

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A. 809		MONROE	9	6	4 SHEETS
FED. ROAD DIST. NO. 7	ILL. PROJ.	FED. AID PROJECT			

GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

The Contractor shall provide support and/or shoring systems for the slab and beam in the area of existing beam removal. See Special Provisions "Temporary Shoring and Cribbing" and "Temporary Slab Support System."

After the new beam is in its final position and/or beam straightening operations have been completed, the Engineer in the field shall check to see that the top flange is tight against the slab. If not, the Contractor shall inject epoxy between the existing concrete deck and the top flange of the beam. See Special Provision "Epoxy Injection".

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

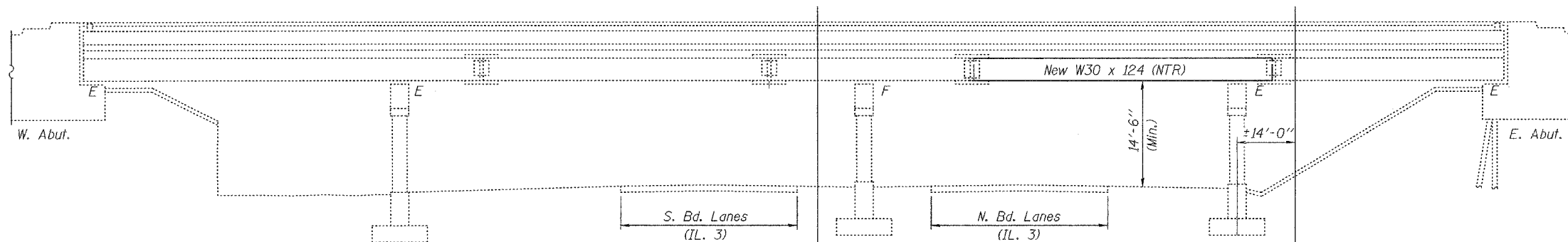
Cost of removal and re-installation of all members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included in the cost of Furnishing and Erecting Structural Steel.

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 final finish coat shall be Interstate Green, Munsell No. 7.5G 4/8. See Special Provision "Cleaning and Painting New Metal Structures".

Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures".

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project. 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 shall be included with Concrete Removal.

Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



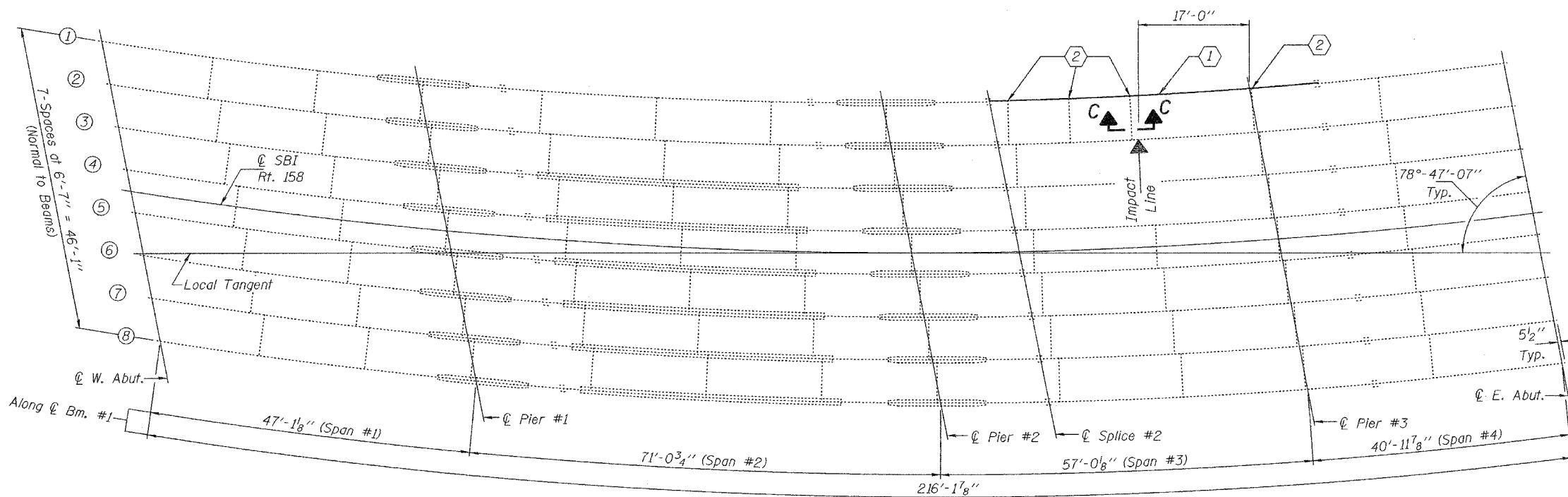
REACTION TABLE AT TEMPORARY SHORING

R ₁	(K)	15.6
R ₂	(K)	29.9
Imp.	(K)	9.0
R (Total)	(K)	54.5

ELEVATION
(Looking North)

* Remove and replace slopewall/sidewalk, if required. Cost included with Temporary Shoring and Cribbing.

Temporary shoring may be required to facilitate alignment of existing splice. Use 12" x 12" Timbers or HP's to be paid for as Temporary Shoring and Cribbing.
The shoring shall be removed as soon as possible after the splice is completed to minimize Traffic Control.



PLAN

For Section C-C see sheet 3 of 4.

Notes: ① Replace beam section.
② Replace diaphragm connection bolts.

CURVE DATA

Δ = 67°
D = 7°-30'
T = 505.64 Ft.
L = 893.33 Ft.
R = 763.94 Ft.
E = 152.18 Ft.
P.C. Sta. 105+86.80
P.T. Sta. 114+80.12

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	1.3
Concrete Superstructure	Cu. Yd.	1.3
Structural Steel Removal	Pound	6610
Furnishing and Erecting Structural Steel	Pound	6610
Temporary Slab Support System	L.S.	1
Temporary Shoring and Cribbing	L.S.	1

DESIGNED	Haha
CHECKED	Adrian T. Hallaway
DRAWN	balliva
CHECKED	ATH ASB

FEBRUARY 28, 2007
EXAMINED *[Signature]*
PASSED *[Signature]*
REPAIR PLANS UNIT CHIEF
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-2008

BRIDGE REPAIRS
IL 158 OVER IL 3
SBI RT. 158
MONROE COUNTY
SN 067-0006