EXHIBIT “G”

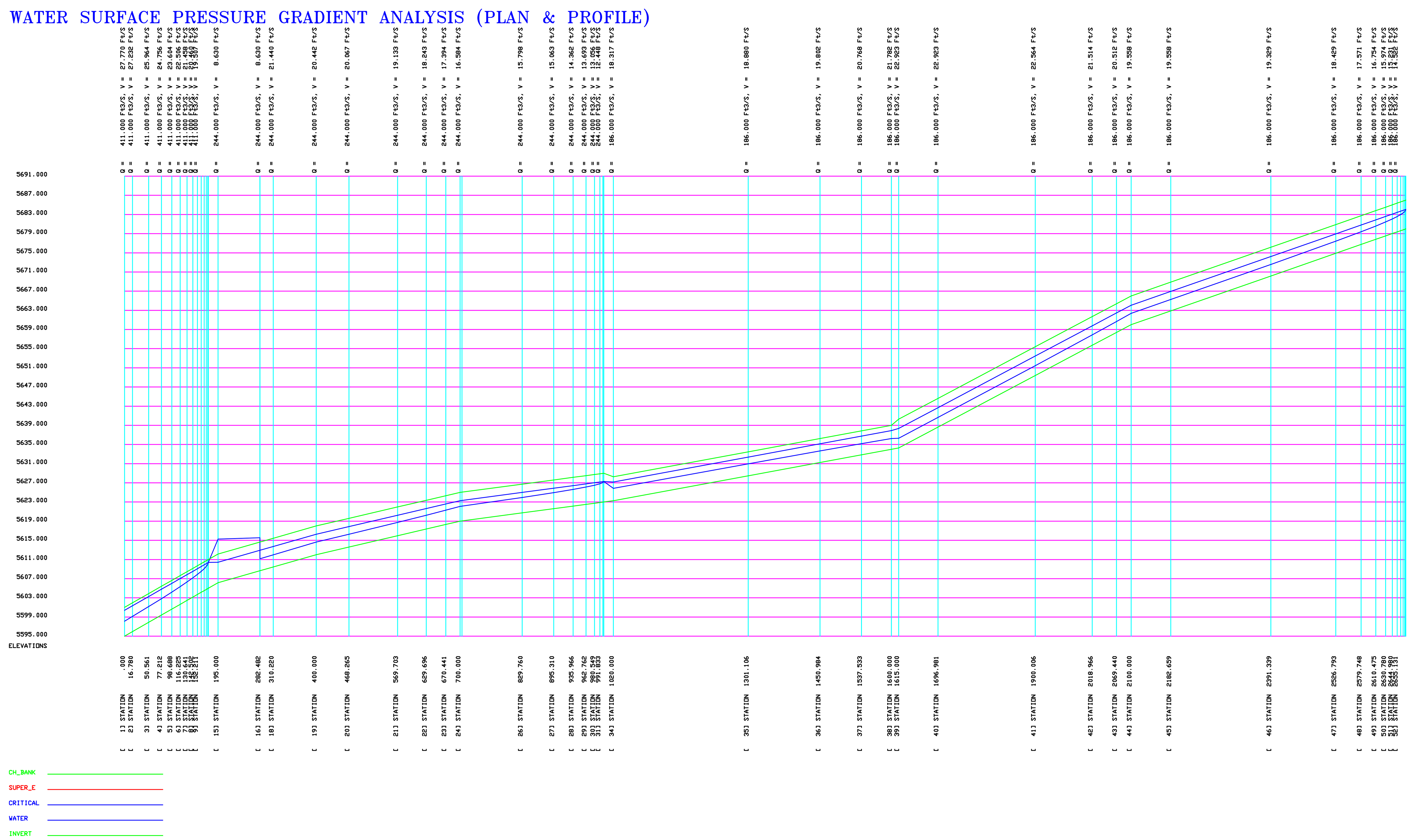
Water Surface Pressure Gradient for Windows (WSPGW) Analysis Exhibits

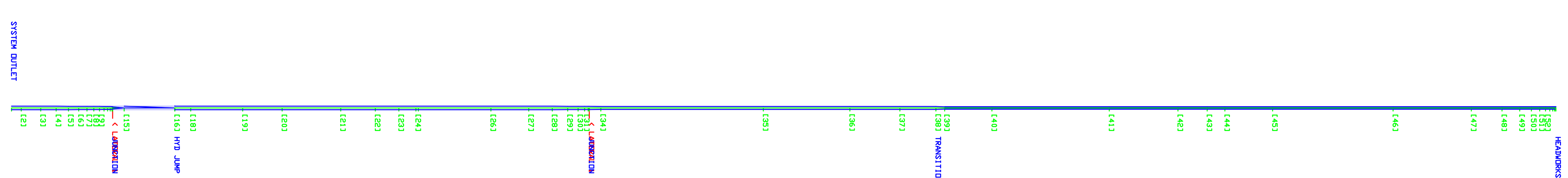
EXHIBIT "G-1"

PROPOSED OPTION NO. 1 - PRIMARY STORM DRAIN

WSPGW HGL ANALYSIS

(EXHIBIT N.T.S.)





Program Package Serial Number: 1521   Date: 7- 7-2009 Time: 2:18:16 File:opt1wsw.WSW

Option 1
Main Channel N. HWY 18
Pipe To Box

[No.]	TYPE OPERATION	STATION (FT)	INV ELEV (FT)	WATER LEVEL (FT)	CHAN HT (FT)	TYPE CHANNEL	'N'	#PIER/PIP	FLOW RATE (CFS)	VELOCITY (FT/S)	TOP WIDTH (FT)	CHAN WDTH (FT)	PIER WIDTH (FT)	ZL	ZR	SUPEL RT B (FT)	SUPEL LT B (FT)	CRIT DPTH (FT)	RADIUS/<PT (FT DR <)	RMKS
[1]	SYSTEM OUTLET	.000	5595.000	3.110	6.000	PIPE	.013	1	411.000	27.770	5.996	6.000	.000	.000	.000	.000	.000	5.383	.000	
[2]	REACH	16.780	5595.959	3.159	6.000	PIPE	.013	1	411.000	27.232	5.992	6.000	.000	.000	.000	.000	.000	5.383	.000	
[3]	REACH	50.561	5597.889	3.282	6.000	PIPE	.013	1	411.000	25.964	5.973	6.000	.000	.000	.000	.000	.000	5.383	.000	
[4]	REACH	77.212	5599.412	3.412	6.000	PIPE	.013	1	411.000	24.756	5.943	6.000	.000	.000	.000	.000	.000	5.383	.000	
[5]	REACH	98.688	5600.639	3.549	6.000	PIPE	.013	1	411.000	23.604	5.899	6.000	.000	.000	.000	.000	.000	5.383	.000	
[6]	REACH	116.225	5601.641	3.694	6.000	PIPE	.013	1	411.000	22.506	5.837	6.000	.000	.000	.000	.000	.000	5.383	.000	
[7]	REACH	130.641	5602.465	3.847	6.000	PIPE	.013	1	411.000	21.458	5.756	6.000	.000	.000	.000	.000	.000	5.383	.000	
[8]	REACH	142.502	5603.143	4.011	6.000	PIPE	.013	1	411.000	20.460	5.649	6.000	.000	.000	.000	.000	.000	5.383	.000	
[9]	REACH	152.211	5603.697	4.187	6.000	PIPE	.013	1	411.000	19.507	5.510	6.000	.000	.000	.000	.000	.000	5.383	.000	
[10]	REACH	160.054	5604.146	4.376	6.000	PIPE	.013	1	411.000	18.600	5.331	6.000	.000	.000	.000	.000	.000	5.383	.000	
[11]	REACH	166.222	5604.498	4.584	6.000	PIPE	.013	1	411.000	17.734	5.096	6.000	.000	.000	.000	.000	.000	5.383	.000	
[12]	REACH	170.819	5604.761	4.812	6.000	PIPE	.013	1	411.000	16.909	4.782	6.000	.000	.000	.000	.000	.000	5.383	.000	
[13]	REACH	173.831	5604.933	5.072	6.000	PIPE	.013	1	411.000	16.122	4.339	6.000	.000	.000	.000	.000	.000	5.383	.000	
[14]	REACH	175.000	5605.000	5.383	6.000	PIPE	.013	1	411.000	15.370	3.645	6.000	.000	.000	.000	.000	.000	5.383	.000	
[15]	JUNCTION	195.000	5606.143	9.111	6.000	PIPE	.013	1	244.000	8.630	.000	6.000	.000	.000	.000	.000	.000	4.278	.000	
[16]	HYD JUMP	282.482	5608.643	6.899	6.000	PIPE	.013	1	244.000	8.630	.000	6.000	.000	.000	.000	.000	.000	4.278	.000	HYD JUMP
[17]	REACH	282.482	5608.643	2.521	6.000	PIPE	.013	1	244.000	21.641	5.923	6.000	.000	.000	.000	.000	.000	4.278	.000	
[18]	REACH	310.220	5609.435	2.539	6.000	PIPE	.013	1	244.000	21.440	5.929	6.000	.000	.000	.000	.000	.000	4.278	.000	
[19]	REACH	400.000	5612.000	2.632	6.000	PIPE	.013	1	244.000	20.442	5.955	6.000	.000	.000	.000	.000	.000	4.278	.000	
[20]	REACH	468.265	5613.593	2.670	6.000	PIPE	.013	1	244.000	20.067	5.964	6.000	.000	.000	.000	.000	.000	4.278	.000	
[21]	REACH	569.703	5615.959	2.770	6.000	PIPE	.013	1	244.000	19.133	5.982	6.000	.000	.000	.000	.000	.000	4.278	.000	
[22]	REACH	629.696	5617.359	2.873	6.000	PIPE	.013	1	244.000	18.243	5.995	6.000	.000	.000	.000	.000	.000	4.278	.000	
[23]	REACH	670.441	5618.310	2.982	6.000	PIPE	.013	1	244.000	17.394	6.000	6.000	.000	.000	.000	.000	.000	4.278	.000	
[24]	REACH	700.000	5619.000	3.096	6.000	PIPE	.013	1	244.000	16.584	5.997	6.000	.000	.000	.000	.000	.000	4.278	.000	
[25]	REACH	704.010	5619.053	3.098	6.000	PIPE	.013	1	244.000	16.569	5.997	6.000	.000	.000	.000	.000	.000	4.278	.000	
[26]	REACH	829.760	5620.730	3.218	6.000	PIPE	.013	1	244.000	15.798	5.984	6.000	.000	.000	.000	.000	.000	4.278	.000	
[27]	REACH	895.310	5621.604	3.344	6.000	PIPE	.013	1	244.000	15.063	5.960	6.000	.000	.000	.000	.000	.000	4.278	.000	
[28]	REACH	935.966	5622.146	3.478	6.000	PIPE	.013	1	244.000	14.362	5.924	6.000	.000	.000	.000	.000	.000	4.278	.000	
[29]	REACH	962.762	5622.503	3.619	6.000	PIPE	.013	1	244.000	13.693	5.871	6.000	.000	.000	.000	.000	.000	4.278	.000	
[30]	REACH	980.549	5622.741	3.767	6.000	PIPE	.013	1	244.000	13.056	5.801	6.000	.000	.000	.000	.000	.000	4.278	.000	
[31]	REACH	991.833	5622.891	3.925	6.000	PIPE	.013	1	244.000	12.448	5.707	6.000	.000	.000	.000	.000	.000	4.278	.000	
[32]	REACH	998.037	5622.974	4.094	6.000	PIPE	.013	1	244.000	11.869	5.586	6.000	.000	.000	.000	.000	.000	4.278	.000	
[33]	REACH	1000.000	5623.000	4.278	6.000	PIPE	.013	1	244.000	11.314	5.428	6.000	.000	.000	.000	.000	.000	4.278	.000	
[34]	JUNCTION	1020.000	5623.268	2.567	5.000	PIPE	.013	1	186.000	18.317	4.998	5.000	.000	.000	.000	.000	.000	3.902	.000	
[35]	REACH	1301.106	5628.469	2.507	5.000	PIPE	.013	1	186.000	18.880	5.000	5.000	.000	.000	.000	.000	.000	3.902	.000	
[36]	REACH	1450.984	5631.243	2.415	5.000	PIPE	.013	1	186.000	19.802	4.997	5.000	.000	.000	.000	.000	.000	3.902	.000	
[37]	REACH	1537.533	5632.844	2.328	5.000	PIPE	.013	1	186.000	20.768	4.988	5.000	.000	.000	.000	.000	.000	3.902	.000	
[38]	REACH	1600.000	5634.000	2.244	5.000	PIPE	.015	1	186.000	21.782	4.974	5.000	.000	.000	.000	.000	.000	3.902	.000	
[39]	TRANSITION	1615.000	5634.276	2.029	6.000	BOX	.015	0	186.000	22.923	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[40]	REACH	1696.981	5638.625	2.028	6.000	BOX	.015	0	186.000	22.923	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[41]	REACH	1900.006	5649.393	2.061	6.000	BOX	.015	0	186.000	22.564	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[42]	REACH	2018.966	5655.702	2.162	6.000	BOX	.015	0	186.000	21.514	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[43]	REACH	2069.440	5658.379	2.267	6.000	BOX	.015	0	186.000	20.512	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[44]	REACH	2100.000	5660.000	2.378	6.000	BOX	.015	0	186.000	19.558	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[45]	REACH	2182.659	5662.886	2.377	6.000	BOX	.015	0	186.000	19.558	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[46]	REACH	2391.339	5670.169	2.406	6.000	BOX	.015	0	186.000	19.329	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[47]	REACH	2526.793	5674.897	2.523	6.000	BOX	.015	0	186.000	18.429	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[48]	REACH	2579.748	5676.746	2.646	6.000	BOX	.015	0	186.000	17.571	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[49]	REACH	2610.475	5677.818	2.775	6.000	BOX	.015	0	186.000	16.754	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[50]	REACH	2630.780	5678.526	2.912	6.000	BOX	.015	0	186.000	15.974	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[51]	REACH	2644.980	5679.022	3.053	6.000	BOX	.015	0	186.000	15.231	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[52]	REACH	2655.131	5679.376	3.203	6.000	BOX	.015	0	186.000	14.522	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[53]	REACH	2662.369	5679.629	3.358	6.000	BOX	.015	0	186.000	13.846	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[54]	REACH	2667.389	5679.804	3.523	6.000	BOX	.015	0	186.000	13.202	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[55]	REACH	2670.642	5679.918	3.694	6.000	BOX	.015	0	186.000	12.587	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[56]	REACH	2672.438	5679.980	3.875	6.000	BOX	.015	0	186.000	12.002	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	
[57]	HEADWORKS	2673.000	5680.000	4.064	6.000	BOX	.015	0	186.000	11.440	4.000	4.000	.000	.000	.000	.000	.000	4.065	.000	

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Software for Engineers, By Engineers

PROPOSED OPTION NO. 1 - PRIMARY SD
WSPGW HGL ANALYSIS
IN THE COUNTY OF SAN BERNARDINO, CA

JOSEPH E. BONADIMAN & ASSOCIATES, INC.
CIVIL ENGINEERING G.I.S. LAND SURVEYING
(909)885-3806 ~ Fax (909)381-1721

HILLTOP GEOTECHNICAL INCORPORATED

Michael Brandman Associates

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT 1939 CALIFORNIA

BY	MARK	REVISION DESCRIPTION	DATE
JDN	1	ENTIRE EXHIBIT	07-27-09

PREPARED FOR:	SBCFCD
JOB NO:	093458
PREPARED BY:	DWJ
CHECKED BY:	DWJ

NOTE: *Joseph E. Bonadiman & Associates, Inc. does not warranty the accuracy of the G.I.S. data presented in this Exhibit. This Exhibit may contain information copyrighted to the County of San Bernardino.*

PROPOSED OPTION NO. 1 - PRIMARY SD
WSPGW HGL ANALYSIS
IN THE COUNTY OF SAN BERNARDINO, CA

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 07-27-09

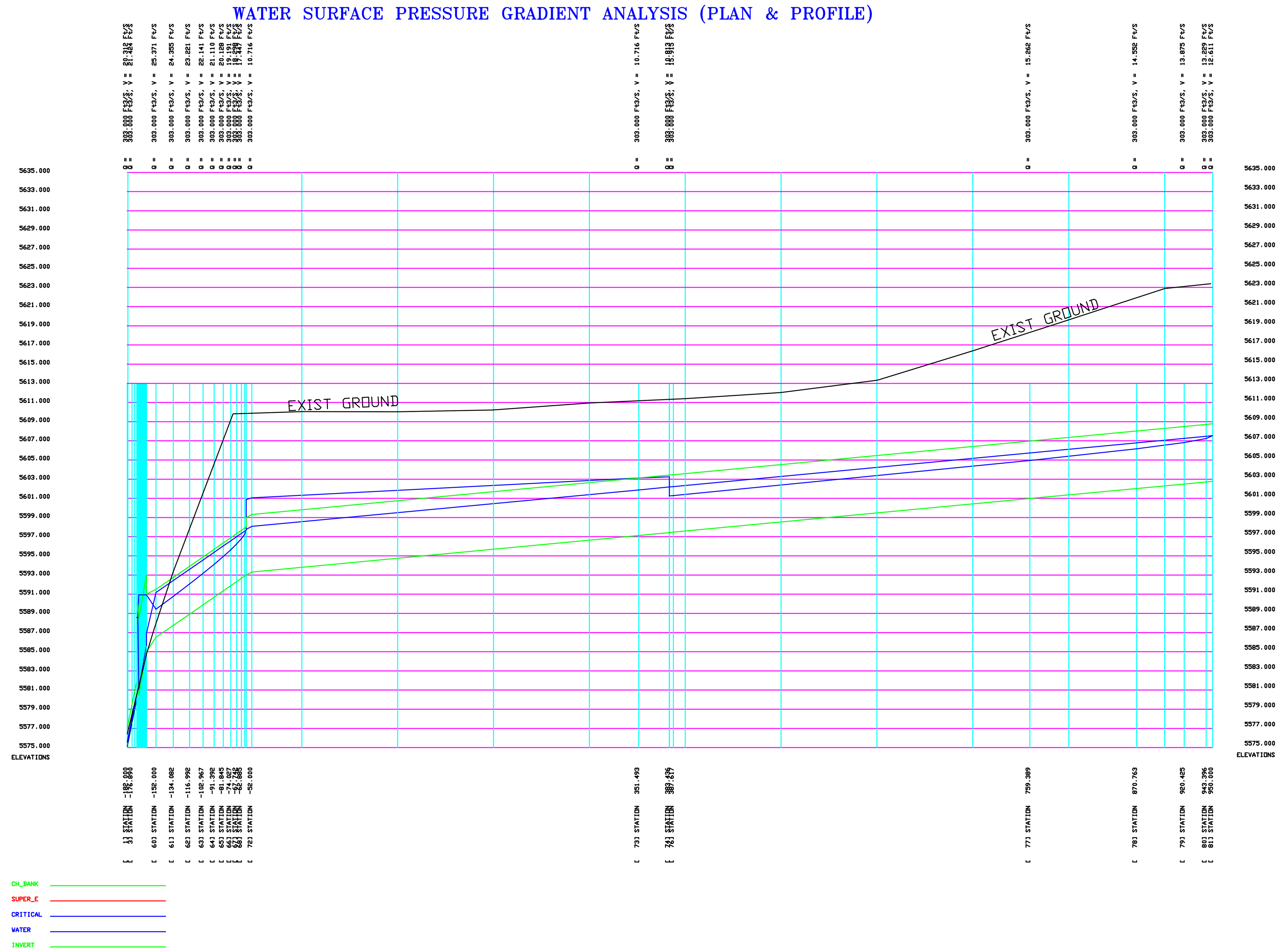
G-1

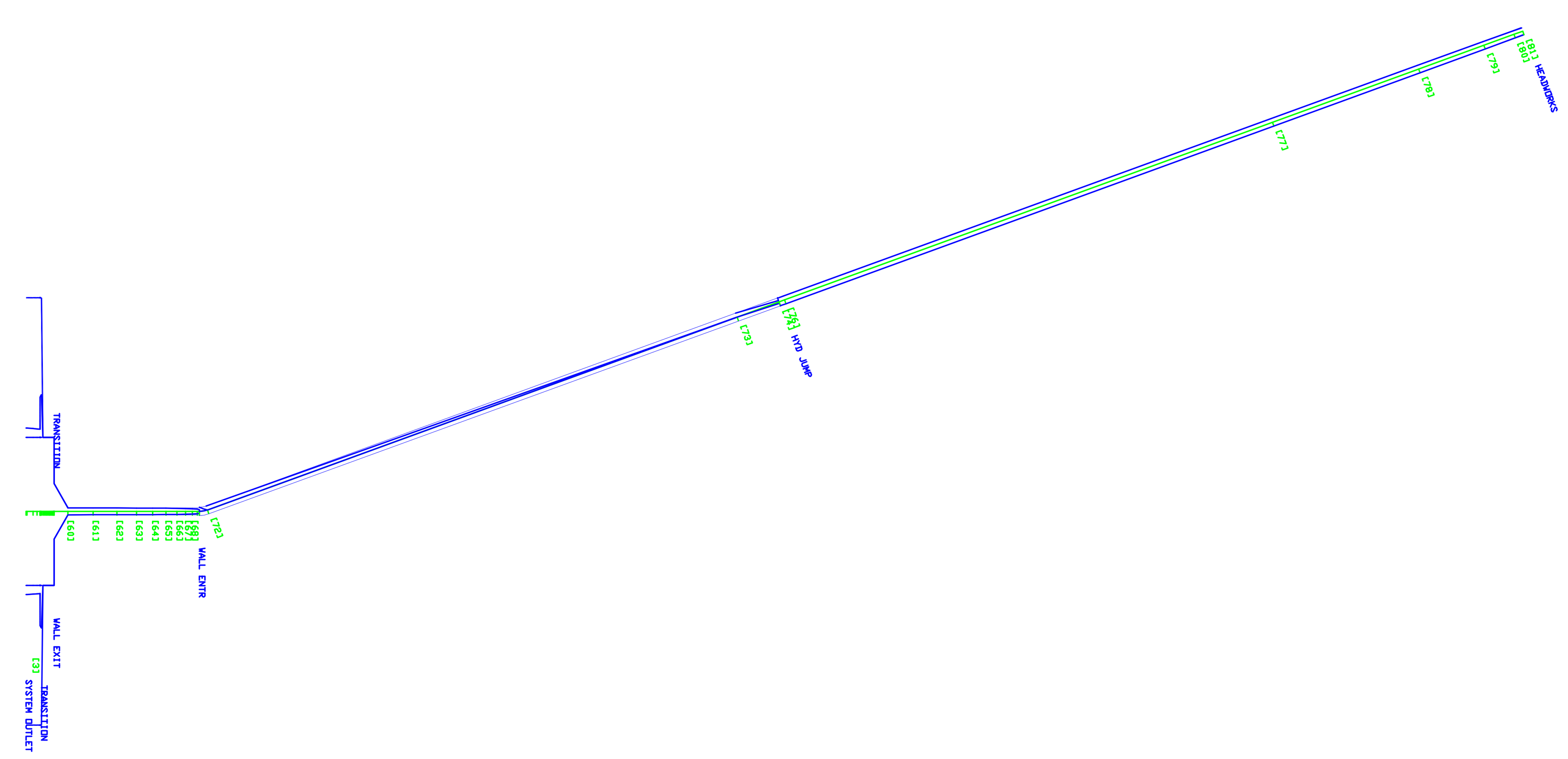
SHEET: 1 OF 1

EXHIBIT "G-2"

PROPOSED OPTION NO. 2 - PRIMARY STORM DRAIN
WSPGW HGL ANALYSIS

(EXHIBIT N.T.S.)





Program Package Serial Number: 1521

Date: 6-22-2009 Time:10:52:48 File:outlet.WSW

Rimforest Option 2 with Weir Wall Outlet
Weep Holes ignored in analysis

[No.]	TYPE OPERATION	STATION (FT)	INV ELEV (FT)	WATER LEVEL (FT)	CHAN HT (FT)	TYPE CHANNEL	'N'	#PIER/PIP	FLOW RATE (CFS)	VELOCITY (FT/S)	TOP WIDTH (FT)	CHAN WDTH (FT)	PIER WIDTH (FT)	ZL	ZR	SUPEL RT B (FT)	SUPEL LT B (FT)	CRIT DPTH (FT)	RADIUS/<PT (FT DR < >)	RMKS
[1]	SYSTEM OUTLET	-182.000	5575.000	.132	2.000	TRAPEZOIDAL	.014	0	303.000	20.312	119.245	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[2]	REACH	-181.318	5575.341	.132	2.000	TRAPEZOIDAL	.014	0	303.000	20.427	119.175	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[3]	REACH	-176.890	5577.555	.126	2.000	TRAPEZOIDAL	.014	0	303.000	21.424	118.594	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[4]	REACH	-174.075	5578.962	.121	2.000	TRAPEZOIDAL	.014	0	303.000	22.469	118.038	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[5]	REACH	-172.000	5580.001	.116	2.000	TRAPEZOIDAL	.014	0	303.000	23.566	117.505	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[6]	REACH	-171.993	5580.568	.119	2.000	TRAPEZOIDAL	.014	0	303.000	22.831	117.857	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[7]	REACH	-171.984	5581.306	.124	2.000	TRAPEZOIDAL	.014	0	303.000	21.768	118.405	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[8]	REACH	-171.975	5581.975	.130	2.000	TRAPEZOIDAL	.014	0	303.000	20.755	118.978	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[9]	REACH	-171.968	5582.582	.135	2.000	TRAPEZOIDAL	.014	0	303.000	19.790	119.575	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[10]	REACH	-171.961	5583.131	.142	2.000	TRAPEZOIDAL	.014	0	303.000	18.869	120.199	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[11]	REACH	-171.955	5583.630	.148	2.000	TRAPEZOIDAL	.014	0	303.000	17.990	120.849	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[12]	REACH	-171.949	5584.082	.155	2.000	TRAPEZOIDAL	.014	0	303.000	17.153	121.527	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[13]	REACH	-171.944	5584.492	.162	2.000	TRAPEZOIDAL	.014	0	303.000	16.355	122.235	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[14]	REACH	-171.939	5584.863	.170	2.000	TRAPEZOIDAL	.014	0	303.000	15.594	122.972	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[15]	REACH	-171.935	5585.200	.177	2.000	TRAPEZOIDAL	.014	0	303.000	14.868	123.741	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[16]	REACH	-171.931	5585.504	.186	2.000	TRAPEZOIDAL	.014	0	303.000	14.176	124.542	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[17]	REACH	-171.928	5585.780	.194	2.000	TRAPEZOIDAL	.014	0	303.000	13.517	125.377	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[18]	REACH	-171.925	5586.030	.202	2.000	TRAPEZOIDAL	.014	0	303.000	12.887	126.247	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[19]	REACH	-171.922	5586.255	.212	2.000	TRAPEZOIDAL	.014	0	303.000	12.288	127.152	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[20]	REACH	-171.919	5586.459	.222	2.000	TRAPEZOIDAL	.014	0	303.000	11.716	128.096	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[21]	REACH	-171.917	5586.644	.231	2.000	TRAPEZOIDAL	.014	0	303.000	11.171	129.077	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[22]	REACH	-171.915	5586.810	.241	2.000	TRAPEZOIDAL	.014	0	303.000	10.651	130.099	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[23]	REACH	-171.913	5586.959	.251	2.000	TRAPEZOIDAL	.014	0	303.000	10.155	131.162	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[24]	REACH	-171.911	5587.094	.262	2.000	TRAPEZOIDAL	.014	0	303.000	9.683	132.268	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[25]	REACH	-171.910	5587.215	.274	2.000	TRAPEZOIDAL	.014	0	303.000	9.232	133.417	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[26]	REACH	-171.908	5587.323	.286	2.000	TRAPEZOIDAL	.014	0	303.000	8.802	134.613	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[27]	REACH	-171.907	5587.420	.299	2.000	TRAPEZOIDAL	.014	0	303.000	8.393	135.855	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[28]	REACH	-171.906	5587.507	.311	2.000	TRAPEZOIDAL	.014	0	303.000	8.002	137.146	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[29]	REACH	-171.905	5587.584	.325	2.000	TRAPEZOIDAL	.014	0	303.000	7.630	138.487	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[30]	REACH	-171.904	5587.652	.339	2.000	TRAPEZOIDAL	.014	0	303.000	7.275	139.880	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[31]	REACH	-171.904	5587.712	.353	2.000	TRAPEZOIDAL	.014	0	303.000	6.936	141.326	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[32]	REACH	-171.903	5587.765	.368	2.000	TRAPEZOIDAL	.014	0	303.000	6.613	142.826	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[33]	REACH	-171.902	5587.812	.383	2.000	TRAPEZOIDAL	.014	0	303.000	6.306	144.383	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[34]	REACH	-171.902	5587.852	.399	2.000	TRAPEZOIDAL	.014	0	303.000	6.012	145.999	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[35]	REACH	-171.901	5587.886	.416	2.000	TRAPEZOIDAL	.014	0	303.000	5.732	147.674	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[36]	REACH	-171.901	5587.915	.434	2.000	TRAPEZOIDAL	.014	0	303.000	5.466	149.411	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[37]	REACH	-171.901	5587.938	.453	2.000	TRAPEZOIDAL	.014	0	303.000	5.211	151.211	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[38]	REACH	-171.900	5587.958	.471	2.000	TRAPEZOIDAL	.014	0	303.000	4.969	153.076	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[39]	REACH	-171.900	5587.974	.490	2.000	TRAPEZOIDAL	.014	0	303.000	4.737	155.009	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[40]	REACH	-171.900	5587.985	.511	2.000	TRAPEZOIDAL	.014	0	303.000	4.517	157.010	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[41]	REACH	-171.900	5587.994	.530	2.000	TRAPEZOIDAL	.014	0	303.000	4.307	159.081	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[42]	REACH	-171.900	5587.999	.552	2.000	TRAPEZOIDAL	.014	0	303.000	4.106	161.225	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[43]	REACH	-171.900	5588.000	.576	2.000	TRAPEZOIDAL	.014	0	303.000	3.907	163.544	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[44]	REACH	-171.242	5588.000	.604	2.000	TRAPEZOIDAL	.014	0	303.000	3.682	166.421	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[45]	REACH	-171.000	5588.000	.609	2.000	TRAPEZOIDAL	.500	0	303.000	3.647	166.888	106.000	.000	50.000	50.000	.000	.000	.575	.000	
[46]	TRANSITION	-169.900	5580.500	10.435	8.000	RECTANGULAR	.014	0	303.000	.274	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[47]	REACH	-169.048	5580.985	9.950	8.000	RECTANGULAR	.014	0	303.000	.287	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[48]	REACH	-168.235	5581.448	9.487	8.000	RECTANGULAR	.014	0	303.000	.301	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[49]	REACH	-167.460	5581.890	9.045	8.000	RECTANGULAR	.014	0	303.000	.316	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[50]	REACH	-166.721	5582.311	8.624	8.000	RECTANGULAR	.014	0	303.000	.331	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[51]	REACH	-166.017	5582.712	8.223	8.000	RECTANGULAR	.014	0	303.000	.348	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[52]	REACH	-165.346	5583.094	7.840	8.000	RECTANGULAR	.014	0	303.000	.365	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[53]	REACH	-164.706	5583.459	7.475	8.000	RECTANGULAR	.014	0	303.000	.382	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[54]	REACH	-164.095	5583.807	7.127	8.000	RECTANGULAR	.014	0	303.000	.401	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[55]	REACH	-163.513	5584.138	6.796	8.000	RECTANGULAR	.014	0	303.000	.421	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[56]	REACH	-162.959	5584.454	6.480	8.000	RECTANGULAR	.014	0	303.000	.441	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[57]	REACH	-162.430	5584.755	6.178	8.000	RECTANGULAR	.014	0	303.000	.463	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[58]	REACH	-162.000	5585.000	5.933	8.000	RECTANGULAR	.014	0	303.000	.482	106.000	106.000	.000	.000	.000	.000	.000	.633	.000	
[59]	WALL EXIT	-162.000	5585.000	5.933	6.000	RECTANGULAR	.014	1	303.000	2.553	40.000	40.000	20.000	.000	.000	.000	.000	1.924	.000	
[60]	TRANSITION	-152.000	5586.500	2.928	5.000	PIPE	.013	1	303.000	25.371	4.926	5.000	.000	.000	.000	.000	.000	4.680	.000	
[61]	REACH	-134.082	5587.739	3.029	5.000	PIPE	.013	1	303.000	24.355	4.887	5.000	.000	.000	.000	.000	.000	4.680	.000	
[62]	REACH	-116.992	5588.921	3.154	5.000	PIPE	.013	1	303.000	23.221	4.826	5.000	.000	.000	.000	.000	.000	4.680	.000	
[63]	REACH	-102.967	5589.891	3.286	5.000	PIPE	.013	1	303.000	22.141	4.746	5.000	.000	.000	.000	.000	.000	4.680	.000	
[64]	REACH	-91.392	5590.691	3.429	5.000	PIPE	.013	1	303.000	21.110	4.642	5.000	.000	.000	.000	.000	.000	4.680	.000	
[65]	REACH	-81.845	5591.351	3.582	5.000	PIPE	.013	1	303.000	20.128	4.507	5.000	.000	.000	.000	.000	.000	4.680	.000	
[66]	REACH	-74.027	5591.892	3.748	5.000	PIPE	.013	1	303.000	19.191	4.332	5.000	.000	.000	.000	.000	.000	4.680	.000	
[67]	REACH	-67.742	5592.326	3.931	5.000	PIPE	.013	1	303.000	18.298	4.100	5.000	.000	.000	.000	.000	.000	4.680	.000	
[68]	REACH	-62.885	5592.662	4.136	5.000	PIPE	.013	1	303.000	17.447	3.782	5.000	.000	.000	.000	.000	.000	4.680	.000	
[69]	REACH	-59.491	5592.897	4.374	5.000	PIPE	.013	1	303.000	16.635	3.310	5.000	.000	.000	.000	.000	.000	4.680	.000	
[70]	REACH	-58.000	5593.000	4.680	5.000	PIPE	.013	1	303.000	15.859	2.447	5.000	.000	.000	.000	.000	.000	4.680	17.189	
[71]	WALL ENTR	-58.000	5593.000	7.863	6.000	PIPE	.013	1	303.000	10.716	.000	6.000	.000	.000	.000	.000	.000	4.754	17.189	
[72]	REACH	-52.000	5593.317	7.745	6.000	PIPE	.013	1	303.000	10.716	.000	6.000	.000	.000	.000	.000	.000	4.754	.000	
[73]	REACH	351.493	5597.127	6.000	6.000	PIPE	.013	1	303.000	10.716	.000	6.000	.000	.000	.000	.000	.000	4.754	.000	
[74]	HYD JUMP	383.436	5597.429	5.817	6.000	PIPE	.013	1	303.000	10.813	2.063	6.000	.000	.000	.000	.000	.000	4.754	.000	HYD JUMP
[75]	REACH	383.436	5597.429	3.828	6.000	PIPE	.013	1	303.000	15.915	5.767	6.000	.000	.000	.000	.000	.000	4.754	.000	
[76]	REACH	387.617	5597.468	3.828	6.000	PIPE	.013	1	303.000	15.915	5.767	6.000	.000	.000	.000	.000	.000	4.754	.000	
[77]	REACH	759.389	5600.979	3.970	6.000	PIPE	.013	1	303.000	15.262	5.678	6.000	.000	.000	.000	.000	.000	4.754	.000	
[78]	REACH	870.763	5602.031	4.142	6.000	PIPE	.013	1	303.000	14.552	5.548	6.000	.000	.000	.000	.000	.000	4.754	.000	
[79]	REACH	920.425	5602.500	4.329	6.000	PIPE	.013	1	303.000	13.875	5.380	6.000	.000	.000	.000	.000	.000	4.754	.000	
[80]	REACH	943.396	5602.717	4.531	6.000	PIPE	.013	1	303.000	13.229	5.161	6.000	.000	.000	.000	.000	.000	4.754	.000	
[81]	HEADWORKS	950.000	5602.780	4.754	6.000	PIPE	.013	1	303.000	12.611	4.868	6.000	.000	.000	.000	.000	.000	4.754	.000	

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PROPOSED OPTION NO. 2 - PRIMARY SD
WSPGW HGL ANALYSIS
IN THE COUNTY OF SAN BERNARDINO, CA

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HILLTOP GEOTECHNICAL INCORPORATED

Michael Brandman Associates

SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT 1939 CALIFORNIA

BY	MARK	REVISION DESCRIPTION	DATE
JDN	1	ENTIRE EXHIBIT	07-27-09

PREPARED FOR:	SBCFCD
JOB NO:	093458
PREPARED BY:	DWJ
CHECKED BY:	DWJ

NOTE: *Joseph E. Bonadiman & Associates, Inc. does not warranty the accuracy of the G.I.S. data presented in this Exhibit. This Exhibit may contain information copyrighted to the County of San Bernardino.*

PROPOSED OPTION NO. 2 - PRIMARY SD
WSPGW HGL ANALYSIS
IN THE COUNTY OF SAN BERNARDINO, CA

DISREGARD PRINTS BEARING EARLIER REVISION DATES → 07-27-09

G-2

SHEET: 1 OF 1