



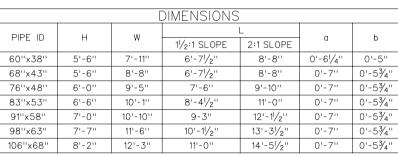
CONCRETE

& 3/4" LAG BOLTS

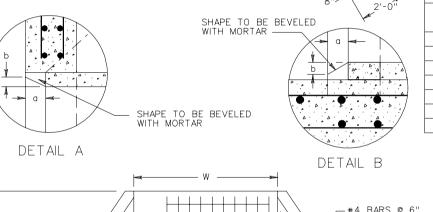
INSERTS

MIN. 2 PER SIDE MAX. SPACING 30"

- NOTES: 1. CONCRETE TO BE 4000 PSI MINIMUM COMPRESSIVE STRENGTH.
 - 2. IF PIPE IS TO BE SKEWED, THE OPENING WILL BE ADJUSTED TO ACCOMMODATE ANGLES UP TO 15°.
 - 3. REINFORCING STEEL IN ACCORDANCE WITH ASTM A-615 (REINFORCING BARS).
 - 4. PIPE OPENINGS IN PRECAST DRAINAGE UNITS SHALL NOT EXCEED 4 INCHES AT ANY GIVEN POINT BETWEEN THE PIPE AND THE PRECAST UNIT.
 - 5. DIMENSIONS SHOWN ARE MINIMUM. ACTUAL MEASUREMENTS MAY VARY WITH MANUFACTURER'S TOLERANCES.
 - 6. IN NO CASE SHALL TOP OF ENDWALL PROTRUDE ABOVE FILL SLOPE OR SHOULDER.
 - 7. HEADWALL TO BE BEVELED IN ALL AREAS EXCEPT WHERE A CONFLICT WITH INVERT OR WINGWALL OCCUR.
 - 8. BEVEL EDGE AS REQUIRED ON THE HEADWALL AT THE INLET END OF THE CULVERT (WHERE THE FLOW ENTERS THE CULVERT).
 - 9. HEADWALL AT THE OUTLET END OF THE CULVERT MAY BE EITHER SQUARE EDGE OR BEVEL EDGE.
 - 10. 34" CHAMFER MAY BE PROVIDED ON ALL EDGES AT MANUFACTURER'S OPTION.



SEE DETAIL A



PLAN

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Α

4'-0"

6''

Varies

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30°

#4 BARS @ 6" EACH WAY, EACH FACE #4 BARS @ 6" EACH WAY, EACH FACE FLOW #4 BARS @ 6" C-C EACH WAY, EACH FACE 10" SEE DETAIL B CONCRETE INSERTS 2'-0'' GROUT WINGS AND ENDWALL TO BASE SECTIONS & 3/4" LAG BOLTS

FRONT ELEVATION

SECTION A-A

SPECIFICATION REFERENCE

PRECAST ENDWALL FOR 60"x38"-106"x68" FLLIPTICAL PIPE CULVERTS

105 302

VIRGINIA DEPARTMENT OF TRANSPORTATION