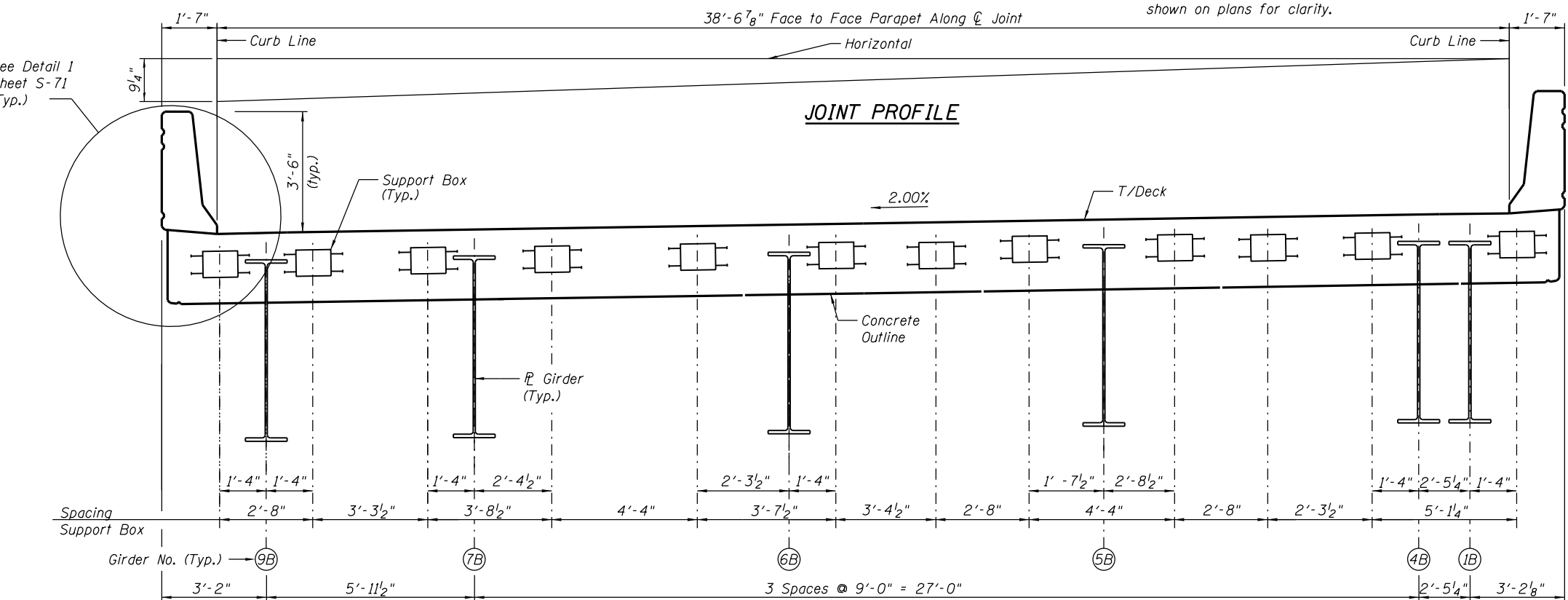


**PLAN**

Note:  
All Concrete Anchor Studs required are not shown on plans for clarity.



**SECTION A-A**  
(Looking Upstation)

**GENERAL NOTES:**

1. Modular expansion joint shall be designed according to Section 14 of the 2012 AASHTO specifications for HL-93 truck loading with impact and the Special Provision.
2. The joint shall be a shop-fabricated modular assembly with multiple support bars, edge and separation beams and transverse neoprene seals, providing a continuous seal across the deck.
3. Joint shall be fabricated and installed according to the manufacturer's recommendations and as specified in the special provision for a modular joint system and as approved the the Engineer.
4. Joint shall be fabricated to conform to the roadway profile and cross-slopes.
5. All exposed structural steel elements such as separation beams, edge beams, support bars, sliding plate assemblies and cover plates shall be fabricated with AASHTO M270 Grade 50 ksi steel.
6. Modular expansion joints shall be shipped in one piece unless noted.
7. Concrete anchor studs attached to the modular expansion joint shall conform to the requirements of Article 1006.32 of the Standard Specifications. The cost of the Concrete Anchor Studs shall be included with Modular Expansion Joint-Swivel, 6".
8. No aluminum components shall be allowed.
9. All splices of center beams and edge beams located in the roadway shall be full penetration welds. (Upturn splices may be partial penetration welds)
10. See deck reinforcement plan sheet for bar size, designation and blockout dimensions.
11. The swivel modular expansion joint system shall be limited to pre-approved systems as indicated in special provision for Modular Expansion Joint. The joint shall provide the movement as shown in Table A.
12. For Sections B-B and C-C, see Sheet S-71.
13. Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
14. Dimensions are measured along C of Joint.
15. Support box dimensions and spacing shown are conceptual only and subject to refinement by joint manufacturer.

**TABLE A**

Location	Longitudinal Movement (Inch)	Size (Inch)
Pier 2	4.5	6

**BILL OF MATERIAL**

Item	Unit	Total
Modular Expansion Joint-Swivel, 6"	Foot	40

0161705-60W28-5065-ExpJoint.dgn



USER NAME = floresg  
DESIGNED - VP  
CHECKED - EJO  
PLOT SCALE = N.T.S.  
DRAWN - MK  
PLOT DATE = 5/7/2014  
CHECKED - ATB

DESIGNED - VP  
CHECKED - EJO  
DRAWN - MK  
CHECKED - ATB

REVISED  
REVISED  
REVISED  
REVISED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**MODULAR EXPANSION JOINT - PIER 2**  
**STRUCTURE NO. 016-1705**

SHEET NO. S-65 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	381
CONTRACT NO.			60W28	
ILLINOIS FED. AID PROJECT				