

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES:**

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Areas of deck repairs shown are estimated. The Engineer shall show actual locations of deck repairs on the As-Built plans.

Existing reinforcement bars extending into the removal areas 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 is included with Concrete Removal.

All structural steel plates of the bearing assembly shall conform to the requirements of AASHTO M270, Grade 36, unless otherwise noted.

The Contractor shall provide support and/or shoring system for the slab and beam in the area of existing pier caps & existing bearing assembly removal and at other locations as required to maintain the existing deck profile. The support and/or shoring system shall be approved by the Engineer, however, such approval will not relieve the Contractor of his responsibility for the safety of the structure. See Special Provisions for "Jacking Existing Superstructure".

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beams. Any damage done by the Contractor to the PPC I-Beams during concrete removal or Deck Slab Repair operations is to be repaired to the satisfaction of the Engineer at the Contractor's expense.

All exposed concrete edges shall be chamfered  $\frac{3}{4}$ ", unless otherwise noted.

Reinforcement Bars shall conform to the requirements of ASTM A706, Grade 60. See Special Provisions.

Reinforcement bars designated (E) shall be epoxy coated.

All new structural steel shall be shop painted with an Inorganic Zinc Rich Primer per AASHTO M300, Type 1.

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Portland Cement Concrete Surface Removal - Butt Joint	Sq Yd	660
Hot-Mix Asphalt Surface Course, Mix "D", N50	Ton	171
Concrete Removal	Cu Yd	145.0
Protective Shield	Sq Yd	5,024
Concrete Structures	Cu Yd	86.1
Concrete Superstructure	Cu Yd	124.4
Bridge Deck Grooving	Sq Yd	3,350
Protective Coat	Sq Yd	3,570
Protective Coat (Special)	Sq Yd	1,286
Reinforcement Bars, Epoxy Coated	Pound	31,060
Preformed Joint Strip Seal	Foot	175
Elastomeric Bearing Assembly, Type II	Each	41
Anchor Bolts, 1"	Each	82
Concrete Sealer	Sq Ft	1,428
Epoxy Crack Injection	Foot	3
Approach Slab Repair (Partial Depth)	Sq Yd	22
Bridge Deck Hydro-Scarification $\frac{1}{2}$ "	Sq Yd	3,570
Deck Slab Repair (Full Depth, Type I)	Sq Yd	5
Deck Slab Repair (Full Depth, Type II)	Sq Yd	7
Drainage System	L Sum	1
Jacking Existing Superstructure	L Sum	1
Railroad Protective Liability Insurance	L Sum	1
*** Temporary Shoring and Cribbing	Each	1
** Drainage Scuppers, DS-33	Each	12
Washing and Cleaning	L Sum	1
Galvanic Anode	Each	122
Structural Repair of Concrete (Depth Greater than 5 Inches)	Sq Ft	155
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	1,835
Surface Filler (Special)	Gallon	4
* Bridge Deck Microsilica Concrete Overlay 2 $\frac{1}{4}$ "	Sq Yd	3,570
* Jack and Remove Existing Bearings	Each	10

\* Includes bearings at abutments only. For removal of bearings on Piers #4, #7, #8 and #12 see Sheet S30 of S43.

\*\* For bearing replacement and substructure work at Pier 7.

\*\*\* For pier cap and bearing replacement at Piers 4, 8 and 12.

**INDEX OF SHEETS**

- S1 GENERAL PLAN & ELEVATION
- S2 GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL
- S3 DECK CROSS SECTION
- S4 DECK REPAIRS-I
- S5 DECK REPAIRS-II
- S6 DECK REPAIRS-III
- S7 DECK REPAIRS-IV
- S8 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION AT PIERS #4, #8 & #12
- S9 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION DETAILS AT PIERS #4, #8 & #12
- S10 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION AT NORTH ABUTMENT
- S11 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION DETAILS AT NORTH ABUTMENT
- S12 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION AT SOUTH ABUTMENT
- S13 EXPANSION JOINT & DIAPHRAGM RECONSTRUCTION DETAILS AT SOUTH ABUTMENT
- S14 NORTH APPROACH SLAB PATCHING
- S15 SOUTH APPROACH SLAB PATCHING
- S16 EAST PARAPET REPAIRS-I
- S17 EAST PARAPET REPAIRS-II
- S18 WEST PARAPET REPAIRS-I
- S19 WEST PARAPET REPAIRS-II
- S20 NORTH APPROACH SLAB PARAPET REPAIRS
- S21 SOUTH APPROACH SLAB PARAPET REPAIRS
- S22 APPROACH SLAB PARAPET JOINT REPAIR DETAILS
- S23 DIAPHRAGM REPAIRS-I
- S24 DIAPHRAGM REPAIRS-II
- S25 DIAPHRAGM REPAIRS-III
- S26 DIAPHRAGM REPAIRS-IV
- S27 BEAM END REPAIRS-I
- S28 BEAM END REPAIRS-II
- S29 BEAM END REPAIRS-III
- S30 BEARING REPLACEMENT DETAILS
- S31 NORTH ABUTMENT REPAIRS
- S32 SOUTH ABUTMENT REPAIRS
- S33 PIERS #4, #8 & #12 CAP REPLACEMENT
- S34 PIER #4 REPAIRS
- S35 PIER #7 REPAIRS
- S36 PIER #14 REPAIRS
- S37 MSE RETAINING WALL "A" REPAIRS
- S38 MSE RETAINING WALLS "B" & "C" REPAIRS
- S39 MSE RETAINING WALL "D" REPAIRS
- S40 MSE RETAINING WALL TYPICAL PANEL DETAILS
- S41 DRAINAGE SYSTEM
- S42 DRAINAGE SCUPPER, DS-33
- S43 PREFORMED JOINT STRIP SEAL

**GENERAL NOTES, INDEX OF SHEETS & TOTAL BILL OF MATERIAL**  
IL. RTE. 251 OVER IL. RTE. 38  
C&NW R.R. AND B.N. R.R.  
F.A.P. RTE. 740 (IL. RTE. 251)  
SECTION (108HVB)M  
OGLE COUNTY  
STA. 856+44.00  
STRUCTURE NO. 071-0066

DESIGNED	2010
CHECKED	EXAMINED
DRAWN	PASSED
CHECKED	ENGINEER OF BRIDGES AND STRUCTURES

**CR**  
 CHRISTIAN-RODGE & ASSOCIATES, INC.  
 ENGINEERS-PLANNERS-SURVEYORS  
 211 WEST WACKER DRIVE  
 CHICAGO, ILLINOIS 60606  
 PHONE: (312)372-2023 FAX: (312)372-5274

SHEET NO. S2	F.A.P. RTE. 740	SECTION (108HVB)M	COUNTY OGLE	TOTAL SHEETS 55	SHEET NO. 9
S43 SHEETS	CONTRACT NO. 64G24			ILLINOIS FED. AID PROJECT	