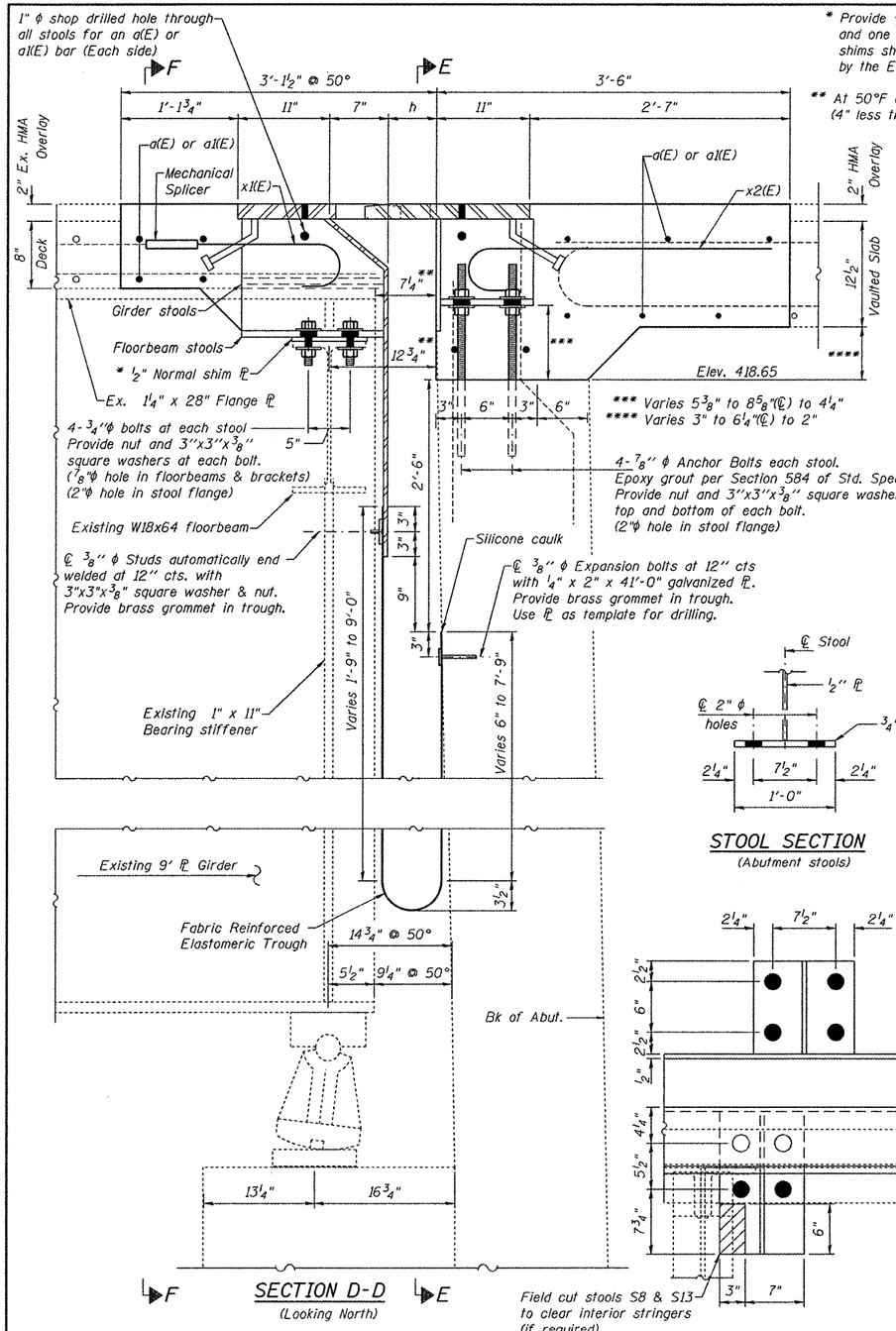
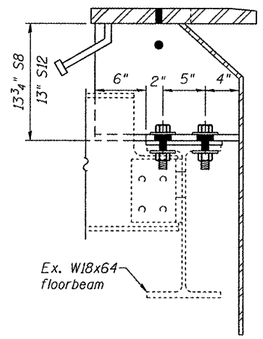


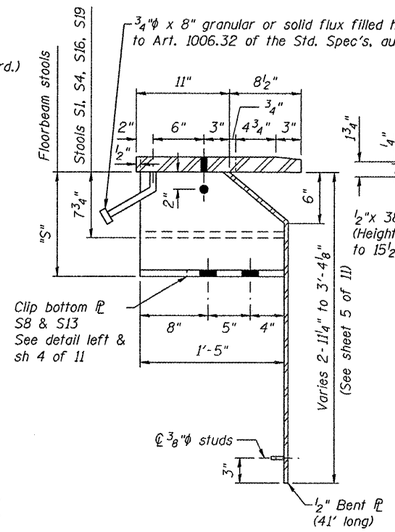
SECTION D-D
(Looking North)

* Provide ½" normal shim, plus one ¼" shim, plus one ⅛" shim, and one 1/16" shim for height adustment. Tapered shims shall be added under the stools as required by the Engineer to make a smooth finger joint.

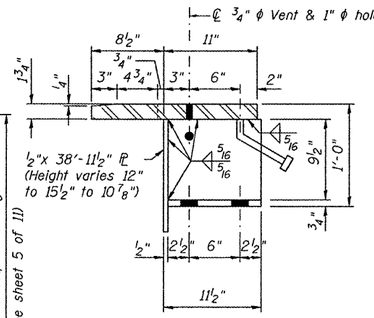
** At 50°F calculated from field measurments. (4" less than existing plans due to abutment tipping inward.)



STOOL ELEVATION
(Stool S8 at Stringer 2)
(Stool S13 at Stringer 3)



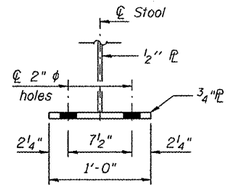
STOOL ELEVATION
(Looking North)



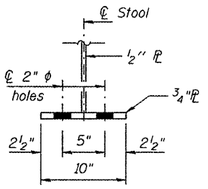
ABUTMENT STOOLS
(Looking North)

	Stool No.	Height
Girder A	S1	11"
	S2	11½"
	S3	11⅞"
	S4	7¾"
	S5	12⅝"
	S6	13"
	S7	13⅜"
	S8	13⅝"
	S9	14"
	S10	13⅞"
	S11	13½"
	S12	13⅛"
	S13	12⅞"
	S14	12½"
	S15	12⅛"
	S16	11¾"
Girder B	S17	7¾"
	S18	10¾"
	S19	10⅜"
	S20	9⅞"

DIMENSION "S"



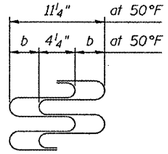
STOOL SECTION
(Abutment stools)



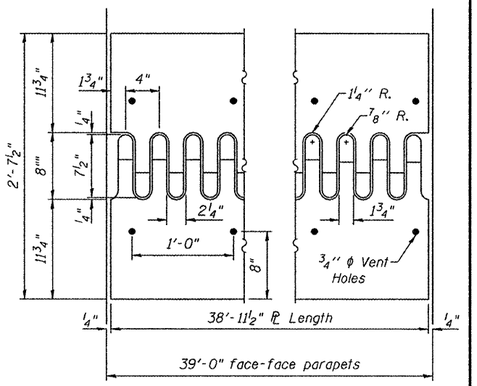
STOOL SECTION
(Deck stools)

Finger plate gaps
(406' Expansion Length)

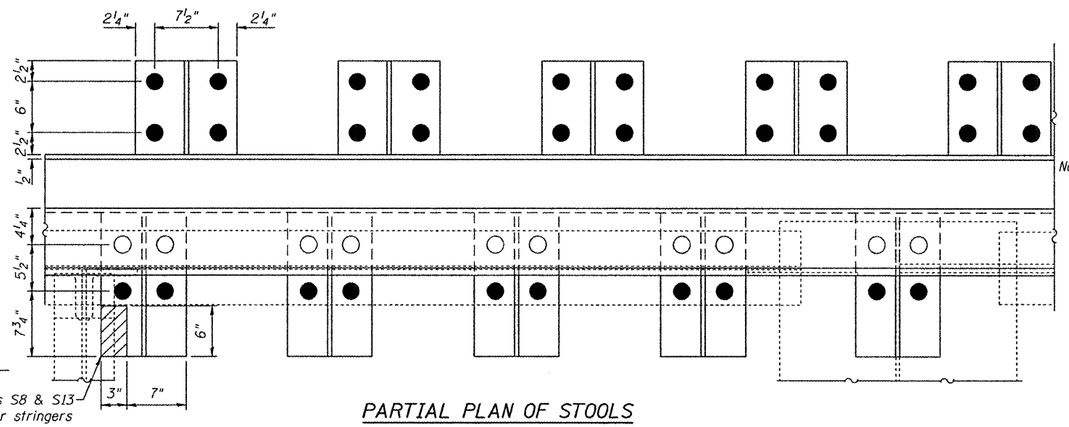
Temp.	b	h
-30°F	6"	8¼"
50°F	3½"	5¾"
130°F	1"	3¼"



FINGER SETTING DETAIL



FLAME CUTTING DIAGRAGM
(Cut from M270 Gr. 50 ℄)



PARTIAL PLAN OF STOOLS

Field cut stools S8 & S13 to clear interior stringers (if required).

Notes:

See sheet 4 of 11 for stool locations & Section E-E.

See sheet 5 of 11 for Section F-F.

Stool heights are measured at ℄ of bearings.

All plates shall be AASHTO M270, Gr. 50. The calculated weight of structural steel = 15,870 lbs for the finger plate, stools, and accessories, and is included with "Finger Plate Expansion Joint, 5in".

Finger Plate Expansion Joints shall be assembled in the proper position with the ends in place and shall be left assembled for shop inspection.

Existing reinforcement shall extend 6" min. into the removal area to allow attachment of the mechanical splicers.

DESIGNED - J. Uehle	EXAMINED		DATE - March 11, 2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FINGER PLATE DETAILS SN 082-0198	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - A. Halloway		ENGINEER OF STRUCTURAL SERVICES				103	561-B-1	ST. CLAIR	21	13
DRAWN - J. Uehle	PASSED				SHEET NO. 6 OF 11 SHEETS			CONTRACT NO. 76E20		
CHECKED - A. Halloway		ENGINEER OF BRIDGES AND STRUCTURES						ILLINOIS FED. AID PROJECT		