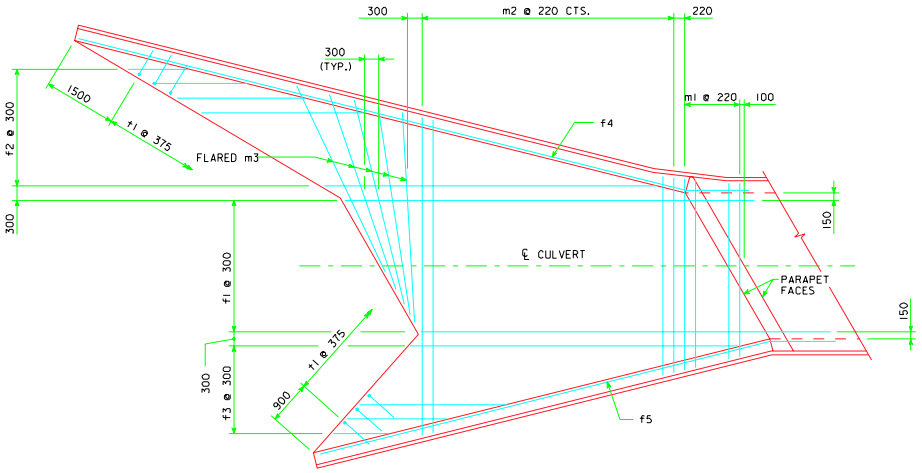
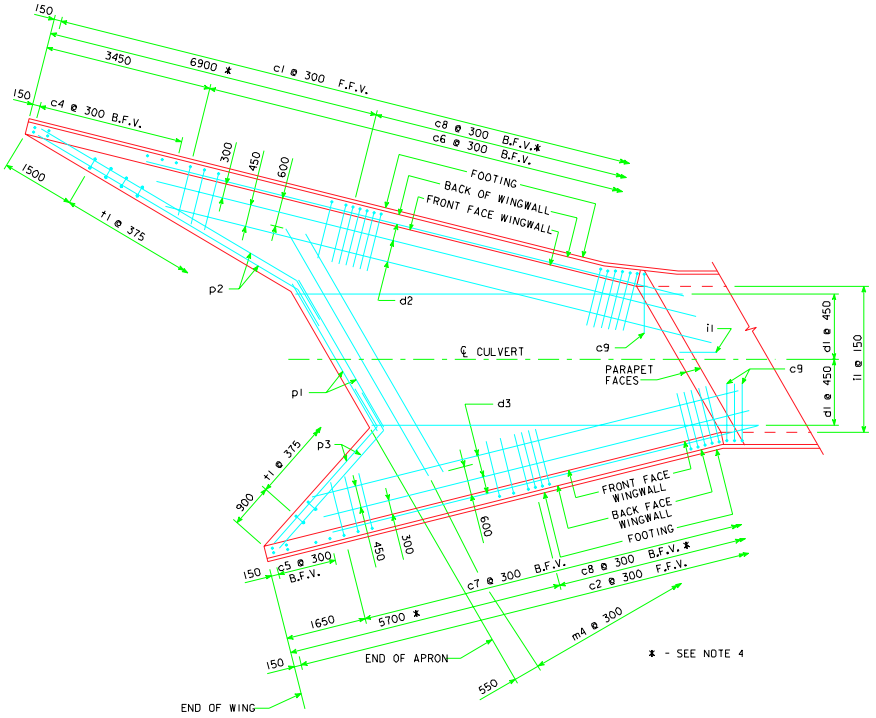
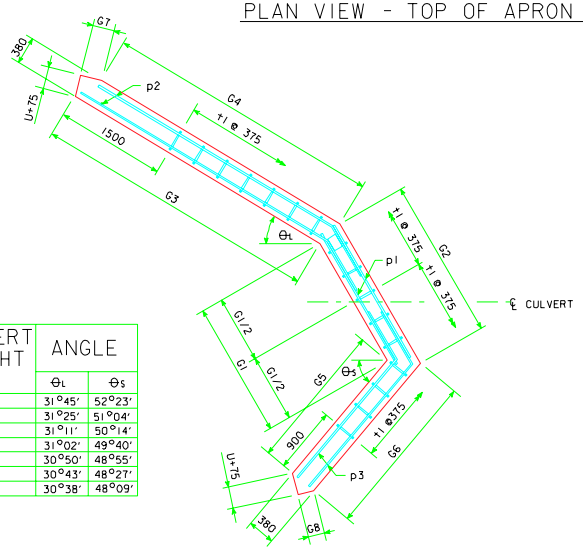


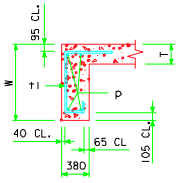
PLAN VIEW - TOP OF APRON REINFORCING BARS



PLAN VIEW - BOTTOM OF APRON REINFORCING BARS



PLAN



SECTION

CURTAIN WALL DETAILS

CULVERT HEIGHT (H)	ANGLE	
	θL	θS
900	31°45′	52°23′
1200	31°25′	51°04′
1500	31°11′	50°14′
1800	31°02′	49°40′
2400	30°50′	48°55′
3000	30°43′	48°27′
3600	30°38′	48°09′

NOTES:

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. WINGWALL BARS CONSISTENTLY REFERENCED FROM END OF WING FOR ALL HEADWALLS.
3. TOP TRANSVERSE FLOOR BARS ARE REFERENCED APPROXIMATELY 100 mm FROM THE BACK OF THE PARAPET FOR ALL HEADWALLS.
4. THERE ARE NO c8 BARS IN THE H=900, H=1200, H=1500, AND H=1800 HEIGHT HEADWALLS.
5. FOR DIMENSION TABLE SEE SHEET MFWH 30-6-95.

LATEST REVISION DATE :

APPROVED BY :

STANDARD DESIGN

FLARED WING HEADWALLS

FOR
REINFORCED CONCRETE BOX CULVERTS

PROJECT DEVELOPMENT DIVISION
IOWA DEPARTMENT OF TRANSPORTATION

JULY, 1995

MFWH 30-7-95

FWH30TM.S01

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXX