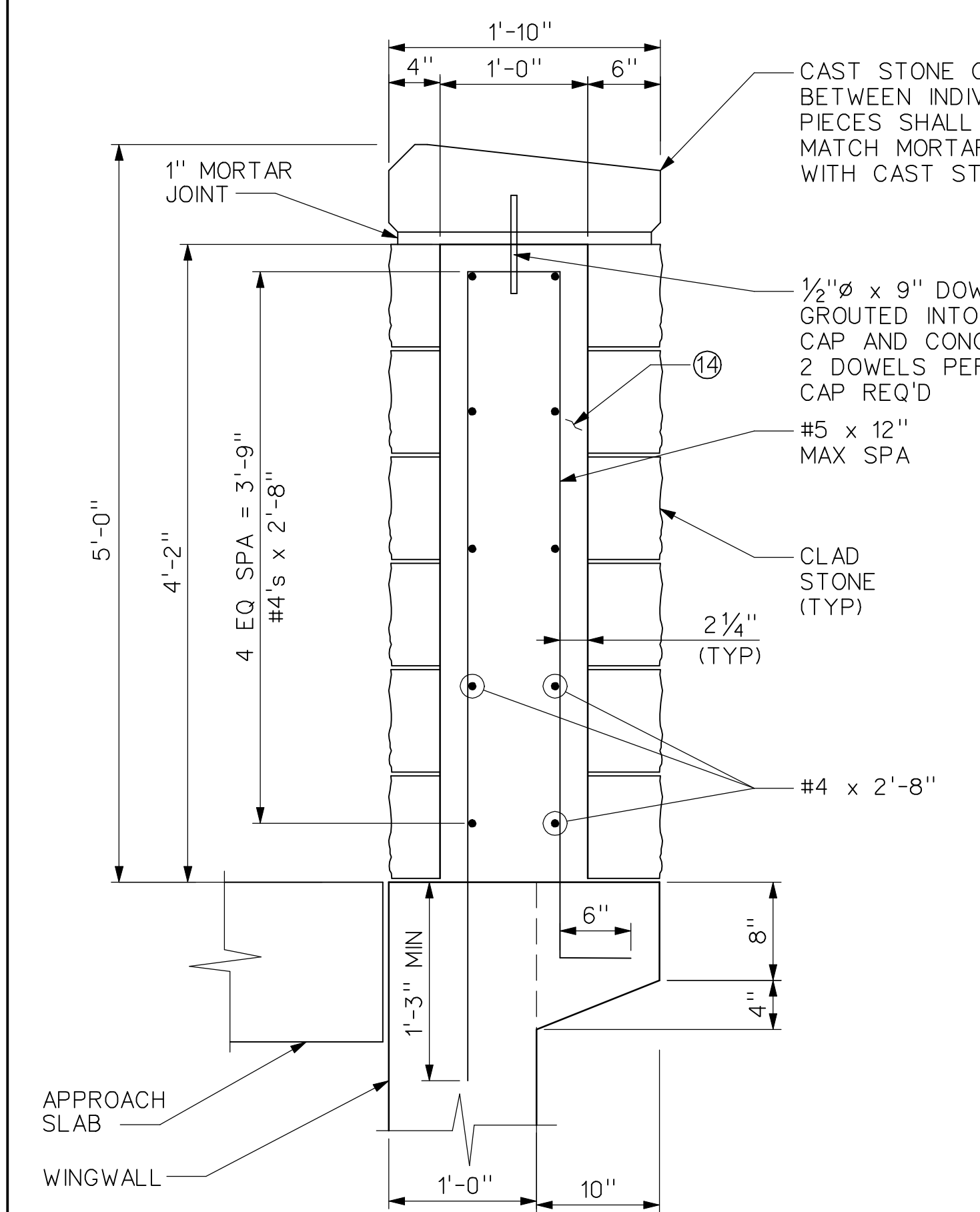
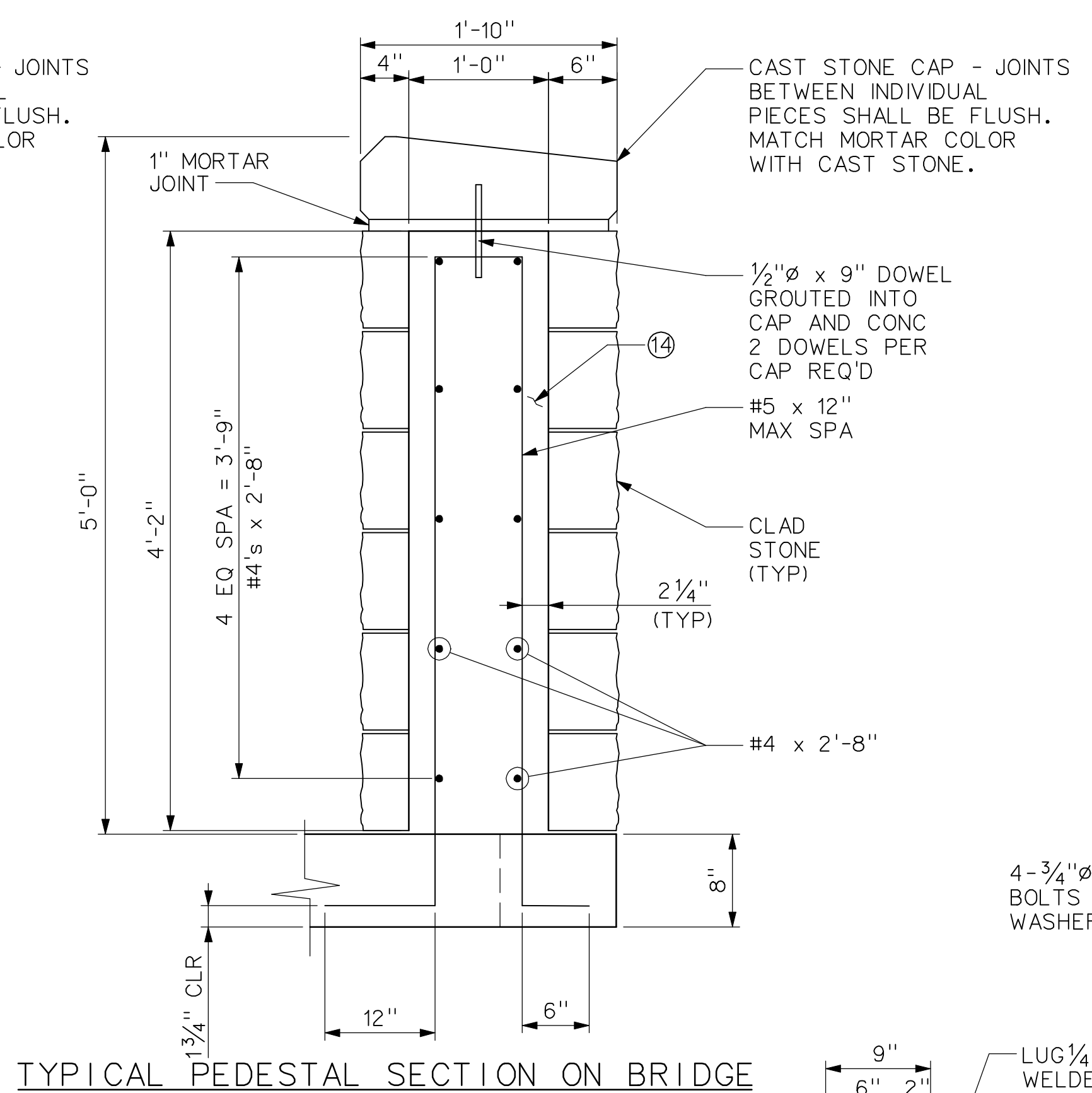


ELEVATION - BICYCLE RAIL W/ PILASTER

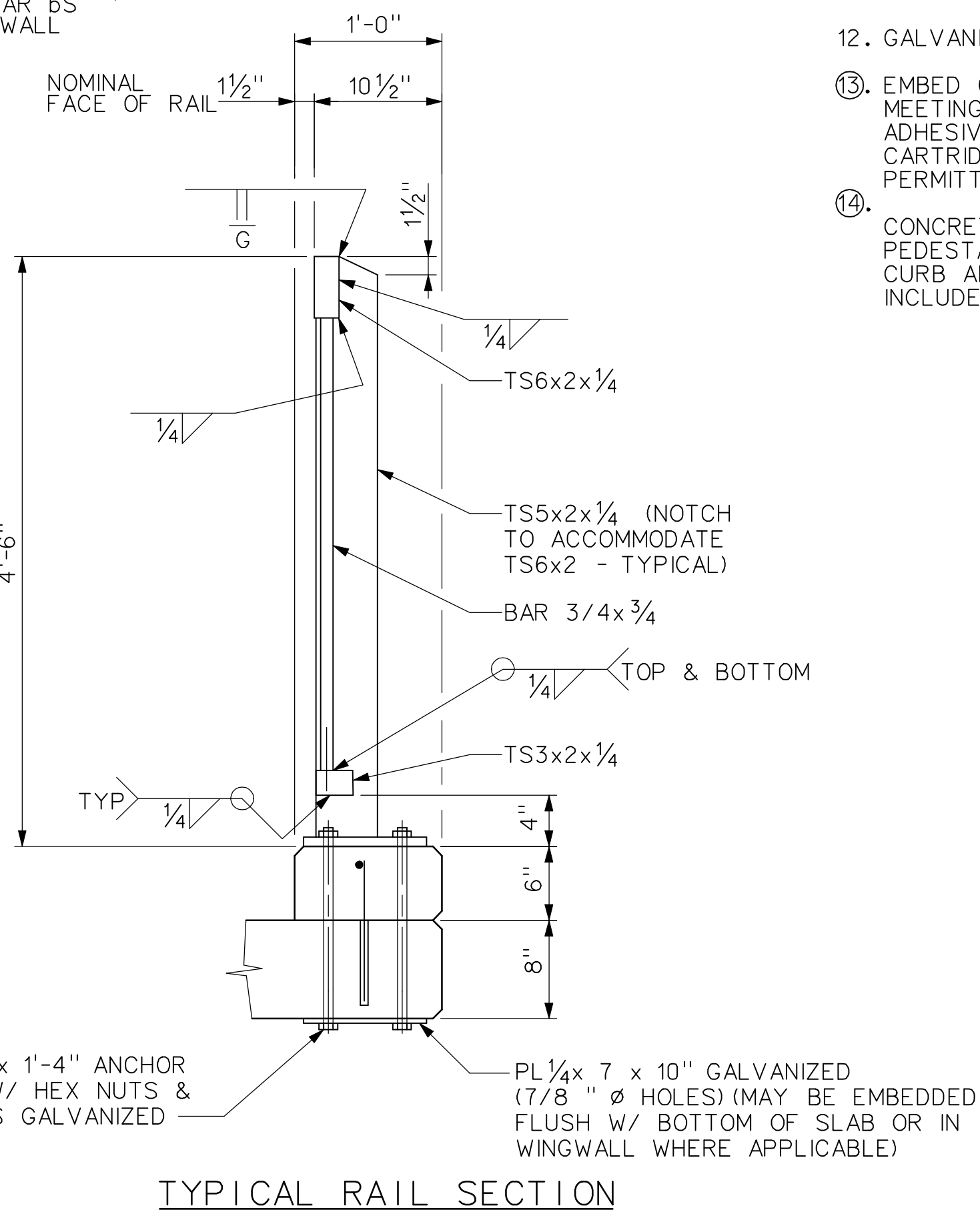
- NOTES:
- DESIGNED IN ACCORDANCE WITH AASHTO 2002 STANDARD SPECIFICATIONS AND CURRENT INTERIM SPECIFICATIONS.
 - RAIL TUBE SECTIONS SHALL BE STEEL IN ACCORDANCE WITH ASTM A500, GRADE B. MISCELLANEOUS STEEL SHALL BE AASHTO M-183 (ASTM A36).
 - ALL OPEN ENDS OF RAILS SHALL BE CAPPED PER TYPICAL DETAIL.
 - DOVETAIL SLOTS SHALL BE 20 GAUGE, GALVANIZED CODE NUMBER DAS-920 MANUFACTURED BY GATEWAY BUILDING PRODUCTS OR ENGINEERED APPROVED EQUAL.
 - DOVETAIL STONE ANCHORS SHALL BE 1/2" x 1 1/4" SPACED AT 12" O.C. FOR FULL LENGTH OF SLOT.
 - ALL JOINTS SHALL BE 3/4" X 1" DEEP RAKED.
 - CAST STONE SHALL BE REINFORCED AS REQUIRED FOR SAFE HANDLING, SETTING AND STRUCTURAL LOADS. THE MINIMUM LENGTH OF CAP SHALL BE 2'-6". CAST STONE SHALL BE SUBSIDIARY TO PILASTER.
 - ANCHOR BOLTS AND NUTS SHALL BE ASTM A307
 - ALL STEEL FOR BICYCLE RAIL SHALL BE SHOP PAINTED PRIOR TO DELIVERY TO THE SITE, USING TxDOT'S SYSTEM III.
 - CONTRACTOR SHALL SUBMIT STONE SAMPLES TO THE CITY FOR COLOR SELECTION PRIOR TO CONSTRUCTION.
 - BICYCLE RAIL SHALL BE PERPENDICULAR TO THE TOP OF THE BRIDGE DECK. ERECTION DRAWINGS SHOWING THE PANEL LENGTHS AND POST SPACING SHALL BE SUBMITTED FOR APPROVAL.
 - GALVANIZING SHALL BE IN ACCORDANCE WITH ASTM A123.
 - EMBED (#4) ANCHOR BARS 5" WITH TYPE III (CLASS C) EPOXY MEETING THE REQUIREMENTS OF DMS-1600, "EPOXIES AND ADHESIVES", MIX AND DISPENSE ADHESIVE WITH NOZZLE/DUAL CARTRIDGE SYSTEM. CORE DRILL HOLES (PERCUSSION DRILLING NOT PERMITTED).
 - CONCRETE FOR CURB SHALL BE CLASS S CONCRETE. CONCRETE FOR PEDESTAL SHALL BE CLASS C CONCRETE OR BETTER. CONCRETE FOR CURB AND PEDESTAL WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN THE COST FOR "BICYCLE RAIL W/ PEDESTAL".



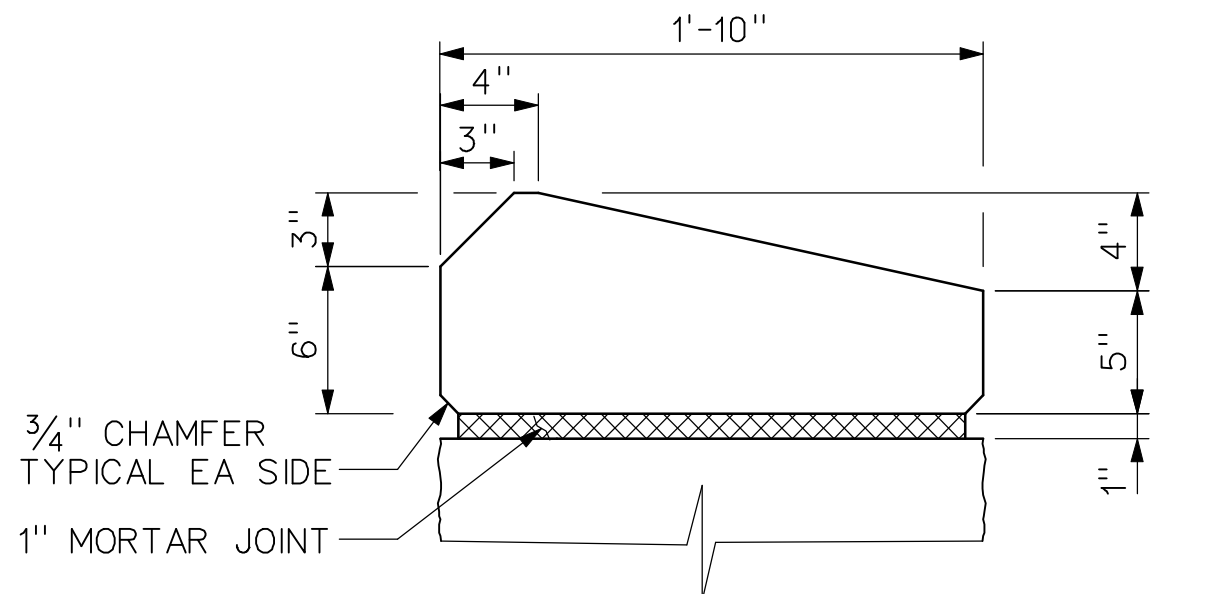
TYPICAL PEDESTAL SECTION ON APPROACH SLAB



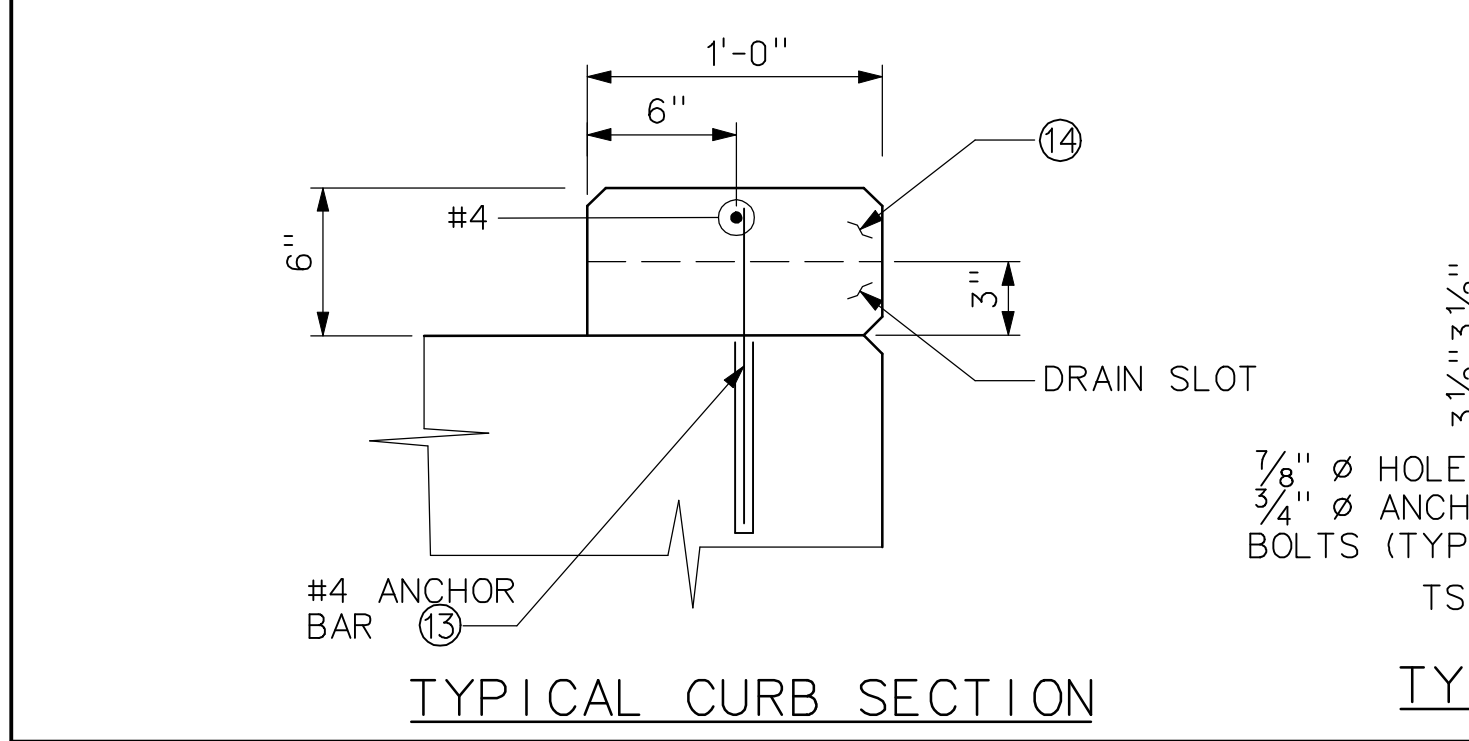
TYPICAL PEDESTAL SECTION ON BRIDGE



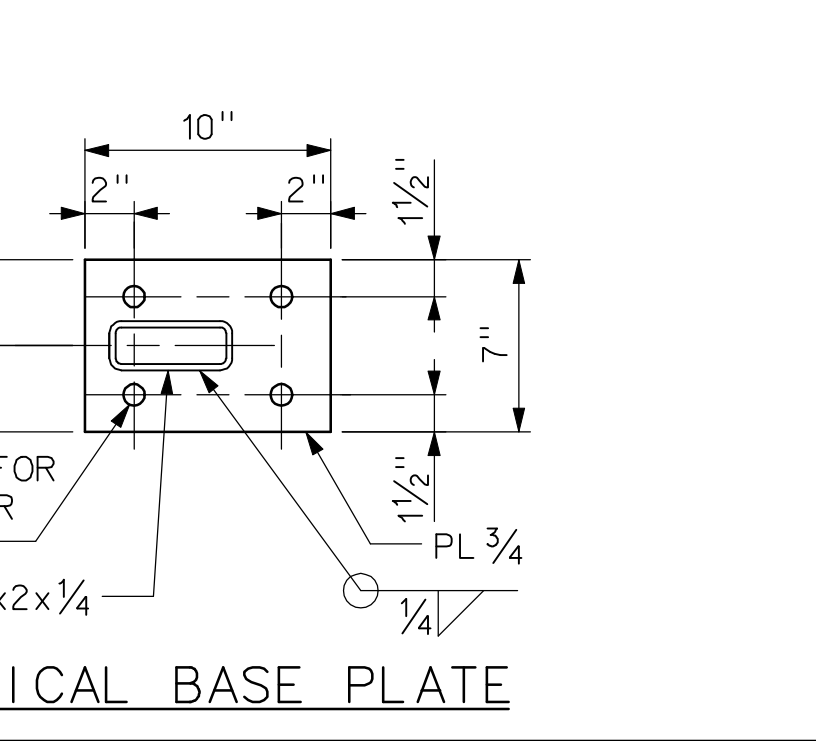
TYPICAL RAIL SECTION



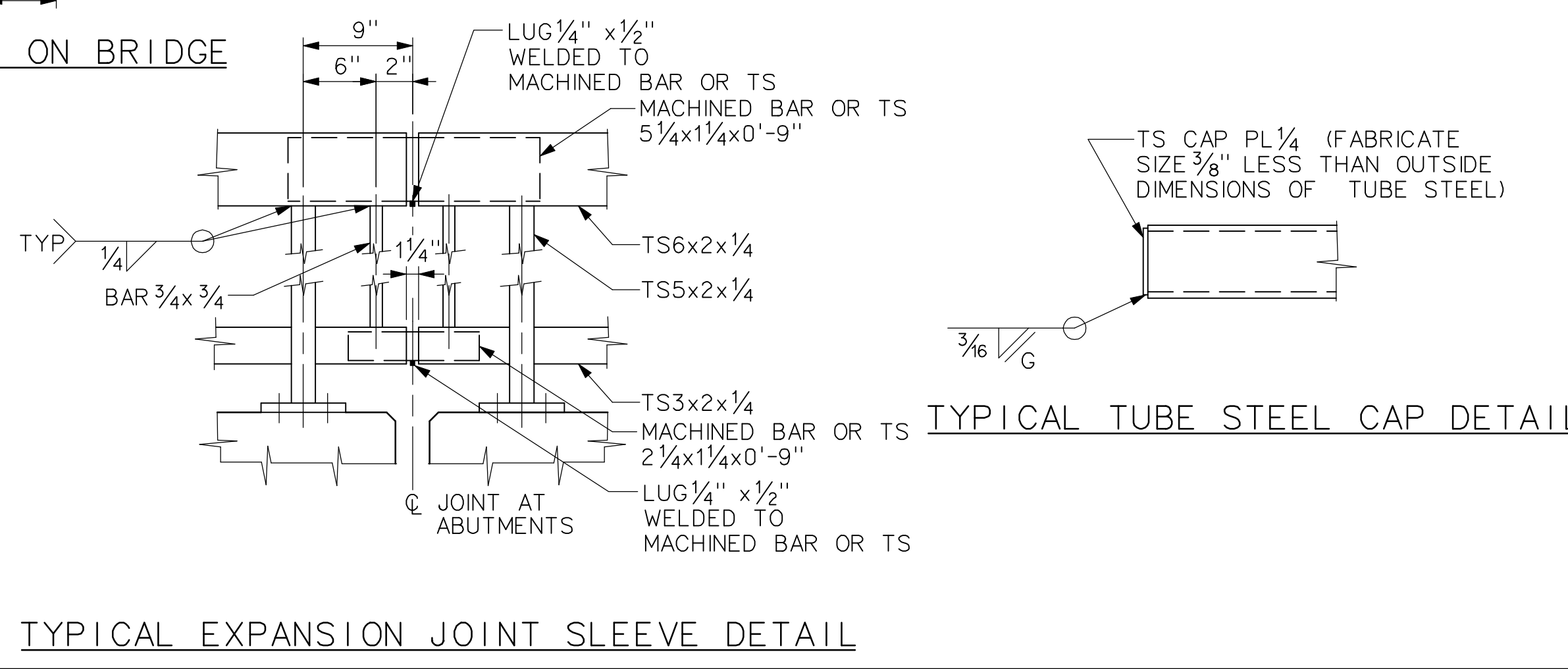
TYPICAL CAST STONE CAP DETAIL



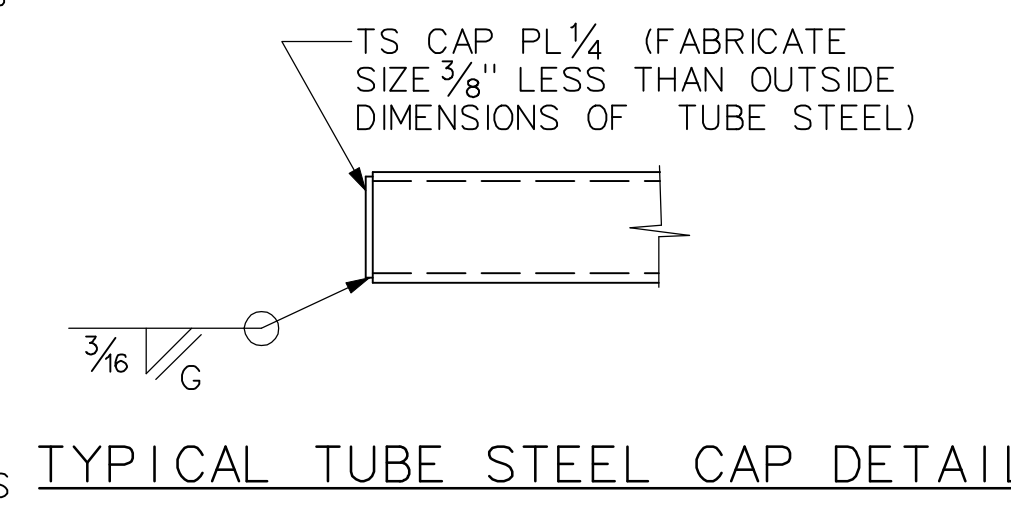
TYPICAL CURB SECTION



TYPICAL BASE PLATE



TYPICAL EXPANSION JOINT SLEEVE DETAIL



TYPICAL TUBE STEEL CAP DETAIL

RECORD DRAWING
 This drawing is a compilation of the original sealed engineering drawing and modifications by addenda, change orders and information furnished by the contractor. Information shown that was provided by the contractor and others not associated with the design engineer cannot be verified for accuracy or completeness. Original sealed drawing is on file at the office of AECOM USA Group, Inc., TBPE REG. NO. F-3082

ORIGINAL DRAWING SEALED & SIGNED BY
 Wally R. Burns, P.E.
 TX NO. 44162

HL93 LOADING			
NO.	REVISION	BY	DATE
205 BYPASS PHASE 4 205 BYPASS BRIDGES OVER HELPS CREEK BICYCLE RAIL WITH PILASTERS			
TCB AECOM		<small>TCB INC. WWW.TCB.AECOM.COM 17300 DALLAS PARKWAY, SUITE 1010 DALLAS, TEXAS 75248</small>	
Unit	PW-DAL-FW	Scale	NOT TO SCALE
Designed	SDH	Checked	TCB
Drawn	TCB	Approved	TCB
Date	11/23/2009	Project No.	60004153
Sheet	122	of	146

P:\3328\60004153-205bypass\cadd\sheet\phase 4-120-00 to 141+00\record drawing 10_7_09\122_205BP-BR-BP-FA.LL.dgn
 11/23/2009