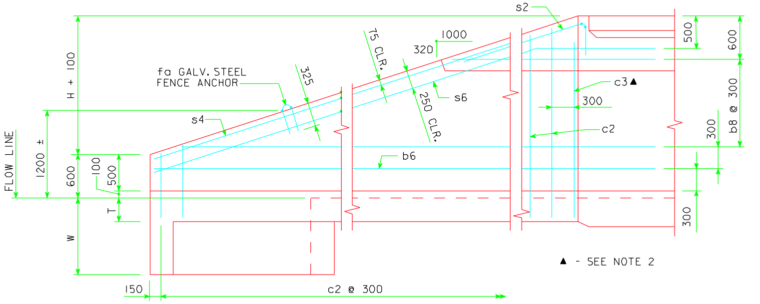
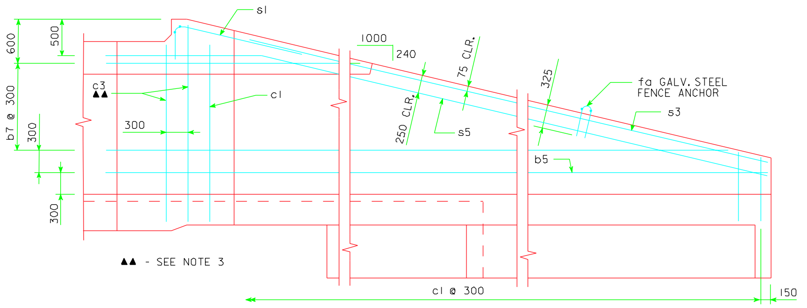
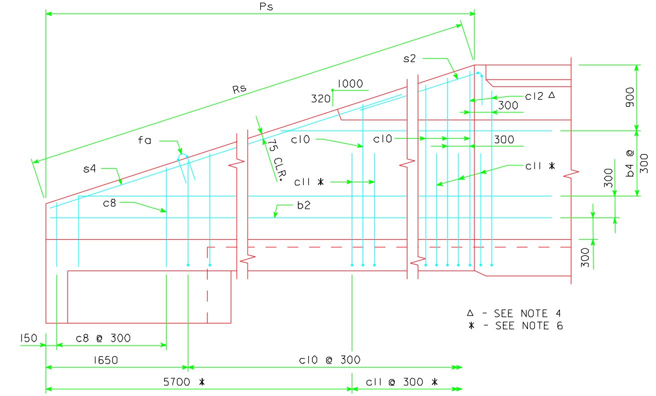


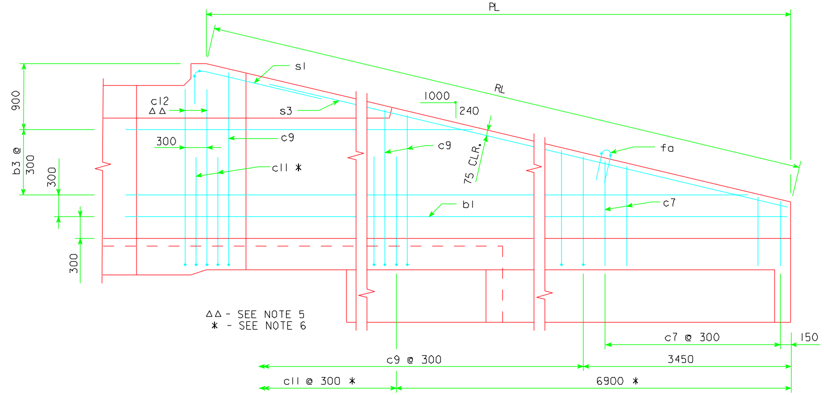
TYPICAL VIEW - FRONT FACE REINFORCING SHORT WINGWALL



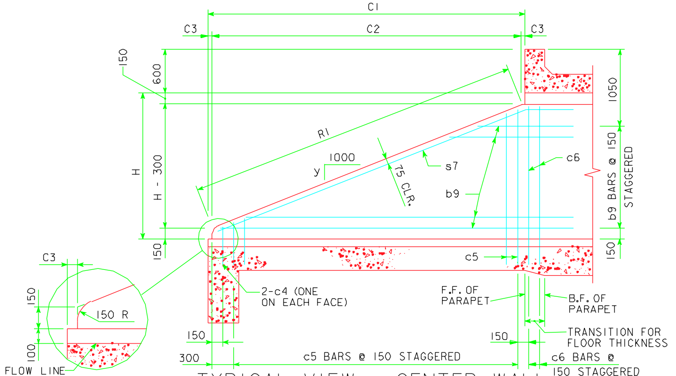
TYPICAL VIEW - FRONT FACE REINFORCING LONG WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING SHORT WINGWALL



TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL



TYPICAL VIEW - CENTER WALL

CULVERT HEIGHT (H)	SLOPE y mm
1800	352
2400	373
3000	385
3600	394

NOTE:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. ONE c3 BAR, HEADWALL HEIGHT OF H = 2400 mm AND TWO c3 BARS, HEADWALL HEIGHTS OF H = 1800 mm, H = 3000 mm, AND H = 3600 mm.
3. ONE c3 BAR, HEADWALL HEIGHT OF H= 1800 mm, H = 2400 mm AND TWO c3 BARS, HEADWALL HEIGHTS OF H = 3000 mm, AND H = 3600 mm.
4. ONE c12 BAR, HEADWALL HEIGHT OF H = 2400 mm AND TWO c12 BARS, HEADWALL HEIGHTS OF H = 1800 mm, H = 3000 mm, AND H = 3600 mm.
5. ONE c12 BAR, HEADWALL HEIGHT OF H= 1800 mm, H = 2400 mm AND TWO c12 BARS, HEADWALL HEIGHTS OF H = 3000 mm, AND H = 3600 mm.
6. NOT APPLICABLE TO HEADWALL HEIGHT OF H = 1800 mm.
7. FOR DIMENSION TABLE SEE SHEET MTWH 30-1-95.

LATEST REVISION DATE :

APPROVED BY :
William A. Lundquist

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
TWIN REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

JULY, 1995

MTWH 30-4-95