TRACT 21767

OFFSITE STORM DRAIN

CITY OF RIVERSIDE

CALIFORNIA

GENERAL NOTES:

1 IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAR THE RIGHT-OF WAY IN ACCORDANCE WITH THE PROVISIONS OF THE LAW AS IT AFFECTS EACH UTILITY INCLUDING IRRIGATION LINES AND APPURTENANCES AND AT NO COST TO THE CITY.

2 CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPARTMENT OF PUBLIC WORKS, STANDARD DRAWINGS, STANDARD DRAWING NO. 10 AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.

3 QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.

4 ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.

5 BEFORE THE RIP RAP IS ACCEPTED, AS PLACED, AT THE OUTLET OF ANY DRAINAGE STRUCTURE, IT SHALL BE TESTED UNDER FLOWS AS CLOSE AS POSSIBLE TO DESIGN CONDITIONS WITH WATER OBTAINED FROM FIRE HYDRANTS IN THE IMMEDIATE AREA.

6 THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY AND ACCEPTABILITY OF THE WORK HEREON. IN THE EVENT OF DISCREPANCIES ARISING DURING CONSTRUCITON, THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCEPTABLE SOLUTION AND REVISING THE PLANS FOR APPROVAL BY THE CITY.

7 THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE NO. 1-800-422-4133, TWO WORKING DAYS BEFORE DIGGING. NO CONSTRUCTION PERMIT WILL BE ISSUED BY THE PUBLIC WORKS DEPARTMENT UNLESS THE APPLICANT HAS BEEN PROVIDED AN INQUIRY INDENTIFICATION NUMBER BY U.S.A.

8 THE PRIVATE ENGINEER PREPARING THESE PLANS SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.

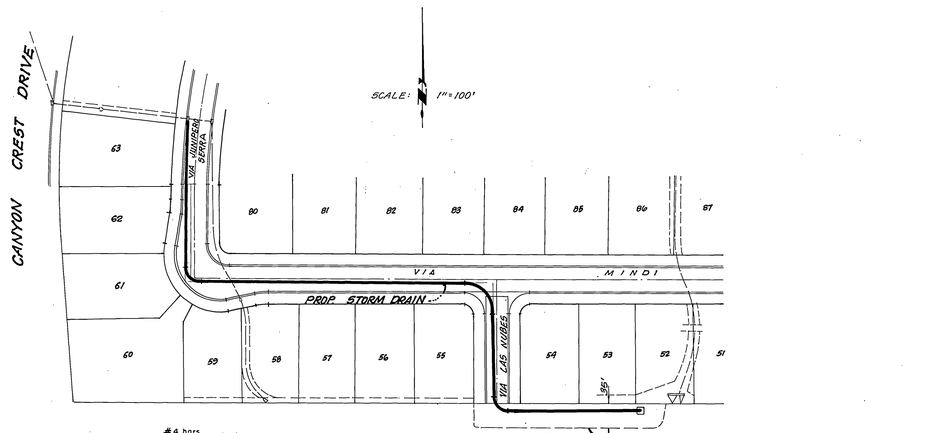
9 REFER TO NOTE REFERENCING 8" A.C. WATER MAINS AND CONSTRUCTION NOTE (8) ON SHT. 2.

10 ALL PROJECT WORK WITHIN SYCAMORECANYON PARK SHALL BE SUBJECT TO FINAL INSPECTION AND APPROVAL OF THE PARK AND RECREATION DEPARTMENT. CONTACT THE PARK PROJECTS INSPECTOR AT 782-5223 TO SCHEDULE FINAL INSPECTION.

NOTIFICATIONS

NOTE: THE CONTRACTOR SHALL NOTIFY THE FOLLOWING UTILITIES OR AGENCIES 48 HOURS PRIOR TO STARTING CONSTRUCTION OR EXCAVATION.

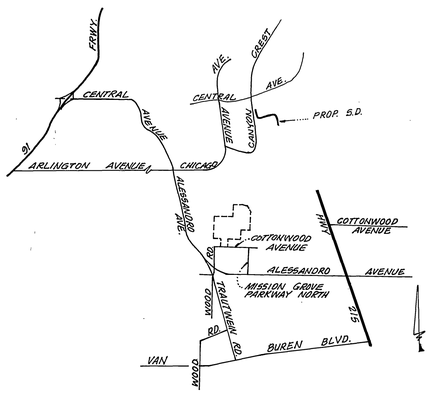
CITY OF RIVERSIDE	(714) 782-5341
PACIFIC BELL (FRED DUVAL)	(714) 666-5454
SOUTHERN CALIFORNIA GAS CO.	1-(800) 422-4133
UNDERGROUND SERVICE ALERT	1-(800) 422-4133
WESTERN MUNICIPAL WATER DISTRICT	(714) 780-2450



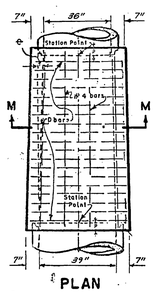
INDEX MAP

WORK LIMIT LINE PAST WHICH ALL CONSTRUCTION EQUIPMENT AND VEHICLES EITHER PRIVATE OR OTHERWISE ARE NOT TO GO WITHIN THE PARK

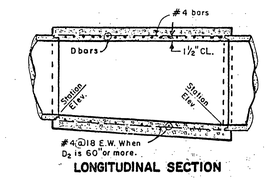
SYCAMORE CANYON PARK



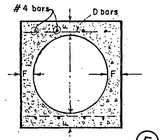
VICINITY MAP
NO SCALE



PLAN



LONGITUDINAL SECTION



SECTION M

TABLE
For dimensions and bars size

D2,D1	F or T	P	D or F bars
39"	7"	5"	#4 @ 18"

NOTES

1. The horizontal Angle of convergence or divergence, ϕ shall not exceed 5°45'.
2. Values for A,B,C,D1,D2,Elev.R and Elev. S are shown on improvement plan. The length of the structure may be increased to meet pipe ends, using D bars in extended portion of same diameter and spacing as specified.
3. Concrete shall be Class A. Floor of the structure shall be steel-troweled to springing line. Structure shall be poured in one continuous operation, except that the contractor shall have the option of placing at the springing line a construction joint with a longitudinal keyway.
4. Reinforcing steel clear cover shall be 1½" on inside, Tie bars shall be No. 4 @ spaced 18" c/c.
5. When dimension C is not specified the spur shall not be constructed and a A & B bars shall be omitted.

(5) TRANSITION STRUCTURE

REGISTERED PROFESSIONAL ENGINEER — RAYMOND L. HAWKINS — No. C043613 Exp. 12-31-88 — CIVIL — STATE OF CALIFORNIA

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
THE EXISTENCE AND APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS WERE DETERMINED BY A SEARCH OF AVAILABLE PUBLIC RECORDS. THE CONTRACTOR SHALL POTHOLE REFERENCED UTILITY LINES PRIOR TO CONSTRUCTION TO VERIFY EXACT LOCATION OF SAID UTILITIES. TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UNDERGROUND UTILITIES OR STRUCTURES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES OR STRUCTURES SHOWN AND ANY OTHER UTILITIES OR STRUCTURES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
CONTRACTOR SHALL VERIFY ALIGNMENT AND GRADE PRIOR TO PLACEMENT OF PIPE AND NOTIFY HAWKINS, ROBERTSON, AND ASSOCIATES IN THE EVENT OF CONFLICTING UTILITIES OR DISCREPANCY IN JOIN ELEVATIONS.

NOTICE TO CONTRACTOR

THE EXISTENCE AND LOCATIONS OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. APPROVAL OF THESE PLANS BY THE CITY OF RIVERSIDE DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OR COMPLETENESS OF THE LOCATION OR THE EXISTENCE OR NONEXISTENCE OF ANY UNDERGROUND UTILITY PIPE OR STRUCTURE WITHIN THE LIMITS OF THIS PROJECT. THE CONTRACTOR IS REQUIRED TO TAKE ALL DUE PRECAUTIONARY MEANS TO PROTECT THE UTILITY LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

NOTICE TO CONTRACTOR

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

CONSTRUCTION NOTES

(1)	CONSTRUCT 36" R.C.P.	190 L.F.
(2)	CONSTRUCT 39" R.C.P.	466.39 L.F.
(3)	CONSTRUCT 42" R.C.P.	278.80 L.F.
(4)	CONSTRUCT M.H. AX PER CITY STD. NO. 430	1 EA.
(5)	CONSTRUCT T.S. PER DETAIL ON THIS SHEET	1 EA.
(6)	CONSTRUCT INLET STRUCTURE PER DETAIL ON SHEET NO. 2	1 EA.
(7)	REMOVE & REPLACE EXIST. CURB & GUTTER AS NEEDED	L.S.
(8)	SHEETING AND SHORING MUST BE USED FROM STA. 0+00 TO STA. 2+00 TO PROTECT EXISTING 6" A.C. WATER MAIN. CONTRACTOR SHALL CALL P.U. WATER ENGINEERING AT 782-5304 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE INSPECTION.	L.S.
(9)	CONSTRUCT GROUTED RIP-RAP	2750 S.F.

* AS BUILT 2-22-91 4H

BENCH MARK: (TEMPORARY BENCH MARK NO.14) PER TR 3820 S.D. PLAN D-189 CITY OF RIVERSIDE ELEV. =1107.35

DEVELOPER:
CALIFORNIA COMMUNITIES INC.
3187-A AIRWAY AVENUE
COSTA MESA, CALIFORNIA 92626
(714) 662-3700

HAWKINS, ROBERTSON & ASSOCIATES
ENGINEERS & SURVEYORS
(714) 684-9522
3764 ELIZABETH ST. RIVERSIDE, CA. 92506

REGISTRATION EXPIRES: 12-31-88
R.C.E. No. C043613 — 7/21/88 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY J.B. & M.B. DRAWN BY RECRUZ CHECKED BY M.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	BY	DATE
APPROVED		
PRINCIPAL ENGINEER		
PARK DEPARTMENT	GS	7-29-88
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER		8-25

APPROVED BY Barry Bell
PUBLIC WORKS DIRECTOR
DATE 8/29/88

TITLE SHEET
STORM DRAIN PLAN
TRACT 21767 (OFF-SITE)

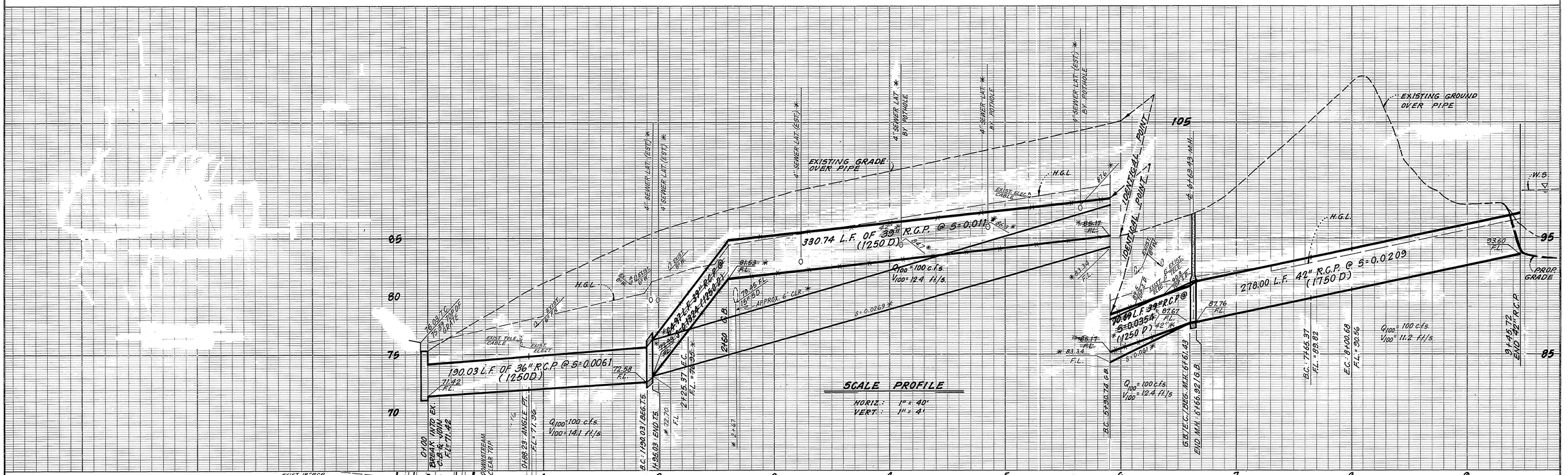
ACCOUNT NO. D-555
SHEET 1 OF 2
HORIZ. SCALE: 1"= AS SHOWN VERT. SCALE: 1"=
J.O. 88-3806A

UNAUTHORIZED CHANGES & USES

CAUTION: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

TITLE SHEET FOR STORM DRAIN - 13 [0.39] PF: 3806A 1 14-Apr-88 03:38 PM / 3806A.3-13

INDEXED 9-9-88 4H



SCALE PROFILE

HORIZ.: 1" = 40'
VERT.: 1" = 4'

CURVE DATA

Ⓐ Δ = 89° 54' 18", R = 22.50', L = 35.31', T = 22.46'
Ⓑ Δ = 90° 00' 00", R = 45.00', L = 70.69', T = 45.00'
Ⓒ Δ = 90° 00' 00", R = 22.50', L = 35.34', T = 22.50'

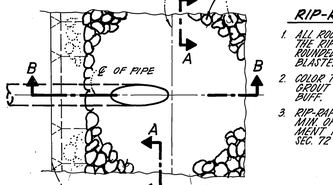
NOTE: CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR METHOD OF SUPPORT / BRACING FOR 8" A.C. WATER MAIN. ALSO, CONTRACTOR SHALL GIVE CITY WATER DIVISION 72 HOURS WRITTEN NOTICE PRIOR TO START OF CONSTRUCTION (782-5304)

CONSTRUCTION NOTES

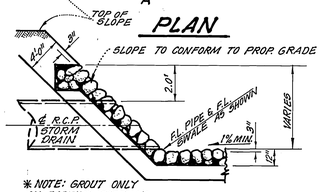
1. CONSTRUCT 36" R.C.P.
2. CONSTRUCT 39" R.C.P.
3. CONSTRUCT 42" R.C.P.
4. CONSTRUCT M.H. AX STD. 430
5. CONSTRUCT T.S. PER DETAIL ON SHEET 1
6. CONSTRUCT INLET STRUCTURE PER DETAIL SHOWN ON THIS SHEET.
7. REMOVE & REPLACE EXIST. CURB & GUTTER AS NEEDED.
8. SHEETING AND SHORING MUST BE USED FROM STA. 0+00 TO STA. 2+00 TO PROTECT EXISTING 6" A.C. WATER MAIN. CONTRACTOR SHALL CALL P.V. WATER ENGINEER AT 782-5304 48 HOURS PRIOR TO CONSTRUCTION TO SCHEDULE INSPECTION.
9. CONSTRUCT GROUTED RIP-RAP

RIP-RAP NOTES:

1. ALL ROCK TO BE USED IN THE RIP-RAP SHALL BE RUNNED NATIVE ROCK (NOT BLASTED OR CRUSHED)
2. COLOR TO BE USED IN THE GROUT SHALL BE RIVERSIDE BUFF.
3. RIP-RAP TO BE 1/4 TON, A MIN. OF 24" THICK, PLACEMENT PER STATE SPEC'S SEC. 72, METHOD B.



PLAN



* NOTE: GROUT ONLY ON EARTH'S FACE. NO GROUT SHOWING ON EXPOSED ROCKS.

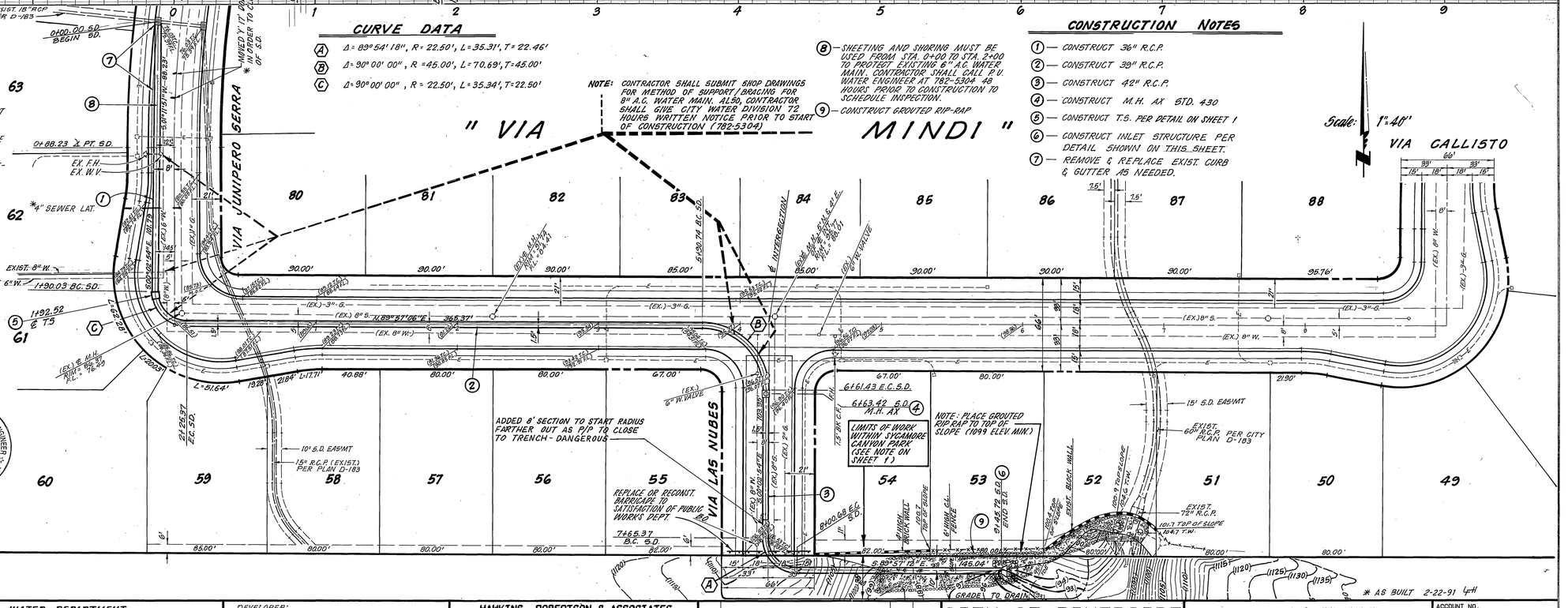
SECTION B-B

SECT. A-A

DETAIL - INLET STRUCTURE ⑥

T.B.M.
TOP OF CURB AT B.C.R. S.E. CORNER
"VIA MINDI" & "VIA LAS NUBES
ELEV. = 1096.90

REGISTERED PROFESSIONAL ENGINEER — RAYMOND D. TAYLOR — No. C043613 — Exp. 12-31-88 — CIVIL — STATE OF CALIFORNIA



63	62	61	60	59	58	57	56
80	81	82	83	84	85	86	87
55	54	53	52	51	50	49	88

BENCH MARK: (TEMPORARY BENCH MARK NO. 14) PER TR. 3820 S.D. PLAN D-183 CITY OF RIVERSIDE ELEV. = 1107.35

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WATER DEPARTMENT
BY Carl Wenzentrau 7/26/88 DATE

ELECTRIC DEPARTMENT
BY Charles Bluemel 6-13-88 DATE

DEVELOPER:
CALIFORNIA COMMUNITIES INC.
3187-A AIRWAY AVENUE
COSTA MESA, CALIFORNIA 92626
(714) 662-3700

PACIFIC TELEPHONE
John Irish 7-21-88
APPROVED DATE

HAWKINS, ROBERTSON & ASSOCIATES
ENGINEERS & SURVEYORS
(714) 684-9522
3764 ELIZABETH ST. RIVERSIDE, CA. 92506

REGISTRATION EXPIRES: 12-31-88
R.C.E. No. C043613 7/21/88 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY V.S. & M.S. DRAWN BY A.R. CRUZ CHECKED BY M.T.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

	BY	DATE
APPROVED		
PRINCIPAL ENGINEER		
PARK DEPARTMENT	98	7-20-88
TRAFFIC DIVISION		
CHIEF P. W. ENGINEER		8-25-88

APPROVED BY Barry Ford
PUBLIC WORKS DIRECTOR
DATE 8/29/88

PLAN & PROFILE
OFF-SITE STORM DRAIN
TRACT 21767

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

ACCOUNT NO. D-555
SHEET 2 OF 2
J.O. 88-3806A

TITLE BLOCK - 13 [0, 39] PF: 3806A 3 01-Apr-88 08:35 AM / 3806A.3-13
INDEXED 9-9-88 GH