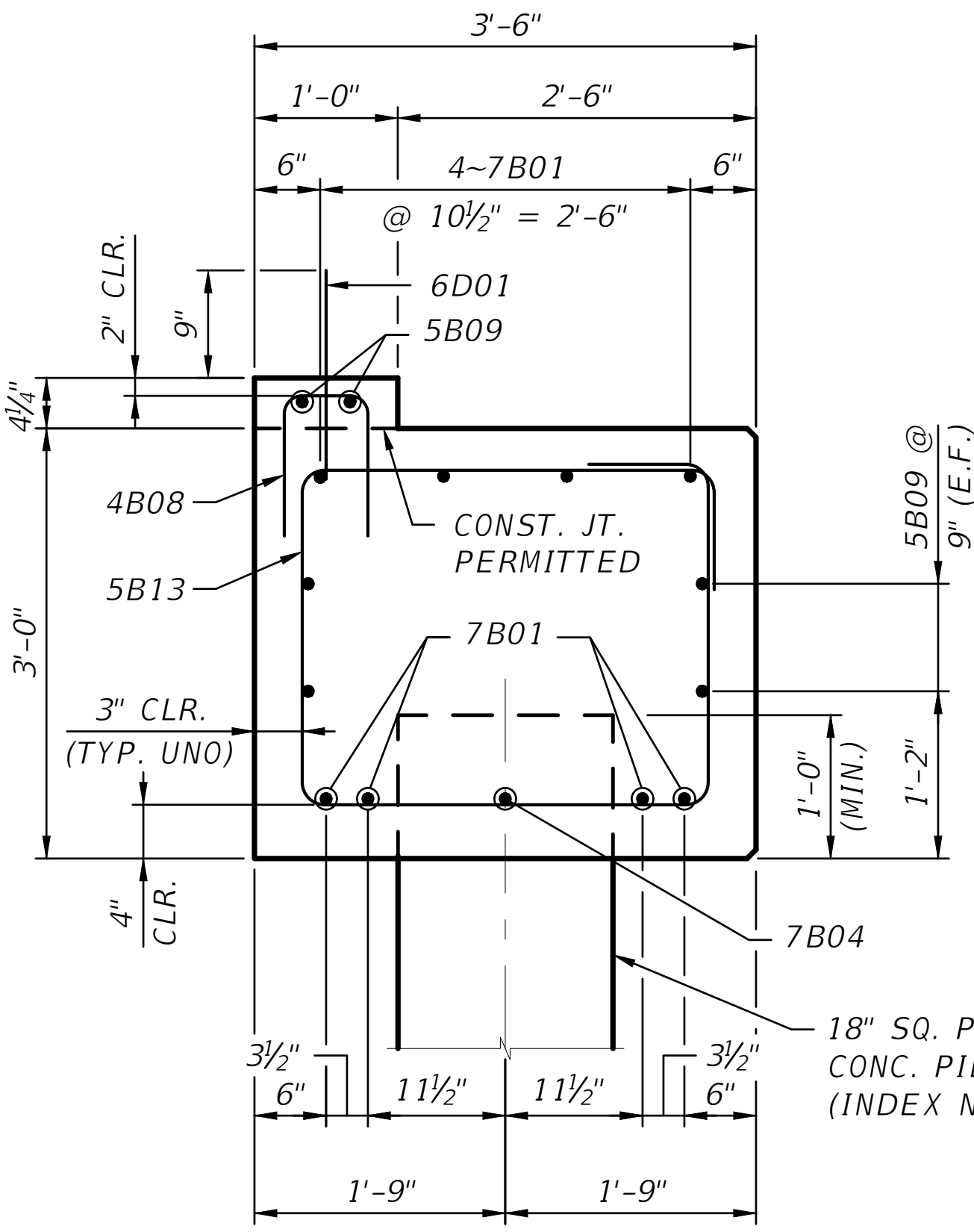
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

**BRIDGE NO. 874650**

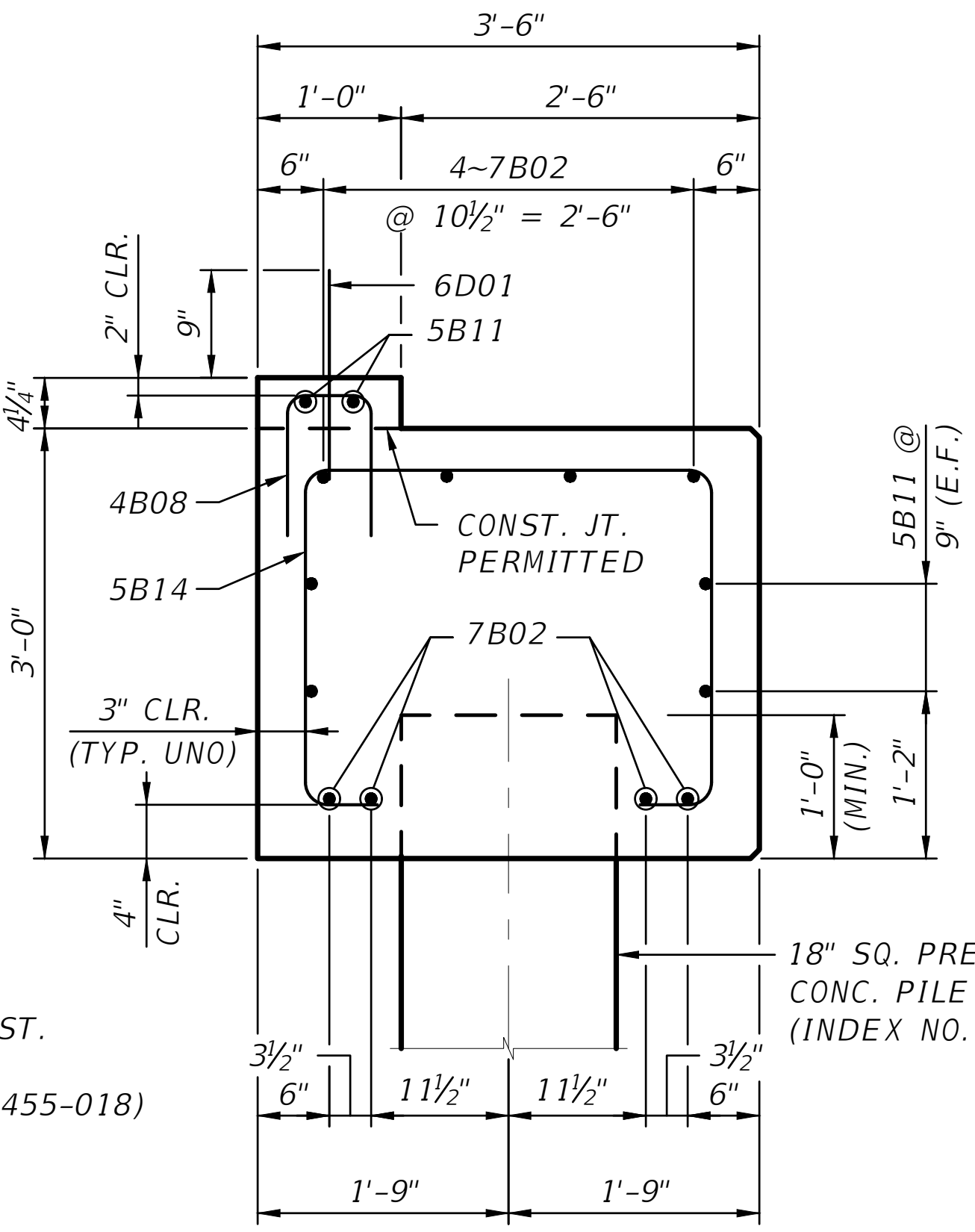


NOTES:

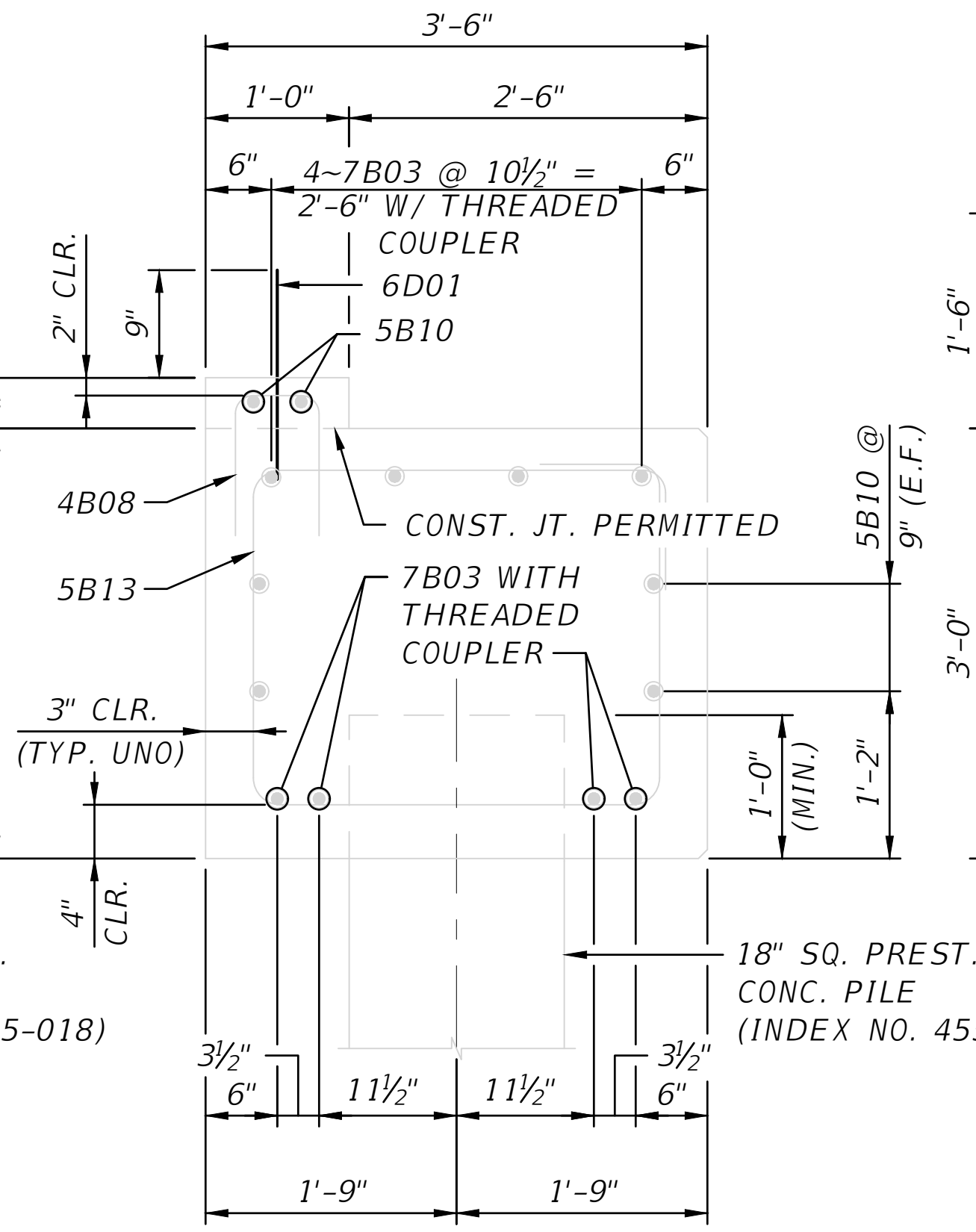
1. FOR LOCATIONS OF SECTION A-A, SECTION B-B, SECTION C-C, SECTION D-D, AND VIEW E-E, SEE SHEET B1-7.



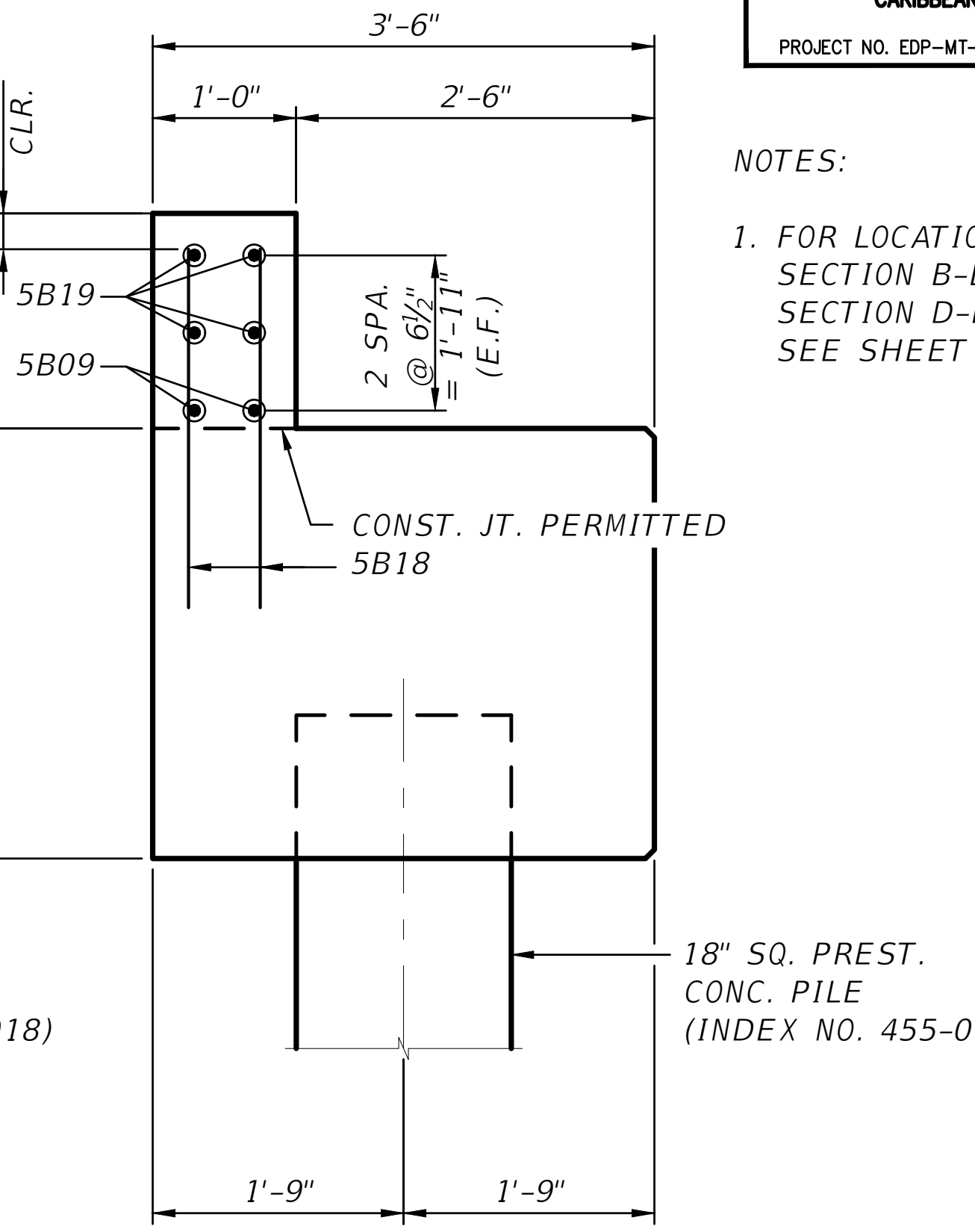
SECTION A-A



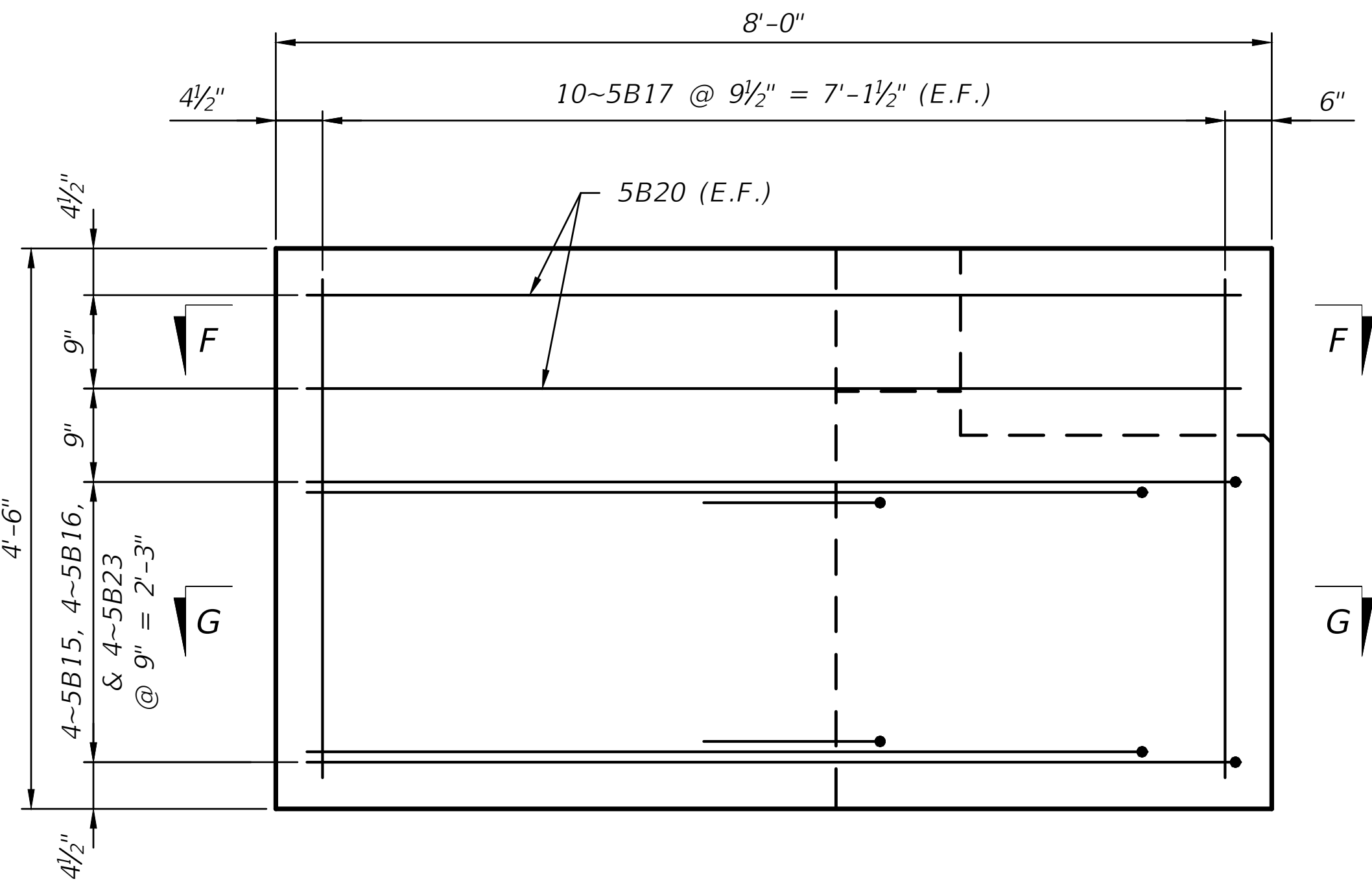
SECTION B-B



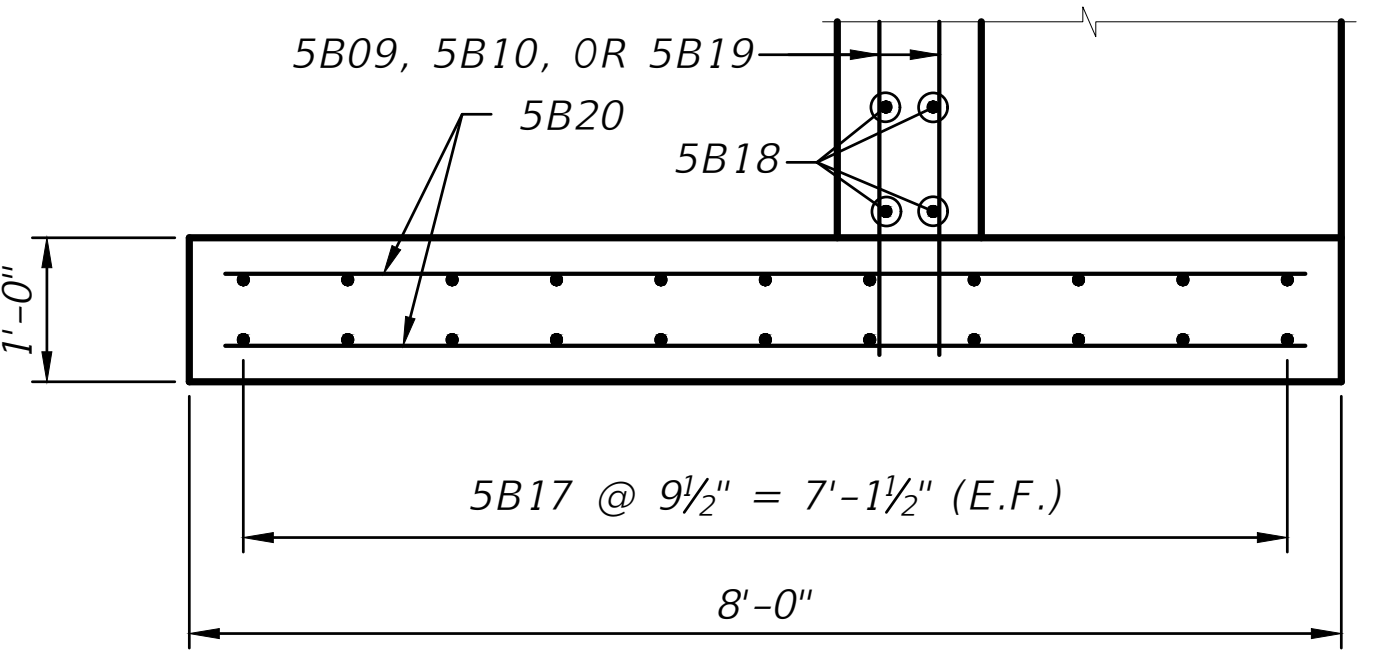
SECTION C-C



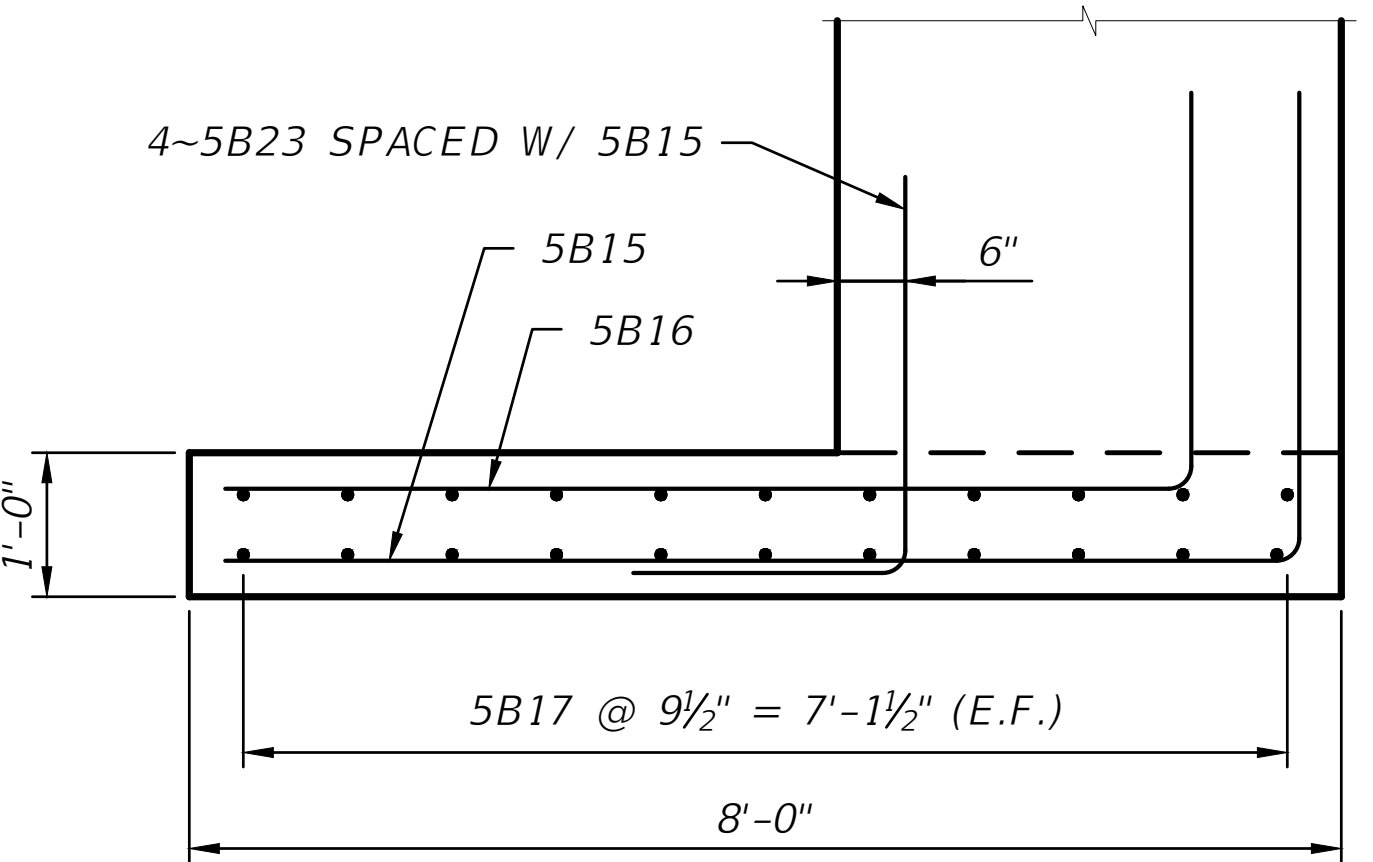
SECTION D-D  
(TYPICAL END BENT REINFORCING  
NOT SHOWN FOR CLARITY)



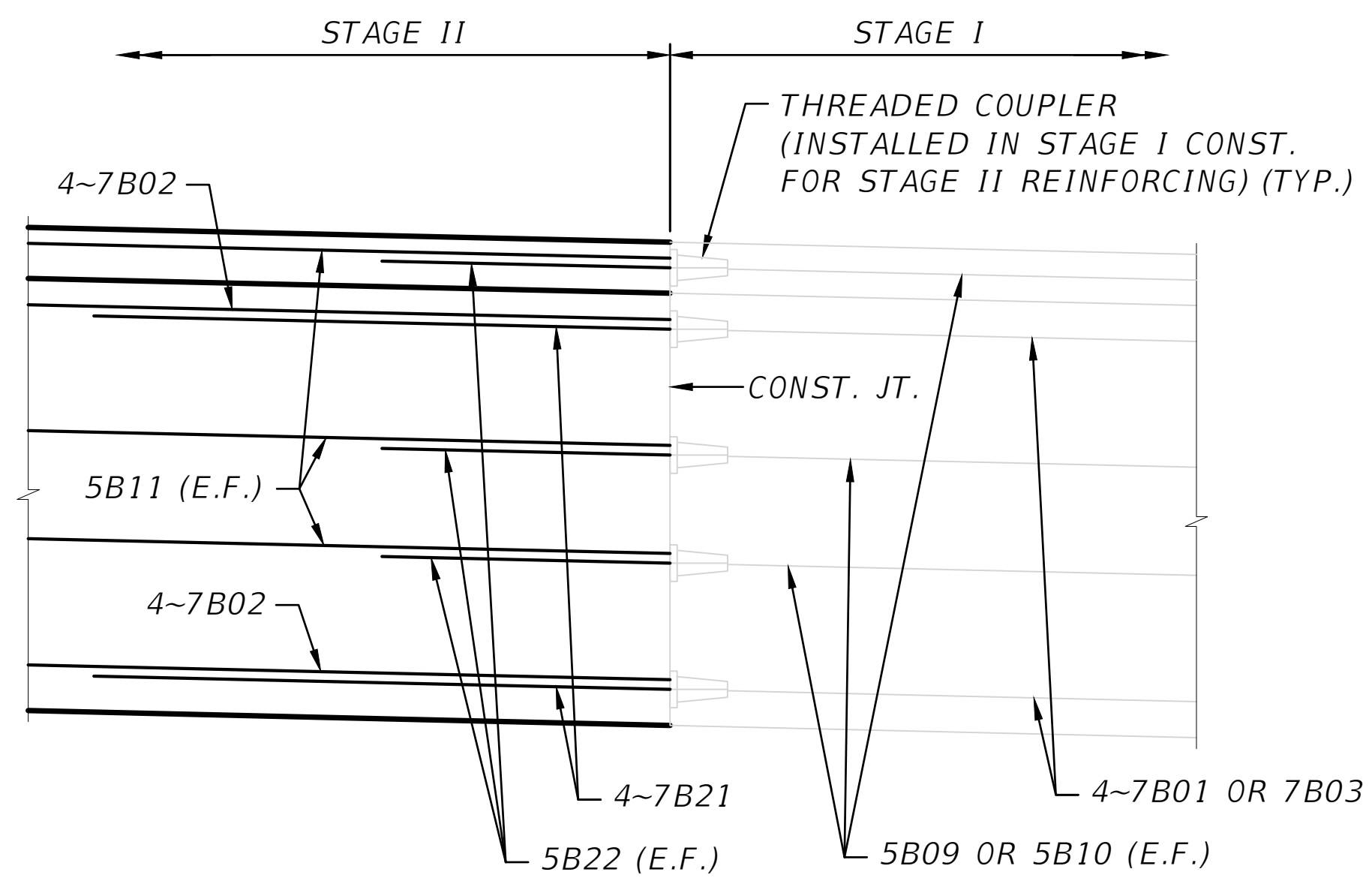
VIEW E-E



SECTION F-F



SECTION G-G



DETAIL 1

C:\Users\Rodriguez\OneDrive - Jacobs\ONE DRIVE PROJECTS\Caribbean Blvd\B1-08 EndBentDet01.dwg Jun 30, 2025 - 3:33pm RODRIGUEZ

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

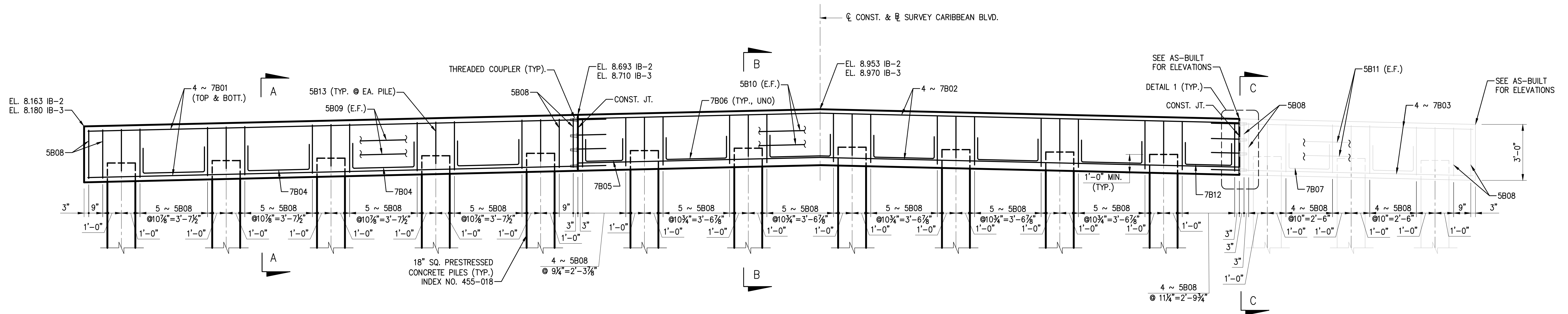
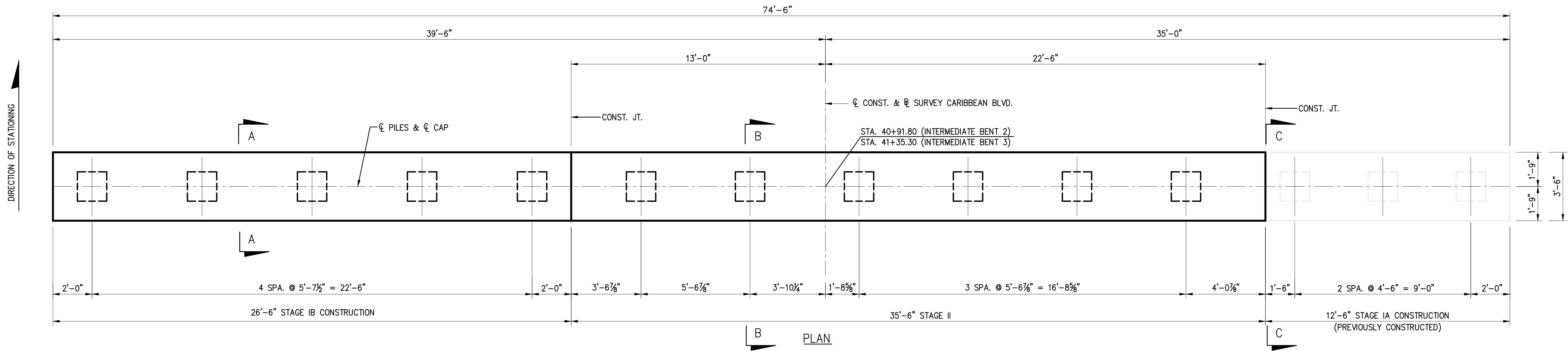
Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
CHKD BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

MIAMI-DADE COUNTY  
TRANSPORTATION AND PUBLIC WORKS DEPARTMENT  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

BRIDGE NO. 874650  
END BENT DETAILS  
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL





ESTIMATED QUANTITIES (INCLUDES STAGE IA PREVIOUSLY BUILT)		
ITEM	UNIT	QUANTITY
CLASS IV CONCRETE (SUBSTRUCTURE)	CY	53.2
REINFORCING STEEL (SUBSTRUCTURE)	LB	4,660

- NOTES:
- FOR SECTION A-A, SECTION B-B, SECTION C-C, AND DETAIL 1, SEE SHEET B1-10.

C:\Users\Rodriguez\OneDrive - Jacobs\ONE DRIVE PROJECTS\Caribbean Blvd\B1-09 IntBent01.dwg Jan 30, 2025 - 4:54pm RODRIGUEZ

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

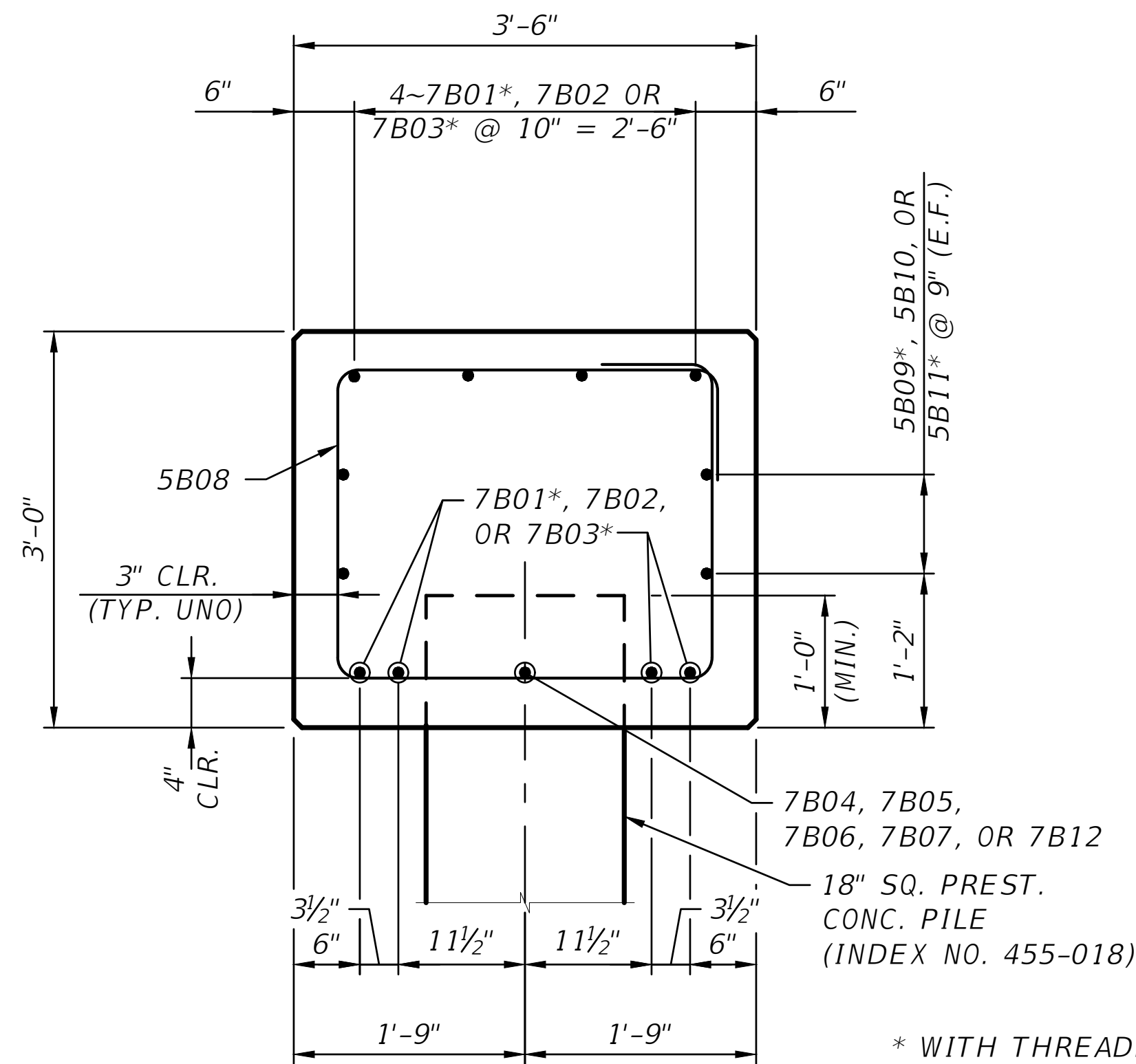
Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BKR	BKR	09/2019	CM	CM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

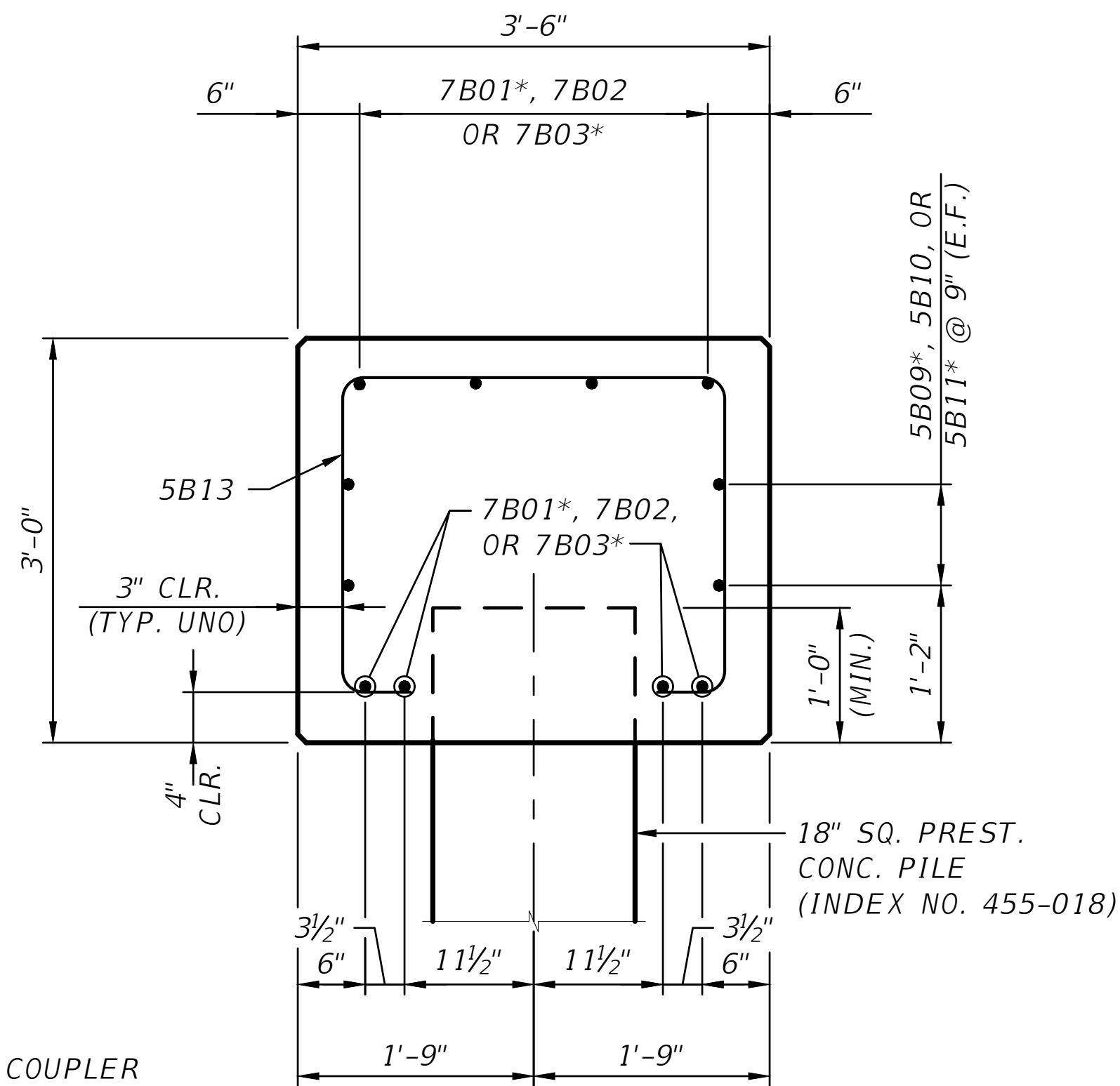
**MIAMI-DADE COUNTY**  
**TRANSPORTATION AND PUBLIC WORKS DEPARTMENT**  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

INTERMEDIATE BENT 2 OR 3
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

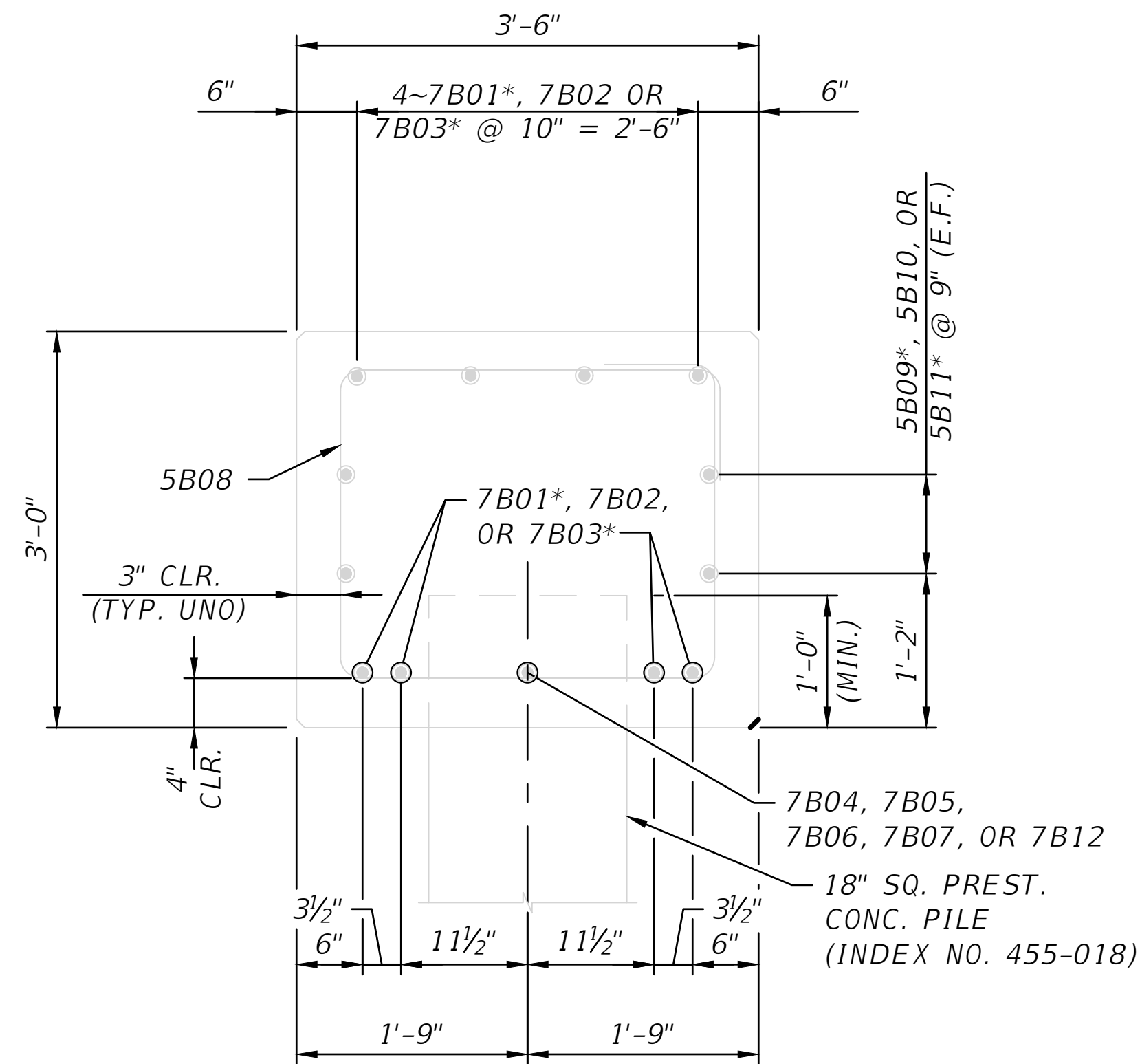
BRIDGE NO. 874650



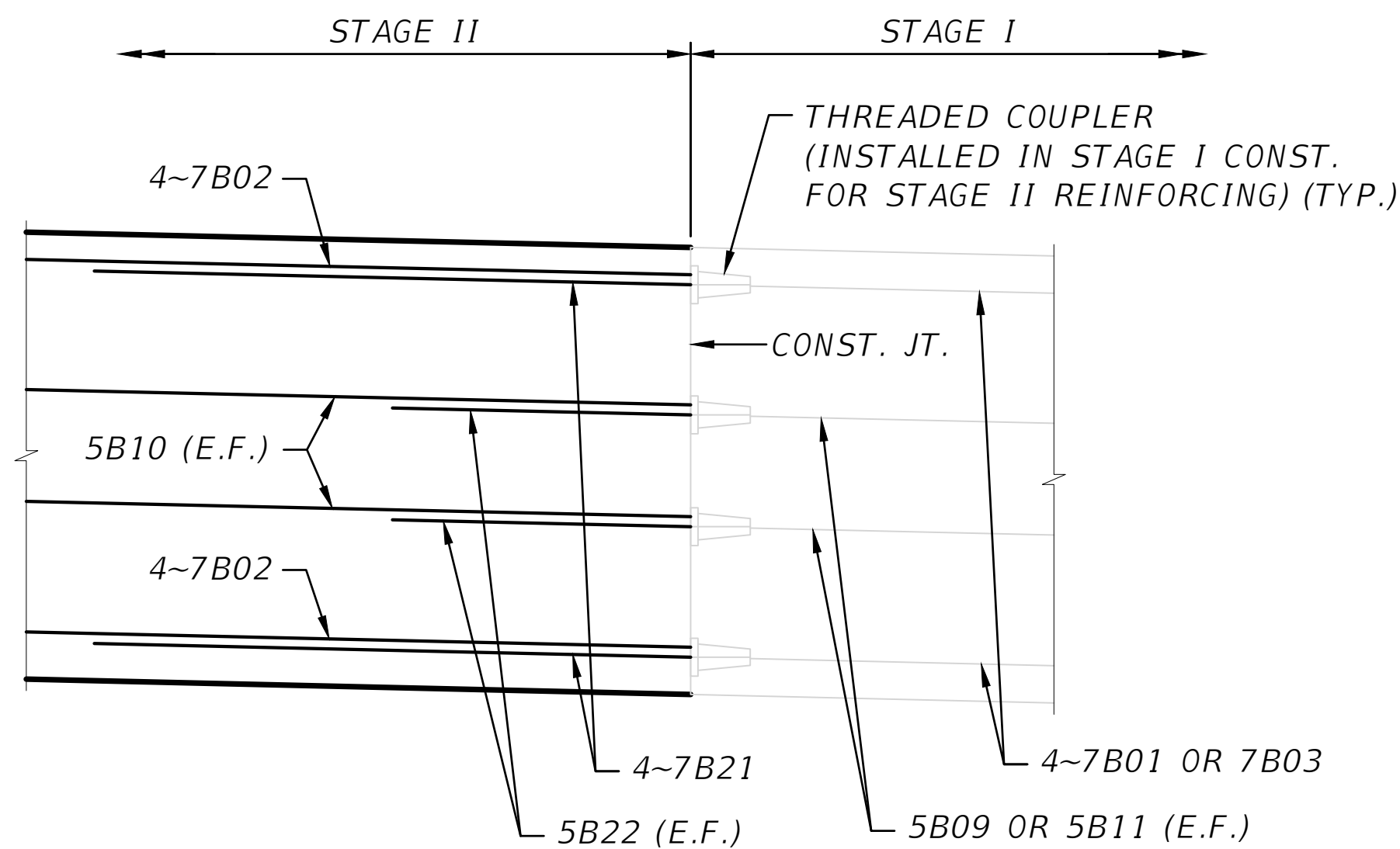
**SECTION A-A**



**SECTION B-B**



**SECTION C-C**



**DETAIL 1**

**NOTES:**

- FOR LOCATIONS OF SECTION A-A, SECTION B-B, SECTION C-C, AND DETAIL 1, SEE SHEET B1-9.
- FOR LOCATIONS OF DETAIL 1, SEE SHEET B1-7 AND B1-9.

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

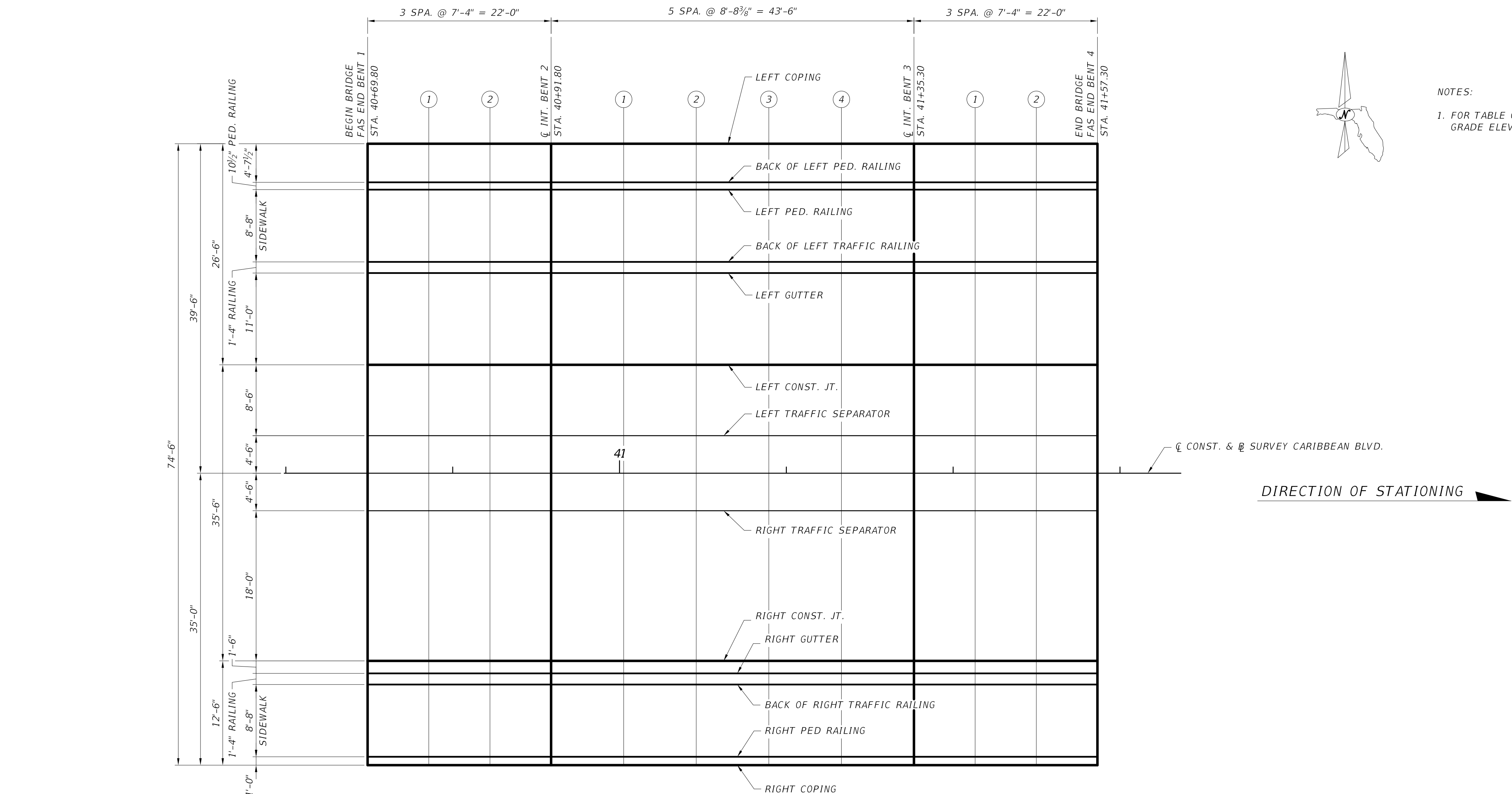
NAME	DATE	NAME	DATE
DESIGNED BY BKR	09/2019	DRAWN BY CMH	09/2019
CHECKED BY RM/AJM	09/2019	CHECKED BY SZ	09/2019
SUPERVISED BY: BRETT RAKITA			

MIAMI-DADE  
COUNTY

TRANSPORTATION AND PUBLIC  
WORKS DEPARTMENT  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

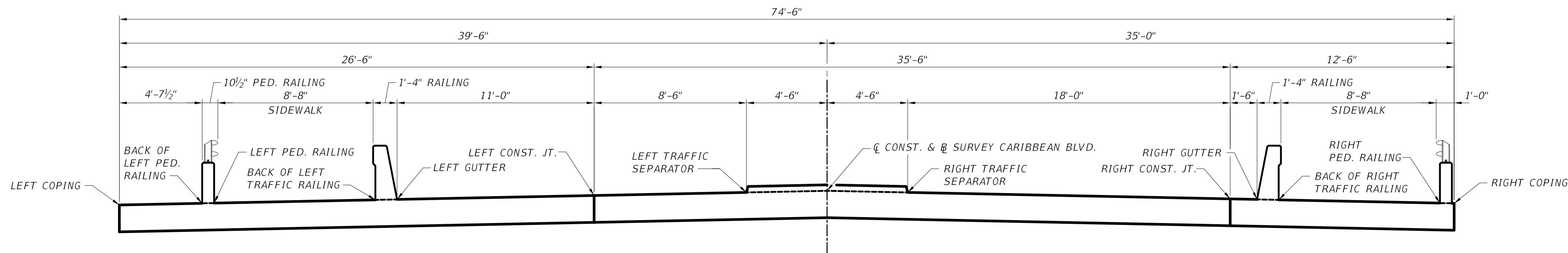
INTERMEDIATE BENT DETAILS
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

BRIDGE NO. 874650



NOTES:  
1. FOR TABLE OF FINISH GRADE ELEVATIONS, SEE FINISH GRADE ELEVATIONS (2 OF 3) SHEET.

PLAN



TYPICAL SECTION

BRIDGE NO. 874650

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BKR	BKR	09/2019	OMM	OMM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

MIAMI-DADE  
COUNTY

TRANSPORTATION AND PUBLIC  
WORKS DEPARTMENT  
STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

FINISH GRADE ELEVATIONS (1 OF 3)

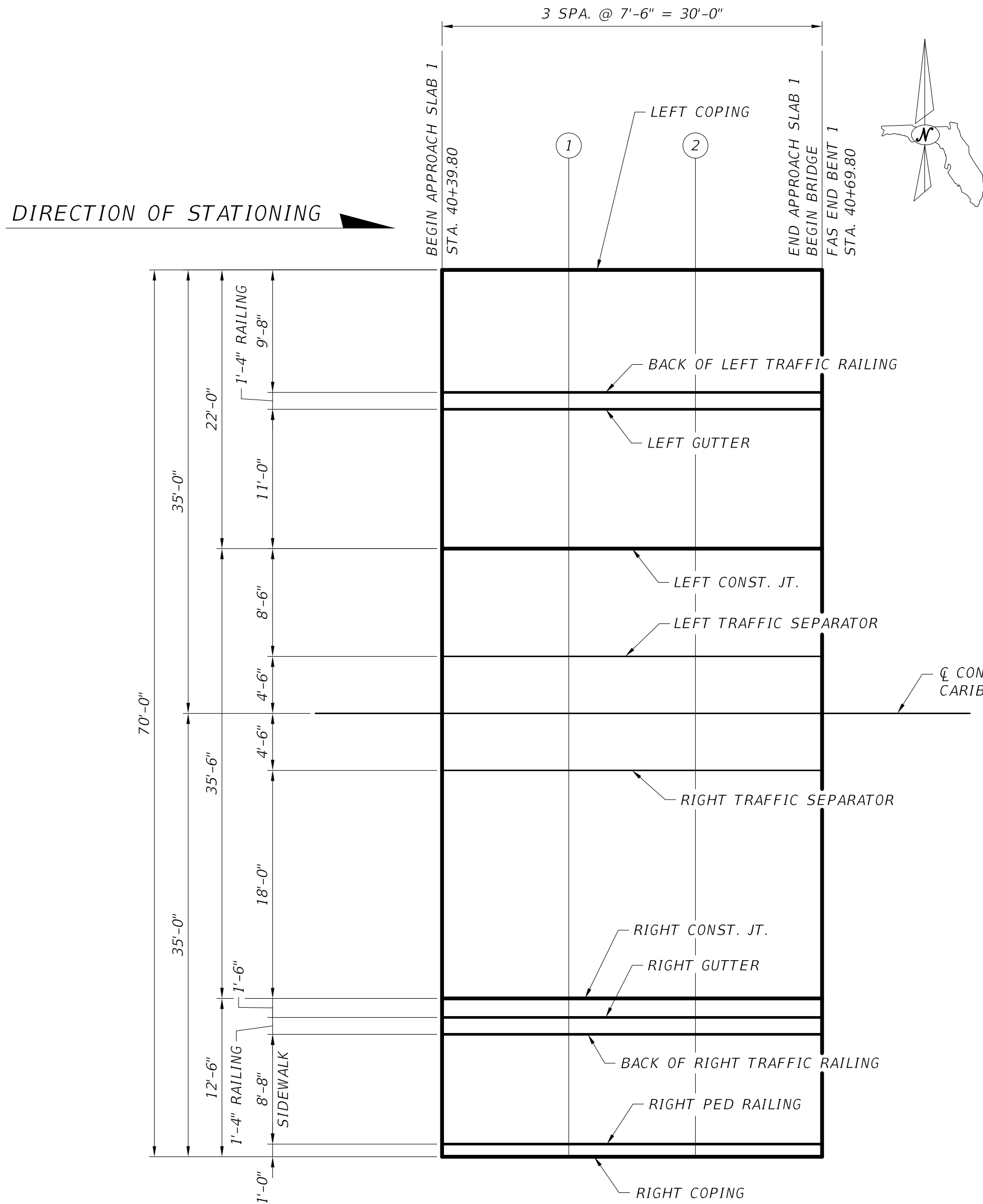
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

\\mido2\Proj\2019 Projects\ECXL2001\700CAD\7020VIL\struct\B1-12 FinishGREL02.dwg, Jan 09, 2020 - 11:51am, CMO34813

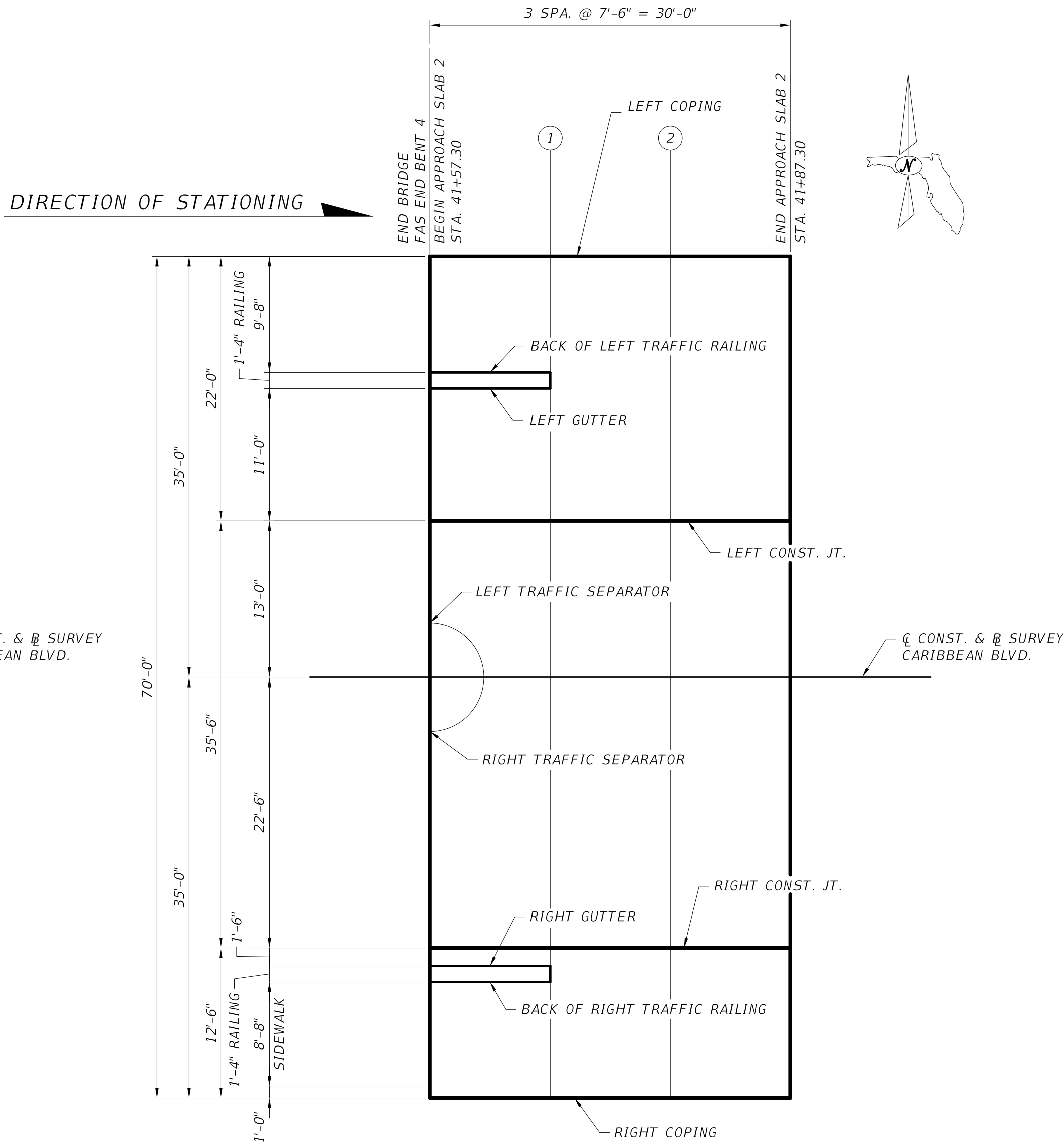
FINISH GRADE ELEVATIONS - BRIDGE												
LOCATION	BEGIN BRIDGE FFBW END BENT 1	1	2	℄ INT. BENT 2	1	2	3	4	℄ INT. BENT 3	1	2	END BRIDGE FAS END BENT 4
LEFT COPING	9.510	9.572	9.623	9.663	9.697	9.716	9.719	9.707	9.680	9.645	9.599	9.543
BACK OF LEFT PED. RAILING	9.603	9.665	9.716	9.756	9.790	9.809	9.812	9.800	9.773	9.738	9.692	9.636
LEFT PED. RAILING	9.620	9.682	9.733	9.773	9.807	9.826	9.829	9.817	9.790	9.755	9.709	9.653
BACK OF LEFT TRAFFIC RAILING	9.793	9.855	9.906	9.946	9.980	9.999	10.002	9.990	9.963	9.928	9.882	9.826
LEFT GUTTER	9.820	9.882	9.933	9.973	10.007	10.026	10.029	10.017	9.990	9.955	9.909	9.853
LEFT CONST. JT.	10.040	10.102	10.153	10.193	10.227	10.246	10.249	10.237	10.210	10.175	10.129	10.073
LEFT TRAFFIC SEPARATOR	10.210	10.272	10.323	10.363	10.397	10.416	10.419	10.407	10.380	10.345	10.299	10.243
℄ CONST. & ℄ SURVEY CARIBBEAN BLVD.	10.300	10.362	10.413	10.453	10.487	10.506	10.509	10.497	10.470	10.435	10.389	10.333
RIGHT TRAFFIC SEPARATOR	10.210	10.272	10.323	10.363	10.397	10.416	10.419	10.407	10.380	10.345	10.299	10.243
RIGHT CONST. JT.	9.850	9.912	9.963	10.003	10.037	10.056	10.059	10.047	10.020	9.985	9.939	9.883
RIGHT GUTTER	9.820	9.882	9.933	9.973	10.007	10.026	10.029	10.017	9.990	9.955	9.909	9.853
BACK OF RIGHT TRAFFIC RAILING	9.793	9.855	9.906	9.946	9.980	9.999	10.002	9.990	9.963	9.928	9.882	9.826
RIGHT PED. RAILING	9.620	9.682	9.733	9.773	9.807	9.826	9.829	9.817	9.790	9.755	9.709	9.653
RIGHT COPING	9.600	9.662	9.713	9.753	9.787	9.806	9.809	9.797	9.770	9.735	9.689	9.633

BRIDGE NO. 874650

REVISIONS										Jacobs Engineering Group, Inc. 3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146 Tel. (305) 392-5193 CERTIFICATE OF AUTHORIZATION NO. 2822 ENGINEER OF RECORD: BRETT K. RAKITA P.E. NO. 59474	<table><tr><td></td><td>NAME</td><td>DATE</td><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY</td><td>BKR</td><td>09/2019</td><td>DRAWN BY</td><td>OMM</td><td>09/2019</td></tr><tr><td>CHECKED BY</td><td>RM/AJM</td><td>09/2019</td><td>CHECKED BY</td><td>SZ</td><td>09/2019</td></tr><tr><td colspan="6">SUPERVISED BY: BRETT RAKITA</td></tr></table>					NAME	DATE		NAME	DATE	DESIGNED BY	BKR	09/2019	DRAWN BY	OMM	09/2019	CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019	SUPERVISED BY: BRETT RAKITA						<div><div>MIAMI-DADE</div><div>COUNTY</div></div> <div>TRANSPORTATION AND PUBLIC WORKS DEPARTMENT</div> <div>STEPHEN P. CLARK, CENTER 111 NW 1 ST MIAMI, FL 33128</div>	FINISH GRADE ELEVATIONS (2 OF 3)	
	NAME	DATE		NAME	DATE																																				
DESIGNED BY	BKR	09/2019	DRAWN BY	OMM	09/2019																																				
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019																																				
SUPERVISED BY: BRETT RAKITA																																									
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL																																



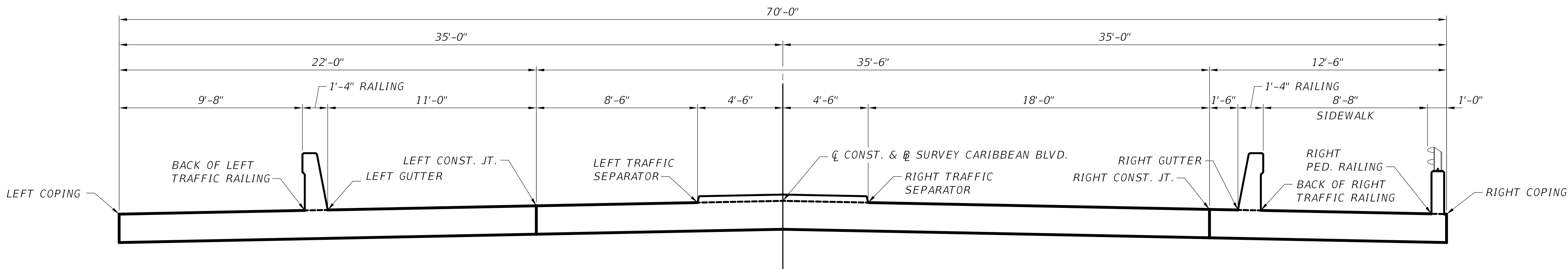
PLAN - APPROACH SLAB 1



PLAN - APPROACH SLAB 2

FINISH GRADE ELEVATIONS - APPROACH SLAB 1				
LOCATION	BEGIN APPROACH SLAB 1	1	2	BEGIN BRIDGE FAS END BENT 1
LEFT COPING	9.234	9.376	9.498	9.600
BACK OF LEFT TRAFFIC RAILING	9.427	9.569	9.691	9.793
LEFT GUTTER	9.454	9.596	9.718	9.820
LEFT CONST. JT.	9.674	9.816	9.938	10.040
LEFT TRAFFIC SEPARATOR	9.844	9.986	10.108	10.210
CL CONST. & R SURVEY CARIBBEAN BLVD.	9.934	10.076	10.198	10.300
RIGHT TRAFFIC SEPARATOR	9.844	9.986	10.108	10.210
RIGHT CONST. JT.	9.484	9.626	9.748	9.850
RIGHT GUTTER	9.454	9.596	9.718	9.820
BACK OF RIGHT TRAFFIC RAILING	9.427	9.569	9.691	9.793
RIGHT PED. RAILING	9.254	9.396	9.518	9.620
RIGHT COPING	9.234	9.376	9.498	9.600

FINISH GRADE ELEVATIONS - APPROACH SLAB 2				
LOCATION	END BRIDGE FAS END BENT 4	1	2	END APPROACH SLAB 2
LEFT COPING	9.633	9.539	9.424	9.290
BACK OF LEFT TRAFFIC RAILING	9.826	9.732	-	-
LEFT GUTTER	9.853	9.759	-	-
LEFT CONST. JT.	10.073	9.979	9.864	9.730
LEFT TRAFFIC SEPARATOR	10.243	-	-	-
CL CONST. & R SURVEY CARIBBEAN BLVD.	10.333	10.239	10.124	9.990
RIGHT TRAFFIC SEPARATOR	10.243	-	-	-
RIGHT CONST. JT.	9.883	9.789	9.674	9.540
RIGHT GUTTER	9.853	9.759	-	-
BACK OF RIGHT TRAFFIC RAILING	9.826	9.732	-	-
RIGHT COPING	9.633	9.539	9.424	9.290



TYPICAL SECTION - APPROACH SLABS

BRIDGE NO. 874650

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BKR	BKR	09/2019	CM	CM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

TRANSPORTATION AND PUBLIC WORKS DEPARTMENT	
MIAMI-DADE COUNTY	STEPHEN P. CLARK, CENTER 111 NW 1 ST MIAMI, FL 33128

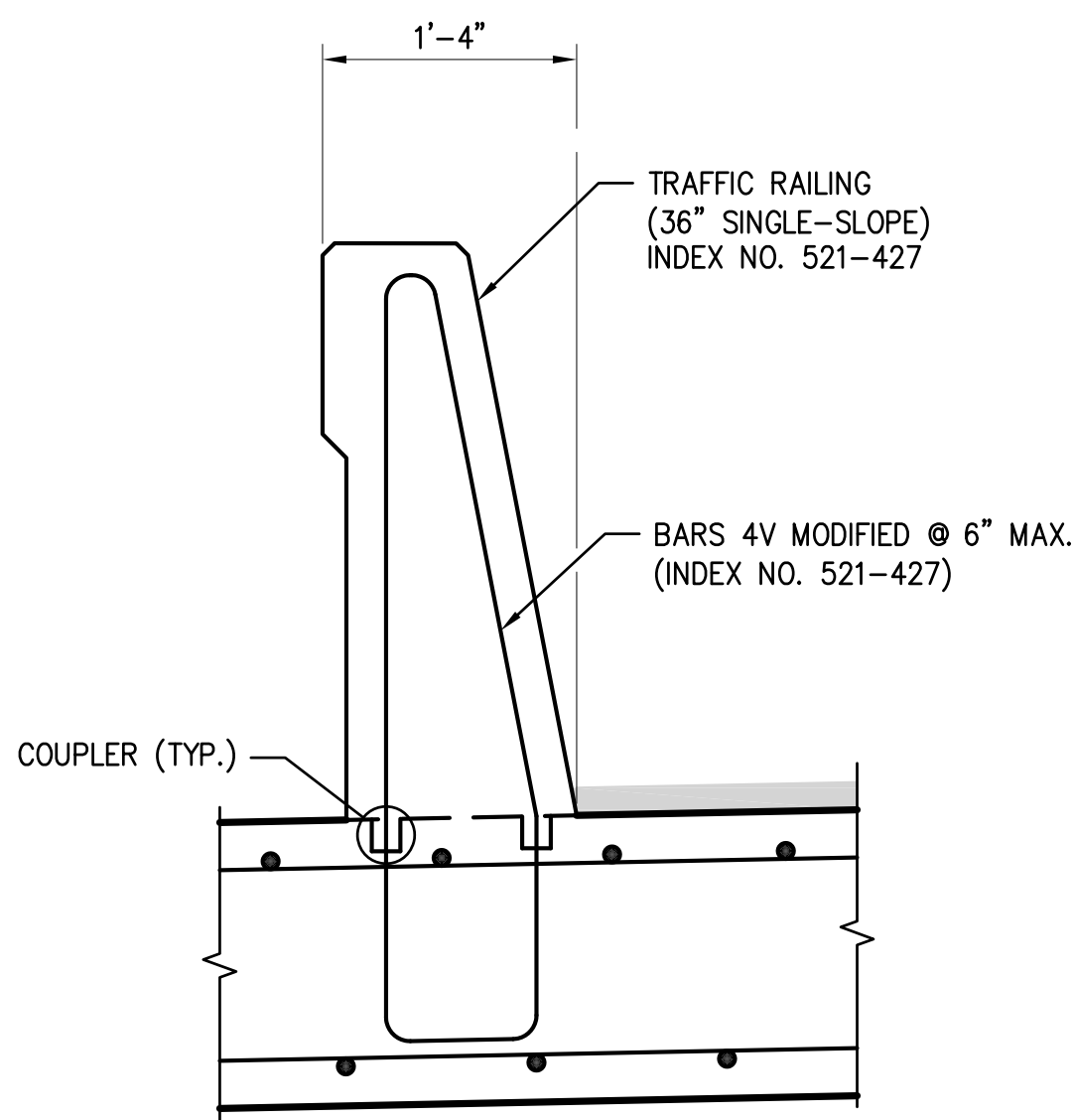
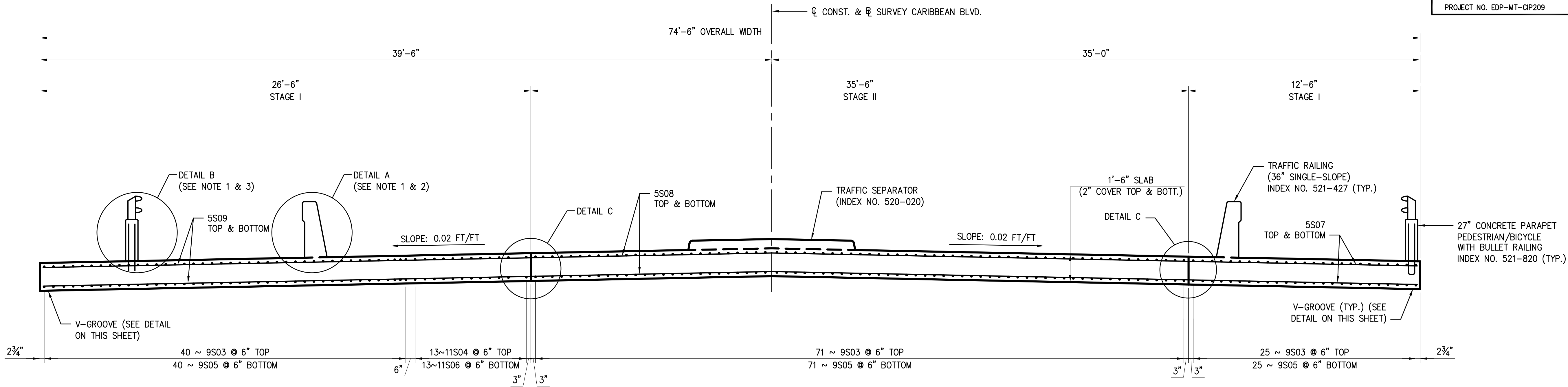
FINISH GRADE ELEVATIONS (3 OF 3)	
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL	



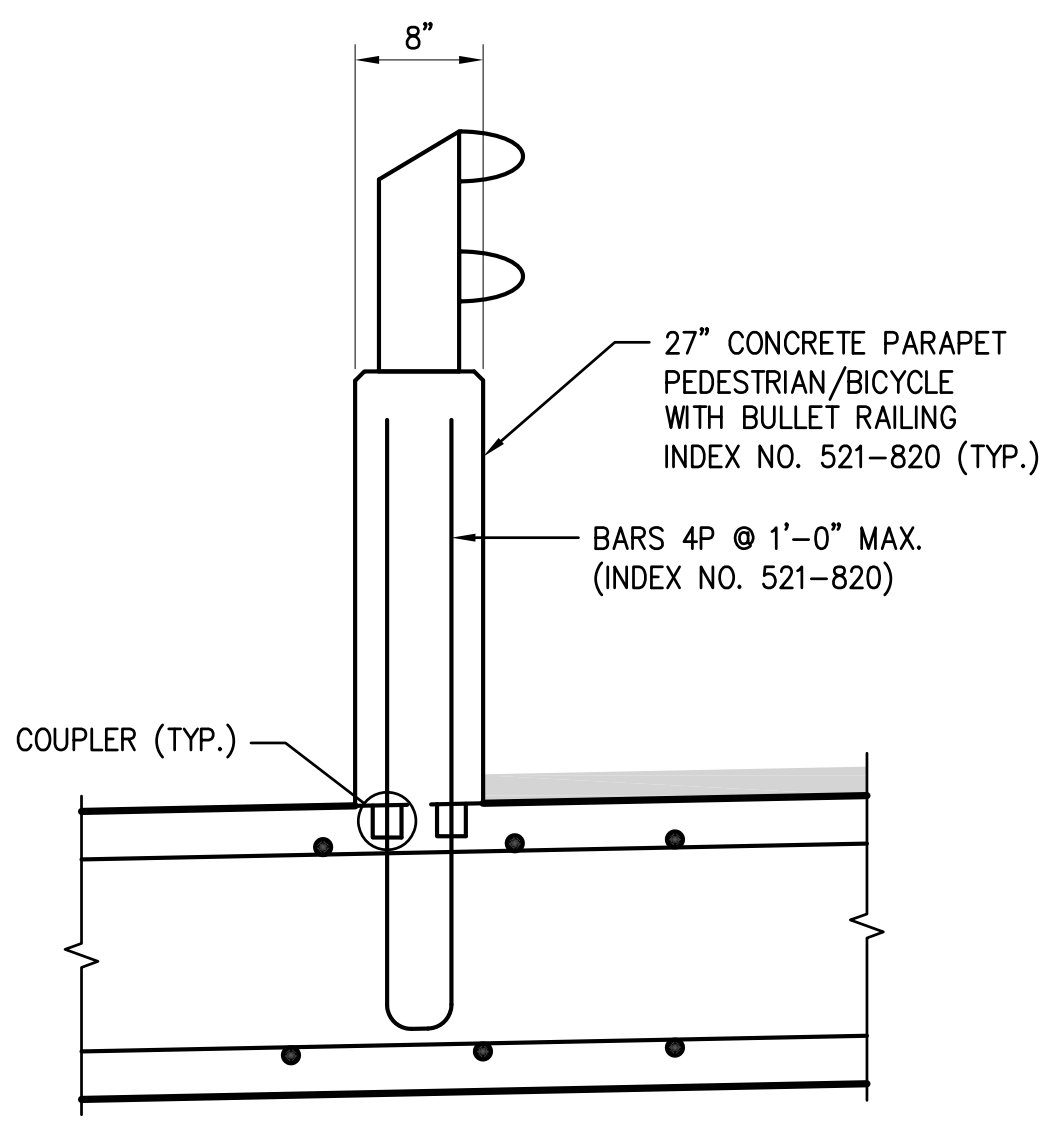
BRIDGE NO. 874650

R E V I S I O N S									<div>Jacobs Engineering Group, Inc. 3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146 Tel. (305) 392-5193 CERTIFICATE OF AUTHORIZATION NO. 2822 ENGINEER OF RECORD: BRETT K. RAKITA P.E. NO. 59474</div>	<table><tr><td></td><td>NAME</td><td>DATE</td><td></td><td>NAME</td><td>DATE</td></tr><tr><td>DESIGNED BY</td><td>BKR</td><td>09/2019</td><td>DRAWN BY</td><td>CMM</td><td>09/2019</td></tr><tr><td>CHECKED BY</td><td>RM/AJM</td><td>09/2019</td><td>CHECKED BY</td><td>SZ</td><td>09/2019</td></tr></table>					NAME	DATE		NAME	DATE	DESIGNED BY	BKR	09/2019	DRAWN BY	CMM	09/2019	CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019	<div><div>MIAMI-DADE COUNTY</div><div>TRANSPORTATION AND PUBLIC WORKS DEPARTMENT</div><div>STEPHEN P. CLARK CENTER 111 NW 1 ST MIAMI, FL 33128</div></div>	SUPERSTRUCTURE PLAN
	NAME	DATE		NAME	DATE																												
DESIGNED BY	BKR	09/2019	DRAWN BY	CMM	09/2019																												
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019																												
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL																							

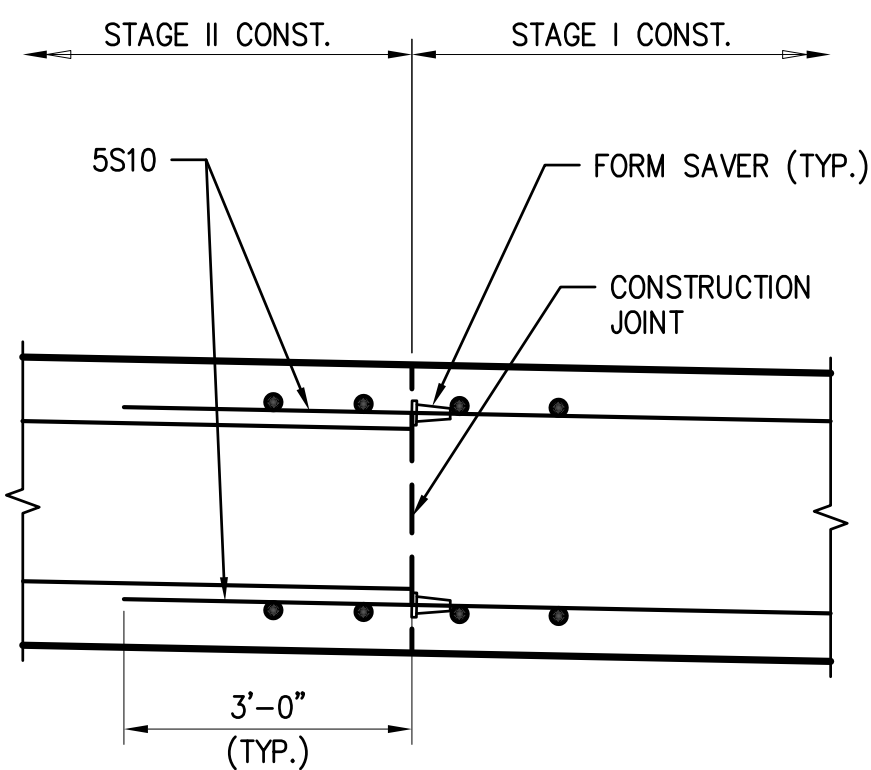
\\mch02\Proj\2019 Projects\Excl2001\700CAD\07020VIL\struct\B1-15 SuperSdet01.dwg Jan 09, 2020 - 11:53am CM034813



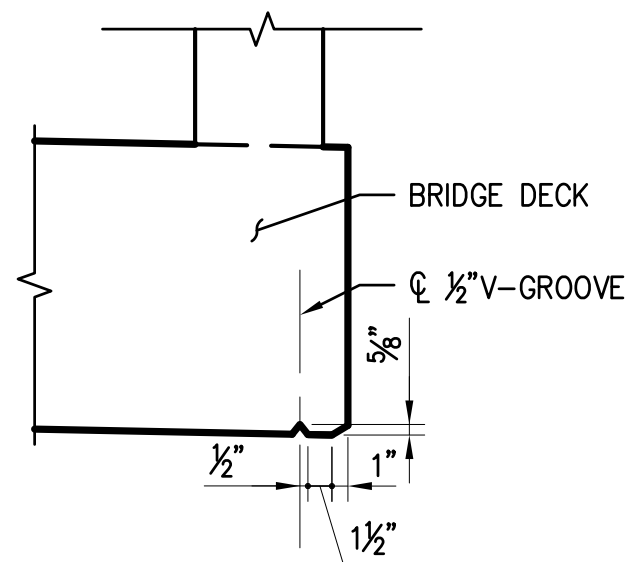
DETAIL A



DETAIL B



DETAIL C



TYPICAL V-GROOVE DETAIL  
REINFORCING NOT SHOWN FOR CLARITY

- NOTES:
- TRAFFIC RAILING AND PEDESTRIAN RAILING SHOWN IN DETAIL A AND B RESPECTIVELY, SHALL BE INSTALLED IN CONSTRUCTION STAGE II; THEREFORE BARS 5V AND 4P SHALL BE MODIFIED TO ACCOMMODATE CONSTRUCTION SEQUENCE.
  - TRAFFIC RAILING SHALL BE PER FDOT STANDARD PLANS INDEX 521-427. BARS 5V SHALL BE MODIFIED AS SHOWN IN DETAIL A. BARS 4V AND 4P SHALL BE EPOXY-DOWELLED IN STAGE II CONSTRUCTION.
  - PEDESTRIAN RAILING SHALL BE PER FDOT STANDARD PLANS INDEX 521-820. BARS 4P SHALL BE MODIFIED AS SHOWN IN DETAIL B. BARS 4P1 SHALL BE EPOXY-DOWELLED IN CONSTRUCTION STAGE II PER FDOT APL.
  - CONTRACTOR SHALL AVOID DAMAGING THE SLAB REINFORCING WHEN DRILLING FOR BARS 5V AND 4P.
  - FOR BARS 5V AND 4P, SEE FDOT STANDARD PLANS INDEX NO. 521-820.
  - THE COST OF EPOXY DOWELS FOR BARS 5V AND 4P SHALL BE INCIDENTAL TO PAY ITEM NO. 521-6-11, CONCRETE TRAFFIC RAILING AND 521-5-13, TRAFFIC RAILING BARRIER, RESPECTIVELY.

BRIDGE NO. 874650

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

	NAME	DATE		NAME	DATE
DESIGNED BY	BKR	09/2019	DRAWN BY	OMM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

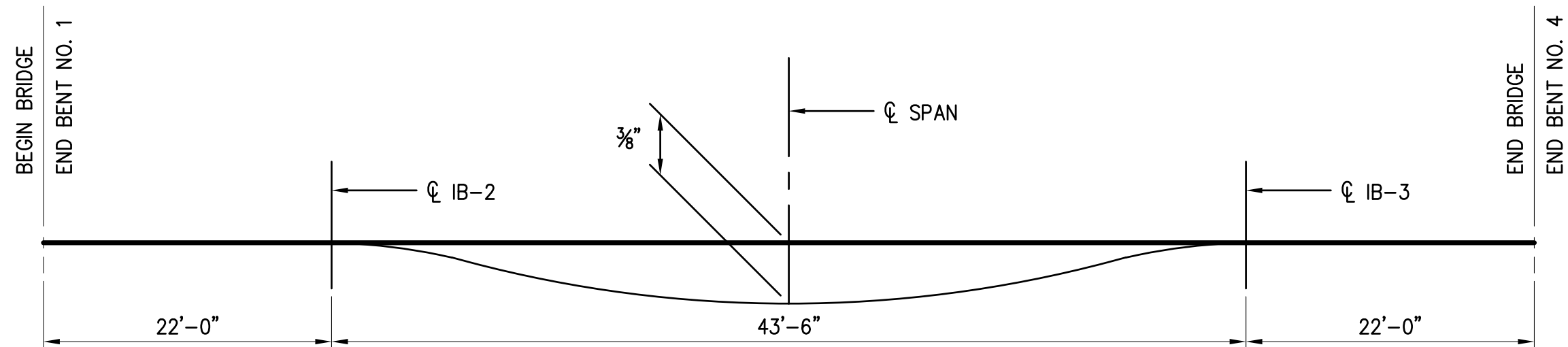
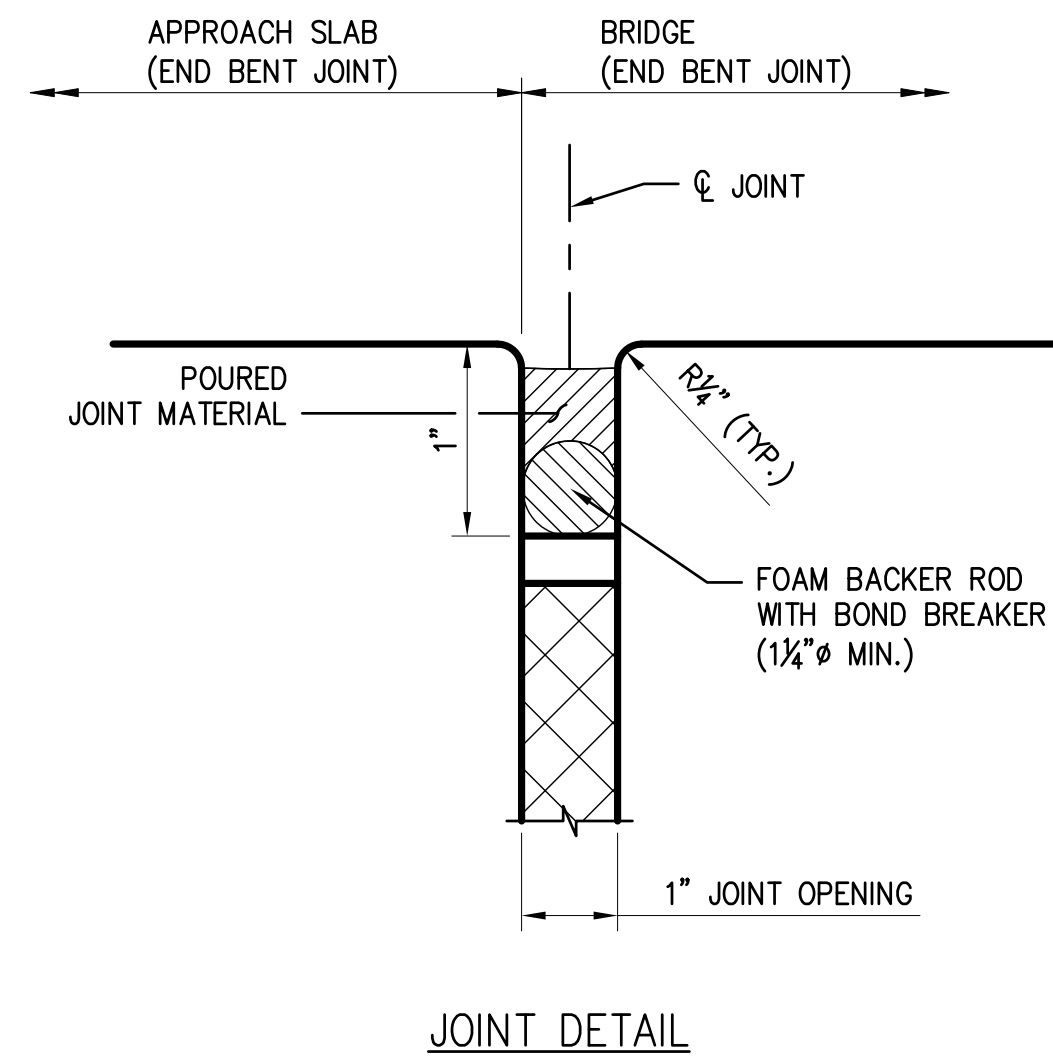
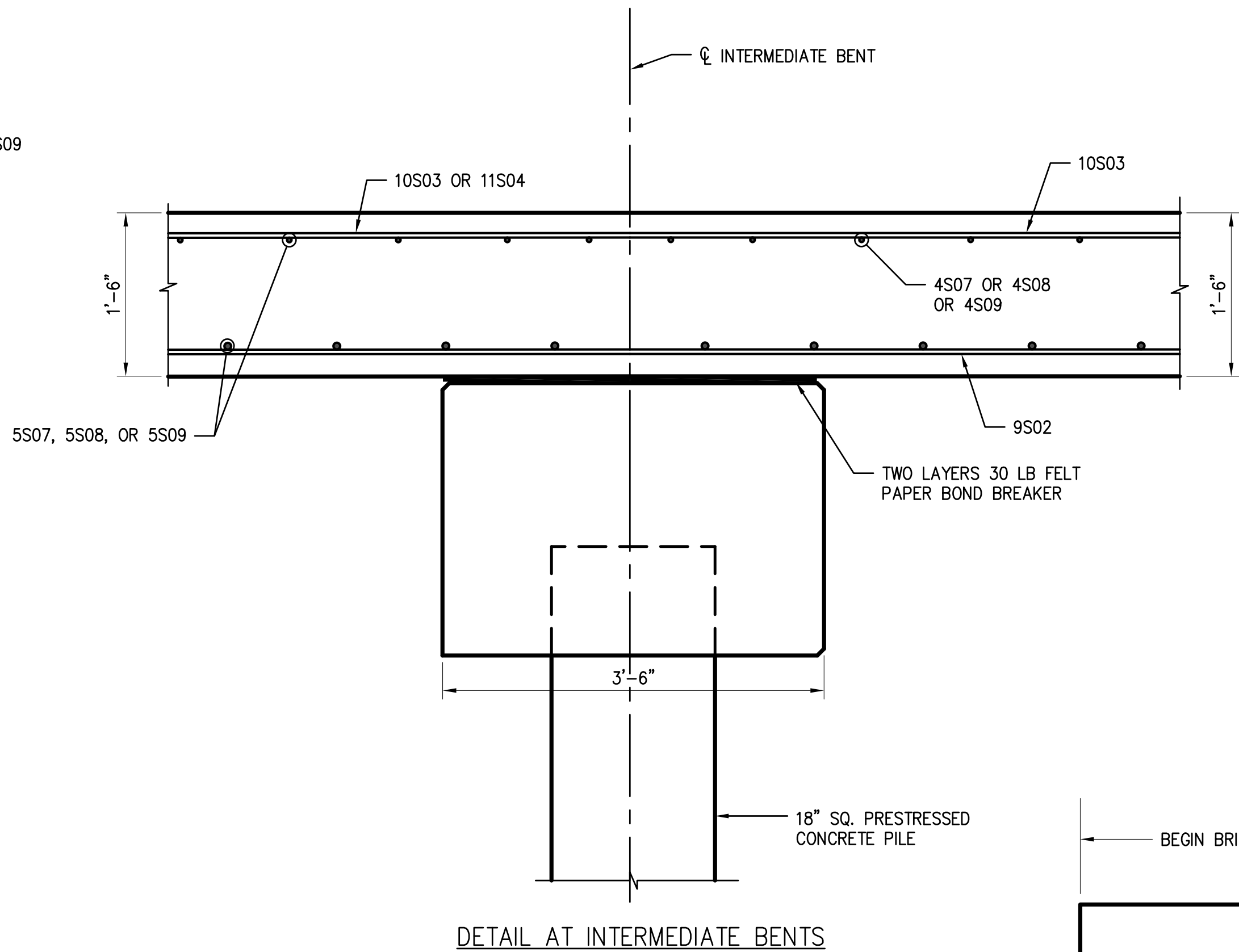
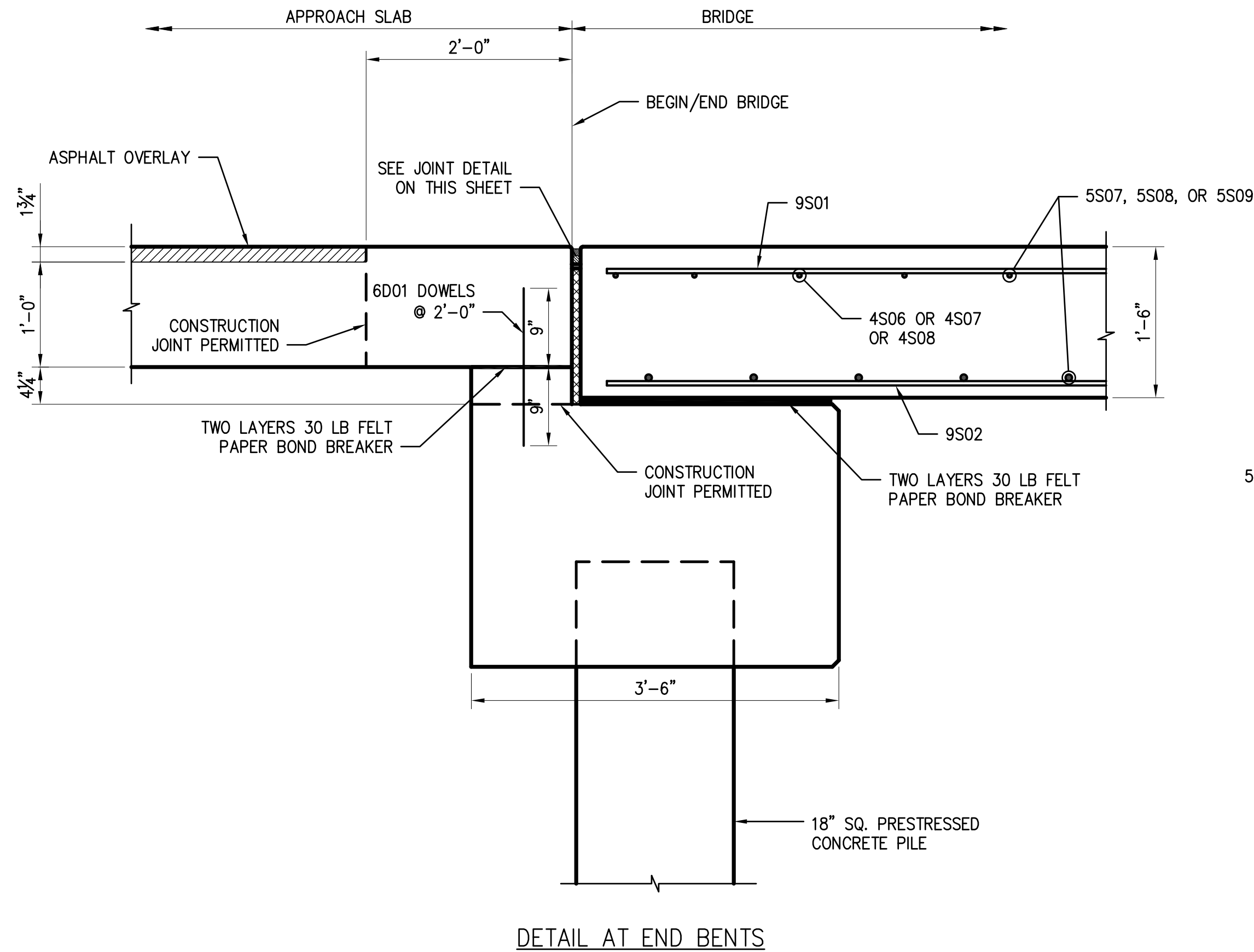
**MIAMI-DADE COUNTY**

**TRANSPORTATION AND PUBLIC WORKS DEPARTMENT**

STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

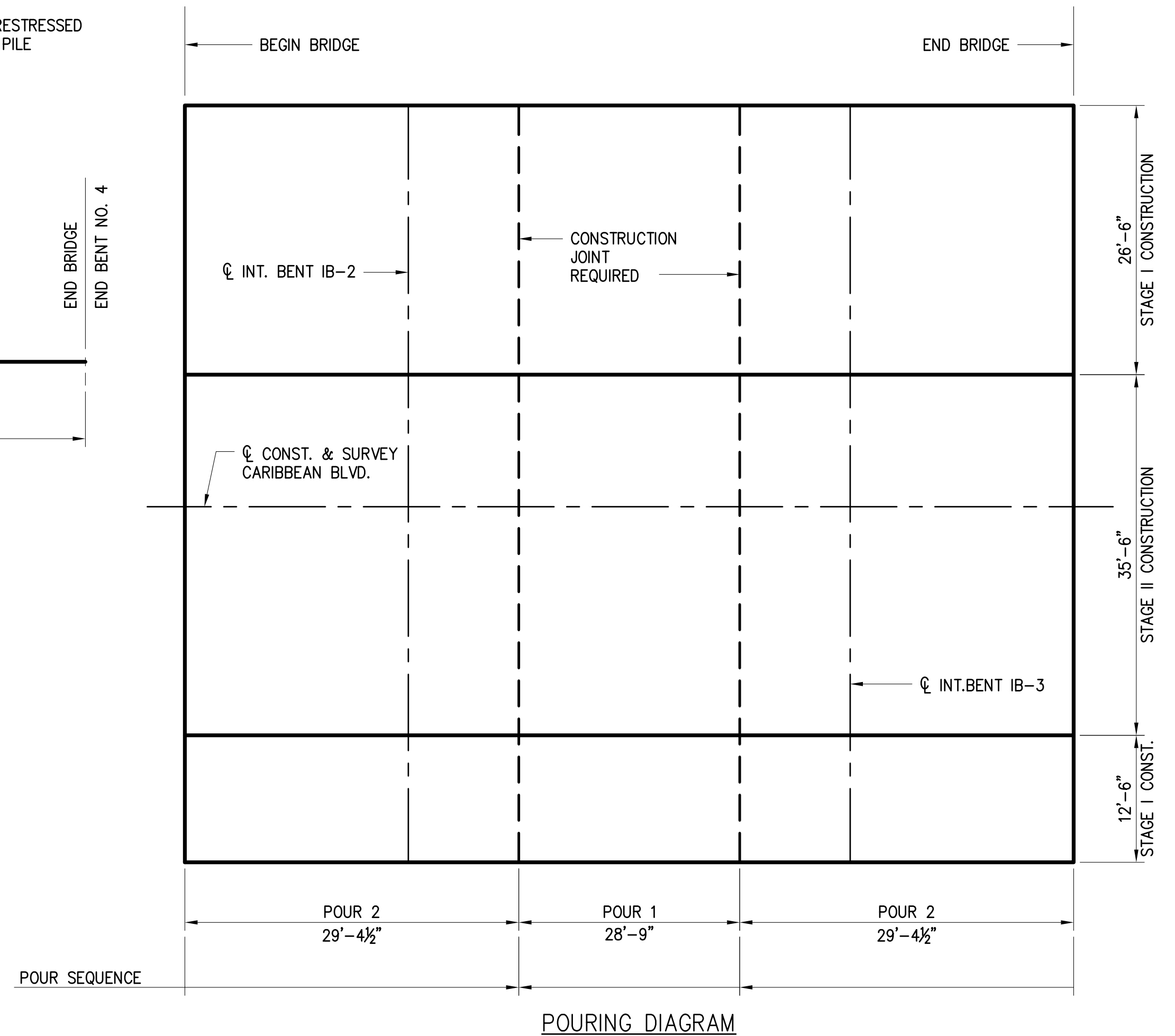
SUPERSTRUCTURE DETAILS (1 OF 2)
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL





NOTE : THE CONTRACTOR SHALL CAMBER THE FORMS TO COMPENSATE FOR THE COMBINED EFFECT OF THE DEFLECTION OF FORMS AND THE LONG-TERM DEAD LOAD DEFLECTION OF THE SLAB.

ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
CLASS II (BRIDGE DECK) CONCRETE (SUPERSTRUCTURE)	CY	362.2
REINFORCING STEEL (SUPERSTRUCTURE)	LB	70,369
CONCRETE TRAFFIC RAILING, BRIDGE (36" SINGLE-SLOPE)	LF	175
CONCRETE PARAPET, PEDEST/BICYCLE	LF	175
ALUMINUM BULLET RAILING, DOUBLE	LF	175



\\mch02\Proj\2019 Projects\Excl2001\700CADD\702CIVIL\struct\B1-16 SuperStDet02.dwg Jan 09, 2020 - 11:54am CM034813

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

DESIGNED BY	NAME	DATE	DRAWN BY	NAME	DATE
BKR	BKR	09/2019	CM	CM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

MIAMI-DADE COUNTY

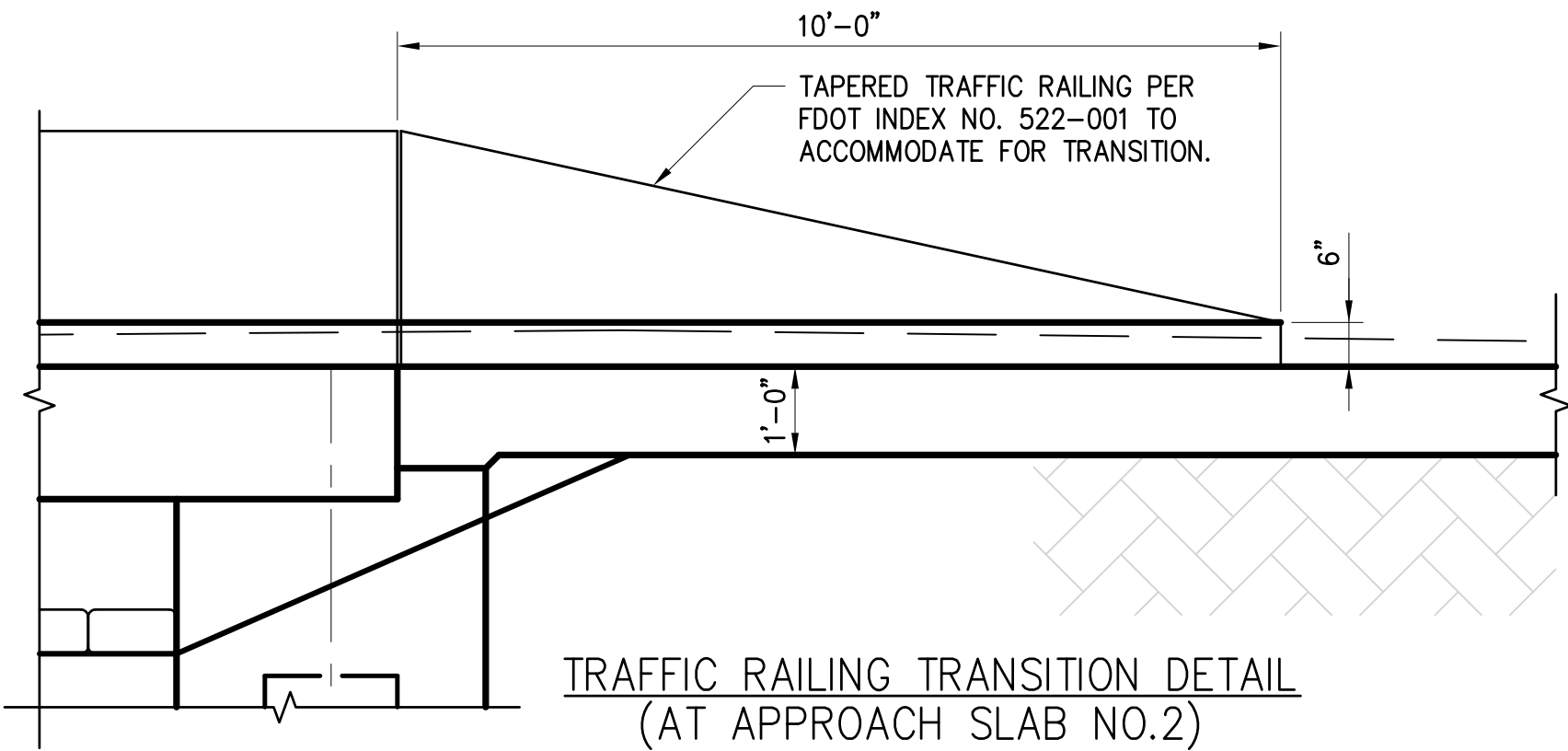
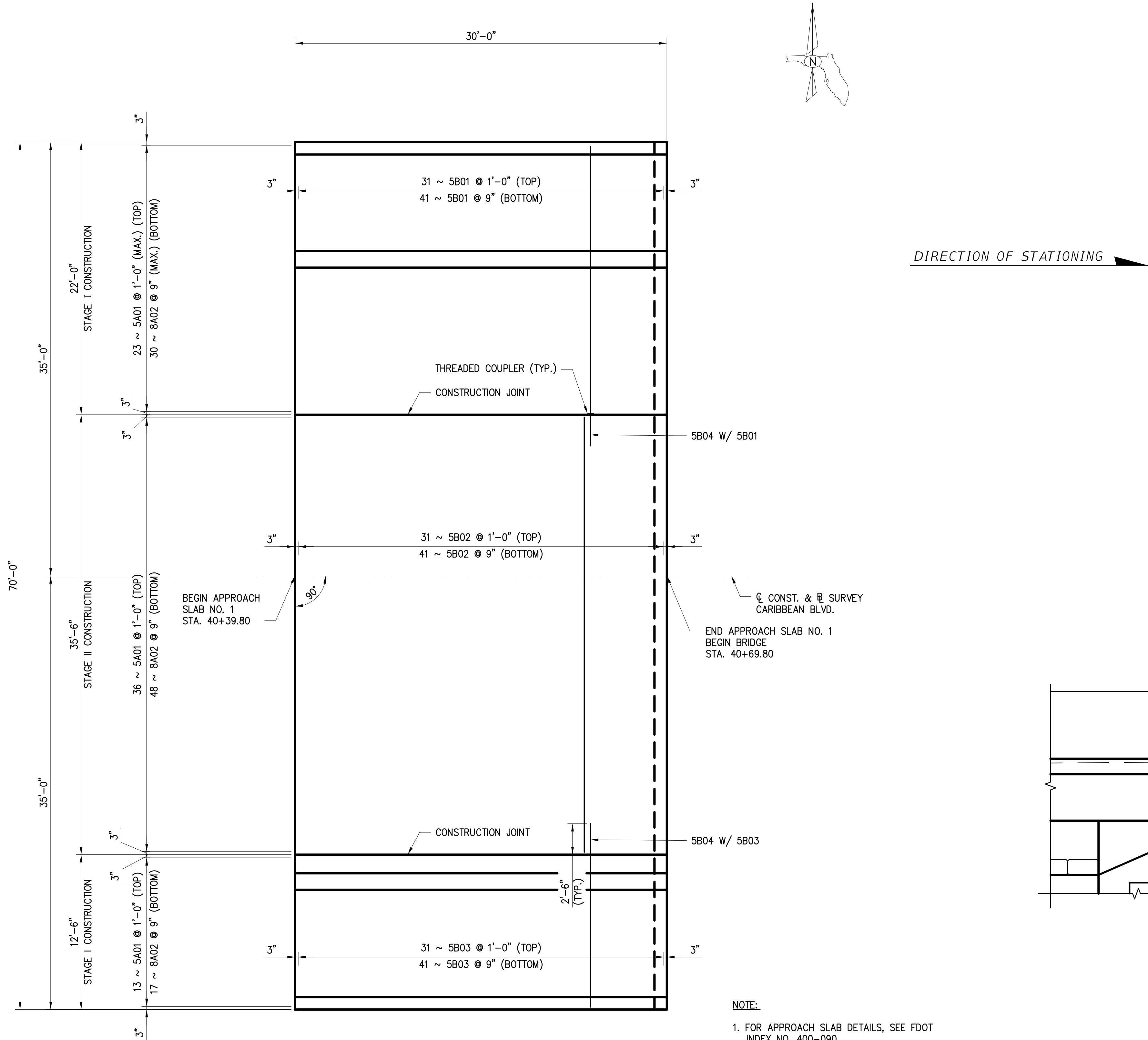
TRANSPORTATION AND PUBLIC WORKS DEPARTMENT

STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

SUPERSTRUCTURE DETAILS (2 OF 2)	
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL	

BRIDGE NO. 874650





ESTIMATED QUANTITIES		
ITEM	UNIT	QUANTITY
CLASS II (BRIDGE DECK) CONCRETE (APPROACH SLAB)	CY	160.4
REINFORCING STEEL (MISCELLANEOUS)	LB	30,593
CONCRETE TRAFFIC RAILING, BRIDGE (36" SINGLE SLOPE)	LF	80
CONCRETE PARAPET, PEDEST/BICYCLE	LF	60
ALUMINUM BULLET RAILING, DOUBLE	LF	60

- NOTE:
- FOR APPROACH SLAB DETAILS, SEE FDOT INDEX NO. 400-090.
  - FOR TRAFFIC RAILING LOCATION ON APPROACH SLAB 2, SEE SHEET B1-2.
  - CONTRACTOR SHALL ADJUST TRAFFIC RAILING TRANSITION REINFORCING TO ACCOMMODATE TAPER.

PLAN  
APPROACH SLAB NO. 1 SHOWN, APPROACH SLAB NO. 2 SIMILAR

REVISIONS							
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY

Jacobs Engineering Group, Inc.  
3150 SW 38TH AVE, SUITE 700, MIAMI, FL 33146  
Tel. (305) 392-5193  
CERTIFICATE OF AUTHORIZATION NO. 2822  
ENGINEER OF RECORD:  
BRETT K. RAKITA P.E. NO. 59474

	NAME	DATE		NAME	DATE
DESIGNED BY	BKR	09/2019	DRAWN BY	OMM	09/2019
CHECKED BY	RM/AJM	09/2019	CHECKED BY	SZ	09/2019
SUPERVISED BY: BRETT RAKITA					

MIAMI-DADE  
COUNTY

TRANSPORTATION AND PUBLIC  
WORKS DEPARTMENT

STEPHEN P. CLARK, CENTER  
111 NW 1 ST  
MIAMI, FL 33128

APPROACH SLAB DETAILS
CARIBBEAN BLVD. BRIDGE OVER C1-N CANAL

BRIDGE NO. 874650



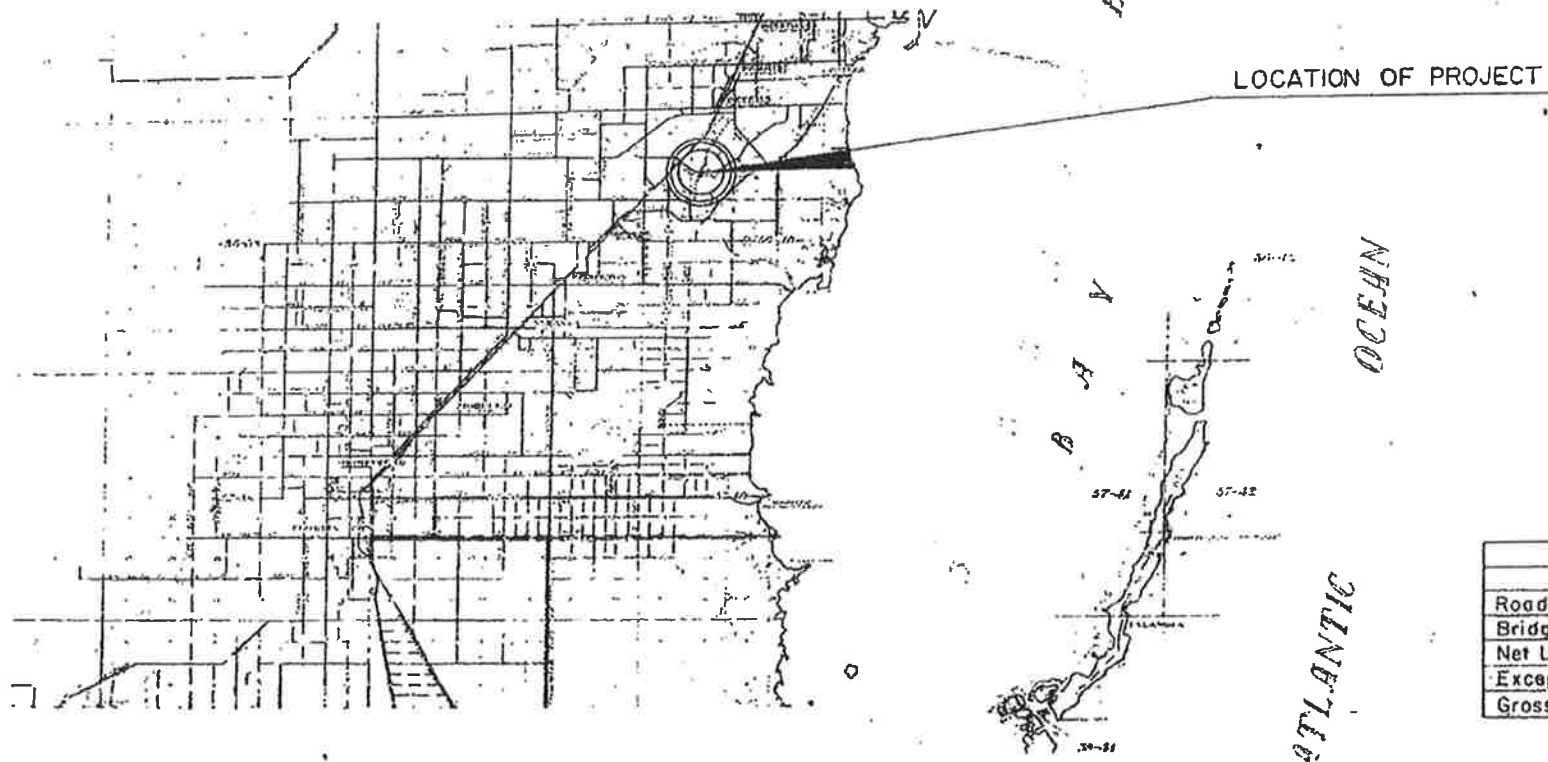
# PLANS FOR PROPOSED CARIBBEAN BLVD. BRIDGE OVER BEL-AIRE CANAL

PROJECT NO. 3205

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	KEY MAP
2.	SUMMARY OF QUANTITIES
3.	PLAN AND PROFILE
4 & 5.	ROADWAY CROSS SECTIONS
6.	APPROACH SLAB
7.	PLAN AND ELEVATION
8.	CONTOUR MAP
9, 10 & 11.	CANAL CROSS SECTIONS
12.	PILING PLAN & DETAILS
13.	END BENT
14.	SUPERSTRUCTURE
15.	PRESTRESSED SLAB UNITS
16.	RETAINING WALLS
17.	HANDRAIL DETAILS

CONVENTIONAL SIGNS	
COUNTY LINE	---
TOWNSHIP LINE	---
SECTION LINE	---
EXISTING ROAD	---
CITY LINE	---
FENCE LINE	---
RIGHT OF WAY LINE	---
BASE OR SURVEY LINE	---
RAILROAD	---
EXISTING CONCRETE	---
MANHOLE	○
FIRE HYDRANT	●
POWER POLE	⊕
TELEPHONE POLE	⊕
POWER & TELEPHONE POLE	⊕
UTILITY VALVE	⊕
UTILITY METER	⊕
CATCH BASIN	⊕



LENGTH OF JOB		
	LIN. FT.	MILES
Roadway	450.00	0.0084
Bridge	29.29	0.0005
Net Length of Job	469.29	0.0089
Exceptions	0.00	0.0000
Gross Length of Job	469.29	0.0089

PREPARED BY  
DADE COUNTY PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

874431

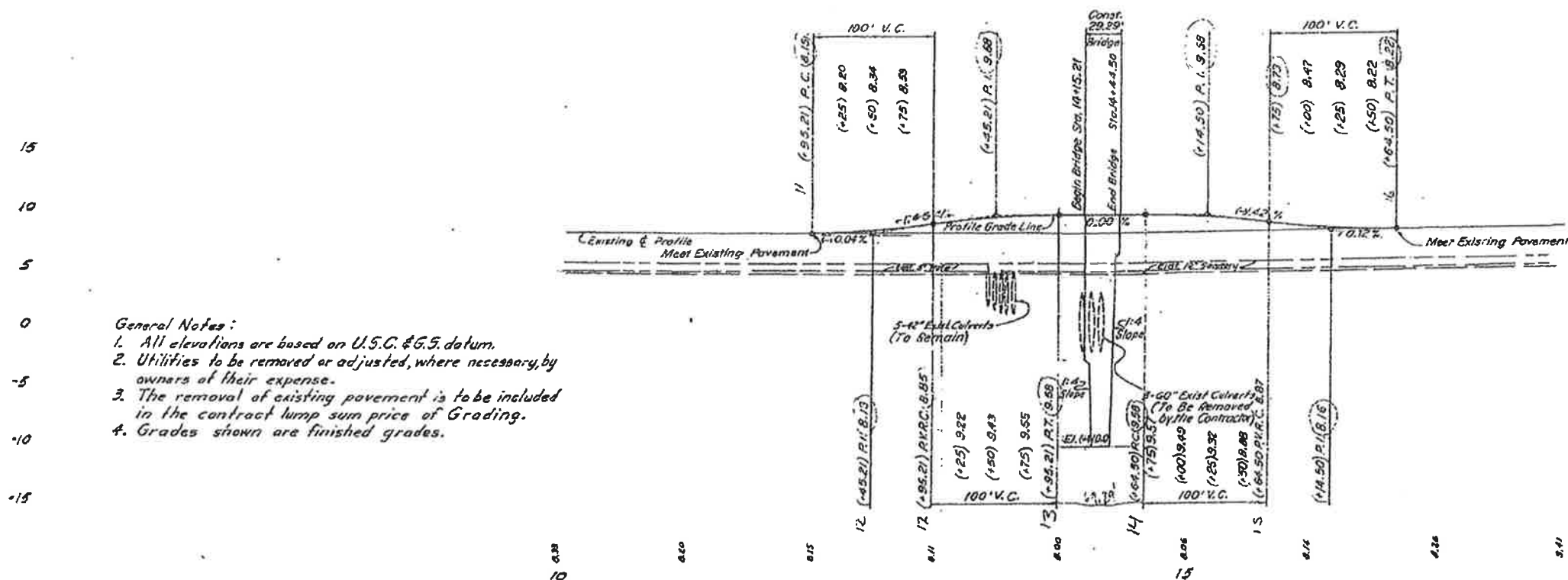
DESIGNED BY	DATE
CHECKED BY	DATE
APPROVED BY	DATE

# SUMMARY OF QUANTITIES

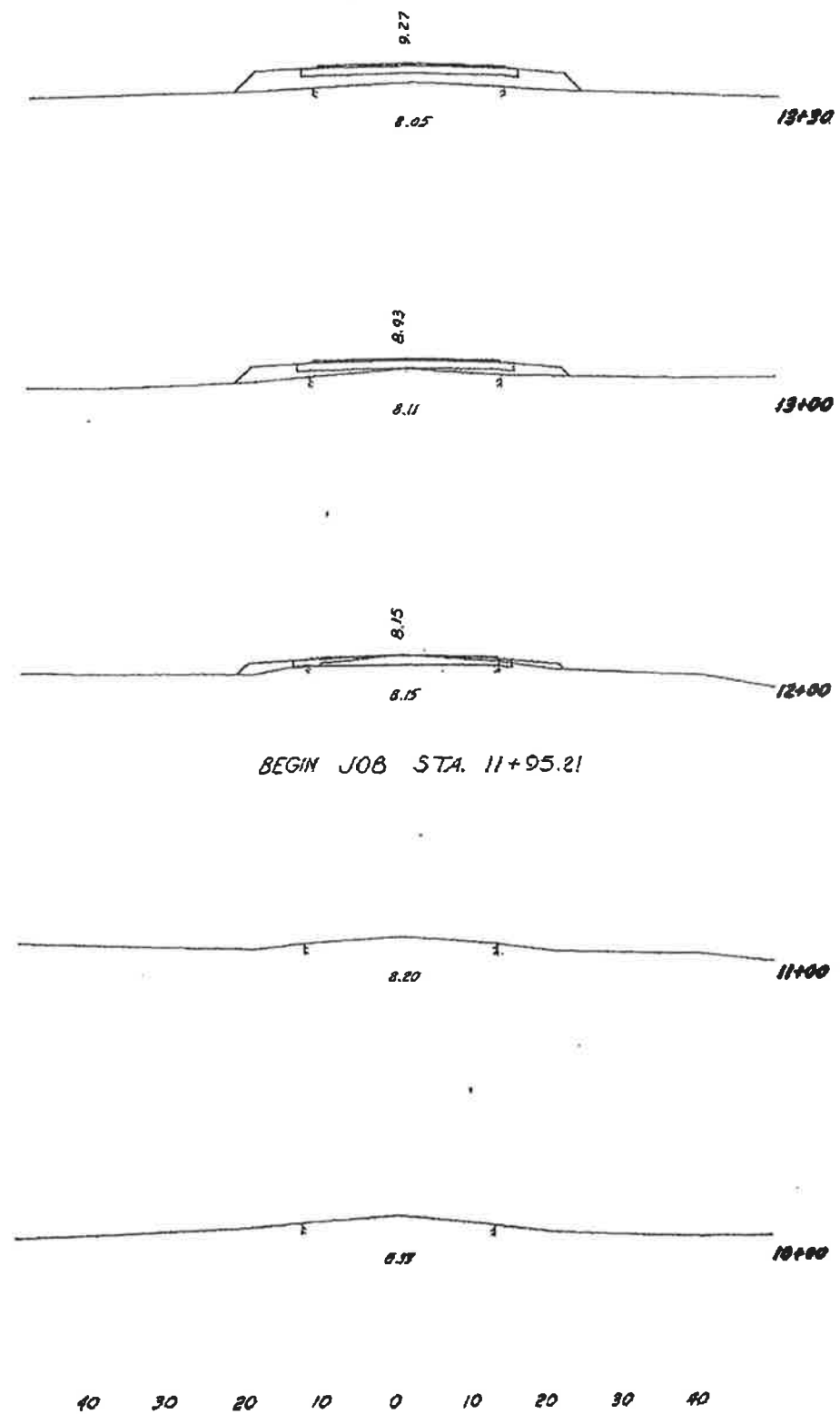
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	TOTAL
50-1	Maintenance of Traffic	L.S.	1		1
57-4	Regular Excavation (Canal Only)	L.S.	1		1
58-5	Grading (Including Borrow)	L.S.	1		1
100-1	Lime/Cash Base (8" Thick, Primed)	S.Y.	1,337		1,337
100-2	Concrete Approach Slab	Sq.	2		2
210-7	Aluminous Surface Treatment Type I-C	S.Y.	1,337		1,337
233-3	Type I Asphaltic Concrete, Surface Course	Ton.	71		71
300-1	Class A Concrete	C.Y.	54.9		54.9
310-1	Reinforcing Steel	Lbs.	6,689		6,689
301-3	Precast Slab Units	S.F.	812		812
403-3	Precast Concrete Piling Furnished (12")	L.F.	542		542
403-4	Precast Concrete Piling Driven (12")	L.F.	542		542
403-9	Unloaded Test Piles (12")	L.F.	42		42
405-10	Test Loads	Ea.	1		1
407-14	Punching	Per Hole	18		18
407-7	Aluminum Handrail	L.F.	58.5		58.5
445-1	Guardrail	L.F.	250		250
460-2	Grassing and Mulching (Including Mulch Material)	S.Y.	2,369		2,369



B.M. No. 1  
D.C.H.G. B.M. "BC-23 Roser"  
Brass Bar Set in Concrete Monument  
67.4' South of E Caribbean Blvd.  
and 19.4' East of E Anchor Rd.  
El. 81.3 Used for Survey and Design  
(Record El. is 80.1)

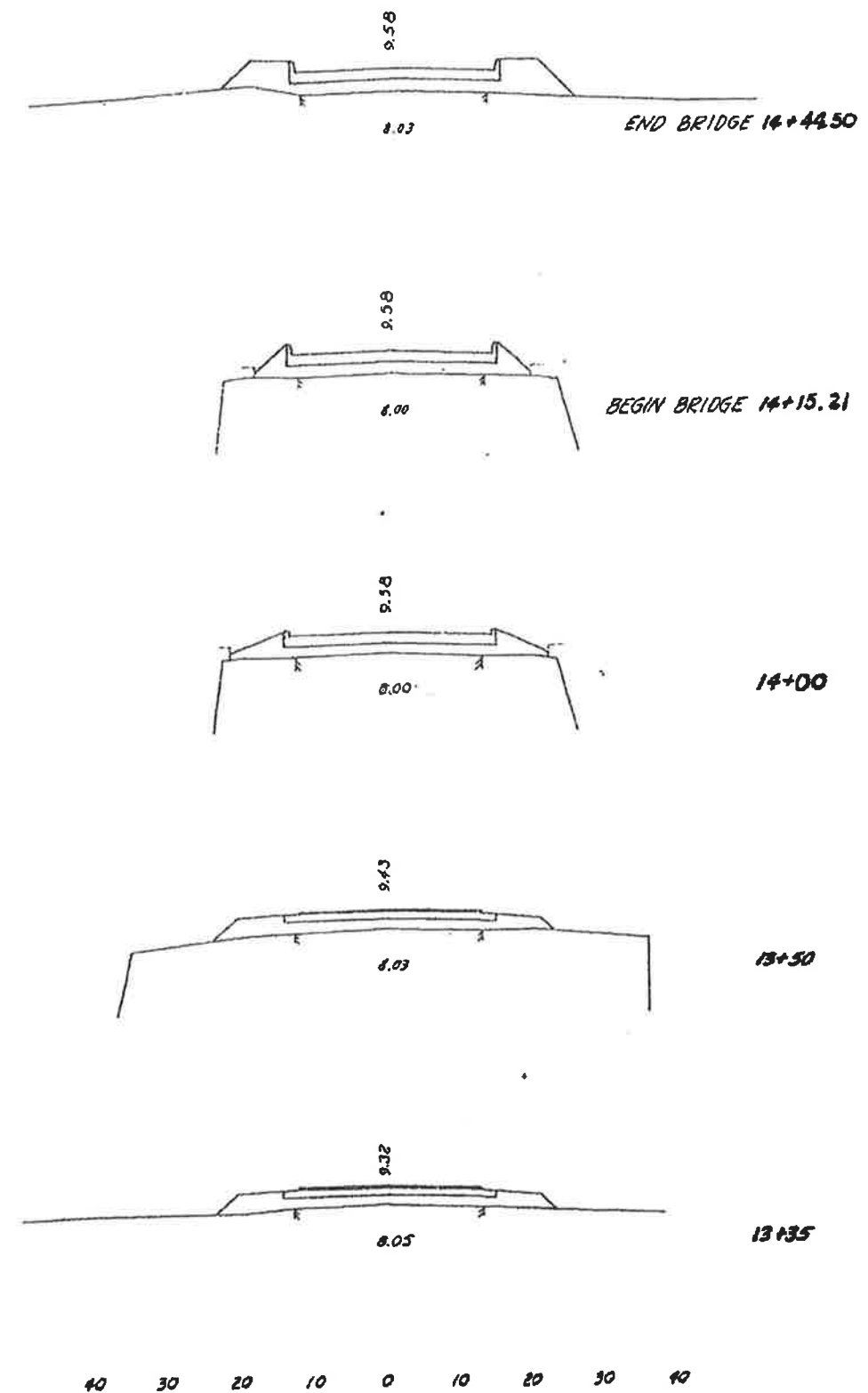


1. A. Jones  
 2. A. Jones  
 3. A. Jones  
 4. A. Jones  
 5. A. Jones  
 6. A. Jones  
 7. A. Jones  
 8. A. Jones  
 9. A. Jones  
 10. A. Jones  
 11. A. Jones  
 12. A. Jones  
 13. A. Jones  
 14. A. Jones  
 15. A. Jones  
 16. A. Jones  
 17. A. Jones  
 18. A. Jones  
 19. A. Jones  
 20. A. Jones  
 21. A. Jones  
 22. A. Jones  
 23. A. Jones  
 24. A. Jones  
 25. A. Jones  
 26. A. Jones  
 27. A. Jones  
 28. A. Jones  
 29. A. Jones  
 30. A. Jones  
 31. A. Jones  
 32. A. Jones  
 33. A. Jones  
 34. A. Jones  
 35. A. Jones  
 36. A. Jones  
 37. A. Jones  
 38. A. Jones  
 39. A. Jones  
 40. A. Jones  
 41. A. Jones  
 42. A. Jones  
 43. A. Jones  
 44. A. Jones  
 45. A. Jones  
 46. A. Jones  
 47. A. Jones  
 48. A. Jones  
 49. A. Jones  
 50. A. Jones  
 51. A. Jones  
 52. A. Jones  
 53. A. Jones  
 54. A. Jones  
 55. A. Jones  
 56. A. Jones  
 57. A. Jones  
 58. A. Jones  
 59. A. Jones  
 60. A. Jones  
 61. A. Jones  
 62. A. Jones  
 63. A. Jones  
 64. A. Jones  
 65. A. Jones  
 66. A. Jones  
 67. A. Jones  
 68. A. Jones  
 69. A. Jones  
 70. A. Jones  
 71. A. Jones  
 72. A. Jones  
 73. A. Jones  
 74. A. Jones  
 75. A. Jones  
 76. A. Jones  
 77. A. Jones  
 78. A. Jones  
 79. A. Jones  
 80. A. Jones  
 81. A. Jones  
 82. A. Jones  
 83. A. Jones  
 84. A. Jones  
 85. A. Jones  
 86. A. Jones  
 87. A. Jones  
 88. A. Jones  
 89. A. Jones  
 90. A. Jones  
 91. A. Jones  
 92. A. Jones  
 93. A. Jones  
 94. A. Jones  
 95. A. Jones  
 96. A. Jones  
 97. A. Jones  
 98. A. Jones  
 99. A. Jones  
 100. A. Jones



Scale:  $1'' = 10'$  Horiz.  
 $1'' = 5'$  Vert.

VOLUME	
CUT	FILL
0	7
0	33
20	50
1	1
0	0



Bridge No. 874431	EB - 4
-------------------	--------

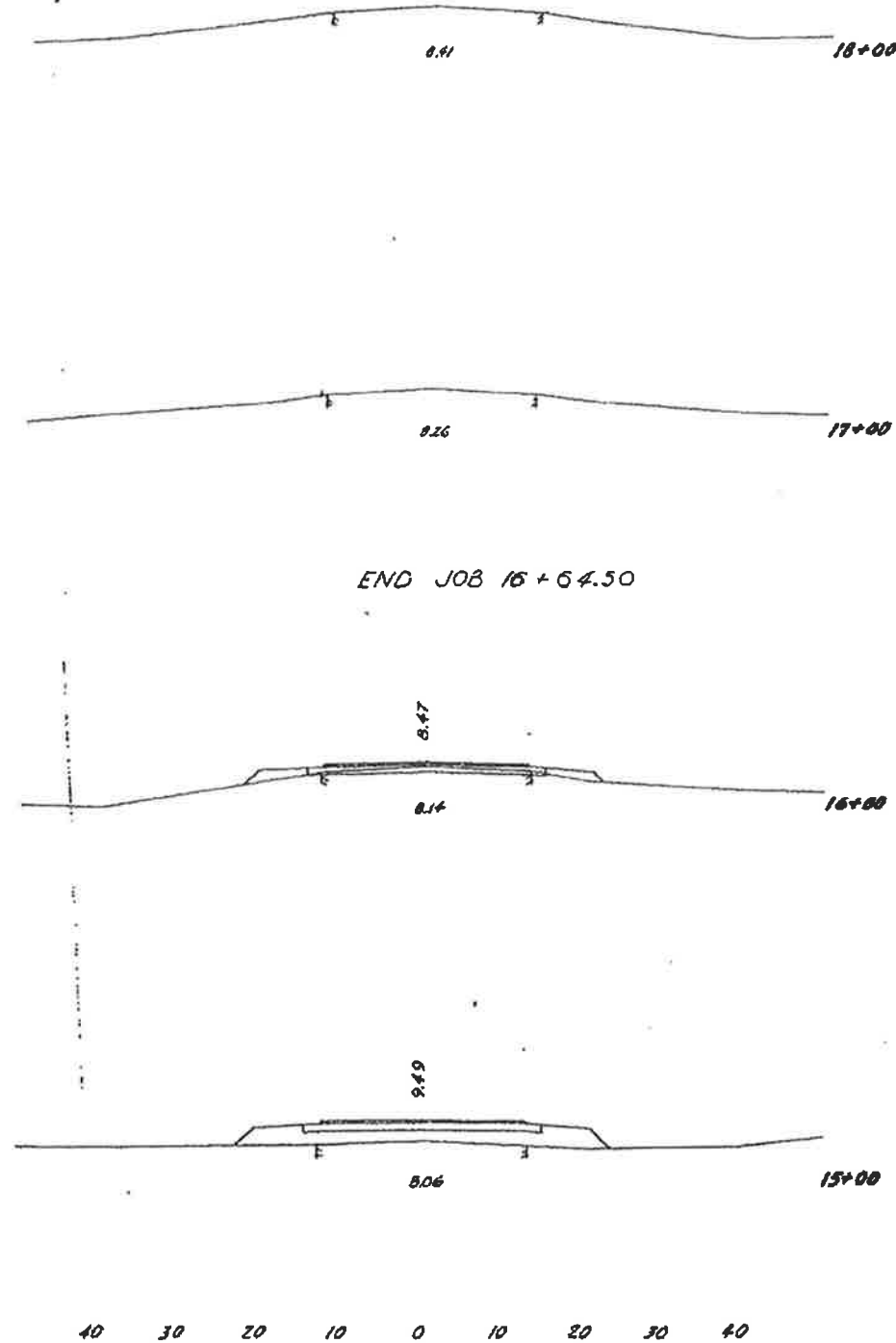
DADE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION  
CARIBBEAN BLVD. BRIDGE  
OVER BEL-AIRE CANAL  
PROJECT NO. 1222 SHEET 3 OF 12

VOLUME	
CUT	FILL
0	102"
0	0
0	30
0	84
0	22

20-42  
21-08  
20-42  
20-42

L.A. Johnson  
L.A. Johnson  
L.A. Johnson  
L.A. Johnson

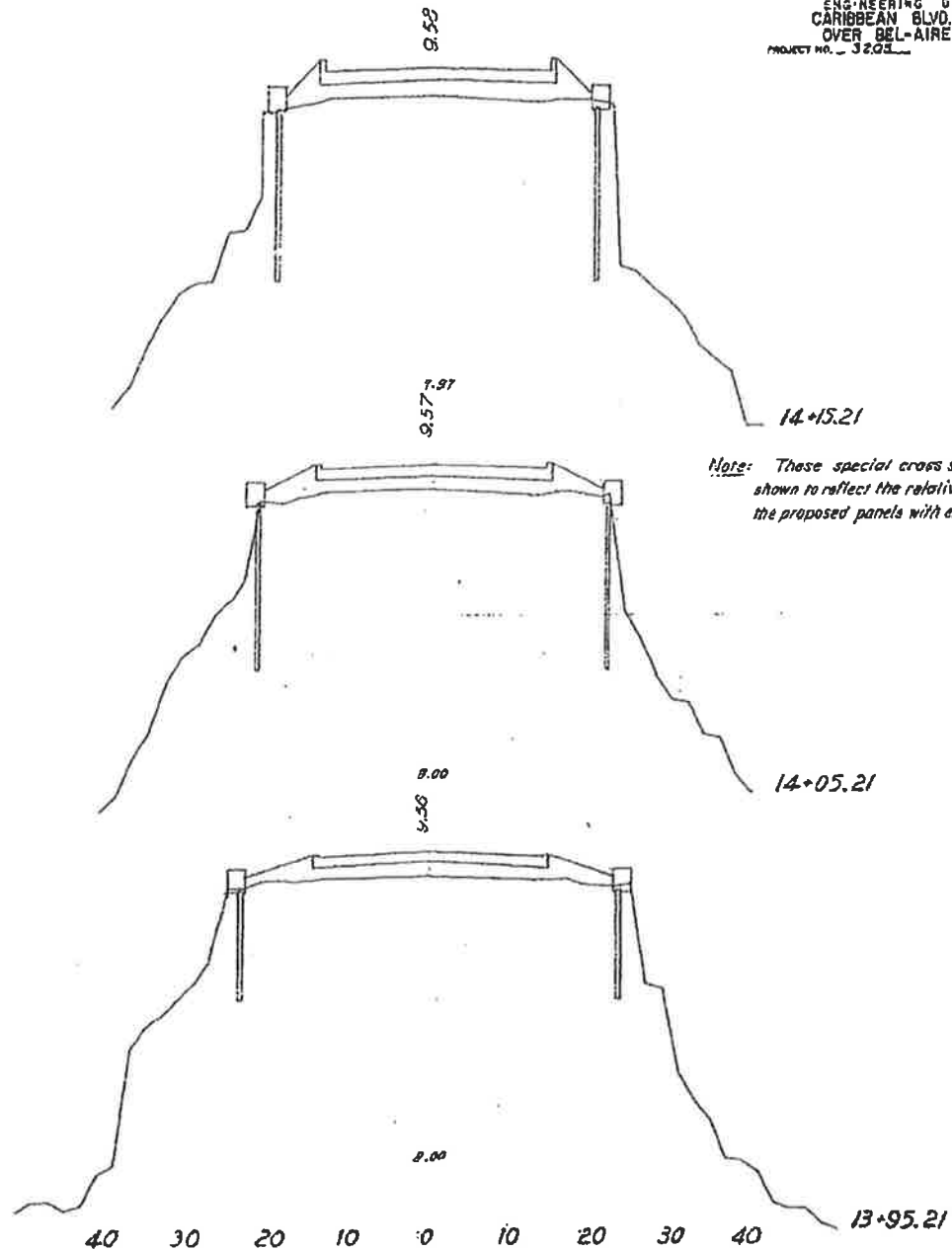
558



Scale: 1" = 10' Horiz.  
1" = 5' Vert.

VOLUME	
CUT	FILL
0	0
10	10
17	97
48	436

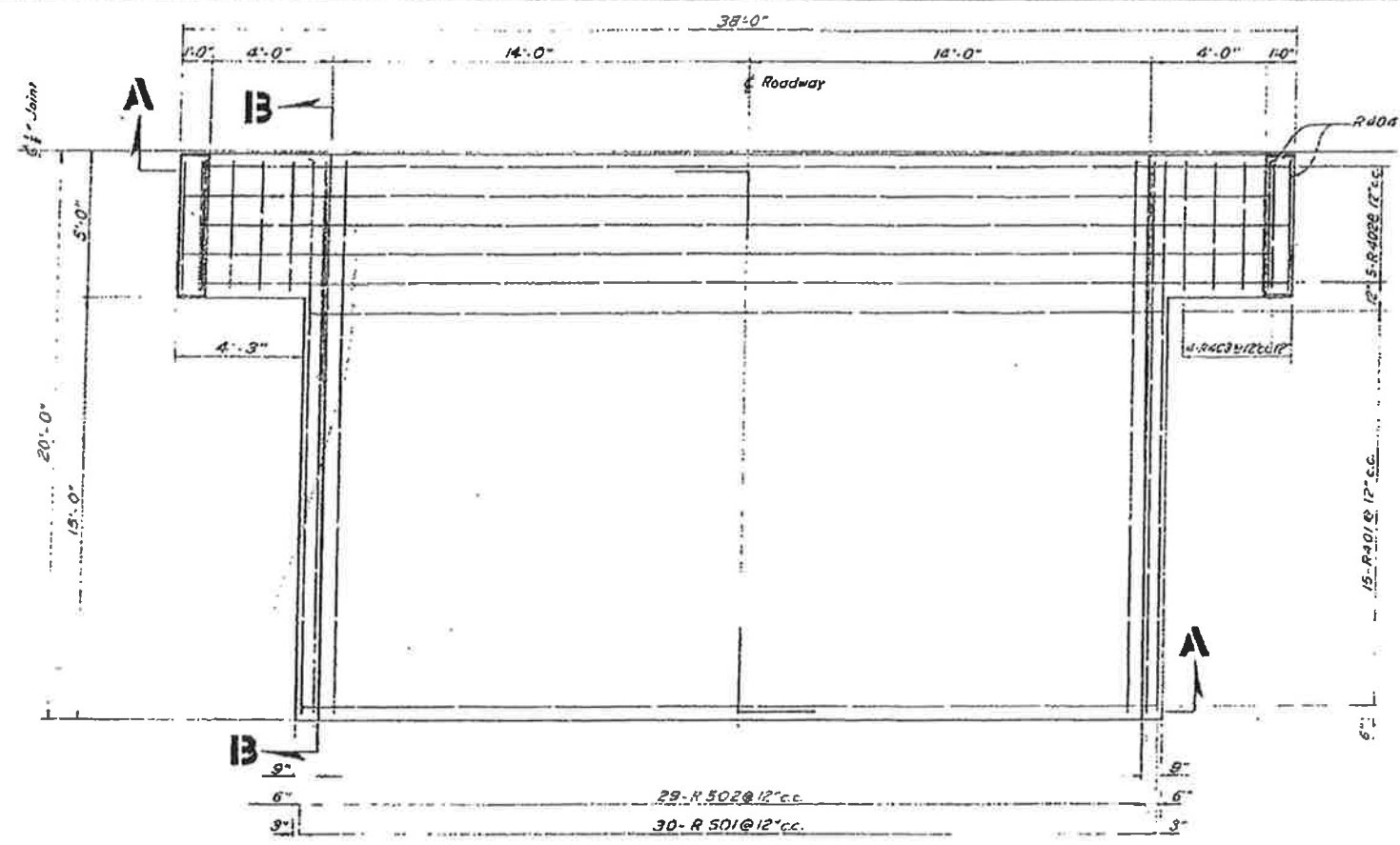
Bridge No. 874431 EB - 5  
JADE COUNTY PUBLIC WORKS DEPT.  
ENGINEERING DIVISION  
CARIBBEAN BLVD. BRIDGE  
OVER BEL-AIRE CANAL  
PROJECT NO. 3203 SHEET 2 OF 12



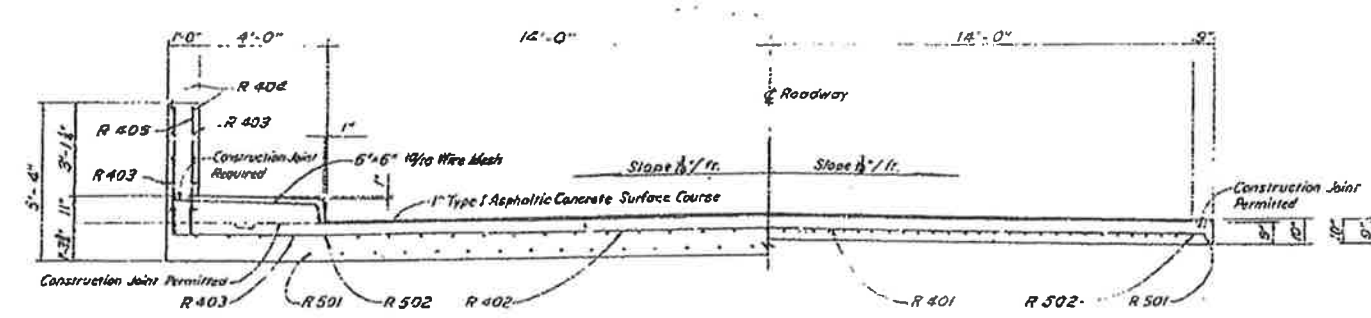
Note: These special cross sections are shown to reflect the relative position of the proposed panels with existing profile.

SUMMARY OF EARTHWORK	
Canal Excavation	523 C.Y.
Canal Fill + 30%	23 C.Y.
Roadway Excavation	48 C.Y.
Roadway Fill + 30%	567 C.Y.
Total Fill + 30%	590 C.Y.
Total Cut	571 C.Y.
Borrow	19 C.Y.

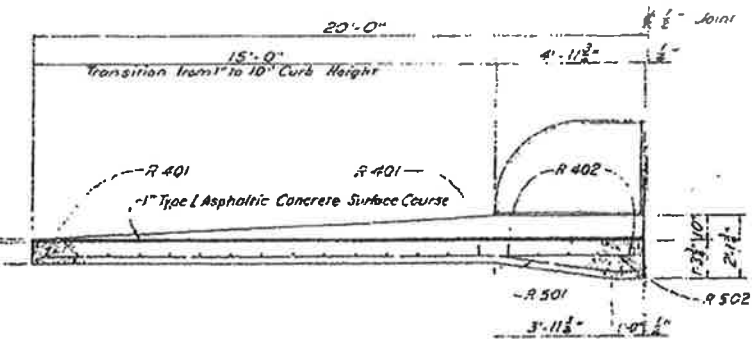




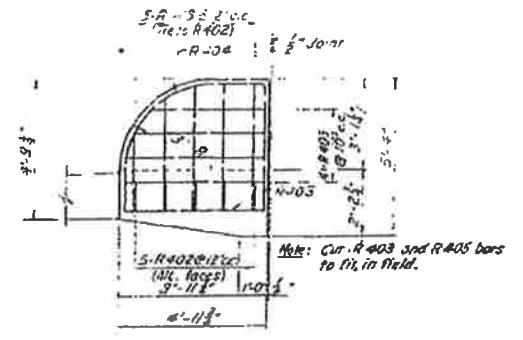
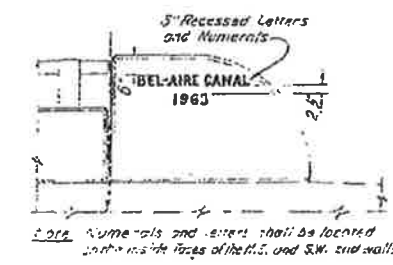
**PLAN**  
Scale:  $\frac{1}{8}$ " = 1'-0"



**SECTION AA**  
Scale:  $\frac{1}{8}$ " = 1'-0"

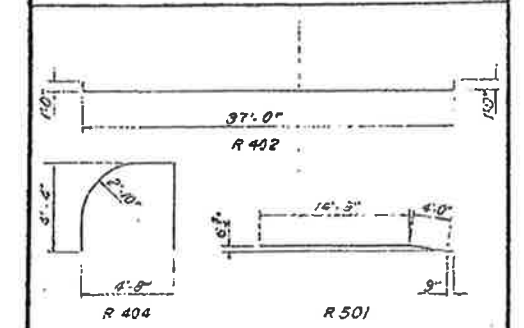


**SECTION BB**  
Scale:  $\frac{1}{8}$ " = 1'-0"



**END WALL DETAIL**  
Scale:  $\frac{1}{8}$ " = 1'-0"

**BENDING DIAGRAM**



**BILL OF REINFORCING STEEL FOR ONE APPROACH SLAB**

Mark	No. Req'd	Length	Mark	No. Req'd	Length
R 401	15	29'-0"	R 501	30	19'-6"
R 402	5	38'-10"	R 502	29	19'-6"
R 403	24	4'-8"			
R 404	4	12'-0"			
R 405	20	4'-4"			

**ESTIMATED QUANTITIES FOR ONE APPROACH SLAB**

No.	Item	Unit	Quantity
1	Class A Concrete	CY	22.87
2	Reinforcing Steel	Lb.	1784

- Notes: (Unless otherwise noted)
- In all bills of reinforcement, the first digit of the bar number indicates the bar size, e.g., bar S 601 is a No. 6 bar.
  - All reinforcing steel shall be new deformed bars in accordance with ASTM A 305 and shall be either intermediate grade biller steel in accordance with ASTM A 15 or rail steel in accordance with ASTM A 16.
  - In bending diagrams all dimensions are out to out.
  - Reinforcing steel placement shall comply with "Recommended Practice for Placing Reinforcing Steel" by the Concrete Reinforcing Steel Institute. Coil ties, snap ties or other metal devices used in concrete form construction shall provide the minimum cover specified.
  - All exposed edges and corners of endwalls to be chamfered one inch.
  - All exposed edges of concrete approach slab to be topped to 2" R.
  - Minimum cover on reinforcing steel shall be 2" except the minimum cover shall be 3" where earth is used as a form.
  - No extra payment shall be made for thickening and if any.
  - Concrete shall be Class A.
  - Seal the approach slabs on 2 layers of 55# roofing felt.
  - For joint details between approach slab and bridge see Superstructure sheet.
  - The quantities shown are for the Contractor's information only. Payment shall be made under Item No. 130-2 and shall not include payment for Type I Asphaltic Concrete Surface Course.

DADE COUNTY PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

**APPROACH SLAB**

**CARIBBEAN BLVD. BRIDGE OVER BEL-AIRE CANAL**

DESIGNED BY: M. W. G. 2  
CHECKED BY: M. W. G. 2  
DATE: APRIL 1963  
FILE: 3205  
SHEET: 6 OF 17

REVISION	DATE	DESCRIPTION	BY

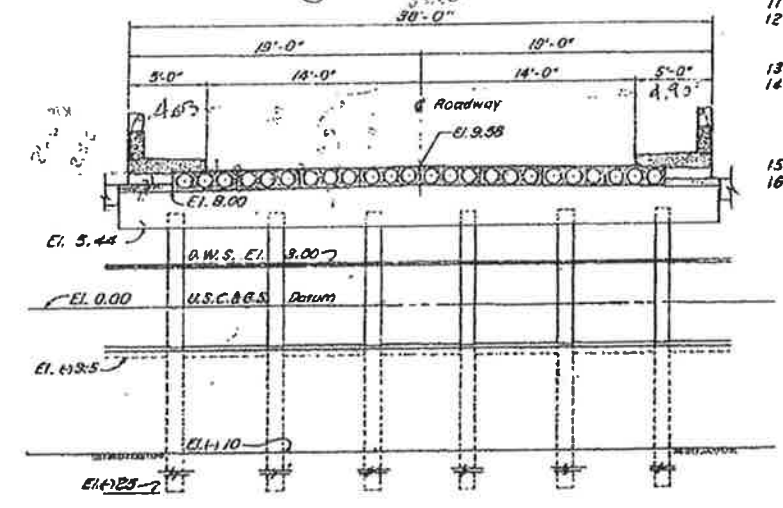
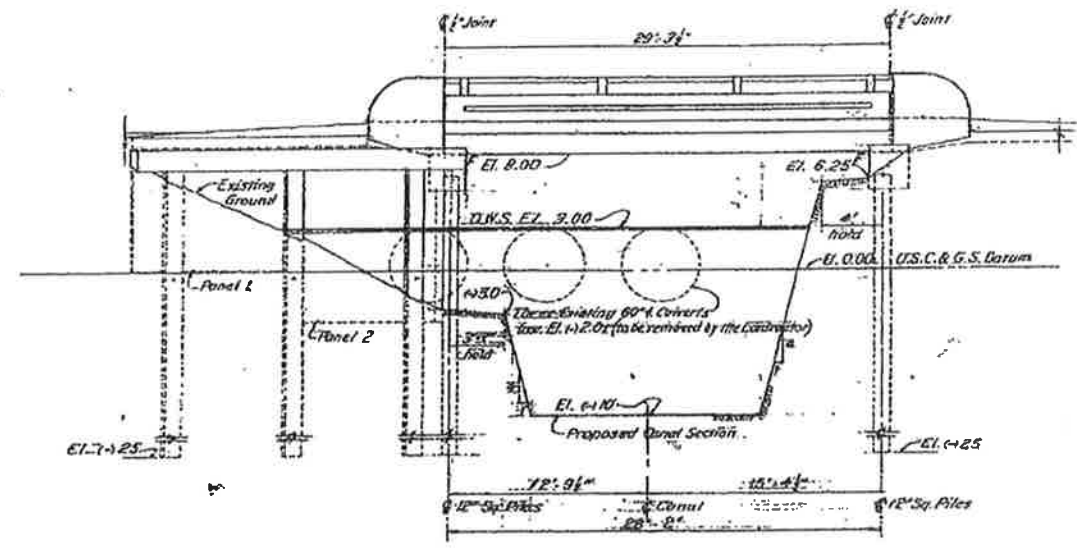
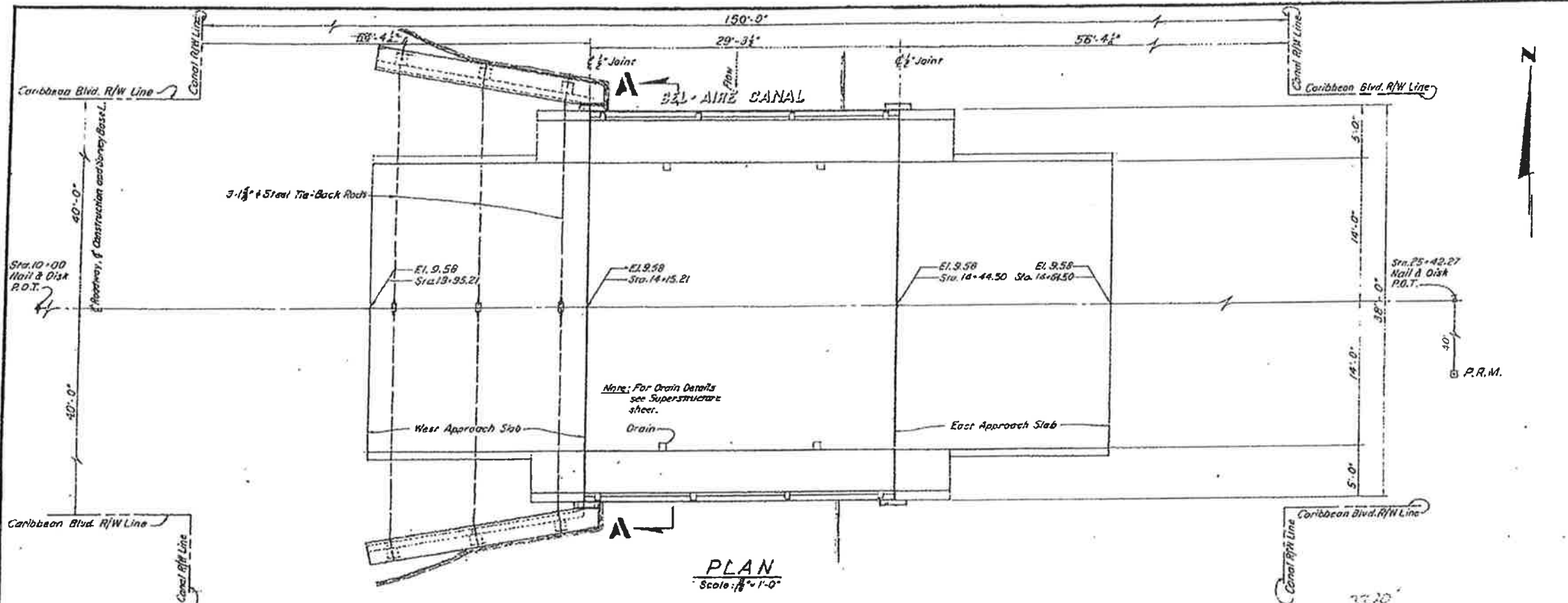


ESTIMATED BRIDGE QUANTITIES			
No.	Item	Unit	Quantity
57-4	Regular Excavation (Canal Only)	L.S.	1
300-1	Class A* Concrete	C.Y.	54.9
310-1	Reinforcing Steel	Lbs.	6639
401-3	Prestressed Slab Units	S.F.	312
403-3	Precast Concrete Piling Furnished (12")	L.F.	542
403-4	Precast Concrete Piling Driven (12")	L.F.	542
403-5	Unloaded Test Piles (12")	L.F.	32
403-10	Test Loads	Ea.	1
403-14	Punching	PRH.	18
407-1	Aluminum Handrail	L.F.	58.5

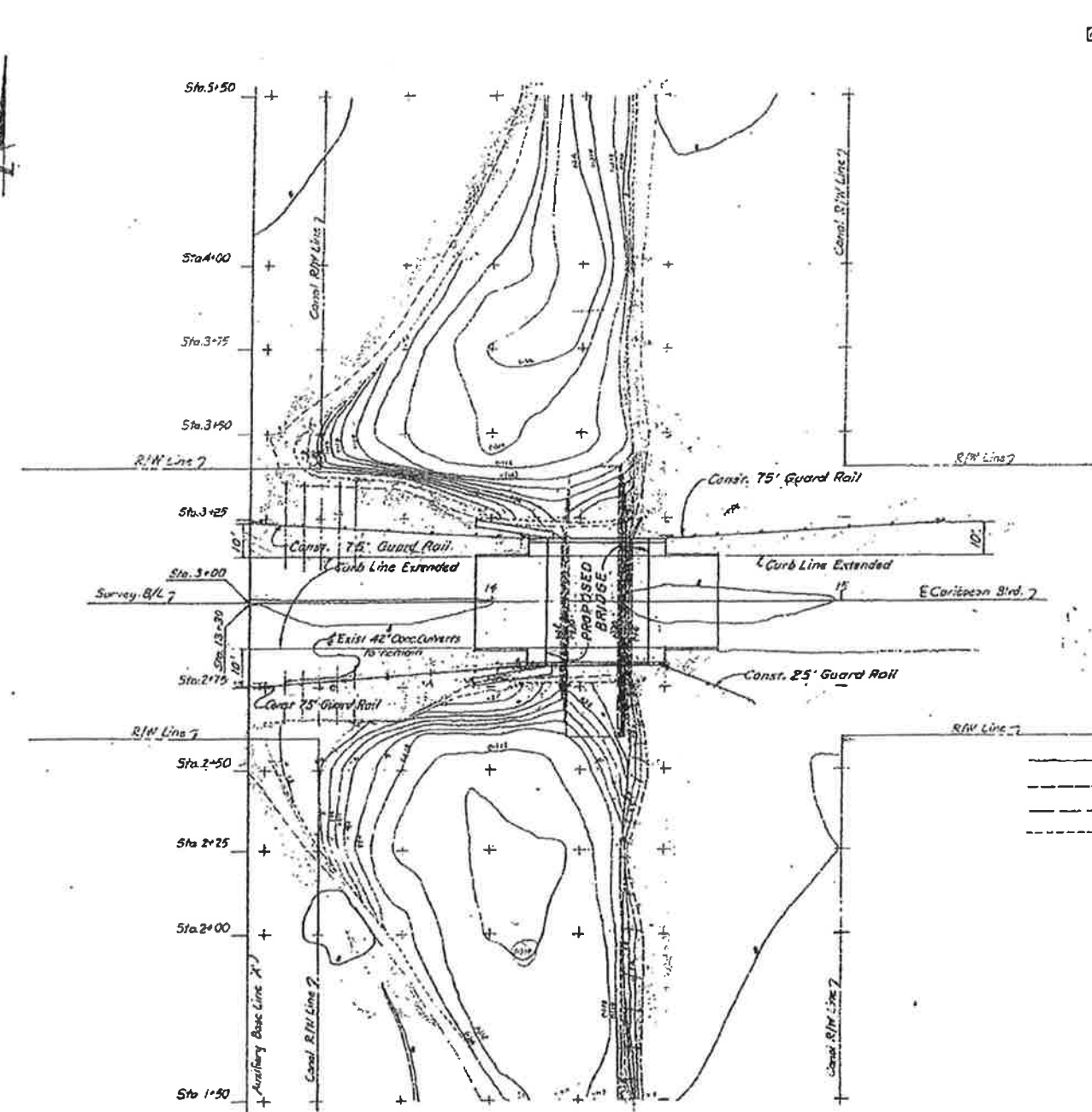
\* P.P.H. (Per Pile Hour)

General Notes (Unless otherwise noted)

- The design specifications used are as follows: AASHTO, 1901, Joint Committee 323 Report.
- Design loading is H20-S16-44.
- Elevations are referred to U.S.C. & G.S. Datum, M.S.L.
- Minimum elevations are shown of pile tips.
- Water levels will remain at elevations between +1.70 and +2.40 feet above M.S.L. except during floods or periods of abnormal high tides.
- Quantities shown are estimated and subject to verification by the Contractor.
- In all bills of reinforcement, the first digit of the bar number indicates the bar size, e.g., bar 5801 is a No. 6 bar.
- All reinforcing steel shall be new deformed bars in accordance with ASTM A 305 and shall be either intermediate grade billet steel in accordance with ASTM A 15 or roll steel in accordance with ASTM A 16.
- In bending diagrams all dimensions are out to out.
- Concrete used in prestressed members shall be Class PR. All other structural concrete used shall be Class A.
- For details of Approach Slabs see Road Plans.
- Tops of sidewalks shall be given a broom finish. All other exposed surfaces as seen in plan and elevation shall be given a Class I Surface Finish.
- For survey data refer to F.D. #558.
- Reinforcing steel placement shall comply with "Recommended Practice for Placing Reinforcing Bars" by the Concrete Reinforcing Steel Institute. Coil ties, snap ties or other metal devices used in concrete form construction shall provide the minimum cover specified.
- All exposed edges and corners to be chamfered one inch.
- Minimum cover on reinforcing steel shall be 2" except the minimum cover shall be 3" where earth is used as a form.



DADE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
<b>PLAN &amp; ELEVATION</b> <b>CARIBBEAN BLVD. BRIDGE</b> <b>OVER</b> <b>BEL-AIRE CANAL</b>		APPROVED DATE: APRIL 1963 FILE: 3203 SHEET: 7 OF 17	

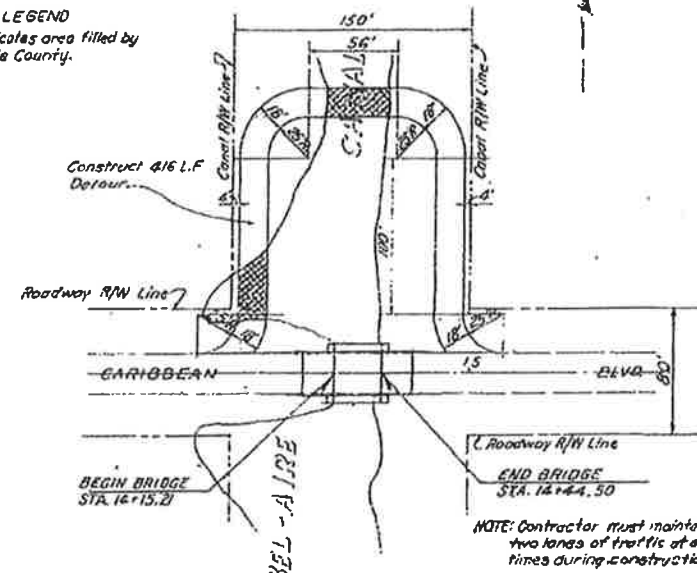


CONTOUR MAP

$$E_{\text{max}} = 1.5 \times 10^5 \text{ eV}$$

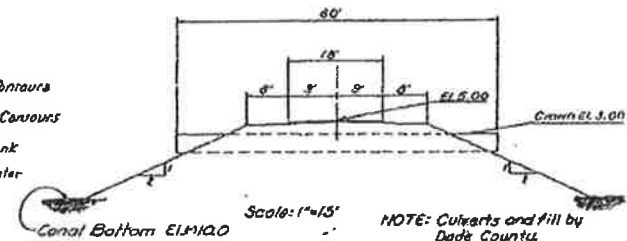
Contour interval 2 Feet (All contours not shown)

**LEGEND**  
 Indicates area filled by  
 Dade County.



DETOUR ROAD

Scale 1"=50'

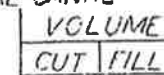


DETOUR ROAD  
CULVERT SECTION

NOTE: Culverts and fill by  
Dade County

DADE COUNTY PUBLIC WORKS DEPARTMENT			
ENGINEERING DIVISION			
DESIGN M. R. Ford	CONTOUR MAP		
DRAWN B. D. Sautel	CARIBBEAN BLVD. BRIDGE		
CHECK J. Brown	OVER BEL-AIR CANAL		
PROPOSED J. Brown	RECOMMENDED J. Brown	APPROVED J. Brown	
DATE APRIL 1963	SCALE 3805	SHEET 8 OF 17	

				RECOMMENDED APPROVED RECOMMENDED APPROVED	
REVISION	DATE	DESCRIPTION	BY	DATE	SHEET
				APRIL 1963	3205
					9 OF 17



(4)

Note

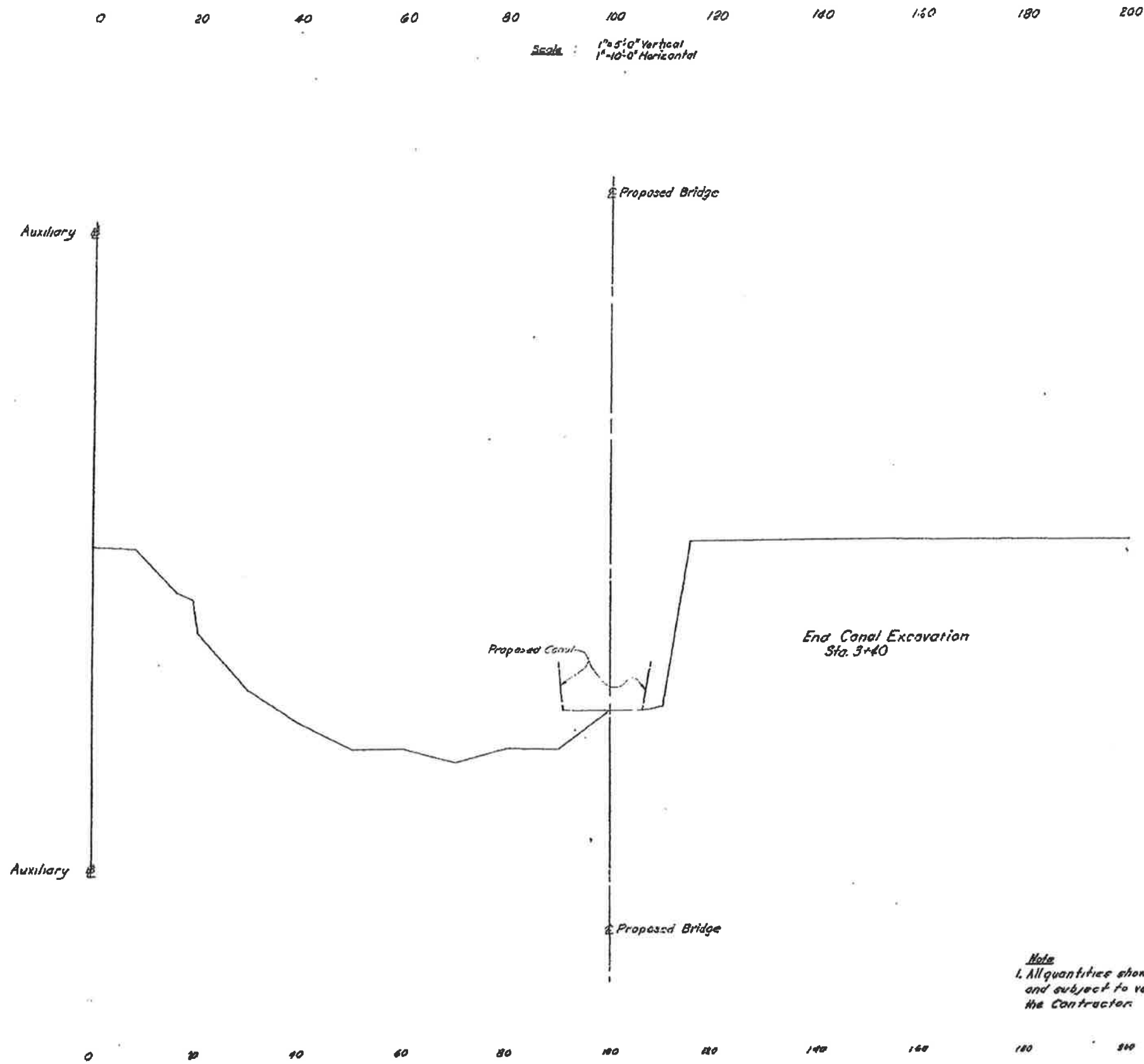
1. Grade and alignment west of sta. 14+15.21 and east of sta. 14+44.50 shall be as indicated on Roadway X-Sections.
2. All quantities shown are estimated and subject to verification by the Contractor; any embankment required between abutments shall be included in the unit price for Regular Excavation, (canal only).

180 200



CARIBBEAN BLVD.  
BRIDGE OVER  
BEL-AIRE CANAL

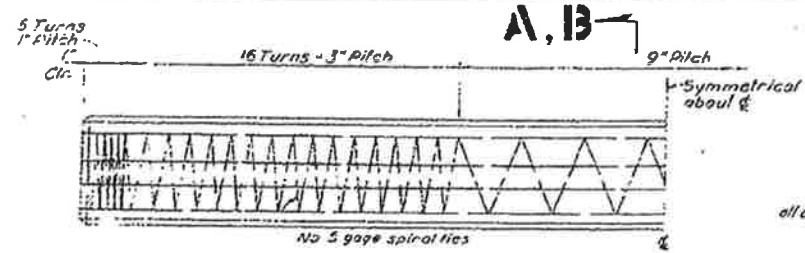
VOLUME  
CUT FILL



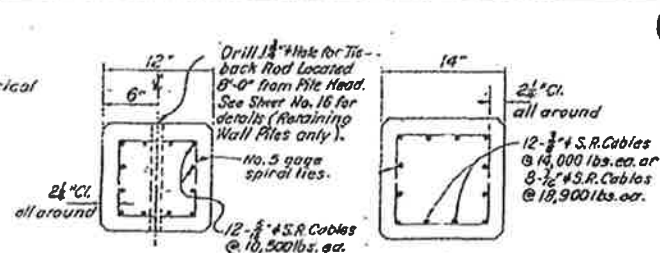
Note  
1. All quantities shown are estimated  
and subject to verification by  
the Contractor.

Total

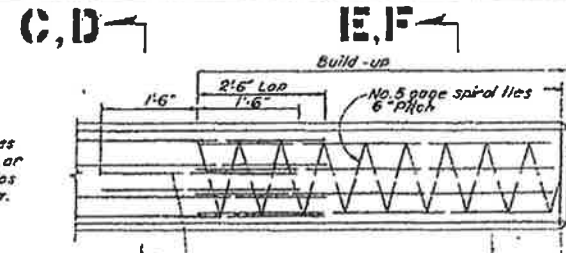
523 18  
Sheet II of II.



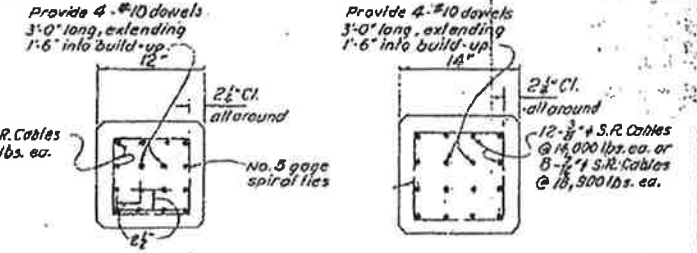
**A, B**  
PRESTRESSED PILES 12" SQ.  
Single pick-up point Max. Length 50', 12" pile, 60', 14" pile  
Double pick-up point Max. Length 75', 12" pile, 85', 14" pile



**SECTION AA** **SECTION BB**



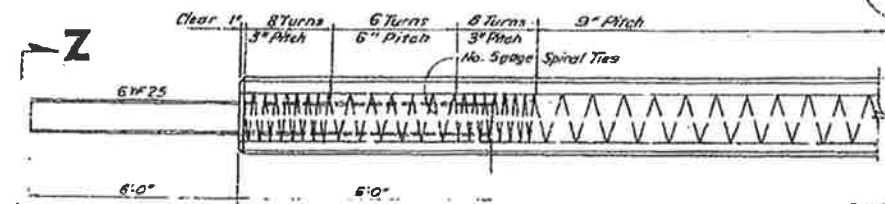
**SECTION CC** **SECTION DD**  
**TYPICAL BUILD-UP**



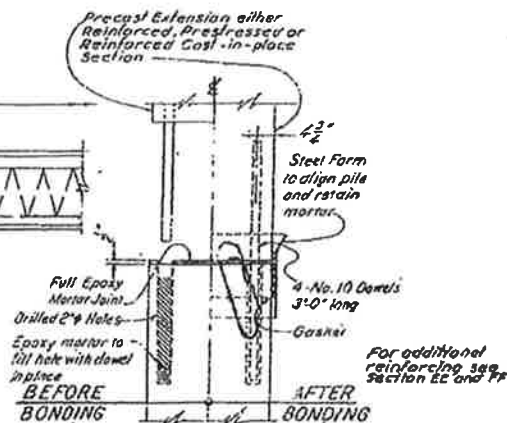
**SECTION EE** **SECTION FF**



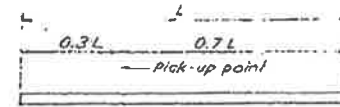
**VIEW ZZ**



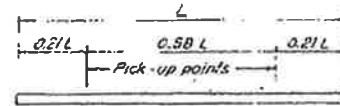
**PRESTRESSED COMPOSITE PILE**



**BONDING DETAIL** **12" PILE**  
**ALTERNATE EPOXY BOND SPLICE**



**SINGLE**



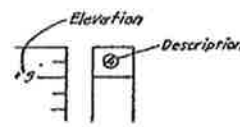
**DOUBLE**

**PICK-UP POINTS**

- Notes: (Unless otherwise noted)**
- For General Notes See Plan and Elevation Sheet.
  - Each spiral shall be tied to at least two corner cables.
  - Spirals may be manufactured from stock meeting the requirements of any grade of reinforcing steel or hard drawn steel.
  - Concrete for piles and build-ups shall be Class P."
  - Piles shall be marked at pick-up points to indicate location of handling lines.
  - A 1/4" chamfer shall be provided at all edges.
  - When cutting concrete piles, an abrasive saw shall be used to score the concrete at cut-off elevation, to the approximate depth of prestressed strands. An alternate to sawing, scoring may be done with a templated power drill.
  - All reinforcement to have minimum clear cover of 2" except strands at ends of piles.
  - Design load and minimum tip elevation for piles are as follows:  
End Bent: 25 tons, 125'; Wing Wall 10 tons, 425'
  - Denotes Boring Hole Location.
  - Special note should be taken of the orientation of the piles.
  - Denotes location of unloaded test piles. Location of test pile may be changed subject to the approval of the Engineer.

- DESCRIPTION**
- Light Tan Rock and Sand.
  - Dark Tan Rock and Sand.
  - Light Tan, Hard Rock.
  - Dark Tan Rock and Marly Brown Sand.
  - Light Tan Rock and Marly Sand.
  - Dark Gray Sand and Rock Fragments.
  - Dark Gray Rock and Marly Sand.
  - Light Tan, Marly Sand and Some Rock.

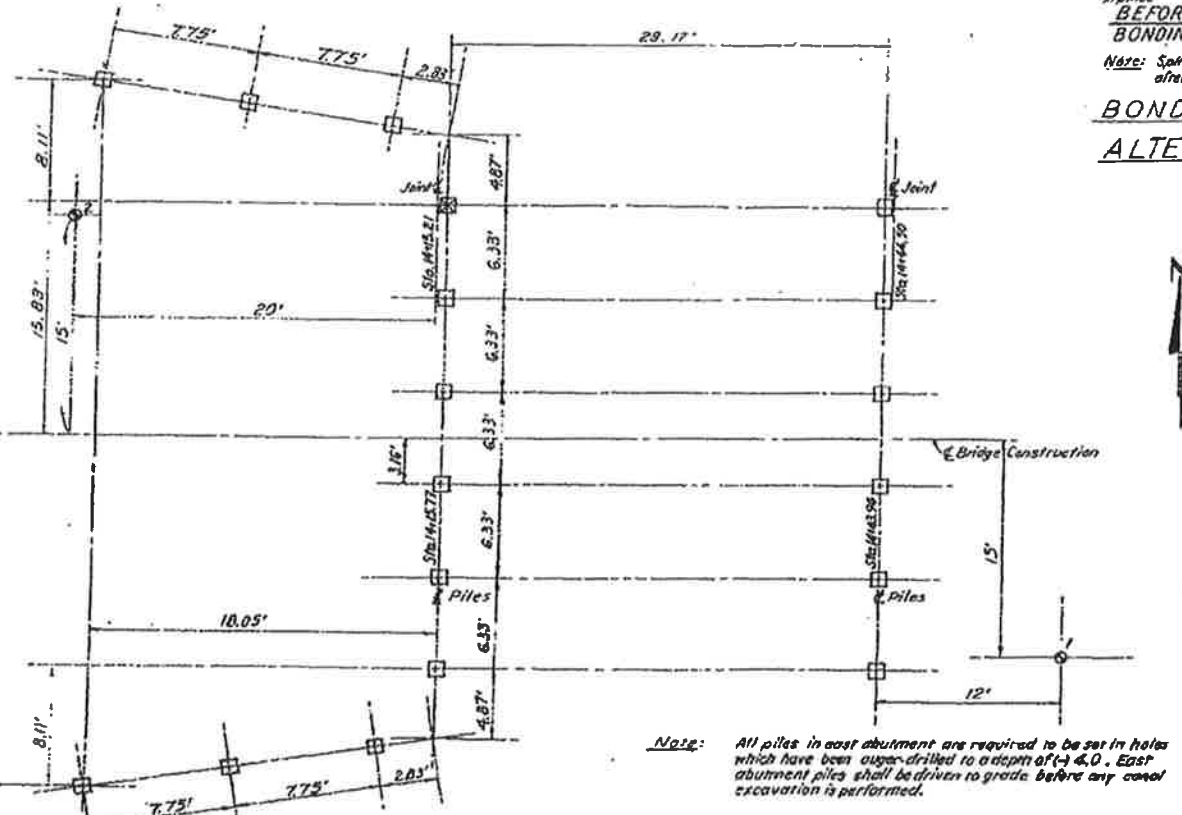
**LEGEND**



**BORING DATA**

Ground El. +10'	+7	+7
13	0	0
12	0	0
11	0	0
10	0	0
9	0	0
8	0	0
7	0	0
6	0	0
5	0	0
4	0	0
3	0	0
2	0	0
1	0	0
0	0	0
-1	0	0
-2	0	0
-3	0	0
-4	0	0
-5	0	0
-6	0	0
-7	0	0
-8	0	0
-9	0	0
-10	0	0
-11	0	0
-12	0	0
-13	0	0
-14	0	0
-15	0	0
-16	0	0
-17	0	0
-18	0	0
-19	0	0
-20	0	0
-21	0	0
-22	0	0
-23	0	0
-24	0	0
-25	0	0
-26	0	0
-27	0	0
-28	0	0
-29	0	0
-30	0	0
-31	0	0
-32	0	0
-33	0	0

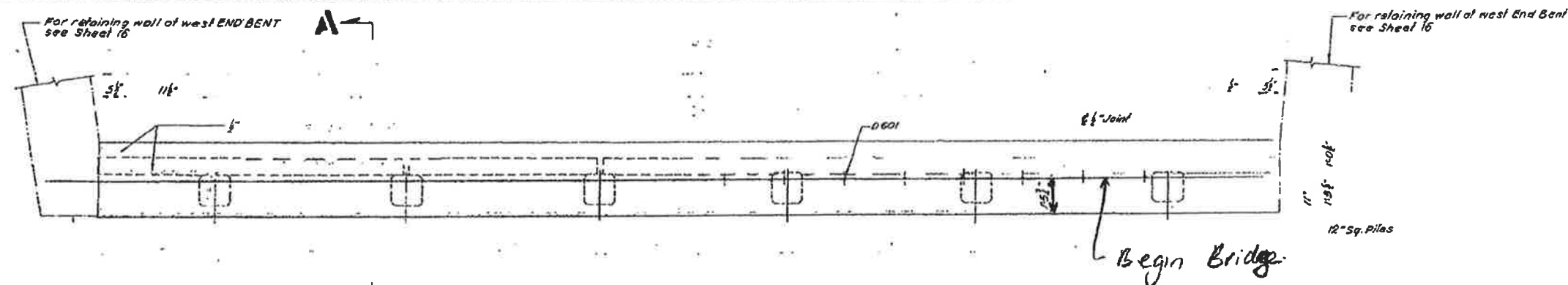
DADE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION			
DESIGN M. R. Bivard	PILING PLAN & DETAILS		
CHECK R. Bivard	CARIBBEAN BLVD. BRIDGE		
APPROVED J. Brown	OVER		
REVISION M. Bivard	REL-AIR CANAL		
DATE APRIL 1963	FILE 3205	SHEET 12 OF 32	



**PILE LOCATION PLAN**  
No Scale

**Note:** All piles in east abutment are required to be set in holes which have been auger-drilled to a depth of 4.0'. East abutment piles shall be driven to grade before any canal excavation is performed.





FOR WEST END BENT

8401	62	5:3"	0601	16	1:6"
8402	6	6:2"			
			P501	38	9:7"
8501	2	4:5"	P502	42	5:9"
8502	4	3:4"	P503	28	9:7"

0801 T 38:0'

FOR EAST END BENT

B401	62	5'3"	B801	.7	18'6"
B402	6	6'2"			
			D601	16	1'6"
B501	2	4'5"			
B502	4	3'4"			

ESTIMATED QUANTITIES  
FOR WEST END BENT

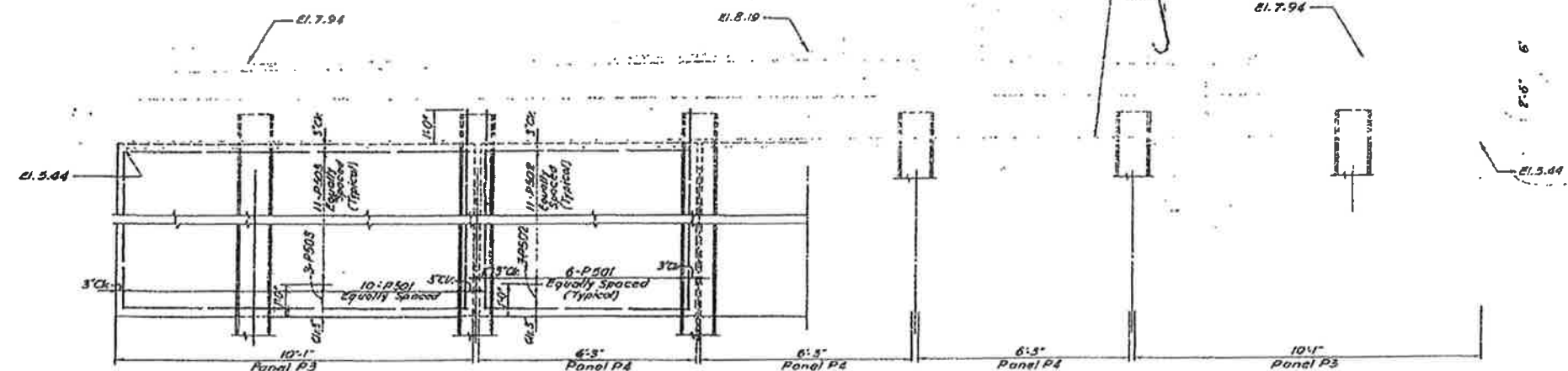
No.	Item	Unit	Quantity
302-1	Gross 4" Concrete	C.Y.	16.80
310-1	Reinforcing Steel	Lb.	1936

FOR EAST END BENT

300-l	Class A* Concrete	C.Y.	9.36
310-l	Reinforcing Steel	Lb.	1024

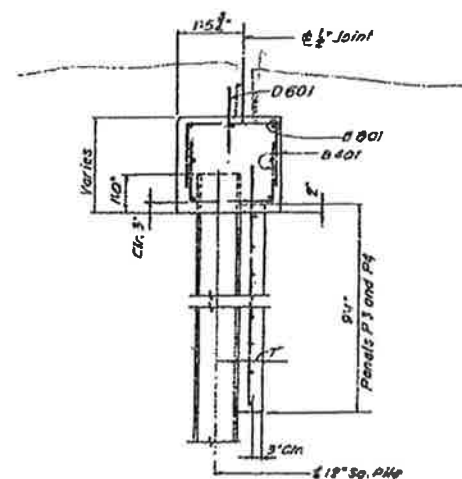
Notes: (Unless otherwise noted)

1. For General Notes see Plan and Elevation Sheet 7.
2. All exposed edges and corners shall be chamfered 1".
3. Slab seats shall be brought to final elevation by grinding.
4. Elevation markers shall be placed at the approach end of the abutments on top of the shear blocks. Markers will be furnished by Deane County and shall be installed by the Contractor at the direction of the Engineer.
5. Installation costs shall be included in the contract unit price for Class A #4 Concrete.
6. Bridge slab is fixed at both ends.



Note:  
Panels P3 and P4 for  
west END BENT only.

ELEVATION  
Scale: 6" = 1'-0"



**SECTION AA**  
Scale: 4" = 110'

: 22 15 10 5 0

*A. T. Moser et al.*

J. Brown

*F. Bucken*

John W.

APRIL

END-BENT

CARIBBEAN BLVD. BRIDGE  
OVER

BEL-AIRE CANAL

John McLean ~~John McLean~~ P.A. Anderson

APRIL 1963

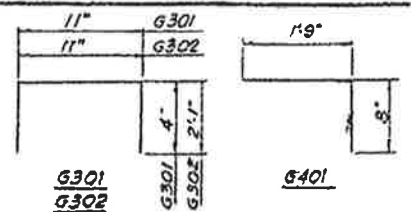
J205

13 14





BENDING DIAGRAM

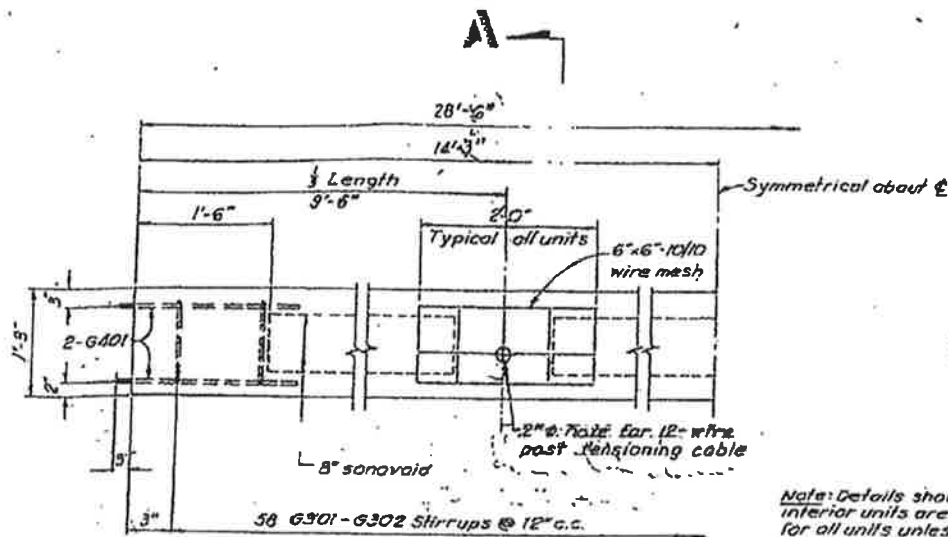


BILL OF REINFORCING STEEL FOR ONE PRESTRESSED SLAB UNIT

Mark	Length	NO. REQUIRED	
		Interior	Exterior
G301	1'-5"	58	58
G302	4'-11"	58	58
G401	2'-8"	8	66

Notes: (Unless otherwise noted)

- For General Notes, see Plan and Elevation Sheet.
- Tops of prestressed units are to be rough (floated). At approximately the time of initial set, the entire top of prestressed units shall be scrubbed transversely with a coarse wire brush to remove all laitance and to produce a rough surface.
- Prestressed concrete shall be Class P,  $f'_c = 5000$  psi.
- In handling prestressed units, they must be maintained in an upright position at all times and must be picked up at ends to prevent damage. The contractor shall be responsible for damage due to improper handling.
- At transfer of the tensioning load, the cylinder strength of concrete shall be 4000 psi. and the concrete shall be at least 20 hrs old.
- Concrete cover over reinforcing steel shall be 2" minimum.
- The use of steel forms on concrete founded casting beds is preferred.
- All reinforcement shall be new. Bars shall be deformed in accordance with ASTM A-305, and shall be either intermediate grade billet steel in accordance with ASTM A-15, or rail steel in accordance with ASTM A-16.
- All strands shall extend 2' beyond ends of slab units.
- Exterior faces of exterior units shall be given a Class 1 Surface Finish in the casting yard within 12 hrs. after casting.
- The Contractor shall provide cement grout under each slab unit, if required by the Engineer, to provide a uniform top surface and, or, a uniform bearing surface for the slab units.

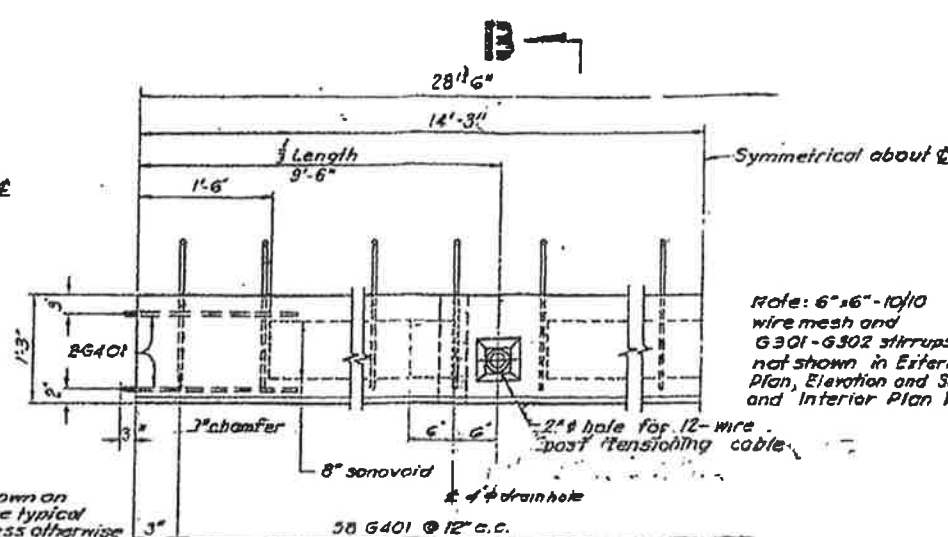


HALF INTERIOR UNIT

Scale: 1" = 1'-0"

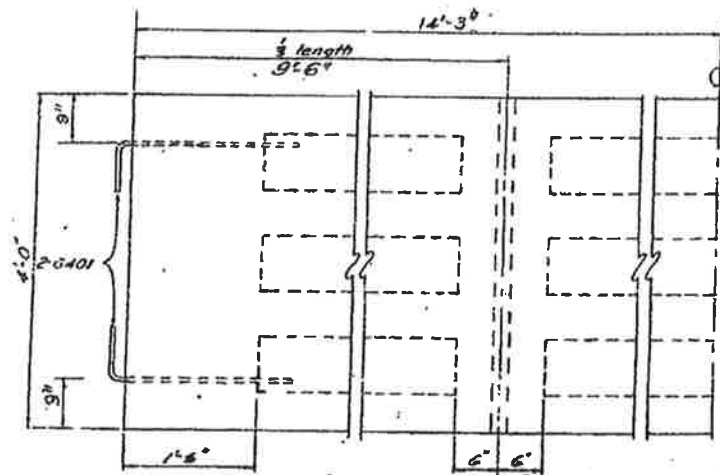
ELEVATION

Note: Details shown on interior units are typical for all units unless otherwise noted. Keyways are not shown in Plan and Elevation views.



HALF EXTERIOR UNIT

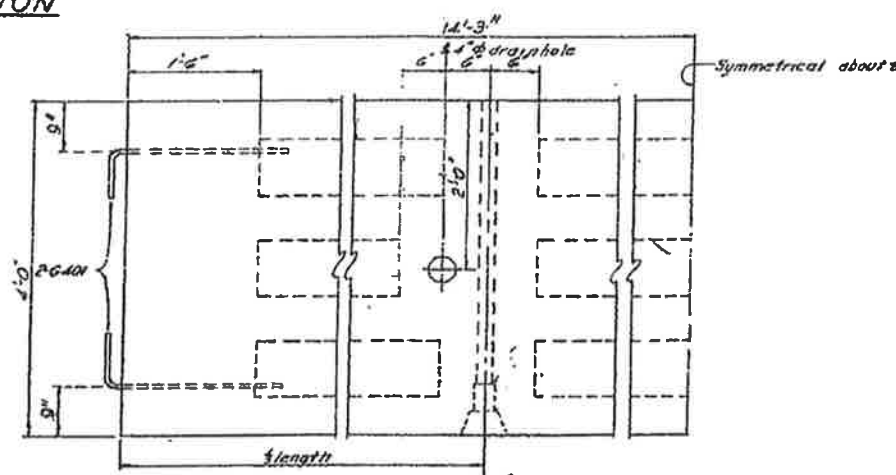
Scale: 1" = 1'-0"



HALF INTERIOR UNIT

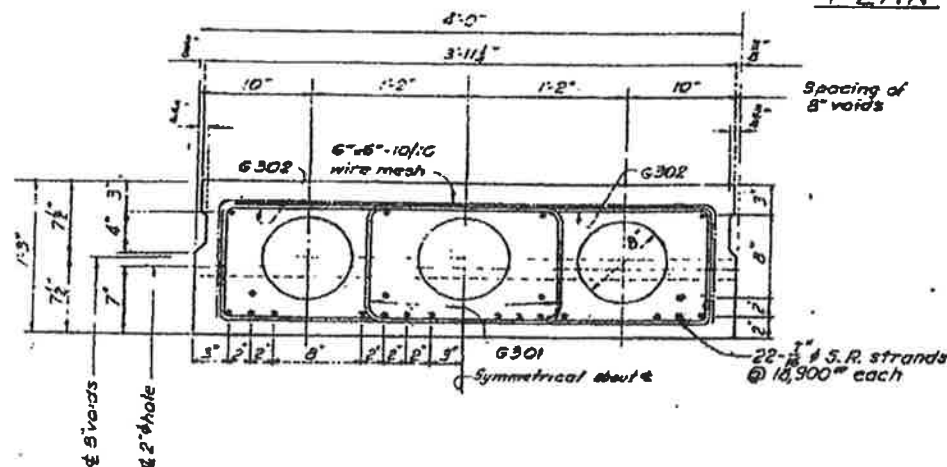
Scale: 1" = 1'-0"

PLAN



HALF EXTERIOR UNIT

Scale: 1" = 1'-0"

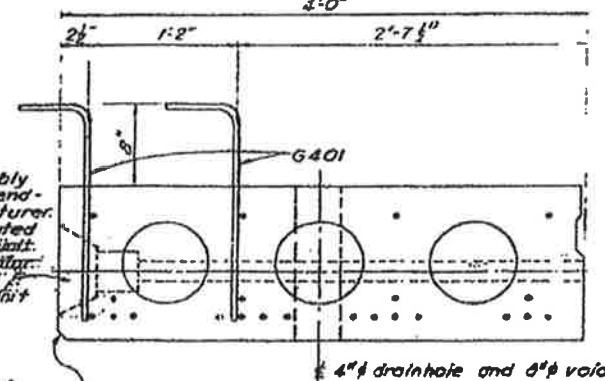


SECTION A-A

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

Size of recess for anchorage assembly shall be as recommended by the manufacturer. Recess shall be grouted flush with face of slab and shall match color and texture of Prestressed Slab Unit.

1" chamfer outboard side of exterior unit only.



SECTION B-B

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

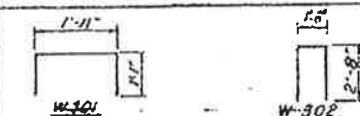
DADE COUNTY PUBLIC WORKS DEPARTMENT  
ENGINEERING DIVISION

DESIGN: M. J. R. Ward  
DRAWN: Crumley  
CHECK: J. Brown  
PROPOSED: [Signature]

PRESTRESSED SLAB UNIT  
CARIBBEAN BLVD. BRIDGE  
OVER  
BEL-AIRE CANAL

REVISION	DATE	DESCRIPTION	BY	DATE	FILE	SHEET
					3205	15 of 16

# BENDING DIAGRAM



## BILL OF REINFORCING STEEL FOR ONE WALL

Mark	Reqd.	Length	Mark	No. Req'd	Length
W-301	45	5'-11"	P-505	24	9'-8"
W-302	2	6'-8"	P-506	10	7'-7"
W-303	1	1'-0"	*A-1	1	See Plan
W-304	3	2'-4"	*A-2	1	See Plan
W-305	10	11'-2"	*A-3	1	See Plan

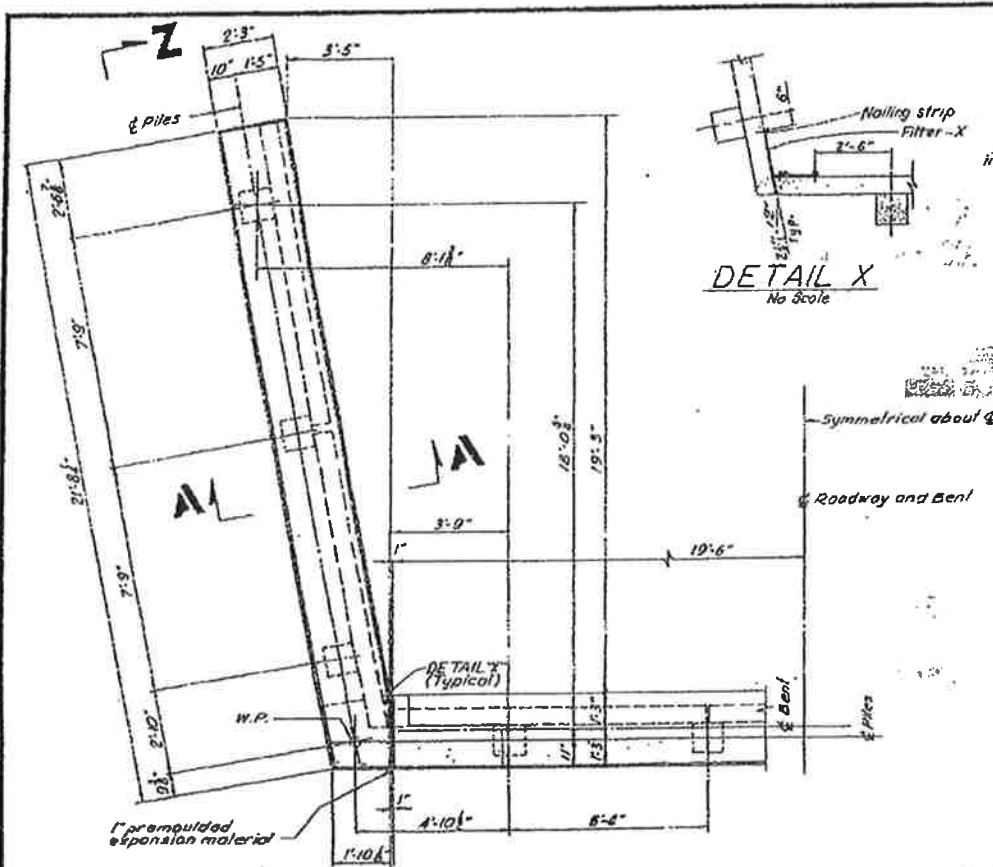
## ESTIMATED QUANTITIES FOR ONE WALL

No.	Item	Unit	Quantity
300-1	Mass A* Concrete	C.Y.	6.51
310-1	Reinforcing Steel	Lb.	1154

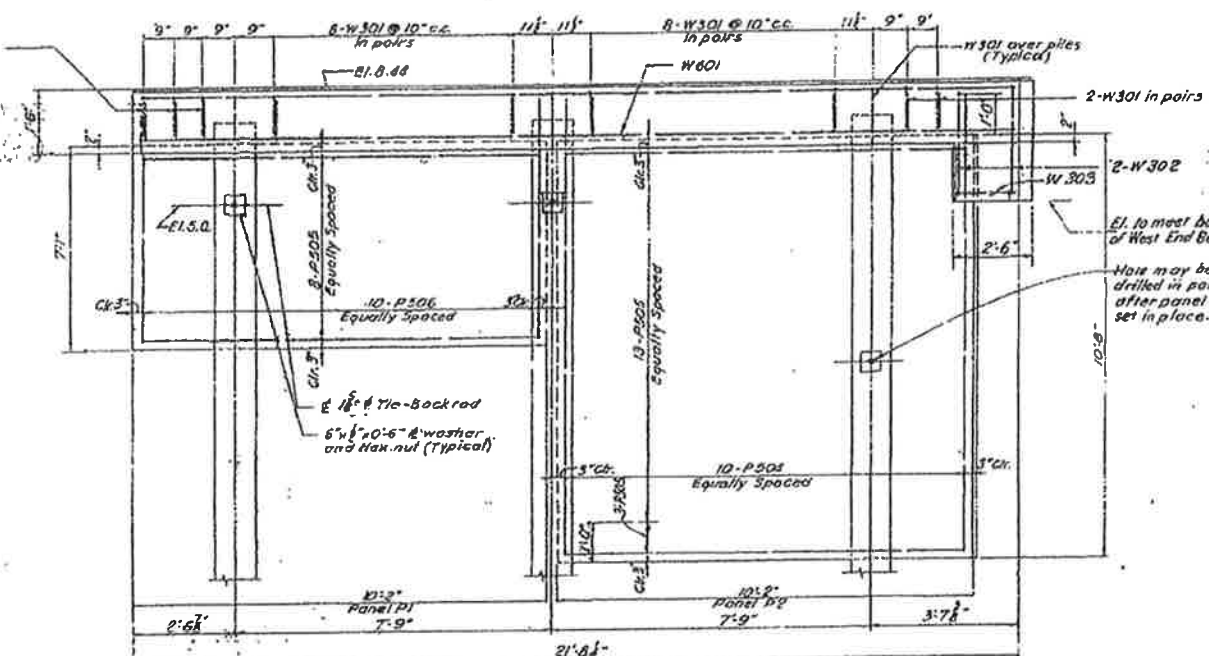
\* Tie-back rod is for back retaining walls.

Notes: (Unless otherwise noted)

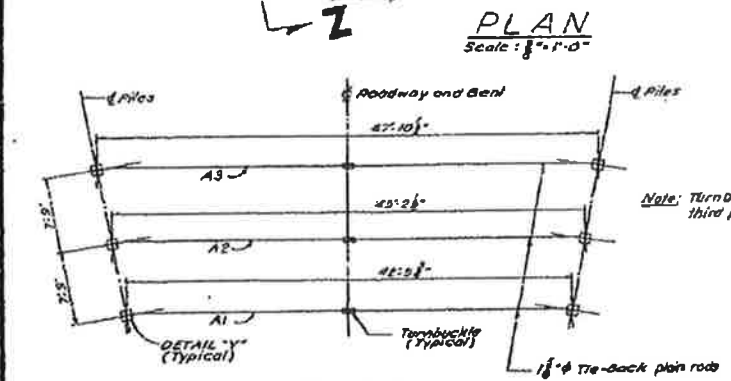
1. The Contractor shall share the tie-back rods as directed by the Engineer to prevent bowing during fill and compaction operations.



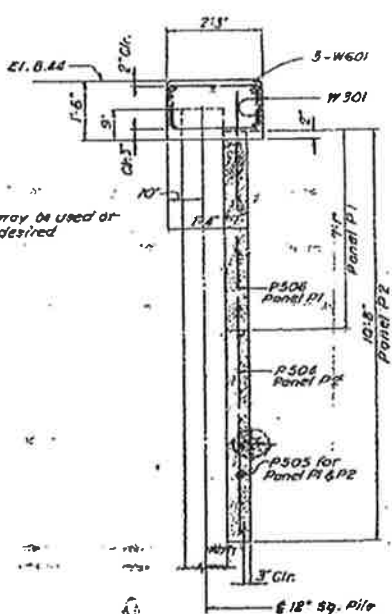
DETAIL X  
No Scale



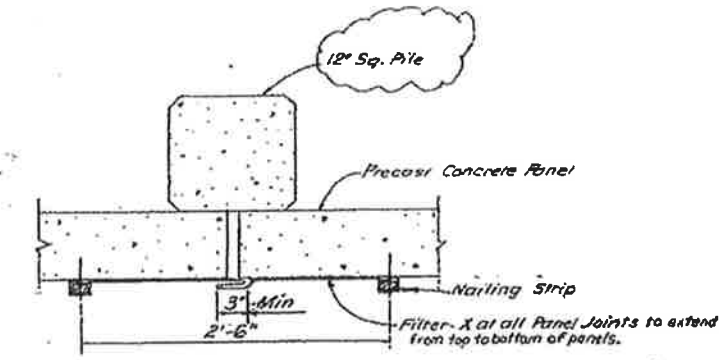
ELEVATION ZZ  
Scale: 1/4" = 1'-0"



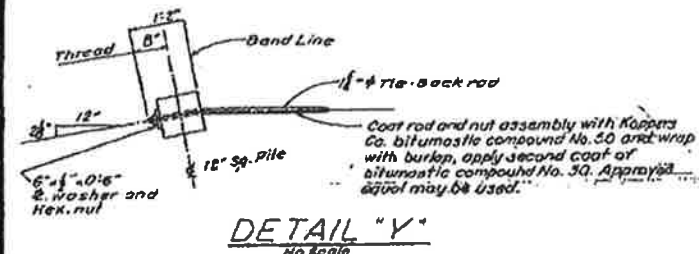
PLAN  
TIE-BACK ROD LOCATION  
No Scale



SECTION AA  
Scale: 1/4" = 1'-0"



FILTER-X DETAIL  
No Scale



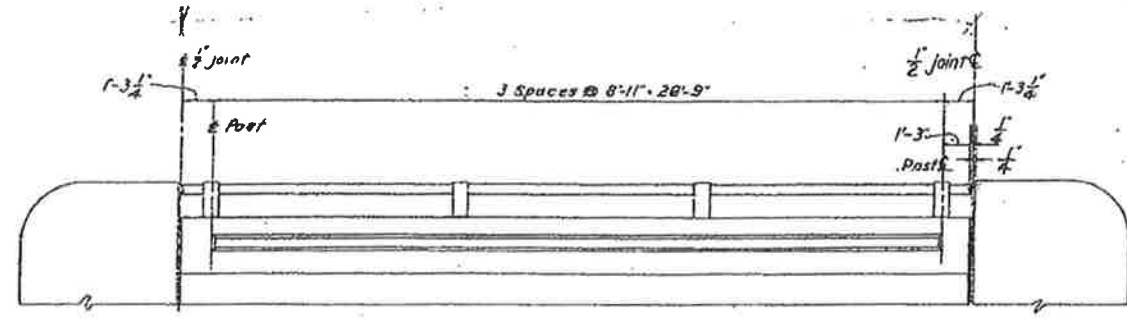
DETAIL "Y"  
No Scale

## DADE COUNTY PUBLIC WORKS DEPARTMENT ENGINEERING DIVISION

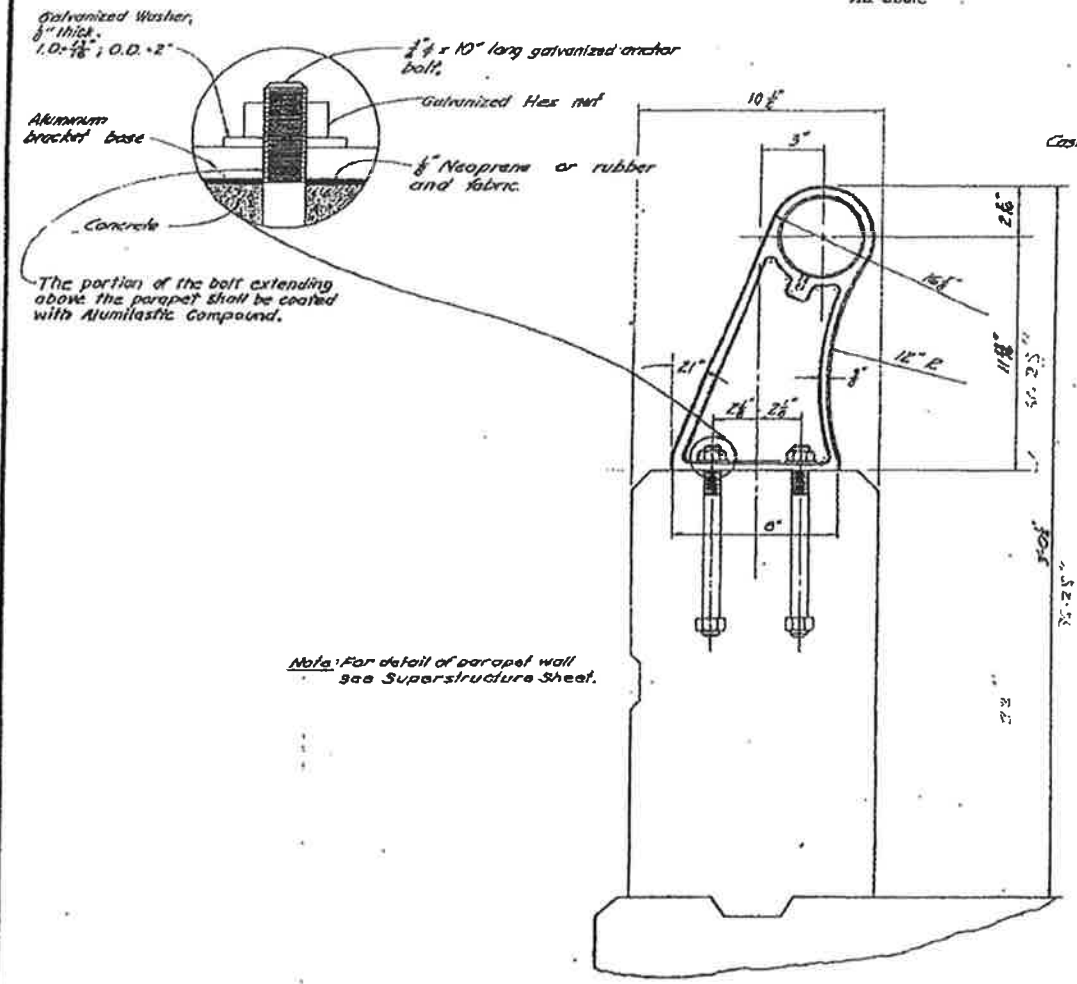
DESIGN: M.W. Riland  
DRAWN: J.T. Amodeo  
CHECK: J.L. Brown  
PROPOSED: J.L. Brown  
RECOMMENDED: J.L. Brown  
APPROVED: J.L. Brown

RETAINING WALL  
CARIBBEAN BLVD. BRIDGE  
OVER  
BEL-AIRE CANAL

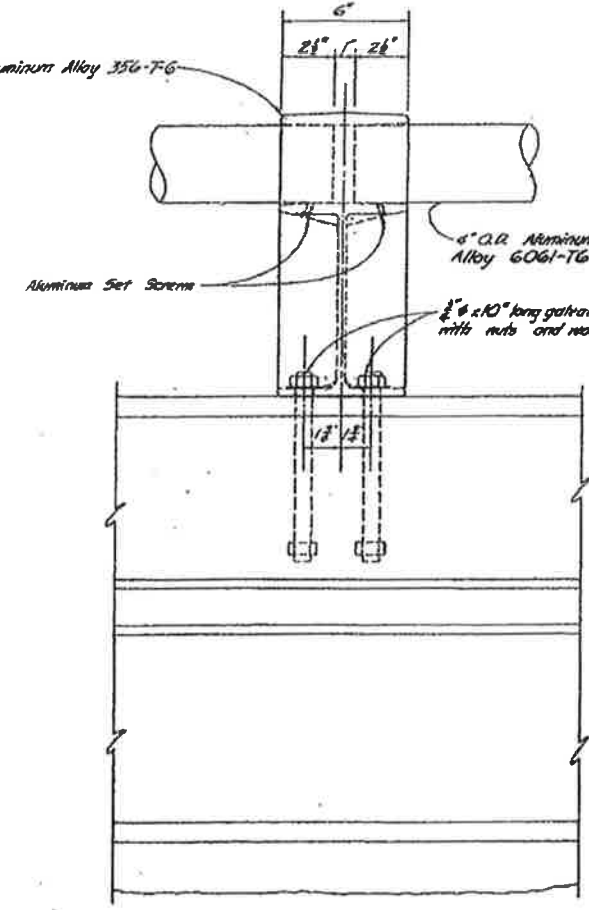
REVISION	DATE	DESCRIPTION	BY
	APRIL 1963		



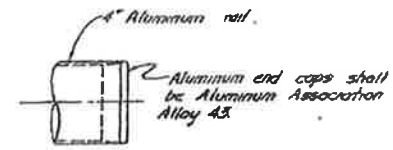
**ELEVATION**  
No Scale



**HANDRAIL DETAIL**  
Scale: 3/4"=1'-0"



**END CAP DETAIL**  
Scale: 3/4"=1'-0"



- Notes (Unless otherwise noted)**
1. Cast post to be Alcoa No. 1003 Alloy 356-T6 as shown here, or equal subject to approval by the Engineer.
  2. Rails to be Aluminum Alloy 6061-T6, sizes as shown, with minimum wall thickness of 3/8".
  3. Anchor bolts, nuts and washers shall be hot dipped galvanized in accordance with ASTM specification designation A-153.
  4. Drill 3/8" diam holes in bottom of pipe handrails, approximately midway between posts.
  5. All aluminum handrail posts shall be coated on 3/4" x 6" x 9" neoprene pads or rubber and fabric.
  6. Rails, posts and all parts of handrail assembly to be free from all dirt, grease and foreign material and to be thoroughly cleaned before final acceptance.
  7. Rail and caps to be flush fitted.
  8. Handrail shall be paid for per linear foot. Handrail shall be measured along a rail and end posts with no deductions for open joints.
  9. Shop Drawings showing complete details of the proposed handrail shall be submitted by the Contractor for approval by the Engineer. Installation of the railing shall be in accordance with Manufacturer's recommendations.

Note: For detail of parapet wall see Superstructure Sheet.

DADE COUNTY PUBLIC WORKS DEPARTMENT			
ENGINEERING DIVISION			
DESIGN	M. R. Rinaldi	<b>HANDRAIL DETAILS</b>	
DRAWN	R. Rinaldi	<b>CARIBBEAN BLVD. BRIDGE</b>	
CHECK	J. Brown	<b>OVER</b>	
PROPOSED	J. Brown	<b>BEL-AIRE CANAL</b>	
APPROVED	J. Brown	DATE	APRIL 1963
REVISION	DATE	DESCRIPTION	BY
1	APRIL 1963	3205	17 OF 17