

APPENDIX 2.5 –

Manhole – Storm Drain and Street Ponding Tables

Table MHE – Existing Conditions – SWMM Manhole and Storm Drain Data (A)

Table MHC – Existing Conditions – Manhole Headloss Coefficients (A)

STREET PONDING COMPUTATIONS AND FIGURES

Table SP - Street Ponding Surface Area

Figure SP - Street Width Adjustment Sketch

Figures of Partial Steep Slope Basins -

Basins that contain mild sloped streets that could have ponding as follows:

Basin BR3
Basin BR9
Basin BR13
Basin BR17
Basin BR19
Basin B19 .1
Basin B19.2

(A) Volume 4 Appendix 2.8 contains :

Hand Annotated Copies of :

1. Hand Drawings of Manholes and Associated Storm Drain Pipes that were field Measured (not surveyed) by NM Underground, Inc. and those drawings are hand annotated with actual surveyed elevations (1988 Vertical Datum) as surveyed by Survey Control Inc.
2. As-built Drawings of the manholes and storm drains systems as provided by the City of Albuquerque (these are the best as-built drawings available). Conversion of a few manholes from the 1929 vertical datum to the 1988 vertical datum was required and are documented as such.

TABLE MHE																								
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COA Mid Valley Drainage Management Plan																								
STORM DRAIN - MANHOLE INFORMATION							STORM DRAIN - PIPE INFORMATION																	
COA MH NAME	Page #	Location Description	Inflows (External Direct)	Invert Elev.	Max. Depth-Ground Surface - Invert	Rim Elev.	SWMM Pipe ID	Inlet Node	Outlet Node	Shape of the Pipe	Max. Depth of the Pipe	Length of the Pipe	Slope	Pipe Material	Pipe Roughness	Inlet Pipe Depth	Inlet Offset (Inlet Elev.)	Outlet Pipe Depth	Outlet Offset (Outlet Elevation)	Max.Flow	Entry Loss Coeff.	Exit Loss Coeff.	Ave. Loss Coeff.	Flap Gate
			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
																	(d)		(e)	(h)	(f)	(f)	(f)	
7TH STREET / I-40																								
6149	1	7th / McKnight	No	4956.51	6.87	4963.38	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6231	3	7th / Haines	No	4955.06	7.35	4962.41	57	6149	6231	42	3.5	733	0.00138	RCP	0.014	6.87	4956.51	6.91	4955.50	11.00	0.35	0.30	3.10	N
6259	5	7th / Haines	No	4953.72	10.36	4964.08	58	6231	6259	48	4	298	0.00235	RCP	0.014	7.35	4955.06	9.72	4954.36	40.00	0.30	0.25	0.50	N
7638	7	7th / Bellamah	No	4952.62	8.10	4960.72	59	6259	7638	54	4.5	930	0.00118	RCP	0.014	10.36	4953.72	8.10	4952.62	40.00	0.25	0.40	2.20	N
25807	9	8th / Bellamah	No	4953.18	7.28	4960.46	60	7638	25807	54	4.5	310	-0.00181	RCP	0.014	8.10	4952.62	7.28	4953.18	70.00	0.40	0.30	0.60	N
25349	11	8th / Slate	No	4945.26	11.07	4956.33	61	25807	25349	66	5.5	2789	0.00284	RCP	0.014	7.28	4953.18	11.07	4945.26	90.00	0.30	0.30	3.90	N
25352	13	8th / Slate	No	4945.06	11.31	4956.37	62	25349	25352	66	5.5	60	0.00333	RCP	0.014	11.07	4945.26	11.31	4945.06	389.00	0.30	0.40	0.00	N
7815	15	8th / Lomas	No	4943.48	13.40	4956.88	63	25352	7815	66	5.5	305	0.00364	RCP	0.014	11.31	4945.06	12.93	4943.95	215.00	0.40	0.50	0.50	N
25253	17	8th / Tijeras	No	4941.66	12.95	4954.61	64	7815	25253	72	6	1481	0.00123	RCP	0.014	13.4	4943.48	12.95	4941.66	197.00	0.50	0.30	3.10	N
7977	19	8th / Tijeras	No	4941.94	13.08	4955.02	65	25253	7977	72	6	20	-0.014	RCP	0.014	12.95	4941.66	13.08	4941.94	193.00	0.30	0.35	0.00	N
25238	21	8th / Tijeras	No	4941.20	13.47	4954.67	66	7977	25238	72	6	137	0.00372	RCP	0.014	13.08	4941.94	13.24	4941.43	184.00	0.35	0.40	0.00	N
25240	23.1	8th / Tijeras	No	4941.15	13.87	4955.02	67	25238	25240	72	6	23	0.00217	RCP	0.014	13.47	4941.20	13.87	4941.15	184.00	0.40	0.50	0.00	N
22584	24	8th / Copper	No	4940.18	14.49	4954.67	68	25240	22584	72	6	490	0.00198	RCP	0.014	13.87	4941.15	14.49	4940.18	188.00	0.50	0.35	0.50	N
9260	26	8th / Gold	No	4938.02	14.78	4952.80	69	22584	9260	72	6	560	0.00227	RCP	0.014	14.49	4940.18	13.89	4938.91	178.00	0.35	0.25	1.50	N
13866	28	8th / Iron	No	4935.36	12.08	4947.44	70	9260	13866	84	7	1622	0.00118	RCP	0.014	14.78	4938.02	11.33	4936.11	202.00	0.25	0.50	3.20	N
7963.T	--	Tingley Pond	No	4932.21	9.25	4941.46	71	13866	7963.T	96	8	1026	0.00307	RCP	0.014	12.08	4935.36	9.25	4932.21	353.00	0.50	0.35	3.20	N
32981	30	8th / Atlantic	No	4931.39	17.86	4949.25	71A	7963.T	32981	96	8	149	0.0055	RCP	0.014	9.25	4932.21	17.86	4931.39	227.00	0.35	0.25	0.00	N
9121	--	8th / Atlantic	No	4931.16	17.50	4948.66	72	32981	9121	96	8	80	0.00288	RCP	0.014	17.86	4931.39	17.50	4931.16	227.00	0.25	0.25	0.00	N
9129	31	9th / El Bordo	No	4930.24	16.01	4946.25	73	9121	9129	96	8	327	0.00281	CMP	0.024	17.5	4931.16	16.01	4930.24	227.00	0.25	0.25	0.00	N
MHB22410	33.1	10th / El Bordo	No	4920.12	25.80	4945.92	74	9129	MHB22410	72	8	501	0.0202	CMP	0.024	16.01	4930.24	25.80	4920.12	227.00	0.50	0.25	0.00	N
22410	33	10th / El Bordo	No	4919.99	25.80	4945.79	74A	MHB22410	22410	96	8	19	0.00684	CMP	0.024	25.8	4920.12	25.80	4919.99	231.00	0.25	0.40	0.00	N
9141	35	10th / Pacific	No	4928.21	17.88	4946.09	75	22410	9141	96	8	196	-0.04194	CMP	0.024	25.80	4919.99	17.88	4928.21	229.00	0.40	0.40	0.00	N

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COA MH NAME	Page #	Location Description	Inflows (External Direct)	Invert Elev.	Max. Depth-Ground Surface - Invert	Rim Elev.	SWMM Pipe ID	Inlet Node	Outlet Node	Shape of the Pipe	Max. Depth of the Pipe	Length of the Pipe	Slope	Pipe Material	Pipe Roughness	Inlet Pipe Depth	Inlet Offset (Inlet Elev.)	Outlet Pipe Depth	Outlet Offset (Outlet Elevation)	Max.Flow	Entry Loss Coeff.	Exit Loss Coeff.	Ave. Loss Coeff.	Flap Gate
			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
																	(d)		(e)	(h)	(f)	(f)	(f)	
4TH STREET / I-40																								
6045	37	4th / Cutler	No	4957.51	7.82	4965.33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15184	39	4th / I40	No	4954.19	10.04	4964.23	35	6045	15184	36	3	802	0.00392	RCP	0.014	7.82	4957.51	9.86	4954.37	36.00	0.35	0.35	2.00	N
6218	41	4th / McKnight	No	4953.66	9.34	4963.00	34	15184	6218	36	3	622	9.6E-05	RCP	0.014	10.04	4954.19	8.87	4954.13	51.00	0.35	0.40	1.00	N
19719	43	3rd / McKnight	No	4952.30	9.98	4962.28	33	6218	19719	36	3	369	0.00146	RCP	0.014	9.34	4953.66	9.16	4953.12	58.00	0.40	0.40	0.50	N
7654	45	3rd / Constitution	No	4951.67	8.59	4960.26	32	19719	7654	48	4	1795	0.00071	RCP	0.014	9.33	4952.95	8.59	4951.67	75.00	0.40	0.25	3.00	N
7714	47	3rd / Mountain	No	4950.14	7.86	4958.00	31	7654	7714	48	4	1457	0.00103	RCP	0.014	8.59	4951.67	7.83	4950.17	60.00	0.25	0.25	1.50	N
7740	49	3rd / Granite	No	4949.69	8.25	4957.94	30	7714	7740	48	4	405	0.00111	RCP	0.014	7.86	4950.14	8.25	4949.69	91.00	0.25	0.50	3.00	N
7830	51	3rd / Lomas	No	4944.87	12.00	4956.87	29	7740	7830	54	4.5	1028	0.00157	RCP	0.014	8.25	4949.69	8.79	4948.08	86.00	0.50	0.50	5.90	N
7816	53	6th / Lomas	No	4944.19	13.17	4957.36	55	7830	7816	72	6	1092	0.00078	RCP	0.014	11.83	4945.04	13.17	4944.19	136.00	0.50	0.35	1.70	N
7815	55	8th / Lomas	No	4943.48	13.40	4956.88	56	7816	7815	72	6	739	0.00083	RCP	0.014	13.17	4944.19	13.30	4943.58	164.00	0.35	0.50	1.90	N
7830	57	3rd / Lomas	No	4944.87	12.00	4956.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7865	58	3rd / Fruit	No	4946.34	10.46	4956.80	28	7830	7865	54	4.5	391	0.00161	RCP	0.014	8.92	4947.95	9.48	4947.32	91.00	0.50	0.50	1.10	N
7908	60	3rd / Roma	No	4946.15	10.00	4956.15	27	7865	7908	60	5	355	0.00054	RCP	0.014	10.46	4946.34	10.00	4946.15	136.00	0.50	0.50	1.00	N
7912	62	3rd / Roma	No	4945.61	10.68	4956.29	26	7908	7912	60	5	13	-0.05231	RCP	0.014	10.00	4946.15	9.46	4946.83	162.00	0.50	0.25	0.00	N
7955	64	3rd / Marquette	No	4943.49	12.00	4955.49	25	7912	7955	60	5	360	0.00108	RCP	0.014	10.68	4945.61	10.27	4945.22	104.00	0.25	0.50	0.80	N
22517	66	3rd / Copper	No	4943.59	11.00	4954.59	24	7955	22517	66	5.5	968	0.00133	RCP	0.014	10.61	4944.88	11.00	4943.59	99.00	0.50	0.35	1.50	N
9152	map pocket	Urban Pump Sta.	No	4929.67	27.00	4956.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9229	map pocket	Urban Pump Sta.	No	4913.15	27.00	4940.15	200	9152	9229	72	6	1665	0.00992	RCP	0.014	27.00	4929.67	27.00	4913.15	47.00	0.30	0.50	0.00	N
32823	map pocket	Urban Pump Sta.	No	4933.09	27.00	4960.09	201	9229	32823	18	2	230	-0.0867	RCP	0.014	27.00	4913.15	27.00	4933.09	13.00	0.50	0.40	0.00	N
UPSINLET	map pocket	Urban Pump Sta.	No	4930.49	28.66	4959.15	203	32823	UPS	42	3.5	103	0.02427	RCP	0.014	27.00	4933.09	28.56	4930.59	9.00	0.40	0.25	0.00	N

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			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
																	(d)		(e)	(h)	(f)	(f)	(f)	
32823	map pocket	Urban Pump Sta.	No	4933.09	27.00	4960.09																		
MHB19A	map pocket	Urban Pump Sta.	No	4933.00	27.00	4960.00	202	32823	MHB19A	78	6.5	426	0.00021	RCP	0.014	27	4933.09	27.00	4933.00	4.00	0.40	0.25	0.00	N
9248	68	1st / Copper	No	4947.65	10.07	4957.72	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22517	70	3rd / Copper	No	4943.59	11.00	4954.59	23	9248	22517	48	4	821	0.00459	RCP	0.014	10.07	4947.65	10.71	4943.88	48.00	0.40	0.35	3.50	N
9310	71	3rd / Silver	No	4942.40	11.55	4953.95	22	22517	9310	66	5.5	1089	0.00109	RCP	0.014	11.00	4943.59	11.55	4942.40	135.00	0.35	0.50	4.50	N
9348	73	3rd / Iron	No	4939.63	11.79	4951.42	21	9310	9348	66	5.5	1101	0.00252	RCP	0.014	11.55	4942.40	11.79	4939.63	117.00	0.50	0.40	4.20	N
9344	75	4th / Iron	No	4935.83	15.71	4951.54	20	9348	9344	72	6	373	0.00129	RCP	0.014	11.75	4939.67	12.35	4939.19	164.00	0.40	0.40	0.50	N
9340	77	5th / Iron	No	4935.64	16.65	4952.29	19	9344	9340	72	6	375	0.00149	RCP	0.014	12.67	4938.87	13.98	4938.31	187.00	0.40	0.40	0.70	N
22250	79	6th / Iron	No	4937.56	13.58	4951.14	18	9340	22250	72	6	346	0.00153	RCP	0.014	14.20	4938.09	13.58	4937.56	190.00	0.40	0.50	0.00	N
22429	81	7th / Iron	No	4937.26	13.07	4950.33	17	22250	22429	72	6	366	0.00082	RCP	0.014	13.58	4937.56	13.07	4937.26	173.00	0.50	0.35	0.50	N
13866	83	8th / Iron	No	4935.36	12.08	4947.44	16	22429	13866	72	6	361	0.00471	RCP	0.014	13.07	4937.26	11.88	4935.56	200.00	0.35	0.50	0.00	N
COMMERCIAL / INDIAN SCHOOL																								
6195	84	Commercial / Indian School	No	4962.97	6.74	4969.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6246	86	Commercial / McKnight	No	4962.06	7.85	4969.91	36	6195	6246	36	3	636	0.00143	RCP	0.014	6.74	4962.97	7.85	4962.06	44.00	0.40	0.40	1.50	N
29163	88	Commercial / McKnight	No	4962.01	8.38	4970.39	37	6246	29163	36	3	120	0.00292	RCP	0.014	7.55	4962.36	8.38	4962.01	73.00	0.40	0.40	0.00	N
7635	90	Commercial / Aspen	No	4957.34	7.29	4964.63	38	29163	7635	36	3	855	0.00566	RCP	0.014	8.21	4962.18	7.29	4957.34	34.00	0.40	0.25	2.00	N
7650	92	Commercial / Baca	No	4954.93	8.35	4963.28	39	7635	7650	36	3	613	0.00393	RCP	0.014	7.29	4957.34	8.35	4954.93	49.00	0.25	0.40	1.50	N
7656	94	Broadway / Odelia	No	4953.17	9.45	4962.62	40	7650	7656	36	3	386	0.00404	RCP	0.014	8.35	4954.93	9.25	4953.37	47.00	0.40	0.50	0.50	N
33007	96	High / Odelia	No	4994.87	10.60	5005.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33027	98	Broadway / Odelia	BR8-H2	4957.15	8.20	4965.35	42	33007	33027	48	4	1096	0.03422	RCP	0.014	10.60	4994.87	7.98	4957.37	42.00	0.25	0.25	2.50	N
7656	100	Broadway / Odelia	No	4953.17	9.45	4962.62	41	33027	7656	24	2	416	0.00743	RCP	0.014	8.20	4957.15	8.56	4954.06	18.00	0.25	0.50	0.00	N
7963.05A	101	Mountain / Edith	BR8-H1 + BR7-H2	4971.98	7.11	4979.09	125	7963.05A	7963.05M	60	5.0	1793	0.01076	RCP	0.014	7.11	4971.98	10.31	4952.69	48.00	0.35	0.25	6.70	N

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			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
																	(d)		(e)	(h)	(f)	(i)	(j)	
29132	102	Broadway / McKnight	No	4960.03	14.23	4974.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7628	104	Broadway / Hannett	No	4960.44	11.03	4971.47	43	29132	7628	36	3	638	-0.00066	RCP	0.014	14.23	4960.03	11.02	4960.45	73.00	0.25	0.25	0.50	N
7656	106	Broadway / Odelia	No	4953.17	9.45	4962.62	44	7628	7656	36	3	831	0.00762	RCP	0.014	11.03	4960.44	8.51	4954.11	58.00	0.25	0.50	2.00	N
7963.11A	107	Broadway / Air Quality Pond	No	4951.67	9.48	4961.15	45	7656	7963.11A	48	4	319	0.0047	RCP	0.014	9.45	4953.17	9.48	4951.67	136.00	0.50	0.35	0.00	N
7717	108	Broadway / Rosemont	No	4949.54	9.19	4958.73	45A	7963.11A	7717	48	4	1213	0.00184	RCP	0.014	9.26	4951.89	9.07	4949.66	76.00	0.35	0.40	3.20	N
7716	109	Broadway / Rosemont	No	4948.88	9.23	4958.11	46	7717	7716	36	3	11	0.04364	RCP	0.014	9.19	4949.54	9.05	4949.06	94.00	0.40	0.40	0.00	N
7766JB	111	Broadway / Maggie	No	4943.95	12.33	4956.28	47	7716	7766JB	48	4	725	0.00582	RCP	0.014	9.23	4948.88	11.62	4944.66	73.00	0.40	0.45	3.00	N
7769JB	113	Broadway / Maggie	No	4944.52	11.81	4956.33	48	7766JB	7769JB	48	4	78	-0.00603	RCP	0.014	11.76	4944.52	11.34	4944.99	56.00	0.45	0.50	0.00	N
32865	114	Broadway / Marble	No	4945.49	11.62	4957.11	49	7769JB	32865	42	3.5	307	-0.00322	RCP	0.014	11.81	4944.52	11.60	4945.51	56.00	0.50	0.40	0.80	N
32878.B	117	Lomas/Broadway Pond	No	4946.27	9.58	4955.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7769JB	116	Broadway / Maggie	No	4944.52	11.81	4956.33	134	32878.B	7769JB	54	4.5	595	0.00294	RCP	0.014	9.58	4946.27	11.81	4944.52	88.00	0.40	0.50	0.00	N
32878	117.2	Broadway / Lomas	No	4946.60	9.16	4955.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
32878.A	117	Lomas/Broadway Pond	No	4947.19	8.39	4955.58	132	32878	32878.A	54	4.5	60	-0.00983	RCP	0.014	9.16	4946.60	8.39	4947.19	170.00	0.35	0.40	0.00	N
EDITH / LOMAS																								
29178	118	Edith / Fruit	No	4956.78	9.45	4966.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
7870	120	Edith / Lomas	BR7-H1	4957.75	12.84	4970.59	50	29178	7870	36	3	441	-0.00102	RCP	0.014	5.18	4961.05	9.09	4961.50	71.00	0.50	0.50	1.10	N
7861	122	Arno / Lomas	No	4947.76	10.18	4957.94	51	7870	7861	48	4	517	0.0189	RCP	0.014	12.84	4957.75	9.96	4947.98	213.00	0.50	0.40	1.00	N
32878	124	Broadway / Lomas	No	4946.60	9.16	4955.76	52	7861	32878	54	4.5	350	0.00274	RCP	0.014	10.18	4947.76	8.96	4946.80	213.00	0.40	0.30	2.70	N
7848	126	Broadway / Lomas	No	4947.67	8.71	4956.38	53	32878	7848	72	6	308	-0.00104	RCP	0.014	8.41	4947.35	8.71	4947.67	83.00	0.30	0.40	0.50	N
7830	128	3rd / Lomas	No	4944.87	12.00	4956.87	54	7848	7830	72	6	1435	0.00195	RCP	0.014	8.71	4947.67	12.00	4944.87	105.00	0.40	0.50	2.30	N
14TH STREET / MOUNTAIN																								

TABLE MHE																								
Existing Conditions - SWMM Manhole and Storm Drain Data																								
COA Mid Valley Drainage Management Plan																								
STORM DRAIN - MANHOLE INFORMATION							STORM DRAIN - PIPE INFORMATION																	
COA MH NAME	Page #	Location Description	Inflows (External Direct)	Invert Elev.	Max. Depth-Ground Surface - Invert	Rim Elev.	SWMM Pipe ID	Inlet Node	Outlet Node	Shape of the Pipe	Max. Depth of the Pipe	Length of the Pipe	Slope	Pipe Material	Pipe Roughness	Inlet Pipe Depth	Inlet Offset (Inlet Elev.)	Outlet Pipe Depth	Outlet Offset (Outlet Elevation)	Max.Flow	Entry Loss Coeff.	Exit Loss Coeff.	Ave. Loss Coeff.	Flap Gate
			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
																	(d)		(e)	(h)	(f)	(f)	(f)	
25656	129	14th / Mountain	No	4948.86	10.32	4959.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25677	131	12th / Mountain	No	4948.59	10.97	4959.56	91	25656	25677	36	3	670	0.0004	RCP	0.014	10.32	4948.86	10.97	4948.59	53.00	0.25	0.40	2.00	N
25622	133	12th / Orchard	No	4948.24	9.58	4957.82	92	25677	25622	36	3	914	0.00031	RCP	0.014	10.90	4948.66	9.44	4948.38	43.00	0.40	0.50	2.00	N
25105	135	12th / Fruit	No	4946.31	10.20	4956.51	93	25622	25105	36	3	752	0.00235	RCP	0.014	9.58	4948.24	10.04	4946.47	47.00	0.50	0.40	1.50	N
25109	137	12th / Fruit	No	4945.87	10.67	4956.54	94	25105	25109	48	4	280	0.00157	RCP	0.014	10.20	4946.31	10.67	4945.87	99.00	0.40	0.25	1.00	N
25117	139	14th / Fruit	No	4945.26	11.29	4956.55	95	25109	25117	48	4	389	0.00152	RCP	0.014	10.67	4945.87	11.27	4945.28	71.00	0.25	0.40	1.20	N
25048	141	14th / Roma	No	4944.92	11.36	4956.28	96	25117	25048	48	4	342	0.00085	RCP	0.014	11.29	4945.26	11.31	4944.97	80.00	0.40	0.35	1.00	N
25034	143	14th / Central	No	4943.82	10.70	4954.52	97	25048	25034	60	5	747	0.00147	RCP	0.014	11.36	4944.92	10.70	4943.82	96.00	0.35	0.25	2.30	N
9045	145	14th / Lead	No	4941.61	8.65	4950.26	98	25034	9045	60	5	1976	0.00109	RCP	0.014	10.70	4943.82	8.59	4941.67	96.00	0.25	0.50	5.90	N
24902	147	14th / Iron	No	4939.07	10.00	4949.07	99	9045	24902	60	5	740	0.00165	RCP	0.014	8.65	4941.61	8.68	4940.39	137.00	0.50	0.40	2.30	N
RIO GRANDE / I-40																								
7444	149	Rio Grande / Carson	A14-H	4952.87	7.72	4960.59	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7476	151	Rio Grande / Dora	No	4950.32	7.85	4958.17	1	7444	7476	24	2	1361	0.00193	RCP	0.014	7.64	4952.95	7.84	4950.33	9.00	0.25	0.25	2.80	N
7518	153	Rio Grande / Central	No	4947.94	8.89	4956.83	2	7476	7518	24	2	895	0.00255	RCP	0.014	7.85	4950.32	8.79	4948.04	17.00	0.25	0.25	1.50	N
24834	155	San Pasquale / Chacoma	No	4944.52	7.06	4951.58	3	7518	24834	24	2	1804	0.00081	RCP	0.014	8.89	4947.94	5.11	4946.47	15.00	0.25	0.40	4.40	N
8985	157	San Pasquale / Laguna	No	4940.76	11.38	4952.14	4	24834	8985	36	3	1437	0.00162	RCP	0.014	7.06	4944.52	9.95	4942.19	41.00	0.40	0.40	1.70	N
24859	159	Kit Carson / Laguna	No	4938.64	12.00	4950.64	5	8985	24859	48	4	442	0.00434	RCP	0.014	11.38	4940.76	11.80	4938.84	60.00	0.40	0.50	1.50	N
9015	161	Kit Carson / Franz Huning	No	4942.91	8.45	4951.36	6	24859	9015	36	3	670	0.00482	RCP	0.014	4.5	4946.14	8.45	4942.91	19.00	0.50	0.35	0.50	N
9069	163	Kit Carson / Alcalde	No	4940.85	8.80	4949.65	7	9015	9069	36	3	1428	0.00137	RCP	0.014	8.45	4942.91	8.69	4940.96	18.00	0.35	0.45	1.00	N
8TH STREET / IRON																								
13866	164	8th / Iron	No	4935.36	12.08	4947.44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24930	165	10th / Iron	No	4937.17	11.05	4948.22	15	13866	24930	72	6	713	-0.00125	RCP	0.014	11.16	4936.28	11.05	4937.17	73.00	0.50	0.50	1.00	N
24916	167	12th / Iron	No	4938.25	10.36	4948.61	14	24930	24916	66	5.5	717	-0.00132	RCP	0.014	10.92	4937.30	10.36	4938.25	98.00	0.50	0.25	1.20	N

TABLE MHE																								
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COA Mid Valley Drainage Management Plan																								
STORM DRAIN - MANHOLE INFORMATION							STORM DRAIN - PIPE INFORMATION																	
COA MH NAME	Page #	Location Description	Inflows (External Direct)	Invert Elev.	Max. Depth-Ground Surface - Invert	Rim Elev.	SWMM Pipe ID	Inlet Node	Outlet Node	Shape of the Pipe	Max. Depth of the Pipe	Length of the Pipe	Slope	Pipe Material	Pipe Roughness	Inlet Pipe Depth	Inlet Offset (Inlet Elev.)	Outlet Pipe Depth	Outlet Offset (Outlet Elevation)	Max.Flow	Entry Loss Coeff.	Exit Loss Coeff.	Ave. Loss Coeff.	Flap Gate
			(g)	(ft)	(ft)	(ft)				(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)				Y / N
							(c)										(d)		(e)	(h)	(f)	(f)	(f)	
24902	169	14th / Iron	No	4939.07	10.00	4949.07	13	24916	24902	66	5.5	659	-0.0012	RCP	0.014	10.33	4938.28	10.00	4939.07	90.00	0.25	0.40	1.00	N
24902A	170	Broadcast Plaza / Iron	No	4939.73	8.82	4948.55	12	24902	24902A	72	6	479	0.00027	RCP	0.014	9.21	4939.86	8.82	4939.73	129.00	0.40	0.40	0.50	N
9083	171	Broadcast Plaza / Iron	No	4935.33	12.62	4947.95	11	24902A	9083	60	5	376	0.01247	RCP	0.014	8.53	4940.02	12.62	4935.33	124.00	0.40	0.40	0.00	N
24902A	172	Broadcast Plaza / Iron	No	4939.73	8.82	4948.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9069	173	Alcalde / Iron	No	4940.85	8.80	4949.65	9	24902A	9069	36	3	514	-0.00222	RCP	0.014	8.82	4939.73	8.78	4940.87	17.00	0.40	0.45	1.40	N
24997	175	Alcalde / Iron	No	4936.14	13.35	4949.49	8	9069	24997	36	3	19	0.07158	RCP	0.014	8.31	4941.34	9.51	4939.98	30.00	0.45	0.30	0.00	N
9083	177	Broadcast Plaza / Iron	No	4935.33	12.62	4947.95	10	24997	9083	48	4	384	0.00211	RCP	0.014	13.35	4936.14	12.62	4935.33	69.00	0.30	0.40	0.70	N
2ND STREET / ATLANTIC																								
9407	179	2nd / Atlantic	No	4944.40	6.42	4950.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9426	181	2nd / Santa Fe	No	4943.03	6.39	4949.42	90	9407	9426	42	3.5	393	0.00338	RCP	0.014	6.42	4944.40	6.35	4943.07	15.00	0.30	0.35	0.00	N
22194	183	2nd / Pacific	No	4942.00	7.04	4949.04	89	9426	22194	48	4	356	0.00287	RCP	0.014	6.39	4943.03	7.03	4942.01	33.00	0.35	0.40	0.00	N
22191	185	3rd / Pacific	No	4940.79	8.13	4948.92	88	22194	22191	54	4.5	296	0.00409	RCP	0.014	7.04	4942.00	8.13	4940.79	33.00	0.40	0.25	0.00	N
9431	187	4th / Pacific	No	4939.27	9.59	4948.86	87	22191	9431	54	4.5	328	0.00463	RCP	0.014	8.13	4940.79	9.59	4939.27	33.00	0.25	0.50	0.50	N
22176	189	4th / Pacific	No	4938.45	10.72	4949.17	86	9431	22176	54	4.5	172	0.00552	RCP	0.014	9.46	4939.40	10.72	4938.45	42.00	0.50	0.25	0.00	N
22168	191	Barelas / Pacific	No	4936.56	9.92	4946.48	85	22176	22168	54	4.5	612	0.00309	RCP	0.014	10.72	4938.45	9.92	4936.56	42.00	0.25	0.50	1.00	N
22174	193	8th / Pacific	No	4928.49	16.58	4945.07	84	22168	22174	60	5	337	0.02395	RCP	0.014	9.92	4936.56	16.58	4928.49	42.00	0.50	0.40	0.50	N
22155	195	9th / Pacific	No	4928.35	16.89	4945.24	83	22174	22155	60	5	386	0.00036	RCP	0.014	16.58	4928.49	16.89	4928.35	50.00	0.40	0.50	0.50	N
9141	197	10th / Pacific	No	4928.21	17.88	4946.09	82	22155	9141	60	5	510	0.00027	CMP	0.024	16.89	4928.35	17.88	4928.21	66.00	0.50	0.40	0.00	N
9143	198	11th / Pacific	No	4927.28	20.70	4947.98	76	9141	9143	96	8	210	0.00443	CMP	0.024	17.88	4928.21	20.70	4927.28	235.00	0.40	0.40	0.00	N
22145	199	10th / Pacific	No	4925.85	24.38	4950.23	77	9143	22145	96	8	377	0.00379	CMP	0.024	20.70	4927.28	24.38	4925.85	235.00	0.40	0.25	0.00	N
22144	201	10th / Pacific	No	4924.79	22.45	4947.24	78	22145	22144	96	8	370	0.00286	CMP	0.024	24.38	4925.85	22.45	4924.79	235.00	0.25	0.25	0.00	N
22143	203	9th / Pacific	No	4923.99	22.50	4946.49	79	22144	22143	96	8	202	0.00396	CMP	0.024	22.45	4924.79	22.50	4923.99	235.00	0.25	0.25	0.00	N

TABLE MHE Existing Conditions - SWMM Manhole and Storm Drain Data COA Mid Valley Drainage Management Plan																								
STORM DRAIN - MANHOLE INFORMATION							STORM DRAIN - PIPE INFORMATION																	
COA MH NAME	Page #	Location Description	Inflows (External Direct)	Invert Elev.	Max. Depth- Ground Surface - Invert	Rim Elev.	SWMM Pipe ID	Inlet Node	Outlet Node	Shape of the Pipe	Max. Depth of the Pipe	Length of the Pipe	Slope	Pipe Material	Pipe Roughness	Inlet Pipe Depth	Inlet Offset (Inlet Elev.)	Outlet Pipe Depth	Outlet Offset (Outlet Elevation)	Max.Flow	Entry Loss Coeff.	Exit Loss Coeff.	Ave. Loss Coeff.	Flap Gate
			(g)	(ft)	(ft)	(ft)	(c)			(dia-in)	(ft)	(ft)	(ft/ft)		n		(ft)		(ft)	(cfs)	(f)	(f)	(f)	Y / N
10456	205	9th / Pacific	No	4922.76	20.45	4943.21	80	22143	10456	96	8	301	0.00409	CMP	0.024	22.50	4923.99	20.45	4922.76	235.00	0.25	0.35	0.00	N
10457	207	Barelas Pump Sta.	No	4922.01	26.60	4948.61	81	10456	BaPSINLET	96	8	243	-0.04514	CMP	0.024	20.45	4922.76	14.88	4933.73	262.00	0.35	0.25	0.00	N
22169	map pocket	Barelas / Pacific	No	4939.35	6.75	4946.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9453	map pocket	Barelas / Cromwell	No	4939.07	7.51	4946.58	204	22169	9453	30	2.5	194	0.00144	RCP	0.014	6.75	4939.35	7.51	4939.07	37.00	0.50	0.50	2.50	N
22127	map pocket	Barelas / Lewis	No	4937.86	7.66	4945.52	205	9453	22127	30	2.5	870	0.00139	RCP	0.014	7.51	4939.07	7.66	4937.86	24.00	0.50	0.45	5.30	N
10456	-	Riverside Drain	No	4922.76	20.45	4943.21	137	22127	10456	27	2.25	1157	0.01305	RCP	0.014	7.66	4937.86	20.45	4922.76	30.00	0.45	0.35	3.80	N
24859	-	Kit Carson / Laguna	No	4938.64	12.00	4950.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24997	-	Alcalde / Iron	No	4936.14	13.35	4949.49	500	24859	24997	48	4.00	2116	0.00118	RCP	0.014	12	4938.64	13.35	4936.14	56.00	0.50	0.30	0.00	N
(a) Additional depth of water beyond the maximum depth that is allowed before the junction floods (feet or meters). This parameter can be used to simulate bolted manhole covers or force main connections.																								
(b) Area occupied by ponded water atop the junction after flooding occurs (sq. feet or sq. meters). If the Allow Ponding simulation option is turned on, a non-zero value of the parameter will allow ponded water to be stored and subsequently returned to the conveyance system when capacity exists.																								
(c) Defined by Smith Engineering Co. - Not a City of Albuquerque number.																								
(d) Depth or elevation of the conduit invert above the node invert at the upstream end of the conduit (feet or meters)																								
(e) Depth or elevation of the conduit invert above the node invert at the downstream end of the conduit (feet or meters).																								
(f) See Table XX Manhole Headloss Coefficients																								
(g) Hydrographs computed from previous drainage reports.																								

TABLE MHC

Existing Conditions SWMM Manhole Headloss Coefficient Table

Storm Drain	Inlet Manhole				Outlet Manhole				Manholes in Between														
	COA #	Headloss Coefficient Through MH			COA #	Headloss Coefficient Through MH			Headloss Coefficient Through MH														
		Type of MH (A to G)	HL Coeff.	Total Inlet Loss Coeff.		Type of MH (A to G)	HL Coeff.	Total Outlet Loss Coeff.	A		B		C		D		E		F		G		Total Avg. Loss Coeff.
SWMM Conduit #								# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.		
57	6149	D	0.7	0.35	6231	B	0.6	0.30	5	0.5	1	0.6		0.8		0.7		0.8		0.9		1.0	3.10
35	6045	D	0.7	0.35	15184	D	0.7	0.35	1	0.5		0.6		0.8	1	0.7	1	0.8		0.9		1.0	2.00
34	15184	D	0.7	0.35	6218	C	0.8	0.40	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
36	6195	E	0.8	0.40	6246	C	0.8	0.40	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
37	6246	C	0.8	0.40	29163	C	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
38	29163	C	0.8	0.40	7635	A	0.5	0.25	4	0.5		0.6		0.8		0.7		0.8		0.9		1.0	2.00
39	7635	A	0.5	0.25	7650	C	0.8	0.40	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
40	7650	C	0.8	0.40	7656	G	1	0.50	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
43	29132	A	0.5	0.25	7628	A	0.5	0.25	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
44	7628	A	0.5	0.25	7656	G	1	0.50	4	0.5		0.6		0.8		0.7		0.8		0.9		1.0	2.00
42	33007	A	0.5	0.25	33027	A	0.5	0.25	5	0.5		0.6		0.8		0.7		0.8		0.9		1.0	2.50
41	33027	A	0.5	0.25	7656	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
45	7656	G	1	0.50	7963.11A	D	0.7	0.35		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
45A	7963.11A	D	0.7	0.35	7717	C	0.8	0.40	5	0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	3.20
46	7717	C	0.8	0.40	7716	C	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
33	6218	C	0.8	0.40	19719	C	0.8	0.40	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
32	19719	C	0.8	0.40	7654	A	0.5	0.25	6	0.5		0.6		0.8		0.7		0.8		0.9		1.0	3.00
31	7654	A	0.5	0.25	7714	A	0.5	0.25	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
58	6231	B	0.6	0.30	6259	A	0.5	0.25	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
59	6259	A	0.5	0.25	7638	C	0.8	0.40	2	0.5	2	0.6		0.8		0.7		0.8		0.9		1.0	2.20
60	7638	C	0.8	0.40	25807	B	0.6	0.30		0.5	1	0.6		0.8		0.7		0.8		0.9		1.0	0.60
61	25807	B	0.6	0.30	25349	B	0.6	0.30	5	0.5		0.6		0.8	2	0.7		0.8		0.9		1.0	3.90
91	25656	A	0.5	0.25	25677	C	0.8	0.40	4	0.5		0.6		0.8		0.7		0.8		0.9		1.0	2.00
92	25677	C	0.8	0.40	25622	G	1	0.50	4	0.5		0.6		0.8		0.7		0.8		0.9		1.0	2.00
1	7444	A	0.5	0.25	7476	A	0.5	0.25	4	0.5		0.6	1	0.8		0.7		0.8		0.9		1.0	2.80
2	7476	A	0.5	0.25	7518	A	0.5	0.25	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
3	7518	A	0.5	0.25	24834	E	0.8	0.40	4	0.5		0.6		0.8	1	0.7	1	0.8	1	0.9		1.0	4.40
47	7716	C	0.8	0.40	JB7766	F	0.9	0.45	6	0.5		0.6		0.8		0.7		0.8		0.9		1.0	3.00
48	JB7766	F	0.9	0.45	JB7769	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
49	JB7769	G	1	0.50	32865	C	0.8	0.40		0.5		0.6	1	0.8		0.7		0.8		0.9		1.0	0.80
50	29178	G	1	0.50	7870	G	1	0.50	1	0.5	1	0.6		0.8		0.7		0.8		0.9		1.0	1.10
51	7870	G	1	0.50	7861	E	0.8	0.40	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
52	7861	E	0.8	0.40	32878	B	0.6	0.30	3	0.5	2	0.6		0.8		0.7		0.8		0.9		1.0	2.70
53	32878	B	0.6	0.30	7848	C	0.8	0.40	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
54	7848	C	0.8	0.40	7830	G	1	0.50	3	0.5		0.6	1	0.8		0.7		0.8		0.9		1.0	2.30
30	7714	A	0.5	0.25	7740	G	1	0.50	6	0.5		0.6		0.8		0.7		0.8		0.9		1.0	3.00
29	7740	G	1	0.50	7830	G	1	0.50	5	0.5	3	0.6	1	0.8		0.7	1	0.8		0.9		1.0	5.90
28	7830	G	1	0.50	7865	G	1	0.50	1	0.5	1	0.6		0.8		0.7		0.8		0.9		1.0	1.10
27	7865	G	1	0.50	7908	G	1	0.50	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
26	7908	G	1	0.50	7912	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
25	7912	A	0.5	0.25	7955	G	1	0.50		0.5		0.6		0.8		0.7	1	0.8		0.9		1.0	0.80

TABLE MHC																							
Existing Conditions SWMM Manhole Headloss Coefficient Table																							
Storm Drain	Inlet Manhole				Outlet Manhole				Manholes in Between														
	COA #	Headloss Coefficient Through MH			COA #	Headloss Coefficient Through MH			Headloss Coefficient Through MH														
Type of MH (A to G)		HL Coeff.	Total Inlet Loss Coeff.	Type of MH (A to G)		HL Coeff.	Total Outlet Loss Coeff.	A		B		C		D		E		F		G		Total Avg. Loss Coeff.	
SWMM Conduit #								# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.		
24	7955	G	1	0.50	22517	D	0.7	0.35	1	0.5		0.6		0.8		0.7		0.8		0.9	1	1.0	1.50
55	7830	G	1	0.50	7816	D	0.7	0.35		0.5		0.6		0.8	1	0.7		0.8		0.9	1	1.0	1.70
56	7816	D	0.7	0.35	7815	G	1	0.50	1	0.5	1	0.6		0.8		0.7	1	0.8		0.9		1.0	1.90
62	25349	B	0.6	0.30	25352	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
63	25352	E	0.8	0.40	7815	G	1	0.50	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
64	7815	G	1	0.50	25253	B	0.6	0.30	1	0.5	2	0.6		0.8	2	0.7		0.8		0.9		1.0	3.10
65	25253	B	0.6	0.30	7977	D	0.7	0.35		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
66	7977	D	0.7	0.35	25238	C	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
67	25238	C	0.8	0.40	25240	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
68	25240	G	1	0.50	22584	D	0.7	0.35	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
69	22584	D	0.7	0.35	9260	A	0.5	0.25	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
93	25622	G	1	0.50	25105	C	0.8	0.40	3	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.50
94	25105	C	0.8	0.40	25109	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9	1	1.0	1.00
95	25109	A	0.5	0.25	25117	C	0.8	0.40	1	0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	1.20
96	25117	C	0.8	0.40	25048	D	0.7	0.35	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
97	25048	D	0.7	0.35	25034	A	0.5	0.25	3	0.5		0.6		0.8		0.7	1	0.8		0.9		1.0	2.30
98	25034	A	0.5	0.25	9045	G	1	0.50	9	0.5		0.6		0.8	2	0.7		0.8		0.9		1.0	5.90
4	24834	E	0.8	0.40	8985	E	0.8	0.40	1	0.5	2	0.6		0.8		0.7		0.8		0.9		1.0	1.70
5	8985	E	0.8	0.40	24859	G	1	0.50	1	0.5		0.6		0.8		0.7		0.8		0.9	1	1.0	1.50
6	24859	G	1	0.50	9015	D	0.7	0.35	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
7	9015	D	0.7	0.35	9069	F	0.9	0.45	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
23	9248	E	0.8	0.40	22517	D	0.7	0.35	4	0.5	1	0.6		0.8		0.7		0.8	1	0.9		1.0	3.50
22	22517	D	0.7	0.35	9310	G	1	0.50	5	0.5		0.6		0.8		0.7		0.8		0.9	2	1.0	4.50
21	9310	G	1	0.50	9348	C	0.8	0.40	7	0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	4.20
20	9348	C	0.8	0.40	9944	E	0.8	0.40	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
19	9344	E	0.8	0.40	9340	E	0.8	0.40		0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	0.70
18	9340	E	0.8	0.40	22250	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
17	22250	G	1	0.50	22429	D	0.7	0.35	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
16	22429	D	0.7	0.35	13866	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
70	9260	A	0.5	0.25	13866	G	1	0.50	5	0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	3.20
71	13866	G	1	0.50	7963.T	D	0.7	0.35	4	0.5	2	0.6		0.8		0.7		0.8		0.9		1.0	3.20
71A	7963.T	D	0.7	0.35	32981	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
72	32981	A	0.5	0.25	9121	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
73	9121	A	0.5	0.25	9129	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
15	13866	G	1	0.50	24930	G	1	0.50	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
14	24930	G	1	0.50	24916	A	0.5	0.25	1	0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	1.20
13	24916	A	0.5	0.25	24902	E	0.8	0.40	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
99	9045	G	1	0.50	24902	E	0.8	0.40	2	0.5	1	0.6		0.8	1	0.7		0.8		0.9		1.0	2.30
12	24902	E	0.8	0.40	24902A	E	0.8	0.40	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
11	24902A	E	0.8	0.40	9083	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
9	24902A	E	0.8	0.40	9069	F	0.9	0.45	1	0.5		0.6		0.8		0.7		0.8	1	0.9		1.0	1.40

TABLE MHC

Existing Conditions SWMM Manhole Headloss Coefficient Table

Storm Drain	Inlet Manhole				Outlet Manhole				Manholes in Between														
	COA #	Headloss Coefficient Through MH			COA #	Headloss Coefficient Through MH			Headloss Coefficient Through MH														
		Type of MH (A to G)	HL Coeff.	Total Inlet Loss Coeff.		Type of MH (A to G)	HL Coeff.	Total Outlet Loss Coeff.	A		B		C		D		E		F		G		Total Avg. Loss Coeff.
SWMM Conduit #								# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.		
8	9069	F	0.9	0.45	24997	B	0.6	0.30		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
10	24997	B	0.6	0.30	9083	E	0.8	0.40		0.5		0.6		0.8	1	0.7		0.8		0.9		1.0	0.70
90	9407	B	0.6	0.30	9426	D	0.7	0.35		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
89	9426	D	0.7	0.35	22194	C	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
88	22194	C	0.8	0.40	22191	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
87	22191	A	0.5	0.25	9431	G	1	0.50	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
86	9431	G	1	0.50	22176	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
85	22176	A	0.5	0.25	22168	G	1	0.50	2	0.5		0.6		0.8		0.7		0.8		0.9		1.0	1.00
84	22168	G	1	0.50	22174	E	0.8	0.40	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
83	22174	E	0.8	0.40	22155	G	1	0.50	1	0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.50
82	22155	G	1	0.50	9141	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
74	9129	A	0.5	0.25	MHB22410	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
74A	MHB22410	E	0.8	0.40	22410	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
75	22410	E	0.8	0.40	9141	E	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
76	9141	E	0.8	0.40	9143	C	0.8	1.4 [a]		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
77	9143	C	0.8	0.40	22145	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
78	22145	A	0.5	0.25	22144	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
79	22144	A	0.5	0.25	22143	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
80	22143	A	0.5	0.25	10456	D	0.7	0.35		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
81	10456	D	0.7	0.35	10457	A	0.5	0.25		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
125	7963.05A	D	0.7	0.35	7963.05M	A	0.5	0.25	3	0.5	6	0.6	2	0.8		0.7		0.8		0.9		1.0	6.70
132	32878	D	0.7	0.35	32878.A	C	0.8	0.40		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
134	32878.B	C	0.8	0.40	JB7769	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
129	7963.05A	G	1	0.50	AQ Pond	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
128	33027	G	1	0.50	AQ Pond	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
127	AQ Pond	G	1	0.50	7963.11A	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
131	B. Pond	G	1	0.50	32878.B	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
130	32878.A	G	1	0.50	B. Pump	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
126	7963.T	G	1	0.50	Ting. Pond	G	1	0.50		0.5		0.6		0.8		0.7		0.8		0.9		1.0	0.00
74A	MHB22410	G	1	0.50	22410	A	0.5	0.25		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.00
204	22169	G	1	0.50	9453	G	1	0.50		0.5		0.0		0.0		0.0		0.0		0.0		0.0	0.00
205	9453	G	1	0.50	22127	F	0.9	0.45	5	0.5		0.0		0.0	4.0	0.7		0.0		0.0		0.0	5.30
137	22127	F	0.9	0.45	10456	D	0.7	0.35	2	0.5		0.0		0.0	4.0	0.7		0.0		0.0		0.0	3.80
200	9152	B	0.6	0.30	9229	G	1	0.50		0.0		0.0		0.8		0.0		0.8		0.0		0.0	0.00
201	9229	G	1	0.50	32823	C	0.8	0.40		0.0		0.0		0.8		0.0		0.0		0.0		0.0	0.00
202	32823	C	0.8	0.40	UPSINLET	A	0.5	0.25		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.00
203	32823	C	0.8	0.40	MHB19A	A	0.5	0.25		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.00
500	24859	G	1	0.50	24997	B	0.6	0.30		0.0		0.0		0.0		0.0		0.0		0.0		0.0	0.00

A. Trunkline only with no bend at the junction.

B. Trunkline only with 45° bend at the junction.

C. Trunkline only with 90° bend at the junction.

Existing Conditions SWMM Manhole Headloss Coefficient Table																							TABLE MHC
Storm Drain	Inlet Manhole				Outlet Manhole				Manholes in Between														Total Avg. Loss Coeff.
	COA #	Headloss Coefficient Through MH			COA #	Headloss Coefficient Through MH			Headloss Coefficient Through MH														
SWMM Conduit #		Type of MH (A to G)	HL Coeff.	Total Inlet Loss Coeff.		Type of MH (A to G)	HL Coeff.	Total Outlet Loss Coeff.	A		B		C		D		E		F		G		
	# of MH				HL Coeff.				# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	# of MH	HL Coeff.	
D. Trunkline with one lateral.																							
E. Two roughly equivalent entrance lines with <90° between lines.																							
F. Two roughly equivalent entrance lines with >90° between lines.																							
G. Three or more entrance lines.																							
a. Total Outlet Coefficient increased to 1.4 to account for losses within MH due to crossing 72" SD																							

STREET PONDING COMPUTATIONS AND FIGURES

Table SP - Street Ponding Surface Area

Figure SP - Street Width Adjustment Sketch

Figures of Partial Steep Slope Basins –

Basins that contain mild sloped streets that could have ponding as follows:

Basin BR3

Basin BR9

Basin BR13

Basin BR17

Basin BR19

Basin B19.1

Basin B19.2

TABLE SP

STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		(d)	(d)		
Alcalde Basin													
A1	Coal	1265	26	26	3.38	0.87	22.62	28,614					
A1	Iron	1103	26	26	3.38	0.87	22.62	24,950					
A1	Stover	714	26	26	3.38	0.87	22.62	16,151					
A1	Rio	200	26	26	3.38	0.87	22.62	4,524					
A1	11th	745	28	28	3.92	0.86	24.08	17,940					
A1	12th	1244	28	28	3.92	0.86	24.08	29,956					
A1	13th	1298	28	28	3.92	0.86	24.08	31,256					
A1	14th	749	28	28	3.92	0.86	24.08	18,036	COA 24916	85713			
A1							Total	171,426	COA24902	85713	171,426		
A2							Total	0	COA9083				Alcalde Pump Station
A3	San Cristobal	216	28	28	3.92	0.86	24.08	5,201					No paved streets, one dirt road only.
A3	San Cristobal	157	28	28	3.92	0.86	24.08	3,781					
A3	Los Alamos	1000	28	28	3.92	0.86	24.08	24,080					
A3	Park	1519	36	36	6.48	0.82	29.52	44,841					
A3	16th	1461	30	30	4.50	0.85	25.5	37,256					
A3	16th	511	30	30	4.50	0.85	25.5	13,031					
A3	Silver	702	30	30	4.50	0.85	25.5	17,901					
A3	San Carlos	1796	28	28	3.92	0.86	24.08	43,248					
A3	San Patricio	1847	28	28	3.92	0.86	24.08	44,476					
A3	Escalante	1368	28	28	3.92	0.86	24.08	32,941					
A3	Kit Carson	1363	28	28	3.92	0.86	24.08	32,821					
A3	Franz Hunning	507	28	28	3.92	0.86	24.08	12,209					
A3	Raynolds	1240	28	28	3.92	0.86	24.08	29,859					
A3	Alcalde	1031	28	28	3.92	0.86	24.08	24,826					
A3	Iron	943	26	26	3.38	0.87	22.62	21,331					
A3	Coal	517	26	26	3.38	0.87	22.62	11,695					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft. (d)		
A3	Lead	327	26	26	3.38	0.87	22.62	7,397					
A3	San Carlos	167	22	22	2.42	0.89	19.58	3,270	COA24902A	140992			
A3	Broadcast Plaza	333	52	52	13.52	0.74	38.48	12,814	COA9069	140992			
A3							Total	422,976	COA24997	140992	422,976		
A4	Franz Hunning	389	28	28	3.92	0.86	24.08	9,367					
A4	Escalante	648	28	28	3.92	0.86	24.08	15,604					
A4	Kit Carson	686	28	28	3.92	0.86	24.08	16,519					
A4	Laguna (SWB)	310	18	18	1.62	0.91	16.38	5,078					
A4	Laguna (NWB)	307	18	18	1.62	0.91	16.38	5,029	COA24859	25798			
A4							Total	51,596	COA9015	25798	51,596		
A5	San Cristobal	197	28	28	3.92	0.86	24.08	4,744					
A5	Los Alamos	508	28	28	3.92	0.86	24.08	12,233					
A5	Park	1950	36	36	6.48	0.82	29.52	57,564					
A5	Gold	1653	28	28	3.92	0.86	24.08	39,804					
A5	Silver	1903	28	28	3.92	0.86	24.08	45,824					
A5	Lead	1360	28	28	3.92	0.86	24.08	32,749					
A5	Raynolds	225	28	28	3.92	0.86	24.08	5,418					
A5	11th	910	28	28	3.92	0.86	24.08	21,913					
A5	12th	905	28	28	3.92	0.86	24.08	21,792					
A5	13th	900	28	28	3.92	0.86	24.08	21,672					
A5	14th	1897	28	28	3.92	0.86	24.08	45,680					
A5	15th	1366	28	28	3.92	0.86	24.08	32,893	COA25034	171143			
A5							Total	342,286	COA9045	171143	342,286		
A6	Central (WB)	1264	30	30	4.50	0.85	25.5	32,232					
A6	Central (EB)	1258	22	22	2.42	0.89	19.58	24,632					
A6	Chacoma	343	28	28	3.92	0.86	24.08	8,259					
A6	San Cristobal	1119	28	28	3.92	0.86	24.08	26,949					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
A6	Los Alamos	668	28	28	3.92	0.86	24.08	16,085					
A6	San Carlos	136	30	30	4.50	0.85	25.5	3,468					
A6	San Pasquale (NB)	1151	20	20	2.00	0.90	18	20,718					
A6	San Pasquale (SB)	1196	20	20	2.00	0.90	18	21,528					
A6	Laguna (WB)	2425	20	20	2.00	0.90	18	43,650					
A6	Laguna (EB)	2425	20	20	2.00	0.90	18	43,650					
A6							Total	241,168	COA8985	241168	241,168		
A7	Central	1645	60	60	18	0.70	42	69,090					
A7	Roma	1228	22	22	2.42	0.89	19.58	24,044					
A7	Marquette	1168	26	26	3.38	0.87	22.62	26,420					
A7	Tijeras	1099	26	26	3.38	0.87	22.62	24,859					
A7	Kent	438	22	22	2.42	0.89	19.58	8,576					
A7	11th	1252	22	22	2.42	0.89	19.58	24,514					
A7	12th	1162	26	26	3.38	0.87	22.62	26,284					
A7	13th	1054	22	22	2.42	0.89	19.58	20,637					
A7	14th	965	28	28	3.92	0.86	24.08	23,237	COA25048	123831			
A7							Total	247,663	COA25034	123831	247,663		

TABLE SP

Q:\SEC-11-10112 COA MID VALLEY DMP\Appendices Volume 3\Appendix 7.2 Street Surface Area Table\Current Street Paving Area

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Street Area Per ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
A12	Kinley	256	12	12	0.72	0.94	11.28	2,888					
A12	11th	1500	28	28	3.92	0.86	24.08	36,120					
A12	12th	1301	52	52	13.52	0.74	38.48	50,062					
A12	12th	1509	36	36	6.48	0.82	29.52	44,546					
A12	15th	1643	12	12	0.72	0.94	11.28	18,533	COA25656	197750			
A12							Total	395,501	COA25677	197750	395,501		
A13	Bellamah	1193	36	36	6.48	0.82	29.52	35,217					
A13	Mountain	1257	26	26	3.38	0.87	22.62	28,433					
A13	Old Town	1804	24	24	2.88	0.88	21.12	38,100					
A13	Marble	376	28	28	3.92	0.86	24.08	9,054					
A13	Slate	461	20	20	2	0.90	18	8,298					
A13	Lomas (WB)	1296	32	32	5.12	0.84	26.88	34,836					
A13	Lomas (EB)	1111	32	32	5.12	0.84	26.88	29,864					
A13	Central (WB)	1220	32	32	5.12	0.84	26.88	32,794					
A13	Central (EB)	992	32	32	5.12	0.84	26.88	26,665					
A13	Central	1096	32	32	5.12	0.84	26.88	29,460					
A13	Merritt	453	26	26	3.38	0.87	22.62	10,247					
A13	New York	492	28	28	3.92	0.86	24.08	11,847					
A13	Willis	218	22	22	2.42	0.89	19.58	4,268					
A13	Alahambra	1539	30	30	4.5	0.85	25.5	39,245					
A13	Chacoma	1679	28	28	3.92	0.86	24.08	40,430					
A13	18th	1318	36	36	6.48	0.82	29.52	38,907					
A13	19th	2170	32	32	5.12	0.84	26.88	58,330					
A13	20th	948	36	36	6.48	0.82	29.52	27,985					
A13	Rancho Seco	230	36	36	6.48	0.82	29.52	6,790					
A13	San Pasquale	662	18	18	1.62	0.91	16.38	10,844					
A13	San Pasquale	1047	42	42	8.82	0.79	33.18	34,739					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.	(d)	
A10	16th	1580	28	28	3.92	0.86	24.08	38,046					
A10	17th	1139	28	28	3.92	0.86	24.08	27,427					
A10	18th	670	24	24	2.88	0.88	21.12	14,150					
A10	Old Town	363	22	22	2.42	0.89	19.58	7,108	A7	123831			
A10							Total	277,221	COA25048	277221	401,053		
A11	Charvevoix	280	12	12	0.72	0.94	11.28	3,158					
A11	Church	248	18	18	1.62	0.91	16.38	4,062					
A11	North Plaza	233	28	28	3.92	0.86	24.08	5,611					
A11	South Plaza	514	24	24	2.88	0.88	21.12	10,856					
A11	Hollywood	890	12	12	0.72	0.94	11.28	10,039					
A11	Central (WB)	696	34	34	5.78	0.83	28.22	19,641					
A11	Central (EB)	702	34	34	5.78	0.83	28.22	19,810					
A11	San Felipe	940	24	24	2.88	0.88	21.12	19,853					
A11	Romero	927	34	34	5.78	0.83	28.22	26,160					
A11	Rio Grande	718	42	42	8.82	0.79	33.18	23,823					
A11	Edna	1363	20	20	2	0.90	18	24,534					
A11							Total	167,548	COA7518	167548	167,548		
A12	Aspen	1367	36	36	6.48	0.82	29.52	40,354					
A12	Bellamah	900	36	36	6.48	0.82	29.52	26,568					
A12	Sawmill	2138	28	28	3.92	0.86	24.08	51,483					
A12	Arias	622	26	26	3.38	0.87	22.62	14,070					
A12	Summer	1240	28	28	3.92	0.86	24.08	29,859					
A12	Rosemont	533	26	26	3.38	0.87	22.62	12,056					
A12	Claire	708	28	28	3.92	0.86	24.08	17,049					
A12	Mountain	2295	26	26	3.38	0.87	22.62	51,913					

INCLUDES ALL THE PONDING

SURFACE AREA OF BASIN A10 AND
HALF THE PONDING SURFACE
AREA OF BASIN A7

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	(a)	(b)	(c)	(c)	(c)	sq. ft. (c)		sq. ft.	sq. ft. (d)		
A14-H	Agua Fresca	237	24	24	2.88	0.88	21.12	5,005					
A14-H	Zearing	229	24	24	2.88	0.88	21.12	4,836					
A14-H	Mis Abuelitos	425	24	24	2.88	0.88	21.12	8,976					
A14-H	18th	1039	24	24	2.88	0.88	21.12	21,944					
A14-H							Total	40,762	N/A		0		All street area drains to Sawmill detention/retention pond
A15	Aspen	1714	28	28	3.92	0.86	24.08	41,273					TOTAL AREA FROM BASIN A15 WAS ADDED TO COA7444 IN BASIN A18
A15	Zearing	1374	24	24	2.88	0.88	21.12	29,019					BECAUSE A15 DID NOT HAVE ANY STORM DRAINS OR MANHOLES
A15	Bellamah	599	36	36	6.48	0.82	29.52	17,682					THAT WERE MODELLED IN SWMMM AND ALSO BECAUSE COA7444 WAS THE CLOSEST AVAILABLE
A15	19th	985	26	26	3.38	0.87	22.62	22,281					MANHOLE TO THE OUTLET OF BASIN A15.THE TOTAL PONDING AREA FOR COA7444 THEREFORE INCLUDES ALL THE PONDING SURFACE AREA OF BASIN A15 AND HALF THE PONDING SURFACE AREA OF BASIN A18
A15	20th	879	28	28	3.92	0.86	24.08	21,166					
A15	21st	781	28	28	3.92	0.86	24.08	18,806					
A15	22nd	727	28	28	3.92	0.86	24.08	17,506					
A15	23rd	333	28	28	3.92	0.86	24.08	8,019					
A15	Rio Grande	1374	42	42	8.82	0.79	33.18	45,589	A18	70818			
A15							Total	221,342	COA7444	221342	292,160	A18 & A15	
A16-C							Total	0					
A17-C	Zearing	550	12	12	0.72	0.94	11.28	6,204					
A17-C	Northwest	1266	22	22	2.42	0.89	19.58	24,788					

TABLE SP
STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.		ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
A13	San Felipe	602	22	22	2.42	0.89	19.58	11,787					
A13	Romero	318	24	24	2.88	0.88	21.12	6,716					
A13	Rio Grande	688	34	34	5.78	0.83	28.22	19,415					
A13	Clayton	750	28	28	3.92	0.86	24.08	18,060					
A13							Total	612,333	COA24834		612,333		

TABLE SP
STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
A17-C	Southeast	408	22	22	2.42	0.89	19.58	7,989					
A17-C	Northwest	104	22	22	2.42	0.89	19.58	2,036					
A17-C	Southeast	213	22	22	2.42	0.89	19.58	4,171					
A17-C	Southeast	141	22	22	2.42	0.89	19.58	2,761					
A17-C							Total	47,949					
A18	Pueblo Bonito	775	28	28	3.92	0.86	24.08	18,662					
A18	Mountain	2471	22	22	2.42	0.89	19.58	48,382					
A18	Consuelo	725	24	24	2.88	0.88	21.12	15,312					
A18	Rio Grande	1339	42	42	8.82	0.79	33.18	44,428					
A18	Edna	133	20	20	2	0.90	18	2,394					
A18	Tohatchi	357	26	26	3.38	0.87	22.62	8,075					
A18	Panmunjon	182	28	28	3.92	0.86	24.08	4,383	COA7444	70818			
A18							Total	141,636	COA7476	70818	141,636		
A19-C							Total	0					
A20-C							Total	0					
A21-C							Total	0				basin	
A22-O	Carson	854	12	12	0.72	0.94	11.28	9,633				basin	
A22-O							Total	9,633				basin	
A23-C							Total	0					
A24-O	Dora	1774	26	26	3.38	0.87	22.62	40,128				basin	
A24-O	Panmunjon	318	28	28	3.92	0.86	24.08	7,657					
A24-O							Total	47,785	COA7476		47,785		
Barelas Basin													
B1	Barelas	1239	22	22	2.42	0.89	19.58	24,260					
B1	Marquez	386	42	42	8.82	0.79	33.18	12,807					
B1	Marquez	525	12	12	0.72	0.94	11.28	5,922					
B1	Barelas	174	28	28	3.92	0.86	24.08	4,190					

TABLE SP

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TABLE SP

STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft. (a)	ft. (b)	sq. ft. (c)	sq. ft. (c)	(c)	ft. (c)	sq. ft. (c)		sq. ft.	sq. ft. (d)		
B5	2nd	791	36	36	6.48	0.82	29.52	23,350					
B5	3rd	735	36	36	6.48	0.82	29.52	21,697					
B5	4th	1417	42	42	8.82	0.79	33.18	47,016					
B5	5th	1146	28	28	3.92	0.86	24.08	27,596					
B5	Barelas	1725	28	28	3.92	0.86	24.08	41,538	COA9453	117391			
B5	7th	349	28	28	3.92	0.86	24.08	8,404	COA22168	117391			
B5							Total	352,174	COA22169	117391	352,174		
B6	Santa Fe	162	28	28	3.92	0.86	24.08	3,901					
B6	Pacific	553	28	28	3.92	0.86	24.08	13,316					
B6	4th	821	42	42	8.82	0.79	33.18	27,241	COA9431	22229			
B6							Total	44,458	COA22176	22229	44,458		

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
B7	Santa Fe	436	28	28	3.92	0.86	24.08	10,499					
B7	Pacific	436	28	28	3.92	0.86	24.08	10,499					
B7	2nd	835	36	36	6.48	0.82	29.52	24,649	COA9426	22812			
B7	3rd	772	36	36	6.48	0.82	29.52	22,789	COA22194	22812			
B7							Total	68,436	COA22191	22812	68,436		
B8	Stover	539	26	26	3.38	0.87	22.62	12,192					
B8	Santa Fe	869	28	28	3.92	0.86	24.08	20,926					
B8	10th	1927	28	28	3.92	0.86	24.08	46,402					
B8	11th	450	28	28	3.92	0.86	24.08	10,836	COA9129	45178			
B8							Total	90,356	COA22410	45178	90,356		
B9-O	12th	200	28	28	3.92	0.86	24.08	4,816					
B9-O							Total	5,600					
B10	Santa Fe	874	28	28	3.92	0.86	24.08	21,046					
B10	Pacific	304	28	28	3.92	0.86	24.08	7,320					
B10	8th	664	36	36	6.48	0.82	29.52	19,601					
B10	9th	786	28	28	3.92	0.86	24.08	18,927	COA9121	33447			
B10							Total	66,894	COA22155	33447	66,894		
B11	Atlantic	670	28	28	3.92	0.86	24.08	16,134	COA32981	18760	18760		
B11							Total	18,760	TINGLEYPARK SURGE POND				
B12	Hazeldine	768	28	28	3.92	0.86	24.08	18,493					
B12	1st	750	36	36	6.48	0.82	29.52	22,140					
B12	2nd	367	32	32	5.12	0.84	26.88	9,865					
B12	3rd	493	32	32	5.12	0.84	26.88	13,252					
B12	Atlantic	493	40	40	8	0.80	32	15,776					
B12							Total	79,526	COA9407		79,526		

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B13	Stover	995	28	28	3.92	0.86	24.08	23,960					
B13	7th	645	28	28	3.92	0.86	24.08	15,532					
B13	8th	1072	28	28	3.92	0.86	24.08	25,814					
B13	9th	337	28	28	3.92	0.86	24.08	8,115					
B13							Total	73,420	COA13866	73420	73,420		
B14	Gold	709	36	36	6.48	0.82	29.52	20,930					
B14	Silver	723	42	42	8.82	0.79	33.18	23,989					
B14	Lead	726	32	32	5.12	0.84	26.88	19,515					
B14	Coal	834	42	42	8.82	0.79	33.18	27,672					
B14	Iron	822	28	28	3.92	0.86	24.08	19,794					
B14	7th	600	40	40	8	0.80	32	19,200					
B14	7th	325	28	28	3.92	0.86	24.08	7,826					
B14	8th	1389	40	40	8	0.80	32	44,448					
B14							Total	183,374	COA22429		183,374		
B15	Gold	1082	36	36	6.48	0.82	29.52	31,941					
B15	Silver	1082	42	42	8.82	0.79	33.18	35,901					
B15	Lead	1080	32	32	5.12	0.84	26.88	29,030					
B15	Coal	1091	42	42	8.82	0.79	33.18	36,199					
B15	Iron	1101	28	28	3.92	0.86	24.08	26,512					
B15	4th	1428	42	42	8.82	0.79	33.18	47,381					
B15	5th	1420	28	28	3.92	0.86	24.08	34,194	COA9340	94192			
B15	6th	1720	28	28	3.92	0.86	24.08	41,418	COA9344	94192			
B15							Total	282,576	COA22250	94192	282,576		
B16	Lead	1053	42	42	8.82	0.79	33.18	34,939					
B16	Coal	1060	42	42	8.82	0.79	33.18	35,171					
B16	Iron	678	30	30	4.5	0.85	25.5	17,289					
B16	1st	1618	36	36	6.48	0.82	29.52	47,763					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	(a)	(b)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B16	2nd	961	36	36	6.48	0.82	29.52	28,369			(d)		
B16	3rd	992	40	40	8	0.80	32	31,744					
B16							Total	195,274	COA9348		195,274		
B17	Central	772	38	38	7.22	0.81	30.78	23,762					
B17	Gold	664	36	36	6.48	0.82	29.52	19,601					
B17	Silver	368	36	36	6.48	0.82	29.52	10,863					
B17	2nd	1007	36	36	6.48	0.82	29.52	29,727					
B17	3rd	1002	42	42	8.82	0.79	33.18	33,246					
B17							Total	117,200	COA9310		187,810	B17, B18	Manhole COA9310, in basin B17 has ponding area for both B17 and B18 added to it because B18 did not have any storm drains or manholes that were modelled in SWMM
B18	Central	1078	38	38	7.22	0.81	30.78	33,181					
B18	4th	228	28	28	3.92	0.86	24.08	5,490					
B18	5th	562	36	36	6.48	0.82	29.52	16,590					
B18	6th	571	32	32	5.12	0.84	26.88	15,348					
B18							Total	70,610	COA9310		187,809.6	B17, B18	
B19.1	Tijeras	330	32	32	5.12	0.84	26.88	8,870					Ponding area of 8870 sq. ft. for basin B19.1 was assumed to occur at the Tijeras Ave. sag curve near the Convention Center and applied to Manhole COA9229.
B19.1	Commercial	395	36	36	6.48	0.82	29.52	11,660	COA9229	8870	8870	B19.1	

TABLE SP

STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.		ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
B.19.2	Central	330	46	46	10.58	0.77	35.42	11,689					Ponding area of 11,689 sq. ft. for B19.2 was assumed to occur at the Central Ave. sag curve and applied to Manhole COA9248. The length of the sag curve was assumed to be the same as the sag curve on Tijeras Ave.
	Copper	318	12	12	0.72	0.94	11.28	3,587	COA9248	11689	11689	B19.2	

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B20	Tijeras	802	32	32	5.12	0.84	26.88	21,558					
B20	Copper	310	12	12	0.72	0.94	11.28	3,497					
B20	Copper	423	36	36	6.48	0.82	29.52	12,487					
B20	2nd	900	42	42	8.82	0.79	33.18	29,862					
B20	3rd	919	42	42	8.82	0.79	33.18	30,492					
B20							Total	97,896	COA22517		97,896		
B21	Gold	737	28	28	3.92	0.86	24.08	17,747					
B21	Silver	739	28	28	3.92	0.86	24.08	17,795					
B21	Lead	740	28	28	3.92	0.86	24.08	17,819					
B21	Coal	621	28	28	3.92	0.86	24.08	14,954					
B21	Iron	756	28	28	3.92	0.86	24.08	18,204					
B21	9th	1646	28	28	3.92	0.86	24.08	39,636					
B21	10th	2007	28	28	3.92	0.86	24.08	48,329					
B21							Total	174,484	COA24930		174,484		
B22	Fruit	475	22	22	2.42	0.89	19.58	9,301					
B22	Roma	494	22	22	2.42	0.89	19.58	9,673					
B22	Marquette	515	28	28	3.92	0.86	24.08	12,401					
B22	Tijeras	593	28	28	3.92	0.86	24.08	14,279					
B22	Kent	884	22	22	2.42	0.89	19.58	17,309					
B22	Copper	583	28	28	3.92	0.86	24.08	14,039					
B22	Park	485	24	24	2.88	0.88	21.12	10,243					
B22	Central	840	64	64	19.84	0.69	44.16	37,094					
B22	9th	485	28	28	3.92	0.86	24.08	11,679					
B22	Luna	1048	22	22	2.42	0.89	19.58	20,520					
B22	10th	794	22	22	2.42	0.89	19.58	15,547					
B22							Total	172,087	COA9260		172,084		Add to B23

TABLE SP

Q:\SEC---PROJECTS\2010 Projects\110112 COA MID VALLEY DMP\DMP Appendices Volume 3\Appendix 7.2 Street Surface Area Table\Current Street Ponding Area

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B26	5th	1533	40	40	8	0.80	32	49,056					
B26	6th	1425	40	40	8	0.80	32	45,600					
B26	7th	1373	28	28	3.92	0.86	24.08	33,062	COA25240	84190			
B26	8th	1338	22	22	2.42	0.89	19.58	26,198	COA25238	84190			
B26	Keleher	1339	22	22	2.42	0.89	19.58	26,218	COA7977	84190			
B26							Total	336,759	COA25253	84190	336,759		
B27	Granite	1237	28	28	3.92	0.86	24.08	29,787					
B27	Marble	1242	28	28	3.92	0.86	24.08	29,907					
B27	Slate	688	32	32	5.12	0.84	26.88	18,493					
B27	Lomas (WB)	1516	40	40	8	0.80	32	48,512					
B27	Lomas (EB)	1516	40	40	8	0.80	32	48,512					
B27	1st	1375	36	36	6.48	0.82	29.52	40,590					
B27	2nd	1302	36	36	6.48	0.82	29.52	38,435					
B27	3rd	1323	36	36	6.48	0.82	29.52	39,055					
B27	4th	1325	36	36	6.48	0.82	29.52	39,114	COA7740	166203			
B27							Total	332,406	COA7830	166203	332,406		
B28	Bellamah	780	28	28	3.92	0.86	24.08	18,782					
B28	Constitution	555	28	28	3.92	0.86	24.08	13,364					
B28	Kinley	746	28	28	3.92	0.86	24.08	17,964					
B28	Summer	740	28	28	3.92	0.86	24.08	17,819					
B28	Rosemont	742	28	28	3.92	0.86	24.08	17,867					
B28	Mountain	745	28	28	3.92	0.86	24.08	17,940					
B28	Granite	829	28	28	3.92	0.86	24.08	19,962					
B28	Marble	805	28	28	3.92	0.86	24.08	19,384					
B28	Slate	547	28	28	3.92	0.86	24.08	13,172					
B28	Lomas (WB)	757	40	40	8	0.80	32	24,224					
B28	Lomas (EB)	757	40	40	8	0.80	32	24,224					

TABLE SP

STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb) ft.	Original Street Cross Section Area sq. ft.	Street Crown Area sq. ft.	Reduction Factor to Remove Street Crown Area (c)	Revised Street Width (Curb to Curb) ft.	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep sq. ft.	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole sq. ft.	Total Ponding Surface Area sq. ft.	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
B28	5th	3297	28	28	3.92	0.86	24.08	79,392					
B28	6th	3273	28	28	3.92	0.86	24.08	78,814					
B28							Total	362,909	COA7816		362,909		
B29	Kinley	1154	28	28	3.92	0.86	24.08	27,788					
B29	Lynch	399	28	28	3.92	0.86	24.08	9,608					
B29	Summer	778	28	28	3.92	0.86	24.08	18,734					
B29	Mountain	1476	24	24	2.88	0.88	21.12	31,173					
B29	Granite	618	28	28	3.92	0.86	24.08	14,881					
B29	Marble	603	28	28	3.92	0.86	24.08	14,520					
B29	Orchard	367	26	26	3.38	0.87	22.62	8,302					
B29	Slate	854	20	20	2	0.90	18	15,372					
B29	Lomas (WB)	1396	40	40	8	0.80	32	44,672					
B29	Lomas (EB)	1396	40	40	8	0.80	32	44,672					
B29	Los Tomas	2433	28	28	3.92	0.86	24.08	58,587					
B29	7th	2954	26	26	3.38	0.87	22.62	66,819					
B29	8th	3057	24	24	2.88	0.88	21.12	64,564					
B29	Forrester	2893	26	26	3.38	0.87	22.62	65,440					
B29	Rosemont	154	28	28	3.92	0.86	24.08	3,708					
B29	10th	598	12	12	0.72	0.94	11.28	6,745	COA25352	166821			
B29	11th	249	22	22	2.42	0.89	19.58	4,875	COA25349	166821			
B29							Total	500,462	COA7815	166821	500,462		
B30	Kinley	1488	36	36	6.48	0.82	29.52	43,926					
B30	Summer	1243	28	28	3.92	0.86	24.08	29,931					
B30	Rosemont	479	28	28	3.92	0.86	24.08	11,534					
B30	Mountain	1542	36	36	6.48	0.82	29.52	45,520					
B30	1st	1395	36	36	6.48	0.82	29.52	41,180					
B30	2nd	1360	40	40	8	0.80	32	43,520					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		(d)			
B30	3rd	1370	36	36	6.48	0.82	29.52	40,442					
B30	4th	1356	36	36	6.48	0.82	29.52	40,029					
B30							Total	296,083	COA7714		296,083		
B31	Aspen	1213	26	26	3.38	0.87	22.62	27,438					
B31	Constitution	1034	28	28	3.92	0.86	24.08	24,899					
B31	1st	1188	36	36	6.48	0.82	29.52	35,070					
B31	2nd	1257	40	40	8	0.80	32	40,224					
B31	3rd	1192	42	42	8.82	0.79	33.18	39,551					
B31	4th	1263	36	36	6.48	0.82	29.52	37,284					
B31	Hannett	681	36	36	6.48	0.82	29.52	20,103					
B31	Bellamah	168	30	30	4.5	0.85	25.5	4,284					
B31							Total	228,852	COA7654		228,852		
B32	Aspen	1745	28	28	3.92	0.86	24.08	42,044					
B32	Bellamah	1758	36	36	6.48	0.82	29.52	51,896					
B32	5th	492	28	28	3.92	0.86	24.08	11,847					
B32	6th	453	28	28	3.92	0.86	24.08	10,908					
B32	Los Tomases	768	36	36	6.48	0.82	29.52	22,671					
B32	7th	915	28	28	3.92	0.86	24.08	22,033					
B32	8th	959	36	36	6.48	0.82	29.52	28,310	COA6259	64850			
B32	Hannett	214	26	26	3.38	0.87	22.62	4,841	COA7638	64850			
B32							Total	194,550	COA25807	64850	194,550		
B33	McKnight	846	28	28	3.92	0.86	24.08	20,372					
B33	Bezemek	603	36	36	6.48	0.82	29.52	17,801					
B33	Haines	1282	28	28	3.92	0.86	24.08	30,871					
B33	6th	1323	42	42	8.82	0.79	33.18	43,897					
B33	7th	1302	42	42	8.82	0.79	33.18	43,200					
B33	8th	1326	36	36	6.48	0.82	29.52	39,147	COA6149	130067			

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

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		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B33							Total	195,284	COA6231	130067	260,134		
B34	4th	1977	36	36	6.48	0.82	29.52	58,361					
B34	5th	2305	36	36	6.48	0.82	29.52	68,044					
B34	140 Frontage (WB)	3236	28	28	6.48	0.77	21.52	69,639					
B34	140 (WB)	2136	96	96	6.48	0.93	89.52	191,215					
B34	140 Frontage (EB)	3931	28	28	3.38	0.88	24.62	96,781	COA6045	224607			Add to B36
B34	140 (EB)	2120	96	96	6.48	0.93	89.52	189,782	COA15184	224607	673,822		
B34							Total	673,822	COA6218	224607			
B35	Indian School	1189	22	22	2.42	0.89	19.58	23,281					
B35	McKnight	881	36	36	6.48	0.82	29.52	26,007					
B35	Haines	1135	36	36	6.48	0.82	29.52	33,505					
B35	1st	1258	36	36	6.48	0.82	29.52	37,136					
B35	2nd	1083	36	36	6.48	0.82	29.52	31,970					
B35	3rd	1225	36	36	6.48	0.82	29.52	36,162					
B35							Total	188,061	COA19719		188,061		See basin B41
B36	Menaul (WB)	857	32	32	5.12	0.84	26.88	23,036					
B36	Towner	458	32	32	5.12	0.84	26.88	12,311					
B36	4th	1083	52	52	13.52	0.74	38.48	41,674					
B36	6th	174	70	70	24.5	0.65	45.5	7,917					
B36							Total	84,938	COA6045	84938	309,545		Street ponding surface area for basins B36 and one third area of B34 are both added to manhole COA6045 since there are no storm drains manholes modelled in B36.
B37-C							Total	0					basin
B38-C							Total	0					basin
B39-O							Total	0					basin
B40	Menaul (WB)	760	32	32	5.12	0.84	26.88	20,429					basin

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

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		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.		
B40	Prospect	311	36	36	6.48	0.82	29.52	9,181			(d)		
B40	Anvada	713	36	36	6.48	0.82	29.52	21,048					
B40	1st	1851	36	36	6.48	0.82	29.52	54,642					
B40	2nd	1804	36	36	6.48	0.82	29.52	53,254					
B40	I40 Frontage (WB)	997	28	28	6.48	0.77	21.52	21,455					
B40	I40 (WB)	979	96	96	6.48	0.93	89.52	87,640					
B40	I40 Frontage (EB)	719	28	28	6.48	0.77	21.52	15,473					
B40	I40 (EB)	991	96	96	6.48	0.93	89.52	88,714					
B40							Total	371,836	COA19719		559,897	B40, B35	
B41	I40 Frontage (WB)	2688	28	28	6.48	0.77	21.52	57,846					
B41	I40 (WB)	3705	96	96	6.48	0.93	89.52	331,672					
B41	I40 Frontage (EB)	1711	28	28	6.48	0.77	21.52	36,821					
B41	I40 (EB)	3677	96	96	6.48	0.93	89.52	329,165					
B41							Total	755,503	N/A		0		Don't include with any MHs, I40 basin mostly elevated

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.	(c)	(c)	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		(d)			
Broadway Basin													
BR1	Woodward	632	36	36	6.48	0.82	29.52	18,657					
BR1	Fruit	787	36	36	6.48	0.82	29.52	23,232					
BR1	High	1083	36	36	6.48	0.82	29.52	31,970					
BR1	Don Cipriano	123	28	28	3.92	0.86	24.08	2,962					
BR1	Edith	620	36	36	6.48	0.82	29.52	18,302					
BR1	Tranquillino	216	28	28	3.92	0.86	24.08	5,201					
BR1							Total	100,325	COA29178	0	0		Sleep slope can't pond in street
BR2	Commercial	457	24	24	2.88	0.88	21.12	9,652					
BR2							Total	9,652	BROADWAY LOMAS POND		9,652		
BR3	Granite	201	12										BEFORE PARTIAL STREET AREA MADE AVAILABLE DUE TO STEEP SLOPES
BR3	Marble	345	18	12	0.72	0.94	11.28	2,267					
BR3	Marble	727	28	28	1.62	0.91	16.38	5,651					
BR3	Page	517	28	28	3.92	0.86	24.08	17,506					
BR3	Placido Martinez	293	20	20	3.92	0.86	24.08	12,449					
BR3	Walter	338	28	28	2	0.90	18	5,274					
BR3	Edith	1483	36	36	3.92	0.86	24.08	8,139					
BR3	Franciscan	207	28	28	6.48	0.82	29.52	43,778					
BR3	Arno	1156	28	28	3.92	0.86	24.08	4,985					
BR3	Broadway	722	42	42	3.92	0.86	24.08	27,836	COA32878.A	50614			
BR3							Total	23,956	COA32878.B	50614			
								151,842	COA32865	50614	151,842		
BR3	Granite	0	12	12	0.72	0.94	11.28	0					AFTER PARTIAL STREET AREA AVAILABLE DUE TO STEEP SLOPES

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb) ft.	Original Street Cross Section Area sq. ft. (c)	Street Crown Area sq. ft. (c)	Reduction Factor to Remove Street Crown Area (c)	Revised Street Width (Curb to Curb) ft.	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep sq. ft. (c)	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole sq. ft.	Total Ponding Surface Area sq. ft. (d)	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)					
BR3	Marble	0	18	18	1.62	0.91	16.38	0					
BR3	Marble	500	28	28	3.92	0.86	24.08	12,040					
BR3	Page	0	28	28	3.92	0.86	24.08	0					
BR3	Placido Martinez	110	20	20	2	0.90	18	1,980					
BR3	Walter	0	28	28	3.92	0.86	24.08	0					
BR3	Edith	0	36	36	6.48	0.82	29.52	0					
BR3	Franciscan	0	28	28	3.92	0.86	24.08	0					
BR3	Armo	1150	28	28	3.92	0.86	24.08	27,692	COA32878.A	21867			
BR3	Broadway	720	42	42	8.82	0.79	33.18	23,890	COA32878.B	21867			
BR3							Total	65,602	COA32865	21867	65,602		
BR4	Lomas (EB)	2702	36	36	8	0.78	28	75,656					
BR4	Lomas (WB)	2826	36	36	8	0.78	28	79,128					
BR4	I25 Ramp (SB)	1666	36	36	6.48	0.82	29.52	49,180					
BR4	I25 Ramp (NB)	1282	36	36	44.18	-0.23	-8.18	-10,487					
BR4	I25 (SB)	1614	96	96	33.62	0.65	62.38	100,681					
BR4	I25 (NB)	1612	82	82	2.88	0.96	79.12	127,541					
BR4	Las Lomas	970	36	36	6.48	0.82	29.52	28,634					
BR4							Total	450,335	COA7870	0	0	BR4	Steep slope can't pond in street

TABLE SP
STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	(a)	(b)	sq. ft. (c)	(c)	ft. (c)	sq. ft. (c)		sq. ft.	sq. ft. (d)		
BR5	125 Frontage	371	26	26	6.48	0.75	19.52	7,242					
BR5	Mountain	1666	36	36	6.48	0.82	29.52	49,180					
BR5	125 (SB)	742	96	96	46.08	0.52	49.92	37,041					
BR5	125 (NB)	726	82	82	33.62	0.59	48.38	35,124					
BR5							Total	128,587	COA7963.05A	0	0		Steep slope can't pond in street
BR6	Granite	1054	18	18	1.62	0.91	16.38	17,265					
BR6	Broadway	699	42	42	8.82	0.79	33.18	23,193					
BR6							Total	40,457	COA7766.JB		40,457		
BR7-H1	Woodward	631	62	62	18.6	0.70	43.4	27,385					
BR7-H1							Total	27,385	N/A		0		Steep slope can't pond in street
BR7-H2	Woodward	728	55	55	15.13	0.72	39.87	29,025					
BR7-H2							Total	29,025	N/A		0		Steep slope can't pond in street
BR8-H1							Total	0	N/A		0		Steep slope can't pond in street
BR8-H2							Total	0	N/A		0		Steep slope can't pond in street
BR9	Kinley	502	36	36	6.48	0.82	29.52	14,819					
BR9	Rosemont	870	16	16	1.2	0.93	14.8	12,876					
BR9	Mountain	1597	28										
BR9	Broadway	1666	42	42	8.82	0.79	33.18	55,278	COA7716	42513			BEFORE PARTIAL STREET AREA MADE AVAILABLE DUE TO STEEP SLOPES
BR9	Arno	207	36	36	6.48	0.82	29.52	6,111	COA7717	42513			
BR9							Total	127,539	COA7963.11A	42513	127,539		
BR9	Kinley	500	36	36	6.48	0.82	29.52	14,760					
BR9	Rosemont	250	16	16	1.2	0.93	14.8	3,700					No major paved roads in the basin
BR9	Mountain	1040	28										PARTIAL STREET AREA AVAILABLE DUE TO STEEP SLOPES

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	(a)	sq. ft. (c)	sq. ft. (c)	(c)	ft.	sq. ft. (c)		sq. ft.	sq. ft. (d)		
BR9	Broadway	1810	42	42	8.82	0.79	33.18	60,056	COA7716	36488			
BR9	Arno	200	36	36	6.48	0.82	29.52	5,904	COA7717	36488			
BR9							Total	109,463	COA7963.11A	36488	109,463		
BR10	Crespin	326	16	16	1.2	0.93	14.8	4,825					
BR10	San Ignacio	313	28	28	3.92	0.86	24.08	7,537					
BR10	Cordero	552	12	12	0.72	0.94	11.28	6,227					
BR10	Sprunk	438	12	12	0.72	0.94	11.28	4,941					
BR10	Kinley	500	28	28	3.92	0.86	24.08	12,040					
BR10	High	198	26	26	3.38	0.87	22.62	4,479					
BR10	Edith	495	24	24	2.88	0.88	21.12	10,243					
BR10	Walter	1110	24	24	2.88	0.88	21.12	23,443					Part of Edith turns to dirt road in basin
BR10	Stone	472	18	18	1.62	0.91	16.38	7,731					
BR10							Total	81,466	COA7963.05M	0			Steep slope can't pond in street
BR11	Indian School	2347	60	60	18	0.70	42	98,574					
BR11	Locust	738	36	36	6.48	0.82	29.52	21,786					
BR11	High	147	28	28	3.92	0.86	24.08	3,540	COA33007	0	0		Steep slope can't pond in street
BR11							Total	123,900	COA33027	0	0		Steep slope can't pond in street
BR12							Total	0	N/A		0		Steep slope can't pond in street
BR13	Broadway	350	28	28	3.92	0.86	24.08	8,428					No paved roads within the basin
BR13	Hannett	971	28	28	3.92	0.86	24.08	23,382					BEFORE PARTIAL STREET AREA
BR13	Martinez	774	12	12	0.72	0.94	11.28	8,731					MADE AVAILABLE DUE TO STEEP SLOPES
BR13	Aspen	953	16	16	1.2	0.93	14.8	14,104					
BR13	Gomez	948	16	16	1.2	0.93	14.8	14,030					
BR13	Odella	395	60	60	18	0.70	42	16,590					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.	(d)	
BR13	Broadway	1493	42	42	8.82	0.79	33.18	49,538					
BR13	Edith	994	28	28		1.00	28	27,832	COA7628	81317			
BR13							Total	162,635	COA7656	81317	162,635		
BR13	Broadway	1450	28	28	3.92	0.86	24.08	34,916					No paved roads within the basin
BR13	Hannett	0	28	28	3.92	0.86	24.08	0					AFTER PARTIAL STREET AREA MADE AVAILABLE DUE TO STEEP SLOPES
BR13	Martinez	0	12	12	0.72	0.94	11.28	0					
BR13	Aspen	0	16	16	1.2	0.93	14.8	0					
BR13	Gomez	0	16	16	1.2	0.93	14.8	0					
BR13	Odelia	460	60	60	18	0.70	42	19,320					
BR13	Broadway	0	42	42	8.82	0.79	33.18	0					
BR13	Edith	0	28	28		1.00	28	0	COA7628	27118			
BR13							Total	54,236	COA7656	27118	54,236		
BR14	Commercial	1456	42	42	8.82	0.79	33.18	48,310					
BR14	Odelia	224	36	36	6.48	0.82	29.52	6,612	COA7635	27461			
BR14							Total	54,923	COA7650	27461	54,923		
BR15-C							Total	0					
BR16	McKnight	918	24	24	2.88	0.88	21.12	19,388					No paved roads within the basin
BR16							Total	19,388	N/A		0		Steep slope can't pond in street
BR17	Indian School	1247	32										BEFORE PARTIAL STREET AREA AVAILABLE DUE TO STEEP SLOPES
BR17	McKnight	1061	36	36	6.48	0.82	29.52	31,321					
BR17	140 Frontage (WB)	972	28	28	8.82	0.69	19.18	18,643					

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	(a)	(b)	(c)	(c)	(c)	sq. ft. (c)		sq. ft.	(d)		
BR17	140 (WB)	965	96	96	3.92	0.96	92.08	88,857					
BR17	140 Frontage (EB)	969	28	28	3.92	0.86	24.08	23,334					
BR17	140 (EB)	968	96	96	3.92	0.96	92.08	89,133					
BR17	Broadway	1901	42	42	8.82	0.79	33.18	63,075					
BR17	Cutler	997	28	28	3.92	0.86	24.08	24,008					
BR17	Anvada	992	28	28	3.92	0.86	24.08	23,887					
BR17							Total	395,778	COA29132		395,778		

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		(a)	(b)	(c)	(c)	(c)	(c)	(c)		sq. ft.	sq. ft.	(d)	
BR17	Indian School	0	32										
BR17	McKnight	0	36	32	5.12	0.84	26.88	0					
BR17	I40 Frontage (WB)	0	28	36	6.48	0.82	29.52	0					
BR17	I40 (WB)	0	96	28	8.82	0.69	19.18	0					
BR17	I40 Frontage (EB)	0	28	96	3.92	0.96	92.08	0					
BR17	I40 (EB)	0	96	28	3.92	0.86	24.08	0					
BR17	Broadway	560	42	96	3.92	0.96	92.08	0					
BR17	Cutler	0	28	42	8.82	0.79	33.18	18,581					
BR17	Arvada	0	28	28	3.92	0.86	24.08	0					
BR17		0	28	28	3.92	0.86	24.08	0					
BR17							Total	18,581	COA29132		18,581		AFTER PARTIAL STREET AREA AVAILABLE DUE TO STEEP SLOPES
BR18	I40 (WB)	397	96	96	3.92	0.96	92.08	36,556					
BR18	I40 Frontage (EB)	564	28	28	3.92	0.86	24.08	13,581					
BR18	I40 (EB)	390	96	96	5.12	0.95	90.88	35,443					
BR18	Prospect	170	28	28	3.92	0.86	24.08	4,094					
BR18	Culter	455	28	28	3.92	0.86	24.08	10,956					
BR18	Arvada	449	28	28	3.92	0.86	24.08	10,812					
BR18	Indian School	494	32	32	5.12	0.84	26.88	13,279					
BR18	McKnight	423	36	36	6.48	0.82	29.52	12,487	COA6246	73751			
BR18	Commercial	2533	42	42	8.82	0.79	33.18	84,045	COA6195	73751			
BR18							Total	221,253	COA29163	73751	221,253		
BR19	Lomas (EB)	806	36	36	6.48	0.82	29.52	23,793					AFTER PARTIAL STREET AREA AVAILABLE DUE TO STEEP SLOPES

TABLE SP
STREET PONDING SURFACE AREA
 Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length ft.	Original Street Width (Curb to Curb) ft.	Original Street Cross Section Area sq. ft. (c)	Street Crown Area sq. ft. (c)	Reduction Factor to Remove Street Crown Area (c)	Revised Street Width (Curb to Curb) ft.	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep sq. ft. (c)	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole sq. ft.	Total Ponding Surface Area sq. ft. (d)	Basins Added To Manhole	Comments
BR19	Lomas (WB)	805	36	36	6.48	0.82	29.52	23,764					
BR19	Fruit	333	36	36	6.48	0.82	29.52	9,830					
BR19	Roma	343	36	36	6.48	0.82	29.52	10,125					
BR19	Grand	698	42	42	8.82	0.79	33.18	23,160					
BR19	Tijeras	652	36	36	6.48	0.82	29.52	19,247					
BR19	Arno	1036	36	36	6.48	0.82	29.52	30,583					
BR19	Broadway	1455	42	42	8.82	0.79	33.18	48,277	COA7861	0	0		Steep slope can't pond in street
BR19							Total	188,779	COA32878	188779	188,779		
BR19	Lomas (EB)	300	36										
BR19	Lomas (WB)	0	36	36	6.48	0.82	29.52	8,856					
BR19	Fruit	0	36	36	6.48	0.82	29.52	0					
BR19	Roma	0	36	36	6.48	0.82	29.52	0					
BR19	Grand	0	42	42	8.82	0.79	33.18	0					
BR19	Tijeras	0	36	36	6.48	0.82	29.52	0					
BR19	Arno	0	36	36	6.48	0.82	29.52	0					
BR19	Broadway	530	42	42	8.82	0.79	33.18	17,585	COA7861	0	0		Steep slope can't pond in street
BR19							Total	26,441	COA32878	26441	26,441		
BR20	Marquette	540	36	36	6.48	0.82	29.52	15,941					
BR20	John	691	36	36	6.48	0.82	29.52	20,398					
BR20	Commercial	940	36	36	6.48	0.82	29.52	27,749					
BR20							Total	90,529	COA7848		90,529		
BR21	Medial Arts	1171	28	28	3.92	0.86	24.08	28,198					
BR21	Sigma Chi	1114	28	28	6.48	0.77	21.52	23,973					
BR21	Encino	269	32	32	6.48	0.80	25.52	6,865					

TABLE SP
STREET PONDING SURFACE AREA

Mid-Valley Drainage Management Plan

Basin No.	Street Name	Length	Original Street Width (Curb to Curb)	Original Street Cross Section Area	Street Crown Area	Reduction Factor to Remove Street Crown Area	Revised Street Width (Curb to Curb)	Total Adjusted Surface Area Per Street Available for Ponding at 1 ft. deep	MH No.s Surface Ponding Area Added Into	Surface Area Added Per Manhole	Total Ponding Surface Area	Basins Added To Manhole	Comments
		ft.	ft.	sq. ft.	sq. ft.		ft.	sq. ft.		sq. ft.	sq. ft.		
		(a)	(b)	(c)	(c)	(c)	(c)	(c)			(d)		
BR21	Spruce	235	28	28	6.48	0.77	21.52	5,057					
BR21							Total	64,093	COA 7870		0		Steep slope can't pond in street

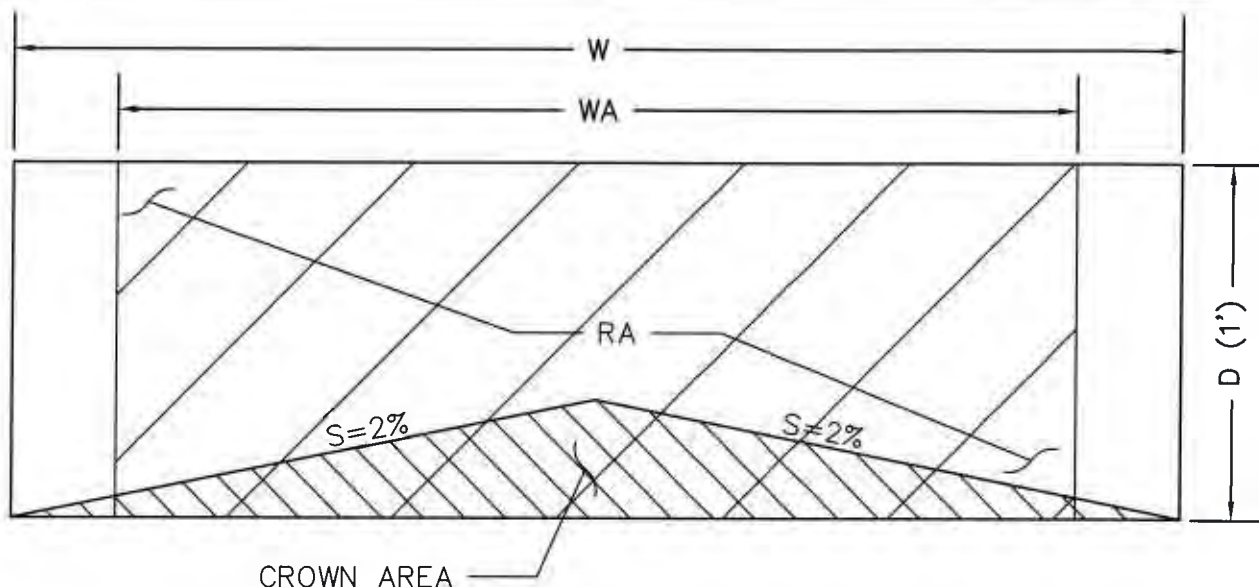
(a) some street lengths shortened to account for intersection overlapping

(b) widths were measure in AutoCAD on LIDAR mapping as shown in the Drainage Basin Maps

(c) SWMM allows water that exceeds manhole rim elevations to be stored in a ponding area assigned to a manhole, and as the HGL recedes below the rim, the stored water volume is added back into the same manhole. Due to the flat nature of most basins in the Mid Valley area, the street surface area was computed as the width of the street between curbs by the total length of the given street. Note that SWMM output provides the ponded depth in that surface area. The maximum ponded depth that was assumed in each street cross-section is 1-foot to allow for determination of depths up to the FEMA limit of 1 foot for floodplain designation. However, a simple computation of each street surface ponded area based on 1-foot depth by the width would overestimate the actual ponded area available as this does not account for loss of street cross-section area due to the street crown.

Therefore, the street crown cross-section area (COA requires 2% cross-slope) was removed from the total cross-section area (assuming a rectangular section 1-foot deep by the width) in order to compute the revised street cross-section area and a revised street width. The revised street width by the street length therefore provides for the adjusted street surface area within each street that will provide a more accurate street flow depth when the HGL exceeds rim elevations.
SEE FIGURE SP ATTACHED FOR DEFINITION SKETCH

(d) Ponding area for mild sloped basins was distributed equally among all the manholes within basin boundary. However, for basins with part steep and part mild areas, only the mild sloped street areas were allowed for ponding. Street ponding areas for Mild sloped basins without a manhole were added to the nearest downstream manhole



TYPICAL STREET CROSS SECTION
NOT TO SCALE

W = ORIGINAL STREET WIDTH

WA = WIDTH ADJUSTED TO ACCOUNT FOR STREET CROWN

$$\frac{\text{CROWN AREA}}{\text{RECTANGLE AREA}} = \text{FRACTION}$$

RA = ADJUSTED RECTANGULAR AREA = ORIGINAL RECTANGLE AREA (1-FRACTION)

$$RA = (WA) (D)$$

$$WA = \frac{RA}{D}$$

$$D = 1$$

THEREFORE,

$$WA = RA$$

PURPOSE:
STREET WIDTH ADJUSTMENT FOR CROWN AREA
LOSS FOR STREET PONDING SURFACE AREA
COMPUTATIONS

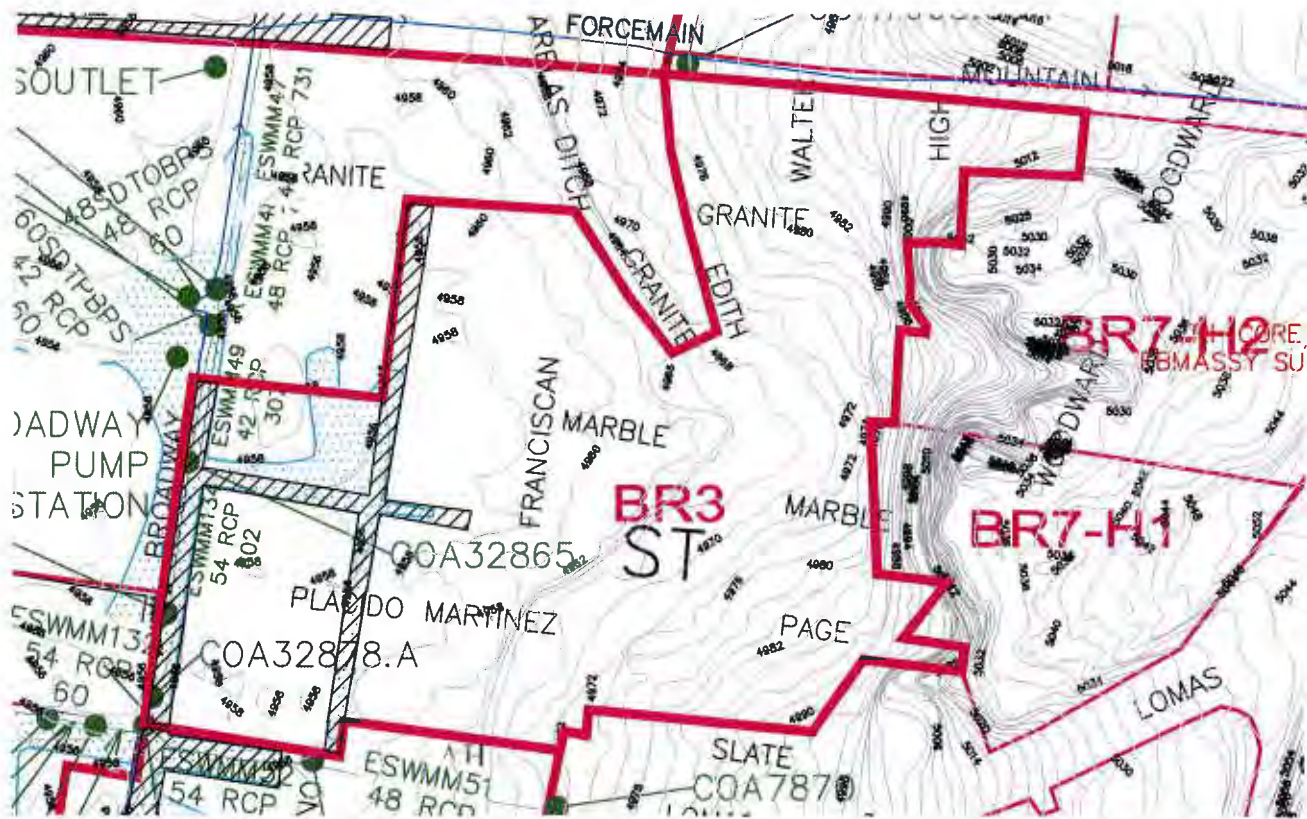
MID-VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

**STREET WIDTH
ADJUSTMENT SKETCH
FIGURE SP**



LEGEND

-  MILD SLOPE STREET AREAS THAT COULD HAVE PONDING

SCALE: 1" = 400'

400' 0 400' 800' 1200' Feet

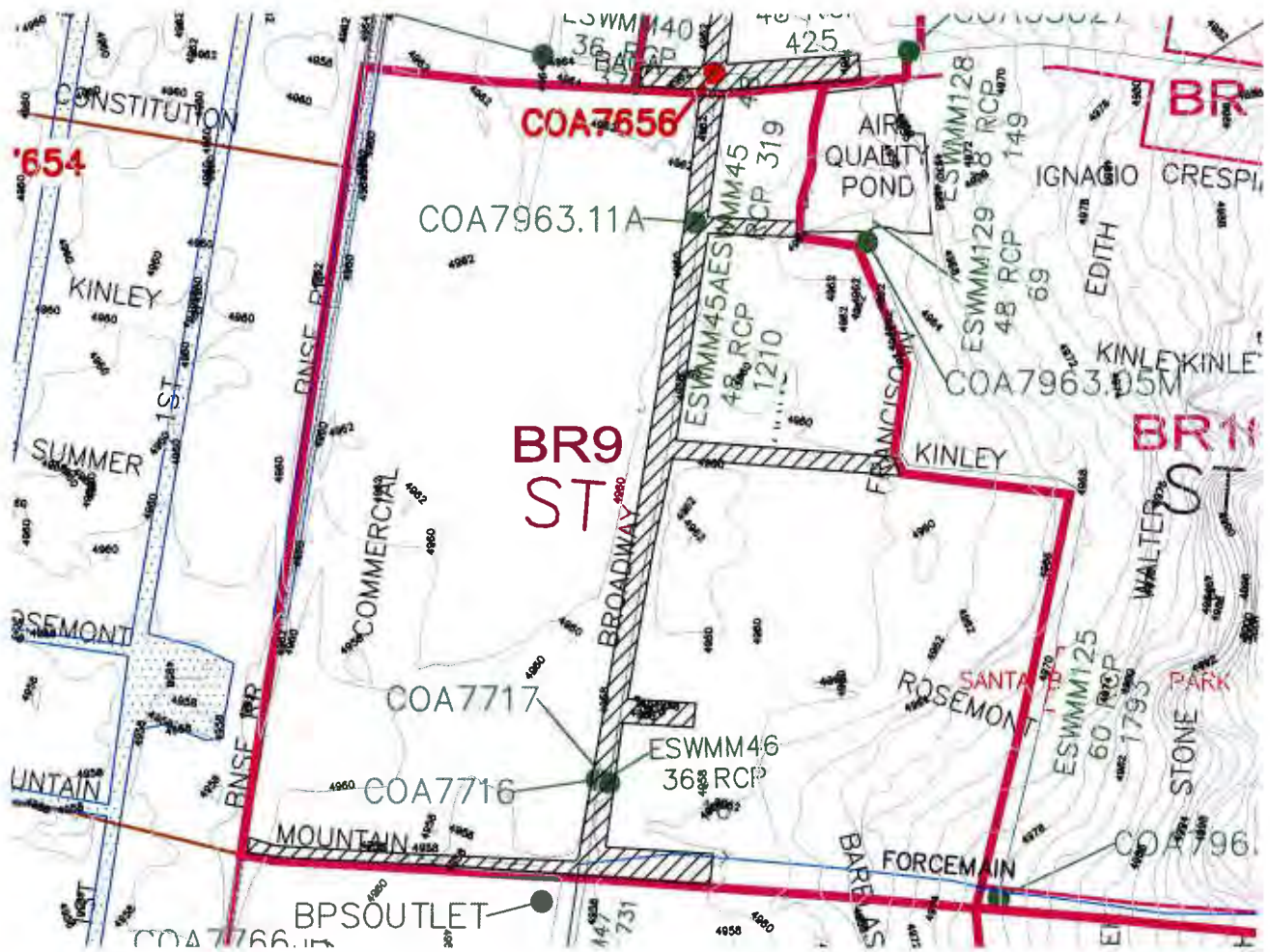
MID VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

PARTIAL STEEP
SLOPE BASIN
BASIN BR3



LEGEND

-  MILD SLOPE STREET AREAS THAT COULD HAVE PONDING

SCALE: 1" = 400'

400' 0 400' 800' 1200' Feet

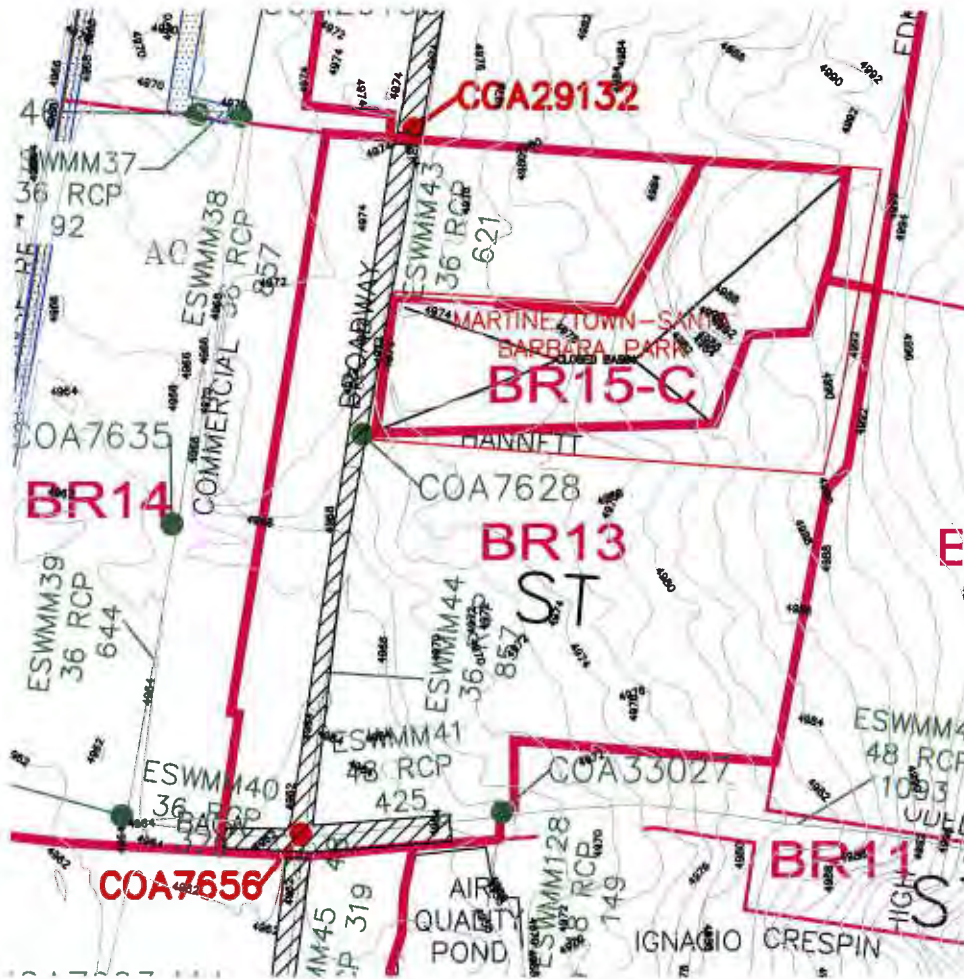
MID VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

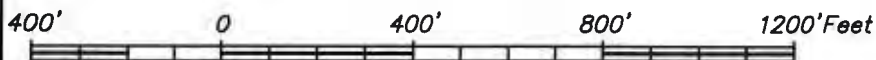
**PARTIAL STEEP
SLOPE BASIN
BASIN BR9**



LEGEND

-  MILD SLOPE STREET AREAS THAT COULD HAVE PONDING

SCALE: 1" = 400'



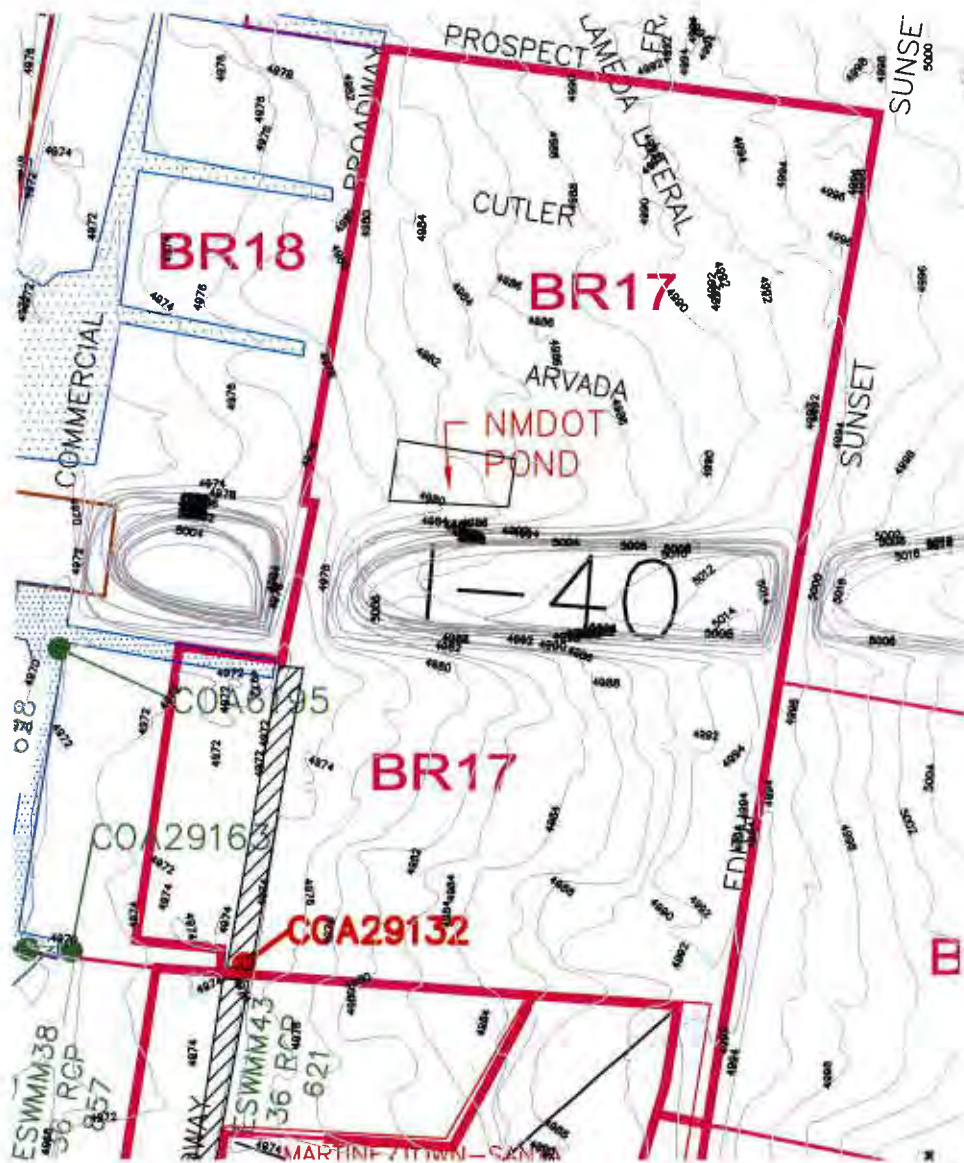
MID VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

PARTIAL STEEP
SLOPE BASIN
BASIN BR13



LEGEND

 MILD SLOPE STREET AREAS THAT COULD HAVE PONDING

SCALE: 1" = 400'

400' 0 400' 800' 1200' Feet

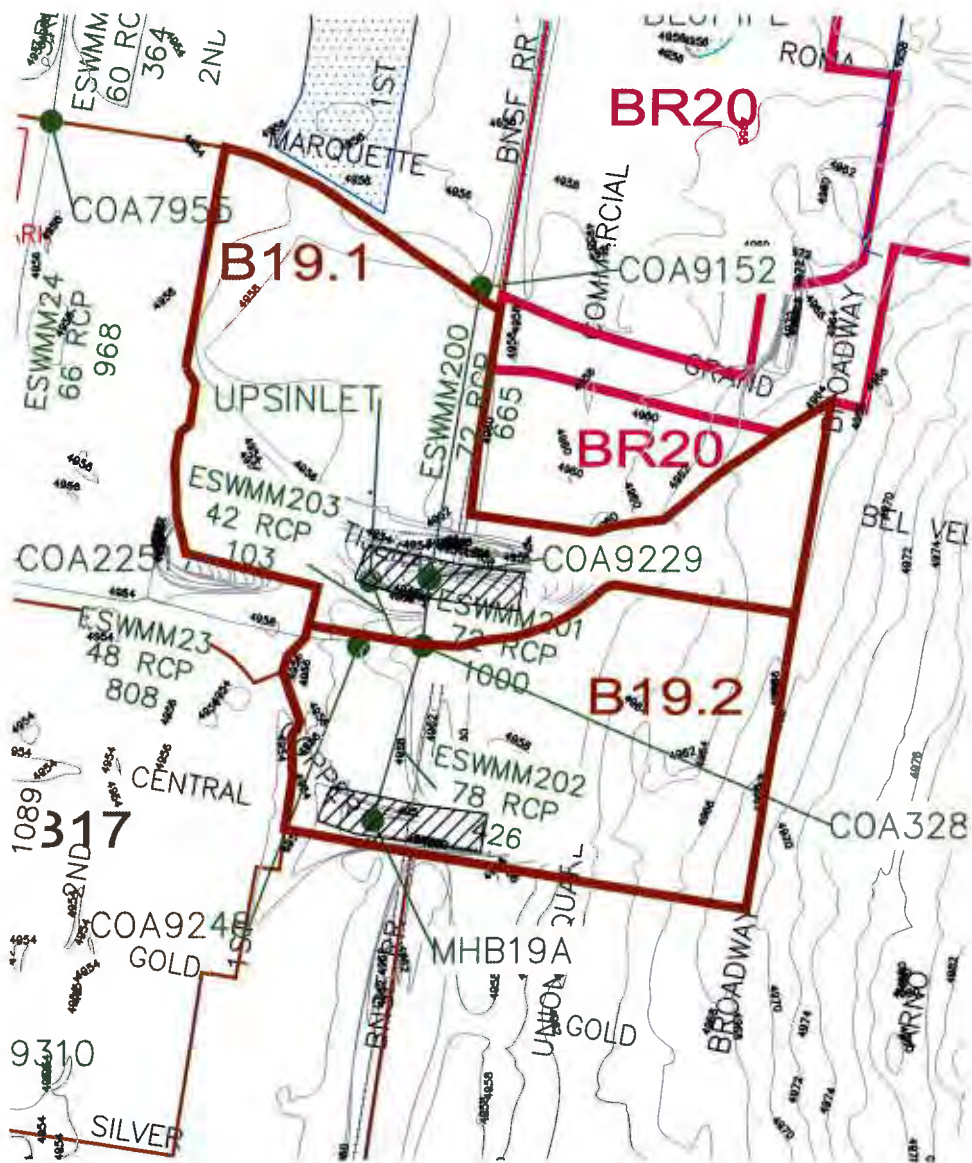
MID VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

PARTIAL STEEP
SLOPE BASIN
BASIN BR17



LEGEND

 MILD SLOPE STREET AREAS THAT COULD HAVE PONDING

SCALE: 1" = 400'

400' 0 400' 800' 1200' Feet

MID-VALLEY DRAINAGE MANAGEMENT PLAN

FOR THE CITY OF ALBUQUERQUE &
ALBUQUERQUE METROPOLITAN ARROYO
FLOOD CONTROL AUTHORITY

August - 2011

SEC PROJECT NO. 110112

PARTIAL STEEP
SLOPE BASIN
BASIN B19