

# ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY

SANTA ANA, CALIFORNIA  
M. STORM, DIRECTOR

## PLANS FOR CONSTRUCTION OF THAT PORTION OF ALICIA PARKWAY

FROM  
3139 FEET S'LY MELINDA ROAD TO PLANO TRABUCO ROAD

## PORTOLA PARKWAY

FROM  
EL TORO ROAD TO 1307 FEET SOUTH

AND FROM  
MELINDA ROAD TO 3139 FEET SOUTH

AND  
PORTIONS OF FLOOD CONTROL FACILITIES  
L02P24, L02P25, & LIIP03

FUNDED BY: ROAD FEE PROGRAM FUNDS AND ROAD FUNDS

SEE SHEET 2 FOR INFORMATION ABOUT  
AGREEMENTS AFFECTING CONTRACT  
ADMINISTRATION.

### EMA-DEVELOPMENT

SUBMITTED *William J. Kelly* 7/6/82  
SECTION CHIEF RCE 16799

RECOMMENDED *John W. Nelson* 7/6/82  
DIVISION MANAGER RCE 13154

APPROVED *John W. Nelson* 7-6-82  
ASSISTANT DIRECTOR RCE 13142



JHH Consultants  
840 N. Golden Circle Dr., Suite 114, Santa Ana, Ca. 92705 (714) 835-3811

Prepared Under the Supervision of:

*Lawrence R. Wilson* Date: 7/18/82  
Lawrence R. Wilson P.E. No. 10095

### INDEX OF SHEETS

SHEET	DESCRIPTION
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- |         |   |
|---------|---|
| 1.      | TITLE SHEET   |
| 2.      | TYPICAL SECTIONS AND DETAILS  |
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| 5-6.    | PORTOLA PARKWAY-EL TORO ROAD TO 1307 FEET SOUTH                       |
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| 11-26.  | ALICIA PARKWAY- 3139 FEET S'LY MELINDA ROAD TO PLANO TRABUCO ROAD.    |
| 27.     | ALICIA PARKWAY AT PLANO TRABUCO ROAD INTERSECTION AND STRIPING DETAIL |
| 28-46A. | ALICIA PARKWAY BRIDGE   |
| 47.     | BRIDGE SOIL BORING LOG  |
| 48-51.  | PORTOLA PARKWAY STORM DRAIN   |
| 52-55.  | ALICIA PARKWAY STORM DRAIN  |
| 56.     | PORTOLA PARKWAY GRADING PLAN  |
| 57.     | PLANO TRABUCO STOCKPILE SITE  |
| 57A.    | TEMPORARY ACCESS ROAD   |

### UTILITY PHONE NO.

TIMES MIRROR	498-3490
CABLE TELEVISION	
MISSION VIEJO COMPANY	837-6050
CORPORATE OFFICES	
PACIFIC TELEPHONE	999-5715
(BILL BADSGARD)	
SOUTHERN CALIFORNIA	973-5491 ex 54642
EDISON COMPANY	
(MIM NEUZIL)	
SOUTHERN CALIFORNIA	495-4430
GAS COMPANY	
(DOMINICK BORINO)	
SANTA MARGARITA	586-1973
WATER DISTRICT	
(BILL DYE)	
LAGUNA HILLS	837-7050
WATER COMPANY	
(BOB HILL)	

**BENCH MARK:** EL 802.869 1976  
ADJ.  
0.8 MI. E. OF MARGUERITE 300' N.  
OF O'NEILL RD. BY A STEEL TRANS-  
MISSION TOWER MARKED 20' ON  
THE S.W. LEG CONC. POST EXPOSED 1'  
ABOVE GROUND, 1' S. OF STEEL  
PADDLE BOARD. DES. JHH-14-77

**BASIS OF BEARING:**  
BEARINGS SHOWN HEREON ARE  
BASED ON A BEARING OF  
S 61° 21' 35" E BETWEEN TRIANGU-  
LATION STATIONS "OSO" AND  
"PLANO". (O.C.S. 1-1-75)

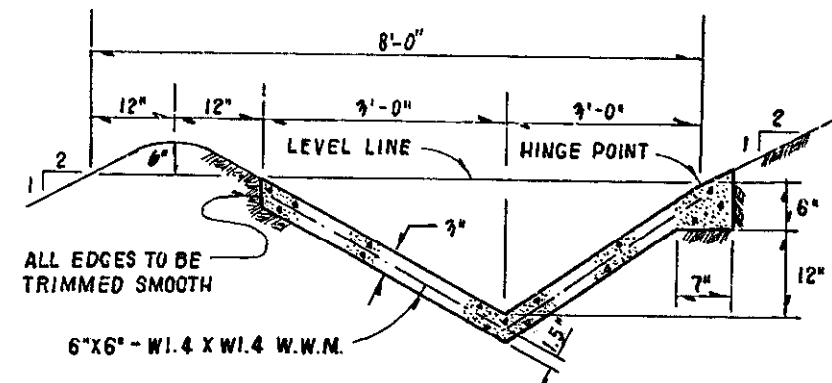
NO.	DESCRIPTION	SHT.	APPROVED	DATE
1	REV. SIGNING	27		
2	REV. ISLAND & SIGN LOCATION	24, 28, 27		
3	ADDED SHEET 55A - LINE "A" - 10'	10, 25A		
4	ADDED SHEET 22A, 23A, 24A, 25A, 26A FOR REVALUATION	1-7		
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W.O. NO. R08565  
DWG. NO.

SHEET 1 OF 145

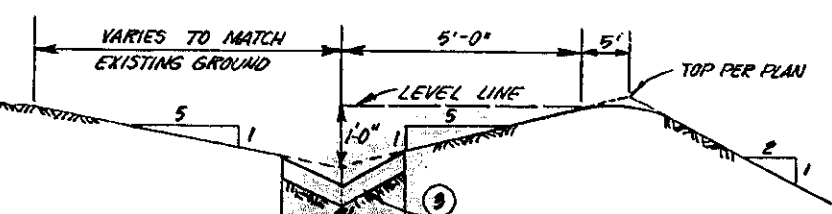
DR. 20 (17347)

J.H.H. JOB NO. 2065

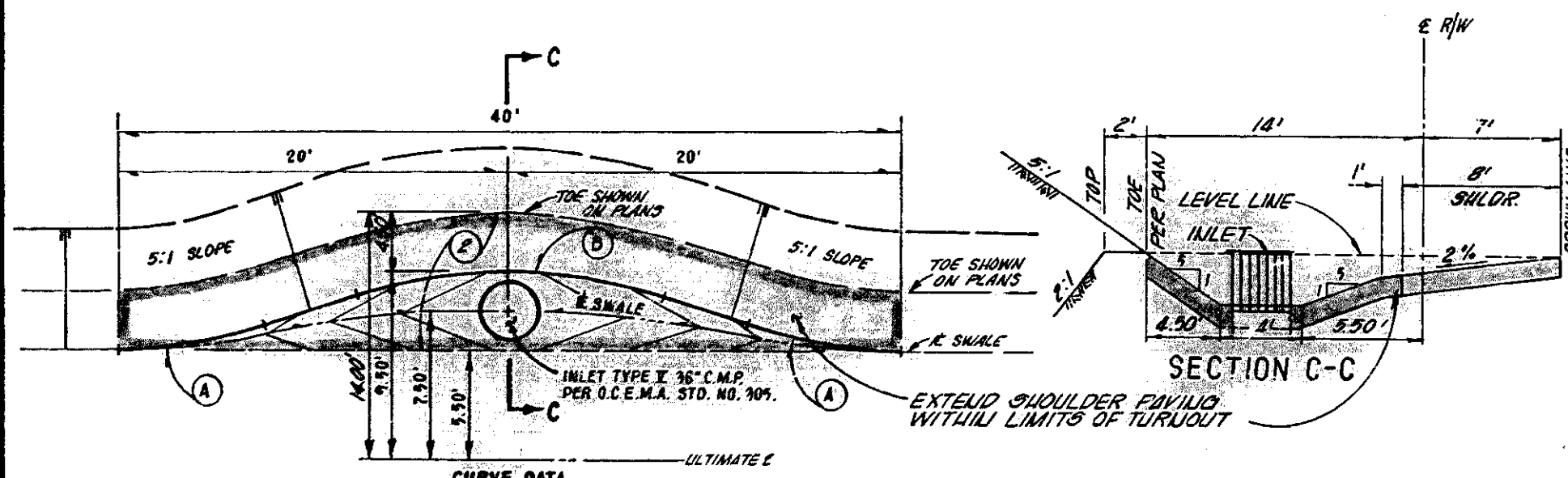


④ MODIFIED TERRACE DRAIN  
NO SCALE

REF: O.C.E.M.A. STD. DWG. # 321



⑥ 10' WIDE BROW DITCH DETAIL  
NO SCALE



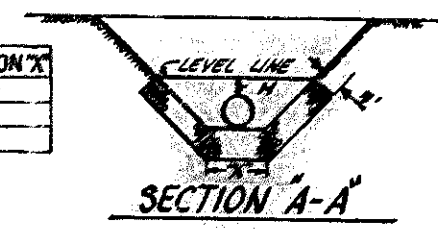
CURVE DATA

STATION	PC	PT	PI	LC	EC
A	18° 55' 29"	25.00'	8.26'	4.17'	
B	37° 50' 58"	25.00'	16.52'	8.57'	

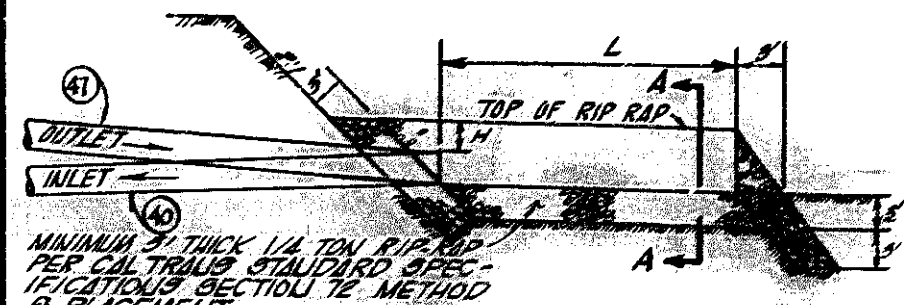
ALICIA PARKWAY STORM DRAIN - ON THE PLANO TRABUCO  
⑦ GRADING DETAIL-INLET TYPE V  
NO SCALE

PIPE DIAMETER DIMENSION

PIPE DIAMETER	DIMENSION
18" x 24"	1.5'
30" x 36"	2.0'
36" x 48"	3.0'

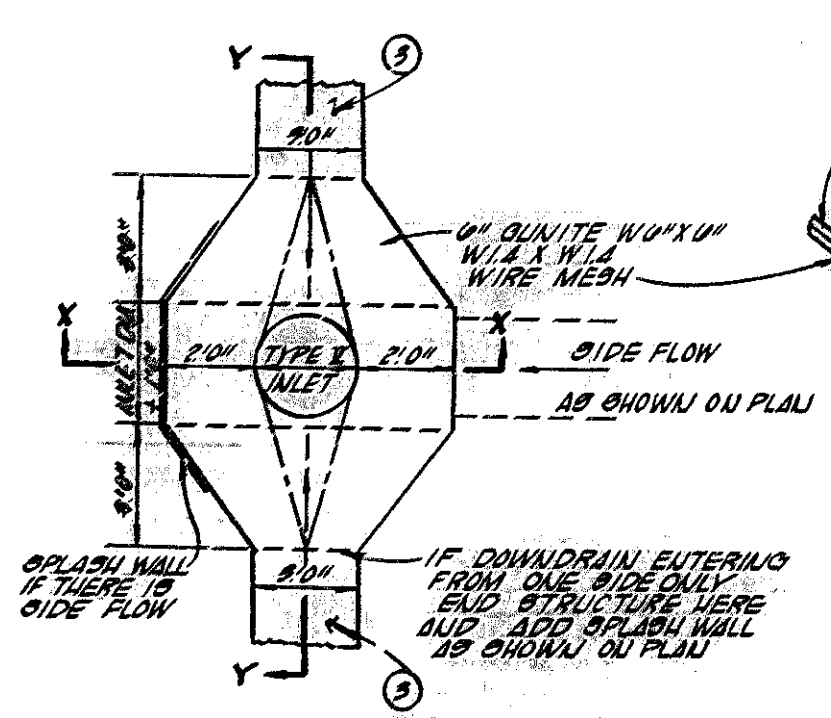


SECTION A-A'



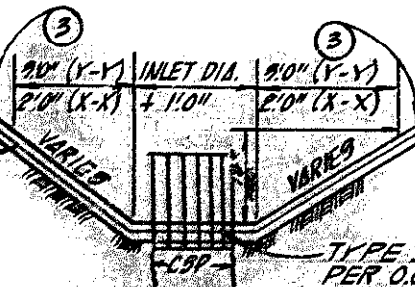
⑩ RIP-RAP INLET-OUTLET DETAIL  
NO SCALE

LINE	H	L	LINE	H	L	LINE	H	L	LINE	H	L
A-10	10'	25.00'	A-11	10'	25.00'	A-12	10'	25.00'	A-13	10'	25.00'
A-14	10'	25.00'	A-15	10'	25.00'	A-16	10'	25.00'	A-17	10'	25.00'
A-18	10'	25.00'	A-19	10'	25.00'	A-20	10'	25.00'	A-21	10'	25.00'
A-22	10'	25.00'	A-23	10'	25.00'	A-24	10'	25.00'	A-25	10'	25.00'

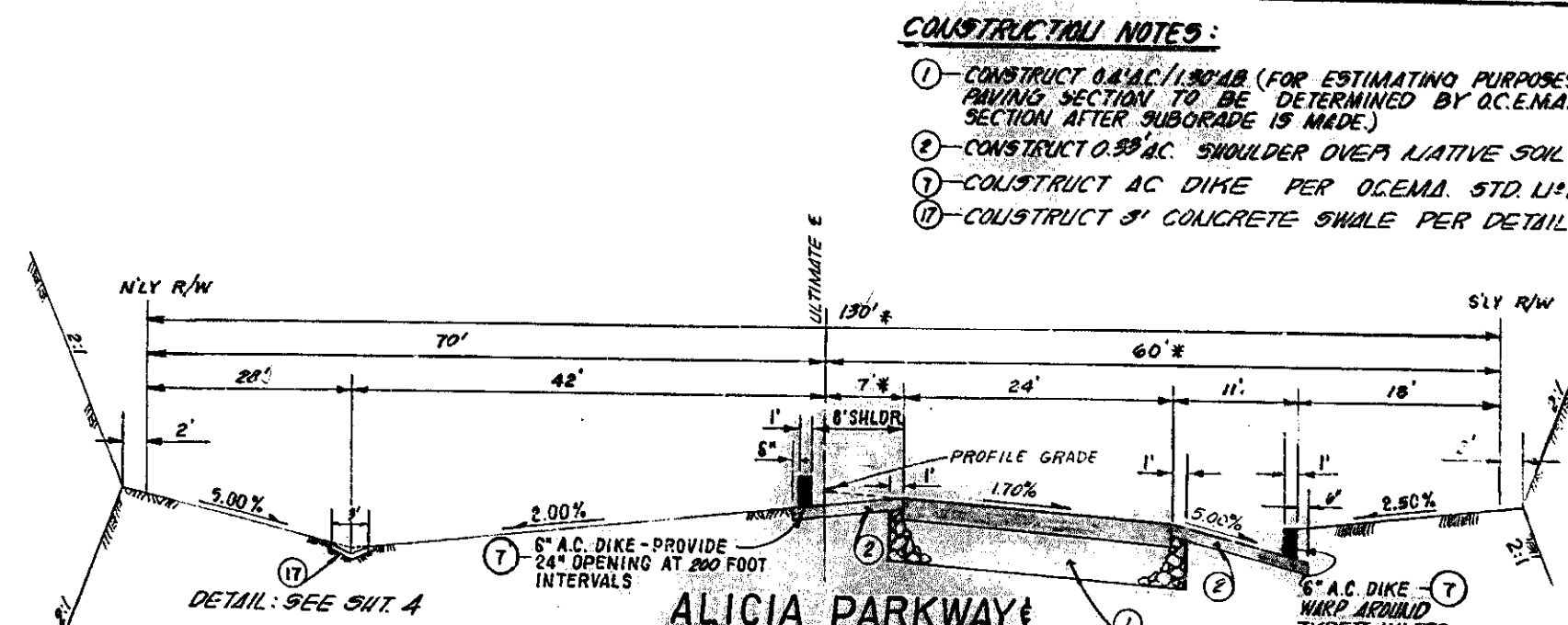


⑪ PORTOLA PARKWAY STORM DRAIN  
DOWNDRAIN TO TYPE I INLET DETAIL  
NO SCALE

APPLIED TO SHEETS 9, 10, 11

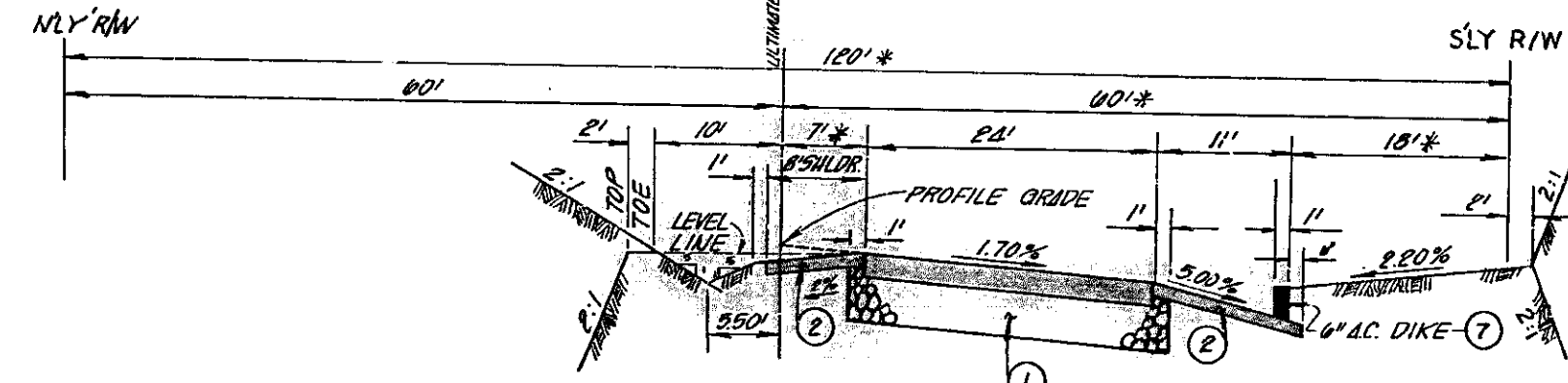


SECTION Y-Y' & X-X'



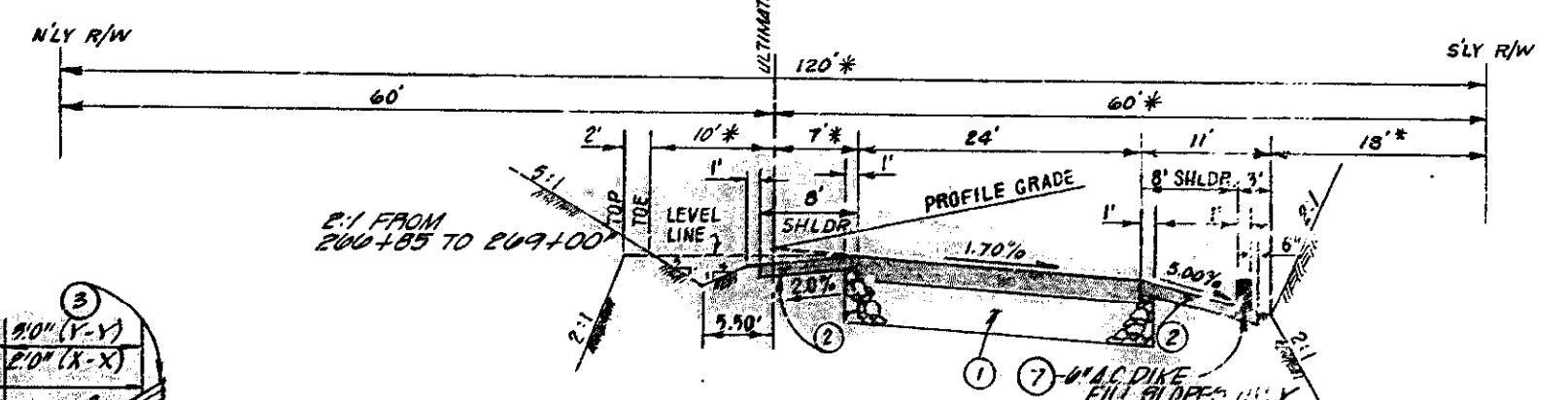
ALICIA PARKWAY  
PORTOLA PARKWAY  
FROM STA. 200+92.55 TO STA. 235+41.11  
NO SCALE

\* VARIES FROM STA. 221+34.29 TO STA. 235+41.11 DUE TO BRIDGE APPROACH



ALICIA PARKWAY

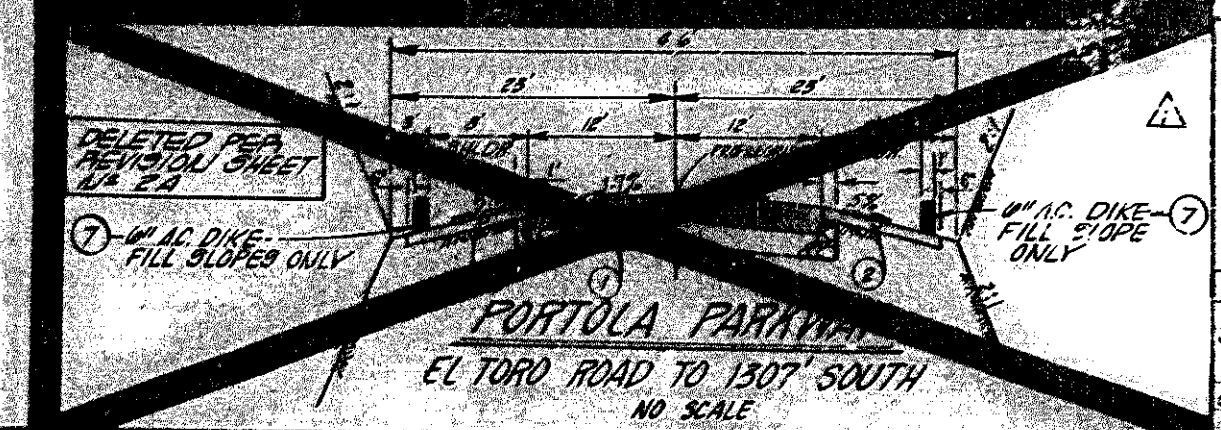
FROM STA. 247+50.97 TO STA. 260+35.00  
\* VARIES FROM STA. 247+50.97 TO STA. 252+78.01 L/E TO BRIDGE APPROACH



ALICIA PARKWAY

FROM STA. 260+85.00 TO STA. 372+43.77  
NO SCALE

\* VARIES FROM STA. 267+40.34 TO STA. 372+43.77 DUE TO TAPER



PORTOLA PARKWAY  
EL TORO ROAD TO 1307 SOUTH  
NO SCALE

CONSTRUCTION NOTES:

- 1- CONSTRUCT 0.5% AC/1.5% AS (FOR ESTIMATING PURPOSES ONLY FINAL PAVING SECTION TO BE DETERMINED BY O.C.E.M.A. MATERIALS SECTION AFTER SUBGRADE IS MADE.)
- 2- CONSTRUCT 0.5% AC SHOULDER OVER NATIVE SOIL
- 3- CONSTRUCT AC DIKE PER O.C.E.M.A. STD. L1-201
- 4- CONSTRUCT 3' CONCRETE SWALE PER DETAIL SHEET L1-2

AGREEMENTS AFFECTING CONSTRUCTION ADMINISTRATION, BUT NOT A PART OF THIS CONTRACT.

AGREEMENT DBI-021 BETWEEN TRABUCO LAND AND CATTLE COMPANY (RANCHO MISSION VIEJO) PROVIDES IN SECTION III-C THAT COUNTY SHALL PROVIDE FINAL ACCOUNTING TO COMPANY WITHIN 60 DAYS OF PLANS AND SPECIFICATION APPROVAL BY BOARD OF SUPERVISORS.

AGREEMENT DBI-050 BETWEEN COUNTY AND RR827 PARTNERSHIP PROVIDES IN SECTION 5B THAT PARTNERSHIP SHALL PAY FOR ROAD WORK ON PORTOLA AND ALICIA PKWYS FOR AN AMOUNT NOT TO EXCEED \$3,000,000. PAYMENTS TO COUNTY WILL BE MADE WITHIN 30 DAYS OF INVOICES BASED UPON MONTHLY PROGRESS. PAYMENTS: ALL BILLING MUST BE SUBMITTED TO PARTNERSHIP BEFORE DEC. 31, 1983.

AGREEMENT DB2-025 BETWEEN COUNTY AND MISSION VIEJO COMPANY PROVIDES THAT COMPANY WILL COMPLETE ITS PORTION OF PORTOLA PKWY CONCURRENTLY WITH COUNTY'S COMPLETION OF PROJECT. GRANTS TO COUNTY A NO-COST CONSTRUCTION EASEMENT (FOR BOTH ACCESS AND TEMPORARY UTILITIES); COUNTY SHALL ACT TO PROHIBIT PARKING ON COMPANY'S PORTION OF PORTOLA PKWY.

1/2 0 2  
3 inches on original drawing

ORANGE COUNTY  
ENVIRONMENTAL MANAGEMENT AGENCY

PORTOLA PARKWAY  
ALICIA PARKWAY  
TYPICAL SECTIONS  
AND DETAILS

REVISIONS  
LPT  
R.A.S.  
JAN 10 1984

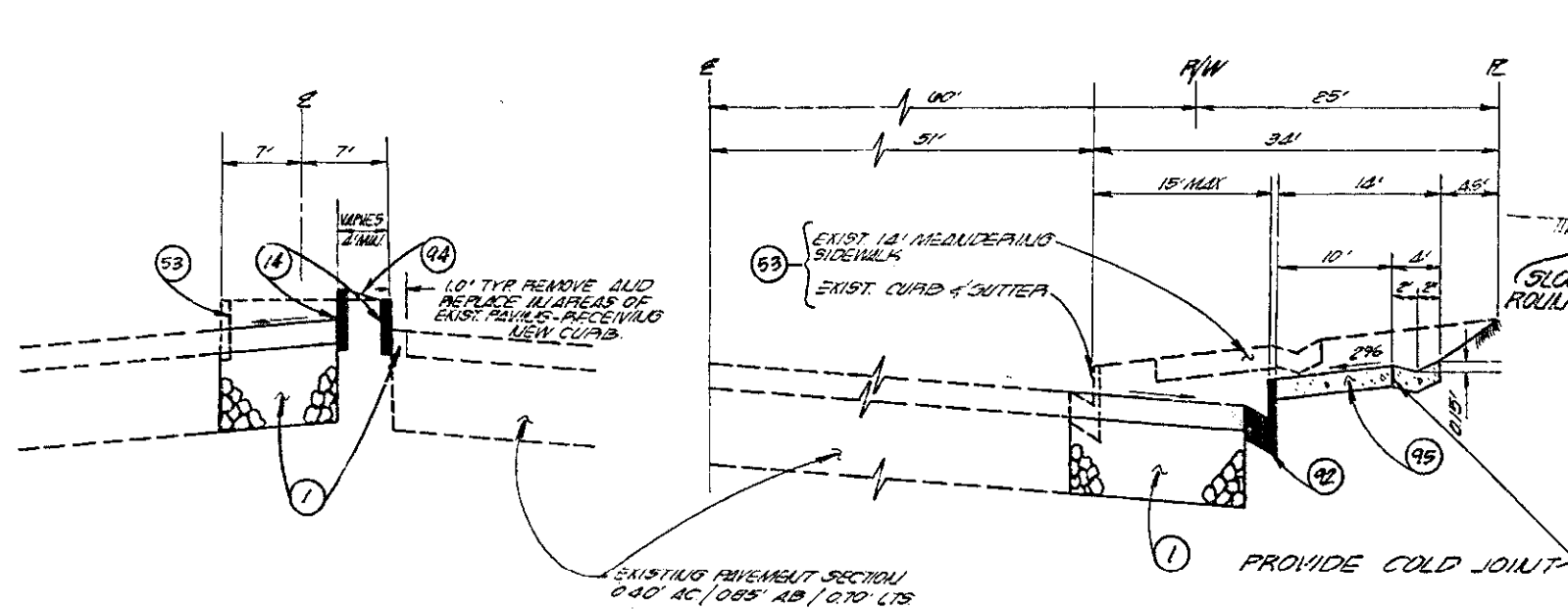
DESIGNED BY LPT  
CHECKED BY R.A.S.  
JAN 10 1984

DR. 20 (13847)

JNH JOB NO. 2065



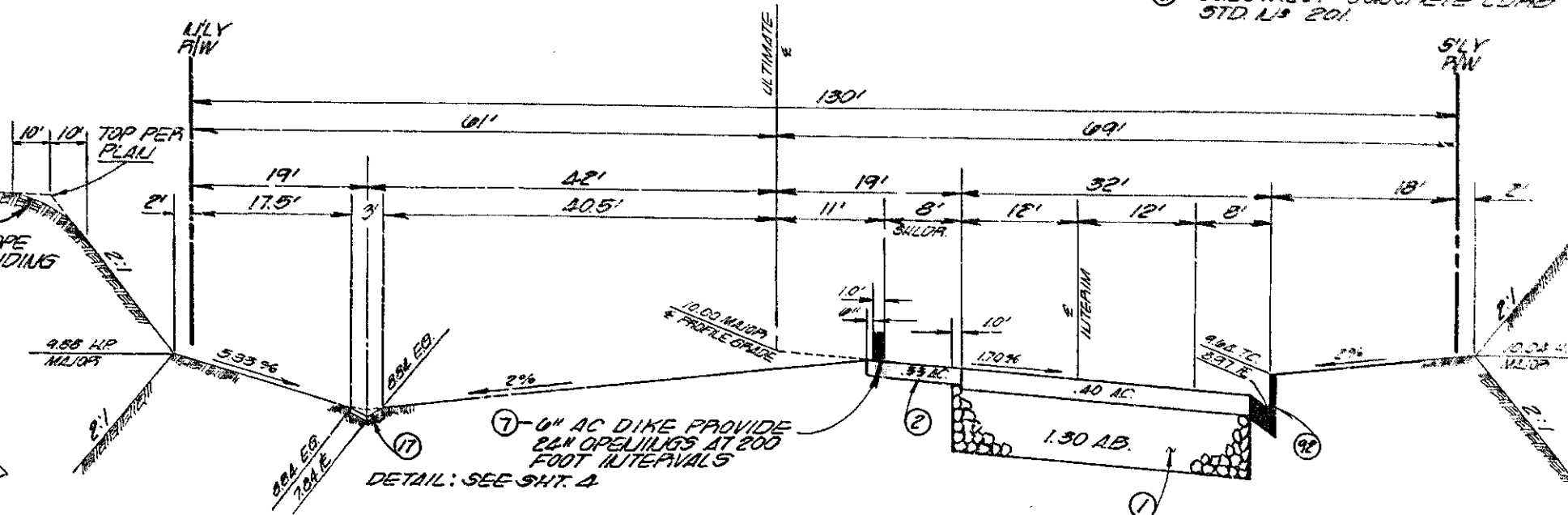
- CONSTRUCTION NOTES CONTD.**
- (14) - INSTALL TYPE "B" 1" CUBES PER OCEMA STD. N° 201.
  - (15) - SAWCUT AND REMOVE EXISTING AC PAVEMENT, CUBES AND CUTTER, AND SIDEWALK.
  - (16) - CONSTRUCT CONCRETE MEDIAN PAVING PER OCEMA STD. N° 201.
  - (17) - CONSTRUCT PCC SIDEWALKS PER OCEMA STD. N° 205 AND DETAIL ON SHEET 2A.



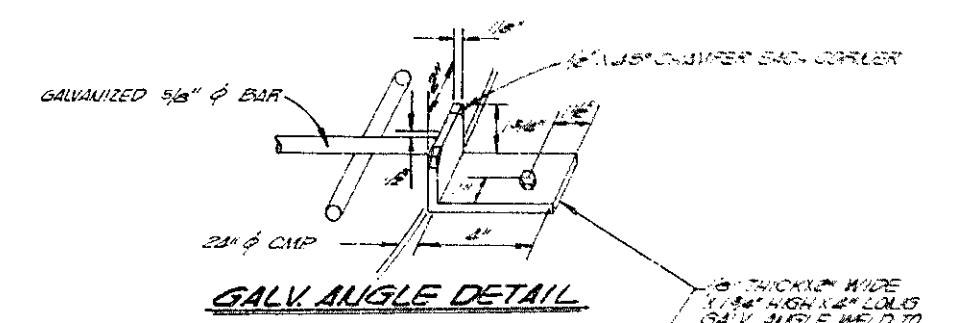
**EL TORO ROAD  
MEDIAN ISLAND  
NO SCALE**

**EL TORO ROAD  
RIGHT TURN LANE  
NO SCALE**

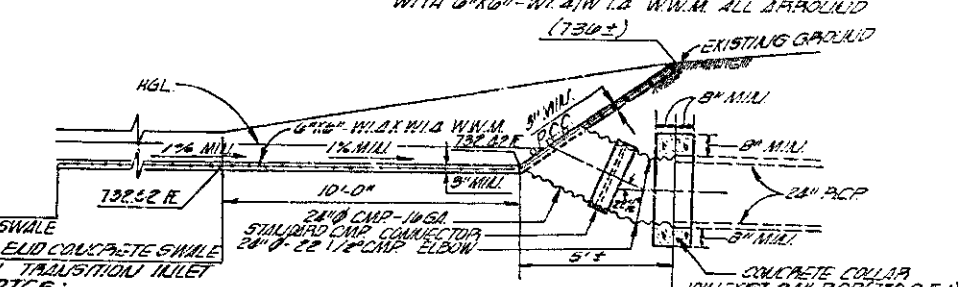
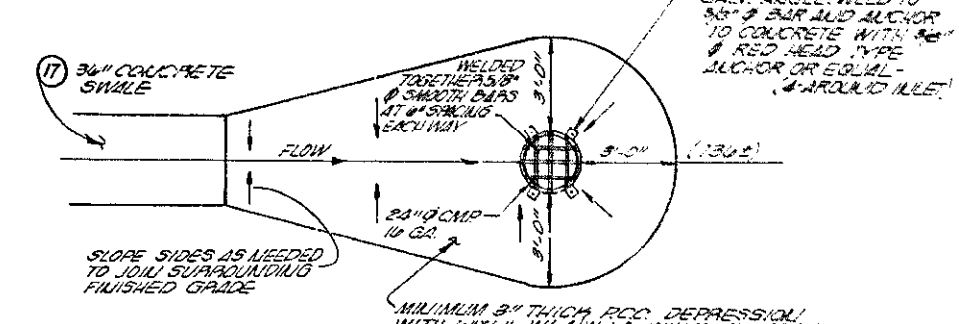
- CONSTRUCTION NOTES**
- (1) - CONSTRUCT 0.6" AC / 1.50' AB (FOR ESTIMATING PURPOSES ONLY. FINAL PAVING SECTION TO BE DETERMINED BY OCEMA MATERIALS SECTION AFTER SUBGRADE IS MADE).
  - (2) - CONSTRUCT 0.3" AC SHOULDER OVER LATIVE SO.
  - (3) - CONSTRUCT 0.4" AC DIKE PER OCEMA STD. N° 201.
  - (4) - CONSTRUCT 3" CONCRETE SWALE PER DETAIL SHEET 1.1.
  - (5) - CONSTRUCT CONCRETE CURB TYPE "A" PER OCEMA STD. N° 201.



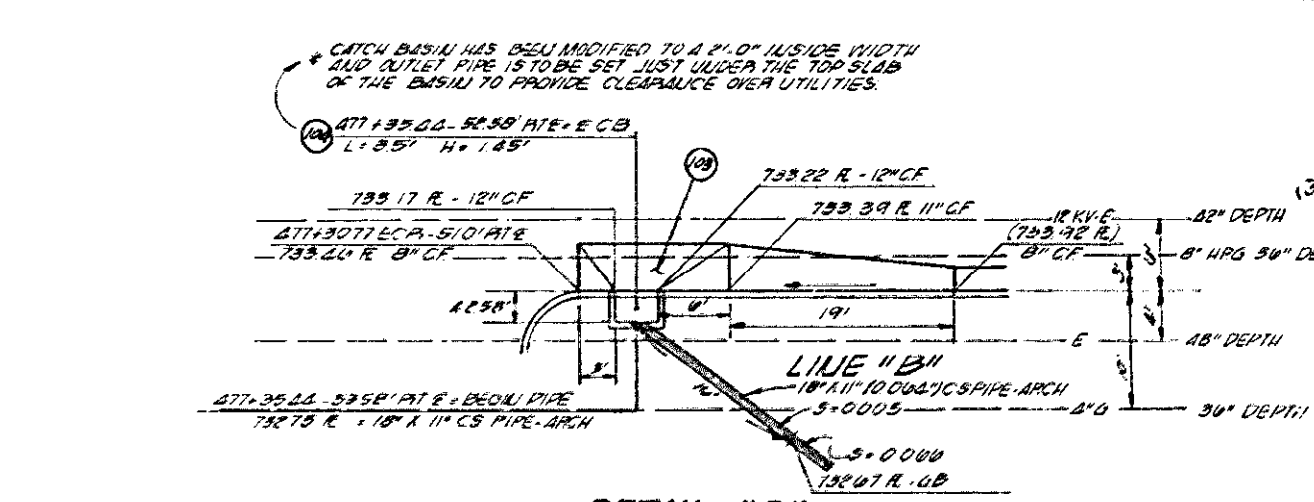
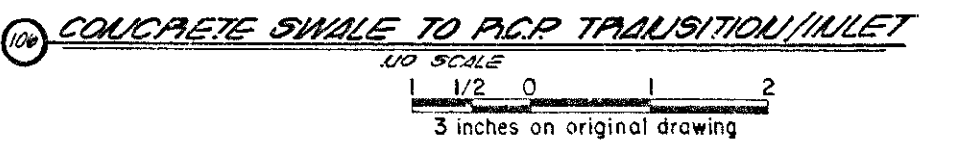
**PORTOLA PARKWAY  
FROM EL TORO ROAD TO 1300' SOUTH  
NO SCALE**



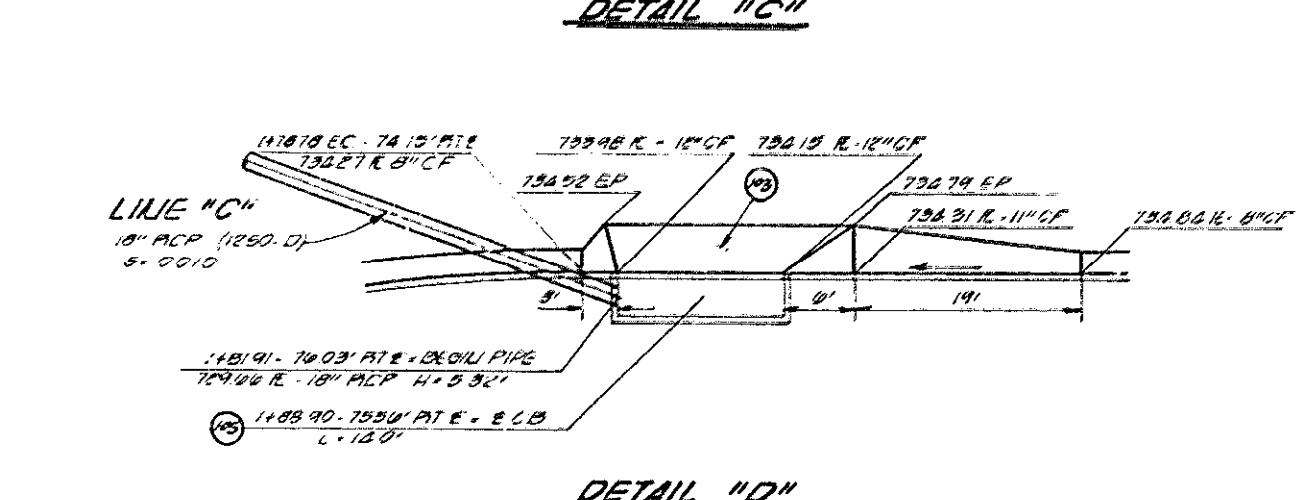
**GALV. ANGLE DETAIL**



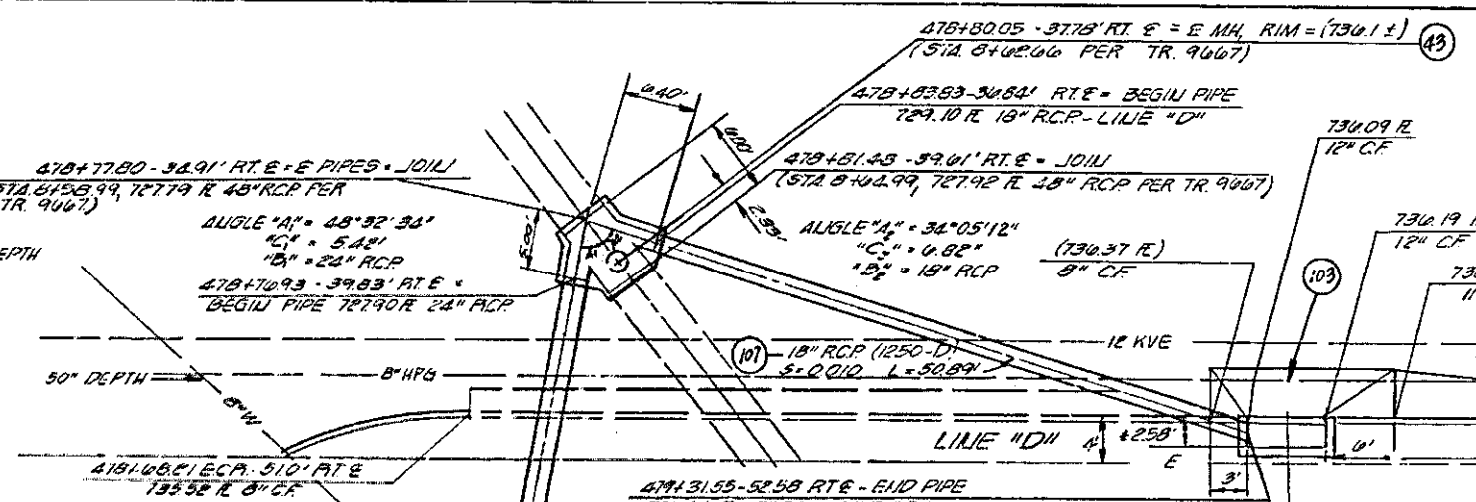
- CONCRETE SWALE TO P.C.P. TRANSITION/INLET**
1. ALL CURB AND FITTINGS SHALL BE GALVANIZED AFTER WELDING.
  2. GATE ASSEMBLY SHALL BE GALVANIZED AFTER FABRICATION.
  3. SEE OCEMA STD. 321 FOR CONCRETE AND REINFORCEMENT REQUIREMENTS.



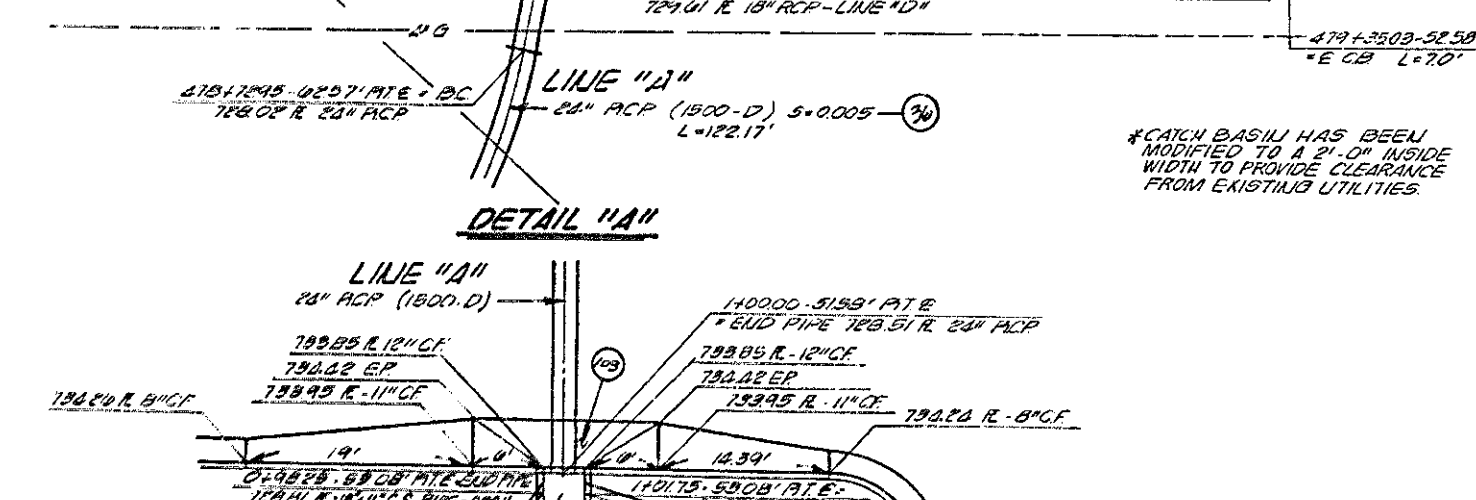
**DETAIL "C"**



**DETAIL "D"**



**DETAIL "A"**



**DETAIL "B"**

- STORM DRAIN CONSTRUCTION NOTES & QUALITY ESTIMATES**
- (18) - CONSTRUCT 24\"/>

**STORM DRAIN DETAILS - REF. SHEET 2A  
NO SCALE**

**NOTE:**  
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS AND UTILITIES CONNECTED TO OR CROSSED BY THIS CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE IMMEDIATELY OF ANY DIFFERENCES BETWEEN ACTUAL LOCATIONS OR ELEVATIONS AND THOSE SHOWN ON THESE PLANS.

**PRELIMINARY**

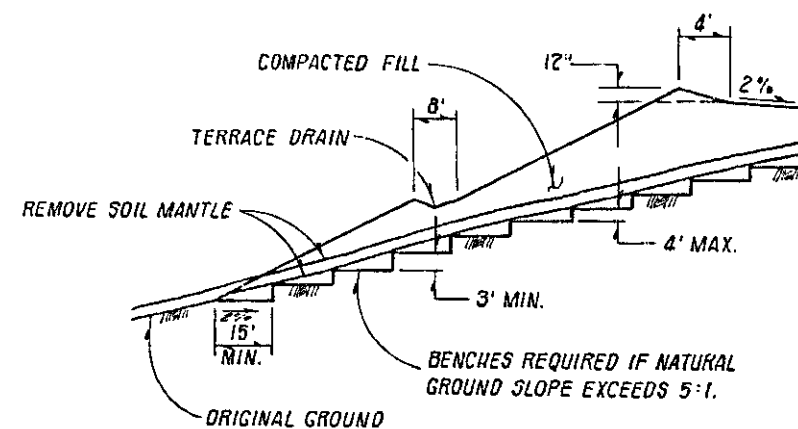
NOT FOR CONSTRUCTION

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>PORTOLA PARKWAY</b> EL TORO ROAD TO S/D M.V.P.C. BOUNDARY TYPICAL SECTIONS AND DETAILS	
DESIGNED: LDT	CHECKED: LDT
DATE: JUL 03	DATE: JUL 03
SCALE: AS SHOWN	SCALE: AS SHOWN
SHEET: 2A	SHEET: 2A
DWG. NO. 57	DWG. NO. 57

PR.20 (43847) JUL 03 N° 2005

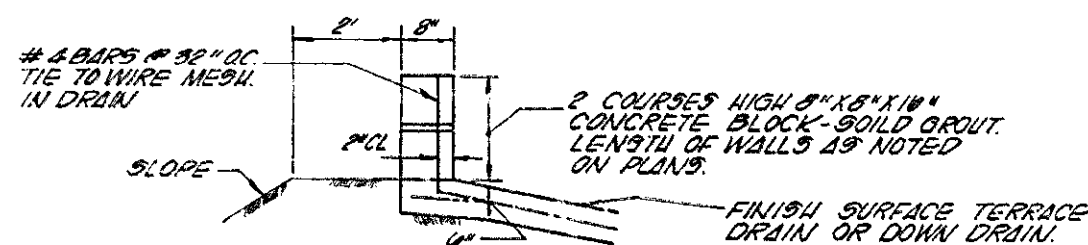




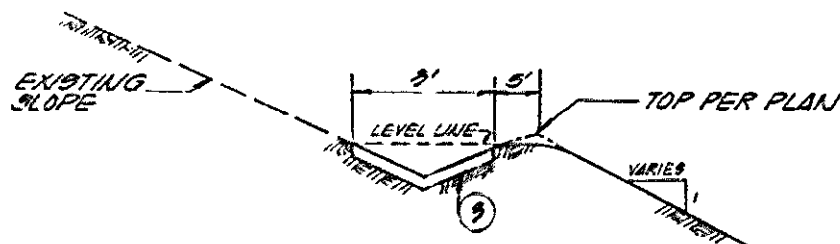


ALL TOP SOIL TO BE REMOVED AND BENCHES TO BE CONSTRUCTED INTO IN PLACE BEDROCK OR FIRM MATERIAL.

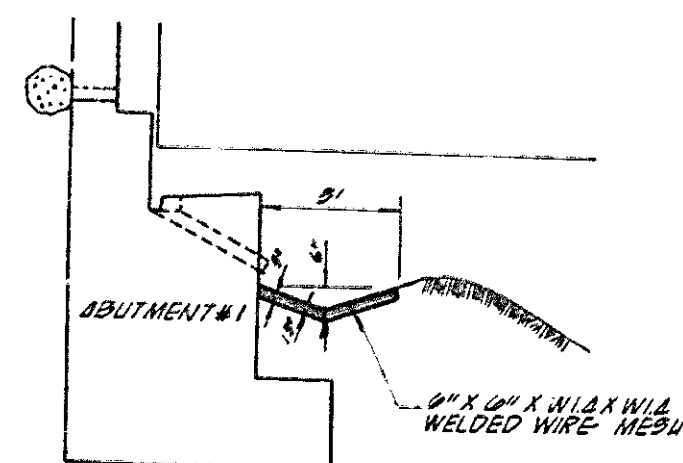
### COMPACTED FILL BENCHING DETAIL NO SCALE



### ③ SPLASH WALL DETAIL NO SCALE

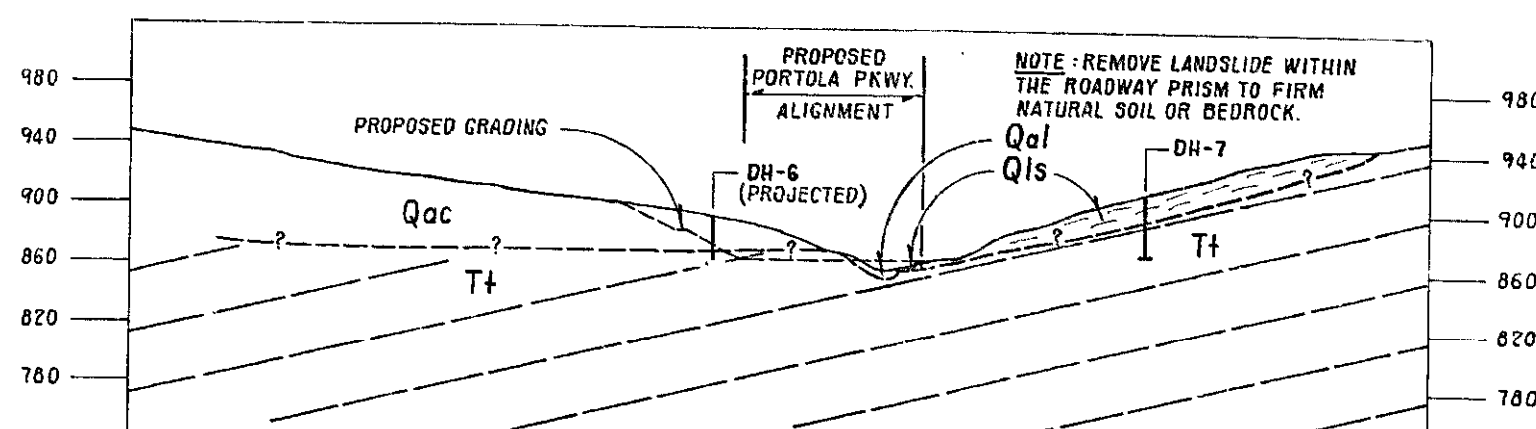


### ③ SLOPE ROUNDING BROW DITCH DETAIL NO SCALE



AT BRIDGE ABUTMENT #1

### ⑪ 31-0" CONCRETE SWALE DETAIL NO SCALE



Qac = ALLUVIUM AND COLLUVIUM  
Qal = RECENT ALLUVIUM

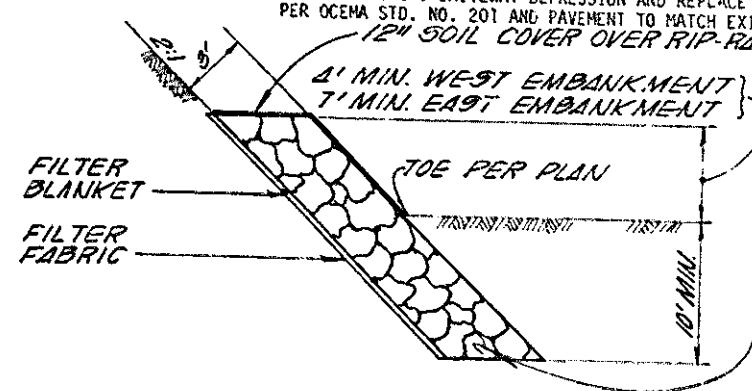
REFERENCE SHT. 9

Qls = LANDSLIDE DEPOSIT  
T+ = TOPANCA FORMATION

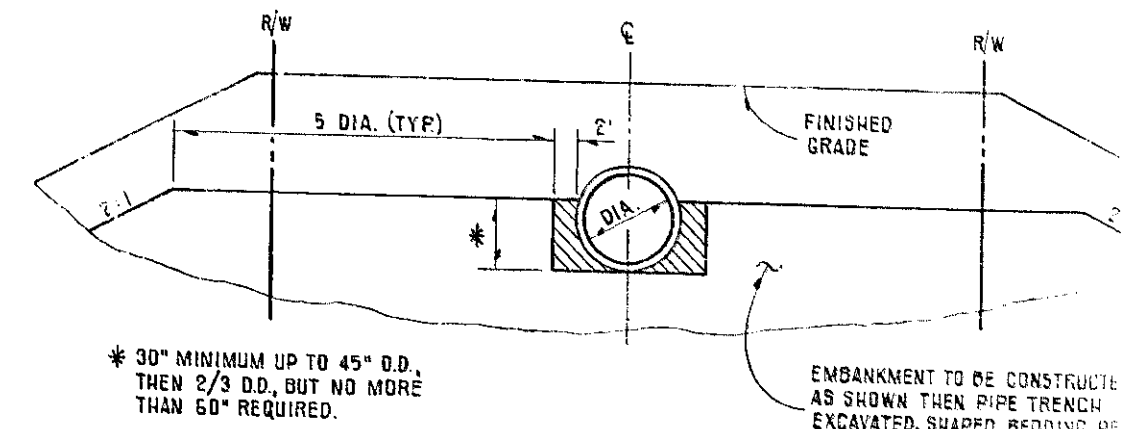
### SECTION 4-4' LANDSLIDE NO SCALE

STREET PLAN CONSTRUCTION NOTES

1. CONSTRUCT A.C. OVER A.B. PER SECTION SHEET NO. 2
2. CONSTRUCT A.C. SHOULDER PER SECTION SHEET NO. 2
3. CONSTRUCT DOWNDRAIN PER OCEMA STD. NO. 321
4. CONSTRUCT MODIFIED TERRACE DRAIN PER DETAIL SHEET NO. 7
5. CONSTRUCT SPLASH WALL PER DETAIL SHEET NO. 2
6. CONSTRUCT 10' WIDE BROW DITCH PER DETAIL SHEET NO. 2
7. CONSTRUCT A.C. DIKE PER OCEMA STD. NO. 201
8. CONSTRUCT A.C. OVERSIDE DRAIN PER CALTRANS STD. NO. D87-B.
9. CONSTRUCT COMPACTED EARTH DIKE
10. CONSTRUCT RETAINING WALL PER DETAIL SHEET NO. 3.
11. INSTALL TYPE "L3" MARKER
12. INSTALL CULVERT MARKER PER OCEMA STD. NO. 402.
13. INSTALL METAL BEAM GUARD RAILING AND REFLECTORS PER OCEMA STD. NO. 401
14. INSTALL TYPE "B-1" CURB PER OCEMA STD. NO. 201
15. INSTALL 5 STRAND BARBED WIRE FENCE
16. CONSTRUCT EMBANKMENT RIP RAP
17. CONSTRUCT 3" CONCRETE SHALE FLR DETAIL SHEET 4
18. CONSTRUCT 1.0' HIGH 5.0' WIDE BERM PER DETAIL SHEET NO. 4
19. INSTALL 4" X 14" RECTANGULAR CAST IRON PIPE PER ALHAMBRA FOUNDRY NO. A-470 OR APPROVED EQUAL
20. CONSTRUCT 90" RCP (900-D)
21. CONSTRUCT 90" RCP (1200-D)
22. CONSTRUCT 90" RCP (1900-D)
23. CONSTRUCT 64" RCP (1500-D)
24. CONSTRUCT 72" RCP (950-D)
25. CONSTRUCT 72" RCP (1200-D)
26. CONSTRUCT 72" RCP (1800-D)
27. CONSTRUCT 60" RCP (1100-D)
28. CONSTRUCT 60" RCP (1400-D)
29. CONSTRUCT 54" RCP (1000-D)
30. CONSTRUCT 48" RCP (1200-D)
31. CONSTRUCT 36" RCP (1250-D)
32. CONSTRUCT 30" RCP (1250-D)
33. CONSTRUCT 30" RCP (1500-D)
34. CONSTRUCT 24" RCP (1000-D)
35. CONSTRUCT 24" RCP (1250-D)
36. CONSTRUCT 24" RCP (1500-D)
37. CONSTRUCT 18" RCP (1750-D)
38. CONSTRUCT 18" RCP (2000-D)
39. INSTALL TYPE V INLET PER OCEMA STD. NO. 305.
40. CONSTRUCT RIP RAP INLET STRUCTURE PER SHT. NO. 2
41. CONSTRUCT REINFORCED CONCRETE MANHOLE PER OCEMA STD. NO. 503
42. CONSTRUCT JUNCTION STRUCTURE TYPE II PER OCEMA STD. NO. 311
43. CONSTRUCT JUNCTION STRUCTURE TYPE III PER OCEMA STD. NO. 312
44. CONSTRUCT JUNCTION STRUCTURE TYPE IV PER OCEMA STD. NO. 313
45. CONSTRUCT JUNCTION STRUCTURE TYPE VI PER OCEMA STD. NO. 315
46. CONSTRUCT ENERGY DISSIPATING OUTLET STRUCTURE PER DETAIL SHEET NO. 3.
47. CONSTRUCT EARTH CHANNEL WITH 2:1 SIDE SLOPES, AND RIP RAP PER DETAIL SHEET NO. 2.
48. CONSTRUCT ENERGY DISSIPATOR RING PER DETAIL SHEET NO. 3.
49. ADJUST EXISTING SEWER MANHOLE TO GRADE.
50. CONSTRUCT 4" A.C. OVER NATIVE MATERIAL.
51. REMOVE AND RELOCATE EXISTING POWER POLES (BY OTHERS)
52. SAWCUT AND REMOVE EXISTING A.C. PAVEMENT, CURB AND GUTTER AND SIDEWALK.
53. REMOVE EXISTING TREES.
54. REMOVE EXISTING FENCING.
55. REMOVE EXISTING DOWNDRAIN AND SPLASHWALL.
56. REMOVE EXISTING DRIVEWAY DEPRESSION AND REPLACE WITH TYPE A-2 CURB AND GUTTER PER OCEMA STD. NO. 201 AND PAVEMENT TO MATCH EXISTING
57. 12" SOIL COVER OVER RIP-RAP EXCEPT IN AREAS OF GROUDED RIP-RAP
58. REMOVE MEDIAN ISLAND, LANDSCAPING, CUT AND CAP EXISTING IRRIGATION LINES BELOW GRADE.
59. PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
60. PAINT 4" SOLID WHITE STRIPE.
61. PAINT 4" DASHED WHITE STRIPE (7' STRIPE, 17' GAP)
62. PAINT 12" SOLID WHITE STRIPE.
63. PAINT 4" SOLID DOUBLE YELLOW STRIPE.
64. PAINT 8" SOLID WHITE STRIPE.
65. PAINT STENCIL "STOP".
66. PAINT STENCIL "STOP".
67. PAINT STENCIL "STOP".
68. PAINT STENCIL "STOP AHEAD".
69. SANDBLAST EXISTING STRIPING.
70. INSTALL W10 (RT.) INTERSECTION SIGN.
71. INSTALL W10 (LT.) INTERSECTION SIGN.
72. INSTALL W17 "STOP AHEAD" SIGN.
73. INSTALL R1 "STOP" SIGN.
74. INSTALL W34 "MERGING LANE" SIGN.
75. INSTALL R10 (LT.) "ONE WAY" SIGN.
76. INSTALL R39 "YIELD" SIGN.
77. INSTALL R10 (RT.) "ONE WAY" SIGN.
78. INSTALL TYPE "N" REFLECTOR AND NOSE MARKING PER DETAIL SHEET NO. 7 AND OCEMA STD. 409.
79. INSTALL TYPE "K" REFLECTOR, W9DOT R4-7 SIGN AND NOSE MARKING PER DETAIL SHEET NO. 7.
80. INSTALL STREET NAME SIGN PER OCEMA STD. NO. 407.
81. INSTALL 07 STREET NAME SIGN.
82. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNS.
83. INSTALL W7 "INTERSECTION" SIGN.
84. INSTALL R26 "NO PARKING" SIGN.
85. INSTALL R11 AND R11A "DO NOT ENTER" SIGN.
86. INSTALL ACCESS RAMP PER OCEMA STD. NO. 111.
87. REMOVE AND RELOCATE EXISTING STREET LIGHT (BY OTHERS).
88. INSTALL 2" A.C. OVER NATIVE.
89. INSTALL 5' X 10' QUARTER TON RIP RAP PAD PER CALTRANS STANDARD SPECIFICATIONS, SECTION 72, METHOD "B" PLACEMENT.
90. INSTALL 4" AGGREGATE BASE LEVEL WITH THE TOP OF THE CURB. APPLY SOIL STERILANT BEFORE AND AFTER INSTALLATION.
91. CONSTRUCT 0.5, TYPE "I" PER OCEMA STD. NO. 310.
92. CONSTRUCT CONCRETE CURB TYPE "A-2" PER OCEMA STD. NO. 201
93. DEMOLISH AND REMOVE ALL BUILDINGS AND APPURTENANCES INCLUDING FOUNDATIONS AND GRADE AREA SMOOTH. CUT AND CAP ALL EXISTING UTILITY LINES A MINIMUM OF 3 FEET BELOW PROPOSED FINISHED GRADE.
94. CONSTRUCT CONCRETE MEDIAN PAVING PER OCEMA STD. NO. 807.
95. CONSTRUCT 14" P.C.C. SIDEWALK PER OCEMA STD. NO. 205 AND DETAIL ON SHEET 2A.
96. CONSTRUCT 10" P.C.C. SIDEWALK PER OCEMA STD. NO. 205.
97. INSTALL R18 "RIGHT LANE MUST TURN RIGHT" SIGN.
98. PAINT 4" DASH/4" SOLID YELLOW STRIPE.
99. EXISTING 4" DASHED WHITE STRIPE REMOVE AND REPAINT AS NECESSARY TO CONFORM TO PROPOSED STRIPING.
100. REMODEL LANDSCAPING AS NECESSARY TO BLEND WITH EXISTING.
101. INSTALL W56 "W" SIGN.
102. CONSTRUCT 18" RCP (1250-D) CORRUGATED STEEL PIPE-ARCH
103. CONSTRUCT LOCAL DEPRESSION PER OCEMA STD. NO. 308 AND DETAIL SHEET NO. 2A.
104. CONSTRUCT INLET TYPE "I1" PER OCEMA STD. NO. 301.
105. CONSTRUCT INLET TYPE "I1". PER OCEMA STD. NO. 302.
106. CONSTRUCT TRANSITION/INLET STRUCTURE (FOR 36" CONCRETE SHALE TO EXIST 24" R.C.P.) PER DETAIL SHEET 2A.
107. CONSTRUCT 18" RCP (1250-D)
108. RELOCATE EXISTING MEDIAN DRAIN TO STA 481 + 00. JOIN TO EXISTING 8" DIA. UNDERGROUND DRAIN LINE AT STA. 481 + 80 WITH NEW 4" P.V.C. AND GRADE MEDIAN TO DRAIN TO INLET, SEAL OFF EXIST. 8" A.C.P. AT STA 479 + 05 AFTER REMOVING INLET.
110. REMOVE AND SALVAGE TO O.C.E.M.A. YARD EXISTING C.M.P.
111. INSTALL PRESSURE REGULATOR TO COMPENSATE FOR ADDED PRESSURE DUE TO REMOVED SPRINKLER LINES, SIZE TO MATCH EXISTING PIPES.
112. INSTALL R25B "NO PARKING HERE TO CORNER" SIGN.
113. INSTALL R16 AND R16A "NO RIGHT TURN" SIGN.
114. INSTALL NO. 5 PULL BOX
115. INSTALL CONDUCTOR CONDUIT FOR FUTURE SIGNAL. SIZE AS SHOWN.
116. REMOVE, RELOCATE, OR ADJUST TO GRADE EXISTING UTILITIES (BY OTHERS).
117. REMOVE, RELOCATE, AND/OR RECONNECT EXISTING IRRIGATION SYSTEMS IN CONFLICT WITH THE ROADWAY RECONSTRUCTION.
118. INSTALL R18 "RIGHT LANE MUST TURN RIGHT" SIGN.



### ⑩ EMBANKMENT RIP-RAP DETAIL NO SCALE



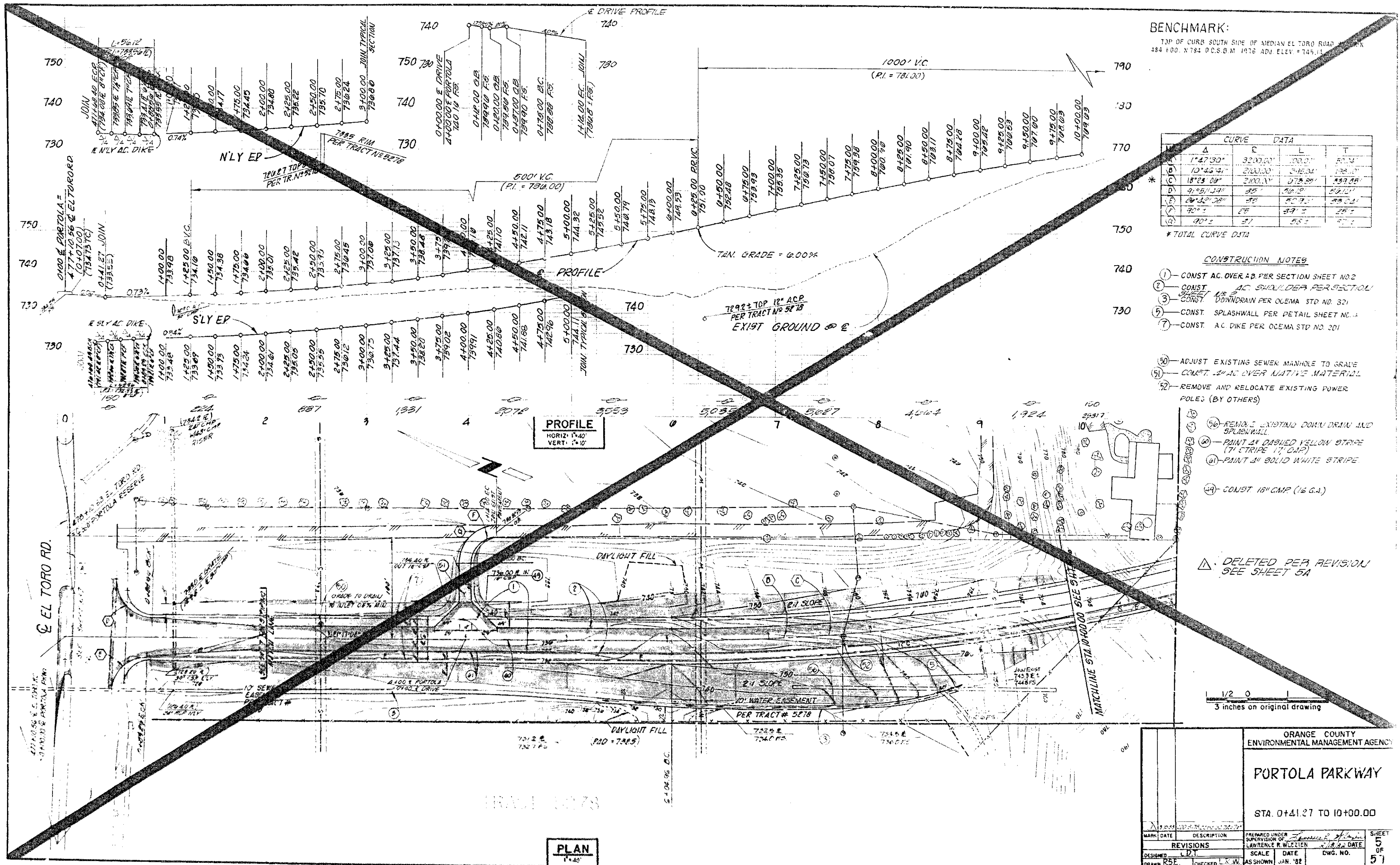
### CONCRETE PIPE EMBANKMENT INSTALLATION DETAIL NO SCALE

58. REMOVE MEDIAN ISLAND, LANDSCAPING, CUT AND CAP EXISTING IRRIGATION LINES BELOW GRADE.
60. PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
61. PAINT 4" SOLID WHITE STRIPE.
62. PAINT 4" DASHED WHITE STRIPE (7' STRIPE, 17' GAP)
63. PAINT 12" SOLID WHITE STRIPE.
64. PAINT 4" SOLID DOUBLE YELLOW STRIPE.
65. PAINT 8" SOLID WHITE STRIPE.
66. PAINT STENCIL "STOP".
67. PAINT STENCIL "STOP".
68. PAINT STENCIL "STOP AHEAD".
69. SANDBLAST EXISTING STRIPING.
70. INSTALL W10 (RT.) INTERSECTION SIGN.
71. INSTALL W10 (LT.) INTERSECTION SIGN.
72. INSTALL W17 "STOP AHEAD" SIGN.
73. INSTALL R1 "STOP" SIGN.
74. INSTALL W34 "MERGING LANE" SIGN.
75. INSTALL R10 (LT.) "ONE WAY" SIGN.
76. INSTALL R39 "YIELD" SIGN.
77. INSTALL R10 (RT.) "ONE WAY" SIGN.
78. INSTALL TYPE "N" REFLECTOR AND NOSE MARKING PER DETAIL SHEET NO. 7 AND OCEMA STD. 409.
79. INSTALL TYPE "K" REFLECTOR, W9DOT R4-7 SIGN AND NOSE MARKING PER DETAIL SHEET NO. 7.
80. INSTALL STREET NAME SIGN PER OCEMA STD. NO. 407.
81. INSTALL 07 STREET NAME SIGN.
82. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNS.
83. INSTALL W7 "INTERSECTION" SIGN.
84. INSTALL R26 "NO PARKING" SIGN.
85. INSTALL R11 AND R11A "DO NOT ENTER" SIGN.
86. INSTALL ACCESS RAMP PER OCEMA STD. NO. 111.
87. REMOVE AND RELOCATE EXISTING STREET LIGHT (BY OTHERS).
88. INSTALL 2" A.C. OVER NATIVE.
89. INSTALL 5' X 10' QUARTER TON RIP RAP PAD PER CALTRANS STANDARD SPECIFICATIONS, SECTION 72, METHOD "B" PLACEMENT.
90. INSTALL 4" AGGREGATE BASE LEVEL WITH THE TOP OF THE CURB. APPLY SOIL STERILANT BEFORE AND AFTER INSTALLATION.
91. CONSTRUCT 0.5, TYPE "I" PER OCEMA STD. NO. 310.
92. CONSTRUCT CONCRETE CURB TYPE "A-2" PER OCEMA STD. NO. 201
93. DEMOLISH AND REMOVE ALL BUILDINGS AND APPURTENANCES INCLUDING FOUNDATIONS AND GRADE AREA SMOOTH. CUT AND CAP ALL EXISTING UTILITY LINES A MINIMUM OF 3 FEET BELOW PROPOSED FINISHED GRADE.
94. CONSTRUCT CONCRETE MEDIAN PAVING PER OCEMA STD. NO. 807.
95. CONSTRUCT 14" P.C.C. SIDEWALK PER OCEMA STD. NO. 205 AND DETAIL ON SHEET 2A.
96. CONSTRUCT 10" P.C.C. SIDEWALK PER OCEMA STD. NO. 205.
97. INSTALL R18 "RIGHT LANE MUST TURN RIGHT" SIGN.
98. PAINT 4" DASH/4" SOLID YELLOW STRIPE.
99. EXISTING 4" DASHED WHITE STRIPE REMOVE AND REPAINT AS NECESSARY TO CONFORM TO PROPOSED STRIPING.
100. REMODEL LANDSCAPING AS NECESSARY TO BLEND WITH EXISTING.
101. INSTALL W56 "W" SIGN.
102. CONSTRUCT 18" RCP (1250-D) CORRUGATED STEEL PIPE-ARCH
103. CONSTRUCT LOCAL DEPRESSION PER OCEMA STD. NO. 308 AND DETAIL SHEET NO. 2A.
104. CONSTRUCT INLET TYPE "I1" PER OCEMA STD. NO. 301.
105. CONSTRUCT INLET TYPE "I1". PER OCEMA STD. NO. 302.
106. CONSTRUCT TRANSITION/INLET STRUCTURE (FOR 36" CONCRETE SHALE TO EXIST 24" R.C.P.) PER DETAIL SHEET 2A.
107. CONSTRUCT 18" RCP (1250-D)
108. RELOCATE EXISTING MEDIAN DRAIN TO STA 481 + 00. JOIN TO EXISTING 8" DIA. UNDERGROUND DRAIN LINE AT STA. 481 + 80 WITH NEW 4" P.V.C. AND GRADE MEDIAN TO DRAIN TO INLET, SEAL OFF EXIST. 8" A.C.P. AT STA 479 + 05 AFTER REMOVING INLET.
110. REMOVE AND SALVAGE TO O.C.E.M.A. YARD EXISTING C.M.P.
111. INSTALL PRESSURE REGULATOR TO COMPENSATE FOR ADDED PRESSURE DUE TO REMOVED SPRINKLER LINES, SIZE TO MATCH EXISTING PIPES.
112. INSTALL R25B "NO PARKING HERE TO CORNER" SIGN.
113. INSTALL R16 AND R16A "NO RIGHT TURN" SIGN.
114. INSTALL NO. 5 PULL BOX
115. INSTALL CONDUCTOR CONDUIT FOR FUTURE SIGNAL. SIZE AS SHOWN.
116. REMOVE, RELOCATE, OR ADJUST TO GRADE EXISTING UTILITIES (BY OTHERS).
117. REMOVE, RELOCATE, AND/OR RECONNECT EXISTING IRRIGATION SYSTEMS IN CONFLICT WITH THE ROADWAY RECONSTRUCTION.
118. INSTALL R18 "RIGHT LANE MUST TURN RIGHT" SIGN.

1/2 0 2  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT	
PORTOLA PARK ALICIA PARK DETAILS	
PREPARED UNDER SUPERVISION OF JAMES R. HAYES, P.E. DATE: APR 82	
DESIGNED LDX	SCALE AS SHOWN
DRAWN RSE	CHECKED APR 82
DWG. NO.	

DR. 20 (13847)



BENCHMARK:  
TOP OF CURB SOUTH SIDE OF MEDIAN EL TORO ROAD  
194 +00. N784 D.C.S. 6 M 1976 ADJ. ELEV. = 745.11

CURVE DATA				
STATION	Δ	C	L	T
1	1°47'30"	3200.00'	100.00'	51.14'
2	10°45'34"	2100.00'	50.00'	184.10'
3	18°25'00"	2100.00'	075.89'	353.86'
4	9°55'13"	35'	10.10'	55.10'
5	20°32'28"	35'	20.71'	55.01'
6	90°	25'	39.12'	25.12'
7	40°	37'	55.12'	57.12'

- \* TOTAL CURVE DATA
- CONSTRUCTION NOTES
- 1) CONST. AC. OVER AD. PER SECTION SHEET NO. 2
  - 2) CONST. 18" AC. SHOULDER PER SECTION
  - 3) CONST. DRAINAGE PER OCMA STD. NO. 301
  - 4) CONST. SPLASHWALL PER DETAIL SHEET NO. 1
  - 5) CONST. AC. DIKE PER OCMA STD. NO. 301

- 50) ADJUST EXISTING SEWER MANHOLE TO GRADE
- 51) CONST. 18" AC. OVER NATIVE MATERIAL
- 52) REMOVE AND RELOCATE EXISTING POWER POLES (BY OTHERS)
- 53) REMOVE EXISTING DRAIN AND SPLASHWALL
- 54) PAINT 24 DASHED YELLOW STRIPE (7" STRIPE 1" GAP)
- 55) PAINT 34 SOLID WHITE STRIPE
- 56) CONST. 18" CMP (1/2 G.A.)

DELETED PER REVISION  
SEE SHEET 5A

1/2" = 0'  
3 inches on original drawing

ORANGE COUNTY  
ENVIRONMENTAL MANAGEMENT AGENCY

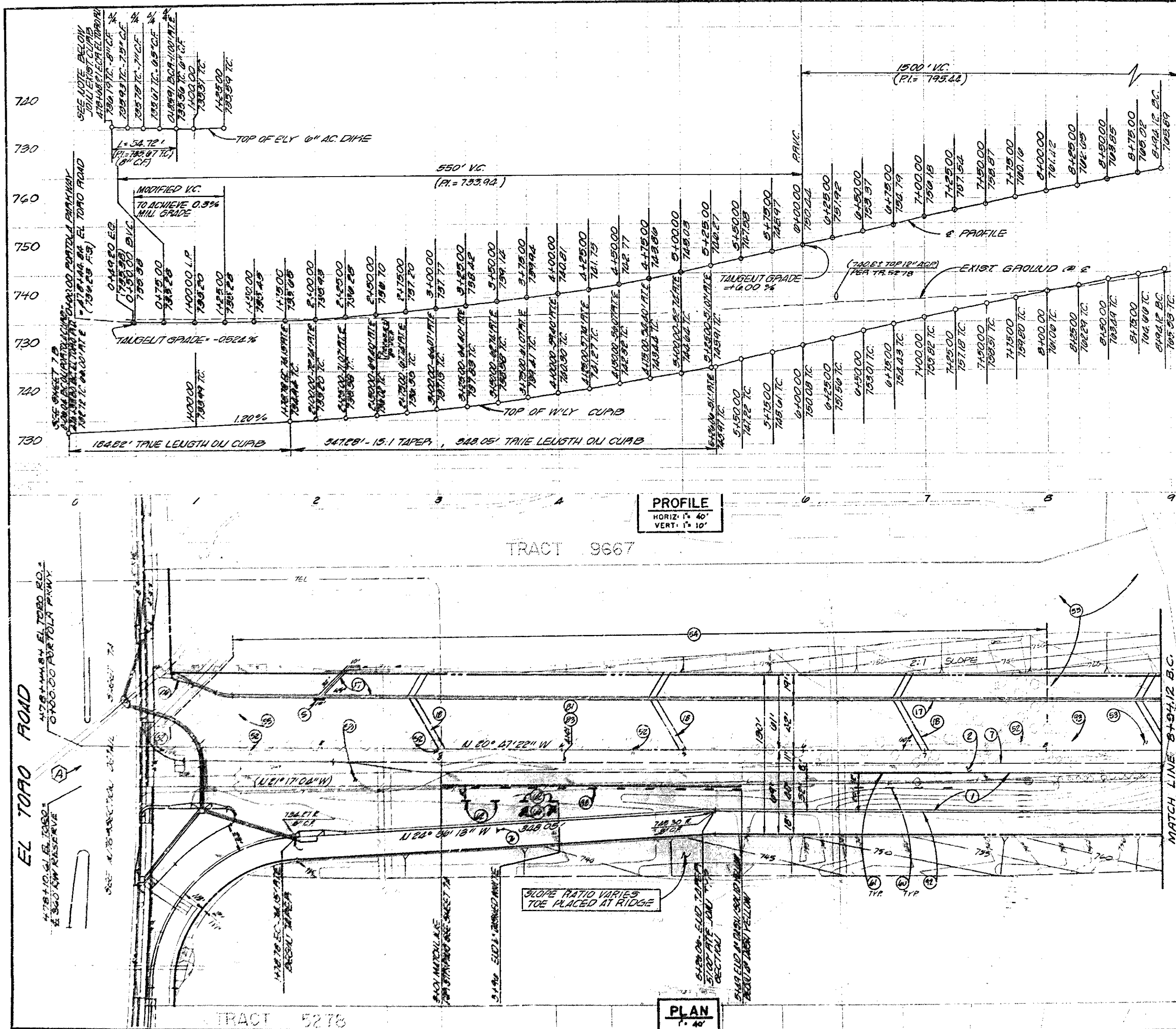
PORTOLA PARKWAY

STA. 0+41.27 TO 10+00.00

MARK	DATE	DESCRIPTION	PREPARED UNDER	SHEET
DESIGNED	L.D.T.	REVISIONS	LAWRENCE R. WELTZEN	5
DRAWN	RSE	CHECKED	AS SHOWN	51

DR. 20 (13847) JHH JOB NO. 2005





**BENCHMARK:**  
TOP OF CURB SOUTH SIDE OF MEDIAN  
EL TORO ROAD STATION 484+00. UTM 40.53M.  
1970 ADI. ELEV = 745.14

CURVE DATA				
NO	Δ	P	L	T
(A)	0°36'45"	3200.00'	34.23'	17.12'

- CONSTRUCTION NOTES**
1. CONST. AC OVER AB. PER SECTION SHEET NO. 2A
  2. CONST. AC SHOULDER PER SECTION SHEET NO. 2
  3. CONST. SPLASH WALL PER DETAIL SHEET NO. 4
  4. CONST. AC DIKE PER OCMA STD. NO. 201
  5. CONST. 3' CONCRETE SWALE PER DETAIL SHEET NO. 4
  6. CONST. 10' HIGH 50' WIDE BEAM PER DETAIL SHEET NO. 4
  7. REMOVE EXISTING POWER POLES (BY OTHERS)
  8. REMOVE EXISTING PAVEMENT
  9. REMOVE EXISTING TREES
  10. REMOVE EXISTING FENCING
  11. PAINT 2" DASHED YELLOW STRIPE (7' STRIPE) (7' GAP)
  12. PAINT 2" SOLID WHITE STRIPE
  13. PAINT 2" DASHED WHITE STRIPE (7' STRIPE) (7' GAP)
  14. PAINT STENCIL ARROW
  15. INSTALL 30" YIELD SIGL
  16. INSTALL 67 STREET NAME SIGL "EL TORO ROAD"
  17. INSTALL W7 "INTERSECTION" SIGL
  18. CONST. CONCRETE CURB TYPE "A2" PER OCMA STD. NO. 201
  19. DEMOLISH AND REMOVE ALL BUILDINGS AND APPURTENANCES INCLUDING FOUNDATIONS AND GRADE AREA SMOOTH CUT AND CAP 24" EXISTING DITCH. MINIMUM OF 3 FEET BELOW PROPOSED FINISHED GRADE. SEE SHT. 04 FOR NOTE REGARDING SEWER & WATER
  20. PAINT 3" DASHED / 2" SOLID YELLOW STRIPE
  21. COL. 3" TAILGATE/INLET STRUCTURE (FOR 36" CONCRETE SWALE TO 24" ST 24" RCP) PER DETAIL SHEET 2A

**NOTE:**  
PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION AND ELEVATION OF ALL EXISTING IMPROVEMENTS AND UTILITIES CONNECTED TO OR CROSSED BY THIS CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN CHARGE IMMEDIATELY OF ANY DIFFERENCES BETWEEN ACTUAL LOCATIONS OR ELEVATIONS AND THOSE SHOWN ON THESE PLANS.

**NOTE:** SEE SHT. 04 REGARDING REMOVAL OF SEWER & WATER FACILITIES

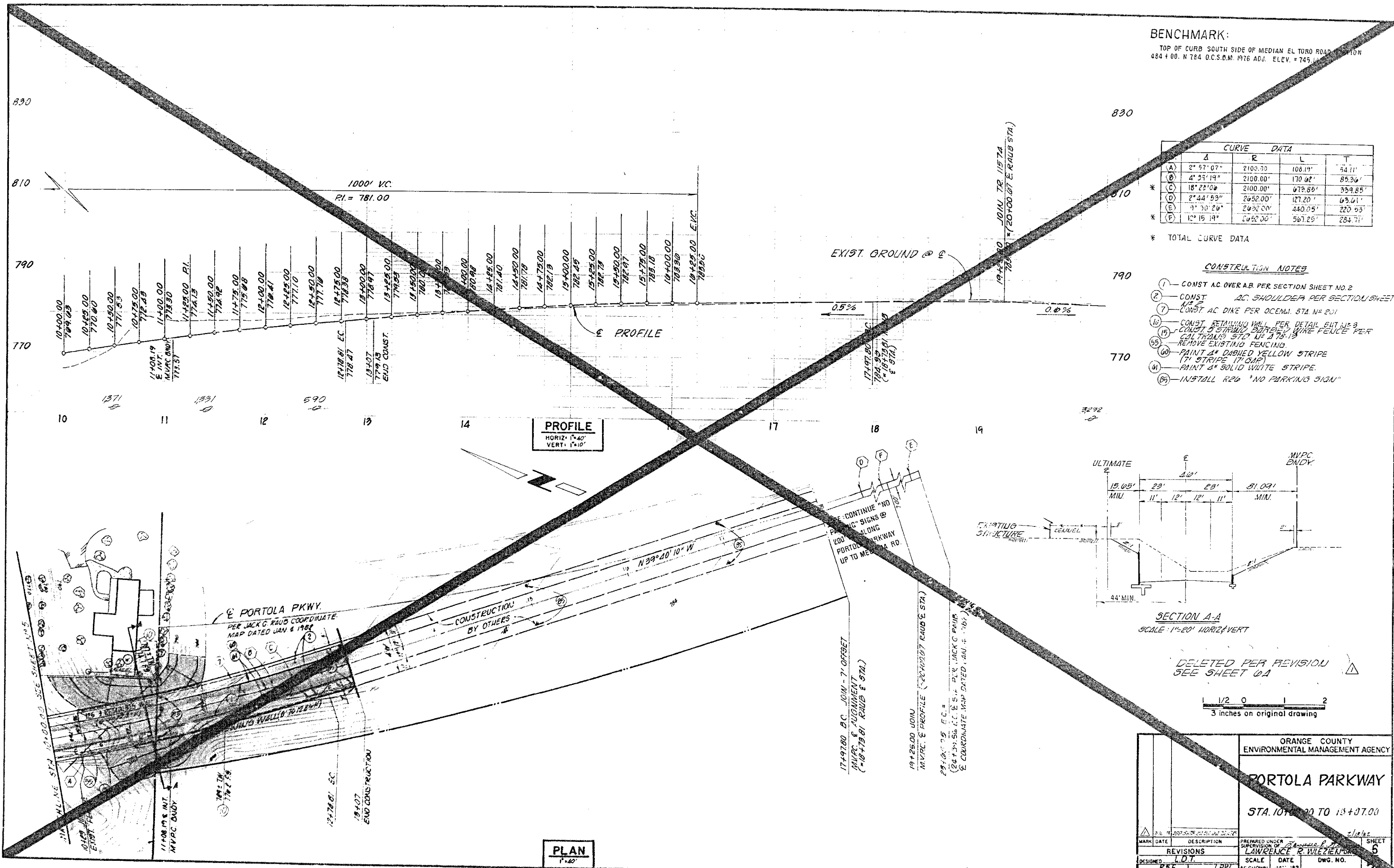
1/2 0 2  
3 inches on original drawing

**PRELIMINARY**

NOT FOR CONSTRUCTION

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PORTOLA PARKWAY	
STA 04+00.00 TO 84+94.12 BC	
PREPARED UNDER SUPERVISION OF DATE	SHEET 5A
REVISIONS	DATE
SCALE	DWG. NO.
AS SHOWN	57

DR. 10 (13847) JAN. 100 1/2 2005



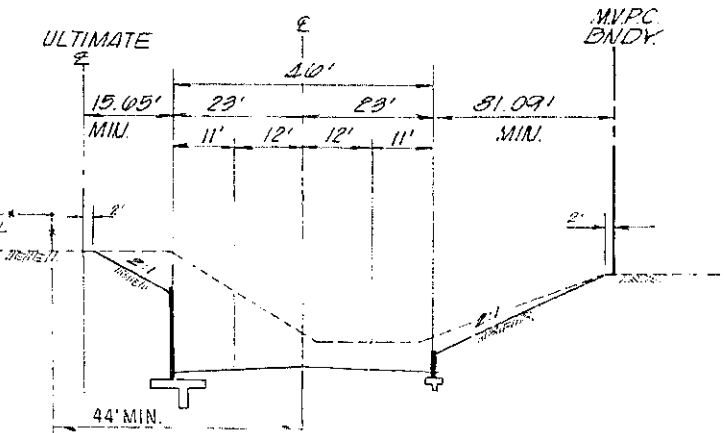
BENCHMARK:  
TOP OF CURB SOUTH SIDE OF MEDIAN EL TORO ROAD  
484 + 00. N 184 O.C.S.D.M. 1976 ADJ. ELEV. = 745.11

CURVE DATA				
	Δ	R	L	T
(A)	2° 57' 07"	2100.00'	108.19'	54.11'
(B)	4° 33' 19"	2100.00'	170.02'	85.36'
(C)	18° 23' 09"	2100.00'	678.85'	359.85'
(D)	2° 44' 53"	2452.00'	127.20'	63.61'
(E)	3° 30' 26"	2452.00'	440.05'	220.03'
(F)	12° 15' 19"	2452.00'	567.25'	283.71'

\* TOTAL CURVE DATA

CONSTRUCTION NOTES

1. CONST AC OVER A.B. PER SECTION SHEET NO. 2
2. CONST AC SHOULDER PER SECTION SHEET
3. CONST AC DIKE PER OCENM. STA. NO. 201
4. CONST RETAINING WALL PER DETAIL SUT. 12.3
5. CONST 5 STRIP BARRIERS WIRE FENCE PER
6. CALTRANS STD. UP 275.13
7. REMOVE EXISTING FENCING
8. PAINT 4" DASHED YELLOW STRIPE
9. (7) STRIPE (17) DASH
10. PAINT 4" SOLID WHITE STRIPE
11. INSTALL R20 "NO PARKING SIGN"



SECTION A-A  
SCALE: 1"=20' HORIZ. VERT.

DELETED PER REVISION  
SEE SHEET 0A

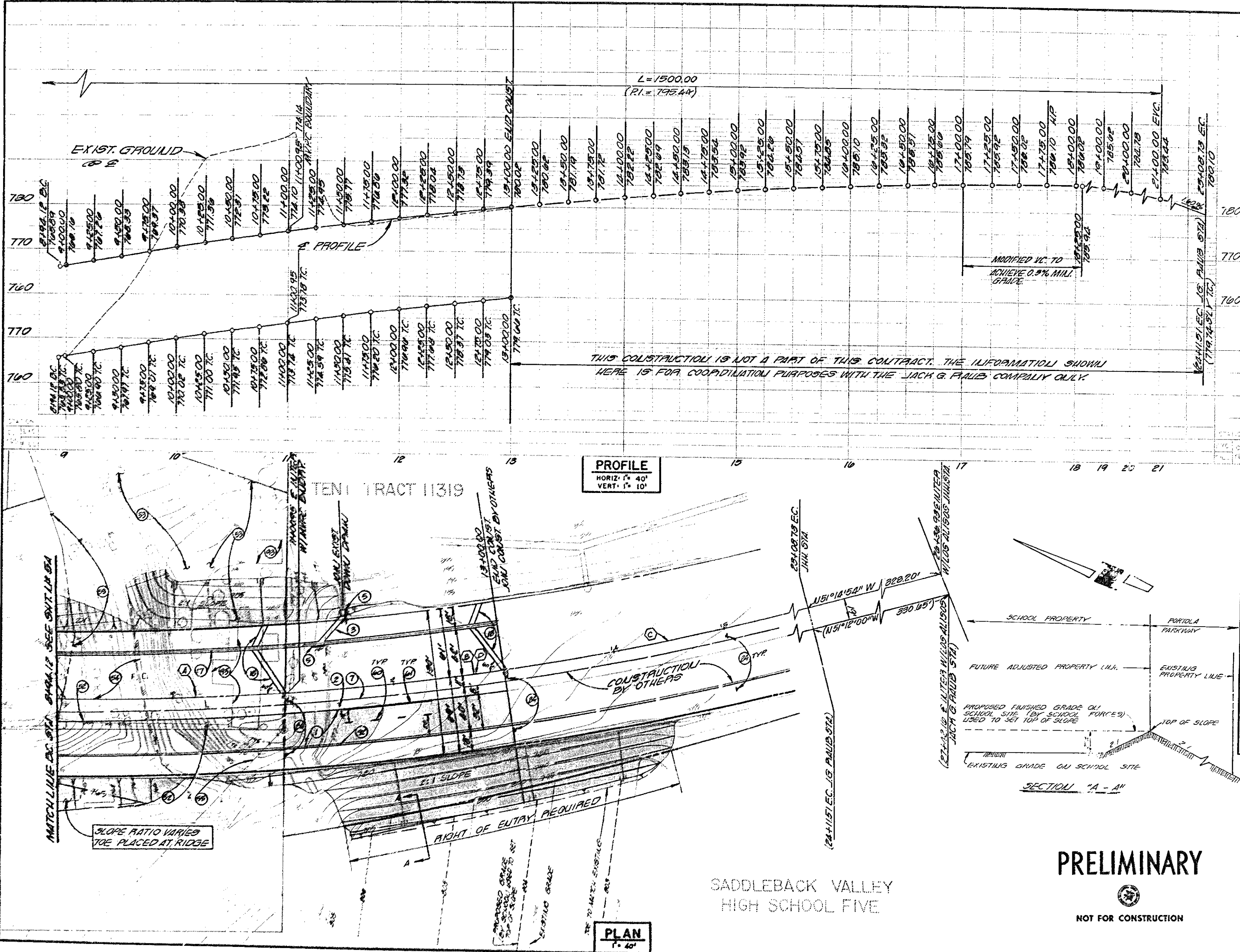
1/2 0 2  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PORTOLA PARKWAY	
STA. 10+00 TO 13+97.00	
DESIGNED E.S.E.	CHECKED L.R.W.
DATE 10/2/82	DATE 10/2/82
SCALE AS SHOWN	DWG. NO. 5

DR. 20 (13047)

J.H.H. JOB NO. 2005





BENCHMARK:  
TOP OF CURB SOUTH SIDE OF MEDIAN  
EL TOP OF ROAD STATION 484+00. UTM 484.00 S.M.  
1910 ADJ. ELEV. = 749.14

CURVE DATA				
NO.	Δ	P	L	T
(A)	2° 27' 12"	2001.00'	200.83'	103.47'
(B)	2° 17' 09"	2001.00'	199.05'	99.57'
(C)	2° 23' 11"	2001.00'	100.87'	510.40'
(D)	30° 27' 32"	2001.00'	12.12.41'	722.45'

\* TOTAL CURVE DATA

CONSTRUCTION NOTES

1. CONSTRUCT AC OVERPASS PER SECTION SHEET L# 2A.
2. CONSTRUCT AC SHOULDER PER SECTION SHEET L# 2A.
3. CONSTRUCT DRAINAGE PER OCCEMA STD L# 321.
4. CONSTRUCT SPLASH WALL PER DETAIL SHEET L# 4.
5. CONSTRUCT AC DIME PER OCCEMA STD L# 201.
6. CONSTRUCT 3" CONCRETE GUTTER PER DETAIL SHEET L# 2A.
7. CONSTRUCT 10" HIGH 50" WIDE BERM PER DETAIL SHEET L# 2A.
8. REMOVE EXISTING POWER POLES (BY OTHERS).
9. REMOVE EXISTING PAVEMENT AND SIDEWALK.
10. REMOVE EXISTING TREES.
11. REMOVE EXISTING FENCING.
12. PAINT 4" DASHED YELLOW STRIPE (17' GAP).
13. PAINT 4" SOLID WHITE STRIPE.
14. INSTALL 2" X 10" PARALLEL SIGN (200' OC).
15. CONSTRUCT PORTOLA PARKWAY UP TO MEDIAN ROAD PER OCCEMA STD L# 201.
16. CONSTRUCT CONCRETE CURB TYPE "A-2" PER OCCEMA STD L# 201.
17. DEMOLISH AND REMOVE ALL BUILDINGS AND APPURTENANCES INCLUDING FOUNDATIONS AND GRADE AREA SMOOTH, CUT AND CAP ALL EXISTING UTILITY LINES A MINIMUM OF 3 FEET BELOW PROPOSED FINISHED GRADE.

NOTE:  
EVERY CESSPOOL, SEPTIC TANK, AND SEEPAGE PIT WITHIN THE CONSTRUCTION LIMITS NOT INTENDED FOR FUTURE USE SHALL HAVE THE SEWAGE REMOVED THEREFROM AND BE COMPLETELY FILLED WITH EARTH, SAND, GRAVEL, CONCRETE OR OTHER APPROVED MATERIAL. PRIOR TO FILLING, THE BOTTOM OF SUCH STRUCTURES SHALL BE PERFORATED OR BROKEN TO PREVENT THE ENTRAPMENT OF WATER. CONDUITS CONNECTING TO THE STRUCTURE SHALL BE ADEQUATELY SEALED, THE TOP COVER OR ARCH OVER THE STRUCTURE SHALL BE REMOVED, AND THE SIDE WALLS SHALL BE REMOVED A MINIMUM OF 3 FEET BELOW PROPOSED FINISH GRADE. THE FILLING SHALL NOT EXTEND ABOVE THE LEVEL OF ANY OUTLET PIPE UNTIL INSPECTION HAS BEEN CALLED AND THE CESSPOOL, SEPTIC TANK OR SEEPAGE PIT HAS BEEN INSPECTED. AFTER SUCH INSPECTION, THE CESSPOOL, SEPTIC TANK OR SEEPAGE PIT SHALL BE FILLED TO THE LEVEL OF THE TOP OF THE GROUND AND TO THE SATISFACTION OF THE ENGINEER.

EVERY WATER LINE, RISER, OR HYDRANT WITHIN THE CONSTRUCTION LIMITS NOT INTENDED FOR FUTURE USE SHALL BE REMOVED TO A POINT OF DISCONNECTION WHICH WILL ASSURE A TIGHT SEAL WITH NO POSSIBILITY OF LEAKAGE AND TO THE SATISFACTION OF THE ENGINEER.

ALL FACILITIES, WHETHER THEY BE SEWER, WATER, OR STORM DRAIN INTENDED FOR FUTURE USE SHALL BE PROTECTED IN PLACE AND ANY CONFLICT BETWEEN SUCH FACILITIES AND THE ROADWAY CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

1/2 0 1 2  
3 inches on original drawing

PRELIMINARY

NOT FOR CONSTRUCTION

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PORTOLA PARKWAY	
STA. 8+44.12 TO 13+00.00	
DATE: 1/15/89	PREPARED UNDER: [Signature]
REVISIONS: [List]	SUPERVISOR: [Signature]
DESIGNED: [Signature]	SCALE: [List]
DRAWN: [Signature]	CHECKED: [Signature]
SHEET 57 OF 57	

DR. 20 (13847)

JAN. 108 1/2 2005

# BENCHMARK:

TOP OF CURB SOUTH SIDE OF MEDIAN EL TORO ROAD  
474+10.00 N 744 00.00 M 1716 ADJ. ELEV. 474.10

## CONSTRUCTION NOTES

1. CONSTRUCT A.C. OVER A.B. PER SECTION, SHT. NO. 1.
2. CONSTRUCT A.C. DIKE PER O.C.E.M.A. STD. NO. 201.
3. CONSTRUCT A.C. OVERSIDE DRAIN PER CALTRANS STD. NO. 237-B.
4. INSTALL 4" X 14" RECTANGULAR CAST IRON PIPE PER ALUMINUM FOUNDRY NO. A-470 OR APPROVED EQUAL.
5. INSTALL TYPE V INLET PER O.C.E.M.A. STD. NO. 105.
6. SAWCUT & REMOVE EXISTING A.C. PAVEMENT, CURB & CUTTER & SIDEWALK.
7. REMOVE EXISTING DRIVEWAY DEPRESSION & REPLACE WITH TYPE A-2 CURB & CUTTER PER O.C.E.M.A. NO. 2011 P.W.T. TO MATCH EXIST.
8. REMOVE MEDIAN ISLAND.
9. PAINT 4" DASHED YELLOW STRIPE (7" STRIPE, 17" GAP).
10. PAINT 4" SOLID WHITE STRIPE.
11. PAINT 4" DASHED WHITE STRIPE.
12. PAINT 12" SOLID WHITE STRIPE.
13. PAINT 4" SOLID DOUBLE YELLOW STRIPE.
14. PAINT 8" SOLID WHITE STRIPE.
15. PAINT STENCIL ARROW.
16. PAINT STENCIL "STOP".
17. PAINT STENCIL "STOP AHEAD".
18. SANDEBLAST EXISTING STRIPING.
19. INSTALL W10 (RT) INTERSECTION SIGN.
20. INSTALL W10 (LT) INTERSECTION SIGN.
21. INSTALL W17 "STOP AHEAD" SIGN.
22. INSTALL R1 "STOP" SIGN.
23. INSTALL R10 (LT) "ONE WAY" SIGN.
24. INSTALL TYPE "K" REFLECTOR, R10 (RT) "ONE WAY" SIGN AND NOSE MARKING PER DETAIL, SHT. NO. 6 OF O.C.E.M.A. STD. NO. 409.
25. INSTALL TYPE "K" REFLECTOR AND NOSE MARKING PER DETAIL, SHT. NO. 6 OF O.C.E.M.A. STD. NO. 409.
26. INSTALL STREET NAME SIGN PER O.C.E.M.A. STD. NO. 407.
27. INSTALL G7 STREET NAME SIGN "PORTOLA PARKWAY".
28. REMOVE AND SALVAGE EXISTING TRAFFIC SIGNS.
29. INSTALL W7 INTERSECTION SIGN.
30. INSTALL ACCESS RAMP PER O.C.E.M.A. STD. NO. 111.
31. REMOVE & RELOCATE EXISTING STREET LIGHT 150' ELY. (BY OTHERS).
32. INSTALL 2" A.C. OVER NATIVE.
33. INSTALL W17 "MERIDIAN LAKE SIGN".

DELETED PER REVISION  
SEE SHEET 71

CURVE		DATA		
NO.	Δ	R	L	T
A	168°41'24"	4.00'	11.78'	40.40'
B	0°29'54"	9200.00'	22.25'	11.12'
C	01°47'50"	9200.00'	100.07'	50.04'
D	180°00'00"	1.00'	9.14'	
E	86°42'08"	35.00'	52.96'	99.04'
F	91°51'49"	35.00'	56.12'	96.16'

DETAIL TO  
PAGE 11

FRONT FACE OF DIKE

NOTES:

1. PAINT MEDIAN NOSE WITH WHITE "SCOTCHLITE" BRAND REFLECTIVE LIQUID, CODE 210 OR EQUAL.
2. INSTALL FLEXIBLE VERTICAL TYPE K MARKER, RT, R10, OR TYPE N-1 ON TELESPAR POST AS INDICATED ON PLAN.
3. INSTALL YELLOW REFLECTIVE MARKING ON FRONT FACE OF MEDIAN CURB NOSE - 3 STRIPS (4" X 6") OF 3M #5571 HIGH INTENSITY GRADE SCOTCHLITE HIGH TACK ADHESIVE OR EQUAL.

DETAIL-RAISED MEDIAN MARKING

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
PORTOLA PARKWAY AT EL TORO ROAD INTERSECTION AND STRIPING PLAN			
DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF LAWRENCE R. WILSON, P.E. #19355	SHEET 7
REVISIONS		SCALE	DWG. NO.
DESIGNED	CHECKED	AS SHOWN	FEB. '82
DRAWN	CHECKED		

DR. 20 (13847)

UHH JOB NO. 2065



# CONSTRUCTION NOTES

1. CONSTRUCT AC OVER AB PER SECTION SHEET US 2.1
2. CONSTRUCT AC SHOULDER PER SECTION SHEET US 2
3. CONSTRUCT AC DIKE PER O.C.E.M.A. STD. US 201
4. INSTALL TYPE "B" CURB PER O.C.E.M.A. STD. US 201
5. CONSTRUCT CONCRETE SWALE PER DETAIL SHEET US 2
6. SAWCUT AND REMOVE EXISTING AC PAVEMENT, CURBS, GUTTERS AND SIDEWALKS.
7. REMOVE MEDIAN ISLAND LANDSCAPING CUT AND CAP EXISTING IRRIGATION LINES BELOW FINISHED GRADE.
8. PAINT 3" SOLID WHITE STRIPE
9. PAINT 3" DASHED WHITE STRIPE (7 STRIPE IN GAP)
10. PAINT 1" SOLID WHITE STRIPE
11. PAINT 2" SOLID DOUBLE YELLOW STRIPE
12. PAINT 2" SOLID WHITE STRIPE
13. PAINT STEEL CURB ARROW
14. SOLDERCAST EXISTING STRAPINGS
15. INSTALL WID (LT) INTERSECTION SIGL
16. INSTALL PID (LT) WIDE WAY SIGL
17. INSTALL PID (RT) WIDE WAY SIGL
18. INSTALL TYPE "M" REFLECTOR, US DOT, 500' AND LONG MARKING PER DETAIL SHEET US 7
19. INSTALL STREET NAME SIGL PER O.C.E.M.A. STD. US 301
20. INSTALL 67 STREET NAME SIGL, "PORTOLA PARKWAY"
21. REMOVE AND SALVAGE EXISTING TRAFFIC SIGLS
22. INSTALL PAV AND PAV 100' LOT ULTEPAH SIGL
23. INSTALL ACCESS RAMP PER O.C.E.M.A. STD. US 111
24. REMOVE AND RELOCATE EXISTING STREET LIGHT (BY OTHERS)
25. INSTALL AN APPROPRIATE BASE LEVEL WITH THE TOP OF THE CURB, APPLY 2" SOLID STRIP OUT BEFORE AND AFTER INSTALLATION.
26. CONSTRUCT CONCRETE CURB TYPE "M" PER O.C.E.M.A. STD. US 201
27. CONSTRUCT CONCRETE MEDIAN PAVING PER O.C.E.M.A. STD. US 201
28. CONSTRUCT 1" RCC SIDEWALK PER O.C.E.M.A. STD. US 205 AND DETAIL ON SHEET 2.1
29. CONSTRUCT 1" RCC SIDEWALK PER O.C.E.M.A. STD. US 205
30. INSTALL PIS "RIGHT LAKE MUST TURN RIGHT" SIGL
31. PAINT 2" DASHED WHITE STRIPE
32. EXISTING 2" DASHED WHITE STRIPE, REMOVE AND REPAINT AS NECESSARY TO CONFORM TO PROPOSED STRIPING.
33. REMOVE LANDSCAPING AS NECESSARY TO BLEND WITH EXISTING
34. INSTALL W94 MARKING LANE SIGL

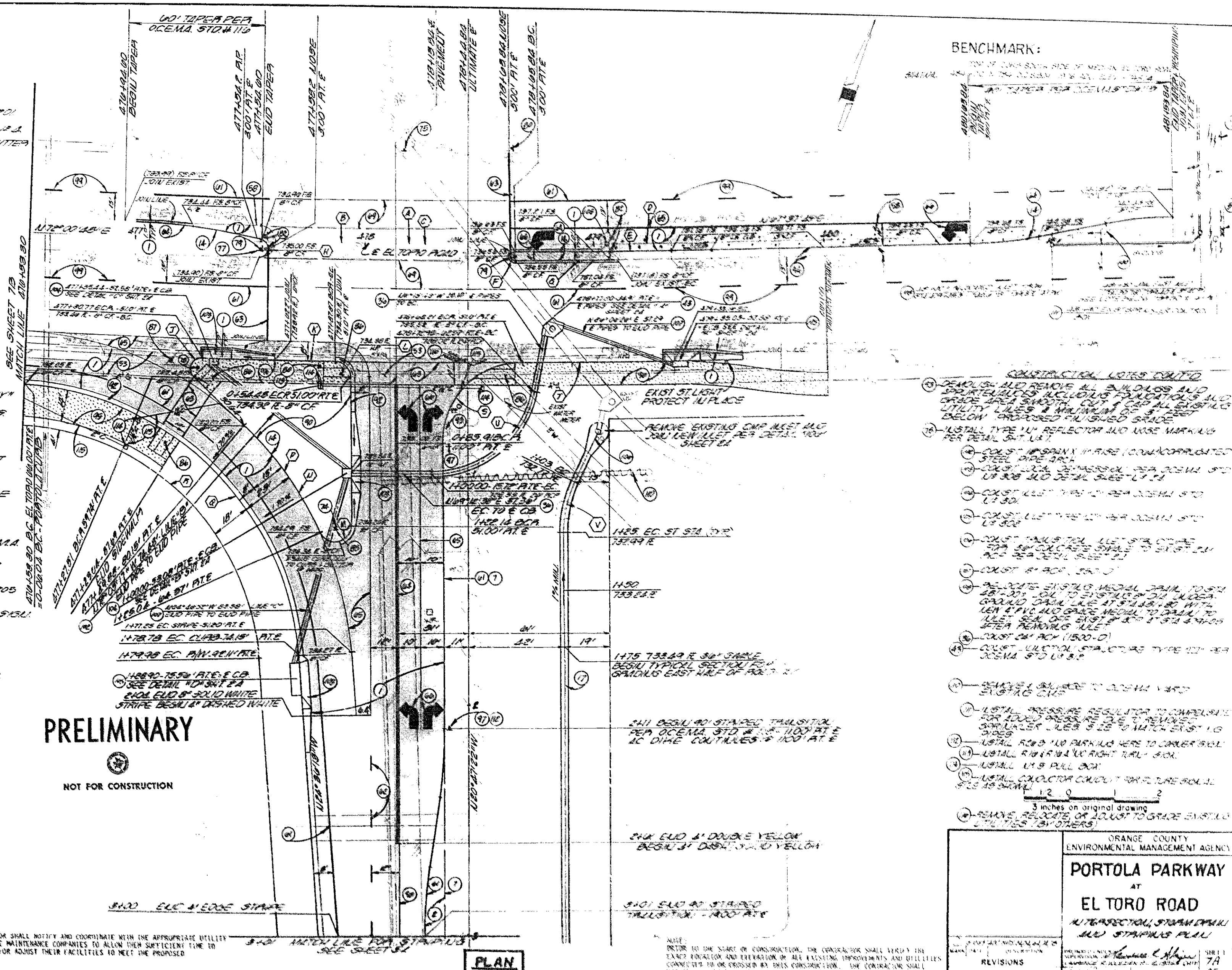
CURVE DATA				
STATION	PI	LC	TA	TS
1+00.00	1+00.00	255.86	125.34	125.34
2+00.00	2+00.00	155.53	62.78	62.78
3+00.00	3+00.00	51.00	15.50	15.50
4+00.00	4+00.00	88.92	24.14	24.14
5+00.00	5+00.00	67.58	33.64	33.64
6+00.00	6+00.00	4.00	0.00	0.00
7+00.00	7+00.00	8.82	21.83	21.83
8+00.00	8+00.00	11.75	11.75	11.75
9+00.00	9+00.00	12.08	13.12	13.12
10+00.00	10+00.00	58.01	27.01	27.01
11+00.00	11+00.00	10.87	1.88	1.88
12+00.00	12+00.00	19.00	30.25	30.25
13+00.00	13+00.00	57.21	28.90	28.90
14+00.00	14+00.00	23.50	13.84	13.84
15+00.00	15+00.00	12.00	13.12	13.12
16+00.00	16+00.00	158.08	77.03	77.03
17+00.00	17+00.00	54.72	34.79	34.79
18+00.00	18+00.00	5.96	0.99	0.99
19+00.00	19+00.00	28.00	13.84	13.84
20+00.00	20+00.00	21.81	11.08	11.08

\* TOTAL CURVE DATA

PRELIMINARY

NOT FOR CONSTRUCTION

NOTE: THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE APPROPRIATE UTILITY AND LANDSCAPE MAINTENANCE COMPANIES TO ALLOW THEM SUFFICIENT TIME TO RELOCATE AND/OR ADJUST THEIR FACILITIES TO MEET THE PROPOSED CONSTRUCTION.

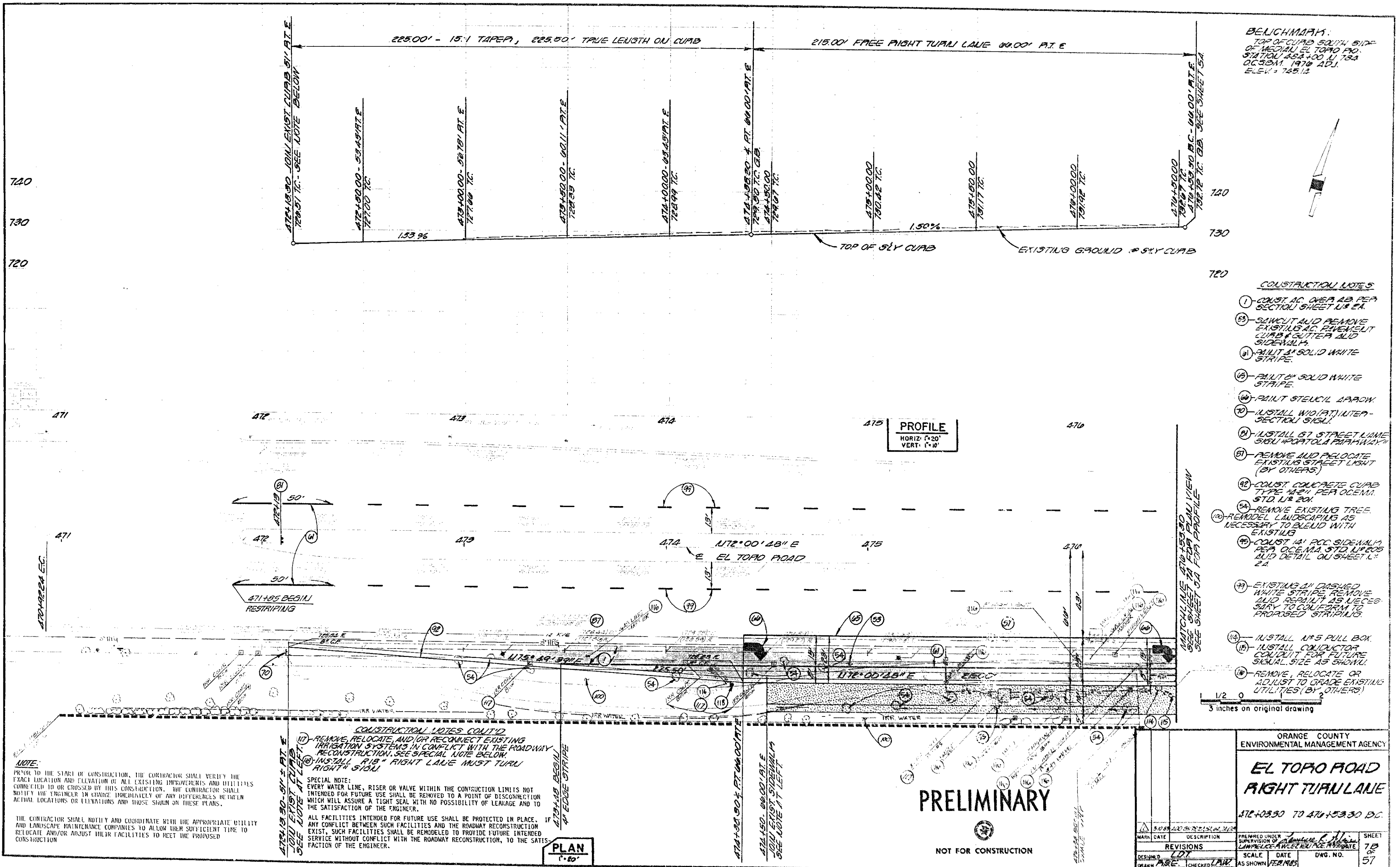


BENCHMARK:

- ## CONSTRUCTION NOTES CONT'D
35. DEMOLISH AND REMOVE ALL BUILDINGS AND SPRINKLER SYSTEMS, FOUNDATIONS AND GRADE AREA SURROUNDING EXISTING UTILITY LINES & MAINTAINING 5' SET BELOW PROPOSED FINISHED GRADE.
  36. INSTALL TYPE "M" REFLECTOR AND LONG MARKING PER DETAIL SHEET US 7
  37. CONSTRUCT ASPHALT PAVEMENT, COMPACTED STEEL PIPE ARCH
  38. CONSTRUCT 2" CONCRETE PER O.C.E.M.A. STD. US 201
  39. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  40. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  41. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  42. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  43. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  44. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  45. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  46. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  47. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  48. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  49. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  50. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  51. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  52. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  53. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  54. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  55. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  56. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  57. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  58. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  59. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  60. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  61. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  62. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  63. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  64. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  65. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  66. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  67. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  68. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  69. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  70. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  71. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  72. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  73. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  74. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  75. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  76. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  77. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  78. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  79. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  80. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  81. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  82. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  83. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  84. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  85. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  86. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  87. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  88. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  89. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  90. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  91. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  92. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  93. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  94. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  95. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  96. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  97. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  98. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  99. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201
  100. CONSTRUCT 1" CONCRETE PER O.C.E.M.A. STD. US 201

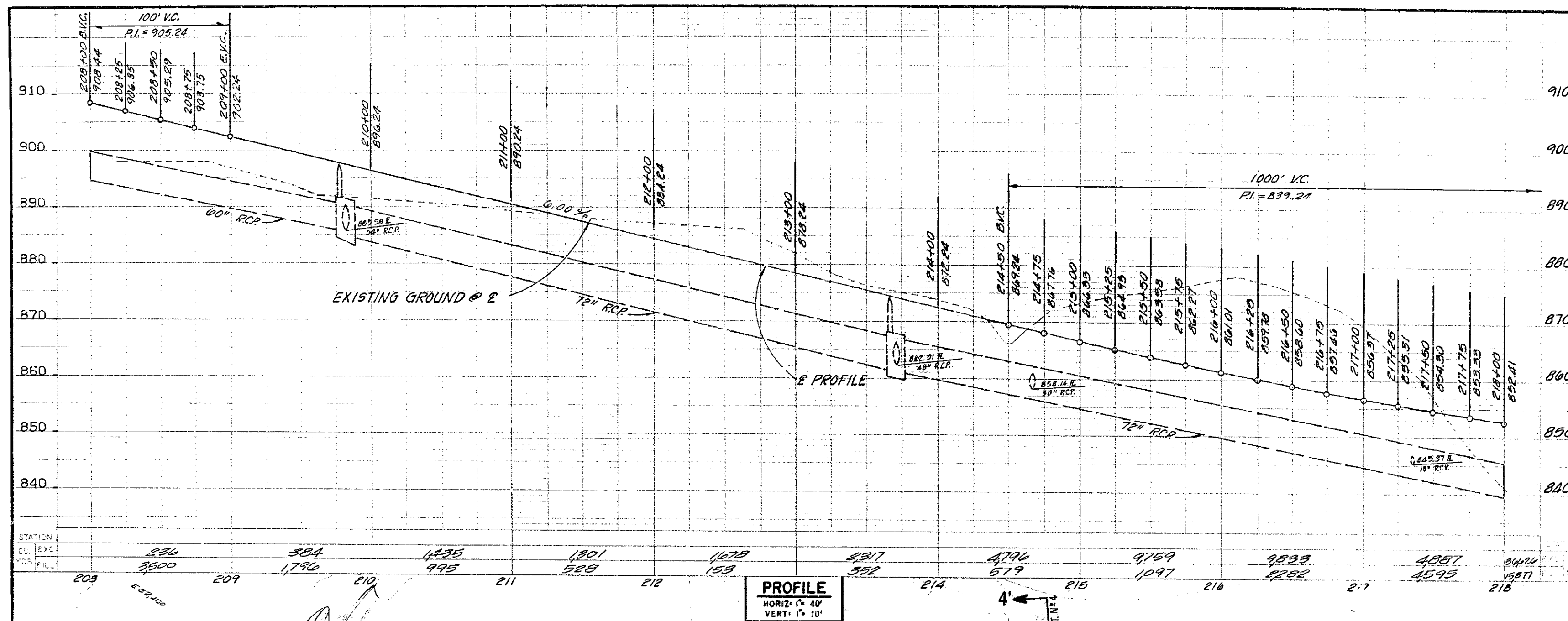
ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PORTOLA PARKWAY AT EL TORO ROAD	
INTERSECTION, STATIONING AND STRIPING PLAN	
DATE: 10/1/87	SCALE: 1" = 20'
DESIGNED BY: [Signature]	CHECKED BY: [Signature]
APPROVED BY: [Signature]	DATE: 10/1/87
SHEET 7A OF 97	

DR. 20 (13847)



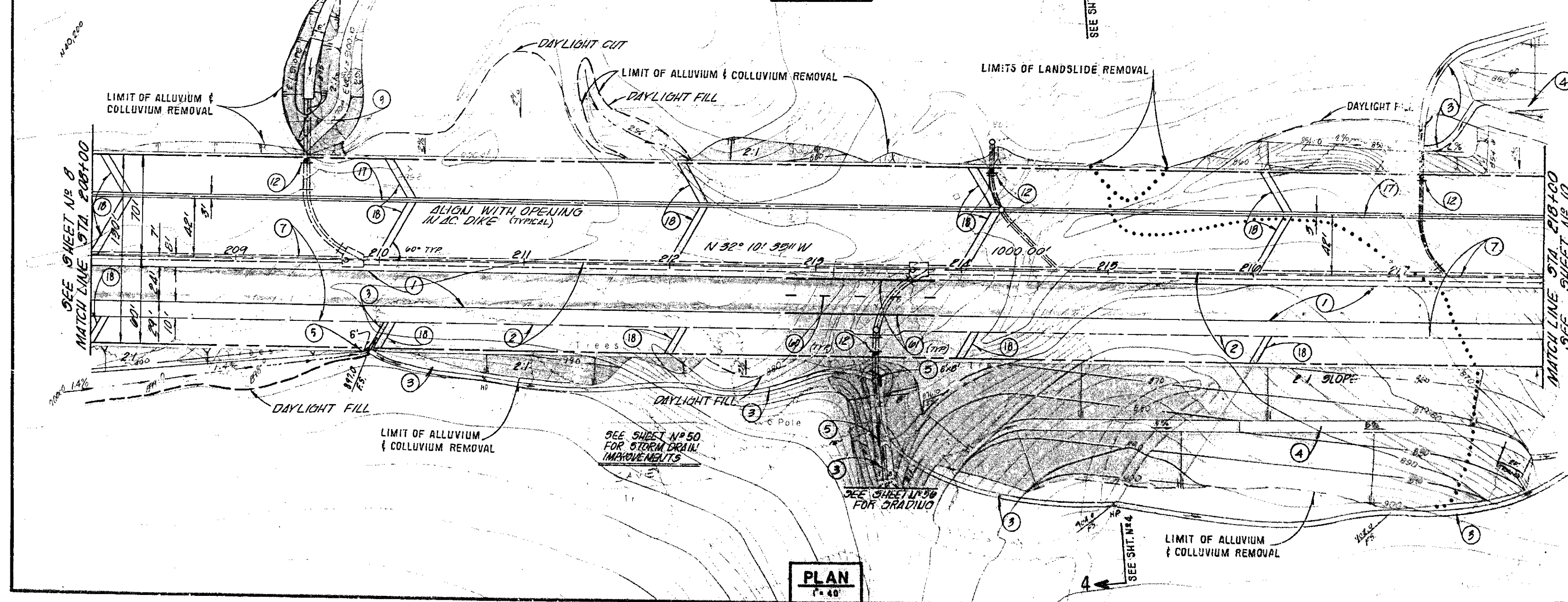




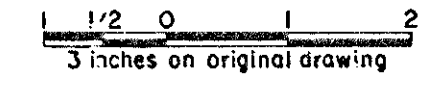


**BENCHMARK:** EL. 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL  
 TRANSMISSION TOWER MARKED 2014 ON THE S.W. LEG CONC.  
 POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE BOARD.  
 DES. 344-14-77.

- CONSTRUCTION NOTES**
- 1 - CONST. AC OVER A.B. PER SECTION SHEET NO 2
  - 2 - CONST. AC SHOULDER PER SECTION SHEET NO 2
  - 3 - CONST. DOWNDRAIN PER OCMA STD. NO 321
  - 4 - CONST. MODIFIED TERRACE DRAIN PER DETAIL SHEET N° 2
  - 5 - CONST. SPLASH WALL PER DETAIL SHT. N° 4
  - 6 - CONST. AC DIKE PER OCMA STD. N° 201
  - 7 - CONST. COMPACTED EARTH DIKE
  - 8 - PAINT 4" DASHED YELLOW STRIPE (7' STRIPE 17' OAP)
  - 9 - PAINT 4" SOLID WHITE STRIPE
  - 10 - CONST. 3' CONCRETE SWALE PER DET. SHT. NO. 4
  - 11 - CONST. 1.0' HIGH 5.0' WIDE EARTH BERM PER DETAIL SHT. N° 4
  - 12 - INSTALL CULVERT MARKER PER O.C.E.M.A. STD. N° 402.



**NOTE:** LIMITS OF ALLUVIUM, COLLUVIUM, AND LANDSLIDE REMOVAL ARE SHOWN FOR BID PURPOSES ONLY. ACTUAL LIMITS TO BE VERIFIED IN THE FIELD.

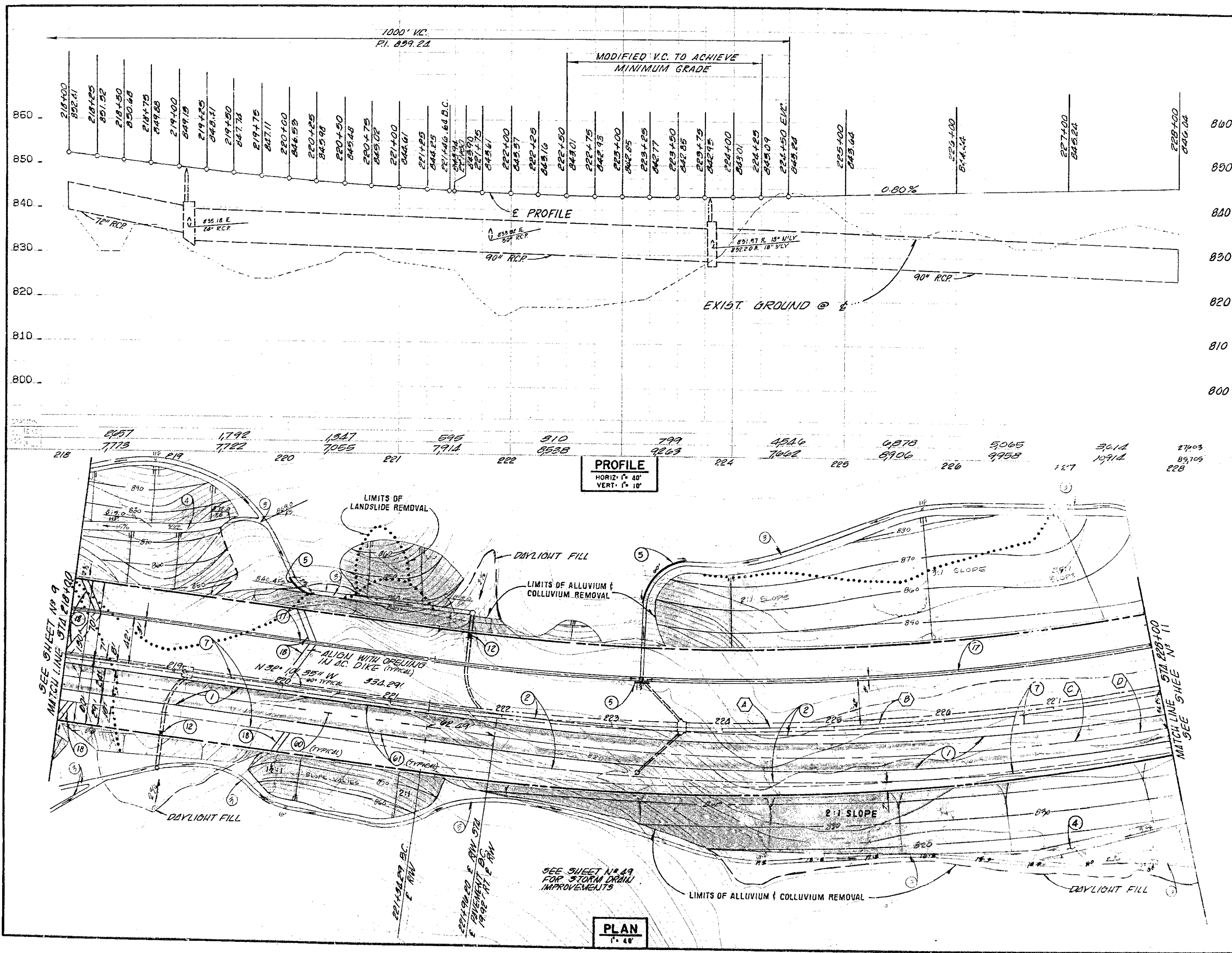


ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>PORTOLA PARKWAY</b>	
STA. 208+00 TO 218+00	
MARK DATE	DESCRIPTION
REVISIONS	
DESIGNED L.D.T.	PREPARED UNDER SUPERVISION OF LAWRENCE R. WLEZIEH R.C.E. 1985 DATE
DRAWN R.S.E.	CHECKED LEW AS SHOWN JAN '82
SCALE	DATE
DWG. NO.	57

DR. 20 (13847)

J.H.H. JOB NO. 201





**BENCHMARK:** EL. 802.669 1976 ADJ.  
 0.8 MI. E. OF MARQUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADDLE BOARD. DES. 11/14-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	18°09'47"	2100.00'	642.57'	335.07'
(B)	44°37'29"	2100.00'	1712.95'	908.52'
(C)	17°11'10"	2030.11'	611.92'	308.29'
(D)	38°23'00"	2030.11'	1360.70'	710.11'
* TOTAL CURVE DATA				

- CONSTRUCTION NOTES**
- CONST. A.C. OVER A.B. PER SECTION SHEET NO. 2
  - CONST. A.C. SHOULDER PER SECTION SHEET NO. 2
  - CONST. DRAINAGE PER OCMA STD. NO. 321
  - CONST. MODIFIED TERRACE DRAIN PER DETAIL SHEET NO. 2
  - CONST. SPLASHWALL PER DETAIL SHEET NO. 4
  - CONST. A.C. DIKE PER OCMA STD. NO. 201
  - PAINT 1" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
  - PAINT 1" SOLID WHITE STRIPE
  - CONST. 3" CONCRETE SWALE PER DETAIL SHEET NO. 2
  - CONST. 10' HIGH X 5.0' WIDE EARTH BERM PER DETAIL SHEET NO. 2
  - INSTALL CULVERT MARKER PER OCMA STD. NO. 402

NOTE: LIMITS OF ALLUVIUM, COLLUVIUM, AND LANDSLIDE REMOVAL ARE SHOWN FOR BID PURPOSES ONLY. ACTUAL LIMITS TO BE VERIFIED IN THE FIELD.

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		PORTOLA PARKWAY STA. 218+00 TO 228+00	
MARK DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	SHEET 10 OF 57
DESIGNED L.D.T.		SCALE AS SHOWN	DATE JAN. '82
DRAWN R.S.E.		CHECKED L.R.W.	DWG. NO. 57

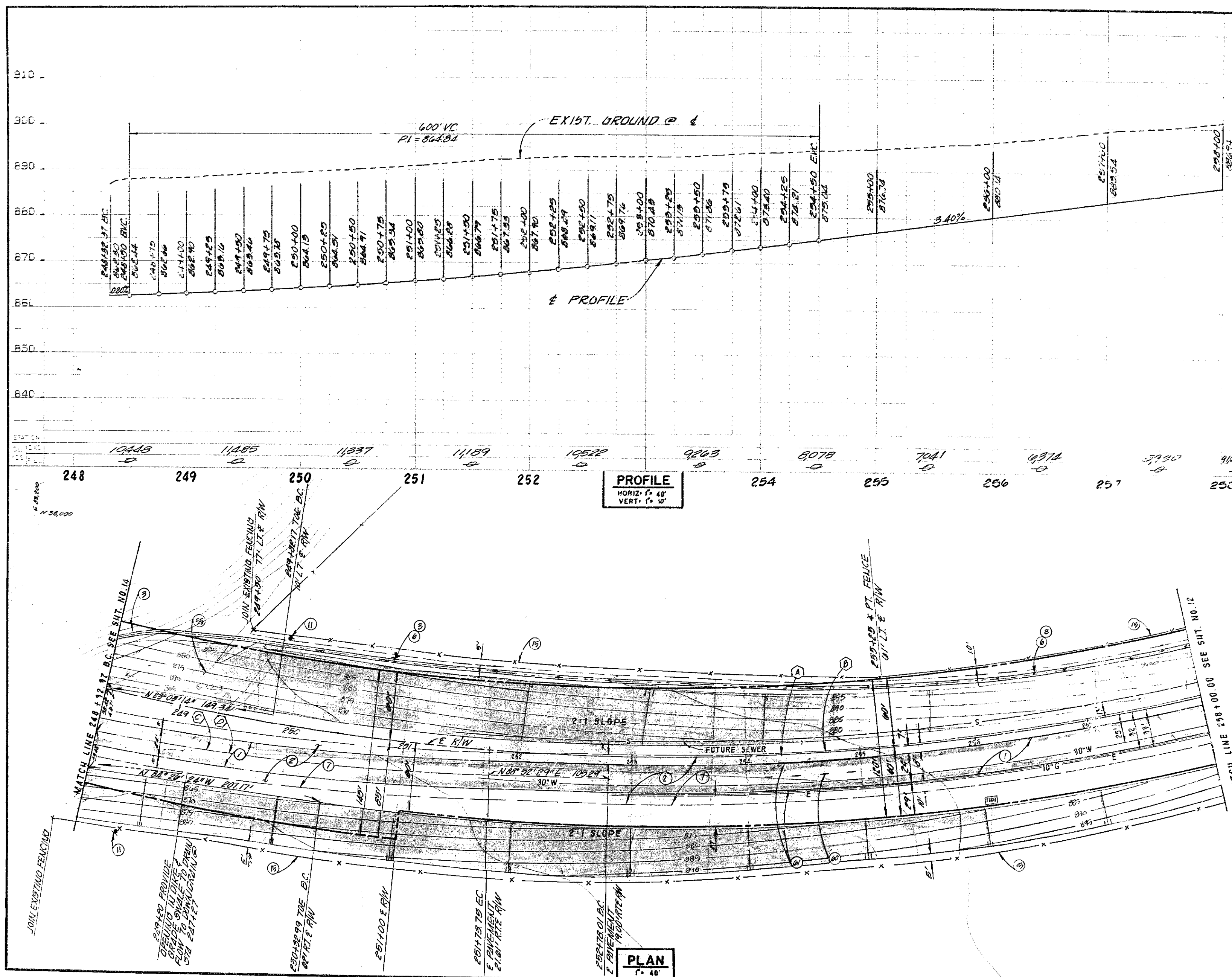
DR. 20 (13847)

J.R.N. JOB NO. 2065









**BENCHMARK:** EL. 802.669 1976 ADJ  
 0.8' MI. E OF MARGUERITE 300' N. OF O'NEILL RD BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADDLE BOARD, DES. 3/4" x 1 1/4" x 7/8"

CURVE DATA				
NO.	Δ	R	L	T
(A)	26°24'02"	2100.00	907.63	492.50
(B)	08°04'53"	2100.00	2496.30	1378.03
(C)	9°27'31"	2100.00	364.67	179.79
(D)	12°09'31"	2100.00	445.83	221.71

\* TOTAL CURVE DATA

**CONSTRUCTION NOTES**

- (1) - CONSTRUCT AC OVER AB. PER SECTION SHEET NO. 2
- (2) - CONSTRUCT AC SHOULDER PER SECTION SHEET NO. 2
- (3) - CONSTRUCT DOWN DRAIN PER OCEMA STD. NO. 321
- (4) - CONSTRUCT 10' WIDE BROW DITCH PER DETAIL SHEET NO. 2
- (5) - CONSTRUCT AC DIKE PER OCEMA STD. NO. 201  
 COAST 4" CONCRETE SHALE PER DETAIL SHT. 4
- (6) - INSTALL TYPE "M" MARKER WITH RED REFLECTORS
- (7) - REMOVE EXISTING FENCING
- (8) - INSTALL 5 STRAND BARBEDWIRE FENCE PER CAL TRANS STD. NO. 478-B
- (9) - PAINT 4" DASHED YELLOW STRIPE (7" STRIPE, 17" GAP)
- (10) - PAINT 4" SOLID WHITE STRIPE

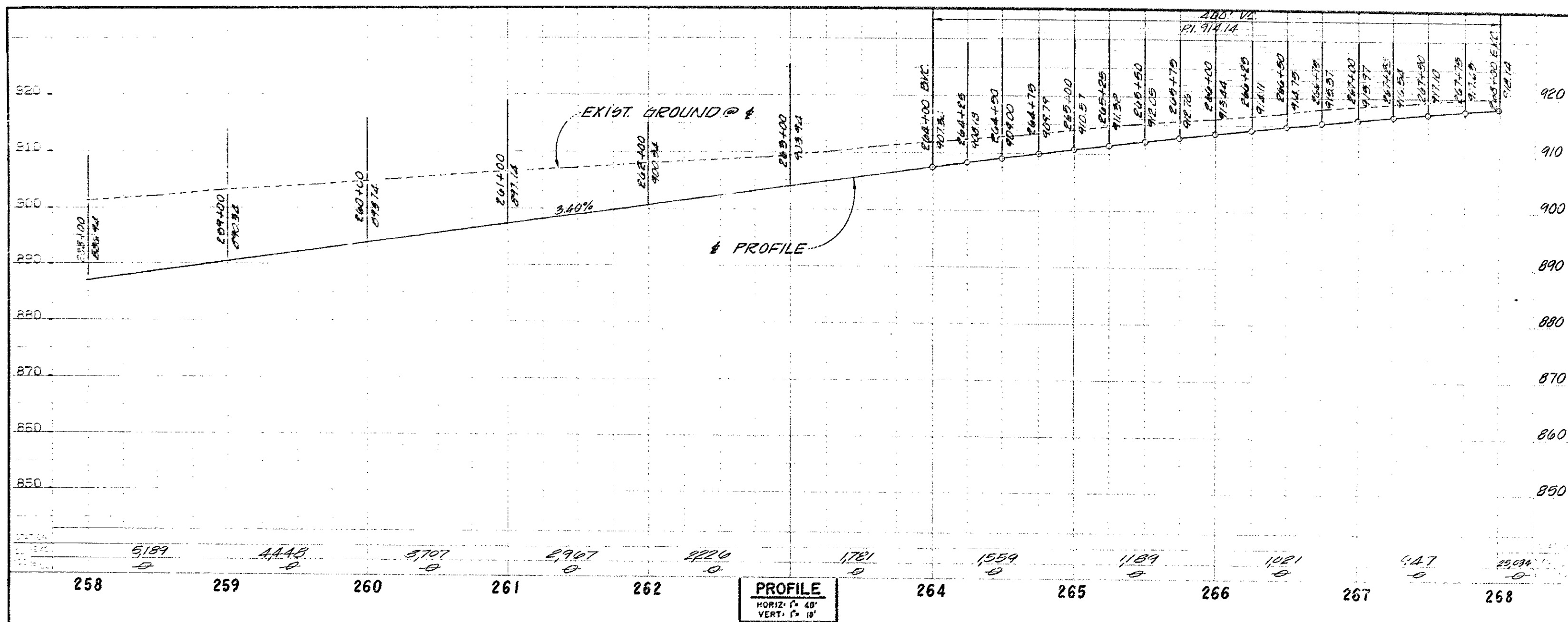
1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>ALICIA PARKWAY</b>	
STA 248+32.37 TO 258+00	
MARK	DATE
DESCRIPTION	
PREPARED UNDER	
SUPERVISION OF	
LAWRENCE R. WILKIN, R.C.E. #555 DATE	
DESIGNED	SCALE
DATE	DWG. NO.
CHECKED	AS SHOWN
DATE	JAN. '82

DR. 20 (13847)

J.H.H. JOB NO. 201





BENCHMARK: EL. 802.669 1976 ADJ.

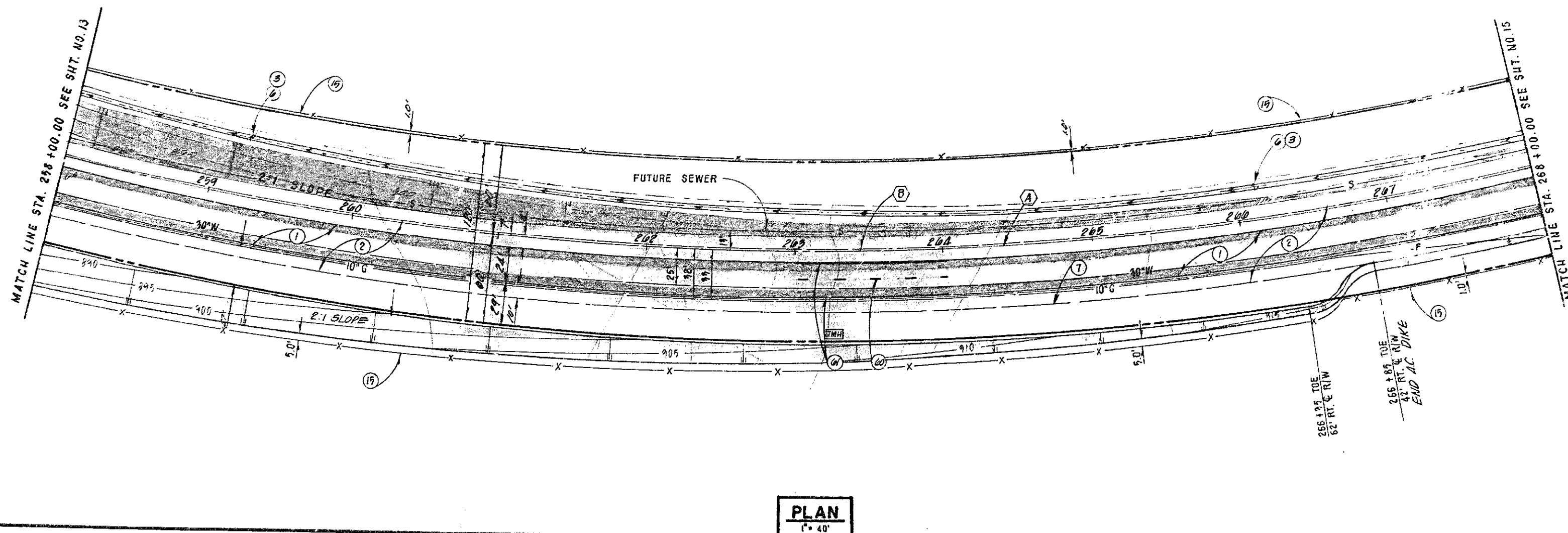
0.8' MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL TRANSMISSION TOWER MARKED 3014 ON THE S.W. LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S OF STEEL PADDLE BOARD. DES. 9-44-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	27°17'01"	2100.00	1000.00	509.67
(B)	65°04'53"	2100.00	2495.30	1418.63

\* TOTAL CURVE DATA

**CONSTRUCTION NOTES**

- (1) CONSTRUCT AC OVER AB PER SECTION SHEET NO. 2
- (2) CONSTRUCT AC SHOULDER PER SECTION SHEET NO. 2
- (3) CONSTRUCT DRAIN DRAIN PER OCMA STD. 11-201
- (4) CONSTRUCT 10' WIDE BROW DITCH PER DETAIL SHEET NO. 2
- (5) CONSTRUCT AC DIKE PER OCMA STD. 11-201
- (6) INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRANS. STD. 11-201
- (7) PAINT 2" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
- (8) PAINT 4" SOLID WHITE STRIPE

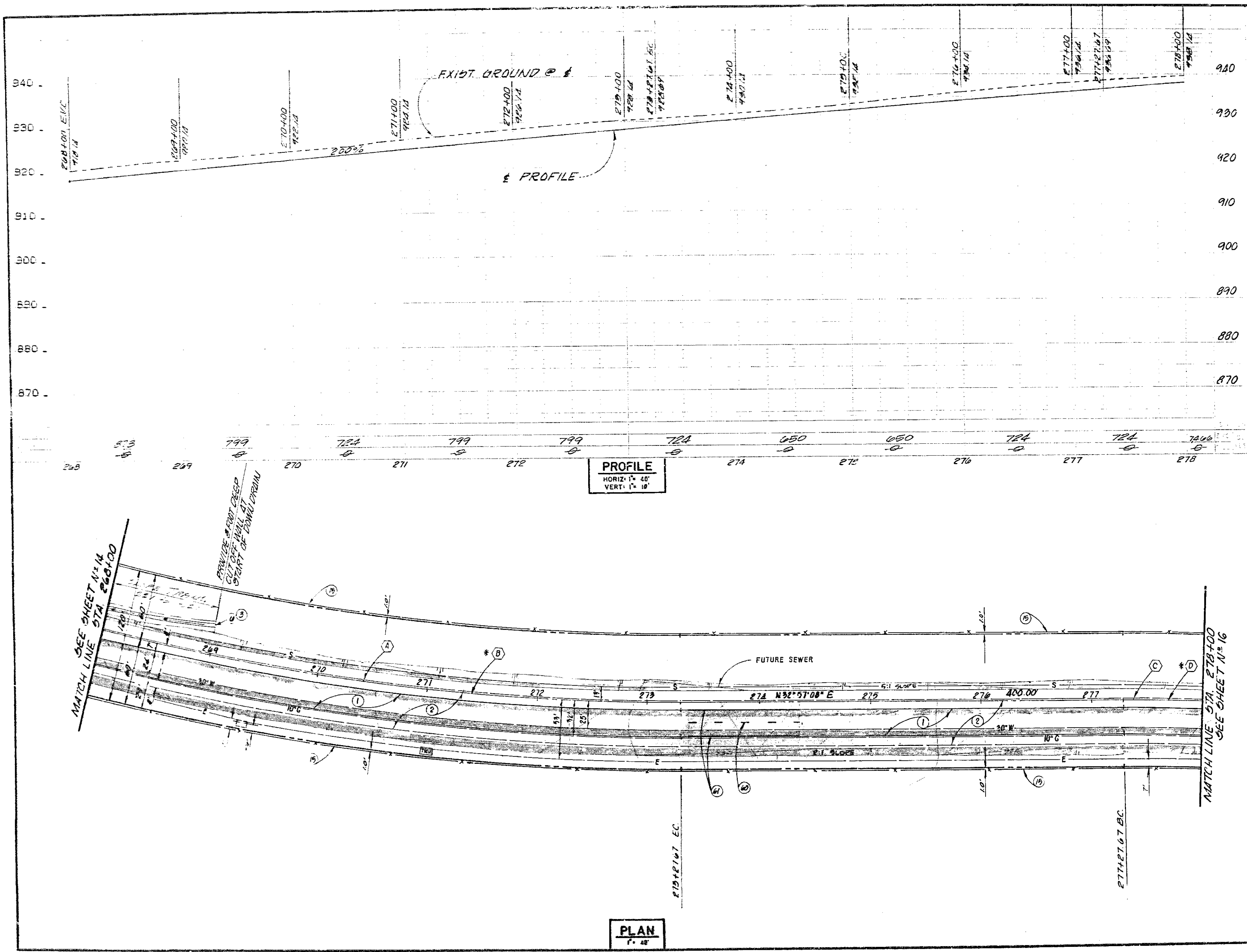


1 1/2 0 1 2  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>ALICIA PARKWAY</b>	
STA. 258+00 TO 268+00	
MARK DATE	DESCRIPTION
DESIGNED	REVISIONS
DRAWN	CHECKED
SCALE	DATE
AS SHOWN	JAN. 88
PREPARED UNDER SUPERVISION OF <i>Lawrence R. Wleziar</i> P.E. 1955	
SHEET 12 OF 57	

DR. 20 (13847)

J.H.N. JOB NO. 2065

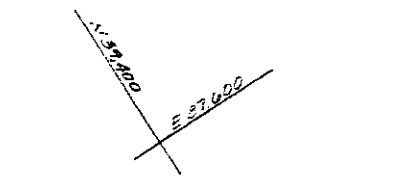


CURVE DATA				
NO.	Δ	R	L	T
1	11° 29' 28"	2100.00	527.67	245.23
2	58° 04' 53"	2100.00	2495.30	1218.63
3	1° 58' 24"	2100.00	72.33	36.17
4	62° 43' 31"	2100.00	2299.00	1279.97

\* TOTAL CURVE DATA

**CONSTRUCTION NOTES**

- 1- CONSTRUCT AC OVER AB PER SECTION SHEET N° 2
- 2- CONSTRUCT AC SHOULDER PER SECTION SHEET N° 2
- 3- CONSTRUCT DRAIN DRAIN PER OCMS, STD. 11-321
- 4- CONSTRUCT 10' WIDE BROWN DITCH PER DETAIL SHEET N° 2
- 5- INSTALL 5 STRAND BARBED WIRE FENCE PER CAL. TRO. 19-27D, UP 278+00
- 6- PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
- 7- PAINT 4" SOLID WHITE STRIPE



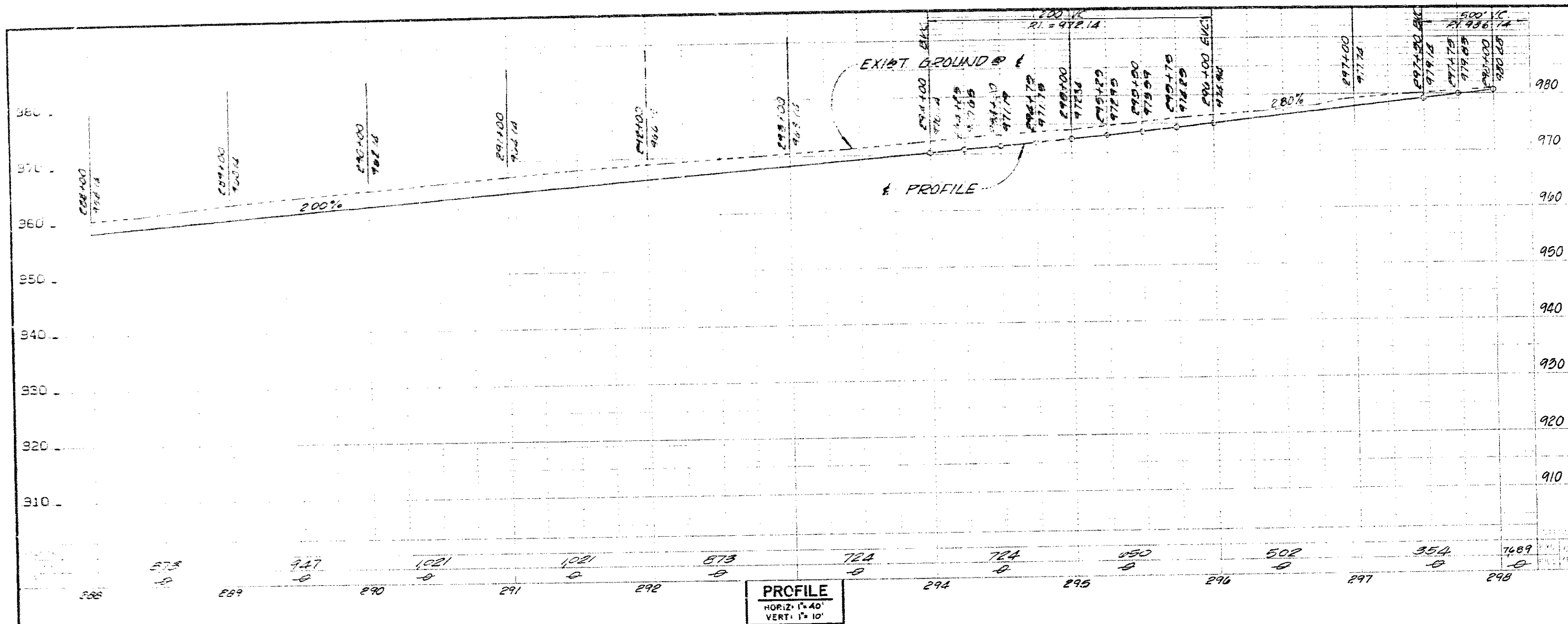
1" = 40'  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
ALICIA PARKWAY	
STA. 268+00 TO 278+00	
MARK DATE	DESCRIPTION
REVISIONS	
DESIGNED	CHECKED
DRAWN	AS SHOWN
PREPARED UNDER	SHEET
SUPERVISION OF	15
DATE	OF
SCALE	51
DATE	
OWG. NO.	

DR. 20 (13847) J.H.H. 008 NO. 2065







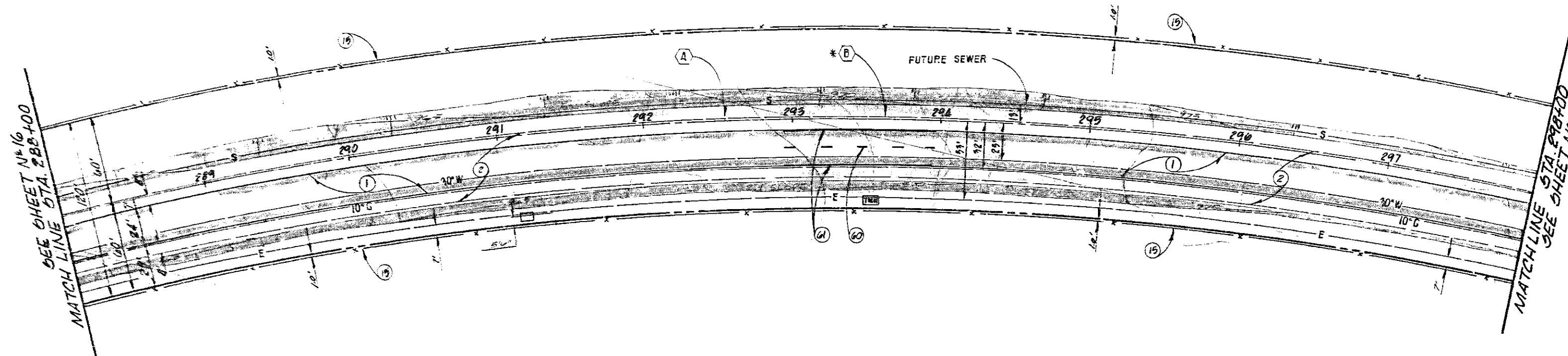
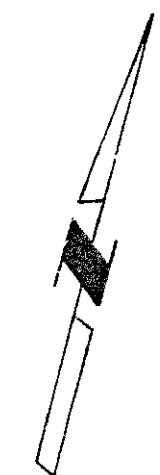
**BENCHMARK:** EL. 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADDLE BOARD. DES. 3/11/77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	27°11'01"	2100.00'	1000.00'	509.67'
(B)	52°42'31"	2100.00'	2299.00'	1279.97'

\* TOTAL CURVE DATA

**CONSTRUCTIONS NOTES**

- ①—CONSTRUCT A.C. OVER AB. PER SECTION SHEET N°2
- ②—CONSTRUCT A.C. SHOULDER PER SECTION SHEET N°2
- ③—INSTALL 5 STRAND BARBED WIRE FENCE  
PER CALTRANS STD. L/S 178-B
- ④—PAINT 4" DASHED YELLOW STRIPE  
(7' STRIPE, 17' GAP)
- ⑤—PAINT 6" SOLID WHITE STRIPE.

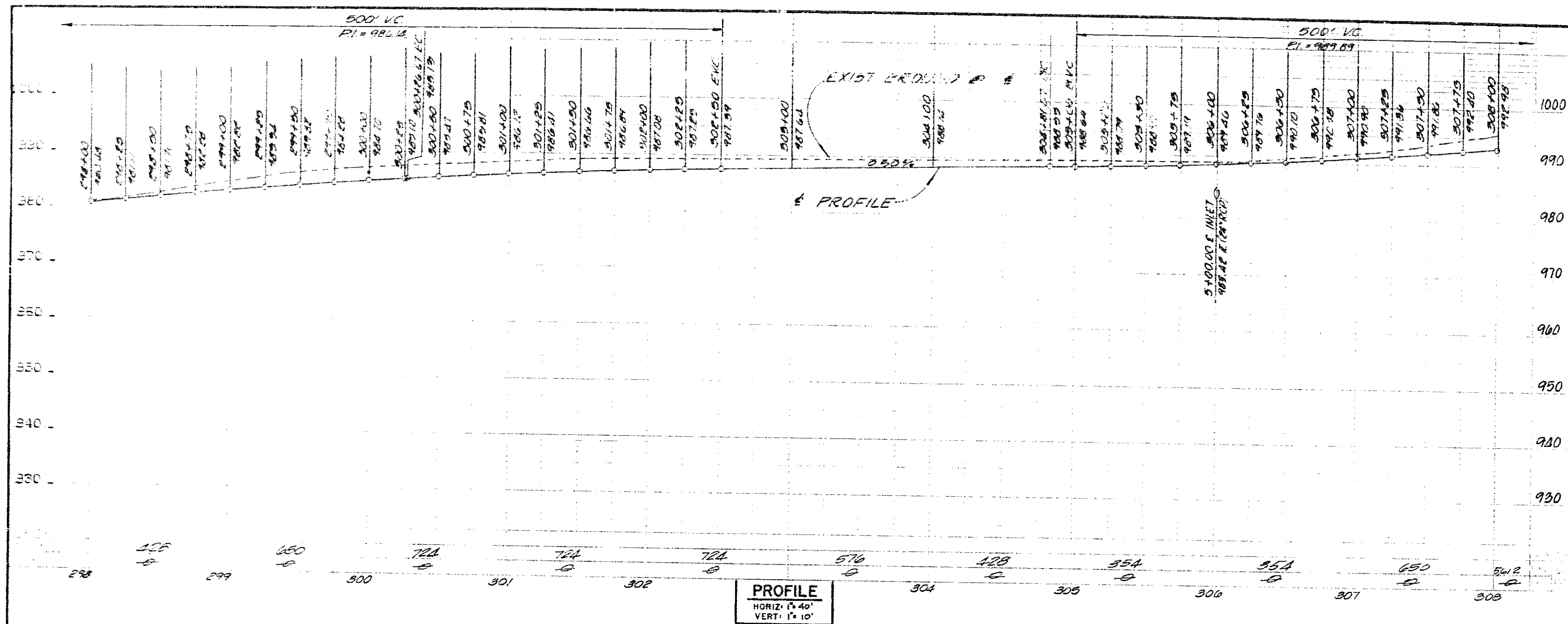


1 1/2 0 1 2  
 3 inches or original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		<b>ALICIA PARKWAY</b>		STA. 288+00 TO 298+00	
MARK DATE	DESCRIPTION	PREPARED UNDER	SUPERVISION OF	DATE	SHEET
REVISIONS		LAWRENCE R. WILKINSON R.C.E. 1/15/85		DATE	17
DESIGNED	L.D.T.	SCALE	DATE	DWG. NO.	51
DRAWN	R.S.E.	CHECKED	L.R.W.	AS SHOWN	JAN. '82

DR-20 (13247) J.H.H. 008 NO. 2065



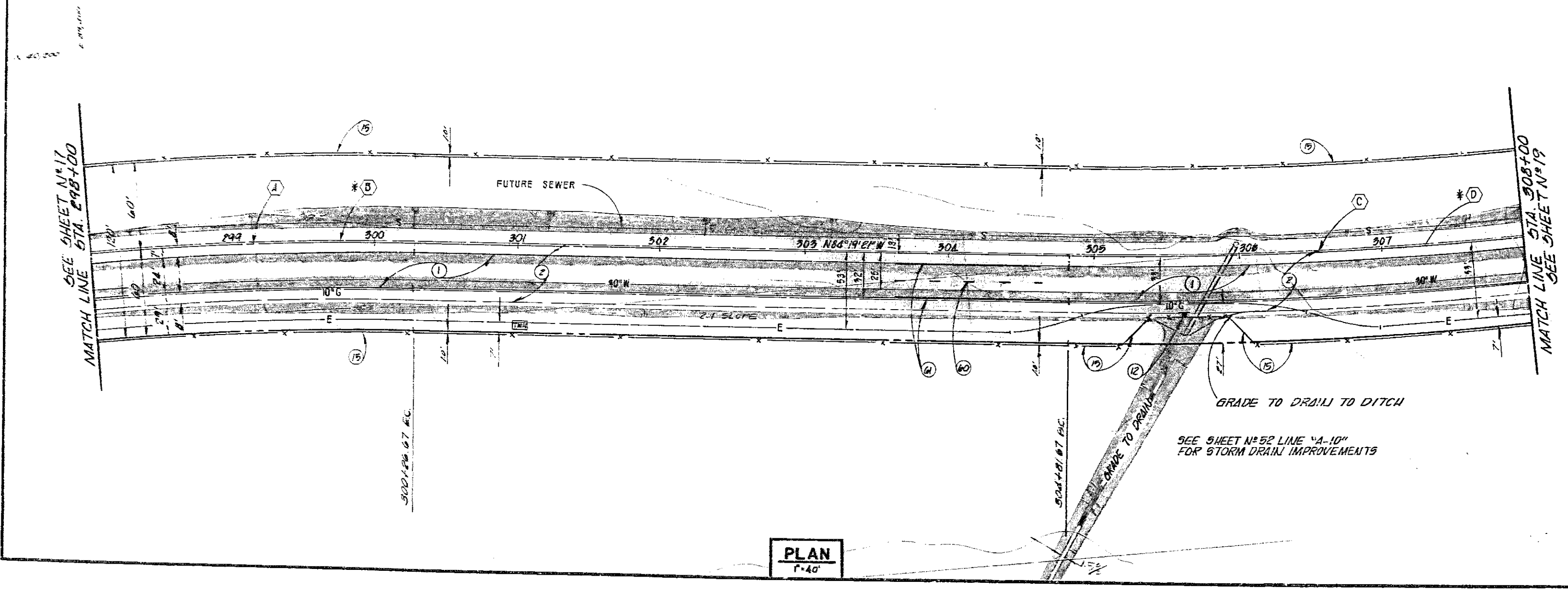


**BENCHMARK:** EL. 802.669 1976 ADJ.  
 0.8 MILE OF MARGUERITE 300' W. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC POST EXPOSED 1' ABOVE GROUND, 1' S OF STEEL  
 PADDLE BOARD, DES. 244-14-17.

CURVE DATA				
NO.	Δ	R	L	T
(A)	6°11'00"	2100.00	226.67	119.25
(B)	62°43'31"	2100.00	2299.00	1279.97
(C)	6°30'50"	2600.00	316.33	159.34
(D)	46°32'45"	2600.00	2274.70	1204.33

\* TOTAL CURVE DATA

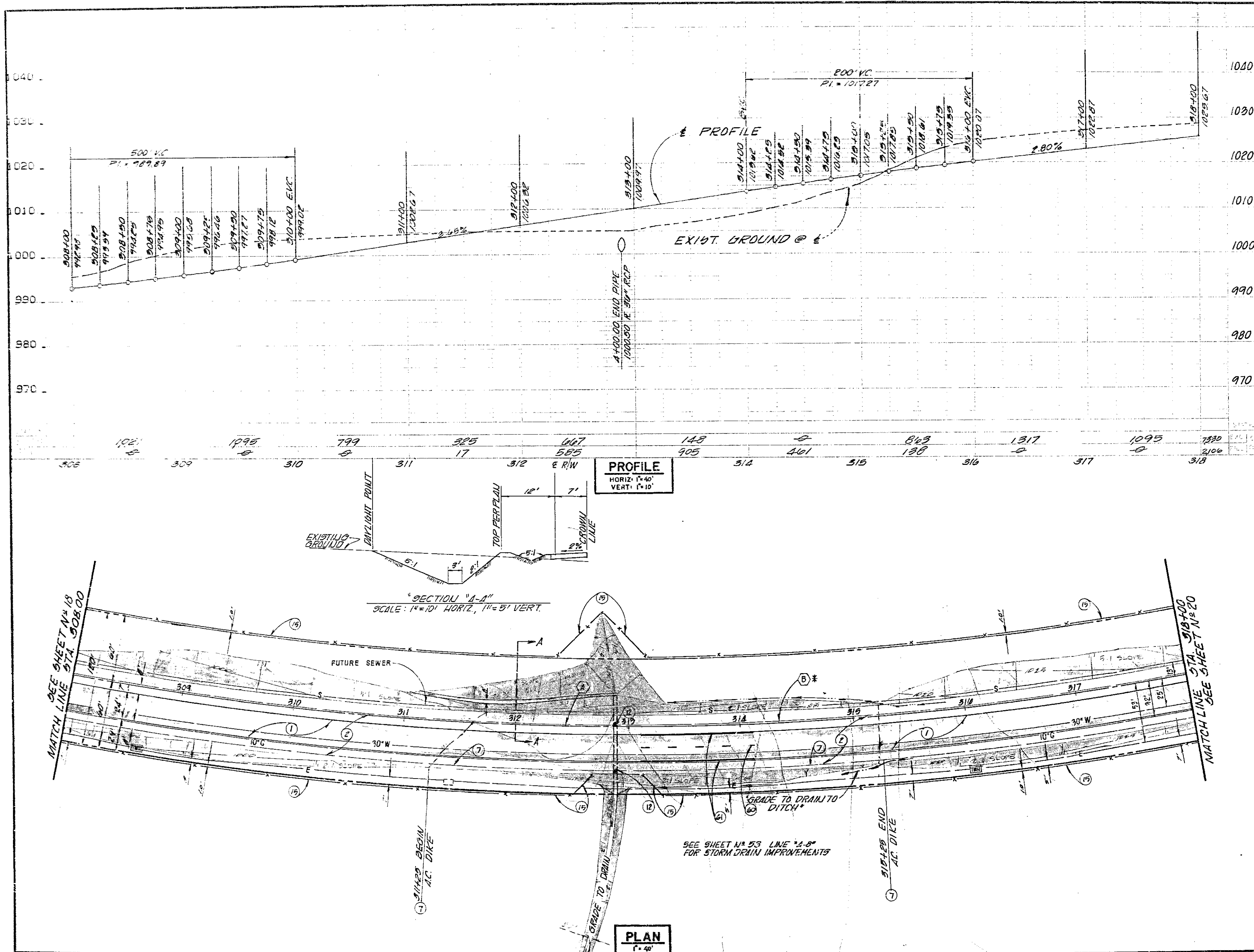
- CONSTRUCTION NOTES**
- (1) - CONSTRUCT AC OVER AB PER SECTION SHEET N°17
  - (2) - CONSTRUCT AC SHOULDER PER SECTION SHEET N°17
  - (15) - INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRAIL 812, N° 175-B
  - (16) - PAINT 4" DASHED YELLOW STRIPE (7" STRIPE, 17" GAP)
  - (17) - PAINT 2" SOLID WHITE STRIPE
  - (18) - INSTALL CULVERT MARKER PER DCEMA STD N° 402



1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		<b>ALICIA PARKWAY</b>		STA. 298+00 TO 308+00	
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF <i>Lawrence R. Wilk</i>	SHEET 13 OF 57	
REVISIONS			SCALE	DATE	DWG. NO.
DESIGNED	R.S.E.	CHECKED	LPW	JAN. '82	

DR. 20 (13847) J.H.H. 005 NO. 2065



**BENCHMARK:** EL = 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADDLE BOARD. DES. 9HH-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	20°27'34"	2800.00'	1000.00'	505.38'
(B)	46°32'48"	2800.00'	2274.70'	1204.33'

\* TOTAL CURVE DATA

# **CONSTRUCTION NOTES**

- (1) - CONSTRUCT AC OVER AB. PER SECTION SHEET N° 2
- (2) - CONSTRUCT AC SHOULDER PER SECTION SHEET N° 2
- (3) - CONSTRUCT AC DIKE. PER O.C.E.M.A. STD N° 201
- (4) - INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRANS STD N° 478-B
- (5) - INSTALL CULVERT MARKER PER O.C.E.M.A. STD N° 402
- (6) - PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
- (7) - PAINT 4" SOLID WHITE STRIPE

ORANGE COUNTY  
 ENVIRONMENTAL MANAGEMENT AGENCY

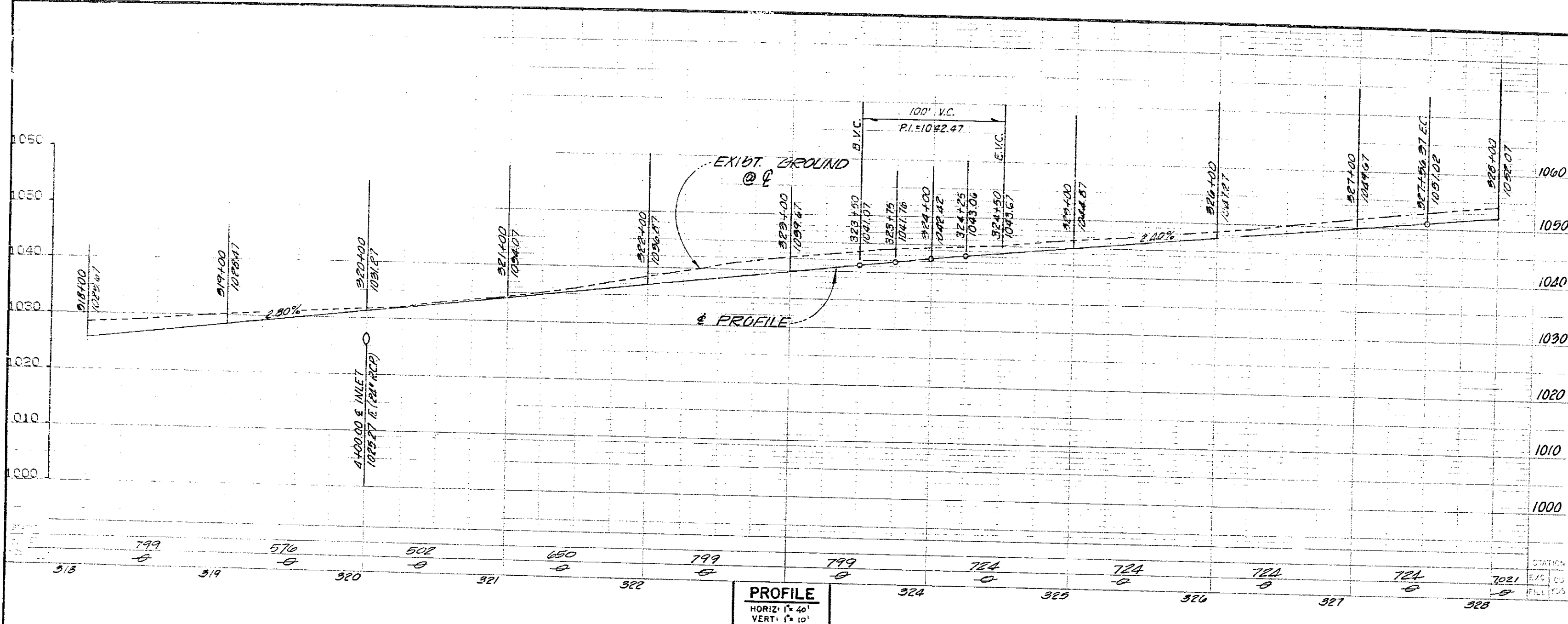
## **ALICIA PARKWAY**

STA. 308+00 TO 318+00

MARK	DATE	DESCRIPTION	PREPARED UNDER	SHEET
DESIGNED	L.D.T.	REVISIONS	SUPERVISION OF	19
DRAWN	A.L.L.	SCALE	LAWRENCE R. WILTZEN R.C.E. 19355	OF
CHECKED	LRW	DATE	DATE	57
		AS SHOWN	JAN '82	

DR. 20 (13847)

J.H.H. J05 NO. 2055



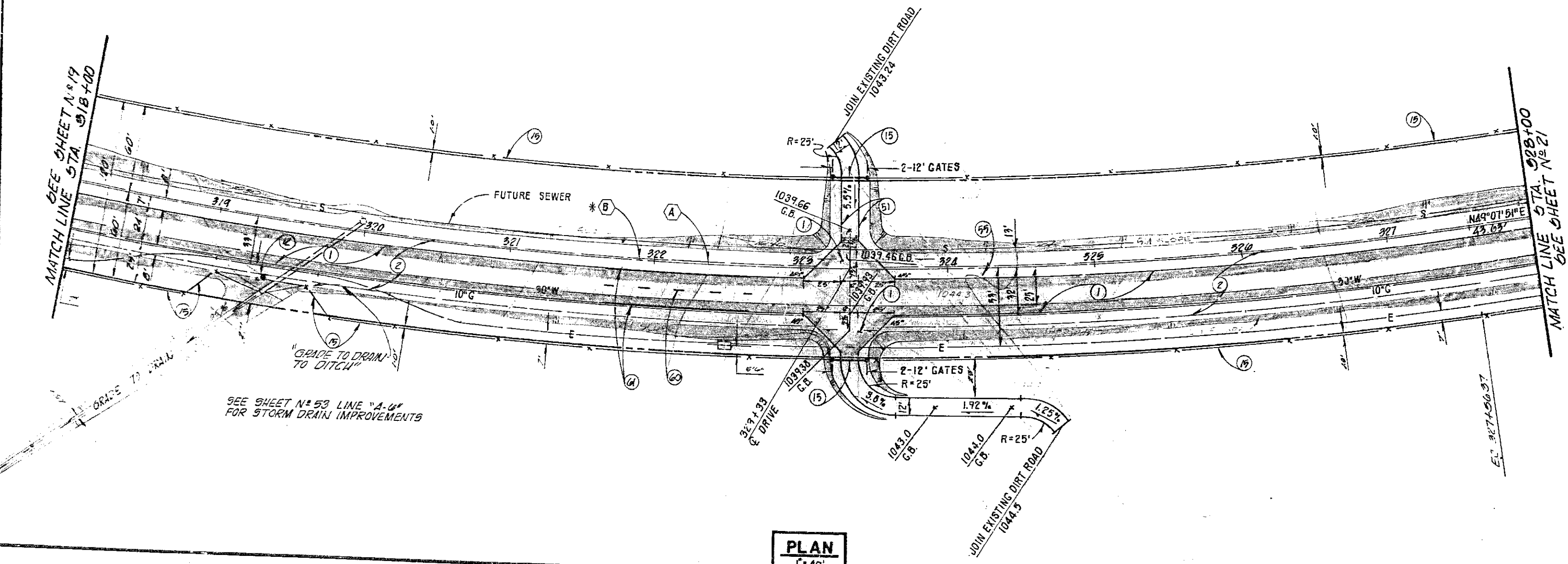
**BENCHMARK:** EL. = 802.667 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1" S. OF  
 STEEL PADDLE BOARD. DES. 244-14-77.

CURVE DATA				
NO.	Δ	E	L	T
(A)	19° 24' 12"	2800.00	756.37'	432.89'
(B)	46° 32' 48"	2800.00'	2274.70'	1204.33'

\* TOTAL CURVE DATA

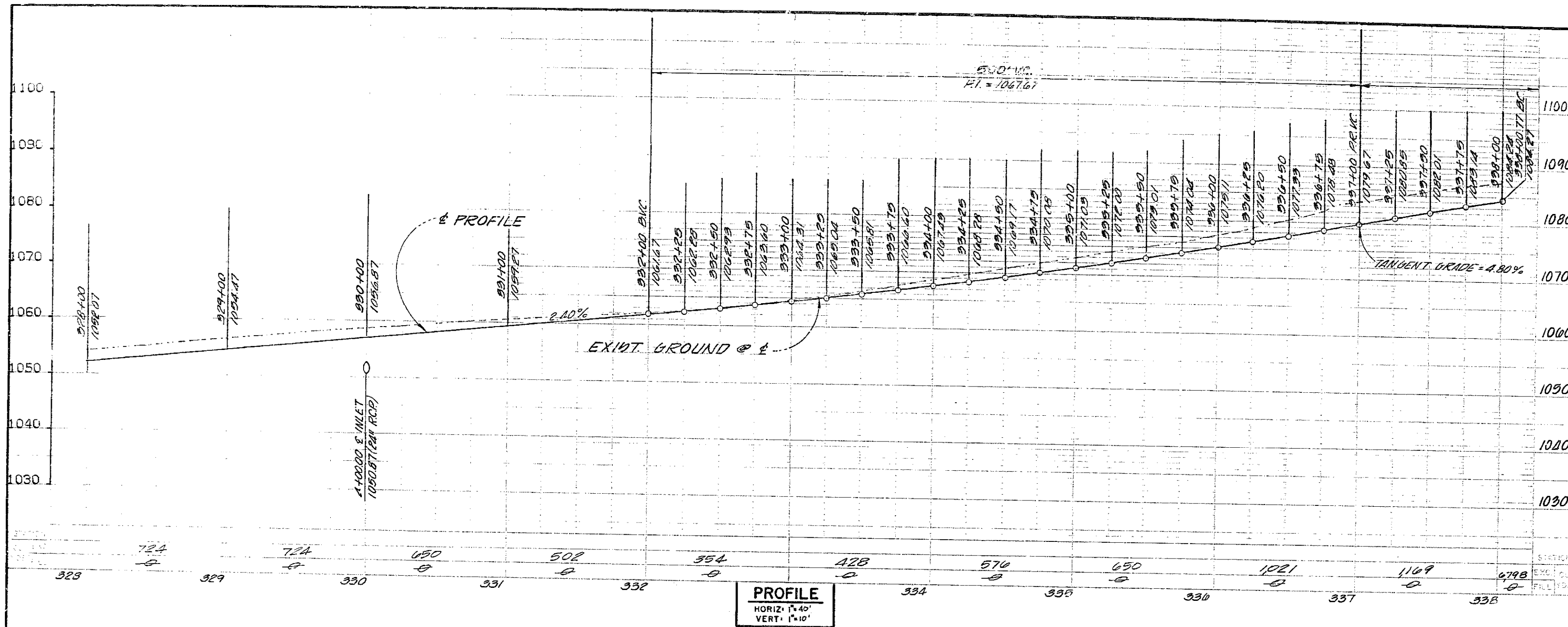
**CONSTRUCTION NOTES**

- (1) CONSTRUCT AC OVER AB. PER SECTION SHEET N° 2
- (2) CONSTRUCT AC SHOULDER PER SECTION SHEET N° 2
- (3) INSTALL 5 STRAND BARBED WIRE FENCE & GATE PER CALTRANS STD. N° 478-B.
- (4) REMOVE EXISTING FENCING.
- (5) PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
- (6) PAINT 4" SOLID WHITE STRIPE.
- (7) INSTALL CULVERT MARKER PER D.C.E.M.A. STD. N° 402.
- (8) CONST. AC OVER NATIVE MATERIAL.



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>ALICIA PARKWAY</b>	
STA. 318+00 TO 328+00	
MARK DATE	DESCRIPTION
DESIGNED: L.B.T.    CHECKED: L.R.W.    AS SHOWN: JAH. '82 PREPARED UNDER SUPERVISION OF: Lawrence R. Wilezien R.C.E. #11155 DATE: 1/8/82 SCALE: DATE: DWG. NO.: 57	

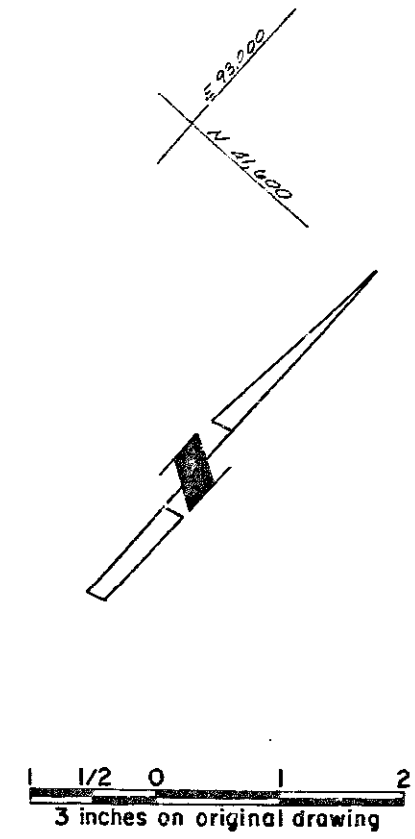
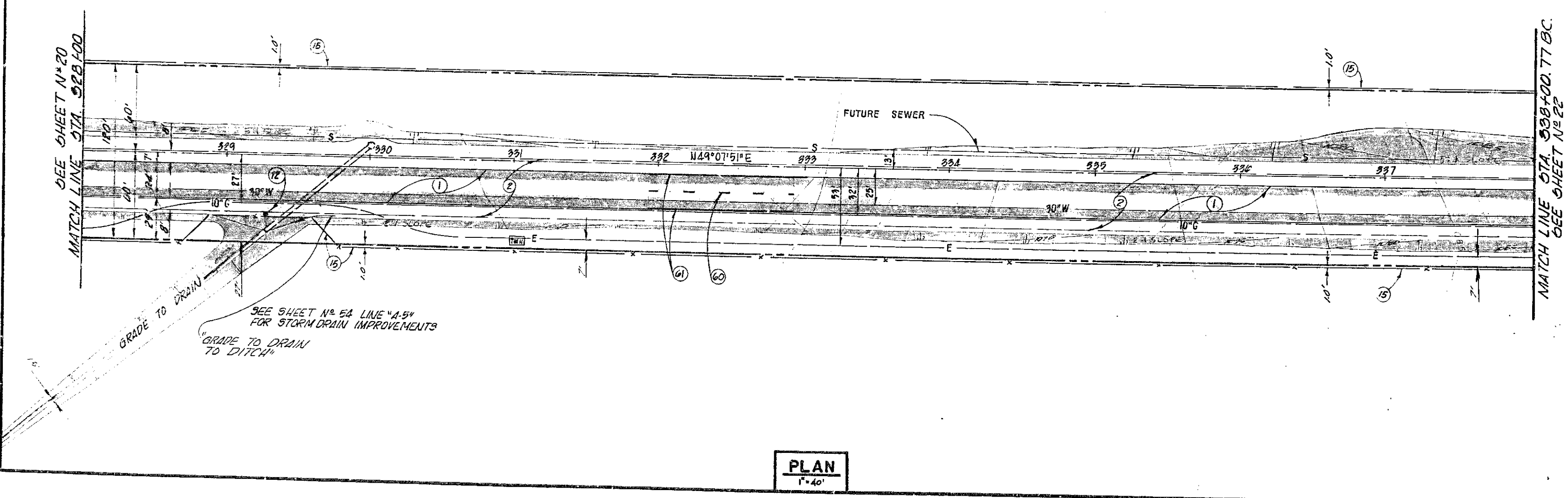




**BENCHMARK:** EL. = 802.669 1976 ADJ.  
0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL  
TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC.  
POST EXPOSED 1' ABOVE GROUND, 1" S. OF STEEL PADDLE BOARD.  
DES. 3/44-14-77.

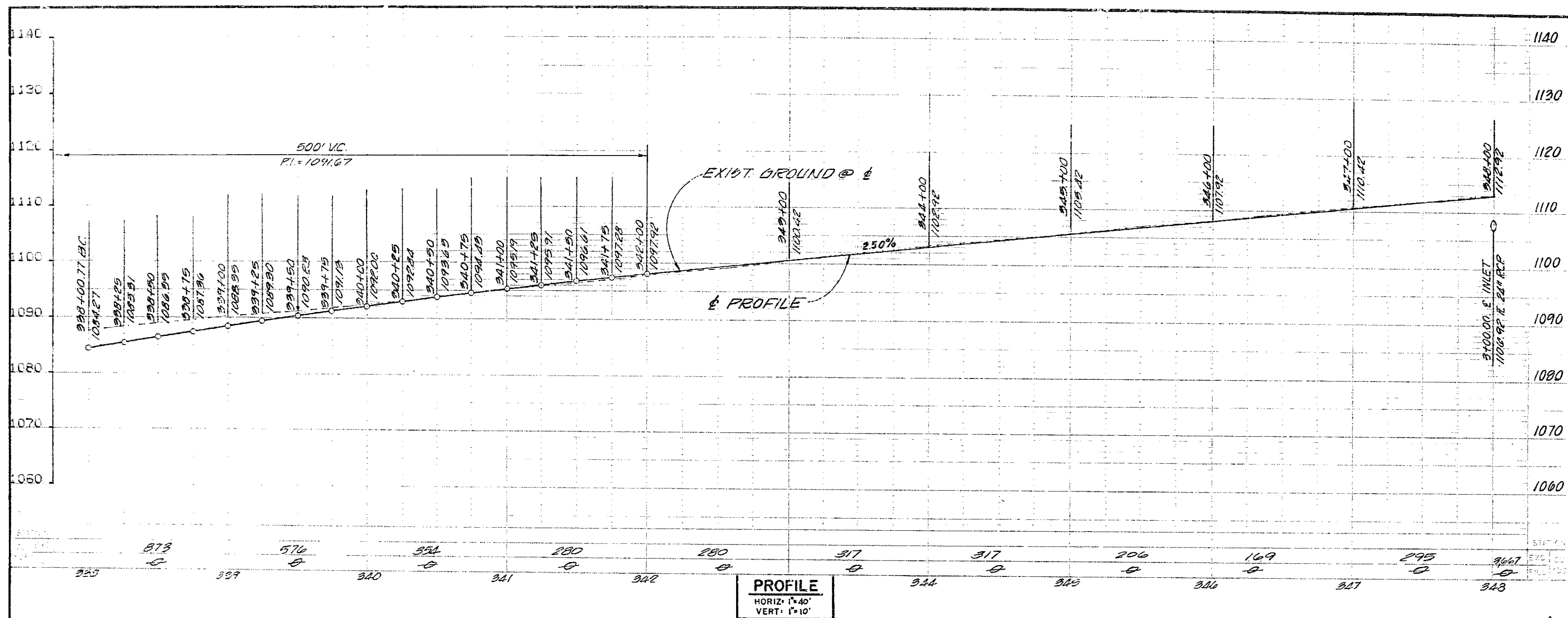
**CONSTRUCTION NOTES**

- ①—CONSTRUCT AC. OVER AB. PER SECTION SHEET N° 2
- ②—CONSTRUCT AC. SHOULDER PER SECTION SHEET N° 2
- ③—INSTALL 5 STRAND BARBED WIRE FENCE  
PER CAL TRANS STD N° 178-B
- ④—PAINT 4" DASHED YELLOW STRIPE  
(7' STRIPE, 17' GAP)
- ⑤—PAINT 4" SOLID WHITE STRIPE
- ⑥—INSTALL CULVERT MARKER PER O.C.E.M.A. STD. N° 402.



		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
		<b>ALICIA PARKWAY</b>	
		STA. 328+00 TO 338+00.77	
MARK DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF <i>Lawrence R. Wilezien</i>	SHEET 21
DESIGNED	L.D.T.	LAWRENCE R. WILEZIEN R.C.E. #19355	DATE
DRAWN	R.S.C.	CHECKED	AS SHOWN
		DATE	DWG. NO.
		JAN. '82	51

DR. 20 (13847)



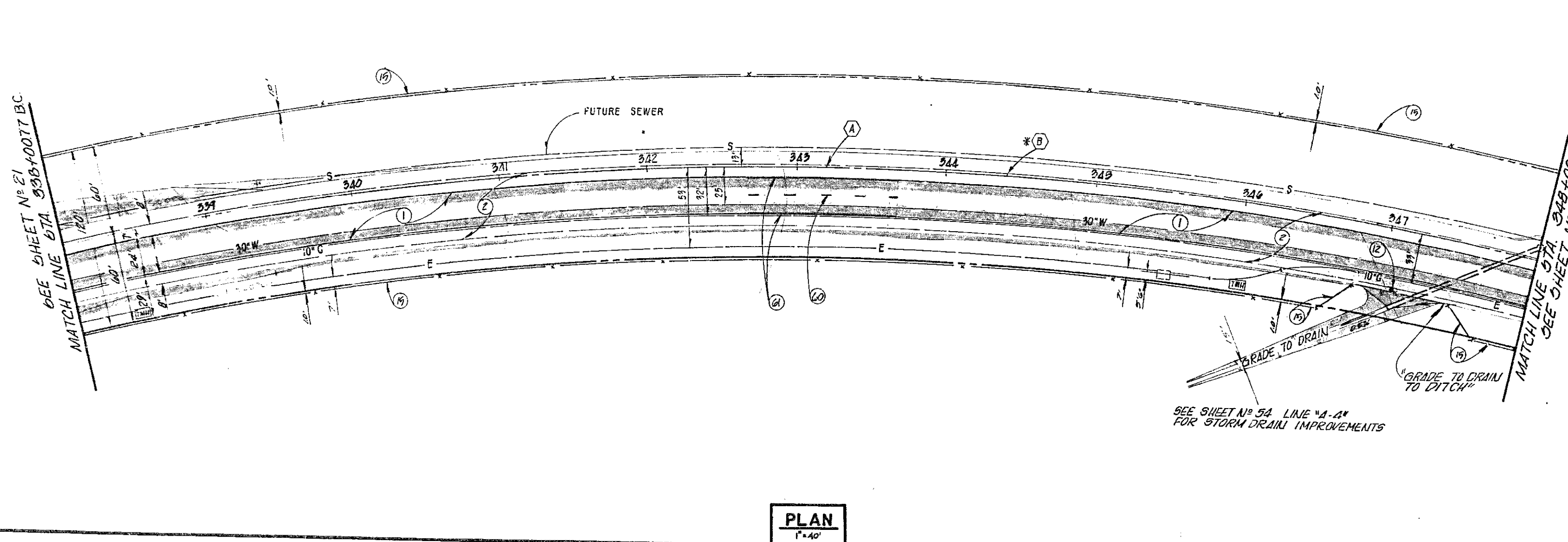
**BENCHMARK:** EL. = 802.669 1976 ADJ.  
 0.1 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADDLE BOARD. DES. 9/11-12-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	27°15'26"	2100.00	999.23	509.26
(B)	47°09'57"	2100.00	1728.72	916.72

\* TOTAL CURVE DATA

#### CONSTRUCTION NOTES

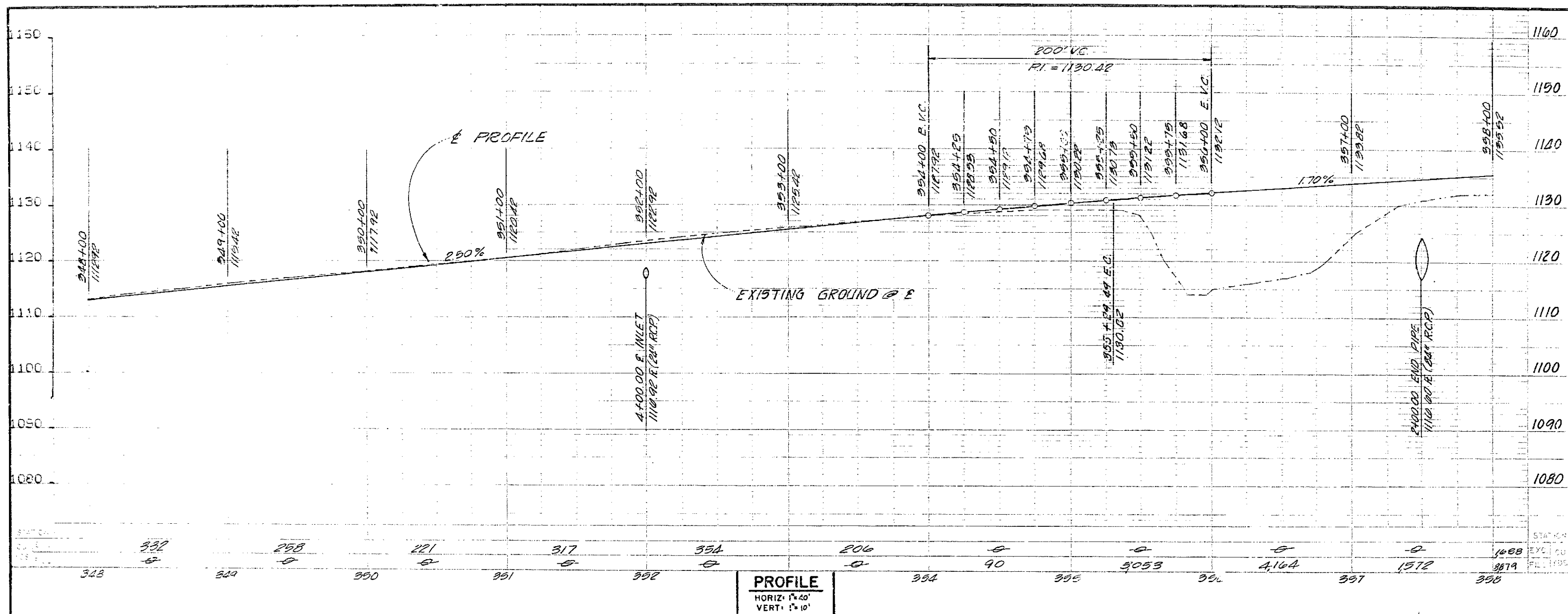
- ①—CONSTRUCT AC OVER AB PER SECTION SHEET N° 2
- ②—CONSTRUCT AC SHOULDER PER SECTION SHEET N° 2
- ③—INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRULIP STD. N° 175-B
- ④—PAINT 2" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
- ⑤—PAINT 2" SOLID WHITE STRIPE
- ⑥—INSTALL CULVERT MARKER PER O.C.E.M.A. STD. N° 402



1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>ALICIA PARKWAY</b>	
STA. 338+00.77 TO 348+00	
MARK DATE	DESCRIPTION
DESIGNED: L.D.T. PREPARED UNDER SUPERVISION OF: <i>Lawrence R. Wleziem</i> DATE: 7/18/82 DRAWN: R.S.E. CHECKED: L.R.W. AS SHOWN: JAN. '82	
SCALE	DWG. NO.
22	51

DR. 20 (13241)  
 J.H.H. JOB NO. 2069



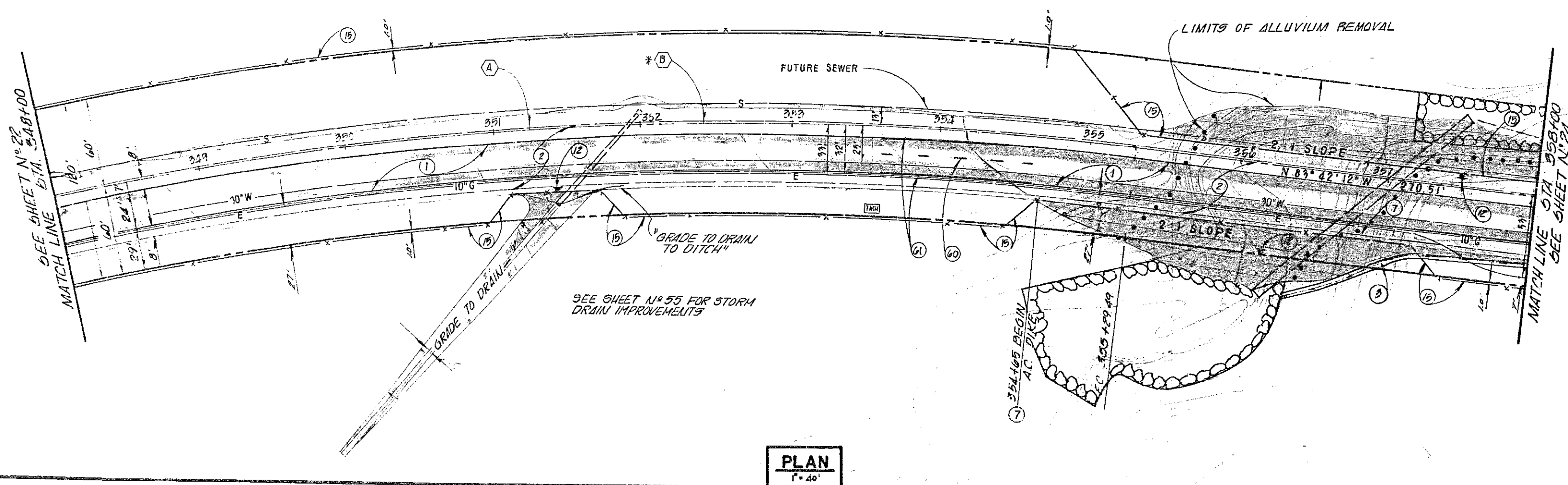
**BENCHMARK:** El. = 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 900' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 2014 ON THE S.W. LEG  
 CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE  
 BOARD. DES. 3/4/14-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	19° 54' 11"	2100.00'	729.47'	968.45'
(B)	47° 09' 57"	2100.00'	1728.72'	916.72'

\* TOTAL CURVE DATA

#### CONSTRUCTION NOTES

- ① - CONSTRUCT AC OVERLAY PER SECTION SHEET N° 2
- ② - CONSTRUCT AC SHOULDER PER SECTION SHEET N° 2
- ③ - CONSTRUCT DOWNDRAIN PER OC.E.M.A. STD. L# 921
- ④ - CONSTRUCT AC DIKE PER OC.E.M.A. STD. N° 201
- ⑤ - INSTALL CULVERT MARKER PER OC.E.M.A. STD. N° 402
- ⑥ - INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRANS STD. L# 478-2
- ⑦ - PAINT 4" DASHED YELLOW STRIPE (7" STRIPE, 17' GAP)
- ⑧ - PAINT 2" SOLID WHITE STRIPE



N 42,000  
 1" = 400'

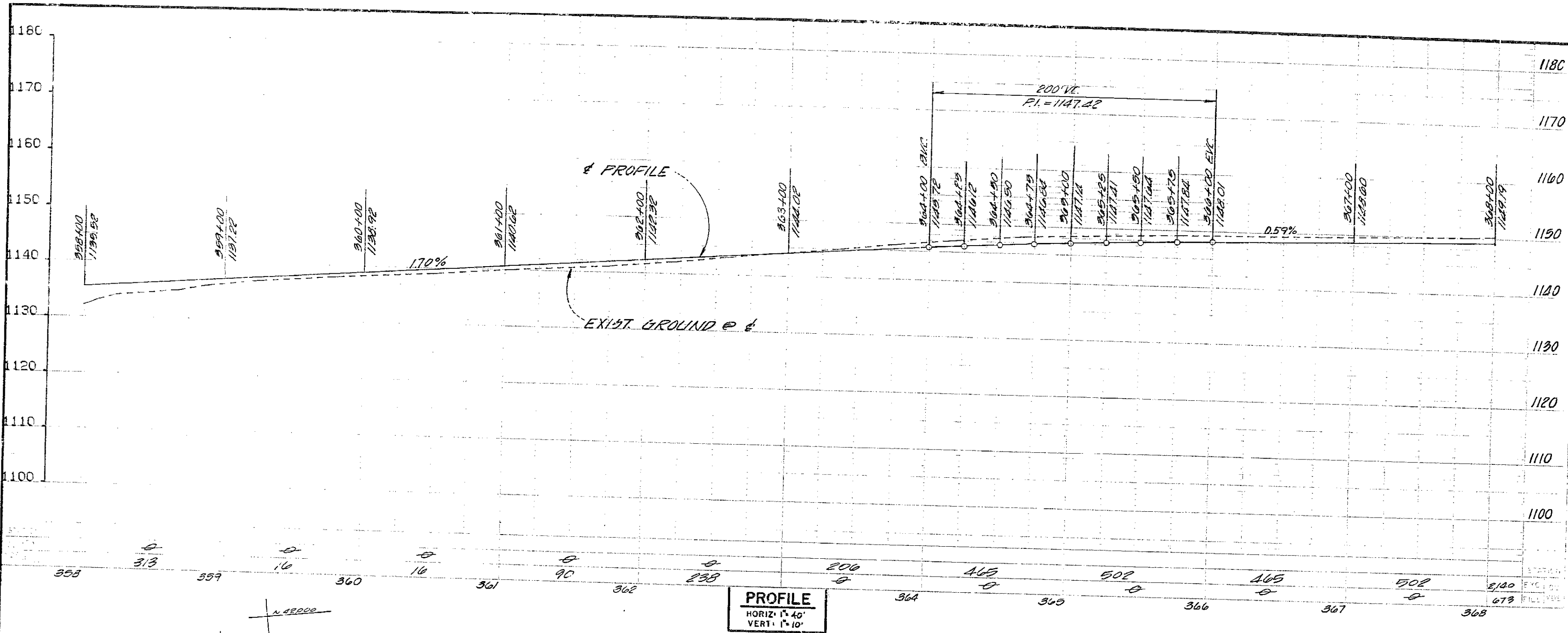
1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		ALICIA PARKWAY STA. 348+00 TO 358+00	
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF <i>Lawrence R. Wleziem</i> SHEET 23
REVISIONS		L.D.T.	LAWRENCE R. WLEZIEM R.C.E.M.A. 19355 DATE
DESIGNED	R.S.E.	CHECKED	AS SHOWN JAN. '12
DWG. NO.		57	

DR. 20 (13847)

U.N.H. 005 NO. 2065



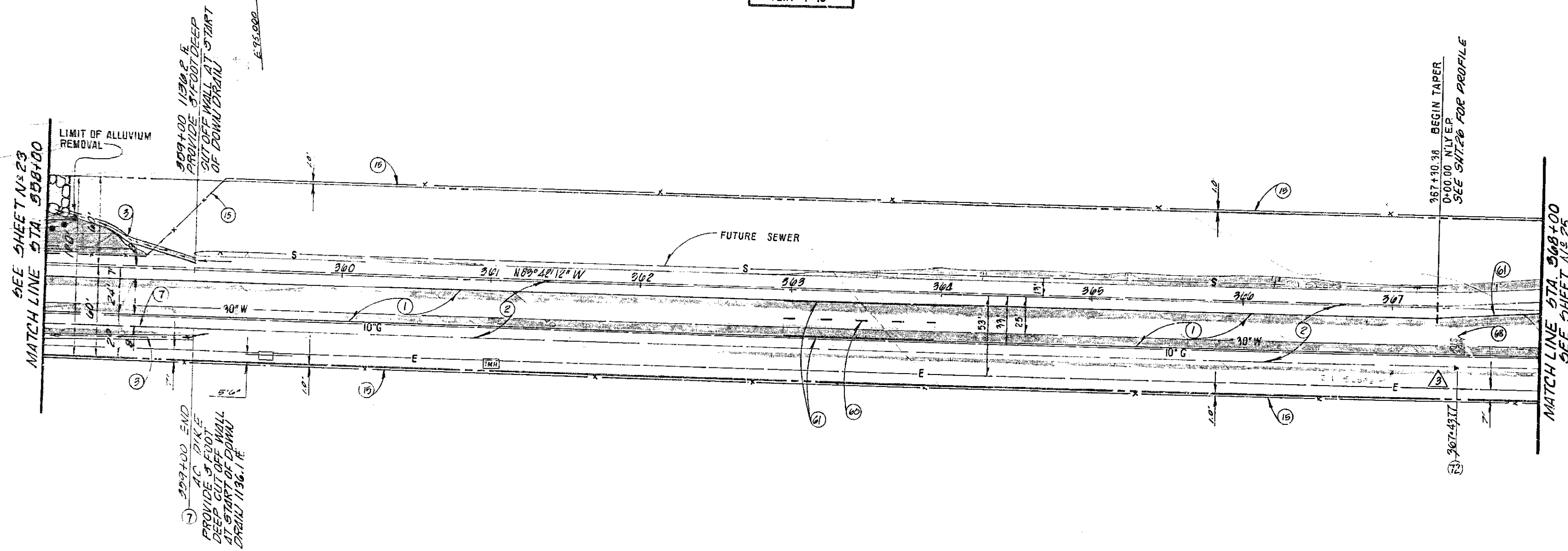


**BENCHMARK:** EL. 202.659 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG  
 CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE  
 BOARD. DES. 34N-14-77.

**CONSTRUCTION NOTES**

- ① CONSTRUCT AC OVERLAY PER SECTION 517.11.2
- ② CONSTRUCT AC SHOULDER PER SECTION 517.11.2
- ③ CONSTRUCT DRAINAGE PER SECTION 517.11.2
- ④ CONSTRUCT AC DIKE PER DCEMA STD. 11-201
- ⑤ INSTALL 5 STRAND BARBED WIRE FENCE PER CAL TRANS STD. 11-201
- ⑥ PAINT 2" DASHED YELLOW STRIPE (7' STRIPE, 11' GAP)
- ⑦ PAINT 4" SOLID WHITE STRIPE
- ⑧ INSTALL WIT "STOP AHEAD" SIGN
- ⑨ PAINT STEELIC "STOP AHEAD"

**PROFILE**  
 HORIZ. 1" = 40'  
 VERT. 1" = 10'

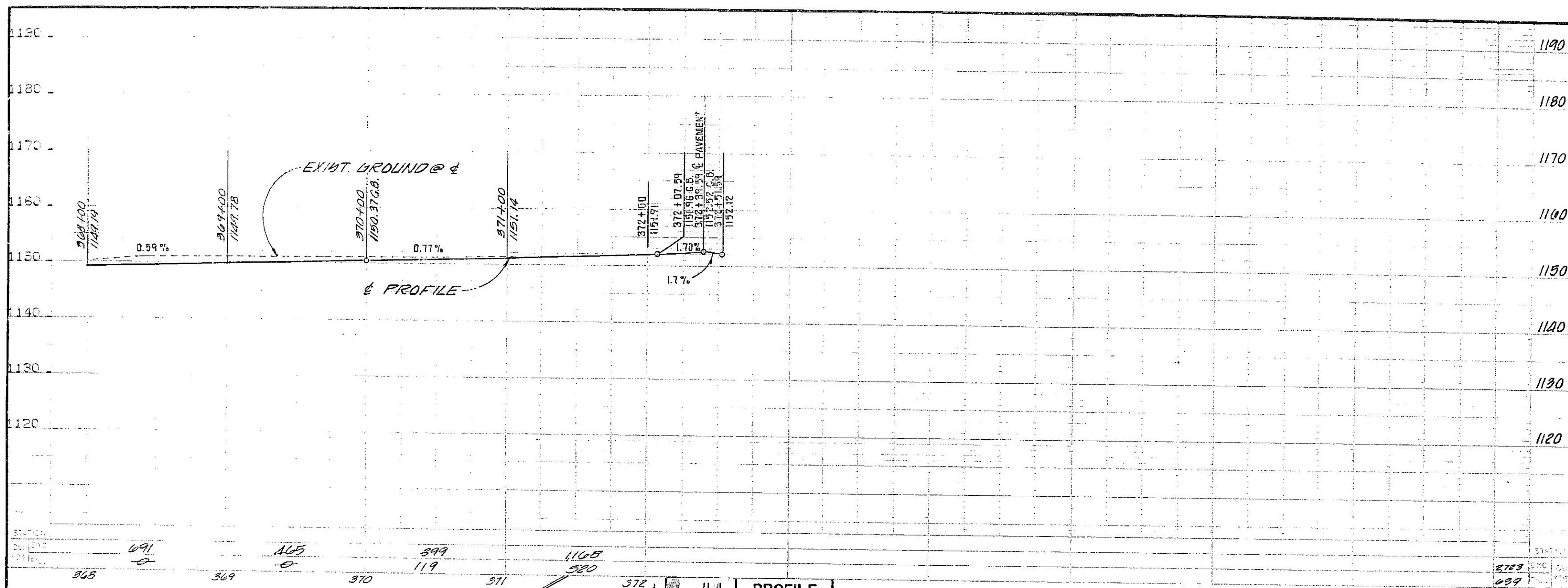


**PLAN**  
 1" = 40'

1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>ALICIA PARKWAY</b>	
STA. 358+00 TO 368+00	
DESIGNED R.S.E.	CHECKED L.R.V.
DATE JAN. '82	DATE JAN. '82
SCALE AS SHOWN	DWG. NO. 57

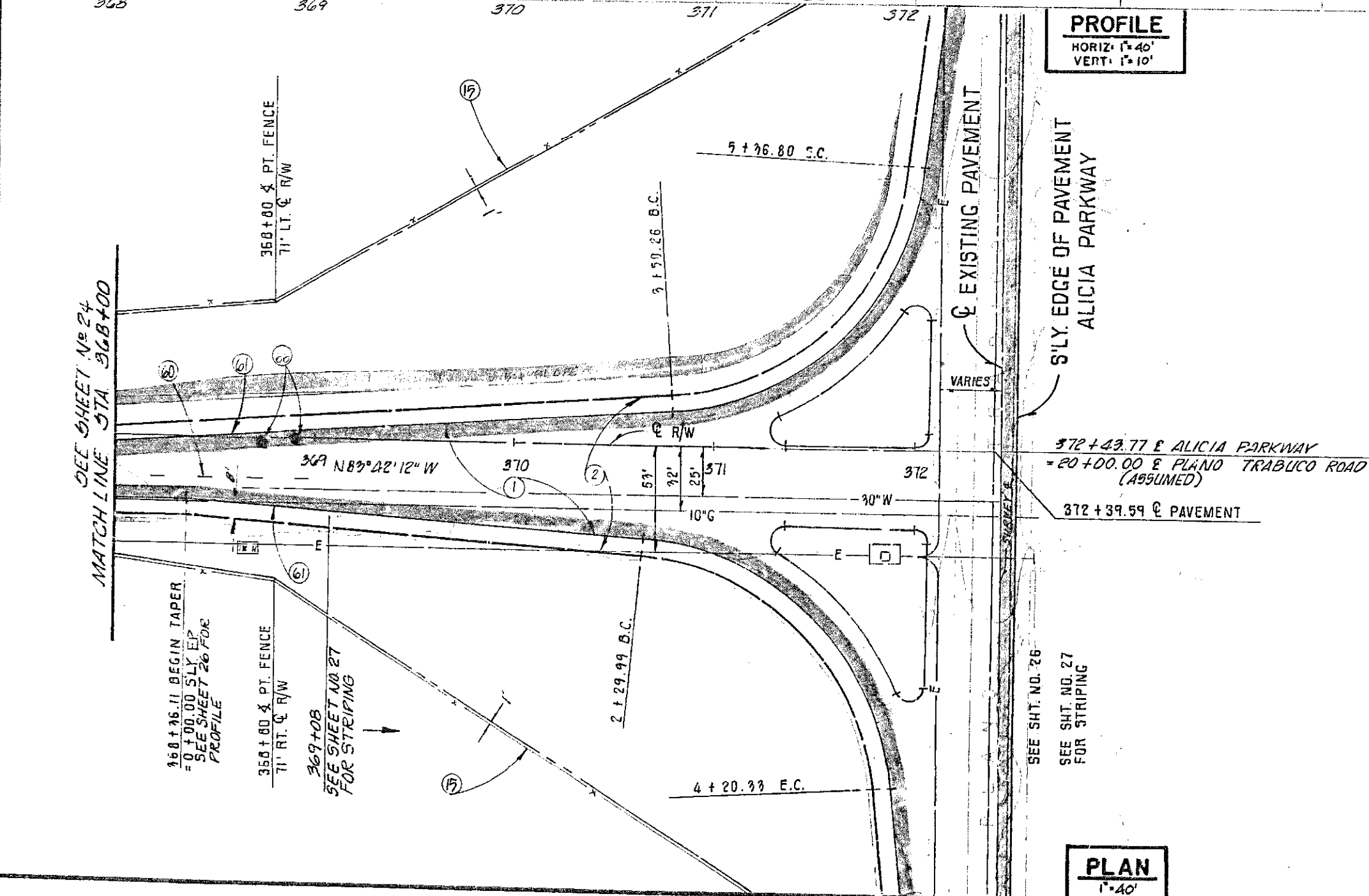
DR. 20 (13847) J.H.H. JOB NO. 2865



**BENCHMARK:** EL. = 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A  
 STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W.  
 LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL  
 PADPOLE BOARD, DES. 344-14-77.

**CONSTRUCTION NOTES**

- ①—CONSTRUCT AC. OVER AB. PER SECTION SHEET NO. 2
- ②—CONSTRUCT AC. SHOULDER PER SECTION SHEET NO. 2
- ③—INSTALL 5 STRAND BARBEDWIRE FENCE  
PER CAL TRANS STATION 178-B
- ④—PAINT 4" SOLID WHITE STRIPE
- ⑤—PAINT STENCIL ARROW
- ⑥—PAINT 4" DASHED YELLOW STRIPE  
(7' STRIPE, 17' GAP)



**PROFILE**  
 HORIZ. 1"=40'  
 VERT. 1"=10'

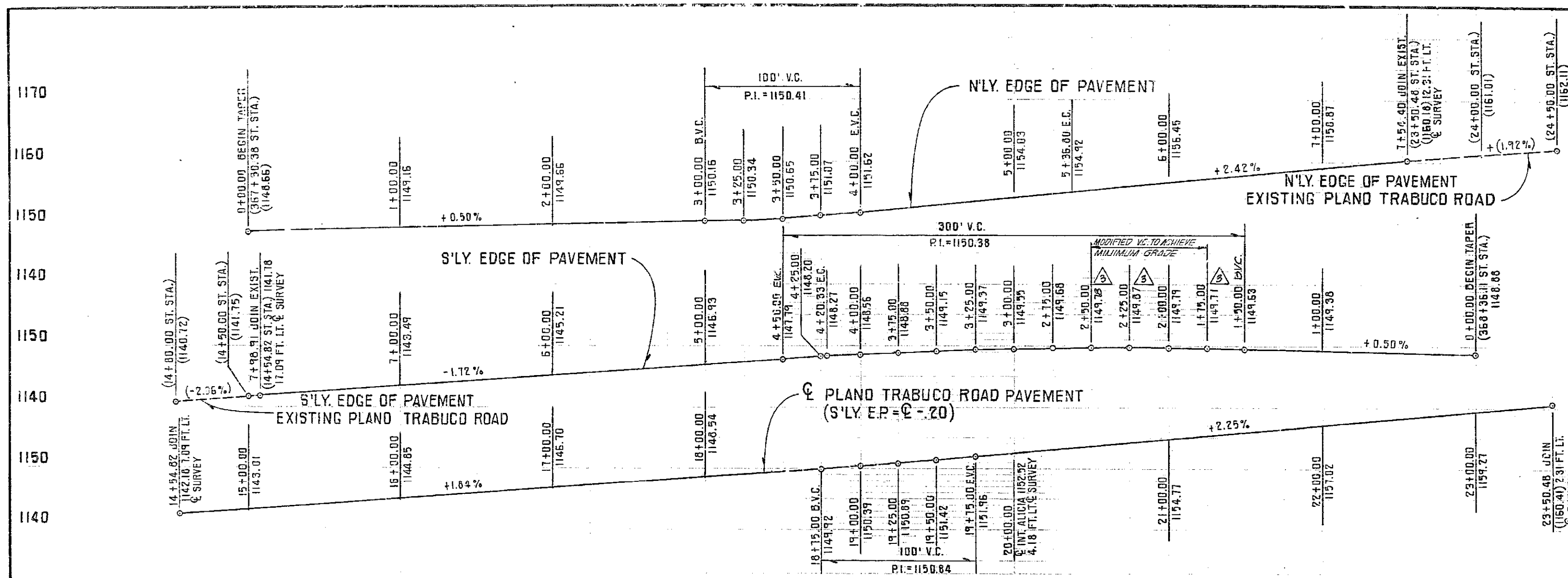
**PLAN**  
 1"=40'

1 1/2 0 1 2  
 3 inches on original drawing

		ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
		<b>ALICIA PARKWAY</b>	
		STA. 368+00 TO 372+43.77	
MARK	DATE	PREPARED UNDER SUPERVISION OF	SHEET
REVISIONS		LAWRENCE R. WILZIEH R.C.E. #15355	25
DESIGNED	L.D.T.	SCALE	DATE
DRAWN	R.S.E.	CHECKED	AS SHOWN JAN. '82
		DWG. NO.	57

DR. 20 (13247)

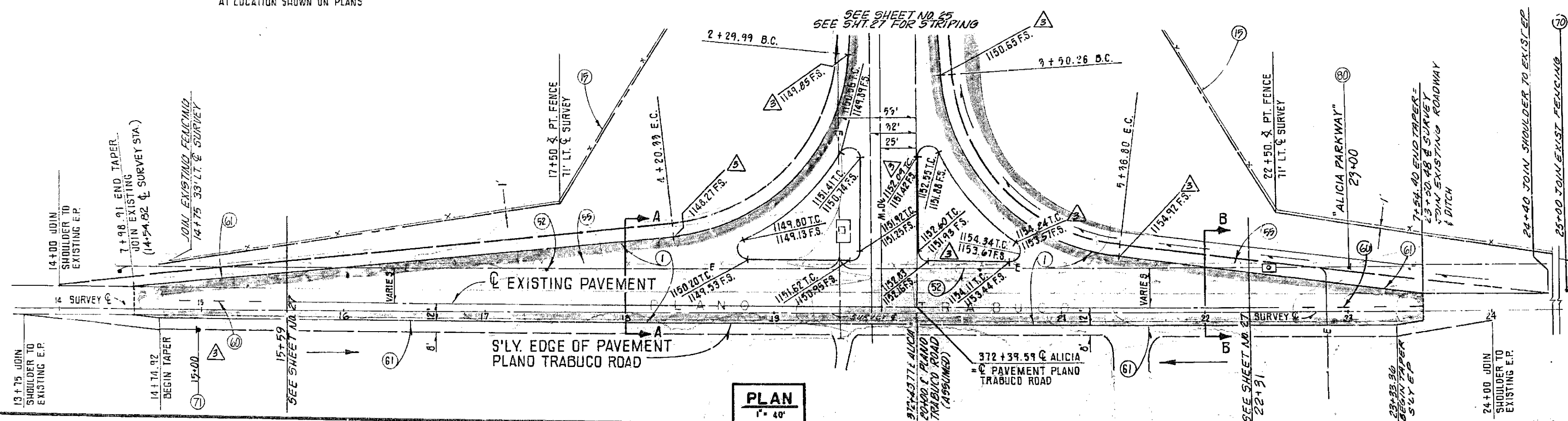
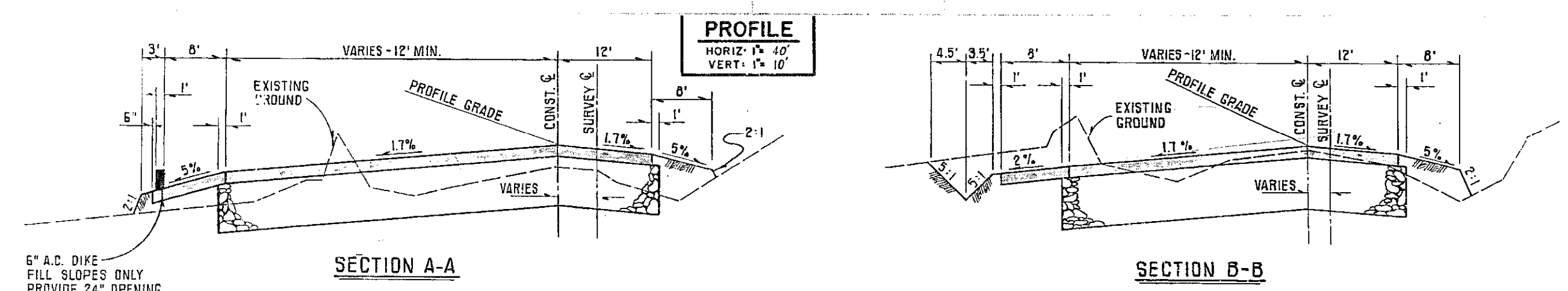
J.H.H. JOB NO. 2065



**BENCHMARK:** EL. = 822.669 1976 ADJ.  
 0.5 MI. E. OF MARGUERITA 900' N. OF O'NEILL RD. BY A STEEL  
 TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST  
 EXPOSED 1" ABOVE GROUND, 1" S. OF STEEL PADDLE BOARD.  
 DES. 9/4/4-14-77.

**CONSTRUCTION NOTES**

- ①—CONSTRUCT AC OVER AB. PER SECTION SHEET N° 2.
- ②—CONSTRUCT AC. SHOULDER PER SECTION SHEET N° 2.
- ③—REMOVE & RELOCATE POWER POLES (BY OTHERS).
- ④—REMOVE EXISTING FENCING.
- ⑤—INSTALL 5 STRAND BARBEDWIRE FENCE PER CAL TRAIL 5 STD N° 478-B.
- ⑥—INSTALL WID (RT) INTERSECTION SIGN.
- ⑦—INSTALL WID (LT) INTERSECTION SIGN.
- ⑧—PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP).
- ⑨—PAINT 4" SOLID WHITE STRIPE.
- ⑩—INSTALL R11 AND R1A "DO NOT ENTER" SIGN.
- ⑪—INSTALL STREET NAME SIGN PER OCCEMA STD N° 207.



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
ALICIA PARKWAY PLANO TRABUCO ROAD	
DESIGNED: L.D.T.	CHECKED: L.R.W.
DATE: JAN. 92	DATE: JAN. 92
SCALE: AS SHOWN	DWG. NO. 57
SHEET 26 OF 57	

DR. 20 (13847) J.H.H. JOB NO. 2065



# CONSTRUCTION NOTES

1. INSTALL TYPE "B" CURB PER O.C.E.M.A. STD. NO. 201
2. PAINT 4" DASHED YELLOW STRIPE (7' STRIPE, 17' GAP)
3. PAINT 4" SOLID WHITE STRIPE.
4. PAINT 4" DASHED WHITE STRIPE (7' STRIPE, 17' GAP)
5. PAINT 12" SOLID WHITE STRIPE.
6. PAINT 24" SOLID DOUBLE YELLOW STRIPE.
7. PAINT 8" SOLID WHITE STRIPE.
8. PAINT STENCIL ARROW.
9. PAINT STENCIL "STOP"
10. PAINT STENCIL "STOP AHEAD"
11. SANDBLAST EXISTING STRIPING.

12. INSTALL W17 "STOP AHEAD" SIGN.
13. INSTALL R1 "STOP" SIGN.
14. INSTALL W59 "MERGING LANE" SIGN.

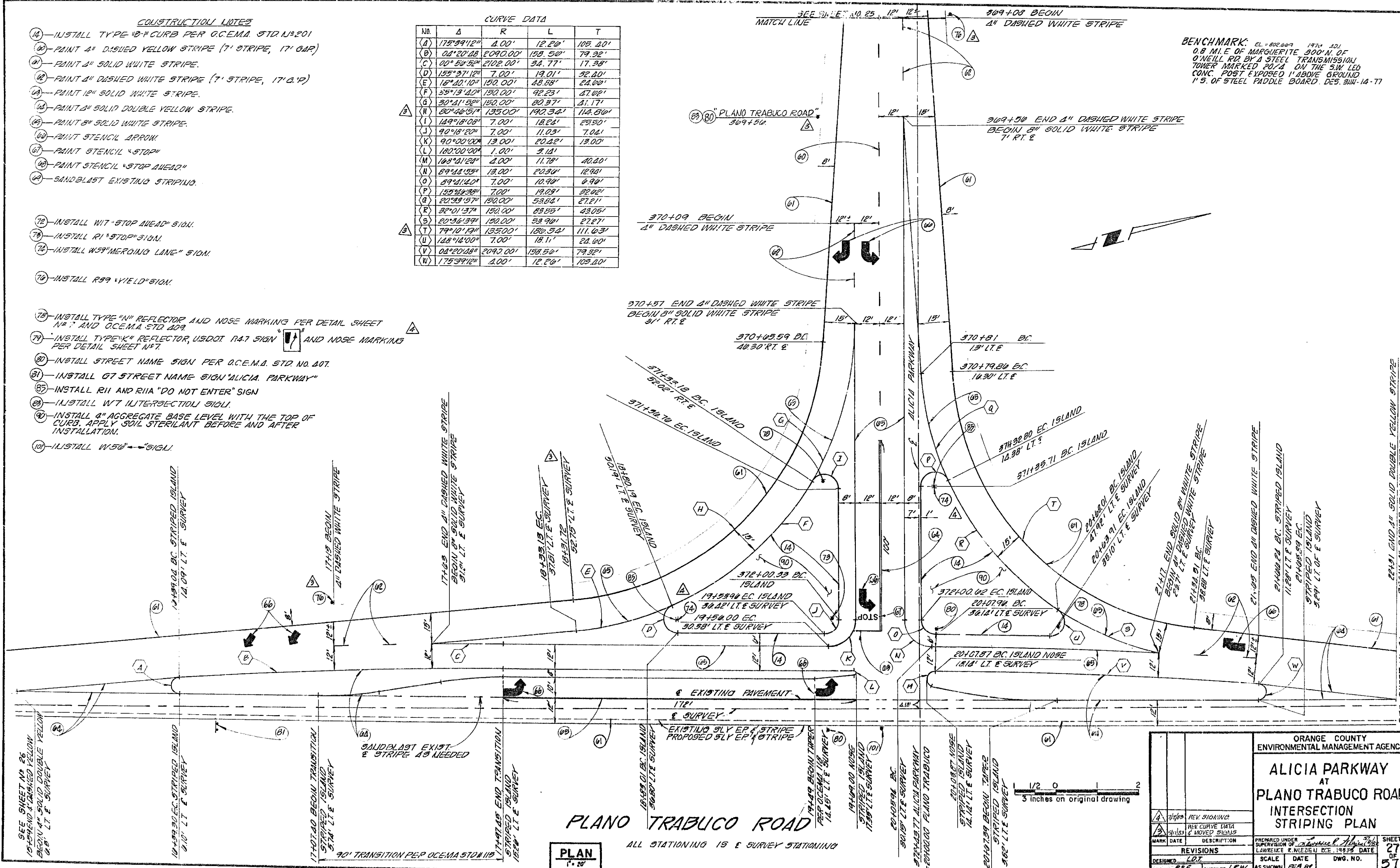
15. INSTALL R39 "YIELD" SIGN.

16. INSTALL TYPE "N" REFLECTOR AND NOSE MARKING PER DETAIL SHEET NO. 7 AND O.C.E.M.A. STD. 409.
17. INSTALL TYPE "K" REFLECTOR, US DOT R47 SIGN AND NOSE MARKING PER DETAIL SHEET NO. 7.
18. INSTALL STREET NAME SIGN PER O.C.E.M.A. STD. NO. 407.
19. INSTALL G7 STREET NAME SIGN "ALICIA PARKWAY"
20. INSTALL R11 AND R11A "DO NOT ENTER" SIGN
21. INSTALL W7 INTERSECTION SIGN
22. INSTALL 4" AGGREGATE BASE LEVEL WITH THE TOP OF CURB, APPLY SOIL STERILANT BEFORE AND AFTER INSTALLATION.
23. INSTALL W56 "SIGNAL"

## CURVE DATA

NO.	Δ	R	L	T
A	175°39'12"	4.00'	12.20'	109.20'
B	04°20'48"	2040.00'	199.50'	79.92'
C	00°54'52"	2102.00'	34.77'	17.38'
D	155°37'12"	7.00'	19.01'	92.40'
E	16°42'10"	150.00'	48.88'	24.00'
F	35°13'40"	150.00'	92.23'	47.02'
G	30°41'52"	150.00'	80.97'	41.17'
H	80°44'54"	135.00'	190.34'	114.50'
I	149°18'08"	7.00'	18.24'	29.50'
J	90°18'20"	7.00'	11.03'	7.04'
K	90°00'00"	13.00'	20.42'	13.00'
L	180°00'00"	1.00'	3.14'	
M	143°41'24"	4.00'	11.78'	40.40'
N	89°48'55"	13.00'	20.90'	12.94'
O	89°41'40"	7.00'	10.99'	6.90'
P	105°34'30"	7.00'	19.09'	22.02'
Q	20°39'15"	150.00'	53.84'	27.21'
R	32°01'37"	150.00'	89.85'	43.05'
S	20°36'39"	150.00'	53.90'	27.27'
T	79°10'19"	135.00'	180.54'	111.63'
U	148°12'00"	7.00'	18.11'	24.00'
V	04°20'48"	2040.00'	199.50'	79.92'
W	175°39'12"	4.00'	12.20'	109.20'

BENCHMARK: EL. 892.649 1974 ADJ.  
0.8 MILE OF MARGUERITE 300' N. OF  
O'NEILL RD BY A STEEL TRANSMISSION  
TOWER MARKED 20/4 ON THE SW LEG  
CONC. POST EXPOSED 1' ABOVE GROUND  
1" S. OF STEEL PADDLE BOARD. DES. 3/14-77



## PLANO TRABUCO ROAD

ALL STATIONING IS S SURVEY STATIONING

PLAN  
1" = 20'

DR. 20 (13847)

ORANGE COUNTY  
ENVIRONMENTAL MANAGEMENT AGENCY

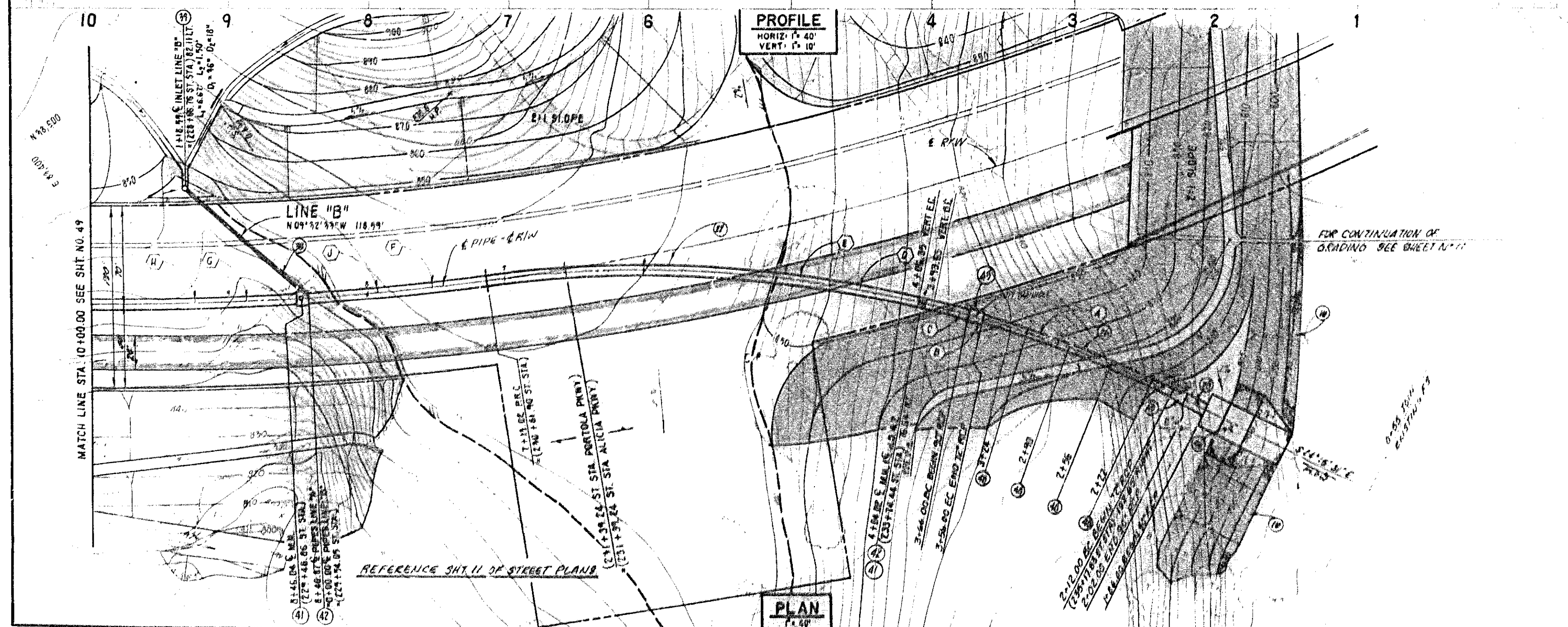
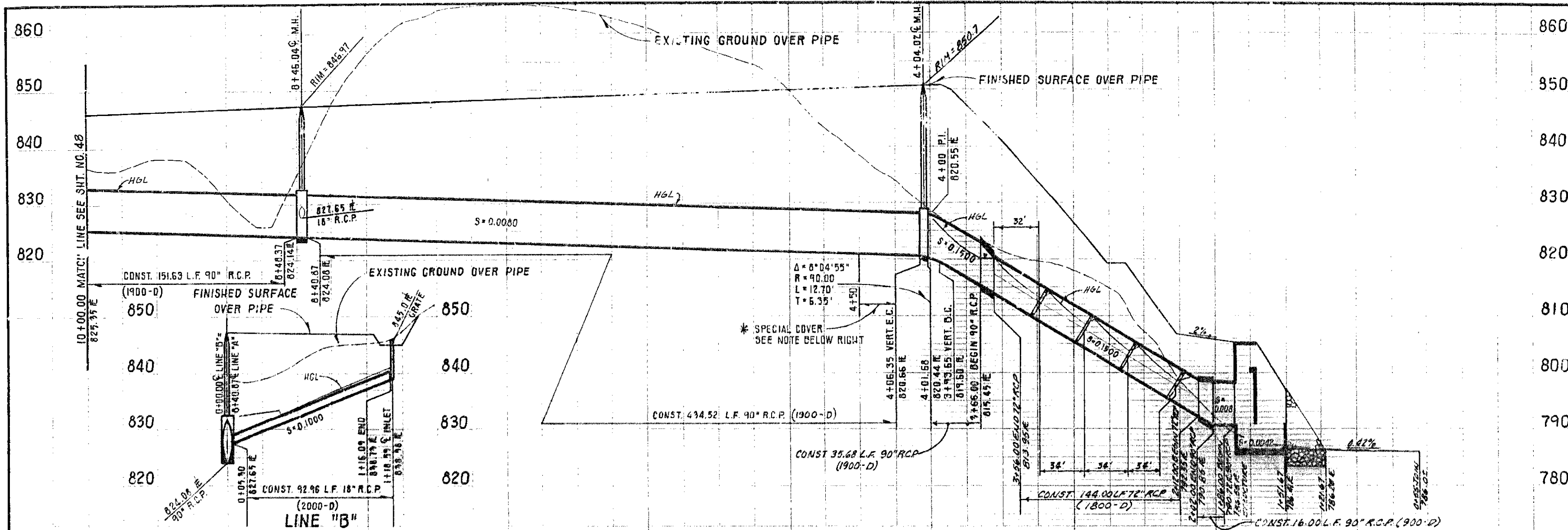
## ALICIA PARKWAY AT PLANO TRABUCO ROAD INTERSECTION STRIPING PLAN

REV.	DATE	DESCRIPTION
1	10/1/83	REV. SIGNING
2	11/1/83	REV. CURVE DATA
3	12/1/83	REV. MOVED SIGNS

DESIGNED: L.O.T.  
DRAWN: P.S.E.  
CHECKED: L.F.W.

SCALE: AS SHOWN  
DATE: FEB 84  
DWG. NO.: 27 OF 57

JUL. JOB NO. 2005



**BENCHMARK:** EL. 802.669 1976 ADJ.  
0.8 MI. E. OF MARGUERITE 100' N. OF O'NEILL RD. BY A STEEL  
TRANSITION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST EXPOSED  
1' ABOVE GROUND, 1' S. OF STEEL PADDLE BOARD.  
DES. 3/11/14-77

CURVE DATA				
NO.	Δ	R	L	T
(A)	9°42'24"	850.00'	144.00'	72.17'
(B)	0°40'27"	850.00'	10.00'	5.00'
(C)	2°33'46"	850.00'	38.02'	19.01'
(D)	20°49'43"	850.00'	309.00'	156.22'
(E)	33°46'20"	850.00'	501.02'	258.02'
(F)	9°29'18"	2100.00'	127.85'	63.95'
(G)	1°36'48"	2100.00'	59.13'	29.57'
(H)	2°47'42"	2100.00'	100.00'	50.01'
(J)	25°51'17"	2100.00'	947.62'	482.02'

\* TOTAL CURVE DATA

- CONSTRUCTION NOTES**
- (10) CONST. EMBANKMENT RIP-RAP PER DETAIL SHEET NO. 3
  - (20) CONST. 90° RCP (900-D)
  - (22) CONST. 90° RCP (1800-D)
  - (24) CONST. 78" RCP (1800-D)
  - (26) CONST. 18" RCP (1800-D)
  - (30) CONST. INLET TYPE I PER O.C.E.M.A. STD. #305
  - (41) CONST. REINFORCED CONCRETE MANHOLE PER O.C.E.M.A. STD. #503
  - (49) CONST. JUNCTION STRUCTURE TYPE II PER O.C.E.M.A. STD. #312
  - (42) CONST. JUNCTION STRUCTURE TYPE II PER O.C.E.M.A. STD. NO. 311
  - (46) CONST. ENERGY DISSIPATING OUTLET STRUCTURE PER DETAIL SHEET NO. 3
  - (48) CONST. ENERGY DISSIPATOR RING PER DETAIL SHEET NO. 3 (1800-D)

HYDRAULIC ELEMENTS CHART			
LINE	STATION	Q <sub>24</sub> (cfs)	VELOCITY (fps)
A	1+86.00 TO 2+02.00	709.0	16.0
A	2+12.00 TO 3+15.00	709.0	31.2
A	3+16.00 TO 4+01.68	709.0	27.3
A	4+01.68 TO 4+40.87	709.0	17.1
A	4+40.87 TO 10+00.00	701.5	15.9
B	0+00.00 TO 1+18.59	15.5	18.5

► FOR THESE LINES, THE VELOCITY IN THE PIPE EXCEEDS 20 FEET PER SECOND. THEREFORE, THERE SHALL BE AN ADDITIONAL 1/2 INCH COVER, CONCRETE OVER STEEL, WITH A MINIMUM 1/2 INCHES CLEAR CONCRETE OVER STEEL - INSIDE FACE OF PIPE AT FLOW LINE REF. O.C.C.D. DESIGN MANUAL SEC. I-F, PAGE 92, JULY 1972 EDITION.

\* SPECIAL COVER EXTENDED STA 4+01.68 TO 4+50 LINE "A"

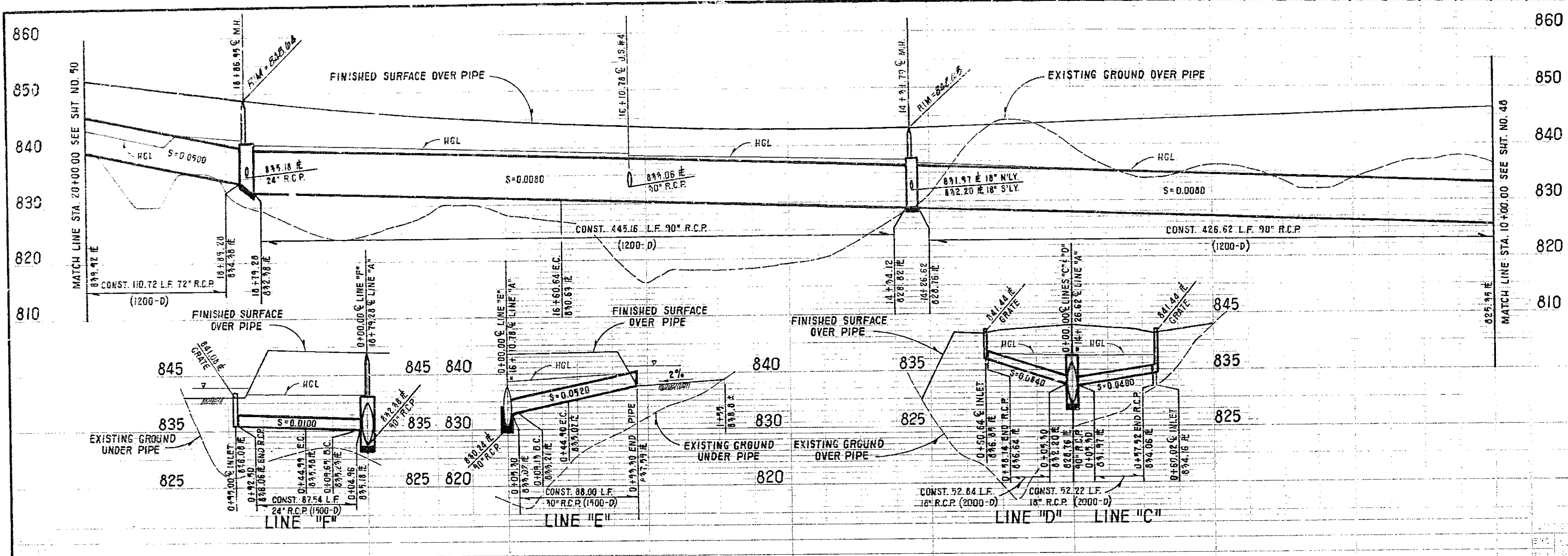
1/2 0 1 2  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		PORTOLA PARKWAY STORM DRAIN STA. 0+55.00 TO 10+00.00	
DATE	DESCRIPTION	PREPARED UNDER	SHEET
1/1/81	REVISIONS	LAWRENCE R. WILKINSON R.E. 1978	48
DESIGNED	BY	SCALE	DATE
AS SHOWN	JAN. '81	DWG. NO.	57

DR.20 (13847)

J.H.M. JOB NO. 2069





**BENCHMARK** : EL = 802.669 1976 ADJ.  
 0.6 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S OF STEEL PADDLE BOARD. DES. 3HH-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	11° 38' 29"	2100.00'	426.62'	214.05'
(B)	5° 01' 29"	2100.00'	184.16'	92.14'
(C)	1° 21' 37"	2100.00'	49.86'	24.99'
(D)	25° 51' 17"	2100.00'	947.62'	482.02'
(E)	45° 32' 44"	45.00'	35.77'	18.89'
(F)	45° 00' 00"	45.00'	35.34'	18.64'

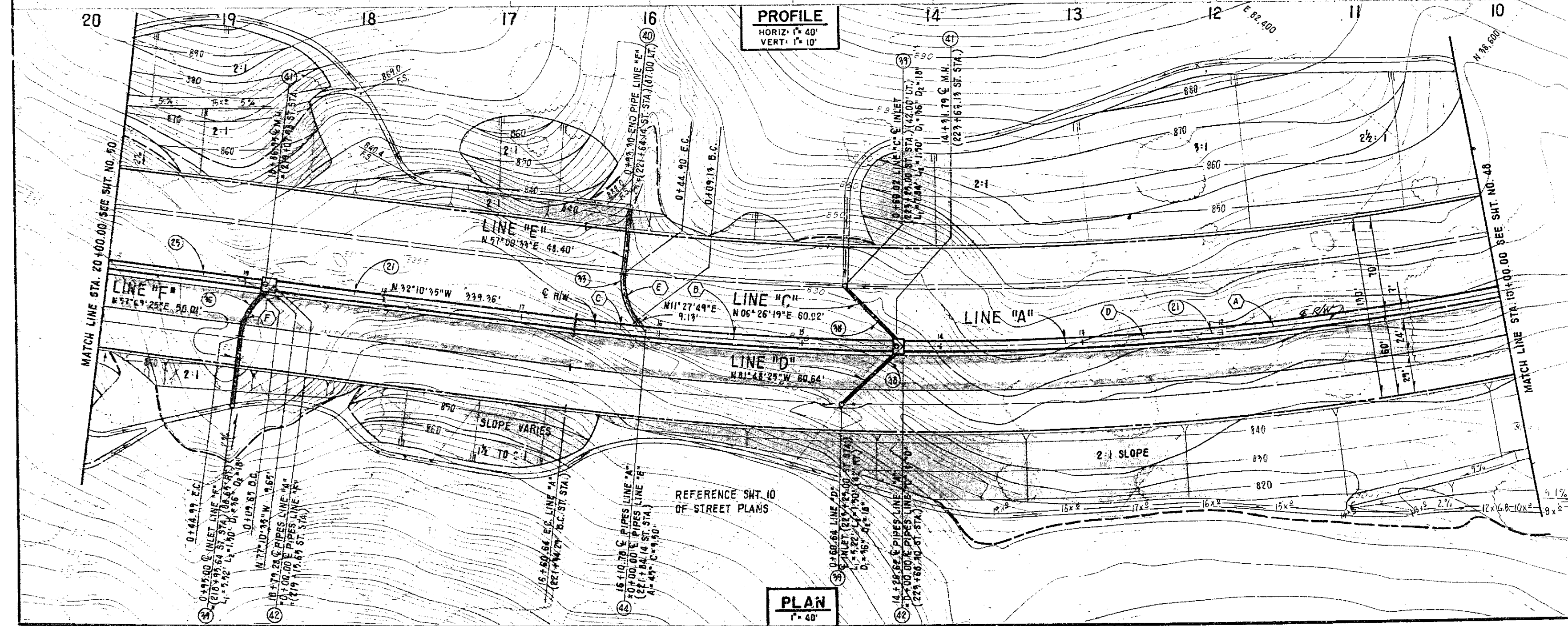
\* TOTAL CURVE DATA

**CONSTRUCTION NOTES**

- (21) CONST. 90" R.C.P. (1200-D)
- (25) CONST. 72" R.C.P. (1200-D)
- (33) CONST. 30" R.C.P. (1500-D)
- (36) CONST. 24" R.C.P. (1500-D)
- (38) CONST. 18" R.C.P. (2000-D)
- (39) CONST. INLET TYPE X PER D.C.E.M.A. STD. NO. 305.
- (40) CONST. RIP-RAP INLET STRUCTURE PER DETAIL, SHT. NO. 2.
- (41) CONST. REINFORCED CONCRETE MANHOLE PER D.C.E.M.A. STD. NO. 509.
- (42) CONST. JUNCTION STRUCTURE TYPE II PER D.C.E.M.A. STD. NO. 311.
- (44) CONST. JUNCTION STRUCTURE TYPE IX PER D.C.E.M.A. STD. NO. 313.

HYDRAULIC ELEMENTS CHART			
LINE	STATION	Q <sub>25</sub> (cfs)	VELOCITY (ft/s)
A	10+00.00 TO 14+26.62	701.6	15.9
A	14+26.62 TO 16+10.78	687.1	15.6
A	16+10.78 TO 18+79.28	667.5	15.1
A	18+79.28 TO 20+00.00	660.8	14.9
C	0+00.00 TO 0+60.64	11.8	6.7
D	0+00.00 TO 0+60.64	5.6	12.2
E	0+00.00 TO 0+99.30	33.9	17.3
F	0+00.00 TO 0+95.00	14.2	8.0

► FOR THESE LINES, THE VELOCITY IN THE PIPE EXCEEDS 20 FEET PER SECOND. THEREFORE, THERE SHALL BE AN ADDITIONAL 1/2 INCH COVER, CONCRETE OVER STEEL, WITH A MINIMUM 1 1/2 INCHES CLEAR CONCRETE OVER STEEL - INSIDE FACE OF PIPE AT FLOWLINE. REF: D.C.F.C.D. DESIGN MANUAL SEC. 1-4, PAGE 52, JULY 1972 EDITION.



1 1/2 0 1 2  
 3 inches on original drawing

**ORANGE COUNTY  
 ENVIRONMENTAL MANAGEMENT AGENCY**

**PORTOLA  
 PARKWAY  
 STORM DRAIN.**

**STA. 10+00 TO 20+00**

MAIN DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	DATE
DESIGNED	REVISIONS	LAWRENCE R. WIEZIER R.C.E. 19355	DATE
DRAWN	S.K.W.	CHECKED	L.R.W.
		AS SHOWN	APR. '82

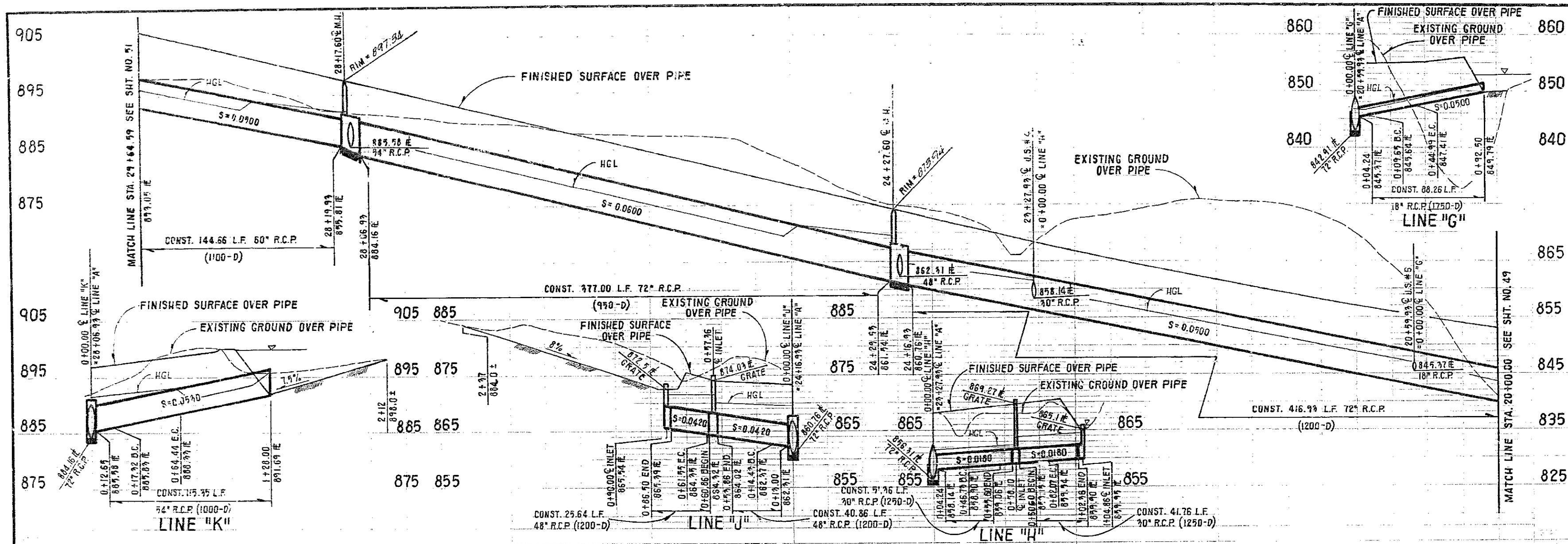
SHEET **49** OF **51**

DWG. NO.

DR. 20 (13847)

J.H.H. JOB NO. 2065





**BENCHMARK:** EL = 802.669 1976 ADJ.  
 0.1 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEC CONC POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE BOARD, DES. 3HH-14-77.

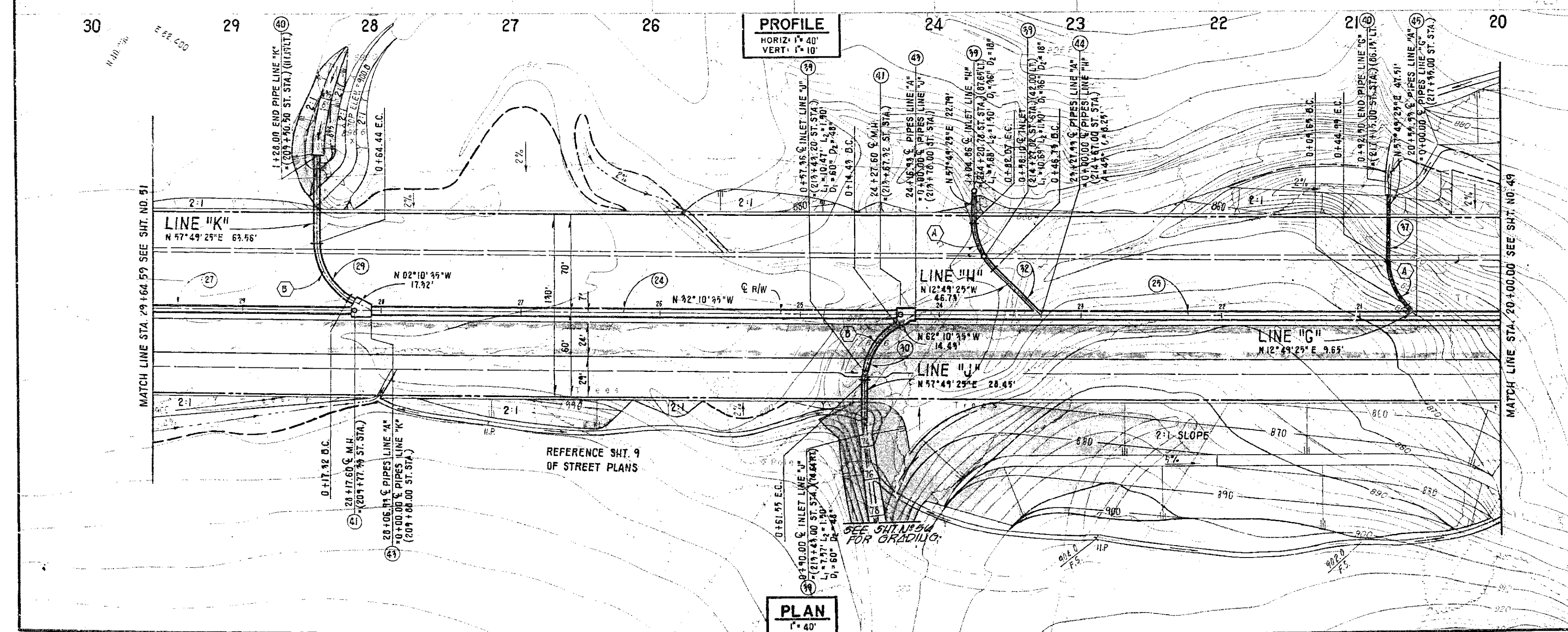
CURVE DATA				
NO.	Δ	R	L	T
(4)	45°00'00"	45.00'	35.94'	18.54'
(5)	60°00'00"	45.00'	47.12'	25.98'

**CONSTRUCTION NOTES**

- (24) CONST. 72" R.C.P. (950-D)
- (25) CONST. 72" R.C.P. (1200-D)
- (26) CONST. 60" R.C.P. (1100-D)
- (27) CONST. 54" R.C.P. (1000-D)
- (28) CONST. 48" R.C.P. (1200-D)
- (29) CONST. 40" R.C.P. (1250-D)
- (30) CONST. 18" R.C.P. (1750-D)
- (31) CONST. INLET TYPE I PER O.C.E.M.A. STD. NO. 305
- (32) CONST. RIP-RAP INLET STRUCTURE PER DETAIL, SHT. NO. 2
- (33) CONST. REINFORCED CONCRETE MANHOLE PER O.C.E.M.A. STD. NO. 503
- (34) CONST. JUNCTION STRUCTURE TYPE III PER O.C.E.M.A. STD. NO. 312
- (35) CONST. JUNCTION STRUCTURE TYPE IV PER O.C.E.M.A. STD. NO. 313
- (36) CONST. JUNCTION STRUCTURE TYPE VI PER O.C.E.M.A. STD. NO. 315

HYDRAULIC ELEMENTS CHART				
LINE	STATION	Q <sub>24</sub> (cfs)	VELOCITY (fpm)	
A	20+00.00 TO 20+99.99	650.8	35.9	▲
A	20+99.99 TO 24+27.99	691.3	36.1	▲
A	24+27.99 TO 24+16.99	626.4	36.1	▲
A	24+16.99 TO 28+06.99	552.1	37.0	▲
A	28+06.99 TO 29+64.59	316.3	31.2	▲
G	0+00.00 TO 0+92.50	15.8	14.3	
H	0+00.00 TO 0+58.10	41.8	8.9	
H	0+58.10 TO 1+04.86	40.3	8.2	
J	0+00.00 TO 0+57.96	112.3	8.9	
J	0+57.96 TO 0+90.00	108.9	8.7	
K	0+00.00 TO 1+28.00	190.0	27.4	

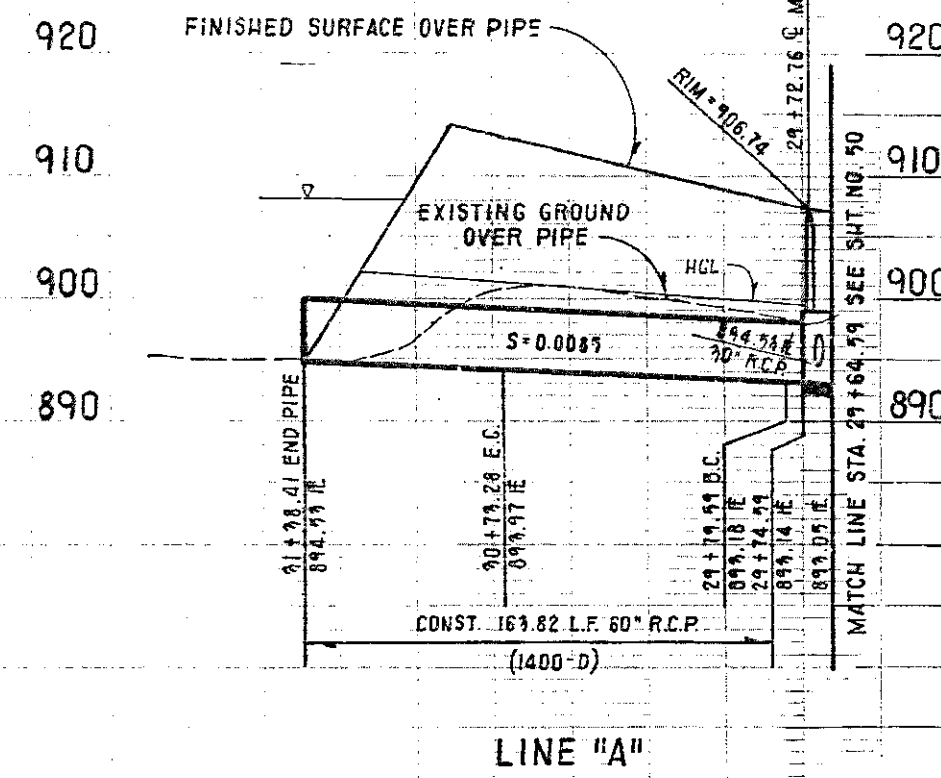
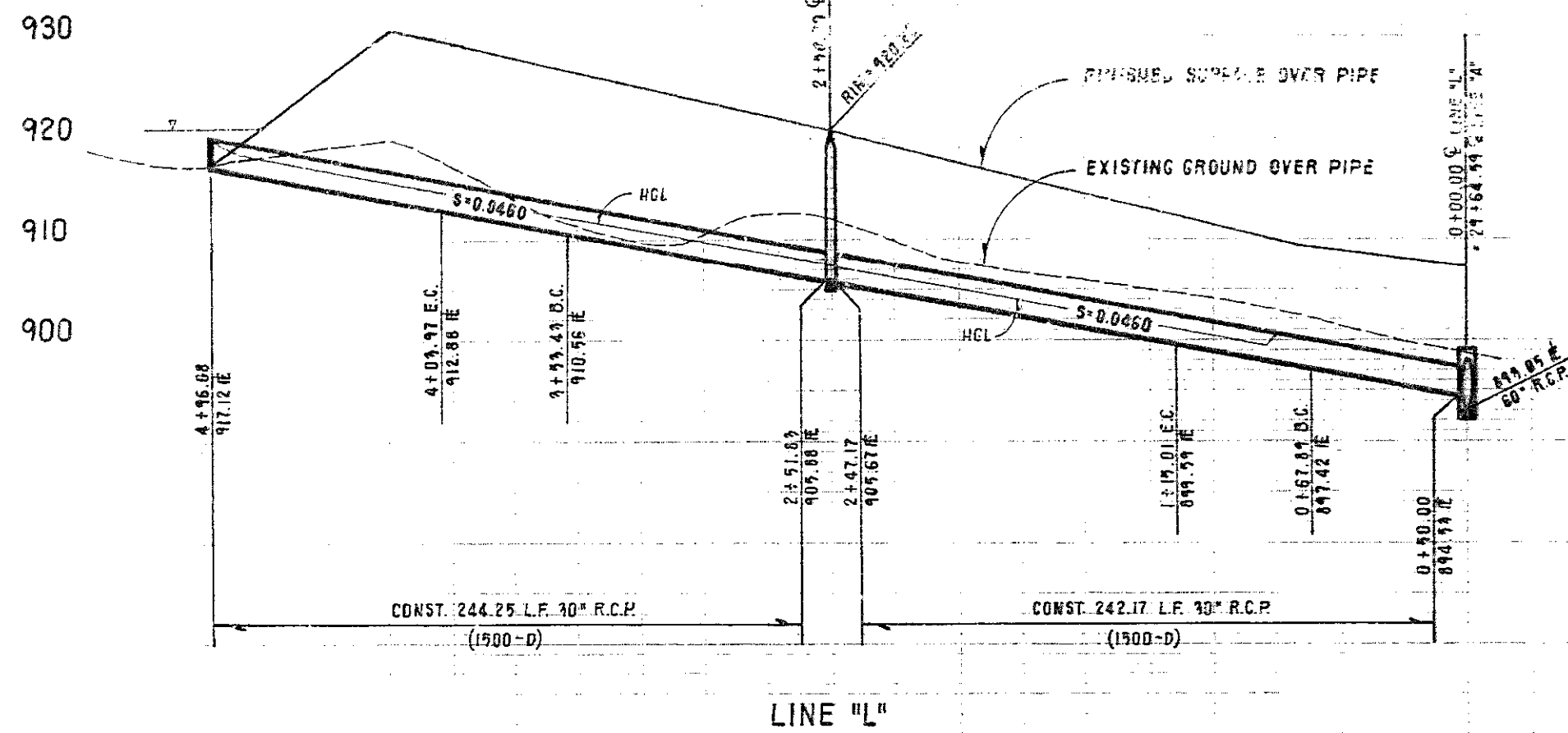
► FOR THESE LINES THE VELOCITY IN THE PIPE EXCEEDS 20 FEET PER SECOND. THEREFORE THERE SHALL BE AN ADDITIONAL 1/2 INCH COVER CONCRETE OVER STEEL WITH A MINIMUM 1/2 INCHES CLEAR CONCRETE OVER STEEL INSIDE FACE OF PIPE AT FLOWLINE. REF. O.C.F.C.D. DESIGN MANUAL SEC. I-F, PAGE 52, JULY 1972 EDITION.



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>PORTOLA PARKWAY STORM DRAIN</b>	
STA. 20+00 TO 29+64.59	
MARK DATE	DESCRIPTION
DESIGNED	REVISIONS
DRAWN	SCALE
CHECKED	DATE
AS SHOWN	APR. '82
SHEET 50 OF 57	DWG. NO.

DR. 20 (13847)

J.H.H. JOB NO. 2065



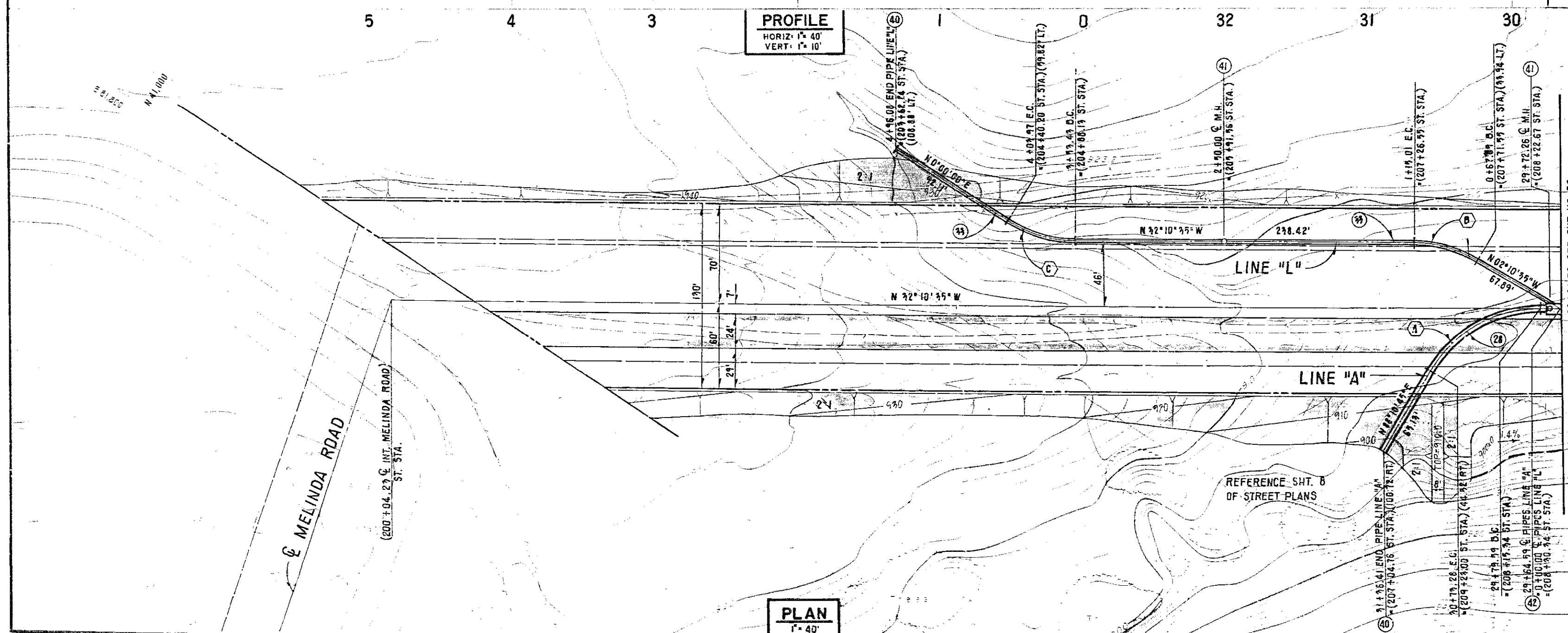
**BENCHMARK:** EL = 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL RD. BY A STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL HADLEY BOARD DES. 94H-14-77.

CURVE DATA				
NO.	L	R	L	T
(A)	59°33'21"	90.00'	99.69'	51.57'
(B)	90°00'00"	90.00'	47.12'	24.12'
(C)	92°10'35"	90.00'	50.54'	25.96'

### CONSTRUCTION NOTES

- (28) CONST. 60" R.C.P. (1400-D)
- (29) CONST. 30" R.C.P. (1500-D)
- (30) CONST. RIP-RAP INLET STRUCTURE PER DETAIL, SHT. NO. 2
- (41) CONST. REINFORCED CONCRETE MANHOLE PER D.C.E.M.A. STD. NO. 502
- (42) CONST. JUNCTION STRUCTURE TYPE II PER D.C.E.M.A. STD. NO. 311

HYDRAULIC ELEMENTS CHART				
LINE	STATION	$Q_{25}$ (cfs)	VELOCITY (fps)	
A	29+64.59 TO 31+38.41	348.0	17.7	
L	0+00.00 TO 4+95.08	45.9	18.2	



1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
<b>PORTOLA PARKWAY STORM DRAIN</b>	
STA. 29+64.59 TO 31+38.41	
MARK: DATE	DESCRIPTION
SUPERVISION OF <i>Lawrence R. Wleziem</i>	
LAWRENCE R. WLEZIEM R.C.E. 19359 DATE	
DESIGNED: I.D.T.	SCALE: DATE
DRAWN: S.K.W.	CHECKED: L.R.W.
AS SHOWN: APR. '82	DWG. NO.
SHEET 51 OF 57	

DR. 20 (13847)

J.H.H. JOB NO. 2065

BENCHMARK: EL. = 802.669 1976 ADJ.  
0.8 MI. E. OF MARGUERITE 300' N. OF D'WELL ROAD BY A STEEL  
TRANSMISSION TOWER MARKED 2014 ON THE S.W. LEG CONC POST  
EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE BOARD  
DES. 3HH-14-77.

CURVE DATA				
NO.	$\Delta$	R	L	T
(A)	2°25'17"	2800.00'	118.33	59.17'

CONSTRUCTION NOTES

- 34- CONST. 24" RCP (1000-D)  
39- CONST. INLET, TYPE II PER O.C.E.M.A.  
STD. # 305 & DETAIL SHEET N12 E  
47- CONST. EARTH CHANNEL WITH  
2:1 SIDE SLOPES, & RIP RAP PER DETAIL  
SHEET N02.

HYDRAULIC ELEMENTS CHART			
LINE	STATION	Q <sub>s</sub> (cfs)	VELOCITY (fps)
A-10	4+28.00 TO 5+00.00	14.8	4.7

**PROFILE**  
HORIZ: 1" = 40'  
VERT: 1" = 10'

060700Z FEB 68

**PLAN**  
1" = 60'

LINE "A-10"

REFERENCE: SHEET 13 OF STREET PLANS

1 1/2 0 1  
3 inches on original drawing

ORANGE COUNTY  
ENVIRONMENTAL MANAGEMENT AGENCY

ALICIA  
PARKWAY  
STORM DRAIN

MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	SHEET
REVISONS			LAWRENCE R. LAWRENCE R.C.E. 1955 DATE	52
DESIGNED	L.D.T.	SCALE	DATE	OF
DRAWN	S.K.W.	CHECKED	AS SHOWN	57

DR. 20 (13847)

J.H.H. JOB NR 2065



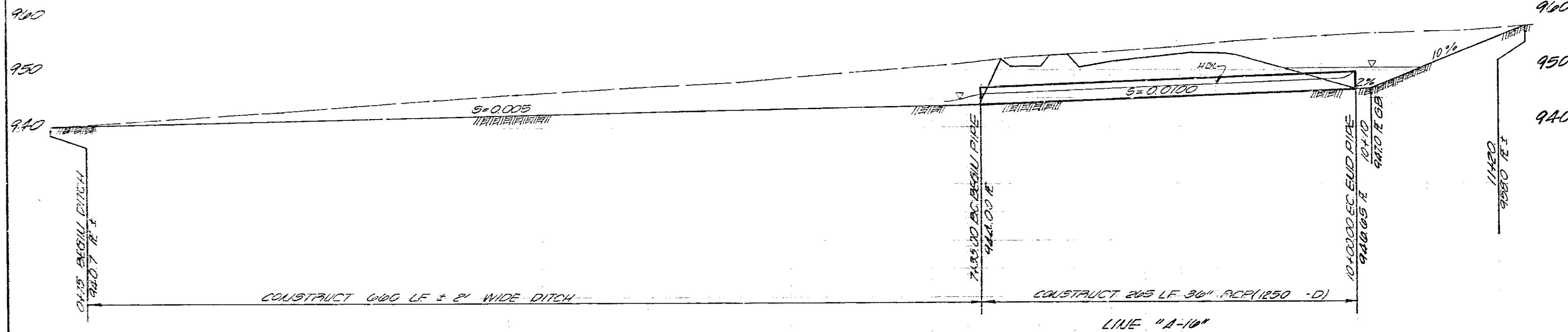
BENCHMARK: EL = 802.009 1974 ADJ.  
 0.8 MILE OF MARGUERITE 300' W OF  
 OILFIELD ROAD BY A STEEL TPAUSMISSION  
 TOWER MARKED 20' ON THE S.W. CORNER  
 POST EXPOSED 1" ABOVE GRAVILLI'S OF  
 STEEL PADDLE BOARD  
 DES 3/11/12-77

CURVE DATA				
LINE	Δ	P	L	T
(A)	18°30'30"	2100.00'	680.81'	343.62'
(B)	0°35'05"	2100.00'	241.35'	120.51'
(C)	5°03'40"	3000.00'	205.00'	138.59'

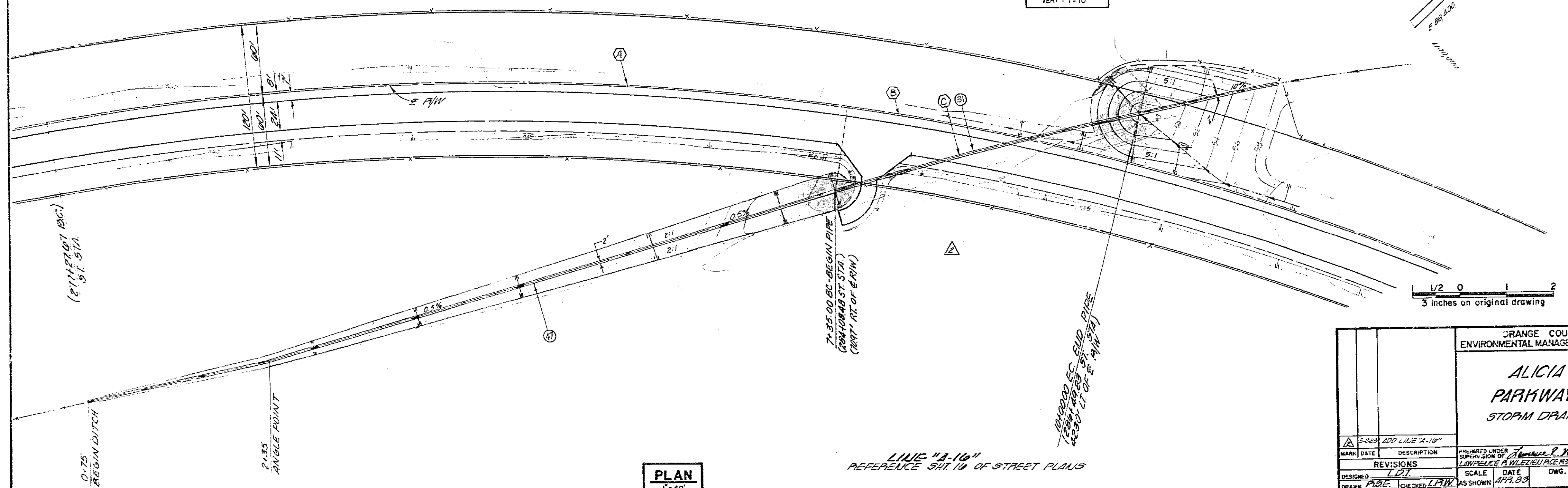
#### CONSTRUCTION NOTES

- (1) CONST 36" RCP (1250-L)
- (2) CONST EARTH CHANNEL WITH 2:1 SIDE SLOPES AND RIP RAP PER DETAIL SHIT 11-2, H=10', L=250'

HYDRAULIC ELEMENTS CHART			
LINE	STATION	CG (CFS)	VELOCITY (FPS)
A-10	8588.55 EC TO 8588.55 EC	415	100



PROFILE  
 HORIZ = 1" = 40'  
 VERT = 1" = 10'



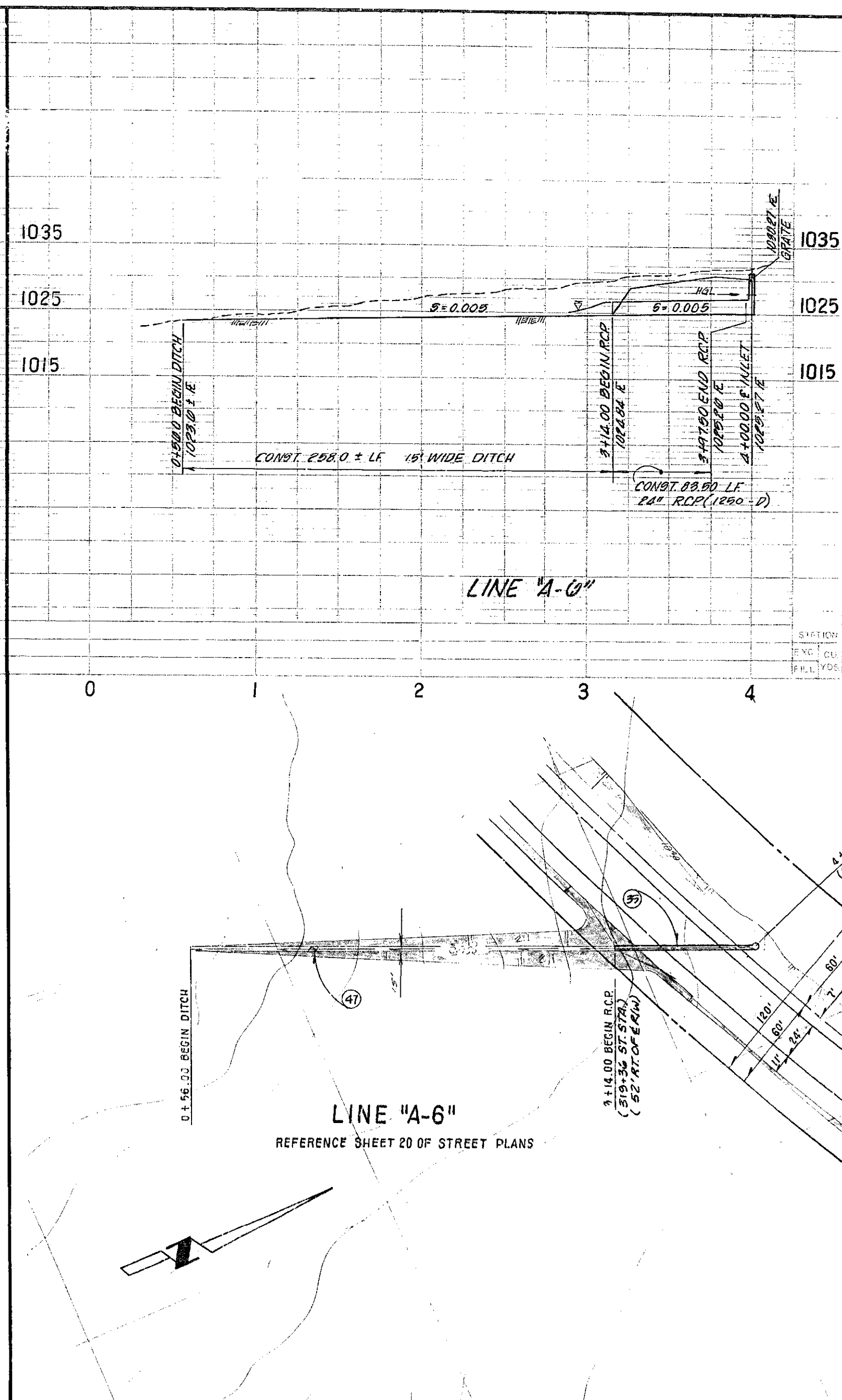
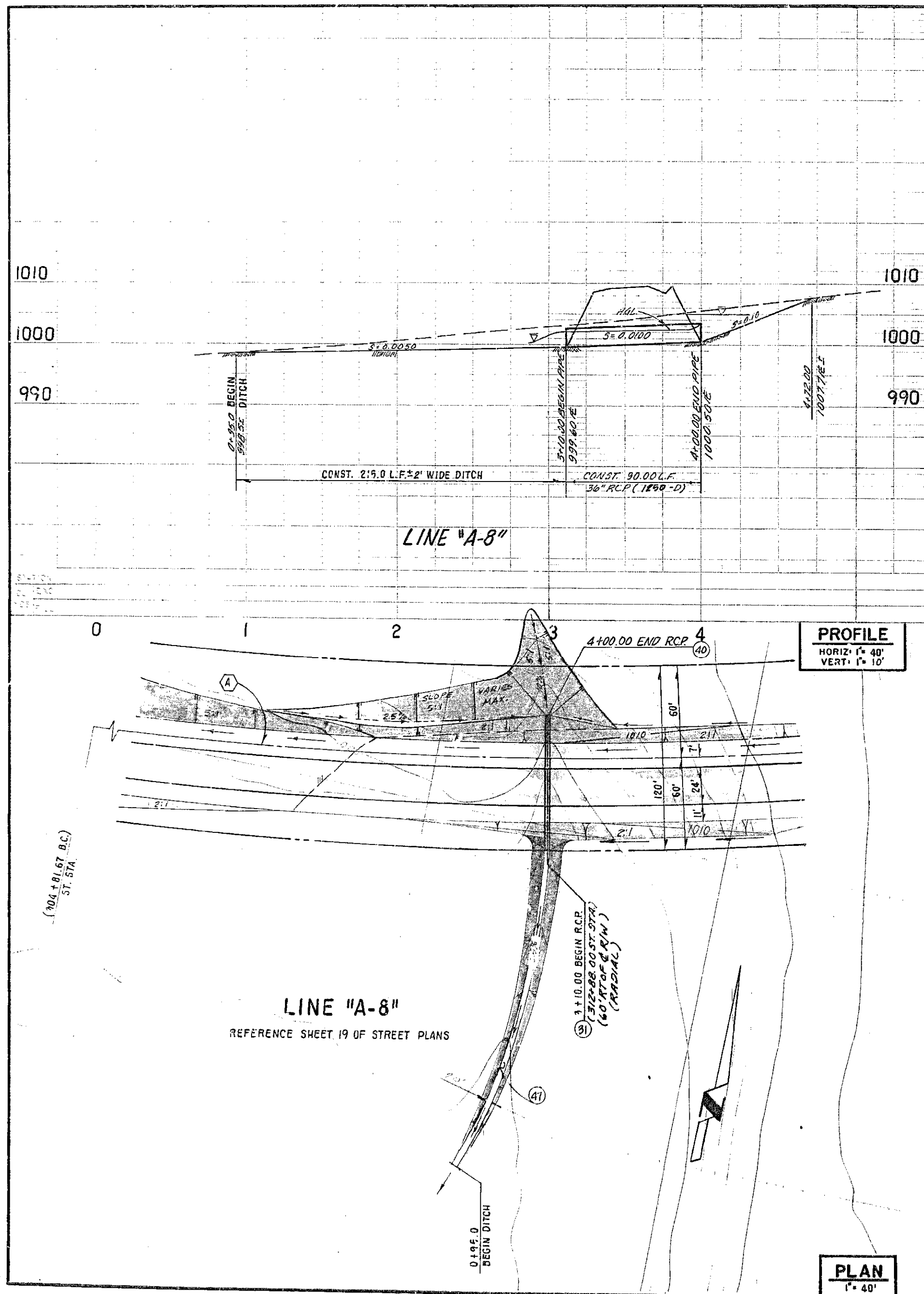
PLAN  
 1" = 40'

LINE "A-10"  
 REFERENCE SHIT 10 OF STREET PLANS

1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		ALICIA PARKWAY STORM DRAIN	
DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF	SHEET 52 A
DESIGNED LDT	SCALE AS SHOWN	DATE APR 03	DWG. NO. 57
DRAWN PBE	CHECKED LDT	JUL 10 10 3005	

DR.20 (13847)



**BENCHMARK:** EL. 892.669 1976 ADJ.  
0.8 MI. E. OF MARGUERITE 100' N. OF O'NEILL ROAD BY A STEEL TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST EXPOSED 1' ABOVE GROUND, 1' S. OF STEEL PADDLE BOARD. DES. 1/11-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	16° 29' 59"	2800.00'	806.99'	405.97'
(B)	15° 28' 39"	2800.00'	756.37'	380.50'

#### CONSTRUCTION NOTES

- (31) CONST. 36" RCP (1250-D)
- (32) CONST. 24" RCP (1250-D)
- (33) CONST. INLET TYPE 'I' PER O.C.E.M.A. STD. N° 308 & DETAIL SHEET N° 2
- (40) CONST. RIP-RAP INLET STRUCTURE PER DETAIL SH. N° 2.
- (41) CONST. EARTH CHAMNEL WITH 2:1 SIDE SLOPES, & RIP RAP PER DETAIL SHEET N° 2.

HYDRAULIC ELEMENTS CHART			
LINE	STATION	G <sub>s</sub> (cfs)	VELOCITY (fps)
A-6	1+14.00 TO 4+00.00	14.9	4.8
A-8	1+10.00 TO 4+00.00	61.0	10.7

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		ALICIA PARKWAY STORM DRAIN	
MARK	DATE	PREPARED UNDER SUPERVISION OF	SHEET
REVISIONS		LAWRENCE R. WLEZIEEN R.C.E. 19355	53
DESIGNED	L.D.T.	SCALE	DATE
DRAWN	S.K.W.	AS SHOWN	JAN. '82
CHECKED	L.R.W.	DWG. NO.	57

DR. 20 (13847) JHH JOB N° 2005

**BENCHMARK:** EL. + 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL ROAD BY A STEEL  
 TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC. POST  
 EXPOSED 1' ABOVE GROUND, 1" S. OF STEEL PADDLE BOARD.  
 DES. 344-14-77.

CURVE DATA				
NO.	Δ	R	L	T
(A)	19°54' 11"	2100.00'	729.49'	308.84'

# CONSTRUCTION NOTES

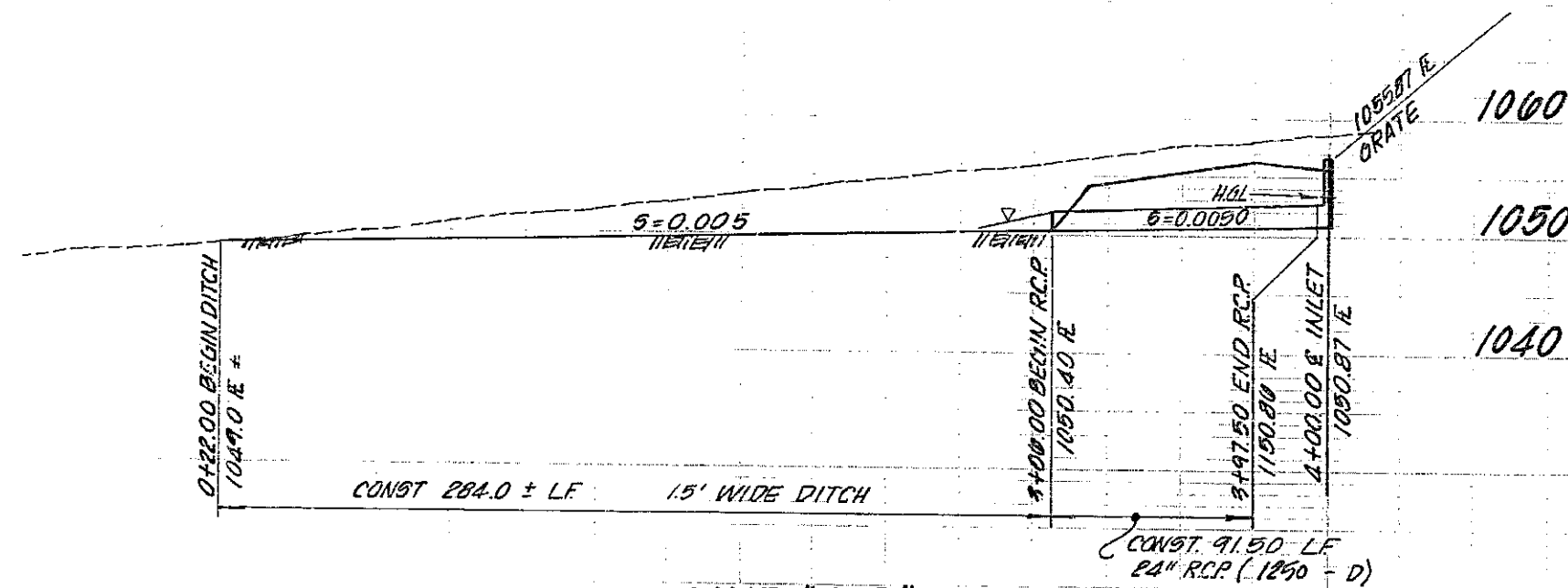
- 35) CONST. 24" R.C.P. (1250-D)
- 36) CONST. 24" R.C.P. (1500-D)
- 37) CONST. INLET TYPE "X" PER O.C.E.M.A. STD. NO. 309. & DETAIL SHEET N-2
- 41) CONST. EARTH CHANNEL WITH 2:1 SIDE SLOPES, & RIP RAP PER DETAIL SHEET N-2.

HYDRAULIC ELEMENTS CHART				
LINE	STATION	Q <sub>s</sub> (cfs)	VELOCITY (fps)	
A-4	1+90.00 TO 3+00.00	18.4	3.9	
A-5	3+06.00 TO 4+00.00	13.5	4.3	

1000

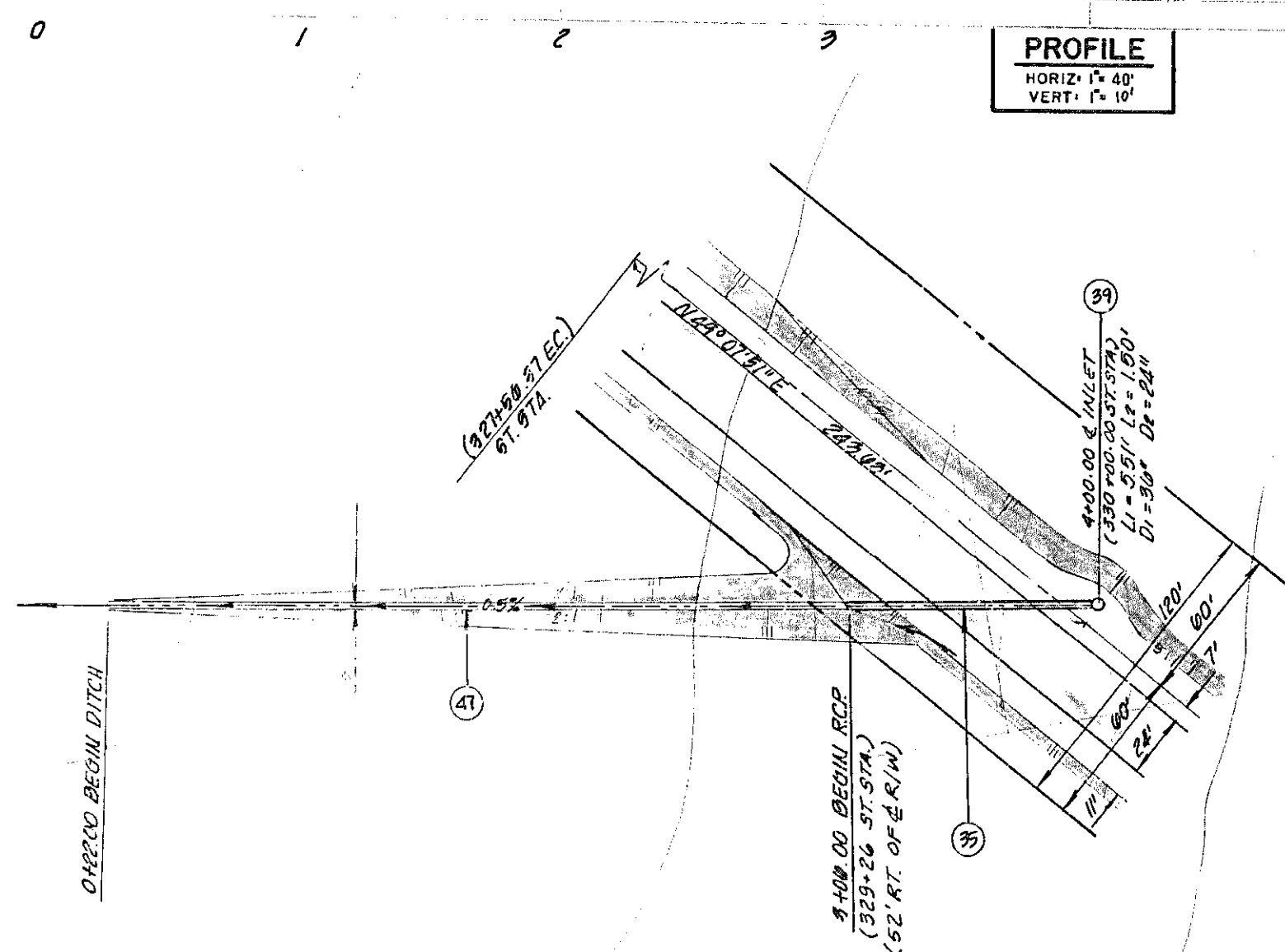
1050

1040



LINE "A-5"

**PROFILE**  
 HORIZ. 1" = 40'  
 VERT. 1" = 10'



LINE "A-5"

REFERENCE SH. 21 OF STREET PLAN

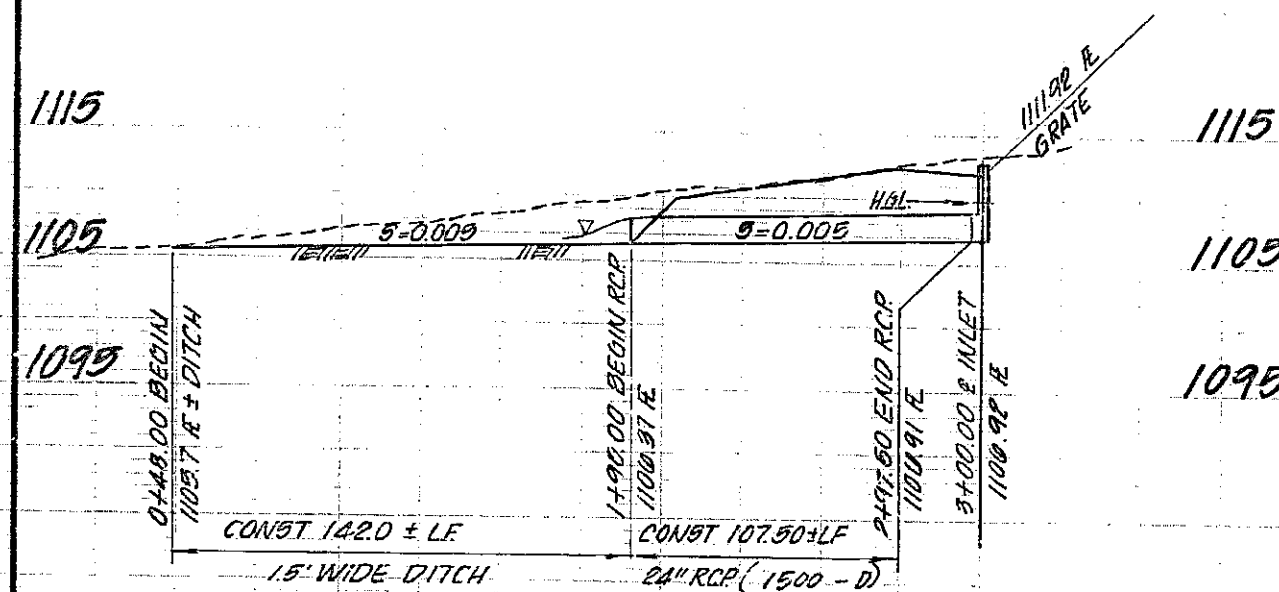
**PLAN**  
 1" = 40'

1115

1105

1095

1040

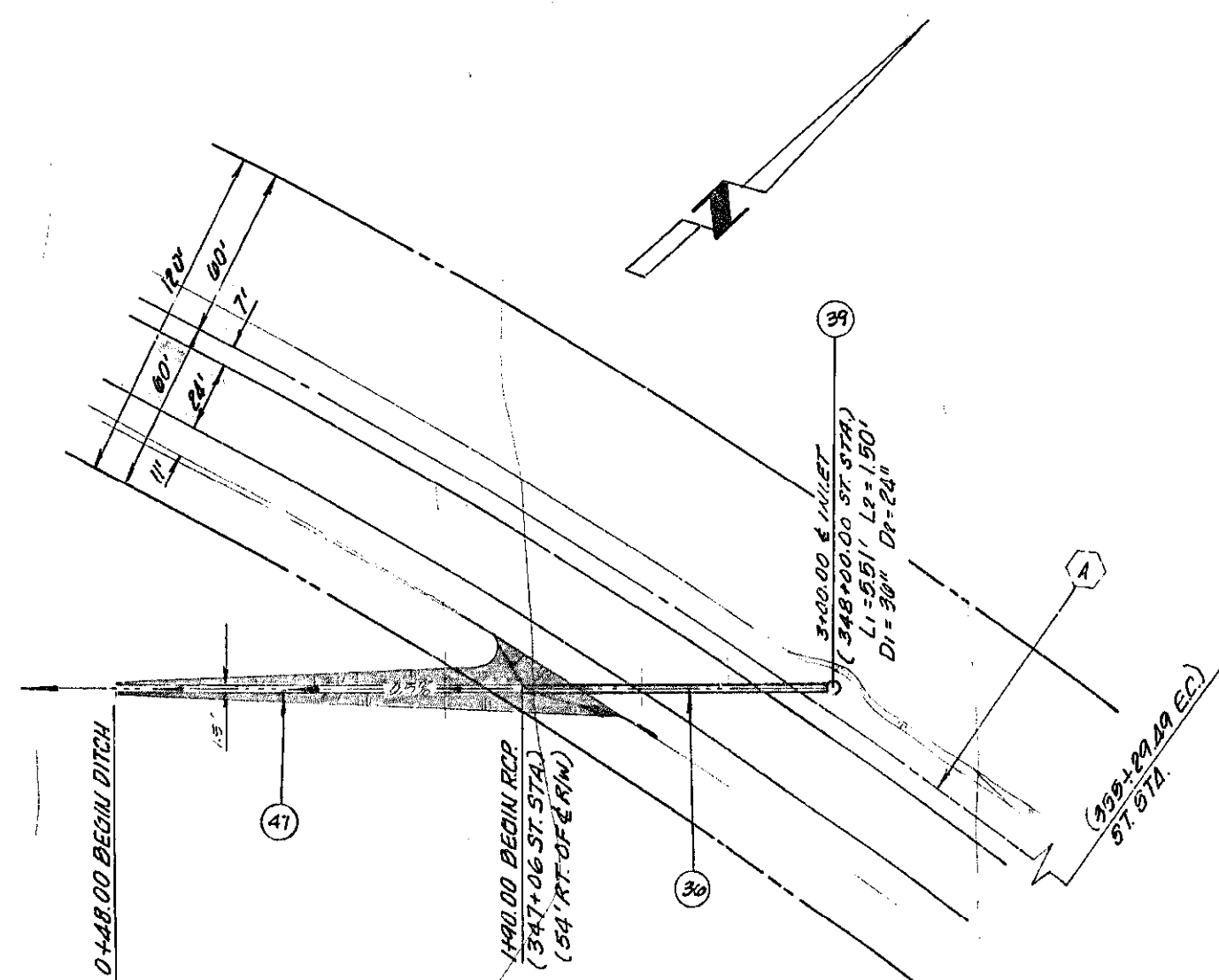


LINE "A-4"

1

2

3



LINE "A-4"

REFERENCE SH. 22 OF STREET PLAN

1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY				
ALICIA PARKWAY STORM DRAIN				
MARK	DATE	DESCRIPTION	PREPARED UNDER	SHEET
DESIGNED	L.D.T.	DATE	LAWRENCE R. WIEZIER R.C.E. 19355 DATE	54
DRAWN	R.D.E.	CHECKED	AS SHOWN	57

DR. 20 (13847)

JAN. '82



BENCHMARK: EL. = 802.669 1976 ADJ.  
 0.8 MI. E. OF MARGUERITE 300' N. OF O'NEILL ROAD BY A STEEL  
 TRANSMISSION TOWER MARKED 20/4 ON THE S.W. LEG CONC POST  
 EXPOSED 1' ABOVE GROUND, 7' S. OF STEEL PADDLE BOARD.  
 DES. 38H-14-77.

CURVE DATA				
NO	Δ	R	L	T
(A)	8°59'23"	2100.00'	329.49'	145.08'

#### CONSTRUCTION NOTES

- (23) - CONST. 8.3" RCP (1300-D)
- (39) - CONST. 24" RCP (1250-D)
- (39) - CONST. INLET TYPE I PER O.C.E.M.A. STD. N° 305 AND DETAIL SHT. N° 2
- (40) - CONST. RIP-RAP INLET STRUCTURE PER DETAIL, SHT. N° 2
- (41) - CONST. EARTH CHANNEL WITH 2:1 SIDE SLOPES, & RIP RAP PER DETAIL SHEET N° 2.

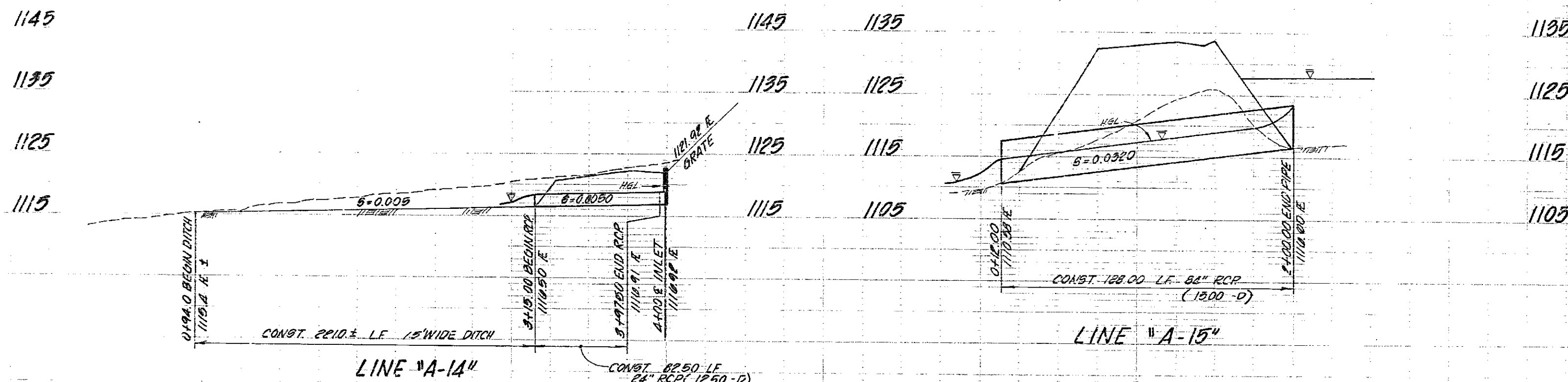
HYDRAULIC ELEMENTS CHART			
LINE	STATION	Q (cfs)	VELOCITY (fps)
A-14	3+15.00 TO 4+00.00	13.4 (Q <sub>2</sub> )	4.3
A-15	0+12.00 TO 2+00.00	579.4 (Q <sub>2</sub> )	29.7

▶ FOR THIS LINE THE VELOCITY IN THE PIPE EXCEEDS 20 PER SECOND. THEREFORE THERE SHALL BE AN ADDITIONAL 1/2 INCH COVER CONCRETE OVER STEEL WITH A MINIMUM 1 1/2 INCHES CLEAR CONCRETE OVER STEEL INSIDE FACE OF PIPE AT FLOWLINE. REF: O.C.F.C.D. DESIGN MANUAL SEC. 1-F PAGE 52 JULY 1972 EDITION.

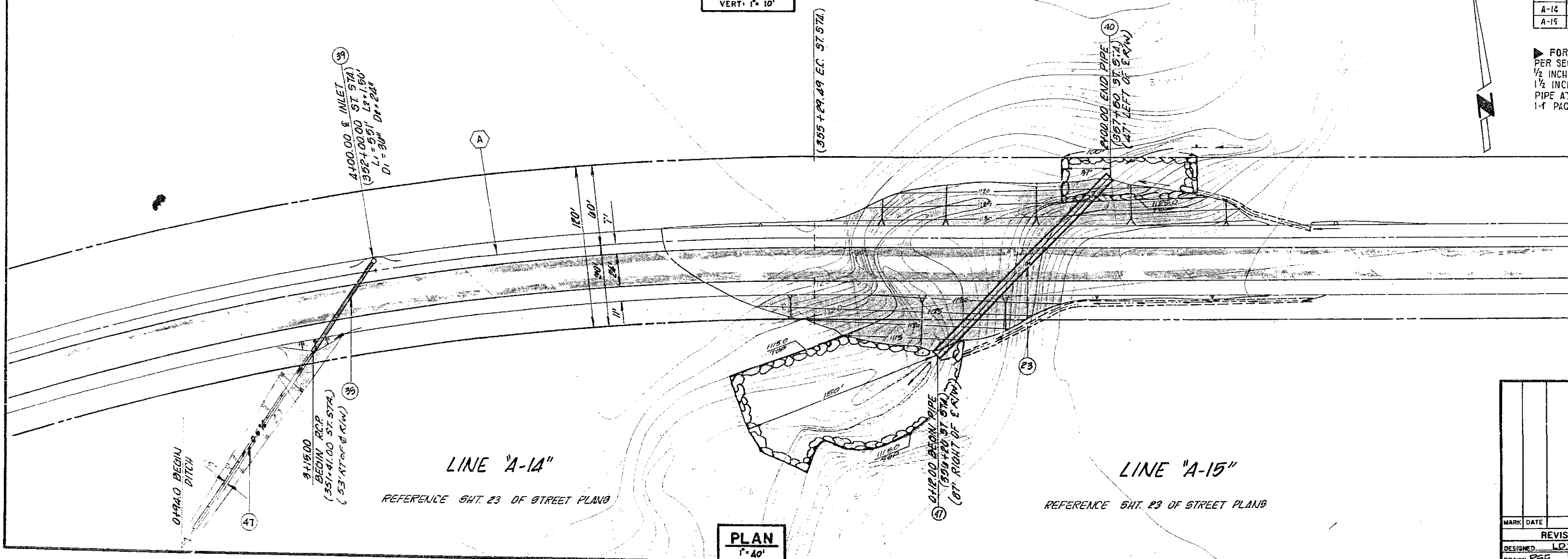
1 1/2 0 1 2  
 3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY		SHEET 55 OF 57	
ALICIA PARKWAY STORM DRAIN		DATE JAN 82	
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF LAWRENCE R. WLEZIEEN R.C.E. 1935 DATE
DESIGNED	LOT	SCALE	DATE
DRAWN	RSE	CHECKED	LRW
AS SHOWN		JAN 82	DWG. NO.

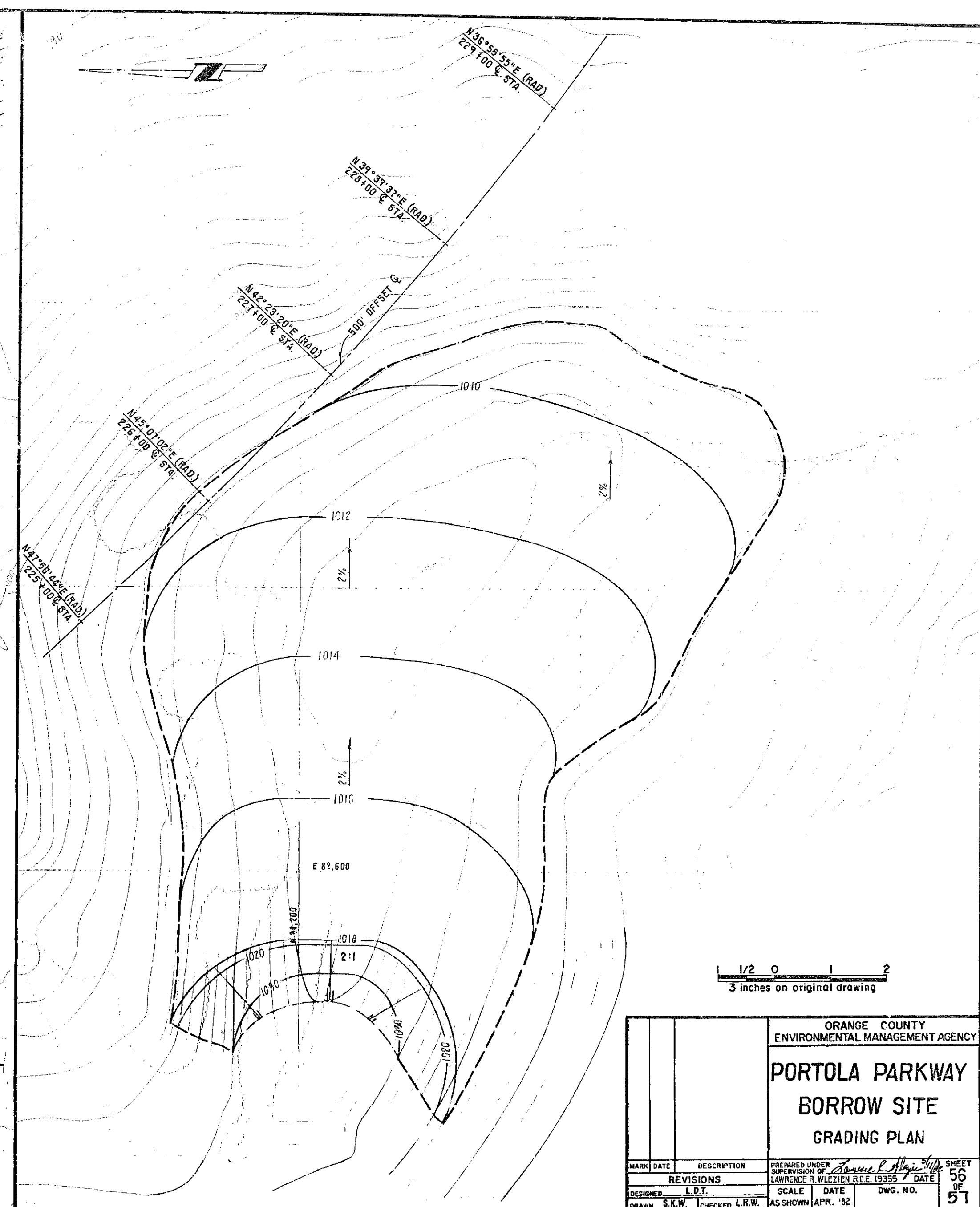
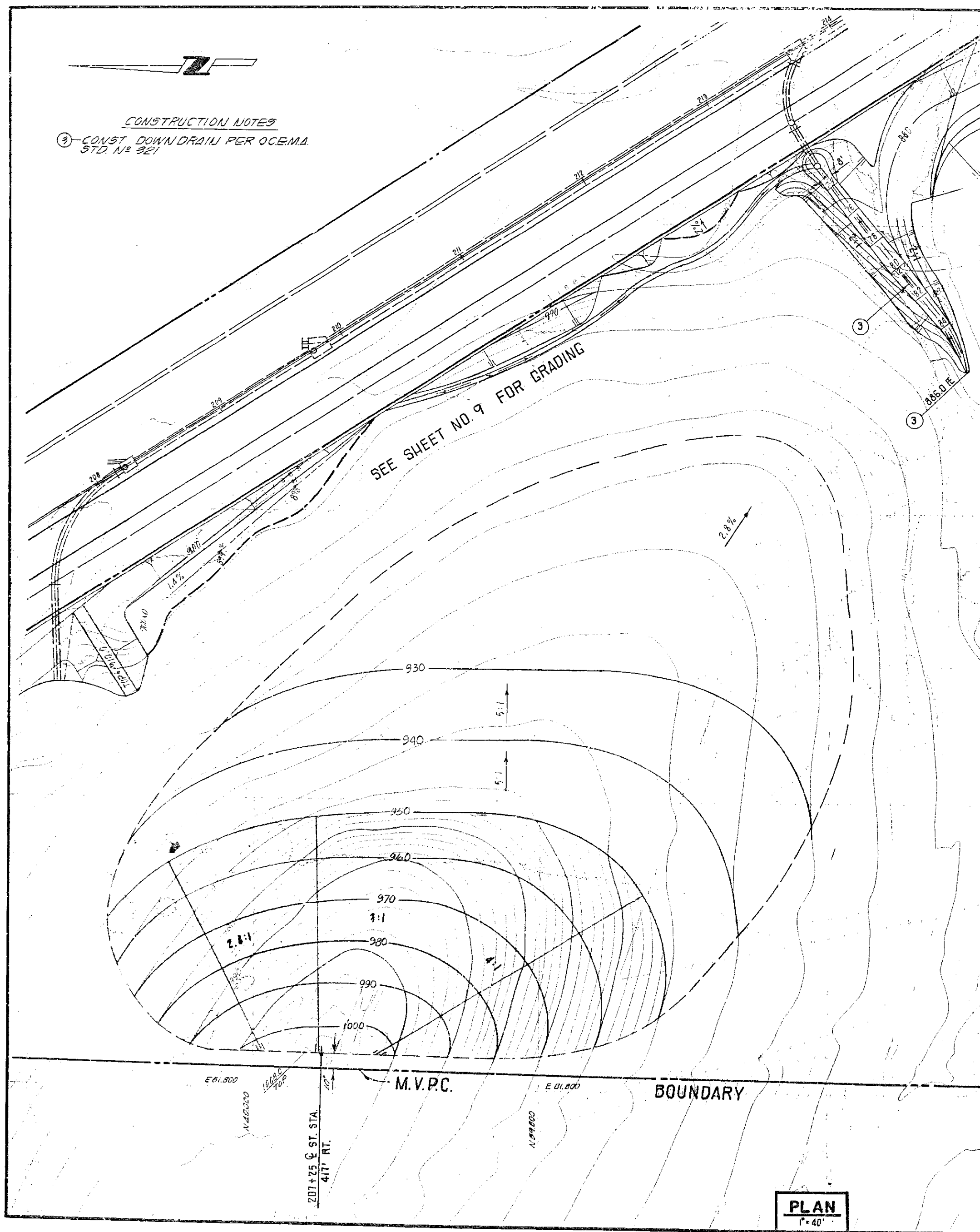
DR. 20 (13847) JHH JOB N° 2003



PROFILE  
 HORIZ. 1" = 40'  
 VERT. 1" = 10'

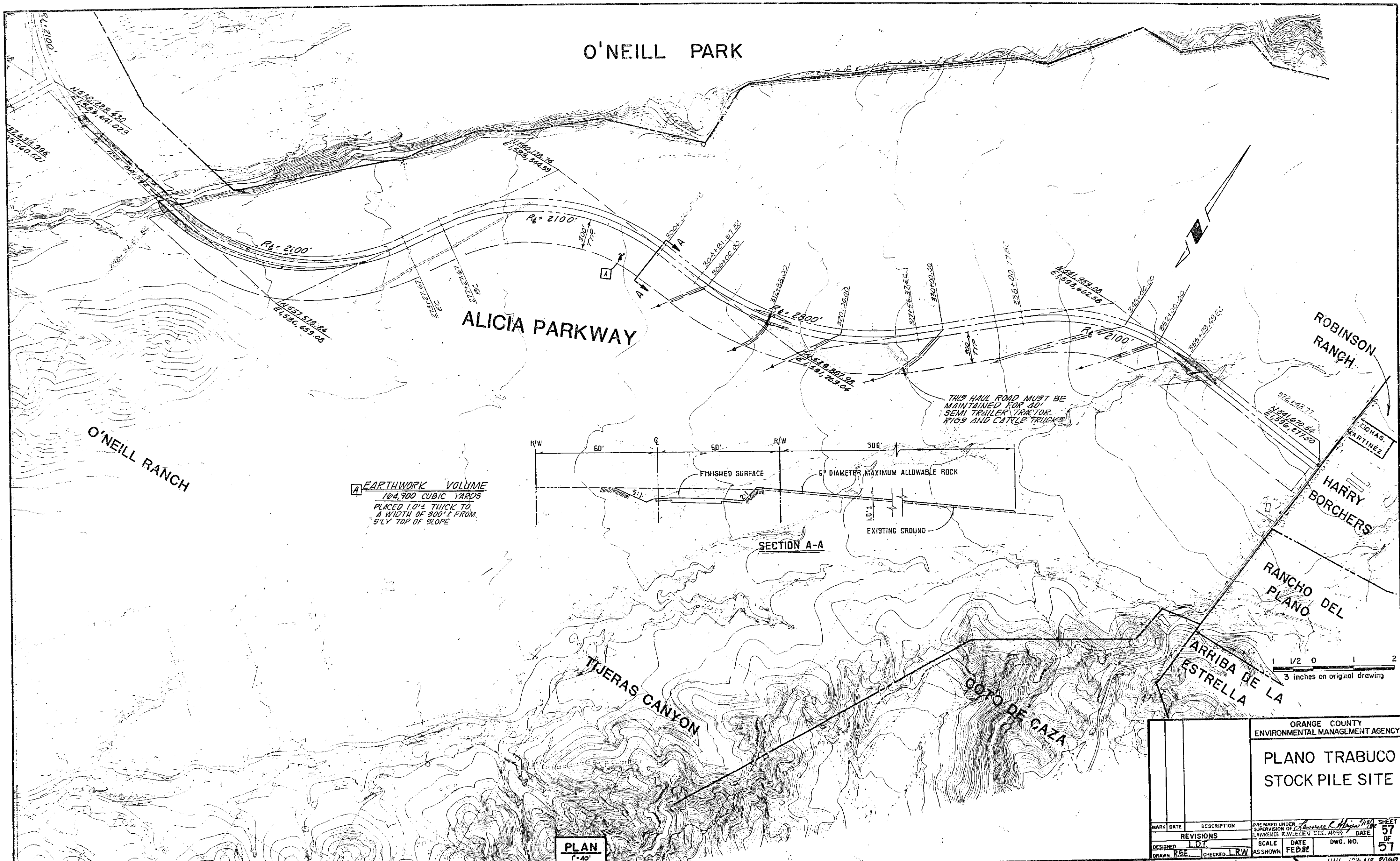


PLAN  
 1" = 40'



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PORTOLA PARKWAY BORROW SITE GRADING PLAN	
MARK DATE	DESCRIPTION
REVISIONS	
DESIGNED L.D.T.	PREPARED UNDER SUPERVISION OF LAWRENCE R. WIEZIER R.C.E. 19355
DRAWN S.K.W.	CHECKED L.R.W.
SCALE	DATE
AS SHOWN	APR. '82
DWG. NO.	SHEET
	56
	OF
	51

DR. 20 (13847) J.H.H. JOB NO. 2065



ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY	
PLANO TRABUCO STOCK PILE SITE	
MARK DATE	DESCRIPTION
DESIGNED L.D.T.	SCALE AS SHOWN
DRAWN R.D.E.	CHECKED L.R.W.
PREPARED UNDER SUPERVISION OF Lawrence R. Wileziu, C.E. 19499	DATE FEB. 82
DWG. NO.	SHEET 57 OF 57

DR. 20 (13847) JHH JRS N° 2009





**ROAD CRITERIA:**  
30' GRADED WIDTH  
200' MIN. C RADIUS  
3% MAX. GRADE 1% MIN. GRADE  
25 MPH. DESIGN SPEED  
1 1/2 : 1 CUT & FILL SLOPES

0 200 400 600  
3 inches on original drawing

ORANGE COUNTY ENVIRONMENTAL MANAGEMENT AGENCY			
<b>TEMPORARY ACCESS ROAD</b>			
MARK	DATE	DESCRIPTION	PREPARED UNDER SUPERVISION OF
REVISIONS			
DESIGNED	SCALE	DATE	DWG. NO.
DRAWN S.K.W.	CHECKED L.D.T.	AS SHOWN JUNE '82	
			SHEET 57A OF 57

DR. 20 (13847) J.H.M. JOB NO. 2065