

DRAINAGE QUANTITIES

UNDERDRAIN QUANTITIES

LOCATION	SIDE	STATION		LENGTH	605		603	SPECIAL	OUTLET TO MH, CB, ETC.	NOTES	CONNECTION DETAIL SEE SHEET No. 83
					SHALLOW UNDERDRAIN, AS PER PLAN	6" SHALLOW PIPE UNDER- DRAIN, 707.15, AS PER PLAN	6" CONDUIT, TYPE F*	PRECAST CONCRETE OUTLET			
		LF	LF		LF	EACH					
90 EB	▲	MEDIAN	271+70	272+78	108				YES		C
	▲		276+36	279+60	324				YES		
	▲		279+60	286+50	690				YES		
	▲		286+50	293+80	730				YES		
	▲		296+92	304+30	738						C
	▲		304+30	312+10	780				YES		C
	▲		312+10	320+10	800				YES		C
	▲		320+10	322+71	261				YES		C
90 WB	●	OUTSIDE	272+87	273+92	105	105					B
	●		277+34	279+60	226	224					B
	●		279+60	286+50	690	688					B
	●		286+50	292+90	640	640					B
	●		296+03	308+41	1238	1238					B
	▲	MEDIAN	272+77	273+80	103				YES		C
	▲		277+20	287+00	980				YES		C
	▲		287+00	293+05	605				YES		C
	▲		296+78	304+30	752				YES		C
	▲		304+30	312+00	770				YES		C
	▲		312+00	320+10	810				YES		C
	▲		320+10	322+71	261				YES		C
90 EB	●	OUTSIDE	10+00	26+25	1625	1625					A
	●		26+30	34+30	800	800					A
	●	MEDIAN	11+00	26+75	1675		1573		YES		C
	●		26+75	31+50	475	475					B
	●		31+50	35+79	429	429					B
90 WB	●	OUTSIDE	10+00	14+39	439	439			YES		A
	●	MEDIAN	11+00	28+14	1714		1714		YES		C
RAMP A	●	RT	6+25	11+38	513	513				CONTINUE	
	●	RT	11+40	17+75	635	635					A
	●	RT	17+75	26+25	850	850					A
RAMP B	●	LT	5+79	8+15	236	236				CONTINUE	
	●	LT	15+60	21+35	575	575					A
	●	RT	21+50	22+70	120	120					A
	●	RT	22+70	26+65	395	395					A
RAMP C	●	RT	8+14	11+60	346		346				C
	●	RT	11+60	19+62	788	788					A
	●	RT	26+07	32+50	643	643					A
	●	RT	34+62	36+50	188	188					A
	●	LT	36+60	40+13	353	353					A
	●	LT	40+13	42+28	215	215					A
RAMP D	●	LT	4+39	18+14	1375	1375				CONTINUE	
	●	LT	18+14	23+00	486	486					A
	●	LT	23+00	31+12	812	812					A
	●	LT	31+12	37+95	683	681					A
RAMP E	●	LT	4+64	8+25	361						A
	●	LT	8+25	15+70	745	745					A
	●	RT	10+40	14+84	444	444					A
	●	RT	15+90	20+53	463	463					A
RAMP F	●	LT	5+00	19+75	1475	1475			YES		A
	●	LT	19+80	22+17	237	237				CONTINUE	
RAMP G-H	●	LT	5+60	10+25	465	465					A
	●	LT	10+25	13+70	345	343					CONTINUE
RAMP G	●	LT	3+70	10+13	643	643					A
	●	LT	10+13	11+44	131	131					A
RAMP H	●	RT	15+00	22+25	725	725			YES		C
	●	RT	22+25	23+77	152	150				CONTINUE	
TOTALS THIS SHEET					COST PARTICIPATION I I ●	21,349	3,633	257	6		
					COST PARTICIPATION I I I ▲	-	8,706	640	-		
TOTALS PREV. SHEET					COST PARTICIPATION I I ●	36,919	13,399	1,245	11		
					COST PARTICIPATION I I I ▲	-	25,474	1,727	3		
TOTALS TO GEN. SUMM.					COST PARTICIPATION I I ●	58,268	17,032	1,502	17		
					COST PARTICIPATION I I I ▲	-	34,180	2,367	3		

FOR INFORMATION PURPOSES

THE FOLLOWING ESTIMATED QUANTITIES OF CONNECTION AND OUTLET FITTINGS ARE REQUIRED FOR THE UNDERDRAINS. THE COST OF ALL FITTINGS AND PIPE CONNECTIONS ARE TO BE INCLUDED IN THE UNIT PRICE FOR ITEM 605 - SHALLOW UNDERDRAIN, AS PER PLAN, OR 6" SHALLOW PIPE UNDERDRAIN.

FITTINGS	TYPE 'A'	TYPE 'B'	TYPE 'C'	ESTIMATED TOTAL
4" - 90° BEND	160	20		180
4"X6" INCREASER	80	10		90
6"X6"X6" WYE	35	20		55
6"X6"X6" TEE	26	14		40
6" - 60° BEND	15		16	27
6" - 90° BEND	15		8	18
8"X8"X6" TEE			10	8
8"X8"X6" WYE			10	8
6"X6"X6"X6" DBL TEE			2	2
6" - 45° BEND			16	16
6"x8" INCREASER	5	10	10	25

* 707.17 NON-PERFORATED, ASTM 3034 SDR 35 OR SS 431 OR SS 944

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