I.D. PIPE	FILL SLOPE	DIMENSIONS L	M	N	O	P	Q	T	REINFORCEMENT MK	SIZE	NO.	a	b	TOTAL	QUANTITY SPAC.	TYPE	CONC. (C.Y.)	STEEL (LBS.)
72"	2:1	7'-4"	3'-6"	7'-1"	8'-0"	23'-3"	10'-9"	12"	DI	4	12			5'-1"	18" cc	BENT	11.22	972
									D2	4	4			4'-4"	18" cc	BENT		
									EI	5	2			22'-9"	18" cc	STR.		
									E2	5	1			20'-8"	18" cc	STR.		
									E3	5	1			17'-8"	18" cc	STR.		
									E4	5	1			14'-8"	18" cc	STR.		
									F	5	2			9'-11"	5" cc	STR.		
									G	5	4	7'-7"	11'-9"	31'-1"		BENT		
									H	5	18			10'-1"		STR.		
									VI	5	2	2'-0"	4'-2"	6'-2"	18" cc	BENT		
									THRU 6" INCREMENTS									
									V6	5	2	2'-0"	6'-8"	8'-8"	18" cc	BENT		
									V7	6	2	2'-0"	7'-2"	9'-2"	18" cc	BENT		
									H2	4	8		5'-0"			STR.		
									KI	5	2	2'-0"	2'-7"	4'-7"	18" cc	BENT		
									THRU 6" INCREMENTS									
									K6	5	2	2'-0"	5'-1"	7'-1"	18" cc	BENT		
									K7	6	2	2'-0"	5'-7"	7'-7"	18" cc	BENT		
									PI	5	2	2'-0"	4'-2"	6'-2"	18" cc	BENT		
									THRU 6" INCREMENTS									
									P7	5	2	2'-0"	7'-2"	9'-2"	18" cc	BENT		
									JI	5	4			1'-3"	18" cc	STR.		
									J2	5	4			2'-6"	18" cc	STR.		
84"	2:1	8'-6"	4'-0"	8'-2"	9'-2"	26'-9"	12'-5"	12"	DI	4	14			5'-1"	18" cc	BENT	14.25	1095
									D2	4	4			4'-4"	18" cc	BENT		
									EI	5	2			26'-3"	18" cc	STR.		
									E2	5	1			24'-2"	18" cc	STR.		
									E3	5	1			21'-2"	18" cc	STR.		
									E4	5	1			18'-2"	18" cc	STR.		
									F	5	2			11'-1"	5" cc	STR.		
									G	5	4	8'-9"	13'-8"	36'-1"		BENT		
									H	5	18			11'-9"		STR.		
									VI	5	2	2'-0"	4'-8"	6'-8"	18" cc	BENT		
									THRU 6" INCREMENTS									
									V5	5	2	2'-0"	6'-8"	8'-8"	18" cc	BENT		
									V6	6	2	2'-0"	7'-2"	9'-2"	18" cc	BENT		
									V7	6	2	2'-0"	7'-8"	9'-8"	18" cc	BENT		
									V8	7	2	2'-0"	8'-3"	10'-3"	18" cc	BENT		
									KI	5	2	2'-0"	2'-10"	4'-10"	18" cc	BENT		
									THRU 6" INCREMENTS									
									K5	5	2	2'-0"	4'-10"	6'-10"	18" cc	BENT		
									K6	6	2	2'-0"	5'-4"	7'-4"	18" cc	BENT		
									K7	6	2	2'-0"	5'-10"	7'-10"	18" cc	BENT		
									K8	7	2	2'-0"	6'-4"	8'-4"	18" cc	BENT		
									PI	5	2	2'-0"	4'-8"	6'-8"	18" cc	BENT		
									THRU 6" INCREMENTS									
									P8	5	2	2'-0"	8'-2"	10'-2"	18" cc	BENT		
									JI	5	4			1'-5"	18" cc	STR.		
									J2	5	4			2'-10"	18" cc	STR.		
									H2	4	8			6'-6"		STR.		
96"	2:1	9'-8"	4'-6"	9'-3"	10'-4"	30'-3"	14'-1"	12"	DI	4	16			5'-1"	18" cc	BENT	18.30	1485
									D2	4	4			4'-4"	18" cc	BENT		
									EI	5	2			29'-9"	18" cc	STR.		
									E2	5	1			27'-8"	18" cc	STR.		
									E3	5	1			24'-8"	18" cc	STR.		
									E4	5	1			21'-8"	18" cc	STR.		
									E5	5	1			18'-8"	18" cc	STR.		
									F	5	2			12'-3"	5" cc	STR.		
									G	5	4	9'-11"	15'-5"	40'-9"		BENT		
									H	5	18			13'-5"		STR.		
									VI	5	2	2'-0"	5'-2"	7'-2"	18" cc	BENT		
									THRU 6" INCREMENTS									
									V4	5	2	2'-0"	6'-8"	8'-8"	18" cc	BENT		
									V5	6	2	2'-0"	7'-3"	9'-3"	18" cc	BENT		
									V6	6	2	2'-0"	7'-9"	9'-9"	18" cc	BENT		
									V7	7	2	2'-0"	8'-3"	10'-3"	18" cc	BENT		
									V8	7	2	2'-0"	8'-10"	10'-10"	18" cc	BENT		
									V9	8	2	2'-0"	9'-4"	11'-4"	18" cc	BENT		
									V0	8	2	2'-0"	9'-10"	11'-10"	18" cc	BENT		
									KI	5	2	2'-0"	3'-1"	5'-1"	18" cc	BENT		
									THRU 6" INCREMENTS									
									K4	5	2	2'-0"	4'-7"	6'-7"	18" cc	BENT		
									K5	6	2	2'-0"	5'-1"	7'-1"	18" cc	BENT		
									K6	6	2	2'-0"	5'-7"	7'-7"	18" cc	BENT		
									H2	4	8			8'-0"		STR.		

I.D. PIPE	FILL SLOPE	DIMENSIONS L	M	N	O	P	Q	T	REINFORCEMENT MK	SIZE	NO.	a	b	TOTAL	QUANTITY SPAC.	TYPE	CONC. (MD)	STEEL (kg)
96"									K7	7	2	2'-0"	6'-1"	8'-1"	18" cc	BENT		
									K8	7	2	2'-0"	6'-7"	8'-7"	18" cc	BENT		
									K9	8	2	2'-0"	7'-1"	9'-1"	18" cc	BENT		
									PI	5	2	2'-0"	5'-2"	7'-2"	18" cc	BENT		
									THRU 6" INCREMENTS									
									P10	5	2	2'-0"	9'-8"	11'-8"	18" cc	BENT		
									JI	5	4			1'-7"	18" cc	STR.		
									J2	5	4			3'-2"	18" cc	STR.		
108"	2:1	10'-10"	5'-0"	10'-4"	11'-6"	33'-9"	15'-9"	12"	DI	4	19			5'-1"	18" cc	BENT	22.48	1927
									D2	4	4			4'-4"	18" cc	BENT		
									EI	5	2			33'-3"	18" cc	STR.		
									E2	5	1			31'-2"	18" cc	STR.		
									E3	5	1			28'-2"	18" cc	STR.		
									E4	5	1			25'-2"	18" cc	STR.		
									E5	5	1			22'-2"	18" cc	STR.		
									F	5	2			13'-5"	5" cc	STR.		
									G	5	4	11'-1"	17'-4"	45'-9"		BENT		
									H	5	22			15'-1"		STR.		
									VI	5	2	2'-0"	5'-8"	7'-8"	18" cc	BENT		
									THRU 6" INCREMENTS									
									V4	5	2	2'-0"	7'-2"	9'-2"	18" cc	BENT		
									V5	6	2	2'-0"	7'-8"	9'-8"	18" cc	BENT		
									V6	6	2	2'-0"	8'-2"	10'-2"	18" cc	BENT		
									V7	7	2	2'-0"	8'-9"	10'-9"	18" cc	BENT		
									V8	8	2	2'-0"	9'-3"	11'-3"	18" cc	BENT		
									V9	8	2	2'-0"	9'-9"	11'-9"	18" cc	BENT		
									V10	9	2	2'-0"	10'-4"	12'-4"	18" cc	BENT		
									VI	9	2	2'-0"	10'-10"	12'-10"	18" cc	BENT		
									H2	4	8			9'-0"		STR.		
									KI	5	2	2'-0"	3'-4"	5'-4"	18" cc	BENT		
									THRU 6" INCREMENTS									
									K3	5	2	2'-0"	4'-4"	6'-4"	18" cc	BENT		
									K4	6	2	2'-0"	4'-10"	6'-10"	18" cc	BENT		
									K5	6	2	2'-0"	5'-4"	7'-4"	18" cc	BENT		
									K6	7	2	2'-0"	5'-10"	7'-10"	18" cc	BENT		
									K7	7	2	2'-0"	6'-4"	8'-4"	18" cc	BENT		
									K8	8	2	2'-0"	6'-10"	8'-10"	18" cc	BENT		
									K9	8	2	2'-0"	7'-4"	9'-4"	18" cc	BENT		
									K10	9	2	2'-0"	7'-10"	9'-10"	18" cc	BENT		
									PI	5	2	2'-0"	5'-8"	7'-8"	18" cc	BENT		
									THRU 6" INCREMENTS									
									PII	5	2	2'-0"	10'-8"	12'-8"	18" cc	BENT		
									JI	5	4			1'-4"	18" cc	STR.		
									J2	5	4			2'-9"	18" cc	STR.		
									J3	5	4			4'-1"	18" cc	STR.		
120"	2:1	12'-0"	5'-6"	11'-5"	12'-8"	37'-4"	17'-5"	14"	DI	4	21			5'-1"	18" cc	BENT	31.78	2492
									D2	4	4			4'-4"	18" cc	BENT		
									EI	5	2			36'-10"	18" cc	STR.		
									E2	5	1			35'-0"	18" cc	STR.		
									E3	5	1			32'-0"	18" cc	STR.		
									E4	5	1			29'-0"	18" cc	STR.		
									E5	5	1			26'-0"	18" cc	STR.		
									E6	5	1			23'-0"	18" cc	STR.		
									F	5	2			14'-7"	5" cc	STR.		
									G	5	4	12'-3"	19'-2"	50'-7"		BENT		
									H	5	22			16'-9"	18" cc	STR.		
									VI	5	2	2'-0"	6'-4"	8'-4"	18" cc	BENT		
									V2	5	2	2'-0"	6'-10"	8'-10"	18" cc	BENT		
									V3	6	2	2'-0"	7'-4"	9'-4"	18" cc	BENT		
									V4	6	2	2'-0"	7'-10"	9'-10"	18" cc	BENT		
									V5	7	2	2'-0"	8'-5"	10'-5"	18" cc	BENT		
									V6	7	2	2'-0"	8'-11"	10'-11"	18" cc	BENT		
									V7	8	2	2'-0"	9'-5"	11'-5"	18" cc	BENT		
									V8	8	2	2'-0"	9'-11"	11'-11"	18" cc	BENT		
									V9	9	2	2'-0"	10'-6"	12'-6"	18" cc	BENT		
									V10	9	2	2'-0"	11'-0"	13'-0"	18" cc	BENT		
									VII	10	2	2'-0"	11'-6"	13'-6"	18" cc	BENT		
									V12	10	2	2'-0"	12'-0"	14'-0"	18" cc	BENT		
									KI	5	2	2'-0"	3'-9"	5'-9"	18" cc	BENT		
									K2	5	2	2'-0"	4'-3"	6'-3"	18" cc	BENT		
									K3	6	2	2'-0"	4'-9"	6'-9"	18" cc	BENT		
									K4	6	2	2'-0"	5'-3"	7'-3"	18" cc	BENT		
									K5	7	2	2'-0"	5'-9"	7'-9"	18" cc	BENT		

I.D. PIPE	FILL SLOPE	DIMENSIONS L	M	N	O	P	Q	T	REINFORCEMENT MK	SIZE	NO.	a	b	TOTAL	QUANTITY SPAC.	TYPE	CONC. (MD)	STEEL (kg)
120"									K6	7	2	2'-0"	6'-3"	8'-3"	18" cc	BENT		
									K7	8	2	2'-0"	6'-9"	8'-9"	18" cc	BENT		
									K8	8	2	2'-0"	7'-3"	9'-3"	18" cc	BENT		
									K9	9	2	2'-0"	7'-9"	9'-9"	18" cc	BENT		
									K10	9	2	2'-0"	8'-3"	10'-3"	18" cc	BENT		
									KII	10	2	2'-0"	8'-9"	10'-9"	18" cc	BENT		
									H2	4	8			10'-0"		STR.		
									PI	5	2	2'-0"	6'-4"	8'-4"	18" cc	BENT		
									THRU 6" INCREMENTS									
									P12	5	2	2'-0"	11'-10"	13'-10"	18" cc	BENT		
									JI	5	4			1'-6"	18" cc	STR.		
									J2	5	4			3'-0"	18" cc	STR.		
									J3	5	4			4'-6"	18" cc	STR.		
144"	2:1	14'-4"	6'-6"	13'-6"	14'-10"	44'-3"	20'-9"	16"	DI	4	26			5'-1"	18" cc	BENT	49.71	3958
									D2	4	4			4-4"	18" cc	BENT		
									EI	5	2			43'-9"	18" cc	STR.		
									E2	5	1			41'-11"	18" cc	STR.		
									E3	5	1			38'-11"	18" cc	STR.		
									E4	5	1			36'-11"	18" cc	STR.		
									E5	5	1			33'-11"	18" cc	STR.		
									E6	5	1			30'-1"	18" cc	STR.		
									E7	5	1			27'-1"	18" cc	STR.		
									F	5	2			16'-9"	5" cc	STR.		
									G	5	4	14'-5"	22'-11"	60'-3"		BENT		
									H	5	26			20'-1"		STR.		
									H2	4	8			13'-6"		STR.		
									VI	6	2	2'-0"	7'-6"	9'-6"	18" cc	BENT		
									V2	6	2	2'-0"	8'-0"	10'-0"	18" cc	BENT		
									V3	6	2	2'-0"	8'-6"	10'-6"	18" cc	BENT		
									V4	7	2	2'-0"	9'-0"	11'-0"	18" cc	BENT		
									V5	7	2	2'-0"	9'-6"	11'-6"	18" cc	BENT		
									V6	8	2	2'-0"	10'-0"	12'-0"	18" cc	BENT		
									V7	8	2	2'-0"	10'-6"	12'-6"	18" cc	BENT		
									V8	9	2	2'-0"	11'-0"	13'-0"	18" cc	BENT		
									V9	9	2	2'-0"	11'-6"	13'-6"	18" cc	BENT		
									V10	10	2	2'-0"	12'-0"	14'-0"	18" cc	BENT		
									VII	10	2	2'-0"	12'-6"	14'-6"	18" cc	BENT		
									V12	11	2	2'-0"	13'-0"	15'-0"	18" cc	BENT		
									V13	11	2	2'-0"	13'-6"	15'-6"	18" cc	BENT		
									V14	11	2	2'-0"	14'-0"	16'-0"	18" cc	BENT		
									KI	6	2	2'-0"	4'-5"	6'-5"	18" cc	BENT		
									K2	6	2	2'-0"	4'-11"	6'-11"	18" cc	BENT		
									K3	7	2	2'-0"	5'-5"	7'-5"	18" cc	BENT		
									K4	7	2	2'-0"	5'-11"	7'-11"	18" cc	BENT		
									K5	7	2	2'-0"	6'-5"	8'-5"	18" cc	BENT		
									K6	8	2	2'-0"	6'-11"	8'-11"	18" cc	BENT		
									K7	8	2	2'-0"	7'-5"	9'-5"	18" cc	BENT		
									K8	9	2	2'-0"	7'-11"	9'-11"	18" cc	BENT		
									K9	9	2	2'-0"	8'-5"	10'-5"	18" cc	BENT		
									K10	10	2	2'-0"	8'-11"	10'-11"	18" cc	BENT		
									KII	10	2	2'-0"	9'-5"	11'-5"	18" cc	BENT		
									K12	11	2	2'-0"	9'-11"	11'-11"	18" cc	BENT		
									K13	11	2	2'-0"	10'-5"	12'-5"	18" cc	BENT		
									K14	11	2	2'-0"	10'-5"	12'-11"	18" cc	BENT		
									PI	5	2	2'-0"	10'-11"	9'-6"	18" cc	BENT		
									THRU 6" INCREMENTS									
									P14	5	2	2'-0"	14'-0"	16'-0"	18" cc	BENT		
									JI	5	4			1'-5"	18" cc	STR.		
									J2	5	4			2'-10"	18" cc	STR.		
									J3	5	4			4'-3"	18" cc	STR.		
									J4	5	4			5'-9"	18" cc	STR.		

DETAIL XX
CONCRETE WINGWALL
(Sheet 4 of 4)

NO SCALE