

Avenue 50 Proposed Infiltration Trench Summary

ID	Street Station	Half Street Width (ft)	Roadway Drainage Length (ft)	Sub-drainage Area (acre)	100-Y Peak Q (cfs)	100-Y 24-H Storm Volume (cf)	HDPE Estimated Length (ft)	24-H Infiltration Volume * (cf)	Design Storage Volume (cf)	Req'd 60" HDPE Storage (lf)	60" HDPE Proposed (lf)	Remarks
1	Jefferson to Madison (N)	50	5280	6.1	7.9	80000	1,600	30720	49280	1590	1600	South side is in La Quinta
2	Madison to Monroe (N)	50	5280	6.1	7.9	80000	1,600	30720	49280	1590	1600	
3	Madison to Monroe (S)	50	4950	5.7	7.4	75000	1,500	28800	46200	1490	1500	330' drains south to Madison
4	Monroe to Jackson (N)	50	0	0.0	0.0	0	0	0	0	0	0	Fully developed with C&G, CB
5	Monroe to Jackson (S)	50	3280	3.8	4.9	49700	1,000	19200	30500	984	1000	2000' developed with C&G, CB for street fl
6	Jackson to City limit (N)	50	1300	1.5	1.9	19700	400	7680	12020	388	400	
7	Jackson to City limit (S)	50	1300	1.5	1.9	19700	400	7680	12020	388	400	
Ave. 50 Total			21,390	24.6	32	324,100	6,500	124,800	199,300	6,429	6,500	

*24-Hour Infiltration Volume = Estimated HDPE Length (80% Trench Width) [(Infiltration Rate 1.5 inches/Hour) /12] (24 Hour)

Average Street 100-year Q=1.3*(Area in AC)

Average Storm 100-year 24-Hour Volume =13200*(Area in AC)

AVENUE 50 MDP IMPROVEMENT
PRELIMINARY DRAINAGE IMPROVEMENT COSTS

NO.	ITEM	UNIT	ESTIMATED QUANTITY	UNIT PRICE	AMOUNT
1	CONSTRUCT CATCH BASIN PER CITY OF INDIO STD. PLAN NO. 300 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL) AND LOCAL DEPRESSION STD. NO. 303	LF	105	\$560	\$58,800
2	INSTALL 18" HDPE STORM DRAIN PIPE	LF	300	\$177	\$53,100
3	INSTALL 24" HDPE STORM DRAIN PIPE	LF	50	\$202	\$10,100
4	INSTALL 60" PERFORATED (BOTTOM) HDPE STORM DRAIN PIPE PER TRENCH INSTALLATION DETAIL	LF	6500	\$240	\$1,560,000
5	INSTALL MANHOLE PER ADS 60" HDPE MANHOLE WITH 30" SOLID COVER	EA	18	\$9,000	\$162,000
6	CONSTRUCT DRAINAGE INLET PER CALTRANS STD. PLAN RSP D73D, TYPE GT3 WITH ADS FLEX STORM PURE INLET FILTER (OR EQUAL)	EA	4	\$10,000	\$40,000
7	RELOCATION OF EXISTING WATER, WATER LATERAL, SEWER LATERAL, AND MISC. ITEMS	LS	1	\$50,000	\$50,000
8	MAXWELL PLUS DRAINAGE SYSTEM (40' DEEP)	EA	6	\$40,000	\$240,000
IMPROVEMENTS COST SUBTOTAL				\$	2,174,000.00