NOTES:

Fill over top of cattle pass; 2' min, 15' max.

Design of flared end section shall conform to the intermediate section. Rounded edge permitted on sloped end.

Four foot lengths shall be used only to secure the required length of the cattle pass. Short sections shall be installed near ends. Not more than two 4' sections permitted in the structure.

All joints, including the end sections, shall be fielded with 1" tie bolts as shown on Standard Drawing D-714-22. Ties shall be inserted from the inside with the nuts on the outside. The joints should fit as tightly as possible, with a maximum of 1/4" between sections.

Longitudinal reinforcement denoted as As3 and As4 must be placed in all slabs and walls and must be 0.11 sq. in./ft. min.

Welded steel wire fabric shall conform to AASHTO M 55.

If the splices are not electrically welded, the reinforcement shall be sloped not less than 40 diameters. If the splices are electrically welded, the members at either a welded splice or intersection shall develop a tensile strength across the weld not less than the minimum required strength of the fabric. Welders shall be properly certified.

Cost of furnishing and installing eyebolts shall include the unit price bid for "End Section Cattle Pass". Eyebolts shall be galvanized according to AASHTO M 232.

All hardware embedded in the intermediate sections and end sections and all hardware used to fasten the intermediate sections and end sections together shall be included in the bid item "Cattle Pass Conc Intermediate Section".

LONGITUDINAL SECTION ON ξ

DETAILS OF INTERMEDIATE SECTION

DETAILS OF FLARED END SECTION

DESIGN STRENGTHS:

fc = 5,000 psi - Precast Concrete  
fy = 65,000 psi - Welded Wire Fabric Reinforcement

Load & Resistance Factor Design

STEEL AREA

(SQ IN PER LIN FT)

As1  0.26  0.11
As2  0.27  0.11
As3  0.27
As4  0.11

(Reinforcing Not Shown)

TONGUE AND GROOVE

JOINT DETAIL

Inside surface

1 1/8" cast hole
for 1" tie bolt

4 1/2" or 6 1/2"

Longitudinal Section on ξ

End View

Top View

4' X 6' PRECAST CONCRETE CATTLE PASS

Sym about ξ

1 1/2" cast hole
for 1" tie bolt

5/8" cast holes
for 1/2" eyebolts

Faces of wing walls to be vertical below this line.

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