





<u>GENERAL NOTES</u>		EROSION CON
GOVERNING STANDARDS AND CONSTRUCTION SPECIFICA Florida Department of Transportation, FY 2024-25 appended herein, and FY 2024-25 Standard Specif amended by Contract Documents.	TIONS Standard Plans and revised Index Drawings as ications for Road and Bridge Construction, as	5. Prote B.
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MATERIALS		A v
Reinforcing Steel: Grade 60 carbon steel per Spec	ification Section 931. 28 day compressive strength	the
Concrete. Class II – Retaining wait (3,400 psr mm.	zo-uay compressive scrength	MAINTENANCE
PLAN DIMENSIONS All dimensions in these plans are measured in fee	t either horizontally or vertically unless otherwise noted	1. Mainte 1. Mainte
	e entrer horizonitariy or verticariy amess otherwise hotea.	for S
EXISTING BRIDGE CONSTRUCTION CONSIDERATIONS		applic
Dimension Verification: Unless otherwise noted, th	e dimensions, elevations and intersecting	barrie
angles shown are based on the information as det	ailed in the Original Construction	2. The e
responsibility to verify this data before beginning	construction and notify the Engineer of any	3 The C
discrepancies.	construction and notify the Engineer of any	but n
		Count
EXISTING ELEMENTS TO REPAIR		closu
Exercise special care not to damage any elements	of the structure that are to remain, including	a hur
reinforcing. Repair or replace to the satisfaction	of the Engineer, any elements that are to remain,	arrect
which are damaged during construction at no addit	tional cost to the County.	
1 The Contractor will restore all areas disturbed	by the construction	
to a condition equal to, or better than that now	existing.	
2. All areas where clearing and grubbing occurs si	hall be sodded at the completion of construction.	
3. Sod shall be Bahia.		
UTILITIES		4. The e
1. Prior to commencement of any excavation, the C	ontractor shall comply with Florida Statute 556,	5. Perso
2 The Contractor shall call Sunshine (1-800-432-4	ery. 1770) for field locations two (2) business days prior to	qualit
commencement of any excavation. The Contracto	r shall also be responsible to contact any utility owner(s)	6. The c
that may not be a "Sunshine" member.		opera be in
3. The location of some existing utilities are show	n in their approximate location and are for reference only;	7. For to
the exact location shall be determined by the C	ontractor during construction. Relocation of utilities shall	suppo
be coordinated with the utility companies after notify Engineer in advance before any relocation	identification of conflict by the Contractor. Contractor Shall	8. Seven
4. Existing utilities are to remain in place unless	otherwise noted.	the fo
5. The Contractor is responsible for the protection	n of all utilities to remain in place.	
6. The utility companies shall be notified by the C	ontractor two (2) business days in advance of any	
excavation involving their utilities so that comp	any representative can be present.	
7. The Contractor is to use caution when working in utilities, or poor sonal banks	in or around areas of overhead electric lines, underground	
Charlotte County Utilities - SW	941_769_2952	
Charlotte County Utilities – Sw Charlotte County Lighting District	941-675-3648	
Century Link	877–366–8344 ext. 3	
Comcast	800-778-9140	
Englewood Water District	941–460–1020 (Keith Ledford, PE)	
Florida Power and Light - Charlotte	800-788-9140	
MCI	800-624-9675	
Sunshine Water Services Sandalhaven	407-948-9839	
Crown Castle NG Fiber	855–933–4237 ext. 1	
Frontier Communications	941–400–3780 (Daryl Weisenborn)	
EROSION CONTROL	Dead and Dridge Construction Costion 101	
"Prevention Control and Abatement of Frosion a	nd Water Pollution"	
2. The Contractor shall provide a washout station	to be inspected and approved by the County prior	
to the use of any paint, concrete, grout materia	als, or any other polluting materials that require a washout.	
3. No debris or materials resulting from the work	shall be permitted in the waterway. Contractor shall utilize	
containment systems or best management practi	ces to contain all debris or materials and dispose of off site.	
4. The Contractor Shall repair or remove any equi	oment leaking fuel, oil, or other fluids immediately.	
A. The Contractor shall conduct his activities i	n a manner to avoid pollution of surface and groundwater and wetlands	
The contractor's construction methods shall a	protect wetland and surface water areas from damage due to mechanical	
grading, erosion, sedimentation vehicular trai	fic, and turbid discharges. No storage or stockpiling of equipment shall	
be allowed within any wetland area unless sp	pecifically authorized under permit. Water wetland area unless specifically	
authorized under permit. Water retention are	as to allow settling of suspended materials. All monitoring of any water	
areas that are affected by construction activ	ities shall be the responsibility of the Contractor.	I
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REVISIONS						Kimlow Uorn
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIYA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665

CHARLOTTE COU PUBLIC WORK	INTY IS		
HABILITATION & REI	PATR (CR	77

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OVER BUCK CREEK & OYSTER CREEK

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- TROL (CONT'D.)
 - ection of Water Resources: spread and effect expeditious cleanup and disposal shall be submitted.

OF TRAFFIC

- enance of traffic for this project shall be in compliance with the applicable FDOT Standard Indices 102-600 Series and these documents; The Manual on Uniform Traffic Control Devices Streets and Highways (U.S. Department of Transportation, FHWA), shall be followed in the design, cation, installation, maintenance and removal of all traffic control devices, warning devices, and ers necessary to protect the public and workmen from hazards within the project limits.
- ed construction with one-lane closure is anticipated.
- Contractor shall inform local emergency and rescue agencies located in the project vicinity including ot limited to those agencies listed below as well as the Engineer 14 Days in advance of any ty approved lane closures or restrictions, and again 24 hours in advance of each series of lane res. All lanes must be reopened to normal traffic within 12 hours during an evacuation notice for ricane or any other emergency event and shall remain open for the duration of the event as ted by the County.

Charlotte County Fire Station 10 Charlotte County Fire Station 13 Charlotte County Sheriff's Office Englewood Area Fire Control District - Station 7 Englewood Area Fire Control District - Station 7.

- existing posted speed is 45 mph. The speed may be reduced to 35 mph during construction.
- onnel working on the maintenance of traffic must have the respective applicable FDOT MOT
- fication of advanced, intermediate, and flagger based on their temporary traffic control duties.
- contractor shall restore all existing pavement damaged as a result of construction or MOT ations to original condition (prior to construction) as determined by the engineer. All costs shall cluded in Pay Item 102–1 Maintenance of Traffic (LS).
- emporary construction signs located in paved areas, the contractor shall provide temporary sign ort which does not penetrate the pavement.
- days prior to beginning work install PCMs in each direction, 500' in advance of the bridge with ollowing messages: BRIDGE

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	Work Zone	Ì	

The Contractor shall prepare a spill contingency plan in accordance with 40CFR, Part 109. The contractor shall event oil, fuel, or other hazardous substances from entering the air, ground, drainage, and local bodies of ter or wetlands. In the event that a spill occurs, despite design and procedural controls, the contractor shall ke immediate action to contain and cleanup the spill and report the spill immediately to the county's representative. written report providing certification of commitment of manpower, equipment, and materials necessary to prevent

existing bridge shall remain open to bidirectional vehicular and marine traffic at all times during repairs.

	(941) 697-5400
	(941) 473-0492
	(941) 475-9005
4	(941) 474-3311
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ROAD
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BRIDGE NO. 0100	63
GENERAL NOTES	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-02

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	QUANTITY	APPLICABLE TECHNICAL SPECIFICATIONS
101-1A	Mobilization/Demobilization	LS	1	TS-01
102-1	Maintenance of Traffic	LS	1	TS-02
104-2A	Prevention, Control, and Abatement of Erosion and Water Pollution	LS	1	T5-03
110-2-2A	Selective Clearing, Areas with Trees to Remain	LS	1	TS-04
110-4-10	Removal of Existing Concrete	SY	47	TS-05
120 - 1A	Regular Excavation	LS	1	TS-06
120-6A	Embankment	LS	1	TS-06
400-2-11	Concrete Class II, Retaining Walls	СҮ	2.7	TS-07
400-145A	Cleaning Concrete Surface	SF	9500	TS-08
401-70-1	Restore Spalled Areas, Epoxy	CF	1.0	TS-09
401-70-4	Restore Spalled Areas, Portland Cement Grout	CF	18.1	TS-10
411-1	Epoxy Material for Crack Injection - Structures Rehab	GA	2.3	TS-11
411-1A	Crack Sealing - Structures Rehab	LF	1130	TS-12
411-1B	Crack Sealing - Apron Slab Joint Sealing	LF	86	TS-13
411-2	Crack Inject and Seal - Structures Rehab	LF	27	TS-11
411-2A	Inject and Seal Armored Angle	LF	3	TS-14
413-151	Methacrylate Monomer	GA	133	TS-15
413-154	Cleaning and Sealing Concrete Surfaces: Penetrant Sealer or Methacrylates	SF	11500	TS-15
458-1-21	Bridge Deck Expansion Joint, Rehabilitation, Poured Joint with Backer Rod	LF	135	TS-16
506 - 3A	Bridge Drains	ΕA	18	TS-17
515-1-2	Pipe Handrail - Guiderail, Aluminum	LF	15	TS-18
515-1-42	Pipe Handrail - Guiderail, Relocate, Aluminum	LF	11	TS-18
515-4-42A	Bullet Rail Posts, Relocate - Double and Triple Rail	ΕA	2	TS-18
515-4-43B	Bullet Railing, Replace Single Rail	LF	36	TS-18
522-2	Concrete Sidewalk and Driveways, 6" Thick	SY	47	TS-19
522-5A	Sidewalk - Grinding Joints	ΕA	2	T5-20
524-2-1	Concrete Slope Pavement, Non-Reinforced, 3"	SY	14	TS-21
527 - 2	Detectable Warnings	SF	40	TS-22
530-3-4	Riprap - Rubble, F&I, Ditch Lining	ΤN	10	TS-23
536 - A	Guardrail Repairs	LS	1	TS-24
536-12-616A	Guardrail Repairs, Replace, Offset Block	EA	2	TS-24
536-83-1	Guardrail Post Replacement	EA	1	TS-24
562 - A	Repair of Galvanized Surfaces	LS	1	TS-25
563-4	Anti-Graffiti Coating, Non-Sacrificial	SF	9500	TS-26
570-1-2A	Performance Turf, Sod	LS	1	TS-27
706 - 1 - 3A	Raised Pavement Markers, Type B	LS	1	TS-28
710-12-101A	Painted Pavement Markings, Durable Paint, White, Solid, 6" Wide	LF	435	TS-29
710-12-201A	Painted Pavement Markings, Durable Paint, Yellow, Solid, 6" Wide	LF	580	TS-29
710-12-224A	Painted Pavement Markings, Durable Paint, Yellow, Solid, 18" Wide	LF	120	TS-29
920-530-100A	Fabric-Formed Concrete Revetment	SF	1450	TS-30
934-A	Grout	LS	1	TS-31

PAY ITEM NOTES

Pay Item 104-2A Prevention, Control, and Abatement of Erosion and Water Pollution This pay item includes 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 400-2-11 Concrete Class II, Retaining Walls This pay item shall also include all costs for labor, equipement, and materials required to construct the

reinforced concrete retaining wall including but not limited to excavation, compaction, concrete, reinforcing steel, formwork, and backfilling.

- Pay Items 401-70-4 Restore Spalled Areas, Portland Cement Grout This pay item shall also include the cost of containing and proper off site disposal of all debris resulting from these repairs.
- Pay Item 411-1A Crack Sealing Structures Rehab
 - This pay item shall include all work as described on "Crack Repair Details" sheet.

		REVIS	Kimlow Uorn			
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	
						JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKIYA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 DEFGISTRY NO 35106

- Pay Item 570-1-2A Performance Turf, Sod This pay item shall include all sod necissary to restore areas disturbed by the Contractor and in areas where vegetations clearing occurs adjacent to the sidewalks.
- Pay Item 706-1-3A Raised Pavement Markers, Type B This pay item includes all costs associated with furnishing and installing raised pavement markers in accordance with Standard Plan Index 706-001 and FDOT Standard Specification Section 706.
- Pay Item 710-12-101A, 710-12-201A & 710-12-224A Painted Pavement Markings, Durable Paint, (White & Yellow), Solid, 6" or 18" Wide These pay items include all costs associated to furnish and install painted pavement markings matching the existing pavement markings in width, color, and location.

REHABILITATION & REPAIR CR 775 OVER BUCK CREEK & OYSTER CREEK

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CHARLOTTE COUNTY PUBLIC WORKS

BRIDGE NO. 010063				
SUMMARY OF QUANTITIES	SHEET NO.			
CR 775 OVER OYSTER CREEK	B2-03			



Direction of Stationing

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SHEET NO.

B2-04

CR 775 OVER OYSTER CREEK

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BRIDGE NO. 0100	63
EXPANSION JOINT REPAIR DETAILS	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-08



TYPE 6 CRACK REPAIR DETAIL

TYPE 1 CRACK REPAIR NOTES:

- 1. Seal cracks by epoxy injection.
- 2. Repair details are for illustrative purposes.
- 3. See FDOT Standard Specifications Section 411.
- 4. The Contractor shall contain all debris resulting from cleaning cracks before and after epoxy injection and dispose off site.
- 5. Where cracks are being injected in close proximity to tidal waters, time the installation to maximize dry curing time during low tide.

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CRACK REPAIR & SEALING DETAILS	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-09

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P.E. LICENSE NUMBER 80484 1920 WEKIVA WAY, SUITE 200 WEST PALM BEACH, FL 33411 (561) 845-0665 REGISTR VO. 35106	REHABILITATION & . OVER BUCK CREEK &	REPAIR CI OYSTER C	R 775 CREEK	
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emove existing coating an oply non-sacrificial nti-graffiti coating, Typ.	nd
EINICH DETAIL	

Legend: ---- Limits of Anti-Graffiti Coating

5. Non-sacrificial anti-graffiti coating application shall take place after all spall repairs have been completed

6. All costs associated with the surface preparation and application of the non-sacrificial anti-graffiti coating

1. Within the longitudinal limits of the pedestrian parapet wall, trim all non-protected species to a limit 8 foot

BRIDGE NO. 010063

TRAFFIC RAILING REPAIR DETAILS	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-10

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WEST PALM BEACH. FL 33411

561) 845-0665 REGISTRY NO 3510

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REHABILITATION & REPAIR CR 775

OVER BUCK CREEK & OYSTER CREEK

Area of Unsound Concrete

1" Deep Sawcut limits, Typ.

Existing reinforcing steel to remain, do not damage when removing concrete

Maximum 1" deep sawcut along perimeter of area to be restored, Typ.

Match repair mortar surface to existing concrete surface Aggregate-fractured surface, $(\frac{1}{4}")$

BRIDGE NO. 0100	63
SPALL REPAIR DETAILS	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-11

TECHNICAL SPECIAL PROVISION (TSP) - T401

T401-1 DESCRIPTION

Replace deteriorated concrete by placing new Portland Cement Mortar as specified in this Section and in accordance T401-5.1 Typical Spall Repair: 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 mortar/concrete suitable for pumping, unless otherwise required in the Contract Documents. The selected material will achieve a minimum compressive strength of 2,000 psi at 24 hours and 5,000 psi at 28 days.

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 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 (15 lbs or less in general and adjacent to structural limits of construction) and hand tools adjacent to prestressing strands and reinforcing steel. 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 rebars 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.

Exercise special care when removing unsound concrete to not damage the bond between the prestressing strand and any sound concrete.

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 The quantity to be paid for will be the volume of Portland Cement Grout in cubic feet authorized, furnished, installed, and accepted 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

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 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 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.

T401-8 METHOD OF MEASUREMENT

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.

T401-9 BASIS OF PAYMENT

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

Pay Item No. 401 70 4 Restore Spalled Areas, Portland Cement Grout per cubic foot.

		REVIS	SIONS			Kimlow	CHADIOTTE COUNTRY
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		
							PUBLIC WORKS
						PE LICENSE NUMBER 80484	
						1920 WEKIVA WAY, SUITE 200	REHABILITATION & REPAIR CR 775
						WEST PALM BEACH, FL 33411	OVED DIGE CDEER & OVERED CDEER
						(561) 845-0665	OVER BUCA CREEA & DISIER CREEA
						REGISTRY NU. 35106	

BRIDGE	NO.	<i>010063</i>

TECHNICAL	, SPECI	AL
PROVISIONS	(TSP) -	T401

SHEET NO.

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CR 775 OVER OYSTER CREEK



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BULLET RAILING ANCHOR REPAIR

(Double post shown, triple post similar)

Bullet Railing Post Shift Notes:

- 1. Contractor shall temporarily remove and protect existing bullet railing post to facilitate concrete traffic railing spall repairs. If bullet railing post is damaged by the Contractor, the Contractor shall repair at no cost to the Owner.
- 2. If bullet railing post hardware is damaged, reinstall railing with new hardware matching FDOT Standard Plan Index 515-061.
- 3. Contractor shall cut existing anchor bolts 1" recessed into top of concrete railing at locations where severe section loss of anchors has occurred. Existing anchor bolts shall be encapsulated within Type F Epoxy. See anchor bolt end treatment above.

General Bullet Railing Repair Notes:

- 1. Contractor to provide new nuts and washers at bullet railing anchorage locations where hardware is missing.
- 2. Contractor shall not damage existing anchor bolts to remain. Any existing anchor bolts damaged by the Contractor will be replaced at the Contractor's expense.
- 3. All work associated with bullet railing cleaning and coating including that but not limited to, surface preparation and repairing galvanized finish on exposed anchor bolts, nuts, and washers shall be included in Pay Item 562-A.
- 4. All work associated with replacing bullet railing end caps shall be included in Pay Item 515-4-42A.





BULLET RAILING HOLE

BRIDGE NO. 010063	
BULLET RAILING REPAIR DETAILS	SHEET NO.
CR 775 OVER OYSTER CREEK	B2-15

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REVISIONS DATE BY Kimley » Horn JERRY MARCUS PICCOLO, P.E. P.E. LICENSE NUMBER 80484 1920 WEKNA WAY, SUITE 200 WEST PAIM BEACH, FL 33411 (561) 845-0665 REGISTRY NO. 35106 CHARLOTTE COUNTY PUBLIC WORKS <u>DESCRIP</u>TION DATE BY DESCRIPTION REHABILITATION & REPAIR CR 775 OVER BUCK CREEK & OYSTER CREEK

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REPRESENTATIVE REPAIR	SHEET
FIELD PICTURES	NO.

CR 775 OVER OYSTER CREEK

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