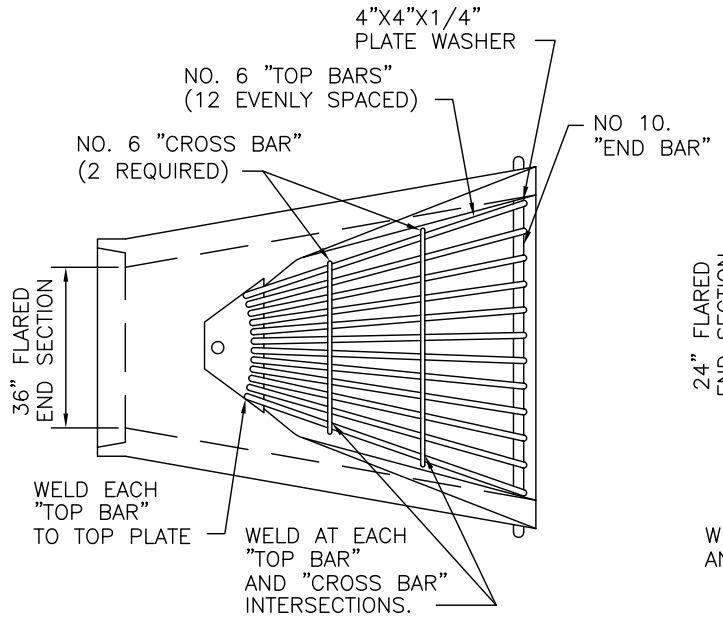
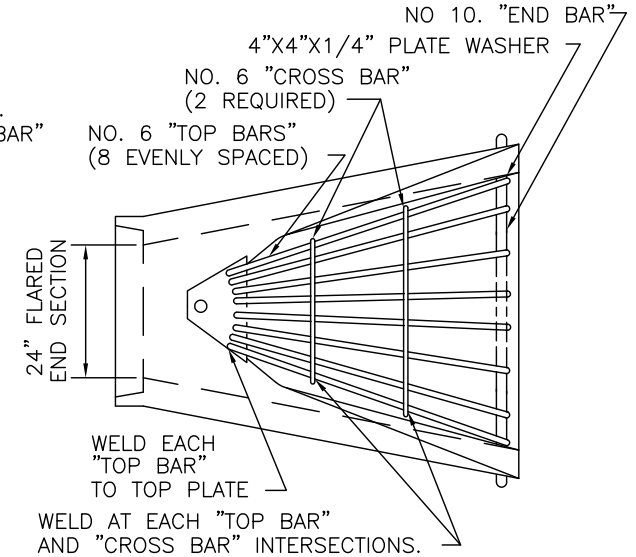


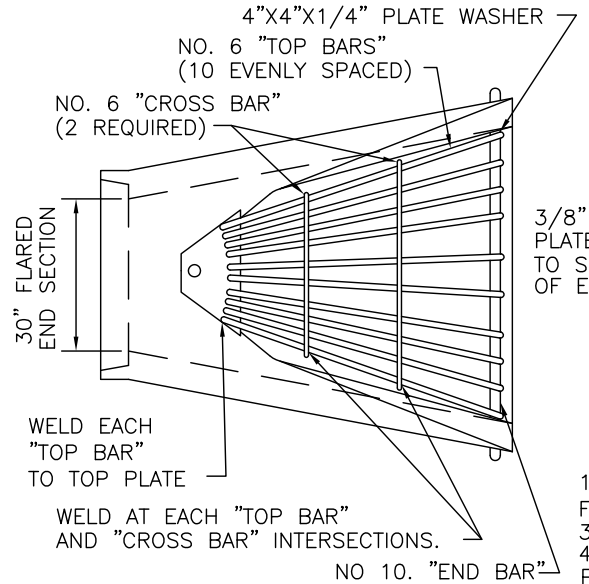

(36" DIAMETER FLARED END SECTION)

TYPICAL PLAN



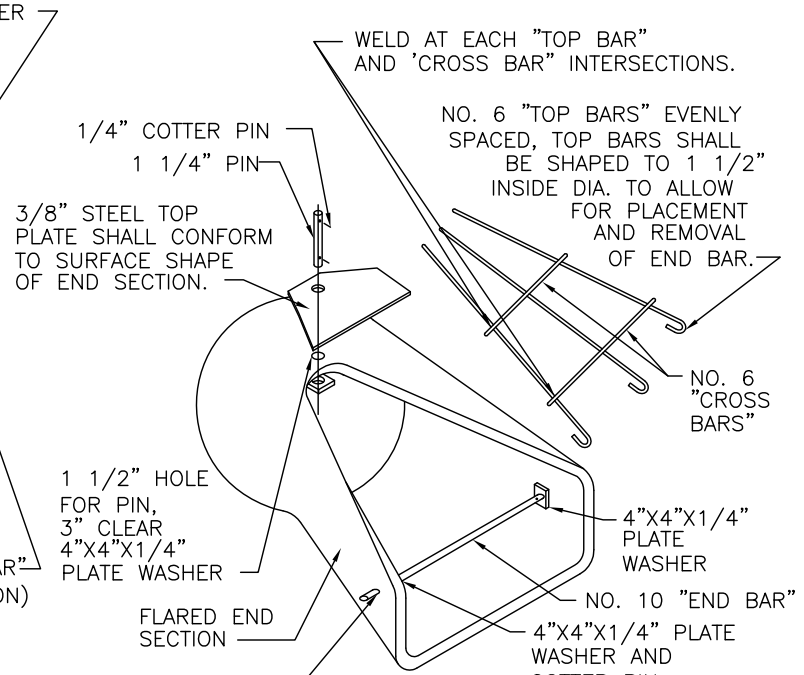

(24" DIAMETER FLARED END SECTION)

TYPICAL PLAN




(30" DIAMETER FLARED END SECTION)

TYPICAL PLAN




15" PIPE FLARED END SECTION, 6 "TOP BARS"
18" PIPE FLARED END SECTION, 7 "TOP BARS"
24" PIPE FLARED END SECTION, 8 "TOP BARS"
30" PIPE FLARED END SECTION, 10 "TOP BARS"
36" PIPE FLARED END SECTION, 12 "TOP BARS"

(TYPICAL FOR ALL TYPES OF
FLARED END SECTIONS)

INSTALLATION VIEW

NOTES:
1. STEEL BARS USED IN CONSTRUCTION OF THE GUARD SHALL BE ASTM A615, GRADE 40, OR MERCHANT QUALITY, SMOOTH OR DEFORMED STEEL.
2. THE COMPLETED GUARD SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH CURRENT ASTM A123 SPECIFICATIONS.
3. FLARED END SECTION GUARDS FOR SIZES OTHER THAN SHOWN SHALL BE OF SIMILAR DESIGN AND SHALL CONFORM TO MINIMUM BAR SPACING AND OTHER REQUIREMENTS.

| | |
|---|---|
| FILE NO.: 2400-024 | CEDAR RAPIDS METROPOLITAN AREA<br>STANDARD DETAILS FOR PUBLIC IMPROVEMENTS |
| APPROVAL DATE: AUG 1999 | |
| REVISION NO.: | FLARED END SECTION GUARD |
| REVISION DATE: | NO. 2400-024 |

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PROJECT NO: HX0789

DRAWN BY: BGA
APPROVED BY: GMH
DATE: 10/10/2012

| NO. | REVISION DESCRIPTION | APPROVED | DATE |
|---|---|---|---|

ALLTRANS, INC.
4403 1st Avenue S.E.
Cedar Rapids, Iowa 52402
Phone: (319) 393-8726

City of Holy Cross Subdivision No.3
Dubuque County, Iowa

Legend, Standard Details, And Bench Mark Information

SHEET NO. B.14 OF B.17