

ITEM 602 - STONE MASONRY REPAIRS

1. TUCK POINT ALL BRICK AND STONE MORTAR JOINTS THAT ARE CRACKED, DETERIORATED, OR SHOWING EFFLORESCENCE TO THE SATISFACTION OF THE ENGINEER. THE ENTIRE SURFACES OF THE ARCH AND WALLS HAVE BEEN INCLUDED IN THE CALCULATED QUANTITIES, HOWEVER THERE MAY BE AREAS THAT DO NOT REQUIRE REPAIR. WHERE TUCK-POINTING IS REQUIRED, THE DEPTH OF THE TUCK-POINTING SHALL BE 2 TO 2.5 TIMES THE THICKNESS OF THE JOINT. CARE SHALL BE TAKEN WHEN REMOVING THE EXISTING JOINTS TO ENSURE THAT THE EXISTING BRICKS AND STONES ARE NOT DAMAGED. DAMAGED BRICKS AND STONES WILL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ALL JOINTS AND SURROUNDING STONES SHALL BE MISTED OR WETTED FOR AT LEAST AN HOUR PRIOR TO POINTING. THE TOOLED FINISH SHALL MATCH THAT OF THE EXISITNG TOOLED FINISH.
2. THE SAND SHALL BE ROUNDED OR NATURAL SAND, MEETING THE REQUIREMENTS OF 703.03. MANUFACTURED SAND OR ACBFS SAND IS TO NOT BE USED. THE COLOR OF THE PROPOSED SAND SHALL MATCH THE EXISTING MORTAR.
3. CLEAN THE BRICK SURFACES AND MORTAR SURFACES OF EFFLORESCENCE AND DIRT SUFFICIENT FOR INSPECTION BY THE ENGINEER. ONLY A LOW PRESSURE WATER BLAST (100 PSI MAX) AND HAND SCRUBBING WITH A NATURAL BRISTLE BRUSH ARE PERMITTED. DETERGENTS, HIGH PRESSURE, OR ABRASIVE BLASTS ARE NOT PERMITTED.
4. THE TUCK-POINT CONTRACTOR SHALL HAVE A MINIMUM OF 5 YEARS EXPERIENCE IN REPOINTING STRUCTURES AND SHALL HAVE COMPLETED A MINIMUM OF 5 REPOINTING PROJECTS ON HISTORIC STRUCTURES. REFERENCES OF PAST PROJECT SHALL BE PROVIDED. UNSATISFACTORY REFERENCES SHALL BE MEANS FOR DISQUALIFICATION OF THE CONTRACTOR'S TUCK-POINT SUBCONTRACTOR.
5. MORTAR POINTING, 0"-2" DEEP, FOR THE BRIDGE ARCH (STONE/BRICK) AND STONE WALLS SHALL BE CEMENT-LIME BASED AND SHALL BE PROPORTIONED PER THE MIX BELOW.
6. MORTAR REBUILDING, MORE THAN 2" DEEP, OR THE BRIDGE ARCH (STONE/BRICK) AND STONE WALLS SHALL BE CEMENT-LIME BASED AND SHALL BE PROPORTIONED PER THE MIX BELOW.
7. MORTAR SHALL BE CEMENT-LIME BASED, AND THE MIX SHALL BE PROPORTIONED AS FOLLOWS:

PORTLAND CEMENT (WHITE, NON-STAINING) - 4 CUPS  
HYDRATED LIME - 1 FIVE GALLON BUCKET  
SAND - 2 FIVE GALLON BUCKETS  
WATER - ENOUGH TO FORM A WORKABLE MIX

8. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED WITH ITEMS:
- ITEM 602 MASONRY, MISC. TUCK POINTING BRICK, 0"-2" DEEP (SQ. FT.)
- ITEM 602 SF MASONRY, MISC. TUCK POINTING STONE, 0"-2" DEEP (SQ. FT.)
- ITEM 602 MASONRY, MISC. TUCK POINTING STONE, MORE THAN 2" DEEP (CU. YD.)

TUCK POINTING STONE MASONRY, MORE THAN 2" DEEP WILL REQUIRE PLACING MORTAR TO FILL VOIDS BEHIND STONES TO A MAXIMUM DEPTH OF 12".

FOR BIDDING PURPOSES, IT IS ASSUMED THAT ALL STONE WILL REQUIRE TUCK POINTING TO A MINIMUM OF 2" AND ALL BRICK WILL REQUIRE TUCK POINTING TO A MAXIMUM OF 2".

ITEM 602 - MASONRY, MISC.: REPLACEMENT STONE

THE CONTRACTOR SHALL REMOVE AREAS OF DETERIORATED STONE AND REPLACE WITH SOLID STONE AS DETERMINED IN THE FIELD. WHERE DETERIORATION OF EX. STONE EXCEEDS 6 INCHES IN DEPTH, THE CONTRACTOR SHALL PROVIDE NEW STONES OF SIMILAR COMPOSITION SIZED TO THE PORTIONS REMOVED. THESE SHALL BE MORTARED IN PLACE ON ALL CONTACT SURFACES. A QUANTITY OF 10 STONES FOR QUANTITY ESTIMATION PURPOSES HAS BEEN CARRIED TO THE GENERAL SUMMARY. FINAL PAY QUANTITIES SHALL BE BASED UPON THE REPAIRED AREAS AS DIRECTED AND ACCEPTED BY THE ENGINEER.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY MISC.: REPLACEMENT STONE.

ITEM 602 - MASONRY, MISC.: CLEANING MASONRY

THE CONTRACTOR SHALL CLEAN THE BRICK SURFACES AND MORTAR SURFACES OF EFFLORESCENCE AND DIRT SUFFICIENT FOR INSPECTION BY THE ENGINEER. ONLY A LOW PRESSURE WATER BLAST (100 PSI MAX) AND HAND SCRUBBING WITH A NATURAL BRISTLE BRUSH ARE PERMITTED. DETERGENTS, HIGH PRESSURE, OR ABRASIVE BLASTS ARE NOT PERMITTED.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 602 - MASONRY MISC.: CLEANING MASONRY

LEGEND

"CMS" REFERS TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION "CONSTRUCTION AND MATERIALS SPECIFICATION", CURRENT EDITION

"SCD" REFERS TO "STANDARD CONSTRUCTION DRAWING"

STRUCTURE NOTES - 3  
BRIDGE No.: HAM-127-1188  
US 127 (HAMILTON AVE.) OVER WEST FORK MILL CREEK

SFN	
3111431	
DESIGN AGENCY	
	
DESIGNER	CHECKER
CAH	GTF
REVIEWER	
RSK 07-08-24	
PROJECT ID	
102749	
SUBSET	TOTAL
04	08
SHEET	TOTAL
11	15