

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 328	5R, Y, RS-1	CLAY	242	63
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 1  
17 SHEETS

CONTRACT NO. 74078

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2002; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2005 AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

**SCOPE OF WORK**

THE BRIDGE REHABILITATION PORTION OF THIS CONTRACT INCLUDES REMOVAL OF THE EXISTING BITUMINOUS WEARING SURFACE AND WATERPROOFING MEMBRANE SYSTEM AND PARTIAL AND FULL DEPTH PATCHING OF THE DECKS, THE REMOVAL AND REPLACEMENT OF THE EXPANSION JOINTS ON THE STRUCTURE, THE REMOVAL AND REPLACEMENT OF INDICATED BEARING ASSEMBLIES, CLEANING OF EXISTING BEARING ASSEMBLIES TO REMAIN, PATCHING OF SPALLED PARAPET RAIL AND CONSTRUCTION OF A MICROSILICA CONCRETE OVERLAY ON THE STRUCTURE AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

**GENERAL NOTES**

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

THE LOCATIONS OF THE EXISTING DECK DRAINS TO BE PLUGGED ARE APPROXIMATE. ANY DRAINS THAT ARE LOCATED WITHIN TEN FEET OF AN ABUTMENT OR PIER ARE TO BE PLUGGED. DRAIN EXTENSIONS REMOVED FOR PLUGGING DRAINS SHALL BE USED TO REPLACE DAMAGED OR MISSING EXTENSIONS AT OTHER LOCATIONS ON THE STRUCTURE.

FOLLOWING THE REMOVAL OF THE BITUMINOUS SURFACE AND WATERPROOFING, THE BRIDGE DECK SHALL BE SCARIFIED TO A DEPTH OF THREE-FOURTHS OF AN INCH. THE BRIDGE DECK MICROSILICA CONCRETE OVERLAY SHALL BE CONSTRUCTED AT A DEPTH OF THREE INCHES.

EXISTING REINFORCEMENT BARS SHALL BE CLEANED AND USED FOR NEW CONSTRUCTION. ALL NEW REINFORCEMENT BARS SHALL BE EPOXY COATED WITH EPOXY COATED BAR SPLICERS FOR STAGED CONSTRUCTION.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 or M322 GRADE 60.

ALL NEW STRUCTURAL STEEL SHALL CONFORM TO THE AASHTO CLASSIFICATION M-270 GRADE 36, UNLESS OTHERWISE SPECIFIED.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

EXISTING BEARINGS WHICH ARE TO REMAIN SHALL BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". POWER TOOL CLEANING-MODIFIED SP3, PAINTED WITH SYSTEM 4-PS/EM/AC.

EXISTING STRUCTURAL STEEL SHALL ONLY BE CLEANED AND PAINTED AS REQUIRED BY THE SPECIAL PROVISION "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

THE INORGANIC ZINC RICH PRIMER/ACRYLIC/ACRYLIC PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL EXCEPT WHERE OTHERWISE NOTED. THE COLOR OF THE ACRYLIC FINISH COAT SHALL BE INTERSTATE GREEN, MUNSHILL NO. 7.5G 4/8. SEE SPECIAL PROVISIONS FOR "CLEANING AND PAINTING NEW METAL STRUCTURES". EXPANSION JOINT PLATES AND ATTACHED BARS SHALL BE SHOP PAINTED WITH THE ZINC RICH PRIMER PER AASHTO M 300, TYPE1. COST INCLUDED WITH FURNISHING & ERECTING STRUCTURAL STEEL.

SPALLED AREAS OF THE INSIDE FACE OF THE EXISTING PARAPET SHALL BE REPAIRED USING POLYMER MODIFIED PORTLAND CEMENT MORTAR.

JOINT OPENINGS SHALL BE ADJUSTED ACCORDING TO ARTICLE 503.10(C) OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50° F.

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4", OPEN HOLES 1/16". UNLESS OTHERWISE NOTED.

SEE ROADWAY PLANS FOR THE GRADE UNDER THE EXISTING STRUCTURE.

**DESIGN STRESSES (REHAB)**

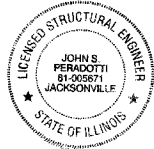
FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (Reinf.)  
fy = 36,000 psi (M 270, GRADE 36)

DESIGNED	B.W.P.
CHECKED	R.P.B.
DRAWN	D.J.S.
CHECKED	R.P.B.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	2599
CONCRETE REMOVAL	CU YD	21.6
STRIP SEAL EXPANSION JOINT ASSEMBLY	FOOT	70
NEOPRENE EXPANSION JOINT 4"	FOOT	69
CONCRETE SUPERSTRUCTURE	CU YD	23.0
BRIDGE DECK GROOVING	SQ YD	2480
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	5
ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	25
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	5200
JACK AND REMOVE EXISTING BEARINGS	EACH	30
REINFORCEMENT BARS, EPOXY COATED	POUND	3000
POLYMER MOD. PORTLAND CEMENT MORTAR	SQ FT	30
PLUG EXISTING DRAINS	EACH	82
CLEANING AND PAINTING EXISTING BEARINGS	EACH	40
BAR SPLICERS	EACH	54
BRIDGE DECK MICROSILICA CONCRETE OVERLAY	SQ YD	2599
BRIDGE DECK HYDRO-SCARIFICATION 1/4"	SQ YD	2599
FLOOR DRAIN EXTENSIONS	EACH	4
DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	100

\*SEE SPECIAL PROVISIONS



10/25/05  
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Licensed Structural Engineer  
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License Expires 11/30/06

**GENERAL NOTES  
AND BILL OF MATERIAL  
FAP 328 - SECTION 5BR-2  
OVER LITTLE WABASH RIVER  
CLAY COUNTY  
STATION 1281+15  
STRUCTURE NO. 013-0010**