

FOR EACH ITEM 513E95030 – STRUCTURAL STEEL, MISC: STEEL PLATE CONFINEMENT ASSEMBLY INSTALLATION. 58 SQUARE FEET OF TROWELABLE MORTAR HAS BEEN INCLUDED IN THE ESTIMATED QUANTITY FOR ITEM SPECIAL - STRUCTURES: PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR. THE MORTAR IN THESE AREAS SHALL BE APPLIED TO THE EAST AND WEST COLUMN FACES AND TO THE END FACE RECEIVING THE STEEL PLATE CONFINEMENT ASSEMBLY INSTALLATION FOR THE ENTIRE HEIGHT OF THE SECOND COLUMN SEGMENT AS INDICATED IN THE PLANS, AND COVER ALL EXPOSED EXISTING REINFORCING AND THE OUTER THREADED BARS OF THE STEEL PLATE CONFINEMENT ASSEMBLY. THE INSTALLATION OF THE STEEL PLATE CONFINEMENT ASSEMBLIES

METHOD OF MEASUREMENT. THE DEPARTMENT WILL MEASURE THE TROWELABLE MORTAR BY THE NUMBER OF SQUARE FEET OF PIER COLUMN REPAIRED. THE DEPARTMENT WILL MEASURE ALL COMPLETED, TESTED, AND APPROVED PATCHES, IRRESPECTIVE OF DEPTH OR THICKNESS OF THE PATCH. THE DEPARTMENT WILL SEPARATELY MEASURE THE NUMBER OF INSTALLED AND ACCEPTED

BASIS OF PAYMENT. THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL REINFORCEMENT TO REPLACE THAT DAMAGED BY THE CONTRACTOR'S OPERATIONS. THE DEPARTMENT WILL NOT PAY FOR REMOVING. REPLACING. AND RE-INSPECTING OF DEFECTIVE PATCHES AS DETERMINED BY SOUNDING, VISIBLE CRACKS, OR UNACCEPTABLE CORES. THE DEPARTMENT WILL SEPARATELY PAY FOR FURNISHING AND INSTALLING REINFORCING STEEL THAT IS USED TO REPLACE EXISTING REINFORCING DEEMED BY THE ENGINEER TO BE UNUSABLE BECAUSE OF CORROSION. THE DEPARTMENT WILL SEPARATELY PAY FOR FURNISHING AND INSTALLING GALVANIC ANODES IN ACCORDANCE WITH SS 844.

THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE

DESCRIPTION 530E00600 SPECIAL SQUARE FOOT STRUCTURES: PATCHING

ITEM 513 – STRUCTURAL STEEL, MISC.: STEEL PLATE CONFINEMENT ASSEMBLY

IN ADDITION TO THE REQUIREMENTS OF ITEM 513, THIS WORK CONSISTS OF FURNISHING AND FABRICATING STEEL PLATES. FURNISHING AND INSTALLING THREADED RODS AND ASSOCIATED NUTS AND WASHERS. PREPARING THE EXISTING CONCRETE SURFACES. LOCATING THE EXISTING PIER COLUMN REINFORCING. DRILLING HOLES THROUGH THE EXISTING PIER COLUMNS, AND COMPLETING THE INSTALLATION OF ALL STEEL CONFINEMENT COMPONENTS. THIS WORK ALSO INCLUDES PROVIDING THE NECESSARY LABOR, MATERIALS, AND EQUIPMENT TO ACCESS THE

STEEL FABRICATION AND MATERIALS SHALL BE PER CMS 513 (LEVEL

THE EXISTING ARCHITECTURAL REVEAL/EXTENSION AT THE COLUMN CORNERS SHALL BE REMOVED TO PROVIDE A UNIFORM BEARING SURFACE FOR THE STEEL CONFINEMENT PLATE. ALL SOUND AND UNSOUND CONCRETE SHALL BE REMOVED TO PROVIDE A UNIFORM BEARING SURFACE FOR THE STEEL PLATES. REMOVAL SHALL BE INCLUDED IN THE COST OF THIS REPAIR AND SHALL BE PERFORMED AS PER SS843 REQUIREMENTS. AS DIRECTED BY THE ENGINEER. USE A BUSHHAMMER OR GRINDER FOLLOWED BY A THIN FILM OF PORTLAND CEMENT MORTAR OR

FURNISH THREADED RODS, NUTS, AND WASHERS PER CMS 711.09. THREADED RODS, WITH A HEAVY DUTY WASHER AND TWO NUTS ON EACH END, MAY BE REPLACED BY ASTM F3125, GRADE A325, BOLTS

ALL STEEL PLATES, THREADED RODS, NUTS, WASHERS, AND OTHER STEEL COMPONENTS SHALL BE GALVANIZED PER CMS 711.02.

FABRICATE THE STEEL PLATES WITH OVERSIZED HOLES FOR THE

PRIOR TO FIELD DRILLING HOLES THROUGH THE PIER COLUMNS AND FABRICATING THE STEEL PLATES, LOCATE THE EXISTING REINFORCING STEEL IN THE VICINITY OF THE PROPOSED HOLES TO VERIFY THE DRILLING OPERATION WILL NOT DAMAGE THE EXISTING REINFORCING. IF EXISTING REINFORCING STEEL INTERFERES WITH A PROPOSED HOLE LOCATION AND FIELD-FABRICATING HORIZONTAL, LONG SLOTTED HOLES PER AISC TABLE J3.3 IN THE PLATE WILL NOT ACHIEVE A PROPER FIT, A NEW GALVANIZED STEEL PLATE SHALL BE FURNISHED TO FIT THE REVISED HOLE PATTERN AT NO COST TO THE DEPARTMENT. THE FIELD-DRILLED HOLES THROUGH THE PIER COLUMN SHALL NOT BE MORE THAN 1/8" LARGER IN DIAMETER THAN THE THREADED ROD.

AFTER INSTALLATION OF THE STEEL PLATE CONFINEMENT ASSEMBLIES HAS BEEN COMPLETED AND ACCEPTED, APPLY TROWELABLE MORTAR IN THESE AREAS TO COVER ALL EXPOSED EXISTING REINFORCING STEEL AND THE OUTER THREADED RODS OF THE STEEL PLATE CONFINEMENT ASSEMBLY. FIFTY-EIGHT (58) SQUARE FEET OF TROWELABLE MORTAR HAS BEEN INCLUDED IN THE ESTIMATED QUANTITY FOR ITEM SPECIAL - STRUCTURES: PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR FOR EACH STEEL PLATE CONFINEMENT ASSEMBLY.

METHOD OF MEASUREMENT. THE DEPARTMENT WILL MEASURE THE STEEL PLATE CONFINEMENT ASSEMBLIES BY THE NUMBER OF EACH. EACH ASSEMBLY INCLUDES 2 STEEL PLATES. 4 THREADED RODS, 16 NUTS, AND 8 WASHERS.

BASIS OF PAYMENT. THE DEPARTMENT WILL CONSIDER THE COSTS FOR REMOVING EXISTING CONCRETE AND PROVIDING A UNIFORM BEARING SURFACE FOR THE STEEL CONFINEMENT PLATE AS INCIDENTAL TO THIS WORK. THE DEPARTMENT WILL CONSIDER THE COSTS FOR DRILLING THREADED ROD HOLES THROUGH THE EXISTING CONCRETE AS INCIDENTAL TO THIS WORK. THE DEPARTMENT WILL NOT PAY FOR FURNISHING NEW STEEL PLATES SO THE THREADED ROD HOLE LOCATIONS DO NOT INTERFERE WITH EXISTING REINFORCING STEEL, IF THE EXISTING REINFORCING WAS NOT PROPERLY LOCATED PRIOR TO FABRICATING THE PLATES. THE DEPARTMENT WILL SEPARATELY PAY FOR APPLYING TROWELABLE MORTAR. THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF STEEL PLATE CONFINEMENT ASSEMBLIES AS FOLLOWS:

ITEM DESCRIPTION UNIT 513E95030 EACH STRUCTURAL STEEL, MISC: STEEL PLATE CONFINEMENT ASSEMBLY

	STRUCTURE GENERAL NOTES BRIDGE NO. SUM-00082-00.000 OVER CUYAHOGA RIVER, CVSR RAILROAD, BIKE PATHS
	SFN 7706871 DESIGN AGENCY
	GFT
	designer checker MTO HHH
	REVIEWER EFD PROJECT ID 107247
	SUBSET TOTAL 1A 29 SHEET TOTAL P.6A 34
FILE: \$FILEABBF	KEV\$