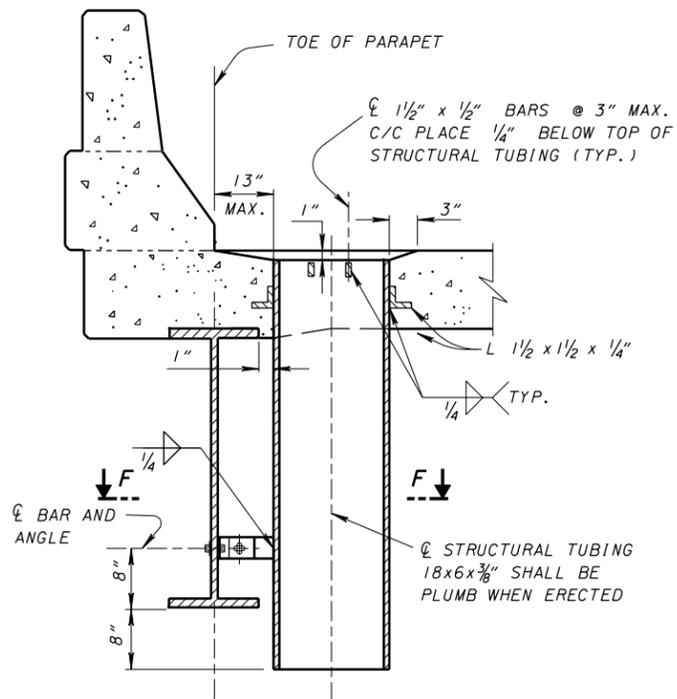
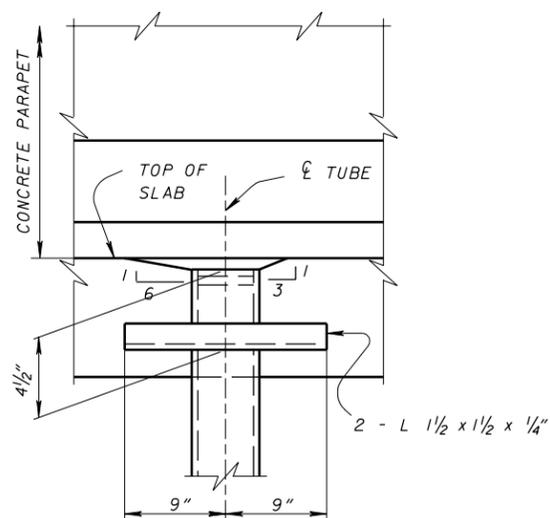


PLAN

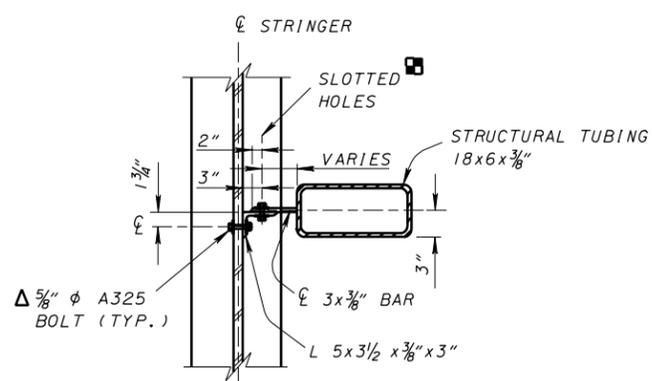
\* - DIMENSION "A" SHALL NOT EXTEND BEYOND THE LIMITS OF THE SHOULDER (SHALL NOT FALL IN THE TRAFFIC LANE)



SECTION D-D



SECTION E-E



SECTION F-F

■ - SEE FASTENER NOTE 1.  
 Δ - SEE FASTENER NOTE 2.

**SCUPPER NOTES:**

**GENERAL:** THE DESIGNER SHALL SHOW THE LOCATION OF THE SCUPPERS IN A PLAN VIEW OF THE BRIDGE DECK ON THE CONTRACT DOCUMENTS.

**SUPPLEMENTAL REINFORCEMENT:** REINFORCE THE CONCRETE DECK AT THE TWO SCUPPER CORNERS OPPOSITE THE CURB LINE WITH ONE #4 BAR, 3'-0" LONG ORIENTED AT 45° TO THE LONG AXIS OF THE SCUPPER AND LOCATED JUST BELOW THE TRANSVERSE BARS IN THE TOP MAT OF STEEL.

**MATERIAL:** FURNISH STRUCTURAL STEEL TUBING ACCORDING TO 707.10. TOUGHNESS TESTING IN ACCORDANCE WITH ASTM E436 IS NOT REQUIRED. ALL OTHER MATERIAL SHALL BE ASTM A709 GRADE 36, 50 OR 50W. GALVANIZE SUPPORT ANGLES, BARS, BOLTS, NUTS AND WASHERS IN ACCORDANCE WITH 711.02

**DECK CROWN/SUPERELEVATION:** CUT THE TOP OF THE STEEL TUBING SQUARE FOR CROSS SLOPES 1/2" PER FOOT AND LESS. CUT THE TOP OF THE TUBING PARALLEL TO THE DECK SURFACE FOR CROSS SLOPES GREATER THAN 1/2" PER FOOT.

**FASTENER NOTES:**

1. THE SIZE OF THE SLOTTED HOLES SHALL BE 1/16" x 1 9/16". THE SLOT SHALL BE HORIZONTAL IN THE 3" x 3/8" BAR AND VERTICAL IN THE ANGLE. BOLTS SHALL BE 5/8" DIAMETER A325 TYPE 1, GALVANIZED, WITH HEX NUT AND TWO WASHERS. TIGHTEN ACCORDING TO 513.
2. THE BOLTS SHALL BE 5/8" DIAMETER A325 TYPE 1 GALVANIZED FOR GALVANIZED, METALIZED OR PAINTED STRUCTURES OR A325 TYPE 3 FOR BARE WEATHERING STEEL STRUCTURES. EACH ASSEMBLY SHALL INCLUDE A BOLT, NUT AND TWO WASHERS. TIGHTEN ACCORDING TO 513. FOR WEATHERING STEEL STRUCTURES, PROVIDE A 3 1/2" x 3 1/2" x 1/8" PREFORMED BEARING PAD, 711.21, WITH A 1/16" DIAMETER HOLE, BETWEEN THE BEAM WEB AND THE ANGLE. AFTER THE DECK CONCRETE HAS BEEN POURED, FIELD DRILL THE 1/16" DIAMETER HOLE IN THE WEB.

**BASIS OF PAYMENT:** THE DEPARTMENT WILL PAY FOR THE SUPPLEMENTAL REINFORCEMENT DESCRIBED ABOVE SEPARATELY UNDER ITEM 509.

DESIGN AGENCY	OFFICE OF STRUCTURAL ENGINEERING
	STATE OF OHIO DEPARTMENT OF TRANSPORTATION
DATE	2-12-97
ADMINISTRATOR	Brad Fogwell
REVISIONS	04-20-01 07-19-02
DESIGNED	JCR
CHECKED	JS
REVIEWED	WTL
STANDARD	GENERAL STEEL DETAILS
PROJECT NO.	GSD-1-96
DRAWN	JFF/FO
3	3