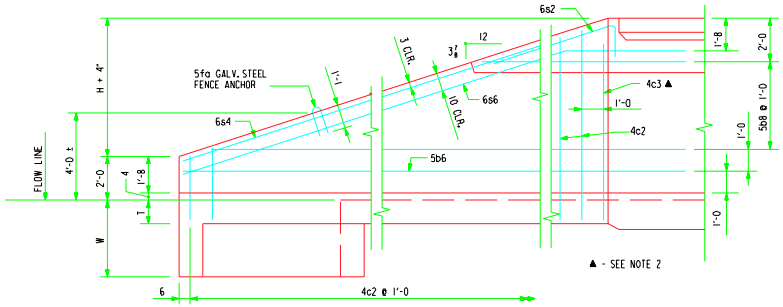
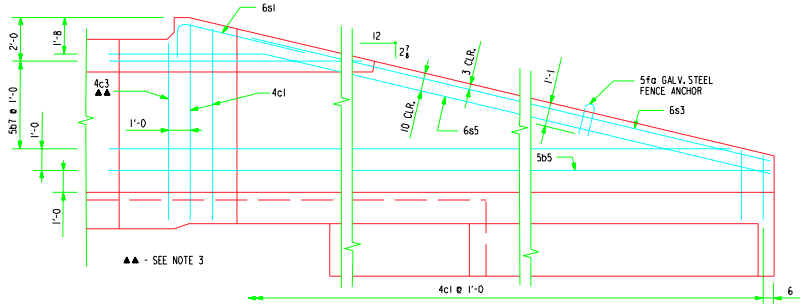
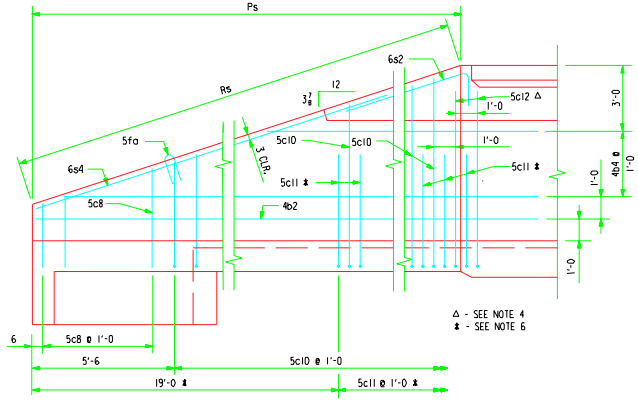


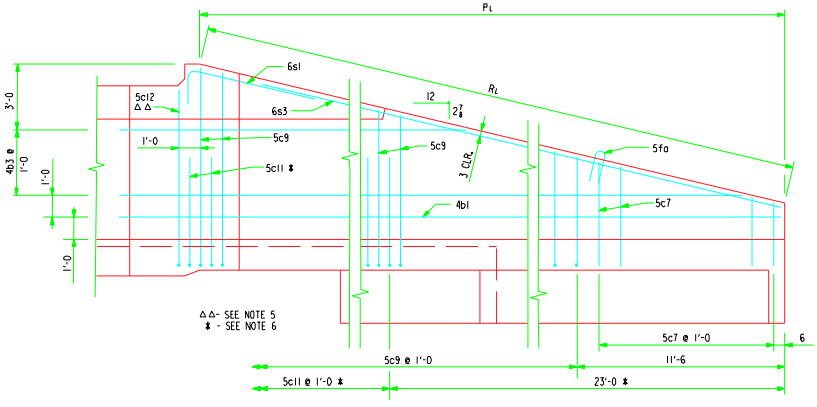

TYPICAL VIEW - FRONT FACE REINFORCING SHORT WINGWALL



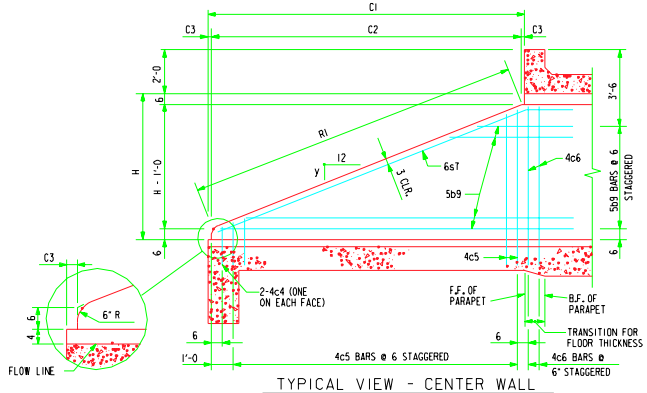

TYPICAL VIEW - FRONT FACE REINFORCING LONG WINGWALL




TYPICAL VIEW - BACK FACE REINFORCING SHORT WINGWALL




TYPICAL VIEW - BACK FACE REINFORCING LONG WINGWALL




TYPICAL VIEW - CENTER WALL

| CULVERT HEIGHT (H) | SLOPE y INCHES |
|---|---|
| 6' | 4½ |
| 8' | 4½ |
| 10' | 4½ |
| 12' | 4½ |

NOTES :

1. BAR SPACINGS AND POSITIONS SHOWN ARE SIMILAR FOR ALL SIZES OF HEADWALLS IN THIS STANDARD.
2. ONE 4c3 BAR, HEADWALL HEIGHTS OF H=6', H=8' AND TWO 4c3 BARS, HEADWALL HEIGHTS OF H=10' AND H=12'.
3. ONE 4c3 BAR, HEADWALL HEIGHT OF H=8' AND TWO 4c3 BARS, HEADWALL HEIGHTS OF H=6', H=10' AND H=12'.
4. ONE 5c12 BAR, HEADWALL HEIGHTS OF H=6', H=8' AND TWO 5c12 BARS, HEADWALL HEIGHTS OF H=10' AND H=12'.
5. ONE 5c12 BAR, HEADWALL HEIGHT OF H=8' AND TWO 5c12 BARS, HEADWALL HEIGHTS OF H=6', H=10' AND H=12'.
6. NOT APPLICABLE TO HEADWALL HEIGHT OF H=6'.
7. FOR DIMENSION TABLE SEE DRAWING TWH 30-1-87.

LATEST REVISION DATE :

APPROVED BY : William A. Knapp

STANDARD DESIGN

# FLARED WING HEADWALLS

FOR

TWIN REINFORCED CONCRETE BOX CULVERTS

HIGHWAY DIVISION

IOWA DEPARTMENT OF TRANSPORTATION

JULY , 1987

TWH 30-4-87

TWH304.S01

XXXXXXXXXXSYSTEMTIME XXXXXXXUSERNAME XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXDGNSPEC