Sewer Area Study
ESTU2016000099
PC 12338AS
SAS17-00001

Tract Map No. 74650

Prepared by:

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February 2018

SEWER AREA STUDY
CONCEPTUAL APPROVAL OF Q ONLY

APPROVED BY:_____RCE NO._____DATE 03/12/2018

CHECKED BY:_____DATE 03/12/2018

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS
LAND DEVELOPMENT DIVISION

THIS CONCEPTUAL APPROVAL IS CONTINGENT UPON OUTLET APPROVAL FROM CITY OF SANTA CLARITA.

PLEASE NOTE THAT THE COUNTY OF LOS ANGELES ONLY REVIEWED AND APPROVED DISCHARGES AND CAPACITIES FROM FACILITIES WITHIN UNINCORPORATED AREAS. SEWER CAPACITIES FOR EXISTING SEWER LINES LYING WITHIN CITY JURISDICTION SHALL BE CHECKED BY SAID CITY.

REGISTERED PROFESSIONAL ENGINEER
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EXP. 06/30/18
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STATE OF CALIFORNIA

Imad Aboujawdah, P.E. — Date 3/8/18

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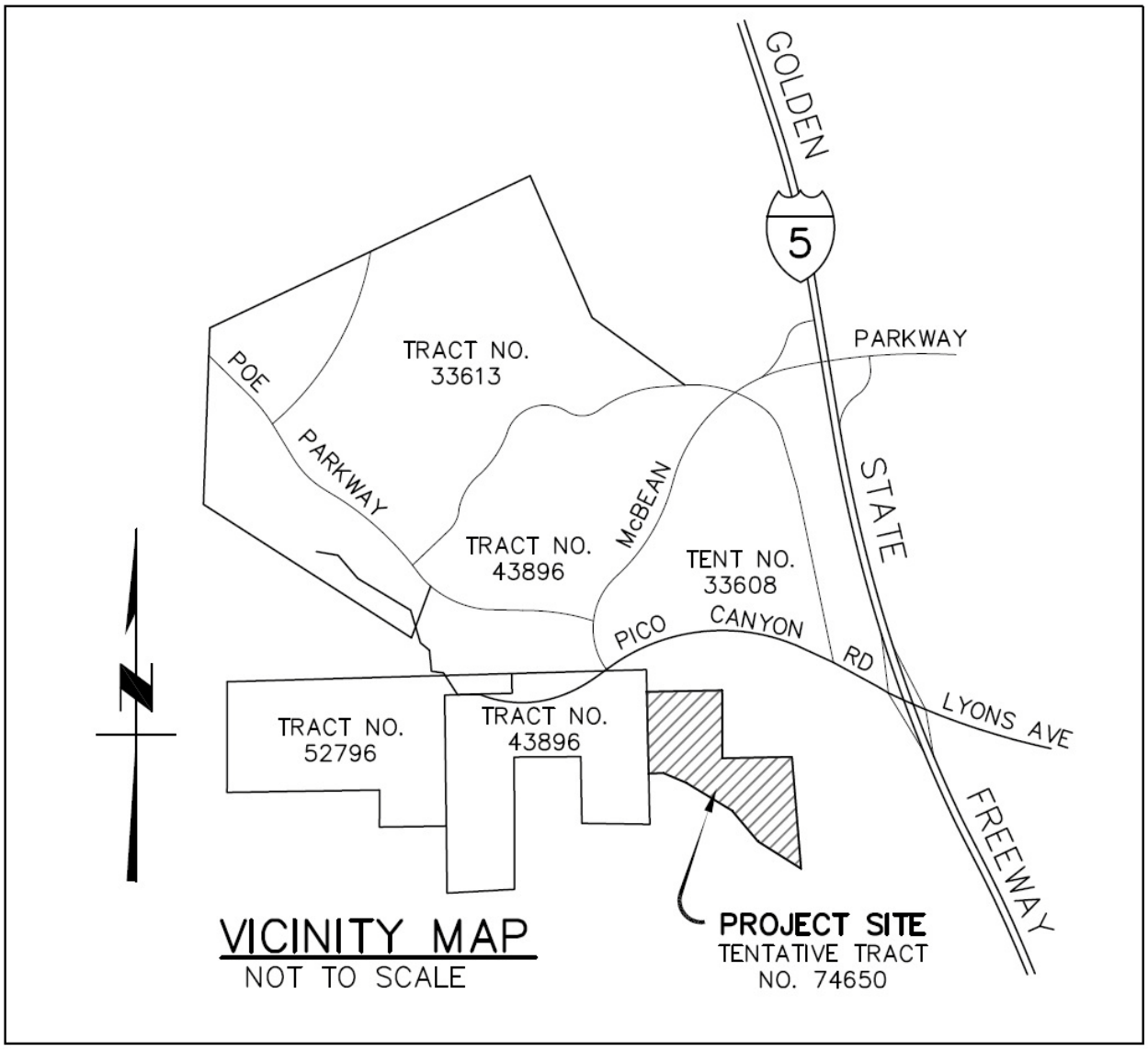
VICINITY MAP



INTRODUCTION

Civil Design and Drafting Inc., has performed a sewer area study for the proposed development (Tract No. 74650) located in the unincorporated area of Los Angeles County, east of Magnolia Lane and Autumn Place. The site is zoned A-2-2 per Los Angeles County GIS-NET3 – Planning and Zoning. The purpose of this study is to provide capacity analysis for the proposed sewer line that will convey the flow from the proposed project through the existing county sewer line at Magnolia Lane. The existing county sewer line capacity from the connection will join the existing sewer line of Santa Clarita at the city boundary. The city of Santa Clarita will continue the direction of the flow to the sanitation district trunk sewer located in Orchard Village Road and Mill Valley Street. This study will also determine the pipe size necessary for sewer line extension and any upgrade of existing sewer lines.

SITE DESCRIPTION

The proposed site is located in the unincorporated area of Los Angeles County, at the east corner of Magnolia Lane and Autumn Place. The project consists of 37 single family dwellings under Vesting Tentative Tract Map No. 74650.

PROJECT DESCRIPTION

The proposed development consists of single family residential lots and encompasses a total of 37 units. The site also includes open spaces, hardscape, and landscape areas.

SEWER PIPE CAPACITY ANALYSIS

The proposed sewer pipes in Magnolia Lane, “A” Street, “B” Street, and “C” Street were designed using S-C4 standard per County of Los Angeles. The project consists of 37 units and generates a 0.037 cfs. This flow was used to calculate the existing site sewer discharge.

The future development – Sub Area 2B-2O, 2R-2Y, & 4A-4B as seen on Sewer Area Study Map, consists of 680.20 acres and generates a 0.399 cfs.

The existing flow beginning at Magnolia Lane in Los Angeles County and ending at the City of Santa Clarita Boundary have been calculated using Kutter’s Formula per County of Los Angeles. Tributary areas shown on the map have been determined by using as built data from the County of Los Angeles. The capacity of the entire sewer line within the project tributary area was analyzed per County of Los Angeles standard S-C4 for a maximum design depth of half full. The zoning map for each of the tributary

areas was found in GIS-NET3 from the Department of Regional Planning-County of Los Angeles. See Table 1 below for the summary of the total flow of the existing, proposed, and future development.

Table 1: Total flow of the existing, proposed, and future development

SUMMARY		Sub Area	Area		Calculated Flow (cfs)	Approved Q (cfs)
LA County	Proposed	1A	37	DU	0.037	6.238 from LA County
	Future	2B - 2O, 2R-2Y, & 4A- 4B	680.20	Acres	0.399	
	Existing	1B, 2P, 2Q, 3A - 3C, 4C, 5A, 7A -7C, 8A - 8E, 9A, & 10A – 10Z	212.19	Acres	5.801	
			2766	DU		
			1784	Students		
City of Santa Clarita	Existing	11A-11B, 12A, 13A-13B, 14A, 15A-15E, 16A-16B, & 17A-17E	138.39	Acres	1.823	1.823 from City of Santa Clarita
			1558	DU		
			2097	Students		

METHODOLOGY

Kutter's formula was used in the analysis of the pipe segments with the corresponding proposed slopes. A value of n=0.013 was used in the analysis and a spreadsheet program was used to run the flow depth for circular pipes. This program was obtained from the County program library.

CONCLUSION

Based on the sewer area study prepared for the project, the existing sewer line was analyzed to determine the minimum line capacity of the proposed development. The existing line was divided into 17 junctions, and the flow rate of each was calculated based on the tributary areas coming into each reach. This sewer area study shows the mitigation in Summary Table 2 and the Sewer Area Study Map (Please see Section and Map). Based on the results in Summary Table 2, the mitigation will require the downstream sewer lines to be upgraded from manhole # 17-16-14-13-12-11-10-9-7-2-1 and 171-169.

SECTION

SUMMARY TABLE 2: CAPACITY OF EXISTING PIPES FOR FULL TRIBUTARY DEVELOPMENT AREA (INCLUDING EXISTING, PROPOSED, AND FUTURE DEVELOPMENT)

Street Name	Segment		Pipe		*Capacity (cfs)		Area No.	Area (Acres, DU, Student)	Zoning Coeff.	Calculated Flow (cfs)	** Cumulative Calculated Flow (cfs)	PC or CI Construction Plan #	RESULTS	% Full
	M.H. #	M.H. #	Size (in)	Slope (%)	1/2 Full (<15")	3/4 Full (≥15")								Comulative Flow/ Capacity
LA COUNTY	6	5	8	2.00										
	5	4	8	2.00										
	4	3	8	2.00										
	3	2	8	0.40										
	2	1	8	0.40										
	1	597	8	0.40	0.35		1A	37	0.0010	0.037	0.037		OK	10.6%
	597	596	8	1.88	0.76						0.037	P.C. 11544	OK	4.9%
	596	595	8	0.40	0.35						0.037	P.C. 11544	OK	10.6%
	595	594	8	0.56	0.41		1B	50	0.0010	0.050	0.087	P.C. 11544	OK	21.1%
	594	593	8	36.0	3.32						0.087	P.C. 11544	OK	2.6%
	593	592	8	5.40	1.29						0.087	P.C. 11545	OK	6.8%
	592	575	8	7.00	1.47						0.087	P.C. 11544	OK	5.9%
							2A	117.50	0.0000	0.000	0.087			
							2B	12.45	0.0005	0.006	0.093			
							2C	11.74	0.0005	0.006	0.099			
							2D	57.00	0.0005	0.029	0.128			
							2E	95.41	0.0005	0.048	0.175			
							2F	10.01	0.0005	0.005	0.180			
							2G	10.00	0.0005	0.005	0.185			
							2H	40.00	0.0005	0.020	0.205			
							2I	20.00	0.0005	0.010	0.215			
							2J	15.00	0.0005	0.008	0.223			
							2K	5.00	0.0005	0.003	0.225			
							2L	14.86	0.0005	0.007	0.233			
							2M	33.00	0.0005	0.017	0.249			
							2N	40.00	0.0005	0.020	0.269			
							2O	39.53	0.0005	0.020	0.289			
							2P	19	0.0010	0.019	0.308			
							2R	9.27	0.0005	0.005	0.313			
							2S	38.00	0.0005	0.019	0.332			
							2T	18.92	0.0005	0.009	0.341			
							2U	18.92	0.0005	0.009	0.351			
							2V	11.30	0.0005	0.006	0.356			

SUMMARY TABLE 2: CAPACITY OF EXISTING PIPES FOR FULL TRIBUTARY DEVELOPMENT AREA (INCLUDING EXISTING, PROPOSED, AND FUTURE DEVELOPMENT)

Street Name	Segment		Pipe		*Capacity (cfs)		Area No.	Area (Acres, DU, Student)	Zoning Coeff.	Calculated Flow (cfs)	** Cumulative Calculated Flow (cfs)	PC or CI Construction Plan #	RESULTS	% Full
	M.H. #	M.H. #	Size (in)	Slope (%)	1/2 Full (<15")	3/4 Full (≥15")								Comulative Flow/ Capacity
LA COUNTY							2X	9.49	0.0005	0.005	0.361			
							2Y	10.66	0.0005	0.005	0.366			
	575	574	15	7.00		8.24	2Q	231.00	0.0010	0.231	0.597	P.C. 11544	OK	7.2%
	574	157	15	0.52		4.19					0.597	P.C. 11464	OK	14.3%
							3A	243	0.0010	0.243	0.840			
							3B	173	0.0010	0.173	1.013			
	157	158	18	0.40		6.04	3C	195	0.0010	0.195	1.208	P.C. 10462-A	OK	20.0%
	158	160	18	0.52		6.90					1.208	P.C. 10462-A	OK	17.5%
	160	163	15	1.20		6.38					1.208	P.C. 10462-A	OK	18.9%
	163	650	15	1.80		7.82					1.208	P.C. 10462-A	OK	15.5%
							4A	9.40	0.0005	0.005	1.213			
							4B	22.40	0.0060	0.134	1.347			
	650	165	15	2.40		9.03	4C	10.34	0.0030	0.031	1.378	P.C. 10462-A	OK	15.3%
	165	166	15	1.40		6.89	5A	969	0.000039	0.037	1.416	P.C. 10462-A	OK	20.5%
	166	167	15	1.30		6.64					1.416	P.C. 10462-A	OK	21.3%
	167	168	12	4.36		6.60					1.416	P.C. 10462-A	OK	39.8%
	168	169	15	1.00		5.82					1.416	P.C. 10462-A	OK	24.3%
	169	170	15	1.60		7.37					1.416	P.C. 10462-A	OK	19.2%
							7A	5.67	0.010	0.057	1.473			
							7B	11.00	0.032	0.352	1.825			
	170	171	15	1.60		7.37	7C	14.32	0.015	0.215	2.039	P.C. 10462-A	OK	27.7%
	171	35	15	2.92		9.96					2.039	P.C. 10462-A	OK	20.5%
							8A	27.33	0.012	0.328	2.367			
							8B	11.08	0.015	0.166	2.534			
							8C	3.17	0.015	0.048	2.581			
							8D	2.60	0.015	0.039	2.620			
	35	26	18	0.40		6.04	8E	4.67	0.015	0.070	2.690	P.C. 10462-A	OK	44.5%
	26	365	21	0.81		13.10	9A	9.20	0.032	0.294	2.985	P.C. 10445	OK	22.8%
							10A	138	0.001	0.138	3.123			
							10B	815	0.000039	0.032	3.154			
							10C	4.07	0.016	0.065	3.219			
							10D	4.60	0.016	0.074	3.293			
							10E	267	0.001	0.267	3.560			

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Street Name	Segment		Pipe		*Capacity (cfs)		Area No.	Area (Acres, DU, Student)	Zoning Coeff.	Calculated Flow (cfs)	** Cumulative Calculated Flow (cfs)	PC or CI Construction Plan #	RESULTS	% Full
	M.H. #	M.H. #	Size (in)	Slope (%)	1/2 Full (<15")	3/4 Full (≥15")								Comulative Flow/ Capacity
LA COUNTY							10F	80	0.001	0.080	3.640			
							10G	75	0.001	0.075	3.715			
							10H	140	0.001	0.140	3.855			
							10J	184	0.001	0.184	4.039			
							10K	81	0.001	0.081	4.120			
							10L	17.14	0.006	0.103	4.223			
							10M	16.16	0.016	0.259	4.481			
							10N	23.36	0.006	0.140	4.621			
							10P	14.27	0.016	0.228	4.850			
							10R	5.07	0.015	0.076	4.926			
							10S	28.14	0.015	0.422	5.348			
							10T	298	0.001	0.298	5.646			
							10V	178	0.001	0.178	5.824			
							10X	116	0.001	0.116	5.940			
							10Y	171	0.001	0.171	6.111			
	365	367	21	0.81		13.10	10Z	127	0.001	0.127	6.238	P.C. 10445	OK	47.6%
	367	79	18	1.00		9.57					6.238	P.C. 10445	OK	65.1%
CITY OF SANTA CLARITA	79	78	18	1.40		11.33					6.238	P.C. 10445	OK	55.0%
	78	76	18	1.00		9.57					6.238	P.C. 10445	OK	65.1%
	76	17	18	1.12		10.13					6.238	P.C. 10445	OK	61.6%
	17	12	18	0.20		4.26					6.238	P.C. 885401	UPGRADE	146.5%
							11A	73	0.001	0.073	6.311			
	12	7	18	0.20		4.26	11B	126	0.0002	0.025	6.336	P.C. 8769, 8855	UPGRADE	148.8%
	7	2	18	0.32		5.40					6.336	P.C. 876091	UPGRADE	117.3%
	2	1	18	0.24		4.67					6.336	P.C. 876091	UPGRADE	135.7%
	1	171	18	1.36		11.17					6.336	P.C. 876091	OK	56.7%
	171	169	18	0.32		5.40					6.336	P.C. 876091	UPGRADE	117.3%
	169	168	12	8.00	4.82						6.336	P.C. 876091	OK	131.4%
	168	165	15	1.40		6.89	12A	95	0.001	0.095	6.431	P.C. 8583	OK	93.3%
							13A	269	0.001	0.269	6.700			
	165	150	15	1.52		7.18	13B	142	0.001	0.142	6.842	P.C. 8146R01	OK	95.3%
	150	149	18	1.48		11.65					6.842	P.C. 8146R01	OK	58.7%
	149	148	18	1.52		11.81	14A	82	0.001	0.082	6.924	P.C. 8146R01	OK	58.6%

SUMMARY TABLE 2: CAPACITY OF EXISTING PIPES FOR FULL TRIBUTARY DEVELOPMENT AREA (INCLUDING EXISTING, PROPOSED, AND FUTURE DEVELOPMENT)

Street Name	Segment		Pipe		*Capacity (cfs)		Area No.	Area (Acres, DU, Student)	Zoning Coeff.	Calculated Flow (cfs)	** Cumulative Calculated Flow (cfs)	PC or CI Construction Plan #	RESULTS	% Full
	M.H. #	M.H. #	Size (in)	Slope (%)	1/2 Full (<15")	3/4 Full (≥15")								Comulative Flow/ Capacity
CITY OF SANTA CLARITA	148	145	18	1.48		11.65					6.924	P.C. 8146R01	OK	59.4%
	145	144	18	1.52		11.81					6.924	P.C. 8146R01	OK	58.6%
							15A	1471	0.000077	0.114	7.038			
							15B	307	0.001	0.307	7.345			
							15C	6.65	0.015	0.100	7.444			
							15D	2.22	0.001	0.024	7.469			
	144	129	18	1.00		9.57	15E	126	0.001	0.126	7.595	P.C. 8146R01	OK	79.3%
	129	43	18	1.00		9.57	16A	76	0.001	0.076	7.671	P.C. 8146R01	OK	80.1%
	43	32	18	1.00		9.57	16B	626	0.000039	0.024	7.695	P.C. 8146R01	OK	80.4%
	32	31	18	2.12		13.95					7.695	P.C. 8146R01	OK	55.2%
							17A	62	0.001	0.062	7.757			
							17B	70	0.001	0.070	7.827			
							17C	6	0.001	0.006	7.833			
							17D	115	0.001	0.115	7.948			
								6.12	0.0002	0.001	7.949			
	31	TRUNK	18	1.24		10.66	17E	111	0.001	0.111	8.060	P.C. 10445	OK	75.6%

* Calculated using Kutter's Formula with n=0.013 (as in S-C4 graph in PC Procedural Manual)

** Based on current land use and coefficients per LA County, (Attach supporting calculations)

TRACT NO. 74650 - SEWER AREA STUDY
JUNCTION CALCULATION - EXISTING - PROPOSED - FUTURE

				AREA			Zoning Coefficient	Commulative Flow
	Tract #	Sub Area	Zoning	Acres	DU	Students	(cfs/acre)	(cfs)
	74650	1A	A-2-2		37		0.0010	**0.037**
	43896-06	1B	R-A-10000		40		0.0010	0.040
	43896-02		R-A-10000		10		0.0010	0.010
REACH 1								**0.087**
		2A	O-S	117.50			0.0000	0.000
	2826-70	2B	A-2-2	12.45			0.0005	0.006
	2826-9	2C	A-2-2	11.74			0.0005	0.006
	2826-9	2D	A-2-2	57.00			0.0005	0.029
	2826-9	2E	A-2-2	95.41			0.0005	0.048
	2826-20	2F	A-2-2	10.01			0.0005	0.005
	2826-20	2G	A-2-2	10.00			0.0005	0.005
	2826-20	2H	A-2-2	40.00			0.0005	0.020
	2826-20	2I	A-2-2	20.00			0.0005	0.010
	2826-20	2J	A-2-2	15.00			0.0005	0.008
	2826-20	2K	A-2-2	5.00			0.0005	0.003
	2826-20	2L	A-2-2	14.86			0.0005	0.007
	2826-20	2M	A-2-2	33.00			0.0005	0.017
	2826-20	2N	A-2-2	40.00			0.0005	0.020
	2826-20	2O	A-2-2	39.53			0.0005	0.020
	52908	2P	A-2-2		19		0.0010	0.019
	2826-20	2R	A-2-2	9.27			0.0005	0.005
	2826-20	2S	A-2-2	38.00			0.0005	0.019
	2826-20	2T	A-2-2	18.92			0.0005	0.009
	2826-20	2U	A-2-2	18.92			0.0005	0.009
	2826-20	2V	A-2-2	11.30			0.0005	0.006
	2826-97	2X	A-2-2	9.49			0.0005	0.005
	43896-01	2Y	A-2-2	10.66			0.0005	0.005
	43896-02	2Q	R-A-10000		45		0.0010	0.045
	43896-03		R-A-10000		13		0.0010	0.013
	43896-04		R-A-10000		32		0.0010	0.032
	43896-05		R-A-10000		22		0.0010	0.022
	43896-07		R-A-10000		66		0.0010	0.066
	43896		R-A-10000		53		0.0010	0.053
REACH 2								**0.597**
	49761	3A	R-1-5000		243		0.0010	0.243
	49760	3B	R-1-5000		173		0.0010	0.173
	33698	3C	RPD-5000-6U		195		0.0010	0.195
REACH 3								**1.208**
	2826-20	4A	A-2-2	9.40			0.0005	0.005
	2826-20	4B	RPD-5000-6U	22.40			0.006	0.134
	48208	4C	RPD-1-3.3U	10.34			0.003	0.031

TRACT NO. 74650 - SEWER AREA STUDY
JUNCTION CALCULATION - EXISTING - PROPOSED - FUTURE

				AREA			Zoning Coefficient	Commulative Flow
	Tract #	Sub Area	Zoning	Acres	DU	Students	(cfs/acre)	(cfs)
REACH 4								**1.378**
		5A	S			969	0.000039	0.037
REACH 5								**1.416**
REACH 6	NOT IN USE							
	33608-04	7A	RPD-5000-10U	5.67			0.0100	0.057
	33608-03	7B	RPD-5000-32U	11.00			0.0320	0.352
	44806	7C	C-3-DP	14.32			0.0150	0.215
REACH 7								**2.039**
	45638	8A	R-3-DP	27.33			0.0120	0.328
	2826-63	8B	C-3	11.08			0.0150	0.166
	2826-10	8C	C-3	3.17			0.0150	0.048
	2826-63	8D	C-3	2.60			0.0150	0.039
	44806	8E	C-3-DP	4.67			0.0150	0.070
REACH 8								**2.690**
	33608-01	9A	RPD-5000-32U	9.20			0.0320	0.294
REACH 9								**2.985**
	49100	10A	R-1-5000		138		0.0010	0.138
		10B	S			815	0.000039	0.032
	44337	10C	RPD-1-16U	4.07			0.0160	0.065
	44336	10D	RPD-1-16U	4.60			0.0160	0.074
	33698	10E	RPD-5000-6U		267		0.0010	0.267
	44353	10F	RPD-1-16U		80		0.0010	0.080
	44340	10G	RPD-1-28U		75		0.0010	0.075
	33608-02	10H	RPD-5000-26U		140		0.0010	0.140
	49762	10Y	RPD-5000-6U		171		0.0010	0.171
	49099	10J	RPD-1-11U		184		0.0010	0.184
	33698	10K	RPD-5000-6U		81		0.0010	0.081
	33698	10L	RPD-5000-6U	17.14			0.0060	0.103
	44338	10M	RPD-1-16U	16.16			0.0160	0.259
	33698	10N	RPD-5000-6U	23.36			0.0060	0.140
	44339	10P	RPD-1-16U	14.27			0.0160	0.228
	33698	10R	C-3	5.07			0.0150	0.076
	2826-95	10S	C-3-DP	9.04			0.0150	0.136
	2826-96		C-3-DP	19.10			0.0150	0.287
	33613	10T	R-1-5000		298		0.0010	0.298
	49761	10V	R-1-5000		178		0.0010	0.178
	49760	10X	R-1-5000		116		0.0010	0.116
	49099	10Z	RPD-5000-6U		127		0.0010	0.127
REACH 10								**6.238**
	27567	11A	UR3		44		0.0010	0.044
	27288		UR3		29		0.0010	0.029

TRACT NO. 74650 - SEWER AREA STUDY
JUNCTION CALCULATION - EXISTING - PROPOSED - FUTURE

				AREA			Zoning Coefficient	Commulative Flow
	Tract #	Sub Area	Zoning	Acres	DU	Students	(cfs/acre)	(cfs)
		11B	OS	125.62			0.0002	0.025
REACH 11								**6.336**
	27567	12A	UR3		33		0.0010	0.033
	27566		UR3		62		0.0010	0.062
REACH 12								**6.431**
	35768	13A	UR3		32		0.0010	0.032
	27568		UR3		1		0.0010	0.001
	27703		UR3		4		0.0010	0.004
	35769		UR3		232		0.0010	0.232
	27288	13B	UR3		45		0.0010	0.045
	27265		UR3		86		0.0010	0.086
	27266		UR3		11		0.0010	0.011
REACH 13								**6.842**
	27703	14A	UR3		82		0.0010	0.082
REACH 14								**6.924**
		15A	U			1471	0.000077	0.114
	36300	15B	UR5 (18DU/AC)		71		0.0010	0.071
	44427		UR5 (18DU/AC)		236		0.0010	0.236
	PM 83-31-33	15C	CN	0.96			0.0150	0.014
	31116		CN	5.69			0.0150	0.085
	41416	15D	UR3 (11DU/AC)	2.22	24		0.0010	0.024
	28670	15E	UR2		126		0.0010	0.126
REACH 15								**7.595**
	28673	16A	UR2		76		0.0010	0.076
		16B	S			626	0.000039	0.024
REACH 16								**7.695**
	31342	17A	UR2		62		0.0010	0.062
	28672	17B	UR2		70		0.0010	0.070
	28673	17C	UR2		6		0.0010	0.006
	28671	17D	UR2		115		0.0010	0.115
	28671		OS	6.12			0.0002	0.001
	28670	17E	UR2		111		0.0010	0.111
REACH 17	TRUNK							**8.060**

TRACT NO. 74650 - SEWER AREA STUDY
JUNCTION CALCULATION - EXISTING - PROPOSED - FUTURE

Sample Calculation							Zoning	Commulative
		AREA					Coefficient	Flow
Sub Area	Zoning	Acres	DU	Students			(cfs/acre)	(cfs)
2O	A-2-2	39.53			x	0.001/2 =		0.020
2P	A-2-2		19		x	0.001 =		0.019
2Q	R-A-10000		231		x	0.001 =		0.231
3B	R-1-5000		173		x	0.001 =		0.173
3C	RPD-5000-6U		195		x	0.001 =		0.195
4B	RPD-5000-6U	22.40			x	0.006 =		0.134
4C	RPD-1-3.3U	10.34			x	0.003 =		0.031
7A	RPD-5000-10U	5.67			x	0.010 =		0.057
7B	RPD-5000-32U	11.00			x	0.032 =		0.352
7C	C-3-DP	14.32			x	0.015 =		0.215
8B	C-3	11.08			x	0.015 =		0.166
10C	RPD-1-16U	4.07			x	0.016 =		0.065
11A	UR3		73		x	0.001 =		0.073
13A	UR3 (11DU/AC)		269		x	0.001 =		0.269
15B	UR5 (18DU/AC)		307		x	0.001 =		0.307
15C	CN	6.65			x	0.015 =		0.100
15D	UR2		24		x	0.001 =		0.024
17B	S			626	x	S =		0.024

$$S = \frac{10\ \text{gal/student}}{\text{Day}} \times 2.5 \times \frac{1\ \text{cf}}{7.48\ \text{gal}} \times \frac{1\text{day}}{24\text{h} \times 60\text{min} \times 60\text{s}}$$

S = Elemenatary or Jr. High

DU = Dwelling Units

SUMMARY		Sub Area	Area		Calculated Flow (cfs)	Approved Q (cfs)
LA County	Proposed	1A	37	DU	0.037	6.238 from LA County
	Future	2B - 2O, 2R-2Y, & 4A- 4B	680.20	Acres	0.399	
	Existing	1B, 2P, 2Q, 3A - 3C, 4C, 5A, 7A -7C, 8A - 8E, 9A, & 10A – 10Z	212.19	Acres	5.801	
			2766	DU		
			1784	Students		
City of Santa Clarita	Existing	11A-11B, 12A, 13A-13B, 14A, 15A-15E, 16A-16B, & 17A-17E	138.39	Acres	1.823	1.823 from City of Santa Clarita
			1558	DU		
			2097	Students		

MH # 1-597

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.037**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0040**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**1.335**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.111	ft	

CACULATIONS:

beta=	48.25	degree
R=	0.068	ft
C=	58.465	
V=	0.966	ft/sec
A=	0.038	sq. ft.
Q_{assume}=	0.037	cfs
$Q_{halffull}$ =	**0.35**	**cfs**
$Q_{3/4full}$ =	**0.65**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**1.335**
Capacity d/r =	**33.41%**
$Q_{capacity}$ =	**0.348 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**10.62%**

($Q_{halffull}$ =	0.35	**cfs**	**($Q_{3/4full}$ =**	0.65	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.391	ft	$C_{3/4full}$=	81.524	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	2.000	ft/sec)	$V_{3/4full}$=	2.311	ft/sec)

PC # 11544
MH # 597-596

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.037**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0188**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**0.943**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.079	ft	

CACULATIONS:

beta=	40.18	degree
R=	0.049	ft
C=	52.598	
V=	1.604	ft/sec
A=	0.023	sq. ft.
Q_{assume}=	0.037	cfs
$Q_{halffull}$ =	**0.76**	**cfs**
$Q_{3/4full}$ =	**1.41**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**0.943**
Capacity d/r =	**23.60%**
$Q_{capacity}$ =	**0.759 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**4.88%**

($Q_{halffull}$ =	0.76	**cfs**	**($Q_{3/4full}$ =**	1.41	**cfs**
beta $_{halffull}$=	90.000	degree	beta $_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.738	ft	$C_{3/4full}$=	81.865	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	4.356	ft/sec)	$V_{3/4full}$=	5.031	ft/sec)

PC # 11544
MH # 596 - 595

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.037**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0040**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**1.337**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.111	ft	

CACULATIONS:

beta=	48.29	degree
R=	0.068	ft
C=	58.492	
V=	0.967	ft/sec
A=	0.038	sq. ft.
Q_{assume}=	0.037	cfs
$Q_{halffull}$ =	**0.35**	**cfs**
$Q_{3/4full}$ =	**0.65**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**1.337**
Capacity d/r =	**33.46%**
$Q_{capacity}$ =	**0.348 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**10.62%**

($Q_{halffull}$ =	0.35	**cfs**	**($Q_{3/4full}$ =**	0.65	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.391	ft	$C_{3/4full}$=	81.524	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	2.000	ft/sec)	$V_{3/4full}$=	2.311	ft/sec)

PC # 11544
MH # 595 - 594

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.087**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0056**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**1.830**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.153	ft	

CACULATIONS:

beta=	57.18	degree
R=	0.091	ft
C=	64.313	
V=	1.448	ft/sec
A=	0.060	sq. ft.
Q_{assume}=	0.087	cfs
$Q_{halffull}$ =	**0.41**	**cfs**
$Q_{3/4full}$ =	**0.77**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**1.830**
Capacity d/r =	**45.80%**
$Q_{capacity}$ =	**0.413 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**21.07%**

($Q_{halffull}$ =	0.41	**cfs**	**($Q_{3/4full}$ =**	0.77	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.516	ft	$C_{3/4full}$=	81.647	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	2.371	ft/sec)	$V_{3/4full}$=	2.739	ft/sec)

PC # 11544
MH # 594 - 593

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.087**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.3600**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**0.718**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.060	ft	

CACULATIONS:

beta=	34.88	degree
R=	0.038	ft
C=	47.991	
V=	5.628	ft/sec
A=	0.015	sq. ft.
Q_{assume}=	0.087	cfs
$Q_{halffull}$ =	**3.32**	**cfs**
$Q_{3/4full}$ =	**6.18**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**0.718**
Capacity d/r =	**17.97%**
$Q_{capacity}$ =	**3.324 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**2.62%**

($Q_{halffull}$ =	3.32	**cfs**	**($Q_{3/4full}$ =**	6.18	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.828	ft	$C_{3/4full}$=	81.953	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	19.083	ft/sec)	$V_{3/4full}$=	22.041	ft/sec)

PC # 11544
MH # 593 - 592

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.087**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0540**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h= **1.090** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.091 ft

CACULATIONS:

beta=	43.35	degree			
R=	0.057	ft			
C=	55.221				
V=	3.054	ft/sec			
A=	0.029	sq. ft.			
Q_{assume}=	0.087	cfs			
$Q_{halffull}$ =	**1.29**	**cfs**	**$Q_{3/4full}$ =**	**2.39**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**1.090**				
Capacity d/r =	**27.28%**				
$Q_{capacity}$ =	**1.287**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**6.76%**				
($Q_{halffull}$ =	1.29	**cfs**	**($Q_{3/4full}$ =**	2.39	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201	ft
$C_{halffull}$ =	77.800	ft	$C_{3/4full}$=	81.926	ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280	sq. ft.
$V_{halffull}$ =	7.388	ft/sec)	$V_{3/4full}$=	8.534	ft/sec)

PC # 11544
MH # 592 - 575

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.087**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0700**		*<== Slope V:H*
r=	**0.333**	ft	*<== Radius*

TRIAL DEPTH:

h=	**1.030**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.086	ft	

CACULATIONS:

beta=	42.08	degree
R=	0.054	ft
C=	54.221	
V=	3.325	ft/sec
A=	0.026	sq. ft.
Q_{assume}=	0.087	cfs
$Q_{halffull}$ =	**1.47**	**cfs**
$Q_{3/4full}$ =	**2.72**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**1.030**
Capacity d/r =	**25.78%**
$Q_{capacity}$ =	**1.465 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**5.94%**

($Q_{halffull}$ =	1.47	**cfs**	**($Q_{3/4full}$ =**	2.72 **cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00 degree
$R_{halffull}$ =	0.167	ft	$R_{3/4full}$=	0.201 ft
$C_{halffull}$ =	77.807	ft	$C_{3/4full}$=	81.933 ft
$A_{halffull}$ =	0.174	sq. ft.	$A_{3/4full}$=	0.280 sq. ft.
$V_{halffull}$ =	8.413	ft/sec)	$V_{3/4full}$=	9.717 ft/sec)

PC # 11544
MH # 575 - 574

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.597**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0200**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **2.740** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.228 ft

CACULATIONS:

beta=	50.60	degree			
R=	0.139	ft			
C=	73.696				
V=	3.885	ft/sec			
A=	0.153	sq. ft.			
Q_{assume}=	0.596	cfs			
$Q_{halffull}$ =	**4.46**	**cfs**	**$Q_{3/4full}$ =**	**8.24**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**2.740**				
Capacity d/r =	**36.53%**				
$Q_{capacity}$ =	**8.239**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**7.25%**				
($Q_{halffull}$ =	4.46	**cfs**	**($Q_{3/4full}$ =**	8.24	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.878	ft	$C_{3/4full}$=	96.089	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	7.269	ft/sec)	$V_{3/4full}$=	8.345	ft/sec)

PC # 11464
MH # 574 - 157

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**0.597**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0052**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**3.770**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.314	ft	

CACULATIONS:

beta=	60.18	degree
R=	0.184	ft
C=	79.667	
V=	2.465	ft/sec
A=	0.242	sq. ft.
Q_{assume}=	0.596	cfs
$Q_{halffull}$ =	**2.27**	**cfs**
$Q_{3/4full}$ =	**4.19**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**3.770**
Capacity d/r =	**50.27%**
$Q_{capacity}$ =	**4.191 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**14.25%**

($Q_{halffull}$ =	2.27	**cfs**	**($Q_{3/4full}$ =**	4.19	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.649	ft	$C_{3/4full}$=	95.871	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	3.697	ft/sec)	$V_{3/4full}$=	4.245	ft/sec)

PC # 10462-A
MH # 157 - 158

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.208**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0040**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h= **5.320** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.443 ft

CACULATIONS:

beta=	65.86	degree			
R=	0.253	ft			
C=	86.752				
V=	2.761	ft/sec			
A=	0.437	sq. ft.			
Q_{assume}=	1.206	cfs			
$Q_{halffull}$ =	**3.27**	**cfs**	**$Q_{3/4full}$ =**	**6.04**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**5.320**				
Capacity d/r =	**59.11%**				
$Q_{capacity}$ =	**6.042**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**20.00%**				
($Q_{halffull}$ =	3.27	**cfs**	**($Q_{3/4full}$ =**	6.04	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.656	ft	$C_{3/4full}$=	99.898	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	3.705	ft/sec)	$V_{3/4full}$=	4.250	ft/sec)

PC # 10462-A
MH # 158 - 159 -160

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.208**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0052**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**4.980**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.415	ft	

CACULATIONS:

beta=	63.47	degree
R=	0.240	ft
C=	85.603	
V=	3.022	ft/sec
A=	0.398	sq. ft.
Q_{assume}=	1.204	cfs
$Q_{halffull}$ =	**3.74**	**cfs**
$Q_{3/4full}$ =	**6.90**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**4.980**
Capacity d/r =	**55.33%**
$Q_{capacity}$ =	**6.895 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**17.52%**

($Q_{halffull}$ =	3.74	**cfs**	**($Q_{3/4full}$ =**	6.90	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.744	ft	$C_{3/4full}$=	99.981	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	4.228	ft/sec)	$V_{3/4full}$=	4.850	ft/sec)

PC # 10462-A
MH # 160 - 161 -162 - 163

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.208**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0120**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**4.330**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.361	ft	

CACULATIONS:

beta=	65.00	degree
R=	0.207	ft
C=	82.479	
V=	4.111	ft/sec
A=	0.293	sq. ft.
Q_{assume}=	1.206	cfs
$Q_{halffull}$ =	**3.45**	**cfs**
$Q_{3/4full}$ =	**6.38**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**4.330**
Capacity d/r =	**57.73%**
$Q_{capacity}$ =	**6.378 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**18.94%**

($Q_{halffull}$ =	3.45	**cfs**	**($Q_{3/4full}$ =**	6.38	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.824	ft	$C_{3/4full}$=	96.038	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	5.628	ft/sec)	$V_{3/4full}$=	6.461	ft/sec)

PC # 10462-A
MH # 163 - 650

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.208**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0180**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**3.920**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.327	ft	

CACULATIONS:

beta=	61.49	degree
R=	0.190	ft
C=	80.651	
V=	4.721	ft/sec
A=	0.255	sq. ft.
Q_{assume}=	1.206	cfs
$Q_{halffull}$ =	**4.23**	**cfs**
$Q_{3/4full}$ =	**7.82**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**3.920**
Capacity d/r =	**52.27%**
$Q_{capacity}$ =	**7.815 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**15.46%**

($Q_{halffull}$ =	4.23	**cfs**	**($Q_{3/4full}$ =**	7.82 **cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00 degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377 ft
$C_{halffull}$ =	91.869	ft	$C_{3/4full}$=	96.081 ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987 sq. ft.
$V_{halffull}$ =	6.896	ft/sec)	$V_{3/4full}$=	7.916 ft/sec)

PC # 10462-A
MH # 650 - 165

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.378**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0240**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **3.900** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.325 ft

CACULATIONS:

beta=	61.31	degree			
R=	0.190	ft			
C=	80.578				
V=	5.435	ft/sec			
A=	0.254	sq. ft.			
Q_{assume}=	1.378	cfs			
$Q_{halffull}$ =	**4.89**	**cfs**	**$Q_{3/4full}$ =**	**9.03**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**3.900**				
Capacity d/r =	**52.00%**				
$Q_{capacity}$ =	**9.026**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**15.27%**				
($Q_{halffull}$ =	4.89	**cfs**	**($Q_{3/4full}$ =**	9.03	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.892	ft	$C_{3/4full}$=	96.102	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	7.964	ft/sec)	$V_{3/4full}$=	9.143	ft/sec)

PC # 10462-A
MH # 165 - 166

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.416**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0140**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **4.500** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.375 ft

CACULATIONS:

beta=	66.42	degree
R=	0.214	ft
C=	83.216	
V=	4.551	ft/sec
A=	0.310	sq. ft.
Q_{assume}=	1.409	cfs
$Q_{halffull}$ =	**3.73**	**cfs**
$Q_{3/4full}$ =	**6.89**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**4.500**
Capacity d/r =	**60.00%**
$Q_{capacity}$ =	**6.891 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**20.55%**

($Q_{halffull}$ =	3.73	**cfs**	**($Q_{3/4full}$ =**	6.89 **cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00 degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377 ft
$C_{halffull}$ =	91.844	ft	$C_{3/4full}$=	96.056 ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987 sq. ft.
$V_{halffull}$ =	6.080	ft/sec)	$V_{3/4full}$=	6.979 ft/sec)

PC # 10462-A
MH # 166 - 167

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.416**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0130**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **4.600** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.383 ft

CACULATIONS:

beta=	67.25	degree			
R=	0.218	ft			
C=	83.612				
V=	4.447	ft/sec			
A=	0.319	sq. ft.			
Q_{assume}=	1.419	cfs			
$Q_{halffull}$ =	**3.59**	**cfs**	**$Q_{3/4full}$ =**	**6.64**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**4.600**				
Capacity d/r =	**61.33%**				
$Q_{capacity}$ =	**6.639**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**21.33%**				
($Q_{halffull}$ =	3.59	**cfs**	**($Q_{3/4full}$ =**	6.64	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.835	ft	$C_{3/4full}$=	96.048	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	5.858	ft/sec)	$V_{3/4full}$=	6.725	ft/sec)

PC # 10462-A
MH # 167 - 168

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.416**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0436**		*<== Slope V:H*
r=	**0.500**	ft	*<== Radius*

TRIAL DEPTH:

h= **3.700** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.308 ft

CACULATIONS:

beta=	67.46	degree			
R=	0.175	ft			
C=	78.809				
V=	6.880	ft/sec			
A=	0.206	sq. ft.			
Q_{assume}=	1.416	cfs			
$Q_{halffull}$ =	**3.56**	**cfs**	**$Q_{3/4full}$ =**	**6.60**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**3.700**				
Capacity d/r =	**61.67%**				
$Q_{capacity}$ =	**3.560**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**39.77%**				
($Q_{halffull}$ =	3.56	**cfs**	**($Q_{3/4full}$ =**	6.60	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.250	ft	$R_{3/4full}$=	0.302	ft
$C_{halffull}$ =	86.839	ft	$C_{3/4full}$=	91.089	ft
$A_{halffull}$ =	0.393	sq. ft.	$A_{3/4full}$=	0.632	sq. ft.
$V_{halffull}$ =	9.066	ft/sec)	$V_{3/4full}$=	10.447	ft/sec)

PC # 10462-A
MH # 168 - 535 - 169

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.416**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**4.900**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.408	ft	

CACULATIONS:

beta=	69.72	degree
R=	0.229	ft
C=	84.726	
V=	4.054	ft/sec
A=	0.348	sq. ft.
Q_{assume}=	1.412	cfs
$Q_{halffull}$ =	**3.15**	**cfs**
$Q_{3/4full}$ =	**5.82**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**4.900**
Capacity d/r =	**65.33%**
$Q_{capacity}$ =	**5.821 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**24.32%**

($Q_{halffull}$ =	3.15	**cfs**	**($Q_{3/4full}$ =**	5.82	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.798	ft	$C_{3/4full}$=	96.013	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	5.136	ft/sec)	$V_{3/4full}$=	5.896	ft/sec)

PC # 10462-A
MH # 169 - 170

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**1.416**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0160**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **4.360** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.363 ft

CACULATIONS:

beta=	65.25	degree			
R=	0.208	ft			
C=	82.644				
V=	4.770	ft/sec			
A=	0.296	sq. ft.			
Q_{assume}=	1.413	cfs			
$Q_{halffull}$ =	**3.99**	**cfs**	**$Q_{3/4full}$ =**	**7.37**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**4.360**				
Capacity d/r =	**58.13%**				
$Q_{capacity}$ =	**7.367**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**19.22%**				
($Q_{halffull}$ =	3.99	**cfs**	**($Q_{3/4full}$ =**	7.37	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.858	ft	$C_{3/4full}$=	96.070	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	6.501	ft/sec)	$V_{3/4full}$=	7.462	ft/sec)

PC # 10462-A
MH # 170 - 171

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**2.039**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0160**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**5.250**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.438	ft	

CACULATIONS:

beta=	72.54	degree
R=	0.242	ft
C=	86.024	
V=	5.351	ft/sec
A=	0.383	sq. ft.
Q_{assume}=	2.048	cfs

$Q_{halffull}$ =	**3.99**	**cfs**	**$Q_{3/4full}$ =** **7.37** **cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**5.250**
Capacity d/r =	**70.00%**
$Q_{capacity}$ =	**7.367 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**27.68%**

($Q_{halffull}$ =	3.99	**cfs**	**($Q_{3/4full}$ =**	7.37	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.858	ft	$C_{3/4full}$=	96.070	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	6.501	ft/sec)	$V_{3/4full}$=	7.462	ft/sec)

PC # 10462-A
MH # 171 - 35

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**2.039**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0292**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h= **4.500** in *<== Vary this depth to get Q_{assume} = Q_{given}*

0.375 ft

CACULATIONS:

beta=	66.42	degree
R=	0.214	ft
C=	83.280	
V=	6.578	ft/sec
A=	0.310	sq. ft.
Q_{assume}=	2.037	cfs
$Q_{halffull}$ =	**5.39**	**cfs**
$Q_{3/4full}$ =	**9.96**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**4.500**
Capacity d/r =	**60.00%**
$Q_{capacity}$ =	**9.957 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**20.48%**

($Q_{halffull}$ =	5.39	**cfs**	**($Q_{3/4full}$ =**	9.96 **cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00 degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377 ft
$C_{halffull}$ =	91.904	ft	$C_{3/4full}$=	96.114 ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987 sq. ft.
$V_{halffull}$ =	8.786	ft/sec)	$V_{3/4full}$=	10.086 ft/sec)

PC # 10462-A
MH # 35 - 33 - 26

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**2.690**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0040**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**8.050**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.671	ft	

CACULATIONS:

beta=	83.94	degree
R=	0.348	ft
C=	93.971	
V=	3.507	ft/sec
A=	0.765	sq. ft.
Q_{assume}=	2.683	cfs
$Q_{halffull}$ =	**3.27**	**cfs**
$Q_{3/4full}$ =	**6.04**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**8.050**
Capacity d/r =	**89.44%**
$Q_{capacity}$ =	**6.042 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**44.52%**

($Q_{halffull}$ =	3.27	**cfs**	**($Q_{3/4full}$ =**	6.04	**cfs**
beta $_{halffull}$=	90.000	degree	beta $_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.656	ft	$C_{3/4full}$=	99.898	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	3.705	ft/sec)	$V_{3/4full}$=	4.250	ft/sec)

PC # 10445
MH # 26 - 366 - 365

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**2.985**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0081**		*<== Slope V:H*
r=	**0.875**	ft	*<== Radius*

TRIAL DEPTH:

h=	**6.600**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.550	ft	

CACULATIONS:

beta=	68.20	degree
R=	0.311	ft
C=	91.596	
V=	4.595	ft/sec
A=	0.647	sq. ft.
Q_{assume}=	2.974	cfs
$Q_{halffull}$ =	**7.12**	**cfs**
$Q_{3/4full}$ =	**13.10**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**6.600**
Capacity d/r =	**62.86%**
$Q_{capacity}$ =	**13.100 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**22.78%**

($Q_{halffull}$ =	7.12	**cfs**	**($Q_{3/4full}$ =**	13.10	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.438	ft	$R_{3/4full}$=	0.528	ft
$C_{halffull}$ =	99.348	ft	$C_{3/4full}$=	103.521	ft
$A_{halffull}$ =	1.203	sq. ft.	$A_{3/4full}$=	1.935	sq. ft.
$V_{halffull}$ =	5.918	ft/sec)	$V_{3/4full}$=	6.770	ft/sec)

PC # 10445
MH # 365 - 367

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0081**		*<== Slope V:H*
r=	**0.875**	ft	*<== Radius*

TRIAL DEPTH:

h= **9.750** in *<== Vary this depth to get Q_{assume} = Q_{given}*
0.813 ft

CACULATIONS:

beta=	85.90	degree			
R=	0.417	ft			
C=	98.228				
V=	5.707	ft/sec			
A=	1.093	sq. ft.			
Q_{assume}=	6.240	cfs			
$Q_{halffull}$ =	**7.12**	**cfs**	**$Q_{3/4full}$ =**	**13.10**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) = 9.750

Capacity d/r = 92.86%

$Q_{capacity}$ = 13.100 cfs

Capacity $Q_{given}/Q_{capacity}$ = 47.62%

($Q_{halffull}$ =	7.12	**cfs**	**($Q_{3/4full}$ =**	13.10	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.438	ft	$R_{3/4full}$=	0.528	ft
$C_{halffull}$ =	99.348	ft	$C_{3/4full}$=	103.521	ft
$A_{halffull}$ =	1.203	sq. ft.	$A_{3/4full}$=	1.935	sq. ft.
$V_{halffull}$ =	5.918	ft/sec)	$V_{3/4full}$=	6.770	ft/sec)

PC # 10445
MH # 367 - 79

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**10.050**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.838	ft	

CACULATIONS:

beta=	96.70	degree
R=	0.401	ft
C=	97.384	
V=	6.165	ft/sec
A=	1.015	sq. ft.
Q_{assume}=	6.254	cfs
$Q_{halffull}$ =	**5.19**	**cfs**
$Q_{3/4full}$ =	**9.57**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**10.050**
Capacity d/r =	**111.67%**
$Q_{capacity}$ =	**9.575 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**65.15%**

($Q_{halffull}$ =	5.19	**cfs**	**($Q_{3/4full}$ =**	9.57	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.886	ft	$C_{3/4full}$=	100.114	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	5.872	ft/sec)	$V_{3/4full}$=	6.735	ft/sec)

PC # 10445
MH # 79 - 78

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0140**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.100**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.758	ft	

CACULATIONS:

beta=	90.64	degree
R=	0.378	ft
C=	96.088	
V=	6.987	ft/sec
A=	0.896	sq. ft.
Q_{assume}=	6.261	cfs
$Q_{halffull}$ =	**6.14**	**cfs**
$Q_{3/4full}$ =	**11.33**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.100**
Capacity d/r =	**101.11%**
$Q_{capacity}$ =	**11.333 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**55.04%**

($Q_{halffull}$ =	6.14	**cfs**	**($Q_{3/4full}$ =**	11.33	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.930	ft	$C_{3/4full}$=	100.156	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	6.951	ft/sec)	$V_{3/4full}$=	7.972	ft/sec)

PC # 10445
MH # 78 - 77 - 76

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**10.050**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.838	ft	

CACULATIONS:

beta=	96.70	degree
R=	0.401	ft
C=	97.384	
V=	6.165	ft/sec
A=	1.015	sq. ft.
Q_{assume}=	6.254	cfs
$Q_{halffull}$ =	**5.19**	**cfs**
$Q_{3/4full}$ =	**9.57**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**10.050**
Capacity d/r =	**111.67%**
$Q_{capacity}$ =	**9.575 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**65.15%**

($Q_{halffull}$ =	5.19	**cfs**	**($Q_{3/4full}$ =**	9.57	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.886	ft	$C_{3/4full}$=	100.114	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	5.872	ft/sec)	$V_{3/4full}$=	6.735	ft/sec)

PC # 10445
MH # 76 - 17

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0112**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.700**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.808	ft	

CACULATIONS:

beta=	94.46	degree
R=	0.393	ft
C=	96.939	
V=	6.428	ft/sec
A=	0.971	sq. ft.
Q_{assume}=	6.242	cfs
$Q_{halffull}$ =	**5.49**	**cfs**
$Q_{3/4full}$ =	**10.13**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.700**
Capacity d/r =	**107.78%**
$Q_{capacity}$ =	**10.134 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**61.55%**

($Q_{halffull}$ =	5.49	**cfs**	**($Q_{3/4full}$ =**	10.13	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.902	ft	$C_{3/4full}$=	100.130	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	6.215	ft/sec)	$V_{3/4full}$=	7.128	ft/sec)

PC # 885401
MH # 17-16-14-13-12

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.238**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0020**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**17.200**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	1.433	ft	

CACULATIONS:

beta=	155.66	degree
R=	0.427	ft
C=	98.218	
V=	2.870	ft/sec
A=	1.739	sq. ft.
Q_{assume}=	4.992	cfs

$Q_{halffull}$ = 2.31 cfs **$Q_{3/4full}$ = 4.26 cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 20% <======== **Not Good**

(Increase h)

Flow Depth (in) = Try another h

Capacity d/r = No Result

$Q_{capacity}$ = 4.257 cfs

Capacity $Q_{given}/Q_{capacity}$ = 146.52%

($Q_{halffull}$ =	2.31	**cfs**	**($Q_{3/4full}$ =**	4.26	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.278	ft	$C_{3/4full}$=	99.541	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	2.609	ft/sec)	$V_{3/4full}$=	2.995	ft/sec)

PC # 885501-876091
MH # 12-11-10-9-7

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0020**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h= **16.900** in *<== Vary this depth to get Q_{assume} = Q_{given}*

1.408 ft

CACULATIONS:

beta=	151.38	degree
R=	0.435	ft
C=	98.631	
V=	2.908	ft/sec
A=	1.723	sq. ft.
Q_{assume}=	5.010	cfs
$Q_{halffull}$ =	**2.31**	**cfs**
$Q_{3/4full}$ =	**4.26**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 21% <======== **Not Good**

(Increase h)

Flow Depth (in) = Try another h

Capacity d/r = No Result

$Q_{capacity}$ = 4.257 cfs

Capacity $Q_{given}/Q_{capacity}$ = 148.82%

($Q_{halffull}$ =	2.31	**cfs**	**($Q_{3/4full}$ =**	4.26	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.278	ft	$C_{3/4full}$=	99.541	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	2.609	ft/sec)	$V_{3/4full}$=	2.995	ft/sec)

PC # 876091
MH # 7-2

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0032**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**17.100**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	1.425	ft	

CACULATIONS:

beta=	154.16	degree
R=	0.430	ft
C=	98.640	
V=	3.658	ft/sec
A=	1.734	sq. ft.
Q_{assume}=	6.343	cfs
$Q_{halffull}$ =	**2.92**	**cfs**
$Q_{3/4full}$ =	**5.40**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**17.100**
Capacity d/r =	**190.00%**
$Q_{capacity}$ =	**5.400 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**117.34%**

($Q_{halffull}$ =	2.92	**cfs**	**($Q_{3/4full}$ =**	5.40	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.561	ft	$C_{3/4full}$=	99.808	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	3.310	ft/sec)	$V_{3/4full}$=	3.798	ft/sec)

PC # 876091
MH # 2-1

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0024**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**16.900**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	1.408	ft	

CACULATIONS:

beta=	151.38	degree
R=	0.435	ft
C=	98.751	
V=	3.190	ft/sec
A=	1.723	sq. ft.
Q_{assume}=	5.495	cfs

$Q_{halffull}$ = 2.53 cfs **$Q_{3/4full}$ = 4.67 cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 13% <======== **Not Good**

(Increase h)

Flow Depth (in) = Try another h

Capacity d/r = No Result

$Q_{capacity}$ = 4.669 cfs

Capacity $Q_{given}/Q_{capacity}$ = 135.70%

($Q_{halffull}$ =	2.53	**cfs**	**($Q_{3/4full}$ =**	4.67	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.403	ft	$C_{3/4full}$=	99.659	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	2.862	ft/sec)	$V_{3/4full}$=	3.284	ft/sec)

PC # 876091
MH # 1-171

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0136**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.250**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.771	ft	

CACULATIONS:

beta=	91.59	degree
R=	0.382	ft
C=	96.315	
V=	6.938	ft/sec
A=	0.915	sq. ft.
Q_{assume}=	6.347	cfs
$Q_{halffull}$ =	**6.05**	**cfs**
$Q_{3/4full}$ =	**11.17**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.250**
Capacity d/r =	**102.78%**
$Q_{capacity}$ =	**11.170 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**56.72%**

($Q_{halffull}$ =	6.05	**cfs**	**($Q_{3/4full}$ =**	11.17	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.927	ft	$C_{3/4full}$=	100.153	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	6.851	ft/sec)	$V_{3/4full}$=	7.857	ft/sec)

PC # 876091
MH # 171-169

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0032**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**17.000**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	1.417	ft	

CACULATIONS:

beta=	152.73	degree
R=	0.432	ft
C=	98.777	
V=	3.674	ft/sec
A=	1.729	sq. ft.
Q_{assume}=	6.350	cfs
$Q_{halffull}$ =	**2.92**	**cfs**
$Q_{3/4full}$ =	**5.40**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**17.000**	
Capacity d/r =	**188.89%**	
$Q_{capacity}$ =	**5.400**	**cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**117.34%**	

($Q_{halffull}$ =	2.92	**cfs**	**($Q_{3/4full}$ =**	5.40	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.561	ft	$C_{3/4full}$=	99.808	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	3.310	ft/sec)	$V_{3/4full}$=	3.798	ft/sec)

PC # 876091
MH # 169-168

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.336**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0800**		*<== Slope V:H*
r=	**0.500**	ft	*<== Radius*

TRIAL DEPTH:

h=	**7.050**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.588	ft	

CACULATIONS:

beta=	100.08	degree
R=	0.275	ft
C=	88.983	
V=	13.190	ft/sec
A=	0.480	sq. ft.
Q_{assume}=	6.328	cfs
$Q_{halffull}$ =	**4.82**	**cfs**
$Q_{3/4full}$ =	**8.94**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**7.050**
Capacity d/r =	**117.50%**
$Q_{capacity}$ =	**4.824 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**131.35%**

($Q_{halffull}$ =	4.82	**cfs**	**($Q_{3/4full}$ =**	8.94	**cfs**
beta $_{halffull}$=	90.000	degree	beta $_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.250	ft	$R_{3/4full}$=	0.302	ft
$C_{halffull}$ =	86.857	ft	$C_{3/4full}$=	91.106	ft
$A_{halffull}$ =	0.393	sq. ft.	$A_{3/4full}$=	0.632	sq. ft.
$V_{halffull}$ =	12.283	ft/sec)	$V_{3/4full}$=	14.154	ft/sec)

PC # 8583
MH # 168-167-166-165

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.431**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0140**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**10.650**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.888	ft	

CACULATIONS:

beta=	114.83	degree
R=	0.372	ft
C=	95.744	
V=	6.909	ft/sec
A=	0.932	sq. ft.
Q_{assume}=	6.438	cfs
$Q_{halffull}$ =	**3.73**	**cfs**
$Q_{3/4full}$ =	**6.89**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**10.650**
Capacity d/r =	**142.00%**
$Q_{capacity}$ =	**6.891 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**93.33%**

($Q_{halffull}$ =	3.73	**cfs**	**($Q_{3/4full}$ =**	6.89 **cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00 degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377 ft
$C_{halffull}$ =	91.844	ft	$C_{3/4full}$=	96.056 ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987 sq. ft.
$V_{halffull}$ =	6.080	ft/sec)	$V_{3/4full}$=	6.979 ft/sec)

PC # 8146R01
MH # 165-150

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.842**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0152**		*<== Slope V:H*
r=	**0.625**	ft	*<== Radius*

TRIAL DEPTH:

h=	**10.800**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.900	ft	

CACULATIONS:

beta=	116.10	degree
R=	0.373	ft
C=	95.844	
V=	7.221	ft/sec
A=	0.946	sq. ft.
Q_{assume}=	6.830	cfs
$Q_{halffull}$ =	**3.89**	**cfs**
$Q_{3/4full}$ =	**7.18**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) =	**10.800**
Capacity d/r =	**144.00%**
$Q_{capacity}$ =	**7.181 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**95.28%**

($Q_{halffull}$ =	3.89	**cfs**	**($Q_{3/4full}$ =**	7.18	**cfs**
beta $_{halffull}$=	90.000	degree	beta $_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.313	ft	$R_{3/4full}$=	0.377	ft
$C_{halffull}$ =	91.853	ft	$C_{3/4full}$=	96.065	ft
$A_{halffull}$ =	0.614	sq. ft.	$A_{3/4full}$=	0.987	sq. ft.
$V_{halffull}$ =	6.336	ft/sec)	$V_{3/4full}$=	7.273	ft/sec)

PC # 8146R01
MH # 150-149

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.842**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0148**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.450**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.788	ft	

CACULATIONS:

beta=	92.87	degree
R=	0.387	ft
C=	96.620	
V=	7.308	ft/sec
A=	0.940	sq. ft.
Q_{assume}=	6.868	cfs
$Q_{halffull}$ =	**6.31**	**cfs**
$Q_{3/4full}$ =	**11.65**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.450**
Capacity d/r =	**105.00%**
$Q_{capacity}$ =	**11.653 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**58.71%**

($Q_{halffull}$ =	6.31	**cfs**	**($Q_{3/4full}$ =**	11.65	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.936	ft	$C_{3/4full}$=	100.161	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	7.147	ft/sec)	$V_{3/4full}$=	8.197	ft/sec)

PC # 8146R01
MH # 149-148

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.924**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0152**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.400**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.783	ft	

CACULATIONS:

beta=	92.55	degree
R=	0.385	ft
C=	96.550	
V=	7.389	ft/sec
A=	0.934	sq. ft.
Q_{assume}=	6.898	cfs
$Q_{halffull}$ =	**6.40**	**cfs**
$Q_{3/4full}$ =	**11.81**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.400**
Capacity d/r =	**104.44%**
$Q_{capacity}$ =	**11.810 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**58.63%**

($Q_{halffull}$ =	6.40	**cfs**	**($Q_{3/4full}$ =**	11.81	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.939	ft	$C_{3/4full}$=	100.164	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	7.243	ft/sec)	$V_{3/4full}$=	8.307	ft/sec)

PC # 8146R01
MH # 148-145

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.924**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0148**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.520**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.793	ft	

CACULATIONS:

beta=	93.31	degree
R=	0.388	ft
C=	96.721	
V=	7.332	ft/sec
A=	0.949	sq. ft.
Q_{assume}=	6.955	cfs
$Q_{halffull}$ =	**6.31**	**cfs**
$Q_{3/4full}$ =	**11.65**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.520**
Capacity d/r =	**105.78%**
$Q_{capacity}$ =	**11.653 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**59.42%**

($Q_{halffull}$ =	6.31	**cfs**	**($Q_{3/4full}$ =**	11.65	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.936	ft	$C_{3/4full}$=	100.161	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	7.147	ft/sec)	$V_{3/4full}$=	8.197	ft/sec)

PC # 8146R01
MH # 145-144

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**6.924**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0152**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.400**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.783	ft	

CACULATIONS:

beta=	92.55	degree
R=	0.385	ft
C=	96.550	
V=	7.389	ft/sec
A=	0.934	sq. ft.
Q_{assume}=	6.898	cfs
$Q_{halffull}$ =	**6.40**	**cfs**
$Q_{3/4full}$ =	**11.81**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**9.400**
Capacity d/r =	**104.44%**
$Q_{capacity}$ =	**11.810 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**58.63%**

($Q_{halffull}$ =	6.40	**cfs**	**($Q_{3/4full}$ =**	11.81	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.939	ft	$C_{3/4full}$=	100.164	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	7.243	ft/sec)	$V_{3/4full}$=	8.307	ft/sec)

PC # 8146R01
MH # 144-129

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**7.595**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**11.400**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.950	ft	

CACULATIONS:

beta=	105.47	degree
R=	0.427	ft
C=	98.830	
V=	6.461	ft/sec
A=	1.180	sq. ft.
Q_{assume}=	7.624	cfs
$Q_{halffull}$ =	**5.19**	**cfs**
$Q_{3/4full}$ =	**9.57**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**11.400**
Capacity d/r =	**126.67%**
$Q_{capacity}$ =	**9.575 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**79.32%**

($Q_{halffull}$ =	5.19	**cfs**	**($Q_{3/4full}$ =**	9.57	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.886	ft	$C_{3/4full}$=	100.114	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	5.872	ft/sec)	$V_{3/4full}$=	6.735	ft/sec)

PC # 8146R01
MH # 129-130-131-132-133-46-43

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**7.671**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**11.420**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.952	ft	

CACULATIONS:

beta=	105.60	degree
R=	0.428	ft
C=	98.848	
V=	6.464	ft/sec
A=	1.182	sq. ft.
Q_{assume}=	7.644	cfs
$Q_{halffull}$ =	**5.19**	**cfs**
$Q_{3/4full}$ =	**9.57**	**cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**11.420**				
Capacity d/r =	**126.89%**				
$Q_{capacity}$ =	**9.575**	**cfs**			
Capacity $Q_{given}/Q_{capacity}$ =	**80.12%**				
($Q_{halffull}$ =	5.19	**cfs**	**($Q_{3/4full}$ =**	9.57	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.886	ft	$C_{3/4full}$=	100.114	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	5.872	ft/sec)	$V_{3/4full}$=	6.735	ft/sec)

PC # 8146R01
MH # 43-32

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**7.695**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0100**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**11.500**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.958	ft	

CACULATIONS:

beta=	106.13	degree
R=	0.429	ft
C=	98.918	
V=	6.479	ft/sec
A=	1.192	sq. ft.
Q_{assume}=	7.723	cfs
$Q_{halffull}$ =	**5.19**	**cfs**

$Q_{3/4full}$ = 9.57 cfs

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% **<======== OK**

Flow Depth (in) =	**11.500**
Capacity d/r =	**127.78%**
$Q_{capacity}$ =	**9.575 cfs**
Capacity $Q_{given}/Q_{capacity}$ =	**80.37%**

($Q_{halffull}$ =	5.19	**cfs**	**($Q_{3/4full}$ =**	9.57	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.886	ft	$C_{3/4full}$=	100.114	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	5.872	ft/sec)	$V_{3/4full}$=	6.735	ft/sec)

PC # 8146R01
MH # 32-31

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**7.695**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0212**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**9.100**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.758	ft	

CACULATIONS:

beta=	90.64	degree
R=	0.378	ft
C=	96.125	
V=	8.601	ft/sec
A=	0.896	sq. ft.
Q_{assume}=	7.707	cfs

$Q_{halffull}$ = 7.56 cfs **$Q_{3/4full}$ = 13.95 cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======= **OK**

Flow Depth (in) = 9.100

Capacity d/r = 101.11%

$Q_{capacity}$ = 13.951 cfs

Capacity $Q_{given}/Q_{capacity}$ = 55.16%

($Q_{halffull}$ =	7.56	**cfs**	**($Q_{3/4full}$ =**	13.95	**cfs**
$beta_{halffull}$=	90.000	degree	$beta_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.967	ft	$C_{3/4full}$=	100.191	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	8.557	ft/sec)	$V_{3/4full}$=	9.813	ft/sec)

PC # 10445
MH # 31-TRUNK

Cells that are highlighted can be changed

GIVEN:

Qgiven=	**8.060**	cfs	*<== Discharge*
n=	**0.013**		*<== Roughness coefficient*
S=	**0.0124**		*<== Slope V:H*
r=	**0.750**	ft	*<== Radius*

TRIAL DEPTH:

h=	**11.000**	in	*<== Vary this depth to get Q_{assume} = Q_{given}*
	0.917	ft	

CACULATIONS:

beta=	102.84	degree
R=	0.420	ft
C=	98.483	
V=	7.109	ft/sec
A=	1.131	sq. ft.
Q_{assume}=	8.044	cfs

$Q_{halffull}$ = 5.78 cfs **$Q_{3/4full}$ = 10.66 cfs**

RESULT:

(Qgiven-Qassume) / Qgiven %= 0% <======== **OK**

Flow Depth (in) = 11.000

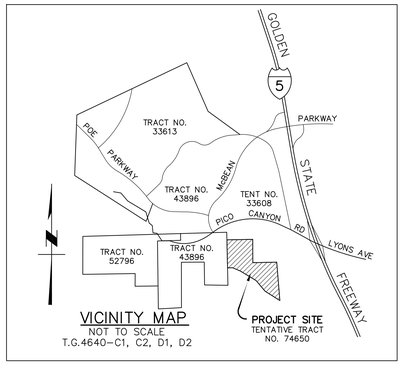
Capacity d/r = 122.22%

$Q_{capacity}$ = 10.665 cfs

Capacity $Q_{given}/Q_{capacity}$ = 75.58%

($Q_{halffull}$ =	5.78	**cfs**	**($Q_{3/4full}$ =**	10.66	**cfs**
beta $_{halffull}$=	90.000	degree	beta $_{3/4full}$=	120.00	degree
$R_{halffull}$ =	0.375	ft	$R_{3/4full}$=	0.453	ft
$C_{halffull}$ =	95.916	ft	$C_{3/4full}$=	100.142	ft
$A_{halffull}$ =	0.884	sq. ft.	$A_{3/4full}$=	1.422	sq. ft.
$V_{halffull}$ =	6.541	ft/sec)	$V_{3/4full}$=	7.502	ft/sec)

MAP



EASEMENT PLOT
ORDER NO. 416240446
PROPERTY IN QUESTION

ITEM NO. 2 – INGRESS AND EGRESS
NOVEMBER 13, 1963 AS INSTRUMENT NO. 3337 O.R. TO BE ABANDONED

ITEM NO. 3 – ROAD
MARCH 13, 1963 AS INSTRUMENT NO. 2385 O.R. TO BE ABANDONED

ITEM NO. 4 – INGRESS, EGRESS AND PUBLIC UTILITY – AFFECTS PARCEL 4 ONLY
AUGUST 5, 1969 AS INSTRUMENT NO. 2831 O.R. TO BE ABANDONED

ITEM NO. 5 – DITCHES AND CANALS – UNLOCATABLE
BOOK 2896 PAGE 85 O.R.

ITEM NO. 7 – ROADWAYS – UNLOCATABLE
BOOK D3630 PAGE 466 O.R.

ITEM NO. 8 – INGRESS, EGRESS AND UTILITIES – UNLOCATABLE
APRIL 4, 1978 AS INSTRUMENT NO. 78-352178 AND
FEBRUARY 27, 1979 AS INSTRUMENT NO. 79-227247, BOTH OF O.R.

ITEM NO. 11 – INGRESS AND EGRESS – AFFECTS PARCEL 4 ONLY
OCTOBER 1, 1985 AS INSTRUMENT NO. 85-1147318 O.R. TO BE ABANDONED

ITEM NO. 12 – WATER PIPE LINE
JULY 30, 1997 AS INSTRUMENT NO. 97-1153697 O.R. TO BE REMAIN

ITEM NO. 14 – INGRESS, EGRESS, UTILITIES AND COMMUNICATION FACILITIES – UNLOCATABLE
APRIL 8, 2008 AS INSTRUMENT NO. 2008-605413 O.R.

BENCHMARK L3026

RDBM TAG IN S CB 26' W/O BCR @ SW COR LYONS AVE & WILEY CYN RD 100' W & 40' S/O C/L INT (NR W END CB)

NEWHALL 2009 ELEV.=1265.354 (FEET)
ELE.= 385.681 (M)

LEGAL DESCRIPTION:

SEE SHEET 2 OF 2 FOR FULL LEGAL DESCRIPTION

LAND USE SUMMARY:

	ACRES	%	LOTS
SINGLE FAMILY	9.35	9.91	37
OPEN SPACE LOTS	76.64	81.20	2
PUBLIC FACILITY	2.74	2.90	5
HOA FACILITY	1.78	1.89	1
PUBLIC STREETS	3.87	4.10	--
TOTAL	94.38	100%	--

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	94°05'16"	350.00'	574.75'	375.91'
C2	15°59'08"	680.00'	189.72'	95.48'
C3	26°13'25"	400.00'	183.08'	93.17'
C4	32°09'11"	620.00'	347.93'	178.68'
C5	65°40'18"	281.00'	322.08'	181.34'
C6	28°40'19"	378.72'	189.52'	96.79'

RECORD OWNER:

PI PROPERTIES NO. 36 LLC
C/O POSITIVE INVESTMENTS, INC
610 N. SANTA ANITA AVE
ARCADIA, CA 91006

SUBDIVIDER:

PICO CANYON., LLC
1435 REYNOLDS CT.
THOUSAND OAKS, CA 91362
805-373-2860

ENGINEER:

CIVIL DESIGN AND DRAFTING, INC.
IMAD ABOUJAWDAH
885 PATRIOT DR., UNIT C
MOORPARK, CA 93021
805-522-2622

PROJECT LOCATION:

MAGNOLIA LN & AUTUMN PL
SANTA CLARITA, CA 91381
THOMAS GUIDE PAGE NO. 4640-C-2
APN: 2826-020-012, 013 & 061

NOTE:

OPEN SPACE AREAS TO BE DESIGNATED AS RESTRICTED USE AREAS ON THE FINAL MAP.

ALL EASEMENTS MARKED TO BE ABANDONED WILL TAKE EFFECT AT MAP RECORDATION.

UTILITIES & SERVICES:

SEWER	L.A. COUNTY SANITATION DISTRICT #32
WATER	VALENCIA WATER COMPANY
GAS	SO. CALIFORNIA GAS CO.
ELECTRICAL	SO. CALIFORNIA EDISON CO.
TELEPHONE	PACIFIC TELEPHONE CO.
SCHOOLS	NEWHALL ELEMENTARY SCHOOL DISTRICT, HART HIGH SCHOOL DISTRICT
FIRE	L.A. COUNTY FIRE DEPARTMENT
POLICE	L.A. COUNTY SHERIFF'S DEPARTMENT
CABLE T.V.	STEVENSON RANCH CABLE

GENERAL NOTES:

- EXISTING AND PROPOSED ZONING A-2-2
- SANTA CLARITA GENERAL PLAN RL2
- ASSESSORS PARCEL NUMBERS: 2826-020-012, 2826-020-013, & 2826-020-061
- THOMAS BROS PAGE: 4640 GRID C2
- THIS PROJECT IS A DENSITY CONTROLLED DEVELOPMENT UNDER SECTION 22.56.205 OF TITLE 22 L.A. COUNTY ZONING CODE.

SITE DATA:

- SITE IS VACANT.
- GROSS ACREAGE=94.38 ACRES
- AVERAGE RESIDENTIAL LOT SIZE: 2.4 ACRES (DENSITY CONTROLLED DEVELOPMENT SECTION 22.56.205)
- TOTAL RESIDENTIAL LOTS: 37 (LOTS 1 THRU 37)
- OPEN SPACE & PUBLIC FACILITY LOTS 38 THRU 42, 44, AND 45.
- HOA FACILITY LOT: 43
- TOTAL: 45 LOTS
- MAXIMUM SLOPE GRADE: 2 FT HORIZONTAL TO 1 FT VERTICAL AND 1.75 FT HORIZONTAL TO 1FT VERTICAL IN FILL SLOPE
- 66456.1 CALIFORNIA GOVT. CODE (SUBDIVISION MAP ACT)
- OAK TREES TO REMOVED =1
- GRADING PROPOSED: RAW CUT=375,000 CUBIC YARDS
  RAW FILL=375,000 CUBIC YARDS
  OVER-EXCAVATION=73,000 CUBIC YARDS

CIRCULATION:

- ALL STREETS TO BE PUBLIC RIGHTS-OF-WAY.
- HOME OWNERS ASSOCIATION TO BE ESTABLISHED TO MAINTAIN ANY COMMON OPEN SPACE LOTS CREATED.
- DEVELOPER REQUESTS RIGHT TO ADJUST LOT LINES TO THE SATISFACTION OF THE COUNTY OF LOS ANGELES.
- REQUEST RIGHT TO CREATE ADDITIONAL OPEN SPACE LOTS PRIOR TO RECORDATION OF FINAL MAP(S).
- RIGHT OF WAY RETURN RADII OF 13 FEET AT ALL LOCAL STREET INTERSECTIONS.
- CUL-DE-SAC DESIGN PER L.A.C.O. STD. PLATE 12-01, 2-04
- OPEN SPACE AREAS TO BE DESIGNATED AS BUILDING RESTRICTION AREAS ON THE FINAL MAP AND THE FUTURE HOA SHALL MAINTAIN SAID OPEN SPACE AREAS UPON EXECUTION OF A MAINTENANCE AGREEMENT UNLESS THE PROPERTY IS TRANSFERRED TO THE COUNTY OR A LAND CONSERVANCY.

TYPICAL SECTION 64' R/W
(MAGNOLIA LANE)
(PUBLIC STREET)
NOT TO SCALE

TYPICAL SECTION 60' R/W
("A", "B" STREET)
(PUBLIC STREET)
NOT TO SCALE

TYPICAL SECTION 58' R/W
("C" STREET)
(PUBLIC STREET)
NOT TO SCALE

LOT AREA SUMMARY:

LOT NO.	NET AREA ㎡	GROSS AREA ㎡	TYPE
1	10355	10355	SINGLE FAMILY DETACHED
2	10510	10510	SINGLE FAMILY DETACHED
3	10365	10364	SINGLE FAMILY DETACHED
4	10301	10301	SINGLE FAMILY DETACHED
5	8945	10042	SINGLE FAMILY DETACHED
6	10337	10337	SINGLE FAMILY DETACHED
7	9941	11090	SINGLE FAMILY DETACHED
8	9634	10805	SINGLE FAMILY DETACHED
9	12435	12435	SINGLE FAMILY DETACHED
10	13142	13142	SINGLE FAMILY DETACHED
11	11608	11608	SINGLE FAMILY DETACHED
12	11178	12250	SINGLE FAMILY DETACHED
13	12036	12036	SINGLE FAMILY DETACHED
14	12498	12498	SINGLE FAMILY DETACHED
15	11278	11278	SINGLE FAMILY DETACHED
16	11534	11534	SINGLE FAMILY DETACHED
17	11737	11737	SINGLE FAMILY DETACHED
18	11155	11155	SINGLE FAMILY DETACHED
19	8692	10176	SINGLE FAMILY DETACHED
20	10551	10551	SINGLE FAMILY DETACHED
21	11812	11812	SINGLE FAMILY DETACHED
22	12135	12135	SINGLE FAMILY DETACHED
23	16449	16449	SINGLE FAMILY DETACHED
24	12718	12718	SINGLE FAMILY DETACHED
25	14176	14176	SINGLE FAMILY DETACHED
26	14887	14887	SINGLE FAMILY DETACHED
27	12962	12965	SINGLE FAMILY DETACHED
28	14093	14093	SINGLE FAMILY DETACHED
29	13309	13309	SINGLE FAMILY DETACHED
30	13066	13066	SINGLE FAMILY DETACHED
31	12049	12049	SINGLE FAMILY DETACHED
32	14575	14575	SINGLE FAMILY DETACHED
33	14060	14606	SINGLE FAMILY DETACHED
34	15631	15631	SINGLE FAMILY DETACHED
35	30318	30318	SINGLE FAMILY DETACHED
36	26578	26578	SINGLE FAMILY DETACHED
37	11326	11326	SINGLE FAMILY DETACHED
38	--	24867	BASIN LOT
39	--	25205	BASIN LOT
40	--	47074	BASIN LOT
41	--	13959	BASIN LOT
42	--	17669	BASIN LOT
43	--	77514	WATER QUALITY BASIN LOT
44	--	695071	OPEN SPACE
45	--	2643229	OPEN SPACE
	--	168577	PUBLIC STREET
TOTAL	478897	4111193	

Plot Date: Mon, January 08, 2018

UNDERGROUND SERVICE ALERT
call TOLL FREE
1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG

REVISION BLOCK

REV#	APPR	DATE	REVISION DESCRIPTION

PLAN CHK	CITY ENGR	APPR	APPR	DATE

PREPARED BY:
Design & Drafting inc.
IMAD ABOUJAWDAH R.C.E. C57299
885 Patriot Drive, Unit C
Moorpark, CA 93021
Phone: 805-522-2622
Fax: 805-426-8016
email: CDD@civildesignanddrafting.com
DATE

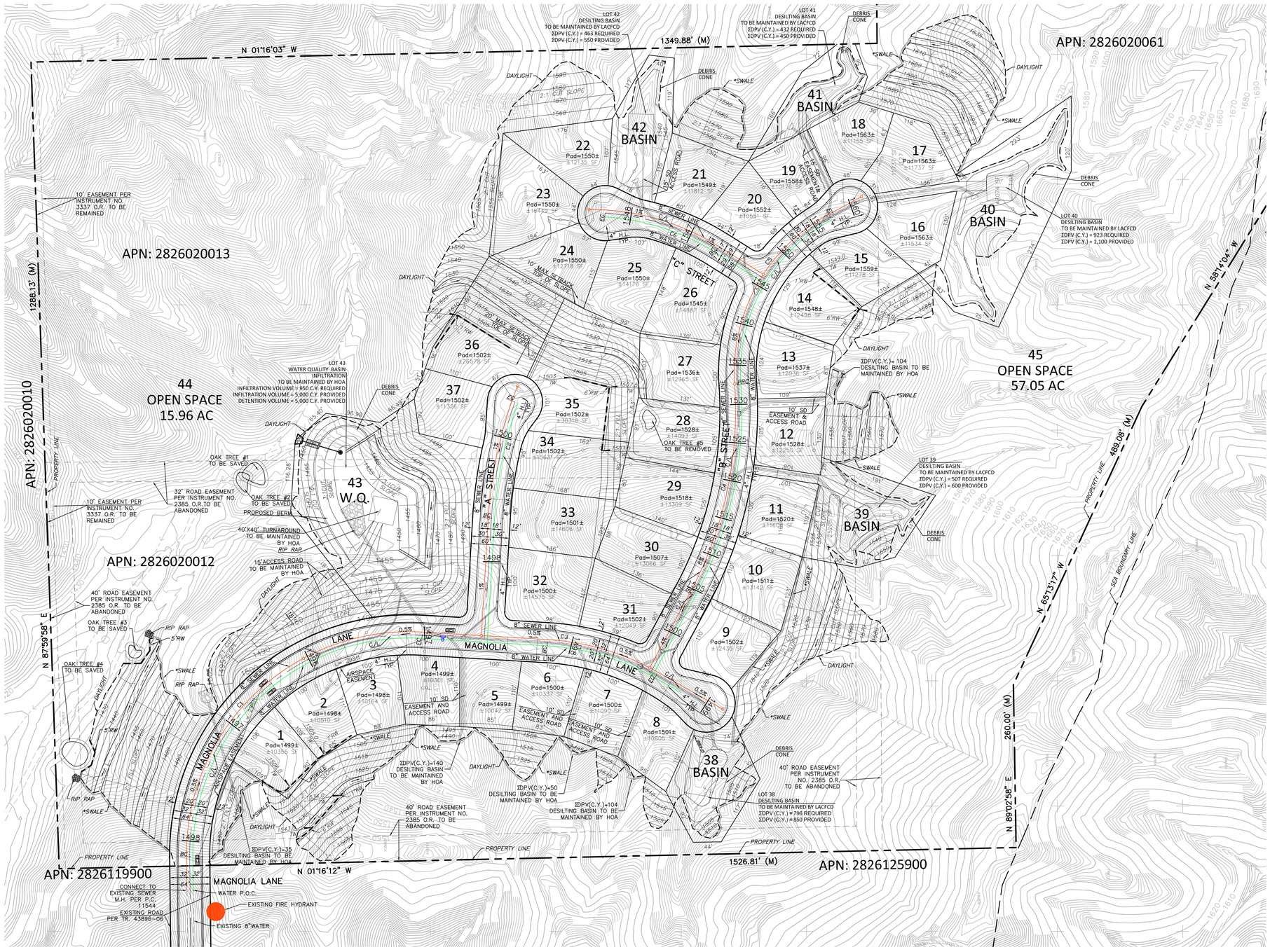
CANYON VIEW ESTATES
MAJOR LAND DIVISION
VESTING TENTATIVE TRACT NO. 74650
LOCATED IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA
SCALE: AS NOTED
SHEET 1 OF 2 SHTS

CURVE DATA

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	94°05'16"	350.00'	574.75'	375.91'
C2	15°59'08"	680.00'	189.72'	95.48'
C3	26°13'25"	400.00'	183.08'	93.17'
C4	32°09'11"	620.00'	347.93'	178.68'
C5	65°40'18"	281.00'	322.08'	181.34'
C6	28°40'19"	378.72'	189.52'	96.79'

NOTE

* ALL SWALES SHOULD HAVE A MINIMUM OF 5% SLOPE FOR SELF CLEANING VELOCITY



LEGAL DESCRIPTION:

File No: 416240446

EXHIBIT "A"

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF LOS ANGELES, STATE OF California, DESCRIBED AS FOLLOWS:

PARCEL 1:

THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF FRACTIONAL SECTION 5, TOWNSHIP 3 NORTH, RANGE 16 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

EXCEPT THEREFROM ALL OIL, GAS, MINERALS AND HYDROCARBON SUBSTANCES BELOW A DEPTH OF 500 FEET BUT WITHOUT THE RIGHT OF SURFACE ENTRY TO REMOVE OR RECOVER SAME, AS RESERVED BY HESTER L. WILSON A WIDOW, AND ELSIE WILSON CASAD, A MARRIED WOMAN IN DEED RECORDED JUNE 17, 1966 AS INSTRUMENT NO. 1315

PARCEL 2:

THE EAST ONE HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF FRACTIONAL SECTION 5, TOWNSHIP 3 NORTH, RANGE 16 WEST, SAN BERNARDINO MERIDIAN, IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA

PARCEL 3:

THAT PORTION F THE SOUTHEAST QUARTER OF SECTION 5, TOWNSHIP 3 NORTH, RANGE 16 WEST, SAN BERNARDINO MERIDIAN IN THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA, WHICH LIES WITHIN THE FOLLOWING DESCRIBED BOUNDARIES:

BEGINNING AT THE NORTHWESTERLY CORNER OF SAID SOUTHEAST QUARTER; THENCE ALONG THE WESTERLY LINE OF SAID SOUTHEAST QUARTER SOUTH 00° 57' 02" EAST 215.00 FEET; THENCE AT RIGHT ANGLES TO SAID WESTERLY LINE NORTH 89° 02' 58" EAST 260.00 FEET; THENCE SOUTH 65° 13' 17" EAST 489.08 FEET; THENCE SOUTH 58° 14' 04" EAST 859.43 FEET; THENCE SOUTH 38° 28' 44" EAST 713.00 FEET; THENCE SOUTH 56° 48' 53" EAST 905.37 FEET TO A POINT IN THE EASTERLY LINE OF SAID SOUTHEAST QUARTER DISTANT SOUTH 01° 29' 47" EAST 1938.44 FEET FROM THE SOUTHERLY BOUNDARY OF TRACT NO. 45308 AS PER MAP FILED IN BOOK 1222 PAGES 36 TO 45 INCLUSIVE OF MAPS, RECORDS OF SAID COUNTY; THENCE ALONG SAID EASTERLY LINE NORTH 01° 29' 47" WEST 1938.44 FEET TO THE SOUTHERLY BOUNDARY SAID SOUTHERLY BOUNDARY ALSO BEING THE NORTHERLY LINE OF SAID SOUTHEAST QUARTER; THENCE ALONG THE NORTHERLY LINE OF SAID SOUTHEAST QUARTER SOUTH 89° 38' 47" WEST 2589.06 TO THE POINT OF BEGINNING, SAID LAND IS SHOWN AS PARCEL 1 OF THAT CERTAIN CERTIFICATE OF COMPLIANCE RECORDED NOVEMBER 15, 2002 AS INSTRUMENT NO. 02-2765315 OF OFFICIAL RECORDS

EXCEPT THEREFROM AN UNDIVIDED TWO PERCENT OF ALL OIL, GAS, GOLD, SILVER, AND OTHER PRECIOUS METALS, MINERALS AND MINERAL SUBSTANCES IN AND UNDER AND THAT MAY BE PRODUCED FROM SAID LAND, TOGETHER WITH THE RIGHT OF INGRESS AND EGRESS AT ALL TIMES FOR THE PURPOSES OF MINING, DRILLING AND EXPLORING SAID LANDS FOR ANY AND ALL OIL, GAS, MINERAL AND MINERALS SUBSTANCES AND REMOVING THE SAME THEREFROM; TOGETHER WITH ALL THE DIPS, SPURS AND ANGLES AND ALSO ALL THE METALS, ORES, GOLD AND SILVERBEARING QUARTZ, ROCK AND EARTH, MINERAL AND MINERAL SUBSTANCES THEREIN AND ALL RIGHTS, PRIVILEGES AND ADVANTAGES THERETO INCIDENT, APPENDANT AND APPURTENANT OR THEREWITH USUALLY HAD AND ENJOYED AS GRANTED TO R. A. GANAHL, A SINGLE MAN IN DEED RECORDED JUNE 14, 1937 IN BOOK 15045 PAGE 173 OF OFFICIAL RECORDS

File No: 416240446

ALSO EXCEPT THEREFROM AN UNDIVIDED ONE PERCENT OF ALL OIL, GAS AND OTHER HYDROCARBON SUBSTANCES AND MINERAL WHICH MAY LIE, IN, ON, UNDER OR BE HEREAFTER PRODUCED, SAVED OR SOLD FROM SAID LAND WITH THE RIGHT OF INGRESS AND EGRESS THERETO AS GRANTED TO JOSEPH W. AIDLIN, IN DEED RECORDED JANUARY 19, 1940 IN BOOK 17241 PAGE 29 OF OFFICIAL RECORDS

ALSO EXCEPT THEREFROM 1/4[TH] OF AN UNDIVIDED PERCENT OF ALL OIL, GAS, AND OTHER HYDROCARBON SUBSTANCES AND MINERALS WHICH MAY LIE, IN, ON, UNDER OR BE HEREAFTER PRODUCED, SAVED OR SOLD FROM SAID LAND WITH THE RIGHT OF INGRESS AND EGRESS THERETO AS GRANTED TO JOSEPH W. AIDLIN AND MARY AIDLIN, HUSBAND AND WIFE AS JOINT TENANTS IN DEED RECORDED APRIL 6, 1948 IN BOOK 26865 PAGE 77 OF OFFICIAL RECORDS

BY AN AGREEMENT DATED OCTOBER 1, 1959 AND RECORDED DECEMBER 31, 1959 AS INSTRUMENT NO. 4607 IN BOOK M420 PAGE 171 OF OFFICIAL RECORDS, THE HOLDERS OF THE ABOVE INTEREST WAIVED AND RELINQUISHED ANY RIGHT TO ENTER UPON THE SURFACE OR SUBSURFACE TO A DEPTH OF 500 FEET MEASURED VERTICALLY FROM THE SURFACE OF SAID LAND FOR ANY PART THEREOF, FOR THE PURPOSE OF EXERCISING ANY OF THEIR SAID RESPECTIVE RIGHTS

PARCEL 4:

ANY AND ALL EASEMENTS, RIGHTS AND RIGHTS OF WAY, FOR ACCESS, INSTALLATION AND MAINTENANCE OF UTILITIES OR COMMUNICATION SERVICES OF RECORD, APPURTENANT OR ATTACHED TO OR UTILIZED BY ANY OF THE AFORESAID PARCELS

APN'S: 2826-020-012, 2826-020-013 AND 2826-020-061

UNDERGROUND SERVICE ALERT call TOLL FREE 1-800-422-4133
CALL TWO WORKING DAYS BEFORE YOU DIG

REVISION BLOCK

REV#	APPR	DATE	REVISION DESCRIPTION	PLAN CHK	APPR	DATE
				CITY ENGR	APPR	DATE

PREPARED BY:
Design Drafting inc.
IMAD ABOULMOUAH R.C.E. C51299
885 Patriot Drive, Unit C
Moorpark, CA 93021
Phone: 805.523.2632
Fax: 805.426.8016
email: DDI@weddesigndrafting.com
DATE

CANYON VIEW ESTATES
MAJOR LAND DIVISION
VESTING TENTATIVE TRACT NO. 74650
LOCATED IN THE UNINCORPORATED TERRITORY OF THE COUNTY OF LOS ANGELES, STATE OF CALIFORNIA
SCALE: AS NOTED

SHEET 2 OF 2 SHTS

Plot Date: Mon, January 08, 2018

SEWER AREA STUDY-TRACT 74650

AREA SERVED FULL TRIBUTARY DEVELOPMENT AREA
(INCLUDING EXISTING, PROPOSED, AND FUTURE DEVELOPMENT)

SUMMARY		Sub Area	Area		Calculated Flow (cfs)	Approved Q (cfs)
LA County	Proposed	1A	37	DU	0.037	6.238 from LA County
	Future	2B - 2O, 2R-2Y, & 4A- 4B	680.20	Acres	0.399	
	Existing	1B, 2P, 2Q, 3A - 3C, 4C, 5A, 7A -7C, 8A - 8E, 9A, & 10A – 10Z	212.19	Acres	5.801	
			2766	DU		
			1784	Students		
City of Santa Clarita	Existing	11A-11B, 12A, 13A-13B, 14A, 15A-15E, 16A-16B, & 17A-17E	138.39	Acres	1.823 from City of Santa Clarita	
			1558	DU		
			2097	Students		

TRACT NO. 74650 - SEWER AREA STUDY
JUNCTION CALCULATION - EXISTING - PROPOSED - FUTURE

				AREA			Zoning Coefficient	Commula Flow	EXISTING Cumulative Flow
	Tract #	Sub Area	Zoning	Acres	DU	Students	(cfs/acre)	(cfs)	(cfs)
	74650	1A	A-2-2		37		0.0010	**0.037**	
	43896-06	1B	R-A-10000		40		0.0010	0.040	0.040
	43896-02		R-A-10000		10		0.0010	0.010	0.010
REACH 1								**0.087**	**0.050**
		2A	O-S	117.50			0.0000	0.000	
	2826-70	2B	A-2-2	12.45			0.0005	0.006	
	2826-9	2C	A-2-2	11.74			0.0005	0.006	
	2826-9	2D	A-2-2	57.00			0.0005	0.029	
	2826-9	2E	A-2-2	95.41			0.0005	0.048	
	2826-20	2F	A-2-2	10.01			0.0005	0.005	
	2826-20	2G	A-2-2	10.00			0.0005	0.005	
	2826-20	2H	A-2-2	40.00			0.0005	0.020	
	2826-20	2I	A-2-2	20.00			0.0005	0.010	
	2826-20	2J	A-2-2	15.00			0.0005	0.008	
	2826-20	2K	A-2-2	5.00			0.0005	0.003	
	2826-20	2L	A-2-2	14.86			0.0005	0.007	
	2826-20	2M	A-2-2	33.00			0.0005	0.017	
	2826-20	2N	A-2-2	40.00			0.0005	0.020	
	2826-20	2O	A-2-2	39.53			0.0005	0.020	
	52908	2P	A-2-2		19		0.0010	0.019	0.019
	2826-20	2R	A-2-2	9.27			0.0005	0.005	
	2826-20	2S	A-2-2	38.00			0.0005	0.019	
	2826-20	2T	A-2-2	18.92			0.0005	0.009	
	2826-20	2U	A-2-2	18.92			0.0005	0.009	
	2826-20	2V	A-2-2	11.30			0.0005	0.006	
	2826-97	2X	A-2-2	9.49			0.0005	0.005	
	43896-01	2Y	A-2-2	10.66			0.0005	0.005	
	43896-02	2Q	R-A-10000		45		0.0010	0.045	0.045
	43896-03		R-A-10000		13		0.0010	0.013	0.013
	43896-04		R-A-10000		32		0.0010	0.032	0.032
	43896-05		R-A-10000		22		0.0010	0.022	0.022
	43896-07		R-A-10000		66		0.0010	0.066	0.066
	43886		R-A-10000		53		0.0010	0.053	0.053
REACH 2								**0.597**	**0.300**
	49761	3A	R-1-5000		243		0.0010	0.243	0.243
	49760	3B	R-1-5000		173		0.0010	0.173	0.173
	33698	3C	RPD-5000-6U		195		0.0010	0.195	0.195
REACH 3								**1.308**	**0.911**
	2826-20	4A	A-2-2	9.40			0.0005	0.005	
	2826-20	4B	RPD-5000-6U	22.40			0.006	0.134	
	48208	4C	RPD-1-3.3U	10.34			0.003	0.031	0.031
REACH 4								**1.378**	**0.942**
		5A	S			969	0.000039	0.037	0.037
REACH 5								**1.416**	**0.980**
REACH 6			NOT IN USE						
	33608-04	7A	RPD-5000-10U	5.67			0.0100	0.057	0.057
	33608-03	7B	RPD-5000-32U	11.00			0.0320	0.352	0.352
	44806	7C	C-3-DP	14.32			0.0150	0.215	0.215
REACH 7								**2.039**	**1.603**
	45638	8A	R-3-DP	27.33			0.0120	0.328	0.328
	2826-63	8B	C-3	11.08			0.0150	0.166	0.166
	2826-10	8C	C-3	3.17			0.0150	0.048	0.048
	2826-63	8D	C-3	2.60			0.0150	0.039	0.039
	44806	8E	C-3-DP	4.67			0.0150	0.070	0.070
REACH 8								**2.698**	**2.254**
	33608-01	9A	RPD-5000-32U	9.20			0.0320	0.294	0.294
REACH 9								**2.985**	**2.548**
	49100	10A	R-1-5000		138		0.0010	0.138	0.138
		10B	S			815	0.000039	0.032	0.032
	44337	10C	RPD-1-16U	4.07			0.0160	0.065	0.065
	44336	10D	RPD-1-16U	4.60			0.0160	0.074	0.074
	33698	10E	RPD-5000-6U		267		0.0010	0.267	0.267
	44353	10F	RPD-1-16U		80		0.0010	0.080	0.080
	44340	10G	RPD-1-2SU		75		0.0010	0.075	0.075
	33608-02	10H	RPD-5000-20U		140		0.0010	0.140	0.140
	49762	10Y	RPD-5000-6U		171		0.0010	0.171	0.171
	49099	10J	RPD-1-11U		184		0.0010	0.184	0.184
	33698	10K	RPD-5000-6U		81		0.0010	0.081	0.081
	33698	10L	RPD-5000-6U	17.14			0.0060	0.103	0.103
	44338	10M	RPD-1-16U	16.16			0.0160	0.259	0.259
	33698	10N	RPD-5000-6U	23.36			0.0060	0.140	0.140
	44339	10P	RPD-1-16U	14.27			0.0160	0.228	0.228
	33698	10R	C-3	5.07			0.0150	0.076	0.076
	2826-95	10S	C-3-DP	9.04			0.0150	0.136	0.136
	2826-96		C-3-DP	19.10			0.0150	0.287	0.287
	33613	10T	R-1-5000		298		0.0010	0.298	0.298
	49761	10V	R-1-5000		178		0.0010	0.178	0.178
	49760	10X	R-1-5000		116		0.0010	0.116	0.116
	49099	10Z	RPD-5000-6U		127		0.0010	0.127	0.127
REACH 10								**6.238**	**5.801**
	27567	11A	UR3		44		0.0010	0.044	0.044
	27288		UR3		29		0.0010	0.029	0.029
		11B	OS	125.62			0.0002	0.025	0.025
REACH 11								**6.336**	**5.900**
	27567	12A	UR3		33		0.0010	0.033	0.033
	27566		UR3		62		0.0010	0.062	0.062
REACH 12								**6.431**	**5.995**
	35768	13A	UR3		32		0.0010	0.032	0.032
	27568		UR3		1		0.0010	0.001	0.001
	27703		UR3		4		0.0010	0.004	0.004
	35769		UR3		232		0.0010	0.232	0.232
	27288		UR3		45		0.0010	0.045	0.045
	27265	13B	UR3		86		0.0010	0.086	0.086
	27266		UR3		11		0.0010	0.011	0.011
REACH 13								**6.842**	**6.406**
	27703	14A	UR3		82		0.0010	0.082	0.082
REACH 14								**6.924**	**6.488**
		15A	U			1471	0.000077	0.114	0.114
	36300	15B	UR5 (3DU/AC)		71		0.0010	0.071	0.071
	44427		UR5 (3DU/AC)		236		0.0010	0.236	0.236
	PM 83-31-33	15C	CN	0.96			0.0150	0.014	0.014
	31116		CN	5.69			0.0150	0.085	0.085
	41416	15D	UR3 (11DU/AC)	2.22	24		0.0010	0.024	0.024
	28670	15E	UR2		126		0.0010	0.126	0.126
REACH 15								**7.595**	**7.159**
	28673	16A	UR2		76		0.0010	0.076	0.076
		16B	S			626	0.000039	0.024	0.024
REACH 16								**7.695**	**7.259**
	31342	17A	UR2		62		0.0010	0.062	0.062
	28672	17B	UR2		70		0.0010	0.070	0.070
	28673	17C	UR2		6		0.0010	0.006	0.006
	28671	17D	UR2		115		0.0010	0.115	0.115
	28671		OS	6.12			0.0002	0.001	0.001
	28670	17E	UR2		111		0.0010	0.111	0.111
REACH 1	TRUNK							**8.060**	**7.624**

LEGEND:

- EXISTING SEWER LINE
- UPGRADE
- PROPOSED SEWER LINE
- TRIBUTARY AREA
- RIDGE LINE
- TRACT BOUNDARY
- SEWER FLOW DIRECTION
- FLOW DIRECTION OR STREAM
- EXISTING SEWER MANHOLE
- PROPOSED SEWER MANHOLE
- (1) REACH NODE

SUB AREA — 1B | 50 | 0.050 — AREA (ACRES, UNITS, # OF STUDENTS)
ZONING DISTRICT ID — A-2-2 — AVG. DAILY FLOW (CFS)

400 200 0 200 400 800
GRAPHIC SCALE
SCALE : 1"=400'

PREPARE FOR :
JON FRIEDMAN
1435 REYNOLDS COURT
THOUSAND OAKS, CA 91362
PHONE: 805-373-2860

REVIEWED LAND DEVELOPMENT DIVISION
BY _____
ROAD AND GRADING SECTION DATE

NO.	REVISIONS	REVISED BY	APPROVED BY	DATE

REGISTERED PROFESSIONAL ENGINEER — TAREK ABOUZAHRAH — No. 51299 — Exp. 6-30-18 — CIVIL — STATE OF CALIFORNIA

PROJECT ENGINEER DATE

CANYON VIEW ESTATES–TRACT NO. 74650
SEWER AREA STUDY – PC 12338AS

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

civil Design & Drafting inc.
885 Patriot Drive, Unit C
Moorpark, California 93021
Phone: 805-522-2622
Fax: 805-426-8016
email: CDD@civildesignanddrafting.com

SHEET 1 OF 1

PLOT DATE: 2-21-2018

\\CDD-NETWORK\Projects\Oakridge\Sewer Area Study\Sewer Area Study Map.dwg
16:35:39 02 / 21 / 2018

Los Angeles County General Plan

SANTA CLARITA VALLEY AREA PLAN

Zoning Map

LEGEND

- R-1 - Single-family residence
- R-2 - Two-family residence
- R-3-(U) - Limited multiple residence
- R-4-(U) - Unlimited residence
- R-A - Residential agriculture
- RPD - Residential planned development
- A-1 - Light agriculture
- A-2 - Heavy agriculture
- C-H - Commercial highway
- C-1 - Restricted business
- C-2 - Neighborhood commercial
- C-3 - Unlimited commercial
- C-M - Commercial manufacturing
- CPD - Commercial planned development
- C-R - Commercial recreation
- M-1 - Light manufacturing
- M-2 - Heavy manufacturing
- M-3 - Unclassified
- M-4 - Unlimited manufacturing
- M-2.5 - Aircraft, heavy industrial
- MPD - Manufacturing industrial planned development
- D-2 - Desert-Mountain
- IT - Institutional
- SP - Specific Plan
- B-1 - Buffer strip
- B-2 - Corner buffer
- R-R - Resort and recreation
- W - Watershed
- P-R - Restricted parking
- SR-D - Scientific research and development
- O-S - Open space
- A-C - Arts and crafts
- MXD - Mixed use development

Base Features

- Parcels
- City / Unincorporated Community Boundary
- Surrounding City
- Surrounding Unincorporated Community
- Water Feature
- National Forest

Overlays

- Significant Ecological Areas

Transit Lines

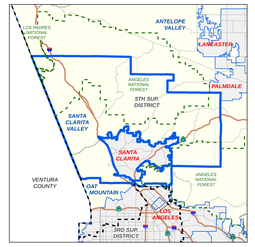
- Metrolink Stations
- Metro Rail Stations
- Metrolink
- Transitways
- Light Rail - Existing
- Light Rail - Proposed
- Light Rail - Under Construction

NOTES:

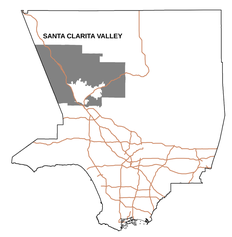
The location of zoning boundaries is as accurate as can be portrayed at this scale. For more precise boundary locations, please contact the Land Development Coordinating Center (LDCC) at (213) 974-6411.

Parcel boundaries are from the parcel database maintained by the Department of Public Works and the Assessor's Office. Parcels shown on the map reflect the most recent update from the Assessor's Office as of February 2012.

VICINITY MAP:



KEY MAP:



Current as of: September 2012

LOS ANGELES COUNTY
Department of Regional Planning
320 W. Temple St.
Los Angeles, CA 90012

Scale in Feet

0 3,500 7,000 10,500 14,000

City of Santa Clarita

Zoning Map

Last Update: September 2015

Urban Residential
- UR1 = 2.0 du/a
- UR2 = 5.0 du/a
- UR3 = 11.0 du/a
- UR4 = 18.0 du/a
- UR5 = min. 18 du/a - max. 30.0 du/a

Non-Urban Residential
- NU1 = 0.05 du/a
- NU2 = 0.1 du/a
- NU3 = 0.2 du/a
- NU4 = 0.5 du/a
- NU5 = 1.0 du/a

Commercial
- CC - Community Commercial
- CN - Neighborhood Commercial
- CR - Regional Commercial

Open Space
- OS-NF - Open Space—National Forest
- OS-A - Open Space—Agriculture
- OS - Open Space
- OS-BLM - Open Space—Bureau of Land Management

Mixed Use
- CP - Corridor Plan
- MX-C - Mixed Use - Corridor
- MX-N - Mixed Use - Neighborhood

Industrial
- BP - Business Park
- I - Industrial

Other
- PI - Public/Institutional

Specific Plan
- SP

Boundaries
- City Boundary
- Zoning Boundary

N

0 0.25 0.5 Miles

Map prepared by: City of Santa Clarita GIS Division

Q:\PROJECTS\MASTERZONING\mxd\UDC_zoning_lite.mxd

REFERENCES

COUNTY SANITATION DISTRICTS
OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422
www.lacsd.org

GRACE ROBINSON HYDE
Chief Engineer and General Manager

November 17, 2017

Ref. Doc. No.: 4354110

Mr. Imad Aboujawdah, President
Civil Design and Drafting, Inc.
885 Patriot Drive, Unit C
Moorpark, CA 91302

Dear Mr. Aboujawdah:

Will Serve Letter Update for Tract Map No. 74650

The Santa Clarita Valley Sanitation District (District) received your will serve letter request for the subject project on October 30, 2017. The proposed project is located within the jurisdictional boundaries of the District. Previous comments submitted by the Districts in correspondence dated December 7, 2016 (copy enclosed) still apply the subject project with the following updated information:

1. The Santa Clarita Valley Joint Sewerage System currently produces an average recycled water flow of 17.9 million gallons per day.

2. All other information concerning Districts' facilities and sewerage service stated in the enclosed copy is current.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717.

Very truly yours,

FOR:

Adriana Raza
Customer Service Specialist
Facilities Planning Department

AR:ar

cc: M. Sullivan
M. Tatalovich

DOC: #4354385.SCVD99

WATER RECLAMATION
SOLID WASTE MANAGEMENT

COUNTY SANITATION DISTRICTS OF LOS ANGELES COUNTY

1955 Workman Mill Road, Whittier, CA 90601-1400
Mailing Address: P.O. Box 4998, Whittier, CA 90607-4998
Telephone: (562) 699-7411, FAX: (562) 699-5422
www.lacsd.org

GRACE ROBINSON HYDE
Chief Engineer and General Manager

December 7, 2016

Ref File No.: 3967008

Ms. Samantha Kenewell
Civil Design and Drafting, Inc.
885 Patriot Drive, Unit C
Moorpark, CA 93021

Dear Ms. Kenewell:

Will Serve Letter for Tract Map No. 74650

This is in response to your request for a will serve letter for the subject project, which was received by the Santa Clarita Valley Sanitation District (District) on November 10, 2016. We offer the following comments regarding sewerage service:

1. The project area is outside the jurisdictional boundaries of the District and will require annexation into the District before sewerage service can be provided to the proposed development. For a copy of the District's Annexation Information and Processing Fee sheets, go to www.lacsd.org, Wastewater & Sewer Systems, Will Serve Program, and click on the appropriate link. For more specific information regarding the annexation procedure and fees, please contact Ms. Donna Curry at (562) 908-4288, extension 2708.

2. The wastewater flow originating from the proposed project will discharge to a local sewer line, which is not maintained by the District, for conveyance to either or both the District's Valencia Trunk Sewer, located in Orcharge Village Road east of Wiley Canyon Road, or the District No. 32 Main Trunk Sewer, located in a private right of way northeast of the intersection of Wiley Canyon Road and Orchard Village Road. The District's 24-inch diameter Valencia Trunk Sewer has a capacity of 5.5 million gallons per day (mgd) and conveyed a peak flow of 4.3 mgd when last measured in 2016. The District's 18-inch diameter District No. 32 Main Trunk Sewer has a capacity of 3.3 mgd and conveyed a peak flow of 2 mgd when last measured in 2013.

3. The District operates two water reclamation plants (WRPs), the Saugus WRP and the Valencia WRP, which provide wastewater treatment in the Santa Clarita Valley. These facilities have a combined capacity of 28.1 mgd and currently process an average flow of 18.2 mgd.

4. The expected average wastewater flow from the proposed project, described in the application as 37 proposed single family homes, is 9,620 gallons per day. For a copy of the District's average wastewater generation factors, go to www.lacsd.org, Wastewater & Sewer Systems, click on Will Serve Program, and click on the Table 1, Loadings for Each Class of Land Use link.

5. The District is empowered by the California Health and Safety Code to charge a fee for the privilege of connecting (directly or indirectly) to the District's Sewerage System or for increasing the strength or quantity of wastewater discharged from connected facilities. This connection fee is a capital facilities fee that is imposed in an amount sufficient to construct an incremental expansion of the Sewerage System to accommodate the proposed project. Payment of a connection fee will be required before a permit to connect to the sewer is issued. For more information and a copy of the Connection Fee Information Sheet, go to www.lacsd.org, Wastewater & Sewer Systems, click on Will Serve Program, and search for the appropriate link. In determining the impact to the Sewerage System and applicable connection fees, the District's Chief Engineer will determine the user category (e.g. Condominium, Single Family home, etc.) that best represents the actual or anticipated use of the parcel or facilities on the parcel. For more specific information regarding the connection fee application procedure and fees, please contact the Connection Fee Counter at (562) 908-4288, extension 2727.

6. In order for the District to conform to the requirements of the Federal Clean Air Act (CAA), the design capacities of District wastewater treatment facilities are based on the regional growth forecast adopted by the Southern California Association of Governments (SCAG). Specific policies included in the development of the SCAG regional growth forecast are incorporated into clean air plans, which are prepared by the South Coast and Antelope Valley Air Quality Management Districts in order to improve air quality in the South Coast and Mojave Desert Air Basins as mandated by the CCA. All expansions of District facilities must be sized and service phased in a manner that will be consistent with the SCAG regional growth forecast for the counties of Los Angeles, Orange, San Bernardino, Riverside, Ventura, and Imperial. The available capacity of District treatment facilities will, therefore, be limited to levels associated with the approved growth identified by SCAG. As such, this letter does not constitute a guarantee of wastewater service, but is to advise you that the District intends to provide this service up to the levels that are legally permitted and to inform you of the currently existing capacity and any proposed expansion of District facilities.

If you have any questions, please contact the undersigned at (562) 908-4288, extension 2717.

Very truly yours,

Adriana Raza
Customer Service Specialist
Facilities Planning Department

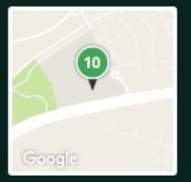
AR:dc

cc: D. Curry

DOC: #3966937.SCVD99

Pico Canyon Elementary School

Follow



K-6 | Public district | Newhall | 969 students

25255 Pico Canyon Road Stevenson Ranch, CA 91381-1658 | Contact info

10 out of 10 GreatSchools Rating

Schools serving similar student populations most often got a: **9**

SCORES ARE FROM 1 TO 10

9 Test scores for low-income students

English Proficiency (state avg 44%)	Math Proficiency (state avg 33%)
83%	68%

Report Card Quicklinks: Test scores, College readiness, Scores by student groups

School Details Quicklinks: Student demographics, Programs, Classes, Extracurriculars, Teachers

Reviews Quicklinks: Parent reviews, Student reviews, Write a review

Resources: Understand your child's **SBAC score report**

Contact this school

School leader: Laura Banda
25255 Pico Canyon Road

See this school's attendance zone

CalArts Fact Sheet

Established in 1961 by Walt and Roy Disney, California Institute of the Arts (CalArts) is the nation's first higher education institute to offer undergraduate and graduate degrees in both the visual and performing arts. CalArts is dedicated to training and nurturing the next generation of professional artists, fostering brilliance and innovation within the broadest context possible. Admission to CalArts is competitive and considered mainly on the basis of demonstrated talent, creativity and commitment. Other important considerations include educational records, recommendations and artist's statement.

Current Students

Total headcount enrollment: 1,471 students

- Undergraduate students (BFA, Certificate): 946 (64.3%)
- Graduate students (MFA, MA, DMA, Advanced Certificate): 501 (34.1%)
- Special non-degree students: 24 (1.6%)

Areas of Study (Métiers)

- 21.3% School of Art
- 3.3% School of Critical Studies
- 6.3% The Sharon Disney Lund School of Dance
- 27.1% School of Film/Video
- 19.1% The Herb Alpert School of Music
- 22.9% School of Theater

Gender

- 55.7% Female
- 44.3% Male

Geographic and National Representation

- United States: 1,168 students (79.4%) from 45 states and the District of Columbia, Puerto Rico, Guam, and the Virgin Islands
- International: 303 students (20.6%) from 47 countries

Meadows Elementary School

Follow

K-6 | Public district | Newhall | 626 students

25577 North Fedala Road Valencia, CA 91355-2536 | Contact info

9 out of 10 GreatSchools Rating

Schools serving similar student populations most often got a: **9**

SCORES ARE FROM 1 TO 10

5 Test scores for low-income students

English Proficiency (state avg 44%)	Math Proficiency (state avg 33%)
64%	51%

Report Card Quicklinks: Test scores, College readiness, Scores by student groups

School Details Quicklinks: Student demographics, Programs, Classes, Extracurriculars, Teachers

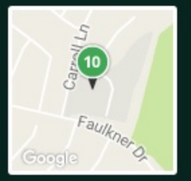
Reviews Quicklinks: Parent reviews, Student reviews, Write a review

Resources: Understand your child's **SBAC score report**

Contact this school

Stevenson Ranch Elementary School

Follow



K-6 | Public district | Newhall | 815 students

25820 North Carroll Lane Stevenson Ranch, CA 91381-1100 | Contact info

10 out of 10 GreatSchools Rating

Schools serving similar student populations most often got a: **10**

SCORES ARE FROM 1 TO 10

10 Test scores for low-income students

English Proficiency (state avg 44%)	Math Proficiency (state avg 33%)
86%	71%

Report Card Quicklinks: Test scores, College readiness, Scores by student groups

School Details Quicklinks: Student demographics, Programs, Classes, Extracurriculars, Teachers

Reviews Quicklinks: Parent reviews, Student reviews, Write a review

Resources: Understand your child's **SBAC score report**

Contact this school

School leader: Staci Block

25820 North Carroll Lane

See this school's attendance zone

Estimated Average Daily Sewage Flows for Various Occupancies

Occupancy	Abbreviation	*Average daily flow	
Apartment Buildings:			
Bachelor or Single dwelling units	Apt	100	gal/D.U. → 150
1 bedroom dwelling units	Apt	150	gal/D.U. → 200
2 bedroom dwelling units	Apt	200	gal/D.U. → 250
3 bedroom or more dwelling units	Apt	250	gal/D.U. → use 300 GPD per SMD
Auditoriums, churches, etc.	Aud	5	gal/seat
Automobile parking	P	25	gal/1000 sq ft gross floor area
Bars, cocktails lounges, etc.	Bar	20	gal/seat
Commercial Shops & Stores	CS	100	gal/1000 sq ft gross floor area
Hospitals (surgical)	HS	500	gal/bed
Hospitals (convalescent)	HC	85	gal/bed
Hotels	H	150	gal/room
Medical Buildings	MB	300	gal/1000 sq ft gross floor area
Motels	M	150	gal/unit
Office Buildings	Off	200	gal/1000 sq ft gross floor area
Restaurants, cafeterias, etc.	R	50	gal/seat
Schools:			
Elementary or Jr. High	S	10	gal/student
High Schools	HS	15	gal/student
Universities or Colleges	U	20	gal/student
College Dormitories	CD	85	gal/student

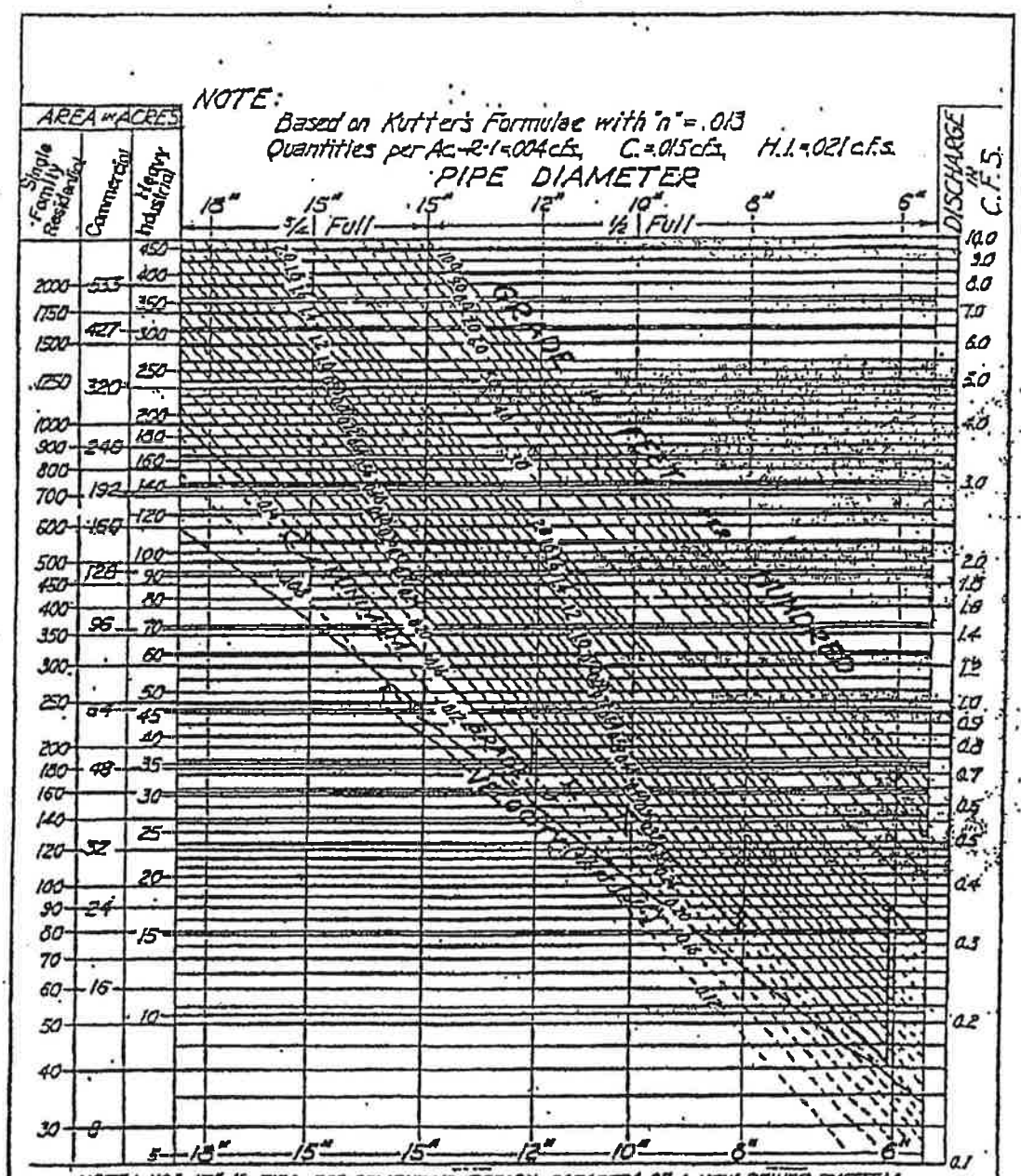
*Multiply the average daily flow by 2.5 to obtain the peak flow

Zoning Coefficients

Zone	Coefficient (cfs/Acre)
Agriculture	**0.001**
Residential+:	
R-1	**0.004**
R-2	**0.008**
R-3	**0.012**
R-4	**0.016***
Commercial:	
C-1 through C-4	**0.015***
Heavy Industrial:	
M1 through M-4	**0.021***

***Individual building, commercial or industrial plant capacities shall be the determining factor when they exceed the coefficients shown**

+ Use 0.001 (cfs/unit) for condominiums only



FLOW DIAGRAM FOR THE DESIGN OF CIRCULAR SANITARY SEWERS

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

ASSISTANT DEPUTY

COUNTY ENGINEER

COUNTY ENGINEER STANDARD S-C4

DATE: 3/80

DESIGN RCE 10043

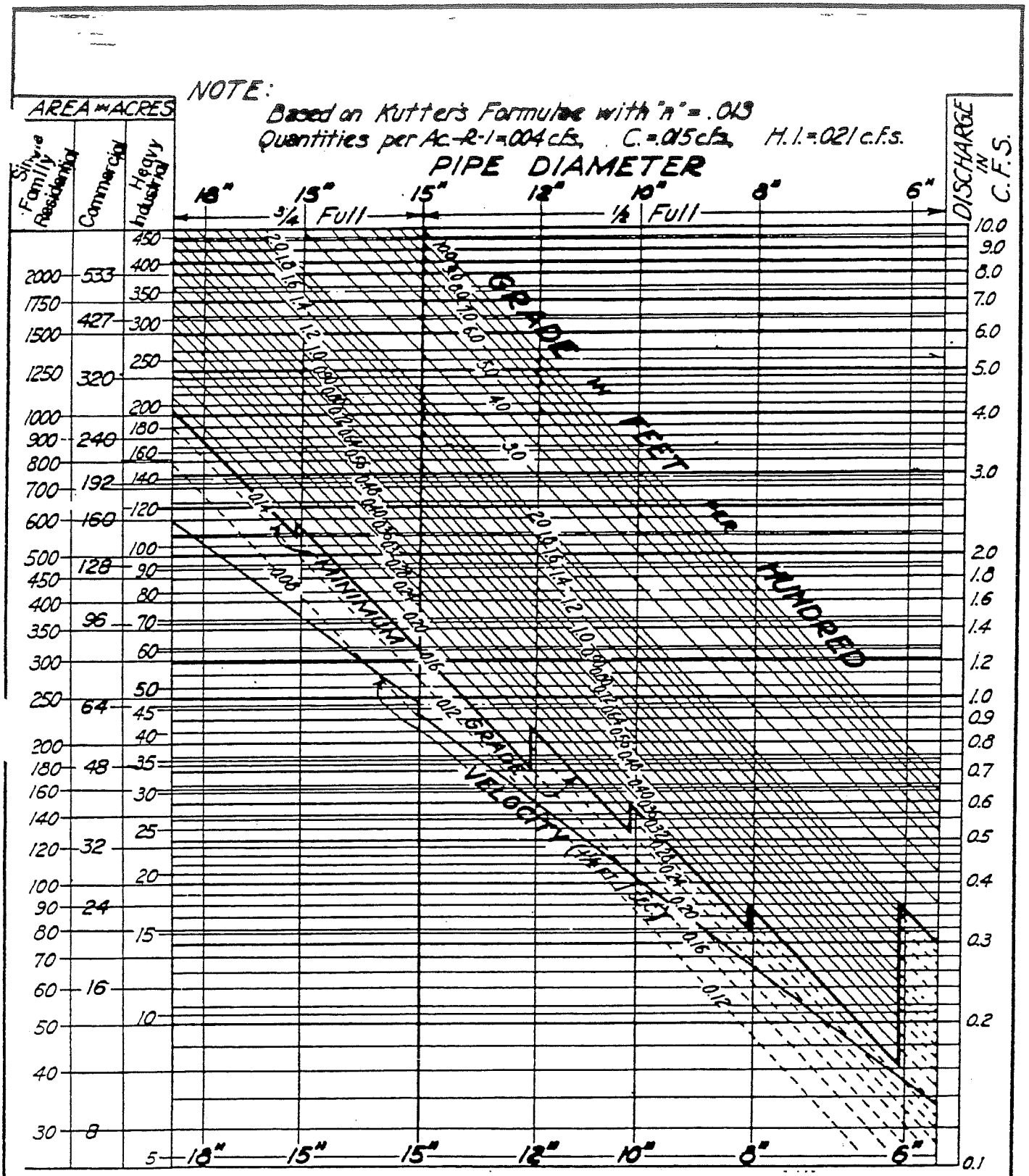
City of Santa Clarita
Development Services Division

SEWAGE FLOW COEFFICIENTS

ZONING	DESCRIPTION	COEFFICIENT (cfs/gross acreage)	COEFFICIENT (cfs/dwelling unit)
OS	Open Space	0.0002	-------
A	Agricultural - 1 single family home/ legal lot	0.0002	-------
RE	Residential Estate – large custom single family homes on uniquely configured lots	0.00075	-------
RVL	Residential Very Low Density - 1 DU/AC	0.001	0.001
RL	Residential Low Density – 2.2 DU/AC	0.0015	0.00068
RS	Residential Suburban - 5 DU/AC	0.005	0.001
RM	Residential Moderate – 11 DU/AC	0.012	0.00109
RMH	Residential Medium High – 20 DU/AC	0.015	0.00075
RH	Residential High – 28 DU/AC	0.023	0.00082
CTC	Commercial Town Center	0.015	-------
CC	Community Commercial	0.015	-------
CN	Commercial Neighborhood	0.015	-------
CO	Commercial Office	0.015	-------
VSR	Visitor Serving/Resort	0.021	-------
BP	Business Park	0.021	-------
IC	Industrial Commercial	0.021	-------
I	Industrial	0.021	-------

Notes:

- The coefficient to be used for any zoned area not listed in this table will be determined by the City Engineer based upon the intended development and use.
- Open space coefficient: this coefficient is to account for water infiltration into sewer pipe.
- Coefficients in cfs/gross acreage shall be used for areas that are not yet developed and not yet entitled.
- Coefficients in cfs/dwelling unit shall be used for developed areas and areas that are entitled.



NOTE: USE 15"- 1/2 FULL FOR COMPUTING DESIGN CAPACITY OF A NEW SEWER SYSTEM. USE 15"- 3/4" FULL FOR CHECKING CAPACITY OF EXIST. SEWER SYSTEM.

FLOW DIAGRAM FOR THE DESIGN OF CIRCULAR SANITARY SEWERS

COUNTY OF LOS ANGELES
DEPARTMENT OF PUBLIC WORKS

ASSISTANT DEPUTY

COUNTY ENGINEER

COUNTY ENGINEER STANDARD S-C4

DATE: 3/80

DESIGN RCE 10443

SEE SHT. NO. 1218

THIS MAP IS INTENDED FOR USE ONLY AS OPERATIONS MAP BY LOS ANGELES COUNTY SEWER MAINTENANCE DISTRICTS. LOS ANGELES COUNTY EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.

AUTOMATED GRAPHICS

METERS
0 50 100 200 250
0 200 400 600 800
FEET

LEGEND

- CLAY SEWERS MAINTAINED BY SMD. 8" UNLESS OTHERWISE NOTED
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWERS, LINED
- CEMENT SEWERS, LINED
- SEWERS NOT MAINTAINED BY SMD
- TRUNK SEWERS
- CITY BOUNDARY
- STANDARD MANHOLE
- DROP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- C.O. CLEANOUT
- L.H. LAMP HOLE

TOTAL MH'S THIS MAP: 84

MAP REV
01-18-06

DATA BASE REV
02-12-03

CONSOLIDATED S.M.D.

N-1219

SEE SHT. NO. N-1257

A-42
A-47

SEE SHT. NO. 1219

SEE SHT. NO. N-1297

SEE SHT. NO. N-1259

Project Site

E 4.107.000

N 4.249.000

AUTOMATED GRAPHICS

METERS
0 50 100 200 250
0 200 400 600 800
FEET

LEGEND

- CLAY SEWERS MAINTAINED BY SMD, 8" UNLESS OTHERWISE NOTED
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWERS, LINED
- CEMENT SEWERS, LINED
- FORCE MAINS
- SEWERS NOT MAINTAINED BY SMD
- TRUNK SEWERS
- CITY BOUNDARY
- STANDARD MANHOLE
- DROP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- C.O. CLEANOUT
- L.H. LAMP HOLE
- PUMP STATION

TOTAL MH'S THIS MAP: 748

MAP REV
05-05-14

DATA BASE REV
05-16-88

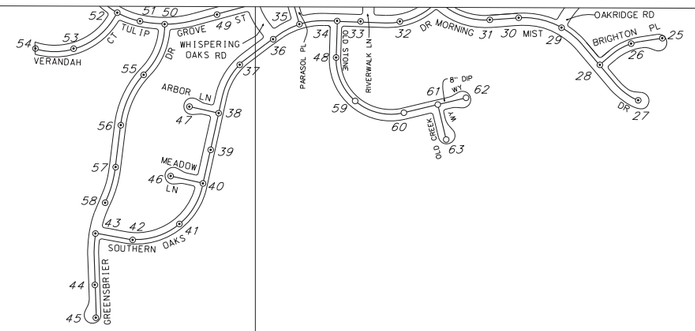
CONSOLIDATED S.M.D.

N-1258

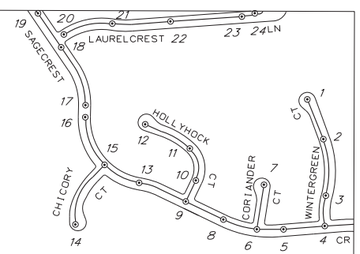
T: 4550 C-7

2307.2409.1258

SEE SHT. NO. N-1258



Project Site



A-25
A-42

THIS MAP IS INTENDED FOR USE ONLY AS OPERATIONS MAP BY LOS ANGELES COUNTY SEWER MAINTENANCE DISTRICTS. LOS ANGELES COUNTY EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.

LOS *ANGELES* *COUNTY*

SEE SHT. NO. N-1298

AUTOMATED GRAPHICS

METERS
0 50 100 200 250
0 200 400 600 800
FEET

LEGEND

- CLAY SEWERS MAINTAINED BY SMD, 8" UNLESS OTHERWISE NOTED
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWERS, LINED
- CEMENT SEWERS, LINED
- FORCE MAINS
- SEWERS NOT MAINTAINED BY SMD
- TRUNK SEWERS
- CITY BOUNDARY
- STANDARD MANHOLE
- DROP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- C.O. CLEANOUT
- L.H. LAMP HOLE
- PUMP STATION

TOTAL MH'S THIS MAP: 63

CITY OF SANTA CLARITA

1220

E 4,107,000

N 4,241,500

MAP REV
10-26-09

DATA BASE REV
08-01-88

CONSOLIDATED S.M.D.

N-1259

T: 4640 E-3

2307.2309.1259

SEE SHT. NO. N-1296

A-41
A-42
A-47
A-48
X-48

THIS MAP IS INTENDED FOR USE ONLY AS OPERATIONS MAP BY LOS ANGELES COUNTY SEWER MAINTENANCE DISTRICTS. LOS ANGELES COUNTY EXPRESSLY DISCLAIMS ANY LIABILITY FOR ANY INACCURACIES WHICH MAY BE PRESENT IN THIS MAP.

SEE SHT. NO. N-1258

SEE SHT. NO. N-1336

SEE SHT. NO. N-1298

N 4,249,000
E 4,117,000

AUTOMATED GRAPHICS

METERS
0 50 100 200 250
0 200 400 600 800
FEET

LEGEND

- CLAY SEWERS MAINTAINED BY SMD, 8" UNLESS OTHERWISE NOTED
- PLASTIC SEWERS
- CONCRETE SEWERS
- CLAY SEWERS, LINED
- CEMENT SEWERS, LINED
- FORCE MAINS
- SEWERS NOT MAINTAINED BY SMD
- TRUNK SEWERS
- CITY BOUNDARY
- STANDARD MANHOLE
- DROP MANHOLE
- SHALLOW MANHOLE
- TRAP MANHOLE
- WEIR MANHOLE
- C.O. CLEANOUT
- L.H. LAMP HOLE
- PUMP STATION

TOTAL MH'S THIS MAP: 919

MAP REV
03-19-14

DATA BASE REV
06-02-88

CONSOLIDATED S.M.D.

N-1297

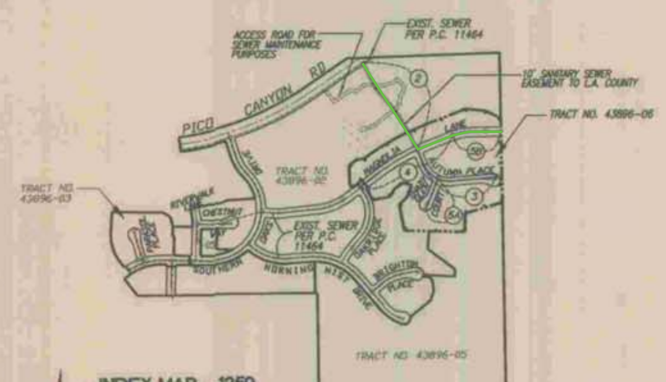
T: 4550 F-7

2311-2411-1297

BENCH MARK: L 3026

RDBM TAG IN S CB 8.2 M W/O BCR @ SW COR LYONS AVE & WILEY CYN RD 30.5M W/O & 12.2M S/O C/L INT (NR W END CB)

NEWHALL 1995 ELEV.= 1265.296



INDEX MAP - 1259

P.C. 11544 TRACT NO. 43896-06

SCALE: 1" = 600'

THOMAS GUIDE INDEX: 4640-B2

INDEX 1259

NOTE: (2) NUMBER IN CIRCLE DENOTES PAGE NOS.

BUILDING AND SAFETY SANTA CLARITA OFFICE

NO.	REVISION	REVISED BY	APPROVED BY	DATE

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR SEWER CONSTRUCTION

1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
3. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
4. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
5. Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
6. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other means.
7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water.

CA001 – DEWATERING OPERATIONS
CA002 – PAVING OPERATIONS
CA003 – STRUCTURE CONSTRUCTION AND PAINTING
CA010 – MATERIAL DELIVERY AND STORAGE
CA020 – SOLID WASTE MANAGEMENT
CA021 – HAZARDOUS WASTE MANAGEMENT
CA023 – CONCRETE WASTE MANAGEMENT
CA024 – SANITARY/SEPTIC WASTE MANAGEMENT
CA030 – VEHICLE AND EQUIPMENT CLEANING
CA031 – VEHICLE AND EQUIPMENT FUELING
CA032 – VEHICLE AND EQUIPMENT MAINTENANCE
ESC01 – SCHEDULING
ESC02 – PRESERVATION OF EXISTING VEGETATION
ESC10 – SEEDING AND PLANTING
ESC11 – MULCHING
ESC20 – GEOTEXTILES AND MATS
ESC21 – DUST CONTROLS
ESC22 – TEMPORARY STREAM CROSSING
ESC23 – CONSTRUCTION ROAD STABILIZATION
ESC24 – STABILIZED CONSTRUCTION ENTRANCE
ESC54 – STORM DRAIN INLET PROTECTION

STANDARD PLANS:

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE FOLLOWING DEPARTMENT SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS

APWA 208-0	BREAKING INTO EXISTING MANHOLES
APWA 221-1	PIPE ANCHORS AND BACKFILL STABILIZERS
APWA 222-0	HOUSE CONNECTION SEWER
APWA 223-0	HOUSE CONNECTION REMODELING
APWA 220-1	CHIMNEYS
2000-0	LEGEND FOR SANITARY SEWER PLANS AND PROFILES AND DISTRICT MAPS.
2021-0	BEDDING FOR SEWER PIPE
2024-0	WYE OR TEE SUPPORT
2027-0	ALLOWABLE TRENCH WIDTHS
2023-1	CRADLING & ENCASEMENT

~~NOTE: ISSUE NO HOUSE LATERAL CONNECTION PERMITS UNTIL OUTLET P.C. 11464 IS ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.~~

THIS SEWER PRIVATE CONTRACT ACCEPTED FOR PUBLIC USE

06/14/2005

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LAND DEVELOPMENT DIVISION

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (661) 266-4683 SO THAT REQUIRED INSPECTION CAN BE MADE.

PRIVATE CONTRACT SEWER GENERAL NOTES

The following general notes are to be included on Page 1 of all Private Contract Sewer Plans:

1. A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the Department of Public Works at the Permit Counter, 900 South Fremont Avenue, 8th Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as Road Excavation, Caltrans, etc., must be filed with the permit application.
2. Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate of Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder to be notified 30 days prior to cancellation of policy.
3. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
4. When work is within a contract city, the contractor must contact the Director of Public Works of that city, to determine the location to pay the inspection fee.
5. The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
6. Approval of this plan by the County of Los Angeles does not constitute a representation as to accuracy of the location of or the existence or non-existence of any underground utility pipe or structure within the limits of this project. This note applies to all pages.
7. All work shall be in accordance with the latest approved edition of the "Standard Specifications for Public Works Construction, including supplements and the latest Special Provisions for the Construction of Sanitary Sewers and shall be prosecuted only in the presence of the Department of Public Works
8. The contractor's attention is directed to Section 7-10.4.1 of the Standard Specifications for Public Works Construction in regard to safety orders and shall conform to the "Minimum Public Safety Requirements" as shown on Los Angeles Department of Public Works' Standard S-2.
9. Elevations are in feet above U.S.C. & G.S. sea level datum of 1929.
10. No revisions shall be made in these plans without the approval of the Director of Public Works.
11. No representative of the Department of Public Works will survey or lay out any portion of the work.
12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade points for top of curbs, centerline of streets, or centerline of alleys, are shown by circles on profiles of all points between designated points. The grade shall be established so as to conform to a straight line drawn between said designated points.
13. The private engineer shall furnish the Department of Public Works with grade sheets and stationing for all house laterals and "Y" or "T" branches and shall provide stakes for them at their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles from the main line sewer except as shown on the plans. House laterals from chimneys shall not have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
14. The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.

CONSTRUCTION NOTES

1. Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole
2. Vitrified clay pipe joints shall be type "D" or "G" per standard specifications section 208-2.
3. If a powerpole is within three feet of the sewer, the sewer shall be encased per standard plan S-23, case II, two feet on each side from the point of interference.
4. All joints between cast iron pipe and vitrified clay pipe shall be made with a rubber sleeve joint, type "D" (with bushing if necessary) per standard specifications section 208-2.
5. House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
6. Wye or tee branches may be used for connections to the mainline sewers except as noted.
7. If during the course of construction, it is determined that there is less than four feet of cover over the top of a mainline or house lateral V.C.P. sewer which is not indicated on the plans, the pipes shall be encased per standard plan S-23, case II, unless otherwise approved by the director of Public Works.
8. All structures shall be either brick sewer manholes per standard plan S-3 or precast concrete sewer manholes per standard plan S-36, or reinforced precast concrete manhole per standard plan S-6, except as noted.
9. resurface all trenches within paved areas to meet Los Angeles County Public Works or California State Highway requirements in accordance with the permits.
10. Full compliance with section 306-1.3.4. of the standard specification will be required for backfill in street certification of backfill compaction and sand equivalents by a qualified civil engineer shall be provided by the permitee prior to the issuance of a certificate of partial acceptance.
11. All backfill and fills outside of the street right of way shall be compacted to 90% of the maximum density as determined by ASTM soil compaction test D 1557-78 method "D" unless otherwise specified. This shall be certified by a qualified civil engineer. This certification shall be submitted to the Construction Division of the Department of Public Works prior to the acceptance of the work by the county.
12. Manhole tops in unimproved rights of way to be six inches above finished grade.
13. Sewers to be tested for leakage per section 306-1/4 of the standard specifications and special provisions.

PS006844

RECORD PLANS

PROFILE, ALIGNMENT AND GRADE OF SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT NO. 43896-06 PC NO. 11544

3 SHEETS: 5 PAGES

COUNTY OF LOS ANGELES CALIFORNIA

INDEX 1259

JAMES A. NOYES DIRECTOR OF PUBLIC WORKS

APPROVED BY LAND DEVELOPMENT DIVISION

BY Thomas W. Hoagland 4/12/01
ASSISTANT DIVISION ENGINEER DATE

SUBMITTED BY [signature] 4/11/01
SUBDIVISION PLAN CHECKING SECTION DATE

APPROVED: **COUNTY SANITATION DISTRICT** OF LOS ANGELES CALIF.
JAMES F. STAHL – CHIEF ENGINEER and GENERAL MANAGER

56250

COUNTY SANITATION DISTRICT NO. 32

BY [signature] for DATE: 4/13/01
OFFICE ENGINEER

TRACT NO. 43896-06 P.C. 11544

PRIVATE ENGINEERS NOTICE TO CONTRACTORS:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1-800-422-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT 1-805-948 4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.

Warren L. Smith Apr. 10, 2001
RCE NO. 13818 DATE

SEE CONSTRUCTION NOTE NO. 11 ON SHEET 1 FOR COMPACTION REQUIREMENTS

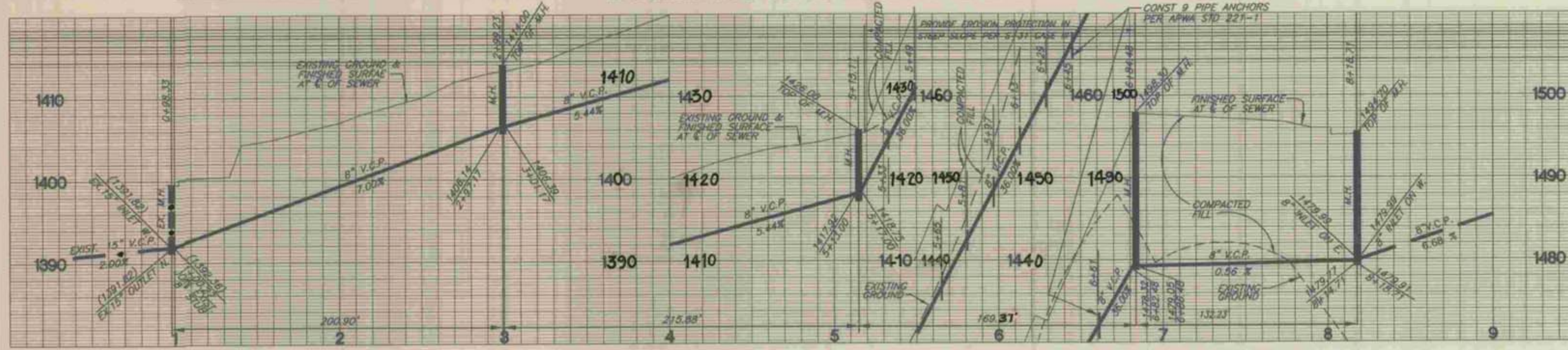
P.C. **11544** PAGE **2**

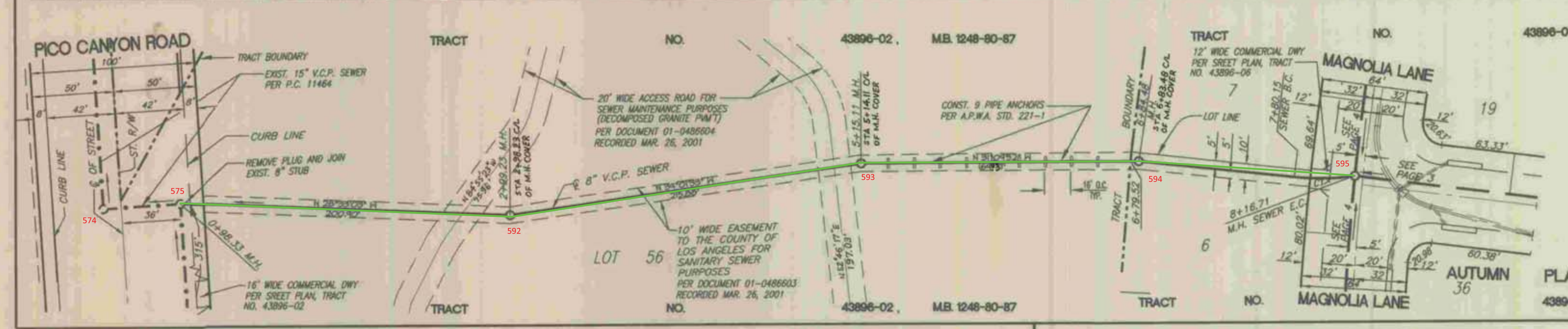
NO L.A. CO. CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES

TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE





CURVE DATA:

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	13°57'56"	150.00'	36.56'	18.37'

1"=40' GRAPHIC SCALE

PLAN SCALE: 1" = 40'

SANITARY SEWER PLANS IN TRACT NO. 43896-06 PC NO. 11544

REVIEWED BY LAND DEVELOPMENT DIVISION

BY M.D. [signature] 4-11-01
SUBDIVISION PLAN CHECKING SECTION DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

REGISTERED PROFESSIONAL ENGINEER WARREN L. SMITH No. 13818 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

Warren L. Smith 4.10.01
PROJECT ENGINEER DATE

SR CONSULTANTS, INC.

ENGINEERING LAND PLANNING LAND SURVEYING

2698 MATARO STREET
PASADENA, CALIFORNIA 91107-3112
Phone : (626) 683-0430

TRACT NO. 43896-06

FILE I:\PROJECTS\891-001 AIDLIN\SEWER\TR43896-06\Sheet1.dwg
REV. 03-28-01

P.C. 11544 PAGE 3

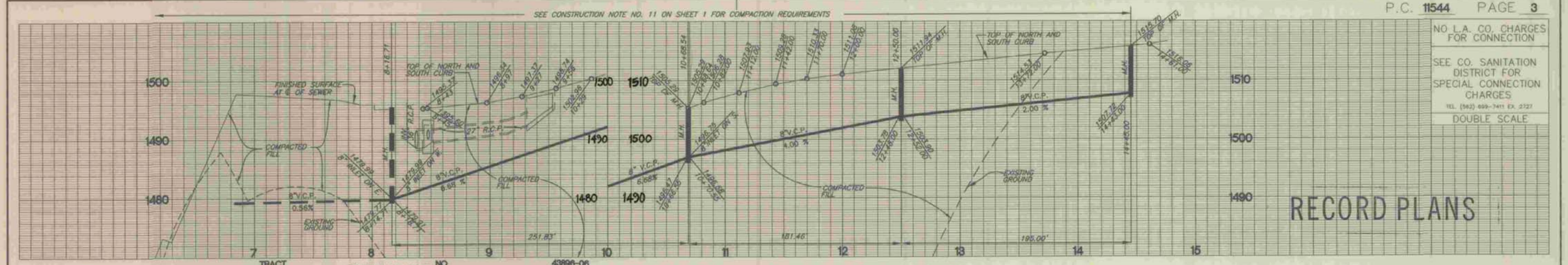
SEE CONSTRUCTION NOTE NO. 11 ON SHEET 1 FOR COMPACTION REQUIREMENTS

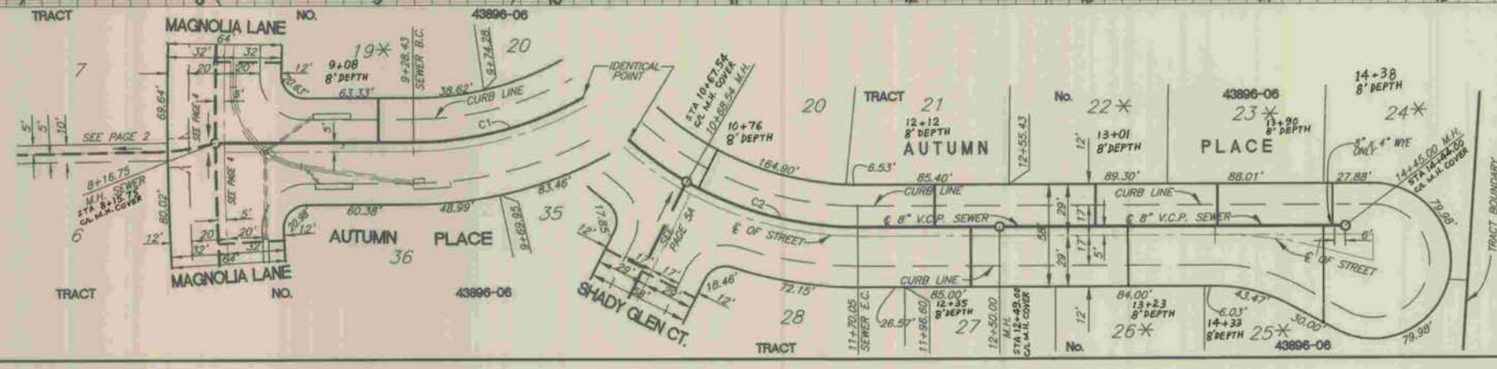
NO L.A. CO. CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE

RECORD PLANS





PLAN
SCALE: 1" = 40'

CURVE DATA:

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	41°10'18"	195.00'	140.11'	73.24'
C2	29°49'15"	195.00'	101.50'	51.92'

56252

REGISTERED PROFESSIONAL ENGINEER WARREN L. SMITH No. 13818 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

4-10-01

REVIEWED BY LAND DEVELOPMENT DIVISION
BY M.Q. Espinoza 4-11-01
SUBDIVISION PLAN CHECKING SECTION DATE

* INDICATES BACKWATER VALVES MAYBE REQUIRED FOR THESE LOTS.

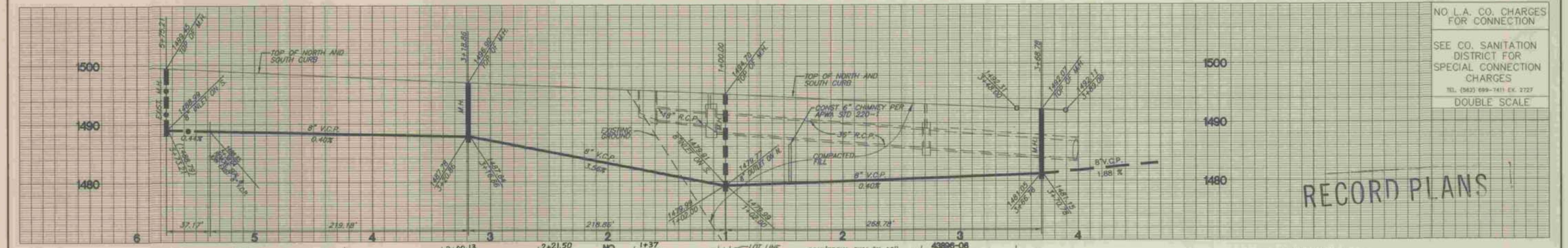
P.C. 11544 PAGE 4

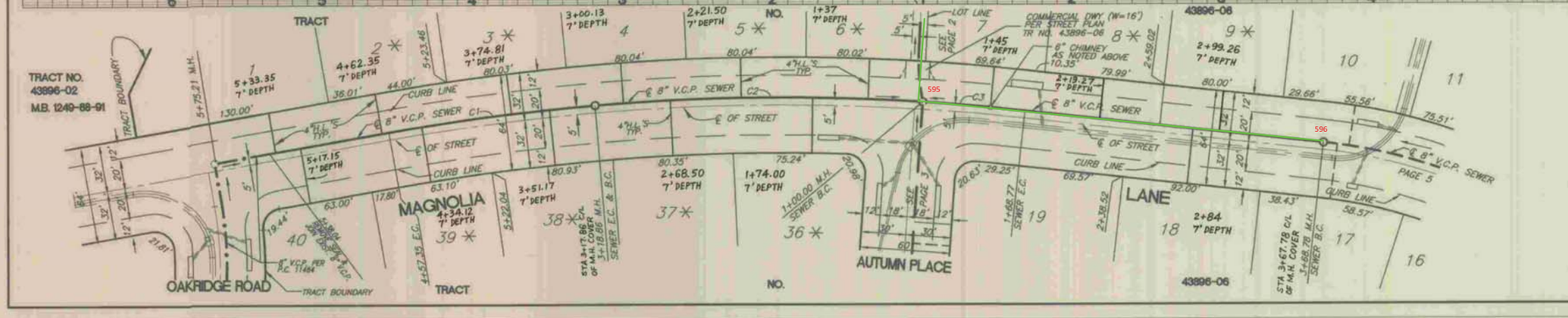
NO L.A. CO. CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE

RECORD PLANS





PLAN
SCALE: 1" = 40'

CURVE DATA:

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	05°16'20"	1505.00'	138.49'	69.29'
C2	08°20'02"	1505.00'	218.86'	109.65'
C3	02°37'01"	1505.00'	68.77'	34.37'

56253

REGISTERED PROFESSIONAL ENGINEER WARREN L. SMITH No. 13818 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

4-10-01

REVIEWED BY LAND DEVELOPMENT DIVISION
BY M.Q. Espinoza 4-11-01
SUBDIVISION PLAN CHECKING SECTION DATE

FILE I:\PROJECTS\1891-001 AUBURN\SEWER\TR43896-06\Sheet2.dwg
REV. 03-28-01

P.C. 11544 .ON TCART

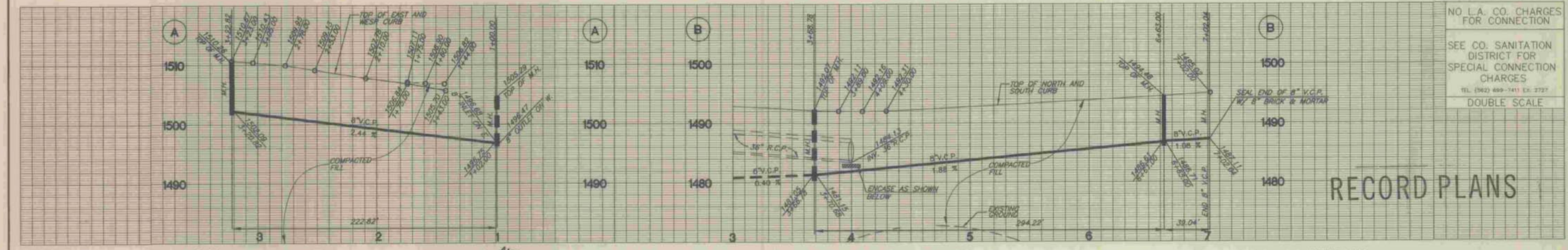
P.C. 11544 PAGE 5

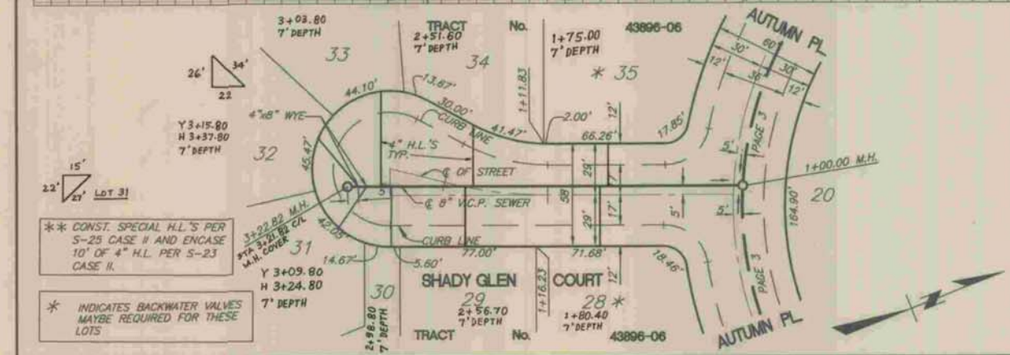
NO L.A. CO. CHARGES FOR CONNECTION

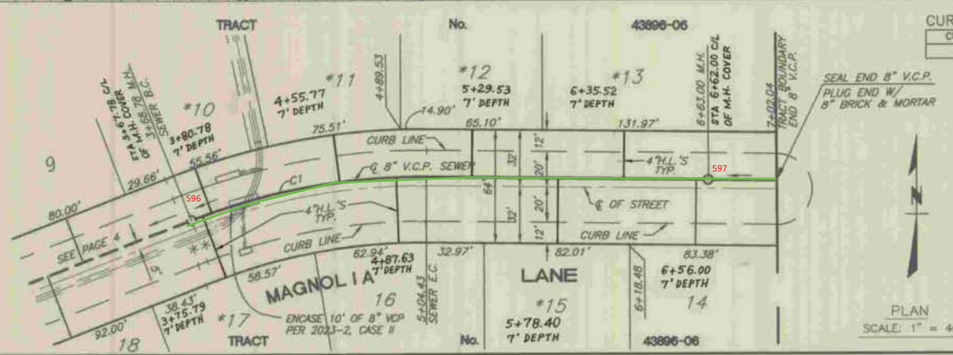
SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE

RECORD PLANS







CURVE DATA:

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	21°53'38"	355.00'	135.65'	68.66'

PLAN
SCALE: 1" = 40'

56254

REGISTERED PROFESSIONAL ENGINEER KRISTEN L. SMITH No. 13818 Exp. 3-31-05 CIVIL STATE OF CALIFORNIA

4-10-01

REVIEWED BY LAND DEVELOPMENT DIVISION
BY
SUBDIVISION PLAN CHECKING SECTION DATE

P.C. _____ PAGE _____

NO L.A. CO. CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE

VOID

REVIEWED BY LAND DEVELOPMENT DIVISION
BY
SUBDIVISION PLAN CHECKING SECTION DATE

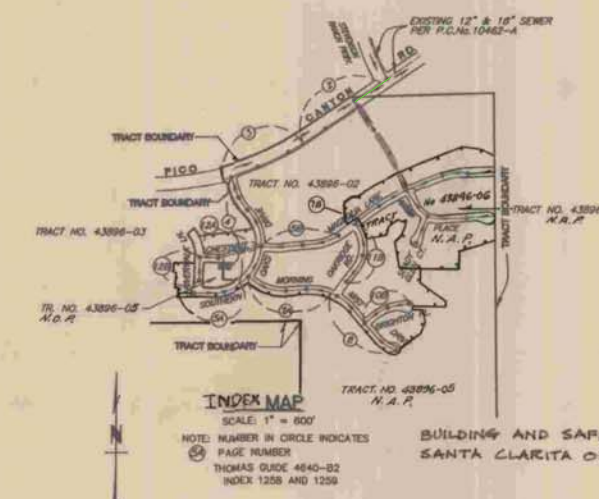
FILE D:\PROJECTS\1891-001 AD&LDH-SEWER\TR43896-05\Sheet3.dwg
REV. 02-08-01

P.C. 11544 PAGE 5 TRACT NO. 43896-06

BENCH MARK: L 3026

RDBM TAG IN S CB 8.2 M W/O BCR @
SW COR LYONS AVE & WILEY CYN RD
30.5M W/O & 12.2M S/O C/L INT (NR W END CB)

NEWHALL 1995 ELEV.= 1265.296



INDEX MAP
SCALE: 1" = 600'
NOTE: NUMBER IN CIRCLE INDICATES PAGE NUMBER
THOMAS GUIDE 4640-B2
INDEX 1258 AND 1259

BUILDING AND SAFETY
SANTA CLARITA OFFICE

NO CONNECTION FOR DISPOSAL OF INDUSTRIAL WAISTS SHALL BE MAID TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTE WATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	REVISED INDEX MAP; MOVE LOT LINES (H.L'S) ON PAGE 4;5;7;8;10B & 12. VOID PAGE 8;9;10A & 11A. EXTEND MAIN LINE ON PAGE 5B FROM STA. 13+80.31 TO STA. 14+87.48. SHORTEN MAIN LINE ON PAGE 8 FROM STA. 13+75.00 TO STA. 13+48.00. ADD PLAN & PROFILE LINE B ON PAGE 7	S.R. CONSULT. [signature] R.E. No. 13818	[signature]	6/14/00

STORMWATER POLLUTION CONTROL REQUIREMENTS FOR SEWER CONSTRUCTION

1. Eroded sediments and other pollutants must be retained on site and may not be transported from the site via sheet flow, swales, area drains, natural drainage courses, or wind.
2. Stockpiles of earth and other construction related materials must be protected from being transported from the site by the forces of wind or water.
3. Fuels, oils, solvents, and other toxic materials must be stored in accordance with their listing and are not to contaminate the soil and surface waters. All approved storage containers are to be protected from the weather. Spills must be cleaned up immediately and disposed of in a proper manner. Spills may not be washed into the drainage system.
4. Excess or waste concrete may not be washed into the public way or any other drainage system. Provisions shall be made to retain concrete wastes on site until they can be disposed of as solid waste.
5. Trash and construction-related solid wastes must be deposited into a covered receptacle to prevent contamination of rainwater and dispersal by wind.
6. Sediments and other materials may not be tracked from the site by vehicle traffic. The construction entrance roadways must be stabilized so as to inhibit sediments from being deposited into the public way. Accidental depositions must be swept up immediately and may not be washed down by rain or other
7. Any slopes with disturbed soils or denuded of vegetation must be stabilized so as to inhibit erosion by wind and water. means

CA001 – DEWATERING OPERATIONS
CA002 – PAVING OPERATIONS
CA003 – STRUCTURE CONSTRUCTION AND PAINTING
CA010 – MATERIAL DELIVERY AND STORAGE
CA020 – SOLID WASTE MANAGEMENT
CA021 – HAZARDOUS WASTE MANAGEMENT
CA023 – CONCRETE WASTE MANAGEMENT
CA024 – SANITARY/SEPTIC WASTE MANAGEMENT
CA030 – VEHICLE AND EQUIPMENT CLEANING
CA031 – VEHICLE AND EQUIPMENT FUELING
CA032 – VEHICLE AND EQUIPMENT MAINTENANCE
ESC01 – SCHEDULING
ESC02 – PRESERVATION OF EXISTING VEGETATION
ESC10 – SEEDING AND PLANTING
ESC11 – MULCHING
ESC20 – GEOTEXTILES AND MATS
ESC21 – DUST CONTROLS
ESC22 – TEMPORARY STREAM CROSSING
ESC23 – CONSTRUCTION ROAD STABILIZATION
ESC24 – STABILIZED CONSTRUCTION ENTRANCE
ESC54 – STORM DRAIN INLET PROTECTION

STANDARD PLANS:

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE FOLLOWING DEPARTMENT SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LOS ANGELES COUNTY DEPARTMENT OF PUBLIC WORKS
APWA 208-0 BREAKING INTO EXISTING MANHOLES
APWA 220-1 CHIMNEYS
APWA 221-1 PIPE ANCHORS
APWA 222-0 HOUSE CONNECTION SEWER
APWA 223-0 HOUSE CONNECTION REMODELING
2000-0 LEGEND FOR SANITARY SEWER PLANS AND PROFILES AND DISTRICT MAPS.
2021-0 BEDDING FOR SEWER PIPE
2024-0 WYE OR TEE SUPPORT
2027-0 ALLOWABLE TRENCH WIDTHS
2023-1 CRADLING AND ENCASEMENT

THIS SEWER PRIVATE CONTRACT ACCEPTED FOR PUBLIC USE
06/14/2005
COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS LAND DEVELOPMENT DIVISION

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR ACCEPTANCE OF THE PROJECT. A SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (805) 947-5027 SO THAT REQUIRED INSPECTION CAN BE MADE.

LOT 56 IS RESTRICTED TO NO CONSTRUCTION OF RESIDENTIAL BUILDINGS AND WILL NOT BE SERVED BY THIS SEWER.

NOTE: ISSUE NO H.L. CONNECTION PERMITS FOR LOTS FROM 14 TO 19 & FROM 32 TO 35 UNTIL OUTLET P.C. 11544 IS ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.

No.	REVISION	REVISED BY	APPROVED BY	DATE
2	ADD H.L. ON PAGE 4 AND 7 FOR RECREATION LOT No 23 FUTURE TRACT No. 43896-05)	S.R. CONSULT. [signature] R.E. No. 13818	[signature]	8/17/00

PRIVATE CONTRACT SEWER GENERAL NOTES

The following general notes are to be included on Page 1 of all Private Contract Sewer Plans:

1. A sewer construction permit shall be obtained and a fee paid for construction inspection and record plans to the Department of Public Works at the Permit Counter, 900 South Fremont Avenue, 8th Floor, Alhambra, at least 72 hours prior to starting work under this permit. Copies of all other required permits, such as Road Excavation, Caltrans, etc., must be filed with the permit application.
2. Prior to issuance of any permit, the contractor shall file a permit for excavations and trenches from the State of California Division of Industrial Safety, and a Certificate of Worker's Compensation Insurance with the Department of Public Works named as the Certificate Holder to be notified 30 days prior to cancellation of policy
3. If work is done in a State Highway, a permit must be obtained from the State of California Division of Highways, 120 South Spring Street, Los Angeles, California.
4. When work is within a contract city, the contractor must contact the Director of Public Works of that city, to determine the location to pay the inspection fee.
5. The contractor shall contact the district office listed on the "Application for Construction Permit" to arrange for an acceptable construction start date.
6. Approval of this plan by the County of Los Angeles does not constitute a representation as to accuracy of the location of or the existence or non-existence of any underground utility pipe or structure within the limits of this project. This note applies to all pages.
7. All work shall be in accordance with the latest approved edition of the "Standard Specifications for Public Works Construction, including supplements and the latest Special Provisions for the Construction of Sanitary Sewers and shall be prosecuted only in the presence of the Department of Public Works
8. The contractor's attention is directed to Section 7-10.4.1 of the Standard Specifications for Public Works Construction in regard to safety orders and shall conform to the "Minimum Public Safety Requirements" as shown on Los Angeles Department of Public Works' Standard S-2.
9. Elevations are in feet above U.S.C. & G.S. sea level datum of 1929.
10. No revisions shall be made in these plans without the approval of the Director of Public Works.
11. No representative of the Department of Public Works will survey or lay out any portion of the work.
12. Grades to which this improvement is to be constructed are shown on plans and profiles. Grade points for top of curbs, centerline of streets, or centerline of alleys, are shown by circles on profiles at all points between designated points. The grade shall be established so as to conform to a straight line drawn between said designated points.
13. The private engineer shall furnish the Department of Public Works with grade sheets and stationing for all house laterals and "Y" or "T" branches and shall provide stakes for them at their proper locations with stationing plainly marked. All house laterals shall be constructed in a straight alignment at right angles from the main line sewer except as shown on the plans. House laterals from chimneys shall not have an angle of less than 45 degrees with the M.L. sewer. Any change in alignment shall be requested in writing by the private engineer.
14. The private engineer shall furnish the house lateral depth at the property line below the top of curb elevation for each house lateral on the grade sheet.

CONSTRUCTION NOTES

1. Provide survey stakes on the property line or property lines produced at right angles to the sewer line at the centerline of each manhole
2. Vitrified clay pipe joints shall be type "D" or "G" per standard specifications section 208-2.
3. If a powerpole is within three feet of the sewer, the sewer shall be encased per standard plan S-23, case II, two feet on each side from the point of interference.
4. All joints between cast iron pipe and vitrified caly shall be made with a rubber sleeve joint, type "D" (with bushing if necessary) per standard specifications section 208-2.
5. House laterals to be constructed with inverts at the property line 6 feet below curb grade except as noted.
6. Wye or tee branches may be used for connections to the mainline sewers except as noted.
7. If during the course of construction, it is determined that there is less than four feet of cover over the top of a mainline or house lateral V.C.P. sewer which is not indicated on the plans, the pipes shall be encased per standard plan S-23, case II, unless otherwise approved by the director of Public Works.
8. All structures shall be either brick sewer manholes per standard plan S-3 or precast concrete sewer manholes per standard plan S-38, or reinforced precast concrete manhole per standard plan S-6, except as noted.
9. resurface all trenches within paved areas to meet Los Angeles County Public Works or California State Highway requirements in accordance with the permits.
10. Full compliance with section 306-1.3.4. of the standard specification will be required for backfill in street certification of backfill compaction and sand equivalents by a qualified civil engineer shall be provided by the permitee prior to the issuance of a certificate of partial acceptance.
11. All backfill and fills outside of the street right of way shall be compacted to 90% of the maximum density as determined by ASTM soil compaction test D 1557-78 method "D" unless otherwise specified. This shall be certified by a qualified civil engineer. This certification shall be submitted to the Construction Division of the Department of Public Works prior to the acceptance of the work by the county.
12. Manhole tops in unimproved rights of way to be six inches above finished grade.
13. Sewers to be tested for leakage per section 306-1/4 of the standard specifications and special provisions.

RECORD PLANS

PROFILE, ALIGNMENT AND GRADE OF SANITARY SEWERS

TO BE CONSTRUCTED IN

54946

TRACT NO. 43896-02 PC NO. 11464

6 SHEETS: 12 PAGES

COUNTY OF LOS ANGELES CALIFORNIA
INDEX 1258 AND 1259

HARRY W. STONE DIRECTOR OF PUBLIC WORKS

APPROVED BY LAND DEVELOPMENT DIVISION

BY [signature] 2-1-00
ASSISTANT DIVISION ENGINEER DATE

SUBMITTED BY [signature] 1/31/2000
SUBDIVISION PLAN CHECKING SECTION DATE

APPROVED: COUNTY SANITATION DISTRICT
OF LOS ANGELES CALIF.
CHARLES W. CARRY – CHIEF ENGINEER and GENERAL MANAGER

COUNTY SANITATION DISTRICT NO. 32

BY [signature] for OFFICE ENGINEER DATE: 2/1/2000

PRIVATE ENGINEERS NOTICE TO CONTRACTORS:

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS IS REQUIRED BY A SEARCH OF AVAILABLE RECORDS TO THE BEST OF OUR KNOWLEDGE. THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THIS MAP. THE CONTRACTOR IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THIS DRAWING. PRIOR TO EXCAVATION THE CONTRACTOR SHALL CALL TOLL FREE 1-800-422-4133 TO VERIFY THE UNDERGROUND LOCATION OF GAS AND TELEPHONE LINES. THE CONTRACTOR SHALL ALSO CALL MR. RAY CUMMINGS OF GENERAL TELEPHONE COMPANY AT 1-805-948 4871 SO THAT THEY CAN MARK THE LOCATION OF UNDERGROUND TELEPHONE LINES.

[signature] 1-27-00
RCE NO. C13818 DATE

TRACT NO. 43896-02 P.C. 11464

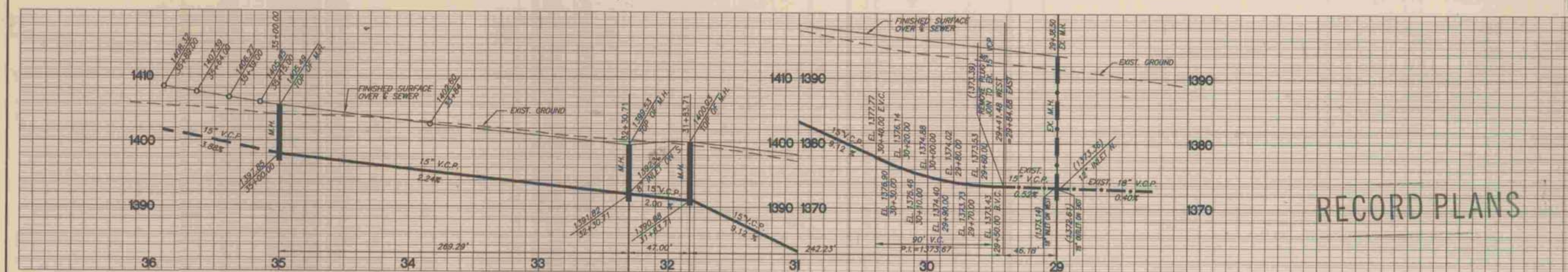
P.C. 11464 PAGE 2

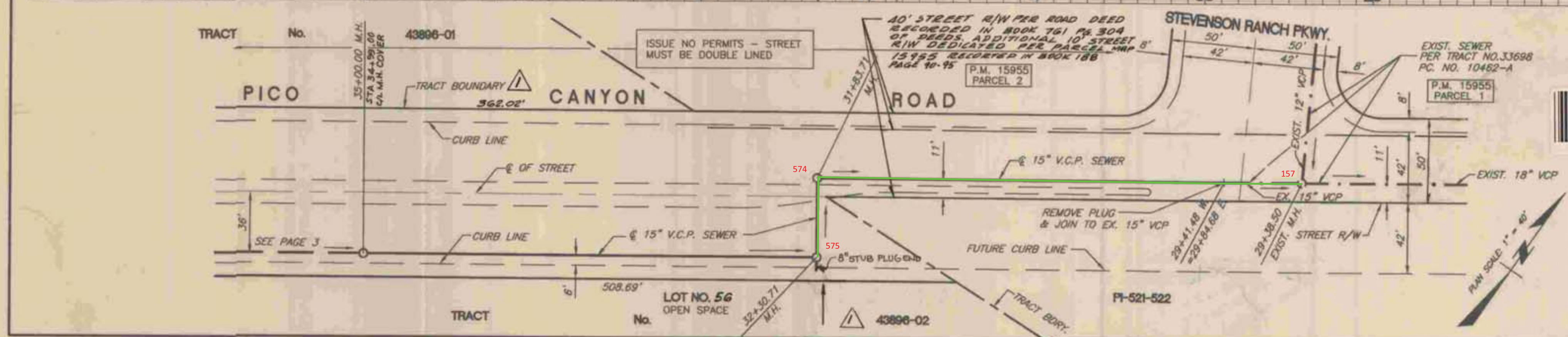
NO L.A. CO. CHARGES FOR CONNECTION

SEE CO. SANITATION DISTRICT FOR SPECIAL CONNECTION CHARGES
TEL. (562) 699-7411 EX. 2727

DOUBLE SCALE

54947





40' 20' 0' 20' 40' 80'
GRAPHIC SCALE
SCALE : 1"= 40'

PS006837

SANITARY SEWER PLANS IN
TRACT NO. 43896-02 PC NO. 11464

REVIEWED BY LAND DEVELOPMENT DIVISION
BY [signature] 1/31/00
SUBDIVISION PLAN CHECKING SECTION DATE

COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS

REGISTERED PROFESSIONAL ENGINEER WARREN L. SMITH No. 13818 Exp. 3-31-01 CIVIL STATE OF CALIFORNIA

[signature] 1-27-00
PROJECT ENGINEER DATE

SR CONSULTANTS, INC.
ENGINEERING • LAND PLANNING • LAND SURVEYING
2698 MATARO STREET
PASADENA , CALIFORNIA 91107-3112
Phone : (626) 683-0430

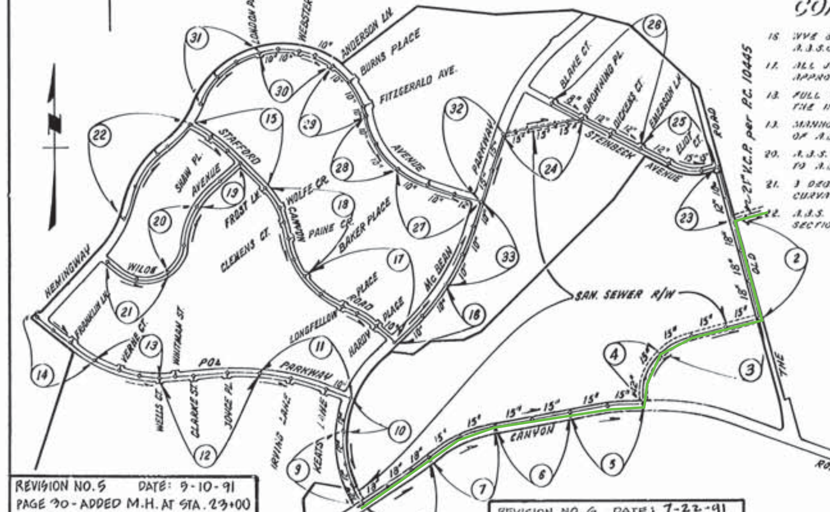
DWG.

FILE I:\PROJECTS\891-001\TR43896\TR43896-02-SEWER\PPSS1.dwg
01-26-00

B.M. CL 3960 ELEV. 262.866
RDBM TAG IN CONC BASE OF EDISON PP #1927400E 60 FT S & 67 FT E C/L INT LYONS AVE & WILEY CN RD
NEWHALL QUAD. 19 83

CONTRACTOR MUST MAINTAIN FLOW AT ALL TIMES.

DOUBLE SCALE



CONSTRUCTION NOTES: (cont.)

16. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWER IF A.B.S.C.P IS USED.
17. ALL JOINT BETWEEN CAST IRON PIPE AND A.B.S.C.P SHALL BE MADE WITH APPROVED FITTINGS.
18. FULL COMPLIANCE WITH PART IV. OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE AND A.B.S. SOLID WALL HOUSE LATERALS.
19. MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
20. A.B.S. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
21. 3 DEGREE DEFLECTION COUPLERS SHALL BE USED TO ACCOMPLISH RADIUS OF CURVATURE LESS THAN 330', WHEN USING 8" A.B.S. COMPOSITE PIPE.
22. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION 3-3.1 OF PART IV. OF SPECIAL PROVISIONS.

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (818) 962-8605 SO THAT REQUIRED INSPECTION CAN BE MADE.

REVISION NO. 3 DATE 2-3-89
REALIGNED SEWER PAGES, 5, 6, 7, 8 AND 9 TO AVOID OAK TREES AND POWER POLES
APPROVED: Saufi G. Ibali
DEPT. OF PUBLIC WORKS

REVISION NO. 4 DATE 4/29/89
REALIGNED SEWER PAGE 5 TO AVOID POWER POLE. ADDED AND RELOCATED M.H. PAGE 6 TO AVOID GAS LINE
APPROVED: Saufi G. Ibali
DEPT. OF PUBLIC WORKS

REVISION NO. 5 DATE: 9-10-91
PAGE 30 - ADDED M.H. AT STA. 23+00
REMOVE EX. M.H. AT STA. 24+68.52 & CONSTRUCTED NEW M.H. - LOWERED SEWER M.L. STA. 23+02.00 TO STA. 26+06.52
APPROVED: Saufi G. Ibali 5/30/91
DEPT. OF PUBLIC WORKS

REVISION NO. 1 DATE: 5/18/88
Change Pipe Size from 15" to 18" on Page 2. Lower Main Line and Eliminate "Shallow Manholes" on Pages 2, 3, 4 and 23.
APPROVED: Saufi G. Ibali
DEPT. OF PUBLIC WORKS

INDEX MAP
TRACT Nº 33698
P.C. Nº 10462-A
Scale: 1" = 800'

REVISION NO. 6 DATE: 7-22-91
PAGE 30, ADDED 64 FT. OF 8" VCP SEWER FROM M.H. @ STA. 24+68.52 ACROSS HEMINGWAY AVE.
APPROVED: Saufi G. Ibali
DEPT. OF PUBLIC WORKS

REVISION NO. 2 DATE: 7/27/88
Added 8" Inlet, Pg. 26 @ Manhole Sta. 11+68.85; Added Manhole & 8" INLETS Pg. 24 Sta. 6+97.20 & Sta. 2+69.92; Added Angle on Stub Pg. 24 Sta. 6+00.00
APPROVED: Saufi G. Ibali
DEPT. OF PUBLIC WORKS

ISSUE NO H.L. PERMITS UNTIL OUTLET SEWER P.C. 10445 IS ACCEPTED FOR PUBLIC USE BY THE COUNTY OF LOS ANGELES.

LOTS 555, 556, 557, 559 THRU 572, 574 THRU 579, 581, 582, 583, 585, 586, 587 AND 591 ARE OPEN SPACE LOTS RESTRICTED TO NO CONSTRUCTION AND WILL NOT BE SERVED BY THIS SEWER.

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
3. NO REPRESENTATIVE OF THE DEPT. OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEPT. OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONSTRUCTION DIVISION OF THE L.A. CO. DEPT. OF PUBLIC WORKS, DISTRICT OFFICE Nº 6, AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS, 900 S. FREMONT AVE. ALHAMBRA, CA. 91803, 8th FLOOR TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7.10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
11. PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE DEPT. OF PUBLIC WORKS COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE ROAD ELEMENT AT THE DEPT. OF PUBLIC WORKS A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA, DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKERS COMPENSATION INSURANCE WITH THE DEPT. OF PUBLIC WORKS, 900 S. FREMONT AVE. ALHAMBRA, CA. 91803, 8th FLOOR NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF POLICY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1985 EDITION WITH 1986 SUPPLEMENT) & DEPT. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWER DATED SEPT. 21, 1976 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE DIRECTOR OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, 818 458-3125 AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK SEWER MANHOLES PER S-3 OR PRE-CAST CONCRETE MANHOLES PER S-36 EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY PUBLIC WORKS OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.3.5 OF THE STD. SPECIFICATIONS WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED, REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
15. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION: (A) BACKFILL TRENCH AND REPLACE OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS DEVELOPMENT BY THE LAND DEVELOPMENT DIVISION. (B) ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STD. METHOD OF TEST D1557 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION - PUBLIC WORKS DEPT.

PROFILE, ALIGNMENT AND GRADE OF

PAGE 1

SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT Nº 33698

PRIVATE CONTRACT NO. 10462-A

INDEX A-42

17 SHEETS, 33 PAGES

SCALE: VERT. 1" = 8' HORIZ. 1" = 16' DECEMBER, 1985

PREPARED IN THE OFFICES OF
ENGINEERING SERVICE CORPORATION
6017 BRISTOL PARKWAY · FOX HILLS BUSINESS PARK
CULVER CITY, CALIF. · TELEPHONE: (213) 417-1339

BY: J K Neville
REG. C. E. No. 13095

PROFESSIONAL ENGINEER · KENNEY NEVILLE · No. 13095 · Exp. 3-31-89 · CIVIL · STATE OF CALIFORNIA

52901

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK SEWER MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-33
LOCKING MANHOLE FRAME AND COVER	S-35
NON-REINFORCED PRECAST CONCRETE SEWER MANHOLE	S-36
CHIMNEY PIPE & BASE	S-47
RECTANGULAR SHALLOW MANHOLE	S-7
RECTANGULAR MANHOLE FRAME & COVERS	S-16
PRECAST CONCRETE SHALLOW MANHOLE	S-38
SPECIAL HOUSE LATERALS	S-25
EROSION PROTECTION IN STEEP SLOPES	S-31

COUNTY OF LOS ANGELES, CALIFORNIA
THOMAS A. TIDEMANSON, DIRECTOR OF PUBLIC WORKS CHARLES W. CARRY, CHIEF ENGINEER

CO. SAN DIST. NO. 32

APPROVED Deon Efstathiou 1/11/88 (DATE) APPROVED [signature] for OFFICE ENGINEER 1/12/87

CHECKED Saufi G. Ibali 1-11-88 (DATE)

REG. C.E. NO. 33134

SANTA CLARITA VALLEY BLDG. DIST. 8.2

TRACT NO 33698

PC 10462-A

P. C. 10462-A PAGE 2

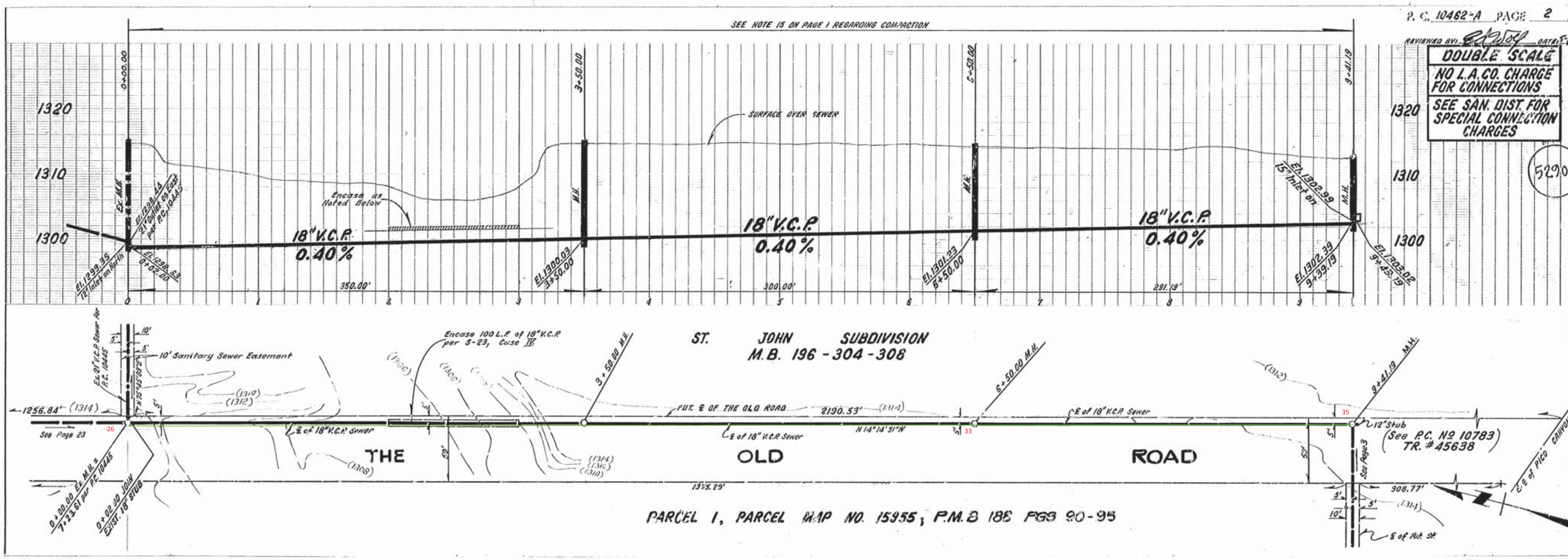
REVIEWED BY: [signature] DATE: 5-3-88

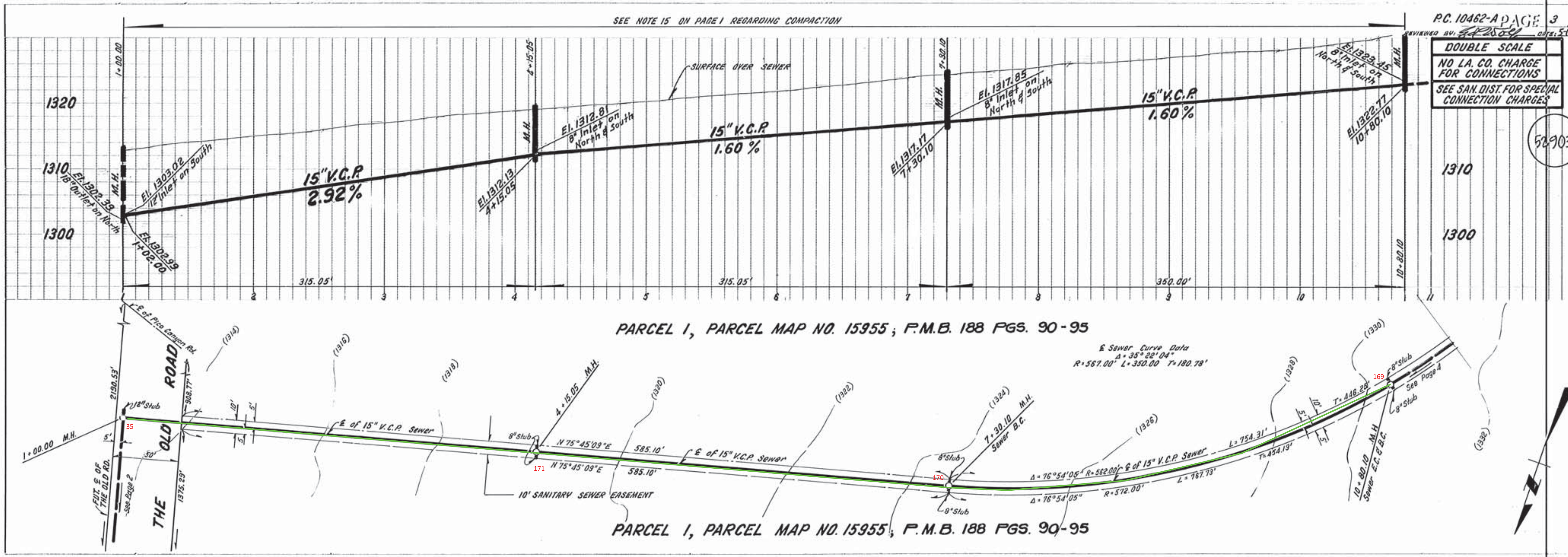
DOUBLE SCALE

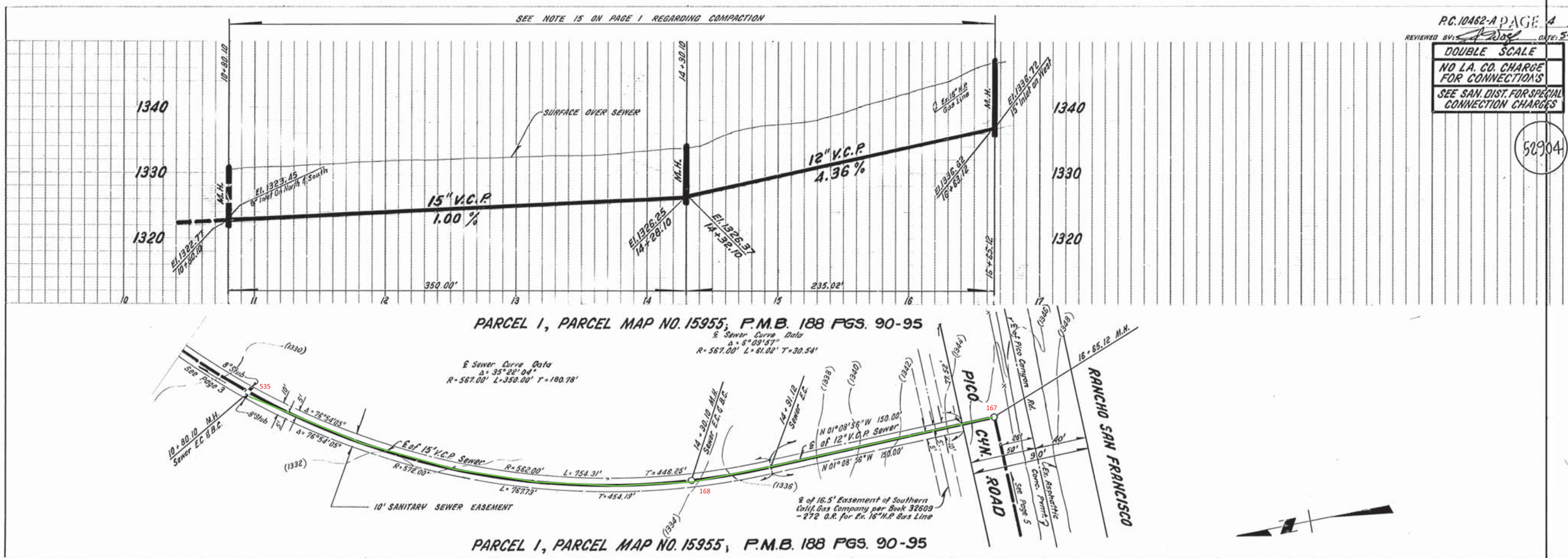
NO L.A.CO. CHARGE FOR CONNECTIONS

SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES

52902




P.C. 10462-A PAGE 3
REVIEWED BY: DATE: 5-18-88
DOUBLE SCALE
NO LA. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES
52903
SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION
SURFACE OVER SEWER
15" V.C.P. 2.92%
15" V.C.P. 1.60%
15" V.C.P. 1.60%
M.H.
El. 1302.39 18" Outlet on North
El. 1303.02 12" Inlet on South
El. 1302.99 1+02.00
El. 1312.81 8" Inlet on North & South
El. 1312.13 4+15.05
El. 1317.85 8" Inlet on North & South
El. 1317.17 7+30.10
El. 1323.45 8" Inlet on North & South
El. 1322.77 10+80.10
1+00.00
4+15.05
7+30.10
10+80.10
1320
1310
1300
315.05'
315.05'
350.00'
PARCEL 1, PARCEL MAP NO. 15955; P.M.B. 188 PGS. 90-95
℄ Sewer Curve Data Δ = 35°22'04" R = 567.00' L = 350.00' T = 180.78'
℄ of 15" V.C.P. Sewer
N 75°45'09"E 585.10'
10' SANITARY SEWER EASEMENT
THE OLD ROAD
FUT. ℄ OF THE OLD RD.
See Page 2
See Page 4
12" Stub
8" Stub
Sewer E.C. & B.C.
Δ = 76°54'05" R = 562.00' L = 754.31'
Δ = 76°54'05" R = 572.00' L = 767.73'
T = 446.28'
T = 454.13'
PARCEL 1, PARCEL MAP NO. 15955; P.M.B. 188 PGS. 90-95


P.C. 10462-A PAGE 4
REVIEWED BY: DATE: 5-18-88
DOUBLE SCALE
NO LA. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES
52904
SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION
SURFACE OVER SEWER
15" V.C.P. 1.00%
12" V.C.P. 4.36%
M.H.
El. 1323.45 8" Inlet On North & South
El. 1322.77 10+80.10
El. 1326.25 14+28.10
El. 1326.37 14+32.10
El. 1336.72 15" Inlet on West
El. 1336.82 16+63.12
10+80.10
14+30.10
16+65.12
1340
1330
1320
350.00'
235.02'
PARCEL 1, PARCEL MAP NO. 15955; P.M.B. 188 PGS. 90-95
℄ Sewer Curve Data Δ = 6°09'57" R = 567.00' L = 61.02' T = 30.54'
℄ Sewer Curve Data Δ = 35°22'04" R = 567.00' L = 350.00' T = 180.78'
℄ of 15" V.C.P. Sewer
℄ of 12" V.C.P. Sewer
N 01°08'56"W 150.00'
10' SANITARY SEWER EASEMENT
℄ of 16.5' Easement of Southern Calif. Gas Company per Book 32609-272 O.R. for Ex. 16" H.P. Gas Line
PICO CYN. ROAD
RANCHO SAN FRANCISCO
See Page 3
See Page 5
PARCEL 1, PARCEL MAP NO. 15955; P.M.B. 188 PGS. 90-95

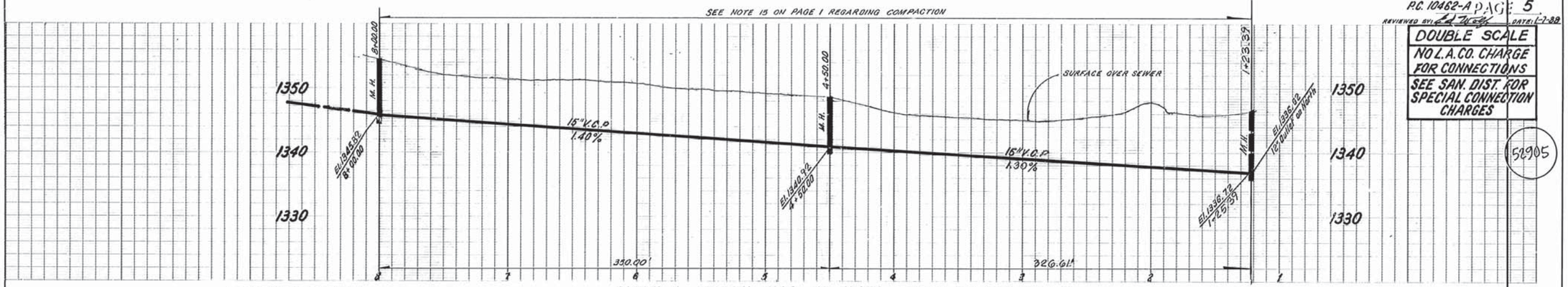
P.C. 10462-A PAGE 5

REVIEWED BY: [illegible] DATE: 1-7-88

DOUBLE SCALE
NO L.A.CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES

58905

SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION



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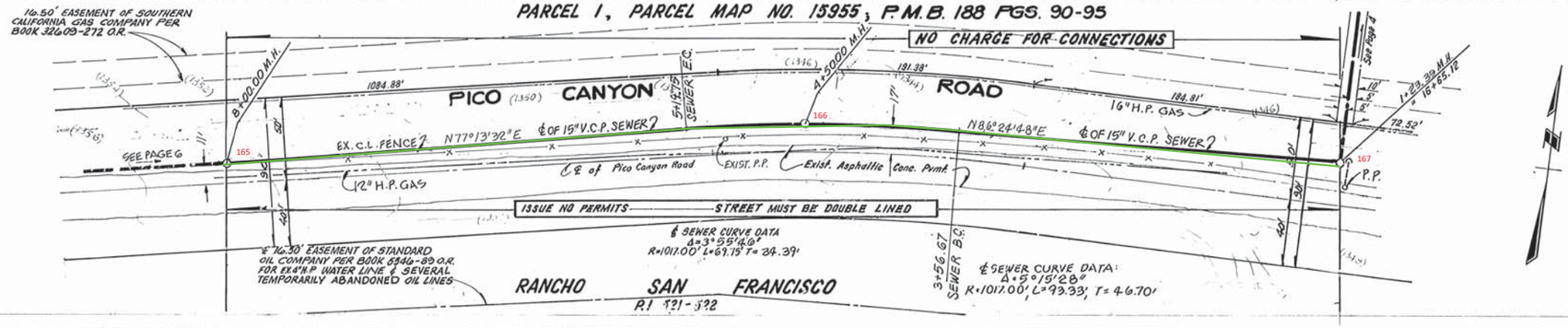


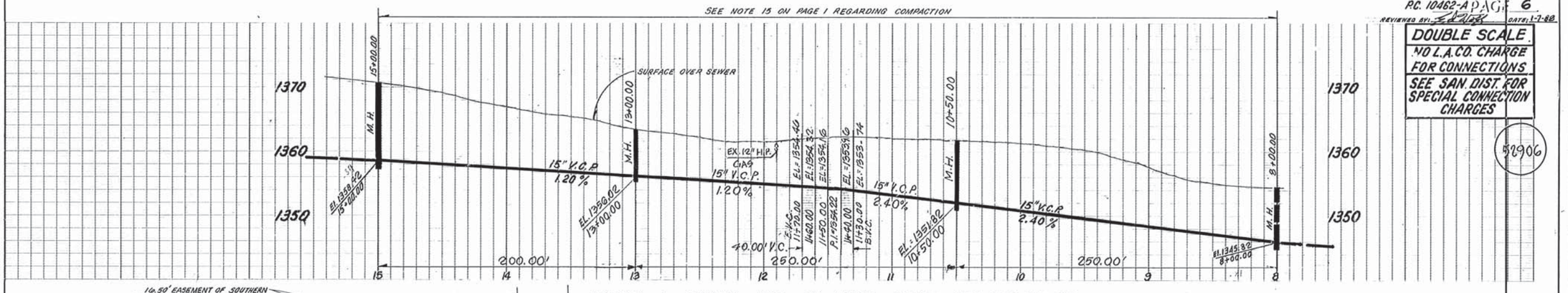
P.C. 10462-A PAGE 6

REVIEWED BY: [illegible] DATE: 1-7-88

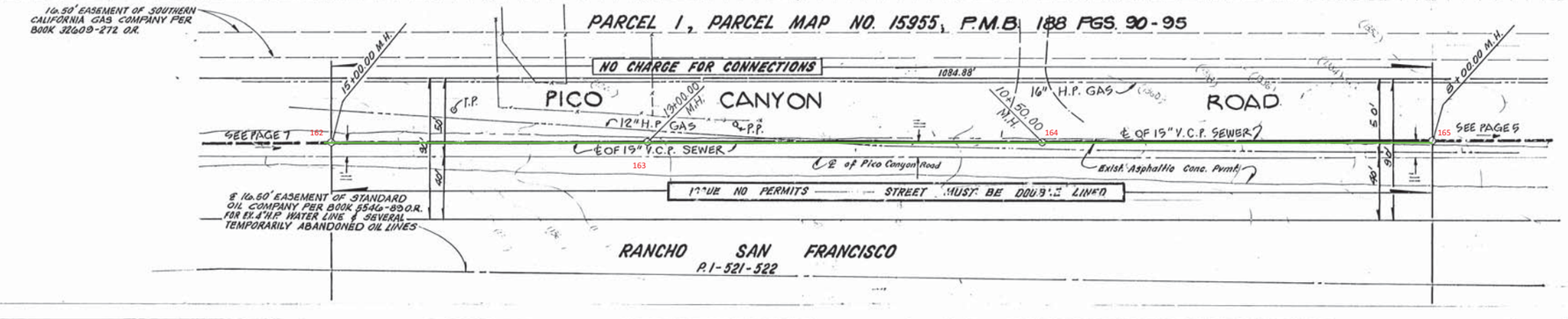
DOUBLE SCALE
NO L.A.CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES

58906

SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION



PARCEL 1, PARCEL MAP NO. 15955, P.M.B. 188 PGS. 90-95



ESGH

A-5201 P.C. 33238 TRACT

3

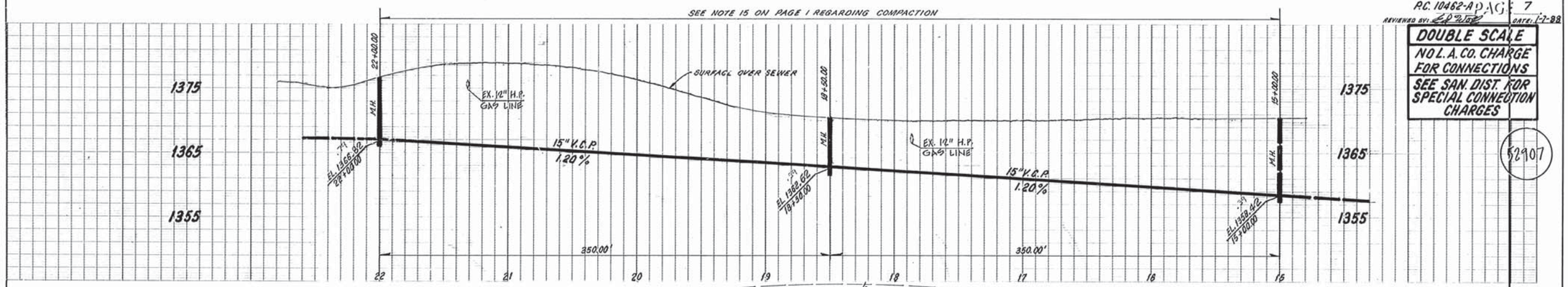
P.C. 10462-A PAGE 7

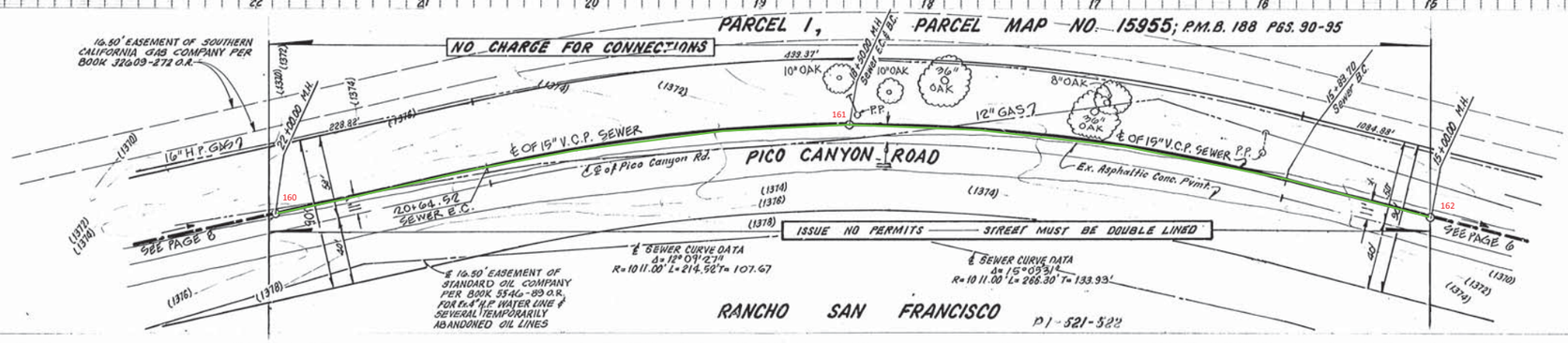
REVIEWED BY: [signature] DATE: 1-7-88

SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION

DOUBLE SCALE
NO L.A.CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES

52907





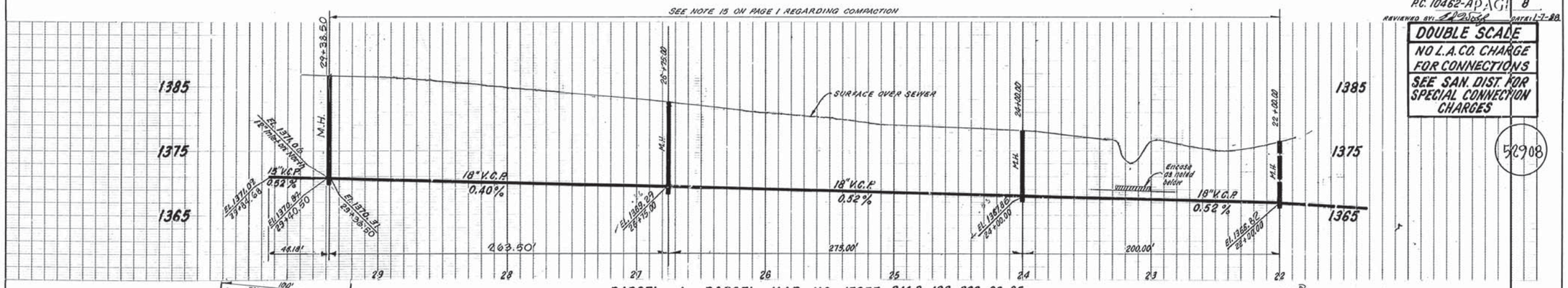
P.C. 10462-A PAGE 8

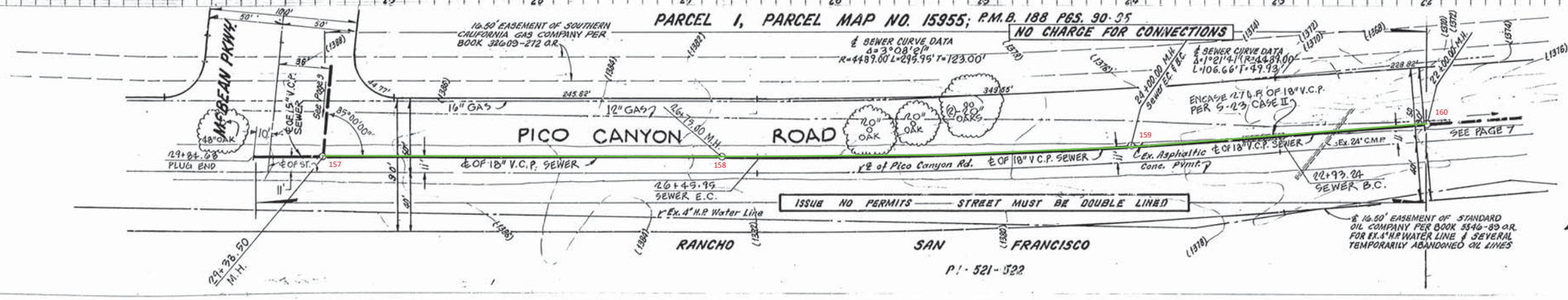
REVIEWED BY: [signature] DATE: 1-7-88

SEE NOTE 15 ON PAGE 1 REGARDING COMPACTION

DOUBLE SCALE
NO L.A.CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES

52908

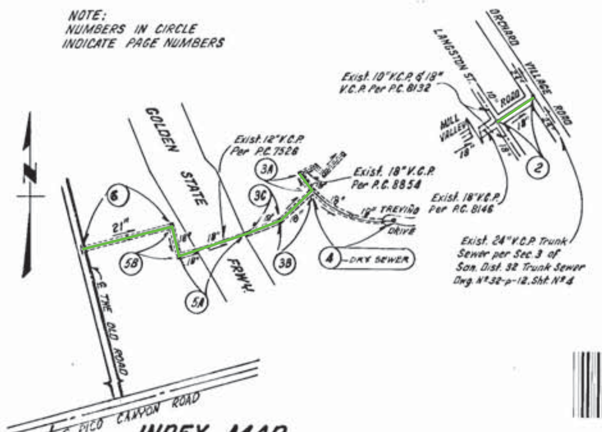




B.M. CL 5087 ELEV. 1259.970
ROBM TAG IN E CURB 3 FT. S/O BCR AT S.E'LY COR. TOURNAMENT RD. & GOLF COURSE RD. 48 FT. S. & 20 FT. E/O ℄ INT.
NEWHALL QUAD. 19 78

DOUBLE SCALE

NOTE:
NUMBERS IN CIRCLE INDICATE PAGE NUMBERS



INDEX MAP
MILL VALLEY ROAD AND OTHER R/W
P.C. Nº 10445
Scale: 1" = 600'

CONSTRUCTION NOTES: (CONT.)

16. WYE BRANCHES ONLY MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWER IF A.B.S.C.P. IS USED.
17. ALL JOINT BETWEEN CAST IRON PIPE AND A.B.S.C.P. SHALL BE MADE WITH APPROVED FITTINGS.
18. FULL COMPLIANCE WITH PART IV OF THE SPECIAL PROVISIONS IS REQUIRED FOR THE INSTALLATION OF A.B.S. COMPOSITE PIPE AND A.B.S. SOLID WALL HOUSE LATERALS.
19. MANHOLE WATER STOP GASKETS AND CLAMPS ARE REQUIRED FOR THE CONNECTION OF A.B.S. COMPOSITE PIPE TO MANHOLE STRUCTURES.
20. A.B.S. SOLID WALL PIPE MUST BE USED FOR WYE AND HOUSE LATERAL CONNECTIONS TO A.B.S. COMPOSITE MAINLINE SEWER PIPE.
21. 5 DEGREE DEFLECTION COUPLERS WILL BE USED TO ACCOMPLISH RADIUS OF CURVATURE LESS THAN 350'.
22. A.B.S. COMPOSITE PIPE SHALL BE BEDDED IN CONFORMANCE WITH THE TABLE IN SECTION 8.31 OF PART IV OF SPECIAL PROVISIONS.

THE CONTRACTOR MUST MAINTAIN SERVICE AT ALL TIME DURING THE CONSTRUCTION PERIOD.

PS003509

NO CONNECTION FOR THE DISPOSAL OF INDUSTRIAL WASTES SHALL BE MADE TO SEWERS SHOWN ON THESE DRAWINGS UNTIL A PERMIT FOR INDUSTRIAL WASTEWATER DISCHARGE HAS BEEN ISSUED BY THE SANITATION DISTRICTS FOR SAID CONNECTION.

BEFORE BREAKING INTO OR CONSTRUCTION ON A COUNTY SANITATION DISTRICT SEWER AND PRIOR TO FINAL ACCEPTANCE OF THE PROJECT, SANITATION DISTRICT INSPECTOR SHALL BE NOTIFIED BY PHONE (818) 962-8605 SO THAT REQUIRED INSPECTION CAN BE MADE.

REVISION NO. 1	REVISION NO. 2
* REVISION NO. 1 DATE: 9/14/87 REVISED STA. & EL. @ STA. 4+75.00 ON PAGE 3C REVISED STA., EL. & SLOPE FROM STA. 4+75.00 TO STA. 9+03.47 ON PAGE 5A. APPROVED: Santos G. Ibali 9/18/87 DEPARTMENT OF PUBLIC WORKS	REVISION NO. 2 DATE: REVISED STA. & EL. @ STA. 7+23.61 AND REVISED PIPE SIZE & SLOPE FROM STA. 0+70.00 TO STA. 7+23.61 ON PAGE 6 APPROVED: Santos G. Ibali 5/16/88 DEPARTMENT OF PUBLIC WORKS

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE DIRECTOR OF PUBLIC WORKS.
3. NO REPRESENTATIVE OF THE DEP. OF PUBLIC WORKS WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE DEP. OF PUBLIC WORKS WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONST. DIV. OF THE L.A. DEP. OF PUBLIC WORKS, PERMIT OFFICE NO. 6 AND PAY A FEE TO THE DIRECTOR OF PUBLIC WORKS, 2250 ALCAZAR ST. LOS ANGELES, CA. 33, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON EXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS.
11. PRIOR TO THE ISSUANCE OF THE REQUIRED SEWER CONSTRUCTION PERMIT, THE CONTRACTOR SHALL OBTAIN AND FILE WITH THE COUNTY ENGINEER COPIES OF A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE CONST. DIV. OF THE DEP. OF PUBLIC WORKS, A PERMIT FOR EXCAVATIONS AND TRENCHES FROM THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY AND A CERTIFICATE OF WORKERS COMPENSATION INSURANCE WITH THE DEPARTMENT OF PUBLIC WORKS, 2250 ALCAZAR STREET, RM A203, LOS ANGELES, CALIFORNIA 33 NAMED AS THE CERTIFICATE HOLDER TO BE NOTIFIED 30 DAYS PRIOR TO CANCELLATION OF POLICY.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1985 EDITION WITH 1986 SUPPLEMENTS) & DEP. OF PUBLIC WORKS SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED SEPTEMBER 21, 1978 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY DEP. OF PUBLIC WORKS.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION – PUBLIC WORKS BY TELEPHONE (213) 226-8181, AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 8 FEET BELOW CURB GRADE EXCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAIN LINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-36 EXCEPT AS NOTED.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN UNIMPROVED RIGHTS OF WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D" OR "G" PER STANDARD SPECIFICATIONS SECTION 208.2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER THE SEWER SHALL BE ENCASED PER S-23 CASE II TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D" WITH BUSHING IF NECESSARY, PER STANDARD SPECIFICATIONS SECTION 208.2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.4 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
14. FULL COMPLIANCE WITH SECTION 306-1.3.4 OF THE STANDARD SPECIFICATION WILL BE REQUIRED FOR BACKFILL IN STREETS. CERTIFICATION OF BACKFILL COMPACTION AND SAND EQUIVALENTS BY A QUALIFIED REGISTERED TESTING LABORATORY SHALL BE PROVIDED BY THE PERMITTEE PRIOR TO THE ISSUANCE OF A CERTIFICATE OF PARTIAL ACCEPTANCE.
15. SPECIAL BACKFILL IN EASEMENT CONSTRUCTION: (A) BACKFILL TRENCH AND REPLACE OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS DEVELOPMENT BY THE LAND DEVELOPMENT DIVISION. (B) ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER A.S.T.M. STD. METHOD OF TEST D1557 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION, DEPT. OF PUBLIC WORKS.

PROFILE, ALIGNMENT AND GRADE OF

PAGE 1 CES

SANITARY SEWERS

TO BE CONSTRUCTED IN

MILL VALLEY ROAD AND OTHER R/W

PRIVATE CONTRACT NO. 10445

INDEX A-42
3 SHEETS; 6 PAGES

53415

SCALE: VERT. 1" = 8' HORIZ. 1" = 40'
JUNE, 1986

REGISTERED PROFESSIONAL ENGINEER JOHN KENNEY NEWVILLE No. 13095 Exp. 3-31-89 CIVIL STATE OF CALIFORNIA

PREPARED IN THE OFFICES OF
ENGINEERING SERVICE CORPORATION
5017 BRISTOL PARKWAY • FOX HILLS BUSINESS PARK
CULVER CITY, CALIF. 9023 • TELEPHONE 417-7559

BY: J.K. Newville
REG. C. E. No. 13095

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE DEPT. OF PUBLIC WORKS SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LEGEND	S 1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S 2
BRICK MANHOLE	S 3
STANDARD MANHOLE STEP	S 17
BEDDING FOR SEWER PIPE	S 21
CRADLING AND ENCASEMENT	S 23
WYE OR TEE SUPPORT	S 26
ALLOWABLE TRENCH WIDTHS	S 33
LOCKING MANHOLE FRAME AND COVER	S 35
NON REINFORCED PRECAST CONCRETE MANHOLE	S 36
STANDARD MANHOLE TYPE "D"	S-A-204
STANDARD 24" MANHOLE FRAMES & COVERS	S-A-207

IN ADDITION THE FOLLOWING COUNTY SANITATION DISTRICT STANDARDS SHALL APPLY TO THE CONSTRUCTION OF THIS PROJECT.

COUNTY OF LOS ANGELES, CALIFORNIA

THOMAS A. TIDEMANSON, DIRECTOR OF PUBLIC WORKS CHARLES W. CARRY, CHIEF ENGINEER

APPROVED Dean Efstathiou 8-3-87 (DATE)
APPROVED [signature] 8/6/87 for CHIEF ENGINEER
CO. DIST. 32
CHECKED F. Amg Collier 7/30/87 (DATE)
REG. C.E. NO. 16841

SANTA CLARITA VALLEY BLDG. DIST. 82

MILL VALLEY ROAD W/O ORCHARD VILLAGE PC10445

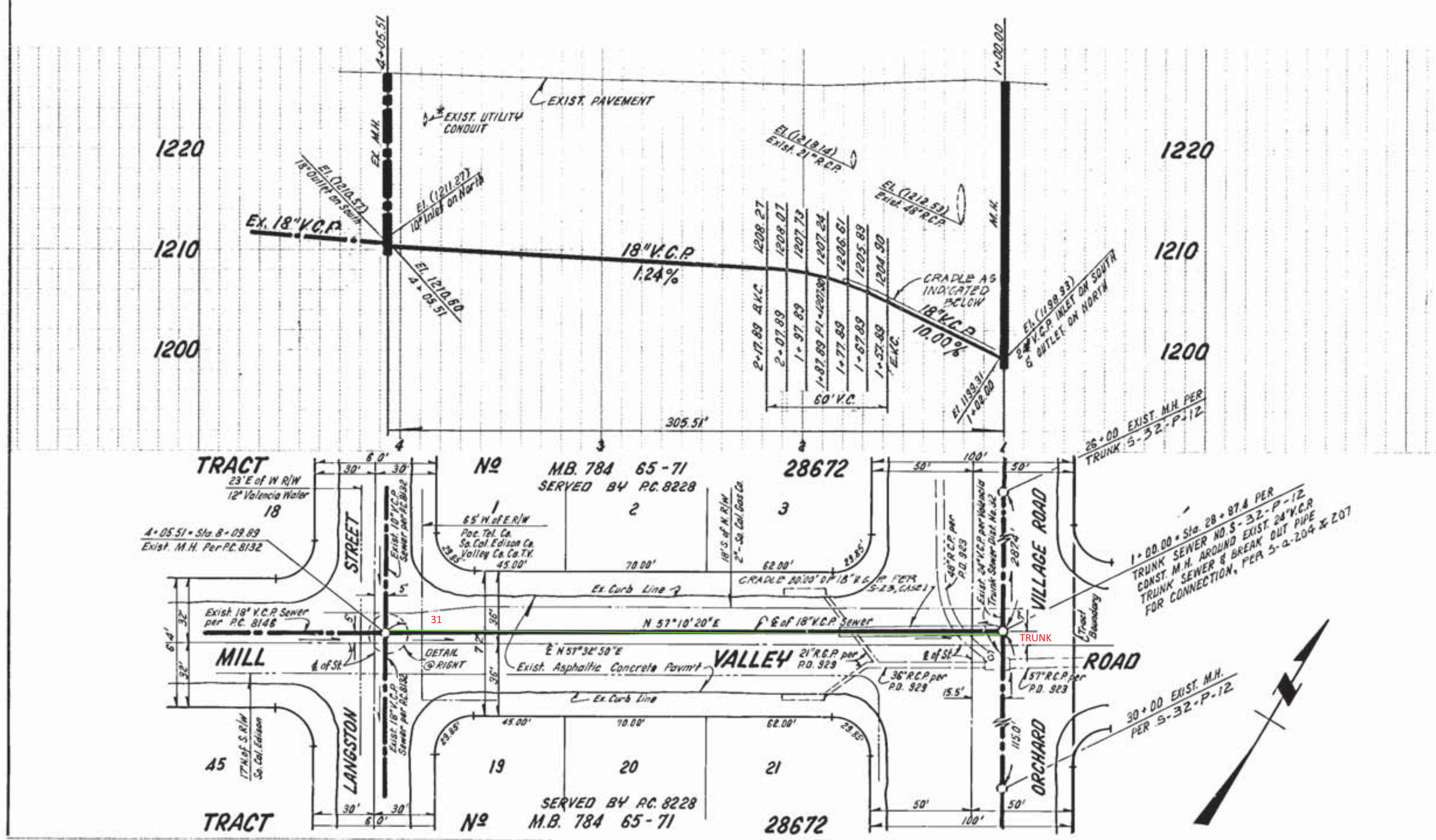
P.C. 10445 PAGE 2 CES

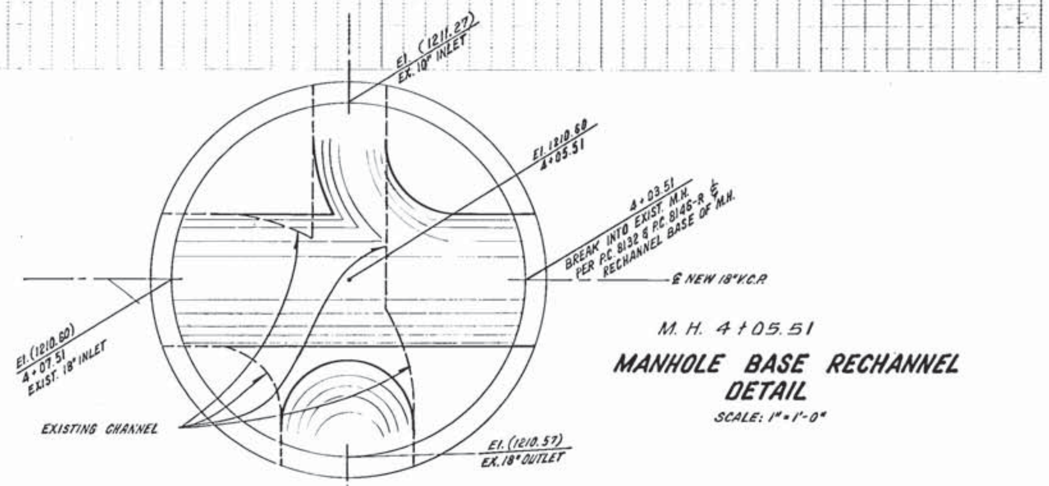
REVIEWED BY: Santos G. Ibali DATE: 7/29/87

DOUBLE SCALE

NO L.A. CO. CHARGE FOR CONNECTIONS

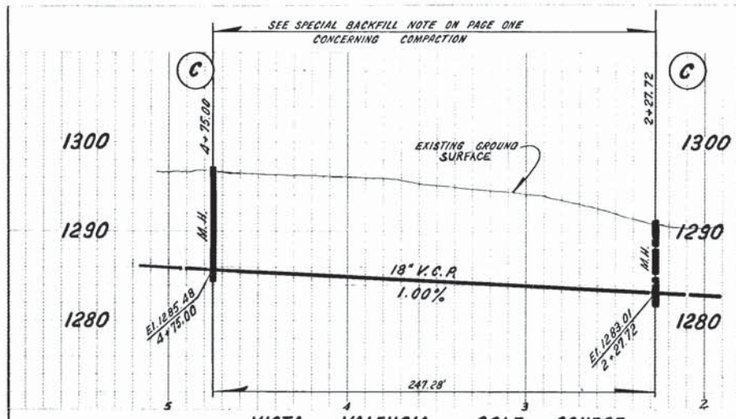
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES



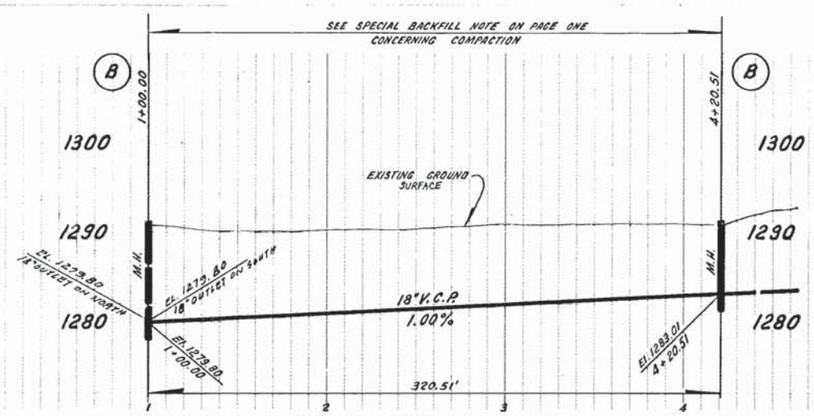


M. H. 4+05.51
MANHOLE BASE RECHANNEL DETAIL
SCALE: 1" = 1'-0"

DOUBLE SCALE
NO L.A. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES



VISTA VALENCIA GOLF COURSE
LOT 5 ST JOHN SUBDIVISION M.B. 196/304 - 308



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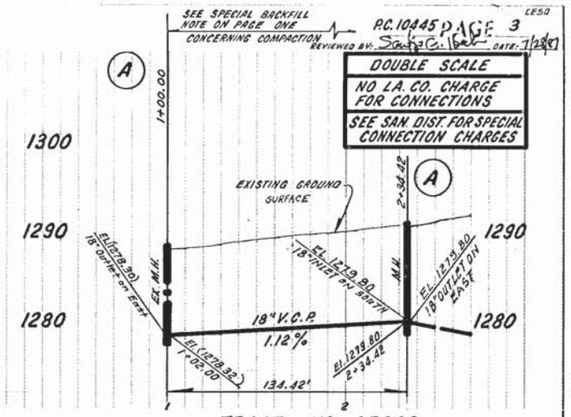
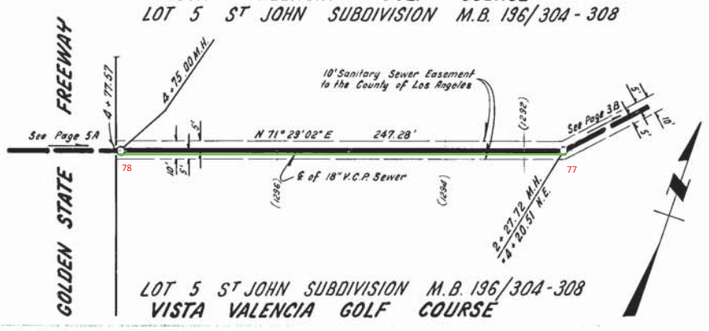
LOT 5 ST JOHN SUBDIVISION M.B. 196/304 - 308



TRACT Nº 27288
M.B. 829/51-53



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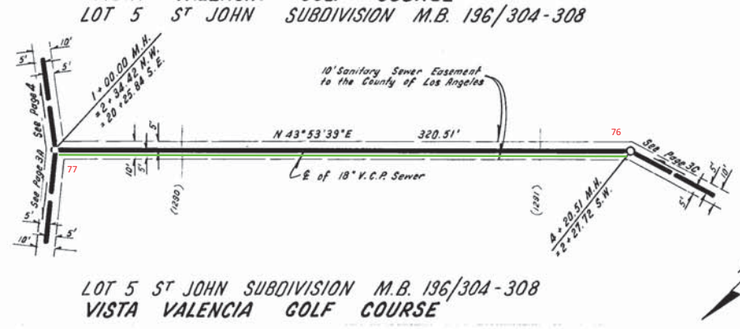
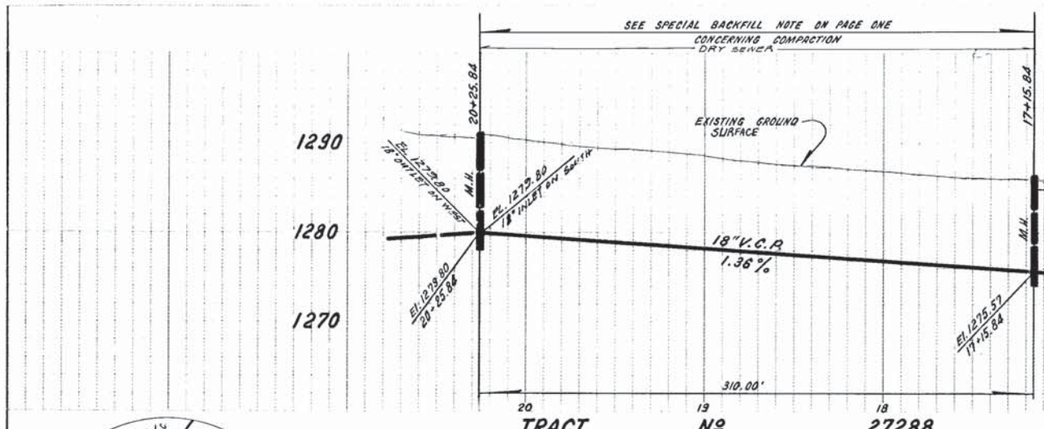
VISTA VALENCIA GOLF COURSE



LOT 5 ST JOHN SUBDIVISION M.B. 196/304-308
VISTA VALENCIA GOLF COURSE

LOT 5 ST JOHN SUBDIVISION M.B. 196/304-308
VISTA VALENCIA GOLF COURSE

DOUBLE SCALE
NO L.A. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES



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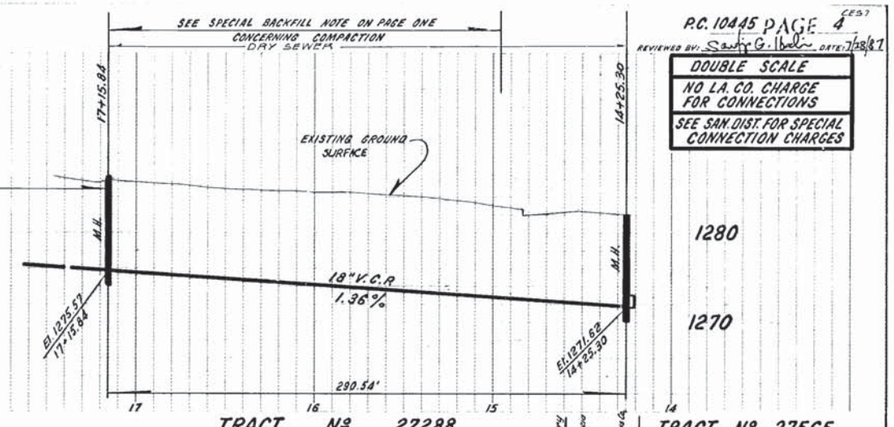
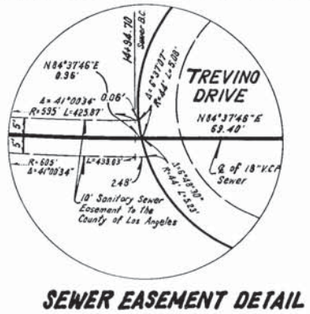


TRACT Nº 27288
M.B. 829/51-53

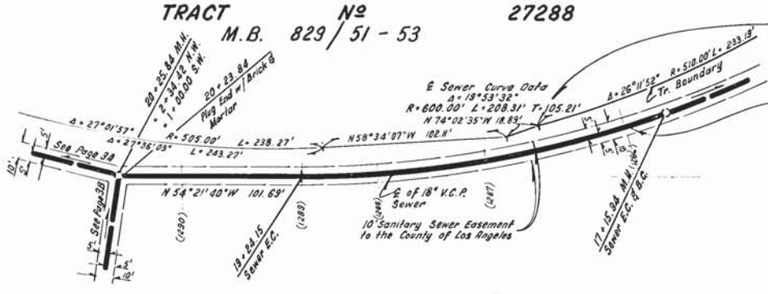
IDENTICAL POINTS

TRACT Nº 27288
M.B. 829/51-53

TRACT Nº 27565
M.B. 817/21-25

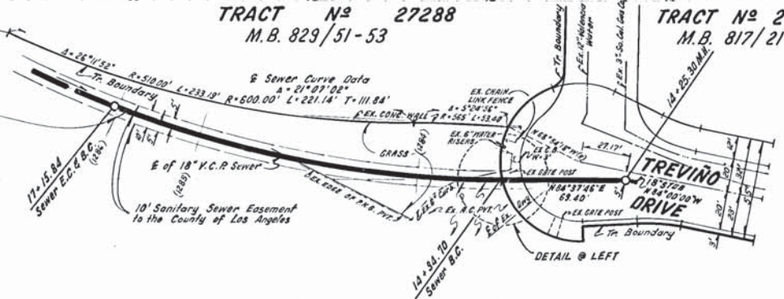


SEWER EASEMENT DETAIL
NO SCALE



LOT 5 ST JOHN SUBDIVISION M.B. 196/304-308
VISTA VALENCIA GOLF COURSE

"DRY SEWERS"

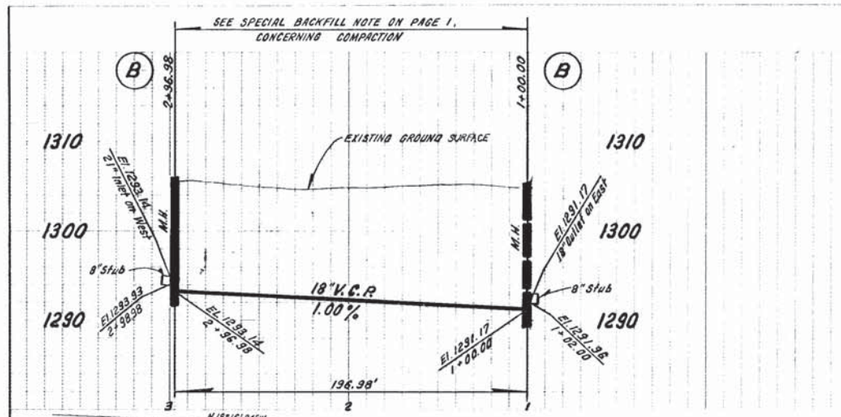


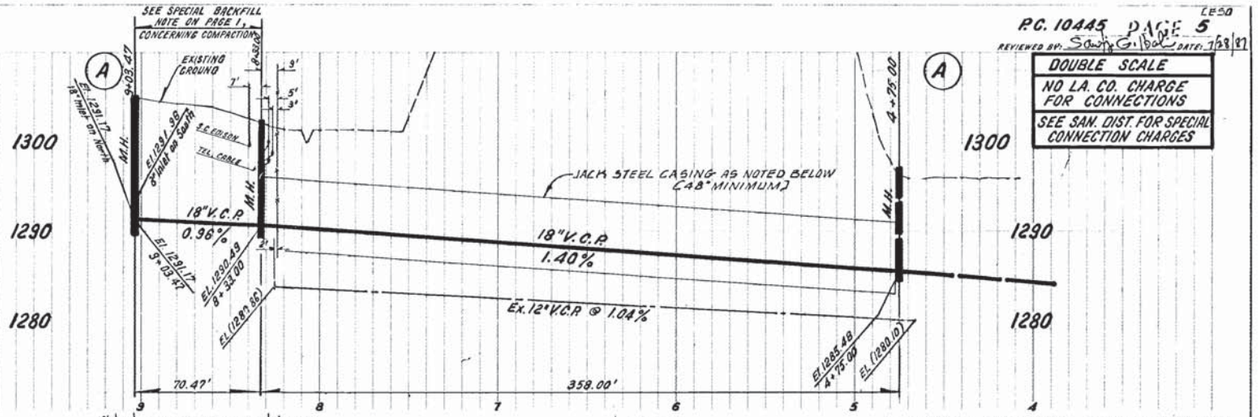
LOTS 5 & 8 ST JOHN SUBDIVISION M.B. 196/304-308
VISTA VALENCIA GOLF COURSE

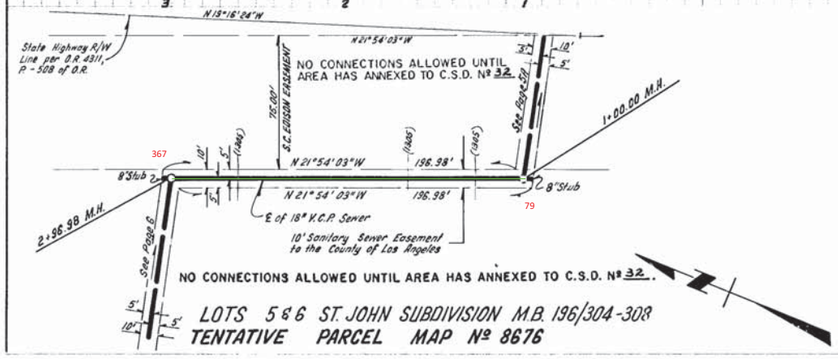
P.C. 10445 PAGE 5 LE50

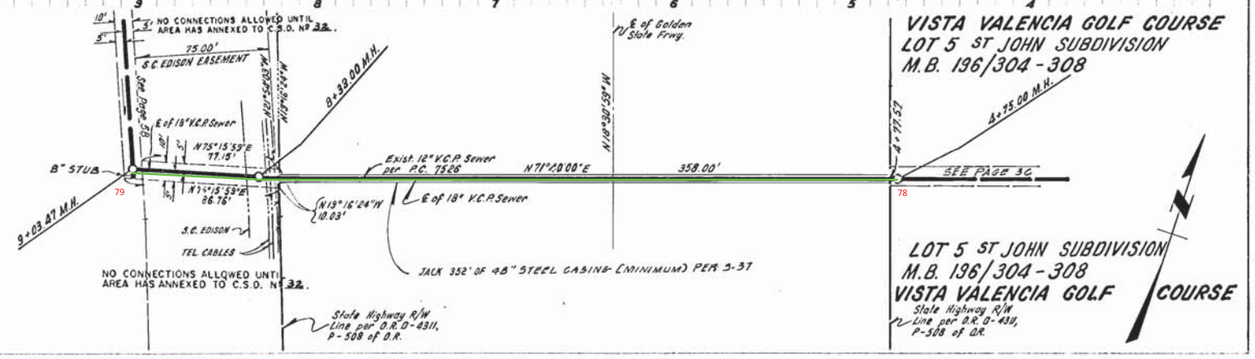
REVIEWED BY: Sandy G. Bol DATE: 7/28/87

DOUBLE SCALE
NO LA. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES





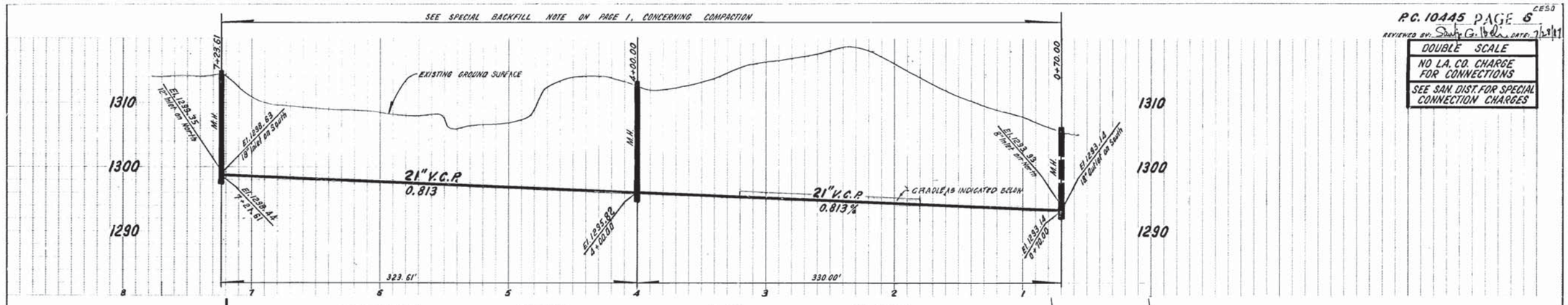


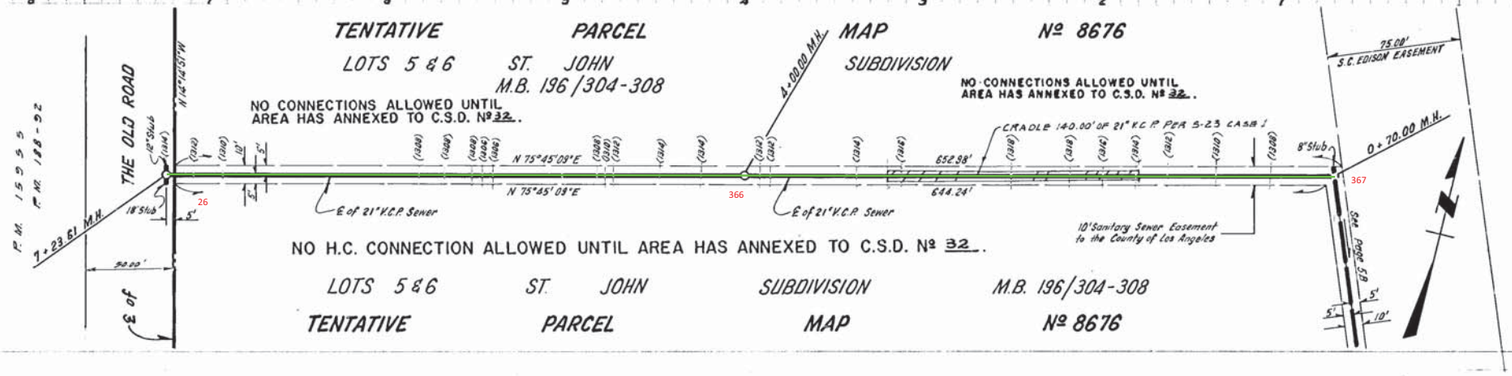


P.C. 10445 PAGE 6 LE50

REVIEWED BY: Sandy G. Bol DATE: 7/28/87

DOUBLE SCALE
NO LA. CO. CHARGE FOR CONNECTIONS
SEE SAN. DIST. FOR SPECIAL CONNECTION CHARGES





27288

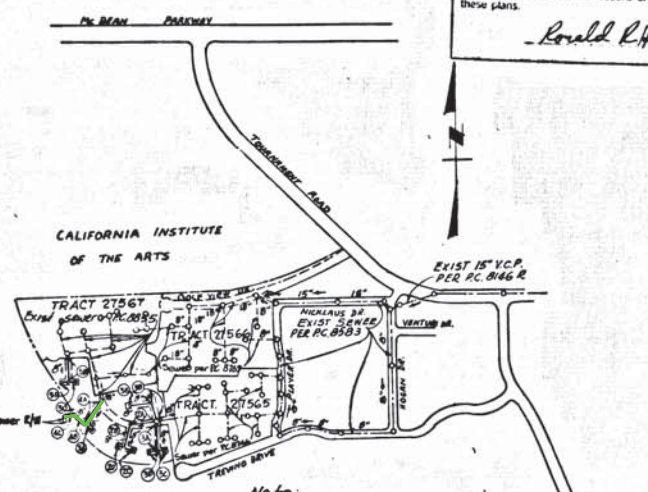
B.M. BL. 642 ELEV. 1262.066
Rd. Dept. B.M. tag in N. side of conc. base @ N.E. cor. Edison Tower Nº M-373W3-3 35' S. of ℄ of Lyons Ave & 30' E. of ℄ of Wiley Cyn. Rd.
Newhall QUAD. 1965

NOTICE TO CONTRACTOR

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans.

The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

Ronald R. Horn 16913
R.C.E.



Note:
1. All private driveways are Sanitary Sewer Easement.
2. Numbers in circle indicate page number

INDEX MAP
P.C. 8854
TR. NO. 27288
SCALE: 1"=500'

LOT 75 NOT SERVED, COMMON LOT FOR SLOPE ONLY

LOT 76 IS SERVED BY P.C. 8855

(PAGES 4 & 5)
ISSUE NO PERMITS UNTIL P.C. 8855 AND P.C. 8769 ARE ACCEPTED

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB OR ℄ OF ALLEY ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST PAY A FEE TO THE COUNTY ENGINEER, SANITATION DIVISION, RM. 12, 9950 E. IMPERIAL HIGHWAY, DOWNEY OR NEWHALL REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.

County Sanitation Districts shall be notified prior to the following so that required inspection can be made (Phone 337-1025 : : 838-1161)

Acceptance of the project.

No connections for the disposal of industrial wastes shall be made to sewers shown on these drawings without written permission from the Chief Engineer and General Manager of the County Sanitation Districts.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1970 EDITION WITH 1971/1972 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED APRIL 10, 1972 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 81381, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE, OR ℄ OF ALLEY
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-36.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN IMPROVED RIGHTS OF WAY TO BE LEVEL WITH FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D", "F", OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "D", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-1.2.7 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. SEWER PIPE BEDDING SHALL CONFORM TO S-21
14. SPECIAL BACKFILL IN DESIGNATED AREAS
    (a.) Backfill trench and replace other earth removed so as to achieve the natural or finished grade & slope shown on the grading plan approved for this tract by the Building & Safety Division.
    (b) All backfill & earth replaced shall be compacted to a minimum of 90% of the max. density per ASTM Standard method of test D698-57T as modified.
    Acceptable certification of such compaction shall be submitted to the Construction Div.

PROFILE, ALIGNMENT AND GRADE OF

SANITARY SEWERS

PAGE 1

CONSTRUCTED IN

TRACT NO. 27288

PRIVATE CONTRACT NO. 8854

INDEX 2525113
W.S. 63

3 SHEETS; 5 PAGES

44070

SCALE: VERT. 1"=4' HORIZ. 1"=40' OCTOBER, 1972

PREPARED IN THE OFFICES OF
SIKAND ENGINEERING ASSOCIATES
15205 BURBANK BLVD., VAN NUYS, CALIF. 91401

BY: Ronald K. Horn
REG. C. E. No. 16913

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-26
ALLOWABLE TRENCH WIDTHS	S-30
LOCKING MANHOLE FRAME AND COVER	S-35
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-36

COUNTY OF LOS ANGELES, CALIFORNIA

HARVEY T. BRANDT, COUNTY ENGINEER — JOHN D. PARKHURST, CHIEF ENGINEER

CO. SAN. DIST. NO. 32

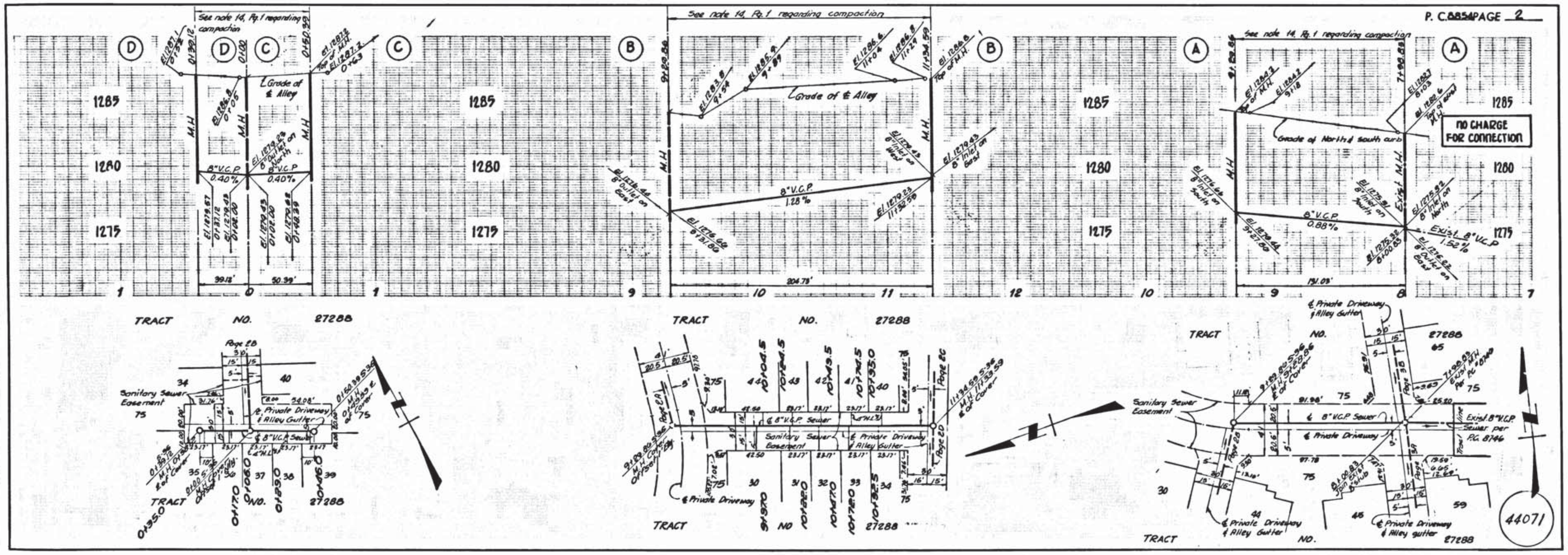
APPROVED Amando C. Ortiz 12/15/72 (REGIONAL ENGINEER) (DATE) — APPROVED D. Posthumus (OFFICE ENGINEER)

CHECKED Ralph J. Yalind 12-15-72 (DATE)

REG. C.E. NO. 14390

NEWHALL BLDG. DIST. 8.2 — J.N. 0250.02

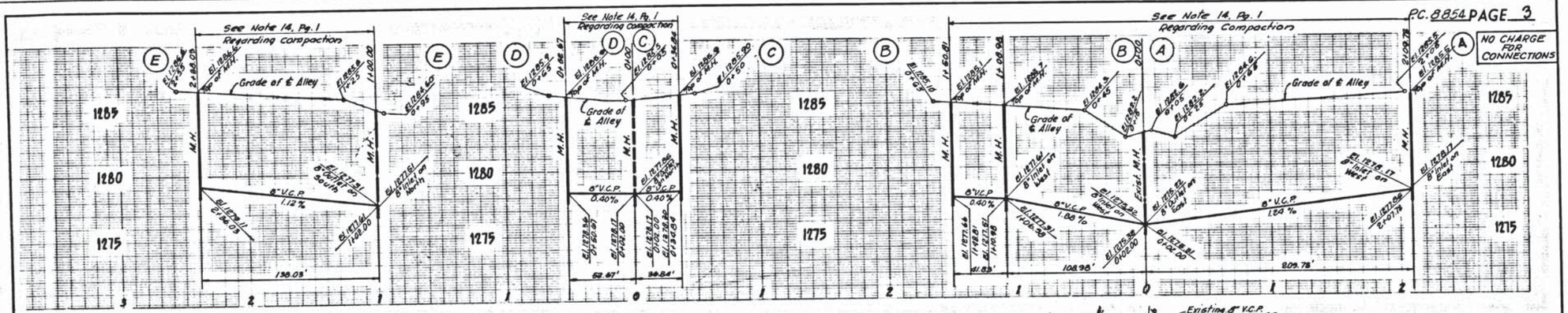
P.C. 8854 PAGE 2

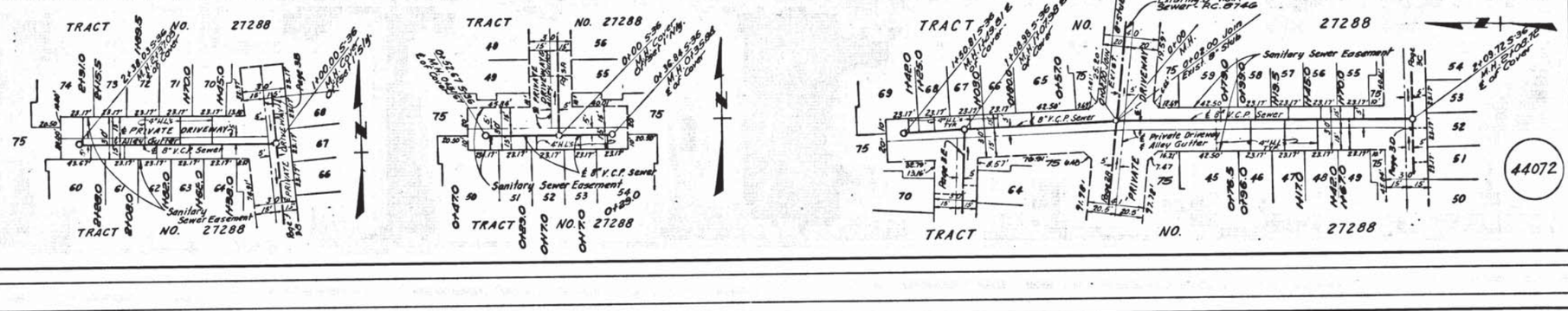


44071

P.C. 8854 PAGE 3

NO CHARGE FOR CONNECTIONS

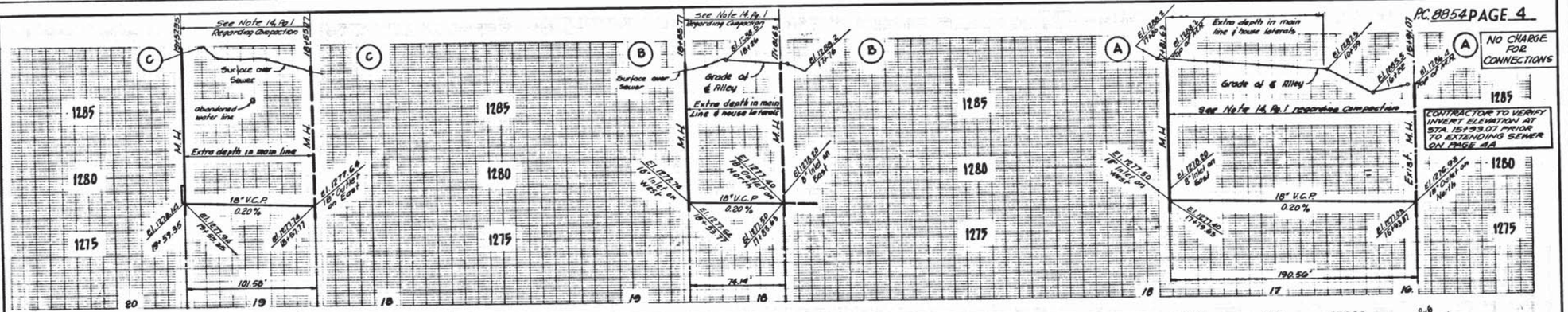


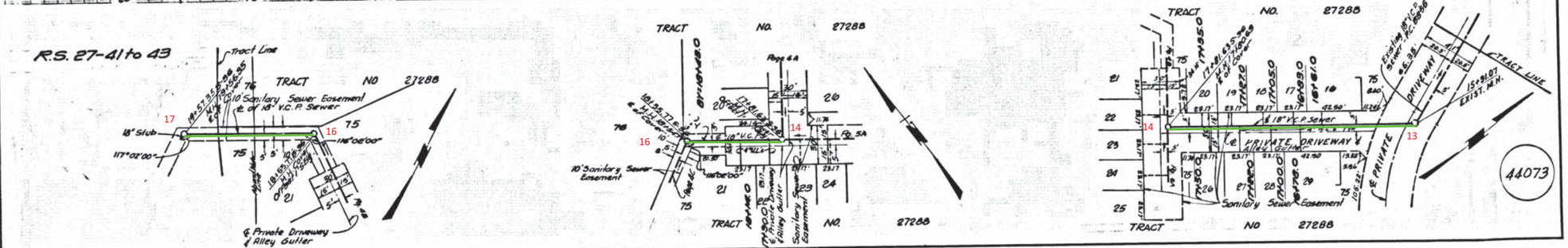


P.C. 8854 PAGE 4

NO CHARGE FOR CONNECTIONS

CONTRACTOR TO VERIFY INVERT ELEVATION AT STA. 151+93.07 PRIOR TO EXTENDING SEWER ON PAGE 4A





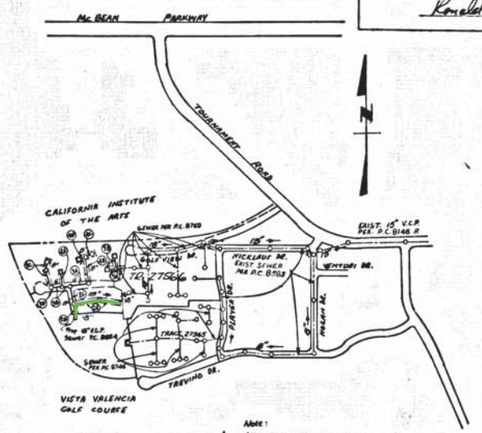
B.M. B.L. 642 ELEV. 1262.066
RD. Dept. B.M. tag in N. side of conc. base @ N.E. cor. Edison tower. Mt. M-3T3W5-3, 35' S. of ℄ of Lyons Ave. & 30' E. of ℄ of Wiley Canyon RD.
Newhall QUAD. 1965

NOTICE TO CONTRACTOR

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans.

The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

Ronald R. Horn 16913 R.C.E.



INDEX MAP
P.C. 8855
TRACT № 27567
SCALE: 1" = 500'

Note:
1. All private driveways are sanitary sewer easements
2. Figures in circles indicate page numbers

LOTS 78 & 79 NOT SERVED, COMMON LOTS FOR SLOPE ONLY

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. MEAN LOWER DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET. ℄ OF ALLEY
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST PAY A FEE TO THE COUNTY ENGINEER, SANITATION DIVISION, ROOM 19, BLDG. 2, IMPERIAL HIGHWAY, DOWNEY OR NEWHALL REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7-10.4.3 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.

County Sanitation Districts shall be notified prior to the following so that required inspection can be made (Phone 337-1025 : x 638-1161)

Acceptance of the project.

No connections for the disposal of industrial wastes shall be made to sewers shown on these drawings without written permission from the Chief Engineer and General Manager of the County Sanitation Districts.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1970 EDITION WITH 1972 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED APRIL 10, 1972 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, IN UNION 9-01, EXT. 51383, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE & FIRST BELOW CURB GRADE GIVE ℄ OF ALLEY
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-26.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN IMPROVED RIGHTS OF WAY TO BE LEVEL WITH FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "S", "I", OR "O" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "S", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-2.2.7 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. SEWER PIPE SHOWN AS SHALL CONFORM TO S-22

14. SPECIAL BACKFILL IN DESIGNATED AREAS
(a) Backfill trench and replace other earth removed as necessary to achieve the natural or finished grade & slope shown on the grading plan approved for this tract by the Building & Safety Division
(b) All backfill & earth replaced shall be compacted to a min. of 90% of the max density per ASTM Standard Method of Test D698-71T as modified
Acceptable certification of such compaction shall be submitted to the Construction Division

PROFILE, ALIGNMENT AND GRADE OF

SANITARY SEWERS

PAGE 1

CONSTRUCTED IN

TRACT Nº 27567

PRIVATE CONTRACT NO. 8855

INDEX 852 & 119
W.S. 63

9 SHEETS; 8 PAGES

SCALE: VERT. 1"=4' HORIZ. 1"=40' OCTOBER, 1972

PREPARED IN THE OFFICES OF

Sikand Engineering Associates, Inc.
18205 BURBANK BOULEVARD
VAN NUYS, CALIFORNIA 91401

BY Ronald R. Horn RCE № 10913

44011

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT.

LEGEND	
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-1
BRICK MANHOLE	S-2
STANDARD MANHOLE STEP	S-27
BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
WYE OR TEE SUPPORT	S-24
ALLOWABLE TRENCH WIDTHS	S-25
LOCKING MANHOLE FRAME AND COVER	S-25
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-26

COUNTY OF LOS ANGELES, CALIFORNIA

HARVEY T. BRANDT, COUNTY ENGINEER JOHN D. PARKHURST, CHIEF ENGINEER

APPROVED [signature] REGIONAL ENGINEER 12-15-72 (DATE) APPROVED [signature] SAN DIST. OFFICE ENGINEER

CHECKED [signature] (DATE)

SAN. C.I. NO. 14990

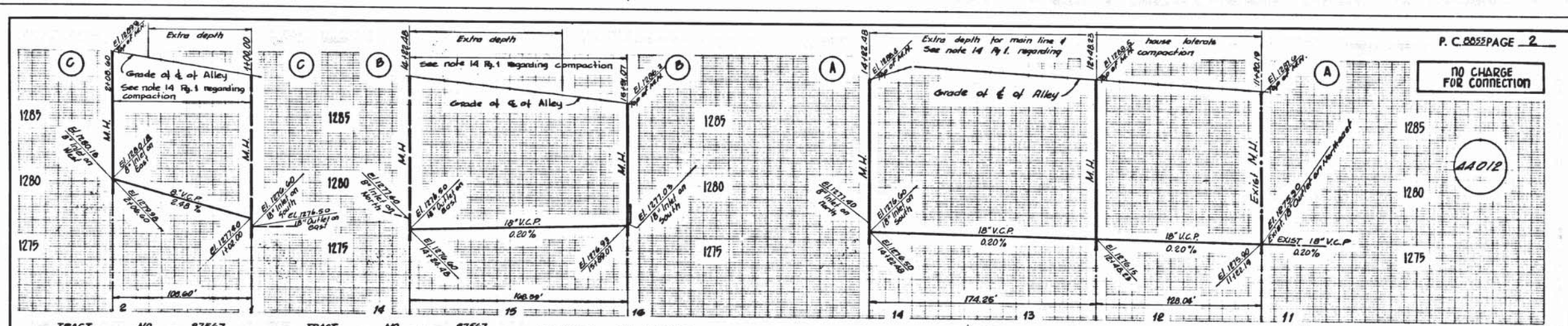
Newhall BLDG. DIST. 82

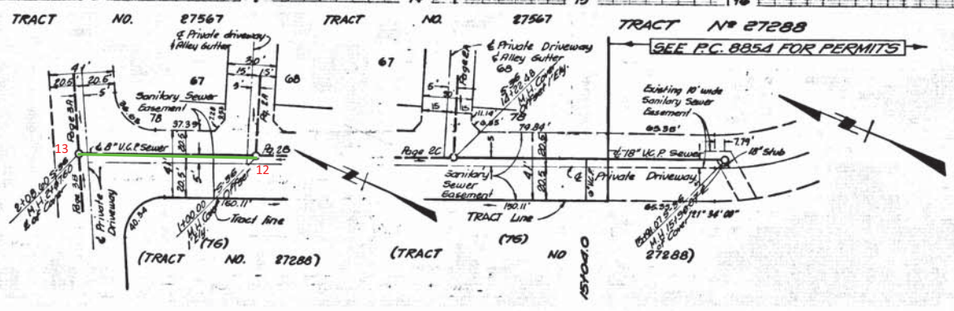
J.N. 0250.02

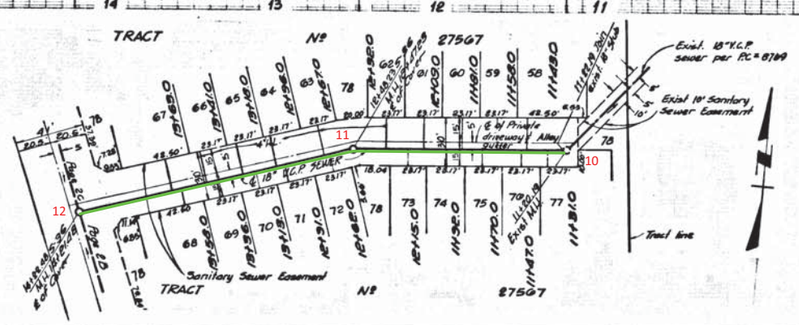
P. C. 8855 PAGE 2

NO CHARGE FOR CONNECTION

44012





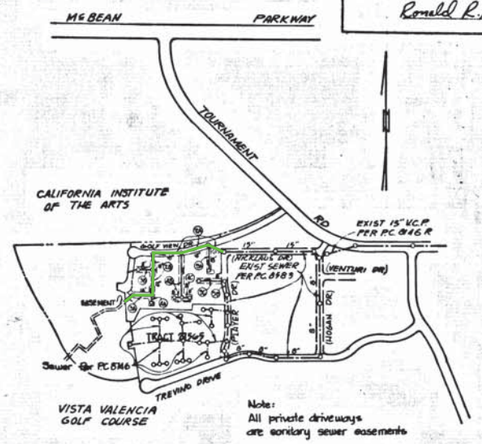


B.M. B.L. 642 ELEV. 1262.066
ROAD DEPT. B.M. TAG IN N. SIDE OF CONCRETE BASE AT N.E. COR. EDISON TOWER NO. M-37 S W3. 35'S. OF ℄ OF LYONS AVE 230'E. OF WILEY CYN. ROAD
NEWHALL QUAD. 1965

NOTICE TO CONTRACTOR

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans.
The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

Ronald R. Horn 16913 R.C.E.



Note:
All private driveways are sanitary sewer easements

INDEX MAP
SCALE: 1"=500'
P.C. 8769

Full compliance with section 306-1.9.3 of the special provisions will be required for backfill in streets. Certification of backfill compation & sand equivalents by a qualified, registered testing laboratory shall be provided by the permittee prior to the issuance of a certificate of partial acceptance

Lot 75 not served
Common lot for slope only

Issue no house conn. permits until P.C. 8588 is accepted.

GENERAL NOTES:

1. ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
2. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
3. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
4. GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
5. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 60° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
6. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
7. BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L. A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 8, AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 19 COUNTY ENGINEERING BUILDING, 9150 E. IMPERIAL HWY., DOWNEY OR NEWHALL REGIONAL OFFICE, TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
8. IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.
9. APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OR THE EXISTENCE OR NON EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
10. REFER TO SECTION 7-10.4.3 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.

BLDG

No connections for the disposal of industrial wastes shall be made to sewers shown on these drawings without written permission from the Chief Engineer and General Manager of the County Sanitation Districts.

County Sanitation Districts shall be notified prior to the following so that required inspection can be made (Phone 337-1025 - - 800-4664)

Acceptance of the project.

CONSTRUCTION NOTES:

1. WORK SHALL BE CONSTRUCTED ACCORDING TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1969 EDITION WITH 1971 & 1972 SUPPLEMENTS) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED MARCH 10, 1972 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, AT (DIVISION 9-4747, EXT. 61888), AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
3. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE ESCEPT AS NOTED.
4. WYE OR TEE BRANCHES MAY BE USED FOR CONNECTIONS TO MAINLINE SEWERS EXCEPT AS NOTED.
5. ALL STRUCTURES SHALL BE EITHER BRICK MANHOLES PER S-3 OR PRECAST CONCRETE MANHOLES PER S-26.
6. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
7. MANHOLE TOPS IN IMPROVED RIGHTS OF WAY TO BE LEVEL WITH FINISHED GRADE.
8. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "B", "F", OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
9. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, CASE II, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
10. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, CASE II UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
11. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEEVE JOINT, TYPE "C" OR "S", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
12. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-2.3.2 OF THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
13. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.

14. SPECIAL BACKFILL IN DESIGNATED AREAS
(a) Backfill trench and replace after earth removed so as to achieve the natural or finished grade & slopes shown on the grading plan approved for this tract by the Building and Safety Division
(b) All backfill and earth replaced shall be compacted to a minimum of 90% of the max. density per ASTM Standard Method of Test D698-57T as modified
Acceptable Certification of such compaction shall be submitted to the Construction Division

PROFILE, ALIGNMENT AND GRADE OF

SANITARY SEWERS

CONSTRUCTED IN

TRACT NO 27566

PRIVATE CONTRACT NO. 8769

Index 252-5-119

W.S. GS

3 SHEETS, 9 PAGES

SCALE: VERT. 1"=5' HORIZ. 1"=50' JUNE, 1972

PREPARED IN THE OFFICES OF
Sikand Engineering Associates, Inc.
18208 BURBANK BOULEVARD
VAN NUYS, CALIFORNIA 91401

BY: Ronald R. Horn 787-6880
REG. C. E. No. 16913

THE FOLLOWING LATEST REVISED STANDARD PLANS ON FILE IN THE OFFICE OF THE COUNTY ENGINEER SHALL APPLY IN THE CONSTRUCTION OF THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
STANDARD MANHOLE STEP	S-27
BEDDING FOR SEWER PIPE	S-28
CRADLING AND ENCASEMENT	S-29
WYE OR TEE SUPPORT	S-30
ALLOWABLE TRENCH WIDTHS	S-31
LOCKING MANHOLE FRAME AND COVER	S-32
NON-REINFORCED PRECAST CONCRETE MANHOLE	S-34
SPECIAL HOUSE LATERALS	S-39

43402

COUNTY OF LOS ANGELES, CALIFORNIA

HARVEY T. BRUNOT, COUNTY ENGINEER — JOHN D. PARKHURST, CHIEF ENGINEER
CO. SAN DIST. NO. 32

APPROVED L. Williams 8/3/72 (REGIONAL ENGINEER / DATE) — APPROVED H. Southmayd (OFFICE ENGINEER)

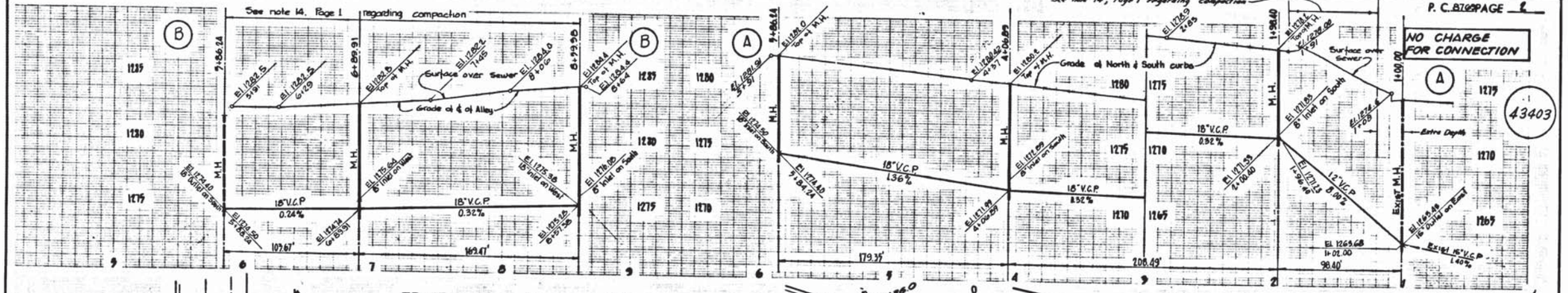
CHECKED Ralph Sylvia 8-3-72 (DATE)

SAN. C.E. NO. 15390

NEWHALL BLDG. DIST. 32

J. N. 0250.02

P. C. 8769 PAGE 2



L.A. COUNTY RENDER SHEET NO. 1 SOUTHERN CALIFORNIA BLUEPRINT CO.

PC 8769 PAGE 3

NO CHARGE FOR CONNECTION

43404

See note 14, Pg 1 regarding compaction

TRACT No 27566

LS 27-41-49
Portion Lot 5

Sewer Curve data
Δ = 28°39'18"
R = 150'
L = 54.07'

Extra depth

Identical

Grade ℄ of Alley

Sanitary Sewer Easement

8" Sanitary Sewer Easement

18" Stub

Sanitary Sewer Easement

℄ Private driveway

Identical floors

℄ Alley gutter

TRACT LINE

Curb line

℄ of Private driveway

℄ 8" V.C.P Sewer

℄ 18" V.C.P Sewer

Sanitary Sewer Easement

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PC 8769 PAGE 4

NO CHARGE FOR CONNECTION

43405

See note 14, Pg 1 regarding compaction

TRACT No 27566

Grade ℄ of Alley

Sanitary Sewer Easement

℄ Private Driveway ℄ Alley gutter

℄ 8" V.C.P Sewer

Curb line

DRIVE VIEW

GOLF

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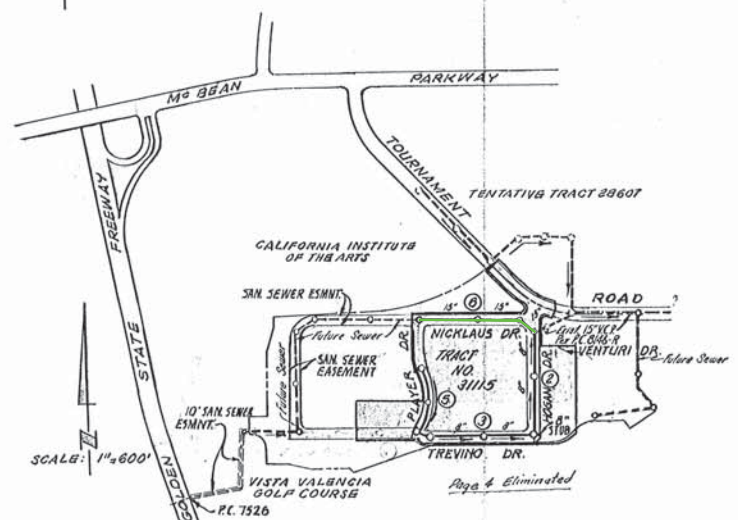
B.M. BL 642 ELEV. 1262.066
Road Department Bench Mark Tag in North side of concrete base of Northeast corner Edison tower on M-37SW3. 35' So. of ℄ of Lyons Ave. and 30' E. of ℄ of Wiley Canyon Road.
NEWHALL QUAD. 1965



INDEX MAP
SCALE: 1" = 600'
P. C. 8583
NOTE: NUMBERS IN CIRCLES INDICATE PAGE NUMBERS

THE FOLLOWING COUNTY ENGINEER STANDARD PLANS APPLY TO THIS PROJECT

LEGEND	S-1
MIN. PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
NON REINFORCED PRECAST CONCRETE MANHOLE	S-36
LOCKING MANHOLE FRAME AND COVER	S-35
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BEDDING FOR SEWER PIPE	S-21
CRADLING AND ENCASEMENT	S-23
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CHIMNEY PIPE AND BASE	S-27
ALLOWABLE TRENCH WIDTHS	S-33

REVISION:
LOWERED GRADES ON PAGE 3 (6+36.69 to 8+77.43) & 4 DUE TO WATER MAIN INTERFERENCE. ADDED CAST-IRON PIPE ON PAGE 4.
APPROVED: HARVEY T. BRANDT, COUNTY ENGINEER
BY: L. Williamson DATE: 4-23-71
R.C.E. Nº 11372
OFFICE OF THE COUNTY ENGINEER

REVISION:- 1. Sanitary Sewer On Page 4 deleted.
2. Added 6" H.L. For Lot 8 On Page 5.
APPROVED:- HARVEY T. BRANDT, COUNTY ENGINEER
BY:- Rudolph Jurinek 14390 R.C.E. Nº Date:- 12-20-71
OFFICE OF THE COUNTY ENGINEER

County Sanitation District shall be notified prior to the following so that required inspection can be made (Phone 387-1025 or 638-1161)

Acceptance of the project.

No connections for the disposal of industrial wastes shall be made to sewers shown on these drawings without written permission from the Chief Engineer and General Manager of the County Sanitation Districts.

NEWHALL BLDG. DIST. NO. 8.2

NOTES:

1. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
2. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
3. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL HOUSE LATERALS AND "Y" OR "T" BRANCHES & SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED. ALL HOUSE LATERALS SHALL BE CONSTRUCTED IN A STRAIGHT ALIGNMENT AT RIGHT ANGLES FROM THE MAIN LINE SEWER EXCEPT AS SHOWN ON THE PLANS. HOUSE LATERALS FROM CHIMNEYS SHALL NOT HAVE AN ANGLE OF LESS THAN 45° WITH THE MAIN LINE SEWER. ANY CHANGE IN ALIGNMENT SHALL BE REQUESTED IN WRITING BY THE PRIVATE ENGINEER.
4. THE PRIVATE ENGINEER SHALL FURNISH THE HOUSE LATERAL DEPTH AT THE PROPERTY LINE BELOW THE TOP OF CURB ELEVATION FOR EACH HOUSE LATERAL ON THE GRADE SHEET.
5. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 81551, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
7. MANHOLES SHALL BE BRICK SEWER STRUCTURES PER S-3, OR PRECAST CONCRETE MANHOLES PER S-36, EXCEPT AS NOTED
8. "Y" BRANCHES ONLY MAY BE USED FOR CONNECTIONS.
9. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
10. USE EXTRA STRENGTH PIPE. ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
11. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D", "F", OR "G" PER STANDARD SPECIFICATIONS SECTION 208-2.
12. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
13. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
14. HOUSE LATERALS TO BE CONSTRUCTED WITH INVERTS AT PROPERTY LINE 6 FEET BELOW CURB GRADE EXCEPT AS NOTED.
15. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. SEWERS TO BE TESTED FOR LEAKAGE PER SECTION 306-2.3.7 OF THE STANDARD SPECIFICATIONS.
17. REFER TO SECTION 7-10.4.1 OF THE STANDARD SPECIFICATIONS, REGARDING SAFETY ORDERS.
18. ALL JOINTS BETWEEN CAST IRON PIPE AND VITRIFIED CLAY PIPE SHALL BE MADE WITH A RUBBER SLEVE JOINT, TYPE "C" OR "D", (WITH BUSHING IF NECESSARY) PER STANDARD SPECIFICATIONS, SECTION 208-2.
19. SPECIAL BACKFILL IN DESIGNATED AREAS:
    (a) BACKFILL TRENCH AND REPLACE OTHER EARTH SO AS TO ACHIEVE THE NATURAL OR FINISHED GRADES AND SLOPES SHOWN ON THE GRADING PLAN APPROVED FOR THIS DEVELOPMENT BY THE BUILDING & SAFETY DIVISION.
    (b) ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO A MINIMUM OF 90% OF MAXIMUM DENSITY PER ASTM STANDARD METHOD OF TEST D698-57 T AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONSTRUCTION DIVISION.

COLLECT CHARGES AS INDICATED

NOTICE TO CONTRACTOR

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans. The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

Alvin J. Hotz Jr. R.C.E. 13698

PROFILE ALIGNMENT AND GRADE OF

SANITARY SEWERS

TO BE CONSTRUCTED IN

TRACT Nº 31115

PRIVATE CONTRACT NO. 8583

P.C. 8583 PAGE 1

INDEX 2553113 W.S. 63-D-3
3 SHEETS; 15 PAGES
SCALE: VERT. 1"=4' HORIZ. 1"=40' JANUARY, 1971

PREPARED IN THE OFFICES OF
VALCON INC.
1429 THOUSAND OAKS BLVD.
THOUSAND OAKS, CALIFORNIA

By: ALVIN J. HOTZ JR. REG. C. E. NO. 13698

42501

FOR LEGEND SEE PLAN NO. S-1

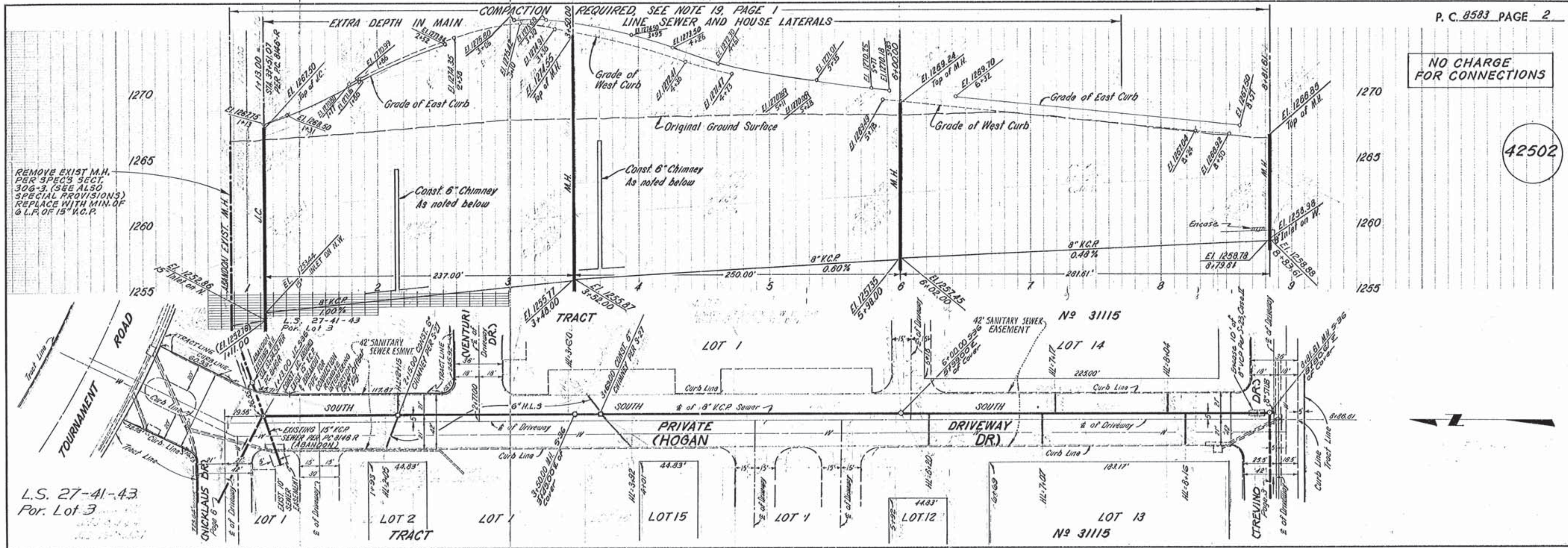
NOTE:
GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
WORK SHALL BE CONSTRUCTED ACCORDING TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1970 EDITION) AND COUNTY ENGINEER SPECIAL PROVISIONS FOR THE CONSTRUCTION OF SANITARY SEWERS DATED APRIL 7, 1970 AND SHALL BE PROSECUTED ONLY IN THE PRESENCE OF THE COUNTY ENGINEER.
BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 5, AND PAY A FEE TO THE COUNTY ENGINEER, SANIT. DIV. RM. 19, 9150 E. IMPERIAL HWY. DOWNEY, ... NEWHALL ... REGIONAL OFFICE, SUFFICIENT TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
APPROVAL OF THIS PLAN BY THE COUNTY OF LOS ANGELES DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF THE LOCATION OF OR THE EXISTENCE OR NON-EXISTENCE OF ANY UNDERGROUND UTILITY PIPE, OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THIS NOTE APPLIES TO ALL PAGES.
IF WORK IS TO BE DONE IN A STATE HIGHWAY, A PERMIT MUST BE OBTAINED FROM THE STATE OF CALIFORNIA, DIVISION OF HIGHWAYS, 120 SOUTH SPRING STREET, LOS ANGELES, CALIFORNIA.

COUNTY OF LOS ANGELES, CALIFORNIA
HARVEY T. BRANDT, COUNTY ENGINEER — J. D. PARKHURST, CHIEF ENGINEER, CO. SAN. DIST. NO. 32
APPROVED BY, L. Williamson, REGIONAL ENGINEER — APPROVED BY, E. P. Brunch for OFFICE ENGINEER
CHECKED BY Rudolph Jurinek 4-5-71 REG. C.E. NO. 14390

J. N. 0250.02

P. C. 8583 PAGE 2

NO CHARGE FOR CONNECTIONS



L.A. COUNTY SEWER SHEET NO. 1

P.C. 8583 PAGE 5

COMPACTION REQUIRED, SEE NOTE 19, PAGE 1

NO CHARGE FOR CONNECTIONS

42505

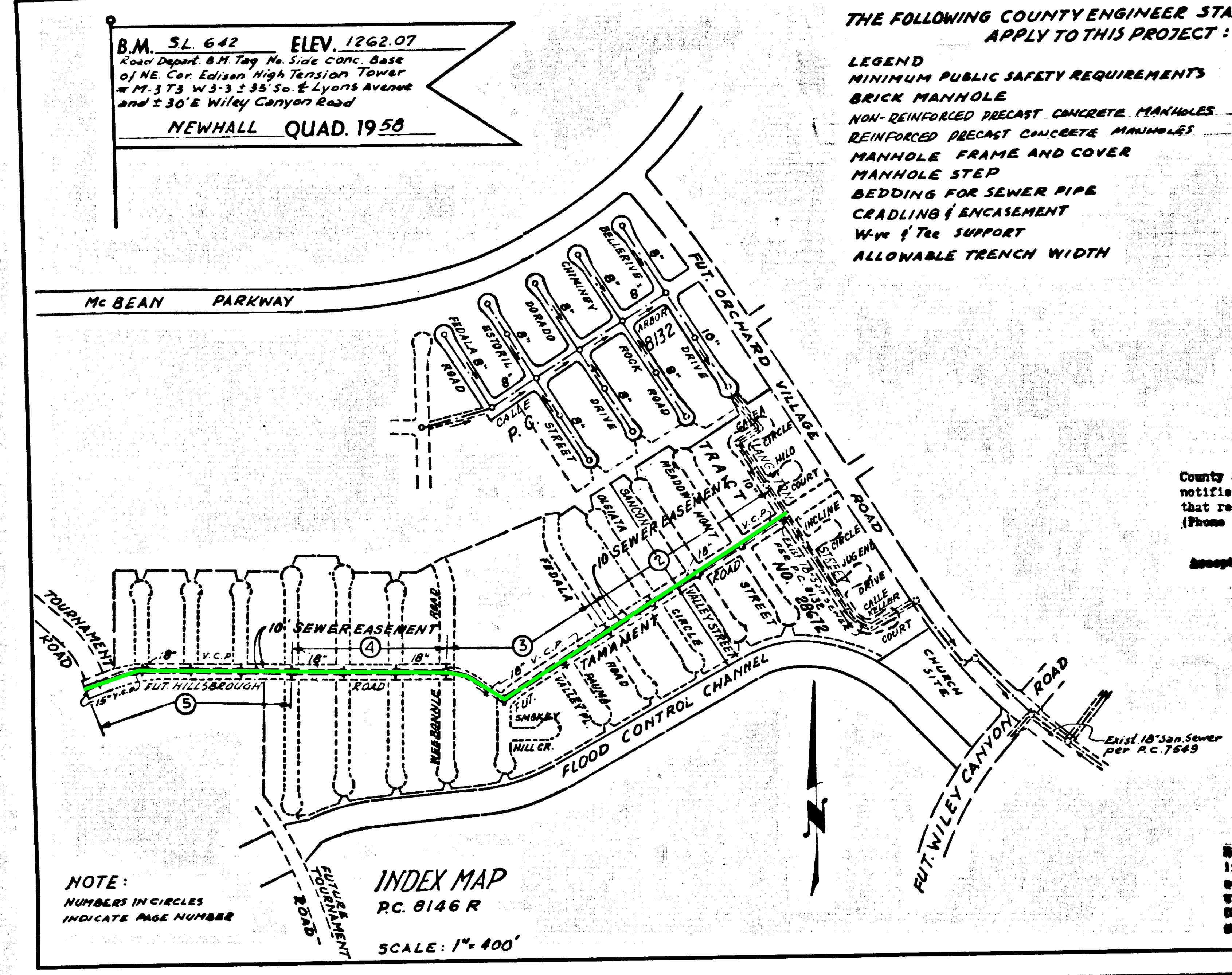
P.C. 8583 PAGE 6

EXTRA DEPTH IN MAIN LINE SEWER AND HOUSE LATERALS
COMPACTION REQUIRED, SEE NOTE 19, PAGE 1

NO CHARGE FOR CONNECTIONS

42506

L.A. COUNTY SEWER SHEET NO. 2



NOTE: NUMBERS IN CIRCLES INDICATE PAGE NUMBER

INDEX MAP
P.C. 8146 R
SCALE: 1" = 400'

THE FOLLOWING COUNTY ENGINEER STANDARD PLANS APPLY TO THIS PROJECT:

LEGEND	S-1
MINIMUM PUBLIC SAFETY REQUIREMENTS	S-2
BRICK MANHOLE	S-3
NON-REINFORCED PRECAST CONCRETE MANHOLES	S-5
REINFORCED PRECAST CONCRETE MANHOLES	S-6
MANHOLE FRAME AND COVER	S-15
MANHOLE STEP	S-17
BEDDING FOR SEWER PIPE	S-21
CRADLING & ENCASEMENT	S-23
W-ye & Tee SUPPORT	S-26
ALLOWABLE TRENCH WIDTH	S-33

County Sanitation Districts shall be notified prior to the following so that required inspection can be made (Phone 387-1025):

Acceptance of the project.

No connections for the disposal of industrial wastes shall be made to sewers shown on these drawings without written permission from the Chief Engineer and General Manager of the County Sanitation Districts.

DOUBLE SCALE

NEWHALL BLDG. DIST. NO. 8.2

NOTES:

1. PROVIDE STAKES ON THE PROPERTY LINE OR PROPERTY LINES PRODUCED AT RIGHT ANGLES TO THE SEWER LINE AT THE CENTER LINE OF EACH MANHOLE.
2. NO REPRESENTATIVE OF THE COUNTY ENGINEER WILL SURVEY OR LAY OUT ANY PORTION OF THE WORK.
3. THE PRIVATE ENGINEER SHALL FURNISH THE COUNTY ENGINEER WITH GRADE SHEETS AND STATIONING FOR ALL "Y" OR "T" BRANCHES AND SHALL PROVIDE STAKES FOR THEM AT THEIR PROPER LOCATIONS WITH STATIONING PLAINLY MARKED.
5. NO REVISIONS SHALL BE MADE IN THESE PLANS WITHOUT THE APPROVAL OF THE COUNTY ENGINEER.
6. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION DIVISION BY TELEPHONE, MADISON 9-4747, EXT. 81881, AT LEAST TWENTY-FOUR HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
7. MANHOLES SHALL BE BRICK SEWER STRUCTURES PER S-3, OR PRECAST CONCRETE MANHOLES PER S-5 OR S-6, EXCEPT AS NOTED.
8. USE STANDARD MANHOLE FRAMES AND COVERS, S-15.
9. MANHOLE TOPS IN UNIMPROVED RIGHTS-OF-WAY TO BE SIX INCHES ABOVE FINISHED GRADE.
10. USE EXTRA STRENGTH PIPE. ALL PIPE IS STANDARD DEPTH EXCEPT AS NOTED.
11. VITRIFIED CLAY PIPE JOINTS SHALL BE TYPE "D" "F" OR "G" PER STD. SEC. 2.08-2
12. IF A POWER POLE IS WITHIN THREE FEET OF THE SEWER, THE SEWER SHALL BE ENCASED, PER S-23, TWO FEET ON EACH SIDE FROM THE POINT OF INTERFERENCE.
13. IF DURING THE COURSE OF CONSTRUCTION IT IS DETERMINED THAT THERE IS LESS THAN FOUR FEET OF COVER OVER THE TOP OF A MAIN LINE OR HOUSE LATERAL V.C.P. SEWER WHICH IS NOT INDICATED ON THE PLANS, THE PIPE SHALL BE ENCASED PER S-23, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
15. RESURFACE ALL TRENCHES WITHIN PAVED AREAS TO MEET L.A. COUNTY ROAD DEPT. OR CALIFORNIA STATE HIGHWAY REQUIREMENTS IN ACCORDANCE WITH PERMITS.
16. SEWERS TO BE TESTED FOR LEAKAGE PER SEC. 306-2.3.7 OF STD. SPECS.
17. REFER TO SEC. 7-10.4.1 OF THE STANDARD SPECIFICATIONS REGARDING SAFETY ORDERS
18. "Tee or Wye" BRANCHES MAY BE USED FOR CONNECTION TO MAIN LINE SEWERS, EXCEPT AS NOTED.
19. SPECIAL BACKFILL IN DESIGNATED AREAS: a. BACKFILL TRENCH AND REPLACE OTHER EARTH REMOVED SO AS TO ACHIEVE THE NATURAL OF FINISHED GRADES AND SLOPES SHOWN ON GRADING PLANS, TR-28872-2873-2874, APPR. BY THE BUILDING AND SAFETY DIVISION; b. ALL BACKFILL AND EARTH REPLACED SHALL BE COMPACTED TO THE MIN. OF 90% OF MAXIMUM DENSITY PER ASTM STD METHOD OF TEST D-698-577 AS MODIFIED. ACCEPTABLE CERTIFICATION OF SUCH COMPACTION SHALL BE SUBMITTED TO THE CONST. DIVISION.
20. SEWER PIPE BEDDING SHALL CONFORM TO S-21.

THE SEWER EASEMENT FOR THIS PROJECT HAS BEEN DEDICATED PER TRACT NO. 28671, M.B. 781-78-84

DO NOT ISSUE HOUSE CONNECTION PERMITS UNTIL P.C. 8132 IS ACCEPTED

NOTICE TO CONTRACTOR

The existence and location of any underground utility pipes or structures shown on these plans are obtained by a search of the available records. To the best of my knowledge there are no existing utilities except as shown on these plans.
The contractor is required to take due precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.

Michael F. Madden R.C.E. 16744

PROFILE, ALIGNMENT AND GRADE OF

SANITARY SEWERS

P.C. 8146 R PAGE 1

CONSTRUCTED IN

RIGHT OF WAY SOUTH OF McBEAN PARKWAY BETWEEN LANGSTON STREET AND TOURNAMENT ROAD

PRIVATE CONTRACT NO. 8146 R

W.S. 62

3 SHEETS; 5 PAGES

SCALE: VERT. 1"—8' HORIZ. 1"—40' AUGUST, 1968

41316

PREPARED IN THE OFFICES OF
VOORHEIS-TRINDLE CO.
5919 Van Nuys Blvd., Van Nuys, California.

By: Michael F. Madden
REG. C. E. NO. 16744

FOR LEGEND SEE PLAN NO. S-1

NOTE:
GRADES TO WHICH THIS IMPROVEMENT IS TO BE CONSTRUCTED ARE SHOWN ON PLANS AND PROFILES. GRADE POINTS FOR TOP OF CURBS, CENTER LINE OF STREETS, OR CENTER LINE OF ALLEYS ARE SHOWN BY CIRCLES ON PROFILES. AT ALL POINTS BETWEEN DESIGNATED POINTS THE GRADE SHALL BE ESTABLISHED SO AS TO CONFORM TO A STRAIGHT LINE DRAWN BETWEEN SAID DESIGNATED POINTS.
ELEVATIONS ARE IN FEET ABOVE U.S.C. & G.S. SEA LEVEL DATUM OF 1929.
THIS DRAWING AND THE DATA HEREON ARE HEREBY MADE A PART OF THE SPECIFICATIONS.
WORK SHALL BE CONSTRUCTED ACCORDING TO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION & COUNTY ENGINEER SPECIAL PROVISIONS DATED JAN 2, 1969 AS REVISED, AND SHALL BE PROSECUTED IN THE PRESENCE OF COUNTY ENGINEER.
BEFORE WORK CAN BE STARTED, THE CONTRACTOR MUST OBTAIN A PERMIT TO EXCAVATE IN COUNTY STREETS FROM THE L.A. COUNTY ROAD DEPT., DISTRICT OFFICE NO. 5, AND PAY A FEE TO THE COUNTY ENGINEER, ROOM 330, COUNTY ENGINEERING BUILDING, 108 WEST SECOND STREET OR NEWHALL REGIONAL OFFICE, SUFFICIENT TO COVER THE COST OF CONSTRUCTION INSPECTION AND RECORD PLANS.
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COUNTY OF LOS ANGELES, CALIFORNIA

JOHN A. LAMBIE, COUNTY ENGINEER
J. D. PARKHURST, CHIEF ENGINEER
CO. SAN. DIST NO. 32
APPROVED BY [signature] OFFICE ENGINEER

APPROVED BY [signature] REGIONAL ENGINEER

CHECKED BY Ralph Schafer 2/21/69 REG. C.E. NO. 13906

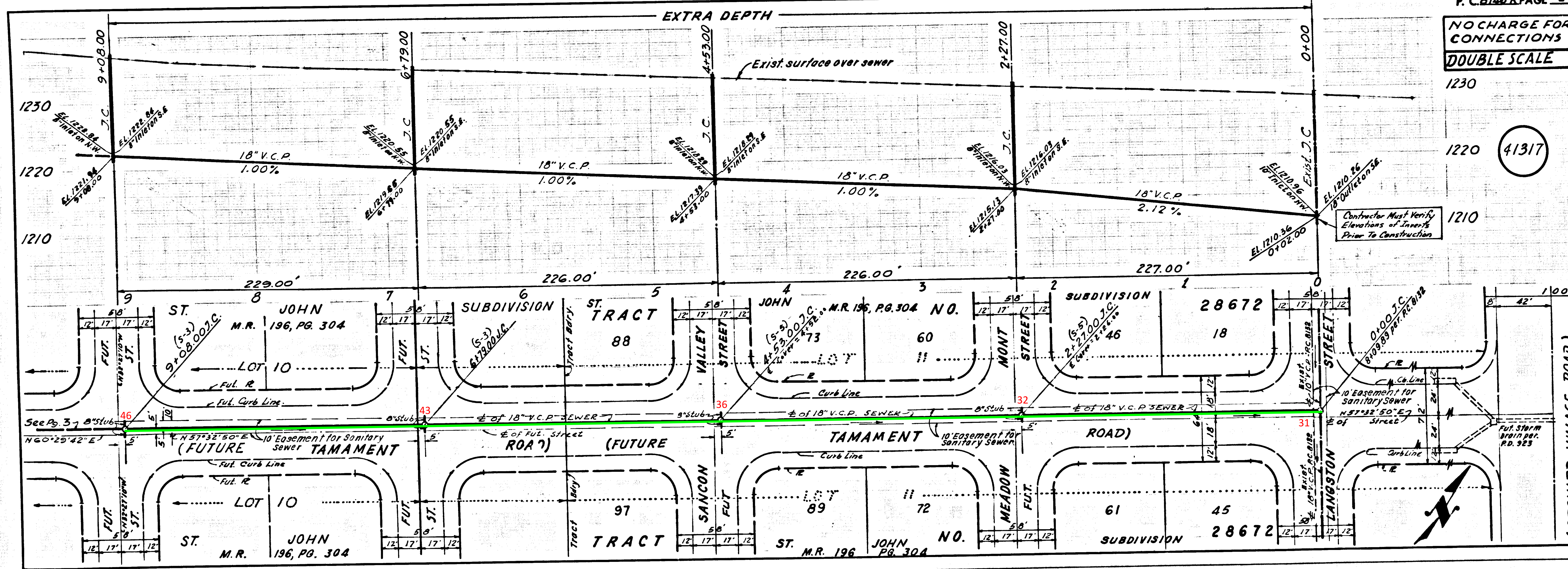
J.N. 0369.34

P.C. 8146 R PAGE 2

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

41317



L.A. COUNTY SEWER SHEET NO. 1

P.C. 8146R PAGE 3

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

41318

EXTRA DEPTH

Use Type "G" Joints - 5' Lengths max.

Exist. surface over sewer

IDENTICAL

18" V.C.P. 1.00%

295.49'

322.21'

226.23'

FUTURE SCHOOL SITE

SUBDIVISION M.R. 196, Pg. 304

Prop. Lot Line N 50°05'24" W 109.01'

STREET

IDENTICAL POINTS

18" V.C.P. SEWER

10' EASEMENT FOR SANITARY SEWER

TAMAMENT ROAD

SUBDIVISION M.R. 196, Pg. 304

SEWER CURVE DATA: Δ = 39°47'00" R = 225' T = 81.44' L = 156.28' (SEE NOTE ABOVE)

See Page 4

See Page 5

P.C. 8146R PAGE 4

NO CHARGE FOR CONNECTIONS

DOUBLE SCALE

41319

EXTRA DEPTH

Exist. surface over sewer

18" V.C.P. 1.52%

18" V.C.P. 1.00%

226.00'

226.00'

216.00'

SUBDIVISION M.R. 196, Pg. 304

10' sanitary Sewer Easement

(FUTURE HILLSBOROUGH ROAD)

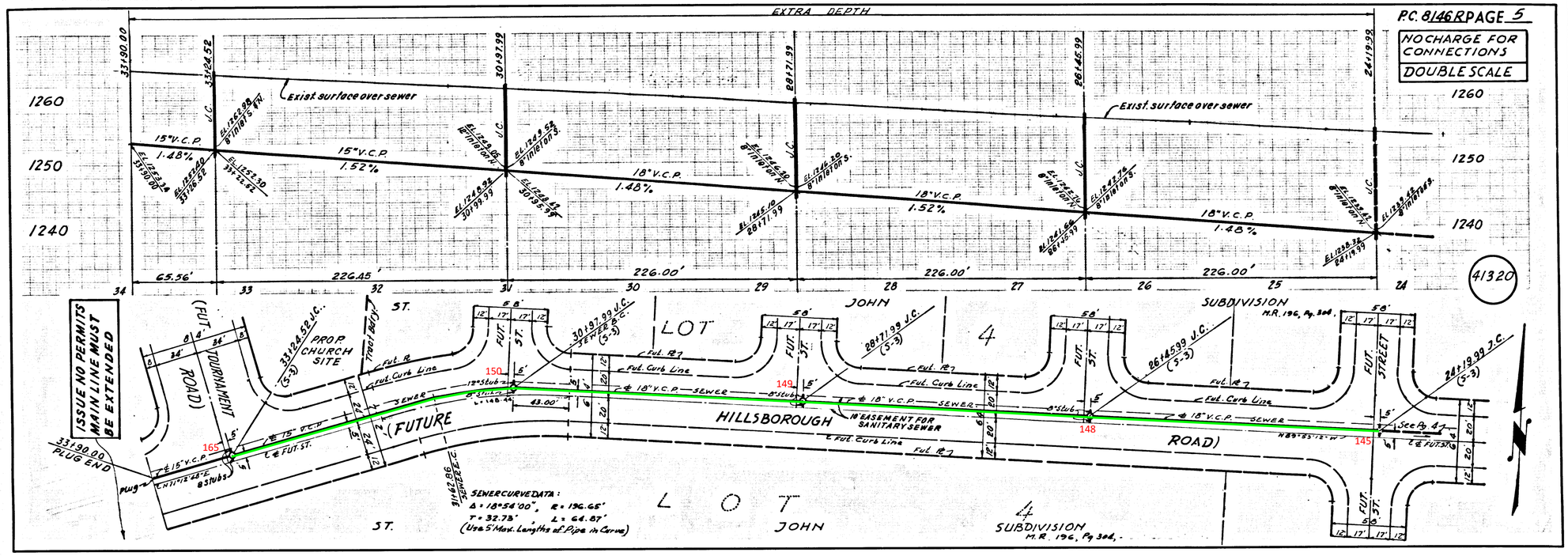
10' SEWER EASEMENT

See Page 3

See Page 5

P.C. 8146R PAGE 5

NO CHARGE FOR CONNECTIONS
DOUBLE SCALE



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