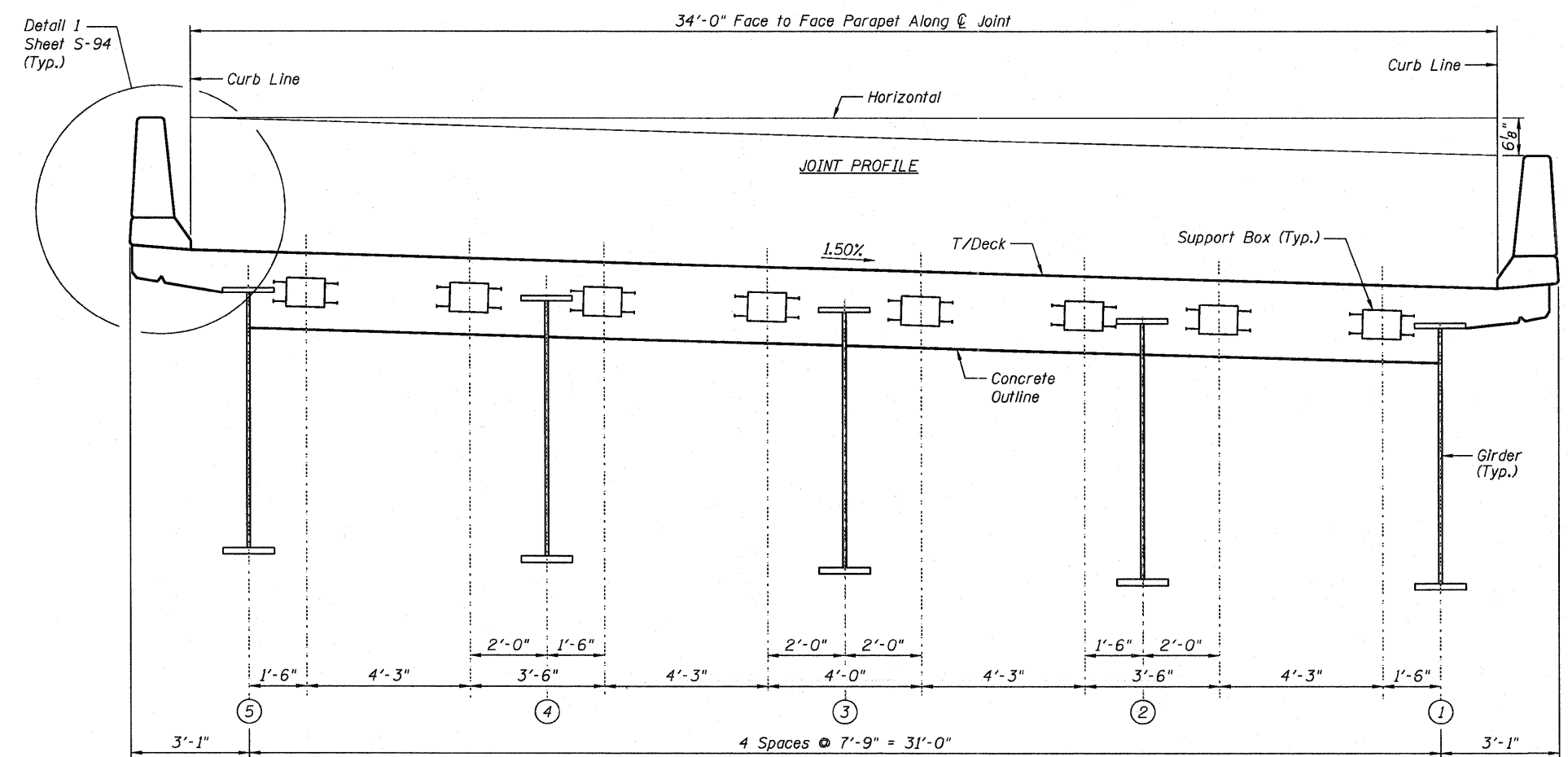


PLAN

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 2010 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 by 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 of the size specified.
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 shall be either the Maurer Swivel System by the D.S. Brown Company or the WABO X-CEL system by the Watson Bowman Acme Corporation. The joint shall provide the movement as shown in Table A.
12. For Details 1 and 2 and Sections B-B and C-C, see sheet S-94.
13. Modular expansion joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance

TABLE A

Location	Longitudinal Movement (Inch)	Size (Inch)
E. Abut.	8.18"	9"

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint-Swivel, 9"	Foot	34.0

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AECOM	ZROKA Engineering	USER NAME = Scott Whitney	DESIGNED - JLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MODULAR EXPANSION JOINT - S.N. 082-0324 - EAST ABUTMENT I-70E OVER I-55, CSX & KCS RAILROADS	F.A.I. RTE. 70	SECTION 82-1-B-2	COUNTY ST. CLAIR	TOTAL SHEETS 399	SHEET NO. 220
		PLOT SCALE = 2.0000' / IN.	CHECKED - DAZ	REVISED -			S.N. 082-0322 & S.N. 082-0324	CONTRACT NO. 76C76			
		PLOT DATE = 6/7/2011	DRAWN - SAW	REVISED -		SCALE: NONE	SHEET 5-93 OF 5-234 SHEETS	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
			DATE - 07-01-2011	REVISED -							