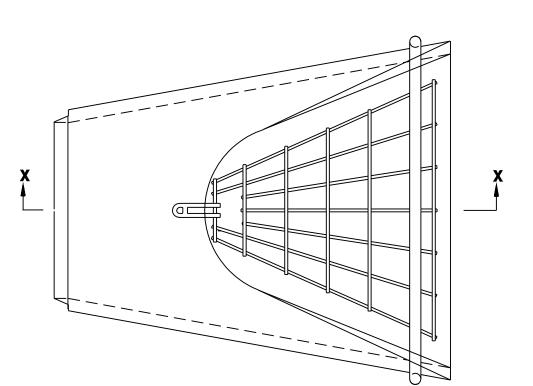
SHEET 1 OF 1

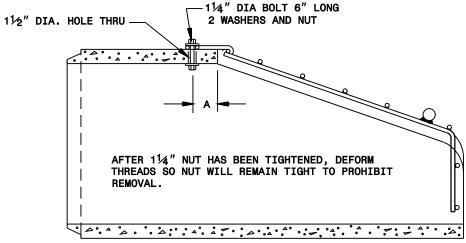
2 ED

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PLAN OF F.E.S. AND HINGED GRATE WITHOUT 114" DIA. BOLT AND NUT SHOWN

2" DIA. MIN. STEEL BAR



**SECTION X-X** 

<del>--||--</del>1½"

PLAN OF GRATE

FRONT ELEVATION OF F.E.S. & HINGED GRATE

BAR LENGTHS SIZE OF Ε SPA. DIST SPA. DIST 8" 31/2" 3" N/A N/A 3'-1" 101/2" 1'-1112" N/A 15" N/A 3 |51/8" 1'-41/2' N/A 3" 6" 1'-2½" 1'-9" 2'-4" N/A 6" 2 85/8" 85/8" 61/2" N/A 4'-6" 9" 9" 3'-1" 24" 4 3'-9" N/A 3'-0" 30"

## NOTES:

ALL WORK SHALL BE AS DIRECTED BY THE ENGINEER.

ALL STEEL FOR HINGED GRATE SHALL BE ROUND SMOOTH BARS MEETING THE REQUIREMENTS OF ASTM A-36.

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I-5932A

GRATE SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A-123.

ALL BARS TO BE 1 INCH DIAMETER UNLESS OTHERWISE

DIMENSIONS MAY BE ADJUSTED DUE TO FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CONNECTION OF 1" DIAMETER BARS TO 1" DIAMETER BARS TO BE MADE WITH  $\frac{3}{16}$  WELDS ALL AROUND.

CONNECTION OF 2" DIAMETER BARS TO 1" DIAMETER BARS TO BE MADE WITH 14" WELDS ALL AROUND.

ALL WELDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 1072-20 OF THE STANDARD SPECIFICATIONS.

STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C. NOI REINFORCED SECT FOR DRAWING N FOR ARED DETAIL GRATI ENGLISH

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