

**ITEM 514 - FIELD PAINTING OF DAMAGED STRUCTURAL STEEL, AS PER PLAN (ONE COAT) (CONTINUED)**

**7.0 BASIS OF PAYMENT** THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT PRICES AS FOLLOWS:

THE DEPARTMENT MAY CONSIDER PAINT AS ELIGIBLE FOR PAYMENT FOR MATERIAL ON-HAND AS SPECIFIED IN 109.10, HOWEVER, ONLY PAINT THAT THE CONTRACTOR CAN PROVE TO THE ENGINEER WILL BE USED DURING THE CONSTRUCTION SEASON IS ELIGIBLE FOR PAYMENT. THE CONTRACTOR SHALL PROVIDE THE ENGINEER CALCULATIONS INDICATING THE TOTAL SQUARE FEET OF STEEL TO BE PAINTED DURING THE CONSTRUCTION SEASON. THE CONTRACTOR SHALL ALSO PROVIDE CALCULATIONS SHOWING THE TOTAL NUMBER OF GALLONS REQUIRED.

IF THE CONTRACTOR CAUSES DAMAGE OR INJURY TO PUBLIC OR PRIVATE PROPERTY, THE DEPARTMENT WILL NOT PAY FOR RESTORING THE PROPERTY TO ITS ORIGINAL CONDITION.

THE DEPARTMENT WILL NOT PAY FOR REPAIRING ADJACENT COATINGS DAMAGED DURING THE WASHING, POWER TOOL CLEANING OR BLAST CLEANING OPERATION.

THE DEPARTMENT WILL NOT PAY FOR REMOVING AND REPLACING AN AREA OF COATING BECAUSE A SPOT OR MAXIMUM AVERAGE THICKNESS EXCEEDS THE MAXIMUM SPOT THICKNESS.

THE DEPARTMENT WILL NOT PAY FOR ADDITIONAL TESTING REQUIRED BY ANY HAULER, TREATMENT FACILITY, DISPOSAL FACILITY OR LANDFILL.

THE DEPARTMENT WILL NOT PAY FOR ACCESSING, INSPECTING, AND REPAIRING AREAS THAT ARE NOT FOUND TO BE IN CONFORMANCE WITH THE SPECIFICATIONS AND PERTINENT CONTRACT DOCUMENTS.

ALL OTHER REQUIREMENTS OF THIS FIELD PAINTING SPECIFICATION ARE CONSIDERED INCIDENTAL TO THE WORK.

ITEM	UNIT	DESCRIPTION
514	SQUARE FEET	FIELD PAINTING OF DAMAGED STRUCTURAL STEEL - ONE COAT, AS PER PLAN

**ITEM 516 - ELASTOMERIC STRIP SEAL WITHOUT STEEL EXTRUSIONS, AS PER PLAN**

AT LOCATION 1 (CUY-71-1188), THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO REMOVE AND REPLACE THE EXISTING STRIP SEAL AT THE EXPANSION JOINT LOCATED AT THE REAR ABUTMENT SOUTHBOUND DIRECTION PER STANDARD DRAWING EXJ-4-87 AND AS NOTED ON THE PLANS. FURNISH SEALS IN ONE CONTINUOUS PIECE UNLESS OTHERWISE APPROVED BY THE ENGINEER.

**ITEM 516 - RESET BEARING, AS PER PLAN**

AT LOCATION 7 (CUY-480-1090), LOCATION 8 (CUY-480-1216), LOCATION 10 (CUY-480-2154), AND LOCATION 15 (LAK-20-1434), THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO RESET THE PLAN INDICATED BEARINGS TO THEIR PROPER ALIGNMENT. ASSURE ALL BEARINGS SIT PROPERLY ON THE SUBSTRUCTURE AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING".

ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - RESET BEARING, AS PER PLAN.

**ITEM 516 - REFURBISH AND RESET BEARING, AS PER PLAN**

AT LOCATION 3 (CUY-77-0909), LOCATION 5 (CUY-17-0449), LOCATION 6 (CUY-237-0813 SE), LOCATION 7 (CUY-480-1090), LOCATION 9 (CUY-480-2139), LOCATION 12 (CUY-480-2344), LOCATION 15 (LAK-20-1434), LOCATION 16 (LAK-84-1613), AND LOCATION 17 (LAK-44-0510) THIS ITEM SHALL INCLUDE ALL WORK NECESSARY TO PROPERLY ALIGN BRIDGE BEARINGS AS WELL AS THEIR CLEANING AND PAINTING. INCLUDED SHALL BE THE DISASSEMBLY OF THE BEARINGS, HAND TOOL CLEANING (GRINDING IF NECESSARY), PAINTING ACCORDING TO ITEM 514, REPLACEMENT OF ANY DAMAGED SHEET LEAD WITH PREFORMED BEARING PADS (711.21), INSTALLATION OF ANY NECESSARY SINGLE THICKNESS STEEL SHIMS OF THE SAME SIZE AS THE BEARINGS TO PROVIDE A SNUG FIT, REALIGNMENT OF THE UPPER BEARING PLATE BY REMOVING EXISTING WELDS AND RE-WELDING SO THAT THE BEARINGS ARE VERTICALLY ALIGNED AT 60-DEGREES F [15-DEGREES C], LUBRICATING SLIDING SURFACES, AND REASSEMBLY OF THE BEARINGS.

ASSURE ALL BEARINGS ARE SHIMMED ADEQUATELY AND THAT NO BEAMS AND/OR BEARING DEVICES ARE "FLOATING". AT NO ADDITIONAL COST TO THE STATE, THE CONTRACTOR MAY INSTALL NEW BEARINGS OF THE SAME TYPE AS THE EXISTING IN PLACE OF REFURBISHING THE BEARINGS. NEW BEARINGS SHALL BE PAINTED PER ITEM 514.

PAINT AND/OR OVERSPRAY SHALL NOT BE PERMITTED ON THE CONCRETE SURFACES.

ALL WORK SHALL BE TO THE SATISFACTION OF THE ENGINEER. PAYMENT FOR ALL OF THE ABOVE DESCRIBED LABOR AND MATERIALS WILL BE MADE AT THE CONTRACT PRICE BID FOR ITEM 516 - REFURBISH AND RESET BEARING, AS PER PLAN.

**ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN**

AT LOCATION 1 (CUY-71-1188), LOCATION 3 (CUY-77-0909), LOCATION 5 (CUY-17-0449), LOCATION 6 (CUY-237-0813 SE), LOCATION 7 (CUY-480-1090), LOCATION 8 (CUY-480-1216), LOCATION 9 (CUY-480-2139), LOCATION 10 (CUY-480-2154), LOCATION 12 (CUY-480-2344), LOCATION 15 (LAK-20-1434), LOCATION 16 (LAK-84-1613), AND LOCATION 17 (LAK-44-0510) THIS WORK INCLUDES RAISING OR REPOSITIONING EXISTING STRUCTURES TO PERFORM THE WORK DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS, CRACKING OF THE CONCRETE SUPERSTRUCTURE, SEPARATION OF THE CONCRETE DECK FROM THE STEEL STRINGERS OR OTHER DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL. EPOXY INJECT ALL BEAMS THAT SEPARATE FROM THE DECK FOR THE DISTANCE OF THE SEPARATION IN ACCORDANCE WITH C&MS 512.07. THE DEPARTMENT WILL NOT PAY FOR THE COST OF THIS EPOXY INJECTION OR OTHER REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED AT ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS.

THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

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

AT LOCATION 7 (CUY-480-1090), LOCATION 8 (CUY-480-1216), LOCATION 9 (CUY-480-2139), LOCATION 15 (LAK-20-1434), LOCATION 16 (LAK-84-1613), AND LOCATION 17 (LAK-44-0510) 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.

AN ALLOWANCE OF 200 S.F. FOR EACH LOCATION IS INCLUDED IN THE CONTRACT DOCUMENTS TO PATCH DEFICIENT AREAS OF THE CONCRETE SUBSTRUCTURES UNLESS NOTED OTHERWISE. AREAS REQUIRING PATCHING WILL BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND REPAIRED AS PER THE REQUIREMENTS OF ITEM 519 - PATCHING CONCRETE STRUCTURE.

**ITEM 849 - STRAIGHTENING DAMAGED MEMBERS**

AT LOCATION 5 (CUY-17-0449) PERFORM STRAIGHTENING USING METHODS WHICH WILL NOT PERMANENTLY DAMAGE THE METAL'S MATERIAL PROPERTIES. SHARP KINKS AND BENDS MAY BE CAUSE FOR REJECTION OF THE WORK. HEAT MEMBERS USING CONTROLLED JACKING, PULLING OR RESTRAINING FORCES, SPECIFIED HEATING PATTERNS, AND CONTROLLED TEMPERATURES THAT RESULT IN CONTROLLED SHRINKAGE TO STRAIGHTEN THE MEMBER. DO NOT HEAT MEMBERS THEN USE LARGE JACKS OR PULLERS WHICH MECHANICALLY HOT WORK THE MATERIAL. MECHANICAL HOT WORK PERMANENTLY DAMAGES THE METAL'S MATERIAL PROPERTIES. PRIOR TO STRAIGHTENING A DAMAGED COMPRESSION MEMBER, INSTALL ADEQUATE BRACING TO SUPPORT LOADS AND PREVENT BUCKLING.

ALL EQUIPMENT, LABOR, MATERIAL, AND INCIDENTALS REQUIRED TO PERFORM WORK ABOVE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM 849 - STRAIGHTENING DAMAGED MEMBERS.

**ITEM SPECIAL - STRUCTURES: REPLACE KEEPER PLATES**

AT LOCATION 13 (LAK-44-0207 L) THIS WORK SHALL INCLUDE REPLACING KEEPER PLATES AT 3 ROCKER BEARINGS. REMOVE AND REPLACE (IN KIND) EXISTING KEEPER PLATES AT LOCATIONS INDICATED ON PLANS. CONTRACTOR SHALL CLEAN ALL LOOSE RUST AND DISINTEGRATED MATERIAL AT LEAST ONE INCH BEYOND REPAIR AREA PRIOR TO WELDING NEW KEEPER PLATES.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO REPAIR THE FASCIA GIRDER WEBS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: REPAIR CRACKED KEEPER PLATES.

**ITEM SPECIAL - STRUCTURES: STRUCTURE CLEANING**

THIS WORK WILL CONSIST OF CLEANING THE BEAM SEATS OF THE FOLLOWING STRUCTURES PER C&MS 514.14: LOCATION 8 (CUY-480-1216), LOCATION 9 (CUY-480-2139), LOCATION 10 (CUY-480-2154), LOCATION 12 (CUY-480-2344), LOCATION 15 (LAK-20-1434), LOCATION 16 (LAK-84-1613), AND LOCATION 17 (LAK-44-0510). ALSO, ALL DIRT AND DEBRIS ON THE ABUTMENTS, BEAM SEATS, AND PIER CAPS WILL BE REMOVED. THESE COMPONENTS SHALL NOT BE WASHED WITH POTABLE WATER. THIS WORK WILL BE COMPLETED PRIOR TO THE STEEL REPAIR AND PATCHING OPERATIONS. DISPOSE OF ALL REMOVED MATERIALS IN ACCORDANCE WITH C&MS 202. STRUCTURE CLEANING WILL BE PAID FOR AT THE LUMP SUM BID FOR ITEM SPECIAL - STRUCTURES: STRUCTURE CLEANING. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

**ITEM SPECIAL - STRUCTURES: RE-WELDING END CROSSFRAME MEMBERS**

THIS WORK SHALL INCLUDE RE-WELDING AT LOCATION 9 (CUY-480-2139), LOCATION 13 (LAK-44-0207L), AND LOCATION 17 (LAK-44-0510) WELDS SHALL MATCH EXISTING WELD DETAILS. FOR ADDITIONAL DETAILS NOT SHOWN IN PLANS, REFER TO GSD-1-96.

CLEAN AND PAINT AREAS OF COATING SYSTEM DAMAGED BY THIS WORK PER ITEM 513. STRUCTURAL STEEL, MISC.: COATING SYSTEM REPAIR. THE COATING SYSTEM REPAIR IS INCIDENTAL TO THIS PAY ITEM.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO REMOVE AND RE-WELD THE END CROSSFRAME MEMBERS AND REPAIR THE COATING SYSTEM SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: RE-WELDING END CROSSFRAME MEMBERS.

**ITEM SPECIAL - STRUCTURES: REMOVE ABANDONED SCUPPER BRACKETS**

AT LOCATION 1 (CUY-71-1188) AND LOCATION 3 (CUY-77-0909) THIS WORK SHALL INCLUDE REMOVING AND GRINDING FLUSH ABANDONED SCUPPER BRACKETS FROM BEAM WEBS.

ALL EQUIPMENT, LABOR, MATERIALS, AND INCIDENTALS REQUIRED TO REMOVE THE ABANDONED SCUPPER BRACKETS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: REMOVE ABANDONED SCUPPER BRACKETS.

**ITEM SPECIAL - STRUCTURES: REPLACE DRAINAGE CONDUIT**

AT LOCATION 15 (LAK-20-1434) THIS WORK SHALL INCLUDE REPLACING DRAINAGE AT THE INDICATED LOCATIONS ON THE PLANS. REPLACE EXISTING PIPE WITH 2" DIAMETER PVC PIPE AND REPLACE HOPPER AT TOP OF PIPE (IN-KIND).

ALL EQUIPMENT, LABOR, MATERIALS AND INCIDENTALS REQUIRED TO REPLACE DRAINAGE SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: REPAIR DRAINAGE AT LIGHT POLE PILASTER

**ITEM SPECIAL - STRUCTURES: REPLACE HORIZONTAL AND VERTICAL CURB PLATES**

AT LOCATION 15 (LAK-20-1434) THIS WORK SHALL INCLUDE REPLACING HORIZONTAL AND VERTICAL CURB PLATES AT THE INDICATED LOCATIONS ON THE PLANS. ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH C&MS 516.

ALL EQUIPMENT, LABOR, MATERIALS AND INCIDENTALS REQUIRED TO REPLACE CURB PLATES SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: REPLACE HORIZONTAL AND VERTICAL CURB PLATES.

**ITEM SPECIAL - STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL**

AT LOCATION 9 (CUY-480-2139) AND LOCATION 11 (CUY-480-2170 E) THIS WORK SHALL INCLUDE DRILLING A HOLE CENTERED ON THE TERMINATION POINT OF THE FATIGUE CRACKS LOCATED IN THE PLANS AND DETAILED IN THE INSPECTION REPORTS. THE DRILLED HOLE SHALL HAVE A MINIMUM DIAMETER OF 1" SMOOTH ALL EDGES OF THE DRILL HOLE AND REMOVE ALL BURRS. THIS WORK SHALL NOT BE PERFORMED UNTIL LOCATIONS ARE APPROVED BY THE ENGINEER.

ALL EQUIPMENT, LABOR, MATERIALS AND INCIDENTALS REQUIRED TO DRILL THE ENDS OF THE CRACKS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - STRUCTURES: DRILLING ENDS OF CRACKS IN STRUCTURAL STEEL.

DESIGN AGENCY



DESIGNER  
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REVIEWER  
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