HOPPER DETAILS

SCALE: 1½" = 1'-0"

DETAILS FOR ATTACHING DOWNSPOUT TO SPAN 1 & PIER 1

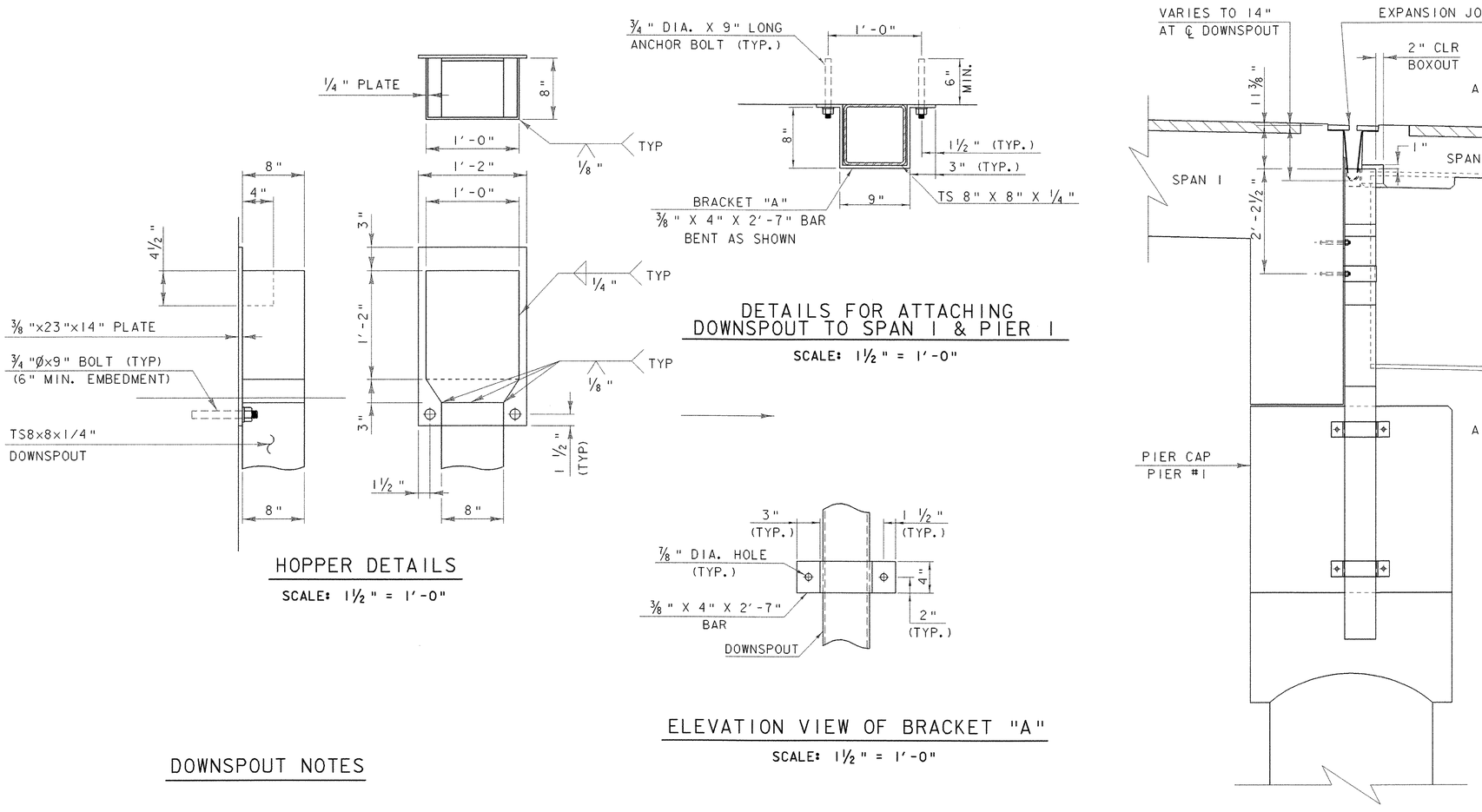
SCALE: 1½" = 1'-0"

ELEVATION VIEW OF BRACKET "A"

SCALE: 1½" = 1'-0"

DOWNSPOUT NOTES

1. HOLLOW STRUCTURAL STEEL TUBING SHALL CONFORM TO A-500 OR A-501.
2. ALL PLATES, BARS, AND ANGLES SHALL CONFORM TO AASHTO M270 GR. 36.
3. DOWNSPOUT SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123 AFTER FABRICATION.
4. ALL BOLTS AND RELATED HARDWARE SHALL BE ASTM A-307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153 (AASHTO M232).
5. ANY PLACE WHERE THE GALVANIZING HAS BEEN REMOVED FROM THE DOWNSPOUT EITHER BY CUTTING, BURNING, WELDING, PLACING, OR ANY OTHER MEANS, IT SHALL BE REPAIRED BY THOROUGHLY CLEANING THE DAMAGED AREAS WITH A WIRE BRUSH AND PAINTING THE DAMAGED AREAS WITH AN APPROVED SEALANT.
6. ALL STEEL PLATES AND TUBES FOR THE DOWNSPOUT SHALL BE PAID FOR UNDER THE ITEM 506. 55 "STRUCTURAL STEEL (PLATE GIRDER)". ALL ANCHOR BOLTS AND RELATED HARDWARE SHALL BE SUBSIDIARY TO ITEM 506.55 "STRUCTURAL STEEL (PLATE GIRDER)".



DOWNSPOUT ELEVATION

SCALE: 3/4" = 1'-0"

DOWNSPOUT SECTION A-A

SCALE: 3/4" = 1'-0"

SCALE 1½" = 1'-0
0 1 2

SCALE 3/4" = 1'-0
0 1 2

PROJECT:	PROJECT NO.:
HARTFORD	BRO-BTN 2004 (1)

DESIGN FILE NAME: 89j045/structures/sj045exp.dgn
IPARM FILE NAME: sj045downspout.i
PLOT DATE: 11-FEB-2005
DESIGNED BY: K. M. HIGGINS
DRAWN BY: M. LONGSTREET
SQUAD LEADER: C. P. WILLIAMS
CHECKED BY: K. M. HIGGINS
DOWNSPOUT DETAILS
SHEET: 46 OF 97