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CIVIL ENGINEERS - PLANNERS - LAND SURVEYORS

PRELIMINARY HYDROLOGY STUDY

FOR

TORRANCE COMMERCE CENTER

2271-2311 & 2341 WEST 205TH STREET

IN THE

CITY OF TORRANCE, CA

DECEMBER 2023

PREPARED BY:

WALDEN & ASSOCIATES
2552 WHITE ROAD, SUITE B
IRVINE, CA 92614



JN: 2089-940-001



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SECTION 1

DISCUSSION



PURPOSE

This preliminary report has been prepared to support the proposed design of a drainage system, which will provide the desired conveyance and the required storm protection according to the City of Torrance and to demonstrate the ability of the development to mitigate the storm flow runoff so as not to exceed the existing site's Q10 runoff that currently drains toward the public storm drain system. This drainage mitigation is necessary to limit the site runoff to the existing Q10 runoff to the public storm drain system that is deficient in capacity based on the most current City of Torrance Master Plan of Drainage (MPD).

As part of the development conditions runoff shall be limited to the 10-year flows that the existing development would have contributed to the tributary area, which will be established in this hydrology study and any increased runoff must be mitigated by the development by on-site detention and retention. This condition must be maintained until downstream deficiencies have been attained by the City.

PROJECT DESCRIPTION

The project site is currently developed as a commercial property with six building and associated hardscape including parking areas and landscaping and is located along West 205th Street between Amapola Avenue and Beech Avenue. The project is bounded by existing residential units to the north with Del Amo Boulevard beyond, existing commercial properties to the east and west and W 205th Street to the south. The proposed development will consist of one building with associated hardscaping including parking areas and landscaping. The existing site has four driveways that access the site; the proposed development will eliminate two. The property's acreage is approximately 6.3 acres. The existing 40-year-old, 42-inch RCP public storm drain traversing the property in a north south direction will be relocated due to the location of the proposed 132,000 square foot building. No flow from the site will be added to the relocated 42-inch pipe all site flows will be directed to the existing catch basin at the north easterly corner of the site. Additionally, five of the six existing grated catch basins will be removed and abandon, the one remaining will be modified to have the grate 6" above the proposed curb to be used as an additional protection method.

The entire site's post-development runoff will be directed to the proposed private underground storm drain system. The subsurface discharge will then be diverted through the first diversion manhole into the proposed infiltration system that is sized to capture the required 17,512 c.f. of first-flush runoff; this volume will then be infiltrated. As the 50-year storm event peaks, the maximum allowable 50-year discharge into the City's existing storm drain system will be restricted to 7.31 cfs at the second diversion manhole to match the pre-development discharge. Any increase in the post-development discharge (up to 5 cfs) will be mitigated by diverting the flow increase at the aforementioned second diversion manhole into a proposed detention system sized to detain 3,003 c.f. The detention system will be sloped at a minimal uphill slope of 0.0020, allowing the single connecting pipe to act as both the inflow and outflow conduit of the detained volume. Once the peak storm event subsides below the restricted 7.31 cfs runoff, the detention system will empty itself back into the second diversion manhole and will discharge with the rest of the site's runoff into the City's storm drain system.

DESCRIPTION OF WATERSHED

The existing topography of the site splits the drainage pattern into two runoff areas. The majority of the site, which is approximately 94-percent of the entire project area, is tabled to surface drain in a northerly direction to several grated catch basins that join an existing 42-inch storm drain line (MTD 1062), running in an east west direction. The remaining area, approximately 6-percent of the site, is tabled to surface drain in a southerly direction to West 205th Street to several public catch basins along the north side of the street, that eventually join the 42-inch storm drain line stated above.

The proposed development will maintain similar drainage patterns to the existing development condition, dividing the site into the two runoff areas. Area "A" will surface drain to multiple proposed grated catch basins, storm drain pipe, low flow pretreatment unit and infiltration facility before joining the existing 42" storm drain line stated above. It should be noted that any existing catch basins located off site, will remain. Area "B", which will now be predominantly landscaping, will surface drain in a southerly direction as stated above, and was not modeled, since the conditions have been improved, due to increased perviousness.

The proposed storm drain system will collect site water and direct the flows towards the proposed diversion manhole were the BMP flows (prepared under separate cover) along with the difference between the proposed Q50 (12.75 cfs) and the existing Q10 (7.31 cfs), which is 5.44 cfs or 3,003 cf will be directed to a

METHODOLOGY

This Hydrology Study was performed using the HydroCalc Calculator as required by the LA County Department of Public Works. The calculations were done for the existing 10-year frequency and the proposed 50-year storm frequency. The proposed inlets, pipes, and other drainage structures were sized for the 50-year storm event.

The storm drain hydraulics were analyzed by the CivilDesign WSPG computer software program. The controlling water surface elevation was obtained from the storm drain plans prepared for Tract #39796 (MTD 1062) and adjusted to current datum. All upstream flows were obtained from the MPD.

FLOODING HAZARD

Based on the most current Flood Insurance Rate Map (September 26, 2008) prepared by the Federal Emergency Management Agency (FEMA), the site has been determined to lie within the unshaded ZONE X which is an area outside the 0.2% (500-year) annual chance floodplain.

SUMMARY

Plans for which this report has been prepared will meet all standards of rainstorm protection as adopted by the City of Torrance. Should the on-site inlets clogged and/or become inoperable overflow for the project site will spill through relief holes in the new wall along Madrid Street at an elevation of approximately 68.10, which is 3.9-feet below the finish floor of 72.00 and will provide

protection to the building against a 50-year storm. Additionally, as stated above there will be an additional relief measure provided at the remaining grated catch basin and the driveways which are approximately 1.0-feet below the finish floor of the building.

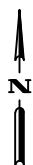


SECTION 2

VICINITY MAP



THOMAS GUIDE
MAP 763 GRID G-4



NO SCALE



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**LOCATION MAP
TORRANCE COMMERCE CENTER
2271-2311 & 2341 W. 205TH STREET
TORRANCE, CA**

W.O. No. 2089-940-001
Engr. SK Chkd. MV

Date 12/2022
Sheet 1 of 1



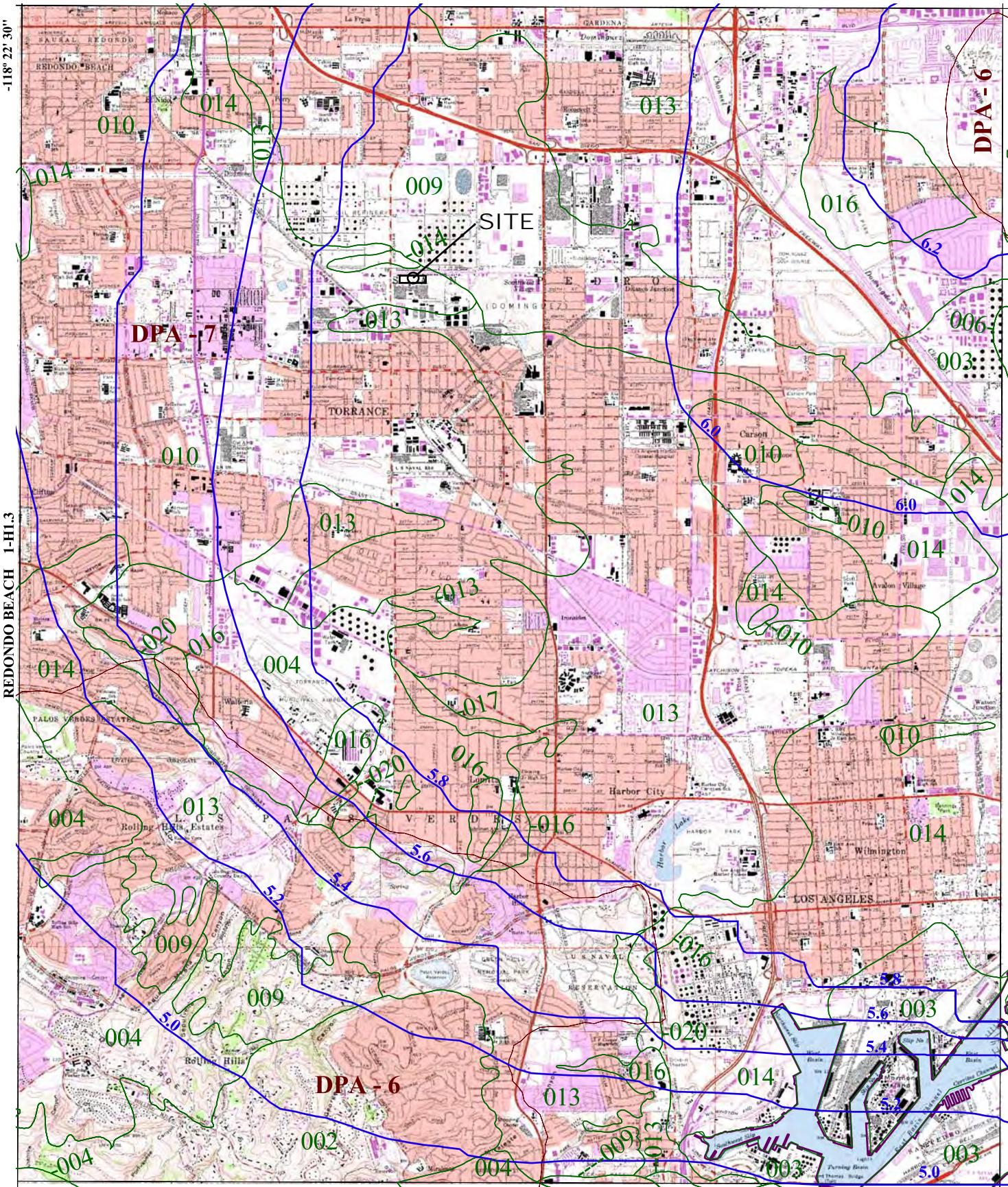
SECTION 3

HYDROLOGIC CLASSIFICATION OF SOILS & ISOHYET
(50-YEAR 24-HOUR ISOHYET = 5.87")
(SOIL CLASSIFICATION = 010)

33° 52' 30"

INGLEWOOD 1-H1.8

-118° 22' 30"



SAN PEDRO 1-H1.2

33° 45' 00"



016

SOIL
CLASSIFICATION
AREA

7.2

INCHES OF
RAINFALL

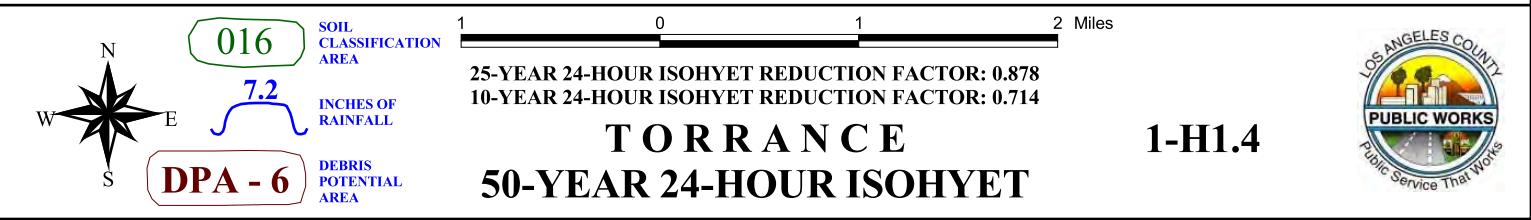
DPA - 6

DEBRIS
POTENTIAL
AREA

25-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.878
10-YEAR 24-HOUR ISOHYET REDUCTION FACTOR: 0.714

T ORRANCE
50-YEAR 24-HOUR ISOHYET

1-H1.4





SECTION 4.1

HYDROLOGY

FREQUENCY:	10-YEAR EXISTING
ISOHYET:	5.87"
SOIL CLASS:	010

Peak Flow Hydrologic Analysis

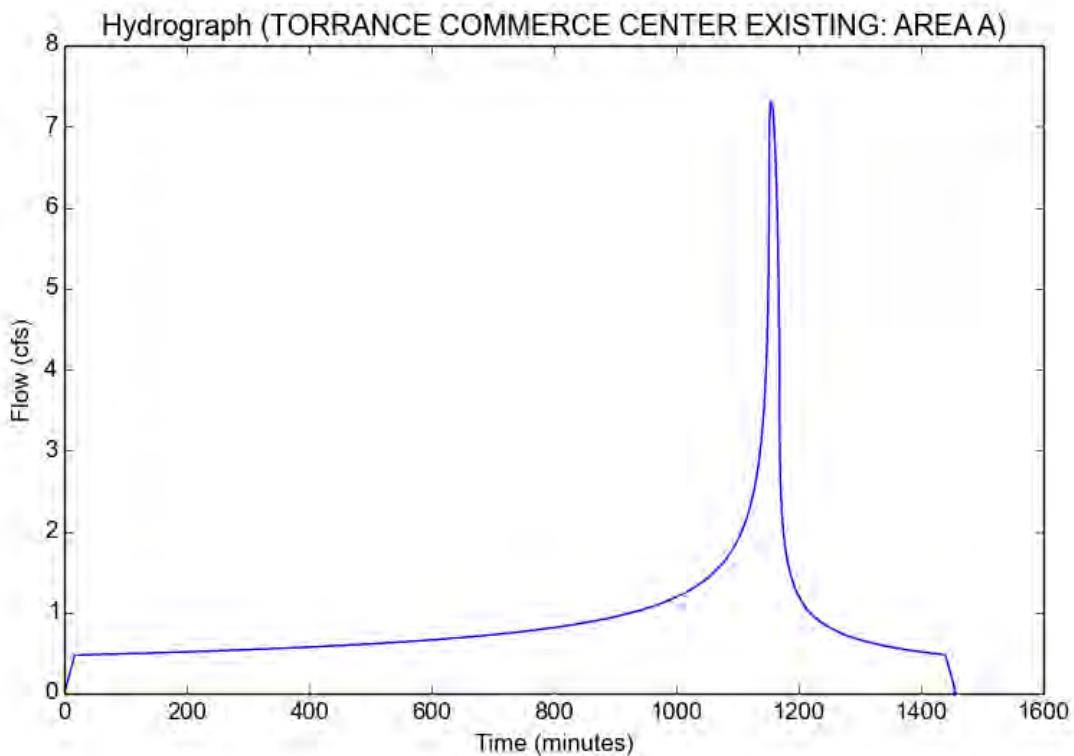
File location: G:/projdata/2089 W. 205th Street, Torrance/DWG/Hydrology/TORRANCE COMMERCE CENTER EXISTING - AREA A Q10 2023 11 27.pdf
Version: HydroCalc 1.0.3

Input Parameters

Project Name	TORRANCE COMMERCE CENTER EXISTING
Subarea ID	AREA A
Area (ac)	6.26
Flow Path Length (ft)	1053.0
Flow Path Slope (vft/hft)	0.005
50-yr Rainfall Depth (in)	5.87
Percent Impervious	0.89
Soil Type	10
Design Storm Frequency	10-yr
Fire Factor	0
LID	False

Output Results

Modeled (10-yr) Rainfall Depth (in)	4.1912
Peak Intensity (in/hr)	1.4068
Undeveloped Runoff Coefficient (Cu)	0.2665
Developed Runoff Coefficient (Cd)	0.8303
Time of Concentration (min)	17.0
Clear Peak Flow Rate (cfs)	7.3124
Burned Peak Flow Rate (cfs)	7.3124
24-Hr Clear Runoff Volume (ac-ft)	1.7635
24-Hr Clear Runoff Volume (cu-ft)	76818.2811





SECTION 4.2

HYDROLOGY

FREQUENCY:	50-YEAR PROPOSED
ISOHYET:	5.87"
SOIL CLASS:	010

Peak Flow Hydrologic Analysis

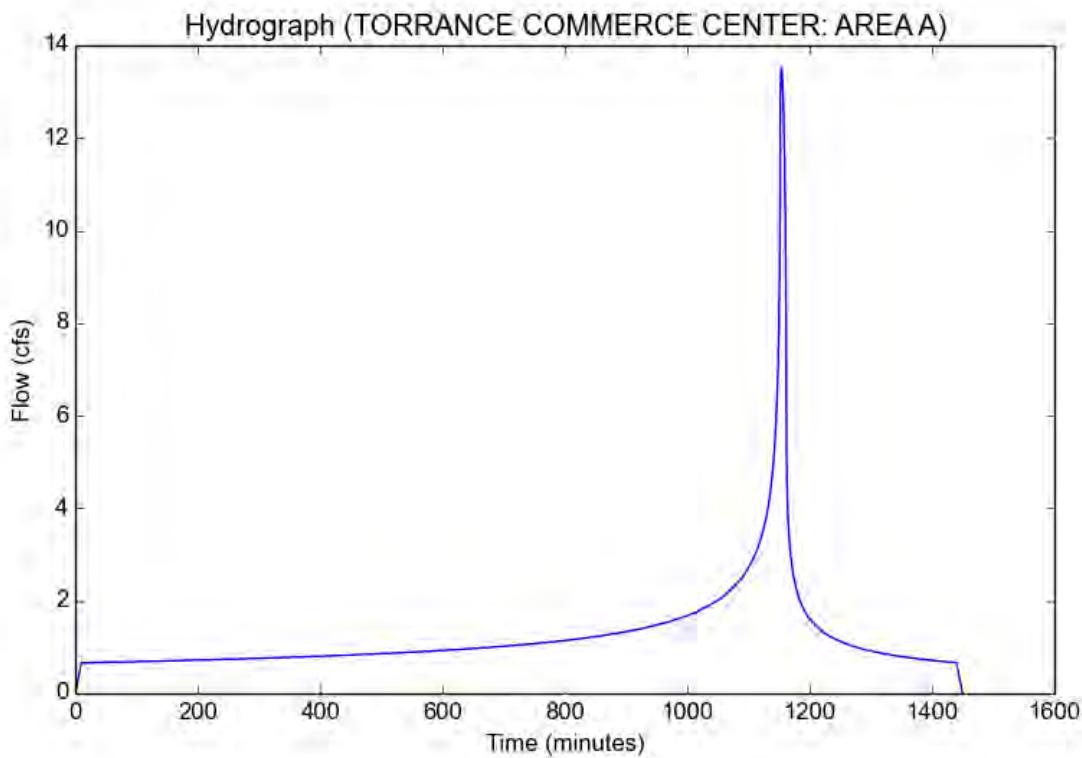
File location: G:/projdata/2089 W. 205th Street, Torrance/DWG/Hydrology/TORRANCE COMMERCE CENTER - AREA A Q50 PROPOSED 2023 11 27.
Version: HydroCalc 1.0.3

Input Parameters

Project Name	TORRANCE COMMERCE CENTER
Subarea ID	AREA A
Area (ac)	6.26
Flow Path Length (ft)	895.0
Flow Path Slope (vft/hft)	0.01
50-yr Rainfall Depth (in)	5.87
Percent Impervious	0.89
Soil Type	10
Design Storm Frequency	50-yr
Fire Factor	0
LID	False

Output Results

Modeled (50-yr) Rainfall Depth (in)	5.87
Peak Intensity (in/hr)	2.5285
Undeveloped Runoff Coefficient (Cu)	0.4867
Developed Runoff Coefficient (Cd)	0.8545
Time of Concentration (min)	10.0
Clear Peak Flow Rate (cfs)	13.5258
Burned Peak Flow Rate (cfs)	13.5258
24-Hr Clear Runoff Volume (ac-ft)	2.4755
24-Hr Clear Runoff Volume (cu-ft)	107831.1018



TORRANCE COMMERCE CENTER

PROPOSED MAIN AREA COMPUTATIONS*

Project	Area	Area (acres)	%imp	Freq.	Soil Type	Length (ft.)	Slope (ft./ft.)	Isohyet (in.)	Tc (min.)	Flow rate (cfs)	Fire Factor	Volume (cu.ft.)
TCC	A TOTAL	6.26	0.89	50-Year	10	895	0.010	5.87	10	13.52	0	107,831

PROPOSED SUB-AREA COMPUTATIONS**

Project	Subarea	Area (acres)	%imp	Freq.	Soil Type	Length (ft.)	Slope (ft./ft.)	Isohyet (in.)	Tc (min.)	Flow rate (cfs)	Fire Factor	Volume (cu.ft.)
TCC	A-1	0.61	0.83	50-Year	10	408	0.005	5.87	10	1.32	0	10,507
TCC	A-2	0.67	1.00	50-Year	10	137	0.020	5.87	10	1.45	0	11,541
TCC	A-3	0.59	0.84	50-Year	10	236	0.010	5.87	10	1.27	0	10,163
TCC	A-4	0.61	1.00	50-Year	10	137	0.020	5.87	10	1.32	0	10,507
TCC	A-5	0.70	1.00	50-Year	10	137	0.020	5.87	10	1.51	0	12,058
TCC	A-6	0.50	0.91	50-Year	10	128	0.010	5.87	10	1.08	0	8,613
TCC	A-7	0.65	1.00	50-Year	10	137	0.020	5.87	10	1.40	0	11,197
TCC	A-8	1.93	0.90	50-Year	10	530	0.010	5.87	10	4.17	0	33,245
TCC	A TOTAL	6.26								13.52		107,831

*Total area calculation performed using the Los Angeles County HydroCalc Calculator v0.3.0-beta.

**Subareas were apportioned using Section 7.4 of the Los Angeles County Hydrology Manual.

$$Q_{\text{subarea}} = A_{\text{subarea}} / A_{\text{total}} \times Q_{\text{total}}$$



SECTION 5.1

HYDROGRAPH PROPOSED Q50 – EXISTING Q10

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
0.0	0.00	0	8.4	0.55	140	16.8	0.66	468	25.2	0.66	802	33.6	0.67	1138	42.0	0.67	1474	50.4	0.67	1812	58.8	0.67	2151	67.2	0.68	2491	75.6	0.68	2833
0.2	0.01	0	8.6	0.57	147	17.0	0.66	476	25.4	0.66	810	33.8	0.67	1146	42.2	0.67	1482	50.6	0.67	1820	59.0	0.67	2159	67.4	0.68	2499	75.8	0.68	2841
0.4	0.03	0	8.8	0.58	153	17.2	0.66	484	25.6	0.66	818	34.0	0.67	1154	42.4	0.67	1490	50.8	0.67	1828	59.2	0.67	2167	67.6	0.68	2508	76.0	0.68	2849
0.6	0.04	1	9.0	0.59	160	17.4	0.66	492	25.8	0.66	826	34.2	0.67	1162	42.6	0.67	1498	51.0	0.67	1836	59.4	0.67	2175	67.8	0.68	2516	76.2	0.68	2857
0.8	0.05	1	9.2	0.61	168	17.6	0.66	500	26.0	0.66	834	34.4	0.67	1170	42.8	0.67	1506	51.2	0.67	1844	59.6	0.67	2183	68.0	0.68	2524	76.4	0.68	2865
1.0	0.07	2	9.4	0.62	175	17.8	0.66	508	26.2	0.66	842	34.6	0.67	1178	43.0	0.67	1514	51.4	0.67	1852	59.8	0.67	2192	68.2	0.68	2532	76.6	0.68	2874
1.2	0.08	3	9.6	0.63	183	18.0	0.66	516	26.4	0.66	850	34.8	0.67	1186	43.2	0.67	1522	51.6	0.67	1860	60.0	0.67	2200	68.4	0.68	2540	76.8	0.68	2882
1.4	0.09	4	9.8	0.65	190	18.2	0.66	523	26.6	0.66	858	35.0	0.67	1194	43.4	0.67	1530	51.8	0.67	1868	60.2	0.67	2208	68.6	0.68	2548	77.0	0.68	2890
1.6	0.11	5	10.0	0.66	198	18.4	0.66	531	26.8	0.66	866	35.2	0.67	1202	43.6	0.67	1538	52.0	0.67	1877	60.4	0.67	2216	68.8	0.68	2556	77.2	0.68	2898
1.8	0.12	6	10.2	0.66	206	18.6	0.66	539	27.0	0.66	874	35.4	0.67	1210	43.8	0.67	1547	52.2	0.67	1885	60.6	0.67	2224	69.0	0.68	2564	77.4	0.68	2906
2.0	0.13	8	10.4	0.66	214	18.8	0.66	547	27.2	0.66	882	35.6	0.67	1218	44.0	0.67	1555	52.4	0.67	1893	60.8	0.67	2232	69.2	0.68	2573	77.6	0.68	2914
2.2	0.15	10	10.6	0.66	222	19.0	0.66	555	27.4	0.67	890	35.8	0.67	1226	44.2	0.67	1563	52.6	0.67	1901	61.0	0.67	2240	69.4	0.68	2581	77.8	0.68	2922
2.4	0.16	11	10.8	0.66	230	19.2	0.66	563	27.6	0.67	898	36.0	0.67	1234	44.4	0.67	1571	52.8	0.67	1909	61.2	0.67	2248	69.6	0.68	2589	78.0	0.68	2931
2.6	0.17	13	11.0	0.66	238	19.4	0.66	571	27.8	0.67	906	36.2	0.67	1242	44.6	0.67	1579	53.0	0.67	1917	61.4	0.67	2256	69.8	0.68	2597	78.2	0.68	2939
2.8	0.18	16	11.2	0.66	246	19.6	0.66	579	28.0	0.67	914	36.4	0.67	1250	44.8	0.67	1587	53.2	0.67	1925	61.6	0.67	2264	70.0	0.68	2605	78.4	0.68	2947
3.0	0.20	18	11.4	0.66	254	19.8	0.66	587	28.2	0.67	922	36.6	0.67	1258	45.0	0.67	1595	53.4	0.67	1933	61.8	0.67	2272	70.2	0.68	2613	78.6	0.68	2955
3.2	0.21	20	11.6	0.66	261	20.0	0.66	595	28.4	0.67	930	36.8	0.67	1266	45.2	0.67	1603	53.6	0.67	1941	62.0	0.67	2281	70.4	0.68	2621	78.8	0.68	2963
3.4	0.22	23	11.8	0.66	269	20.2	0.66	603	28.6	0.67	938	37.0	0.67	1274	45.4	0.67	1611	53.8	0.67	1949	62.2	0.67	2289	70.6	0.68	2629	79.0	0.68	2971
3.6	0.24	26	12.0	0.66	277	20.4	0.66	611	28.8	0.67	946	37.2	0.67	1282	45.6	0.67	1619	54.0	0.67	1957	62.4	0.67	2297	70.8	0.68	2638	79.2	0.68	2980
3.8	0.25	29	12.2	0.66	285	20.6	0.66	619	29.0	0.67	954	37.4	0.67	1290	45.8	0.67	1627	54.2	0.67	1965	62.6	0.68	2305	71.0	0.68	2646	79.4	0.68	2988
4.0	0.26	32	12.4	0.66	293	20.8	0.66	627	29.2	0.67	962	37.6	0.67	1298	46.0	0.67	1635	54.4	0.67	1973	62.8	0.68	2313	71.2	0.68	2654	79.6	0.68	2996
4.2	0.28	35	12.6	0.66	301	21.0	0.66	635	29.4	0.67	970	37.8	0.67	1306	46.2	0.67	1643	54.6	0.67	1981	63.0	0.68	2321	71.4	0.68	2662	79.8	0.68	3004
4.4	0.29	38	12.8	0.66	309	21.2	0.66	643	29.6	0.67	978	38.0	0.67	1314	46.4	0.67	1651	54.8	0.67	1989	63.2	0.68	2329	71.6	0.68	2670	80.0	0.68	3012
4.6	0.30	42	13.0	0.66	317	21.4	0.66	651	29.8	0.67	986	38.2	0.67	1322	46.6	0.67	1659	55.0	0.67	1998	63.4	0.68	2337	71.8	0.68	2678	80.2	0.68	3020
4.8	0.32	46	13.2	0.66	325	21.6	0.66	659	30.0	0.67	994	38.4	0.67	1330	46.8	0.67	1667	55.2	0.67	2006	63.6	0.68	2345	72.0	0.68	2686	80.4	0.68	3029
5.0	0.33	50	13.4	0.66	333	21.8	0.66	667	30.2	0.67	1002	38.6	0.67	1338	47.0	0.67	1675	55.4	0.67	2014	63.8	0.68	2353	72.2	0.68	2694	80.6	0.68	3037
5.2	0.34	54	13.6	0.66	341	22.0	0.66	675	30.4	0.67	1010	38.8	0.67	1346	47.2	0.67	1683	55.6	0.67	2022	64.0	0.68	2362	72.4	0.68	2703	80.8	0.68	3045
5.4	0.36	58	13.8	0.66	349	22.2	0.66	683	30.6	0.67	1018	39.0	0.67	1354	47.4	0.67	1691	55.8	0.67	2030	64.2	0.68	2370	72.6	0.68	2711	81.0	0.68	3053
5.6	0.37	62	14.0	0.66	357	22.4	0.66	691	30.8	0.67	1026	39.2	0.67	1362	47.6	0.67	1699	56.0	0.67	2038	64.4	0.68	2378	72.8	0.68	2719	81.2	0.68	3061
5.8	0.38	67	14.2	0.66	365	22.6	0.66	699	31.0	0.67	1034	39.4	0.67	1370	47.8	0.67	1707	56.2	0.67	2046	64.6	0.68	2386	73.0	0.68	2727	81.4	0.68	3069
6.0	0.40	71	14.4	0.66	373	22.8	0.66	707	31.2	0.67	1042	39.6	0.67	1378	48.0	0.67	1715	56.4	0.67	2054	64.8	0.68	2394	73.2	0.68	2735	81.6	0.68	3078
6.2	0.41	76	14.6	0.66	380	23.0	0.66	714	31.4	0.67	1050	39.8	0.67	1386	48.2	0.67	1723	56.6	0.67	2062	65.0	0.68	2402	73.4	0.68	2743	81.8	0.68	3086
6.4	0.42	81	14.8	0.66	388	23.2	0.66	722	31.6	0.67	1058	40.0	0.67	1394	48.4	0.67	1732	56.8	0.67	2070	65.2	0.68	2410	73.6	0.68	2751	82.0	0.68	3094
6.6	0.44	86	15.0	0.66	396	23.4	0.66	730	31.8	0.67	1066	40.2	0.67	1402	48.6	0.67	1740	57.0	0.67	2078	65.4	0.68	2418	73.8	0.68	2760	82.2	0.68	3102
6.8	0.45	92	15.2	0.66	404	23.6	0.66	738	32.0	0.67	1074	40.4	0.67	1410	48.8	0.67	1748	57.2	0.67	2086	65.6	0.68	2426	74.0	0.68	2768	82.4	0.68	3110
7.0	0.46	97	15.4	0.66	412	23.8	0.66	746	32.2	0.67	1082	40.6	0.67	1418	49.0	0.67	1756	57.4	0.67	2095	65.8	0.68	2435	74.2	0.68	2776	82.6	0.68	3118
7.2	0.48	103	15.6	0.66	420	24.0	0.66	754	32.4	0.67	1090	40.8	0.67	1426	49.2	0.67	1764	57.6	0.67	2103	66.0	0.68	2443	74.4	0.68	2784	82.8	0.68	3127
7.4	0.49	108	15.8	0.66	428	24.2	0.66	762	32.6	0.67	1098	41.0	0.67	1434	49.4	0.67	1772	57.8	0.67	2111	66.2	0.68	2451	74.6	0.68	2792	83.0	0.68	3135
7.6	0.50	114	16.0	0.66	436	24.4	0.66	770	32.8	0.67	1106	41.2	0.67	1442	49.6	0.67	1780	58.0	0.67	2119	66.4	0.68	2459	74.8	0.68	2800	83.2	0.68	3143
7.8	0.52	121	16.2	0.66	444	24.6	0.66	778	33.0	0.67	1114	41.4	0.67	1450	49.8	0.67	1788	58.2	0.67	2127	66.6	0.68</							

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.
84.0	0.68	3176	92.4	0.68	3520	100.8	0.69	3865	109.2	0.69	4211	117.6	0.69	4559	126.0	0.69	4909	134.4	0.70	5259	142.8	0.70	5611	151.2	0.70	5964	159.6	0.71	6319
84.2	0.68	3184	92.6	0.68	3528	101.0	0.69	3873	109.4	0.69	4220	117.8	0.69	4568	126.2	0.69	4917	134.6	0.70	5267	143.0	0.70	5619	151.4	0.70	5973	159.8	0.71	6327
84.4	0.68	3192	92.8	0.68	3536	101.2	0.69	3881	109.6	0.69	4228	118.0	0.69	4576	126.4	0.69	4925	134.8	0.70	5276	143.2	0.70	5628	151.6	0.70	5981	160.0	0.71	6336
84.6	0.68	3200	93.0	0.68	3544	101.4	0.69	3890	109.8	0.69	4236	118.2	0.69	4584	126.6	0.69	4934	135.0	0.70	5284	143.4	0.70	5636	151.8	0.70	5990	160.2	0.71	6344
84.8	0.68	3208	93.2	0.68	3552	101.6	0.69	3898	110.0	0.69	4245	118.4	0.69	4593	126.8	0.69	4942	135.2	0.70	5293	143.6	0.70	5645	152.0	0.70	5998	160.4	0.71	6353
85.0	0.68	3216	93.4	0.68	3561	101.8	0.69	3906	110.2	0.69	4253	118.6	0.69	4601	127.0	0.69	4950	135.4	0.70	5301	143.8	0.70	5653	152.2	0.70	6006	160.6	0.71	6361
85.2	0.68	3225	93.6	0.68	3569	102.0	0.69	3914	110.4	0.69	4261	118.8	0.69	4609	127.2	0.69	4959	135.6	0.70	5309	144.0	0.70	5661	152.4	0.70	6015	160.8	0.71	6370
85.4	0.68	3233	93.8	0.68	3577	102.2	0.69	3923	110.6	0.69	4269	119.0	0.69	4617	127.4	0.69	4967	135.8	0.70	5318	144.2	0.70	5670	152.6	0.70	6023	161.0	0.71	6378
85.6	0.68	3241	94.0	0.68	3585	102.4	0.69	3931	110.8	0.69	4278	119.2	0.69	4626	127.6	0.69	4975	136.0	0.70	5326	144.4	0.70	5678	152.8	0.70	6032	161.2	0.71	6387
85.8	0.68	3249	94.2	0.68	3593	102.6	0.69	3939	111.0	0.69	4286	119.4	0.69	4634	127.8	0.69	4984	136.2	0.70	5334	144.6	0.70	5687	153.0	0.70	6040	161.4	0.71	6395
86.0	0.68	3257	94.4	0.68	3602	102.8	0.69	3947	111.2	0.69	4294	119.6	0.69	4642	128.0	0.69	4992	136.4	0.70	5343	144.8	0.70	5695	153.2	0.70	6049	161.6	0.71	6404
86.2	0.68	3266	94.6	0.68	3610	103.0	0.69	3956	111.4	0.69	4302	119.8	0.69	4651	128.2	0.69	5000	136.6	0.70	5351	145.0	0.70	5703	153.4	0.70	6057	161.8	0.71	6412
86.4	0.68	3274	94.8	0.68	3618	103.2	0.69	3964	111.6	0.69	4311	120.0	0.69	4659	128.4	0.69	5009	136.8	0.70	5360	145.2	0.70	5712	153.6	0.70	6065	162.0	0.71	6421
86.6	0.68	3282	95.0	0.68	3626	103.4	0.69	3972	111.8	0.69	4319	120.2	0.69	4667	128.6	0.70	5017	137.0	0.70	5368	145.4	0.70	5720	153.8	0.70	6074	162.2	0.71	6429
86.8	0.68	3290	95.2	0.68	3635	103.6	0.69	3980	112.0	0.69	4327	120.4	0.69	4676	128.8	0.70	5025	137.2	0.70	5376	145.6	0.70	5729	154.0	0.70	6082	162.4	0.71	6437
87.0	0.68	3298	95.4	0.68	3643	103.8	0.69	3989	112.2	0.69	4336	120.6	0.69	4684	129.0	0.70	5034	137.4	0.70	5385	145.8	0.70	5737	154.2	0.70	6091	162.6	0.71	6446
87.2	0.68	3306	95.6	0.68	3651	104.0	0.69	3997	112.4	0.69	4344	120.8	0.69	4692	129.2	0.70	5042	137.6	0.70	5393	146.0	0.70	5745	154.4	0.70	6099	162.8	0.71	6454
87.4	0.68	3315	95.8	0.68	3659	104.2	0.69	4005	112.6	0.69	4352	121.0	0.69	4701	129.4	0.70	5050	137.8	0.70	5401	146.2	0.70	5754	154.6	0.70	6108	163.0	0.71	6463
87.6	0.68	3323	96.0	0.68	3667	104.4	0.69	4013	112.8	0.69	4360	121.2	0.69	4709	129.6	0.70	5059	138.0	0.70	5410	146.4	0.70	5762	154.8	0.70	6116	163.2	0.71	6471
87.8	0.68	3331	96.2	0.68	3676	104.6	0.69	4022	113.0	0.69	4369	121.4	0.69	4717	129.8	0.70	5067	138.2	0.70	5418	146.6	0.70	5771	155.0	0.70	6125	163.4	0.71	6480
88.0	0.68	3339	96.4	0.69	3684	104.8	0.69	4030	113.2	0.69	4377	121.6	0.69	4725	130.0	0.70	5075	138.4	0.70	5427	146.8	0.70	5779	155.2	0.70	6133	163.6	0.71	6488
88.2	0.68	3347	96.6	0.69	3692	105.0	0.69	4038	113.4	0.69	4385	121.8	0.69	4734	130.2	0.70	5084	138.6	0.70	5435	147.0	0.70	5787	155.4	0.70	6141	163.8	0.71	6497
88.4	0.68	3356	96.8	0.69	3700	105.2	0.69	4046	113.6	0.69	4394	122.0	0.69	4742	130.4	0.70	5092	138.8	0.70	5443	147.2	0.70	5796	155.6	0.70	6150	164.0	0.71	6505
88.6	0.68	3364	97.0	0.69	3709	105.4	0.69	4055	113.8	0.69	4402	122.2	0.69	4750	130.6	0.70	5100	139.0	0.70	5452	147.4	0.70	5804	155.8	0.70	6158	164.2	0.71	6514
88.8	0.68	3372	97.2	0.69	3717	105.6	0.69	4063	114.0	0.69	4410	122.4	0.69	4759	130.8	0.70	5109	139.2	0.70	5460	147.6	0.70	5813	156.0	0.70	6167	164.4	0.71	6522
89.0	0.68	3380	97.4	0.69	3725	105.8	0.69	4071	114.2	0.69	4418	122.6	0.69	4767	131.0	0.70	5117	139.4	0.70	5468	147.8	0.70	5821	156.2	0.70	6175	164.6	0.71	6531
89.2	0.68	3388	97.6	0.69	3733	106.0	0.69	4079	114.4	0.69	4427	122.8	0.69	4775	131.2	0.70	5125	139.6	0.70	5477	148.0	0.70	5830	156.4	0.70	6184	164.8	0.71	6539
89.4	0.68	3397	97.8	0.69	3741	106.2	0.69	4088	114.6	0.69	4435	123.0	0.69	4784	131.4	0.70	5134	139.8	0.70	5485	148.2	0.70	5838	156.6	0.70	6192	165.0	0.71	6548
89.6	0.68	3405	98.0	0.69	3750	106.4	0.69	4096	114.8	0.69	4443	123.2	0.69	4792	131.6	0.70	5142	140.0	0.70	5494	148.4	0.70	5846	156.8	0.70	6201	165.2	0.71	6556
89.8	0.68	3413	98.2	0.69	3758	106.6	0.69	4104	115.0	0.69	4452	123.4	0.69	4800	131.8	0.70	5150	140.2	0.70	5502	148.6	0.70	5855	157.0	0.70	6209	165.4	0.71	6565
90.0	0.68	3421	98.4	0.69	3766	106.8	0.69	4112	115.2	0.69	4460	123.6	0.69	4809	132.0	0.70	5159	140.4	0.70	5510	148.8	0.70	5863	157.2	0.70	6217	165.6	0.71	6573
90.2	0.68	3429	98.6	0.69	3774	107.0	0.69	4121	115.4	0.69	4468	123.8	0.69	4817	132.2	0.70	5167	140.6	0.70	5519	149.0	0.70	5872	157.4	0.70	6226	165.8	0.71	6582
90.4	0.68	3438	98.8	0.69	3783	107.2	0.69	4129	115.6	0.69	4476	124.0	0.69	4825	132.4	0.70	5176	140.8	0.70	5527	149.2	0.70	5880	157.6	0.70	6234	166.0	0.71	6590
90.6	0.68	3446	99.0	0.69	3791	107.4	0.69	4137	115.8	0.69	4485	124.2	0.69	4834	132.6	0.70	5184	141.0	0.70	5535	149.4	0.70	5888	157.8	0.70	6243	166.2	0.71	6599
90.8	0.68	3454	99.2	0.69	3799	107.6	0.69	4145	116.0	0.69	4493	124.4	0.69	4842	132.8	0.70	5192	141.2	0.70	5544	149.6	0.70	5897	158.0	0.70	6251	166.4	0.71	6607
91.0	0.68	3462	99.4	0.69	3807	107.8	0.69	4154	116.2	0.69	4501	124.6	0.69	4850	133.0	0.70	5201	141.4	0.70	5552	149.8	0.70	5905	158.2	0.70	6260	166.6	0.71	6616
91.2	0.68	3470	99.6	0.69	3815	108.0	0.69	4162	116.4	0.69	4510	124.8	0.69	4859	133.2	0.70	5209	141.6	0.70	5561	150.0	0.70	5914	158.4	0.70	6268	166.8	0.71	6624
91.4	0.68	3479	99.8	0.69	3824	108.2	0.69	4170	116.6	0.69	4518	125.0	0.69	4867	133.4	0.70	5217	1											

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.
168.0	0.71	6675	176.4	0.71	7033	184.8	0.71	7391	193.2	0.72	7752	201.6	0.72	8114	210.0	0.72	8477	218.4	0.73	8842	226.8	0.73	9208	235.2	0.73	9576	243.6	0.73	9946
168.2	0.71	6684	176.6	0.71	7041	185.0	0.71	7400	193.4	0.72	7760	201.8	0.72	8122	210.2	0.72	8486	218.6	0.73	8851	227.0	0.73	9217	235.4	0.73	9585	243.8	0.73	9955
168.4	0.71	6692	176.8	0.71	7050	185.2	0.71	7409	193.6	0.72	7769	202.0	0.72	8131	210.4	0.72	8494	218.8	0.73	8859	227.2	0.73	9226	235.6	0.73	9594	244.0	0.74	9964
168.6	0.71	6701	177.0	0.71	7058	185.4	0.71	7417	193.8	0.72	7778	202.2	0.72	8140	210.6	0.72	8503	219.0	0.73	8868	227.4	0.73	9235	235.8	0.73	9603	244.2	0.74	9973
168.8	0.71	6709	177.2	0.71	7067	185.6	0.71	7426	194.0	0.72	7786	202.4	0.72	8148	210.8	0.72	8512	219.2	0.73	8877	227.6	0.73	9243	236.0	0.73	9612	244.4	0.74	9981
169.0	0.71	6718	177.4	0.71	7075	185.8	0.71	7434	194.2	0.72	7795	202.6	0.72	8157	211.0	0.72	8521	219.4	0.73	8886	227.8	0.73	9252	236.2	0.73	9620	244.6	0.74	9990
169.2	0.71	6726	177.6	0.71	7084	186.0	0.71	7443	194.4	0.72	7803	202.8	0.72	8166	211.2	0.72	8529	219.6	0.73	8894	228.0	0.73	9261	236.4	0.73	9629	244.8	0.74	9999
169.4	0.71	6735	177.8	0.71	7092	186.2	0.71	7451	194.6	0.72	7812	203.0	0.72	8174	211.4	0.72	8538	219.8	0.73	8903	228.2	0.73	9270	236.6	0.73	9638	245.0	0.74	10008
169.6	0.71	6743	178.0	0.71	7101	186.4	0.71	7460	194.8	0.72	7821	203.2	0.72	8183	211.6	0.72	8547	220.0	0.73	8912	228.4	0.73	9278	236.8	0.73	9647	245.2	0.74	10017
169.8	0.71	6752	178.2	0.71	7109	186.6	0.71	7469	195.0	0.72	7829	203.4	0.72	8192	211.8	0.72	8555	220.2	0.73	8920	228.6	0.73	9287	237.0	0.73	9656	245.4	0.74	10025
170.0	0.71	6760	178.4	0.71	7118	186.8	0.71	7477	195.2	0.72	7838	203.6	0.72	8200	212.0	0.72	8564	220.4	0.73	8929	228.8	0.73	9296	237.2	0.73	9664	245.6	0.74	10034
170.2	0.71	6769	178.6	0.71	7126	187.0	0.71	7486	195.4	0.72	7847	203.8	0.72	8209	212.2	0.72	8573	220.6	0.73	8938	229.0	0.73	9305	237.4	0.73	9673	245.8	0.74	10043
170.4	0.71	6777	178.8	0.71	7135	187.2	0.71	7494	195.6	0.72	7855	204.0	0.72	8217	212.4	0.72	8581	220.8	0.73	8947	229.2	0.73	9313	237.6	0.73	9682	246.0	0.74	10052
170.6	0.71	6786	179.0	0.71	7143	187.4	0.71	7503	195.8	0.72	7864	204.2	0.72	8226	212.6	0.72	8590	221.0	0.73	8955	229.4	0.73	9322	237.8	0.73	9691	246.2	0.74	10061
170.8	0.71	6794	179.2	0.71	7152	187.6	0.71	7511	196.0	0.72	7872	204.4	0.72	8235	212.8	0.72	8599	221.2	0.73	8964	229.6	0.73	9331	238.0	0.73	9699	246.4	0.74	10070
171.0	0.71	6803	179.4	0.71	7161	187.8	0.71	7520	196.2	0.72	7881	204.6	0.72	8243	213.0	0.72	8607	221.4	0.73	8973	229.8	0.73	9340	238.2	0.73	9708	246.6	0.74	10078
171.2	0.71	6811	179.6	0.71	7169	188.0	0.71	7529	196.4	0.72	7890	204.8	0.72	8252	213.2	0.72	8616	221.6	0.73	8981	230.0	0.73	9348	238.4	0.73	9717	246.8	0.74	10087
171.4	0.71	6820	179.8	0.71	7178	188.2	0.71	7537	196.6	0.72	7898	205.0	0.72	8261	213.4	0.72	8625	221.8	0.73	8990	230.2	0.73	9357	238.6	0.73	9726	247.0	0.74	10096
171.6	0.71	6828	180.0	0.71	7186	188.4	0.71	7546	196.8	0.72	7907	205.2	0.72	8269	213.6	0.72	8633	222.0	0.73	8999	230.4	0.73	9366	238.8	0.73	9735	247.2	0.74	10105
171.8	0.71	6837	180.2	0.71	7195	188.6	0.71	7554	197.0	0.72	7915	205.4	0.72	8278	213.8	0.72	8642	222.2	0.73	9008	230.6	0.73	9375	239.0	0.73	9743	247.4	0.74	10114
172.0	0.71	6845	180.4	0.71	7203	188.8	0.72	7563	197.2	0.72	7924	205.6	0.72	8287	214.0	0.72	8651	222.4	0.73	9016	230.8	0.73	9384	239.2	0.73	9752	247.6	0.74	10123
172.2	0.71	6854	180.6	0.71	7212	189.0	0.72	7571	197.4	0.72	7933	205.8	0.72	8295	214.2	0.72	8659	222.6	0.73	9025	231.0	0.73	9392	239.4	0.73	9761	247.8	0.74	10131
172.4	0.71	6862	180.8	0.71	7220	189.2	0.72	7580	197.6	0.72	7941	206.0	0.72	8304	214.4	0.72	8668	222.8	0.73	9034	231.2	0.73	9401	239.6	0.73	9770	248.0	0.74	10140
172.6	0.71	6871	181.0	0.71	7229	189.4	0.72	7589	197.8	0.72	7950	206.2	0.72	8313	214.6	0.72	8677	223.0	0.73	9043	231.4	0.73	9410	239.8	0.73	9779	248.2	0.74	10149
172.8	0.71	6879	181.2	0.71	7237	189.6	0.72	7597	198.0	0.72	7958	206.4	0.72	8321	214.8	0.72	8685	223.2	0.73	9051	231.6	0.73	9419	240.0	0.73	9787	248.4	0.74	10158
173.0	0.71	6888	181.4	0.71	7246	189.8	0.72	7606	198.2	0.72	7967	206.6	0.72	8330	215.0	0.72	8694	223.4	0.73	9060	231.8	0.73	9427	240.2	0.73	9796	248.6	0.74	10167
173.2	0.71	6896	181.6	0.71	7255	190.0	0.72	7614	198.4	0.72	7976	206.8	0.72	8339	215.2	0.72	8703	223.6	0.73	9069	232.0	0.73	9436	240.4	0.73	9805	248.8	0.74	10176
173.4	0.71	6905	181.8	0.71	7263	190.2	0.72	7623	198.6	0.72	7984	207.0	0.72	8347	215.4	0.72	8712	223.8	0.73	9077	232.2	0.73	9445	240.6	0.73	9814	249.0	0.74	10184
173.6	0.71	6913	182.0	0.71	7272	190.4	0.72	7632	198.8	0.72	7993	207.2	0.72	8356	215.6	0.72	8720	224.0	0.73	9086	232.4	0.73	9454	240.8	0.73	9823	249.2	0.74	10193
173.8	0.71	6922	182.2	0.71	7280	190.6	0.72	7640	199.0	0.72	8002	207.4	0.72	8365	215.8	0.72	8729	224.2	0.73	9095	232.6	0.73	9462	241.0	0.73	9831	249.4	0.74	10202
174.0	0.71	6930	182.4	0.71	7289	190.8	0.72	7649	199.2	0.72	8010	207.6	0.72	8373	216.0	0.72	8738	224.4	0.73	9104	232.8	0.73	9471	241.2	0.73	9840	249.6	0.74	10211
174.2	0.71	6939	182.6	0.71	7297	191.0	0.72	7657	199.4	0.72	8019	207.8	0.72	8382	216.2	0.72	8746	224.6	0.73	9112	233.0	0.73	9480	241.4	0.73	9849	249.8	0.74	10220
174.4	0.71	6947	182.8	0.71	7306	191.2	0.72	7666	199.6	0.72	8027	208.0	0.72	8390	216.4	0.72	8755	224.8	0.73	9121	233.2	0.73	9489	241.6	0.73	9858	250.0	0.74	10229
174.6	0.71	6956	183.0	0.71	7314	191.4	0.72	7675	199.8	0.72	8036	208.2	0.72	8399	216.6	0.72	8764	225.0	0.73	9130	233.4	0.73	9497	241.8	0.73	9867	250.2	0.74	10238
174.8	0.71	6964	183.2	0.71	7323	191.6	0.72	7683	200.0	0.72	8045	208.4	0.72	8408	216.8	0.72	8772	225.2	0.73	9139	233.6	0.73	9506	242.0	0.73	9876	250.4	0.74	10246
175.0	0.71	6973	183.4	0.71	7332	191.8	0.72	7692	200.2	0.72	8053	208.6	0.72	8416	217.0	0.73	8781	225.4	0.73	9147	233.8	0.73	9515	242.2	0.73	9884	250.6	0.74	10255
175.2	0.71	6981	183.6	0.71	7340	192.0	0.72	7700	200.4	0.72	8062	208.8	0.72	8425	217.2	0.73	8790	225.6	0.73	9156	234.0	0.73	9524	242.4	0.73	9893	250.8	0.74	10264
175.4	0.71	6990	183.8	0.71	7349	192.2</td																							

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	
252.0	0.74	10317	260.4	0.74	10690	268.8	0.74	11064	277.2	0.75	11441	285.6	0.75	11818	294.0	0.75	12198	302.4	0.76	12579	310.8	0.76	12962	319.2	0.77	13347	327.6	0.77	13734
252.2	0.74	10326	260.6	0.74	10699	269.0	0.74	11073	277.4	0.75	11450	285.8	0.75	11827	294.2	0.75	12207	302.6	0.76	12588	311.0	0.76	12971	319.4	0.77	13356	327.8	0.77	13743
252.4	0.74	10335	260.8	0.74	10708	269.2	0.74	11082	277.6	0.75	11459	286.0	0.75	11836	294.4	0.75	12216	302.8	0.76	12597	311.2	0.76	12980	319.6	0.77	13365	328.0	0.77	13752
252.6	0.74	10344	261.0	0.74	10717	269.4	0.74	11091	277.8	0.75	11468	286.2	0.75	11845	294.6	0.75	12225	303.0	0.76	12606	311.4	0.76	12990	319.8	0.77	13375	328.2	0.77	13761
252.8	0.74	10353	261.2	0.74	10726	269.6	0.74	11100	278.0	0.75	11476	286.4	0.75	11854	294.8	0.76	12234	303.2	0.76	12616	311.6	0.76	12999	320.0	0.77	13384	328.4	0.77	13771
253.0	0.74	10362	261.4	0.74	10735	269.8	0.74	11109	278.2	0.75	11485	286.6	0.75	11863	295.0	0.76	12243	303.4	0.76	12625	311.8	0.76	13008	320.2	0.77	13393	328.6	0.77	13780
253.2	0.74	10370	261.6	0.74	10743	270.0	0.75	11118	278.4	0.75	11494	286.8	0.75	11872	295.2	0.76	12252	303.6	0.76	12634	312.0	0.76	13017	320.4	0.77	13402	328.8	0.77	13789
253.4	0.74	10379	261.8	0.74	10752	270.2	0.75	11127	278.6	0.75	11503	287.0	0.75	11882	295.4	0.76	12261	303.8	0.76	12643	312.2	0.76	13026	320.6	0.77	13411	329.0	0.77	13798
253.6	0.74	10388	262.0	0.74	10761	270.4	0.75	11136	278.8	0.75	11512	287.2	0.75	11891	295.6	0.76	12270	304.0	0.76	12652	312.4	0.76	13035	320.8	0.77	13420	329.2	0.77	13807
253.8	0.74	10397	262.2	0.74	10770	270.6	0.75	11145	279.0	0.75	11521	287.4	0.75	11900	295.8	0.76	12279	304.2	0.76	12661	312.6	0.76	13044	321.0	0.77	13430	329.4	0.77	13817
254.0	0.74	10406	262.4	0.74	10779	270.8	0.75	11154	279.2	0.75	11530	287.6	0.75	11909	296.0	0.76	12289	304.4	0.76	12670	312.8	0.76	13054	321.2	0.77	13439	329.6	0.77	13826
254.2	0.74	10415	262.6	0.74	10788	271.0	0.75	11163	279.4	0.75	11539	287.8	0.75	11918	296.2	0.76	12298	304.6	0.76	12679	313.0	0.76	13063	321.4	0.77	13448	329.8	0.77	13835
254.4	0.74	10424	262.8	0.74	10797	271.2	0.75	11172	279.6	0.75	11548	288.0	0.75	11927	296.4	0.76	12307	304.8	0.76	12688	313.2	0.76	13072	321.6	0.77	13457	330.0	0.77	13844
254.6	0.74	10432	263.0	0.74	10806	271.4	0.75	11181	279.8	0.75	11557	288.2	0.75	11936	296.6	0.76	12316	305.0	0.76	12698	313.4	0.76	13081	321.8	0.77	13466	330.2	0.77	13854
254.8	0.74	10441	263.2	0.74	10815	271.6	0.75	11190	280.0	0.75	11566	288.4	0.75	11945	296.8	0.76	12325	305.2	0.76	12707	313.6	0.76	13090	322.0	0.77	13476	330.4	0.77	13863
255.0	0.74	10450	263.4	0.74	10824	271.8	0.75	11199	280.2	0.75	11575	288.6	0.75	11954	297.0	0.76	12334	305.4	0.76	12716	313.8	0.76	13099	322.2	0.77	13485	330.6	0.77	13872
255.2	0.74	10459	263.6	0.74	10832	272.0	0.75	11208	280.4	0.75	11584	288.8	0.75	11963	297.2	0.76	12343	305.6	0.76	12725	314.0	0.76	13109	322.4	0.77	13494	330.8	0.77	13881
255.4	0.74	10468	263.8	0.74	10841	272.2	0.75	11216	280.6	0.75	11593	289.0	0.75	11972	297.4	0.76	12352	305.8	0.76	12734	314.2	0.76	13118	322.6	0.77	13503	331.0	0.77	13891
255.6	0.74	10477	264.0	0.74	10850	272.4	0.75	11225	280.8	0.75	11602	289.2	0.75	11981	297.6	0.76	12361	306.0	0.76	12743	314.4	0.76	13127	322.8	0.77	13512	331.2	0.77	13900
255.8	0.74	10486	264.2	0.74	10859	272.6	0.75	11234	281.0	0.75	11611	289.4	0.75	11990	297.8	0.76	12370	306.2	0.76	12752	314.6	0.76	13136	323.0	0.77	13522	331.4	0.77	13909
256.0	0.74	10495	264.4	0.74	10868	272.8	0.75	11243	281.2	0.75	11620	289.6	0.75	11999	298.0	0.76	12379	306.4	0.76	12761	314.8	0.76	13145	323.2	0.77	13531	331.6	0.77	13918
256.2	0.74	10503	264.6	0.74	10877	273.0	0.75	11252	281.4	0.75	11629	289.8	0.75	12008	298.2	0.76	12388	306.6	0.76	12770	315.0	0.76	13154	323.4	0.77	13540	331.8	0.77	13928
256.4	0.74	10512	264.8	0.74	10886	273.2	0.75	11261	281.6	0.75	11638	290.0	0.75	12017	298.4	0.76	12397	306.8	0.76	12780	315.2	0.76	13164	323.6	0.77	13549	332.0	0.77	13937
256.6	0.74	10521	265.0	0.74	10895	273.4	0.75	11270	281.8	0.75	11647	290.2	0.75	12026	298.6	0.76	12406	307.0	0.76	12789	315.4	0.76	13173	323.8	0.77	13558	332.2	0.77	13946
256.8	0.74	10530	265.2	0.74	10904	273.6	0.75	11279	282.0	0.75	11656	290.4	0.75	12035	298.8	0.76	12416	307.2	0.76	12798	315.6	0.76	13182	324.0	0.77	13568	332.4	0.77	13955
257.0	0.74	10539	265.4	0.74	10913	273.8	0.75	11288	282.2	0.75	11665	290.6	0.75	12044	299.0	0.76	12425	307.4	0.76	12807	315.8	0.76	13191	324.2	0.77	13577	332.6	0.77	13965
257.2	0.74	10548	265.6	0.74	10922	274.0	0.75	11297	282.4	0.75	11674	290.8	0.75	12053	299.2	0.76	12434	307.6	0.76	12816	316.0	0.76	13200	324.4	0.77	13586	332.8	0.77	13974
257.4	0.74	10557	265.8	0.74	10931	274.2	0.75	11306	282.6	0.75	11683	291.0	0.75	12062	299.4	0.76	12443	307.8	0.76	12825	316.2	0.76	13209	324.6	0.77	13595	333.0	0.77	13983
257.6	0.74	10566	266.0	0.74	10939	274.4	0.75	11315	282.8	0.75	11692	291.2	0.75	12071	299.6	0.76	12452	308.0	0.76	12834	316.4	0.76	13219	324.8	0.77	13605	333.2	0.77	13992
257.8	0.74	10574	266.2	0.74	10948	274.6	0.75	11324	283.0	0.75	11701	291.4	0.75	12080	299.8	0.76	12461	308.2	0.76	12843	316.6	0.76	13228	325.0	0.77	13614	333.4	0.77	14002
258.0	0.74	10583	266.4	0.74	10957	274.8	0.75	11333	283.2	0.75	11710	291.6	0.75	12089	300.0	0.76	12470	308.4	0.76	12853	316.8	0.76	13237	325.2	0.77	13623	333.6	0.77	14011
258.2	0.74	10592	266.6	0.74	10966	275.0	0.75	11342	283.4	0.75	11719	291.8	0.75	12098	300.2	0.76	12479	308.6	0.76	12862	317.0	0.76	13246	325.4	0.77	13632	333.8	0.77	14020
258.4	0.74	10601	266.8	0.74	10975	275.2	0.75	11351	283.6	0.75	11728	292.0	0.75	12107	300.4	0.76	12488	308.8	0.76	12871	317.2	0.76	13255	325.6	0.77	13641	334.0	0.77	14029
258.6	0.74	10610	267.0	0.74	10984	275.4	0.75	11360	283.8	0.75	11737	292.2	0.75	12116	300.6	0.76	12497	309.0	0.76	12880	317.4	0.76	13264	325.8	0.77	13651	334.2	0.77	14039
258.8	0.74	10619	267.2	0.74	10993	275.6	0.75	11369	284.0	0.75	11746	292.4	0.75	12125	300.8	0.76	12506	309.2	0.76	12889	317.6	0.76	13274	326.0	0.77	13660	334.4	0.77	14048
259.0	0.74	10628	267.4	0.74	11002	275.8	0.75	11378	284.2	0.75	11755	292.6	0.75	12135	301.0	0.76	12515	309.4	0.76	12898	317.8	0.76	13283	326.2	0.77	13669	334.6	0.77	14057
259.2	0.74	10637</td																											

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.																											
336.0	0.77	14122	344.4	0.78	14512	352.8	0.78	14905	361.2	0.78	15299	369.6	0.79	15695	378.0	0.79	16093	386.4	0.80	16493	394.8	0.80	16896	403.2	0.80	17300	411.6	0.81	17706
336.2	0.77	14131	344.6	0.78	14522	353.0	0.78	14914	361.4	0.78	15308	369.8	0.79	15704	378.2	0.79	16103	386.6	0.80	16503	395.0	0.80	16905	403.4	0.80	17309	411.8	0.81	17716
336.4	0.77	14141	344.8	0.78	14531	353.2	0.78	14923	361.6	0.78	15318	370.0	0.79	15714	378.4	0.79	16112	386.8	0.80	16512	395.2	0.80	16915	403.6	0.80	17319	412.0	0.81	17726
336.6	0.77	14150	345.0	0.78	14540	353.4	0.78	14933	361.8	0.78	15327	370.2	0.79	15723	378.6	0.79	16122	387.0	0.80	16522	395.4	0.80	16924	403.8	0.80	17329	412.2	0.81	17735
336.8	0.77	14159	345.2	0.78	14550	353.6	0.78	14942	362.0	0.78	15337	370.4	0.79	15733	378.8	0.79	16131	387.2	0.80	16532	395.6	0.80	16934	404.0	0.80	17338	412.4	0.81	17745
337.0	0.77	14168	345.4	0.78	14559	353.8	0.78	14952	362.2	0.78	15346	370.6	0.79	15742	379.0	0.79	16141	387.4	0.80	16541	395.8	0.80	16944	404.2	0.80	17348	412.6	0.81	17755
337.2	0.77	14178	345.6	0.78	14568	354.0	0.78	14961	362.4	0.78	15355	370.8	0.79	15752	379.2	0.79	16150	387.6	0.80	16551	396.0	0.80	16953	404.4	0.80	17358	412.8	0.81	17764
337.4	0.77	14187	345.8	0.78	14578	354.2	0.78	14970	362.6	0.78	15365	371.0	0.79	15761	379.4	0.79	16160	387.8	0.80	16560	396.2	0.80	16963	404.6	0.80	17367	413.0	0.81	17774
337.6	0.77	14196	346.0	0.78	14587	354.4	0.78	14980	362.8	0.78	15374	371.2	0.79	15771	379.6	0.79	16169	388.0	0.80	16570	396.4	0.80	16972	404.8	0.81	17377	413.2	0.81	17784
337.8	0.77	14206	346.2	0.78	14596	354.6	0.78	14989	363.0	0.78	15384	371.4	0.79	15780	379.8	0.79	16179	388.2	0.80	16579	396.6	0.80	16982	405.0	0.81	17387	413.4	0.81	17794
338.0	0.77	14215	346.4	0.78	14606	354.8	0.78	14998	363.2	0.78	15393	371.6	0.79	15790	380.0	0.79	16188	388.4	0.80	16589	396.8	0.80	16992	405.2	0.81	17396	413.6	0.81	17803
338.2	0.77	14224	346.6	0.78	14615	355.0	0.78	15008	363.4	0.79	15402	371.8	0.79	15799	380.2	0.79	16198	388.6	0.80	16598	397.0	0.80	17001	405.4	0.81	17406	413.8	0.81	17813
338.4	0.77	14233	346.8	0.78	14624	355.2	0.78	15017	363.6	0.79	15412	372.0	0.79	15809	380.4	0.79	16207	388.8	0.80	16608	397.2	0.80	17011	405.6	0.81	17416	414.0	0.81	17823
338.6	0.77	14243	347.0	0.78	14634	355.4	0.78	15027	363.8	0.79	15421	372.2	0.79	15818	380.6	0.79	16217	389.0	0.80	16618	397.4	0.80	17020	405.8	0.81	17425	414.2	0.81	17832
338.8	0.77	14252	347.2	0.78	14643	355.6	0.78	15036	364.0	0.79	15431	372.4	0.79	15828	380.8	0.79	16226	389.2	0.80	16627	397.6	0.80	17030	406.0	0.81	17435	414.4	0.81	17842
339.0	0.77	14261	347.4	0.78	14652	355.8	0.78	15045	364.2	0.79	15440	372.6	0.79	15837	381.0	0.79	16236	389.4	0.80	16637	397.8	0.80	17040	406.2	0.81	17445	414.6	0.81	17852
339.2	0.77	14271	347.6	0.78	14662	356.0	0.78	15055	364.4	0.79	15450	372.8	0.79	15846	381.2	0.79	16245	389.6	0.80	16646	398.0	0.80	17049	406.4	0.81	17454	414.8	0.81	17862
339.4	0.77	14280	347.8	0.78	14671	356.2	0.78	15064	364.6	0.79	15459	373.0	0.79	15856	381.4	0.79	16255	389.8	0.80	16656	398.2	0.80	17059	406.6	0.81	17464	415.0	0.81	17871
339.6	0.77	14289	348.0	0.78	14680	356.4	0.78	15073	364.8	0.79	15468	373.2	0.79	15865	381.6	0.79	16264	390.0	0.80	16665	398.4	0.80	17069	406.8	0.81	17474	415.2	0.81	17881
339.8	0.77	14298	348.2	0.78	14690	356.6	0.78	15083	365.0	0.79	15478	373.4	0.79	15875	381.8	0.79	16274	390.2	0.80	16675	398.6	0.80	17078	407.0	0.81	17483	415.4	0.81	17891
340.0	0.77	14308	348.4	0.78	14699	356.8	0.78	15092	365.2	0.79	15487	373.6	0.79	15884	382.0	0.79	16283	390.4	0.80	16685	398.8	0.80	17088	407.2	0.81	17493	415.6	0.81	17901
340.2	0.77	14317	348.6	0.78	14708	357.0	0.78	15102	365.4	0.79	15497	373.8	0.79	15894	382.2	0.79	16293	390.6	0.80	16694	399.0	0.80	17097	407.4	0.81	17503	415.8	0.81	17910
340.4	0.77	14326	348.8	0.78	14718	357.2	0.78	15111	365.6	0.79	15506	374.0	0.79	15903	382.4	0.79	16303	390.8	0.80	16704	399.2	0.80	17107	407.6	0.81	17512	416.0	0.81	17920
340.6	0.77	14336	349.0	0.78	14727	357.4	0.78	15120	365.8	0.79	15516	374.2	0.79	15913	382.6	0.79	16312	391.0	0.80	16713	399.4	0.80	17117	407.8	0.81	17522	416.2	0.81	17930
340.8	0.77	14345	349.2	0.78	14736	357.6	0.78	15130	366.0	0.79	15525	374.4	0.79	15922	382.8	0.79	16322	391.2	0.80	16723	399.6	0.80	17126	408.0	0.81	17532	416.4	0.81	17939
341.0	0.77	14354	349.4	0.78	14746	357.8	0.78	15139	366.2	0.79	15534	374.6	0.79	15932	383.0	0.79	16331	391.4	0.80	16732	399.8	0.80	17136	408.2	0.81	17541	416.6	0.81	17949
341.2	0.77	14364	349.6	0.78	14755	358.0	0.78	15148	366.4	0.79	15544	374.8	0.79	15941	383.2	0.79	16341	391.6	0.80	16742	400.0	0.80	17146	408.4	0.81	17551	416.8	0.81	17959
341.4	0.78	14373	349.8	0.78	14764	358.2	0.78	15158	366.6	0.79	15553	375.0	0.79	15951	383.4	0.79	16350	391.8	0.80	16752	400.2	0.80	17155	408.6	0.81	17561	417.0	0.81	17969
341.6	0.78	14382	350.0	0.78	14774	358.4	0.78	15167	366.8	0.79	15563	375.2	0.79	15960	383.6	0.79	16360	392.0	0.80	16761	400.4	0.80	17165	408.8	0.81	17571	417.2	0.81	17978
341.8	0.78	14391	350.2	0.78	14783	358.6	0.78	15177	367.0	0.79	15572	375.4	0.79	15970	383.8	0.79	16369	392.2	0.80	16771	400.6	0.80	17174	409.0	0.81	17580	417.4	0.81	17988
342.0	0.78	14401	350.4	0.78	14792	358.8	0.78	15186	367.2	0.79	15582	375.6	0.79	15979	384.0	0.79	16379	392.4	0.80	16780	400.8	0.80	17184	409.2	0.81	17590	417.6	0.81	17998
342.2	0.78	14410	350.6	0.78	14802	359.0	0.78	15195	367.4	0.79	15591	375.8	0.79	15989	384.2	0.79	16388	392.6	0.80	16790	401.0	0.80	17194	409.4	0.81	17600	417.8	0.81	18008
342.4	0.78	14419	350.8	0.78	14811	359.2	0.78	15205	367.6	0.79	15601	376.0	0.79	15998	384.4	0.80	16398	392.8	0.80	16800	401.2	0.80	17203	409.6	0.81	17609	418.0	0.81	18017
342.6	0.78	14429	351.0	0.78	14820	359.4	0.78	15214	367.8	0.79	15610	376.2	0.79	16008	384.6	0.80	16407	393.0	0.80	16809	401.4	0.80	17213	409.8	0.81	17619	418.2	0.81	18027
342.8	0.78	14438	351.2	0.78	14830	359.6	0.78	15224	368.0	0.79	15619	376.4	0.79	16017	384.8	0.80	16417	393.2	0.80	16819	401.6	0.80	17223	410.0	0.81	17629	418.4	0.81	18037
343.0	0.78	14447	351.4	0.78	14839	359.8	0.78	15233	368.2	0.79	15629	376.6	0.79	16027	385.0	0.80</td													

HYDROGRAPH AND HYETOGRAPH DATA -Torrance Commerce Center (50-Year, 24-Hour)

Time min.	Q cfs	Vol. cu.ft.																											
420.0	0.81	18115	428.4	0.82	18526	436.8	0.82	18939	445.2	0.83	19354	453.6	0.83	19772	462.0	0.84	20191	470.4	0.84	20614	478.8	0.85	21039	487.2	0.85	21466	495.6	0.86	21896
420.2	0.81	18125	428.6	0.82	18535	437.0	0.82	18948	445.4	0.83	19364	453.8	0.83	19781	462.2	0.84	20201	470.6	0.84	20624	479.0	0.85	21049	487.4	0.85	21476	495.8	0.86	21906
420.4	0.81	18134	428.8	0.82	18545	437.2	0.82	18958	445.6	0.83	19374	454.0	0.83	19791	462.4	0.84	20212	470.8	0.84	20634	479.2	0.85	21059	487.6	0.85	21486	496.0	0.86	21916
420.6	0.81	18144	429.0	0.82	18555	437.4	0.82	18968	445.8	0.83	19384	454.2	0.83	19801	462.6	0.84	20222	471.0	0.84	20644	479.4	0.85	21069	487.8	0.85	21496	496.2	0.86	21926
420.8	0.81	18154	429.2	0.82	18565	437.6	0.82	18978	446.0	0.83	19394	454.4	0.83	19811	462.8	0.84	20232	471.2	0.84	20654	479.6	0.85	21079	488.0	0.85	21507	496.4	0.86	21937
421.0	0.81	18164	429.4	0.82	18575	437.8	0.82	18988	446.2	0.83	19404	454.6	0.83	19821	463.0	0.84	20242	471.4	0.84	20664	479.8	0.85	21089	488.2	0.85	21517	496.6	0.86	21947
421.2	0.81	18173	429.6	0.82	18584	438.0	0.82	18998	446.4	0.83	19413	454.8	0.83	19831	463.2	0.84	20252	471.6	0.84	20674	480.0	0.85	21099	488.4	0.85	21527	496.8	0.86	21957
421.4	0.81	18183	429.8	0.82	18594	438.2	0.82	19008	446.6	0.83	19423	455.0	0.83	19841	463.4	0.84	20262	471.8	0.84	20684	480.2	0.85	21110	488.6	0.85	21537	497.0	0.86	21967
421.6	0.81	18193	430.0	0.82	18604	438.4	0.82	19018	446.8	0.83	19433	455.2	0.83	19851	463.6	0.84	20272	472.0	0.84	20694	480.4	0.85	21120	488.8	0.85	21547	497.2	0.86	21978
421.8	0.81	18203	430.2	0.82	18614	438.6	0.82	19027	447.0	0.83	19443	455.4	0.83	19861	463.8	0.84	20282	472.2	0.84	20705	480.6	0.85	21130	489.0	0.85	21558	497.4	0.86	21988
422.0	0.81	18212	430.4	0.82	18624	438.8	0.82	19037	447.2	0.83	19453	455.6	0.83	19871	464.0	0.84	20292	472.4	0.84	20715	480.8	0.85	21140	489.2	0.85	21568	497.6	0.86	21998
422.2	0.81	18222	430.6	0.82	18634	439.0	0.82	19047	447.4	0.83	19463	455.8	0.83	19881	464.2	0.84	20302	472.6	0.84	20725	481.0	0.85	21150	489.4	0.85	21578	497.8	0.86	22009
422.4	0.81	18232	430.8	0.82	18643	439.2	0.82	19057	447.6	0.83	19473	456.0	0.83	19891	464.4	0.84	20312	472.8	0.84	20735	481.2	0.85	21160	489.6	0.85	21588	498.0	0.86	22019
422.6	0.81	18242	431.0	0.82	18653	439.4	0.82	19067	447.8	0.83	19483	456.2	0.83	19901	464.6	0.84	20322	473.0	0.84	20745	481.4	0.85	21171	489.8	0.85	21599	498.2	0.86	22029
422.8	0.81	18252	431.2	0.82	18663	439.6	0.82	19077	448.0	0.83	19493	456.4	0.83	19911	464.8	0.84	20332	473.2	0.84	20755	481.6	0.85	21181	490.0	0.85	21609	498.4	0.86	22039
423.0	0.81	18261	431.4	0.82	18673	439.8	0.82	19087	448.2	0.83	19503	456.6	0.83	19921	465.0	0.84	20342	473.4	0.84	20765	481.8	0.85	21191	490.2	0.85	21619	498.6	0.86	22050
423.2	0.81	18271	431.6	0.82	18683	440.0	0.82	19097	448.4	0.83	19513	456.8	0.83	19931	465.2	0.84	20352	473.6	0.84	20775	482.0	0.85	21201	490.4	0.85	21629	498.8	0.86	22060
423.4	0.81	18281	431.8	0.82	18693	440.2	0.82	19106	448.6	0.83	19523	457.0	0.83	19941	465.4	0.84	20362	473.8	0.84	20785	482.2	0.85	21211	490.6	0.85	21639	499.0	0.86	22070
423.6	0.81	18291	432.0	0.82	18702	440.4	0.82	19116	448.8	0.83	19533	457.2	0.83	19951	465.6	0.84	20372	474.0	0.84	20796	482.4	0.85	21221	490.8	0.85	21650	499.2	0.86	22081
423.8	0.81	18300	432.2	0.82	18712	440.6	0.82	19126	449.0	0.83	19543	457.4	0.83	19961	465.8	0.84	20382	474.2	0.84	20806	482.6	0.85	21232	491.0	0.85	21660	499.4	0.86	22091
424.0	0.81	18310	432.4	0.82	18722	440.8	0.82	19136	449.2	0.83	19552	457.6	0.83	19971	466.0	0.84	20392	474.4	0.84	20816	482.8	0.85	21242	491.2	0.85	21670	499.6	0.86	22101
424.2	0.82	18320	432.6	0.82	18732	441.0	0.82	19146	449.4	0.83	19562	457.8	0.83	19981	466.2	0.84	20402	474.6	0.84	20826	483.0	0.85	21252	491.4	0.85	21680	499.8	0.86	22111
424.4	0.82	18330	432.8	0.82	18742	441.2	0.82	19156	449.6	0.83	19572	458.0	0.83	19991	466.4	0.84	20412	474.8	0.84	20836	483.2	0.85	21262	491.6	0.85	21691	500.0	0.86	22122
424.6	0.82	18340	433.0	0.82	18752	441.4	0.82	19166	449.8	0.83	19582	458.2	0.83	20001	466.6	0.84	20422	475.0	0.84	20846	483.4	0.85	21272	491.8	0.85	21701	500.2	0.86	22132
424.8	0.82	18349	433.2	0.82	18761	441.6	0.82	19176	450.0	0.83	19592	458.4	0.83	20011	466.8	0.84	20432	475.2	0.84	20856	483.6	0.85	21282	492.0	0.85	21711	500.4	0.86	22142
425.0	0.82	18359	433.4	0.82	18771	441.8	0.82	19186	450.2	0.83	19602	458.6	0.83	20021	467.0	0.84	20443	475.4	0.84	20866	483.8	0.85	21293	492.2	0.85	21721	500.6	0.86	22153
425.2	0.82	18369	433.6	0.82	18781	442.0	0.82	19195	450.4	0.83	19612	458.8	0.83	20031	467.2	0.84	20453	475.6	0.84	20876	484.0	0.85	21303	492.4	0.85	21732	500.8	0.86	22163
425.4	0.82	18379	433.8	0.82	18791	442.2	0.82	19205	450.6	0.83	19622	459.0	0.83	20041	467.4	0.84	20463	475.8	0.84	20887	484.2	0.85	21313	492.6	0.85	21742	501.0	0.86	22173
425.6	0.82	18388	434.0	0.82	18801	442.4	0.82	19215	450.8	0.83	19632	459.2	0.83	20051	467.6	0.84	20473	476.0	0.84	20897	484.4	0.85	21323	492.8	0.85	21752	501.2	0.86	22184
425.8	0.82	18398	434.2	0.82	18811	442.6	0.82	19225	451.0	0.83	19642	459.4	0.83	20061	467.8	0.84	20483	476.2	0.84	20907	484.6	0.85	21333	493.0	0.85	21762	501.4	0.86	22194
426.0	0.82	18408	434.4	0.82	18820	442.8	0.82	19235	451.2	0.83	19652	459.6	0.83	20071	468.0	0.84	20493	476.4	0.84	20917	484.8	0.85	21343	493.2	0.85	21773	501.6	0.86	22204
426.2	0.82	18418	434.6	0.82	18830	443.0	0.83	19245	451.4	0.83	19662	459.8	0.83	20081	468.2	0.84	20503	476.6	0.84	20927	485.0	0.85	21354	493.4	0.85	21783	501.8	0.86	22214
426.4	0.82	18428	434.8	0.82	18840	443.2	0.83	19255	451.6	0.83	19672	460.0	0.83	20091	468.4	0.84	20513	476.8	0.84	20937	485.2	0.85	21364	493.6	0.85	21793	502.0	0.86	22225
426.6	0.82	18437	435.0	0.82	18850	443.4	0.83	19265	451.8	0.83	19682	460.2	0.83	20101	468.6	0.84	20523	477.0	0.84	20947	485.4	0.85	21374	493.8	0.85	21803	502.2	0.86	22235
426.8	0.82	18447	435.2	0.82	18860	443.6	0.83	19275	452.0	0.83	19692	460.4	0.83	20111	468.8	0.84	20533	477.2	0.84	20957	485.6	0.85	21384	494.0	0.85	21814	502.4	0.86	22245
427.0	0.82	18457	435.4	0.82	18870	443.8	0.83	19285	452.2	0.83	19702	460.6	0.83	20121	469.0	0.84	20543	477.4	0.84	20968	485.8	0.85	21394	494.2	0.85	21824	502.6</td		

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.
504.0	0.86	22328	512.4	0.87	22763	520.8	0.87	23201	529.2	0.88	23641	537.6	0.88	24084	546.0	0.89	24530	554.4	0.89	24979	562.8	0.90	25431	571.2	0.91	25886	579.6	0.91	26343
504.2	0.86	22338	512.6	0.87	22773	521.0	0.87	23211	529.4	0.88	23651	537.8	0.88	24095	546.2	0.89	24541	554.6	0.89	24990	563.0	0.90	25442	571.4	0.91	25896	579.8	0.91	26354
504.4	0.86	22349	512.8	0.87	22784	521.2	0.87	23221	529.6	0.88	23662	538.0	0.88	24105	546.4	0.89	24551	554.8	0.89	25000	563.2	0.90	25452	571.6	0.91	25907	580.0	0.91	26365
504.6	0.86	22359	513.0	0.87	22794	521.4	0.87	23232	529.8	0.88	23672	538.2	0.88	24116	546.6	0.89	24562	555.0	0.89	25011	563.4	0.90	25463	571.8	0.91	25918	580.2	0.91	26376
504.8	0.86	22369	513.2	0.87	22804	521.6	0.87	23242	530.0	0.88	23683	538.4	0.88	24126	546.8	0.89	24573	555.2	0.89	25022	563.6	0.90	25474	572.0	0.91	25929	580.4	0.91	26387
505.0	0.86	22380	513.4	0.87	22815	521.8	0.87	23253	530.2	0.88	23694	538.6	0.88	24137	547.0	0.89	24583	555.4	0.89	25033	563.8	0.90	25485	572.2	0.91	25940	580.6	0.91	26398
505.2	0.86	22390	513.6	0.87	22825	522.0	0.87	23263	530.4	0.88	23704	538.8	0.88	24148	547.2	0.89	24594	555.6	0.89	25043	564.0	0.90	25496	572.4	0.91	25951	580.8	0.91	26409
505.4	0.86	22400	513.8	0.87	22836	522.2	0.87	23274	530.6	0.88	23715	539.0	0.88	24158	547.4	0.89	24605	555.8	0.89	25054	564.2	0.90	25506	572.6	0.91	25962	581.0	0.91	26420
505.6	0.86	22411	514.0	0.87	22846	522.4	0.87	23284	530.8	0.88	23725	539.2	0.88	24169	547.6	0.89	24615	556.0	0.89	25065	564.4	0.90	25517	572.8	0.91	25973	581.2	0.91	26431
505.8	0.86	22421	514.2	0.87	22856	522.6	0.87	23295	531.0	0.88	23736	539.4	0.88	24179	547.8	0.89	24626	556.2	0.89	25075	564.6	0.90	25528	573.0	0.91	25983	581.4	0.91	26442
506.0	0.86	22431	514.4	0.87	22867	522.8	0.87	23305	531.2	0.88	23746	539.6	0.88	24190	548.0	0.89	24637	556.4	0.89	25086	564.8	0.90	25539	573.2	0.91	25994	581.6	0.91	26453
506.2	0.86	22442	514.6	0.87	22877	523.0	0.87	23316	531.4	0.88	23757	539.8	0.88	24201	548.2	0.89	24647	556.6	0.90	25097	565.0	0.90	25550	573.4	0.91	26005	581.8	0.91	26464
506.4	0.86	22452	514.8	0.87	22888	523.2	0.87	23326	531.6	0.88	23767	540.0	0.88	24211	548.4	0.89	24658	556.8	0.90	25108	565.2	0.90	25560	573.6	0.91	26016	582.0	0.91	26475
506.6	0.86	22462	515.0	0.87	22898	523.4	0.87	23337	531.8	0.88	23778	540.2	0.88	24222	548.6	0.89	24669	557.0	0.90	25118	565.4	0.90	25571	573.8	0.91	26027	582.2	0.91	26486
506.8	0.86	22473	515.2	0.87	22908	523.6	0.87	23347	532.0	0.88	23788	540.4	0.88	24232	548.8	0.89	24679	557.2	0.90	25129	565.6	0.90	25582	574.0	0.91	26038	582.4	0.91	26497
507.0	0.86	22483	515.4	0.87	22919	523.8	0.87	23357	532.2	0.88	23799	540.6	0.88	24243	549.0	0.89	24690	557.4	0.90	25140	565.8	0.90	25593	574.2	0.91	26049	582.6	0.91	26508
507.2	0.86	22493	515.6	0.87	22929	524.0	0.87	23368	532.4	0.88	23809	540.8	0.88	24254	549.2	0.89	24701	557.6	0.90	25151	566.0	0.90	25604	574.4	0.91	26060	582.8	0.91	26519
507.4	0.86	22504	515.8	0.87	22940	524.2	0.87	23378	532.6	0.88	23820	541.0	0.88	24264	549.4	0.89	24711	557.8	0.90	25161	566.2	0.90	25614	574.6	0.91	26071	583.0	0.91	26530
507.6	0.86	22514	516.0	0.87	22950	524.4	0.87	23389	532.8	0.88	23830	541.2	0.88	24275	549.6	0.89	24722	558.0	0.90	25172	566.4	0.90	25625	574.8	0.91	26081	583.2	0.91	26541
507.8	0.86	22524	516.2	0.87	22961	524.6	0.87	23399	533.0	0.88	23841	541.4	0.88	24285	549.8	0.89	24733	558.2	0.90	25183	566.6	0.90	25636	575.0	0.91	26092	583.4	0.91	26552
508.0	0.86	22535	516.4	0.87	22971	524.8	0.87	23410	533.2	0.88	23852	541.6	0.88	24296	550.0	0.89	24743	558.4	0.90	25194	566.8	0.90	25647	575.2	0.91	26103	583.6	0.91	26563
508.2	0.86	22545	516.6	0.87	22981	525.0	0.87	23420	533.4	0.88	23862	541.8	0.88	24307	550.2	0.89	24754	558.6	0.90	25204	567.0	0.90	25658	575.4	0.91	26114	583.8	0.91	26574
508.4	0.86	22555	516.8	0.87	22992	525.2	0.87	23431	533.6	0.88	23873	542.0	0.89	24317	550.4	0.89	24765	558.8	0.90	25215	567.2	0.90	25669	575.6	0.91	26125	584.0	0.91	26585
508.6	0.86	22566	517.0	0.87	23002	525.4	0.87	23441	533.8	0.88	23883	542.2	0.89	24328	550.6	0.89	24775	559.0	0.90	25226	567.4	0.90	25679	575.8	0.91	26136	584.2	0.92	26596
508.8	0.86	22576	517.2	0.87	23013	525.6	0.87	23452	534.0	0.88	23894	542.4	0.89	24339	550.8	0.89	24786	559.2	0.90	25237	567.6	0.90	25690	576.0	0.91	26147	584.4	0.92	26607
509.0	0.86	22587	517.4	0.87	23023	525.8	0.87	23462	534.2	0.88	23904	542.6	0.89	24349	551.0	0.89	24797	559.4	0.90	25247	567.8	0.90	25701	576.2	0.91	26158	584.6	0.92	26618
509.2	0.86	22597	517.6	0.87	23033	526.0	0.87	23473	534.4	0.88	23915	542.8	0.89	24360	551.2	0.89	24808	559.6	0.90	25258	568.0	0.90	25712	576.4	0.91	26169	584.8	0.92	26628
509.4	0.86	22607	517.8	0.87	23044	526.2	0.87	23483	534.6	0.88	23925	543.0	0.89	24370	551.4	0.89	24818	559.8	0.90	25269	568.2	0.90	25723	576.6	0.91	26180	585.0	0.92	26639
509.6	0.86	22618	518.0	0.87	23054	526.4	0.87	23494	534.8	0.88	23936	543.2	0.89	24381	551.6	0.89	24829	560.0	0.90	25280	568.4	0.90	25734	576.8	0.91	26190	585.2	0.92	26650
509.8	0.86	22628	518.2	0.87	23065	526.6	0.87	23504	535.0	0.88	23947	543.4	0.89	24392	551.8	0.89	24840	560.2	0.90	25291	568.6	0.90	25744	577.0	0.91	26201	585.4	0.92	26661
510.0	0.86	22638	518.4	0.87	23075	526.8	0.87	23515	535.2	0.88	23957	543.6	0.89	24402	552.0	0.89	24850	560.4	0.90	25301	568.8	0.90	25755	577.2	0.91	26212	585.6	0.92	26672
510.2	0.86	22649	518.6	0.87	23086	527.0	0.88	23525	535.4	0.88	23968	543.8	0.89	24413	552.2	0.89	24861	560.6	0.90	25312	569.0	0.90	25766	577.4	0.91	26223	585.8	0.92	26683
510.4	0.86	22659	518.8	0.87	23096	527.2	0.88	23536	535.6	0.88	23978	544.0	0.89	24424	552.4	0.89	24872	560.8	0.90	25323	569.2	0.90	25777	577.6	0.91	26234	586.0	0.92	26694
510.6	0.86	22669	519.0	0.87	23107	527.4	0.88	23546	535.8	0.88	23989	544.2	0.89	24434	552.6	0.89	24882	561.0	0.90	25334	569.4	0.90	25788	577.8	0.91	26245	586.2	0.92	26705
510.8	0.86	22680	519.2	0.87	23117	527.6	0.88	23557	536.0	0.88	23999	544.4	0.89	24445	552.8	0.89	24893	561.2	0.90	25344	569.6	0.90	25799	578.0	0.91	26256	586.4	0.92	26716
511.0	0.86	22690	519.4	0.87	23127	527.8	0.88	23567	536.2	0.88	24010	544.6	0.89	24455	553.0	0.89	24904	561.4	0.90	25355	569.8	0.90	25810	578.2	0.91	26267	586.6	0.92	26727
511.2	0.86																												

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.																											
588.0	0.92	26805	596.4	0.92	27269	604.8	0.93	27736	613.2	0.94	28207	621.6	0.94	28682	630.0	0.95	29159	638.4	0.96	29641	646.8	0.97	30126	655.2	0.97	30615	663.6	0.98	31108
588.2	0.92	26816	596.6	0.92	27280	605.0	0.93	27747	613.4	0.94	28218	621.8	0.94	28693	630.2	0.95	29171	638.6	0.96	29652	647.0	0.97	30138	655.4	0.97	30626	663.8	0.98	31119
588.4	0.92	26827	596.8	0.92	27291	605.2	0.93	27759	613.6	0.94	28230	622.0	0.94	28704	630.4	0.95	29182	638.8	0.96	29664	647.2	0.97	30149	655.6	0.97	30638	664.0	0.98	31131
588.6	0.92	26838	597.0	0.92	27302	605.4	0.93	27770	613.8	0.94	28241	622.2	0.95	28716	630.6	0.95	29194	639.0	0.96	29675	647.4	0.97	30161	655.8	0.97	30650	664.2	0.98	31143
588.8	0.92	26849	597.2	0.93	27313	605.6	0.93	27781	614.0	0.94	28252	622.4	0.95	28727	630.8	0.95	29205	639.2	0.96	29687	647.6	0.97	30172	656.0	0.97	30662	664.4	0.98	31155
589.0	0.92	26860	597.4	0.93	27324	605.8	0.93	27792	614.2	0.94	28263	622.6	0.95	28738	631.0	0.95	29216	639.4	0.96	29698	647.8	0.97	30184	656.2	0.97	30673	664.6	0.98	31166
589.2	0.92	26871	597.6	0.93	27335	606.0	0.93	27803	614.4	0.94	28275	622.8	0.95	28750	631.2	0.95	29228	639.6	0.96	29710	648.0	0.97	30196	656.4	0.97	30685	664.8	0.98	31178
589.4	0.92	26882	597.8	0.93	27346	606.2	0.93	27815	614.6	0.94	28286	623.0	0.95	28761	631.4	0.95	29239	639.8	0.96	29721	648.2	0.97	30207	656.6	0.98	30697	665.0	0.98	31190
589.6	0.92	26893	598.0	0.93	27358	606.4	0.93	27826	614.8	0.94	28297	623.2	0.95	28772	631.6	0.95	29251	640.0	0.96	29733	648.4	0.97	30219	656.8	0.98	30708	665.2	0.98	31202
589.8	0.92	26904	598.2	0.93	27369	606.6	0.93	27837	615.0	0.94	28309	623.4	0.95	28784	631.8	0.95	29262	640.2	0.96	29744	648.6	0.97	30230	657.0	0.98	30720	665.4	0.98	31214
590.0	0.92	26915	598.4	0.93	27380	606.8	0.93	27848	615.2	0.94	28320	623.6	0.95	28795	632.0	0.95	29274	640.4	0.96	29756	648.8	0.97	30242	657.2	0.98	30732	665.6	0.98	31225
590.2	0.92	26926	598.6	0.93	27391	607.0	0.93	27859	615.4	0.94	28331	623.8	0.95	28806	632.2	0.95	29285	640.6	0.96	29768	649.0	0.97	30254	657.4	0.98	30743	665.8	0.98	31237
590.4	0.92	26937	598.8	0.93	27402	607.2	0.93	27871	615.6	0.94	28342	624.0	0.95	28818	632.4	0.95	29297	640.8	0.96	29779	649.2	0.97	30265	657.6	0.98	30755	666.0	0.98	31249
590.6	0.92	26948	599.0	0.93	27413	607.4	0.93	27882	615.8	0.94	28354	624.2	0.95	28829	632.6	0.95	29308	641.0	0.96	29791	649.4	0.97	30277	657.8	0.98	30767	666.2	0.98	31261
590.8	0.92	26959	599.2	0.93	27424	607.6	0.93	27893	616.0	0.94	28365	624.4	0.95	28840	632.8	0.95	29319	641.2	0.96	29802	649.6	0.97	30288	658.0	0.98	30779	666.4	0.98	31273
591.0	0.92	26970	599.4	0.93	27435	607.8	0.93	27904	616.2	0.94	28376	624.6	0.95	28852	633.0	0.95	29331	641.4	0.96	29814	649.8	0.97	30300	658.2	0.98	30790	666.6	0.98	31284
591.2	0.92	26981	599.6	0.93	27446	608.0	0.93	27915	616.4	0.94	28387	624.8	0.95	28863	633.2	0.95	29342	641.6	0.96	29825	650.0	0.97	30312	658.4	0.98	30802	666.8	0.98	31296
591.4	0.92	26992	599.8	0.93	27458	608.2	0.93	27927	616.6	0.94	28399	625.0	0.95	28875	633.4	0.95	29354	641.8	0.96	29837	650.2	0.97	30323	658.6	0.98	30814	667.0	0.98	31308
591.6	0.92	27003	600.0	0.93	27469	608.4	0.93	27938	616.8	0.94	28410	625.2	0.95	28886	633.6	0.95	29365	642.0	0.96	29848	650.4	0.97	30335	658.8	0.98	30826	667.2	0.98	31320
591.8	0.92	27014	600.2	0.93	27480	608.6	0.93	27949	617.0	0.94	28421	625.4	0.95	28897	633.8	0.95	29377	642.2	0.96	29860	650.6	0.97	30347	659.0	0.98	30837	667.4	0.99	31332
592.0	0.92	27025	600.4	0.93	27491	608.8	0.93	27960	617.2	0.94	28433	625.6	0.95	28909	634.0	0.96	29388	642.4	0.96	29871	650.8	0.97	30358	659.2	0.98	30849	667.6	0.99	31344
592.2	0.92	27036	600.6	0.93	27502	609.0	0.93	27971	617.4	0.94	28444	625.8	0.95	28920	634.2	0.96	29400	642.6	0.96	29883	651.0	0.97	30370	659.4	0.98	30861	667.8	0.99	31355
592.4	0.92	27047	600.8	0.93	27513	609.2	0.93	27983	617.6	0.94	28455	626.0	0.95	28931	634.4	0.96	29411	642.8	0.96	29894	651.2	0.97	30382	659.6	0.98	30872	668.0	0.99	31367
592.6	0.92	27058	601.0	0.93	27524	609.4	0.93	27994	617.8	0.94	28467	626.2	0.95	28943	634.6	0.96	29423	643.0	0.96	29906	651.4	0.97	30393	659.8	0.98	30884	668.2	0.99	31379
592.8	0.92	27069	601.2	0.93	27536	609.6	0.93	28005	618.0	0.94	28478	626.4	0.95	28954	634.8	0.96	29434	643.2	0.96	29918	651.6	0.97	30405	660.0	0.98	30896	668.4	0.99	31391
593.0	0.92	27080	601.4	0.93	27547	609.8	0.93	28016	618.2	0.94	28489	626.6	0.95	28966	635.0	0.96	29446	643.4	0.96	29929	651.8	0.97	30416	660.2	0.98	30908	668.6	0.99	31403
593.2	0.92	27092	601.6	0.93	27558	610.0	0.94	28027	618.4	0.94	28500	626.8	0.95	28977	635.2	0.96	29457	643.6	0.96	29941	652.0	0.97	30428	660.4	0.98	30919	668.8	0.99	31415
593.4	0.92	27103	601.8	0.93	27569	610.2	0.94	28039	618.6	0.94	28512	627.0	0.95	28988	635.4	0.96	29468	643.8	0.96	29952	652.2	0.97	30440	660.6	0.98	30931	669.0	0.99	31426
593.6	0.92	27114	602.0	0.93	27580	610.4	0.94	28050	618.8	0.94	28523	627.2	0.95	29000	635.6	0.96	29480	644.0	0.96	29964	652.4	0.97	30451	660.8	0.98	30943	669.2	0.99	31438
593.8	0.92	27125	602.2	0.93	27591	610.6	0.94	28061	619.0	0.94	28534	627.4	0.95	29011	635.8	0.96	29491	644.2	0.96	29975	652.6	0.97	30463	661.0	0.98	30955	669.4	0.99	31450
594.0	0.92	27136	602.4	0.93	27602	610.8	0.94	28072	619.2	0.94	28546	627.6	0.95	29022	636.0	0.96	29503	644.4	0.96	29987	652.8	0.97	30475	661.2	0.98	30966	669.6	0.99	31462
594.2	0.92	27147	602.6	0.93	27614	611.0	0.94	28084	619.4	0.94	28557	627.8	0.95	29034	636.2	0.96	29514	644.6	0.96	29999	653.0	0.97	30486	661.4	0.98	30978	669.8	0.99	31474
594.4	0.92	27158	602.8	0.93	27625	611.2	0.94	28095	619.6	0.94	28568	628.0	0.95	29045	636.4	0.96	29526	644.8	0.96	30010	653.2	0.97	30498	661.6	0.98	30990	670.0	0.99	31486
594.6	0.92	27169	603.0	0.93	27636	611.4	0.94	28106	619.8	0.94	28580	628.2	0.95	29057	636.6	0.96	29537	645.0	0.96	30022	653.4	0.97	30510	661.8	0.98	31002	670.2	0.99	31497
594.8	0.92	27180	603.2	0.93	27647	611.6	0.94	28117	620.0	0.94	28591	628.4	0.95	29068	636.8	0.96	29549	645.2	0.96	30033	653.6	0.97	30521	662.0	0.98	31013	670.4	0.99	31509
595.0	0.92	27191	603.4	0.93	27658	611.8	0.94	28128	620.2	0.94	28602	628.6	0.95	29079	637.0	0.96	29560	645.4	0.96	30045	653.8	0.97	30533	662.2	0.98				

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.																											
672.0	0.99	31604	680.4	1.00	32105	688.8	1.01	32610	697.2	1.01	33119	705.6	1.02	33633	714.0	1.03	34151	722.4	1.04	34674	730.8	1.05	35201	739.2	1.06	35734	747.6	1.07	36271
672.2	0.99	31616	680.6	1.00	32117	689.0	1.01	32622	697.4	1.01	33131	705.8	1.02	33645	714.2	1.03	34163	722.6	1.04	34686	731.0	1.05	35214	739.4	1.06	35746	747.8	1.07	36284
672.4	0.99	31628	680.8	1.00	32129	689.2	1.01	32634	697.6	1.02	33144	706.0	1.02	33657	714.4	1.03	34176	722.8	1.04	34699	731.2	1.05	35226	739.6	1.06	35759	748.0	1.07	36297
672.6	0.99	31640	681.0	1.00	32141	689.4	1.01	32646	697.8	1.02	33156	706.2	1.02	33670	714.6	1.03	34188	723.0	1.04	34711	731.4	1.05	35239	739.8	1.06	35772	748.2	1.07	36310
672.8	0.99	31652	681.2	1.00	32153	689.6	1.01	32658	698.0	1.02	33168	706.4	1.02	33682	714.8	1.03	34200	723.2	1.04	34724	731.6	1.05	35252	740.0	1.06	35785	748.4	1.07	36322
673.0	0.99	31664	681.4	1.00	32165	689.8	1.01	32670	698.2	1.02	33180	706.6	1.02	33694	715.0	1.03	34213	723.4	1.04	34736	731.8	1.05	35264	740.2	1.06	35797	748.6	1.07	36335
673.2	0.99	31676	681.6	1.00	32177	690.0	1.01	32682	698.4	1.02	33192	706.8	1.02	33706	715.2	1.03	34225	723.6	1.04	34749	732.0	1.05	35277	740.4	1.06	35810	748.8	1.07	36348
673.4	0.99	31687	681.8	1.00	32189	690.2	1.01	32695	698.6	1.02	33204	707.0	1.02	33719	715.4	1.03	34238	723.8	1.04	34761	732.2	1.05	35290	740.6	1.06	35823	749.0	1.07	36361
673.6	0.99	31699	682.0	1.00	32201	690.4	1.01	32707	698.8	1.02	33217	707.2	1.03	33731	715.6	1.03	34250	724.0	1.04	34774	732.4	1.05	35302	740.8	1.06	35836	749.2	1.07	36374
673.8	0.99	31711	682.2	1.00	32213	690.6	1.01	32719	699.0	1.02	33229	707.4	1.03	33743	715.8	1.03	34262	724.2	1.04	34786	732.6	1.05	35315	741.0	1.06	35848	749.4	1.07	36387
674.0	0.99	31723	682.4	1.00	32225	690.8	1.01	32731	699.2	1.02	33241	707.6	1.03	33756	716.0	1.03	34275	724.4	1.04	34799	732.8	1.05	35327	741.2	1.06	35861	749.6	1.07	36400
674.2	0.99	31735	682.6	1.00	32237	691.0	1.01	32743	699.4	1.02	33253	707.8	1.03	33768	716.2	1.03	34287	724.6	1.04	34811	733.0	1.05	35340	741.4	1.06	35874	749.8	1.07	36413
674.4	0.99	31747	682.8	1.00	32249	691.2	1.01	32755	699.6	1.02	33265	708.0	1.03	33780	716.4	1.04	34300	724.8	1.04	34824	733.2	1.05	35353	741.6	1.06	35887	750.0	1.07	36426
674.6	0.99	31759	683.0	1.00	32261	691.4	1.01	32767	699.8	1.02	33278	708.2	1.03	33793	716.6	1.04	34312	725.0	1.04	34836	733.4	1.05	35365	741.8	1.06	35899	750.2	1.07	36438
674.8	0.99	31771	683.2	1.00	32273	691.6	1.01	32779	700.0	1.02	33290	708.4	1.03	33805	716.8	1.04	34325	725.2	1.05	34849	733.6	1.05	35378	742.0	1.06	35912	750.4	1.08	36451
675.0	0.99	31783	683.4	1.00	32285	691.8	1.01	32791	700.2	1.02	33302	708.6	1.03	33817	717.0	1.04	34337	725.4	1.05	34861	733.8	1.05	35391	742.2	1.06	35925	750.6	1.08	36464
675.2	0.99	31795	683.6	1.00	32297	692.0	1.01	32803	700.4	1.02	33314	708.8	1.03	33830	717.2	1.04	34349	725.6	1.05	34874	734.0	1.06	35403	742.4	1.07	35938	750.8	1.08	36477
675.4	0.99	31806	683.8	1.00	32309	692.2	1.01	32816	700.6	1.02	33326	709.0	1.03	33842	717.4	1.04	34362	725.8	1.05	34887	734.2	1.06	35416	742.6	1.07	35950	751.0	1.08	36490
675.6	0.99	31818	684.0	1.00	32321	692.4	1.01	32828	700.8	1.02	33339	709.2	1.03	33854	717.6	1.04	34374	726.0	1.05	34899	734.4	1.06	35429	742.8	1.07	35963	751.2	1.08	36503
675.8	0.99	31830	684.2	1.00	32333	692.6	1.01	32840	701.0	1.02	33351	709.4	1.03	33867	717.8	1.04	34387	726.2	1.05	34912	734.6	1.06	35441	743.0	1.07	35976	751.4	1.08	36516
676.0	0.99	31842	684.4	1.00	32345	692.8	1.01	32852	701.2	1.02	33363	709.6	1.03	33879	718.0	1.04	34399	726.4	1.05	34924	734.8	1.06	35454	743.2	1.07	35989	751.6	1.08	36529
676.2	0.99	31854	684.6	1.00	32357	693.0	1.01	32864	701.4	1.02	33375	709.8	1.03	33891	718.2	1.04	34412	726.6	1.05	34937	735.0	1.06	35467	743.4	1.07	36002	751.8	1.08	36542
676.4	0.99	31866	684.8	1.00	32369	693.2	1.01	32876	701.6	1.02	33388	710.0	1.03	33904	718.4	1.04	34424	726.8	1.05	34949	735.2	1.06	35479	743.6	1.07	36014	752.0	1.08	36555
676.6	0.99	31878	685.0	1.00	32381	693.4	1.01	32888	701.8	1.02	33400	710.2	1.03	33916	718.6	1.04	34437	727.0	1.05	34962	735.4	1.06	35492	743.8	1.07	36027	752.2	1.08	36568
676.8	0.99	31890	685.2	1.00	32393	693.6	1.01	32900	702.0	1.02	33412	710.4	1.03	33928	718.8	1.04	34449	727.2	1.05	34974	735.6	1.06	35505	744.0	1.07	36040	752.4	1.08	36580
677.0	0.99	31902	685.4	1.00	32405	693.8	1.01	32913	702.2	1.02	33424	710.6	1.03	33941	719.0	1.04	34461	727.4	1.05	34987	735.8	1.06	35517	744.2	1.07	36053	752.6	1.08	36593
677.2	0.99	31914	685.6	1.00	32417	694.0	1.01	32925	702.4	1.02	33437	710.8	1.03	33953	719.2	1.04	34474	727.6	1.05	35000	736.0	1.06	35530	744.4	1.07	36066	752.8	1.08	36606
677.4	0.99	31926	685.8	1.00	32429	694.2	1.01	32937	702.6	1.02	33449	711.0	1.03	33965	719.4	1.04	34486	727.8	1.05	35012	736.2	1.06	35543	744.6	1.07	36078	753.0	1.08	36619
677.6	0.99	31938	686.0	1.00	32441	694.4	1.01	32949	702.8	1.02	33461	711.2	1.03	33978	719.6	1.04	34499	728.0	1.05	35025	736.4	1.06	35556	744.8	1.07	36091	753.2	1.08	36632
677.8	1.00	31950	686.2	1.00	32453	694.6	1.01	32961	703.0	1.02	33473	711.4	1.03	33990	719.8	1.04	34511	728.2	1.05	35037	736.6	1.06	35568	745.0	1.07	36104	753.4	1.08	36645
678.0	1.00	31962	686.4	1.00	32465	694.8	1.01	32973	703.2	1.02	33486	711.6	1.03	34002	720.0	1.04	34524	728.4	1.05	35050	736.8	1.06	35581	745.2	1.07	36117	753.6	1.08	36658
678.2	1.00	31973	686.6	1.00	32477	695.0	1.01	32985	703.4	1.02	33498	711.8	1.03	34015	720.2	1.04	34536	728.6	1.05	35062	737.0	1.06	35594	745.4	1.07	36130	753.8	1.08	36671
678.4	1.00	31985	686.8	1.00	32489	695.2	1.01	32998	703.6	1.02	33510	712.0	1.03	34027	720.4	1.04	34549	728.8	1.05	35075	737.2	1.06	35606	745.6	1.07	36143	754.0	1.08	36684
678.6	1.00	31997	687.0	1.00	32501	695.4	1.01	33010	703.8	1.02	33522	712.2	1.03	34039	720.6	1.04	34561	729.0	1.05	35088	737.4	1.06	35619	745.8	1.07	36155	754.2	1.08	36697
678.8	1.00	32009	687.2	1.00	32513	695.6	1.01	33022	704.0	1.02	33535	712.4	1.03	34052	720.8	1.04	34574	729.2	1.05	35100	737.6	1.06	35632	746.0	1.07	36168	754.4	1.08	36710
679.0	1.00	32021	687.4	1.00	32525	695.8	1.01	33034	704.2	1.02	33547	712.6	1.03	34064	721.0	1.04	34586	729.4	1.05	35113	737.8	1.06	35644	746.2	1.07				

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
756.0	1.08	36814	764.4	1.09	37362	772.8	1.10	37915	781.2	1.12	38475	789.6	1.13	39040	798.0	1.14	39611	806.4	1.15	40189	814.8	1.17	40773	823.2	1.18	41364	831.6	1.19	41962
756.2	1.08	36827	764.6	1.09	37375	773.0	1.10	37929	781.4	1.12	38488	789.8	1.13	39053	798.2	1.14	39625	806.6	1.15	40203	815.0	1.17	40787	823.4	1.18	41378	831.8	1.19	41976
756.4	1.08	36840	764.8	1.09	37388	773.2	1.10	37942	781.6	1.12	38501	790.0	1.13	39067	798.4	1.14	39639	806.8	1.15	40217	815.2	1.17	40801	823.6	1.18	41392	832.0	1.19	41991
756.6	1.08	36853	765.0	1.09	37401	773.4	1.10	37955	781.8	1.12	38515	790.2	1.13	39081	798.6	1.14	39652	807.0	1.15	40230	815.4	1.17	40815	823.8	1.18	41407	832.2	1.19	42005
756.8	1.08	36866	765.2	1.09	37414	773.6	1.11	37968	782.0	1.12	38528	790.4	1.13	39094	798.8	1.14	39666	807.2	1.15	40244	815.6	1.17	40829	824.0	1.18	41421	832.4	1.20	42019
757.0	1.08	36879	765.4	1.09	37427	773.8	1.11	37982	782.2	1.12	38542	790.6	1.13	39108	799.0	1.14	39680	807.4	1.15	40258	815.8	1.17	40843	824.2	1.18	41435	832.6	1.20	42034
757.2	1.08	36892	765.6	1.09	37441	774.0	1.11	37995	782.4	1.12	38555	790.8	1.13	39121	799.2	1.14	39693	807.6	1.15	40272	816.0	1.17	40857	824.4	1.18	41449	832.8	1.20	42048
757.4	1.08	36905	765.8	1.09	37454	774.2	1.11	38008	782.6	1.12	38569	791.0	1.13	39135	799.4	1.14	39707	807.8	1.15	40286	816.2	1.17	40871	824.6	1.18	41463	833.0	1.20	42063
757.6	1.08	36918	766.0	1.09	37467	774.4	1.11	38021	782.8	1.12	38582	791.2	1.13	39148	799.6	1.14	39721	808.0	1.16	40300	816.4	1.17	40885	824.8	1.18	41477	833.2	1.20	42077
757.8	1.08	36931	766.2	1.10	37480	774.6	1.11	38035	783.0	1.12	38595	791.4	1.13	39162	799.8	1.14	39735	808.2	1.16	40314	816.6	1.17	40899	825.0	1.18	41492	833.4	1.20	42091
758.0	1.08	36944	766.4	1.10	37493	774.8	1.11	38048	783.2	1.12	38609	791.6	1.13	39175	800.0	1.14	39748	808.4	1.16	40327	816.8	1.17	40913	825.2	1.18	41506	833.6	1.20	42106
758.2	1.08	36957	766.6	1.10	37506	775.0	1.11	38061	783.4	1.12	38622	791.8	1.13	39189	800.2	1.14	39762	808.6	1.16	40341	817.0	1.17	40927	825.4	1.18	41520	833.8	1.20	42120
758.4	1.09	36970	766.8	1.10	37519	775.2	1.11	38075	783.6	1.12	38636	792.0	1.13	39203	800.4	1.14	39776	808.8	1.16	40355	817.2	1.17	40941	825.6	1.18	41534	834.0	1.20	42134
758.6	1.09	36983	767.0	1.10	37533	775.4	1.11	38088	783.8	1.12	38649	792.2	1.13	39216	800.6	1.14	39789	809.0	1.16	40369	817.4	1.17	40955	825.8	1.18	41548	834.2	1.20	42149
758.8	1.09	36996	767.2	1.10	37546	775.6	1.11	38101	784.0	1.12	38662	792.4	1.13	39230	800.8	1.14	39803	809.2	1.16	40383	817.6	1.17	40969	826.0	1.18	41563	834.4	1.20	42163
759.0	1.09	37009	767.4	1.10	37559	775.8	1.11	38114	784.2	1.12	38676	792.6	1.13	39243	801.0	1.14	39817	809.4	1.16	40397	817.8	1.17	40983	826.2	1.18	41577	834.6	1.20	42177
759.2	1.09	37022	767.6	1.10	37572	776.0	1.11	38128	784.4	1.12	38689	792.8	1.13	39257	801.2	1.14	39831	809.6	1.16	40411	818.0	1.17	40997	826.4	1.18	41591	834.8	1.20	42192
759.4	1.09	37035	767.8	1.10	37585	776.2	1.11	38141	784.6	1.12	38703	793.0	1.13	39270	801.4	1.14	39844	809.8	1.16	40425	818.2	1.17	41012	826.6	1.19	41605	835.0	1.20	42206
759.6	1.09	37048	768.0	1.10	37598	776.4	1.11	38154	784.8	1.12	38716	793.2	1.13	39284	801.6	1.15	39858	810.0	1.16	40439	818.4	1.17	41026	826.8	1.19	41620	835.2	1.20	42221
759.8	1.09	37061	768.2	1.10	37612	776.6	1.11	38168	785.0	1.12	38730	793.4	1.13	39298	801.8	1.15	39872	810.2	1.16	40452	818.6	1.17	41040	827.0	1.19	41634	835.4	1.20	42235
760.0	1.09	37074	768.4	1.10	37625	776.8	1.11	38181	785.2	1.12	38743	793.6	1.13	39311	802.0	1.15	39886	810.4	1.16	40466	818.8	1.17	41054	827.2	1.19	41648	835.6	1.20	42249
760.2	1.09	37087	768.6	1.10	37638	777.0	1.11	38194	785.4	1.12	38757	793.8	1.13	39325	802.2	1.15	39899	810.6	1.16	40480	819.0	1.17	41068	827.4	1.19	41662	835.8	1.20	42264
760.4	1.09	37100	768.8	1.10	37651	777.2	1.11	38208	785.6	1.12	38770	794.0	1.13	39338	802.4	1.15	39913	810.8	1.16	40494	819.2	1.17	41082	827.6	1.19	41676	836.0	1.20	42278
760.6	1.09	37113	769.0	1.10	37664	777.4	1.11	38221	785.8	1.12	38784	794.2	1.13	39352	802.6	1.15	39927	811.0	1.16	40508	819.4	1.17	41096	827.8	1.19	41691	836.2	1.20	42293
760.8	1.09	37126	769.2	1.10	37677	777.6	1.11	38234	786.0	1.12	38797	794.4	1.13	39366	802.8	1.15	39941	811.2	1.16	40522	819.6	1.17	41110	828.0	1.19	41705	836.4	1.20	42307
761.0	1.09	37139	769.4	1.10	37691	777.8	1.11	38248	786.2	1.12	38810	794.6	1.13	39379	803.0	1.15	39954	811.4	1.16	40536	819.8	1.17	41124	828.2	1.19	41719	836.6	1.20	42322
761.2	1.09	37152	769.6	1.10	37704	778.0	1.11	38261	786.4	1.12	38824	794.8	1.14	39393	803.2	1.15	39968	811.6	1.16	40550	820.0	1.17	41138	828.4	1.19	41733	836.8	1.20	42336
761.4	1.09	37165	769.8	1.10	37717	778.2	1.11	38274	786.6	1.12	38837	795.0	1.14	39407	803.4	1.15	39982	811.8	1.16	40564	820.2	1.17	41152	828.6	1.19	41748	837.0	1.20	42350
761.6	1.09	37178	770.0	1.10	37730	778.4	1.11	38288	786.8	1.12	38851	795.2	1.14	39420	803.6	1.15	39996	812.0	1.16	40578	820.4	1.17	41166	828.8	1.19	41762	837.2	1.20	42365
761.8	1.09	37192	770.2	1.10	37743	778.6	1.11	38301	787.0	1.12	38864	795.4	1.14	39434	803.8	1.15	40009	812.2	1.16	40592	820.6	1.18	41180	829.0	1.19	41776	837.4	1.20	42379
762.0	1.09	37205	770.4	1.10	37757	778.8	1.11	38314	787.2	1.12	38878	795.6	1.14	39447	804.0	1.15	40023	812.4	1.16	40606	820.8	1.18	41195	829.2	1.19	41791	837.6	1.20	42394
762.2	1.09	37218	770.6	1.10	37770	779.0	1.11	38328	787.4	1.12	38891	795.8	1.14	39461	804.2	1.15	40037	812.6	1.16	40619	821.0	1.18	41209	829.4	1.19	41805	837.8	1.20	42408
762.4	1.09	37231	770.8	1.10	37783	779.2	1.11	38341	787.6	1.12	38905	796.0	1.14	39475	804.4	1.15	40051	812.8	1.16	40633	821.2	1.18	41223	829.6	1.19	41819	838.0	1.20	42423
762.6	1.09	37244	771.0	1.10	37796	779.4	1.11	38354	787.8	1.12	38918	796.2	1.14	39488	804.6	1.15	40065	813.0	1.16	40647	821.4	1.18	41237	829.8	1.19	41833	838.2	1.21	42437
762.8	1.09	37257	771.2	1.10	37810	779.6	1.11	38368	788.0	1.13	38932	796.4	1.14	39502	804.8	1.15	40078	813.2	1.16	40661	821.6	1.18	41251	830.0	1.19	41848	838.4	1.21	42452
763.0	1.09	37270	771.4	1.10	37823	779.8	1.11	38381	788.2	1.13	38945	796.6	1.14	39516	805.0	1.15	40092	813.4	1.16	40675	821.8	1.18	41265	830.2	1.19	41862	838.6	1.21	42466
763.2	1.09	37283	771.6	1.10	37836	780.0</td																							

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
840.0	1.21	42567	848.4	1.22	43180	856.8	1.24	43801	865.2	1.26	44430	873.6	1.27	45068	882.0	1.29	45714	890.4	1.31	46370	898.8	1.33	47036	907.2	1.35	47712	915.6	1.37	48399
840.2	1.21	42582	848.6	1.22	43195	857.0	1.24	43816	865.4	1.26	44445	873.8	1.27	45083	882.2	1.29	45730	890.6	1.31	46386	899.0	1.33	47052	907.4	1.35	47728	915.8	1.37	48415
840.4	1.21	42596	848.8	1.22	43210	857.2	1.24	43831	865.6	1.26	44460	874.0	1.27	45098	882.4	1.29	45745	890.8	1.31	46402	899.2	1.33	47068	907.6	1.35	47744	916.0	1.37	48432
840.6	1.21	42611	849.0	1.22	43224	857.4	1.24	43846	865.8	1.26	44475	874.2	1.28	45114	882.6	1.29	45761	891.0	1.31	46417	899.4	1.33	47084	907.8	1.35	47761	916.2	1.38	48448
840.8	1.21	42625	849.2	1.23	43239	857.6	1.24	43861	866.0	1.26	44491	874.4	1.28	45129	882.8	1.29	45776	891.2	1.31	46433	899.6	1.33	47100	908.0	1.35	47777	916.4	1.38	48465
841.0	1.21	42640	849.4	1.23	43254	857.8	1.24	43876	866.2	1.26	44506	874.6	1.28	45144	883.0	1.29	45792	891.4	1.31	46449	899.8	1.33	47116	908.2	1.35	47793	916.6	1.38	48481
841.2	1.21	42655	849.6	1.23	43269	858.0	1.24	43891	866.4	1.26	44521	874.8	1.28	45160	883.2	1.29	45807	891.6	1.31	46465	900.0	1.33	47132	908.4	1.35	47809	916.8	1.38	48498
841.4	1.21	42669	849.8	1.23	43283	858.2	1.24	43905	866.6	1.26	44536	875.0	1.28	45175	883.4	1.30	45823	891.8	1.31	46480	900.2	1.33	47148	908.6	1.36	47826	917.0	1.38	48514
841.6	1.21	42684	850.0	1.23	43298	858.4	1.24	43920	866.8	1.26	44551	875.2	1.28	45190	883.6	1.30	45839	892.0	1.31	46496	900.4	1.33	47164	908.8	1.36	47842	917.2	1.38	48531
841.8	1.21	42698	850.2	1.23	43313	858.6	1.24	43935	867.0	1.26	44566	875.4	1.28	45206	883.8	1.30	45854	892.2	1.32	46512	900.6	1.34	47180	909.0	1.36	47858	917.4	1.38	48547
842.0	1.21	42713	850.4	1.23	43327	858.8	1.24	43950	867.2	1.26	44581	875.6	1.28	45221	884.0	1.30	45870	892.4	1.32	46528	900.8	1.34	47196	909.2	1.36	47874	917.6	1.38	48564
842.2	1.21	42727	850.6	1.23	43342	859.0	1.24	43965	867.4	1.26	44596	875.8	1.28	45236	884.2	1.30	45885	892.6	1.32	46544	901.0	1.34	47212	909.4	1.36	47891	917.8	1.38	48580
842.4	1.21	42742	850.8	1.23	43357	859.2	1.24	43980	867.6	1.26	44611	876.0	1.28	45252	884.4	1.30	45901	892.8	1.32	46559	901.2	1.34	47228	909.6	1.36	47907	918.0	1.38	48597
842.6	1.21	42756	851.0	1.23	43372	859.4	1.24	43995	867.8	1.26	44627	876.2	1.28	45267	884.6	1.30	45916	893.0	1.32	46575	901.4	1.34	47244	909.8	1.36	47923	918.2	1.38	48613
842.8	1.21	42771	851.2	1.23	43386	859.6	1.25	44010	868.0	1.26	44642	876.4	1.28	45282	884.8	1.30	45932	893.2	1.32	46591	901.6	1.34	47260	910.0	1.36	47939	918.4	1.38	48630
843.0	1.21	42785	851.4	1.23	43401	859.8	1.25	44025	868.2	1.26	44657	876.6	1.28	45298	885.0	1.30	45947	893.4	1.32	46607	901.8	1.34	47276	910.2	1.36	47956	918.6	1.38	48646
843.2	1.21	42800	851.6	1.23	43416	860.0	1.25	44040	868.4	1.26	44672	876.8	1.28	45313	885.2	1.30	45963	893.6	1.32	46623	902.0	1.34	47292	910.4	1.36	47972	918.8	1.38	48663
843.4	1.21	42815	851.8	1.23	43431	860.2	1.25	44055	868.6	1.26	44687	877.0	1.28	45328	885.4	1.30	45979	893.8	1.32	46638	902.2	1.34	47308	910.6	1.36	47988	919.0	1.38	48680
843.6	1.21	42829	852.0	1.23	43445	860.4	1.25	44070	868.8	1.26	44702	877.2	1.28	45344	885.6	1.30	45994	894.0	1.32	46654	902.4	1.34	47324	910.8	1.36	48005	919.2	1.38	48696
843.8	1.22	42844	852.2	1.23	43460	860.6	1.25	44085	869.0	1.26	44718	877.4	1.28	45359	885.8	1.30	46010	894.2	1.32	46670	902.6	1.34	47340	911.0	1.36	48021	919.4	1.38	48713
844.0	1.22	42858	852.4	1.23	43475	860.8	1.25	44100	869.2	1.26	44733	877.6	1.28	45375	886.0	1.30	46025	894.4	1.32	46686	902.8	1.34	47356	911.2	1.36	48037	919.6	1.38	48729
844.2	1.22	42873	852.6	1.23	43490	861.0	1.25	44115	869.4	1.27	44748	877.8	1.28	45390	886.2	1.30	46041	894.6	1.32	46702	903.0	1.34	47373	911.4	1.36	48054	919.8	1.38	48746
844.4	1.22	42888	852.8	1.23	43505	861.2	1.25	44130	869.6	1.27	44763	878.0	1.28	45405	886.4	1.30	46057	894.8	1.32	46718	903.2	1.34	47389	911.6	1.36	48070	920.0	1.39	48763
844.6	1.22	42902	853.0	1.23	43519	861.4	1.25	44145	869.8	1.27	44778	878.2	1.28	45421	886.6	1.30	46072	895.0	1.32	46733	903.4	1.34	47405	911.8	1.36	48087	920.2	1.39	48779
844.8	1.22	42917	853.2	1.23	43534	861.6	1.25	44160	870.0	1.27	44793	878.4	1.28	45436	886.8	1.30	46088	895.2	1.32	46749	903.6	1.34	47421	912.0	1.36	48103	920.4	1.39	48796
845.0	1.22	42931	853.4	1.23	43549	861.8	1.25	44175	870.2	1.27	44809	878.6	1.28	45452	887.0	1.30	46104	895.4	1.32	46765	903.8	1.34	47437	912.2	1.36	48119	920.6	1.39	48813
845.2	1.22	42946	853.6	1.23	43564	862.0	1.25	44190	870.4	1.27	44824	878.8	1.28	45467	887.2	1.30	46119	895.6	1.32	46781	904.0	1.34	47453	912.4	1.37	48136	920.8	1.39	48829
845.4	1.22	42961	853.8	1.23	43579	862.2	1.25	44205	870.6	1.27	44839	879.0	1.29	45482	887.4	1.30	46135	895.8	1.32	46797	904.2	1.34	47469	912.6	1.37	48152	921.0	1.39	48846
845.6	1.22	42975	854.0	1.23	43593	862.4	1.25	44220	870.8	1.27	44854	879.2	1.29	45498	887.6	1.30	46151	896.0	1.32	46813	904.4	1.34	47485	912.8	1.37	48168	921.2	1.39	48863
845.8	1.22	42990	854.2	1.23	43608	862.6	1.25	44235	871.0	1.27	44869	879.4	1.29	45513	887.8	1.30	46166	896.2	1.32	46829	904.6	1.35	47501	913.0	1.37	48185	921.4	1.39	48879
846.0	1.22	43004	854.4	1.24	43623	862.8	1.25	44250	871.2	1.27	44885	879.6	1.29	45529	888.0	1.31	46182	896.4	1.33	46845	904.8	1.35	47518	913.2	1.37	48201	921.6	1.39	48896
846.2	1.22	43019	854.6	1.24	43638	863.0	1.25	44265	871.4	1.27	44900	879.8	1.29	45544	888.2	1.31	46197	896.6	1.33	46861	905.0	1.35	47534	913.4	1.37	48218	921.8	1.39	48913
846.4	1.22	43034	854.8	1.24	43653	863.2	1.25	44280	871.6	1.27	44915	880.0	1.29	45560	888.4	1.31	46213	896.8	1.33	46876	905.2	1.35	47550	913.6	1.37	48234	922.0	1.39	48929
846.6	1.22	43048	855.0	1.24	43667	863.4	1.25	44295	871.8	1.27	44930	880.2	1.29	45575	888.6	1.31	46229	897.0	1.33	46892	905.4	1.35	47566	913.8	1.37	48250	922.2	1.39	48946
846.8	1.22	43063	855.2	1.24	43682	863.6	1.25	44310	872.0	1.27	44946	880.4	1.29	45590	888.8	1.31	46245	897.2	1.33	46908	905.6	1.35	47582	914.0	1.37	48267	922.4	1.39	48963
847.0	1.22	43078	855.4	1.24	43697	863.8	1.25	44325	872.2	1.27	44961	880.6	1.29	45606	889.0	1.31	46260	897.4	1.33	46924	905.8	1.35	47598	914.2	1.37	48283	922.6	1.39	48979
847.2	1.22	43092	855.6	1.24	43712	864.0</td																							

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
924.0	1.40	49097	932.4	1.42	49807	940.8	1.45	50529	949.2	1.47	51265	957.6	1.50	52015	966.0	1.53	52780	974.4	1.57	53561	982.8	1.60	54359	991.2	1.64	55176	999.6	1.68	56012
924.2	1.40	49113	932.6	1.42	49824	941.0	1.45	50546	949.4	1.47	51283	957.8	1.50	52033	966.2	1.53	52798	974.6	1.57	53580	983.0	1.60	54378	991.4	1.64	55195	999.8	1.68	56032
924.4	1.40	49130	932.8	1.42	49841	941.2	1.45	50564	949.6	1.48	51300	958.0	1.50	52051	966.4	1.53	52817	974.8	1.57	53599	983.2	1.60	54398	991.6	1.64	55215	1000.0	1.68	56052
924.6	1.40	49147	933.0	1.42	49858	941.4	1.45	50581	949.8	1.48	51318	958.2	1.50	52069	966.6	1.54	52835	975.0	1.57	53617	983.4	1.60	54417	991.8	1.64	55235	1000.2	1.68	56072
924.8	1.40	49164	933.2	1.42	49875	941.6	1.45	50599	950.0	1.48	51336	958.4	1.51	52087	966.8	1.54	52854	975.2	1.57	53636	983.6	1.60	54436	992.0	1.64	55254	1000.4	1.68	56092
925.0	1.40	49180	933.4	1.42	49892	941.8	1.45	50616	950.2	1.48	51354	958.6	1.51	52105	967.0	1.54	52872	975.4	1.57	53655	983.8	1.61	54455	992.2	1.64	55274	1000.6	1.68	56113
925.2	1.40	49197	933.6	1.42	49909	942.0	1.45	50633	950.4	1.48	51371	958.8	1.51	52123	967.2	1.54	52891	975.6	1.57	53674	984.0	1.61	54475	992.4	1.64	55294	1000.8	1.69	56133
925.4	1.40	49214	933.8	1.43	49926	942.2	1.45	50651	950.6	1.48	51389	959.0	1.51	52141	967.4	1.54	52909	975.8	1.57	53693	984.2	1.61	54494	992.6	1.65	55314	1001.0	1.69	56153
925.6	1.40	49231	934.0	1.43	49943	942.4	1.45	50668	950.8	1.48	51407	959.2	1.51	52160	967.6	1.54	52928	976.0	1.57	53712	984.4	1.61	54513	992.8	1.65	55333	1001.2	1.69	56173
925.8	1.40	49248	934.2	1.43	49960	942.6	1.45	50686	951.0	1.48	51425	959.4	1.51	52178	967.8	1.54	52946	976.2	1.57	53731	984.6	1.61	54533	993.0	1.65	55353	1001.4	1.69	56194
926.0	1.40	49265	934.4	1.43	49977	942.8	1.45	50703	951.2	1.48	51442	959.6	1.51	52196	968.0	1.54	52965	976.4	1.57	53749	984.8	1.61	54552	993.2	1.65	55373	1001.6	1.69	56214
926.2	1.40	49281	934.6	1.43	49995	943.0	1.45	50721	951.4	1.48	51460	959.8	1.51	52214	968.2	1.54	52983	976.6	1.58	53768	985.0	1.61	54571	993.4	1.65	55393	1001.8	1.69	56234
926.4	1.40	49298	934.8	1.43	50012	943.2	1.45	50738	951.6	1.48	51478	960.0	1.51	52232	968.4	1.54	53002	976.8	1.58	53787	985.2	1.61	54591	993.6	1.65	55412	1002.0	1.69	56254
926.6	1.40	49315	935.0	1.43	50029	943.4	1.45	50755	951.8	1.48	51496	960.2	1.51	52250	968.6	1.54	53020	977.0	1.58	53806	985.4	1.61	54610	993.8	1.65	55432	1002.2	1.69	56275
926.8	1.40	49332	935.2	1.43	50046	943.6	1.46	50773	952.0	1.48	51513	960.4	1.51	52268	968.8	1.54	53039	977.2	1.58	53825	985.6	1.61	54629	994.0	1.65	55452	1002.4	1.69	56295
927.0	1.41	49349	935.4	1.43	50063	943.8	1.46	50790	952.2	1.48	51531	960.6	1.51	52286	969.0	1.54	53057	977.4	1.58	53844	985.8	1.61	54649	994.2	1.65	55472	1002.6	1.69	56315
927.2	1.41	49366	935.6	1.43	50080	944.0	1.46	50808	952.4	1.48	51549	960.8	1.51	52305	969.2	1.55	53076	977.6	1.58	53863	986.0	1.62	54668	994.4	1.65	55492	1002.8	1.70	56336
927.4	1.41	49382	935.8	1.43	50097	944.2	1.46	50825	952.6	1.49	51567	961.0	1.51	52323	969.4	1.55	53094	977.8	1.58	53882	986.2	1.62	54687	994.6	1.65	55512	1003.0	1.70	56356
927.6	1.41	49399	936.0	1.43	50115	944.4	1.46	50843	952.8	1.49	51585	961.2	1.52	52341	969.6	1.55	53113	978.0	1.58	53901	986.4	1.62	54707	994.8	1.66	55531	1003.2	1.70	56376
927.8	1.41	49416	936.2	1.43	50132	944.6	1.46	50860	953.0	1.49	51603	961.4	1.52	52359	969.8	1.55	53131	978.2	1.58	53920	986.6	1.62	54726	995.0	1.66	55551	1003.4	1.70	56397
928.0	1.41	49433	936.4	1.43	50149	944.8	1.46	50878	953.2	1.49	51620	961.6	1.52	52377	970.0	1.55	53150	978.4	1.58	53939	986.8	1.62	54746	995.2	1.66	55571	1003.6	1.70	56417
928.2	1.41	49450	936.6	1.43	50166	945.0	1.46	50895	953.4	1.49	51638	961.8	1.52	52396	970.2	1.55	53168	978.6	1.58	53958	987.0	1.62	54765	995.4	1.66	55591	1003.8	1.70	56438
928.4	1.41	49467	936.8	1.43	50183	945.2	1.46	50913	953.6	1.49	51656	962.0	1.52	52414	970.4	1.55	53187	978.8	1.58	53977	987.2	1.62	54784	995.6	1.66	55611	1004.0	1.70	56458
928.6	1.41	49484	937.0	1.43	50201	945.4	1.46	50930	953.8	1.49	51674	962.2	1.52	52432	970.6	1.55	53206	979.0	1.59	53996	987.4	1.62	54804	995.8	1.66	55631	1004.2	1.70	56478
928.8	1.41	49501	937.2	1.44	50218	945.6	1.46	50948	954.0	1.49	51692	962.4	1.52	52450	970.8	1.55	53224	979.2	1.59	54015	987.6	1.62	54823	996.0	1.66	55651	1004.4	1.70	56499
929.0	1.41	49518	937.4	1.44	50235	945.8	1.46	50965	954.2	1.49	51710	962.6	1.52	52469	971.0	1.55	53243	979.4	1.59	54034	987.8	1.62	54843	996.2	1.66	55671	1004.6	1.71	56519
929.2	1.41	49535	937.6	1.44	50252	946.0	1.46	50983	954.4	1.49	51728	962.8	1.52	52487	971.2	1.55	53262	979.6	1.59	54053	988.0	1.62	54862	996.4	1.66	55691	1004.8	1.71	56540
929.4	1.41	49552	937.8	1.44	50270	946.2	1.46	51001	954.6	1.49	51745	963.0	1.52	52505	971.4	1.55	53280	979.8	1.59	54072	988.2	1.63	54882	996.6	1.66	55711	1005.0	1.71	56560
929.6	1.41	49569	938.0	1.44	50287	946.4	1.46	51018	954.8	1.49	51763	963.2	1.52	52523	971.6	1.56	53299	980.0	1.59	54091	988.4	1.63	54901	996.8	1.67	55731	1005.2	1.71	56581
929.8	1.41	49585	938.2	1.44	50304	946.6	1.47	51036	955.0	1.49	51781	963.4	1.52	52542	971.8	1.56	53318	980.2	1.59	54110	988.6	1.63	54921	997.0	1.67	55751	1005.4	1.71	56601
930.0	1.41	49602	938.4	1.44	50321	946.8	1.47	51053	955.2	1.49	51799	963.6	1.52	52560	972.0	1.56	53336	980.4	1.59	54129	988.8	1.63	54940	997.2	1.67	55771	1005.6	1.71	56622
930.2	1.41	49619	938.6	1.44	50339	947.0	1.47	51071	955.4	1.49	51817	963.8	1.53	52578	972.2	1.56	53355	980.6	1.59	54148	989.0	1.63	54960	997.4	1.67	55791	1005.8	1.71	56642
930.4	1.42	49636	938.8	1.44	50356	947.2	1.47	51089	955.6	1.50	51835	964.0	1.53	52596	972.4	1.56	53374	980.8	1.59	54168	989.2	1.63	54979	997.6	1.67	55811	1006.0	1.71	56663
930.6	1.42	49653	939.0	1.44	50373	947.4	1.47	51106	955.8	1.50	51853	964.2	1.53	52615	972.6	1.56	53392	981.0	1.59	54187	989.4	1.63	54999	997.8	1.67	55831	1006.2	1.71	56683
930.8	1.42	49670	939.2	1.44	50390	947.6	1.47	51124	956.0	1.50	51871	964.4	1.53	52633	972.8	1.56	53411	981.2	1.59	54206	989.6	1.63	55019	998.0	1.67	55851	1006.4	1.71	56704
931.0	1.42	49687	939.4	1.44	50408	947.8	1.47	51141	956.2	1.50	51889	964.6	1.53	52651	973.0	1.56	53430	981.4	1.60	54225	989.8	1.63	55038	998.2	1.67	55871	1006.6	1.72	56725
931.2	1.42	49704	93																										

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.																											
1008.0	1.72	56869	1016.4	1.77	57749	1024.8	1.82	58655	1033.2	1.88	59588	1041.6	1.94	60551	1050.0	2.01	61548	1058.4	2.09	62583	1066.8	2.18	63659	1075.2	2.29	64785	1083.6	2.40	65966
1008.2	1.72	56890	1016.6	1.77	57771	1025.0	1.82	58677	1033.4	1.88	59611	1041.8	1.95	60575	1050.2	2.02	61572	1058.6	2.09	62608	1067.0	2.18	63686	1075.4	2.29	64812	1083.8	2.41	65995
1008.4	1.73	56910	1016.8	1.77	57792	1025.2	1.83	58699	1033.6	1.88	59633	1042.0	1.95	60598	1050.4	2.02	61597	1058.8	2.10	62633	1067.2	2.19	63712	1075.6	2.29	64840	1084.0	2.41	66024
1008.6	1.73	56931	1017.0	1.77	57813	1025.4	1.83	58721	1033.8	1.88	59656	1042.2	1.95	60621	1050.6	2.02	61621	1059.0	2.10	62658	1067.4	2.19	63738	1075.8	2.29	64867	1084.2	2.41	66052
1008.8	1.73	56952	1017.2	1.78	57835	1025.6	1.83	58743	1034.0	1.89	59678	1042.4	1.95	60645	1050.8	2.02	61645	1059.2	2.10	62683	1067.6	2.19	63764	1076.0	2.30	64895	1084.4	2.42	66081
1009.0	1.73	56973	1017.4	1.78	57856	1025.8	1.83	58765	1034.2	1.89	59701	1042.6	1.95	60668	1051.0	2.02	61669	1059.4	2.10	62709	1067.8	2.19	63791	1076.2	2.30	64922	1084.6	2.42	66110
1009.2	1.73	56993	1017.6	1.78	57877	1026.0	1.83	58787	1034.4	1.89	59724	1042.8	1.95	60692	1051.2	2.02	61694	1059.6	2.10	62734	1068.0	2.20	63817	1076.4	2.30	64950	1084.8	2.42	66140
1009.4	1.73	57014	1017.8	1.78	57899	1026.2	1.83	58809	1034.6	1.89	59746	1043.0	1.95	60715	1051.4	2.03	61718	1059.8	2.11	62759	1068.2	2.20	63843	1076.6	2.30	64977	1085.0	2.43	66169
1009.6	1.73	57035	1018.0	1.78	57920	1026.4	1.83	58831	1034.8	1.89	59769	1043.2	1.96	60738	1051.6	2.03	61742	1060.0	2.11	62784	1068.4	2.20	63870	1076.8	2.31	65005	1085.2	2.43	66198
1009.8	1.73	57056	1018.2	1.78	57941	1026.6	1.83	58853	1035.0	1.89	59792	1043.4	1.96	60762	1051.8	2.03	61767	1060.2	2.11	62810	1068.6	2.20	63896	1077.0	2.31	65033	1085.4	2.43	66227
1010.0	1.73	57077	1018.4	1.78	57963	1026.8	1.84	58875	1035.2	1.89	59814	1043.6	1.96	60785	1052.0	2.03	61791	1060.4	2.11	62835	1068.8	2.21	63923	1077.2	2.31	65060	1085.6	2.44	66256
1010.2	1.74	57097	1018.6	1.78	57984	1027.0	1.84	58897	1035.4	1.90	59837	1043.8	1.96	60809	1052.2	2.03	61815	1060.6	2.12	62860	1069.0	2.21	63949	1077.4	2.31	65088	1085.8	2.44	66285
1010.4	1.74	57118	1018.8	1.79	58006	1027.2	1.84	58919	1035.6	1.90	59860	1044.0	1.96	60833	1052.4	2.04	61840	1060.8	2.12	62886	1069.2	2.21	63976	1077.6	2.32	65116	1086.0	2.44	66315
1010.6	1.74	57139	1019.0	1.79	58027	1027.4	1.84	58941	1035.8	1.90	59883	1044.2	1.96	60856	1052.6	2.04	61864	1061.0	2.12	62911	1069.4	2.21	64002	1077.8	2.32	65144	1086.2	2.45	66344
1010.8	1.74	57160	1019.2	1.79	58048	1027.6	1.84	58963	1036.0	1.90	59906	1044.4	1.97	60880	1052.8	2.04	61889	1061.2	2.12	62937	1069.6	2.21	64029	1078.0	2.32	65172	1086.4	2.45	66373
1011.0	1.74	57181	1019.4	1.79	58070	1027.8	1.84	58985	1036.2	1.90	59928	1044.6	1.97	60903	1053.0	2.04	61913	1061.4	2.12	62962	1069.8	2.22	64055	1078.2	2.33	65200	1086.6	2.45	66403
1011.2	1.74	57202	1019.6	1.79	58091	1028.0	1.84	59007	1036.4	1.90	59951	1044.8	1.97	60927	1053.2	2.04	61938	1061.6	2.13	62988	1070.0	2.22	64082	1078.4	2.33	65228	1086.8	2.46	66432
1011.4	1.74	57223	1019.8	1.79	58113	1028.2	1.85	59029	1036.6	1.91	59974	1045.0	1.97	60951	1053.4	2.04	61962	1061.8	2.13	63013	1070.2	2.22	64109	1078.6	2.33	65255	1087.0	2.46	66462
1011.6	1.74	57243	1020.0	1.79	58134	1028.4	1.85	59051	1036.8	1.91	59997	1045.2	1.97	60974	1053.6	2.05	61987	1062.0	2.13	63039	1070.4	2.22	64135	1078.8	2.33	65283	1087.2	2.46	66491
1011.8	1.74	57264	1020.2	1.79	58156	1028.6	1.85	59074	1037.0	1.91	60020	1045.4	1.97	60998	1053.8	2.05	62011	1062.2	2.13	63064	1070.6	2.23	64162	1079.0	2.34	65312	1087.4	2.47	66521
1012.0	1.75	57285	1020.4	1.80	58177	1028.8	1.85	59096	1037.2	1.91	60043	1045.6	1.98	61022	1054.0	2.05	62036	1062.4	2.13	63090	1070.8	2.23	64189	1079.2	2.34	65340	1087.6	2.47	66550
1012.2	1.75	57306	1020.6	1.80	58199	1029.0	1.85	59118	1037.4	1.91	60066	1045.8	1.98	61045	1054.2	2.05	62060	1062.6	2.14	63115	1071.0	2.23	64216	1079.4	2.34	65368	1087.8	2.47	66580
1012.4	1.75	57327	1020.8	1.80	58221	1029.2	1.85	59140	1037.6	1.91	60089	1046.0	1.98	61069	1054.4	2.05	62085	1062.8	2.14	63141	1071.2	2.23	64242	1079.6	2.35	65396	1088.0	2.48	66610
1012.6	1.75	57348	1021.0	1.80	58242	1029.4	1.85	59162	1037.8	1.91	60112	1046.2	1.98	61093	1054.6	2.06	62110	1063.0	2.14	63167	1071.4	2.24	64269	1079.8	2.35	65424	1088.2	2.48	66640
1012.8	1.75	57369	1021.2	1.80	58264	1029.6	1.86	59185	1038.0	1.92	60135	1046.4	1.98	61117	1054.8	2.06	62134	1063.2	2.14	63192	1071.6	2.24	64296	1080.0	2.35	65452	1088.4	2.48	66669
1013.0	1.75	57390	1021.4	1.80	58285	1029.8	1.86	59207	1038.2	1.92	60158	1046.6	1.98	61140	1055.0	2.06	62159	1063.4	2.14	63218	1071.8	2.24	64323	1080.2	2.35	65480	1088.6	2.49	66699
1013.2	1.75	57411	1021.6	1.80	58307	1030.0	1.86	59229	1038.4	1.92	60181	1046.8	1.99	61164	1055.2	2.06	62184	1063.6	2.15	63244	1072.0	2.24	64350	1080.4	2.36	65509	1088.8	2.49	66729
1013.4	1.75	57432	1021.8	1.80	58329	1030.2	1.86	59251	1038.6	1.92	60204	1047.0	1.99	61188	1055.4	2.06	62209	1063.8	2.15	63270	1072.2	2.25	64377	1080.6	2.36	65537	1089.0	2.49	66759
1013.6	1.75	57453	1022.0	1.81	58350	1030.4	1.86	59274	1038.8	1.92	60227	1047.2	1.99	61212	1055.6	2.07	62233	1064.0	2.15	63295	1072.4	2.25	64404	1080.8	2.36	65565	1089.2	2.50	66789
1013.8	1.76	57474	1022.2	1.81	58372	1030.6	1.86	59296	1039.0	1.92	60250	1047.4	1.99	61236	1055.8	2.07	62258	1064.2	2.15	63321	1072.6	2.25	64431	1081.0	2.37	65594	1089.4	2.50	66819
1014.0	1.76	57495	1022.4	1.81	58394	1030.8	1.86	59318	1039.2	1.92	60273	1047.6	1.99	61260	1056.0	2.07	62283	1064.4	2.16	63347	1072.8	2.25	64458	1081.2	2.37	65622	1089.6	2.50	66849
1014.2	1.76	57517	1022.6	1.81	58415	1031.0	1.86	59341	1039.4	1.93	60296	1047.8	1.99	61284	1056.2	2.07	62308	1064.6	2.16	63373	1073.0	2.26	64485	1081.4	2.37	65650	1089.8	2.51	66879
1014.4	1.76	57538	1022.8	1.81	58437	1031.2	1.87	59363	1039.6	1.93	60319	1048.0	2.00	61308	1056.4	2.07	62333	1064.8	2.16	63399	1073.2	2.26	64512	1081.6	2.37	65679	1090.0	2.51	66909
1014.6	1.76	57559	1023.0	1.81	58459	1031.4	1.87	59386	1039.8	1.93	60342	1048.2	2.00	61332	1056.6	2.08	62358	1065.0	2.16	63425	1073.4	2.26	64539	1081.8	2.38	65707	1090.2	2.51	66939
1014.8	1.76	57580	1023.2	1.81	58480	1031.6	1.87	59408	1040.0	1.93	60365	1048.4	2.00	61356	1056.8	2.08	62383	1065.2	2.16	63451									

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
1092.0	2.55	67212	1100.4	2.72	68538	1108.8	2.93	69959	1117.2	3.21	71504	1125.6	3.59	73213	1134.0	4.17	75158	1142.4	5.25	77498	1150.8	8.79	80778	1159.2	11.43	87074	1167.6	3.20	90045
1092.2	2.55	67243	1100.6	2.72	68570	1109.0	2.94	69995	1117.4	3.22	71543	1125.8	3.60	73256	1134.2	4.19	75208	1142.6	5.29	77561	1151.0	9.04	80885	1159.4	11.27	87210	1167.8	3.17	90083
1092.4	2.55	67274	1100.8	2.73	68603	1109.2	2.94	70030	1117.6	3.23	71581	1126.0	3.61	73299	1134.4	4.21	75258	1142.8	5.32	77625	1151.2	9.32	80995	1159.6	11.09	87345	1168.0	3.14	90121
1092.6	2.56	67304	1101.0	2.73	68636	1109.4	2.95	70065	1117.8	3.23	71620	1126.2	3.63	73343	1134.6	4.22	75309	1143.0	5.36	77689	1151.4	9.65	81109	1159.8	10.90	87477	1168.2	3.11	90158
1092.8	2.56	67335	1101.2	2.74	68669	1109.6	2.96	70101	1118.0	3.24	71659	1126.4	3.64	73386	1134.8	4.24	75360	1143.2	5.40	77754	1151.6	10.07	81227	1160.0	10.70	87606	1168.4	3.08	90195
1093.0	2.57	67366	1101.4	2.74	68701	1109.8	2.96	70136	1118.2	3.25	71698	1126.6	3.65	73430	1135.0	4.26	75411	1143.4	5.45	77819	1151.8	10.64	81352	1160.2	10.48	87733	1168.6	3.05	90232
1093.2	2.57	67397	1101.6	2.75	68734	1110.0	2.97	70172	1118.4	3.26	71737	1126.8	3.66	73474	1135.2	4.28	75462	1143.6	5.49	77884	1152.0	12.11	81488	1160.4	10.25	87858	1168.8	3.02	90268
1093.4	2.57	67427	1101.8	2.75	68767	1110.2	2.97	70207	1118.6	3.27	71776	1127.0	3.67	73518	1135.4	4.30	75513	1143.8	5.53	77951	1152.2	12.81	81638	1160.6	10.00	87979	1169.0	3.00	90305
1093.6	2.58	67458	1102.0	2.76	68800	1110.4	2.98	70243	1118.8	3.27	71815	1127.2	3.68	73562	1135.6	4.32	75565	1144.0	5.58	78017	1152.4	13.05	81793	1160.8	9.73	88098	1169.2	2.97	90340
1093.8	2.58	67489	1102.2	2.76	68833	1110.6	2.99	70279	1119.0	3.28	71855	1127.4	3.70	73606	1135.8	4.34	75617	1144.2	5.62	78084	1152.6	13.20	81950	1161.0	9.43	88212	1169.4	2.95	90376
1094.0	2.58	67520	1102.4	2.76	68867	1110.8	2.99	70315	1119.2	3.29	71894	1127.6	3.71	73651	1136.0	4.36	75669	1144.4	5.67	78152	1152.8	13.31	82109	1161.2	9.09	88324	1169.6	2.92	90411
1094.2	2.59	67551	1102.6	2.77	68900	1111.0	3.00	70351	1119.4	3.30	71934	1127.8	3.72	73695	1136.2	4.38	75722	1144.6	5.72	78221	1153.0	13.39	82270	1161.4	8.70	88430	1169.8	2.90	90446
1094.4	2.59	67582	1102.8	2.77	68933	1111.2	3.00	70387	1119.6	3.31	71973	1128.0	3.73	73740	1136.4	4.41	75775	1144.8	5.77	78289	1153.2	13.44	82430	1161.6	8.23	88532	1170.0	2.88	90481
1094.6	2.60	67613	1103.0	2.78	68966	1111.4	3.01	70423	1119.8	3.31	72013	1128.2	3.74	73785	1136.6	4.43	75828	1145.0	5.82	78359	1153.4	13.48	82592	1161.8	7.61	88627	1170.2	2.86	90515
1094.8	2.60	67645	1103.2	2.78	69000	1111.6	3.02	70459	1120.0	3.32	72053	1128.4	3.76	73830	1136.8	4.45	75881	1145.2	5.87	78429	1153.6	13.51	82754	1162.0	6.12	88709	1170.4	2.83	90549
1095.0	2.60	67676	1103.4	2.79	69033	1111.8	3.02	70495	1120.2	3.33	72093	1128.6	3.77	73875	1137.0	4.47	75934	1145.4	5.93	78500	1153.8	13.52	82916	1162.2	5.38	88778	1170.6	2.81	90583
1095.2	2.61	67707	1103.6	2.79	69067	1112.0	3.03	70532	1120.4	3.34	72133	1128.8	3.78	73920	1137.2	4.49	75988	1145.6	5.98	78571	1154.0	13.53	83078	1162.4	5.10	88841	1170.8	2.79	90617
1095.4	2.61	67738	1103.8	2.80	69100	1112.2	3.04	70568	1120.6	3.35	72173	1129.0	3.79	73966	1137.4	4.52	76042	1145.8	6.04	78644	1154.2	13.52	83241	1162.6	4.89	88901	1171.0	2.77	90650
1095.6	2.62	67770	1104.0	2.80	69134	1112.4	3.04	70604	1120.8	3.36	72213	1129.2	3.81	74011	1137.6	4.54	76096	1146.0	6.10	78717	1154.4	13.51	83403	1162.8	4.72	88959	1171.2	2.75	90683
1095.8	2.62	67801	1104.2	2.81	69168	1112.6	3.05	70641	1121.0	3.37	72253	1129.4	3.82	74057	1137.8	4.56	76151	1146.2	6.16	78790	1154.6	13.49	83565	1163.0	4.58	89014	1171.4	2.73	90716
1096.0	2.62	67833	1104.4	2.81	69201	1112.8	3.05	70678	1121.2	3.38	72294	1129.6	3.83	74103	1138.0	4.59	76206	1146.4	6.23	78864	1154.8	13.46	83727	1163.2	4.45	89069	1171.6	2.71	90749
1096.2	2.63	67864	1104.6	2.82	69235	1113.0	3.06	70714	1121.4	3.38	72334	1129.8	3.85	74149	1138.2	4.61	76261	1146.6	6.30	78940	1155.0	13.43	83888	1163.4	4.34	89121	1171.8	2.70	90781
1096.4	2.63	67896	1104.8	2.82	69269	1113.2	3.07	70751	1121.6	3.39	72375	1130.0	3.86	74195	1138.4	4.64	76317	1146.8	6.36	79016	1155.2	13.39	84049	1163.6	4.24	89173	1172.0	2.68	90814
1096.6	2.64	67927	1105.0	2.83	69303	1113.4	3.07	70788	1121.8	3.40	72416	1130.2	3.87	74242	1138.6	4.66	76372	1147.0	6.44	79092	1155.4	13.35	84209	1163.8	4.15	89223	1172.2	2.66	90846
1096.8	2.64	67959	1105.2	2.83	69337	1113.6	3.08	70825	1122.0	3.41	72457	1130.4	3.89	74288	1138.8	4.69	76429	1147.2	6.51	79170	1155.6	13.30	84369	1164.0	4.07	89273	1172.4	2.64	90877
1097.0	2.64	67991	1105.4	2.84	69371	1113.8	3.09	70862	1122.2	3.42	72498	1130.6	3.90	74335	1139.0	4.71	76485	1147.4	6.59	79249	1155.8	13.24	84528	1164.2	4.00	89321	1172.6	2.63	90909
1097.2	2.65	68022	1105.6	2.84	69405	1114.0	3.10	70899	1122.4	3.43	72539	1130.8	3.92	74382	1139.2	4.74	76542	1147.6	6.67	79328	1156.0	13.18	84687	1164.4	3.93	89369	1172.8	2.61	90940
1097.4	2.65	68054	1105.8	2.85	69439	1114.2	3.10	70936	1122.6	3.44	72580	1131.0	3.93	74429	1139.4	4.77	76599	1147.8	6.75	79409	1156.2	13.11	84845	1164.6	3.86	89416	1173.0	2.59	90972
1097.6	2.66	68086	1106.0	2.86	69473	1114.4	3.11	70973	1122.8	3.45	72622	1131.2	3.95	74476	1139.6	4.80	76656	1148.0	6.84	79490	1156.4	13.04	85002	1164.8	3.80	89462	1173.2	2.58	91003
1097.8	2.66	68118	1106.2	2.86	69508	1114.6	3.12	71011	1123.0	3.46	72663	1131.4	3.96	74524	1139.8	4.82	76714	1148.2	6.93	79573	1156.6	12.96	85158	1165.0	3.75	89507	1173.4	2.56	91034
1098.0	2.67	68150	1106.4	2.87	69542	1114.8	3.12	71048	1123.2	3.47	72705	1131.6	3.98	74572	1140.0	4.85	76772	1148.4	7.03	79657	1156.8	12.88	85313	1165.2	3.69	89551	1173.6	2.55	91064
1098.2	2.67	68182	1106.6	2.87	69576	1115.0	3.13	71086	1123.4	3.48	72746	1131.8	3.99	74619	1140.2	4.88	76830	1148.6	7.13	79742	1157.0	12.79	85467	1165.4	3.64	89595	1173.8	2.53	91095
1098.4	2.67	68214	1106.8	2.88	69611	1115.2	3.14	71123	1123.6	3.49	72788	1132.0	4.01	74667	1140.4	4.91	76889	1148.8	7.24	79828	1157.2	12.70	85620	1165.6	3.59	89639	1174.0	2.52	91125
1098.6	2.68	68246	1107.0	2.88	69645	1115.4	3.14	71161	1123.8	3.50	72830	1132.2	4.02	74715	1140.6	4.94	76948	1149.0	7.35	79915	1157.4	12.60	85771	1165.8	3.54	89682	1174.2	2.50	91155
1098.8	2.68	68278	1107.2	2.89	69680	1115.6	3.15	71199	1124.0	3.51	72872	1132.4	4.04	74764	1140.8	4.97	77008	1149.2	7.47	80004	1157.6	12.50	85922	1166.0	3.50	89724	1174		

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.			
1176.0	2.38	91419	1184.4	2.00	92514	1192.8	1.76	93457	1201.2	1.59	94300	1209.6	1.47	95069	1218.0	1.37	95782	1226.4	1.29	96451	1234.8	1.22	97082	1243.2	1.16	97682	1251.6	1.11	98255
1176.2	2.37	91447	1184.6	1.99	92538	1193.0	1.75	93478	1201.4	1.59	94319	1209.8	1.46	95087	1218.2	1.37	95799	1226.6	1.29	96466	1235.0	1.22	97097	1243.4	1.16	97696	1251.8	1.11	98268
1176.4	2.36	91476	1184.8	1.98	92562	1193.2	1.75	93499	1201.6	1.59	94338	1210.0	1.46	95104	1218.4	1.36	95815	1226.8	1.28	96482	1235.2	1.22	97111	1243.6	1.16	97710	1252.0	1.11	98281
1176.6	2.35	91504	1185.0	1.98	92586	1193.4	1.75	93520	1201.8	1.58	94357	1210.2	1.46	95122	1218.6	1.36	95832	1227.0	1.28	96497	1235.4	1.22	97126	1243.8	1.16	97724	1252.2	1.11	98295
1176.8	2.34	91532	1185.2	1.97	92609	1193.6	1.74	93541	1202.0	1.58	94376	1210.4	1.46	95139	1218.8	1.36	95848	1227.2	1.28	96512	1235.6	1.21	97140	1244.0	1.16	97737	1252.4	1.11	98308
1177.0	2.33	91560	1185.4	1.96	92633	1193.8	1.74	93562	1202.2	1.58	94395	1210.6	1.45	95157	1219.0	1.36	95864	1227.4	1.28	96528	1235.8	1.21	97155	1244.2	1.16	97751	1252.6	1.11	98321
1177.2	2.31	91588	1185.6	1.96	92657	1194.0	1.73	93583	1202.4	1.57	94414	1210.8	1.45	95174	1219.2	1.36	95880	1227.6	1.28	96543	1236.0	1.21	97169	1244.4	1.15	97765	1252.8	1.11	98334
1177.4	2.30	91616	1185.8	1.95	92680	1194.2	1.73	93604	1202.6	1.57	94432	1211.0	1.45	95192	1219.4	1.35	95897	1227.8	1.27	96558	1236.2	1.21	97184	1244.6	1.15	97779	1253.0	1.10	98348
1177.6	2.29	91643	1186.0	1.95	92703	1194.4	1.72	93624	1202.8	1.57	94451	1211.2	1.45	95209	1219.6	1.35	95913	1228.0	1.27	96574	1236.4	1.21	97198	1244.8	1.15	97793	1253.2	1.10	98361
1177.8	2.28	91671	1186.2	1.94	92727	1194.6	1.72	93645	1203.0	1.56	94470	1211.4	1.44	95226	1219.8	1.35	95929	1228.2	1.27	96589	1236.6	1.21	97213	1245.0	1.15	97807	1253.4	1.10	98374
1178.0	2.27	91698	1186.4	1.93	92750	1194.8	1.71	93666	1203.2	1.56	94489	1211.6	1.44	95244	1220.0	1.35	95945	1228.4	1.27	96604	1236.8	1.21	97227	1245.2	1.15	97820	1253.6	1.10	98387
1178.2	2.26	91725	1186.6	1.93	92773	1195.0	1.71	93686	1203.4	1.56	94507	1211.8	1.44	95261	1220.2	1.35	95961	1228.6	1.27	96619	1237.0	1.20	97242	1245.4	1.15	97834	1253.8	1.10	98401
1178.4	2.25	91752	1186.8	1.92	92796	1195.2	1.71	93707	1203.6	1.55	94526	1212.0	1.44	95278	1220.4	1.34	95978	1228.8	1.27	96635	1237.2	1.20	97256	1245.6	1.15	97848	1254.0	1.10	98414
1178.6	2.24	91779	1187.0	1.91	92819	1195.4	1.70	93727	1203.8	1.55	94545	1212.2	1.43	95295	1220.6	1.34	95994	1229.0	1.26	96650	1237.4	1.20	97271	1245.8	1.15	97862	1254.2	1.10	98427
1178.8	2.23	91806	1187.2	1.91	92842	1195.6	1.70	93747	1204.0	1.55	94563	1212.4	1.43	95313	1220.8	1.34	96010	1229.2	1.26	96665	1237.6	1.20	97285	1246.0	1.14	97876	1254.4	1.10	98440
1179.0	2.22	91833	1187.4	1.90	92865	1195.8	1.69	93768	1204.2	1.54	94582	1212.6	1.43	95330	1221.0	1.34	96026	1229.4	1.26	96680	1237.8	1.20	97300	1246.2	1.14	97889	1254.6	1.10	98453
1179.2	2.21	91859	1187.6	1.90	92888	1196.0	1.69	93788	1204.4	1.54	94600	1212.8	1.43	95347	1221.2	1.34	96042	1229.6	1.26	96695	1238.0	1.20	97314	1246.4	1.14	97903	1254.8	1.10	98466
1179.4	2.20	91886	1187.8	1.89	92910	1196.2	1.69	93808	1204.6	1.54	94619	1213.0	1.42	95364	1221.4	1.33	96058	1229.8	1.26	96710	1238.2	1.20	97328	1246.6	1.14	97917	1255.0	1.09	98480
1179.6	2.19	91912	1188.0	1.88	92933	1196.4	1.68	93829	1204.8	1.53	94637	1213.2	1.42	95381	1221.6	1.33	96074	1230.0	1.26	96725	1238.4	1.19	97343	1246.8	1.14	97930	1255.2	1.09	98493
1179.8	2.18	91938	1188.2	1.88	92956	1196.6	1.68	93849	1205.0	1.53	94656	1213.4	1.42	95398	1221.8	1.33	96090	1230.2	1.26	96741	1238.6	1.19	97357	1247.0	1.14	97944	1255.4	1.09	98506
1180.0	2.17	91964	1188.4	1.87	92978	1196.8	1.67	93869	1205.2	1.53	94674	1213.6	1.42	95415	1222.0	1.33	96106	1230.4	1.25	96756	1238.8	1.19	97371	1247.2	1.14	97958	1255.6	1.09	98519
1180.2	2.16	91990	1188.6	1.87	93001	1197.0	1.67	93889	1205.4	1.53	94692	1213.8	1.41	95432	1222.2	1.33	96122	1230.6	1.25	96771	1239.0	1.19	97385	1247.4	1.14	97971	1255.8	1.09	98532
1180.4	2.16	92016	1188.8	1.86	93023	1197.2	1.67	93909	1205.6	1.52	94711	1214.0	1.41	95449	1222.4	1.32	96138	1230.8	1.25	96786	1239.2	1.19	97400	1247.6	1.14	97985	1256.0	1.09	98545
1180.6	2.15	92042	1189.0	1.86	93045	1197.4	1.66	93929	1205.8	1.52	94729	1214.2	1.41	95466	1222.6	1.32	96153	1231.0	1.25	96801	1239.4	1.19	97414	1247.8	1.13	97999	1256.2	1.09	98558
1180.8	2.14	92068	1189.2	1.85	93067	1197.6	1.66	93949	1206.0	1.52	94747	1214.4	1.41	95483	1222.8	1.32	96169	1231.2	1.25	96816	1239.6	1.19	97428	1248.0	1.13	98012	1256.4	1.09	98571
1181.0	2.13	92094	1189.4	1.84	93090	1197.8	1.65	93969	1206.2	1.51	94765	1214.6	1.41	95500	1223.0	1.32	96185	1231.4	1.25	96831	1239.8	1.18	97442	1248.2	1.13	98026	1256.6	1.09	98584
1181.2	2.12	92119	1189.6	1.84	93112	1198.0	1.65	93988	1206.4	1.51	94783	1214.8	1.40	95517	1223.2	1.32	96201	1231.6	1.24	96845	1240.0	1.18	97457	1248.4	1.13	98039	1256.8	1.08	98597
1181.4	2.11	92144	1189.8	1.83	93134	1198.2	1.65	94008	1206.6	1.51	94801	1215.0	1.40	95533	1223.4	1.31	96217	1231.8	1.24	96860	1240.2	1.18	97471	1248.6	1.13	98053	1257.0	1.08	98610
1181.6	2.10	92170	1190.0	1.83	93156	1198.4	1.64	94028	1206.8	1.51	94820	1215.2	1.40	95550	1223.6	1.31	96232	1232.0	1.24	96875	1240.4	1.18	97485	1248.8	1.13	98066	1257.2	1.08	98623
1181.8	2.10	92195	1190.2	1.82	93178	1198.6	1.64	94048	1207.0	1.50	94838	1215.4	1.40	95567	1223.8	1.31	96248	1232.2	1.24	96890	1240.6	1.18	97499	1249.0	1.13	98080	1257.4	1.08	98636
1182.0	2.09	92220	1190.4	1.82	93200	1198.8	1.63	94067	1207.2	1.50	94856	1215.6	1.39	95584	1224.0	1.31	96264	1232.4	1.24	96905	1240.8	1.18	97513	1249.2	1.13	98093	1257.6	1.08	98649
1182.2	2.08	92245	1190.6	1.81	93221	1199.0	1.63	94087	1207.4	1.50	94874	1215.8	1.39	95600	1224.2	1.31	96280	1232.6	1.24	96920	1241.0	1.18	97527	1249.4	1.12	98107	1257.8	1.08	98662
1182.4	2.07	92270	1190.8	1.81	93243	1199.2	1.63	94106	1207.6	1.49	94892	1216.0	1.39	95617	1224.4	1.30	96295	1232.8	1.23	96935	1241.2	1.17	97542	1249.6	1.12	98120	1258.0	1.08	98675
1182.6	2.06	92295	1191.0	1.80	93265	1199.4	1.62	94126	1207.8	1.49	94909	1216.2	1.39	95634	1224.6	1.30	96311	1233.0	1.23	96950	1241.4	1.17	97556	1249.8	1.12	98134	1258.2	1.08	98688
1182.8	2.06	92320	1191.2	1.80	93286	1199.6	1.62	94145	1208.0	1.49	94927	1216.4	1.38	95650	1224.8	1.30	96327	1233.2	1.23	96964	1241.6	1.17	97570	1250.0	1.12	98147	1258.4	1.08	98701
1183.0																													

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.
1260.0	1.07	98804	1268.4	1.03	99333	1276.8	1.00	99843	1285.2	0.96	#####	1293.6	0.94	#####	1302.0	0.91	#####	1310.4	0.89	#####	1318.8	0.86	#####	1327.2	0.84	#####
1260.2	1.07	98817	1268.6	1.03	99345	1277.0	0.99	99855	1285.4	0.96	#####	1293.8	0.94	#####	1302.2	0.91	#####	1310.6	0.89	#####	1319.0	0.86	#####	1327.4	0.84	#####
1260.4	1.07	98830	1268.8	1.03	99357	1277.2	0.99	99867	1285.6	0.96	#####	1294.0	0.93	#####	1302.4	0.91	#####	1310.8	0.88	#####	1319.2	0.86	#####	1327.6	0.84	#####
1260.6	1.07	98842	1269.0	1.03	99370	1277.4	0.99	99879	1285.8	0.96	#####	1294.2	0.93	#####	1302.6	0.91	#####	1311.0	0.88	#####	1319.4	0.86	#####	1327.8	0.84	#####
1260.8	1.06	98855	1269.2	1.03	99382	1277.6	0.99	99891	1286.0	0.96	#####	1294.4	0.93	#####	1302.8	0.91	#####	1311.2	0.88	#####	1319.6	0.86	#####	1328.0	0.84	#####
1261.0	1.06	98868	1269.4	1.03	99394	1277.8	0.99	99902	1286.2	0.96	#####	1294.6	0.93	#####	1303.0	0.91	#####	1311.4	0.88	#####	1319.8	0.86	#####	1328.2	0.84	#####
1261.2	1.06	98881	1269.6	1.02	99407	1278.0	0.99	99914	1286.4	0.96	#####	1294.8	0.93	#####	1303.2	0.91	#####	1311.6	0.88	#####	1320.0	0.86	#####	1328.4	0.84	#####
1261.4	1.06	98893	1269.8	1.02	99419	1278.2	0.99	99926	1286.6	0.96	#####	1295.0	0.93	#####	1303.4	0.91	#####	1311.8	0.88	#####	1320.2	0.86	#####	1328.6	0.84	#####
1261.6	1.06	98906	1270.0	1.02	99431	1278.4	0.99	99938	1286.8	0.96	#####	1295.2	0.93	#####	1303.6	0.91	#####	1312.0	0.88	#####	1320.4	0.86	#####	1328.8	0.84	#####
1261.8	1.06	98919	1270.2	1.02	99443	1278.6	0.99	99950	1287.0	0.96	#####	1295.4	0.93	#####	1303.8	0.90	#####	1312.2	0.88	#####	1320.6	0.86	#####	1329.0	0.84	#####
1262.0	1.06	98932	1270.4	1.02	99456	1278.8	0.99	99962	1287.2	0.96	#####	1295.6	0.93	#####	1304.0	0.90	#####	1312.4	0.88	#####	1320.8	0.86	#####	1329.2	0.84	#####
1262.2	1.06	98944	1270.6	1.02	99468	1279.0	0.99	99974	1287.4	0.96	#####	1295.8	0.93	#####	1304.2	0.90	#####	1312.6	0.88	#####	1321.0	0.86	#####	1329.4	0.84	#####
1262.4	1.06	98957	1270.8	1.02	99480	1279.2	0.99	99985	1287.6	0.96	#####	1296.0	0.93	#####	1304.4	0.90	#####	1312.8	0.88	#####	1321.2	0.86	#####	1329.6	0.84	#####
1262.6	1.06	98970	1271.0	1.02	99492	1279.4	0.99	99997	1287.8	0.96	#####	1296.2	0.93	#####	1304.6	0.90	#####	1313.0	0.88	#####	1321.4	0.86	#####	1329.8	0.84	#####
1262.8	1.06	98982	1271.2	1.02	99505	1279.6	0.98	#####	1288.0	0.95	#####	1296.4	0.93	#####	1304.8	0.90	#####	1313.2	0.88	#####	1321.6	0.86	#####	1330.0	0.84	#####
1263.0	1.05	98995	1271.4	1.02	99517	1279.8	0.98	#####	1288.2	0.95	#####	1296.6	0.93	#####	1305.0	0.90	#####	1313.4	0.88	#####	1321.8	0.86	#####	1330.2	0.84	#####
1263.2	1.05	99008	1271.6	1.02	99529	1280.0	0.98	#####	1288.4	0.95	#####	1296.8	0.93	#####	1305.2	0.90	#####	1313.6	0.88	#####	1322.0	0.86	#####	1330.4	0.84	#####
1263.4	1.05	99020	1271.8	1.02	99541	1280.2	0.98	#####	1288.6	0.95	#####	1297.0	0.92	#####	1305.4	0.90	#####	1313.8	0.88	#####	1322.2	0.86	#####	1330.6	0.84	#####
1263.6	1.05	99033	1272.0	1.01	99553	1280.4	0.98	#####	1288.8	0.95	#####	1297.2	0.92	#####	1305.6	0.90	#####	1314.0	0.88	#####	1322.4	0.86	#####	1330.8	0.84	#####
1263.8	1.05	99046	1272.2	1.01	99566	1280.6	0.98	#####	1289.0	0.95	#####	1297.4	0.92	#####	1305.8	0.90	#####	1314.2	0.88	#####	1322.6	0.85	#####	1331.0	0.84	#####
1264.0	1.05	99058	1272.4	1.01	99578	1280.8	0.98	#####	1289.2	0.95	#####	1297.6	0.92	#####	1306.0	0.90	#####	1314.4	0.88	#####	1322.8	0.85	#####	1331.2	0.83	#####
1264.2	1.05	99071	1272.6	1.01	99590	1281.0	0.98	#####	1289.4	0.95	#####	1297.8	0.92	#####	1306.2	0.90	#####	1314.6	0.87	#####	1323.0	0.85	#####	1331.4	0.83	#####
1264.4	1.05	99083	1272.8	1.01	99602	1281.2	0.98	#####	1289.6	0.95	#####	1298.0	0.92	#####	1306.4	0.90	#####	1314.8	0.87	#####	1323.2	0.85	#####	1331.6	0.83	#####
1264.6	1.05	99096	1273.0	1.01	99614	1281.4	0.98	#####	1289.8	0.95	#####	1298.2	0.92	#####	1306.6	0.90	#####	1315.0	0.87	#####	1323.4	0.85	#####	1331.8	0.83	#####
1264.8	1.05	99108	1273.2	1.01	99626	1281.6	0.98	#####	1290.0	0.95	#####	1298.4	0.92	#####	1306.8	0.90	#####	1315.2	0.87	#####	1323.6	0.85	#####	1332.0	0.83	#####
1265.0	1.05	99121	1273.4	1.01	99638	1281.8	0.98	#####	1290.2	0.95	#####	1298.6	0.92	#####	1307.0	0.90	#####	1315.4	0.87	#####	1323.8	0.85	#####	1332.2	0.83	#####
1265.2	1.04	99134	1273.6	1.01	99651	1282.0	0.98	#####	1290.4	0.95	#####	1298.8	0.92	#####	1307.2	0.89	#####	1315.6	0.87	#####	1324.0	0.85	#####	1332.4	0.83	#####
1265.4	1.04	99146	1273.8	1.01	99663	1282.2	0.97	#####	1290.6	0.95	#####	1299.0	0.92	#####	1307.4	0.89	#####	1315.8	0.87	#####	1324.2	0.85	#####	1332.6	0.83	#####
1265.6	1.04	99159	1274.0	1.01	99675	1282.4	0.97	#####	1290.8	0.94	#####	1299.2	0.92	#####	1307.6	0.89	#####	1316.0	0.87	#####	1324.4	0.85	#####	1332.8	0.83	#####
1265.8	1.04	99171	1274.2	1.01	99687	1282.6	0.97	#####	1291.0	0.94	#####	1299.4	0.92	#####	1307.8	0.89	#####	1316.2	0.87	#####	1324.6	0.85	#####	1333.0	0.83	#####
1266.0	1.04	99184	1274.4	1.00	99699	1282.8	0.97	#####	1291.2	0.94	#####	1299.6	0.92	#####	1308.0	0.89	#####	1316.4	0.87	#####	1324.8	0.85	#####	1333.2	0.83	#####
1266.2	1.04	99196	1274.6	1.00	99711	1283.0	0.97	#####	1291.4	0.94	#####	1299.8	0.92	#####	1308.2	0.89	#####	1316.6	0.87	#####	1325.0	0.85	#####	1333.4	0.83	#####
1266.4	1.04	99208	1274.8	1.00	99723	1283.2	0.97	#####	1291.6	0.94	#####	1300.0	0.92	#####	1308.4	0.89	#####	1316.8	0.87	#####	1325.2	0.85	#####	1333.6	0.83	#####
1266.6	1.04	99221	1275.0	1.00	99735	1283.4	0.97	#####	1291.8	0.94	#####	1300.2	0.92	#####	1308.6	0.89	#####	1317.0	0.87	#####	1325.4	0.85	#####	1333.8	0.83	#####
1266.8	1.04	99233	1275.2	1.00	99747	1283.6	0.97	#####	1292.0	0.94	#####	1300.4	0.91	#####	1308.8	0.89	#####	1317.2	0.87	#####	1325.6	0.85	#####	1334.0	0.83	#####
1267.0	1.04	99246	1275.4	1.00	99759	1283.8	0.97	#####	1292.2	0.94	#####	1300.6	0.91	#####	1309.0	0.89	#####	1317.4	0.87	#####	1325.8	0.85	#####	1334.2	0.83	#####
1267.2	1.04	99258	1275.6	1.00	99771	1284.0	0.97	#####	1292.4	0.94	#####	1300.8	0.91	#####	1309.2	0.89	#####	1317.6	0.87	#####	1326.0	0.85	#####	1334.4	0.83	#####
1267.4	1.03	99271	1275.8	1.00	99783	1284.2	0.97	#####	1292.6	0.94	#####	1301.0	0.91	#####	1309.4	0.89	#####	1317.8	0.87	#####	1326.2	0.85	#####	1334.6	0.83	#####
1267.6	1.03	99283	1276.0	1.00	99795	1284.4	0.97	#####	1292.8	0.94	#####	1301.2	0.91	#####	1309.6	0.89	#####	1318.0	0.87	#####	1326.4	0.85	#####	1334.8	0.83	#####
1267.8	1.03	99295	1276.2	1.00	99807	1284.6	0.97	#####	1293.0	0.94	#####	1301.4	0.91	#####	1309.8	0.89	#####	1318.2	0.87	#####	1326.6	0.85	#####	1335.0	0.83	#####
1268.0	1.03	99308	1276.4	1.00	99819	1284.8	0.97	#####	1293.2	0.94	#####	1301.6	0.91	#####	1310.0	0.89	#####	1318.4	0.87	#####	1326.8	0.84	#####	1335.2	0.83	#####
1268.2	1.03	99320	1276.6	1.00	99831	1285.0	0.96	#####	1293.4	0.94	#####	1301.8	0.91	#####	1310.2	0.89	#####	1318.6	0.86	#####	1327.0	0.84	#####	1335.4	0.83	#####

Indicates times above allowable 50-year Q of 5.14 cfs for project site.

Note: Data generated using the Los Angeles County's HydroCalc v0.3.0-Beta

HYDROGRAPH AND HYETOGRAPH DATA - TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Indicates times above allowable 50-year Q of 5.14 cfs for project site.

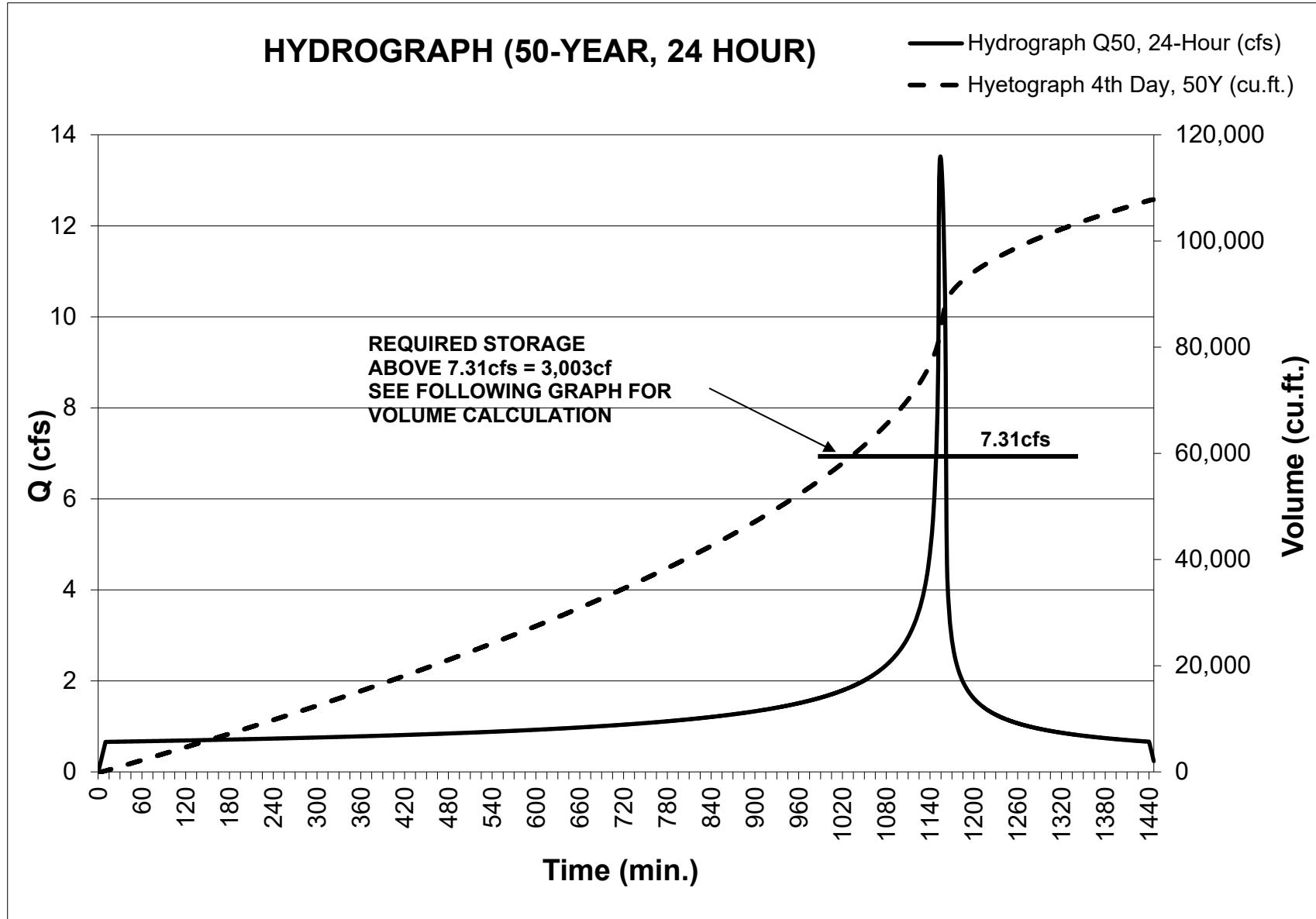
Note: Data generated using the Los Angeles County's HydroCalc v0.3.0-Beta

HYDROGRAPH AND HYETOGRAPH DATA -TORRANCE COMMERCE CENTER (50-YEAR, 24-HOUR)

Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.	Time min.	Q cfs	Vol. cu.ft.
1428.0	0.68	#####	1436.4	0.67	#####	1444.8	0.34	#####
1428.2	0.68	#####	1436.6	0.67	#####	1445.0	0.33	#####
1428.4	0.68	#####	1436.8	0.67	#####	1445.2	0.32	#####
1428.6	0.68	#####	1437.0	0.67	#####	1445.4	0.30	#####
1428.8	0.68	#####	1437.2	0.67	#####	1445.6	0.29	#####
1429.0	0.68	#####	1437.4	0.67	#####	1445.8	0.28	#####
1429.2	0.68	#####	1437.6	0.67	#####	1446.0	0.26	#####
1429.4	0.68	#####	1437.8	0.67	#####	1446.2	0.25	#####
1429.6	0.68	#####	1438.0	0.67	#####	1446.4	0.24	#####
1429.8	0.68	#####	1438.2	0.67	#####	1446.6	0.22	#####
1430.0	0.68	#####	1438.4	0.67	#####	1446.8	0.21	#####
1430.2	0.68	#####	1438.6	0.67	#####	1447.0	0.20	#####
1430.4	0.68	#####	1438.8	0.67	#####	1447.2	0.18	#####
1430.6	0.68	#####	1439.0	0.67	#####	1447.4	0.17	#####
1430.8	0.67	#####	1439.2	0.67	#####	1447.6	0.16	#####
1431.0	0.67	#####	1439.4	0.67	#####	1447.8	0.15	#####
1431.2	0.67	#####	1439.6	0.66	#####	1448.0	0.13	#####
1431.4	0.67	#####	1439.8	0.66	#####	1448.2	0.12	#####
1431.6	0.67	#####	1440.0	0.66	#####	1448.4	0.11	#####
1431.8	0.67	#####	1440.2	0.65	#####	1448.6	0.09	#####
1432.0	0.67	#####	1440.4	0.64	#####	1448.8	0.08	#####
1432.2	0.67	#####	1440.6	0.62	#####	1449.0	0.07	#####
1432.4	0.67	#####	1440.8	0.61	#####	1449.2	0.05	#####
1432.6	0.67	#####	1441.0	0.60	#####	1449.4	0.04	#####
1432.8	0.67	#####	1441.2	0.58	#####	1449.6	0.03	#####
1433.0	0.67	#####	1441.4	0.57	#####	1449.8	0.01	#####
1433.2	0.67	#####	1441.6	0.56	#####	1450.0	0.00	#####
1433.4	0.67	#####	1441.8	0.54	#####	0.0	0.00	0
1433.6	0.67	#####	1442.0	0.53	#####	0.0	0.00	0
1433.8	0.67	#####	1442.2	0.52	#####	0.0	0.00	0
1434.0	0.67	#####	1442.4	0.50	#####	0.0	0.00	0
1434.2	0.67	#####	1442.6	0.49	#####	0.0	0.00	0
1434.4	0.67	#####	1442.8	0.48	#####	0.0	0.00	0
1434.6	0.67	#####	1443.0	0.46	#####	0.0	0.00	0
1434.8	0.67	#####	1443.2	0.45	#####	0.0	0.00	0
1435.0	0.67	#####	1443.4	0.44	#####	0.0	0.00	0
1435.2	0.67	#####	1443.6	0.42	#####	0.0	0.00	0
1435.4	0.67	#####	1443.8	0.41	#####	0.0	0.00	0
1435.6	0.67	#####	1444.0	0.40	#####	0.0	0.00	0
1435.8	0.67	#####	1444.2	0.38	#####	0.0	0.00	0
1436.0	0.67	#####	1444.4	0.37	#####	0.0	0.00	0
1436.2	0.67	#####	1444.6	0.36	#####	0.0	0.00	0

Indicates times above allowable 50-year Q of 5.14 cfs for project site.

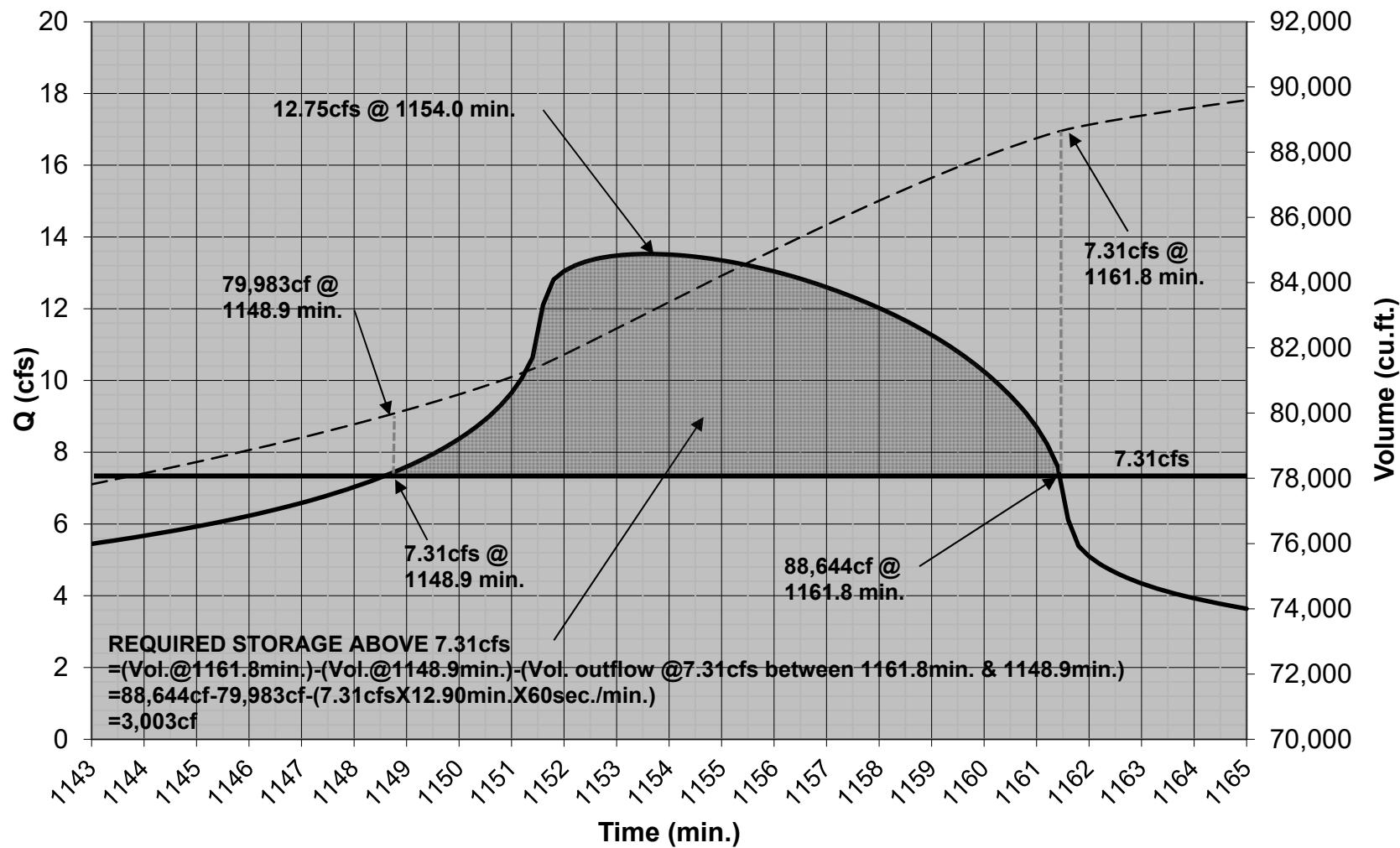
Note: Data generated using the Los Angeles County's HydroCalc v0.3.0-Beta



Note: Graph generated using the Los Angeles County's HydroCalc v0.3.0-Beta

HYDROGRAPH ABOVE ALLOWABLE Q

— Hydrograph Q50, 24-Hour (cfs)
 - - - Hyetograph 4th Day, 50Y (cu. Ft.)



Note: Graph generated using the Los Angeles County's HydroCalc v0.3.0-Beta



SECTION 5.2

HYDRAULIC CALCULATIONS **INLET SIZING (50-YEAR)**

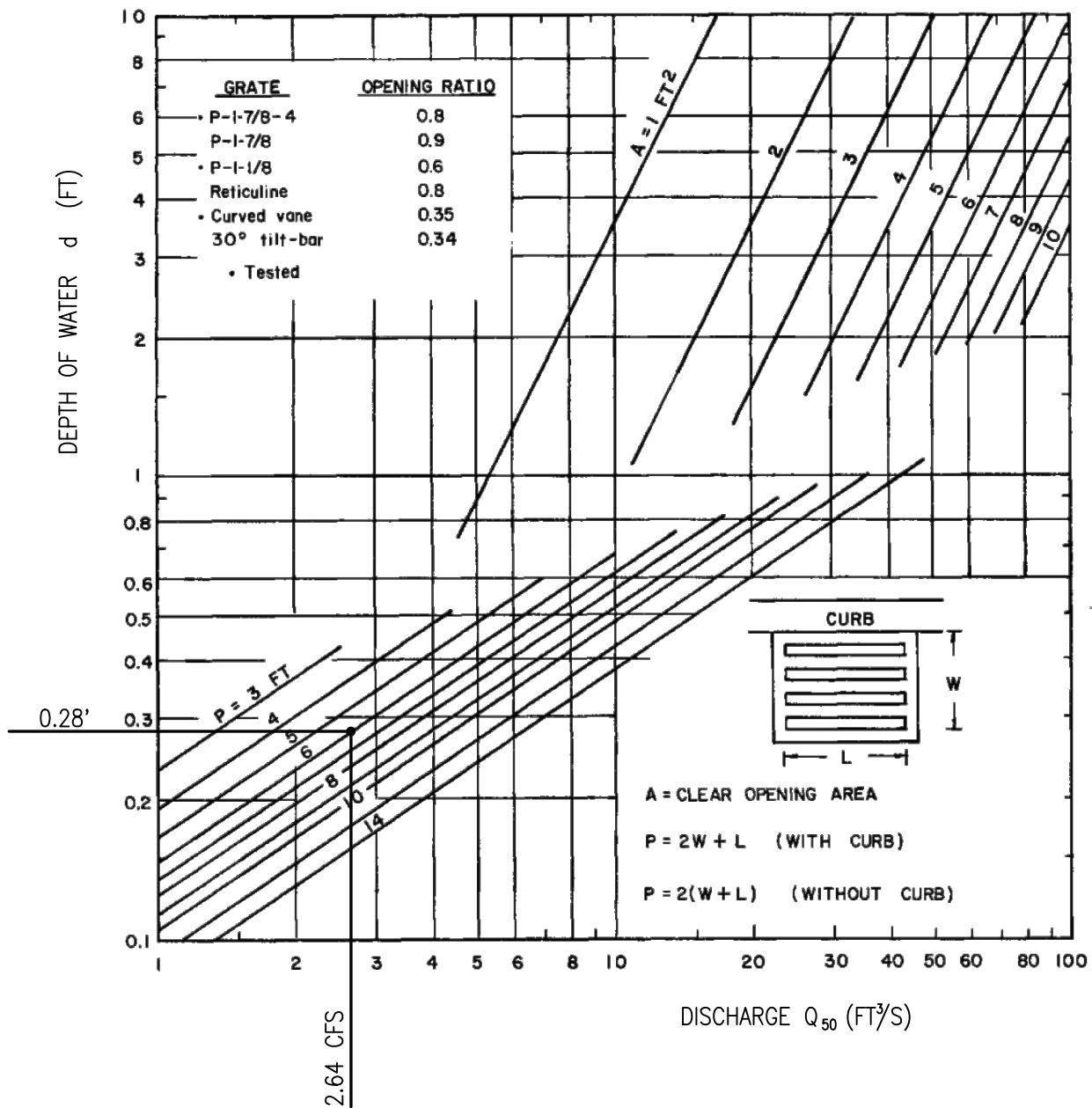
24"X24" GRATED INLET FOR AREAS A-1, A-3 AND A-6

$Q_{50} = 1.32 \text{ CFS (A-1), } 1.27 \text{ CFS (A-3) AND } 1.08 \text{ CFS (A-6)}$

$$P = 2W+L = 6'$$

$Q \times 2 = 1.32 \text{ CFS} \times 2 = 2.64 \text{ CFS (CLOGGING ASSUMPTION)}$

RESULT: 0.28' WHICH IS LESS THAN THE TOP OF A 6-INCH CURB AND THE NEAREST SPILL OVER DEPTH OF $\pm 0.55'$ HIGHER, THEREFORE OK



2552 WHITE RD., SUITE B, IRVINE, CA 92614
(949) 660-0110 FAX: 660-0418

**GRATE INLET CAPACITY
IN SUMP CONDITION**

SOURCE: U.S. DEPARTMENT OF TRANSPORTATION, HEC-22, CHART 9B

2-12"X12" GRATED INLET FOR AREA A-2, A-4*, A-5* AND A-7*

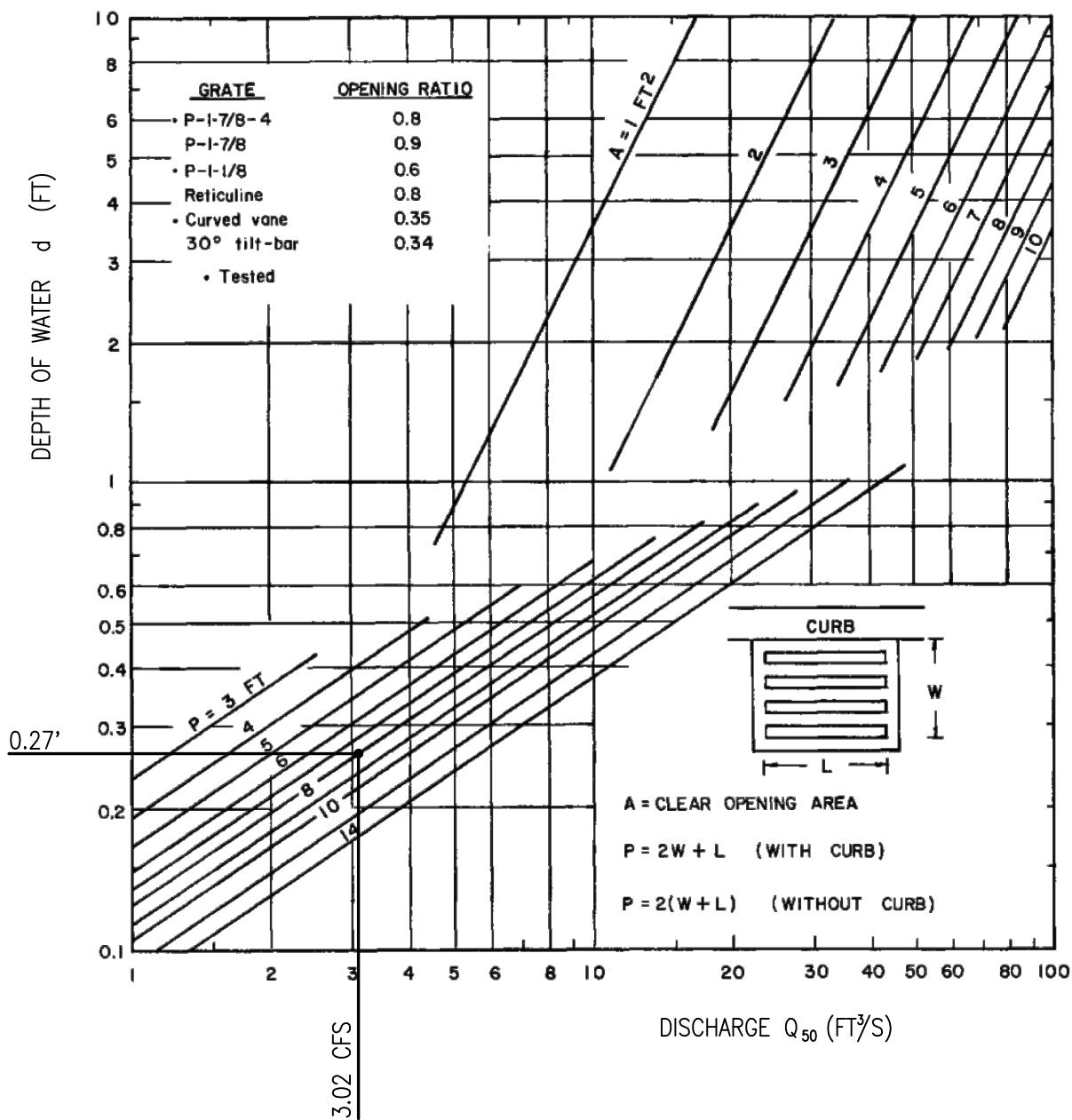
$Q_{50} = 1.45 \text{ CFS (A-2), } 1.32 \text{ CFS (A-4), } 1.51 \text{ CFS (A-5) AND } 1.40 \text{ CFS (A-7)}$

$$P = 2*2(W+L) = 8'$$

$Q \times 2 = 1.51 \text{ CFS } \times 2 = 3.02 \text{ CFS (CLOGGING ASSUMPTION)}$

RESULT: 0.27' WHICH IS LESS THAN SPILL OVER DEPTH $\pm 1.0'$ HIGHER, THEREFORE OK

*A-4, A-5 AND A-7 HAVE THREE (3) INLETS, SO DEPTH WILL BE LOWER



NOTE: TABLE ASSUMES NO CLOGGING



ALDEN &
ASSOCIATES

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(949) 660-0110 FAX: 660-0418

GRATE INLET CAPACITY
IN SUMP CONDITION

SOURCE: U.S. DEPARTMENT OF TRANSPORTATION, HEC-22, CHART 9B

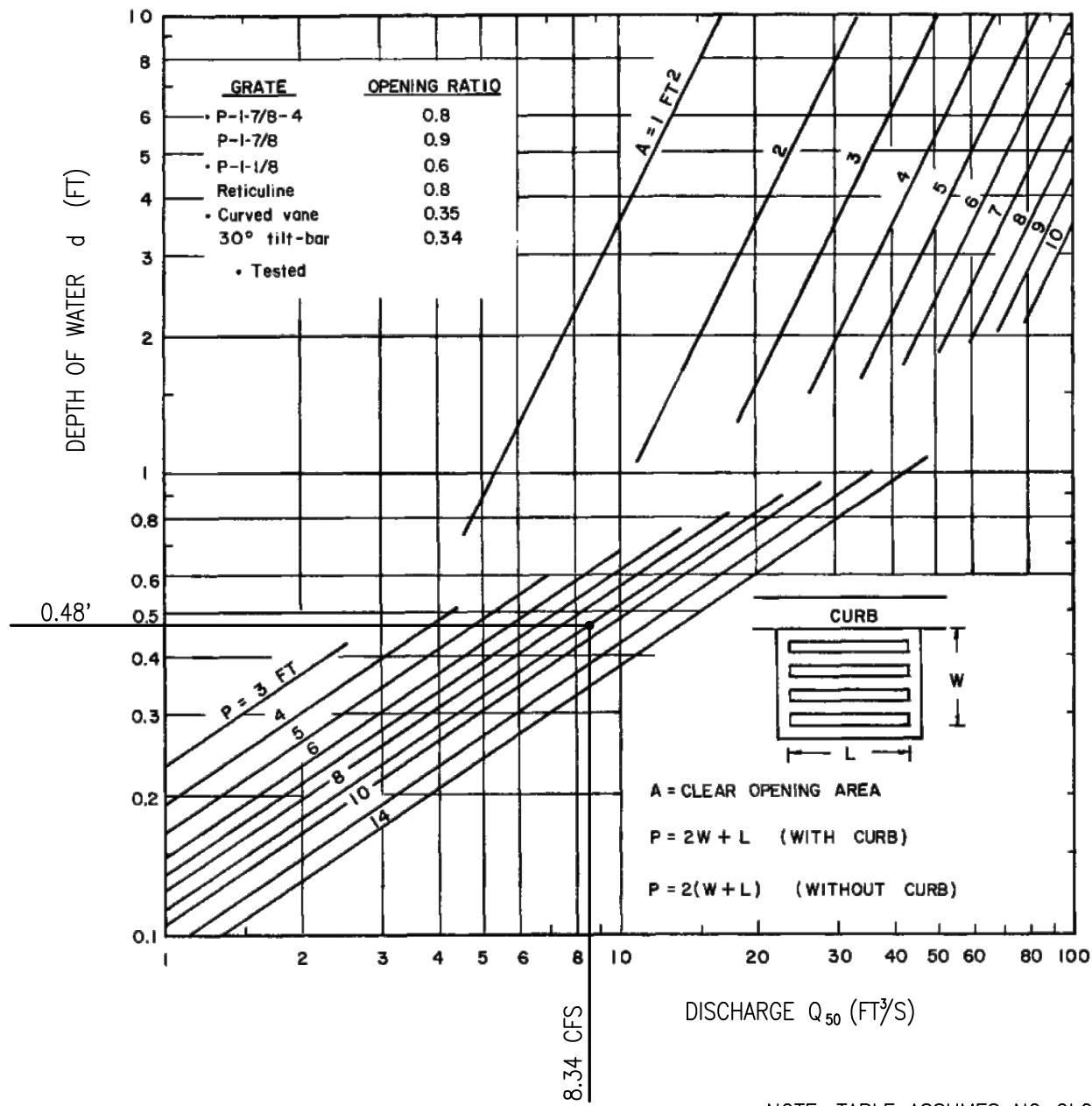
36"X36" GRATED INLET FOR AREA A-8

$$Q_{50} = 4.17 \text{ CFS}$$

$$P = 2W+L = 9'$$

$Q \times 2 = 4.17 \text{ CFS} \times 2 = 8.34 \text{ CFS}$ (CLOGGING ASSUMPTION)

RESULT: 0.48' WHICH IS LESS THAN THE TOP OF A 6-INCH CURB AND THE NEAREST SPILL OVER DEPTH OF $\pm 0.54'$ HIGHER, THEREFORE OK



NOTE: TABLE ASSUMES NO CLOGGING



ALDEN &
ASSOCIATES

2552 WHITE RD., SUITE B, IRVINE, CA 92614
(949) 660-0110 FAX: 660-0418

GRATE INLET CAPACITY
IN SUMP CONDITION

SOURCE: U.S. DEPARTMENT OF TRANSPORTATION, HEC-22, CHART 9B



SECTION 5.3

HYDRAULIC - WSPG **10-YEAR**

T1 EX SD JOIN TO NEW SD

0

T2 2089-940-001

T3 CITY OF TORRANCE 205TH STREET

SO	1000.000	55.300	1		58.300			
R	1002.060	55.310	1	.013			.000	.000 0
JX	1005.980	55.330	1	2	.013	7.310	56.320	-90.0 .000
R	1499.990	57.300	1		.013			.000 .000 0
JX	1505.490	57.440	1	3	.013	10.000	57.400	30.0 .000
R	1511.910	57.450	1		.013			.000 -54.000 0
R	1526.430	57.440	1		.013			-36.975 .000 0
R	1555.120	57.480	1		.013			88.855 .000 0
R	1687.780	57.800	1		.013			.000 .000 0
R	1758.460	57.940	1		.013			-90.000 .000 0
R	2026.460	58.480	1		.013			.000 .000 0
JX	2032.710	58.490	4	4	.013	28.000	58.620	30.0 -15.915
R	2068.260	58.600	4		.013			-90.527 .000 0
R	2267.230	59.000	4		.013			.000 .000 0
SH	2267.230	59.000	4				59.000	
CD	1	4	1	.000	3.500	.000	.000	.00
CD	2	4	1	.000	1.500	.000	.000	.00
CD	3	4	1	.000	2.000	.000	.000	.00
CD	4	4	1	.000	2.750	.000	.000	.00
Q				41.000	.0			

FILE: 2089sdre.wsw

W S P G W - EDIT LISTING - Version 14.07
WATER SURFACE PROFILE - CHANNEL DEFINITION LISTING

Date:12-12-2023 Time: 9: 9:22

PAGE 1

CD	1	4	1	3.500
CD	2	4	1	1.500
CD	3	4	1	2.000
CD	4	4	1	2.750

W S P G W

PAGE NO 1

HEADING LINE NO 1 IS =

WATER SURFACE PROFILE - TITLE CARD LISTING

HEADING LINE NO. 2 IS

EX SD JOIN TO NEW SD

HEADING LINE NO. 3 FG

CITY OF TORRANCE, 905TH STREET

W S P G W

PAGE NO 2

WATER SURFACE PROFILE - ELEMENT CARD LISTING

U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H	
	1758.460	57.940	1	.013	44.996	-90.000	.000	0	
W S P G W									
WATER SURFACE PROFILE - ELEMENT CARD LISTING									
ELEMENT NO	11 IS A REACH	*	*	*					
	U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
		2026.460	58.480	1	.013	.000	.000	.000	0
ELEMENT NO	12 IS A JUNCTION	*	*	*	*	*	*	*	
	U/S DATA	STATION	INVERT	SECT	LAT-1 LAT-2	N Q3	Q4	INVERT-3 INVERT-4 PHI 3 PHI 4	
		2032.710	58.490	4 4	0	.013	28.000 .000	58.620 .000	30.000 .000
								RADIUS ANGLE	
								22.501 -15.915	
ELEMENT NO	13 IS A REACH	*	*	*					
	U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
		2068.260	58.600	4	.013	22.500	-90.527	.000	0
ELEMENT NO	14 IS A REACH	*	*	*					
	U/S DATA	STATION	INVERT	SECT	N	RADIUS	ANGLE	ANG PT	MAN H
		2267.230	59.000	4	.013	.000	.000	.000	0
ELEMENT NO	15 IS A SYSTEM HEADWORKS		*		*				
	U/S DATA	STATION	INVERT	SECT					
		2267.230	59.000	4					
								W S ELEV	
								59.000	

WATER SURFACE PROFILE LISTING

Date: 12-12-2023 Time: 9: 9:34

EX SD JOIN TO NEW SD

2089-940-001

CITY OF TORRANCE 205TH STREET

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Base Wt	or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1000.000	55.300	3.000	58.300	86.31	9.83	1.50	59.80	.00	2.89	2.45	3.500	.000	.00	1 .0
2.060	.0049						.0068	.01	3.00	.92	3.50	.013	.00	.00 PIPE
1002.060	55.310	3.023	58.333	86.31	9.77	1.48	59.82	.00	2.89	2.40	3.500	.000	.00	1 .0
JUNCT STR	.0051						.0065	.03	3.02	.90		.013	.00	.00 PIPE
1005.980	55.330	3.683	59.013	79.00	8.21	1.05	60.06	.00	2.78	.00	3.500	.000	.00	1 .0
494.010	.0040						.0062	3.05	3.68	.00	3.50	.013	.00	.00 PIPE
1499.990	57.300	4.759	62.059	79.00	8.21	1.05	63.11	.00	2.78	.00	3.500	.000	.00	1 .0
JUNCT STR	.0255						.0054	.03	4.76	.00		.013	.00	.00 PIPE
1505.490	57.440	5.057	62.497	69.00	7.17	.80	63.30	.00	2.60	.00	3.500	.000	.00	1 .0
6.420	.0016						.0047	.03	5.06	.00	3.50	.013	.00	.00 PIPE
1511.910	57.450	5.219	62.669	69.00	7.17	.80	63.47	.00	2.60	.00	3.500	.000	.00	1 .0
14.520	-.0007						.0047	.07	.00	.00	.00	.013	.00	.00 PIPE
1526.430	57.440	5.400	62.840	69.00	7.17	.80	63.64	.00	2.60	.00	3.500	.000	.00	1 .0
28.690	.0014						.0047	.13	.00	.00	3.50	.013	.00	.00 PIPE
1555.120	57.480	5.653	63.133	69.00	7.17	.80	63.93	.00	2.60	.00	3.500	.000	.00	1 .0
132.660	.0024						.0047	.62	5.65	.00	3.50	.013	.00	.00 PIPE
1687.780	57.800	5.957	63.757	69.00	7.17	.80	64.56	.00	2.60	.00	3.500	.000	.00	1 .0
70.680	.0020						.0047	.33	.00	.00	3.50	.013	.00	.00 PIPE

WATER SURFACE PROFILE LISTING

Date: 12-12-2023 Time: 9: 9:34

EX SD JOIN TO NEW SD

2089-940-001

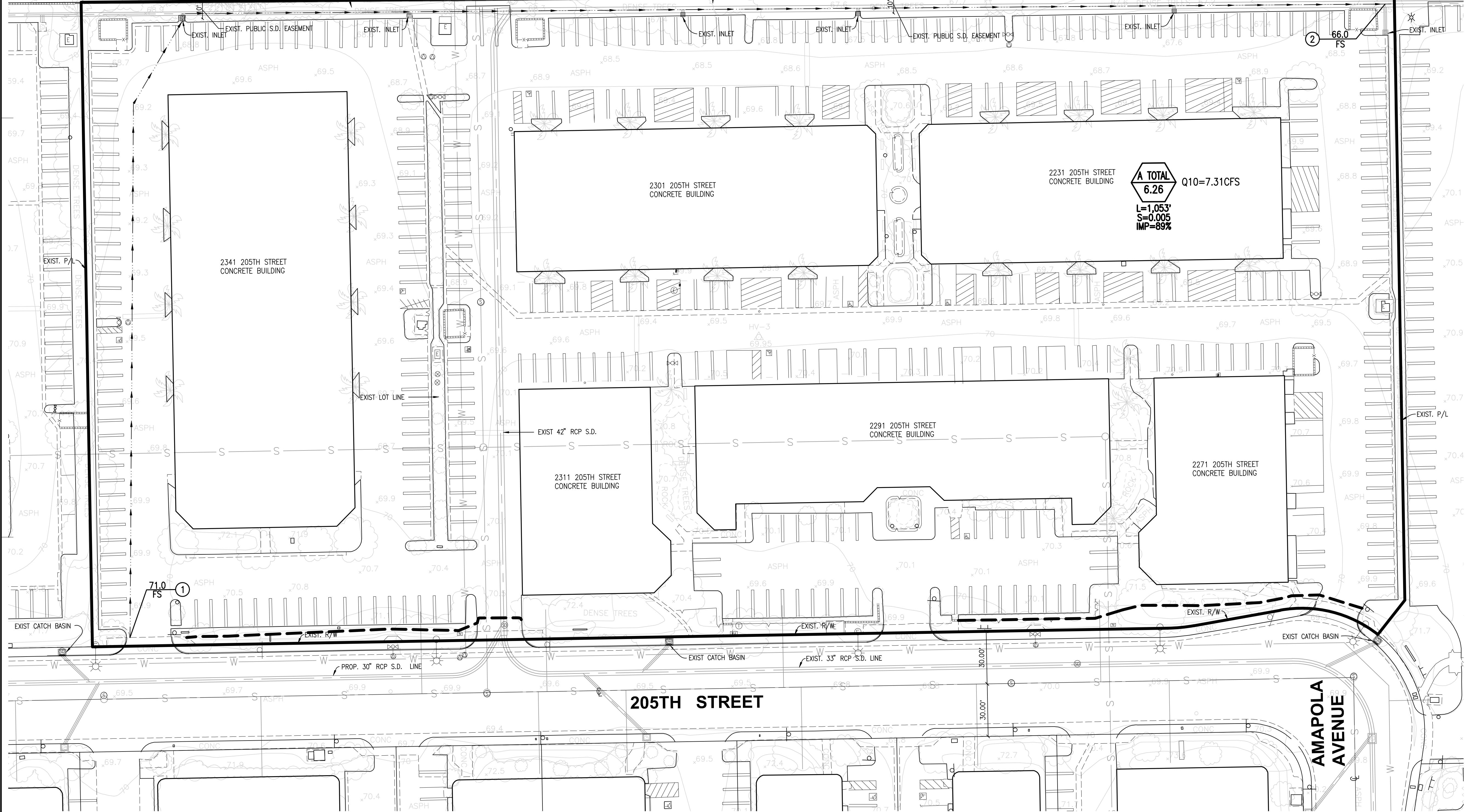
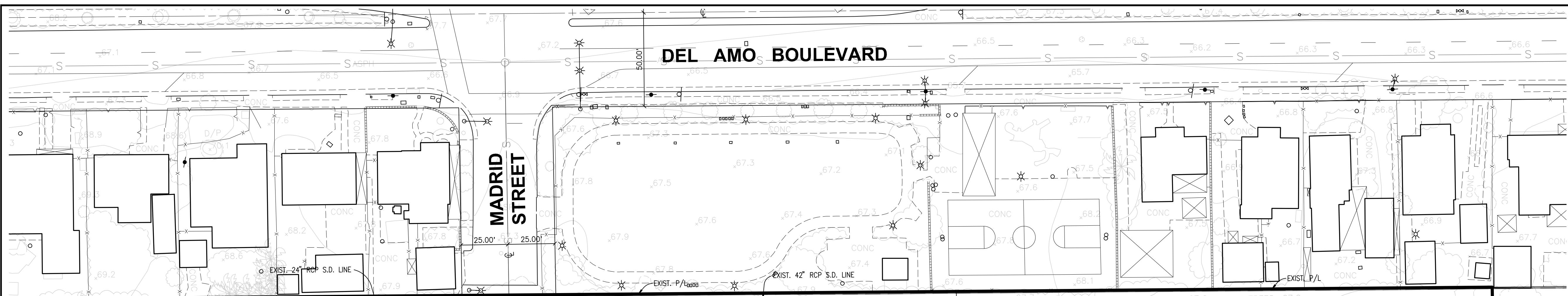
CITY OF TORRANCE 205TH STREET

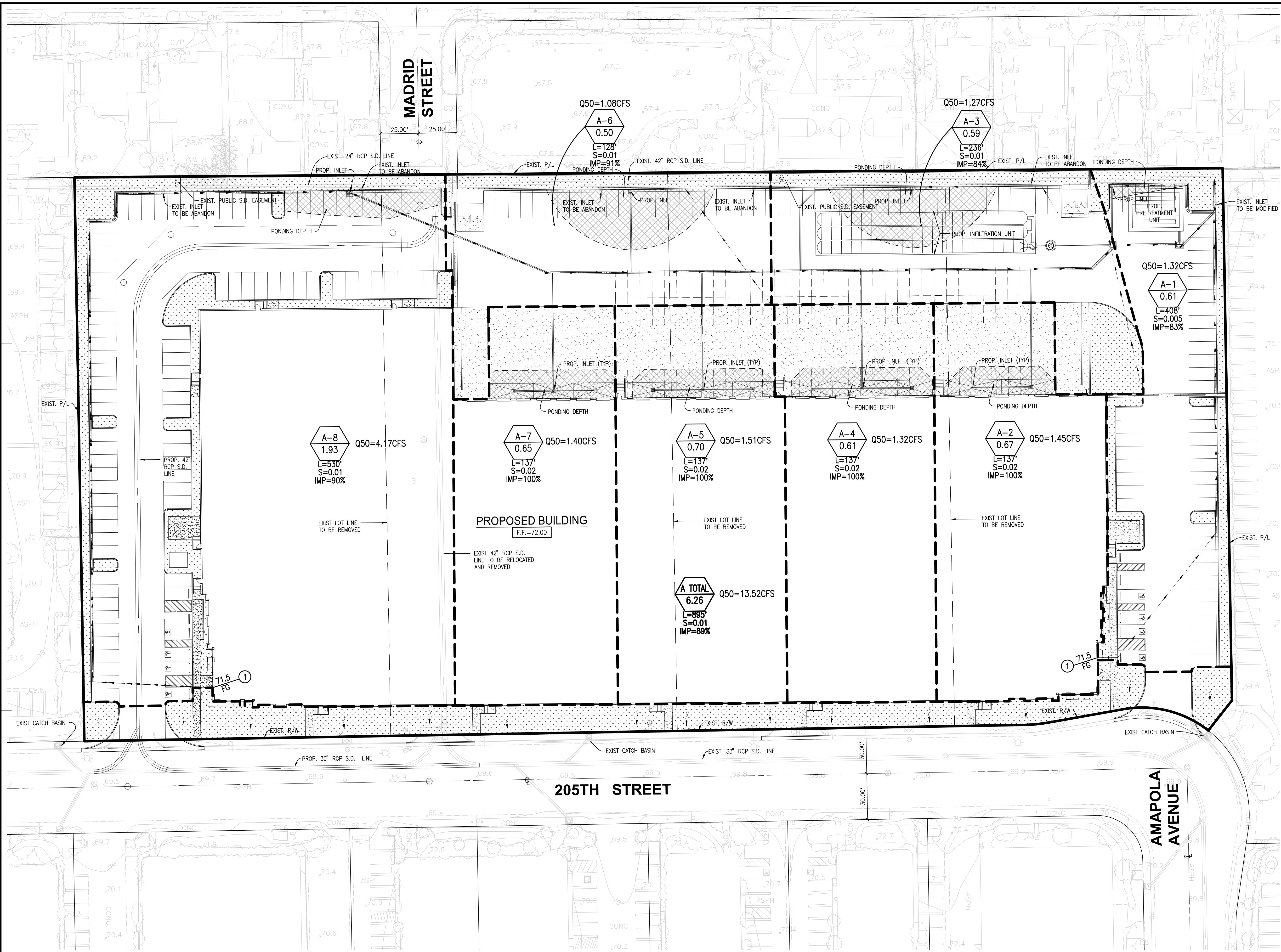
Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT or I.D.	Base Wt	No Wth ZL	Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1758.460	57.940	6.310	64.250	69.00	7.17	.80	65.05	.00	2.60	.00	3.500	.000	.00	1 .0
268.000	.0020						.0047	1.26	6.31	.00	3.50	.013	.00	00 PIPE
2026.460	58.480	7.030	65.510	69.00	7.17	.80	66.31	.00	2.60	.00	3.500	.000	.00	1 .0
JUNCT STR	.0016						.0054	.03	.00	.00		.013	.00	00 PIPE
2032.710	58.490	7.443	65.933	41.00	6.90	.74	66.67	.00	2.13	.00	2.750	.000	.00	1 .0
35.550	.0031						.0060	.21	.00	.00	2.75	.013	.00	00 PIPE
2068.260	58.600	7.695	66.295	41.00	6.90	.74	67.03	.00	2.13	.00	2.750	.000	.00	1 .0
198.970	.0020						.0060	1.20	7.69	.00	2.75	.013	.00	00 PIPE
2267.230	59.000	8.491	67.491	41.00	6.90	.74	68.23	.00	2.13	.00	2.750	.000	.00	1 .0

WATER SURFACE ELEVATION IS +/- 2.0' BELOW FINISH SURFACE; THEREFORE OK.



DRAINAGE MAPS







FEMA MAP



EXISTING STORM DRAIN PLAN MTD 1062

GENERAL NOTES

14. A PERMIT SHALL BE OBTAINED FROM THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT PRIOR TO COMMENCING ANY CONSTRUCTION WORK UNDER THIS CONTRACT. CONTACT THE DISTRICT BY TELEPHONE AT 226-4208 TO OBTAIN AN INSPECTION AND CONNECTION PERMIT AND TO MAKE DEPOSIT FOR CONSTRUCTION INSPECTION BY THE DISTRICT.
15. THE CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FLOOD CONTROL DISTRICT, CONTRACT ADMINISTRATION DIVISION BY TELEPHONE AT 226-4206 AT LEAST 24 HOURS BEFORE STARTING ANY WORK UNDER THIS CONTRACT.
1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION," LATEST EDITION AND SUPPLEMENTS THERETO, AS WRITTEN AND PROMULGATED BY THE SOUTHERN CALIFORNIA CHAPTERS OF THE A.P.W.A., A.G.C.C. JOINT COOPERATIVE COMMITTEE, AND TO THE SATISFACTION OF THE CITY ENGINEER.
2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND PROTECT ALL STRUCTURES, INCLUDING SUBSTRUCTURES, SHOWN HEREON. THE CONTRACTOR SHALL BEAR THE ENTIRE COST OF REPAIRING OR REPLACING ANY OF SAID STRUCTURES DAMAGED OR DESTROYED DURING PROSECUTION OF THE WORK. ALL LOCATIONS SHOWN HEREON FOR UTILITY LINES HAVE BEEN TAKEN FROM AVAILABLE RECORDS AND THEIR COMPLETENESS OR CORRECTNESS IS IN NO WAY GUARANTEED. SEE NOTE 13 RE: TAWD.
3. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC UTILITY COMPANIES AND OWNERS OF PRIVATE FACILITIES WITHIN THE AREA OF CONSTRUCTION AT LEAST 2 WORKING DAYS IN ADVANCE OF PERFORMING ANY WORK WITHIN SAID AREA.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE CITY ENGINEER BEFORE COMMENCING WORK.
5. ASBESTOS CEMENT PIPE MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE PER LACFCD STANDARD DRAWING 2-D431 AND LACFCD SPECIFICATIONS. ALL RCP AND AC STORM DRAIN PIPE SHALL BE BEDDED IN ACCORDANCE WITH LACFCD STANDARD DRAWING 2-D177, CASE III.
6. TRENCH BACKFILL SHALL BE COMPAKTED TO A RELATIVE DENSITY OF 95% IN THE UPPER 3 FEET AND 90% EQUAL TO THE RELATIVE DENSITY OF THE UNDISTURBED SOIL ADJACENT TO THE TRENCH, WHICHEVER IS LESS, BELOW A DEPTH OF THE UPPER 3 FEET.
7. TRENCH RESURFACING SHALL BE EXISTING BASE + 1" AND EXISTING PAVEMENT + 1" IN EXISTING PAVED AREAS SUBJECT TO REVIEW AND APPROVAL BY THE ENGINEER.
8. IN CASE OF CONFLICT BETWEEN A CONNECTOR PIPE AND AN EXISTING UNDERGROUND LINE, THE CONNECTOR PIPE MAY BE REALIGNED OVER OR UNDER THE CONFLICTING LINE. CONNECTOR PIPE GAGES SHALL SWAY POSITIVELY TOWARD THE MAIN LINE, AND WHERE GRADE BREAKS EXCEED FIVE DEGREES, A CONCRETE COLLAR PER LACFCD STANDARD DRAWING 2-D393 SHALL BE CONSTRUCTED. "D" LOAD STRENGTHS OF THE REALIGNED PIPE SHALL CONFORM TO LACFCD STANDARD DRAWINGS 2-D213.1 AND/OR 2-D431.
10. CAUTION: REVIEW APPROVED CONSTRUCTION PLAN. IF CONSTRUCTION REQUIRED WORKERS AND/OR EQUIPMENT TO BE WITHIN 6 FEET AND CRANES OR HOISTING DEVICES TO BE WITHIN 10 FEET OF OVERHEAD ELECTRIC LINES CALL SO. CALIF. EDISON CO. (213) 644-9441/639-5471 EXT 810 OR 832 IMMEDIATELY.
11. REFER TO PLAN NO. ST-735 FOR STREET AND SS-300 FOR SEWER CONSTRUCTION FOR TRACT NO. 39796. ALSO ST-753 & SS-306.
12. SHORING DETAILS & SPECIFICATIONS TO BE PROVIDED BY CONTRACTOR & APPROVED BY CAL-OSHA AND CITY ENGINEER PRIOR TO ISSUANCE OF PERMIT. (SHEET NOS. 2,3,4 AND 10 ONLY.)
13. CONTRACTOR SHALL VERIFY ELEVATION OF PROPOSED TORRANCE MUNICIPAL WATER DEP'T. (TMWD) 12" WATER MAIN IF SAID MAIN IS CONSTRUCTED PRIOR TO OR CONCURRENTLY WITH THIS STORM DRAIN. ANY CONFLICTS SHALL BE RESOLVED PRIOR TO CONSTRUCTION OF THE STORM DRAIN.

LIST OF STANDARD DRAWINGS

LOS ANGELES CO. FLOOD CONTROL DISTRICT:	TITLE	DRWG. NO.
CATCH BASIN NO. 1	2-D 160	
CATCH BASIN MANHOLE FRAME & COVER	2-D 156	
CATCH BASIN PROTECTION BAR	2-D 175	
CATCH BASIN REINFORCEMENT IN WALLS & INVERT	2-D 172	
CATCH BASIN REINFORCEMENT AROUND MANHOLE	2-D 157	
CATCH BASIN CONNECTIONS FOR PIPES 12 IN. THRU 72 IN.	2-D 224	
CATCH BASIN SIDE OPENING DETAIL	2-L 232	
LOCAL DEPRESSION NO. 4	2-D 415	
JUNCTION STRUCTURE NO. 2	2-D 112	
JUNCTION STRUCTURE NO. 4	2-D 193	
MANHOLE NO. 1 (PIPES, 33" OR SMALLER)	2-D 102	
MANHOLE 24" FRAME & COVER	2-D 472	
MANHOLE SHAFT	2-D 107	
TRANSITION STRUCTURE NO. 3	2-D 188	
STANDARD DROP STEP	2-D 96	
STANDARD A-615 REINFORCING BARS	2-D 171	
PIPE SUPPORT ACROSS TRENCHES	2-D 173.1 to .3	
PIPE BEDDING IN TRENCHES	2-D 177	
MANHOLE NO. 2 (PIPES, 36" OR LARGER)	2-D 184	
TRANS STRUCTURE NO. 1	2-D 235	
CATCH BASIN NO. 2	2-D 162	
CONCRETE COLLAR PROTECTION FOR SEWERS	2-D 343	
CITY OF TORRANCE: TYPICAL STREET SECTION	S-2	
CURB & GUTTER	S-4	
L.A. Co. Road Dept.: STD. R.C. BOX CULVERT NO. 1	SG-01	
PIPE CONNECTION TO EXIST.	2-D190	

LEGEND

-----	EXISTING	(100.00)	EXISTING ELEVATIONS
- - - - -	FUTURE	100.00	PROPOSED ELEVATIONS
— — — — —	PROPOSED		
W W W W	UNDERGROUND UTILITIES		

NOTE: INLET FACILITIES NOT LOCATED WITHIN PUBLIC STREETS ARE NOT TO BE MAINTAINED BY THE CITY OF TORRANCE.

▲ NOTE: OUTLET STRUCTURE AT CONNECTION TO MAIN CHANNEL (DETAIL C ON SHEET II) MAY BE REVISED TO MATCH PROPOSED MAIN CHANNEL RECONSTRUCTION (PENDING). DO NOT CONSTRUCT THIS OUTLET STRUCTURE WITHOUT SEPARATE APPROVAL FROM CITY ENGINEER.

▲ NOTE: LINE A STATIONING SOUTH OF M.H. NO 4 PER DETAIL C, SHEET II SHOULD BE REDUCED .42' TO REFLECT "AS-BUILT" S.D. BY DEVELOPER.

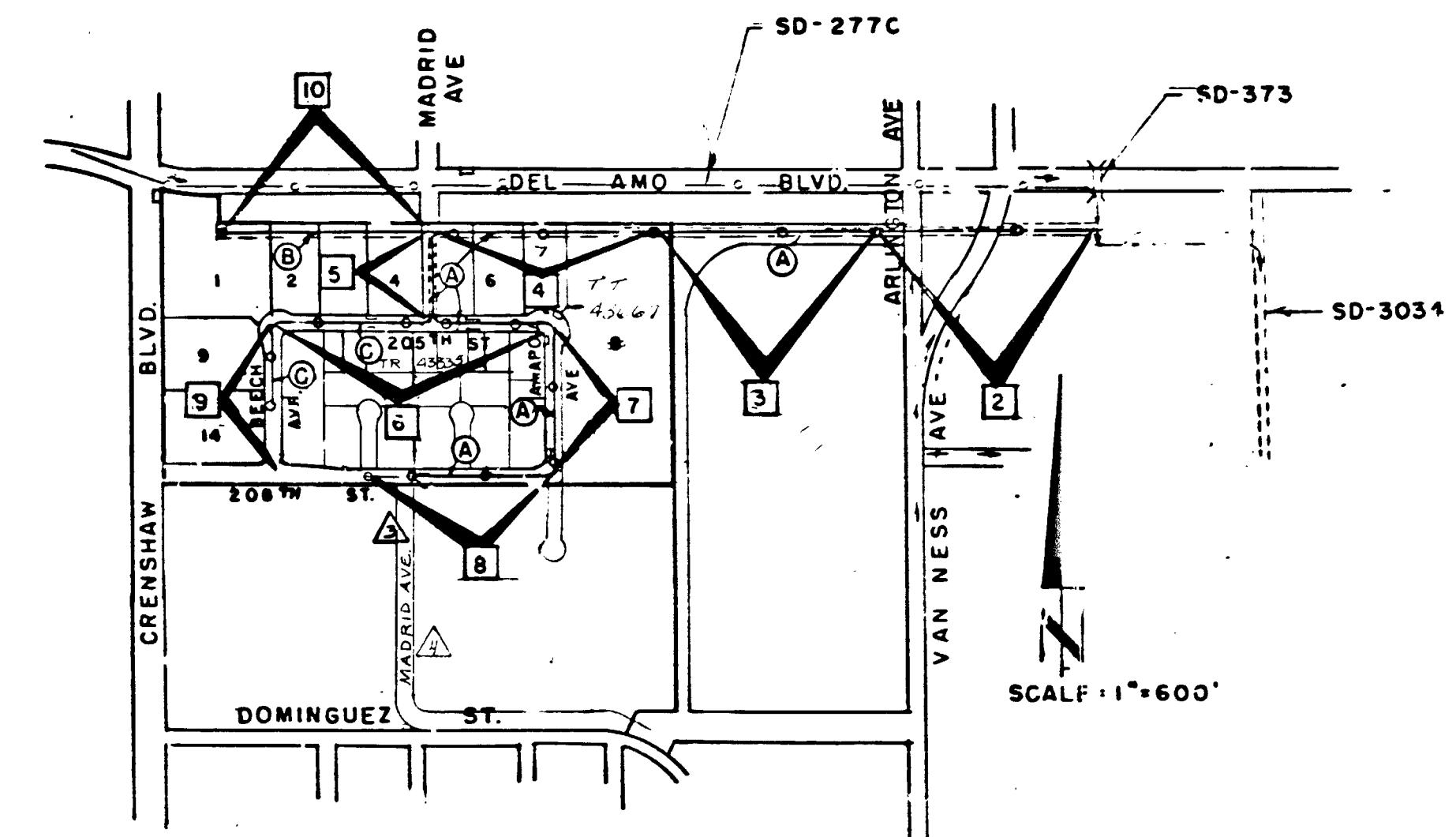
STORM DRAINS

TRACT NO. 39796

IN

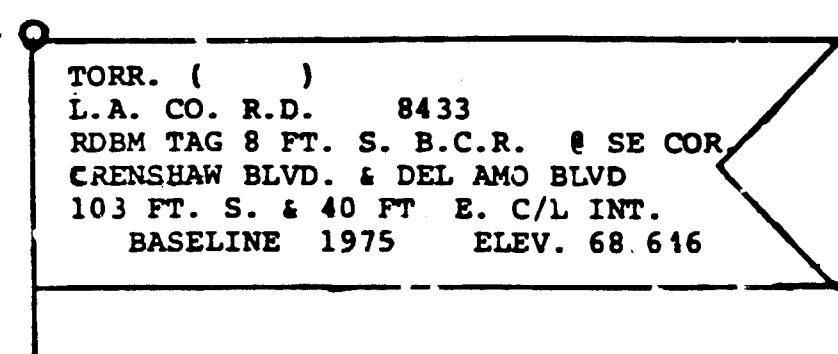
EASEMENT SOUTH OF DEL AMO BOULEVARD
BETWEEN EXISTING CHANNEL EAST OF VAN NESS
AVENUE AND 285 FEET ± EAST OF CRENSHAW BOULEVARD
AND
EASEMENT EAST OF CRENSHAW BOULEVARD AT
MADRID AVENUE (PRODUCED)

AND
205TH STREET BETWEEN BEECH AVE. AND AMAPOLA AVE.
AND
BEECH AVENUE SOUTH OF 205TH STREET
AND
AMAPOLA AVENUE BETWEEN 205TH ST. AND 208TH ST.
AND
208TH STREET WEST OF AMAPOLA AVENUE



VICINITY MAP

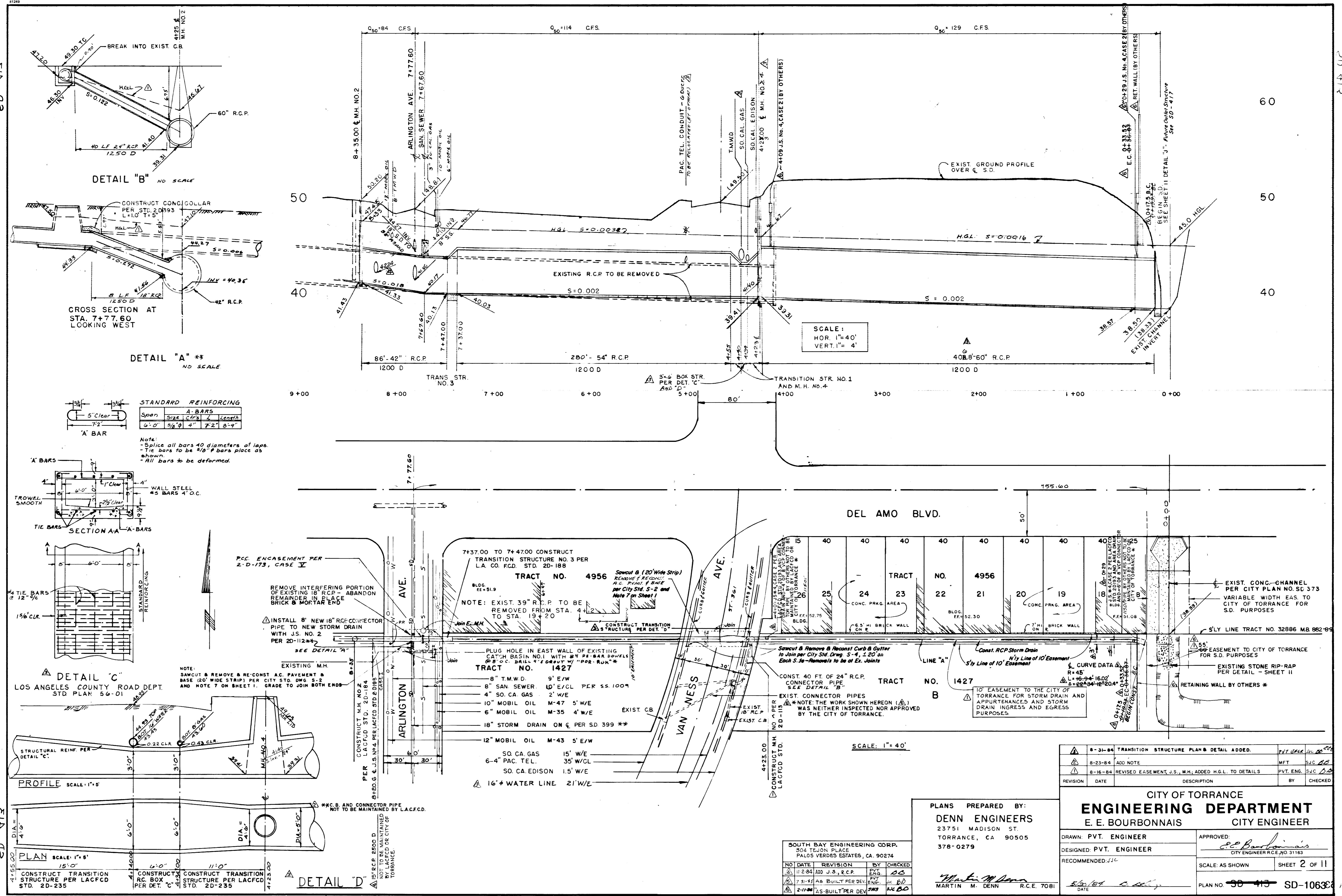
BENCH MARK



M.T.D. 1062

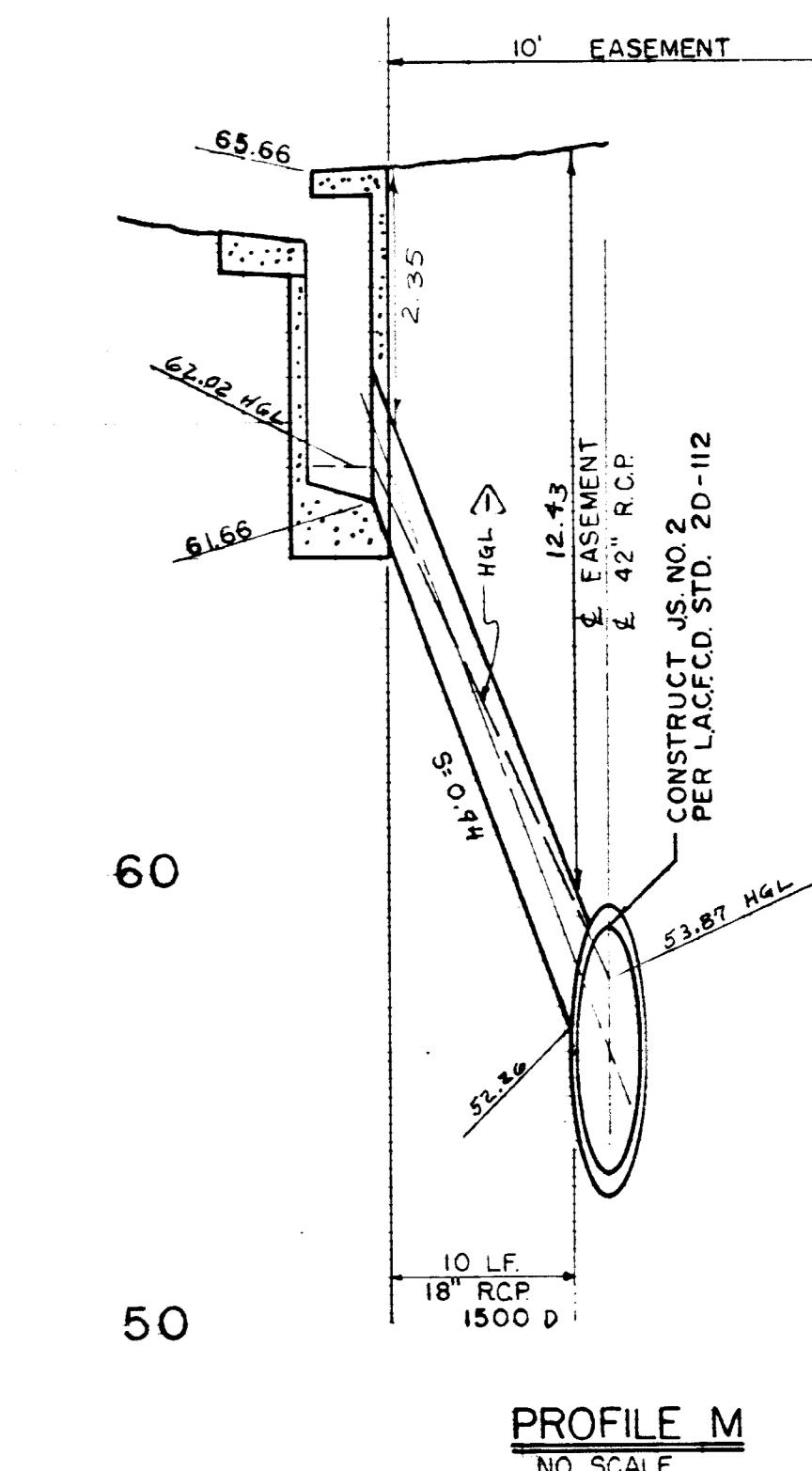
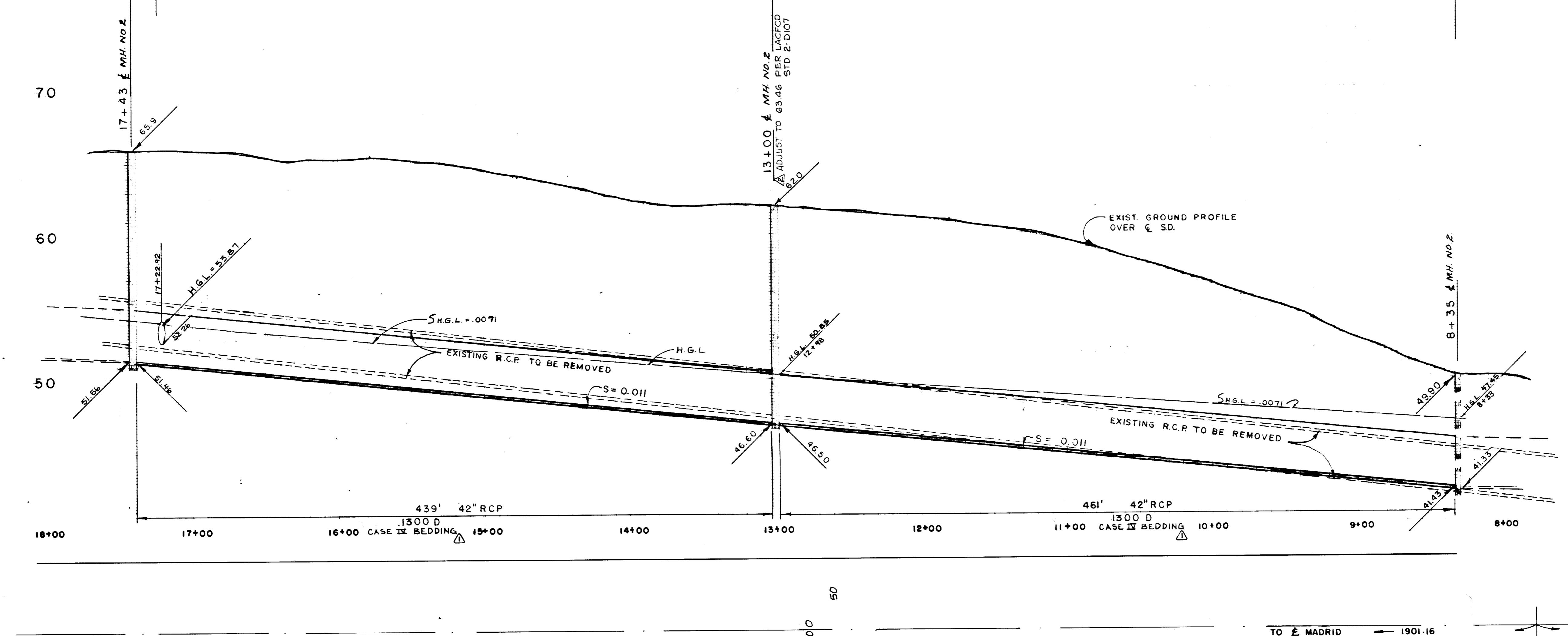
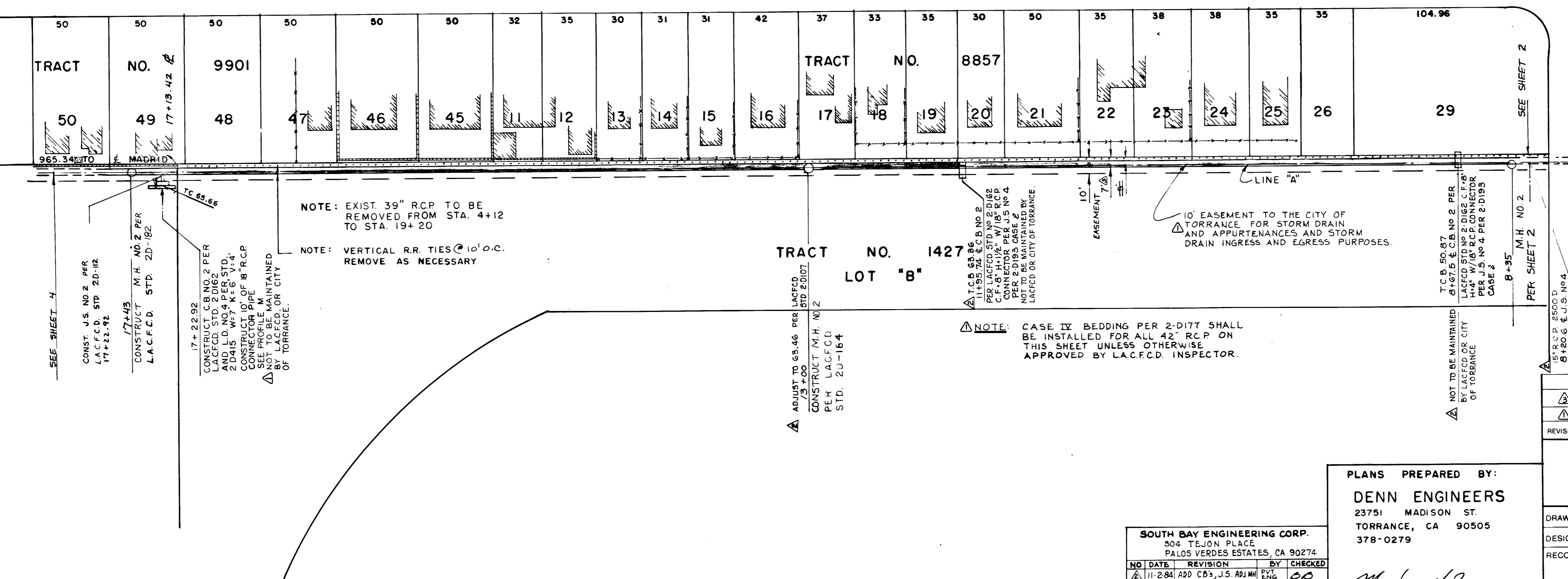
△ 7-31-85	REVISED GENERAL NOTES, VICINITY MAP	PVT. ENG.
△ 9-5-85	ADDED STD. DRWG'S.	SC
△ 8-16-84	REVISED GENERAL NOTES	PVT. ENG. S.J.C.
REVISION DATE	DESCRIPTION	BY CHECKER
CITY OF TORRANCE		
ENGINEERING DEPARTMENT		
E. E. BOURBONNAIS CITY ENGINEER		
DRAWN: F.V.T. ENGINEER	APPROVED: E. E. Bourbonnais	
DESIGNED: P.V.T. ENGINEER	CITY ENGINEER REC. NO. 31183	
RECOMMENDED: SC	SCALE: AS SHOWN SHEET 1 OF 1	
REVISION DATE	PLAN NO. SD-413 SD-1063	

PLANS PREPARED BY:
DENN ENGINEERS
23751 MADISON ST.
TORRANCE, CA 90505
378 0279
Martin M. Denn R.C.E. 7081



SD-1063
SD Del Amo Blvd Easement Crosshairs

2D 412

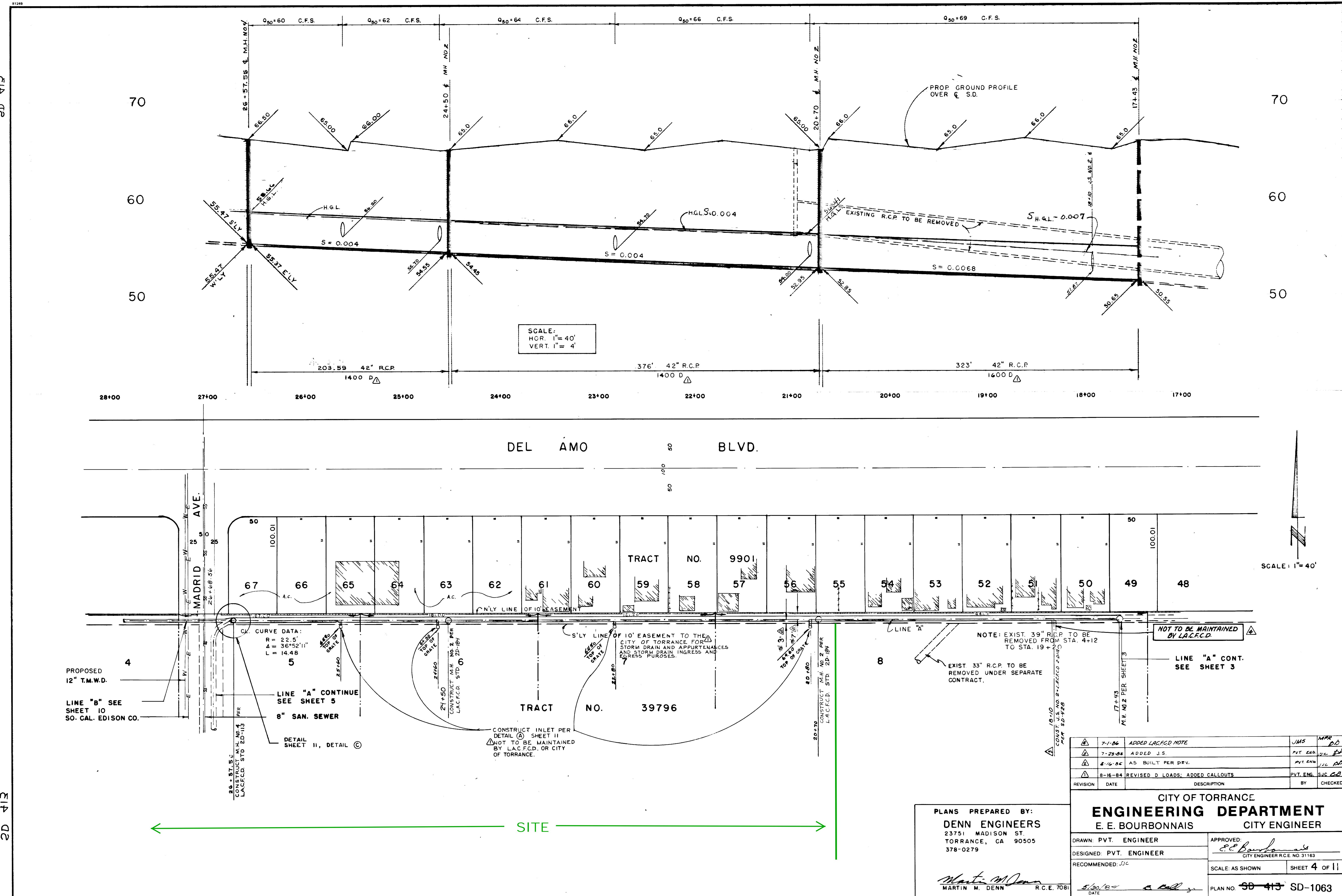


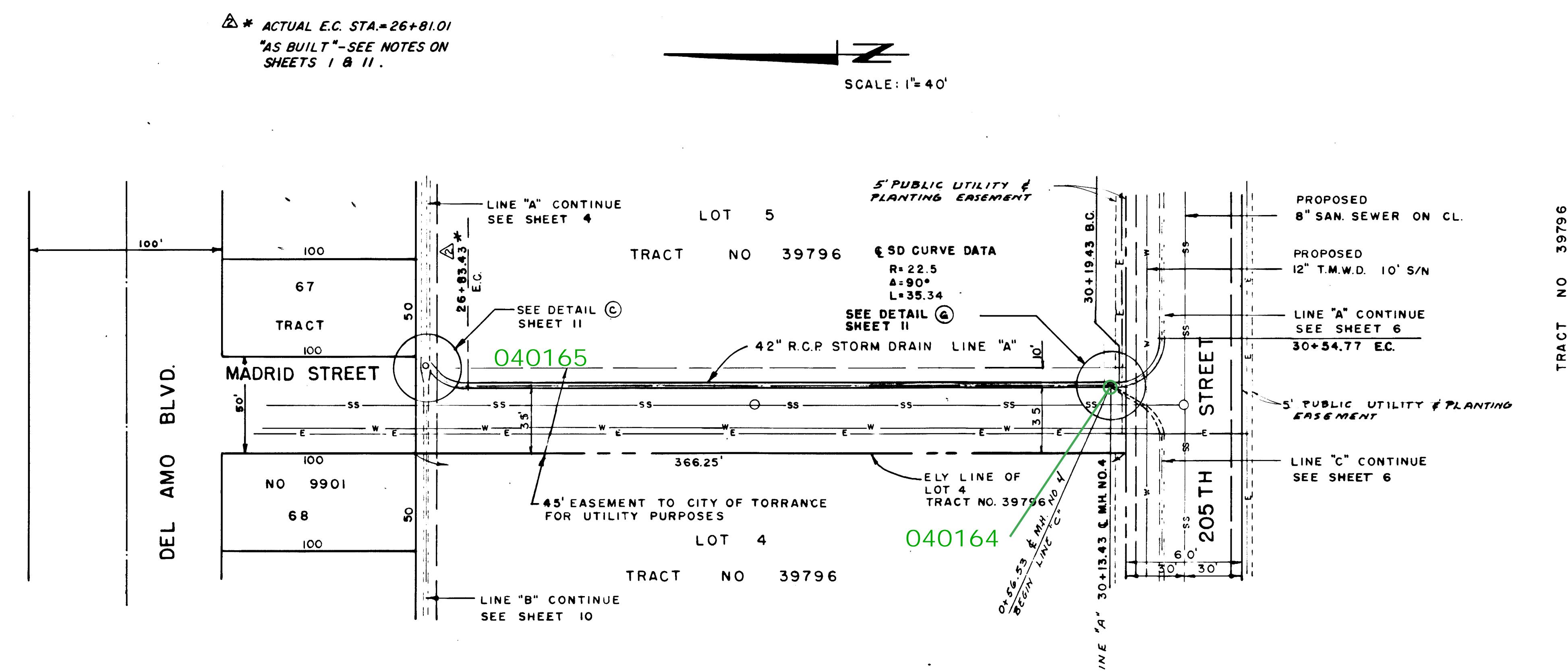
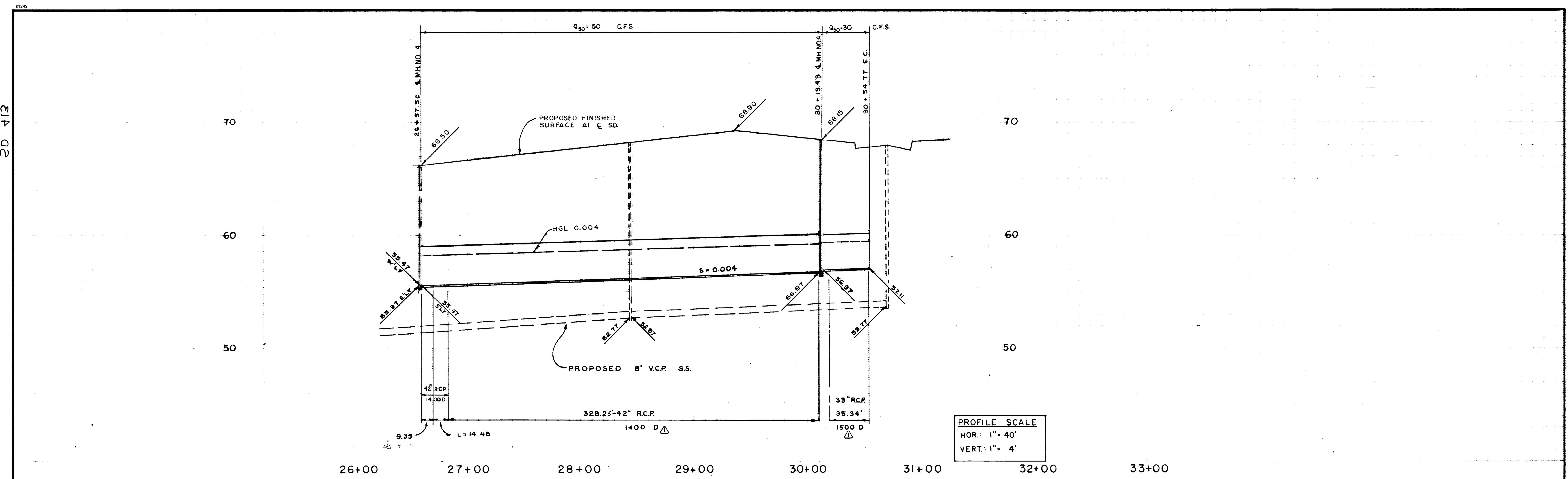
SCALE:
HOR. 1" = 40'
VERT. 1" = 4'

SCALE: 1" = 40'

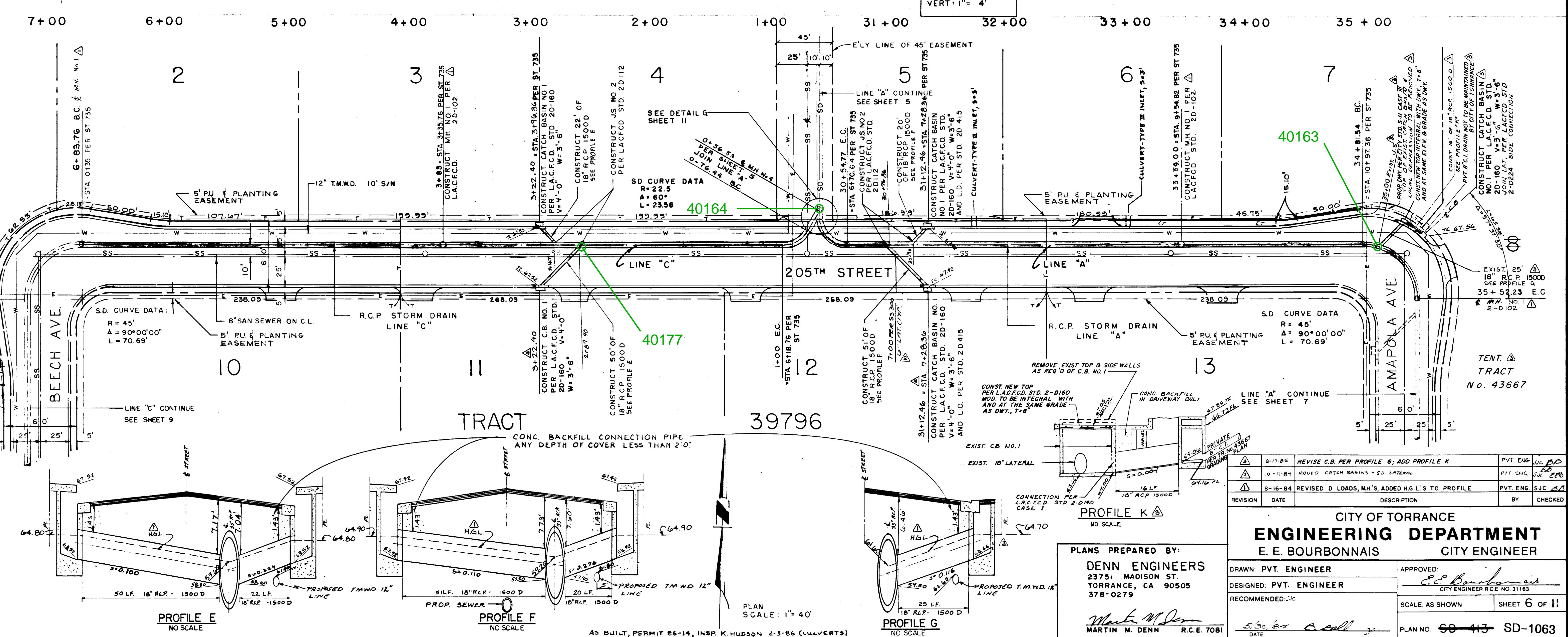
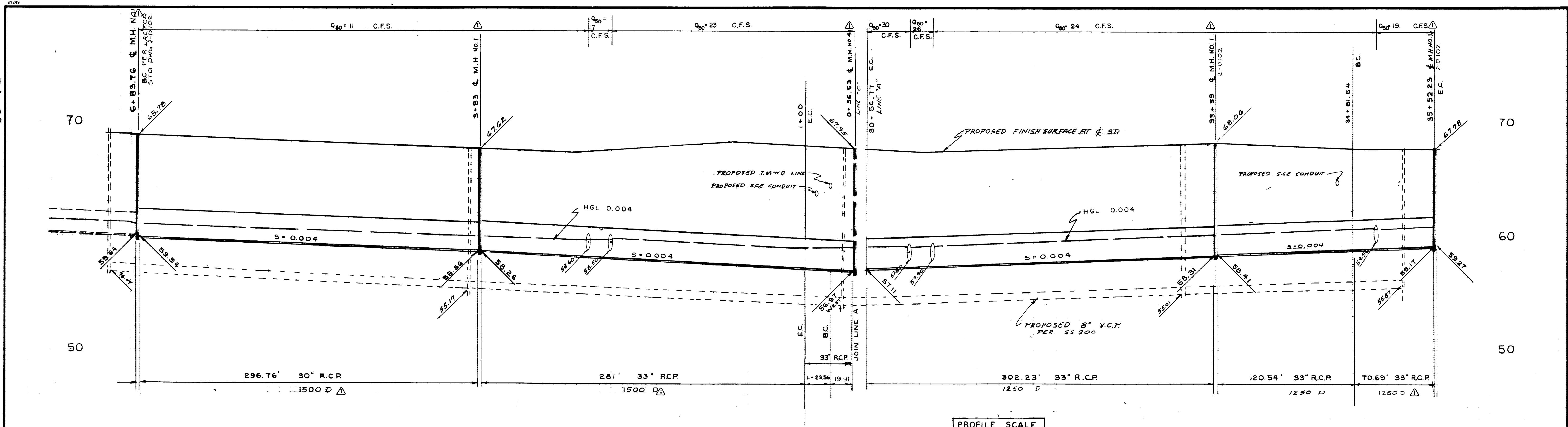
2D 412

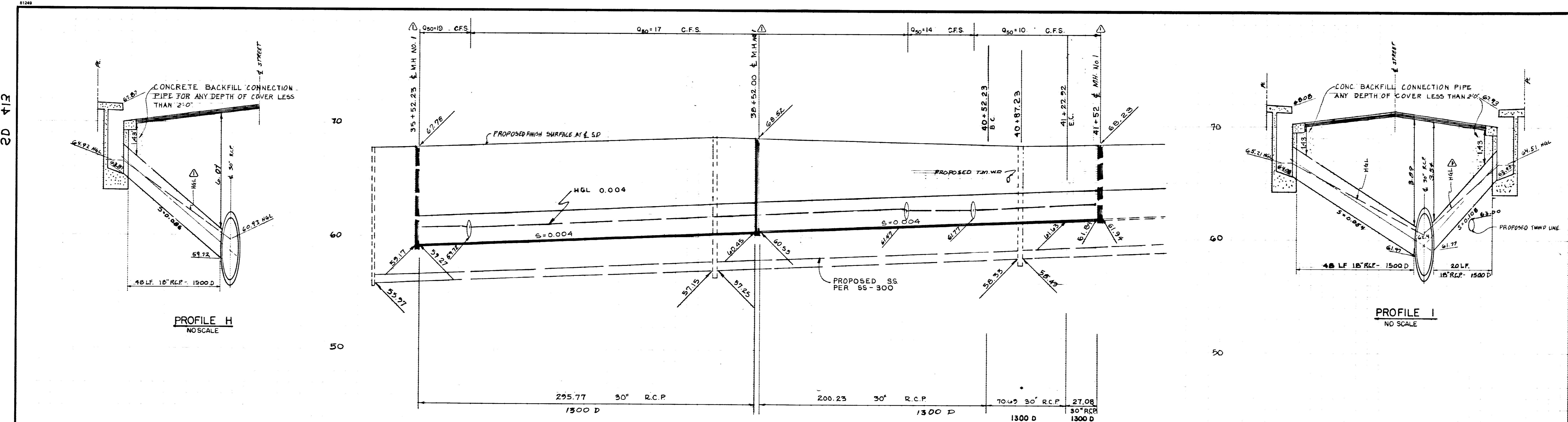
CLIP UC



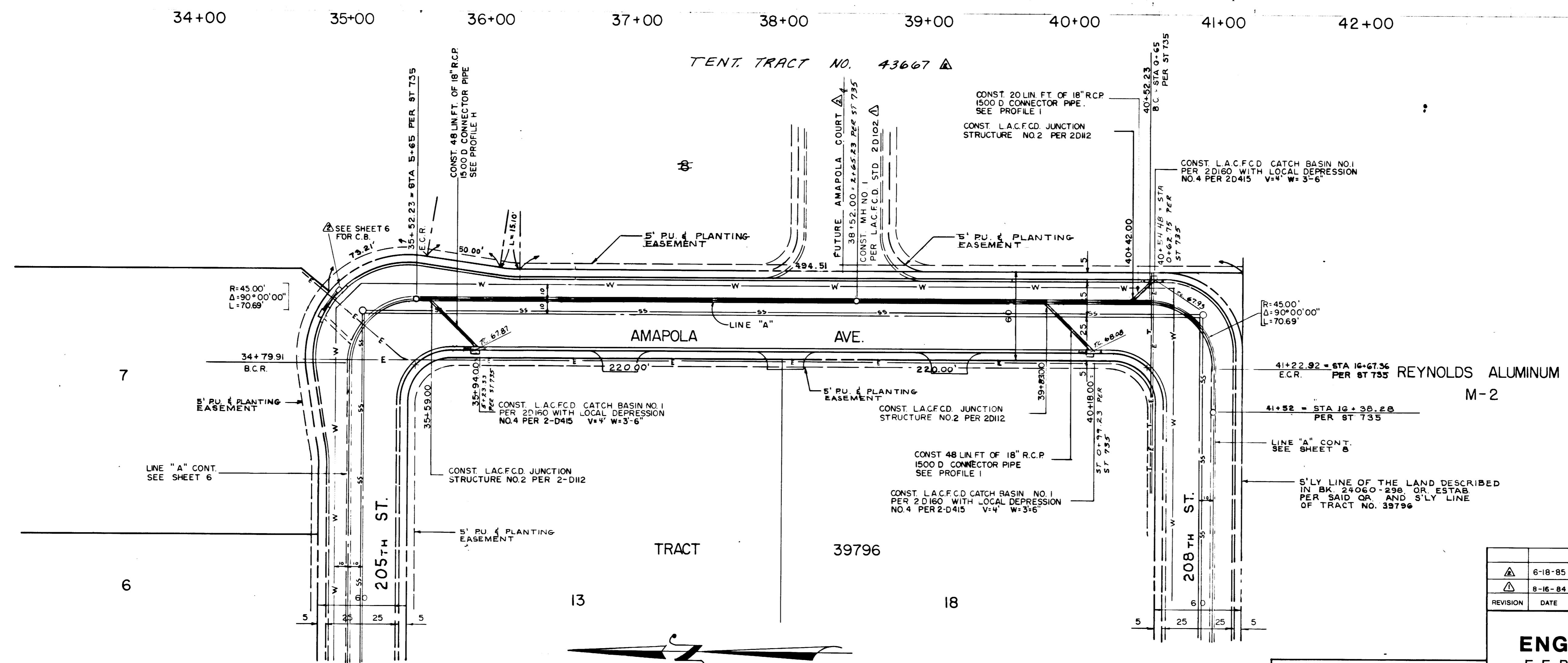


△ 7-31-85	Added "AS BUILT" Note per Developer.	JT	NC	AB
△ 8-16-84	REVISED D LOADS	PVT. ENG.	SUC	DE
REVISION DATE	DESCRIPTION	BY CHECKED		
CITY OF TORRANCE				
ENGINEERING DEPARTMENT				
E. E. BOURBONNAIS CITY ENGINEER				
DRAWN: P.V.T. ENGINEER	APPROVED:	<i>E. Bourbonnais</i>		
DESIGNED: P.V.T. ENGINEER	CITY ENGINEER R.C.E. NO. 31163			
RECOMMENDED: SUC	SCALE: AS SHOWN	SHEET 5 OF 11		
MARTIN M. DENN R.C.E. 7081	DATE	5/30/84 D. 1207		
PLAN NO. SD-413 SD-1063				





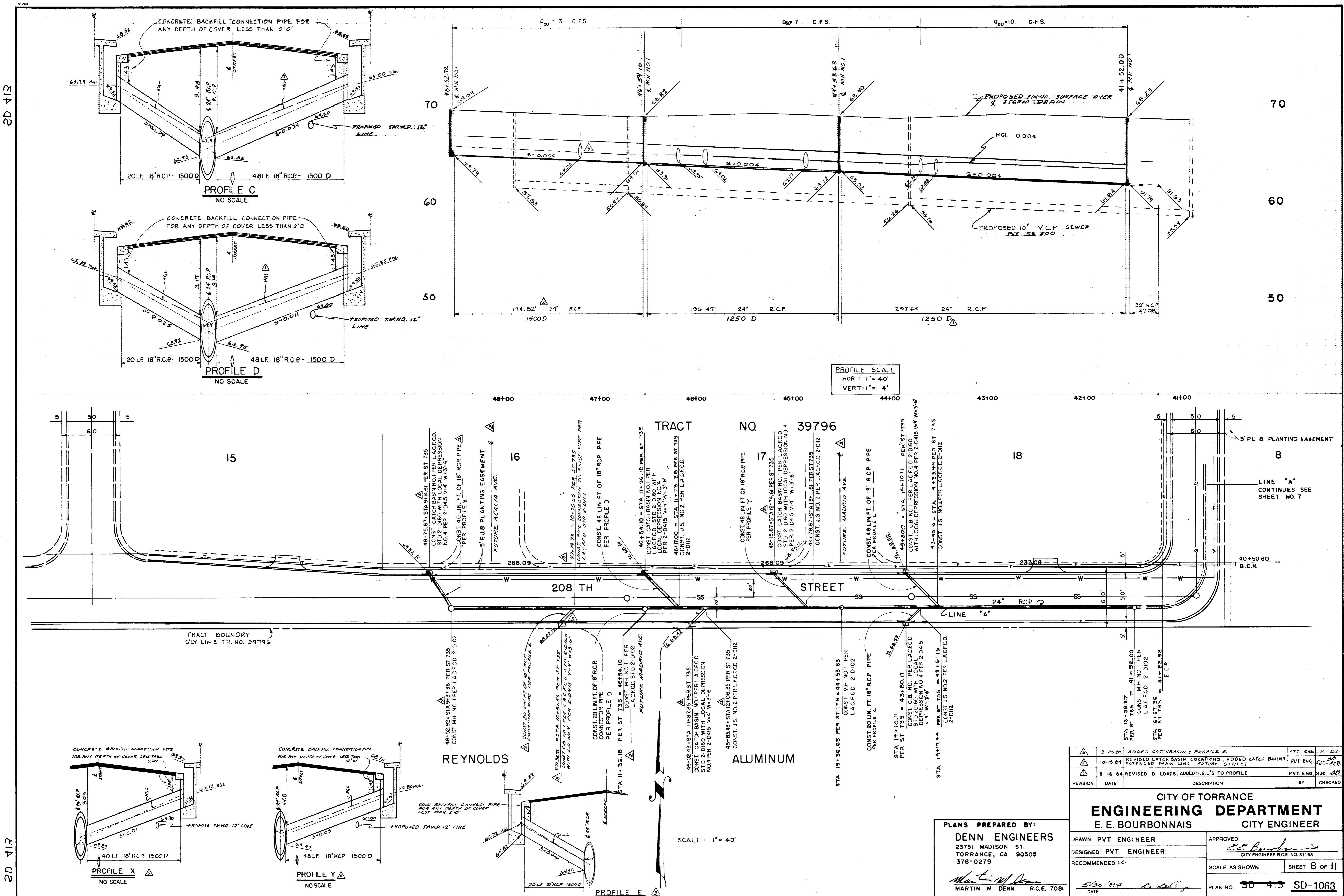
EAST	N 11° 45' 00"	SD	1063	
7-11	7-11	7-11	7-11	7-11



SCALE: 1" = 40'

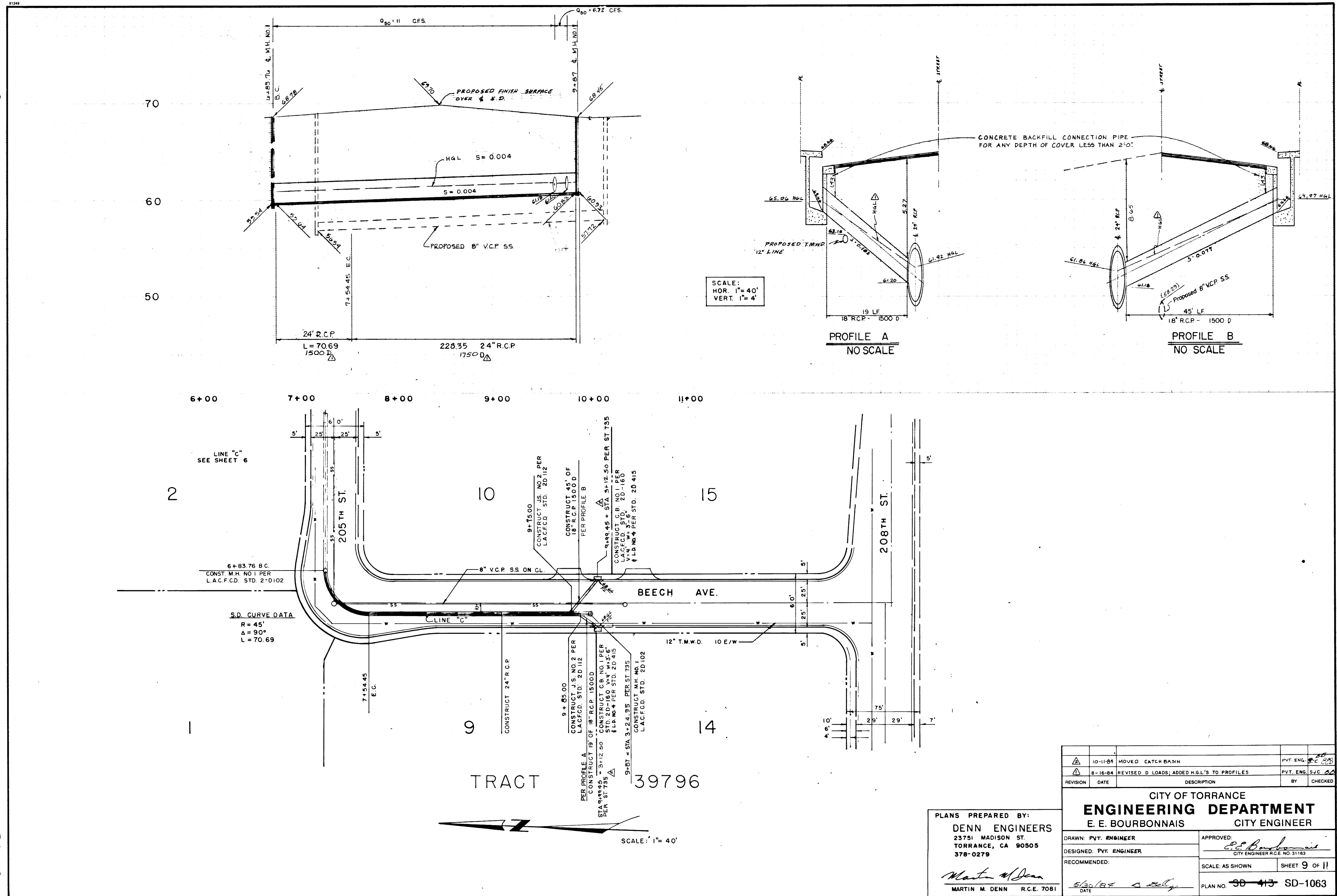
PLANS PREPARED BY:
DENN ENGINEERS
23751 MADISON ST.
TORRANCE, CA 90505
378-0279

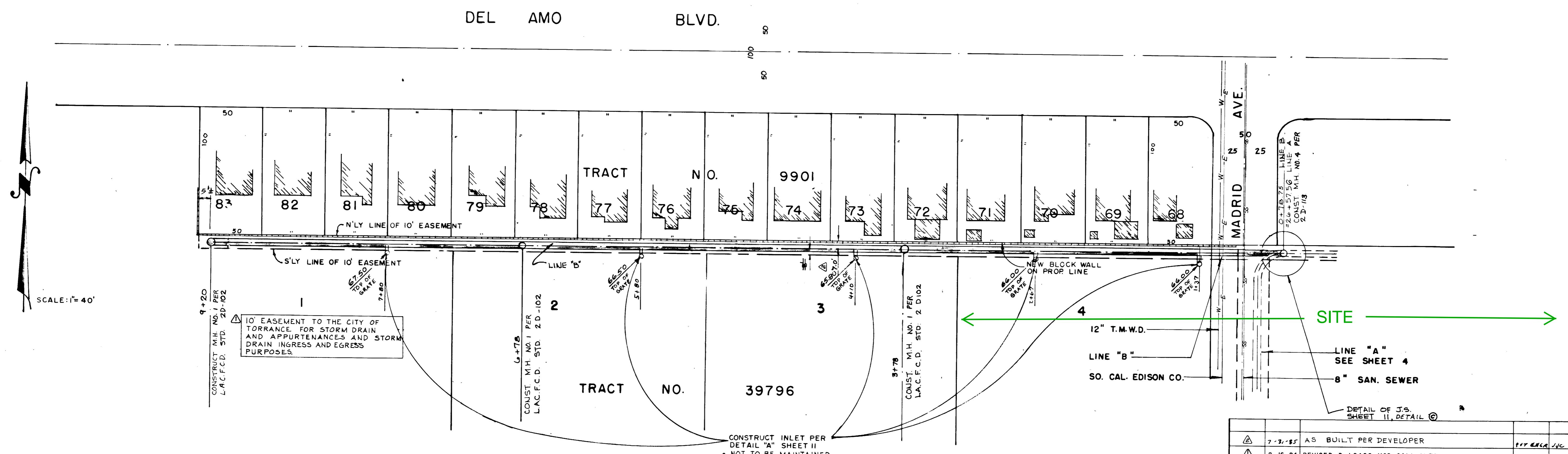
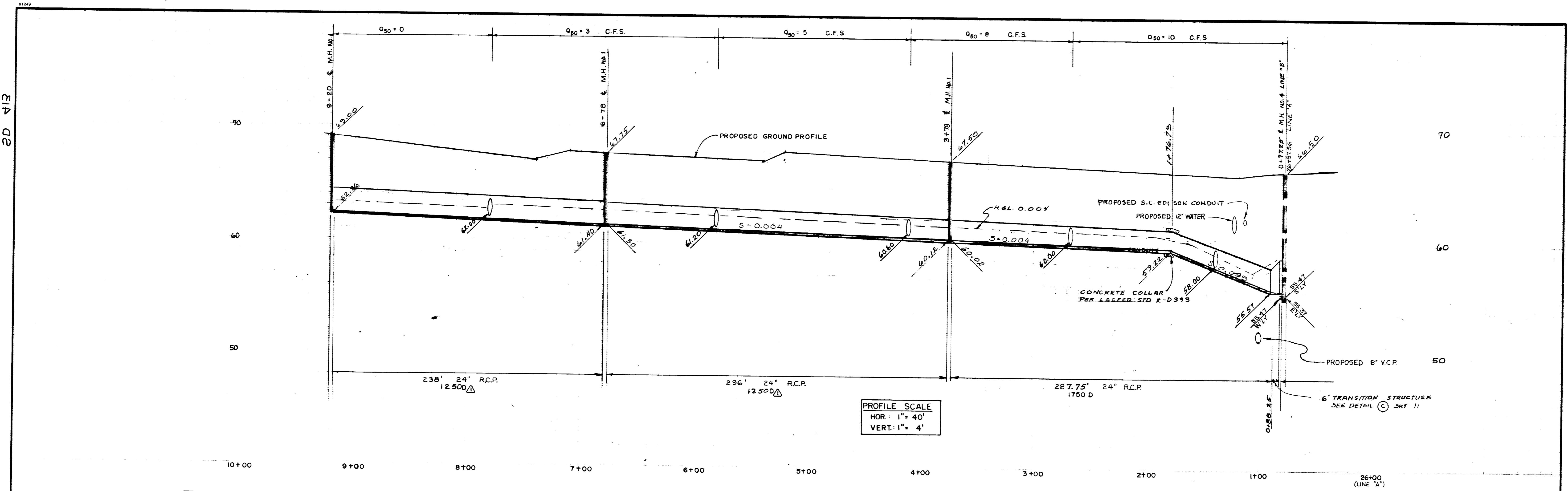
	6-18-85	ADDED FUTURE AMAPOLA COURT, C.B. REV.	PVT. ENG. SJC BD
	8-16-84	REVISED M.H.'S, ADDED H.G.L.'S TO PROFILE	PVT. ENG. SJC CO
REVISION	DATE	DESCRIPTION	BY
CITY OF TORRANCE ENGINEERING DEPARTMENT E. E. BOURBONNAIS CITY ENGINEER			
DRAWN: PVT. ENGINEER		APPROVED: <u>E.E. Bourbonnais</u> CITY ENGINEER R.C.E. NO. 31163	
DESIGNED: PVT. ENGINEER			
RECOMMENDED: SJC		SCALE: AS SHOWN	SHEET 7 OF 11
<u>5/30/84</u> DATE		PLAN NO. <u>SD-413</u>	SD-1063



20 413

~~98-473~~ 9 - 11
Beech Ave. 205th ST ~ 208th ST





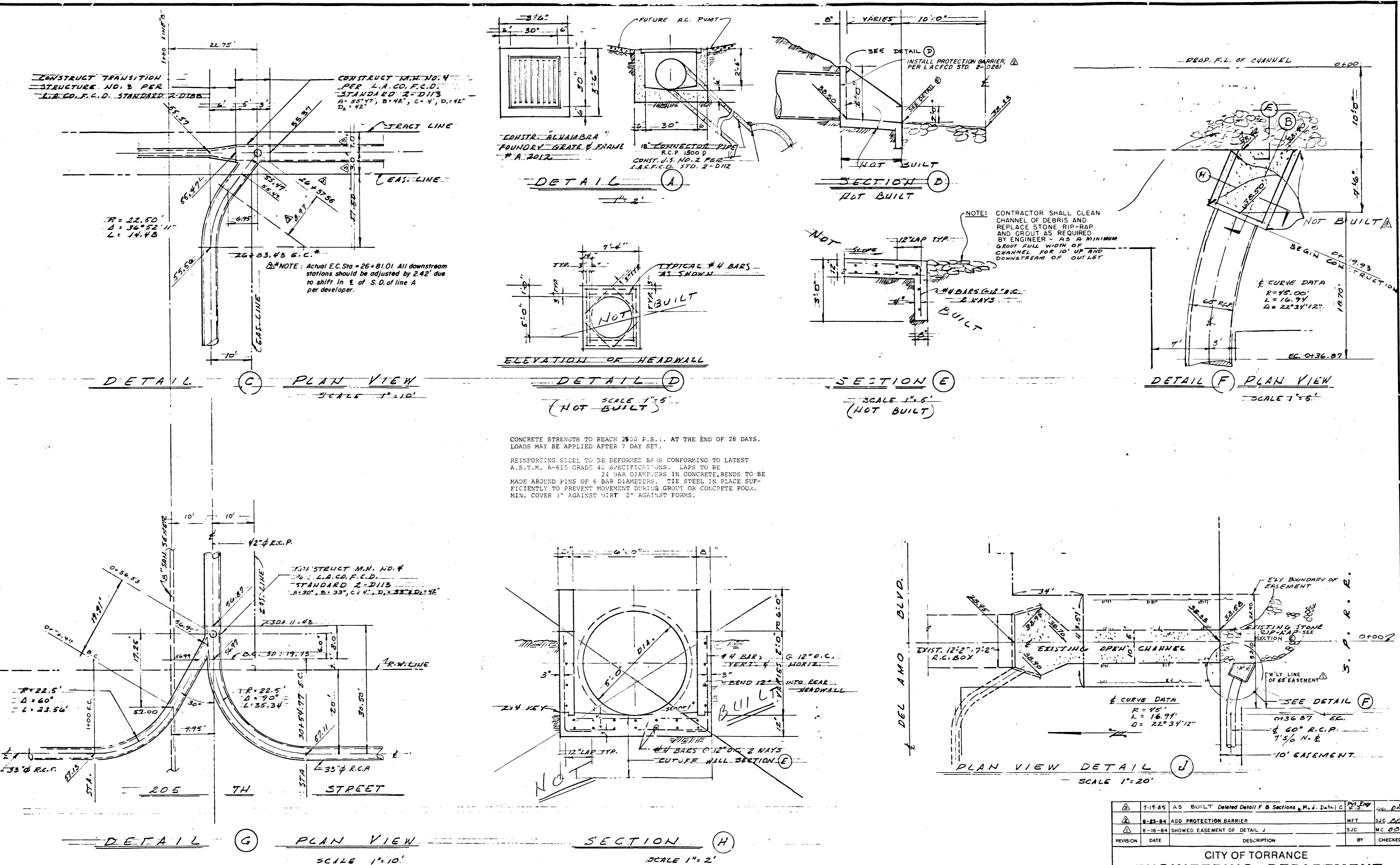
PLANS PREPARED BY:
DENN ENGINEERS
23751 MADISON ST.
TORRANCE, CA 90505
378-0279

MARTIN M. DENN R.C.E. #7081

DRAWN P.V.T. ENGINEER	APPROVED:
DESIGNED P.V.T. ENGINEER	<i>E.E. Bourbonnais</i> CITY ENGINEER R.C.E. NO. 31163
RECOMMENDED:	
SCALE AS SHOWN	SHEET 10 OF 11
DATE	5/30/84 B. B. B.
PLAN NO.	SD 1063 SD-1063

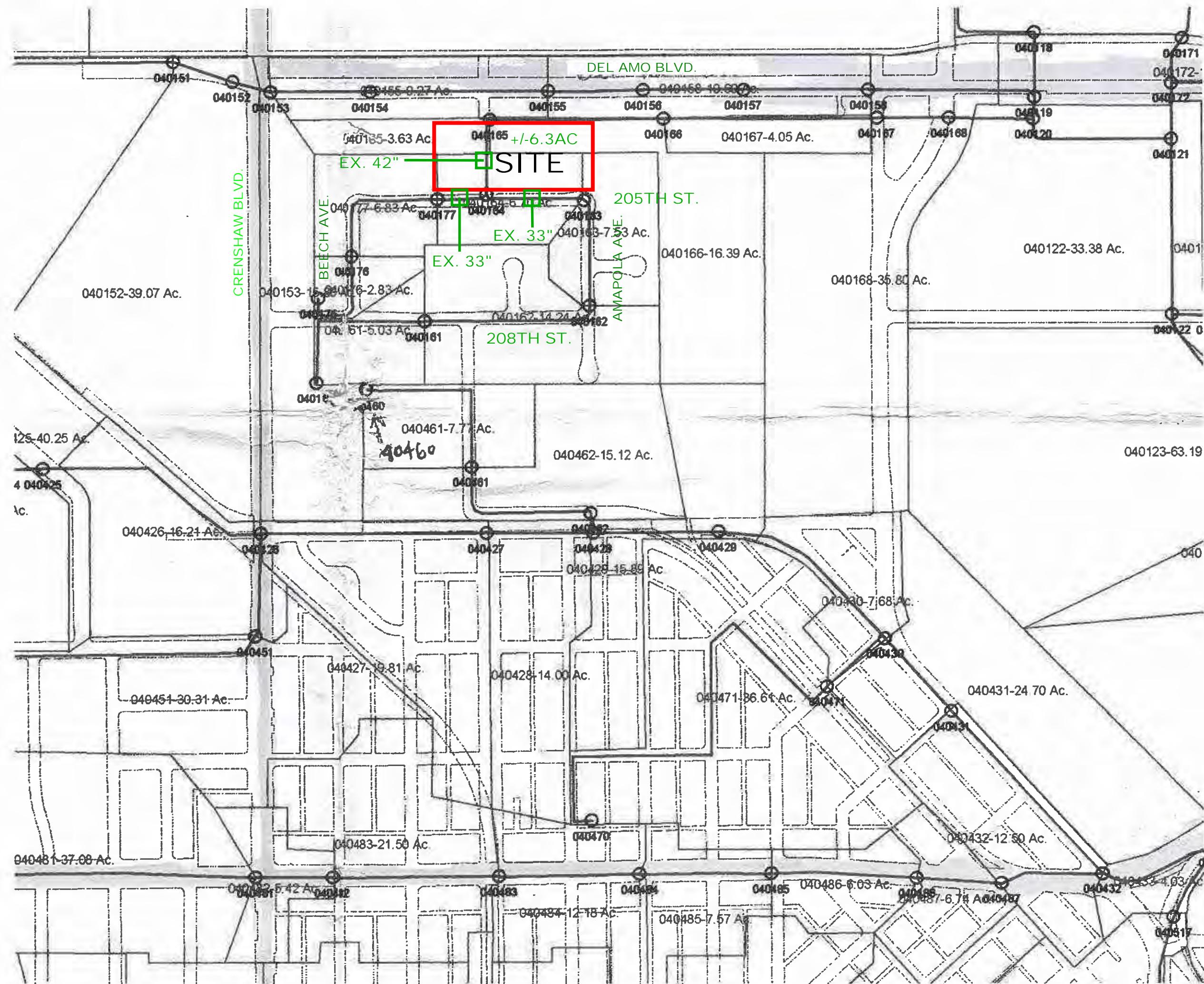
11-13

三
七



PLANS PREPARED BY:
DENN ENGINEERS
23751 MADISON ST.
TORRANCE, CA 90505
378-0279

③	7-19-85	AS BUILT Deleted Detail F & Sections, M.d. Detail C	Pvt. Engr. E.S.	SJC DB
②	8-23-84	ADD PROTECTION BARRIER	MFT	SJC DB
①	8-16-84	SHOWED EASEMENT OF DETAIL J	SJC	MC OS
REVISION	DATE	DESCRIPTION	BY	CHECKED
CITY OF TORRANCE ENGINEERING DEPARTMENT E. E. BOURBONNAIS CITY ENGINEER				
DRAWN: PVT. ENGINEER		APPROVED:		
DESIGNED: PVT. ENGINEER		<i>E.E. Bourbonnais</i> CITY ENGINEER R.C.E. NO. 31163		
RECOMMENDED: SJC		SCALE: AS SHOWN	SHEET 11 OF 11	
<i>5/30/84 B. Bell</i>		PLAN NO. SD 413	SD-1063	
DATE				



CMB SD D.XLS

NODE_ID	USNODE	DSONODE	AREA	Expr1	Expr2	USELEVTOPO	DSELEVTOPO	LENTHTOP	TOPOSLOPE	DIAPTE	PIPENO	WI	SIDESLOPE	MANNIN	Q10LAF	Q25LAF	Q50LAF	BALHGL_U	BALHGL_D	STWID	QST25	QST50	PIPECAP	Q10TOT	Q25TOT	Q50TOT	Q10DEF	Q25DEF	Q50DEF	MAXDEF	MAXDEFY	PARALLELQ	PARALLELQ	REPLDIA	ADVOCDI	RECDIA	RECWIDT			
040110-040111	40110	40111	357373	04	01	60	60.5	1573	-0.0003	8	7	0	0	223	254	294	51.78	48.63	0	0	0	358	358	358	358	0	0	0	0	0	0	0	0	0	0					
040111-040112	40111	40112	2910148	04	01	60.5	60	221	0.0023	9	8	0	0	302	346	398	48.63	48.19	80	24.4	52.6	496.8	496.8	521.2	549.5	0	0	0	0	0	0	0	0	0	0					
040112-040113	40112	40113	2473730	04	01	60	59.5	750	0.0007	7.08	9	0	0	0	370	424	487	48.19	46.69	80	13.2	28.6	413.5	413.5	426.7	442.1	0	0	45	45	3.75	4.55	\$90	6	9.00	0				
040113-040114	40113	40114	259013.1	04	01	59.5	59.2	1048	0.0003	7.08	9	0	0	0	371	426	489	46.69	44.59	52	19.3	37.8	413.5	413.5	432.8	451.3	0	0	38	38	3.50	451	900	0	9.00	0				
040114-040115	40114	40115	04	01	59.2	59	522	0.0004	8.5	1	0	0	0	368	422	485	44.59	43.55	52	22.3	43.7	445.2	445.2	467.5	488.9	0	0	0	0	0	0	0	0	0	0					
040141-040142	40141	40142	349321.8	04	01	58.41	58.3	460	0.0002	2	1	0	0	0	27	30	33	53.22	49.67	32	15.7	27.5	18.4	18.4	34.1	45.9	9	0	0	0	9 10-Yr	9	1.75	27	2.50	0	2.50	0		
040142-040115	40142	40115	04	01	58.3	59	792	-0.0009	2	1	0	0	0	21	24	27	49.67	43.55	0	0	0	18.4	18.4	18.4	18.4	6	9	9 50-Yr	9	1.75	27	2.50	0	2.50	0					
040115-040116	40115	40116	1140292	04	01	59	58.6	550	0.0007	8.5	1	0	0	0	384	442	506	43.55	42.45	52	30.7	60.2	445.2	445.2	475.9	505.4	0	0	1	1 50-Yr	1	0.75	446	9.00	0	9.00	0			
040117-040118	40117	40118	84118.82	04	01	58.6	58.3	1101	0.0003	8	7	0	0	0	385	443	506	42.45	40.25	52	18.8	36.9	340	340	358.8	376.9	45	84	129	129	5.50	469	9.00	0	9.00	0				
040118-040119	40118	40119	04	01	58.3	57	1118	0.0012	25	9	0	0	0	640	741	829	40.25	38.01	0	0	0	2224.8	2224.8	2224.8	2224.8	0	0	0	0	0	0	0	0	0	0					
040151-040152	40151	40152	2497093	04	01	70	69	305	0.0033	3.75	1	0	0	0	78	87	99	69	66.71	65	30.5	66.1	97.3	97.3	127.7	163.3	0	0	0	0	0	0	0	0	0	0				
040152-040153	40152	40153	1700882	04	01	69	68	191	0.0052	3.75	1	0	0	0	134	150	174	66.71	65.28	65	38.5	83.6	97.3	97.3	135.8	180.8	37	14	0	0	37	2.75	134	4.25	0	4.25	0			
040153-040154	40153	40154	689021.8	04	01	68	65	496	0.006	3.75	1	0	0	0	167	189	217	65.28	61.56	66	41	89.7	97.3	97.3	138.2	187	70	51	30	0	70	10-Yr	70	3.50	167	4.75	0	4.75	0	
040154-040155	40154	40155	04	01	65	59	860	0.007	4	1	0	0	0	166	189	216	61.56	55.12	66	44	96.4	115.5	115.5	159.5	211.9	50	29	4	0	0	50	10-Yr	50	3.00	166	4.75	0	4.75	0	
040155-040156	40155	40156	404155.2	04	01	59	56	460	0.0065	4	1	0	0	0	173	197	225	55.12	51.67	66	42.5	93.2	115.5	115.5	158.1	208.7	57	39	16	0	0	57	10-Yr	57	3.25	173	4.75	0	4.75	0
040156-040157	40156	40157	04	01	56	53	482	0.0062	4.25	1	0	0	0	171	196	223	51.67	48.06	66	41.6	91.1	135.8	135.8	177.4	226.9	35	19	0	0	0	35	10-Yr	35	2.75	171	4.75	0	4.75	0	
040157-040158	40157	40158	04	01	53	50.34	607	0.0044	3.25	1	0	0	0	171	195	223	48.06	43.51	66	34.9	76.4	66.4	66.4	101.3	142.8	105	94	80	0	0	105	10-Yr	105	4.00	171	4.75	0	4.75	0	
040158-040119	40158	40119	467480.4	04	01	50.34	51.16	818	-0.001	5	1	0	0	0	177	202	229	43.51	37.38	0	0	0	209.4	209.4	209.4	209.4	0	0	20	0	0	20	2.25	229	5.25	0	5.25	0		
040161-040162	40161	40162	219135	04	01	69.48	68.11	847	0.0016	2	1	0	0	0	22	25	27	66.92	61.73	55	45.5	91.1	16.4	16.4	61.9	107.5	6	0	0	0	0	0	0	0	0	0				
040162-040163	40162	40163	620491.3	04	01	68.11	67.75	522	0.0007	2.5	1	0	0	0	40	47	52	61.73	58.54	46	29.8	56.3	29.8	29.8	59.5	86.10	0	0	0	0	6	1.50	22	2.25	0	2.25	0			
040163-040164	40163	40164	328036.9	04	01	67.75	67.81	484	-0.0001	2.75	1	0	0	0	41	56	68	58.54	55.58	0	0	0	38.4	38.4	38.4	38.4	3	18	30	30	30	30	2.50	68	3.50	0	3.50	0		
040176-040177	40176	40177	123251.7	04	01	69	67.92	665	0.0016	2.5	1	0	0	0	11	13	13	63.98	57.82	46	45.7	86.3	36.7	36.7	82.5	123.1	0	0	0	0	0	0	0	0	0	0				
040177-040164	40177	40164	297627.1	04	01	67.92	67.81	242	0.0005	2.75	1	0	0	0	28	32	35	57.82	55.58	46	24.2	45.6	47.4	47.4	71.5	93	0	0	0	0	0	0	0	0	0	0				
040164-040165	40164	40165	292057.6	04	01	67.81	65	376	0.0075	3.5	1	0	0	0	72	95	111	55.58	53.28	0	0	0	73	73	73	73	0	22	38	38	38	38	2.75	111	4.25	0	4.25	0		
040165-040166	40165	40166	158016.5	04	01	65	62.92	840	0.0025	3.5	1	0	0	0	79	102	120	53.28	48.13	0	0	0																		