

**ITEM SPECIAL 519-00100: COMPOSITE FIBER WRAP SYSTEM:**  
 ITEM SPECIAL 519-00100: COMPOSITE FIBER WRAP SYSTEM:

A COMPOSITE FIBER WRAP SYSTEM SHALL BE APPLIED TO AREAS OF THE PIERS DESIGNATED IN THE PLANS IN ACCORDANCE WITH PROPOSAL NOTE 519. THE FIBER WRAP SYSTEM SHALL MEET THE FOLLOWING STRENGTH REQUIREMENTS:

FIBER WRAP APPLIED AT THE CAP LOCATIONS SHALL BE A BIDIRECTIONAL FABRIC WITH A MINIMUM UNIT STRENGTH OF 1.0 K/IN IN EACH DIRECTION.

FIBER WRAP APPLIED TO THE COLUMN LOCATIONS SHALL BE A FIBER WRAP SYSTEM WITH A 0.150 KSI MINIMUM CONFINING STRESS.

**ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN:**  
 PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

PATCHING IN ACCORDANCE WITH 519 IS TO BE USED ON PORTIONS OF THE EXISTING SINGLE SLOPE CONCRETE RAILINGS, BACK FACE OF EXISTING RAILING PARAPETS, AND PIERS AS SHOWN IN THE PLANS. THE ENGINEER MAY ELECT TO CHANGE THE RECOMMENDED PATCHING METHOD BASED ON THE OBSERVED CONDITIONS AT THE TIME OF WORK.

AN ADDITIONAL CONTINGENCY QUANTITY OF 15% HAS BEEN INCLUDED IN THE PATCHING QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE FOR THE SQUARE FEET OF PATCHING COMPLETED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH 519.

**ITEM 625: DISTRIBUTION CABLE, MISC.: REPLACE EXISTING DISTRIBUTION CABLE:**

DE-ENERGIZE AND REMOVE THE EXISTING DISTRIBUTION CABLE RUNNING IN THE BRIDGE PARAPET CONDUITS FROM THE FIRST JUNCTION BOX LOCATION ON THE BRIDGE TO THE END/LAST LOCATION ON THE BRIDGE. EXAMINE THE EXISTING WIRING AND MAKE NOTE OF SIZE, VOLTAGE RATING, AND OTHER SALIENT FEATURES FOR RECORD. REPLACED LIGHTING SYSTEMS SHALL MATCH EXISTING AND AT A MINIMUM SHALL BE THREE-WIRE SYSTEMS UTILIZING DISTRIBUTION CABLE RATED FOR 5,000 VOLTS (MAXIMUM OPERATING VOLTAGE UNDER 2005 NEC OF 2,400 VOLTS). THE NEW DISTRIBUTION CABLE SHALL MATCH THE EXISTING DISTRIBUTION CABLE. WHERE CABLE SIZE IS UNKNOWN, USE NO. 4 AWG. PROVIDE SPLICES AND CONNECTORS AS REQUIRED TO PRODUCE A FUNCTIONING SYSTEM.

WHEN COMPLETE, TEST THE LIGHTING SYSTEM IN ACCORDANCE WITH C&MS 625.19.

PAYMENT FOR THE DISTRIBUTION CABLE REMOVAL, NEW DISTRIBUTION CABLE, CONNECTORS AND SPLICES, AND FINAL SYSTEM TESTING SHALL BE MEASURED ON A PER FOOT BASIS FOR LENGTH OF CABLE REPLACED IN THE EXISTING STRUCTURE CONDUITS. THIS PAYMENT SHALL BE COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND OTHER INCIDENTALS TO COMPLETE THE WORK AND PROVIDE A FUNCTIONING ELECTRICAL DISTRIBUTION SYSTEM.

**ITEM 625: REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN:**

THIS WORK CONSISTS OF THE REMOVAL AND REERECTION OF EXISTING LIGHT POLES TO PROVIDE A COMPLETE LIGHTING SYSTEM READY FOR SERVICE.

REMOVAL WORK SHALL BE IN ACCORDANCE WITH C&MS 625.21 AND SHALL CONSIST OF REMOVING THE EXISTING LIGHT POLE AND ELECTRICAL WIRING FROM THE EXISTING PILASTERS WITH CARE TO AVOID DAMAGING THE LIGHT POLE, LUMINAIRES, OR OTHER COMPONENTS. UNBOLT BASE PLATES AND RETAIN ORIGINAL NUTS AND WASHERS FOR REUSE. MARK THE LIGHT POLE LOCATIONS ON EACH POLE WITH A REMOVABLE MARKER OR INDICATOR AND RETAIN THE ASSOCIATED HARDWARE WITH EACH POLE. WHERE NUTS OR WASHERS ARE DAMAGED, CORRODED, OR OTHERWISE UNUSABLE PROVIDE NEW HARDWARE OF THE SAME GRADE, TYPE, AND FINISH. THE PARAPET CONCRETE REMOVAL NECESSARY FOR PARAPET FACING IS PAID FOR UNDER ITEM 517: RAILING FACED, AS PER PLAN. IN ADDITION TO THE REMOVAL REQUIRED FOR THE FACING, THE WORK SHALL ALSO INCLUDE HAND CHIPPING AS NECESSARY TO REMOVE THE EXISTING JUNCTION BOXES AND PROVIDE NEW JUNCTION BOXES. THE ADDITIONAL WORK TO REMOVE THE BOXES AND PROVIDE FOR NEW BOXES BEYOND THE FACING REMOVAL SHALL BE PAID FOR AS INCIDENTAL UNDER ITEM 625. REMOVE EXISTING CONDUIT WITHIN THE LIGHT POLE AND REMOVE THE EXISTING LUMINAIRES. EXAMINE THE EXISTING LUMINAIRES AND WIRING AND MAKE NOTE OF MAKE, MODEL, VOLTAGE, AND OTHER SALIENT FEATURES FOR RECORD. TAKE CARE TO AVOID DAMAGING ANY COMPONENTS TO BE REUSED IN THE NEW CONDITION, INCLUDING ANCHOR BOLTS.

DURING PARAPET FACING WORK, PROVIDE NEW JUNCTION BOXES AS SHOWN ON STANDARD DRAWING HL-20.14 AND IN ACCORDANCE WITH C&MS 625.11. PROVIDE STRUCTURE GROUNDING IN ACCORDANCE WITH ODOT STANDARD CONSTRUCTION DRAWING HL-50.21.

AFTER COMPLETION OF THE PARAPET AND OVERLAY WORK, PLACE THE LIGHT POLES BACK IN THEIR ORIGINAL LOCATIONS WITH NEW WIRING AND LUMINAIRES TO MATCH THE EXISTING AND STANDARD CONSTRUCTION DRAWINGS HL-60.11 AND HL-60.12. REPLACED LIGHTING SYSTEMS SHALL MATCH EXISTING AND AT A MINIMUM SHALL BE THREE-WIRE SYSTEMS UTILIZING DISTRIBUTION CABLE RATED FOR 5,000 VOLTS (MAXIMUM OPERATING VOLTAGE UNDER 2005 NEC OF 2,400 VOLTS). WHERE POLE WIRING IS UNKNOWN USE NO. 10 AWG EXTENDING FROM THE POLE BASE CONNECTOR TO THE LIGHTING FIXTURE. THE CONTRACTOR'S ATTENTION IS DRAWN TO C&MS 625.08, 625.16, AND 625.18. WHEN COMPLETE, TEST THE LIGHTING SYSTEM IN ACCORDANCE WITH C&MS 625.19. ADDITIONAL CONCRETE PLACED BEYOND THAT NEEDED FOR THE PARAPET REFACING WORK AND ASSOCIATED WITH THE JUNCTION BOX REPLACEMENTS SHALL BE PAID AS INCIDENTAL TO ITEM 517: RAILING FACED, AS PER PLAN.

PAYMENT FOR THE REPLACEMENT LUMINAIRES; LIGHT POLE REMOVAL, STORAGE, AND RESETTING; REPLACEMENT WIRING AND WIRING CONNECTORS; ANY ANCHOR BOLT OR HARDWARE REPLACEMENT REQUIRED; JUNCTION BOX REMOVAL AND REPLACEMENT; LIGHT POLE GROUNDING; ADDITIONAL CONCRETE REMOVAL REQUIRED TO REMOVE AND REPLACE JUNCTION BOXES; AND FINAL SYSTEM TESTING SHALL BE MEASURED ON AN EACH BASIS PER LIGHT POLE AND PAID UNDER ITEM 625: REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN. THIS PAYMENT SHALL BE COMPENSATION FOR ALL LABOR, EQUIPMENT, MATERIALS AND OTHER INCIDENTALS TO COMPLETE THE WORK AND PROVIDE A FUNCTIONING LIGHT POLE AND SYSTEM.

**ITEM 625: CONDUIT, MISC.: INSTALL NEW CONDUIT SUPPORT STRAPS:**

FIELD INSPECTIONS DETERMINED THAT MOST OF THE STRAPS HOLDING ELECTRICAL CONDUITS TO THE FACES OF PIERS 4, 6, 7 AND 18 HAVE LARGELY BROKEN. THE CONTRACTOR SHALL REMOVE ALL EXISTING STRAPS AND INSTALL NEW STRAPS ANCHORED INTO THE CONCRETE AT THE MAXIMUM SPACING SHOWN IN THE DETAILS. PRIOR TO INSTALLING THE STRAPS, THE CONTRACTOR SHALL COMPLETE ALL PATCHING AND FIBER WRAPPING IN THE VICINITY OF THE CONDUIT. THE CONTRACTOR MAY NEED TO TEMPORARILY SUPPORT THE CONDUIT OFF THE SURFACE OF THE PIER WHILE FIBER WRAPPING IS BEING INSTALLED.

THE CONDUIT STRAPS AND ANCHORS SHALL BE GALVANIZED AND MEET THE REQUIREMENTS OF 725.04.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO REMOVE EXISTING STRAPS, TEMPORARILY SUPPORT THE CONDUIT DURING REPAIRS, AND INSTALL NEW STRAPS AND ANCHORS TO THE SATISFACTION OF THE ENGINEER. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITY OF CONDUIT SECURED TO THE FACE OF PIER AT THE CONTRACT PRICE FOR ITEM 625: CONDUIT, MISC.: INSTALL NEW CONDUIT SUPPORT STRAPS.

**ITEM 844: CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN:**

AREAS OF THE PIERS WHERE SIGNIFICANT FLOWS OF WATER AND DEICING AGENTS HAVE RESULTED IN THE DETERIORATION OF THE CONCRETE AND SIGNIFICANT RUSTING OF THE REINFORCING STEEL SHALL BE PATCHED IN ACCORDANCE WITH THE SUPPLEMENTAL SPECIFICATION 844. THIS INCLUDES AREAS OF THE PIER CAP AND COLUMN 2 THAT ARE LOCATED UNDER THE OPEN JOINT AS WELL AS PIER CAPS AND COLUMNS THAT ARE LOCATED NEAR SCUPPER OUTLETS THAT HAVE LED TO DETERIORATION. THE PATCHING METHOD (844 OR 519) THAT IS RECOMMENDED HAS BEEN NOTED ON THE PLANS. THE ENGINEER ELECT TO CHANGE THE PATCHING METHOD BASED ON THE OBSERVED CONDITIONS AT THE TIME OF WORK.

AN ADDITIONAL CONTINGENCY QUANTITY OF 15% HAS BEEN INCLUDED IN THE PATCHING QUANTITIES TO BE USED AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE FOR THE SQUARE FEET OF PATCHING COMPLETED TO THE SATISFACTION OF THE ENGINEER IN ACCORDANCE WITH 844.

**ITEM 848: SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (2.25"):**  
**ITEM 848: SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN:**  
**ITEM 848: SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN:**  
**ITEM 848: TEST SLAB, AS PER PLAN:**  
**ITEM 848: FULL DEPTH REPAIR, AS PER PLAN:**  
**ITEM 848: EXISTING CONCRETE OVERLAY REMOVED, AS PER PLAN (1.50"):**

WORK SHALL BE PERFORMED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 848, "BRIDGE DECK REPAIR AND OVERLAY WITH CONCRETE USING HYDRO-DEMOLITION", WITH THE FOLLOWING REVISIONS.

THE INTENT OF THESE ITEMS IS TO REPAIR THE EXISTING BRIDGE DECKS WITHIN THE PERMITTED CLOSURE PERIODS ACCORDING TO THE MAINTENANCE OF TRAFFIC SHEETS. ALL DEBRIS AND ALL WATER DURING HYDRODEMOLITION SHALL BE CONTAINED IN A SAFE MANNER IN ACCORDANCE WITH SS 848.

THE REMOVAL OPERATIONS SHALL NOT BEGIN IF SUSTAINED RAINS (5 HOURS OR MORE WITH BREAKS BETWEEN SHOWERS LESS THAN 1.5 HOURS) ARE PREDICTED WITHIN 48 HOURS OF COMMENCEMENT.

**ITEM 848 NOTES (CONTINUED):**

THE REMOVAL OF THE EXISTING CONCRETE OVERLAY INCLUDES SCARIFYING AND REMOVING EXISTING CONCRETE FROM THE REPAIRED PATCHED CONCRETE.

DURING HYDRODEMOLITION AREAS OF FULL DEPTH REPAIR ARE EXPECTED. ONLY HYDRODEMOLITION REMOVAL EQUIPMENT IS PERMITTED TO DRIVE/OPERATE IN THESE AREAS. ALL EQUIPMENT SHALL BE OPERATED FROM A SAFE DISTANCE ON THE BRIDGE DECK SUPPORTED BY A MINIMUM OF TWO ADJACENT BEAMS. A VACUUM TRUCK CAPABLE OF OPERATING A BOOM FROM A SAFE DISTANCE SHALL BE PROVIDED FOR CLEANING HYDRODEMOLITION DEBRIS. DRIVING DIRECTLY ON EXPOSED REBAR SHALL NOT BE PERMITTED.

THE CONTRACTOR SHALL PROVIDE A MIX DESIGN AND MAKE ONE OR MORE, ONE CUBIC YARD, TRIAL BATCHES OF OVERLAY MATERIAL AT LEAST TWO WEEKS BEFORE THE OVERLAY IS PLACED, DEMONSTRATING THE ABILITY TO MEET 848.26 AND 848.31. DEVELOP BEAM BREAK MATURITY CURVES AND SUBMIT FOR REVIEW BY THE ENGINEER.

REVISE 848.29. THE CONTRACTOR SHALL CONTINUE THE WET CURE FOR THE MAXIMUM HOURS POSSIBLE DURING THE PERMITTED CLOSURE. TRAFFIC SHALL NOT BE PERMITTED ON THE FINISHED OVERLAY SURFACE UNTIL A MINIMUM WET CURE OF 12 HOURS, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 600 PSI.

THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 12 HOURS, 24 HOURS, 36 HOURS, AND 48 HOURS. PERFORM BEAM BREAK TESTS AND DOCUMENT THE TIME OF THE POUR, THE TIME OF THE BEAM BREAK TESTS, AND THE MODULUS OF RUPTURE OF EACH BEAM.


A WATER FOG SHALL BE CONTINUOUSLY APPLIED OVER THE SURFACE OF THE FRESHLY PLACED CONCRETE IN SUCH A MANNER THAT THE ENTIRE SURFACE IS KEPT AT A RELATIVE HUMIDITY OF 90% OR GREATER. THE AREA TO BE FOGGED SHALL BE THE ENTIRE AREA OF THE FRESHLY PLACED CONCRETE, WHICH HAS NOT HAD THE FINAL FINISH APPLIED. THE FOG SHALL BE DELIVERED THROUGH A NETWORK OF NOZZLES, WHICH ARE PROPERLY SPACED TO PROVIDE A UNIFORM FOG AT THE SURFACE OF THE CONCRETE. THE NOZZLES USED SHALL ATOMIZE THE WATER SO THAT THERE ARE NO DISCERNIBLE DROPLETS OF WATER. THE FOGGING EQUIPMENT SHALL BE CAPABLE OF APPLYING WATER IN A MIST, NOT A SPRAY, TOO FINE TO DAMAGE THE CONCRETE SURFACE. THE AREA OF COVERAGE FROM EACH NOZZLE SHALL OVERLAP ADJACENT COVERAGE BY AT LEAST 12 INCHES. IT SHALL BE DEMONSTRATED THAT THE FOGGING SYSTEM IS CAPABLE OF DELIVERING THE FOGGING ENVIRONMENT FOR AT LEAST TWICE THE ANTICIPATED REQUIRED TIME, PRIOR TO PLACEMENT OF CONCRETE. THE INTENDED SYSTEM SHALL BE PROPERLY FIELD TESTED. CARE SHALL BE EXERCISED DURING FINISHING TO PREVENT FOGGED WATER FROM BECOMING PART OF THE CONCRETE AND TO PREVENT INCREASING WATER CONTENT IN THE CONCRETE BY THE WATER USED DURING THE CURING PROCESS.

FOGGING SHALL CONTINUE UNTIL THE SURFACE IS COVERED WITH WET BURLAP. THE WET BURLAP SHALL NOT BE APPLIED UNTIL THE DECK CAN RECEIVE THE BURLAP AND ANY PLACEMENT LOADS WITHOUT DEFORMATION.

**ITEM 848 NOTES CONTINUED ON SHEET 55.**

GENERAL NOTES  
 BRIDGE NO. FRA-315-0278  
 S.R. 315 OVER OLENTANGY RIVER, FIFTH AVE., & KING AVE.

Addendum 2 - 4/24/23: Revision to 848 As Per Plan Items.

SFN	2515393
DESIGN AGENCY	
 ONE EASTON OVAL SUITE 400 COLUMBUS, OH 43219 T 614-476-6000	
DESIGNER	CHECKER
LMB	TML
REVIEWER	
MAA 04/01/22	
PROJECT ID	
111640	
SUBSET	TOTAL
8	63
SHEET TOTAL	
54	109

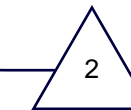
**ITEM 848 NOTES (CONTINUED FROM SHEET 54):**

REVISIONS TO 848.26: GROOVES SHALL BE SAWED IN THE CONCRETE SURFACE IN THE SAME DIRECTION AS THE EXISTING SAWED LINES PER 511.20 AFTER THE WET CURE IS COMPLETED. AFTER TEXTURING THE CONCRETE SURFACE, CLEAN THE SURFACE AND SPRAY A UNIFORM APPLICATION OF CURING MATERIAL 705.07, TYPE 1 OR 1D, AS PER CMS 511.17 METHOD B OF MEMBRANE CURING. THE DECK SURFACE SHALL BE DRY PRIOR TO PLACEMENT OF THE CURING MATERIAL. IF THE SAWING OF THE GROOVES CANNOT BE DONE WITHIN THE SAME WEEKEND AS THE OVERLAY THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY AFTER THE CURING COMPOUND HAS BEEN APPLIED, AND COMPLETE THIS WORK ON A SEPARATE NIGHT AND REAPPLY THE MEMBRANE CURING COMPOUND.

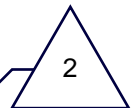
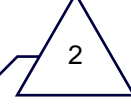
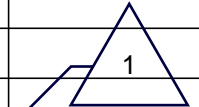
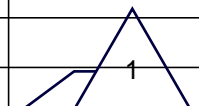
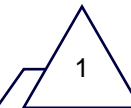
PRIOR TO CONSTRUCTION OF PROPOSED OVERLAY, HOLD A PRE-PLACEMENT MEETING. ITEMS TO BE DISCUSSED INCLUDE:

- SEQUENCE OF CONSTRUCTION AND MOT
- STAGING OF EQUIPMENT DURING HYDRODEMOLITION AND PLACEMENT OF PROPOSED OVERLAY
- ANTICIPATED WEATHER CONDITIONS AND EMERGENCY COVERING MATERIALS IN CASE OF INCLEMENT WEATHER.
- PROTECTION OF ADJACENT TRAFFIC PROCEDURES (AS APPLICABLE)
- RATE OF DELIVERY OF THE CONCRETE TO ENSURE COMPLETION
- PROCEDURES FOR INSTALLATION OF FORMWORK FOR FULL DEPTH AREAS
- CONSOLIDATION AND FINISHING OF THE CONCRETE
- NUMBER OF FINISHERS AND THEIR DUTIES
- FINISHING TOOLS AND EQUIPMENT AVAILABLE
- TIMING OF FOGGING AND PLACEMENT OF WET CURE
- REMOVAL OF WET CURE
- APPLICATION OF SPRAY CURE
- ANY OTHER APPROPRIATE SUBJECTS

PAYMENT FOR THIS WORK INCLUDES ALL EQUIPMENT, TOOLS, MATERIAL, AND LABOR NECESSARY TO PERFORM THIS WORK, AND WILL BE MADE AT THE CONTRACT PRICE BID FOR THE ITEMS OF WORK ESTABLISHED IN SS 848.



ESTIMATED QUANTITIES										CALC BY:	MJZ	DATE:	3/31/2022
										CHECK BY:	PES	DATE:	4/4/2022
ITEM	EXT	PIERS	NB SS	SB SS	CONTINGENCY	QUANTITY	UNIT	PART.		DESCRIPTION	SEE SHEET		
								01/NHS/14	02/NHS/05				
202	11203	LS	LS	LS		LS		LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	7 OF 63		
509	10000		19,177	22,289		41,466	LB	41,466		EPOXY COATED REINFORCING STEEL			
509	20001				200	200	LB	200		REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	7 OF 63		
509	30020		13,635	15,951		29,586	FT	29,586		NO. 4 GFRP DEFORMED BARS			
512	10100	4,135	2,280	2,243		8,658	SY	8,658		SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)			
SPECIAL	512-71500	2,821				2,821	SY	2,821		URETHANE TOP COAT SEALER			
512	74000		648	317		965	SY	965		REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES			
SPECIAL	512-75000		74	88		162	FT	162		SEALING: CONCRETE BRIDGE RAIL CRACK SEALING	7 OF 63		
513	10001			LS		LS		LS		STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN	7 OF 63		
516	14600		172	172		344	FT	344		STRUCTURAL JOINT OR JOINT SEALER, MISC.: REFURBISH 7" STRIP SEAL JOINT (HINGES 1, 2, AND 3)	41 OF 63		
516	14600		122	120		242	FT	242		STRUCTURAL JOINT OR JOINT SEALER, MISC.: REFURBISH MODULAR JOINTS (ABUTMENTS)	42 OF 63		
517	76201		1,439	1,702		3,141	FT	3,141		RAILING FACED, AS PER PLAN	52 OF 63		
SPECIAL	519-00100	25,301				25,301	SF	25,301		COMPOSITE FIBER WRAP SYSTEM	8 OF 63		
519	11101	621	116	75	122	934	SF	934		PATCHING CONCRETE STRUCTURE, AS PER PLAN	8 OF 63		
625	23308		1,295	1,565		2,860	FT	2,860		DISTRIBUTION CABLE, MISC.: REPLACE EXISTING DISTRIBUTION CABLE	8 OF 63		
625	25920	417				417	FT	417		CONDUIT, MISC.: INSTALL NEW CONDUIT SUPPORT STRAPS	8 OF 63		
625	35011		10	10		20	EACH	20		REMOVE AND REERECT EXISTING LIGHT POLE, AS PER PLAN	8 OF 63		
625	98200		LS			LS		LS		LIGHTING, MISC.: REPAIR JUNCTION BOXES, AS PER PLAN	51 OF 63		
844	10001	3,761			565	4,326	SF	4,326		CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, AS PER PLAN	8 OF 63		
848	10201	2	11,764	11,369		23,133	SY	23,133		SUPERPLASTICIZED DENSE CONCRETE OVERLAY USING HYDRODEMOLITION (2.25"), AS PER PLAN	8 OF 63		
848	20001		11,764	11,369		23,133	SY	23,133		SURFACE PREPARATION USING HYDRODEMOLITION, AS PER PLAN	8 OF 63		
848	30201		83	237		320	CY	320		SUPERPLASTICIZED DENSE CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN	8 OF 63		
848	50000		150	427		577	SY	577		HAND CHIPPING			
848	50101	2	LS	LS		LS		LS		TEST SLAB, AS PER PLAN	8 OF 63		
848	50201		1	76		77	CY	77		FULL-DEPTH REPAIR, AS PER PLAN	8 OF 63		
848	50321		11,764	11,369		23,133	SY	23,133		EXISTING CONCRETE OVERLAY REMOVED (1.50" THICK), AS PER PLAN	8 OF 63		



**ESTIMATED QUANTITIES**  
**BRIDGE NO. FRA-315.0278**  
**SR-315 OVER OLENTANGY RIVER, 5TH AVE., & KING AVE.**

Addendum 1 - 4/19/23: Revision to 519, 644 and 848 quantities, remove 505.  
 Addendum 2 - 4/24/23: Revision to 848 As Per Plan Items.

SFN  
 2515393  
 DESIGN AGENCY  
  
 ONE EASTON OVAL  
 SUITE 400  
 COLUMBUS, OH 43219  
 T 614-476-6000  
 DESIGNER CHECKER  
 CML MJZ  
 REVIEWER  
 PES 04/01/22  
 PROJECT ID  
 11640  
 SUBSET TOTAL  
 9 63  
 SHEET TOTAL  
 55 109