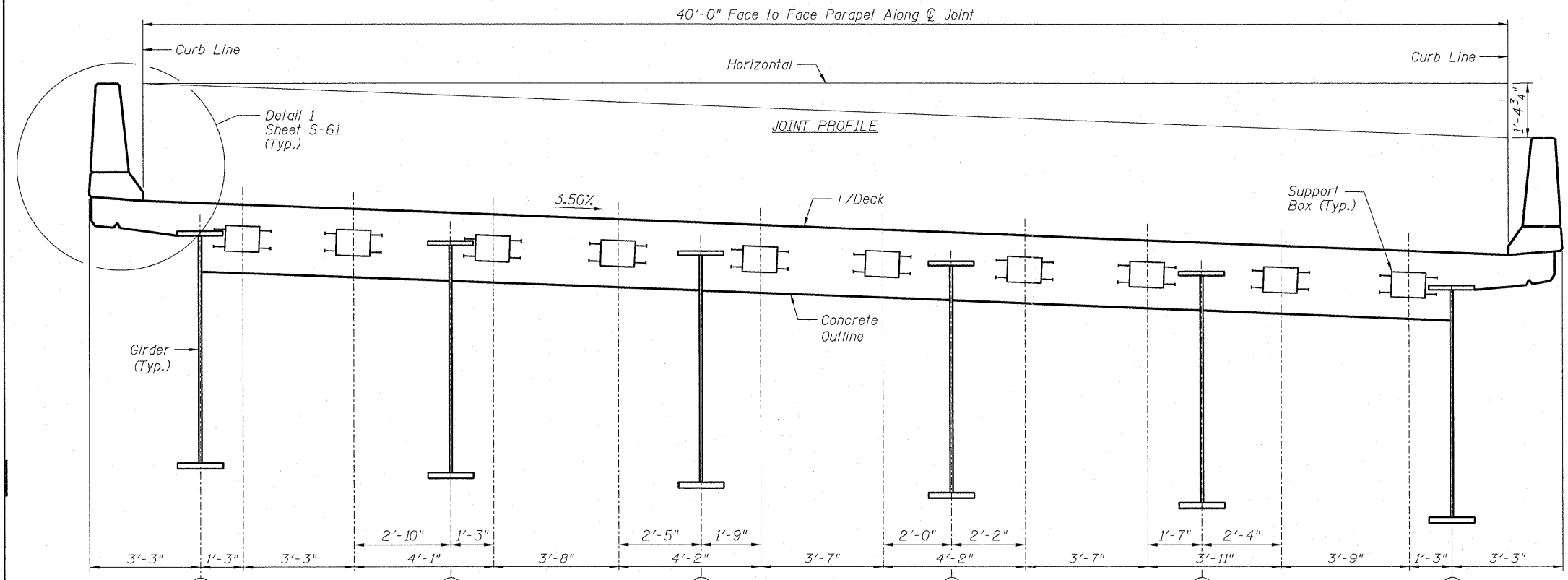


PLAN

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 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, 9".
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 Sections F-F and G-G, see sheet S-61.
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)
Pier 3	8.18	9

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint-Swivel, 9"	Foot	40

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AECOM	ZROKA <small>Engineering</small>	USER NAME = kritz	DESIGNED - JLA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MODULAR EXPANSION JOINT - PIER 3 S.N.082-0323 I-70W OVER I-55, CSX & KCS RAILROADS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		PLOT SCALE = 2.0000' / in.	DRAWN - DAZ	REVISED -			70	82-1-B-1	ST. CLAIR	319	174
		PLOT DATE = #DATE#	CHECKED - SAW	REVISED -	SCALE: NONE SHEET NO. 5-59 OF 5-138 SHEETS STA. TO STA.		S.N. 082-0323 & S.N. 082-0325 CONTRACT NO. 76C75				
		DATE - 3-18-11	REVISD -	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT						