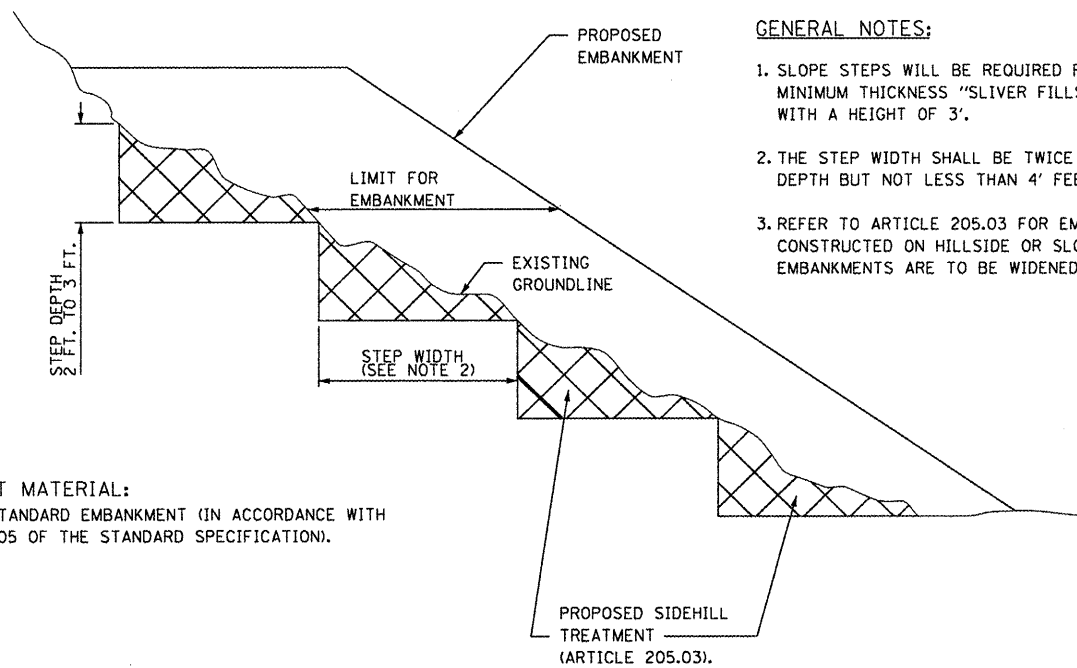


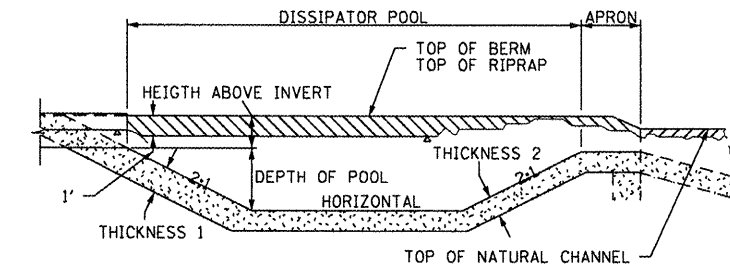
SLOPE STEPS DETAIL

TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. SLOPE STEPS WILL BE REQUIRED FOR ALL 12" MINIMUM THICKNESS "SLIVER FILLS" AND ON A FILLS WITH A HEIGHT OF 3'.
2. THE STEP WIDTH SHALL BE TWICE THE STEP DEPTH BUT NOT LESS THAN 4' FEET.
3. REFER TO ARTICLE 205.03 FOR EMBANKMENT TO BE CONSTRUCTED ON HILLSIDE OR SLOPES, OR IF EXISTING EMBANKMENTS ARE TO BE WIDENED.

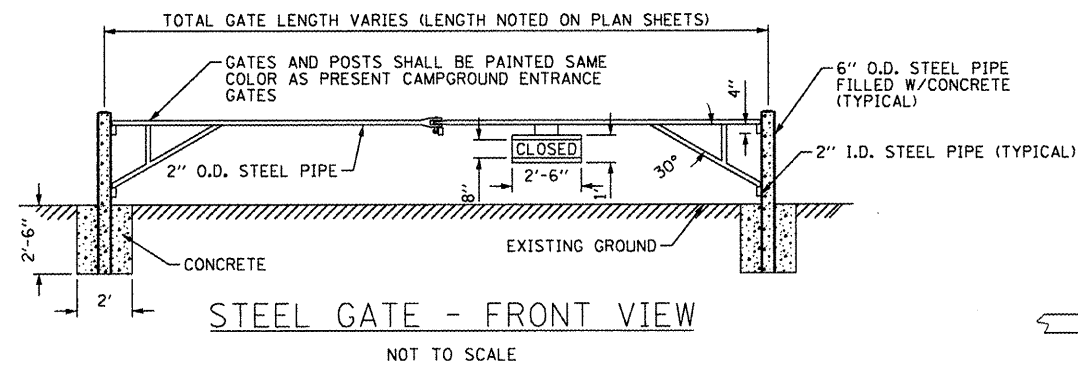


PLUNGE POOL SECTION
NOT TO SCALE

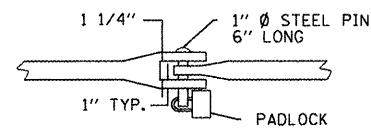
RIPRAP BASIN SIZING										
STATION	PIPE	RIPRAP AREA	POOL LENGTH	APRON LENGTH	DEPTH OF POOL	HEIGHT ABOVE INVERT				
LOCATION	SIZE	(SQ. YD.)	(FEET)	(FEET)	(FEET)	(FEET)	RIPRAP GRAD.	THICK. 1 (FEET)	THICK. 2 (FEET)	
MAIN ROAD										
LT 13+33	24"	18	8	4	0.4	1.7	RR 3	1.7	1.2	
LT 25+41	15"	12	5	2	0.5	1.7	RR 2	0.7	0.5	
LT 31+10	24"	15	6	3	0.6	1.6	RR 2	0.7	0.5	
LT 33+64	15"	8	4	1	0.1	1.7	RR 3	1.7	1.2	
LT 38+00	48" & 36"	260	24	31	2.4	3.3	RR 5	3.3	2.5	
LT 39+40	18"	18	5	6	0.5	1.9	RR 3	1.7	1.2	
LT 54+43	15"	10	4	4	0.3	1.5	RR 3	1.7	1.2	
LT 60+24	24"	14	6	2	0.4	1.7	RR 2	0.7	0.5	
LT 102+02	12"	10	5	3	0.5	1.4	RR 3	1.7	1.2	
LT 108+56	12"	12	5	4	0.5	1.5	RR 3	1.7	1.2	
LT 113+04	24"	15	6	2	0.4	2.3	RR 3	1.7	1.2	
LT 114+38	24"	12	5	2	0.3	1.9	RR 3	1.7	1.2	
LT 122+05	48"	48	12	5	0.9	2.9	RR 3	1.7	1.2	
LT 131+80	12"	10	5	2	0.5	1.4	RR 2	0.7	0.5	
LT 137+11	24"	36	9	8	1.0	2.1	RR 3	1.7	1.2	
LT 141+97	18"	30	11	5	1.1	1.7	RR 3	1.7	1.2	
LT 150+95	15"	12	5	2	0.5	1.8	RR 3	1.7	1.2	
RT 164+68	12"	12	3	5	0.3	1.7	RR 3	1.7	1.2	
LT 168+66	18"	21	5	8	0.3	2.1	RR 3	1.7	1.2	
LT 174+79	2 @ 48"	63	12	5	1.0	3.5	RR 4	2.5	1.9	
RT 192+93	EQV 18"	16	6	2	0.0	2.0	RR 3	1.7	1.2	
LT 199+03	24"	21	6	5	0.3	2.0	RR 3	1.7	1.2	
LT 205+84	2 @ EQV 48"	272	16	27	1.6	4.2	RR 4	2.5	1.9	
LT 216+23	EQV 48"	82	15	11	0.1	3.3	RR 3	1.7	1.2	
LT 220+56	24"	53	15	7	1.5	2.2	RR 3	1.7	1.2	
ENTRANCE ROAD										
RT 1505+74	EQV 30"	28	8	2	0.8	2.5	RR 3	1.7	1.2	

REPLACEMENT MATERIAL:

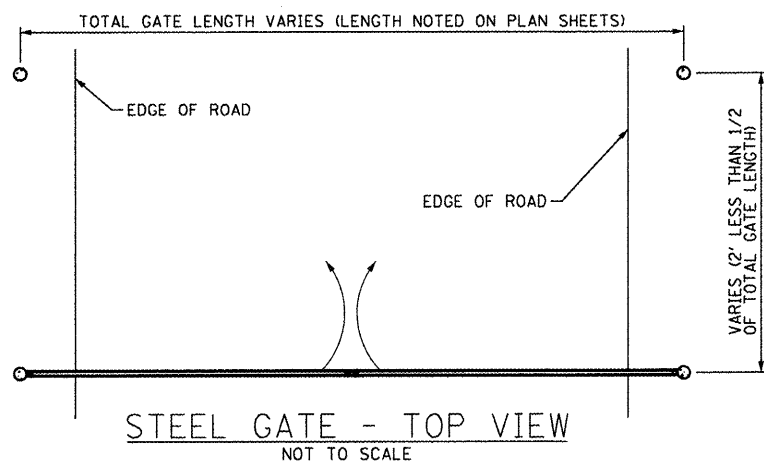
STANDARD EMBANKMENT (IN ACCORDANCE WITH 205 OF THE STANDARD SPECIFICATION).



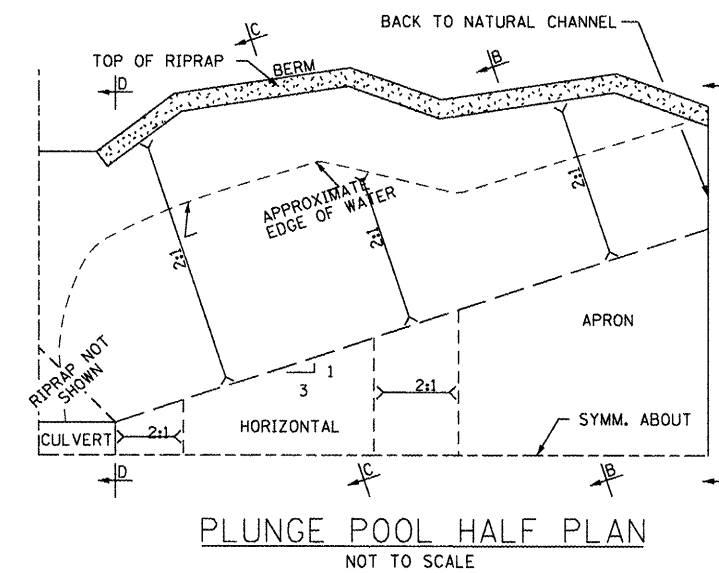
STEEL GATE - FRONT VIEW
NOT TO SCALE



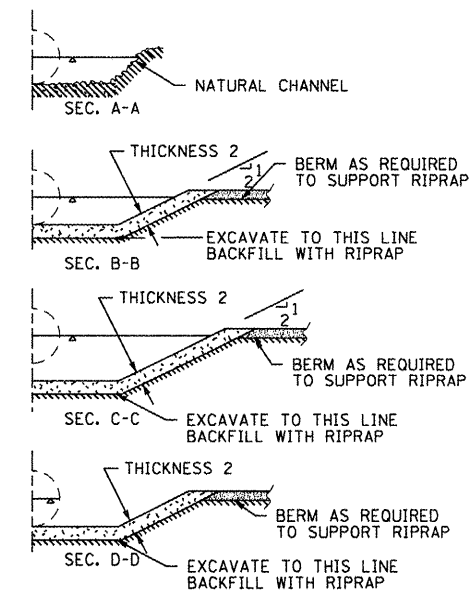
STEEL GATE - CATCH DETAIL
NOT TO SCALE



STEEL GATE - TOP VIEW
NOT TO SCALE



PLUNGE POOL HALF PLAN
NOT TO SCALE



FILE NAME =	USER NAME = #USER#	DESIGNED - R.J.D.	REVISED -
#FILE#		DRAWN - J.T.T.	REVISED -
	PLOT SCALE = #SCALE#	CHECKED - R.J.D.	REVISED -
	PLOT DATE = #DATE#	DATE - 4/4/12	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WASHINGTON COUNTY CONSERVATION AREA
DETAILS - RIP RAP, SLOPE STEPS, & STEEL GATE
SCALE: SHEET NO. 81 OF 112 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		WASHINGTON	112	81
			CONTRACT NO.	46223
ILLINOIS' FEEL AND PROJECT				

DESIGN FIRM REGISTRATION NUMBER 184-002107