

**REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:**

844 4/20/18  
848 1/15/21

**REFER TO THE FOLLOWING SUPPLEMENTAL SPECIFICATIONS:**

DBR-2-73 7/19/02  
DBR-3-11 7/15/11  
DS-1-92 7/15/22  
EXJ-3-82 1/18/13  
PCB-91 7/17/20

**DESIGN SPECIFICATIONS**

THIS STRUCTURE CONFORMS TO "LRFD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 8th ED. , AND THE 2019 ODOT BRIDGE DESIGN MANUAL.

**DESIGN LOADING**

HS 20-44 & ALT. MILITARY LOAD  
1.50" MICROSILICA CONCRETE OVERLAY

**DECK PROTECTION METHOD**

MSC CONCRETE OVERLAY

**ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN**

PRIOR TO THE SURFACE CLEANING SPECIFIED IN 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. MINIMUM WATER PRESSURE SHALL BE 1,500 PSI.

**HMWM CONCRETE SEALER**

THE CONTRACTOR SHALL SEAL ALL CONSTRUCTION JOINTS IN THE DECK SLAB OVERLAY, ABUTMENT BACK WALL AND APPROACH SLAB OVERLAY WITH A HIGH MOLECULAR WEIGHT METHACRYLATE SEALER PER CMS 511.22. SEALING SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE CONCRETE OVERLAY AND APPROACH SLAB ITEMS.

**DECK SURVEY**

THE DECK SLAB AND APPROACH SLAB ELEVATIONS PROVIDED SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. PRIOR TO THE START OF DEMOLITION, THE CONTRACTOR SHALL SURVEY THE EXISTING DECK SLAB AND APPROACHES TO THE BRIDGE TO ENSURE THAT A PROFILE IS RE-ESTABLISHED THAT TRANSITIONS SMOOTHLY FROM THE EXISTING ASPHALT APPROACH PAVEMENT ONTO THE BRIDGE.

THE SURVEY SHALL ALSO BE USED TO MANUFACTURE THE NEW STEEL EXPANSION JOINTS WITH A PROPER CROSS SLOPE THAT MATCHES EXISTING. ALL COSTS ASSOCIATED WITH THE SURVEY SHALL BE CONSIDERED INCIDENTAL TO ITEM 848.

**EXISTING STRUCTURE VERIFICATION**

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

**ITEM 202 - PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN**

THIS WORK CONSISTS OF THE REMOVAL OF PORTIONS OF THE EXISTING STRUCTURES, ETC. AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING SUBSTRUCTURE REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE OF EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION AND DEMOLITION PLANS TO THE ENGINEER FOR APPROVAL.

THE CONTRACTOR MUST REVIEW THE STRUCTURE WHEN PREPARING HIS BID. THE CONTRACTOR WILL REVIEW THE CONDITION OF THE STRUCTURE TO DETERMINE WHAT DEBRIS WILL FALL FROM THE STRUCTURE DURING REMOVAL. THE CONTRACTOR WILL DETERMINE THE CORRESPONDING COST TO CLEAN UP ANY AND ALL DEBRIS WHICH FALLS FROM THE STRUCTURE DURING ALL REMOVAL OPERATIONS. THE COST TO CLEAR AND CLEAN UP ALL DEBRIS DURING REMOVAL SHALL BE INCLUDED WITH THE BID FOR THIS ITEM OF WORK. NO ADDITIONAL COST WILL BE RECOGNIZED TO CLEAN DEBRIS RESULTING FROM THE STRUCTURE REMOVAL OPERATION.

CUT LINE CONSTRUCTION JOINT PREPARATION: SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS 1 INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST, OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

THE CONTRACTOR SHALL USE LIGHT WEIGHT CHIPPING HAMMERS FOR SIDEWALK REPAIRS IN ORDER TO AVOID DAMAGE TO THE EXISTING UTILITY CONDUITS BURIED IN THE SIDEWALKS. SOME OF THE CONDUITS COULD BE ASBESTOS.

THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY PORTION OF THE STRUCTURE THAT WILL REMAIN IN SERVICE. ANY PORTION OF THE REMAINING STRUCTURE DAMAGED AS A RESULT OF CONTRACTOR ACTIONS SHALL BE REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF REMOVALS ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN.

**ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T= 1 1/2")**  
**ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN (FOR BRIDGE BUT-127-11.98)**

THIS ITEM SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 848 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

REVISIONS TO 848.20: MECHANICAL MEANS MAY BE USED TO REMOVE THE TOP 0.75 INCH OF THE ORIGINAL DECK. THE REMAINING 0.5 INCH OF ORIGINAL DECK SHALL BE REMOVED BY HYDRODEMOLITION.

AT LEAST THIRTY DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A SCHEDULE OF OVERLAY WORK ITEMS TO BE COMPLETED. THE SCHEDULE SHALL INCLUDE A BREAKDOWN OF ALL MAJOR WORK ACTIVITIES ON AN HOURLY BASIS. OVERLAY WORK SHALL NOT BEGIN UNTIL THE SCHEDULE IS APPROVED BY THE ENGINEER.

CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN THE WHEEL LINE UNLESS SHOWN IN THE PLANS.

REVISIONS TO 848.21: THE FINAL SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY. HAND CHIPPING IS FOR THE PURPOSE OF CHIPPING AREAS WHERE THE HYDRODEMOLITION MACHINE DOES NOT HAVE ACCESS. IF THE DESIRED DEPTH IS ACHIEVED BY HYDRODEMOLITION, NO FURTHER REMOVAL IS NECESSARY.

REVISIONS TO 848.26: LONGITUDINAL GROOVES SHALL BE SAWED IN THE CONCRETE SURFACE OF THE TRAVELLED LANES PER 511.20, AFTER THE WET CURE IS COMPLETE. AFTER THE TEXTURING THE CONCRETE SURFACE, CLEAN THE SURFACE AND SPRAY AN UNIFORM APPLICATION OF CURING MATERIAL 705.07, TYPE 1 OR 1D, AS PER CMS 511.17 METHOD B OF MEMBRANE CURING. THE DECK SURFACE MUST BE DRY PRIOR TO PLACEMENT OF THE CURING MATERIAL. IF THE SAWING OF THE LONGITUDINAL GROOVES CANNOT BE DONE WITHIN THE SAME SHORT-TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, AND SHALL HAVE 24 HOURS FROM REMOVAL OF THE WET CURE TO SAW THE LONGITUDINAL GROOVES AND REAPPLY THE MEMBRANE-CURING COMPOUND.

REVISIONS TO 848.30: THE REMOVAL OPERATIONS SHALL NOT BEGIN IF SUSTAINED RAINS (5 HOURS OR MORE WITH BREAKS BETWEEN SHOWERS LESS THAN 1 1/2 HOURS) ARE PREDICTED WITHIN 48 HOURS OF COMMENCEMENT.

THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. THEY ARE NOT IN EFFECT FROM 11:00 PM TO 9:30 AM.

PAYMENT FOR ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, ON A SQUARE YARD BASIS.

**PROPOSED WORK**

REHABILITATE BRIDGE (BUT-127-0728, SFN 0902705) WHICH CARRIES US 127 OVER TAIL RACE GREAT MIAMI RIVER IN THE CITY OF HAMILTON AS FOLLOWS:

- REMOVE 1 1/4" OF THE EXISTING CONCRETE DECK, TOP OF BACKWALL AND APPROACH SLABS USING HYDRODEMOLITION PER SS 848. REPLACE WITH 1 1/2" MICROSILICA CONCRETE (MSC) OVERLAY ALLOWING CONCRETE TO BE FINISHED 1/4" ABOVE THE EXPANSION JOINT ARMOR. USE ACCELERATED CLOSURE/OVERLAY OPERATION TO MEET M.O.T. REQUIREMENTS.
- REPLACE THE COMPRESSION SEALS WITH NEW COMPRESSION SEALS. CONTRACTOR IS REQUIRED TO MEASURE THE EXISTING EXPANSION JOINT WIDTH/GAP AND TEMPERATURE AT TIME OF MEASUREMENTS. PROVIDE THIS INFORMATION TO THE ENGINEER PRIOR TO ORDERING REPLACEMENT.
- REPLACE THE 1/2" COMPRESSION SEAL BETWEEN THE APPROACH SLAB AND BACKWALL WITH JOINT SEALER PER 705.04.
- PATCH DETERIORATED AREAS OF THE PIERS, ABUTMENTS, CURBS, AND SIDEWALKS USING 519 PATCHING SPECIFICATIONS. INCLUDE GALVANIC ANODES IN THE LARGER PIER REPAIR AREAS.
- USE 646 EPOXY FOR TRAFFIC PAINT ON THE CONCRETE WEARING SURFACE.
- REPLACE THE APPROACH GUARDRAIL AND TERMINAL ASSEMBLIES AT THE NORTHWEST CORNER TO CURRENT STANDARDS.

REHABILITATE BRIDGE (BUT-127-1198, SFN 0902810) WHICH CARRIES US 127 OVER MITTON RUN AS FOLLOWS:

- REMOVE 1 1/4" OF THE EXISTING CONCRETE DECK AND APPROACH SLABS USING HYDRODEMOLITION PER SS 848. REPLACE WITH 1 1/2" MICROSILICA CONCRETE (MSC) OVERLAY ALLOWING CONCRETE TO BE FINISHED 1/4" ABOVE THE EXPANSION JOINT ARMOR.
- REMOVE THE EXISTING COMPRESSION SEAL BETWEEN THE DECK AND APPROACH SLAB AND REPLACE WITH A JOINT SEALER PER 705.04.
- RETROFIT THE GUARDRAIL ON THE BRIDGE PER DBR-3-11.
- USE 646 EPOXY FOR TRAFFIC PAINT ON THE CONCRETE WEARING SURFACE.
- REPLACE THE APPROACH GUARDRAIL AND END TERMINAL ASSEMBLIES TO MEET CURRENT MGS STANDARDS.

SFN 0902705

SFN 0902810

DESIGN AGENCY



DESIGNER CHECKER  
CAH GTF

REVIEWER  
AS 6-7-22

PROJECT ID  
102789

SUBSET TOTAL  
1 2

SHEET TOTAL  
19 28

**ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T= 1 1/2") (ACCELERATED)**  
**ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY, AS PER PLAN (ACCELERATED)**  
 (FOR BRIDGE BUT-127-7.28)

THIS ITEM SHALL CONFORM TO SUPPLEMENTAL SPECIFICATION 848 WITH THE FOLLOWING CONDITIONS AND REVISIONS:

REVISIONS TO 848.15: AT THE OPTION OF THE ENGINEER, THE CONTRACTOR SHALL MAKE ONE OR MORE, ONE CUBIC YARD, TRIAL BATCHES OF OVERLAY MATERIAL AT LEAST 30 DAYS BEFORE THE OVERLAY IS TO BE PLACED. DEMONSTRATE THE ABILITY TO MEET 848.26 AND 848.31. DEVELOP BEAM BREAK MATURITY CURVES.

REVISIONS TO 848.20: MECHANICAL MEANS MAY BE USED TO REMOVE THE TOP 0.75 INCH OF THE ORIGINAL DECK. THE REMAINING 0.5 INCH OF ORIGINAL DECK SHALL BE REMOVED BY HYDRODEMOLITION.

AT LEAST THIRTY DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL A SCHEDULE OF OVERLAY WORK ITEMS TO BE COMPLETED. THE SCHEDULE SHALL INCLUDE A BREAKDOWN OF ALL MAJOR WORK ACTIVITIES ON AN HOURLY BASIS. OVERLAY WORK SHALL NOT BEGIN UNTIL THE SCHEDULE IS APPROVED BY THE ENGINEER.

CONSTRUCTION JOINTS SHALL NOT BE PERMITTED IN THE WHEEL LINE UNLESS SHOWN IN THE PLANS.

REVISIONS TO 848.21: THE FINAL SOUNDING MAY TAKE PLACE WITHIN 24 HOURS OF A RAIN, AND THE DECK DOES NOT HAVE TO BE COMPLETELY DRY. HAND CHIPPING IS FOR THE PURPOSE OF CHIPPING AREAS WHERE THE HYDRODEMOLITION MACHINE DOES NOT HAVE ACCESS. IF THE DESIRED DEPTH IS ACHIEVED BY HYDRODEMOLITION, NO FURTHER REMOVAL IS NECESSARY.

REVISIONS TO 848.23: FULL DEPTH REPAIR WILL NOT BE REQUIRED IF LESS THAN ONE HALF OF THE DECK ORIGINAL CONCRETE THICKNESS IS SOUND.

REVISIONS TO 848.26: LONGITUDINAL GROOVES SHALL BE SAWED IN THE CONCRETE SURFACE OF THE TRAVELLED LANES PER 511.20, AFTER THE WET CURE IS COMPLETE. AFTER THE TEXTURING THE CONCRETE SURFACE, CLEAN THE SURFACE AND SPRAY AN UNIFORM APPLICATION OF CURING MATERIAL 705.07, TYPE 1 OR 1D, AS PER CMS 511.17 METHOD B OF MEMBRANE CURING. THE DECK SURFACE MUST BE DRY PRIOR TO PLACEMENT OF THE CURING MATERIAL. IF THE SAWING OF THE LONGITUDINAL GROOVES CANNOT BE DONE WITHIN THE SAME SHORT-TERM CLOSURE PERIOD AS THE OVERLAY, THE CONTRACTOR MAY ALLOW TRAFFIC ONTO THE OVERLAY, AND SHALL HAVE 24 HOURS FROM REMOVAL OF THE WET CURE TO SAW THE LONGITUDINAL GROOVES AND REAPPLY THE MEMBRANE-CURING COMPOUND.

4) REVISE 848.27, 848.28 AND 848.29. THE CONTRACTOR SHALL CONTINUE THE WET CURE FOR THE MAXIMUM NUMBER OF HOURS POSSIBLE DURING THE PERMITTED LANE CLOSURE. THE CLOCK STARTS FOR THE WET CURE WHEN THE OVERLAY PLACEMENT IS COMPLETE.

**TABLE 848.27 SCHEDULE OF DEDUCTIONS FOR WET CURE PERIOD LESS THAN 48 HOURS**

HOURS OF WET CURE	AMOUNT OF DEDUCTION FOR EACH HOUR LESS THAN 48 HOURS OF WET CURE PER BID PRICE OF SQUARE YARD OF CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (BY PERCENTAGE)
48-46	0%
45	2%
44	4%
43	6%
42	10%
41	14%
40	18%
39	22%
38	26%
37	30%
36	34%

IF THE CONTRACTOR FAILS TO OPEN LANES TO TRAFFIC AT THE TIMES REQUIRED IN THE MAINTENANCE OF TRAFFIC NOTES, THE CONTRACTOR WILL BE ASSESSED THE HIGHER OF THE TWO DISINCENTIVES FOR THE WET CURE PERIOD AND FOR THE MAINTENANCE OF TRAFFIC REQUIREMENT.

TRAFFIC WILL NOT BE PERMITTED ON THE FINISHED OVERLAY SURFACE UNTIL AFTER COMPLETION OF THE WET CURE, WHICH IS A MINIMUM OF 36 HOURS, AND AFTER TWO TEST BEAMS HAVE ATTAINED AN AVERAGE MODULUS OF RUPTURE OF 650 PSI.

FOR EACH POUR, THE CONTRACTOR SHALL PROVIDE ENOUGH MATERIAL FOR TWO BEAM BREAKS EACH AT 36 HOURS, 48 HOURS, 60 HOURS, AND 72 HOURS.

THE DEPARTMENT WILL PERFORM THE 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 UNTIL THE MODULUS OF RUPTURE OF TWO TESTS IS NOT LESS THAN 650 PSI.

REVISIONS TO 848.30: THE REMOVAL OPERATIONS SHALL NOT BEGIN IF SUSTAINED RAINS (5 HOURS OR MORE WITH BREAKS BETWEEN SHOWERS LESS THAN 1 1/2 HOURS) ARE PREDICTED WITHIN 48 HOURS OF COMMENCEMENT.

THE OVERLAY SURFACE EVAPORATION RATE REQUIREMENTS ARE IN EFFECT FROM 9:30 AM TO 11:00 PM. THEY ARE NOT IN EFFECT FROM 11:00 PM TO 9:30 AM.

PAYMENT FOR ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO COMPLETE THE ABOVE WORK SHALL BE INCLUDED IN ITEM 848- MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN, ON A SQUARE YARD BASIS.

**ITEM SPECIAL STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION**

ALL CONCRETE SHALL BE TESTED. ALL TESTING, INSPECTION AND QUALITY CONTROL FOR CONCRETE, NOT INCLUDED UNDER QC/QA PAY ITEMS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE TESTING CONSULTANT WITH PREVIOUS EXPERIENCE AND FAMILIARITY IN ODOT PROCEDURES, CONCRETE TESTING REQUIREMENTS AND CONCRETE TESTING DOCUMENTATION. AT LEAST 30 DAYS PRIOR TO CONCRETE PLACEMENT, SUBMIT TO THE ENGINEER FOR APPROVAL, THE PROPOSED CONCRETE TESTING CONSULTANT ALONG WITH THE RESUMES OF THE PROPOSED TESTING PERSONNEL.

TESTING CONCRETE FOR STRUCTURES AND PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PERFORMED AS OUTLINED IN CONSTRUCTION AND MATERIAL SPECIFICATIONS 455.

THROUGH THE CONTRACTOR, THE CONSULTANT SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONCRETE PLACED IS IN ACCORDANCE WITH THE SPECIFICATIONS. SUCH WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE ODOT CONSTRUCTION INSPECTION MANUAL OF PROCEDURES FOR CONCRETE. THE CONCRETE CONSULTANT SHALL PROVIDE THE NECESSARY TRAINED TECHNICIAN(S) AND EQUIPMENT AND SHALL FURNISH THE PROJECT ENGINEER WITH TWO (2) COPIES OF ALL TEST RESULTS WITHIN 24 HOURS AFTER COMPLETION OF CONCRETE PLACEMENT.

THE TECHNICIANS SHALL BE ACI LEVEL 1 CERTIFIED AND WILL BE REQUIRED TO DEMONSTRATE HIS/HER COMPETENCE AND EXPERIENCE LEVELS TO THE ENGINEER PRIOR TO BEGINNING WORK. THE ENGINEER WILL ORDER THE CONTRACTOR TO REPLACE ANY TECHNICIAN THAT IS NOT VERSED IN THE REQUIRED TESTING PROCEDURE.

THE TECHNICIAN SHALL VERBALLY NOTIFY THE ODOT PROJECT ENGINEER OF ANY FAILING TESTS AND SHALL SUBMIT FOLLOW-UP WRITTEN NOTIFICATION TO THE PROJECT ENGINEER OF REMEDIAL ACTION(S) TAKEN. TESTS SHALL BE TAKEN AS SPECIFIED WITHIN THE CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONCRETE MANUAL OR APPROPRIATE SUPPLEMENTAL SPECIFICATION AS LISTED IN THE PROPOSAL GOVERNING THE PROJECT. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE IMMEDIATE CORRECTIONS OR ADJUSTMENTS TO THE CONCRETE MIX VIA DIRECT COMMUNICATION WITH THE CONCRETE SUPPLIER'S PLANT PERSONNEL TO MAINTAIN UNINTERRUPTED COMPLIANCE WITH THE SPECIFICATIONS UPON NOTIFICATION OF CONCRETE MIX NON-COMPLIANCE BY THE CONSULTANT TECHNICIAN. THE PROJECT ENGINEER MAY REQUIRE MORE FREQUENT TESTING AS CONDITIONS WARRANT.

UPON COMPLETION OF DAILY CONCRETE PLACEMENT(S), THE CONCRETE CONSULTANT SHALL PROVIDE THE PROJECT ENGINEER WITH DAILY TEST REPORTS, TE-45'S, INSPECTORS DAILY REPORT AND SUPPORTING DOCUMENTATION FOR EACH ITEM OF CONCRETE WORK PERFORMED SEPARATED BY MIX DESIGN. SUBSEQUENTLY, UPON COMPLETION OF AN ENTIRE CONCRETE SPECIFICATION ITEM, THE CONCRETE CONSULTANT SHALL ALSO PROVIDE THE PROJECT ENGINEER WITH TWO (2) COPIES OF AN ADDITIONAL INSPECTION REPORT BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHICH CONTAINS THE TESTING RESULTS SUMMARY FOR EACH ITEM BY CONTRACT REFERENCE NUMBER AND THE CONSULTANT'S CONCLUSIONS RELATIVE TO SPECIFICATION COMPLIANCE FOR ALL CONCRETE TESTING WORK.

THE ODOT PROJECT ENGINEER RESERVES THE RIGHT TO MAKE UNANNOUNCED QUALITY-CONTROL TESTS TO VERIFY PROCEDURES USED AND RESULTS BEING OBTAINED BY THE CONTRACTOR. THE CONCRETE TECHNICIAN SHALL WORK UNDER THE DIRECTION OF A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, WHO WILL MONITOR THE CONCRETE TEST RESULTS. THE FINAL INSPECTION REPORTS FOR EACH COMPLETED ITEM SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO, CERTIFYING THAT ALL CONCRETE TESTS PROVIDED BY THE CONTRACTOR MET APPLICABLE CONTRACT REQUIREMENTS. A FINAL REPORT ISSUED BY THE CONSULTING FIRM SHALL CONTAIN A CERTIFIED STATEMENT OF COMPLIANCE WITH ODOT SPECIFICATIONS AND ANY OTHER CONCLUSIONS REGARDING THE CONCRETE MATERIALS INCORPORATED INTO THE PROJECT. SUCH STATEMENT SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER, STATE OF OHIO. AND, THE CONCRETE CONSULTANT SHALL BE REQUIRED TO ATTEND MONTHLY PROGRESS MEETINGS AS REQUIRED BY THE PROJECT ENGINEER.

ADDITIONALLY, THE CONTRACTOR SHALL BE REQUIRED TO KEEP A POSTED LIST OF BEAM AND CYLINDER IDENTIFICATION NUMBERS FOR THE PURPOSE OF IDENTIFYING THE CORRESPONDING PLACEMENT LOCATION AND CONCRETE SPECIFICATION ITEM.

PAYMENT SHALL BE BID AS LUMP SUM FOR ITEM SPECIAL STRUCTURES: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION. THE ITEM WILL BE PAID FOR

AS FOLLOWS:

UPON APPROVAL OF CONSULTANT ..... 20%  
 PROGRESSIVE EQUIVALENT PAYMENTS ..... 50%  
 UPON SUBMISSION OF FINAL REPORT ..... 30%

THE TECHNICIAN SHALL HAVE THE FULL EFFECT AND AUTHORITY OF AN ODOT PROJECT INSPECTOR IN DETERMINING ACCEPTABILITY OF MATERIAL AND CONCRETE PLACEMENT PRACTICES.

SFN 0902705

SFN 0902810

DESIGN AGENCY



DESIGNER CHECKER  
 CAH GTF

REVIEWER  
 AS 6-7-22

PROJECT ID  
 102789

SUBSET	TOTAL
2	2

SHEET	TOTAL
20	22

ESTIMATED QUANTITIES - STRUCTURE No.: BUT-US 127-0728					(100% 01/S>2/14 FUNDING)				
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	SHT. REF.
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP	LUMP	LUMP		19
516	10900	108	FT	ELASTOMERIC COMPRESSION SEAL			108		
516	31000	84	FT	JOINT SEALER (705.04)			84		
519	11101	47	SF	PATCHING CONCRETE STRUCTURES, AS PER PLAN			47		19
SPECIAL	530E00200	LS	LUMP	STRUCTURES, MISC.: CONSULTANT FOR CONCRETE QUALITY CONTROL INCLUDING TESTING AND INSPECTION	LUMP	LUMP	LUMP		20
844	10000	751	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION	8	743			
848	10001	1134	SY	MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T=1.50") (ACCELERATED)			901	233.3	19, 25
848	20000	1134	SY	SURFACE PREPARATION USING HYDRODEMOLITION			901	233.3	
848	30000	29	CY	MICROSILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY (ACCELERATED)			23	6	19
848	50000	23	SY	HAND CHIPPING			18	5	
848	50100	LS	LUMP	TEST SLAB			LUMP		
848	50200	11	CY	FULL DEPTH REPAIR			9	2	

ESTIMATED QUANTITIES - STRUCTURE No.: BUT-US 127-1198					(100% 01/S>2/14 FUNDING)				
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENT	PIERS	SUPERSTRUCTURE	GENERAL	SHT. REF.
202	11203	LS	LUMP	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	LUMP		LUMP		19
516	31000	68	FT	JOINT SEALER (705.04)			68		
517	75600	230	FT	DEEP BEAM BRIDGE RETROFIT RAILING			130	100	
518	22300	184	FT	SPECIAL - STEEL DRIP STRIP			184		
848	10001	416	SY	MICROSILICA MODIFIED CONCRETE OVERLAY USING HYDRODEMOLITION, AS PER PLAN (T=1.50")			416		20, 28
848	20000	416	SY	SURFACE PREPARATION USING HYDRODEMOLITION			416		
848	30000	12	CY	MICROSILICA MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS), MATERIAL ONLY			12		20
848	50000	4	SY	HAND CHIPPING			4		
848	50100	LS	LUMP	TEST SLAB			LUMP		

SFN 0902705

SFN 0902810

DESIGN AGENCY



DESIGNER CHECKER  
 CAH GTF

REVIEWER  
 AS 6-7-22

PROJECT ID  
 102789

SUBSET	TOTAL
1	1

SHEET	TOTAL
21	28