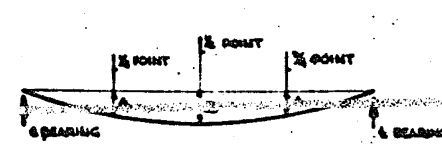


TABLE - TOP OF DIAPHRAGM ELEVATIONS

LOCATION	ELEV. A (PMS. 1-4)	ELEV. B (PMS. 6-7)
W. Abut.	40.107	39.536
Sp1, Pier1	41.757	41.187
Sp2, Pier1	41.784	41.215
Sp2, Pier2	42.786	42.216
Sp3, Pier2	42.807	42.239
E. Abut.	43.763	43.196

TABLE - DL DEFLECTIONS

BEAM NUMBER	SPAN 1		SPAN 2		SPAN 3	
	A	B	A	B	A	B
187	2"	2 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
234, 546	1 3/4"	2 1/4"	1 1/2"	1 1/2"	1 1/2"	1 3/4"



**STRUCTURAL STEEL NOTES**

Structural Steel shall be carbon steel and shall conform to A.S.T.M.-A7 Specifications, amended to date. Rivets for WF beams shall be 3/4" with 1/2" popenholes. All shop connections shall be riveted. Field connections shall be riveted except where inaccessibility prohibits driving of rivets high strength steel bolts shall be used. See Article 507 of the Standard Specifications. Welding shall conform to the Specifications of the American Welding Society for Highway and Railway Bridges as amended to date. Contact surfaces of shop welded or shop riveted structural steel shall not be painted. See Specifications concerning inaccessible surfaces (Art. 52.4f). Tops of beams that are to have concrete poured in contact with them shall not be painted. The Structural Steel shall be given one shop coat of red lead paint and two field coats of aluminum paint. Shear Connectors shall not be painted. Structural Steel shall be inspected by the Illinois Division of Highways before painting.

See Shts. 04 & 10 for Location of Expansion Device Assembly and required Flange punching of End Diaphragms.

NOTE: See Sheet No. 7 for additional details & Quantities & Bill of Material.

REVISIONS

DATE	BY	DESCRIPTION

DEPARTMENT OF HIGHWAYS

DANIEL RYAN  
SUPERVISOR OF HIGHWAYS

WILLIAM J. MORTIMER  
SUPERVISOR OF HIGHWAYS

FRAMING PLAN-STRUCTURAL STEEL  
EAST BOUND STONY ISLAND CONNECTOR  
OVER  
SOUTH ROUTE EXPRESSWAY

COMPUTED BY: [Signature] PROJECT: 21-90-5(60)-113  
DRAWN BY: [Signature] SCALE: AS NOTED  
CHECKED BY: [Signature] APPROVED: [Signature]

APPROVED: [Signature] DATE: May 11, 1960

90 666 6 37 330-5

2/22/05 PH

3/29/2013

SA1072.05-CADD-Structural-Steel-SN 0162470-CADD Sheets 062470-60J12-045-F103.dgn

BOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
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	-	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS (FOR INFORMATION ONLY)  
STRUCTURE NO. 016-2470  
SHEET NO. S-45 OF S-53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	420
CONTRACT NO. 60J12				

ILLINOIS FED. AID PROJECT