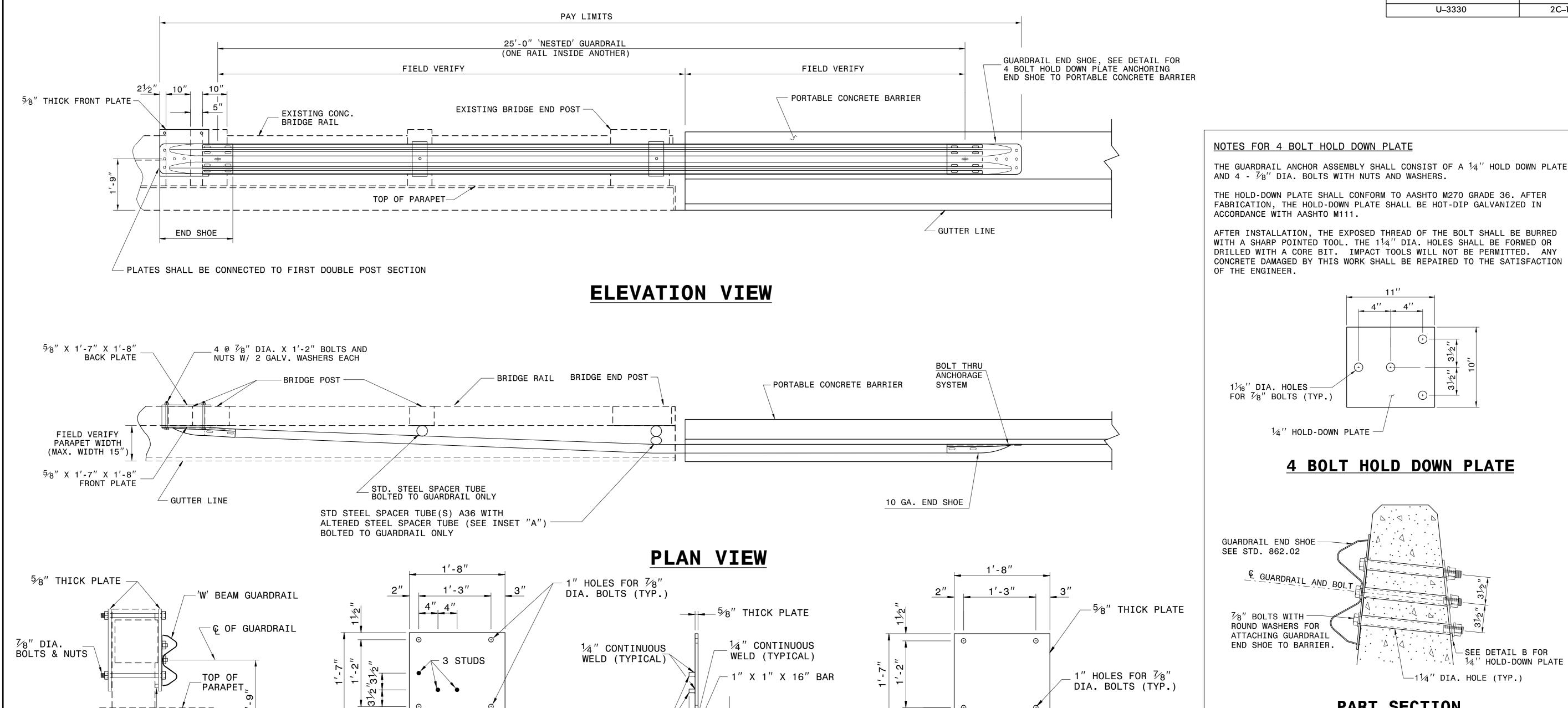
PROJECT REFERENCE NO. SHEET NO. 2C-1



## PART SECTION OF BARRIER OR RAIL

THRU END SHOE SECTION AND 4 BOLT HOLD DOWN PLATE

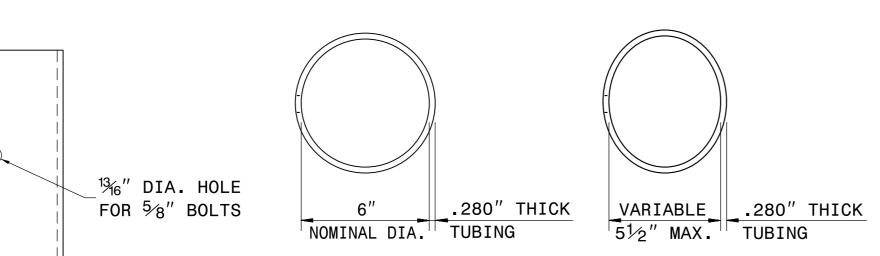
## FRONT PLATE

3-11/4" X 7/8" DIA.

THREADED STUDS

STUDS MAY BE ADJUSTED TO MEET FIELD CONDITIONS

(QTY. 3)



16"

FRONT VIEW

FRONT VIEW

BAR

(SEE NOTE 9)

**SECTION VIEW** 

PLAN VIEW

31/2"

**PLAN VIEW** INSET "A"

STEEL SPACER TUBE

GENERAL NOTES:

SIDE VIEW

√8" DIA. STUD BOLTS TO

BE FURNISHED W/NUT AND STD. WASHER

1. USE NUTS, BOLTS, AND WASHERS CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-307 AND GALVANIZED IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS

**BACK PLATE** 

2. TAP NUTS FOR THE  $7_8{}^{\prime\prime}$  DIA. STUDS AND BOLTS AFTER GALVANIZING SEE A.S.T.M. A-563.

3. USE PLATES AND TUBES CONFORMING TO THE REQUIREMENTS OF A.S.T.M. A-36 AND GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH SECTION 1076 OF STAND. SPECS.

4. ADDITIONAL FIELD HOLES MAY BE DRILLED IN STEEL RAIL AS DIRECTED BY THE ENGINEER.

5. INSTALL FACE OF GUARDRAIL AS NEAR AS POSSIBLE TO PLUMB WITH THE PARAPET FACE AT BRIDGE END POST SPACER TUBE LOCATION BY USING STANDARD OR ALTERED SPACER TUBES OR A COMBINATION THEREOF OR AS DIRECTED BY THE ENGINEER. FOR VERY SMALL PARAPET WIDTHS, GUARDRAIL MAY BE INSTALLED AGAINST BRIDGE RAIL WITHOUT SPACER TUBES.

- 6. DO NOT DRILL BRIDGE RAIL IN ORDER TO INSTALL GUARDRAIL ANCHOR UNIT. 7. KEEP TOE OF PORTABLE CONCRETE BARRIER FLUSH WITH FACE OF PARAPET.
- 8. ATTACH 1" X 1" BAR AND THREADED STUDS TO PLATE WITH 1/4" WELDS ALL AROUND.
- 9. 1" X 1" BAR MAY NOT BE NEEDED ON BRIDGE RAILS WHERE FACE OF RAIL DOES NOT PROJECT BEYOND FACE OF POST.

4/7/2017 Joel S. Howerton

> **DOCUMENT NOT CONSIDERED FINAL** UNLESS ALL SIGNATURES COMPLETED

**CONTRACT STANDARDS** AND DEVELOPMENT UNIT FAX 919-250-4119

TEMPORARY ANCHOR **UNIT TYPE W-BEAM** 

ORIGINAL BY: E.E. WARD DATE: <u>4-03</u> MODIFIED BY: E.E. WARD DATE: <u>6-04</u> CHECKED BY: