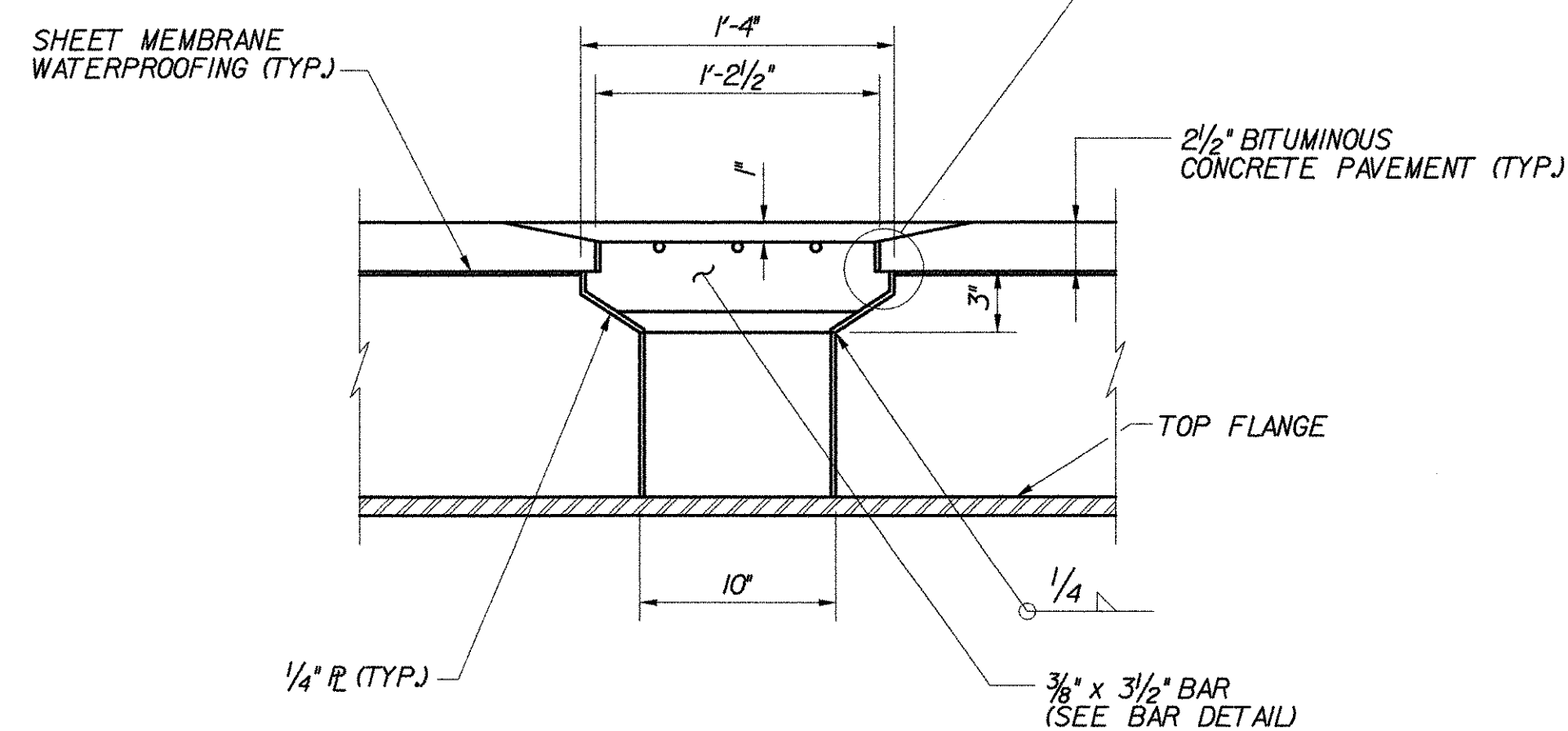
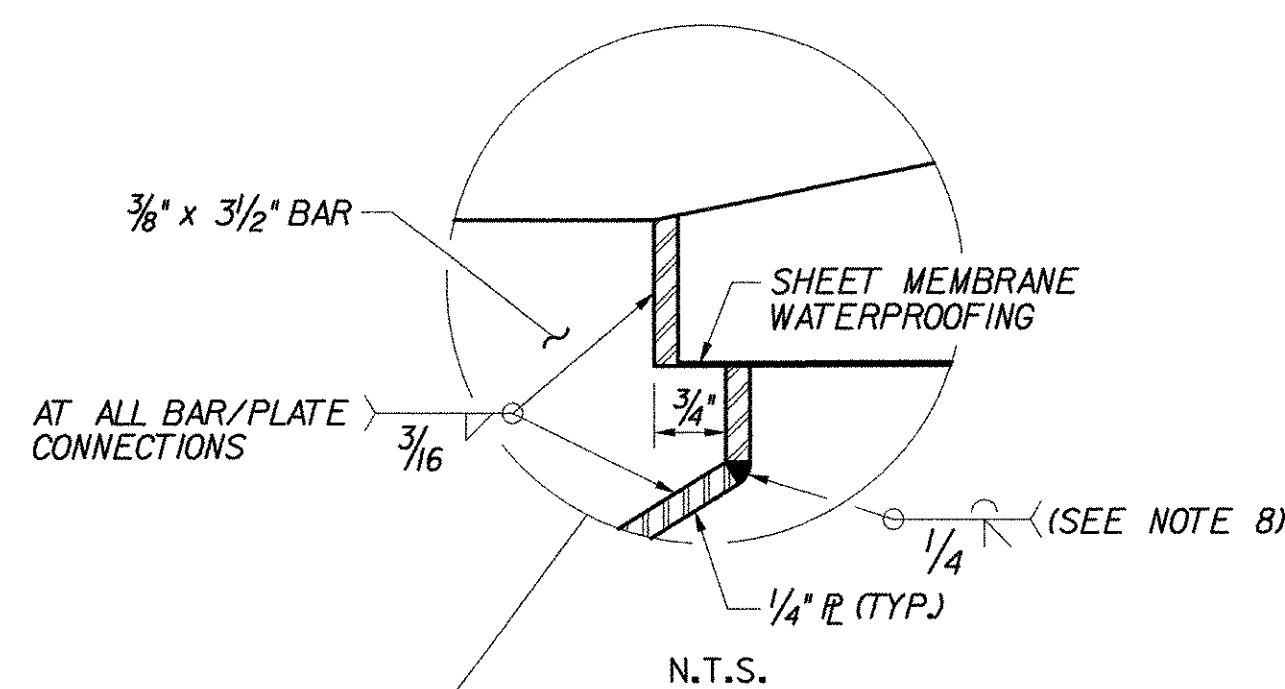


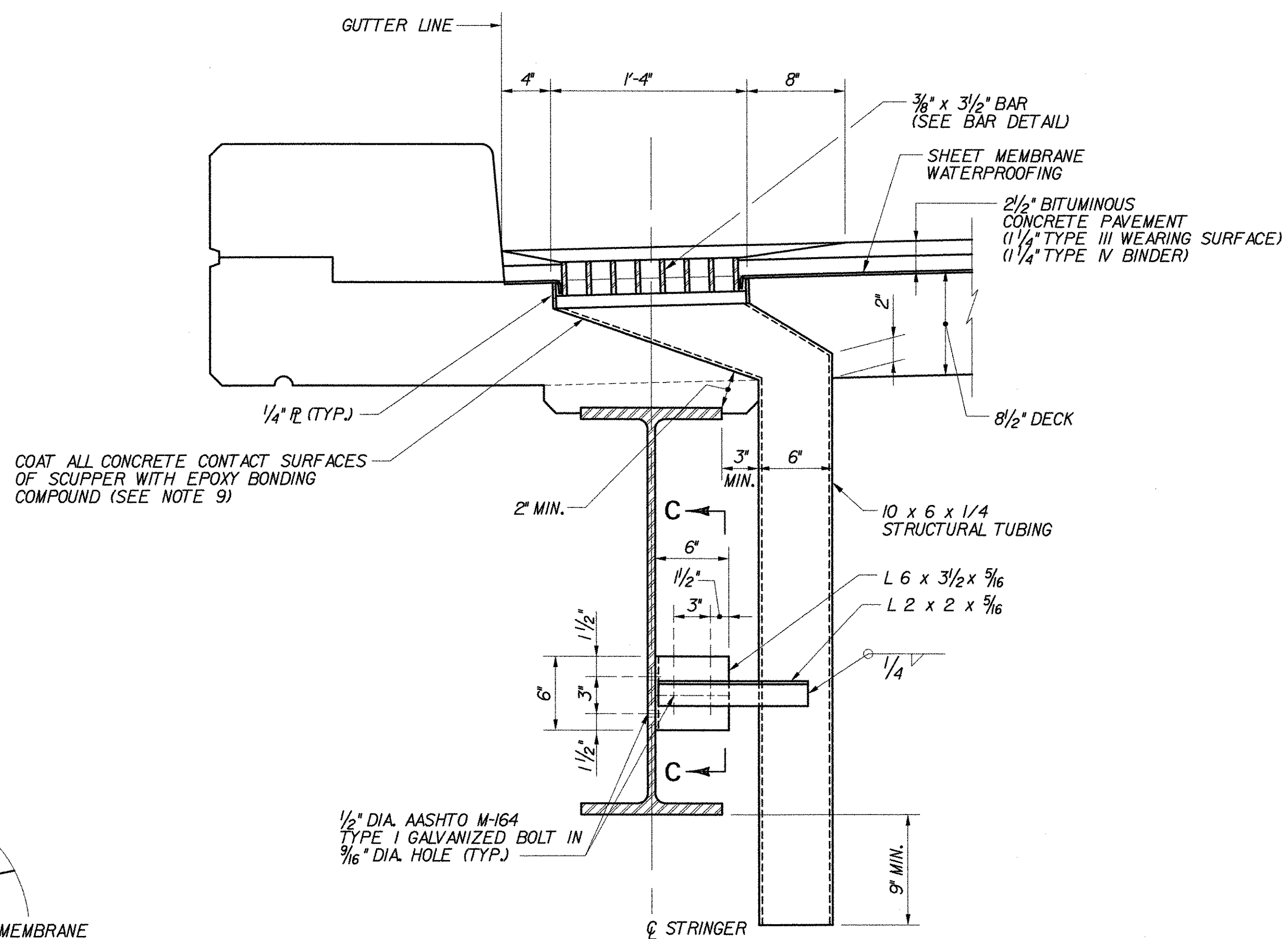
**PLAN**

SCALE: 1/2"=1'-0"



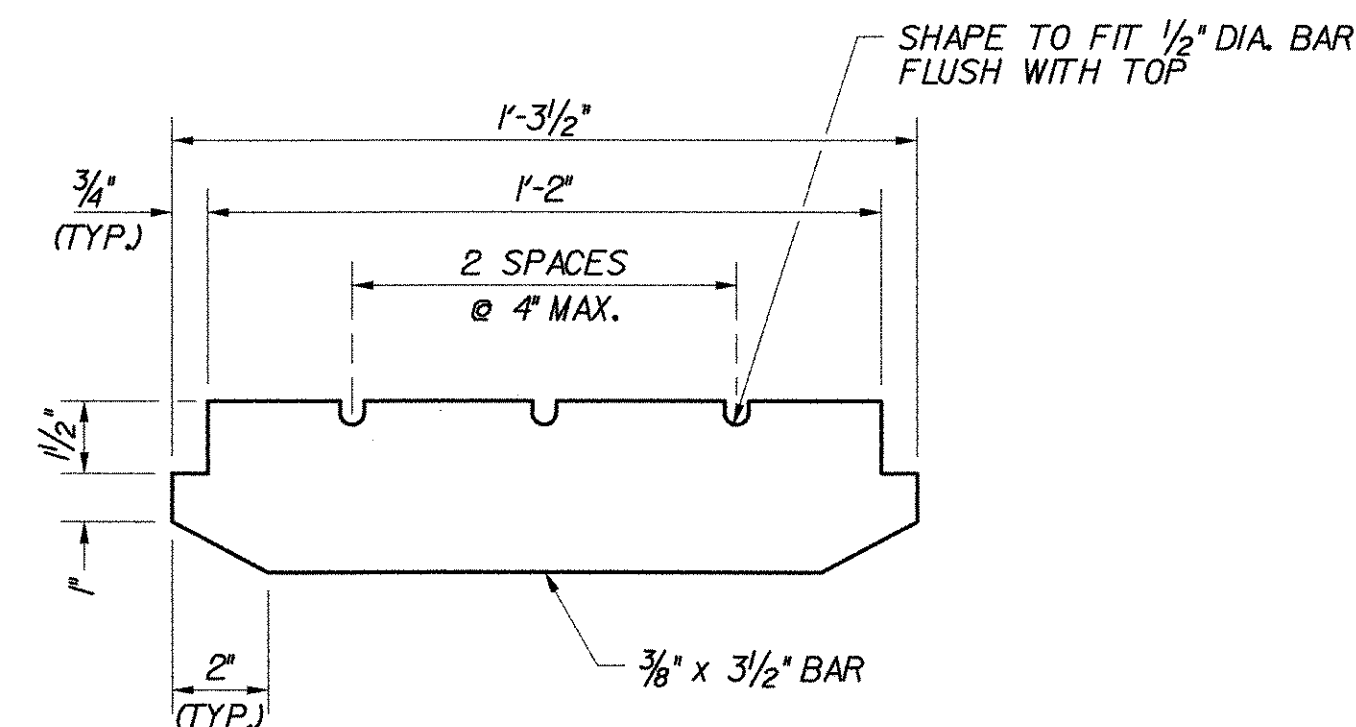
**SECTION B-B**

SCALE: 1/2"=1'-0"



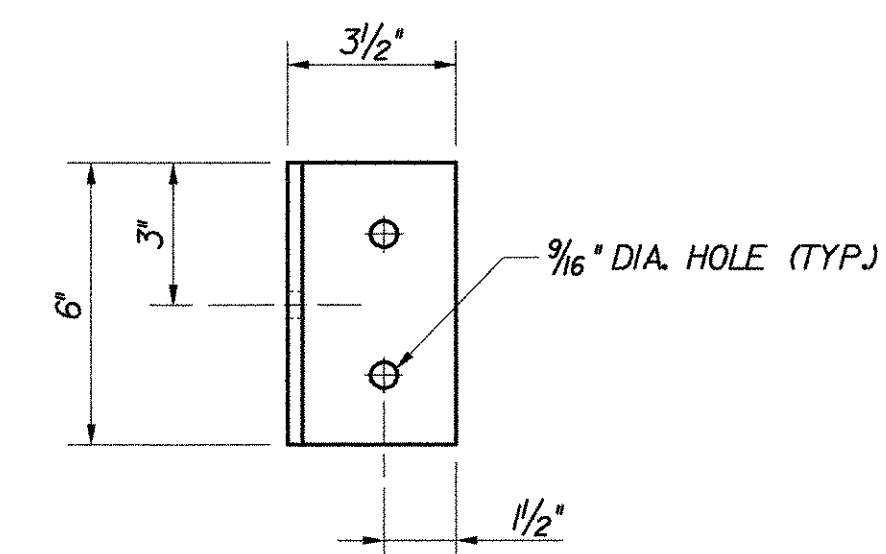
**SECTION A-A**

SCALE: 1/2"=1'-0"



**BAR DETAIL**

SCALE: 3"=1'-0"



**SECTION C-C**

SCALE: 3"=1'-0"

**NOTES:**

1. FOR LOCATION OF SCUPPERS, SEE FRAMING PLAN FOR EACH BRIDGE.
2. STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A-500 OR A-501.
3. ALL PLATES, BARS AND ANGLES SHALL CONFORM TO AASHTO M 270, GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M-164, TYPE I.
4. SCUPPERS, INCLUDING COMPONENTS REQUIRED FOR ATTACHMENT TO SUPERSTRUCTURE, SHALL BE GALVANIZED OR METALIZED AFTER FABRICATION, IN ACCORDANCE WITH SUBSECTION 506.15 OF THE SPECIFICATIONS.
5. TOP SURFACE OF SCUPPERS MUST BE SLOPED TO MATCH ROADWAY CROSS SLOPE AND GRADE.
6. THE BAR AND GRATE SECTION MAY BE PREFABRICATED PROVIDING THAT THE GEOMETRY AND SECTION PROPERTIES ARE EQUIVALENT TO THE DETAILS SHOWN.
7. AT BR 43N&S, THE COST OF SCUPPERS SHALL BE PAID UNDER ITEM 506.50, "STRUCTURAL STEEL (ROLLED BEAM)". AT ALL OTHER LOCATIONS, THE COST SHALL BE PAID UNDER ITEM 506.55, "STRUCTURAL STEEL (PLATE GIRDER)".
8. SCUPPER MAY BE FABRICATED BY BENDING PLATES AT THESE JOINTS IN LIEU OF A WELDED CONNECTION. INSIDE RADIUS SHALL BE NOT GREATER THAN 1/2". GEOMETRICS OF BENT SECTION SHALL CONFORM TO 1/16" FABRICATION TOLERANCE.
9. EPOXY BONDING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 719 OF THE SPECIFICATIONS. PAYMENT FOR EPOXY BONDING COMPOUND SHALL BE INCIDENTAL TO ITEM 501.221, "CONCRETE CLASS A QC/QA".

**STATE OF VERMONT  
AGENCY OF TRANSPORTATION**

Town Of	BOLTON	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	

**TYPICAL SCUPPER DETAILS**

Designed By	P.W. SZUSTAK	Drawn By	R.A. BOTZENHART
Checked By	J.P. HALSTEAD	Date	10/99
		Bridge Design Supervisor	
		Date	10/99

PROJECT	BOLTON	PROJECT NO.	IM-089-2(29)
---------	--------	-------------	--------------

TVGA CAD Drawing No.	scup_det	Date	10/99
Bridge Sheet No.	C-39	Sheet	39 of 307