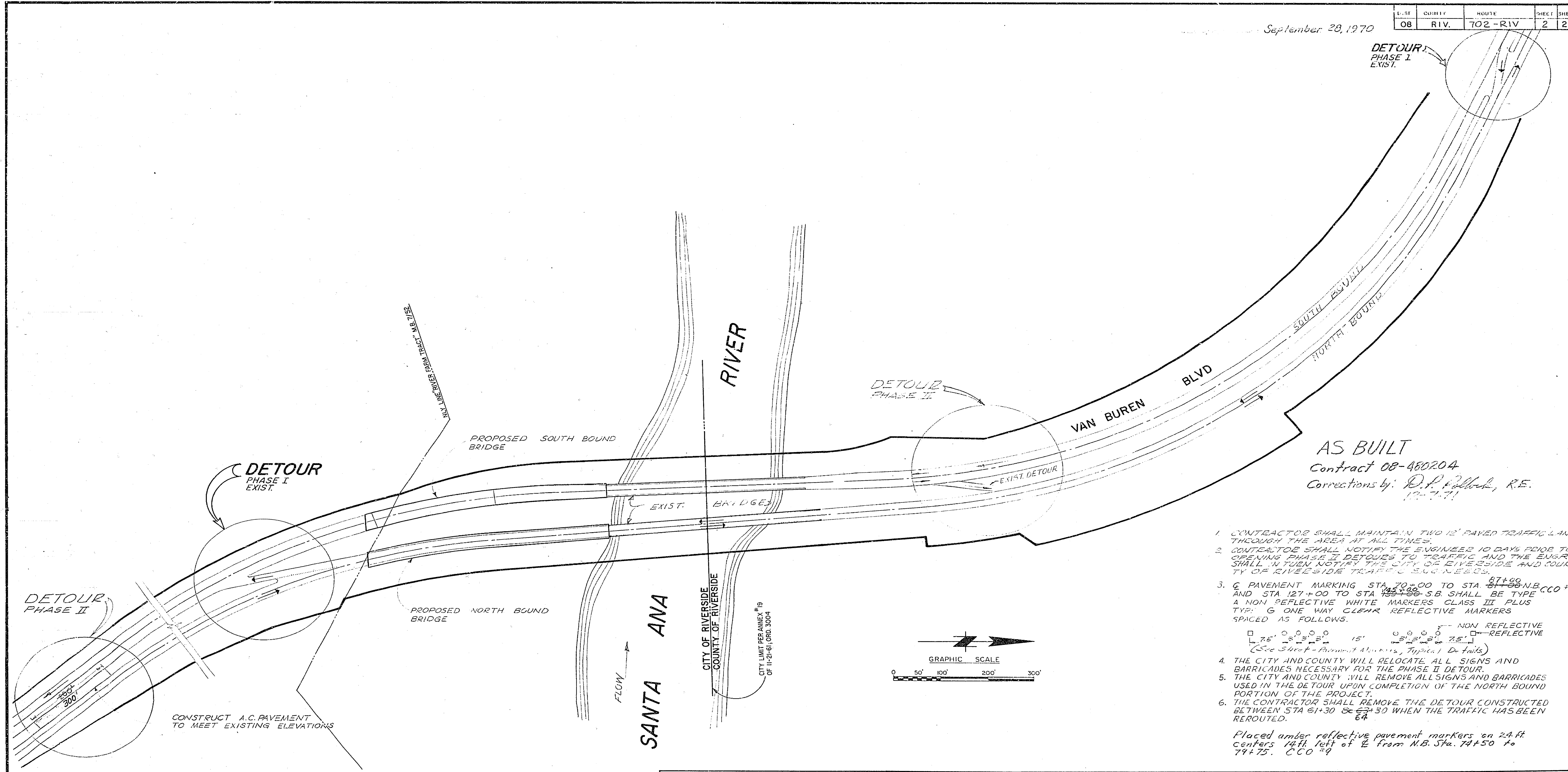


September 28, 1970

DETOUR PHASE I EXIST.



AS BUILT
 Contract 08-480204
 Corrections by: D.P. Follmer, R.E.
 12-7-71

1. CONTRACTOR SHALL MAINTAIN TWO 12' PAVED TRAFFIC LANES THROUGH THE AREA AT ALL TIMES.
 2. CONTRACTOR SHALL NOTIFY THE ENGINEER 10 DAYS PRIOR TO OPENING PHASE II DETOURS TO TRAFFIC AND THE ENGR. SHALL IN TURN NOTIFY THE CITY OF RIVERSIDE AND COUNTY OF RIVERSIDE TRAFFIC SIGNS NEEDS.
 3. G PAVEMENT MARKING STA. 70+00 TO STA. 87+50 N.B. CCO #9 AND STA. 127+00 TO STA. 145+00 S.B. SHALL BE TYPE A NON REFLECTIVE WHITE MARKERS CLASS III PLUS TYP. G ONE WAY CLEAR REFLECTIVE MARKERS SPACED AS FOLLOWS.

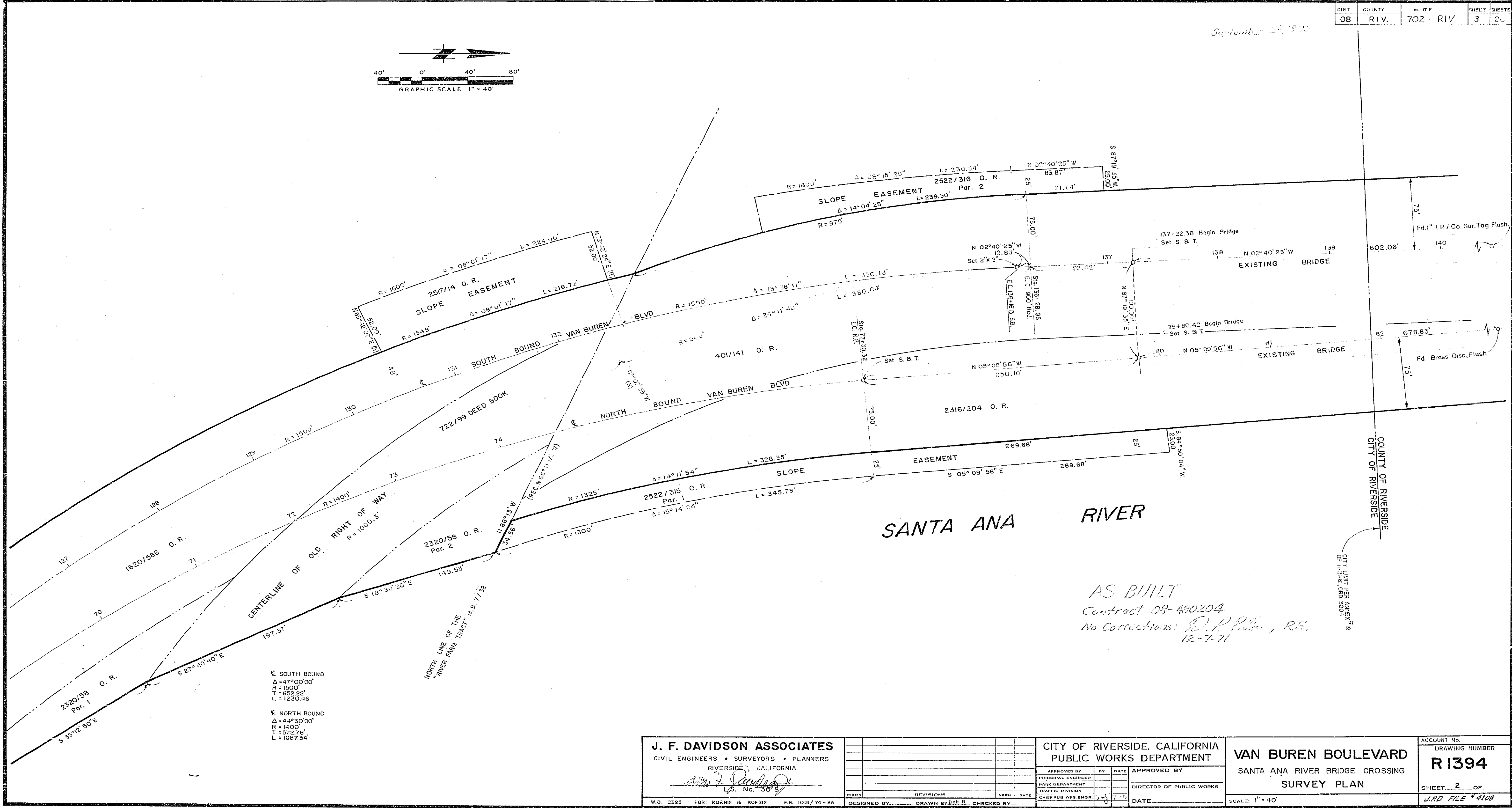
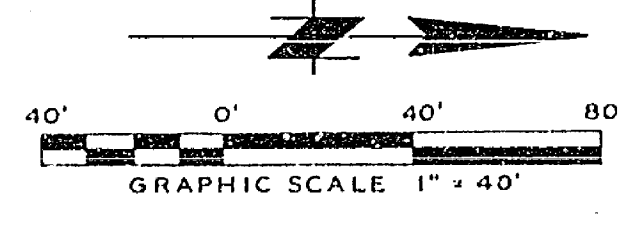
7.5'	3' 0" 3' 0" 3' 0"	15'	3' 0" 3' 0" 3' 0"	7.5'	REFLECTIVE
<small>(See Sheet - Pavement Allowance, Typical Details)</small>					
 4. THE CITY AND COUNTY WILL RELOCATE ALL SIGNS AND BARRICADES NECESSARY FOR THE PHASE II DETOUR.
 5. THE CITY AND COUNTY WILL REMOVE ALL SIGNS AND BARRICADES USED IN THE DETOUR UPON COMPLETION OF THE NORTH BOUND PORTION OF THE PROJECT.
 6. THE CONTRACTOR SHALL REMOVE THE DETOUR CONSTRUCTED BETWEEN STA 61+30 & 63+30 WHEN THE TRAFFIC HAS BEEN REROUTED.
- Placed amber reflective pavement markers on 24 ft centers 14 ft left of E from N.B. Sta. 74+50 to 74+75. CCO #9

2

JOHNSON & NIELSEN ASSOCIATES KOEBIG & KOEBIG INC. RIVERSIDE, CALIFORNIA <i>Approved</i> R.C.E. NO. 9424	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		VAN BUREN BOULEVARD SANTA ANA RIVER BRIDGE CROSSING DETOUR PLAN		PROJECT NO. R1394
	DESIGNED BY: A.B.T. DRAWN BY: A.G. CHECKED BY: A.M.	APPROVED BY: [Signature] OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	APPROVED BY: [Signature] DIRECTOR OF PUBLIC WORKS	DATE: 7-13-70	SHEET 1 OF 2 FILE NO.

DIST	COUNTY	NO. OF SHEETS	SHEET	SHEETS
08	RIV.	702 - RIV	3	26

September 24, 1980



AS BUILT
 Contract 08-480204
 No Corrections: R.P. [Signature], R.E.
 12-7-71

☉ SOUTH BOUND
 $\Delta = 47^{\circ}00'00''$
 $R = 1500'$
 $T = 652.22'$
 $L = 1235.46'$

☉ NORTH BOUND
 $\Delta = 44^{\circ}30'00''$
 $R = 1400'$
 $T = 572.76'$
 $L = 1087.34'$

J. F. DAVIDSON ASSOCIATES
 CIVIL ENGINEERS • SURVEYORS • PLANNERS
 RIVERSIDE, CALIFORNIA
J. F. Davidson
 L.S. No. 3033

MARK	REVISIONS	APPR.	DATE

CITY OF RIVERSIDE, CALIFORNIA PUBLIC WORKS DEPARTMENT	
APPROVED BY	DATE
PRINCIPAL ENGINEER	
PARK DEPARTMENT	
TRAFFIC DIVISION	
CHIEF PUB. WKS ENGR.	

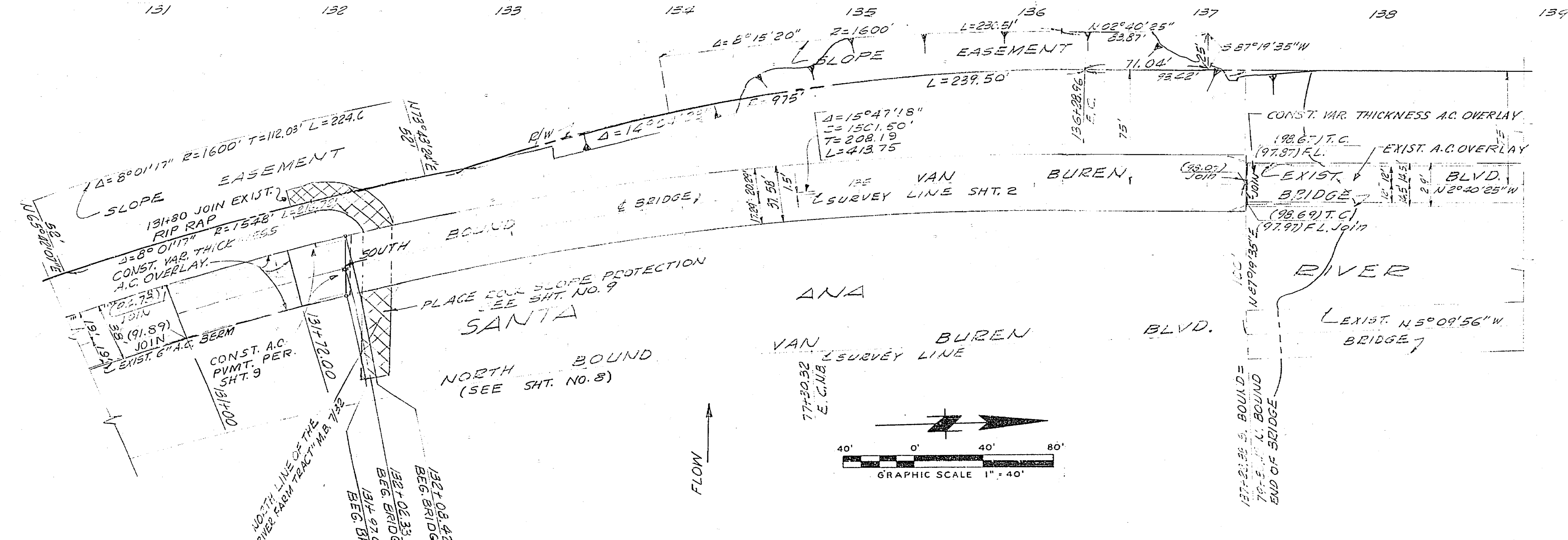
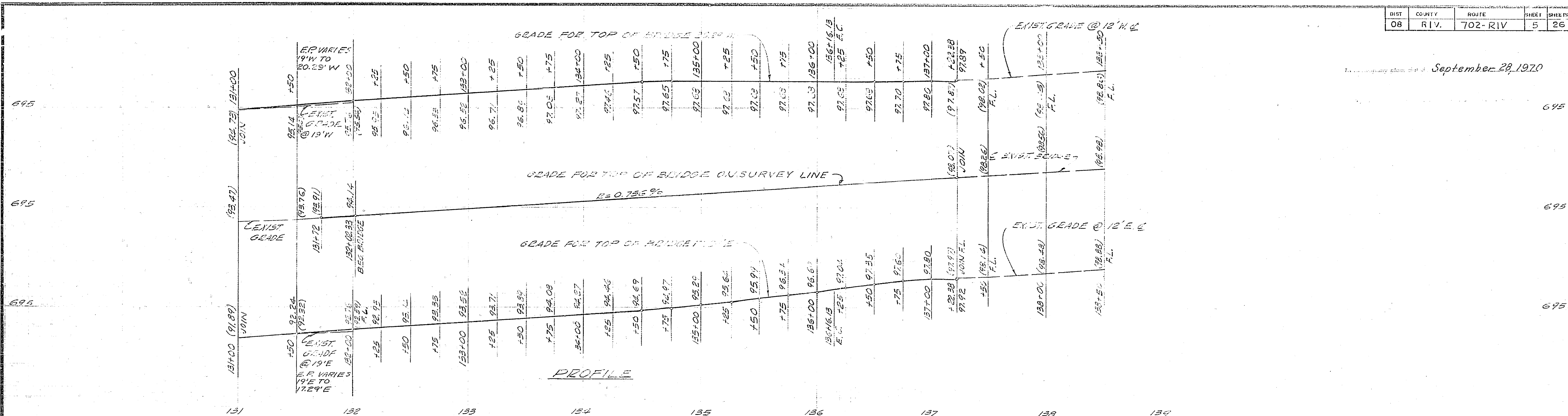
VAN BUREN BOULEVARD
 SANTA ANA RIVER BRIDGE CROSSING
 SURVEY PLAN

ACCOUNT No.	DRAWING NUMBER
	R1394
SHEET 2 OF	J.F.D. FILE # 4108

W.O. 2393 FOR: KOEBIG & KOEBIG F.B. 1016/74-85 DESIGNED BY: DRAWN BY: BOB D. CHECKED BY: SCALE: 1" = 40'

3

September 28, 1970

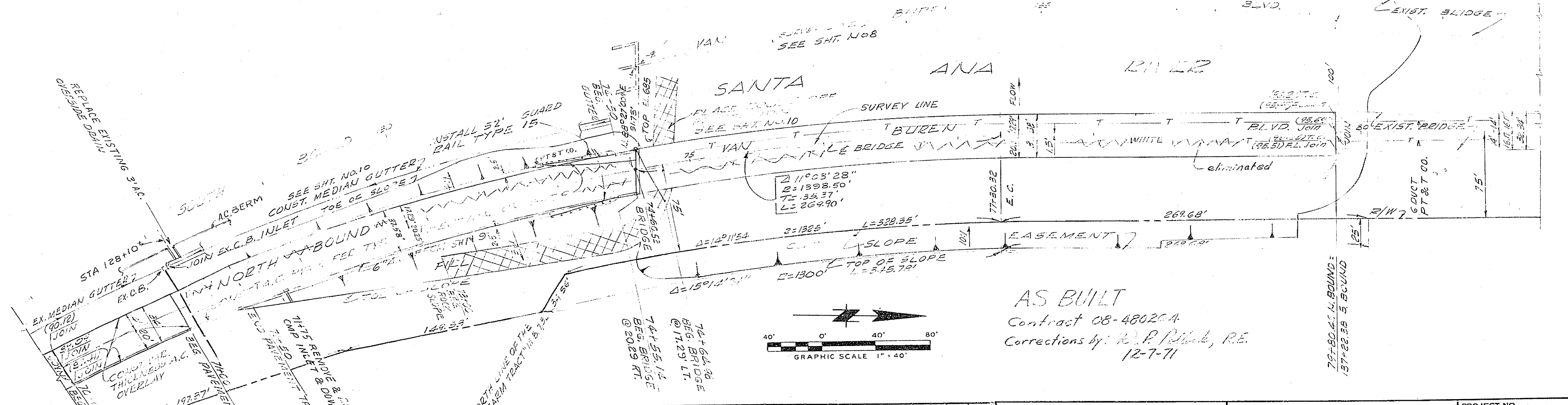
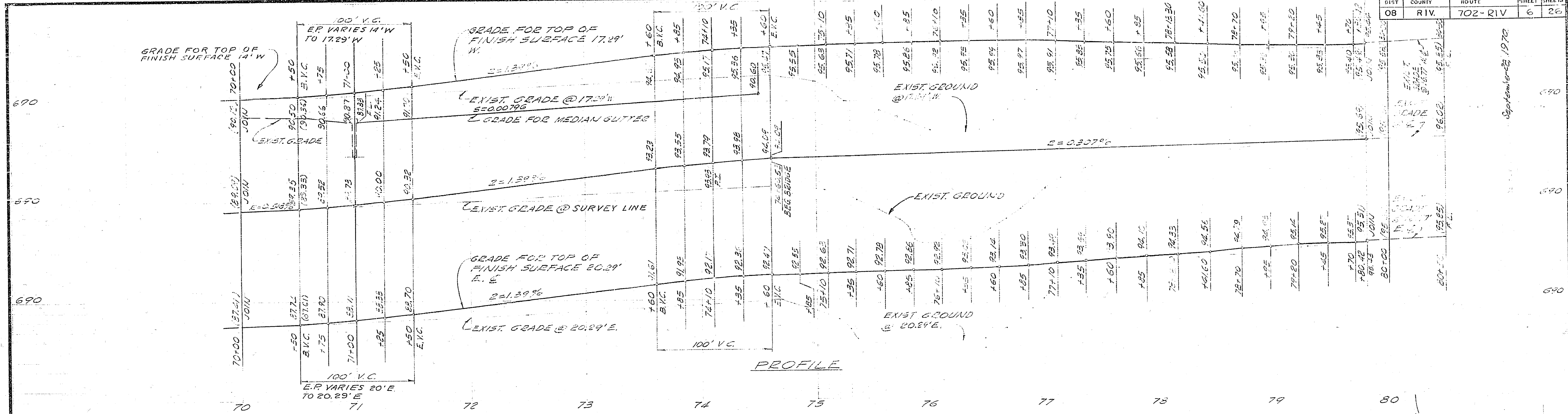


NOTES:
 6" A.C. BEEM TO BE REPLACED:
 STA. 128+00 TO STA. 129+00,
 STA. 130+00 TO STA. 131+80
 SEE SHT 9

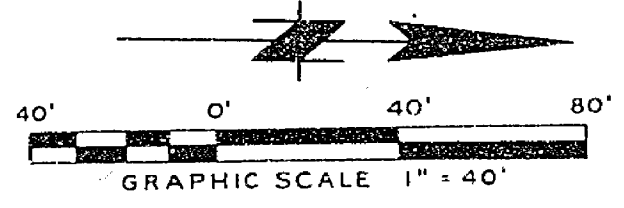
AS BUILT
 Contract 08-480204
 No Corrections: *D.J. Peltok, R.E.*
 12-7-71

JOHNSON & NIELSEN ASSOCIATES KOEBIG & KOEBIG INC. RIVERSIDE, CALIFORNIA <i>D.J. Peltok</i> R.C.E. NO. 9424	<table border="1"> <tr> <th>MARK</th> <th>REVISIONS</th> <th>APPR.</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	MARK	REVISIONS	APPR.	DATE					CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS APPROVED BY: <i>[Signature]</i> BY: DATE: 7-10-70 OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENG.	VAN BUREN BOULEVARD SANTA ANA RIVER BRIDGE CROSSING PLAN & PROFILE SOUTH BOUND LANE HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4' PROJECT NO. R1394 SHEET 7 OF FILE NO.
		MARK	REVISIONS	APPR.	DATE						
DESIGNED BY: A.R.T. DRAWN BY: A.G. CHECKED BY: A.M.											

September 22, 1970



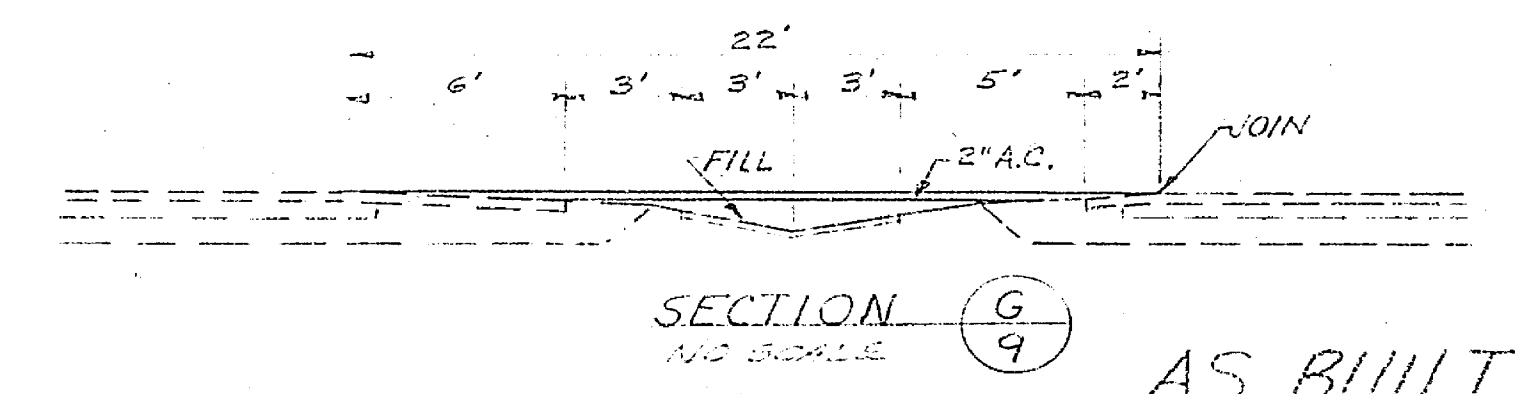
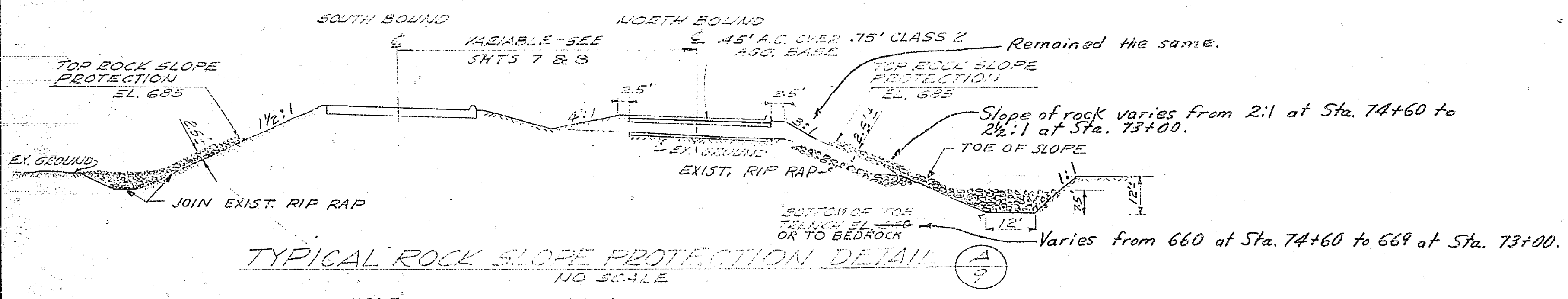
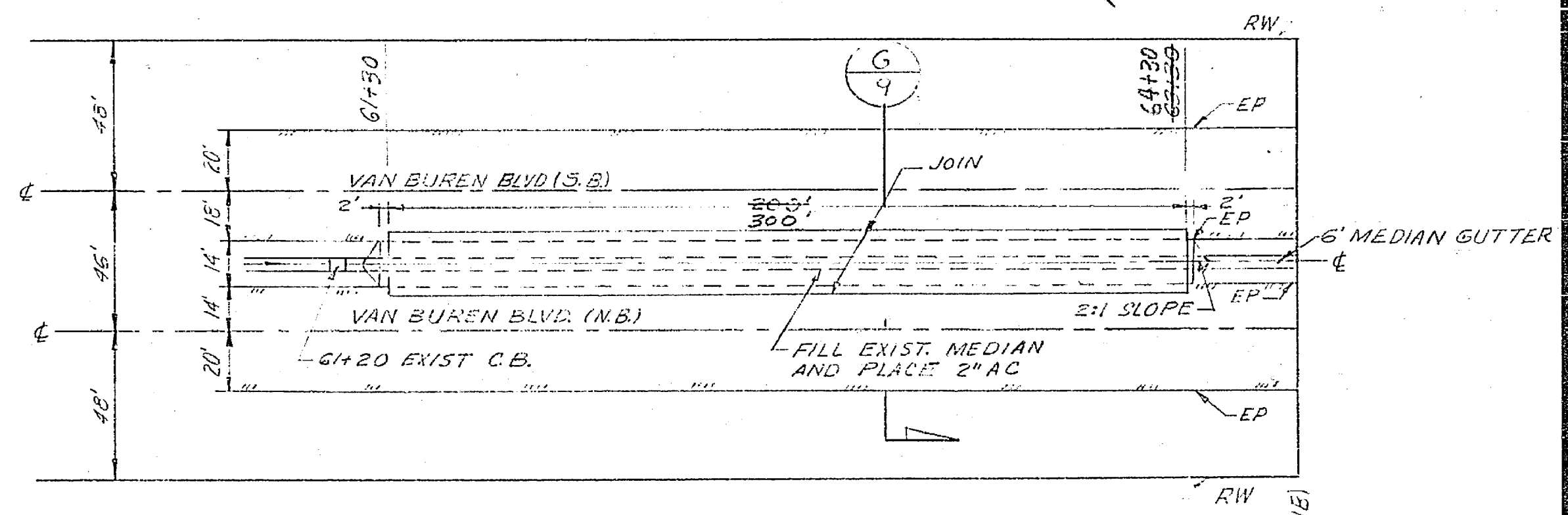
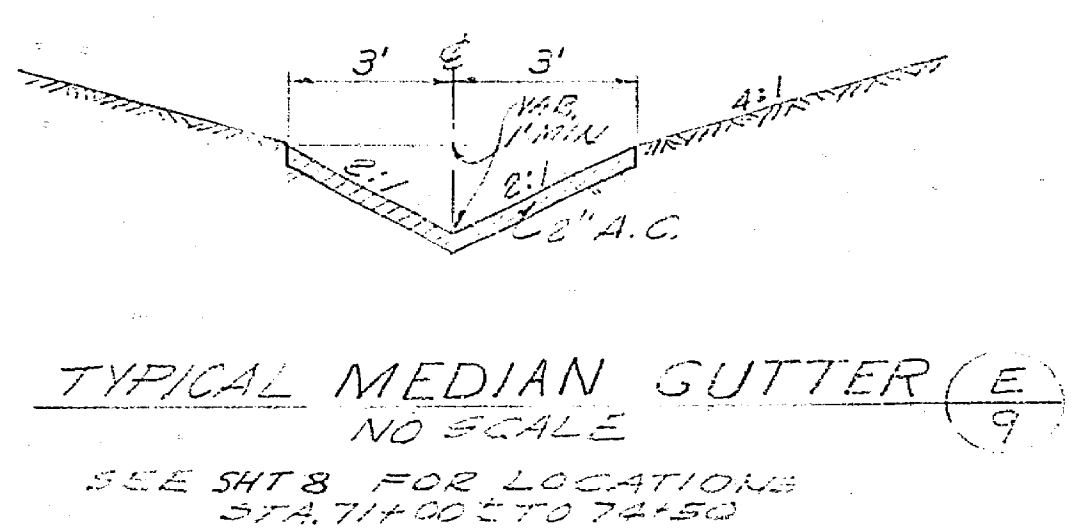
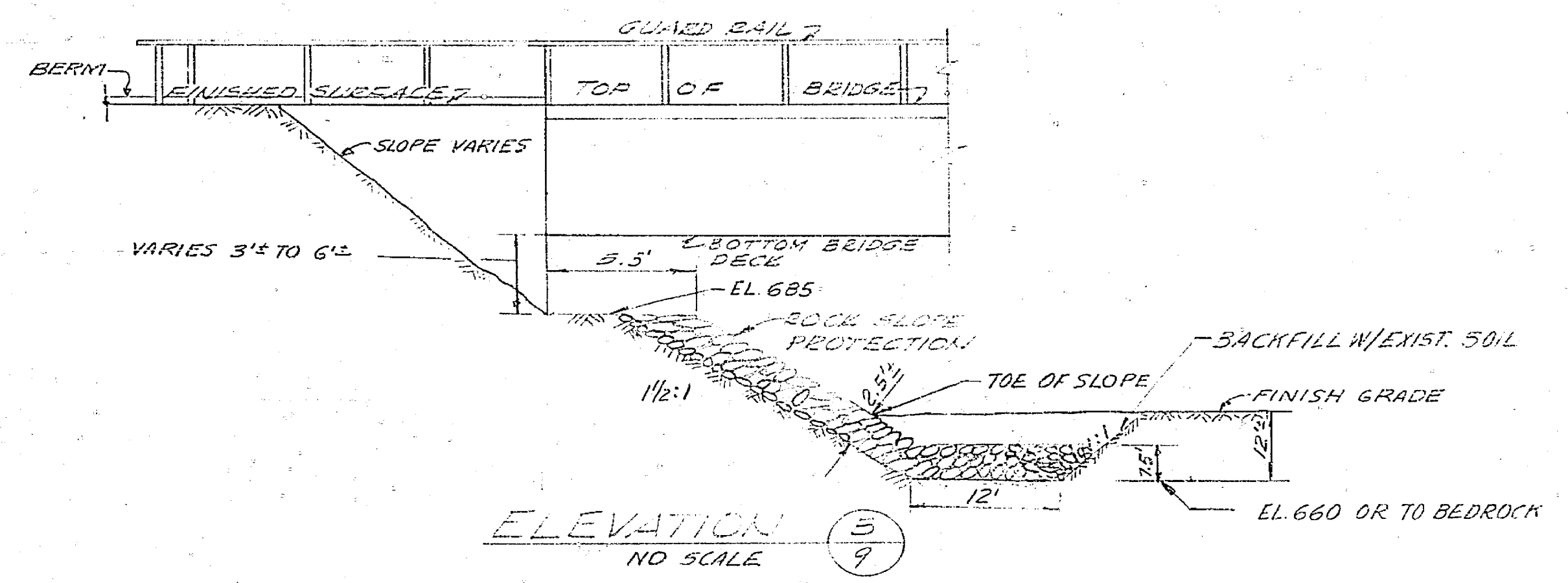
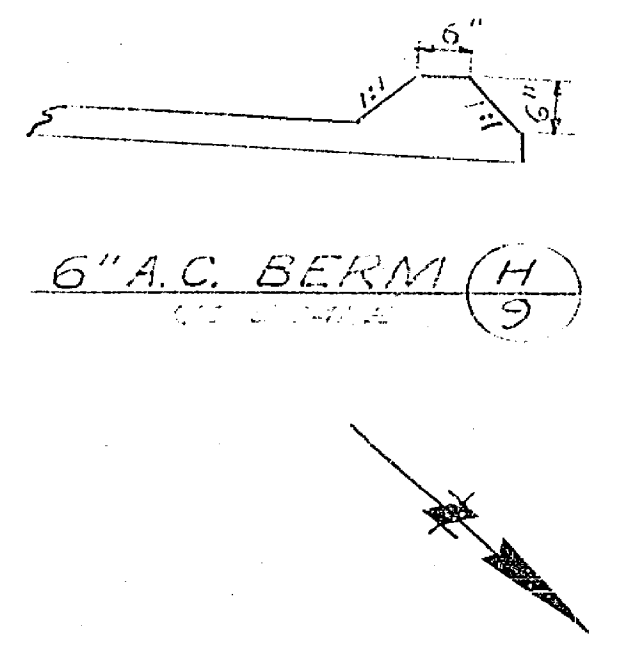
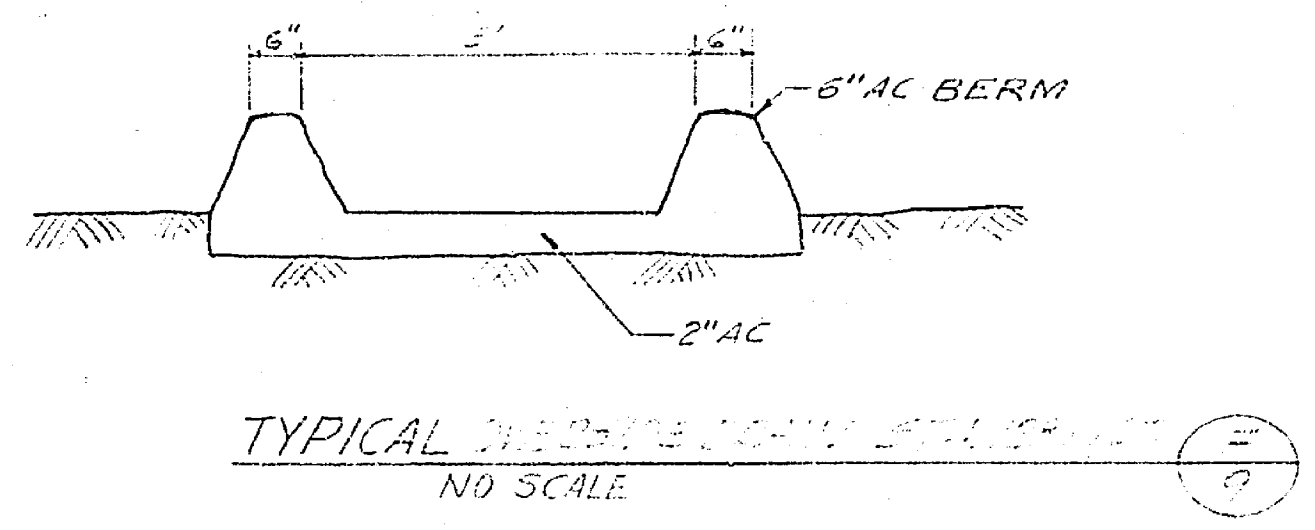
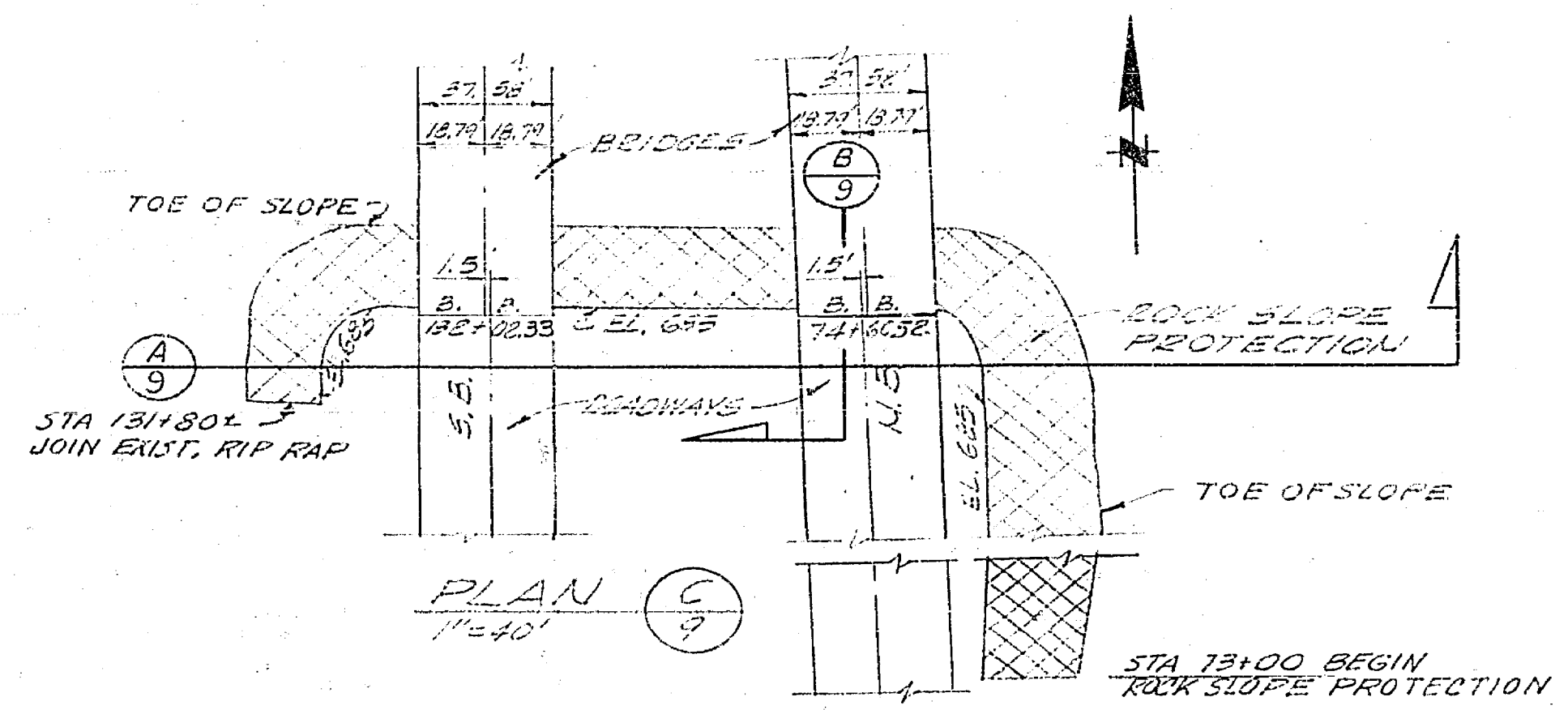
AS BUILT
 Contract 08-4802CA
 Corrections by: R.P. [Name], R.E.
 12-7-71



NOTES:
 6" AL. BERM TO BE REPLACED
 STA. 70+00 TO STA 74+38

JOHNSON & NIELSEN ASSOCIATES KOEBIG & KOEBIG INC. RIVERSIDE, CALIFORNIA <i>Robert Koebig</i> R.C.E. NO. 9424	CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	VAN BUREN BOULEVARD SANTA ANA RIVER BRIDGE CROSSING PLAN & PROFILE NORTH BOUND LANE	PROJECT NO. RI394 SHEET 8 OF 10 FILE NO.
	APPROVED BY: [Signature] OFFICE ENGINEER TRAFFIC DIVISION ASSISTANT CITY ENG.	APPROVED BY: [Signature] DIRECTOR OF PUBLIC WORKS DATE: 7-13-70	HORIZ. SCALE: 1" = 40' VERT. SCALE: 1" = 4'

September 28, 1970



AS BUILT
Contract 08-48020A
Corrections by: D.P. Pollock, R.E.
12-7-71

NOTE
ROCK SLOPE PROTECTION SHALL BE 1/2 TON
ROCK PLACED IN ACCORDANCE WITH METHOD B

JOHNSON & NIELSEN ASSOCIATES
KOBIG & KOBIG INC.
RIVERSIDE, CALIFORNIA

APPROVED BY	BY	DATE
OFFICE ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
ASSISTANT CITY ENG.		7.10

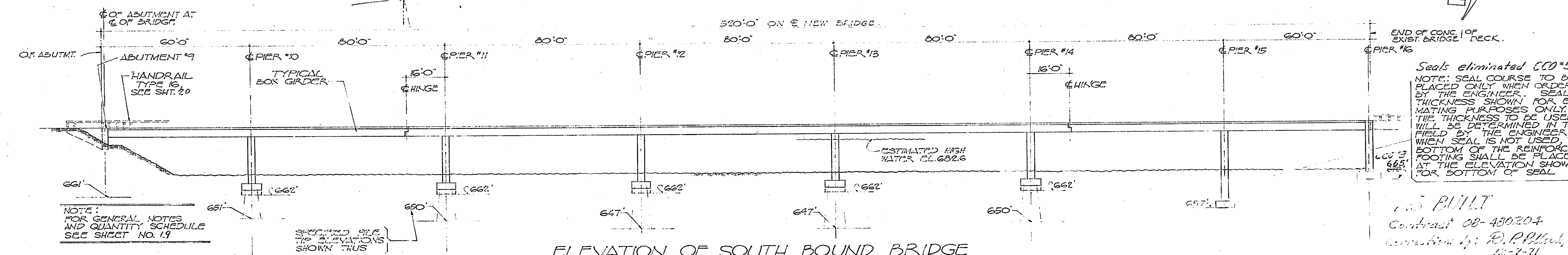
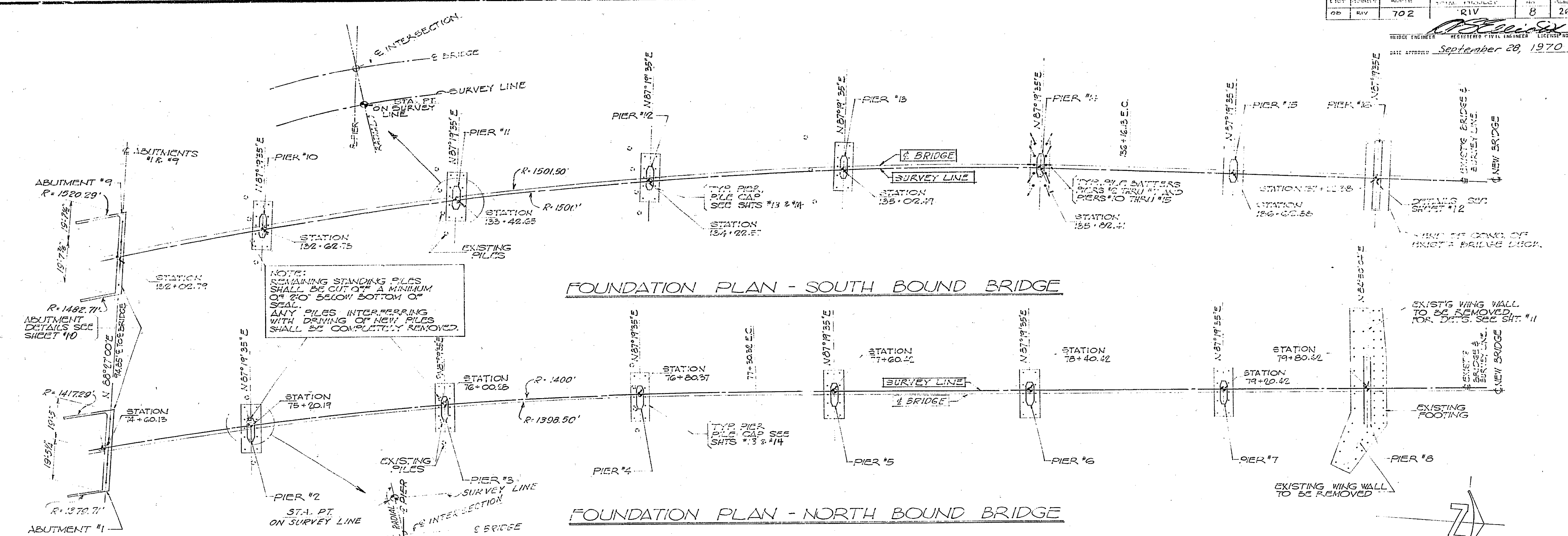
CITY OF RIVERSIDE, CALIFORNIA
DEPARTMENT OF PUBLIC WORKS

VAN BUREN BOULEVARD
SANTA ANA RIVER BRIDGE CROSSING
DETAILS

PROJECT NO.
R1394
SHEET 9 OF 20
FILE NO.

DESIGNED BY A.R.T. DRAWN BY A.G. CHECKED BY A.M.

HORIZ. SCALE: 1" = AS SHOWN VERT. SCALE: 1" = 12'



Carl J. Hurlbert
 R. C. Casanova
 R.C. Casanova

JOHNSON & NIELSEN ASSOCIATES KOEBIG & KOEBIG INC. RIVERSIDE, CALIFORNIA		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS		VAN BUREN BOULEVARD SANTA ANA RIVER BRIDGE CROSSING FOUNDATION PLAN		PROJECT NO. R-1394
DESIGNED BY: _____ DRAWN BY: _____ CHECKED BY: _____	REVISIONS: _____ APPR. DATE: _____	APPROVED BY: _____ OFFICE ENGINEER: _____ TRAFFIC DIVISION: _____ ASSISTANT CITY ENG. NO. 710	APPROVED BY: _____ DIRECTOR OF PUBLIC WORKS: _____ DATE: 7-15-70	HORIZ. SCALE: 1" = 20' VERT. SCALE: 1" = 20'		SHEET 10 OF _____ FILE NO. _____

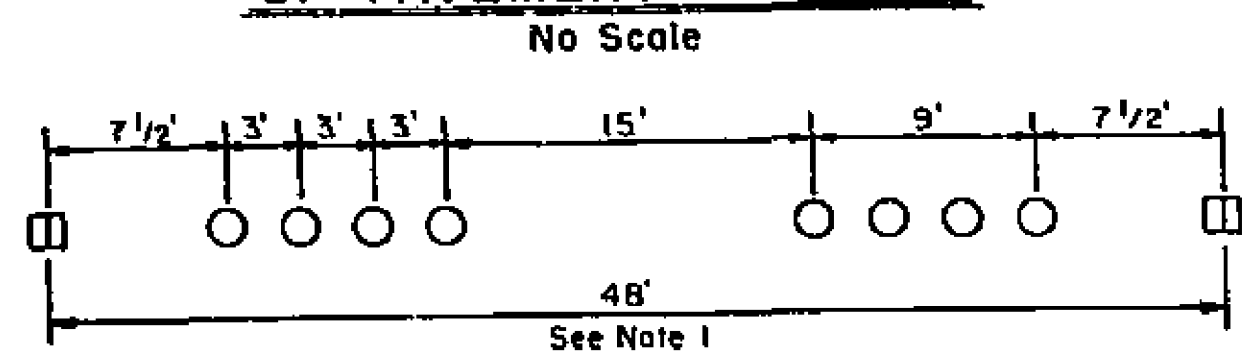
To accompany plans dated September 28, 1970

DISTRICT	COUNTY	ROUTE	POST MILES-TOTAL PROJ.	SHEET NO.	TOTAL SHEETS
08	RIV	702	RIV	26	26

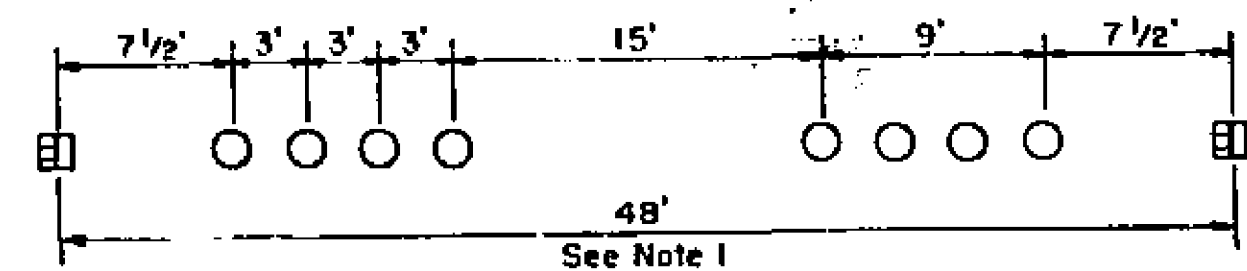
APPROVAL RECOMMENDED

Civil Engineer License No.
Approved
Civil Engineer License No.

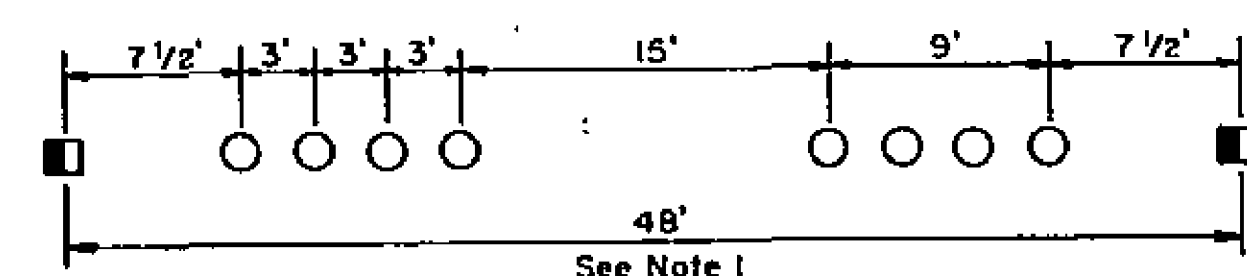
TYPICAL INSTALLATION DETAILS OF PAVEMENT MARKERS



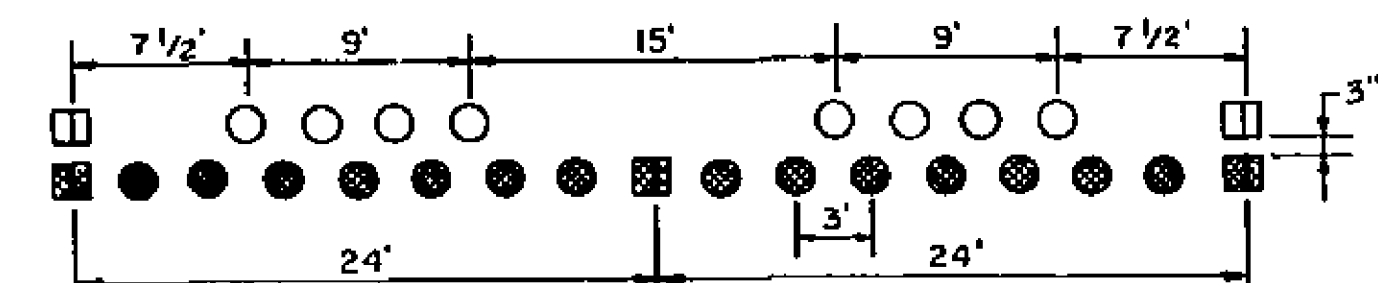
DETAIL 1 CENTERLINE ON TWO LANE CONVENTIONAL HIGHWAYS



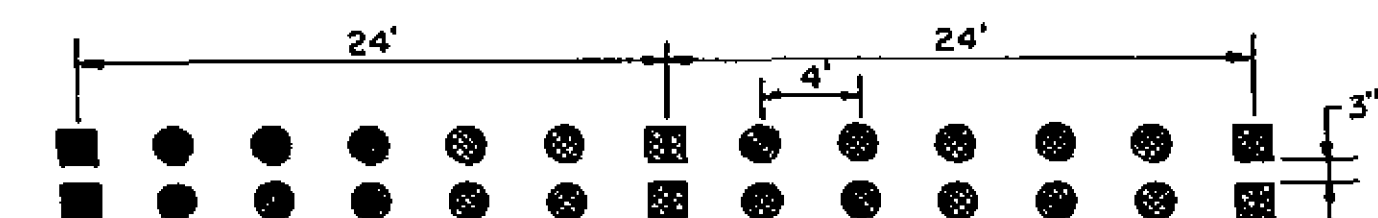
DETAIL 2 LANE LINE ON FREEWAYS



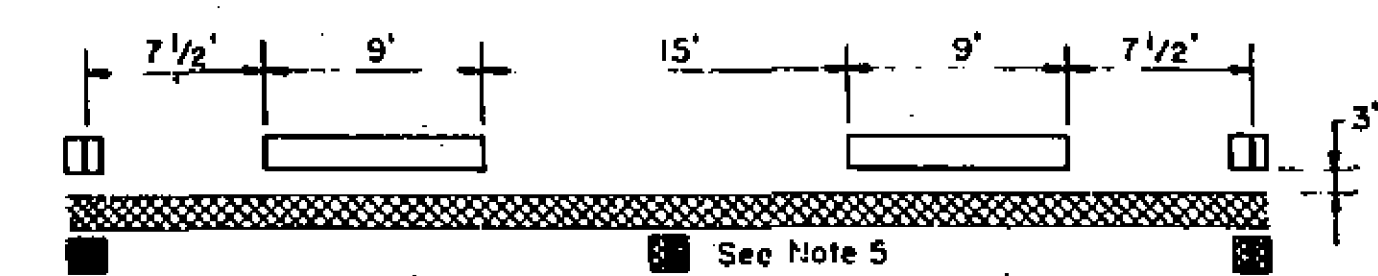
DETAIL 3 LANE LINE ON MULTILANE UNDIVIDED HIGHWAYS



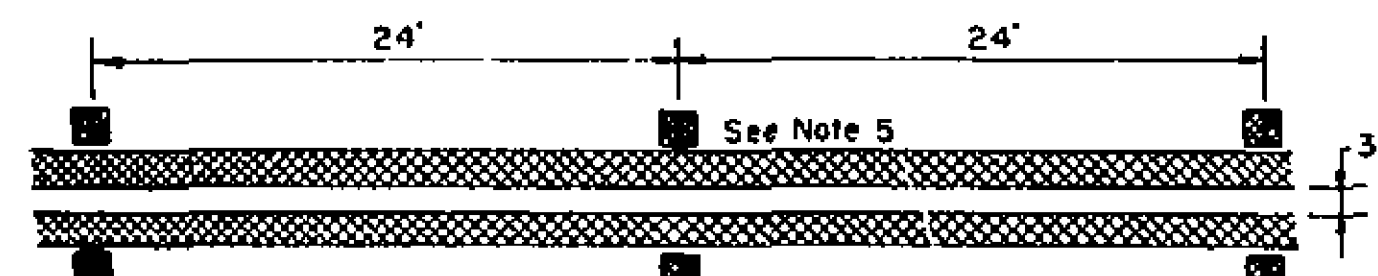
DETAIL 4 ONE-WAY NO PASSING ZONE



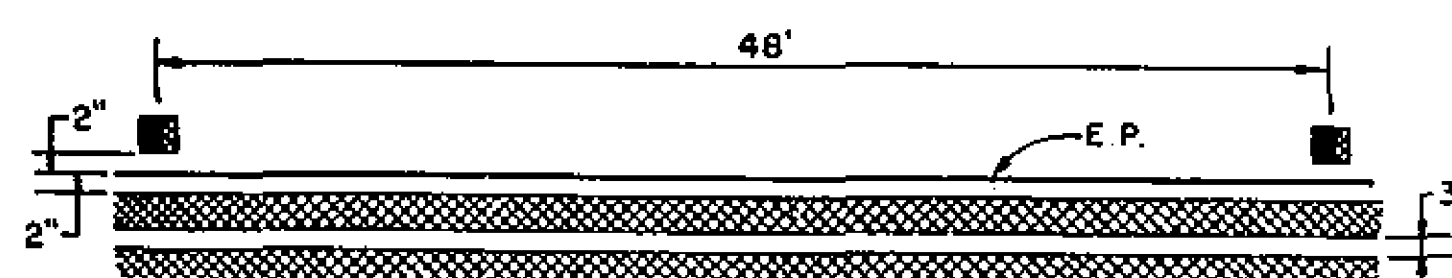
DETAIL 5 TWO-WAY NO PASSING ZONE



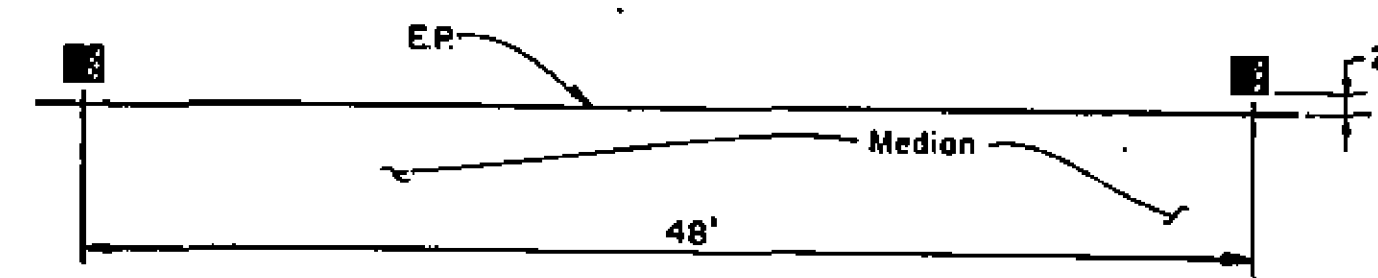
DETAIL 6 ONE-WAY NO PASSING ZONE WITH PAINTED STRIPE



DETAIL 7 TWO-WAY NO PASSING ZONE WITH PAINTED STRIPE



DETAIL 8 MEDIAN EDGE LINE WITH DOUBLE YELLOW STRIPE



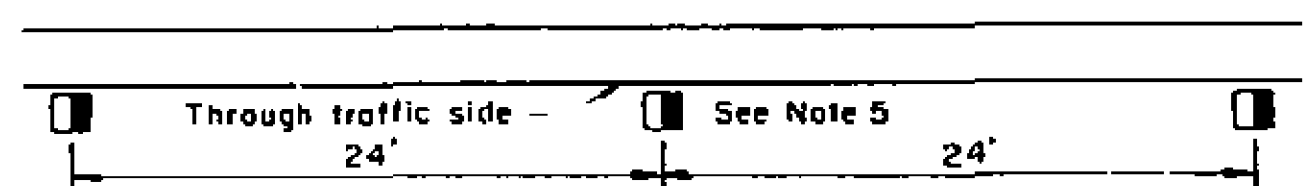
DETAIL 9 MEDIAN EDGE LINE WITHOUT PAINTED STRIPE

INSTALLATION AND QUANTITY SUMMARY

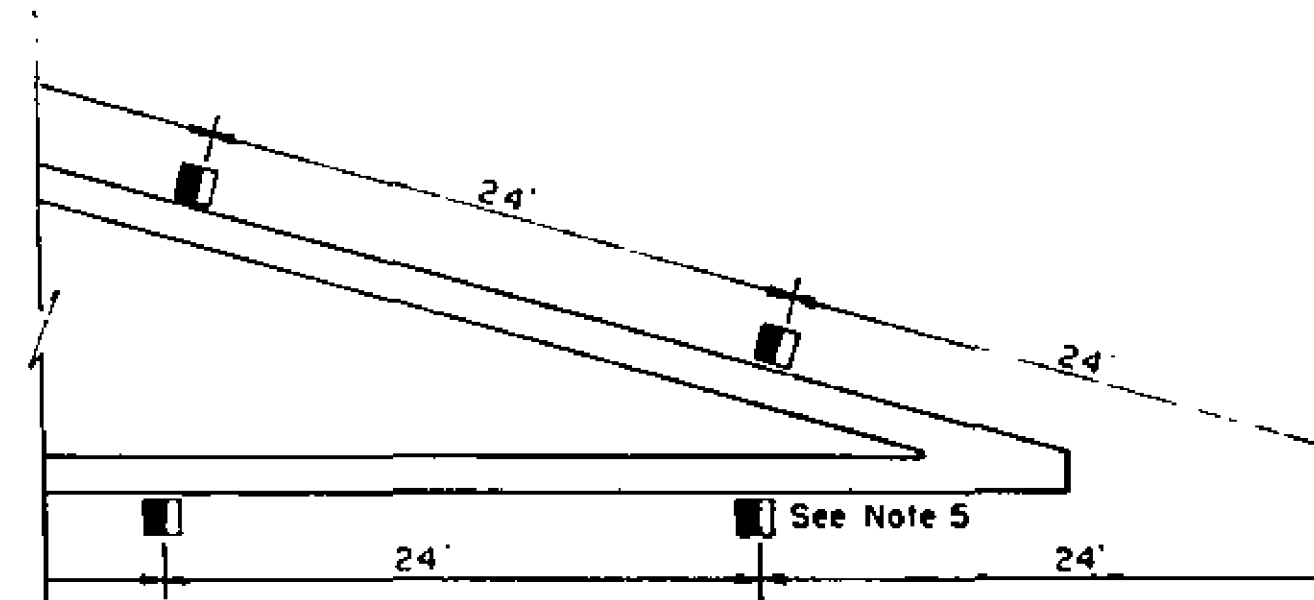
Co. Rte.	STATIONS OR POST MILES		DETAIL NO.	PAVEMENT MARKER QUANTITIES															
				NON-REFLECTIVE				REFLECTIVE											
				TYPE A White	TYPE AY Yellow	CLASS	TYPE B Clear	TYPE C Red & Clear	TYPE D Yellow	TYPE G Clear	TYPE H Yellow								
	From	To																	
				322								78							
TOTALS												78							

Notes:

- Place reflective markers at 48' intervals on tangents and on curves of 1000' radius or greater, and at 24' intervals on curves with less than 1000' radius, unless otherwise shown.
- When Type A markers are placed on highways with existing traffic stripe, longitudinal spacings shall be adjusted so that the nonreflective markers fall on the stripe.
- An undercut bevel of approximately 45° will be allowed on ceramic markers in lieu of detail shown.
- Tolerance on all marker dimensions = 0.1" except as noted.



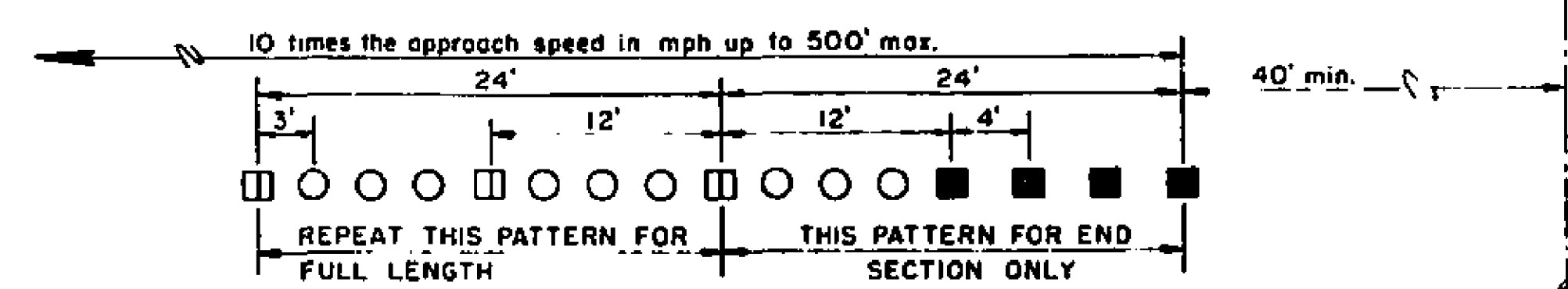
DETAIL 10 8" WHITE CHANNELIZATION STRIPE



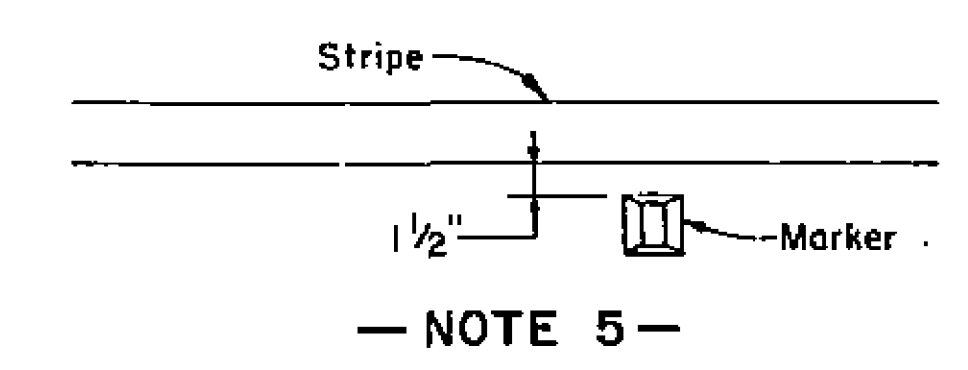
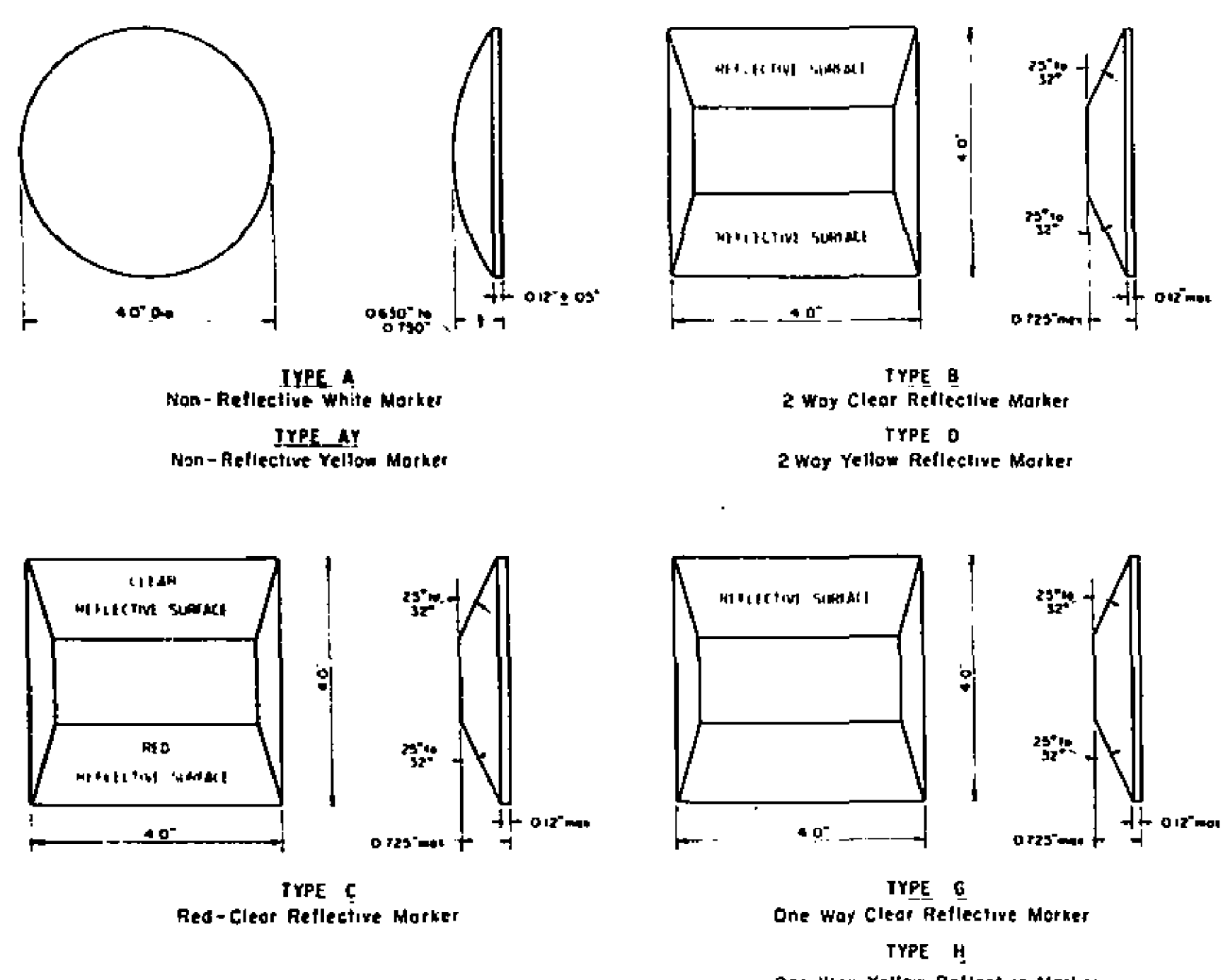
DETAIL 11 8" WHITE EXIT RAMP GORE STRIPE



DETAIL 12 TWO-WAY LEFT TURN LANE WITH PAINTED STRIPE



DETAIL 13 ROAD INTERSECTIONS FOR TWO LANE ROADS



NOTE 5

Legend:

TYPE AY	●	4" PLAIN YELLOW
TYPE A	○	1" PLAIN WHITE
TYPE B	□	2 WAY CLEAR
TYPE C	▣	RED & CLEAR
TYPE D	■	2 WAY YELLOW
TYPE G	▤	1 WAY CLEAR
TYPE H	▥	1 WAY YELLOW
	—	WHITE STRIPE
	▨	YELLOW STRIPE

AS BUILT
Contract 08-480204
No Corrections: D.P. Pollock, R.E.
12-7-71

PAVEMENT MARKERS TYPICAL DETAILS

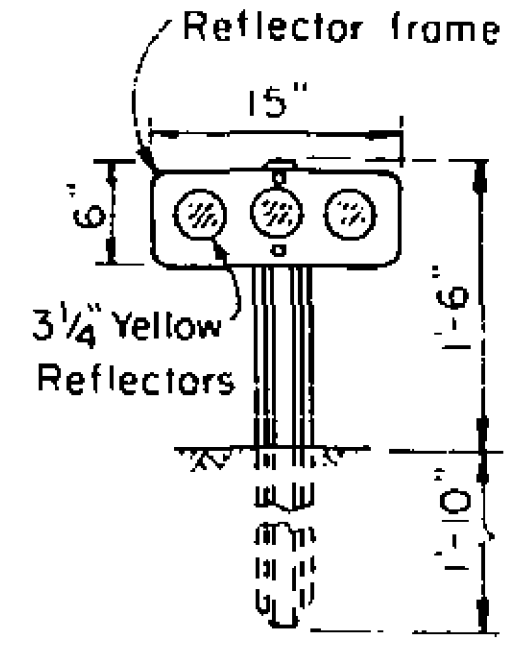
To accompany plans dated September 28, 1970

APPROVAL RECOMMENDED

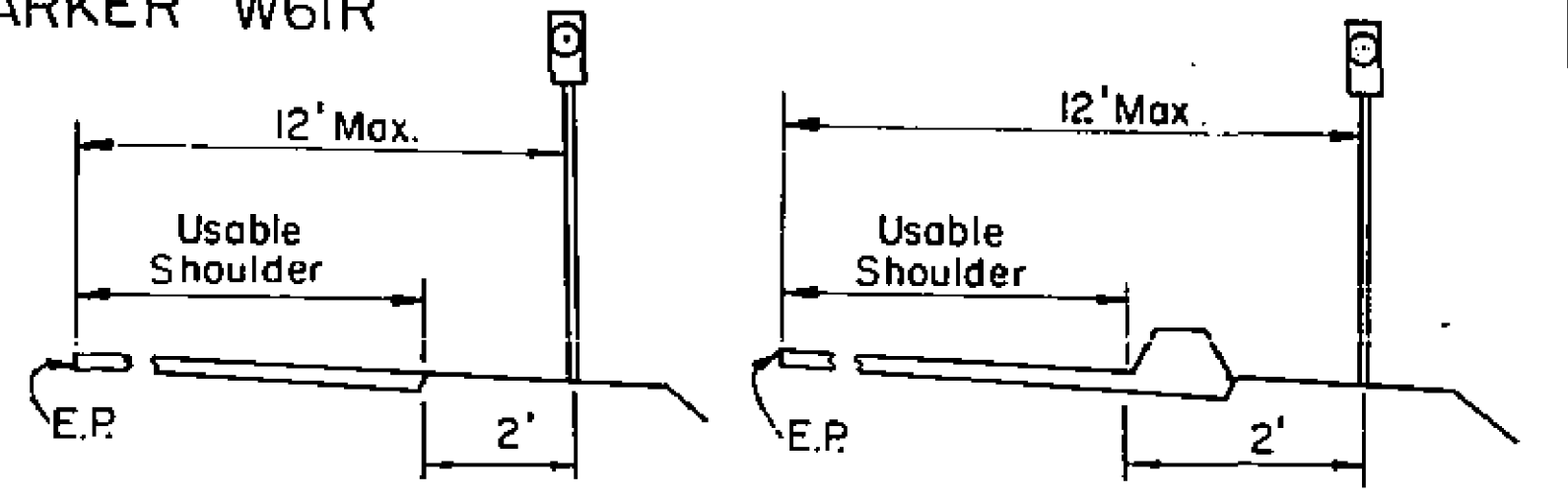
J. S. Howell
Traffic Engineer
Registered Professional Engineer No. 9618

APPROVED November 5, 1969

J. A. Sogana
State Highway Engineer
Registered Civil Engineer No. 5645



HORIZONTAL REFLECTOR MARKER W6IR



MARKER POSITIONING

REV. 11/5/69

Guide Marker Reflectors			
TYPE	COLOR	FRONT	BACK
A		None	None
E	Clear	1 - 3 1/4"	1 - 3 1/4"
F	Clear	1 - 3 1/4"	None
G	Yellow	2 - 3 1/4"	None
I	Yellow	2 - 3 1/4"	1 - 3 1/4"
Horizontal Reflector Marker W6IR			
K	Yellow	3 - 3 1/4"	None
Clearance Marker			
L	Yellow	3 - 3 1/4"	None
Milepost Marker			
M		None	None

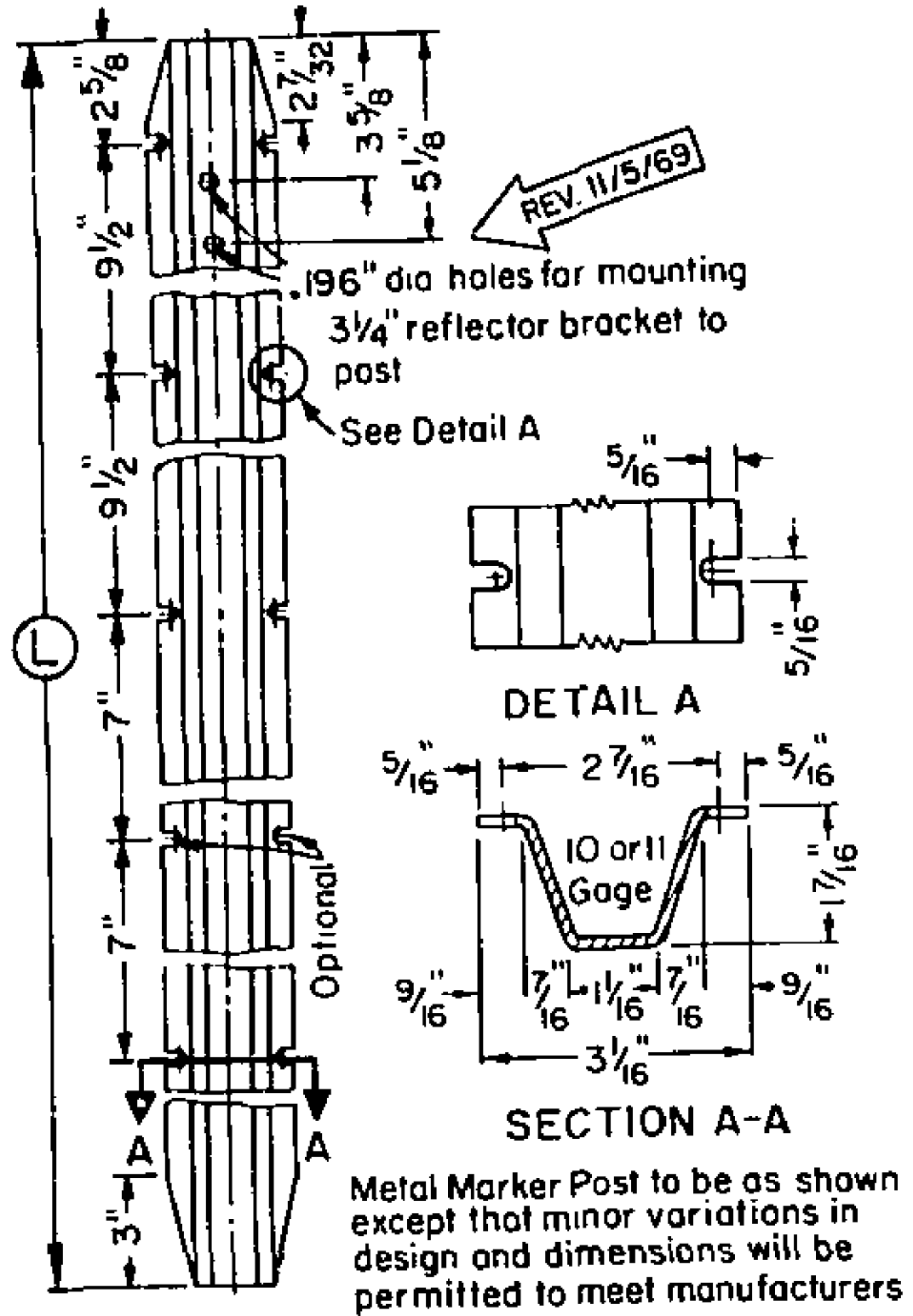
NOTE:
Plans or contract items will specify combination of reflector and post assembly for Guide markers e.g. A-1, E-2 etc.

All reflectors to be 3/4" diameter and center mounted.

NOTE:
These details supersede details shown on Standard Plan No. A74-A, page no. 14 of the Standard Plans dated July, 1969.

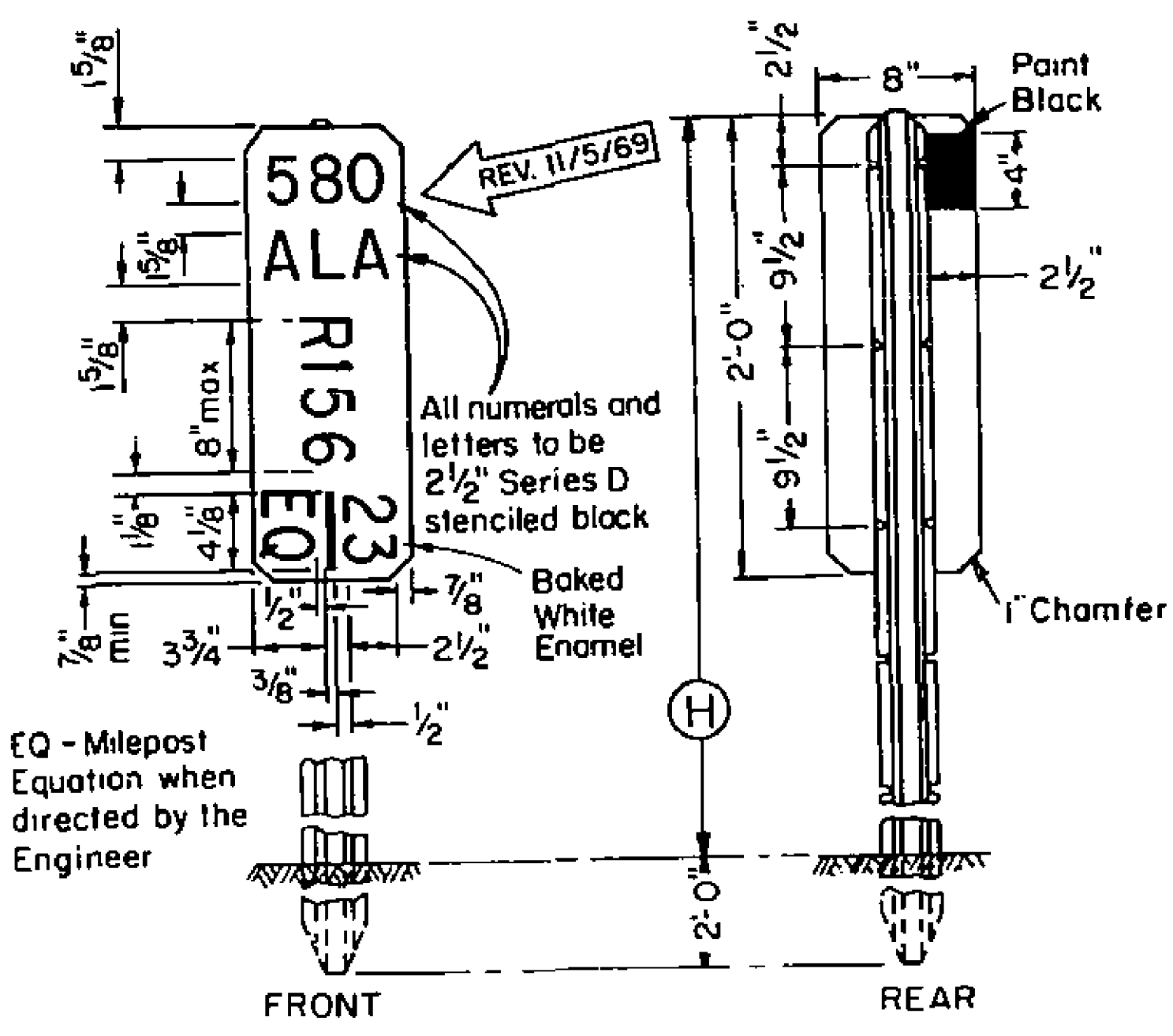
SPECIAL DETAILS MARKERS

SDA74-A.1



METAL MARKER POST

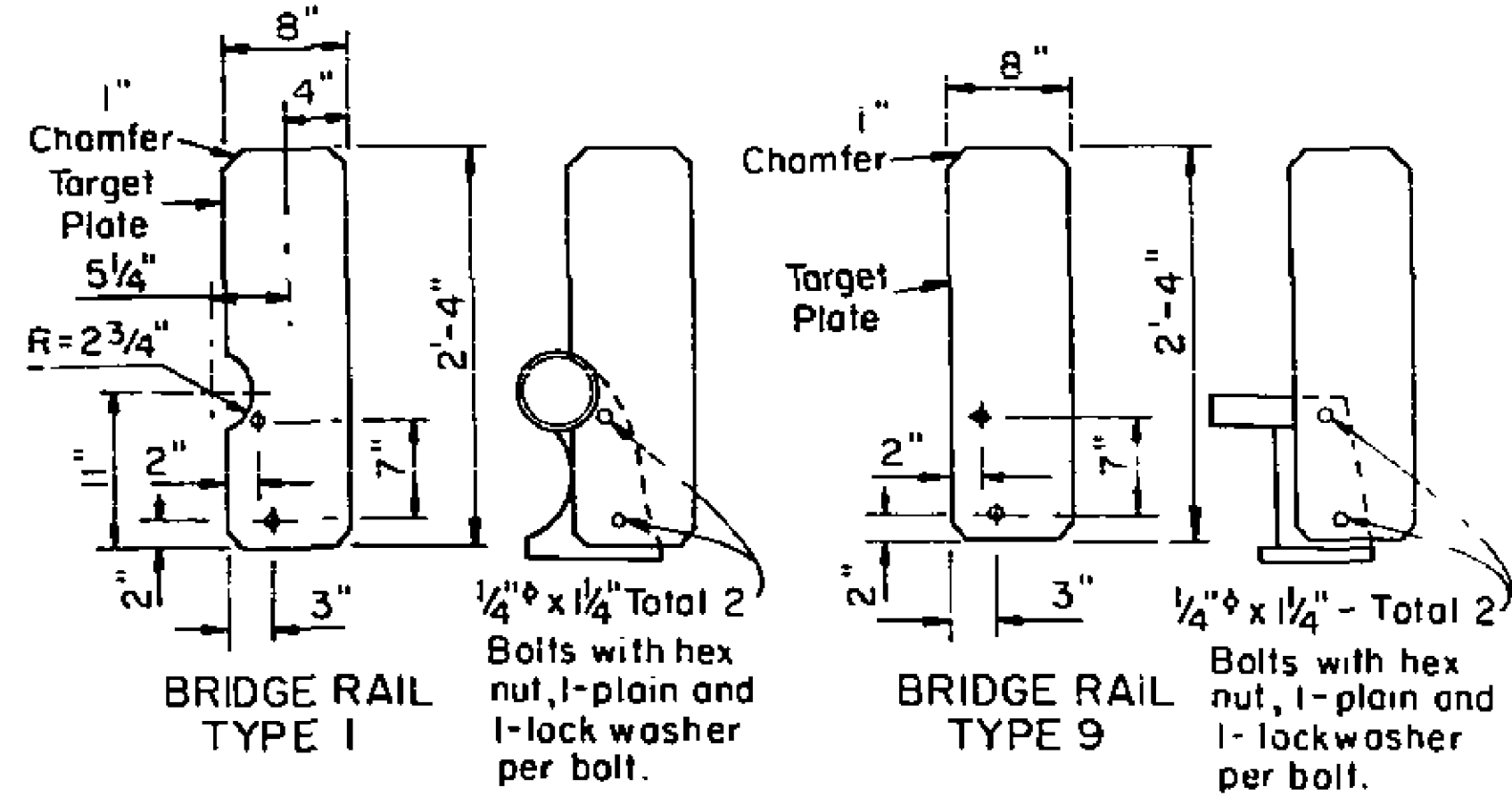
Metal Marker Post to be as shown except that minor variations in design and dimensions will be permitted to meet manufacturers standards.



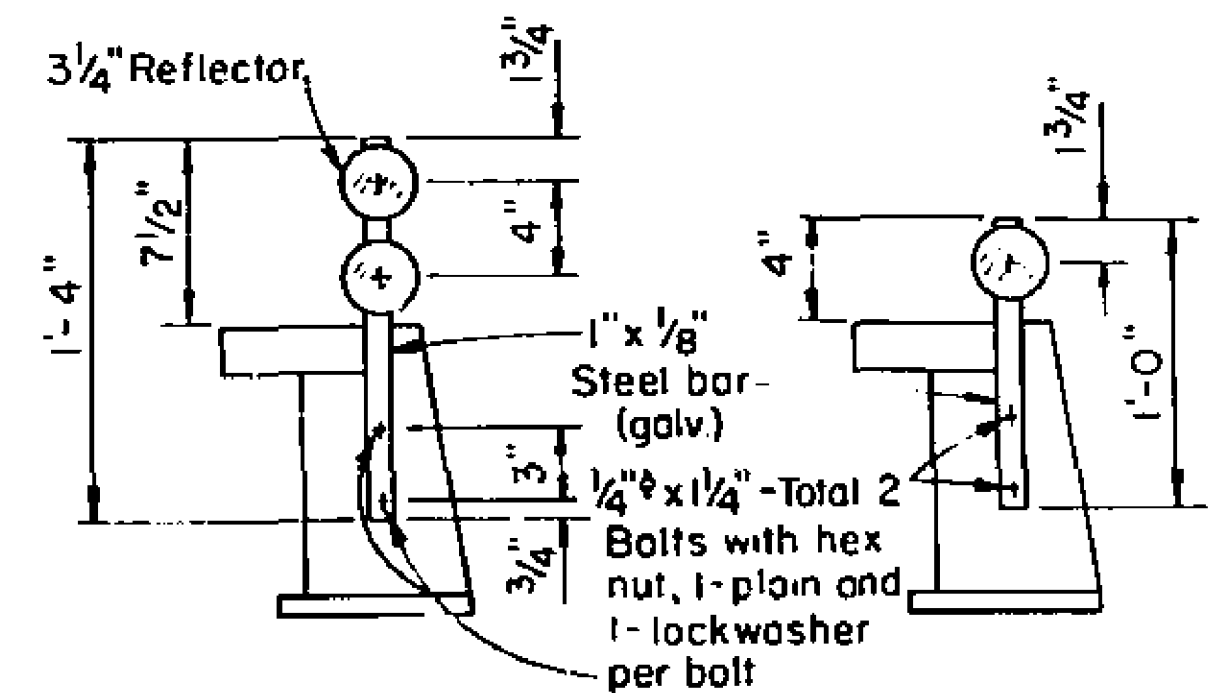
MILEPOST MARKER

NOTE

- (L) = 5'-0" when (H) is 3'-0"
- (L) = 6'-0" when (H) is 4'-0"
- (H) = 4'-0" Standard height
- (H) = 3'-0" Height when specified in the Special Provisions.

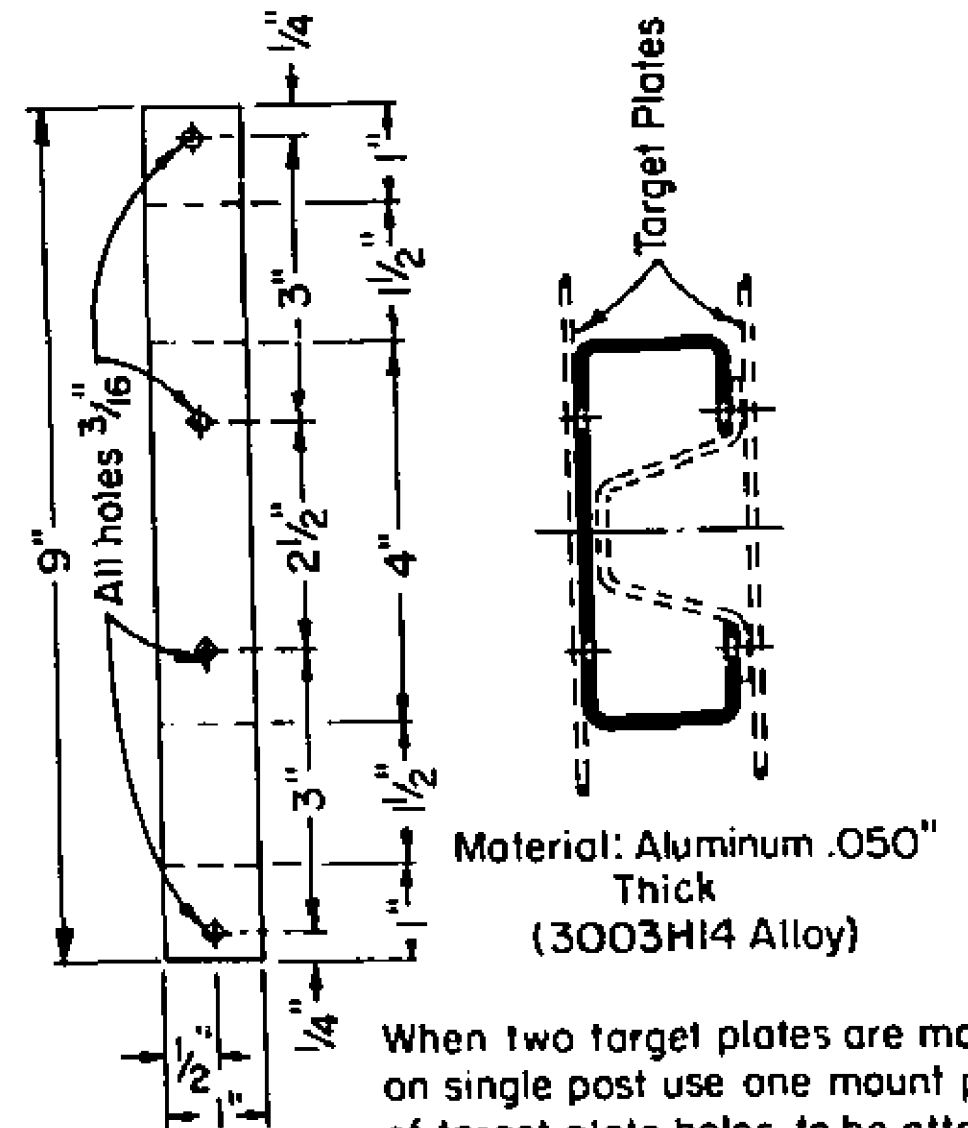


BRIDGE RAIL MILEPOST MARKER



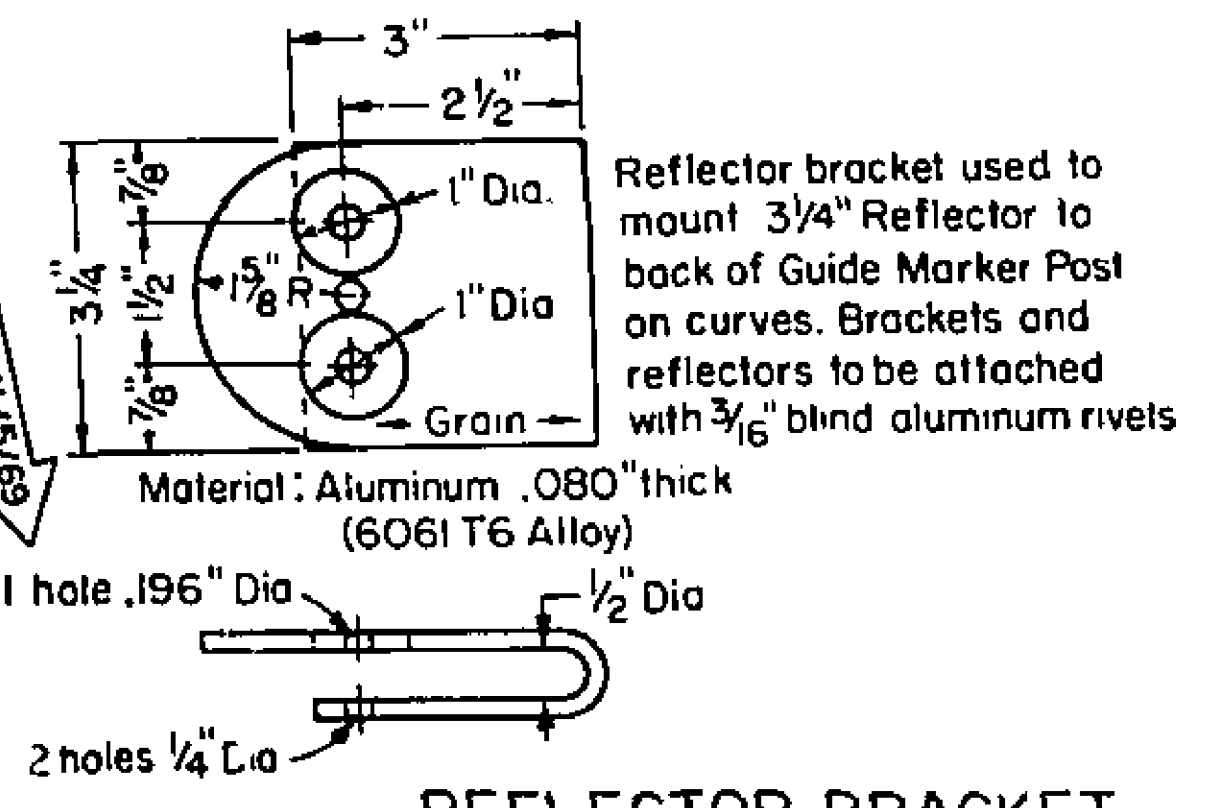
BRIDGE RAIL MARKER

(Connections to other types of rail posts similar)
Reflector Assemblies on Bridges are to be placed at Standard Guide Marker spacings as shown on detailed plans or as directed by the Engineer.

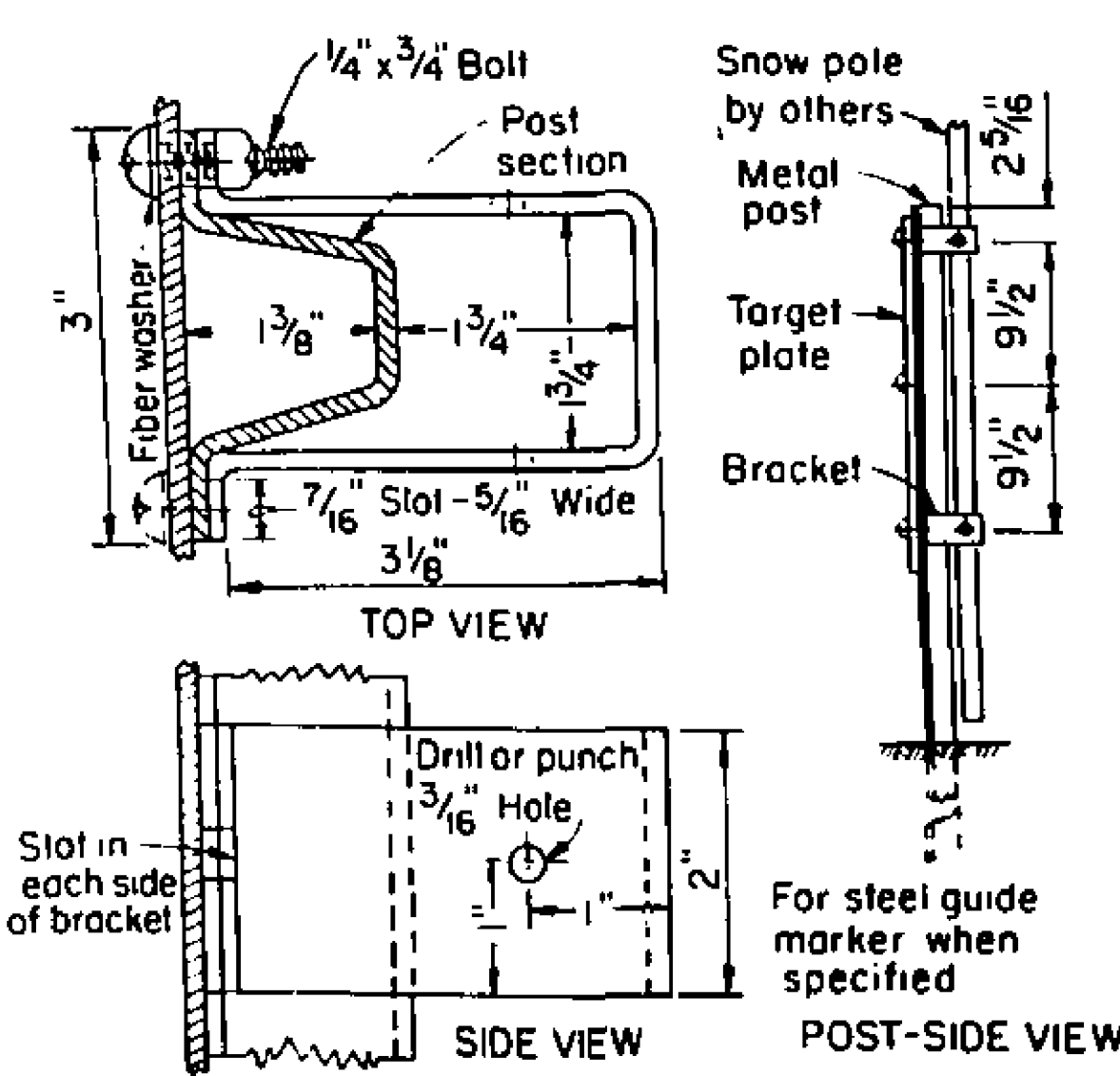


TWO PLATE POST MOUNT

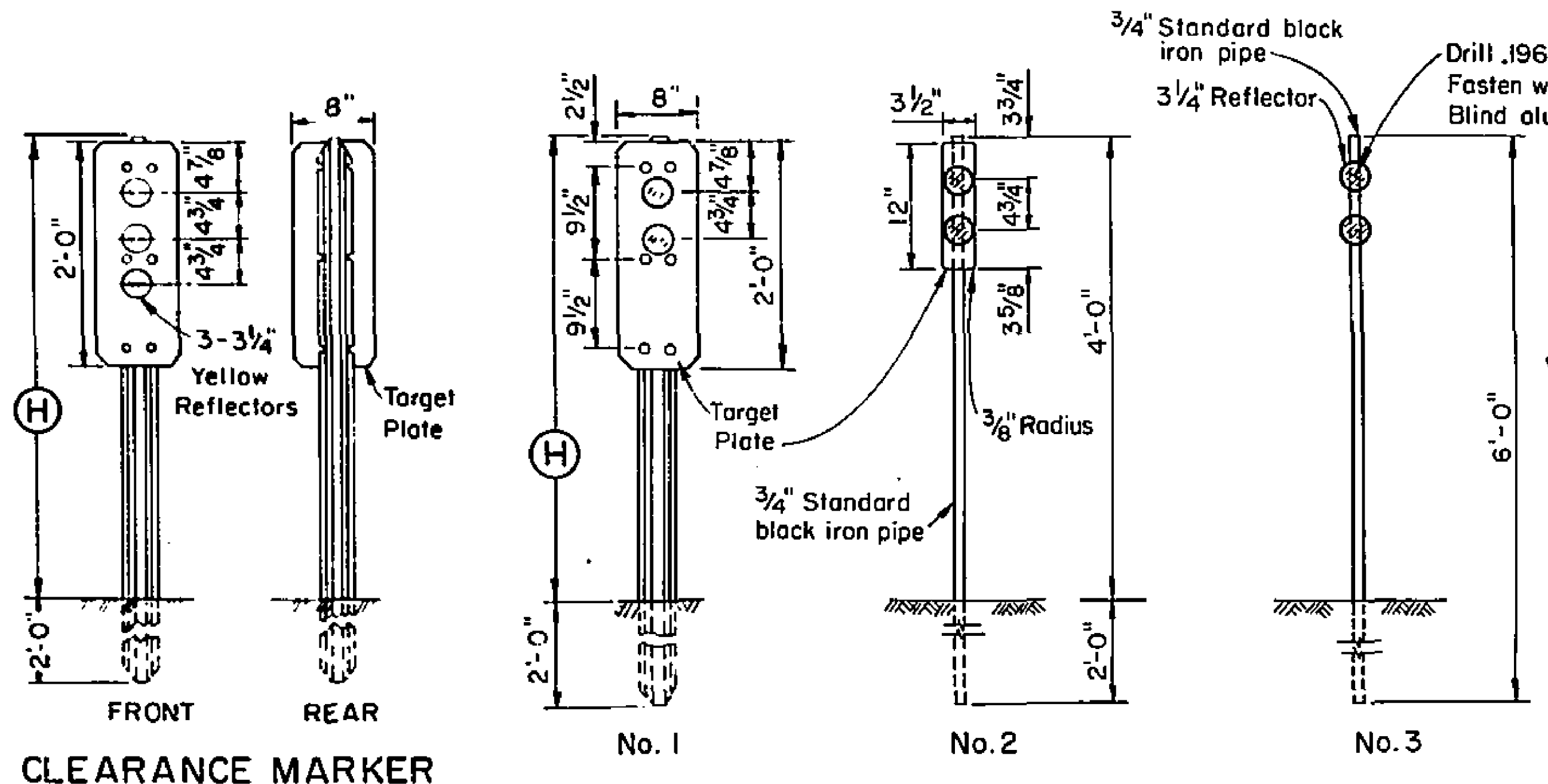
When two target plates are mounted on single post use one mount per set of target plate holes, to be attached with 3/16 inch blind aluminum rivets



REFLECTOR BRACKET



SNOW POLE BRACKET



CLEARANCE MARKER

GUIDE MARKERS

AS BUILT
Contract 08-480204
No Corrections: D.P. [Signature], RE.
12-7-71

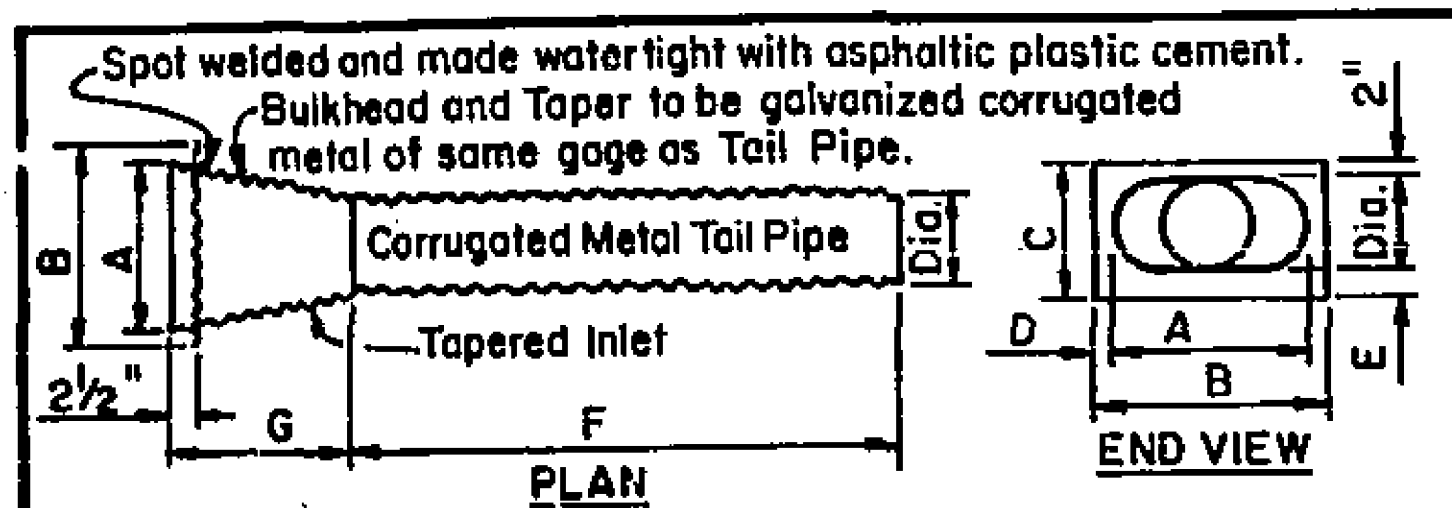
REV. 11/5/69

REV. 11/5/69

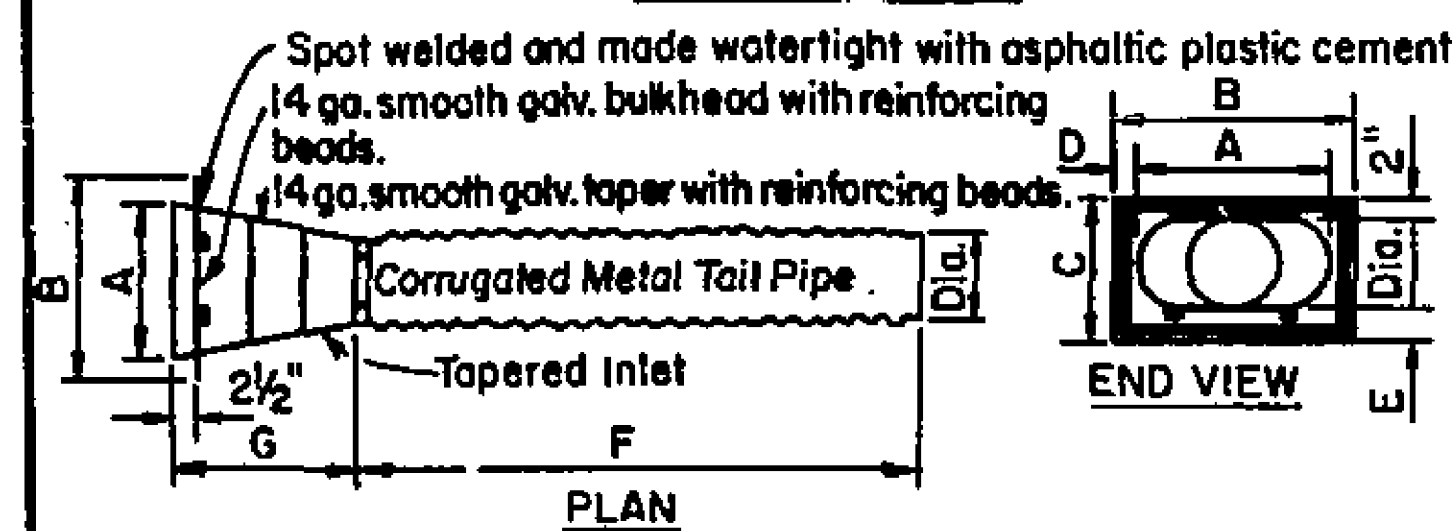
14

27

W.R. Green
 Highway Design Engineer
 Registered Civil Engineer No. 8872
 Approved March 6, 1970
 State Highway Engineer
 Registered Civil Engineer No. 5645



**ENTRANCE TAPER-TYPE 1
 ALTERNATIVE A**

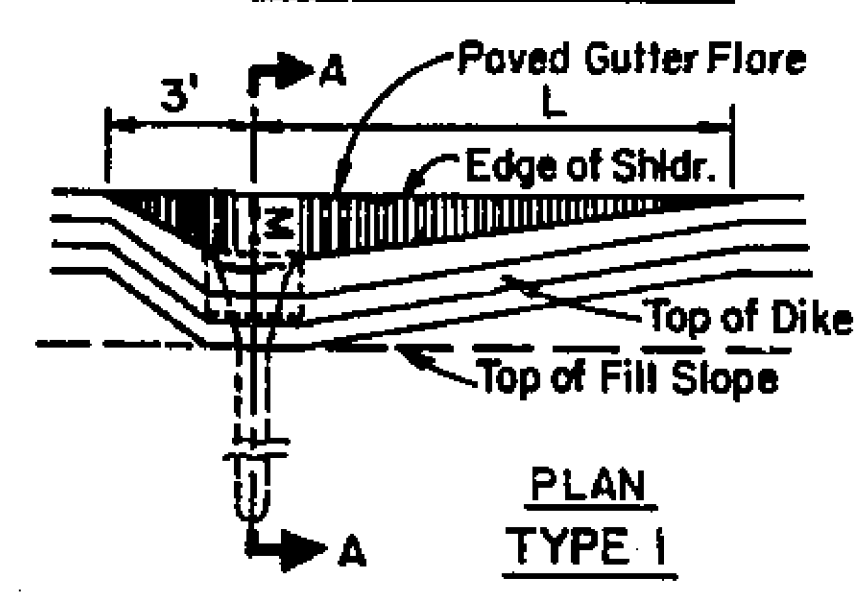


**ENTRANCE TAPER-TYPE 1
 ALTERNATIVE B**

NOTES:
 Taper joints may be welded or riveted.
 Dimensions to be as tabulated below for Type 1 Alternatives A and B.

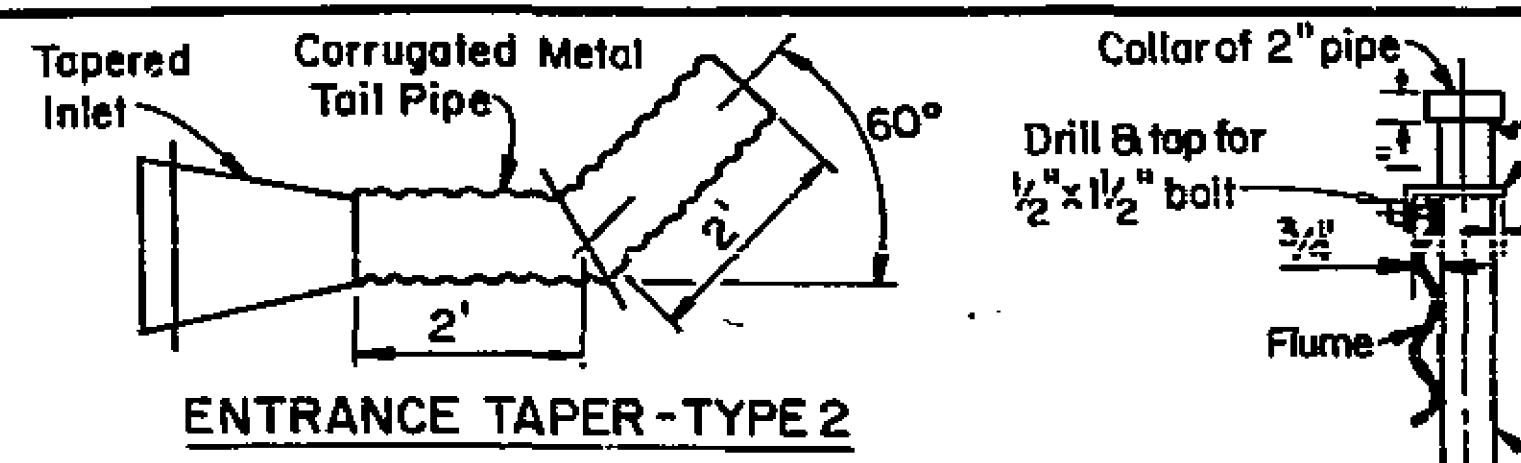
DIA.	A	B	C	D	E	F	G
8"	16"	25 1/2"	15"	4 3/4"	5"	6"	2'
12"	18"	25 1/2"	19"	3 3/4"	5"	6"	2'
15"	21"	30"	23"	4 1/2"	6"	6"	2'
18"	24"	34"	27"	5"	7"	6"	2'
24"	34"	46"	35"	6"	9"	4'	4'

**ENTRANCE TAPER-TYPE 1
 ALTERNATIVE A & B**



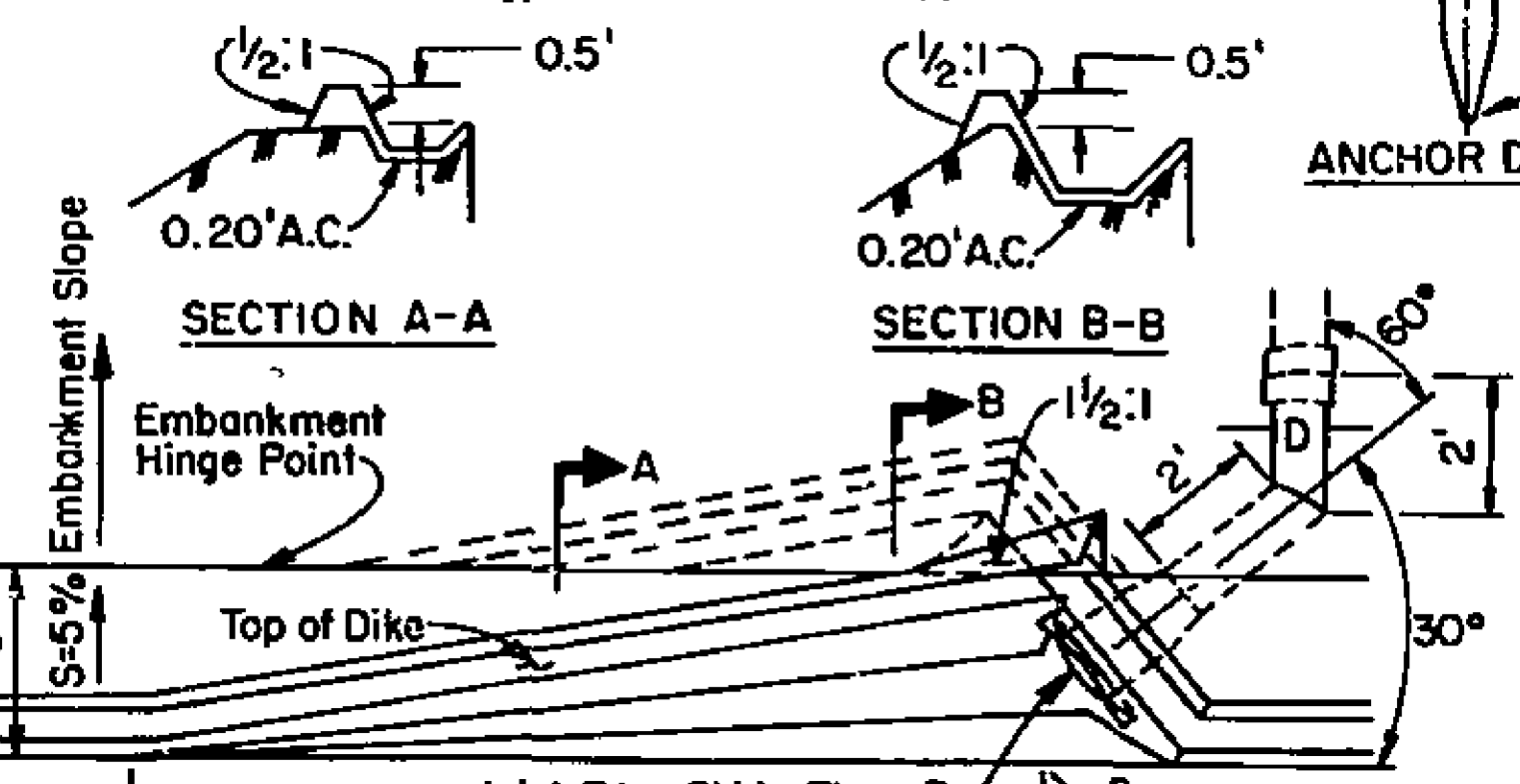
DIA.	MIN.	M	N
8"	10"	18"	8"
12"	15"	20"	12"
15"	25"	24"	15"
18"	30"	30"	16"
24"	40"	36"	18"

**PLAN
 TYPE 1**

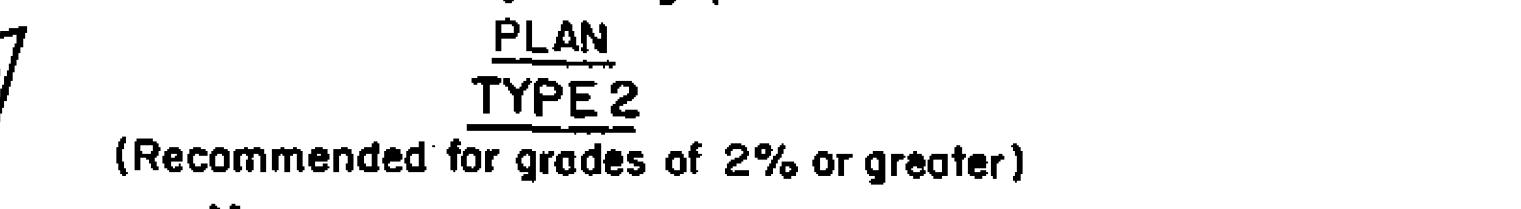


ENTRANCE TAPER-TYPE 2

NOTE: Tapered inlet of same construction and dimensions as Type 1 - Alternative A or B.

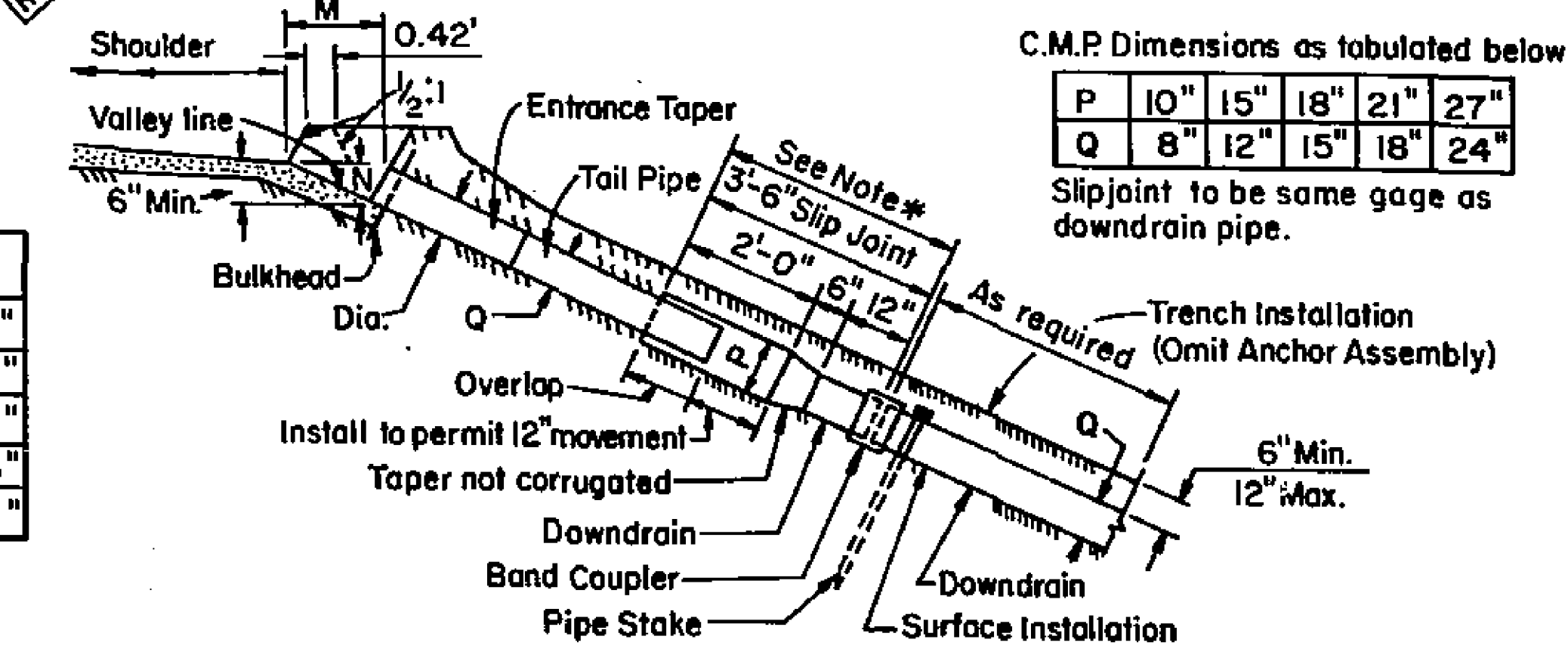


NOTE: Extend dike base to provide suitable support where dike extends beyond hinge point.



**PLAN
 TYPE 2**

(Recommended for grades of 2% or greater)



SECTION A-A (TYPE 1)

NOTE: (1) Cable, slip joint or anchor assembly to be placed when specified.
 (2) Slip joint to be omitted when completely buried.
 (3) Slip joint for Type 1 entrance taper shown. Type 2 similar.

ENTRANCE TAPER AND PIPE DOWNDRAIN

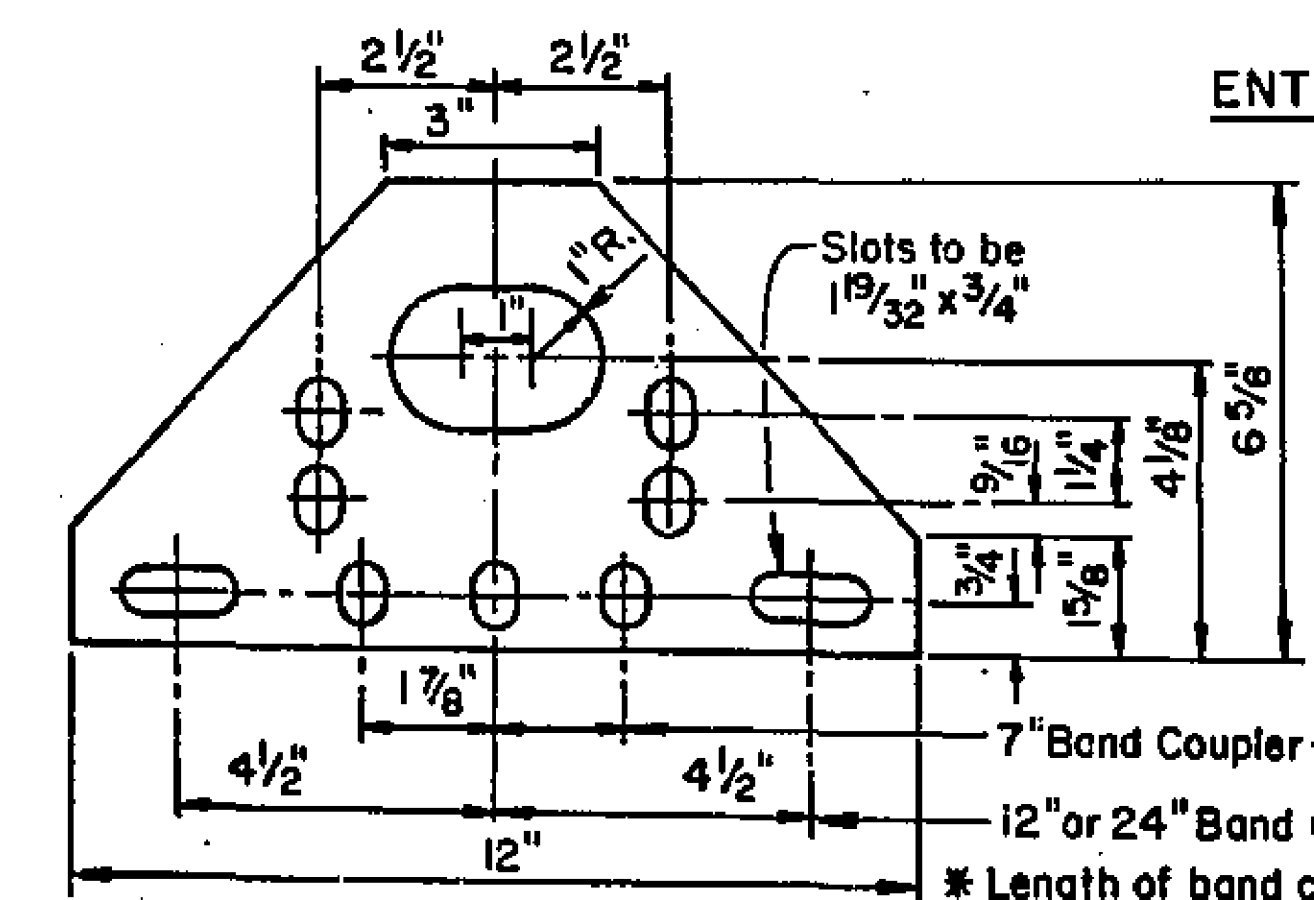
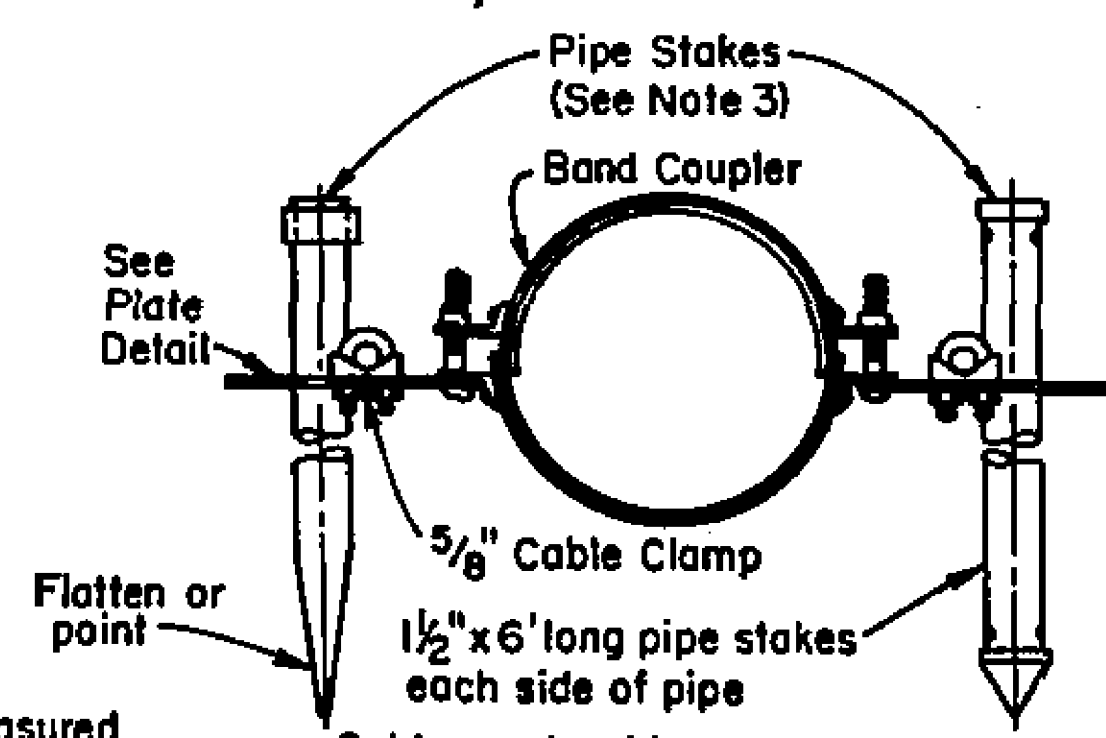
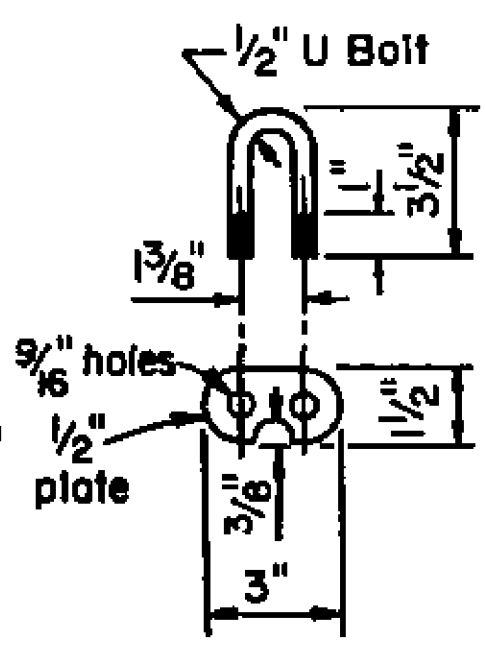


PLATE DETAIL

Material to be 1/4" plate galvanized after fabrication.
 * Length of band coupler measured parallel to the centerline of the pipe.

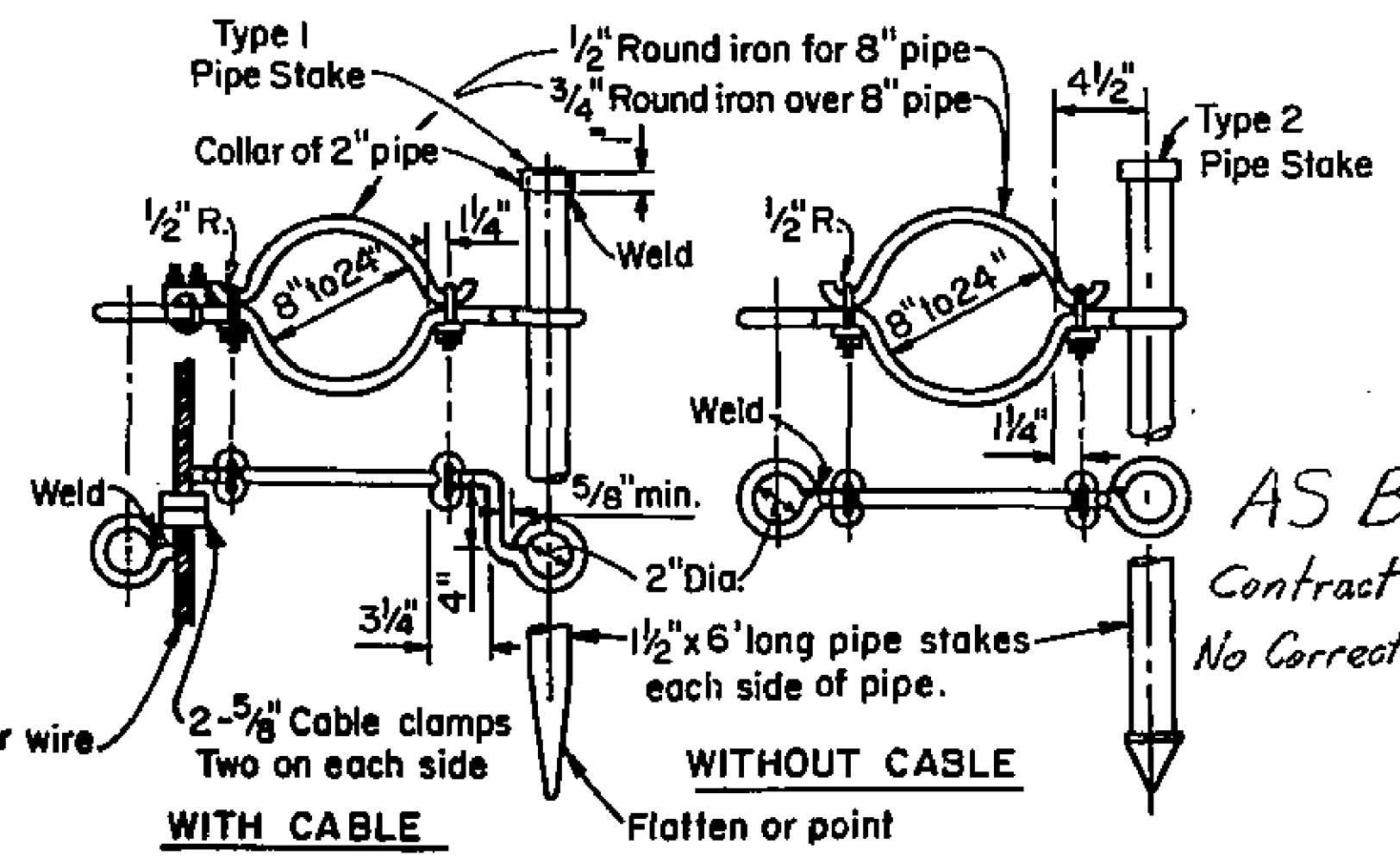


**ANCHOR ASSEMBLY
 ALTERNATIVE B**



ANCHOR ASSEMBLY-ALTERNATIVE A

5/8" common cable or wire rope, galvanized. One on each side.



**ASSEMBLY DETAILS
 PIPE STAKE-TYPE 2**

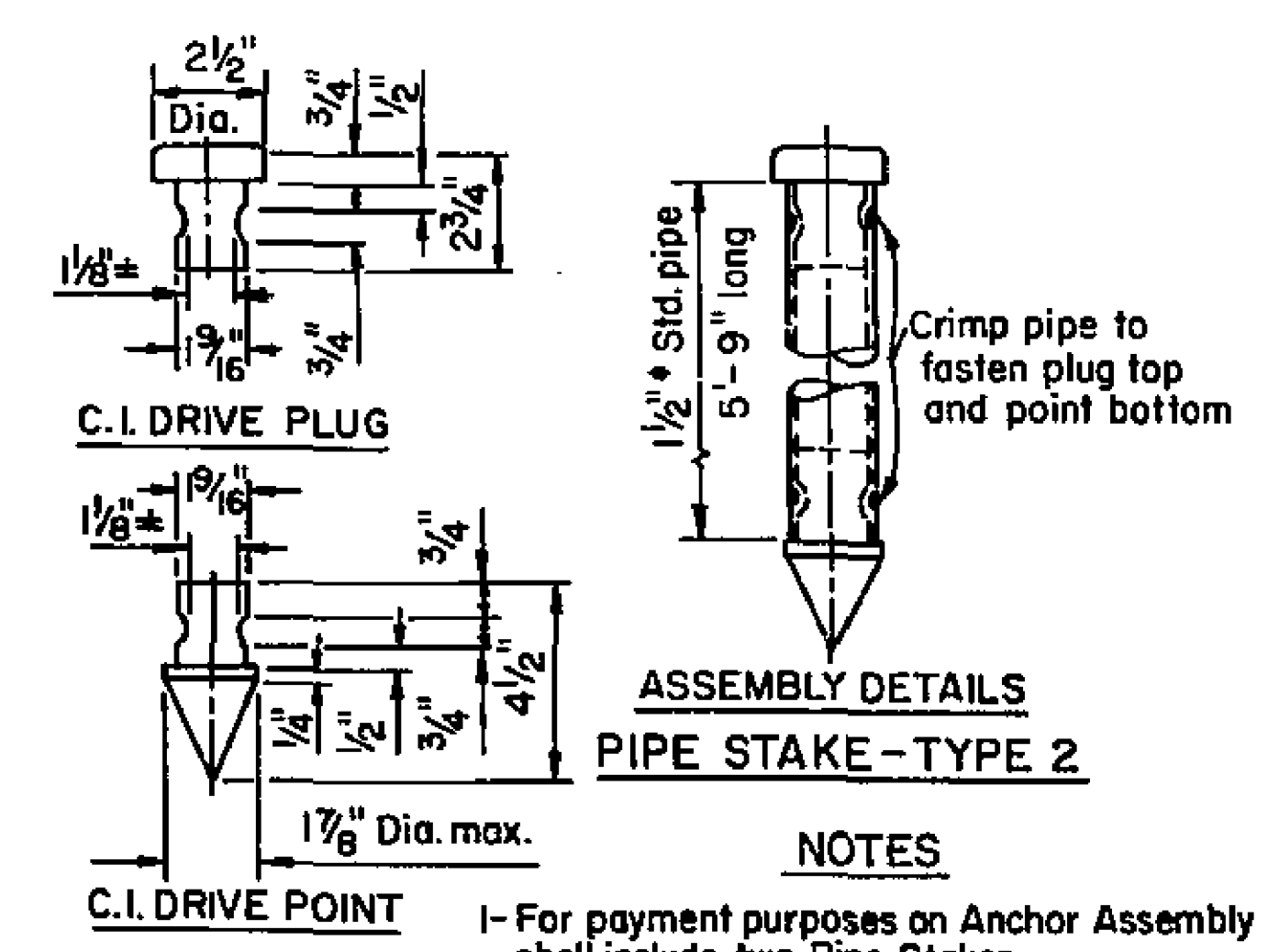
NOTES:
 1- For payment purposes on Anchor Assembly shall include two Pipe Stakes.
 2- All Pipe Stakes and Hardware to be galvanized after fabrication.
 3- Either Alternative A or Alternative B Anchor Assemblies and Type 1 or Type 2 Pipe Stakes may be used at contractor's option for C.M.P. or C.A.P. For A.C.P. use Alternative A.

AS BUILT

Contract 08-480204
 No Corrections: R.P. White, RE
 12-7-71

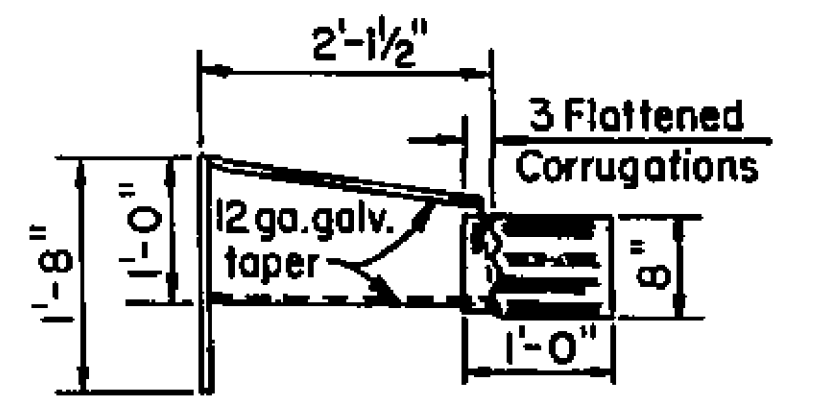
See Standard Plan No. D87-B.1 for Underdrain Risers.

TAPERED INLET AND FLUME DOWNDRAIN

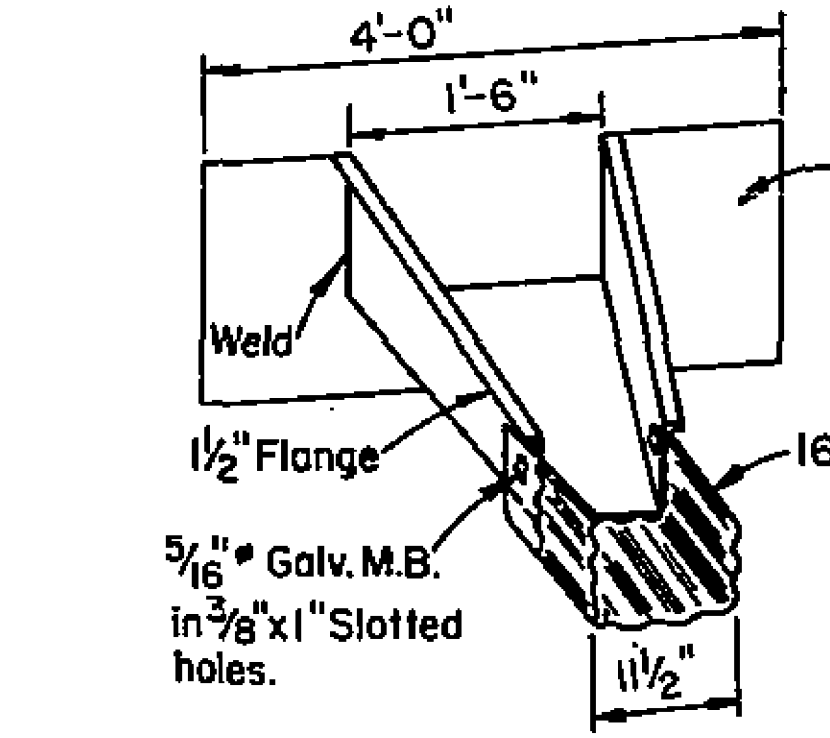


C.I. DRIVE POINT

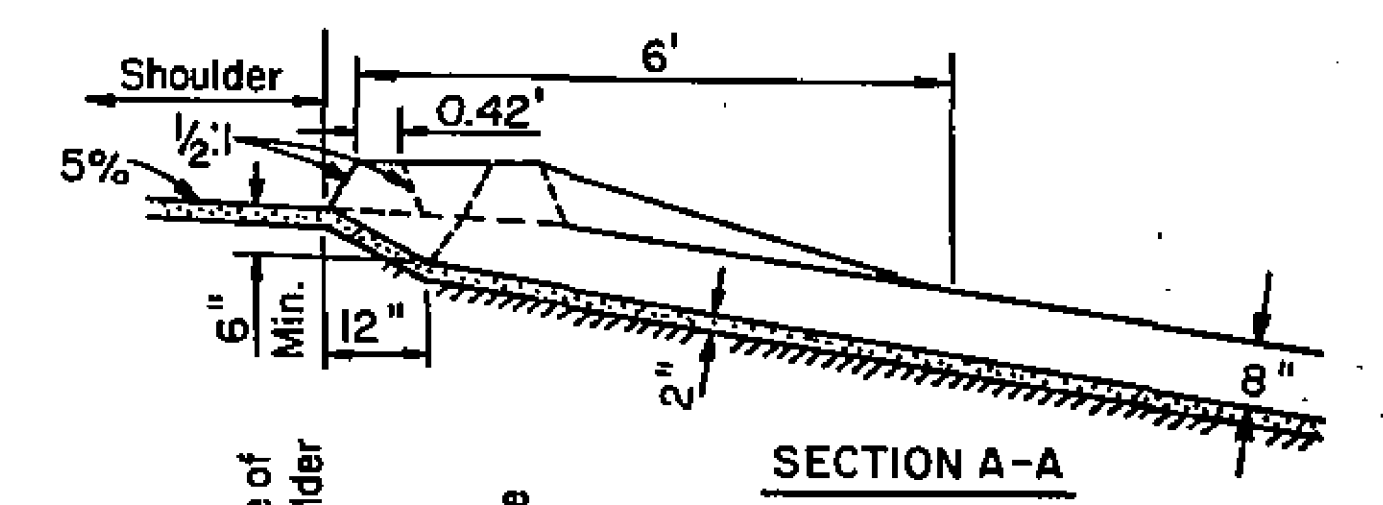
C.I. DRIVE PLUG



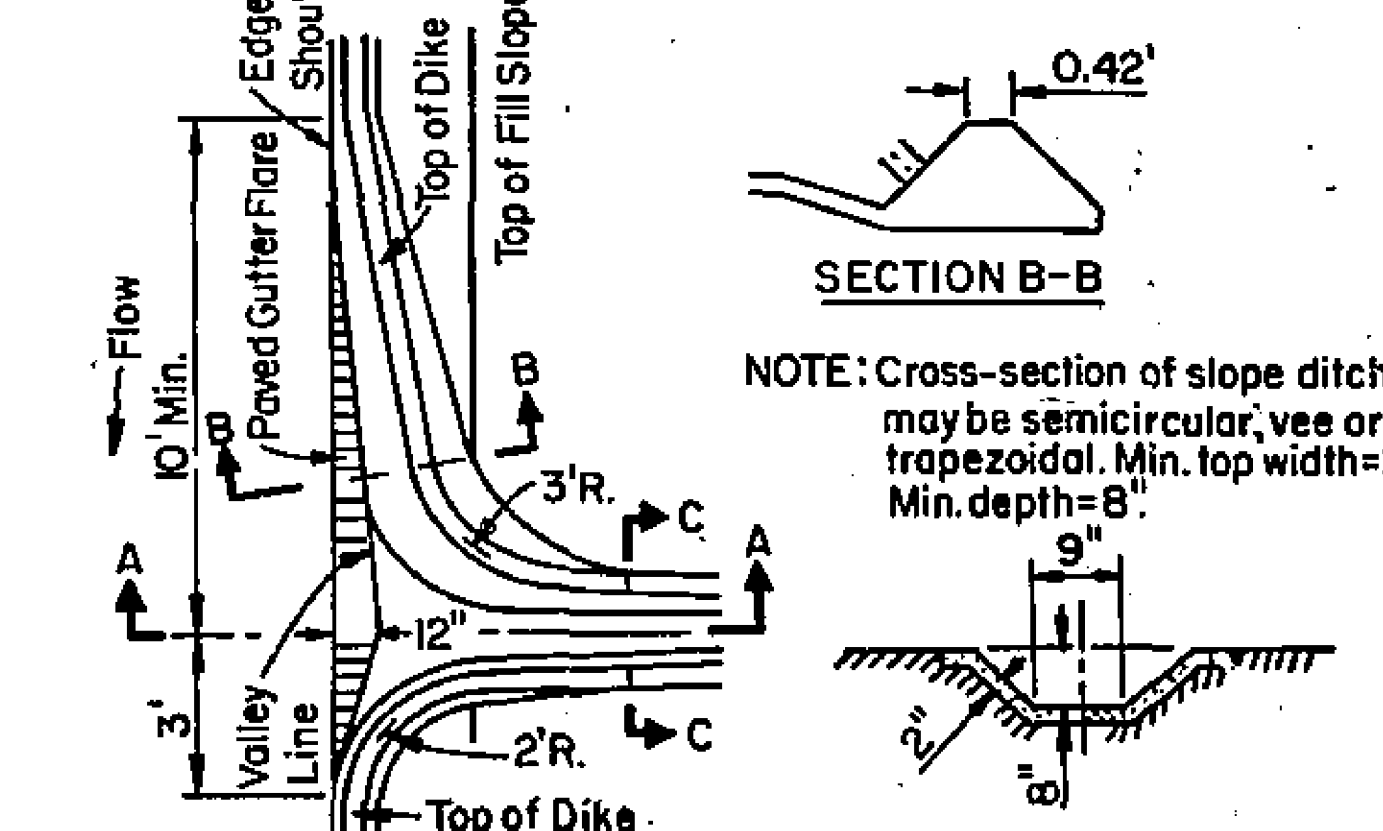
PLAN



TAPERED INLET



SECTION A-A



SECTION B-B

SECTION C-C

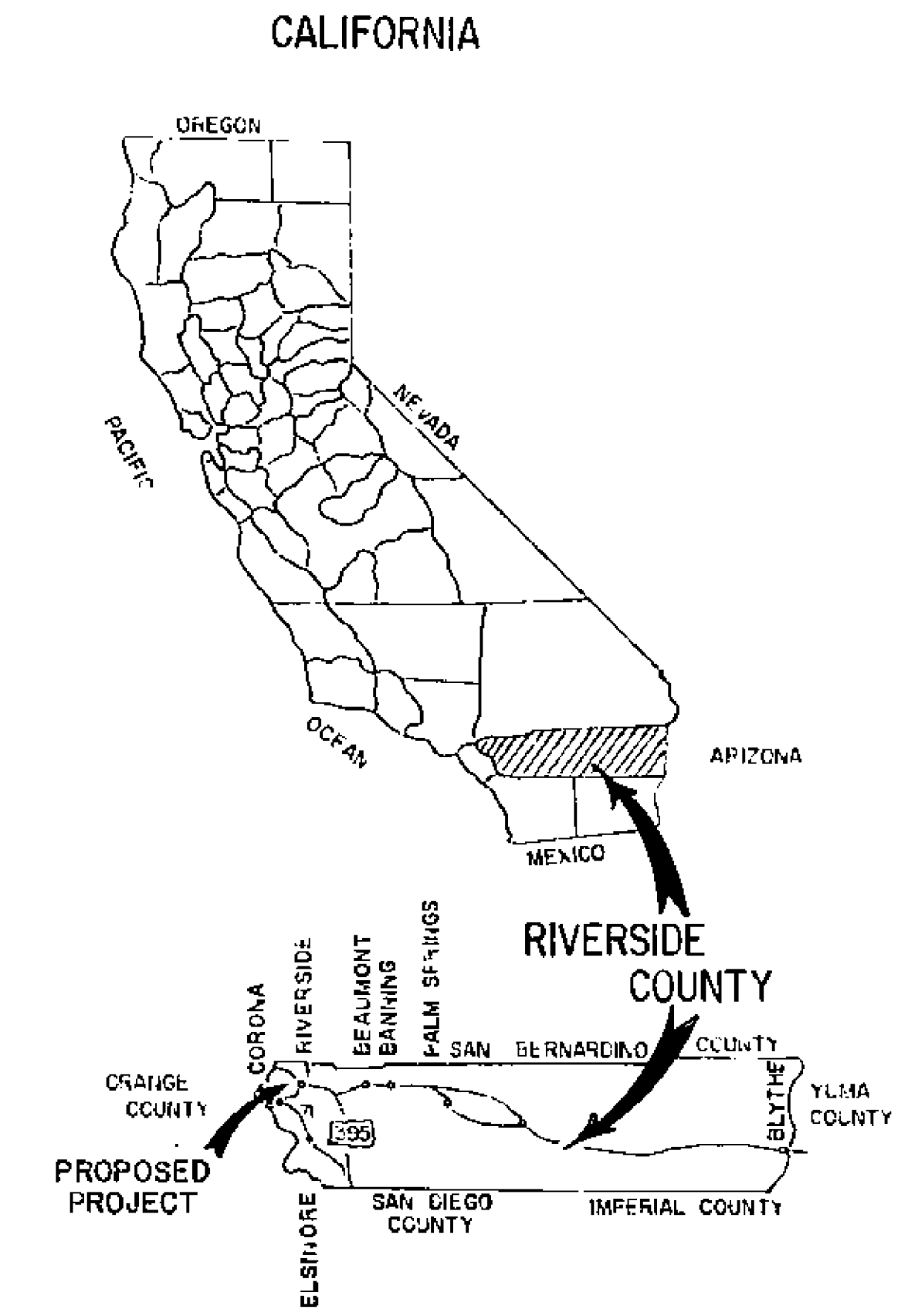
NOTE: Cross-section of slope ditch may be semicircular, vee or trapezoidal. Min. top width=25" Min. depth=8"

ASPHALT CONCRETE OVERSIDE DRAINS

To be used on fill slopes flatter than 2:1. Use min. 10' length of gutter on both sides in a sag location.

**SPECIAL DETAILS
 OVERSIDE DRAINS**

STATE OF CALIFORNIA
 BUSINESS AND TRANSPORTATION AGENCY
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 PROJECT PLANS FOR CONSTRUCTION
 IN RIVERSIDE COUNTY IN RIVERSIDE
 FEDERAL AID EMERGENCY RELIEF PROJECT NO. ER-459 (5)
 VAN BUREN BOULEVARD
 AT AND NEAR THE SANTA ANA RIVER

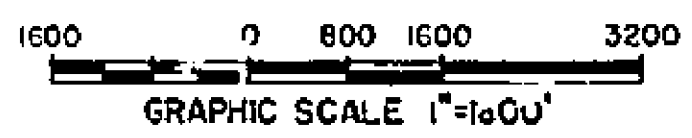
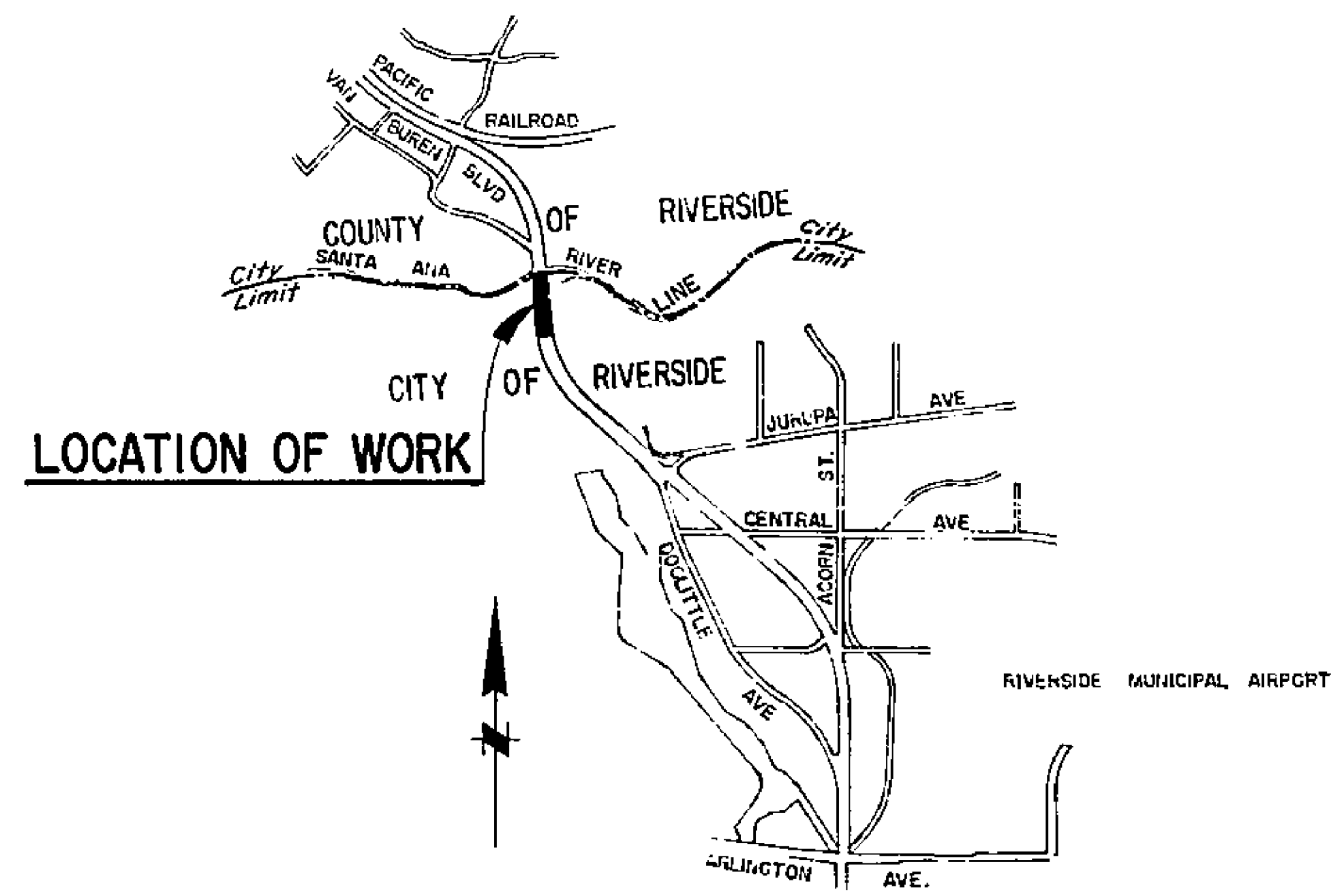


LENGTH OF PROJECT = 0.19 MI.

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE PAGE
2	DETOUR PLAN
3	SURVEY TIES
4	GRADING PLAN
5	PLAN & PROFILE SOUTH BOUND LANE
6	PLAN & PROFILE NORTH BOUND LANE
7	DETAILS
8	FOUNDATION PLAN
9	GENERAL PLAN
10	ABUTMENT DETAILS
11	PIER #8 DETAILS
12	PIER #16 DETAILS
13	TYPICAL PIER DETAILS
14	TYPICAL PIER AND PILE CAP
15	TYPICAL BOX GIRDER SECTION
16	BOX GIRDER BOTTOM REINFORCEMENT
17	BOX GIRDER TOP REINFORCEMENT
18	CONSTRUCTION JOINT AND HINGE DETAILS
19	MISCELLANEOUS BRIDGE DETAILS
20	METAL TUBE BRIDGE RAILING TYPE 16
21	BRIDGE APPROACH GUARD RAILING TYPE 15 AND 15A
22	LOG OF TEST BORINGS
23	LOG OF TEST BORINGS
24-26	SPECIAL DETAILS
1-3	CROSS-SECTIONS

- APPLICABLE STANDARD PLAN SHEETS**
- A62-A2
 - A62-B2
 - FS1-2
 - A73-7



AS BUILT
 Contract 08-480204
 No corrections: D.P. Volkach, R.E.
 12-7-71

- LEGEND**
1. [Symbol] EXIST. RIP RAP
 2. [Symbol] BRUSH
 3. [Symbol] ROCK SLOPE PROTECTION
 4. [Symbol] A.C. PAVEMENT VAR. THICKNESS OVERLAY
 5. [Symbol] PILES
 6. [Symbol] TELEPHONE CONDUIT
 7. [Symbol] GUARD RAILING
 8. [Symbol] A.C. DIKE
 9. [Symbol] R/W
 10. [Symbol] PROPOSED CONTOURS
 11. [Symbol] EXIST. CONTOURS
 12. [Symbol] MANHOLE
 13. [Symbol] TOP OF SLOPE
 14. [Symbol] TOE OF SLOPE
 15. [Symbol] EXIST. ASPHALT

STATE OF CALIFORNIA

CITY & COUNTY PROJECTS ENGINEER-R.C.E. NO. 6522
R.E. Dellebach
 DISTRICT ENGINEER - R.C.E. NO. 7369
 APPROVED September 28, 1970

BY _____
 DEPUTY STATE HIGHWAY ENGINEER
 REGISTERED CIVIL ENGINEER NO. 5630

Contract No. 08-480204

JOHNSON & NIELSEN ASSOCIATES KOEBIG & KOEBIG INC. RIVERSIDE, CALIFORNIA <i>Henry L. Nielsen</i> R.S.E. NO. 711		CITY OF RIVERSIDE, CALIFORNIA DEPARTMENT OF PUBLIC WORKS	VAN BUREN BOULEVARD SANTA ANA RIVER BRIDGE CROSSING TITLE PAGE	PROJECT NO. R1394
		DESIGNED BY: A.T. DRAWN BY: A.G. CHECKED BY: A.M.	APPROVED BY: _____ BY: _____ DATE: _____ OFFICE ENGINEER PARK DEPARTMENT TRAFFIC DIVISION ASSISTANT CITY ENGINEER	APPROVED BY: _____ DIRECTOR OF PUBLIC WORKS

HORIZ. SCALE: 1" = AS SHOWN VERT. SCALE: 1" =