RIVERSIDE COUNTY ROAD DEPARTMENT

CONSTRUCTION PLANS

FOR

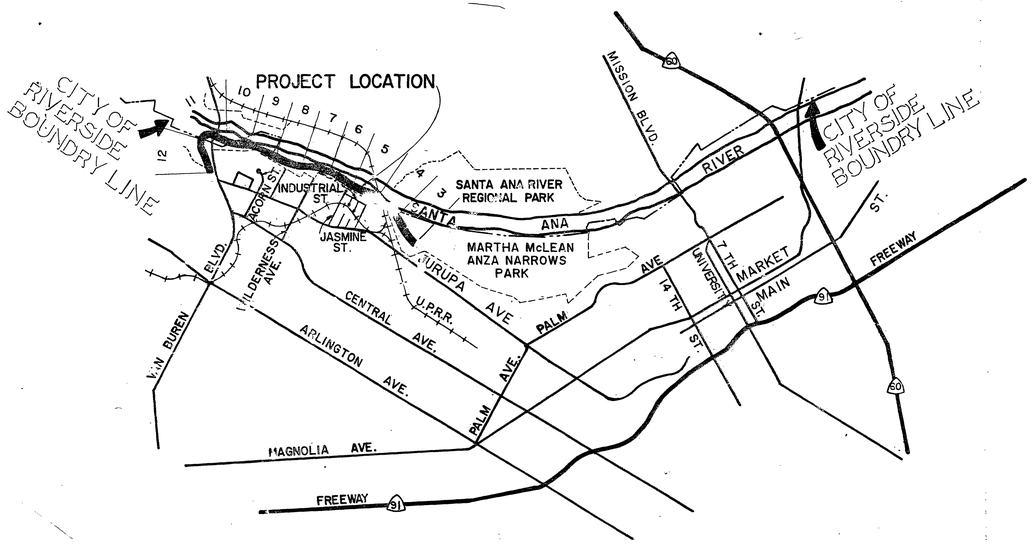
SANTA ANA RIVER BIKEWAY PHASE III

MARTHA MCLEAN-ANZA NARROWS PARK TO DOOLITTLE AVENUE

GENERAL NOTES

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THESE PLANS, RIVERSIDE COUNTY ROAD STANDARDS, AND THE STANDARD SPECIFICATIONS DATED JAN. 1988 OF THE STATE OF CALIFORNIA, DEPT. OF TRANSPORTATION INCLUDING ALL ITS SUPPLEMENTAL AMENDMENTS.
2. ANY CHANGES AND/OR REVISIONS TO THESE PLANS DUE TO INTERFERENCE WITH ANY SUBSTRUCTURES OF ANY KIND NOT SHOWN ON THESE PLANS SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY PARKS DEPARTMENT.
3. REMOVAL AND REPLACEMENT OF ALL INTERFERING PORTIONS OF EXISTING IMPROVEMENTS NECESSARY FOR THE CONSTRUCTION OF THIS PROJECT SHALL BE DONE BY THE CONTRACTOR
4. EXCAVATION AND TRENCH WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE CONSTRUCTION SAFETY ORDERS. THE CONTRACTOR SHALL OBTAIN A PERMIT, IF NEEDED, FROM THE DIVISION OF INDUSTRIAL SAFETY, STATE OF CALIFORNIA, PRIOR TO STARTING ANY WORK AND SUPPLY THE COUNTY PARKS DEPARTMENT WITH A COPY OF SAID PERMIT.
5. THE CONTRACTOR AGREES THAT HE SHALL ASSUME RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE 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 ENGINEER AND THE COUNTY PARKS DEPARTMENT 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 THE COUNTY PARKS DEPARTMENT OR THE ENGINEER.
6. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THESE LOCATIONS ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY UTILITY LINES SHOWN AND ANY OTHER LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS.
7. THE CONTRACTOR SHALL PROVIDE ALL SURVEY STAKING FOR THE PROJECT.
8. THE CONTRACTOR SHALL PROTECT, PRESERVE, AND REPAIR ANY DAMAGE TO ALL ROADWAY AND UTILITY FACILITIES.

NOTE:
THE CONTRACTOR SHALL POSSESS EITHER A CLASS "A" LICENSE OR CLASS "C-12"



VICINITY MAP
NO SCALE

REGIONAL MAP

SHEET INDEX

SHEET No.1	TITLE SHEET
SHEET No.2	TYPICAL SECTIONS & ESTIMATED QUANTITIES
SHEET No.3-12	BIKE TRAIL IMPROVEMENT PLANS
SHEET No. 13,14,14A	STORM DRAIN PROFILES
SHEET No. 15-19	STRIPING PLANS

REGISTERED PROFESSIONAL ENGINEER
LE ROY D. SHOOT
No. CE-14365
March 31, 1993
CIVIL

AS BUILT
CORRECTIONS BY: J. Gomez
CONTRACT NO. 92-7-10

Sec 29 T6S R5W
Sec 36 T6S R6W

R-3956

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 — Date 12/6/88

REGISTERED PROFESSIONAL ENGINEER
JIMMY W SIMS
No. 35458
Exp. 3/31/91
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Parks Department — Date 4-6-89

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck, Public Works Director — Date 8/15/90

REVISIONS			
NO.	DESCRIPTION	APPR.	DATE
1	CONST. 4" CONC. SECTION IN LIEU OF 3" A.C. SECTION PER NOTE #(2)		8/25/90

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LE ROY D. SHOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR — DATE 9-7-89
R.C.E. 14365 — DATE 9-6-89
RECOMMENDED

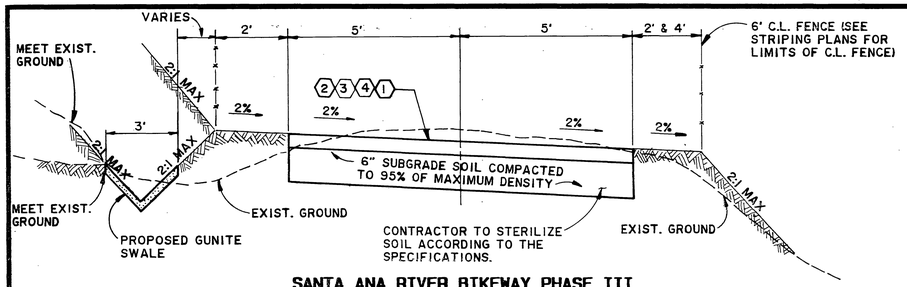
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
TITLE SHEET

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	1 of 19

INDEXED 9/11/96 GH

900-R

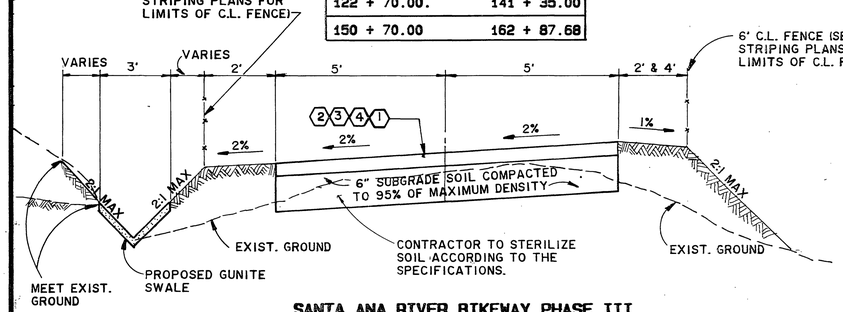
SANTA ANA RIVER BIKEWAY



SANTA ANA RIVER BIKEWAY PHASE III

T.I. = 4.0
NOT TO SCALE

2% STATION	TO	STATION 2%
10 + 00.00		40 + 00.00
42 + 85.00		52 + 25.00
54 + 45.00		59 + 30.00
62 + 55.00		67 + 40.00
68 + 30.00		77 + 85.00
79 + 55.00		82 + 75.00
85 + 30.00		99 + 50.00
103 + 80.00		105 + 95.00
106 + 90.00		121 + 70.00
122 + 70.00.		141 + 35.00
150 + 70.00		162 + 87.68



SANTA ANA RIVER BIKEWAY PHASE III

T.I. = 4.0
NOT TO SCALE

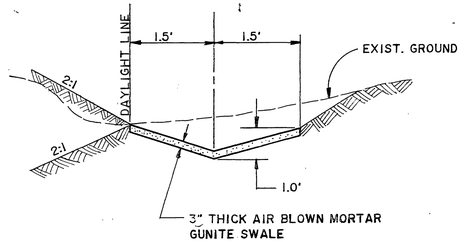
2% STATION	TO	STATION 2%
40 + 33.89		42 + 54.13
52 + 54.22		54 + 12.83
59 + 63.34		62 + 24.45
67 + 70.77		67 + 99.87
78 + 16.87		79 + 26.71
83 + 02.50		85 + 00.00
99 + 81.61		102 + 00.00
106 + 27.01		106 + 59.63
122 + 00.26		122 + 41.62
141 + 63.71		150 + 39.47

CROSSFALL TRANSITION

2% STATION	TO 0%	2% STATION
40 + 00.00	40 + 15.00	40 + 33.89
42 + 85.00	42 + 70.00	42 + 54.13
52 + 25.00	52 + 40.00	52 + 54.22
54 + 45.00	54 + 30.00	54 + 12.83
59 + 30.00	59 + 45.00	59 + 63.34
62 + 55.00	62 + 40.00	62 + 24.45
67 + 40.00	67 + 55.00	67 + 70.77
68 + 30.00	68 + 15.00	67 + 99.87
77 + 85.00	78 + 00.00	78 + 16.87
79 + 55.00	79 + 40.00	79 + 26.71
82 + 75.00	82 + 90.00	83 + 02.50
85 + 30.00	85 + 15.00	85 + 00.00
99 + 50.00	99 + 65.00	99 + 81.61
103 + 80.00	103 + 67.29	102 + 00.00
105 + 95.00	106 + 10.00	106 + 27.01
106 + 90.00	106 + 75.00	106 + 59.63
121 + 70.00	121 + 85.00	122 + 00.26
122 + 70.00	122 + 55.00	122 + 41.62
141 + 35.00	141 + 50.00	141 + 63.71
150 + 70.00	150 + 55.00	150 + 39.47

LIMITS OF CONSTRUCTION

1	STA. 10 + 00	TO	STA. 48 + 80
	STA. 49 + 10	TO	STA 56 + 45
	STA. 56 + 75	TO	STA 63 + 50
	STA. 66 + 00	TO	STA 71 + 75
	STA. 72 + 05	TO	STA 82 + 00
	STA. 83 + 05	TO	STA.93 + 75
	STA. 94 + 50	TO	STA. 162 + 87.68
4	STA. 48 + 80	TO	STA. 49 + 10
	STA. 56 + 45	TO	STA. 56 + 75
	STA. 63 + 50	TO	STA. 66 + 00
	STA. 71 + 75	TO	STA. 72 + 05
	STA. 93 + 75	TO	STA. 94 + 50
3	STA. 82 + 00	TO	STA. 83 + 05
23	STA. 104 + 25	TO	STA. 139 + 50



TYPICAL GUNITE SWALE

N.T.S.

LIMITS OF GUNITE SWALE

SOUTHSIDE	NORTHSIDE
STA. 34 + 90 TO STA. 42 + 75	

CONSTRUCTION NOTES & ESTIMATED QUANTITIES

2024

NO.	ITEM DESCRIPTION	ESTIMATED TOTAL	QUANTITY UNIT
1	CONSTRUCT 3" A.C. OVER 6" SUBGRADE SOIL PER PLAN & PROFILE HEREON AND PER TYPICAL SECTION ON SHEET 2.	1373.38	TONS
2	CONSTRUCT 4" CONCRETE SECTION IN LIEU OF 3" A.C. SECTION.	36,145.7	SQ. FT.
3	CONSTRUCT 6.5" REINFORCED P.C.C. PAVEMENT OVER 6" SUBGRADE SOIL PER PLAN & PER SECTION F-F. (SEE SHEET 7)	1830	SQ. FT.
4	CONSTRUCT 3.5" P.C.C. PAVEMENT OVER 6" SUBGRADE SOIL PER PLAN & PER SECTIONS D-D & L-L (SEE SHEET 5)	4980	SQ. FT.
7	CONSTRUCT CONCRETED ROCK SLOPE PROTECTION (AIR BLOWN MORTAR CONCRETE), PER PLAN & PER SHEET 2.	370	C.Y.
8	PROTECT EXISTING FENCE IN PLACE.		
9	CONSTRUCT TYPE IX INLET (MODIFIED) WITH CONICAL RACK PER R.C.F.C. STD. DWG CB107 & PER SHTS. 14 & 14A.	4	EA.
10	CONSTRUCT 37.00 L.F. OF 36" C.M.P. (LINE "H") PER PLAN & PER SHEET 14.	37.00	L.F.
11	CONSTRUCT 31.00 L.F. OF 36" C.M.P. (LINE "I") PER PLAN & PER SHEET 14.	31.00	L.F.
12	ADJUST SEWER MANHOLE TO GRADE.	7	EA.
13			
14	CONSTRUCT 1/4 TON RIP-RAP x 2' THICK.	8200	TONS
15	CONSTRUCT LIGHT CLASS RIP-RAP x 1.5' THICK.	150	TONS
16	CONSTRUCT AIR BLOWN MORTAR(GUNITE SWALE) PER PLAN & PER SHEET 2.	27	C.Y.
17	CONSTRUCT 6' CHAIN LINK FENCE.	1810	L.F.
18	CONSTRUCT 36.00 L.F. OF DOUBLE 48" C.M.P. (LINE "J") PER PLAN & PER SHEET 14.	72.00	L.F.
19	CONSTRUCT 30.00 L.F. OF 30" C.M.P. (LINE "K") PER PLAN & PER SHEET 14.	30.00	L.F.
20	CONSTRUCT 42.00 L.F. OF 30" C.M.P. (LINE "A") PER PLAN & PER SHEET 13.	42.00	L.F.
21	CONSTRUCT 32.00' L.F. OF 36" C.M.P. (LINE "L") PER PLAN & PER SHEET 14.	32.00	L.F.
22	CONSTRUCT 51.00' L.F. 36" C.M.P. (LINE "M") PER PLAN & PER SHEET 14A.	51.00	L.F.
23	CONSTRUCT 3" A.C. OVER SMOOTH LEVEE SURFACE PER PLAN & PER TYPICAL SECTION ON SHEETS 9,10 & 11.	635	TONS
24	CONSTRUCT 53' L.F. OF 36" C.M.P. (LINE"N") PER PLAN & PER SHEET 14A.	53.00	L.F.
25	CONSRUCT 94' L.F. OF DOUBLE 36" C.M.P. (LINE "O") PER PLAN & PER SHEET 14A.	188.00	L.F.
27	CONSTRUCT 30' L.F. OF 18" C.M.P. (LINE"Q") PER PLAN & PER SHEET 14A.	30.00	L.F.

REGISTERED PROFESSIONAL ENGINEER LE ROY D. SMOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

AS BUILT
CONSTRUCTION BY J. Kennedy
CONTRACT NO. 82-7810
R-3456

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of: Jimmy W Sits
Registered Engineer No. 35458 Date 12/16/92

REGISTERED PROFESSIONAL ENGINEER JIMMY W SITS No. 35458 Exp. 9/30/93 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck
Barry Beck, Public Works Department Date 8/15/91

NO.	DESCRIPTION	APPR.	DATE
	REVISIONS		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR, R.C.E. 14365 — DATE 9-7-89
RECOMMENDED — DATE 9-6-89

SANTA ANA RIVER BIKEWAY PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
TYPICAL SECTIONS & ESTIMATED QUANTITIES

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	2 of 19

INDEXED 9/11/96 GH

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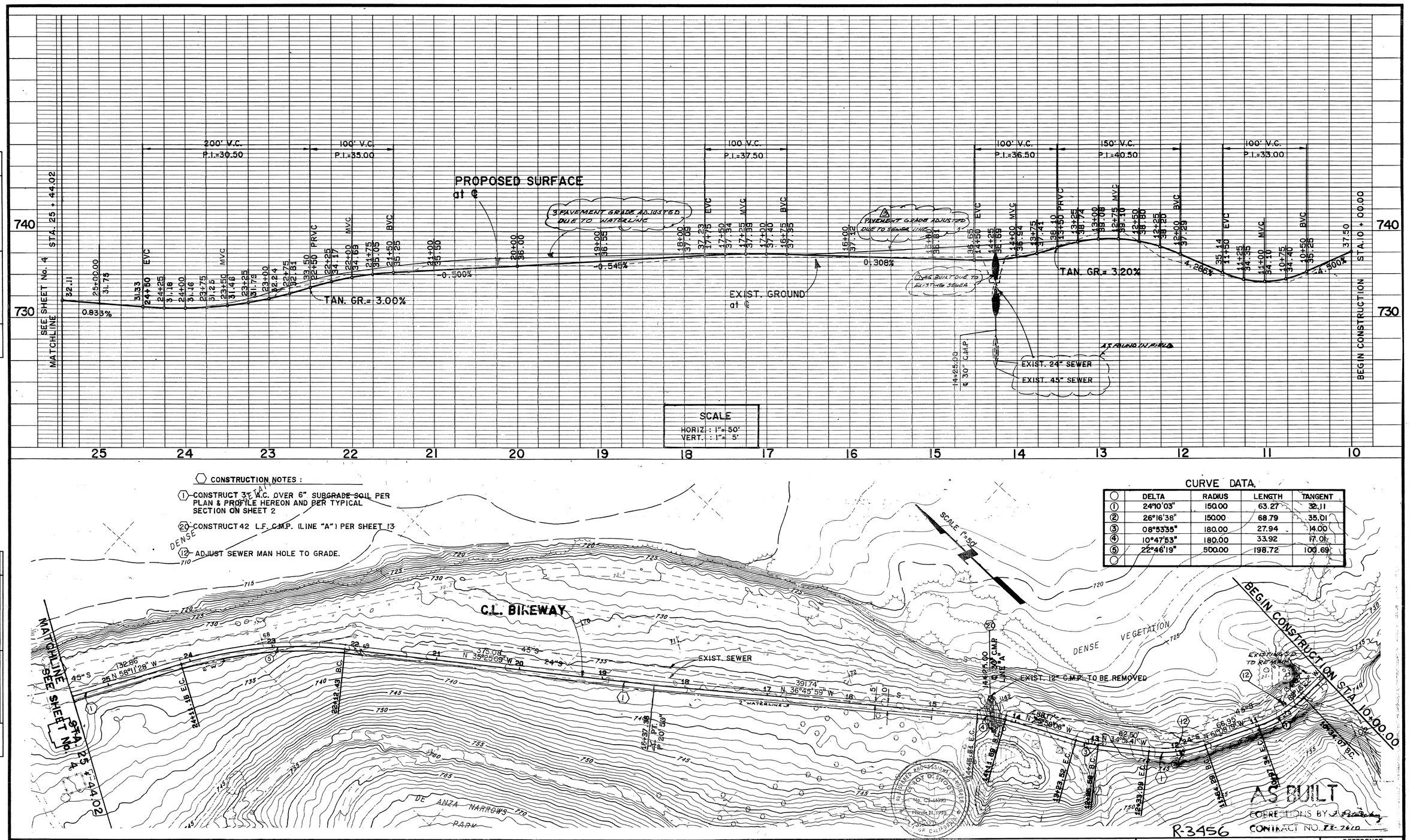


CONSTRUCTION NOTES :

1. CONSTRUCT 3" A.C. OVER 6" SUBGRADE SOIL PER PLAN & PROFILE HEREON AND PER TYPICAL SECTION ON SHEET 2
20. CONSTRUCT 42 L.F. C.M.P. (LINE "A") PER SHEET 13
12. ADJUST SEWER MAN HOLE TO GRADE.

CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
1	24°10'03"	150.00	63.27	32.11
2	26°16'38"	150.00	68.79	35.01
3	08°53'35"	180.00	27.94	14.00
4	10°47'53"	180.00	33.92	17.01
5	22°46'19"	500.00	198.72	100.69

AS BUILT
CORRECTIONS BY J. Petersky
CONTRACT NO. 72-7610

R-3456

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, B.M.'s NOTED, STRUCTURE NOTATNS CHK'D — NOTE BOOK NO. — BY — DATE

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of: Jimmy W. Sim
Registered Engineer No. 35458 Date 12/16/88

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

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul A. Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS

NO.	DESCRIPTION	APPR.	DATE
3	AS BUILT FINISHED GRADE ADJUSTED		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 10 + 10.00 TO STA 25 + 44.02

REFERENCE
W. O. NO.
ROAD NO.
SURVEY NO.
F. B. NO.
SHEET 3 of 19

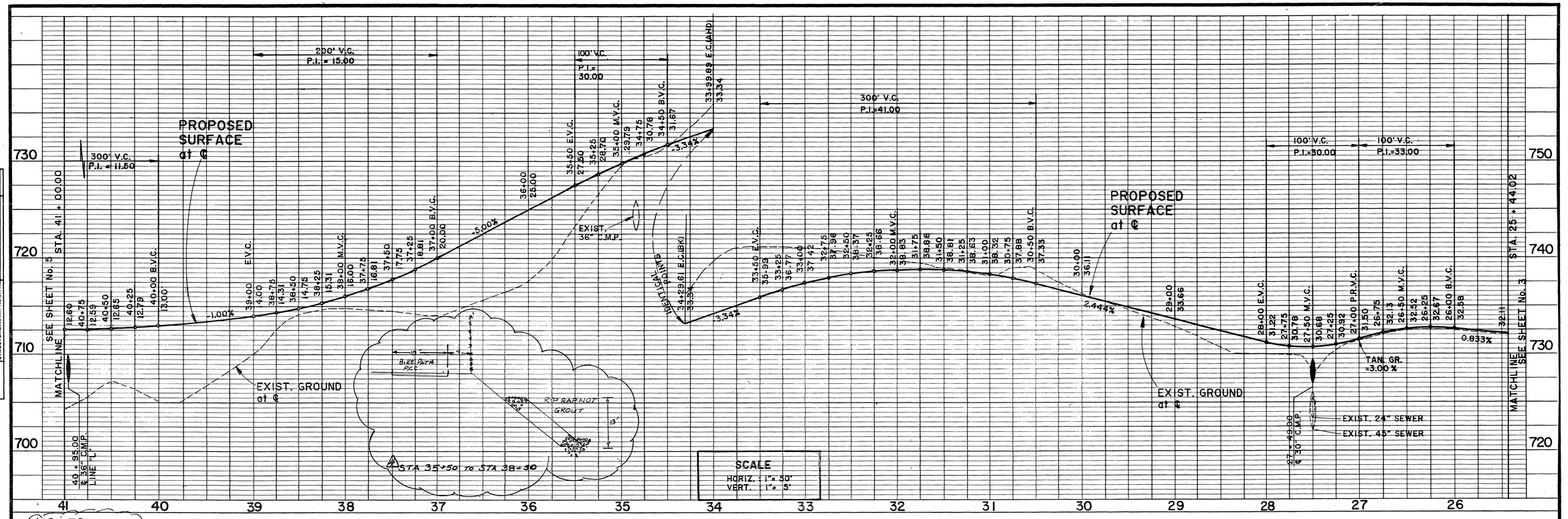
INDEXED 9/11/96 LH

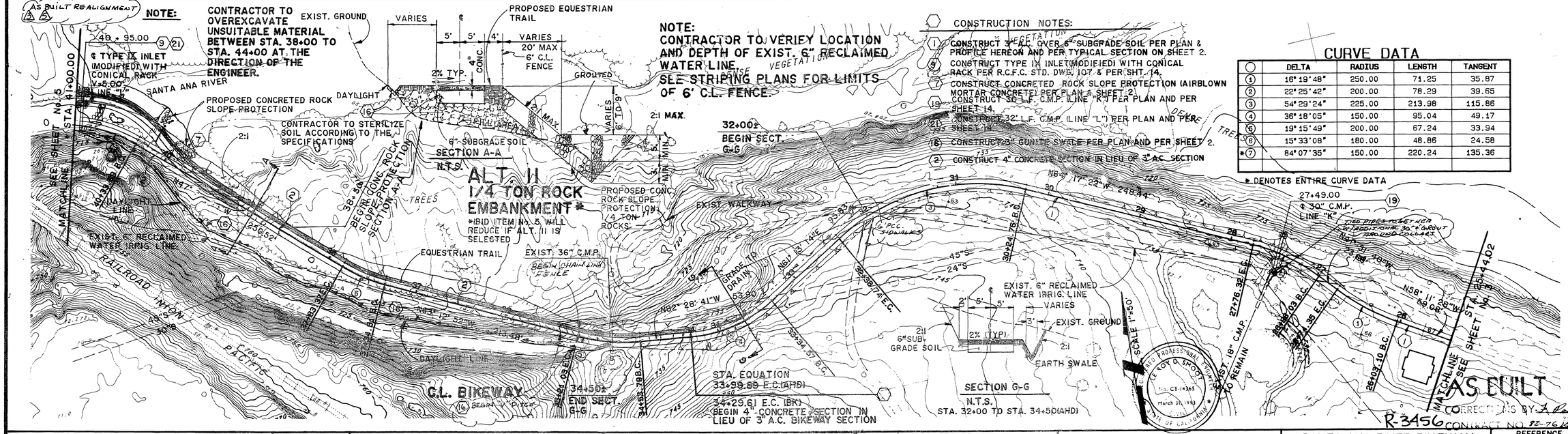
900-R

SANTA ANA RIVER BIKEWAY

PROFILE | SURVEYED | PLOTTED | NOTE BOOK | NO. | BY | DATE | ALIGNMENT CHECKED | BASIS OF MAP | STRUCTURE NOTATNS. CHKD.

PLAN | SURVEYED | PLOTTED | NOTE BOOK | NO. | BY | DATE | ALIGNMENT CHECKED | BASIS OF MAP CHECKED





J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of: Jimmy W. Stites
Registered Engineer No. 35458 Date 12/18/90

REGISTERED PROFESSIONAL ENGINEER JIMMY W. STITES No. 35458 Exp. 3/31/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Ron O Ramos 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 5/15/90
Barry Beck, Public Works Department Date

REVISIONS

NO.	DESCRIPTION	APPR.	DATE
3	AS BUILT FINISHED GRADE ADJUSTM		
4	AS BUILT ADD'L RIP RAP		
5	AS BUILT REALIGNMENT		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SPOONER, ROAD COMMISSIONER AND COUNTY SURVEYOR — 9-7-89 DATE
R.C.E. 14365
RECOMMENDED — 8-8-89 DATE

LEROY D. SPOONER No. CE-14365 March 31, 1993 REGISTERED PROFESSIONAL ENGINEER STATE OF CALIFORNIA

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 25 + 44.02 TO STA 41 + 00.00

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	4 of 19

R-3456 CONTRACT NO. 92-76-12

INDEXED 9/11/96 LH 900-R

87 04977 SANTA ANA RIVER BIKEWAY SHT. 5

PROFILE — SURVEYED | PLOTTED | NOTE BOOK | NO. | DRAWING CHECKED | R/W'S NOTED | STRUCTURE NOTATIONS CHKD | BY | DATE

SEE SHEET No. 6 STA. 56 + 50.00

MATCHLINE

750
740
730
720

100' V.C.
P.I.=20.90

21.08 M.V.C.
56+25 21.08
56+00 B.V.C. 21.19
55+00 21.76
54+00 22.32
53+00 22.88
52+00 23.44
51+50 E.V.C. 23.72
51+25 23.83
51+00 M.V.C. 23.88
50+75 23.88
50+50 B.V.C. 23.82
50+00 23.64
49+10 END SECT. D-D & L-L 23.28
49+00 23.28
48+95 ℄ SECT. D-D & L-L 23.28
48+80 BEGIN SECT. D-D & L-L 23.28
48+00 22.92
47+40.13 (BK) 22.43
47+00 22.34
47+00 22.56
46+80.68 (AHD) 22.49
46+50 E.V.C. 22.16
46+25 22.04
46+00 M.V.C. 21.84
45+75 21.58
45+50 B.V.C. 21.25
45+25 20.84
45+00 20.37
44+75 19.83
44+50 B.V.C. 19.22
44+00 E.V.C. 17.95
43+00 E.V.C. 15.37
42+75 14.76
42+50 14.23
42+25 13.77
42+00 13.39
41+75 13.08
41+50 M.V.C. 12.84
41+25 12.68
12.60

.56%
.36%
.36%
2.58%

PROPOSED SURFACE at ℄
EXIST. GROUND at ℄
EXIST. GROUND AT ℄
EXIST. 24" SEWER
EXIST. 45" SEWER
IDENTICAL POINTS
45+25.00 DOUBLE 48" C.M.P.
42+76.00 ℄ 36" C.M.P.
100' V.C. P.I.=24.00
200' V.C. P.I.=21.80
300' V.C. P.I.=11.50
UNION PACIFIC RAILROAD BRIDGE

SCALE
HORIZ. : 1"= 50'
VERT. : 1"= 5'

STA. 41 + 00.00 SEE SHEET No. 4

SECTION D-D
CONCRETE PAVEMENT
N.T.S.

12' 5' ℄ 5' 12' 3.5" P.C.C. 2% (TYP.) EXIST. GROUND EXIST. GROUND 12" x 6" CUTOFF WALL 12" x 6" CUTOFF WALL 6" SUBGRADE SOIL

PLAN VIEW
P.C.C. (TYP.)
N.T.S.

30' 15' 15' 10' D D L L

SECTION L-L
P.C.C. SWALE
N.T.S.

30' 15' 15' 3" A.C. 3" A.C. 3.5" P.C.C. 6" SUBGRADE SOIL

CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
(3)	84°07'35"	150.00	220.24	135.36
(4)	28°42'16"	150.00	75.15	38.38
(5)	37°12'03"	180.00	116.87	60.58
(6)	60°35'03"	150.00	158.61	87.63
(7)	58°43'40"	180.00	184.50	100.28

# DENOTES ENTIRE CURVE DATA

CONSTRUCTION NOTES :

(1) — CONSTRUCT 3" A.C. OVER 6" SUBGRADE SOIL PER PLAN & PROFILE HEREON AND PER TYPICAL SECTION ON SHEET 2
(2) — CONSTRUCT 4" CONCRETE SECTION IN LIEU OF 3" A.C. SECTION
(4) — CONSTRUCT 3.5" P.C.C. PAVEMENT OVER 6" SUBGRADE SOIL PER PLAN & PER SECTIONS D-D & L-L
(5) — CONSTRUCT TYPE IX INLET (MODIFIED) WITH CONICAL RACK PER R.C.F.C. STD. DWG. CB107 & PER SHEET 14A.
(6) — CONSTRUCT 3" GUNITE SWALE PER PLAN & PER SHEET 2.
(7) — CONSTRUCT CONCRETE ROCK SLOPE PROTECTION (AIR BLOWN MORTAR CONCRETE) PER PLAN, PER SHT. 2.
(10) — CONSTRUCT 37 L.F. C.M.P. (LINE "H") PER PLAN & PER SHEET 14.
(12) — ADJUST SEWER MANHOLE TO GRADE.
(16) — CONSTRUCT 36 L.F./DOUBLE CMP (LINE J) PER PLAN & PER SHEET 14.

EXISTING 14" CSD SEWER MAIN
EXIST. 6" RECLAIMED WATER IRRIG. LINE
CONTRACTOR TO OVER EXCAVATE UNSUITABLE MATERIAL BETWEEN STA. 38+00 TO STA. 44+00 AT THE DIRECTION OF THE ENGINEER
CONTRACTOR TO STERILIZE SOIL ACCORDING TO THE SPECIFICATIONS.
GRADE TO DRAIN
BEGIN SECT. K-K STA. 47+40.13 END SECT. K-K
N 59°35'35" E 212.07'
STA. 56+50.00
STA. 38+00.00
2% MAX VARIES
5' 8' 2' 2% TYP 2:1 MAX
MEET EXIST. 6" SUBGRADE SOIL
EXIST. GROUND
SECTION K-K
N.T.S.

ALT. II
1/4 TON ROCK EMBANKMENT*
*(BID ITEM No. 5 WILL REDUCE IF ALT. II IS SELECTED)

C.L. BIKEWAY
STA. 47+40.13 E.C. (BK)= 46+80.68 B.C. (AHD) END CONC. SECT. IN LIEU OF 3" A.C. BIKEWAY
N 54°59'25" E 483.54'

SECTION A-A
N.T.S.

VARIES 5' 5' 4' VARIES 20' MAX 6' CL. FENCE 6" SUB GRADE SOIL 2% (TYP.) 4" CONC. GROUTED RIP RAP 2:1 MAX 6" MIN. 12" MIN. VARIES 6" MIN. 12" MIN. 2:1 MAX
PROPOSED EQUESTRIAN TRAIL
EXISTING 14" CSD. SEWER MAIN
PROPOSED CONC. ROCK SLOPE PROTECTION 1/4 TON ROCKS
PROPOSED EQUESTRIAN TRAIL
45+25.00 ℄ DBL. 48" C.M.P. LINE "J"
43+50 CONC. ROCK SLOPE PROTECTION SECTION A-A
VEGETATION

SCALE 1"=50'
SANTA ANA RIVER
PROPOSED CONCRETED ROCK SLOPE PROTECTION AS BUILT REALIGNMENT
UNION PACIFIC RAILROAD
20' DRIVING SURFACE
12' DIRT HORSE TRAIL
DAYLIGHT LINE
EXIST. 6" RECLAIMED WATER IRRIGATION LINE
EXIST. 24" C.M.P.
44+50.00 BEGIN SECT. D-D
45"S
30"S
EXIST. SEWER LINE
AS BUILT
CONTRACT NO. 3 dated 12-7-90

NOTE: SEE STRIPING PLANS FOR LIMITS OF 6' CL. FENCE

NOTE: CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXIST. 6" RECLAIMED WATER LINE. & 14" C.S.D. SEWAGE FORCEMAIN

PLAN — SURVEYED | PLOTTED | NOTE BOOK | NO. | DRAWING CHECKED | R/W OF WAY CHECKED | BY | DATE

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of
Registered Engineer No. 35458 Date 12/16/88

REGISTERED PROFESSIONAL ENGINEER JIMMY W. SIMS No. 35458 Exp. 3/31/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul O Romero 12.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/1/90
Barry Beck, Public Works Department Date

NO.	DESCRIPTION	APPR.	DATE
1	SHOW EXISTING 14" SEWER MAIN		12-90
2	AS BUILT REALIGNMENT		
3	AS BUILT HORSE RAMPS		
4	AS BUILT ADD'T CHAINLINK		

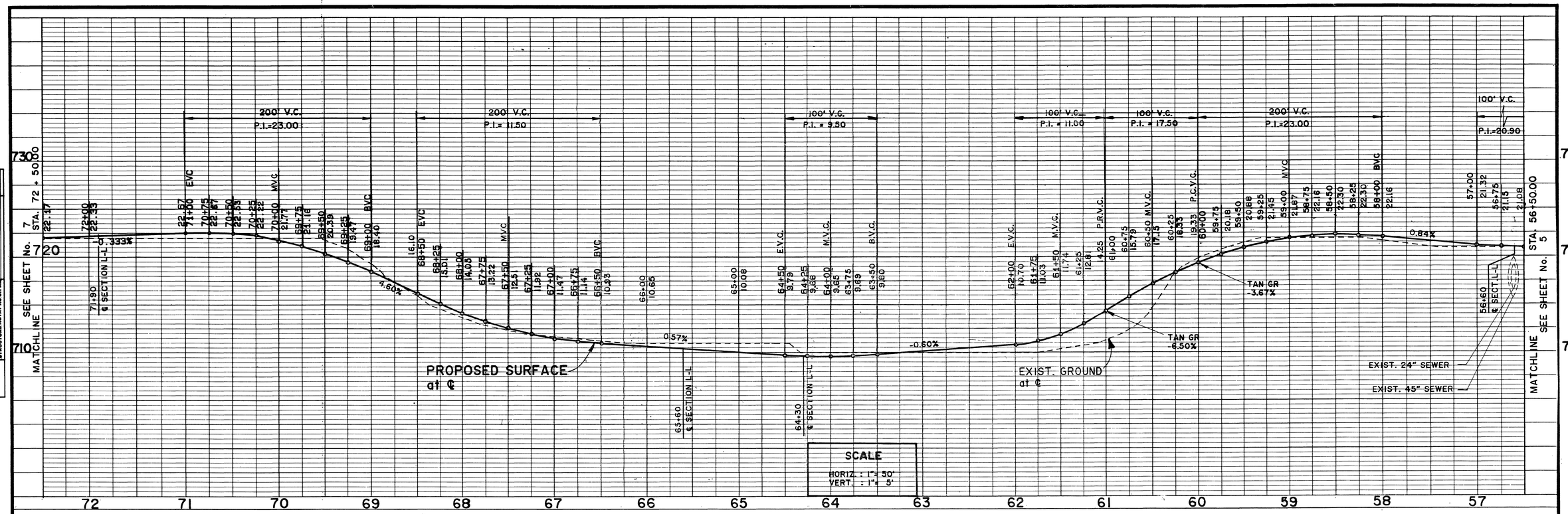
COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMITH, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

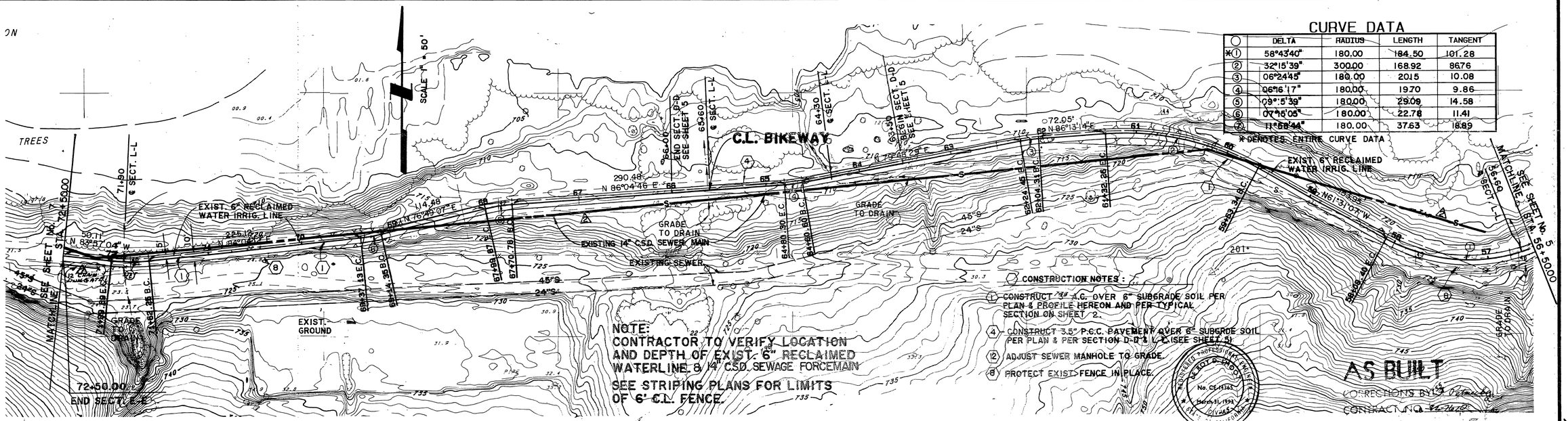
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 41 + 00.00 TO STA 56 + 50.00

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	5 of 19

R 3456

INDEXED 9/11/96 4H 900-R





CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
*①	58°43'40"	180.00	184.50	101.28
②	32°15'39"	300.00	168.92	86.76
③	06°24'45"	180.00	20.15	10.08
④	06°16'17"	180.00	19.70	9.86
⑤	09°15'39"	180.00	29.09	14.58
⑥	07°15'05"	180.00	22.78	11.41
⑦	11°58'44"	180.00	37.63	18.89

*DENOTES ENTIRE CURVE DATA

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXIST. 6" RECLAIMED WATERLINE & 14" C.S.D. SEWAGE FORCEMAIN
SEE STRIPING PLANS FOR LIMITS OF 6' C.L. FENCE.

CONSTRUCTION NOTES:

1. CONSTRUCT 3" A.C. OVER 6" SUBGRADE SOIL PER PLAN & PROFILE HEREON AND PER TYPICAL SECTION ON SHEET 2.
4. CONSTRUCT 3.5" P.C.C. PAVEMENT OVER 6" SUBGRDE SOIL PER PLAN & PER SECTION D-D & L-L (SEE SHEET 5)
12. ADJUST SEWER MANHOLE TO GRADE.
8. PROTECT EXIST. FENCE IN PLACE.

AS BUILT
CORRECTIONS BY
CONTRACT NO.

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/14/88

REGISTERED PROFESSIONAL ENGINEER JIMMY W. SIMS No. 35458 Exp. 2/30/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul A. Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS

NO.	DESCRIPTION	APPR.	DATE
2	SHOW EXISTING 14" SEWER MAIN		12-90
1	AS BUILT ACCESS GATE		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 9-7-89 DATE
RECOMMENDED 9-6-89 DATE

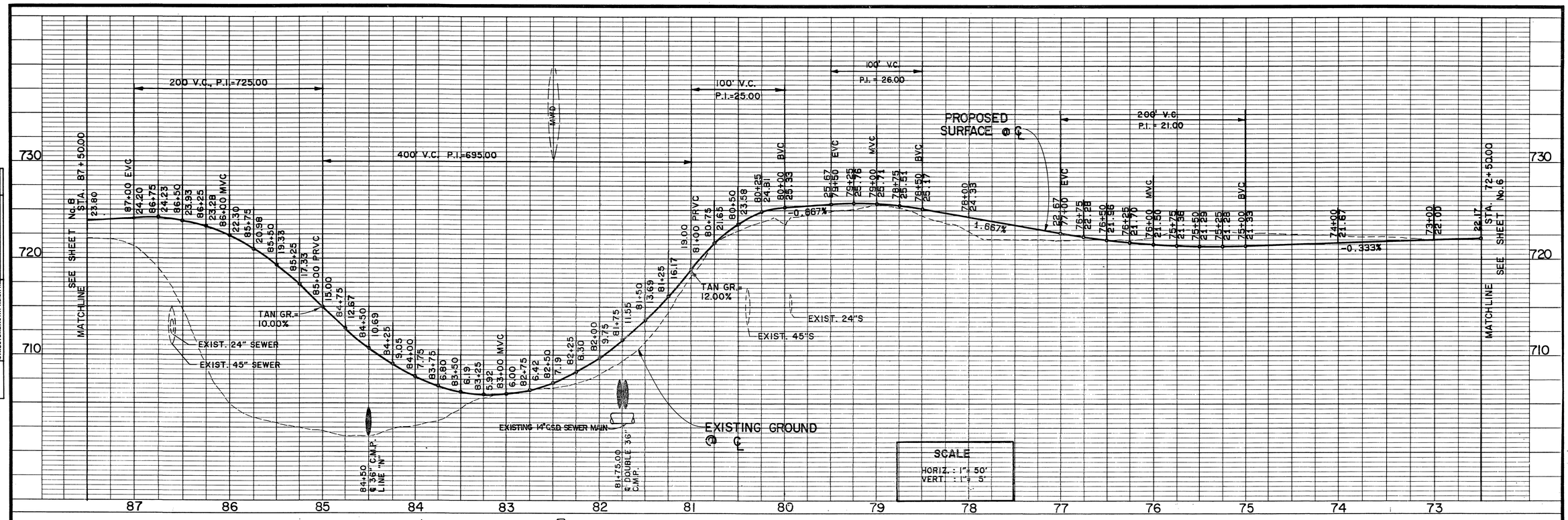
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 56 + 50.00 TO STA 72 + 50.00

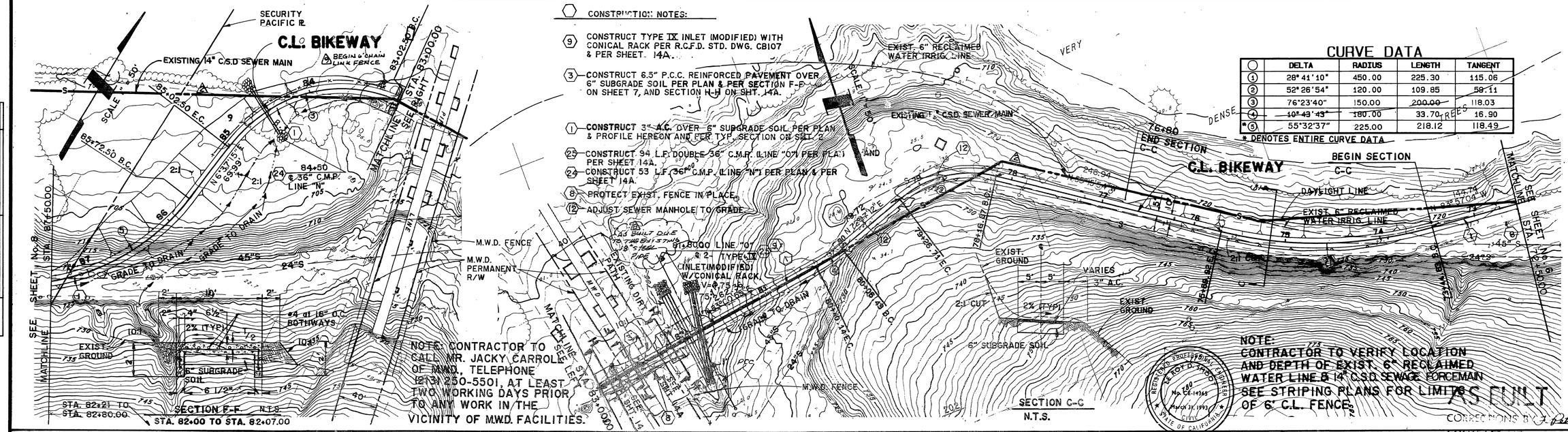
REFERENCE
W. O. NO.
ROAD NO.
SURVEY NO.
F. B. NO.
SHEET 6 of 19

R-3456

INDEXED 9/11/96 4H 900-R

SANTA ANA RIVER BIKEWAY





CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
(1)	28°41'10"	450.00	225.30	115.06
(2)	52°26'54"	120.00	109.85	58.11
(3)	76°23'40"	150.00	200.00	118.03
(4)	10°43'43"	180.00	33.70	16.90
*(5)	55°32'37"	225.00	218.12	118.49

* DENOTES ENTIRE CURVE DATA

PROFILE — SURVEYED, PLOTTED, DRAWN, CHECKED, B. M.'s NOTED, STRUCTURE NOTATING CHANGE — BY — DATE — NOTE BOOK — NO.

PLAN — SURVEYED, PLOTTED, DRAWN, CHECKED, ALIGNMENT CHECKED, RT. OF WAY CHECKED — BY — DATE — NOTE BOOK — NO.

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/5/88

REGISTERED PROFESSIONAL ENGINEER JIMMY W. STARR No. 35458 Exp. 7/31/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D. Romero 4.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/89
Barry Beck, Public Works Department Date

NO.	DESCRIPTION	APPR.	DATE
A	SHOW EXISTING 14" SEWER MAIN		12-90
B	AS BUILT CMP ALIGNMENT		
C	AS BUILT ADD'N & CHAIN LINK		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, County Commissioner and County Surveyor R.C.E. 14365
RECOMMENDED 9-7-89 DATE
APPROVED 9-6-89 DATE

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 72 + 50.00 TO STA 87 + 50.00

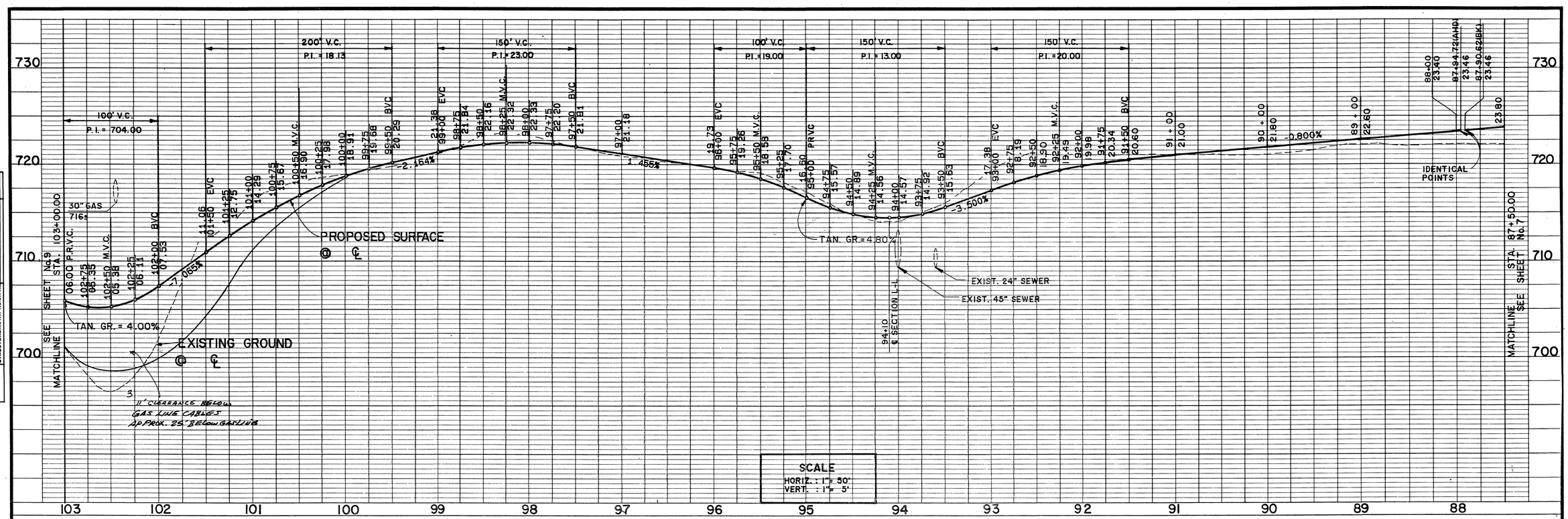
CONTRACT NO. REFERENCE 82-700

W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	7 of 19

R-3456

INDEXED 9/11/96 4H 900-R

SANTA ANA RIVER BIKEWAY



CONSTRUCTION NOTES:

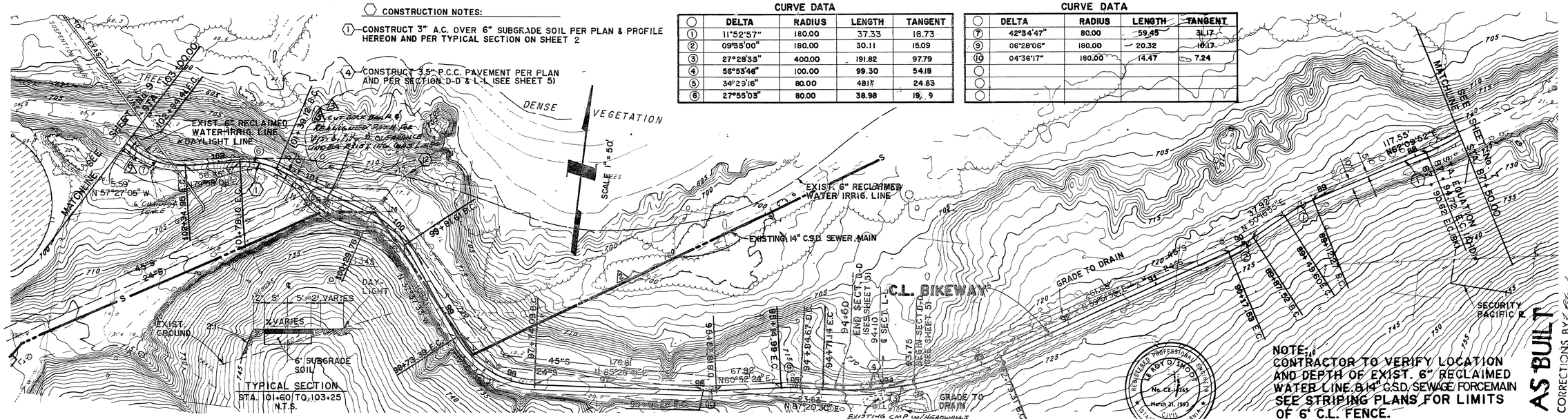
1. CONSTRUCT 3" A.C. OVER 6" SUBGRADE SOIL PER PLAN & PROFILE HEREON AND PER TYPICAL SECTION ON SHEET 2
4. CONSTRUCT 3.5" P.C.C. PAVEMENT PER PLAN AND PER SECTION D-D & L-L (SEE SHEET 5)

CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
1	11°52'57"	180.00	37.33	18.73
2	09°35'00"	180.00	30.11	15.09
3	27°28'35"	400.00	191.82	97.79
4	56°53'46"	100.00	99.30	54.18
5	34°29'16"	80.00	48.17	24.83
6	27°55'03"	80.00	38.98	19.[illegible]9

CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
7	42°34'47"	80.00	59.45	31.17
9	06°28'06"	180.00	20.32	10.17
10	04°36'17"	180.00	14.47	7.24



NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXIST. 6" RECLAIMED WATER LINE & 14" C.S.D. SEWAGE FORCEMAIN
SEE STRIPING PLANS FOR LIMITS OF 6' C.L. FENCE.

AS BUILT
CORRECTIONS BY
CONTRACT NO.

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M.'s NOTED / STRUCTURE NOTATIONS CHK'D. — NOTE BOOK NO. — BY — DATE

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of: [signature]
Registered Engineer No. 35458 Date 12/16/88

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

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: [signature] 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: [signature] 8/15/90
Barry Beck, Public Works Department Date

REVISIONS

NO.	DESCRIPTION	APPR.	DATE
2	SHOW EXISTING 14" SEWER MAIN		12-90
3	AS BUILT REALIGNMENT		
4	AS BUILT FINISHED GRADE ADJ.		
5	AS BUILT ADD'T CHAIN LINK		

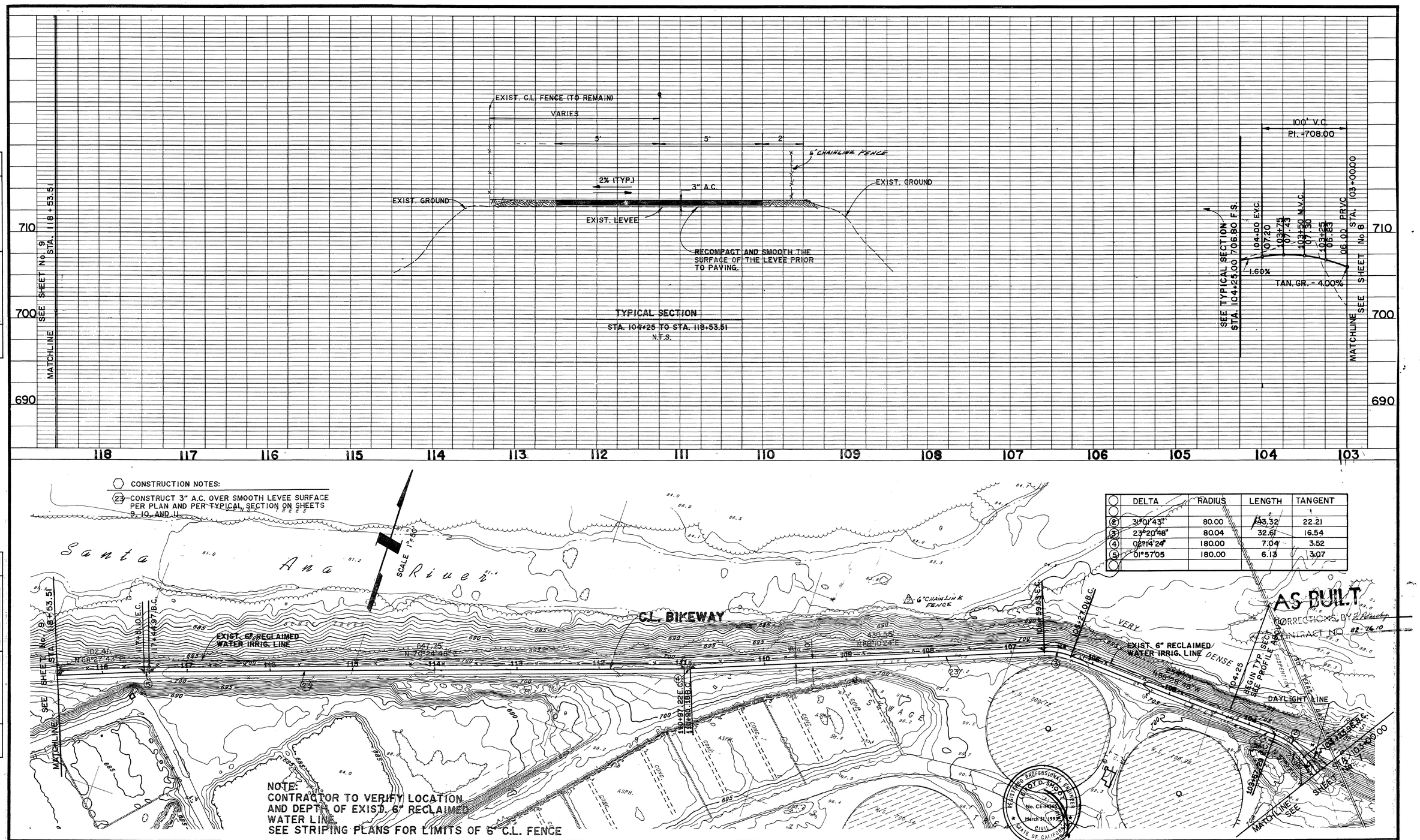
COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 87 + 50.00 TO STA 103 + 00.00

REFERENCE
W. O. NO.
ROAD NO.
SURVEY NO.
F. B. NO.
SHEET 8 of 19

R-3456

INDEXED 9/11/96 LH 900-R



	DELTA	RADIUS	LENGTH	TANGENT
2	31°01'43"	80.00	43.32	22.21
3	23°20'48"	80.04	32.61	16.54
4	02°14'24"	180.00	7.04	3.52
5	01°57'05	180.00	6.13	3.07

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M.'s NOTED / STRUCTURE NOTATNS CHK'D — NOTE BOOK NO. — BY — DATE

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED — NOTE BOOK NO. — BY — DATE

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/16/88

REGISTERED PROFESSIONAL ENGINEER JIMMY W. SMITH No. 35458 Exp. 2/30/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS
9 AS BUILT ADD'L CHAINLINK

NO.	DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — DATE 9-7-89
RECOMMENDED — DATE 9-6-89

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 103 + 00.00 TO STA 118 + 53.50

REFERENCE
W. O. NO.
ROAD NO.
SURVEY NO.
F. B. NO.
SHEET 9 of 19

R3456

INDEXED 9/11/96 4H 900-R

BT 04477 SHT. 10
SANTA ANA RIVER BIKEWAY

PROFILE	
SURVEYED	
PLOTTED	
NOTE BOOK	DRAWN BY
NO.	CHECKED
	R. W.'s NOTED
	STRUCTURE NOTATING CHKD.

DATE	BY

710
700
690

MATCHLINE SEE SHEET No. 11 STA. 133 + 50.00

EXIST. C.L. FENCE (TO REMAIN)
VARIES
5'
5'
6' CHAIN LINK FENCE
2% (TYP.)
3" A.C.
EXIST. GROUND
EXIST. GROUND
EXIST. LEVEE
RECOMPACT AND SMOOTH THE SURFACE OF THE LEVEE PRIOR TO PAVING.

TYPICAL SECTION
STA. 118+53.51 TO STA. 133+50.00
N.T.S.

MATCHLINE SEE SHEET No. 9 STA. 118 + 53.51

710
700
690

133 132 131 130 129 128 127 126 125 124 123 122 121 120 119

DENSE VEGETATION

CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
1	13°09'52"	180.00	41.36	20.77
*2	02°04'11"	180.00	6.50	3.25

SCALE 1" = 50'

CONSTRUCTION NOTES:
23 CONSTRUCT 3" A.C. OVER SMOOTH LEVEE SURFACE PER PLAN AND PER TYPICAL SECTION ON SHEETS 9, 10, AND 11.

AS BUILT
CORRECTIONS BY
CONTRACT NO. 92-7610

C.L. BIKEWAY
6' CHAIN LINK FENCE
6' CHAIN LINK GATE
EXIST. 6" RECLAIMED WATER IRRIG. LINE
EXIST. 6" RECLAIMED WATER IRRIG. LINE
17.71'73" N 57°08'02" E
440.25'
N 70°08'53" E
41.62' P.C.
24.8' P.C.
4 PT CURVE
MATCHLINE SEE SHEET No. 9 STA. 118+53.51 B.C.
SEE SHEET No. 11 STA. 133+50.00

NOTE:
CONTRACTOR TO VERIFY LOCATION AND DEPTH OF EXIST. 6" RECLAIMED WATER LINE.
SEE STRIPING PLANS FOR LIMITS OF 6' C.L. FENCE

REGISTERED PROFESSIONAL ENGINEER LEROY D. SMOOT No. 14360 CIVIL STATE OF CALIFORNIA March 31, 1993

PLAN	
SURVEYED	
PLOTTED	
NOTE BOOK	ALIGNMENT CHECKED
NO.	RT. OF WAY CHECKED

DATE	BY

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/6/88

REGISTERED PROFESSIONAL ENGINEER JIMMY H. SYAS No. 35458 Exp. 2/30/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D. Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS			
NO.	DESCRIPTION	APPR.	DATE
1	AS BUILT ADD'L CHAIN LINK		
2	AS BUILT ACCESS GATE		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.E. 14360 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 118 + 53.51 TO STA 133 + 50.00

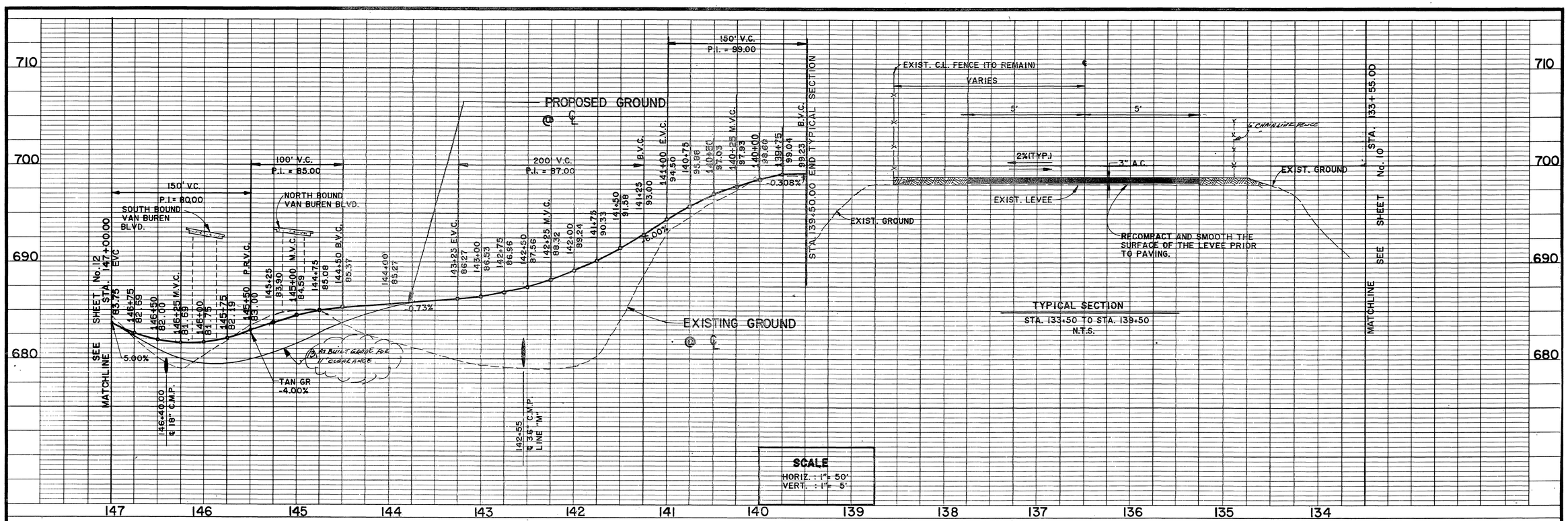
REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET 10 of 19	

R-3456

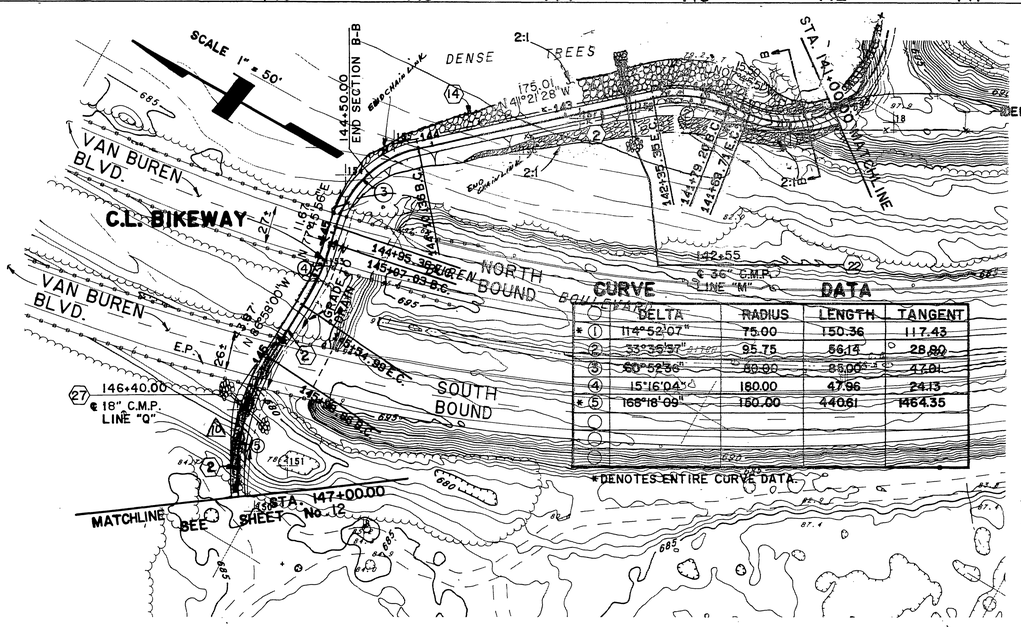
INDEXED 9/11/96 4H 900-R

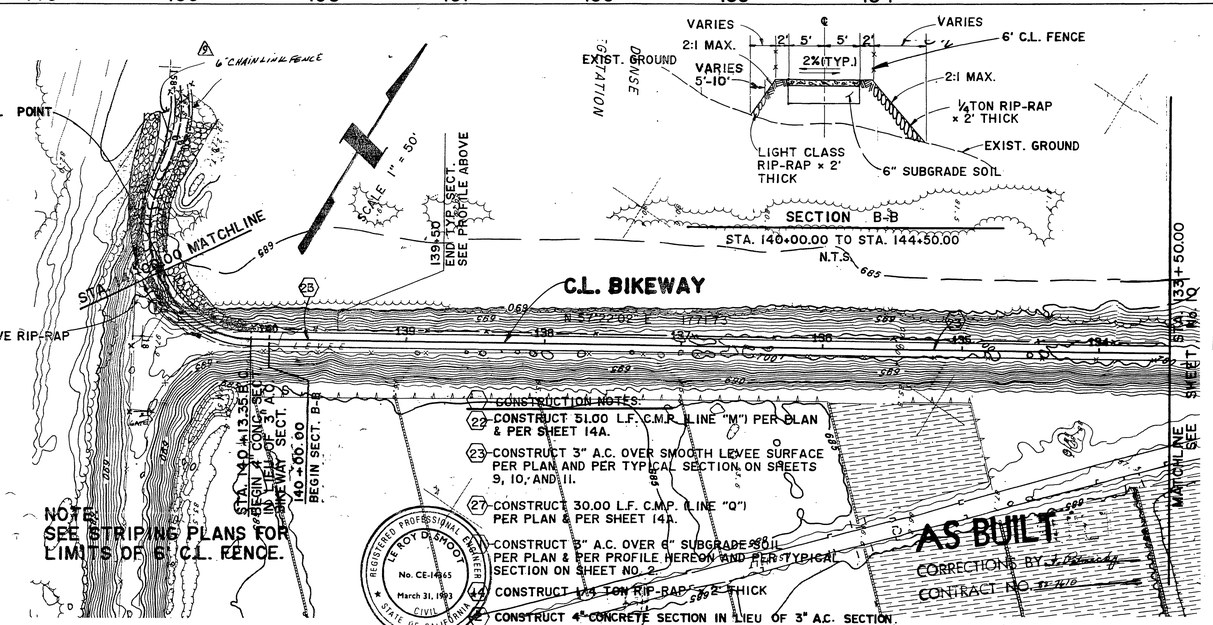
87 09977
SANTA ANA RIVER BIKEWAY
SHT. 11

PROFILE | SURVEYED | PLOTTED | NOTE BOOK | DESIGNED | CHECKED | NO. | B. M.'s NOTED | STRUCTURE NOTATIONS CHKD. | BY | DATE



PLAN | SURVEYED | PLOTTED | NOTE BOOK | ALIGNMENT CHECKED | NO. | RT. OF WAY CHECKED | BY | DATE





PLAN | SURVEYED | PLOTTED | NOTE BOOK | ALIGNMENT CHECKED | NO. | RT. OF WAY CHECKED | BY | DATE

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/8/88

REGISTERED PROFESSIONAL ENGINEER — JEFFREY W. DAVIDSON — No 35458 — Exp 3/30/91 — CIVIL — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D. Romero 4.6.89 Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/89
Barry Beck, Public Works Department Date

NO.	REVISIONS	APPR.	DATE
1	AS BUILT ADD'T CHAIN LINK		
2	AS BUILT FINISHED GRADE ADJ.		
3	AS BUILT .15' A.C. OVERLAY		

REGISTERED PROFESSIONAL ENGINEER — LE ROY D. SHOOT — No. CE-14365 — March 31, 1993 — CIVIL — STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LE ROY D. SHOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR, R.C.E. 14365 — 5-7-89 DATE
RECOMMENDED — 9-6-89 DATE

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 133+50.00 TO STA 147+00.00

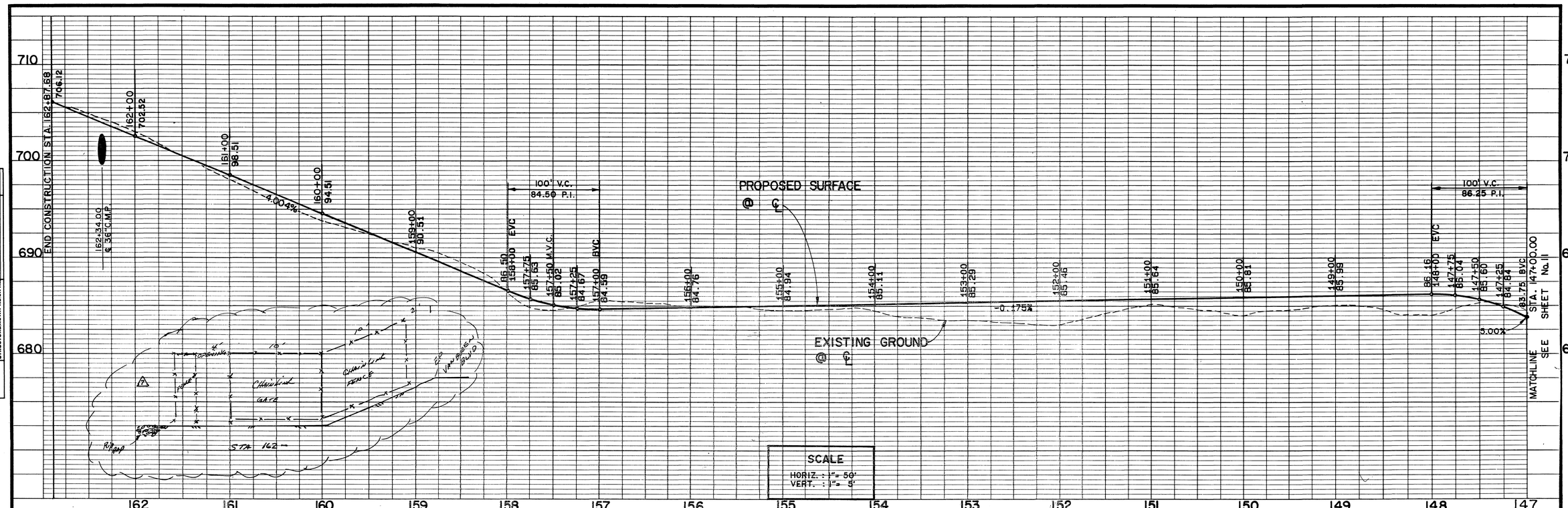
REFERENCE	
W.O. NO.	
ROAD NO.	
SURVEY NO.	
F.B. NO.	
SHEET	11 of 19

R-3456

INDEXED 9/11/96 LH

900-R

PROFILE | SURVEYED | PLOTTED | NOTE BOOK | NO. | CHECKED | R. M.'s NOTED | STRUCTURE NOTATING CHKD | BY | DATE

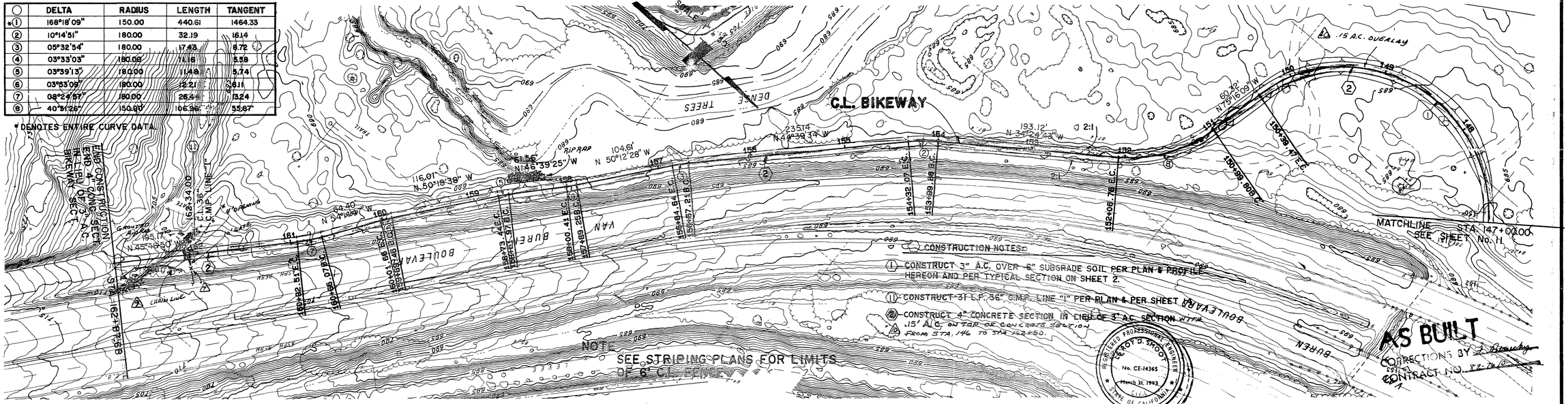


CURVE DATA

	DELTA	RADIUS	LENGTH	TANGENT
*①	168°18'09"	150.00	440.61	1464.33
②	10°14'51"	180.00	32.19	16.14
③	05°32'54"	180.00	17.43	8.72
④	03°33'03"	180.00	11.16	5.58
⑤	03°39'13"	180.00	11.48	5.74
⑥	03°53'09"	180.00	12.21	6.11
⑦	08°24'51"	180.00	26.42	13.24
⑨	40°51'26"	150.00	106.96	55.87

*DENOTES ENTIRE CURVE DATA

PLAN | SURVEYED | PLOTTED | NOTE BOOK | NO. | ALIGNMENT CHECKED | RT. OF WAY CHECKED | BY | DATE



J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of: Jimmy W. Stiles
Registered Engineer No. 35458 Date 12/6/88

REGISTERED PROFESSIONAL ENGINEER
JIMMY W. STILES
No. 35458
Exp. 3/30/91
CIVIL
STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D. Romero 9.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

NO.	DESCRIPTION	APPR.	DATE
10	AS BUILT -15' A.C. OVERLAY		
9	AS BUILT ADD'L CHAINLINK		
8	AS BUILT ACCESS GATE		

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

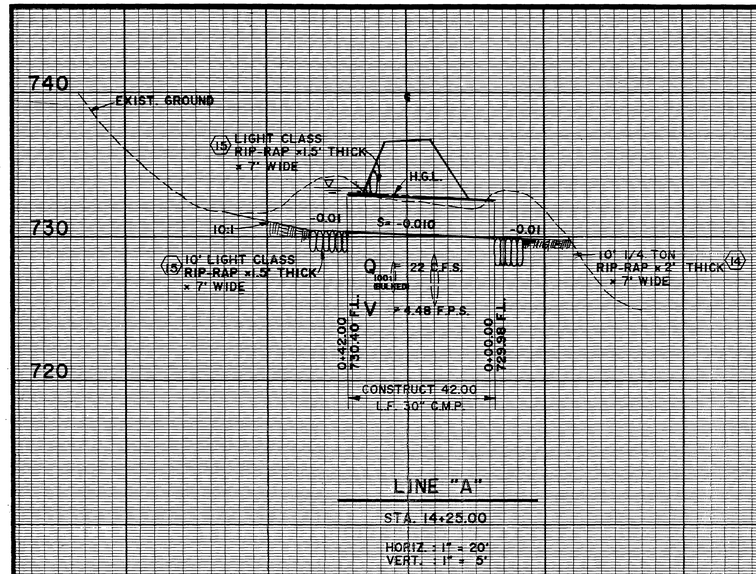
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 147+00.00 TO STA 162+87.68

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET 12 of 19	

R-3456

INDEXED 9-11-96 4H

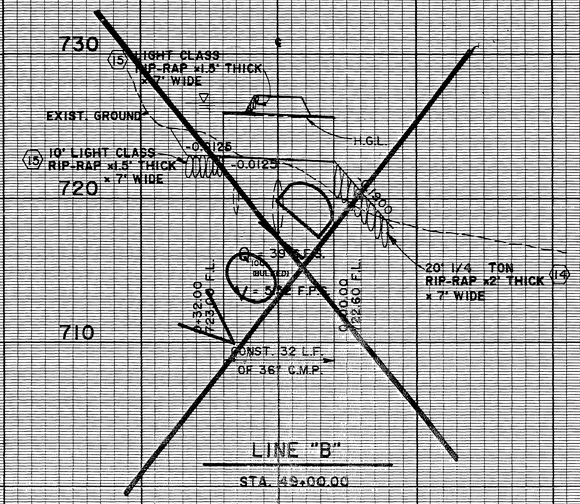
900-R



LINE "A"

STA. 14+25.00

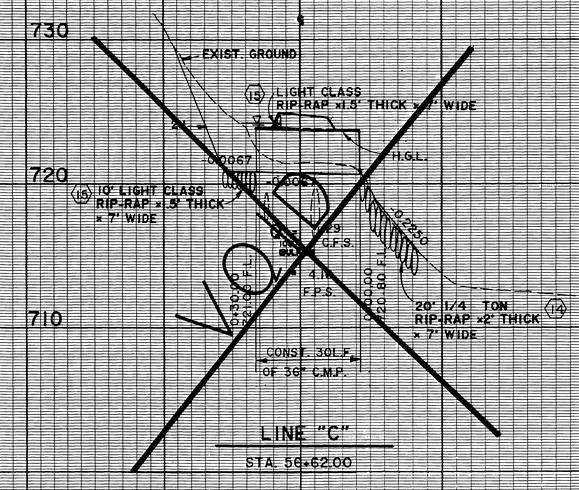
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "B"

STA. 49+00.00

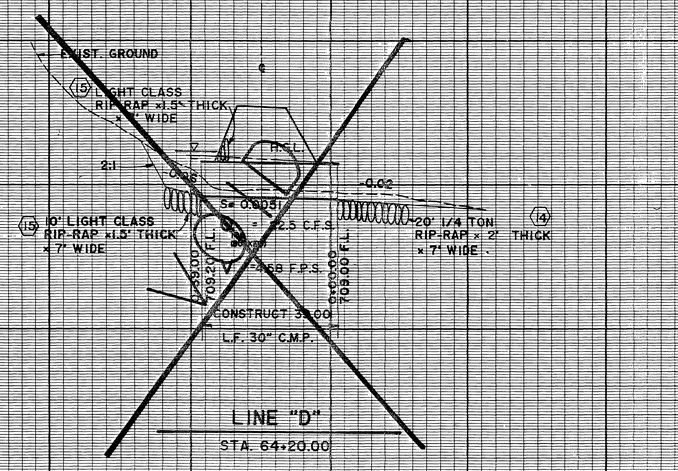
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "C"

STA. 56+62.00

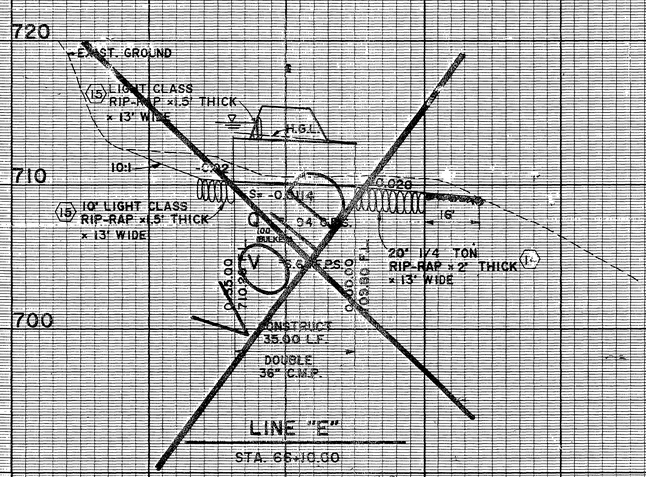
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "D"

STA. 64+20.00

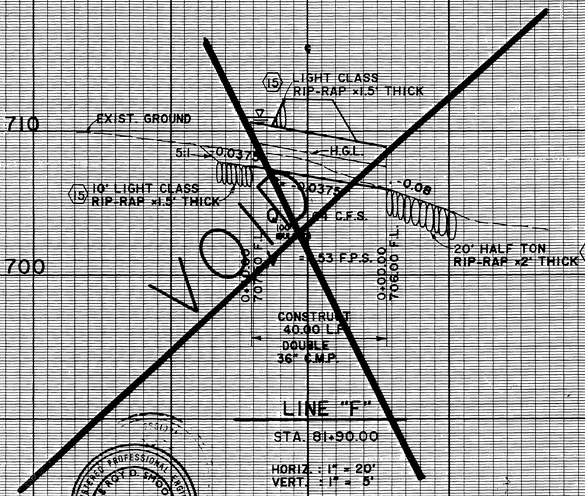
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "E"

STA. 68+10.00

HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "F"

STA. 81+90.00

HORIZ. : 1" = 20'
VERT. : 1" = 5'

REGISTERED PROFESSIONAL ENGINEER LEROY D. SMOOT No. CE-15365 March 31, 1993 STATE OF CALIFORNIA CIVIL

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/14/88

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

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Richard D. Bowlus 4.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/8/90
Barry Beck, Public Works Department Date

REVISIONS			
NO.	DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

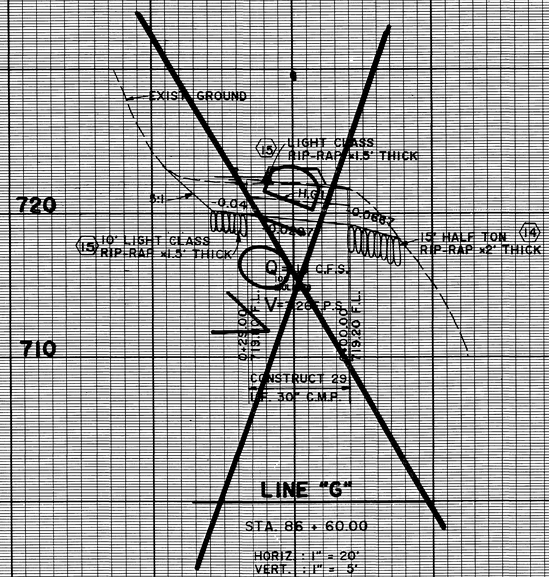
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STORM DRAIN PROFILES

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET 13 of 19	

R-3456

INDEXED 9-11-96 GH 900-R

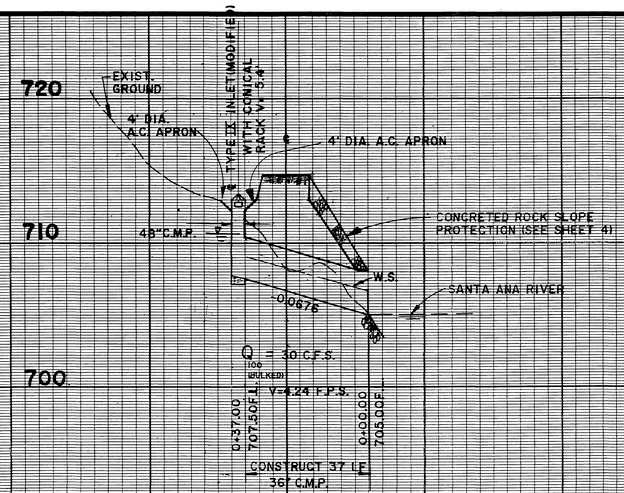
SANTA ANA RIVER BIKEWAY PHASE III



LINE "G"

STA. 86 + 60.00

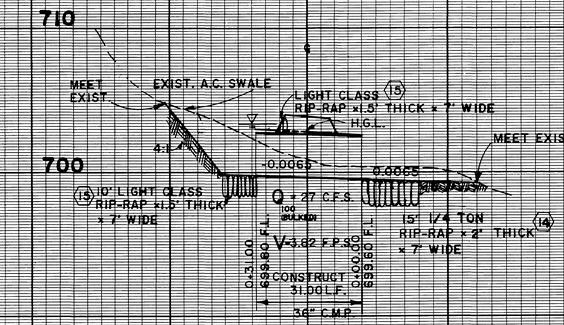
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "H"

STA. 42 + 76.00

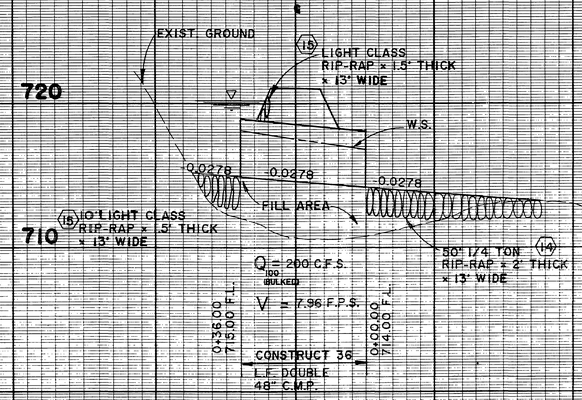
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "I"

STA. 162 + 34.00

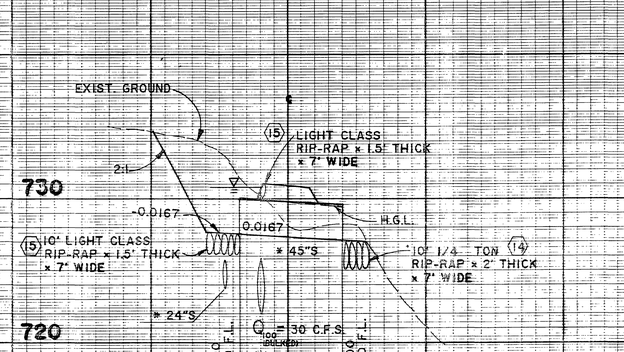
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "J"

STA. 45+25.00

HORIZ. : 1" = 20'
VERT. : 1" = 5'

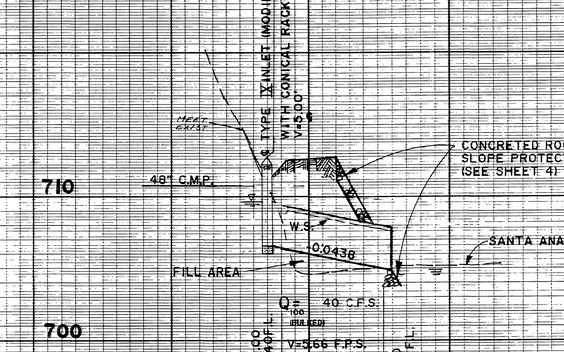


LINE "K"

STA. 27+49.00

HORIZ. : 1" = 20'
VERT. : 1" = 5'

* CAUTION : CONTRACTOR TO VERIFY DEPTH OF THE EXIST. 45" & 24" SEWER LINES.



LINE "L"

STA. 40+95.00

HORIZ. : 1" = 20'
VERT. : 1" = 5'

REGISTERED PROFESSIONAL ENGINEER LEROY D. SMOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/14/88

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

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul O. Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS			
NO.	DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR, R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

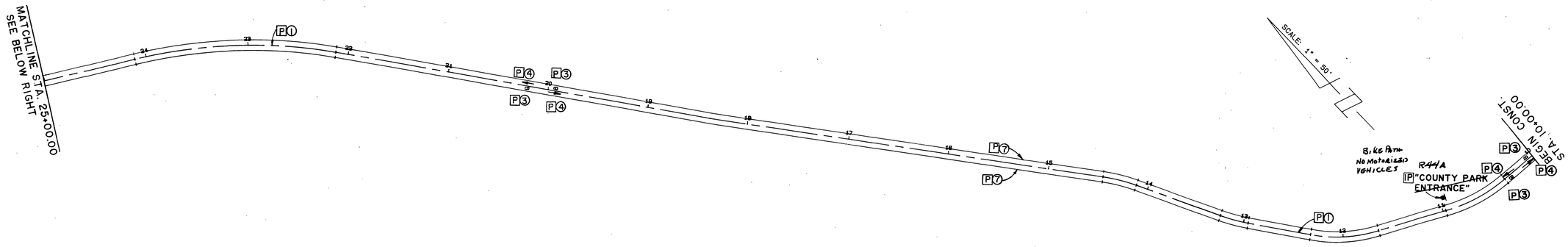
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STORM DRAIN PROFILES

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	14 of 19

R 3456

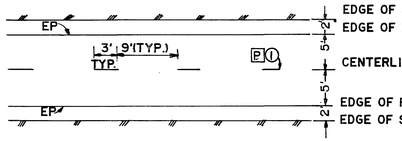
INDEXED 9-11-96 4H 900-R

SANTA ANA RIVER



STRIPING, SIGN, & MARKING QUANTITES

4" DASHED YELLOW-3' STRIPE, 9' GAP	=	3130 L.F.
"BIKE" MARKING	=	6 EA.
"ARROW" MARKING	=	6 EA.
4" WHITE EDGE STRIPE	=	6260 L.F.
W63 "PED XING" (SYMBOL)	=	2 EA.
COUNTY PARK ENTRANCE	=	2 EA.
6' C.L. FENCE	=	200 L.F.

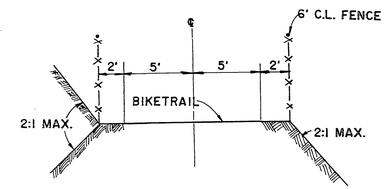


TYPICAL PAVEMENT MARKING

1" = 10'

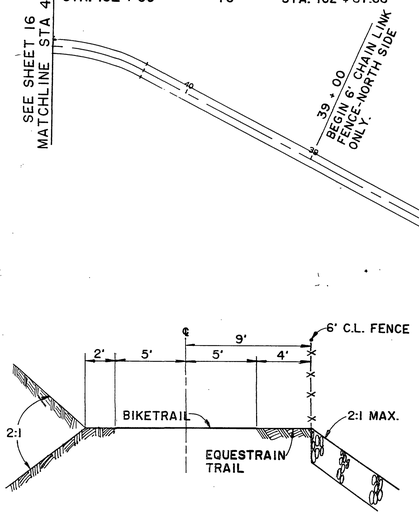
LIMITS OF 4" YELLOW DASHED STRIPING

STA. 10 + 00	TO	STA. 77 + 55
STA. 80 + 40	TO	STA. 98 + 75
STA. 105 + 00	TO	STA. 139 + 50
STA. 152 + 50	TO	STA. 162 + 87.68



TYPICAL FENCE LOCATION

N.T.S.



SPECIAL FENCE LOCATION
DETAIL AT EQUESTRAIN TRAIL

N.T.S.

LEGEND

P = PAINT

IP = INSTALL SIGN & POST (VERTICAL CLEARANCE FROM E.P. TO BOTTOM OF SIGN PANEL)

I = INSTALL

① 4" DASHED YELLOW-3' STRIPE, 9' GAP
② 11" DOUBLE YELLOW (DETAIL 22)
③ "BIKE" PAVEMENT MARKING
④ ARROW MARKING- LEFT, RIGHT OR STRAIGHT, AS SHOWN
⑤ "ONLY" PAVEMENT MARKING
⑥ "SLOW" PAVEMENT MARKING
⑦ 4" WHITE EDGE STRIPE

AS BUILT
CORRECTIONS BY: J Peterby
CONTRACT NO. 82-761D

NOTE: SEE STANDARD PLAN SHEET A 20-A FOR DETAIL 22.

REGISTERED PROFESSIONAL ENGINEER LE ROY D. SMOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/16/88

REGISTERED PROFESSIONAL ENGINEER JIM-MY W. SIMS No. 35458 Exp 3/30/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D Romero 4.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 6/15/90
Barry Beck, Public Works Department Date

REVISIONS		
NO.	DESCRIPTION	APPR. DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR, RCE 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

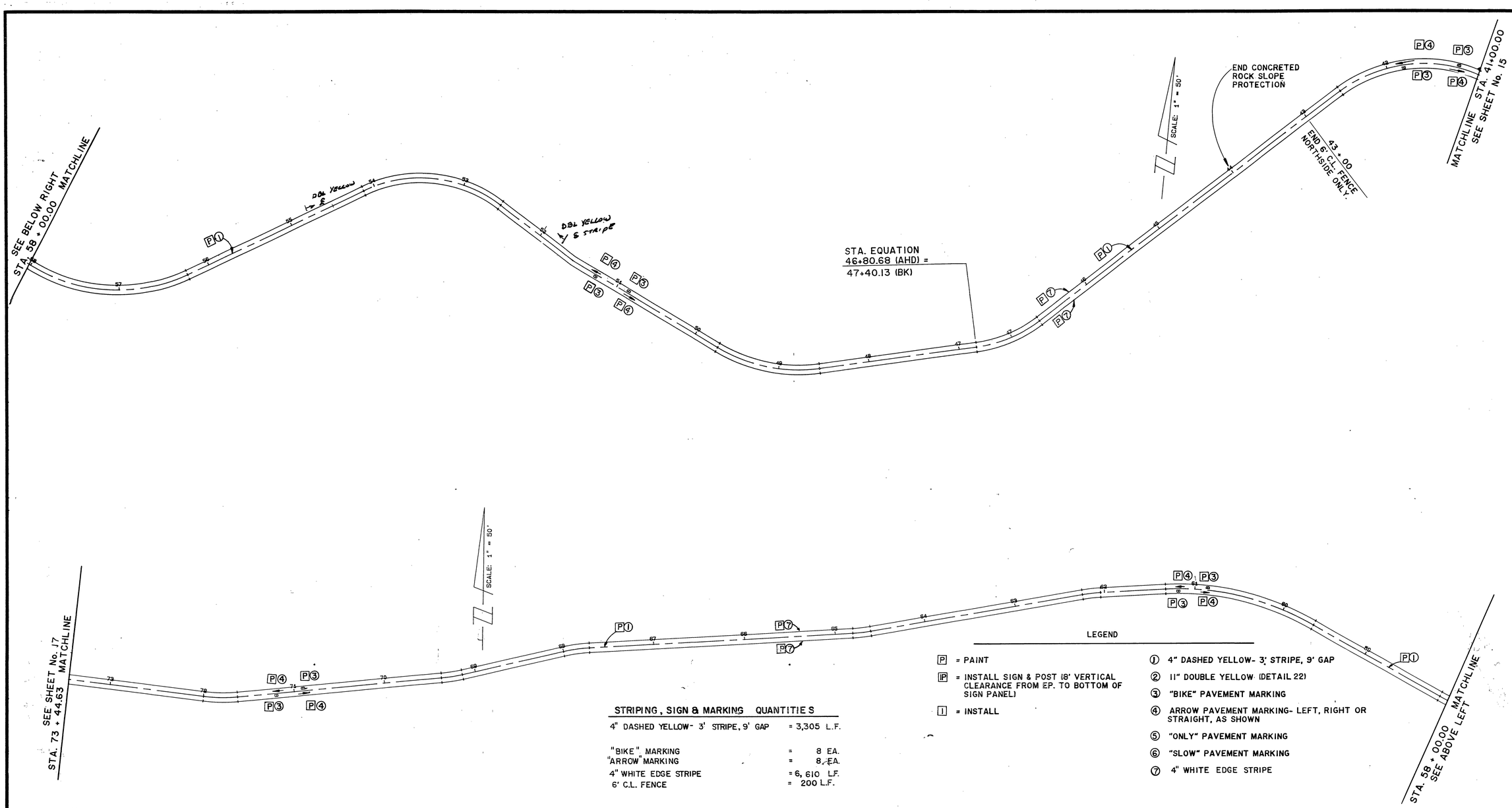
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 10+00 TO STA 41+00

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	15 of 19

R-3456

INDEXED 9-11-96 GH 900-R

SANTA ANA RIVER BIKEWAY



STRIPING, SIGN & MARKING QUANTITIES

4" DASHED YELLOW- 3' STRIPE, 9' GAP	= 3,305 L.F.
"BIKE" MARKING	= 8 EA.
"ARROW" MARKING	= 8 EA.
4" WHITE EDGE STRIPE	= 6,610 L.F.
6' C.L. FENCE	= 200 L.F.

LEGEND

- [P] = PAINT
- [IP] = INSTALL SIGN & POST (8' VERTICAL CLEARANCE FROM EP. TO BOTTOM OF SIGN PANEL)
- [I] = INSTALL

1. 4" DASHED YELLOW- 3' STRIPE, 9' GAP
2. 11" DOUBLE YELLOW (DETAIL 22)
3. "BIKE" PAVEMENT MARKING
4. ARROW PAVEMENT MARKING- LEFT, RIGHT OR STRAIGHT, AS SHOWN
5. "ONLY" PAVEMENT MARKING
6. "SLOW" PAVEMENT MARKING
7. 4" WHITE EDGE STRIPE

REGISTERED PROFESSIONAL ENGINEER LE ROY D. SHOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

AS BUILT
CORRECTIONS BY J. Ostrosky
CONTRACT NO. 82-7610

NOTE: SEE STANDARD PLAN SHEET A 20-A FOR DETAIL 22.

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/16/88

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

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul A Romero 9-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

NO.	REVISIONS DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SHOOT, ASSISTANT COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

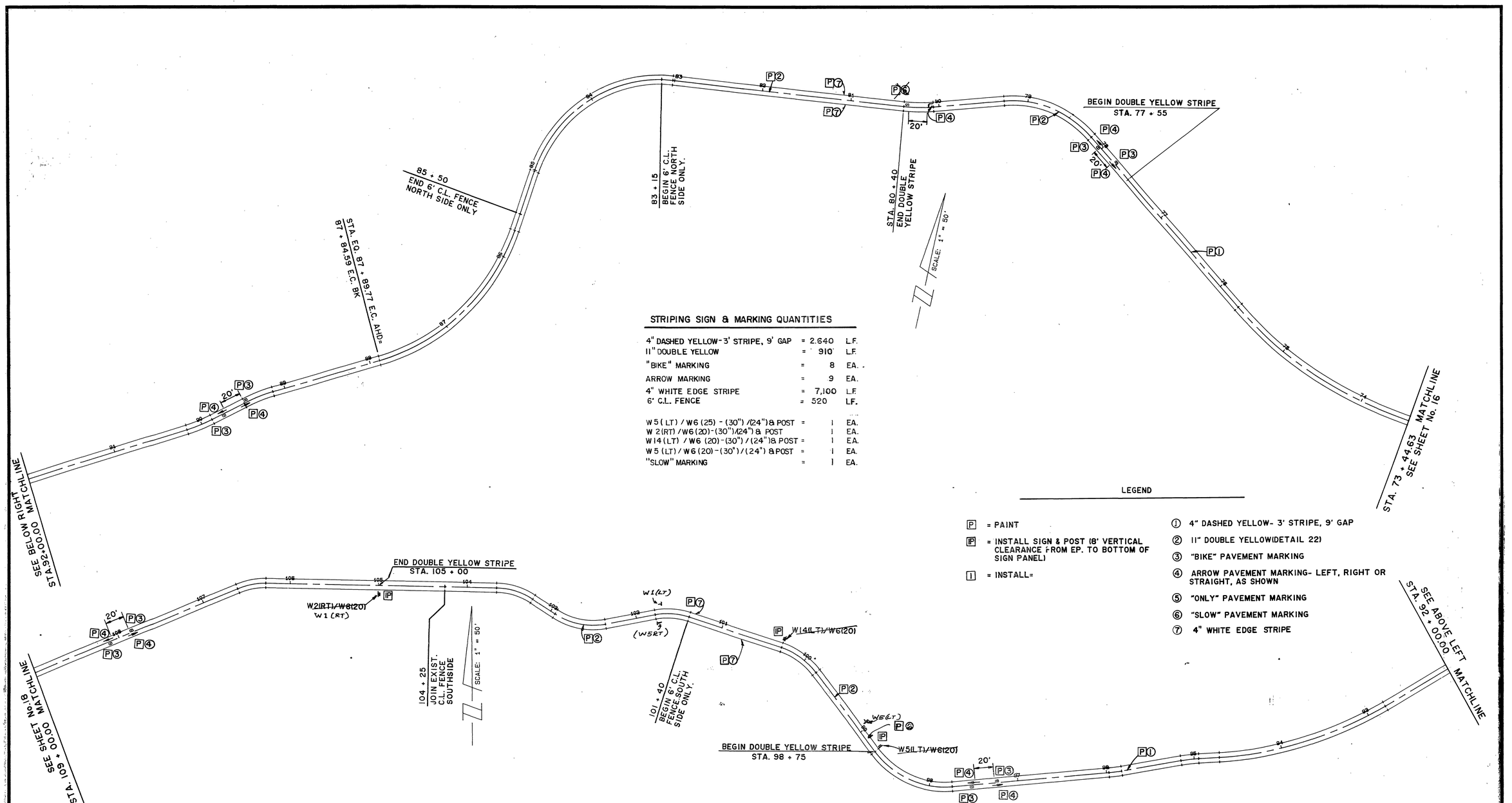
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 41+00.00 TO STA 73+44.63

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	16 of 19

R-3456

INDEXED 9-11-96 LH 900-R

SANTA ANA RIVER BIKEWAY



STRIPING SIGN & MARKING QUANTITIES

4" DASHED YELLOW-3' STRIPE, 9' GAP	= 2,640	L.F.
11" DOUBLE YELLOW	= 910	L.F.
"BIKE" MARKING	= 8	EA.
ARROW MARKING	= 9	EA.
4" WHITE EDGE STRIPE	= 7,100	L.F.
6' C.L. FENCE	= 520	L.F.
W5(LT)/W6(25)-(30")/(24")& POST	= 1	EA.
W2(RT)/W6(20)-(30")/24") & POST	= 1	EA.
W14(LT)/W6(20)-(30")/(24")& POST	= 1	EA.
W5(LT)/W6(20)-(30")/(24") & POST	= 1	EA.
"SLOW" MARKING	= 1	EA.

LEGEND

- P = PAINT
- IP = INSTALL SIGN & POST (8' VERTICAL CLEARANCE FROM EP. TO BOTTOM OF SIGN PANEL)
- I = INSTALL=
- ① 4" DASHED YELLOW- 3' STRIPE, 9' GAP
- ② 11" DOUBLE YELLOW(DETAIL 22)
- ③ "BIKE" PAVEMENT MARKING
- ④ ARROW PAVEMENT MARKING- LEFT, RIGHT OR STRAIGHT, AS SHOWN
- ⑤ "ONLY" PAVEMENT MARKING
- ⑥ "SLOW" PAVEMENT MARKING
- ⑦ 4" WHITE EDGE STRIPE

REGISTERED PROFESSIONAL ENGINEER LE ROY D. SMOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

AS BUILT
CORRECTIONS BY J. Petrucky
CONTRACT NO. 92-7610

NOTE: SEE STANDARD PLAN SHEET A20-A FOR DETAIL 22

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/16/88

REGISTERED PROFESSIONAL ENGINEER JAMES W. SIMON No. 35458 Exp. 3/30/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul D. Romero 4-6-89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

REVISIONS		
NO.	DESCRIPTION	APPR. DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LE ROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — 9-7-89 DATE
RECOMMENDED — 9-6-89 DATE

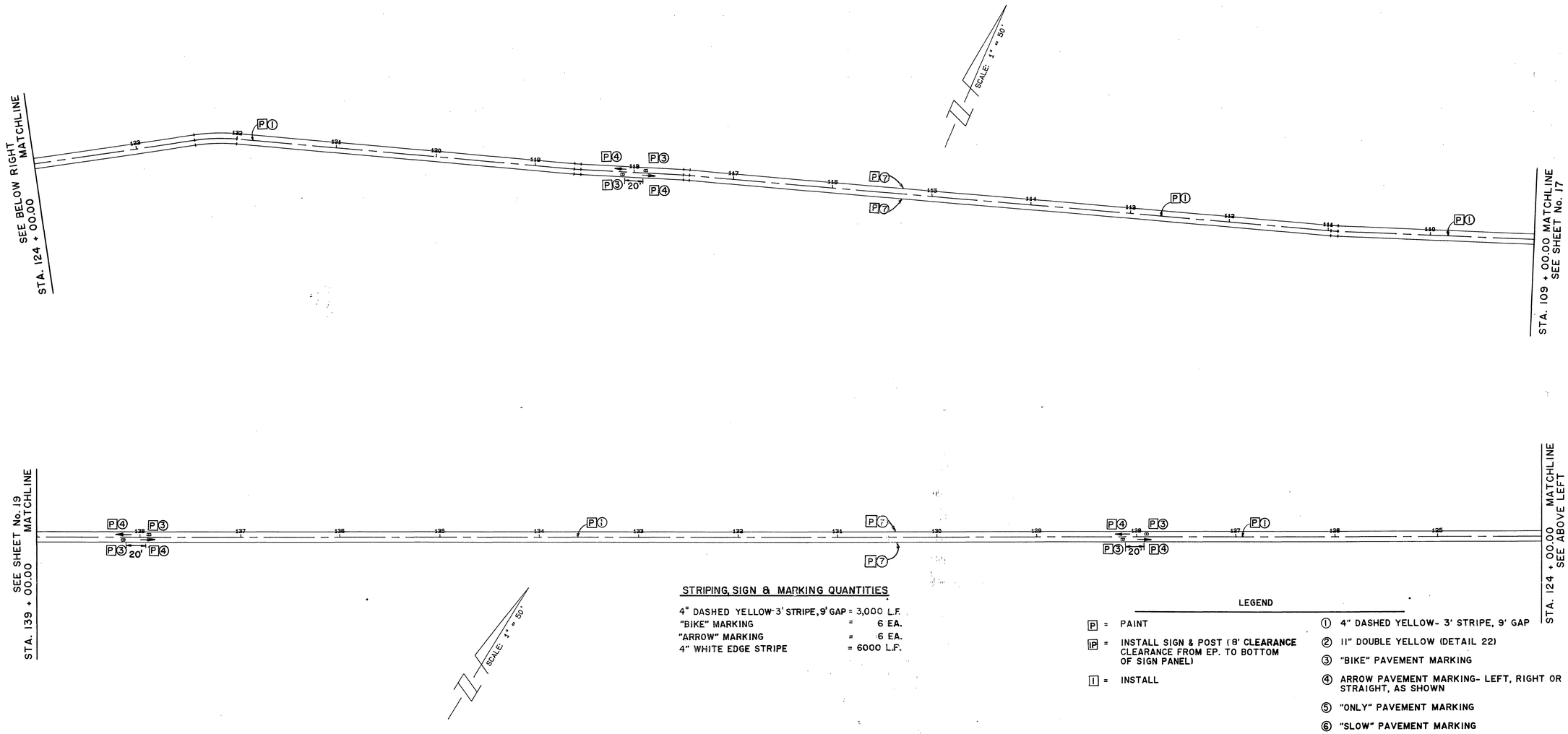
SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 73 + 44.63 TO STA 109+00.00

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	17 of 19

R-3456

INDEXED 9-11-96 LH

900-R



STRIPING, SIGN & MARKING QUANTITIES

4" DASHED YELLOW-3' STRIPE, 9' GAP	=	3,000 L.F.
"BIKE" MARKING	=	6 EA.
"ARROW" MARKING	=	6 EA.
4" WHITE EDGE STRIPE	=	6000 L.F.

LEGEND

- P = PAINT
- IP = INSTALL SIGN & POST (8' CLEARANCE CLEARANCE FROM EP. TO BOTTOM OF SIGN PANEL)
- I = INSTALL

1. 4" DASHED YELLOW- 3' STRIPE, 9' GAP
2. 11" DOUBLE YELLOW (DETAIL 22)
3. "BIKE" PAVEMENT MARKING
4. ARROW PAVEMENT MARKING- LEFT, RIGHT OR STRAIGHT, AS SHOWN
5. "ONLY" PAVEMENT MARKING
6. "SLOW" PAVEMENT MARKING
7. 4" WHITE EDGE STRIPE

AS BUILT
CORRECTIONS BY F. Patnesky
CONTRACT NO. 82-7610

NOTE: SEE STANDARD PLAN SHEET A 20-A FOR DETAIL 22

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/15/82

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Parks Department Date 4/6/89

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck, Public Works Department Date 8/15/89

REVISIONS

NO.	DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LE ROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — DATE 9-7-89
RECOMMENDED — DATE 9-6-89

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA109+00.00 TO STA139+00.00

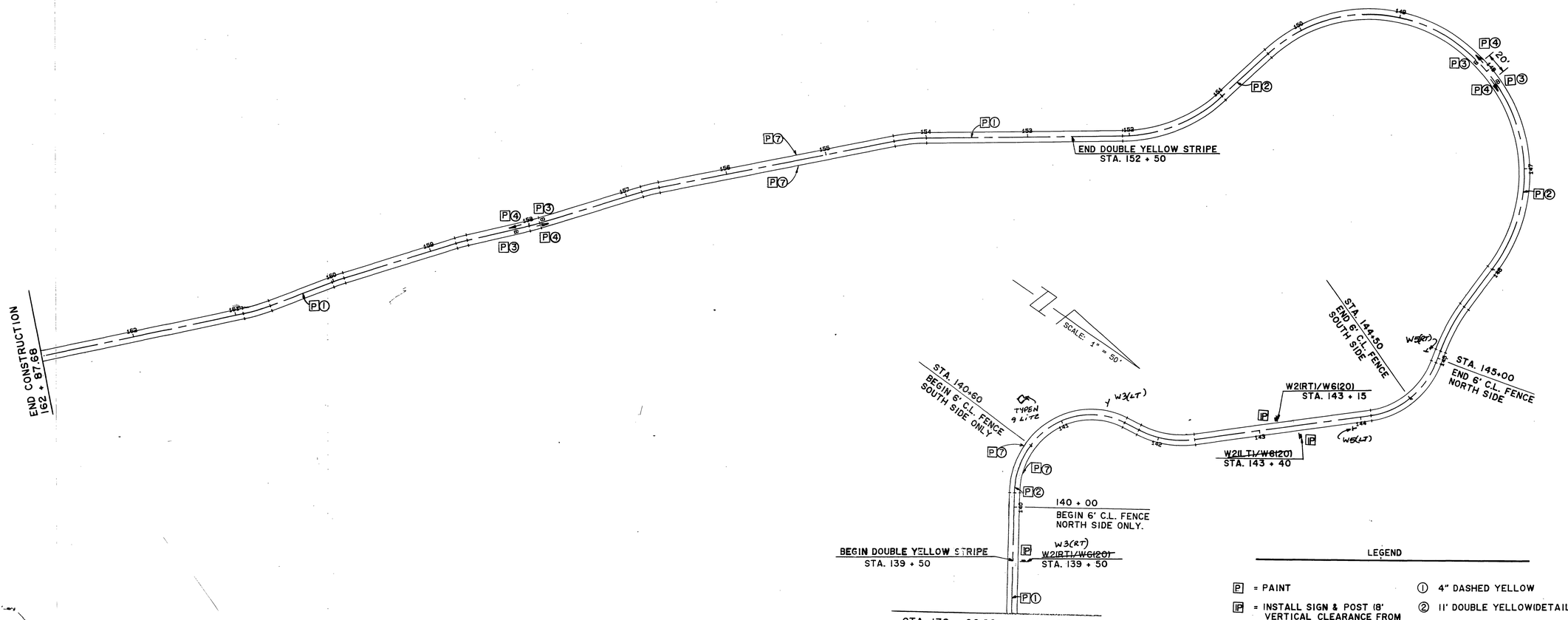
REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET 18 of 19	

R-3456

INDEXED 9-11-96 LFH 900-R

SANTA RIVER BIKEWAY

SANTA ANA RIVER BIKEWAY



STRIPING, SIGN & MARKING QUANTITIES

4" DASHED YELLOW- 3' STRIPE, 9' GAP	= 1,090 L.F.
11" DOUBLE YELLOW	= 1,300 L.F.
"BIKE" MARKING	= 4 EA.
"ARROW" MARKING	= 4 EA.
4" WHITE EDGE LINE	= 4,775 L.F.
W 2 (RT) /W6 (20)-(30")/(24")& POST	= 2 EA.
W 2 (LT) /W6 (20)-(30")/(24")& POST	= 1 EA.
6' C.L. FENCE	= 890 L.F.

LEGEND

[P] = PAINT

[IP] = INSTALL SIGN & POST (8' VERTICAL CLEARANCE FROM EP. TO BOTTOM OF SIGN PANEL)

[I] = INSTALL

① 4" DASHED YELLOW
② 11' DOUBLE YELLOW(DETAIL 22)
③ "BIKE" PAVEMENT MARKING
④ ARROW PAVEMENT MARKING
⑤ "ONLY PAVEMENT MARKING
⑥ "SLOW" PAVEMENT MARKING
⑦ 4" WHITE EDGE STRIPE

REGISTERED PROFESSIONAL ENGINEER LE ROY D. SMOOT No. CE-14365 March 31, 1993 CIVIL STATE OF CALIFORNIA

AS BUILT
CORRECTIONS BY J. Ostrosky
CONTRACT NO. 92-7610

NOTE: SEE STANDARD PLAN SHEET A 20-A FOR DETAIL 22.

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/14/92

REGISTERED PROFESSIONAL ENGINEER JIMMY W. PORTER No. 35458 Exp. 9/30/93 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul O. Romero 4-8-93
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 3/15/93
Barry Beck, Public Works Department Date

REVISIONS			
NO.	DESCRIPTION	APPR.	DATE

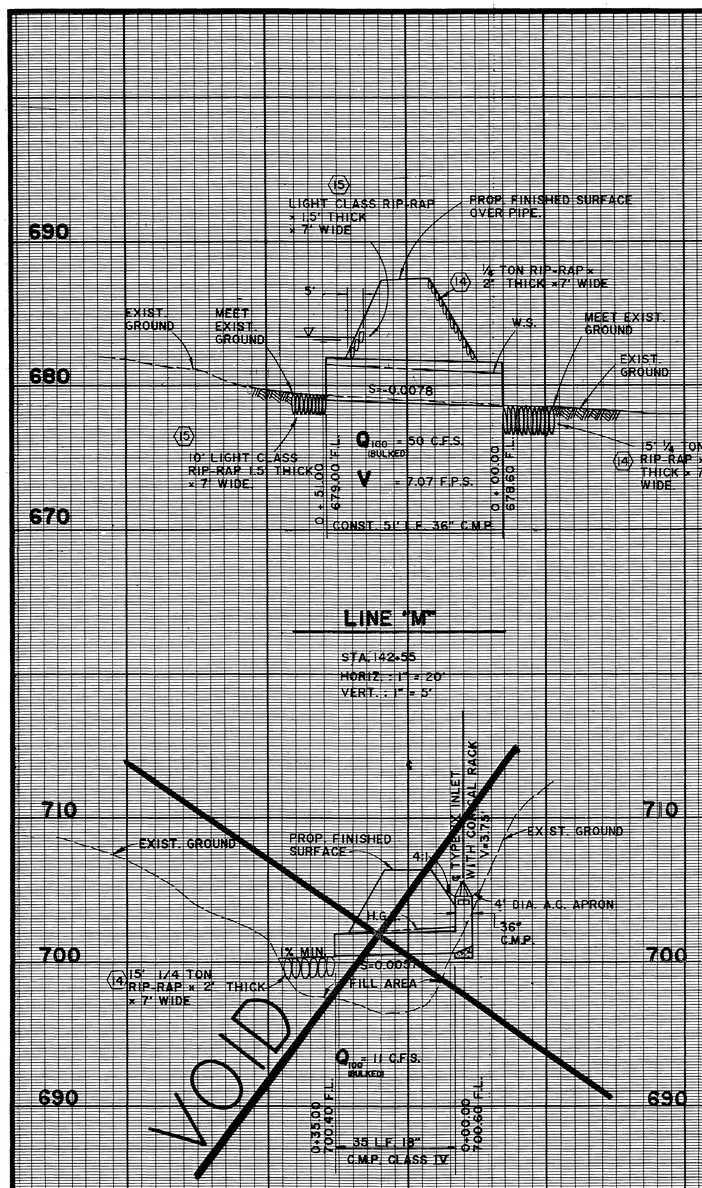
COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LE ROY D. SMOOT, ROAD COMMISSIONER AND COUNTY SURVEYOR R.C.E. 14365 — DATE 5-7-93
RECOMMENDED — DATE 9-6-83

SANTA ANA RIVER BIKEWAY
PHASE III
Martha McLean - Anza Narrows Park to Doolittle Ave.
STA 139+00.00 TO STA 162+90.00

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	19 of 19

R-3456

INDEXED 9-11-96 GH 900-R

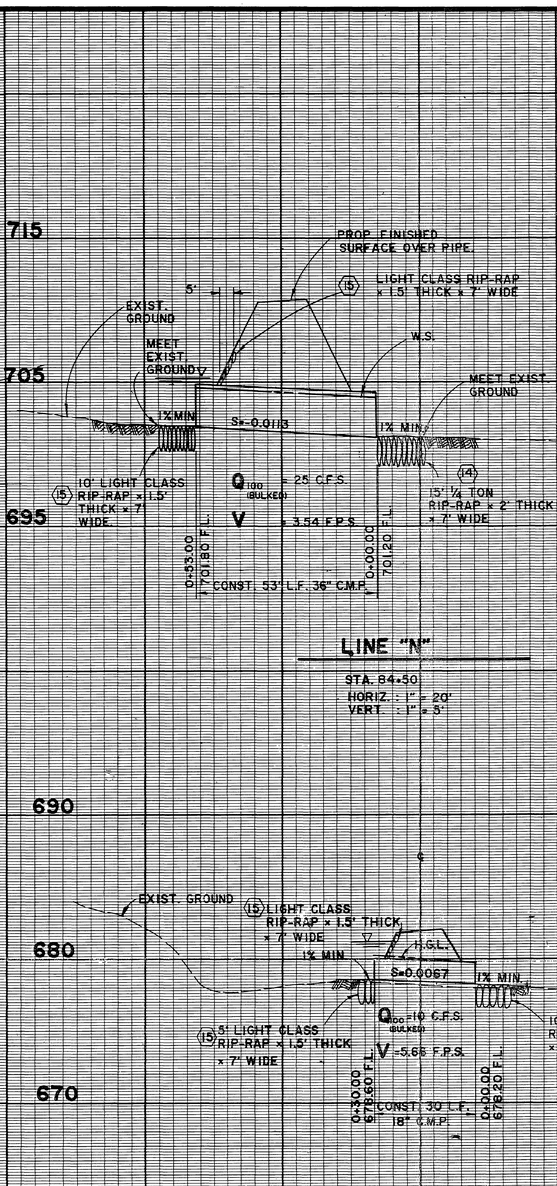


LINE "M"

STA. 142+55
HORIZ. : 1" = 20'
VERT. : 1" = 5'

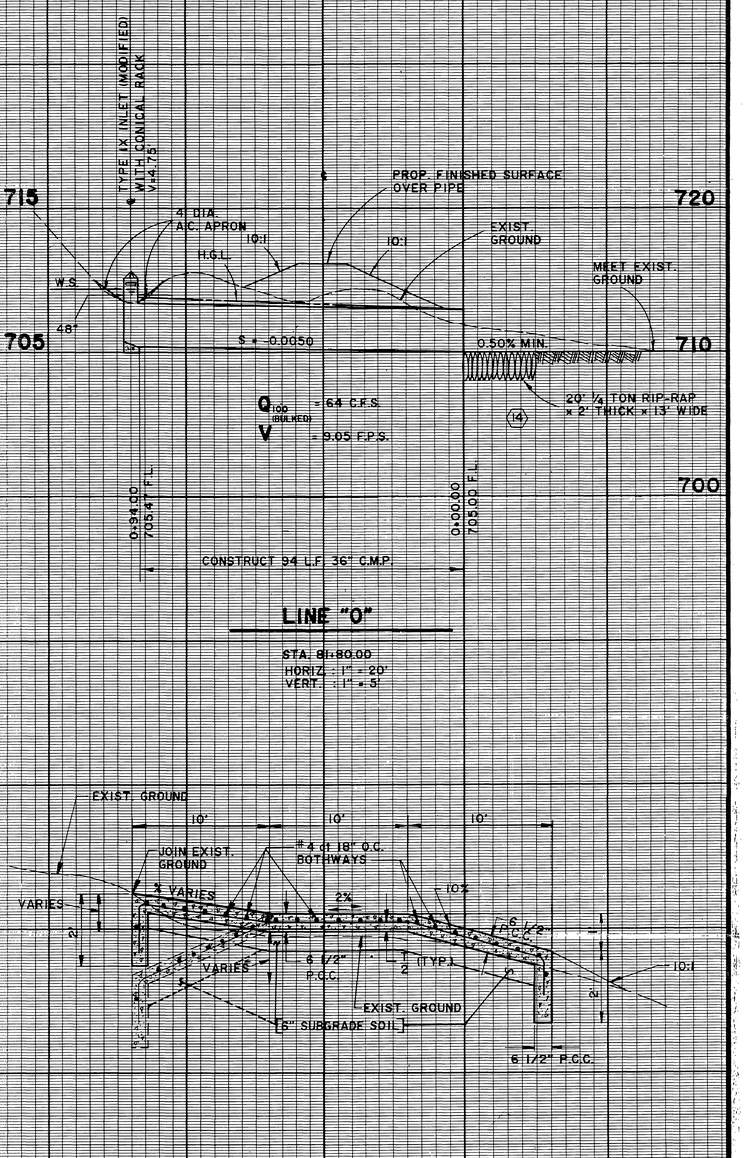
LINE "P"

STA. 102+50.00
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "N"

STA. 84+50
HORIZ. : 1" = 20'
VERT. : 1" = 5'



LINE "O"

STA. 81+80.00
HORIZ. : 1" = 20'
VERT. : 1" = 5'

LINE "Q"

STA. 146+40.00
HORIZ. : 1" = 20'
VERT. : 1" = 5'

SECTION "H-H"

CONCRETE APPROACH
STA. 82+07.00 TO STA. 82+21.00
STA. 82+80.00 TO STA. 83+05.00
N.T.S.

SANTA ANA RIVER BIKEWAY PHASE III

J.F. Davidson Associates, Inc.
ENGINEERING PLANNING SURVEYING
ARCHITECTURE LANDSCAPE ARCHITECTURE
3880 Lemon Street, P.O. Box 493, Riverside, CA 92502 (714) 686-0844

Prepared under the direction of:
Registered Engineer No. 35458 Date 12/16/89

REGISTERED PROFESSIONAL ENGINEER JIMMY W SIMS No. 35458 Exp. 3/31/91 CIVIL STATE OF CALIFORNIA

COUNTY OF RIVERSIDE
PARKS DEPARTMENT
Approved by: Paul A. Romero 4.6.89
Parks Department Date

CITY OF RIVERSIDE
PUBLIC WORKS DEPARTMENT
Approved by: Barry Beck 8/15/90
Barry Beck, Public Works Department Date

NO.	REVISIONS DESCRIPTION	APPR.	DATE

COUNTY OF RIVERSIDE
ROAD DEPARTMENT
APPROVED BY
LEROY D. SMART, ROAD COMMISSIONER AND COUNTY SURVEYOR — DATE 9-7-89
RECOMMENDED R.C.E. 14365 — DATE 9-6-89

REGISTERED PROFESSIONAL ENGINEER LEROY D. SMART No. CE 14365 March 31, 1991 CIVIL STATE OF CALIFORNIA

Martha McLean - Anza Narrows Park to Doolittle Ave.
STORM DRAIN PROFILES

REFERENCE	
W. O. NO.	
ROAD NO.	
SURVEY NO.	
F. B. NO.	
SHEET	14A of 19

R 3456

INDEXED 9-11-96 4H 900-R

SANTA ANA RIVER BIKEWAY PHASE III