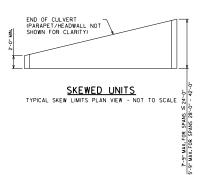
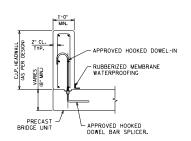
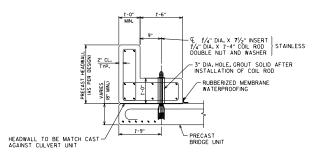


TYPICAL LIFT POINT SEALING DETAIL





CAST-IN-PLACE HEADWALL DETAIL



PRECAST HEADWALL DETAIL WITH COLLAR

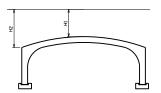
- LRFD COLLAR/HEADWALL DESIGN NOTES:

 HEADWALL DETAILS SHOWN HERE HAVE ONLY BEEN DESIGNED FOR THE FOLLOWING 2 LOAD CASES:

 DEARTH PRESSURE + LIVE LOAD SURCHARGE THESE DETAILS ARE NOT TO BE USED WHERE A VEHICLE LOAD CAN BE TRANSMITTED THROUGH A BARRIER TO THE HEADWALL.

 1-O" HEADWALL THICKNES 1-O" COLLAR THICKNESS 1-O" COLLAR THICKNESS SOLI BEHIND HEADWALL IS AT SAME ELEVATION AS TOP OF HEADWALL ADDITIONAL HW HEIGHT MAY BE ACHIEVED WITH ADDITIONAL STEEL REINFORCEMENT OR THICKENED COLLAR FOR THICKENED COLLAR FLORECEMENT OR THE FLORECEMENT OR THICKENED COLLAR FLORECEMENT OR THE FLORECEMENT OR THE

	H1	Н2
UNIT SPAN	MAX.HEIGHT & CROWN TO T/HEADWALL (NO LIVE LOAD SURCHARGE)	MAX. APPROXIMATE HEIGHT @ EDGE OF SPAN
14'-0"	8'-0"	9'-6¾"
20'-0" - 28'-0"	7'-0"	10'-0"
36'-0"	6'-0"	10'-6"
42'-0"	4'-0"	10'-0"



PRECAST THREE-SIDED BOX CULVERT HEADWALL DETAILS



APPROVED: Laura Shadewald