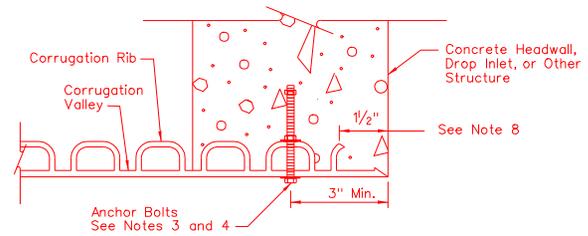
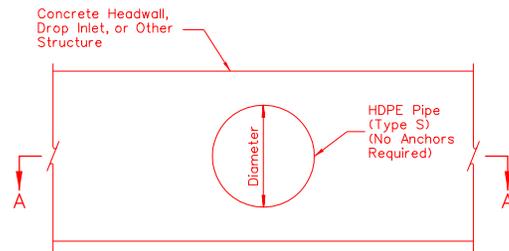


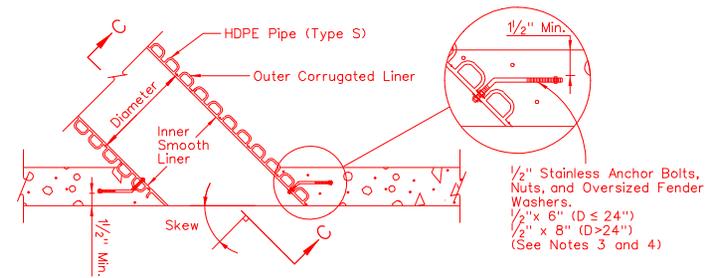
SECTION A-A



HALF-SECTION C-C

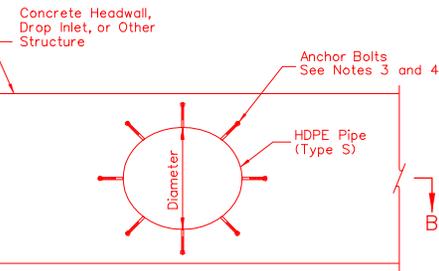


ELEVATION



SECTION B-B

HDPE PIPE CONNECTION FOR:  
 - 0° -5° Skew (D.I.'s and Other Enclosed Structures)  
 - 0° Skew (Headwalls)



ELEVATION

HDPE PIPE CONNECTION FOR:  
 - 2.5° -45° Skew (D.I.'s and Other Enclosed Structures)  
 - All Skewed Headwalls Connections

**NOTES:**

- FOR SKEW ANGLES ≤5 DEGREES, MAKE A PERPENDICULAR PIPE END-CUT AND ALLOW LONG SIDE OF PIPE TO PROJECT INTO STRUCTURE (EXCLUDING HEADWALLS). FOR HEADWALL CONNECTIONS, PIPE SHALL BE TRIMMED FLUSH WITH FACE OF HEADWALL FOR ALL SKEW ANGLES.
- HDPE PIPE END-CUTS SHALL BE MADE IN THE CENTER OF NEAREST CORRUGATION VALLEY WHERE POSSIBLE. ADJUST NON-CRITICAL STRUCTURE LOCATIONS (3" MAX) SO STRUCTURE FACE CORRESPONDS WITH CORRUGATION VALLEY WHERE APPROPRIATE AND AS DIRECTED BY THE ENGINEER.
- INSTALL 1/2" STAINLESS ANCHOR BOLTS, NUTS, AND OVERSIZED FENDER WASHERS 12" ±0.6" AROUND CIRCUMFERENCE OF PIPE. ADJUST ANCHOR POSITION TO FALL IN EITHER THE VALLEY OR RIB OF THE CORRUGATED OUTER LINER. ATTACH BOLT ANCHORS PERPENDICULAR TO PIPE WALL AND BEND ANCHOR OUTSIDE OF PIPE ATTACHMENTS AS NECESSARY TO FALL INSIDE CONCRETE WALL WITH A MINIMUM OF 1/2" CONCRETE COVER. NO DIRECT PAYMENT FOR ANCHOR BOLTS.
- DO NOT OVER TIGHTEN NUTS. TIGHTEN NUTS AGAINST OVERSIZED WASHERS AND HDPE PIPE WALL WITHOUT CRUSHING OR DEFORMING PIPE WALL. STAKE OR PEEN NON-EMBEDDED NUTS TO PREVENT LOOSENING.
- NO SPECIAL TREATMENT IS REQUIRED FOR CONNECTING HDPE PIPE TO CIRCULAR MANHOLES. MAKE PERPENDICULAR HDPE PIPE END-CUT IN CENTER OF CORRUGATION VALLEY.
- FOR ALL OTHER HDPE PIPE TERMINATIONS (I.E. PLANE END PIPES, END-SECTIONS, ETC.), PIPE END-CUTS SHALL BE CENTERED IN THE NEAREST CORRUGATION VALLEY.
- WATER-TIGHT CONNECTIONS CAN ONLY BE USED FOR 0° SKEWS. INSTALL EMBEDDED WATER STOP GASKET SUPPLIED BY MANUFACTURER ONLY WHEN WATER TIGHT JOINTS AND CONNECTIONS ARE SPECIFIED.
- TRIM INNER PIPE LINER FLUSH WITH STRUCTURE WALL. BEVEL OUTER CORRUGATION RIBS 1/2" FROM STRUCTURE WALL AROUND CIRCUMFERENCE OF THE PIPE TO ALLOW CONCRETE TO FILL VOID AT WALL FACE.

**DESIGN NOTES:**

- SKEW ANGLES BETWEEN HDPE PIPES AND STRUCTURES SHOULD BE AVOIDED. POSITION HDPE PIPES AND STRUCTURES AT 0 DEGREE SKEWS WHERE POSSIBLE AND PRACTICAL.

MAXIMUM HEIGHT OF COVER FOR HDPE PIPE (TYPE S)

PIPE DIAMETER	MINIMUM COVER*	MAXIMUM COVER**
12"-18"	1'	19'
24"-42"	1'	15'
48"	1'	14'

\* TO BOTTOM OF FLEXIBLE PAVEMENT OR TOP OF RIGID PAVEMENT.

\*\* BASED ON CLASS 2 BACKFILL MATERIAL AT 90% COMPACTION IN ACCORDANCE WITH ASTM D2321. CONSULT HYDRAULIC ENGINEER FOR LARGER FILL HEIGHT REQUIREMENTS.

NEVADA DEPARTMENT OF TRANSPORTATION

**HDPE PIPE  
(CONNECTION DETAILS  
AND FILL HEIGHT TABLE)**

Signed Original On File R-2.9.1 (502)  
 CHIEF HYDRAULICS ENGINEER ADOPTED 5/09 REVISION