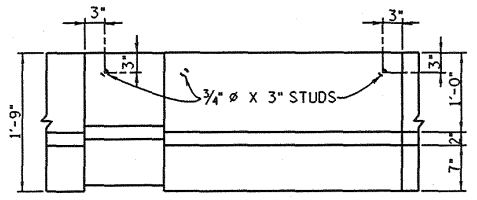
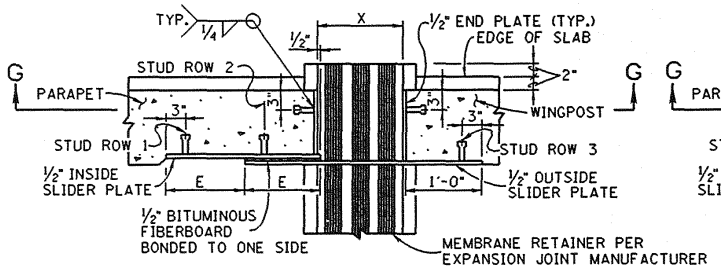
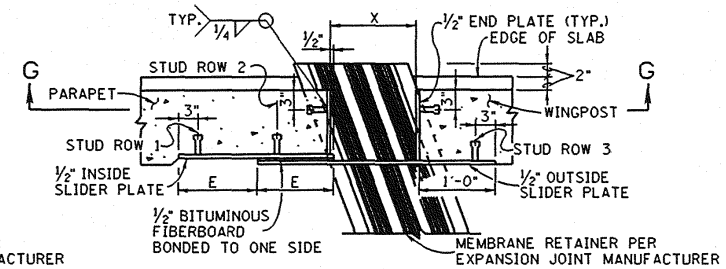
STD12.DGN



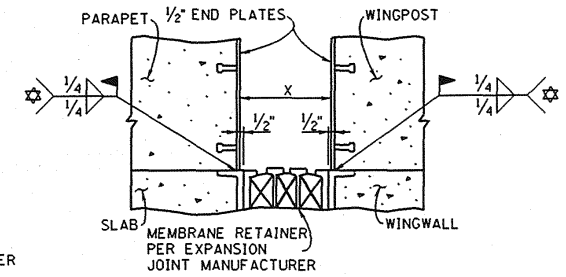
PLAN VIEW OF PARAPET



SECTION A - A



6 SECTION A - A
(SKEWED EXPANSION JOINT)



6 3 SECTION G - G

✡ NOTE: WELD WIDTH OF CONTACT POINT

E DENOTES: ONE HALF OF THE TOTAL EXPANSION JOINT MOVEMENT PLUS (+) THREE (3) INCHES, AT MID TEMPERATURE.

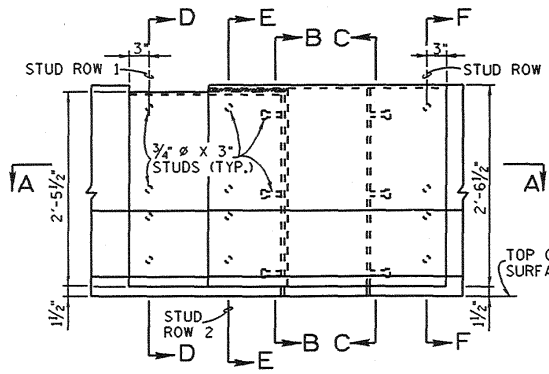
IF E IS LESS THAN 6½" OMIT STUD ROW 2

3 X DENOTES: EXPANSION JOINT + 1"

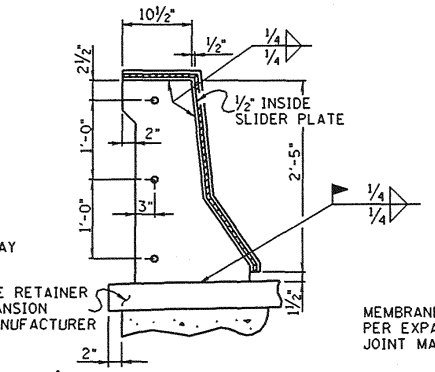
PROJECT NO.	YEAR	SHEET NO.
	1993	

REVISIONS

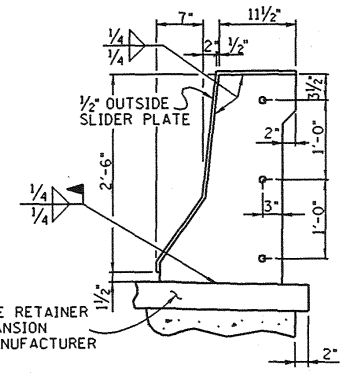
	NO.	DATE	BY	BRIEF DESCRIPTION
M/R	1	5-19-94	CMH	REVISED NOTE
M/R	2	12-19-94	CMH	REV. BRIDGE DECK DRAIN DETAILS. RENAMED ALT C TO ALT B. DELETED CAST IRON GRATE INLET DRAIN AND ADDED TYPE 1 & 2 DRAIN DETAILS
M/R	3	5-1-95	CMH	REVISED WELD SYMBOL
M/R	4	9-11-95	CMH	REVISED GRATE INLET DRAIN DIMENSIONS
M/R	5	5-21-99	CMH	REVISED DEPTH OF ½" ø ROD
M/R	6	7-31-00	CMH	REVISED WELD & ADDED SKEWED SECTION
M/R	7	1-5-01	CMH	REVISED NOTE
M/R	8	8-1-07	JHW	REVISED TITLES, NOTES, ADDED BOLT DESIGNATION AND DETAIL
M/R	9	3-28-08	JHW	ADDED NOTE & MATERIAL SPECIFICATIONS



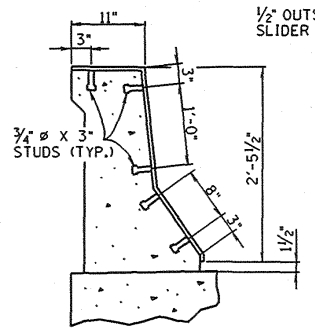
ELEVATION VIEW OF PARAPET



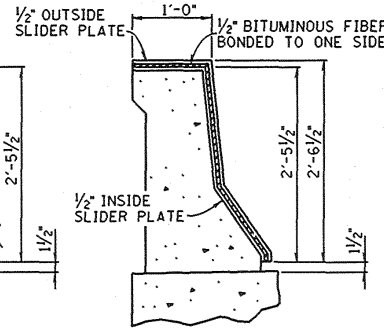
3 SECTION B - B
(SHOWING STUD SPACING IN END PLATE)



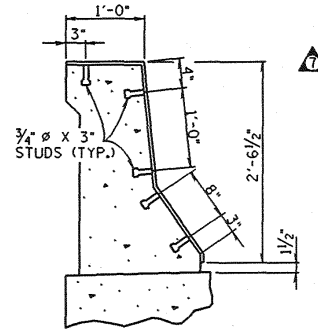
3 SECTION C - C
(SHOWING STUD SPACING IN END PLATE)



SECTION D - D
(SHOWING STUD SPACING IN ½" INSIDE SLIDER PLATE)



SECTION E - E



SECTION F - F
(SHOWING STUD SPACING IN ½" OUTSIDE SLIDER PLATE)

NOTES:

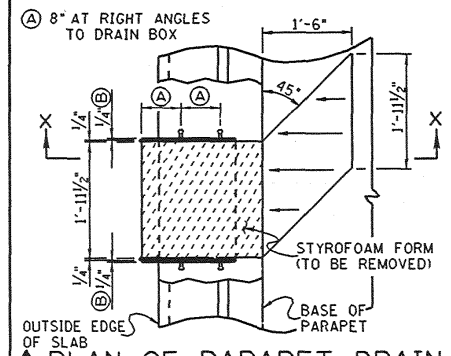
ALL METAL PLATE MATERIAL SHALL BE (ASTM A709) GRADE 36.

7 ALL WELDING, INCLUDING STUDS, SHALL BE COMPLETED PRIOR TO METAL PLATES BEING PAINTED OR GALVANIZED. ALL STEEL THAT IS PART OF THE JOINT ASSEMBLY SHALL BE PAINTED WITH 4 MILS OF INORGANIC ZINC OR GALVANIZED IN ACCORDANCE WITH ASTM STANDARD SPECIFICATION A123, UNLESS SHOWN OTHERWISE ON PLANS.

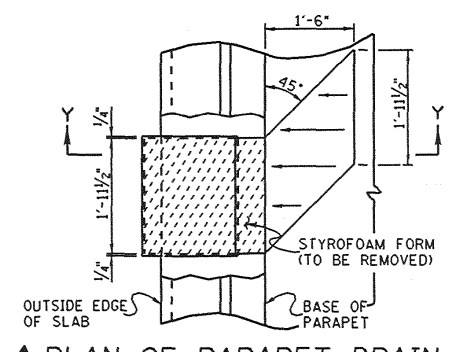
NOTE: ALL CONCRETE POURS SHALL BE WELL CONSOLIDATED AROUND THE SLIDER PLATE ASSEMBLIES.

NOTE: COST OF STRUCTURAL STEEL, FORMING, LABOR AND ALL MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF SLIDER PLATE ASSEMBLIES TO BE INCLUDED IN EXPANSION DEVICE.

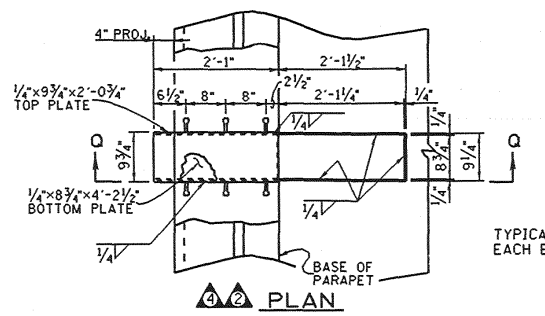
Ⓐ 8" AT RIGHT ANGLES TO DRAIN BOX



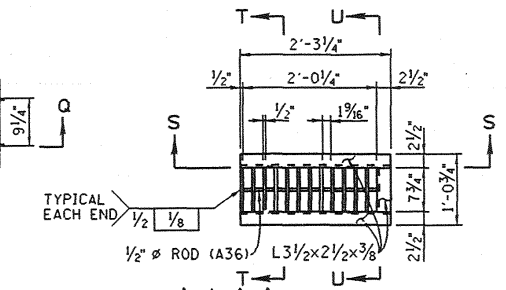
8 PLAN OF PARAPET DRAIN
(ALTERNATE A)



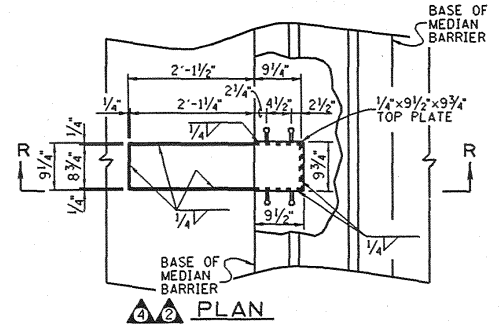
8 PLAN OF PARAPET DRAIN
(ALTERNATE B)



4 2 PLAN



9 5 4 2 PLAN



4 2 PLAN

9 8 2 NOTES:
(FOR ALTERNATES A & B)

FOR ALTERNATE A: ALL METAL PLATE MATERIAL SHALL BE AASHTO M270 (ASTM A709) GRADE 36.

TOP OF DRAIN TO BE SUPPORTED INTERNALLY PRIOR TO AND DURING POURING OF PARAPET CONCRETE. STYROFOAM FORM TO BE REMOVED AFTER THE PARAPET CONCRETE HAS SET.

STYROFOAM FORM TO BE IN ACCORDANCE WITH ASTM C 578 (TYPE VIII).

THE COST OF THE DECK DRAINS TO BE INCLUDED IN COST OF THE PARAPET.

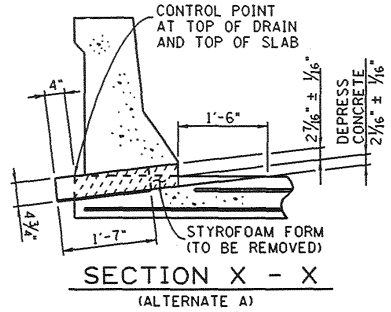
GENERAL NOTES:

ALL STUDS SHALL BE ½"ø × 2" (A108).

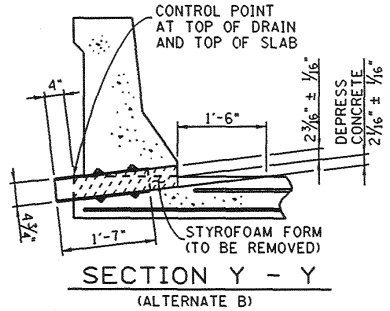
THE CONTRACTOR MAY USE EITHER ALTERNATE A OR B, EXCEPT WHERE GRATE INLET DRAINS ARE DESIGNATED. EITHER A WHITE OR GREY PVC MATERIAL MAY BE USED FOR ALTERNATE B. MATERIAL FOR GRATE INLET DRAINS SHALL BE AASHTO M270 (ASTM A709) GRADE 36 UNLESS NOTED OTHERWISE.

ALL WELDING, INCLUDING STUDS, SHALL BE COMPLETED PRIOR TO METAL DRAINS BEING ZINC COATED. ZINC COATING SHALL BE AS SPECIFIED BY ASTM STANDARD SPECIFICATION A-123.

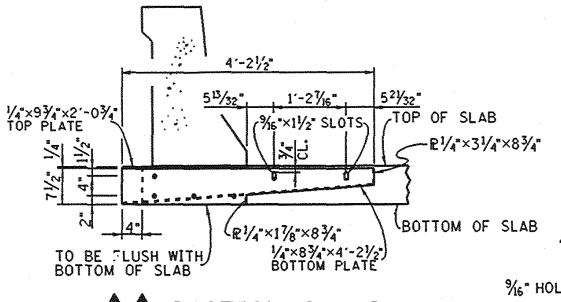
REINFORCING STEEL IN CONFLICT WITH DECK DRAIN IS TO BE CUT IN FIELD. EPOXY COATED REINFORCING STEEL TO BE REPAINTED ACCORDING TO ASTM D-3963.



SECTION X - X
(ALTERNATE A)

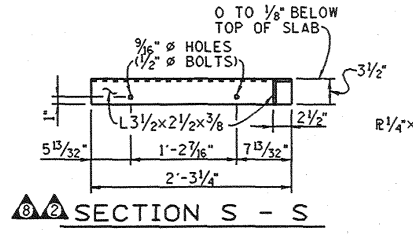


SECTION Y - Y
(ALTERNATE B)

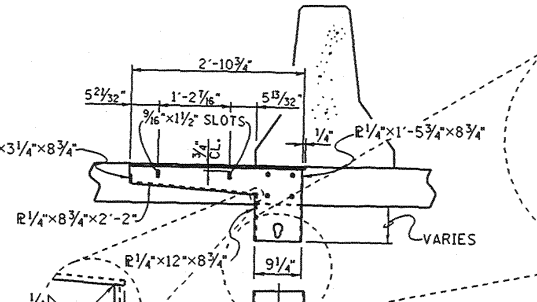


4 2 SECTION Q - Q

TYPE 1

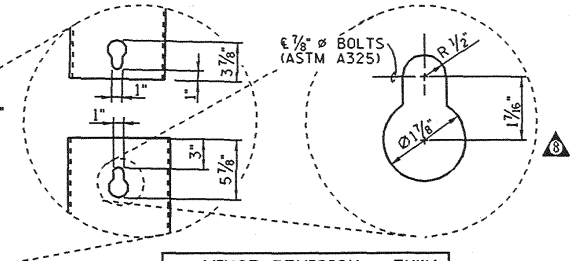


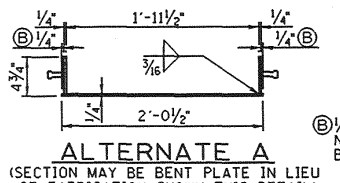
8 2 SECTION S - S



9 4 2 SECTION R - R

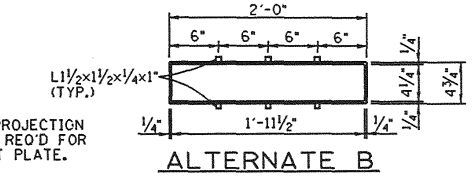
TYPE 2



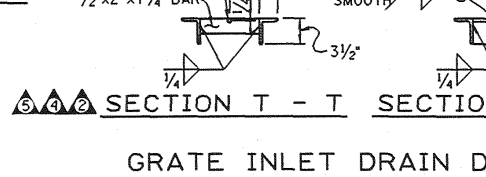


ALTERNATE A
(SECTION MAY BE BENT PLATE IN LIEU OF FABRICATION SHOWN THIS DETAIL)

Ⓑ¼" PROJECTION NOT REQ'D FOR BENT PLATE.



ALTERNATE B



5 4 2 SECTION T - T SECTION U - U 2 4 5

GRATE INLET DRAIN DETAILS

MINOR REVISION - FHWA APPROVAL NOT REQUIRED

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

STEEL SLIDER PLATE ASSEMBLIES FOR CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS 1993

CORRECT Edward P Wasserman
ENGINEER OF STRUCTURES

DESIGNED BY C.M. MILES DATE 12-92
DRAWN BY KIM FRANKENFIELD DATE 12-92
SUPERVISED BY C.M. MILES DATE 12-92
CHECKED BY C.M. MILES DATE

NOTE: COST OF STRUCTURAL STEEL, FORMING, LABOR AND ALL MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE INSTALLATION OF GRATE INLET DRAIN TO BE INCLUDED IN PAY ITEM FOR GRATE INLET DRAIN TYPE 1 AND/OR TYPE 2.