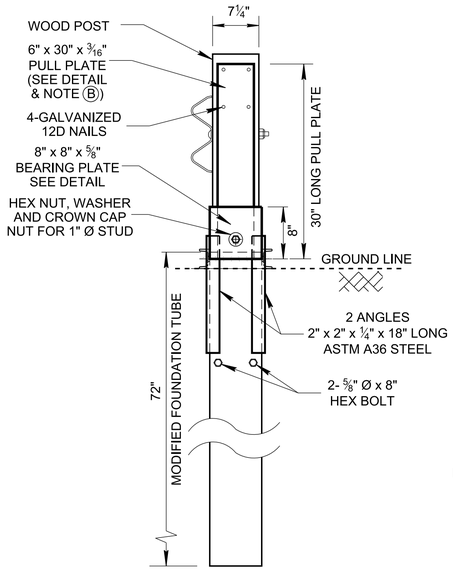
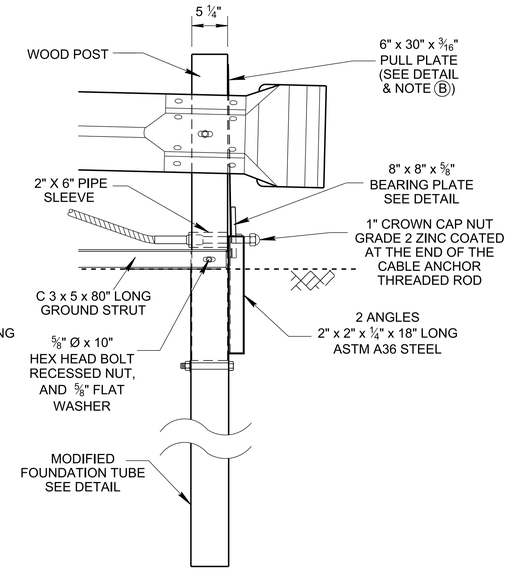


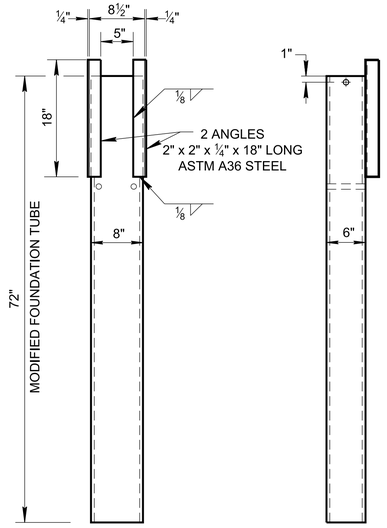
SIDE VIEW (END VIEW)



FRONT VIEW

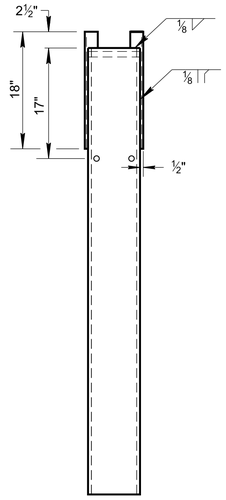
INSTALLATION DETAILS FOR POST 1

NOTE: PULL PLATE IS OVER TWO ANGLES ON MODIFIED FOUNDATION TUBE AND UNDER BEARING PLATE.

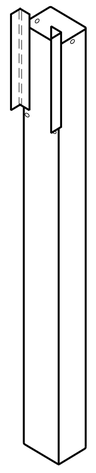


SIDE VIEW (END VIEW)

FRONT VIEW



BACK VIEW



ISOMETRIC VIEW

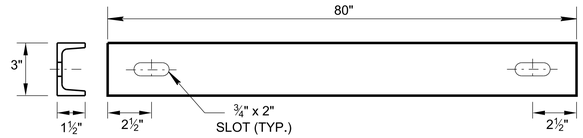
ISOMETRIC VIEW

MODIFIED STEEL FOUNDATION TUBE FOR POST 1

6"x 8"x ⅛" x 72" STEEL TUBE
ASTM A500 GRADE B

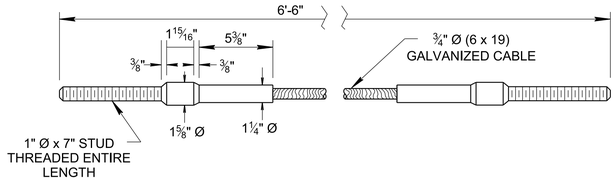
STEEL FOUNDATION TUBE FOR POST 2 & 3

6"x 8"x ⅛" x 72" STEEL TUBE
ASTM A500 GRADE B



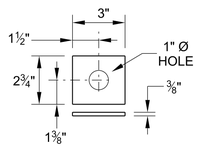
GROUND STRUT

C3 x 5 x 80", GRADE A36



STANDARD SWAGE FITTING AND STUD

NOTE: CABLE TO BE SWAGE- CONNECTED



END PLATE

GENERAL NOTES

(A) THE DRAWING ILLUSTRATES A FLARED TL-2 GATING TERMINAL USING SLOTTED GUARDRAIL WITH BREAKAWAY CABLE TERMINAL. THIS IS A TYPE OF ANCHOR DESIGN HAD ADAPTED A GENERIC CABLE ANCHOR DESIGN AND ADDED A NEW ANCHOR MECHANISM TO ENHANCE THE ANCHOR PERFORMANCE. THE NEW MECHANISM CONSISTS OF TWO STEEL ANGLES THAT ARE WELDED TO THE FOUNDATION TUBE OF THE FIRST POST AND A THIN GAUGE PULL PLATE THAT IS NAILED TO THE UPSTREAM FACE OF THE FIRST POST.

(B) A PULL PLATE AT THE UPSTREAM FACE OF THE FIRST POST TO FACILITATE THE RELEASE OF CABLE ANCHOR DURING IMPACTS ENGAGING THE FIRST POST, SUCH US HEAD-ON AND REVERSE IMPACT. PULL PLATE IS OVER TWO ANGLES ON MODIFIED FOUNDATION TUBE AND UNDER BEARING PLATE.

(C) TWO SUPPORT ANGLE SECTIONS TO BETTER HOLD THE BEARING PLATE AND TRANSFER ITS LOAD TO THE FOUNDATION TUBE.

(D) A CROWN NUT AT THE END OF THE CABLE ANCHOR THREADED ROD TO PREVENT THE ROD END FROM ENGAGING AND CUTTING THE BODY OF THE VEHICLE.

(E) REFER TO STANDARD DRAWING S-GRT-4 FOR GATING END TERMINAL GUARDRAIL AND S-GRT-4B FOR POST DETAILS.

(F) REFER TO STANDARD DRAWINGS S-GR31-1 SERIES FOR GUARDRAIL DETAILS AND S-GRA-3 FOR ADDITIONAL GUARDRAIL ANCHOR DETAILS.

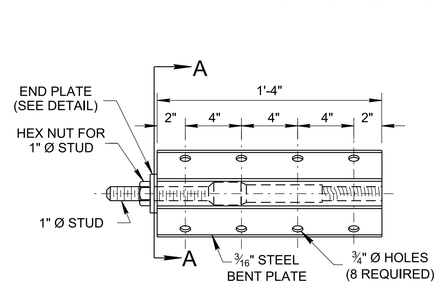
(G) ALL WELDING SHALL BE PERFORMED BY A WELDER QUALIFIED IN ACCORDANCE WITH THE AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE (LATEST EDITION).

(H) ALL HOLES IN WOOD POSTS ARE TO BE DRILLED BEFORE PRESERVATIVE TREATMENT IS APPLIED.

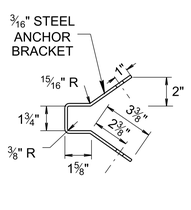
(I) ALL CUTTING, DRILLING, AND WELDING OF STEEL COMPONENTS SHALL BE DONE BEFORE GALVANIZING.

(J) THE FINISHED CABLE ASSEMBLY WILL NOT BE ACCEPTABLE UNLESS IT IS IN TENSION WITH NO SAG.

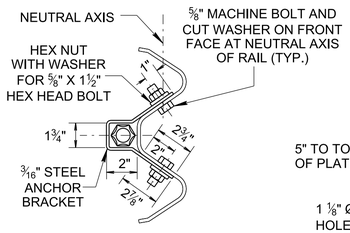
(K) PAYMENT FOR FURNISHING AND INSTALLING GUARDRAIL ELEMENTS SHALL BE INCLUDED IN THE PRICE BID FOR GR TERMINAL (GATING) (TYPE 21) MASH TL2.



FRONT VIEW



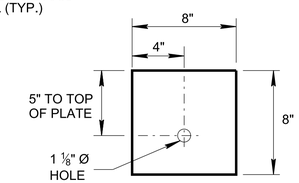
SIDE VIEW
(3/16" STEEL ANCHOR BRACKET)



SECTION A-A

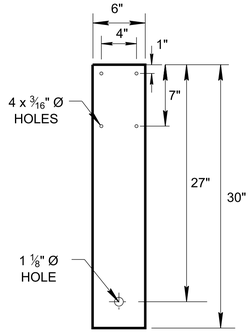
ANCHOR BRACKET ASSEMBLY DETAILS

(ANCHOR PLATE, (8) 5/8" X 1½" HEX HEAD BOLTS, NUTS, AND WASHERS)



NOTE: DRIVE NAILS AND BEND OVER TO PREVENT PLATE ROTATION

BEARING PLATE DETAIL
8"x 8"x 5/8" PLATE
ASTM A36 STEEL



PULL PLATE DETAIL
6" x 30" x ⅜" PLATE
ASTM A36 STEEL

NOT TO SCALE

STATE OF TENNESSEE
STANDARD DRAWING
DEPARTMENT OF TRANSPORTATION

TYPE 21 GATING END TERMINAL ANCHOR DETAILS

01-06-2024 | S-GRT-4A