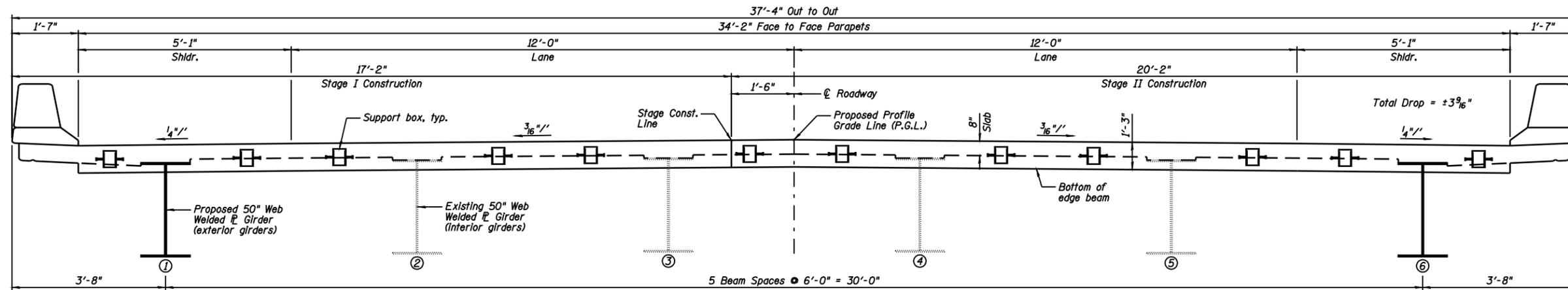
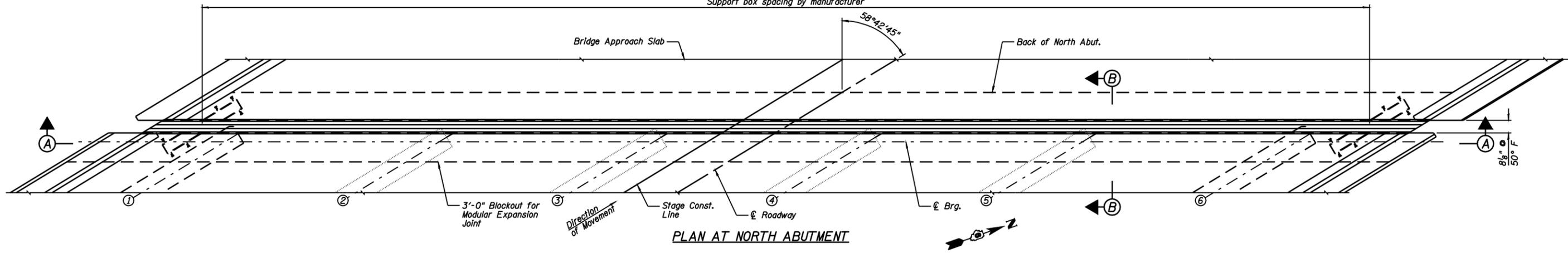


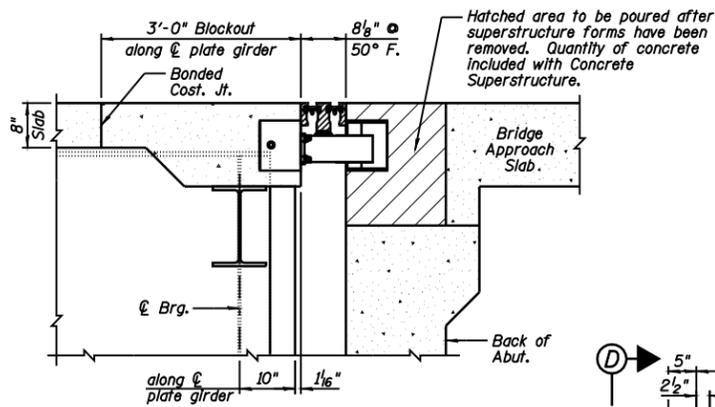
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Support box spacing by manufacturer

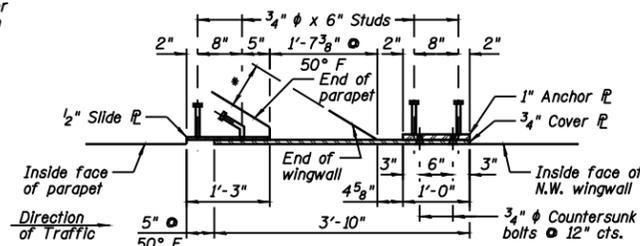


SECTION A-A

Unless noted otherwise, horizontal dimensions are at right angles.

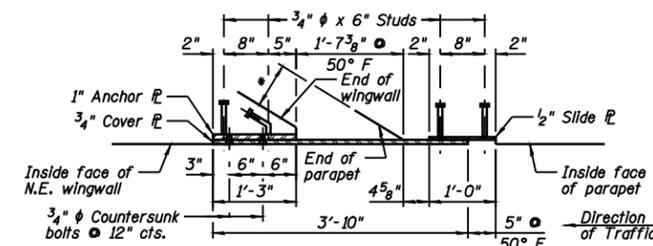


SECTION B-B



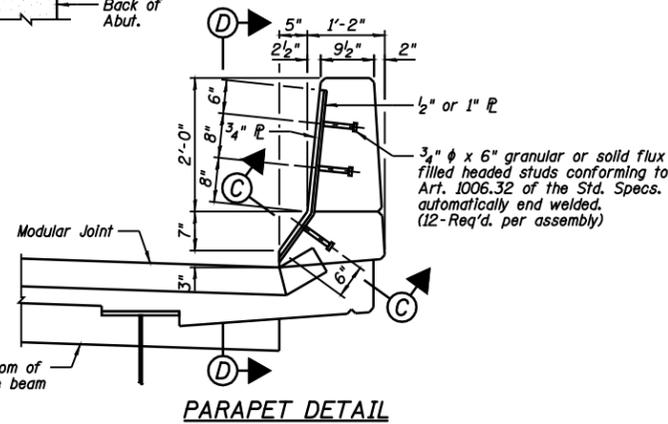
SECTION C-C (WEST END)

*8 1/2" @ 50° F

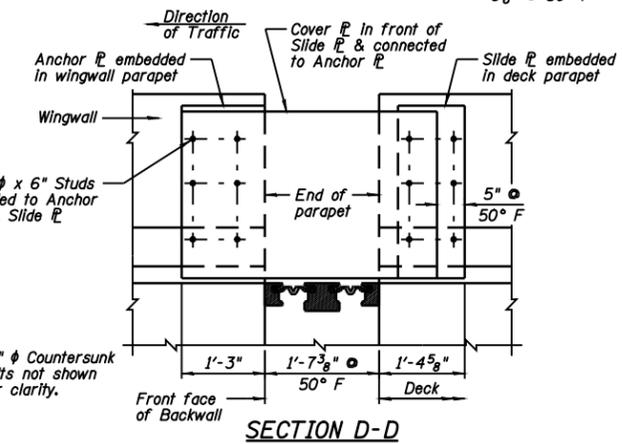


SECTION C-C (EAST END)

*8 1/2" @ 50° F



PARAPET DETAIL



SECTION D-D

Note: 3/4" φ Countersunk bolts not shown for clarity.

NOTES:

- 1.) The Modular Expansion Joint shall be designed in accordance with the latest AASHTO Specifications for HS20-44 truck loading with impact.
- 2.) The expansion joint device shall be a prefabricated modular assembly with multiple support bars and separator beams, providing a continuous seal across the deck.
- 3.) The joint shall be fabricated and installed according to the manufacturer's recommendations and as described in the GBSP No. 18 for Modular Expansion Joint and as approved by the Engineer.
- 4.) The joint shall be fabricated to conform to the roadway profile and cross slope.
- 5.) All exposed structural steel elements such as separator and edge beam support bars and cover plate shall be fabricated with AASHTO M270, Grade 50 steel unless specified otherwise by the manufacturer.
- 6.) Bolts for the sliding plate assemblies shall be galvanized according to AASHTO M232.
- 7.) The steel plates for the sliding plate assemblies shall be AASHTO M270, Grade 50 and galvanized according to AASHTO M111.
- 8.) All materials, equipment and labor required to install the sliding plate assemblies in the parapets are included in the cost of Modular Expansion Joint of the size specified.
- 9.) No aluminum components shall be allowed.
- 10.) All splices of center beams and edge beams shall be full penetration welds (upturn splices may be partial penetration welds).
- 11.) Joint openings shall be adjusted according to Article 503.10(c) of the Standard Specifications when the blockout is cast at an ambient temperature other than 50° F.
- 12.) Modular Expansion Joints shall be assembled in their final relative position with the ends in place for shop inspection and acceptance.
- 13.) All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
- 14.) The Modular Expansion Joint shall be either the Steelflex System by the D.S. Brown Company, the WABO System by the Watson Bowman Acme Corporation or the LG System by TechStar Incorporated. The joint shall provide the following movement:

Location	Longitudinal Movement (Inch)	Size (Inch)
North Abutment	2 3/8"	6"

BILL OF MATERIAL

Item	Unit	Total
Modular Expansion Joint 6"	Foot	68

MODULAR EXPANSION JOINT DETAILS
STRUCTURE NO. 084-0028

DESIGNED JML
CHECKED MSW
DRAWN DJM
CHECKED MGO/MSW

DATE 03/05/09

SHEET NO. B21	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
44 SHEETS	55	(84-3HB-6)BR	SANGAMON	90	55
SN 084-0028			CONTRACT NO. 72A64		
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT					

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