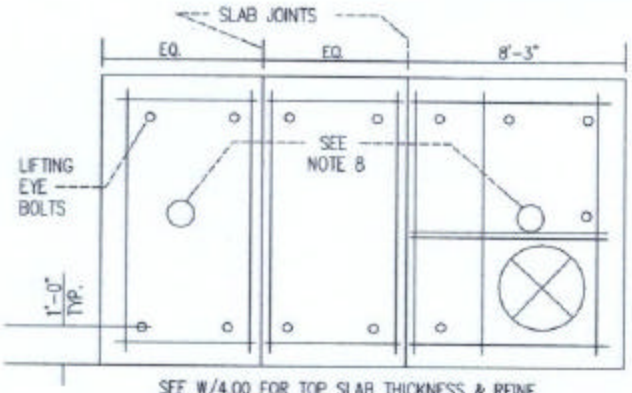
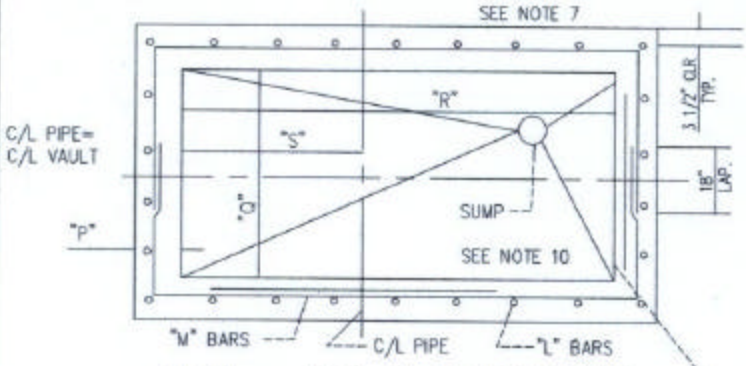


SEE W/4.00 FOR TOP SLAB THICKNESS & REINF.
SEE W/4.04 FOR JOINT & HATCH DETAIL

PLAN – TOP SLAB

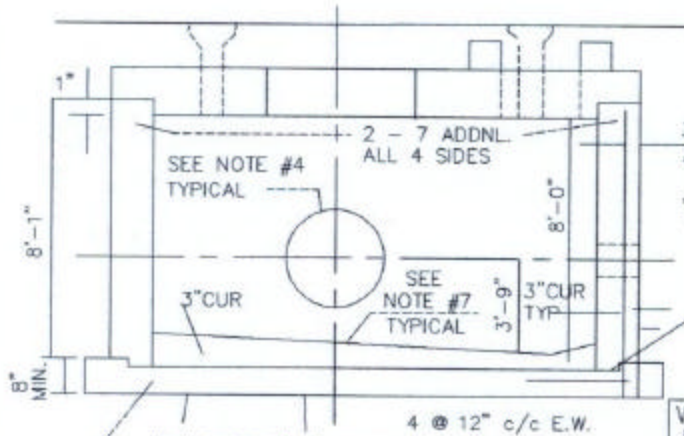


PLAN – TOP SLAB REMOVED

CAST IN PLACE CONCRETE VAULT NOTES

1. F'c = 4000 PSI @ 28 DAYS
2. f'y = 60,000 PSI.
3. VAULTS ARE DESIGNED FOR THE FOLLOWING CONDITION.
   A. H20 LOADING & 1'-0" COVER + IMPACT
   B. 8'-0" COVER & 2'-0" SURCHARGE WATER TABLE 4'-0" BELOW FINISHED GRADE FOR CASES (A) AND (B).
4. CONTRACTOR MAY USE PRECAST VAULT. SEE SPECS FOR SUBMITTAL REQUIREMENTS.
5. PROVIDE ADDNL "L" BARS 6'-0" LONG EACH SIDE OF ALL PIPES PASSING THRU WALLS.
6. PROVIDE 5" O HOLE IN TOP SLAB CENTERED OVER VALVE OPERATING NUTS. PROVIDE VALVE BOXES PER DETAIL W/4.04.
7. SLOPE BASE OF VAULT TO DRAIN @ 1/4"/LF.
8. PROVIDE ADDNL. "M" BARS x 6'-0" LONG TOP AND BOTTOM OF ALL PIPES PASSING THRU WALL.
9. FOR SUMP SEE W/6.12 NOTE #9.

MANHOLE STEPS TO BE CAST INTO CONCRETE.



SECTION

24"	8"	7-0"	13'-0"	4'-9"	#5@8"	#5@12"	#6@8"
30"	8"	7-0"	13'-0"	4'-9"	#5@8"	#5@12"	#6@6"
36"	8"	7-0"	15'-0"	5'-6"	#5@8"	#5@12"	#6@6"

3 1/2" CLEAR
4" TYPICAL

"P" "Q" "R" "S" "L" "M" "N"

PROVIDE 1 1/2" X 3 1/2" KEY – TYPICAL.

VALVE SIZE	"P"	"Q"	"R"	"S"	"L"	"M"	"N"
24"	8"	7'-0"	13'-0"	4'-9"	#5@8"	#5@12"	#6@8"
30"	8"	7'-0"	13'-0"	4'-9"	#5@8"	#5@12"	#6@8"
36"	8"	7'-0"	13'-0"	5'-6"	#5@8"	#5@12"	#6@8"

CHARLES COUNTY GOVERNMENT
DEPARTMENT OF PLANNING & GROWTH MANAGEMENT
APPROVED: 6/29/95
DIRECTOR OF DEVELOPMENT SERVICES DATE
6/29/95
WATER / SEWER ENGINEER DATE

STANDARD DETAIL
CAST IN PLACE CONC. VAULT FOR 16", 20" & 36" HORIZ. VALVES

REVISIONS:

W
3.05