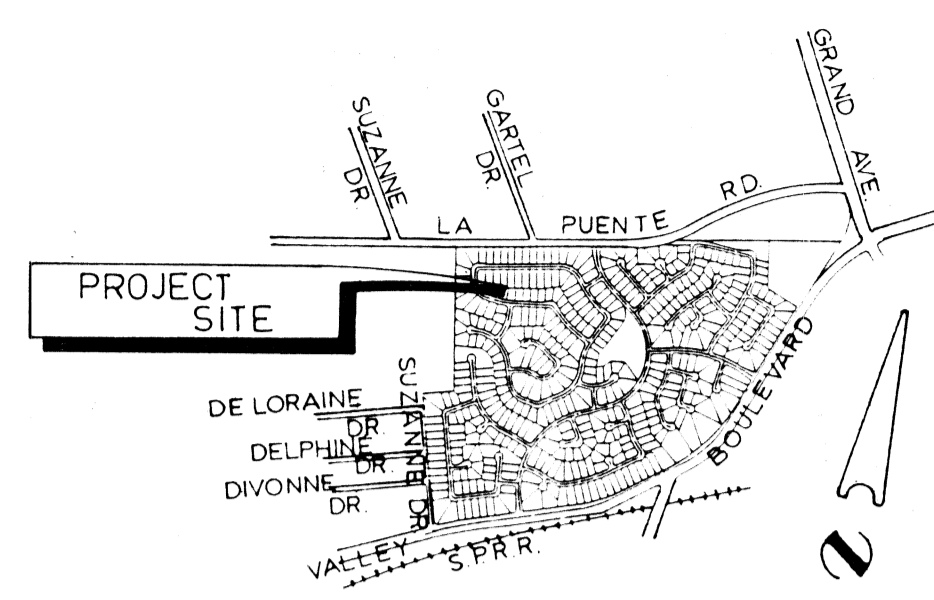


KEY MAP
SCALE: 1" = 200'

REVIEWED _____ DATE _____ SUBMITTED _____ DIVISION ENGINEER _____ HIGHWAY DIVISION _____ DATE _____ APPROVED *Donald H. ...* WALNUT CITY ENGINEER 1-29-87



VICINITY MAP

BENCH MARK:
B.M. C.G. 1781 ELEV. 617.011 R.D.B.M. TAG
NR. CTR. OF CONC. HD. WL. 24 FT. N. E.
LA PUENTE RD. 0.2 MI. W/O GRAND AVE.
COVINA QUAD. 1975.

- LIST OF STANDARD PLANS:**
- LOS ANGELES COUNTY FLOOD CONTROL DISTRICT:
 - JUNCTION STRUCTURE NO. 2 2-D 112
 - JUNCTION STRUCTURE NO. 4 2-D 193
 - MANHOLE NO. 1 2-D 102
 - MANHOLE NO. 2 2-D 184
 - MANHOLE NO. 4 2-D 113
 - CATCH BASIN NO. 1 2-D 160
 - CATCH BASIN NO. 2 2-D 162
 - CATCH BASIN NO. 3 2-D 163
 - CATCH BASIN - M.H. FRAME & COVER 2-D 156
 - CATCH BASIN - PROTECTION BAR 2-D 175
 - CATCH BASIN - OPENING DETAIL 2-D 232
 - CATCH BASIN - CONNECTION 2-D 224
 - CATCH BASIN - REINFORCEMENT 2-D 157
 - LOCAL DEPRESSION 2-D 88
 - TRANSITION STRUCTURE 2-D 235
 - CONCRETE COLLAR 2-D 393
 - LOS ANGELES COUNTY ENGINEER:
 - CONCRETE PIPE ANCHORS D-72
 - PIPE BEDDING FOR STORM DRAIN D-54
 - LOS ANGELES DISTRICT ENGINEER (CORPS OF ENGINEERS - DEPT. OF ARMY)
 - JUNCTION STRUCTURE "C" (CASE - I) WITH 3250 PSI CONCRETE Fig. A-20

GENERAL NOTES FOR STORM DRAIN CONSTRUCTION

- ALL PIPE LAID IN OPEN TRENCH SHALL BE BEDDED IN ACCORDANCE WITH L.A. COUNTY ENGINEER STD. DWG. NO. D-54.
- 24 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER (714) 595-2275.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECS FOR ALL PUBLIC WORKS CONSTRUCTION AND SUPPLEMENT, 1985 EDITION.
- ALL BACKFILL SHALL BE COMPACTED TO RELATIVE DENSITY OF 90%.
- ALL STATE AND LOCAL TRENCH SAFETY RULES WILL BE RIGIDLY ENFORCED.
- THE CONTRACTOR MUST MAINTAIN ALL TRAFFIC SIGNS IN AN UPRIGHT, READILY DISCERNIBLE POSITION AND FREE FROM OBSTRUCTIONS TO MOTORIST'S VISION, AND SHALL RESET SAME IN THE PROPER POSITION UPON COMPLETION OF CONSTRUCTION.
- EXISTING UTILITIES CROSSING THE STORM DRAIN SHALL BE SUPPORTED PER LACPCD STD. 2-D173 AS DIRECTED BY THE CITY ENGINEER.
- P.C.P. SHALL BE MANUFACTURED AND INSPECTED IN ACCORDANCE WITH SECTION 207.2.6, 2.7, 2.8 AND 2.9 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (1979 EDITION), 1981 SUPPLEMENT.
- THE CONTRACTOR SHALL FURNISH A LETTER OF CERTIFICATION FROM THE PIPE MANUFACTURER AS TO TEST RESULTS OF PIPE INSTALLED.
- ALL PIPE LENGTHS SHOWN ARE HORIZONTAL PROJECTIONS, UNLESS OTHERWISE NOTED.
- ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3250 PSI.
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615-GRADE 60.
- THIS STORM DRAIN WILL NOT BE ACCEPTED FOR MAINTENANCE UNTIL THE STREETS HAVE BEEN PAVED, MANHOLES BROUGHT UP TO GRADE, AND THE SYSTEM IS CLEANED TO THE SATISFACTION OF THE CITY ENGINEER.
- ELEVATIONS ARE IN FEET ABOVE U.S.C. G.S. MEAN SEA LEVEL DATUM OF 1929.
- FINISH ALL EXPOSED EDGES W/ 3/4" CHAMFER.
- ALL STEEL THAT IS TO BE CONTINUOUS SHALL HAVE A MINIMUM LAP AT SPLICES OF 30 BAR DIAMETERS.
- ALL PIPE BE EMBEDDED A MINIMUM OF 5 INCHES INTO HEADWALLS OR OTHER STRUCTURES.

PRIVATE ENGINEER'S NOTES TO THE CONTRACTOR
THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

R. B. Mandelker
REGISTERED CIVIL ENGINEER NO. 29438
12/4/85
DATE

PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS
1820 E. 10th Street
SANTA ANA, CALIFORNIA 92701
PHONE 714 • 835 2548
SIGNATURE *R. B. Mandelker* R. E. No. 27150
CIVIL ENGINEER

REVISIONS

REVISED STORM DRAIN LOCATION FOR LINE 'A' FROM STA. 0+00 TO STA. 3+48.29.7. CATCH BASINS 'A', 'B', 'C', 'D', 'E' @ STATIONS 3+44. REVISED QUANTITIES @ SHT. 2.

REVISED BY *[Signature]* RE. No. 4404
APPROVED *[Signature]* DATE 4/2/87

REV. CB#19, ADDED CB#19A, SHT. NO. 5
REV. LATERAL 'P', 'Q', 'R' GRADES & PROPOSED ES. @ PRESTWICK WAY, SHT. N° 6.

REVISED BY *[Signature]* RE. No. 4404
APPROVED *[Signature]* DATE 10-16-87

REVISED BY _____ RE. No. _____
APPROVED _____ DATE _____

M.T.D. 1146
CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
BENCH MARK
STANDARD NOTES
KEY MAP

HYDRAULIC ELEMENTS

TRACT NO.	DESIGNATION	STATION		Q (CFS)	PIPE SIZE	S(AVG) CONST. SL	V(AVG) (FPS)	FREQUENCY
		FROM	TO					
32958	LINE "A"	0+42.81	2+00.00	142.2	48"	0.0001	11.3	25
	LINE "A"	1+43.00	1+60.73	131.0	48"	0.0001	10.5	25
	LINE "A"	1+60.73	1+70.73	130.4	48"	0.0001	10.3	25
	LINE "A"	1+70.73	3+04.03	128.8	48"	0.0001	13.5	25
	LINE "A"	3+08.60	4+56.70	124.0	42"	0.0002	16.5	25
	LINE "A"	4+56.70	5+71.38	122.2	42"	0.0002	16.4	25
	LINE "A"	5+70.04	6+28.00	117.0	42"	0.0002	16.2	25
	LINE "A"	6+38.00	7+25.00	110.0	42"	0.0002	15.3	25
	LINE "A"	7+25.00	9+40.22	110.0	42"	0.0002	20.0*	25
	LINE "A"	9+44.88	11+28.23	99.0	42"	0.0002	10.4	25
	LINE "A"	11+28.23	15+73.14	95.0	42"	0.0002	9.9	50
	LINE "A"	15+78.64	17+51.00	79.0	42"	0.0002	10.1	50
	LINE "A"	17+55.72	20+35.62	78.0	42"	0.0002	11.4	50
	LINE "A"	20+40.28	22+25.09	73.0	42"	0.0002	9.65	50
	LAT "A"	0+01.50	0+84.62	13.1	24"	0.0002	8.9	25
	LAT "B"	0+01.50	0+48.15	2.6	18"	0.0002	2.7	25
	LAT "C"	0+01.50	0+21.02	2.0	18"	0.0002	1.4	25
	LAT "D"	0+01.50	1+80.98	10.0	24"	0.0002	5.8	50
	LAT "E"	0+03.13	0+50.22	3.3	18"	0.0002	6.7	25
	LAT "F"	0+01.75	0+64.30	7.7	21"	0.0002	7.8	25
	LAT "G"	0+01.50	0+58.42	10.3	21"	0.0002	8.6	25
	LAT "H"	0+01.75	0+53.62	12.3	24"	0.0002	9.9	25
	LAT "I"	0+01.75	0+42.50	4.0	18"	0.0002	2.3	25
	LAT "J"	0+01.75	0+18.83	1.8	18"	0.0002	1.3	25
	LAT "K"	0+01.75	0+26.50	3.0	18"	0.0002	3.0	25
	LAT "L"	0+01.75	0+74.0	10.7	18"	0.0002	6.5	25
	LAT "M"	0+01.75	0+37.31	9.2	18"	0.0002	5.6	25
	LINE "B"	0+30.00	1+50.00	99.1	60"	0.0002	5.0	25
	LINE "B"	1+50.00	3+08.70	99.1	60"	0.0002	5.0	25
	LINE "B"	3+08.37	7+21.44	99.1	60"	0.0002	5.0	25
	LINE "B"	7+21.44	8+84.04	96.3	60"	0.0002	4.9	25
	LINE "B"	8+80.44	10+22.02	93.8	42"	0.0002	10.2	25
	LINE "B"	10+22.02	12+41.20	87.0	42"	0.0002	12.1	25
	LINE "B"	12+41.20	12+84.99	81.2	42"	0.0002	18.3	25
	LINE "B"	12+80.99	14+22.08	57.9	27"	0.0002	17.8	25
	LINE "B"	14+22.08	14+21.29	45.8	27"	0.0002	14.9	25
	LINE "B"	14+25.01	15+25.88	26.2	24"	0.0002	14.0	25
	LINE "B"	15+25.88	15+05.88	17.3	21"	0.0002	9.2	25
	LAT "O"	0+03.50	0+17.30	5.4	18"	0.0002	3.6	25
	LAT "M"	0+02.50	0+17.30	2.0	18"	0.0002	1.1	25
	LAT "N"	0+02.50	0+42.82	2.3	18"	0.0002	1.3	25
	LAT "P"	0+04.43	0+52.59	30.9	30"	0.0002	6.7	25
	LAT "P"	0+52.59	2+32.30	16.1	30"	0.0002	4.9	25
	LAT "Q"	0+03.15	0+18.02	10.8	18"	0.0002	6.1	25
	LAT "R"	0+03.15	0+31.40	5.0	18"	0.0002	3.2	25
	LAT "S"	0+01.75	0+52.18	5.8	18"	0.0002	8.3	25
	LAT "U"	0+03.63	0+61.62	16.0	24"	0.0002	9.4	25
	LAT "V"	0+01.70	0+42.50	10.1	21"	0.0002	4.2	25
	LAT "W"	0+02.99	0+24.97	19.5	24"	0.0002	11.0	25
	LAT "W"	0+45.07	0+57.37	12.2	18"	0.0002	12.2	25
	LAT "T"	0+01.75	0+47.25	6.6	18"	0.0002	12.4	25
	LAT "T"	0+54.25	0+90.90	5.5	18"	0.0002	10.5	25

CONT'D
HYDRAULIC ELEMENTS

TRACT NO.	DESIGNATION	STATION		Q (CFS)	PIPE SIZE	S(AVG) CONST. SL	V(AVG) (FPS)	FREQUENCY
		FROM	TO					
32958	LINE "C"	13+27.70	13+52.30	160.0	48"	0.0124	12.7	50
	LINE "C"	13+52.30	13+60.00	129.0	48"	0.0124	9.9	50
	LINE "C"	13+60.00	13+67.38	121.0	48"	0.0124	9.6	50
	LINE "C"	13+67.38	18+17.07	121.0	48"	0.0124	14.2	50
	LINE "C"	18+22.99	20+50.00	121.0	42"	0.0124	22.0*	50
	LINE "C"	20+50.00	22+17.07	121.0	42"	0.0124	22.0*	50
	LINE "C"	22+22.99	24+70.00	121.0	42"	0.0124	16.2	50
	LINE "C"	24+70.00	26+12.09	121.0	42"	0.0124	14.5	50
	LINE "C"	26+17.91	26+64.20	120.0	42"	0.0124	14.8	50
	LINE "C"	26+64.20	28+76.40	118.0	42"	0.0124	13.8	50
	LAT "Y"	0+02.25	0+17.25	34.8	30"	0.0024	2.7	50
	LAT "Y"	0+17.25	0+50.00	34.8	30"	0.0024	18.9	50
	LAT "Y"	0+50.00	2+13.00	34.8	30"	0.0024	2.3	50
	LAT "Y"	2+13.00	3+02.63	11.6	27"	0.0024	6.3	50
	LAT "BB"	0+00.00	0+50.50	11.6	27"	0.0024	7.6	25
	LAT "X"	0+03.20	0+02.10	4.7	18"	0.0024	2.7	25
	LAT "AA"	0+02.80	0+40.85	0.5	18"	0.0024	1.4	25
	LAT "Z"	0+02.80	0+02.10	2.2	18"	0.0024	2.5	25
	LINE "D"	3+32.00	3+37.88	15.0	4"x2 RCB	0.0004	4.9	25
	LINE "D"	3+37.88	2+84.04	9.9	4"x2 RCB	0.0004	2.3	25
	LINE "D"	2+76.21	2+40.36	9.9	24"	0.0004	16.7	25
	LINE "D"	2+40.36	2+00.36	9.9	24"	0.0004	23.0*	25
	LINE "D"	2+00.36	0+68.82	9.9	24"	0.0004	19.9	25
	LINE "D"	0+68.82	0+00.00	4.3	18"	0.0004	3.5	25
	LAT "C"	0+05.00	0+09.17	7.4	18"	0.0004	4.2	25

CONSTRUCTION NOTES & QUANTITY ESTIMATE:

DESCRIPTION	QUANTITY	UNIT
CONST. 60" R.C.P.	801	L.F.
CONST. 54" R.C.P.	478	L.F.
CONST. 48" R.C.P.	3050	L.F.
CONST. 42" R.C.P.	430	L.F.
CONST. 36" R.C.P.	283	L.F.
CONST. 30" R.C.P.	856	L.F.
CONST. 27" R.C.P.	10	L.F.
CONST. 24" R.C.P.	435	L.F.
CONST. 18" R.C.P.	2	EA.
CONST. JUNCTION STRUCTURE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D112	2	EA.
CONST. JUNCTION STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193	2	EA.
CONST. JUNCTION STRUCTURE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D102	4	EA.
CONST. MANHOLE NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D184	1	EA.
CONST. MANHOLE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D183	1	EA.
CONST. MANHOLE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D113	4	EA.
CONST. CATCH BASIN NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D160	5	EA.
CONST. CATCH BASIN NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D162	29	EA.
CONST. CATCH BASIN NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D163	25	EA.
CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D164	1	EA.
CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88	7	EA.
CONST. TRANSITION STRUCTURE PER L.A.C.F.C.D. STD. NO. 2-D235	1	EA.
CONST. CONCRETE COLLAR PER L.A.C.F.C.D. STD. NO. 2-D162	7	EA.
CONST. CONCRETE PIPE ANCHORS PER L.A. COUNTY ENGINEER STD. NO. D-72	2	EA.
CONST. JUNCTION STRUCTURE "C" CASE I PER DETAIL ON SHT. NO. 9	144	L.F.
CONST. 21" R.C.P.	87	L.F.
CONST. 4"x2 R.C.B.	1	EA.
CONST. TRANSITION STRUCTURE PER DETAIL ON SHT. NO. 13	1	EA.
CONST. JUNCTION STRUCTURE NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D180	1	EA.

* THE PIPE IS TO BE MANUFACTURED WITH 1/2" ADDITIONAL CONCRETE THICKNESS OVER THE INVERT STEEL.

PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS
1820 E. 19th Street
SANTA ANA, CALIFORNIA 92701
PHONE 714 • 836 2548
SIGNATURE *R. B. Madole* R. E. No. 29486
CIVIL ENGINEER

REVISIONS
REVISED QUANTITIES PER REVISION
& @ SHTS. 3 & 4.
REVISED BY *J. Madole* RE. No. 14814
APPROVED *R. Hays* DATE 7/2/87

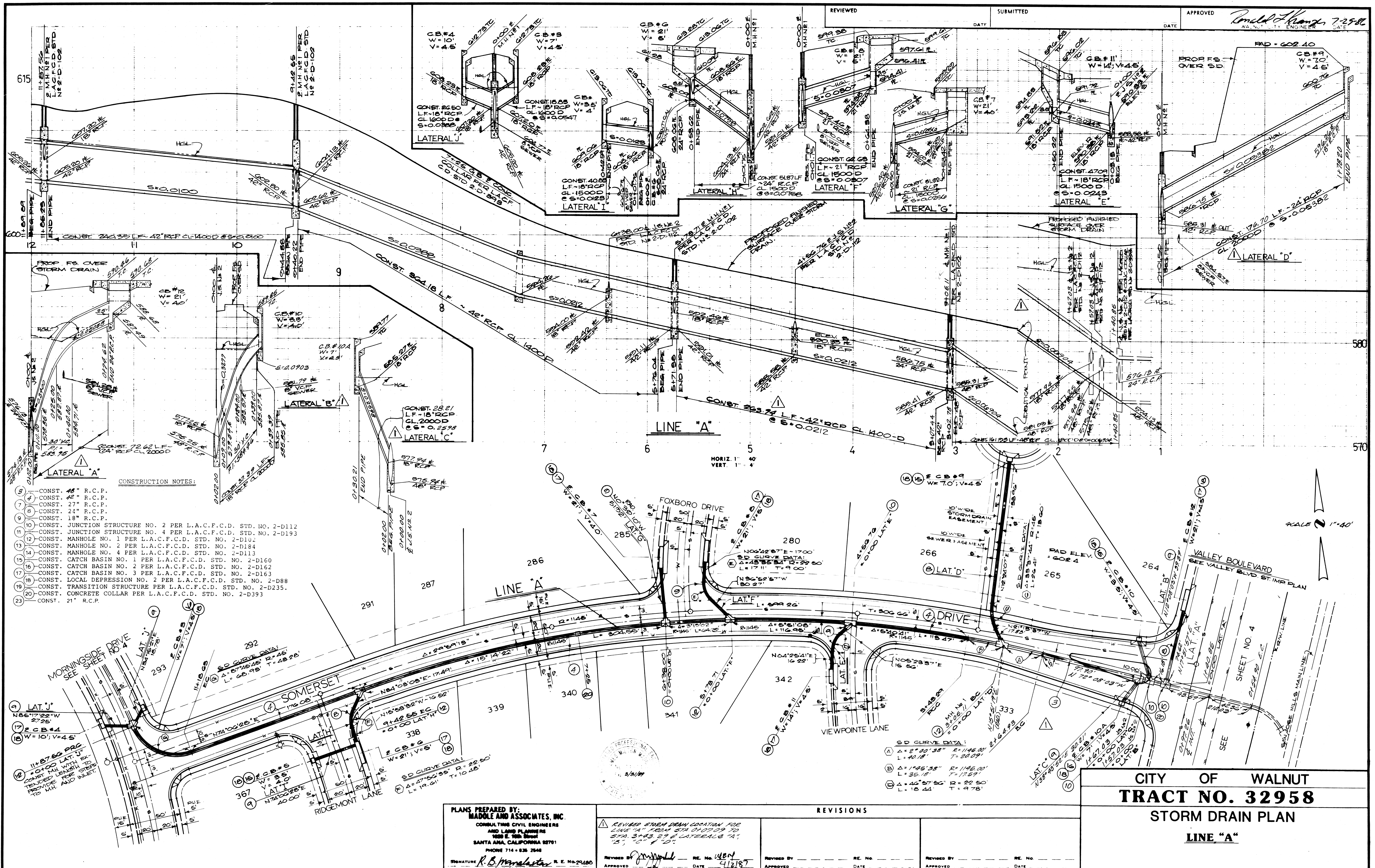
REV. QUANTITIES & HYDRAULIC ELEMENTS
& LATERAL "T"
REVISED BY *J. Madole* RE. No. 14814
APPROVED *R. Hays* DATE 7/2/87

REVISED BY _____ RE. No. _____
APPROVED _____ DATE _____

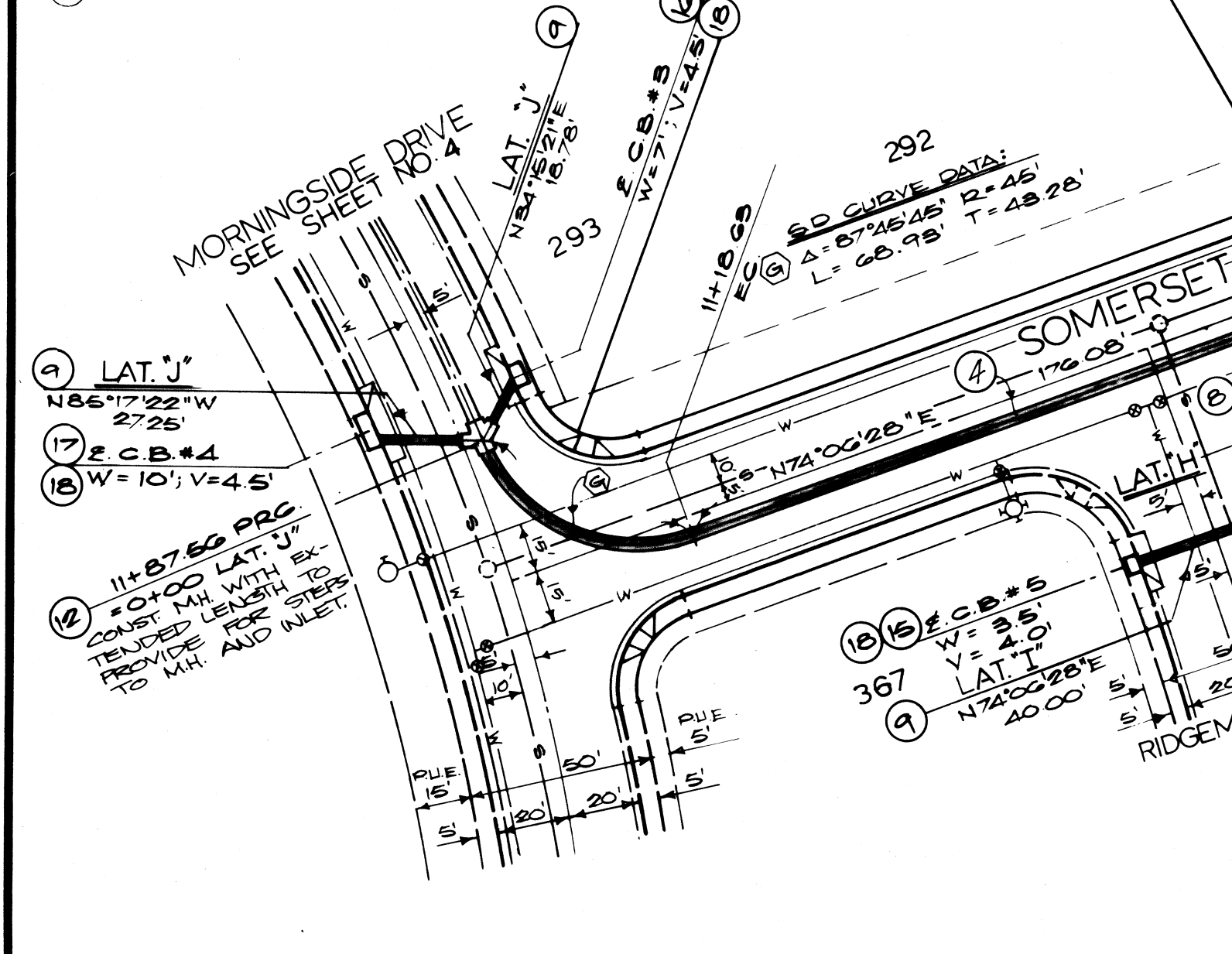
CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
HYDRAULIC ELEMENTS,
CONSTRUCTION NOTES
QUANTITY ESTIMATE

SHT 2 of 13 SHTS

153 B



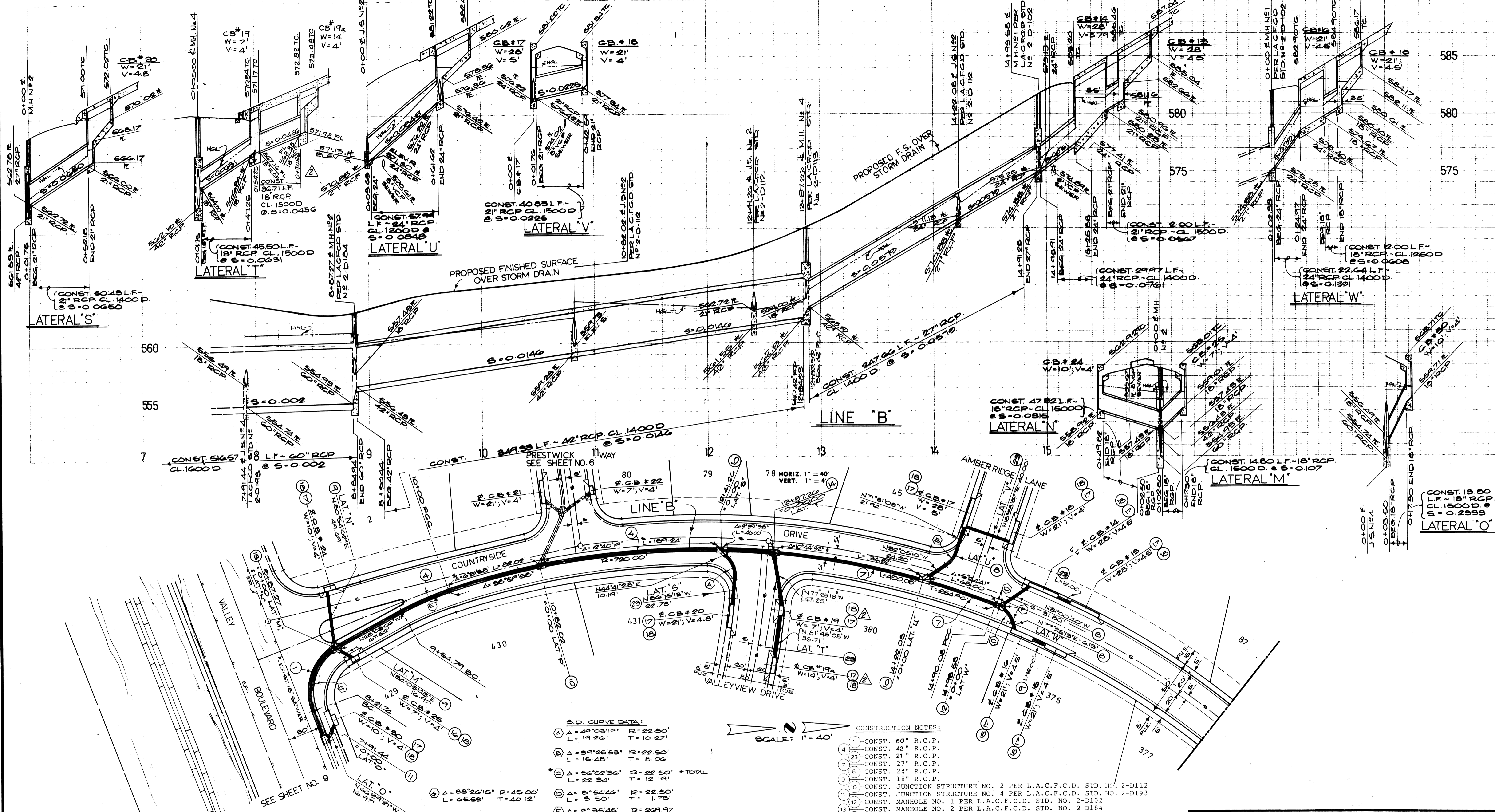
- CONSTRUCTION NOTES:**
1. CONST. 48" R.C.P.
 2. CONST. 42" R.C.P.
 3. CONST. 27" R.C.P.
 4. CONST. 24" R.C.P.
 5. CONST. 18" R.C.P.
 6. CONST. JUNCTION STRUCTURE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D112
 7. CONST. JUNCTION STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193
 8. CONST. MANHOLE NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D102
 9. CONST. MANHOLE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D184
 10. CONST. MANHOLE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D113
 11. CONST. CATCH BASIN NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D160
 12. CONST. CATCH BASIN NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D162
 13. CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163
 14. CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88
 15. CONST. TRANSITION STRUCTURE PER L.A.C.F.C.D. STD. NO. 2-D235.
 16. CONST. CONCRETE COLLAR PER L.A.C.F.C.D. STD. NO. 2-D393
 17. CONST. 21" R.C.P.



PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 AND LAND PLANNERS
 1600 E. 10th Street
 SANTA ANA, CALIFORNIA 92701
 PHONE 714 • 836 2646

REVISIONS	
1	REVISED STORM DRAIN LOCATION FOR LINE 'A' FROM STA 340.00 TO STA 343.29 & LATERALS 'A', 'B', 'C' & 'D'
REVISION NO.	RE. NO.
DATE	DATE

CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
LINE "A"



560
555
7

585
580
575

S.D. CURVE DATA:

A	Δ = 49°03'19"	R = 22.50'	L = 19.22'	T = 10.21'
B	Δ = 89°26'53"	R = 22.50'	L = 15.48'	T = 8.06'
C	Δ = 66°52'36"	R = 22.50'	L = 22.24'	T = 12.19'
D	Δ = 88°22'16"	R = 45.00'	L = 66.68'	T = 40.12'
E	Δ = 9°35'45"	R = 22.50'	L = 46.21'	T = 22.66'
F	Δ = 47°57'50"	R = 22.50'	L = 18.24'	T = 10.01'

* TOTAL

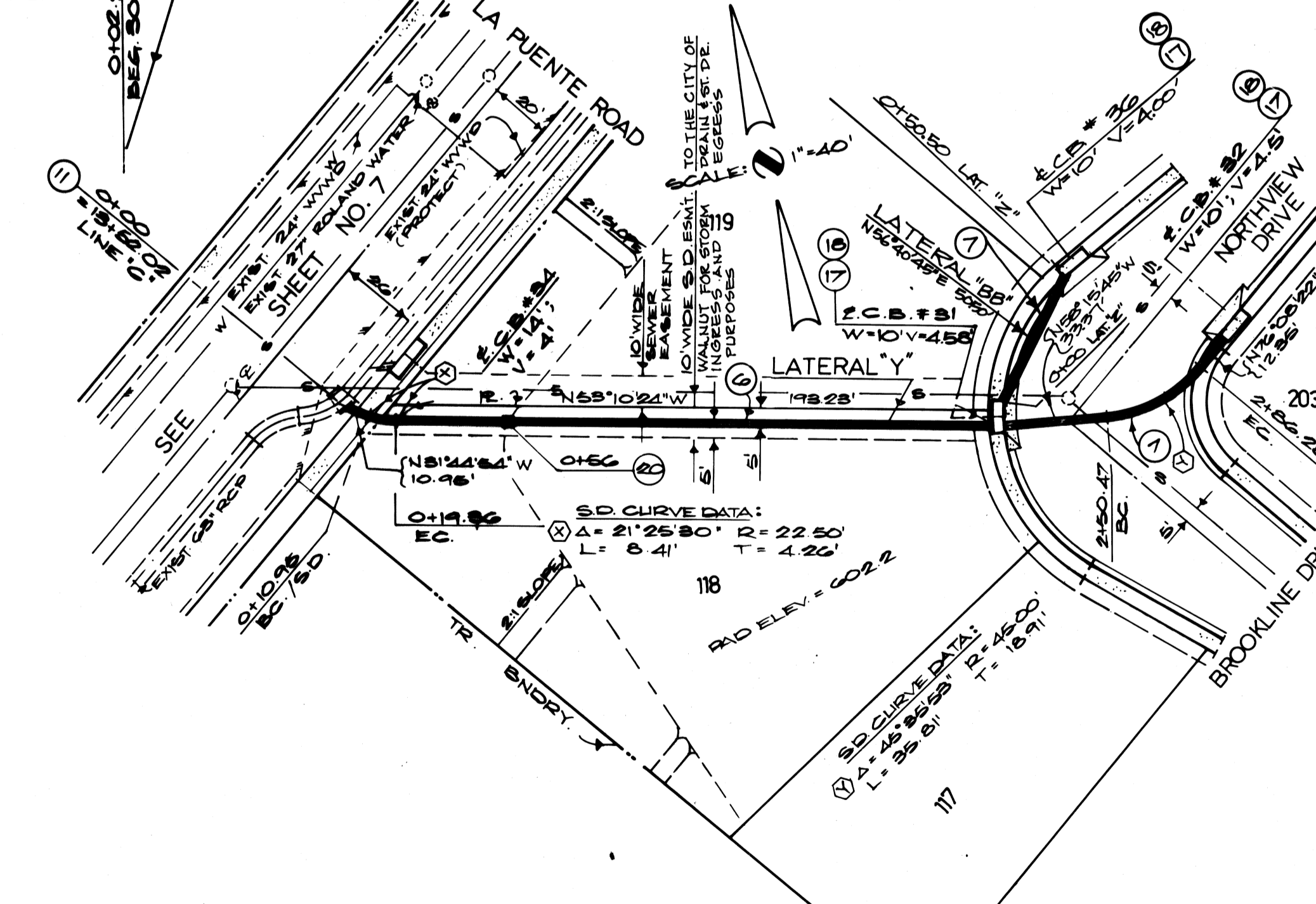
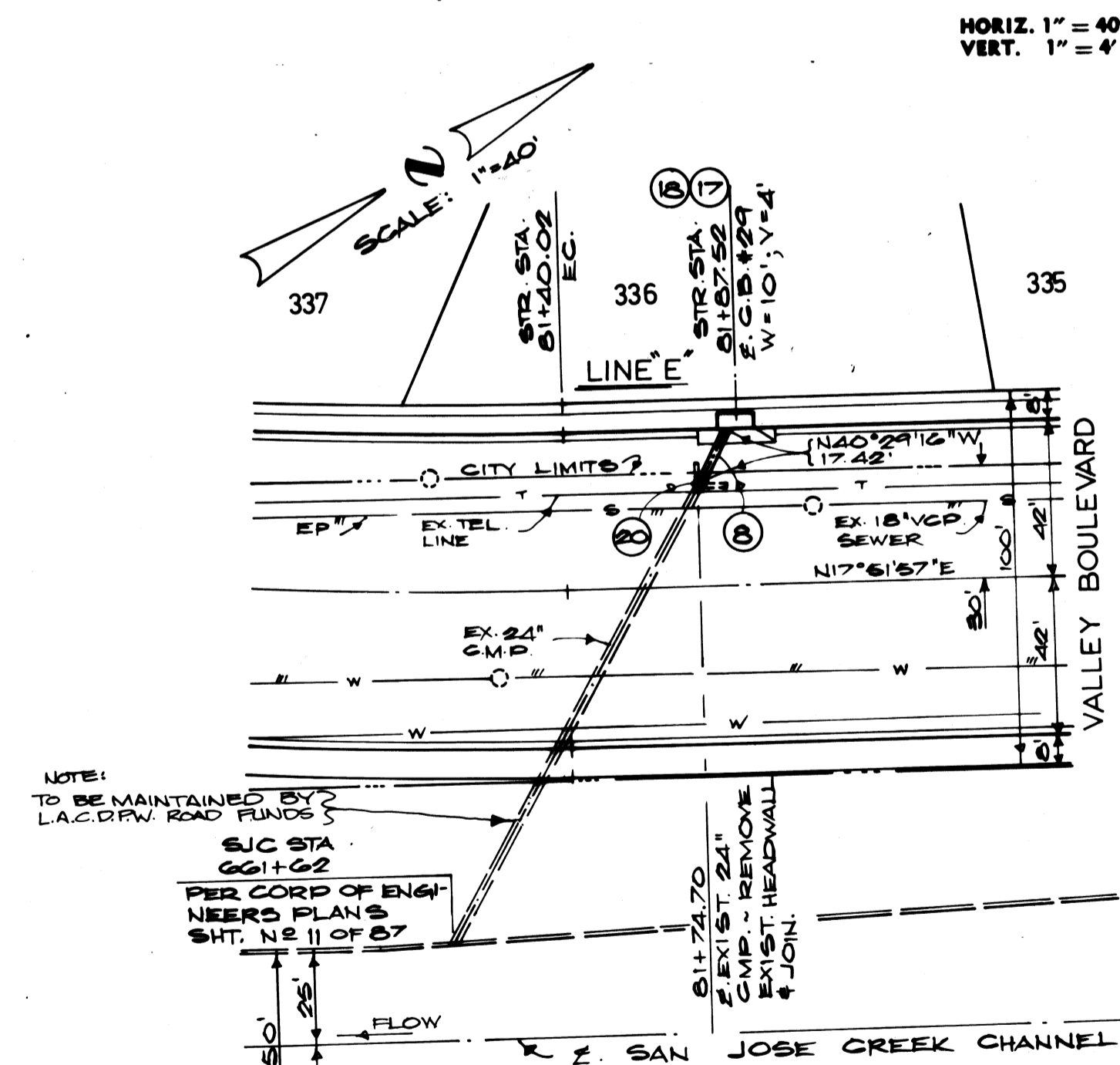
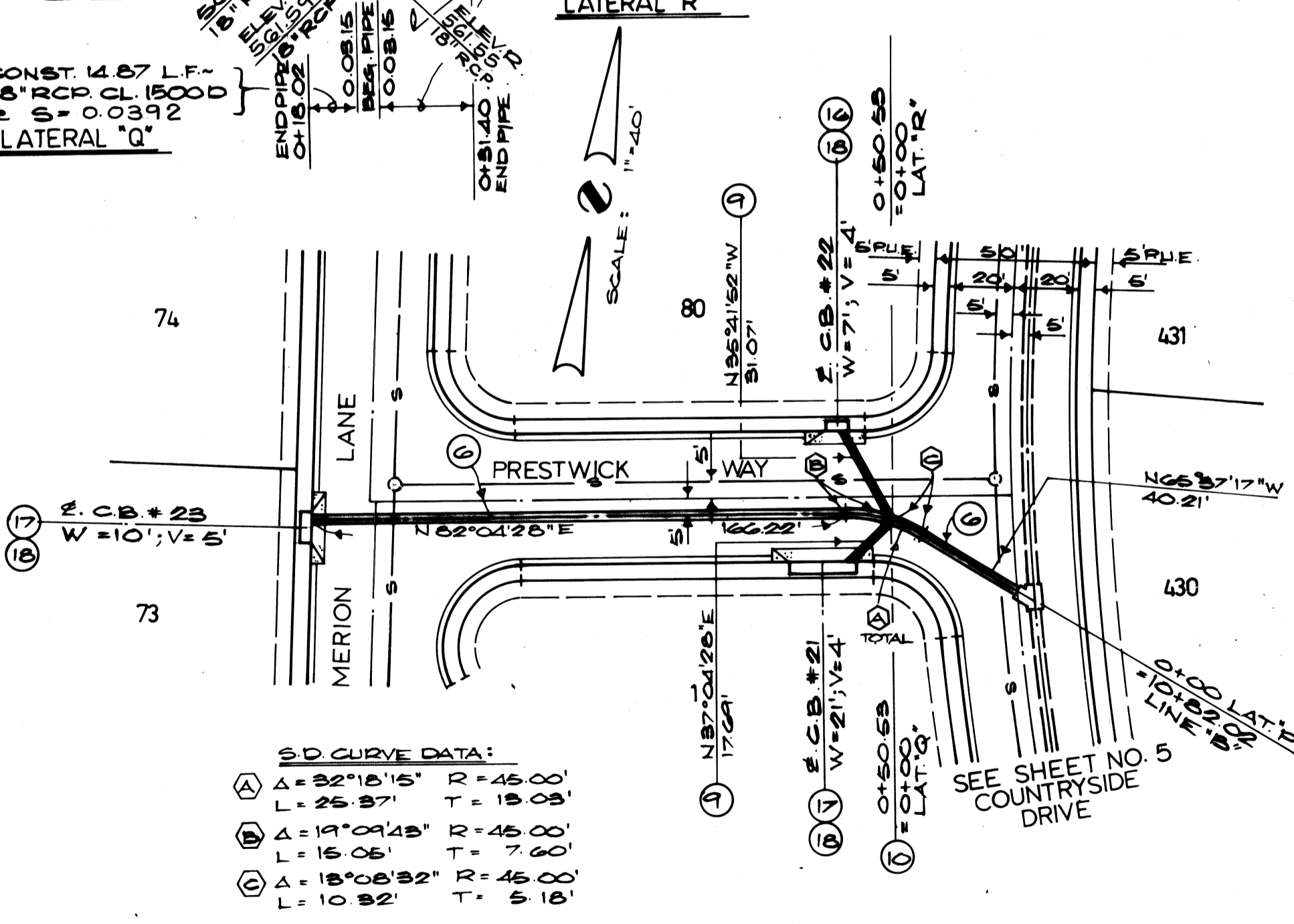
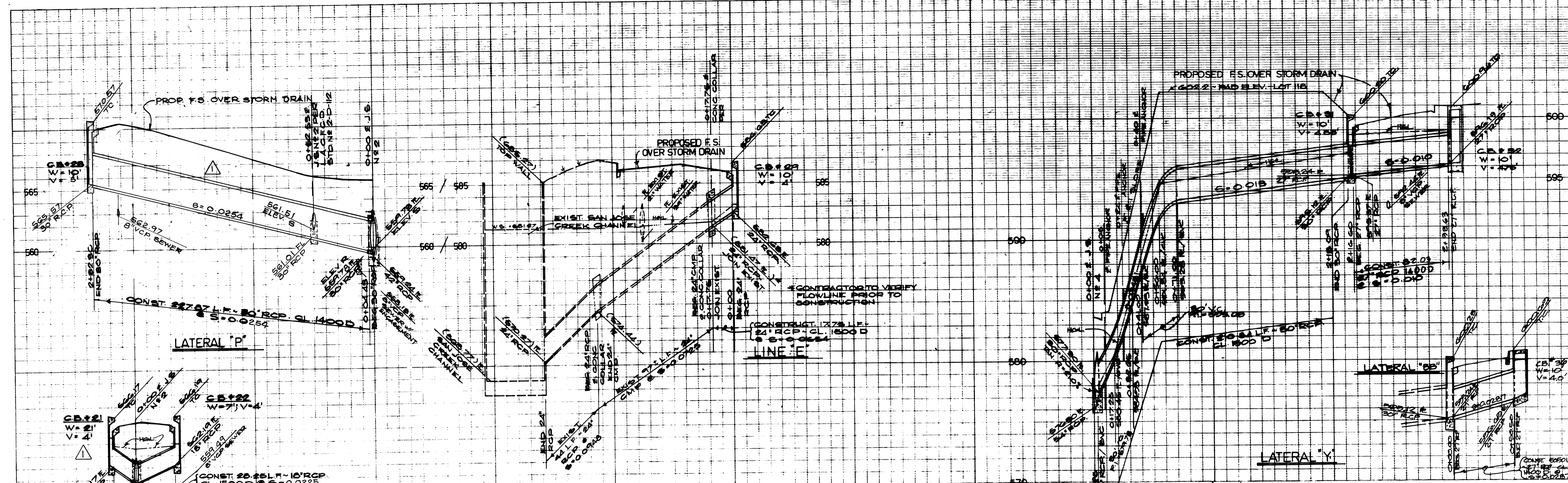
- CONSTRUCTION NOTES:
- 1- CONST. 60" R.C.P.
 - 2- CONST. 42" R.C.P.
 - 3- CONST. 21" R.C.P.
 - 4- CONST. 27" R.C.P.
 - 5- CONST. 24" R.C.P.
 - 6- CONST. 18" R.C.P.
 - 7- CONST. JUNCTION STRUCTURE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D112
 - 8- CONST. JUNCTION STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193
 - 9- CONST. MANHOLE NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D102
 - 10- CONST. MANHOLE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D184
 - 11- CONST. MANHOLE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D113
 - 12- CONST. CATCH BASIN NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D160
 - 13- CONST. CATCH BASIN NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D162
 - 14- CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163
 - 15- CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88

REVISIONS

REVISIONS	REVISIONS	REVISIONS	REVISIONS
Δ REVISED CB #19 & ADDED CB #19 & ON PLAN & PROFILE.	REVISED BY <i>[Signature]</i> RE. No. 14814	REVISED BY _____ RE. No. _____	REVISED BY _____ RE. No. _____
APPROVED <i>[Signature]</i> DATE 12-13-83	APPROVED _____ DATE _____	APPROVED _____ DATE _____	APPROVED _____ DATE _____

PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS
1830 E. 19th Street
SANTA ANA, CALIFORNIA 92701
PHONE 714-835-2548
SIGNATURE *R.B. Madole* R.E. No. 21438
CIVIL ENGINEER

CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
LINE "B"

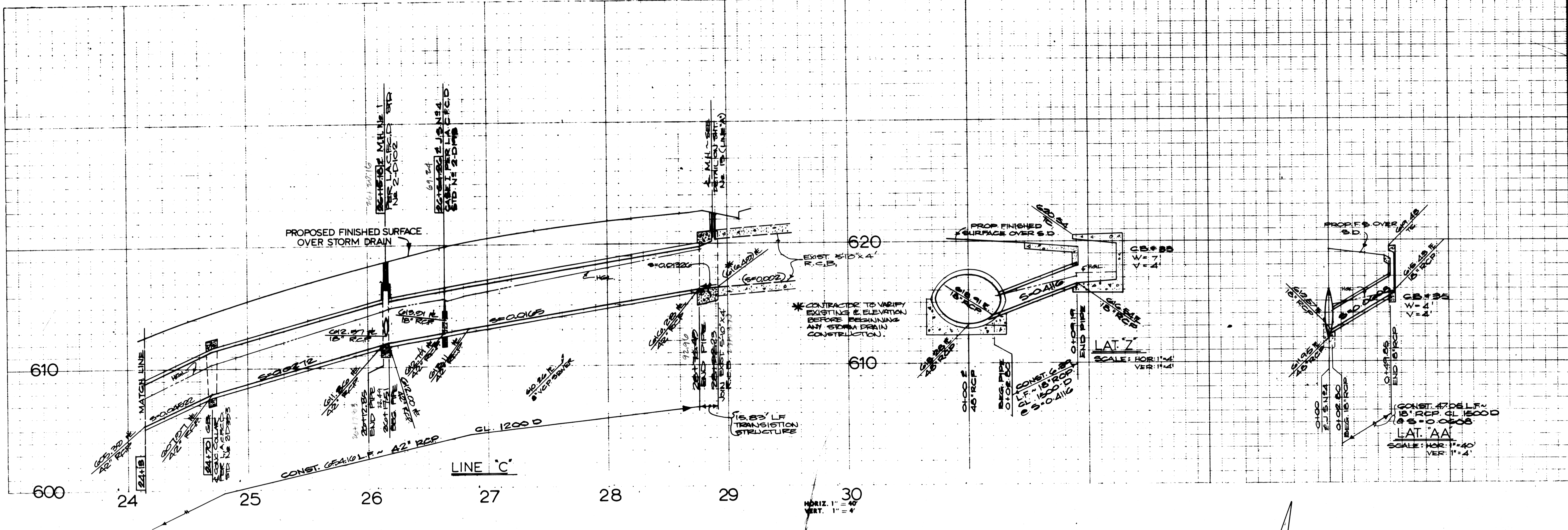


- CONSTRUCTION NOTES:**
- 6. CONST. 30" R.C.P.
 - 7. CONST. 27" R.C.P.
 - 8. CONST. 24" R.C.P.
 - 9. CONST. 18" R.C.P.
 - 10. CONST. JUNCTION STRUCTURE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D112
 - 11. CONST. JUNCTION STRUCTURE NO. 4 PER L.A.C.F.C.D. STD. NO. 2-D193
 - 16. CONST. CATCH BASIN NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D162
 - 17. CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163
 - 18. CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88
 - 20. CONST. CONCRETE COLLAR PER L.A.C.F.C.D. STD. NO. 2-D393
 - 21. CONST. CONCRETE PIPE ANCHORS PER L.A. COUNTY ENGINEER STD. NO. D-72

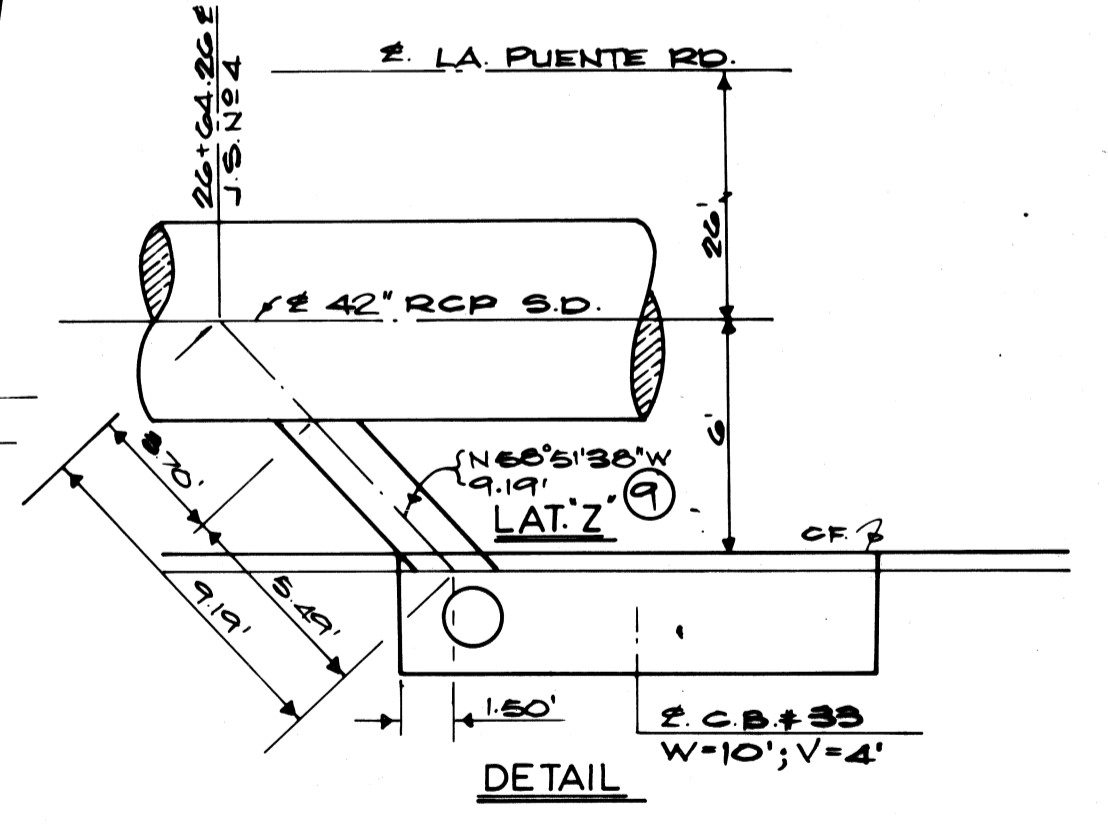
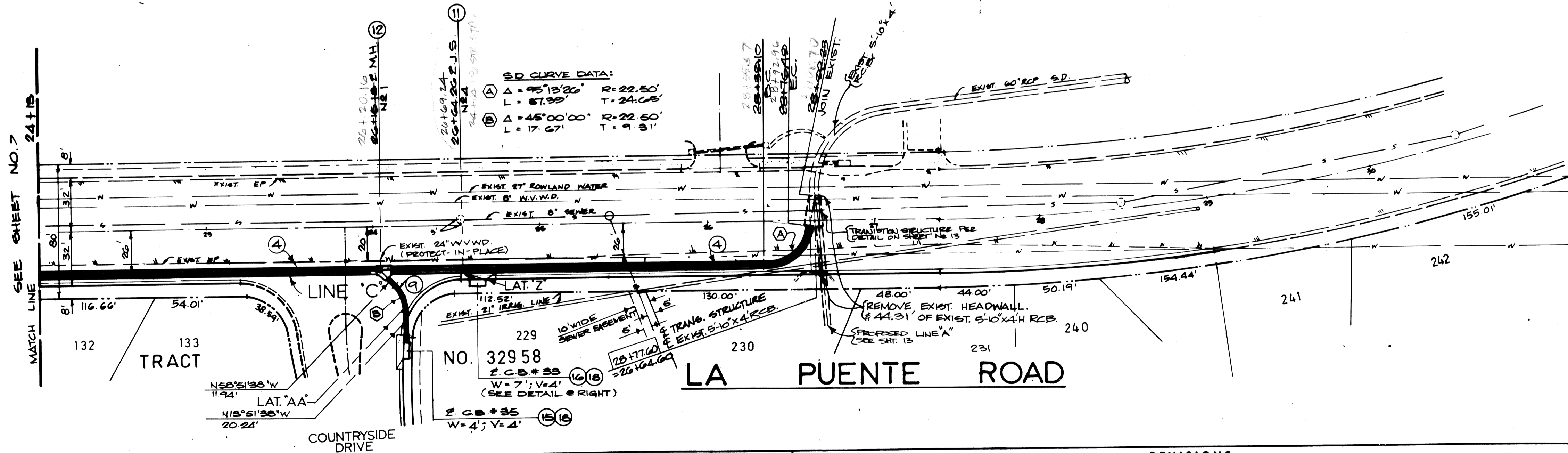
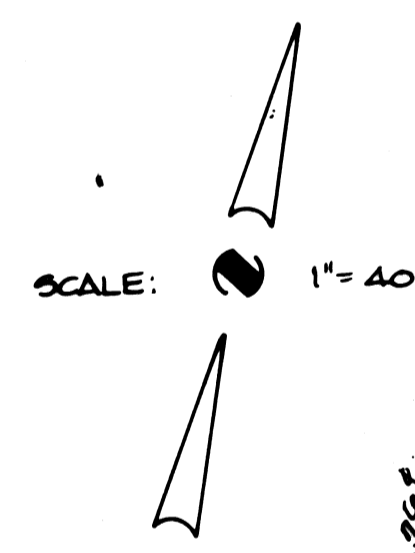
PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 1501 N. ...
 SANTA ANA, CALIFORNIA 92701
 PHONE 714-836-2548

REVISIONS	
REV. LATERAL "P", "Q", "R" GRADES & PROP. F.S. @ PRESTWICK WAY	8-31-87
REVISED BY: <i>[Signature]</i>	RE. No. <i>4014</i>
APPROVED BY: <i>[Signature]</i>	DATE: <i>10-28-87</i>

CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
LINE "E"



EXIST CITY HALL & COMMUNITY CENTER SITE

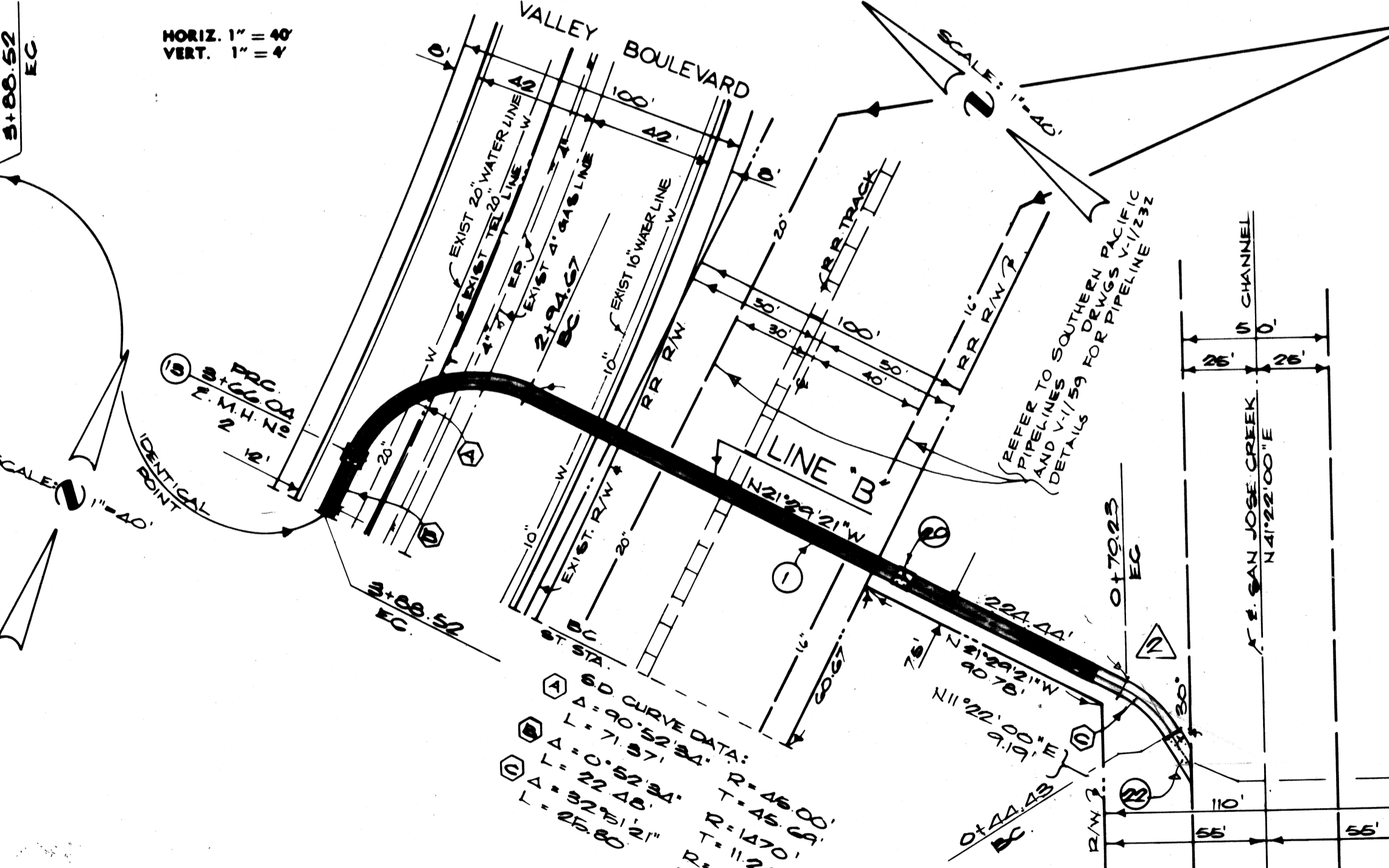
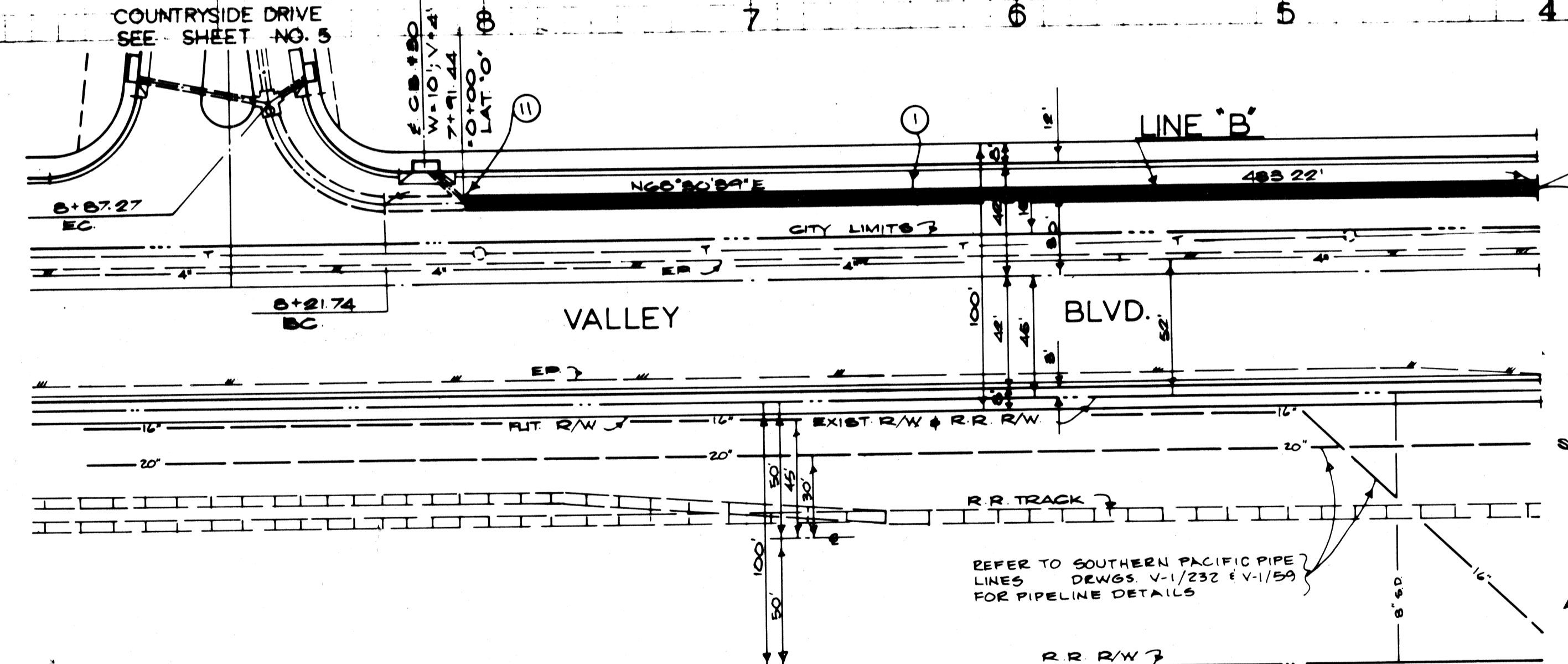
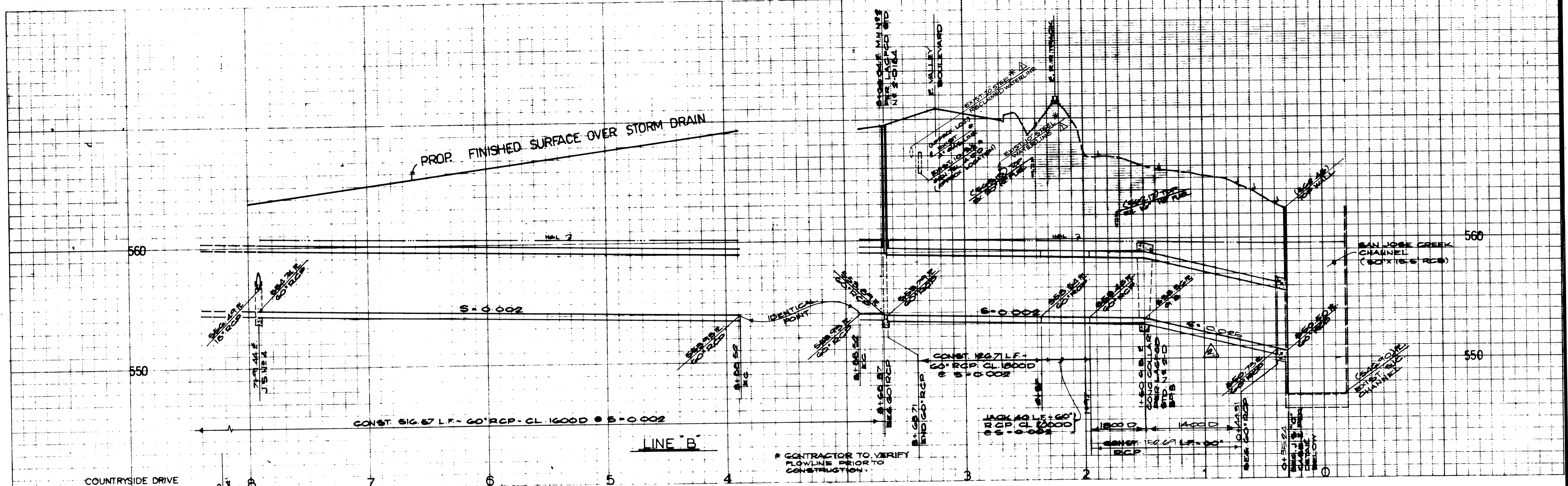


- CONSTRUCTION NOTES:
- 4 - CONST. 42" R.C.P.
 - 8 - CONST. 18" R.C.P.
 - 15 - CONST. CATCH BASIN NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D160
 - 16 - CONST. CATCH BASIN NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D162
 - 17 - CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163
 - 18 - CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88
 - 12 - CONST. M.H. NO. 1 PER L.A.C.F.C.D. STD. NO. 2-D102

PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 AND LAND PLANNERS
 1885 E. 18th Street
 SANTA ANA, CALIFORNIA 92701
 PHONE 714-835-2648

REVISIONS	
REVISED BY	RE. No.

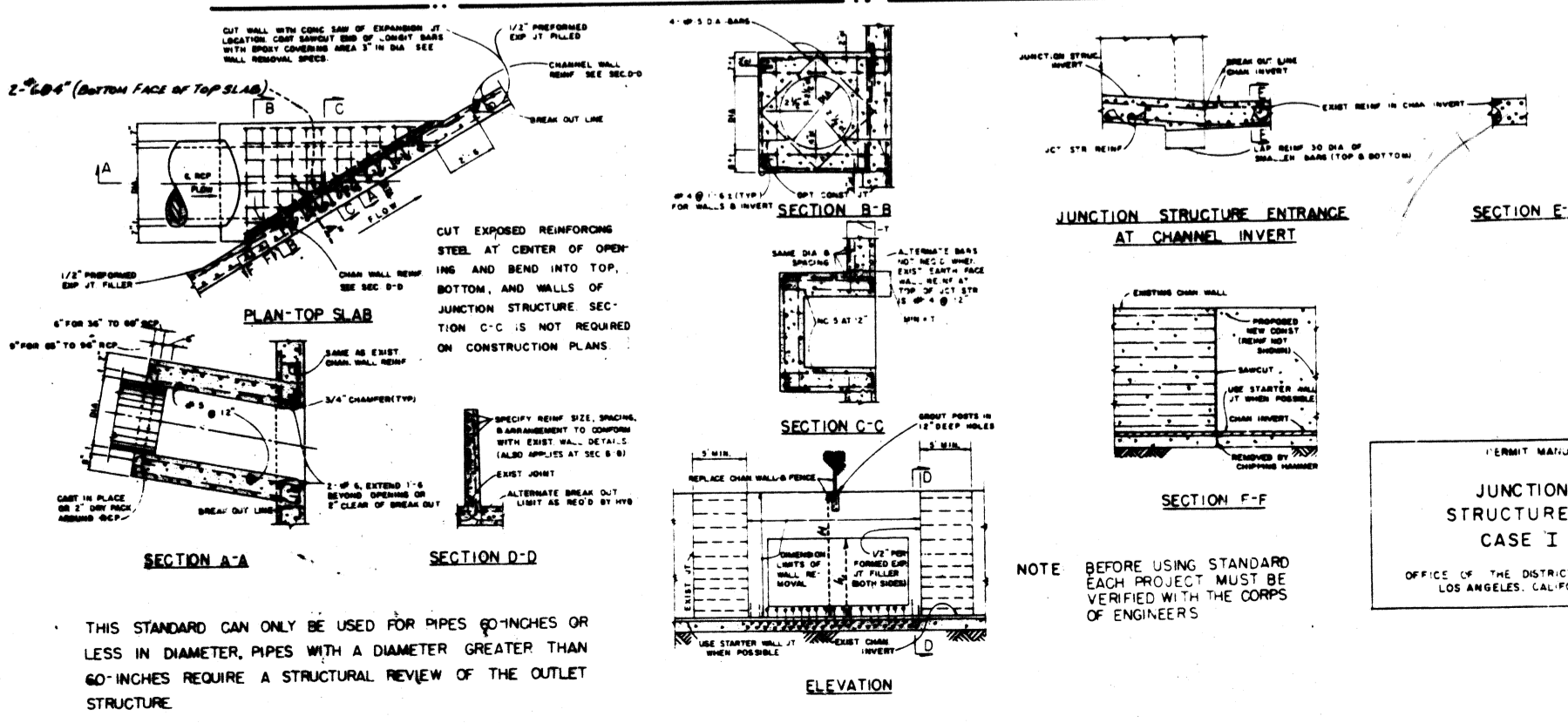
CITY OF WALNUT
TRACT NO. 32958
 STORM DRAIN PLAN
LINE "C"



CAUTION: EXISTING 16" AND EXISTING 20" SOUTHERN PACIFIC PIPE LINES COMPANY HIGH PRESSURE REFINED PETROLEUM PRODUCTS PIPELINES. CONTRACTOR SHALL:

A). AT LEAST ONE WEEK PRIOR TO CONSTRUCTION NOTIFY MR. N.H. WILHELM, SPPL DISTRICT SUPERINTENDENT, AT (714)877-2373.

B). INSTALL PROPOSED STORM DRAIN WITH A MINIMUM OF TWO (2) FEET OF CLEARANCE. SPPL'S PIPELINES SHALL BE EXPOSED BY HAND IN THE PRESENCE OF AN SPPL INSPECTOR, ARRANGED THROUGH MR. WILHELM AT THE POINT OF CROSSING PRIOR TO THE USE OF POWER EQUIPMENT. THIS WILL BE REQUIRED WHETHER CROSSING IS BY TRENCHING OR BY BORING. BACKFILL AROUND THE PIPELINE MUST BE SAND (ON ROCK-FREE DIRT) AND MUST BE HAND COMPACTED.



CONDITIONS

- 1) COPIES OF ENGINEER SPEC. DESIGN PROVISIONS FOR CONNECTIONS SHALL BE NOTED ON OR ATTACHED TO PLANS.
- 2) LAY ALL REINFORCING ACCORDING TO SACS 38-43 OR MIN. OF 30 BARS PER FT.
- 3) STRUCTURE DETAILS TO BE DRAWN TO SCALE OF 1/2"=1'-0" UNLESS OTHERWISE NOTED.
- 4) NUMBER OF ENTRY AND INVERT ELEVATIONS TO BE ESTABLISHED BY SURFACE SECTION CORNER OF ENTRIES.
- 5) ALL STRUCTURES SHALL BE USED FOR STRUCTURES WITHIN THE CHANNEL.
- 6) ALL MANHOLE SIZES SHALL BE 48" UNLESS OTHERWISE NOTED.
- 7) CONCRETE SHALL BE 2800 PSI OR AS NOTED.

- CONSTRUCTION NOTES:
- 1) CONST. 60" R.C.P.
 - 2) CONST. 54" R.C.P.
 - 3) CONST. MANHOLE NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D184
 - 4) CONST. CONCRETE COLLAR PER L.A.C.F.C.D. STD. NO. 2-D393
 - 5) CONST. JUNCTION STRUCTURES PER A.P.S. L.A.C.F.C.D. STD. NO. 2-D183
 - 6) CONST. JUNCTION STRUCTURE "C" CASE I PER DETAIL ON SHT. NO. 9

PLANS PREPARED BY:
MARBLE AND ASSOCIATES, INC.
 GENERAL ENGINEERS AND ARCHITECTS
 3400 WILSON AVENUE
 BARTON, CALIFORNIA 92704
 PHONE 714-835-2546
 CIVIL ENGINEER

REVISIONS

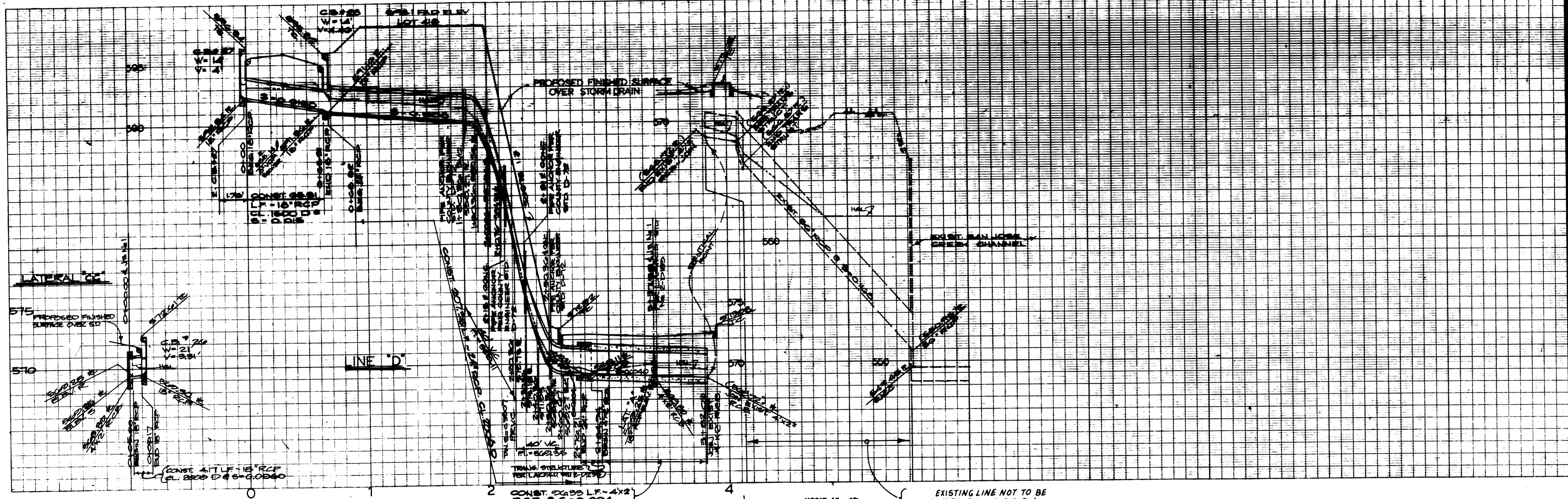
NO.	DESCRIPTION	DATE
1	SHOW WATER LINES IN VALLEY BLVD. 8-22-86	8-22-86
2	REVISE 60" RCP ENTRY TO SAN JOSE CREEK CHANNEL 9-10-86	9-10-86

REVISIONS

REVISED BY	RE. NO.	DATE	APPROVED BY	RE. NO.	DATE
<i>J. M. Maddox</i>	14814	9-10-86	<i>R. B. Marble</i>		

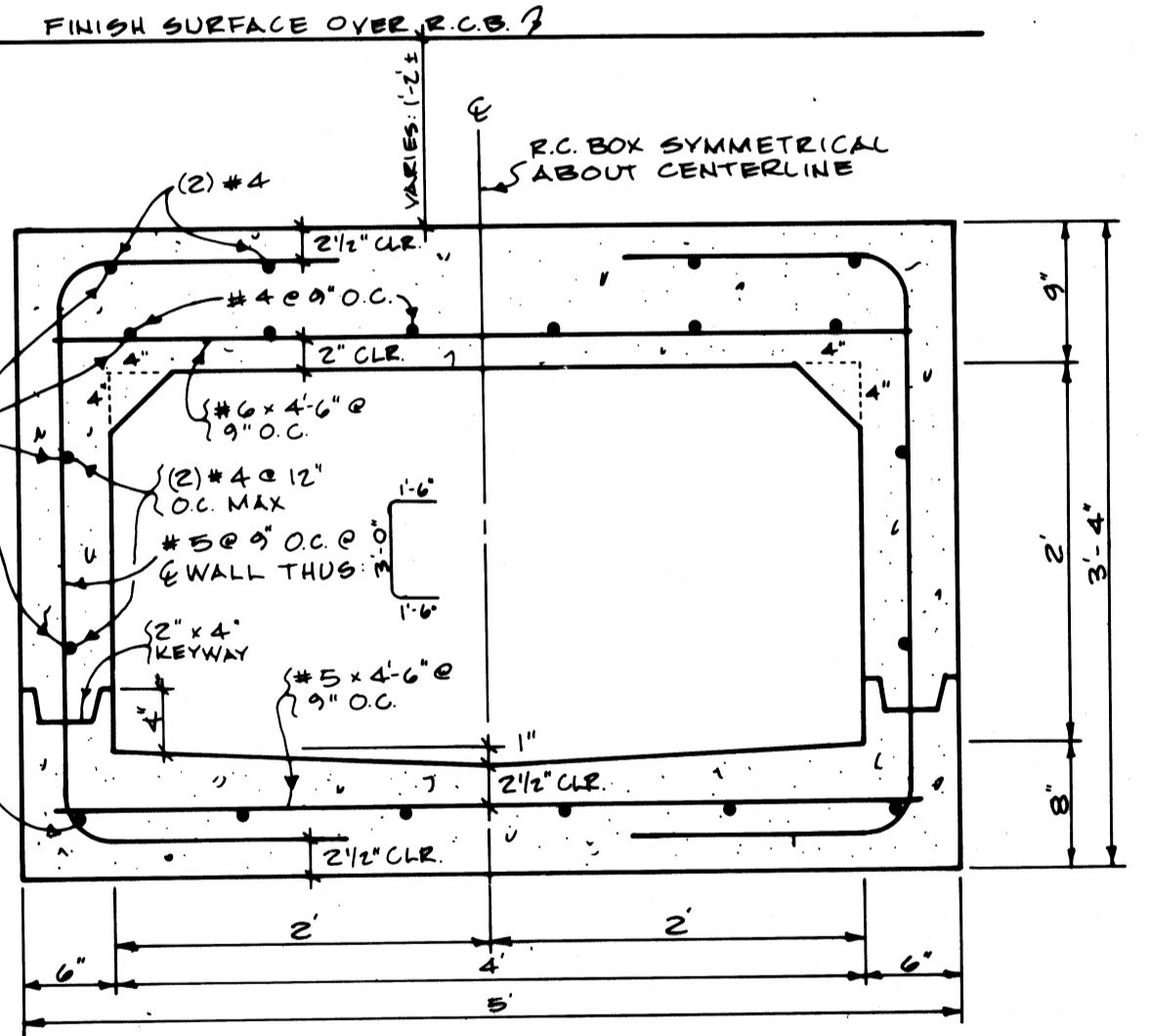
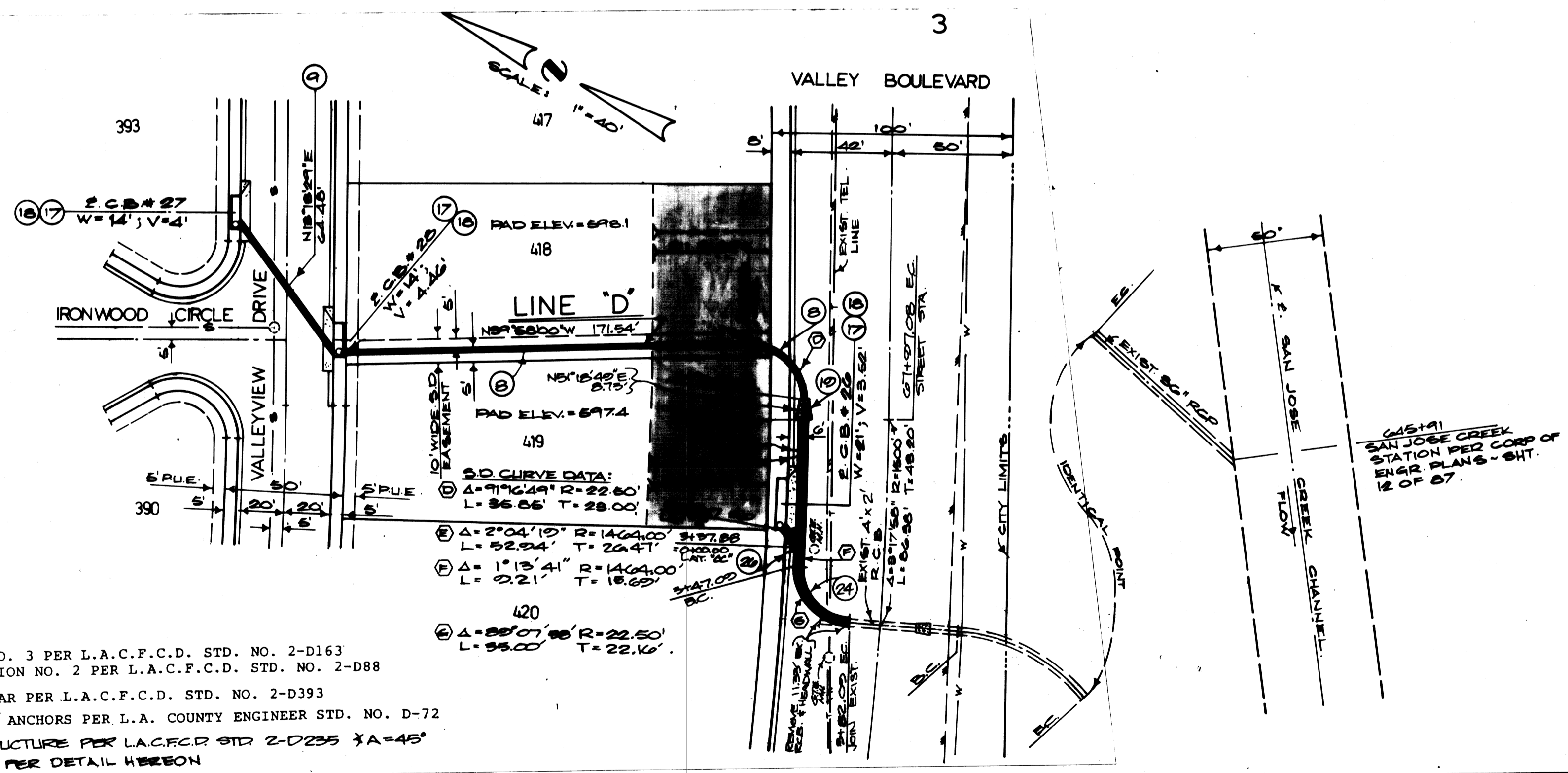
CITY OF WALNUT
TRACT NO. 32958
 STORM DRAIN PLAN
LINE "B"

SHT 9 of 13 SHTS



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

EXISTING LINE NOT TO BE MAINTAINED BY L.A.C.D.P.W.



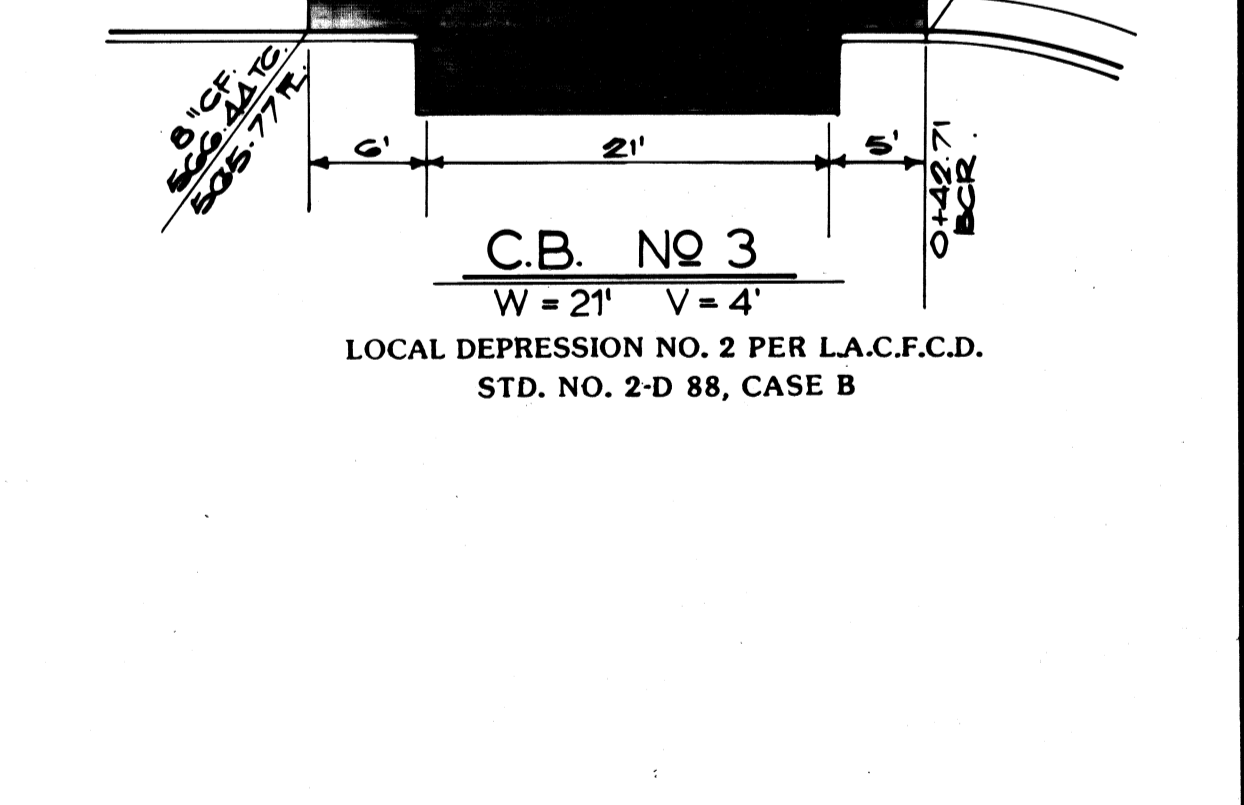
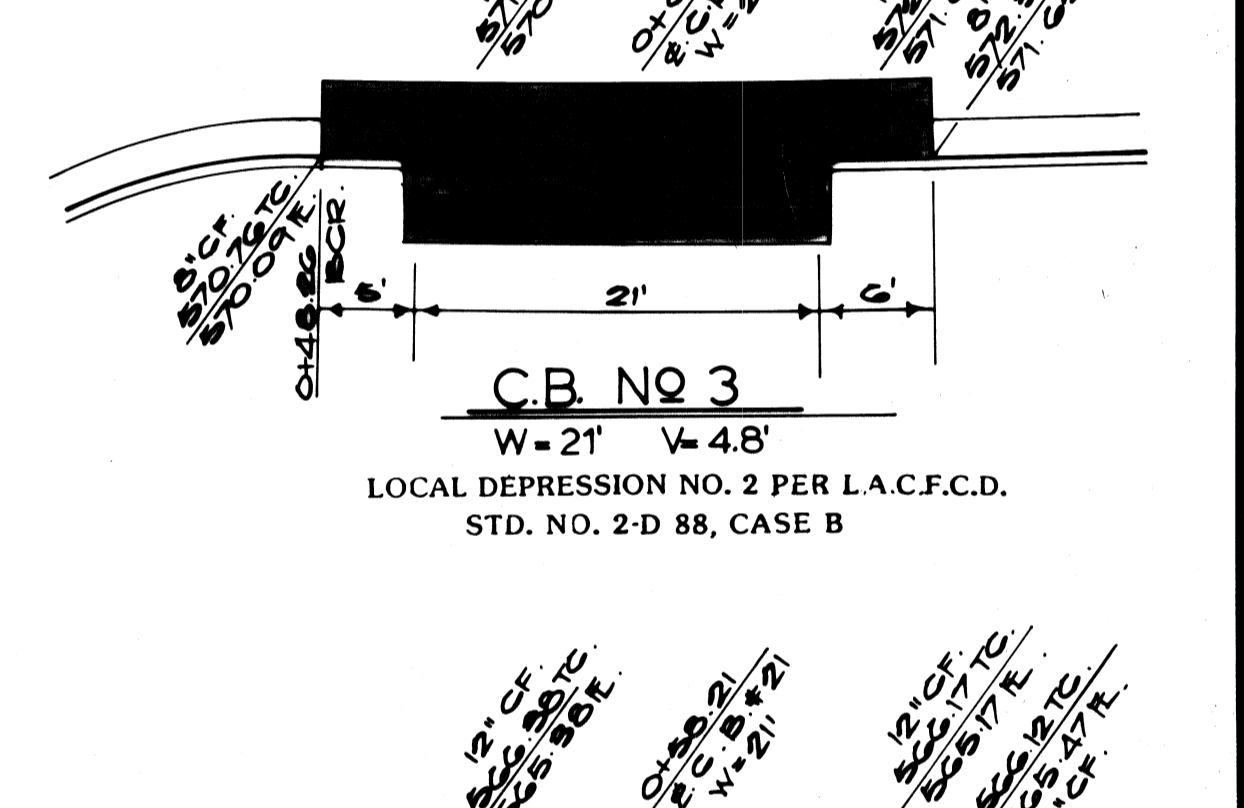
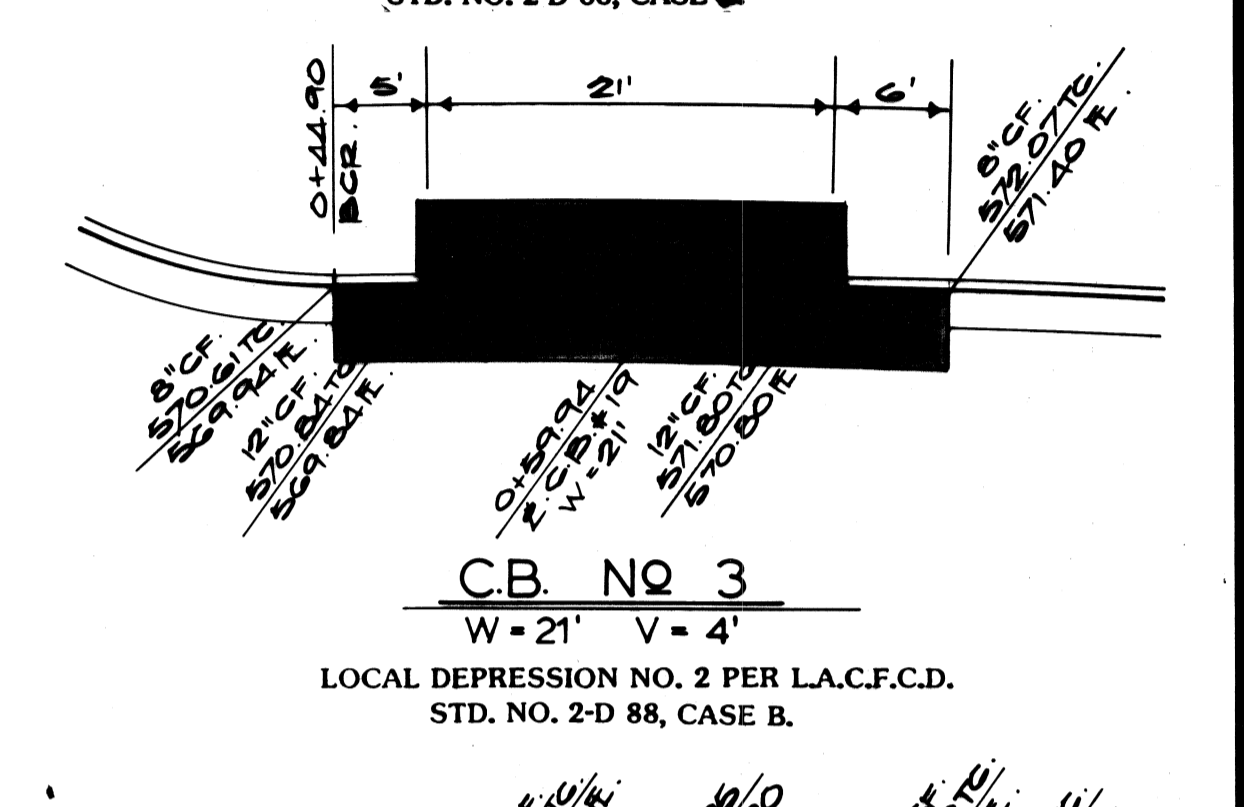
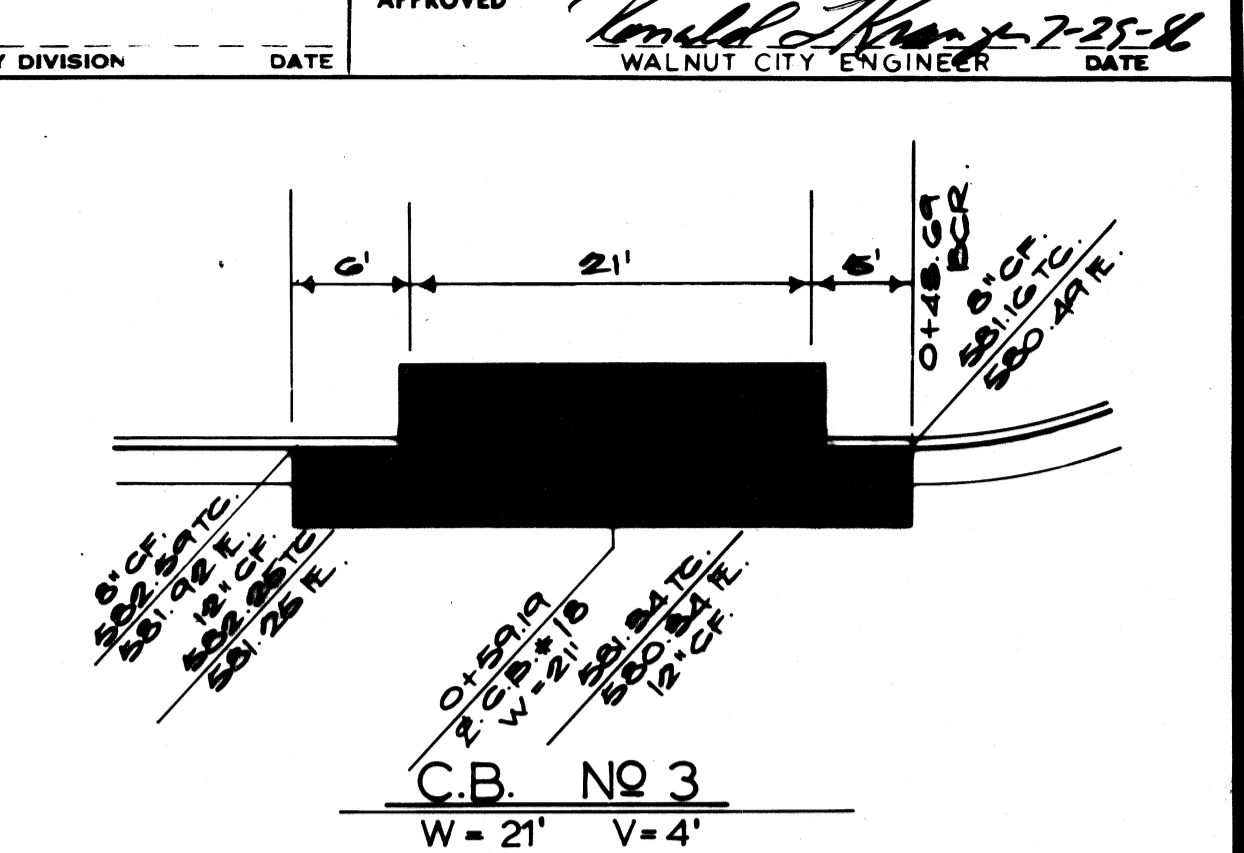
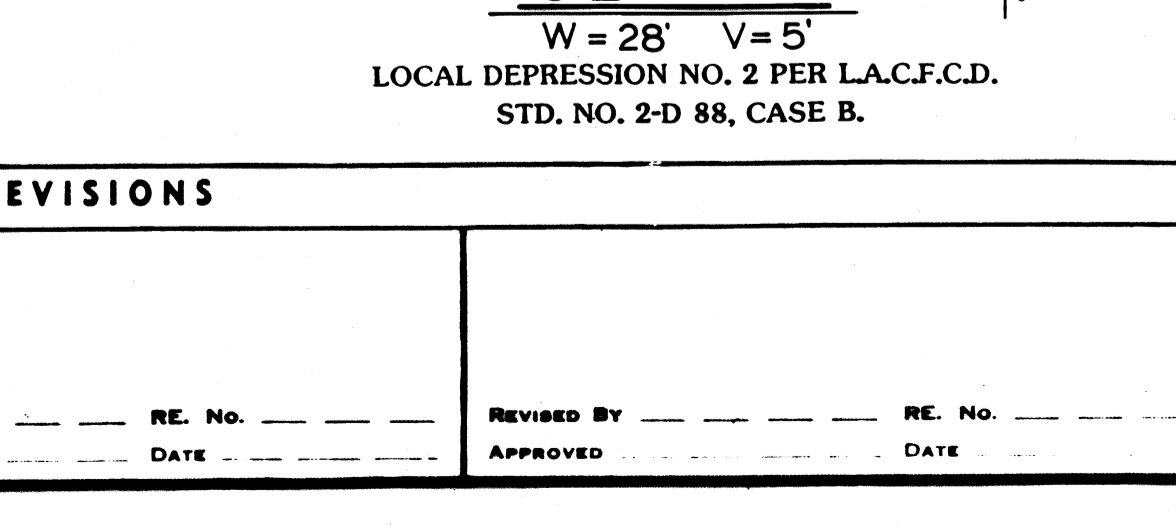
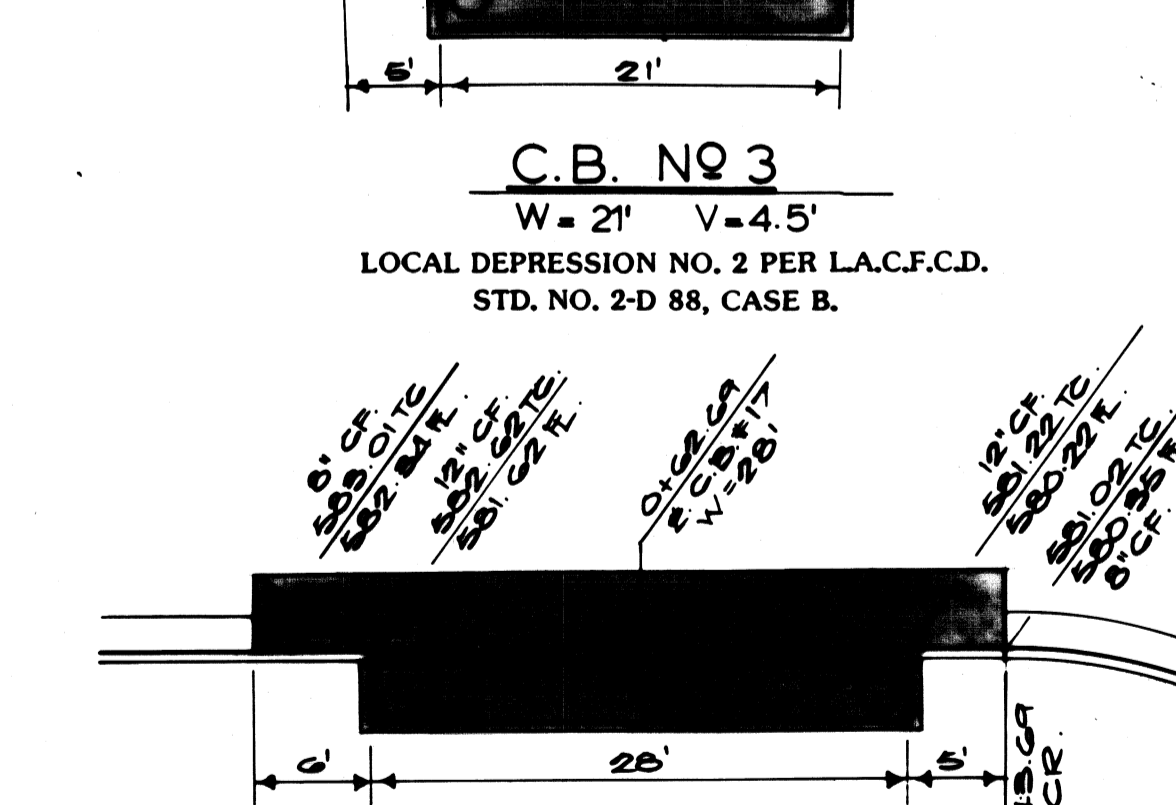
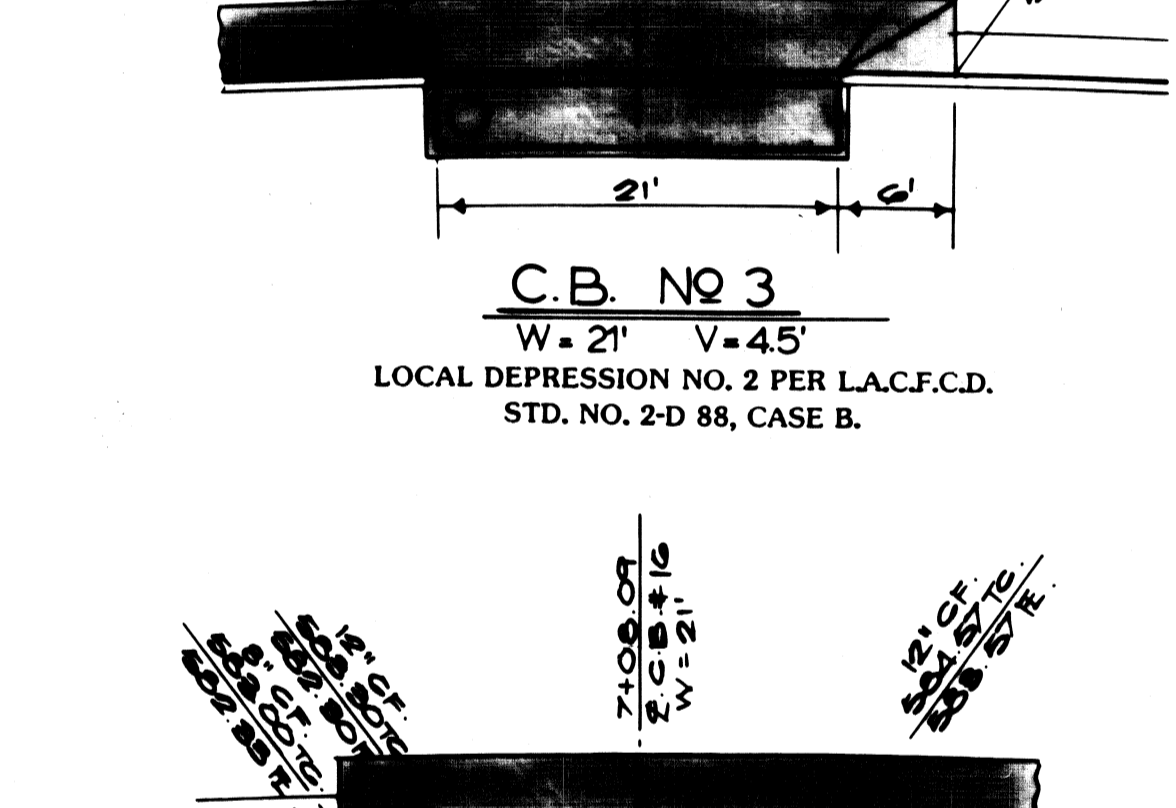
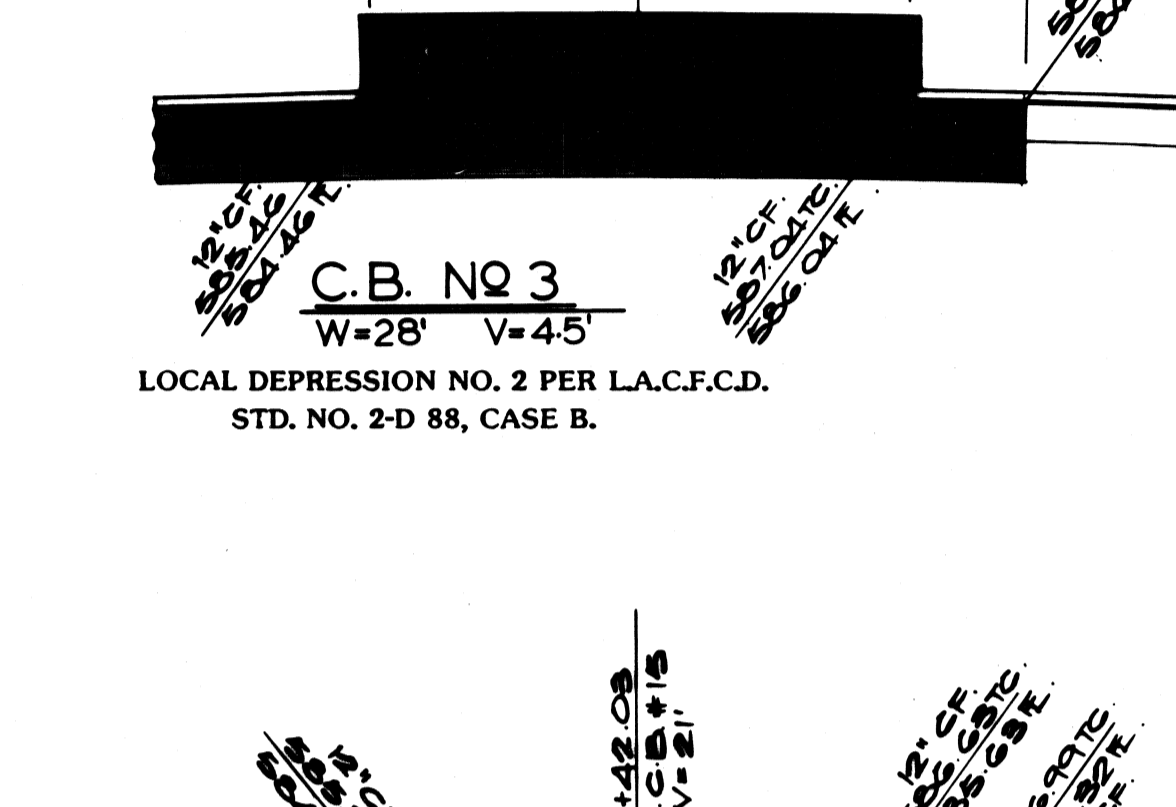
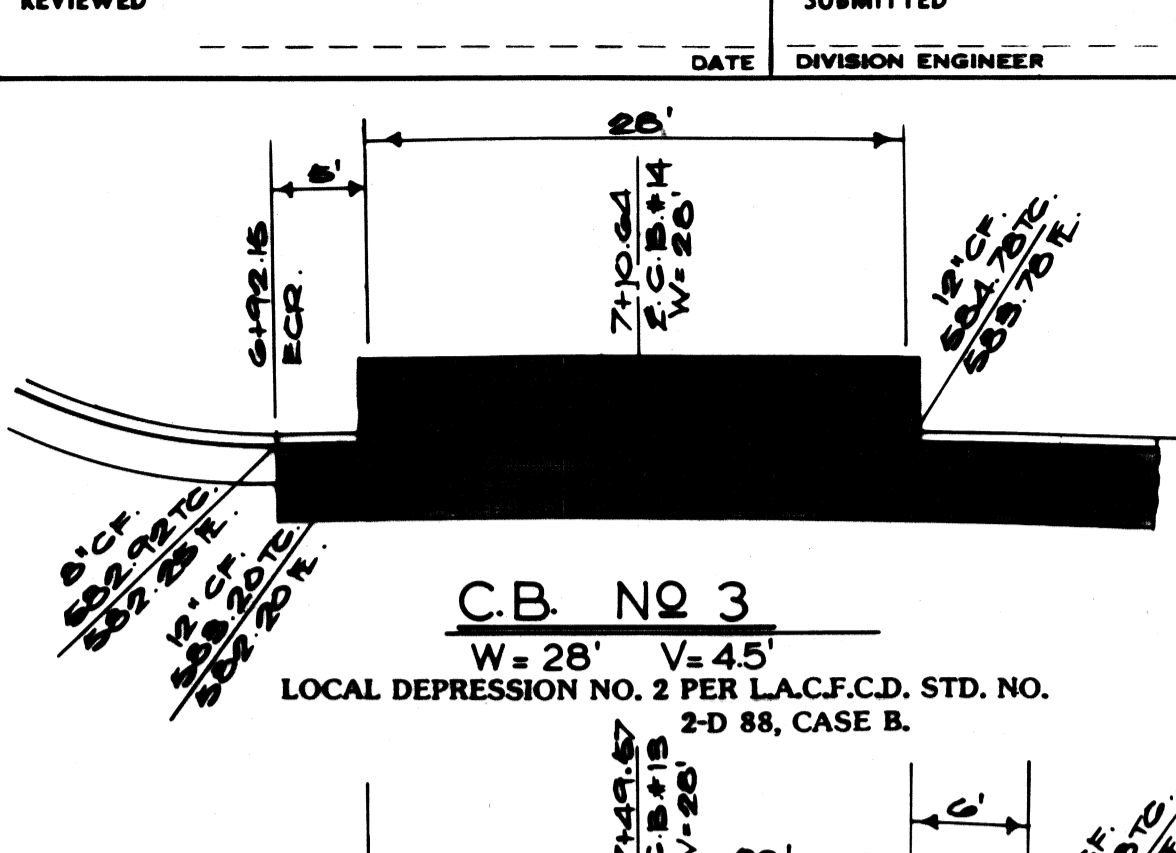
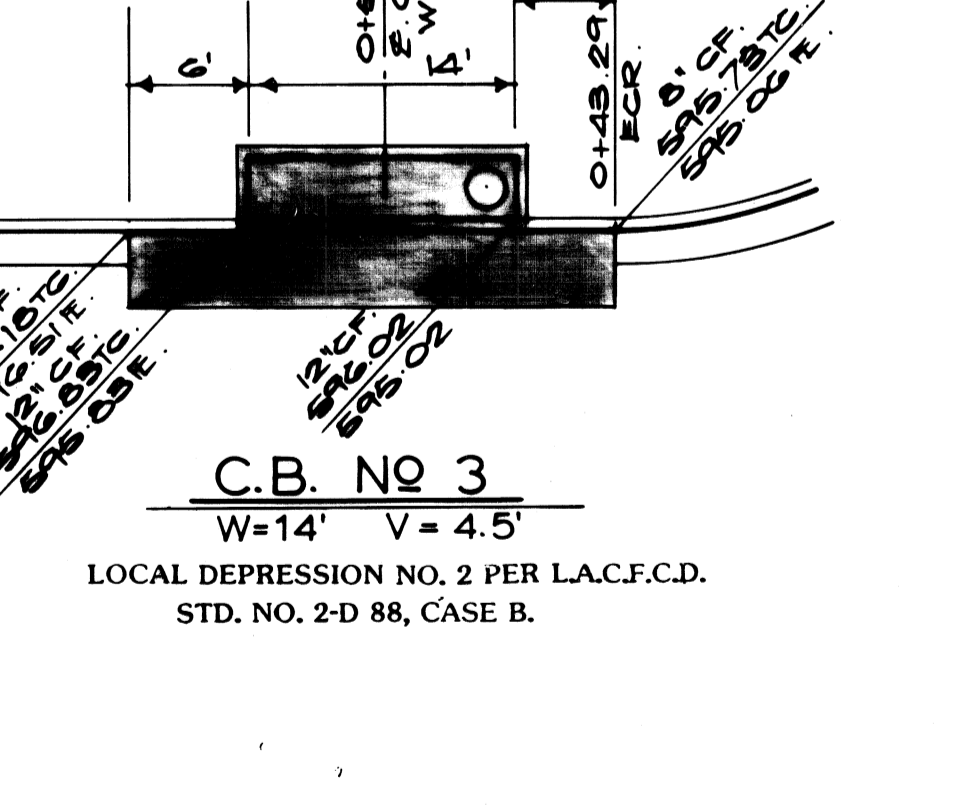
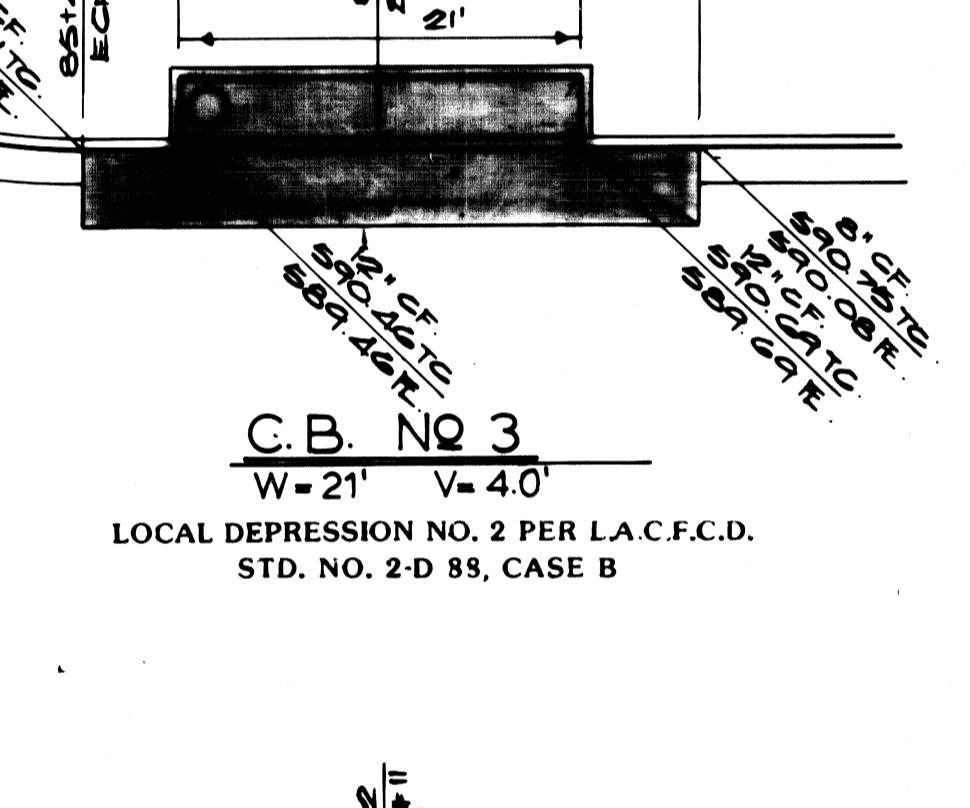
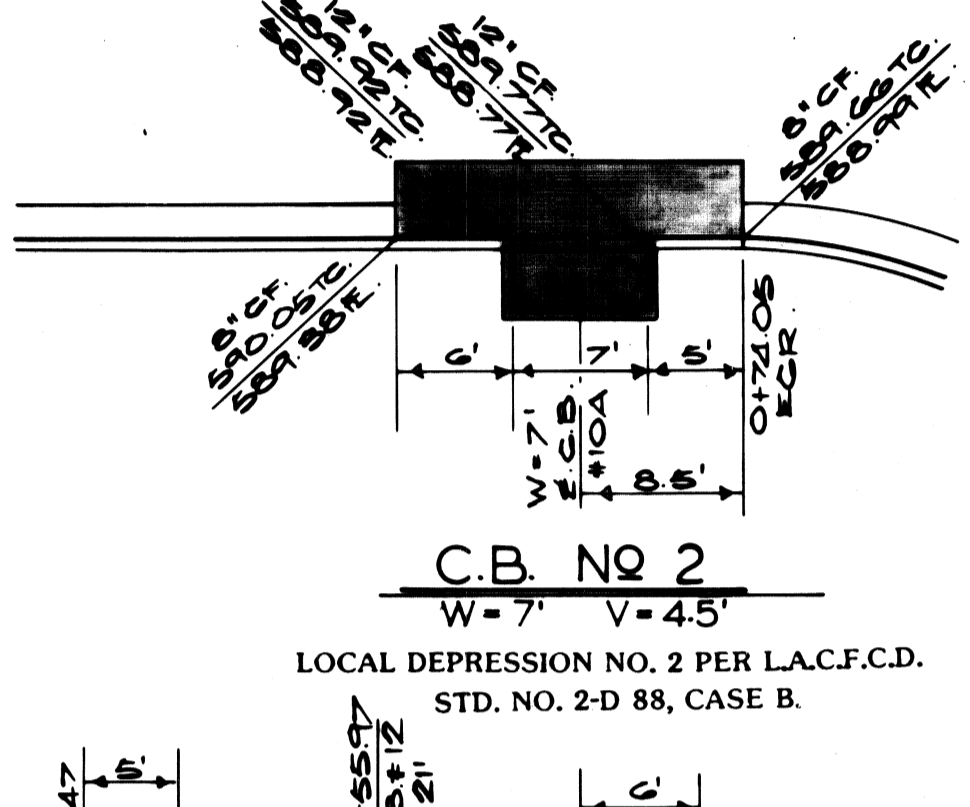
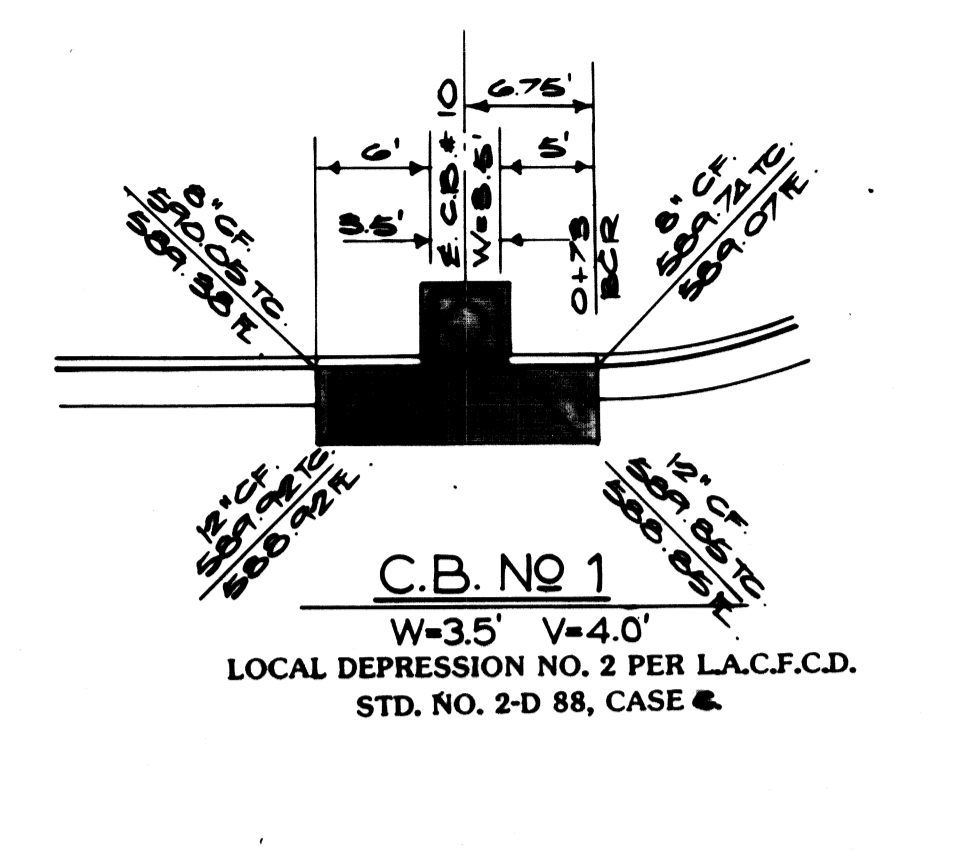
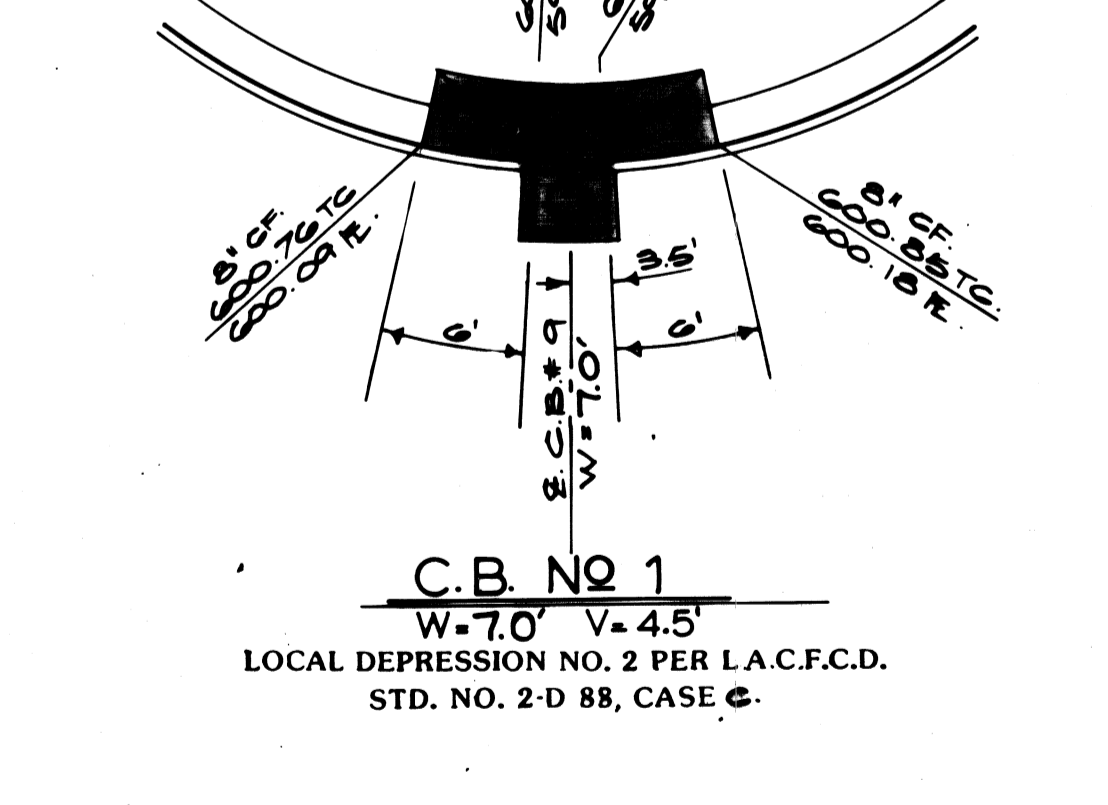
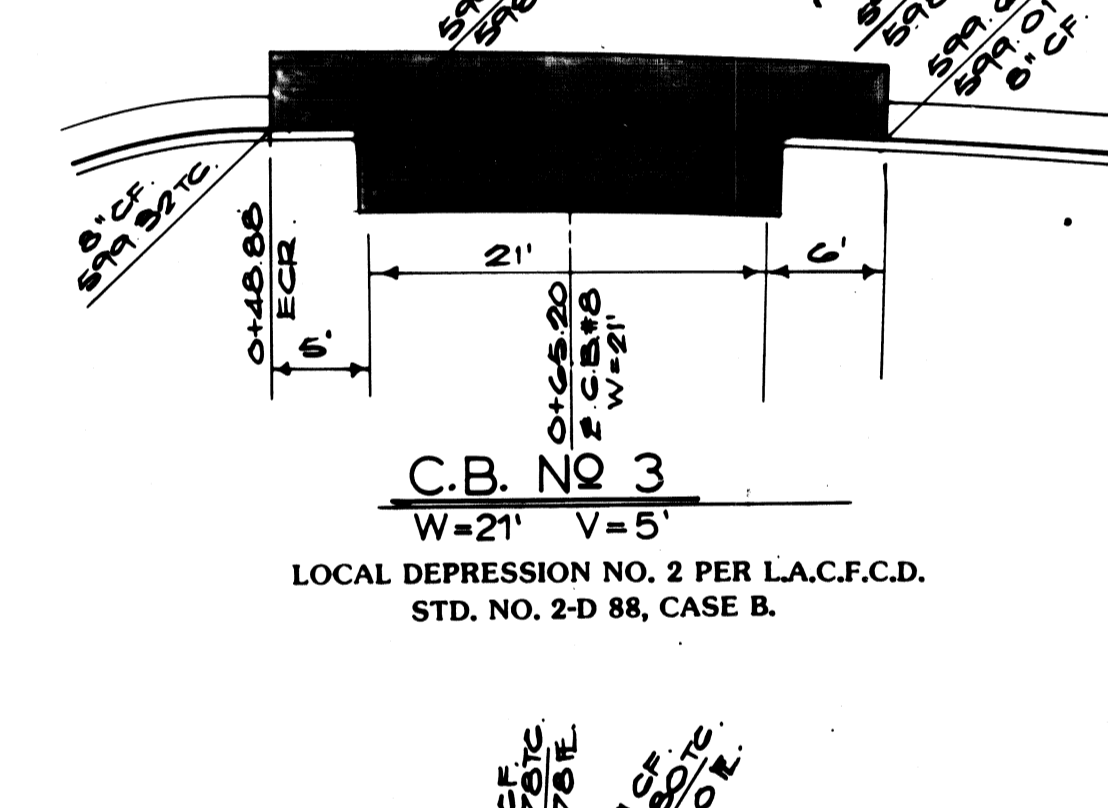
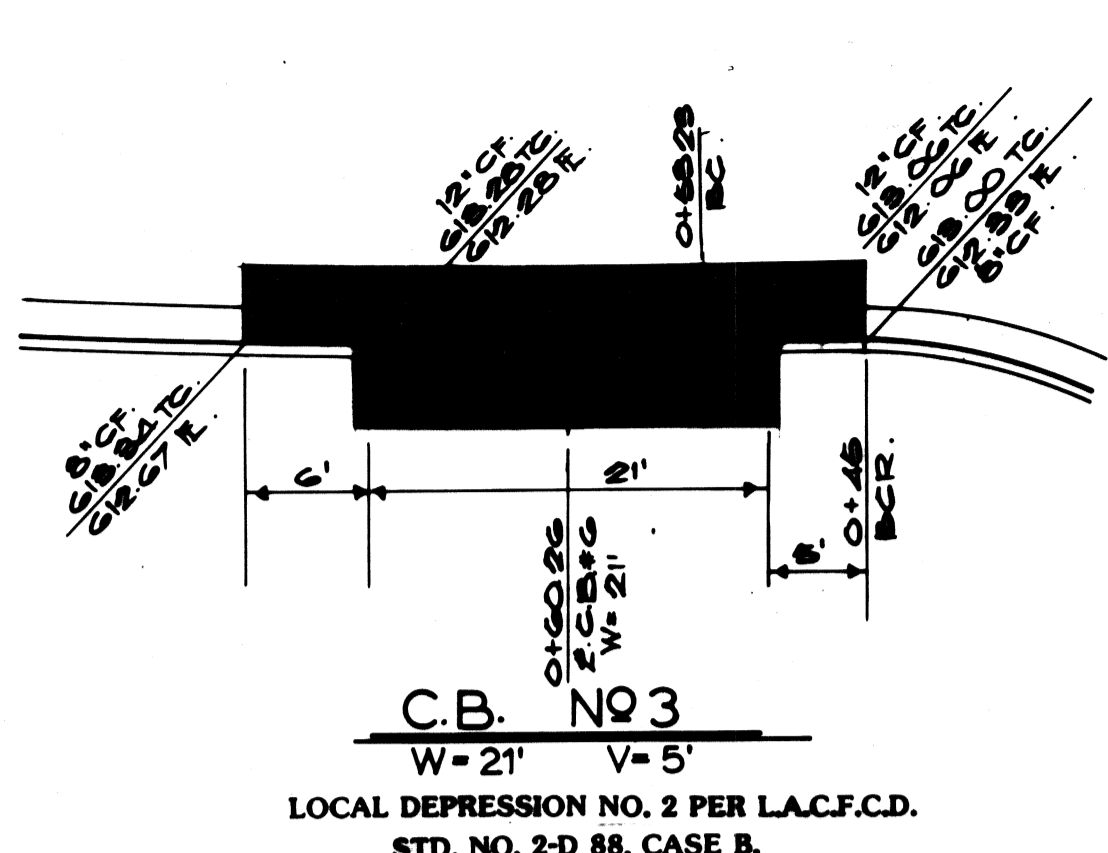
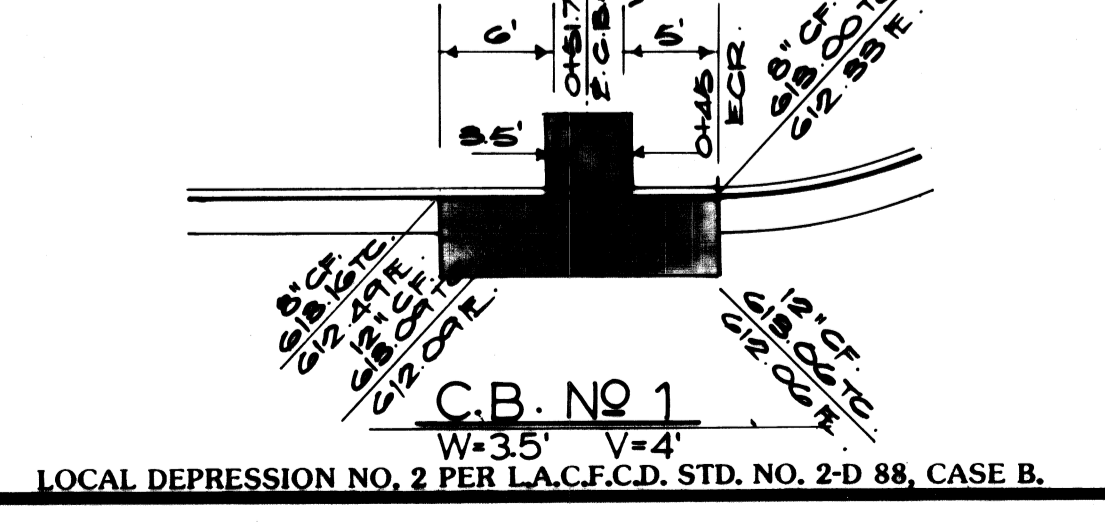
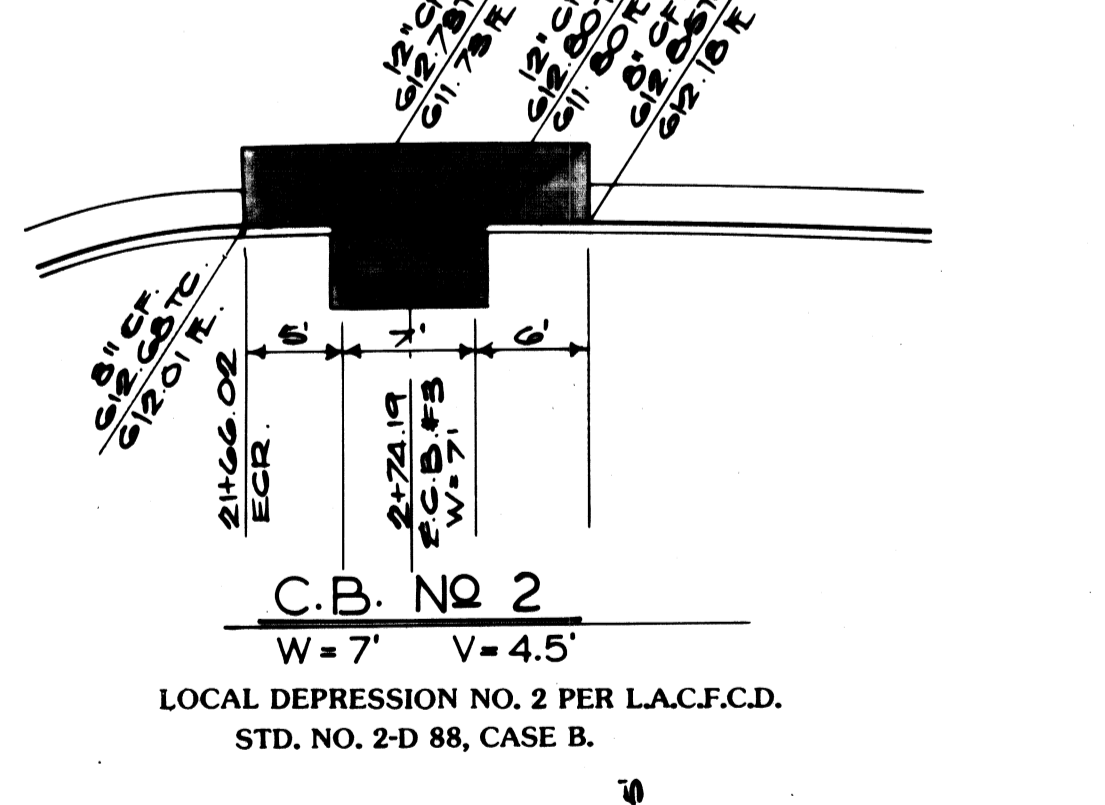
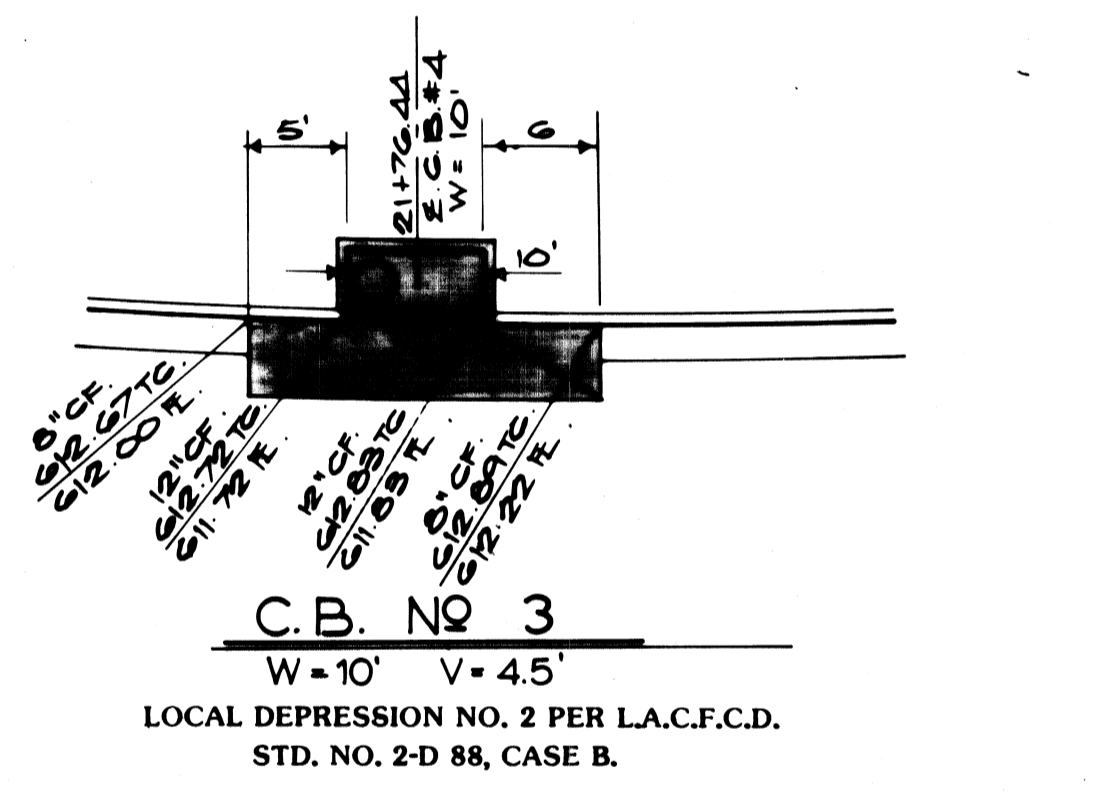
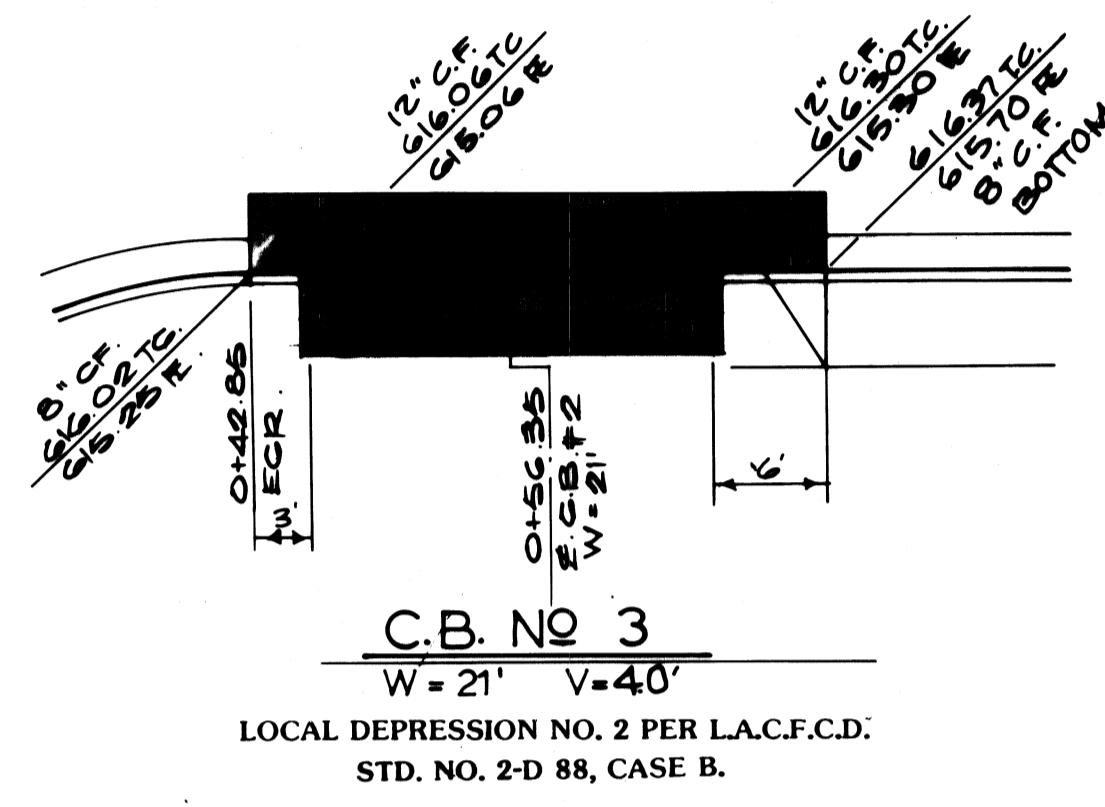
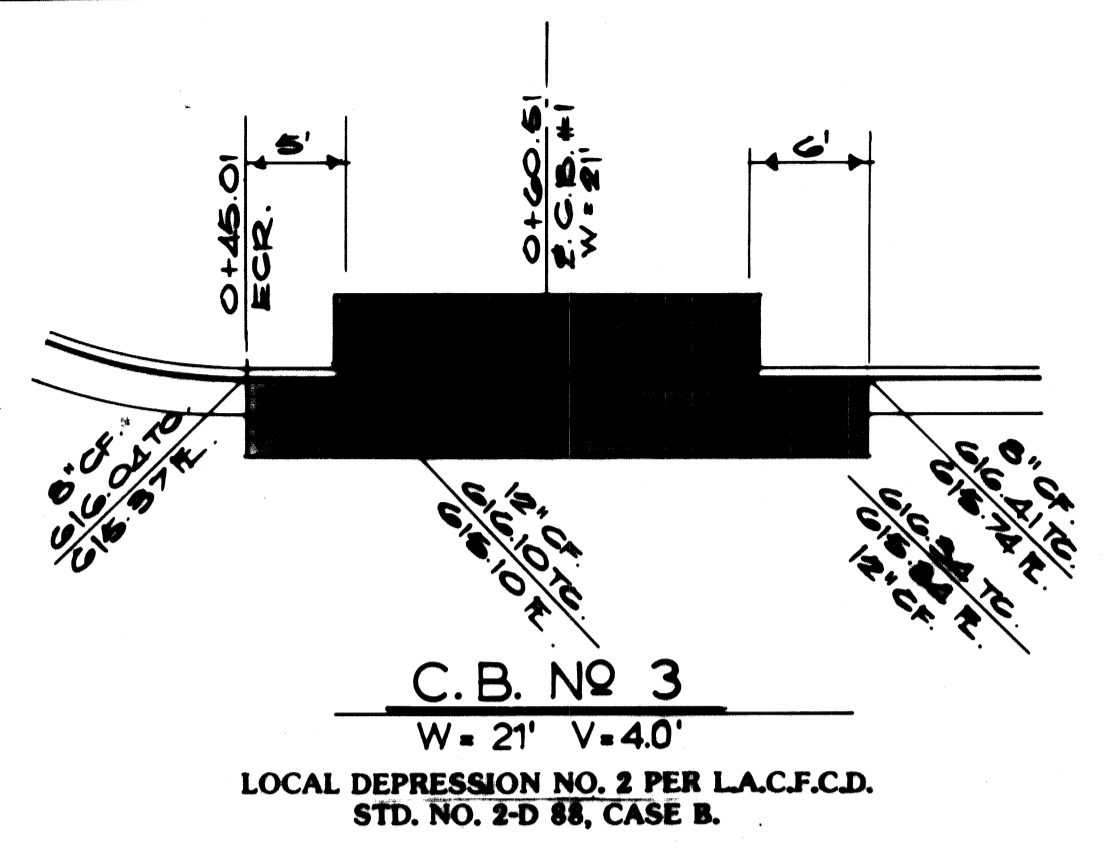
R.C. BOX DETAIL (24)
 SCALE: 1" = 1"

- CONSTRUCTION NOTES #
- 17 - CONST. 18" J.C.P.
 - 18 - CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. NO. 2-D163
 - 19 - CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. NO. 2-D88
 - 20 - CONST. CONCRETE COLLAR PER L.A.C.F.C.D. STD. NO. 2-D393
 - 21 - CONST. CONCRETE PIPE ANCHORS PER L.A. COUNTY ENGINEER STD. NO. D-72
 - 22 - CONST. TRANSITION STRUCTURE PER L.A.C.F.C.D. STD. 2-D235 3A=45'
 - 24 - CONST. 4'x2' R.C. BOX PER DETAIL HEREON
 - 25 - CONST. JUNCTION STRUCTURE NET PER L.A.C.F.C.D. STD. NO. 2-D189
 - 26 - CONST. 24" R.C.P.

PLANS PREPARED BY:
WALNUT AND ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 3400 W. 10TH ST., SUITE 100
 SAN ANTONIO, TEXAS 78201
 PHONE 714-625-2848
 Signature: *R.B. ...* R.E. No. 21485
 CIVIL ENGINEER

REVISIONS			
REVISED BY	RE. No.	REVISED BY	RE. No.

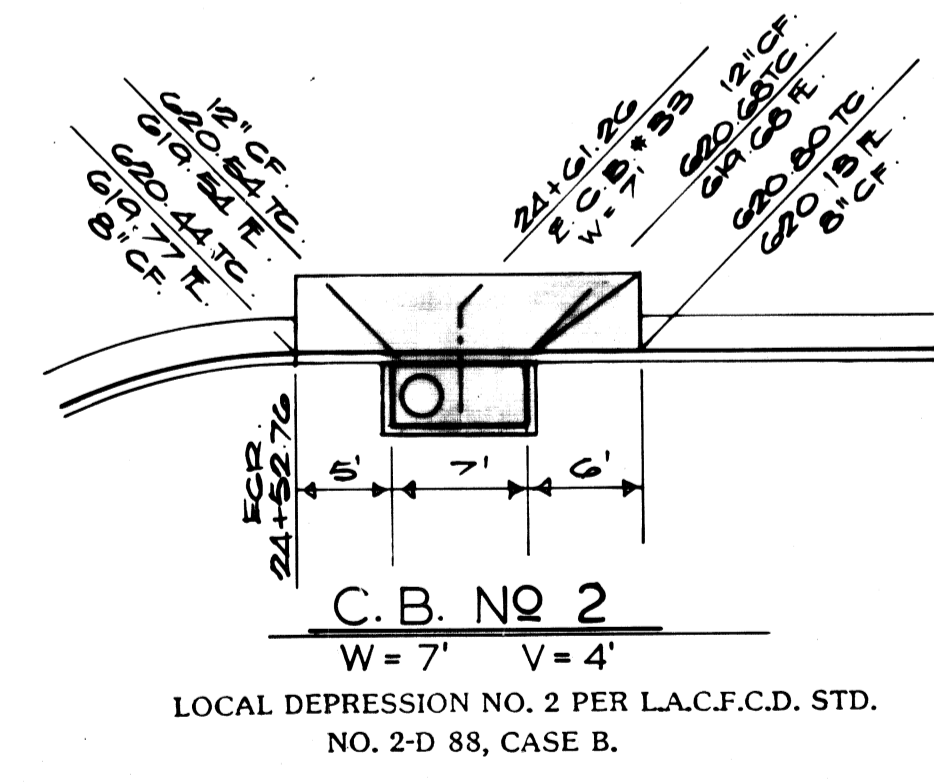
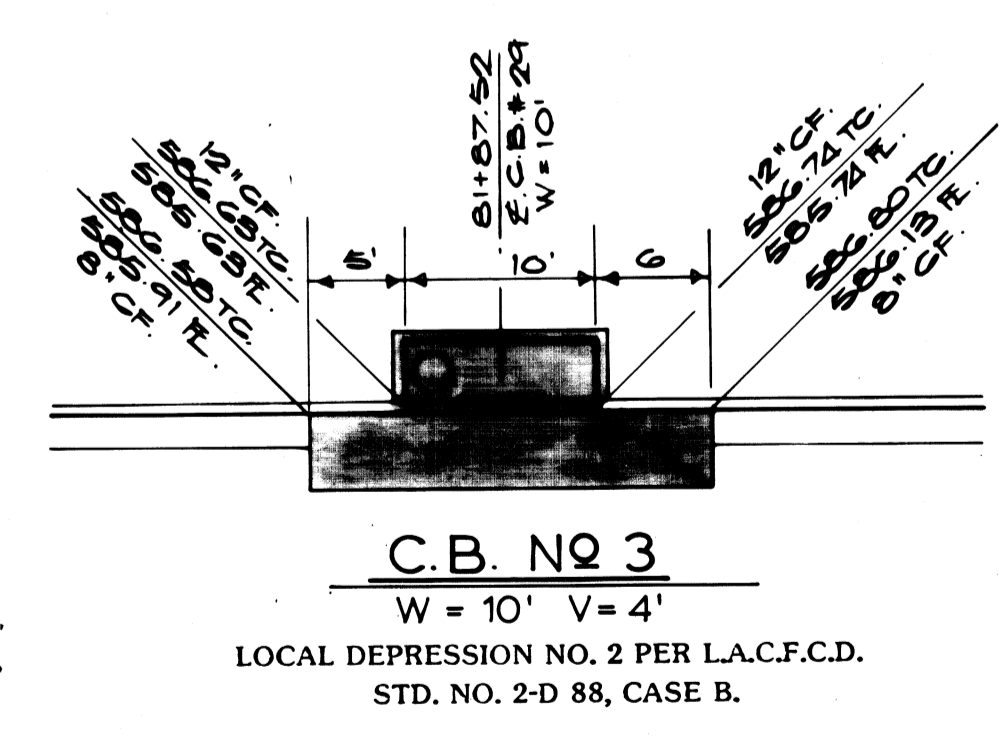
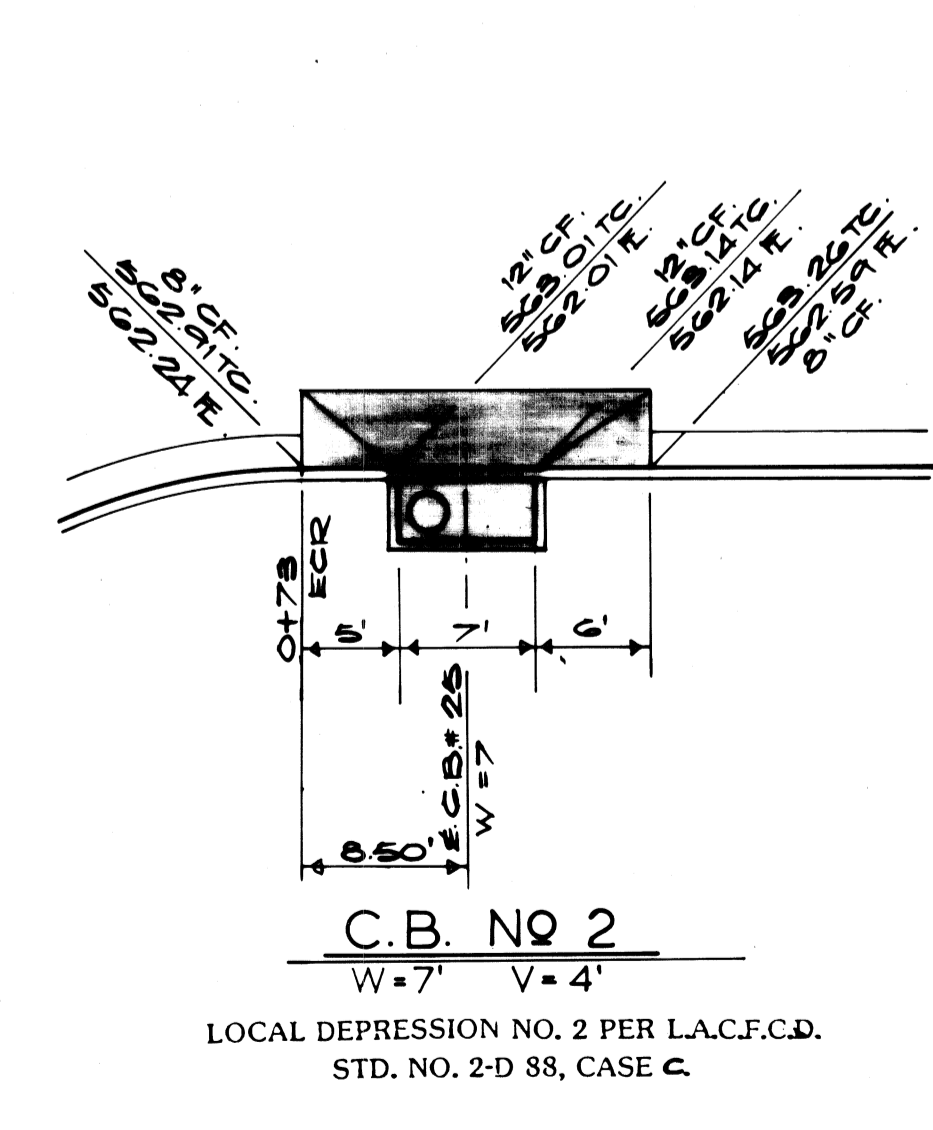
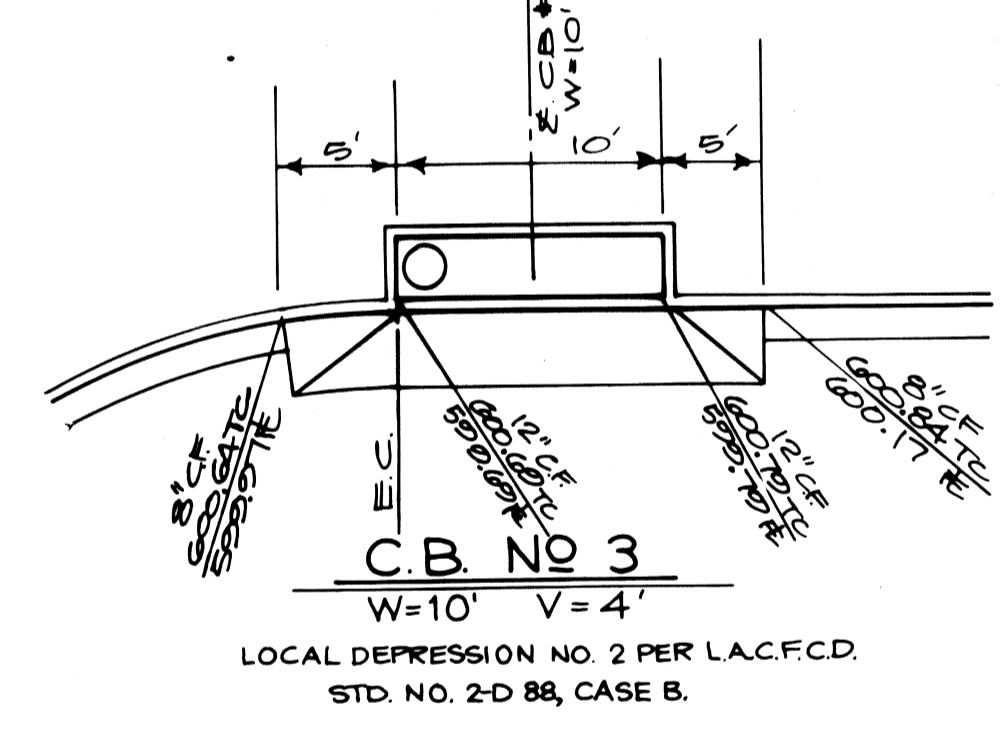
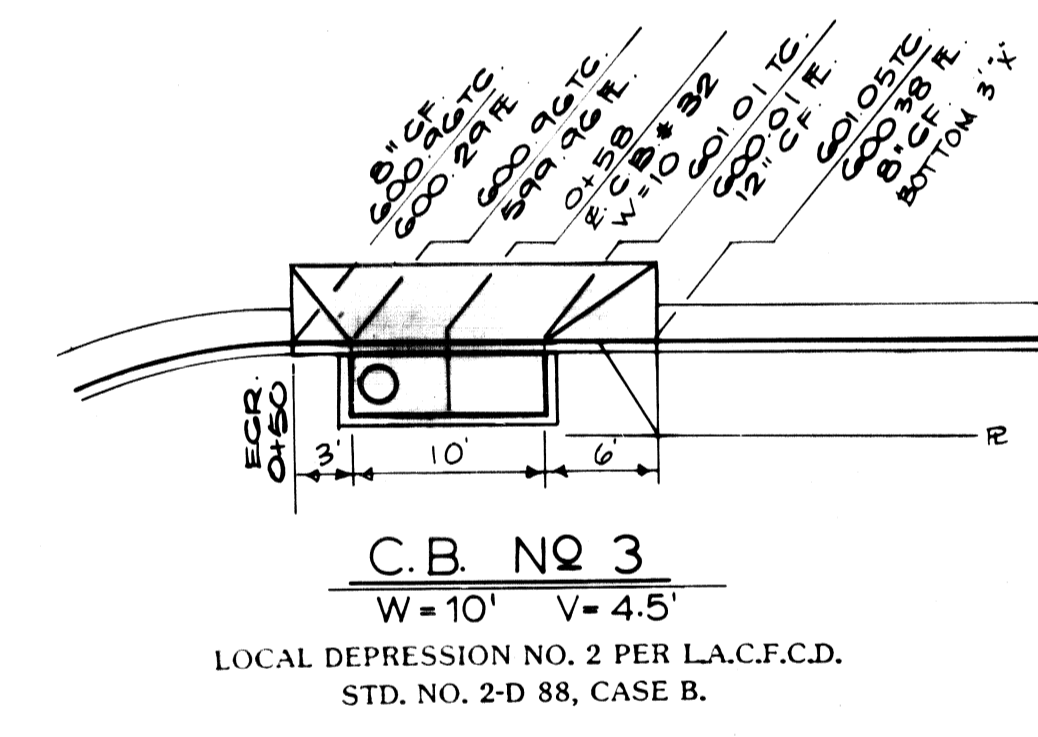
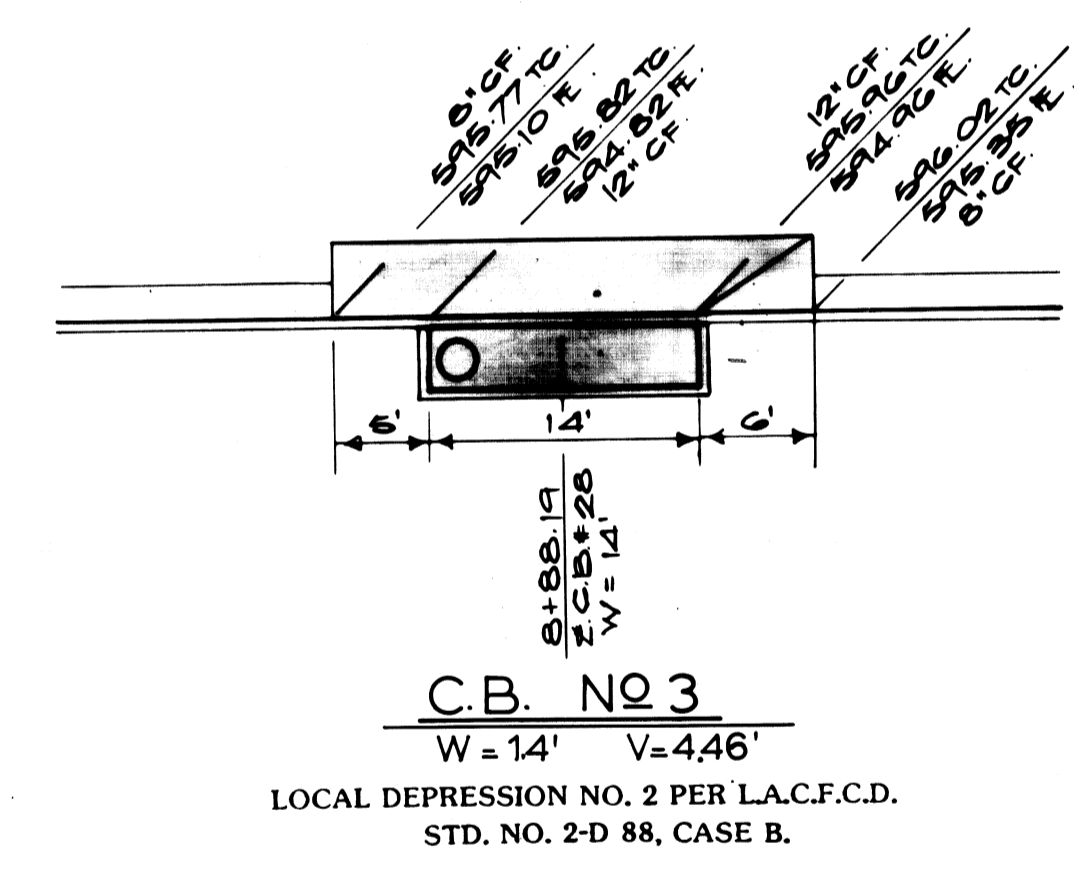
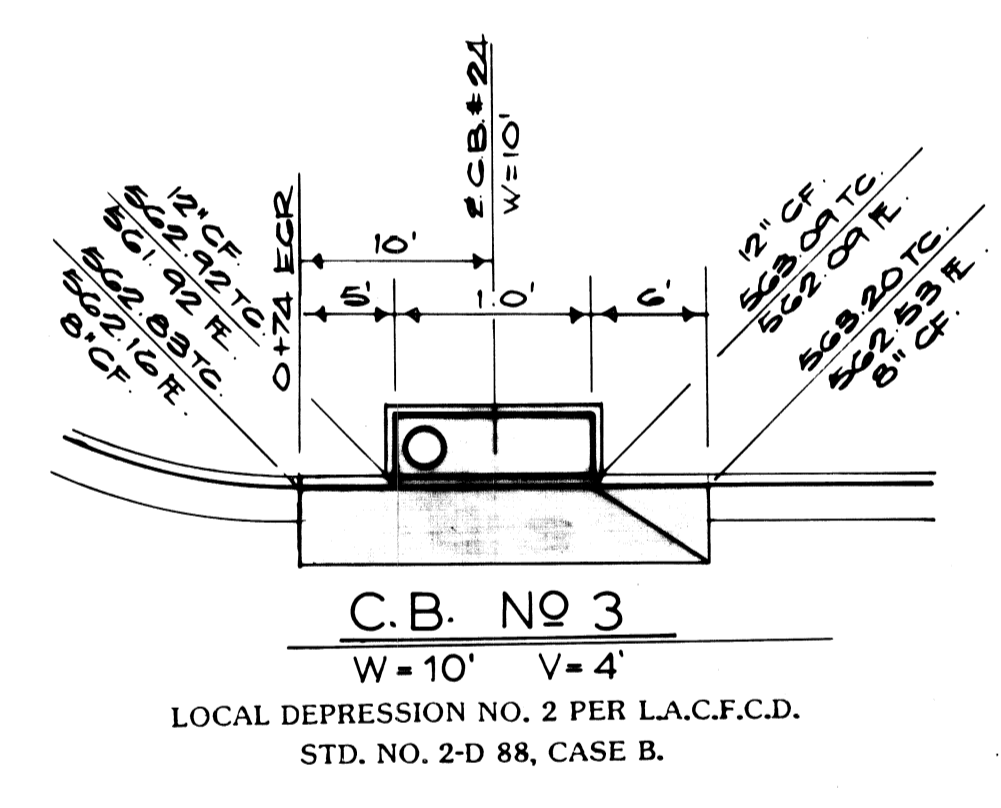
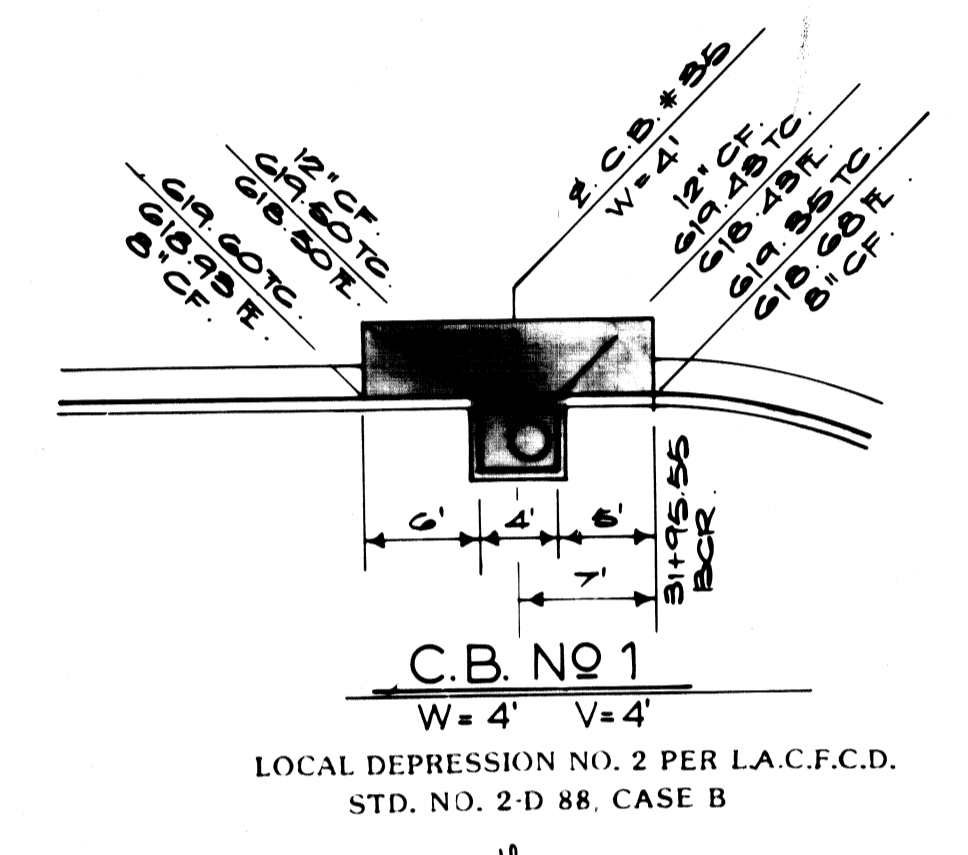
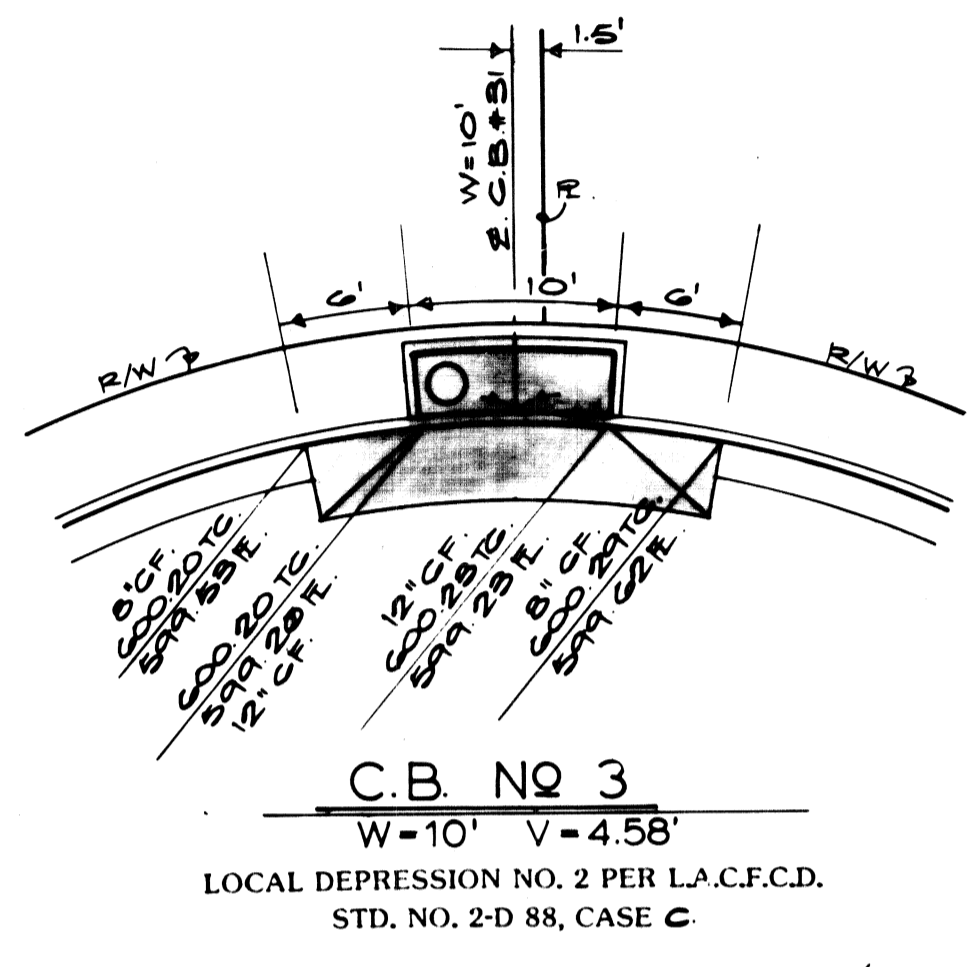
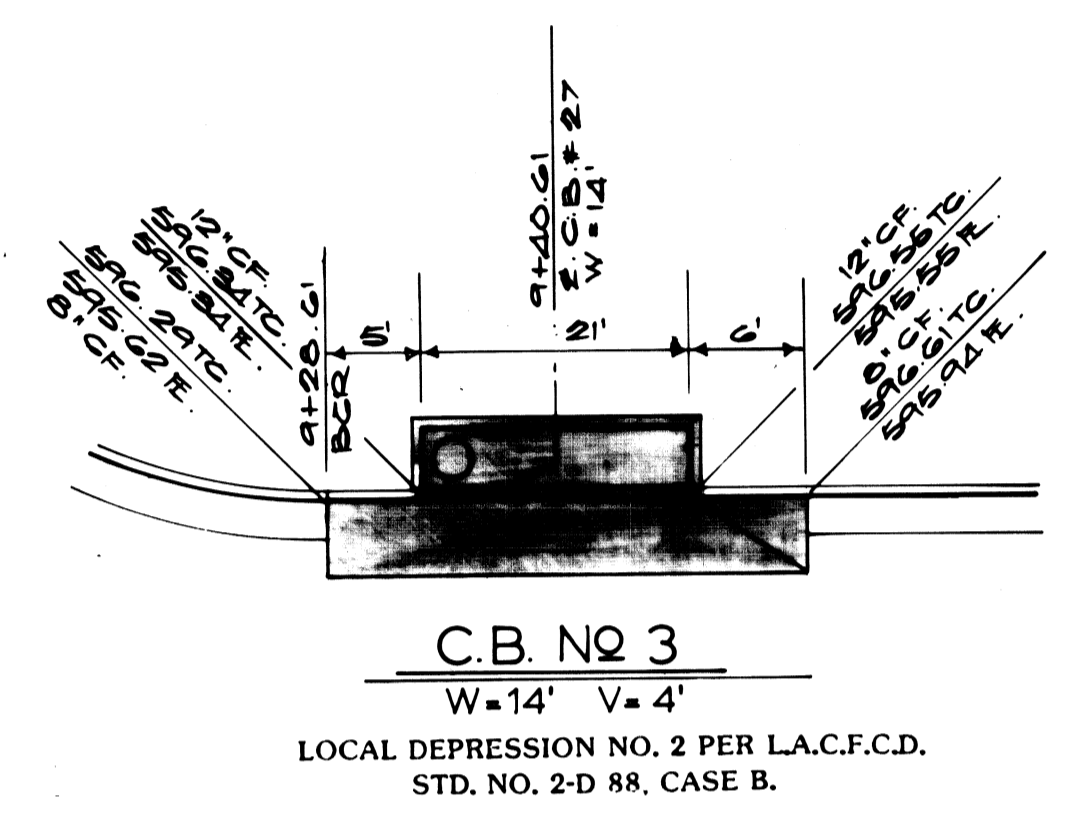
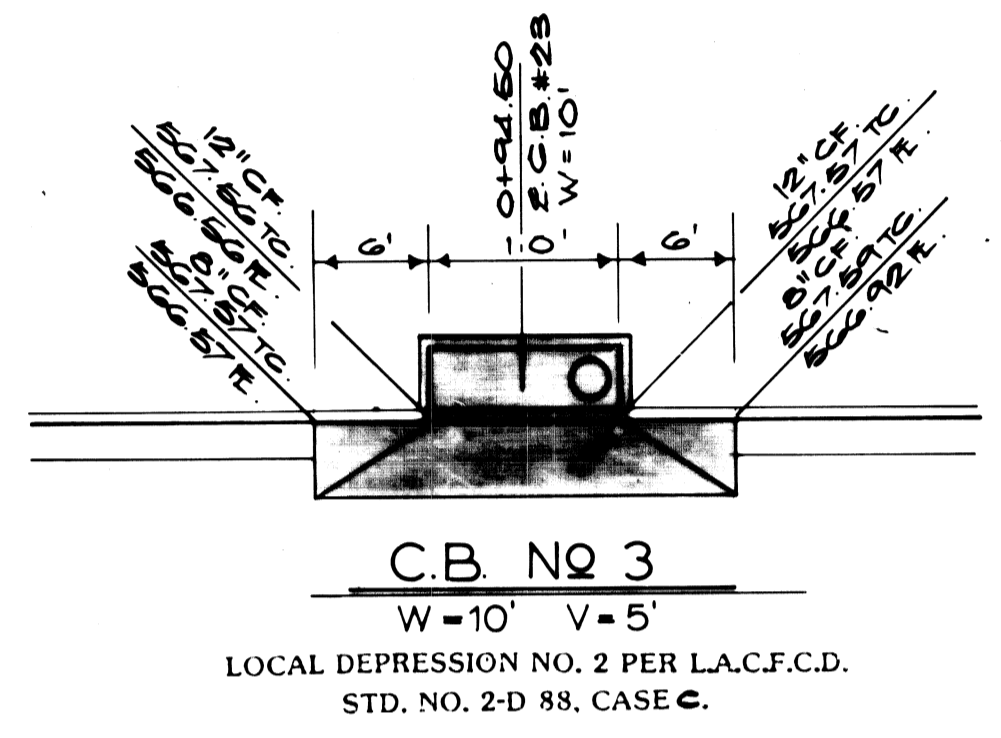
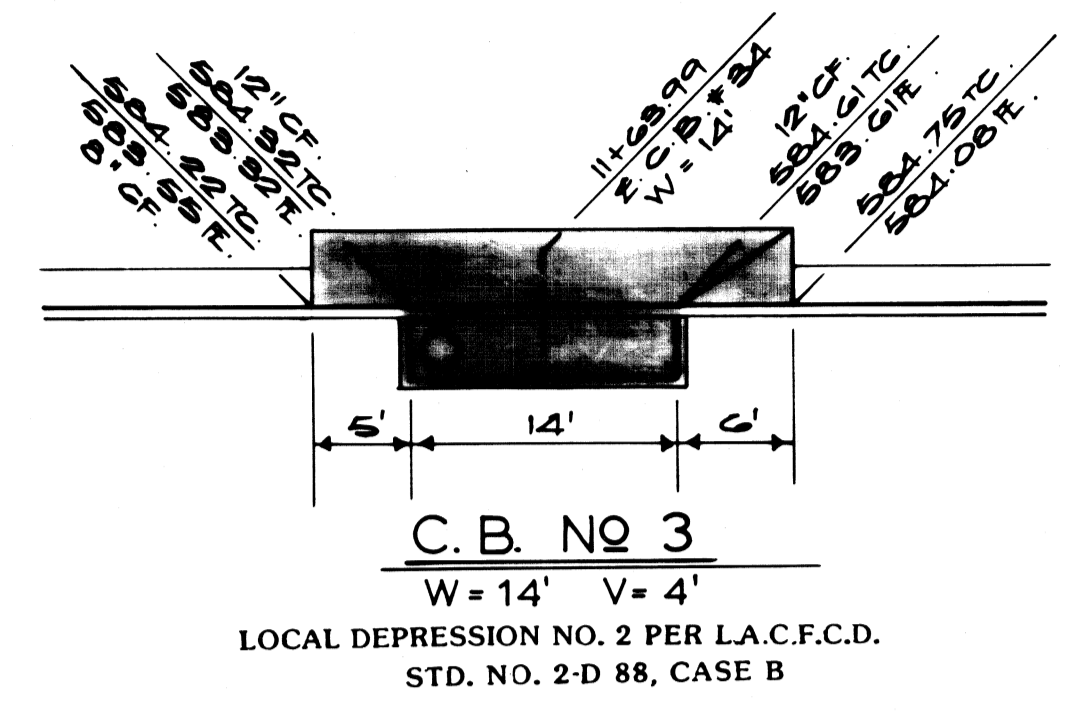
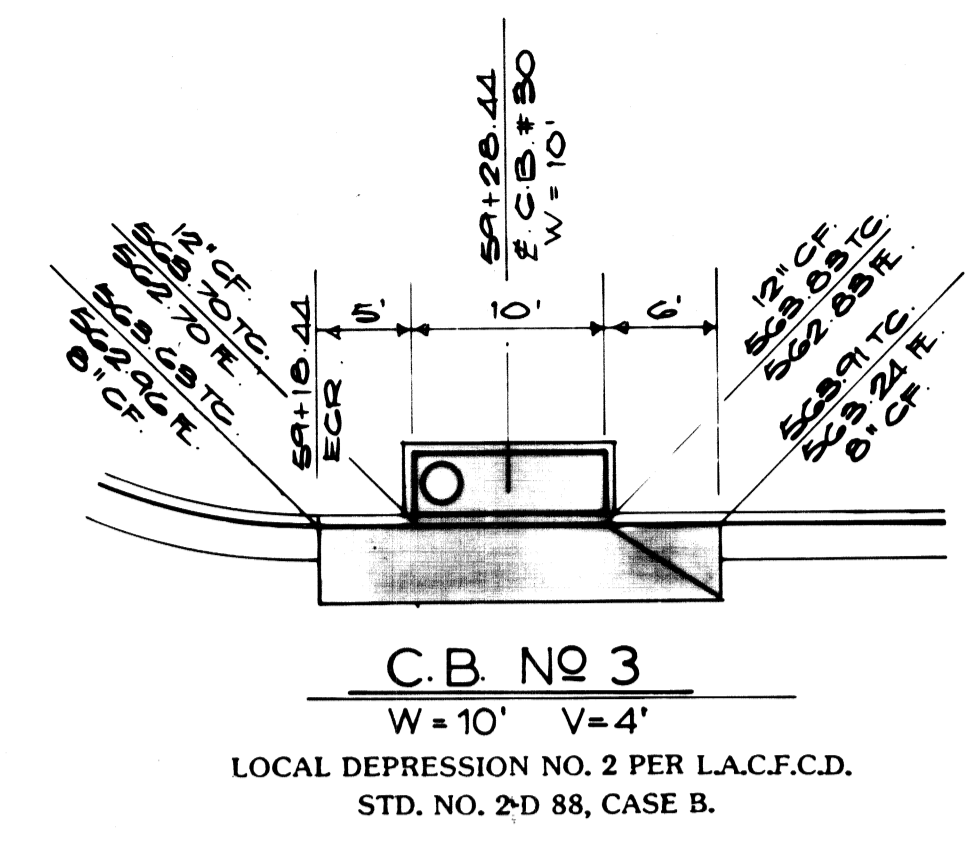
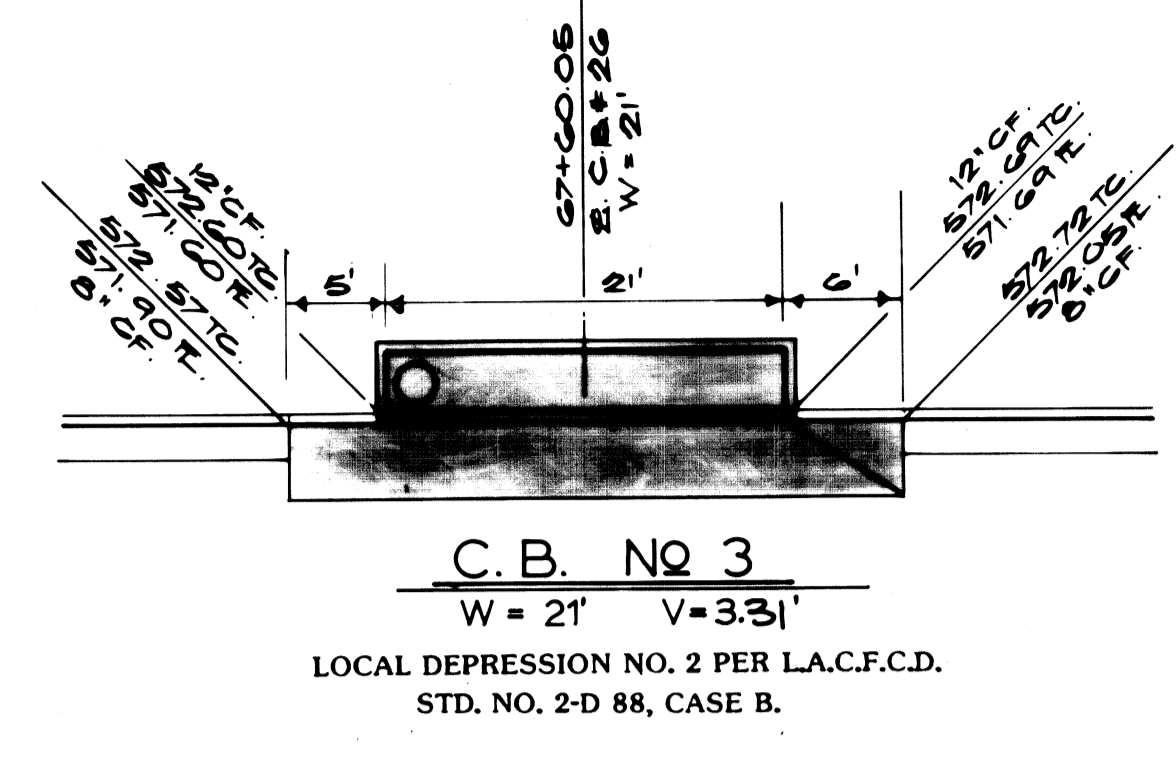
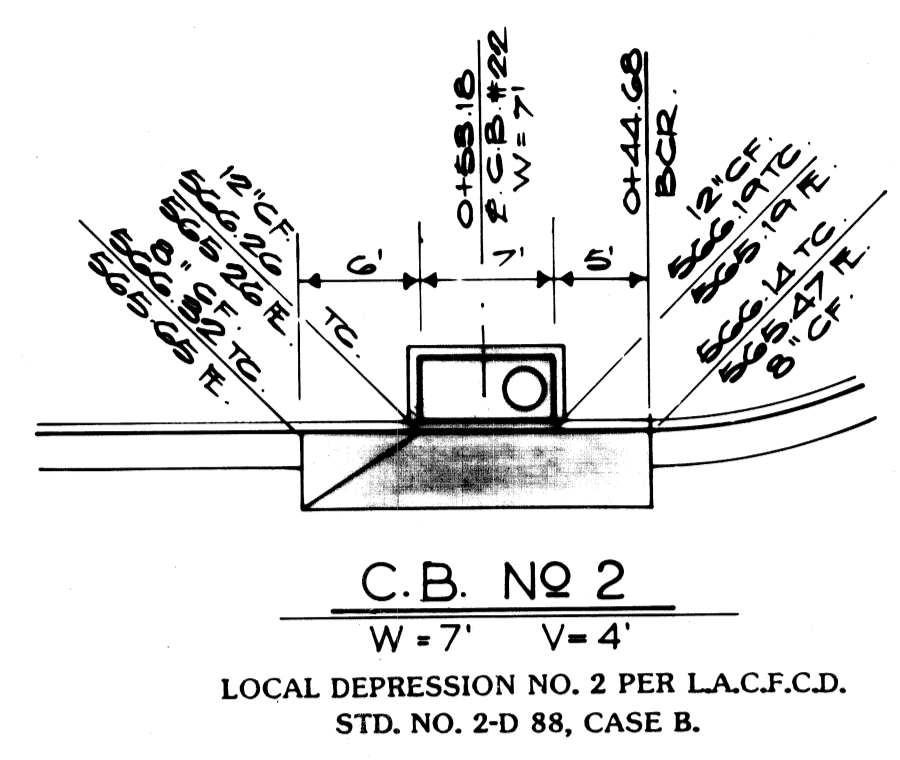
CITY OF WALNUT
TRACT NO. 32958
 STORM DRAIN PLAN
LINE "D"



PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS
1880 E. 18th Street
SANTA ANA, CALIFORNIA 92701
PHONE 714-836-2648
SIGNATURE *R.B. ...* R.E. No. 2438
CIVIL ENGINEER

REVISIONS			
REVISED BY	RE. NO.	REVISED BY	RE. NO.

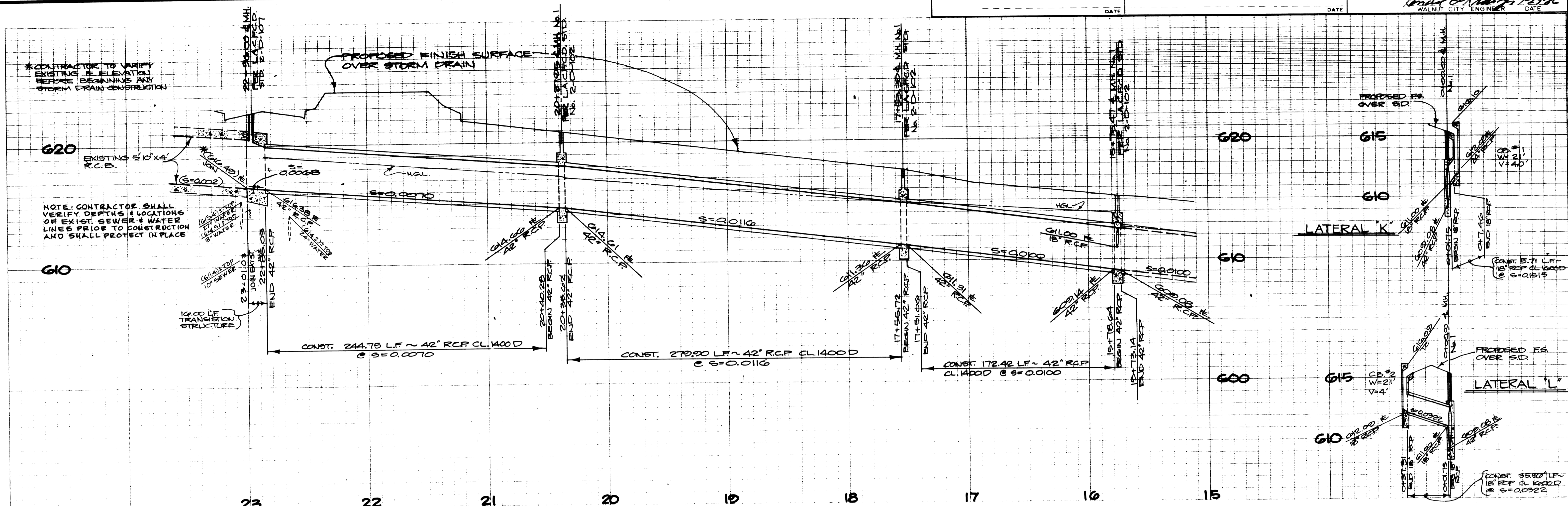
CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
CATH BASIN DETAILS



PLANS PREPARED BY:
MADOLE AND ASSOCIATES, INC.
 CONSULTING CIVIL ENGINEERS
 AND LAND PLANNERS
 1820 E. 18th Street
 SANTA ANA, CALIFORNIA 92701
 PHONE 714 • 835-2548
 SIGNATURE *R. E. Madole* R. E. No. 29488
 CIVIL ENGINEER

REVISIONS					
REVISED BY	RE. No.	REVISED BY	RE. No.	REVISED BY	RE. No.

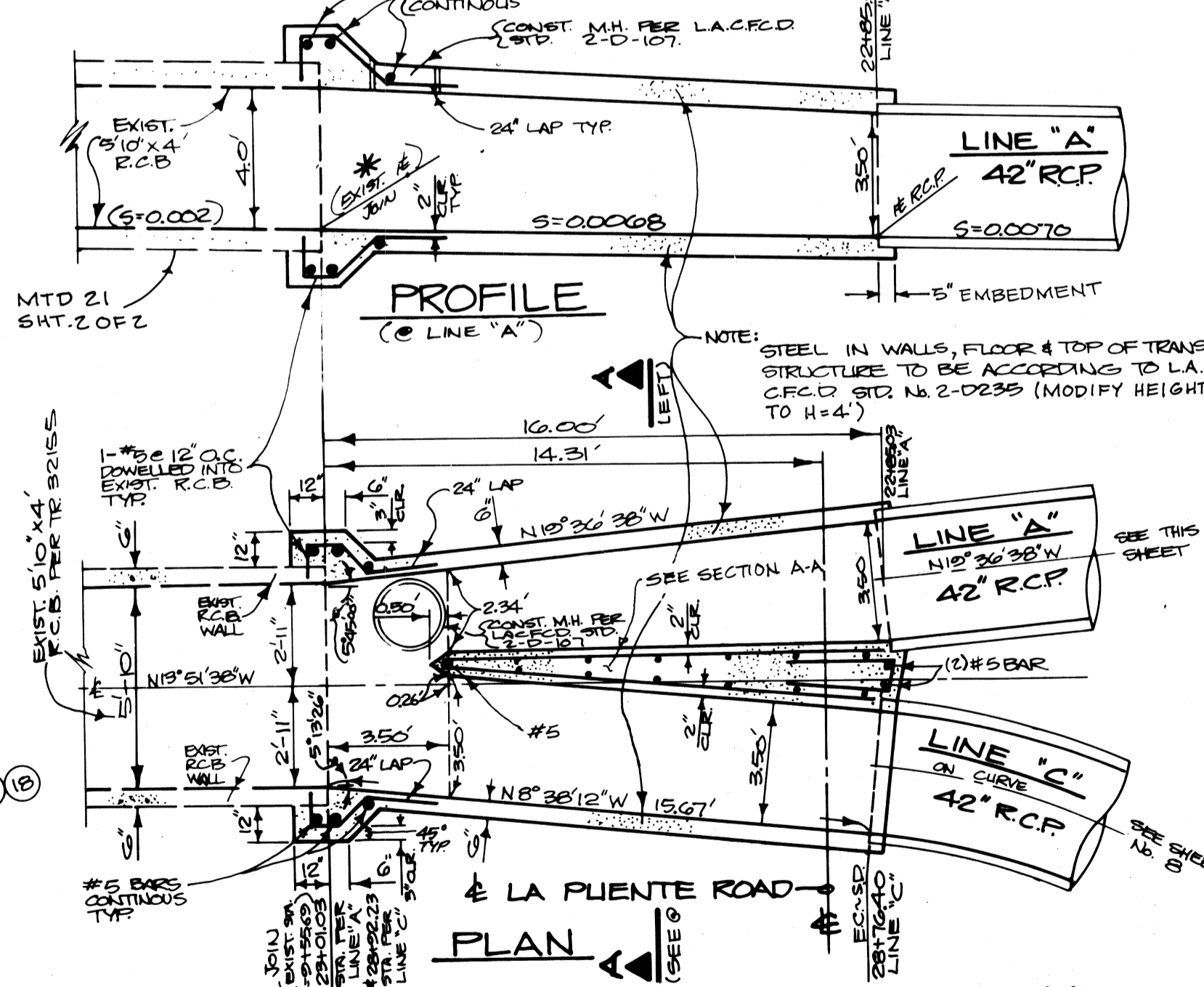
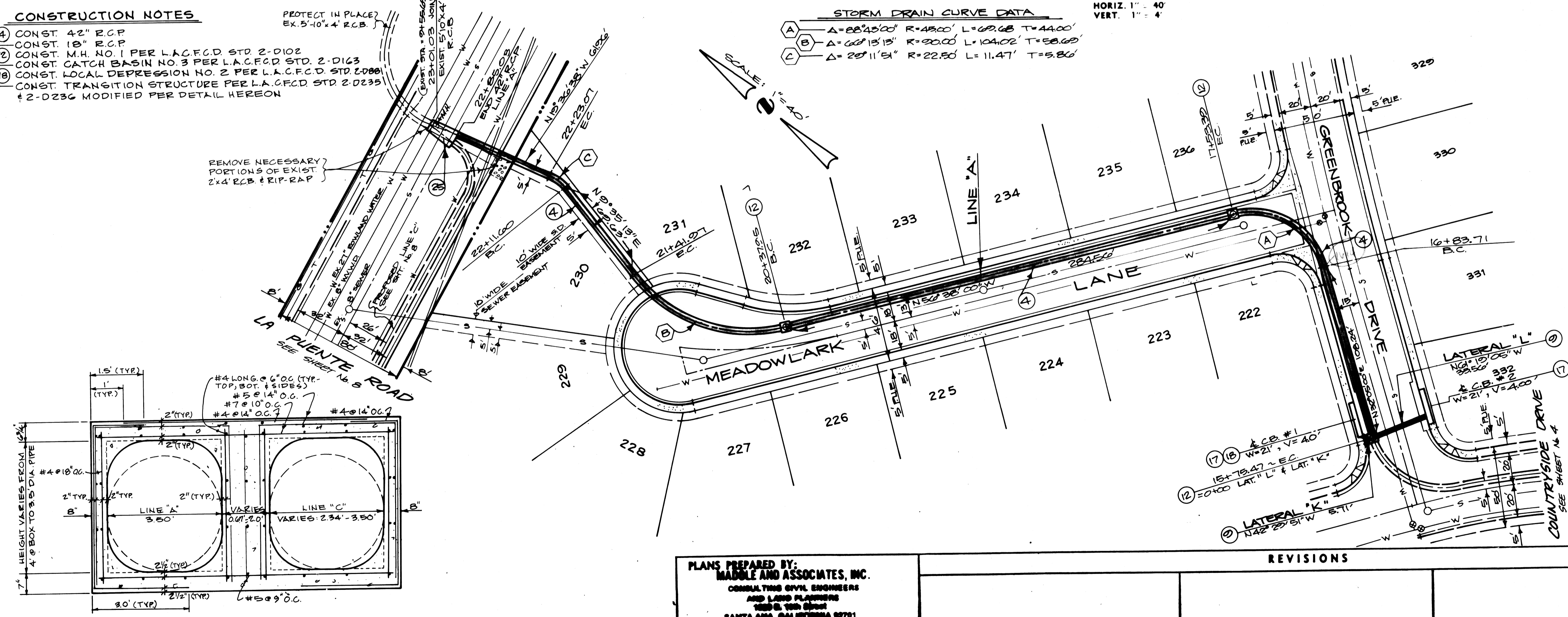
CITY OF WALNUT
TRACT NO. 32958
 STORM DRAIN PLAN
 CATCH BASIN DETAILS



- CONSTRUCTION NOTES**
- ④ CONST. 42" R.C.P.
 - ⑤ CONST. 18" R.C.P.
 - ⑥ CONST. M.H. NO. 1 PER L.A.C.F.C.D. STD. 2-0102
 - ⑦ CONST. CATCH BASIN NO. 3 PER L.A.C.F.C.D. STD. 2-0143
 - ⑧ CONST. LOCAL DEPRESSION NO. 2 PER L.A.C.F.C.D. STD. 2-0201
 - ⑨ CONST. TRANSITION STRUCTURE PER L.A.C.F.C.D. STD. 2-0235
 - ⑩ 2-0236 MODIFIED PER DETAIL HEREON

STORM DRAIN CURVE DATA

Curve	Δ	R	L	T
A	28°45'00"	R=4800'	L=67.08'	T=44.00'
B	60°13'15"	R=2000'	L=104.02'	T=58.00'
C	20°11'51"	R=2250'	L=11.47'	T=5.86'



SECTION A-A
NO SCALE

PLANS PREPARED BY:
MAHLE AND ASSOCIATES, INC.
CONSULTING CIVIL ENGINEERS
AND LAND PLANNERS
1225 S. 10TH STREET
SANTA ANA, CALIFORNIA 92701
PHONE 714-836-2548

REVISIONS

REVISION	RE. No.	DATE	APPROVED

CITY OF WALNUT
TRACT NO. 32958
STORM DRAIN PLAN
LINE "A"