GENERAL NOTES

1. 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.
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. 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.
4. QUANTITIES SHOWN ARE FOR INFORMATION ONLY AND THE CITY OF RIVERSIDE IS NOT RESPONSIBLE FOR THEIR ACCURACY.
5. THE DEVELOPER SHALL BE RESPONSIBLE FOR PRESERVING OR RE-ESTABLISHING AND REFERENCING SURVEY MONUMENTS DESTROYED, DISTURBED OR BURIED AS A RESULT OF CONSTRUCTION SHOWN HEREON.
6. ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD BY THE PRIVATE ENGINEER.
7. THE CONTRACTOR SHALL CALL IN A LOCATION REQUEST TO UNDERGROUND SERVICE ALERT (U.S.A.), 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.
8. THE CONCRETE COVER ON THE INSIDE OF ALL REINFORCED CONCRETE PIPE MUST BE INCREASED TO PROVIDE A MINIMUM OF 1½" OVER THE REINFORCING WHEN THE DESIGN VELOCITIES EXCEED 20 FEET PER SECOND. THE CONCRETE DESIGN STRENGTH IN THESE REACHES SHALL BE F'c = 5000 PSI FOR VELOCITIES EXCEEDING 20 FEET PER SECOND.
9. IF CAST-IN-PLACE IS USED FOR VELOCITIES GREATER THAN 20 F.P.S. AND LESS THAN 30 F.P.S., A 2" THICKENED INVERT SHALL BE CONSTRUCTED ON THE LOWER 120° OF THE PIPE WITH F'c ≥ 4000 P.S.I.. FOR VELOCITIES GREATER THAN 30 F.P.S., A 2" THICKENED INVERT SHALL BE CONSTRUCTED WITH F'c ≥ 5000 P.S.I..
10. CONTRACTOR SHALL LAY ALL STORM DRAIN PIPE IN ACCORDANCE WITH CITY OF RIVERSIDE STD. 452, CASE I.

STORM DRAIN PLANS

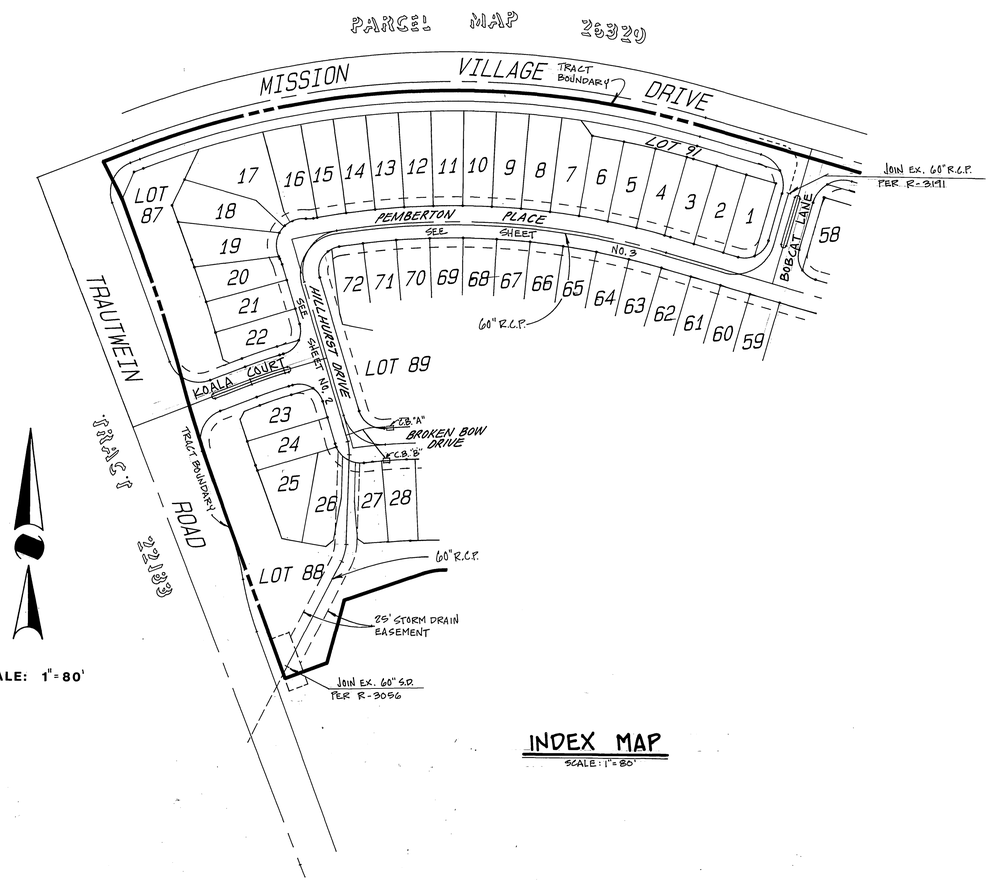
FOR

TRACT 27288

CONSTRUCTION NOTES AND QUANTITY ESTIMATES

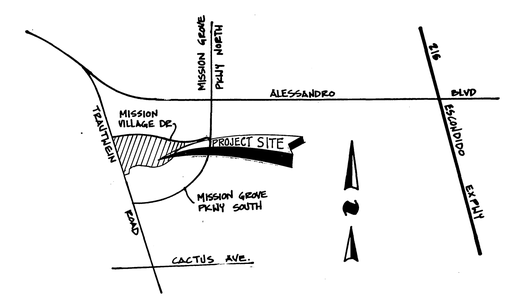
ITEM	DESCRIPTION	QUANTITY
30	INSTALL 60" R.C.P. (1400D) OR 60" C.I.P.P.	1070 L.F.
31	INSTALL 24" R.C.P. (CLASS IV)	20 L.F.
32	INSTALL 18" R.C.P. (CLASS IV)	70 L.F.
33	INSTALL 12" P.V.C. DRAIN PIPE (SCH 40)	5 L.F.
34	CONSTRUCT MANHOLE AX PER CITY OF RIVERSIDE STD. 430	3 EA.
35	CONSTRUCT MANHOLE EZ PER CITY OF RIVERSIDE STD. 431	1 EA.
36	CONSTRUCT JUCTION STRUCTURE NO. 4 PER CITY OF RIVERSIDE STD. 423 CASE 2	1 EA.
37	CONSTRUCT CATCH BASIN PER CITY OF RIVERSIDE STD. 405	3 EA.
38	REMOVE EXIST. CONCRETE HEADWALL AND RIP RAP	1 L.S.
39	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424	2 EA.
40	REMOVE EXIST. 60" R.C.P. TO NEAREST JOINT AND REPLACE	1 L.S.

* QUANTITIES SHOWN HEREON ARE FOR PERMIT AND/OR BONDING PURPOSES ONLY AND SHALL NOT BE USED FOR BIDDING, CONTRACTOR SHALL DETERMINE HIS OWN QUANTITIES AND BID A COMPLETE JOB.



INDEX MAP

SCALE: 1" = 80'



VICINITY MAP

N.T.S.

0 80' 160' 240' 320'

SCALE IN FEET

AS BUILT 7/10/95 RJM

BENCHMARK: EB-A
P.K. NAIL AND TAG ON TOP OF 35'x 50'x 20' HIGH BOULDER, 100' W'LY OF TRAUTWEIN RD. AND 0.3' MI. N'LY OF WOOD RD. FB735/74
ELEV.: 1580.453

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

REGISTERED PROFESSIONAL ENGINEER RICHARD A. SCIANNI 25917 EXPIRES 12/31/93 CIVIL STATE OF CALIFORNIA

BUSINESS TAX CERTIFICATE NO. 035973 (01-01-93)

CITY OF RIVERSIDE - PUBLIC UTILITIES ELECTRIC
APPROVED BY William F. Marcuse 10/2/92 DATE

REVIEWED BY: WESTERN MUNICIPAL WATER DISTRICT
SHEET 1 THRU 3
PRINCIPAL ENGINEER, R.C.E. 21643
DATE: 11/5/92

CSL ENGINEERING, INC.
2900 ADAMS STREET, SUITE A25
RIVERSIDE, CA. 92504 (714) 785-5122
PREPARED UNDER THE SUPERVISION OF:
RICHARD A. SCIANNI R.C.E. 25917 9-17-92 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY V.M.S. DRAWN BY R.L.M. CHECKED BY J.J.L.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/15/94	
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	12/21/92	
	12/10/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 12/21/92

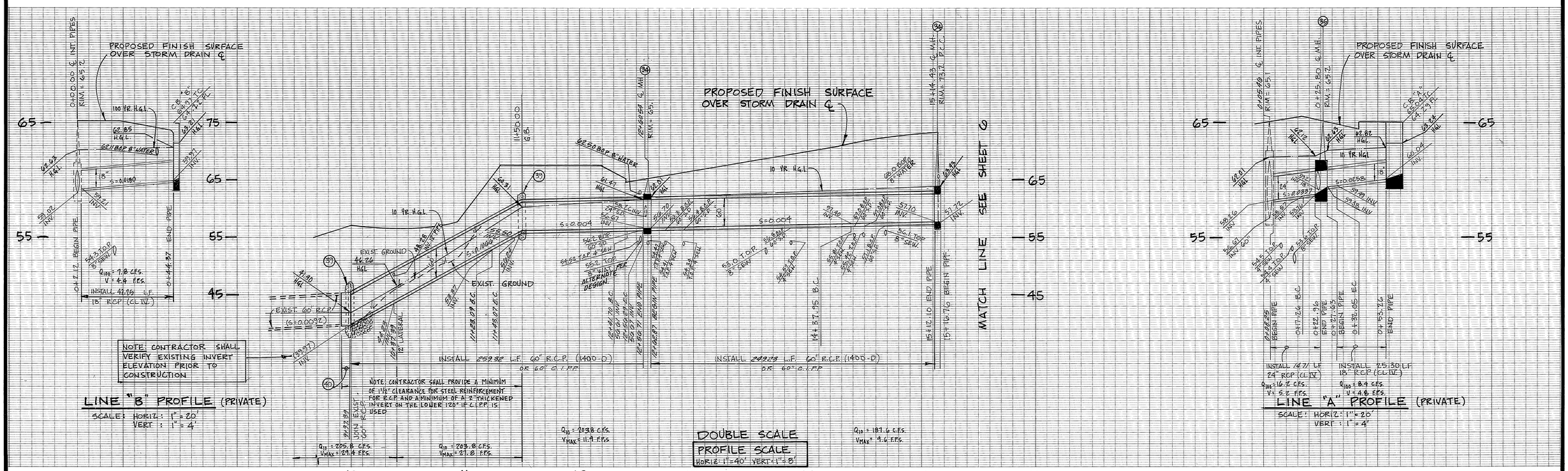
STORM DRAIN PLANS
FOR
TRACT 27288
TITLE SHEET

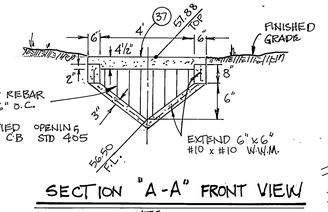
HORIZ. SCALE: 1" = 80'

ACCOUNT NO. D-618
SHEET 1 OF 3

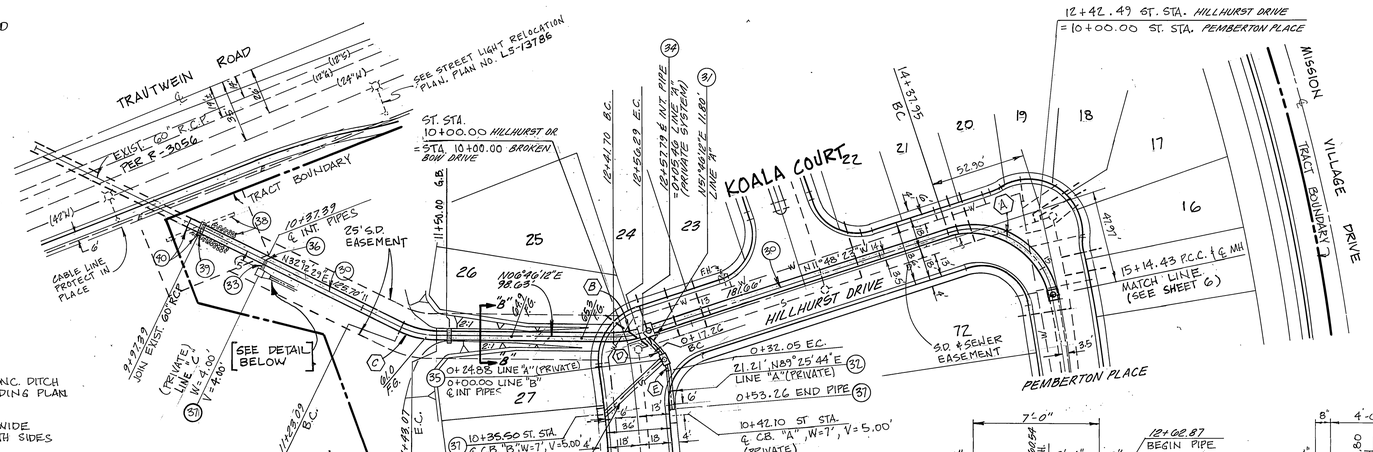
INDEXED 1-14-93

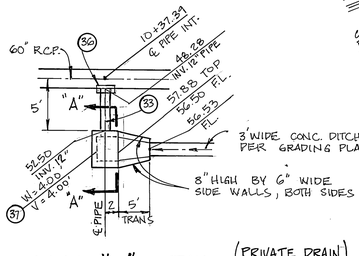
JN 307



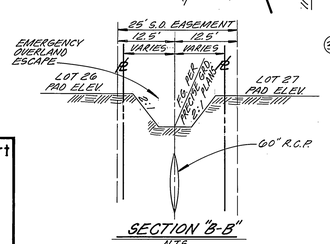


SECTION "A-A" FRONT VIEW
N.T.S.

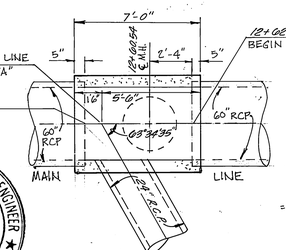




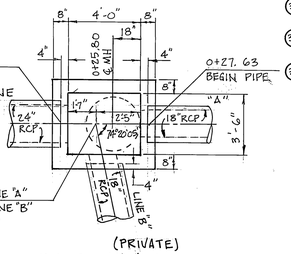
LINE "C" DETAIL (PRIVATE DRAIN LATERAL)
N.T.S.



SECTION "B-B"
N.T.S.



34 M.H. STRUCTURE @ STA. 12+57.79
SCALE: 1"=4'



35 M.H. STRUCTURE @ STA. 0+24.88
SCALE: 1"=4'

CURVE DATA

	Δ	R	L	T
A	97° 22' 19"	45.00'	76.48'	51.20'
B	18° 34' 34"	45.00'	14.59'	7.36'
C	25° 26' 17"	45.00'	19.98'	10.16'
D	19° 24' 41"	22.50'	7.62'	3.85'
E	18° 14' 51"	22.50'	7.17'	3.61'

CONSTRUCTION NOTES

30 — INSTALL 60" R.C.P. (1400 D) OR 60" C.I.P.P.
31 — INSTALL 24" R.C.P. (CLASS IV)
32 — INSTALL 18" R.C.P. (CLASS IV)
33 — INSTALL 12" P.V.C. DRAIN PIPE (SCH. 40)
34 — CONST. MANHOLE AX PER CITY OF RIVERSIDE STD. 430
35 — CONST. MANHOLE E2 PER CITY OF RIVERSIDE STD. 431
36 — CONST. JUNCTION STRUCTURE NO. 4 PER CITY OF RIV. STD. 423 CASE 2
37 — CONST. CATCH BASIN PER CITY OF RIVERSIDE STD. 405
38 — REMOVE EXIST. CONCRETE HEADWALL AND RIPRAP
39 — CONST. CONCRETE COLLAR PER CITY OF RIVERSIDE STD. 424
40 — REMOVE EXIST. 60" R.C.P. TO NEAREST JOINT AND REPLACE

NOTE:
STORM DRAIN MAINLINE IS TO BE PUBLICLY MAINTAINED. CATCH BASIN & LATERALS ARE TO BE PRIVATELY MAINTAINED.

0' 40' 80' 120' 160'
SCALE IN FEET

BENCHMARK: EB-A
B.C. NAIL AND TAG ON TOP OF 35"x50"x20" HIGH BOULDER, 100' W'LY OF TRAUTWEIN RD. AND 0.3 MI. N'LY OF WOOD RD. FB735/74

Underground Service Alert
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TWO WORKING DAYS BEFORE YOU DIG

REGISTERED PROFESSIONAL ENGINEER
RICHARD A. SCIANNI
25917
EXPIRES 12/31/93
CIVIL
STATE OF CALIFORNIA

BUSINESS TAX CERTIFICATE NO. 085973 (01-01-93)

CITY OF RIVERSIDE - PUBLIC UTILITIES ELECTRIC
APPROVED BY: William J. Morrison DATE: 10/1/92

CSL ENGINEERING, INC.
2900 ADAMS STREET, SUITE A25
RIVERSIDE, CA. 92504 (714)785-5122
PREPARED UNDER THE SUPERVISION OF:
Richard A. Scianni 5-12-92
RICHARD A. SCIANNI R.C.E. 25917 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.A.S. DRAWN BY A.P. CHECKED BY J.J.L.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/15/92	
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	12/21/92	
	12/28/92	

APPROVED BY: PUBLIC WORKS DIRECTOR
DATE 12/31/92

STORM DRAIN IMPROVEMENT PLANS FOR
TRACT 27288

HORIZ. SCALE: 1" = 40' VERT. SCALE: SEE PROFILE

ACCOUNT NO. D-618
SHEET 2 OF 3

AS BUILT 7/10/95 RJM

INDEXED 1-14-93

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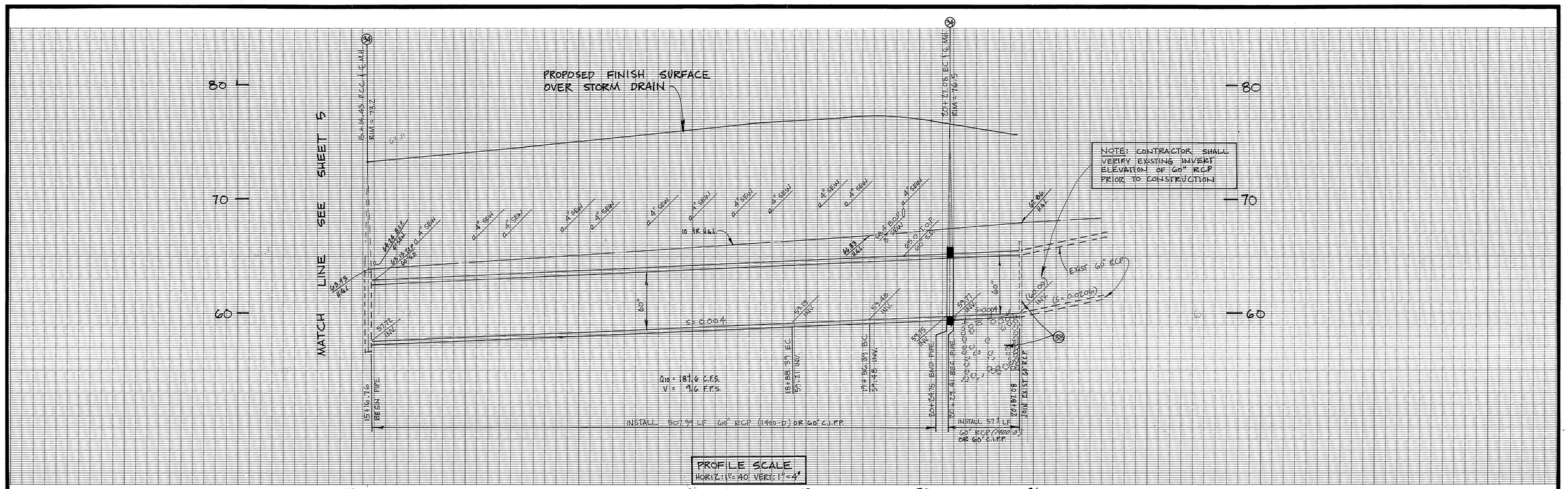

CURVE DATA				
	Δ	R	L	T
(A)	90°00'00"	45.00'	70.69'	45.00'
(B)	25°30'28"	840.00'	373.96'	190.13'

CONSTRUCTION NOTES

(30) — INSTALL 60" R.C.P. (1400 D) OR 60" C.I.P.P.
(34) — CONSTRUCT MANHOLE PER CITY OF RIVERSIDE STD 430
(38) — REMOVE EXISTING CONC. HEADWALL AND RIPRAP

0 40 80 120 160
SCALE IN FEET AS BUILT 7/10/95 RJM

BENCHMARK: E8-A
P.K. NAIL AND TAG ON TOP OF 35'x50'x 20' HIGH BOULDER, 100' W'LY OF TRAUTWEIN RD. AND 0.3' MI. N'LY OF WOOD RD. F8795/74

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RICHARD A. SCIANNI
25917
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CIVIL
STATE OF CALIFORNIA

BUSINESS TAX CERTIFICATE NO. 035973 (01-01-93)

CITY OF RIVERSIDE - PUBLIC UTILITIES ELECTRIC
William F. Marcuse 10/7/92
APPROVED BY DATE

CSL ENGINEERING, INC.
2900 ADAMS STREET, SUITE A25
RIVERSIDE, CA. 92504 (714) 785-5122
PREPARED UNDER THE SUPERVISION OF:
Richard A. Scianni 5-12-92
RICHARD A. SCIANNI R.C.E. 25917 DATE

MARK	REVISIONS	APPR.	DATE

DESIGNED BY R.A.S. DRAWN BY A.P. CHECKED BY J.J.L.

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT

APPROVED BY	DATE	BY
PRINCIPAL ENGINEER	12/15/92	
PARK DEPARTMENT	—	—
TRAFFIC DIVISION	—	—
CHIEF P. W. ENGINEER	12/21/92	
	12/18/92	

APPROVED BY
PUBLIC WORKS DIRECTOR
DATE 12/21/92

STORM DRAIN IMPROVEMENT PLANS FOR
TRACT 27288

ACCOUNT NO. D-618
SHEET 3 OF 3

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

INDEXED 1-14-93 JH

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