

CONTRACT PLANS COMPONENTS

STRUCTURES

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

STRUCTURE PLANS

FINANCIAL PROJECT ID 451280-1-52-01

SARASOTA COUNTY (17080000)

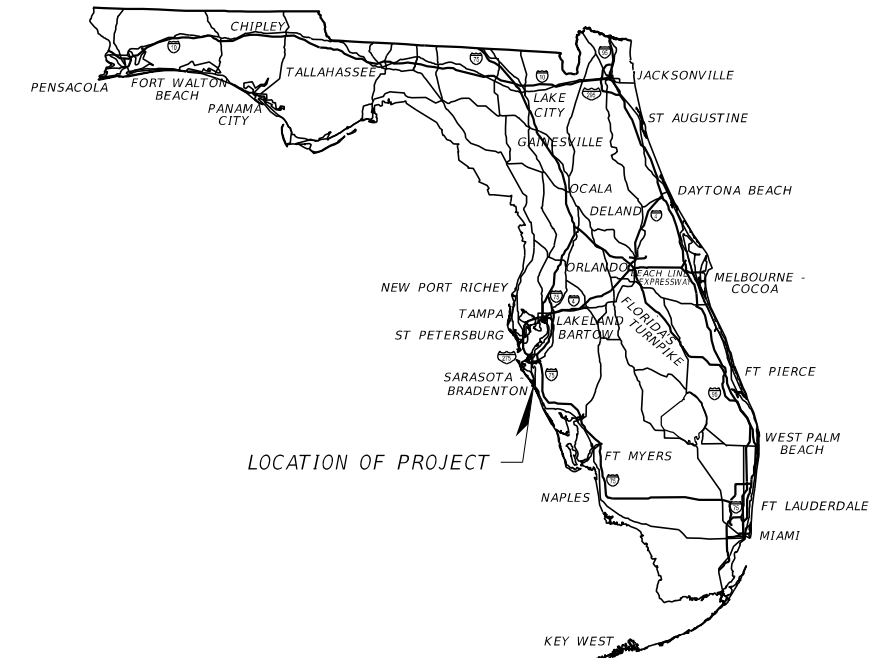
SR 758 OVER SARASOTA BAY (BR. NO. 170061)

BRIDGE REPAIRS

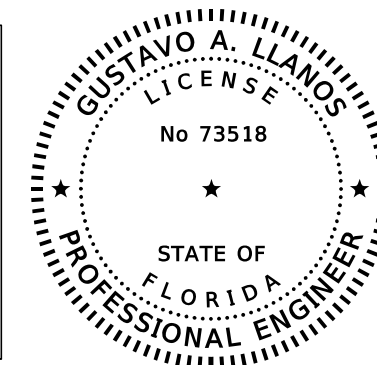
PHASE II (60%) SUBMITTAL
PLANS DATE: 12/16/2024

INDEX OF STRUCTURE PLANS

SEE SHEET B1-4 FOR INDEX OF DRAWINGS



PROJECT LOCATION URL:	https://tinyurl.com/2wu85ate
PROJECT LIMITS:	BEGIN MP 4.513 - END MP 4.754
EXCEPTIONS:	NONE
BRIDGE LIMITS:	BR#170061 MP 4.513 - MP 4.754
RAILROAD CROSSING:	NONE



**STRUCTURE PLANS
ENGINEER OF RECORD:**

GUSTAVO A. LLANOS, P.E.
P.E. NO.: 73518
BCC ENGINEERING, LLC.
4905 W. LAUREL STREET, SUITE 301
TAMPA, FL 33607
(813) 637-0000
CONTRACT NO.: CAR31
VENDOR NO.: 65-0540100

FDOT PROJECT MANAGER:

MICHAEL RIMA, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
XXXXX	26	B1-1

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

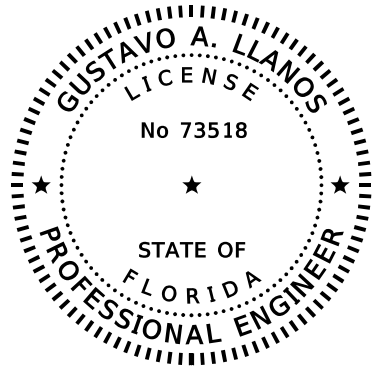
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs: N/A

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

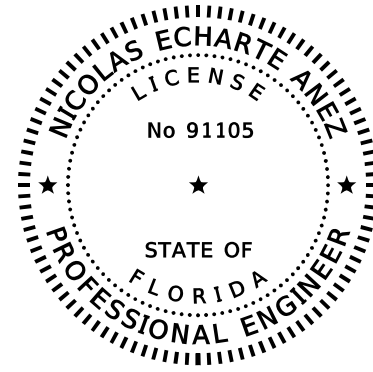
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BCC ENGINEERING, LLC.
4905 W. LAUREL STREET, SUITE 301
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION NO. 7184
GUSTAVO A. LLANOS, P.E. NO. 73518

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

STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B1-1	KEY SHEET
B1-2	SIGNATURE SHEET (1 OF 2)
B1-4	INDEX OF SHEETS
B1-5	GENERAL NOTES (1 OF 6)
B1-6	GENERAL NOTES (2 OF 6)
B1-7	GENERAL NOTES (3 OF 6)
B1-8	GENERAL NOTES (4 OF 6)
B1-11	PLAN AND ELEVATION
B1-12	APPROACH SPAN ELEMENT NUMBERING AND NOMENCLATURE
B1-13	REPAIR TYPE ILLUSTRATION (1 OF 3)
B1-14	REPAIR TYPE ILLUSTRATION (2 OF 3)
B1-15	REPAIR TYPE ILLUSTRATION (3 OF 3)
B1-19	REPAIR SCHEDULE B (1 OF 4)
B1-20	REPAIR SCHEDULE B (2 OF 4)
B1-21	REPAIR SCHEDULE B (3 OF 4)
B1-22	REPAIR SCHEDULE B (4 OF 4)
B1-23	REPAIR SCHEDULE C (1 OF 5)
B1-24	REPAIR SCHEDULE C (2 OF 5)
B1-25	REPAIR SCHEDULE C (3 OF 5)
B1-26	REPAIR SCHEDULE C (4 OF 5)
B1-27	REPAIR SCHEDULE C (5 OF 5)
B1-28	SPALL / DELAMINATION REPAIR DETAILS (1 OF 2)
B1-29	SPALL / DELAMINATION REPAIR DETAILS (2 OF 2)
B1-30	CRACK REPAIR DETAILS



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

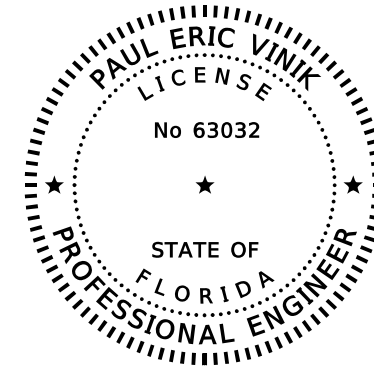
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BCC ENGINEERING, LLC.
4905 W. LAUREL STREET, SUITE 301
TAMPA, FL 33607
CERTIFICATE OF AUTHORIZATION NO. 7184
NICOLAS ECHARTE ANEZ, P.E. NO. 91105

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

STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B1-2	SIGNATURE SHEET (1 OF 2)
B1-34	TRAFFIC CONTROL 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.

GREENMAN-PEDERSEN, LLC.
1051 WINDERLEY PLACE, SUITE 400
MAITLAND, FL 32751
PAUL ERICK VINIK, P.E. NO. 63032

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

STRUCTURE PLANS

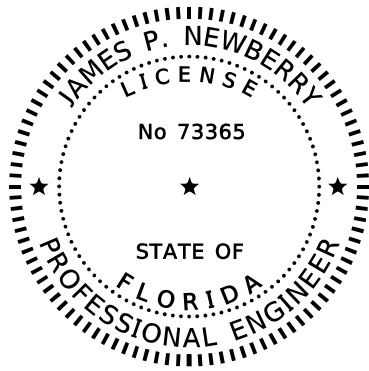
SHEET NO.	SHEET DESCRIPTION
B1-2	SIGNATURE SHEET (1 OF 2)
B1-9	GENERAL NOTES (5 OF 6)
B1-10	GENERAL NOTES (6 OF 6)
B1-16	REPAIR SCHEDULE A (1 OF 3)
B1-17	REPAIR SCHEDULE A (2 OF 3)
B1-18	REPAIR SCHEDULE A (3 OF 3)
B1-31	CATHODIC PROTECTION PILE JACKET ELEVATION
B1-32	CATHODIC PROTECTION PILE JACKET DETAIL (1 OF 2)
B1-33	CATHODIC PROTECTION PILE JACKET DETAIL (2 OF 2)

BRIDGE NO. 170061

12/13/2024 3:59:41 PM amanzur c:\bms\bcc-pw-01\alex manzur\0255256\SIG\ST01.dgn

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SIGNATURE SHEET (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-2

GUSTAVO A. LLANOS, P.E.
P.E. LICENSE NUMBER 73518
BCC ENGINEERING, LLC
4905 WEST LAUREL STREET, SUITE 301
TAMPA, FL 33607



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.

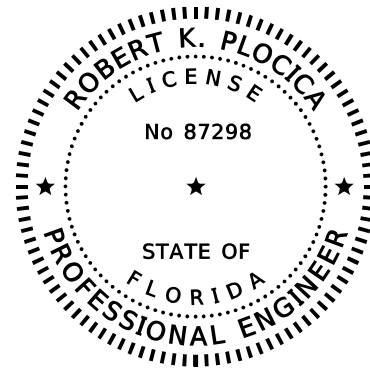
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634
JAMES P. NEWBERRY, P.E. NO. 73365

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

SHEET NO.	DWG NO.	SHEET DESCRIPTION
B1-3		SIGNATURE SHEET (2 OF 2)
B1-35	BP-1	BASCULE PIER NOTES
B1-36	BP-2	BASCULE PIER 9 - NORTH AND WEST ELEVATIONS
B1-37	BP-3	BASCULE PIER 9 - SOUTH AND EAST ELEVATIONS
B1-38	BP-4	BASCULE PIER 10 - NORTH AND WEST ELEVATIONS
B1-39	BP-5	BASCULE PIER 10 - SOUTH AND EAST ELEVATIONS
B1-40	BL-1	BASCULE LEAF NOTES
B1-41	BL-2	BASCULE SPAN PLAN AND ELEVATION
B1-42	BL-3	BASCULE LEAF TRANSVERSE SECTIONS
B1-43	BL-4	BASCULE LEAF DECK PLAN (1 OF 2)
B1-44	BL-5	BASCULE LEAF DECK PLAN (2 OF 2)
B1-45	BL-6	BASCULE LEAF GRID DECK DETAILS (1 OF 2)
* B1-46	BL-7	BASCULE LEAF GRID DECK DETAILS (2 OF 2)
* B1-47	BL-8	BASCULE LEAF SPAN LOCK PLATFORM DETAILS (1 OF 2)
* B1-48	BL-9	BASCULE LEAF SPAN LOCK PLATFORM DETAILS (2 OF 2)
* B1-49	BL-10	BASCULE LEAF BALANCE ADJUSTMENT

LEGEND

* SHEET NOT INCLUDED WITH THIS SUBMITTAL



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

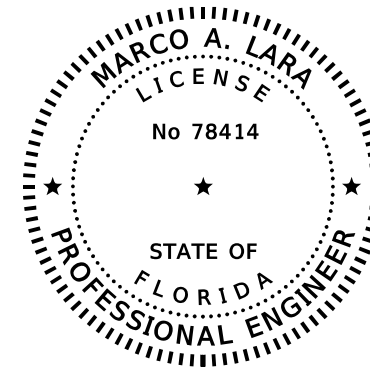
ON THE DATE ADJACENT TO THE SEAL

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

HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634
ROBERT K. PLOCICA, P.E. NO. 87298

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

SHEET NO.	DWG NO.	SHEET DESCRIPTION
B1-3		SIGNATURE SHEET (2 OF 2)
B1-50	BM-1	MECHANICAL GENERAL NOTES
B1-51	BM-2	SPAN DRIVE MACHINERY ELEVATION
B1-52	BM-3	SPAN DRIVE HYDRAULIC SCHEMATIC (1 OF 3)
B1-53	BM-4	SPAN DRIVE HYDRAULIC SCHEMATIC (2 OF 3)
B1-54	BM-5	SPAN DRIVE HYDRAULIC SCHEMATIC (3 OF 3)
B1-55	BM-6	SPAN LOCK ASSEMBLY
B1-56	BM-7	LIVE LOAD BEARING ASSEMBLY



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.

HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634
MARCO A. LARA, P.E. NO. 78414

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

SHEET NO.	DWG NO.	SHEET DESCRIPTION
B1-3		SIGNATURE SHEET (2 OF 2)
B1-57	BE-1	ELECTRICAL NOTES AND SCOPE OF WORK
B1-58	BE-2	ELECTRICAL SYMBOLS AND ABBREVIATIONS
B1-59	BE-3	ELECTRICAL PLAN AND ELEVATION
B1-60	BE-4	SINGLE LINE DIAGRAM
B1-61	BE-5	THREE LINE DIAGRAM
B1-62	BE-6	MOTOR CONTROL CENTER (MCC) LAYOUT
B1-63	BE-7	CONTROL CONSOLE LAYOUT
B1-64	BE-8	HYDRAULIC POWER UNIT CONTROL PANEL LAYOUT
B1-65	BE-9	CONTROL HOUSE ELECTRICAL PLAN
B1-66	BE-10	GENERATOR ROOM ELECTRICAL PLAN LAYOUT
B1-67	BE-11	NEAR BASCULE PIER ELECTRICAL PLAN LAYOUT
B1-68	BE-12	FAR BASCULE PIER ELECTRICAL PLAN LAYOUT
B1-69	BE-13	NEAR BASCULE PIER LIGHTING PLAN LAYOUT
B1-70	BE-14	FAR BASCULE PIER LIGHTING PLAN LAYOUT
B1-71	BE-15	NAVIGATION LIGHTING PLAN AND DETAILS
B1-72	BE-16	MISCELLANEOUS ELECTRICAL DETAILS
B1-73	BE-17	COMMUNICATIONS DIAGRAM
B1-74	BE-18	CONDUIT RISER DIAGRAM
B1-75	BE-19	CONDUIT AND CABLE SCHEDULE

BRIDGE NO. 170061

REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: SIGNATURE SHEET (2 OF 2)	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: JPN 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-3
						DESIGNED BY: QPO 12-24	758	SARASOTA	451280-1-52-01		
						CHECKED BY: JPN 12-24					

60% SUBMITTAL
SUBJECT TO CHANGE

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

SR 758 OVER SARASOTA BAY
(BRIDGE NO. 170061)

SR 758 OVER SARASOTA BAY (CONT'D.)
(BRIDGE NO. 170061)

EXISTING BRIDGE PLANS (BRIDGE NO. 170061)

SHEET NO.	SHEET DESCRIPTION
B1-1	KEY SHEET
B1-2	SIGNATURE SHEET (1 OF 2)
B1-3	SIGNATURE SHEET (2 OF 2)
B1-4	INDEX OF SHEETS
B1-5	GENERAL NOTES (1 OF 6)
B1-6	GENERAL NOTES (2 OF 6)
B1-7	GENERAL NOTES (3 OF 6)
B1-8	GENERAL NOTES (4 OF 6)
B1-9	GENERAL NOTES (5 OF 6)
B1-10	GENERAL NOTES (6 OF 6)
B1-11	PLAN AND ELEVATION
B1-12	APPROACH SPAN ELEMENT NUMBERING AND NOMENCLATURE
B1-13	REPAIR TYPE ILLUSTRATION (1 OF 3)
B1-14	REPAIR TYPE ILLUSTRATION (2 OF 3)
B1-15	REPAIR TYPE ILLUSTRATION (3 OF 3)
B1-16	REPAIR SCHEDULE A (1 OF 3)
B1-17	REPAIR SCHEDULE A (2 OF 3)
B1-18	REPAIR SCHEDULE A (3 OF 3)
B1-19	REPAIR SCHEDULE B (1 OF 4)
B1-20	REPAIR SCHEDULE B (2 OF 4)
B1-21	REPAIR SCHEDULE B (3 OF 4)
B1-22	REPAIR SCHEDULE B (4 OF 4)
B1-23	REPAIR SCHEDULE C (1 OF 5)
B1-24	REPAIR SCHEDULE C (2 OF 5)
B1-25	REPAIR SCHEDULE C (3 OF 5)
B1-26	REPAIR SCHEDULE C (4 OF 5)
B1-27	REPAIR SCHEDULE C (5 OF 5)
B1-28	SPALL / DELAMINATION REPAIR DETAILS (1 OF 2)
B1-29	SPALL / DELAMINATION REPAIR DETAILS (2 OF 2)
B1-30	CRACK REPAIR DETAILS
B1-31	CATHODIC PROTECTION PILE JACKET ELEVATION
B1-32	CATHODIC PROTECTION PILE JACKET DETAIL (1 OF 2)
B1-33	CATHODIC PROTECTION PILE JACKET DETAIL (2 OF 2)
B1-34	TRAFFIC CONTROL PLANS

SHEET NO.	SHEET DESCRIPTION
B1-35	BASCULE PIER NOTES
B1-36	BASCULE PIER 9 - NORTH AND WEST ELEVATIONS
B1-37	BASCULE PIER 9 - SOUTH AND EAST ELEVATIONS
B1-38	BASCULE PIER 10 - NORTH AND WEST ELEVATIONS
B1-39	BASCULE PIER 10 - SOUTH AND EAST ELEVATIONS
B1-40	BASCULE LEAF NOTES
B1-41	BASCULE SPAN PLAN AND ELEVATION
B1-42	BASCULE LEAF TRANSVERSE SECTIONS
B1-43	BASCULE LEAF DECK PLAN (1 OF 2)
B1-44	BASCULE LEAF DECK PLAN (2 OF 2)
B1-45	BASCULE LEAF GRID DECK DETAILS (1 OF 2)
* B1-46	BASCULE LEAF GRID DECK DETAILS (2 OF 2)
* B1-47	BASCULE LEAF SPAN LOCK PLATFORM DETAILS (1 OF 2)
* B1-48	BASCULE LEAF SPAN LOCK PLATFORM DETAILS (2 OF 2)
* B1-49	BASCULE LEAF BALANCE ADJUSTMENT
B1-50	MECHANICAL GENERAL NOTES
B1-51	SPAN DRIVE MACHINERY ELEVATION
B1-52	SPAN DRIVE HYDRAULIC SCHEMATIC (1 OF 3)
B1-53	SPAN DRIVE HYDRAULIC SCHEMATIC (2 OF 3)
B1-54	SPAN DRIVE HYDRAULIC SCHEMATIC (3 OF 3)
B1-55	SPAN LOCK ASSEMBLY
B1-56	LIVE LOAD BEARING ASSEMBLY
B1-57	ELECTRICAL NOTES AND SCOPE OF WORK
B1-58	ELECTRICAL SYMBOLS AND ABBREVIATIONS
B1-59	ELECTRICAL PLAN AND ELEVATION
B1-60	SINGLE LINE DIAGRAM
B1-61	THREE LINE DIAGRAM
B1-62	MOTOR CONTROL CENTER (MCC) LAYOUT
B1-63	CONTROL CONSOLE LAYOUT
B1-64	HYDRAULIC POWER UNIT CONTROL PANEL LAYOUT
B1-65	CONTROL HOUSE ELECTRICAL PLAN
B1-66	GENERATOR ROOM ELECTRICAL PLAN LAYOUT
B1-67	NEAR BASCULE PIER ELECTRICAL PLAN LAYOUT
B1-68	FAR BASCULE PIER ELECTRICAL PLAN LAYOUT
B1-69	NEAR BASCULE PIER LIGHTING PLAN LAYOUT
B1-70	FAR BASCULE PIER LIGHTING PLAN LAYOUT
B1-71	NAVIGATION LIGHTING PLAN AND DETAILS
B1-72	MISCELLANEOUS ELECTRICAL DETAILS
B1-73	COMMUNICATIONS DIAGRAM
B1-74	CONDUIT RISER DIAGRAM
B1-75	CONDUIT AND CABLE SCHEDULE

SHEET NO.	SHEET DESCRIPTION
BX-1	EXISTING BRIDGE PLANS
THRU	
BX-311	

* SHEETS ARE NOT INCLUDED IN THIS SUBMITTAL.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: INDEX OF SHEETS	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-4	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>												

12/13/2024 3:59:48 PM amanzur c:\bms\bcc-pw-01\alex manzur\0255256\00Index01.dgn

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

GENERAL NOTES

GN.01 PURPOSE

- A. THE INTENT OF THE PROJECT IS TO COMPLETE REPAIRS ON BRIDGE NO. 170061 IN ACCORDANCE WITH THE PROVISIONS OF THE PLANS AND SPECIFICATIONS AND TECHNICAL SPECIAL PROVISIONS REFERENCED THEREIN.

GN.02 GOVERNING CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS

- A. CONSTRUCTION SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, FY 2024-25 EXCEPT AS SUPPLEMENTED OR AMENDED BY THE CONTRACT DOCUMENTS.
- B. STANDARD PLANS: FLORIDA DEPARTMENT OF TRANSPORTATION FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS) EXCEPT AS SUPPLEMENTED OR AMENDED BY THE CONTRACT DOCUMENTS.

GN.03 DESIGN CRITERIA AND SPECIFICATIONS

- A. FDOT STRUCTURES MANUAL DATED JANUARY 2024 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.
- B. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.
- C. FDOT DESIGN MANUAL DATED 2024 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.
- D. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) MANUAL FOR BRIDGE EVALUATION (MBE), 3RD EDITION, 2018, AND INTERIM REVISIONS THERETO.
- E. FDOT BRIDGE LOAD RATING MANUAL, 2023.

GN.04 LANGUAGE AND TERMS

- A. THE TERM "PROVIDE" AS USED IN THE PLANS INDICATES THAT THE CONTRACTOR IS TO "FURNISH AND INSTALL".
- B. THE TERM "REPLACE" AS USED IN THE PLANS INDICATES THAT THE CONTRACTOR IS TO "REMOVE AND FURNISH AND INSTALL WITH NEW".
- C. THE TERMS "PLANS" AND "DRAWINGS" ARE USED INTERCHANGEABLY HEREIN.
- D. THE TERMS "SEABOTTOM", "SEA BOTTOM", "SEABED" AND "MUDLINE" ARE USED INTERCHANGEABLY HEREIN.

GN.05 VERTICAL DATUM

- A. ELEVATIONS ARE BASED ON EXISTING PLANS OF ORIGINAL CONSTRUCTION CIRCA 1972.
- B. ORIGINAL CONSTRUCTION CIRCA 1972: MEAN SEA LEVEL (M.S.L.) ELEV 0.00.
 - 1. MEAN HIGH WATER (M.H.W.) ELEVATION: ELEV +1.5
 - 2. MEAN LOW WATER (M.L.W.) ELEVATION: ELEV (-) 0.6

GN.06 ENVIRONMENT

- A. SUPERSTRUCTURE: EXTREMELY AGGRESSIVE
- B. SUBSTRUCTURE: EXTREMELY AGGRESSIVE

GN.07 UTILITIES

- A. ALL EXISTING UTILITIES ARE TO REMAIN UNLESS OTHERWISE NOTED.
- B. VERIFY ALL UTILITIES PRIOR TO STARTING WORK.
- C. DO NOT DISTURB OR ENDANGER UTILITY FACILITIES.
- D. REFERENCE TABLE GN.07.A HEREIN FOR UTILITY COMPANIES AND CONTACTS THAT HAVE BEEN IDENTIFIED NEAR THE BRIDGE SITE.

TABLE GN.07.A UTILITY AGENCY OWNERS			
UTILITY AGENCY OWNER	CONTACT	TELEPHONE NUMBER	E-MAIL

GN.08 CONCRETE REPAIR AND RESTORATION MATERIALS

- A. REINFORCING STEEL: GRADE 60 CARBON STEEL PER STANDARD SPECIFICATIONS SECTION 931.
- B. CONCRETE FOR FORMED REPAIRS: TBD (PLANS SPECIFIED AND/OR TSP)
- C. CONCRETE FOR TROWELED REPAIRS: TBD (PLANS SPECIFIED AND/OR TSP)
- D. CONCRETE FOR PILE JACKET INSTALLATIONS: TBD (PLANS SPECIFIED AND/OR TSP)
- E. PILE JACKETS: TBD (PLANS SPECIFIED AND/OR TSP)
- F. EMBEDDED ANODES: TBD (PLANS SPECIFIED AND/OR TSP)

GN.09 CONCRETE CONSTRUCTION

- A. REINFORCEMENT COVER: MAINTAIN EXISTING CONCRETE COVER UNLESS OTHERWISE NOTED HEREIN OR PERMITTED BY THE ENGINEER.
- B. CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER"; REFERENCE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES.
- C. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSION IS NOTED TO FACE OF CONCRETE.

GN.10 PLAN DIMENSIONS

- A. THE DETAILS ON THE DRAWINGS INDICATE THE LIMITS OF REMOVAL AND REPAIR BASED ON THE BRIDGE INSPECTION REPORT DATED 08/17/23 AND LIMITED FIELD OBSERVATIONS PERFORMED IN AUGUST 2024. THE REMOVAL AND REPAIR LIMITS SHOWN IN THE CONTRACT PLANS INDICATE APPROXIMATE REMOVAL AND REPAIR LIMITS BASED ON THE CONDITION OF THE STRUCTURE AT THE TIME OF THE INSPECTIONS/OBSERVATIONS.
- B. ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- C. DIMENSION VERIFICATION: UNLESS OTHERWISE NOTED, THE DIMENSIONS, ELEVATIONS AND INTERSECTING ANGLES SHOWN ARE BASED ON THE INFORMATION AS DETAILED IN THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE AND MAY NOT REPRESENT AS-BUILT CONDITIONS; IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS DATA BEFORE BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ALL DISCREPANCIES.

BRIDGE NO. 170061

12/13/2024 3:59:55 PM amanzur c:\bms\lcc-pw-01\alex_manzur\0253256\B\GeneralNotes01.dgn

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: GENERAL NOTES (1 OF 6)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
<div style="border: 2px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						DESIGNED BY: WEJ 12-24	ROAD NO.	PROJECT NAME:	SHEET NO.
						CHECKED BY: GAL 12-24	COUNTY	SR 758 OVER SARASOTA BAY	
							FINANCIAL PROJECT ID		
									B1-5

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

GENERAL NOTES (CONT'D.)

GN.11 ENVIRONMENTAL

A. WATER QUALITY:

1. THE PROJECT LIMITS ARE WITHIN THE WATERS OF SARASOTA BAY AND ROBERTS BAY OF THE SARASOTA BAY ESTUARINE SYSTEM, A WATERBODY LISTED AS A "SPECIAL WATER" OUTSTANDING FLORIDA WATER (OFW) UNDER THE PROVISIONS OF F.A.C. RULE NO. 62-302.700.
2. SCOPE OF WORK IS ADJACENT TO, OVER AND WITHIN THESE WATERS AND DEGRADATION OF WATER QUALITY, INCREASED TURBIDITY, AND/OR THE DISCHARGE OF FOREIGN MATERIAL INTO THESE WATERS IS NOT PERMITTED.
3. ERECT AND PROPERLY MAINTAIN FUNCTIONAL CONTROL MEASURES AND CONTAINMENT DEVICES, INCLUDING THE USE OF FLOATING TURBIDITY BARRIERS, CANVASES, TARPULINS, AND SCREENS, ETC., TO ISOLATE WORK AREAS AT ALL TIMES ASSOCIATED WITH THE SCOPE OF INDIVIDUAL WORK ACTIVITIES.

B. SEAGRASS:

1. SEAGRASS AND OTHER BENTHIC COMMUNITIES EXIST IN THE PROJECT AREA.
2. PREVENT CONTACT WITH THE SEABED IN THESE AREAS AND DISTURBANCE OF BOTTOM SEDIMENTS, E.G., ANCHORING OR SPUDDING OF BARGES AND OTHER STRUCTURES.
3. CONTRACTOR EQUIPMENT INCLUDING BUT NOT LIMITED TO FLOATING PLATFORMS, SCAFFOLDING, ETC. THAT MAY IMPART SHADING TO SEAGRASSES MAY NOT REMAIN IN ONE PLACE FOR A DURATION LONGER THAN TWO (2) WEEKS.
4. SPUDDING, ANCHORING OR GROUNDING BARGES, FLOATING OR FIXED PLATFORMS, OR OTHER SUPPORT VESSELS IN SEAGRASS HABITAT IS NOT PERMITTED.
5. BARGES, FLOATING PLATFORMS AND OTHER SUPPORT VESSELS SHOULD MAINTAIN AT LEAST A 12-INCH CLEARANCE FROM THE SEA BOTTOM TO ENSURE THAT NO IMPACT OCCURS TO SEAGRASS BEDS AND OTHER BENTHIC COMMUNITIES LOCATED IN THE PROJECT AREA.
6. PERFORM UNDERWATER SEAGRASS SURVEY AND MARK LIMITS WITH BUOYS PRIOR TO COMMENCING IN-WATER ACTIVITIES.

C. COMPLY WITH ALL FEDERAL AND STATE REQUIREMENTS REGARDING ENDANGERED AND THREATENED SPECIES AND STATE LISTED SPECIES OF SPECIAL CONCERN.

GN.12 MAINTENANCE OF NAVIGABLE CHANNEL TRAFFIC AND WATERWAY

- A. NOTIFY U.S. COAST GUARD (USCG) SECTOR ST. PETERSBURG WATERSWAY MANAGEMENT AND USCG DISTRICT SEVEN BRIDGE ADMINISTRATION VIA EMAIL AT LEAST 60 DAYS PRIOR TO THE START OF CONSTRUCTION AND AT LEAST 60 DAYS PRIOR TO ANY ANTICIPATED CHANNEL RESTRICTIONS.
- B. ALL CHANNEL RESTRICTIONS (HORIZONTAL OR VERTICAL) SHALL BE APPROVED BY THE USCG.

GN.12 MAINTENANCE OF NAVIGABLE CHANNEL TRAFFIC AND WATERWAY (CONT'D.)

- C. PROVIDE 30 DAYS OF ADVANCE NOTICE FOR ALL CHANNEL RESTRICTIONS (HORIZONTAL AND/OR VERTICAL) FOR APPROVAL BY THE USCG.
- D. PROVIDE AND MAINTAIN USCG COMPLIANT LIGHTING ON ALL IN-WATER CONSTRUCTION EQUIPMENT AND VESSELS DURING CONSTRUCTION.
- E. MARK ALL VESSELS IN-WATER IN ACCORDANCE WITH USCG NAVIGATION RULES.
- F. USCG CONTACT INFORMATION:
 1. USCG DISTRICT SEVEN BRIDGE ADMINISTRATION
 - a. MR. EDDIE LAWRENCE (305-415-6946) eddie.h.lawrence@uscg.mil)
 - b. MS. JENNIFER ZERCHER (571-607-5951) (TEAMS) (jennifer.n.zercher@uscg.mil)

GN.13 CONSTRUCTION STAGING AND STAGING AREAS

- A. UNLESS OTHERWISE PERMITTED BY THE DEPARTMENT, STAGING AREAS WITHIN DEPARTMENT RIGHT-OF-WAY WILL BE LIMITED TO THE UPLAND AREA OF THE DEPARTMENT RIGHT-WAY NORTH AND EAST OF END BRIDGE FOR APPROXIMATELY 275 FEET IN A DIRECTION PARALLEL TO BRIDGE AND APPROACH ROADWAY CENTERLINE; REMOVAL OF EXISTING VEGETATION (TREES, SHRUBBY, ETC.) OR DREDGING IN FRONT OF THE BULKHEAD TO FACILITATE ACCESS TO AND USE OF THE AREA BY THE CONTRACTOR WILL NOT BE PERMITTED; IF THE CONTRACTOR ELECTS TO UTILIZE THIS STAGING AREA, USE IS SUBJECT, AT MINIMUM, TO THE FOLLOWING STIPULATIONS:
 1. DEPLOYMENT OF ALL MEASURES REQUIRED TO PREVENT, BY EROSION OR DISPLACEMENT, NATIVE MATERIALS OR CONSTRUCTION MATERIALS AND DEBRIS FROM ENTERING INTO THE WATERWAY IN ACCORDANCE WITH THE PROVISIONS OF SECTION 104 OF THE STANDARD SPECIFICATIONS.
 2. CONSTRUCTION OF TREE PROTECTION BARRIERS IN ACCORDANCE WITH STANDARD PLANS INDEX 110-100 FOR ALL TREES LOCATED WITHIN THE PERMITTED STAGING AREA.
 3. RESTORATION OF THE STAGING AREA AND BULKHEAD STRUCTURE WITHIN THE STAGING AREA TO THE SAME, OR SUPERIOR, CONDITION WHICH EXISTED IMMEDIATELY PRIOR TO OCCUPATION OF THE STAGING AREA BY THE CONTRACTOR.
- B. NORA PATTERSON BAY ISLAND PARK (NORTH AND SOUTH), NORTH BRIDGE OUTLOOK PARK, AND PHILLIPPI CREEK TRAIL ARE LOCATED ADJACENT TO OR IN THE VICINITY OF THE PROJECT LIMITS; DO NOT CONDUCT CONSTRUCTION RELATED ACTIVITIES INCLUDING BUT NOT LIMITED TO CONSTRUCTION, STAGING, ETC. WITHIN THE LIMITS OF THESE RESOURCES.
- C. THE DEPARTMENT, AT ITS SOLE DISCRETION, MAY ALLOW CONDITIONAL STAGING FOR THIS PROJECT OUTSIDE OF THE PROJECT LIMITS WITHIN DEPARTMENT RIGHT-OF-WAY; IF AUTHORIZED, THE CONTRACTOR WILL BE REQUIRED TO SIGN A PROPERTY HANDOVER REPORT, PROVIDE ADDITIONAL COVERAGE TO THE DEPARTMENT, AND RESTORE THE SUBJECT AREA AS REQUIRED.
- D. SECURE BARGES, FLOATING PLATFORMS, SUPPORT VESSELS AND EQUIPMENT AWAY FROM BRIDGE DURING SEVERE WEATHER.

GN.14 DEBRIS CONTAINMENT

- A. DURING ALL CONSTRUCTION OPERATIONS, PROVIDE PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE AND CONTAINMENT DEVICES TO PRECLUDE DEMOLISHED CONCRETE DEBRIS, CONCRETE REPAIR MATERIALS, OR OTHER DEBRIS OR MATERIALS FROM FALLING INTO THE WATERWAY.
- B. FOR ACTIVITIES ASSOCIATED WITH COATING REPAIRS AND RESTORATION, COMPLY WITH THE CONTAINMENT PROVISIONS OF STANDARD SPECIFICATIONS SECTION 561, COATING EXISTING STRUCTURAL STEEL, AND THE REQUIREMENTS STATED ELSEWHERE HEREIN.
- C. IF THE ENGINEER DETERMINES WITH NOTIFICATION THAT ADEQUATE PROTECTIVE DEVICES ARE NOT DEPLOYED TO PRECLUDE DEBRIS AND OTHER MATERIALS FROM FALLING INTO THE WATERWAY AS REQUIRED ABOVE, IMMEDIATELY SUSPEND THE ASSOCIATED WORK UNTIL SUCH TIME, IN THE OPINION OF THE ENGINEER, THAT ADEQUATE PROTECTIVE DEVICES ARE DEPLOYED.

GN.15 DISPOSITION OF SPOIL MATERIAL

- A. NO SPOIL AREA IS AVAILABLE FOR THIS CONTRACT WITHIN THE DEPARTMENT'S RIGHT-OF-WAY; REMOVE ALL SPOIL MATERIAL (DEMOLISHED CONCRETE AND REINFORCING STEEL, EXCESS MATERIALS, CONSTRUCTION WASTE ETC.) FROM THE DEPARTMENT'S RIGHT-OF-WAY AND DISPOSE OF IN ACCORDANCE WITH REGULATORY REQUIREMENTS.
- B. INTERIM TEMPORARY STORAGE OF SPOIL MATERIALS FOR SUBSEQUENT REQUIRED REMOVAL WILL NOT BE PERMITTED WITHIN DEPARTMENT RIGHT-OF-WAY UPLAND OF THE WEST BULKHEAD.
- C. INTERIM TEMPORARY STORAGE OF SPOIL MATERIALS FOR SUBSEQUENT REQUIRED REMOVAL WILL NOT BE PERMITTED WITHIN DEPARTMENT RIGHT-OF-WAY UPLAND OF THE EAST BULKHEAD, EXCEPT AS PROVIDED FOR HEREIN.
- D. INTERIM TEMPORARY STORAGE OF SPOIL MATERIALS FOR SUBSEQUENT REQUIRED REMOVAL WILL BE PERMITTED WITHIN THE UPLAND STAGING AREA OF THE DEPARTMENT RIGHT-WAY NORTH AND EAST OF END BRIDGE AS DEFINED IN THE NOTES FOR CONSTRUCTION STAGING AREAS HEREIN.
- E. WHERE PERMITTED, STORE AND CONTAIN SPOIL MATERIALS IN STEEL CONSTRUCTION DUMPSTERS PRIOR TO REMOVAL FROM DEPARTMENT RIGHT -OF-WAY; TEMPORARY STORAGE OF SPOIL MATERIALS DIRECTLY ON GROUND, PAVEMENT, OR STRUCTURE SURFACES WILL NOT BE PERMITTED.
- F. REMOVE ALL SPOIL MATERIALS FROM DEPARTMENT RIGHT-OF-WAY WITHIN 24 HOURS OF NOTICE OF A TROPICAL STORM WATCH FOR THE AREA ENCOMPASSING THE BRIDGE; DO NOT PERMIT FURTHER STORAGE OF SPOIL MATERIAL FOR THE DURATION OF ALL SUBSEQUENT WATCHES AND WARNINGS ASSOCIATED WITH THE INITIAL TROPICAL STORM WATCH.

BRIDGE NO. 170061

12/13/2024 3:59:56 PM amanazur c:\bms\lcc-pw-01\alex_manzur\0253256\B\GeneralNotes01.dgn

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (2 OF 6)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	DESIGNED BY: WEJ 12-24	SR 758	SARASOTA	451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-6
						CHECKED BY: GAL 12-24					

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

GENERAL NOTES (CONT'D.)

GN.16 ENGINEER INSPECTION ACCESS:

- A. GENERAL: PROVIDE THE ENGINEER SAFE ACCESS FOR INSPECTION OF THE WORK AT ALL TIMES.
- B. ACCESS INCLUDES, BUT IS NOT LIMITED TO, LADDERS, SCAFFOLDING, MAN-LIFTS, SNOOPER EQUIPMENT WITH OPERATORS, AND INSPECTION BOAT WITH OPERATOR.
- C. DURATION OF AVAILABILITY: SAFE ACCESS SHALL REMAIN IN AVAILABLE AND IN PLACE UNTIL THE ENGINEER COMPLETES ALL NECESSARY INSPECTIONS, INCLUDING POST CORRECTIVE ACTION INSPECTIONS IF REQUIRED.

GN.17 EXISTING FEATURES

- A. UNLESS OTHERWISE NOTED, ALL EXISTING PROJECT FEATURES, STRUCTURES, AND BRIDGE APPURTENANCES ARE TO REMAIN, INCLUDING, BUT NOT LIMITED TO, UTILITIES, GUARDRAIL, WALLS, ITS, SIGNING, PAVEMENT MARKINGS, DRAINAGE, MARKERS, ETC.

BRIDGE NO. 170061

REVISIONS					DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (3 OF 6)	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:	SHEET NO.
		<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>			GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607			SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-7

GENERAL NOTES (CONT'D.)

CONCRETE REPAIRS - CATERGORIES AND TYPES

CR-01 CATEGORY 1 - PRECAST PRESTRESSED CONCRETE PILE CATHODIC PROTECTION JACKETS

A. TYPE 1: GALVANIC CATHODIC PROTECTION PILE JACKET

1. LEAD TECHNICAL SPECIFICATION: TSP SECTION T457, GALVANIC CATHODIC PROTECTION JACKETS.
2. TYPE: STRUCTURAL.
3. PAY ITEM NO. 457-2-221, CATHODIC PROTECTION INTEGRAL PILE JACKET, STRUCTURAL, 16.1-30", GALVANIC SYSTEM.
4. PROJECT PROPOSED LOCATIONS FOR USE:
 - a. SUBSTRUCTURE BENT PILES

B. WHERE INSTALLATION OF SPECIFIED PILE JACKET LENGTH WILL REQUIRE EXCAVATION BELOW THE MUDLINE, NOTIFY ENGINEER AND REQUEST PILE JACKET LENGTH OR POSITION ADJUSTMENT; THE INTENT OF THE PLANS IS THAT THE BOTTOM ELEVATION OF ALL PILE JACKETS WILL BE LOCATED ABOVE THE MUDLINE ELEVATION AND EXCAVATION FOR INSTALLATION WILL NOT BE REQUIRED.

CR-02 CATEGORY 2 - CONCRETE SPALL/DELAMINATION AND CRACK REPAIRS

A. TYPE 2: SPALL/DELAMINATION REPAIR - STANDALONE

1. LEAD TECHNICAL SPECIFICATION: TSP SECTION T401, RESTORING SPALLED CONCRETE.
2. MATERIAL: POLYMER-MODIFIED PORTLAND CEMENT MORTAR/CONCRETE; STYRENE-BUTADIENE FORMULATION.
3. CATHODIC PROTECTION: WORK STANDALONE WITH NO CATHODIC PROTECTION MEASURE.
4. PAY ITEM NO. 401-70-2, RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- STYRENE BUTADIENE, PER CUBIC FOOT.
5. PROJECT PROPOSED LOCATIONS FOR USE:
 - a. BULKHEAD CAPS AND PILES
 - b. SUBSTRUCTURE BENT CAPS
 - c. SUBSTRUCTURE BASCULE PIERS
 - d. SUPERSTRUCTURE DECK, BEAMS, DIAPHRAGMS, AND RAILINGS

CR-02 CATEGORY 2 - CONCRETE SPALL/DELAMINATION AND CRACK REPAIRS (CONT'D.)

B. TYPE 3: SPALL/DELAMINATION REPAIR WITH HALO EFFECT EMBEDDED ANODE (TYPE 6)

1. LEAD TECHNICAL SPECIFICATION: TSP SECTION T401, RESTORING SPALLED CONCRETE.
2. MATERIAL: POLYMER-MODIFIED PORTLAND CEMENT MORTAR/CONCRETE; STYRENE-BUTADIENE FORMULATION.
3. CATHODIC PROTECTION: WORK IN COMBINATION WITH REPAIR TYPE 6, HALO EFFECT SPALL GALVANIC ANODE.
4. PAY ITEM NO. 401-70-2, RESTORE SPALLED AREAS, LATEX MODIFIED MORTAR- STYRENE BUTADIENE, PER CUBIC FOOT.
5. PROJECT PROPOSED LOCATIONS FOR USE:
 - a. SUBSTRUCTURE BASCULE PIERS

C. TYPE 4: CRACK REPAIR - STANDALONE

1. LEAD TECHNICAL SPECIFICATION: STANDARD SPECIFICATIONS SECTION 411, EPOXY INJECTION OF CRACKS IN CONCRETE STRUCTURES.
2. MATERIAL: PER STANDARD SPECIFICATIONS SECTION 411.
3. CATHODIC PROTECTION: WORK STANDALONE WITH NO CATHODIC PROTECTION MEASURE.
4. PAY ITEM NO. 411-1, EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB, PER GALLON.
5. PAY ITEM No: 411-2, CRACKS INJECT & SEAL - STRUCTURES REHAB, PER LINEAR FOOT.
6. PROJECT PROPOSED LOCATIONS FOR USE:
 - a. SUBSTRUCTURE BASCULE PIERS
 - b. SUPERSTRUCTURE DECK AND RAILINGS

CR-02 CATEGORY 2 - CONCRETE SPALL/DELAMINATION AND CRACK REPAIRS (CONT'D.)

D. TYPE 5: CRACK AND SURFACE SEALING REPAIR WITH HMWM

1. LEAD TECHNICAL SPECIFICATION: STANDARD SPECIFICATIONS SECTION 413, SEALING CRACKS AND CONCRETE STRUCTURE SURFACES.
2. MATERIAL: PER STANDARD SPECIFICATIONS SECTION 413.
3. SEALANT TYPE: HIGH MOLECULAR WEIGHT METHACRYLATE (HMWM).
4. PAY ITEM NO. 413-151, METHACRYLATE MONOMER, PER GALLON.
5. PAY ITEM NO. 413-154, CLEANING AND SEALING CONCRETE SURFACES - PENETRANT SEALER OR METHACRYLATES, PER SQUARE FOOT.
6. PROPOSED PROJECT LOCATIONS FOR USE:
 - a. SUPERSTRUCTURE BRIDGE DECKS

CR-03 CATEGORY 3 - CORROSION PROTECTION MEASURES

A. TYPE 6: HALO EFFECT EMBEDDED ANODE INCORPORATED INTO SPALL/DELAMINATION REPAIR

1. LEAD TECHNICAL SPECIFICATION: TSP SECTION T455, HALO EFFECT SPALL GALVANIC ANODE.
2. MATERIAL: GALVANIC ZINC ANODES ENCAPSULATED WITHIN AN ACTIVATING MORTAR PER THE REQUIREMENTS OF TSP SECTION T455.
3. WORK WITH REPAIR TYPE 3, SPALL/DELAMINATION REPAIR WITH HALO EFFECT EMBEDDED ANODE.
4. PAY ITEM NO. 455-81-106, CATHODIC PROTECTION, F&I, PIER, OTHER MATERIAL ASSEMBLY, PER EACH.
5. PROPOSED PROJECT LOCATIONS FOR USE:
 - a. SUBSTRUCTURE BASCULE PIERS

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (4 OF 6)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE						
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-8

GUSTAVO A. LLANOS, P.E.
P.E. LICENSE NUMBER 73518
BCC ENGINEERING, LLC
4905 WEST LAUREL STREET, SUITE 301
TAMPA, FL 33607

12/13/2024 3:59:57 PM amanzur c:\bms\ccc-pw-01\alex manzur\0253256\B1\GeneralNotes01.dgn

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

GENERAL NOTES (CONT'D.)

COATING REPAIRS

GN-C.01 COATING REPAIRS - GENERAL

- A. PERFORM ALL CLEANING AND PAINTING OPERATIONS IN ACCORDANCE WITH STANDARD SPECIFICATIONS 560 AND 561.
- B. UTILIZE COATING MATERIALS ON FDOT'S LIST OF PRE-APPROVED COATING SYSTEMS (APPROVED PRODUCT LIST (APL)), MEETING THE REQUIREMENTS OF SECTION 975.
- C. INCORPORATE CONTAINMENT SYSTEMS AS DEFINED BY SSPC GUIDE 6, "GUIDE FOR CONTAINING SURFACE DEBRIS GENERATED DURING PAINT REMOVAL OPERATIONS"; THE FOLLOWING MINIMUM CLASS OF CONTAINMENT IS REQUIRED:
 - 1. DURING PRESSURE WASHING - LEVEL 2W.
 - 2. DURING POWER-TOOL CLEANING - LEVEL 3P.
 - 3. DURING ABRASIVE BLAST CLEANING - SSPC LEVEL 2A.

GN-C.02 COATING REPAIRS

CLEANING AND PAINTING STRUCTURAL STEEL (REPLACEMENT)
TYPE 20 COATING REPAIR

- A. STRUCTURAL STEEL (BASCULE AND FLANKING SPANS): CLEAN STRUCTURAL STEEL UTILIZING LOW PRESSURE WATER CLEANING (LP WC, MINIMUM 2,500 AT THE NOZZLE) AND SOLVENT CLEANING TO MEET THE REQUIREMENTS OF SSPC-SP1, "SOLVENT CLEANING" AND SECTION 561-6.5, "SOLUBLE SALT DETECTION AND REMOVAL". AFTER THE SURFACES HAVE COMPLETELY DRIED, MECHANICALLY CLEAN IN ACCORDANCE WITH SECTION 561-6.2 "MECHANICAL REMOVAL OF SURFACE DEFECTS", POWER TOOL GRIND WELDS SMOOTH AND REMOVE PACK RUST. AFTER MECHANICAL CLEANING, ABRASIVE BLAST CLEAN SURFACES TO MEET THE REQUIREMENTS OF 560-7.6 "ABRASIVE BLAST CLEANING". THE SEQUENCE OF PAINTING IS AS FOLLOWS:
 - 1. APPLY ONE FULL COAT OF ORGANIC ZINC RICH EPOXY PRIMER. APPLY PRIME COAT TO ABRASIVE BLAST CLEANED SURFACES WITHIN 8 HOURS OF SURFACE PREPARATION.
 - 2. APPLY A "STRIPE COAT" OF ALUMINUM EPOXY MASTIC PER SECTION 561-8.7, "STRIPE COATING".
 - 3. APPLY A FULL COAT OF EPOXY INTERMEDIATE PAINT.
 - 4. APPLY A "STRIPE COAT" OF ALUMINUM EPOXY MASTIC PER SECTION 561-8.7 "STRIPE COATING".
 - 5. CAULK ALL FAYING SURFACES, CREVICES, JOINTS, GAPS IN ACCORDANCE WITH SECTION 560-8.3, "SEALING USING CAULK".
 - 6. APPLY ONE FULL COAT ALIPHATIC POLYURETHANE FINISH PAINT.
 - 7. PERFORM ALL ALIPHATIC POLYURETHANE FINISH PAINT REPAIRS.
 - 8. APPLY A COAT OF CLEAR COAT POLYURETHANE TO SURFACES EXPOSED TO DIRECT SUNLIGHT.
- B. THE COLOR OF THE FINISH PAINT SHALL MATCH FEDERAL COLOR STANDARD 595B, NO. XXXX. THE CLEAR COAT MUST CONTAIN A UV DEGRADABLE COLOR WHICH FACILITATES COVERAGE INSPECTION.

GN-C.03 COATING REPAIRS

CLEANING AND PAINTING BASCULE MACHINERY (SPOT COAT)
TYPE 21 COATING REPAIR

- A. BASCULE MACHINERY: CLEAN TO MEET THE REQUIREMENTS OF SSPC-SP1, "SOLVENT CLEANING" AND SECTION 561-6.5. DO NOT PRESSURE WASH OR STEAM CLEAN. AFTER THE SURFACES HAVE COMPLETELY DRIED, MECHANICALLY CLEAN IN ACCORDANCE WITH SECTION 561-6.2 "MECHANICAL REMOVAL OF SURFACE DEFECTS" TO REMOVE PACK RUST. AFTER MECHANICAL CLEANING, POWER-TOOL CLEAN SURFACES EXHIBITING DEFECTIVE PAINT AND VISIBLE RUST TO MEET THE REQUIREMENTS OF SSPC-SP15, "COMMERCIAL GRADE POWER TOOL CLEANING." THE SEQUENCE OF PAINTING IS AS FOLLOWS:
 - 1. APPLY "SPOT" COAT OF ALUMINUM EPOXY MASTIC PRIMER TO THE POWER-TOOL CLEANED SURFACES WITHIN 8 HOURS OF SURFACE PREPARATION.
 - 2. APPLY A SECOND "SPOT" COAT OF ALUMINUM EPOXY MASTIC PRIMER.
 - 3. APPLY A "SPOT" COAT OF ALIPHATIC POLYURETHANE FINISH PAINT TO THE "SPOT" PRIMED SURFACES.
- B. THE COLOR OF THE FINISH PAINT SHALL MATCH EXISTING FINISH PAINT.

GN-C.04 COATING REPAIRS

CLEANING AND PAINTING BASCULE PIER SAFETY RAILING
(SPOT COAT)
TYPE 22 COATING REPAIR

- A. BASCULE PIER SAFETY RAILING: CLEAN TO MEET THE REQUIREMENTS OF SSPC-SP1, "SOLVENT CLEANING" AND SECTION 561-6.5. DO NOT PRESSURE WASH OR STEAM CLEAN. AFTER THE SURFACES HAVE COMPLETELY DRIED, MECHANICALLY CLEAN IN ACCORDANCE WITH SECTION 561-6.2 "MECHANICAL REMOVAL OF SURFACE DEFECTS" TO REMOVE PACK RUST. AFTER MECHANICAL CLEANING, POWER-TOOL CLEAN SURFACES EXHIBITING DEFECTIVE PAINT AND VISIBLE RUST TO MEET THE REQUIREMENTS OF SSPC-SP15, "COMMERCIAL GRADE POWER TOOL CLEANING." THE SEQUENCE OF PAINTING IS AS FOLLOWS:
 - 1. APPLY "SPOT" COAT OF ALUMINUM EPOXY MASTIC PRIMER TO THE POWER-TOOL CLEANED SURFACES WITHIN 8 HOURS OF SURFACE.
 - 2. APPLY A FULL COAT OF ALUMINUM EPOXY MASTIC PRIMER.
 - 3. APPLY A FULL COAT OF ALIPHATIC POLYURETHANE FINISH PAINT TO THE "SPOT" PRIMED SURFACES.
- B. THE COLOR OF THE FINISH PAINT SHALL MATCH EXISTING FINISH PAINT.

GN-C.05 COATING REPAIRS

CLEANING AND PAINTING BRIDGE MISCELLANEOUS METALS
(SPOT COAT)
TYPE 23 COATING REPAIR

- A. BRIDGE MISCELLANEOUS METALS: CLEAN TO MEET THE REQUIREMENTS OF SSPC-WJ-4, "WATERJET CLEANING OF METALS - LIGHT CLEANING". AFTER THE SURFACES HAVE COMPLETELY DRIED, MECHANICALLY CLEAN IN ACCORDANCE WITH SECTION 561-6.2 "MECHANICAL REMOVAL OF SURFACE DEFECTS" TO REMOVE PACK RUST. AFTER MECHANICAL CLEANING, POWER-TOOL CLEAN SURFACES EXHIBITING DEFECTIVE PAINT AND VISIBLE RUST TO MEET THE REQUIREMENTS OF SSPC-SP3 "POWER TOOL CLEANING". THE SEQUENCE OF PAINTING IS AS FOLLOWS:
 - 1. APPLY "SPOT" COAT OF ALUMINUM EPOXY MASTIC PRIMER TO THE POWER-TOOL CLEANED SURFACES WITHIN 8 HOURS OF SURFACE PREPARATION.
 - 2. APPLY A SECOND FULL COAT OF ALUMINUM EPOXY MASTIC PRIMER.
 - 3. APPLY A FULL COAT OF ALIPHATIC POLYURETHANE FINISH PAINT.
- B. THE COLOR OF THE FINISH PAINT SHALL MATCH EXISTING FINISH PAINT.

GN-C.06 COATING REPAIRS

CLEANING AND PAINTING PRESTRESSED CONCRETE BEAM
BEARING PLATES (SPOT COAT)
TYPE 24 COATING REPAIR

- A. PRESTRESSED CONCRETE BEAM BEARING PLATES: CLEAN TO MEET THE REQUIREMENTS OF SSPC-WJ-4, "WATERJET CLEANING OF METALS - LIGHT CLEANING". AFTER THE SURFACES HAVE COMPLETELY DRIED, MECHANICALLY CLEAN IN ACCORDANCE WITH SECTION 561-6.2 "MECHANICAL REMOVAL OF SURFACE DEFECTS" TO REMOVE PACK RUST. AFTER MECHANICAL CLEANING, POWER-TOOL CLEAN SURFACES EXHIBITING DEFECTIVE PAINT AND VISIBLE RUST TO MEET THE REQUIREMENTS OF SSPC-SP3 "POWER TOOL CLEANING". THE SEQUENCE OF PAINTING IS AS FOLLOWS:
 - 1. APPLY "SPOT" COAT OF ALUMINUM EPOXY MASTIC PRIMER TO THE POWER-TOOL CLEANED SURFACES WITHIN 8 HOURS OF SURFACE PREPARATION.
 - 2. APPLY A SECOND FULL COAT OF ALUMINUM EPOXY MASTIC PRIMER.
 - 3. APPLY A FULL COAT OF ALIPHATIC POLYURETHANE FINISH PAINT.
- B. THE COLOR OF THE FINISH PAINT SHALL MATCH EXISTING FINISH PAINT.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: DKC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: GENERAL NOTES (5 OF 6)	REF. DWG. NO.		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
					60% SUBMITTAL SUBJECT TO CHANGE	CHECKED BY: FMC 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-9
						DESIGNED BY: JRL 12-24	SR 758	SARASOTA	451280-1-52-01		
						CHECKED BY: REV 12-24					

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

GENERAL NOTES (CONT'D.)

GN-C.07 HEAVY METALS IN EXISTING COATINGS

- A. HEAVY METALS: DETECTABLE LEVELS OF HEAVY METALS HAVE BEEN IDENTIFIED WITHIN THE COATING SAMPLES TESTED AS NOTED BELOW IN TABLE GN.27.A.
- B. SAMPLE RESULTS DENOTED WITH "LESS THAN" (<) SIGN CONTAIN LESS THAN THE REPORTING LIMIT FOR EACH PARTICULAR METAL BASED ON A 50ML VOLUME. TO CONVERT METALS CONCENTRATION (PPM) TO % BY WEIGHT, DIVIDE THE CONCENTRATION BY 10,000.

GN-CP.01 CATHODIC PROTECTION PILE JACKETS

- CATHODIC PROTECTION FOR THIS PROJECT CONSISTS OF GALVANIC CATHODIC PROTECTION STRUCTURAL PILE JACKET SYSTEM ON DESIGNATED BENT PILE AS REQUIRED BY TSP T457. THE LENGTH OF CATHODIC PROTECTION JACKET SHOWN IN THE DRAWINGS ARE MINIMAL AND MAY BE INCREASED BASED ON THE ACTUAL LENGTH OF DAMAGE AT TIME OF CONSTRUCTION AS APPROVED BY THE ENGINEER.
- CATHODIC PROTECTION WORK WILL REQUIRE CONDUCTING ELECTRICAL CONTINUITY TESTING AND CORRECTION ON ALL COMPONENTS DESIGNATED TO RECEIVE A CATHODIC PROTECTION SYSTEM.
- CONTINUITY TESTING, CATHODIC PROTECTION SYSTEM ACTIVATION, AND QUALITY ASSURANCE FOR CATHODIC PROTECTION SHALL BE PROVIDED BY AN APPROVED INDEPENDENT CATHODIC PROTECTION SPECIALIST AS INDICATED IN TSP T457.
- COORDINATE THE CATHODIC PROTECTION WORK WITH THE CONCRETE REPAIR AND OTHER SPECIFIED TYPE OF WORK.
- DUE TO THE RAPID PROGRESSION OF CORROSION DAMAGE ON THE BRIDGE, THE CONTRACTOR SHALL SURVEY ALL LOCATIONS RECEIVING CATHODIC PROTECTION AND FIELD DETERMINE THE ACTUAL QUANTITIES OF EACH CATHODIC PROTECTION SYSTEM PRIOR TO ORDERING MATERIALS.

**TABLE GN.27.A
HEAVY METAL CONCENTRATIONS**

SAMPLE ID	LOCATION	CONCENTRATION (PPM)							
		As	Ba	Cd	Cr	Pb	Se	Ag	Hg
170061-1	EAST LEAF	<2.9	5100	<1.5	<9.3	1000	<7.3	<7.3	<0.28
	TRUNNION GB								
170061-2	EAST LEAF	<4.0	69	14	1200	11,000	<9.9	<9.9	<0.22
	TRUNNION GB								
170061-3	WEST LEAF	<4.4	61	3.9	1700	13,000	<6.1	<6.1	<0.19
	TRUNNION GB								
170061-4	WEST LEAF	<2.0	65	<1.0	90	850	<5.0	<5.0	<0.23
	TRUNNION GB								

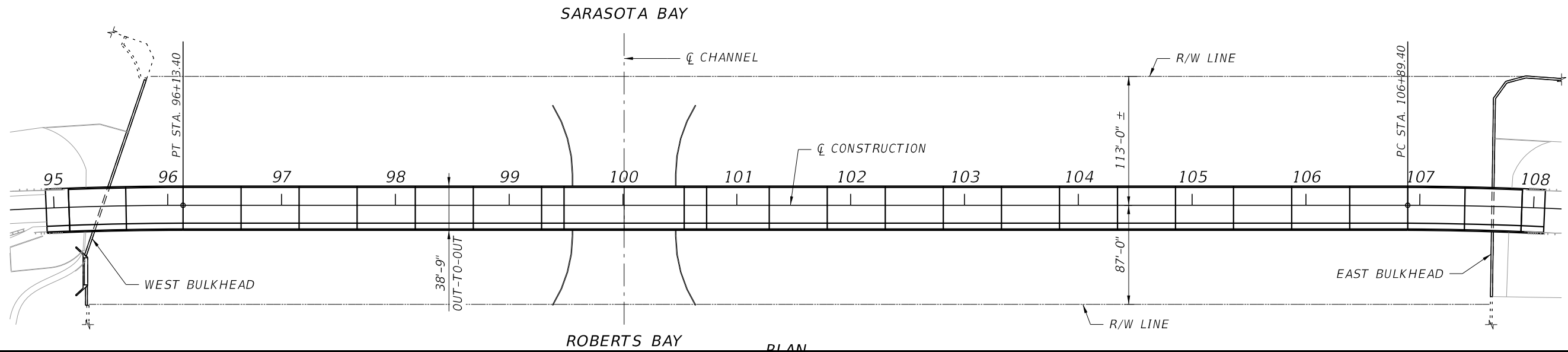
GN-C.08 MEASUREMENT AND PAYMENT

- A. THE FOLLOWING COATING REPAIRS ARE PAID FOR UNDER PAY ITEM 561-1, COATING EXISTING STRUCTURAL STEEL, PER LUMP SUM:
- TYPE 20, CLEANING AND PAINTING STRUCTURAL STEEL (REPLACEMENT)
 - TYPE 21, CLEANING AND PAINTING BASCULE MACHINERY (SPOT COAT)
 - TYPE 22, CLEANING AND PAINTING BASCULE PIER SAFETY RAILING (SPOT COAT)
 - TYPE 23, CLEANING AND PAINTING MISCELLANEOUS METALS (SPOT COAT)
 - TYPE 24, CLEANING AND PAINTING PRESTRESSED CONCRETE BEAM BEARING PLATES (SPOT COAT)

BRIDGE NO. 170061

REVISIONS						DRAWN BY: DKC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (6 OF 6)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: FMC 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-10	
<div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: 0 auto;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						DESIGNED BY: IRL 12-24 CHECKED BY: REV 12-24			PAUL ERIC VINIK, P.E. P.E. LICENSE NUMBER 63032 GREENMAN, PEDERSEN, INC. 1051 WINDERLEY PLACE, SUITE 400 MAITLAND, FL 32751			

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



ROBERTS BAY PLAN

12/13/2024 4:00:12 PM amanzur c:\bms\bcc-pw-01\alex manzur\0253256\B1PlanElev01.dgn

REVISIONS				DATE	BY	DESCRIPTION	DRAWN BY: AGM 12-24	CHECKED BY: WEJ 12-24	DESIGNED BY: WEJ 12-24	CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: PLAN AND ELEVATION	REF. DWG. NO.
DATE	BY	DESCRIPTION	ROAD NO.								COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
											SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-11
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>							GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607								

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

ELEMENT NUMBERING:

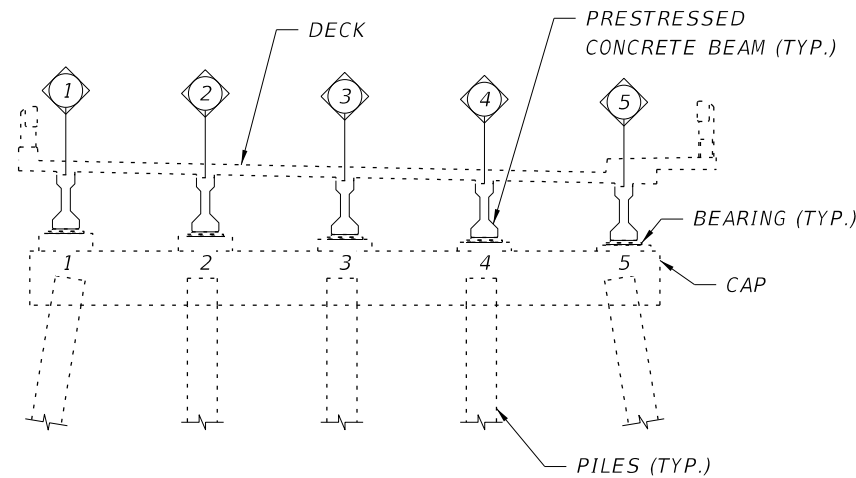
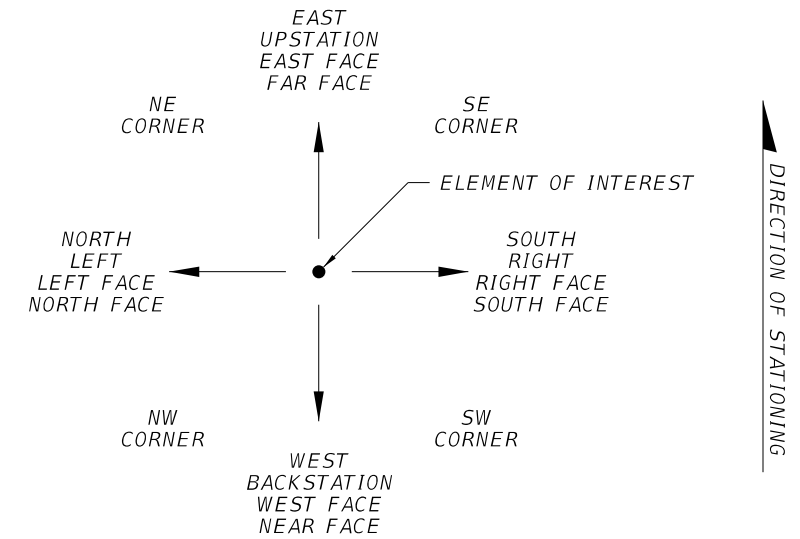
1. ORIENTATION: ORIENTATION FOR NUMBERING IS ALWAYS LOOKING UPSTATION.
2. NUMBERING: NUMBERING OF DISTINCTIVE ELEMENTS IS LEFT TO RIGHT.

SECTIONS, ELEVATIONS AND LAYOUTS THIS SHEET:

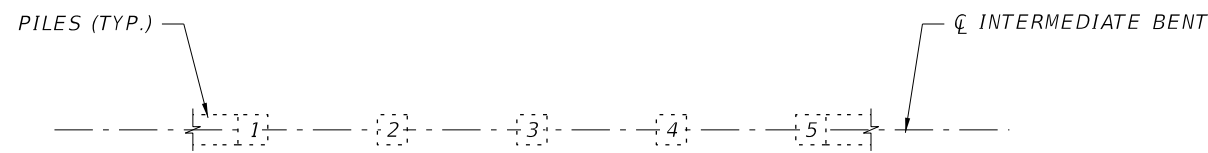
1. SUPERSTRUCTURE SECTIONS ILLUSTRATED ARE FOR WEST APPROACH SPAN NOS. 1 THROUGH 7 AND EAST APPROACH SPAN NOS. 11 THROUGH 23 WITH PRESTRESSED CONCRETE BEAMS; APPROACH SPAN NOS. 8 AND 10 WITH STEEL BEAMS HAVE A SIMILAR SECTION ARRANGEMENT.
2. FOR SPAN NUMBERING, SEE PLAN AND ELEVATION SHEET B1-11.

LEGEND:

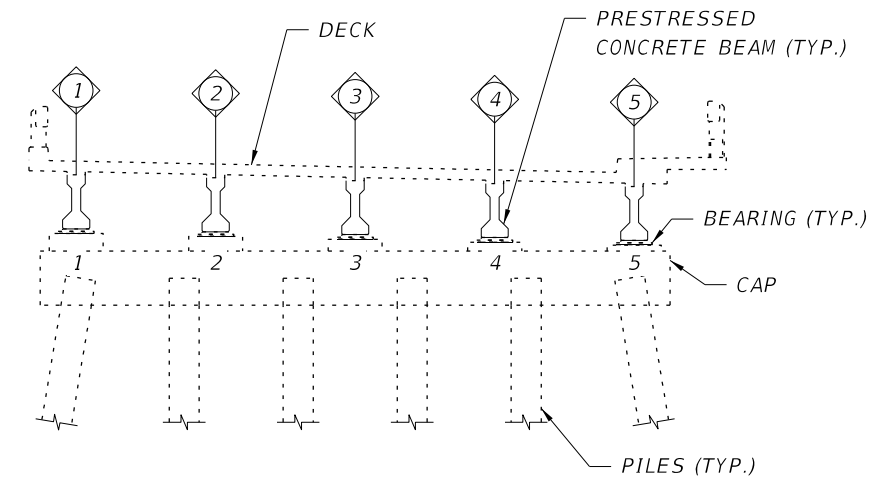
- BEAM NUMBER
- BEARING NUMBER
- PILE NUMBER



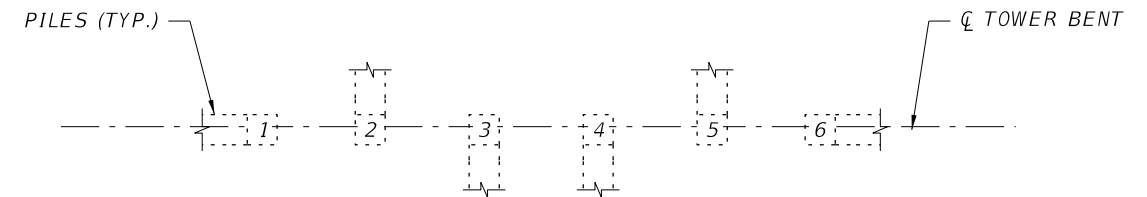
TYPICAL INTERMEDIATE BENT ELEVATION
(LOOKING UPSTATION)



TYPICAL INTERMEDIATE BENT PILE LAYOUT



TYPICAL TOWER BENT ELEVATION
(LOOKING UPSTATION)



TYPICAL TOWER BENT PILE LAYOUT

ORIENTATION AND NUMBERING CONVENTION FOR APPROACH SPAN SUBSTRUCTURE AND SUPERSTRUCTURE ELEMENTS

BRIDGE NO. 170061

REVISIONS				DRAWN BY:			SHEET TITLE:			REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION				
						WEJ 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
						WEJ 12-24	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-12
						GAL 12-24					

**60% SUBMITTAL
SUBJECT TO CHANGE**

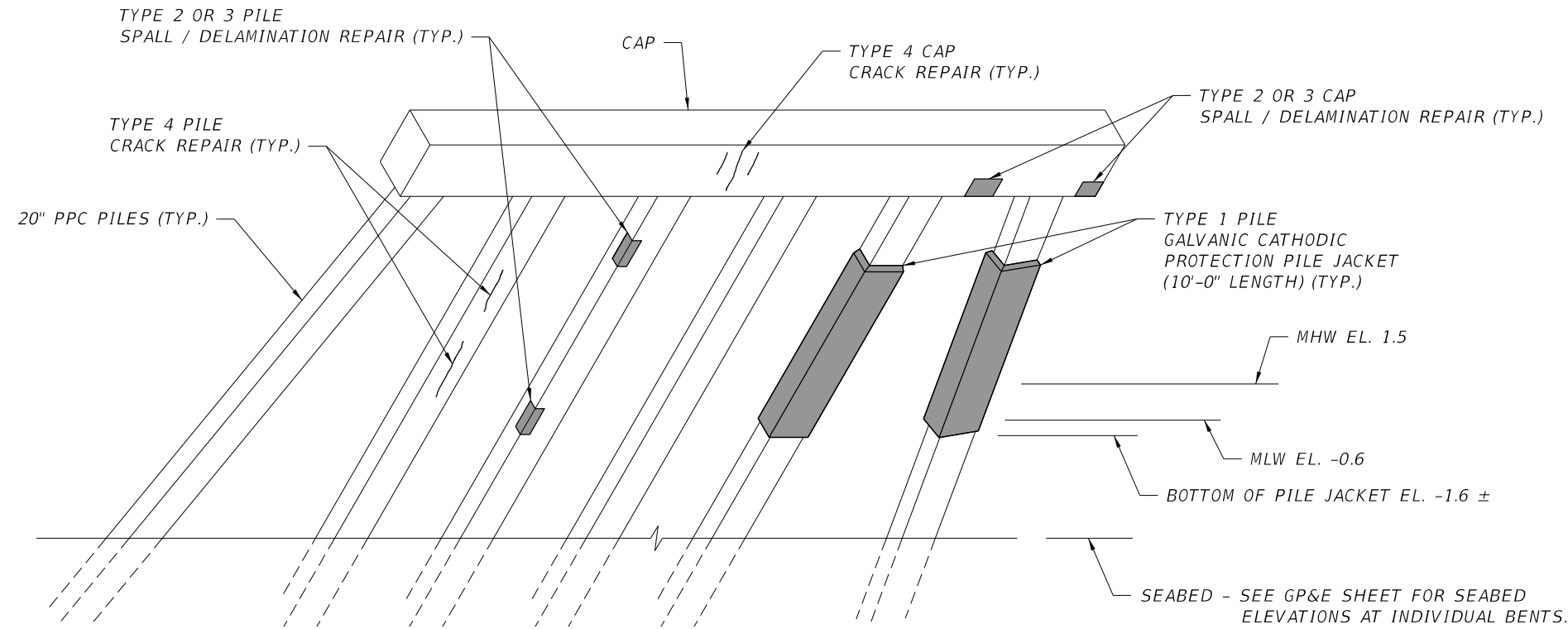
GUSTAVO A. LLANOS, P.E.
P.E. LICENSE NUMBER 73518
BCC ENGINEERING, LLC
4905 WEST LAUREL STREET, SUITE 301
TAMPA, FL 33607

12/13/2024 4:00:19 PM amanazur
c:\bms\lcc-pw-01\alex manzur\0255256\B1\1\scDet02.dgn

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

LEGEND:

- TYPE 1: GALVANIC CATHODIC PROTECTION PILE JACKET
- TYPE 2: SPALL/DELAMINATION REPAIR
- TYPE 3: SPALL/DELAMINATION REPAIR IN COMBINATION WITH CORROSION PROTECTION MEASURE REPAIR TYPE 6 HALO EFFECT EMBEDDED ANODE
- TYPE 4: CRACK REPAIR BY EPOXY INJECTION
- TYPE 6: HALO EFFECT EMBEDDED ANODE CORROSION PROTECTION MEASURE



NOTES:

1. ILLUSTRATION IS INDICATIVE OF REPAIR TYPES THAT MAY BE APPLICABLE TO SPECIFIC BENT SUBSTRUCTURE ELEMENTS; NOT ALL REPAIR TYPES ILLUSTRATED FOR SPECIFIC ELEMENTS ARE INCLUDED IN THE SCOPE OF WORK FOR THIS PROJECT; REFERENCE REPAIR "SCHEDULE A" AND "SCHEDULE B" FOR THE PROPOSED SCOPE OF THE TYPES AND LOCATIONS OF CONCRETE REPAIRS AND CORROSION PROTECTION MEASURES SPECIFIC TO THIS PROJECT FOR BENT SUBSTRUCTURE ELEMENTS.
2. FOR DESCRIPTION OF REPAIR CATEGORIES AND TYPES, REFERENCE BRIDGE GENERAL NOTES, SHEET B1-4.
3. FOR SCHEDULES A & B, REFERENCE SHEETS B1-16 TO B1-22.
4. FOR REPAIR DETAILS, REFERENCE SHEETS B1-28 TO B1-33.

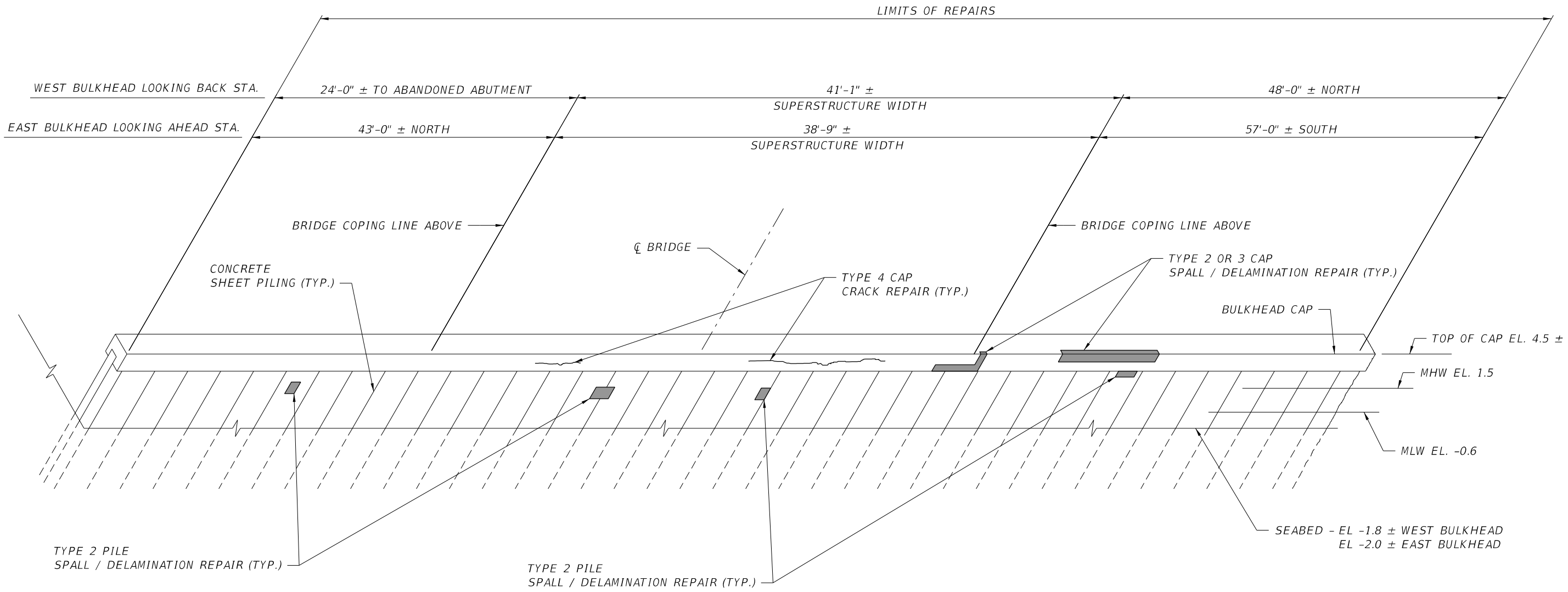
**TYPICAL ILLUSTRATION OF SUBSTRUCTURE PILE AND CONCRETE REPAIRS
INTERMEDIATE AND TOWER BENTS 2 THRU 8 & 11 THRU 23
(INTERMEDIATE BENT SHOWN; TOWER BENT SIMILAR)**

BRIDGE NO. 170061

12/13/2024 4:00:26 PM amanzur c:\bms\lcc-pw-01\alex manzur\0253256\B1\Misc\Det01.dgn

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR TYPE ILLUSTRATIONS (1 OF 3)	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-13	
						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607						

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



LEGEND:

- TYPE 2: SPALL/DELAMINATION REPAIR
- TYPE 3: SPALL/DELAMINATION REPAIR IN COMBINATION WITH CORROSION PROTECTION MEASURE REPAIR TYPE 6 HALO EFFECT EMBEDDED ANODE
- TYPE 4: CRACK REPAIR BY EPOXY INJECTION
- TYPE 6: HALO EFFECT EMBEDDED ANODE CORROSION PROTECTION MEASURE

NOTES:

1. ILLUSTRATION IS INDICATIVE OF REPAIR TYPES THAT MAY BE APPLICABLE TO SPECIFIC BULKHEAD ELEMENTS; NOT ALL REPAIR TYPES ILLUSTRATED FOR SPECIFIC ELEMENTS ARE INCLUDED IN THE SCOPE OF WORK FOR THIS PROJECT; REFERENCE REPAIR "SCHEDULE B" FOR THE PROPOSED SCOPE OF THE TYPES AND LOCATIONS OF CONCRETE REPAIRS AND CORROSION PROTECTION MEASURES SPECIFIC TO THIS PROJECT FOR BULKHEAD ELEMENTS.
2. FOR DESCRIPTION OF REPAIR CATEGORIES AND TYPES, REFERENCE BRIDGE GENERAL NOTES, SHEET B1-4.
3. FOR SCHEDULE B, REFERENCE SHEETS B1-19 TO B1-22.
4. FOR REPAIR DETAILS, REFERENCE SHEETS B1-28 TO B1-30.

**TYPICAL ILLUSTRATION OF BULKHEAD WALL AND CONCRETE REPAIRS
WEST (BEGIN BRIDGE) AND
EAST (END BRIDGE) BULKHEADS**

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR TYPE ILLUSTRATIONS (2 OF 3)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-14
						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607					

12/13/2024 4:00:27 PM amanazur c:\bms\lcc-pw-01\alex manzur\0253256\B1\Misc\Det01.dgn

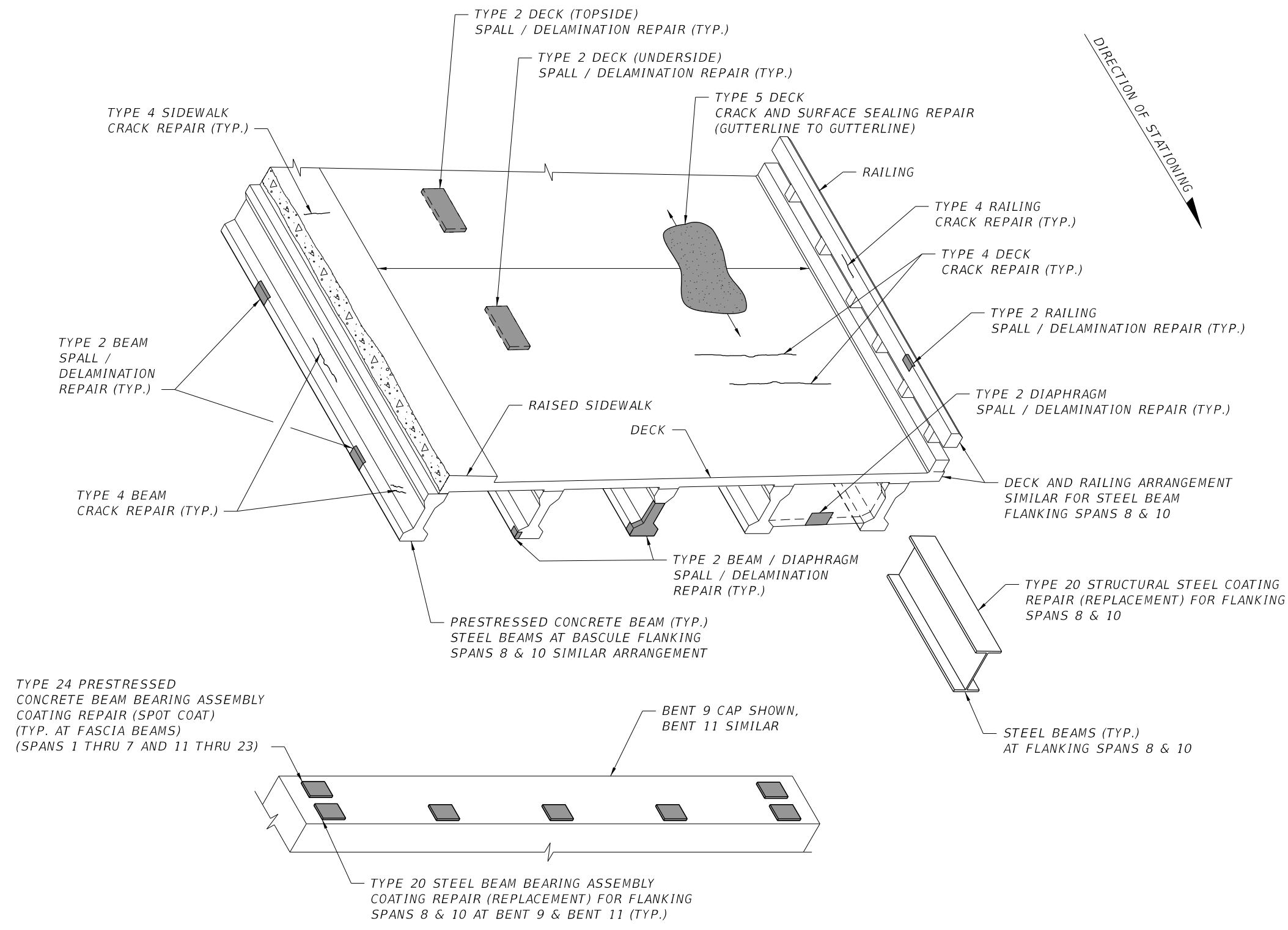
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

LEGEND:

- TYPE 2: SPALL/DELAMINATION REPAIR
- TYPE 4: CRACK REPAIR BY EPOXY INJECTION
- TYPE 5: CRACK AND SURFACE SEALING REPAIR WITH HMWM
- TYPE 20: CLEANING AND PAINTING STRUCTURAL STEEL (REPLACEMENT)
- TYPE 24: CLEANING AND PAINTING PRESTRESSED CONCRETE BEAM BEARING PLATES (REPLACEMENT)

NOTES:

1. ILLUSTRATION IS INDICATIVE OF REPAIR TYPES THAT MAY BE APPLICABLE TO SPECIFIC SUPERSTRUCTURE ELEMENTS; NOT ALL REPAIR TYPES ILLUSTRATED FOR SPECIFIC ELEMENTS ARE INCLUDED IN THE SCOPE OF WORK FOR THIS PROJECT; REFERENCE REPAIR "SCHEDULE C", AND GENERAL NOTES, COATING REPAIRS, FOR THE PROPOSED SCOPE OF THE TYPES AND LOCATIONS OF CONCRETE AND STEEL COATING REPAIRS SPECIFIC TO THIS PROJECT FOR SUPERSTRUCTURE ELEMENTS.
2. FOR DESCRIPTION OF REPAIR CATEGORIES AND TYPES, REFERENCE BRIDGE GENERAL NOTES, SHEETS B1-8 TO B1-9.
3. FOR SCHEDULE C, REFERENCE SHEETS B1-23 TO B1-27.
4. FOR CONCRETE REPAIR DETAILS, REFERENCE SHEETS B1-28 TO B1-30.



**TYPICAL ILLUSTRATION OF SUPERSTRUCTURE REPAIRS
SPANS 1 THRU 8 & 10 THRU 23**

BRIDGE NO. 170061

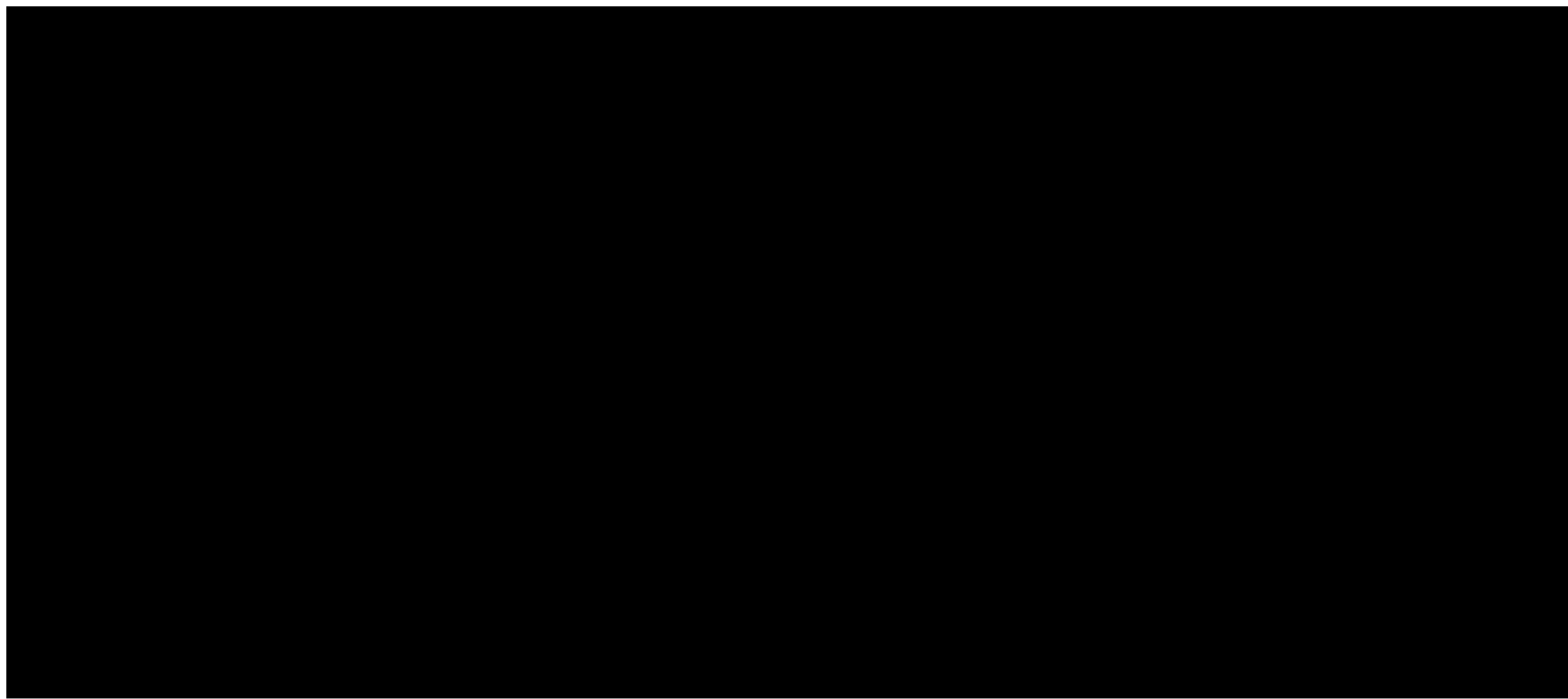
12/13/2024 4:00:27 PM amanazur c:\bms\lcc-pw-01\alex manzur\0253256\B1\isc\Det01.dgn

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR TYPE ILLUSTRATIONS (3 OF 3)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	CHECKED BY: WEJ 12-24	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-15
						DESIGNED BY: WEJ 12-24					
						CHECKED BY: GAL 12-24					

GUSTAVO A. LLANOS, P.E.
P.E. LICENSE NUMBER 73518
BCC ENGINEERING, LLC
4905 WEST LAUREL STREET, SUITE 301
TAMPA, FL 33607

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

12/13/2024 4:00:34 PM amanzur
 c:\bms\acc-pw-01\alex manzur\0253256\B1\DrawTables01_GPI.dgn



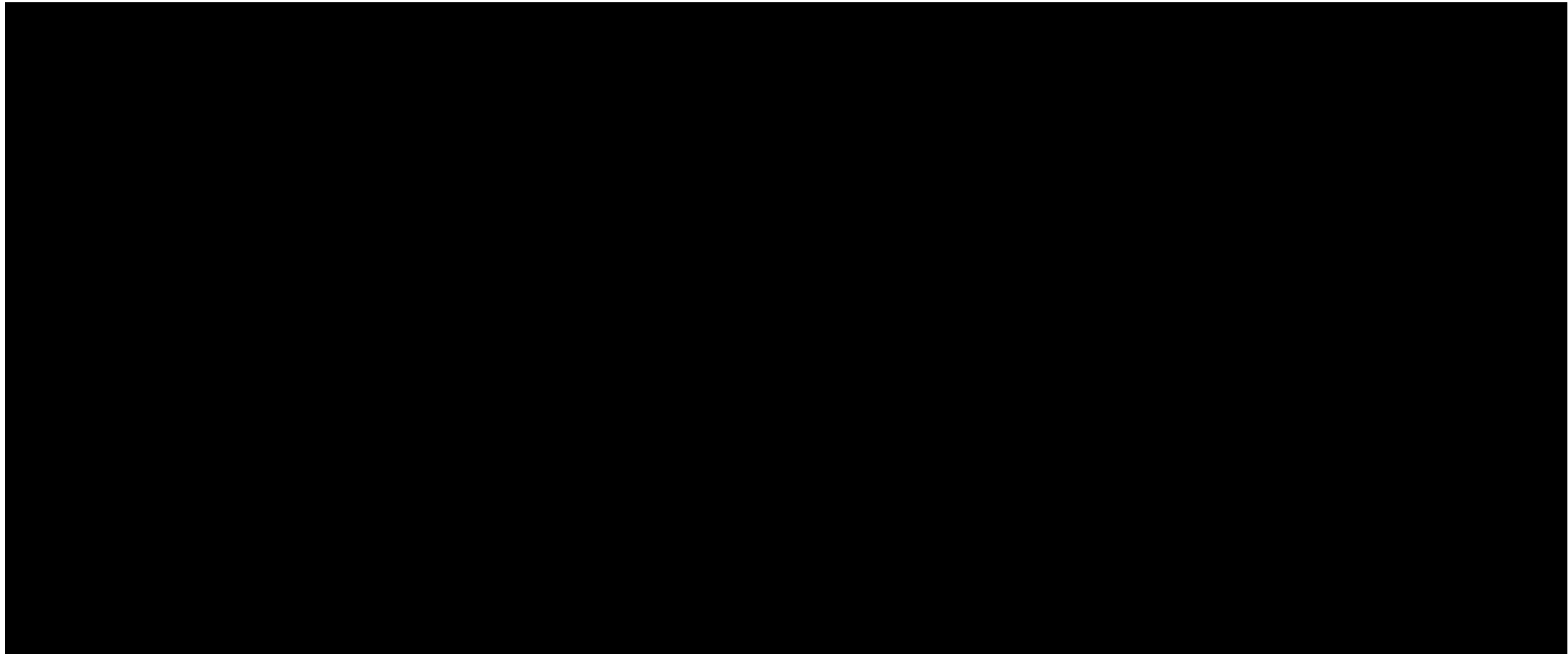
BRIDGE NO. 170061

REVISIONS					DESCRIPTION	DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR SCHEDULE A (1 OF 3)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					PAUL ERIC VINIK, P.E. P.E. LICENSE NUMBER 63032 GREENMAN, PEDERSEN, INC. 1051 WINDERLEY PLACE, SUITE 400 MAITLAND, FL 32751				SR 758 OVER SARASOTA BAY	SHEET NO. B1-16	
						SR 758	SARASOTA	451280-1-52-01			

60% SUBMITTAL
 SUBJECT TO CHANGE

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

12/13/2024 4:00:36 PM amanzur c:\bms\acc-pw-01\alex manzur\0253256\B1\DrawTables01_GPI.dgn

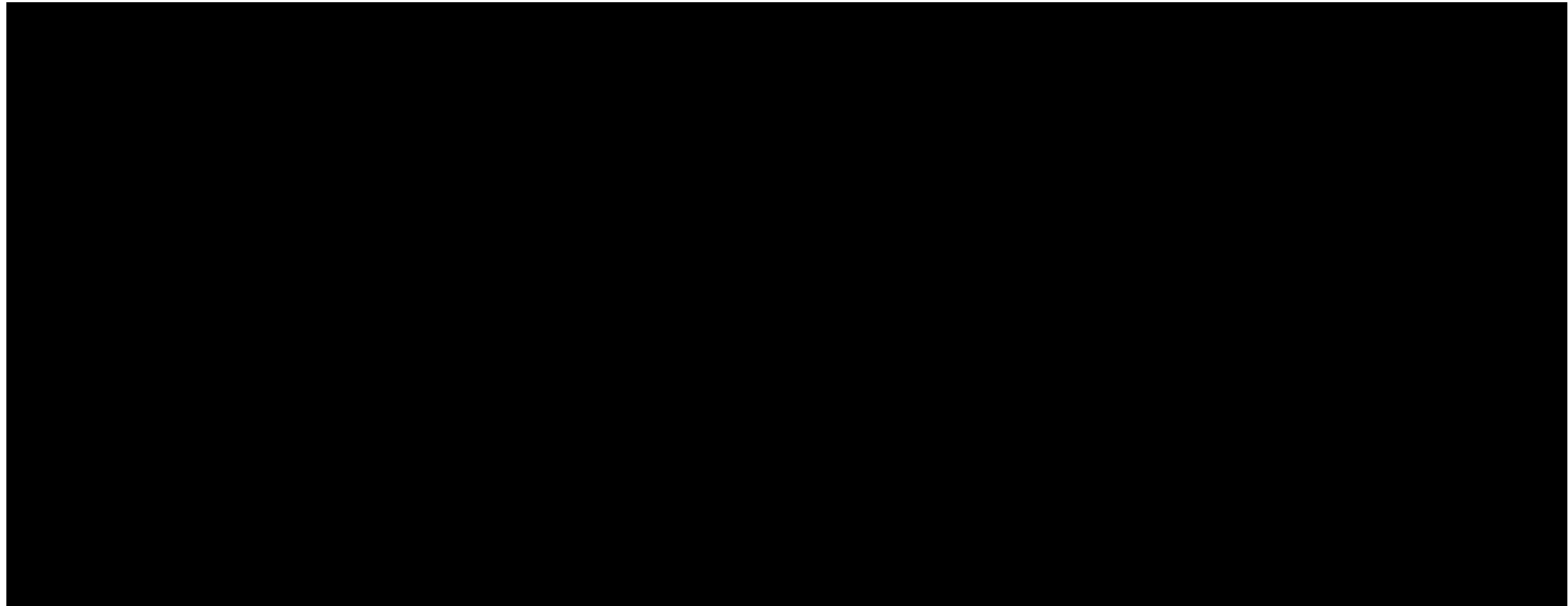


BRIDGE NO. 170061

REVISIONS					PAUL ERIC VINIK, P.E. P.E. LICENSE NUMBER 63032 GREENMAN, PEDERSEN, INC. 1051 WINDERLEY PLACE, SUITE 400 MAITLAND, FL 32751	DRAWN BY: AGM 12-24 CHECKED BY: FMC 12-24 DESIGNED BY: IRL 12-24 CHECKED BY: REV 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY			DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01	REPAIR SCHEDULE A (2 OF 3) SR 758 OVER SARASOTA BAY	B1-17	

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

12/13/2024 4:00:37 PM amanzur
c:\bms\acc-pw-01\alex manzur\0255256\B1\DrawTables01_GPI.dgn



BRIDGE NO. 170061

REVISIONS					PAUL ERIC VINIK, P.E. P.E. LICENSE NUMBER 63032 GREENMAN, PEDERSEN, INC. 1051 WINDERLEY PLACE, SUITE 400 MAITLAND, FL 32751	DRAWN BY: AGM 12-24 CHECKED BY: FMC 12-24 DESIGNED BY: IRL 12-24 CHECKED BY: REV 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY			DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		
										SHEET NO. B1-18	

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

SCHEDULE B
SUBSTRUCTURE CATEGORY 2 CONCRETE REPAIRS AND CATEGORY 3 CATHODIC PROTECTION MEASURES
(PILE BENT SUBSTRUCTURE FOR SPANS 1 THROUGH 8 AND 10 THROUGH 23 - WEST AND EAST BULKHEADS)

REPAIR ID NO.	BENT NO.	SUBSTRUCTURE ELEMENT DEFICIENCY					PROPOSED REPAIR TYPE	REPAIR QUANTITIES						
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION	PROJECTED REPAIR AREA/VOLUME			CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS			CATEGORY 3 CATHODIC PROTECTION MEASURES		
						LENGTH		WIDTH	DEPTH	RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HALO EFFECT GALVANIC ANODE	
														401-70-2
IN	IN	IN	CF	GAL	LF	EA								
B-1	BENT 4	226	PILE	SOUTHWEST CORNER OF EXTERIOR PILE 4-5 APPROXIMATELY 18 INCHES BELOW THE BENT CAP	SPALL/DELAMINATION	TYPE 2	30	14	3	0.73				
B-10	BENT 4	234	CAP	BOTTOM FACE OF BENT CAP BETWEEN PILES 4-4 AND 4-5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33				
B-11	BENT 5	234	CAP	BOTTOM FACE OF BENT CAP AT PILE 5-4	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33				
B-12	BENT 15	234	CAP	SOUTH END, TOP AND SIDE FACES OF BENT CAP OUTBOARD OF BEAM 5 PEDESTALS	SPALL/DELAMINATION	TYPE 2	35	18	6	2.19				
B-13	BENT 15	234	CAP	SOUTH END, BOTTOM FACE OF BENT CAP OUTBOARD OF PILE 15-5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33				
B-14	BENT 18	234	CAP	BOTTOM OF BENT CAP ADJACENT TO INTERIOR PILE	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33				
B-15	BENT 21	234	CAP	SOUTH END, TOP CORNER OF BENT CAP OUTBOARD OF BEAM LINE 5 PEDESTAL	SPALL	TYPE 2	12	12	4	0.33				
B-16	BENT 21	234	CAP	SOUTH END, BOTTOM FACE OF BENT CAP OUTBOARD OF PILE 21-5	SPALL	TYPE 2	12	12	4	0.33				
B-21	WEST BULKHEAD	8393	CAP	NORTH OF BRIDGE COPING LOCATION 1	SPALL/DELAMINATION - FULL CAP DEPTH	TYPE 2	144	18	7	10.50				
B-22	WEST BULKHEAD	8393	CAP	SOUTH OF BRIDGE COPING AND BENEATH BRIDGE - LOCATION 2	SPALL/DELAMINATION - FULL CAP DEPTH	TYPE 2	168	18	7	12.25				
B-23	WEST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 1	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				

SCHEDULE B - CONTINUED NEXT SHEET

BRIDGE NO. 170061

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION					GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR SCHEDULE B (1 OF 4)	REF. DWG. NO.
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-19			

12/13/2024 4:00:45 PM amanazur c:\bms\bcc-pw-01\alex manzur\0253256\B1\DrawTab\es01.dgn

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

SCHEDULE B (CONTINUED)
SUBSTRUCTURE CATEGORY 2 CONCRETE REPAIRS AND CATEGORY 3 CATHODIC PROTECTION MEASURES
(PILE BENT SUBSTRUCTURE FOR SPANS 1 THROUGH 8 AND 10 THROUGH 23 - WEST AND EAST BULKHEADS)

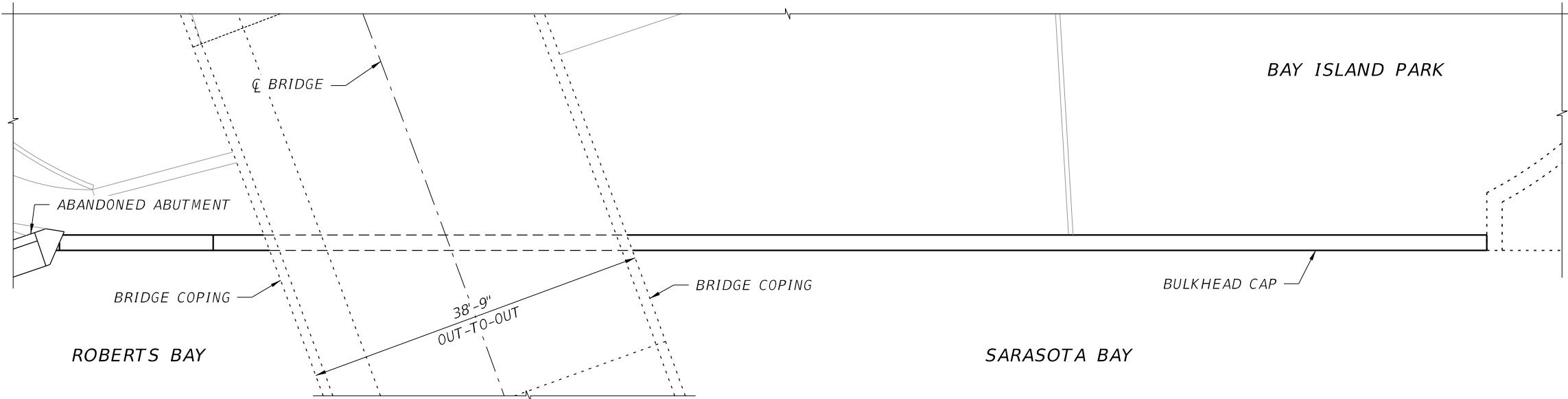
REPAIR ID NO.	BENT NO.	SUBSTRUCTURE ELEMENT DEFICIENCY					PROPOSED REPAIR TYPE	REPAIR QUANTITIES						
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION	PROJECTED REPAIR AREA/VOLUME			CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS			CATEGORY 3 CATHODIC PROTECTION MEASURES		
						LENGTH		WIDTH	DEPTH	RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HALO EFFECT GALVANIC ANODE	
													401-70-2	411-1
IN	IN	IN	CF	GAL	LF	EA								
B-24	EAST BULKHEAD	8393	CAP	NORTH OF BRIDGE COPING LOCATION 1	SPALL/DELAMINATION - FULL CAP DEPTH	TYPE 2	180	18	7	13.12				
B-25	EAST BULKHEAD	8393	CAP	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 2	SPALL/DELAMINATION - FULL CAP DEPTH	TYPE 2	120	18	7	8.75				
B-26	EAST BULKHEAD	8393	CAP	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 3	SPALL/DELAMINATION - FULL CAP DEPTH	TYPE 2	144	18	7	10.50				
B-27	EAST BULKHEAD	8393	CAP	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 4	SPALL/DELAMINATION - PARTIAL CAP DEPTH	TYPE 2	120	15	7	7.29				
B-28	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 1	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-29	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 2	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-30	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 3	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-31	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 4	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-32	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 5	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-33	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 6	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
B-34	EAST BULKHEAD	8393	SHEET PILE	SOUTH OF BRIDGE COPING TO ROW LINE - LOCATION 7	SPALL/DELAMINATION WITH EXPOSED REINFORCMENT	TYPE 2	18	18	3	0.56				
SCHEDULE B TOTALS										71.8	0	0	0	

BRIDGE NO. 170061

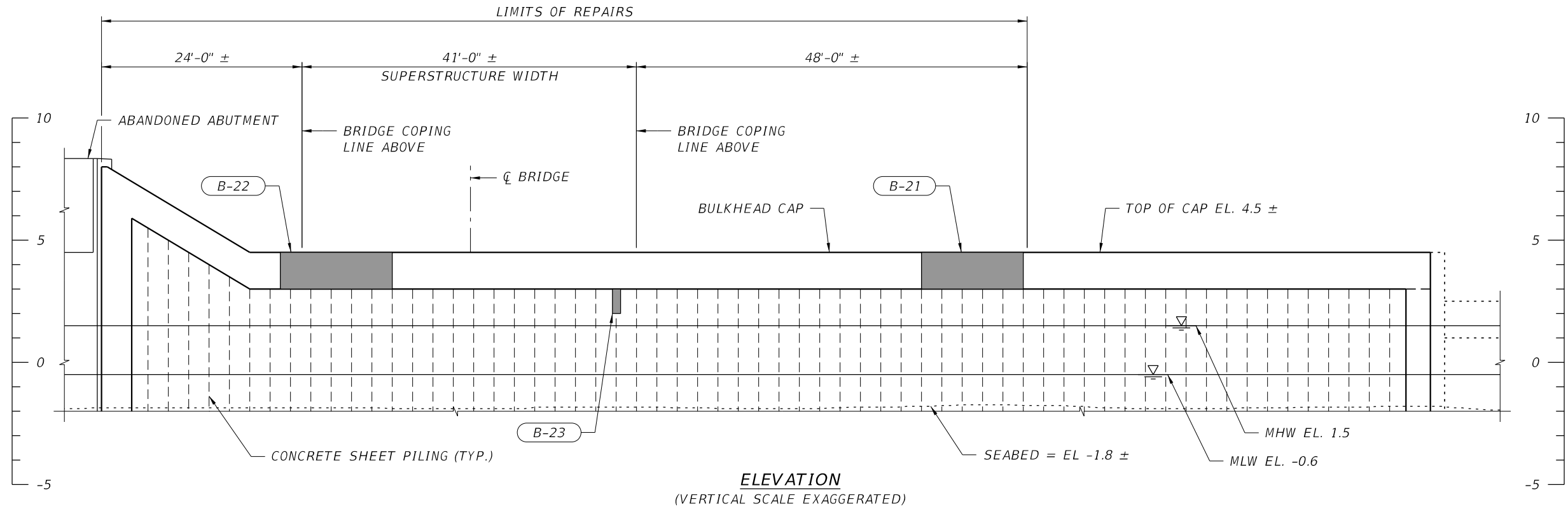
REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION					GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01			SHEET TITLE: REPAIR SCHEDULE B (2 OF 4) PROJECT NAME: SR 758 OVER SARASOTA BAY		REF. DWG. NO. SHEET NO. B1-20
<div style="border: 1px dashed black; padding: 5px; width: fit-content; margin: auto;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>												

12/13/2024 4:00:47 PM amanazur c:\bms\bcc-pw-01\alex manzur\0253256\B1\Drawn\Tables01.dgn

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



PLAN
(WEST BULKHEAD)



ELEVATION
(VERTICAL SCALE EXAGGERATED)

LEGEND:
 (X-XX) BULKHEAD CONCRETE
 SCHEDULE B REPAIR I.D. NO.

NOTES:
 1. FOR SCHEDULE B, WEST BULKHEAD PROPOSED REPAIRS, SEE SHEET B1-19.

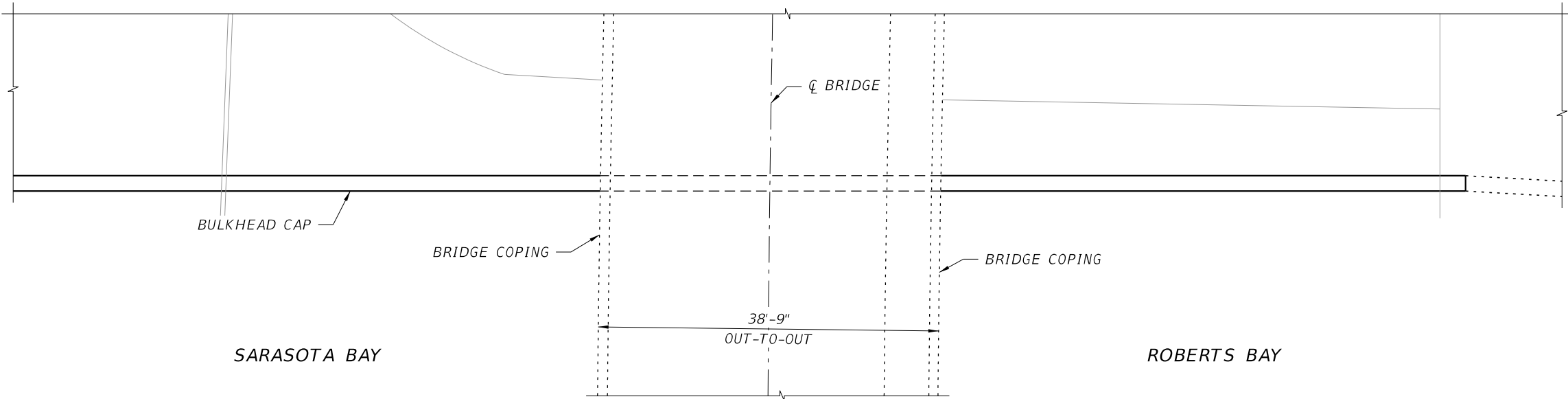
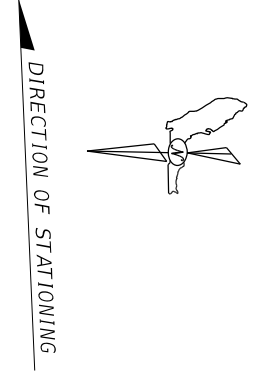
WEST BULKHEAD
APPROXIMATE LOCATION OF
PROPOSED CAP AND PILE CONCRETE REPAIRS

BRIDGE NO. 170061

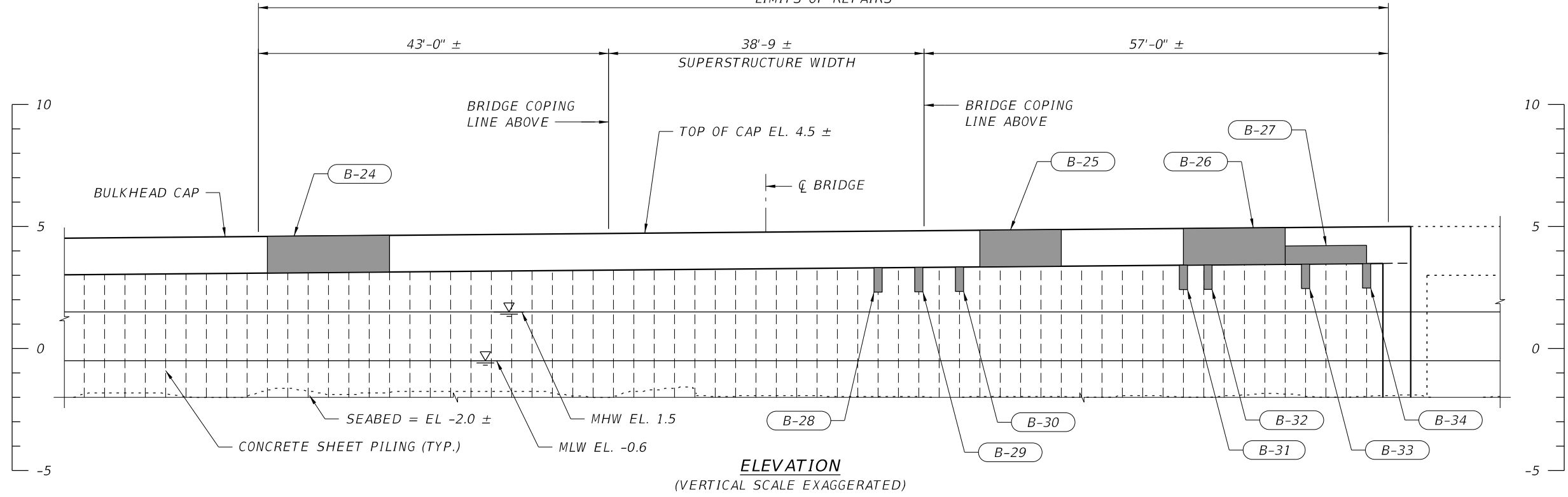
REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR SCHEDULE B (3 OF 4)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-21
60% SUBMITTAL SUBJECT TO CHANGE						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607					

12/13/2024 4:00:57 PM amanzur c:\bms\bcc-pw-01\alex_manzur\0255256\B1\MSD04.dgn

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



PLAN
(EAST BULKHEAD)
LIMITS OF REPAIRS



ELEVATION
(VERTICAL SCALE EXAGGERATED)

LEGEND:
 (X-XX) BULKHEAD CONCRETE
 SCHEDULE B REPAIR I.D. NO.

NOTES:
 1. FOR SCHEDULE B, EAST BULKHEAD PROPOSED REPAIRS, SEE SHEET B1-20.

EAST BULKHEAD
APPROXIMATE LOCATION OF
PROPOSED CAP AND PILE CONCRETE REPAIRS

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPAIR SCHEDULE B (4 OF 4)	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-22	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607			DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24			

12/13/2024 4:00:57 PM amanzur
 c:\bms\lcc-pw-01\alex_manzur\0255256\B1\1\scDet04.dgn

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

**SCHEDULE C
SUPERSTRUCTURE CATEGORY 2 CONCRETE REPAIRS
(APPROACH SPANS 1 THROUGH 8 AND 10 THROUGH 23 - INCLUDES BRIDGE RAILINGS FOR BASCULE PIERS)**

REPAIR ID NO.	SPAN	SUPERSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES							
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		PROJECTED REPAIR AREA/VOLUME		CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS					
							LENGTH	WIDTH	DEPTH	RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HMWM MATERIAL FOR SEALING DECK CRACKS	HMWM BRIDGE DECK SEALING AREA
										401-70-2	411-1	411-2	413-151	413-154
IN	IN	IN	CF	GAL	LF	GA	SF							
C-1	1	12	DECK	BRIDGE DECK UNDERSIDE NORTH OVERHANG - LOCATION 1	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-2	1	12	DECK	BRIDGE DECK UNDERSIDE SOUTH OVERHANG - LOCATION 2	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-3	8	12	DECK	BRIDGE DECK TOP SURFACE	MULTIPLE AREAS OF DELAMINATION WITH SPALLS ALONG RIGHT SHOULDER	TYPE 2	36	360	0.5	3.75				
C-4	8	12	DECK		TRANSVERSE CRACKING	TYPE 4	1200	0.063	7		3	100		
C-5	8	12	DECK			TYPE 5	744	378				25	1953	
C-6	8	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS - LOCATION 1	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-7	8	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS - LOCATION 2	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-8	8	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS - LOCATION 3	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-9	10	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS (BAY 10-4)- LOCATION 1	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				
C-10	10	12	DECK	BRIDGE DECK UNDERSIDE ALONG SOUTH COPING LINE - LOCATION 2	LONGITUDINAL DELAMINATION AND CRACKING	TYPE 2	240	15	8	16.66				
C-11	10	12	DECK	BRIDGE DECK UNDERSIDE SOUTH OVERHANG	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25				

SCHEDULE C - CONTINUED NEXT SHEET

BRIDGE NO. 170061

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: REPAIR SCHEDULE C (1 OF 5)	REF. DWG. NO.
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-23	

12/13/2024 4:01:05 PM amanzur c:\bms\bcc-pw-01\alex manzur\0255256\B1\DrawTables01.dgn

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

**SCHEDULE C
SUPERSTRUCTURE CATEGORY 2 CONCRETE REPAIRS
(APPROACH SPANS 1 THROUGH 8 AND 10 THROUGH 23 - INCLUDES BRIDGE RAILINGS FOR BASCULE PIERS)**

REPAIR ID NO.	SPAN	SUPERSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES								
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS								
							PROJECTED REPAIR AREA/VOLUME			RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HMWM MATERIAL FOR SEALING DECK CRACKS	HMWM BRIDGE DECK SEALING AREA	
							LENGTH	WIDTH	DEPTH	401-70-2	411-1	411-2	413-151	413-154	
IN	IN	IN	CF	GAL	LF	GA	SF								
C-12	10	12	DECK	BRIDGE DECK TOP SURFACE	MULTIPLE AREAS OF DELAMINATION WITH SPALLS ALONG RIGHT SHOULDER	TYPE 2	36	360	0.5	3.75					
C-13	10	12	DECK		TRANSVERSE CRACKING	TYPE 4	1200	0.063	7		3	100			
C-14	10	12	DECK			TYPE 5	744	378					25	1953	
C-15	11	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS (BAY 11-3)	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT (NEAR DIAPHRAGM)	TYPE 2	12	12	3	0.25					
C-16	13	12	DECK	BRIDGE DECK UNDERSIDE AT LEFT OVERHANG - LOCATION 1	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-17	13	12	DECK	BRIDGE DECK UNDERSIDE AT LEFT OVERHANG - LOCATION 2	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-18	14	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS (BAY 14-4)	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-19	17	12	DECK	BRIDGE DECK TOP SURFACE	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-20	19	12	DECK	BRIDGE DECK UNDERSIDE BETWEEN BEAMS (BAY 19-4)	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-21	23	12	DECK	BRIDGE DECK UNDERSIDE AT LEFT OVERHANG	DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	24	9	3	0.38					
C-31	3	109	BEAM	END OF BEAM 3-2 AT BENT 3	SPALL AT SOUTH FACE OF BOTTOM FLANGE	TYPE 2	15	18	2	0.31					
C-32	5	109	BEAM/DIAPH.	END OF BEAM 5-2 AT BENT 5	BEAM END/POURED BEAM END DELAMINATION/SPALL	TYPE 2	12	12	4	1.00					

SCHEDULE C - CONTINUED NEXT SHEET

BRIDGE NO. 170061

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: REPAIR SCHEDULE C (2 OF 5)	REF. DWG. NO.
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-24	

12/13/2024 4:01:07 PM amanazur c:\bms\bcc-pw-01\alex manzur\0255256\B1\DrawnTables01.dgn

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

**SCHEDULE C
SUPERSTRUCTURE CATEGORY 2 CONCRETE REPAIRS
(APPROACH SPANS 1 THROUGH 8 AND 10 THROUGH 23 - INCLUDES BRIDGE RAILINGS FOR BASCULE PIERS)**

REPAIR ID NO.	SPAN	SUPERSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES								
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS								
							PROJECTED REPAIR AREA/VOLUME			RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HMWM MATERIAL FOR SEALING DECK CRACKS	HMWM BRIDGE DECK SEALING AREA	
							LENGTH	WIDTH	DEPTH	401-70-2	411-1	411-2	413-151	413-154	
IN	IN	IN	CF	GAL	LF	GA	SF								
C-33	5	109	DIAPH.	BAY 1, EAST FACE AT BENT 5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33					
C-34	5	109	DIAPH.	BAY 2, EAST FACE AT BENT 5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33					
C-35	5	109	DIAPH.	BAY 3, EAST FACE AT BENT 5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33					
C-36	5	109	DIAPH.	BAY 4, EAST FACE AT BENT 5	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33					
C-37	6	109	DIAPH.	INTERIOR AT BENT 6	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	30	6	4	0.42					
C-38	15	109	BEAM/DIAPH.	END OF FASCIA BEAM 15-5 AT BENT 16	POURED BEAM END DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	27	9	4.5	0.63					
C-39	17	109	DIAPH.	BAY 3, EAST FACE AT BENT 17	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	4	0.33					
C-40	18	109	BEAM/DIAPH.	END OF FASCIA BEAM 18-5 AT BENT 19	POURED BEAM END DELAMINATION/SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	9	4.5	0.28					
C-41	19	109	DIAPH.	INTERIOR WEST FACE AT BENT 20	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	15	8	9	0.63					
C-42	20	109	DIAPH.	INTERIOR BOTTOM FACE AT BENT 20	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	24	8	4	0.44					
C-43	21	109	BEAM/DIAPH.	END OF FASCIA BEAM 21-5 AT BENT 22	BEAM END/POURED BEAM END DELAMINATION/SPALL	TYPE 2	30	24	4	1.67					
C-44	22	109	BEAM/DIAPH.	END OF FASCIA BEAM 22-5 AT BENT 22	BEAM END/POURED BEAM END DELAMINATION/SPALL	TYPE 2	18	24	4	1.00					
C-45	23	109	DIAPH.	BAY 3, BOTTOM FACE AT BENT 23	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	24	8	4	0.44					

SCHEDULE C - CONTINUED NEXT SHEET

BRIDGE NO. 170061

REVISIONS <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607			DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01			SHEET TITLE: REPAIR SCHEDULE C (3 OF 5) PROJECT NAME: SR 758 OVER SARASOTA BAY			REF. DWG. NO. SHEET NO. B1-25
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																							

**60% SUBMITTAL
SUBJECT TO CHANGE**

12/13/2024 4:01:09 PM amanzur c:\bms\bcc-pw-01\alex manzur\0255256\B1\Drawn\Tables01.dgn

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

**SCHEDULE C
SUPERSTRUCTURE CATEGORY 2 CONCRETE REPAIRS
(APPROACH SPANS 1 THROUGH 8 AND 10 THROUGH 23 - INCLUDES BRIDGE RAILINGS FOR BASCULE PIERS)**

REPAIR ID NO.	SPAN	SUPERSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES								
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS								
							PROJECTED REPAIR AREA/VOLUME			RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HMWM MATERIAL FOR SEALING DECK CRACKS	HMWM BRIDGE DECK SEALING AREA	
							LENGTH	WIDTH	DEPTH	401-70-2	411-1	411-2	413-151	413-154	
IN	IN	IN	CF	GAL	LF	GA	SF								
C-51	2	331	BRIDGE RAILING	TOP RAIL 2-2 RIGHT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-52	4	331	BRIDGE RAILING	BOTTOM RAIL 4-6 RIGHT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-53	8	331	BRIDGE RAILING	TOP AND BOTTOM BRIDGE RAILS	HORIZONTAL CRACKS INTERMITTENTLY THROUGHOUT THE FULL LENGTH	TYPE 4	600	0.063	8		1.5	50			
C-54	8	331	BRIDGE RAILING	BOTTOM RAIL 8-3 RIGHT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-55	9	331	BRIDGE RAILING	BASCULE PIER 9 TOP RAIL RIGHT	MULTIPLE SPALLS/DELAMINATIONS ALONG THE RAIL TOP AND BOTTOM	TYPE 2	180	13.5	8	11.25					
C-56	9	331	BRIDGE RAILING	BASCULE PIER 10; RAILING POST 10-1 LEFT	SPALL/DELAMINATIONS	TYPE 2	12	12	3	0.25					
C-57	9	331	BRIDGE RAILING	BASCULE PIER 10 RAILING POST 10-2 LEFT	SPALL/DELAMINATIONS	TYPE 2	12	12	3	0.25					
C-58	9	331	BRIDGE RAILING	BASCULE PIER 10 RAILING POST 10-3 LEFT	SPALL/DELAMINATIONS	TYPE 2	12	12	3	0.25					
C-59	9	331	BRIDGE RAILING	BASCULE PIER 10 TOP RAIL LEFT	SPALL/DELAMINATIONS ALONG THE RAIL TOP AND BOTTOM	TYPE 2	60	13.5	8	3.75					
C-60	10	331	BRIDGE RAILING	TOP AND BOTTOM BRIDGE RAILS	HORIZONTAL CRACKS INTERMITTENTLY THROUGHOUT THE FULL LENGTH	TYPE 4	600	0.063	8		1.5	50			

SCHEDULE C - CONTINUED NEXT SHEET

BRIDGE NO. 170061

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: REPAIR SCHEDULE C (4 OF 5)	REF. DWG. NO.
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-26	

12/13/2024 4:01:10 PM amanazur c:\bms\bcc-pw-01\alex manzur\0255256\B1\DrawnTables01.dgn

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

**SCHEDULE C
SUPERSTRUCTURE CATEGORY 2 CONCRETE REPAIRS
(APPROACH SPANS 1 THROUGH 8 AND 10 THROUGH 23 - INCLUDES BRIDGE RAILINGS FOR BASCULE PIERS)**

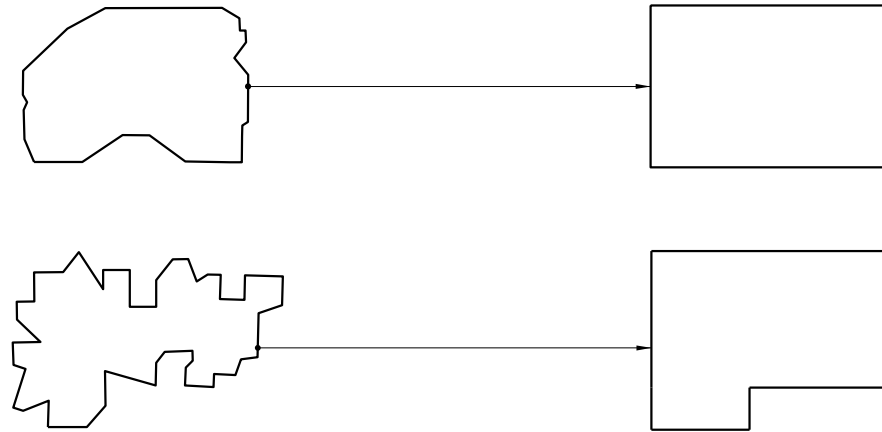
REPAIR ID NO.	SPAN	SUPERSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES								
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS								
							PROJECTED REPAIR AREA/VOLUME			RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HMWM MATERIAL FOR SEALING DECK CRACKS	HMWM BRIDGE DECK SEALING AREA	
							LENGTH	WIDTH	DEPTH	401-70-2	411-1	411-2	413-151	413-154	
IN	IN	IN	CF	GAL	LF	GA	SF								
C-61	10	331	BRIDGE RAILING	POST 10-1 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-62	10	331	BRIDGE RAILING	POST 10-2 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	18	12	4	0.50					
C-63	11	331	BRIDGE RAILING	TOP RAIL 11-9 RIGHT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-64	11	331	BRIDGE RAILING	TOP RAIL 12-8 RIGHT	SPALL	TYPE 2	12	12	3	0.25					
C-65	13	331	BRIDGE RAILING	BOTTOM RAIL 13-5 LEFT	SPALL	TYPE 2	12	12	3	0.25					
C-66	14	331	BRIDGE RAILING	BOTTOM RAIL 14-4 LEFT	SPALL	TYPE 2	48	9	3	0.75					
C-67	14	331	BRIDGE RAILING	POST 14-10 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	27	12	11	2.06					
C-68	15	331	BRIDGE RAILING	POST 15-1 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	27	12	11	2.06					
C-69	18	331	BRIDGE RAILING	POST 18-1 RIGHT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-70	22	331	BRIDGE RAILING	POST 22-1 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
C-71	22	331	BRIDGE RAILING	POST 22-10 LEFT	SPALL WITH EXPOSED REINFORCEMENT	TYPE 2	12	12	3	0.25					
SCHEDULE C TOTALS										59.9	9	300	50	3906	

BRIDGE NO. 170061

REVISIONS DATE BY DESCRIPTION DATE BY DESCRIPTION				GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: REPAIR SCHEDULE C (5 OF 5)	REF. DWG. NO.
<div style="border: 1px dashed black; padding: 5px; text-align: center;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-27	

12/13/2024 4:01:12 PM amanzur c:\bms\bcc-pw-01\alex manzur\0253256\B1\DrawTables01.dgn

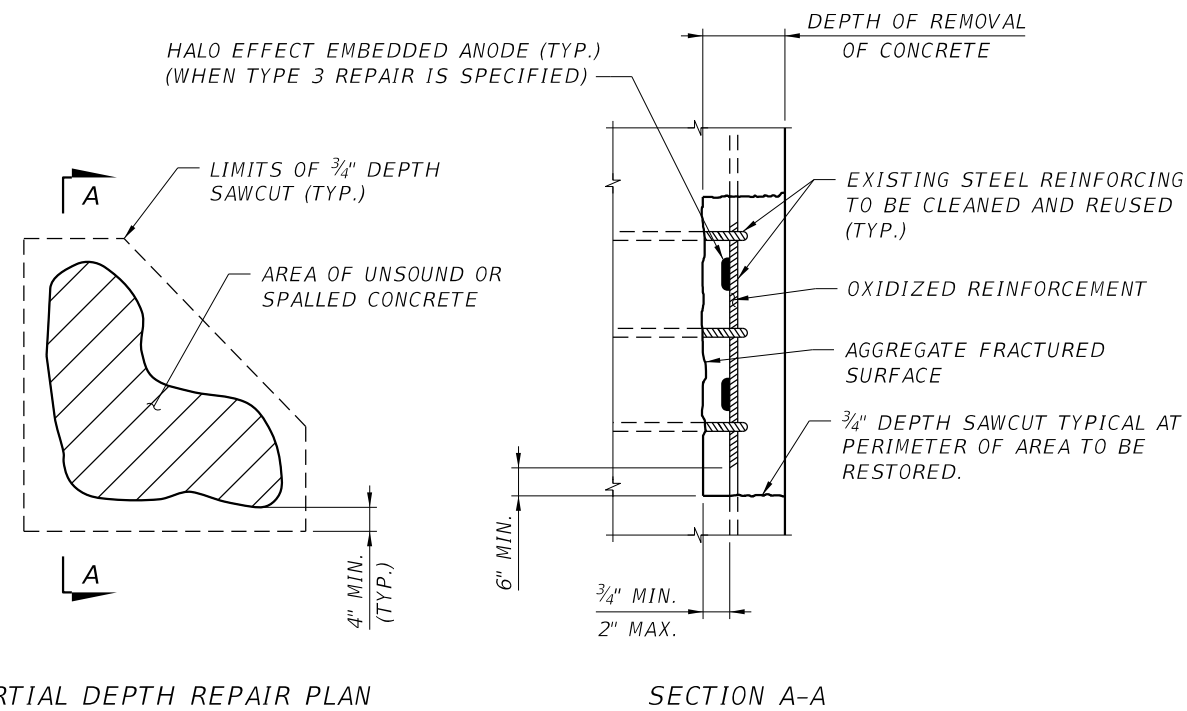
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BOUNDARY OF UNSOUND (LOOSE AND/OR DELAMINATED CONCRETE) OR SPALLED CONCRETE

RECOMMENDED BOUNDARY LAYOUT OF AREA TO BE REPAIRED

TYPICAL SPALL REPAIR PERIMETER CONFIGURATIONS



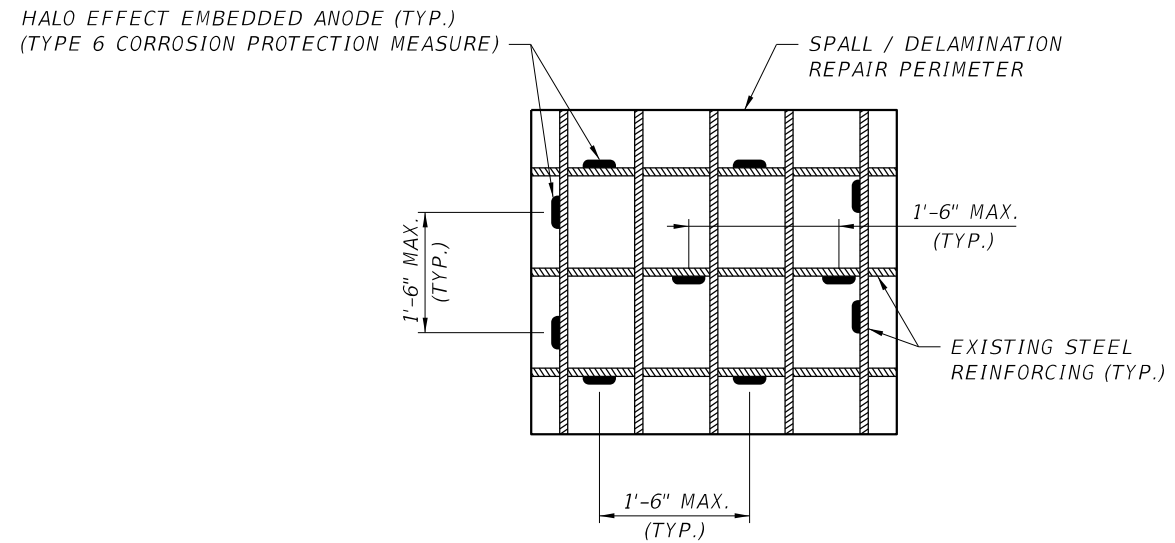
PARTIAL DEPTH REPAIR PLAN

SECTION A-A

SPALL REPAIR DETAILS

SPALL / DELAMINATION REPAIR NOTES:

1. COMPLY WITH THE PROVISIONS OF TECHNICAL SPECIAL PROVISION (TSP) SECTION T401, RESTORING SPALLED CONCRETE.
2. EXISTING REINFORCEMENT: IF EXISTING REINFORCING EXHIBITS MORE THAN 25 PERCENT SECTION LOSS, REPLACE WITH SAME SIZE BAR; DRILL AND EPOXY NEW BAR INTO PLACE COMPLYING WITH MINIMUM EMBEDMENT LENGTH AND LAP SPLICE REQUIREMENTS PER THE "DOWEL DETAIL" THIS SHEET SERIES.
3. FORMWORK ANCHORAGE:
 - A. AS DETERMINED BY THE CONTRACTOR, FORMWORK MAY BE ANCHORED WITH STAINLESS STEEL ANCHOR INSERTS.
 - B. LOCATE INSERTS ONLY IN SOUND CONCRETE.
 - C. INSERTS ARE PERMITTED TO REMAIN IN PLACE.
 - D. RECESS INSERTS THAT ARE PROPOSED TO REMAIN IN PLACE AND PATCH WITH A "TYPE AB" EPOXY COMPOUND.
 - E. SUBMIT SHOP DRAWINGS FOR TYPICAL PROPOSED ANCHORAGES; INCLUDE PRODUCT DATA AND INSTALLATION PROCEDURES AS A PART OF THE SUBMITTAL.
4. GENERAL:
 - A. PLAN REPAIR TO PREVENT THE FORMATION OF VOIDS.
 - B. PLACE MORTAR/CONCRETE BY PRESSURE INJECTION UNLESS OTHERWISE APPROVED BY THE ENGINEER.
 - C. MATCH REPAIR MORTAR/CONCRETE SURFACE TO SURROUNDING CONCRETE SURFACES.
 - D. PROVIDE "V" GROOVE CONSTRUCTION JOINTS AND DRIP NOTCHES TO MATCH EXISTING.
 - E. OPEN CONSTRUCTION JOINTS ARE NOT PERMITTED.
5. TYPE 3 SPALL/DELAMINATION REPAIR: COMPLY WITH THE PROVISIONS OF TECHNICAL SPECIAL PROVISION (TSP) SECTION T455, HALO EFFECT SPALL GALVANIC ANODE FOR INCORPORATION OF CORROSION PROTECTION MEASURE TYPE 6, HALO EFFECT EMBEDDED ANODE.
6. FOR PROPOSED LOCATIONS OF SUBSTRUCTURE TYPE 2 AND TYPE 3 CONCRETE SPALL/DELAMINATION REPAIRS, REFERENCE REPAIR "SCHEDULE B", SHEETS B1-19 TO B1-22 AND "SCHEDULE X", SHEET B1-35.
7. FOR PROPOSED LOCATIONS OF SUPERSTRUCTURE TYPE 2 CONCRETE SPALL/DELAMINATION REPAIRS, REFERENCE REPAIR "SCHEDULE C", SHEETS B1-23 TO B1-27.



**SPACING DENSITY LAYOUT FOR HALO EFFECT EMBEDDED ANODES
TYPE 3 SPALL / DELAMINATION REPAIRS**

TYPE 2 SPALL / DELAMINATION REPAIR

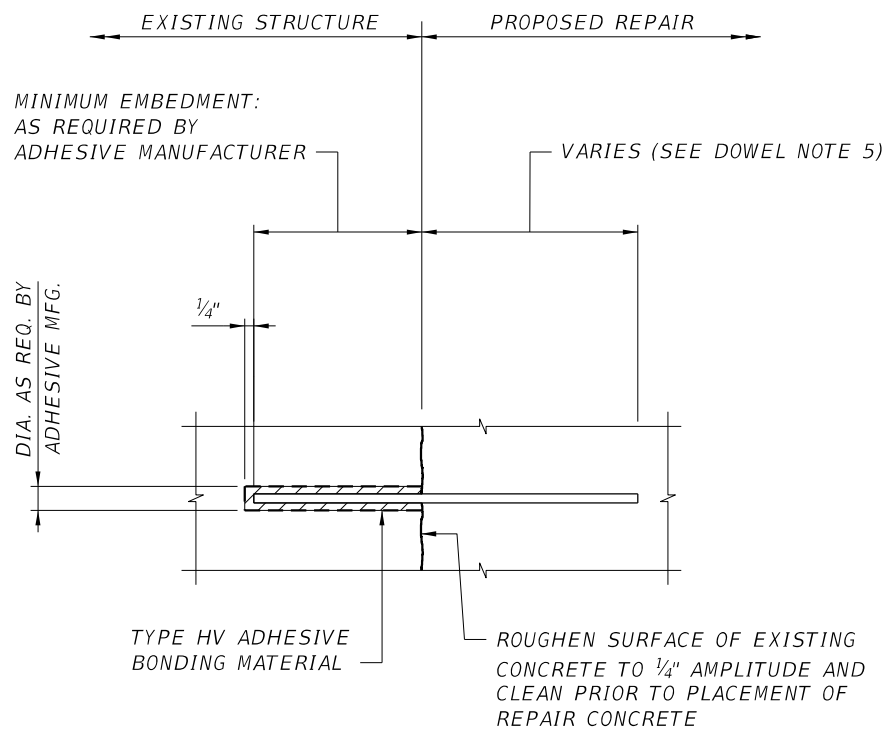
TYPE 3 SPALL / DELAMINATION REPAIR WITH TYPE 6 CORROSION PROTECTION MEASURE

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPALL / DELAMINATION REPAIR DETAILS (1 OF 2)	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-28	
60% SUBMITTAL SUBJECT TO CHANGE						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607						

12/13/2024 4:01:21 PM amanazur c:\bms\lcc-pw-01\alex manzur\0253256\B1\misc\Det03.dgn

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



DOWEL DETAIL

BAR SIZE	DEVELOPMENT LENGTH	LAP SPLICE
4	1'-1"	1'-5"
5	1'-4"	1'-9"
6	1'-7"	2'-1"
7	1'-10"	2'-5"
8	2'-1"	2'-9"
9	2'-4"	3'-1"

TABLE A

DOWEL NOTES:

1. PREPARATION AND INSTALLATION: UNLESS OTHERWISE NOTED, PREPARE CONCRETE MEMBERS AND INSTALL DOWELS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 416, INSTALLATION OF POST-INSTALLED ANCHOR SYSTEMS AND DOWELS FOR STRUCTURAL APPLICATIONS IN CONCRETE ELEMENTS.
2. ADHESIVE BONDING MATERIAL SYSTEM: TYPE HV ADHESIVE MATERIAL MEETING THE REQUIREMENTS OF STANDARD SPECIFICATIONS SECTION 937 AND INCLUDED ON THE APPROVED PRODUCTS LIST (APL).
3. MINIMUM LAP SPLICE LENGTHS: REFERENCE "TABLE A" THIS SHEET FOR MINIMUM LAP SPLICE VALUES FOR VARYING DOWEL BAR DIAMETERS.
4. MINIMUM EMBEDMENT LENGTH INTO EXISTING STRUCTURE CONCRETE: PROVIDE AS REQUIRED BY ADHESIVE MANUFACTURER FOR VARYING DOWEL BAR DIAMETERS.
5. MINIMUM EMBEDMENT (DEVELOPMENT) LENGTH INTO PROPOSED REPAIR CONCRETE: REFERENCE "TABLE A" THIS SHEET FOR MINIMUM EMBEDMENT VALUES FOR VARYING DOWEL BAR DIAMETERS; THIS LENGTH INCREASES AS REQUIRED TO MAINTAIN A MINIMUM LAP SPLICE LENGTH AT DOWEL LOCATIONS REQUIRING LAPPING TO EXISTING OR PROPOSED REINFORCING.
6. HOLE EDGE CLEARANCE: MAINTAIN A MINIMUM 3-INCH CLEARANCE FROM THE EDGE OF CONCRETE WHEN LOCATING HOLES.
7. REINFORCING CONFLICTS: WHERE EXISTING REINFORCING IS ENCOUNTERED, SHIFT THE HOLE LOCATION TO CLEAR THE REINFORCING CONFLICT; FILL THE UNUSED DRILLED HOLE WITH A "TYPE AB" EPOXY COMPOUND PER STANDARD SPECIFICATIONS SECTION 926.
8. TIE AND HOOP REINFORCEMENT CONFLICTS: WHERE A REINFORCING BAR TO BE REPLACED IS NEAR THE SURFACE OF THE ELEMENT, TIES AND HOOPS MAY PREVENT DRILLING TO INSTALL A DOWEL; FOR THIS CASE, USE A LAP SPLICE AND REMOVE ADDITIONAL CONCRETE AS NEEDED TO ACHIEVE THE REQUIRED SPLICE LENGTH.

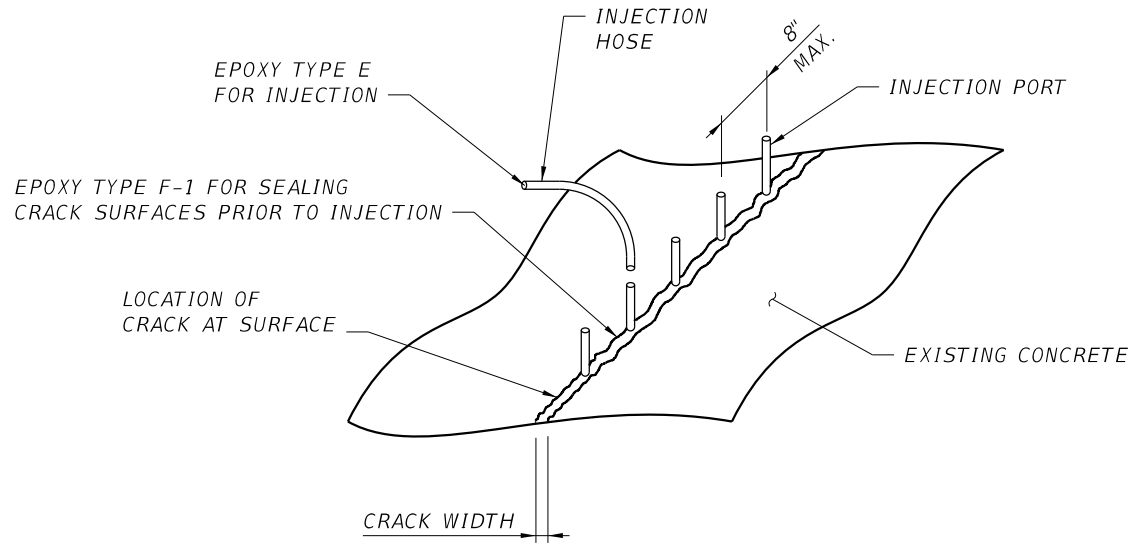
TYPE 2 SPALL / DELAMINATION REPAIR
TYPE 3 SPALL / DELAMINATION REPAIR WITH TYPE 6 CORROSION PROTECTION MEASURE

BRIDGE NO. 170061

12/13/2024 4:01:22 PM amanazur c:\bms\lcc-pw-01\alex manzur\0255256\B1\Misc\Det03.dgn

REVISIONS					DRAWN BY: AGM 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPALL / DELAMINATION REPAIR DETAILS (2 OF 2)	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
						SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-29	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607						

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



EPOXY INJECTION REPAIR DETAIL

CRACK REPAIR NOTES:

1. COMPLY WITH THE PROVISIONS OF STANDARD SPECIFICATIONS SECTION 411, EPOXY INJECTION OF CRACKS IN CONCRETE STRUCTURES.
2. SOUND TEST AROUND CRACK PRIOR TO COMMENCING INJECTION WORK TO CONFIRM THAT THE CRACK IS NOT ASSOCIATED WITH A CONCRETE DELAMINATION; SHOULD SOUNDING DETERMINE THAT A DELAMINATION EXISTS, DO NOT PROCEED WITH INJECTION OF THE CRACK AND NOTIFY THE ENGINEER FOR FURTHER INSTRUCTION.
3. FOR PROPOSED LOCATIONS OF SUBSTRUCTURE TYPE 4 CONCRETE CRACK REPAIRS (BY EPOXY INJECTION), REFERENCE REPAIR "SCHEDULE B", SHEETS B1-19 TO B1-22 AND "SCHEDULE X", SHEET B1-35.
4. FOR PROPOSED LOCATIONS OF SUPERSTRUCTURE TYPE 4 CONCRETE CRACK REPAIRS (BY EPOXY INJECTION), REFERENCE REPAIR "SCHEDULE C", SHEETS B1-23 TO B1-27.

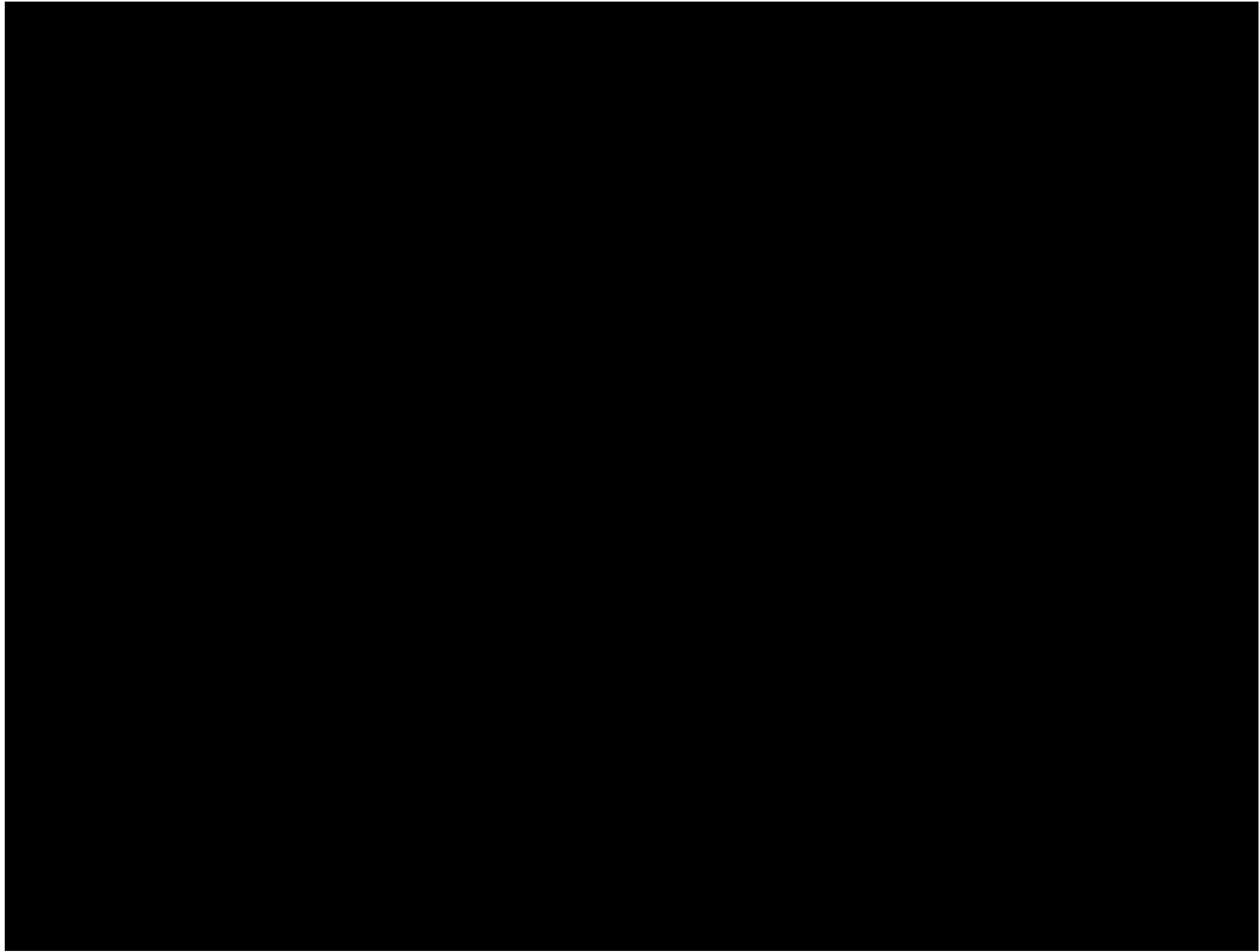
TYPE 4 CRACK REPAIR (BY EPOXY INJECTION)

BRIDGE NO. 170061

12/13/2024 4:01:22 PM amanzur c:\bms\lcc-pw-01\alex manzur\0255256\B1\Misc\Det03.dgn

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

REVISIONS						GUSTAVO A. LLANOS, P.E. P.E. LICENSE NUMBER 73518 BCC ENGINEERING, LLC 4905 WEST LAUREL STREET, SUITE 301 TAMPA, FL 33607	DRAWN BY: AGM 12-24 CHECKED BY: WEJ 12-24 DESIGNED BY: WEJ 12-24 CHECKED BY: GAL 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01	CRACK REPAIR DETAILS			
									SR 758 OVER SARASOTA BAY	B1-30		



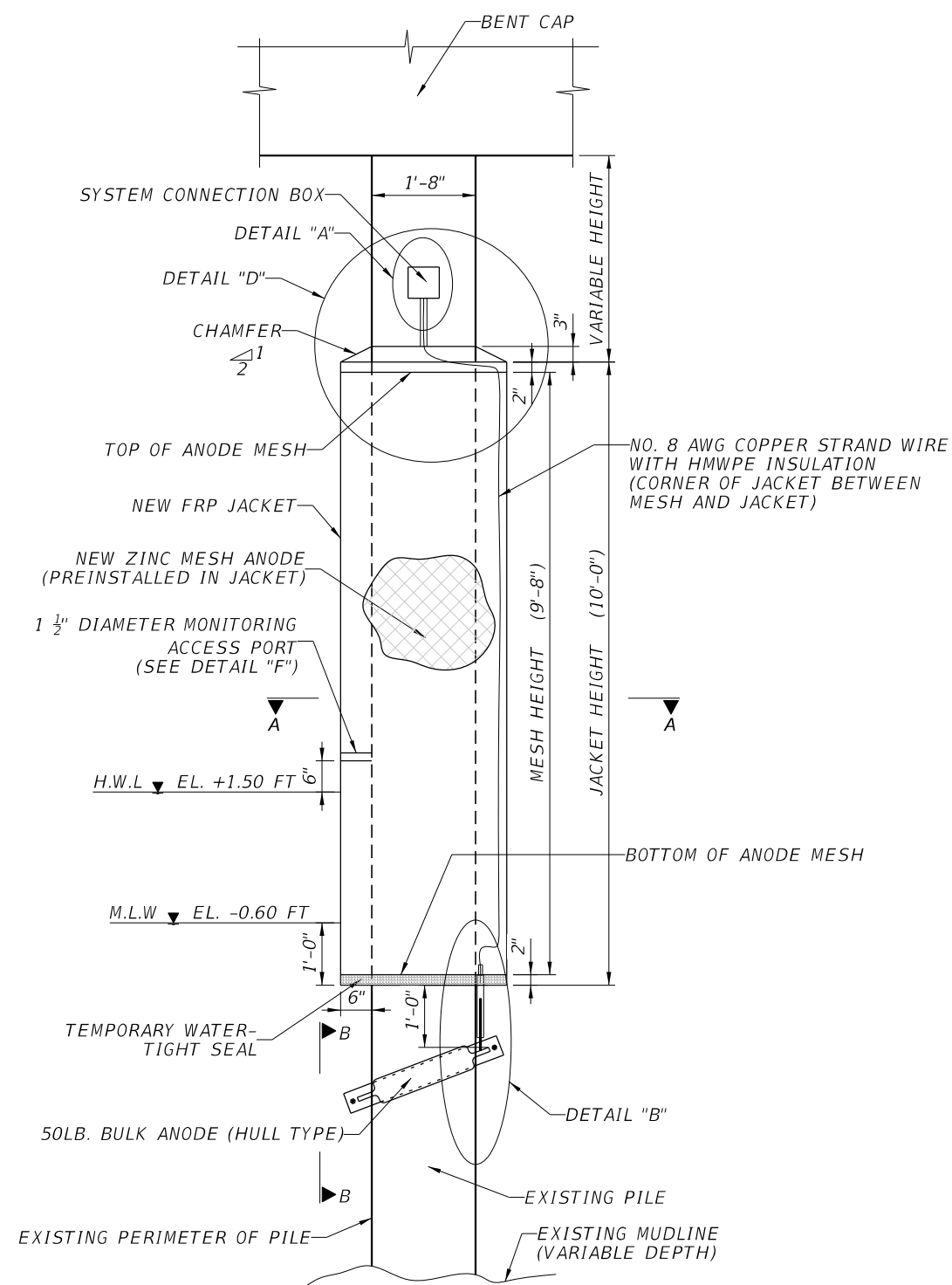
BRIDGE NO. 170061

REVISIONS					DRAWN BY: DKC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	CATHODIC PROTECTION PILE JACKET ELEVATION
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-31

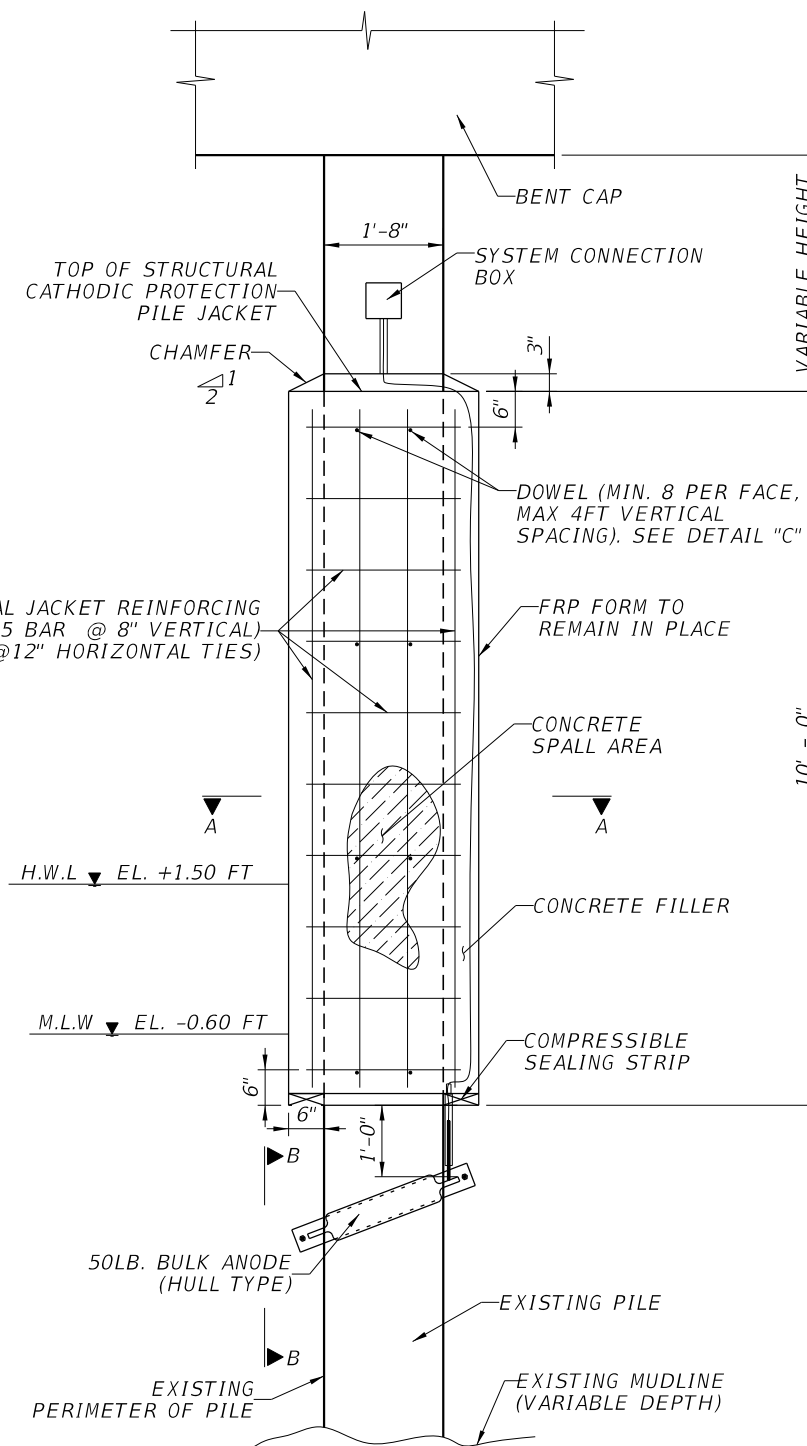
PAUL ERIC VINIK, P.E.
P.E. LICENSE NUMBER 63032
GREENMAN, PEDERSEN, INC.
1051 WINDERLEY PLACE, SUITE 400
MAITLAND, FL 32751

PROJECT NAME:	SR 758 OVER SARASOTA BAY	SHEET NO.	B1-31
---------------	--------------------------	-----------	-------

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



**CATHODIC PROTECTION JACKET
BENT PILE**
SCALE 3/8"-1'



**STRUCTURAL CATHODIC PROTECTION
BENT PILE JACKET**
SCALE 3/8"-1'

***NOTES**

1. INSTALL CATHODIC PROTECTION PILE JACKETS AT LOCATIONS AS SHOWN IN SCHEDULE "A" TABLES IN THE REPAIRS SCHEDULE SHEETS AS DIRECTED IN THESE PLANS AND TSP T457.
2. INSTALL THE BULK ANODES AND CONNECTION BOX ON THE FACE OF THE PILE MORE ACCESSIBLE FOR MAINTENANCE AS APPROVED BY THE ENGINEER.
3. INSTALL TERMINAL CONNECTION BOXES AT AN ELEVATION JUST ABOVE THE CHAMFER NOT TO EXCEED 6 INCHES FROM TOP OF THE FRP FORM.
4. INSTALL REDUNDANT NEGATIVE CONNECTIONS FOR THE NEW AND THE EXISTING REINFORCEMENT.
5. DRILL HOLES FOR BOLTS IN THE BULK ANODE CHANNEL PRIOR TO HOT DIP GALVANIZING.
6. USE STAINLESS STEEL 316 DROP ANCHORS AND HARDWARE FOR ATTACHMENT OF CONDUIT AND MONITORING BOXES TO THE PILE CONCRETE. USE 316 STAINLESS STEEL SCREWS FOR THE BOXES COVER.
7. FABRICATE HARD-BACKING TO ACCOMMODATE STANDOFFS HEAD TO AVOID JACKET DEFORMATION.
8. REMOVE ALL HARD-BACKING AND SUPPORTS FROM THE PILES AFTER COMPLETING THE JACKET INSTALLATION.
9. SEE DETAILS IN SHEET "CATHODIC PROTECTION PILE JACKET DETAILS (2 OF 2)".

BRIDGE NO. 170061

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
60% SUBMITTAL SUBJECT TO CHANGE					

PAUL ERIC VINIK, P.E.
P.E. LICENSE NUMBER 63032
GREENMAN, PEDERSEN, INC.
1051 WINDERLEY PLACE, SUITE 400
MAITLAND, FL 32751

DRAWN BY:
DKC 12-24
CHECKED BY:
FNC 12-24
DESIGNED BY:
IRL 12-24
CHECKED BY:
REV 12-24

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 758	SARASOTA	451280-1-52-01

SHEET TITLE:

CATHODIC PROTECTION PILE JACKET DETAIL (1 OF 2)

PROJECT NAME:

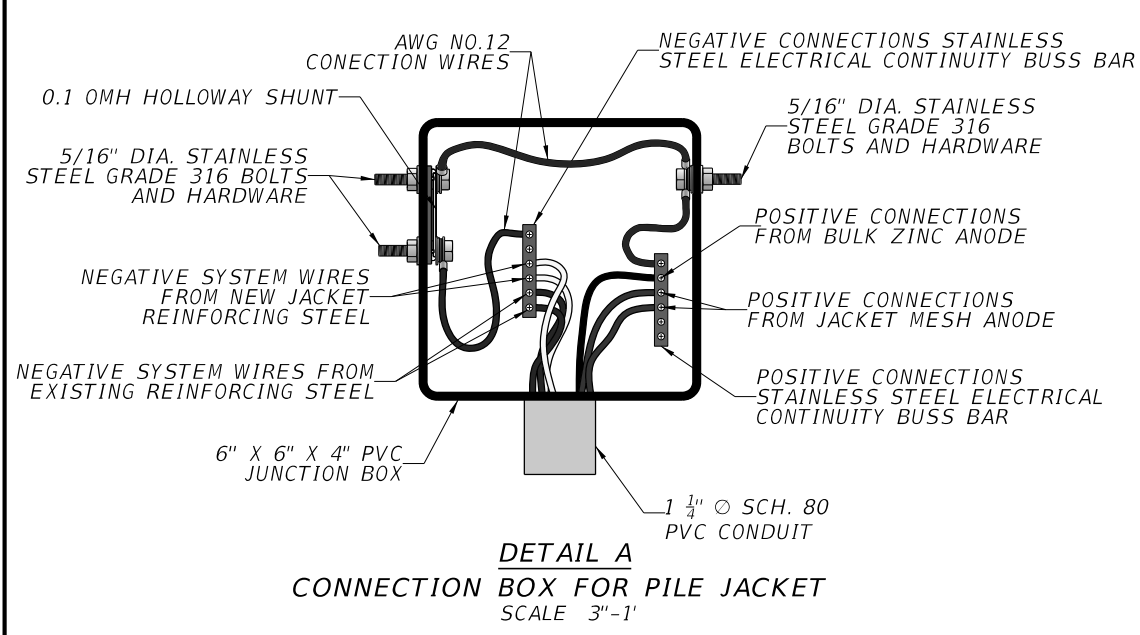
SR 758 OVER SARASOTA BAY

REF. DWG. NO.

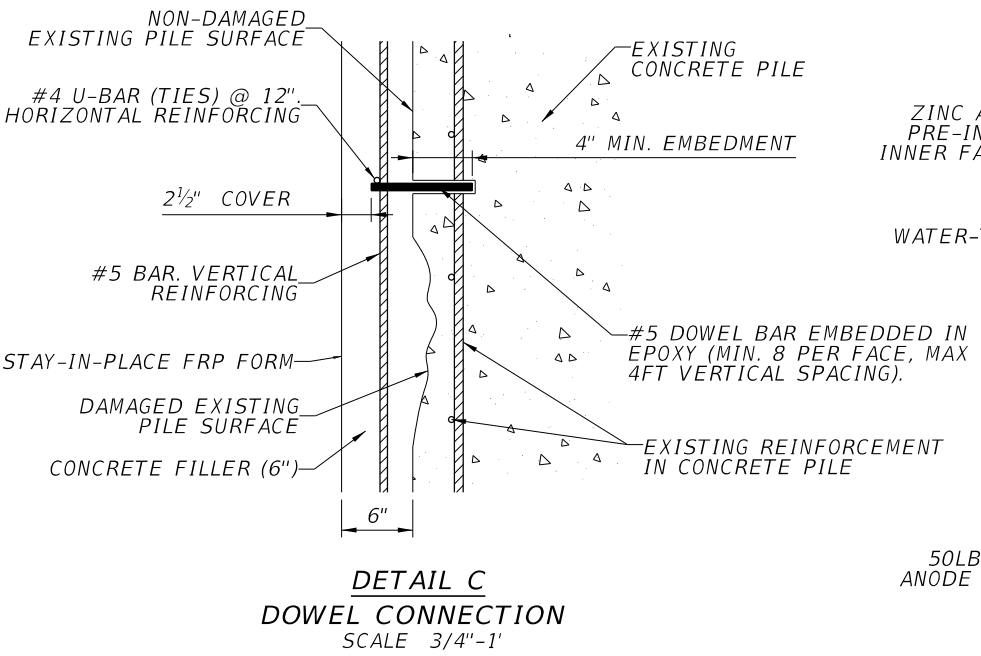
SHEET NO.

B1-32

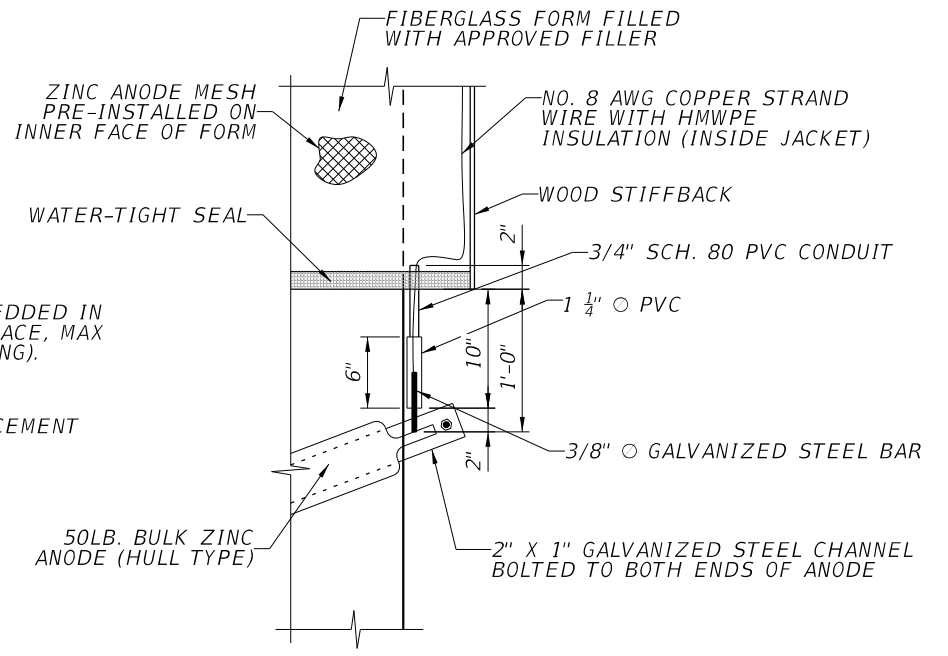
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



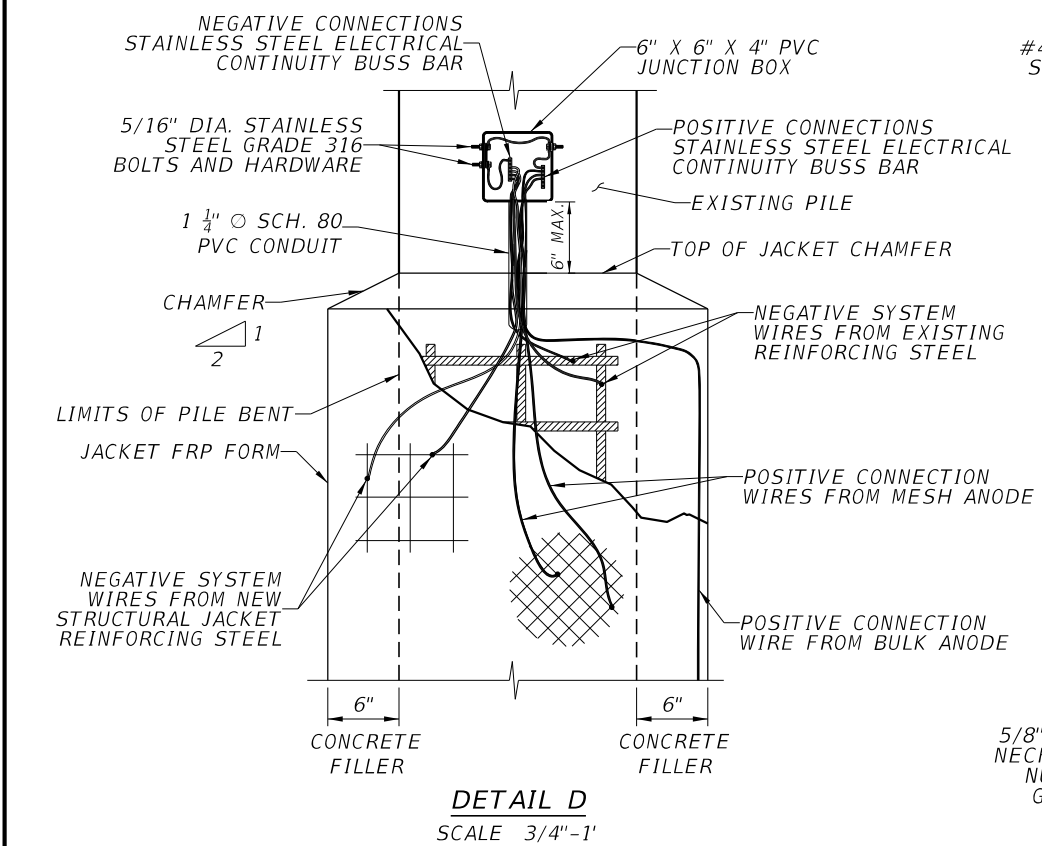
DETAIL A
CONNECTION BOX FOR PILE JACKET
SCALE 3"-1'



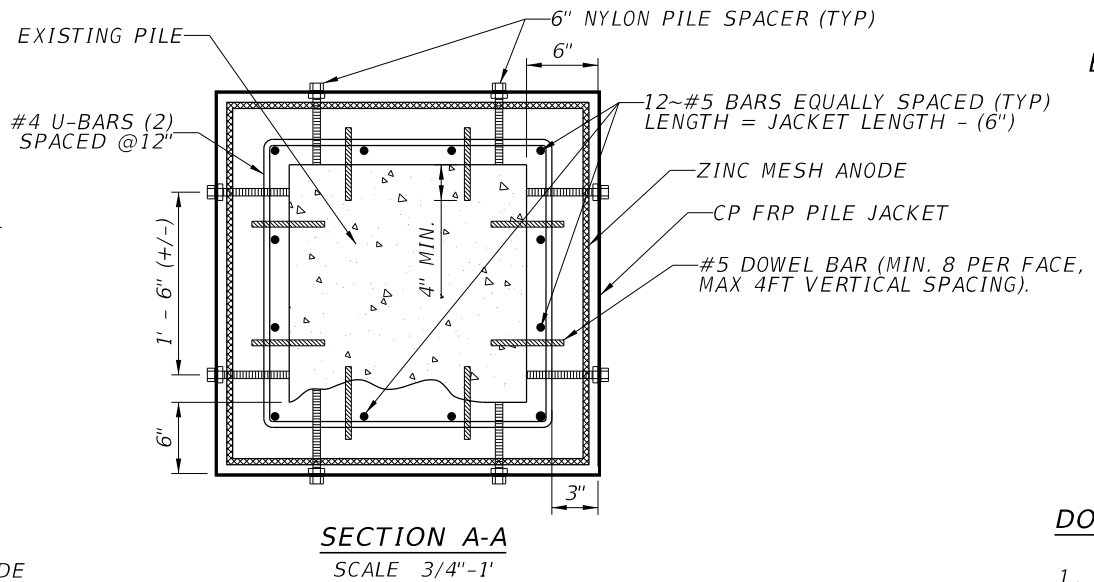
DETAIL C
DOWEL CONNECTION
SCALE 3/4"-1'



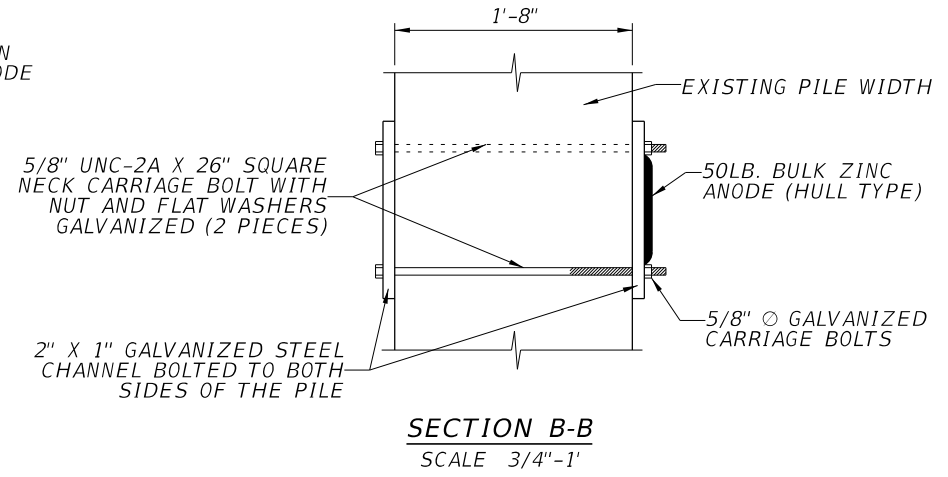
DETAIL B
BULK ZINC ANODE WIRE CONNECTION
SCALE 3/4"-1'



DETAIL D
SCALE 3/4"-1'



SECTION A-A
SCALE 3/4"-1'



SECTION B-B
SCALE 3/4"-1'

DOWEL CONNECTION NOTES:

1. WIRE TIE ALL INTERSECTIONS OF DOWEL AND REINFORCING CAGE.
2. NO FLAME CUTTING OF REINFORCING STEEL WILL BE ALLOWED.
3. ENSURE THAT THE DOWEL IS ELECTRICALLY DISCONTINUOUS FROM THE EXISTING STEEL REINFORCEMENT BY CONTINUITY TESTING.
4. TRIM EXCESS LENGTH OF DOWEL AFTER EMBEDMENT AS REQUIRED TO PROVIDE 2 1/2" OF COVER.
5. HOLES FOR DOWEL BARS SHALL BE DRY AND THOROUGHLY CLEANED PRIOR TO PLACING EPOXY AND DOWELS.
6. HOLES SHALL HAVE A MINIMUM OF 3" CLEARANCE FROM THE EDGE OF THE CONCRETE.
7. THE DOWELS SHALL BE SET IN A STRUCTURAL ADHESIVE BONDING COMPOUND DESIGNATED AS TYPE HV. SEE FDOT APPROVED PRODUCTS LIST (APL) AND FDOT STANDARD SPECIFICATIONS SECTIONS 416 AND 937 FOR DETAILS.
8. WHERE REINFORCING STEEL IS ENCOUNTERED, SHIFT THE HOLE TO CLEAR AND SEAL THE UNUSED DRILLED HOLE WITH EPOXY.

BRIDGE NO. 170061

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
60% SUBMITTAL SUBJECT TO CHANGE					

PAUL ERIC VINIK, P.E.
P.E. LICENSE NUMBER 63032
GREENMAN, PEDERSEN, INC.
1051 WINDERLEY PLACE, SUITE 400
MAITLAND, FL 32751

DRAWN BY: DKC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: FNC 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
DESIGNED BY: IRL 12-24	SR 758	SARASOTA	451280-1-52-01
CHECKED BY: REV 12-24			

SHEET TITLE: CATHODIC PROTECTION PILE JACKET DETAIL (2 OF 2)	REF. DWG. NO.
PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-33

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

TEMPORARY TRAFFIC CONTROL PLAN NOTES

1. THE EXISTING POSTED SPEED LIMITS (40 MPH) SHALL BE MAINTAINED AT ALL TIMES.
2. ALL PCMS BOARDS SHALL BE PLACED 14 DAYS IN ADVANCE TO ADVERTISE ANY LANE CLOSURE.
3. NOTIFY ALL LOCAL LAW ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY TWENTY-FOUR (24) HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES. ALSO, NOTIFY THE COAST GUARD IF CHANNEL DISRUPTIONS ARE EXPECTED.
4. SARASOTA COUNTY EMS CONTACT NUMBER: (941) 861-5000
5. MAINTAIN PEDESTRIAN TRAFFIC OPEN AT ALL TIMES THROUGH SIESTA KEY BRIDGE EB LANE CLOSURE* BY UTILIZING PEDESTRIAN ESCORT/FLAGGER ON BOTH SIDES OF THE WORK ZONE. THE ESCORT/FLAGGER WILL ENSURE PEDESTRIANS CAN SAFELY TRAVERSE THE ACTIVE WORK ZONE AND WILL CLOSELY MONITOR PEDESTRIAN TRAFFIC ON BOTH SIDES OF THE BRIDGE.
6. MAINTAIN THE CURRENT POSTED SCHEDULE FOR BRIDGE OPENING FOR BOAT TRAFFIC FOR THE DURATION OF THE PROJECT.

LANE CLOSURE RESTRICTIONS

SINGLE LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS:

LANE CLOSURES ARE NOT ALLOWED BETWEEN 8:00 AM - 9:00 PM

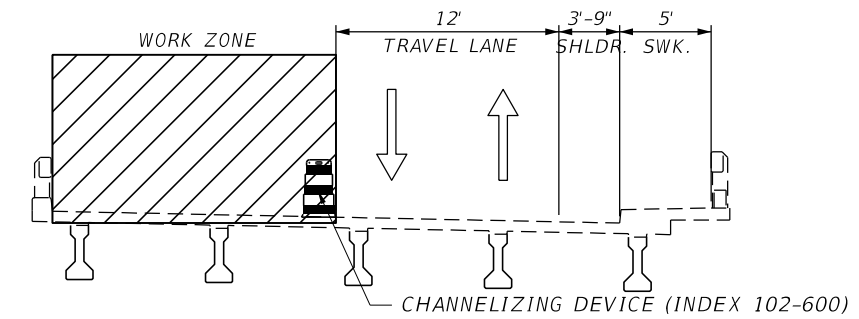
A LANE MAY BE CLOSED ONLY DURING ACTIVE WORK PERIODS.

MAINTENANCE OF TRAFFIC

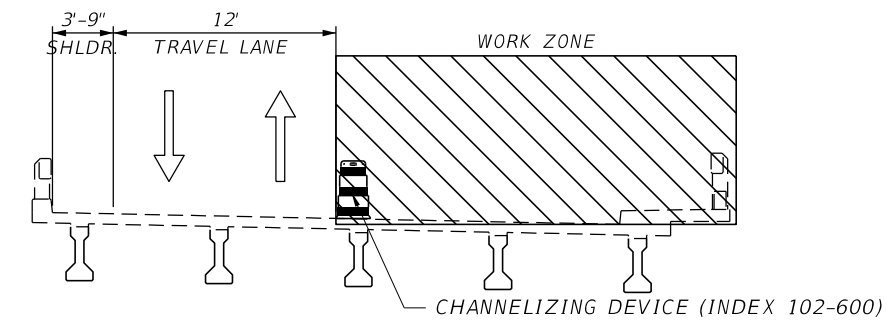
WORK OPERATIONS SHALL UTILIZE STANDARD PLAN INDEX 102 FOR ALL TTCP WORK AS WELL AS THE FOLLOWING INDEX NUMBERS AS APPROPRIATE:

A. APPROACH SPANS, CONCRETE SUBSTRUCTURE AND SUPERSTRUCTURE REPAIRS AND BASCULE SPAN REPAIRS: 102-600 AND 102-603.

UTILIZE SINGLE LANE CLOSURE PER TYPICAL SECTION.



TYPICAL SECTION
SIESTA KEY BRIDGE WB LANE CLOSURE

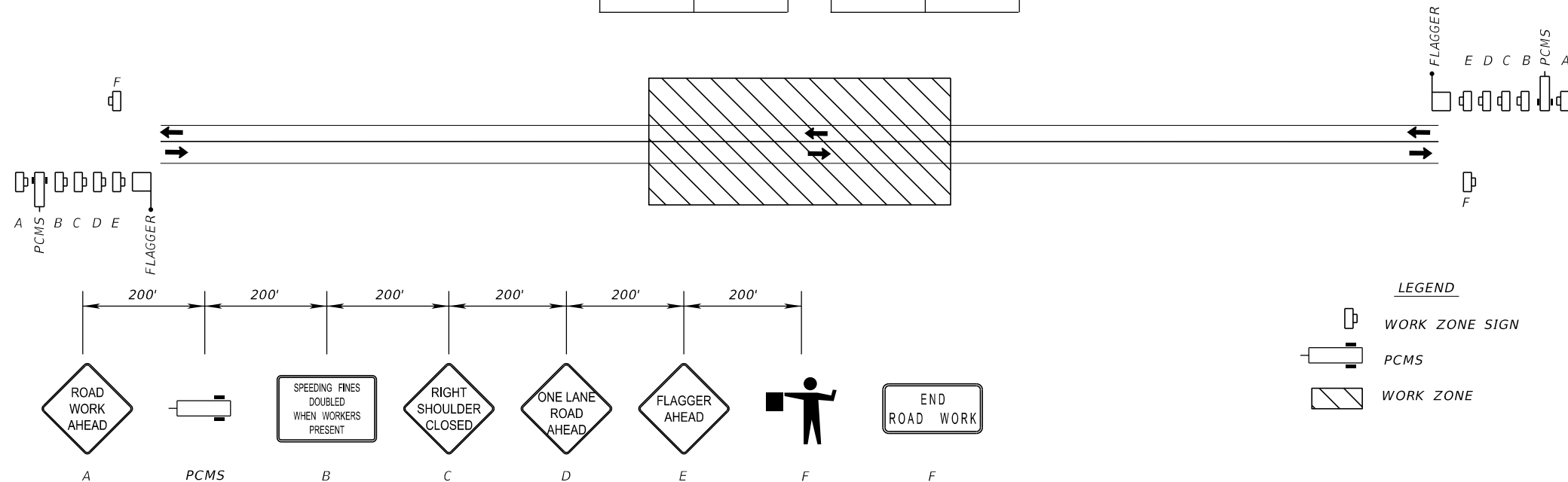


TYPICAL SECTION
SIESTA KEY BRIDGE EB LANE CLOSURE*

NOT TO SCALE

PCMS

14 DAYS PRIOR TO LANE CLOSURE		DURING LANE CLOSURE	
DISPLAY 1	DISPLAY 2	DISPLAY 1	DISPLAY 2
SIESTA DR LANE CLOSURES	(BEGIN DATE TO END DATE)	LANE CLOSED AHEAD	MERGE LEFT/RIGHT



LEGEND

- WORK ZONE SIGN
- PCMS
- WORK ZONE



NOT TO SCALE
BRIDGE NO. 170061

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

60% SUBMITTAL
SUBJECT TO CHANGE

NICOLAS ECHARTE ANEZ, P.E.
P.E. LICENSE NUMBER 91105
BCC ENGINEERING, LLC
4905 WEST LAUREL STREET, SUITE 301
TAMPA, FL 33607

DRAWN BY: NE 12-12	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: RS 12-13	ROAD NO.	COUNTY	FINANCIAL PROJECT ID
DESIGNED BY: NE 12-12	SR 758	SARASOTA	451280-1-52-01
CHECKED BY: RS 12-13			

SHEET TITLE: TRAFFIC CONTROL PLANS	REF. DWG. NO.
PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-34

12/16/2024 11:37:15 AM amanazur c:\bms\bcc-pw-01\alex_manzur\0255245\TCPLR001.dgn

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

BASCULE PIER NOTES:

A. CONCRETE REPAIRS:

SCHEDULE X BASCULE PIER CATEGORY 2 CONCRETE REPAIRS AND CATEGORY 3 CATHODIC PROTECTION MEASURES														
REPAIR ID NO.	BASCULE PIER	SUBSTRUCTURE ELEMENT DEFICIENCY				PROPOSED REPAIR TYPE	REPAIR QUANTITIES							
		BIR ELEMENT NO.	DESCR.	LOCATION	DESCRIPTION		PROJECTED REPAIR AREA/VOLUME				CATEGORY 2 RESTORE SPALLED AREAS AND CRACK REPAIRS			CATEGORY 3 CATHODIC PROTECTION MEASURES
											RESTORE SPALLED AREA	EPOXY MATERIAL FOR CRACK INJECTION	CRACKS INJECT & SEAL	HALO EFFECT GALVANIC ANODE
							DIAMETER	LENGTH	WIDTH	DEPTH	401-70-2	411-1	411-2	455-81-106
IN	IN	IN	IN	CF	GAL	LF	EA							
BP-1	PIER 9	210	WALL & FLOOR	MULTIPLE LOCATIONS (WALLS, FLOORS)	POP-OUT SPALLS. UP TO 3" DIA. x 1/2" DEEP WITH EXPOSED PAINTED REBAR (5 LOCATIONS)	TYPE 2		12	12	4	1.67			
BP-2	PIER 9	210	WALL	WEST WALL, MACHINERY BAY 1 WEST FACE, EXTENDING FROM HIGH WATER MARK	DELAMINATION. 5'-0" DIA.	TYPE 2 / TYPE 6	60			4	6.54			12
BP-3	PIER 9	210	FLOOR	MACHINERY ROOM FLOOR, WEST FACE OVER BAYS 1 AND 2	DELAMINATED REPAIR. 4'-0" x 1'-10"	TYPE 2		48	22	3	1.83			
BP-4	PIER 9	210	WALL	SOUTH WALL, WEST FACE, AT FLOOR ADJACENT TO TRUNNION PEDESTAL	TWO SPALLS. UP TO 1'-3" x 1'-0" x 2" WITH EXPOSED REBAR WITH UP TO 20% SECTION LOSS	TYPE 2		30	24	4	3.33			
BP-5	PIER 9	210	WALL	SOUTH END OF WEST WALL FACE BELOW DECK UNDERSIDE	DELAMINATION/SPALL. UP TO 2'-6"x1'-8"x2" WITH EXPOSED REBAR	TYPE 2		42	32	4	3.11			
BP-6	PIER 10	210	WALL	WEST WALL, WEST FACE, 10'-0" BELOW MAIN GIRDER 9-2	SPALL. 6' x 4" x 1/2" WITH EXPOSED REBAR WITH UP TO 20% SECTION LOSS	TYPE 2 / TYPE 6		18	12	4	0.50			2
BP-7	PIER 10	210	WALL	WEST WALL, WEST FACE, AT CONTROL HOUSE JUST ABOVE THE CANTILEVERED SUPPORTS	CRACK. MULTI-DIRECTION, UP TO 5'-0" x 1/64"	TYPE 4		60	1/64			1	5	
BP-8	PIER 10	210	WALL	EAST WALL, WEST FACE INSIDE CONTROL HOUSE AT FLOOR ADJACENT TO THE MECHANICAL ROOM DOOR	SPALL. 1'-0" x 7" x 3/4" WITH EXPOSED REBAR WITH UP TO 20% SECTION LOSS	TYPE 2		24	18	4	1.00			
SCHEDULE X TOTALS											18.0	1	5	14

- SEE GENERAL NOTES FOR SPALL REPAIR DETAILS AND REPAIR NOTES.
- ALL CONCRETE REPAIR LOCATIONS ARE APPROXIMATE. FIELD VERIFY AND REPORT ANY DISCREPANCIES, OR DEFICIENCIES NOT IDENTIFIED BY SCHEDULE X, TO THE ENGINEER.

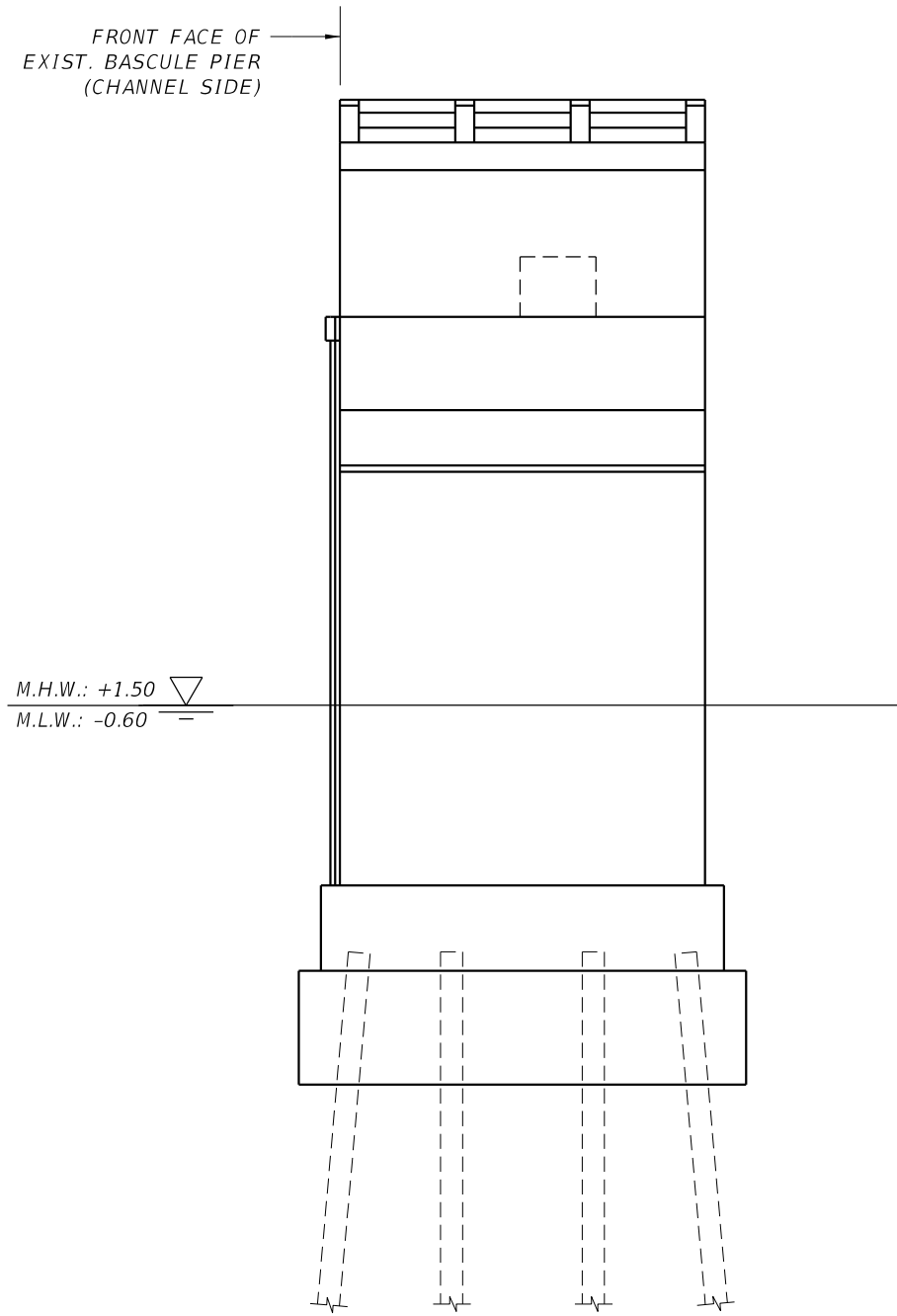
B. ABBREVIATIONS:

N.S. = NEAR SIDE
F.S. = FAR SIDE

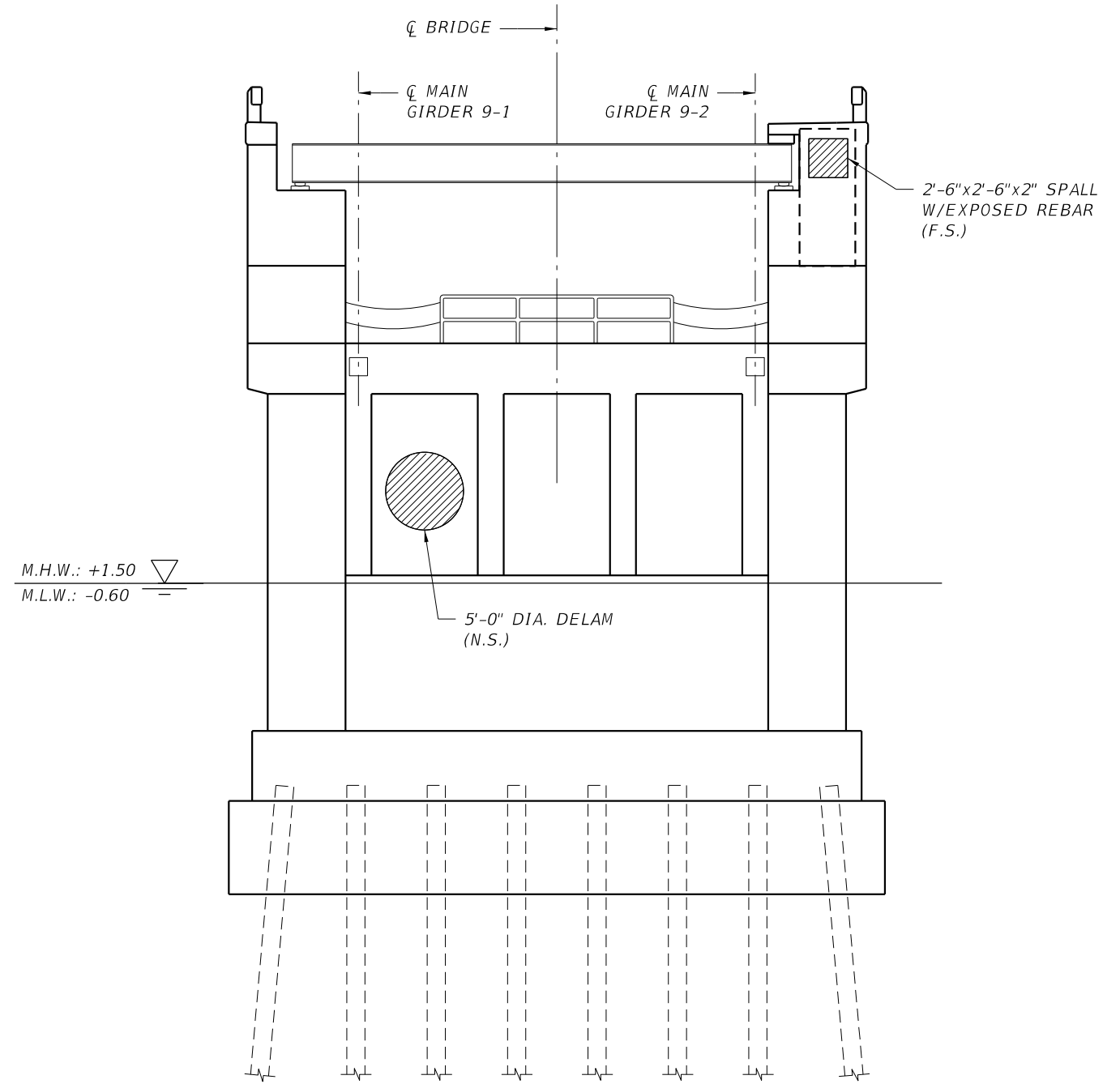
BRIDGE NO. 170061

REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE PIER NOTES		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: JPN 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	
					60% SUBMITTAL SUBJECT TO CHANGE	DESIGNED BY: QPO 12-24	758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		
						CHECKED BY: JPN 12-24					SHEET NO. BP-1	
											SHEET NO. B1-35	

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



NORTH ELEVATION



WEST ELEVATION

NOTES:

1. BASCULE LEAF, FLANKING SPAN SUPERSTRUCTURE, AND FENDER ACCESS LADDERS & PLATFORMS NOT SHOWN.
2. DIMENSIONS OF CONCRETE REPAIR ARE APPROXIMATE.
3. FOR CONCRETE REPAIR SCHEDULE, SEE DWG. NO. BP-1.

LEGEND:

DENOTES CONCRETE REPAIR

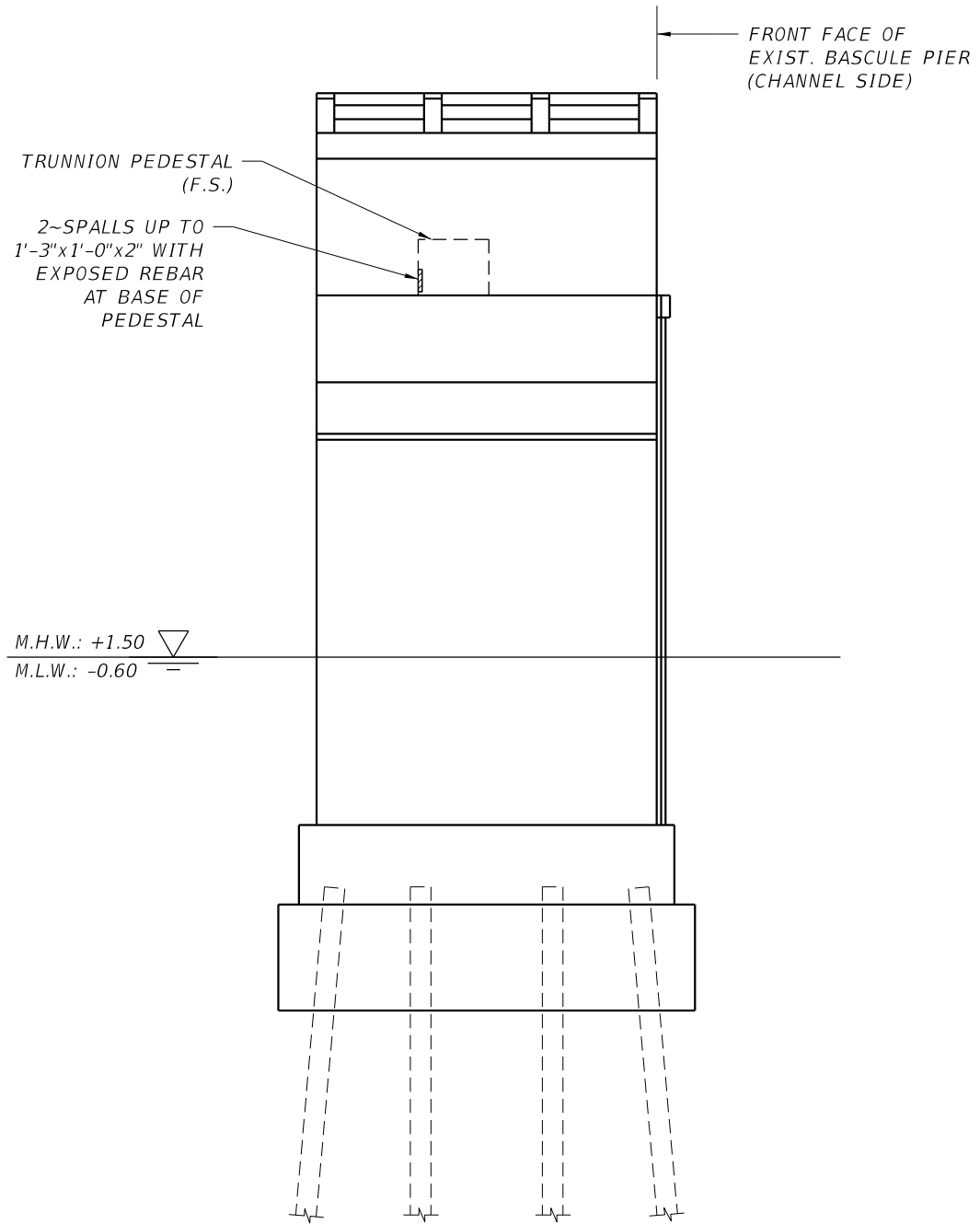
BRIDGE NO. 170061

REVISIONS					DRAWN BY: AC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE PIER 9 - NORTH AND WEST ELEVATIONS		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY		BP-2
					CHECKED BY: JPN 12-24	758	SARASOTA	451280-1-52-01			SHEET NO.
					DESIGNED BY: AC 12-24						BI-36
					CHECKED BY: JPN 12-24						

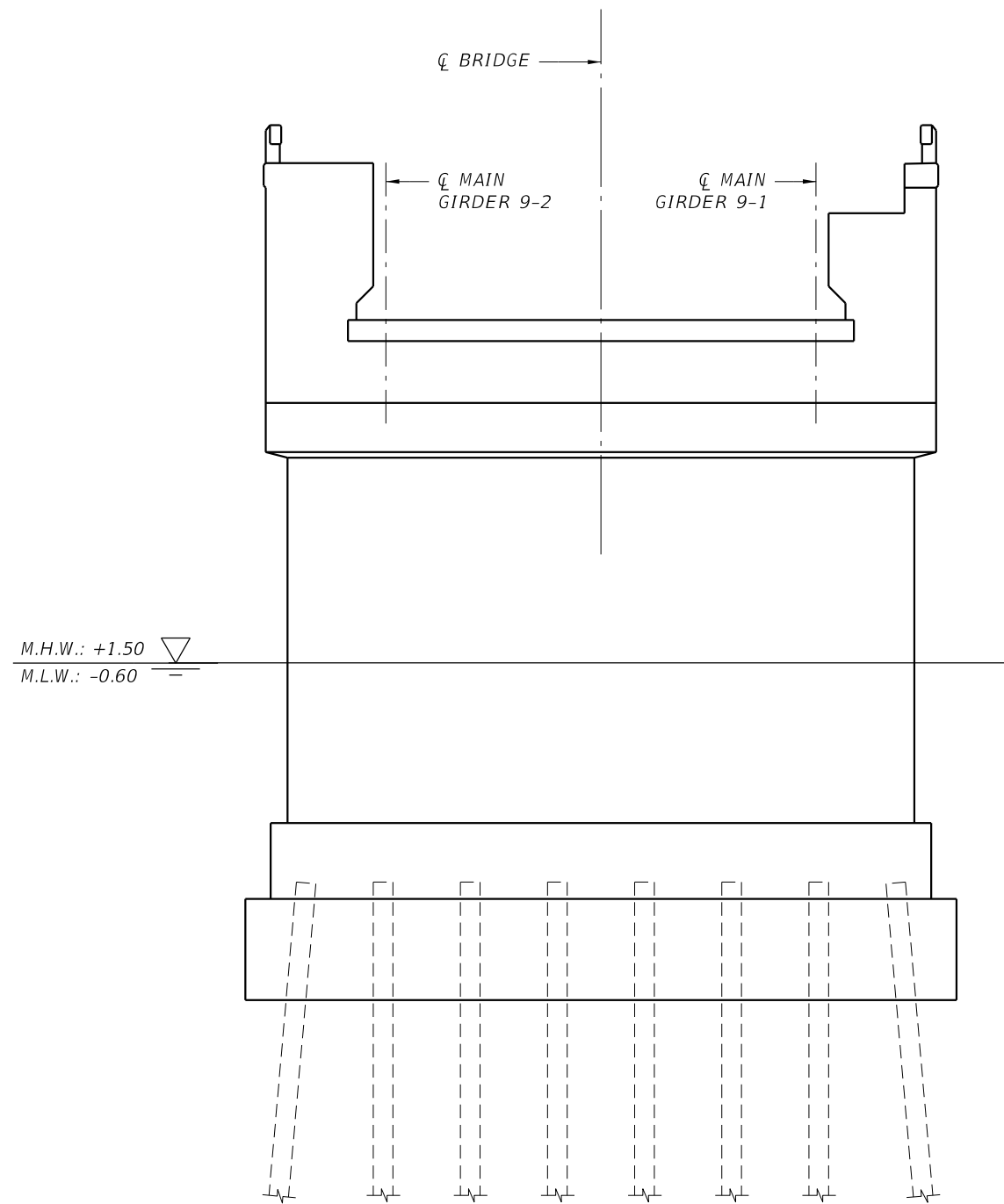
60% SUBMITTAL
SUBJECT TO CHANGE

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



SOUTH ELEVATION



EAST ELEVATION

NOTES:

1. BASCULE LEAF, FLANKING SPAN SUPERSTRUCTURE, AND FENDER ACCESS LADDERS & PLATFORMS NOT SHOWN.
2. DIMENSIONS OF CONCRETE REPAIR AREAS ARE APPROXIMATE.
3. FOR CONCRETE REPAIR SCHEDULE, SEE DWG. NO. BP-1.

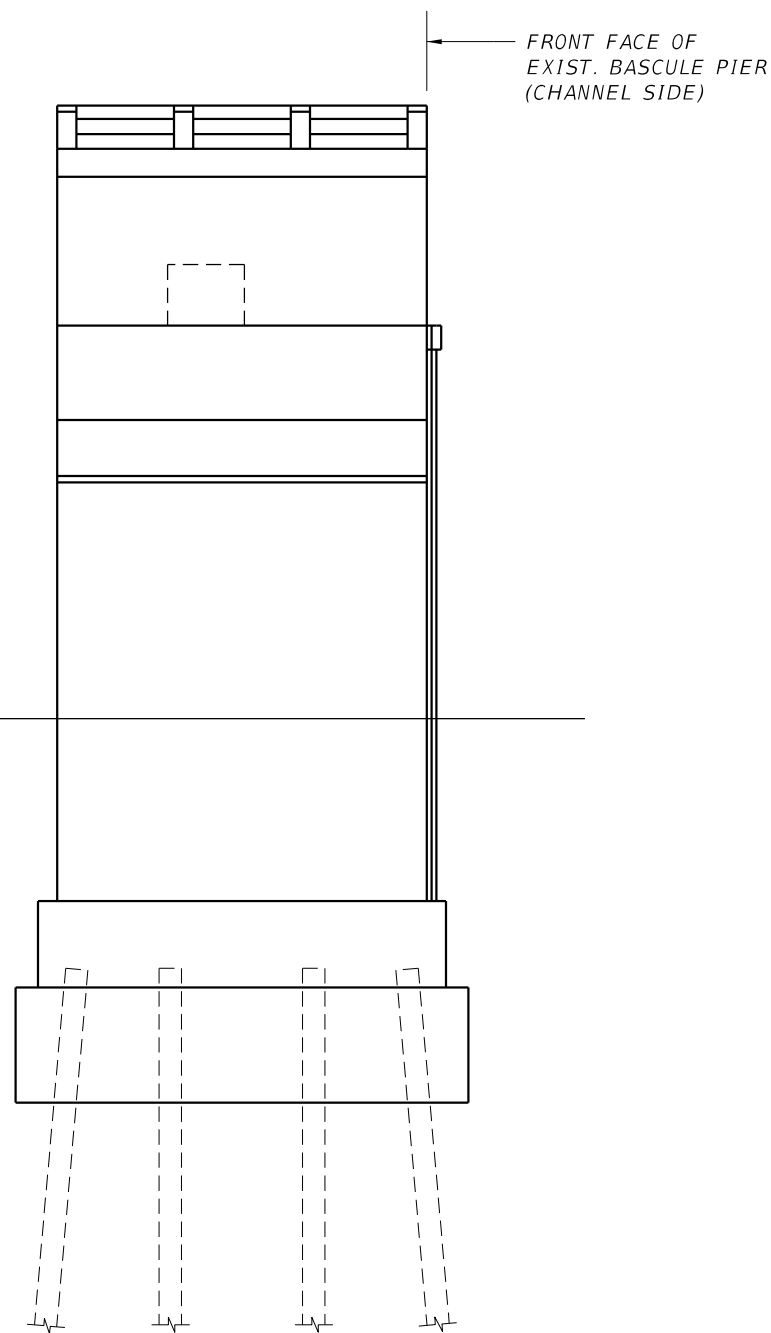
LEGEND:



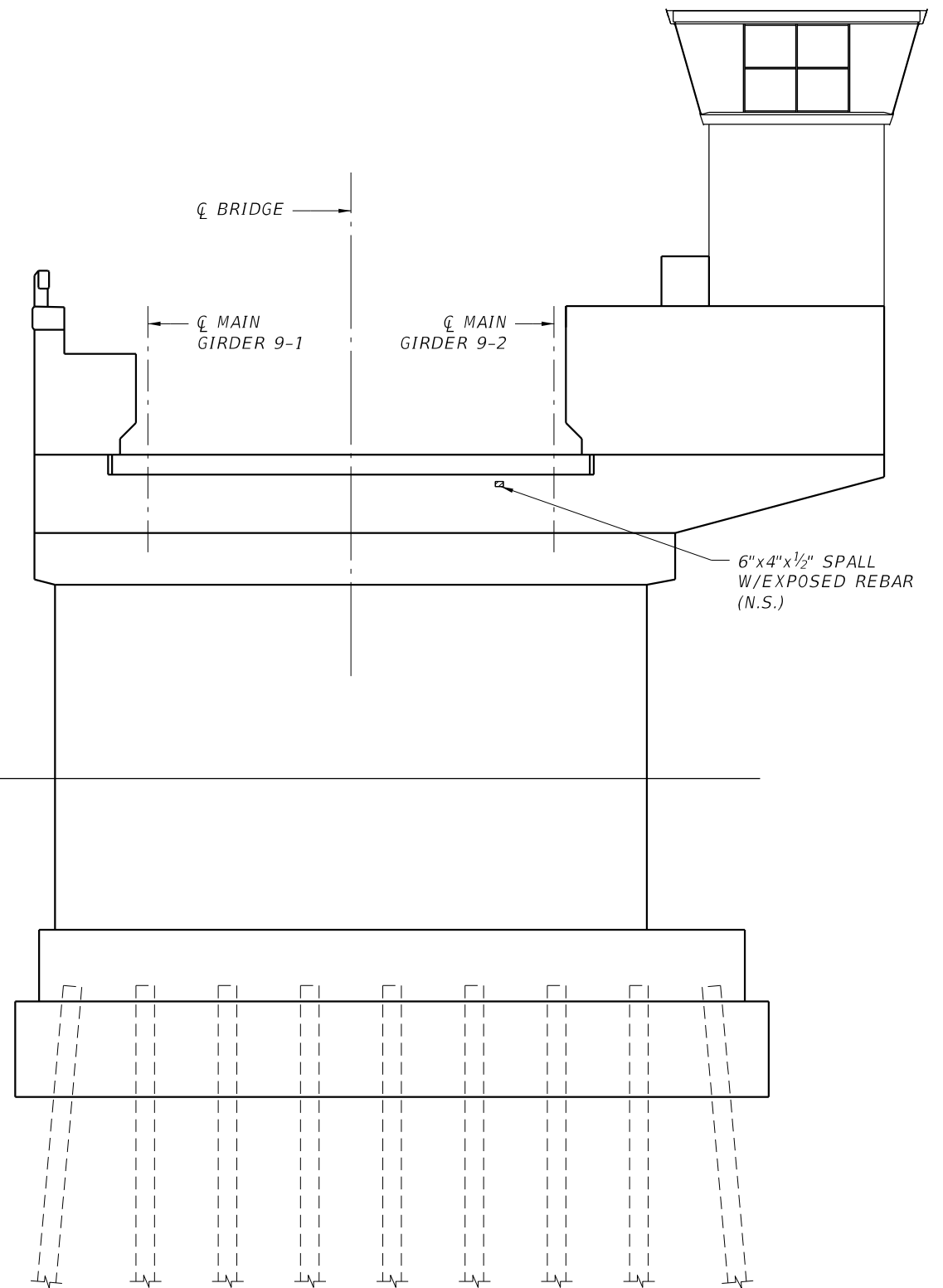
DENOTES CONCRETE REPAIR

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE PIER 9 - SOUTH AND EAST ELEVATIONS	REF. DWG. NO. BP-3	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
					60% SUBMITTAL SUBJECT TO CHANGE		758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-37	
						JAMES P. NEWBERRY, P.E. License Number: 73365 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						



NORTH ELEVATION



WEST ELEVATION

NOTES:

1. BASCULE LEAF, FLANKING SPAN SUPERSTRUCTURE, AND FENDER ACCESS LADDERS & PLATFORMS NOT SHOWN.
2. DIMENSIONS OF CONCRETE REPAIR ARE APPROXIMATE.
3. FOR CONCRETE REPAIR SCHEDULE, SEE DWG. NO. BP-1.

LEGEND:

DENOTES CONCRETE REPAIR

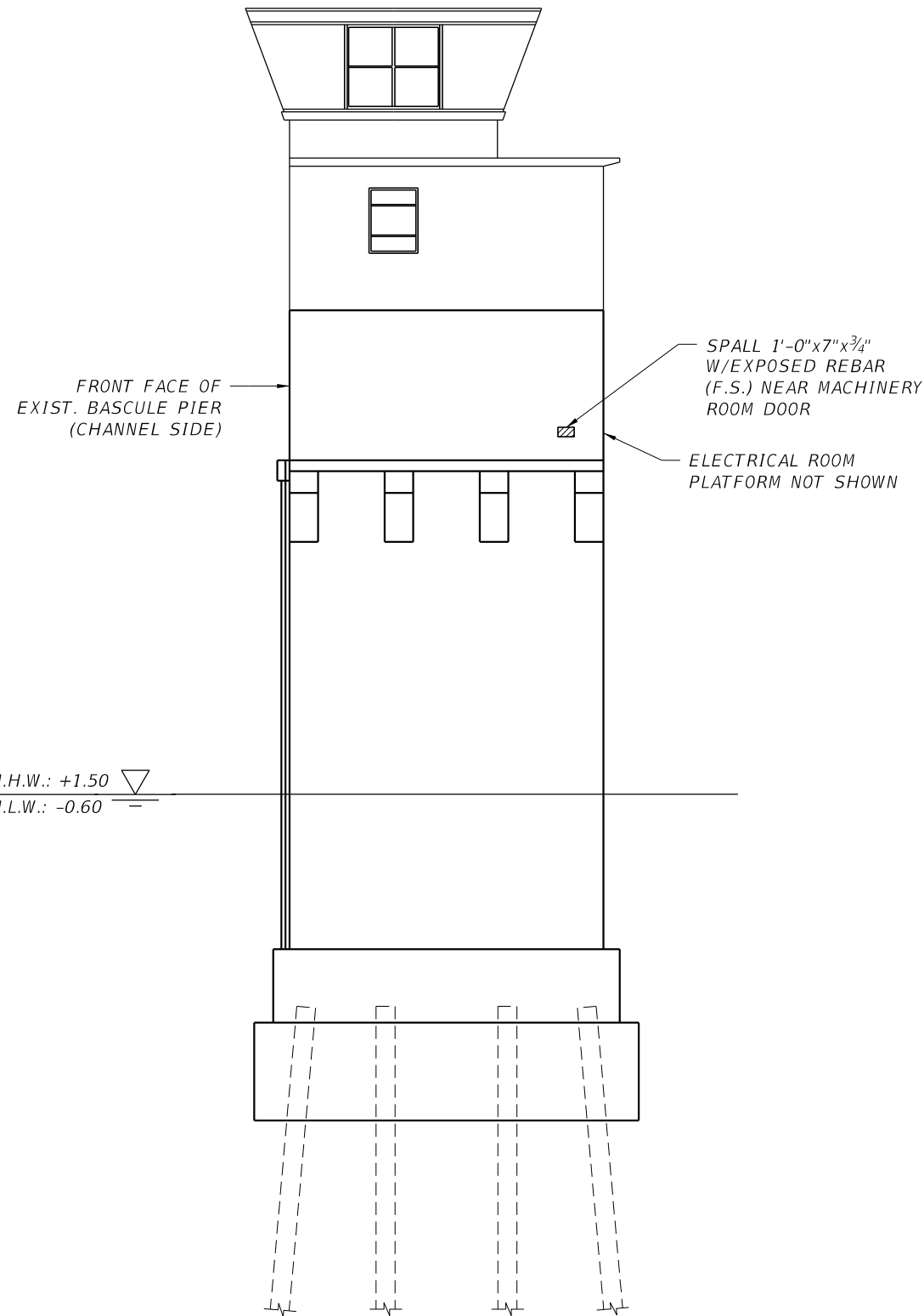
BRIDGE NO. 170061

REVISIONS					DRAWN BY: AC 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE PIER 10 - NORTH AND WEST ELEVATIONS		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		
					CHECKED BY: JPN 12-24	758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		BP-4
					DESIGNED BY: AC 12-24						SHEET NO.
					CHECKED BY: JPN 12-24						B1-38

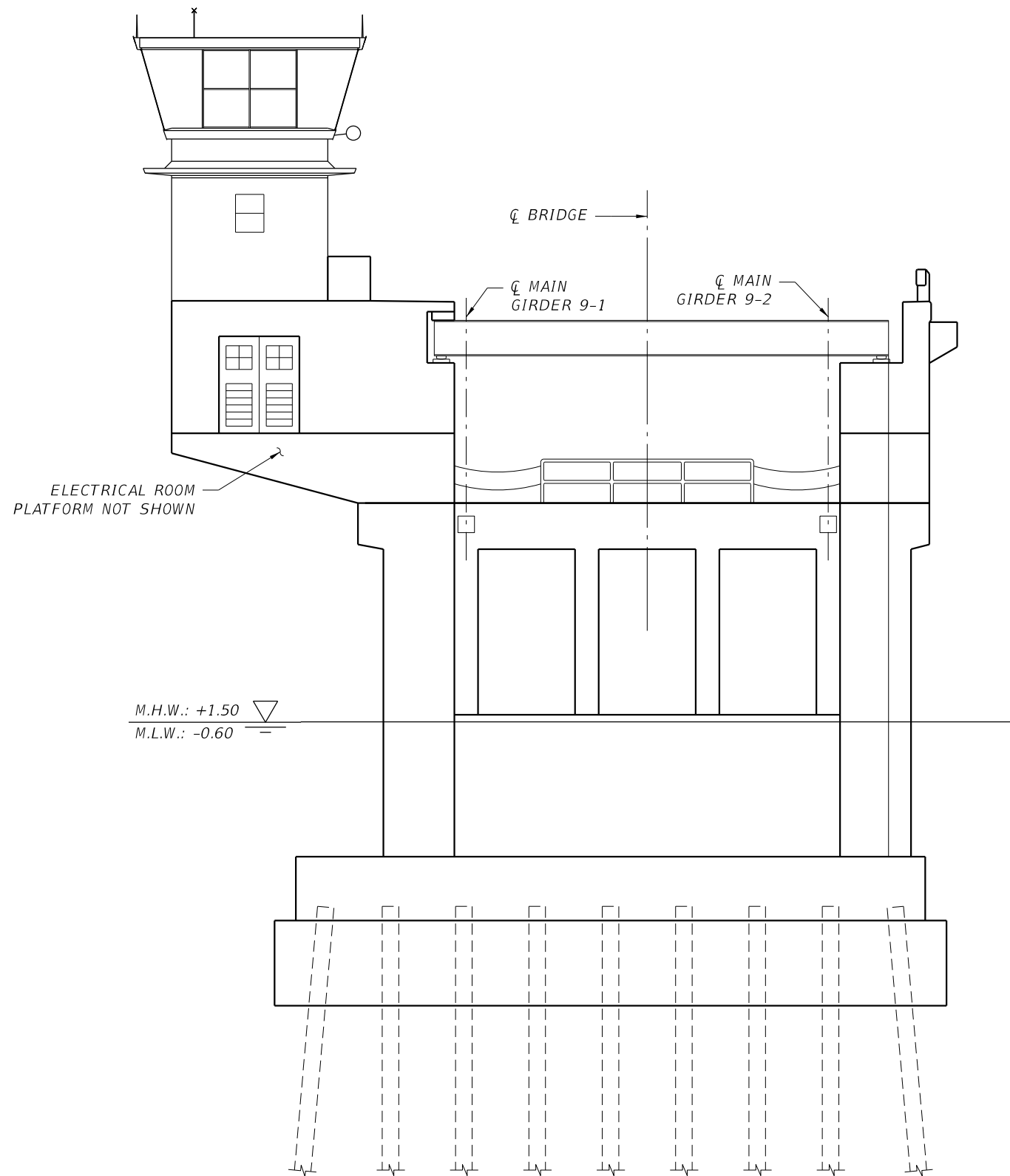
60% SUBMITTAL
SUBJECT TO CHANGE

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



SOUTH ELEVATION



EAST ELEVATION

NOTES:

1. BASCULE LEAF, FLANKING SPAN SUPERSTRUCTURE, AND FENDER ACCESS LADDERS & PLATFORMS NOT SHOWN.
2. DIMENSIONS OF CONCRETE REPAIR ARE APPROXIMATE.
3. FOR CONCRETE REPAIR SCHEDULE, SEE DWG. NO. BP-1.

LEGEND:

DENOTES CONCRETE REPAIR

BRIDGE NO. 170061

REVISIONS						DRAWN BY: AC 12-24 CHECKED BY: JPN 12-24 DESIGNED BY: AC 12-24 CHECKED BY: JPN 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	FINANCIAL PROJECT ID		SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	BASCULE PIER 10 - SOUTH AND EAST ELEVATIONS		
		60% SUBMITTAL SUBJECT TO CHANGE				758	SARASOTA	451280-1-52-01		SR 758 OVER SARASOTA BAY		SHEET NO. B1-39

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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

BASCULE LEAF NOTES:

A. DESIGN SPECIFICATIONS:

1. AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS 2ND EDITION, 2007 AND APPROVED INTERIMS.
2. FDOT STRUCTURES MANUAL (JANUARY 2024)

B. MATERIALS:

1. STRUCTURAL STEEL:
 - MATERIAL: ASTM A709 GR. 50 (U.N.O.)
2. STEEL CONNECTIONS:
 - UNLESS NOTED OTHERWISE, BOLTED CONNECTIONS FOR STRUCTURAL STEEL (SHOP OR FIELD) SHALL BE MADE WITH 7/8" DIA. ASTM A325 (TYPE 1) HIGH-STRENGTH (H.S.) BOLTS PLACED IN 15/16" DIAMETER HOLES.
 - BOLTS AND CORRESPONDING NUTS AND WASHERS SHALL BE MECHANICALLY GALVANIZED IN ACCORDANCE WITH ASTM B695 CLASS 50.
 - THE NUTS SHALL BE OVERTAPPED TO THE MINIMUM AMOUNT REQUIRED FOR THE FASTENER ASSEMBLY AND COATED WITH A LUBRICANT AT THE TIME OF INSTALLATION.
 - BOLTED STEEL CONNECTION COMPUTED RESISTANCE IS BASED ON A CLASS A (SLIP COEFFICIENT OF 0.33) CONTACT SURFACE PER ASSHTO LRFD.
 - UNLESS NOTED OTHERWISE, WELDS SHALL BE CONTINUOUS FILLET WELDS WITH SIZE SHOWN IN PLANS. ELECTRODE SHALL BE E70XX. FIELD WELDING IS NOT ALLOWED, UNLESS NOTED OTHERWISE.
3. STEEL COATINGS:
 - WHERE SPECIFIED, STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION PER ASTM A123 AND THE SPECIFICATIONS.
 - REFER TO GENERAL NOTES FOR STEEL PAINTING REQUIREMENTS.
4. SPAN LOCK ACCESS PLATFORM GRATING:
 - [TO BE COMPLETED FOR NEXT SUBMITTAL]
5. CONCRETE FILLED STEEL GRID DECK REPAIRS:
 - [TO BE COMPLETED FOR NEXT SUBMITTAL]

C. CONSTRUCTION:

1. EXISTING SPAN BALANCE:
THE LEAF BALANCE WAS LAST TESTED BY THE DEPARTMENT FOR THE NEAR LEAF ON NOVEMBER 19, 2012, AND FOR THE FAR LEAF ON DECEMBER 12, 2012. THE RESULTS OF THE BALANCE TESTING ARE AS FOLLOWS:

<u>NEAR LEAF:</u>		<u>FAR LEAF:</u>	
WL:	193.2 KIP-FT	WL:	176.9 KIP-FT
ALPHA:	15.1°	ALPHA:	18.3°
AVTF:	15.8 KIP-FT	AVTF:	25.3 KIP-FT

WHERE WL DENOTES THE MAGNITUDE OF SPAN UNBALANCED MOMENT (I.E. W X L)
 W DENOTES THE TOTAL LEAF WEIGHT
 L DENOTES THE RADIAL DISTANCE FROM THE C TRUNNION TO LEAF C.G. THROUGH THE TRUNNION EXTENDING TOWARD THE TIP OF THE LEAF
 ALPHA DENOTES THE ANGLE OF THE LEAF C.G. RELATIVE TO A HORIZONTAL LINE THROUGH THE TRUNNION EXTENDING TOWARD THE TIP OF THE LEAF (POSITIVE ANGLE IS ABOVE THE LINE)
 AVTF DENOTES THE AVERAGE TRUNNION FRICTION

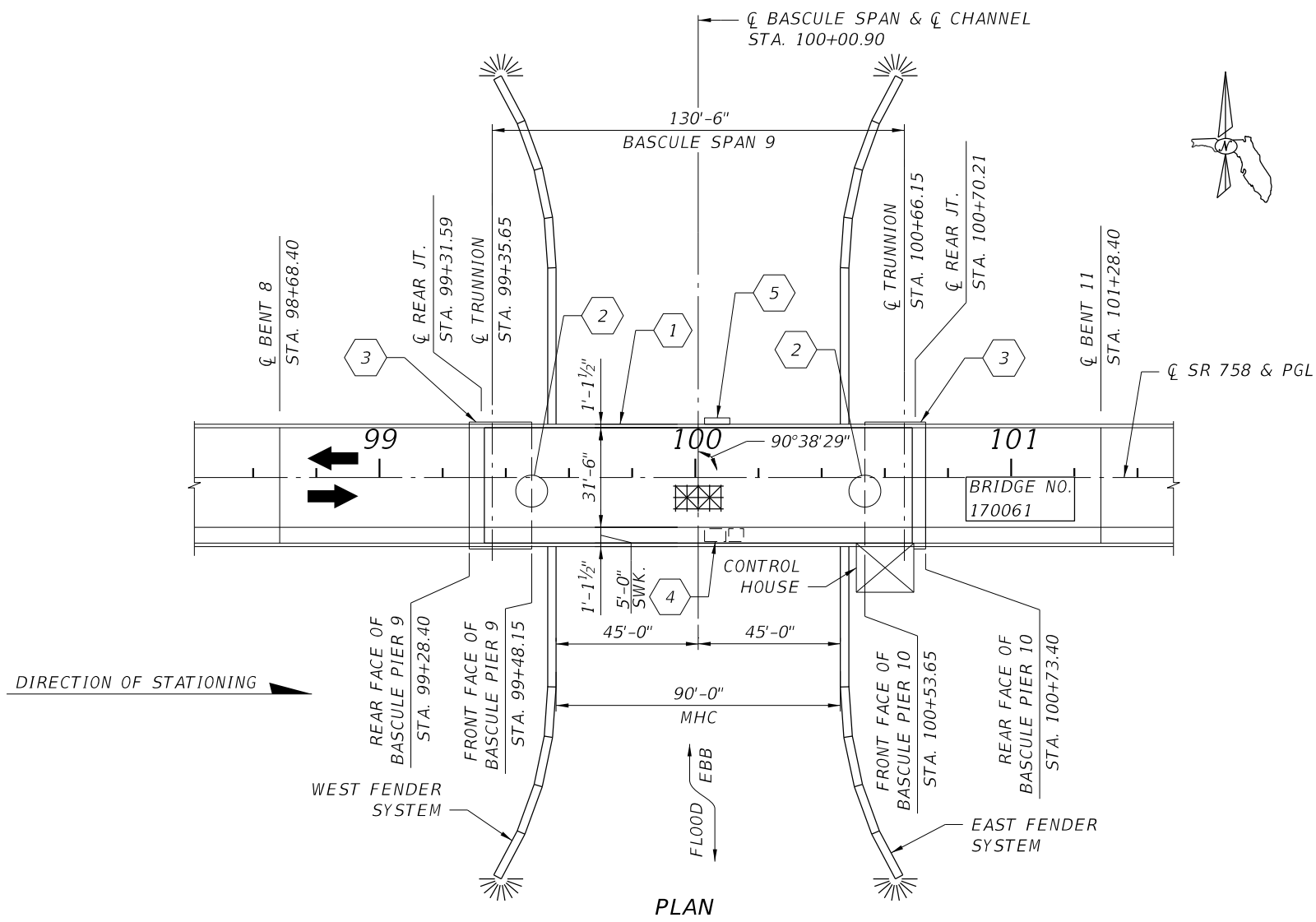
2. FINAL SPAN BALANCE:
RESTORE THE BRIDGE TO AN ACCEPTABLE BALANCED CONDITION AT THE COMPLETION OF REPAIRS AND MODIFICATIONS. THE FOLLOWING BALANCED CONDITION WILL BE CONSIDERED ACCEPTABLE AT THE COMPLETION OF FINAL REPAIRS AND MODIFICATIONS:

WL: XX KIP-FT ± XX KIP-FT (SPAN-HEAVY CONDITION)
 ALPHA: -XX° TO XX°

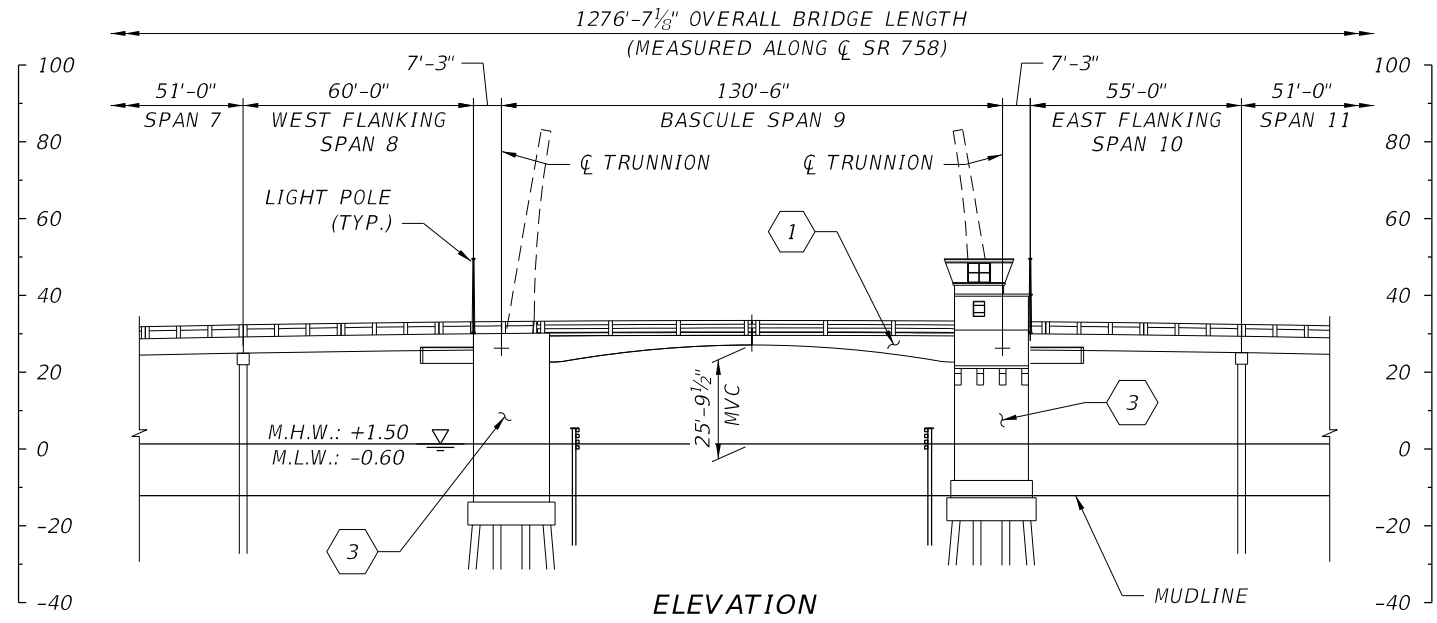
WHERE WL DENOTES THE MAGNITUDE OF SPAN UNBALANCED MOMENT (I.E. W X L)
 ALPHA DENOTES THE ANGLE OF THE LEAF C.G. RELATIVE TO A HORIZONTAL LINE THROUGH THE TURNNION EXTENDING TOWARD THE TIP OF THE LEAF (POSITIVE ANGLE IS ABOVE THE LINE)

BRIDGE NO. 170061

REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE LEAF NOTES	REF. DWG. NO. BL-1
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-40
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						JAMES P. NEWBERRY, P.E. License Number: 73365 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634					



PLAN



ELEVATION

STRUCTURAL SCOPE OF WORK

- 1 APPLY STRUCTURAL STEEL COATING SYSTEM
- 2 REPAIR CONCRETE FILLED GRID DECK
- 3 REPAIR CONCRETE SPALLS & DELAMINATIONS AND SEAL CRACKS ON BASCULE PIER
- 4 REPLACE GRATING FOR SOUTH SPAN LOCK ACCESS PLATFORM
- 5 PROVIDE NEW HANDRAIL FOR NORTH SPAN LOCK ACCESS PLATFORM

NOTES:

- 1. FOR MECHANICAL SCOPE OF WORK, SEE DWG. NO. BM-1.
- 2. FOR ELECTRICAL SCOPE OF WORK, SEE DWG. NO. BE-1.

LEGEND:

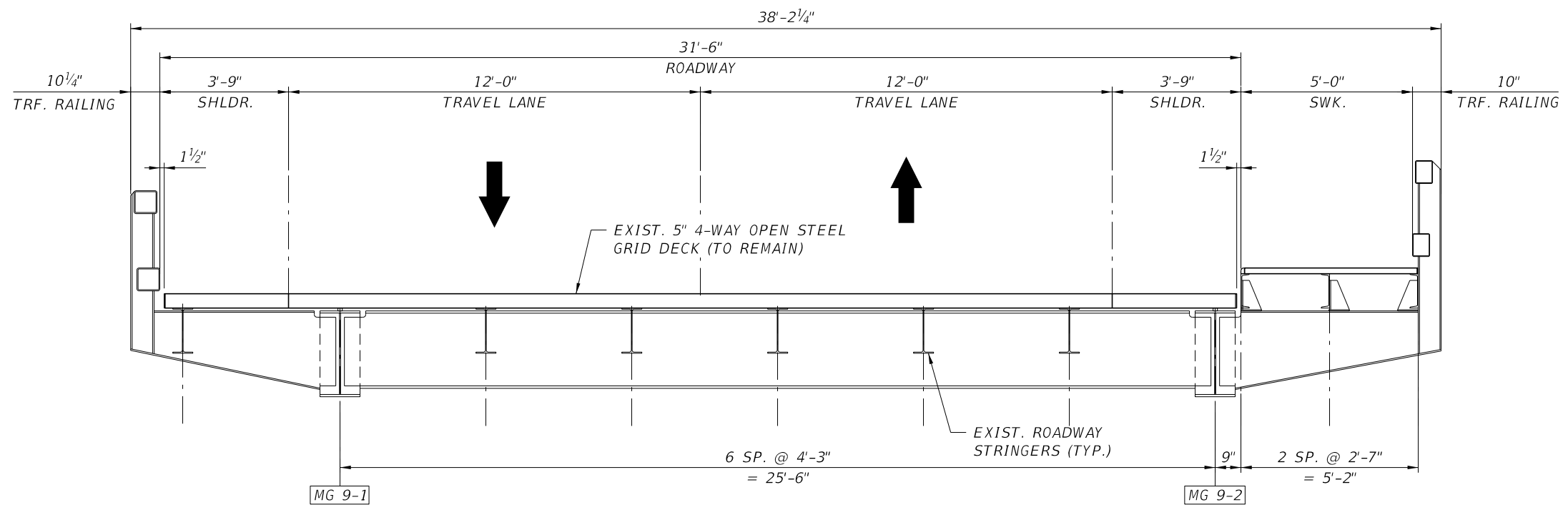
- MVC MIN. VERTICAL CLEARANCE
- MHC MIN. HORIZONTAL CLEARANCE

BRIDGE NO. 170061

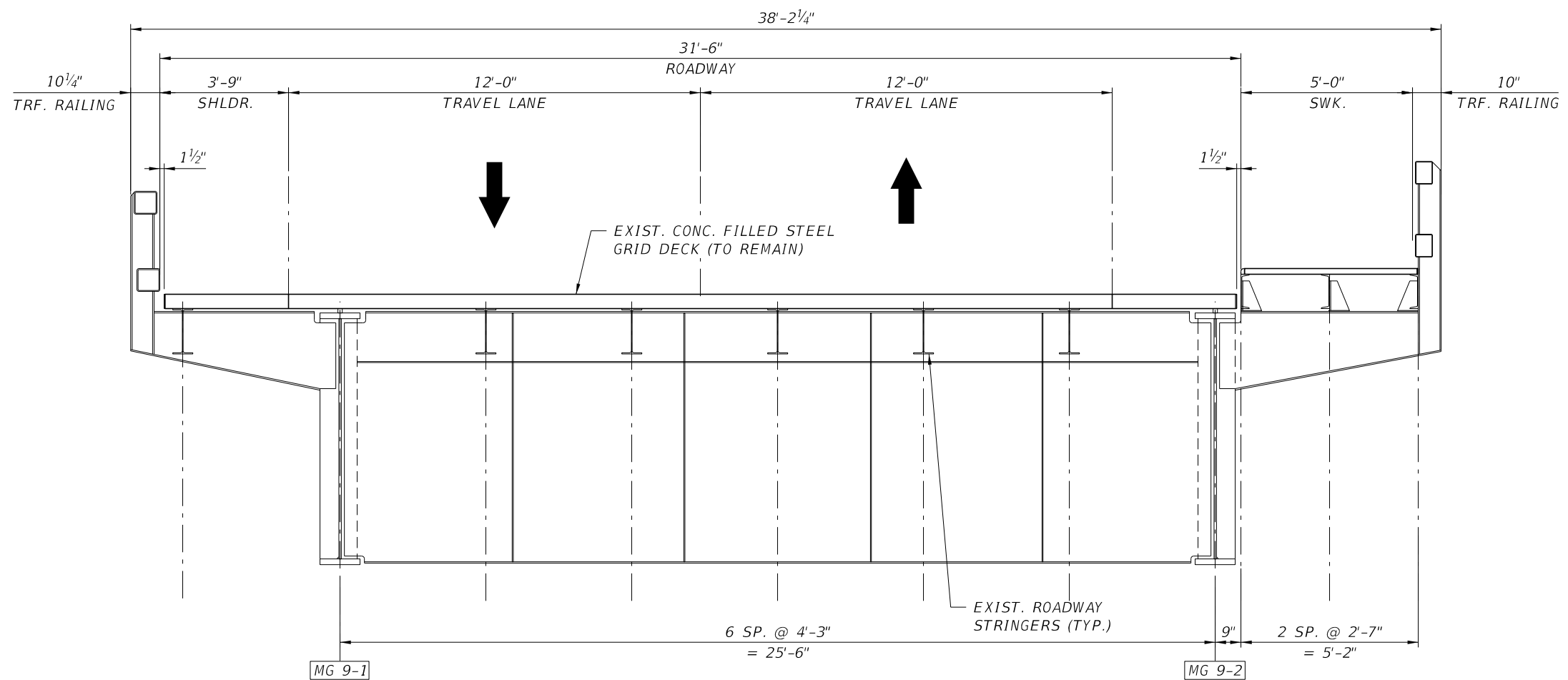
REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE SPAN PLAN AND ELEVATION	REF. DWG. NO. BL-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	CHECKED BY: JPN 12-24	758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-41
						DESIGNED BY: QPO 12-24					
						CHECKED BY: JPN 12-24					

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



BASCULE SPAN TYPICAL SECTION
(FB-1 SHOWN, FB-2 & FB-3 SIMILAR)



BASCULE SPAN TYPICAL SECTION AT FB-4

BRIDGE NO. 170061

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
					60% SUBMITTAL SUBJECT TO CHANGE

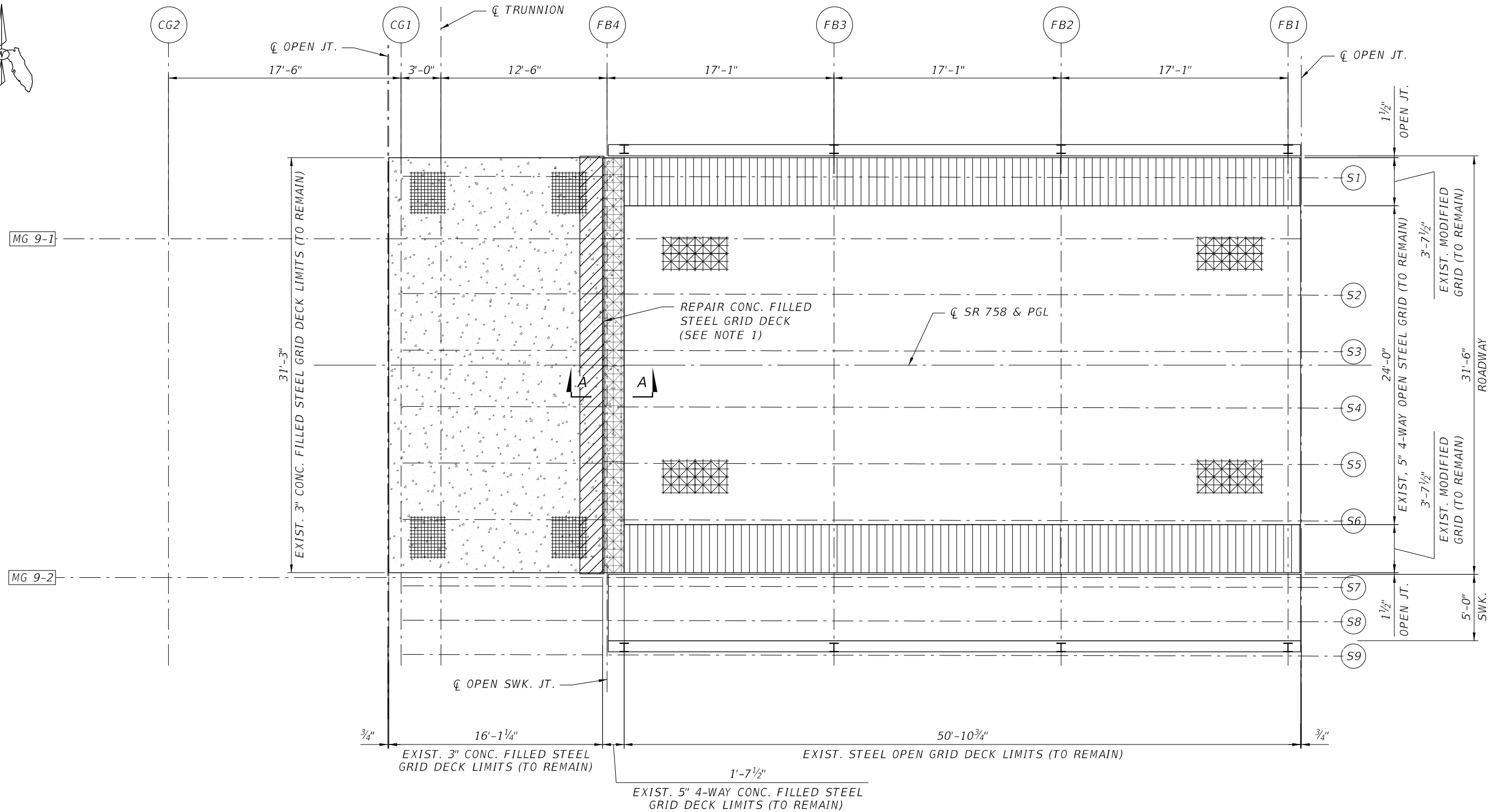
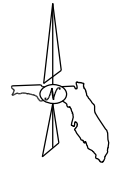
JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

DRAWN BY:
QPO 12-24
CHECKED BY:
JPN 12-24
DESIGNED BY:
QPO 12-24
CHECKED BY:
JPN 12-24

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
758	SARASOTA	451280-1-52-01

SHEET TITLE:	BASCULE LEAF TRANSVERSE SECTIONS	REF. DWG. NO.	BL-3
PROJECT NAME:	SR 758 OVER SARASOTA BAY	SHEET NO.	B1-42

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



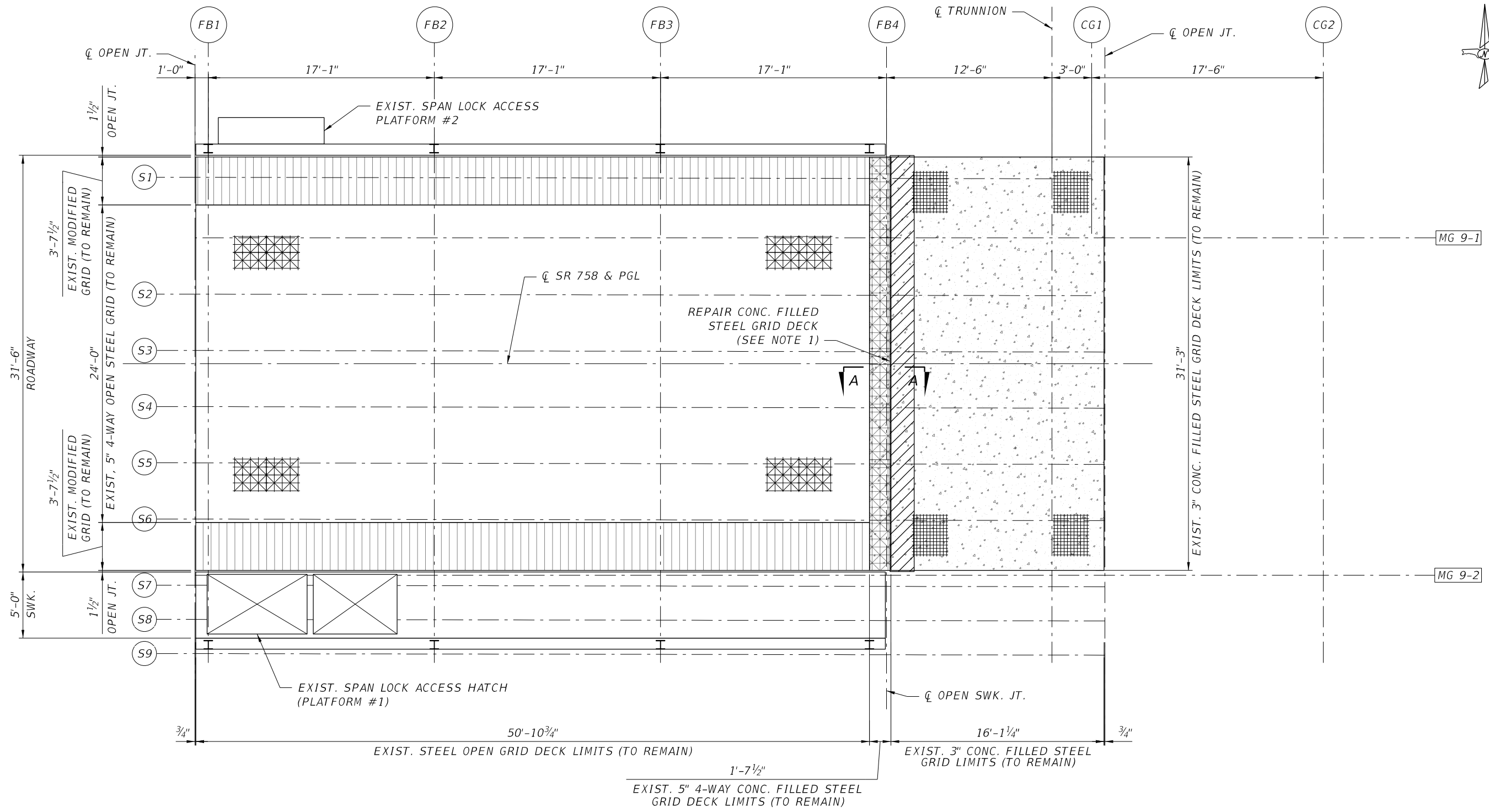
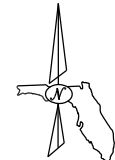
NOTES:

- FOR SECTION A-A AND CONC. FILLED STEEL GRID DECK REPAIR DETAIL, SEE DWG. NO. BL-6.

WEST LEAF DECK PLAN

BRIDGE NO. 170061

REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE LEAF DECK PLAN (1 OF 2)	REF. DWG. NO. BL-4	
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
							758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-43	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>						JAMES P. NEWBERRY, P.E. License Number: 73365 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634			CHECKED BY: JPN 12-24 DESIGNED BY: QPO 12-24 CHECKED BY: JPN 12-24			



EAST LEAF DECK PLAN

NOTES:

- 1. FOR SECTION A-A AND CONC. FILLED STEEL GRID DECK REPAIR DETAILS, SEE DWG. NO BL-6.

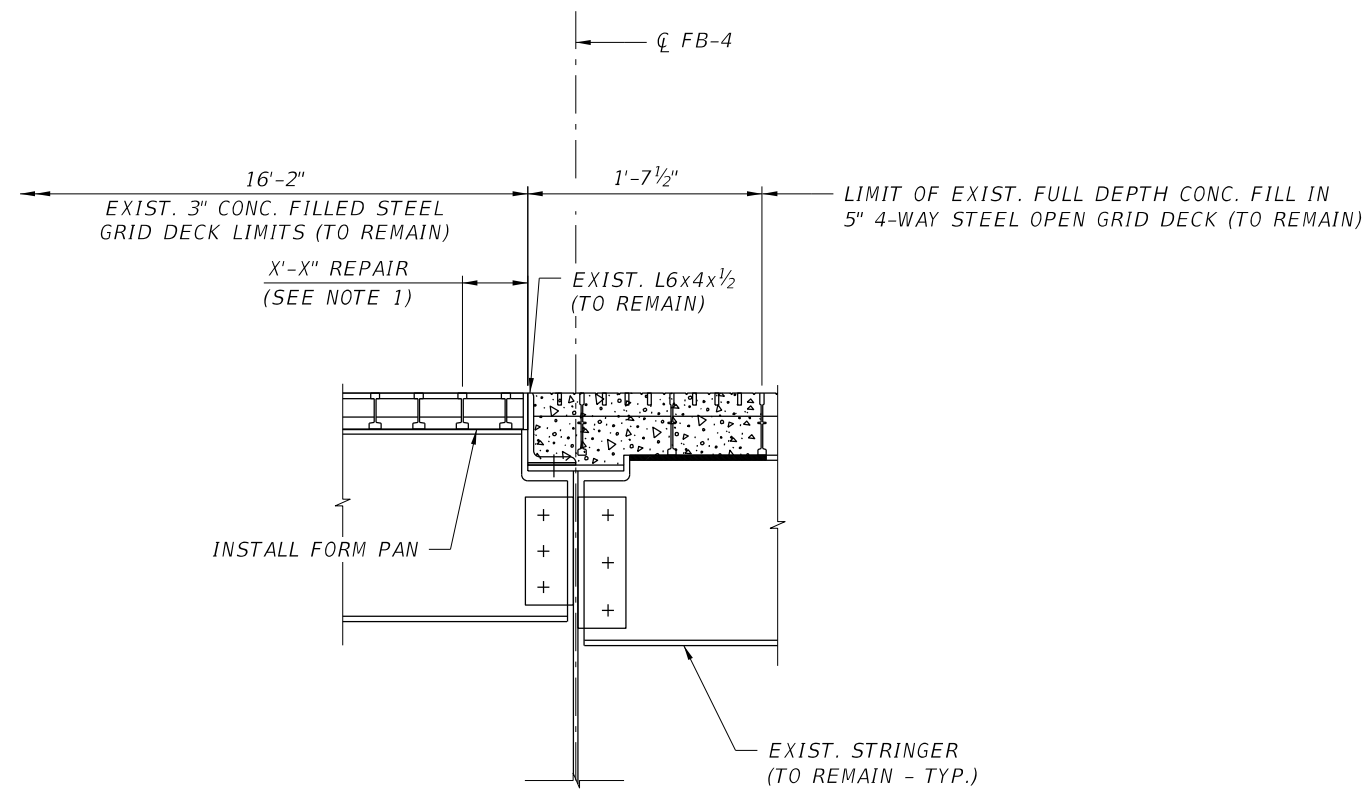
BRIDGE NO. 170061

REVISIONS				DRAWN BY:			STATE OF FLORIDA			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	QPO 12-24	DEPARTMENT OF TRANSPORTATION			BASCULE LEAF DECK PLAN (2 OF 2)		BL-5
						CHECKED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						JPN 12-24	758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		B1-44
						DESIGNED BY:						
						QPO 12-24						
						CHECKED BY:						
						JPN 12-24						

**60% SUBMITTAL
SUBJECT TO CHANGE**

JAMES P. NEWBERRY, P.E.
License Number: 73365
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



SECTION A-A

NOTES:

1. REPLACE EXISTING CONCRETE INFILL AND EXISTING EPOXY OVERLAY SYSTEM WITHIN THE LIMITS SHOWN.
2. FOR LOCATIONS OF SECTION A-A, SEE DWG. NOS. BL-4 & BL-5.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: QPO 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: BASCULE LEAF GRID DECK DETAILS (1 OF 2)	REF. DWG. NO. BL-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-45
						JAMES P. NEWBERRY, P.E. License Number: 73365 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634					

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

MECHANICAL GENERAL NOTES:

DETAILS OF MACHINERY TO CONFORM TO THE AASHTO LRFD MOVABLE HIGHWAY BRIDGE DESIGN SPECIFICATIONS 2ND EDITION 2007, AND ALL SUBSEQUENT INTERIMS, UNLESS OTHERWISE SHOWN ON THE PLANS, OR PROVIDED FOR IN THE SPECIFICATIONS. REFER TO TSP SECTIONS T465 MOVABLE BRIDGES AND T468 MECHANICAL CONSTRUCTION FOR MOVABLE BRIDGES FOR ADDITIONAL REQUIREMENTS.

PROVIDE SHIMS FOR LEVELING AND ALIGNING ALL MACHINERY COMPONENTS. PROVIDE SHIMS AT 1/2" NOMINAL THICKNESS, UNLESS OTHERWISE SPECIFIED, WITH ADJUSTMENT VARIATIONS AS DESCRIBED IN THE TECHNICAL SPECIAL PROVISION SECTION T468.

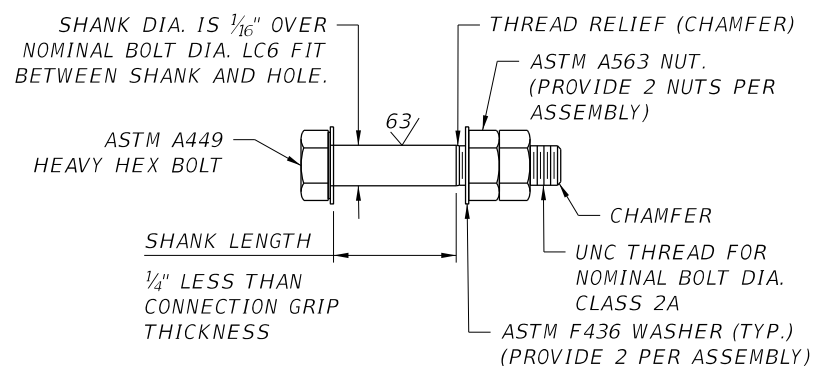
UNLESS OTHERWISE INDICATED, PROVIDE ALL FASTENERS USED FOR CONNECTING MACHINERY PARTS TO EACH OTHER AND TO SUPPORTING STEEL TO BE TURNED BOLTS THAT CONFORM TO THE MINIMUM SPECIFIED PHYSICAL REQUIREMENTS OF HIGH STRENGTH, ASTM A449 TYPE 1, CUT THREAD, SEMI-FINISHED, WASHER FACED, HEAVY HEXAGONAL BOLTS. THE DIMENSIONS OF THE BOLT HEADS TO BE PROVIDED TO CONFORM TO ANSI/ASME B18.2.6 - HEAVY HEX STRUCTURAL BOLTS. PROVIDE STRUCTURAL BOLTS TO MEET ASTM F3125 GRADE A325 TYPE 1 SPECIFICATIONS.

PROVIDE THREADS FOR TURNED BOLTS THAT CONFORM TO COARSE THREAD SERIES AS PER THE REQUIREMENTS OF ANSI/ASME B.1.1. ALL TURNED BOLTS ARE TO BE SECURED WITH DOUBLE HEAVY HEX NUTS UNLESS OTHERWISE SPECIFIED. NUTS TO CONFORM TO ASTM A563, HEAVY HEX NUTS, ANSI/ASME 18.2.2. PROVIDE HARDENED STEEL, PLAIN WASHERS CONFORMING TO ASTM F436 TO BE USED AT BOTH ENDS OF ALL TURNED BOLTS.

ALL FASTENER THREADS TO BE FREE OF DEBRIS OR SHAVINGS PRIOR TO INSTALLATION.

BOLT HOLE CLEARANCE FOR TURNED BOLTS/FASTENERS TO BE LC6 UNLESS OTHERWISE NOTED. HIGH STRENGTH TURNED BOLTS THAT HAVE BEEN TORQUED ARE NOT BE REUSED. TURNED BOLTS TO BE DRILLED AND REAMED IN THE FIELD AFTER FINAL ALIGNMENT UNLESS OTHERWISE NOTED. REFER TO TSP SECTION T468 FOR BOLT TENSIONING REQUIREMENTS.

TYPICAL H.S. TURNED BOLT DETAIL



MACHINERY DIMENSIONS SHOWN ON DRAWINGS ARE DIMENSIONS AFTER MACHINING. UNLESS OTHERWISE INDICATED OR REQUIRED FOR THE PROPER ASSEMBLY OF PARTS, DIMENSIONAL TOLERANCES FOR MACHINERY IN GENERAL TO BE IN INCHES AS FOLLOWS:

DETAILS SHOWN HEREIN WITH DIMENSIONS DEPEND ON MANUFACTURED ITEMS AND ARE TO BE SIZED BASED ON THE ACTUAL MANUFACTURED ITEMS PURCHASED BY THE CONTRACTOR.

UNLESS NOTED OTHERWISE, DIMENSIONS BETWEEN MACHINED SURFACES HAVE A TOLERANCE OF 0.010-INCH.

SURFACE	FINISH	FIT
MACHINERY BASE ON STEEL	125	-
MACHINERY BASE ON MASONRY	250	-
MACHINERY SUPPORTS	125	-
MACHINERY PARTS IN FIXED CONTACT	125	-
TURNED BOLT IN FINISHED HOLE	63	LC6

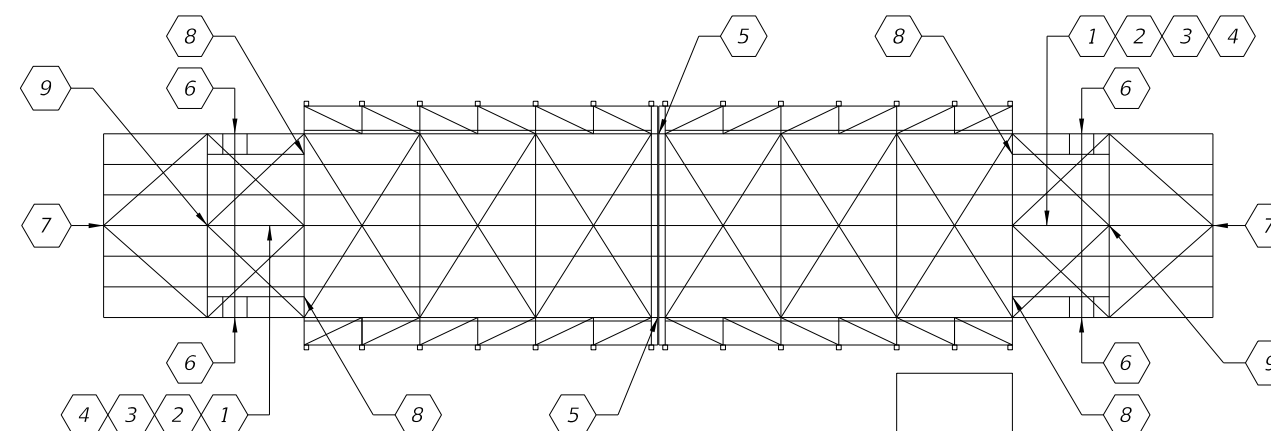
THE ABOVE FITS FOR CYLINDRICAL PARTS TO ALSO APPLY TO THE MAJOR DIMENSIONS OF NON-CYLINDRICAL PARTS.

ALL TRANSITIONS OF SURFACES OF MACHINERY PARTS TO BE BLENDED IN SMOOTH. ALL SURFACES OF FORGINGS TO BE MACHINED TO THE DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS. ALL MATING SURFACES OF MACHINERY PARTS AND SUPPORTS ARE TO BE MACHINED.

PAINT MACHINERY IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE THREE-PART MACHINERY PAINT SYSTEM: ALUMINUM, EPOXY MASTIC PRIME AND INTERMEDIATE COATS, ALIPHATIC POLYURETHANE TOPCOAT. PAINT PER FDOT STANDARD SPECIFICATION SECTION 560 AND 561. REFER TO TSP SECTION T468 FOR ADDITIONAL MACHINERY PAINTING DETAILS.

MECHANICAL SCOPE OF WORK:

1. RECONDITION SPEED REDUCERS, (2) ASSEMBLIES
 - A. DRAIN, FLUSH AND REFILL GEAR REDUCERS, (2) ASSEMBLIES
 - B. REPLACE GEAR REDUCER INPUT SHAFT SEALS, (2) LOCATIONS PER REDUCER, (4) LOCATIONS TOTAL
 - C. REPLACE GEAR REDUCER OUTPUT SHAFT SEALS, (2) LOCATIONS PER REDUCER, (4) LOCATIONS TOTAL
 - D. REPLACE GEAR REDUCER BREATHERS, (1) LOCATION PER REDUCER, (2) LOCATIONS TOTAL
 - E. REPLACE GEAR REDUCER OIL LEVEL GAGES, (1) LOCATION PER REDUCER, (2) LOCATIONS TOTAL
 - F. CLEAN AND TOUCH-UP PAINT GEAR REDUCERS AS NEEDED, (2) ASSEMBLIES
2. REPLACE HYDRAULIC POWER UNITS IN-KIND, IN FORM AND FUNCTION (2) ASSEMBLIES
3. REPLACE HYDRAULIC MOTORS IN-KIND, IN FORM AND FUNCTION (4) ASSEMBLIES
4. REPLACE HYDRAULIC BRAKES IN-KIND, IN FORM AND FUNCTION (4) ASSEMBLIES
5. RECONDITION SPAN LOCKS, (2) ASSEMBLIES
 - A. RE-SHIM GUIDE AND RECEIVER SHOES (6) LOCATIONS PER ASSEMBLY, (12) LOCATIONS TOTAL
 - B. REPLACE SPAN LOCK HPU, HYDRAULIC CYLINDERS AND ASSOCIATED HARDWARE.
 - C. REPLACE (1) SOUTH SPAN LOCK ACCESS GRATING PANEL
 - D. MODIFY NORTH SPAN LOCK ACCESS PLATFORM RAILING
 - E. CLEAN AND TOUCH-UP PAINT SPAN LOCK COMPONENTS
6. RECONDITION TRUNNION BEARINGS
 - A. REPAIR (1) WEST TRUNNION BEARING DEBRIS SHIELD
 - B. CLEAN AND TOUCH-UP PAINT TRUNNION BEARINGS AS NEEDED
7. PERFORM SPAN BALANCE TESTING AND COUNTERWEIGHT ADJUSTMENTS
8. REHABILITATE LIVE LOAD BEARING ASSEMBLIES
 - A. RECONDITION LIVE LOAD BEARING ASSEMBLIES
 - B. RE-SHIM (4) LIVE LOAD BEARING ASSEMBLIES FOR EQUAL LOAD DISTRIBUTION COORDINATED WITH SPAN BALANCE AND SPAN LOCK WORK
 - C. REPAIR NEAR OPPOSITE LIVE LOAD BEARING GROUT PAD
 - D. CLEAN AND TOUCH-UP LIVE LOAD BEARINGS AS NEEDED
9. REHABILITATE HOPKINS FRAMES
 - A. REPAIR (2) WEST HOPKINS FRAME BASE GROUT PADS.
 - B. REPLACE B1 & B2 BEARING TURNED BOLTS
 - C. CLEAN AND PAINT HOPKINS FRAME AND MACHINERY COMPONENTS AS NEEDED.



BRIDGE B1 - 170061
BRIDGE LAYOUT KEY PLAN

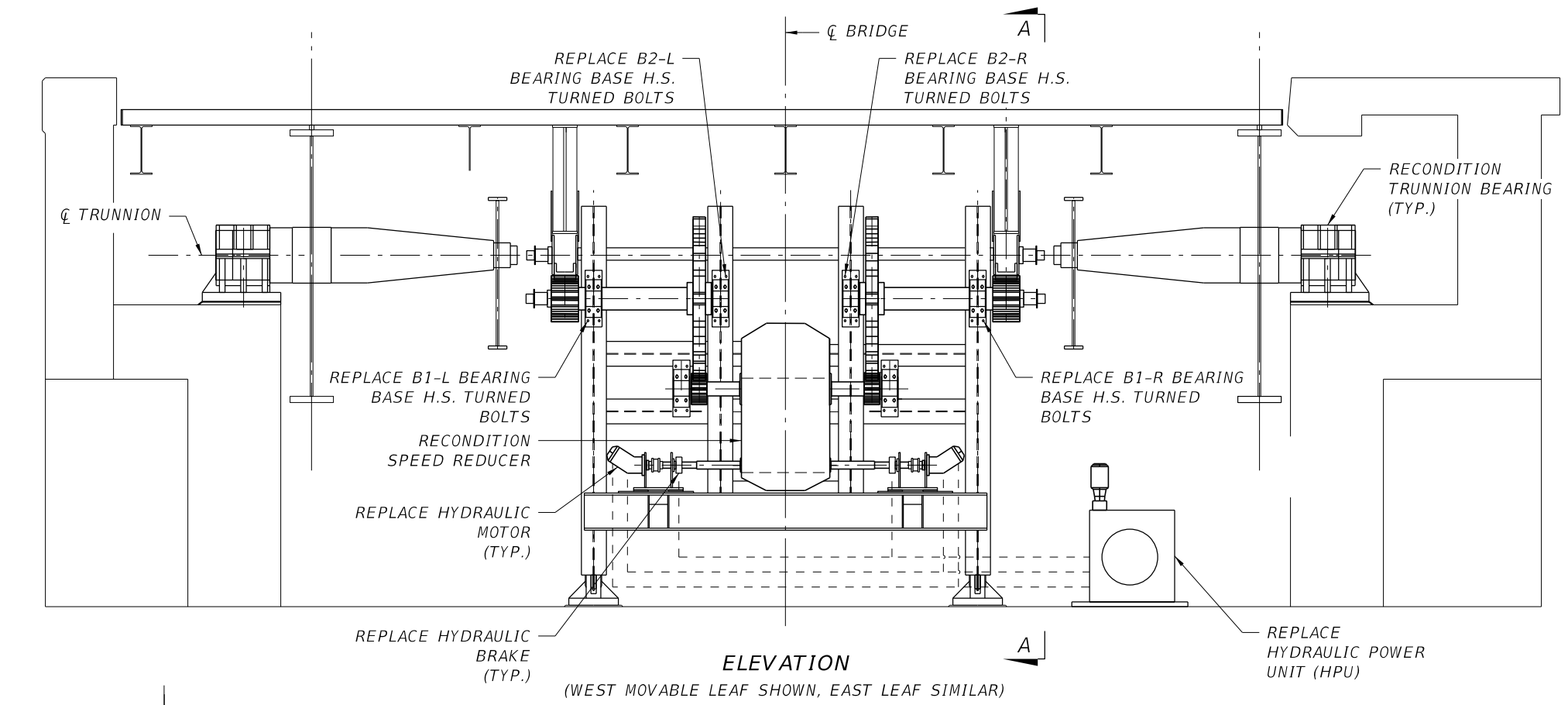
BRIDGE NO. 170061

REVISIONS						DRAWN BY: VR 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: MECHANICAL GENERAL NOTES	REF. DWG. NO. BM-1
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CHECKED BY: RKP 12-24	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-50
						DESIGNED BY: VR 12-24					
						CHECKED BY: RKP 12-24					

**60% SUBMITTAL
SUBJECT TO CHANGE**

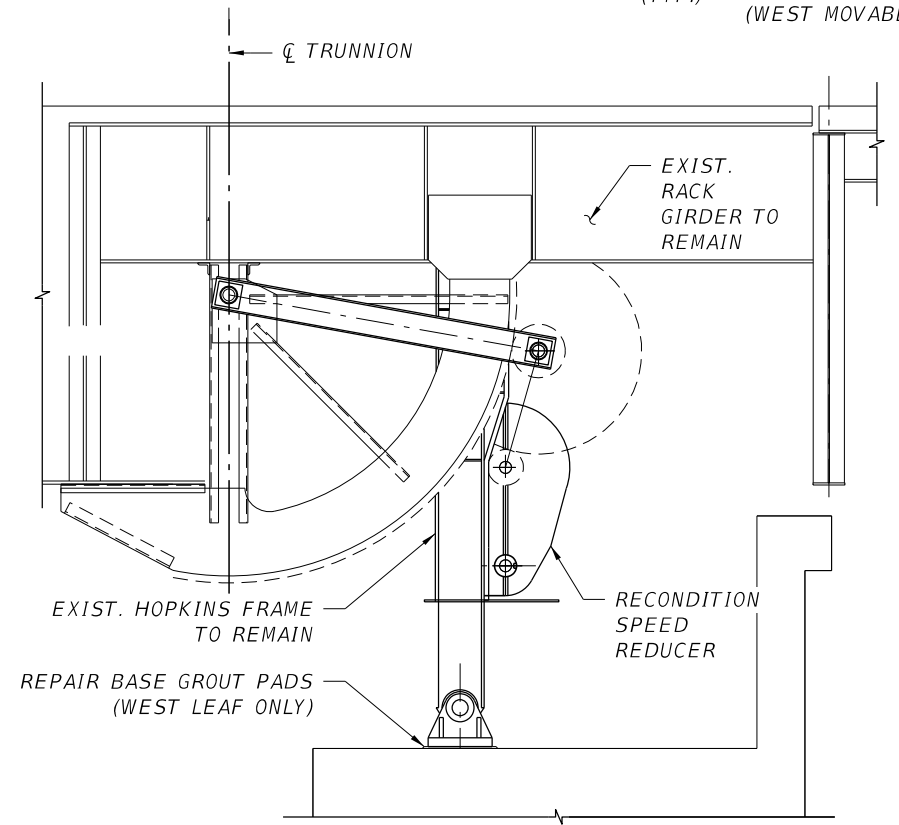
ROBERT K. PLOCICA, P.E.
License Number: 87298
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



ELEVATION

(WEST MOVABLE LEAF SHOWN, EAST LEAF SIMILAR)



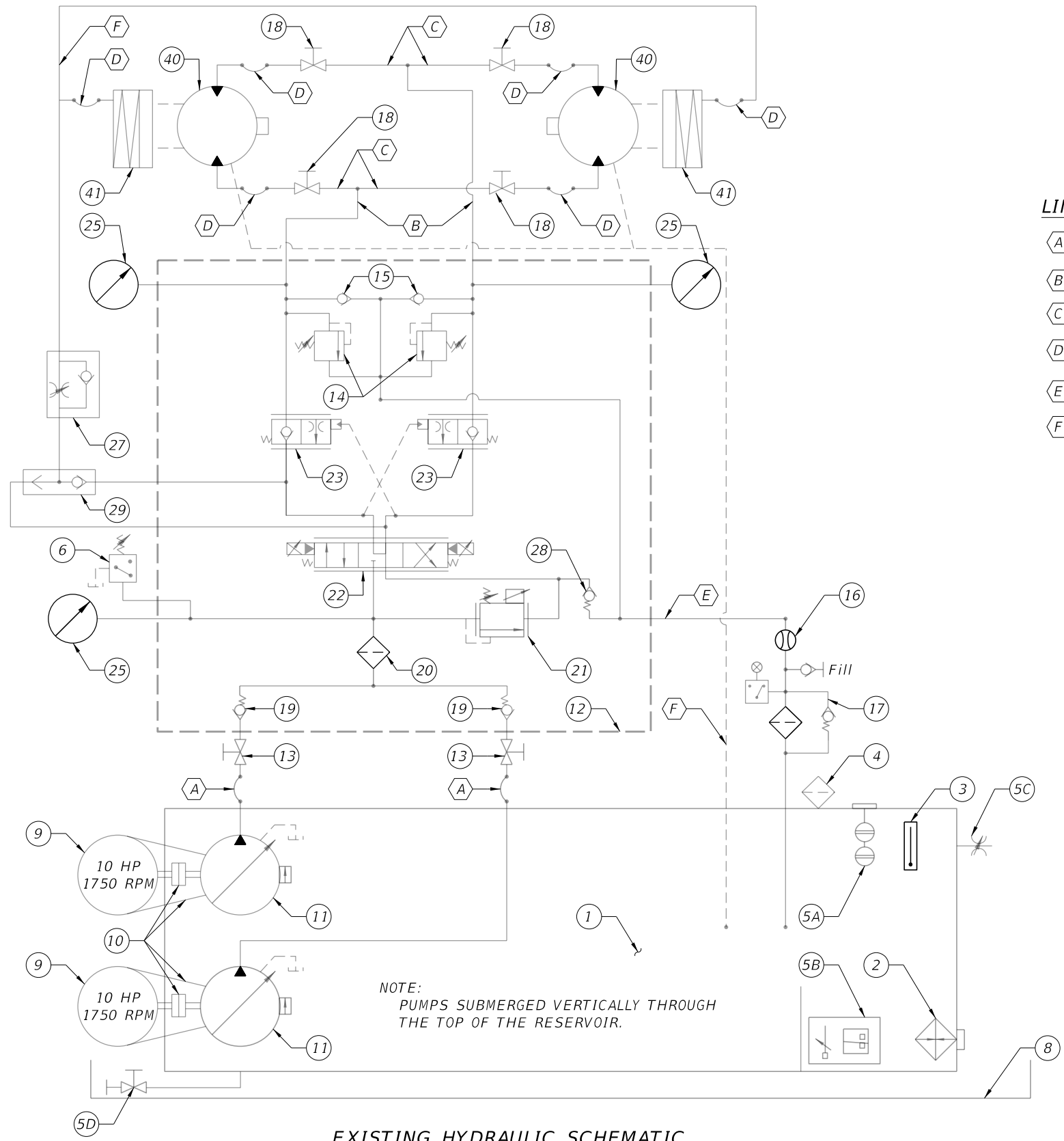
SECTION A-A

BRIDGE NO. 170061

REVISIONS						DRAWN BY: VR 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPAN DRIVE MACHINERY ELEVATION	REF. DWG. NO. BM-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-51

ROBERT K. PLOCICA, P.E.
License Number: 87298
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



- LINE SCHEDULE**
- A 3/4" DIA. HIGH PRESSURE HYDRAULIC HOSE
 - B 1" DIA. HIGH PRESSURE HYDRAULIC HOSE
 - C 3/4" DIA. STAINLESS TUBE, 0.083" WALL
 - D 3/4" DIA. HIGH PRESSURE HYDRAULIC HOSE
 - E 1 1/4" DIA. STAINLESS TUBE, 0.120" WALL
 - F 1/2" DIA. STAINLESS TUBE, 0.035" WALL

- NOTES:**
1. SEE REF. DWG. NO. BM-4 FOR TABULATED HYDRAULIC COMPONENTS AND ADDITIONAL INFORMATION. FIELD VERIFY ALL COMPONENTS AND ARRANGEMENTS SHOWN.
 2. FOR ADDITIONAL INFORMATION, SEE TECHNICAL SPECIAL PROVISIONS SECTION T468.

NOTE:
PUMPS SUBMERGED VERTICALLY THROUGH THE TOP OF THE RESERVOIR.

EXISTING HYDRAULIC SCHEMATIC
(REPLACE IN KIND, IN FORM AND FUNCTION)

BRIDGE NO. 170061

REVISIONS						DRAWN BY: VR 12-24 CHECKED BY: RKP 12-24 DESIGNED BY: VR 12-24 CHECKED BY: RKP 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPAN DRIVE HYDRAULIC SCHEMATIC (1 OF 3)	REF. DWG. NO. BM-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	ROBERT K. PLOCICA, P.E. License Number: 87298 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-52

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

TABLE OF HYDRAULIC POWER UNIT EQUIPMENT REPAIRS			
ITEM	QTY.	PART DESCRIPTION	DESIGN BASIS PART NUMBER
1	1	RESERVIOR ASSEMBLY (80 GAL.), FLUSH TOP, BAFFLE, (2) CLEAN OUT COVERS & PORTS	---
2	1	IMMERSION HEATER 120V	CHROMALOX: ARMT0 2155T/274159
3	1	TEMPERATURE GAUGE/SIGHT GLASS	REXR0TH: 254PU-A31-21VP
4	1	DESICCANT BREATHER	DECASE: DC4
5A/5B	1	TEMP. & FLOAT SWITCH ASSEMBLY (5A & 5B)	REXR0TH: TL009-159
5C	1	1/4" RESERVOIR SAMPLE VALVE	HYCON: DV-8-1.1/12-S
5D	1	RESERVOIR DRAIN VALVE 3/4"-PU-A-21-28	REXR0TH: 811391
6	1	PRESSURE SWITCH (NORMALLY OPEN)	REXR0TH: HED4KP1X/100Z15L110A/12
8	1	RESERVIOR DRIP TRAY, SS TYPE 304, 1 INCH	---
9	2	ELECTRIC MOTOR	RELIANCE: 215T-10HP-1755 RPM
10	2	FLEXIBLE COUPLING & BELL HOUSING	MAGNALOY/BSF: 200 PU-A 33-22 & V1304-320-X-6.25
11	2	PUMP (VARIABLE DISPLACEMENT AXIAL PISTON TYPE)	REXR0TH: AA4V5040LR2D-22RPKD63N00
12	1	VALVE MANIFOLD (CUSTOM)	---
13	2	H.P. BALL VALVE	REXR0TH: AA3/4"-PU-A21-29ML
14	2	CROSS-PORT RELIEF VALVE (2900 PSI)	REXR0TH: DBDS10K-1X-200/V/12
15	2	ANTICAVITATION CHECK VALVE	REXR0TH: M-SR20KE05-1X/5
16	1	FLOW METER	HEDLAND: 800-050
17	1	RETURN FILTER W/ ELEC. & VISUAL INDICATOR	HYCON: RFBNHC240G10D1.1/12-L115
18	4	H.P. BALL VALVE	REXR0TH: KHM32SAE1112L0
19	2	CHECK VALVE	REXR0TH: M-SR20KE00-1X/5
20	1	PRESSURE FILTER W/ ELEC. & VISUAL INDICATOR	HYCON: DFBNHC330P10D1.0/BYP-L115
21	1	SOLENOID PROPORTIONAL RELIEF VALVE W/ MANUAL OVERRIDE	REXR0TH: DBEM20-5X/200YG24NZ4M-S01
22	1	4 - WAY PROPORTIONAL VALVE	REXR0TH: 4WRZ16W150-5X-6A24NJETZ4/D3M
23	2	COUNTERBALANCE AND LOCK VALVE	REXR0TH: FD16PA2X/200 B04/12
25	3	PRESSURE GAUGE	REXR0TH: 837839, 2-1/2 - 3000 PU-A31-11A
27	1	FLOW CONTROL VALVE	HYCON: DRVP-12-1.1/12-P
28	1	CHECK VALVE	REXR0TH: M-SR20KE05-1X/5
29	1	SHUTTLE VALVE W/ REVERSE FLOW	SUN: CSAB XXN, T-11A
40	2	FIXED DISPLACEMENT HYDRAULIC MOTOR	REXR0TH: AA2FM56/61-WPBD52
41	2	HYDRAULIC MULTI-DISC BRAKE (SEE NOTES)	ORTLINGHAUS: 0-022-101 SIZE 31
'A'	2	3/4" DIA. FLEXIBLE HIGH PRESSURE HYDRAULIC HOISING	REXR0TH: 3/4"-3000 PU-A23-08AA32

HYDRAULIC SYSTEM NOTES:

1. QUANTITIES SHOWN ON THIS SHEET ARE FOR A SINGLE COMPLETE ASSEMBLY. TWO HYDRAULIC POWER UNIT ASSEMBLIES ARE PRESENT ON THE BRIDGE, ONE ON EACH BASCULE PIER.
2. EXISTING PART NUMBERS SHOWN FOR REFERENCE. FIELD VERIFY EXISTING PARTS TO BE REPLACED BEFORE SHOP DRAWING SUBMITTAL AND REPLACE WITH MANUFACTURER'S RECOMMENDED REPLACEMENT OR BETTER.
3. SEE TSP SECTION T468 FOR ADDITIONAL INFORMATION.
4. REPLACE ALL HPU FILTER ELEMENTS.
5. MULTI-DISC BRAKE TO BE PROVIDED WITH MATCHING QUICK DISCONNECTS TO ALLOW USE OF SPAN LOCK HAND PUMP TO MANUALLY RELEASE THE BRAKE.

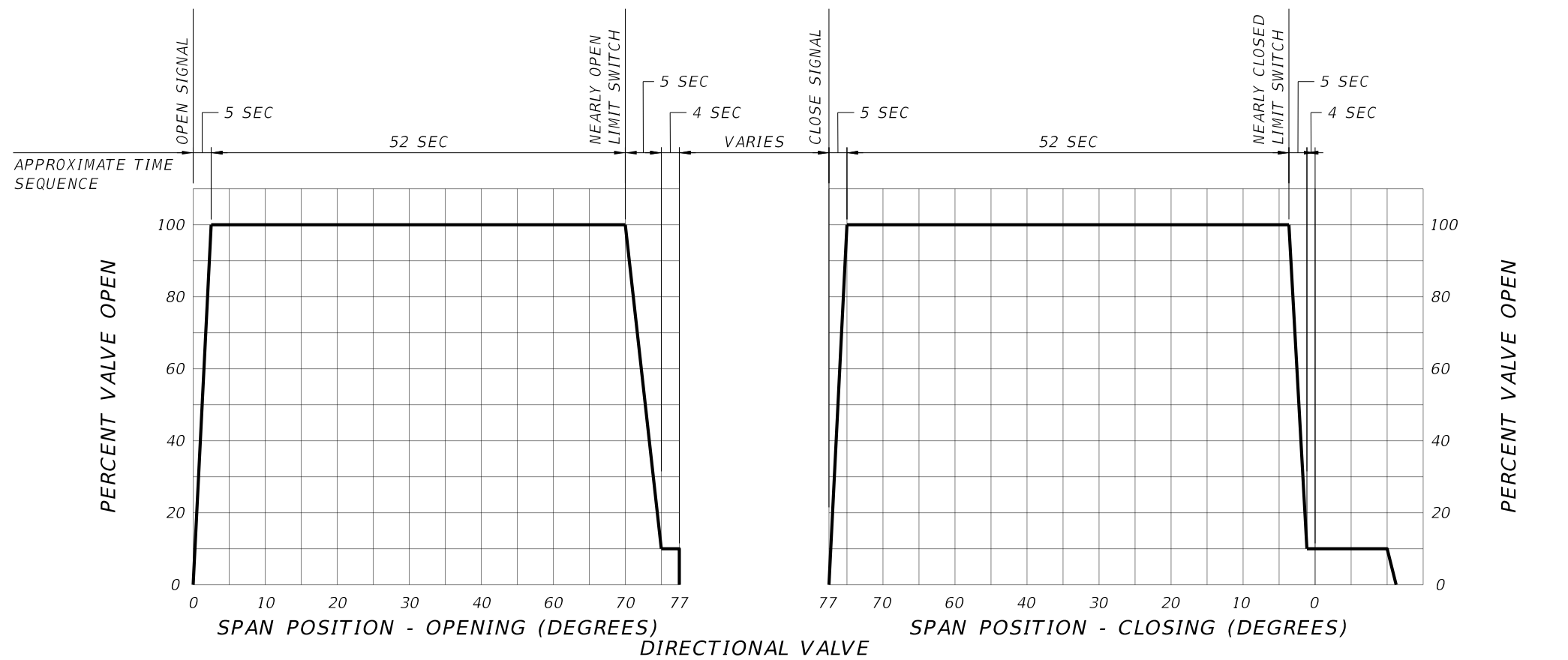
BRIDGE NO. 170061

REVISIONS				DRAWN BY:			STATE OF FLORIDA			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	VR 12-24	DEPARTMENT OF TRANSPORTATION			SPAN DRIVE HYDRAULIC SCHEMATIC (2 OF 3)		BM-4
						VR 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						RKP 12-24	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		B1-53
						VR 12-24						
						RKP 12-24						

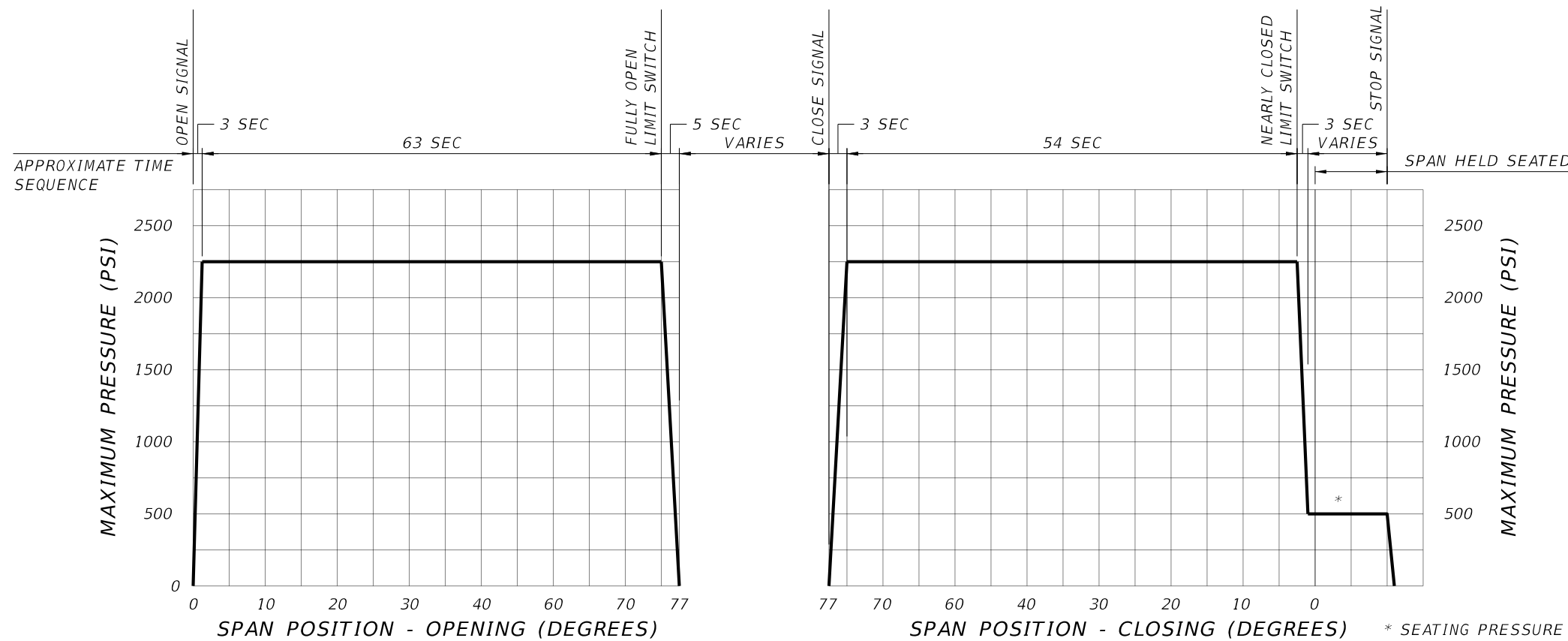
60% SUBMITTAL
SUBJECT TO CHANGE

ROBERT K. PLOCICA, P.E.
License Number: 87298
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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



HYDRAULIC SYSTEM DATA		
NORMAL	AVERAGE OPERATING PRESSURE PER HYDRAULIC MOTOR	950 PSI
	AVERAGE FLOW PER LEAF	26 GPM
PEAK	AVERAGE OPERATING PRESSURE PER HYDRAULIC MOTOR	2300 PSI
	AVERAGE FLOW PER LEAF	13 GPM
GENERAL	HOLDING PRESSURE	3000 PSI
	PUMP DISPLACEMENT (MINIMUM)	3.4 CU IN/REV
	PRESSURE RELIEF VALVE RAMP TIME ADJUSTMENT	0 - 5 SEC
	DIRECTIONAL CONTROL VALVE RAMP TIME ADJUSTMENT	0 - 7 SEC
	SEATING PRESSURE (SEE NOTE 5)	500 PSI



- NOTES:
- PRESSURE AND FLOW VALUES PROVIDED FOR OPENING THE BRIDGE.
 - SEATING PRESSURE VALUE IS NOMINAL AND SUBJECT TO FIELD ADJUSTMENT.
 - AVERAGE OPERATING PRESSURE IS WELL BELOW MAXIMUM.
 - OPERATING TIMES ARE SHOWN FOR NORMAL CONDITIONS. FOR PEAK CONDITIONS OR WITH ONLY ONE PUMP, OPERATION TIME WILL BE INCREASED.
 - FIELD VERIFY EXISTING SEATING PRESSURE. REPORT FINDING TO ENGINEER.

PROPORTIONAL VALVE SEQUENCE DIAGRAM

BRIDGE NO. 170061

REVISIONS				DRAWN BY:			STATE OF FLORIDA			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	VR 12-24	DEPARTMENT OF TRANSPORTATION			SPAN DRIVE HYDRAULIC SCHEMATIC (3 OF 3)		BM-5
						CHECKED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						VR 12-24	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		B1-54
						DESIGNED BY:						
						VR 12-24						
						CHECKED BY:						
						RKP 12-24						

60% SUBMITTAL
SUBJECT TO CHANGE

ROBERT K. PLOCICA, P.E.
License Number: 87298
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

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

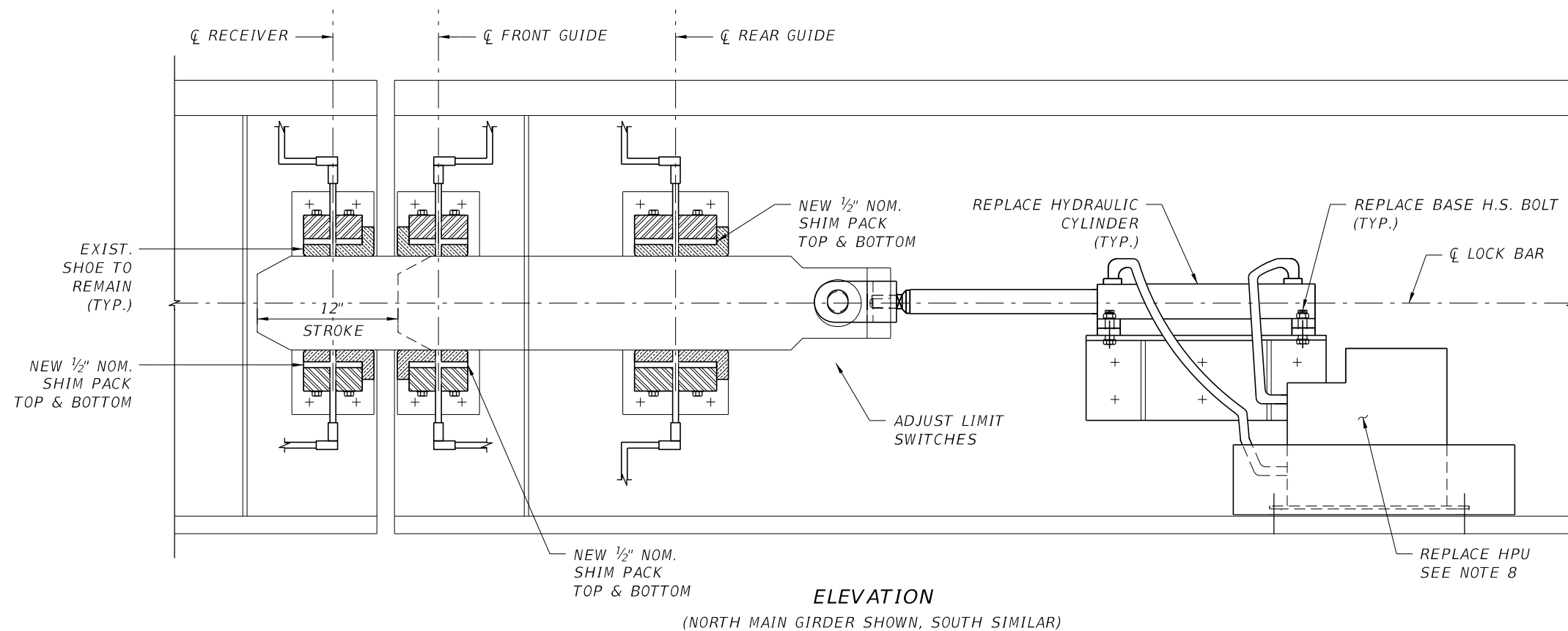


TABLE OF SPAN LOCK MACHINERY CYLINDER	
QUANTITY	DESCRIPTION OF EXISTING
2	HYDRAULIC CYLINDER, EFFECTIVE STROKE OF 12 ¹ / ₄ INCHES, 2 ¹ / ₂ " DIA. BORE WITH 1 ³ / ₄ " DIA. STAINLESS STEEL ROD. REFER TO TSP SECTION T468 FOR ADDITIONAL REQUIREMENTS.

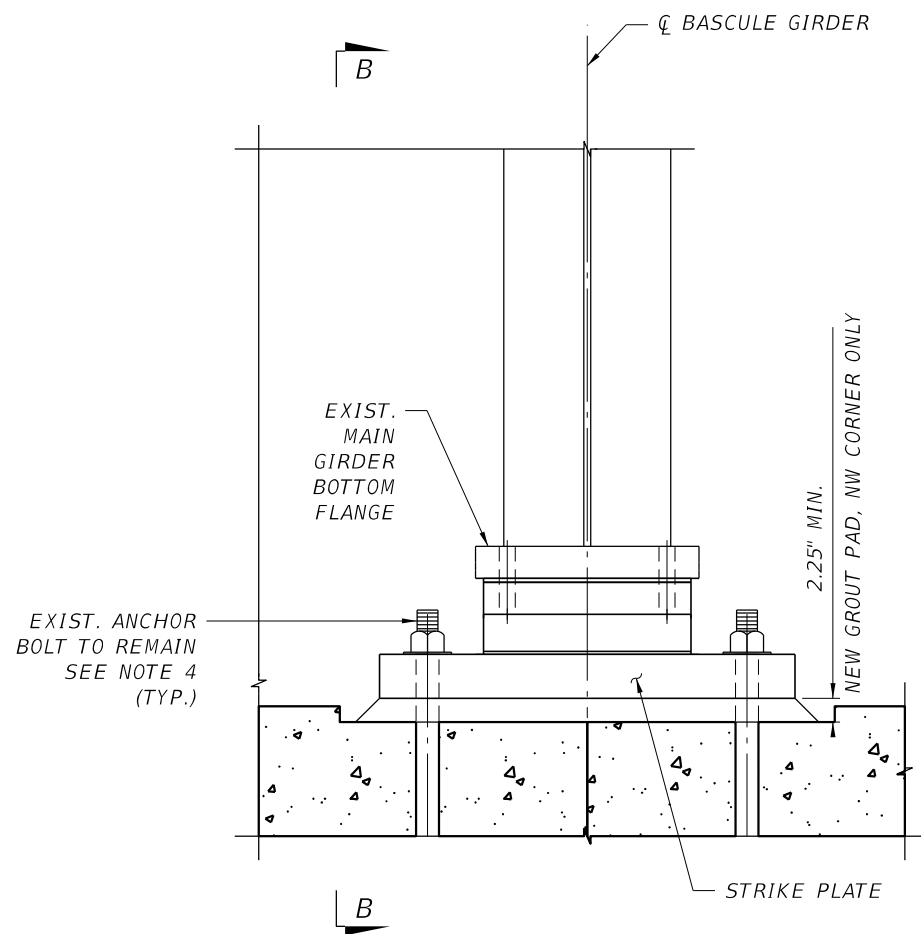
NOTES:

1. CLEAN ALL CORROSION FROM EXISTING LOCK BARS.
2. WHERE SHIMS ARE SHOWN, THICKNESS IS NOMINAL SIZE, REFER TO THE SPECIFICATIONS FOR MATERIAL AND SHIM PACK REQUIREMENTS.
4. PAINT NEW MACHINERY COMPONENTS PER TSP SECTION T468. CLEAN AND SPOT PAINT EXISTING COMPONENTS AS REQUIRED PER TSP SECTION T468.
5. SHIM ALL (3) LOCATIONS PER EACH SPAN LOCK ASSEMBLY. REFER TO TSP SECTION T468 FOR ADDITIONAL REQUIREMENTS.
6. PROVIDE NEW CYLINDERS WITH PROTECTIVE BOOTS, STAINLESS STEEL ROD MATERIAL.
7. PROVIDE A TOTAL VERTICAL CLEARANCE BETWEEN THE LOCK BAR AND THE BEARINGS OF BETWEEN 0.010" AND 0.025".
8. FLUSH AND REFILL HPU HYDRAULIC FLUID.

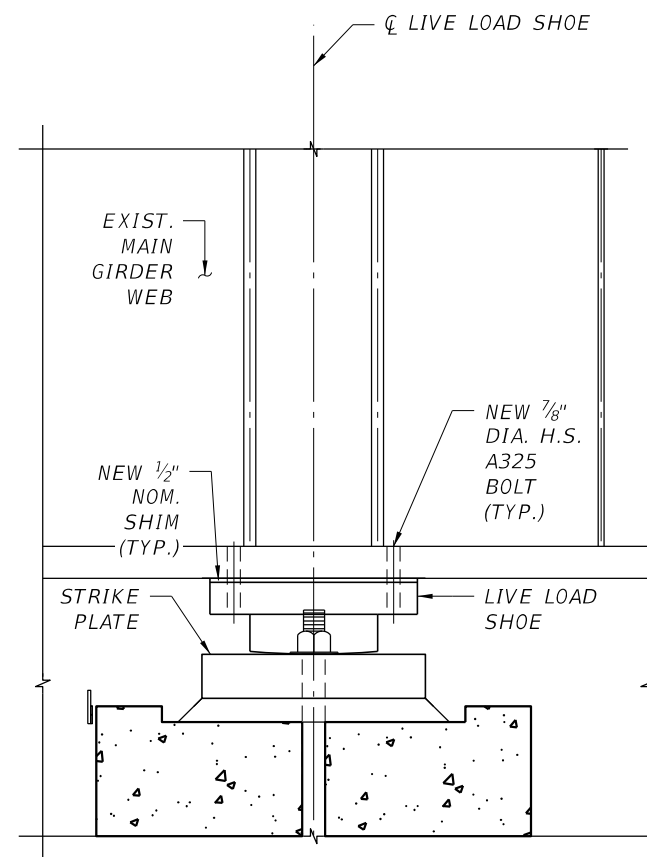
BRIDGE NO. 170061

REVISIONS						DRAWN BY: VR 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SPAN LOCK ASSEMBLY	REF. DWG. NO. BM-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	DESIGNED BY: VR 12-24	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-55
					ROBERT K. PLOCICA, P.E. License Number: 87298 HARDESTY & HANOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634	CHECKED BY: RKP 12-24					

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



SECTION THRU BASCULE GIRDER
(NORTHWEST CORNER SHOWN, OTHERS SIMILAR)



VIEW B-B
(NORTHWEST CORNER SHOWN, OTHERS SIMILAR)

NOTES:

1. FIELD VERIFY ALL DIMENSIONS SHOWN.
2. REFER TO TSP SECTION T468 FOR SHIM PACK VARIATIONS.
3. CLEAN AND COAT ALL LIVE LOAD SHOE ASSEMBLIES IN ACCORDANCE WITH SECTION 561 OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. INSPECT EXISTING ANCHOR EXTERNAL THREADS AND NUT INTERNAL THREADS FOR GROUT REPLACEMENT WORK AND CONTINUED USE, INFORM ENGINEER OF ANY DISCREPANCIES.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: VR 12-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: LIVE LOAD BEARING ASSEMBLY		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		BM-7
					60% SUBMITTAL SUBJECT TO CHANGE	DESIGNED BY: VR 12-24	SR758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	SHEET NO.	
						CHECKED BY: RKP 12-24					B1-56	

ROBERT K. PLOCICA, P.E.
License Number: 87298
HARDESTY & HANOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

GENERAL ELECTRICAL NOTES AND SCOPE OF ELECTRICAL WORK

WORK INCLUDES THE FURNISHING AND INSTALLATION OF SELECT COMPONENTS OF THE ELECTRICAL SYSTEM FOR THE MOVABLE BRIDGE.

1. ELECTRICAL POWER SERVICE

A. EXISTING ELECTRICAL SERVICE, 400A, 480V/277V, THREE-PHASE (WYE) FOUR WIRE SYSTEM WITH GROUND AT BRIDGE 170061 TO REMAIN.

2. ELECTRICAL POWER SYSTEM

A. EXISTING MOTOR CONTROL CENTER TO REMAIN. REPLACE TRAFFIC GATE AND SPAN LOCK MOTOR STARTERS.
B. REPLACE EXISTING AUTOMATIC TRANSFER SWITCH.

3. LIGHTING

A. PROVIDE LIGHTING EQUIPMENT AS INDICATED ON THE PLANS. ANY DEVIATION FROM THE PLANS FOR FIXTURE LOCATION SHALL BE REQUESTED IN WRITING AND APPROVED BY THE ENGINEER.
B. PROVIDE LIGHT FIXTURES WITH LAMPS OF THE SPECIFIED WATTAGE AND TYPE.

4. ELECTRICAL CONTROL SYSTEM

A. REFURBISH CONTROL CONSOLE SURFACE WITH NEW PHENOLIC NAMEPLATES, LENSES, BUTTONS, AND SWITCHES.

5. TRAFFIC SIGNALS

A. REPLACE EXISTING TRAFFIC SIGNAL ASSEMBLIES.
B. REPLACE EXISTING SIGNAL LAMPS WITH LED LAMPS.
C. REPLACE "DRAWBRIDGE SIGNAL" SIGNS.

6. SPAN LOCK SYSTEM

A. REPLACE SPAN LOCK SYSTEM CONDUIT, WIRING, SUPPORTS, AND MOUNTING HARDWARE.
B. REPLACE SPAN LOCK LIMIT SWITCHES.
C. FURNISH AND INSTALL NEMX 4X 316 STAINLESS STEEL JUNCTION BOXES FOR SPAN LOCK TERMINATIONS.
D. REPLACE SPAN LOCK MOTOR DISCONNECT SWITCHES.
E. REPLACE SPAN LOCK ACTUATORS.

7. SPAN DRIVE SYSTEM

A. REPLACE HYDRAULIC POWER UNIT MOTORS, TERMINATION BOXES, AND HEATERS.
B. REPLACE MAIN SPAN MOTOR CONDUIT AND WIRING.
C. REPLACE MAIN SPAN MOTOR DISCONNECT SWITCHES.
D. REPLACE HYDRAULIC POWER UNIT CONTROL PANEL.

8. NAVIGATION LIGHTING SYSTEM

A. REPLACE BASCULE SPAN CLEARANCE LIGHTS AND ASSOCIATED CONDUIT, CONDUIT SUPPORTS MOUNTING HARDWARE, WIRING AND JUNCTION BOXES.
B. REPLACE FENDER LIGHTS AND ASSOCIATED CONDUIT, CONDUIT SUPPORTS MOUNTING HARDWARE, WIRING, AND JUNCTION BOXES.
C. REPLACE GAUGE LIGHTS AND ASSOCIATED CONDUIT, CONDUIT SUPPORTS MOUNTING HARDWARE, WIRING AND JUNCTION BOXES.
D. FURNISH AND INSTALL NAVIGATION LIGHTING UPS SYSTEM.

9. COMMUNICATION SYSTEM

A. REPLACE EXISTING PA SYSTEM AND ASSOCIATED CONDUIT, WIRING, JUNCTION BOXES AND MOUNTING BRACKETS.

10. LIMIT SWITCHES AND TRANSDUCERS

A. REPLACE FULLY CLOSED PROXIMITY LIMIT SWITCHES AND ASSOCIATED CONDUIT SUPPORTS, CONDUIT, WIRING, LIMIT SWITCH SUPPORTS, MOUNTING HARDWARE, AND JUNCTION BOXES.
B. REPLACE FULLY OPEN, NEARLY OPEN, AND NEARLY CLOSED PROXIMITY LIMIT SWITCHES AND ASSOCIATED CONDUIT SUPPORTS, MOUNTING HARDWARE, CONDUIT, WIRING, LIMIT SWITCH SUPPORTS, MOUNTING HARDWARE, AND JUNCTION BOXES.
C. EXISTING LIMIT SWITCH TARGETS TO REMAIN.
D. FURNISH AND INSTALL POSITION TRANSMITTER TO PROVIDE ANGULAR MEASUREMENT OF SPAN POSITION. INCLUDE POWER SUPPLY, 316 NEMA 4X ENCLOSURE, CABINET HEATER WITH TERMINAL BLOCKS. CONNECT NEW INCLINOMETER TO EXISTING CONTROL SYSTEM.
E. DISCONNECT AND REMOVE EXISTING POSITION RESOLVER AND ASSOCIATED WIRING, CONDUIT, AND SUPPORTS.

11. DEMOLITION

A. REMOVE AND DISPOSE OF ALL EXISTING ELECTRICAL EQUIPMENT, ELECTRICAL DEVICES, WIRING, CONDUIT, BOXES, DISCONNECT SWITCHES, MOUNTING HARDWARE, AND ANCILLARY DEVICES BEING REPLACED.

ELECTRICAL PROJECT NOTES

1. CONFORM TO ALL AASHTO, NEC, UL, IEEE, AND NEMA CODES, STANDARDS, AND PRACTICES.

2. ELECTRICAL DEVICES AND EQUIPMENT ARE SHOWN SYMBOLICALLY ON THE PLANS. THE USE OF SYMBOLS AND NOTATIONS (OR THE OMISSION THEREOF) DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING A COMPLETE AND FULLY FUNCTIONAL SYSTEM. FIELD LOCATE DEVICES AND EQUIPMENT TO FACILITATE ACCESSIBILITY WITH RESPECT TO OPERATION AND MAINTENANCE CONDITIONS.

3. PROVIDE 316 STAINLESS STEEL MOUNTING HARDWARE AND FABRICATED SUPPORTING FRAMEWORKS. PROVIDE 316 S.S. NEMA 4X EXTERIOR BOXES. ALL EXTERIOR MOTORS, BRAKES, ETC. SHALL BE TOTALLY ENCLOSED AND WATERPROOF. WHERE SPECIFIED, MATERIALS SHALL NOT BE SUBSTITUTED UNLESS REQUESTED IN WRITING AND APPROVED BY THE ENGINEER. REMOVE UNAPPROVED MATERIALS AND INSTALL APPROVED MATERIALS AT NO ADDITIONAL COST.

4. MINIMUM CONDUIT SIZE IS 3/4 INCH. ALL WIRES SHALL BE XHHW-2 UNLESS OTHERWISE NOTED. MINIMUM FIELD WIRE SIZE IS #12 AWG FOR CONTROL AND #10 AWG FOR POWER.

5. PROVIDE AND INSTALL A COMPLETE, INTEGRATED, GROUNDING, AND BONDING SYSTEM FOR ALL NEW EQUIPMENT AND DEVICES PER NEC (ART. 250).

6. PROVIDE AND MAINTAIN A COMPLETE FUNCTIONAL CHANNEL NAVIGATION LIGHTING SYSTEM DURING ENTIRE CONSTRUCTION PERIOD.

7. ALL FIELD WIRING MUST BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT, LEGIBLE, AND WEATHER-PROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.

8. OPERATE AND MAINTAIN THE BRIDGE TRAFFIC SIGNALS DURING THE ENTIRE CONSTRUCTION PERIOD.

9. REFER TO THE EXISTING BRIDGE PLANS AND VISIT THE SITE TO VERIFY EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT QUANTITIES, WIRE NUMBERS, CONDUIT SIZES, CONDUCTOR SIZES AND DIMENSIONS. EXISTING BRIDGE PLANS AND ELECTRICAL CONTROL SCHEMATICS ARE PROVIDED FOR REFERENCE ONLY. CHANGES OR MODIFICATIONS TO THE EXISTING CONTROL SYSTEM MAY OR MAY NOT BE DEPICTED ON THE EXISTING AS-BUILT DRAWINGS. ADJUSTMENTS MAY BE REQUIRED DURING FIELD TESTING.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: ELECTRICAL NOTES AND SCOPE OF WORK	REF. DWG. NO. BE-1
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE						
							SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-57

MARCO A. LARA
License Number: 78414
HARDESTY AND HANNOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

ONE-LINE DIAGRAM

- CB #A 2P CIRCUIT BREAKER
AF = AMP FRAME RATING
AS = AMP SENSOR RATING
AT = AMP TRIP RATING
2P = TWO POLE
= AT, 3 POLE UNLESS NOTED
- MAGNETIC CIRCUIT PROTECTOR
- * MOTOR CONTACTOR, NON REVERSING, FVNR
= NEMA SIZE
- MOTOR CONTACTOR, REVERSING, FVR
= NEMA SIZE
- OVERLOAD RELAY
- # INDUCTION MOTOR
= HORSEPOWER
- DISCONNECT SWITCH, FUSED
= FUSE SIZE
- DISCONNECT SWITCH, NON-FUSED
= SWITCH RATING
- AUTOMATIC TRANSFER SWITCH, ATS
N = NORMAL
E = EMERGENCY
L = LOAD
- INCLINOMETER
- ENGINE/GENERATOR
3 PHASE UNLESS NOTED
- BRAKE
- MOTOR DRIVE
- VSD = VARIABLE SPEED DRIVE
- FUSE
- TRANSFORMER, VOLTAGE, or PT
- TRANSFORMER, CURRENT, CT
- SWITCH SELECTOR
AS = AMMETER SW.
VS = VOLTMETER SW.
- V = VOLTMETER
A = AMMETER
W = WATTMETER

DEVICES

- LIGHTING FIXTURE, FLUORESCENT
A = TYPE
C = CIRCUIT NO.
A = SWITCHED LEG
- LIGHTING FIXTURE, INCANDESCENT or MERCURY VAPOR
A = TYPE
C = CIRCUIT NO.
A = SWITCHED LEG
- EMERGENCY LAMP PACK W/BATTERY
- SPEAKER, HORN
- TELEPHONE
- PANEL BOARD
LP = LIGHTING PANEL
PP = POWER PANEL
- PHOTO-ELECTRIC RELAY
- DUPLEX RECEPTACLE (120VAC, 20A)
WP = WEATHER PROOF
C = CIRCUIT NO.
G = GFI
- SINGLE RECEPTACLE (240 VAC, 30A)
C = CIRCUIT NO.
- WALL SWITCH (125VAC, 20A)
2 = 2 POLE
3 = 3 WAY
C = SWITCHED LEG
- COMBINATION STARTER
= NEMA SIZE
FVNR (UNLESS NOTED)
120V, 1\, FUSED
- BOX, CABINET
JB = JUNCTION BOX (TERM.)
PB = PULL BOX (NO TERM.)
TC = TERMINATION CABINET
FA = FIRE ALARM
FACP = FIRE ALARM CONTROL PANEL
- NAVIGATION LIGHT
PL = PIER LIGHT
CL = CLEARANCE LIGHT
GL = GAUGE LIGHT
- TRAFFIC SIGNALS
MUTCD COMPLIANT DEVICE
- SMOKE DETECTOR
IONIZATION TYPE, 4 WIRE,
FACP COMPATIBLE
- HEAT DETECTOR
FACP COMPATIBLE
- LIMIT SWITCH
PROX = PROXIMITY TYPE
LEV = LEVER TYPE
- PLUNGER SWITCH
- ROTARY CAM L.S.
- UG UNDERGROUND CONDUIT
BURIED CONDUIT PER NEC DEPTHS

SCHEMATIC DIAGRAM

- INDICATING LIGHT
R = RED
G = GREEN
Y = YELLOW
A = AMBER
B = BLUE
W = WHITE
- COIL
M = MOTOR STARTER
MF = MOTOR FORWARD
MR = MOTOR REVERSE
CR = CONTROL RELAY
TR = TIMER RELAY
PE = PHOTOELECTRIC RELAY
AR = ALTERNATING RELAY
C = CONTACTOR
SOL = SOLENOID OPERATED DEVICE
- RELAY CONTACTS
N.O. = NORMALLY OPEN
N.C. = NORMALLY CLOSED
- POWER SUPPLY
- STROBE LIGHT
- GONG
- SWITCHES
- SELECTOR SWITCH
HAND-OFF-AUTO
- PUSH BUTTON, MOMENTARY
NORMALLY CLOSED
NORMALLY OPEN
- PUSH BUTTON, MAINTAINED
NORMALLY CLOSED
PUSH-TO-OPEN
- PUSH BUTTON, KEY OPERATED
NORMALLY OPEN
- TIMER DELAY CONTACTS
N.O., CLOSE ON ENERGIZE
N.C., OPEN ON ENERGIZE
- N.O., OPEN ON DEENERGIZE
- N.C., CLOSE ON DEENERGIZE
- LIMIT SWITCHES
N.C. AT REST
N.C. HELD OPEN
N.O. AT REST
N.O. HELD CLOSED
- TEMPERATURE SWITCH
N.C. OPEN ON RISING TEMP.
N.O. CLOSE ON RISING TEMP.
- PRESSURE SWITCH
N.O., CLOSE ON RISING PRESS
N.C., OPEN ON RISING PRESS.
- FLOAT SWITCH
N.O., CLOSE ON RISING LEVEL

SCHEMATIC DIAGRAM

- WIRING
- Shielded Pair
- Twisted Pair
Outer Shield
- SURGE SUPPRESSOR
A3, B3, C3 = Category
- GROUND
- CONNECTION
- NO CONNECTION
- ABBREVIATIONS
- A, AMP AMPERES
- ABO AUXILIARY BRIDGE OPERATOR
- ATS AUTO TRANS. SWITCH
- BATT. CHR.G. BATTERY CHARGER
- BG BARRIER GATE
- BP BYPASS
- C. CONDUIT
- CAM ROTARY CAM LIMIT SWITCH
- CB CIRCUIT BREAKER
- CD CONTROL DESK
- CL CLEARANCE LIGHT
- CP CONTROL PANEL
- D, DN DOWN
- DISC DISCONNECT
- DR DOOR, DRIVE
- E.G. EARTH GROUND
- ENG/GEN ENGINE GENERATOR SET
- ESTOP EMERGENCY STOP
- FC (SPAN) FULLY CLOSED
- FO (SPAN) FULLY OPENED
- FL FLASHING LIGHTS
- FU FUSE
- G, GND GROUND
- GEN GENERATOR
- GL GAUGE LIGHT
- GONG GONG (BELL)
- GRN, GN GREEN
- HP HORSEPOWER
- HPU HYDRAULIC POWER UNIT
- HSE HOUSE
- IL INDICATING LIGHT
- IR CURRENT RELAY
- JB JUNCTION BOX (W/TB'S)
- KW KILOWATTS
- LA LIGHTNING ARRESTOR
- LGT, LGHTS LIGHT, LIGHTS
- LP LIGHTING PANEL
- LS LIMIT SWITCH
- M MOTOR CONTACTOR
- MACB MACHINERY BRAKE
- MCC MOTOR CONTROL CENTER
- MCP MOTOR CIRCUIT PROTECTOR
- MTR MOTOR
- MTRB MOTOR BRAKE
- MD MAIN DISC. SW.
- NAV NAVIGATION
- NC (SPAN) NEARLY CLOSED
- NO (SPAN) NEARLY OPENED
- PA/IC PUBLIC ADDRESS/INTERCOM
- PED PEDESTRIAN

ABBREVIATIONS (CONT'D)

- PB PUSH BUTTON, PULL BOX (NO TB'S)
- PL PIER LIGHT, PULL
- PP POWER PANEL
- PRGS RGS-PVC COATED
- RECPT RECEPTACLE
- RED RED LIGHT
- RGS RIGID GALVANIZED STEEL
- SIG SIGNAL
- SG SIDEWALK GATE
- SL SPAN LOCK
- STBY STANDBY
- SW SWITCH
- SUB SUBMARINE
- TB TERMINAL BLOCK
- TC TERMINATION CABINET
- TG TRAFFIC GATE
- TL TRAFFIC LIGHT
- TS THERMOSTAT SWITCH
- UPS UNINTERRUPTED POWER SUPPLY
- V VOLTS
- VSD VARIABLE SPEED DRIVE
- W WIRE, WATTS
- XDUCER TRANSDUCER
- XFMR, TX TRANSFORMER
- YEL YELLOW
- ZI POSITION INDICATOR
- ZT POSITION TRANSMITTER

LOCATION LEGEND

- CONTROL PANEL, CP-1
- Control Desk, CP-2
- Automatic Transfer Switch
- Lighting Controller
- Drive System Panel
- Engine-Generator Panel
- Field Located Device
- Gates
- HYDRAULIC POWER UNIT
- SPAN LOCK
- MOTOR CONTACTOR
- TRUNNION CABLE: BOX-CABLE-BOX
- XFER. SW.
- SUBMARINE CABLE: BOX-CABLE-BOX
- SURGE SUPPRESSION PANEL
- UPS, UNINTERRUPTABLE POWER SUPPLY
- VARIABLE SPEED DRIVE

———— EQUIPMENT TO BE REPLACED
 - - - - EQUIPMENT TO BE REMAIN

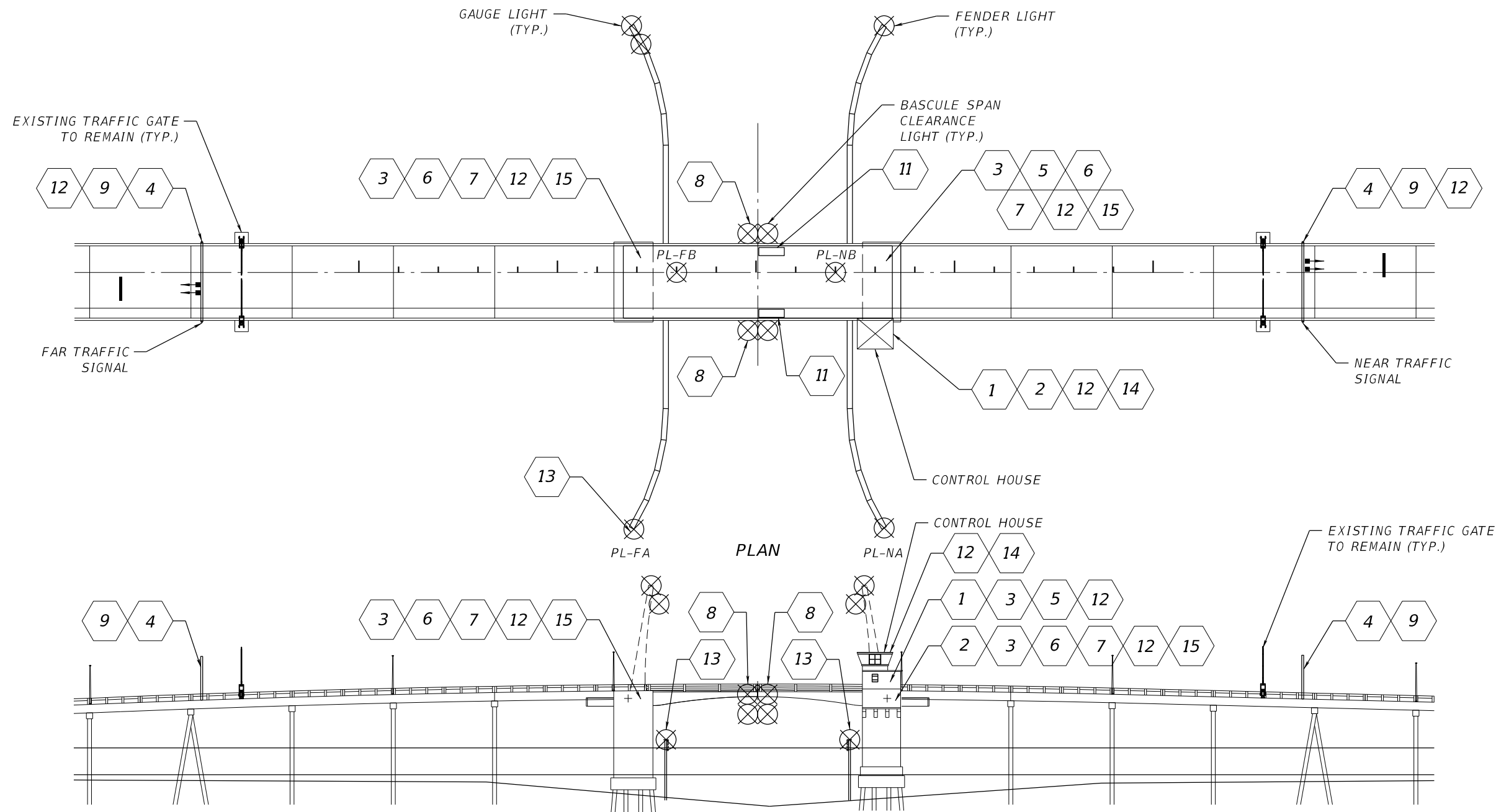
NOTES:
 NOMENCLATURE FOR DEVICES AND LOCATION ARE ASSIGNED USING THE FOLLOWING CONVENTION:
 NW = NORTHWEST
 SW = SOUTHWEST
 NE = NORTHEAST
 SE = SOUTHEAST **BRIDGE NO. 170061**

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					

MARCO A. LARA
 License Number: 78414
 HARDESTY AND HANNOVER, LLC
 5110 EISENHOWER BLVD., SUITE 310
 TAMPA, FLORIDA 33634

DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: ELECTRICAL SYMBOLS AND ABBREVIATIONS	REF. DWG. NO. BE-2
CHECKED BY: APB 11-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
DESIGNED BY: MAL 11-24	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-58
CHECKED BY: APB 11-24					

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



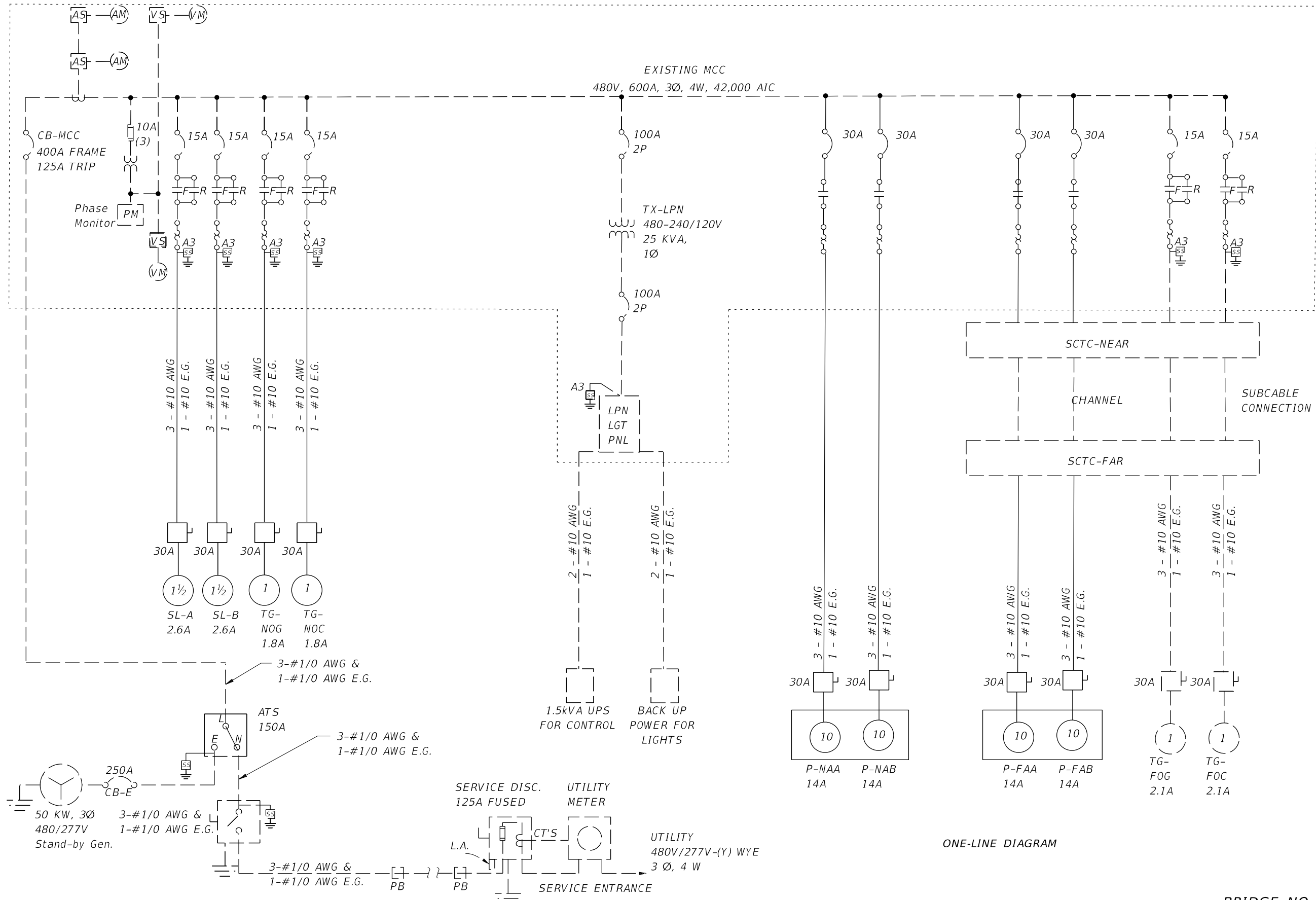
ELEVATION

- | | | |
|---|--|--|
| <p>1 REPLACE TRAFFIC GATE AND SPAN LOCK MOTOR STARTERS WITHIN THE EXISTING MOTOR CONTROL CENTER.</p> <p>2 REPLACE EXISTING AUTOMATIC TRANSFER SWITCH.</p> <p>3 PROVIDE LIGHTING EQUIPMENT AS INDICATED ON THE PLANS.</p> <p>4 REPLACE EXISTING TRAFFIC SIGNAL ASSEMBLIES. REPLACE EXISTING SIGNAL LAMPS WITH LED LAMPS.</p> <p>5 FURNISH AND INSTALL NAVIGATION LIGHTING UPS SYSTEM.</p> | <p>6 REPLACE HYDRAULIC POWER UNIT MOTORS, TERMINATIONS BOXES, AND HEATERS.</p> <p>7 REPLACE MAIN SPAN MOTOR CONDUIT, WIRING, AND DISCONNECT SWITCHES.</p> <p>8 REPLACE BASCULE SPAN CLEARANCE LIGHTS AND ASSOCIATED CONDUIT, WIRING, AND JUNCTION BOXES.</p> <p>9 REPLACE "DRAWBRIDGE SIGNAL" SIGNS.</p> <p>10 REPLACE GAUGE LIGHTS AND ASSOCIATED, CONDUIT, WIRING AND JUNCTION BOXES.</p> | <p>11 REPLACE SPAN LOCK ACTUATOR AND ASSOCIATED SPAN LOCK CONDUIT, WIRING, LIMIT SWITCHES, JUNCTION BOXES, AND TERMINATIONS.</p> <p>12 REPLACE EXISTING PA SYSTEM, CONDUIT AND ASSOCIATED, WIRING AND JUNCTION BOXES AND MOUNTING BRACKETS.</p> <p>13 REPLACE FENDER LIGHTS AND ASSOCIATED CONDUIT, WIRING, AND JUNCTION BOXES.</p> <p>14 REFURBISH EXISTING CONTROL CONSOLE. REPLACE SELECT LENSES, NAMEPLATES, BUTTONS, SWITCHES AND LAMPS.</p> <p>15 REPLACE HYDRAULIC POWER UNIT CONTROL PANEL.</p> |
|---|--|--|

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: ELECTRICAL PLAN AND ELEVATION		REF. DWG. NO. BE-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: APB 11-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-59
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01			

MARCO A. LARA
License Number: 78414
HARDESTY AND HANNOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634



ONE-LINE DIAGRAM

BRIDGE NO. 170061

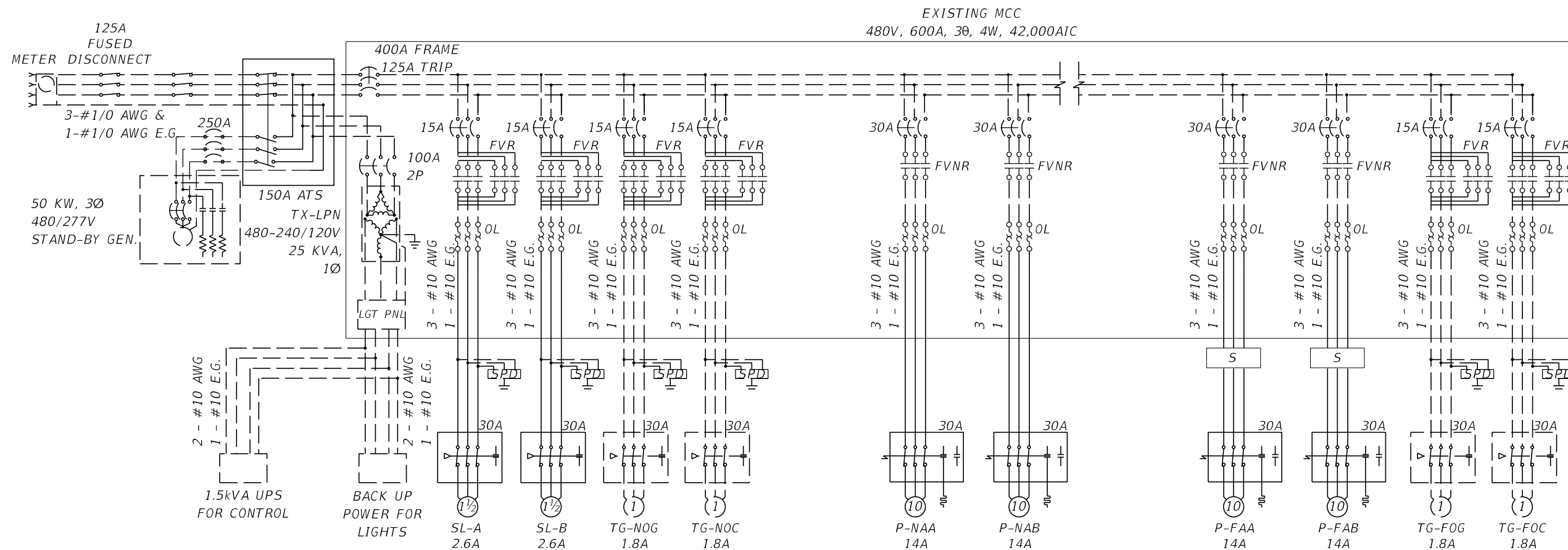
REVISIONS				DRAWN BY:		STATE OF FLORIDA			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DEPARTMENT OF TRANSPORTATION			SINGLE LINE DIAGRAM		BE-4
						ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		B1-60

60% SUBMITTAL
SUBJECT TO CHANGE

MARCO A. LARA
License Number: 78414
HARDESTY AND HANNOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

DESIGNED BY:
MAL 11-24
CHECKED BY:
APB 11-24

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

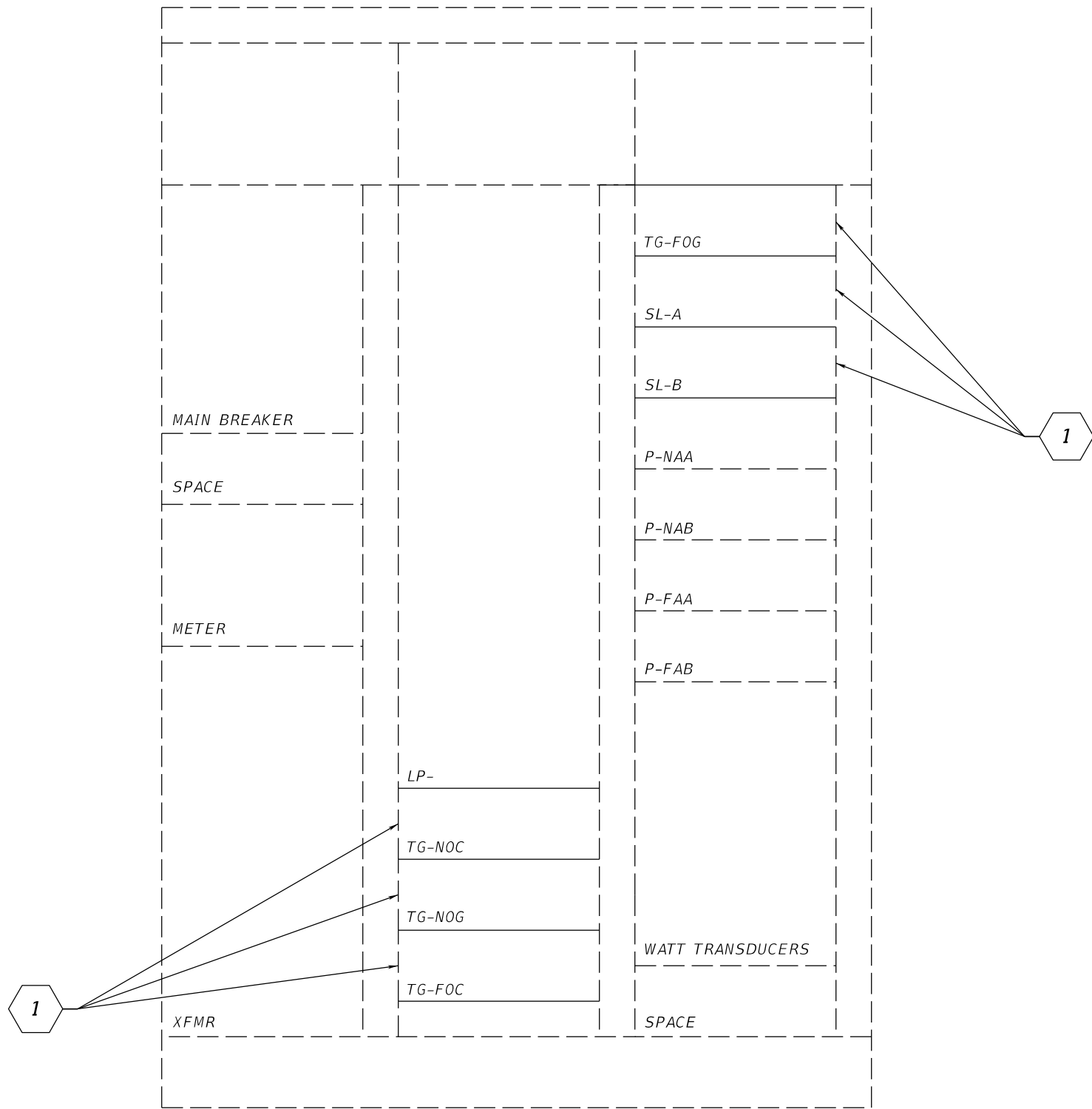


THREE-LINE DIAGRAM

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24 CHECKED BY: APB 11-24 DESIGNED BY: MAL 11-24 CHECKED BY: APB 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: THREE LINE DIAGRAM		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY		SHEET NO.
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01			BE-5	
											B1-61	

MARCO A. LARA
License Number: 78414
HARDESTY AND HANNOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634



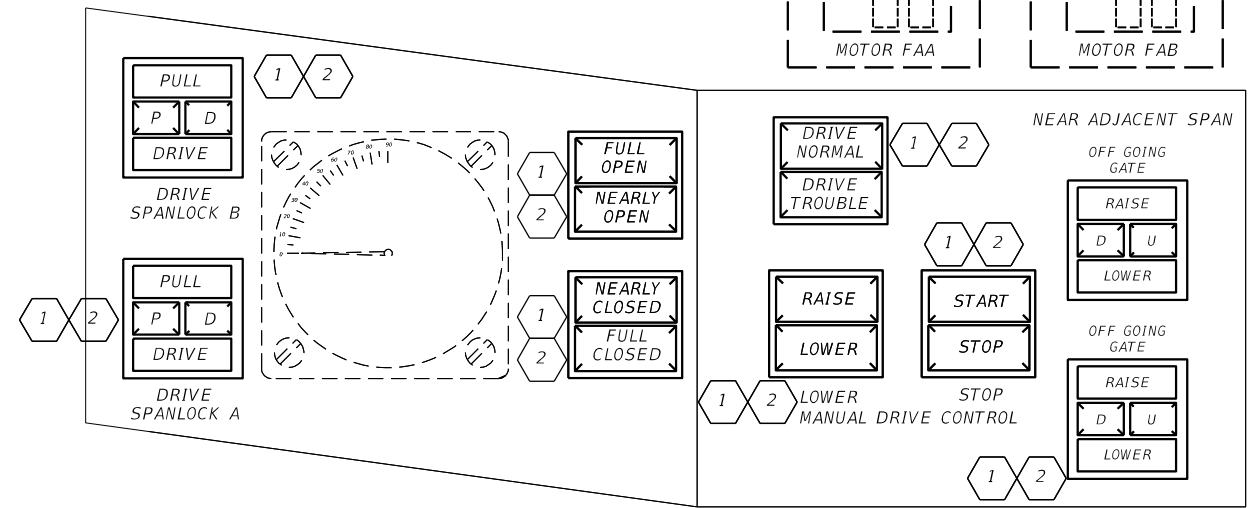
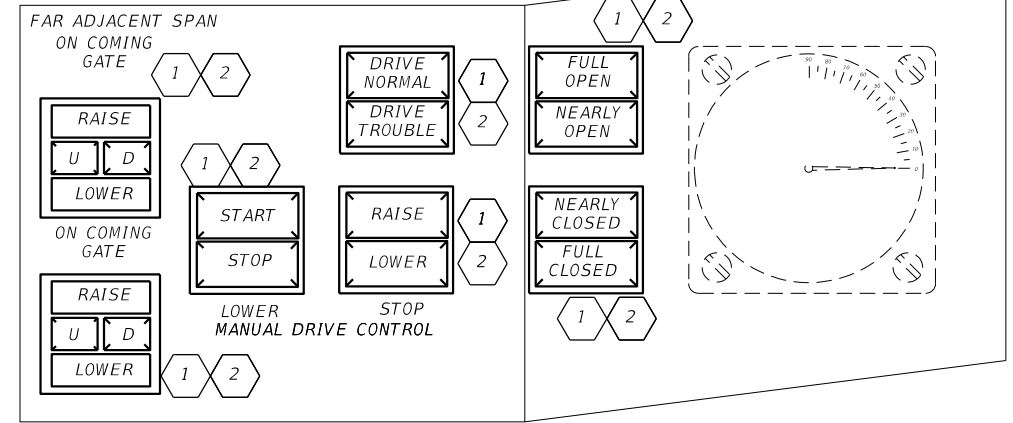
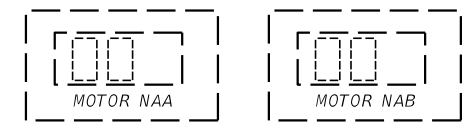
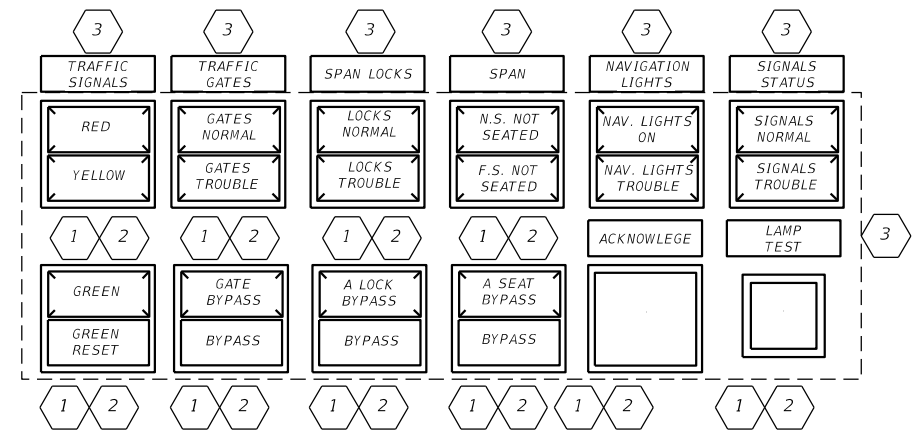
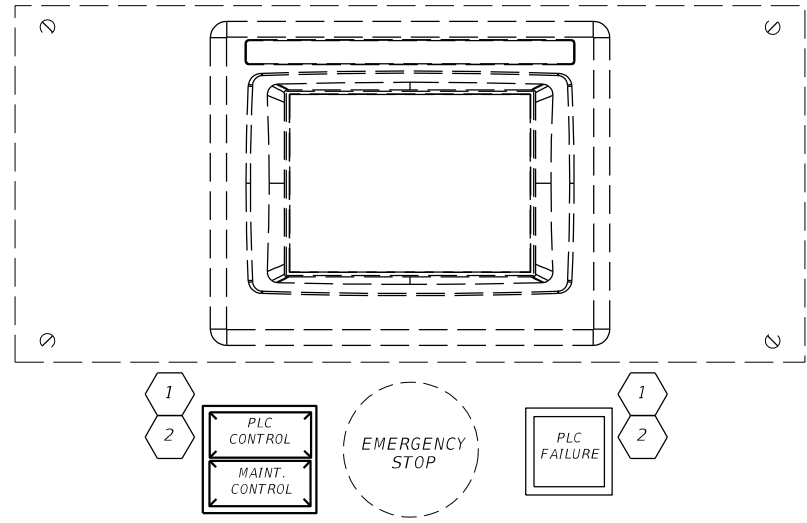
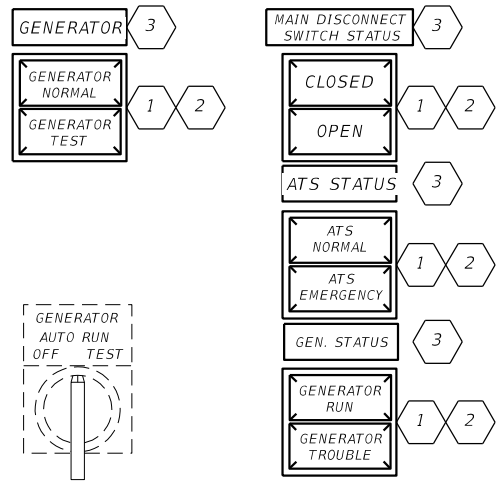
EXISTING MOTOR CONTROL CENTER LAYOUT

LIGHTING FIXTURE SCHEDULE			
TYPE	DESCRIPTION	LAMPS	MOUNTING
	CEILING MOUNT, VAPOR TIGHT, CORROSION RESISTANT FIXTURE WITH JUNCTION BOX, POLYCARBONATE GLOBE AND GUARD, BRASS SCREW SHELL LAMPHOLDER AND 120V, 26 WATT LED LAMP	1-26W LED	CEILING MOUNT
	EMERGENCY LIGHT WITH BATTERY PACK (90 MINUTES), SELF CONTAINED, FULLY AUTOMATIC, 120V	2-15W LED	WALL MOUNT
	OUTDOOR LED FLOOD LIGHT, CAST ALUMINUM HOUSING, POLYCARBONATE VANDAL SHIELD, WATERTIGHT, GASKETED, STAINLESS STEEL HARDEARED, 120V.	1-100W LED	POLE MOUNT WITH ADJUST TILT/SWIVEL

1 REPLACE TRAFFIC GATE AND SPAN LOCK STARTERS.

BRIDGE NO. 170061

REVISIONS					DRAWN BY: PCR 11-24 CHECKED BY: APB 11-24 DESIGNED BY: MAL 11-24 CHECKED BY: APB 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: MOTOR CONTROL CENTER (MCC) LAYOUT		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:		SHEET NO.
						SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY		BE-6
60% SUBMITTAL SUBJECT TO CHANGE					MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						B1-62



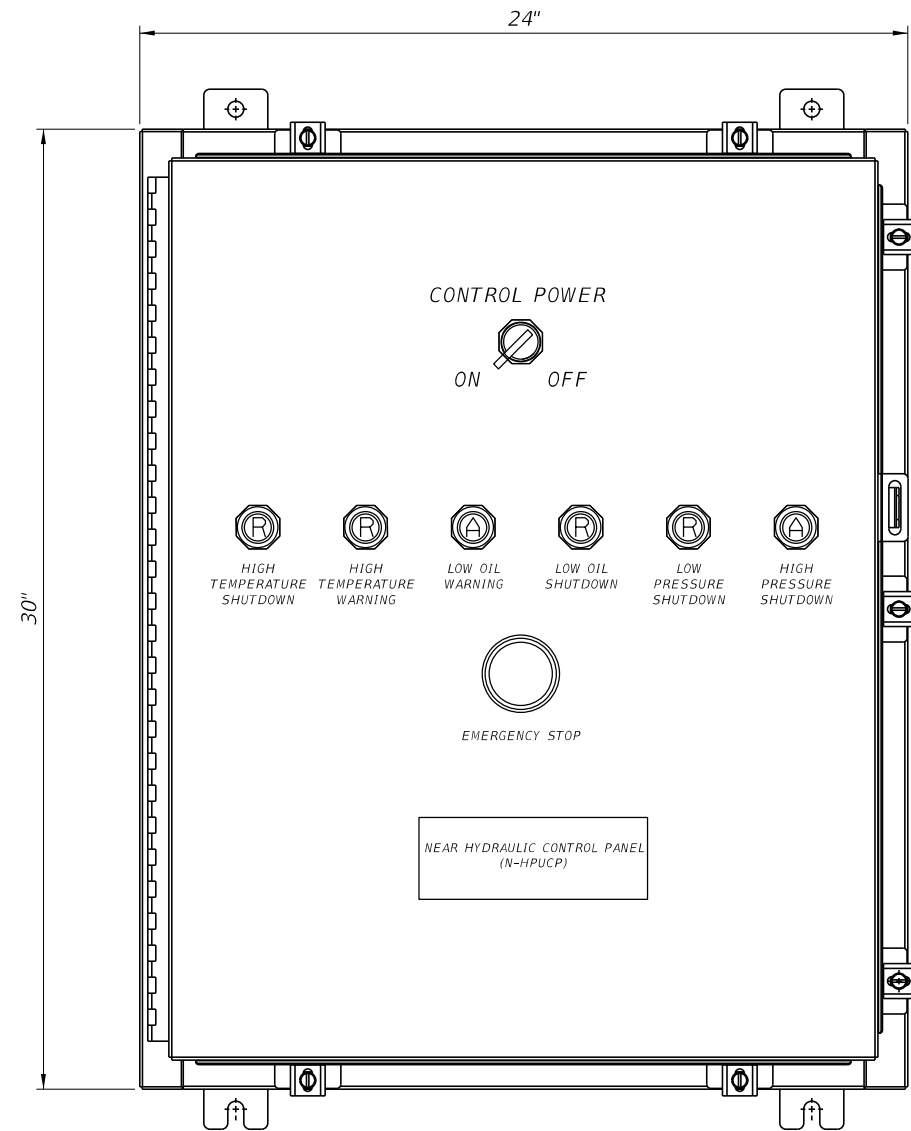
TASK LEGEND:
 1. REPLACE PUSHBUTTON INSERTS, LENSES AND PHENOLIC NAMEPLATES.
 2. REPLACE INDICATOR LAMPS WITH LED TYPE.
 3. PROVIDE NAMEPLATES AS NOTED.

NOTES:
 1. DASHED LINES DENOTES EXISTING ELECTRICAL COMPONENTS TO REMAIN.

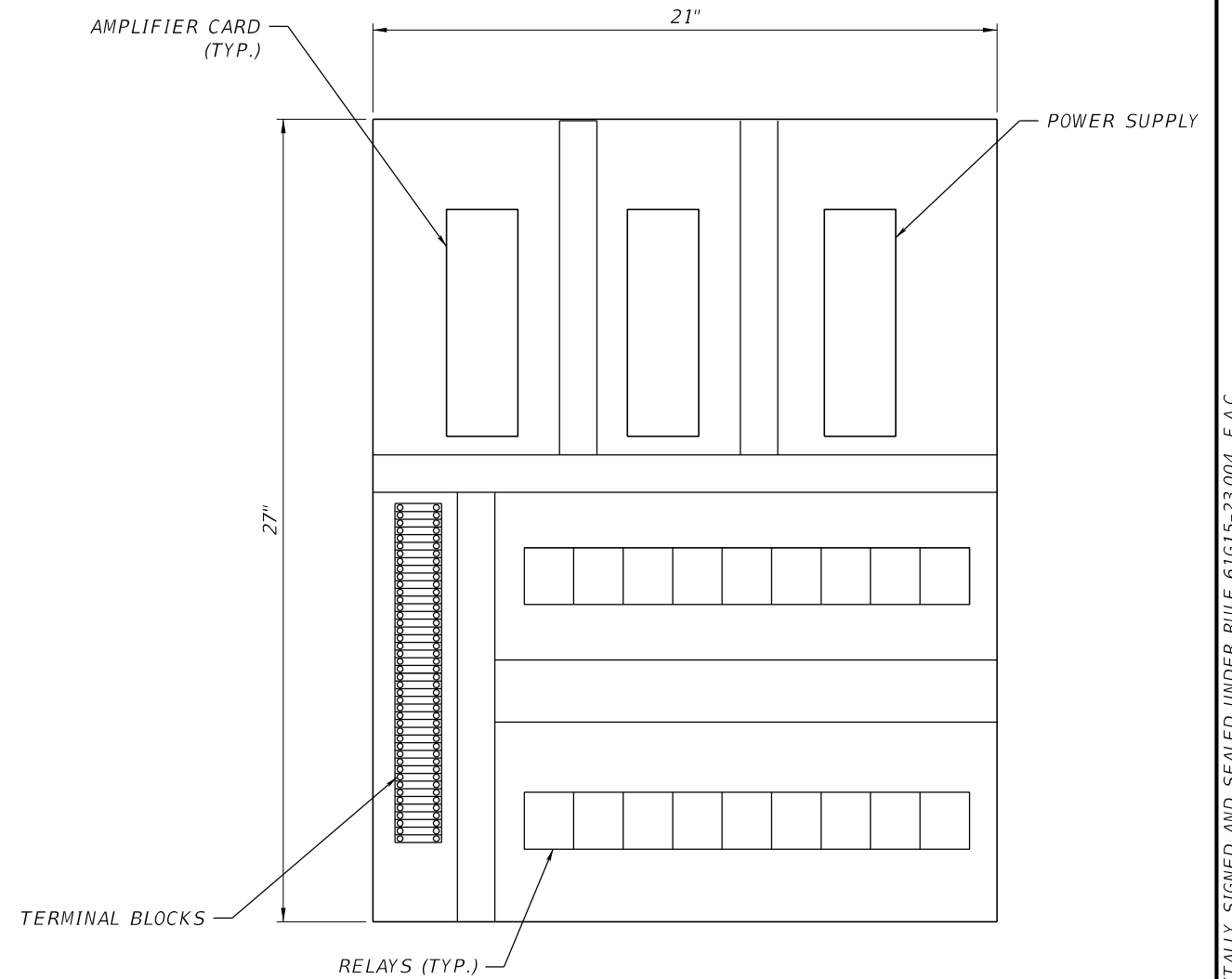
BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	CHECKED BY: APB 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CONTROL CONSOLE LAYOUT	REF. DWG. NO. BE-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-63	

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



NEAR HYDRAULIC POWER UNIT CONTROL PANEL (N-HCUCP)



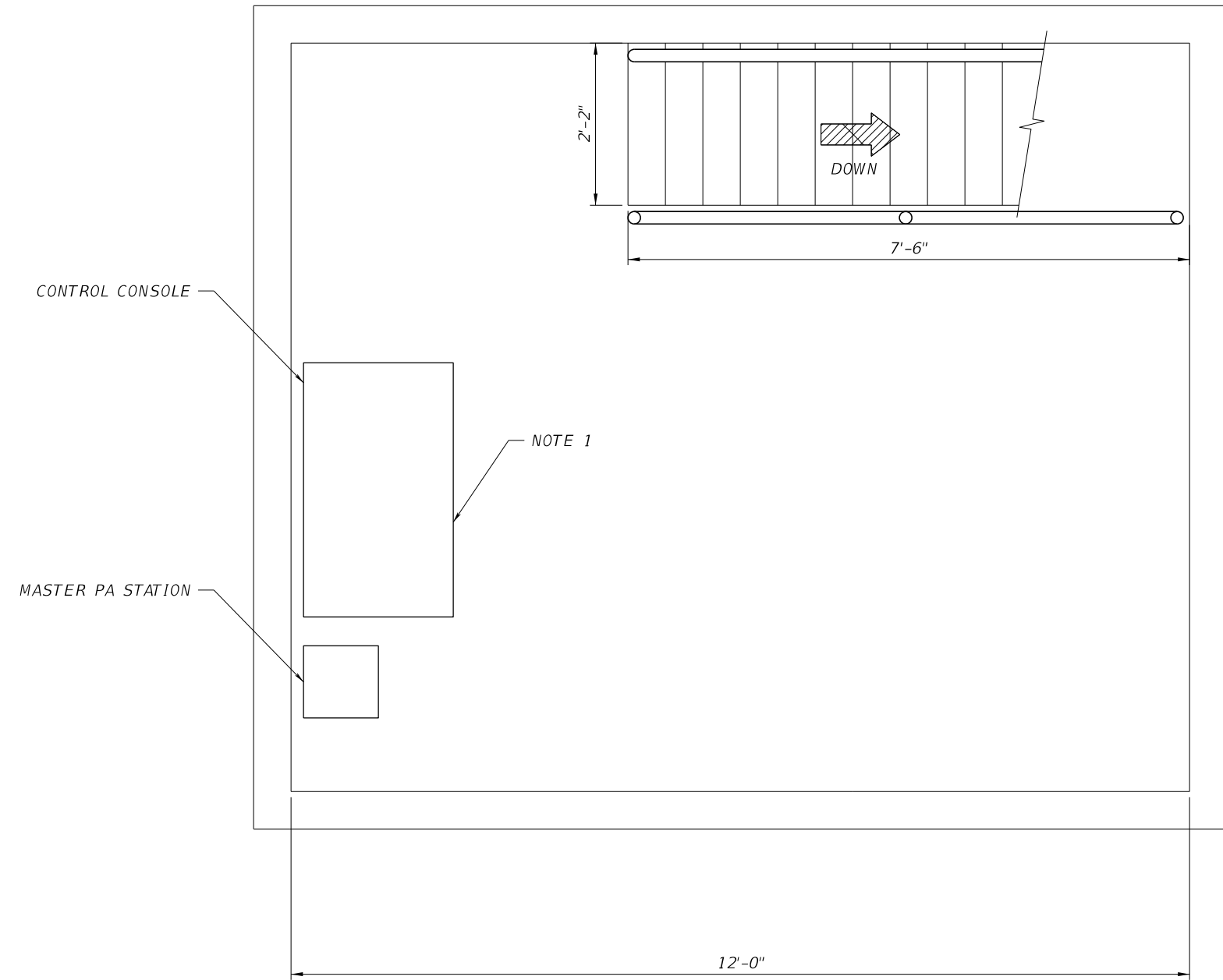
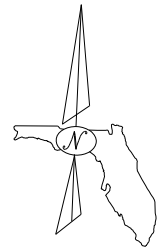
HYDRAULIC CONTROL BACKPANEL

- NOTES:
 1. REPLACE HYDRAULIC CONTROL PANEL COMPONENTS AND CABINETS (QTY. 2). MATCH EXISTING FUNCTIONALITY BY FIELD VERIFICATION AND COORDINATION WITH THE HYDRAULIC POWER UNIT SUPPLIERS.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SHEET TITLE: HYDRAULIC POWER UNIT CONTROL PANEL LAYOUT	REF. DWG. NO. BE-8		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
					60% SUBMITTAL SUBJECT TO CHANGE	CHECKED BY: APB 11-24	ROAD NO. SR 758	COUNTY SARASOTA	FINANCIAL PROJECT ID 451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-64
						DESIGNED BY: MAL 11-24					
						CHECKED BY: APB 11-24					

MARCO A. LARA
 License Number: 78414
 HARDESTY AND HANNOVER, LLC
 5110 EISENHOWER BLVD., SUITE 310
 TAMPA, FLORIDA 33634



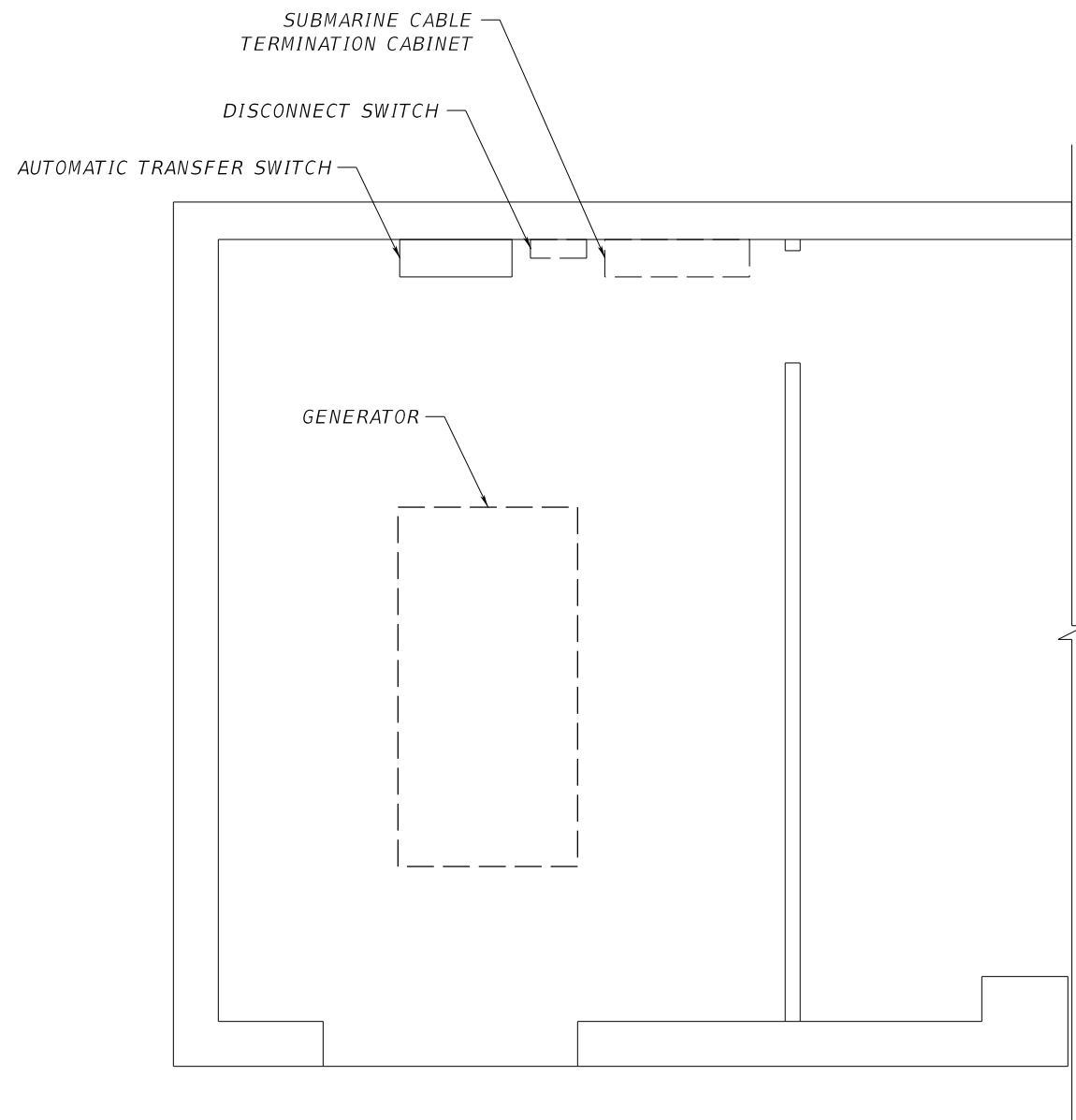
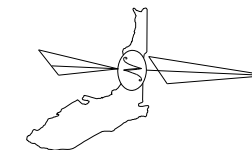
NOTES:
 1. EXISTING CONTROL CONSOLE TO REMAIN. REPLACE INDICATOR LAMPS, LENSES AND PUSH BUTTONS. REFER TO BE-7 FOR ADDITIONAL INFORMATION.

OBSERVATION LEVEL PLAN

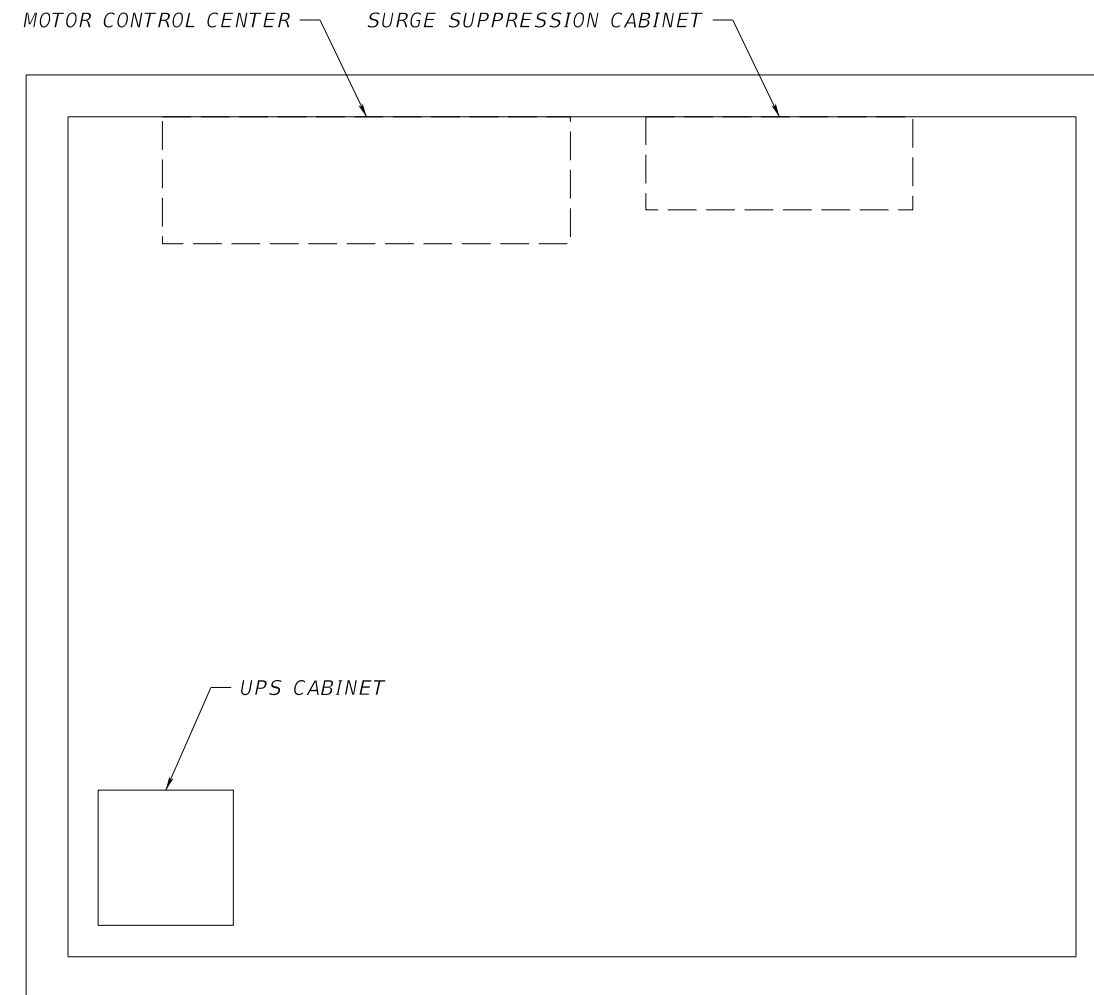
BRIDGE NO. 170061

REVISIONS					DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CONTROL HOUSE ELECTRICAL PLAN LAYOUT	REF. DWG. NO. BE-9	
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
						SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-65	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						

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



GENERATOR LEVEL



ROADWAY LEVEL

BRIDGE NO. 170061

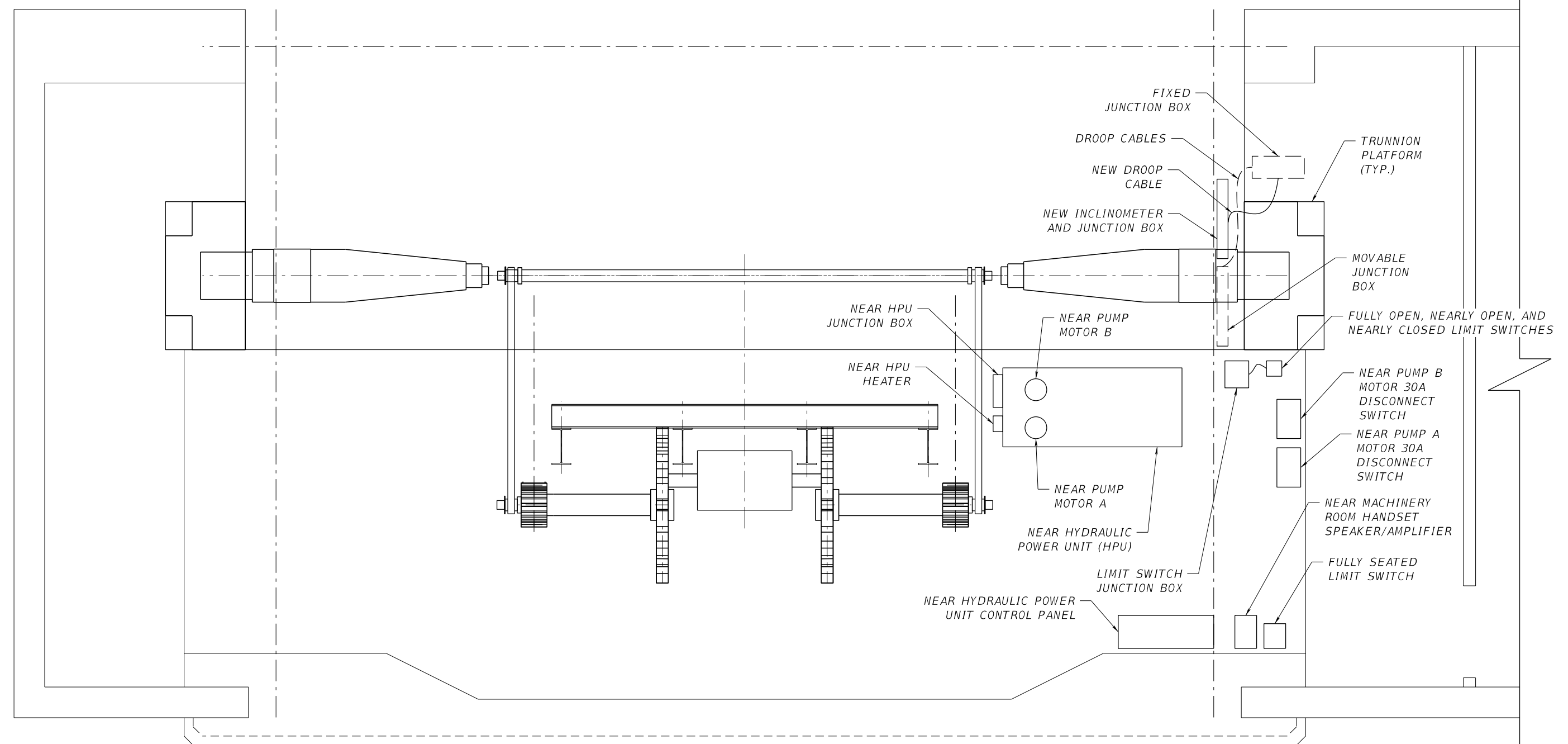
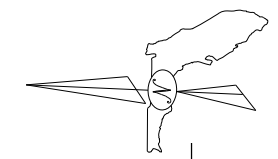
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
					60% SUBMITTAL SUBJECT TO CHANGE

MARCO A. LARA
 License Number: 78414
 HARDESTY AND HANNOVER, LLC
 5110 EISENHOWER BLVD., SUITE 310
 TAMPA, FLORIDA 33634

DRAWN BY:
PCR 11-24
 CHECKED BY:
APB 11-24
 DESIGNED BY:
MAL 11-24
 CHECKED BY:
APB 11-24

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 758	SARASOTA	451280-1-52-01

SHEET TITLE: GENERATOR ROOM ELECTRICAL PLAN LAYOUT	REF. DWG. NO. BE-10
PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-66

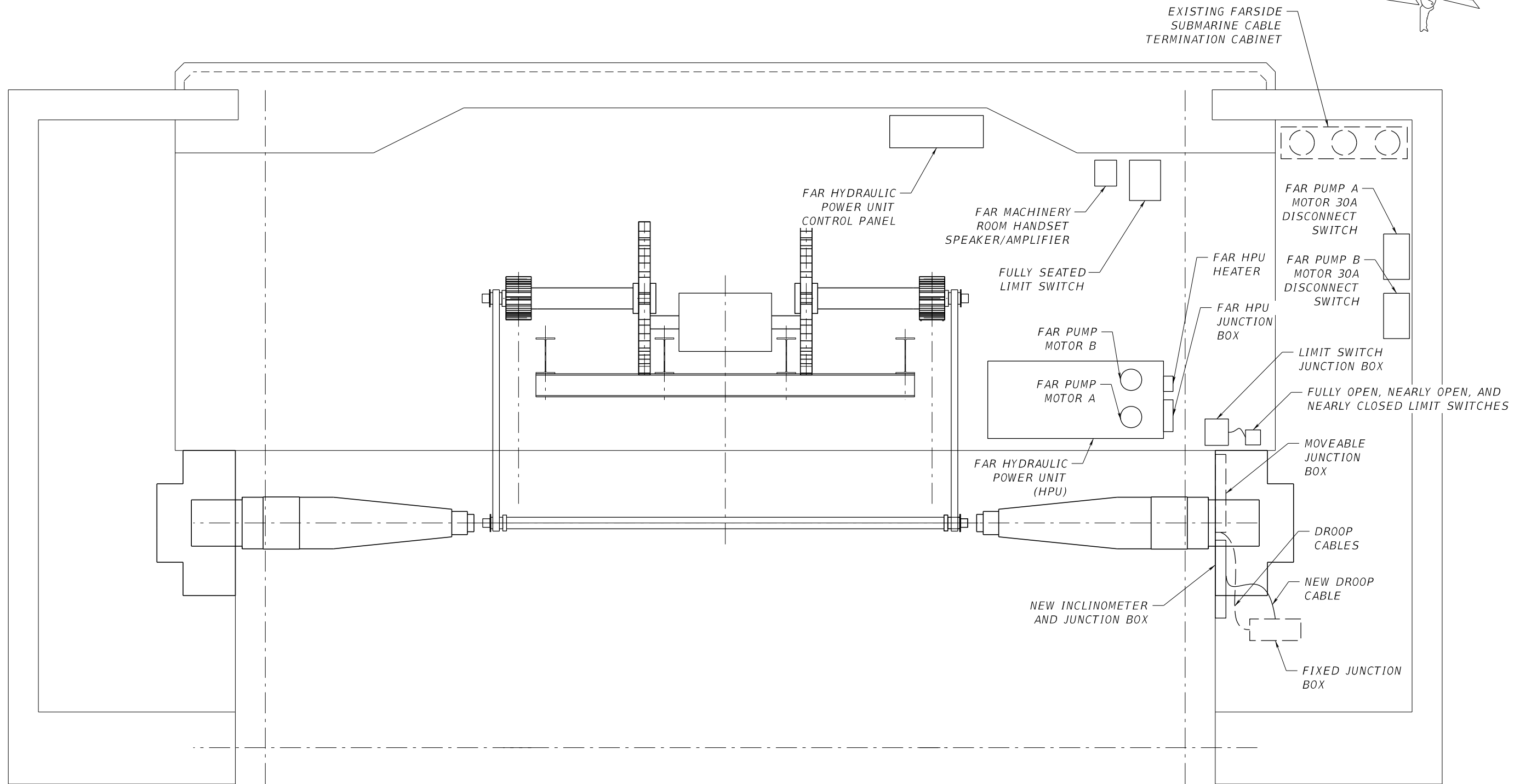
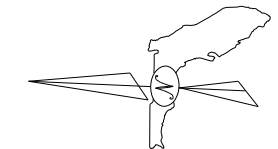


NEAR MACHINERY LEVEL

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: NEAR BASCULE PIER ELECTRICAL PLAN LAYOUT	REF. DWG. NO. BE-11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-67
MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						CHECKED BY: APB 11-24 DESIGNED BY: MAL 11-24 CHECKED BY: APB 11-24					

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

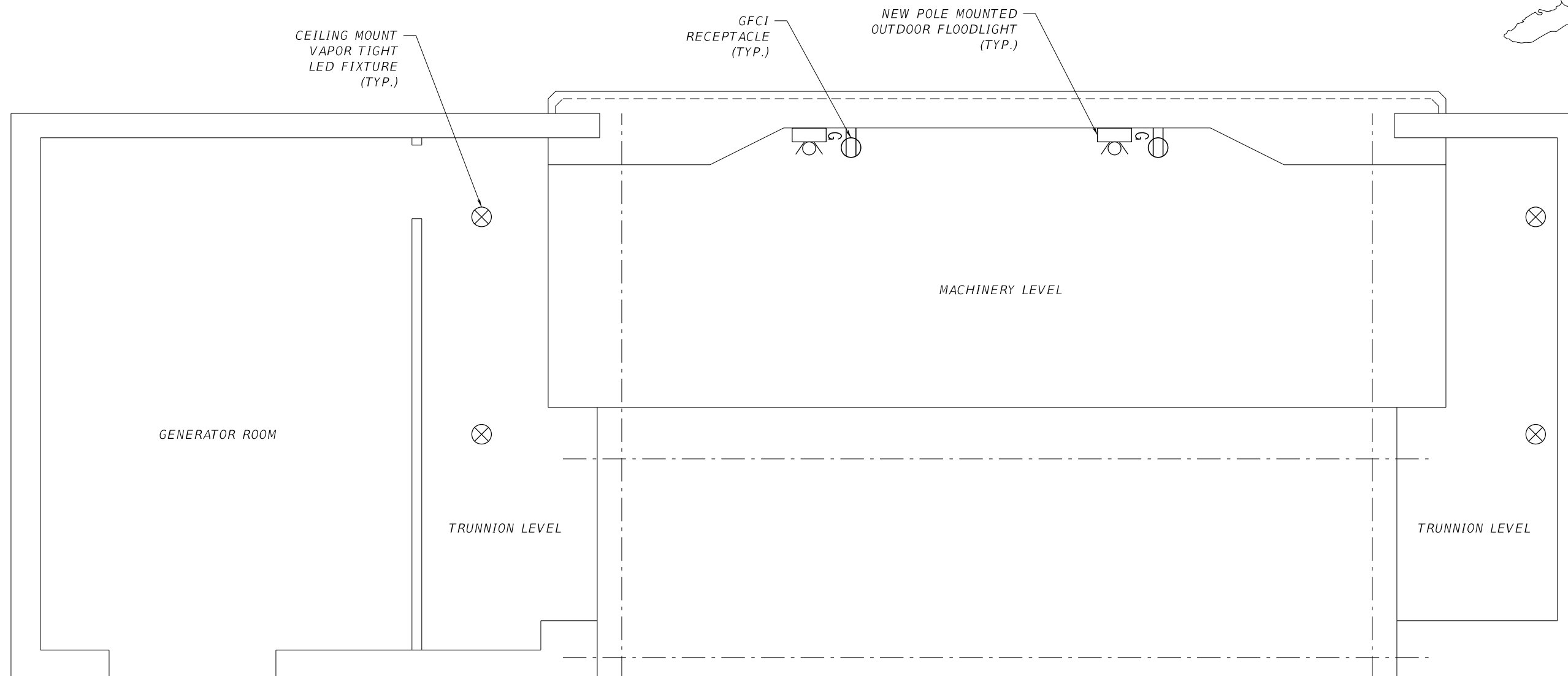
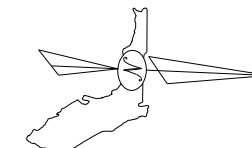


FAR MACHINERY LEVEL

BRIDGE NO. 170061

REVISIONS					DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: FAR BASCULE PIER ELECTRICAL PLAN LAYOUT	REF. DWG. NO. BE-12	
DATE	BY	DESCRIPTION	DATE	BY		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			PROJECT NAME:
					CHECKED BY: APB 11-24	SR 758	SARASOTA	451280-1-52-01	FAR 758 OVER SARASOTA BAY	B1-68	
					DESIGNED BY: MAL 11-24						
					CHECKED BY: APB 11-24						
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						

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

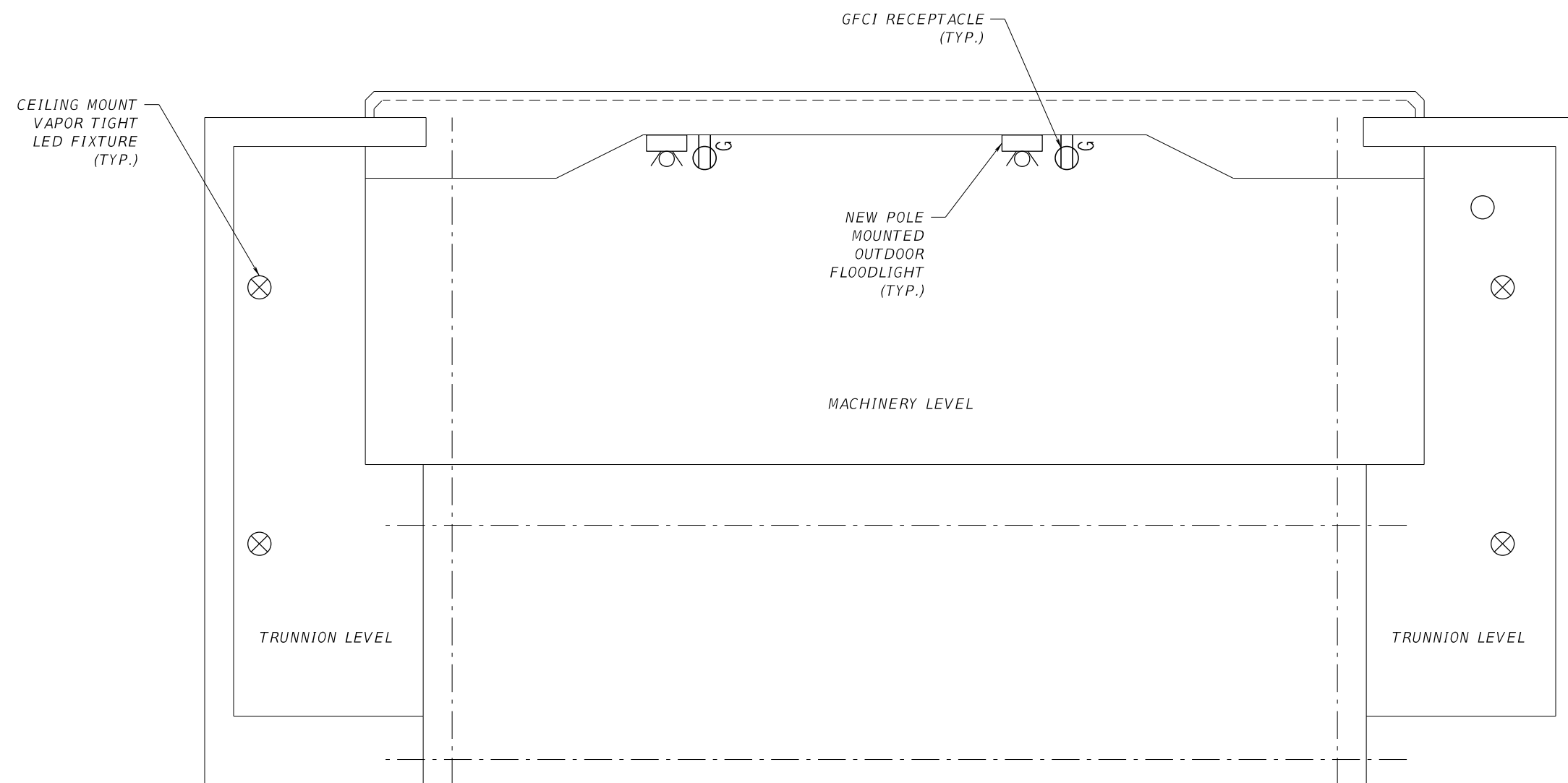
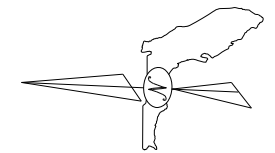


NEAR MACHINERY LIGHT PLAN

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: NEAR BASCULE PIER LIGHTING PLAN LAYOUT	REF. DWG. NO. BE-13
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-69
						MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634					

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

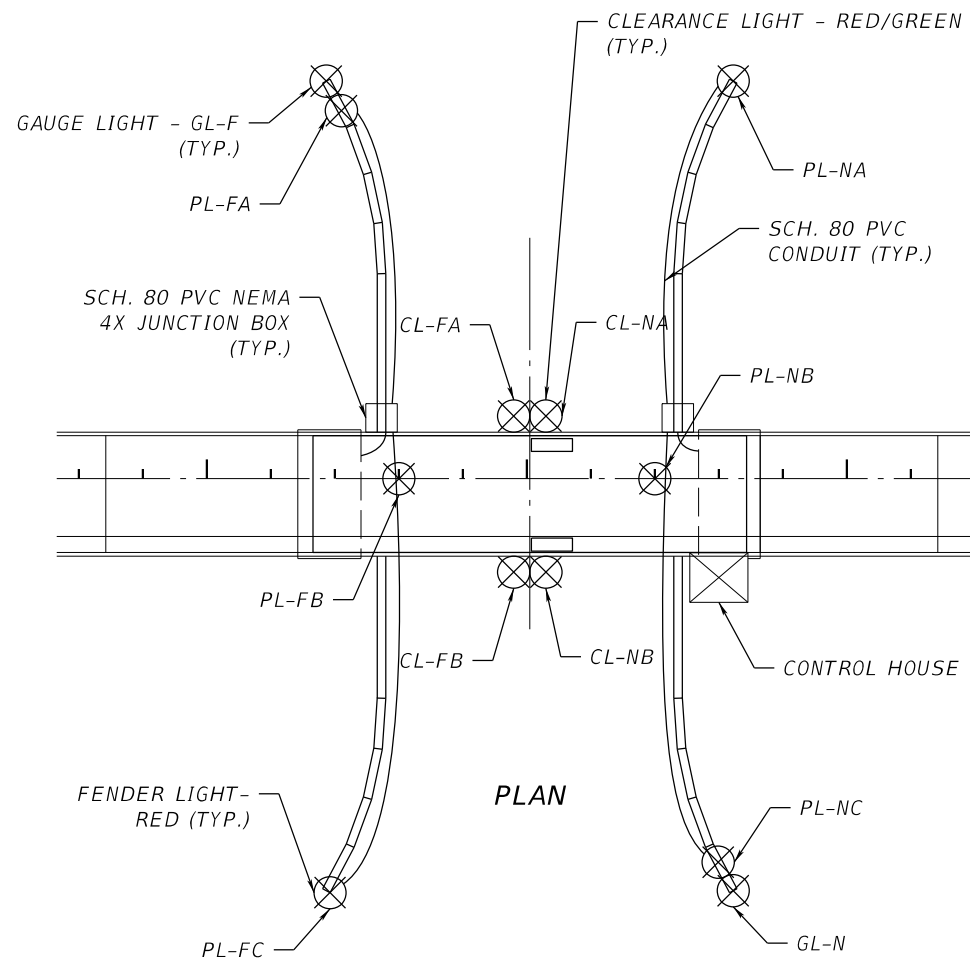


FAR MACHINERY LIGHT PLAN

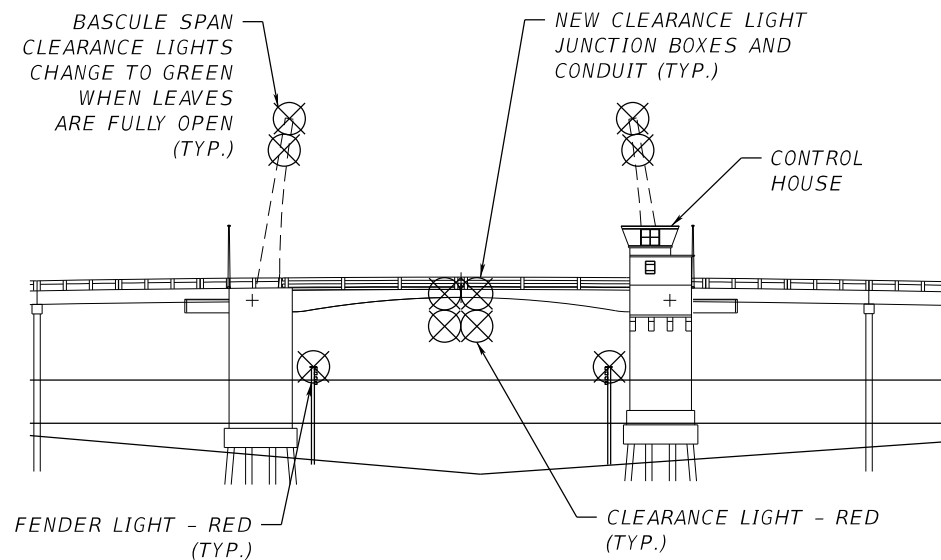
BRIDGE NO. 170061

REVISIONS					DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.	
DATE	BY	DESCRIPTION	DATE	BY		DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	FAR BASCULE PIER LIGHTING PLAN LAYOUT	BE-14
						SR 758	SARASOTA	451280-1-52-01	PROJECT NAME: SR 758 OVER SARASOTA BAY	SHEET NO. B1-70	
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634						

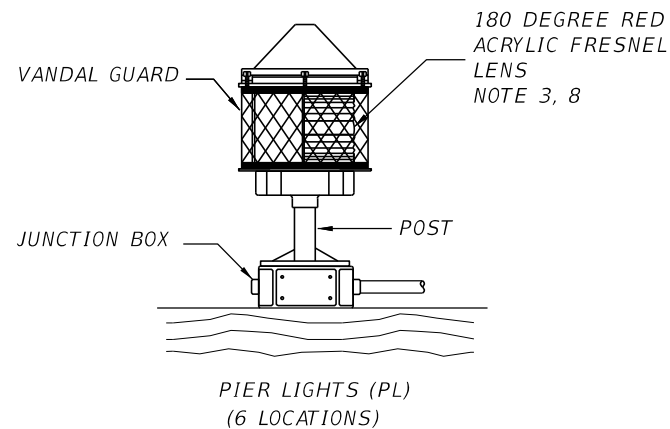
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



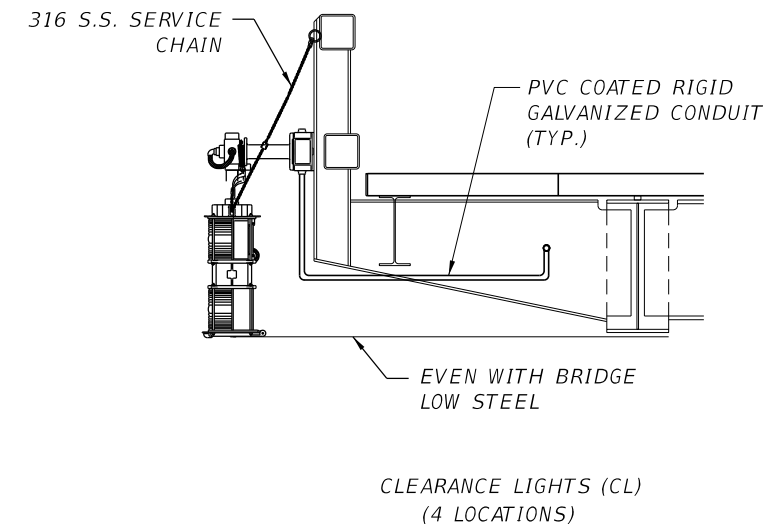
PLAN



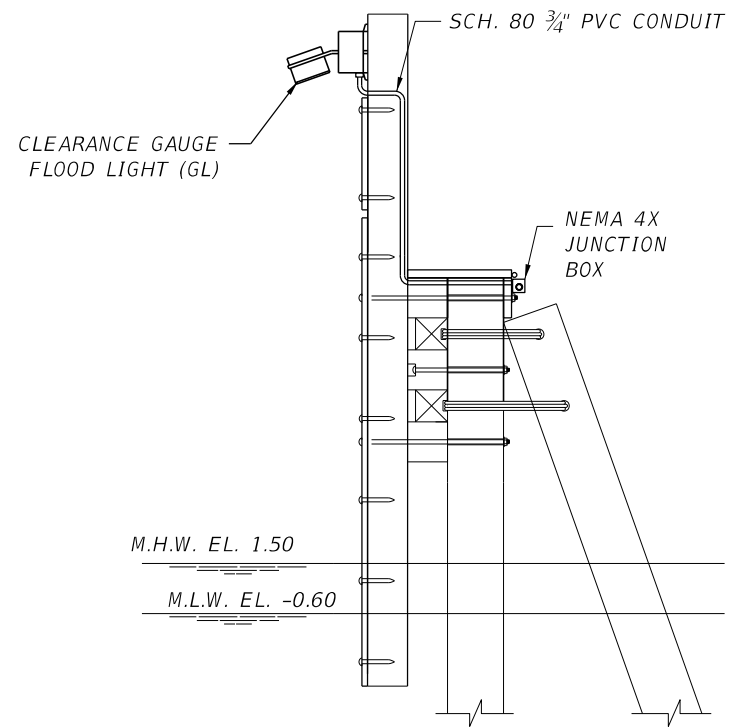
ELEVATION



PIER LIGHTS (PL)
(6 LOCATIONS)



CLEARANCE LIGHTS (CL)
(4 LOCATIONS)



TYPICAL CONDUIT AND GAUGE LIGHT (GL)
(2 LOCATIONS)

- NOTES:
1. CL - CLEARANCE LIGHT. COMBINATION RED AND GREEN LED FIXTURE WITH 180 DEGREE LENS IN CAST SILICON BRONZE BODY.
 2. PL - PIER (FENDER) LIGHT. RED LED FIXTURE.
 3. GL - GAUGE LIGHT. LED FIXTURE IN DIE CAST ALUMINUM BODY.
3. PROVIDE SUBMITTAL TO INCLUDE 316 STAINLESS STEEL MOUNTING HARDWARE AND BRACKETS. MOUNT CL FIXTURE 2'-0" MIN. TO 3'-0" MAX FROM TIP OF LEAF.

BRIDGE NO. 170061

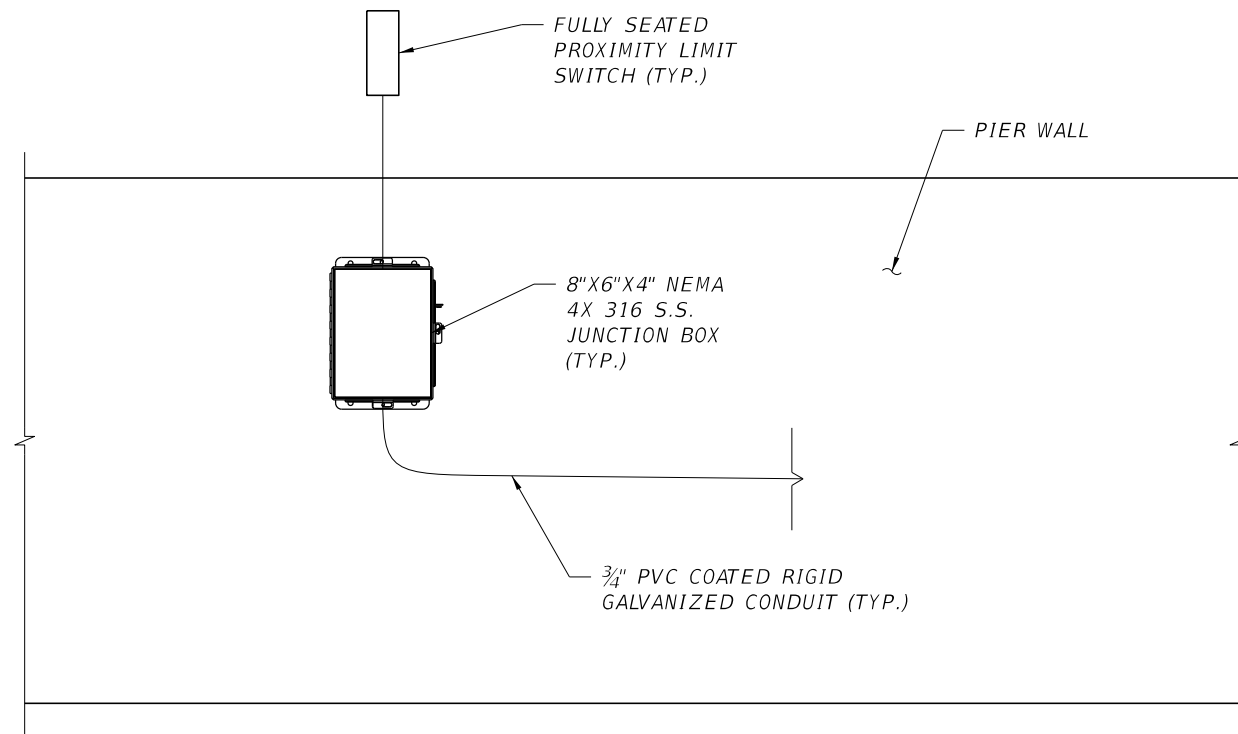
REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
<div style="border: 1px dashed black; padding: 5px; display: inline-block;"> 60% SUBMITTAL SUBJECT TO CHANGE </div>					

MARCO A. LARA
License Number: 78414
HARDESTY AND HANNOVER, LLC
5110 EISENHOWER BLVD., SUITE 310
TAMPA, FLORIDA 33634

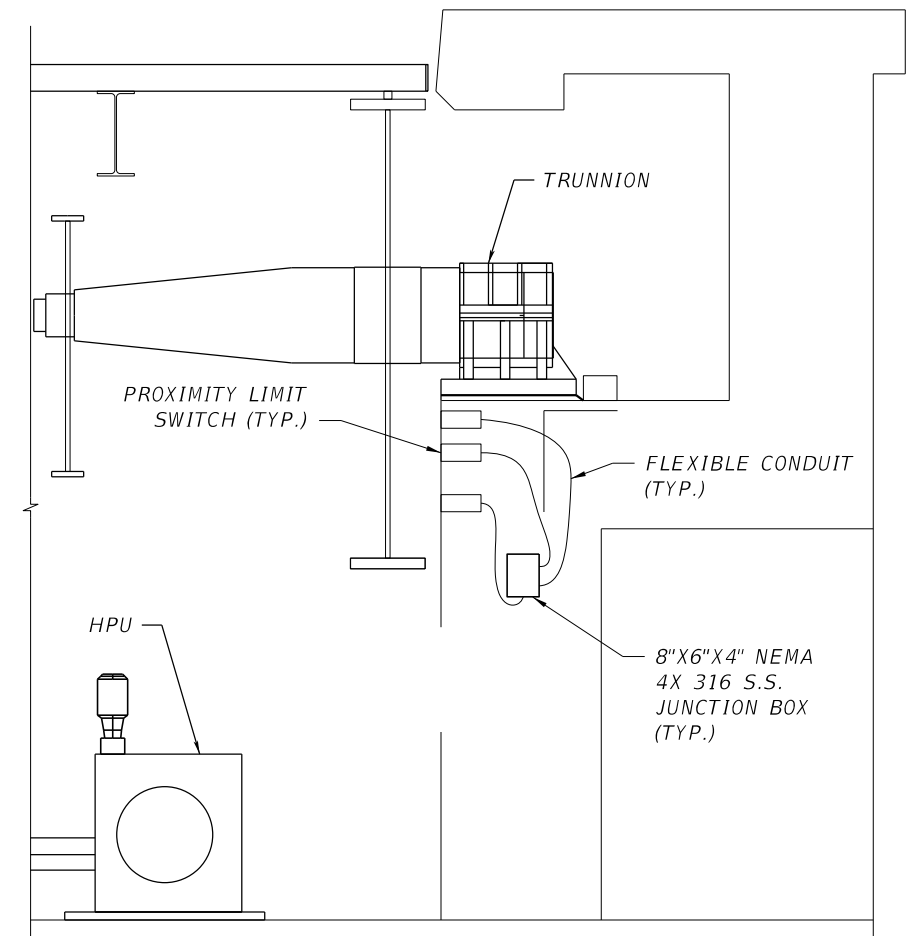
DRAWN BY: PCR 11-24			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
CHECKED BY: APB 11-24					
DESIGNED BY: MAL 11-24			ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CHECKED BY: APB 11-24			SR 758	SARASOTA	451280-1-52-01

SHEET TITLE: NAVIGATION LIGHTING PLAN AND DETAILS		REF. DWG. NO. BE-15
PROJECT NAME: SR 758 OVER SARASOTA BAY		SHEET NO. B1-71

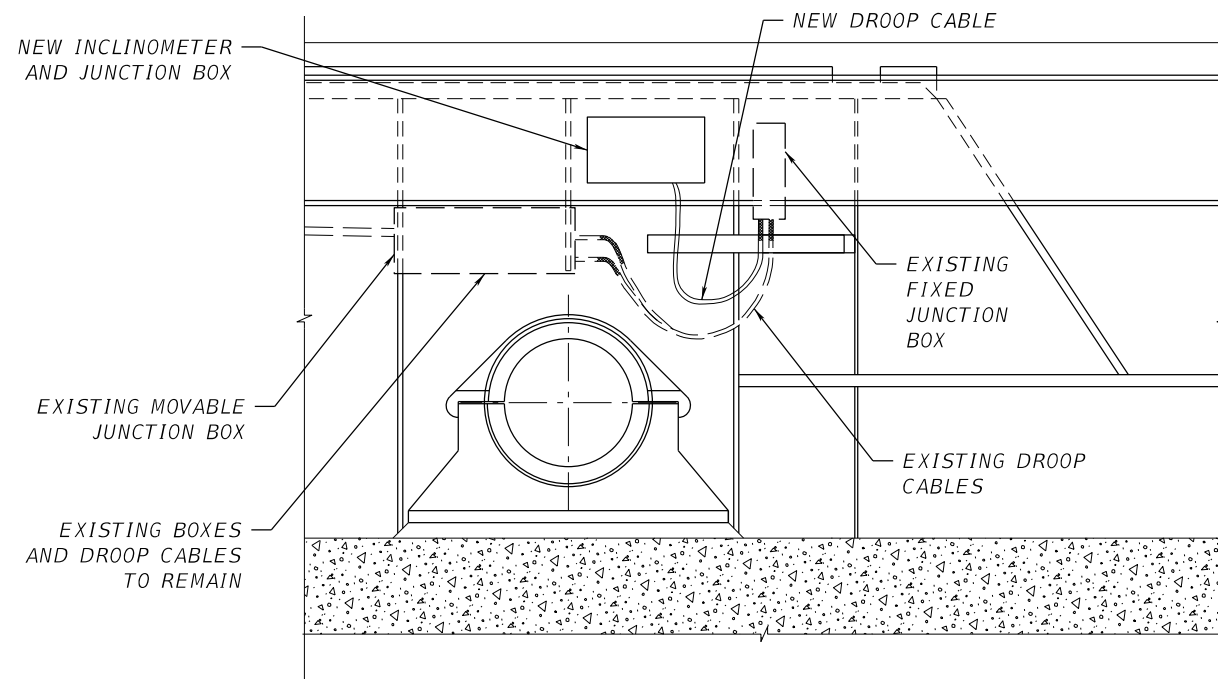
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



FULLY SEATED LIMIT SWITCH DETAIL



PROXIMITY LIMIT SWITCH DETAIL



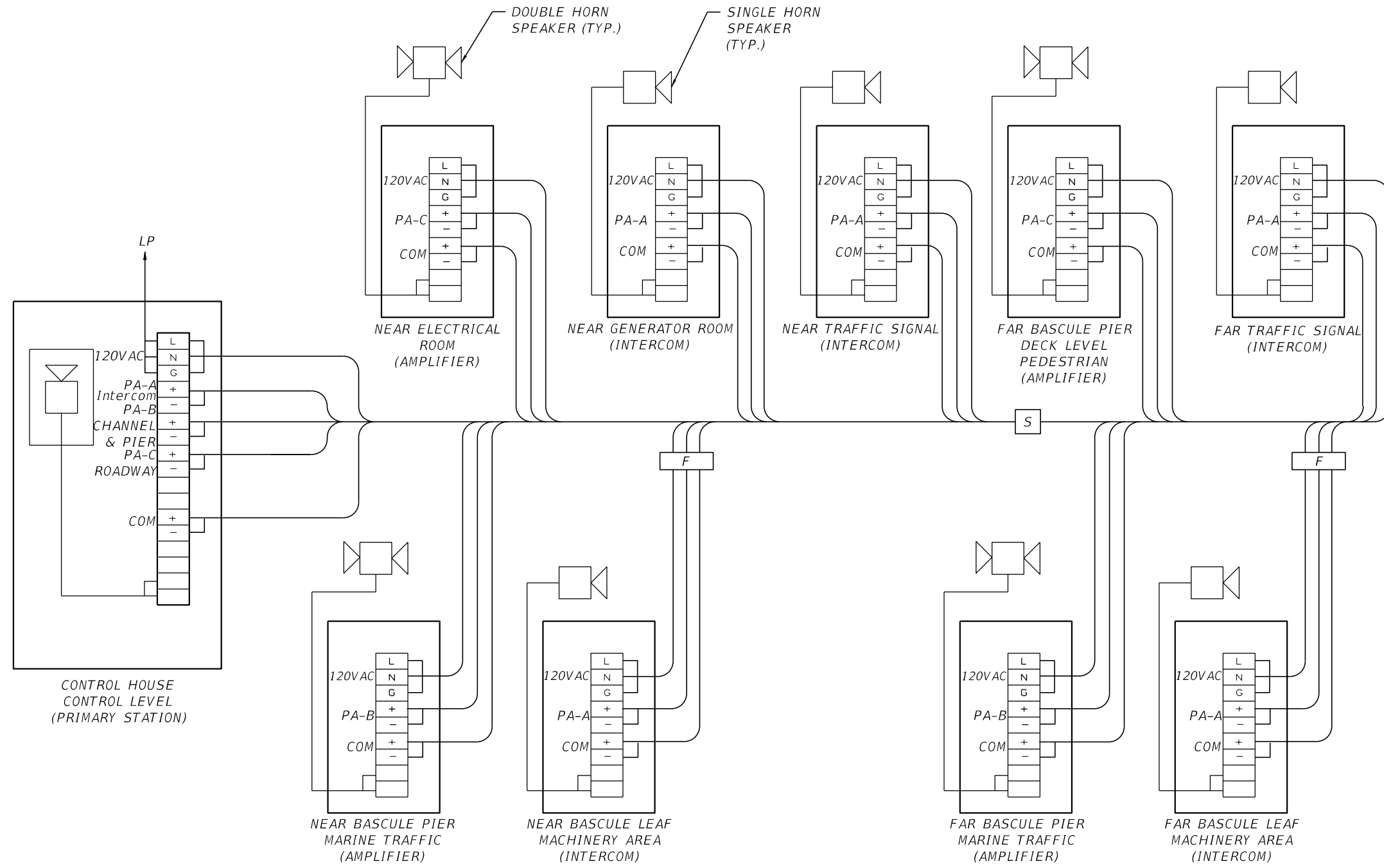
DROOP CABLE AND JUNCTION BOX DETAIL

- NOTES:
 1. REPLACE ALL LIMIT SWITCH SUPPORTS AND MOUNTING HARDWARE.
 ALL NEW SUPPORTS AND HARDWARE TO BE 316 STAINLESS STEEL.

BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24 CHECKED BY: APB 11-24 DESIGNED BY: MAL 11-24 CHECKED BY: APB 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: MISCELLANEOUS ELECTRICAL DETAILS	REF. DWG. NO. BE-16
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE	SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-72	

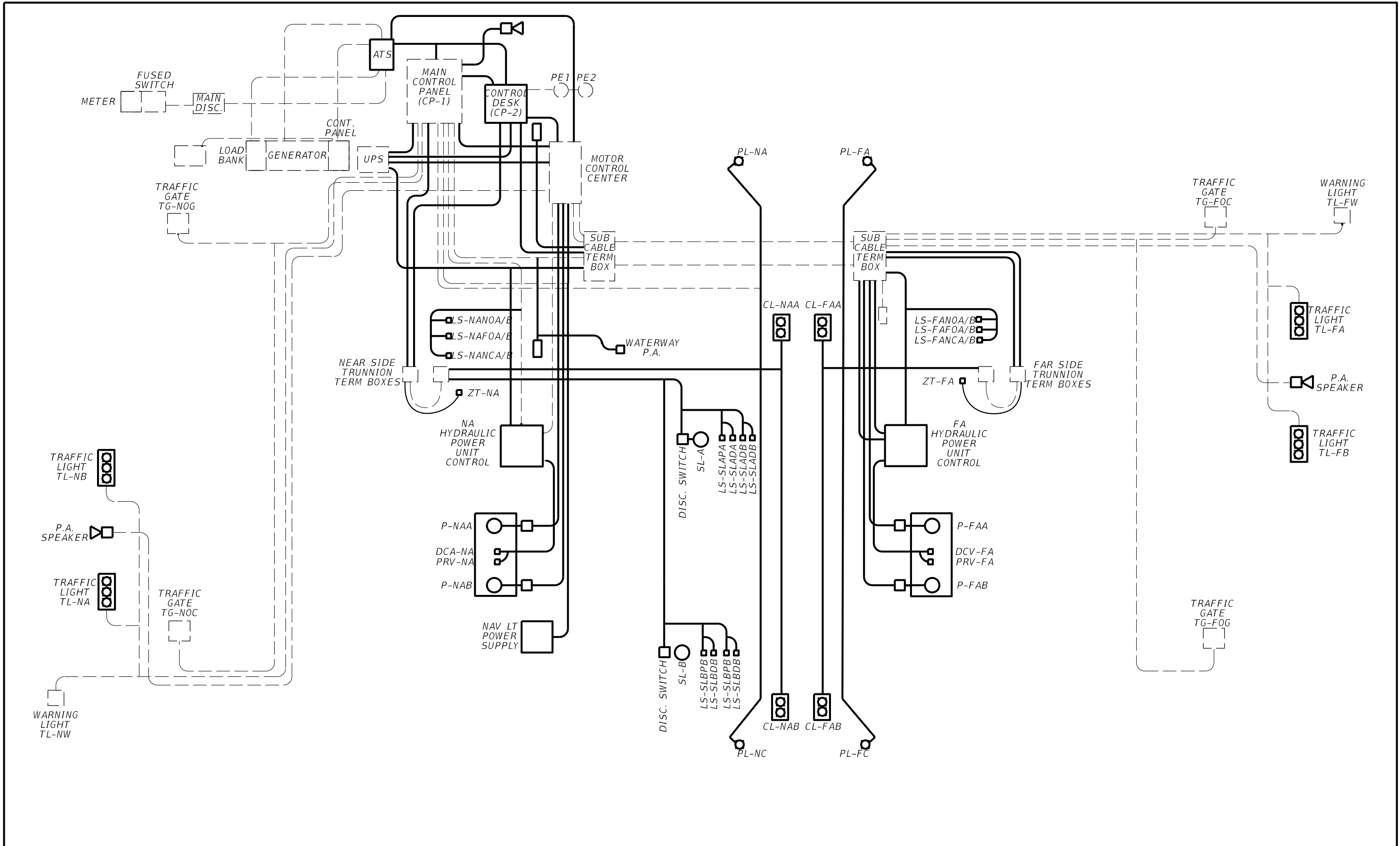
MARCO A. LARA
 License Number: 78414
 HARDESTY AND HANNOVER, LLC
 5110 EISENHOWER BLVD., SUITE 310
 TAMPA, FLORIDA 33634



BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: COMMUNICATIONS DIAGRAM		REF. DWG. NO. BE-17
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: SR 758 OVER SARASOTA BAY		SHEET NO. B1-73
					60% SUBMITTAL SUBJECT TO CHANGE	CHECKED BY: APB 11-24	SR 758	SARASOTA	451280-1-52-01			
					MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634	DESIGNED BY: MAL 11-24						
						CHECKED BY: APB 11-24						

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



BRIDGE NO. 170061

REVISIONS						DRAWN BY: PCR 11-24	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CONDUIT RISER DIAGRAM	REF. DWG. NO. BE-18
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					60% SUBMITTAL SUBJECT TO CHANGE		SR 758	SARASOTA	451280-1-52-01	SR 758 OVER SARASOTA BAY	B1-74
						MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634					

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

CONDUIT				CONDUCTORS			
NO.	SIZE	FROM	TO	NO.	SIZE	WIRE #	VOLTS
1	-	-	-	#	-		-
2	-	-	-	#	-		-
3	-	-	-	#	-		-
4	-	-	-	#	-		-
5	-	-	-	#	-		-
6	-	-	-	#	-		-
7	-	-	-	#	-		-
8	-	-	-	#	-		-
9	-	-	-	#	-		-
10	-	-	-	#	-		-
11	-	-	-	#	-		-
12	-	-	-	#	-		-
13	-	-	-	#	-		-
14	-	-	-	#	-		-
15	-	-	-	#	-		-
16	-	-	-	#	-		-
17	-	-	-	#	-		-
18	-	-	-	#	-		-
19	-	-	-	#	-		-
20	-	-	-	#	-		-
21	-	-	-	#	-		-
22	-	-	-	#	-		-
23	-	-	-	#	-		-
24	-	-	-	#	-		-
25	-	-	-	#	-		-
26	-	-	-	#	-		-
27	-	-	-	#	-		-
28	-	-	-	#	-		-
29	-	-	-	#	-		-
30	-	-	-	#	-		-
31	-	-	-	#	-		-
32	-	-	-	#	-		-
33	-	-	-	#	-		-
34	-	-	-	#	-		-
35	-	-	-	#	-		-
36	-	-	-	#	-		-
37	-	-	-	#	-		-
38	-	-	-	#	-		-
39	-	-	-	#	-		-
40	-	-	-	#	-		-
41	-	-	-	#	-		-
42	-	-	-	#	-		-
43	-	-	-	#	-		-
44	-	-	-	#	-		-
45	-	-	-	#	-		-
46	-	-	-	#	-		-
47	-	-	-	#	-		-
48	-	-	-	#	-		-
49	-	-	-	#	-		-
50	-	-	-	#	-		-

CONDUIT				CONDUCTORS			
NO.	SIZE	FROM	TO	NO.	SIZE	WIRE #	VOLTS
51	-	-	-	#	-		-
52	-	-	-	#	-		-
53	-	-	-	#	-		-
54	-	-	-	#	-		-
55	-	-	-	#	-		-
56	-	-	-	#	-		-
57	-	-	-	#	-		-
58	-	-	-	#	-		-
59	-	-	-	#	-		-
60	-	-	-	#	-		-
61	-	-	-	#	-		-
62	-	-	-	#	-		-
63	-	-	-	#	-		-
64	-	-	-	#	-		-
65	-	-	-	#	-		-
66	-	-	-	#	-		-
67	-	-	-	#	-		-
68	-	-	-	#	-		-
69	-	-	-	#	-		-
70	-	-	-	#	-		-
71	-	-	-	#	-		-
72	-	-	-	#	-		-
73	-	-	-	#	-		-
74	-	-	-	#	-		-
75	-	-	-	#	-		-
76	-	-	-	#	-		-
77	-	-	-	#	-		-
78	-	-	-	#	-		-
79	-	-	-	#	-		-
80	-	-	-	#	-		-
81	-	-	-	#	-		-
82	-	-	-	#	-		-
83	-	-	-	#	-		-
84	-	-	-	#	-		-
85	-	-	-	#	-		-
86	-	-	-	#	-		-
87	-	-	-	#	-		-
88	-	-	-	#	-		-
89	-	-	-	#	-		-
90	-	-	-	#	-		-
91	-	-	-	#	-		-
92	-	-	-	#	-		-
93	-	-	-	#	-		-
94	-	-	-	#	-		-
95	-	-	-	#	-		-
96	-	-	-	#	-		-
97	-	-	-	#	-		-
98	-	-	-	#	-		-
99	-	-	-	#	-		-
100	-	-	-	#	-		-

BRIDGE NO. 170061

<table border="1"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>60% SUBMITTAL SUBJECT TO CHANGE</td> <td></td> </tr> </tbody> </table>				REVISIONS				DATE	BY	DESCRIPTION	DATE			60% SUBMITTAL SUBJECT TO CHANGE		MARCO A. LARA License Number: 78414 HARDESTY AND HANNOVER, LLC 5110 EISENHOWER BLVD., SUITE 310 TAMPA, FLORIDA 33634			DRAWN BY: PCR 11-24 CHECKED BY: APB 11-24 DESIGNED BY: MAL 11-24 CHECKED BY: APB 11-24			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: CONDUIT AND CABLE SCHEDULE			REF. DWG. NO. BE-19
REVISIONS																												
DATE	BY	DESCRIPTION	DATE																									
		60% SUBMITTAL SUBJECT TO CHANGE																										
				ROAD NO. COUNTY FINANCIAL PROJECT ID SR 758 SARASOTA 451280-1-52-01			PROJECT NAME: SR 758 OVER SARASOTA BAY			SHEET NO. B1-75																		

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