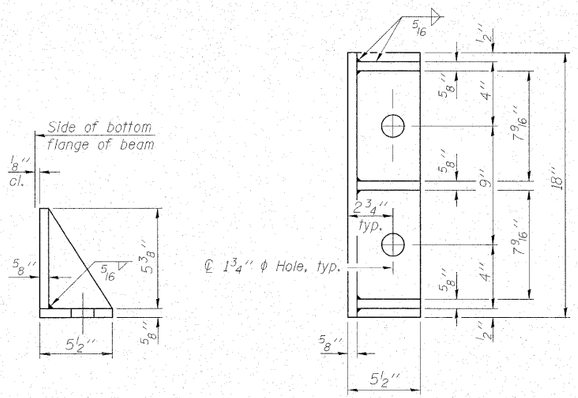
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 773 IL 121	(108BR-3)B-1	CUMBERLAND	96	46
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	

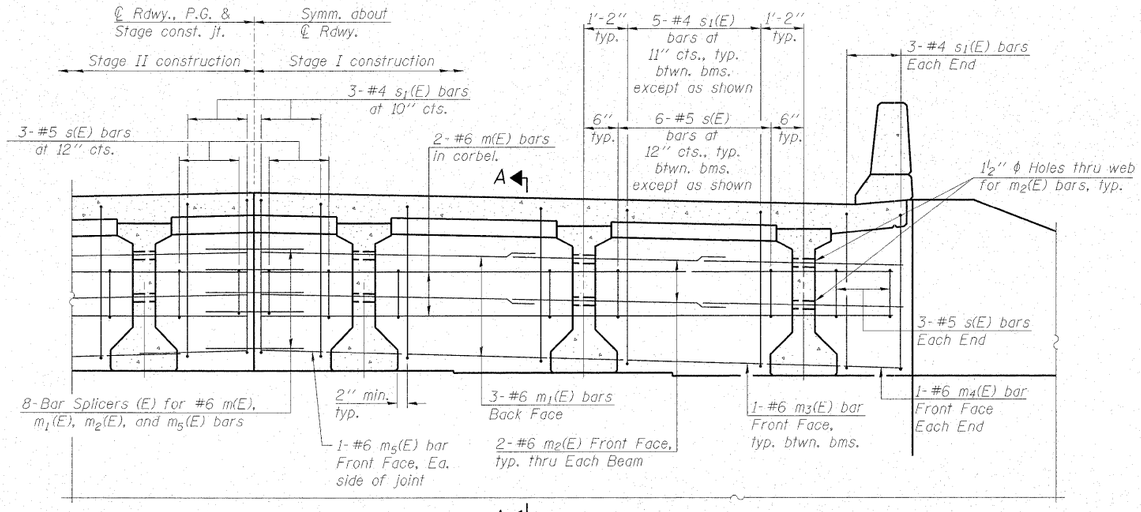
SHEET NO. 11
22 SHEETS

Contract # 74237



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



DIAPHRAGM ELEVATION AT ABUTMENT

(Looking West)
West abut. shown, East abut. similar

MIN. BAR LAP

#6 bar = 2'-9"

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 10 of 22.

Concrete in diaphragm is included with Concrete Superstructure on sheet 10 of 22.

For details of bars s(E), s_1(E) and s_2(E) see sheet 10 of 22.

The s(E), s_1(E) and s_2(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

See sheet 12 of 22 for Sections A-A and B-B.

Cost of 90 Lb. roofing felt is included with Concrete Superstructure.

The side retainer shall be galvanized after shop fabrication according to AASHTO M 111.

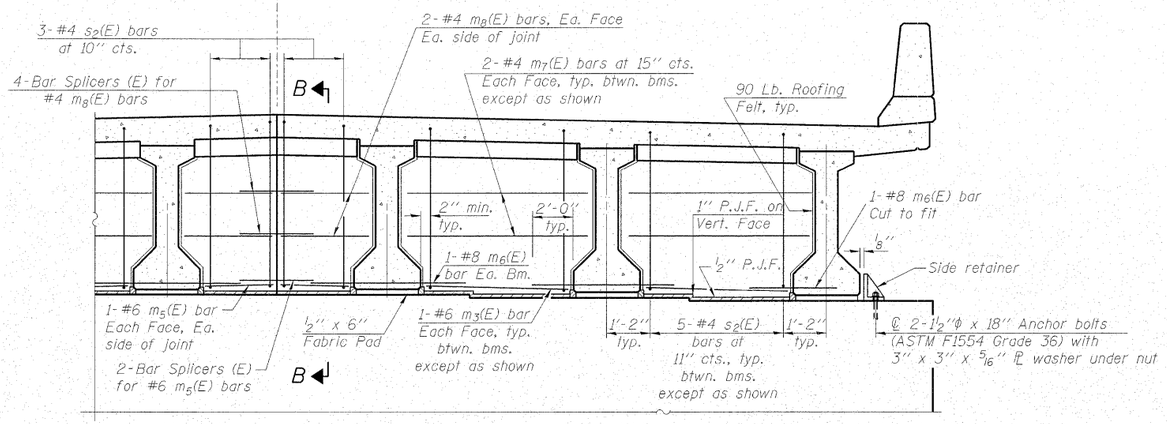
Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be either cast in place or installed in holes drilled after the supporting member is in place and prior to pouring the deck.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

Cost of side retainer and anchor bolts shall be included with Concrete Structures.



DIAPHRAGM ELEVATION AT PIER

(Looking West)

MAURER ▲ STUTZ, INC. ENGINEERS SURVEYORS

DESIGNED	- BAS
CHECKED	- KEF
DRAWN	- LAD
CHECKED	- RJA

DIAPHRAGM DETAILS

IL ROUTE 121 OVER MULE CREEK
F.A.P. RTE. 773 - SECTION (108BR-3)B-1
CUMBERLAND COUNTY
STATION 399+34.00
STRUCTURE NO. 018-0062

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