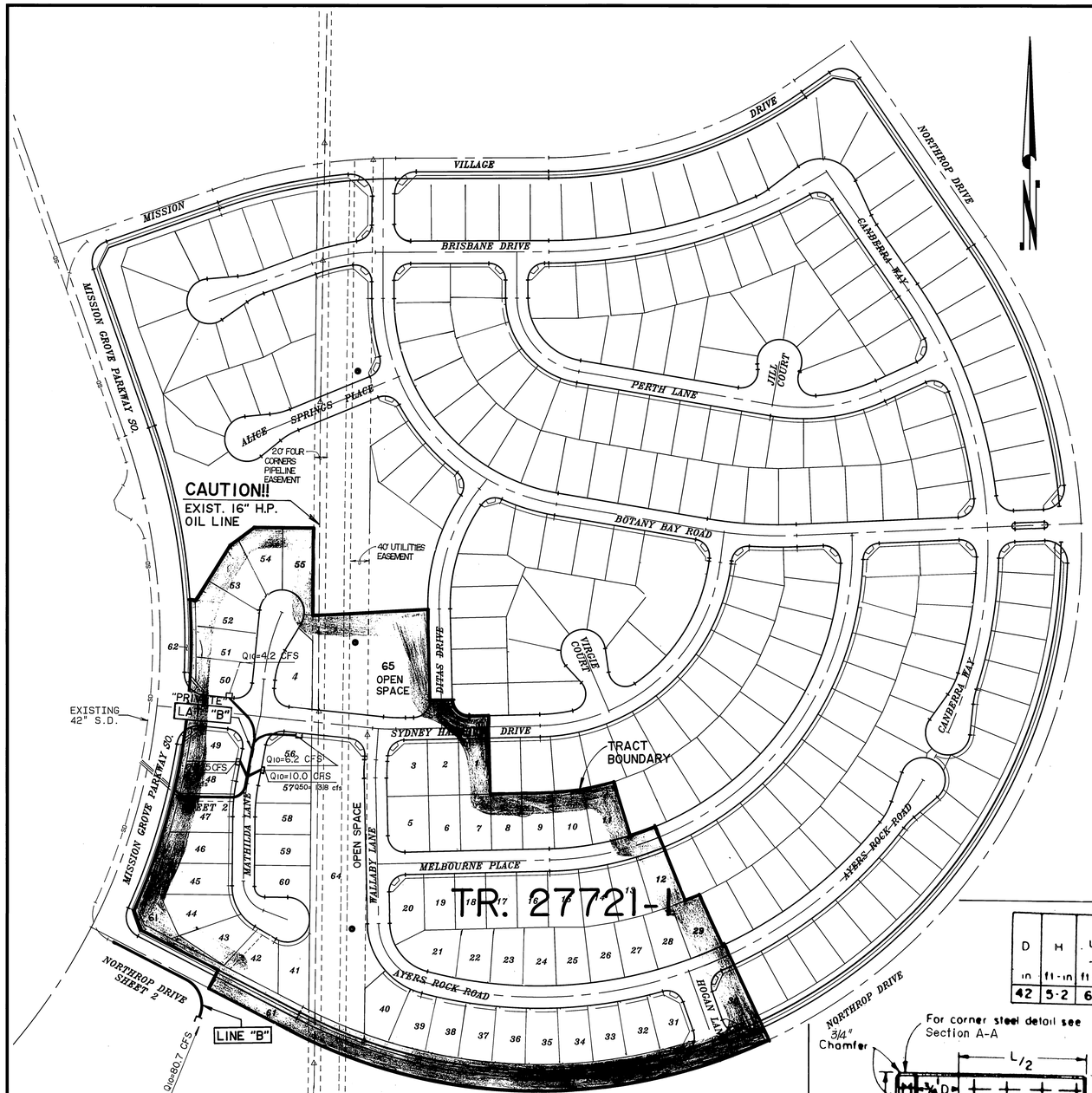
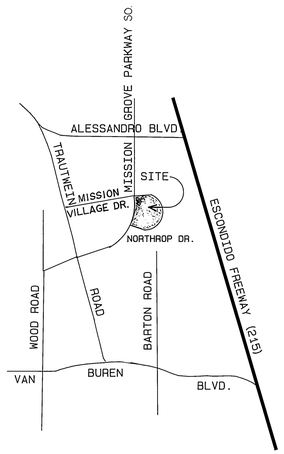


INDEX MAP

1" = 100'



VICINITY MAP

N.T.S.

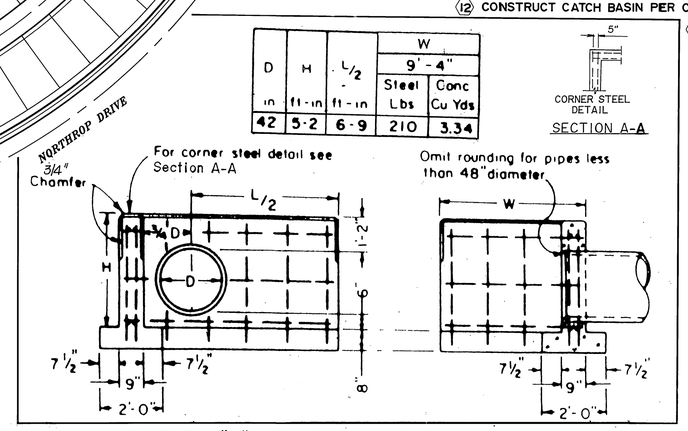
CONSTRUCTION NOTES — QUANTITIES

1	CONSTRUCT 18" RCP (D-2000) CASE I BEDDING	113 L.F.
2	CONSTRUCT 24" RCP (D-1350)	135 L.F.
3	CONSTRUCT 24" RCP (D-1750)	125 L.F.
4	CONSTRUCT 42" RCP (D-1200)	204 L.F.
5	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. DWG. NO. 405	3 EA.
6	CONSTRUCT TRANSITION STRUCTURE WITHOUT LATERAL PER DETAIL ON THIS SHEET.	1 EA.
7	CONSTRUCT MANHOLE "JM" PER CITY OF RIVERSIDE STD. DWG. NO. 432	1 EA.
8	CONSTRUCT L-HEADWALL PER DETAIL ON THIS SHEET	3.3 C.Y.
9	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. NO. 424	1 EA.
10	CONSTRUCT JUNCTION STRUCTURE "C" PER CITY OF RIVERSIDE, STD. DWG. NO. 422.	1 EA
11	CONSTRUCT CONCRETE PAD PER DETAIL ON THIS SHEET	0.9 CY.
12	CONSTRUCT CATCH BASIN PER CITY STD. DWG. 406	1 EA.
13	CONSTRUCT GRATE INLET PER DETAIL ON SHT. 2	1 EA.

STORM DRAIN NOTES

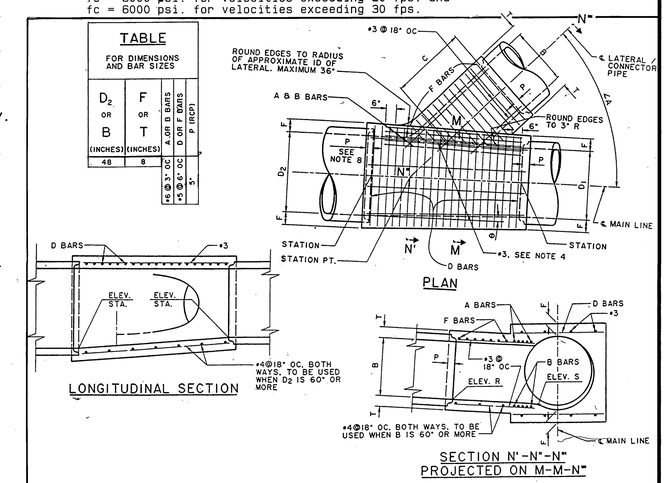
1. Quantities shown are for information only and the City of Riverside is not responsible for their accuracy.
2. Construction shall be in accordance with City of Riverside Dept. of Public Works Standard Drawings, Std. Dwg. No. 10 and the Standard Specifications for Public Works Construction, Current Edition.
3. It shall be the responsibility of the contractor to clear the right of way in accordance with the provisions of law as it affects each utility including irrigation lines and appurtenances and at no cost to the City.
4. Notice to contractor. The existence and location of any underground utility pipes or structures shown on these plans were obtained by a search of the available records. To the best of our knowledge there are no existing utilities exept as shown on these plans. The contractor is required to take precautionary measures to protect the utility lines shown and any other lines not of record or not shown on these plans.
5. 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 construction, the private engineer shall be responsible for determining an acceptable solution and revising the plans for approval by the City.
6. The contractor shall call in a locations 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 involving excavation for underground facilities unless the applicant has been provided an Inquiry Identification Number by U.S.A.
7. The developer 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.
8. All embankment fill shall be compacted to minimum of 90% maximum dry density and shall be of an approved quality.
9. 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.
10. All flagged elevations shall be staked in the field by the private engineer.
11. 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 the engineer harmless from any and all liability, real or alleged, in connection with performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.
12. The concrete cover on the inside of all concrete pipe must be increased to provide a min. of 1.5" over the reinforcing when the design velocities exceed 20 fps. The concrete design strength in these reaches shall be:
fc = 5000 psi. for velocities exceeding 20 fps. and
fc = 6000 psi. for velocities exceeding 30 fps.

D	H	L/2	W 9'-4" Steel	W 9'-4" Conc
in	ft-in	ft-in	Lbs	Cu Yds
42	5-2	6-9	210	3.34



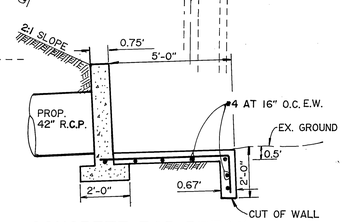
FRONT ELEV "L" HEADWALL DETAIL (8)

SECTION "L" HEADWALL DETAIL (8)



TRANSITION STRUCTURE DETAIL (6)

N.T.S.



CONCRETE PAD DETAIL (11)

N.T.S.

REVIEWED BY W.M.W.D.
SHEET 1 THROUGH 2
FOR NON-INTERFERENCE COMPLIANCE ONLY

Steven W. Appel 4/13/94
ASSOCIATE ENGINEER RCE #48109 DATE

Underground Service Alert
Call: TOLL FREE
1 - 800
422 - 4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

REGISTERED PROFESSIONAL ENGINEER — TECK C. LOW — No. 50203 — Exp. 6/30/97 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 50203
EXPIRATION DATE: 6/30/97 DATE: 3/16/94
APPROVED BY:

J.F.DAVIDSON ASSOCIATES, INC.
-CIVIL ENGINEERS - SURVEYORS - PLANNERS-

3880 LEMON ST. RIVERSIDE CA 92501 (909) 686-0844 FAX 909-686-5954
3350 SHELBY ST. ONTARIO, CA 91764 (909) 944-2881 FAX 909-944-7761
77-564 COUNTRY CLUB DR. PALM DESERT CA 92260 (619) 360-3780 FAX 619-360-3789
27349 JEFFERSON ST. TEMECULA, CA 92390 (909) 676-7710 FAX 909-699-1981

CITY BUSINESS TAX CERT. NO. 4994 EXP. DATE: 12-31-94

SCALE: AS SHOWN
DATE: NOVEMBER 1993
BENCH MARK: P.K. NAIL AND TAG ON TOP OF 35'X50'X20' HIGH GRANITE BOULDER, 100' W'LY OF TRAUTWEIN ROAD AND 0.3 MILE N'LY OF WOOD ROAD. FB 735/74 EL: 1588.453

MARK	REVISIONS	APPR.	DATE

DESIGNED BY T.C.L. DRAWN BY K.Y./C.C. CHECKED BY J.D.S.

FOLD WITH

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGR.		5/9/94
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
CHIEF F.W. ENGR.		5/9/94
STREET SERVICES		5/9/94

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 5/9/94

TRACT 27721-1

STORM DRAIN IMPROVEMENT PLAN

TITLE SHEET

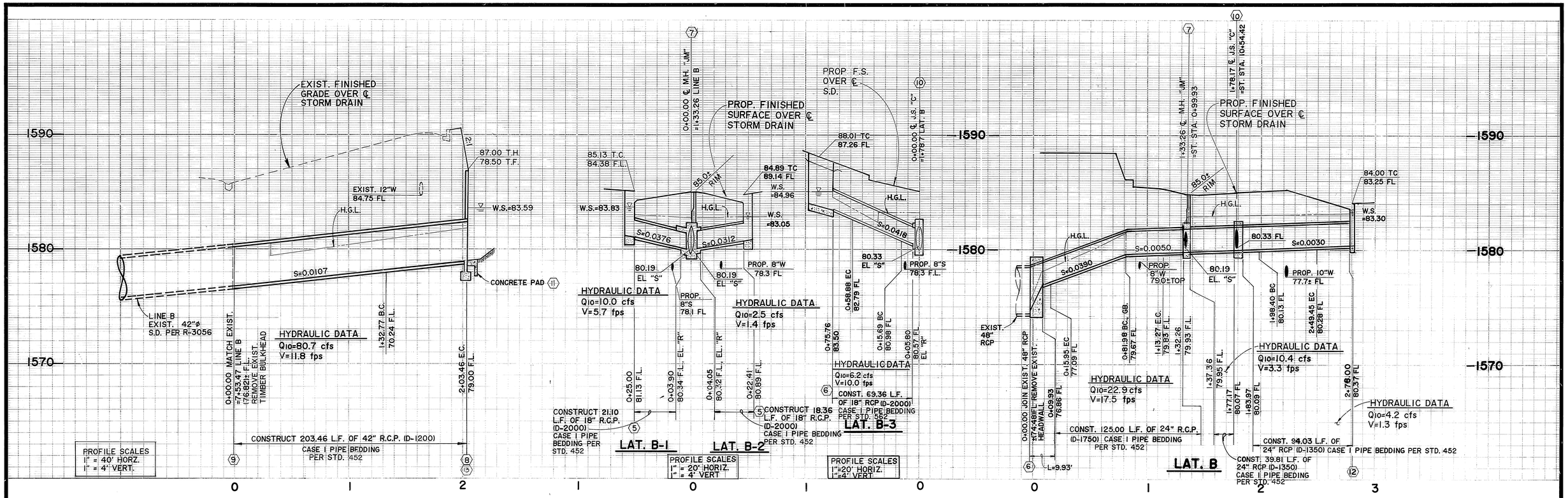
FOR: KAUFMAN & BROAD

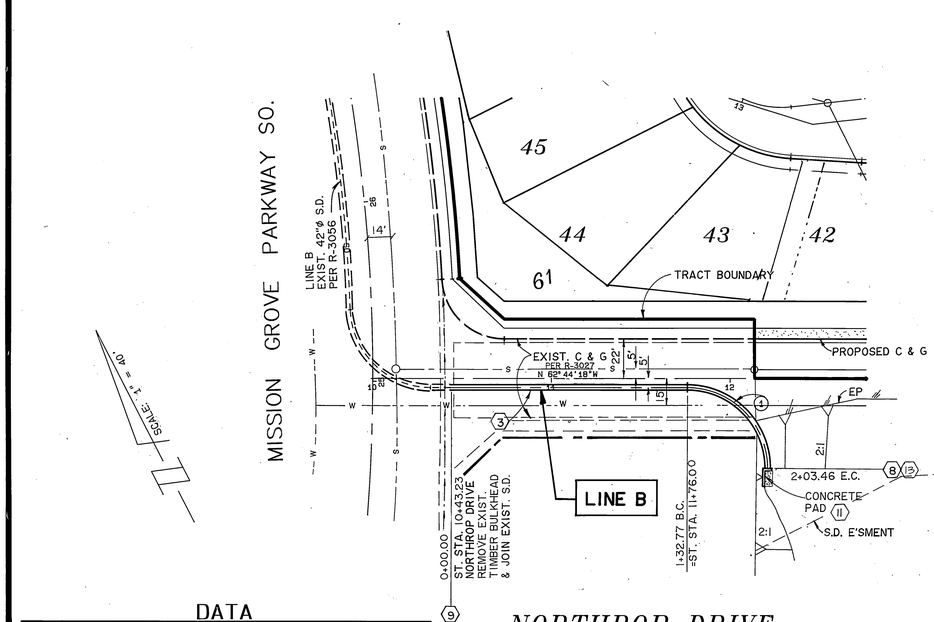
PROJECT NO. D-630

SHEET 1 OF 2

FILE NO.: 9212818

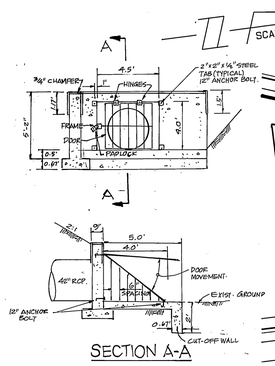
INDEXED 5-27-94 4H

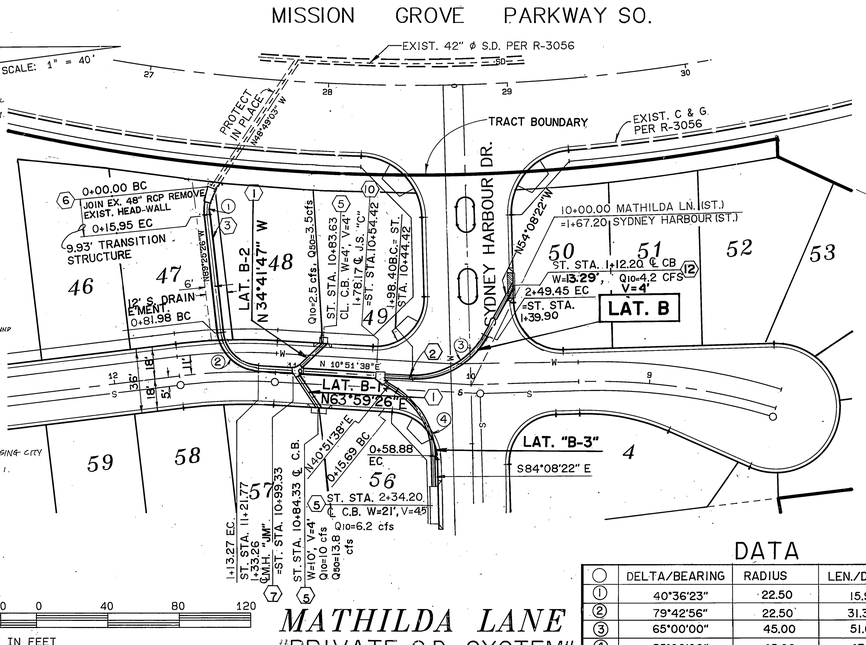




℄ J. S. "C"	
1+78.17	
A	30°00'00"
B	18"
C	5.8'
D	24"
E	5.8'
L	6.8'
EL"R"	80.57
EL"S"	80.33

℄ M.H. "JM" STA. 1+33.26		
LAT.	B-2	LAT B-1
A	45°33'25"	53°07'48"
B	18"	18"
C'	4.05'	3.9'
D1	24"	24"
D2	24"	24"
E'	4.1'	3.65'
L'	5.1'	4.65'
EL"R"	80.32	80.34
EL"S"	80.19	80.19





DATA

○	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
①	40°36'23"	22.50	15.95	8.32
②	79°42'56"	22.50	31.30	18.78
③	65°00'00"	45.00	51.05	28.67
④	55°00'00"	45.00	43.19	23.43

DATA

○	DELTA/BEARING	RADIUS	LEN./DIST.	TANGENT
①	90°00'00"	45.00	70.69	45.00

Underground Service Alert
Call: TOLL FREE
1-800 422-4133
TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER — TECK C. LO — No. 50293 — Exp. 6/30/97 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 50293
EXPIRATION DATE 6/30/97 DATE: 3/16/94
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
-CIVIL ENGINEERS - SURVEYORS - PLANNERS-
3880 LEMON ST., RIVERSIDE CA 92501 (909) 686-0844 FAX 909-685-3354
3350 SHELBY ST., ONTARIO, CA 91764 (909) 944-2691 FAX 909-944-7761
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DATE NOVEMBER 1993
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MARK	REVISIONS	APPR.	DATE

DESIGNED BY T.C.L. DRAWN BY T.L.R. CHECKED BY J.D.S.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		5/16/94
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGR.		5/16/94
STREET SERVICES		5/16/94

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 5/19/94

FRED WILL

TRACT 27721-1
STORM DRAIN IMPROVEMENT PLAN
NORTHROP DRIVE/MATHILDA LANE
FOR: REGIONAL PROPERTIES

PROJECT NO. D-630
SHEET 2 OF 2
FILE NO. 9212818

INDEXED 5-27-94 GH