SHEET NO.

9 - 21

24

25

28 29

22 - 23

26 - 27

W1 - W3

BX1-1 - BX1-19

CHARLOTTE COUNTY GOVERNMENT

CONTRACT PLANS

INDEX OF BRIDGE REPAIR PLANS

SHEET DESCRIPTION

PLAN AND ELEVATION

PILE JACKET DETAILS

DRAINAGE DETAILS

EXISTING BRIDGE PLANS

TEMP. TRAFFIC CONTROL PLAN

CONCRETE RESTORATION DETAILS

MISCELLANEOUS REPAIR DETAILS

EROSION TURBIDITY CONTROL PLAN

WETLAND/OTHER SURFACE WATER IMPACTS

BEGIN BRIDGE

BEGIN PROJECT

STA. 116+95.85 @ MIDWAY BLVD.

STA. 114+09.00 @ MIDWAY BLVD.

ABUTMENT ARMORING DETAILS

TYPICAL SECTIONS

ROADWAY PLAN

MIDWAY BOULEVARD BRIDGE KEY SHEET SIGNATURE SHEET BRIDGE NO. 014073 QUANTITIES GENERAL NOTES

CHARLOTTE COUNTY CONTRACT NUMBER 2021000407 MIDWAY BOULEVARD AT NORTH SPRING LAKE BRIDGE TO NORTH PORT MURDOCK END PROJECT STA. 120+21.76 @ MIDWAY BLVD.

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 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

GOVERNING STANDARD SPECIFICATIONS:

Charlotte County Public Works Standard Specifications for Construction, FY 2024-25 FDOT Standard Specifications for Roadway and Bridge Construction, Divisions II & III as directed under the Charlotte County Public Works Standard Specifications for Construction. Charlotte County Standard and Technical Specifications.

PLANS PREPARED BY:

TAMPA

SARASOTA

NAPLES

ST PETERSBURG

LOCATION OF PROJECT

https://goo.gl/maps/ Cu9EGaR8zBYtMLfN9

HDR ENGINEERING, INC. 4830 W. KENNEDY BLVD, SUITE 400 TAMPA. FLORIDA 33609-2548 PHONE: (813) 262-2706

COUNTY PROJECT MANAGER:

KELLY LAUGHTER

FISCAL YEAR	SHEET NO.
24	1

DAYTONA BEACH

PIERCE

NROSALES

Grassy Pt.

11/20/2024

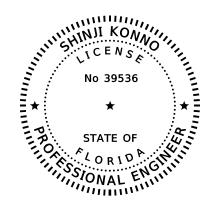
END BRIDGE

TO PUNTA GORDA

STA. 118+00.73 @ MIDWAY BLVD.

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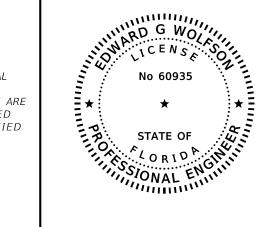
ON THE DATE ADJACENT TO THE SEAL

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SHINJI KONNO, PE
PE LICENSE NUMBER 39536
HDR ENGINEERING, INC.
4830 W. KENNEDY BLVD., SUITE 400
TAMPA, FL 33609-2548

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

STRUCTURE PLANS SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	QUANTITIES
4	GENERAL NOTES
5	PLAN AND ELEVATION
22 - 23	CONCRETE RESTORATION DETAILS
24	PILE JACKET DETAILS
25	MISCELLANEOUS REPAIR DETAILS



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ON THE DATE ADJACENT TO THE SEAL

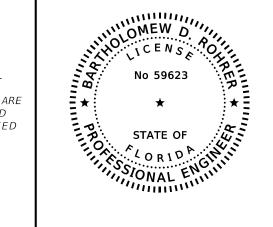
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EDWARD G WOLFSON, PE PE LICENSE NUMBER 60935 HDR ENGINEERING, INC. 315 E. ROBINSON STREET ORLANDO, FL 32801-1912

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

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SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
6 - 7	TYPICAL SECTIONS
8	ROADWAY PLAN
9 - 21	TEMP. TRAFFIC CONTROL PLAN



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ON THE DATE ADJACENT TO THE SEAL

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BARTHOLOMEW D. ROHRER, PE PE LICENSE NUMBER 59623 HDR ENGINEERING, INC. 4830 W. KENNEDY BLVD., SUITE 400 TAMPA, FL 33609-2548

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

CTURE PLANS

SHEET NO. SHEET DESCRIPTION

2 SIGNATURE SHEET

26 - 27 ABUTMENT ARMORING DETAILS

28 DRAINAGE DETAILS

29 EROSION TURBIDITY CONTROL PLAN

W1 - W3 WETLAND / SURFACE WATER IMPACTS

REVISIONS

Date By Description Date By Description

HDR Engineering, Inc. 4830 W. Kennedy Blvd., Suite 400 TAMPA, FL 33609-2548 Drawn By:
NTR
Checked by:
RT
Designed by:
CMH
Checked by:



SHEET TITLE:			<u>.</u> .					REF. DWG. NO.
			510	GNATURI	E SHEET			
PROJECT NAME:								SHEET NO.
	MIDWAY	BLVD	Α/	NORIH	SPRING	LAKE	BRIDGE	2

11/14/2024

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T5-25	PAY ITEM NUMBER	I I FM DESCRIPTION			
102-1	TS-25	AS-BUILT DRAWINGS	1	LS	
104-10-3 SEDIMENT BARRIER 322 LF 104-11	101-1	MOBILIZATION	1	LS	
104-11	102-1	MAINTENANCE OF TRAFFIC	1	LS	
110-1-1 CLEARIMG & GRUBBING 1 LS 110-4-10 REMOVAL OF EXISTING CONCRETE 66 SY 120-6 EMBANKMENT 1 LS 327-70-1 MILLING EXISTING ASPHALT PAVEMENT, VARIABLE DEPTH 1234 SY 331-2A ASPHALTIC CONCRETE TYPE S-II 135.0 TM 331-2B ASPHALTIC CONCRETE TYPE S-III 101.8 TM 339-1 MISCELLANEOUS ASPHALT PAVEMENT 14.6 TM 400-153 MON SHRINK GROUT, F&I. MISCELLANEOUS- STRUCTURES REHAB 563.0 CF 403-100 MICROSILICA FUNE MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 1 GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 1 GA 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0° 21 LF 458-1-21 BRÜGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 OCHRETE SIDEWALK, 4" THICK	104-10-3	SEDIMENT BARRIER	322	LF	
110-4-10 REMOVAL OF EXISTING CONCRETE 66 SY 120-6 EMBANKMENT 1 LS 327-70-1 MILLING EXISTING ASPHALT PAVEMENT, VARIABLE DEPTH 1234 SY 331-2A ASPHALTIC CONCRETE TYPE S-I 135.0 TM 331-2B ASPHALTIC CONCRETE TYPE S-II 101.8 TM 339-1 MISCELLANEOUS ASPHALT PAVEMENT 14.6 TN 400-153 MON SHRINK GROUT, FEI, MISCELLANEOUS-STRUCTURES REHAB 563.0 CF 403-100 MICROSILICA FUME MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB I GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURES REHAB 4 LF 488-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LIMING 16.2 TM 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-1-1 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, 2 EA 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, 2 EA 536-8-124 GUARDRAIL REMOVAL 355 LF 536-8-125 GUARDRAIL REMOVAL 355 LF 536-8-20 GUARDRAIL REMOVAL 355 LF 536-8-210 GUARDRAIL REMOVAL 355 LF 536-8-220 GUARDRAIL REMOVAL 355 LF 536-8-240 GUARDRAIL REMOVAL 355 LF 536-8-241 GUARDRAIL REMOVAL 355 LF 536-8-242 GUARDRAIL REMOVAL 355 LF 536-8-244 GUARDRAIL REMOVAL 355 LF 536-8-245 GUARDRAIL REMOVAL 355 LF 536-8-240 GUARDRAIL REMOVAL 355 LF 536-8-240 GUARDRAIL REMOVAL 355 LF 536-8-240 GUARD	104-11	FLOATING TURBIDITY BARRIER	455	LF	
120-6	110-1-1	CLEARING & GRUBBING	1	LS	
327-70-1 MILLING EXISTING ASPHALT PAVEMENT, VARIABLE DEPTH 1234 SY 331-2A ASPHALTIC CONCRETE TYPE S-1 135.0 TN 331-2B ASPHALTIC CONCRETE TYPE S-1II 101.8 TN 339-1 MISCELLAMEOUS ASPHALT PAVEMENT 14.6 TN 400-153 MON SHRINK GROUT, F61. MISCELLAMEOUS- STRUCTURES REHAB 563.0 CF 403-100 MICROSILICA FUME MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 1 GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0° 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 524-1-22 CONCRETE DITCH PAVEMENT, 4°, REINFORCED 26 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4°, REINFORCED 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6° 634 <	110-4-10	REMOVAL OF EXISTING CONCRETE	66	SY	
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331-28 ASPHALTIC CONCRETE TYPE S-III 101.8 TN 339-1 MISCELLANEOUS ASPHALT PAVEMENT 14.6 TN 400-153 NON SHRINK GROUT, F&I, MISCELLANEOUS- STRUCTURES REHAB 563.0 CF 403-100 MICROSILICA FUME MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 1 GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0° 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 63.4 SY 536-8-1-1 GUARDRAIL ROADWAY, GENERAL TL-3 407 LF 53	327-70-1	MILLING EXISTING ASPHALT PAVEMENT, VARIABLE DEPTH	1234	SY	
339-1 MISCELLANEOUS ASPHALT PAVEMENT 14.6 TM 400-153 NON SHRINK GROUT, FGI. MISCELLANEOUS- STRUCTURES REHAB 563.0 CF 403-100 MICROSILICA FUME MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 1 GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0° 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, FGI, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 536-8-123 GUARDRAIL RAMSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX	331-2A	ASPHALTIC CONCRETE TYPE S-I	135.0	TN	
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403-100 MICROSILICA FUME MORTAR SIDEWALK RESURFACING 32.9 CF 411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 1 GA 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0" 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 COMCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-74 BEDDING STONE 167.2 TN 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	339-1	MISCELLANEOUS ASPHALT PAVEMENT	14.6	TN	
411-1 EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB 411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0" 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 536-1-1 GUARDRAIL ROADWAY, GENERAL TL-3 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 536-85-20 GUARDRAIL EMD TREATMENT- TRAILING ANCHORAGE 536-85-24 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 570-1-2 PERFORMANCE TURF, SOD 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 899-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	400-153	NON SHRINK GROUT, F&I, MISCELLANEOUS- STRUCTURES REHAB	563.0	CF	
411-2 CRACKS INJECT & SEAL - STRUCTURES REHAB 4 LF 457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0" 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-74 BEDDING STONE 167.2 TN 536-8-121 GUARDRAIL ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD <td>403-100</td> <td>MICROSILICA FUME MORTAR SIDEWALK RESURFACING</td> <td>32.9</td> <td>CF</td>	403-100	MICROSILICA FUME MORTAR SIDEWALK RESURFACING	32.9	CF	
457-1-22 STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0" 21 LF 458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD 150 LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-74 BEDDING STONE 167.2 TN 536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-85-20 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-85-24 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 571-1	411-1	EPOXY MATERIAL FOR CRACK INJECTION - STRUCTURES REHAB	1	GA	
458-1-21 BRIDGE DECK EXPANSION JOINT, REHABILITATION, POURED JOINT WITH BACKER ROD LF 522-1 CONCRETE SIDEWALK, 4" THICK 49 SY 524-1-29 CONCRETE DITCH PAVEMENT, 4", REINFORCED 26 SY 527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-74 BEDDING STONE 167-2 TN 536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILLING 1636-85-20 GUARDRAIL END TREATMENT- TRAILLING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	411-2	CRACKS INJECT & SEAL - STRUCTURES REHAB	4	LF	
150	457-1-22	STANDARD INTEGRAL PILE JACKET, STRUCTURAL, 16.1 to 30.0"	21	LF	
524-1-29CONCRETE DITCH PAVEMENT, 4", REINFORCED26SY527-2DETECTABLE WARNINGS38SF530-3-4RIPRAP, RUBBLE, F&I, DITCH LINING16.2TN530-4-6ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6"634SY530-74BEDDING STONE167.2TN536-1-1GUARDRAIL- ROADWAY, GENERAL TL-3407LF536-8-122GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-32EA536-8-123GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING2EA536-73GUARDRAIL REMOVAL3355LF536-85-20GUARDRAIL END TREATMENT- TRAILING ANCHORAGE2EA536-85-24GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL2EA570-1-2PERFORMANCE TURF, SOD700SY571-1-12PLASTIC EROSION MAT, TRM, TYPE 282SY999-1PAVING MEMBRANE51SY999-2POLYMER NOSING SYSTEM65.8CF	458-1-21		150	LF	
527-2 DETECTABLE WARNINGS 38 SF 530-3-4 RIPRAP, RUBBLE, F&I, DITCH LINING 16.2 TN 530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 634 SY 530-74 BEDDING STONE 167.2 TN 536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-8-123 GUARDRAIL REMOVAL 355 LF 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	522-1	CONCRETE SIDEWALK, 4" THICK	49	SY	
530-3-4RIPRAP, RUBBLE, F&I, DITCH LINING16.2TN530-4-6ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6"634SY530-74BEDDING STONE167.2TN536-1-1GUARDRAIL- ROADWAY, GENERAL TL-3407LF536-8-122GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-32EA536-8-123GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING2EA536-85-20GUARDRAIL REMOVAL355LF536-85-20GUARDRAIL END TREATMENT- TRAILING ANCHORAGE2EA570-1-2PERFORMANCE TURF, SOD700SY571-1-12PLASTIC EROSION MAT, TRM, TYPE 282SY999-1PAVING MEMBRANE51SY999-2POLYMER NOSING SYSTEM65.8CF	524-1-29	CONCRETE DITCH PAVEMENT, 4", REINFORCED	26	SY	
530-4-6 ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6" 530-74 BEDDING STONE 167.2 TN 536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 536-8-123 GUARDRAIL REMOVAL 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 570-1-2 PERFORMANCE TURF, SOD 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM	527-2	DETECTABLE WARNINGS	38	SF	
530-74 BEDDING STONE 167.2 TN 536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-85-20 GUARDRAIL REMOVAL 355 LF 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	16.2	TN	
536-1-1 GUARDRAIL- ROADWAY, GENERAL TL-3 407 LF 536-8-122 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-73 GUARDRAIL REMOVAL 355 LF 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	530-4-6	ARTICULATING CONCRETE BLOCK REVETMENT SYSTEM, THICKNESS 6"	634	SY	
536-8-122GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, APPROACH TL-32EA536-8-123GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING2EA536-73GUARDRAIL REMOVAL355LF536-85-20GUARDRAIL END TREATMENT- TRAILING ANCHORAGE2EA536-85-24GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL2EA570-1-2PERFORMANCE TURF, SOD700SY571-1-12PLASTIC EROSION MAT, TRM, TYPE 282SY999-1PAVING MEMBRANE51SY999-2POLYMER NOSING SYSTEM65.8CF	530-74	BEDDING STONE	167.2	TN	
536-8-122 APPROACH TL-3 2 EA 536-8-123 GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-002, TRAILING 2 EA 536-73 GUARDRAIL REMOVAL 355 LF 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	536-1-1	GUARDRAIL- ROADWAY, GENERAL TL-3	407	LF	
536-8-123 TRAILING 2 EA 536-73 GUARDRAIL REMOVAL 355 LF 536-85-20 GUARDRAIL END TREATMENT- TRAILING ANCHORAGE 2 EA 536-85-24 GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL 2 EA 570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	536-8-122		2	EA	
536-85-20GUARDRAIL END TREATMENT- TRAILING ANCHORAGE2EA536-85-24GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL2EA570-1-2PERFORMANCE TURF, SOD700SY571-1-12PLASTIC EROSION MAT, TRM, TYPE 282SY999-1PAVING MEMBRANE51SY999-2POLYMER NOSING SYSTEM65.8CF	536-8-123		2	EA	
536-85-24GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL2EA570-1-2PERFORMANCE TURF, SOD700SY571-1-12PLASTIC EROSION MAT, TRM, TYPE 282SY999-1PAVING MEMBRANE51SY999-2POLYMER NOSING SYSTEM65.8CF	536-73	GUARDRAIL REMOVAL	355	LF	
570-1-2 PERFORMANCE TURF, SOD 700 SY 571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	536-85-20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	2	EA	
571-1-12 PLASTIC EROSION MAT, TRM, TYPE 2 82 SY 999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	536-85-24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	2	EA	
999-1 PAVING MEMBRANE 51 SY 999-2 POLYMER NOSING SYSTEM 65.8 CF	570-1-2	PERFORMANCE TURF, SOD	700	SY	
999-2 POLYMER NOSING SYSTEM 65.8 CF	571-1-12	PLASTIC EROSION MAT, TRM, TYPE 2	82	SY	
	999-1	PAVING MEMBRANE	51	SY	
999-3 PAINTING OF GRAFFITI 3687 SF	999-2	POLYMER NOSING SYSTEM	65.8	CF	
	999-3	PAINTING OF GRAFFITI	3687	SF	

EXPANSION JOINT REPAIR TABLE (POURED JOINT) BRIDGE NO. 014073						
LOCATION LENGTH						
JOINT	ZONE	DESCRIPTION	(FT)			
END BENT 1	FULL WIDTH	N/A	75			
END BENT 5	FULL WIDTH	N/A	75			
TOTAL POURABLE	150					

NON-SHRINK GROUT BRIDGE NO. 014073							
DIMENSIONS							
LOCATION DESCRIPTION LENGTH WIDTH DEPTH							
	(FT) (FT) (FT)						
APP. SLAB 1	UNDERMINED	5.0	56.30	1.00	281.5		
APP. SLAB 2 UNDERMINED 5.0 56.30 1.00 281.5							
NON-SHRINK GROUT TOTAL (CF)							

DIMENSIONS ARE ESTIMATED FOR QUANTITY PURPOSES.

JOINT HEADER POLYMER NOSING BRIDGE NO. 014073						
			DIMENSIONS		VOLUME	
LOCATION	DESCRIPTION	LENGTH	WIDTH	DEPTH	VOLUME	
		(IN)	(IN)	(IN)	(CF)	
END APP. SLAB 1	JOINT HEADER	800.0	5.0	6.7	15.5	
SPAN 1; END BENT 1	JOINT HEADER	800.0	5.0	6.7	15.5	
SPAN 4; END BENT 5	JOINT HEADER	800.0	5.0	7.5	17.4	
BEGIN APP. SLAB 2	JOINT HEADER	800.0	5.0	7.5	17.4	
POLYMER NOSING TOTAL (C	F)				65.8	

DIMENSIONS ARE ESTIMATED FOR QUANTITY PURPOSES.

PAINTING OF GRAFFITI BRIDGE NO. 014073				
	DIMEN	ISIONS	VOLUME	
LOCATION	LENGTH	WIDTH	VOLUME	
	(FT)	(FT)	(SF)	
END BENT 1, FRONT FACE	81.0	2.7	218.3	
INT. BENT 2, SIDE FACE	81.0	2.9	233.3	
INT. BENT 2, PILE FACE	5.0	13.5	67.5	
INT. BENT 4, SIDE FACE	81.0	2.8	228.0	
INT. BENT 4, PILE FACE	5.0	13.5	67.5	
END BENT 5, FRONT FACE	81.0	2.6	211.8	
SPAN 1, UNDERSIDE OF SUPERSTRUCTURE	70.0	19.0	1330.0	
SPAN 4, UNDERSIDE OF SUPERSTRUCTURE 70.0 19.0				
TOTAL PAINT (SF)			3687	

DIMENSIONS ARE ESTIMATED FOR QUANTITY PURPOSES.

BRIDGE NO. 014073

		REVIS	T			
Date	Ву	Description	Date	Ву	Description	Shinji Konno, P.E.
						P.E. LICENSE NUMBER 39536
						HDR Engineering, Inc.
						4830 W. Kennedy Blvd., Suite 400
						TAMPA, FL 33609-2548
				1		

Drawn By: NTR Checked by: RT Designed by: CMH Checked by: SK



SHEET TITLE:						REF. DWG. NO
			QUANT	ITIES		
PROJECT NAME:						SHEET NO.
	MIDWAY	BLVD A	T NORTH	SPRING	LAKE BRIDGE	3

GENERAL NOTES

DESIGN SPECIFICATIONS:

- FDOT STRUCTURES MANUAL DATED JANUARY 2022 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.
- 3. FDOT DESIGN MANUAL DATED JANUARY, 2022 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.

VERTICAL DATUM:

BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

DRAWINGS AND DIMENSIONS:

- DO NOT SCALE DRAWINGS FOR DIMENSIONS NOT GIVEN.
- ALL DIMENSIONS ARE IN FEET AND INCHES. ALL DIMENSIONS ARE MEASURED HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.
- DIMENSIONS, ELEVATIONS AND INTERSECTING ANGLES SHOWN ARE BASED ON INFORMATION AS DETAILED WITHIN THE ORIGINAL CONSTRUCTION PLANS OF THE EXISTING BRIDGE AND UNSIGNED AND UNSEALED SURVEY DATA. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THIS DATA BEFORE BEGINNING CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.

NOTES TO CONTRACTOR:

- OBTAIN WRITTEN APPROVAL FROM THE COUNTY PRIOR TO COMMENCING THE WORK FOR ANY SUBSTANTIAL DEVIATIONS TO PROPOSED REQUIREMENTS AS OUTLINED IN THE PLANS AND PERMIT DOCUMENTS.
- MANGROVE LOCATIONS ARE NOTED ON PLAN SHEETS. DO NOT CUT OR TRIM MANGROVES OUTSIDE LIMITS OF CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH THE PERMIT CONDITIONS AS APPROVED BY THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND THE US ARMY CORP OF ENGINEERS (USACE).
- WETLAND AND/OR SURFACE WATER IMPACTS ARE LIMITED TO THE AREAS DESCRIBED IN THE WETLAND AND SURFACE WATER IMPACTS SHEET.

UTILITIES:

Date By

- CONTACT SUNSHINE ONE CALL OF FLORIDA, INC. AS REQUIRED BY CHAPTER 556 OF THE FLORIDA STATUES.
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. LOCATE ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION OPERATIONS. IF ANY EXISTING UTILITIES CONFLICT WITH PROPOSED CONSTRUCTION METHODS, MATERIALS OR EQUIPMENT, NOTIFY THE ENGINEER. AVOID ANY DAMAGE TO EXISTING UTILITIES.

FPL-DISTRIBUTION

REVISIONS

Date

UTILITY/AGENCY OWNERS COMPANY CENTURYLINK (LUMEN) CHARLOTTE COUNTY UTILITIES CHARLOTTE COUNTY BOCC/LIGHTING

Description

CONTACTKEN LUTZ BRUCE BULLERT ANDY AMENDOLA JULIAN MONTENEGRO

Description

TELEPHONE NUMBERS (863) 452-3185 (941) 764-4509 (941) 575-3648 (941) 423-4833

Shinji Konno, P.E.

TAMPA, FI 33609-2548

P.E. LICENSE NUMBER 39536 HDR Engineering, Inc.

4830 W. Kennedy Blvd., Suite 400

SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:

NO SPECIAL EVENTS.

MARINE PROTECTED SPECIES:

- 1. FOLLOW THE U.S. FISH AND WILDLIFE SERVICE STANDARD MANATEE CONDITIONS FOR IN-WATER WORK (2011).
- 2. FOLLOW THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA), NATIONAL MARINE FISHERIES SERVICE (NMFS) SEA TURTLE AND SMALLTOOTH SAWFISH CONSTRUCTION CONDITIONS (MARCH 23, 2006).
- 3. FOLLOW THE NOAA SOUTHEAST REGIONAL OFFICE PROTECTED SPECIES CONSTRUCTION CONDITIONS (MAY 2021).

PAY ITEM NOTE:

THE COST OF LABOR AND REMOVAL ASSOCIATED WITH THE EXPANSION JOINT HEADERS IS CONSIDERED INCIDENTAL TO THE POLYMER NOSING SYSTEM. PAY ITEM 999-2.

BRIDGE NO. 014073

REF. DWG. N GENERAL NOTES SHEET N CHARLOTTE COUNTY MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE 4 FLORIDA 11/13/2024

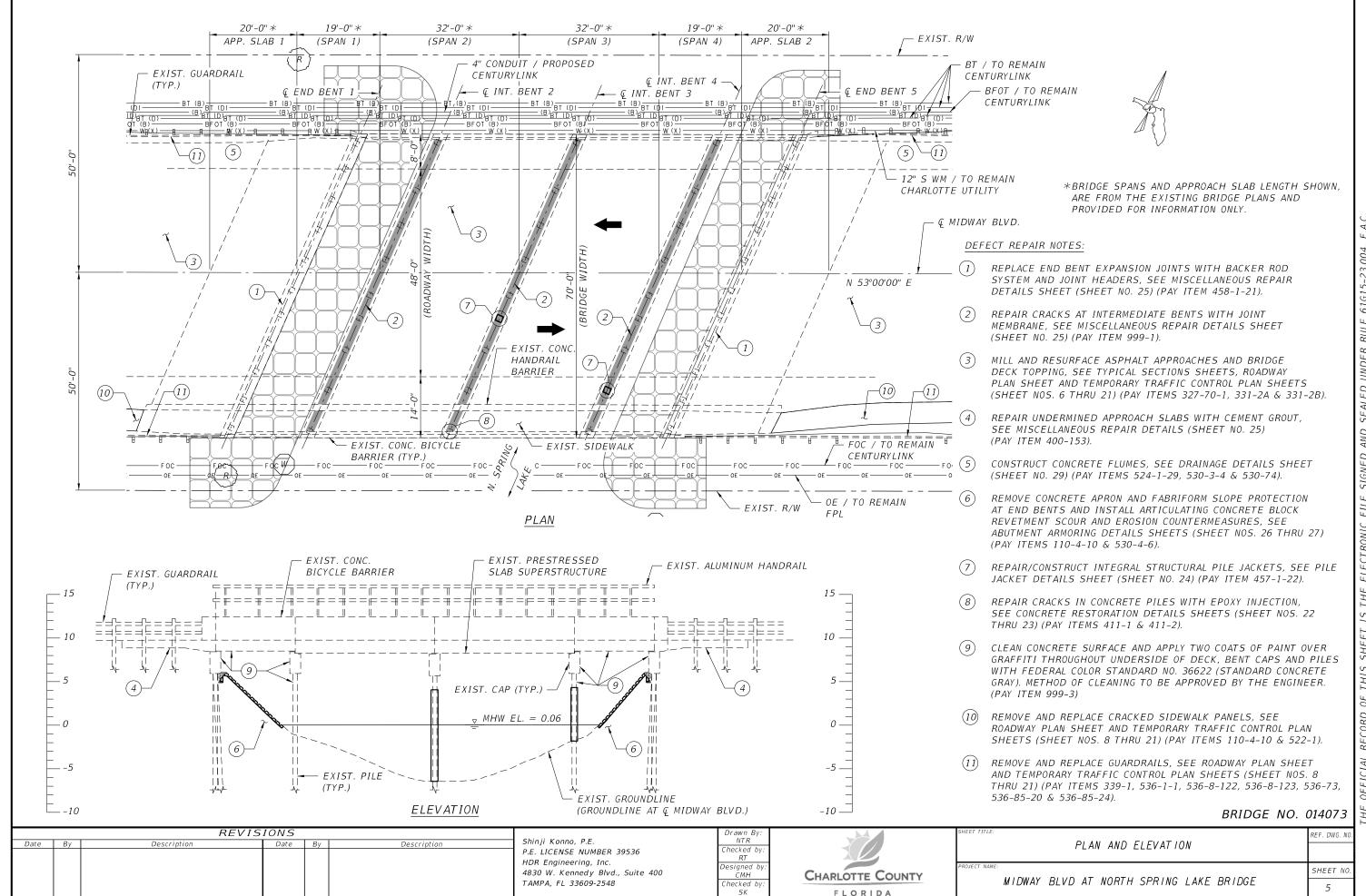
hecked by

Designed by

СМН

hecked by

3:28:11 PM c:\pwworking\east0I\d2386703\BIGeneralNotes0I.dgn

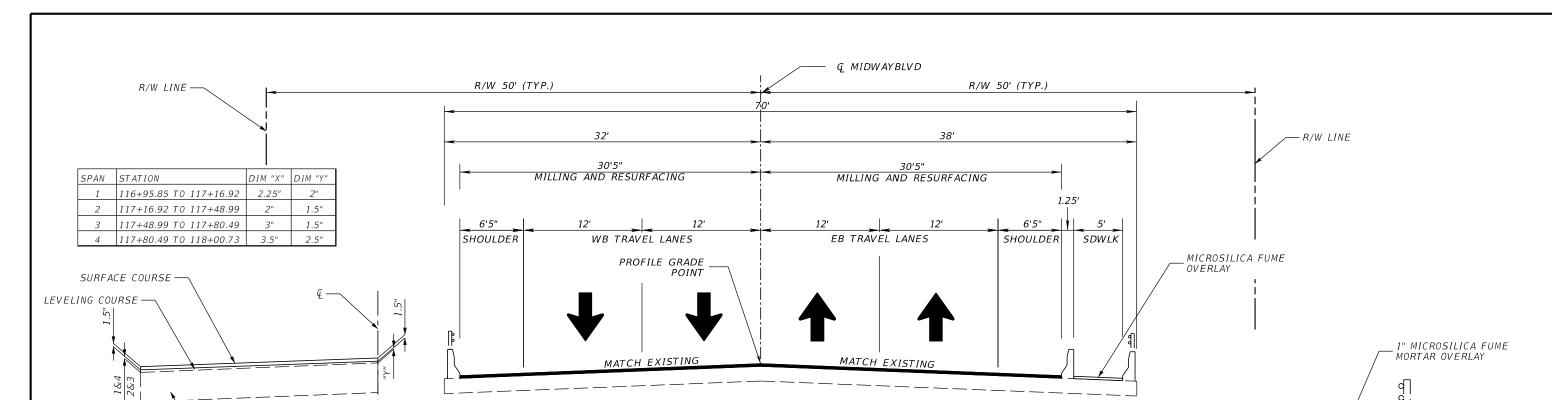


NORTH SPRING LAKE BRIDGE

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11/13/2024

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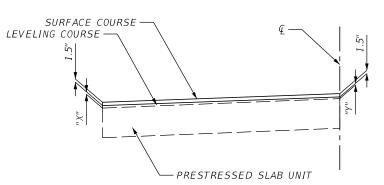


BRIDGE DECK LEVELING COURSE

PRESTRESSED SLAB UNIT

NTS

SLAB	STATION	DIM "X"	DIM "Y"
1	116+76.86 TO 116+95.85	2.5"	9/16"
2	118+00.73 TO 118+19.72	3.5"	9/16''''



APPROACH SLAB LEVELING COURSE

NTS

TRAFFIC DATA

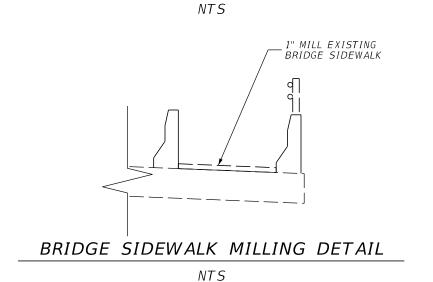
CURRENT YEAR = 2022 AADT = 4,300 DESIGN SPEED = 35 MPH TYPICAL SECTION
MIDWAY APPROACH SLAB/BRIDGE
MIDWAY BOULEVARD
STA. 116+63.54 TO STA. 118+33.04

VARIABLE MILLING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (1 $\frac{1}{2}$ ") TO (4 $\frac{1}{2}$ ")

RESURFACING

ASPHALT CONCRETE TYPE S (1 ½") TO (4 ½")



BRIDGE SIDEWALK FINISHING DETAIL

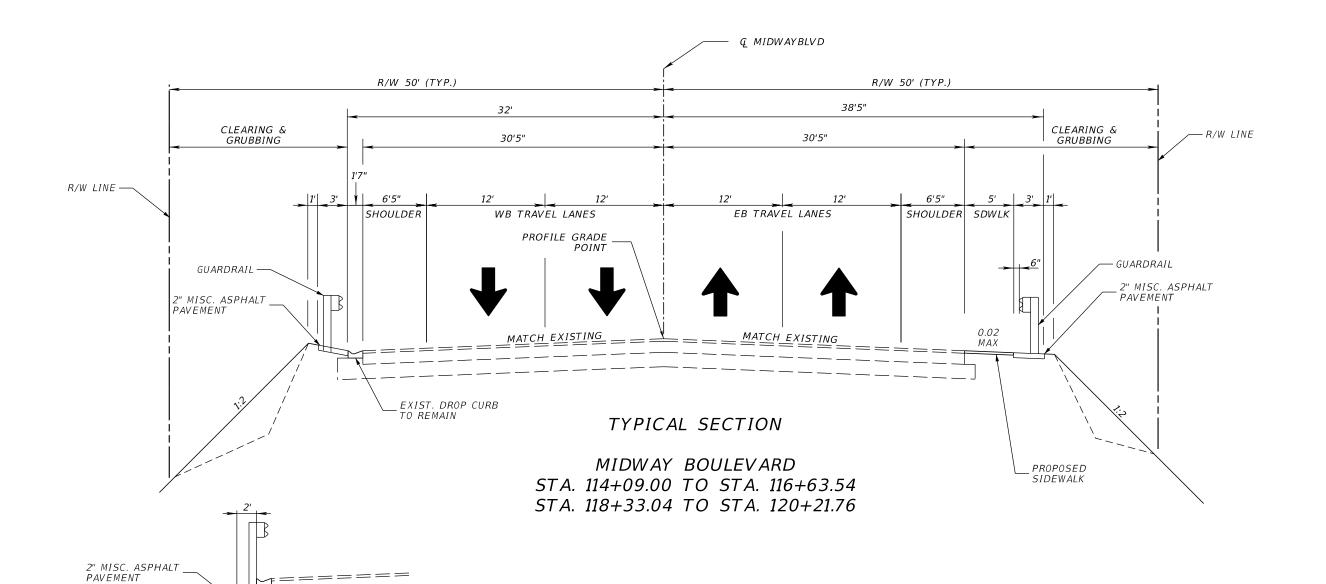
NOTE: DUE TO THE SKEW OF THE APPROACH SLAB A PORTION OF ROADWAY PAVEMENT WILL BE MILLED AND RESURAFCED

11/13/2024

3:55:49 PM

BRIDGE NO. 014073 出

							DAIDGE N	0. 01 107 5	F
	RE\	/ISIONS			Drawn By:		SHEET TITLE:	REF. DWG. NO	.VO.
Date B	y Description	Date By	Description	P.E. LICENSE NUMBER 60935	JMD Checked by: BLM		TYPICAL SECTIONS		
				HDR ENGINEERING, INC. 315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Chasked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NC	0.
		I		OKLANDO, FL 32801	Checked by:	EL O BLD A	WITCHAI DEVE AT HOMITI STIMMO EARE DIVIDUE	6	



GUARDRAIL POST BEHIND WALL

EXIST. DROP CURB TO REMAIN

-GRAVITY WALL

NTS

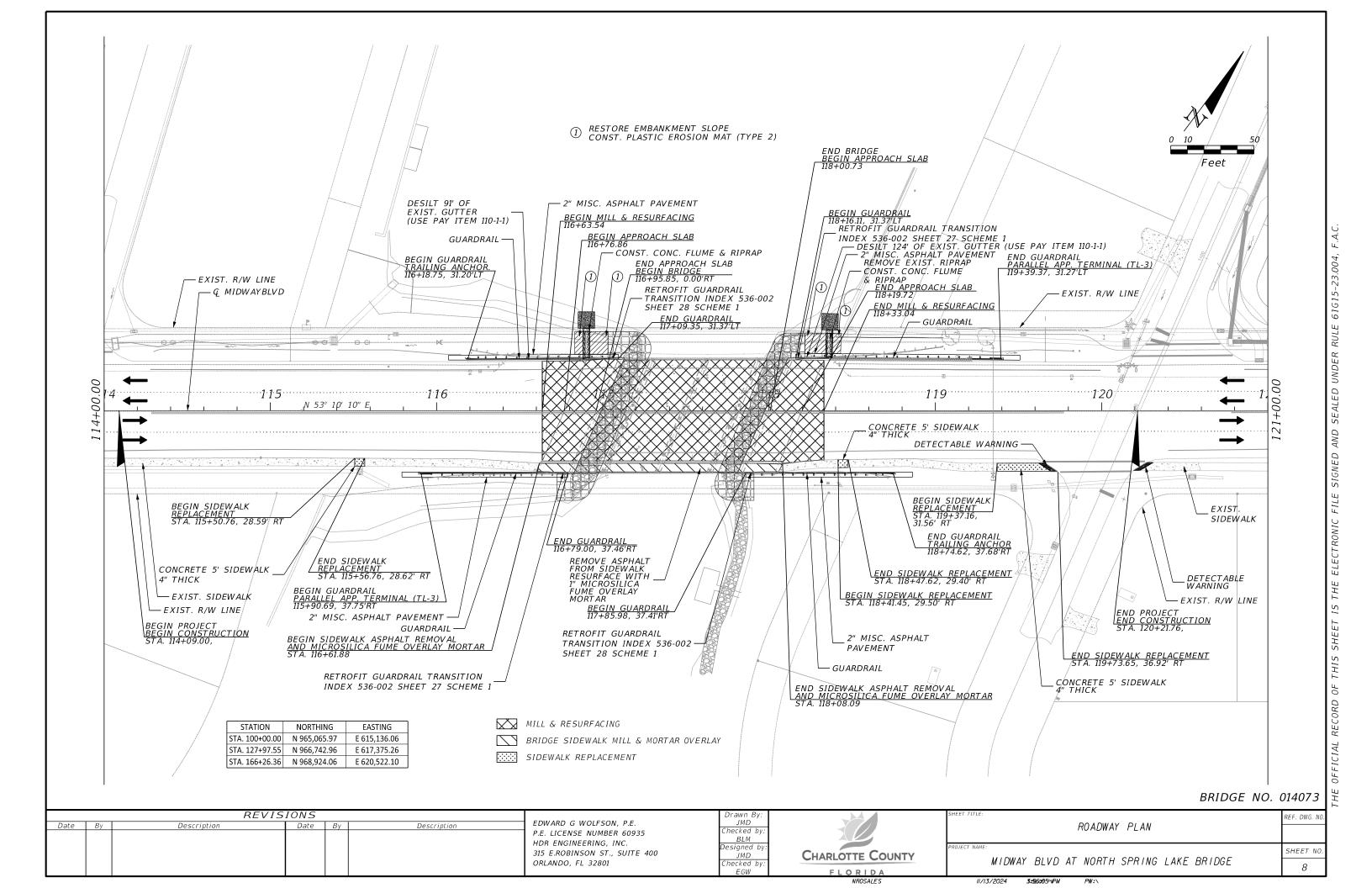
TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 4,300

DESIGN SPEED = 35 MPH

BRIDGE NO. 014073 불

	REV	ISIONS			Drawn By:		SHEET TITLE:	REF. DWG. NO.
Date By	Description	Date By	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935 HDR ENGINEERING, INC.	Checked by: BLM		TYPICAL SECTIONS	
				315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
			1		EGW	F L O R I D A NROSALES		,



THE FOLLOWING GENERAL NOTES APPLY TO THE TEMPORARY TRAFFIC CONTROL PLANS

1. THE REGULATORY SPEED DURING ALL MAINTENANCE OF TRAFFIC PHASES SHALL BE AS FOLLOWS FOR THE FOLLOWING ROADWAY UNLESS OTHERWISE NOTED IN THE TRAFFIC CONTROL PLANS:

MIDWAY BLVD. - STA 100+00.00 TO 166+26.36 35 MPH

EXISTING REGULATORY SIGNS WITHIN THE LIMITS OF THE PROJECT SHALL REMAIN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

- LOCATIONS FOR ADVANCED WARNING AND END CONSTRUCTION SIGNS, AS DEPICTED ON THE TRAFFIC CONTROL PLANS ARE
 APPROXIMATE. POSITION SIGNS APPROPRIATELY CONSIDERING THE EXISTING FIELD CONDITIONS.
- 3. FOR TEMPORARY CONSTRUCTION SIGNS LOCATED IN PAVED AREAS, PROVIDE TEMPORARY SIGN SUPPORT THAT DO NOT PENETRATE THE PAVEMENT.
- 4. ALL DRAINAGE SLOTS IN TEMPORARY BARRIER WALLS, PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES, AND CURBS SHALL BE KEPT CLEAR OF SEDIMENT AND DEBRIS FOR DRAINAGE CONTROL PURPOSES.
- 5. ALL LANES USED FOR MAINTENANCE OF TRAFFIC SHALL HAVE A PAVED SURFACE.
- 6. UNLESS OTHERWISE SHOWN IN THE TRAFFIC CONTROL PLANS, THE LOCATION OF PCMS SHALL BE DETERMINED BY THE ENGINEER.
- 7. PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICES (PLCD) SHALL BE USED AT ANY WORK ZONE NEAR A HIGHLY TRAVELED PEDESTRIAN MOVEMENT IN ORDER TO RESTRICT PEDESTRIANS FROM ENTERING THE WORK ZONE.
- 8. MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC AND LOCAL MOTORISTS.
- PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) SHALL BE PLACED AT LOCATIONS NOT TO OBSTRUCT VISIBILITY OF STREET NAME SIGNS.
- 10. STATION AND OFFSET CALLOUTS ARE BASED ON THE CENTER LINE OF CONSTRUCTION.
- 11. LANE CLOSURES WILL BE ALLOWED AS SHOWN BELOW. LANE CLOSURES OUSIDE OF THE TIME PERIODS SHOWN BELOW WILL REQUIRE THE APPROVAL OF THE CHARLOTTE COUNTY ENGINEER.

SINGLE LANE CLOSURE (ONE LANE OPEN, ONE CLOSED) 7:00 AM - 8:00 PM

MIDWAY BLVD. OPEN ROAD

- 12. LANE CLOSURES FOR WORK ALONG MIDWAY BOULEVARD SHALL BE IN ACCORDANCE WITH STANDARD INDEX 102-613, AND 102-615. STD. INDEX NO. 102-607 SHALL BE USED FOR MOBILE OPERATIONS.
- 13. AT THE DISCRETION OF THE ENGINEER, OPEN ANY TEMPORARY LANE CLOSURE CAUSING EXTENDED TRAFFIC CONGESTION (5 MINUTE DELAY) MAY BE SUSPENDED UNTIL TRAFFIC HAS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER
- 14. TRAFFIC CONDITIONS, ACCIDENTS AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT OR REMOVE LANE CLOSURE OR CHANNELIZATIONS SHOWN IN THE PLANS. MAKE THE NECESSARY ADJUSTMENTS AS DIRECTED BY THE ENGINEER WITHOUT DELAY. RESPOND TO ANY REQUESTS MADE BY THE ENGINEER FOR CORRECTION, IMPROVEMENT OR MODIFICATION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES WITHIN 30 MINUTES FROM THE TIME OF NOTIFICATION.
- 15. NOTIFY CHARLOTTE COUNTY PUBLIC WORKS, EMERGENCY SERVICES, SCHOOL BOARD AND MEDIA AS LISTED BELOW 24 HOURS PRIOR TO EACH LANE CLOSURE. IF THE CLOSURE IS TO EXTEND FOR MORE THAN ONE (1) DAY, NOTIFICATION SHALL BE MADE EACH DAY PRIOR TO THE FOLLOWING DAY'S CLOSURE.

CHARLOTTE COUNTY PUBLIC WORKS: TRACY DOHERTY (PUBLIC RELATIONS MANAGER) - (941) 575-3643,

TRACY.DOHERTY@CHARLOTTECOUNTYFL.GOV

CHARLOTTE COUNTY SHERIFF: (941) 639-2101

CHARLOTTE COUNTY FIRE/EMS: (941) 833-5600

CHARLOTTE COUNTY FIRE HEADQUARTERS: (941) 833-5600

CHARLOTTE COUNTY SCHOOL BOARD TRANSPORTATION DIVISION: (941) 575-5432

MEDIA (NOTIFY APPLICABLE ONE(S)):

CHARLOTTE SUN HERALD - (941) 206-1000

CHARLOTTE HERALD TRIBUNE NEWSPAPER - (941) 475-5475

ENGLEWOOD SUN HERALD TRIBUNE NEWSPAPER - (941) 681-3000

SARASOTA HERAL TRIBUNE NEWSPAPER - (941) 953-7755

VENICE GONDOLIER NEWSPAPER - (941) 207-1000

I HEART MEDIA PORT CHARLOTTE, PUNTA GORDA, SARASOTA - (941) 206-1188

KIX COUNTRY 92.9 WIKX RADIO STATION-PUNTA GORDA - (941) 206-1188 98.9 MY FM-PORT CHARLOTTE, PUNTA GORDA - (941) 206-1188 SEAVIEW 104.9 RADIO STATION-PUNTA GORDA - (941) 206-1188

- 16. TEMPORARY RETROREFLECTIVE RAISED PAVEMENT MARKERS SHALL BE INSTALLED THROUGHOUT ALL TRAFFIC CONTROL PHASES AND SPACED AS SPECIFIED IN STANDARD INDEX NO. 102-600. DO NOT USE LOW PROFILE REFLECTIVE PAVEMENT MARKERS.
- 17. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED THROUGHOUT THE PROJECT LIMITS IN ACCORDANCE WITH INDEX 102-660.
- 18. ENSURE PEDESTRIAN AND VEHICULAR TRAFFIC SURFACES ARE FREE OF LOOSE DEBRIS PRIOR TO EACH PHASE.
- 19. CONTROL TRAFFIC IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FDOT DESIGN STANDARDS (INDEX 102-600 SERIES) (2021-22), THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2021-22), THE PROJECT SPECIAL PROVISIONS AND TECHNICAL SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (2009, 2012 REV.).
- 20. PLACE PCMS AT EACH APPROACH END OF PROJECT AS FOLLOWS:

MINIMUM 14 DAYS PRIOR TO WORK START:

MESSAGE 1: MESSAGE 2:

ROAD MONTH WORK DAY BEGINS YEAR

DURING MILLING AND RESURFACING/STRIPING OPERATIONS:

NIGHTLY MM/DD/YY
LANE TO
CLOSURES MM/DD/YY

DURING LONG TERM LANE CLOSURE:

LEFT MERGE LANE RIGHT

CLOSED

21. ROLLERS ARE TO BE USED IN STATIC MODE ONLY DURING PAVING OPERATIONS TO AVOID DISTURBANCE OF RESIDENTIAL PROPERTIES.

SIGNING AND PAVEMENT MARKINGS

1. ARROWS ON THE TCP DENOTE THE DIRECTION OF TRAFFIC AND DO NOT REFLECT PAVEMENT MARKINGS UNLESS SPECIFICALLY NOTED.

DROP-OFFS

- 1. FOR DROP OFFS, ATTENTION IS DIRECTED TO DESIGN STANDARD INDEX 102 SERIES. USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.
- 2. ESTABLISH A WORK SCHEDULE TO ENSURE ALL DROP-OFF CONDITIONS AT THE END OF THE WORK PERIOD ARE SHIELDED OR ARE IN CONFORMANCE WITH THE DESIGN STANDARD INDEX 102-600 SERIES AT ALL TIMES.

PEDESTRIANS, BICYCLES, WHEELCHAIRS, BUS STOP ACCESS

- 1. AT THE END OF EACH WORK PERIOD OR WHENEVER THE WORK ZONE BECOMES INACTIVE, BACKFILL FLUSH OR PROTECT ANY DROP OFF GREATER THAN 3-INCHES ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL.
- 2. EXISTING PEDESTRIAN AND BICYCLE ACCESS WITHIN THE PROJECT MUST BE MAINTAINED, AT THE MINIMUM, ON ONE SIDE OF THE STREET DURING CONSTRUCTION UNLESS APPROVED BY THE ENGINEER.
- 3. PROVIDE CONNECTIVITY BETWEEN CONSTRUCTED AND EXISTING PEDESTRIAN FACILITIES.

TTCP GENERAL NOTES BRIDGE NO. 014073

REVISIONS

Date By Description Date By Description

Date By Description

Date By Description

P.E. LICENSE NUMBER 60935

HDR ENGINEERING, INC.
315 E.ROBINSON ST., SUITE 400

ORLANDO, FL 32801

Drawn By:
JMD
Checked by
BLM
Designed by
JMD
Checked by



SHEET TITLE:						REF. DV
	/ E	EMPORARY	I RAFF I	C CONTI	ROL PLAN	
PROJECT NAME:		55 .=				SHEE
	MIDWAY	BLVD AT	NORTH	SPRING	LAKE BRIDGE	Ç

11/13/2024

THE PURPOSE OF THIS PHASE IS TO MILL APPROACH SLAB AND BRIDGE DECK AND CONSTRUCT THE TEMPORARY SIDEWALK.

PHASE 1 STEP 1:

- 1. PLACE ADVANCED WARNING SIGNAGE AND PCMS AND DEVICES ACCORDING TO STANDARD INDEX 102-613 AND TRAFFIC CONTROL PLANS
- 2. CONSTRUCT THE TEMPORARY SIDEWALK UTILIZING STANDARD PLANS INDEX 102-660 IN CONJUNCTION WITH THE TRAFFIC CONTROL PLANS.
- 3. INSTALL TEMPORARY STRIPING, DEVICES AND TEMPORARY BARRIER WALL. OBLITERATE EXISTING STRIPING UTILIZING METHODS APPROVED BY THE COUNTY.
- 4. CONSTRUCT PROPOSED GUARDRAIL ON WESTBOUND ROADWAY PER ROADWAY PLANS.

PHASE 1 STEP 2:

- 1. SHIFT PED TRAFFIC TO PED DETOUR UTILIZING STANDARD PLANS INDEX 102-660 IN CONJUNCTION WITH THE TRAFFIC CONTROL PLANS.
- 2. CONSTRUCT THE PROPOSED SOUTHSIDE SIDEWALK IMPROVEMENTS PER ROADWAY PLANS.
- 3. CONSTRUCT PROPOSED GUARDRAIL ON EASTBOUND ROADWAY PER ROADWAY PLANS.

PHASE 1 STEP 3:

- 1. REMOVE PEDESTRIAN DETOUR SIGNAGE AND TEMPORARY BARRIER WALL.
- 2. REMOVE TEMPORARY SIDEWALK AND REPLACE.

PHASE 2:

THE PURPOSE OF THIS PHASE IS TO MILL THE WESTBOUND TRAVEL LANES AND SHOULDER, COMPLETE JOINT REPAIRS AND RESURFACE USING LONG TERM LANE CLOSURES.

- 1. PLACE TEMP STRIPING, DEVICES AND SIGNAGE IN ACCORDANCE WITH INDEX 102-620 TO REDUCE TO ONE LANE IN EACH DIRECTION ON THE EASTBOUND TRAVEL LANES AS SHOWN IN THE TYPICAL SECTION. OBLITERATE CONFLICTING PAVEMENT MARKINGS UTILIZING METHODS APPROVED BY THE COUNTY. ENSURE ACCESS PROVIDED TO SIDE STREETS AND DRIVEWAYS AT ALL TIMES.
- 2. MILL TO EXPOSE THE EXISTING BRIDGE DECK AND CONCRETE APPROACH SLAB. EXERCISE CAUTION NOT TO OVER MILL INTO THE EXPOSED CONCRETE SURFACE.
- 3. CONSTRUCT THE JOINT REPAIRS AS SHOWN IN THE PLANS.
- 4. RESURFACE THE MILLED AREA THROUGH FINAL SURFACE

PHASE 3

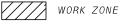
THE PURPOSE OF THIS PHASE IS TO MILL THE EASTBOUND LANES AND SHOULDER, COMPLETE JOINT REPAIRS AND RESURFACE USING LONG TERM LANE CLOSURES AND PLACE FINAL STRIPING.

- 1. PLACE TEMP STRIPING, DEVICES AND SIGNAGE IN ACCORDANCE WITH INDEX 102-620 TO REDUCE TO ONE LANE EACH DIRECTION ON THE WESTBOUND TRAVEL LANES AS SHOWN IN THE TYPICAL SECTION. OBLITERATE CONFLICTING PAVEMENT MARKINGS UTILIZING METHODS APPROVED BY THE COUNTY. ENSURE ACCESS PROVIDED TO SIDE STREETS AND DRIVEWAYS AT ALL TIMES
- 2. MILL TO EXPOSE THE EXISTING BRIDGE DECK AND CONCRETE APPROACH SLAB. EXERCISE CAUTION NOT TO OVER MILL INTO THE EXPOSED CONCRETE SURFACE.
- 3. CONSTRUCT JOINT REPAIRS AS SHOWN IN THE PLANS.
- 4. RESURFACE THE MILLED AREA THROUGH FINAL SURFACE.
- 5. PLACE FINAL STRIPING ON WESTBOUND LANES.
- 6. SHIFT WESTBOUND TRAFFIC TO FINAL WESTBOUND LANES.
- 7. UTILIZE INDEX 102-620 TO PLACE FINAL STRIPING ON EASTBOUND LANES. OBLITERATE TEMP PAVEMENT MARKINGS UTILIZING METHODS APPROVED BY THE COUNTY.

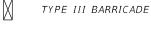
LEGEND FOR TRAFFIC CONTROL PLANS

PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE





TRAFFIC DIRECTION



PORTABLE CHANGEABLE
(VARIABLE) MESSAGE SIGN

PEDESTRIAN PATH

cc CRASH CUSHION

•

WORK ZONE SIGN

TEMP. BARRIER WALL



PREVIOUSLY CONSTRUCTED



TEMP. SIDEWALK



TEMP SIDEWALK PREVIOUSLY CONSTRUCTED



ADVANCED WARNING PANEL ARROW

LEGEND FOR TRAFFIC CONTROL TYPICAL SECTIONS

CHANNELIZING DEVICE (CONE OR DRUM)



TEMPORARY TYPE K BARRIER WALL



TEMPORARY LANE SEPARATOR

TTCP PHASING NOTES

11/13/2024

3:56:16 PM

BRIDGE NO. 014073 | 岩

REVISIONS

Date By Description Date By Description

Date By Description

Date By Description

P.E. LICENSE NUMBER 60935

HDR ENGINEERING, INC.
315 E.ROBINSON ST., SUITE 400

ORLANDO, FL 32801

Drawn By: JMD Checked by BLM Designed by JMD Checked by



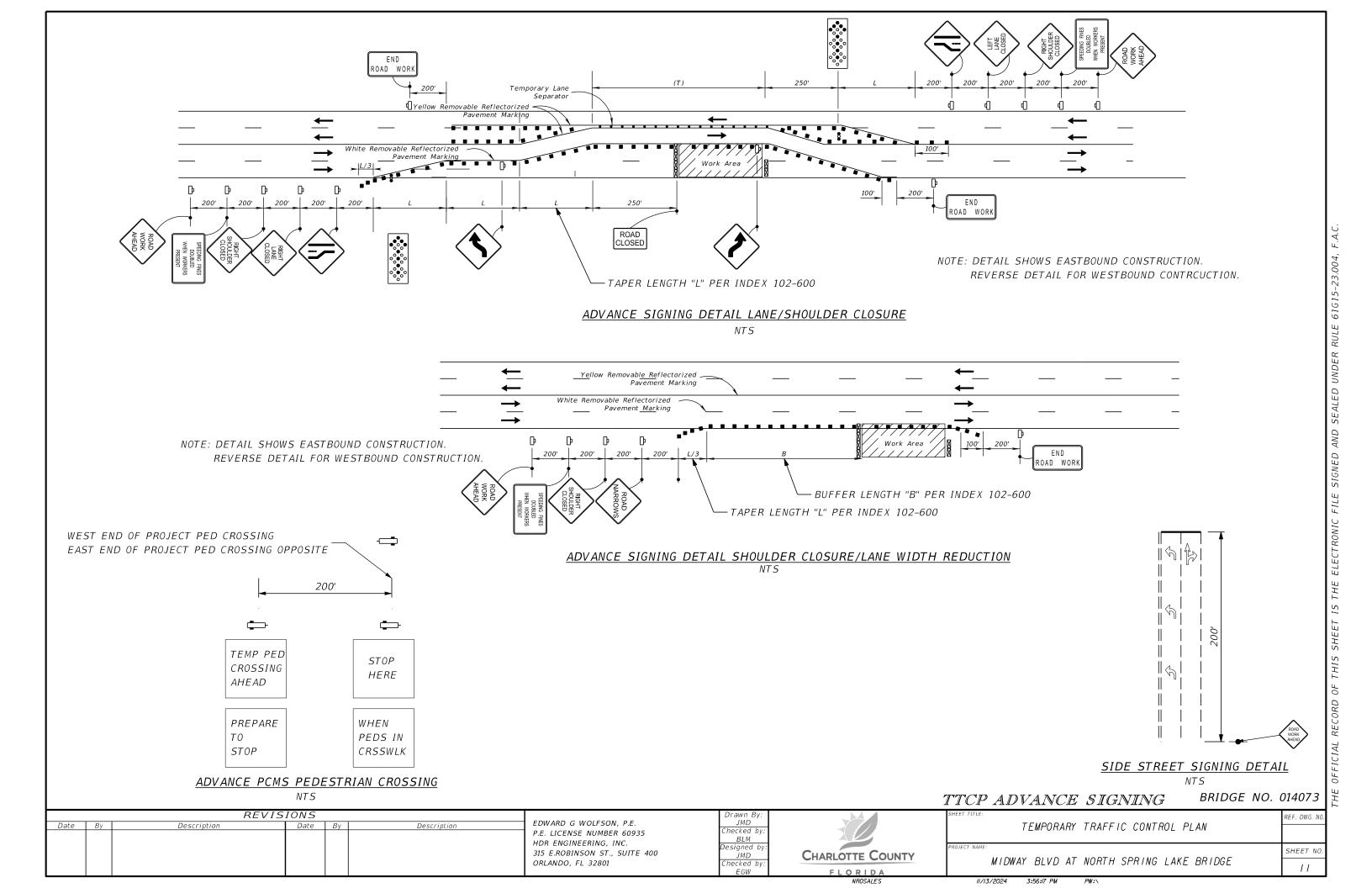
SHEET TITLE:

TEMPORARY TRAFFIC CONTROL PLAN

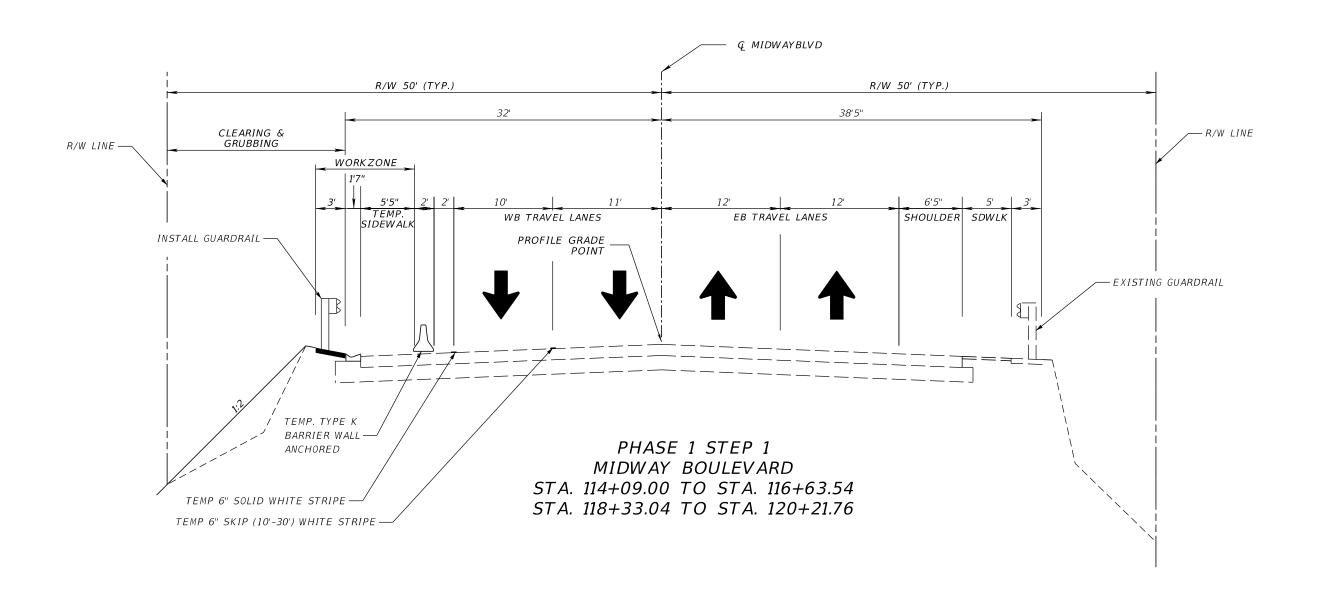
PROJECT NAME:

MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE

10



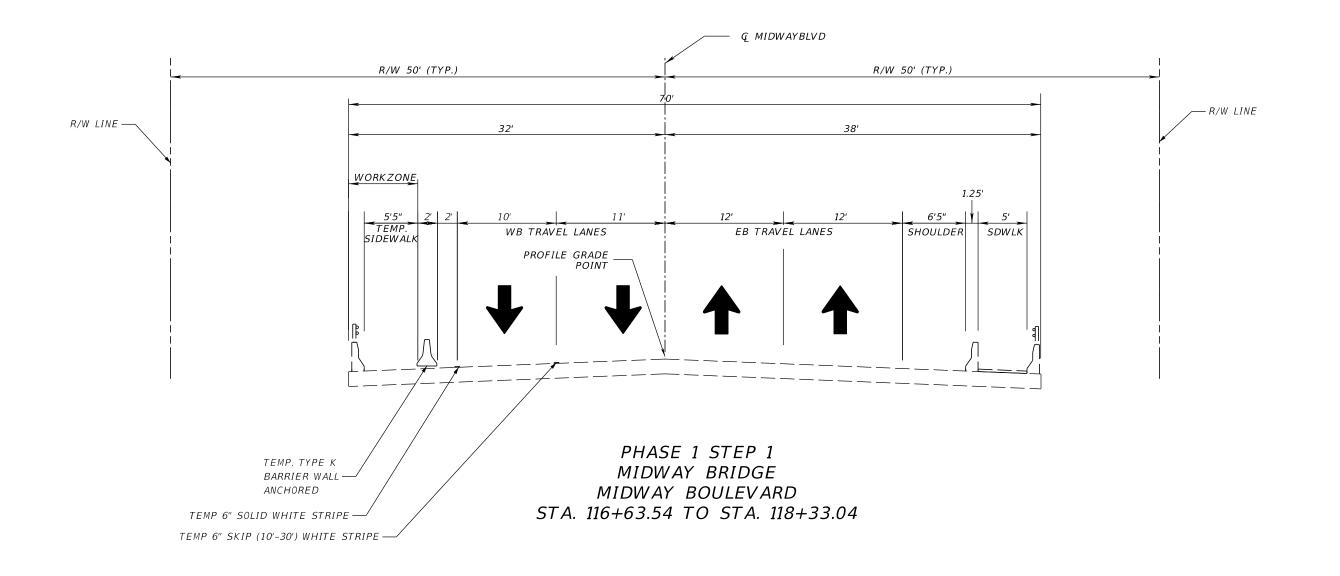




BRIDGE NO. 014073 岩

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Date	Ву	Description	Date	Ву	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935	Checked by: BLM		TEMPO	ORARY TRAFFIC CONTROL PLAN	
						HDR ENGINEERING, INC. 315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BL	VD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
	1						EGW	NROSALES	11/13/2024 3:56:21	PM PW:\	

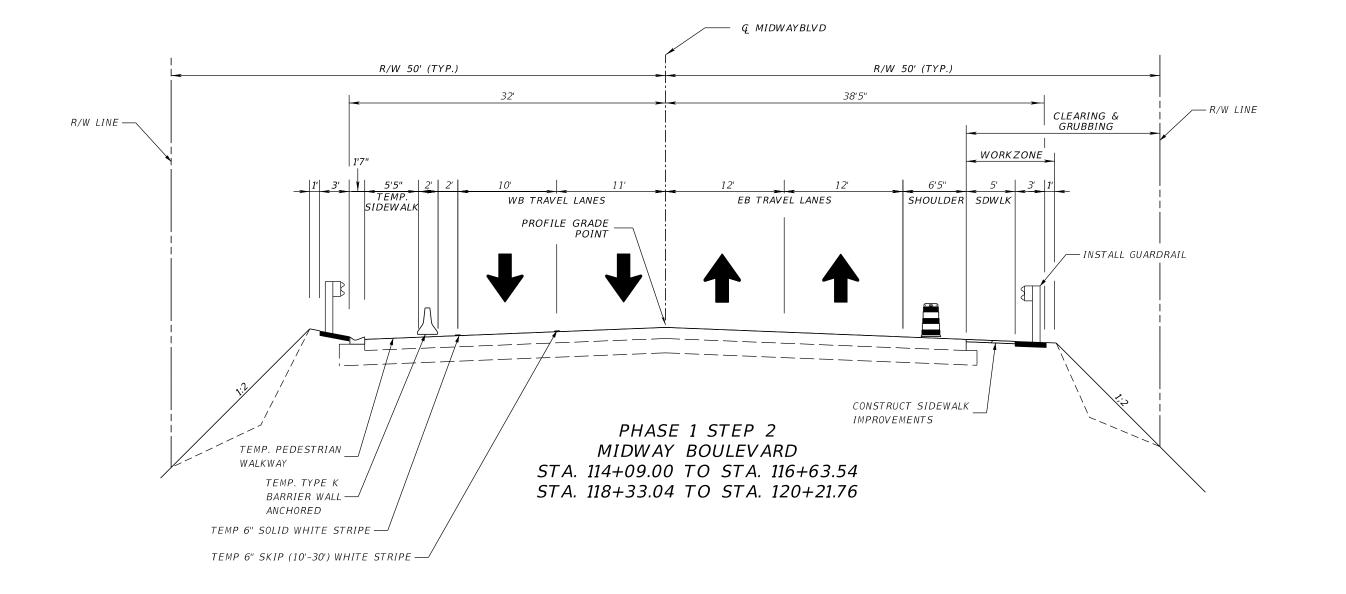




BRIDGE NO. 014073 岩

		REVIS	IONS			Drawn By:		SHEET TITLE:	REF. DWG. NO.
Date	Ву	Description	Date B	y Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935	Checked by: BLM		TEMPORARY TRAFFIC CONTROL PLAN	
					HDR ENGINEERING, INC. 315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
						200	NROSALES	11/13/2024 3:56:21 PM PW:\	•

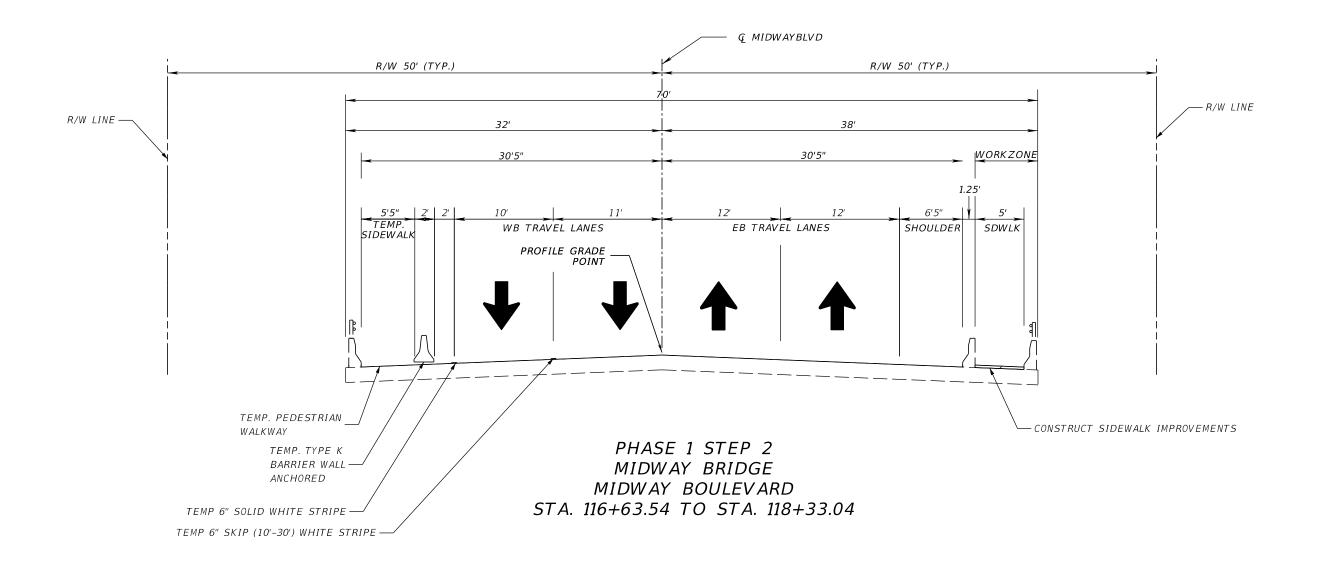




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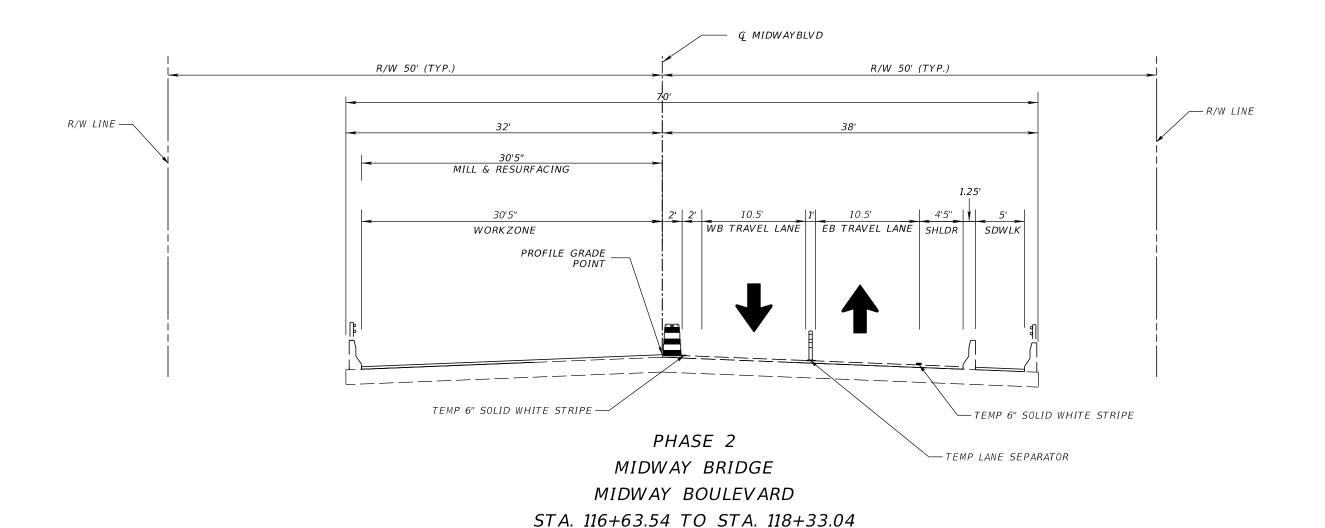
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Date	Ву	Description	Date	Ву	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935	Checked by: BLM		TEMPORARY TRAFFIC CONTROL PLAN	
						HDR ENGINEERING, INC. 315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
							EGW	F L O R I D A NROSALES		17





BRIDGE NO. 014073 발

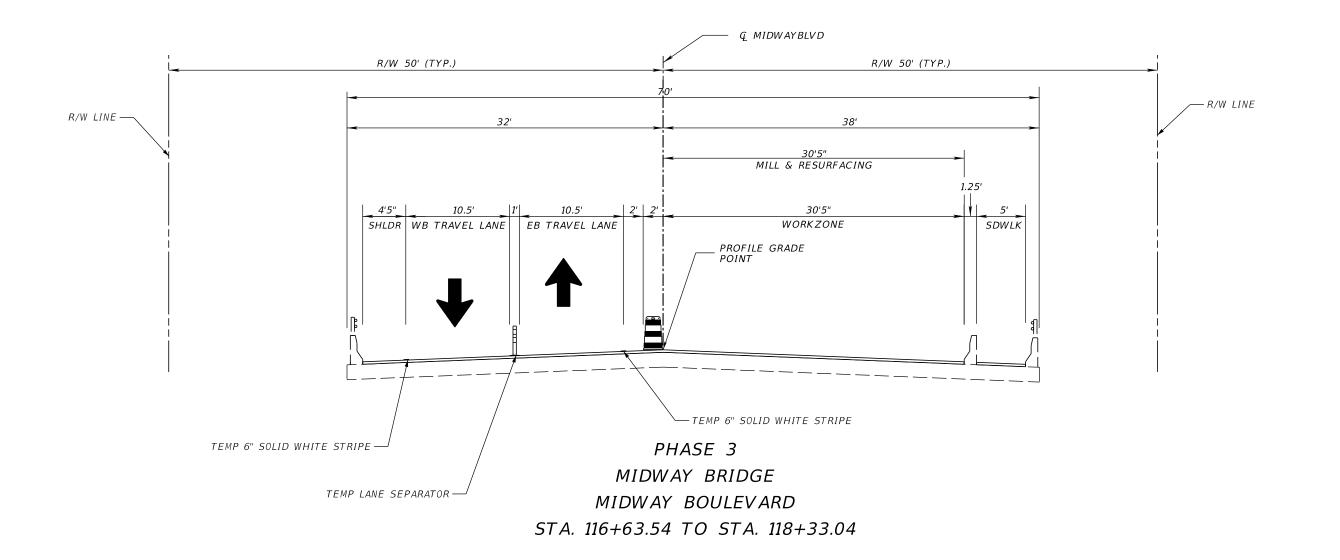
	REVISION	V <i>S</i>			Drawn By:		SHEET TITLE:	REF. DWG. NO.
Date By	Description D	ate By	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935 HDR ENGINEERING, INC.	Checked by: BLM		TEMPORARY TRAFFIC CONTROL PLAN	
				315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by:	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
					EGW	F L O R I D A NROSALES		73



BRIDGE NO. 014073 발

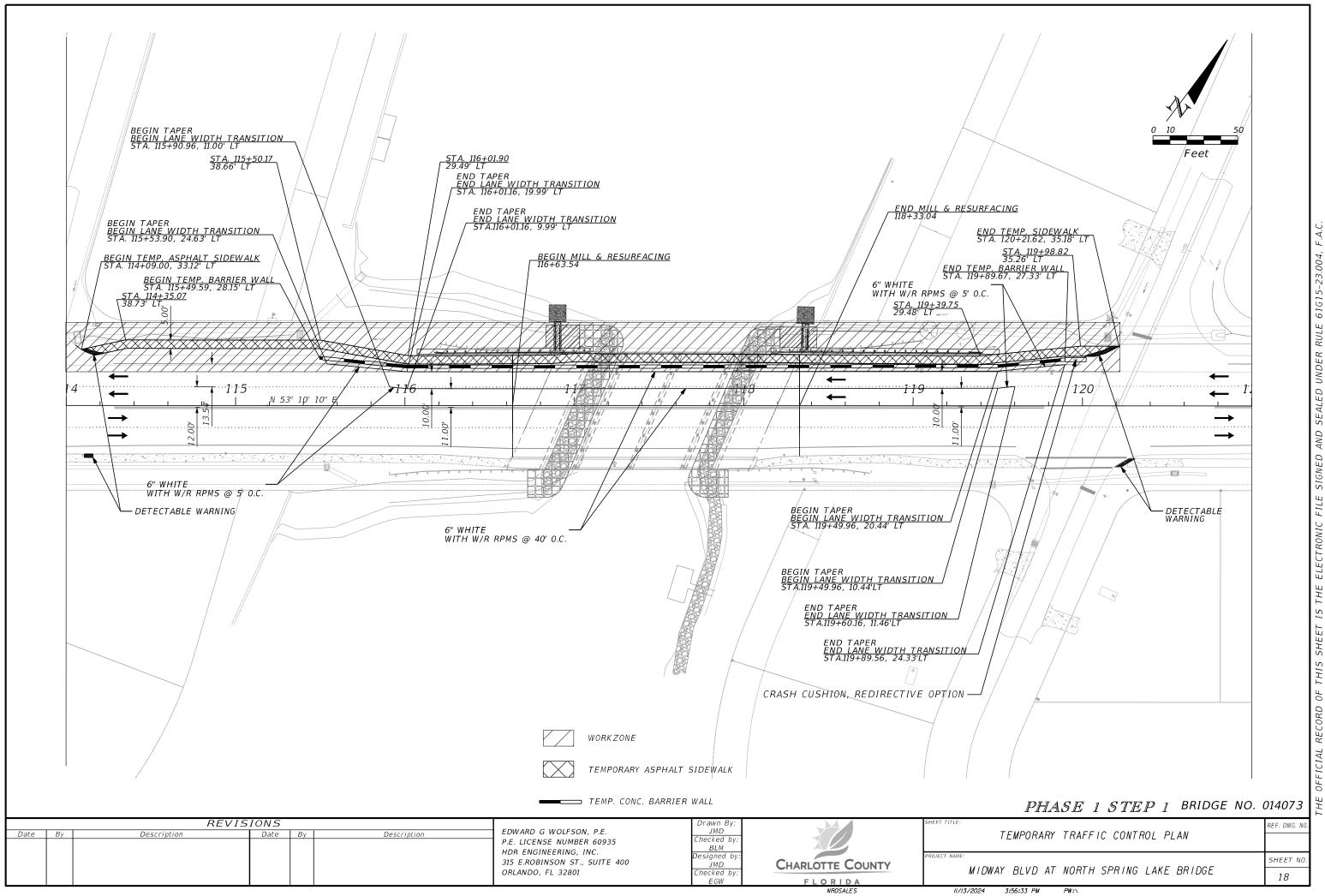
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Date	By	Description	Date By	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935	JMD Checked by: BLM		TEMPORARY TRAFFIC CONTROL PLAN	
					HDR ENGINEERING, INC. 315 E.ROBINSON ST., SUITE 400 ORLANDO, FL 32801	Designed by: JMD Checked by: EGW	CHARLOTTE COUNTY	PROJECT NAME: MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
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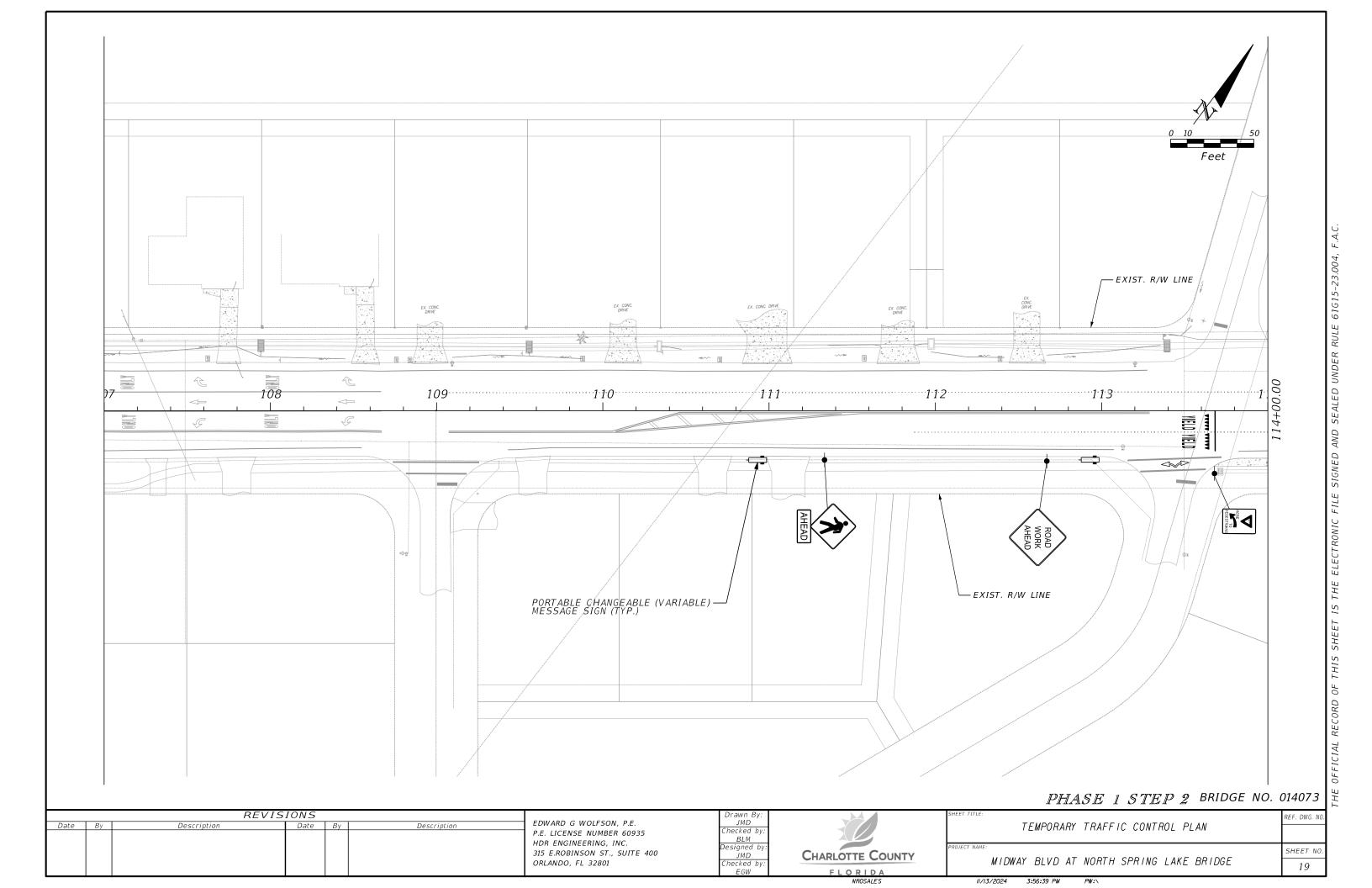


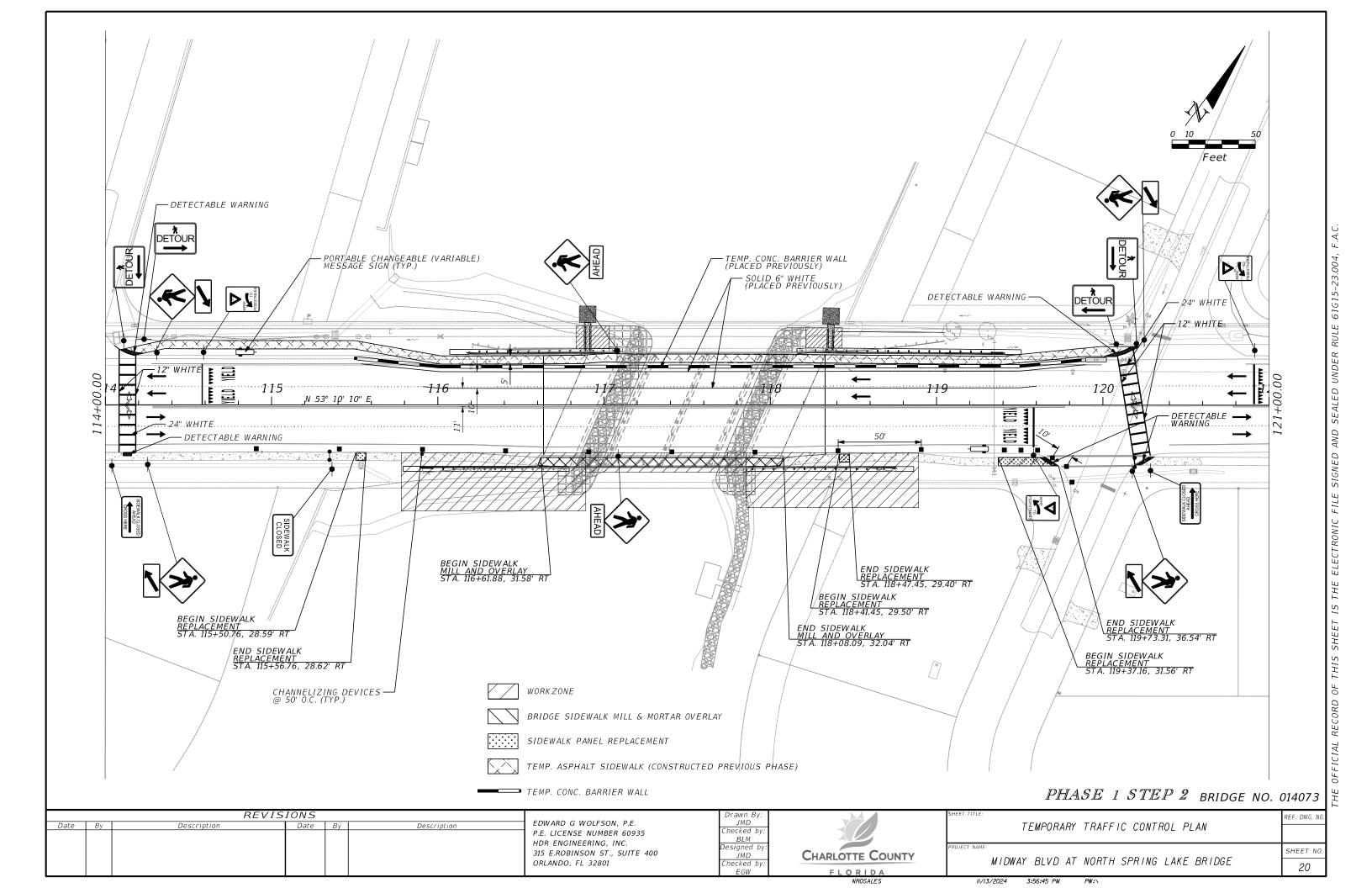


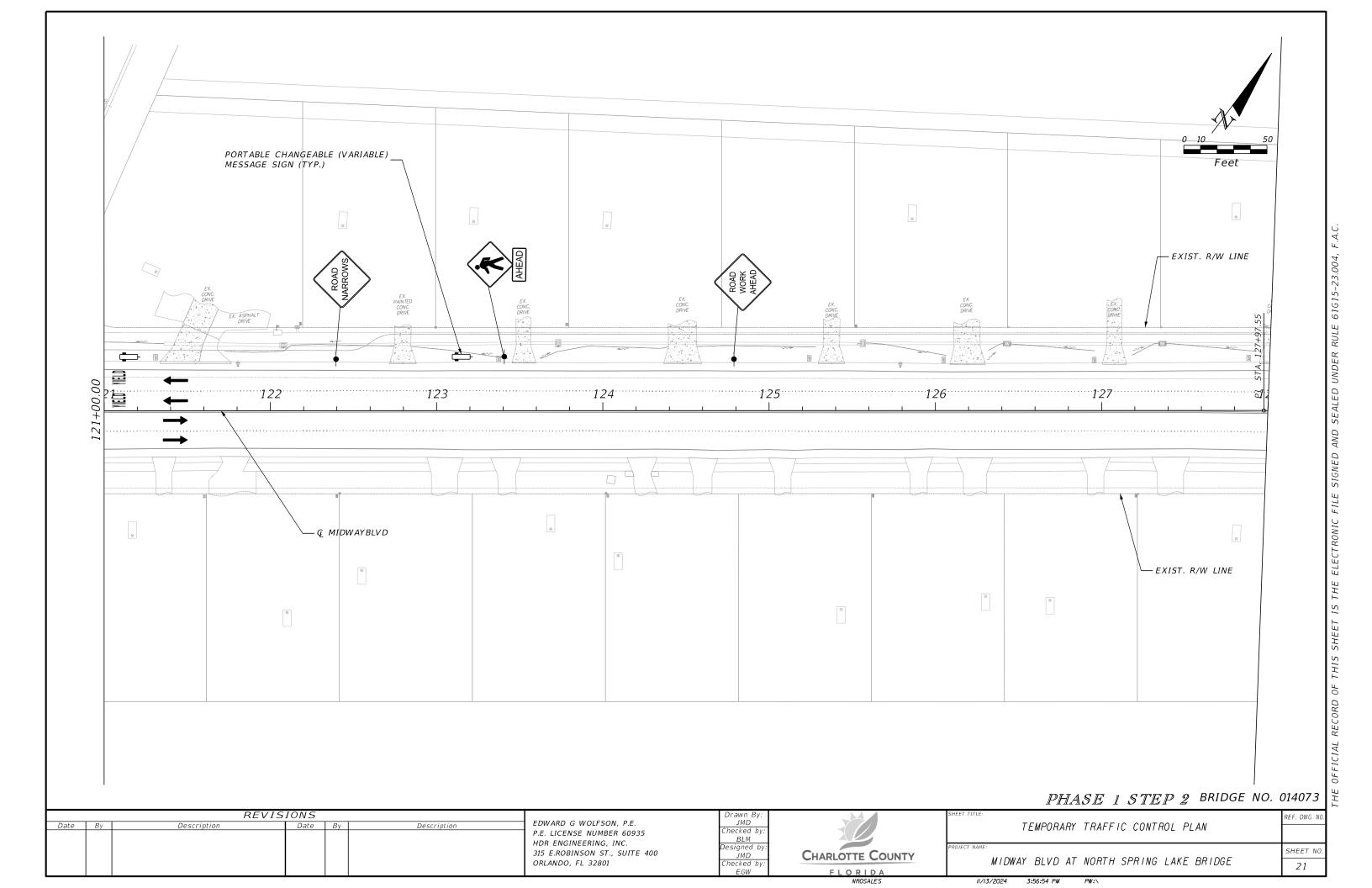
BRIDGE NO. 014073 | 共

	Date	REVIS By Description	IONS Date By	Description	EDWARD G WOLFSON, P.E. P.E. LICENSE NUMBER 60935	Drawn By: JMD Checked by: BLM		TEMPORARY TRAFFIC CONTROL PLAN	REF. DWG. NO
ORLANDO, FL 32801 Checked by: MIDWAI BLVD AT NORTH SERTING LAKE BRIDGE					•		CHARLOTTE COUNTY		SHEET NO.
					ORLANDO, FL 32801	Checked by: EGW		MIDWAY BLVD AI NORTH SPRING LAKE BRIDGE	17









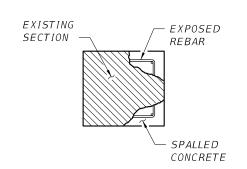
- 1. SOUND ALL CONCRETE SURFACES AT CONCRETE REPAIR LOCATIONS TO DETERMINE THE LIMITS OF UNSOUND CONCRETE TO BE REMOVED AND REPAIRED. MARK LIMITS ON THE SURFACES FOR REVIEW AND APPROVAL BY THE ENGINEER BEFORE CONCRETE REMOVAL. THE DEPTH OF REMOVAL PER THE NOTES AND DETAILS PROVIDED WITHIN THESE PLANS AND AS APPROVED BY THE ENGINEER.
- 2. DELINEATE ALL REPAIR AREAS WITH SQUARE EDGES AROUND THE PERIMETER OF THE REPAIR AREA DEFINED BY 1" DEEP SAW CUT LINES. REMOVE ALL UNSOUND CONCRETE WITHIN THE SAWCUT LIMITS BY MECHANICAL MEANS OR HYDRODEMOLITION, BUT DO NOT USE EXCESSIVE FORCE, WHICH MAY CAUSE MICRO-FRACTURING OF THE SOUND CONCRETE. REMOVE CONCRETE A MINIMUM OF 1" DEEP WITHIN SAWCUT LIMITS. EXTEND THE PERIMETER OF THE REPAIR AREA AS REQUIRED TO EXPOSE REINFORCING STEEL A MINIMUM OF 4" FROM THE CORRODED PORTION. ALL REPAIR EDGES SHALL BE SQUARED. FEATHERED EDGES WILL NOT BE ACCEPTABLE.
- 3. WHERE THE BOND BETWEEN EXISTING CONCRETE AND REINFORCEMENT HAS BEEN DESTROYED OR WHERE MORE THAN HALF THE BAR CIRCUMFERENCE IS EXPOSED, REMOVE THE CONCRETE ADJACENT TO THE BAR TO A DEPTH THAT WILL PERMIT THE REPAIR MATERIAL TO BOND TO THE ENTIRE PERIPHERY OF THE BAR. PROVIDE A 1" DEPTH BEHIND THE REINFORCEMENT FOR THIS PURPOSE.
- 4. TAKE CARE TO AVOID DAMAGING THE EXISTING REINFORCEMENT AND EXISTING SOUND CONCRETE ELEMENTS. IF ANY REINFORCING STEEL IS DAMAGED, NOTIFY THE ENGINEER FOR ADDITIONAL INSTRUCTIONS ON THE APPLICABLE REPAIR. ANY REINFORCING STEEL THAT IS DAMAGED BY THE CONTRACTOR IS TO BE REPAIRED AT NO COST TO THE COUNTY.
- 5. SECURE IN PLACE ANY LOOSE REINFORCEMENT BY TYING TO OTHER SECURED BARS OR BY OTHER APPROVED METHODS. INSTALL LAP SPLICES IN ACCORDANCE WITH THE LAP SPLICE TABLE.
- 6. CLEAN AND RESTORE EXPOSED REBARS AS GUIDED BY THE EXPOSED REINFORCING STEEL NOTES.
- 7. ALL SURFACES TO BE REPAIRED MUST BE CLEAN, SOUND AND FREE OF CHLORIDE CONTAMINATED MOISTURE, OIL AND GREASE. REMOVE DUST, RESIDUE, MARINE GROWTH, LAITANCE, CURING COMPOUNDS, WAXES, IMPREGNATION, FOREIGN PARTICLES AND OTHER BOND INHIBITING MATERIALS FROM THE SURFACE BY MEDIA BLASTING. CHIP OFF AREAS THAT HAVE BEEN SATURATED WITH OIL OR GREASE TO SOUND NON-CONTAMINATED CONCRETE. AREAS THAT MAY TRAP AIR ARE TO BE TRIMMED OR VENTED. IF AREAS BECOME CONTAMINATED AFTER INITIAL CLEANING, THEY MUST BE RE-CLEANED PRIOR TO APPLYING THE REPAIR MATERIAL.
- 8. PROVIDE AN AGGREGATE-FRACTURED SURFACE WITH AN APPROXIMATE SURFACE PROFILE AMPLITUDE OF 1/8" BY USE OF SCRABBLER, OR OTHER APPROPRIATE MEANS AS NECESSARY, TO PROVIDE MECHANICAL LOCK FOR THE REPAIR MATERIAL.
- 9. PRIOR TO APPLYING REPAIR MATERIAL, WET EXPOSED CONCRETE SURFACES WITH CLEAN, POTABLE WATER. PROVIDE WET SATURATED, SURFACE DRY SUBSTRATE.
- 10. APPLY A TYPE AB EPOXY COMPOUND, IN ACCORDANCE WITH SPECIFICATIONS SECTION 926, TO THE EXISTING CONCRETE SURFACES PRIOR TO PLACING THE FRESH REPAIR MATERIAL. REMOVE AND RE-CLEAN THE CONCRETE SURFACE IF THE REPAIR MATERIAL IS NOT APPLIED WITHIN THE BONDING COMPOUND MANUFACTURER APPLICATION TIME WINDOW.
- 11. PLACE FORMWORK, IF NECESSARY. SUPPORT FORMWORK BY STAINLESS STEEL INSERTS WHERE REQUIRED. LOCATE STAINLESS STEEL INSERTS IN SOUND CONCRETE. IF USED, STAINLESS STEEL INSERTS ARE TO REMAIN IN PLACE. RECESS AND PATCH OVER STAINLESS STEEL INSERTS LEFT IN PLACE.
- 12. COMPLETE THE PLACEMENT OF FORMS AND POURING AS SOON AS PRACTICAL AFTER MEDIA BLASTING AND BEFORE ANY OTHER CONTAMINATING SITUATION OCCURS (72 HRS. MAX.).

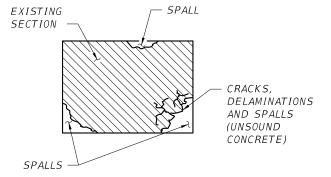
EXPOSED REINFORCING STEEL NOTES:

- 1. CLEAN ALL REINFORCING BARS EXPOSED AFTER CONCRETE REMOVAL IN ACCORDANCE WITH SSPC-SP10, NEAR WHITE, PER THE SOCIETY OF PROTECTIVE COATINGS.
- 2. WHERE EXISTING REINFORCING STEEL HAS GREATER THAN 25% LOSS IN CROSS-SECTIONAL AREA DUE TO CORROSIVE DETERIORATION OR DAMAGE, SUPPLEMENT WITH ADDITIONAL REINFORCING OF EQUIVALENT AREA. WHEN USING NEW BARS IN PLACE, MAINTAIN THE ORIGINAL COVER, SPLICE THE BAR AS DETAILED, AND, IF NECESSARY, PROVIDE ADDITIONAL CHIPPING. DUAL BARS OF EQUIVALENT OR GREATER SECTION MAY BE USED. DETERMINE THE SPLICE LENGTH USING THE SMALLER BAR SIZE BETWEEN THE EXISTING DAMAGED REINFORCEMENT AND THE SUPPLEMENTAL REINFORCEMENT.

CONCRETE REPAIR NOTES:

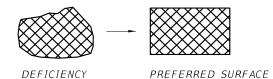
- 1. RESTORE CONCRETE SURFACES USING APPROVED MATERIALS IN ACCORDANCE WITH SPECIFICATIONS,
- 2. MIX, PLACE AND CURE REPAIR MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 3. FINISH REPAIR MATERIALS FLUSH WITH THE ORIGINAL CONCRETE SURFACE UNLESS OTHERWISE NOTED. MEET THE SURFACE FINISH REQUIREMENTS FOR A GENERAL SURFACE FINISH PER SPECIFICATIONS, SECTION 400.
- 4. CURE REPAIR MATERIALS AS NECESSARY TO PREVENT SHRINKAGE & TEMPERATURE CRACKS. CRACKED REPAIRS ARE NOT CONSIDERED SATISFACTORY. REMOVE AND REPLACE CRACKED REPAIRS AT NO EXPENSE TO THE COUNTY.

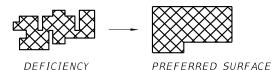




TYPICAL SPALL WITH EXPOSED REBAR

TYPICAL DELAMINATIONS AND SPALLS





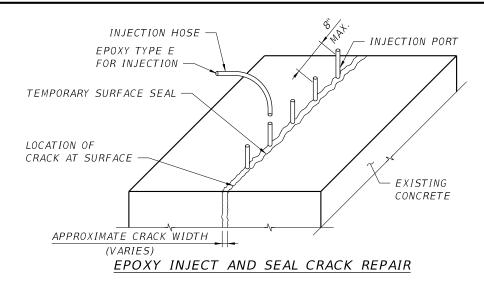
TYPICAL DEFICIENCY

BRIDGE NO. 014073

REVISIONS REF. DWG. N CONCRETE RESTORATION Shinii Konno, P.F. Date By Description Description Date hecked b DETAILS (I OF 2) P.E. LICENSE NUMBER 39536 RT HDR Engineering, Inc. esigned by SHEET N 4830 W. Kennedy Blvd., Suite 400 CHARLOTTE COUNTY MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE TAMPA FI 33609-2548 hecked b 22 FLORIDA

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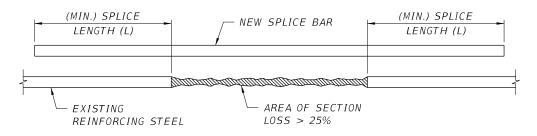


CONCRETE CRACK REPAIR PROCEDURE:

- 1. IDENTIFY AND MARK THE LOCATIONS AND LIMITS OF CRACKING, CRACK ROUTING AND SEALING FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO THE START OF WORK.
- 2. REMOVE UNSOUND CONCRETE FROM CRACK AREA IN ACCORDANCE WITH SECTION 411 OF THE SPECIFICATIONS. IF CONCRETE AROUND CRACK IS DELAMINATED, REPAIR AS A DELAMINATION.
- 3. OBTAIN ENGINEER'S APPROVAL TO CARRY OUT CRACK REPAIR (IN LIEU OF SPALL REPAIR) FOR CASES WHERE ADJACENT CONCRETE IS OTHERWISE SOUND AND CRACKING IS NOT A RESULT OF CORRODING REINFORCEMENT.
- 4. PREPARE CRACK SURFACE IN ACCORDANCE WITH SECTION 411 OF THE SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. SEALING OF CRACKS SHALL NOT BE PERFORMED WHILE THE CRACKS ARE DAMP.
- 5. APPLY CLASS 2 SURFACE FINISH AT CRACK REPAIR TO REMOVE FINS OR KNOBS.
- 6. USE CRACK AND CAP SEAL MATERIALS IN ACCORDANCE WITH SPECIFICATIONS SECTION 926 AND APPROVED BY THE ENGINEER PRIOR TO BEGINNING OF CONSTRUCTION.
- 7. DELIVER REPAIR MATERIALS TO THE SITE IN THE MANUFACTURER'S ORIGINAL SEALED CONTAINERS. MARK EACH CONTAINER LEGIBLY WITH THE NAME OF THE MANUFACTURER AND THE TRADE NAME OF THE SEALER.
- 8. GRIND OFF EXCESS EPOXY AND PORTS TO THE EXISTING PROFILE AFTER EPOXY INJECTION IS COMPLETED AND EPOXY HAS SET.

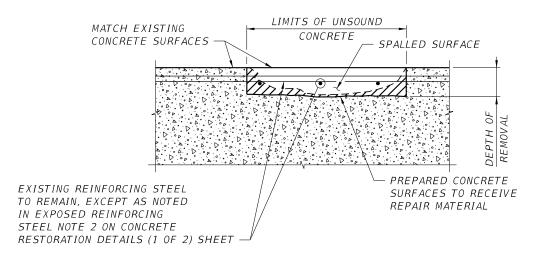
	CONCRETE CRACK REPAIR TABLE BRIDGE NO. 014073										
DIMENSIONS PER INSPECTION											
LOCATION	LENGTH	WIDTH	DEPTH	VOLUME							
	(IN)	(IN)	(IN)	(GA)							
PILE 3-9, SOUTH FACE, TOP OF PILE	48.0	0.13	4.00	0.42							
EPOXY INJECTION TOTAL	4 FT			1 GA							

CRACK DEPTH ESTIMATED FOR QUANTITY PURPOSES.



SPLICE BAR PLACEMENT DETAIL (NOT TO SCALE)

LAP S	SPLICE TA	BLE				
REBAR SIZE LAP SPLICE LENGTH (
	FT	IN				
4	1	9				
5	2	2				
6	2	7				
7	3	3				



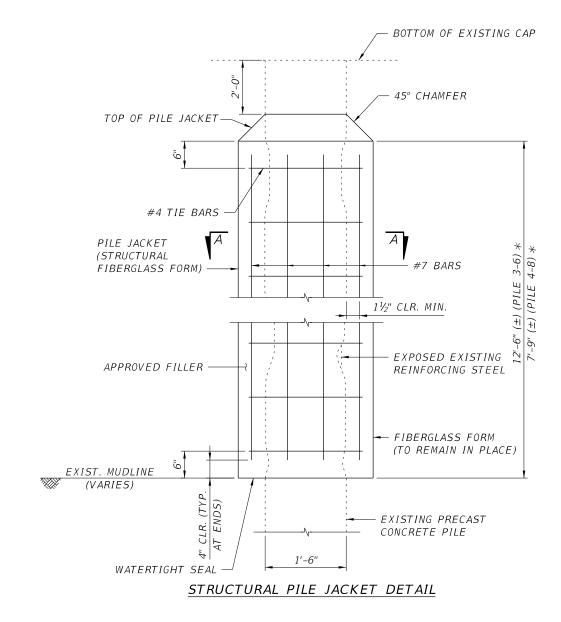
EXPOSING AND UNDERCUTTING REINFORCING STEEL (APPLICABLE TO HORIZONTAL, VERTICAL, AND OVERHEAD LOCATIONS)

BRIDGE NO. 014073 | 岩

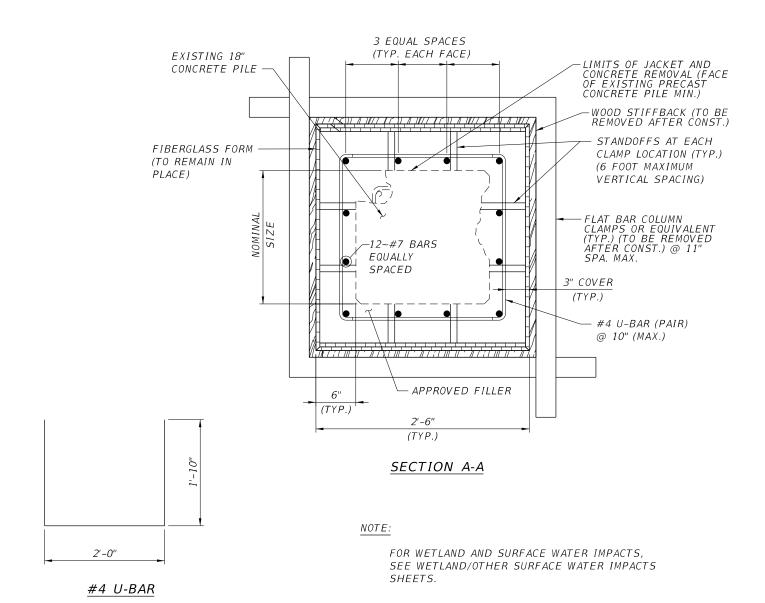
		REV.	ISIONS				Drawn By:		SHEET TITLE:	CONCRETE DECTORATION	REF. I	DWG. NO.
Date	Ву	Description	Date	Ву	Description	Shinji Konno, P.E. P.E. LICENSE NUMBER 39536	Checked by:			CONCRETE RESTORATION DETAILS (2 OF 2)		
						HDR Engineering, Inc. 4830 W. Kennedy Blvd., Suite 400	Designed by: CMH	CHARLOTTE COUNTY	PROJECT NAME:			ET NO.
						TAMPA, FL 33609-2548	Checked by: SK	FLORIDA	MIDWAY E	LVD AT NORTH SPRING LAKE BRID	GE 2	23
								NROSALES	11/13/2024 4:07	59 PM c:\pwworking\east0I\d2386703\BIConstDet02.dg	n	

- 1. CONFIRM ELEVATIONS WITH THE ENGINEER PRIOR TO ORDERING MATERIAL.
 ADJUSTMENTS MAY BECOME NECESSARY DUE TO CONSTRUCTION CONDITIONS.
 FIELD VERIFY ALL EXISTING PILE DIMENSIONS AND ACQUIRE ACCEPTANCE
 BY THE ENGINEER PRIOR TO BEGINNING ANY WORK.
- 2. CLEAN MARINE GROWTH AND PERFORM AN UNDERWATER INSPECTION OF ALL PILES PRIOR TO BEGINNING PILE JACKET WORK, NOTIFY THE ENGINEER IF ADDITIONAL JACKET LENGTHS TO INCLUDE NEW DEFICIENCIES ON ALREADY IDENTIFIED PILES ARE NECESSARY. INCLUDE ALL DETERIORATED CONCRETE WITHIN JACKET LENGTHS.
- 3. PROVIDE JACKET CHAMFERS WITH NEAT LINES, FREE OF CRACKS. IF CRACKING OCCURS, REMOVE AND REPLACE CHAMFER MATERIAL AT THE DISCRETION OF THE ENGINEER. CURE CHAMFERS PER MANUFACTURER'S RECOMMENDATIONS TO PREVENT CRACKING.
- 4. CLEAN PILES IN ACCORDANCE WITH SPECIFICATION SPECIAL PROVISION SECTION 457.

- 5. PROVIDE STAY-IN-PLACE FORMS IN ACCORDANCE WITH SPECIFICATION SPECIAL PROVISION SECTION 457.
- 6. PROVIDE HOLES IN THE WOOD STIFFBACKS TO RELIEVE PRESSURE ON THE STANDOFF HEADS SO THE FORM WILL NOT BE DEFORMED OR MISALIGNED. WOOD STIFFBACKS TO BE REMOVED AFTER CURING.
- 7. PROVIDE A PUMPING PORT WITHIN 4" OF THE PILE JACKET BOTTOM OR GROUNDLINE TO APPLY FILLER. IF ADDITIONAL PUMPING PORTS ARE REQUIRED TO ENSURE PROPER FILLING, LOCATE THEM ABOVE THE BOTTOM PORT HOLE, STAGGERED AND ON OPPOSITE SIDES WITH A 3 FOOT MAXIMUM SPACING.
- 8. PROVIDE JACKET FILLER IN ACCORDANCE WITH SPECIFICATIONS SPECIAL PROVISION SECTION 457.
- P. REPAIR SPALLS OUTSIDE THE LIMITS OF THE APPROVED JACKET LENGTHS.
- 10. SEE SPECIFICATIONS SPECIAL PROVISION SECTION 457, BASIS OF PAYMENT FOR PAY ITEM INFORMATION.



* VERIFY ACTUAL JACKET LENGTHS BEFORE ORDERING JACKETS.



BRIDGE NO. 014073 \ \ \ \ \

L										
		REVIS	IONS			Drawn By:		SHEET TITLE:	REF. DWG. NO	10.
F	Date By	Description	Date By	Description	Shinji Konno, P.E. P.E. LICENSE NUMBER 39536	NTR Checked by: RT		PILE JACKET DETAILS		1
١					HDR Engineering, Inc. 4830 W. Kennedy Blvd., Suite 400	Designed by: CMH	CHARLOTTE COUNTY	PROJECT NAME:	SHEET NO	Э.
					TAMPA, FL 33609-2548	Checked by: SK	FLORIDA	MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	24	
							NROSALES	/ 13/2024 4:08:58 PM c:\pwworking\east0 \d2386703\B PileDet0 .dgn	•	_

EXPANSION JOINT REPAIR/REPLACEMENT PROCEDURE:

- 1. REPLACE EXISTING BRIDGE EXPANSION JOINT(S) AT LOCATIONS LISTED IN EXPANSION JOINT REPAIR TABLE WITH POURED JOINT WITH BACKER ROD.
- 2. FABRICATE AND INSTALL BRIDGE EXPANSION JOINT(S) (INCLUDING SIDEWALK COVER PLATES) IN ACCORDANCE WITH SPECIFICATIONS SECTION 458 AND STANDARD PLANS INDEX 458-110.
- 3. INSTALL A NEW FULL WIDTH JOINT FROM BRIDGE COPING TO BRIDGE COPING.
- 4. PREPARE SURFACES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 5. VERIFY EXISTING JOINT OPENINGS BEFORE ORDERING JOINT MATERIAL. FOR MINIMUM JOINT WIDTH REQUIREMENTS, FOLLOW MANUFACTURER'S RECOMMENDATIONS. NOTIFY THE ENGINEER IF A JOINT WIDTH LESS THAN 1/2", OR MORE THAN 3", IS ENCOUNTERED. INSTALL BACKER ROD TO ACCOMMODATE ANY CHANGES IN JOINT WIDTH ALONG THE LENGTH OF THE JOINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. NOTIFY THE ENGINEER IF THE JOINT WIDTH ALONG THE LENGTH OF THE JOINT VARIES BY MORE THAN 1/8".

POURED	Table Date 1-01-09					
LOCATION	DIM. "A" @ 70°F	TOTAL DESIGN MOVEMENT	DESIGN DIM. "A" ADJUSTM EMENT PER 10°F			
END BENT 1	1"	0		0		
END BENT 5	1"	0		0		

NOTE:

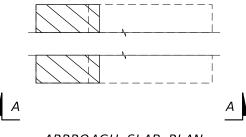
Dim. "A" adjustment per 10°F shown is measured perpendicular to Ç Expansion Joint. Work this table with Standard Plans Index 458-110.

INTERMEDIATE BENT JOINT MEMBRANE:

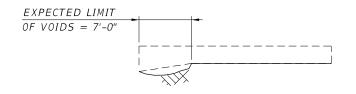
FOLLOWING ASPHALT MILLING AND PRIOR TO BRIDGE DECK AND SIDEWALK RESURFACING, APPLY A PAVING MEMBRANE (PETROTAC OR APPROVED EQUAL). EXTEND MEMBRANE FROM GUTTER TO GUTTER ALONG ROADWAY AND FULL WIDTH OF SIDEWALK. PREPARE SURFACES AND INSTALL MEMBRANE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS, PROVIDE A MINIMUM ROLL WIDTH OF 2 FT. CENTERED ABOUT INTERMEDIATE BENT JOINT CENTERLINE.

UNDERMINED APPROACH SLAB REPAIR PROCEDURE:

USE CEMENTITIOUS GROUT, IN ACCORDANCE WITH SPECIFICATION SECTION 934, TO FILL VOIDS UNDER BOTH APPROACH SLABS (INCLUDING BENEATH SIDEWALK). THE CONTRACTOR IS ALLOWED TO DRILL HOLES TO INJECT GROUT INTO VOIDS. SUBMIT SHOP DRAWINGS TO THE PROJECT ENGINEER DESCRIBING THE GROUTING PROCEDURE INCLUDING A NUMBER OF INJECTION PORTS AND A METHOD TO CONTAIN GROUT AT EACH EDGE OF APPROACH SLAB WHERE A VOID IS VISIBLE.



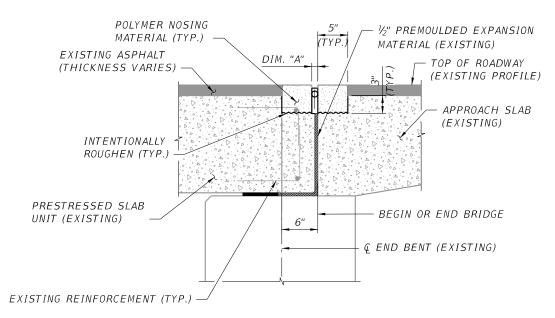
APPROACH SLAB PLAN



VIEW A-A

EXPANSION JOINT HEADER REPAIR NOTES:

- 1. EXPANSION JOINT HEADERS ARE TO BE CONSTRUCTED FROM GUTTER TO GUTTER ALONG THE ROADWAY. WHILE CONSTRUCTING THE SIDEWALK OVERLAY, FORM A JOINT WIDTH CONSISTENT WITH THE POURED EXPANSION JOINT DATA TABLE.
- REMOVE THE PREMOULDED EXPANSION MATERIAL FROM THE EXISTING EXPANSION JOINTS FROM THE TOP OF THE BRIDGE SLAB TO THE BOTTOM OF THE DETAILED JOINT HEADER.
- DELINEATE THE JOINT HEADER AT EDGE OF BRIDGE SLAB AND APPROACH SLAB APPROXIMATELY 51/2" FROM THE CENTERLINE OF THE JOINT WITH 1" DEEP SAW CUT LINES. REMOVE CONCRETE AND REMNANTS OF THE ORIGINAL EXPANSION JOINT COMPONENT WITHIN THE SAW CUT LIMITS BY MECHANICAL MEANS OR HYDRODEMOLITION, BUT DO NOT USE EXCESSIVE FORCE, WHICH MAY CAUSE MICRO-FRACTURING OF THE SOUND CONCRETE, TO A DEPTH OF 3" INTO THE EXISTING CONCRETE APPROACH SLAB AND BEAM.
- TAKE CARE TO AVOID DAMAGING THE EXISTING REINFORCEMENT. IF ANY REINFORCING STEEL IS DAMAGED, NOTIFY THE ENGINEER FOR ADDITIONAL INSTRUCTIONS ON THE APPLICABLE REPAIR. ANY REINFORCING STEEL THAT IS DAMAGED BY THE CONTRACTOR IS TO BE REPAIRED AT NO COST TO THE COUNTY.
- PROVIDE AND INSTALL NEW JOINT HEADERS AS SHOWN IN THE DETAILS USING A POLYMER NOSING SYSTEM (SSI SILSPEC 900 OR APPROVED EQUAL) COMPATIBLE WITH THE JOINT SEALANT AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. FINISH FLUSH WITH THE DECK SURFACE.
- REMOVE THE FORMS AND INSTALL A NEW POURED EXPANSION JOINT SYSTEM IN ACCORDANCE WITH THE EXPANSION JOINT REPAIR/REPLACEMENT PROCEDURE.



JOINT HEADER SECTION

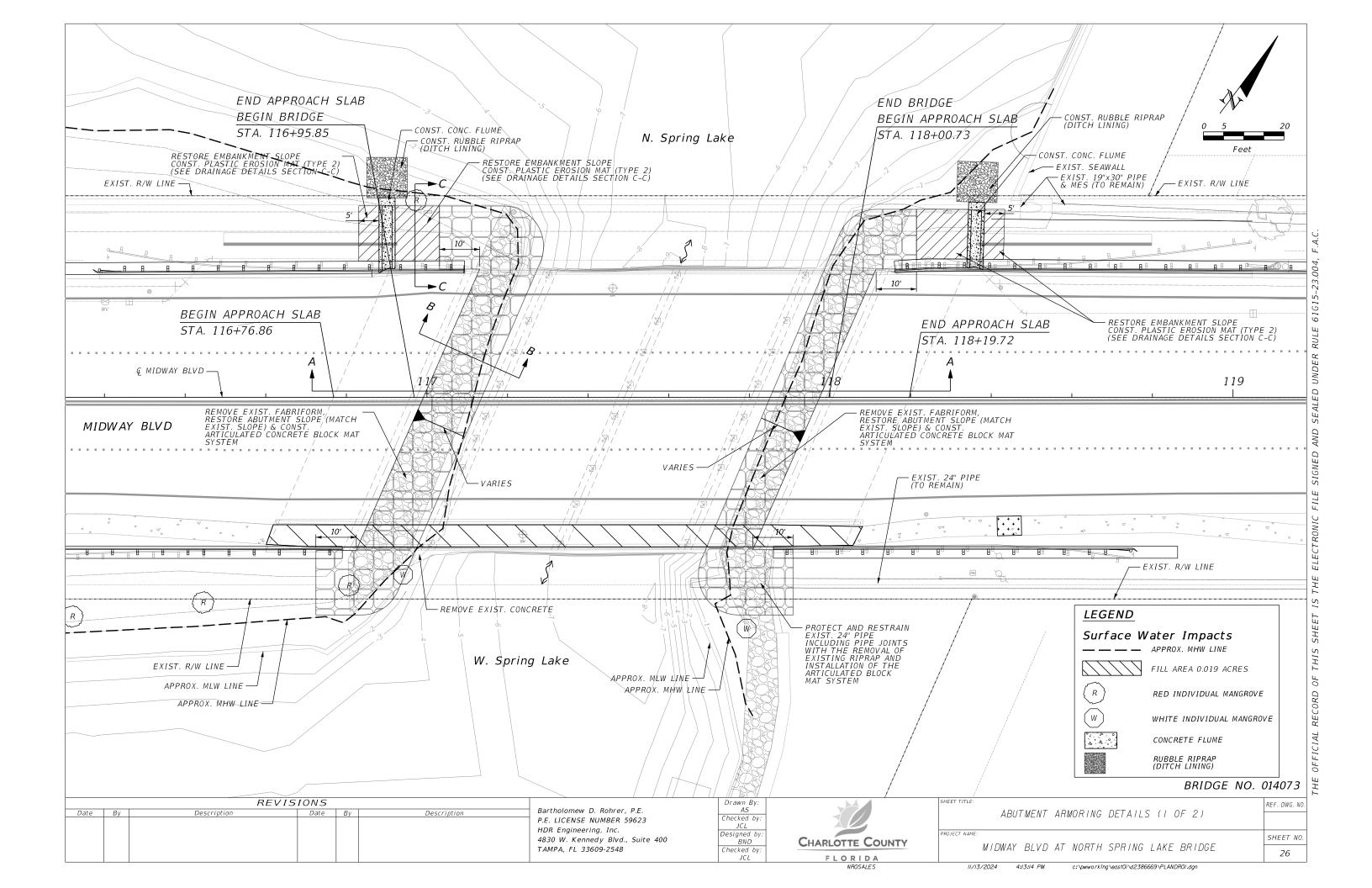
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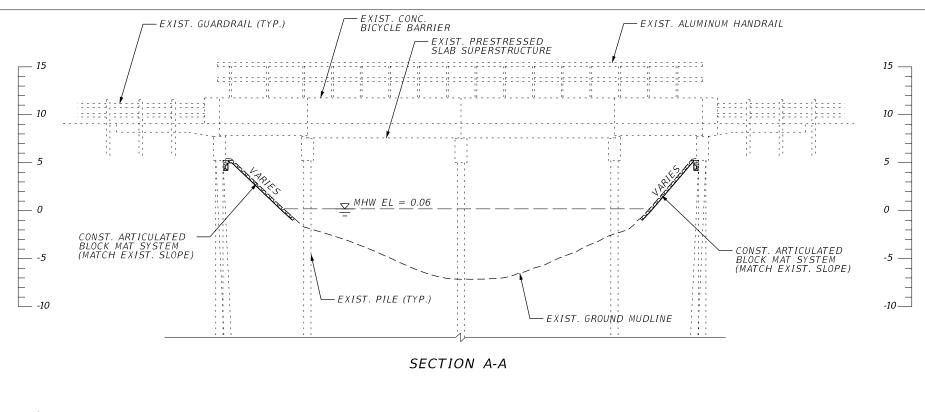
FOR EXPANSION JOINT REPAIR (POURED JOINT), NON-SHRINK GROUT AND JOINT HEADER POLYMER NOSING QUANTITY TABLES, SEE QUANTITIES SHEET.

BRIDGE NO 014073

									DNIDGE NO	J. 01407J
	REV	ISIONS				Drawn By:		SHEET TITLE:		REF. DWG. NO.
Date B)	Description	Date	Ву	Description	Shinji Konno, P.E. P.E. LICENSE NUMBER 39536	Checked by: RT		MISCELLANE	TOUS REPAIR DETAILS	
					HDR Engineering, Inc. 4830 W. Kennedy Blvd., Suite 400	Designed by: CMH	CHARLOTTE COUNTY	PROJECT NAME:	JODIN CDDING LAKE DDIGGE	SHEET NO.
					TAMPA, FL 33609-2548	Checked by: SK	FLORIDA	MIDWAY BLVD AI N	IORTH SPRING LAKE BRIDGE	25
							NROSALES	11/13/2024 4:10:03 PM c:	:\pwworking\east0I\d2386703\BIMiscDet0I.dgn	

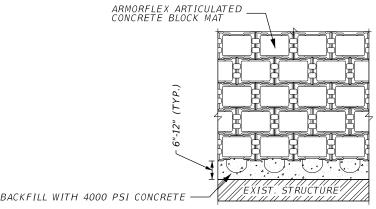
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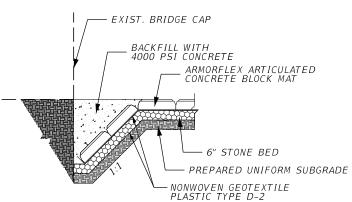
ABUTMENT ARMORING NOTES:

- FOR ABUTMENT ARMORING UTILIZE AN ARTICULATED CONCRETE BLOCK MAT PREFABRICATED AS AN ASSEMBLY OF CONCRETE BLOCKS HAVING SPECIFIC HYDRAULIC CAPACITIES, AND LACED WITH REVETMENT CABLES, SUITABLE FOR PROMOTING VEGETATION AND INSTALLATION WITH SMALL MACHINES (MINI EXCAVATORS, ETC.). INSTALL THE ARTICULATED CONCRETE BLOCK MAT SYSTEM IN ACCORDANCE WITH FOOT STANDARD SPECIFICATION SECTION 530-1.2 AND THE MANUFACTURER'S RECOMMENDATIONS.
- FOR THE ARTICULATED CONCRETE BLOCK MAT SYSTEM UTILIZE "ARMORFLEX" ARTICULATED CONCRETE BLOCK MAT SYSTEM MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS (CONTECHES.COM) OR APPROVED EQUAL. SECURE THE ARTICULATED CONCRETE BLOCK MAT SYSTEM TO THE ROADWAY EMBANKMENT AND ABUTMENTS BY USING EARTH PERCUSSION ANCHORS TERRA-LOCK 4CRS" MANUFACTURED BY GRIPPLE INC. (GRIPPLE.COM), OR
- COST FOR MATERIALS AND INSTALLATION INCIDENTAL TO THE ARTICULATED CONCRETE BLOCK MAT SYSTEM, INCLUDING EARTH PERCUSSION ANCHOR SYSTEMS, WILL BE PAID FOR UNDER PAY ITEM 530-4-6 (SY), IN ACCORDANCE WITH THE SPECIFICATIONS.
- PRIOR TO PLACEMENT OF THE ARTICULATED CONCRETE BLOCK SYSTEM REMOVE ALL ROOTS, STICKS, ROCKS OR DEBRIS OF ANY KIND, STABILIZE AND SMOOTH OUT ALL SUBGRADE SURFACES.
- SPACE THE EARTH PERCUSSION ANCHORS AT MINIMUM 5-FT. CENTERS IN A DIAMOND PATTERN AND TO A DEPTH OF 5-FT.
- UTILIZE NONWOVEN GEOTEXTILE PLASTIC TYPE (D-2) IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATION SECTION 985 FOR UNDERLAYMENT OF THE INSTALLATION. COST FOR NONWOVEN GEOTEXTILE (SY) IS INCLUDED WITH THE ARTICULATED CONCRETE BLOCK



END TO STRUCTURE

TYPICAL MAT TO STRUCTURE DETAIL (N.T.S.)



ARMORFLEX TYPICAL MAT TO STRUCTURE ANCHOR DETAIL (N.T.S.)

4000 PSI CONCRETE. COST IS INCLUDED WITH THE ARTICULATED CONCRETE BLOCK MAT SYSTEM	BACKFI
REMOVE EXIST. FABRIFORM, RESTORE ABUTMENT SLOPE (MATCH EXIST. SLOPE) & CONST. ARTICULATED CONCRETE BLOCK MAT SYSTEM ARMORFLEX ARTICULATED CONCRETE BLOCK MAT	ARMORFLEX ARTICULATED CONCRETE BLOCK MAT
6" STONE BED. COST IS INCLUDED WITH THE ARTICULATED CONCRETE BLOCK MAT SYSTEM NONWOVEN GEOTEXTILE PLASTIC TYPE D-2. COST IS INCLUDED WITH THE ARTICULATED CONCRETE BLOCK MAT SYSTEM PREPARED UNIFORM SUBGRADE PER FDOT STANDARD SPECIFICATION SECTION 530-3.5.	6" STONE BED NONWOVEN GEOTEXTILE
STANDARD SPECIFICATION SECTION 530-3.5. COST IS INCLUDED WITH THE ARTICULATED CONCRETE BLOCK MAT SYSTEM MHW EL = 0.06	PREPARED UNIFORM SUBGRADE

SECTION	В-В	(N.T.S)
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LOW MEMBER -

ARTICULATED BLOCK MAT QUANTITY (SY)	BEDDING STONE QUANTITY (TN)
634	155.6

11/13/2024

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BRIDGE NO. 014073

SHEET NO

27

		REVIS	IONS			
Date	Ву	Description	Date	Ву	Description	Bartholomew D. Rohrer, P.E.
						P.E. LICENSE NUMBER 59623
						HDR Engineering, Inc.
						4830 W. Kennedy Blvd., Suite
						TAMPA, FL 33609-2548

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Checked by JCLDesigned by:

BND

Checked by

JCL

CHARLOTTE COUN FLORIDA

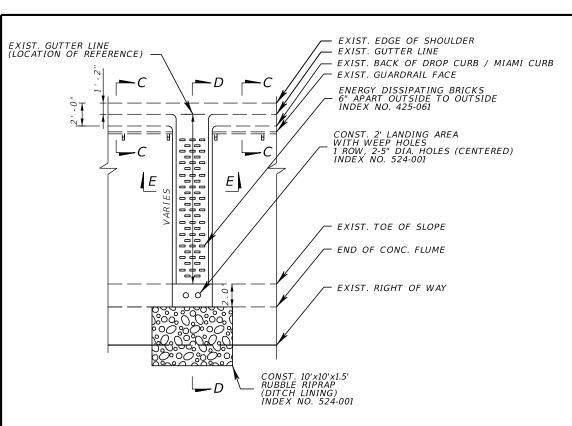
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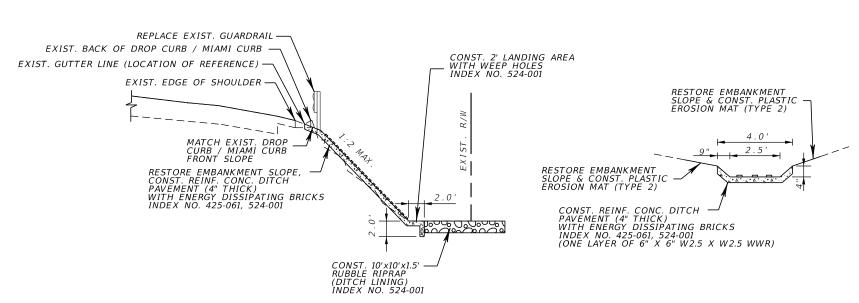
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ITY	

ABUTMENT ARMORING DETAILS (2 OF 2)

MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE

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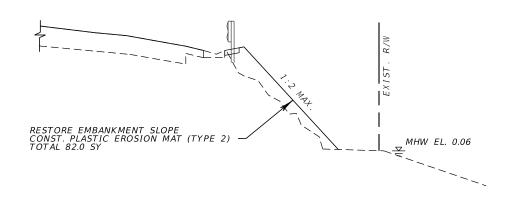
SECTION D-D (N.T.S.)

CONCRETE FLUME DETAILS (N.T.S.)

	CONCRETE FLUME LOCATIONS & QUANTITIES									
STATION SIDE OFFSET CONC. QTY. (SY)				RUBBLE RIPRAP (DITCH LINING) QTY. (TN)	BEDDING STONE ASSOCIATED WITH RUBBLE RIPRAP (DITCH LINING) QTY. (TN)					
116+90.00 LT 32.00 13.0		8.1	5.8							
118+36.00	LT	32.00	13.0	8.1	5.8					
TOTAL			26.0	16.2	11.6					

NOTE:

RESTORE ALL AREAS DISTURED BY CONSTRUCTION TO PRIOR-TO-CONSTRUCTION CONDITION. ALL DISTURED AREAS SHALL BE SODDED.

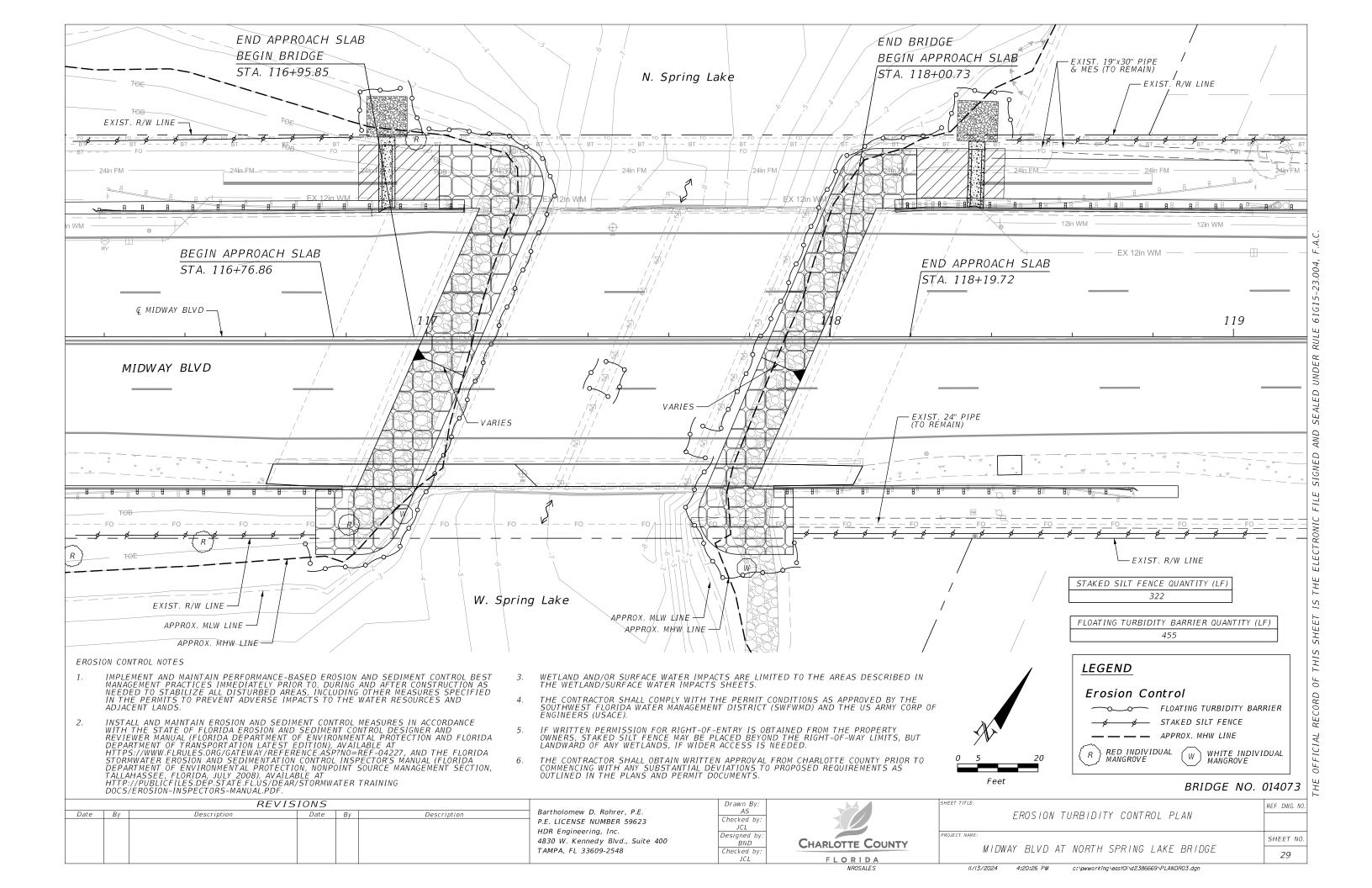


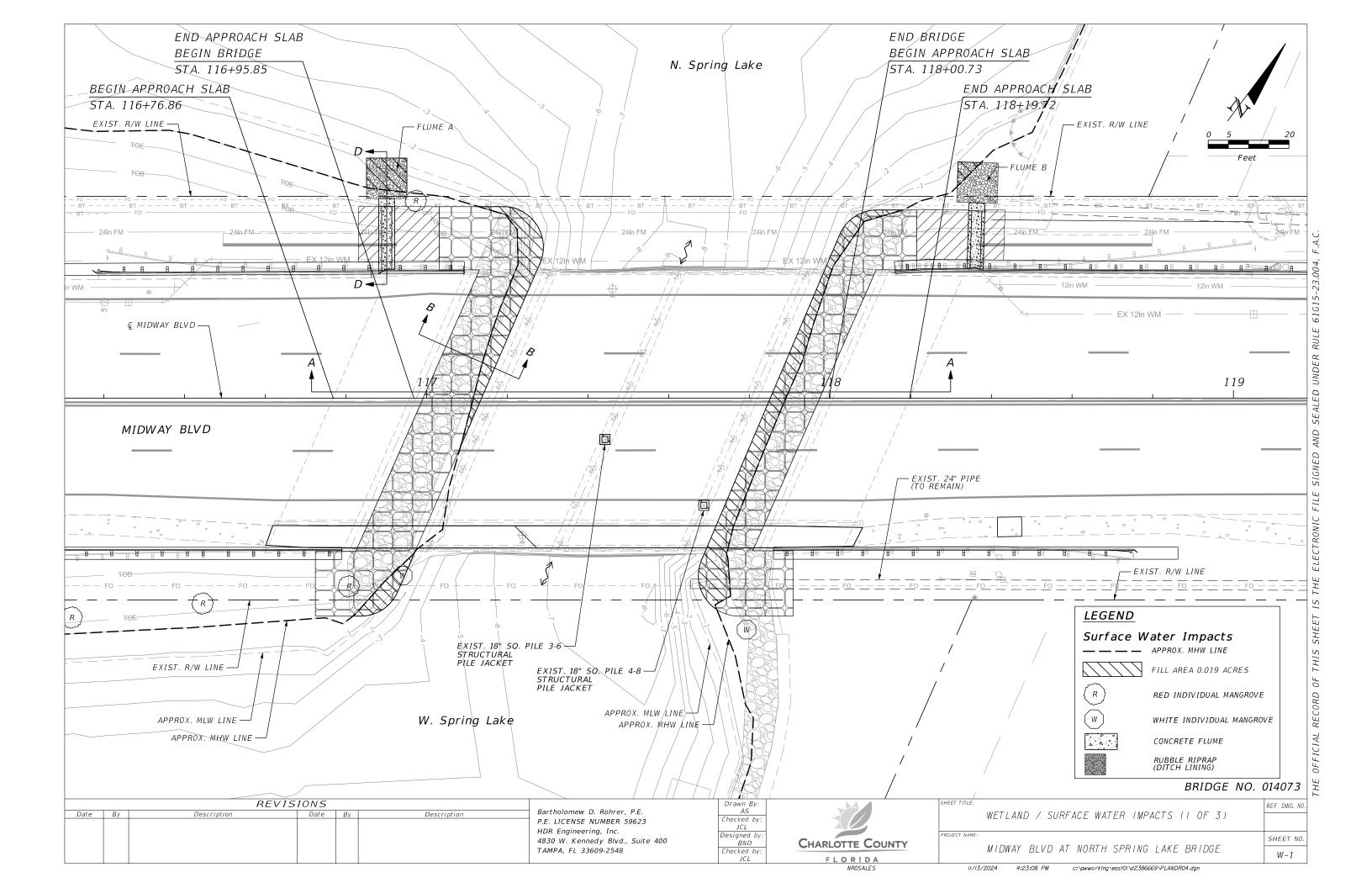
SECTION E-E (N.T.S.)

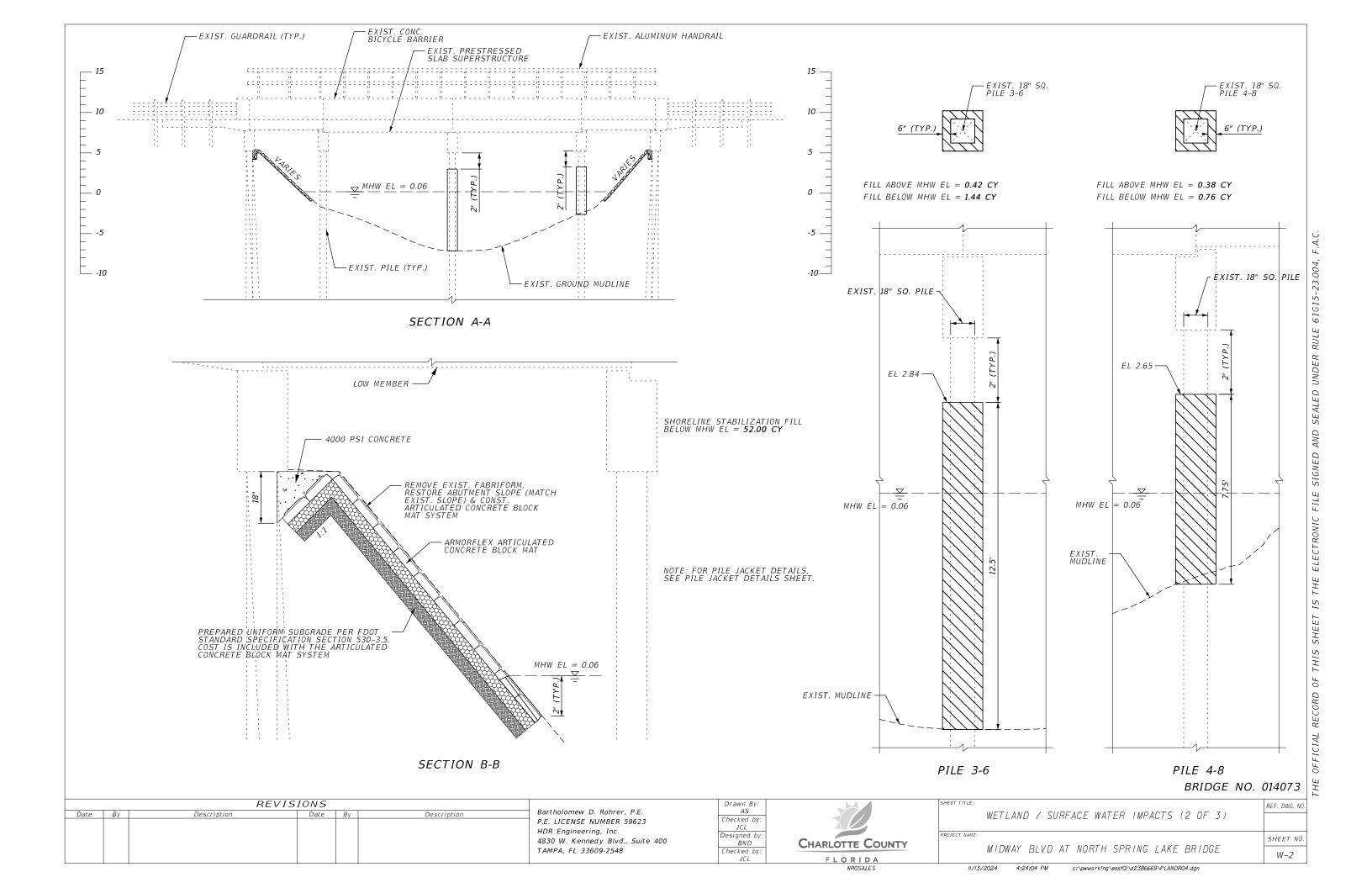
SECTION C-C (N.T.S.)

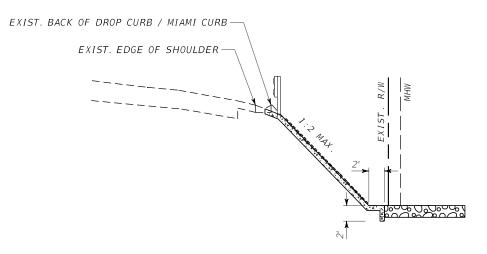
BRIDGE NO. 014073

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Date By	Description	Date By	Description	Bartholomew D. Rohrer, P.E. P.E. LICENSE NUMBER 59623	Checked by: JCL			DRAINAGE DETAILS	
				HDR Engineering, Inc. · 4830 W. Kennedy Blvd., Suite 400	Designed by: BND	CHARLOTTE COUNTY	PROJECT NAME:	VD AT NORTH SPRING LAKE BRIDGE	SHEET NO.
				TAMPA, FL 33609-2548	Checked by: JCL	F L O R I D A NROSALES	II/13/2024 4:16:47		28









SECTION D-D (N.T.S.)
CONCRETE FLUMES



CONCRETE FLUME A OUTFALL RUBBLE RIPRAP (DITCH LINING)

CONCRETE FLUME B OUTFALL RUBBLE RIPRAP (DITCH LINING)

BRIDGE NO. 014073 불

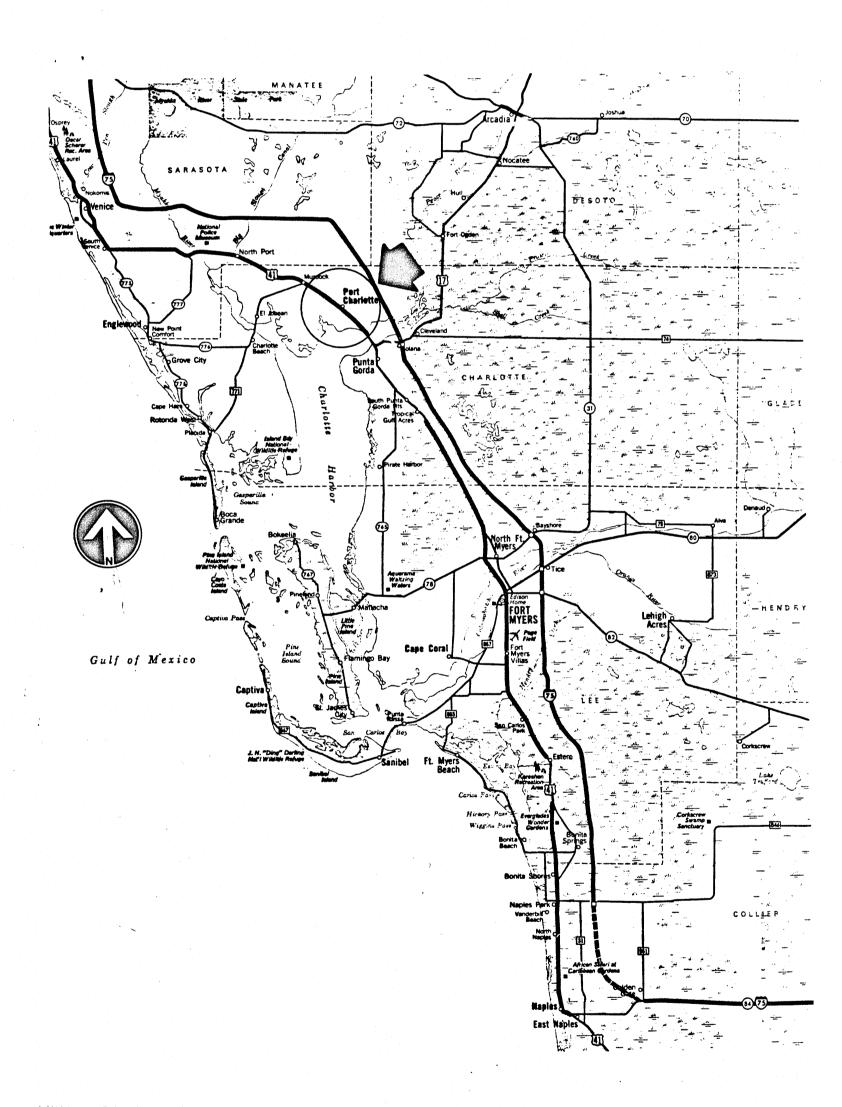
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Date By Description Date By Description	Bartholomew D. Rohrer, P.E. P.E. LICENSE NUMBER 59623 HDR Engineering, Inc. AS Checked by: JCL		WETLAND / SURFACE WATER IMPACTS (3 OF 3)	
	4830 W. Kennedy Blvd., Suite 400 Designed by: BND	CHARLOTTE COUNTY		SHEET NO.
	TAMPA, FL 33609-2548 Checked by: JCL	FLORIDA	MIDWAY BLVD AT NORTH SPRING LAKE BRIDGE	W-3
		NROSALES	/ 3/2024	

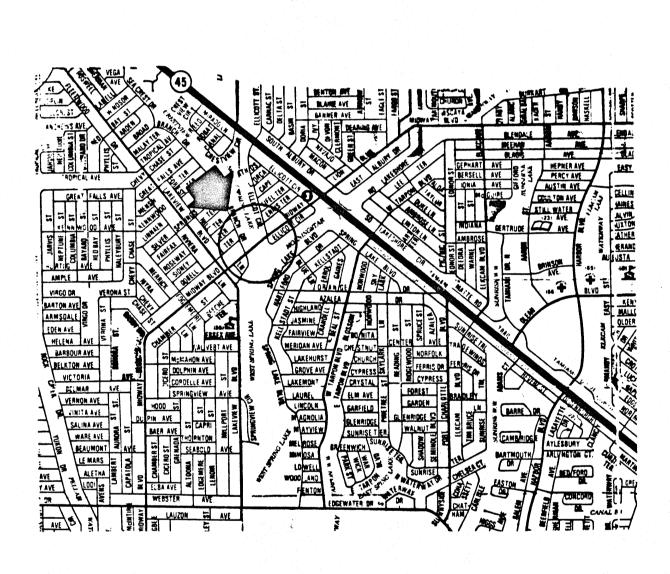
CHARLOTTE COUNTY

BRIDGE REMOVAL AND REPLACEMENT BRIDGE NO. 014020

SPRING LAKE WATERWAY

AT MIDWAY BLVD.





LOCATION MAP

INDEX OF DRAWINGS

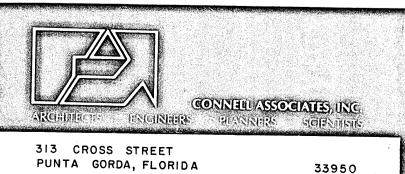
- I- TITLE SHEET
- 2- GENERAL PLAN AND ELEVATION
 3- GENERAL AND CONSTRUCTION NOTES
- 4- BORINGS AND PIPE RELOCATION DETAILS
- 5- END BENT 6- END BENT SECTION AND WING DETAILS
- 7- INTERMEDIATE BENT
- 8- SUPERSTRUCTURE
- 9- SUPERSTRUCTURE SECTION AND DETAILS
- 10- PRESTRESSED CONCRETE SLAB UNITS
- 11- PRESTRESSED CONCRETE SLAB UNITS
- 12- APPROACHES AND APPROACH SLABS 13- PRESTRESSED CONCRETE PILES
- 14- CONCRETE HANDRAIL BARRIER # 12670
- 15 CONCRETE BICYCLE BARRIER # 12931
- 16 MAINTENANCE OF TRAFFIC
- 17- EXISTING FIELD SURVEY

	SUMARY OF ESTIMATED QUANTIT	ES	
ITEM NO.	ITEM	UNIT	QUANTIT
7-11.6-1	UTILITY RELOCATION	L.S.	1
102-1	MAINTENANCE OF TRAFFIC	L.S	
110-3	REMOVAL OF EXISTING STRUCTURE	L.S	1
120-5	CHANNEL EXCAVATION	Co.Yd	450
120-6	EMBANKMENT	いら、夕	86
300-2.3	TACK COAT	Sq.Yd	848
332-1-38	TYPE I ASPHALTIC CONC.(11/2")(BRIDGE)	Sq Yd	751
332-1-38		Sald	848
332-2-7	TYPE I ASPHALTIC CONC. (LEVEL. COURSE)	7	106
400-1-2	CLASS I CONC. (ENDWALLS)	Cy.	2.29
400-2-1	CLASS II CONC. (BRIDGE)	Cu.Yd	157
400-5-4	CONCRETE HANDRAIL BARRIER # 12931	E	204
400-5-5		L.	102
415-1-1	REINFORCING STEEL (BRIDGE)	ر اط	16888
430-8-124		L.F.	120
450-2-1	PRESTRESSED SLAB UNITS (36"x 15")	L.F.	109
450-2-2	PRESTRESSED SLAB UNITS (48"x 15")	L.F.	543
450-2-3	PRESTRESSED SLAB UNITS (36"x 18")	L.F.	187
450-2-4	PRESTRESSED SLAB UNITS (48"×18")	L.F.	933
455-3-2		r. L	1690
455-4-2	PRESTR. CONC. PILING DRIVEN (18'50)	F.	1690
455-9-12	UNLOADED TEST PILES (PREST. CONC) (18"50)	F.	224
455-72	STEEL SHEET PILING	J.S.	1
536-1-2	GUARDRAIL (BRIDGE)	Ė	350
360-1	CONCRETE APPROACH SLABS	Ea.	2
514 - 1	SLOPE PROTECTION	Sayd	484
			i

VICINITY MAP

GRAPHIC SCALE IN MILES

S-CUBE ENGINEERING / CONNELL



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MIDWAY BOULEVARD BRIDGE OVER SPRING LAKE PORT CHARLOTTE, FLORIDA.

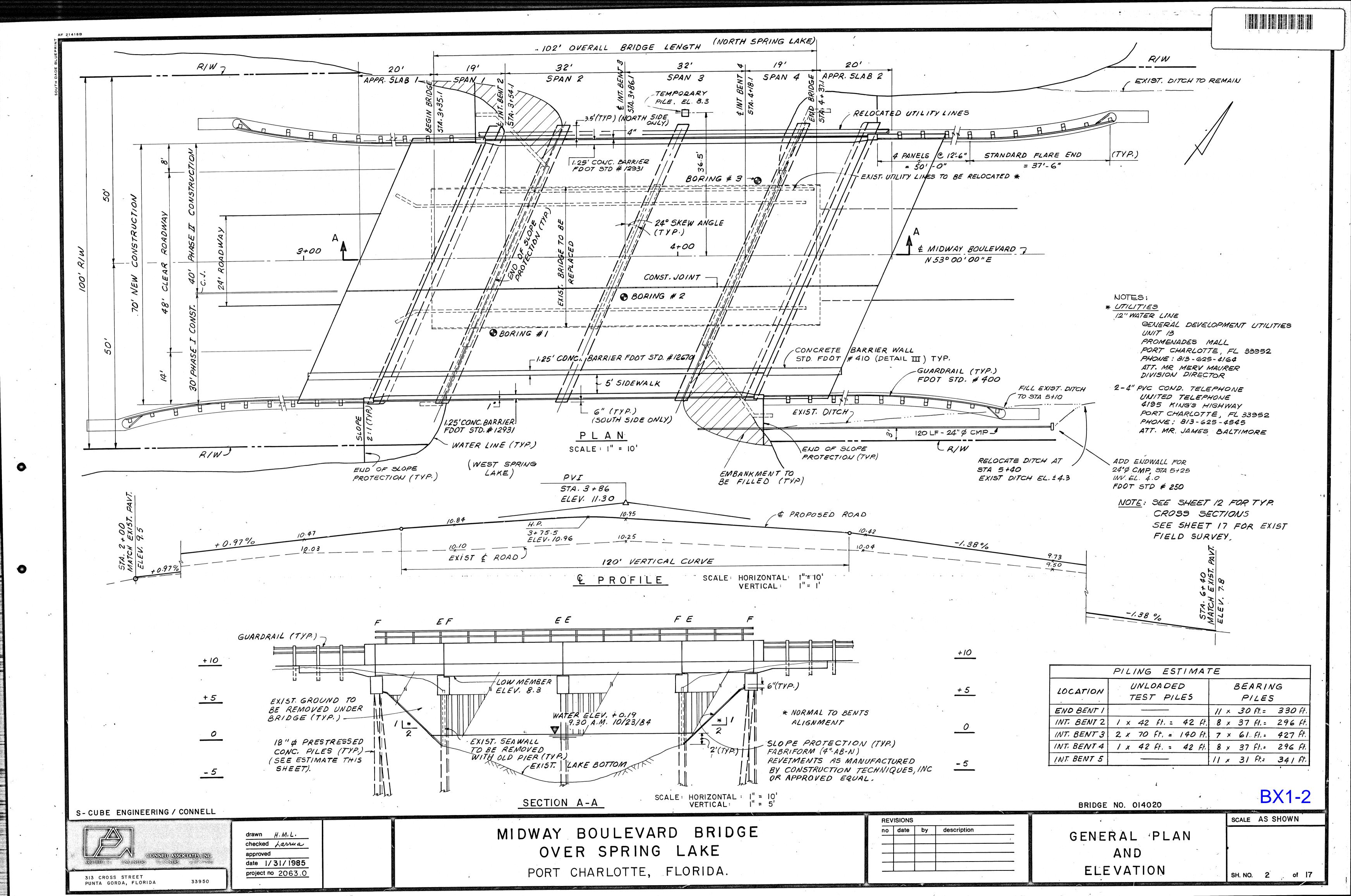
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GENERAL NOTES

CONSTRUCTION SPECIFICATIONS: State of Florida Department of Transportation Standard Specifications for Road and Bridge Construction, Current Edition with approved Supplements thereto.

DESIGN SPECIFICATIONS: American Association of State Highway and Transportation
Officials (AASHTO)Standard Specifications for Highway Bridges, Current
Edition with Approved Revisions thereto.

DESIGN LOADING: Designed in accordance with HS20-44 loading.

FUTURE WEARING SURFACE: An allowance of 151bs, per sq.ft. is included for future wearing surfaces.

REINFORCING STEEL: All reinforcing steel shall conform to ASTM A-615

Grade 60 unless otherwise noted. All reinforcing to be epoxy-coated conforming to ASTM A-775

PILING: Piling shall be 18"sq. Prestressed Concrete Piles. For Quantities see Summary of Bridge Pay Items. Maximum pile loads shall be as follows:

BRIDGE WIDTH	SPAN LENGTH (FT)	LOCATION	PILE LOAD (TONS)
	19	End Bents	<i>30</i>
	19 - 32	Interm. Bents 284	40
48 FT. ROADWAY (MIDWAY BLD.	3 <u>2</u>	Interm. Bent 3	50
BRIDGE)			
	25 To 35	End Bent	30
	25	Intermediate Bent	• -40
44 FT. ROADWAY	27.5 8 30	Intermediate Bent	45
- I	32.5	Intermediate Bent	50
	35	Intermediate Bent	55

CONCRETE: Class II Concrete (fc'= 3400 psi) shall be used throughout the Substructure.

Class II Concrete (fc'= 3400 psi) shall be used for field cast concrete in the Superstructure. Class III Concrete (fc'= 5000 psi) shall be used for prestressed members.

CONCRETE FINISH: Concrete shall be finished in accordance with Specifications.

All exposed top, inside and outside surfaces of End Bent Wingwalls, and

Concrete Handrall Barrier and outside surfaces of Slab Units shall receive

a "Class 5 Applied Finish Coating."

LIMITATIONS FOR USE: These drawings shall not be used for Structures located in Superelevation Transition or for Structures on alignments where the slope (Camber not used) of the slab unit on the bearing is greater than 0.04 feet per foot.

BITUMINOUS MATERIAL: For Type of Bituminous Material, Estimated Quantities, and payment See Sheet I.

ALTERNATE SECTIONS: At the option of the Contractor, wider units may be furnished provided the amount of prestressing per foot of width is maintained.

PRESTRESSED MEMBERS

FINISH: The top of prestressed units shall be finished smooth by floating or brooming.

All other surfaces of the units shall receive a "Class 3" surface finish. The edges of the top surface of the units shall be finished by use of a small radius too!

CONCRETE STRENGTH: At transfer of the prestressing load, the cylinder strength of the concrete shall be 4000ps;

HANDLING & STORAGE: During handling and storage, the prestressed units must be maintained in an upright position at all times. The units must be picked up at the ends of the units to prevent damage.

FORMS & PALLETS: All prestressed units shall be cast on concrete based pallets and in metal forms

STRANDS: At the option of the Contractor, stabilized strands may be used in lieu of stress relieved strands. Calculations are to be submitted showing the substitution meets the following requirements:

1. The strands meet all requirements of ASTM A-416 Grade 270.

2. The net compressive stress in the concrete after all losses is at least as large as that provided by the 270K stress relieved strands.

3. The ultimate strength of the structure meets the requirements of the applicable AASHTO Specifications.

At the option of the Contractor, 250K stress relieved strands may be substituted in lieu of the 270K strands shown provided that calculations are submitted showing compliance with the requirements of items 2 and 3 above. Where alternate strands are proposed, the required calculations shall be submitted with the Shop Drawings.

STRAND EXTENSION: All strands shall extend 27 beyond the ends of the prestressed units.

TIE BARS: Tie bars shall be 12 # Bars for post-tensioning and shall comply with the requirments of Section 933 of the Specifications. The tie bars shall be stressed and anchored at 125,000 lbs. per post-tensioned bar.

SHOP DRAWINGS: The contractor shall submit 7 sets of shop drawings, showing complete details of the proposed prestressed units. The drawings shall include reinforcing steel, prestressing steel, prestressing bed layout, tensioning and detensioning schedules, and all computations required to control the work.

BEARING PADS: Neoprene bearing pads shall be 2 X 6" strips in accordance with section 932-2 of the Specifications. The pads may be continuous strips or multiple lengths of 2-0" minimum length. The pads may be cut trom commercially available sheets and shall be Grade 50.

PAYMENT: The contract unit price for the precast-prestressed units shall include the units, prestressed strands, reinforcing steel shipped with the units, tie bars and anchorages, neoprene bearing pads, premoulded expansion material, and epoxy mortar

TIE BAR ANCHORAGES: The fabricator shall submit details of the Tie Bar Anchorage and Anchorage Reinforcement details for approval with the Shop Plans.

CONSTRUCTION NOTES

EQUIPMENT ON UNITS: Before heavy construction equipment is permitted on the structure during construction, sketches showing the axle spacing and anticipated loadings shall be submitted to and approved by the Engineer.

FILLING KEYWAYS: During placement of the units, or prior to filling the joints between the units and keyways with epoxy mortar, the bottom of the openings shall be sealed to prevent leakage during placement of the epoxy mortar. The seal shall extend upward from the bottom of the unit a maximum of Linch. The material proposed for the seal shall be shown on the shop plans for approval by the Engineer. After the seals are in place for the entire superstructure, the joints and keyways shall be filled with epoxy mortar (See Epoxy Mortar Note below). Careful attention shall be given to the areas where the tie bars and anchorages for the tie bars are to be installed to avoid filling these holes

TIE BARS: The transverse post-tensioned tie bars shall not be tensioned until the epoxy mortar in the joints and keyways has been cured for a minimum of 72 hours. The bars shall be installed, post-tensioned and anchored to 125,000 lbs. each.

GROUTING BARS: The tie bars shall be grouted in accordance with section 450-II of the Specifications.

The grouted tie bars shall not be disturbed, nor shall appreciable loads be placed on the span for a period of 72 hours following grouting.

FILLING ANCHORAGE BLOCKOUTS: All recesses and blockouts for post-tensioned tie bars shall be filled with non-shrinking grout.

"CONTINUED"

PLACING BARRIER WALLS & SURFACING: After all tie bars have been grouted and the minimum 72 hours have passed for all tie bars, the barrier walls and wearing course shall be placed.

SAWED JOINTS: A control crack shall be provided by sawing at all supports a joint, the depth of the wearing surface, from gutter to gutter. The joint shall be centered over the centerline of the concrete joint and shall be sawed upon completion of the surfacing.

EPOXY MORTAR MIX: The epoxy mortar shall be composed of a mixed epoxy binder and sand as follows:

(a) BINDER

The binder shall be a two component (1:1 ratio hydro-ester) material meeting the following requirements:

(I.) The material shall be insensitive to moisture.

(2.) The material shall adhere to wet concrete.

(b) SAND

The sand filler shall be kiln dried silica sand meeting these gradation requirements:

STANDARD SAND

Sieve Si.	ze		% Passing
No. 4			100
No. 16	•		90-100
No.30			30-50
No.50			<i>' 0-10</i>
Na. 100			0-5
	No. 4 No. 16 No.30 No.50	No. 16 No. 30 No. 50	No. 4 No. 16 No. 30 No. 50

		ALTERN	ATE	SAN	0	
<i>U.S</i> .	Sieve Size				9	6 Possing
	No. 4					100
	No. 10					90-100
	No. 20					0-5
	No. 40 -	•				0

(c) MIXING

The epoxy mortar shall be machine mixed in strict accordance with the manufacturer's directions

(1.) One part of binder shall be combined with a maximum of three parts of sand filler.

(2.) No more filler shall be mixed than can be placed into the joints and keyways in a peroid of 20 min. Any material so mixed and not used within the 20 minutes immediately following shall be discarded.

(3) For joints where the above mix will not flow into the voids, the mix may be thinned by adding additional binder to the mix.

(d) STRENGTH

The strength of the epoxy mortar shall be considered acceptable provided that 2 inch cubes of the material demonstrate a compressive strength of 6500 psi when tested. The mix proportions for the test cubes shall consist of one part binder to one part sand filler. The specimen shall be cured at a temperature of 66°F to 74°F and shall be tested in accordance with Section 926-3.2(b) of the Specifications.

BX1-3

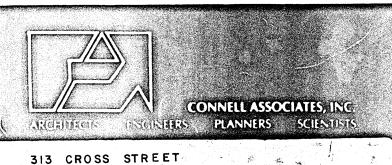
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION
STRUCTURES

GENERAL & CONSTRUCTION NOTES

GENERAL & CONSTRUCTION NOTES

REVISIONS	ROAD NO.		COUNTY			PROJECT NO	
Dates Descriptions			*				
10/80 Revised Environment	1	Names	Dates	APPROVE	D BY		
	Designed by	C.W.	7/78				
5/8/ Concrete Finish	Checked by	J.L.M.	7/78				
6/82 Pavisad Strangth Mate	Quantities by				Deputy Design Engineer, Structure		
6/82 Revised Strength Note. 9/82 Added Bearing Pad Grade.	Quantities by			Dr	awing No	Index No.	
9/82 Added Bearing Pad Grode.	Checked by			10	<i>e</i> /	12661	
	Supervised by	J.L	. M	7 / 0	7 /	12001	

S-CUBE ENGINEERING / CONNELL



PUNTA GORDA, FLORIDA

drawn

checked Lanua
approved
date 1/31/1985
project no 2063.0

MIDWAY BOULEVARD BRIDGE
OVER SPRING LAKE
PORT CHARLOTTE, FLORIDA.

	REV	BIONS				
	no	date	by	description	• 1 114	
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NDARD DRAWING

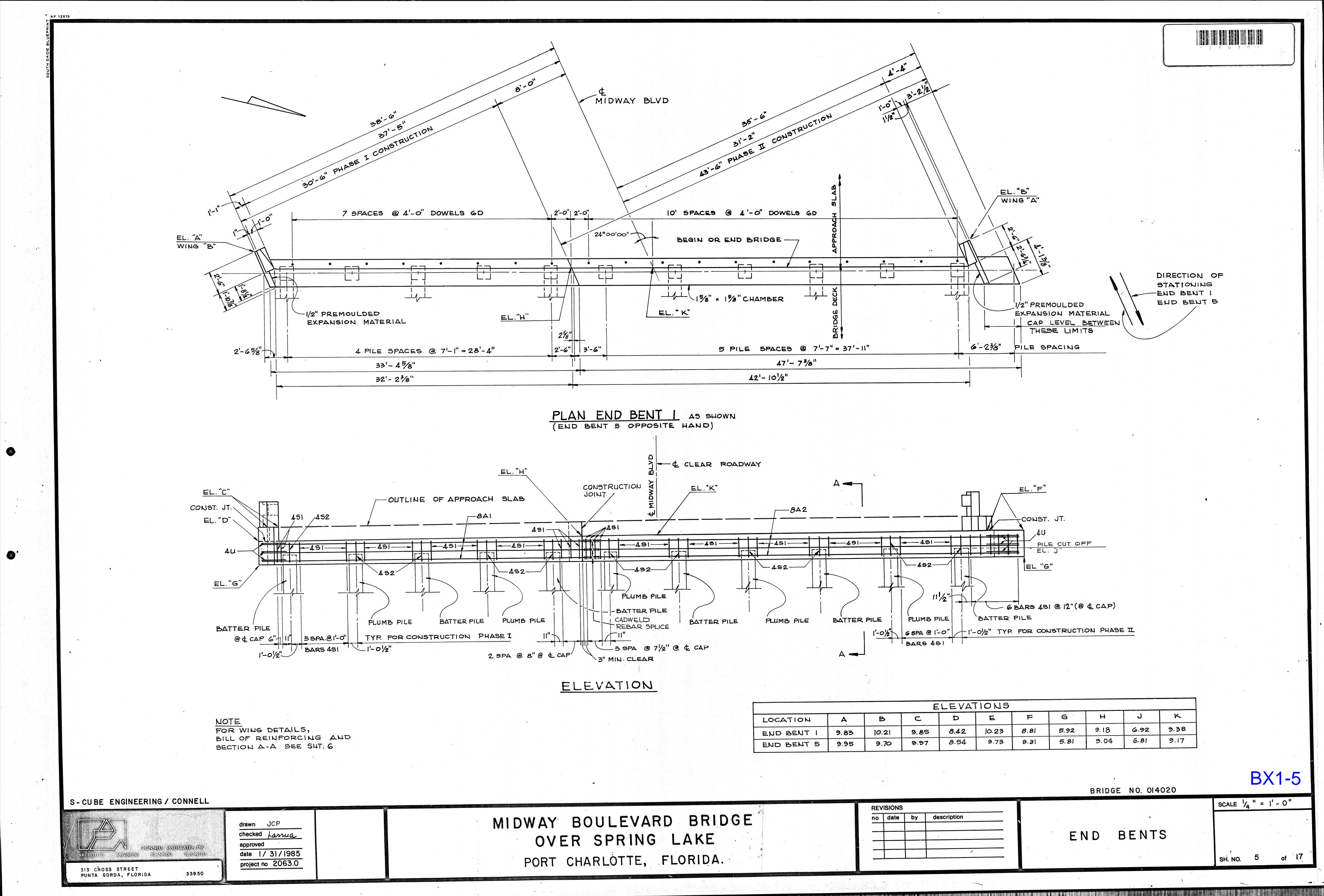
BRIDGE NO. 014020

STANDARD DRAWING

H. NO. 3 of 1

SCALE NONE

PITTSBURGH TESTING LABORATORY	PITTSBURGH TESTING LABORATORY	*L(**107-)* (REV.) 2/8/39 PITTSBURGH TESTING LABORATORY	TO STANFOLD THE ST
LOG OF BORING Some	LOG OF BORING Job No. NPI. 528	LOG OF BORING Job No. NPL 528 ent Connell Associates, Inc. Project Midway Bridge, Port Charlotte, Florida Location of Boring: Water Level 8'5" Time Immediate Date 9-11-84 Boring No. B-3 Date 9-11-84 Boring No. B-3 Date 9-11-84 Sheet of Type of Boring D 1586 Rig CME 55-3 Casing used HA Size 32 Drilling mud used No. Boring begun 11-9-84 Boring completed 11-12-84 Ground Elevation Existing referred to	STA 2+47 WATER WALVE STA. 3+25 STA. 4+85 STA. 4+85 STA. 6+111
Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths wash water lost, observed fluctuations in water level, notes on drilling ease, etc.	The state of the s	DESCRIPTION Soil type, color, texture, consistency, sampler driving notes, blows per foot on casing, depths wash water lost, observed fluctuations in water level, notes on drilling ease, etc.	EXIST. ASBESTOS X CEMENT WATER LINE XI 4+00
0-1 2/1 Very loose, brown sand with some shell fragments 102 1-2 2/1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0-1 /9	302 1-2 3/3	# MIDWAY BLVD. A5° BEND (TYP.) MIDWAY BLVD. BRIDGE OVER SPRING LAKE
4-5 1/1 5 5 106 5-6 1/1 5 6 1 1 1 1 1 1 1 1 1	205 4-5 9/12	4-5 11/8	# SROAD STA. 0+00 STA. NIEW # ELLICOT
108 7-8 2/2 8-9 2/2 110 9-10 3/3	8-9 /7 - 9 - 1	308 7-8 3/3	* CARBON STEEL PIPE MANUFACTURED IN ACCORDANCE
13-14 /2 Loose, light brown sand with shell fragments	13-14 /12	13-14 /6	WITH ASTM SPECS. A-139 - GRADE B, A-53 - GRADE B, AWWA C200.
115 14-15 4/7	215 14-15 45/28	315 14-15 9/10	12" WATER LINE A TELEPHONE CO AS MANUFI
18-19 /6	18-19 /1	18-19 /4	BY GRINN FIG. 271, APPROVE (TYP.)
22 - 23 - Medium, light gray sand 23-24 /5 - 24 - 24 - 24 - 24 - 24 - 24 - 24 - 2	2 2 3 5 2 4 7 7 5 7 7 10	23-24 /3 Loose, gray sand 23-24 /3 -2 5 -	SEE SHTS. 5 & 7 FOR DETAILS AND ELEVATIONS
125 24-25 6/12	225 24-25 7/10 2 5 = 2 6 = 2 7 = 2 7 = 2 8	27 - Medium, light gray sand	
28-29 /6	28-29 /0	7 28-29 /4	CAP DETAIL PIPE RELOCATION DETAI
32 - 33 - 33 - 34 /24 - 34 - 34 - 35 - 35 - 35 - 35 - 35 - 3	33-34 /1 34 35 34-35 1/3 35 3 35 3 34-35 1/3 35 3 35 3 35 35 35 35 35 35 35 35 35 3	33-34 /3	
36 = 37 = 37 = 38 = 38 = 38 = 38 = 38 = 38	36 37 38 38 38 38 38 38 38 38 38 38 38 38 38	38-39 /6 -39- Medium, light gray silty sand	NOTE: FOR BORING LOCATIONS SEE SHT 2
39-40 /10	39-40 /1 3/5	340 39-40 13/19 40 41 41 42 41	
43-44 /6 44-45 11/10 44 5	43-44 /4	43-44 /3 Loose, light gray silty sand 345 44-45 4/5 Loose, light gray silty sand	
48-49 3/4 Loose, gray silty sand	48-49 /10	48-49 /3 Loose, light gray silty sand	
150 49-50 3/4 5 0 = end of boring 50°	250 49-50 17/22 50 end of boring 50' 50' bottom of charmel 70 from surface of bridge	350 49-50 5/5 5 5 5 6 7 end of boring 50*	BRIDGE NO. 014020
S-CUBE ENGINEERING / CONNELL drawn checked Larrua	MIDWAY BOULEVAR OVER SPRING		BORINGS AND PIPE RELOCATION DETAILS
CONNELL ASSOCIATION INC. ARCHITECTS ENGINEERS PLANNERS SCIENTISTS 313 CROSS STREET PUNTA GORDA, FLORIDA 33950 approved date 1/31/1985 project no 2063.0	PORT CHARLOTTE,		SH. NO. 4

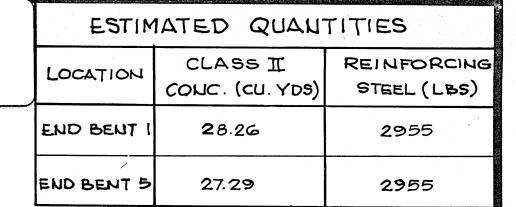




Approach Slab

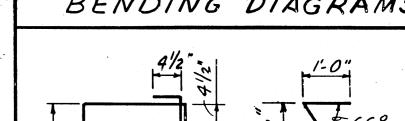
-3"cl. oll around

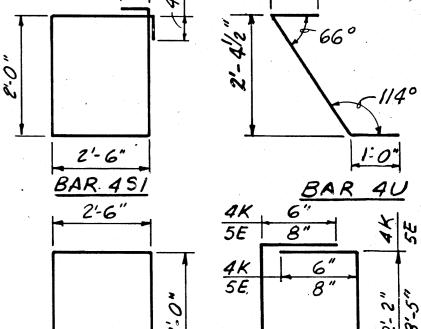
except top



MARK	NO.	LENGTH	BENDING
8AI	10	33-8"	Stroight
8A2	10	46'-10"	Straight
401	8	4'-4"	Stroight
4C2	4	2'-0"	Straight
4C3	8	3'-9"	Stroight
60	19	1'-6"	Straight
5F	18	3'-9"	Straight
4 J	12	2'-2"	straight
4 K	4	6'0"	See Bending
4 T	5	2'-6"	Straight
451	7 3	9'-9"	See Bending
452	1/	7:2"	See Bending
4 U	6	4'-8"	See Bending
5 <i>E</i>	10	8'- //"	See Bending
•			

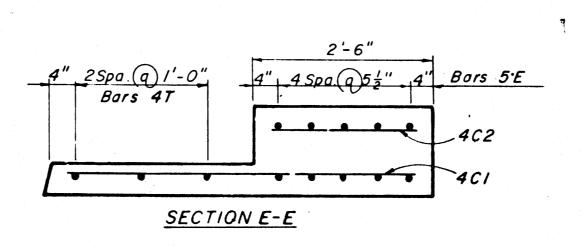
BENDING DIAGRAMS

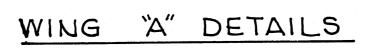




7/2" 4K 9". 5E BARS 4K & SE Note: All bar dimensions are out to out

VIEW D-D





ELEVATION

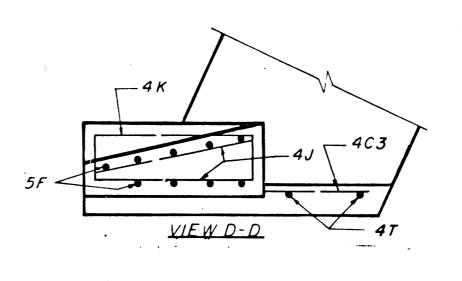
4 Spa (25 1/2 4")

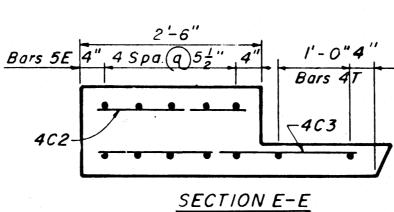
4" 2 Spa (a)1'-0"

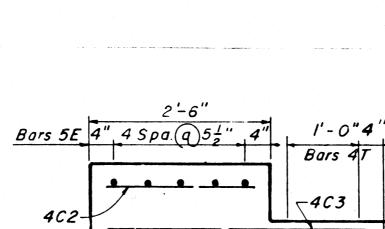
Elev"E"

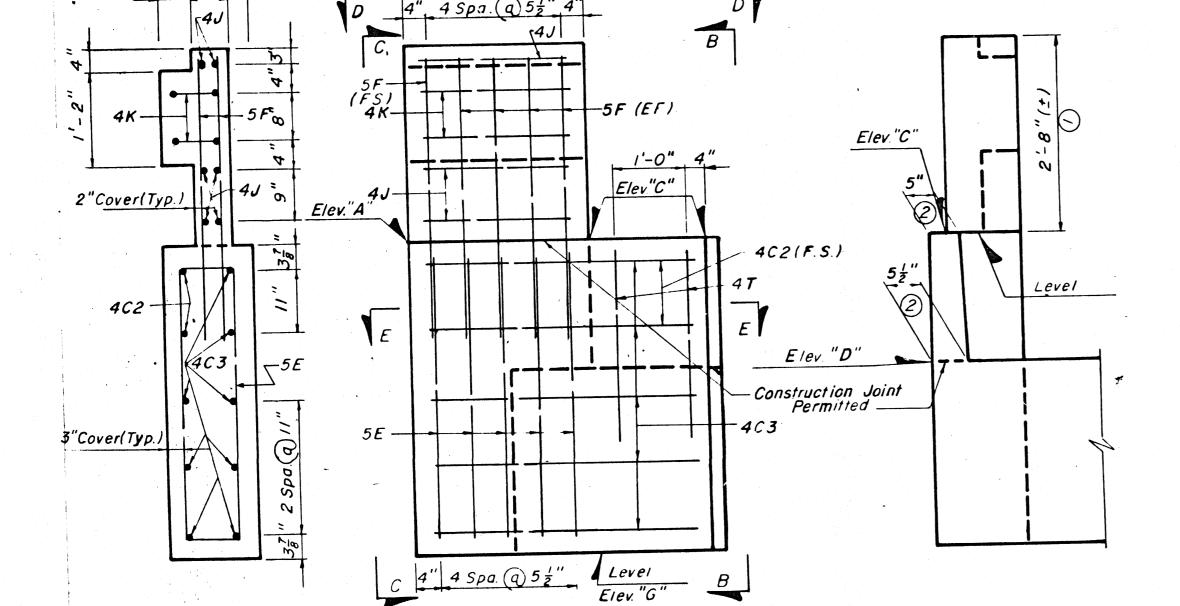
Level Elev "G"

-Construction
Joint Permitted









WING "B" DETAILS

ELEVATION

NOTES:

15/8 x 15/8" Chamfer_

Botter Piles 2" per ft. —

SUPERELEVATED.

DIMENSION SHOWN IS FOR NORMAL CROWN ROADWAY 0% GRADE. THIS DIMENSION SHALL BE ADJUSTED IN THE FIELD TO MATCH BRIDGE BARRIER CURB PROFILE FOR STRUCTURES ON GRADE OR

1'-6"

SECTION A-A

Bridge Deck

4" 3 Spa. @ 9/4" ± = 2'-4"

THIS DIMENSION SHALL BE ADJUSTED IN THE FIELD TO MATCH PRESTRESSED SLAB UNITS.

S- CUBE ENGINEERING / CONNELL

VIEW C-C

_w ⊘

Level

VIEW B-B

MIDWAY BOULEVARD BRIDGE OVER SPRING LAKE

REVISIONS no date by

END BENT SECTION AND WING DETAILS

BRIDGE NO. 014020

SCALE NONE

BX1-6

313 CROSS STREET

drawn JCPchecked Larrua approved date |/3|/1985 project no 2063.0

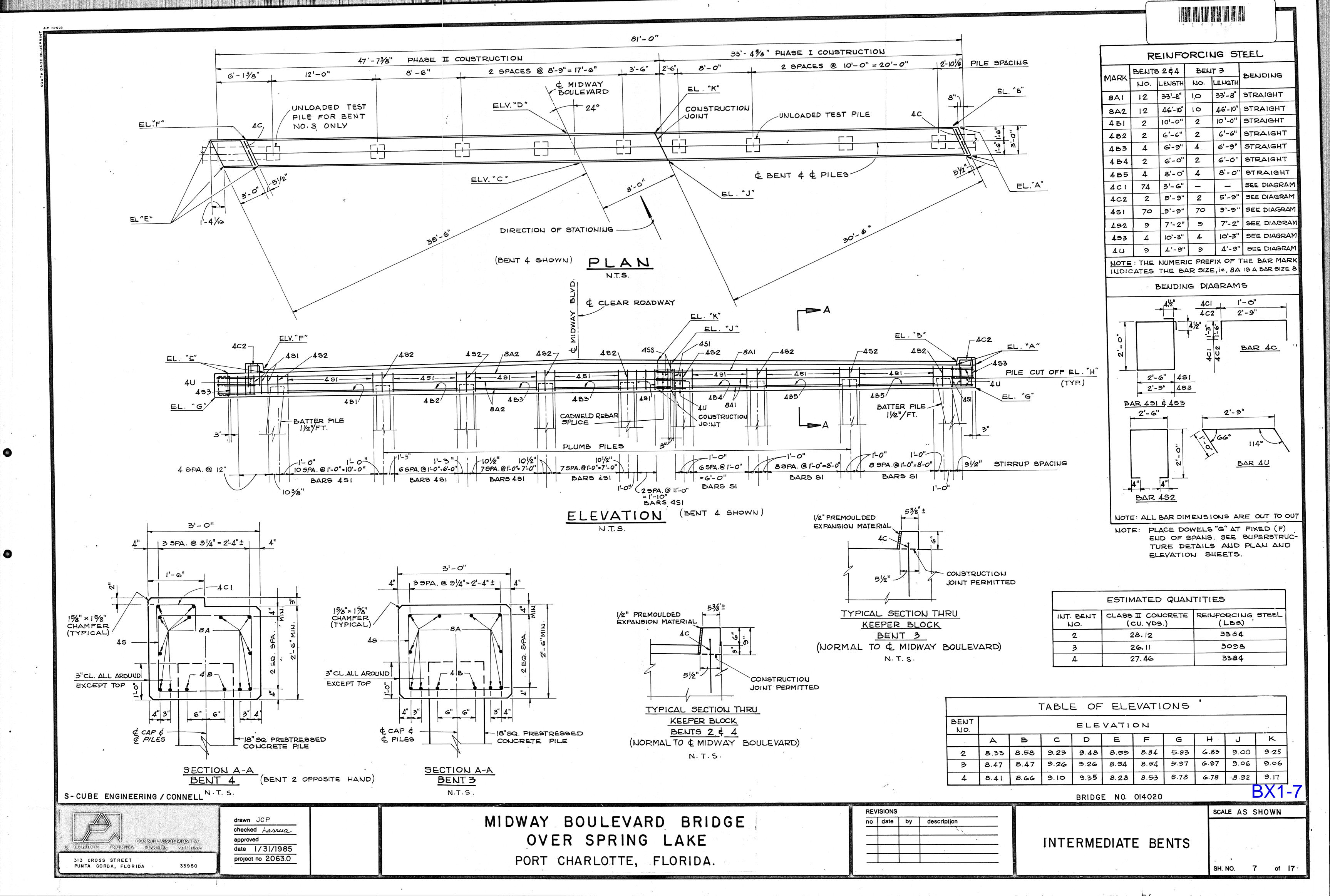
PORT CHARLOTTE, FLORIDA.

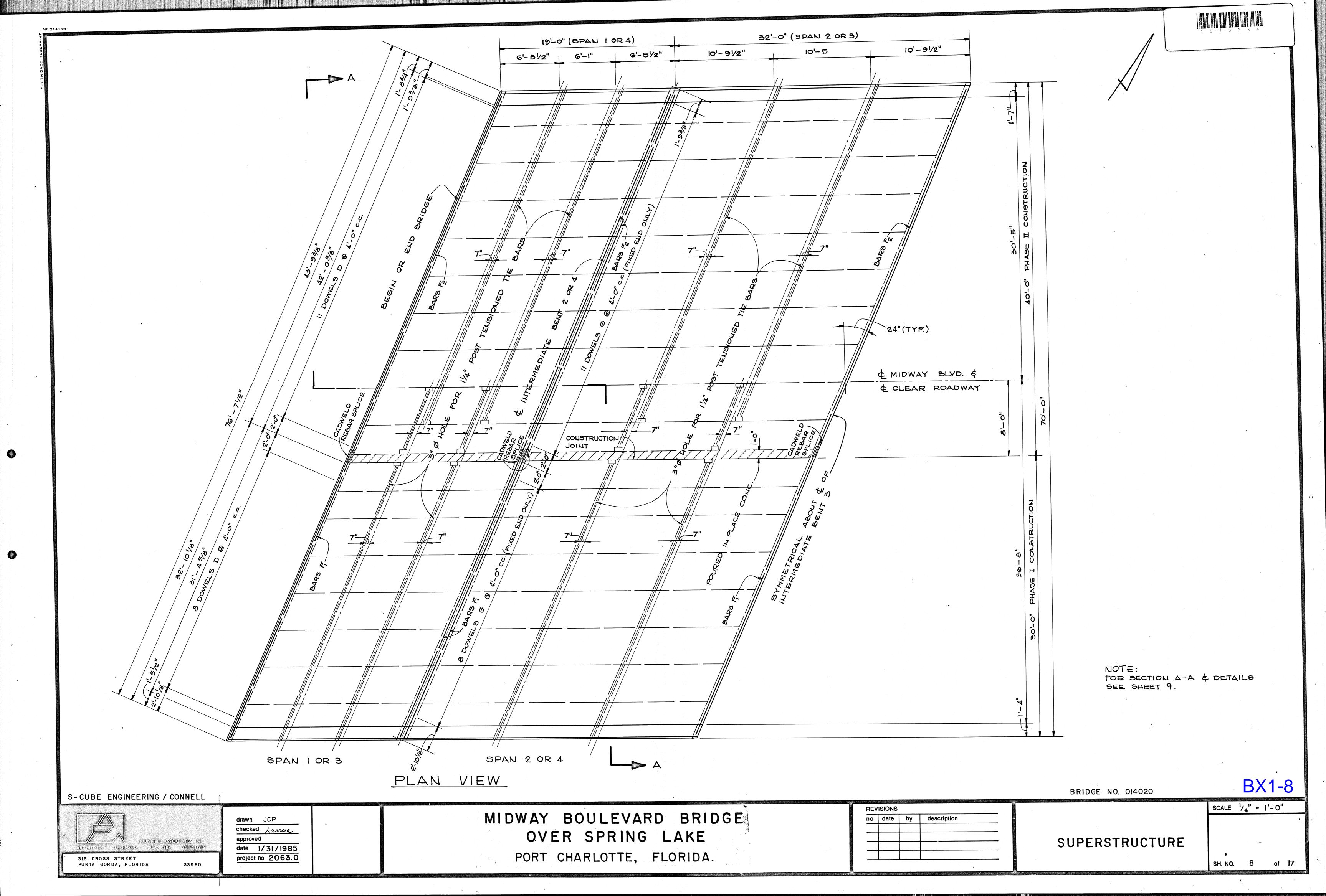
VIEW B-B

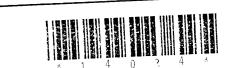
 $\frac{4J}{2"Cover(T_{yp.})}$

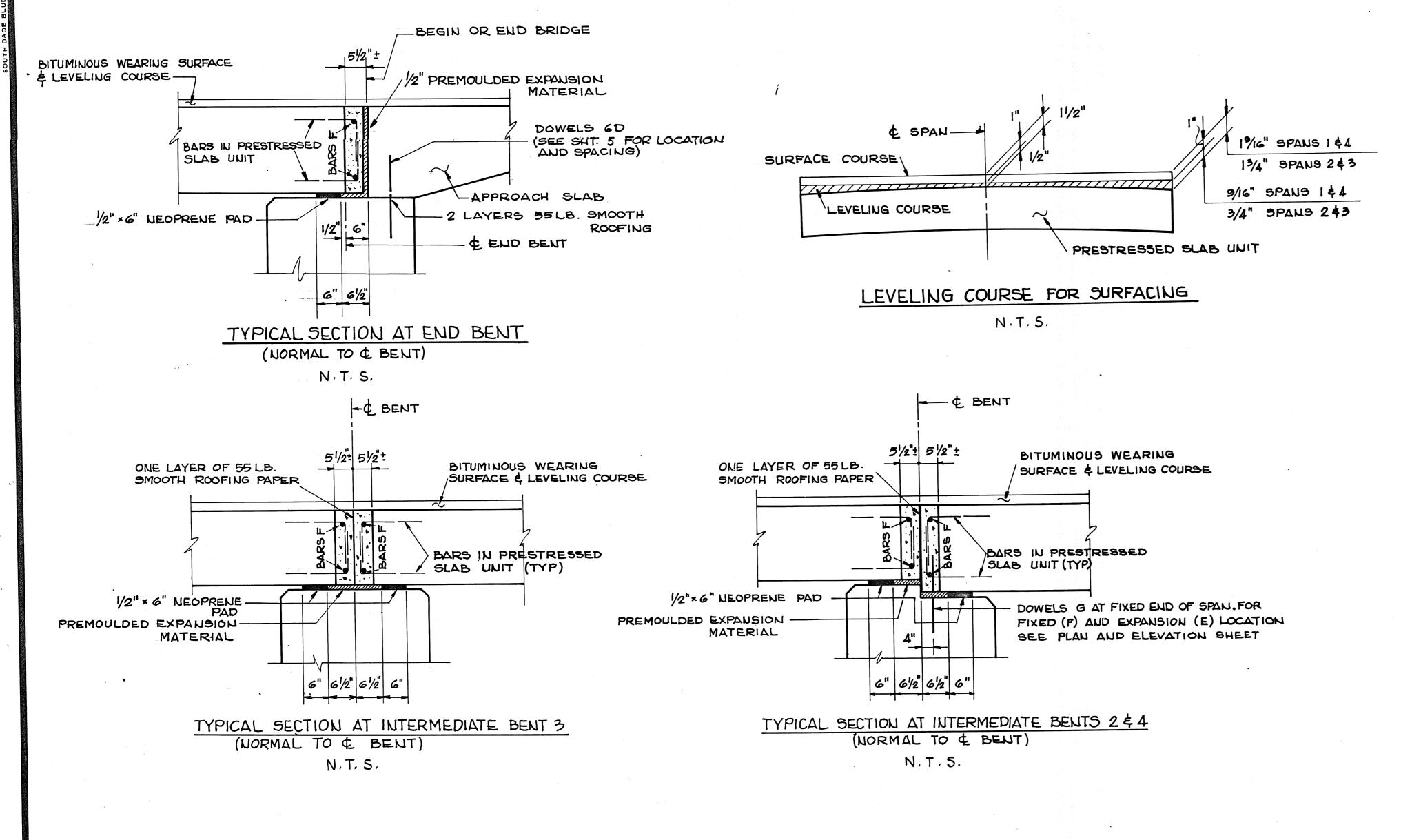
3"Cover(Typ.

VIEW C-C









32'-0"

11/2" MIN. ASPHALTIC CONCRETE SURFACE COURSE (TYPE II)

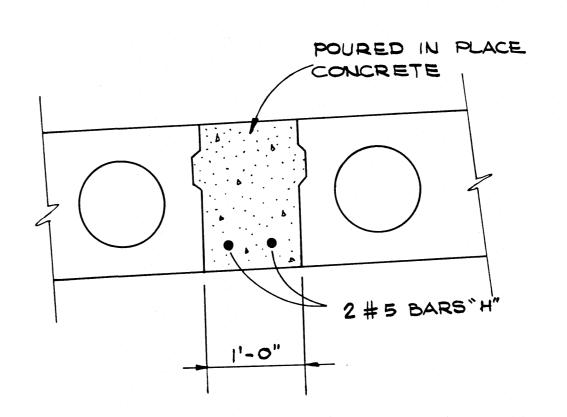
40'-0" PHASE I CONSTRUCTION

24'-0"

28'-0"

7 UNITS BI

PARTIAL END ELEVATION



DETAIL 1 N.T.S.

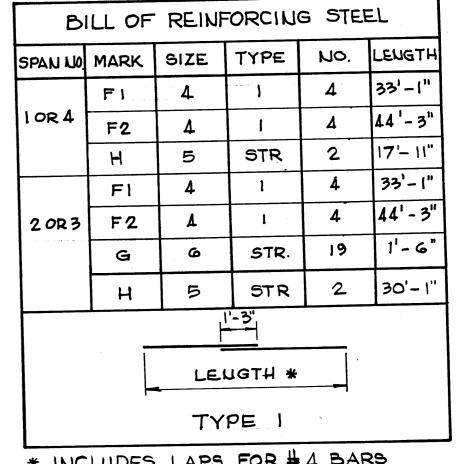
TWIST TOP CLOSED

- DOWEL

DOWEL DETAIL

N. T. S.

/ WRAP DOWEL WITH 2 LAYERS OF 55 LB SMOOTH ROOFING



* INCLUDES LAPS FOR #4 BARS MORE THAN 36'-0" LONG

ESTIMATED QUANTITIES				
SPAN	CLASS II COUC. (C.Y.)	REINFORCED STEEL (LBS)		
1 OR 4	3.94	243		
2 OR 3	5.63	313		

PRESTRESSED SLAB UNITS (L.F.) 48"×15" | 36"×15" 48"×18" | 36"×18" OR4 271.25 54.25 466.25 2 023

70'-0" 38'-0" 30'-0" PHASE I CONSTRUCTION 6'-5" 1'-3" 5'-0' SIDEWALK 1-3" 1" 24'-0" 7"- 2" 6" TYP. 20'-0" TEMPORARY BARRIER FOR PHASE II CONSTRUCTION FDOT STD. # 415 JE 48' WIDE CLEAR ROADWAY (NORMAL CROWN) 3" MIN. -1/4"/FT. IN PLACE CONC. BARRIER DOWELS (FOR NUMBER AND LOCATION SEE SHEET 7) CONCRETE FDOT STD. # 12670 (SEE DET. 1 THIS SHT.) 4'-0" 16'-0" 4'-0" 3'-0" 1'-0" 3'-0"

4 UNITS BI

PARTIAL SECTION THRU ROADWAY

TYPICAL SECTION A-A SCALE: 3/8 " = 1' - 0"

S-CUBE ENGINEERING / CONNELL

313 CROSS STREET PUNTA GORDA, FLORIDA

4'-0"

UNIT AZ

drawn HML/JCP checked Larrie date 1/31/1985 project no 2063.00

6'-5"

- 3"MIN.

FOOT STO. # 12931

33950

MIDWAY BOULEVARD BRIDGE OVER SPRING LAKE PORT CHARLOTTE, FLORIDA.

Unit C3 Unit C2 Unit Ci

REVISIONS no date by description

SUPERSTRUCTURE

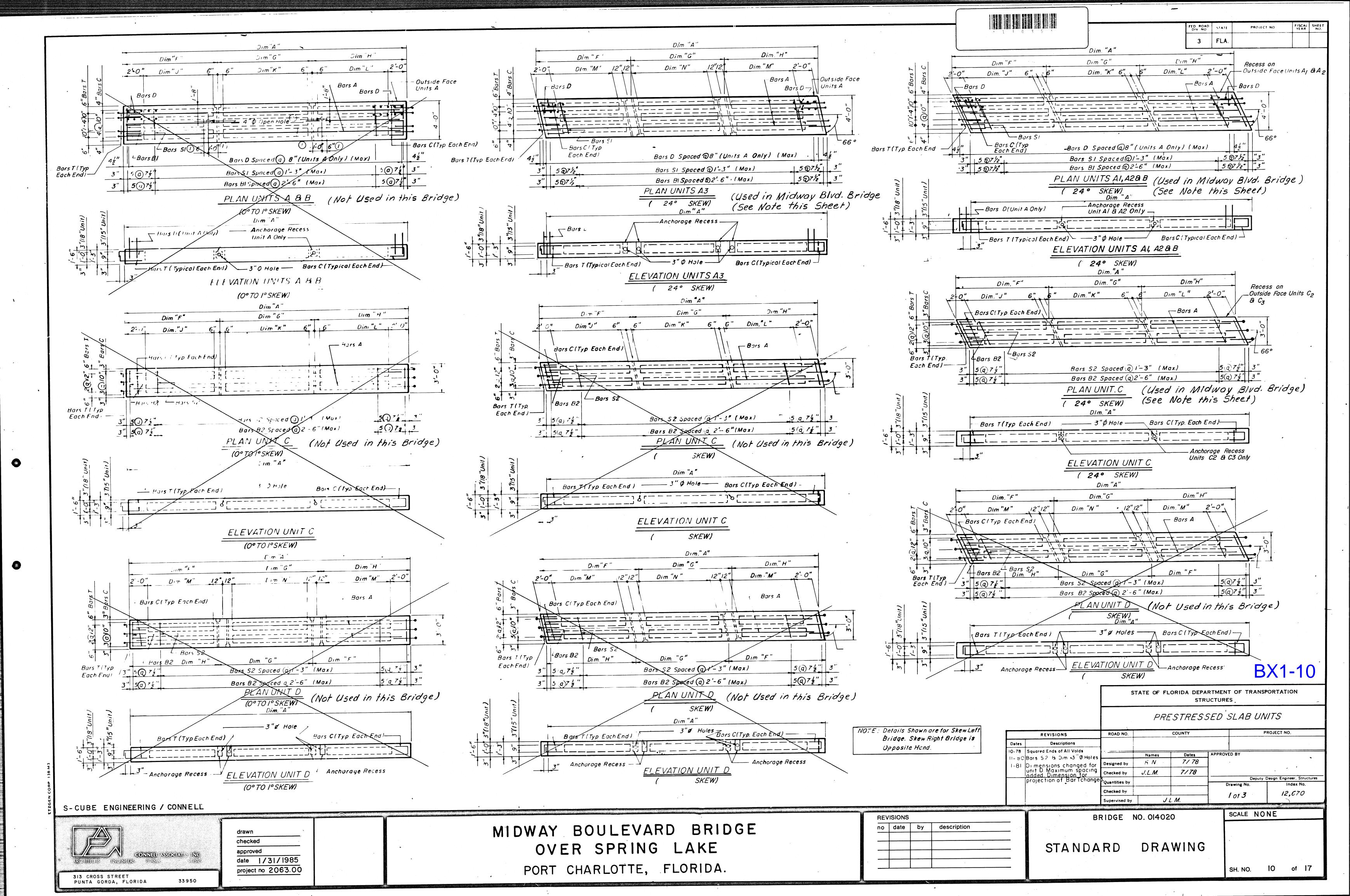
SECTION AND DETAILS

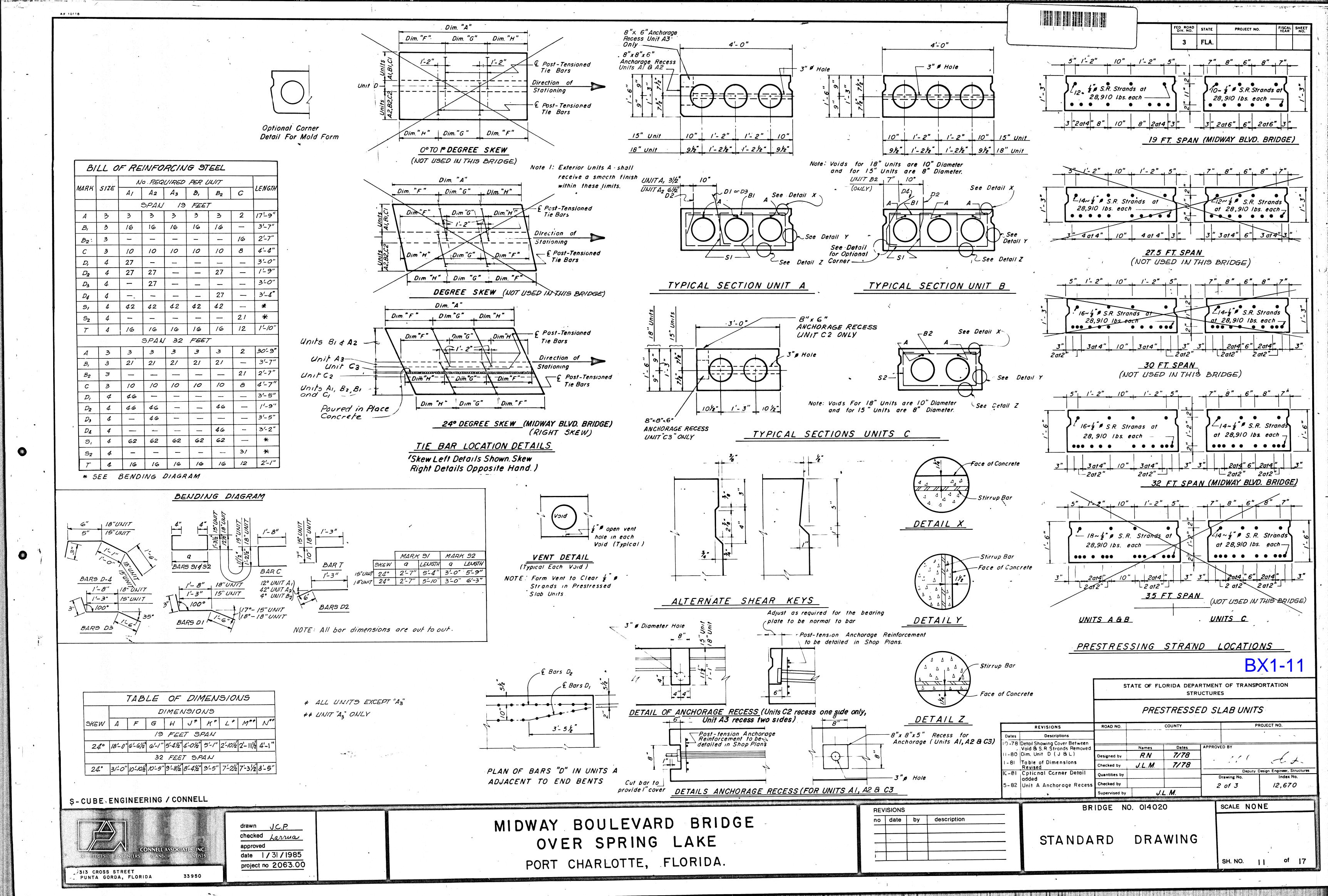
BRIDGE NO. 014020

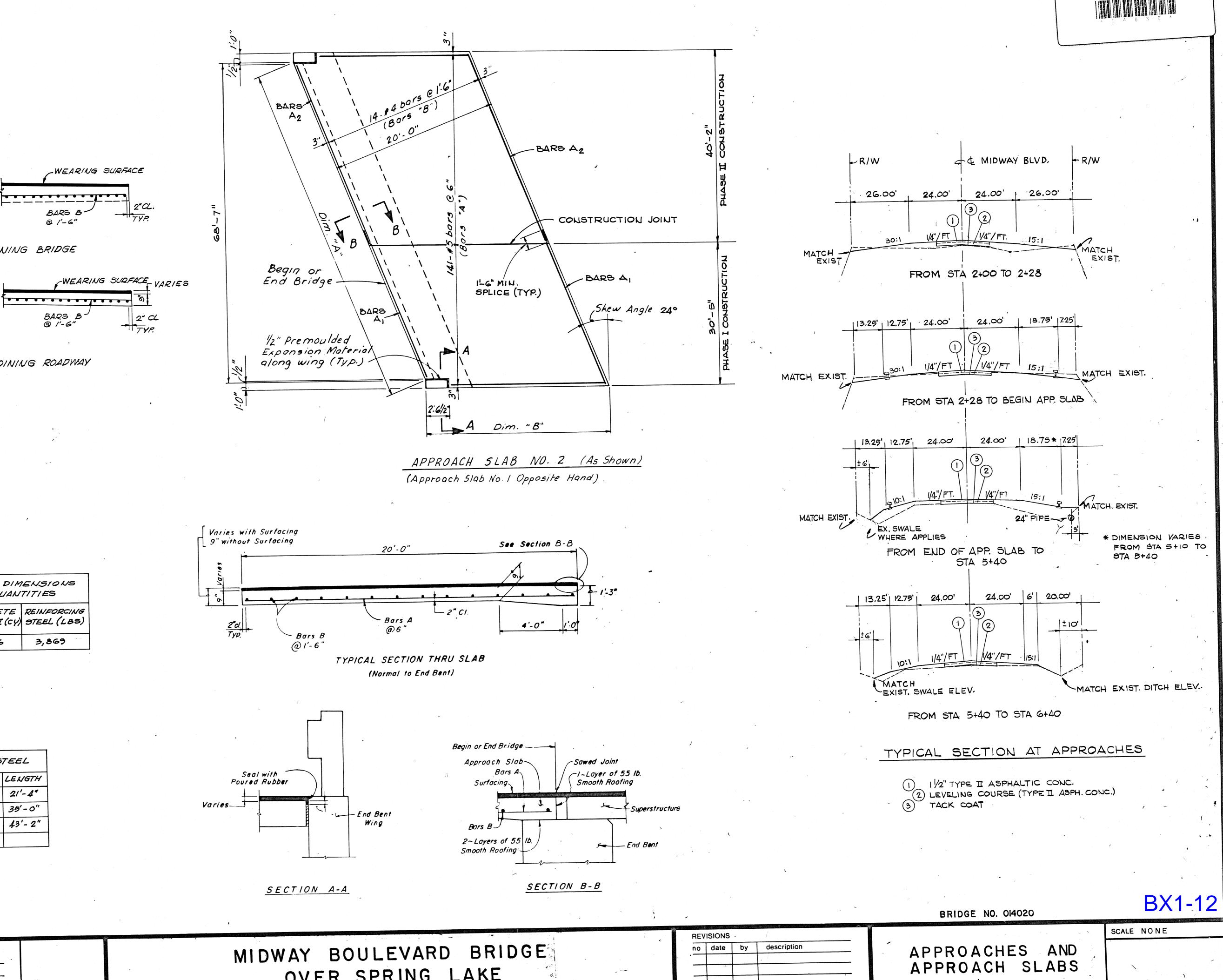
UNIT B2 UNIT AI

SCALE AS SHOWN

BX1-9







S-CUBE ENGINEERING / CONNELL

CONNELL ASSOCIATES, INC.
S PLANNERS SCIENTISTS 313 CROSS STREET PUNTA GORDA, FLORIDA 33950

PROFILE TO MATCH THAT

OF ADJOINING BRIDGE

PROFILE TO MATCH THAT OF ADJOINING BRIDGE

L 2" CI. MIN.

- 2" CL. MIN.

VIEW AT END ADJOINING BRIDGE

VIEW AT END ADJOINING ROADWAY

TABLE OF VARIABLE DIMENSIONS AND ESTIMATED QUANTITIES

DIMENSIONS CONCRETE REINFORCING

44.06

75'-07/8" 21'-103/4"

BILL OF REINFORCING STEEL

TYPE

STRAIGHT

STRAIGHT

STRAIGHT

SIZE

CLASS II (CY) STEEL (LBS)

LENGTH

21'-4"

35'-0"

43'- 2"

3,869

BARS B-@ 1'-6"

BARS AD

PROFILE TO MATCH -END BENT BACKWALL

checked Larria approved date | /3|/1985 project no 2063.0

OVER SPRING LAKE PORT CHARLOTTE, FLORIDA.

