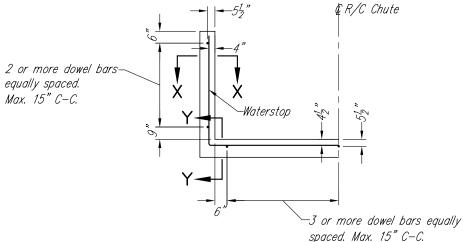
-Place two layers 55 lbs. per 100 sq.ft. (Approx. weight), smooth surface, asphalt treated roofing felt between the bottom of the upstream section and the top of the expansion joint.

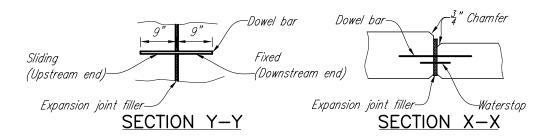
DOWEL BAR EXPANSION JOINT Not to Scale



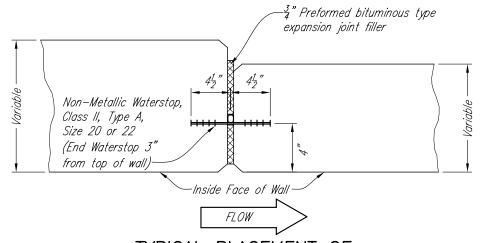
NOTE:

The dowel bars shall be placed parallel with the centerline of the chute and shall be placed on the same slope as the floor of the chute section.

Dowel bars shall be $\frac{3}{4}$ " diam. smooth steel bars coated on sliding end to prevent bond with concrete. Coating shall be one layer of asphalt or asphalt impregnated paper. End waterstop 3" from top of wall.



DOWEL BAR LAYOUT FOR DOWEL BAR EXPANSION JOINT Not to Scale



TYPICAL PLACEMENT OF WATERSTOP IN

DOWEL BAR EXPANSION JOINT Not to Scale

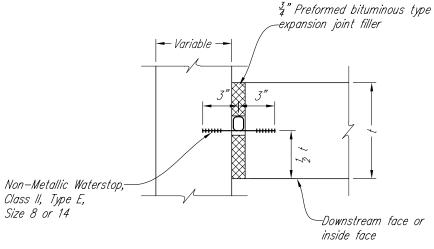
 $\frac{1}{4}$ " X 6" Steel plate to be continuous & of Wall thoughout construction joint. Where a splice is necessary, the ends shall be butt welded, lapped 3" and fillet welded, or lapped 3" and bolted. (Steel plate ends shall have a minimum of 2" concrete cover). Construction joint

Steel plate shall be free from dirt, oil, grease, paint, mill scale, loose or thick rust, or other coating which might destroy or reduce its bond with concrete.

Steel plate and installation to be included with unit price for concrete.

DETAIL OF SHEAR PLATE TYPE CONSTRUCTION JOINT Not to Scale

(Place bulb of Waterstop in an upstream or outside position)



TYPICAL PLACEMENT OF WATERSTOP IN VERTICAL CONSTRUCTION JOINT

Not to Scale

Place two layers 55 lbs. per 100 sq.ft.

(Approx. weight), smooth surface, asphalt treated roofing felt -Construction joint 3" Preformed bituminous typeexpansion joint filler

> AUXILIARY VIEW PIPE THROUGH WALL Not to Scale

279v.dwg

Drawing No.

STANDARD

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