GENERAL NOTES

1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF RIVERSIDE DEPT. OF PUBLIC WORKS. STANDARD DRAWINGS, AND THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CURRENT EDITION.
2. 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 EXCEPT 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.
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. THE CONTRACTOR SHALL CALL IN A LOCATIONS REQUEST TO UNDERGROUND SERVICE ALERT (USA), PHONE No. 1-800-422-4133, TWO WORKING DAYS BEFORE UNDERGROUND 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.
5. THE 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.
6. ANY TRAFFIC CONTROL STRIPING OBLITERATED AND/OR BADLY WORN DURING CONSTRUCTION SHALL BE RESTORED BY THE CONTRACTOR WITHIN FIVE (5) DAYS AFTER NOTIFICATION FROM THE CITY INSPECTOR.
7. WHERE EXISTING PAVEMENT JOINS NEW PAVEMENT, TRIM EDGE OF EXISTING PAVEMENT TO A SMOOTH, STRAIGHT LINE. CONSTRUCT MATCH-UP PAVING AS SHOWN ON PLAN AND OVERLAY PAVING AS DIRECTED IN THE FIELD TO PRODUCE A SMOOTH SECTION.
8. 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 THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
9. ALL SLOPES SHOWN ARE A MAXIMUM CUT OR FILL OF 2: 1, UNLESS OTHERWISE NOTED ON PLAN, AND WILL BE STAKED IN THE FIELD.
10. ELEVATIONS FOR CROSS-GUTTERS AND CONSTRUCTION BEYOND ECR's AND BCR's ARE FLAGGED IN THE PLAN VIEW.
11. **MAINLINE ELECTRICAL UNDERGROUND CONDUIT (WITH PULL ROPES) WILL BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE WITH THE RIVERSIDE PUBLIC UTILITIES DEPT. WHEN INSTALLING REMAINING CONDUIT FOR STREET LIGHTS AND PULLING ELECTRICAL WIRING AND DURING INSTALLATION AND FINAL CONNECTION OF THE ELECTROLIERS. (SEE DWG. L5-13764 AND PART 6 OF THE SPECIFICATIONS)**

SHEET INDEX

SHEET NO.	DESCRIPTION
1 - 2	INDEX SHEETS
3 - 4	TYPICAL SECTIONS
5 - 21	STREET IMPROVEMENT PLANS
22 - 32 C	STORM DRAIN IMPROVEMENT PLANS
33 - 36, 40	WATER IMPROVEMENT PLANS
37 - 40	SEWER IMPROVEMENT PLANS
41 - 50	STRIPING SIGNING PLANS
51 - 53	TRAFFIC SIGNAL PLANS
54	SIGNAL INTERCONNECT PLAN
55	IRRIGATION NOTES & LEGEND
56 - 64	IRRIGATION PLANS
65 - 66	IRRIGATION DETAILS & ENLARGED PLANS
67	CONSTRUCTION NOTES & ENLARGED PLANS
68	PLANTING LEGEND & ENLARGED PLANS
69 - 77	CONSTRUCTION/PLANTING PLANS
78	PLANTING DETAILS
79 - 80	S.A.W.P.A. WATER DETAILS
L5-13764 (3 SHEETS)	STREET LIGHTING (PREPARED BY CITY OF RIVERSIDE)
TRACT 21434	STREET PLANS & PROFILES
1	TITLE SHEET
2 - 3	ALESSANDRO BOULEVARD

CONSTRUCTION NOTES

NO.	ITEM DESCRIPTION
1.	PLACE 4" THICK A.C. PAVEMENT OVER 8" THICK CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE HAVING AN R-VALUE OF 52 OR HIGHER.
2.	CONSTRUCT REVERSE TAPER PER CITY OF RIVERSIDE STD. DWG. 122
3.	CONSTRUCT PARABOLIC FLARE PER CITY OF RIVERSIDE STD. DWG. 123
4.	CONSTRUCT 6" CURB WITH 2' GUTTER (TYPE I) PER CITY OF RIVERSIDE STD. DWG. 200.
5.	CONSTRUCT 8" CURB WITH 2' GUTTER (TYPE I) PER CITY OF RIVERSIDE STD. DWG. 200
6.	CONSTRUCT 8" (TYPE II) CURB ONLY PER CITY OF RIVERSIDE STD. DWG. 200
7.	CONSTRUCT 6" CURB WITH 5' GUTTER (TYPE I) PER CITY OF RIVERSIDE STD. DWG. 200
8.	CONSTRUCT SIDEWALK PER CITY OF RIVERSIDE STD. DWG. 325
9.	REMOVE EXISTING A.C. PAVEMENT AS SHOWN
10.	RELOCATE EXISTING 1" AIR-VACUUM & AIR-RELEASE VALVE ASSEMBLY PER PLAN AND PER W.M.W.D. STD. DWG. WA-027.1B
11.	RELOCATE EXISTING 4" AIR-VACUUM & AIR-RELEASE VALVE ASSEMBLY PER PLAN AND PER W.M.W.D. STD. DWG. WA-027.4B
12.	CONSTRUCT SIDEWALK AND WHEEL CHAIR RAMP PER CITY OF RIVERSIDE STD. DWGS. 304 & 120
13.	CONSTRUCT MEDIAN OPENING (TYPE III) PER CITY OF RIVERSIDE STD. DWG. 121
14.	REMOVE EXISTING A.C. BERM AS SHOWN
15.	RAISE EXISTING WATER VALVE TO GRADE PER W.M.W.D. STD. DWG. WA-012.5
16.	RELOCATE EXISTING FIRE HYDRANT PER W.M.W.D. STD. DWG. WA-033.B
17.	RELOCATE HIGH PRESSURE GAS SIGN
18.	CONSTRUCT C.S.P. INLET PER PLAN & PER CITY OF RIVERSIDE STD. DWG. No. 412.
19.	EXISTING TELEPHONE/POWER POLES TO BE RELOCATED BY OTHERS
20.	TO BE RAISED BY OTHERS
21.	TO BE RELOCATED BY OTHERS
22.	RELOCATE STREET SIGN
23.	RELOCATE EXISTING WATER METER PER W.M.W.D. STD. DWG. WL-007.B
24.	EXISTING CASING VENT PIPE TO BE PROTECTED IN PLACE. FOUR CORNERS PETROLEUM GAS COMPANY WILL RELOCATE UPON 72 HOURS NOTICE. CONTACT DAVE ANDERSON AT (213) 428-9454
25.	CONSTRUCT FACING GROUTED RIP-RAP PER PLAN AND PER SECTION 72 OF THE CAL-TRANS SPEC.
26.	REMOVE EXISTING CULVERT
27.	RELOCATE EXISTING MAILBOX
28.	RAISE EXISTING WATER METER TO GRADE PER W.M.W.D. STD. DWG. WL-007.B
29.	REMOVE EXISTING CURB & GUTTER
30.	REMOVE CONCRETE HEADWALL
31.	CONSTRUCT 6" A.C. BERM (TYPE I) PER CITY OF RIVERSIDE STD. DWG. 250
32.	CONSTRUCT CURB TRANSITION (8" TO 6") PER PLAN AND PROFILE

CONSTRUCTION NOTES (CONT.)

NO.	ITEM DESCRIPTION
33.	PLACE 4" THICK A.C. PAVEMENT OVER 7" THICK CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE HAVING AN R-VALUE OF 60 OR HIGHER.
34.	PLACE 4" THICK A.C. PAVEMENT OVER 8" THICK CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE HAVING AN R-VALUE OF 41 OR HIGHER.
35.	REMOVE EXISTING WINGWALLS.
36.	RAISE EXISTING SEWER MANHOLE TO GRADE PER CITY OF RIVERSIDE STD. DWG. 500
37.	RECONSTRUCT EXISTING SEWER MANHOLE AND ADJUST TO GRADE PER CITY OF RIVERSIDE STD. DWG. 500
38.	RAISE EXISTING ELECTRIC VAULT TO GRADE PER CITY OF RIVERSIDE PUBLIC UTILITIES DEPT. STD. DWGS. UGS-053, UGS -062, UGS-435 AND UGS-541
39.	CONSTRUCT JUNCTION STRUCTURE No. I PER R.C.F.C. STANDARD DWG. No. JS226.
40.	PROTECT IN PLACE.
41.	CONSTRUCT P.C.C. DRIVEWAY APPROACH (TYPE II WHERE A=15', B=29') PER CITY OF RIVERSIDE STD. DWG. 302
42.	RELOCATE AND/OR ADJUST EXISTING TRAFFIC PULL BOXES TO GRADE PER TRAFFIC SIGNAL PLANS
43.	CONSTRUCT BOX CULVERT WINGWALL (TYPE "A") PER CALTRANS STD. DWG. D84 AND PER PLAN & PROFILE
44.	CONSTRUCT PIPE HEADWALL PER CALTRANS STD. DWG. D89 AND PER PLAN & PROFILE.
45.	INSTALL STREET LIGHT ELECTROLIER WITH TWIN LUMINAIRES (COMPLETE, INCLUDING FOUNDATION) AND CONNECT PER CITY OF RIVERSIDE STD. DWGS. UGS-800 & UGS-801 AND SPECIAL DWG. L5-13764.
46.	CONSTRUCT 18" R.C.P. (2000-D)
47.	CONSTRUCT 24" R.C.P. (2000-D)
48.	CONSTRUCT DOUBLE 4'H X 8'W R.C.B. AND PARAPET CALTRANS STD. D81 & D83 AND PER PLAN & PROFILE
49.	CONSTRUCT DOUBLE 7'H X 7'W R.C.B. AND PARAPET CALTRANS STD. D81 & D83 AND PER PLAN & PROFILE
50.	CONSTRUCT 42" R.C.P. (850-D) OR C.I.P.P.
51.	CONSTRUCT 36" R.C.P. (1700-D) OR C.I.P.P.
52.	CONSTRUCT 36" R.C.P. (1800-D) OR C.I.P.P.
53.	CONSTRUCT 48" R.C.P. (1100-D) OR C.I.P.P.
54.	RELOCATE EXISTING CORROSION TEST STATION PER W.M.W.D. STD. DWG. WA-029
55.	RAISE EXISTING GAS VALVE TO GRADE PER CITY OF RIVERSIDE UTILITY DEPT. STD. DWG. C.W.D. 515
56.	RAISE EXISTING 4" AIR-VACUUM & AIR-RELEASE VALVE ASSEMBLY TO GRADE PER W.M.W.D. STD. DWG. WA-027.4B
57.	RAISE EXISTING FIRE HYDRANT TO GRADE PER W.M.W.D. STD. DWG. WA-033.B
58.	RAISE EXISTING CORROSION TEST STATION TO GRADE PER W.M.W.D. STD. DWG. WA-029
59.	RELOCATE AND/OR ADJUST TRAFFIC SIGNAL STANDARDS TO GRADE PER TRAFFIC SIGNAL PLANS
60.	RAISE EXISTING CORROSION TEST STATION TO GRADE PER DETAIL 1 ON SHEET 9 OF THE S.A.W.P.A. - WOODCREST WATERLINE REACH W2 CONSTRUCTION PLANS (SEE SHEET 79)
61.	RAISE EXISTING AIR & VACUUM VALVE ASSEMBLY TO GRADE PER DETAIL 1 ON SHEET 10 OF THE S.A.W.P.A. - WOODCREST WATERLINE REACH W2 CONSTRUCTION PLANS (SEE SHEET 80)
62.	RAISE EXISTING BLOWOFF VALVE AND FIRE HYDRANT TO GRADE PER DETAIL 3 ON SHEET 10 OF THE S.A.W.P.A. - WOODCREST WATERLINE REACH W2 CONSTRUCTION PLANS (SEE SHEET 80)
63.	**INSTALL STREET LIGHT ELECTROLIER (COMPLETE, INCLUDING FOUNDATION)& CONNECT PER CITY OF RIVERSIDE STD. DWGS. UGS-800 & UGS-801 AND SPECIAL DWG. L5-13764**
64.	CONSTRUCT CURB DEPRESSION ONLY, FOR DRIVEWAY APPROACH, PER CITY OF RIVERSIDE STD. DWGS. 302 & 303 AND PER PLAN
65.	REMOVE EXISTING CATCH BASIN
66.	CONSTRUCT TYPE G1 DRAINAGE INLET PER CALTRANS STD. DWG. D73
67.	CONSTRUCT TYPE "EZ" MANHOLE PER CITY OF RIVERSIDE STD. 431
68.	RAISE EXISTING 4" BLOWOFF **AND GATE VALVE ASSEMBLY TO GRADE PER W.M.W.D. STD. DWG. WA-014.4B.**
69.	CONSTRUCT 10.5' WIDE SIDEWALK PER CITY OF RIVERSIDE STD. DWG. 325 AND PER GRADING SHOWN ON PLANS
70.	CONSTRUCT NO. 2 BACKING RIP-RAP PER PLAN AND PER SECTION 72 OF THE CALTRANS SPECIFICATIONS

CONSTRUCTION NOTES (CONT.)

NO.	ITEM DESCRIPTION
71.	CONSTRUCT 1/4 TON RIP-RAP PER PLAN AND PER SECTION 72 OF THE CALTRANS SPECIFICATIONS
72.	CONSTRUCT 1/4 TON GROUTED RIP-RAP PER PLAN AND PER SECTION 72 OF THE CALTRANS SPECIFICATIONS
73.	CONSTRUCT CATCH BASIN (W & V SHOWN ON PLAN) PER CITY OF RIVERSIDE STD. DWGS. 402 & 405
74.	CONSTRUCT JUNCTION STRUCTURE "B" PER CITY OF RIVERSIDE STD. DWG. 421
75.	CONSTRUCT LIGHT CLASS RIP-RAP PER PLAN AND PER SECTION 72 OF THE CALTRANS SPECIFICATIONS
76.	CONSTRUCT "L" HEADWALL PER CALTRANS STD. DWG. D89 AND PER PLAN & PROFILE
77.	CONSTRUCT CONCRETE COLLAR PER CITY OF RIVERSIDE STD. DWG. 424
78.	CONSTRUCT MANHOLE "AX" PER CITY OF RIVERISDE STD. DWG. 430
79.	CONSTRUCT TIMBER BULKHEAD PER CITY OF RIVERSIDE STD. DWG. 456
80.	CONSTRUCT 30" R.C.P. (1250-D)
81.	CONSTRUCT 36" R.C.P. (1250-D)
82.	CONSTRUCT LIGHT CLASS GROUTED RIP-RAP PER PLAN AND PER SECTION 72 OF THE CALTRANS SPECIFICATION
83.	CONSTRUCT MANHOLE "JM" PER CITY OF RIVERSIDE STD. DWG. 432
84.	CONSTRUCT 10'-0" (W) X 6'-0" (H) R.C.B. AND PARAPET PER CALTRANS STD. DWG. D80 & D83 FOR SINGLE BOX CULVERT, "FLAT INVERT". USE SECTION FROM TABLE FOR MAXIMUM EARTH COVER = 10' (SEE SHEET 31)
85.	CONSTRUCT CONCRETE CROSS-GUTTER ONLY (NO SPANDRELS) PER CITY OF RIVERSIDE STD. DWG. 220 (W=6')
86.	CONSTRUCT 18" R.C.P. (2700-D WITH CASE I BEDDING, OR OPTIONALLY, 2000-D WITH CASE IV BEDDING)
87.	CONSTRUCT 18" CORRUGATED STEEL PIPE (C.S.P.)
88.	CONSTRUCT PIPE CULVERT HEADWALLS, ENDWALLS AND WINGWALLS PER CALTRANS STD. D90 AND PER PLANS & PROFILE
89.	CONSTRUCT 6'-0" (W) X 6'-0" (H) R.C.B. AND PARAPET PER CALTRANS STD. D80 & D83 FOR SINGLE BOX CULVERT. "FLAT INVERT" (SEE SHEET 31)
90.	CONSTRUCT CHAIN LINK HEADWALL FENCING PER CITY OF RIVERSIDE STD. DWG. 380
91.	CONSTRUCT 60" R.C.P. (1400-D)
92.	CONSTRUCT 60" R.C.P. (1100-D)
93.	CONSTRUCT JUNCTION STRUCTURE NO. 4 PER CITY OF RIVERSIDE STD. DWG. 423
94.	TO BE REMOVED BY CITY OF RIVERSIDE PUBLIC UTILITIES DEPT.
95.	CONSTRUCT 27" R.C.P. (1750-D)
96.	CONSTRUCT MODIFIED 6" (TYPE II) CURB ONLY PER CITY OF RIVERSIDE STD. DWG. 200.
97.	**RELOCATE EXISTING 4" BLOW OFF ASSEMBLY PER W.M.W.D. STD. DWG. WA-014.4B AND PER PLAN.**
98.	CONSTRUCT DRAINAGE INLET TYPE GTI PER CALTRANS STD. DWG. D74.
99.	REPLACE COVER AND ADJUST TO GRADE PER CITY OF RIVERSIDE STD. DWG. 451.
100.	CONSTRUCT 30" R.C.P. (1750-D).
101.	REMOVE AND DISPOSE OF CATCH BASIN, REPATCH STREET AND BULKHEAD PIPE PER CITY OF RIVERSIDE STD. DWG. 456.
102.	REMOVE CURB, GUTTER, AND SIDEWALK PER CITY OF RIVERSIDE STANDARDS.
103.	CONSTRUCT CROSS-GUTTER APRONS & CURB RETURNS PER CITY OF RIVERSIDE STD. DWG. 220.

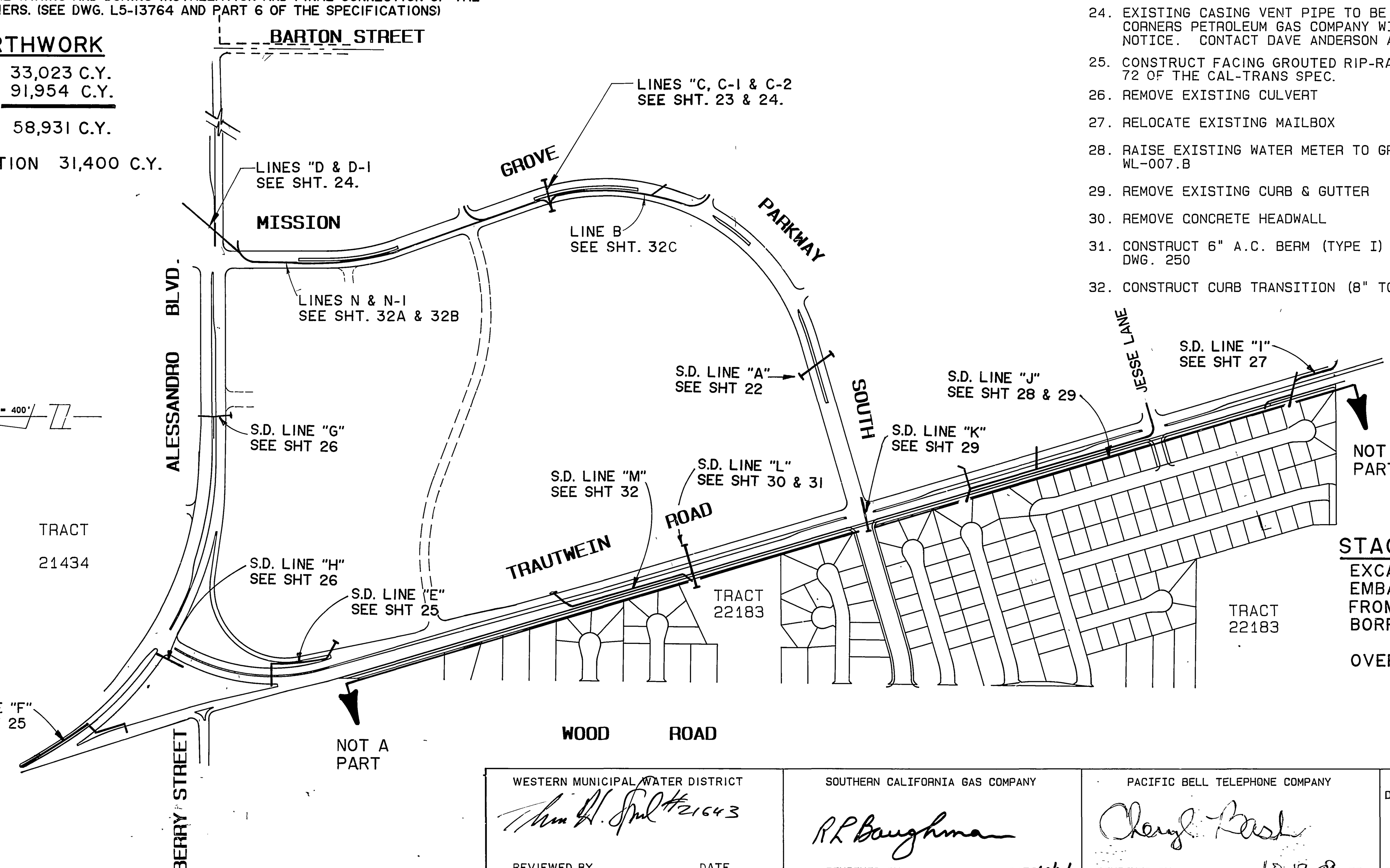
GENERAL NOTES (CONT.)

12. **ALL FLAGGED ELEVATIONS SHALL BE STAKED IN THE FIELD.**
13. **IN PAVEMENT OVERLAY AREAS, DISTRESSED EXISTING PAVEMENT MAY BE REQUIRED TO BE REMOVED AND REPLACED AS DIRECTED BY THE INSPECTOR PRIOR TO OVERLAYING WITH A.C. PAVING.**

STAGE I EARTHWORK

EXCAVATION	33,023 C.Y.
EMBANKMENT	91,954 C.Y.
FROM LOCAL BORROW AREA	58,931 C.Y.

OVER EXCAVATION 31,400 C.Y.



STAGE II EARTHWORK

EXCAVATION	14,805 C.Y.
EMBANKMENT	15,056 C.Y.
FROM LOCAL BORROW AREA	251 C.Y.

OVER EXCAVATION 2,785 C.Y.

WESTERN MUNICIPAL WATER DISTRICT	SOUTHERN CALIFORNIA GAS COMPANY	PACIFIC BELL TELEPHONE COMPANY	CITY OF RIVERSIDE PARKS AND RECREATION DEPT. IRRIGATION APPROVAL. (SEE SH. 55-78)	CITY OF RIVERSIDE OVERHEAD AND UNDERGROUND ELECTRICAL APPROVAL,	FOUR CORNERS PIPLINE	CHOICE TELEVISION
#21643 REVIEWED BY DATE	REVIEWED BY DATE 6/30/89	REVIEWED BY 10-13-89 DATE	PARK PROJECT COORDINATOR 12/20/89 DATE	for Dave Redding 12/6/89 ENG. MANAGER-ELECTRIC DATE	REVIEWED BY. Nov 1, 89 DATE	REVIEWED BY 10-16-89 DATE

AS BUILT 8/7/97 RJM

Underground Service Alert

Call: TOLL FREE **1-800 422-4133**

CALL BEFORE YOU DIG

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 No. 35459 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: AS NOTED
DATE: APRIL 1989

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S Mt Vernon Ave, Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK: P.K. NAIL & CITY TAG TOP OF LRG. ROCK 70' S'LY OF ALESS. & 0.60 MI. S.E'LY OF VIA VISTA DR. NEAR P.P. #775963-H. ELEV. = 1502.195'

MARK	REVISIONS	APPR.	DATE
2	ADDED CONSTRUCTION NOTES 101-103		4/29/91
1	ADDED CONSTRUCTION NOTES 99 & 100		2/20/90

DESIGNED BY M.M. DRAWN BY F.P. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/13/89
PARK DEPARTMENT		12/20/89
TRAFFIC DIVISION		12-12-89
CHIEF P. W. ENGR		12/12/89

APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No
STREET INDEX & CONSTRUCTION NOTES

HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 1 OF 88
FILE NO.: 87-10164

INDEXED 7-24-90

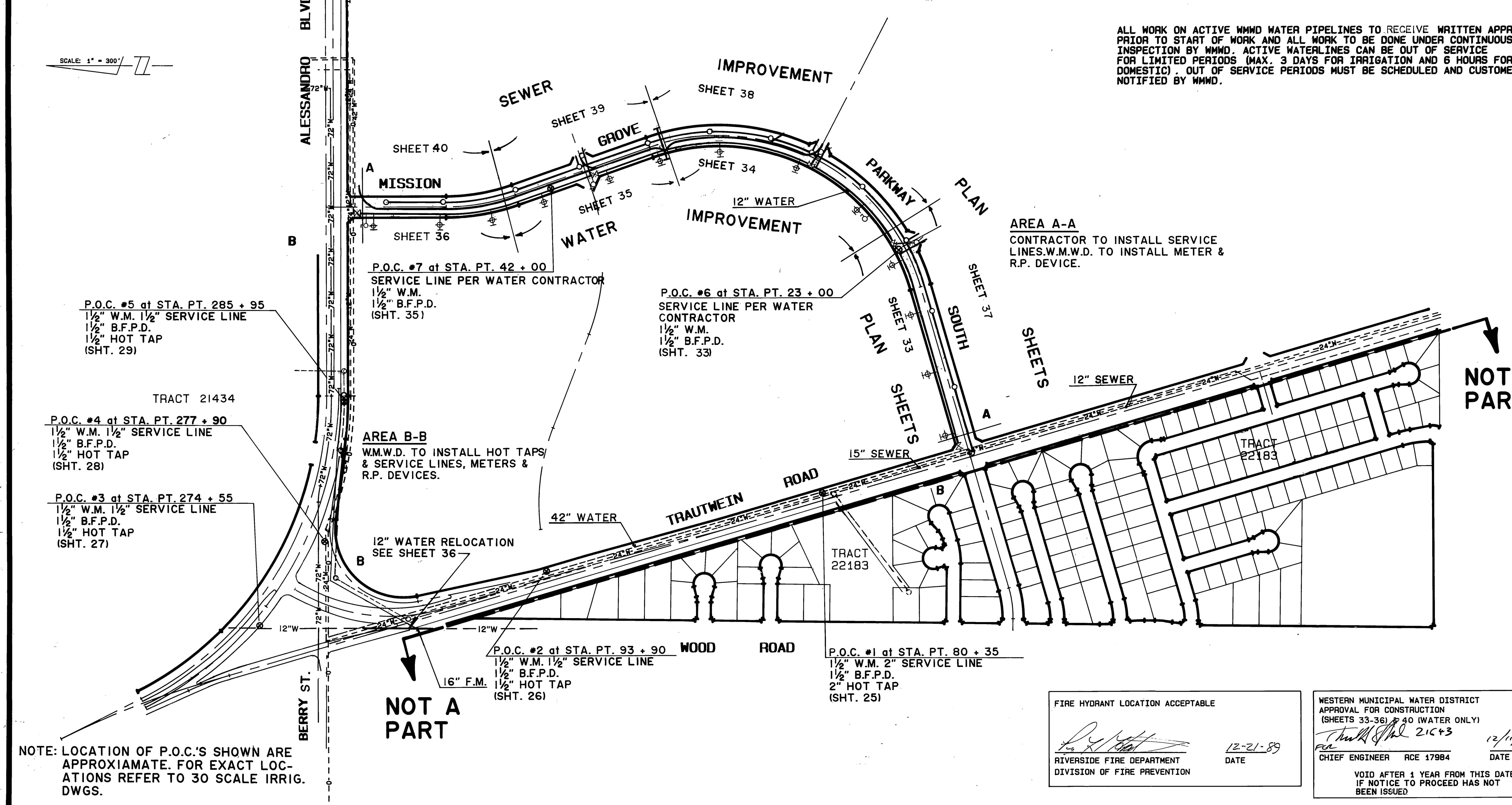
SEWER AND STORM DRAIN CONSTRUCTION NOTES:

1. Sewer and storm drain elevations shown are to invert (flowline of conduit.
2. Straight slopes shall be maintained between inverts shown.
3. Adjust all valve boxes, pull boxes and manholes to finish grade unless otherwise shown or directed. Manholes in open fields shall be set two (2) feet above grade, approximate rim elevations are shown on the plan.
4. Pipe zone and trench backfill shall be in accordance with detail drawings and specifications. Bedding shall be Case I per City of Riverside Std. Dwg. 452 unless noted otherwise.
5. All sewer manhole steps shall be plastic reinforced with 1/2" diameter steel bar. Tread shall be of the "non-skid" type with sides raised to prevent slipping. (As manufactured by M.A. Industries, Inc. or approved equal.)
6. All sewer manholes deeper than twelve (12) feet to the shelf shall be equipped with a "safety climb" as manufactured by North Consumer Safety Products or approved equal.
7. All sewer manholes to be constructed per City of Riverside standard 500 with the following modifications: C/L station shown is the physical center of the manhole and not the offset C/L of the cover. Elevations shown at C/L refer to the prolonged invert grade lines.
8. Contractor is to verify existing sewer elevations prior to construction.
9. A plug shall be installed and will remain in place where new sewers connect with the existing sewers until the new sewer is accepted by the city.
10. The sewer contractor shall adjust manholes to final grade after paving is completed.

WATER LEGEND

(symbol)	Proposed waterline	(symbol)	"Standard" 6" fire hydrant (with 4" x 2 1/2" outlets)
(symbol)	Existing waterline or by others	(symbol)	"Super" 8" fire hydrant (with 4" x 2 1/2" x 2 1/2" outlets)
(symbol)	Gate valve/ tapping valve	(symbol)	Air-vacuum & air release valve assembly
(symbol)	Hot tap	(symbol)	Blow-off valve assembly
(symbol)	Tee, flanged	(symbol)	Water service w/meter box
(symbol)	Cross, flanged		
(symbol)	90 degree elbow, flanged		
(symbol)	Reducer, flanged, eccentric type		
(symbol)	Blind flange and ring flange assembly		

ALL WORK ON ACTIVE WMWD WATER PIPELINES TO RECEIVE WRITTEN APPROVAL PRIOR TO START OF WORK AND ALL WORK TO BE DONE UNDER CONTINUOUS INSPECTION BY WMWD. ACTIVE WATERLINES CAN BE OUT OF SERVICE FOR LIMITED PERIODS (MAX. 3 DAYS FOR IRRIGATION AND 6 HOURS FOR DOMESTIC). OUT OF SERVICE PERIODS MUST BE SCHEDULED AND CUSTOMERS NOTIFIED BY WMWD.



WATER CONSTRUCTION NOTES

1. Water system shall be constructed by the City for dedication to Western Municipal Water District and shall comply to all District requirements plus those requirements of all other public governing bodies.
2. Construction, materials, testing and inspection shall comply with Western Municipal Water District's Standards and Specifications, and shall meet or exceed the requirements of the City of Riverside and the American Water Works Association (AWWA) Standards. Failure to meet any of the above requirements will be cause for rejection.
3. Pipe fittings, valves and appurtenances shall be of the pipe pressure class (NOT W.W.P. Class) shown on the profile of these plans.
4. 12-Inch and under pipe to be C.M.L. & A.W. Steel pipe; all pipe over 12-inch to be C.M.L. & C. Steel pipe. All pipe 16-inch and under to have 12 gauge wall thickness.
5. Minimum cover over pipe to be 48". Refer to plan and profile drawing for cover required for pipe when conditions require more depth.
6. Whenever a waterline encounters a storm drain pipe or other obstruction and crossing over the obstruction will result in less than 36 inches of cover over the watermain, it shall cross under the obstruction (minimum 6" clear).
7. Contractor shall determine depth and location of existing underground facilities prior to trenching.
8. Contractor shall shore all trenches and conduct all construction and operations in accordance with CAL-OSHA requirements.
9. Pipe shall be handled so as to protect pipe, joints, lining and coating, and carefully bedded to provide continuous bearing and prevent uneven settlement. Pipe shall be protected against floatation at all times. Open ends shall be sealed at all times when construction is not in progress.
10. Pipe joints shall not be deflected at any angle greater than that maximum angle recommended by the pipe manufacturer.
11. Full welds to be double pass, minimum.
12. Taps of pipeline shall have District approved reinforced saddle outlets welded to pipe.
13. Backfill shall be compacted to a relative density of 90%; equivalent to the surrounding ground; or City Standards whichever is greater.
14. Test pressure shall be 150% of pipe Class Rating. (ie: Class 150=225 psi test pressure) Maximum allowable leakage is 5 gallons/inch of pipe dia/mi of pipe length/24 hrs. No visible leakage is permitted. Minimum test duration is 4 hours. District inspector to inspect test using District provided pressure gauge. Inspector time spent inspecting and required retests (including rate and overhead) shall be at the expense of the City.
15. Fittings shall be fabricated steel or forged steel. All fittings to be cement mortar lined. No cast iron fittings shall be allowed.
16. Pipe connections shall be bell and spigot rubber-gasket joints unless otherwise shown on drawings. Upon written approval by the Engineer weld-bell slip joint pipe may be used.
17. Open trench at any one time shall be limited to 500 feet along road right-of-way, unless otherwise approved in writing by the Engineer. Trench shall be backfilled and compacted at the conclusion of each day.
18. Surface improvements damaged or removed as a result of the contractors operations shall be reconstructed by the contractor to City of Riverside Standards.
19. Fire hydrants and air valves to be located per City of Riverside Std. C.W.D. 700 & 451.
20. The Contractor shall provide one set of prints showing all "As-Built" conditions.
21. Water meters service laterals to be located in the field as directed and approved by W.M.W.D. the contractor shall provide "AS -BUILTS" showing stationing of service lateral connections. (W.M.W.D. will install meters).
22. "W" imprint shall be placed on curb face at each service lateral (meter) location.
23. Any revision to these drawings must be approved in writing by WMWD.

WATER CERTIFICATION

I certify that the design of the water system for CFD 86-1 is in accordance with the Water System expansion plans of Western Municipal Water District of Riverside County, and that the water service, storage and distribution system will be adequate to provide water service to such tract. This certification does not constitute a guarantee that it will supply water to such tract at any specific quantities, flows or pressures for fire protection or any other purpose.

(signature) CHIEF ENGINEER RCE 17984 — DATE 12.11.89

FIRE HYDRANT LOCATION ACCEPTABLE
(signature) RIVERSIDE FIRE DEPARTMENT, DIVISION OF FIRE PREVENTION — DATE 12-21-89

WESTERN MUNICIPAL WATER DISTRICT
APPROVAL FOR CONSTRUCTION
(SHEETS 33-36) & 40 (WATER ONLY)
(signature) 21643 FOR CHIEF ENGINEER RCE 17984 — DATE 12/11/89
VOID AFTER 1 YEAR FROM THIS DATE IF NOTICE TO PROCEED HAS NOT BEEN ISSUED

WESTERN MUNICIPAL WATER DISTRICT
IRRIGATION REVIEW OF
(SHEETS 55-78)
(signature) #21643 SUPERVISING DESIGN ENGINEER, RCE 21643 — DATE 12/11/89

WESTERN MUNICIPAL WATER DISTRICT
SEWER SYSTEM REVIEWED BY
(SHEETS 37-40)
(signature) SUPERVISING DESIGN ENGINEER, RCE 21643 — DATE 12/11/89

AS BUILT 8/7/97 RJM

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 — RODNEY D. CRAMPTON — No. C22522 — Exp. 12-31-89 — CIVIL — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Rodney D Crampton
REGISTERED CIVIL ENGINEER NO. 22522
EXPIRATION DATE: 12/31/89 DATE: 9-8-89
APPROVED BY:

JFD — J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS NOTED
DATE: DEC. 1988
BENCH MARK: SEE SHEET No. I

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY F.P. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	(initials)	12/13/89
PARK DEPARTMENT	(initials)	12/20/89
TRAFFIC DIVISION	(initials)	12-12-89
CHIEF P. W. ENGR.	(initials)	12/12/89

APPROVED BY Barry Beck — DIRECTOR OF PUBLIC WORKS — DATE 12/15/89

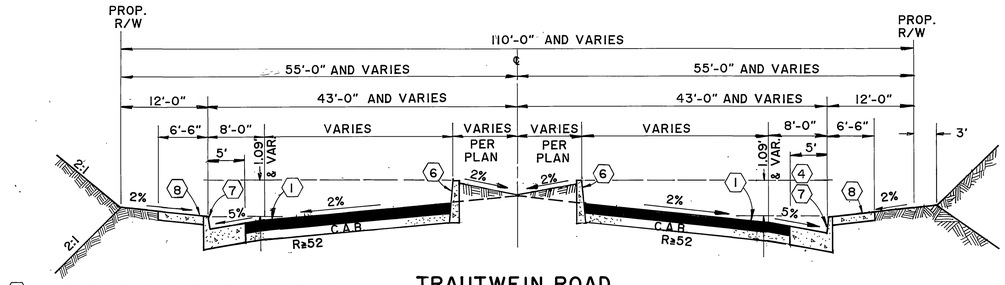
CFD 86-I IMPROVEMENT AREA NO. I

WATER & SEWER INDEX SHEET

HORIZ. SCALE: 1" = 300' VERT. SCALE: 1" N/A

PROJECT NO. R-3056
SHEET 2 OF 88
FILE NO.: 8710164

INDEXED 7-24-90



(1) — CONSTRUCT 4" THICK A.C. PAVING OVER 8" CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE WITH R-VALUE OF 52 OR GREATER.

TRAUTWEIN ROAD

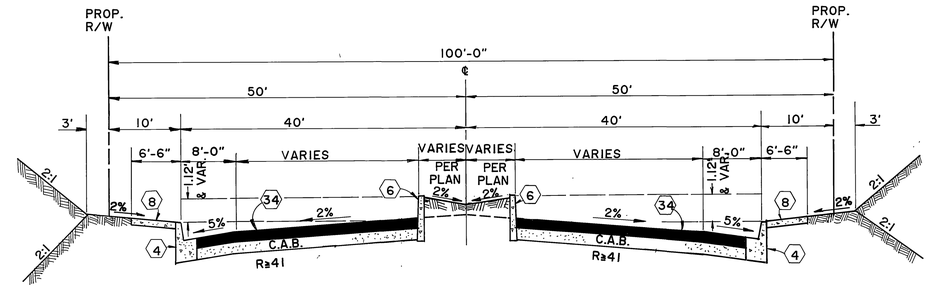
N.T.S.
T.I.= 8.5

SOUTHBOUND

STA. 50+09.30 TO STA. 58+11.69 (OMIT SIDEWALK)
STA. 58+11.69 TO STA. 59+17.69 (JESSE LANE, SEE SHEET 5)
STA. 59+17.69 TO STA. 72+25.80 (OMIT SIDEWALK)
STA. 72+25.80 TO 73+75.80 (MIS. GRV. PKWY. S. , SEE SHEET 6)
STA. 73+75.80 TO STA. 89+51.48 (OMIT SIDEWALK)
STA. 89+51.48 TO STA. 90+70.99 (MOSS ST. SEE SHEET 8)
STA. 90+70.99 TO STA. 94+00.00 (OMIT SIDEWALK)
STA. 94+00.00 TO STA. 101+47± (CONSTRUCT AS SHOWN)

NORTHBOUND

STA. 49+56.17 TO STA. 58+11.69 (5' GUTTER)
STA. 58+11.69 TO STA. 59+17.69 (JESSE LANE, SEE SHEET 5)
STA. 59+17.69 TO STA. 72+25.80 (5' GUTTER)
STA. 72+25.80 TO STA. 73+75.80 (MIS. GRV. PKWY. S., SEE SHEET 6)
STA. 73+75.80 TO STA. 89+66.42 (5' GUTTER)
STA. 89+66.42 TO STA. 90+20.00 (TRANSITION TO 2' GUTTER)
STA. 90+20.00 TO STA. 92+94.68 (2' GUTTER)
STA. 94+53.89 TO STA. 100+23.78 (5' GUTTER AND OMIT SIDEWALK)



(34) — CONSTRUCT 4" THICK A.C. PAVING OVER 8" CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE WITH AN R-VALUE OF 41 OR GREATER.

MISSION GROVE PARKWAY SOUTH

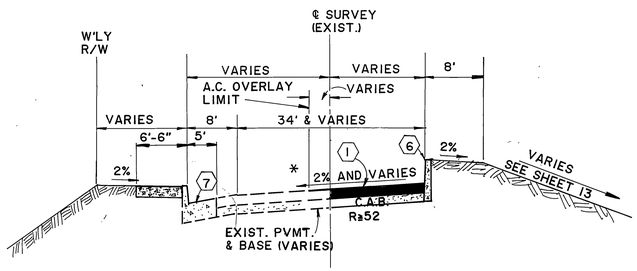
N.T.S.
T.I. = 7.5

SOUTHBOUND

STA. 9+29.52 TO STA. 10+29.52 (X-SLOPE VARIES & NO MEDIAN)
STA. 10+29.52 TO STA. 35+70.14 (MEDIAN VARIES)
STA. 35+70.14 TO STA. 37+12.04 (FUTURE INTERSECTION, SEE SHEET 20)
STA. 37+12.04 TO STA. 47+73.40 (MEDIAN VARIES)

NORTHBOUND

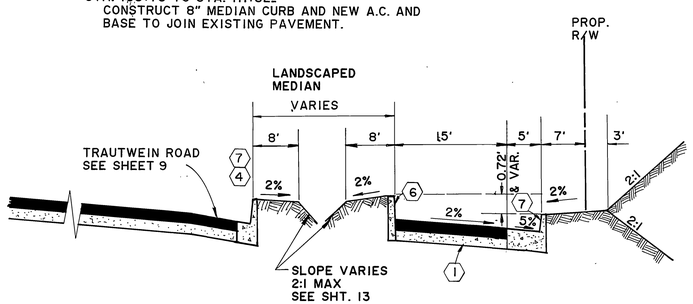
STA. 9+29.52 TO STA. 10+29.52 (X-SLOPE VARIES & NO MEDIAN)
STA. 10+29.52 TO STA. 18+36.16 (MEDIAN VARIES)
STA. 18+36.16 TO STA. 19+66.88 (FUTURE INTERSECTION, SEE SHT. 18&19)
STA. 19+66.88 TO STA. 24+36.16 (MEDIAN VARIES)
STA. 24+36.16 TO STA. 25+66.88 (FUTURE INTERSECTION SEE SHT. 19)
STA. 25+66.88 TO STA. 35+71.04 (MEDIAN VARIES)
STA. 35+71.04 TO STA. 37+12.04 (FUTURE INTERSECTION, SEE SHT. 20)
STA. 37+12.04 TO STA. 47+83.40 (MEDIAN VARIES)



SE'LY ALESSANDRO-TRAUTWEIN TRANSITION

N.T.S. T.I. = 8.5

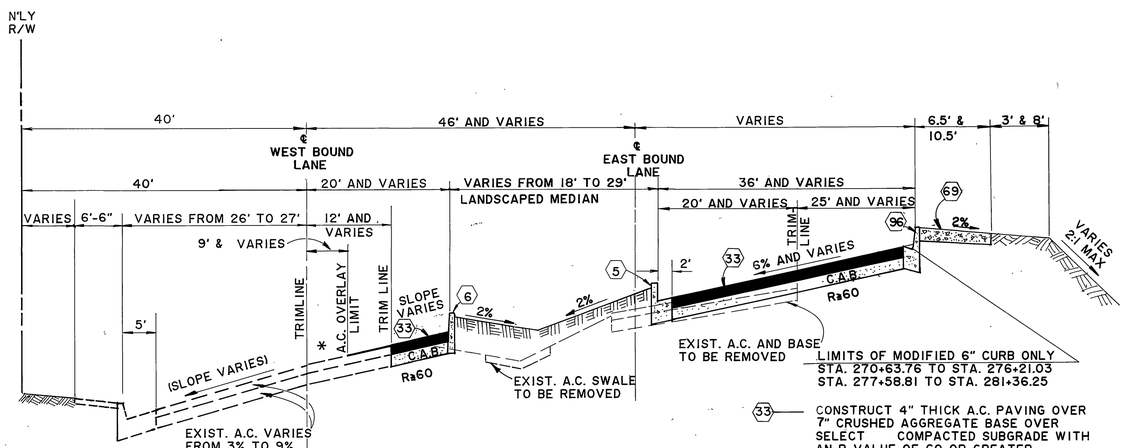
STA. 101+47± TO STA. 104+64±
CONSTRUCT S/W, 6" CURB, 5' GUTTER, NEW A.C. AND BASE AND 8" MEDIAN CURB
STA. 104+64± TO STA. 104+75
CONSTRUCT BERRY ST. INTERSECTION PER SHEET 10
STA. 105+75 TO STA. 111+82±
CONSTRUCT 8" MEDIAN CURB AND NEW A.C. AND BASE TO JOIN EXISTING PAVEMENT.



* COLD MILLING AS REQUIRED PER TYPICAL SECTION ON SHEET 4

NE'LY TRAUTWEIN-ALESSANDRO TRANSITION

N.T.S.
STA. 8+52.69 TO STA. 15+00.00 (FULL SUPERELEV.)-SHT. 11
STA. 15+00.00 TO STA. 17+50.00 (SUPERELEV.TRANSITION)-SHT. 11
T.I.= 8.5



LIMITS OF MODIFIED 6" CURB ONLY
STA. 270+63.76 TO STA. 276+21.03
STA. 277+58.81 TO STA. 281+36.25

(33) — CONSTRUCT 4" THICK A.C. PAVING OVER 7" CRUSHED AGGREGATE BASE OVER SELECT COMPACTED SUBGRADE WITH AN R-VALUE OF 60 OR GREATER.

LIMITS OF 10.5' S/W & 8' PKWY.
STA. 270+64± TO STA. 276+33±

LIMITS OF 6.5' S/W & 3' PKWY.
STA. 277+58± TO STA. 281+36±

ALESSANDRO BOULEVARD

N.T.S.
T.I. = 9.0

WESTBOUND

STA. 267+91.63 TO STA. 276+11.36 (CONSTRUCT AS SHOWN)
STA. 276+11.36 TO STA. 277+25.97 (TRAUTWEIN RD.,SEE SHT. 9 & 12)
STA. 277+25.97 TO STA. 285+91.91 (CONSTRUCTION AS SHOWN)

EASTBOUND

STA. 267+91.63 TO STA. 270+63.76 (MEDIAN C & G AND A.C. PAVING ONLY)
STA. 270+63.76 TO STA. 276+21.03 (CONSTRUCT AS SHOWN)
STA. 276+21.03 TO STA. 277+58.81(TRAUTWEIN RD.,SEE SHT. 9 & 12)
STA. 277+58.81 TO STA. 280+48±(CONSTRUCT AS SHOWN)
STA. 280+48± TO STA. 281+36± (OMIT S/W & BIKEWAY)

NOTE:
R-VALUE TESTS SHALL BE TAKEN AND STRUCTURAL PAVEMENT X-SECTIONS SHALL BE FINALIZED AFTER ROUGH GRADE HAS BEEN ACHIEVED. CONTRACTOR SHALL NOTIFY ENGINEER WHEN AREAS ARE READY FOR TESTING AND SHALL ALLOW 7 DAYS FOR FINALIZATION OF PAVEMENT DESIGN. EARTHWORK QUANTITIES FOR SUBGRADE PREP. SHALL BE ADJUSTED ACCORDING TO THE FINAL DESIGN.

NOTE:SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/7/97 RJM

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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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/12/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS NOTED
DATE: APRIL 1988
BENCH MARK: N/A

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY C.M.M. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

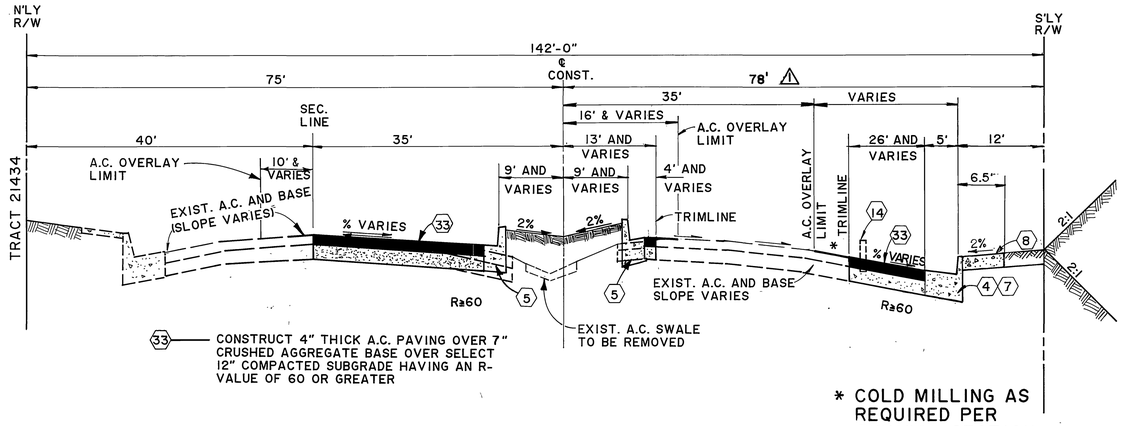
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TYPICAL SECTIONS

HORIZ. SCALE: VERT. SCALE:

PROJECT NO. R-3056
SHEET 3 OF 88
FILE NO.: 8710164

WWW 12/12/89 BAR 12/12/89

INDEXED 7-24-90 YH



* COLD MILLING AS REQUIRED PER TYPICAL SECTION THIS SHEET.

ALESSANDRO BOULEVARD

N.T.S.
T.I. = 9.0

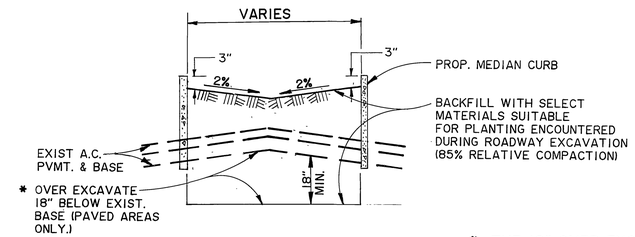
WESTBOUND

STA. 286+45.55 TO STA. 291+36.20 (CONSTRUCT AS SHOWN)
STA. 291+36.20 TO STA. 294+56.46 (CONSTRUCT PER TRACT 21434)
STA. 294+56.46 TO STA. 295+79.66 (MIS. GRV. PKWY. S. SEE SHEET 15)
STA. 295+79.66 TO STA. 301+00.00 (CONSTRUCT AS SHOWN)

EASTBOUND

STA. 282+55.± TO STA. 291+36.20 (CONSTRUCT AS SHOWN)
STA. 291+36.20 TO STA. 294+39.66 (CONSTRUCT AS SHOWN)

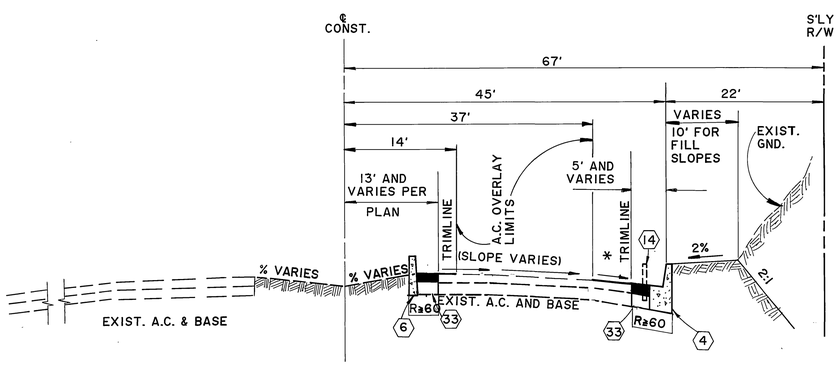
STA. 294+39.66 TO STA. 295+89.66 (MIS. GRV. PKWY. S. SEE SHEET 15)



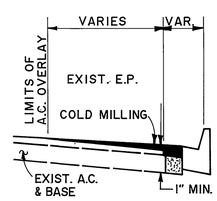
* THE 18" OVER EXCAVATION APPLIES TO ALL LANDSCAPE AREAS WHERE EXIST. A.C. PAVEMENT IS REMOVED

TYPICAL MEDIAN EXCAVATION AND BACKFILL DETAIL

N.T.S.



* COLD MILLING AS REQUIRED TYPICAL SECTION ON THIS SHEET.



TYPICAL SECTION COLD MILLING

N.T.S.

ALESSANDRO BOULEVARD

N.T.S.
T.I. = 9.0

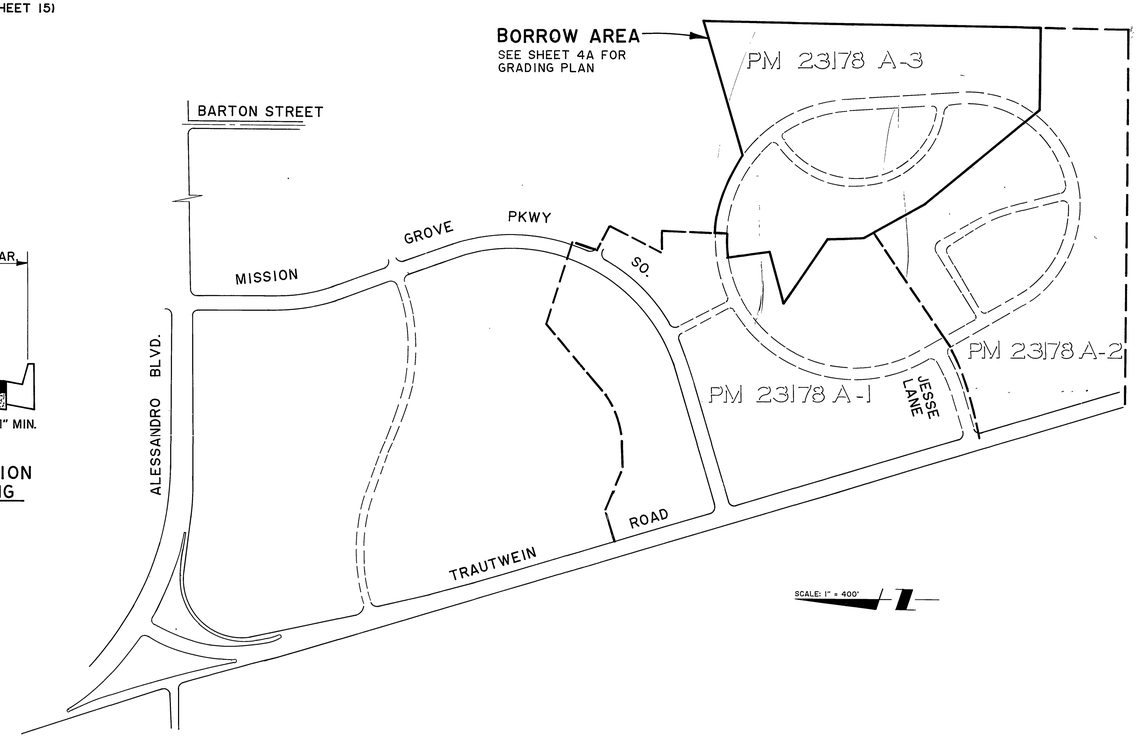
WESTBOUND

N/A

EASTBOUND

STA. 295+89.66 TO STA. 302+50.00 (CONSTRUCT AS SHOWN)
STA. 302+50.00 TO STA. 306+34.00 (OMIT CURB & PAVING AT MEDIAN)
STA. 306+34.00 TO STA. 326+75.80 (CONSTRUCT AS SHOWN)
STA. 326+75.80 TO STA. 327+43.40 (OMIT CURB & PAVING AT MEDIAN)

NOTE:
R-VALUE TESTS SHALL BE TAKEN AND STRUCTURAL PAVEMENT X-SECTIONS SHALL BE FINALIZED AFTER ROUGH GRADE HAS BEEN ACHIEVED. CONTRACTOR SHALL NOTIFY ENGINEER WHEN AREAS ARE READY FOR TESTING AND SHALL ALLOW 7 DAYS FOR FINALIZATION OF PAVEMENT DESIGN. EARTHWORK QUANTITIES FOR SUBGRADE PREP. SHALL BE ADJUSTED ACCORDING TO THE FINAL DESIGN.



NOTE:SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/7/97 RMA

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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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS NOTED
DATE: APRIL 1988
BENCH MARK: N/A

MARK	REVISIONS	APPR.	DATE
1	REVISED DIMENSION		

DESIGNED BY M.M. DRAWN BY C.M.M. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/13/89
PARK DEPARTMENT		12/13/89
TRAFFIC DIVISION		12-22-89
CHIEF P.W. ENGR.		12/12/89

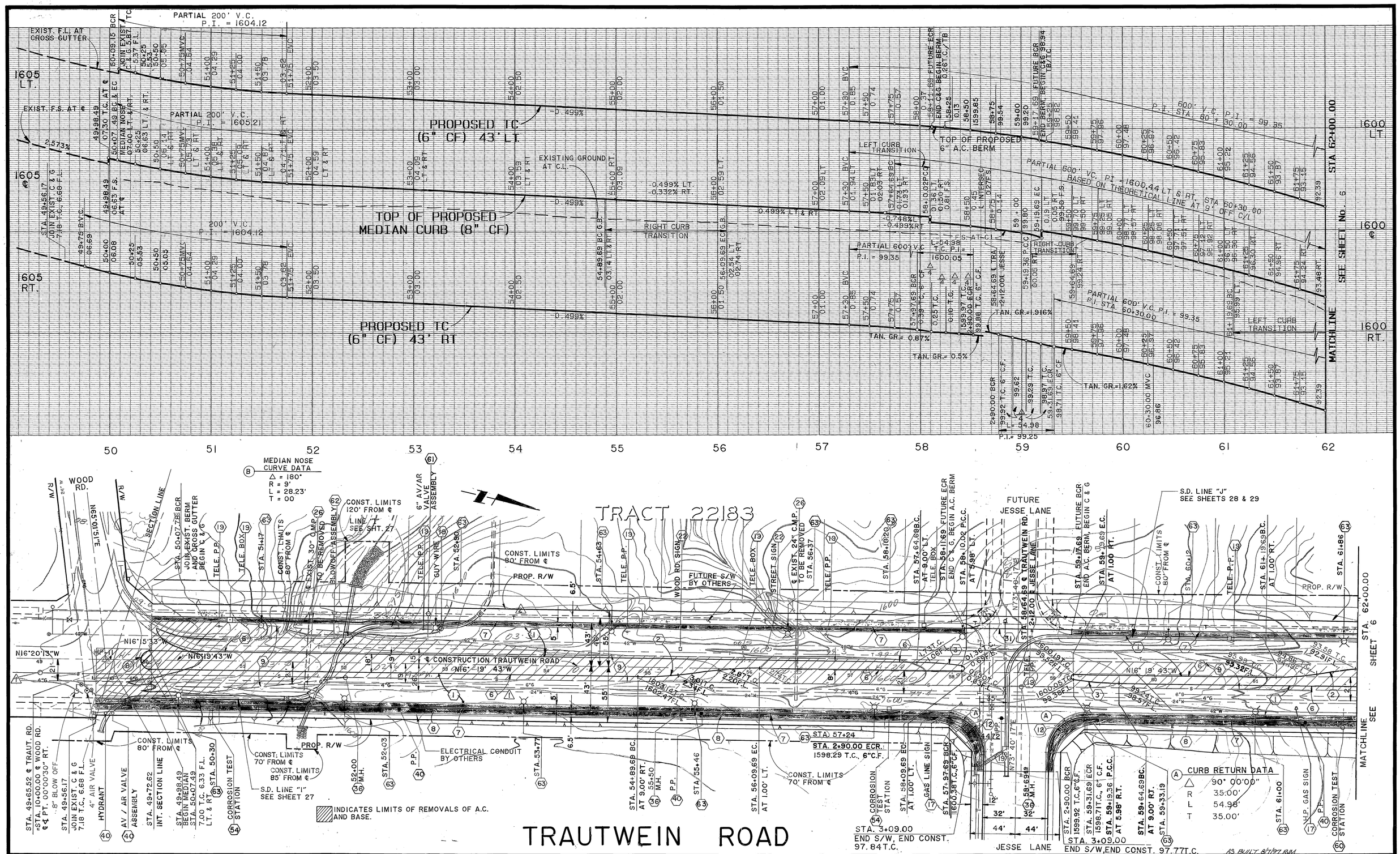
APPROVED BY: Barry Bell
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TYPICAL SECTIONS

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

PROJECT NO. R-3056
SHEET 4 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 FH



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PRIVATE ENGINEERING NOTE

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PROFESSIONAL ENGINEER JIMMY W. SIKO No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Siko

REGISTERED CIVIL ENGINEER NO. 35458

EXPIRATION DATE: 9/30/91 DATE: 10/10/89

RCE APPROVED BY:

SCALE: 1" = 40'

DATE: APRIL 1988

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082

73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK:

P.N. HAZ. 4 CITY TAG TOP OF LARGE ROCK TO SLY OF ALEGRE & OLD MT. JULIET OF VIA VISTA DR. NEAR P.P. NO. 775363-11 ELEV. = 892.255'

MARK	REVISIONS	APPR.	DATE
2	ADDED TELEPHONE LINE	MC	7/26/89
1	ADDED 4" GAS.	MC	4/20/89

DESIGNED BY M. M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12-12-89
CHIEF P. W. ENGR.		12-12-89

APPROVED BY Barry Beal, DIRECTOR OF PUBLIC WORKS

DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

STREET IMPROVEMENT PLANS

TRAUTWEIN ROAD

STA. 50+50.00 TO STA. 62+00.00

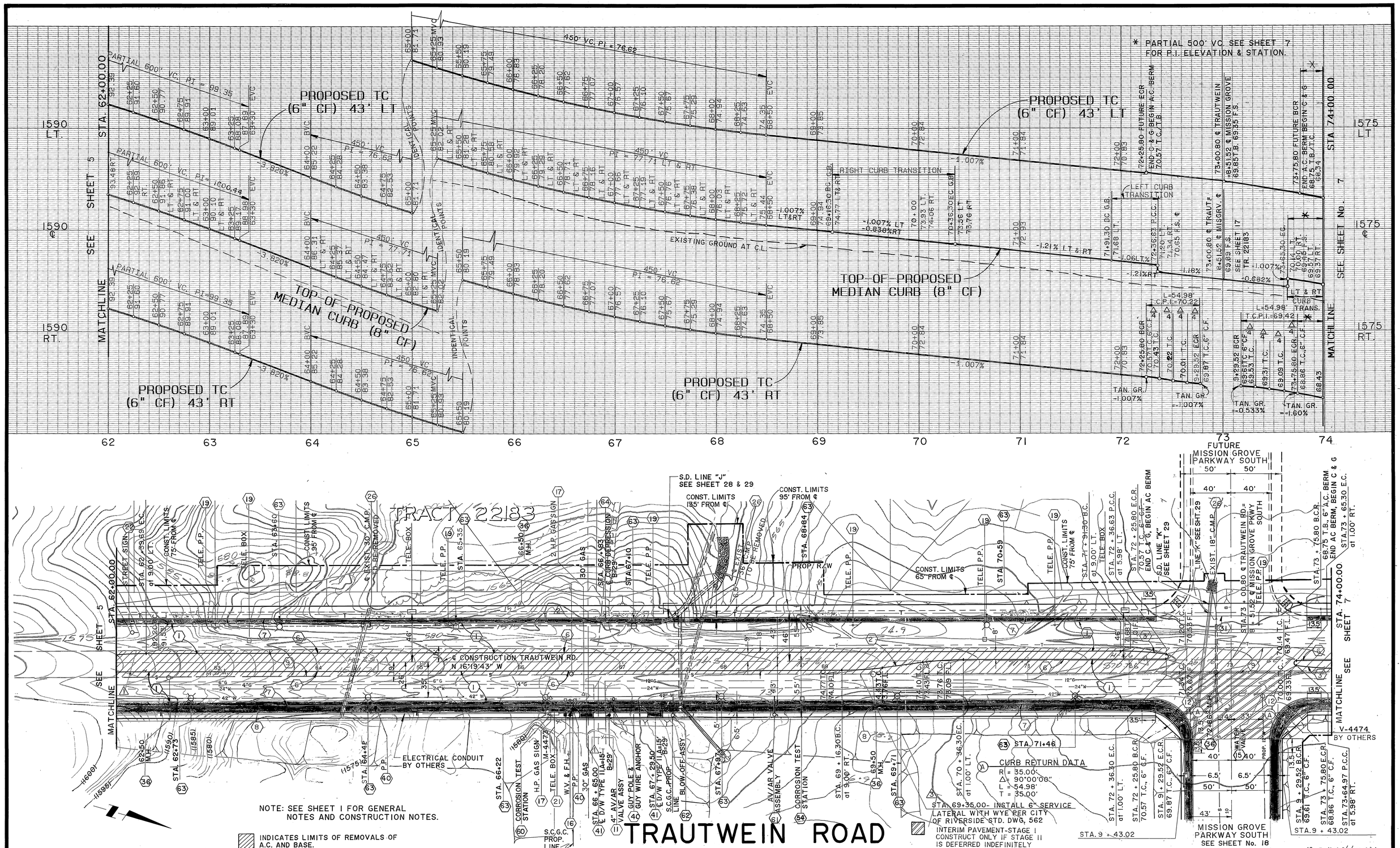
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056

SHEET 5 OF 88

FILE NO.: 8710164

INDEXED 7-24-90 GH



NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

INDICATES LIMITS OF REMOVALS OF A.C. AND BASE.

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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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR	DATE
3	ADDED SEWER LATERAL	MC	2/10/92
2	ADDED TELEPHONE LINE	MC	9/20/90
1	ADDED 4" GAS	MC	8/20/90

DESIGNED BY M.M. DRAWN BY R.H. CHECKED BY R.C.H.

DWG-12/14/89 RSE 12/12/89

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12-14-89
CHIEF P.W. ENGR.		12/15/89

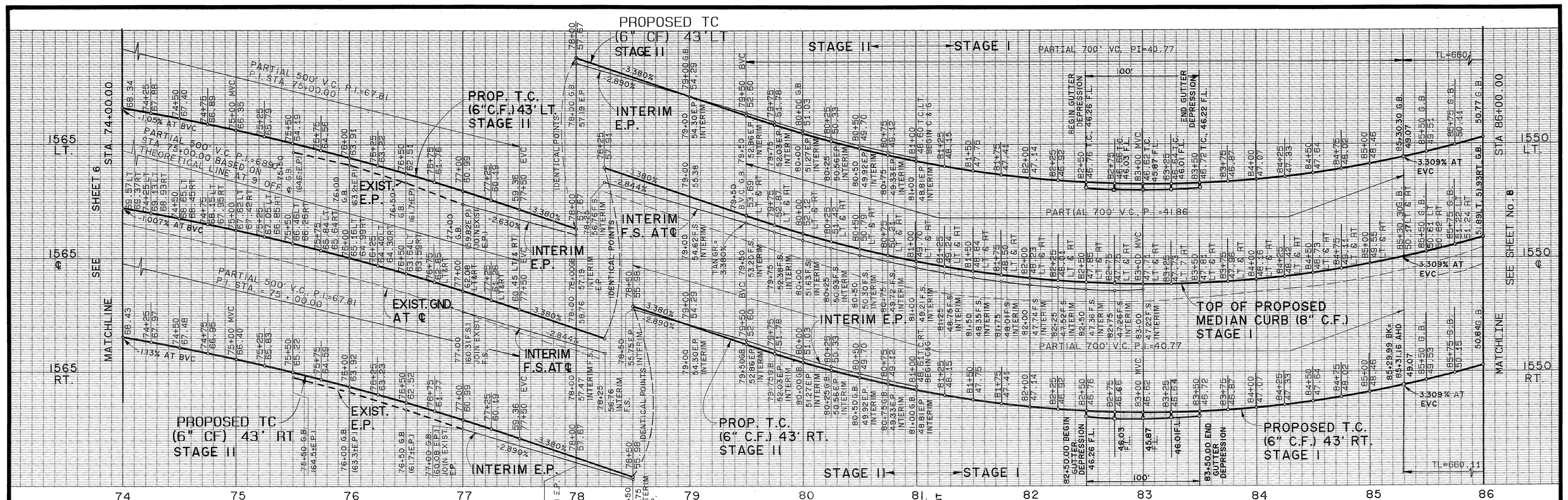
APPROVED BY Larry Beal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

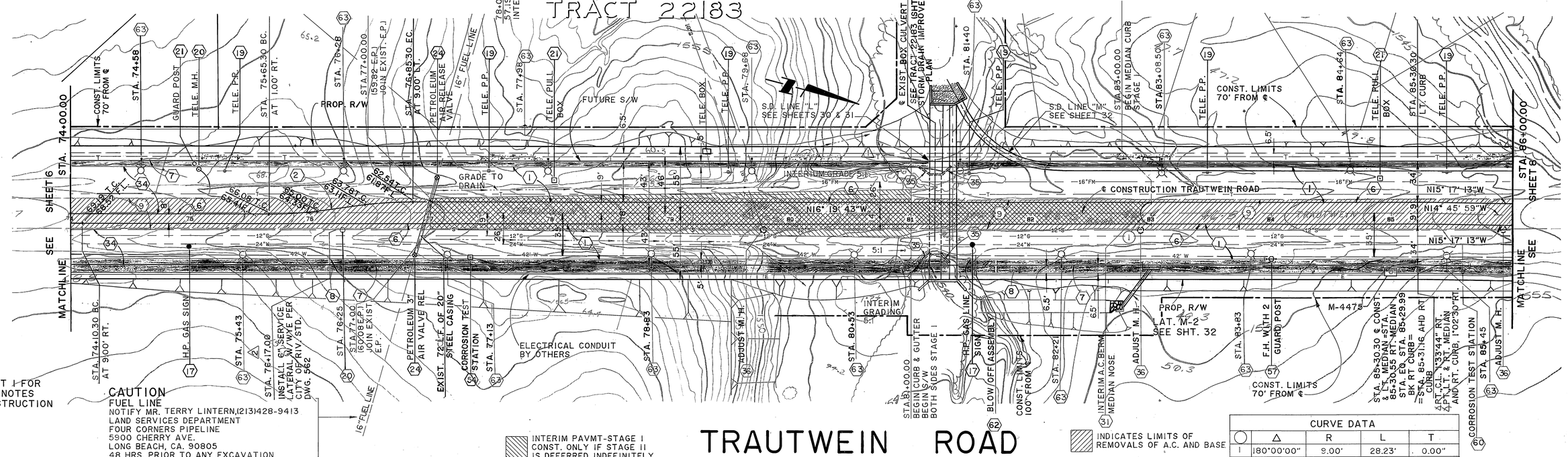
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 62+00.00 TO STA. 74+00.00

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

PROJECT NO. R-3056
SHEET 6 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 HI





NOTE:
SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

CAUTION
FUEL LINE
NOTIFY MR. TERRY LINTERN, (213)428-9413
LAND SERVICES DEPARTMENT
FOUR CORNERS PIPELINE
5900 CHERRY AVE.
LONG BEACH, CA. 90805
48 HRS. PRIOR TO ANY EXCAVATION

INTERIM PAVMT-STAGE I CONST. ONLY IF STAGE II IS DEFERRED INDEFINITELY

TRAUTWEIN ROAD

INDICATES LIMITS OF REMOVALS OF A.C. AND BASE

CURVE DATA				
	Δ	R	L	T
1	180°00'00"	9.00'	28.23'	0.00"

AS BUILT 8/1/87 RJM

Underground Service Alert
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1-800
422-4133

PRIVATE ENGINEERING NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE 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 JERRY W. SMITH No. 35458 CIVIL STATE OF CALIFORNIA 9/30/91

PREPARED UNDER THE DIRECTION OF: Jerry W. Smith
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

JFD
J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
2	ADDED SEWER LATERAL	MC	2/10/89
1	ADDED TELEPHONE LINE	MC	2/10/89

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

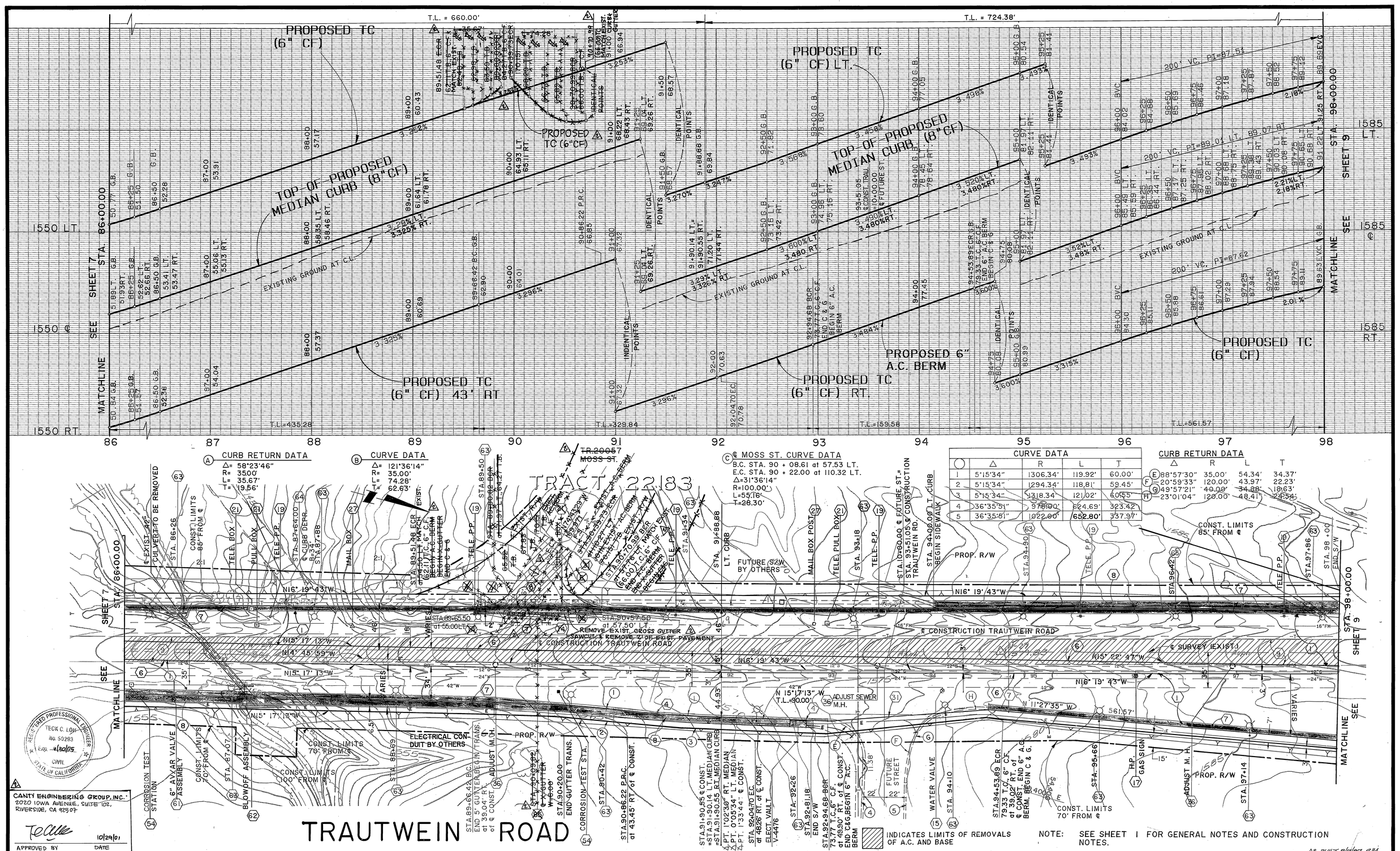
	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT	MB	12/14/89
TRAFFIC DIVISION		12/28/89
CHIEF P. W. ENGR.		12/28/89

APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 74+00.00 TO STA. 86+00.00
HORIZ. SCALE 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 7 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 JH



CURVE DATA				
	Δ	R	L	T
1	5°15'34"	1306.34'	119.92'	60.00'
2	5°15'34"	1294.34'	118.81'	59.45'
3	5°15'34"	1318.34'	121.02'	60.55'
4	36°35'51"	975.00'	624.69'	323.42'
5	36°35'51"	1022.00'	652.80'	337.97'

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/4/97 RM

CANTY ENGINEERING GROUP, INC.
2020 IOWA AVENUE, SUITE 102,
RIVERSIDE, CA 92507

APPROVED BY — DATE 10/29/01

REGISTERED PROFESSIONAL ENGINEER TECK C. LOW No. 50293 Exp. 6/30/05 CIVIL STATE OF CALIFORNIA

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422-4133

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 PROPERTIES, 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 JAMES W. BURNS 35458 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Burns
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE
2	REVISED C&G PER TR22823-1 - MOSS RD. CLOSURES		11/6/2001
1	ADDED TELEPHONE LINE		2/20/97

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/8/89
PARK DEPARTMENT		12/8/89
TRAFFIC DIVISION		12-12-89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY Barry Bal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 86+00.00 TO STA. 98+00.00

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

PROJECT NO. R-3056
SHEET 8 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 LH

CURVE DATA				
○	△	R	L	T
1	32°47'24'	905.40'	518.15'	266.39'
2	48°01'57"	871.40'	730.51'	388.27'
3	48°01'57"	868.40'	728.00'	386.93'
4	48°01'57"	865.40'	725.49'	385.59'
5	50°35'47'	831.40'	734.19'	392.97'
6	180°00'00"	3.00'	9.42'	——
7	86°41'54'	35.00'	52.96'	33.04'
8	89°17'36'	35.00'	54.55'	34.57'

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

TRAUTWEIN ROAD

AS BUILT 8/1/97 RMA

Underground Service Alert
CALL BEFORE YOU DIG
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422-4133

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 JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sun
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/12/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR	DATE
2	REVISED STATION	MW	5/3/91
1	ADDED TELEPHONE LINE.	MW	12/20/89

DESIGNED BY M.M. DRAWN BY F.P. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

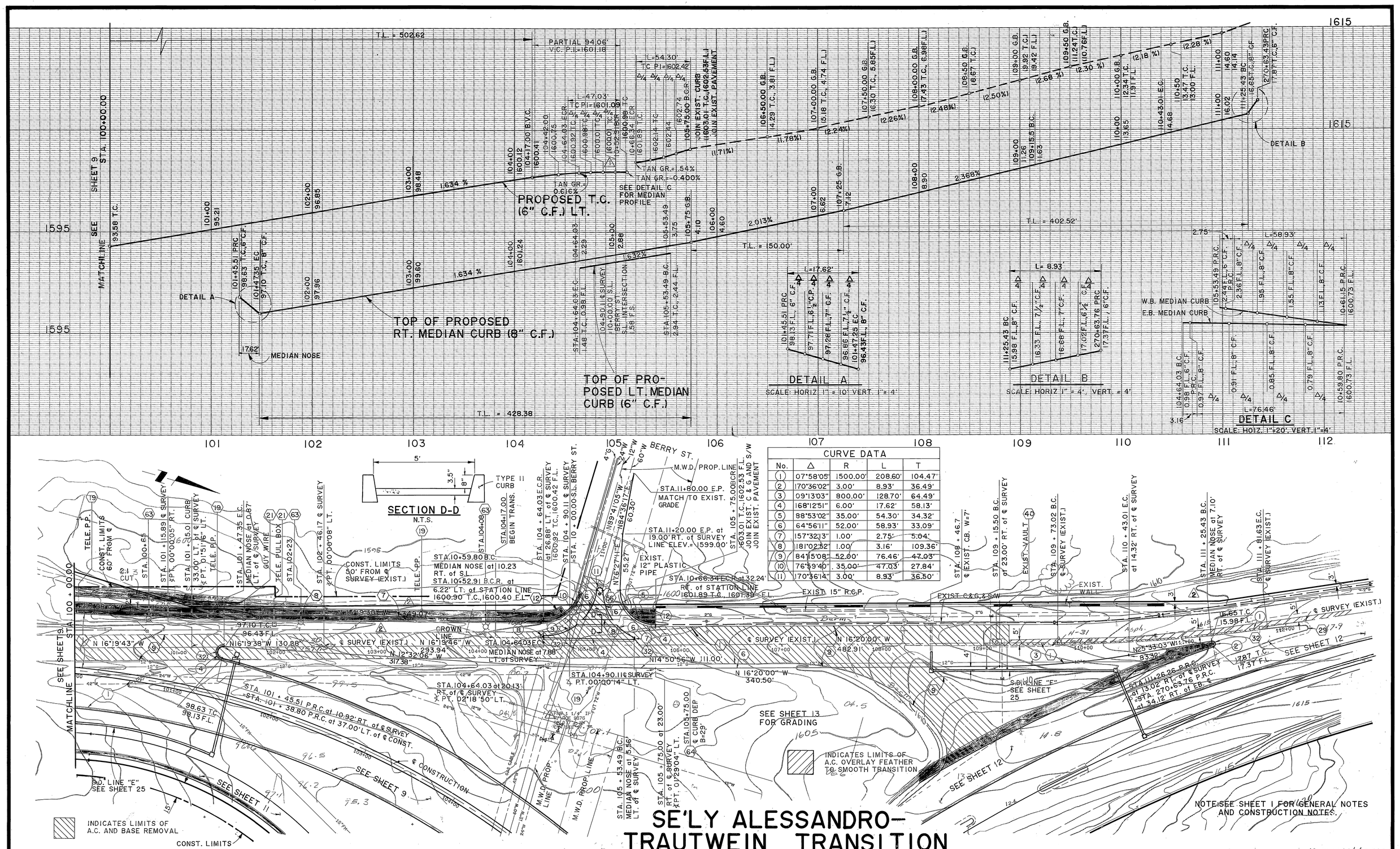
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/19/89
PARK DEPARTMENT		12/19/89
TRAFFIC DIVISION		12-20-89
CHIEF P. W. ENGR.		12/19/89

APPROVED BY: Burton Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 98+00.00 TO STA. 107+00.0
HORIZ. SCALE: 1" = 1" = 40' VERT. SCALE: 1" = 1" = 4'

PROJECT NO. R-3056
SHEET 9 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 GH



SE'LY ALESSANDRO–TRAUTWEIN TRANSITION

AS BUILT 8/1/97 BM

CURVE DATA				
No.	Δ	R	L	T
1	07°58'05'	1500.00'	208.60'	104.47'
2	170°36'02"	3.00'	8.93'	36.49'
3	09°13'03"	800.00'	128.70'	64.49'
4	168°12'51"	6.00'	17.62'	58.13'
5	88°53'02"	35.00'	54.30'	34.32'
6	64°56'11"	52.00'	58.93'	33.09'
7	157°32'13"	1.00'	2.75'	5.04'
8	181°02'52'	1.00'	3.16'	109.36'
9	84°15'08"	52.00'	76.46'	47.03'
10	76°59'40"	35.00'	47.03'	27.84'
11	170°36'14"	3.00'	8.93'	36.50'

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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 JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sun
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: JAN. 1989
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE
2	ADDED TELEPHONE LINE	MC	2/10/89
1	REVISED T.C. ELEV.	MC	2/10/89

DESIGNED BY M.M. DRAWN BY TC CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

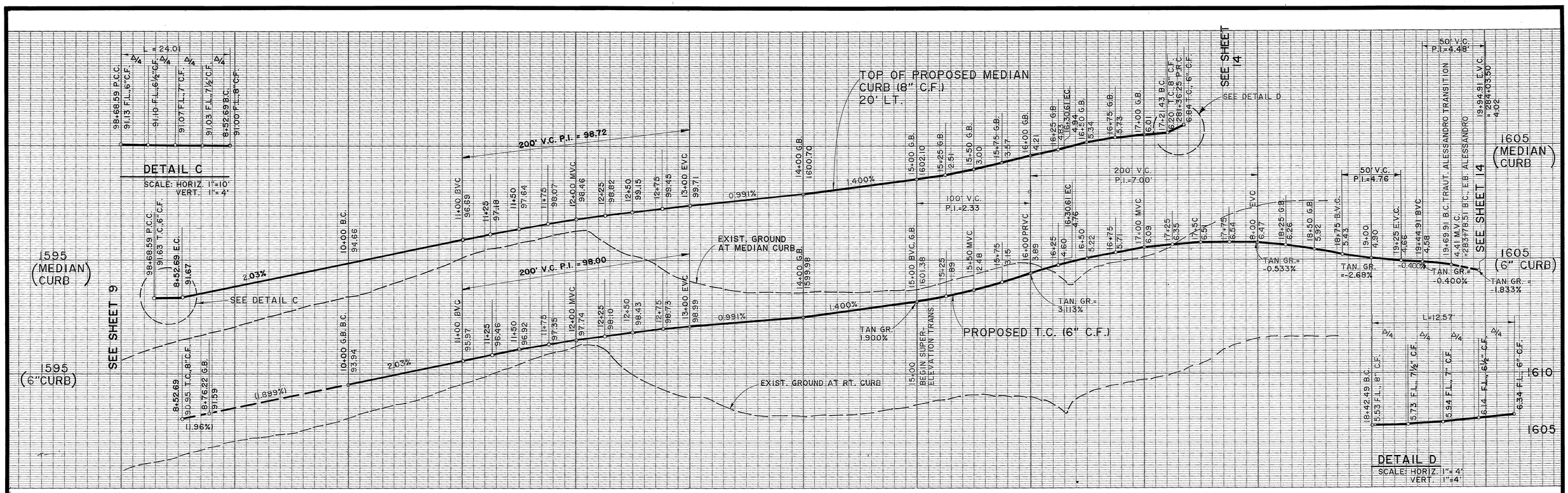
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12-15-89
TRAFFIC DIVISION		12-22-89
CHIEF P. W. ENGR.		12/15/89

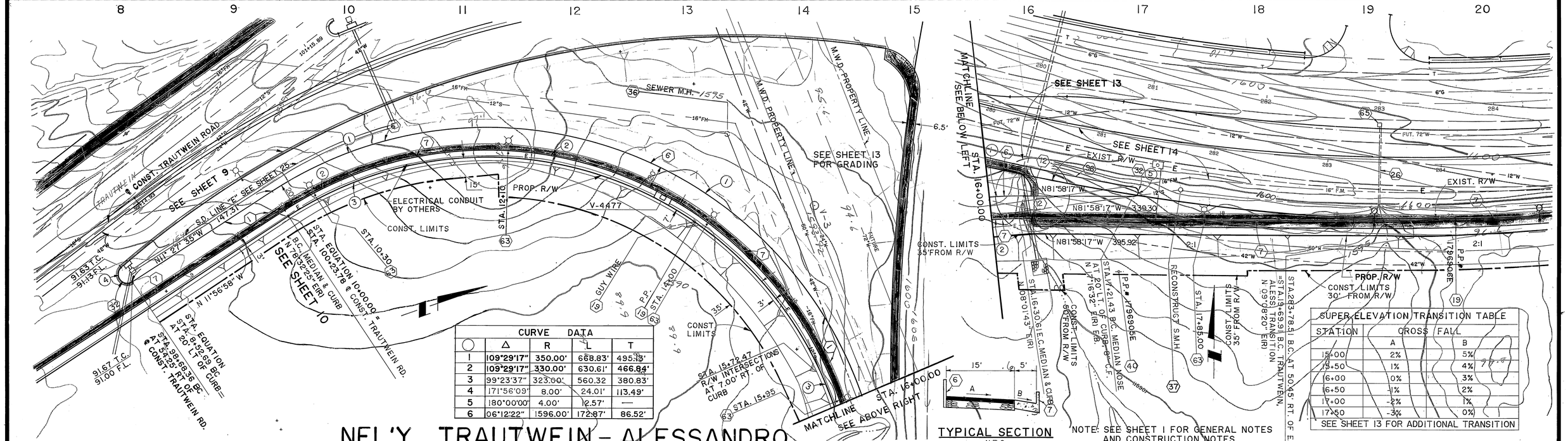
APPROVED BY: Barry Bed
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 100+00.00 TO STA. 111+81.63
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 10 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 JH





CURVE DATA				
○	Δ	R	L	T
1	109°29'17"	350.00'	668.83'	495.13'
2	109°29'17"	330.00'	630.61'	466.84'
3	99°23'37"	323.00'	560.32	380.83'
4	171°56'09"	8.00'	24.01'	113.49'
5	180°00'00"	4.00'	12.57'	—
6	06°12'22"	1596.00'	172.87'	86.52'

TYPICAL SECTION
N.T.S.
STA. 15+00 TO STA. 17+50

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

SUPER-ELEVATION TRANSITION TABLE		
STATION	CROSS FALL	
	A	B
15+00	2%	5%
15+50	1%	4%
16+00	0%	3%
16+50	-1%	2%
17+00	-2%	1%
17+50	-3%	0%
SEE SHEET 13 FOR ADDITIONAL TRANSITION		

ABBREVIATIONS: E.B.=EASTBOUND
W.B.=WESTBOUND

NEL'Y TRAUTWEIN - ALESSANDRO TRANSITION

AS BUILT 8/25/89 RJM

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PRIVATE ENGINEERING NOTE

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PROFESSIONAL ENGINEER JIMMY W. SON No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Son
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 450, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET NO. 1

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12-12-89
CHIEF P. W. ENGR.		12/12/89

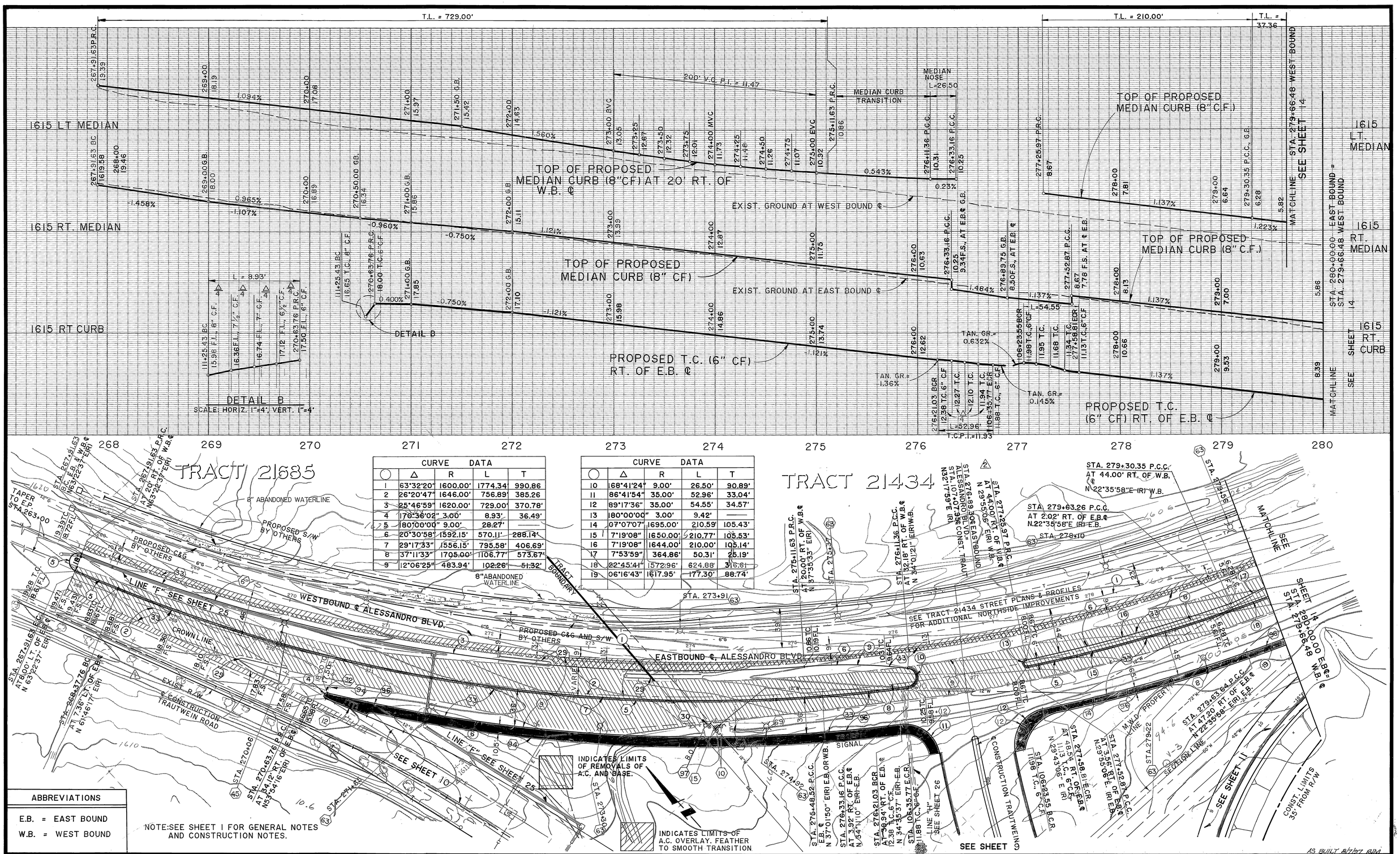
APPROVED BY Barry Bell
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
TRAUTWEIN ROAD
STA. 8 + 52.69 TO STA. 18 + 55.94
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 11 OF 88
FILE NO.: 8710164

WILL 12/12/89 RBC 12/12/89

INDEXED 7-24-90 JH



CURVE DATA				
○	Δ	R	L	T
1	63°32'20"	1600.00'	1774.34	990.86
2	26°20'47"	1646.00'	756.89	385.26
3	25°46'59"	1620.00'	729.00	370.78'
4	170°36'02"	3.00'	8.93'	36.49'
5	180°00'00"	9.00'	28.27'	—
6	20°30'58"	1592.15'	570.11'	288.14'
7	29°17'33"	1556.15'	795.58'	406.69'
8	37°11'33"	1705.00'	1106.77'	573.67'
9	12°06'25"	483.94'	102.26'	51.32'

CURVE DATA				
○	Δ	R	L	T
10	168°41'24"	9.00'	26.50'	90.89'
11	86°41'54"	35.00'	52.96'	33.04'
12	89°17'36"	35.00'	54.55'	34.57'
13	180°00'00"	3.00'	9.42'	—
14	07°07'07"	1695.00'	210.59'	105.43'
15	7°19'08"	1650.00'	210.77'	105.53'
16	7°19'08"	1644.00'	210.00'	105.14'
17	7°53'59"	364.86'	50.31'	25.19'
18	22°45'41"	1572.96'	624.88'	316.61'
19	06°16'43"	1617.95'	177.30'	88.74'

ABBREVIATIONS
E.B. = EAST BOUND
W.B. = WEST BOUND

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

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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.

PROFESSIONAL ENGINEER JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE
2	REVISED STATION		
1	ADDED TELEPHONE LINE		

DESIGNED BY: M.M. DRAWN BY: CB CHECKED BY: R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/1/89
PARK DEPARTMENT		12/1/89
TRAFFIC DIVISION		12/1/89
CHIEF P.W. ENGR.		12/1/89

APPROVED BY: Barry Bal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

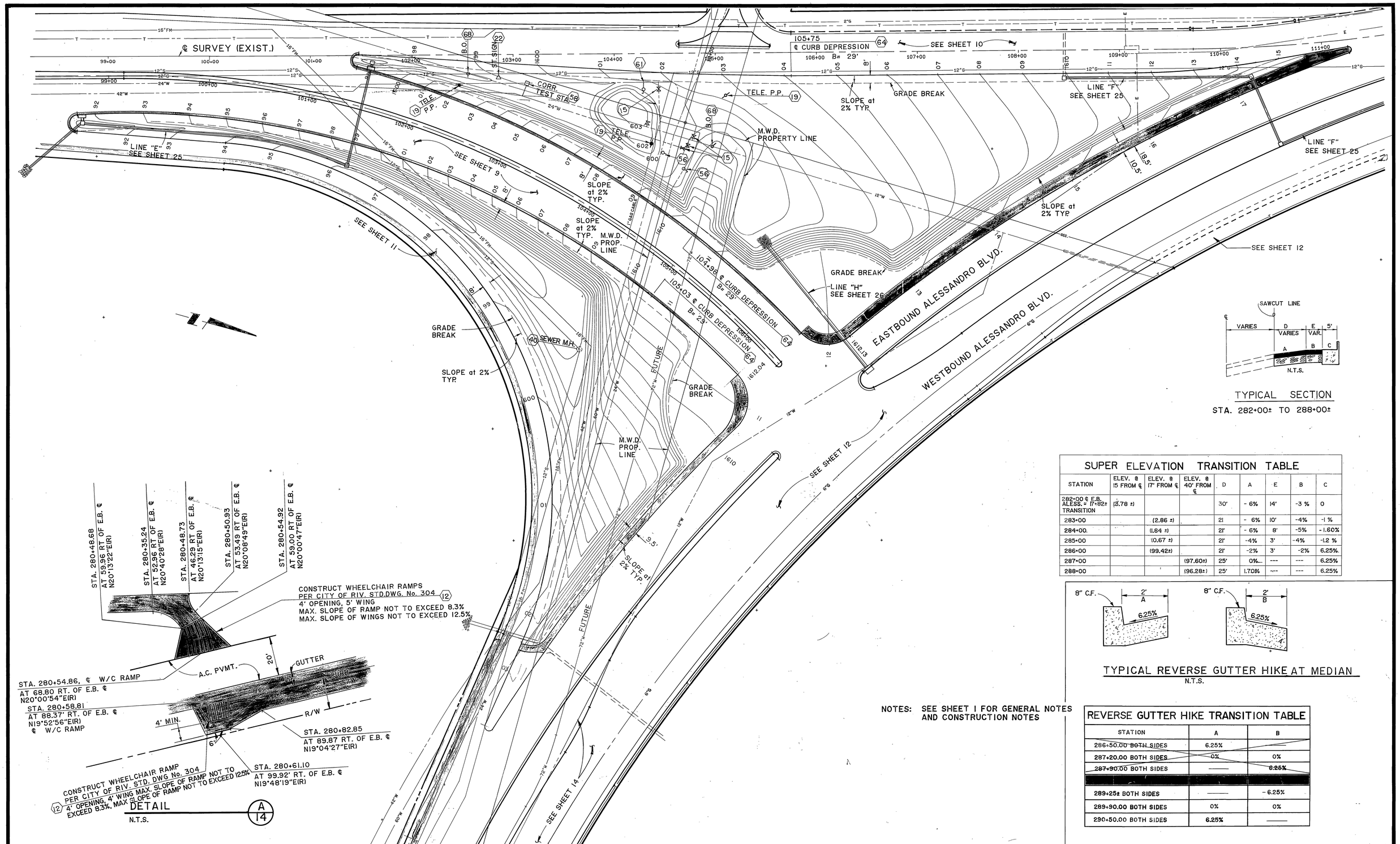
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
ALESSANDRO BLVD.
STA. 267 + 91.63 TO STA. 280 + 00.00

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

PROJECT NO. R-3056
SHEET 12 OF 88
FILE NO.: 8710164

WO# 14104 RCH 12/1/89

INDEXED 7-24-90



SUPER ELEVATION TRANSITION TABLE

STATION	ELEV. @ 15' FROM ℄	ELEV. @ 17' FROM ℄	ELEV. @ 40' FROM ℄	D	A	E	B	C
282+00 ℄ E.B. ALESS. = 17+82± TRANSITION	(3.78 ±)			30'	- 6%	14'	-3 %	0
283+00		(2.86 ±)		21	- 6%	10'	-4%	-1 %
284+00		(1.84 ±)		21'	- 6%	8'	-5%	- 1.60%
285+00		(0.67 ±)		21'	-4%	3'	-4%	-1.2 %
286+00		(99.42±)		21'	-2%	3'	-2%	6.25%
287+00			(97.60±)	25'	0%	---	---	6.25%
288+00			(96.28±)	25'	1.70%	---	---	6.25%

NOTES: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES

REVERSE GUTTER HIKE TRANSITION TABLE

STATION	A	B
~~286+50.00 BOTH SIDES~~	6.25%	—
287+20.00 BOTH SIDES	0%	0%
~~287+90.00 BOTH SIDES~~	—	~~6.25%~~
289+25± BOTH SIDES	—	- 6.25%
289+90.00 BOTH SIDES	0%	0%
290+50.00 BOTH SIDES	6.25%	—

AS BUILT 8/7/87 RJM

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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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1"=40'
DATE: FEB. 1989
BENCH MARK: SEE SHEET No.1

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY RH CHECKED BY R.C.H.

DRC 11/10/89 REC 12/18/89

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/18/89
PARK DEPARTMENT		12/18/89
TRAFFIC DIVISION		12-12-89
CHIEF P. W. ENGR.		12/13/89

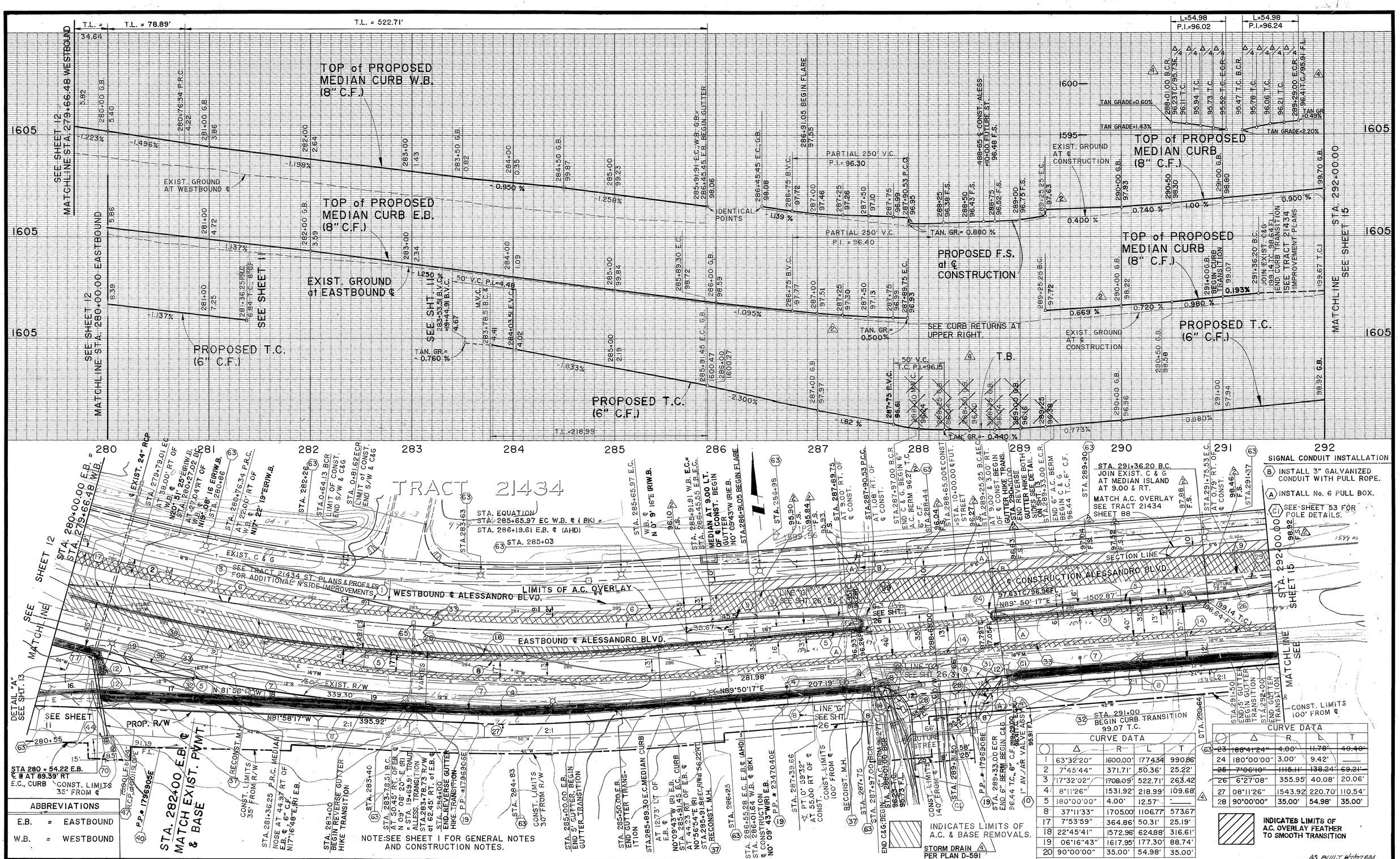
APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No.1
STREET IMPROVEMENT PLANS
MEDIAN ISLAND GRADING
TRAUTWEIN RD. / ALESSANDRO BLVD. INTERSECTION

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

PROJECT NO. R-3056
SHEET 13 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 JH



SIGNAL CONDUIT INSTALLATION

- (B) INSTALL 3" GALVANIZED CONDUIT WITH PULL ROPE.
- (A) INSTALL No. 6 PULL BOX.
- (C1) SEE-SHEET 53 FOR POLE DETAILS.

CURVE DATA				
	Δ	R	L	T
1	63°32'20"	1600.00'	1774.34	990.86
2	7°45'44"	371.71'	50.36'	25.22'
3	17°32'02"	1708.09'	522.71'	263.42
4	8°11'26"	1531.92'	218.99'	109.68
5	180°00'00"	4.00'	12.57'	—
8	37°11'33"	1705.00	1106.77	573.67
17	7°53'59"	364.86'	50.31'	25.19'
18	22°45'41"	1572.96'	624.88'	316.61'
19	06°16'43"	1617.95'	177.30'	88.74'
20	90°00'00"	35.00'	54.98'	35.00'

CURVE DATA				
	Δ	R	L	T
~~23~~	~~168°41'24"~~	~~4.00'~~	~~11.78'~~	~~40.40'~~
24	180°00'00"	3.00'	9.42'	—
~~25~~	~~7°06'10"~~	~~1115.11'~~	~~138.24'~~	~~69.21'~~
26	6°27'08"	355.95'	40.08'	20.06'
27	08°11'26"	1543.92	220.70'	110.54'
28	90°00'00"	35.00'	54.98'	35.00'

INDICATES LIMITS OF A.C. OVERLAY FEATHER TO SMOOTH TRANSITION

ABBREVIATIONS

E.B.	=	EASTBOUND
W.B.	=	WESTBOUND

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W Sun
REGISTERED CIVIL/ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
4	ADDED CURB RETURNS FOR DRIVE APPROACHES		8/21/91
3	REVISED DIMENSION		5/3/90
2	REVISED T.C. & F.S. ELEV.		2/22/90
1	ADDED G-3 S.D.		2/20/90

DESIGNED BY M.M. DRAWN BY CB; RH CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY: PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12/15/89
TRAFFIC DIVISION		12/15/89
CHIEF P.W. ENGR.		12/15/89

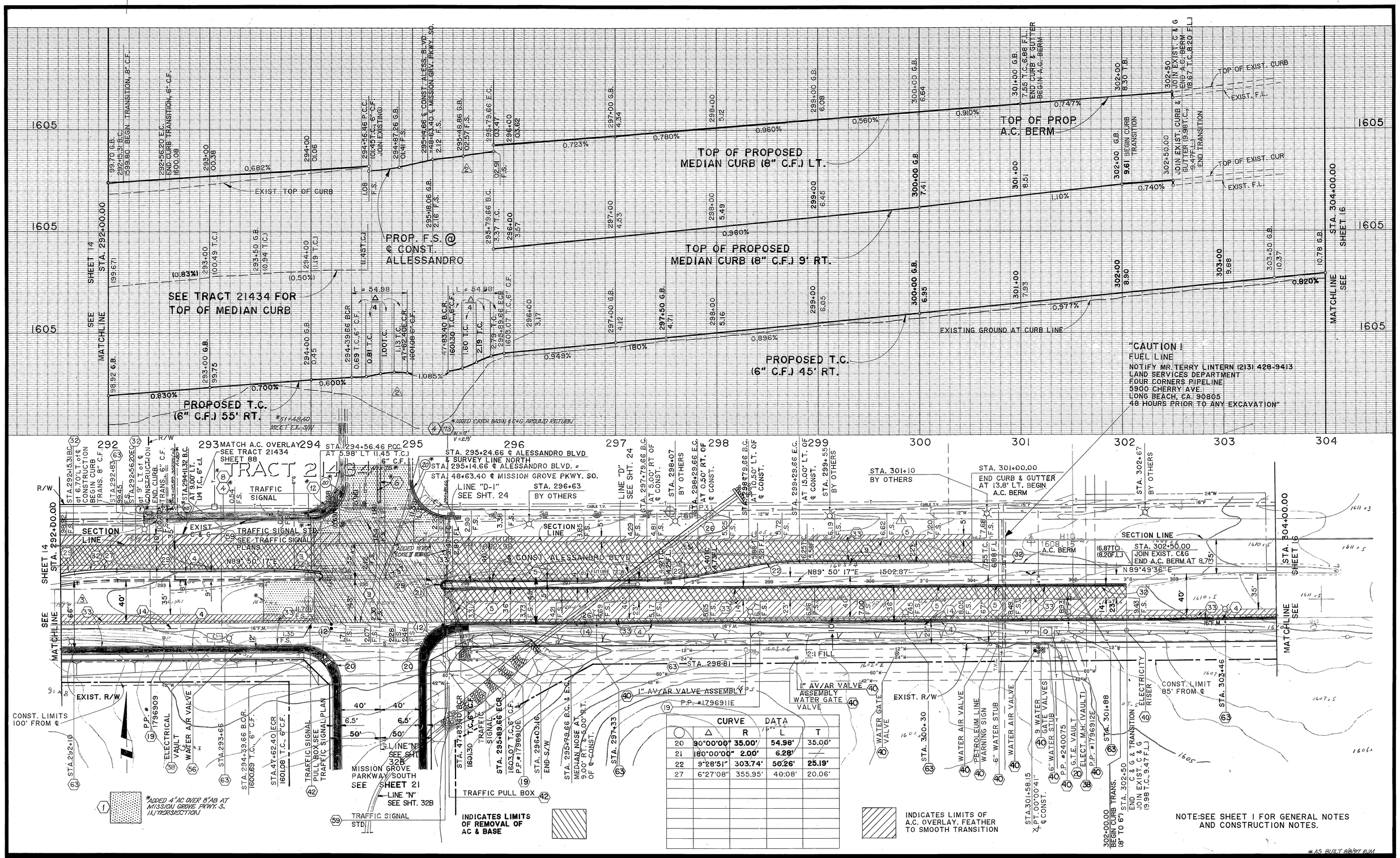
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
ALESSANDRO BLVD.
STA. 280 + 00.00 TO STA. 292 + 00.00
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 14 OF 88
FILE NO.: 8710164

AS BUILT 8/27/91 RM

INDEXED 7-24-90 GH



CURVE DATA				
	Δ	R	L	T
20	90°00'00"	35.00'	54.98'	35.00'
21	180°00'00"	2.00'	6.28'	—
22	9°28'51"	303.74'	50.26'	25.19'
27	6°27'08"	355.95'	40.08'	20.06'

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sun
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR	DATE
2	REVISED DIMENSION		5/3/90
1	REVISED T.C. ELEV.		2/10/90
0	REVISED F.S. ELEV.		2/20/90

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/8/89
PARK DEPARTMENT		12/8/89
TRAFFIC DIVISION		12-8-89
CHIEF P. W. ENGR.		12/8/89

APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

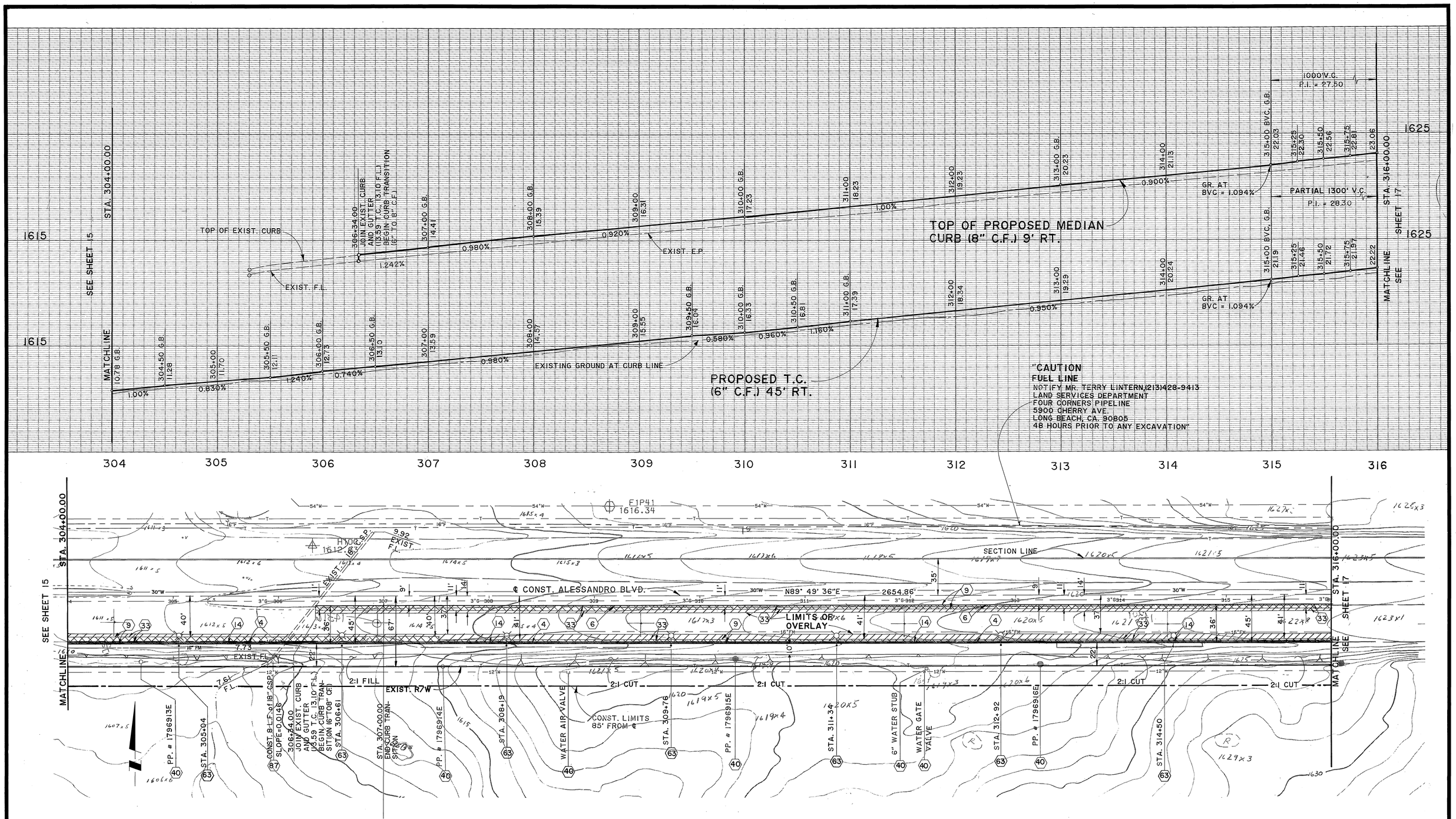
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
ALESSANDRO BLVD.
STA. 292 + 00.00 TO STA. 304 + 00.00

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

PROJECT NO. R-3056
SHEET 15 OF 88
FILE NO: 8710164

WOL 12/12/89 REE 12/12/89

INDEXED 7-24-90 4H



INDICATES LIMITS OF REMOVAL OF A.C. AND BASE

INDICATES LIMITS OF A.C. OVERLAY FEATHER TO SMOOTH TRANSITION

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/1/87 RJM

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sun
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988

BENCH MARK: SEE SHEET No. 1

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

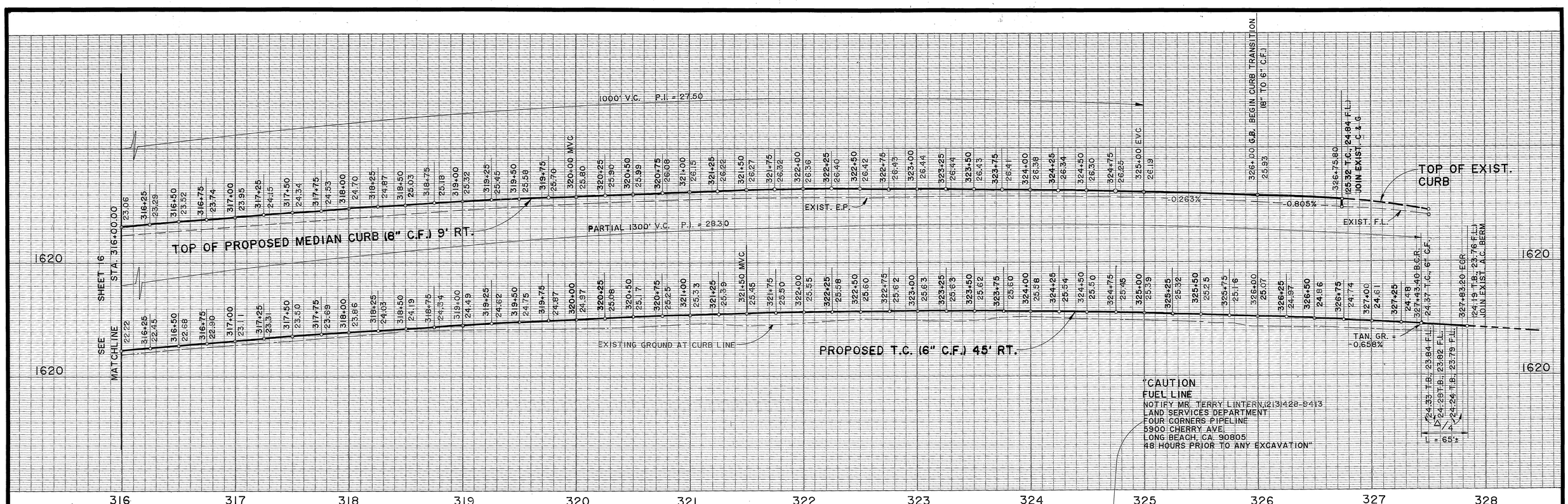
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		6/1/87
PARK DEPARTMENT		12/7/87
TRAFFIC DIVISION		12-12-89
CHIEF P.W. ENGR.		12/14/89

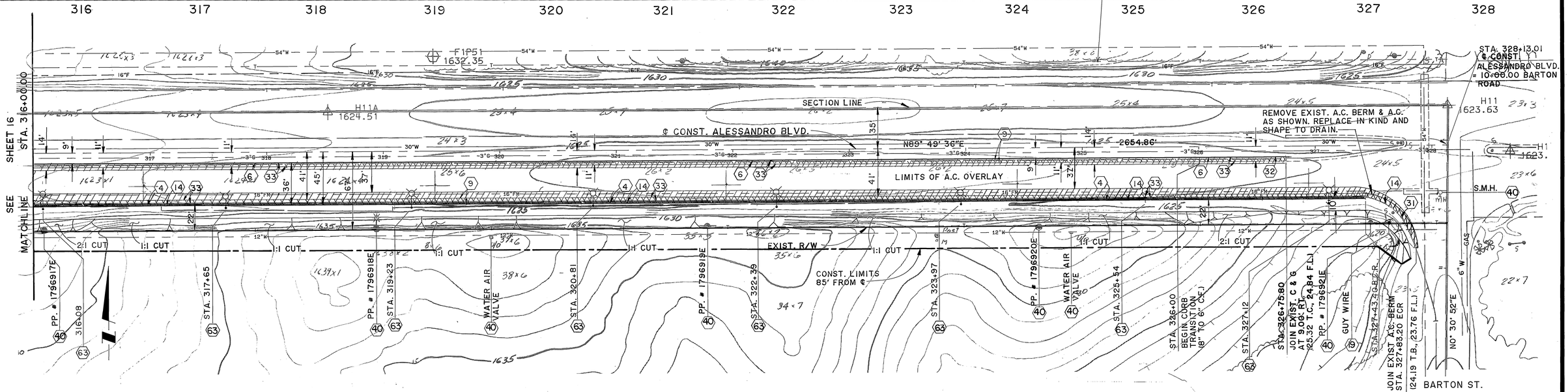
APPROVED BY: Barry Bell
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
ALESSANDRO BLVD.
STA. 304 + 00.00 TO STA. 316 + 00.00
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 16 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 GH





INDICATES LIMITS OF REMOVAL OF A.C. AND BASE.

INDICATES LIMITS OF A.C. OVERLAY. FEATHER TO SMOOTH TRANSITION.

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/1/97 RJM

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY C.B. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

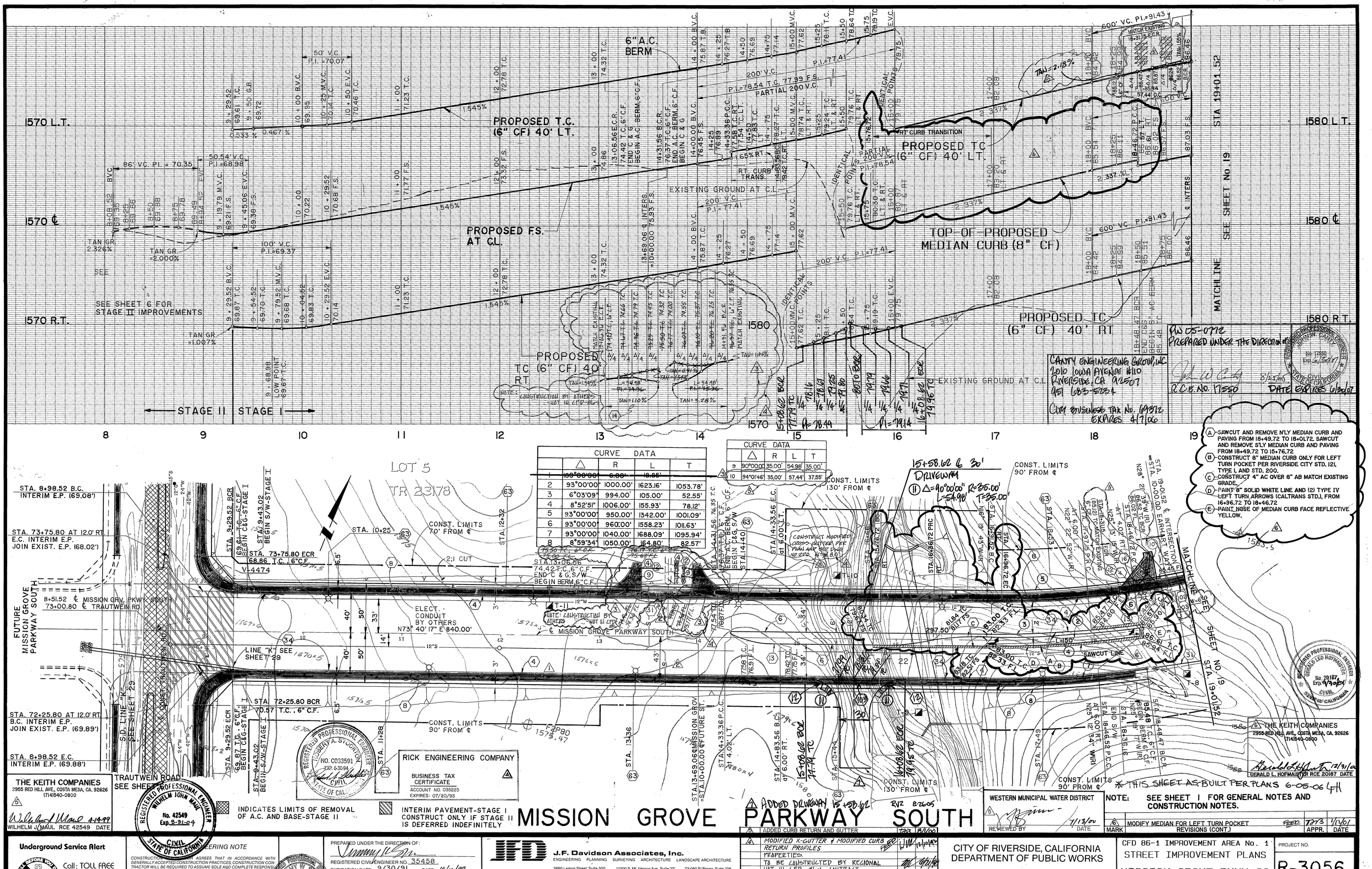
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
ALESSANDRO BLVD.
STA. 316 + 00.00 TO STA. 326 + 75.80
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 17 OF 88
FILE NO.: 8710164

WO 4-19-89 REV 10/12/89

INDEXED 7-24-90 HH



CURVE DATA				
	△	R	L	T
1	100°00'00"	6.00'	18.95'	
2	93°00'00"	1000.00'	1623.16'	1053.78'
3	6°03'09"	994.00'	105.00'	52.55'
4	8°52'51"	1006.00'	155.93'	78.12'
5	93°00'00"	950.00'	1342.00'	1001.09'
6	93°00'00"	960.00'	1558.23'	1011.63'
7	93°00'00"	1040.00'	1688.09'	1095.94'
8	8°59'34"	1050.00'	164.80'	82.57'

CURVE DATA				
	△	R	L	T
9	90°00'00"	35.00'	54.98'	35.00'
10	94°01'46"	35.00'	57.44'	37.55'

(A) SAWCUT AND REMOVE N'LY MEDIAN CURB AND PAVING FROM 18+49.72 TO 18+01.72. SAWCUT AND REMOVE S'LY MEDIAN CURB AND PAVING FROM 18+49.72 TO 15+76.72
(B) CONSTRUCT 8" MEDIAN CURB ONLY FOR LEFT TURN POCKET PER RIVERSIDE CITY STD. 121, TYPE I, AND STD. 200.
(C) CONSTRUCT 4" AC OVER 8" AB MATCH EXISTING GRADE.
(D) PAINT 8" SOLID WHITE LINE AND (2) TYPE IV LEFT TURN ARROWS (CALTRANS STD.), FROM 16+96.72 TO 18+46.72
(E) PAINT NOSE OF MEDIAN CURB FACE REFLECTIVE YELLOW.

RW 05-0772
PREPARED UNDER THE DIRECTION OF
CANTY ENGINEERING GROUP, INC.
2010 IOWA AVENUE #110
RIVERSIDE, CA 92507
(951) 683-5134
CITY BUSINESS TAX NO. 69312
EXPIRES 4/7/06
R.C.E. NO. 17550 DATE EXPIRES 6/30/07

THE KEITH COMPANIES
2955 RED HILL AVE., COSTA MESA, CA. 92626
(714)540-0800
WILHELM J. MAUL RCE 42549 DATE

RICK ENGINEERING COMPANY
BUSINESS TAX CERTIFICATE
ACCOUNT NO. 035225
EXPIRES: 07/20/93

THE KEITH COMPANIES
2955 RED HILL AVE., COSTA MESA, CA 92626
(714)540-0800
GERALD L. HOFMAISTER RCE 20187 DATE

WESTERN MUNICIPAL WATER DISTRICT
REVIEWED BY DATE

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

MARK	REVISIONS	APPR.	DATE
6	MODIFY MEDIAN FOR LEFT TURN POCKET REVISIONS (CONT.)	TJB	4/1/01
5	ADDED DRIVEWAY 15+58.62	RVZ	8-26-05
4	ADDED CURB RETURN AND GUTTER	TJB	8/1/00
3	MODIFIED X-GUTTER & MODIFIED CURB RETURN PROFILES PROPERTIES. TO BE CONSTRUCTED BY REGIONAL WQI IN L.F.D. 84-1 CONTRACT		4/21/92
2	ADDED CURB RETURNS AND CROSS GUTTER		5/13/90
1	ADDED SEWER LATERAL		2/10/90
	ADDED TELEPHONE LINE		

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

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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.

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1"=40'
DATE: APR. 1988
BENCH MARK: SEE SHEET 1

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/14/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/14/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
MISSION GROVE PKWY SO
STA. 9+29.52 TO STA. 19+01.52

PROJECT NO. R-3056
SHEET 18 OF 88
HORIZ. SCALE =40' VERT. SCALE =4'
FILE NO.: 8710164

INDEXED 7-24-90

CURVE DATA				
No.	Δ	R	L	T
1	180°00'00"	6.00'	18.85'	——
2	93° 00' 00"	1000.00'	1623.16'	1053.78'
5	93° 00' 00"	950.00'	1542.00'	1001.09'
6	93° 00' 00"	960.00'	1558.23'	1011.63'
7	93° 00' 00"	1040.00'	1688.09'	1095.94'
9	09° 35' 50"	994.00'	166.50'	83.45'
10	12° 25' 59"	1006.00'	218.30'	109.58'
11	28° 22' 13"	994.00'	492.19'	251.25'
12	28° 22' 13"	1006.00'	498.13'	254.28'
13	92°02'40"	35.00'	56.23'	36.27'
14	88°16'03"	35.00'	53.92'	33.96'
15	93°43'09"	35.00'	57.25'	37.35'

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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 JIMMY W. SIN No. 35458 Exp. 9/30/91 Civil STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/12/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, - FAX 619-340-0529

BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE
4	ADDED CURB RETURNS AND CROSS GUTTER	TJ/LS	3/1/00
3	ADD SYDNEY HARBOUR & REVISE MEDIAN	DW	8/16/95
2	ADDED SEWER LATERAL	MC	5/3/90
1	ADDED TELEPHONE LINE.	MC	2/20/90

DESIGNED BY M.M. DRAWN BY TC CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12/15/89
TRAFFIC DIVISION		12/15/89
CHIEF P. W. ENGR.		12/15/89

APPROVED BY: Barry Bird
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

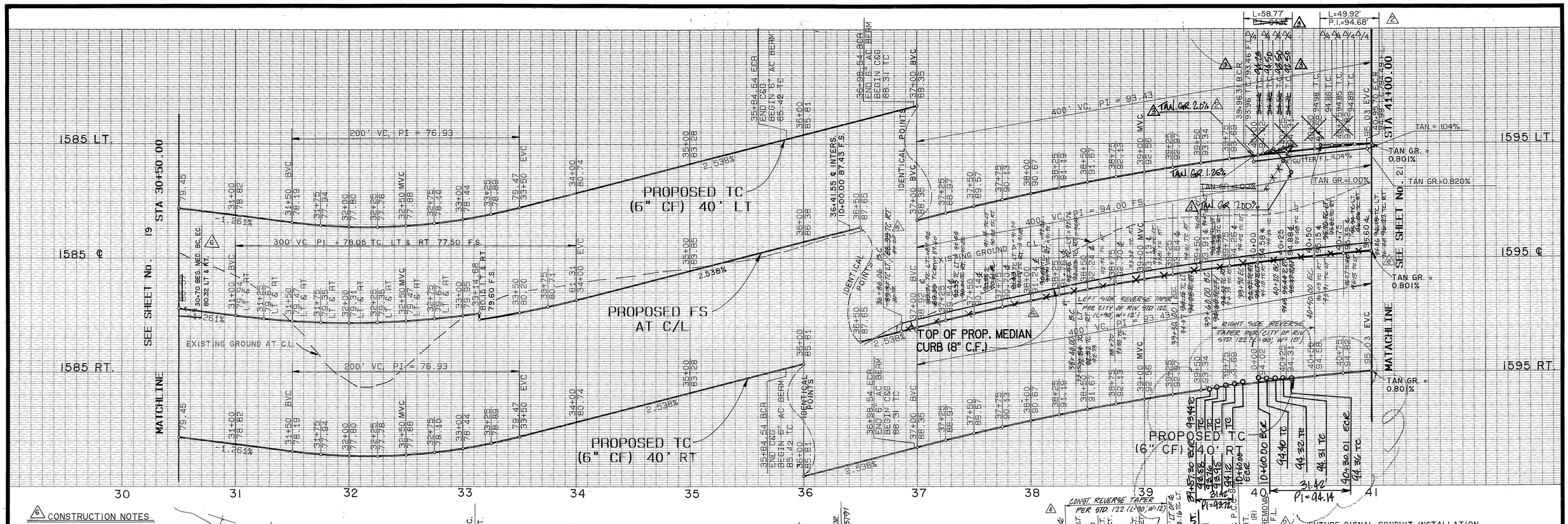
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
MISSION GROVE PKWY SO.
STA. 19+01.52 TO STA. 30+50.00

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

PROJECT NO. R-3056
SHEET 19 OF 88
FILE NO.: 8710164

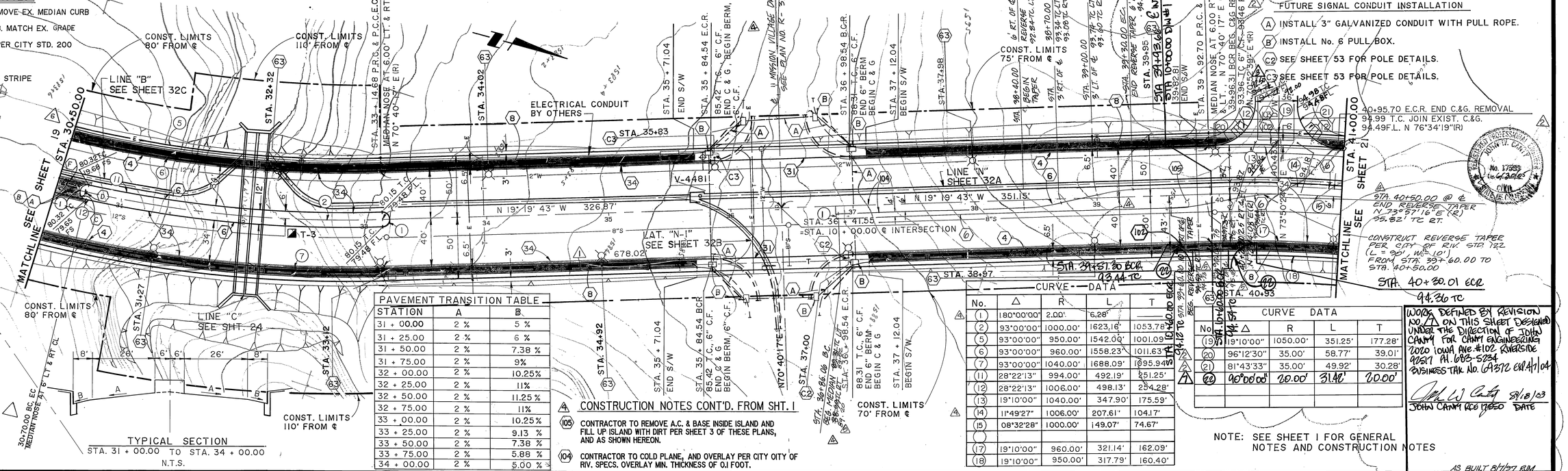
WR 12/19/89 RSR 12/12/89

INDEXED 7-24-90 JH



6 CONSTRUCTION NOTES

- (A) SAWCUT EX. PAVING & REMOVE EX. MEDIAN CURB
- (B) CONST. 4" AC OVER 8" A.B. MATCH EX. GRADE
- (C) CONST. 8" CURB (TYPE II) PER CITY STD. 200
- (D) RELOCATE EX. R17A SIGN
- (F) PAINT 11" DOUBLE YELLOW STRIPE



TYPICAL SECTION
STA. 31 + 00.00 TO STA. 34 + 00.00
N.T.S.

PAVEMENT TRANSITION TABLE		
STATION	A	B
31 + 00.00	2 %	5 %
31 + 25.00	2 %	6 %
31 + 50.00	2 %	7.38 %
31 + 75.00	2 %	9%
32 + 00.00	2 %	10.25%
32 + 25.00	2 %	11%
32 + 50.00	2 %	11.25 %
32 + 75.00	2 %	11%
33 + 00.00	2 %	10.25%
33 + 25.00	2 %	9.13 %
33 + 50.00	2 %	7.38 %
33 + 75.00	2 %	5.88 %
34 + 00.00	2 %	5.00 %

4 CONSTRUCTION NOTES CONT'D. FROM SHT. 1

(105) CONTRACTOR TO REMOVE A.C. & BASE INSIDE ISLAND AND FILL UP ISLAND WITH DIRT PER SHEET 3 OF THESE PLANS, AND AS SHOWN HEREON.

(104) CONTRACTOR TO COLD PLANE, AND OVERLAY PER CITY OITY OF RIV. SPECS. OVERLAY MIN. THICKNESS OF 0.1 FOOT.

CURVE DATA				
No.	Δ	R	L	T
1	180°00'00"	2.00'	6.28'	
2	93°00'00"	1000.00'	1623.16'	1053.78'
5	93°00'00"	950.00'	1542.00'	1001.09'
6	93°00'00"	960.00'	1558.23'	1011.63'
7	93°00'00"	1040.00'	1688.09'	1095.94'
11	28°22'13"	994.00'	492.19'	251.25'
12	28°22'13"	1006.00'	498.13'	254.28'
13	19°10'00"	1040.00'	347.90'	175.59'
14	11°49'27"	1006.00'	207.61'	104.17'
15	08°32'28"	1000.00'	149.07'	74.67'
17	19°10'00"	960.00'	321.14'	162.09'
18	19°10'00"	950.00'	317.79'	160.40'

CURVE DATA				
No	Δ	R	L	T
19	19°10'00"	1050.00'	351.25'	177.28'
20	96°12'30"	35.00'	58.77'	39.01'
21	81°43'33"	35.00'	49.92'	30.28'
22	90°00'00"	20.00'	31.42'	20.00'

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES

WORK DEFINED BY REVISION NO. 7 ON THIS SHEET DESIGNED UNDER THE DIRECTION OF JOHN CANNY FOR CANNY ENGINEERING 2020 IOWA AVE. #102 RIVERSIDE 92507 PH. 683-5734 BUSINESS LIC. NO. 69372 EXP. 4/1/04

JOHN CANNY RCE 17893 — 8/18/03 DATE

AS BUILT 8/17/07 RJM

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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.

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPD.	DATE
7	ADD DRIVEWAY FOR PLAZA 7/21/03 BIZ B2103		
6	REVISE MEDIAN	JLC	7/6/95
5	REVISE MEDIAN TC GRADE PER "AS BUILT"	JLC	6/10/92
4	ADD MEDIAN CURB - REVISE PLAN & PROFILE	JLC	9/13/91
3	REVISED SOUTHERN CURB RETURN	JLC	7/24/91
2	ADDED CURB RETURNS FOR DRIVE APPROACH	JLC	2/4/91
1	ADDED TELEPHONE LINE.	JLC	12/12/89

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12/15/89
TRAFFIC DIVISION		12-22-89
CHIEF P.W. ENGR.		12/22/89

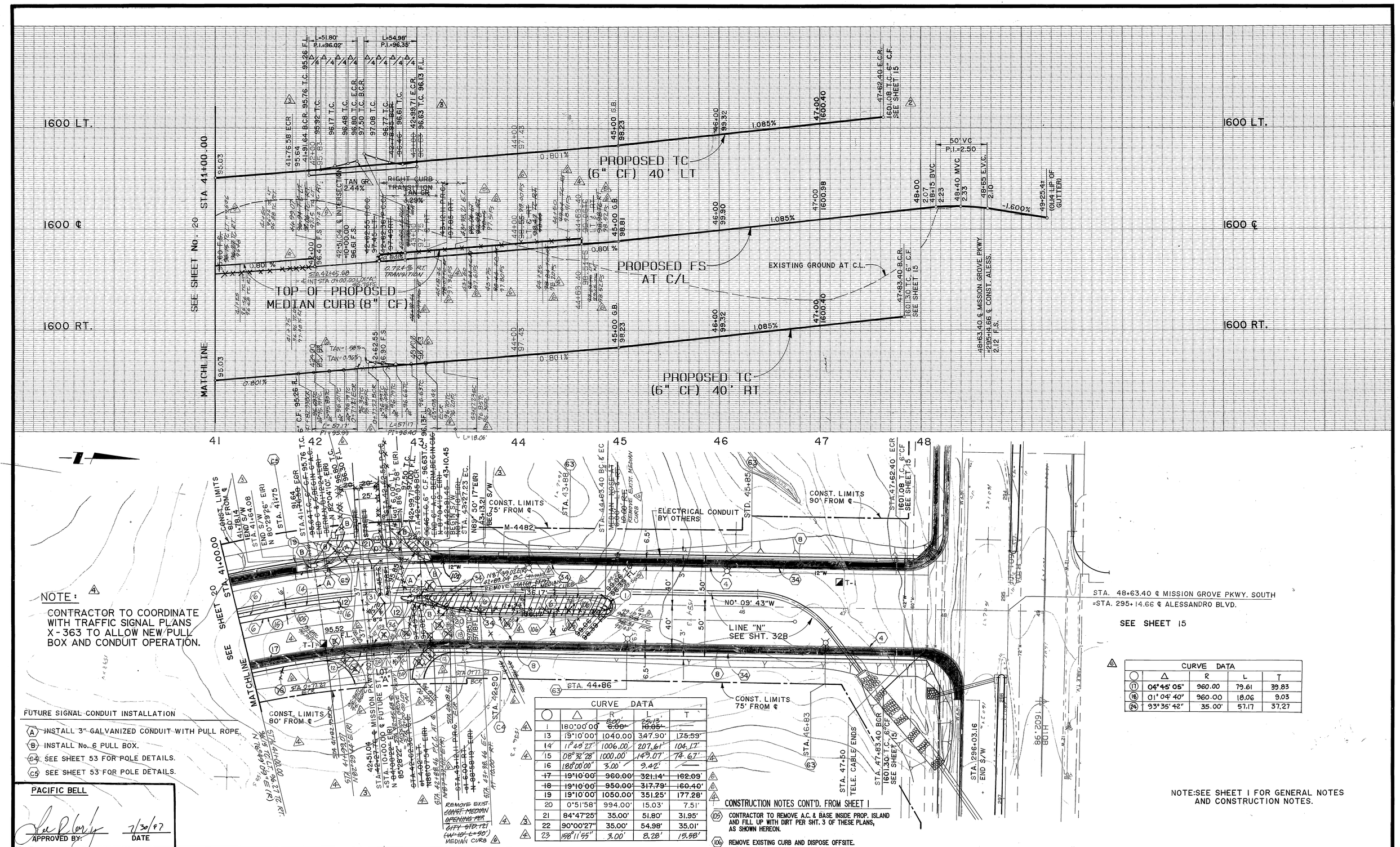
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
MISSION GROVE PKWY SO
STA. 30+50.00 TO STA. 41+00.00
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 20 OF 88
FILE NO.: 8710164

WO 22-19/89 RCE 12/12/89

INDEXED 7-27-89



NOTE:

CONTRACTOR TO COORDINATE WITH TRAFFIC SIGNAL PLANS X-363 TO ALLOW NEW PULL BOX AND CONDUIT OPERATION.

CURVE DATA				
○	Δ	R	L	T
1	180°00'00"	~~8.00'~~	~~25.13~~	~~10.85'~~
13	19°10'00"	1040.00	347.90'	175.59'
14	11°48'27"	1006.00'	207.61'	104.17'
15	08°32'28"	1000.00'	149.07'	74.67'
16	180°00'00"	3.00'	9.42'	—
~~17~~	~~19°10'00"~~	~~960.00'~~	~~321.14'~~	~~162.09'~~
~~18~~	~~19°10'00"~~	~~950.00'~~	~~317.79'~~	~~160.40'~~
19	19°10'00"	1050.00'	351.25'	177.28'
20	0°51'58"	994.00'	15.03'	7.51'
21	84°47'25"	35.00'	51.80'	31.95'
22	90°00'27"	35.00'	54.98'	35.01'
23	158°11'55"	3.00'	8.28'	15.58'

CURVE DATA			
Δ	R	L	T
04°45'05"	960.00	79.61	39.83
01°04'40"	960.00	18.06	9.03
93°35'42"	35.00'	57.17	37.27

CONSTRUCTION NOTES CONT'D. FROM SHEET 1

(105) CONTRACTOR TO REMOVE A.C. & BASE INSIDE PROP. ISLAND AND FILL UP WITH DIRT PER SHT. 3 OF THESE PLANS, AS SHOWN HEREON.

(106) REMOVE EXISTING CURB AND DISPOSE OFFSITE.

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

PACIFIC BELL

APPROVED BY: _____ DATE 7/30/87

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER — JIMMY W. SIMS — No. 35458 — Exp. 9/30/91 — Civil — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1988
BENCH MARK: SEE SHEET No. 1

MARK	REVISIONS	APPR.	DATE
4	REMOVE MEDIAN TC & ADD DRIVEWAY-TM28496		8/11/97
3	REVISE MEDIAN TO GRADE PER AS BUILT		6/11/92
4	ADD MEDIAN CURB-REVISE PLAN & PROFILE		9/3/91
2	ADDED CURB RETURNS FOR DRIVE APPROACH		4/2/91
2	REVISED ELEVATION		5/3/90
1	ADDED TELEPHONE LINE		9/20/89

DESIGNED BY M.M. DRAWN BY CB CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		12/5/89
PARK DEPARTMENT		12/5/89
TRAFFIC DIVISION		12/5/89
CHIEF P.W. ENGR.		12/5/89

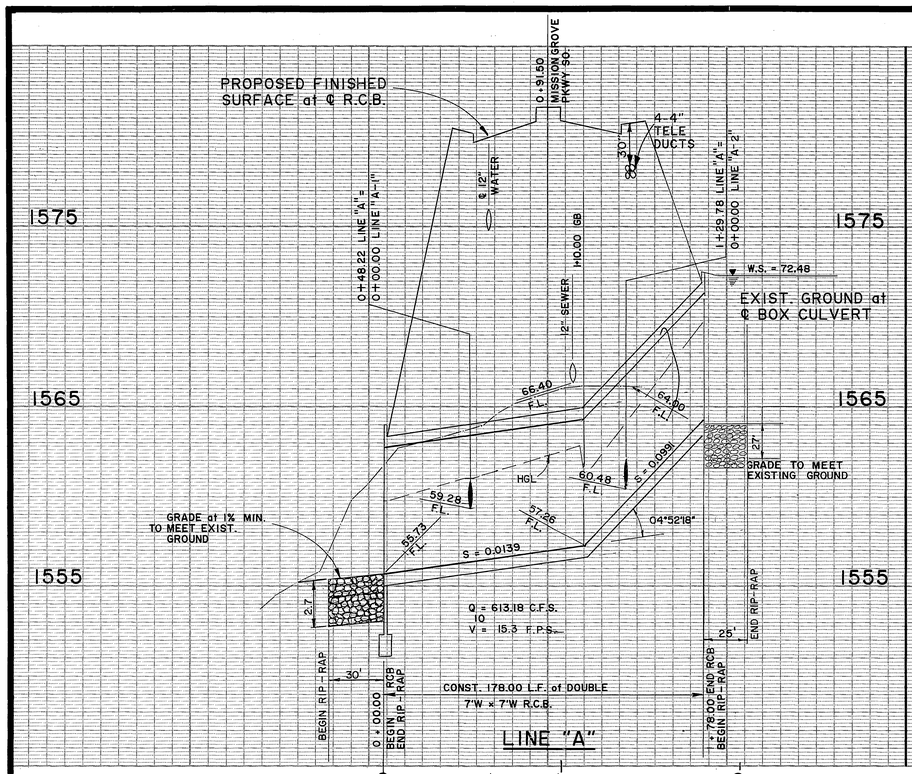
APPROVED BY: Barry Bell, DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

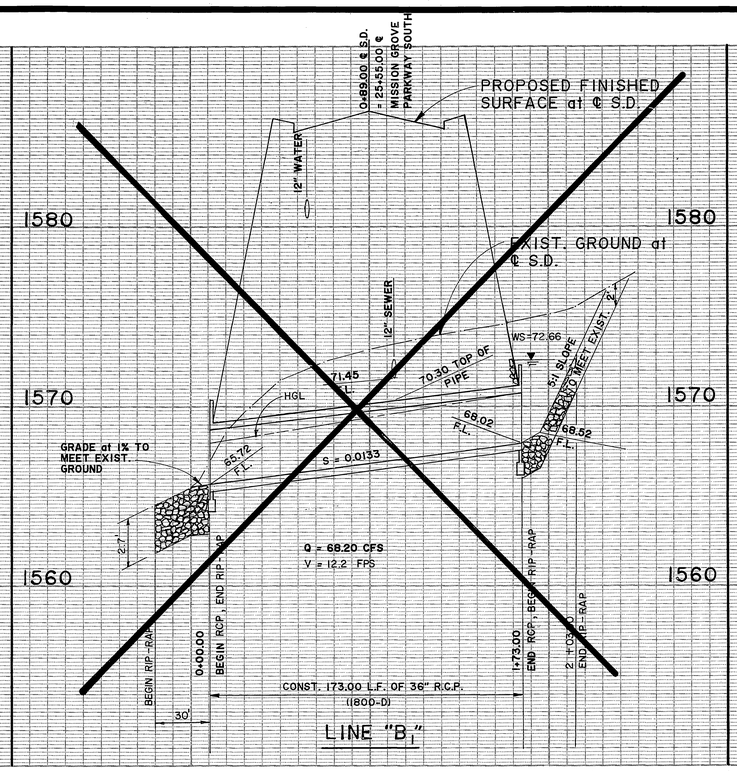
CFD 86-1 IMPROVEMENT AREA No. 1
STREET IMPROVEMENT PLANS
MISSION GROVE PKWY SO
STA. 41+00.00 TO STA. 47+83.40

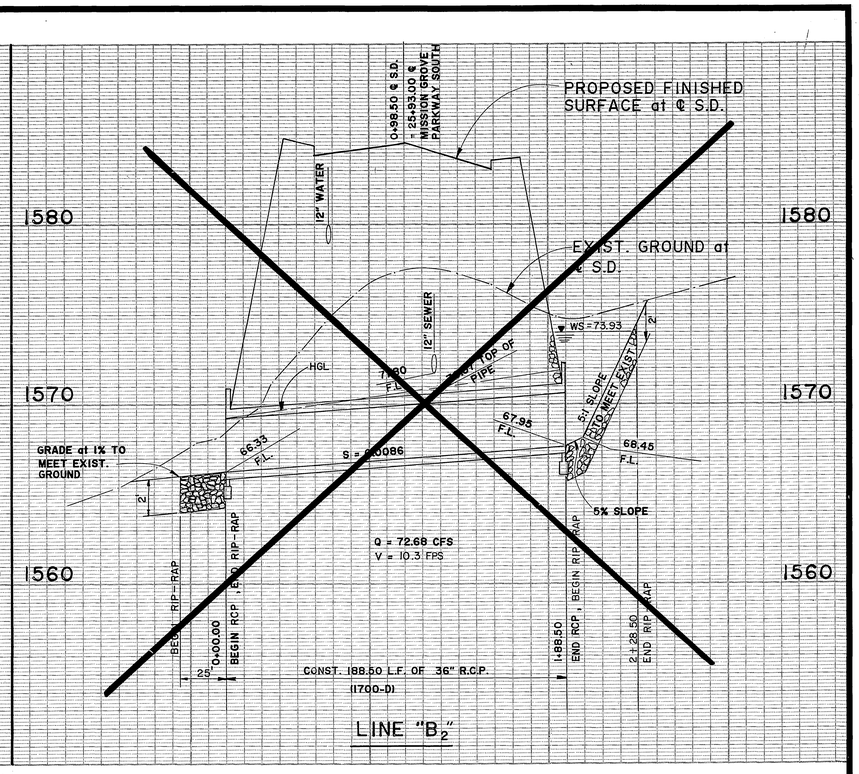
HORIZ. SCALE 1" = 40' VERT. SCALE 1" = 4'

PROJECT NO. R-3056
SHEET 21 OF 88
FILE NO.: 8710164

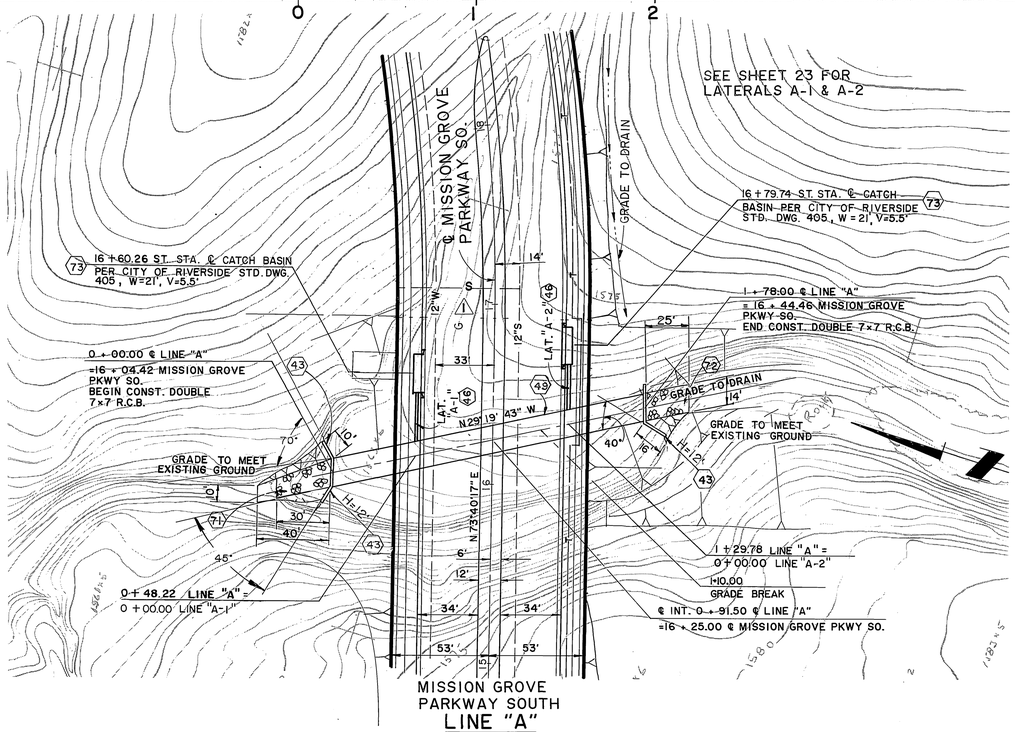
INDEXED 7-31-90





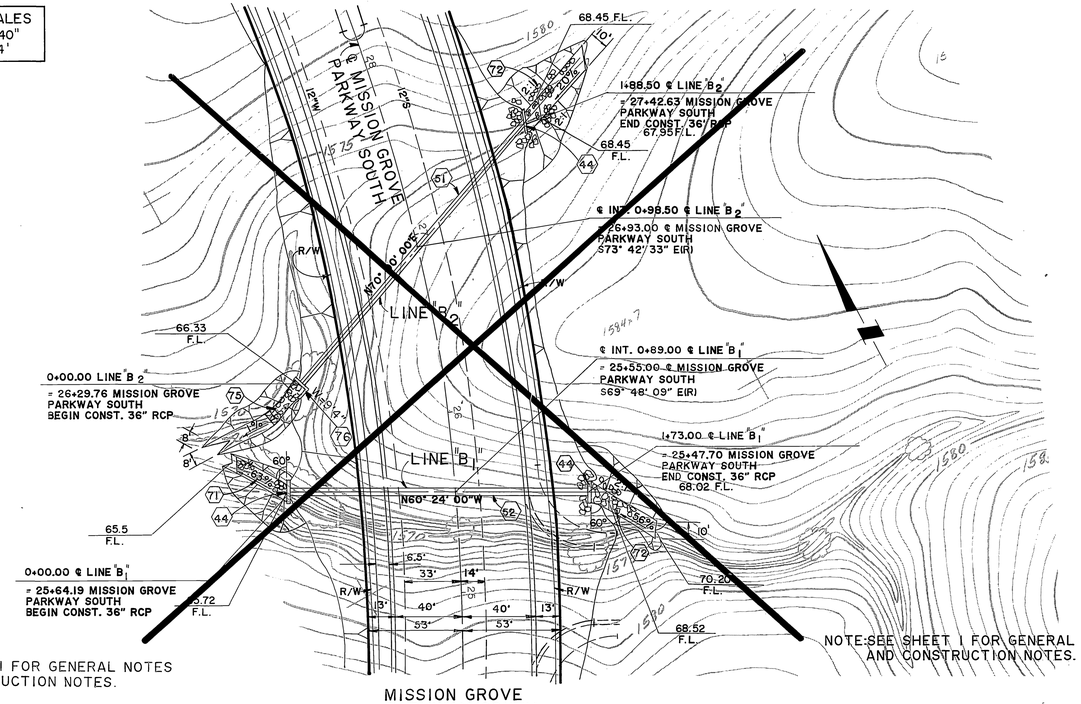


PROFILE SCALES
HORIZ. 1" = 40"
VERT. 1" = 4'



MISSION GROVE PARKWAY SOUTH
LINE "A"

NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.



NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

MISSION GROVE PARKWAY SOUTH

AS BUILT 8/27/87 RM

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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 JERRY D. SMITH No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/4/89
APPROVED BY:

SCALE: 1" = 40'
DATE: FEB. 1989

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK:
P.K. NAIL & CITY TAG TOP OF LARGE ROCK 70' S'LY OF ALEGO, & 0.60 MI. S.E.'LY OF VIA VISTA DR. NEAR P.P. NO. 77SM25-H. ELEV. = 1508.85'

MARK	REVISIONS	APPR.	DATE
1	ADDED SEWER LATERAL		5/3/90

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE A,

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

PROJECT NO. R-3056
SHEET 22 OF 88
FILE NO.: 8710164

WRK 11/10/89 R&R 12/12/89

INDEXED 7-24-90 GFI

AS BUILT 8/6/87 BJM

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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 JIMMY M. SMITH No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. 35458

EXPIRATION DATE: 9/30/91 DATE: 11/10/87

APPROVED BY:

SCALE:

DATE:

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300
P.O. Box 493
Riverside, CA 92502
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FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D"
Colton, CA 92324
(714) 825-1082

73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

BENCH MARK:

SEE SHEET No. 1.

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/14/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/15/89

APPROVED BY

DIRECTOR OF PUBLIC WORKS

DATE 12/15/87

WAE 12/14/89 EBR 12/12/89

CFD 86-1 IMPROVEMENT AREA NO. 1

STORM DRAIN IMPROVEMENT PLANS

LAT A-1, A-2

&

LAT C-1, C-2

HORIZ. SCALE: 1" = 10' VERT. SCALE: 1" = 4'

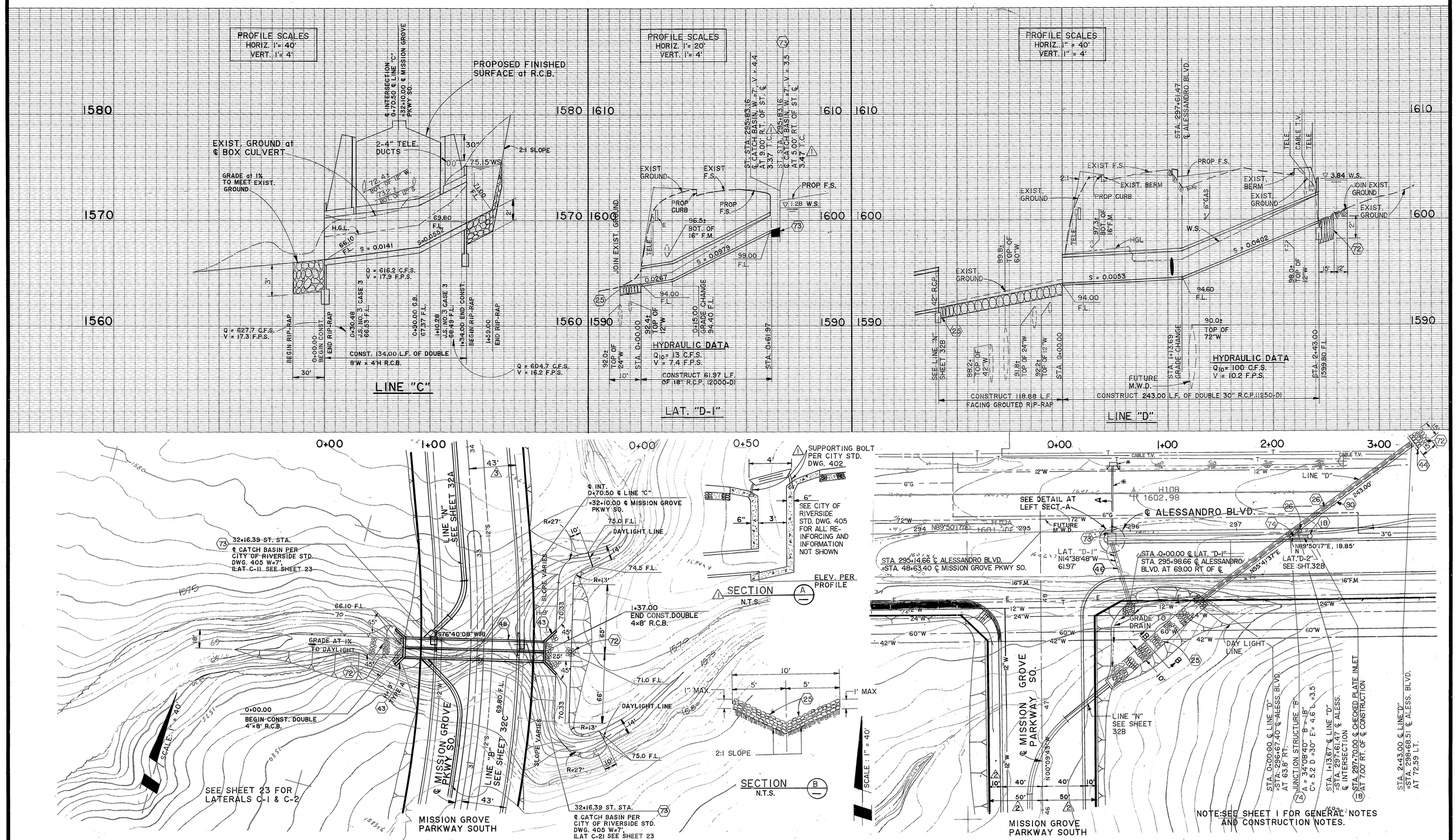
PROJECT NO.

R-3056

SHEET 23 OF 88

FILE NO.: 8710164

INDEXED 7-24-90 HH



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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SON No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy Son
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/14/89
APPROVED BY:

SCALE: 1" = 40'
DATE: FEB. 1989

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
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BENCH MARK: SEE SHEET No. 1.

MARK	REVISIONS	APPR.	DATE
3	ADDED TELEPHONE LINE		
2	REVISED R/W DIMENSION		2/20/90
1	REVISED SECTION "A"		2/20/90

DESIGNED BY M.B. DRAWN BY C.B. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/14/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY Dairy Bol
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINES C & D

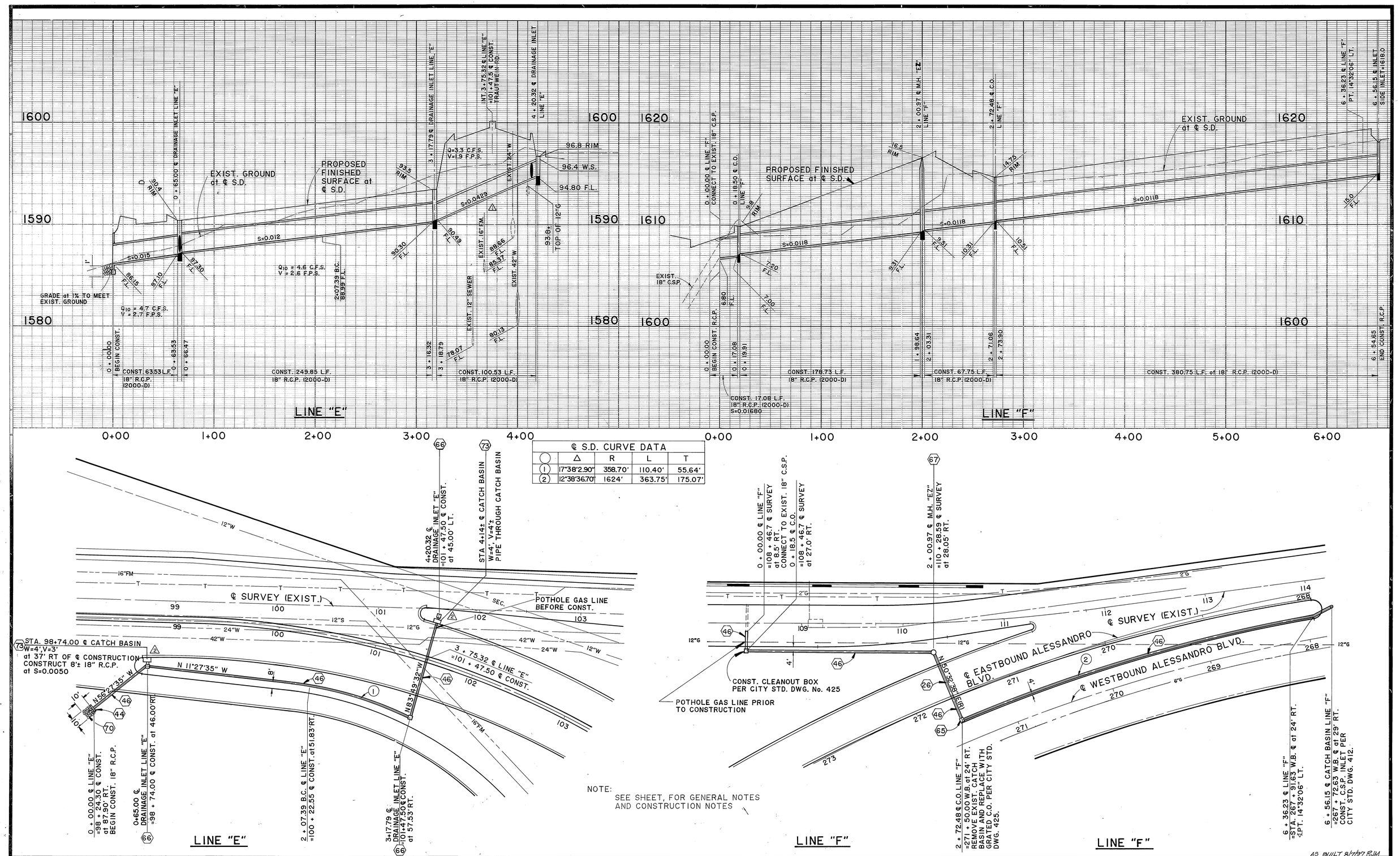
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 24 OF 88
FILE NO.: 8710164

*AS BUILT 8/15/89 RM

WRE 12/18/89 RSE 12/18/89

INDEXED 7-24-90 KH



℄ S.D. CURVE DATA				
	Δ	R	L	T
1	17°38'2.90"	358.70'	110.40'	55.64'
2	12°38'36.70"	1624'	363.75'	175.07'

NOTE:
SEE SHEET, FOR GENERAL NOTES AND CONSTRUCTION NOTES

AS BUILT 8/1/97 RJM

Underground Service Alert
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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 JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/16/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE:
DATE: APRIL 1989
BENCH MARK: SEE SHEET No. 1.

MARK	REVISIONS	APPR.	DATE
2	ADDED CATCH BASINS		5/3/90
1	REVISE LINE "E"		5/3/90

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/1/89
PARK DEPARTMENT		12/1/89
TRAFFIC DIVISION		12/1/89
CHIEF P.W. ENGR.		12/1/89

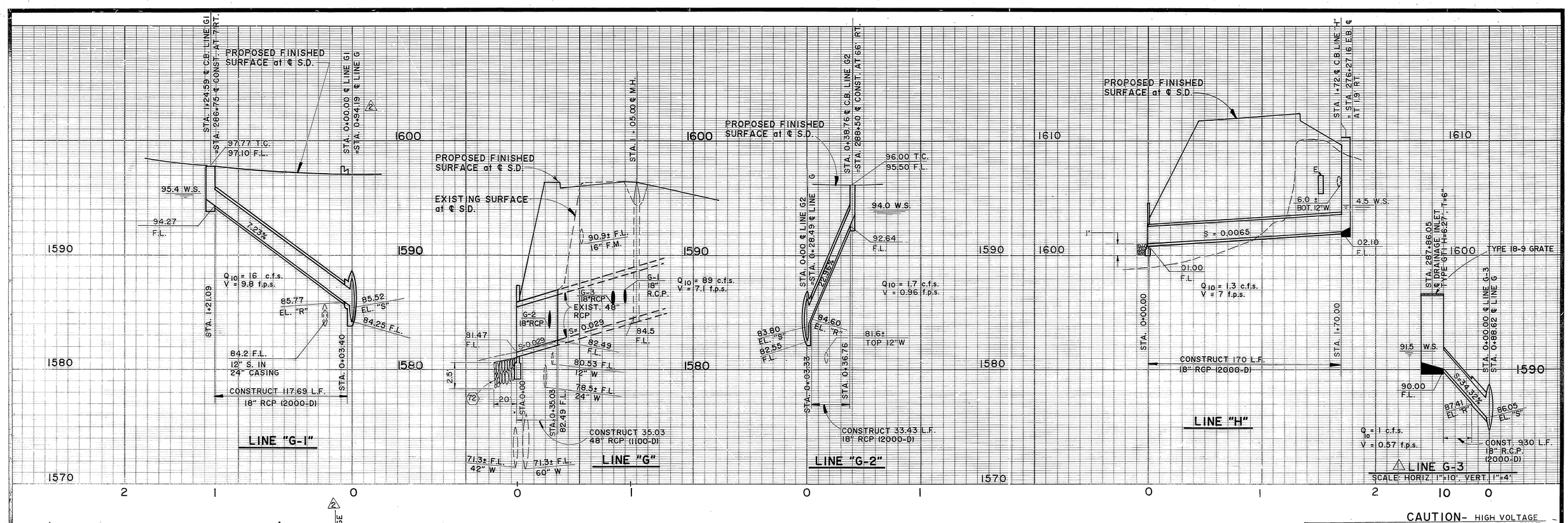
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

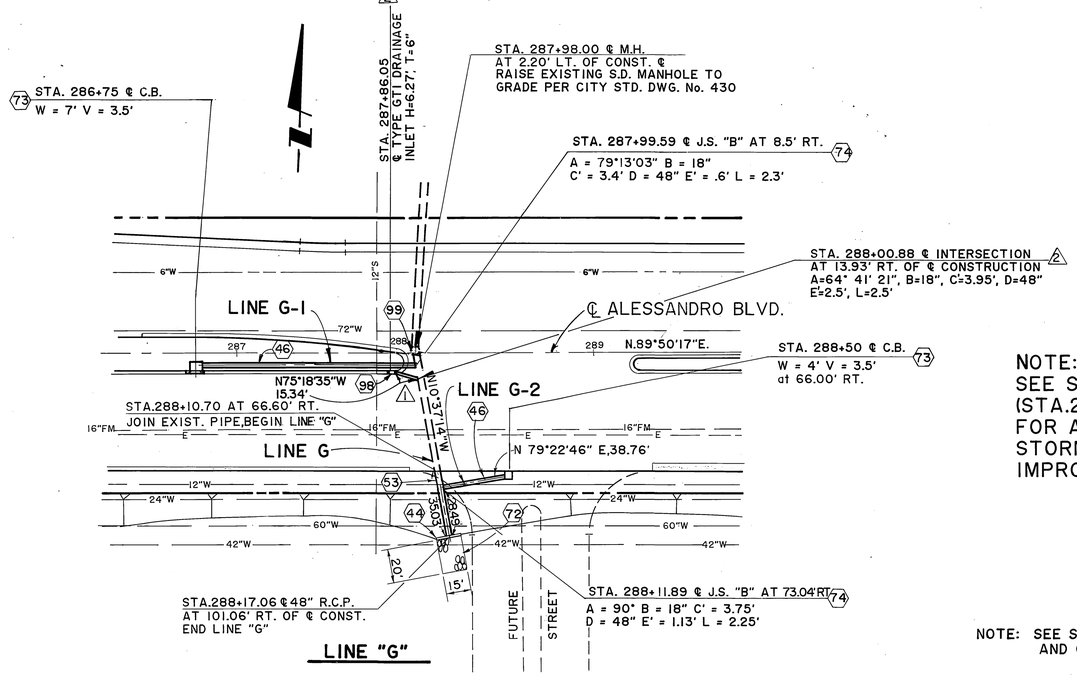
CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINES E & F

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

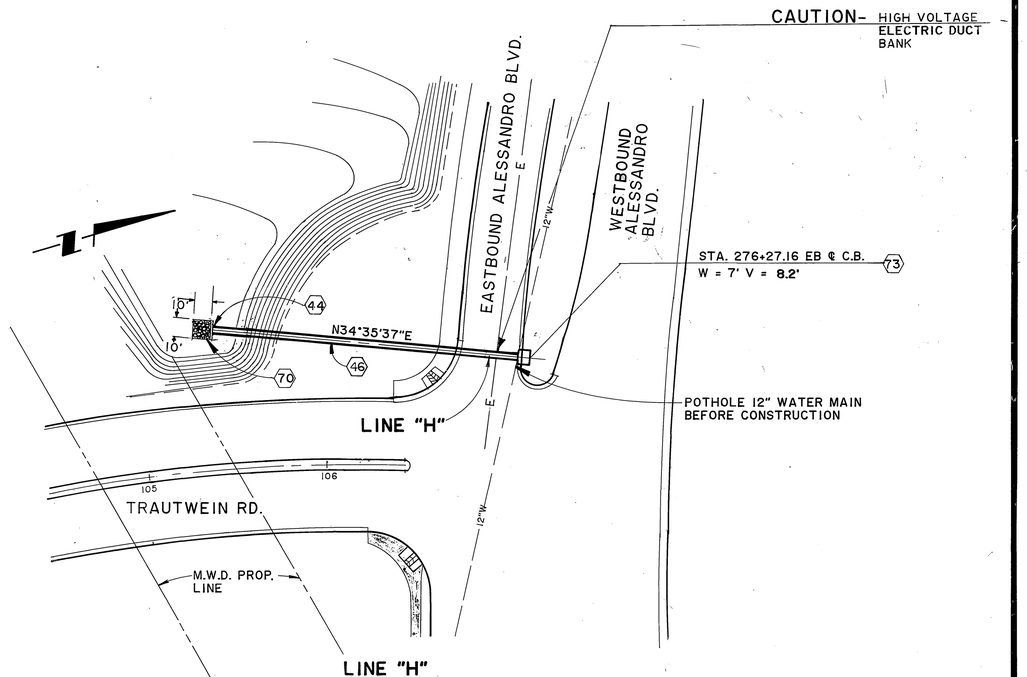
PROJECT NO. R-3056
SHEET 25 OF 88
FILE NO.: 8710164

INDEXED 7-24-90





NOTE:
SEE SHEET 14
(STA.280+40±)
FOR ADDITIONAL
STORM DRAIN
IMPROVEMENTS.



NOTE: SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

AS BUILT 8/10/89 RJM

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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
JIMMY W. STACY
No. 35458
Exp. 9/30/91
CIVIL
CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Stacy
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89

APPROVED BY:

SCALE: VERT. 1"=4'
HORIZ. 1"=40'
DATE: AUG. 1989

BENCH MARK:
SEE SHEET 1

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
2	REVISED STATION	JWS	2/20/90
1	ADDED LINE G3		

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12/15/89
TRAFFIC DIVISION		12/14/89
CHIEF P.W. ENGR.		12/15/89

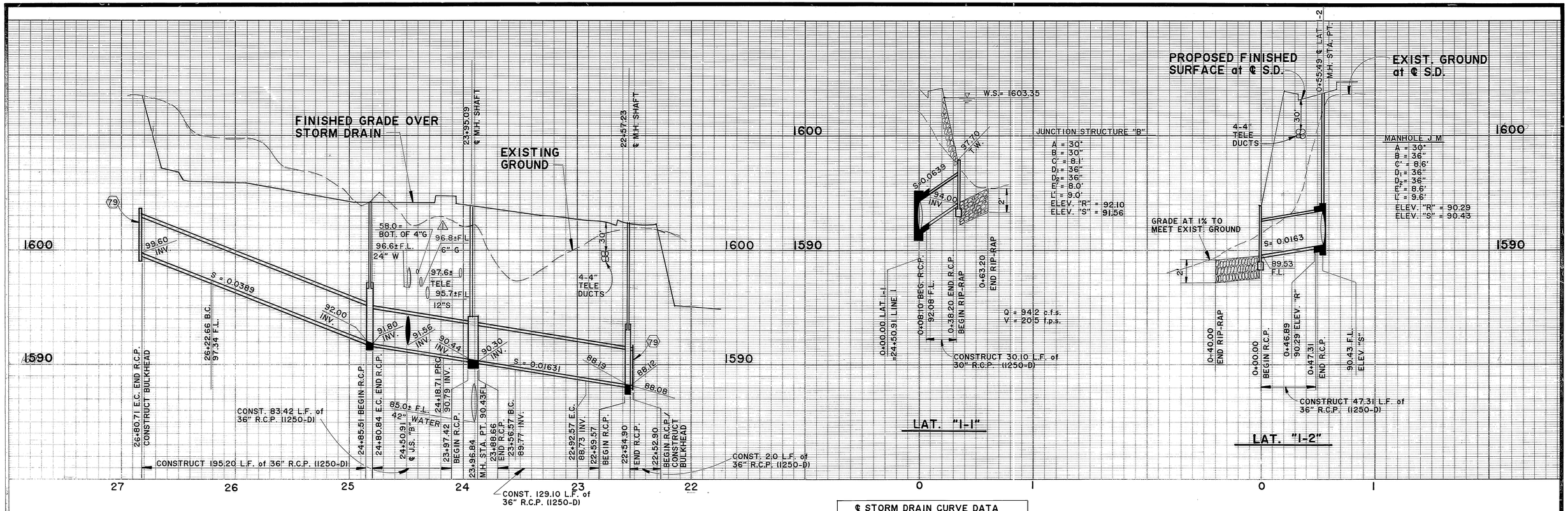
APPROVED BY: Barry Bell
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINES G, G-1, G-2, & H

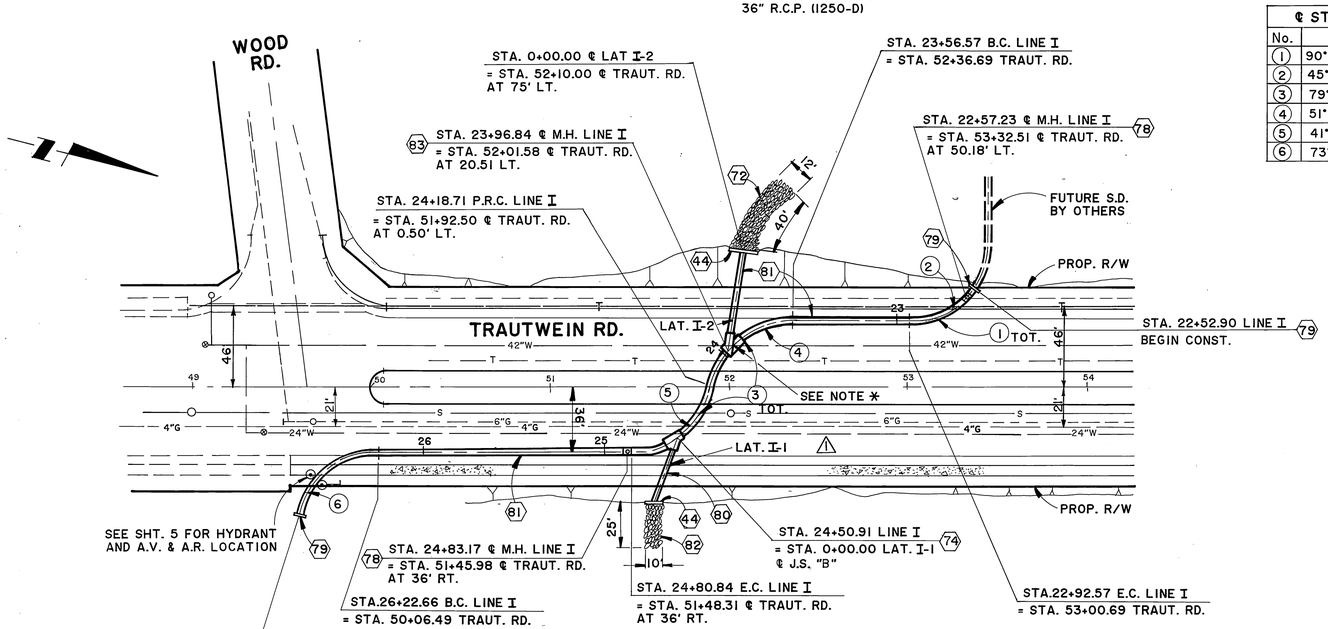
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 26 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 HI



℄ STORM DRAIN CURVE DATA				
No.	Δ	R	L	T
1	90°00'00"	45'	70.69'	45.00'
2	45°00'00"	45'	35.34'	18.64'
3	79°06'43"	45'	62.13'	37.17'
4	51°16'31"	45'	40.27'	21.60'
5	41°00'00"	45'	32.20'	16.82'
6	73°54'35"	45'	58.05'	33.85'



LINE "I"

NOTE: *

AFTER FINISHING JUNCTION STRUCTURE PORTION OF MANHOLE, CONSTRUCT REMOVABLE BRICK AND MORTAR BULKHEAD TO SEAL OFF DOWNSTREAM PORTION OF LINE I. SHAPE AND FINISH TO PROVIDE SMOOTH FLOW PATH FROM LINE I TO LATERAL I-2.

NOTE:

SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES

AS BUILT 8/7/87 RJM

Underground Service Alert

CALL BEFORE YOU DIG

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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 JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sun

REGISTERED CIVIL ENGINEER NO. 35458

EXPIRATION DATE: 9/30/91 DATE: 10/10/89

APPROVED BY:

SCALE:

DATE:

BENCH MARK: SEE SHEET 1

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082

73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
1	ADDED 4"GAS	MC	2/20/90

DESIGNED BY C.H. DRAWN BY C.B. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/14/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12/14/89
CHIEF P.W. ENGR.		12/15/89

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE I
LAT. I-1 & I-2

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

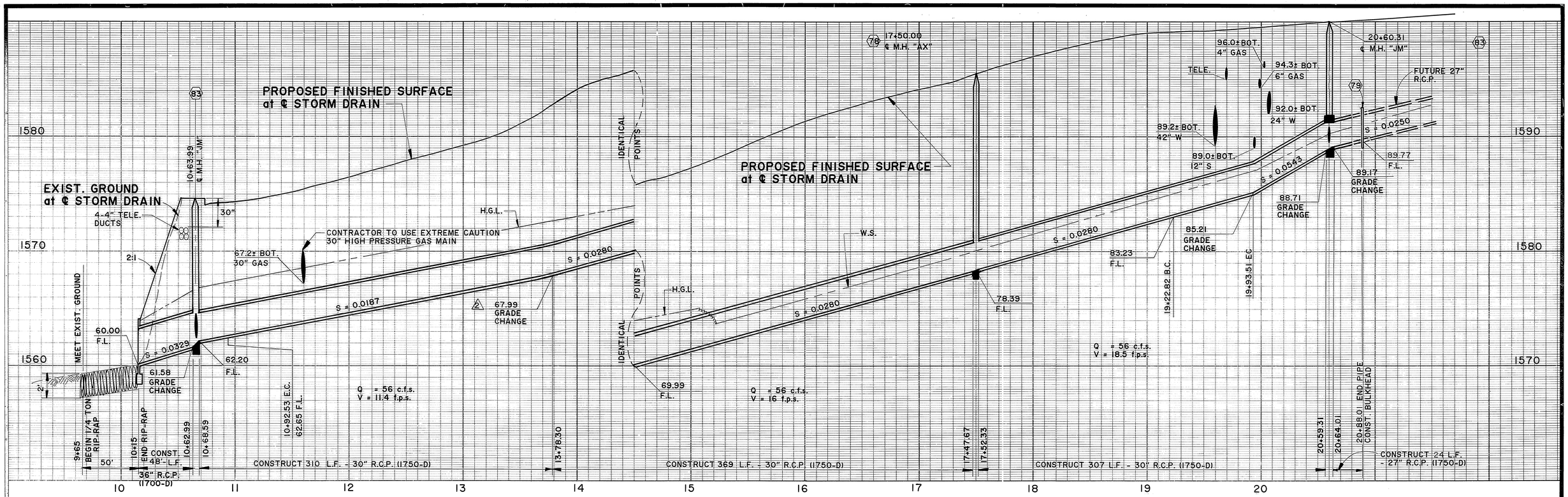
PROJECT NO. R-3056

SHEET 27 OF 88

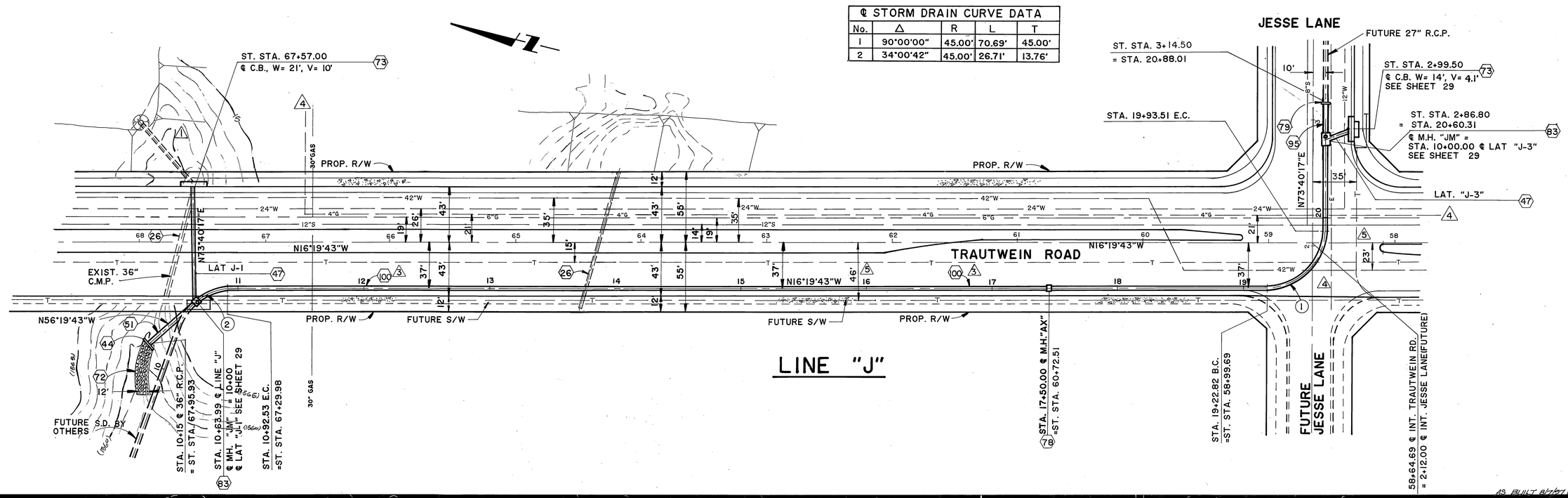
FILE NO.: 8710164

WCR 12/19/89 REK 12/12/89

INDEXED 7-24-90 JH



℄ STORM DRAIN CURVE DATA				
No.	Δ	R	L	T
1	90°00'00"	45.00'	70.69'	45.00'
2	34°00'42"	45.00'	26.71'	13.76'



AS BUILT BY/BY RJM

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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/12/89

APPROVED BY:

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

DATE: APRIL 1989

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK: SEE SHEET No. 1.

MARK	REVISIONS	APPR.	DATE
5	ADDED TELEPHONE LINE		
4	ADDED 4" GAS.		
3	REVISED CONSTRUCTION NOTES	JMC	2/20/90
2	ADDED GRADE CHANGE		
1	CHANGED TO EXISTING		

DESIGNED BY M.M. DRAWN BY C.B. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

APPROVED BY: Bruce Feng, DIRECTOR OF PUBLIC WORKS

DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE J
LATS J-1, J-2, & J-3

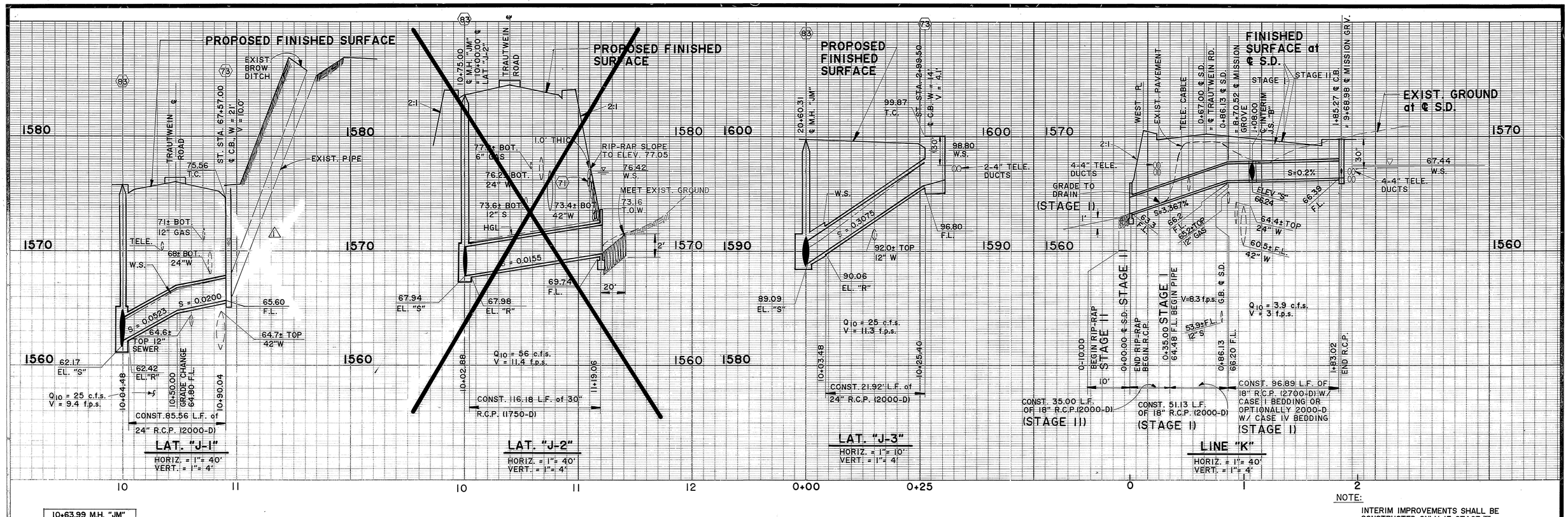
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056

SHEET 28 OF 88

FILE NO.: 8710164

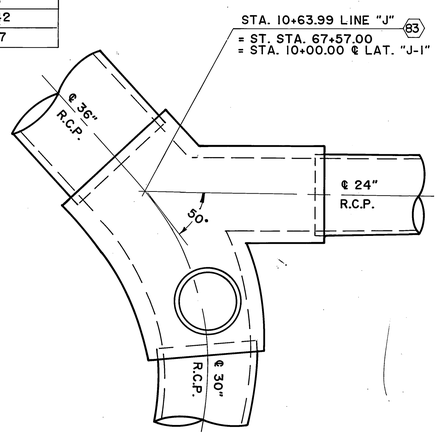
INDEXED 7-24-90 GH



NOTE:

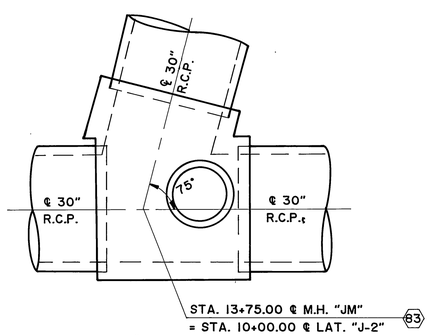
INTERIM IMPROVEMENTS SHALL BE CONSTRUCTED ONLY IF STAGE II IS DEFERRED INDEFINITELY

10+63.99 M.H. "JM"	
A	50°00'00"
B	24"
C'	4.9'
D_1	30"
D_2	36"
E'	4.6'
L'	5.6'
EL "R"	62.42
EL "S"	62.17

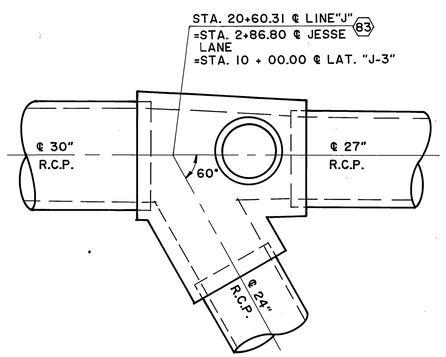


MANHOLE "JM" AT STA. 10+63.99

13+75.00 M.H. "JM"	
A	75°00'00"
B	30"
C'	3.3'
D_1	30"
D_2	30"
E'	3.3'
L'	4.3'
EL "R"	67.98
EL "S"	67.94

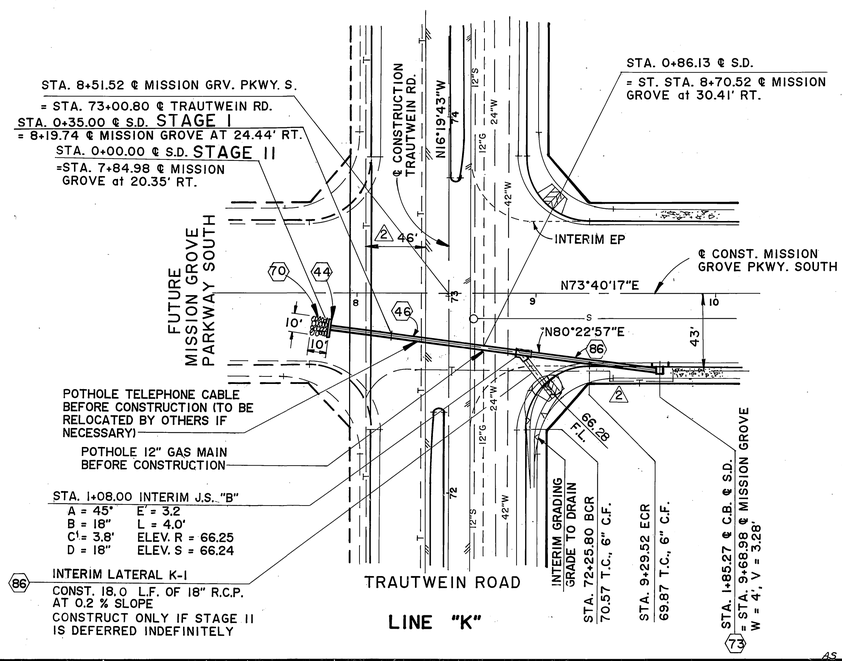


MANHOLE "JM" AT STA. 13+75.00



20+60.31 M.H. "JM"	
A	60°00'00"
B	24"
C'	3.8'
D_1	27"
D_2	30"
E'	3.7'
L'	4.7'
EL "R"	90.06
EL "S"	89.09

MANHOLE "JM" AT STA. 20+60.31



AS BUILT 8/1/87 GM

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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 JIMMY W. SIMS No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/12/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0544, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 40'
DATE: APRIL 1989
BENCH MARK: SEE SHEET 1.

MARK	REVISIONS	APPR.	DATE
2	ADDED TELEPHONE LINE		2/10/89
1	CHANGED TO EXISTING		

DESIGNED BY M.M. DRAWN BY C.B. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		12/14/89
PARK DEPARTMENT		12/14/89
TRAFFIC DIVISION		12/14/89
CHIEF P.W. ENGR.		12/14/89

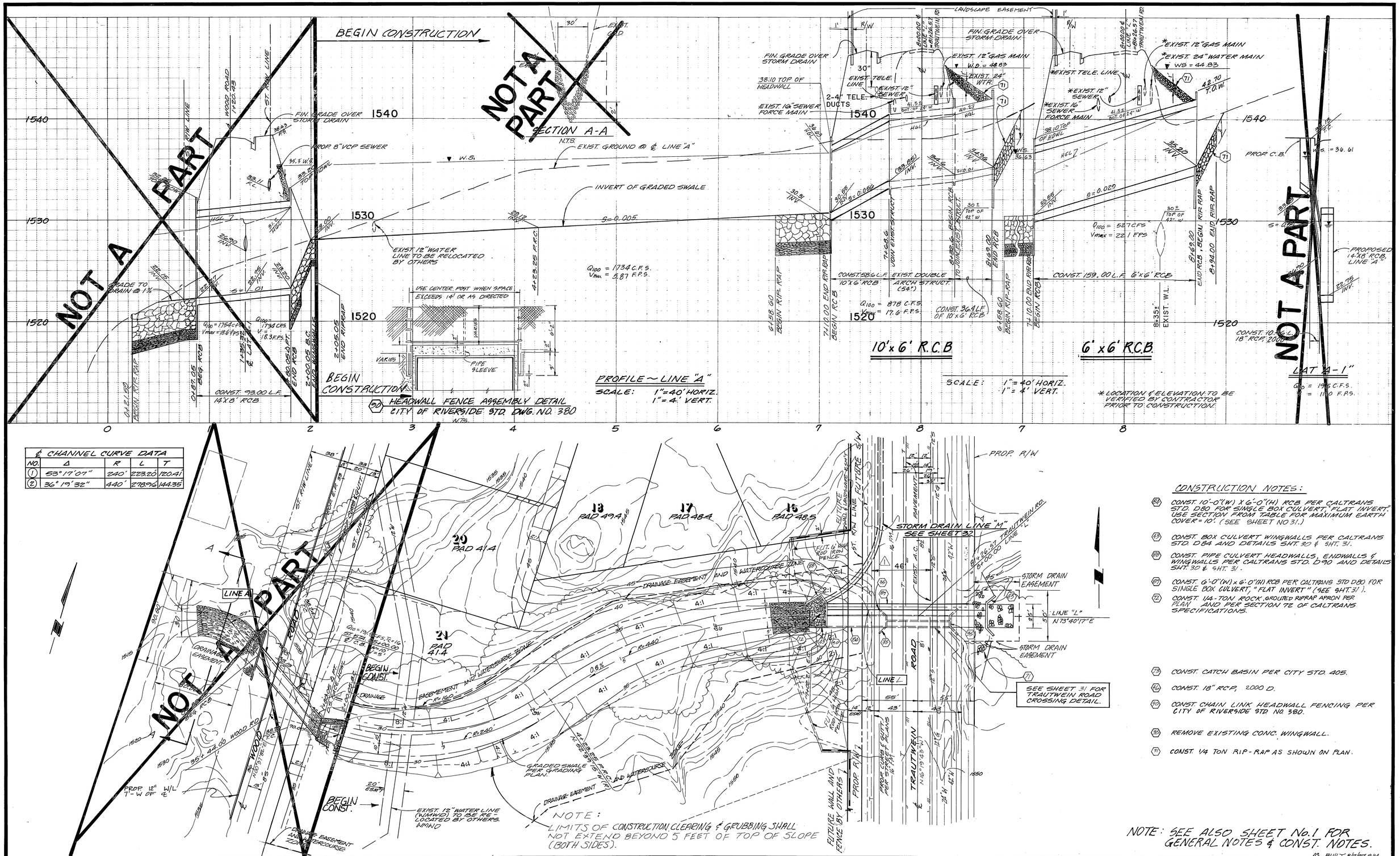
APPROVED BY: Denny Beal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "K"
LATS. J-1, J-2, J-3

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

PROJECT NO. R-3056
SHEET 29 OF 88
FILE NO.: 8710164

INDEXED 7-24-95 GH



℄ CHANNEL CURVE DATA				
NO.	Δ	R	L	T
1	53°17'07"	240'	223.20	120.41
2	36°19'32"	440'	278.96	144.35

CONSTRUCTION NOTES:

(84) CONST. 10'-0"(W) X 6'-0"(H) RCB PER CALTRANS STD. D80 FOR SINGLE BOX CULVERT, "FLAT INVERT" USE SECTION FROM TABLE FOR MAXIMUM EARTH COVER = 10'. (SEE SHEET NO 31.)

(13) CONST. BOX CULVERT WINGWALLS PER CALTRANS STD. D84 AND DETAILS SHT. 30 & SHT. 31.

(88) CONST. PIPE CULVERT HEADWALLS, ENDWALLS & WINGWALLS PER CALTRANS STD. D90 AND DETAILS SHT. 30 & SHT. 31.

(87) CONST. 6'-0"(W) x 6'-0"(H) RCB PER CALTRANS STD D80 FOR SINGLE BOX CULVERT, "FLAT INVERT" (SEE SHT. 31).

(72) CONST. 1/4-TON ROCK, GROUTED RIPRAP APRON PER PLAN AND PER SECTION 72 OF CALTRANS SPECIFICATIONS.

(79) CONST. CATCH BASIN PER CITY STD. 405.

(46) CONST. 18" RCP, 2000 D.

(90) CONST. CHAIN LINK HEADWALL FENCING PER CITY OF RIVERSIDE STD. NO. 380.

(86) REMOVE EXISTING CONC. WINGWALL.

(71) CONST. 1/4 TON RIP-RAP AS SHOWN ON PLAN.

NOTE: SEE ALSO SHEET No. 1 FOR GENERAL NOTES & CONST. NOTES.

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TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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9/30/91
DATE

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER No. 35458
EXPIRATION DATE 9/30/91 DATE 10/10/89

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, (714) 686-0844 — ☒ RIVERSIDE, CA 92502
11200 SO. MT. VERNON AVE. #D, (714) 825-1082 — ☐ COLTON, CA 92324
73-080 EL PASEO, #103, (619) 346-5691 — ☐ PALM DESERT, CA 92260
JFD ASSOCIATES

SCALE: AS NOTED
DATE: SEPT. 1987

BENCH MARK: CITY OF RIVERSIDE BENCHMARK # F8-E, P.K. NAIL AND CITY TAG IN TOP OF LARGE ROCK 70 S'LY ALESSANDRO BLVD. & 0.6 MI. SE'LY OF VIA VISTA DRIVE, NEAR PP#775963H ELEV. 1502.195

MARK	REVISIONS	APPR.	DATE
1	ADDED TELEPHONE LINE	WLL	10/10/89

DESIGNED BY M.M. DRAWN BY A.S.N. CHECKED BY R.C.H.

WLL 10/10/89 RCH 12/12/89

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "L"

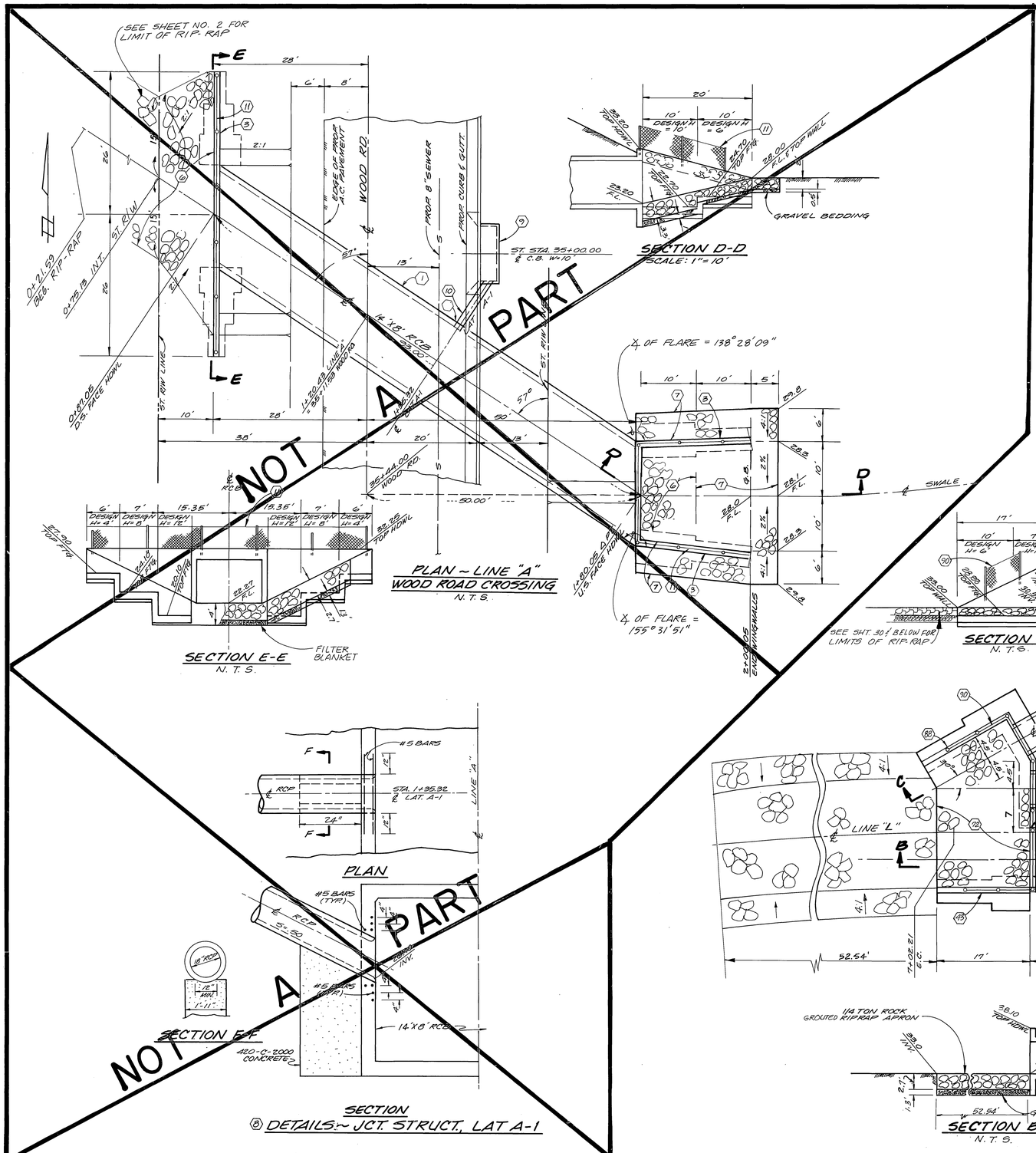
HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=4'

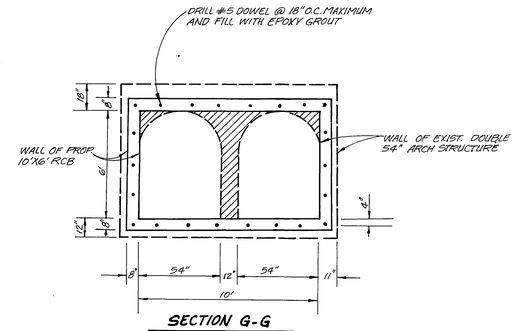
AS BUILT 8/7/97 RMM

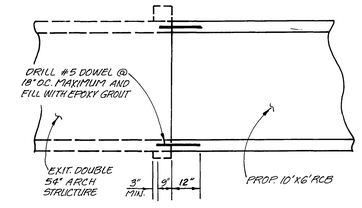
PROJECT NO. R-3056
SHEET 30 OF 88
FILE NO. 8709846

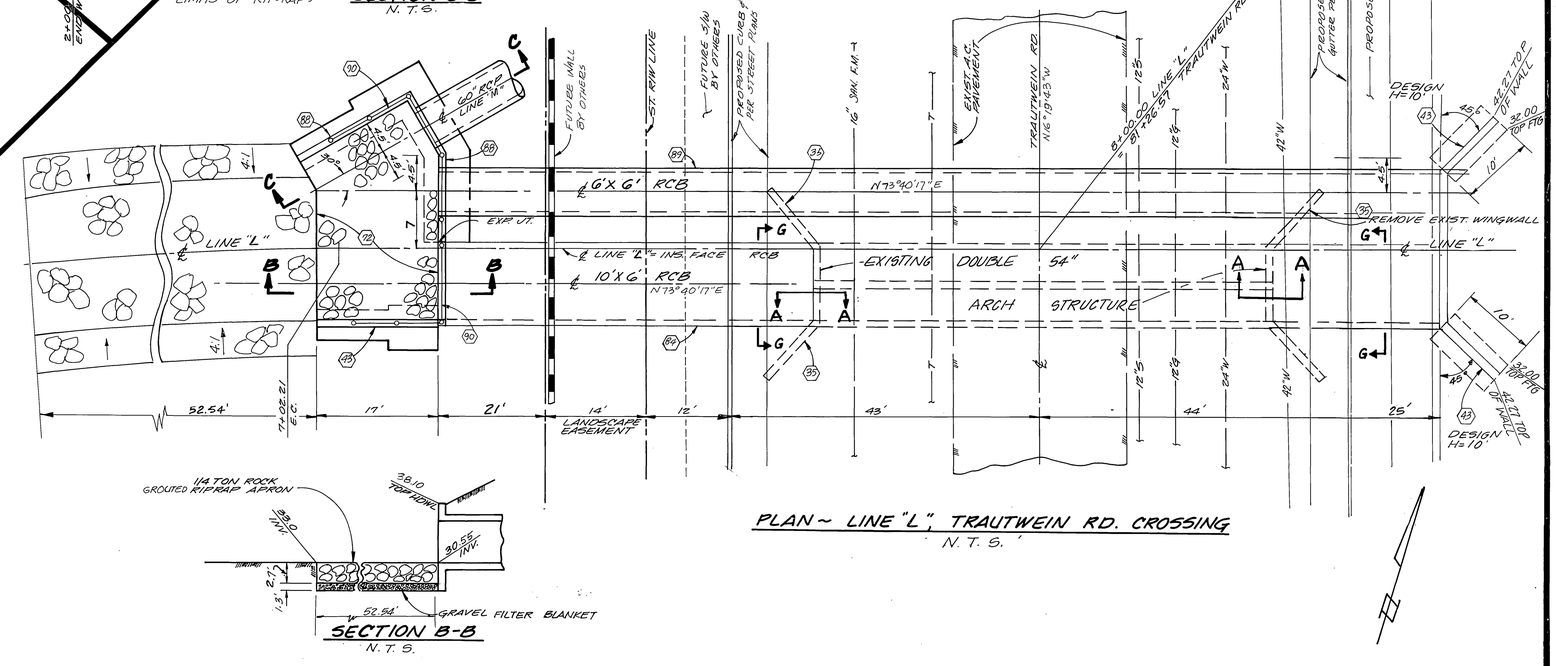
INDEXED 7-24-90 LH

NOTE:
SEE SHEET 30 FOR CONSTRUCTION NOTES.
ALSO, SEE SHEET 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.









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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

9/30/91

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE 9/30/91 DATE: 10/14/89
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493 RIVERSIDE, CA 92502 (714) 686-0844
11200 SO. MT. VERNON AVE. #D COLTON, CA 92324 (714) 825-1082
73-080 EL PASEO, #103 PALM DESERT, CA 92260 (619) 346-5691
JFD ASSOCIATES

SCALE AS NOTED
DATE SEPT. 1987

BENCH MARK: **CITY OF RIVERSIDE BENCHMARK # F8-E, P.K. NAIL AND CITY TAG IN TOP OF LARGE ROCK 70 S'LY ALESSANDRO BLVD. @ 0.6 MI. SE'LY OF VIA VISTA DRIVE, NEAR PP#775963H ELEV. 1502.195**

MARK	REVISIONS	APPR.	DATE

DESIGNED BY DF DRAWN BY ASN CHECKED BY JC

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		9/30/89
PARK DEPARTMENT		10/2/89
TRAFFIC DIVISION		10/12/89
CHIEF P.W. ENGR.		12/5/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

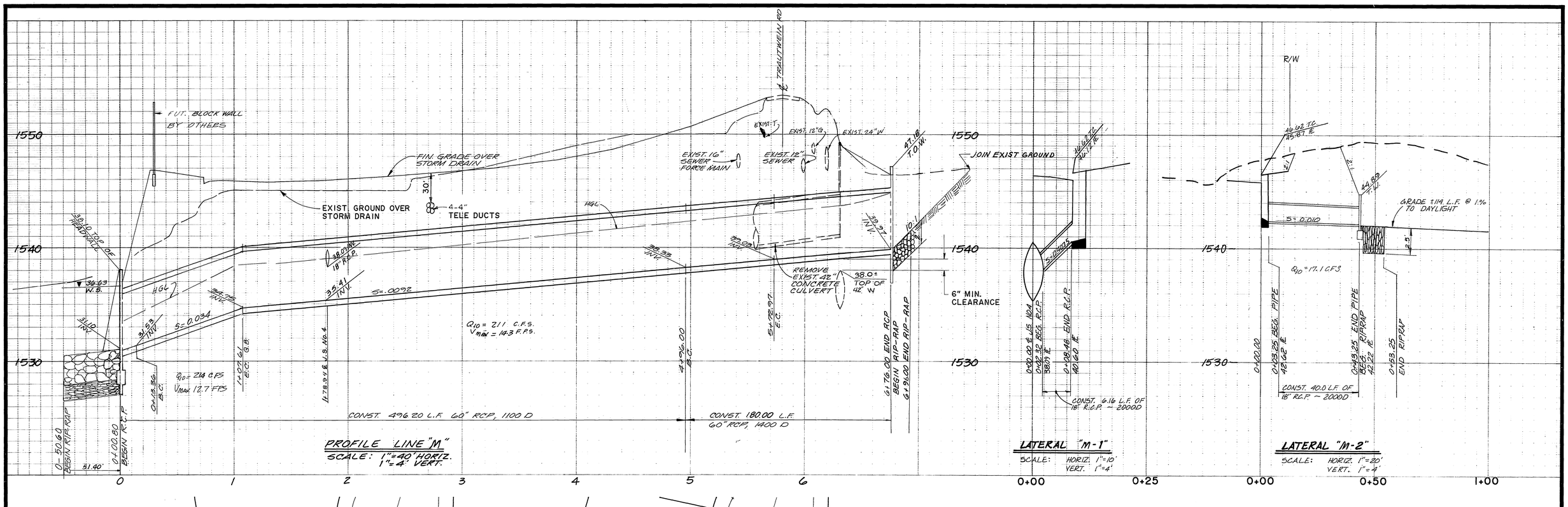
CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "L"
DETAILS

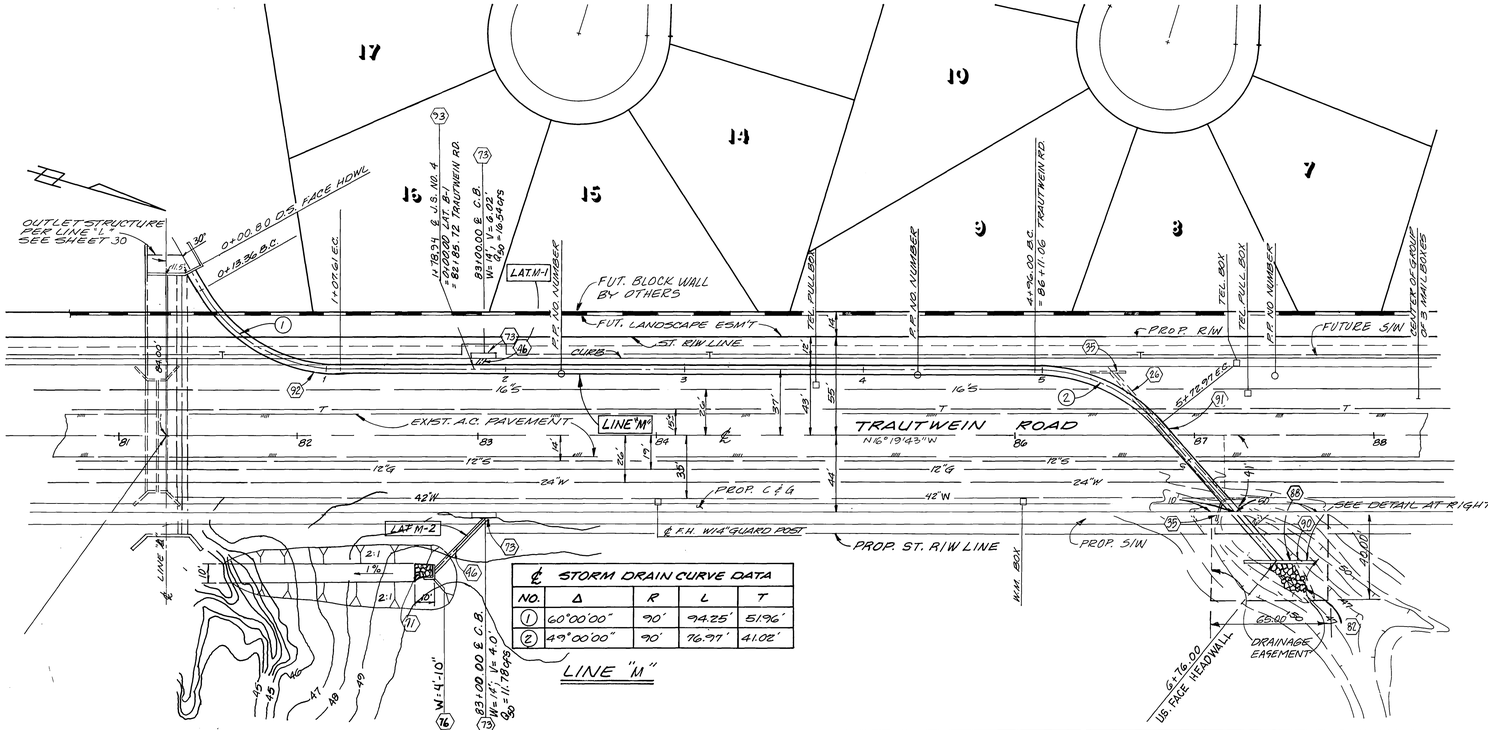
AS BUILT 8/7/97 RJM

PROJECT NO. R-3056
SHEET 31 OF 88
FILE NO. 8710164

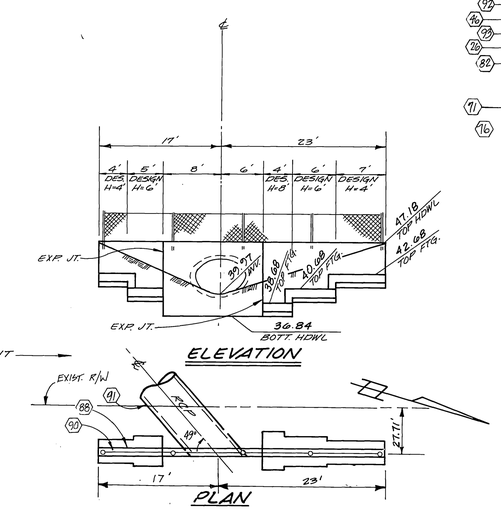
WLK 12/19/89 ERK 12/2/89

INDEXED 7-24-90





℄ STORM DRAIN CURVE DATA				
NO.	Δ	R	L	T
1	60°00'00"	90'	94.25'	51.96'
2	49°00'00"	90'	76.97'	41.02'



DETAILS ~ PIPE CULVERT HEADWALL
N.T.S.

CONSTRUCTION NOTES

- (88) CONST. PIPE CULVERT HEADWALL PER CALTRANS STD. D90 AND DETAILS THIS SHEET. (SEE SHEET NO. 12)
- (73) CONST. CATCH BASIN PER CITY STD. 405.
- (90) CONST. CHAIN LINK HEADWALL FENCING PER CITY OF RIVERSIDE STD. DWG. No. 380.
- (95) REMOVE EXIST. CONC. WINGWALLS.
- (91) CONST. 60" RCP, 1400 D
- (92) CONST. 60" RCP, 1100 D
- (46) CONST. 18" RCP, 2000 D
- (97) CONST. JCT. STRUCT NO. 4 PER CITY STD. 423
- (96) REMOVE EXIST. 42" CONC. CULVERT.
- (82) CONST. LIGHT-CLASS GROUTED RIP-RAP PER THESE PLANS & PER SECTION 72 OF CALTRANS SPECIFICATIONS 30 C.Y.
- (71) CONST. 1/4 TON RIP-RAP AS SHOWN ON PLAN
- (16) CONST. "L" HEADWALL PER CALTRANS STD D89 AND PER THIS SHEET

NOTE: ALSO SEE SHEET No. 1 FOR GENERAL NOTES AND CONSTRUCTION NOTES.

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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

9/30/89

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

SCALE: AS NOTED
DATE: SEPT. 1987

BENCH MARK: CITY OF RIVERSIDE BENCHMARK # F8-E, P.K. NAIL AND CITY TAG IN TOP OF LARGE ROCK 70 S'LY ALESSANDRO BLVD. & 0.6 MI. SE'LY OF VIA VISTA DRIVE, NEAR PP#775963H ELEV. 1502.195

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

WWL 12/12/89 RJK 12/12/89

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

APPROVED BY: Barry Beal, DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

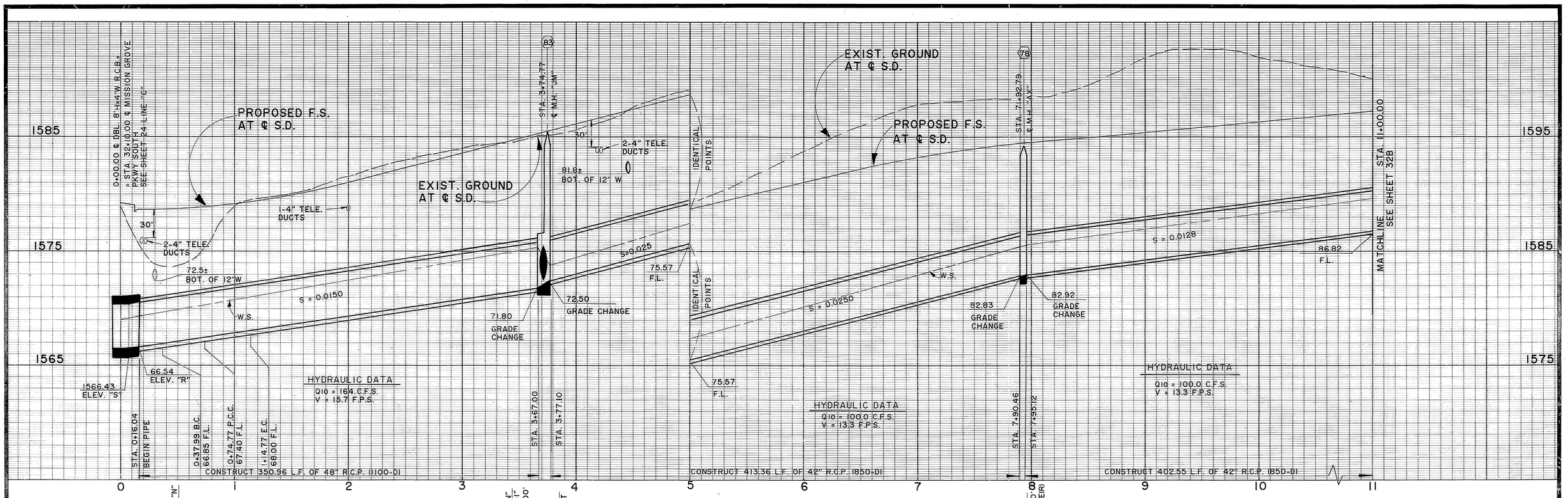
CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "M"
LATERALS M-1 & M-2

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

AS BUILT 8/4/87 RJM

PROJECT NO. R-3056
SHEET 32 OF 88
FILE NO. 8709846

INDEXED 7-24-90 LH



MANHOLE "JM" AT STA. 3+74.77	
A	= 30° 00' 00"
B	= 36"
C1	= 10.4'
D1	= 42"
D2	= 48"
E1	= 9.1'
L1	= 10.1'

JUNCTION STRUCTURE No. 1
A=46°51'09"
B=48"
C=16.46'

CURVE DATA				
O	Δ	R	L	T
1	46°49'32"	45.00'	36.78'	19.49'
2	02°19'11"	988.00'	40.00'	20.00'
3	37°47'47"	90.00'	59.37'	30.81'
*4	19°10'00"	1012.00'	338.54'	170.86'

* DENOTES ENTIRE CURVE DATA

MISSION GROVE PKWY. (SOUTH)

AS BUILT 8/7/87 RJA

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SIKES No. 35458 Exp. CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS SHOWN
DATE: JULY 1989
BENCH MARK: SEE SHEET 1

MARK	REVISIONS	APPR.	DATE
1	ADDED TELEPHONE LINE		2/20/90

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/12/89
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

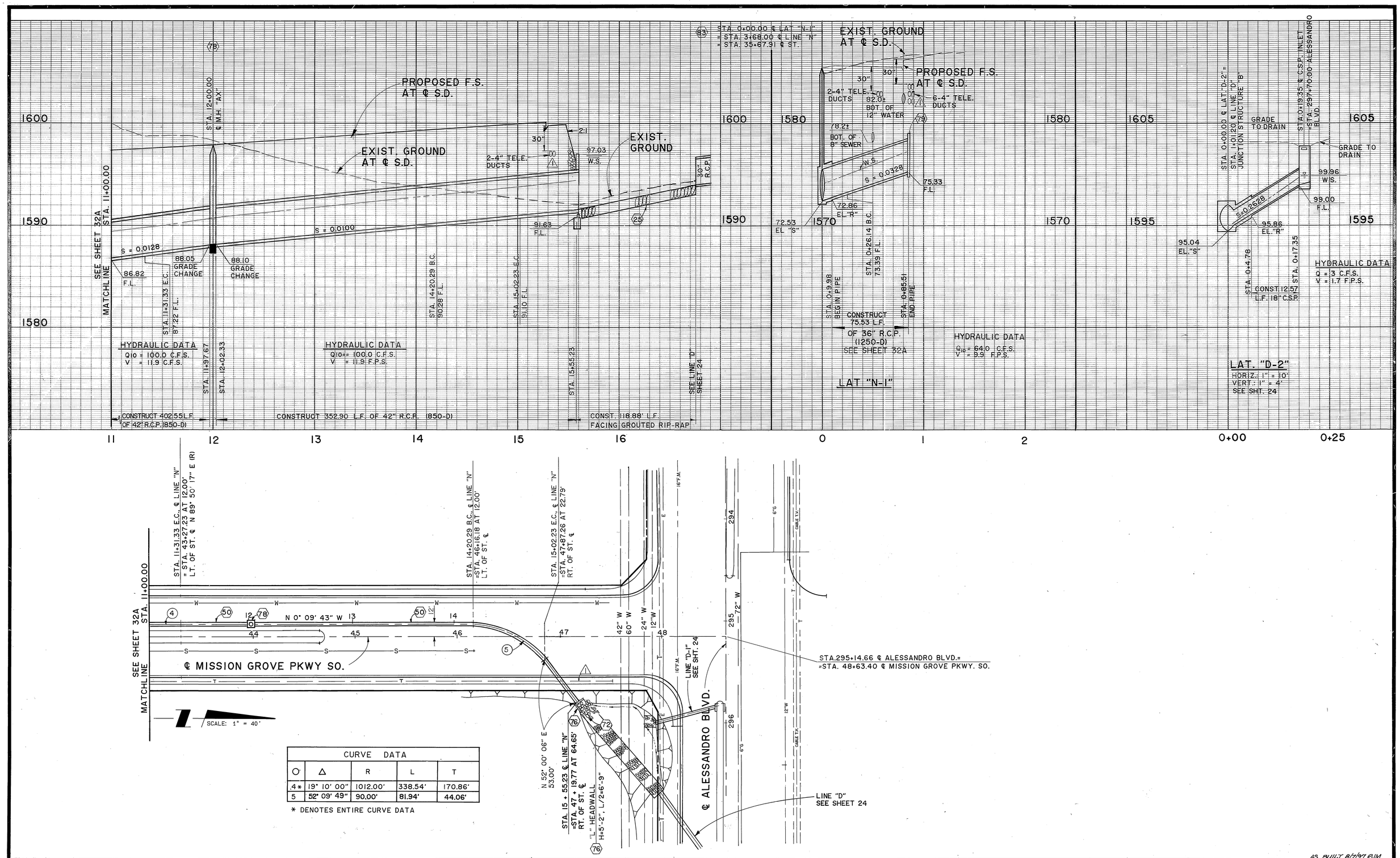
APPROVED BY Barry Beck
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "N"

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

PROJECT NO. R-3056
SHEET 32A OF 88
FILE NO.: 8710164

INDEXED 7-24-90



CURVE DATA				
O	Δ	R	L	T
4*	19° 10' 00"	1012.00'	338.54'	170.86'
5	52° 09' 49"	90.00'	81.94'	44.06'

* DENOTES ENTIRE CURVE DATA

AS BUILT 8/17/91 RJM

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER JIMMY W. SUN No. 35458 Exp. 9/30/91 CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0544, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS SHOWN
DATE: JULY 1989
BENCH MARK: SEE SHEET 1

MARK	REVISIONS	APPR.	DATE
1	ADDED TELEPHONE LINE		

DESIGNED BY M.M. DRAWN BY L.A.T. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

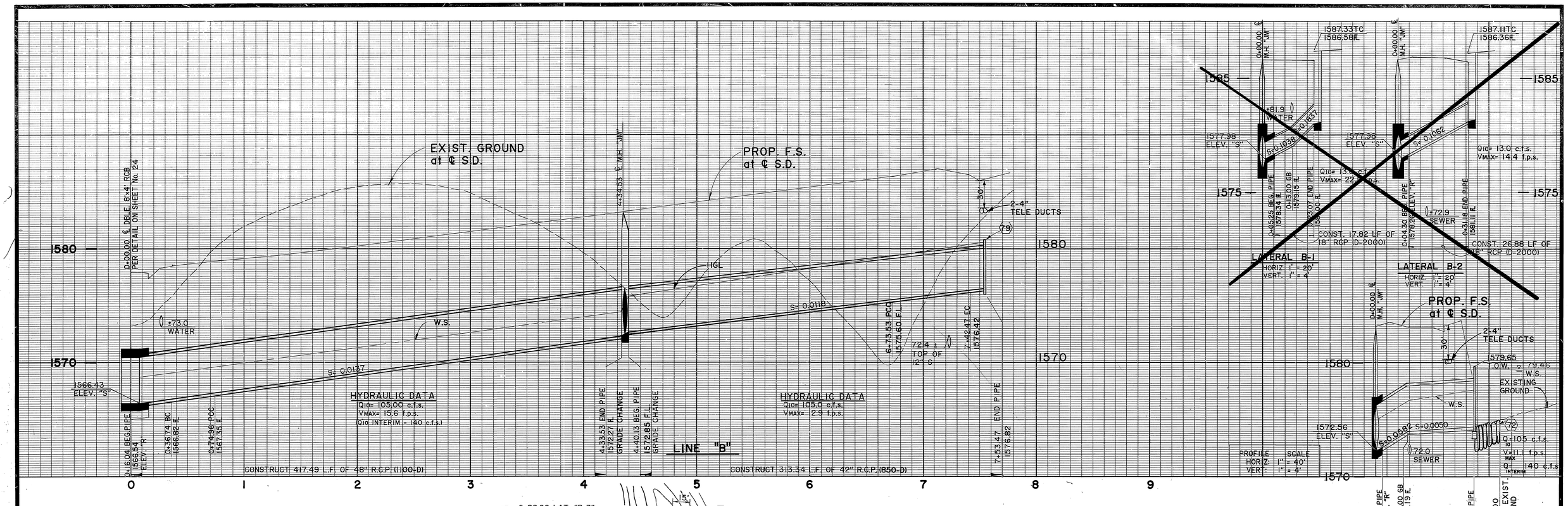
APPROVED BY Barry Beal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINES "N", "N-I", "D-2"

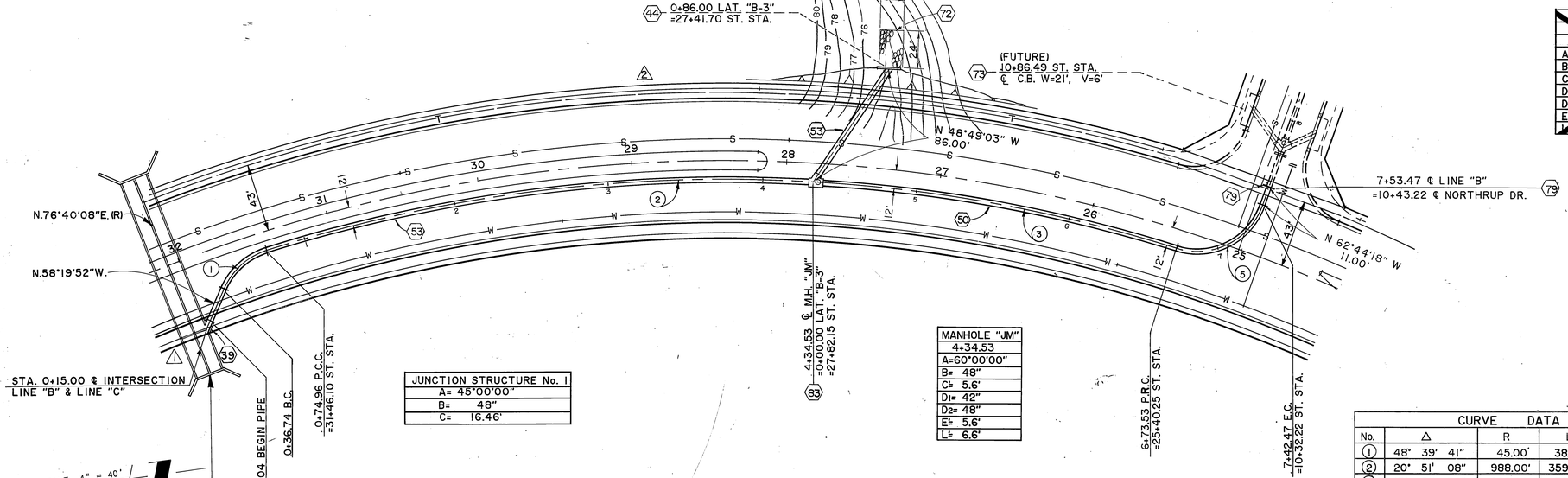
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" 4'

PROJECT NO. R-3056
SHEET 328 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 GH



MANHOLE "JM" 7+81.14	
LAT. B-1	LAT. B-2
A= 47°28'57"	A= 90°00'00"
B= 18"	B= 18"
C= 5.25'	C= 4.3'
D1= 42"	D1= 42"
D2= 42"	D2= 42"
E= 2.78'	E= 3.7'
L= 5.78'	L= 4.7'



JUNCTION STRUCTURE No. 1
A= 45°00'00"
B= 48"
C= 16.46'

MANHOLE "JM" 4+34.53
A=60°00'00"
B= 48"
C= 5.6'
D1= 42"
D2= 48"
E= 5.6'
L= 6.6'

CURVE DATA				
No.	Δ	R	L	T
1	48° 39' 41"	45.00'	38.22	20.35'
2	20° 51' 08"	988.00'	359.57'	181.80'
3	13° 51' 36"	988.00'	239.00'	120.09'
~~4~~	~~34° 48' 44"~~	~~988.00'~~	~~598.57'~~	~~308.79'~~
5	87° 46' 51"	45.00'	68.94'	43.29'

LINE "B"

MISSION GROVE PRKY. (SOUTH)

AS BUILT 8/1/97 RJM

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PRIVATE ENGINEERING NOTE

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3/30/91

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 10/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: AS SHOWN
DATE: MAY 1989
BENCH MARK:

MARK	REVISIONS	APPR	DATE
2	ADDED TELEPHONE LINE		
1	CHANGED TO C.I. INTERSECTION	MC	2/20/91

DESIGNED BY M.M DRAWN BY C.R.G. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12/15/89
PARK DEPARTMENT		12-15-89
TRAFFIC DIVISION		12/15/89
CHIEF P.W. ENGR.		12/15/89

APPROVED BY Barry Bell
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
STORM DRAIN IMPROVEMENT PLANS
LINE "B", "B-3"
HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

PROJECT NO. R-3056
SHEET 32C OF 86
FILE NO.: 8710164

INDEXED 7-24-90

IRRIGATION DETAIL CALL-OUT LEGEND (SHT. 66):

1. STEPPED PLANTER BLOW-UP
2. 12'x 15' PLANTER BLOW-UP
3. 5'x 5' PLANTER BLOW-UP
4. 3'x 3' HOSE TREE PLANTER BLOW-UP

△1 MEDIAN PLANTER BLOW-UP

IRRIGATION NOTES: (CITY APPROVED INSTALLATIONS)

1. THIS DESIGN IS DIAGRAMMATIC. EQUIPMENT OTHER THAN HEADS AND PIPE SHOWN IN PAVED AND TURF AREAS IS FOR DESIGN CLARIFICATION ONLY, AND IS TO BE INSTALLED WITHIN PLANTER AREAS DESIGNATED.

2. DO NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT KNOWN AT THE TIME OF DESIGN. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY AND ALL NECESSARY REVISIONS.

3. SYSTEM DESIGN IS BASED ON MINIMUM OPERATING PRESSURE SHOWN AT EACH POINT OF CONNECTION. MAXIMUM GPM DEMAND SPECIFIED. IRRIGATION CONTRACTOR SHALL VERIFY ALL PRESSURES ON SITE PRIOR TO CONSTRUCTION TO OWNER'S REPRESENTATIVE.

4. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE HIMSELF WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, CURBS, ETC. HE SHALL COORDINATE ALL HIS WORK WITH THE GENERAL CONTRACTOR AND OTHER SUB-CONTRACTORS FOR LOCATION OF PIPE SLEEVES THROUGH WALLS, UNDER ROADS, PAVING, AND STRUCTURES.

5. MAIN LINE FEEDER BETWEEN POINT OF CONNECTION AND VACUUM BREAKER TO BE OF MATERIAL AS REQUIRED BY LOCAL CODE.

6. 120 VOLT ELECTRICAL POWER JUNCTION BOX FOR AUTOMATIC CONTROLLER TO BE PROVIDED BY CONTRACTOR IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE ELECTRICAL CONNECTION OF CONTROLLER TO THE JUNCTION BOX.

7. FINAL LOCATIONS OF AUTOMATIC CONTROLLER ENCLOSURE AND THE BACKFLOW PREVENTION DEVICE SHALL BE APPROVED BY THE CITY'S AUTHORIZED REPRESENTATIVE, AND/OR LANDSCAPE ARCHITECT, OR W.M.W.D.

8. WIRE FROM CONTROLLER TO REMOTE CONTROL VALVES SHALL BE COPPER UF #14 DIRECT BURIAL. USE RED FOR PILOT: WHITE FOR COMMON. INSTALL IN COMMON TRENCH WITH MAIN LINE PIPE AND WITH MINIMUM 18" COVER. USE #12 UF WIRE FOR LENGTHS IN EXCESS OF 2000 FT. PROVIDE ONE EXTRA PILOT WIRE TO FARTHEST VALVES IN ALL DIRECTIONS.

9. IN ADDITION TO THE SLEEVES SHOWN ON THE PLAN, THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ADDITIONAL SLEEVES OF SUFFICIENT SIZE UNDER ALL PAVED AREAS PRIOR TO PAVING UPON APPROVAL OF THE OWNER'S REPRESENTATIVE, IF REQUIRED TO OPERATE SYSTEMS.

10. PROVIDE A MINIMUM 18" COVER OVER ALL PRESSURE MAIN LINE PIPING AND 12" OVER ALL NON PRESSURE LATERAL LINE PIPING. ALL PIPE UNDER PAVED AREAS TO BE PVC SCH. 40 INSTALLED PRIOR TO PAVING. CALL FOR INSPECTION OF MAIN LINE INSTALLATION PRIOR TO BACKFILLING. PARK PROJECTS INSPECTOR SHALL APPROVE A HYDROSTATIC PRESSURE TEST OF 150 PSI FOR 6 HOURS. CENTER FILLING OF MAIN LINE PIPE IS ALLOWED.

11. IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS, STREETS, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING SITE CONDITIONS. CALL PARK PROJECTS INSPECTOR 48 HOURS IN ADVANCE FOR ALL COVERAGE TESTS. ADD ANTI-DRAIN VALVES TO ALL DOWN SLOPE HEADS. NO EXCEPTIONS

12. UPON COMPLETION OF JOB, PROVIDE CITY WITH LANDSCAPE ARCHITECT APPROVED MYLAR REPRODUCIBLE SETS OF "AS BUILT DRAWINGS".

13. THE IRRIGATION SYSTEM SHALL BE FULLY GUARANTEED FOR A PERIOD OF ONE YEAR. ANY DEFECTIVE MATERIAL OR POOR WORKMANSHIP SHALL BE REPLACED OR CORRECTED BY THE IRRIGATION CONTRACTOR AT NO COST TO THE CITY. A COMPLETE VALVE SEQUENCE DIAGRAM WILL BE PROVIDED BY THE CONTRACTOR AND ATTACHED TO THE INSIDES OF THE CONTROLLERS. SAID DIAGRAMS WILL BE REDUCED AND MADE WATERPROOF FOR APPROVAL BY THE LANDSCAPE ARCHITECT.

14. CLEAN-UP ON A DAILY BASIS.

15. CONTRACTOR SHALL PERFORM A 365-DAY MAINTENANCE-WEED ABATEMENT SERVICE AS PART OF HIS CONTRACT. WEED ABATEMENT AND REPLACEMENT OF DAMAGED OR DESTROYED IRRIGATION, GRADES, PLANTING COVER, SHRUBS AND TREES SHALL REMAIN THE CONTRACTOR'S RESPONSIBILITY.

16. REPLACEMENT OF DAMAGED OR DESTROYED ITEMS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY CITY, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.

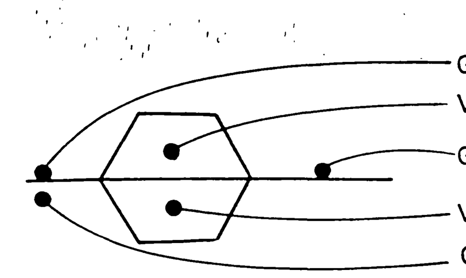
17. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATES OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT OR CITY'S REPRESENTATIVE.

18. QUALITY CONTROL OBSERVATION SEQUENCES ARE AS FOLLOWS (CALL 48 HOURS IN ADVANCE). NOTE CITY INSPECTION REQUIREMENTS.
    1. TESTING OF MAIN LINE PRIOR TO BACKFILLING. CENTER FILLING OF M.L. IS APPROVED. (150 PSI FOR 4 HOURS)
    2. COVERAGE TEST PRIOR TO PLANTING, BUT AFTER CONCRETE HAS BEEN PLACED.
    3. PLANT DELIVERY APPROVAL INCLUDING LINERS.
    4. PLANT PIT LOCATIONS, DEPTHS, & BACKFILL MIX.
    *5. COVERAGE TEST AFTER PLANTING PRIOR TO 365 DAY MAINTENANCE INCLUDING CONTROLLER SEQUENCING.
    *6. COVERAGE TEST AT END OF 365 DAY MAINTENANCE PERIOD INCLUDING CONTROLLER SEQUENCING.

* THE LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE RESERVES THE RIGHT TO WAIVE, SHORTEN OR LENGTHEN EACH CONTROLLER STATION OPERATION.

19. PROVIDE THE FOLLOWING EXTRA EQUIPMENT TO BE GIVEN TO THE PARK PROJECTS INSPECTOR FOR FINAL APPROVAL.
    1. SIX POP-UP BODIES AND FOUR OF EACH TYPE OF NOZZLE DESIGNED.
    2. TWO KEYS FOR CONTROLLER DOOR.
    3. TWO KEYS FOR ENCLOSURE LOCK.
    4. FOUR RAIN BIRD COUPLER KEYS WITH ATTACHED HOSE SWIVELS.
    5. TWO 1 1/2" REMOTE CONTROL VALVES COMPLETE. FOR DRIP SYSTEMS INCLUDING CONCRETE VALVE BOXES.

20. LOW VOLTAGE WIRE INSTALLATIONS:
    A) CONDUIT BELOW PAVING SHALL BE IN SCH. 40 PVC SLEEVES OF SUFFICIENT SIZE TO CARRY ALL PROPOSED WIRING. PROPOSED WIRING SHALL BE CONTAINED IN A SEPARATE SLEEVE, NOT WITHIN WATER PIPE SLEEVING.
    B) ALL RCV SPLICE CONNECTIONS SHALL OCCUR IN A VALVE BOX. ALL WIRE RUNS BETWEEN REMOTE CONTROL VALVES AND CONTROLLER SHALL BE INSTALLED AS CONTINUOUS RUNS WITHOUT SPLICES.
    C) ALL LOW VOLTAGE WIRE SPLICES SHALL BE INSTALLED AS SOLDERED CONNECTIONS, WRAPPED WITH A MINIMUM OF TWO (2) LAYERS OF ELECTRICAL TAPE AND SEALED WITH SCOTCH-COAT. (SNAP-TITE CONNECTORS ARE NOT ACCEPTABLE)
    D) ALL RCV WIRE CONNECTIONS SHALL HAVE 36" PIG-TAILS. EACH BOX SHALL BE TAGGED WITH CHRISTY I.D. TAGS AT HEIR WIRE CONNECTIONS. EACH I.D. TAG SHALL BE COORDINATED WITH EACH CONTROLLER STATION NUMBER.



NOTE: HARDIE SERIES 102 MASTER VALVE (NORMALLY OPEN) (MAIN UNIT SIZED) SHALL BE INSTALLED AFTER, EACH R.P. DEVICE IN CONC. BOX *MARKED* 'MV' AT EVERY P.O.C.- NO EXCEPTIONS.

IRRIGATION LEGEND

SYMBOL	MAKE	MODEL NO.	DESCRIPTION	P.S.I.	G.P.M.	RADIUS	DETAIL
	RAIN BIRD	1806-SAM-PRS	10 Q, H, F - LA	30	4.8 1.3	10'	Q
	RAIN BIRD	1812-SAM-PRS	10 F-LA				
	RAIN BIRD	1806-SAM-PRS	12 Q, H	30	.7 1.3	12'	Q
	RAIN BIRD	1806-SAM-PRS	12 H	30	1.3	12'	Q
	RAIN BIRD	1806-SAM-PRS	15 Q, T, H, F	30	1.0, 1.23, 1.9, 3.7	15'	Q
	RAIN BIRD	1812-SAM-PRS	15 F				
	RAIN BIRD	1806-SAM-PRS	16 Q, T, H-	30	.81, .90, 1.61	16'	Q
	RAIN BIRD	1812-SAM-PRS	16 H, F	30	1.61, 3.22	16'	Q
	RAIN BIRD	1806-SAM-PRS	22 Q, T, H-F SS (ALL T-NOZZLES TO BE BRASS)	30	.81, .90, 1.61	20'	Q
	RAIN BIRD	1812-SAM-PRS	22 Q, T, H-SS	30	3.22, 1.61	20	Q
	RAIN BIRD	1806-SAM-PRS	15 EST, SST	30	.61 1.21	4x15 4x30	
	HUNTER	I-20 090	180, 360-08 NOZZLE (4" ROTARY POP-UP)	35	3.4	29'-39'	P
	HUNTER	I-20	180-09 NOZZLE (4" ROTARY POP-UP)	35	4.1	38'-46'	P
	HUNTER	I-20	-06 (4" ROTARY POP-UP	35	2.2	25'-36'	P
	RAIN BIRD	1806-SAM-PRS	5 Q, CST-B (STREAM BUBBLER)	30	.5 .5	5'	Q
				P.S.I.	G.P.H.		DETAIL
	SALCO	PC6-1	PRESSURE COMPENSATED EMITTERS ONE PER 3 SHRUBS OR LESS EACH SHRUB TO RECEIVE 2CT-125 PVC DISTRIBUTION TUBES WITH ONE DTS-20-400 PLASTIC TUBE STAKE & ONE EOCV-125 EMITTER OUTLET CHECK VALVE ON EACH TUBE ALL EMITTERS TO BE ENCASED IN A SALCO DAS-8 ACCESS SLEEVE	45	6		B
	SALCO	PC6-2	PRESSURE COMPENSATED EMITTERS TWO PER EACH TREE & PALM INSTALL WITHIN A 6" DIA x 36" DEEP PERFORATED PIPE FILL WITH 3/4" AGG. COVER W/ACCESS SLEEVE	45	12		E
	SALCO	WMP-75	BALL VALVE WITHIN A CHRISTY B3/B3TL CONCRETE VALVE BOX & C.I. LOCKING LID (FOR FLUSHING SYSTEM)				F
	RAIN BIRD	33 DLRC	QUICK COUPLER W/LOCKING YELLOW RUBBER CAP				D
	RAIN BIRD	PEB SERIES	REMOTE CONTROL VALVE (PLAN SIZED) W/BRASS ANGLE CONTROL VALVE & *AG. PRODUCTS 4E-1½" WYE STRAINER W/100 MESH SCREEN - ALL WITHIN* A CHRISTY CONC. B30/B3TL VALVE BOX W/METAL NON-HINGED LOCKING LID.				A
	RAIN BIRD	EFB-CP-PRS-B SERIES.	REMOTE CONTROL VALVE (PLAN SIZED) W/ INDICATED PRESSURE REGULATOR (P): PRE-SET TO 45 P.S.I. INCLUDE BRASS ANGLE SHUT-OFF VALVE WITHIN A CHRISTY CONC. B3/B3TL VALVE BOX W/METAL, NON-HINGED LOCKING LID.				R
	STOCKHAM		150LB CLASS G.V. LINE SIZED CHRISTY G5 VANDAL PROOF BOX W/C.I. LOCKING LID				H
	STOCKHAM		150LB CLASS G.V. LINE SIZED CHRISTY G5 VANDAL PROOF BOX W/C.I. LOCKING LID. STUB-OUT BOX FOR FUTURE				G
			REDUCED PRESSURE/DOUBLE CHECK BACK FLOW DEVICE AT P.O.C. BY W.M.W.D. AT DEVELOPER EXPENSE PLAN SIZED				I
M			DOMESTIC WATER METER BY W.M.W.D AT DEVELOPER EXPENSE- PLAN SIZED				I
A	RAIN BIRD		R.C. CONTROLLER (PLAN SIZED) WALL MOUNTED W/IN A LE MEUR PEDESTAL MOUNTED INCLOSURE. REFER TO BEIGE FINISH ON PLAN				M, N
P			WILKENS 500 PRESSURE REGULATING VALVE, PLAN SIZE				P
(————)			APPROVED CLASS 200 P.V.C. LATERAL LINES				J, L
(— — —)			APPROVED SCH 40 MAIN LINES TO 1 1/2" DIA., 2" & ABOVE SHALL BE CL.315 P.V.C.				J, L
(=====)			APPROVED SCH 40 P.V.C. SLEEVING				K, L

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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 LANDSCAPE ARCHITECT J. DAVIDSON No. 2651 Exp. 1-31-90 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF
REGISTERED CIVIL ENGINEER NO. ________
EXPIRATION DATE: ________ DATE: ________
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave. Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: NO SCALE
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE
3	REVISED DRIP CONTROL VALVE	[signature]	1/21/94

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER	[signature]	12/13/89
PARK DEPARTMENT	[signature]	12/28/89
TRAFFIC DIVISION	[signature]	12/12/89
CHIEF P W ENGR	[signature]	12/12/89

APPROVED BY [signature] DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

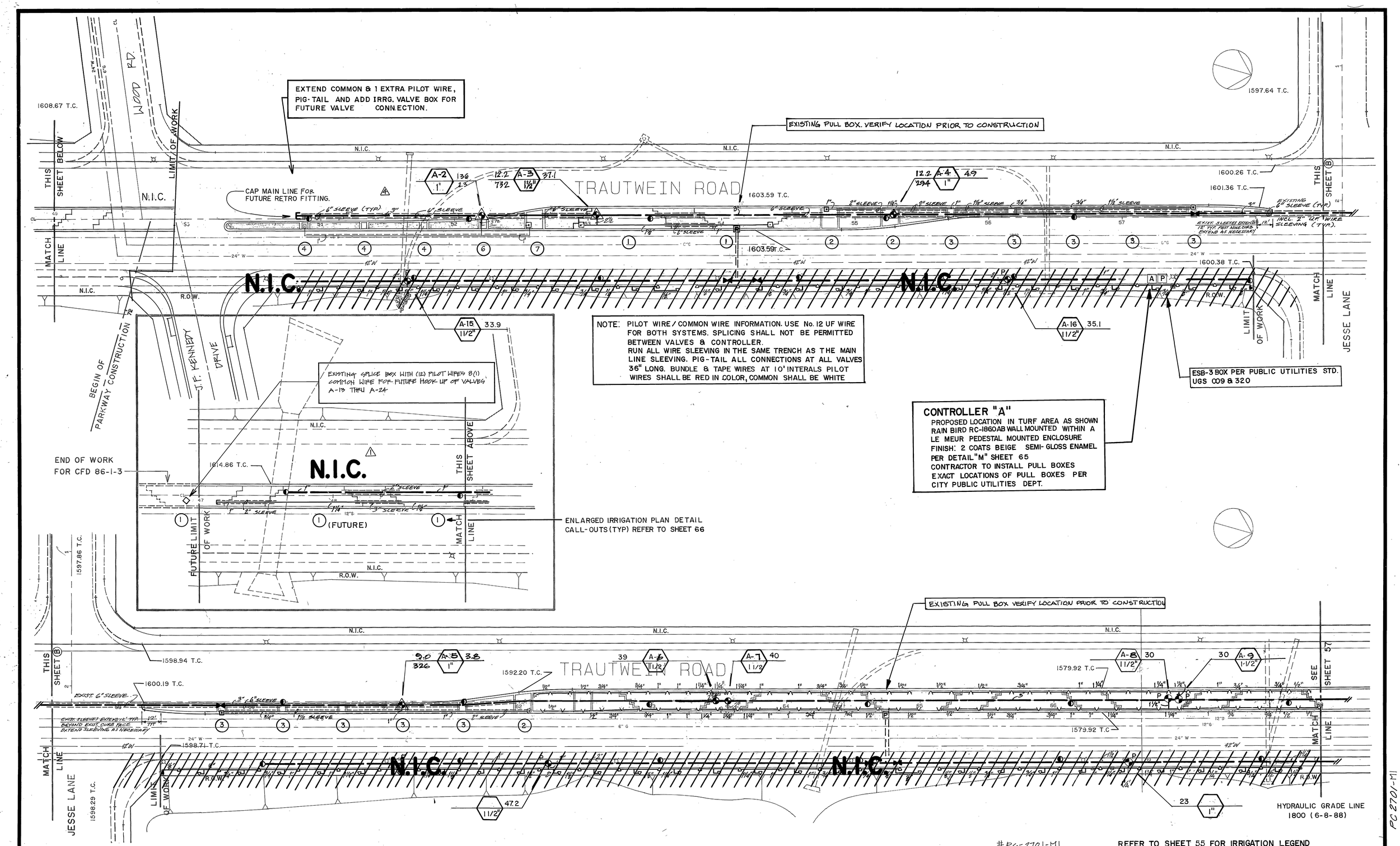
IRRIGATION NOTES & LEGEND

HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO
R-3056
SHEET 55 OF 88
FILE NO 8710164

PC 2701

INDEXED 7-24-90



#PC-2701-M1

REFER TO SHEET 55 FOR IRRIGATION LEGEND

PC 2701-M1

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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 LANDSCAPE ARCHITECT
No. 2851
EXP. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300
P.O. Box 493
Riverside, CA 92502
(714) 686-0844
FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D"
Colton, CA 92324
(714) 825-1082

73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR.	DATE
4	ADDED TURN POCKET LANE	PD	5/26/94
3	REVISED FLUSH MODES/SIZING	MM	11/21/94
1	DELETED PARKWAY IRRIGATION (N.I.C.)	MM	6/26/90

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/20/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

APPROVED BY: Barry Beal
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

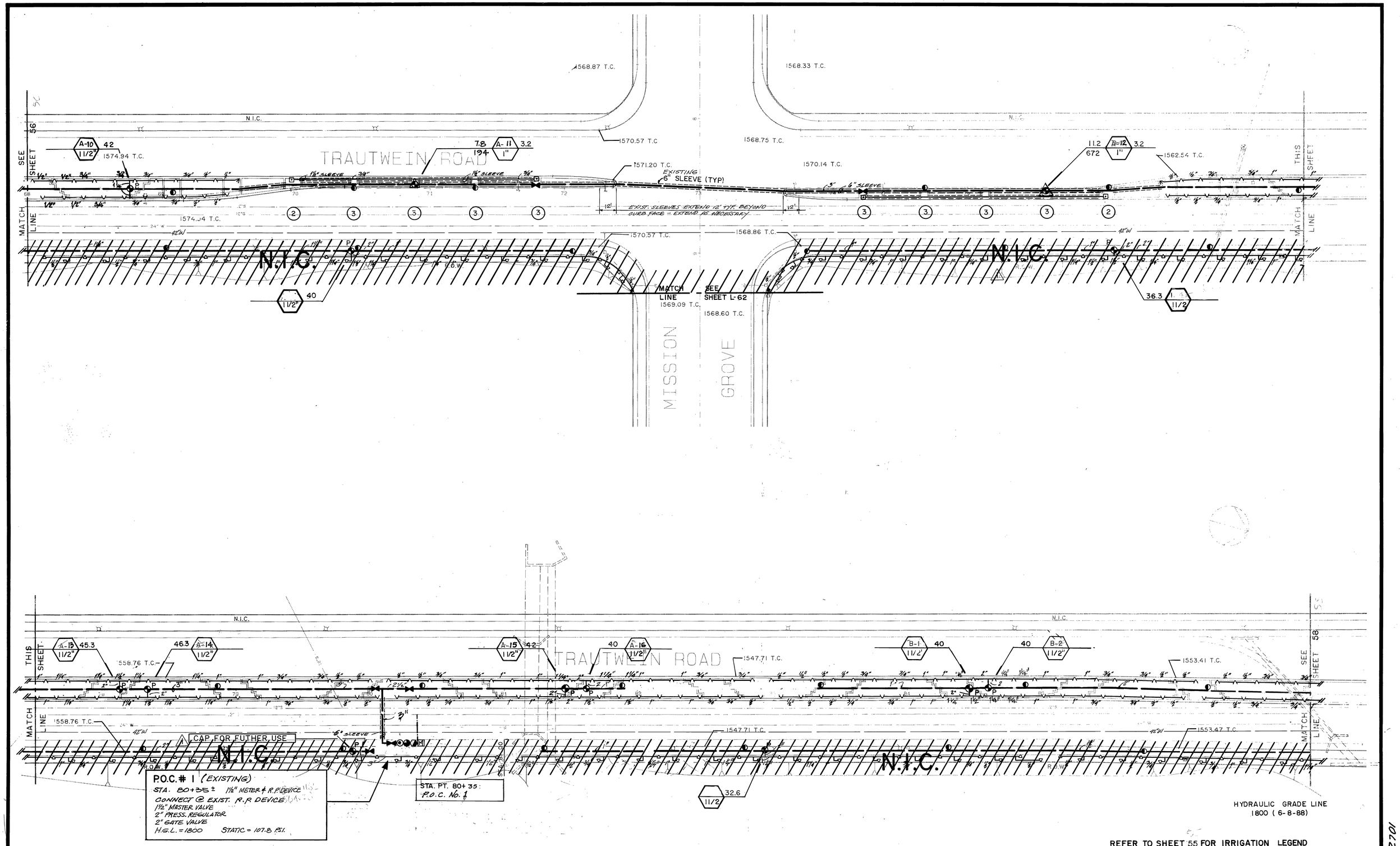
CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN
TRAUTWEIN ROAD
STA. 47+00. TO STA. 68+00

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 56 OF 88
FILE NO.: 8710164

INDEXED 7/24-90 HI



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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 LANDSCAPE ARCHITECT
DAVID MOORE
No. 2651
EXP. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. _____
EXPIRATION DATE: _____ DATE: _____
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR	DATE
2	REVISED POC #1 / SIZING	AT	12/12/89
1	DELETED PARKWAY IRRIGATION (N.I.C.)	AT	12/12/89

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

APPROVED BY Barry Beal
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN
TRAUTWEIN ROAD

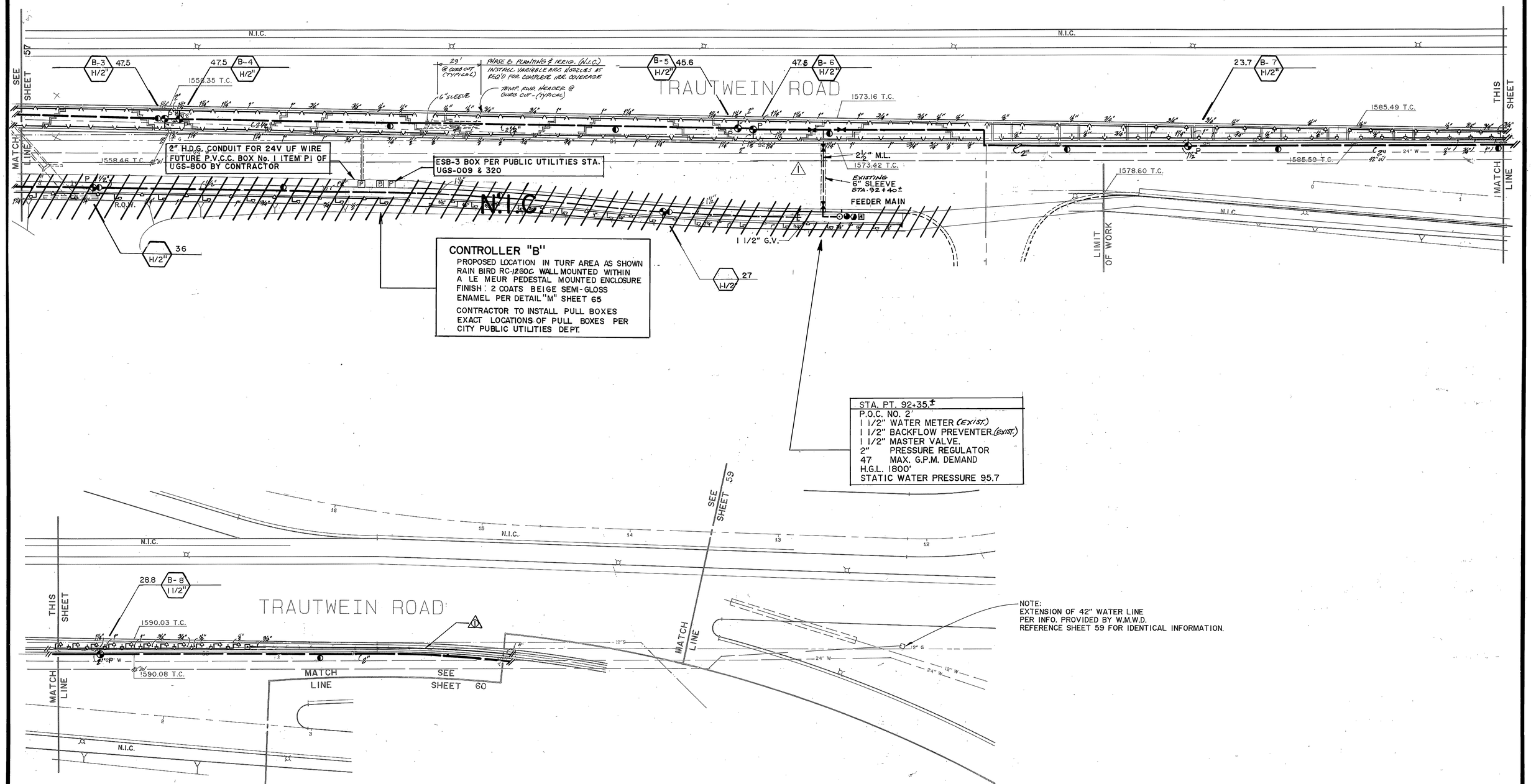
STA. 68+00 TO STA. 87+00

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 57 OF 88
FILE NO.: 8710164

PC 2701

INDEXED 7-24-90 JH



HYDRAULIC GRADE LINE
1800 (6-8-88)

REFER TO SHEET 55 FOR IRRIGATION LEGEND

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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 LANDSCAPE ARCHITECT
WM. J. DAVIDSON
No. 2351
Exp. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK:

MARK	REVISIONS	APPR.	DATE
2	ADDED REDWOOD HEADER / SIZING	MM	1/21/90
1	DELETED PARKWAY IRRIGATION (N.I.C.)	MM	6/22/90

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT	MM	12/6/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

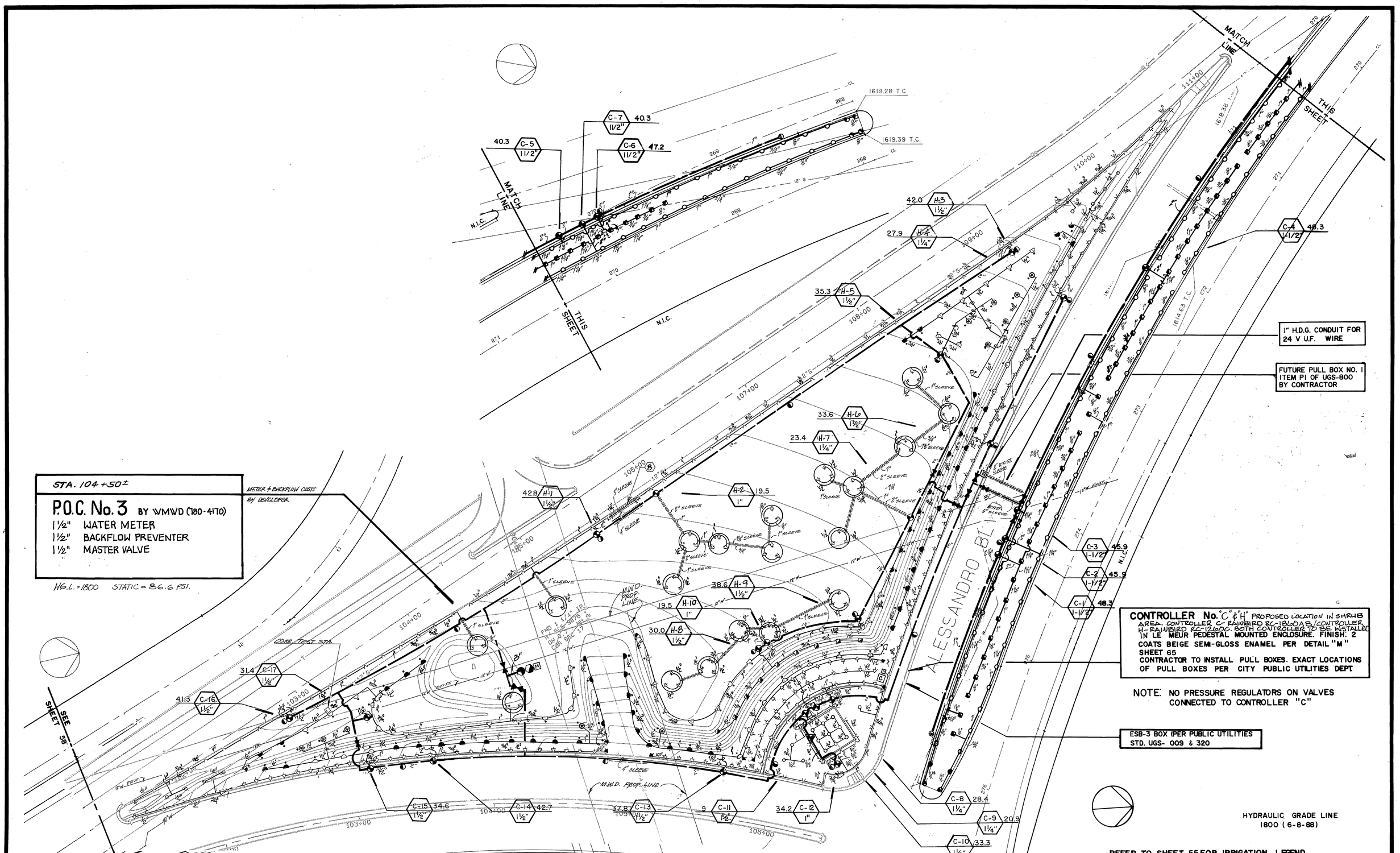
IRRIGATION PLAN
TRAUTWEIN ROAD
STA. 87+00. TO STA. 100+00.

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 58 OF 88
FILE NO.: 8710164

PC 2701

INDEXED 7-24-90 GH



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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 LANDSCAPE ARCHITECT
No. 2951
W. F. DAVIDSON
Exp. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F.D. J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 483, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5864
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5681, FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR.	DATE
3	REVISED P.O.C. #3		1/21/94

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/20/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

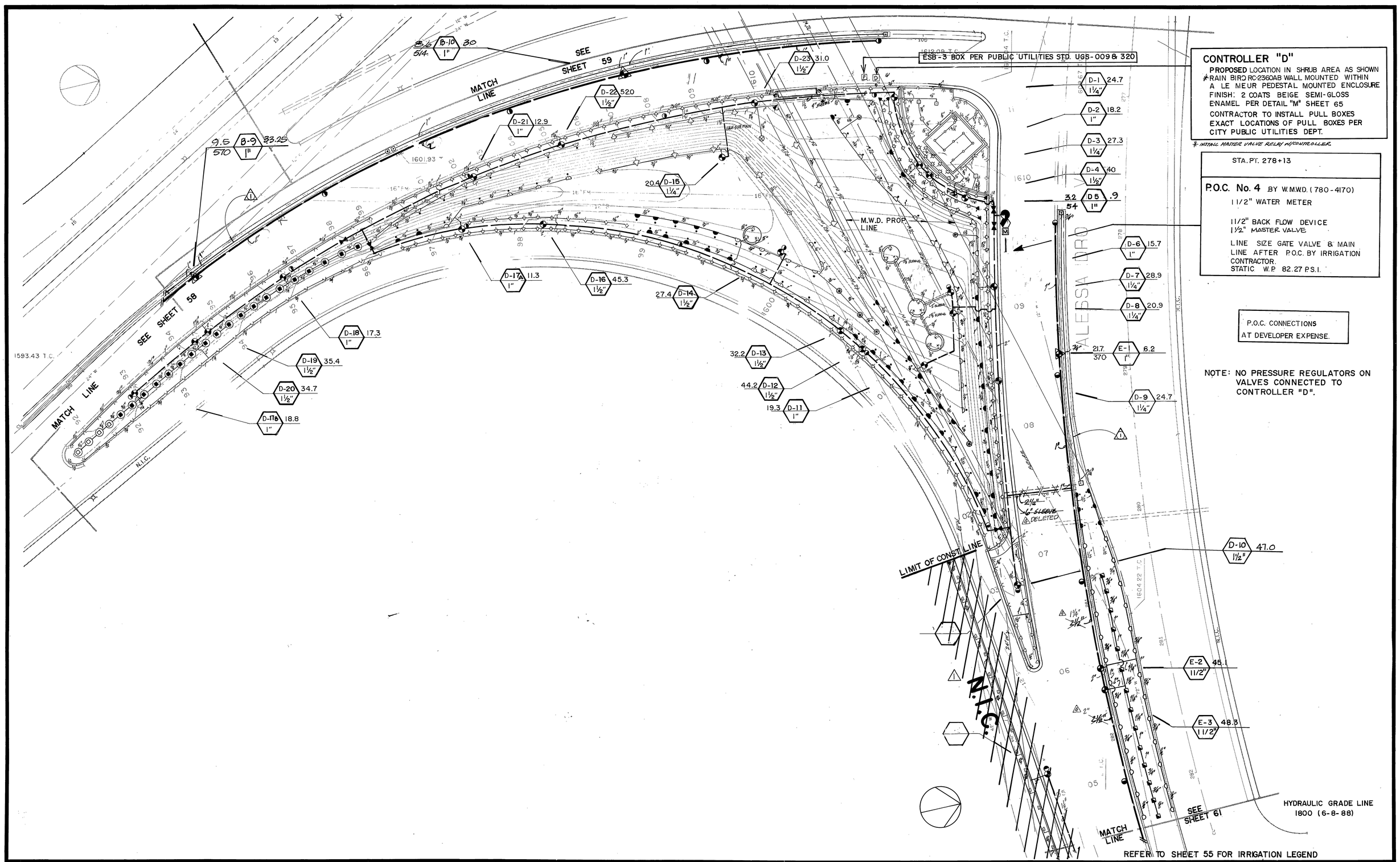
APPROVED BY Barry Paul
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
IRRIGATION PLAN
ALESANDRO BOULEVARD
STA. 270+50 TO STA. 276+75
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 59 OF 88
FILE NO.: 8710164

PC 2701

INDEXED 7-25-90



CONTROLLER "D"

PROPOSED LOCATION IN SHRUB AREA AS SHOWN
*RAIN BIRD RC-2360AB WALL MOUNTED WITHIN A LE MEUR PEDESTAL MOUNTED ENCLOSURE
FINISH: 2 COATS BEIGE SEMI-GLOSS ENAMEL PER DETAIL "M" SHEET 65
CONTRACTOR TO INSTALL PULL BOXES EXACT LOCATIONS OF PULL BOXES PER CITY PUBLIC UTILITIES DEPT.

* INSTALL MASTER VALVE RELAY W/CONTROLLER.

STA. PT. 278+13

P.O.C. No. 4 BY W.M.W.D. (780-4170)

1 1/2" WATER METER

1 1/2" BACK FLOW DEVICE
1 1/2" MASTER VALVE

LINE SIZE GATE VALVE & MAIN LINE AFTER P.O.C. BY IRRIGATION CONTRACTOR.
STATIC W.P. 82.27 P.S.I.

P.O.C. CONNECTIONS AT DEVELOPER EXPENSE.

NOTE: NO PRESSURE REGULATORS ON VALVES CONNECTED TO CONTROLLER "D".

Underground Service Alert
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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 LANDSCAPE ARCHITECT
NANCY J. DAVIDSON
No. 2651
Exp. 12-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89

BENCH MARK:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300
P.O. Box 493
Riverside, CA 92502
(714) 686-0844
FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D"
Colton, CA 92324
(714) 825-1082

73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
4	REVISED IRR. IN MEDIAN @ ALESSANDRO		3/6/87
3	ADDED SLEEVING / MAIN @ ALESSANDRO		11/21/84
1	DELETED PARKWAY IRRIGATION (N.I.C.)		1/12/90

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN
ALESANDRO BOULEVARD

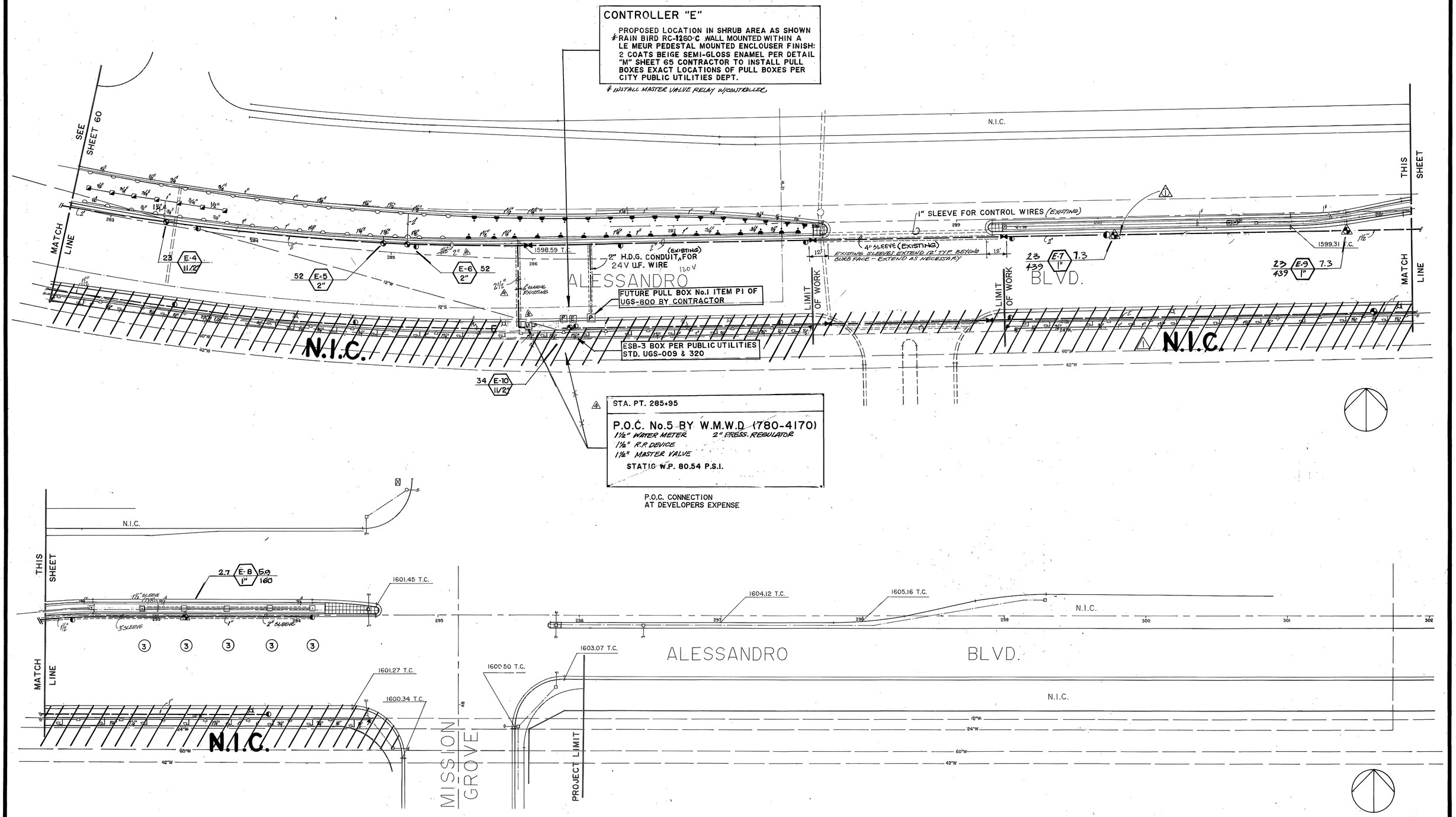
STA. 276+50 TO STA. 282+70

HORIZ. SCALE: 1" 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 60 OF 88
FILE NO.: 8710164

INDEXED 7-24-90

PC 1017



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REGISTERED LANDSCAPE ARCHITECT
DAVID J. DAVIDSON
NO. 2651
EXP. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 688-0844, FAX 714-688-5954
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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR.	DATE
3	RE ADD P.O.C. Nos & REVISE IRR. @ MEDIAN		3/16/93
2	REVISED P.O.C.		1/21/94
1	DELETED PARKWAY IRRIGATION (N.I.C.)		2/22/90

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		12-4-89
PARK DEPARTMENT		12/4/89
TRAFFIC DIVISION		12/5/89
CHIEF P. W. ENGR.		12/5/89

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN

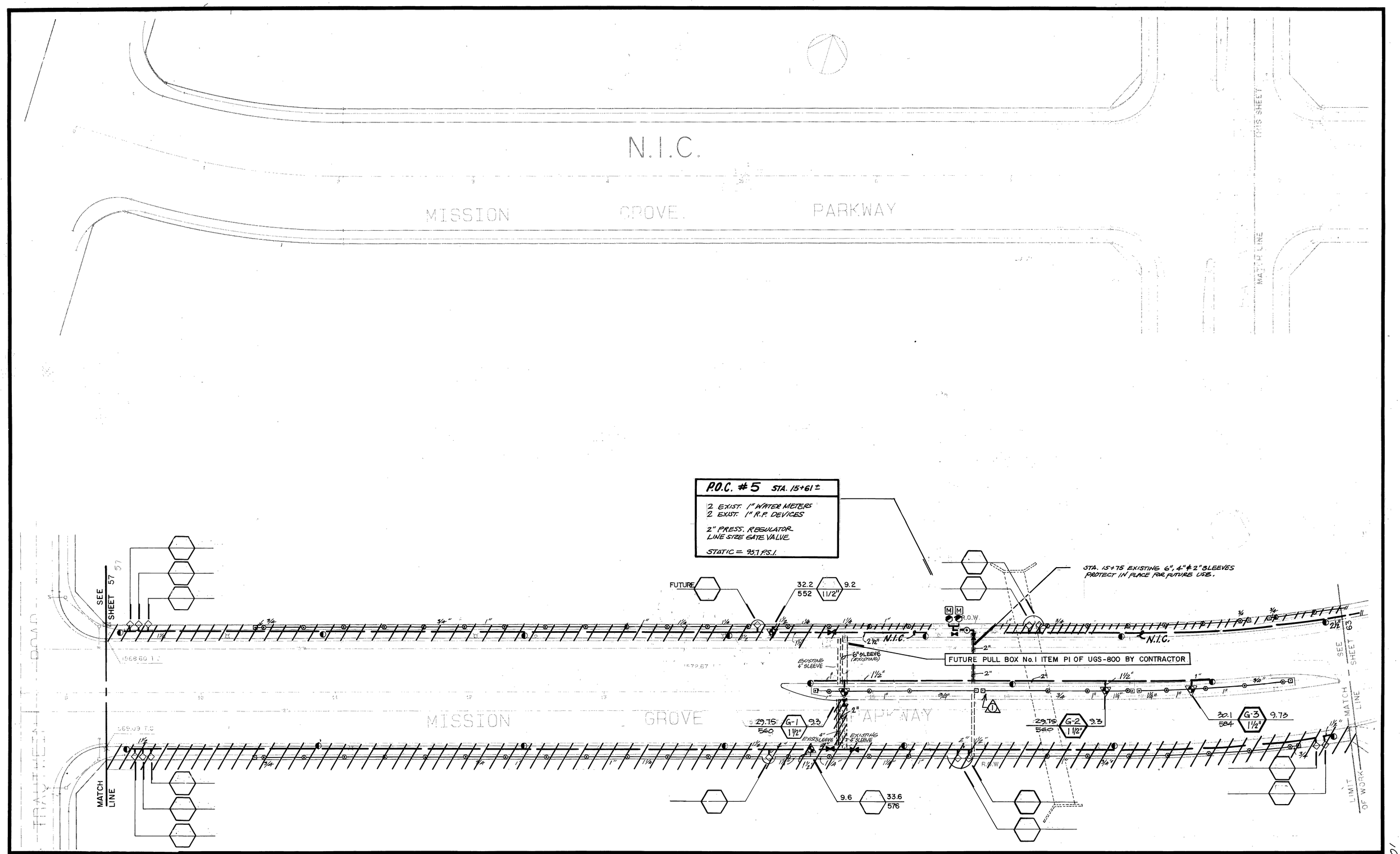
ALESSANDRO BOULEVARD

STA. 282+70 TO STA. 301+75

HORIZ SCALE: 1" 1"=30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 61 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 4H



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TWO WORKING DAYS BEFORE YOU DIG

PRIVATE ENGINEERING NOTE

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REGISTERED LANDSCAPE ARCHITECT — No. 2651 — Exp. 1-31-90 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____

EXPIRATION DATE: _____ DATE: _____

APPROVED BY:

SCALE: 1" = 30'

DATE: 11-17-89

BENCH MARK:

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR	DATE
A	REVISED MEDIAN / P.O.C.		1/21/94

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

APPROVED BY: Barry Paul, DIRECTOR OF PUBLIC WORKS

DATE 12/5/89

MR 12/19/89 RBK 12/12/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN

MISSION GROVE PKWY SO

STA. 9+30 TO STA. 18+55

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. **R-3056**

SHEET 62 OF 88

FILE NO.: 8710164

PC 2701

INDEXED 7-24-90

ESB-3 BOX PER PUBLIC UTILITIES STD.-UGS-000 & 320

2" H.D.G. CONDUIT FOR 24V UF WIRE

FUTURE PULL BOX No.1 ITEM P1 OF UGS-800 BY CONTR.

CONTROLLER "G"

PROPOSED LOCATION IN TURF AREA AS SHOWN
RAIN BIRD RC-1260-C WALL MOUNTED WITHIN
A LE MEUR PEDESTAL MOUNTED ENCLOSURE
FINISH . 2 COATS BEIGE SEMI-GLOSS
ENAMEL PER DETAIL "M" SHEET 65

CONTRACTOR TO INSTALL PULL BOXES
EXACT LOCATIONS OF PULL BOXES PER
CITY PUBLIC UTILITIES DEPT.

FUTURE

40.6 2436 11.6 1 1/2"

SEE SHEET 62

MATCH LINE

1578.04 T.C.

LIMIT OF WORK

MISSION GROVE PARKWAY

1579.55 T.C.

1584.42 T.C.

EXISTING 4" SLEEVE

2" H.D.G. CONDUIT FOR 24V WIRE (TYP) EXISTING

1584.43 T.C.

1583.29 T.C.

41.3 180 G.4 13.0 11/2"

R.O.W.

1582.43 T.C.

FUTURE

FUTURE

THIS SHEET

MATCH LINE

STA. 30+89 ±

P.O.C. No. 6

2-EXIST. WATER METERS (1")
2-EXIST. R.P. DEVICES (1")
1-1½" MASTER VALVE
1-2" PRESS. REGULATOR
STATIC W.P. 95.53 P.S.I.

FUTURE PULL BOX No.1 ITEM P1 OF UGS-800 BY CONTR.

SEE SHEET 64

MATCH LINE

THIS SHEET

1581.45 T.C.

9.16 G.5 28.7 1" 550

9.16 G.6 28.7 1" 550

EXISTING 4" SLEEVE

EXIST. 2" H.D.G. SLEEVE

7.56 G.7 25.9 1" 454

N.T.S.

9.16 G.8 28.7 1" 550

1580.10 T.C.

EXIST. 4" SLEEVE PROTECT IN PLACE

STA. 31+00 ±
EXIST. 6" & 4" SLEEVES RT & LT.
PROTECT IN PLACE FOR FUTURE USE

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422-4133
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REGISTERED LANDSCAPE ARCHITECT
WILLIAM CATHCART
No. 2651
Exp. 1-31-92
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____

EXPIRATION DATE: _____ DATE: _____

APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

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Riverside, CA 92502
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(714) 825-1082

73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

SCALE: 1" = 30'

DATE: 11-17-89

BENCH MARK:

MARK	REVISIONS	APPR.	DATE
2	REVISED P.O.C.	MM	1/21/94
1	DELETED 4" SLEEVE FOR ELECTRICAL	MM	2/22/90

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/20/89
TRAFFIC DIVISION		12/20/89
CHIEF P.W. ENGR.		12/21/89

APPROVED BY Barry Red
DIRECTOR OF PUBLIC WORKS

DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION PLAN
MISSION GROVE PKWY SO
STA. 18+55. TO STA. 35+00.

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

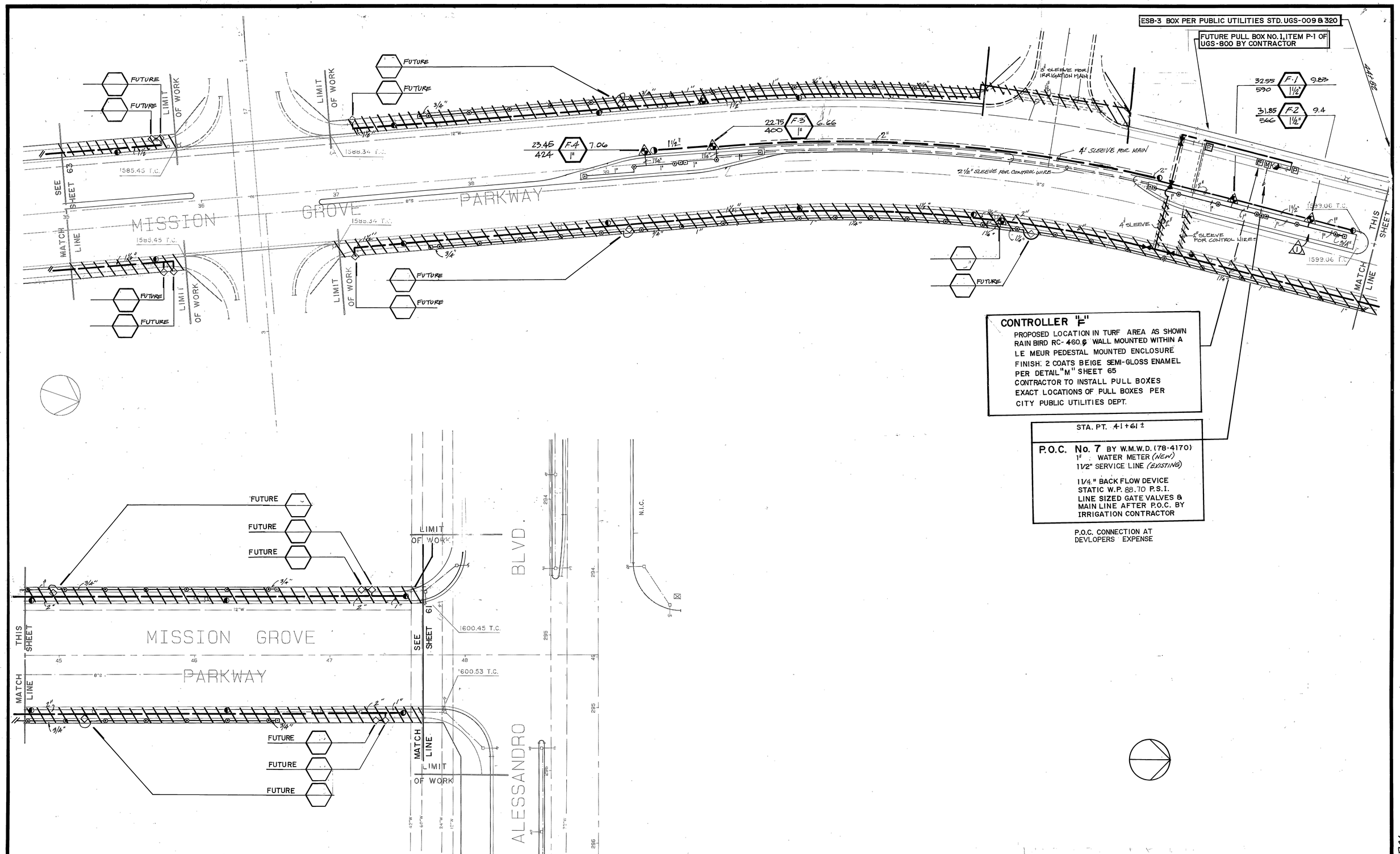
PROJECT NO. R-3056

SHEET 63 OF 88

FILE NO.: 8710164

PC 2701

INDEXED 7-24-90 yrll



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REGISTERED LANDSCAPE ARCHITECT 2861 12/19/89 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0944, FAX 714-686-5954
11200 S.F. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-[illegible]82
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK:

MARK	REVISIONS	APPR.	DATE
A	ADDED MEDIAN		1/21/94

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

APPROVED BY: Barry Bell, DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

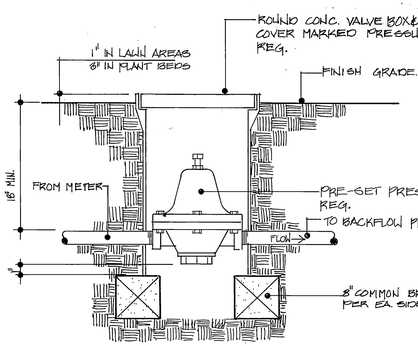
WLE 12/19/89 KEK 12/12/89

CFD 81-1 IMPROVEMENT AREA No. 1
IRRIGATION PLAN
MISSION GROVE PKWY SO
STA. 35+00. TO STA. 47+69.
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

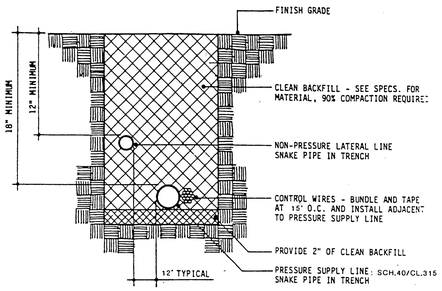
PROJECT NO. R-3056
SHEET 64 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 4H

PC 2701



P PRESSURE REGULATOR

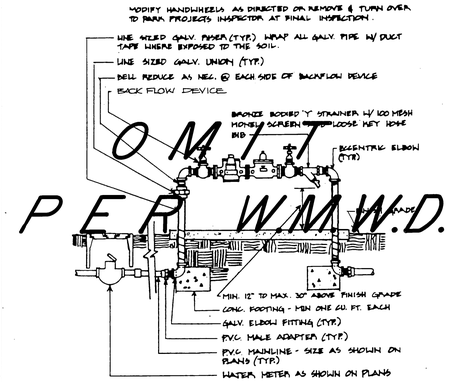


NOTE:

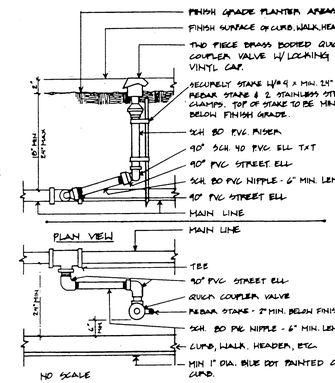
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90° CHANGES IN DIRECTION.

J TYPICAL TRENCHING

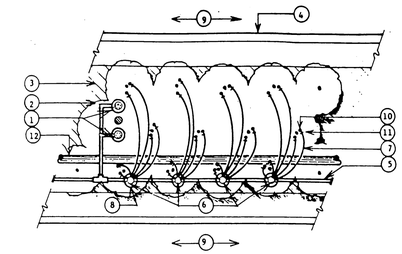
TO BE FURNISHED BY W.M.W.D. AS PART OF METER INSTALLATION



I BACK FLOW DEVICE BY W.M.WD
AT DEVELOPER EXPENSE DETAIL NO. 4011

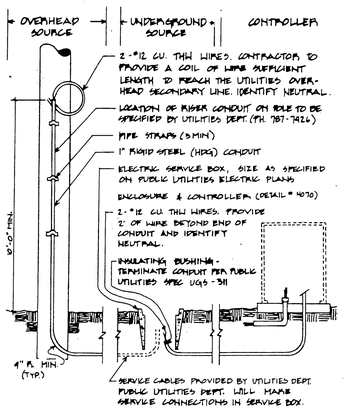


D QUICK COUPLER
DETAIL NO. 4050

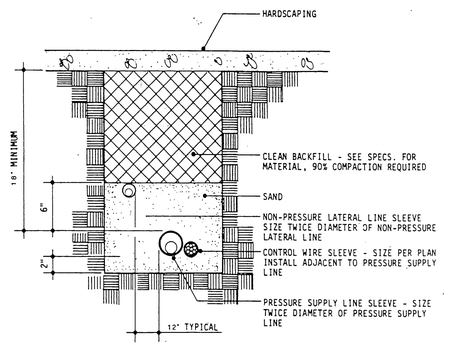


1. TREE WELL EMITTER - 24" FROM TRUNK - REFER TO DETAIL NO. E
2. SHRUBS @ 36" ON CENTER
3. 2" THICK CHIPPER MULCH COVER
4. CONCRETE CURB
5. CLASS 200 PVC LATERAL LINE (12" MIN. COVER)
6. EMITTER OUTLET: SALCO PC6-1 (6 OUTLETS @ 1 GPH EACH) - 2 PER SHRUB
7. DISTRIBUTION TUBING: SALCO CT-125-PLACE UNDER MULCH BUT ON FINISH GRADE. TWO PER SHRUB (5FT MAX LENGTH ONLY)
8. ACCESS SLEEVE
9. A.C. PAVING
10. SALCO EOCV-125 EMITTER OUTLET CHECK VALVE
11. SALCO DTS-20-400 PLASTIC TUBE STAKE
12. MAINLINE - REFER TO TRENCHING DETAILS (18" MIN. COVER)

C SHRUB AND TREE WELL EMITTER INSTALLATION
N.T.S.



N UTILITY SERVICE
DETAIL NO. 4060

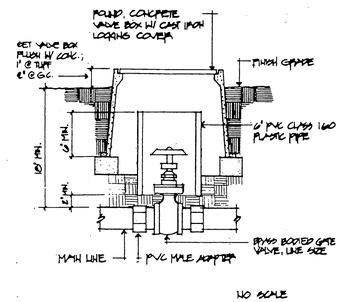


NOTE:

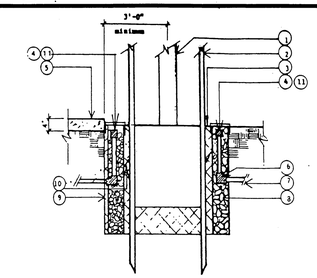
1. ALL SLEEVES TO BE SCH 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.

K TYPICAL SLEEVING

G-5 VANDAL PROOF BOX WITH CHRISTY C.I. LOCKING LID



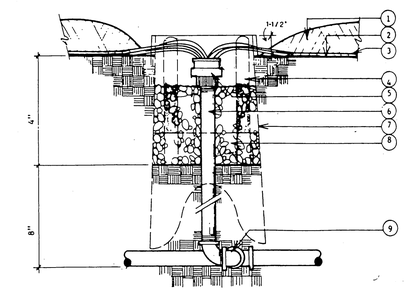
H GATE VALVE
DETAIL NO. 402



1. TREE TRUNK
2. 2" LODGEPOLE PINE STAKE (PER CITY STANDARD)
3. FINISH GRADE. 2" BELOW TOP OF WALK
4. EMITTER: SALCO PC6-2 WITH TORO 710-07 THREADED RISER FITTING OVER SCH. 80 1/2" X 1/2" RISER
5. EXISTING HARDSCAPE EDGE
6. MARLEX TRIPLE STREET ELL
7. SCH. 40 PVC LATERAL LINE
8. 6" DIAMETER X 36" LONG PERFORATED ABS DRAIN PIPE
9. TREE PLANTING PIT PER CITY STANDARDS
10. GRO-POWER PLANT TABLETS PER MANUFACTURER'S RECOMMENDATIONS
11. 12 GPH EMITTER CONTROLLER PROGRAM: TWICE PER DAY MINIMUM

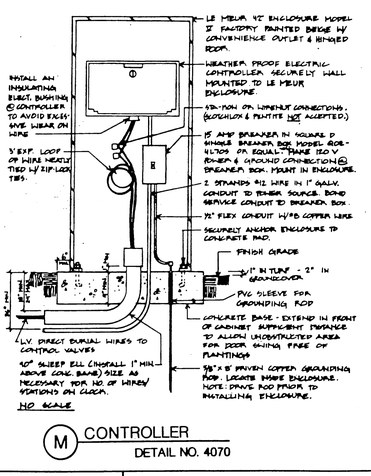
NOTE: PLUG 2 OUTLETS EACH FOR FIRST YEAR. UNPLUG OUTLETS AT END OF 360 DAY MAINTENANCE PERIOD.

E STREET TREE WELL EMITTER (INCLUDING PALMS)

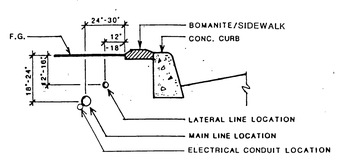


1. 2" THICK SHREDDED CHIPPER MULCH COVER
2. FINISH GRADE
3. SALCO CT-125 EMITTER DIST. TUBING (TWO PER SHURB)
4. ACCESS OPENING FOR TUBES WITH EOCV-125 OUTLET CHECK VALVE AT ENDS.
5. SALCO PC6-1 MULTI-OUTLET EMITTER WITH TORO 710-07 THREADED ADAPTER FOR 1/2" DIAMETER SCH. 80 NIPPLE
6. 1/2" DIAMETER SCH. 80 NIPPLE - 8" MIN.
7. SALCO DAS-8 ACCESS SLEEVE, SET LID 1" ABOVE FINISH GRADE
8. GRAVEL 3/4" WASHED AGGREGATE - OMIT
9. TRIPLE STREET ELL (TYP.)

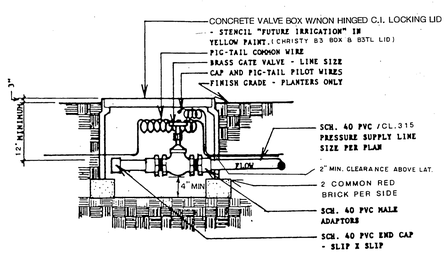
B SALCO PC6-1 EMITTER WITH ACCESS SLEEVE
N.T.S. (PC6-2) " " " "



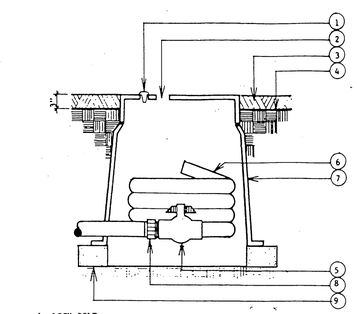
M CONTROLLER
DETAIL NO. 4070



L MAIN LINE/LATERAL LINE LOCATIONS
N.T.S.



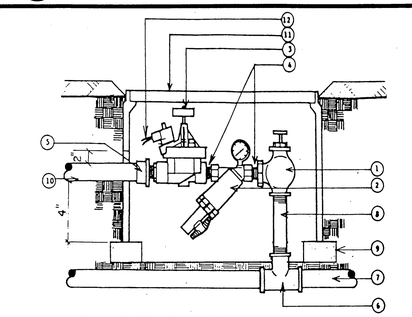
G TYPICAL STUB-OUT FOR RCV CONNECTIONS



1. LOCK BOLT
2. LIFT HOLE
3. CHIPPER MULCH
4. FINISH GRADE
5. SALCO VHF-75 (T X S) 3/4" PVC BALL VALVE - SCREW TO END OF LATERAL LINE.
6. 3/4" X 36" DIAMETER ALGAE RESISTANT PVC FLEX HOSE - PIG TAILED
7. CARSON PLASTIC ROUND VALVE BOX OR EQUAL
8. PVC MALE ADAPTER - LINE SIZE X 3/4" (S X T)
9. (2)-21/2X31/2X51/2 COMMON RED BRICK PER SIDE

NOTE: FLUSH EVERY MONTH DURING 360 DAY MAINTENANCE PERIOD.

F BALL VALVE FOR EMITTER FLUSH BOX



1. BRASS ANGLE VALVE WITH UNION - SAME SIZE AS RCV
2. PVC WYE STRAINER WITH INTEGRAL BALL FLUSH VALVE AND DOWN STREAM PRESSURE GUAGE. SALCO DYSFG - PLAN SIZED*.
3. REMOTE CONTROL VALVE -RAIN BIRD PE SERIES - PLAN SIZED
4. SCH. 80 CLOSE NIPPLE - SAME SIZE AS RCV
5. NPT X SLIP. FITTING - SOLVENT WELD
6. SCH. 40 PVC S X S X T TEE
7. PRESSURE SUPPLY LINE
8. SCH. 80 PVC NIPPLE - SAME SIZE AS RCV
9. (2)-21/2X31/2X51/2X5/2 COMMON RED BRICK PER SIDE
10. 3/4" OR 1" CLASS 200 PVC LATERAL LINE (12" CLEARANCE BETWEEN PIPE & BOX
11. CONCRETE VALVE BOX AND LOCKING COVER MARKED: "IRRIGATION CONTROL VALVE" CHRISTY BOX AND LID
12. SOLENOID WIRES. PIG-TAIL EACH 36" LONG

* ADJUST - IN FIELD PER CITY APPROVAL.

A REMOTE CONTROL VALVE FOR DRIP IRRIGATION

PC 2701

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TWO WORKING DAYS BEFORE YOU DIG.

PRIVATE ENGINEERING NOTE

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REGISTERED LANDSCAPE ARCHITECT — DAVIDSON — No. 2651 — Exp. 1-31-90 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: _____
REGISTERED CIVIL ENGINEER NO _____
EXPIRATION DATE _____ DATE _____
APPROVED BY _____

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
☐ P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
☐ 11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
☐ 73-080 EL PASEO. #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

AS SHOWN
DATE 11-17-89
BENCH MARK

MARK	REVISIONS	APPR	DATE

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

	BY	DATE
APPROVED BY		
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P W ENGR		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

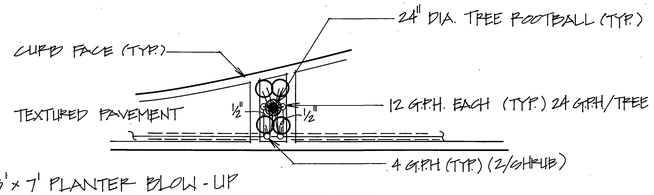
WLC 12/19/89 RJE 12/12/89

CFD 86-1 IMPROVEMENT AREA No. 1
IRRIGATION DETAILS

HORIZ SCALE: 1" VERT. SCALE: 1"

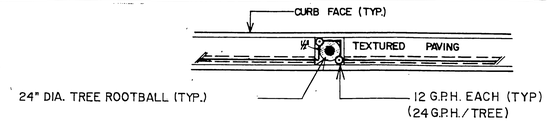
PROJECT NO. R-3056
SHEET 65 OF 88
FILE NO. 8710164

INDEXED 7-24-90 (4)



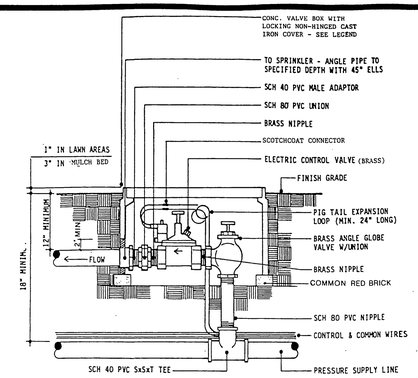
6 3'x 7' PLANTER BLOW-UP
SCALE: 1/8" = 1'-0"

TOTAL G.P.H. = 32
(FLUSHING MODE 1.9 G.P.M)



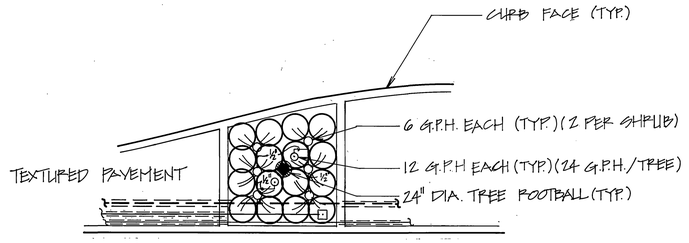
4 3'X3' NOSE TREE PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"

TOTAL G.P.H. = 24
(FLUSHING MODE: 1.4 GPM)



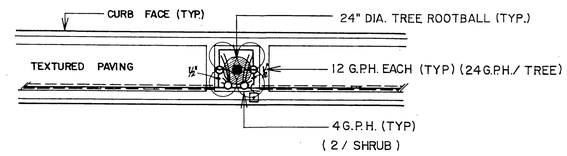
NOTE:
1. INSTALL CONTROL VALVES A MINIMUM OF 12" FROM STRUCTURES OR HARDSCAPING.
2. INSTALL VALVES IN PLANT BEDS WHEREVER POSSIBLE NEXT TO SIDEWALKS.
3. PLACE VALVE BOX AT RIGHT ANGLES TO STRUCTURES OR HARDSCAPING.
4. PLACE (2) COMMON RED BRICK AT EACH SIDE. (2-1/2 X 3-1/2 X 5-1/2).
5. ATTACH "CHRISTY" VALVE IDENTIFICATION TAG WITH APPROPRIATE CONTROLLER AND VALVE NUMBER, TO CONTROL WIRE.

R REMOTE CONTROL VALVE WITH SHUT-OFF VALVE & UNION
N.T.S.



7 12'x 12' PLANTER BLOW-UP
SCALE: 1/8" = 1'-0"

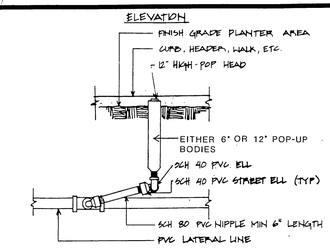
TOTAL G.P.H. = 56
(FLUSHING MODE)



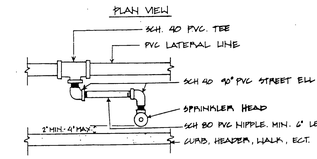
3 5'X5' PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"

TOTAL G.P.H. = 32
(FLUSHING MODE: 1.9 GPM)

ELEVATION

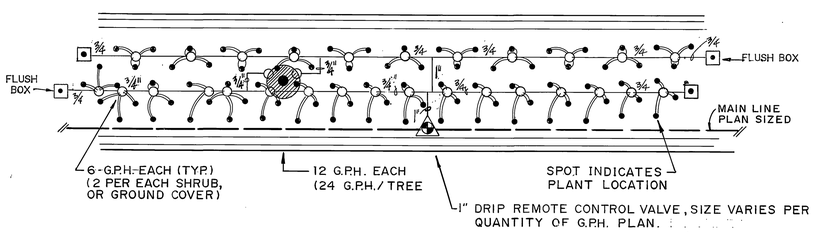


PLAN VIEW



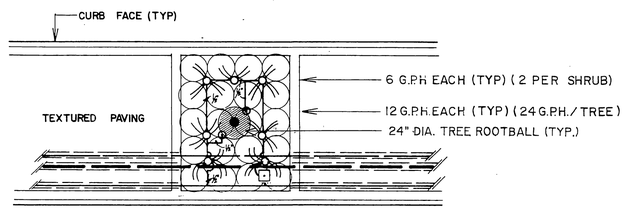
NO SCALE

Q 6" OR 12" POP-UP SPRAY
N.T.S.



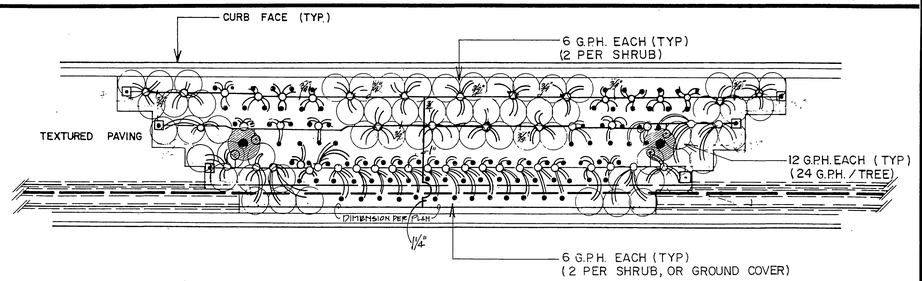
1 MEDIAN PLANTER BLOW-UP (TYP.)
SCALE: 1/4" = 1'-0"

TOTAL G.P.H. = 192, GPM=3.2
(FLUSHING MODE = 10.5 G.P.M)



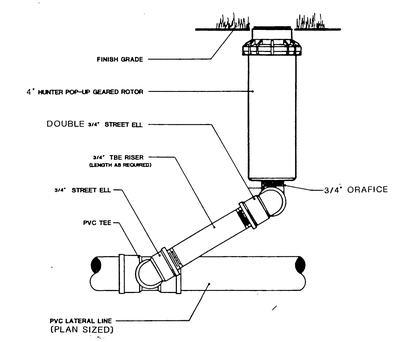
2 12'X15' PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"

TOTAL G.P.H. = 64
(FLUSHING MODE: 3.75 GPM)



1 STEPPED PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"

TOTAL G.P.H. = 366
(FLUSHING MODE: 19.9 GPM)



P HUNTER "P" or "I" SERIES INSTALLATION DETAIL
N.T.S.

PC-2701-M1

PC 2701-M1

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REGISTERED LANDSCAPE ARCHITECT
JAMES V. DAVIDSON
No. 2651
Exp. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-695 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619 340-0529

SCALE: AS SHOWN
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE
2	PLANTER DETAILS 6&7	RD	5/26/89
1	REVISED FLUSH MODES		1/21/94

DESIGNED BY AT DRAWN BY MM CHECKED BY AT

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

IRRIGATION DETAILS & ENLARGED PLANS

HORIZ. SCALE: 1" VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 66 OF 88
FILE NO. 8710164

LWC 12/12/89 RER 12/12/89

INDEXED 7-24-90

TEXTURED PAVING NOTES

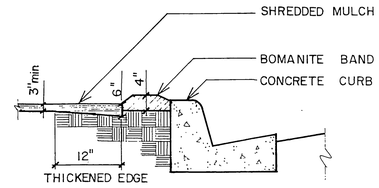
1. ISLAND NOSES AND MEDIAN BANDS: 4" THICK SLAB ON GRADE, 3,000 PSI DESIGN MIX.
   STAMP - LOW PROFILE/LOW WAFFLE BOMANITE 12"X12" TILE PATTERN OR APPROVED EQUAL, REFER TO BULLETIN 309.
   COLOR - NO. C-22, CORAL RED CHROMIX ADMIXTURE BY L.M. SCOFIELD
   TEXTURE - FINE BROOM FINISH, VERTICAL TO STREET.

2. STEPPED MEDIAN AREAS: 4" THICK SLAB ON GRADE, 3,000 PSI DESIGN MIX.
   STAMP - ASHLAR SLATE COMACRON PATTERN BY BOMANITE, OR AN APPROVED EQUAL. REFER TO BULLETIN 405.
   COLOR - NO. C-14, FRENCH GREY CHROMIX ADMIXTURE BY L.M. SCOFIELD.
   TEXTURE - ASHLAR SLATE BOMACRON.

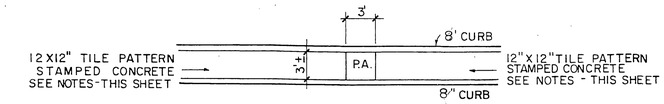
3. CONTROL JOINTS: BETWEEN BOMANITE BAND AND BOMACRON ASHLAR SLATE PATTERN SHALL BE A COLD JOINT. BETWEEEN BOMANITE BAND AND BACK OF CURB SHALL BE A COLD JOINT.

4. INSTALLATION PROCESS: BOMANITE TEXTURED PAVING, OR APPROVED EQUAL - REFER TO BULLETIN 308.

5. ALL SUB-GRADE BELOW STAMPED CONCRETE, TEXTURED BANDS AND MOW CURBS SHALL BE COMPACTED TO 95% (SUBJECT TO INSPECTION AND TESTNG BY THE TESTING BY THE ENGINEER).

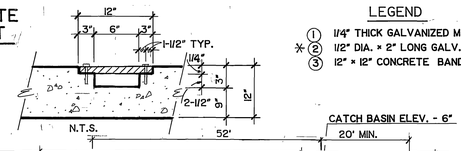


6 TEXTURED CONC. BAND SECTION (TYP)
N.T.S.

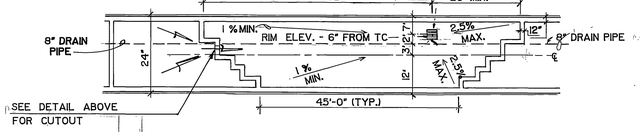


4 3'X3' NOSE PLANTER BLOW-UP(TYP.)
SCALE 1/8"=1'-0"

TYP. CONCRETE BAND CUTOUT

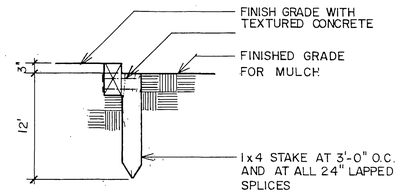


LEGEND
1. 1/4" THICK GALVANIZED METAL PLATE (12"x12" W/(4) 1/2" DIA. HOLES.
2. * 1/2" DIA. x 2" LONG GALV. CARRIAGE BOLTS W/2-1/2" SHIELDS (2 EA SIDE
3. 12" x 12" CONCRETE BAND.

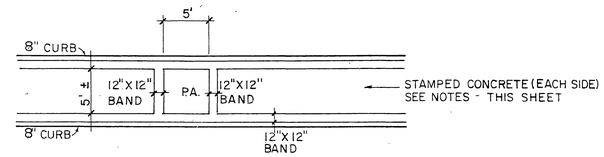


11 STEPPED PLANTER DRAINAGE
SCALE: 1/16" = 1' - 0"

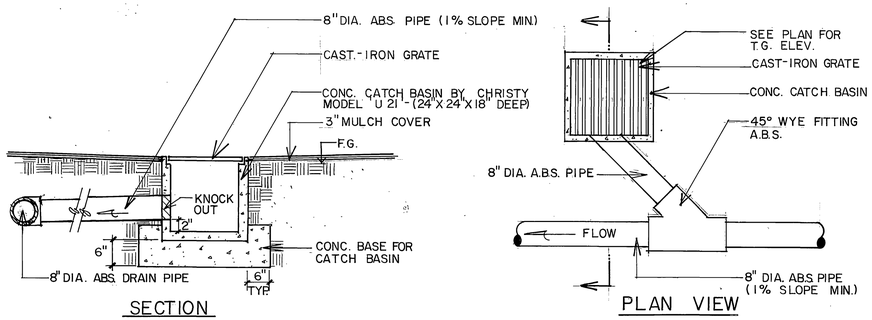
* RED-HEADS OR EQUAL



7 REDWOOD HEADERBOARD
N.T.S.

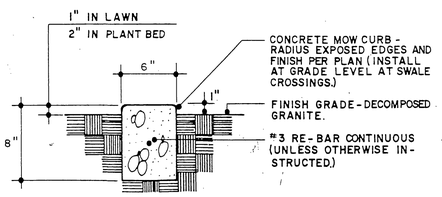


3 5'X5' PLANTER BLOW - UP (TYP.)
SCALE 1/8"= 1'-0"

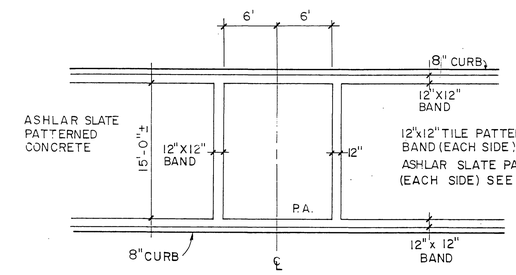


10 CATCH BASIN
N.T.S.

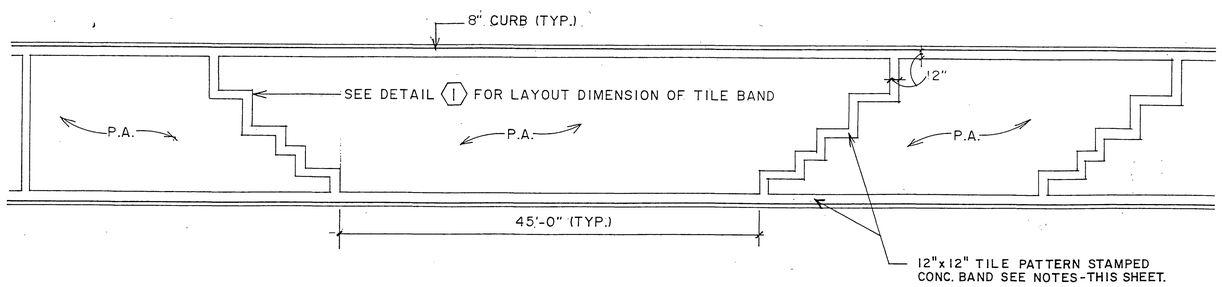
NOTE:
1. PROVIDE SCORE JOINTS AT 10'-0" O.C. AND 3/8" BITUMINOUS FELT EXPANSION JOINTS AT 20'-0" O.C.



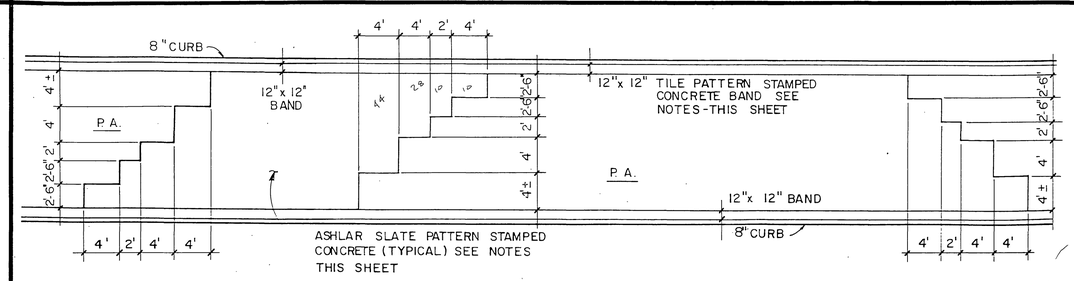
8 CONCRETE MOW CURB
N.T.S.



2 12'X15' PLANTER BLOW-UP (TYP.)
SCALE 1/8"= 1'-0"



9 STEPPED PLANTER W/STAMPED CONC. BAND
SCALE: 1/8"=1'-0"



1 STEPPED PLANTER BLOW-UP(TYP.)
SCALE 1/8" =1'-0"

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REGISTERED LANDSCAPE ARCHITECT — DAVIDSON — NO. 2551 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE DATE:
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

SEE PLAN
DATE 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE

DESIGNED BY AT DRAWN BY ES CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P W ENGR		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION ENLARGED PLANS NOTES
HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO R-3056
SHEET 67 OF 88
FILE NO 8710154

INDEXED 7-24-90 4H

PLANTING NOTES:

1. PLANT AND IRRIGATION DESIGN IS DIAGRAMMATIC AND SHALL NOT TAKE PLACE WHERE UNFORESEEN SITE CONDITIONS PREVENT EXECUTION OF THE DESIGNERS INTENT.
2. CONTRACTOR SHALL CALL THE LANDSCAPE ARCHITECT'S ATTENTION TO SITE CONDITIONS WHICH PREVENT HIS INSTALLATION PER PLAN IN A REASONABLE MANNER.
3. CONTACTOR SHALL REMAIN LIABLE FOR REMOVING, RE-INSTALLING IRRIGATION SYSTEM, AND REPLANTING AREAS WHICH ARE NOT LANDSCAPED PER PLAN AND SPECIFICATIONS.
4. MAINTENANCE PERIOD SHALL BE 360 DAYS FROM DATE OF ACCEPTANCE. PLANTING SHALL BE GUARANTEED FOR ONE YEAR. MAINTENANCE SHALL INCLUDE BI-WEEKLY WEED AND RODENT ABATEMENT PROCEDURES INCLUDING 4 FOLIAR APPLICATIONS OF CHELATED IRON AND TRACE MINERALS 90 DAYS APART.
5. REPLACEMENT OF DAMAGED OR DESTROYED ITEMS SHALL TAKE PLACE WITHIN 48 HOURS OF NOTIFICATION BY THE CITY'S REPRESENTATIVE, OR SAID REPLACEMENT ITEMS SHALL BE DEDUCTED FROM THE CONTRACTOR'S FINAL BILLING.
6. REPLACEMENT ITEMS SHALL BE EXACT DUPLICATE OF ORIGINAL WORK OR PLANTS, UNLESS OTHERWISE APPROVED BY THE LANDSCAPE ARCHITECT OR CITY'S REPRESENTATIVE.
7. TREES AND SHRUBS SHALL BE PLANTED AFTER CONCRETE PLACEMENT, BUT NOT BEFORE IRRIGATION COVERAGE TEST NO. 1 HAS BEEN APPROVED.
8. PLACE TREES BETWEEN SPRAY HEADS WHEREVER POSSIBLE.
9. AREAS TO BE PLANTED IN GROUND COVER SHALL HAVE THE FOLLOWING MATERIALS TILLED INTO THE TOP 6" OF SOIL PER 1,000 SQ. FT.:

   4 CU. YDS. NITROLIZED WOOD SHAVINGS
   20 LBS. 12-12-12 COMMERCIAL FERTILIZER (BEST PRODUCTS OR EQUAL)
   100 LBS. AG. GYPSUM
   10 LBS. SOIL SULFUR
   20 LBS. IRON SULFATE

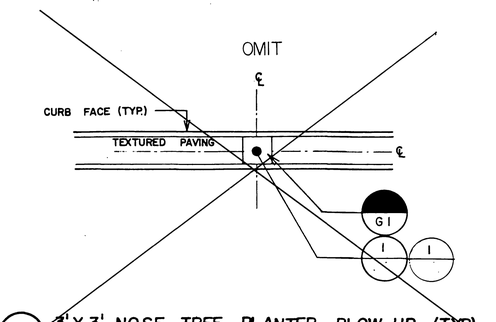
   PRIOR TO PLANTING OF GROUND COVER FLATS, A GRANULAR PRE-EMERGENT, NON-SELECTIVE HERBACIDE SHALL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
10. BACKFILL MIX SHALL CONSIST OF THE FOLLOWING PER CU. YD.:

    2/3 YD. SCREENED SITE SOIL
    1/3 YD. NITROLIZED WOOD SHAVINGS
    1 LB. 12-12-12 COMMERCIAL FERTILIZER
    10 LBS. AG. GYPSUM
    1 LB. SOIL SULFUR
    2 LBS. IRON SULFATE
11. IRRIGATION SYSTEM SHALL BE INSTALLED PRIOR TO PLANT MATERIALS.
12. CHIPPER MULCH INSTALLATION: COVER SHRUB AREAS ONLY WITH A 3" THICK PLACEMENT OF "MEDIUM GRIND" CHIPPER MULCH. AS PER BLUE RIBBON LANDSCAPE SUPPLIES, INC. (714-633-3666), OR EQUAL. SUBMIT SAMPLE TO THE LANDSCAPE ARCHITECT FOR APPROVAL BEFORE PURCHASING AND SPREADING.
13. REFER TO IRRIGATION NOTES FOR INSPECTION/CERTIFICATION SCHEDULE.
14. A SITE SHALL BE PRE-SELECTED BY THE OWNER FOR PLANT DELIVERY AND APPROVAL, FOR MIXING OF BACKFILL, AND STORAGE OF IRRIGATION EQUIPMENT IN CONTAINERS.
15. CLEAN-UP SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED BY THE OWNER'S REPRESENTATIVE.

PLANTING LEGEND

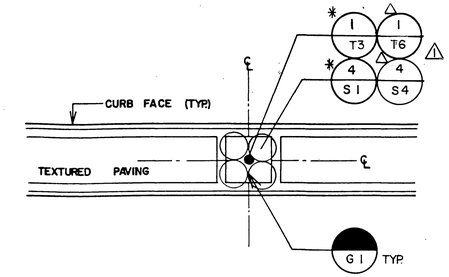
ITEM	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	COMMENT	DETAILS
TREES						
	T-1	CINNAMOMUM CAMPHORA	CAMPHOR TREE	15 GAL	ALESSANDRO	C, D
	T-2	CITRUS AURANTIUM	SOUR ORANGE	15 GAL		D, E
	T-3	LAGERSTROEMIA INDICA	CRAPE MYRTLE WHITE	36" BOX	TRAUTWEIN	C,D, E
	T-4	PINUS ELDARICA	MONDELL PINE	15 GAL	TRAUTWEIN	C,D, E
	T-5	WASHINGTONIA ROBUSTA	MEXICAN FAN PALM	20' HT. CLEAR TRUNK	MISSION GROVE PKWY.	D, G
	T-6	LAGERSTROEMIA INDICA	CRAPE MYRTLE PURPLE	36" BOX	ENTRY ISLAND & ALESSANDRO	3 GUYS PER TREE
	T-7	PLATANUS ACERIFOLIA	LONDON PLANE	15 GAL	ENTRY ISLAND & TRAUTWEIN	C, D, E
SHRUBS						
	S-1	RAPHIOLEPIS INDICA 'PINKIE'	DWARF INDIA HAWTHORN	5 GAL	36" O.C.	A, B, F
	S-2	PITTOSPORUM TOBIRA "WHEELERI"	DWARF MOCK ORANGE	5 GAL	36" O.C.	A, B, F
	S-3	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	1 GAL	24" O.C.	A, B, F
	S-4	TRACHELOSPERMUM JASMINOIDES	STAR JASMINE	5 GAL	24" O.C.	A, B, F
	S-5	TULBAGHIA VIOLACEA	SOCIETY GARLIC	1 GAL	18" O.C.	A, B, F
GROUND COVERS	G-1		MEDIUM GRIND SHREDDED MULCH		△1 2" THICK ALL PLANTERS - SOURCE: BLUE RIBBON LANDSCAPE PRODUCTS ORANGE, CALIF. (714) 633-3666	
	G-2	HYDROSEEDED TURF	"MARATHON" TM SEED		AVAILABLE FROM: SOUTHLAND SOD (1-800-532-3489)	
	G-3	LANTANA MONTEVIDENSIS	TRAILING LANTANA	1 GAL	48" O.C	A, B, F
	G-4	HYPERICUM CALYCINUM	CREEPING ST JOHNSWORT	1 GAL	24" O.C.	A, B, F

FOR HYDROSEED TURF.
APPLY 10 LBS OF "MARATHON" SEED PER 1,000 SQ.FT
APPLY 16-20-0 FERTILIZER OF 400 LBS. PER ACRE (UPON SOIL ANALYSIS)
APPLY 2,000 LBS/ACRE OF FIBER MULCH

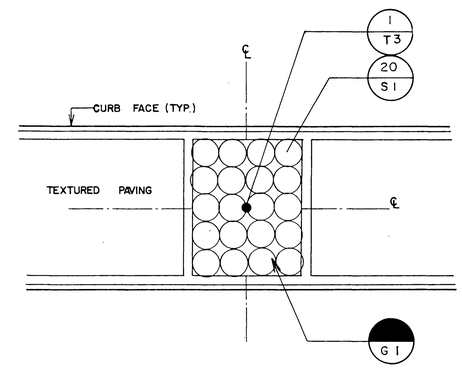


4 3'X3' NOSE TREE PLANTER BLOW-UP (TYP)
SCALE: 1/8" = 1'-0"

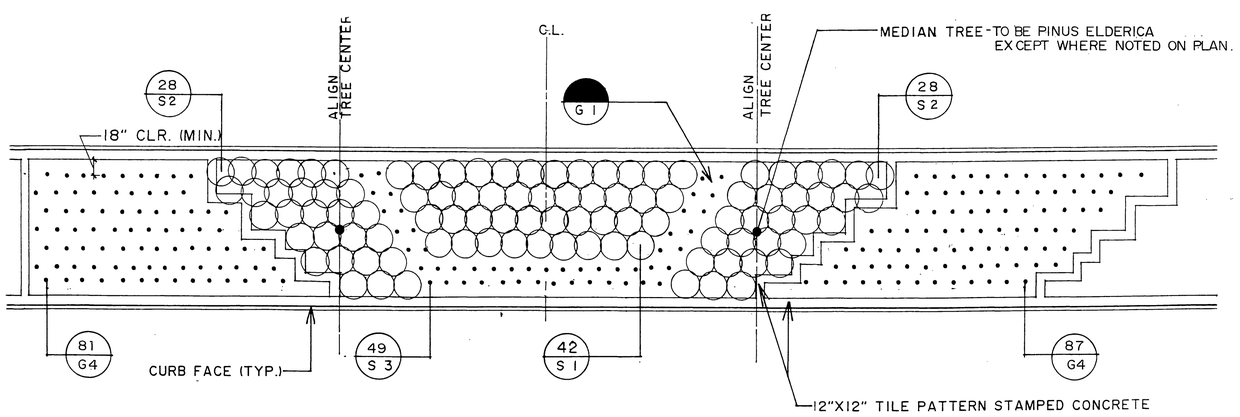
△ - ALESSANDRO BLD. ONLY
✱ - TRAUTWEIN ROAD



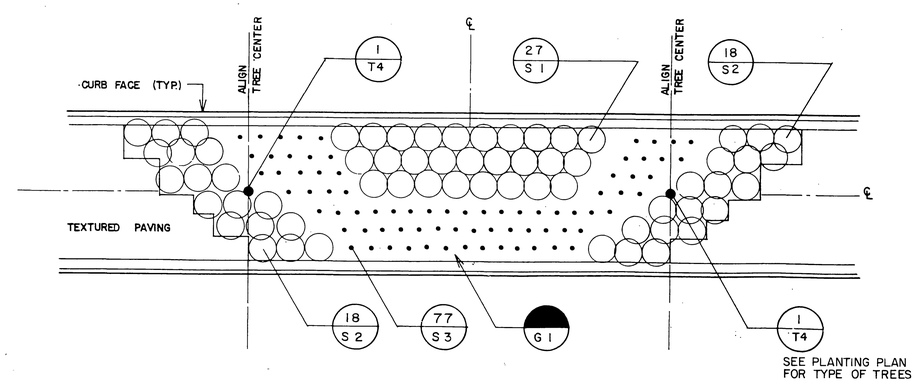
3 5'X5' PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"



2 12'X15' PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"



5 STEPPED PLANTER W/ CONC. BAND BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"



1 STEPPED PLANTER BLOW-UP (TYP.)
SCALE: 1/8" = 1'-0"

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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 LANDSCAPE ARCHITECT
JAMES A. DAVIDSON
No. 2651
Exp. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO. ____
EXPIRATION DATE ____ DATE ____
APPROVED BY:

J.F. DAVIDSON ASSOCIATES, INC.
CIVIL ENGINEERS • SURVEYORS • PLANNERS
P.O. BOX 493, RIVERSIDE, CA 92502, (714) 686-0844
11200 SO. MT. VERNON AVE. #D, COLTON, CA 92324, (714) 825-1082
73-080 EL PASEO, #103, PALM DESERT, CA 92260, (619) 346-5691
JFD ASSOCIATES

AS SHOWN
DATE 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR.	DATE
△1	CHANGED 2" TO 3" & T5 TO T6		12/12/89

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

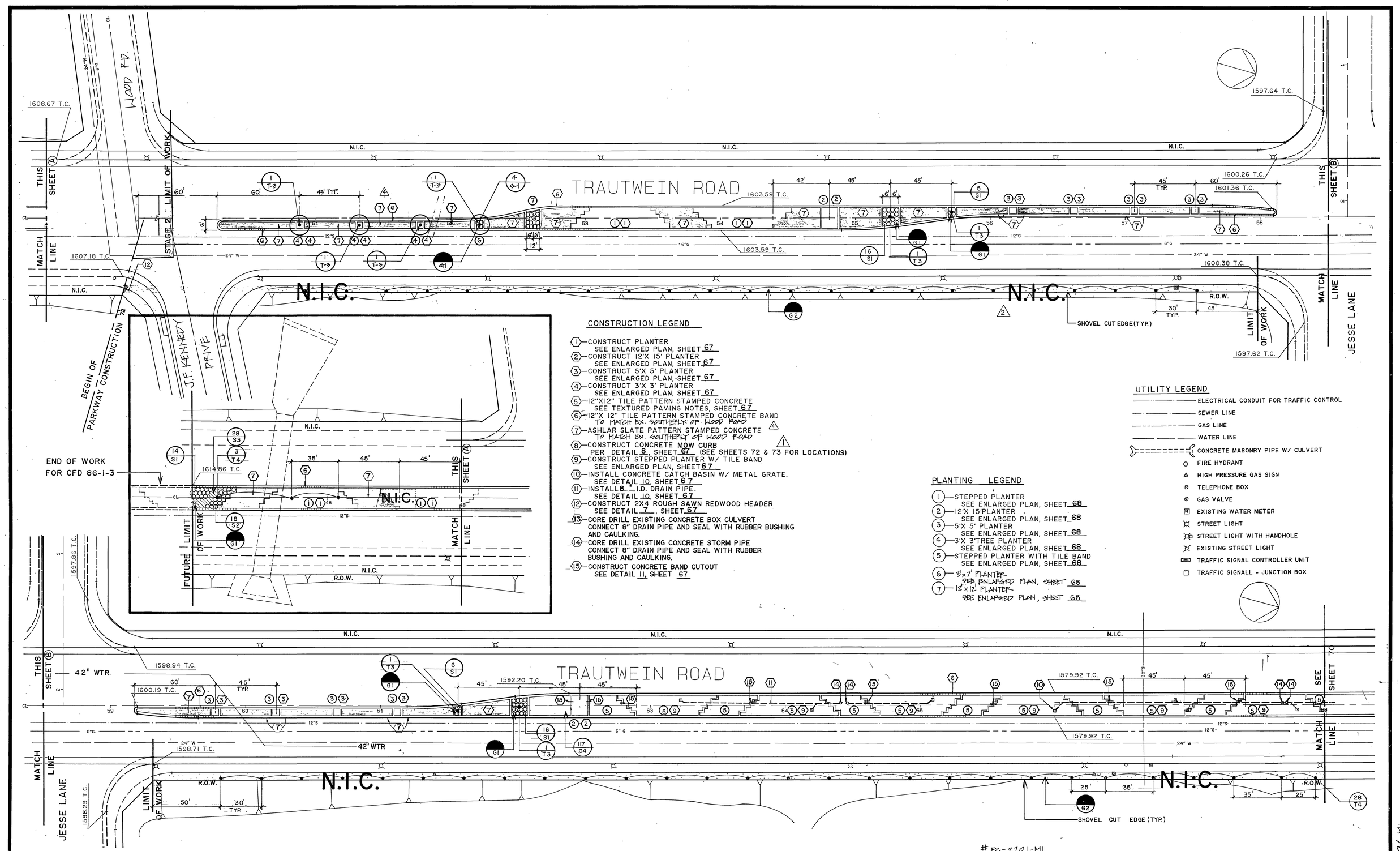
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
PLANTING LEGEND
ENLARGED PLANS
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 68 OF 88
FILE NO. 8710164

INDEXED 7-24-90 GH

PC 2701



CONSTRUCTION LEGEND

1. CONSTRUCT PLANTER SEE ENLARGED PLAN, SHEET 67
2. CONSTRUCT 12'X 15' PLANTER SEE ENLARGED PLAN, SHEET 67
3. CONSTRUCT 5'X 5' PLANTER SEE ENLARGED PLAN, SHEET 67
4. CONSTRUCT 3'X 3' PLANTER SEE ENLARGED PLAN, SHEET 67
5. 12"X12" TILE PATTERN STAMPED CONCRETE SEE TEXTURED PAVING NOTES, SHEET 67
6. 12"X 12" TILE PATTERN STAMPED CONCRETE BAND TO MATCH EX. SOUTHERLY OF WOOD ROAD
7. ASHLAR SLATE PATTERN STAMPED CONCRETE TO MATCH EX. SOUTHERLY OF WOOD ROAD
8. CONSTRUCT CONCRETE MOW CURB PER DETAIL 8, SHEET 67 (SEE SHEETS 72 & 73 FOR LOCATIONS)
9. CONSTRUCT STEPPED PLANTER W/ TILE BAND SEE ENLARGED PLAN, SHEET 67
10. INSTALL CONCRETE CATCH BASIN W/ METAL GRATE. SEE DETAIL 10, SHEET 67
11. INSTALL 8" I.D. DRAIN PIPE. SEE DETAIL 10, SHEET 67
12. CONSTRUCT 2X4 ROUGH SAWN REDWOOD HEADER SEE DETAIL 7, SHEET 67
13. CORE DRILL EXISTING CONCRETE BOX CULVERT CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
14. CORE DRILL EXISTING CONCRETE STORM PIPE CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
15. CONSTRUCT CONCRETE BAND CUTOUT SEE DETAIL 11, SHEET 67

PLANTING LEGEND

1. STEPPED PLANTER SEE ENLARGED PLAN, SHEET 68
2. 12'X 15'PLANTER SEE ENLARGED PLAN, SHEET 68
3. 5'X 5' PLANTER SEE ENLARGED PLAN, SHEET 68
4. 3'X 3'TREE PLANTER SEE ENLARGED PLAN, SHEET 68
5. STEPPED PLANTER WITH TILE BAND SEE ENLARGED PLAN, SHEET 68
6. 3'x7' PLANTER SEE ENLARGED PLAN, SHEET 68
7. 12'x12' PLANTER SEE ENLARGED PLAN, SHEET 68

UTILITY LEGEND

- ELECTRICAL CONDUIT FOR TRAFFIC CONTROL
- SEWER LINE
- GAS LINE
- WATER LINE
- CONCRETE MASONRY PIPE W/ CULVERT
- FIRE HYDRANT
- HIGH PRESSURE GAS SIGN
- TELEPHONE BOX
- GAS VALVE
- EXISTING WATER METER
- STREET LIGHT
- STREET LIGHT WITH HANDHOLE
- EXISTING STREET LIGHT
- TRAFFIC SIGNAL CONTROLLER UNIT
- TRAFFIC SIGNALL - JUNCTION BOX

#PC-2701-M1

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PRIVATE ENGINEERING NOTE

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REGISTERED PROFESSIONAL ENGINEER 31-90

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt Vernon Ave, Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE
3	ADDED TURN POCKET LANE	PO	5/22/95
2	DELETED PARKWAY LANDSCAPE (N.I.C.)	MK	2/22/90
1	REVISED NOTE 8	MK	2/22/90

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

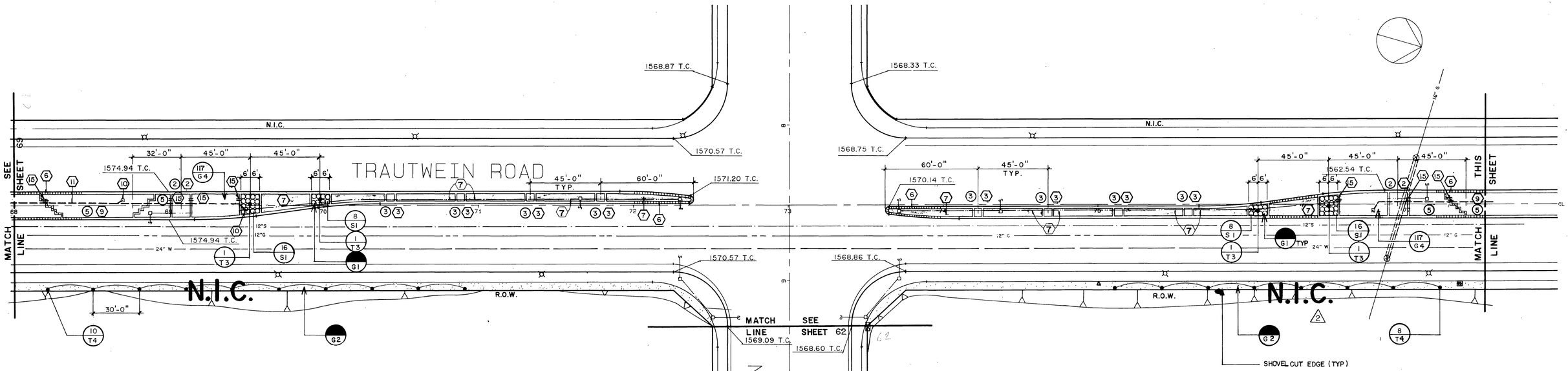
APPROVED BY DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION/PLANTING PLAN
TRAUTWEIN ROAD
STA. 47+0 TO STA. 68+0
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056
SHEET 69 OF 88
FILE NO.: 8710164

PC 2701-M1

INDEXED 7-24-90 GH



CONSTRUCTION LEGEND

1. CONSTRUCT PLANTER SEE ENLARGED PLAN, SHEET 67
2. CONSTRUCT 12'X 15' PLANTER SEE ENLARGED PLAN, SHEET 67
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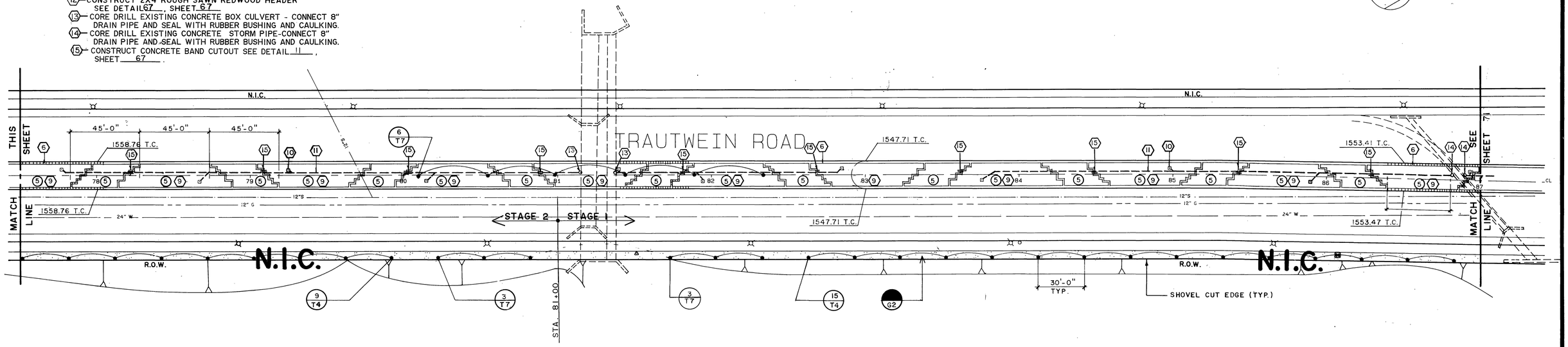
4. CONSTRUCT 3'X 3' PLANTER SEE ENLARGED PLAN, SHEET 67
5. 12"X12" TILE PATTERN STAMPED CONCRETE SEE TEXTURED PAVING NOTES, SHEET 67
6. 12"X 12" TILE PATTERN STAMPED CONCRETE BAND SEE TEXTURED PAVING NOTES, SHEET 67
7. ASHLAR SLATE PATTERN STAMPED CONCRETE SEE TEXTURED PAVING NOTES, SHEET 67
8. CONSTRUCT CONCRETE MOW CURB PER DETAIL 8, SHEET 67 (SEE SHTS. 72 & 73 FOR LOCATIONS)
9. CONSTRUCT STEPPED PLANTER W/ TILE BAND SEE ENLARGED PLAN, SHEET 67
10. INSTALL CONCRETE CATCH BASIN W/ METAL GRATE. SEE DETAIL 10, SHEET 67
11. INSTALL 8" I.D. DRAIN PIPE. SEE DETAIL 10, SHEET 67
12. CONSTRUCT 2X4 ROUGH SAWN REDWOOD HEADER SEE DETAIL 67, SHEET 67
13. CORE DRILL EXISTING CONCRETE BOX CULVERT - CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
14. CORE DRILL EXISTING CONCRETE STORM PIPE-CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
15. CONSTRUCT CONCRETE BAND CUTOUT SEE DETAIL 11, SHEET 67.

PLANTING LEGEND

1. STEPPED PLANTER SEE ENLARGED PLAN, SHEET 68
2. 12'X 15' PLANTER SEE ENLARGED PLAN, SHEET 68
3. 5'X 5' PLANTER SEE ENLARGED PLAN, SHEET 68
4. 3'X 3' TREE PLANTER SEE ENLARGED PLAN, SHEET 68
5. STEPPED PLANTER WITH TILE BAND SEE ENLARGED PLAN, SHEET 68



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PRIVATE ENGINEERING NOTE

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REGISTERED LANDSCAPE ARCHITECT JOHN J. DAVIDSON NO. 2651 EXP. 1-31-90 STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE
2	DELETED PARKWAY LANDSCAPE (N.I.C.)	JLT	2/22/90
1	REVISED NOTE 8	JLT	2/22/90

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/5/89
TRAFFIC DIVISION		12/5/89
CHIEF P.W. ENGR.		12/5/89

APPROVED BY Barry Paul
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

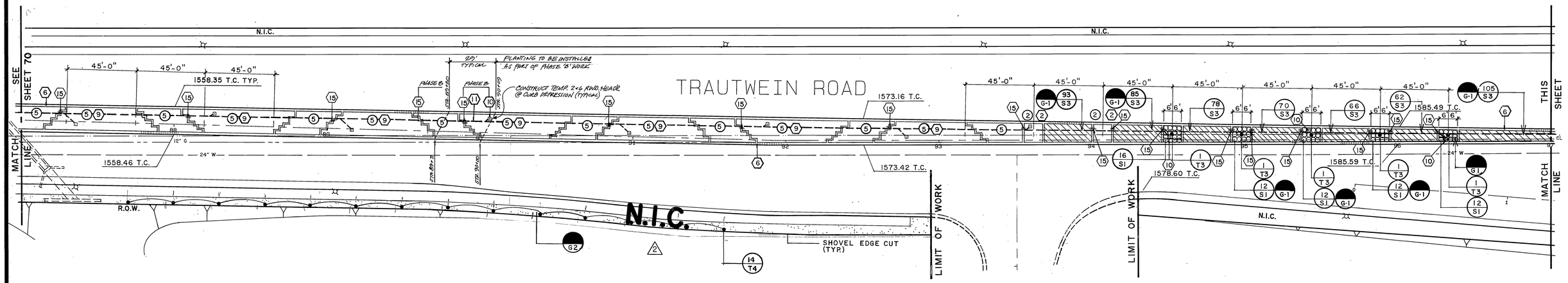
DWR 12/18/89 RBK 12/6/89

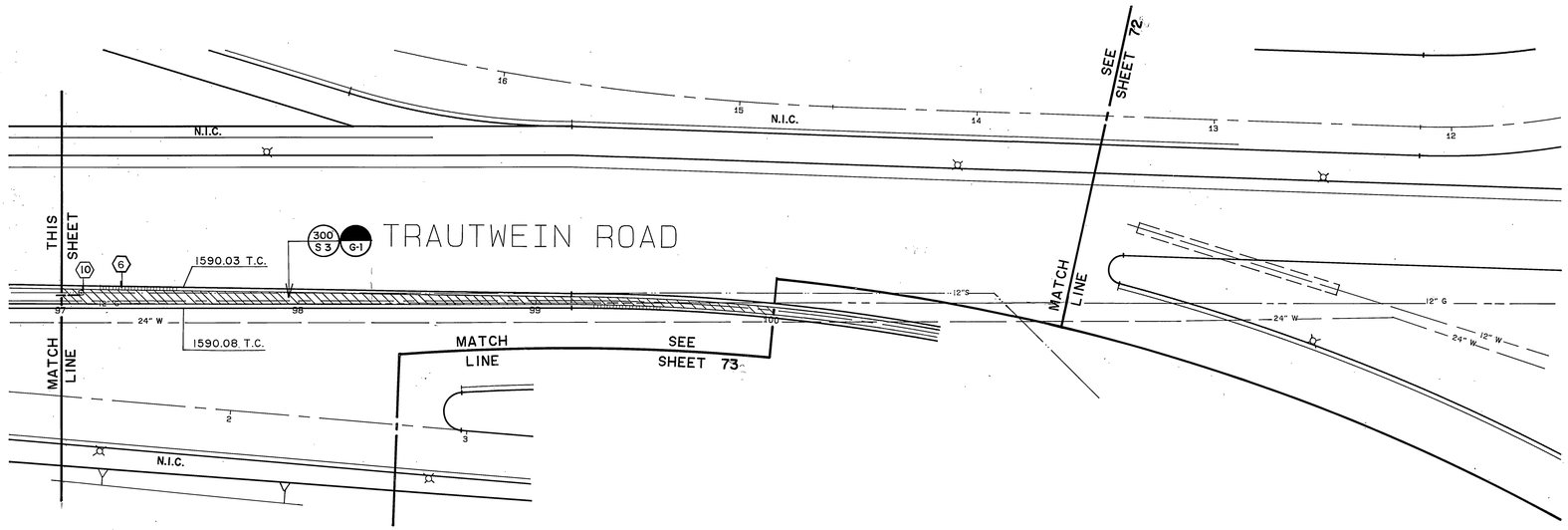
CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION / PLANTING PLAN
TRAUTWEIN ROAD
STA. 68+00 TO STA. 87+00
HORIZ. SCALE: 1" = 1" = 30' VERT. SCALE: 1"

PROJECT NO R-3056
SHEET 70 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 GH

PC 2701





PLANTING LEGEND

1. STEPPED PLANTER
   SEE ENLARGED PLAN, SHEET 68
2. 12'X 15' PLANTER
   SEE ENLARGED PLAN, SHEET 68
3. 5'X 5' PLANTER
   SEE ENLARGED PLAN, SHEET 68
4. 3'X 3' TREE PLANTER
   SEE ENLARGED PLAN, SHEET 68
5. STEPPED PLANTER WITH TILE BAND
   SEE ENLARGED PLAN, SHEET 68

CONSTRUCTION LEGEND

1. CONSTRUCT PLANTER
   SEE ENLARGED PLAN, SHEET 67
2. CONSTRUCT 12'X 15' PLANTER
   SEE ENLARGED PLAN, SHEET 67
3. CONSTRUCT 5'X 5' PLANTER
   SEE ENLARGED PLAN, SHEET 67
4. CONSTRUCT 3'X 3' PLANTER
   SEE ENLARGED PLAN, SHEET 67
5. 12"X12" TILE PATTERN STAMPED CONCRETE
   SEE TEXTURED PAVING NOTES, SHEET 67
6. 12"X 12" TILE PATTERN STAMPED CONCRETE BAND
   SEE TEXTURED PAVING NOTES SHEET 67
7. ASHLAR SLATE PATTERN STAMPED CONCRETE
   SEE TEXTURED PAVING NOTES, SHEET 67
8. CONSTRUCT CONCRETE MOW CURB
   PER DETAIL 8, SHEET 67 (SEE SHEETS 72 & 73 FOR LOCATIONS)
9. CONSTRUCT STEPPED PLANTER W/ TILE BAND
   SEE ENLARGED PLAN, SHEET 60.
10. INSTALL CONCRETE CATCH BASIN W/ METAL GRATE.
    SEE DETAIL 10, SHEET 67
11. INSTALL 8" I.D. DRAIN PIPE.
    SEE DETAIL 10, SHEET 67
12. CONSTRUCT 2X4 ROUGH SAWN REDWOOD HEADER
    SEE DETAIL 7, SHEET 67
13. CORE DRILL EXISTING CONCRETE BOX CULVERT
    CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
14. CORE DRILL EXISTING CONCRETE STORM PIPE
    CONNECT 8" DRAIN PIPE AND SEAL WITH RUBBER BUSHING AND CAULKING.
15. CONSTRUCT CONCRETE BAND CUTOUT
    SEE DETAIL 11, SHEET 67.

REFER TO SHEET 68 FOR PLANTING LEGEND

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PRIVATE ENGINEERING NOTE

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REGISTERED LANDSCAPE ARCHITECT
DAVID A. MILLER
NO. 2851
EXP. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

BENCH MARK:

MARK	REVISIONS	APPR.	DATE
3	ADDED RWD HEADER	MF	1/21/94
2	DELETED PARKWAY LANDSCAPE (N.I.C.)	MF	2/22/90
1	REVISED NOTE #8	MF	2/22/90

DESIGNED BY KP DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

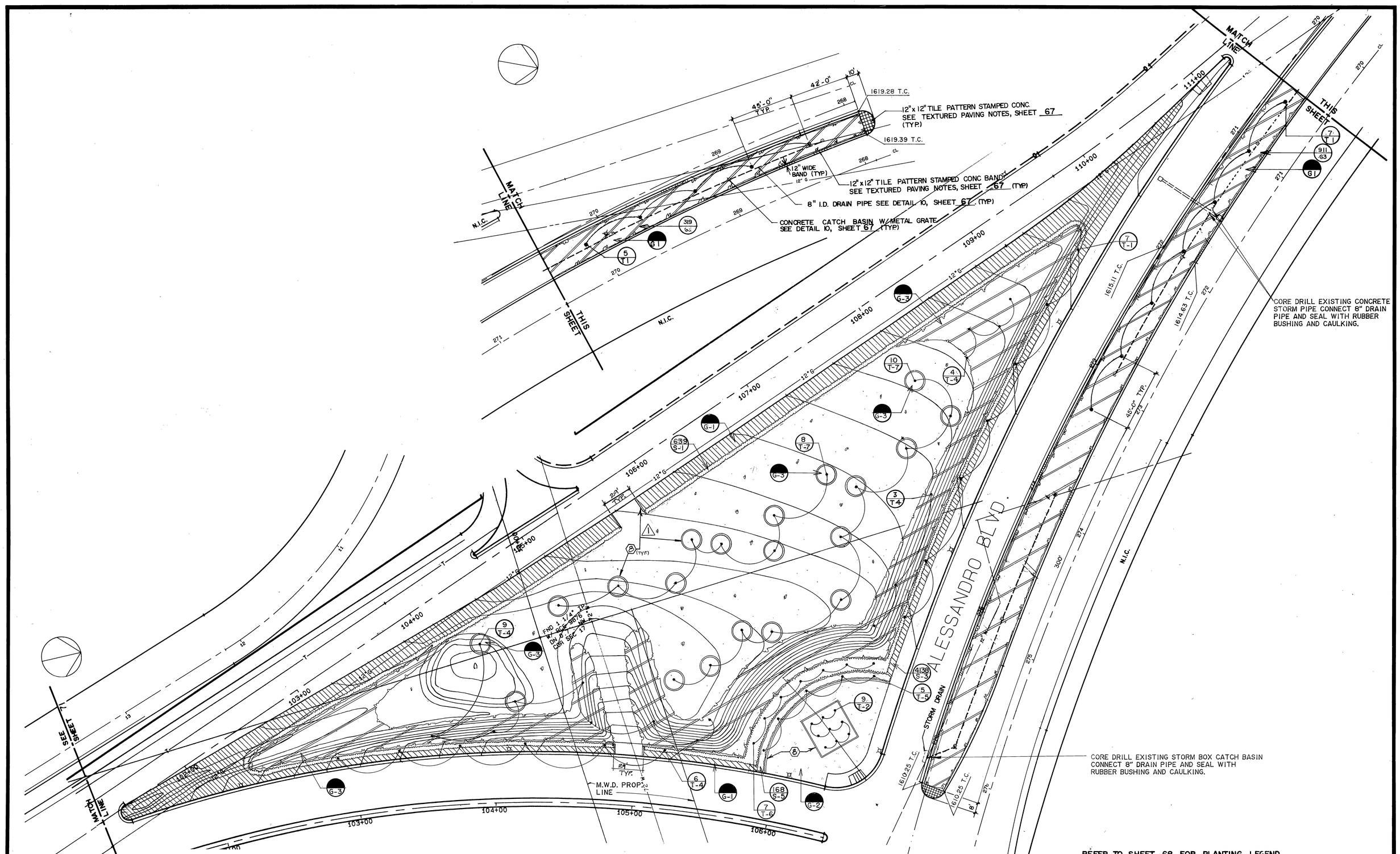
APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION/PLANTING PLAN
TRAUTWEIN ROAD
STA. 87+00 TO STA. 100+00
HORIZ. SCALE: 1" = 1" VERT. SCALE: 1" = 30'

PROJECT NO. R-3056
SHEET 71 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 FH



REFER TO SHEET 68 FOR PLANTING LEGEND

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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 LANDSCAPE ARCHITECT — DAVID VOSS — No. 2551 — Exp. 1-31-90 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____

EXPIRATION DATE: _____ DATE: _____

APPROVED BY:

SCALE: 1" = 30'

DATE: 11-17-89

BENCH MARK:

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082

73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

MARK	REVISIONS	APPR.	DATE
1	EXTENED NOTE 8 TO TREE RINGS	LM	2/22/90

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/12/89
TRAFFIC DIVISION		12/12/89
CHIEF P. W. ENGR.		12/12/89

APPROVED BY _____ DIRECTOR OF PUBLIC WORKS

DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

CONSTRUCTION/ PLANTING PLAN
ALLESANDRO BOULEVARD

STA. 270+50 TO STA. 276+75

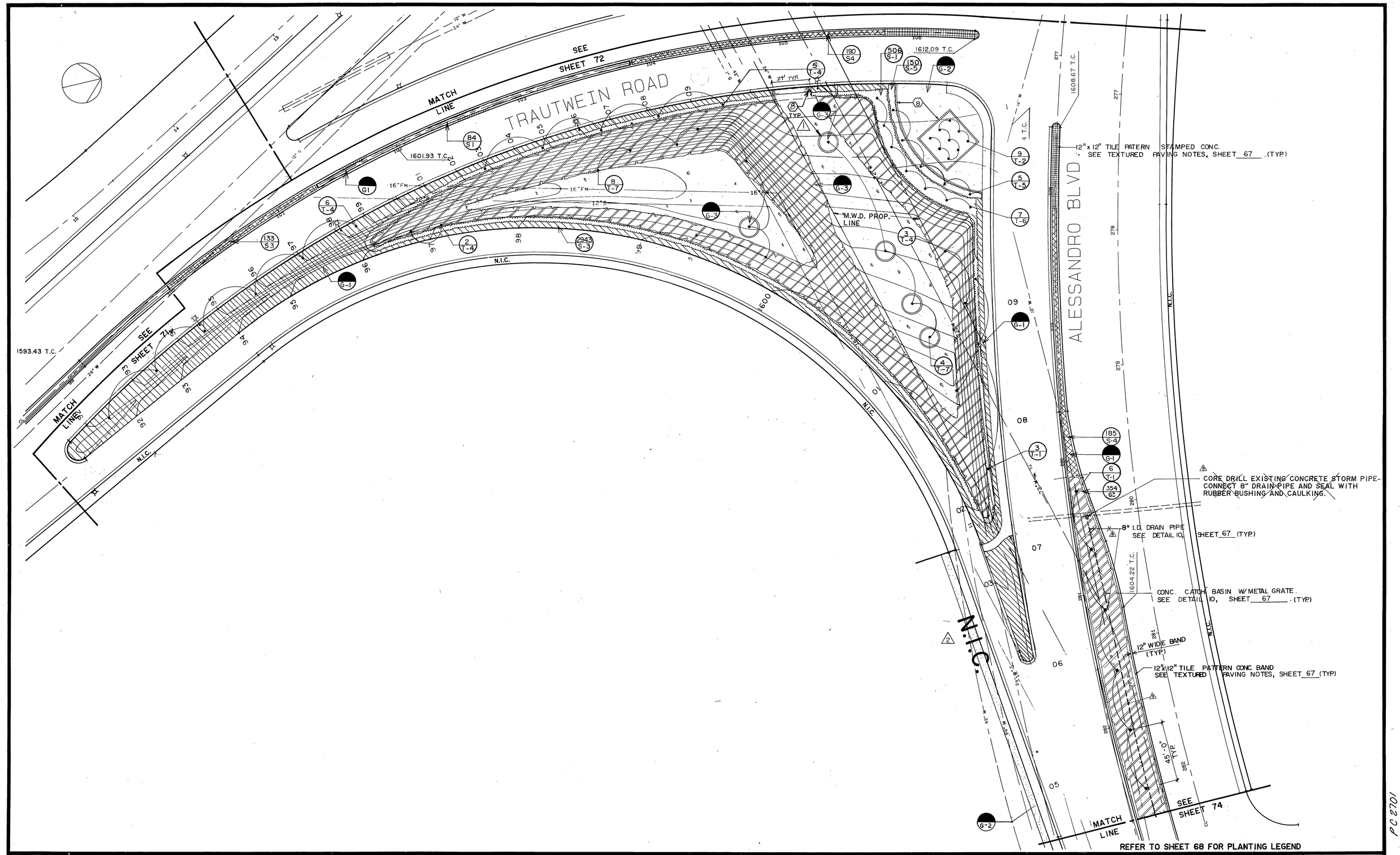
HORIZ. SCALE: 1" = 30' VERT. SCALE:

PROJECT NO. R-3056

SHEET 72 OF 88

FILE NO.: 8710164

INDEXED 7-29-90 4H



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REGISTERED LANDSCAPE ARCHITECT
ANN M. DAVIDSON
No. 2651
EXP. 1-31-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____
EXPIRATION DATE: _____ DATE: _____

APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300
P.O. Box 493
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(619) 346-5691
FAX 619-340-0529

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

MARK	REVISIONS	APPR	DATE
3	REVISED STORM DRAIN IN MEDIAN @ ALESSANDRO	MC	3/6/97
2	DELETED PARKWAY LANDSCAPE (N.I.C.)		1/22/90
1	EXTENDED NOTE 8 TO TREE RINGS		1/22/90

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

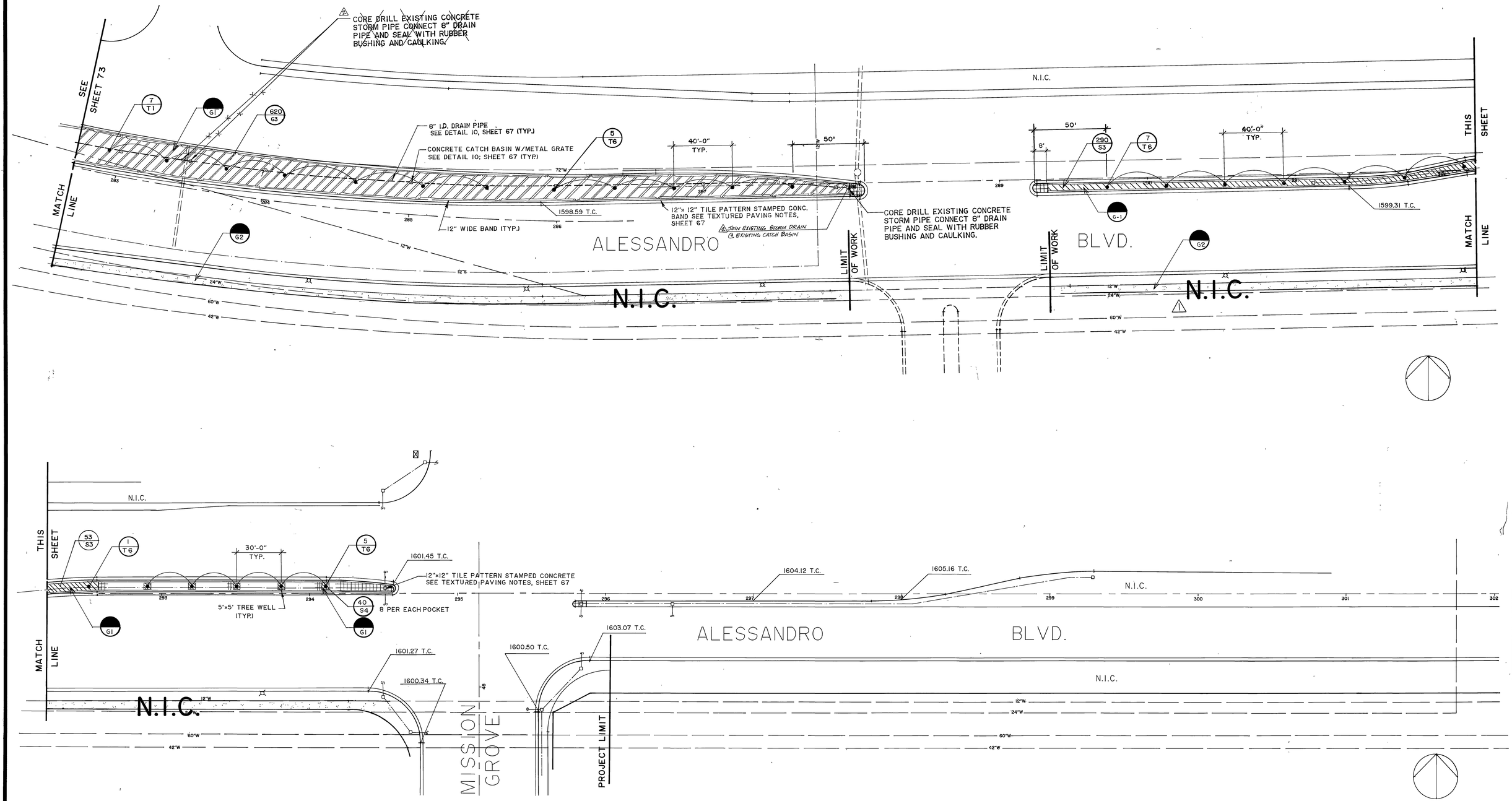
APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION/ PLANTING PLAN
ALESSANDRO BLVD.
STA. 276+75 TO STA. 282+70
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. **R-3056**
SHEET 73 OF 88
FILE NO.: 8710164

INDEXED 7-24-90

PC 2701



REFER TO SHEET 68 FOR PLANTING LEGEND

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REGISTERED LANDSCAPE ARCHITECT — JOHN J. DAVIDSON — No. 2651 — Exp. 1-31-90 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO.

EXPIRATION DATE: DATE:

APPROVED BY:

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954

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73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-6529

SCALE: 1" = 30'

DATE: 11-17-89

BENCH MARK:

MARK	REVISIONS	APPR.	DATE
2	REVISED STORM DRAIN @ MEDIAN		
1	DELETED PARKWAY LANDSCAPE (N.I.C.)		

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGR.		

APPROVED BY

DIRECTOR OF PUBLIC WORKS

DATE 12/15/89

CFD 86-1 IMPROVEMENT AREA No. 1

CONSTRUCTION/PLANTING PLAN

ALESSANDRO BOULEVARD

STA. 282+70 TO STA. 301+75

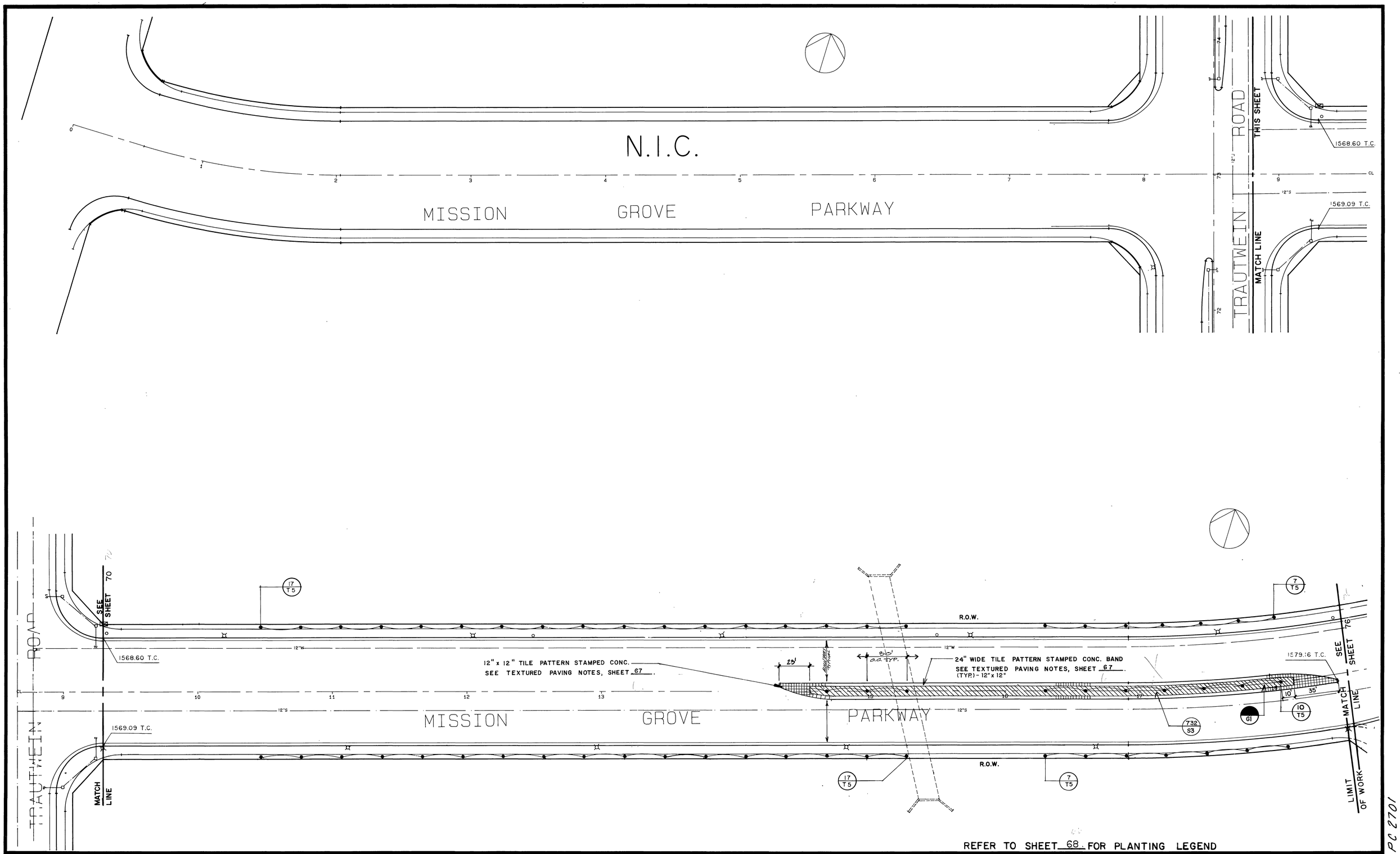
HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

PROJECT NO. R-3056

SHEET 74 OF 88

FILE NO.: 8710164

INDEXED 7-24-90



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REGISTERED LANDSCAPE ARCHITECT
JAMES A. DAVIDSON
No. 2529
6-30-90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____

EXPIRATION DATE _____ DATE: _____

APPROVED BY

SCALE 1" = 30'

DATE 11-17-89

BENCH MARK

J.F. Davidson Associates, Inc.

ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street Suite 300
P.O. Box 493
Riverside, CA 92502
(714) 686-0844
FAX 714-686-5954

11200 S. Mt Vernon Ave Suite "D"
Colton, CA 92324
(714) 825-1082

73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

MARK	REVISIONS	APPR	DATE
A	REVISED MEDIAN NOSE		1/21/94

DESIGNED BY KO DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P W ENGR		

APPROVED BY
DIRECTOR OF PUBLIC WORKS

DATE 12/15/85

CFD 86-1 IMPROVEMENT AREA No. 1

CONSTRUCTION/PLANTING PLAN

MISSION GROVE PKWY SO

STA. 8+70 TO STA. 18+55

HORIZ SCALE. 1" = 30' VERT SCALE. 1"

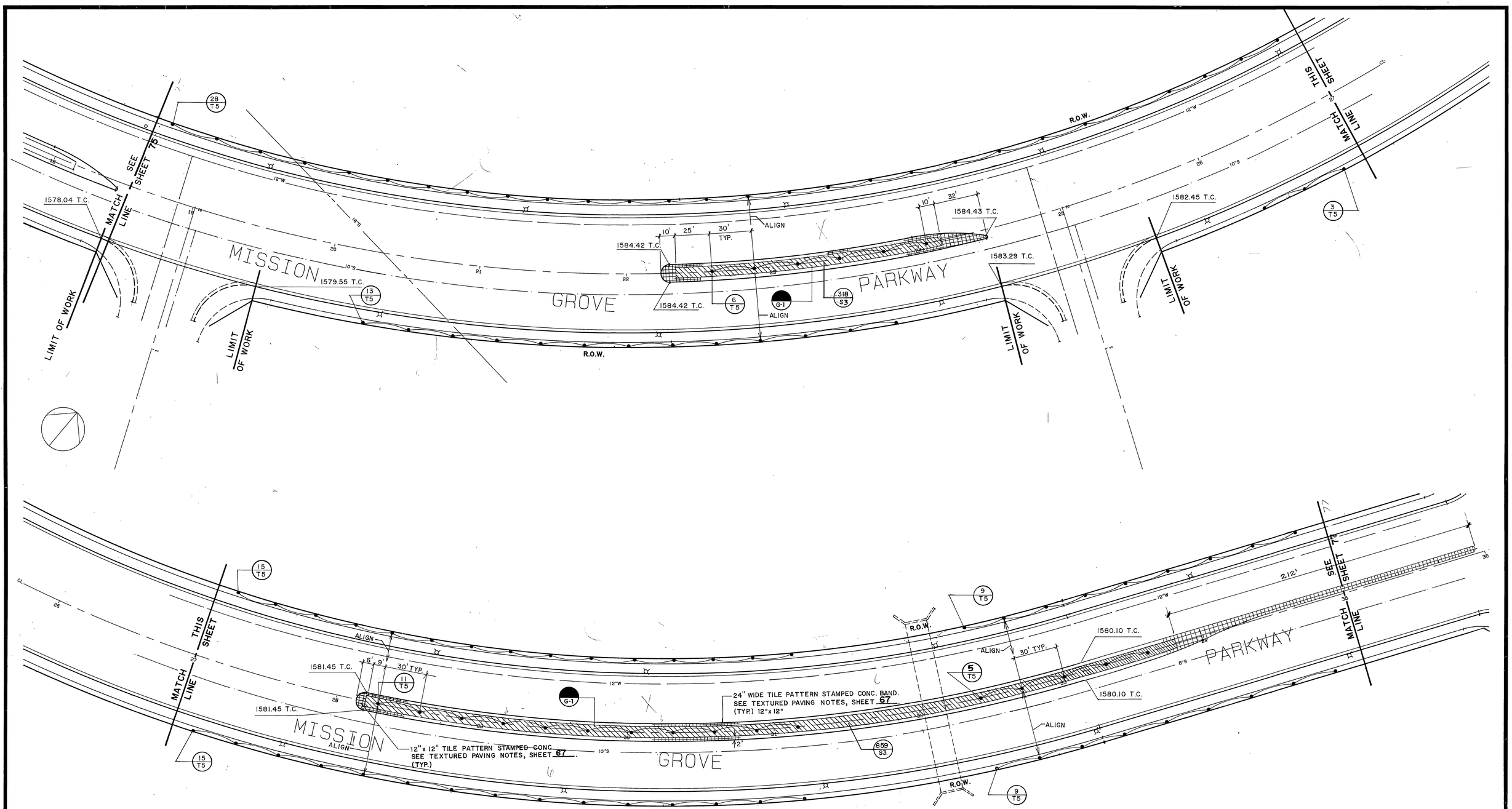
PROJECT NO **R-3056**

SHEET 75 OF 88

FILE NO 8710164

PC 2701

INDEXED 7-24-90 4-11



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REGISTERED LANDSCAPE ARCHITECT — CALIFORNIA — No. 1239 — Exp. 12-31-90 — STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:

REGISTERED CIVIL ENGINEER NO. _____

EXPIRATION DATE: _____ DATE: _____

APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE

3880 Lemon Street, Suite 300
P.O. Box 493
Riverside, CA 92502
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73-080 El Paseo, Suite 106
Palm Desert, CA 92260
(619) 346-5691
FAX 619-340-0529

SCALE: 1" = 30'

DATE: 11-17-89

BENCH MARK:

MARK	REVISIONS	APPR.	DATE

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/4/89
TRAFFIC DIVISION		12/4/89
CHIEF P.W. ENGR.		12/4/89

APPROVED BY: DIRECTOR OF PUBLIC WORKS

DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

CONSTRUCTION/PLANTING PLAN

MISSION GROVE PKWY SO

STA. 18+55 TO STA. 35+00

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

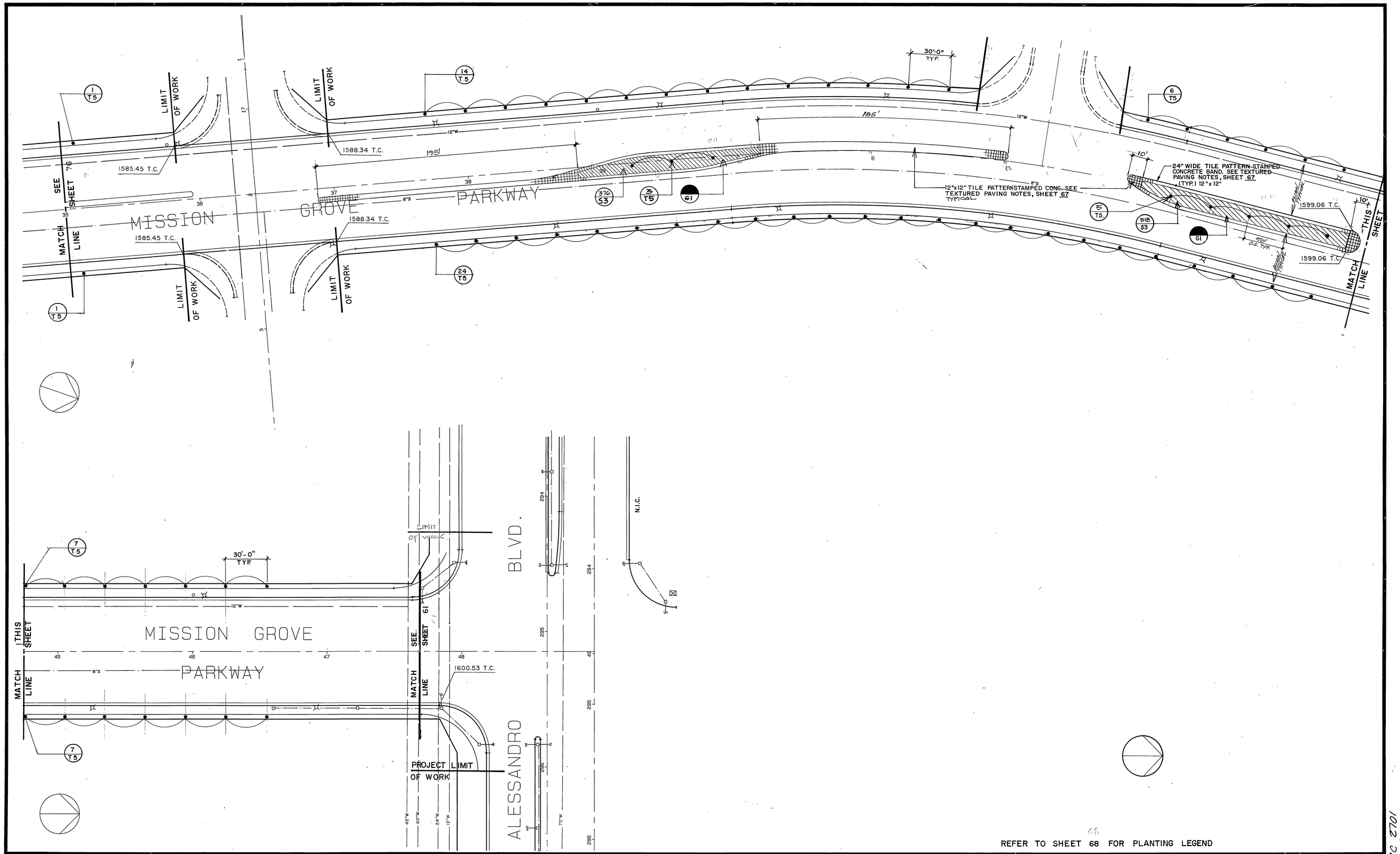
PROJECT NO. **R-3056**

SHEET 76 OF 88

FILE NO.: 8710164

PC 2701

INDEXED 7-24-90 HI



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REGISTERED LANDSCAPE ARCHITECT
DAVID MILLER
5051
12/1/89
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF:
REGISTERED CIVIL ENGINEER NO.
EXPIRATION DATE: DATE:
APPROVED BY:

SCALE: 1" = 30'
DATE: 11-17-89
BENCH MARK:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
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MARK	REVISIONS	APPR.	DATE
A	ADDED MEDIAN		1/21/90

DESIGNED BY KD DRAWN BY LJT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		12/12/89
TRAFFIC D'VISION		12/12/89
CHIEF P.W. ENGR.		12/12/89

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1
CONSTRUCTION/PLANTING PLAN
MISSION GROVE PKWY SO
STA. 35+00 TO STA. 47+69

HORIZ. SCALE: 1" = 30' VERT. SCALE: 1"

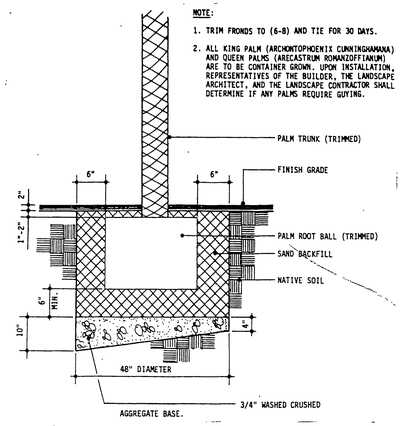
PROJECT NO. R-3056
SHEET 77 OF 88
FILE NO.: 8710164

INDEXED 7-24-90 4H

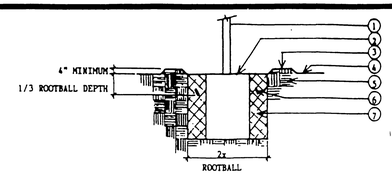
PC 2701

NOTE:

1. TRIM FRONDS TO (6-8) AND TIE FOR 30 DAYS.
2. ALL KING PALM (ARCHONTOPHOENIX CUNNINGHAMANA) AND QUEEN PALMS (ARECASTRUM ROMANZOFFIANUM) ARE TO BE CONTAINER GROWN. UPON INSTALLATION, REPRESENTATIVES OF THE BUILDER, THE LANDSCAPE ARCHITECT, AND THE LANDSCAPE CONTRACTOR SHALL DETERMINE IF ANY PALMS REQUIRE GUYING.



G PALM PLANTING DETAIL



LEGEND

1. CONTAINER PLANT
2. SET ROOTBALL FROM 2" MAX TO 1/2" MIN. HIGHER THAN ADJACENT FINISH GRADE.
3. WATERING BASIN
4. FINISH GRADE
5. UNDISTURBED SOIL (TYP.)
6. FERTILIZER TABLETS (PER SPECS)
7. BACKFILL (PER SPECS)

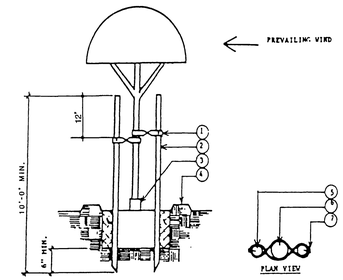
GENERAL PLANTING NOTES

1. CONTACT THE PARK PROJECT INSPECTOR AT 787-7223, 48 HOURS PRIOR TO INSTALLING ANY PLANT MATERIAL.
2. TREES PLANTED IN TURF AREAS SHALL BE MAINTAINED WITH A MINIMUM 12" RADIUS AROUND TREE FREE FROM TURF THROUGHOUT THE MAINTENANCE PERIOD.
3. WATERING BASINS MAY BE REMOVED AFTER THE MAINTENANCE PERIOD.
4. FOR STAKING INFORMATION AS APPLICABLE, REFER TO STANDARD STAKING DETAIL.
5. FOR GUYING INFORMATION AS APPLICABLE, REFER TO STANDARD GUYING DETAIL.
6. FOR SPECIFICATION INFORMATION, REFER TO CITY OF RIVERSIDE PARK AND RECREATION DEPARTMENT STANDARD SPECIFICATIONS SECTIONS 02480/02401.
7. PROVIDE FERTILIZER TABLETS AS FOLLOWS:

1 GAL PLANT	2 TABLETS
5 GAL PLANT	3 TABLETS
15 GAL PLANT	5 TABLETS
24" BOX PLANT	8 TABLETS

D PLANTING DETAIL

DETAIL NO. 1001



LEGEND

1. TIRE STRIP TIE
2. 2" LODGEPOLE PINE STAKE
3. PLASTIC TRUNK GUARD SUCH AS ARBOR-GARD AS MANUFACTURED BY DEEP ROOT CORP.
4. UNDISTURBED SOIL
5. LODGEPOLE PINE STAKE
6. TREE TRUNK
7. GALV. RAIL

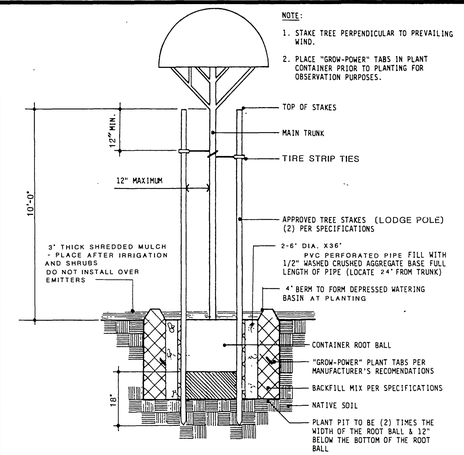
NOTE

1. STAKES SHALL NOT PIERCE ROOTBALL AND SHALL EXTEND INTO UNDISTURBED SOIL.
2. SEE STANDARD PLANTING DETAIL FOR PLANTING INFORMATION.

C CITY OF RIVERSIDE STANDARD TREE STAKING DETAIL NO.1002

NOTE:

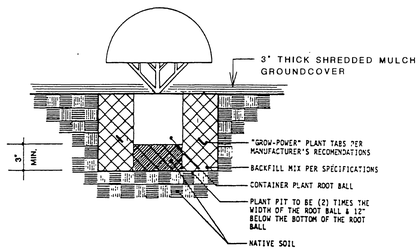
1. STAKE TREE PERPENDICULAR TO PREVAILING WIND.
2. PLACE "GROW-POWER" TABS IN PLANT CONTAINER PRIOR TO PLANTING FOR OBSERVATION PURPOSES.



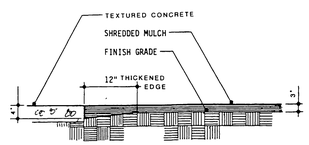
E DOUBLE STAKED TREE IN GROUNDCOVER

NOTE:

1. UNTANGLE MATTED ROOTS BY LOOSENING ALL ROOTS AT EDGE OF ROOT BALL WITH WATER FROM HOSE. DO NOT CRACK ROOT BALL.
2. PLACE "GROW-POWER" TABS IN PLANT CONTAINER PRIOR TO PLANTING FOR OBSERVATION PURPOSES.



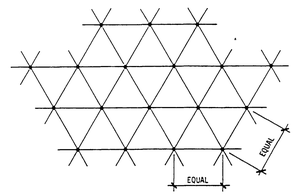
B CONTAINER PLANTING MEDIAN PLANTER



NOTE:

1. MULCH UNDER ALL TREES AND SHRUBS

F SHREDDED MULCH IN PLANT BED



NOTE:

1. ALL SHRUBS/GROUND COVER TO BE PLANTED AT EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE INDICATED ON PLANS. SEE LEGEND FOR SPACING REQUIREMENTS.

A SHRUB & GROUND COVER SPACING

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REGISTERED LANDSCAPE ARCHITECT
JAY J. DAVIDSON
No. 2651
Exp. 12/90
STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF

REGISTERED CIVIL ENGINEER NO

EXPIRATION DATE DATE

APPROVED BY

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

P O BOX 493
☐ RIVERSIDE, CA 92502
(714) 686-0844

11200 SO MT VERNON AVE #D
☐ COLTON, CA 92324
(714) 825-1082

73-080 EL PASEO, #103
☐ PALM DESERT, CA 92260
(619) 346-5691

JFD ASSOCIATES

AS SHOWN

DATE 11-17-89

BENCH MARK

MARK	REVISIONS	APPR	DATE

DESIGNED BY KD DRAWN BY JT CHECKED BY AM

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P W ENGR		

APPROVED BY

DIRECTOR OF PUBLIC WORKS

DATE 12/5/89

CFD 86-1 IMPROVEMENT AREA No. 1

PLANTING DETAILS

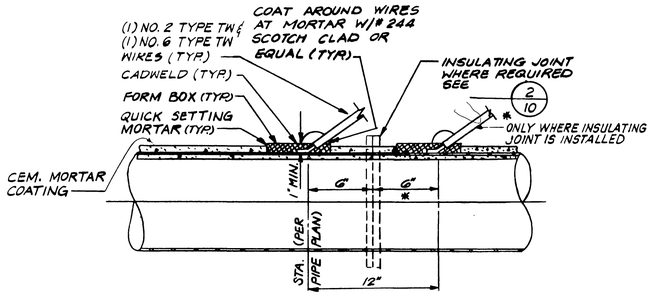
HORIZ SCALE: 1" VERT. SCALE: 1"

PROJECT NO R-3056

SHEET 78 OF 88

FILE NO 8710164

INDEXED 7-24-90 GH

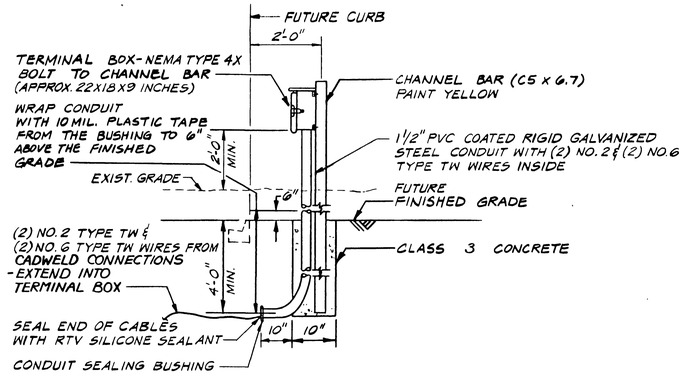


TYPICAL BOND CONNECTIONS

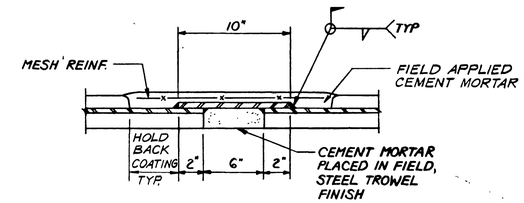
NOTE: CONNECT TEST LEADS AND CATHODIC PROTECTION LEADS TO EACH SIDE OF THE PIPE JOINT IN ACCORDANCE WITH THE FOLLOWING PROCEDURE:

A. REMOVE MORTAR COATING IN A SQUARED AREA AT EACH CONNECTION POINT AS REQUIRED WITHOUT CUTTING ANY PRETENSIONED HOOP WIRES ON THE CONCRETE CYLINDER PIPE.
B. CADWELD THE BARE WIRE END OF THE NO. 6 TYPE TW OR NO. 2 TYPE TW TEST LEAD WIRE IN EACH AREA. CADWELDS SHALL BE A MINIMUM OF 12 INCHES APART.
C. CUT AND REMOVE ANY UNWELED WIRE END IN EACH AREA.
D. COAT WIRES WITH NO. 244 SCOTCH CLAD OR EQUAL.
E. SET FORM BOX AROUND PIPE, AND FILL IN EACH AREA WITH QUICK SETTING MORTAR.

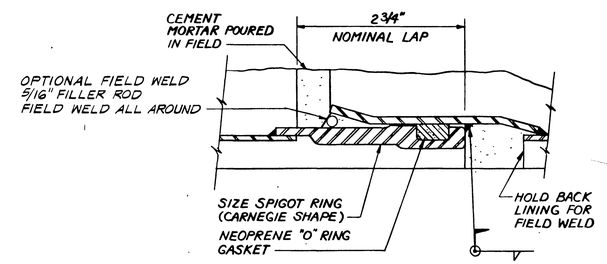
CORROSION TEST POINT 1/—
N.T.S.



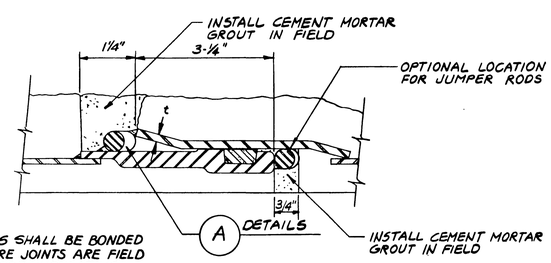
ABOVE GROUND TERMINAL BOX INSTALLATION



BUTT STRAP JOINT 3/—
N.T.S.

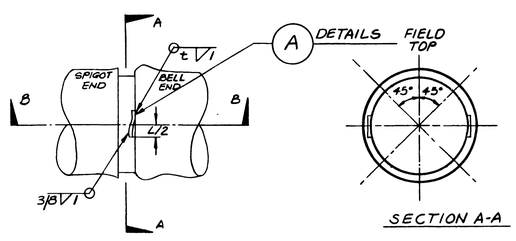


WELDED JOINT DETAIL 2/—
N.T.S.



NOTE: ALL JOINTS SHALL BE BONDED EXCEPT WHERE JOINTS ARE FIELD WELDED, WHERE INSULATING JOINTS ARE SHOWN, OR WHERE JOINTS ARE FLANGED.

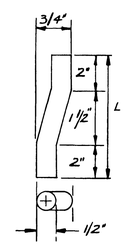
SECTION B-B



TOP VIEW

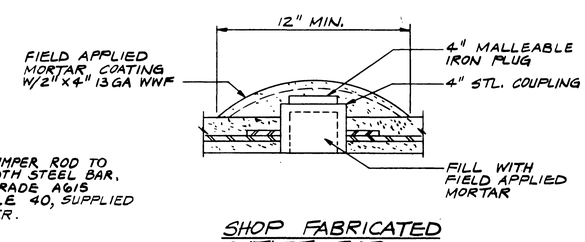
SECTION A-A

JOINT BONDING DETAILS 4/—
N.T.S.



NOTE: JUMPER ROD TO BE SMOOTH STEEL BAR, ASTM GRADE A615 SCHEDULE 40, SUPPLIED BY OWNER.

A DETAILS JUMPER ROD



SHOP FABRICATED OUTLET FOR WELDING LEADS 5/—
N.T.S.

NOTE: THESE OUTLETS WILL BE PROVIDED AT CONTRACTOR'S REQUEST AND AT CONTRACTOR'S EXPENSE.

SCHEDULE OF FIELD WELDED JOINTS SHOWING PIPE LENGTHS EA. SIDE & PT TO BE FIELD WELDED IN FEET

PIPE SIZE	42"					
PRESS. CLASS	150	175				
90°-106°	300	360				
45°	80	110				
22½°	40	40				
11¼°	30	30				

NOTES: 1. REQUIREMENTS FOR WELDED JOINTS APPLY TO BOTH VERTICAL ANGLE POINTS AND HORIZONTAL ANGLE POINTS.
2. FOR INTERMEDIATE DEFLECTION ANGLES, USE WELDED LENGTH OF LARGER ANGLE.
3. WELD ALL 42" PIPE JOINTS WITHIN 360 FT. OF 42" VALVES.

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NO.	DATE	REVISIONS	BY

		DATE
PROJECT NO.	66094	
DESIGNED BY	T. VEERAKIT	8-87
DRAWN BY	L. TRAN	8-87
CHECKED BY	R. DEUSSEN	8-87
ENGINEER	Richard R. Deussen	
REGISTRATION No.	16688	DATE 8/26/88

ENGINEERING-SCIENCE
DESIGN • RESEARCH • PLANNING
75 NORTH FAIR OAKS AVE. • P.O. BOX 7107 • PASADENA, CALIFORNIA 91109
OFFICES IN PRINCIPAL CITIES
ES

SANTA ANA WATERSHED PROJECT AUTHORITY
3600 Tyler Street, Suite 207
Riverside, CA 92503

WOODCREST WATER SUPPLY PROJECT
WOODCREST WATERLINE REACH W2
JOINT DETAILS & CORROSION MONITORING

SCALE: AS SHOWN
SHEET NO. 9 OF 11
FILE NO.

Underground Service Alert
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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 JIMMY W. SIMS No. 35458 Exp. ____ CIVIL STATE OF CALIFORNIA

PREPARED UNDER THE DIRECTION OF: Jimmy W. Sims
REGISTERED CIVIL ENGINEER NO. 35458
EXPIRATION DATE: 9/30/91 DATE: 12/10/89
APPROVED BY:

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, Suite 300, P.O. Box 493, Riverside, CA 92502, (714) 686-0844, FAX 714-686-5954
11200 S. Mt. Vernon Ave., Suite "D", Colton, CA 92324, (714) 825-1082
73-080 El Paseo, Suite 106, Palm Desert, CA 92260, (619) 346-5691, FAX 619-340-0529

SCALE: N.T.S.
DATE: APRIL 1989
BENCH MARK: N/A

MARK	REVISIONS	APPR.	DATE

DESIGNED BY M.M. DRAWN BY F.P. CHECKED BY R.C.H.

CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P. W. ENGR.		

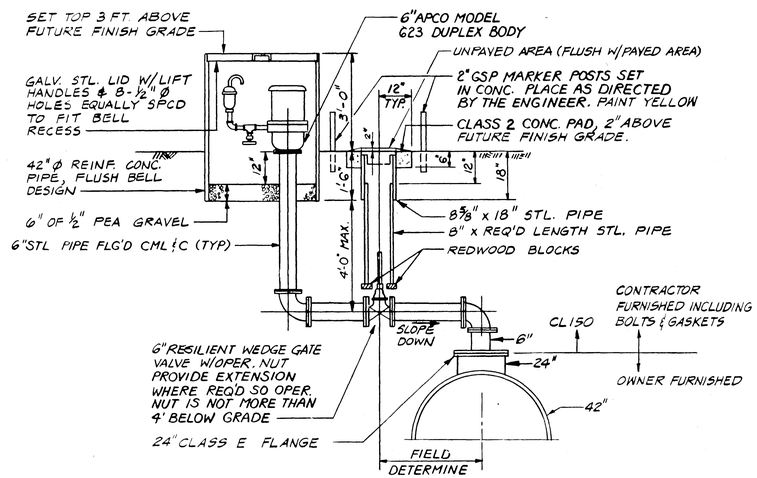
APPROVED BY: DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

86-1 CFD IMPROVEMENT AREA No. 1
S.A.W.P.A.
INFORMATION DETAILS
EXISTING 42" WATERLINE

HORIZ. SCALE: 1" N.T.S. VERT. SCALE: 1" N.T.S.

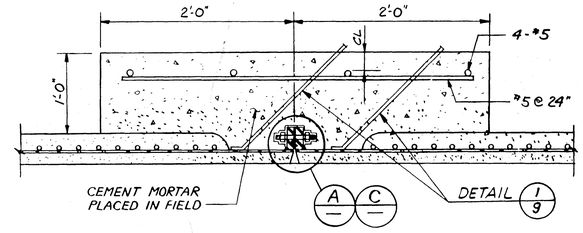
PROJECT NO. R-3056
SHEET 79 OF 88
FILE NO.: 8710164.

INDEXED 7-24-90



AIR & VACUUM VALVE DETAIL (1/—)
N.T.S.

NOTE: PROVIDE 8" LUBRICATED PLUG VALVE IN LIEU OF GATE VALVE WHERE THE MAIN PIPE CLASS IS HIGHER THAN CLASS 150. APPLICABLE TO HERBON DETAIL ① & DETAIL ②.



INSULATING JOINT CORROSION TEST POINTS (2/—)
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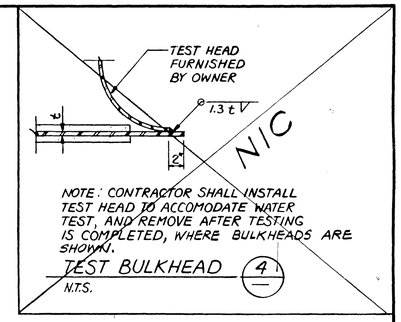
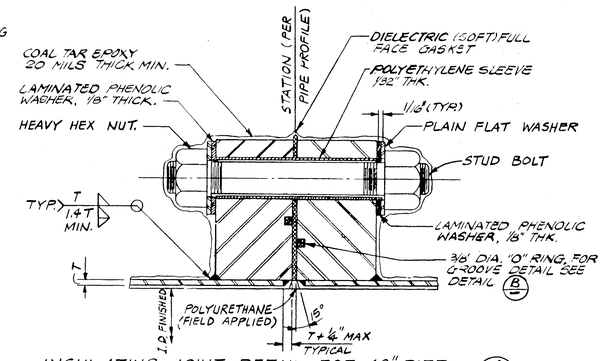
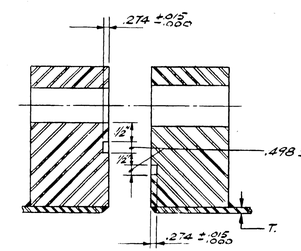


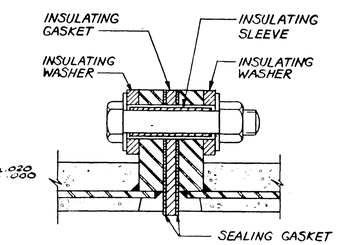
TEST BULKHEAD (4/—)
N.T.S.



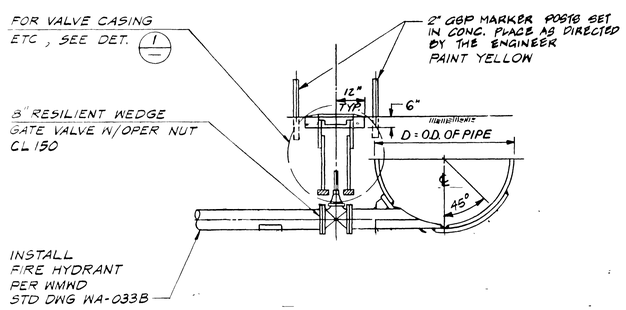
INSULATING JOINT DETAIL FOR 42" PIPE (A/—)
N.T.S.



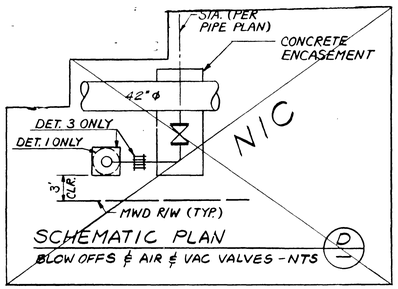
DETAIL (B/—)
N.T.S.



INSULATING JOINT DETAIL FOR PIPES 24" AND SMALLER (C/—)
N.T.S.



BLOW-OFF ASSEMBLY (3/—)
N.T.S.



SCHEMATIC PLAN
BLOW OFFS & AIR & VAC VALVES - NTS (D/—)

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NO.	DATE	REVISIONS	BY

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PROJECT NO.	66094	
DESIGNED BY	T VEERAKIT	8-87
DRAWN BY	L TRAN	8-87
CHECKED BY	R. DEUSSEN	8-87
ENGINEER	Richard R. Deussen	
REGISTRATION NO.	16688	DATE 8/26/88

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SANTA ANA WATERSHED PROJECT AUTHORITY
3600 Tyler Street, Suite 207
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WOODCREST WATER SUPPLY PROJECT
WOODCREST WATERLINE REACH W2
MISCELLANEOUS DETAILS I

SCALE: AS SHOWN
SHEET NO. 10 OF 11
FILE NO

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CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
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CHIEF P.W. ENGR.		

APPROVED BY
DIRECTOR OF PUBLIC WORKS
DATE 12/15/89

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PROJECT NO R-3056
SHEET 80 OF 88
FILE NO 8710164

INDEXED 7-24-90 LH

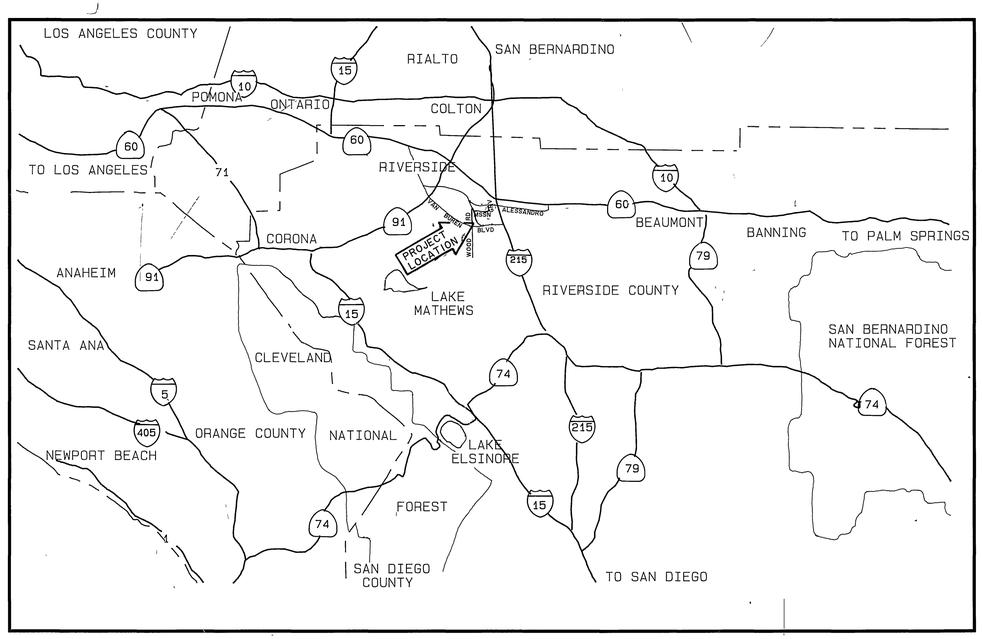
CITY OF RIVERSIDE, CALIFORNIA

CONSTRUCTION PLANS
FOR

TRAUTWEIN ROAD
ALESSANDRO BOULEVARD
&
MISSION GROVE PARKWAY SOUTH

COMMUNITY FACILITIES DISTRICT 86-1

IMPROVEMENT AREA No. 1



PROJECT ENGINEER

J.F. DAVIDSON ASSOCIATES, INC.
3880 LEMON STREET
RIVERSIDE, CALIFORNIA 92502

FILE WITH R-3056
COVER SHEET
INDEXED 7-24-90 GH

W.O. 8710164