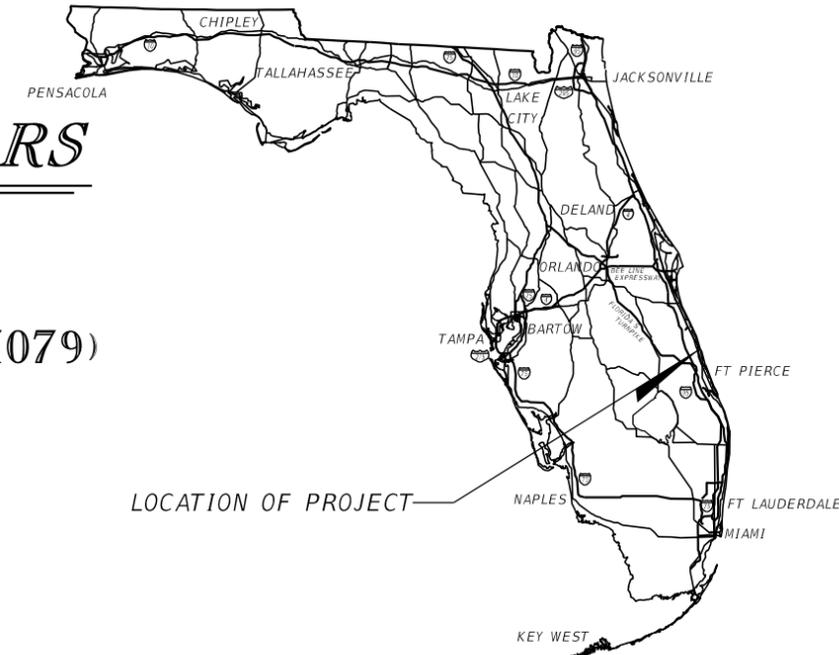


INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS

CONTRACT PLANS

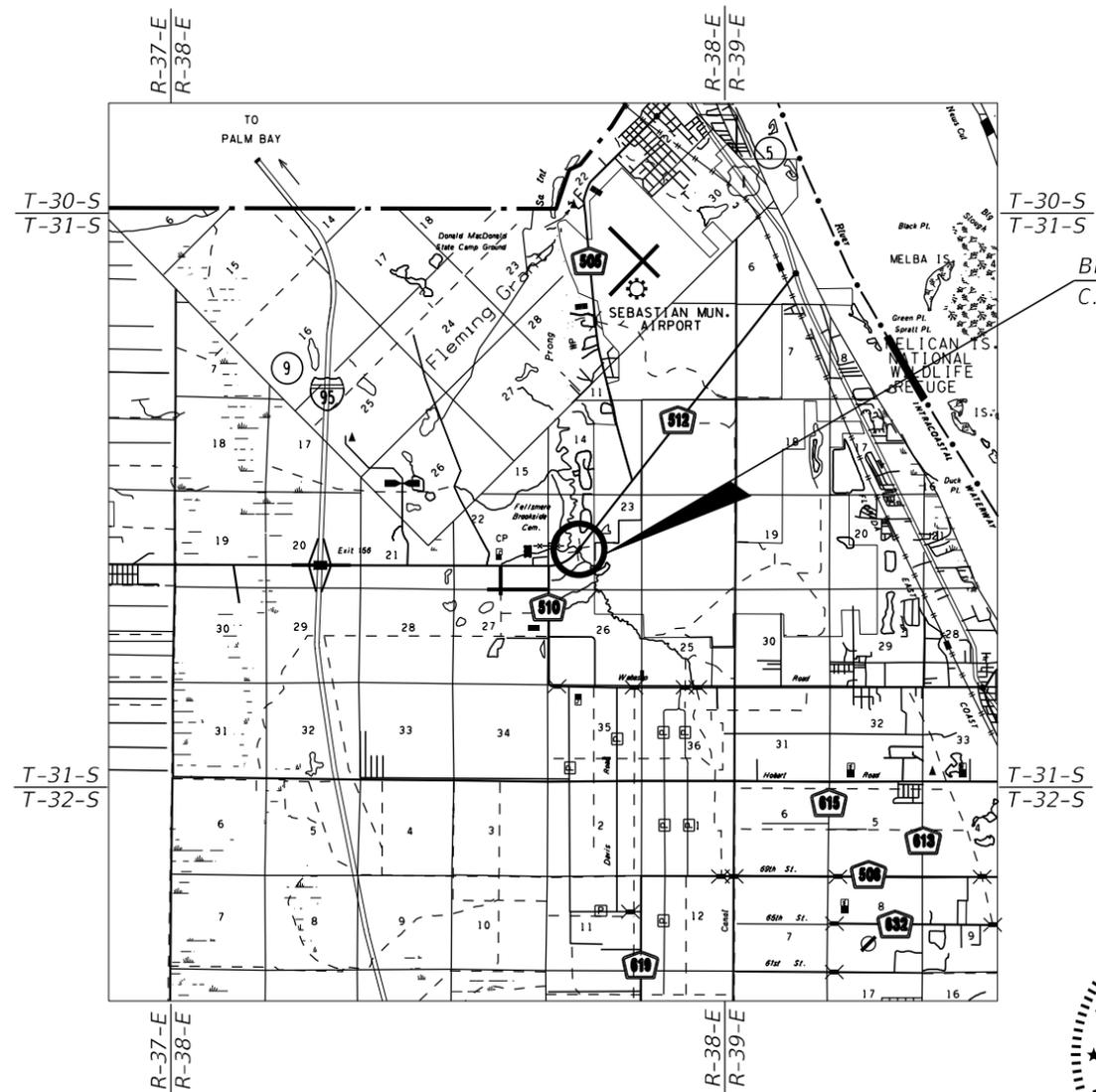
C.R. 512 BRIDGE REPAIRS (FDOT # 884078 & 884079)
IRC PROJECT No. IRC-1727



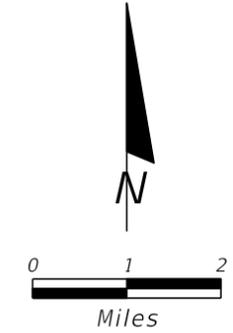
LOCATION OF PROJECT ——— NAPLES ——— FT. LAUDERDALE ——— MIAMI

INDEX OF STRUCTURES PLANS

SHEET NO.	SHEET DESCRIPTION
B-1	KEY SHEET
B-2	GENERAL NOTES
B-3	SUMMARY OF QUANTITIES
B-4	PLAN WITH WORK IDENTIFICATION
B-5	REPAIR DETAILS (1 OF 2)
B-6	REPAIR DETAILS (2 OF 2)
B-7	TECHNICAL SPECIAL PROVISIONS (TSP) - T401
B-8	MILLING AND RESURFACING DETAILS



BRIDGE LOCATION
C.R. 512 OVER ST. SEBASTIAN RIVER



PLANS PREPARED BY:

Kimley»Horn

1920 WEKIVA WAY, SUITE 200
WEST PALM BEACH, FL 33411
(561) 845-0665
PROJECT NUMBER: 044572054
CERTIFICATE OF AUTHORIZATION: 00000696

GOVERNING STANDARDS AND SPECIFICATION
FLORIDA DEPARTMENT OF TRANSPORTATION
FY 2019-20 STANDARD PLANS
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED JANUARY 2020.
AS AMENDED BY CONTRACT DOCUMENTS.

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

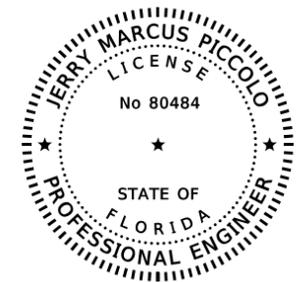
THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL.

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

STRUCTURES PLANS
ENGINEER OF RECORD: JERRY MARCUS PICCOLO

P.E. NO.: 80484



100% PLAN
SUBMITTAL
MAY 2020



DEPARTMENT OF PUBLIC WORKS
RICHARD B. SZPYRKA P.E., DIRECTOR

SHEET
NO.

B-1

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GENERAL NOTES

DESIGN SPECIFICATIONS

FDOT Structures Manual dated January 2019 and subsequent Structures Design Bulletin 18-01.

FDOT Design Manual dated January, 2019.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

Florida Department of Transportation, FY 2019-20 Standard Plans and revised Index Drawings as appended herein, and January 2020 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

MATERIALS

Reinforcing Steel: Grade 60 carbon steel per Specifications Section 931.

Concrete:

Concrete	Min. 28-day Compressive Strength (psi)	Location of Concrete in Structure
Class II (Bridge Deck)	4,500	Superstructure

Concrete Cover:

Concrete cover dimensions shown in the plans do not include placement and fabrication tolerances unless shown as "minimum cover". See Specifications Section 415 for allowable tolerances. All dimensions pertaining to the location of reinforcing steel are to centerline of bar except where clear dimension is noted to face of concrete.

PLAN DIMENSIONS

All dimensions in these plans are measured in feet either horizontally or vertically unless otherwise noted.

JOINTS IN CONCRETE

Construction joints will be permitted only at the locations indicated in the plans. Additional construction joints or alterations to those shown shall require approval of the Engineer.

EXISTING BRIDGE CONSTRUCTION CONSIDERATIONS

Dimension Verification: Unless otherwise noted, the dimensions, elevations and intersecting angles shown are based on field measurements and existing plans. It is the Contractor's responsibility to verify this data before beginning construction and notify the Engineer of any discrepancies.

EROSION CONTROL

Comply with FDOT Standard Specifications for Road and Bridge Construction Section 104 "Prevention, Control, and Abatement of Erosion and Water Pollution".

EXISTING ELEMENTS TO REPAIR

Exercise special care not to damage any elements of the structure that are to remain, including reinforcing steel. Repair or replace to the satisfaction of the Engineer, any elements that are to remain, which are damaged during construction at no additional cost to the County.

UTILITIES

1. Prior to commencement of any excavation, the Contractor shall comply with Florida Statute 556, underground facility damage prevention and safety.
2. The Contractor shall call Sunshine (1-800-432-4770) for field locations two (2) business days prior to commencement of any excavation. The Contractor shall also be responsible to contact any utility owner(s) that may not be a "sunshine" member.
3. The location of some existing utilities are shown in their approximate location; the exact location shall be determined by the Contractor during construction. Relocation of utilities shall be coordinated with the utility companies after identification of conflict by the Contractor. Contractor shall notify Engineer in advance before any relocation.
4. Existing utilities are to remain in place unless otherwise noted.
5. The Contractor is responsible for the protection of all utilities to remain in place.
6. The utility companies shall be notified by the Contractor two (2) business days in advance of any excavation involving their utilities so that company representative can be present.
7. The Contractor is to use caution when working in or around areas of overhead transmission lines, underground utilities, or near canal banks.

MAINTENANCE OF TRAFFIC

1. Maintenance of traffic for this project shall be in compliance with the applicable FDOT Standard Plan Indexes 102-600 Series and these documents; The Manual on Uniform Traffic Control Devices for Streets and Highways (U.S. Department of Transportation, FHWA), shall be followed in the design, application, installation, maintenance and removal of all traffic control devices, warning devices, and barriers necessary to protect the public and workmen from hazards within the project limits.
2. The Contractor shall be responsible for submitting a detailed Maintenance of Traffic Plan to Indian River County at Pre-Construction Meeting for approval.
3. At the end of each day, the FDOT Standard Plan Indexes 102-600 Series shoulder treatment must be followed.
4. At no time shall the Contractor close the road to through traffic without prior consent from Indian River County.
5. The Contractor must maintain access to all Water Control District maintenance personnel.
6. The Contractor shall not stage on private property or within Water Control District right-of-way without written approval from the owner.

SODDING

1. The Contractor will restore all areas disturbed by the construction to a condition equal to, or better than that now existing.

ABBREVIATIONS

PEJM - Premolded Expansion Joint Material

BRIDGE NOs. 884078 & 884079

REVISIONS						 JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 CERTIFICATE OF AUTHORIZATION: 00000696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		INDIAN RIVER COUNTY BRIDGE REPAIR	CR 512 BRIDGE REPAIRS (FDOT # 884078 & 884079)	B-2

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PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	Br. Nos. 884078 & 884079
101-1	Mobilization	LS	1
102-1	Maintenance of Traffic	LS	1
104-2A	Prevention, Control, and Abatement of Erosion and Water Pollution	LS	1
110-1-1	Clearing & Grubbing	LS	1
110-4-10	Removal of Existing Concrete	SY	16
120-1	Regular Excavation	CY	35
121-70	Flowable Fill	CY	10
327-70-8	Milling Exist Asph, 2 1/2" Avg Depth	SY	800
334-1-53	Superpave Asphaltic Concrete, Traffic C, SP-12.5, PG76-22	TN	66
337-7-82	Asphalt Concrete Friction Course, Traffic C, FC-9.5, PG76-22	TN	44
339-1	Miscellaneous Asphalt Pavement	TN	24
400-4-4	Concrete Class IV, Superstructure	CY	1
401-70-2	Restore Spalled Areas, Latex Modified Mortar-Styrene-Butadiene	CF	160
522-2	Concrete Sidewalk and Driveways, 6" Thick	SY	16
536-3-140	Guardrail Standard Panel (Replace)	LF	95
536-3-141	Guardrail Standard Panel (Replace) (Shop Bent)	LF	14
536-6	Pipe Rail for Guardrail	LF	27
536-12-605	Guardrail Repairs (Replace) (Steel Post in Asph.)	EA	1
536-12-611	Guardrail Repairs (Replace) (Reflectors)	LS	1
536-12-616	Guardrail Repairs (Replace) (Offset Block)	EA	18
570-1-2	Performance Turf, Sod	LS	1
706-3	Retro-Reflective Pavement Markers	LS	1
711-11-999	Thermoplastic, Standard	LS	1
713-1-999	Permenant Tape	LS	1
999-1	Record Drawings/As-Builts	LS	1

PAY ITEM NOTES

Pay Item 104-2A Prevention, Control, and Abatement of Erosion and Water Pollution
 This pay item shall also include all costs for the labor, equipment, and materials required to provide erosion and water pollution control measures in accordance with Standard Specification Section 104.

Pay Item 110-1-1 Clearing and Grubbing
 This pay item shall also include the cost of clearing all vegetation growing on the bridge structure including but not limited to: bridge deck, traffic railing, abutment caps, and bent caps. This pay item also includes the cost of removing all vegetation within the limits of the existing fabric formed concrete revetment. This pay item also includes the cost of sweeping or blowing off the bridge decks clean of dirt and debris. This pay item also include the cost of removing all debris from the existing drainage structures Northeast and Northwest of the bridges.

Pay Item 110-4-10 Removal of Existing Concrete
 This pay item shall also include the cost of temporarily removing the existing pipe guiderail on the outside of the existing sidewalk without damaging the existing pipe guiderail. This pay item shall also include all costs associated with the containment and offsite disposal of all removed concrete and debris. No debris will be permitted in the Sebastian River and surrounding river banks.

Pay Item 121-70 Flowable Fill
 This pay item shall also include all costs for the labor, equipment, and materials required to complete the work to backfill the voids under the existing fabric formed concrete revetment as described on sheet B-6.

Pay Item 327-70-8 Milling Existing Asph, 2 1/2" Avg. Depth
 This pay item shall also include the cost of reworking the existing base material in areas that have less than 2 1/2" of asphalt.

Pay Item 334-1-53 Superpave Asphaltic Concrete, Traffic C, SP-12.5, PG76-22
 This pay item shall also include the cost of furnishing and installing the tack coat.

Pay Item 337-7-82 Asphalt Concrete Friction Course, Traffic C, FC-9.5, PG76-22
 This pay item shall also include the cost of furnishing and installing the tack coat.

Pay Item 400-4-4 Concrete Class IV, Superstructure
 This pay item shall also include all cost for the labor, equipment, and materials required to complete the removal and recasting of the fractured diaphragm on the eastern side of Abutment 4 Westbound. This pay item shall also include all costs associated with the containment and offsite disposal of all removed concrete and debris. No debris will be permitted in the Sebastian River and surrounding river banks.

Pay Item 401-70-2 Restore Spalled Areas, Latex Modified Mortar Styrene-Butadiene
 This pay item shall also include the cost of all work associated with Diaphragm Spall Repairs as described on sheets B-5.

Pay Item 522-2 Concrete Sidewalk and Driveways, 6" Thick
 This pay item shall also include the cost of fiber mesh reinforcement. This pay item shall also include all costs associated with reinstalling the existing pipe guiderail on the new sidewalk in accordance with Standard Plans Index 515-070.

Pay Item 536-XX-XXX "All Guardrail Repairs"
 These pay items shall also include all cost associated with the removal and disposal of the guardrail components being replaced. These pay items shall also include the cost of all guardrail repairs in accordance the "Guardrail Notes" on sheet B-4.

Pay Item 706-3 Retro-Reflective Pavement Markers
 This pay item also includes the cost of furnishing and installing raised pavement markings in accordance with Standard Plans Index 706-001. The new raised pavement markings shall match the existing pavement markings in size, location, and color.

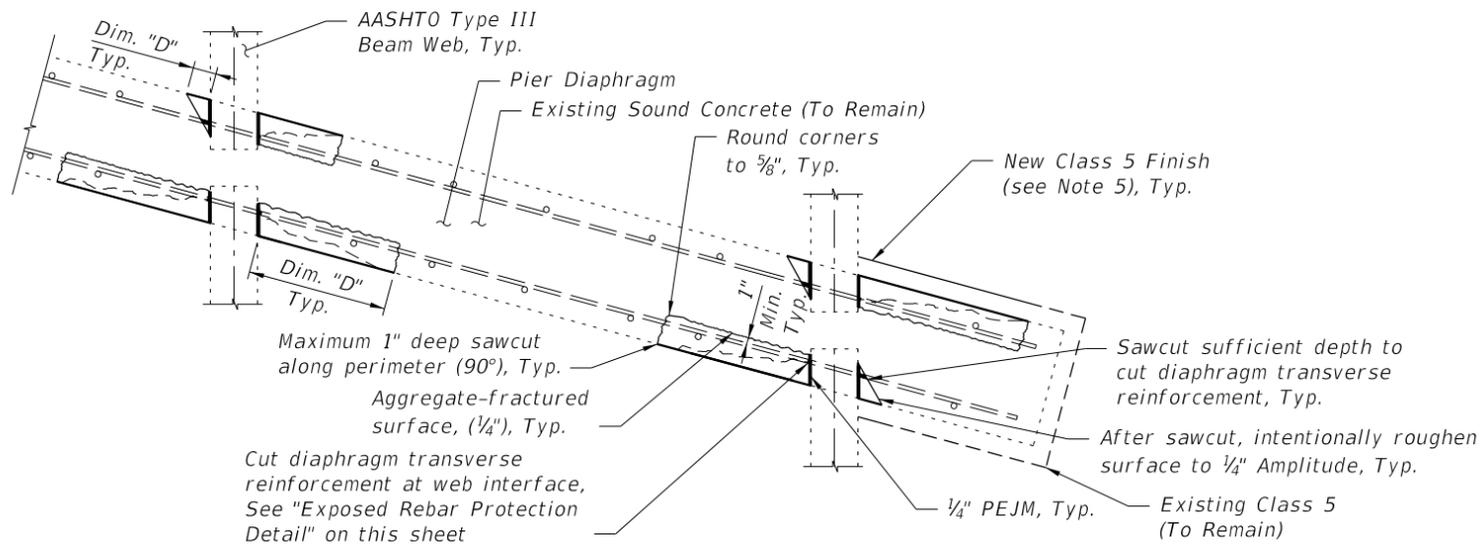
Pay Item 711-11-999 Thermoplastic, Standard
 This pay item includes the cost of furnishing and installing thermoplastic pavement markings in accordance with Standard Plan Index 711-001, Standard Specification Section 711, and the latest version of the Manual on Uniform Traffic Control Devices. The new pavement markings shall match the existing pavement markings in size, location, and color.

Pay Item 713-1-999 Permanent Tape
 This pay item includes the cost of furnishing and installing permanent tape pavement markings in accordance with Standard Plan Index 711-001, Standard Specification Section 713, and the latest version of the Manual on Uniform Traffic Control Devices. This pay item also includes the cost of removing the existing pavement markings from the existing bridge deck. The new pavement markings shall match the existing pavement markings in size, location, and color.

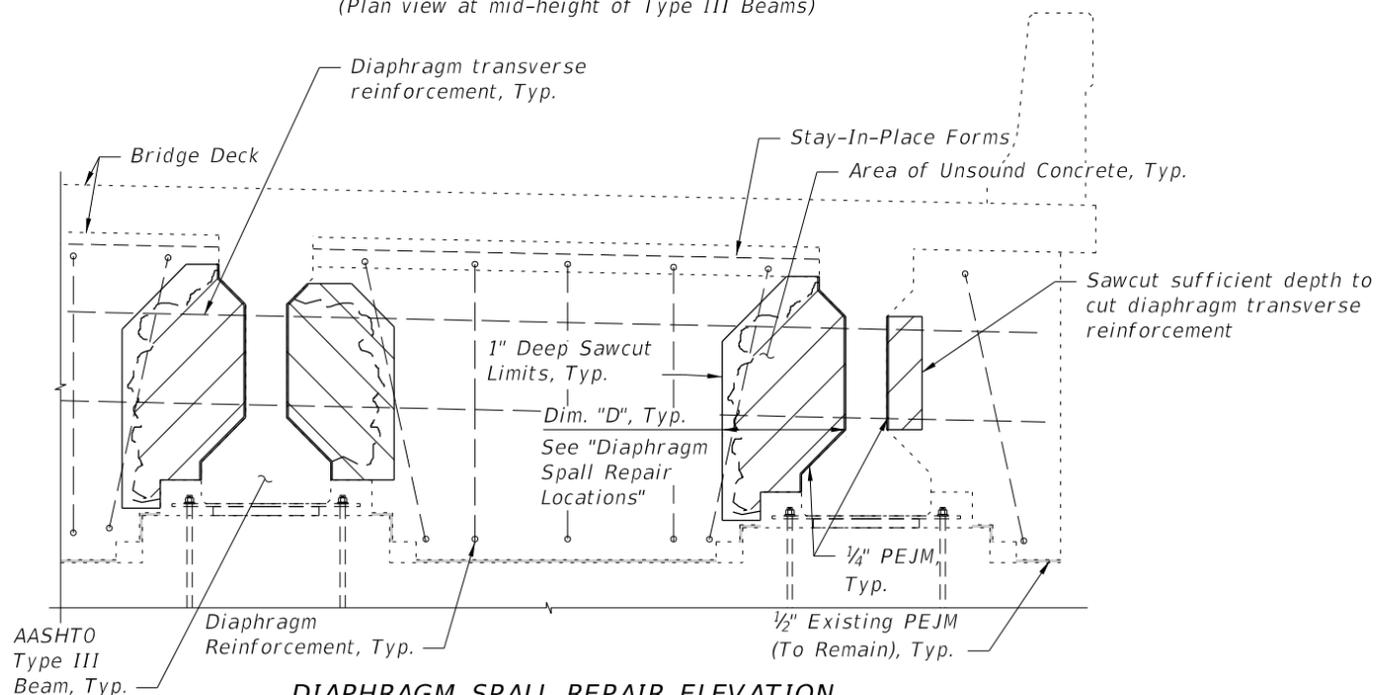
BRIDGE NOS. 884078 & 884079

REVISIONS						 JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 CERTIFICATE OF AUTHORIZATION: 00000696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	SUMMARY OF QUANTITIES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		INDIAN RIVER COUNTY BRIDGE REPAIR	CR 512 BRIDGE REPAIRS (FDOT # 884078 & 884079)	B-3
						Jerry.Piccolo	5/13/2020	11:42:44 AM	K:\WPB_Design\044572054_CR512_Bridge_Repair\044572054\struct\B1\B05

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DIAPHRAGM SPALL REPAIR PLAN
(Plan view at mid-height of Type III Beams)



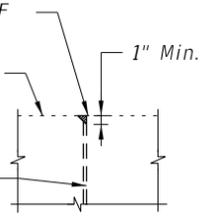
DIAPHRAGM SPALL REPAIR ELEVATION

LEGEND:
 - Indicates concrete to be removed
 - Indicates existing rebar to remain
 - Indicates existing PEJM to remain

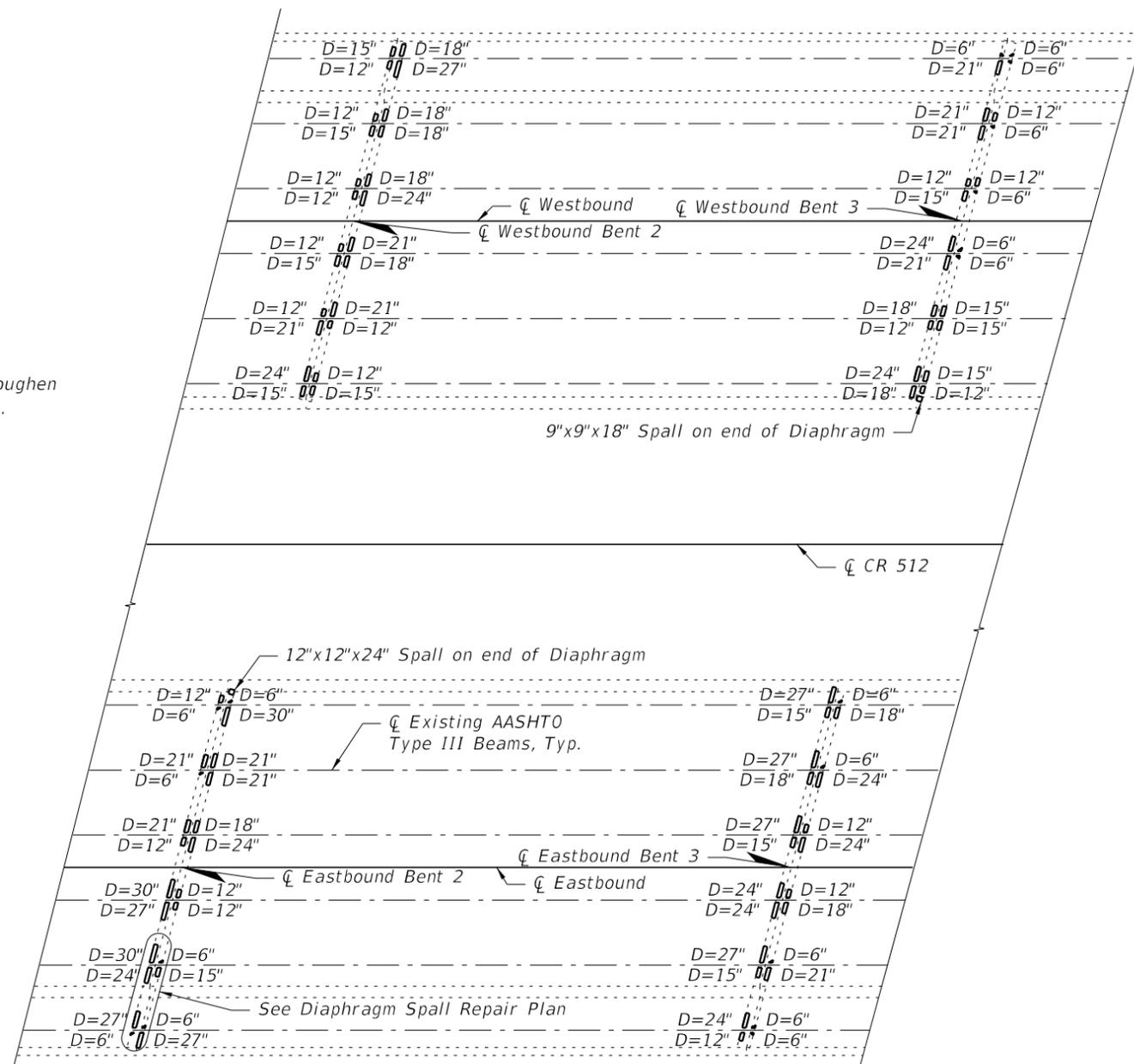
Remove concrete to the limits shown and fill with Epoxy Compound Type F

Existing AASHTO Type III beam web

Existing exposed rebar to be covered. (Cut 1\"/>



EXPOSED REBAR PROTECTION DETAIL



DIAPHRAGM SPALL REPAIR LOCATIONS

DIAPHRAGM SPALL REPAIR NOTES

1. Repair concrete spall areas in accordance with "Technical Special Provision (TSP) - T401", on "Technical Special Provision (TSP) - T401" sheet.
2. Exercise special care when removing unsound concrete to not damage existing reinforcing steel and other embedded anchorages or break the bond between the steel and sound concrete to remain.
3. Diaphragm Spall Repairs shall be paid for under pay item 401-70-2.
4. Any existing reinforcing steel damaged by the Contractor's actions in the process of removing unsound concrete or cleaning reinforcing steel shall be repaired to the satisfaction of the Engineer at the Contractor's expense.
5. For diaphragm repair where existing Class 5 finish is present, the Contractor shall use a Class 5 finish over the repair area. The color shall match existing.
6. The Contractor shall contain all debris resulting from the Diaphragm Spall Repair process and dispose offsite. No debris will be permitted in the Sebastian River or the adjacent river banks.

BRIDGE NOS. 884078 & 884079

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn

JERRY MARCUS PICCOLO, P.E.
 P.E. LICENSE NUMBER 80484
 1920 WEKIVA WAY, SUITE 200
 WEST PALM BEACH, FL 33411
 (561) 845-0665
 CERTIFICATE OF AUTHORIZATION: 00000696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS

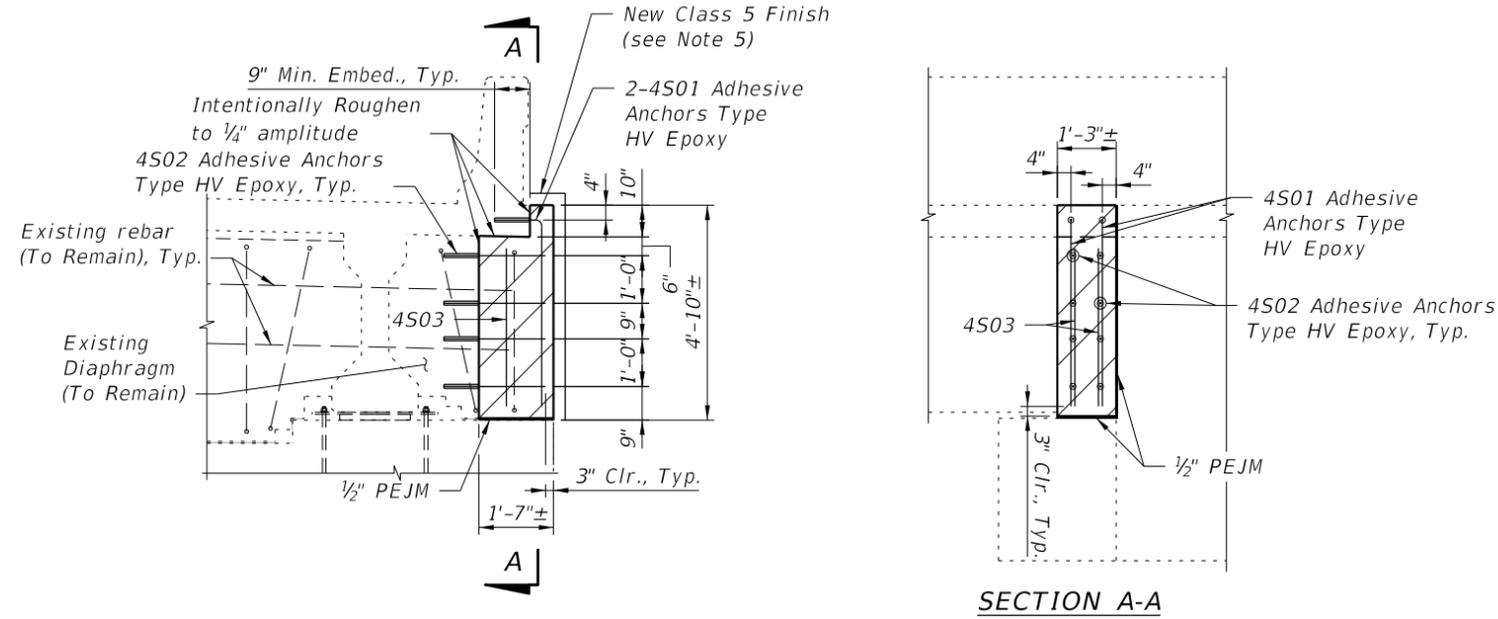
INDIAN RIVER COUNTY
 BRIDGE REPAIR

REPAIR DETAILS (1 OF 2)

CR 512 BRIDGE REPAIRS
 (FDOT # 884078 & 884079)

SHEET NO.
 B-5

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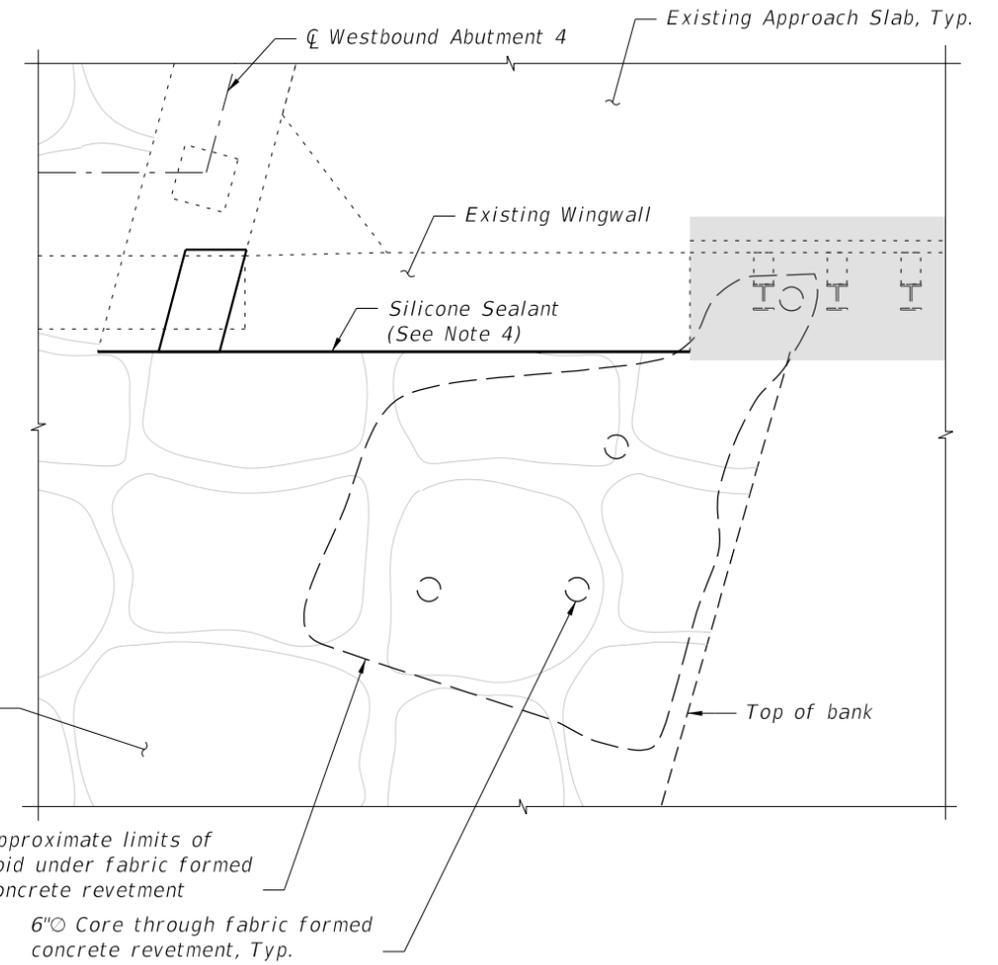
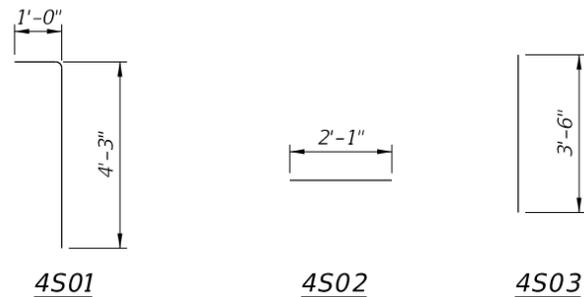
FRACTURED DIAPHRAGM ELEVATION

SECTION A-A

LEGEND:
 - Indicates removal of existing concrete
 - Indicates existing rebar to remain

FRACTURED DIAPHRAGM REPAIR NOTES

1. Repair material shall be Class II Substructure Concrete.
2. Clean existing rebar to remain free of all rust and corrosion products including oil, dirt, concrete fragments, laitance, loose scale, and other coatings of any character that would destroy or inhibit the bond with the new concrete.
3. All work associated with Fractured Diaphragm Repair shall be paid for under Pay Item 400-4-4.
4. Any existing reinforcing steel damaged by the Contractor's actions in the process of removing unsound concrete or cleaning reinforcing steel shall be repaired to the satisfaction of the Engineer at the Contractor's expense.
5. For fractured diaphragm repair, the Contractor shall use a Class 5 finish over the repair area. The color shall match existing. Class 5 finish shall be paid for under Pay Item 400-4-4.
6. The Contractor shall contain all debris resulting from the Fractured Diaphragm Repair process and dispose offsite. No debris will be permitted in the Sebastian River or the adjacent river banks.



PLAN - BACKFILL VOID UNDER EXISTING FABRIC FORMED CONCRETE REVETMENT

Void adjacent to Westbound Abutment 4 shown, void at Westbound Abutment 1 similar

BACKFILL VOID UNDER EXISTING FABRIC FORMED CONCRETE REVETMENT NOTES

1. Core 6" holes through the existing fabric formed concrete revetment. Number and location of cores to be determined by Contractor.
2. Back fill under fabric formed concrete revetment by pumping excavatable flowable fill through the cores through concrete fabric formed revetment.
3. Fill core holes in fabric formed concrete revetment with non-shrink grout in accordance with Specification Section 934.
4. At the joints between the wingwall and the fabric formed concrete revetment, seal the joint using a Type D silicone sealant material in accordance with Specification Section 932. This repair occurs at all 8 wingwall locations.
5. All work associated with backfilling under the existing fabric formed concrete revetment shall be paid for under Pay Item 121-70.

BRIDGE NOS. 884078 & 884079

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Kimley»Horn
 JERRY MARCUS PICCOLO, P.E.
 P.E. LICENSE NUMBER 80484
 1920 WEKIVA WAY, SUITE 200
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 (561) 845-0665
 CERTIFICATE OF AUTHORIZATION: 00000696

INDIAN RIVER COUNTY
 BOARD OF COUNTY COMMISSIONERS
 INDIAN RIVER COUNTY
 BRIDGE REPAIR

REPAIR DETAILS (2 OF 2)
 CR 512 BRIDGE REPAIRS
 (FDOT # 884078 & 884079)

SHEET NO.
 B-6

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TECHNICAL SPECIAL PROVISION (TSP) - T401

T401-1 DESCRIPTION

Replace deteriorated concrete by placing new Polymer Modified Portland Cement Mortar as specified in this Section and in accordance with the manufacturer's recommendations. Perform surface preparation and application to all areas as shown on the plans or as directed by the Engineer. No concrete removal will be performed without the Engineer's approval.

T401-2 MATERIALS

Mortar/concrete will be a polymer/latex modified-silica fume enhanced mortar/concrete suitable for pumping, unless otherwise required in the Contract Documents. The selected material will achieve a minimum compressive strength of 3,000 psi at three days, 6,500 psi at 28 days and a chloride ion permeability (AASHTO T-277) of less than 600 Coulombs.

For horizontal or vertical spalls with a minimum depth of 1 inch, use repair mortar that includes an aggregate in accordance with the manufacturer's recommendations. For spalls near the tidal zone that may be submerged during cure, add anti-washout admixture. For horizontal or vertical spalls less than 1 inch deep, hand-apply repair mortar in accordance with manufacturer's recommendations.

Provide proposed repair material and method of application, including manufacturer's technical specifications and formulation. Do not place patch materials in lifts. For vertical and overhead applications, place the material using form and pump methods unless otherwise approved based on specific condition of deficiencies. For horizontal applications, place the material using form and pour methods unless otherwise approved based on specific condition of deficiencies.

Materials will be applied in accordance with this Technical Special Provision and manufacturer's recommendations.

T401-3 SURFACE PREPARATION

Remove deteriorated concrete to sound material (or limits described on the plans) by scarification or by chipping with light duty pneumatic or electric concrete chippers (30 lbs or less in general, 15 lbs or less adjacent to prestressing strands, reinforcing steel, and structural limits of construction). Remove concrete that is contaminated with grease or oil.

Provide an aggregate-fractured surface with a minimum surface profile amplitude of 1/4 inch by use of a scabbler or other appropriate means.

Blast clean all reinforcing bars exposed after concrete removal in accordance with SSPC SP-10 "Near-White Blast Cleaning." Replace bars that have lost 25% or more of their original diameter with new bars spliced in place within the original cover, lapping rebar to develop the full strength of the bar as detailed on the plans and, if necessary, providing additional chipping. Dual bars of equivalent or greater section may be used.

Where the bond between existing concrete and reinforcing steel has been destroyed, or where the steel is exposed, remove the concrete adjacent to the bar to a depth that will permit modified concrete to bond to the entire periphery of the exposed bar. A clearance of 3/4 inches to 1 inch behind the bar is required for this purpose. Prevent cutting, stretching, or damaging of exposed reinforcing steel. Any reinforcement damaged during this operation shall be repaired or replaced by the Contractor at no additional cost.

Blast clean existing concrete surfaces that will be in contact with freshly placed repair material and clean to remove loose material and dust immediately before application of repair material.

T401-4 MIXING

Provide a Mix Plan for quantities of bag mix in excess of 1 cubic yard at a single location for the Engineer's approval including: manufacturer's specifications, method of mixing, means of application, and placement procedure to provide a homogenous pour free of cold joints. Use clean mixers and accurately proportioned ingredients. Mix the materials at the site. Ensure that the material, as discharged from the mixer, is uniform in composition and consistency.

T401-5 PLACING AND FINISHING

T401-5.1 Typical Spall Repair: A concrete bonding agent, compatible with the repair material and approved, will be applied to the exposed reinforcing steel before the placement of new repair material, and, if recommended by the material manufacturer, to the existing concrete. The compound will be applied and cured in accordance with approved manufacturer's instructions. The bonding agent will contain corrosion inhibitors. Provide measures for dewatering areas near the waterline, or provide alternate suitable repair materials for use underwater.

Repair areas of unsound concrete with the following modifications for spalls greater than 1 inch deep. Cut the upper perimeter of sound concrete to an angle sloping slightly upward to avoid entrapping air and water. Form area to be repaired to original neat lines. Forms will withstand the anticipated head pressure of the repair material and a minimum pressure of 10 psi. Place formwork and formwork supports by stainless steel inserts where required. Stainless steel inserts shall be located in sound concrete and may remain in place. Stainless steel inserts to remain in place will be recessed and patched.

The Contractor will employ a qualified Specialty Engineer to design all forming systems (including method of support and attachment). Prior to placement of formwork, submit detailed plans and design calculations for approval which have been signed and sealed by a qualified Specialty Engineer.

Apply form release agent, compatible to the repair material, to the interior surfaces of form. Pump material into forms with proper venting to ensure complete filling of voids, starting with a port at the bottom of the form. Perform external form vibration as necessary to insure proper consolidation. Cap vents when steady flow of material is ensured then fill until an immediate increase of 3 to 5 psi is detected. See plans for additional details. At the Engineer's discretion, gravity fed pours may be allowed in some cases for uniform deficiency shapes where quality control can be assured after trial installations.

When the depth of concrete removal exceeds 2", install welded wire fabric and adhesive hooks, as detailed on the plans.

Match repair surface to surrounding concrete surfaces. All exposed edges will be chamfered 3/4 inches unless otherwise noted or directed by the Engineer. Provide V-grooves, construction joints, and drip notches to match any existing. Open construction joints are not permitted. Cure as required to prevent shrinkage cracking.

T401-6 QUALITY CONTROL

Include the work under this Technical Special Provision in the Contractor Quality Control General Requirements set forth in Section 105.

The Contractor will secure the services of a manufacturer representative to visit the construction site to train inspection and contractor personnel in the application of the polymer-modified mortar/concrete repair system prior to application. The representative will also observe initial application and testing to confirm that application is performed in accordance with the manufacturer instructions. At a minimum, manufacturer representative will be available to the Contractor and the Engineer for technical advice and inspection of the application during the duration of polymer-modified mortar/concrete repairs. Upon completion of the project, the manufacturer will provide a notarized statement indicating that the material has been applied as per manufacturer requirements.

T401-7 LIMITATIONS

Make 4 to 6 extra test cylinders (as requested by the Engineer) and test for compressive strength gain determinations. The Engineer will determine the time of testing. Cure test cylinders in air for the full curing period required before testing. Do not place repair material at ambient temperatures below 45°F, or above 85°F, or more stringent temperature ranges provided by the manufacturer unless adequate protection is provided against adverse effects of extreme temperature conditions.

Coarse aggregate to extend repair material (when bagged mix is used) will be maintained at a clean, dry, location where protected from the elements to avoid material contamination. Quantity of aggregate for grout extension will be as recommended by material manufacturer. Use either prepackaged coarse aggregate (included within the repair material bag mix) or from a Department approved source.

T401-8 METHOD OF MEASUREMENT

The quantity to be paid for will be the volume of Latex Modified Mortar, Styrene-Butadiene in cubic feet authorized, furnished, installed, and accepted to restore spalled areas. The method used in determining the volume will be the surface area in square feet multiplied by the average depth of such areas.

T401-8 METHOD OF MEASUREMENT

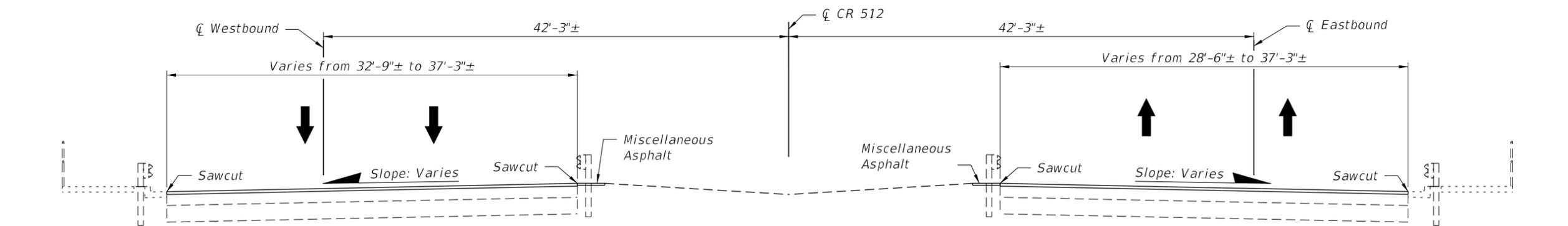
Price and payment will be full compensation for all work specified in this Technical Special Provision.

Pay Item No. 401 70 2 Restore Spalled Areas, Latex Modified Mortar-Styrene-Butadiene per cubic foot.

BRIDGE NOs. 884078 & 884079

REVISIONS						 JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 CERTIFICATE OF AUTHORIZATION: 00000696	INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	INDIAN RIVER COUNTY BRIDGE REPAIR	TECHNICAL SPECIAL PROVISION (TSP) - T401 CR 512 BRIDGE REPAIRS (FDOT # 884078 & 884079)	SHEET NO. B-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					

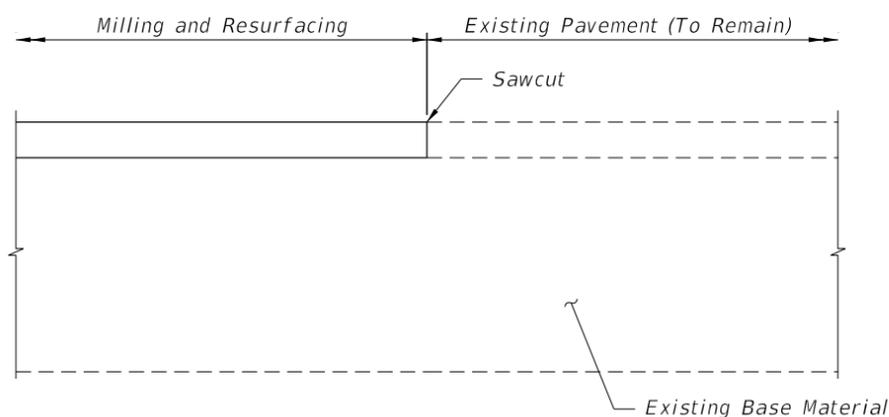
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Posted Speed = 45 MPH

CR 512
Within Limits of Milling and Resurfacing

- Pavement Notes:**
1. Mill existing asphalt pavement 2½" average depth.
 2. Pavement resurfacing
 - Type FC-9.5 Friction Course (PG76-22) (Traffic C) (1")
 - Type SP-12.5 Structural Course (PG76-22) (Traffic C) (1½")



BUTT JOINT DETAIL

BRIDGE NOs. 884078 & 884079

REVISIONS							INDIAN RIVER COUNTY BOARD OF COUNTY COMMISSIONERS	MILLING AND RESURFACING DETAILS	SHEET NO. B-8
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 CERTIFICATE OF AUTHORIZATION: 00000696	INDIAN RIVER COUNTY BRIDGE REPAIR	CR 512 BRIDGE REPAIRS (FDOT # 884078 & 884079)	