

NO.	DATE	BY	REVISION
1			
2			
3			
4			
5			
6			
7			

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BRIDGE PLANS

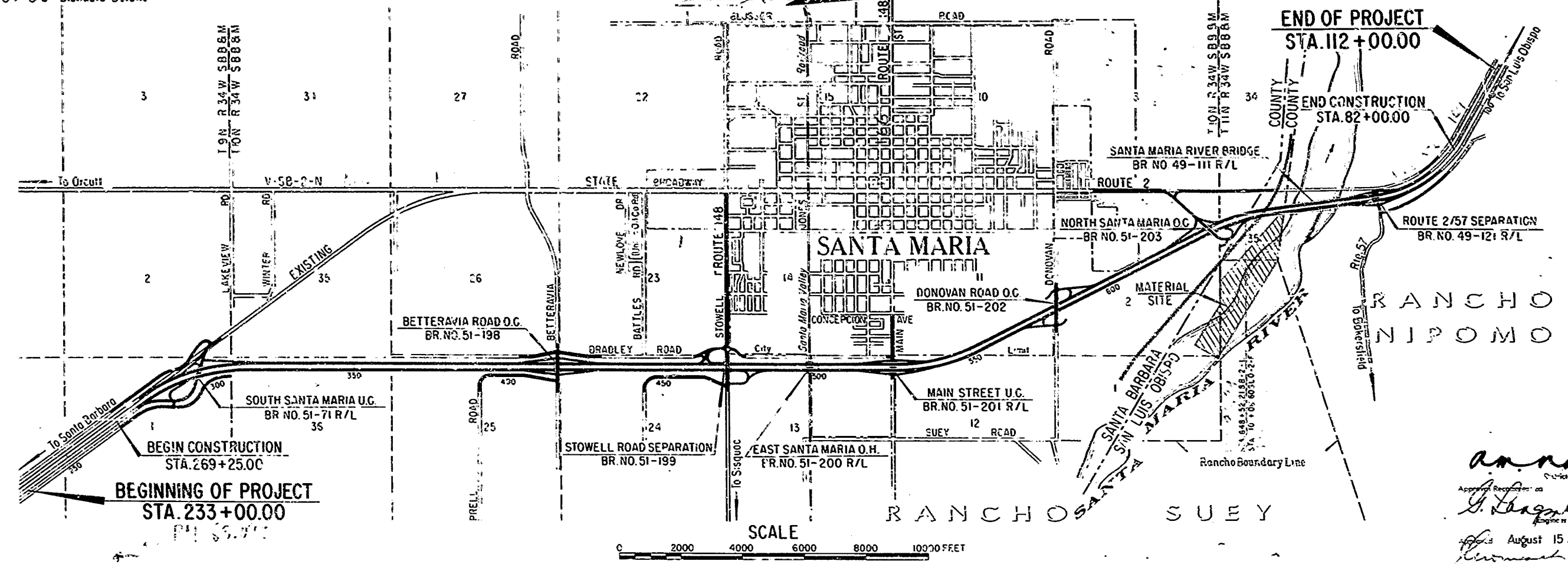
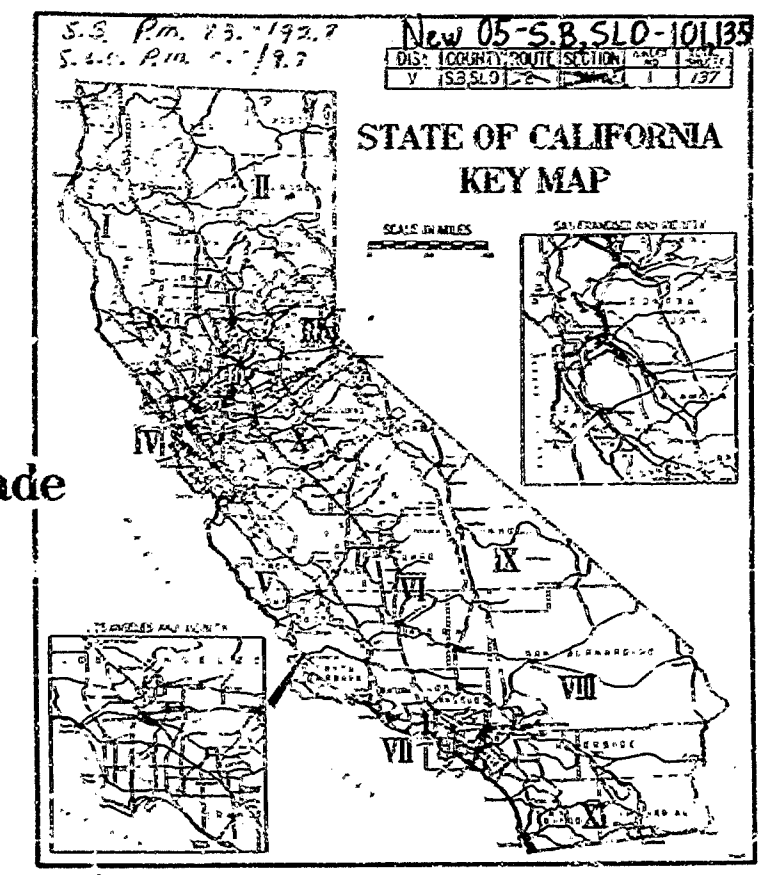
1-67	Bridge Structures (Index to B' Plans)
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C-1-C-6	Stowell Road Separation
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AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

PLANS FOR CONSTRUCTION ON
STATE HIGHWAY
 In Santa Barbara and San Luis Obispo Counties
 on Route 2 between 4 miles south of Santa Maria and Hourihan Grade
 with Connection to Santa Maria on Route 148

(being the detail plans of a portion of the route for the State highway accepted by the California Highway Commission) On March 24, 1955, April 20, 1955 and declared a FREEWAY by resolution of the California Highway Commission March 24, 1955 and April 20, 1955.

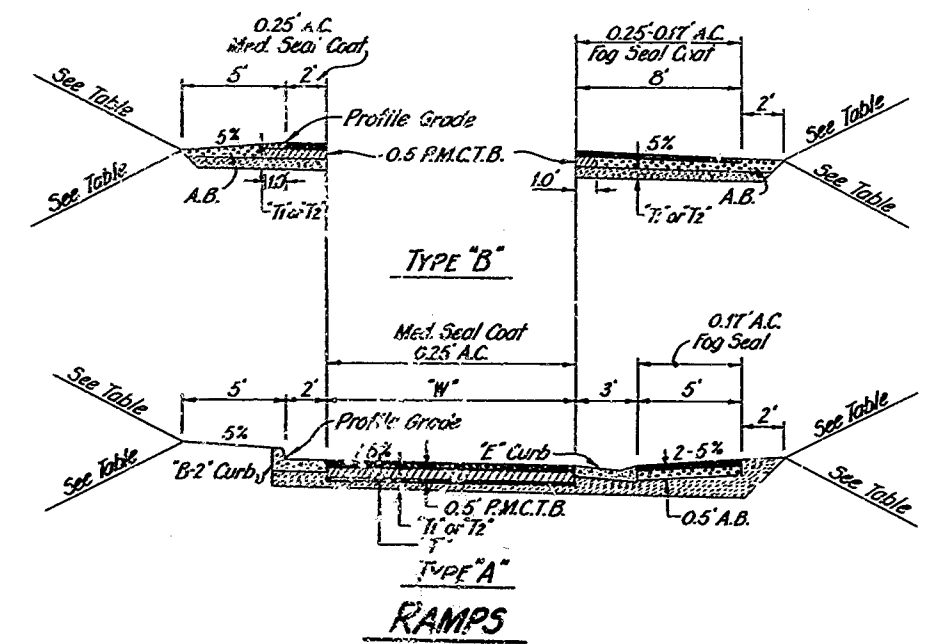


Length of Construction 8.545 Miles
 Length of Project 9.80 Miles

61-5V13C11

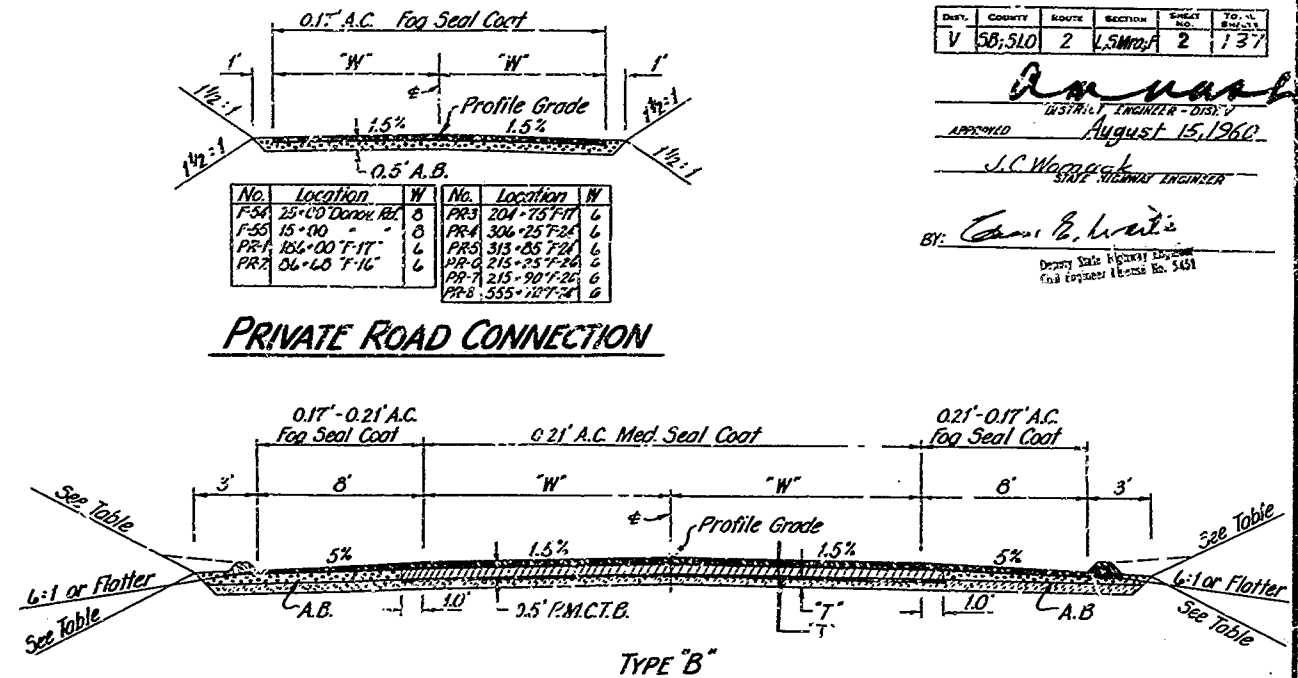
Amnash
 August 15, 1960
 August 15, 1960
 August 15, 1960

DESIGNED BY: *Amundson*
 DATE: August 15, 1960
 CHECKED BY: J.C. Wagner
 DRAWN BY: *Carl E. Weitz*
 DRAWING SCALE: 1" = 40' (PLAN)
 FULL DIMENSIONS SHOWN ON 1:1



RAMP				
No.	Type	"W"	"S.M." or "A.S."	Side Slopes
10	B	12'	0.5' A.S.	2 1/2:1 Max.
11	B	12'	0.5' A.S.	2 1/2:1 Max.
12	B	12'	0.5' A.S.	2 1/2:1 Max.
13	B	12'	0.5' A.S.	2 1/2:1 Max.
20	B	12'	0.5' A.S.	2:1 Max.
21	B	12'	0.5' A.S.	2:1 Max.
22	B	12'	0.5' A.S.	2:1 Max.
23	B	12'	0.5' A.S.	2:1 Max.
30	A & B	12'-24"	0.5' A.S.	
31	A & B	12'-24"	0.5' A.S.	
32	A	12'-24"	0.5' A.S.	
33	A & B	12'-24"	0.5' A.S.	
40	A	12'-24"	0.5' A.S.	
41	A	12'-24"	0.5' A.S.	
42	A	12'-24"	0.5' A.S.	
43	A	12'-24"	0.5' A.S.	
50	A & B	12'-24"	0.5' A.S.	
51	A	12'	0.5' A.S.	
52	A & B	12'-24"	0.5' A.S.	
53	A & B	12'-24"	0.5' A.S.	
60	A	12'	0.5' A.S.	
61	A	12'	0.5' A.S.	
62	A	12'	0.5' A.S.	
63	A	12'	0.5' A.S.	
64	A	12'	0.5' A.S.	
70	B	12'-24"	0.5' A.S.	
71	B	12'-24"	0.5' A.S.	
72	B	12'-24"	0.5' A.S.	
73	B	12'-24"	0.5' A.S.	

* 24' Width has 2-way crown slope and 8' shoulders on both sides.

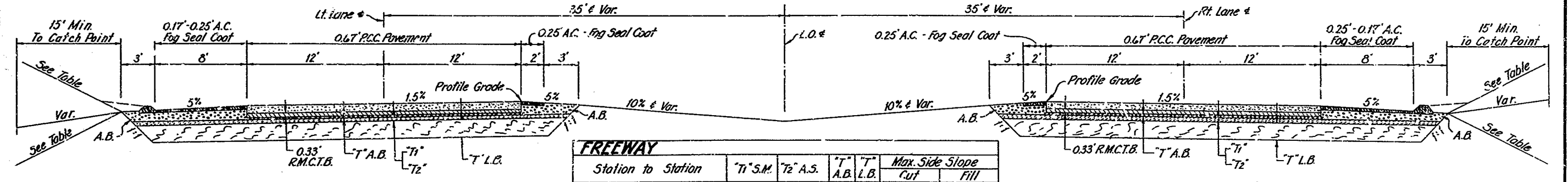
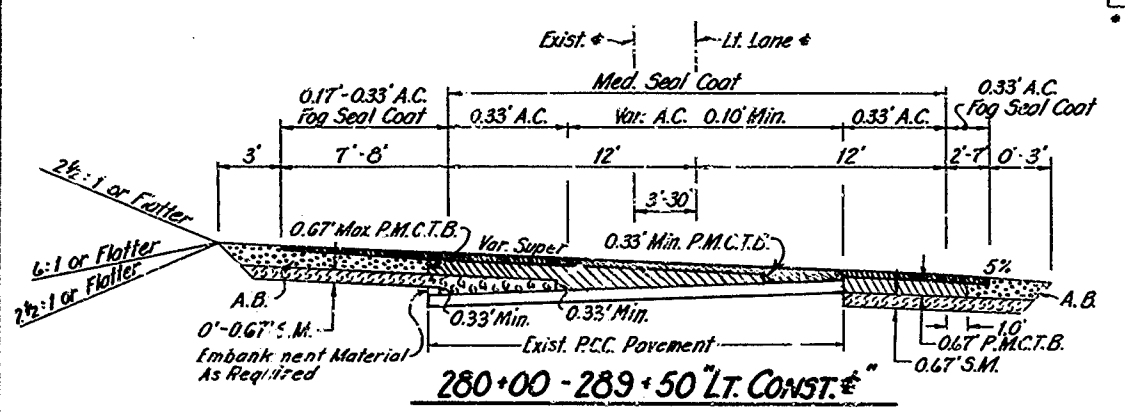


TYPE B FRONTAGE ROADS			
No.	"W"	"S.M." or "A.S."	Side Slopes
10	12'	0.5' A.S.	2 1/2:1 Max.
64	12'-24"	0.5' A.S.	2:1 Max.

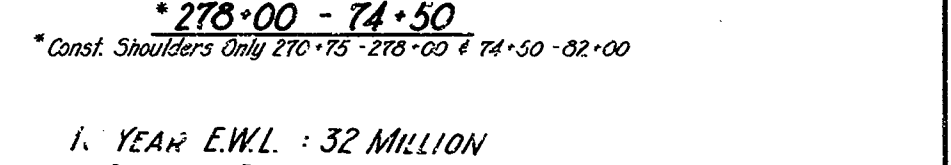
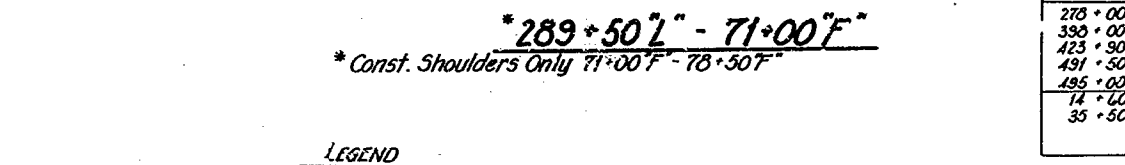
* See N. Broadway Section Also

TYPE A FRONTAGE ROADS				
No.	"W"	"S.M." or "A.S."	"T"	Side Slopes
F-16	0.5'	0	0	2 1/2:1 Max.
F-17	0	0	0	2:1 Max.
F-24	0	0	0	2:1 Max.
F-25	0	0	0	2:1 Max.
F-26	0.5'	0	0	2:1 Max.
F-34	0	0	0	1 1/2:1 Max.
F-35	0	0	0	2:1 Max.
F-36	0	0	0	2:1 Max.
F-45	0	0	0	1 1/2:1 Max.
F-74	0	0	0	1 1/2:1 Max.
F-75	0	0	0	1 1/2:1 Max.
Wichman Rd.	0	0	0	1 1/2:1 Max.

* 1.5% 2-Way Crown Slope
 † Resurface Exist. Pvt. 33+10 to 101+10
 See Detour Sect. 70+00 to 33+10



FREEWAY						
Station to Station	"T" S.M.	"T" A.S.	"T" A.B.	"T" L.B.	Max. Side Slope	
275+00' - 390+00'	0.33'	0	0.17'	0	2 1/2:1	2 1/2:1
390+00' - 423+90'	0	0	0.17'	0	2:1	2:1
423+90' - 491+50'	0	0	0.17'	0	2:1	2:1
491+50' - 495+00'	0	0	0.17'	0	2:1	2:1
495+00' - 14+40'	0	0.33'	0.17'	1.5'	2:1	2:1
14+40' - 35+50'	0	0	0	0	2:1	2:1
35+50' - 74+30'	0	0.33'	0.17'	1.5'	2:1	2:1



AS BUILT PLANS
 Contract No. 61-5V13C11
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 Document No. 52000536

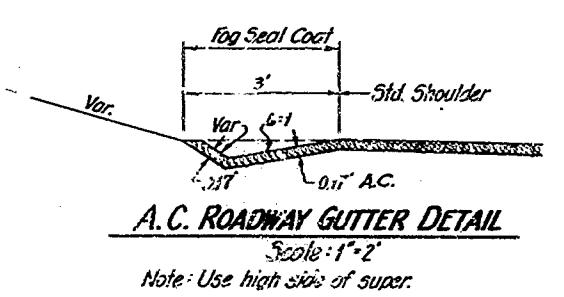
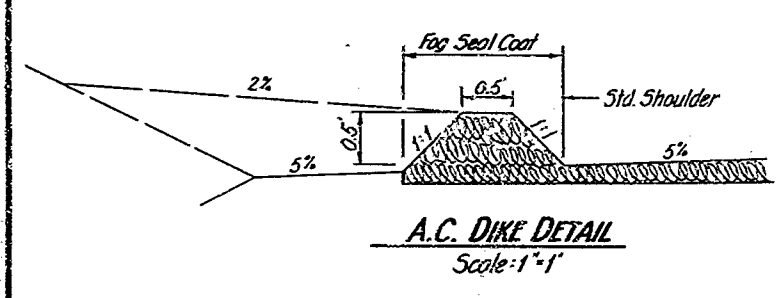
LEGEND
 P.C.C. - Portland Cement Concrete
 A.C. - Asphalt Concrete, Type B
 P.M.C.T.B. - Plant-Mixed Cement Treated Base, Class B
 R.M.C.T.B. - Road-Mixed Cement Treated Base, Class B
 A.B. - Aggregate Base, Class 2
 S.M. - Selected Material
 L.B. - Local Borrow
 A.S. - Aggregate Subbase, Class 2

(V-SB; SLO-2-L, S.Mra; F)
 4 MI. S. OF SANTA MARIA TO HOURIHAN GRADE
 Scale: 1" = 5'

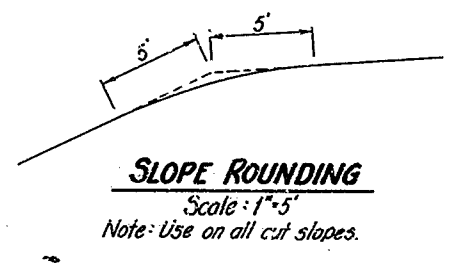
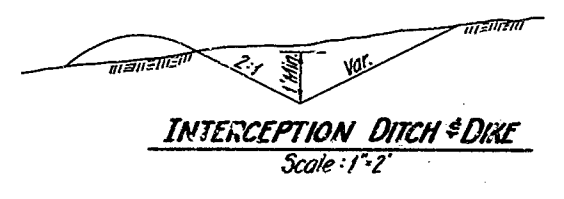
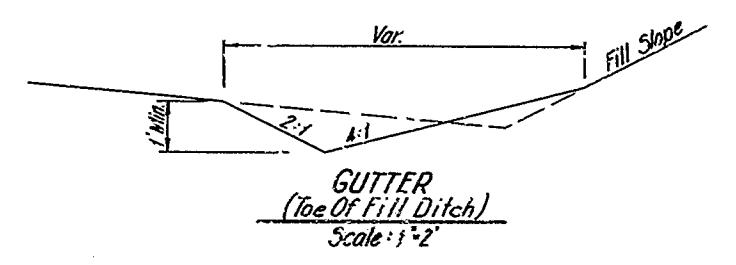
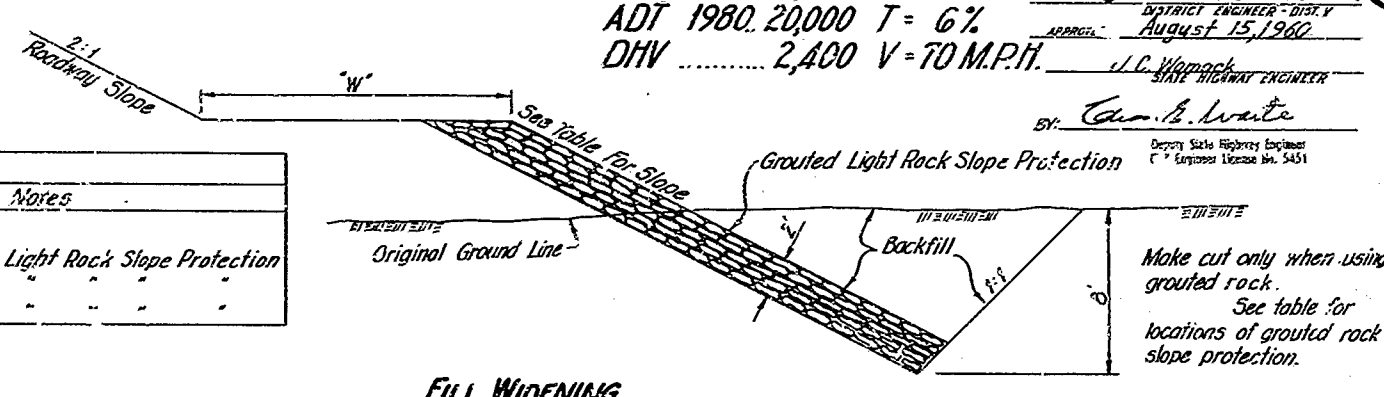
1. YEAR E.W.L. : 32 MILLION
 DESIGN DESIGNATION:
 ADT 1959... 11,150 D=60%
 ADT 1980 20,000 T=6%
 DHV 2,400 V-TOM.P.H.
 61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J.E. Snyder	9/2/60	Amundson	8/15/60	J.C. Wagner	9/6/60

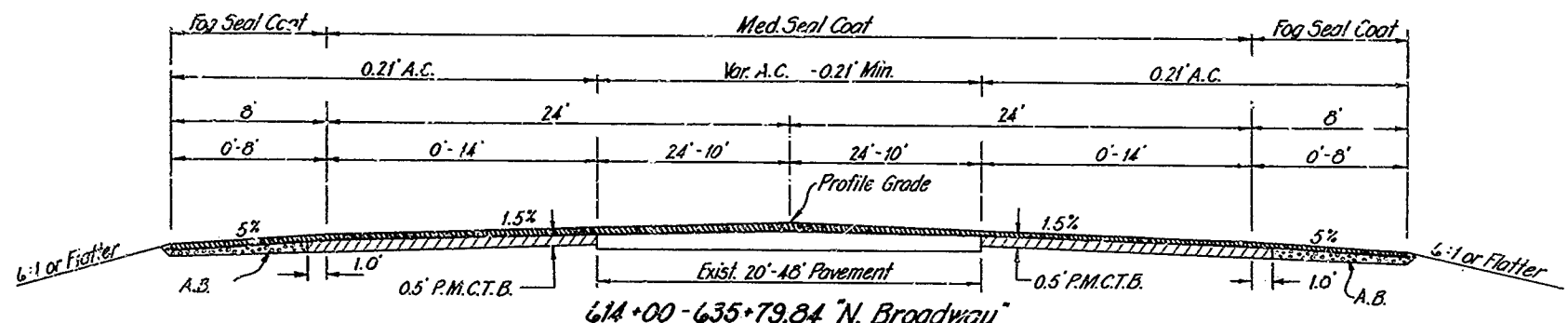
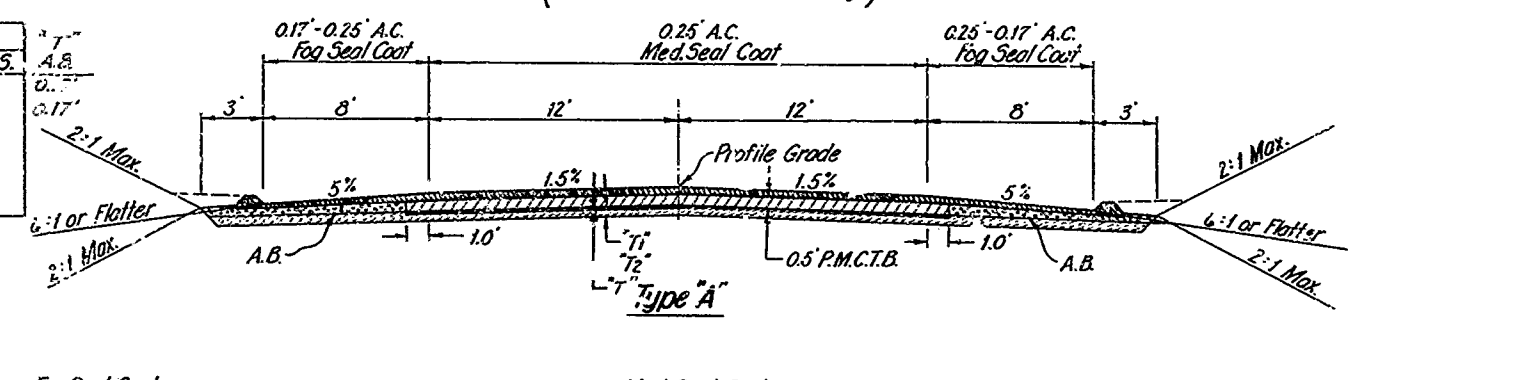
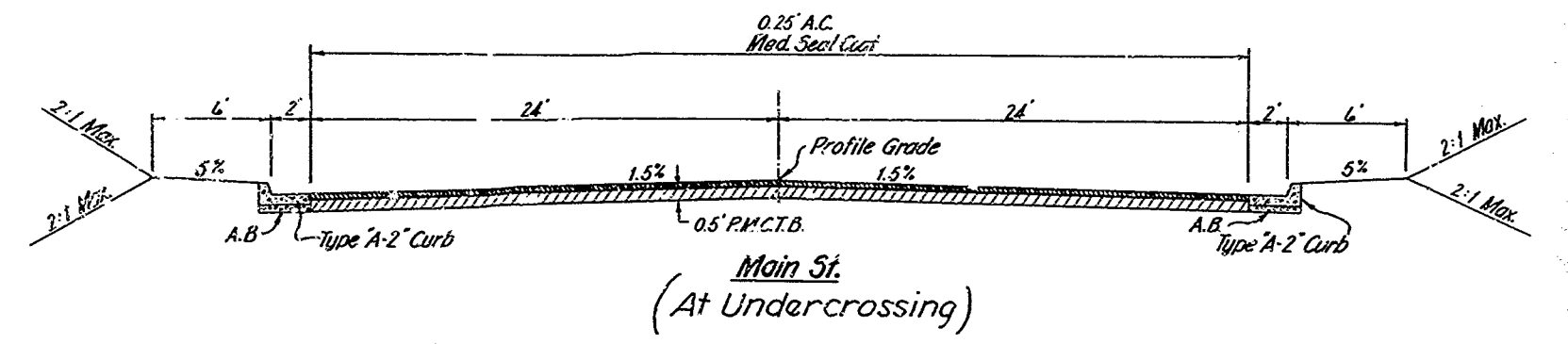
10 YEAR E.W.L. : 32 MILLION
 DESIGN DESIGNATION: V-5B;SLO-2-L,S.M.F.;F
 ADT 1959..11,150 D=60%
 ADT 1980.20,000 T=6%
 DHV 2,400 V=70 M.P.H.



FILL WIDENING				
Station to Station	Line	"W"	Slope	Notes
12+00	14+00 R.H.L.	L.O.S.	15+0	Use Grouted Light Rock Slope Protection
36+00	39+00 L.L.	-	16' 24'-1	



TYPE "A" ROADS			
Name	W.S.M.	T.S.A.S.	A.B.
Betteravia Rd.	0	0	0.17
Stonewell Rd.	0	3	0.17
Donovan Rd.	0	0.5	-



(V-5B; SLO-2-L, S.M.F.; F)
 4 MI. S. OF SANTA MARIA TO HOURIHAN GRADE
 Scale: As Shown
TYPICAL CROSS-SECTIONS

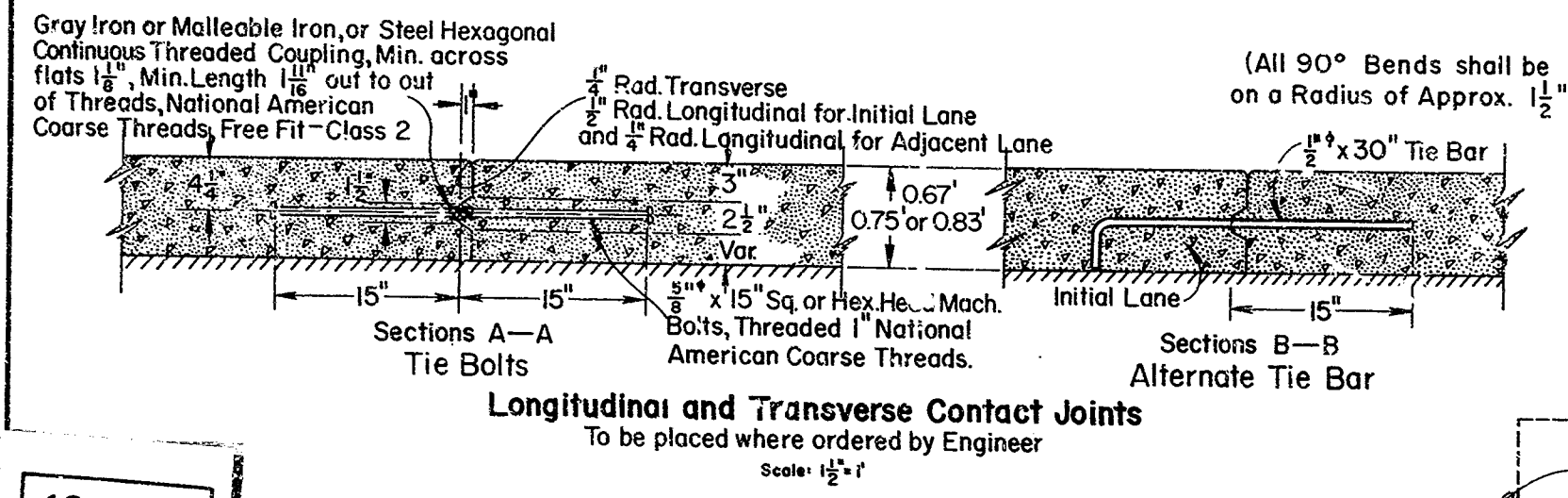
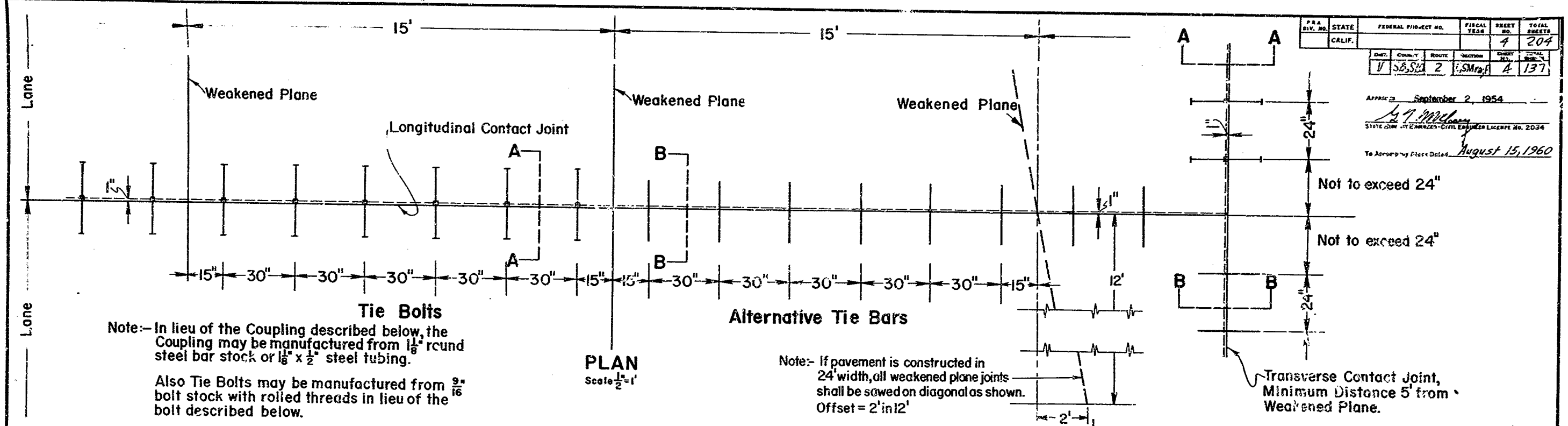
Note: See 100 Scale Layout Sheets for Additional Typical Cross-Sections

61-5V13C11
 J. P. ...
 J. P. ...

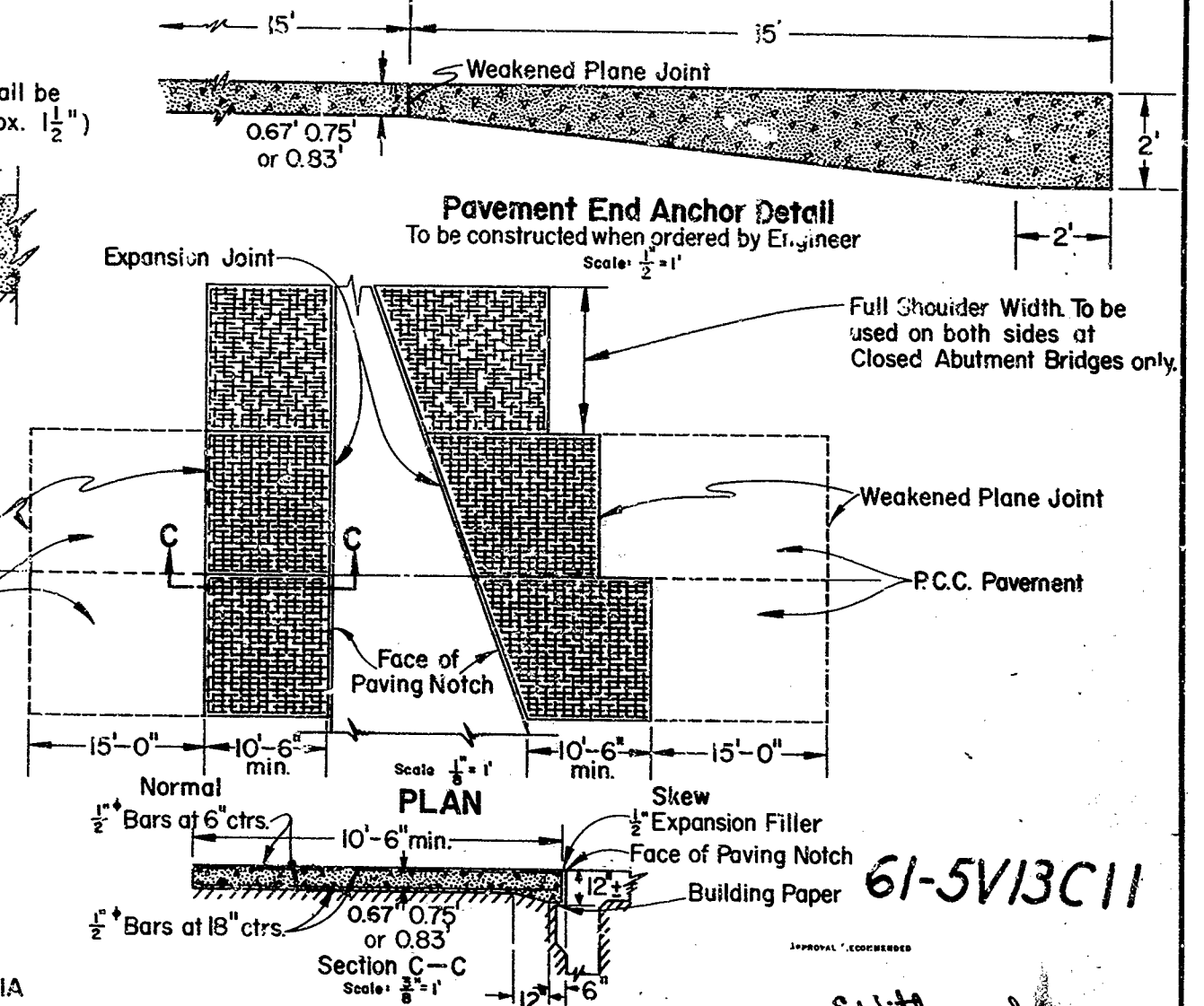
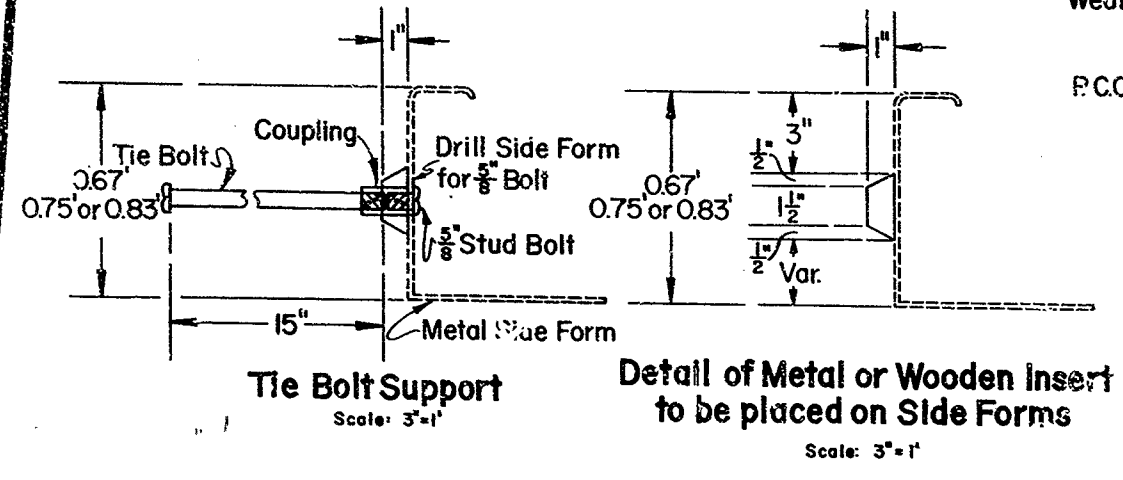
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
G. E. Snyder	7/60	J. P. ...	7/60	J. P. ...	J. P. ...	7/60

Note: Dimensions are subject to tolerances specified in the Standard Specifications



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

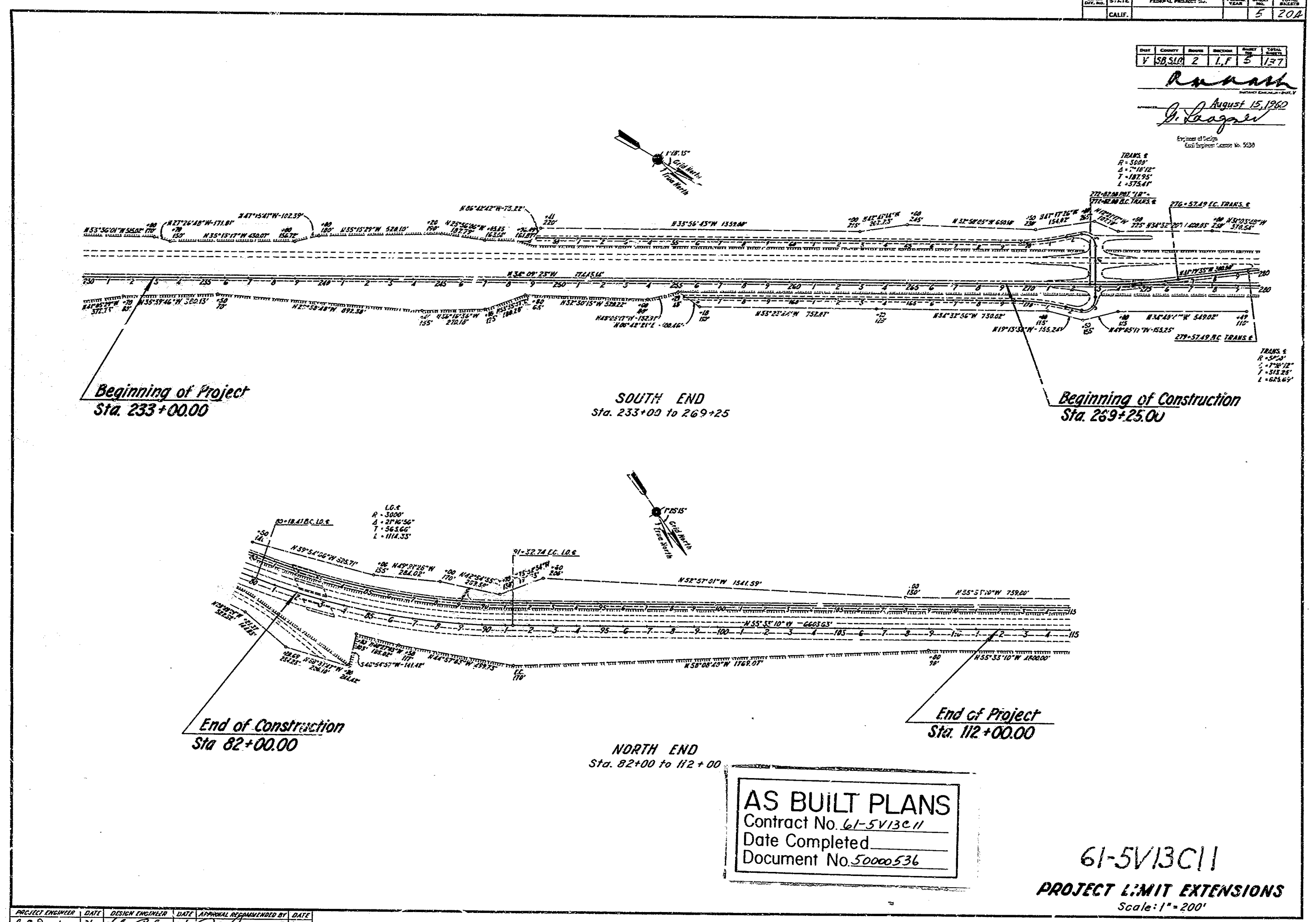


STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
PAVING DETAILS

FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			5	204

DATE	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	2	L.F	5	157

R. Laagren
 August 15, 1960
J. Laagren
 Engineer of Civil
 Exp. Eng. License No. 5028

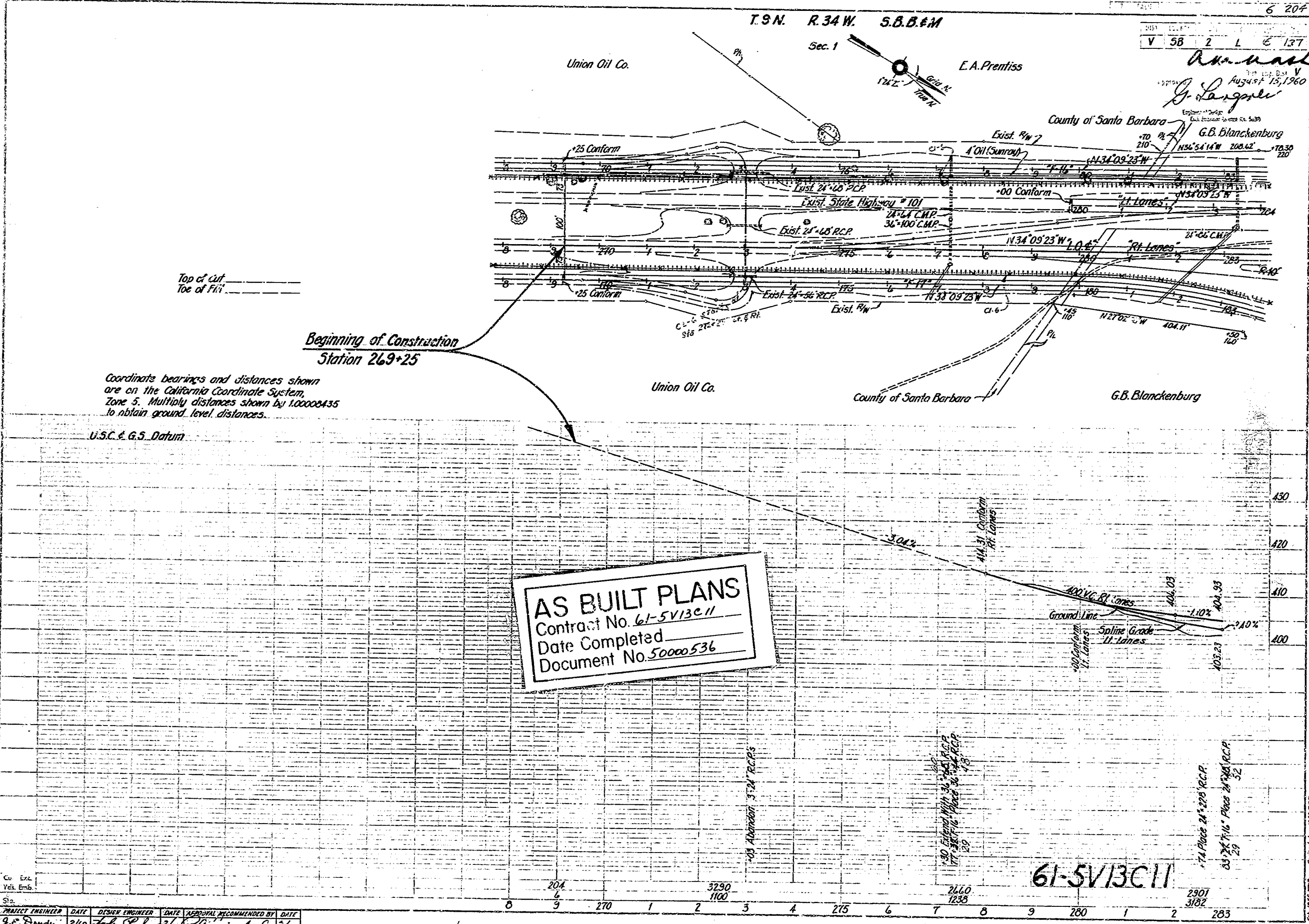


AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
PROJECT LIMIT EXTENSIONS
 Scale: 1"=200'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL SUPERVISOR	DATE
J. E. Dwyer	7/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	7/60

5



6 207
 V 56 Z L E 137
 August 15, 1960
 G. Langley
 G.B. Blanckenburg

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

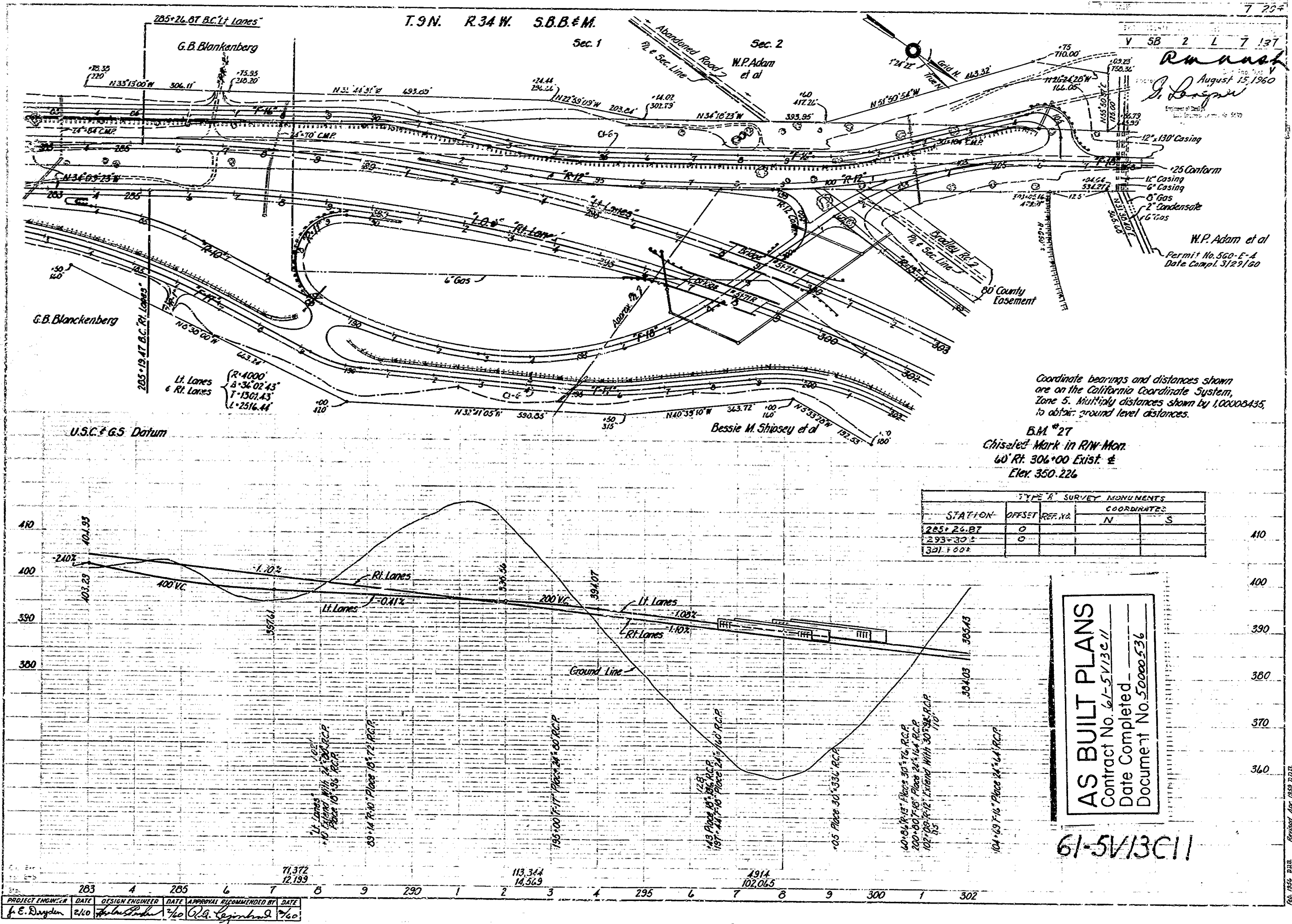
Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.

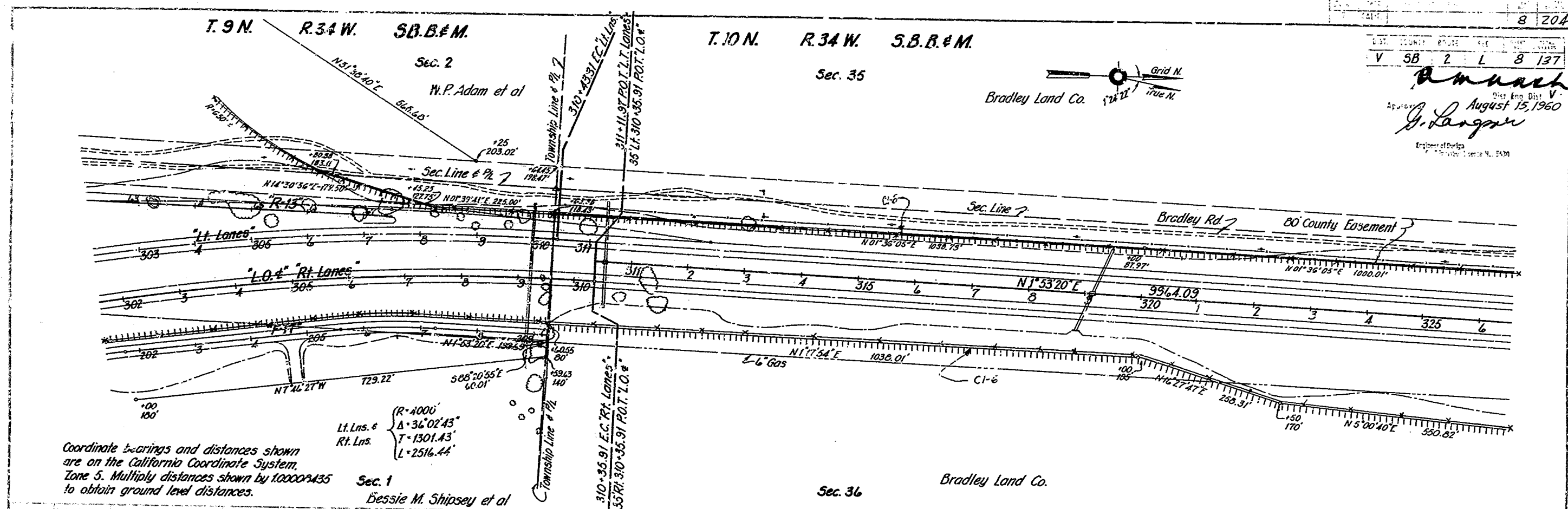
U.S.C. & G.S. Datum

PROJECT ENGINEER	DATE	DRAWN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
G.E. Dayden	2/60	F.H. ...	...	...	...	...

61-5V13C11

REV. 055 TMR. APPROVED APR 1960 2023





8 204

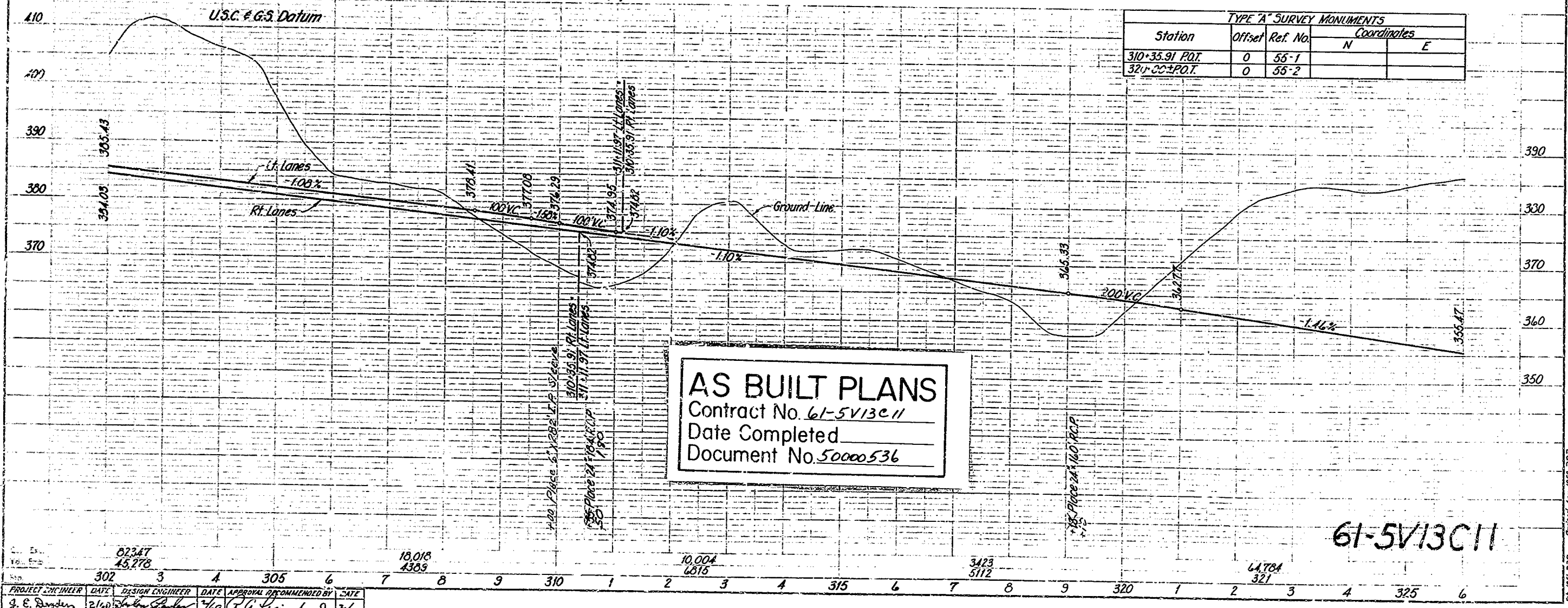
V SB 2 L 8 137

R. M. ...

August 15, 1960

J. ...

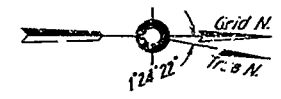
Engineer of Public Works



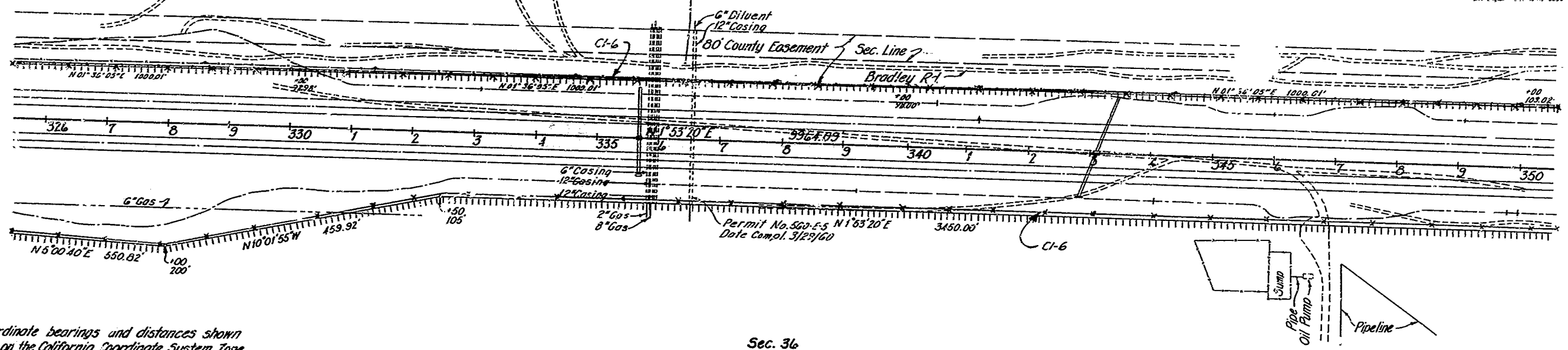
PROJECT CHECKER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. ...	2/60	...	...	...	7/60

T. 10 N. R. 34 W. S.B.B.#M.

Sec. 35
Bradley Land Co.



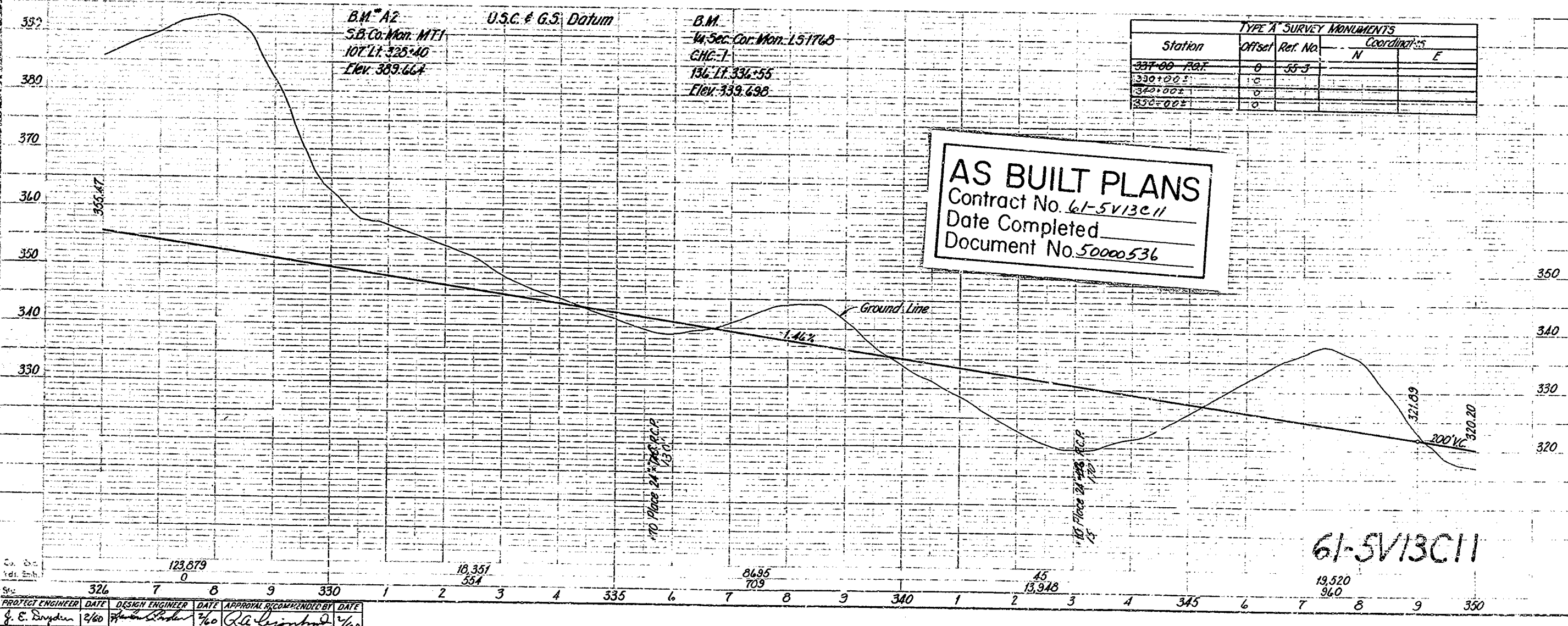
V 5B 2 L 9 137
Approved: *R. M. Wash*
August 15, 1960
J. Langston
Department of Public Works
Civil Engineer License No. 5530



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.0000435 to obtain ground level distances.

Sec. 36

Bradley Land Co.



Station	Offset	Ref. No.	Coordinates	
			N	E
337+00	0	55-3		
330+00	10			
340+00	0			
350+00	0			

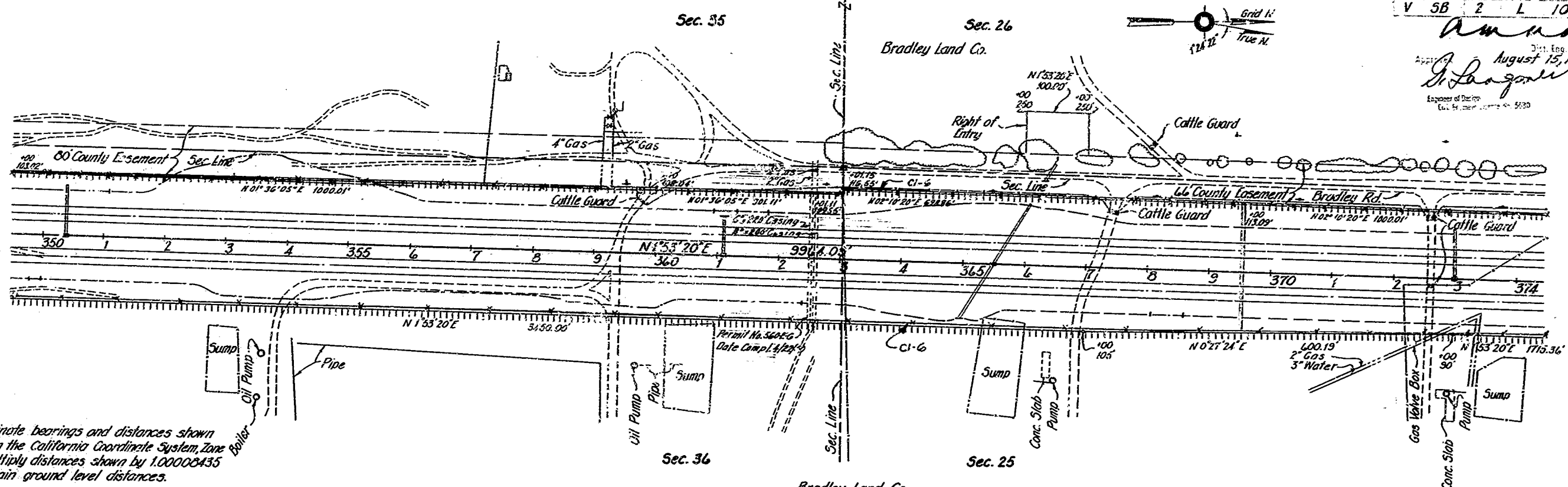
AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Snyder	1960	<i>[Signature]</i>	7/6	<i>[Signature]</i>	<i>[Signature]</i>	7/6

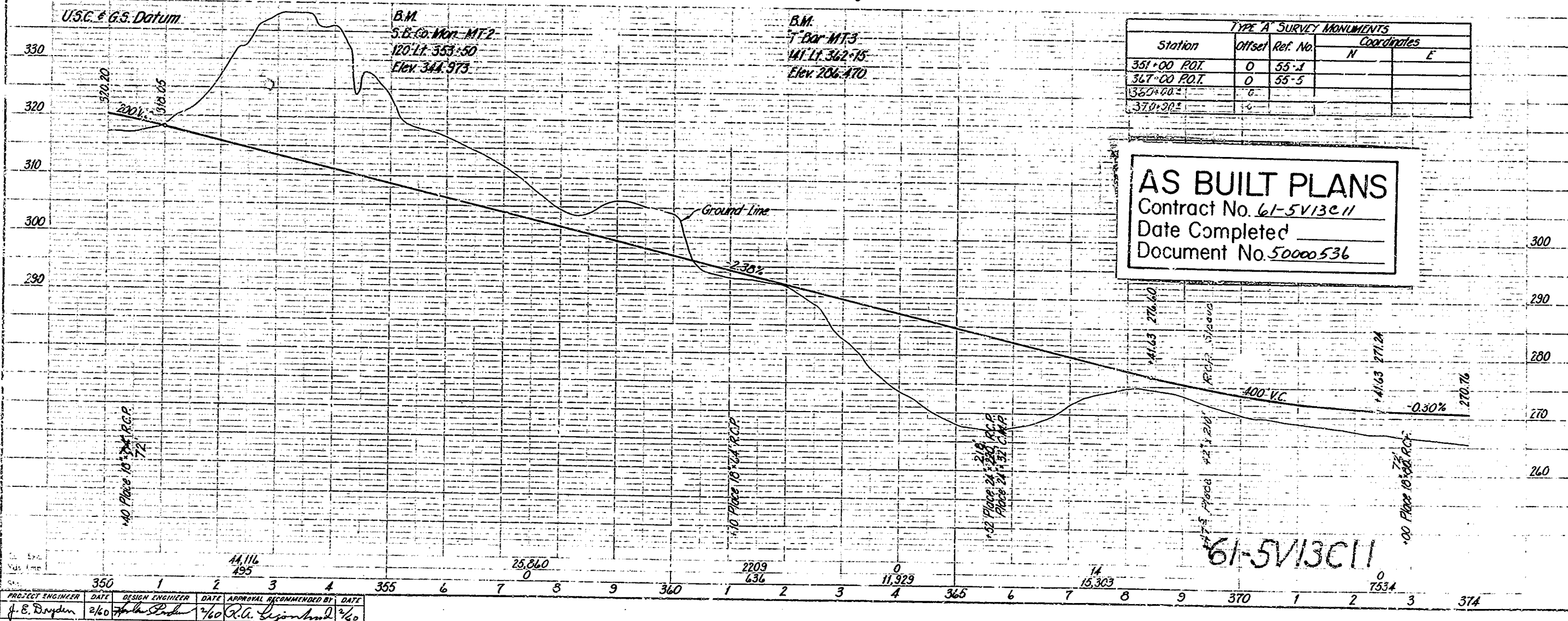
T.12N. R.34W. S.B.B&M.

10 204



V 5B 2 L 10 137
 August 15, 1950
 [Signature]

Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.0000435 to obtain ground level distances.



TYPE 'A' SURVEY MONUMENTS			
Station	Offset	Ref. No.	Coordinates
			N E
351+00 P.O.T.	0	55-1	
367+00 P.O.T.	0	55-5	
360+00 P.T.	0		
370+00 P.T.	0		

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
f. B. Boyden	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

10

T. 10 N. R. 34 W. S. B. & M.

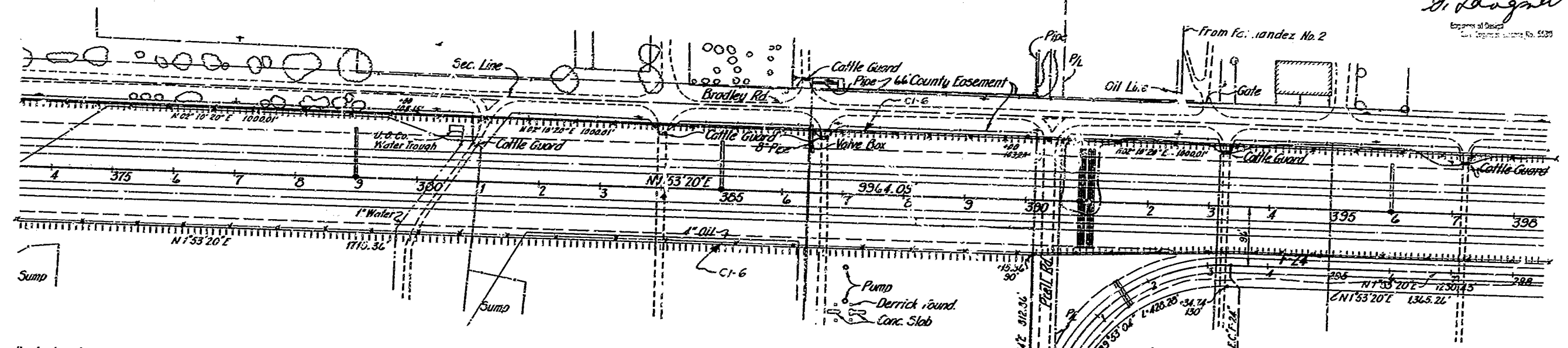
Bradley Land Co. Sec. 26

11 207

V 5B 2 L 11 137

Mary Rush et al

Amash
August 15, 1960
H. Dagner
Professional Engineer No. 5528



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00005435 to obtain ground level distances.

Bradley Land Co. Sec. 25

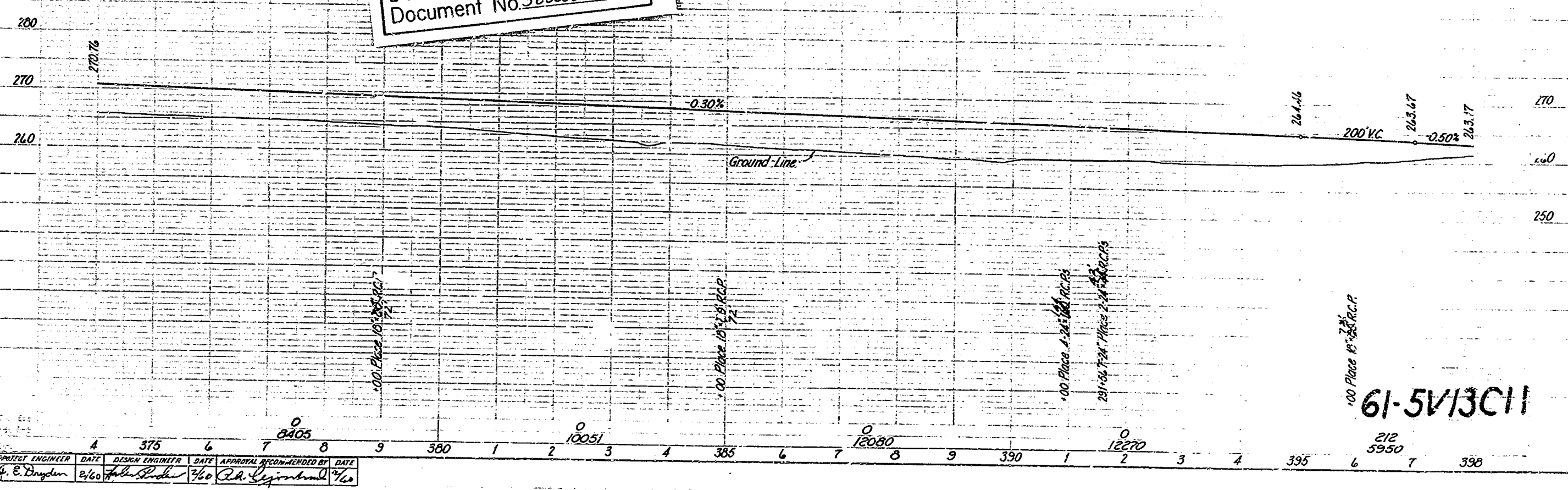
Harold Rosenblum et al

U.S.C. & G.S. Datum

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

B.M. *C2
Canc. Mon. 1.5.2019
C.I.E. 3
111'-11"-350.15
Elev. 240.255

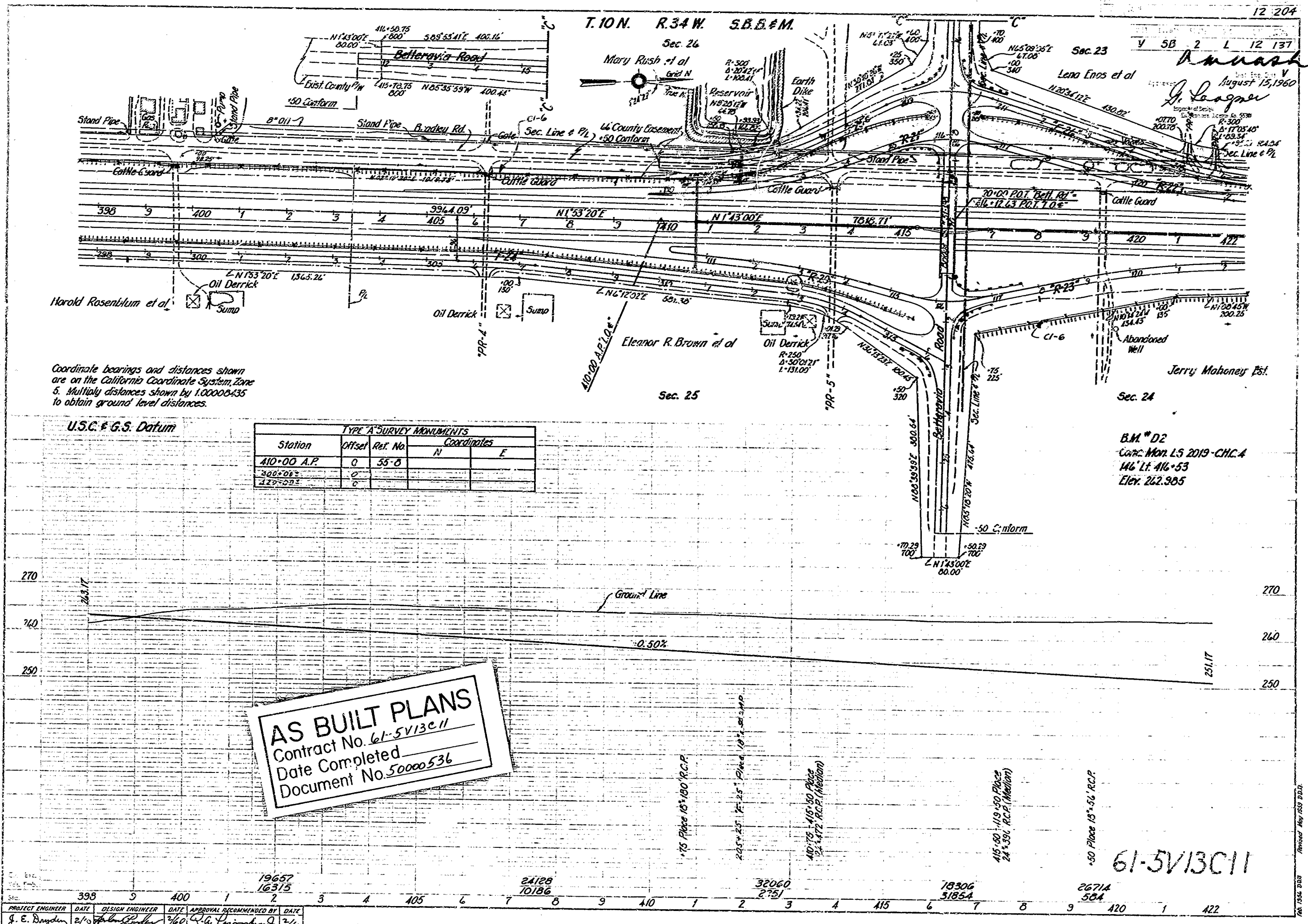
Station	TYPE 'A' SURVEY MONUMENTS		Coordinates	
	Offset	Ref. No.	N	E
381+00 P.O.T.	0	55-6-		
387+00 P.O.T.	0	55-7-		
399+00	0			
390+00	0			



PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Douglas	2/60	H. Dagner	7/60		H. Dagner	7/60

61-5V13C11

REVISED MAY 1960 DISE



PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Snyder	2/10	[Signature]	2/60	[Signature]	2/60

12

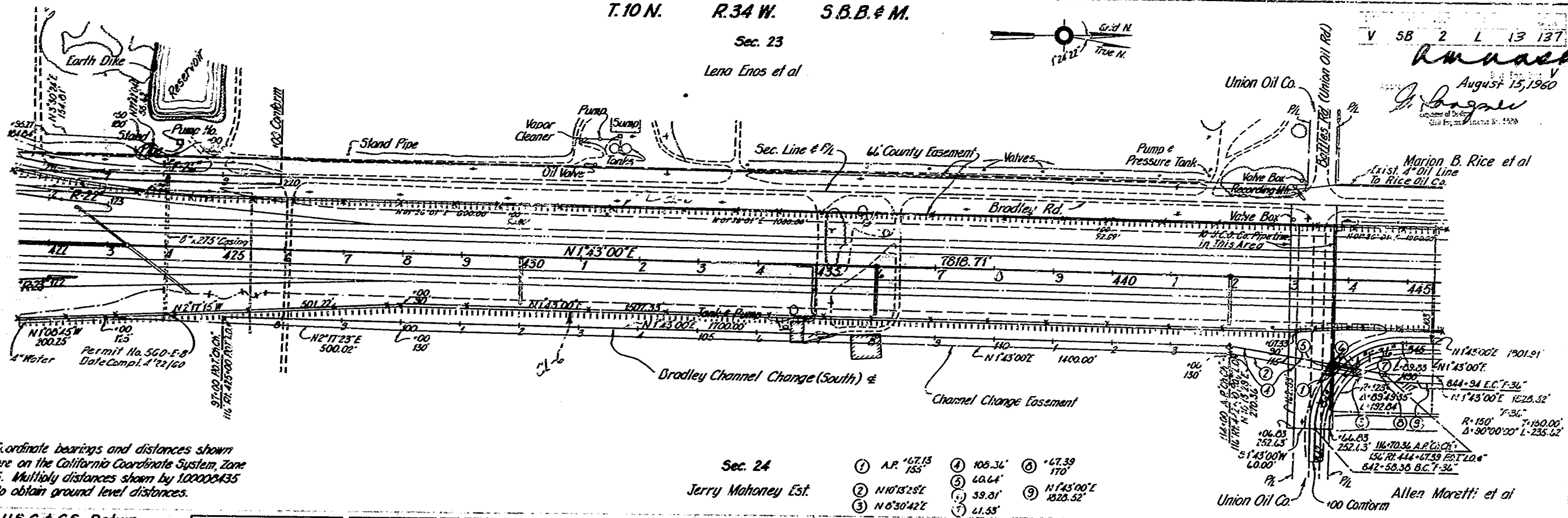
T.10 N. R.34 W. S.B.B. & M.

Sec. 23

Lena Enos et al

13 204

V 58 2 L 13 137



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.

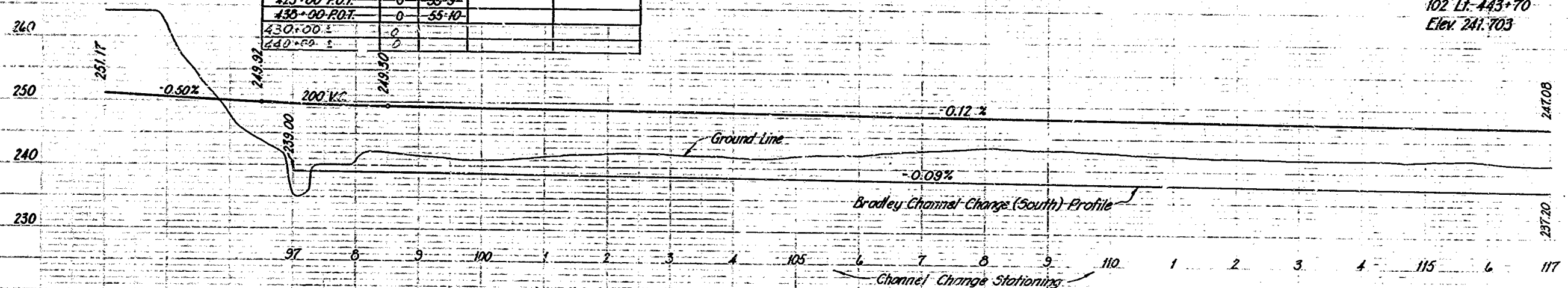
Sec. 24

Jerry Mahoney Est.

- ① N 67.15° E 155'
- ② N 107.5° E 282'
- ③ N 65.0° E 422'
- ④ 108.36'
- ⑤ 66.64'
- ⑥ 61.55'
- ⑦ 67.39° 170'
- ⑧ N 74.5° 00' E 1020.52'
- ⑨ 61.55'

U.S.C. & G.S. Datum

Station	Offset	Ref. No.	TYPE 'B' SURVEY MONUMENTS	
			Coordinates	
			N	E
425+00 P.O.T.	0	55-9		
430+00 P.O.T.	0	55-10		
430+00	0			
440+00	0			



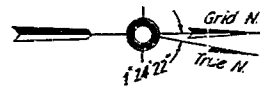
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dryden	2/60	John Smith	7/60	APPROVED	J. E. Dryden	7/60

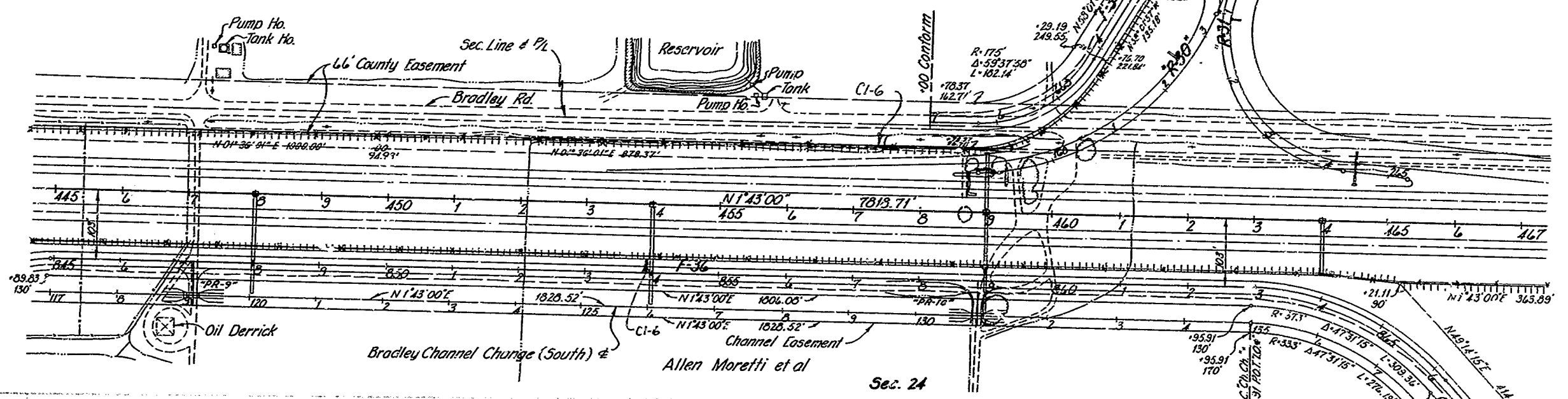
Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.0003435 to obtain ground level distances.

T. 10 N. R. 34 W. S. B. B. & M. Sec. 23



Marion B. Rice et al

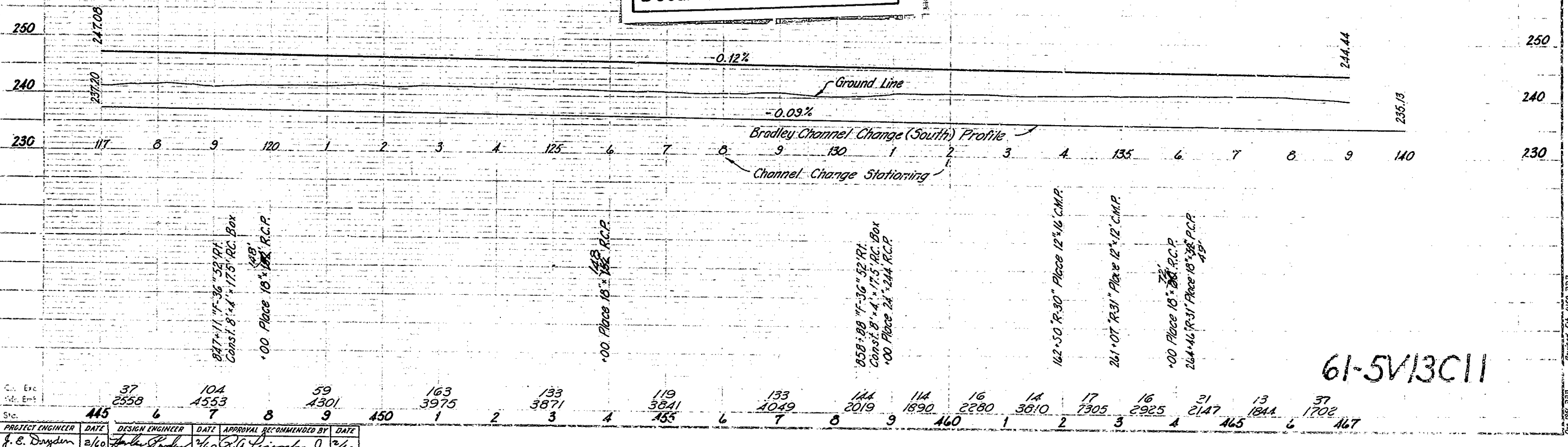
14 204
V 58 2 L 14 137
August 15, 1960
J. Langner



U.S.C. & G.S. Datum

Station	Offset	Ref. No.	Coordinates	
			N	E
453+00 P.O.P.	0	55-11		
450+00 ±	0			
60+00 ±	0			

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

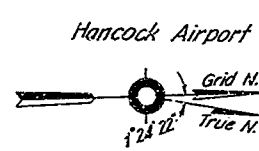


Sta.	445	450	455	460	465	467
Co. Exc	37	104	59	163	133	119
Est.	2558	4553	4301	3975	3871	3841
Proj. Engr.	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer
Design Engr.	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer
Approval	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer
Recommended By	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer	J. B. Dwyer
Date	2/60	2/60	2/60	2/60	2/60	2/60

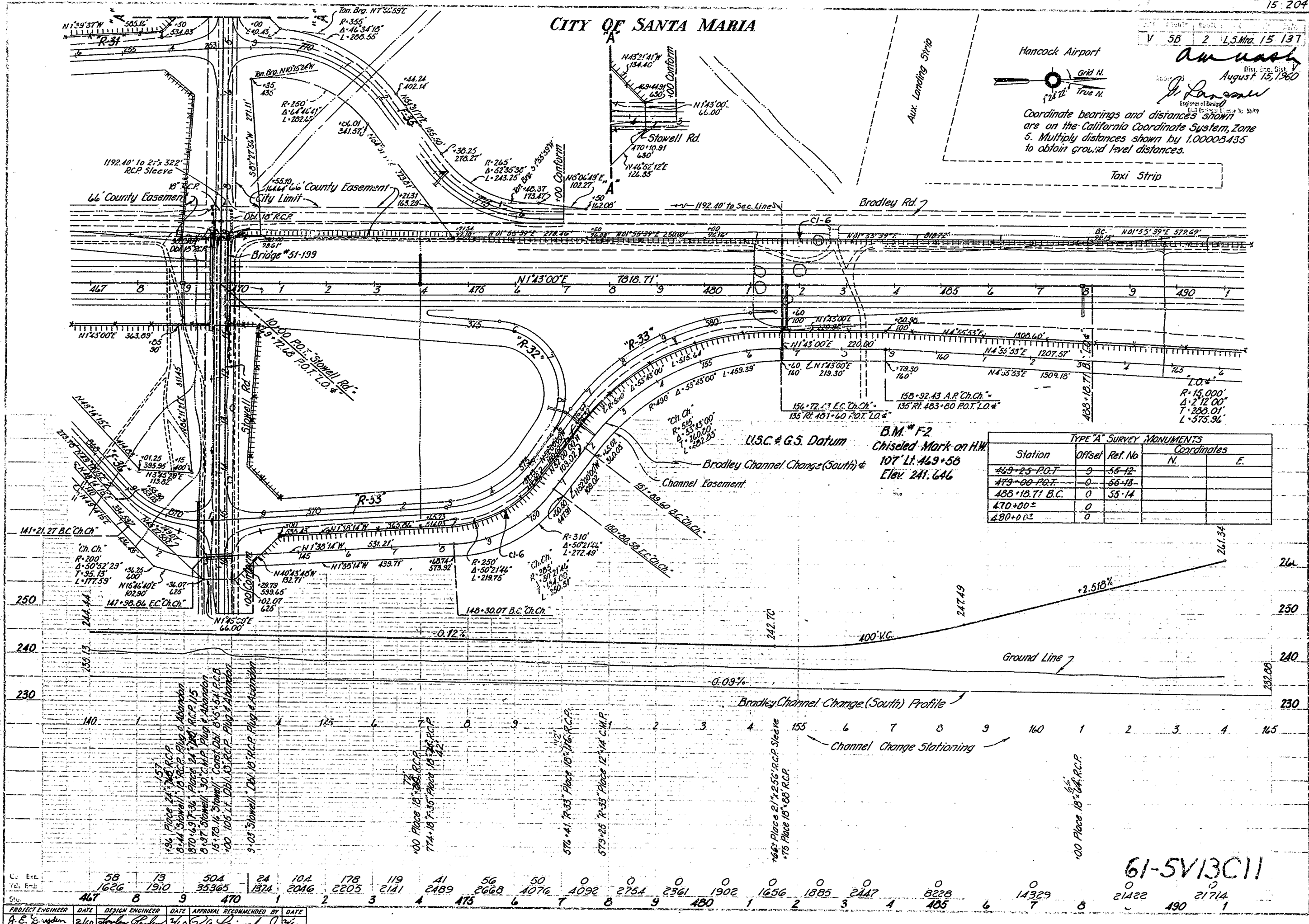
61-5V13C11

14

CITY OF SANTA MARIA



V 58 2 L.S. Mts. 15 137
August 15 1950
J. L. ...
Surveyor



TYPE 'A' SURVEY MONUMENTS			
Station	Offset	Ref. No.	Coordinates
			N. E.
465+25 P.O.T.	9	55-12	
479+00 P.O.T.	0	55-13	
485+18.71 B.C.	0	55-14	
470+00±	0		
480+00±	0		

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

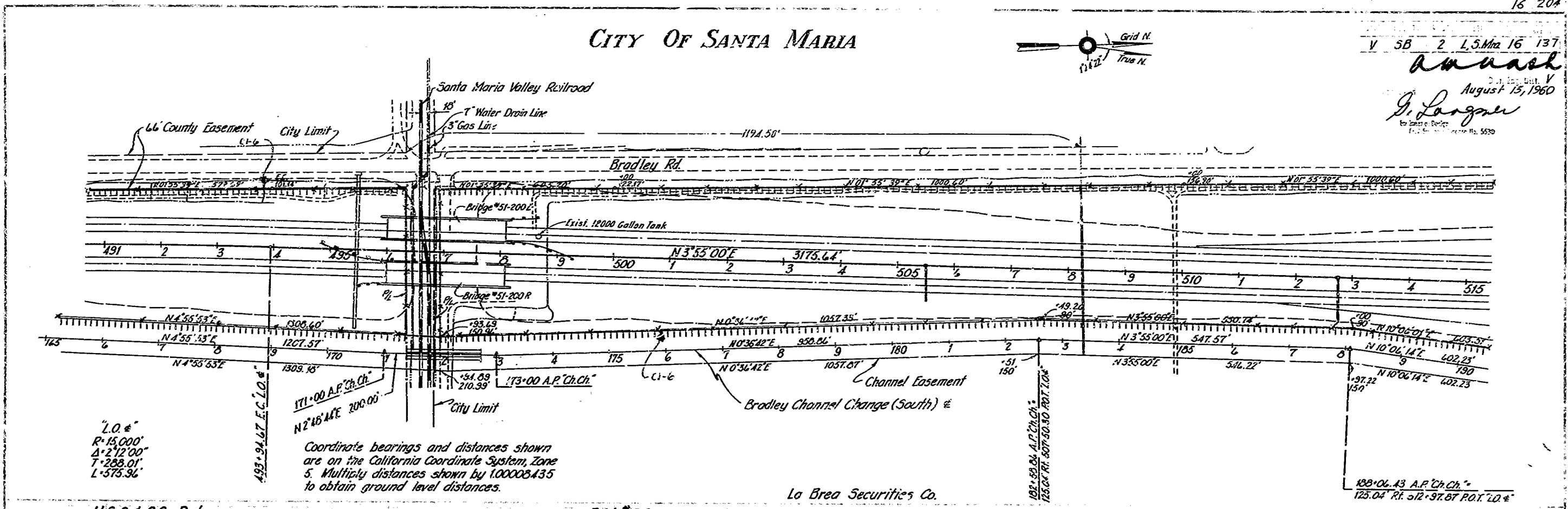
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. ...	2/60	...	7/60	...	7/60

61-5V13C11

CITY OF SANTA MARIA

V 58 2 L.S. Ma 16 137

Amash
August 15, 1960
J. Long
Professional Engineer No. 5639



L.O. =
R = 15,000'
A = 212° 00'
T = 288.01'
L = 575.36'

Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 100005435 to obtain ground level distances.

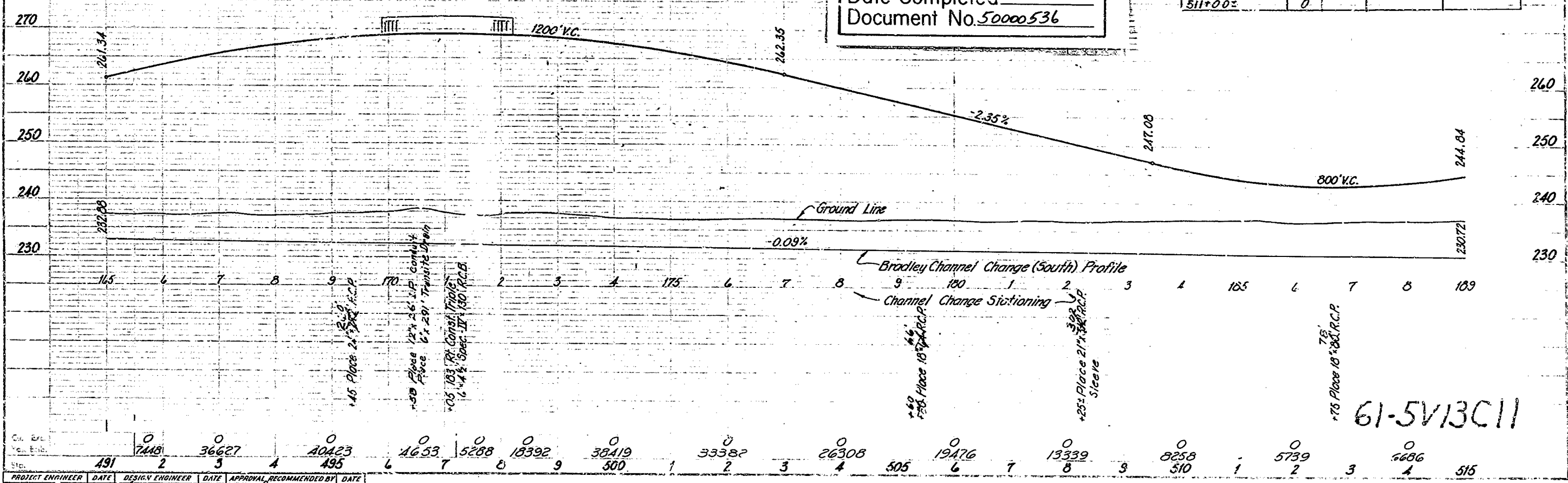
U.S.C. & G.S. Datum

B.M. *G-2
Nail in S. End of H.W.
153' Lt. 436' +65
Elev. 241.673

La Brea Securities Co.

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

Station	Offset	Ref. No.	Coordinates	
			N	E
493+94.67 E.C.	0	53-15		
503+00 P.O.P.	0	55-16		
502+00	0			
511+00	0			

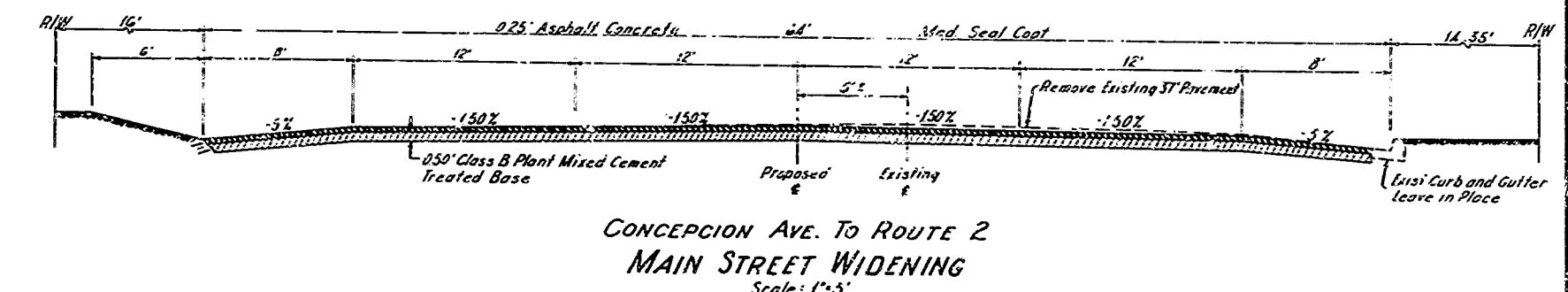
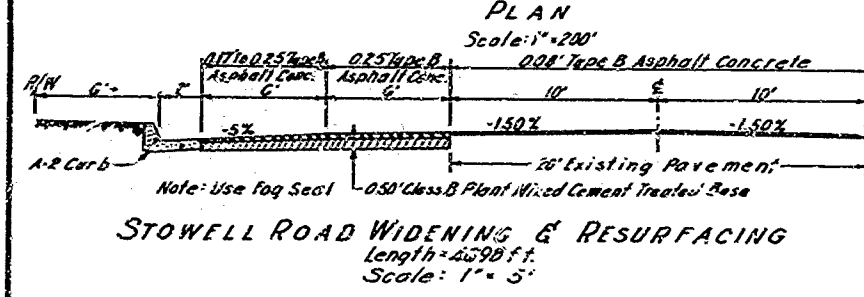
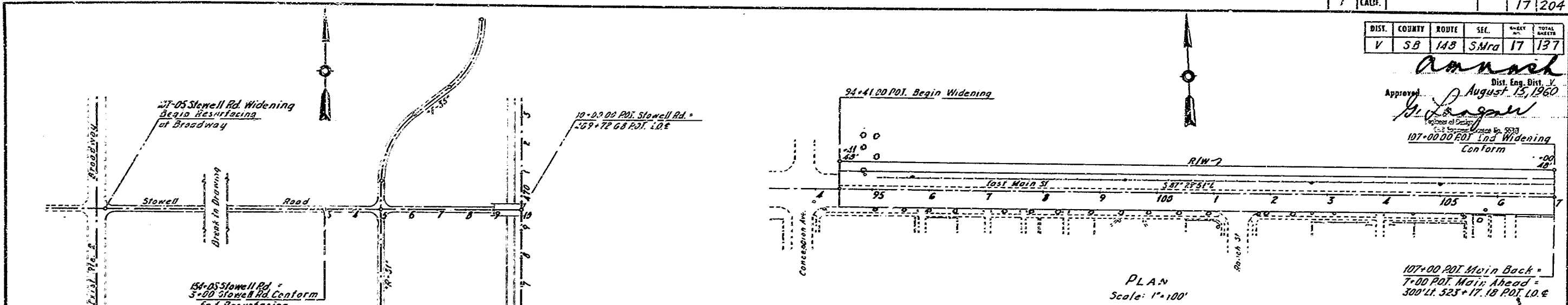


61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Long	2/10	J. E. Long	2/10		J. E. Long	2/10

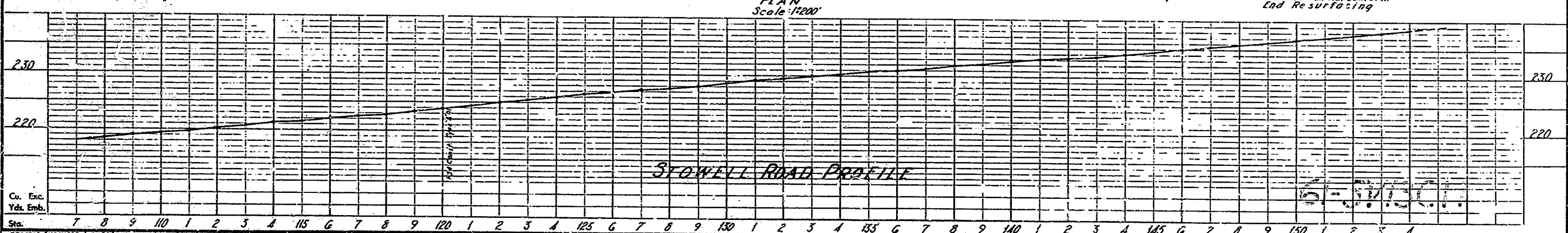
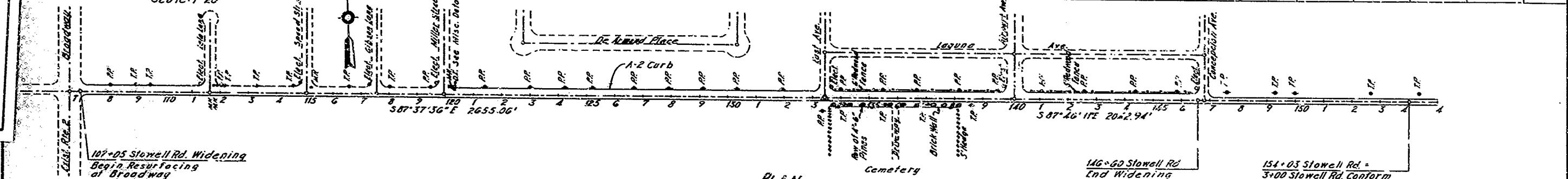
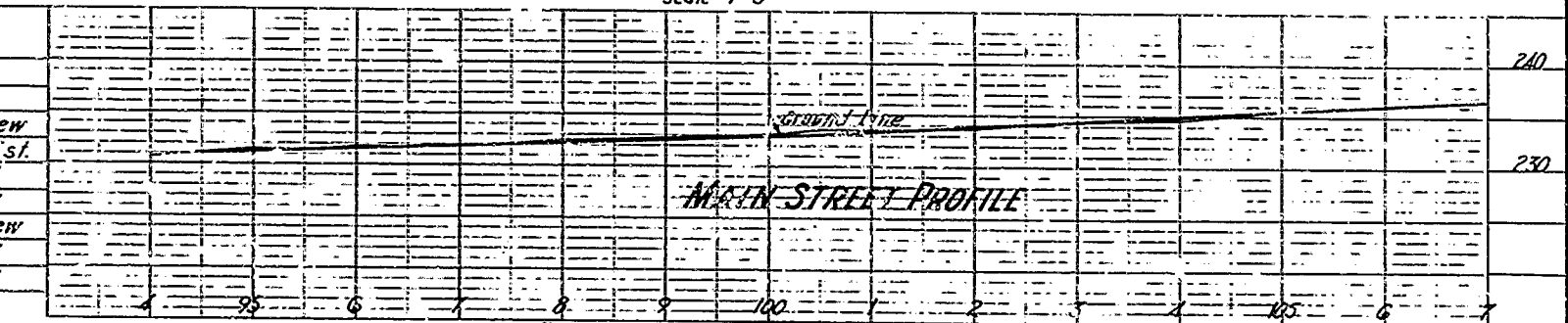
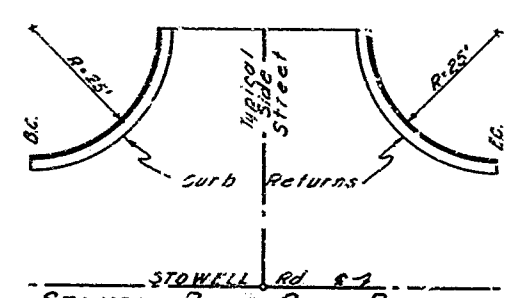
DIST.	COUNTY	ROUTE	SEC.	POST MILE	TOTAL MILE
V	S.B.	148	S.Mra	17	137

Approved: *Amos*
 Dist. Eng. Dist. V.
 August 15, 1960
J. Logan
 107+00.00 P.O.T. 1st Widening Conform



LOCATIONS OF CURB NORTH SIDE OF STOWELL ROAD

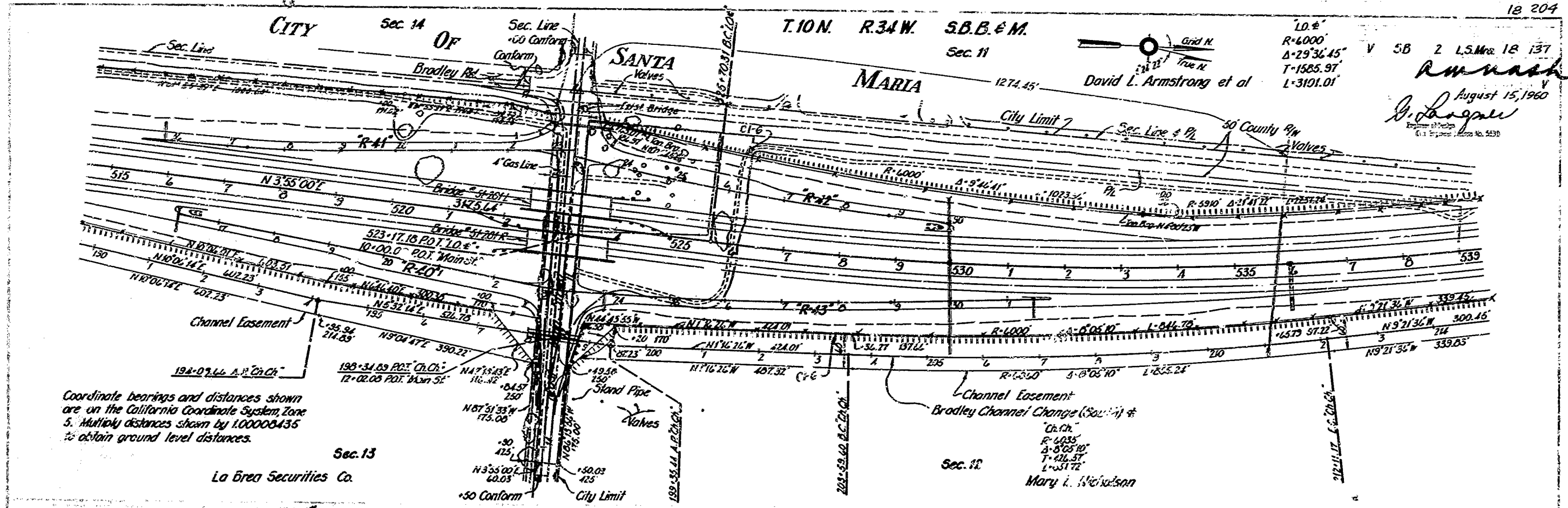
Location	E.C.	B.C.	Length Inc.	Curb Return
107 + 30	111 + 18	465.6	New	
112 + 08	114 + 66	leave in place	Exst.	
115 + 52	117 + 17			
117 + 98	119 + 47			
120 + 38	135 + 01	1341.6	New	
133 + 67	139 + 57	668.6		
140 + 67	146 + 35	646.6		



AS BUILT PLANS
 Contract No. 6L-5113C-11
 Date Completed
 Document No. 50000536

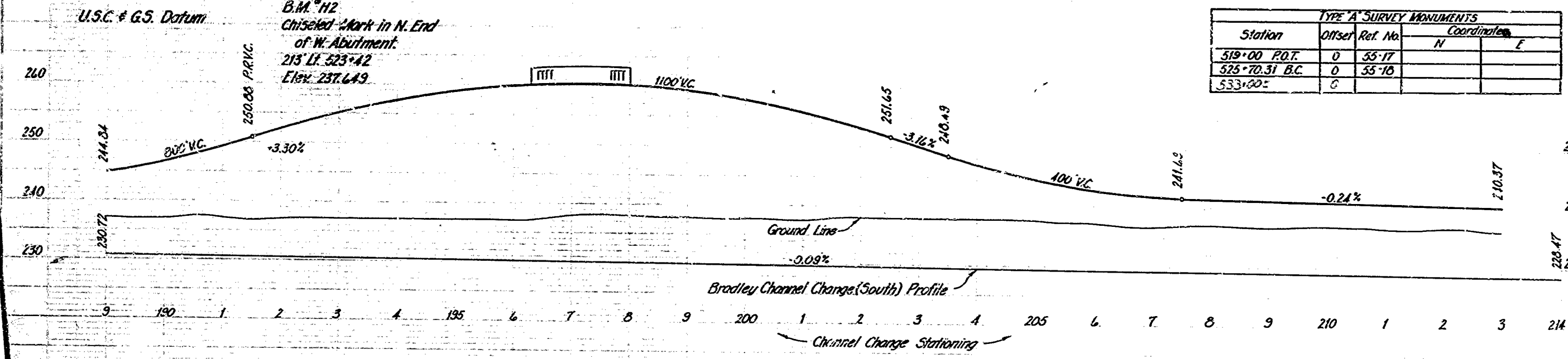
11

DATE	BY	REVISION
2/60	J.C. Dwyer	1



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.

TYPE 'A' SURVEY MONUMENTS				
Station	Offset	Ref. No.	Coordinates	
			N	E
519+00 P.O.T.	0	55-17		
525+70.31 B.C.	0	55-10		
533+00	0			



AS BUILT PLANS
 Contract No. 67-5V13C/1
 Date Completed
 Document No. 50000536

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

Station	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539
0	11600	13440	15280	17120	18960	20800	22640	24480	26320	28160	30000	31840	33680	35520	37360	39200	41040	42880	44720	46560	48400	50240	52080	53920	55760

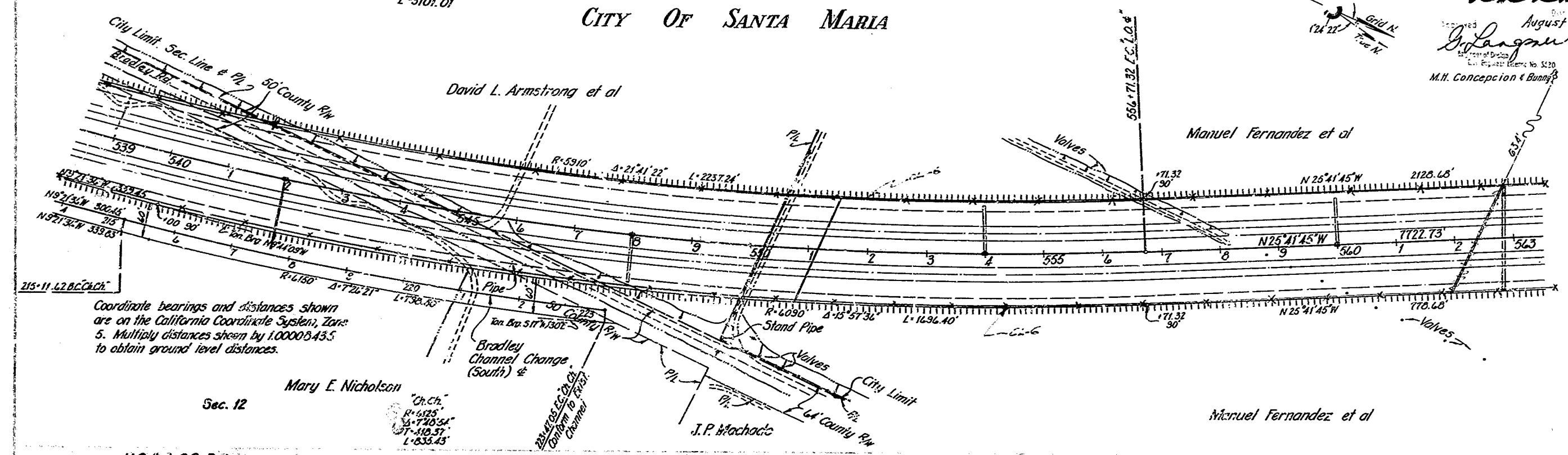
L.O. 4'
R 4000'
Δ 29°36'45"
T 1885.97'
L 3101.01'

7.10N. R.34 W. S.B.B.#M.
Sec. 11

CITY OF SANTA MARIA

V 56 2 1,5 Ma 19 137

August 15, 1960
M.H. Concepcion & Bunniff

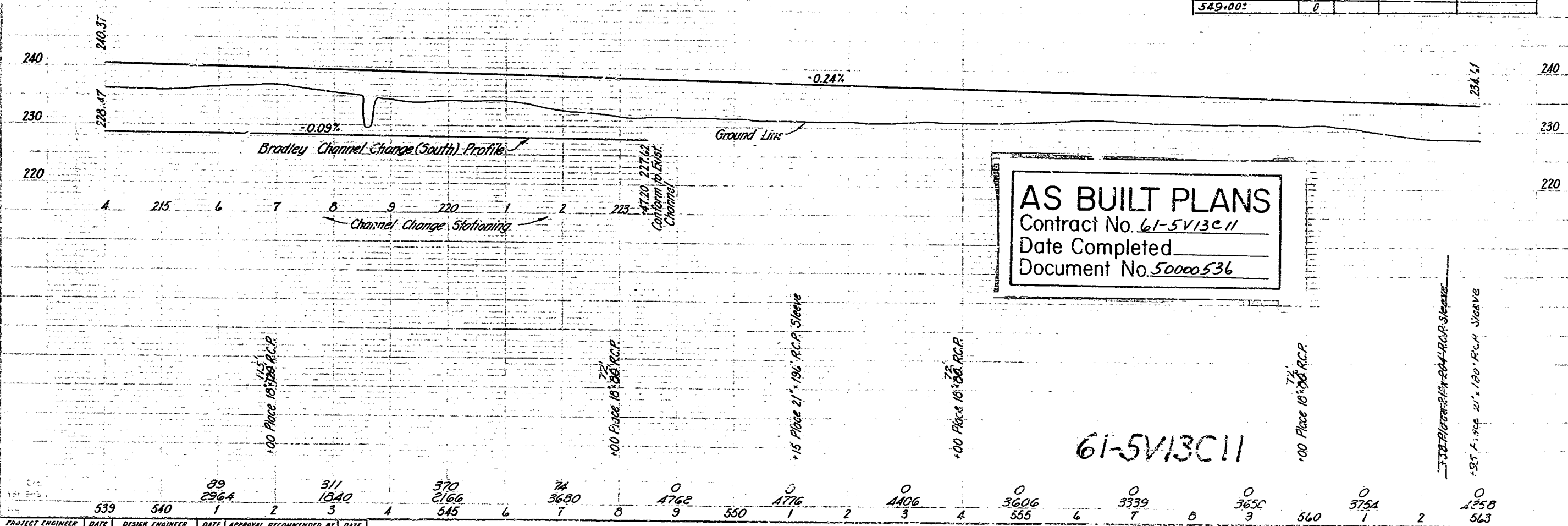


Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00005435 to obtain ground level distances.

Sec. 12
Mary E. Nicholson
U.S.C. & G.S. Datum

B.M. #J2
Mon. L.S. 2293 - C.H.C. 9
166' R.I. 549.21
Elev. 234.338

Station	TYPE 'A' SURVEY MONUMENTS		Coordinates	
	Dist	Ref. No.	N	E
556+71.32 E.C.	0	55-19		
541+00±	0			
549+00±	0			



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

61-5V13C11

539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

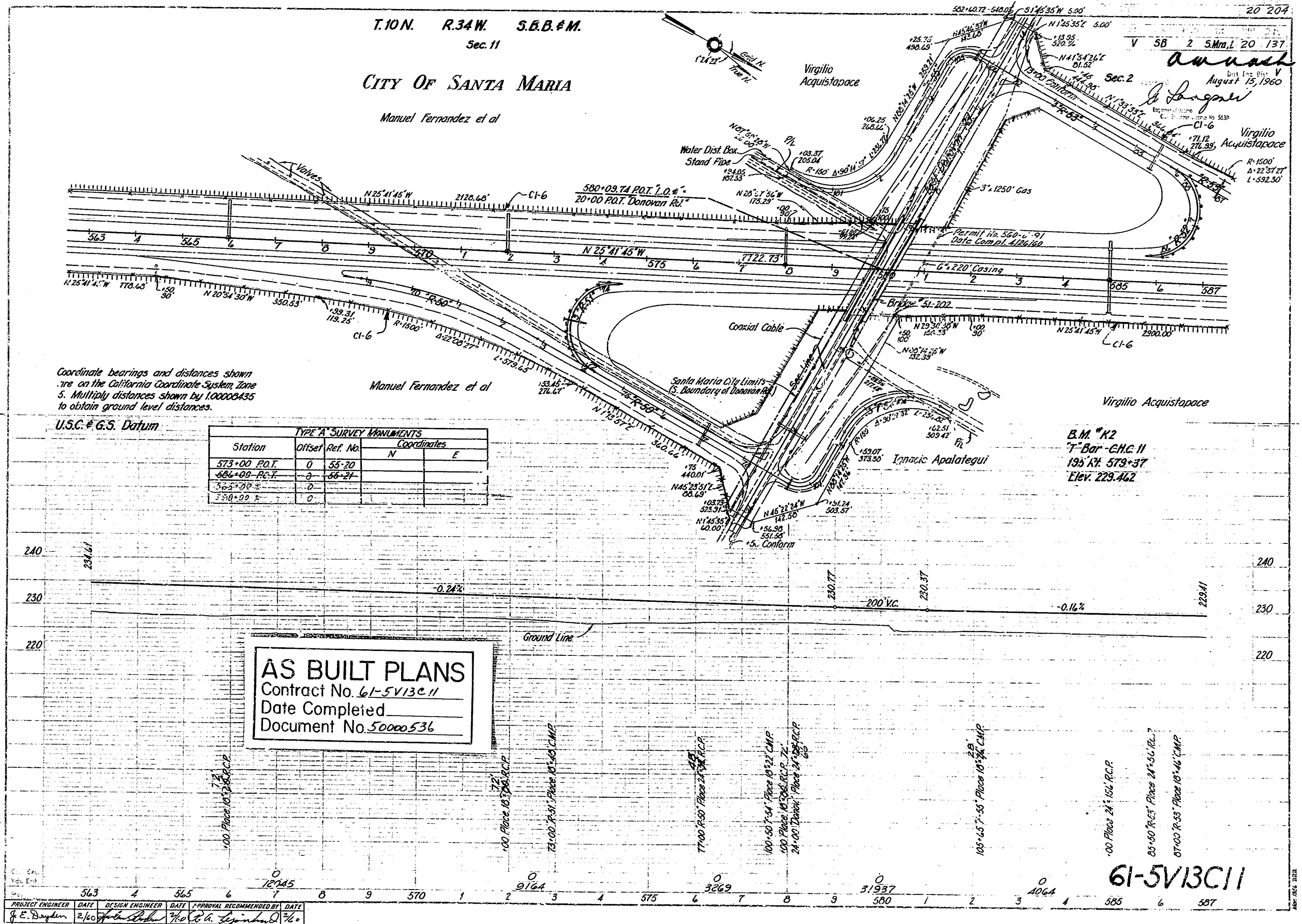
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

19

T.10N. R.34W. S.B.B.#M.
Sec. 11

CITY OF SANTA MARIA

Manuel Fernandez et al



Coordinate bearings and distances shown are on the California Coordinate System Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.

U.S.C. & G.S. Datum

Station	Offset	Ref. No.	Coordinates	
			N	E
573+00 P.O.T.	0	55-20		
584+00 P.C.P.	0	56-21		
585+00 P.S.	0			
586+00 P.T.	0			

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

B.M. #K2
T-Bar - C.H.C. 11
195 KX 579+37
Elev. 229.462

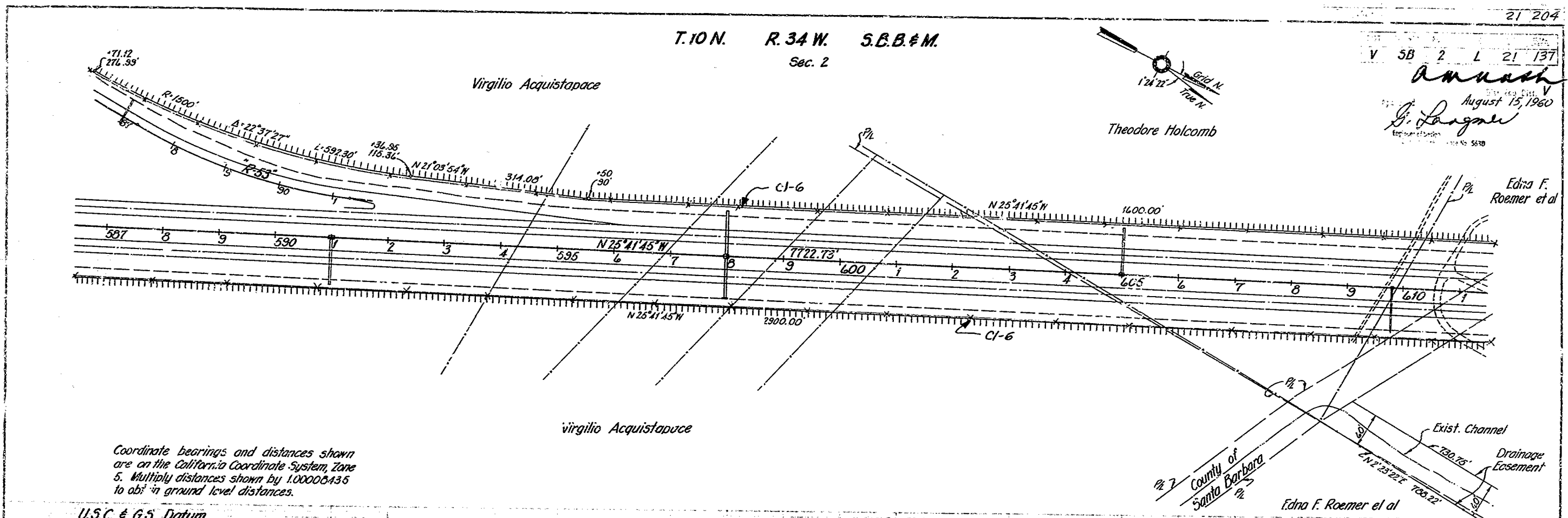
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	8/60

20

61-5V13C11

T.10N. R.34W. S.E.B&M.
Sec. 2

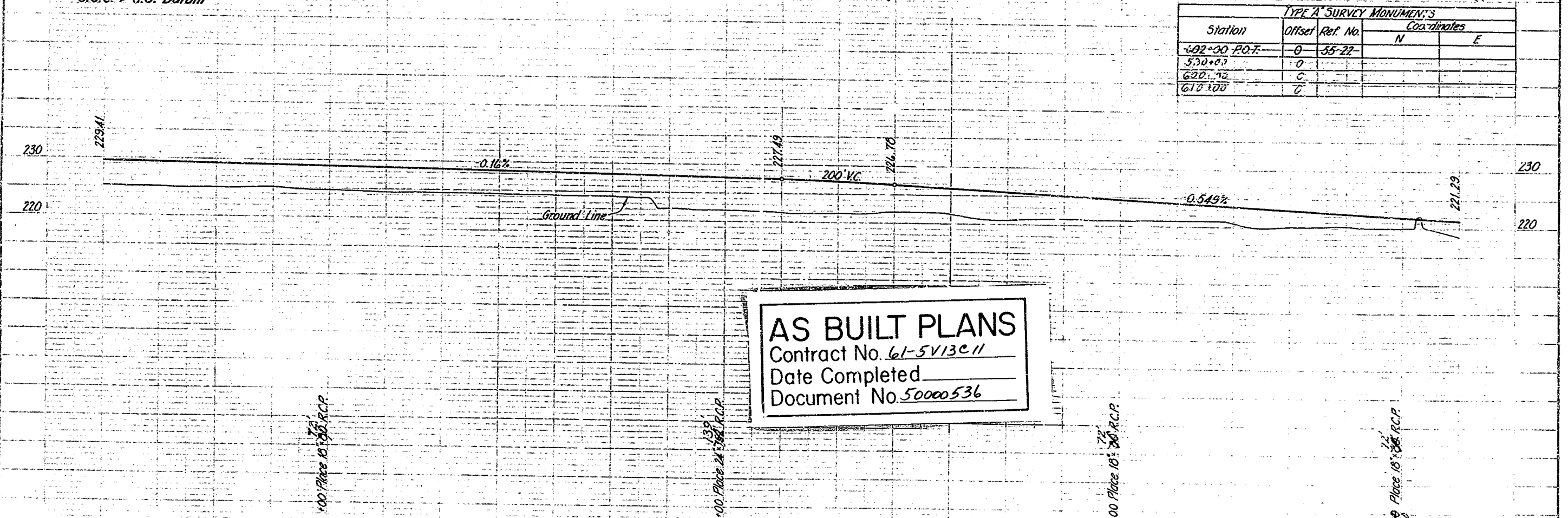
V. 5B 2 L 21 137



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00005435 to obtain ground level distances.

U.S.C. & G.S. Datum

Station	Offset	Ref. No.	Coordinates	
			N	E
592+00 P.O.F.	0	55-22		
530+00	0			
620+00	0			
610+00	0			

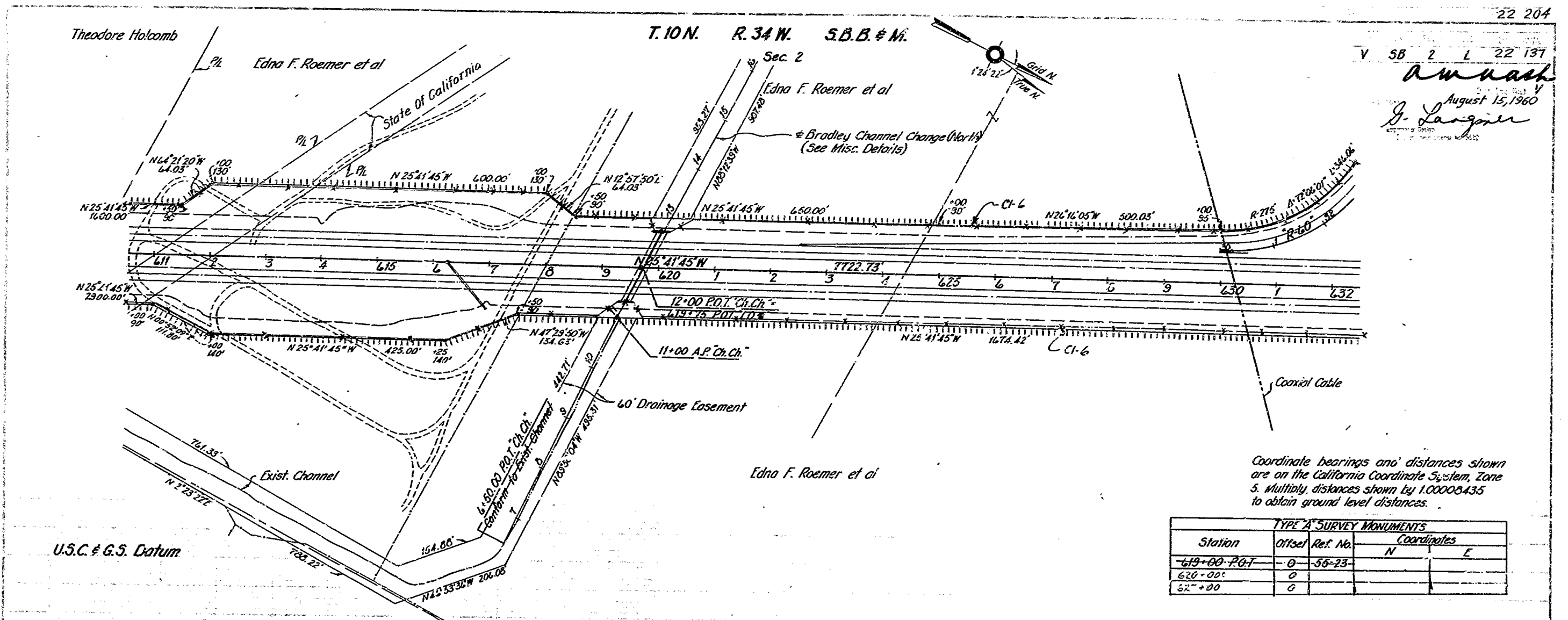


AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

61-5V13C11

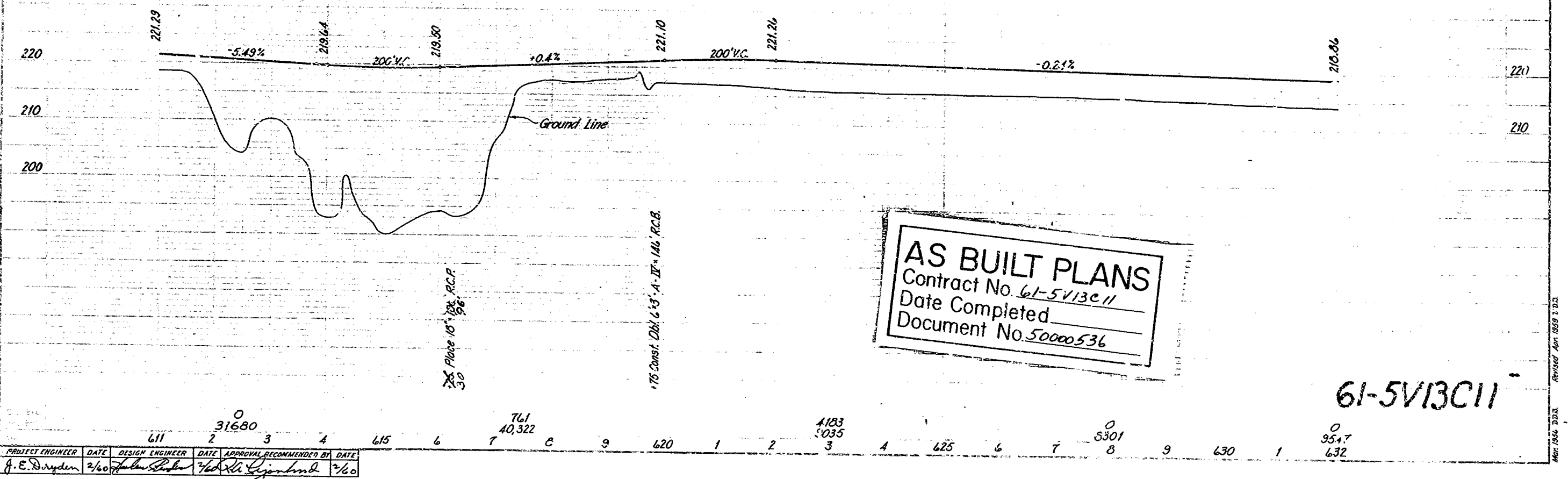
21



V SB 2 L 22 137
Amnash
 August 15, 1960
J. Langner

Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.

Station	TYPE 'A' SURVEY MONUMENTS			
	Offset	Ref. No.	Coordinates	
			N	E
619+00 P.O.I.	0	55-23		
620+00	0			
622+00	0			



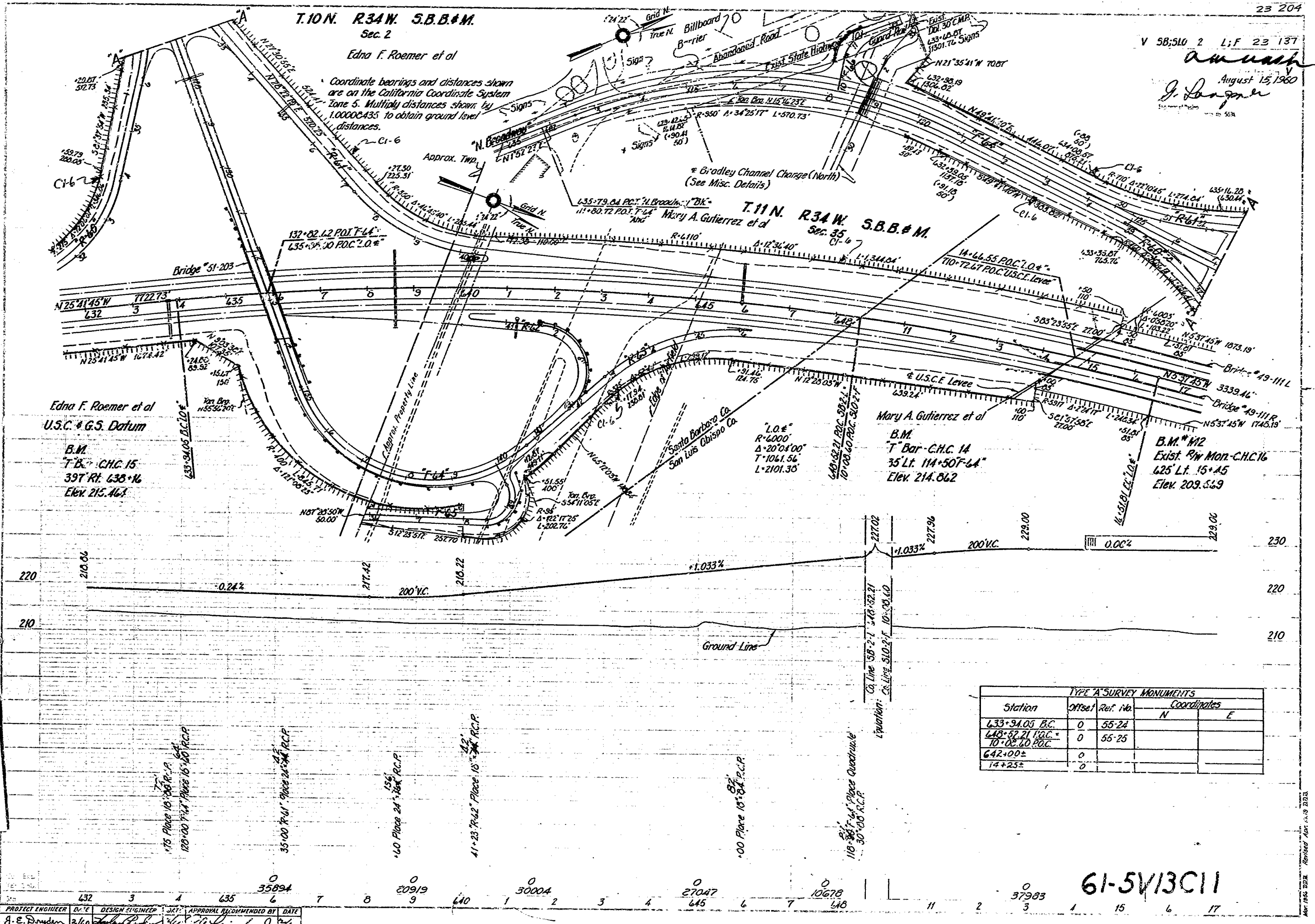
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. D. Ryden	7/60	[Signature]	7/60	[Signature]	[Signature]	7/60

22

V 58;S10 2 L;F 23 137
August 15, 1960
J. Dwyer



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

Station	Offset	Ref. No.	Coordinates	
			N	E
L33+94.05 B.C.	0	55-24		
L48+87.21 P.C.C.	0	55-25		
642+00±	0			
14+25±	0			

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

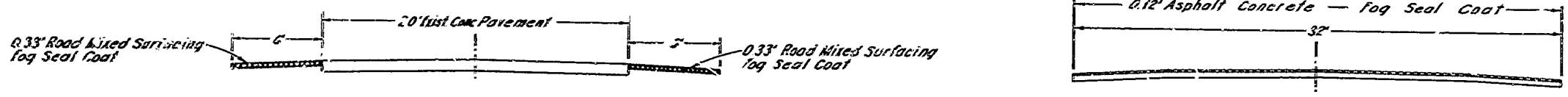
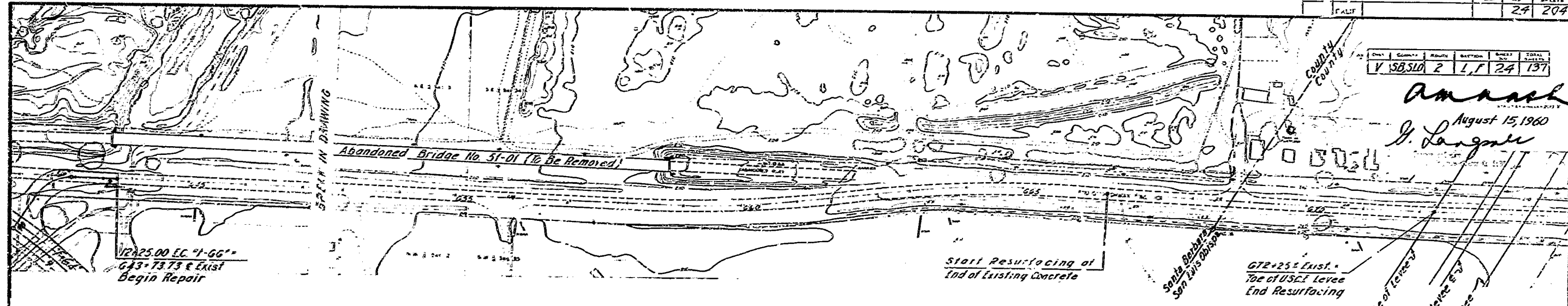
61-5V13C11

23

APP.	STATE	FEDERAL PROJECT NO.	FEED	SHEET	TOTAL SHEETS
FALTY			24	24	204

Sheet	Scale	Area	Notes	Sheet	Total
V 158,510	2	1, 1	24	137	

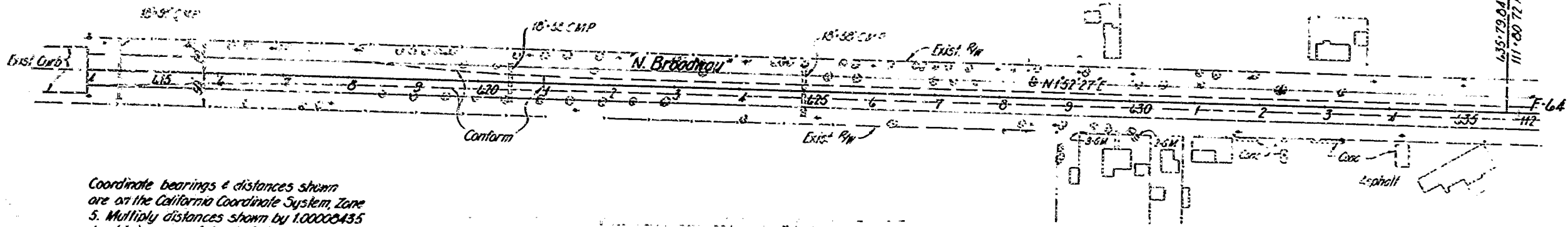
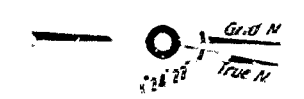
Amara
August 15, 1960
J. Longmire



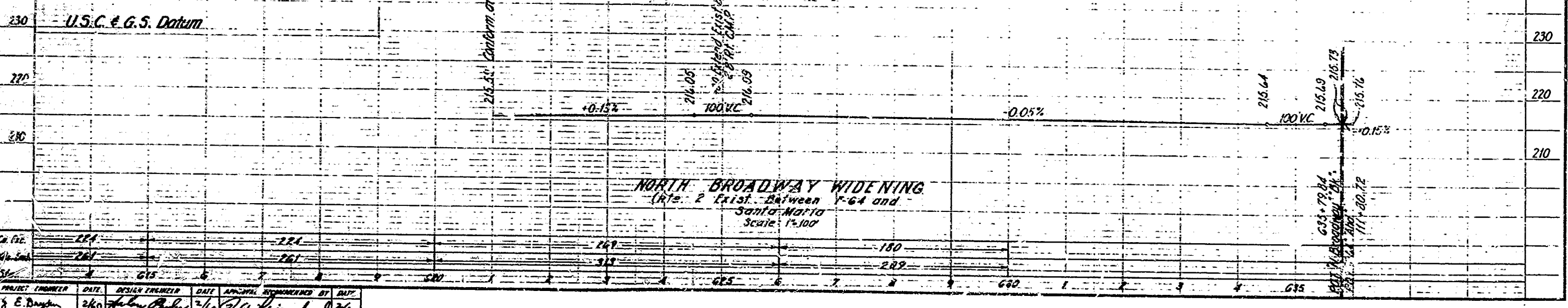
Sta. 643+73.2 To Sta. 666+50.0 Exist.
(To End Of Existing Concrete)
Scale: 1" = 5'

Sta. 666+50.0 To Sta. 672+25.0 Exist.
Scale: 1" = 5'

NORTH BROADWAY REPAIR
F-66 To U.S.C. & G.S. Levee
Scale: 1" = 100'



Coordinate bearings & distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000435 to obtain ground level distances.



PROJECT NUMBER	DATE	DESIGN ENGINEER	DATE	APPROVAL ENGINEER BY	DATE
8 E. Bay	2/60	<i>[Signature]</i>	2/60	<i>[Signature]</i>	2/60

AS BUILT PLANS
Contract No. 61-5V(2)E11
Date Completed
Document No. 50000536

T. 11 N. R. 34 W. S.B.B. & M.
Sec. 35

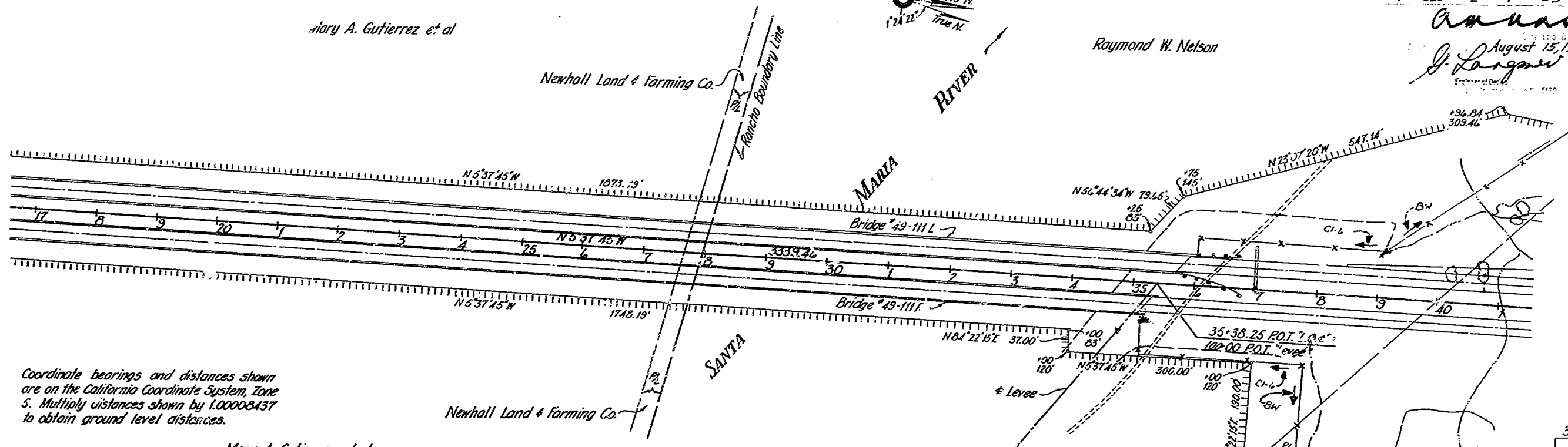
Mary A. Gutierrez et al

RANCHO NIPOMO

Raymond W. Nelson

V 51.0 2 F 25 137

Amnash
August 15, 1960
J. Longue

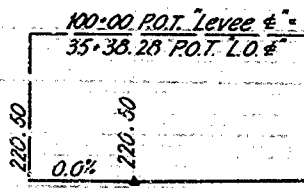


Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00000437 to obtain ground level distances.

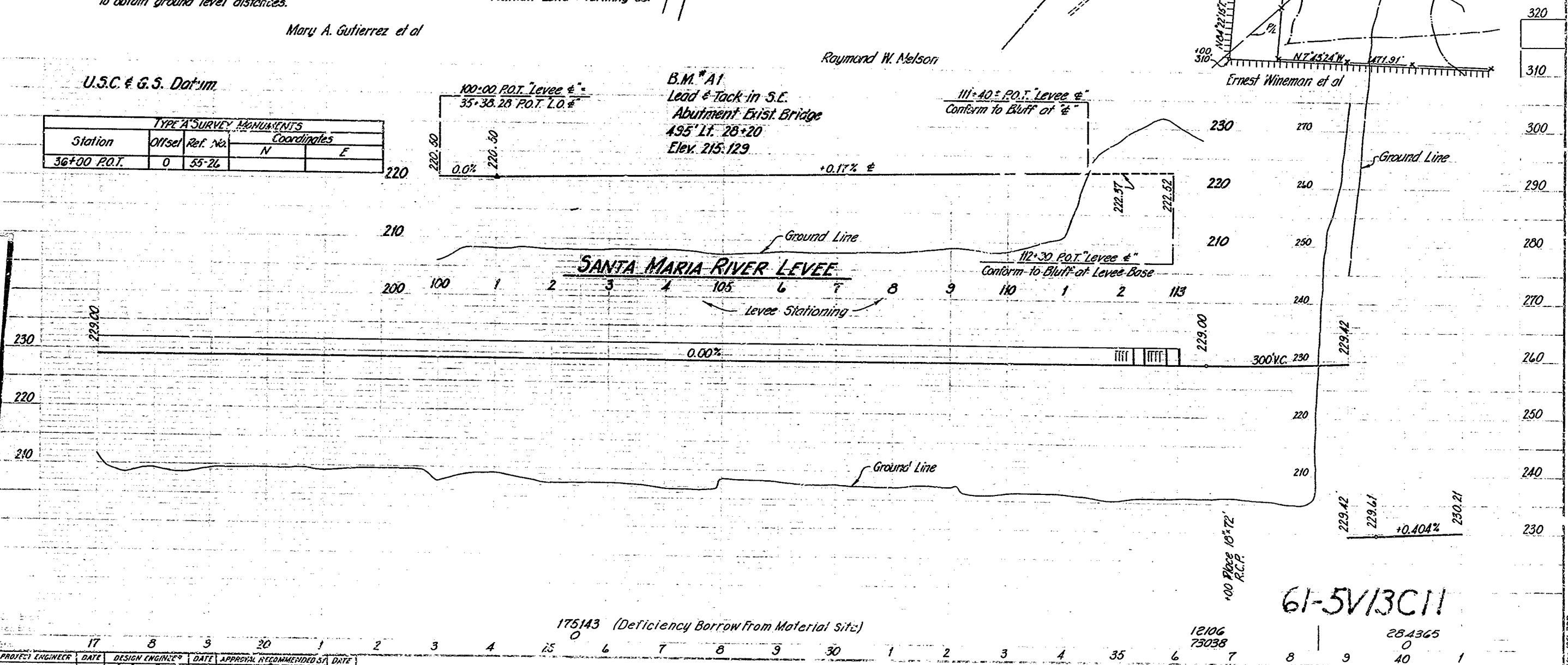
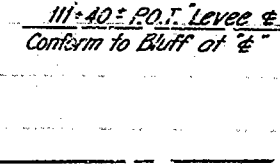
Mary A. Gutierrez et al

U.S.C. & G.S. Datum

Station	TYPE 'A' SURVEY MONUMENTS			Coordinates	
	Offset	Ref. No.		N	E
36+00 P.O.T.	0	35-26			



B.M. #A1
Lead & Tack in S.E.
Abutment Exist. Bridge
495' L.F. 28+20
Elev. 215.129



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

25

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Longue	2/10/60	[Signature]	2/10/60	[Signature]	2/10/60

61-5V13C11

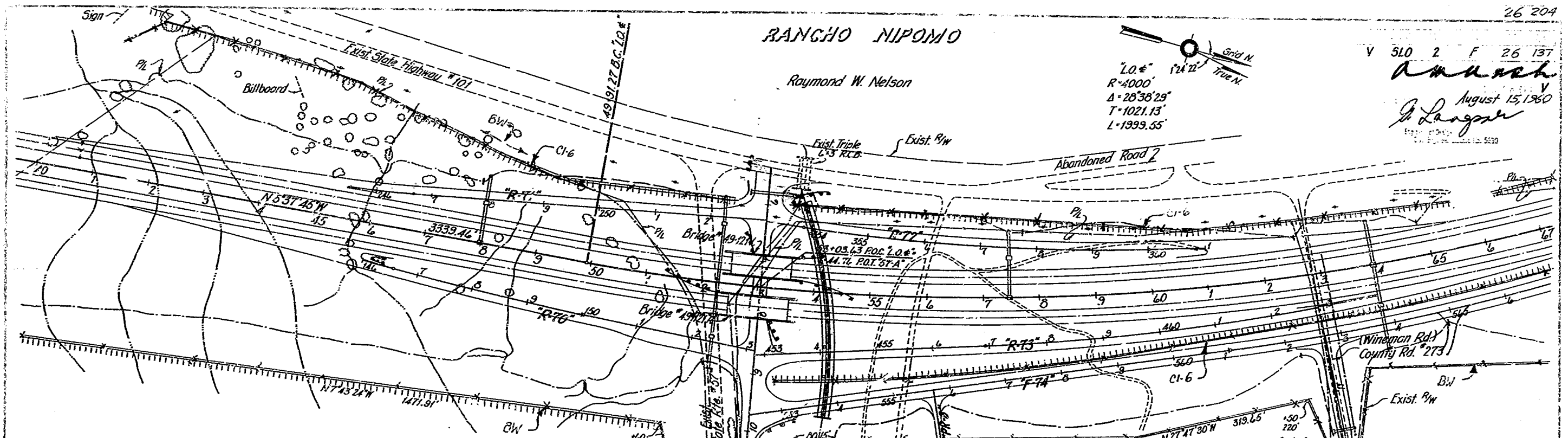
10/1/60

RANCHO NIPOMO

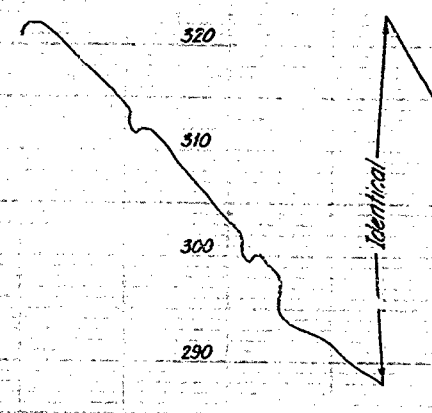
Raymond W. Nelson

7.0°
 R=4000'
 Δ=28°38'29"
 T=1021.13'
 L=1999.55'

V 510 2 F 26 137
Amuch
 August 15, 1980
J. Langan



Coordinate bearings and distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.0000435 to obtain ground level distances. Ernest Wineman et al



B.M. B1
 Chisled-Mark in N.E. abutment Exist. Bridge
 325' Lt. 41+80
 Elev. 217.240

B.M.
 T-Bar - C.H.C. 18
 145' Lt. 52+87
 Elev. 211.349

Station	TYPE 'A' SURVEY MONUMENTS	
	Offset	Ref. No.
49+31.27 B.C.	0	55-27

U.S.C. # 6.3. Datum		
43+00 ±	0	270
56+00 ±	0	
62+00 ±	0	

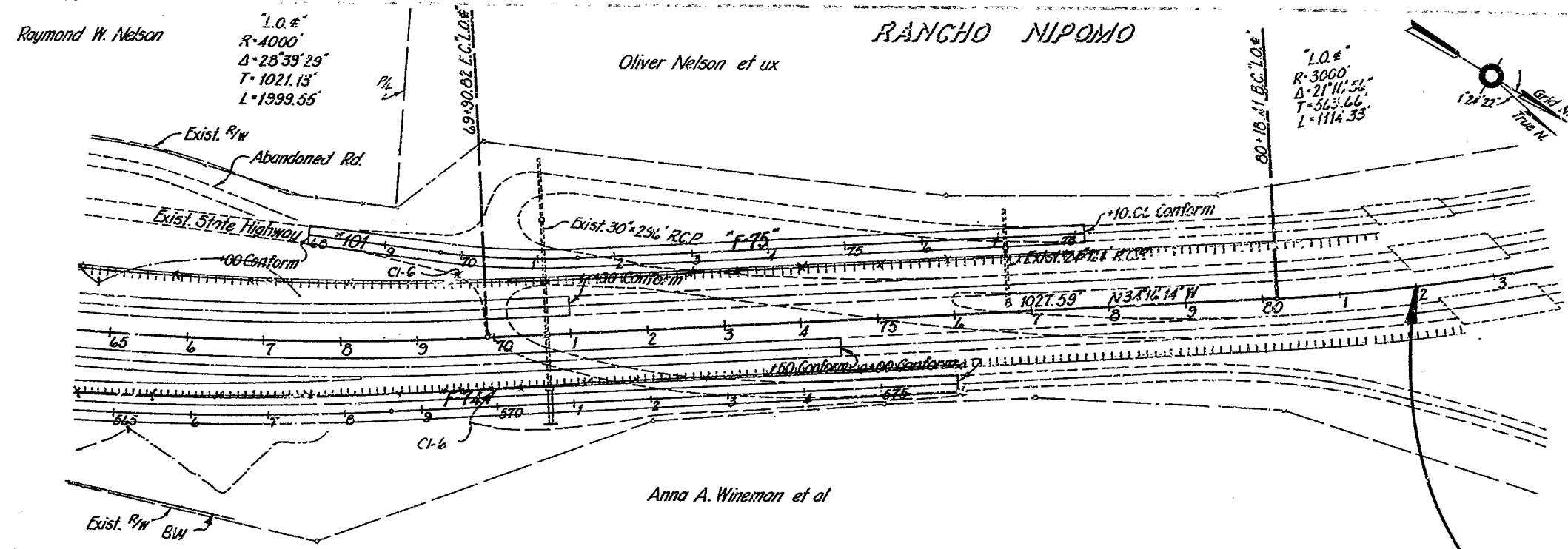
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J.E. Snyder	2/10	<i>[Signature]</i>	2/10	<i>[Signature]</i>	J.E. Snyder	2/10

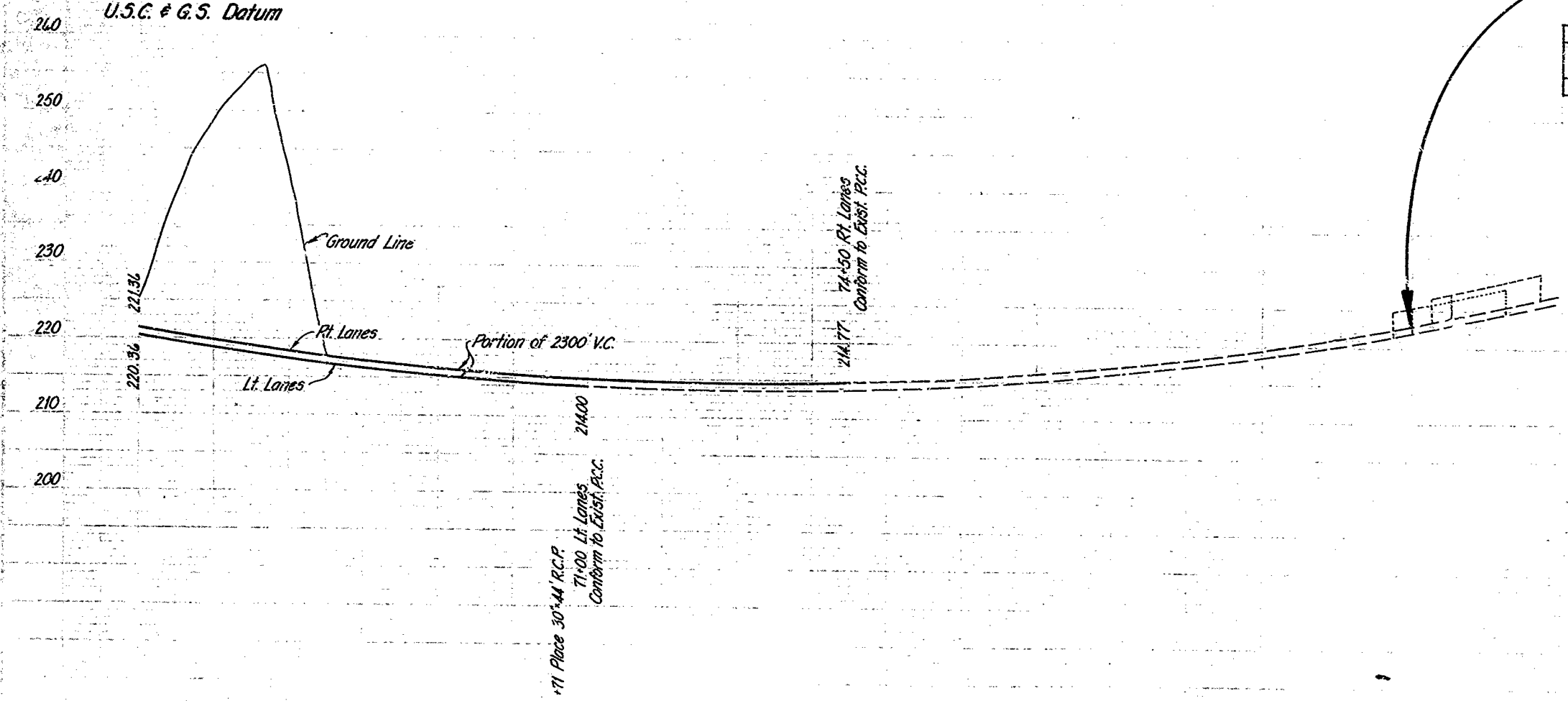
26

21



V SLD 2 F 27 137
Amvash
 August 15, 1960
 J. [Signature]
 Engineer of Survey
 License No. 3628

Coordinate bearings & distances shown are on the California Coordinate System, Zone 5. Multiply distances shown by 1.00003435 to obtain ground level distances.
 U.S.C. & G.S. Datum



End of Construction Station 82+00

TYPE "A" SURVEY MONUMENTS				
STATION	OFFSET	REF. NO.	COORDINATES	
			N	S
69+90.02 EC	?			

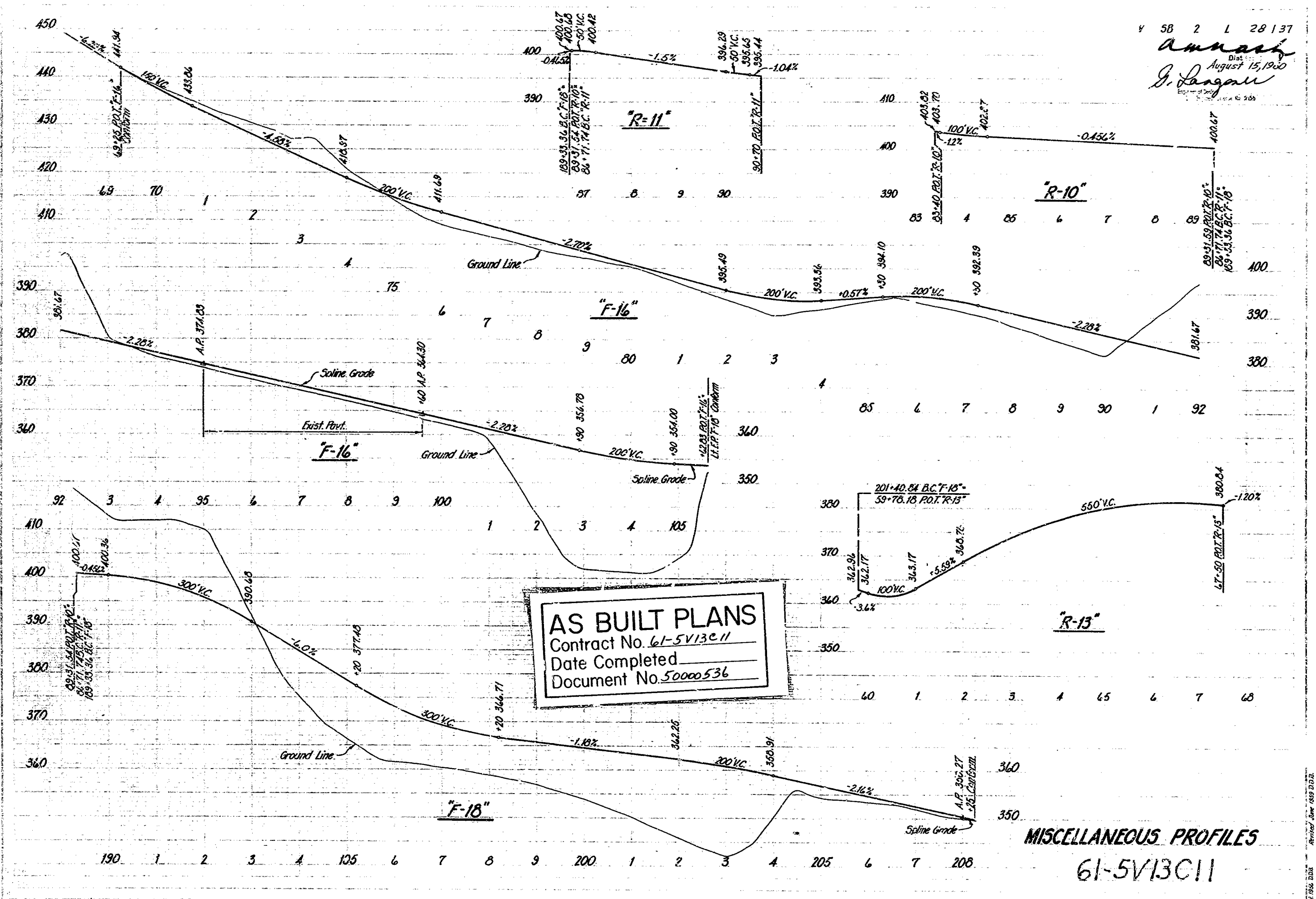
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

27

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. [Signature]	2/60	[Signature]	3/60	[Signature]	9/60

61-5V13C11

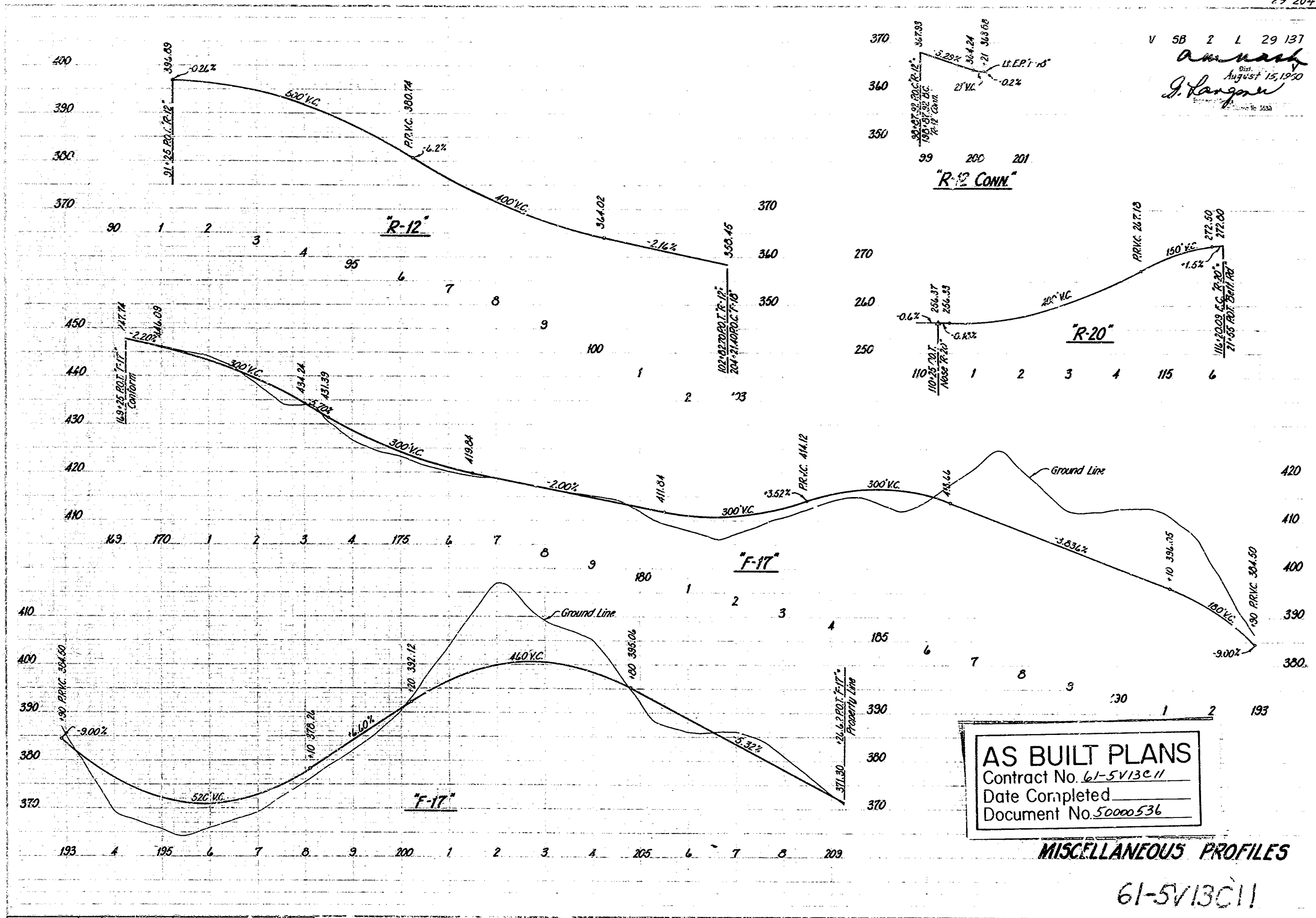
Y 5B 2 L 28 137
Amachi
Dis.
August 15, 1960
J. Langan



PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Douglas	2/10	[Signature]	2/10	J. E. Douglas	2/10

28

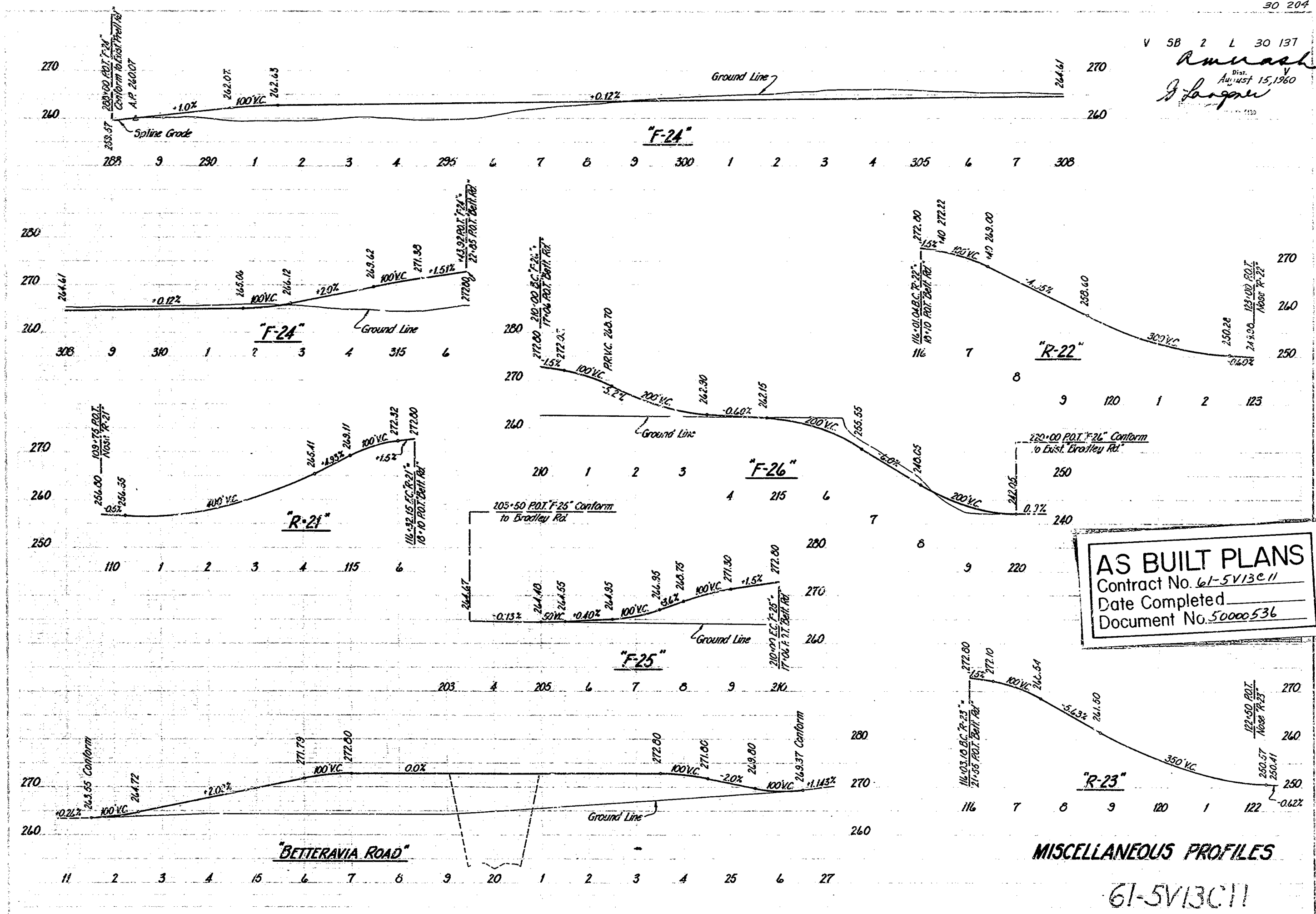
28 204



PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dryden	2/60	[Signature]	[Date]	[Signature]	[Signature]	2/60

29

V 58 2 L 30 137
R. Amash
 Dist. August 15, 1960
J. Longene

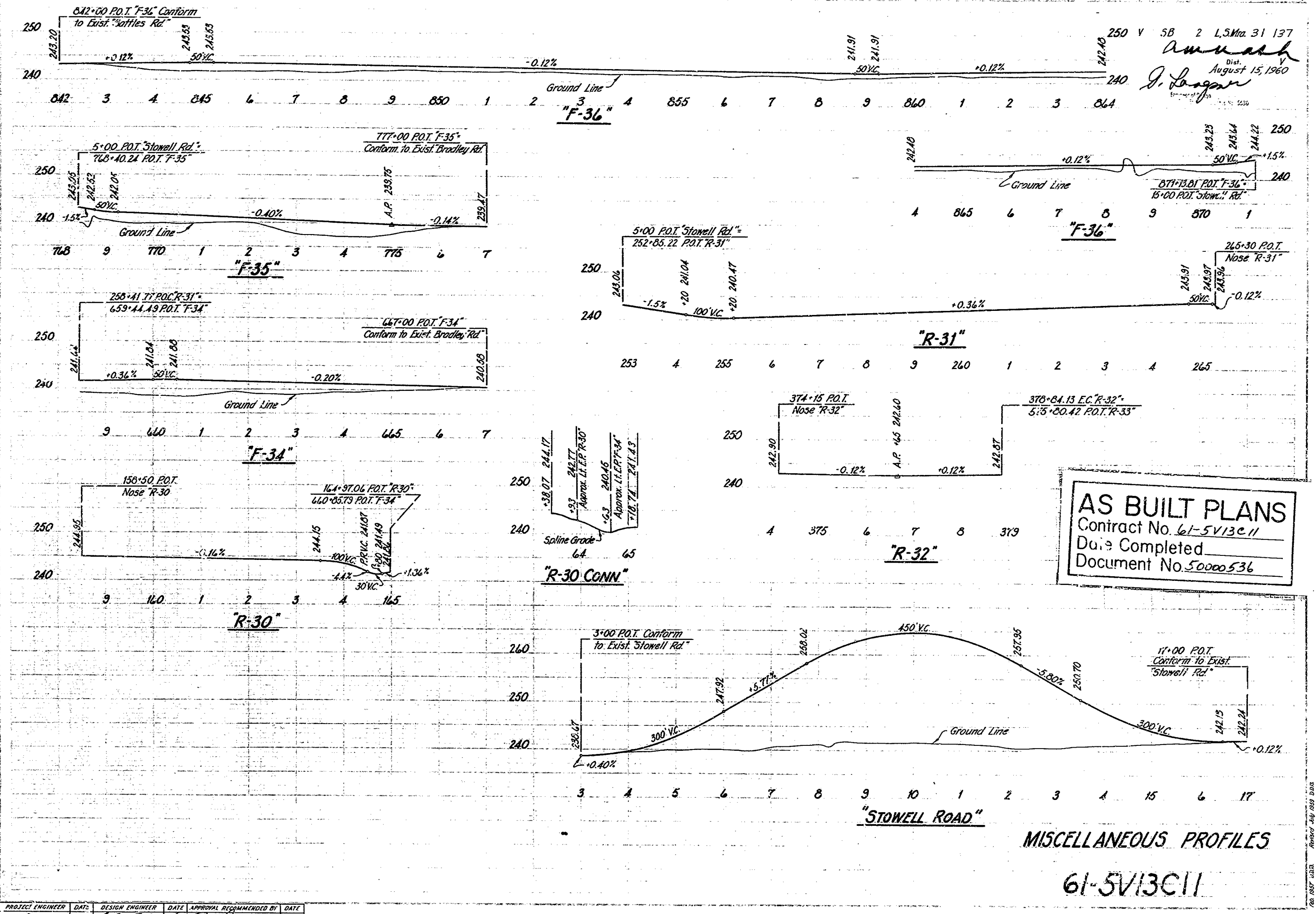


AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dreyfus	2/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	<i>[Signature]</i>	7/60

30



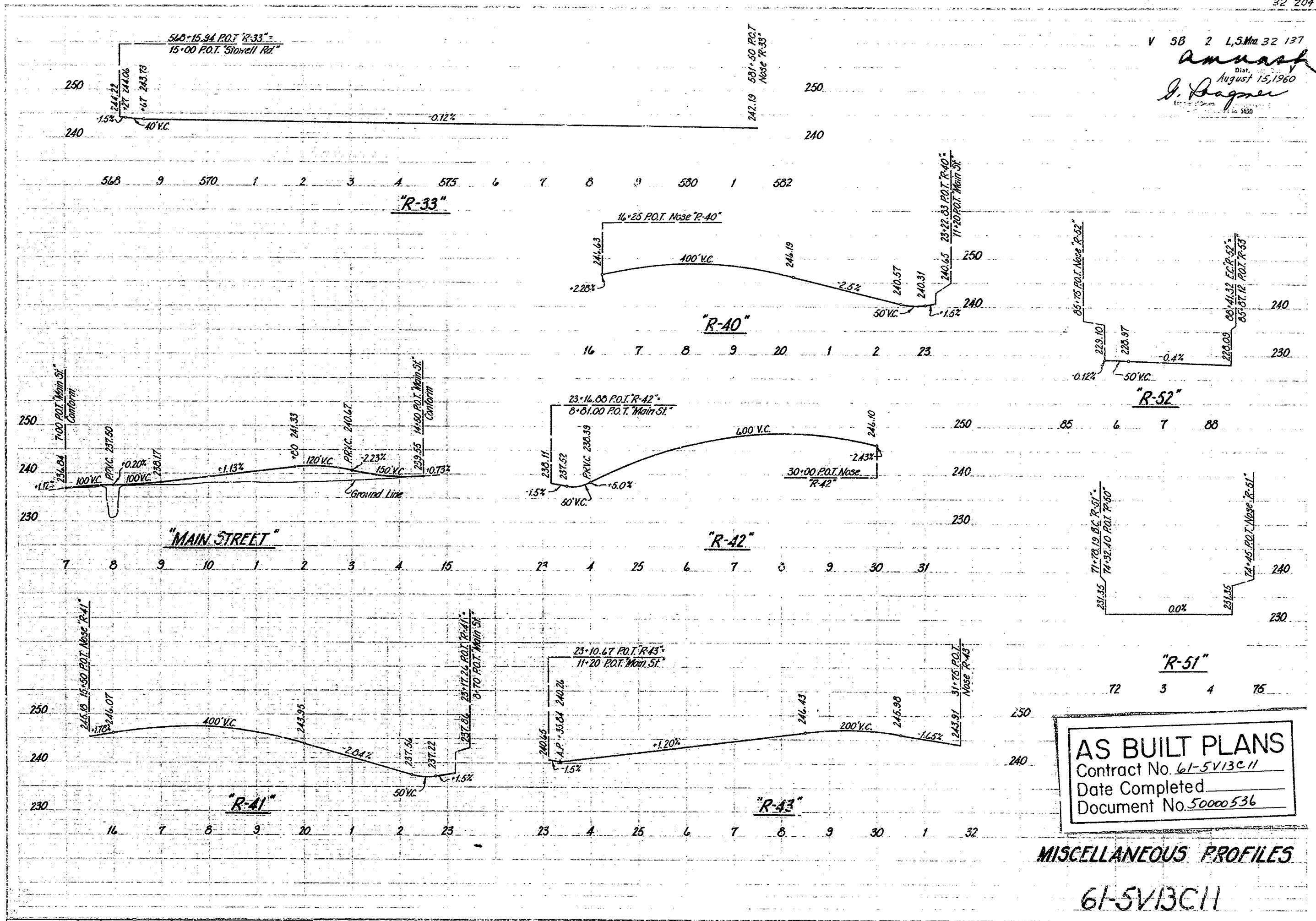


31

MISCELLANEOUS PROFILES

61-5V13C11

V 5B 2 L.S. No. 32 137
Amundson
 August 15, 1960
J. D. Ragner



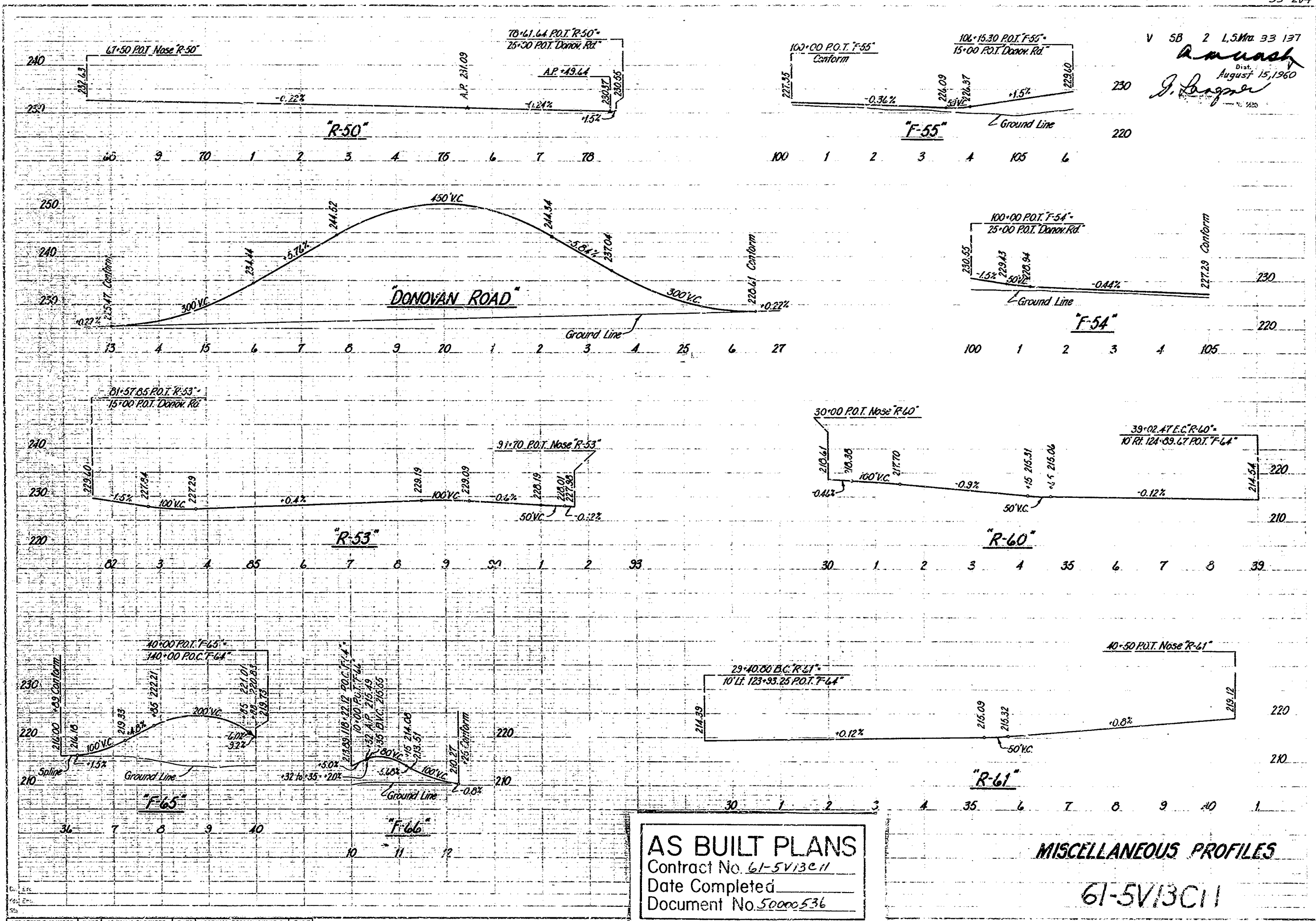
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

MISCELLANEOUS PROFILES

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dugan	7/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	<i>[Signature]</i>	7/60

32



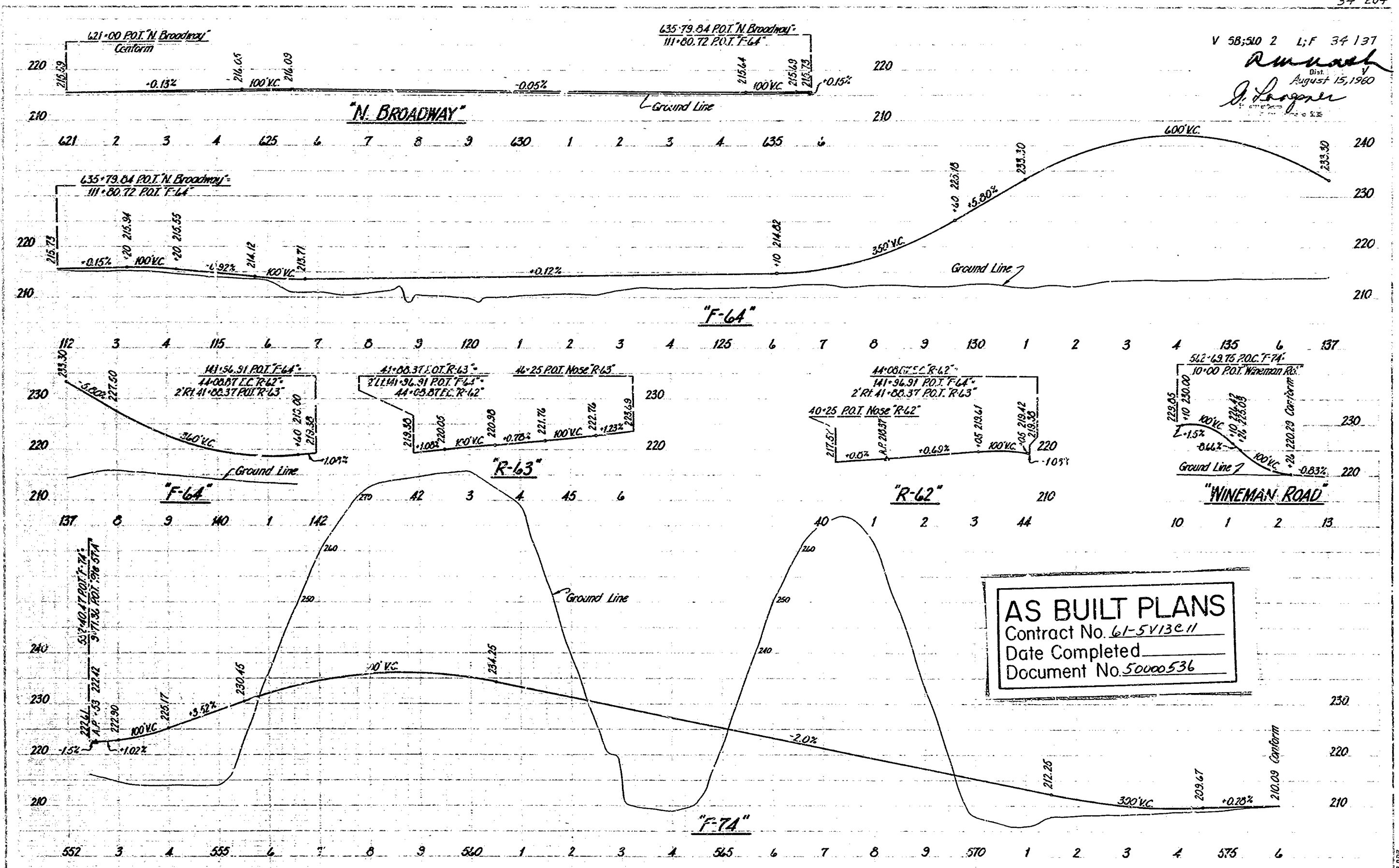
33

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

MISCELLANEOUS PROFILES
 61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	J. Wagner	8/60	✓	J. Wagner	8/60

61-5V13C11
 August 15, 1960



V 58;310 2 L;F 34 137
Amvach
 Dist. August 15, 1960
J. Looper

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

MISCELLANEOUS PROFILES

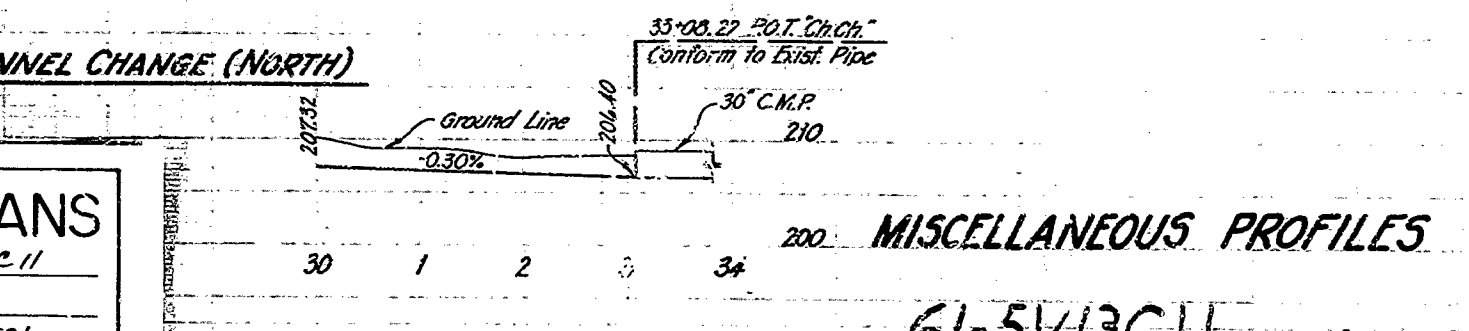
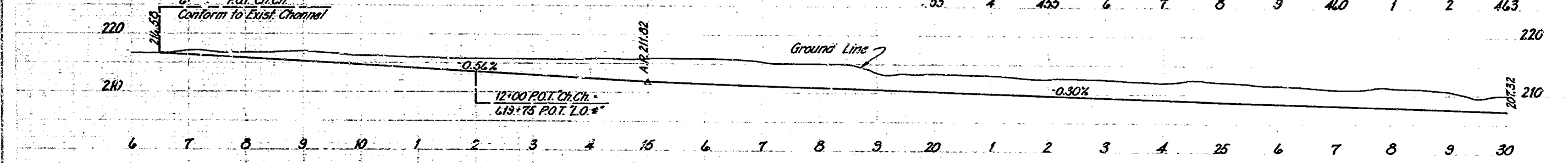
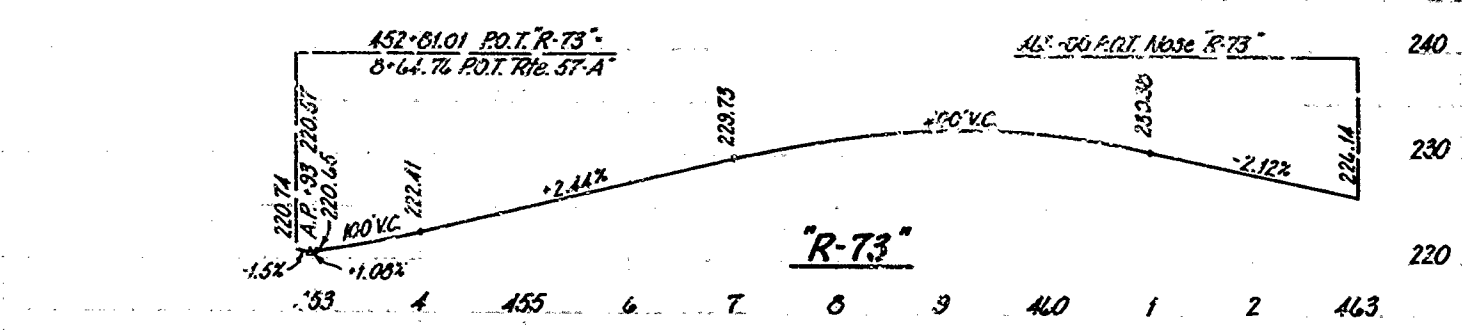
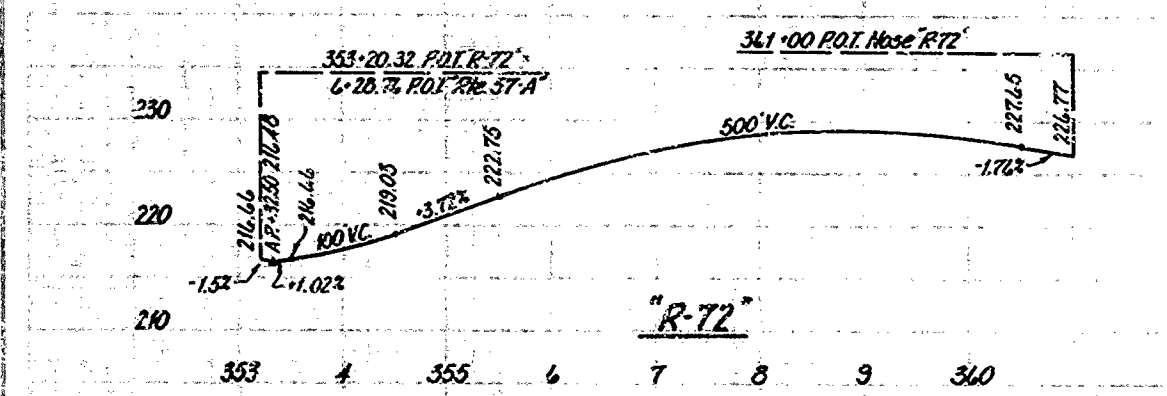
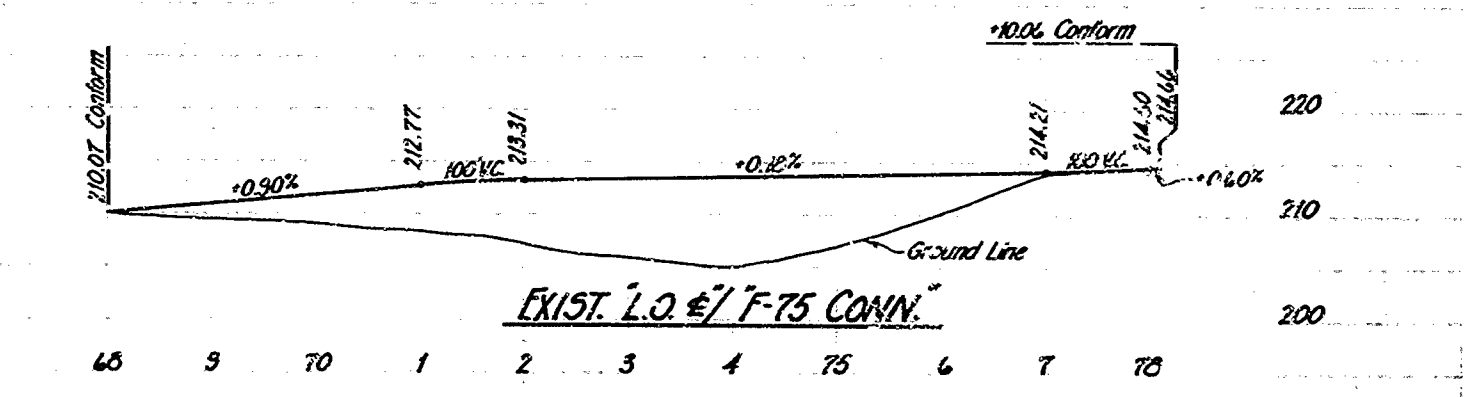
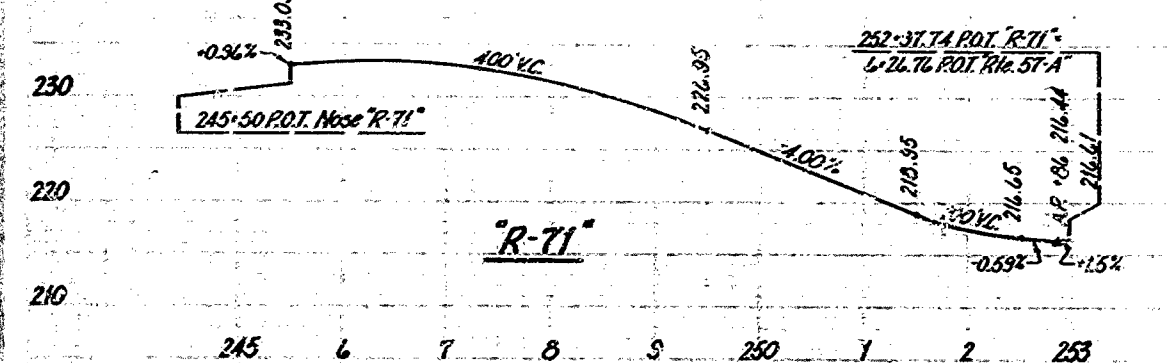
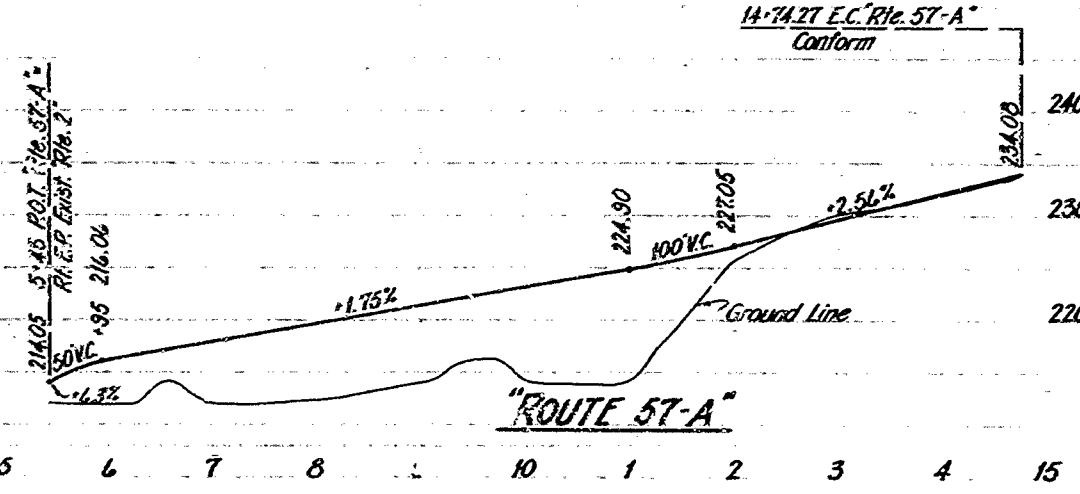
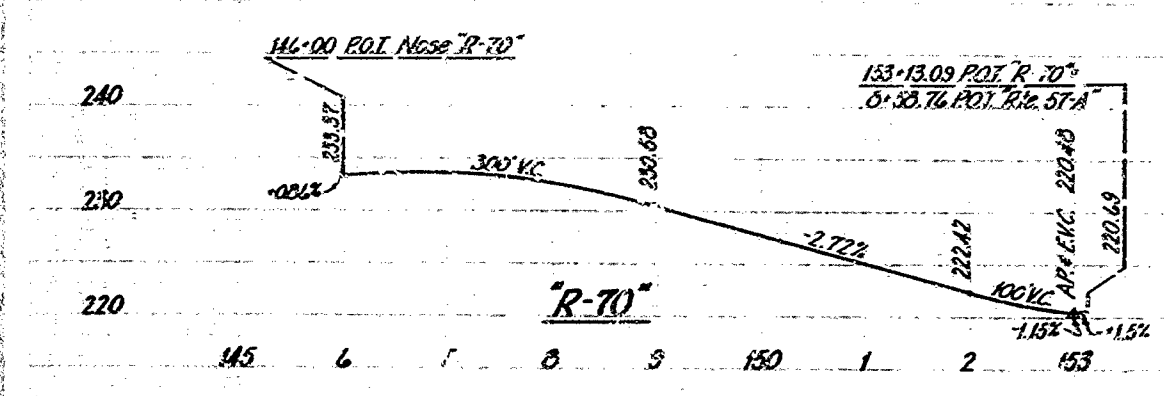
61-5V13C11

34

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RESP. MONITOR	DATE
J. E. Dwyer	8/60	[Signature]	8/60	[Signature]	[Signature]	8/60

207 1562 1710 "Miscellaneous Profiles" July 1959 51211

V 510 2 F 35 137
Annex
 August 15, 1960
J. Langner



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

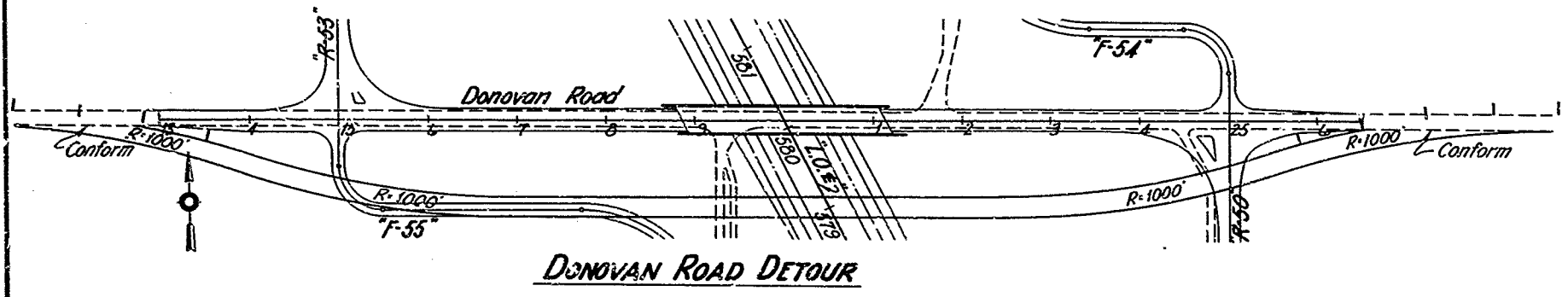
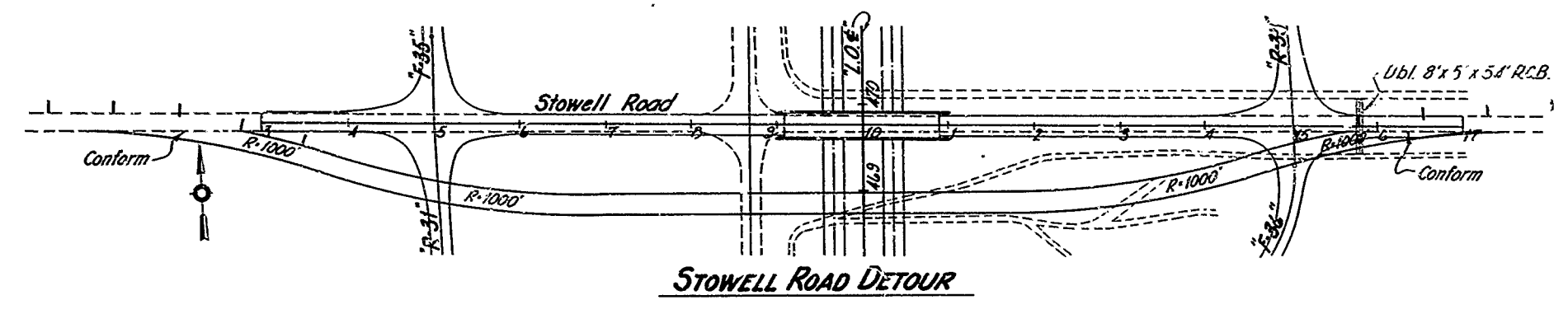
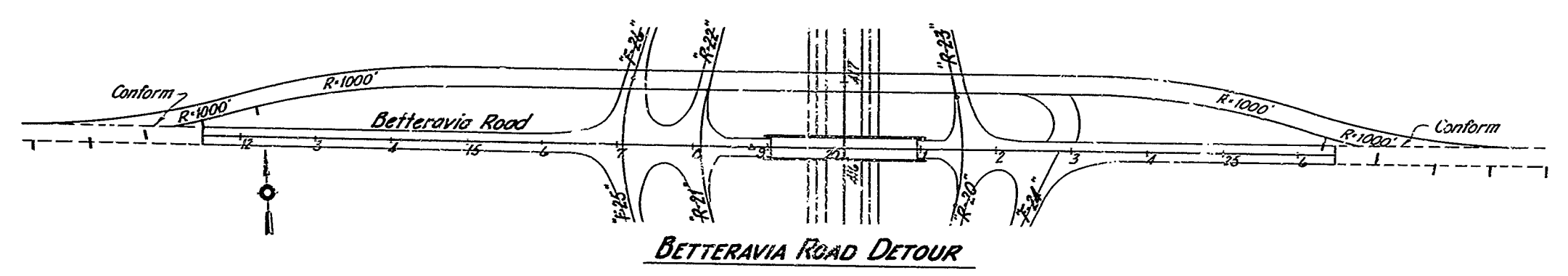
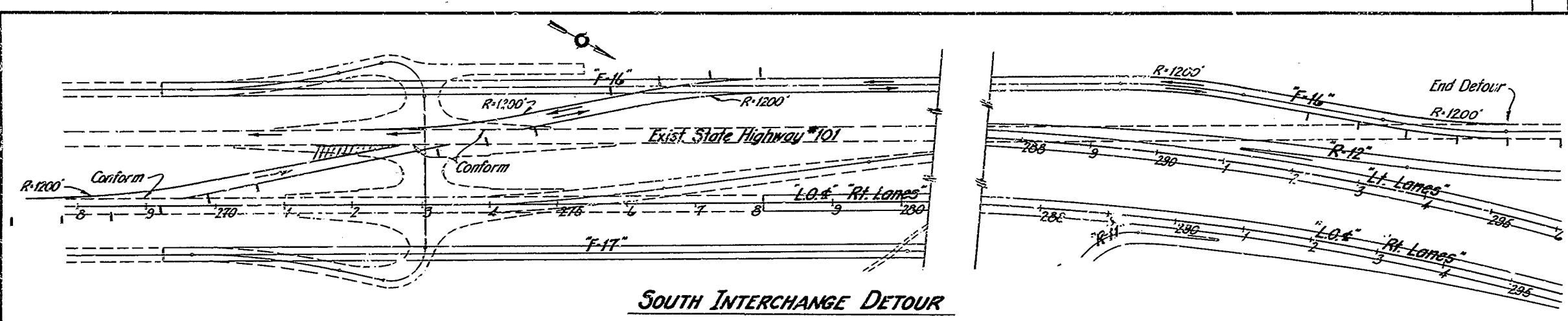
MISCELLANEOUS PROFILES
 61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	SITE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/10	[Signature]	760	[Signature]	[Signature]	7/60

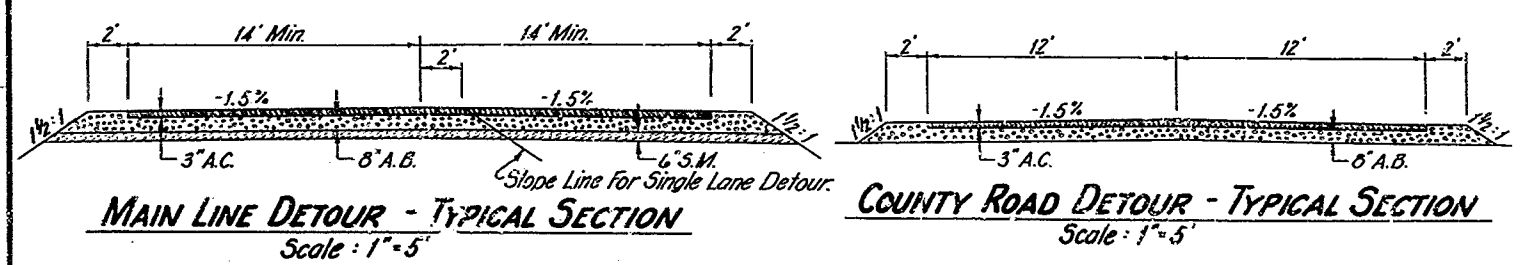
35

FPA No.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	CALIF.			36	204

DIST. COUNTY ROUTE & CTN. SHEET TOTAL
 V 58-510 2 137 36 137
 Approved
 August 15, 1960
 R. L. Jensen
 DISTRICT ENGINEER



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536



LEGEND
 Standard type 3" barrier

61-5V13C11
DETOURS
 Scale: 1"=100'

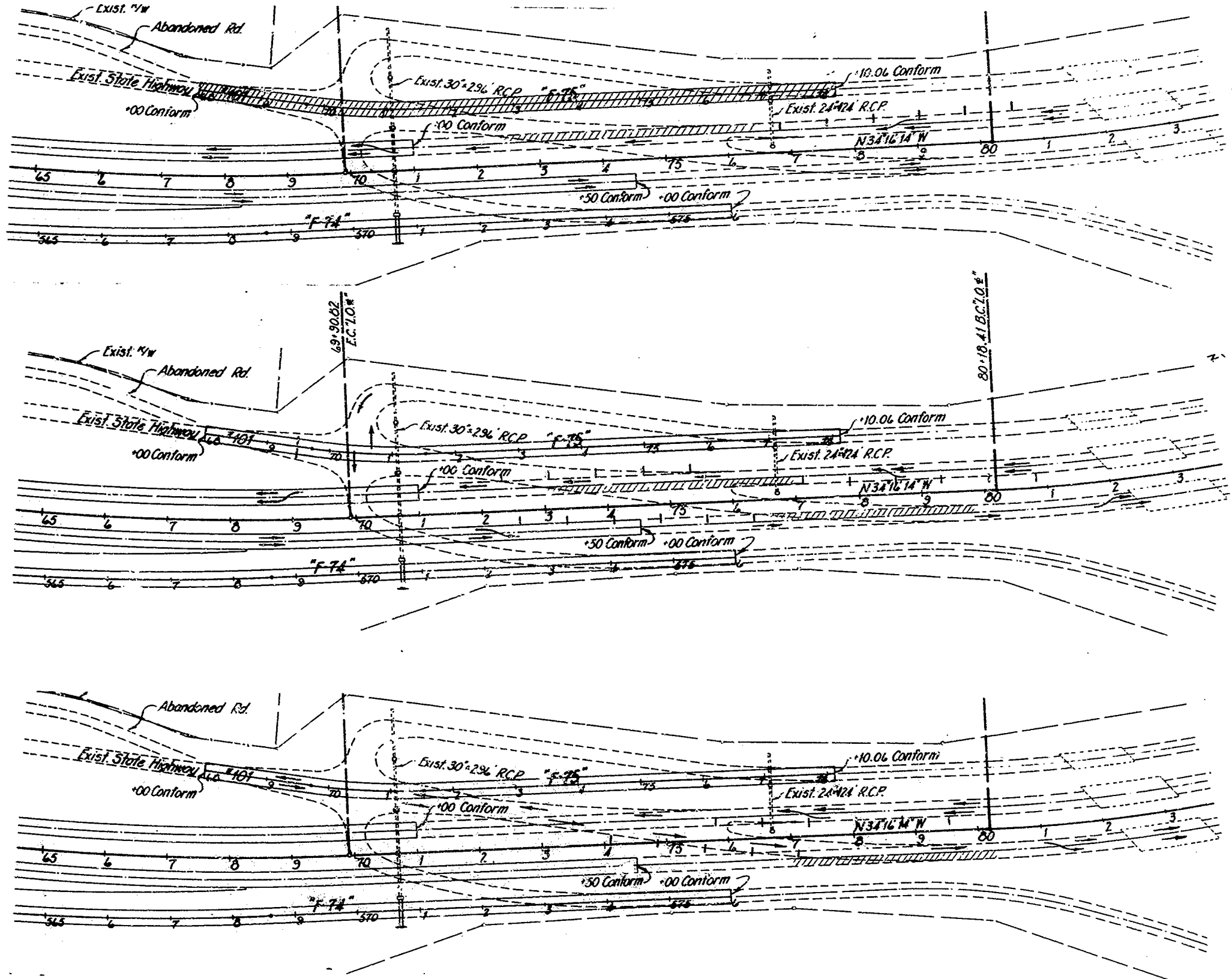
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	2/60	R. L. Jensen	3/60	R. L. Jensen	7/60

36

A.P. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	STREET NO.	TOTAL SHEETS
	CALIF.			37	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	510	2	F	37	137

A. M. Nash
 August 15, 1960
J. S. Logan
 District Engineer



STAGE III

STAGE II

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

STAGE I

Note: Stages in order of construction.

61-5V13C11
DETOURS
NORTH END
 Scale: 1"=100'

Design Dept.	Initial	Date
Designed		
Traced		
Checked		
Supervised By		

x 37

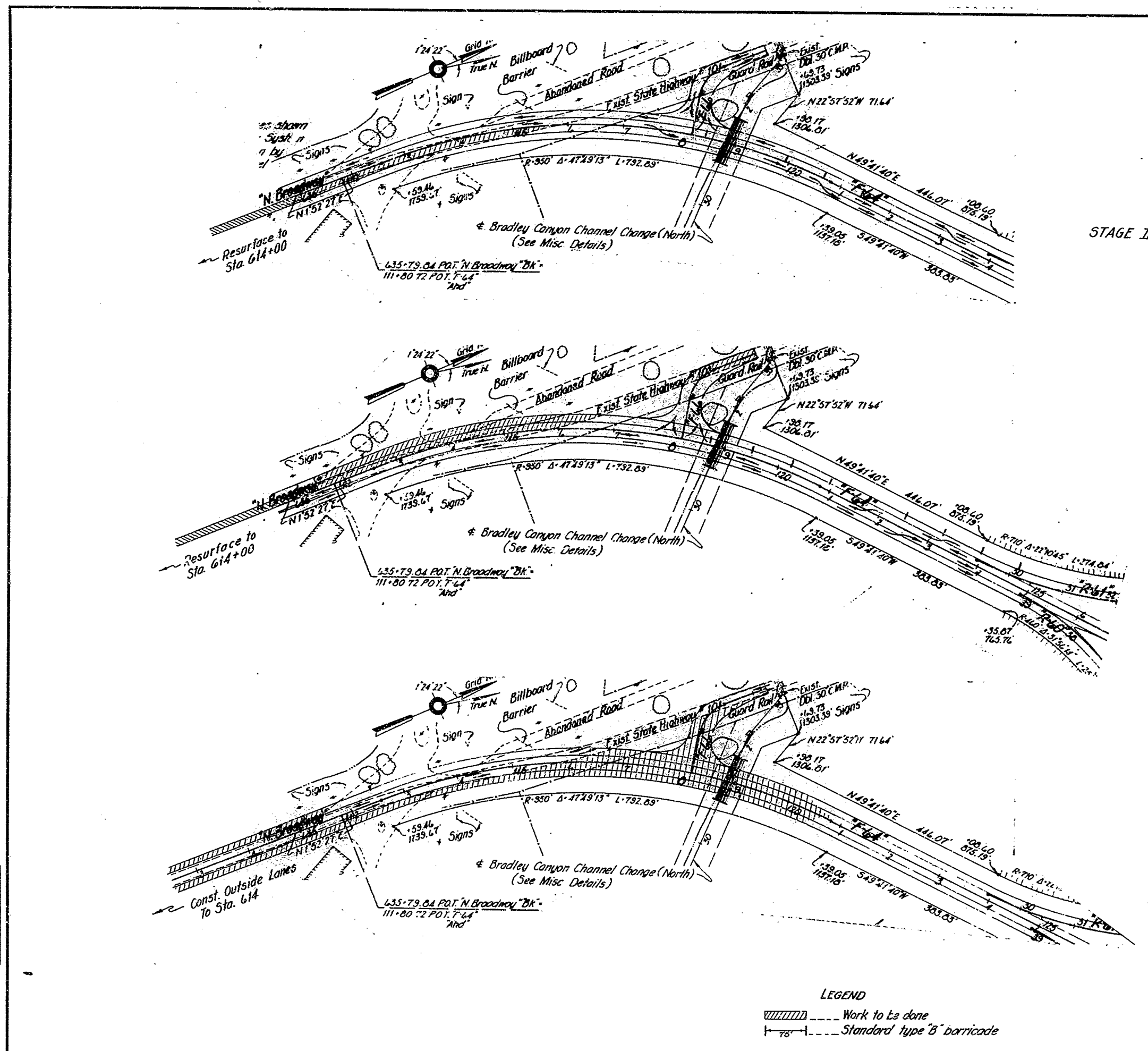
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL/RECOMMENDED BY	DATE
J. E. Hayden	2/60	[Signature]	7/60	[Signature]	7/60

100' AS BUILT

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.			38	207

DIST.	SECTION	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V 5B	2	L	38	137	

Ames
 August 15, 1960
J. D. ...
 Engineer of Public Works
 Civil Engineer License No. 9633



STAGE III

STAGE II

STAGE I

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

Note: Stages in order of construction.

61-5V13C11
DETOURS
NORTH BROADWAY
 Scale: 1"=100'

LEGEND
 Work to be done
 Standard type B barricade

Design Dept.	Label	Date
Designed		
Traced		
Checked		
Supervised By		

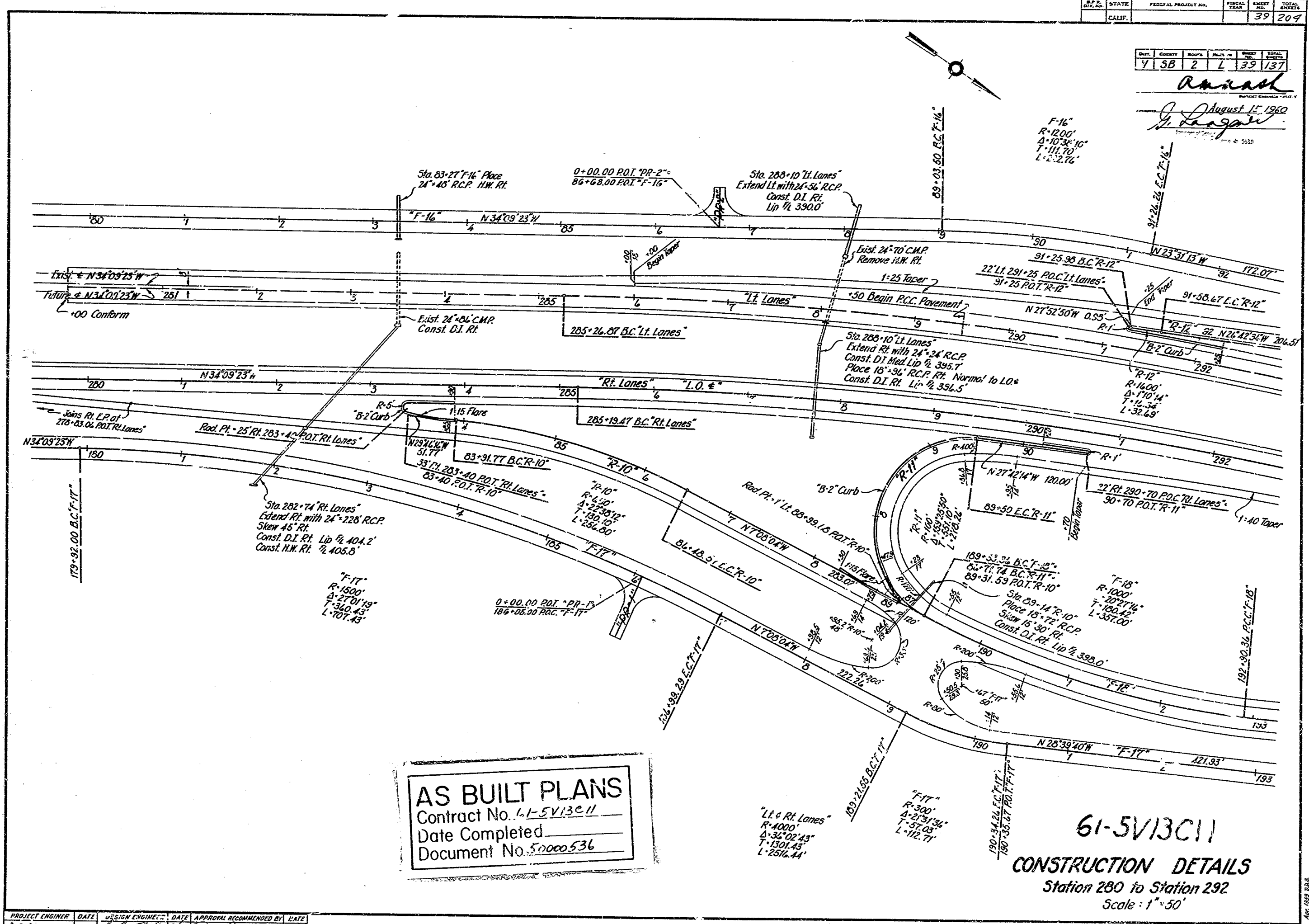
x 38

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dunson	2/60	[Signature]	7/60	[Signature]	2/60

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	KEY	TOTAL SHEETS
CALIF.			39	209

NO.	COUNTY	SHEET	OF	TOTAL SHEETS
Y	SB	2	L	39

Amiad
 August 11, 1960
J. D. Dugan
 Surveyor No. 522



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 280 to Station 292
 Scale: 1" = 50'

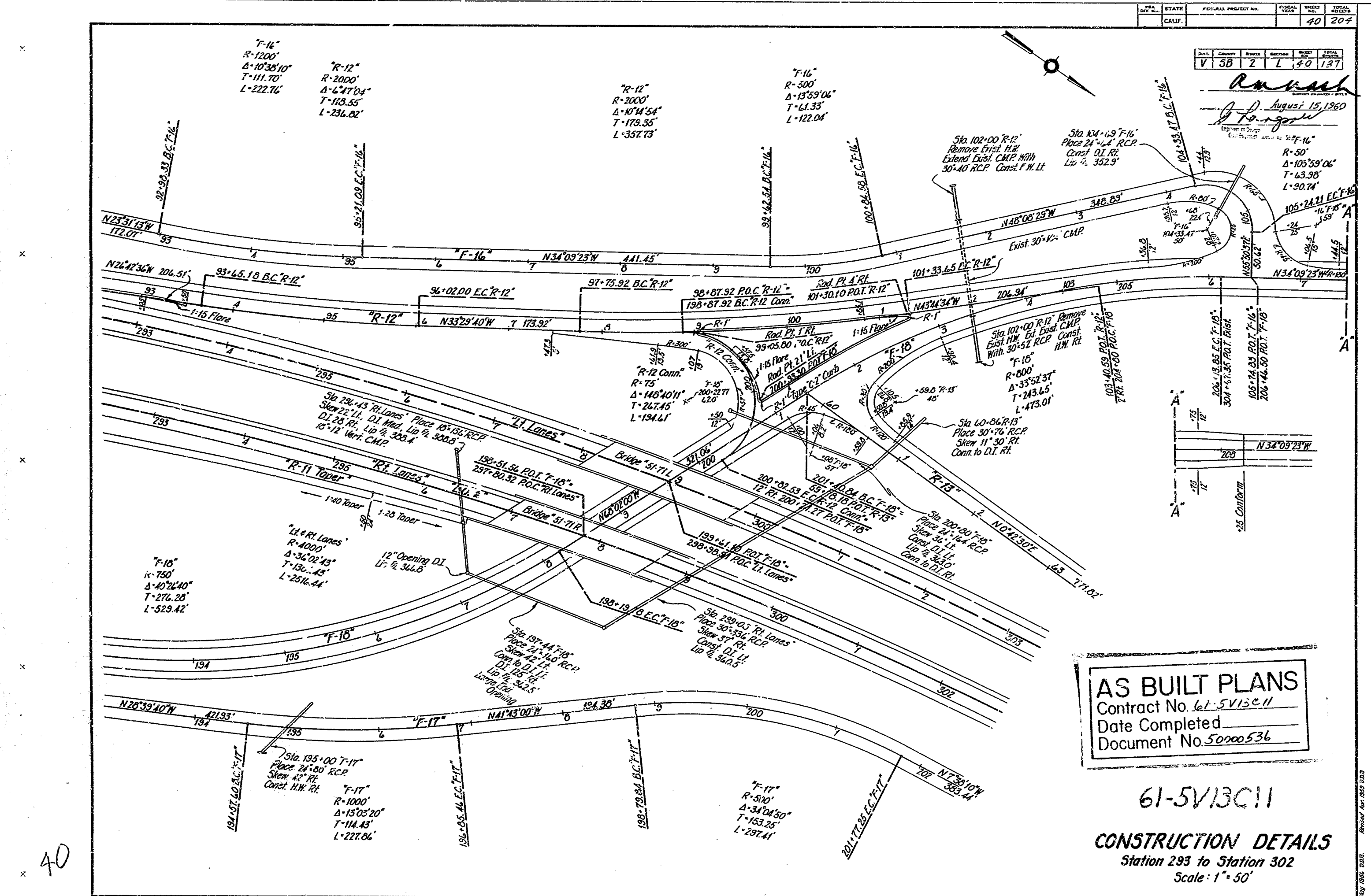
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dugan	2/60	<i>[Signature]</i>	3/60	<i>[Signature]</i>	<i>[Signature]</i>	7/60

39

DIST.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V 38	CALIF.			40	207

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL MILES
V 38	2	L 40	127		

Russell
D. Langston
 August 15, 1960
 Prepared by
 Checked by



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 293 to Station 302
 Scale: 1" = 50'

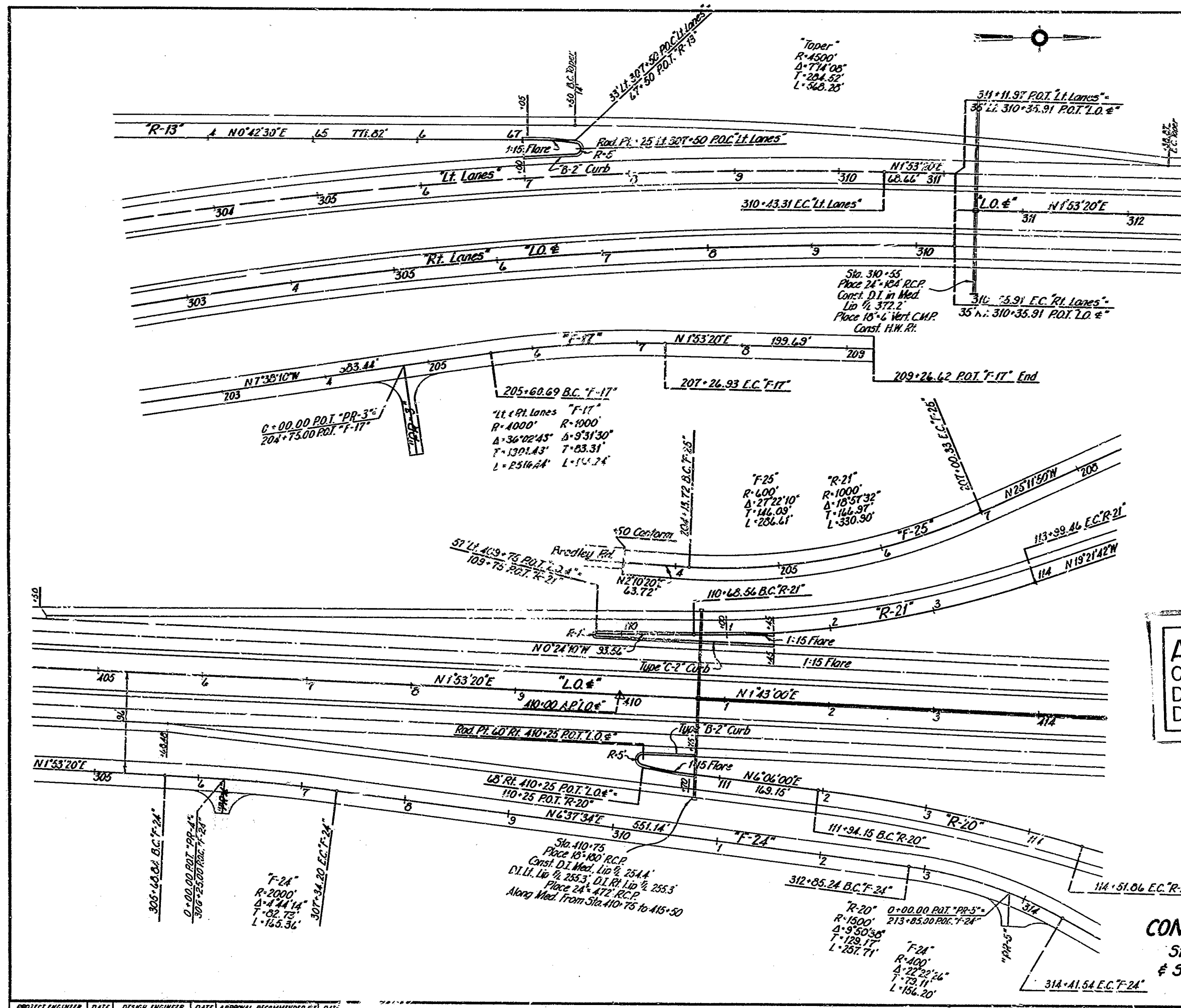
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J.E. Hayden	8/60	[Signature]	8/60	[Signature]	[Signature]	8/60

40

Approved for 61-5V13C11
 August 15, 1960

DATE	ST-TE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V 5B	?	L 41	197	41	204

Annual
 August 15, 1960
J. Deaguer
 Engineer in Charge
 Cal. P.E. No. 2539



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 303 to Station 312
 & Station 405 to Station 414
 Scale: 1" = 50'

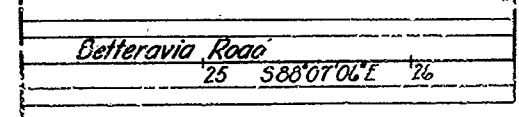
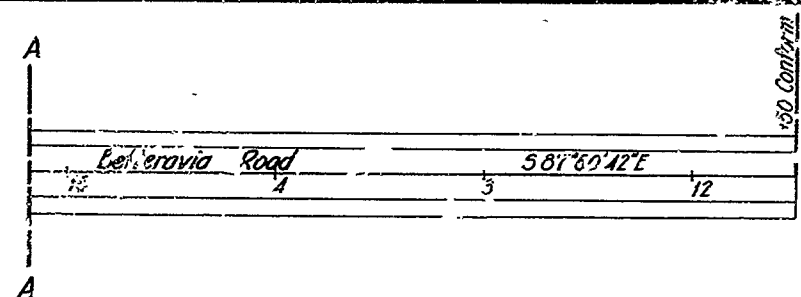
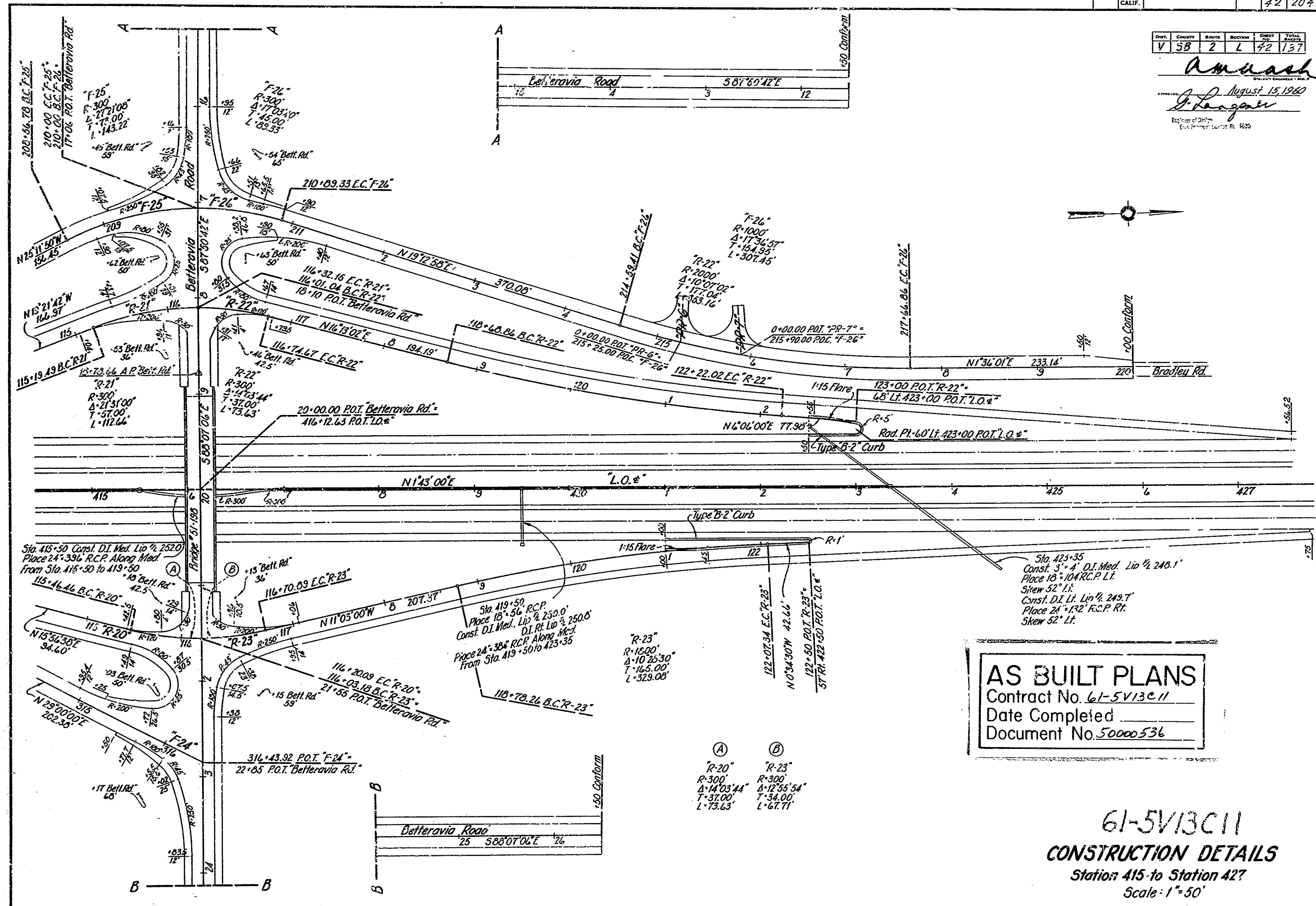
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
B. E. Douglas	7/60	<i>[Signature]</i>	7/60	A. G. [Signature]	7/60

x
 A1

FPA. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			42	204

DATE	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	58	2	L	42	137

Amcrash
 August 15, 1960
J. S. Logan
 Engineer of Survey
 License No. 9829



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

- Ⓐ R-20
R-300
Δ-14°03'44"
T-37.00'
L-73.63'
- Ⓑ R-23
R-300
Δ-12°55'54"
T-34.00'
L-67.77'

61-5V13C11
CONSTRUCTION DETAILS
 Station: 415 to Station 427
 Scale: 1"=50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Snyder	2/60	J. S. Logan	7/60		J. S. Logan	7/60

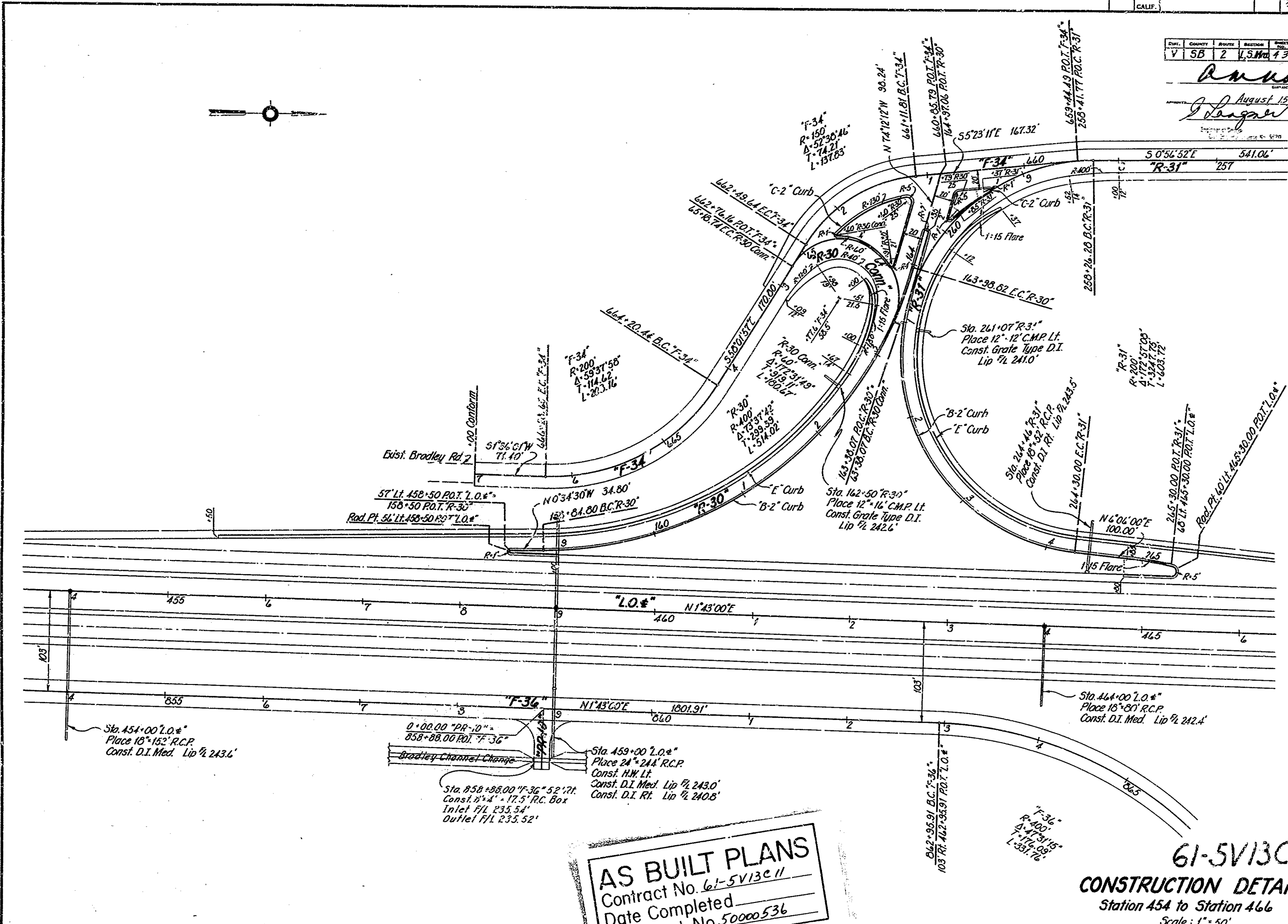
A2

FORM WP-23 P.C. 11-58 (REV. 1-15-58) 1500

DIST.	COUNTY	SHEET NO.	TOTAL SHEETS
V	SB	2	43

DATE	BY	REVISION
Aug 15 1960	R. Wagner	137

R. Wagner
August 15, 1960



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

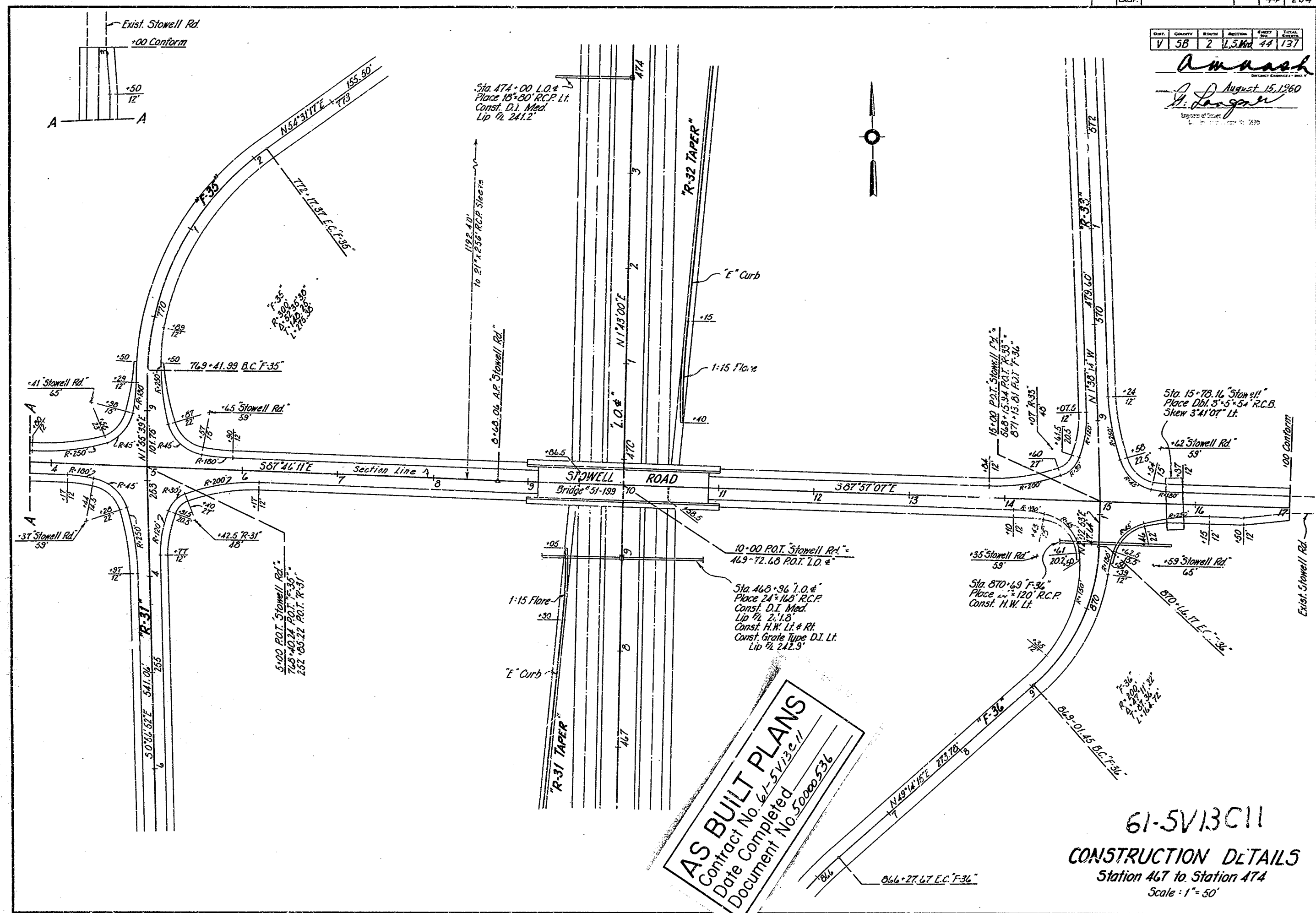
61-5V13C11
CONSTRUCTION DETAILS
Station 454 to Station 466
Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Simpson	2/60	[Signature]	7/60	[Signature]	R. Wagner	7/60

A3

FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			44	204

V 5B 2 1.5 Mo 44 137
 Amnash
 August 15, 1960
 H. Langner
 License No. 2078



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

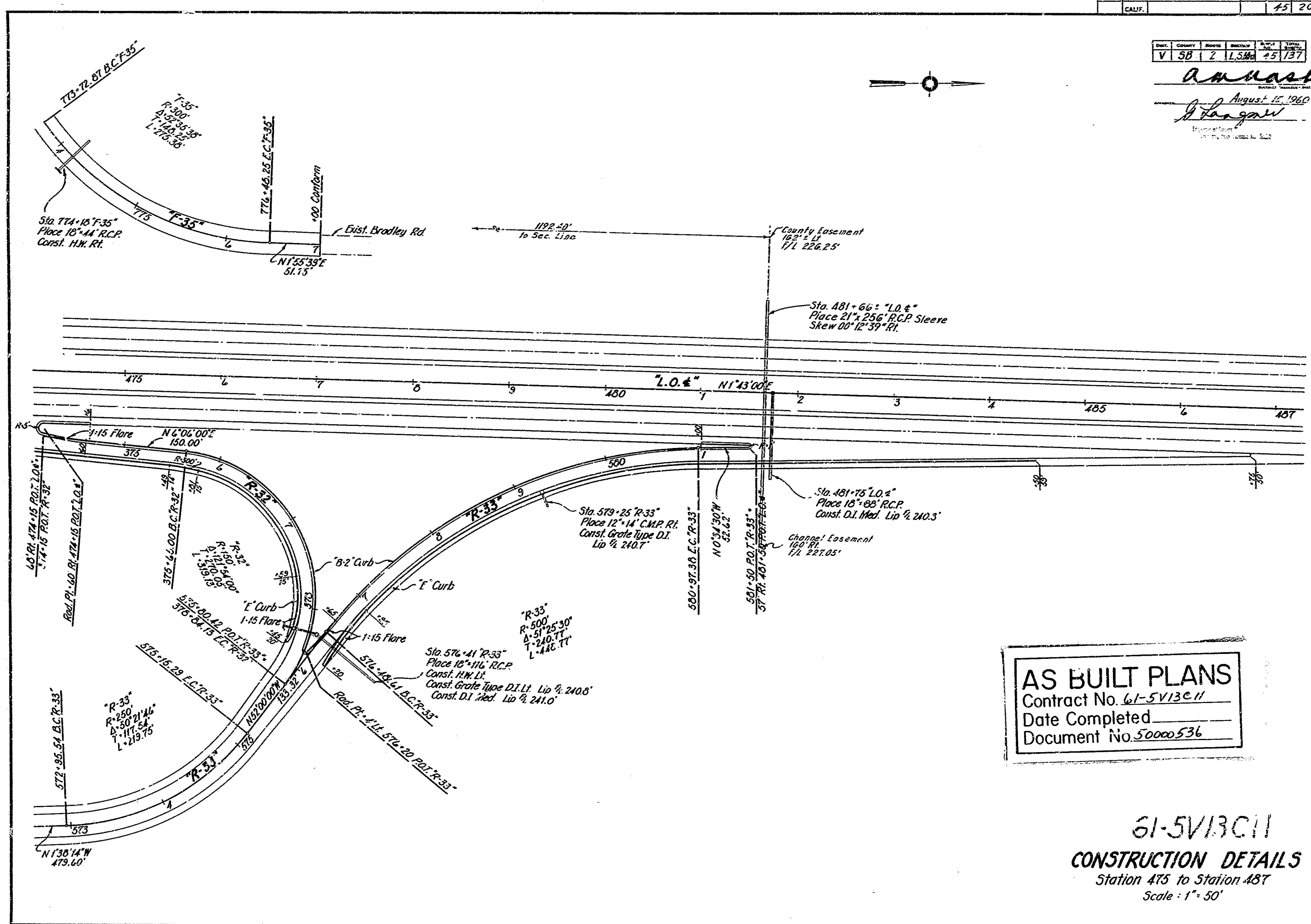
61-5V13C11
CONSTRUCTION DETAILS
 Station 467 to Station 474
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
E. Snyder	2/6/60	[Signature]	7/60	[Signature]	[Signature]	7/60

14

SHEET NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V 58	CALIF.	2	1960	45	204

August 15, 1960
 W. Langner
 Engineer



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 475 to Station 487
 Scale: 1" = 50'

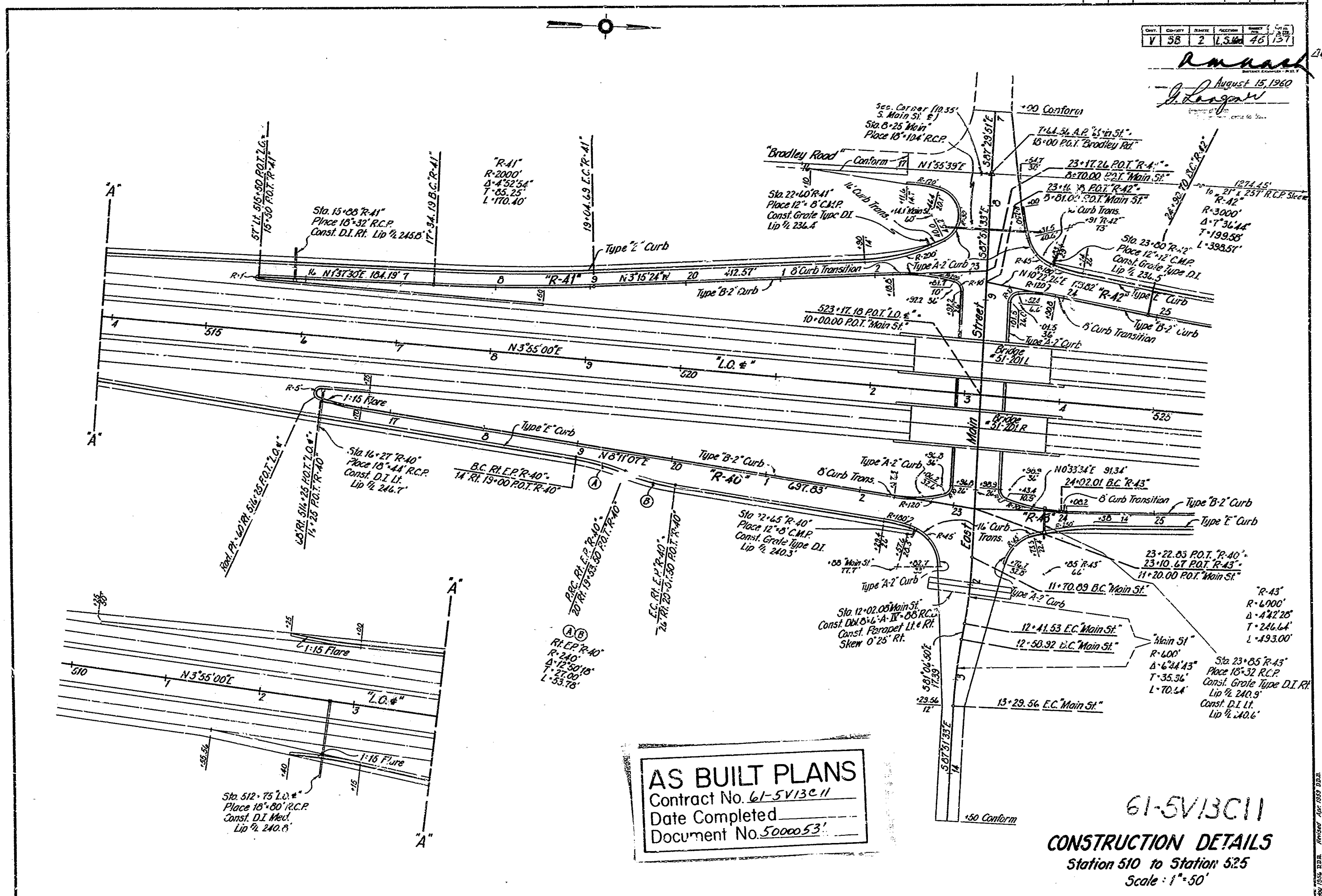
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/66	[Signature]	7/60	[Signature]	[Signature]	7/60

A5

FORM 1057 (10-59)

Dist.	Station	Grade	Height	Notes
V	58	2	1.5	48

R. M. ...
 August 15, 1960
R. M. ...



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 5000053

61-5V13C11
CONSTRUCTION DETAILS
 Station 510 to Station 525
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	<i>[Signature]</i>	2/60	<i>[Signature]</i>	<i>[Signature]</i>	2/60

46

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.			47	204

DATE	DESIGNED BY	CHECKED BY	APPROVED BY
V 5B 2	L.S. M...		

Amual
J. August 15, 1960
J. Langner

Sta 535+77 ± "L.O.#"
 Place 21" x 25" RCP Sleeve
 Skew 01° 50' 14" RI.

Sta 534+00
 Const. D.I. Med. Lip 1/4 230.7
 Place 18" x 80" RCP RI.

Sta 572+00
 Const. D.I. Med.
 Lip 1/4 230.0
 Place 18" x 80" RCP LI.

Sta 73+00 (R-51)
 18" x 48" C.M.P. H.W. Lt.
 Type E Curb, Grate Type D.I.
 Lip 1/4 229.3

Sta 71+45 (R-51)
 4" x 45" P.O.T. R-51
 N27°00'20"W 2.86'
 74+42.14 E.C. R-51
 R-51
 R-100
 Δ-151' 14" 04"
 T-309.96
 L-263.95

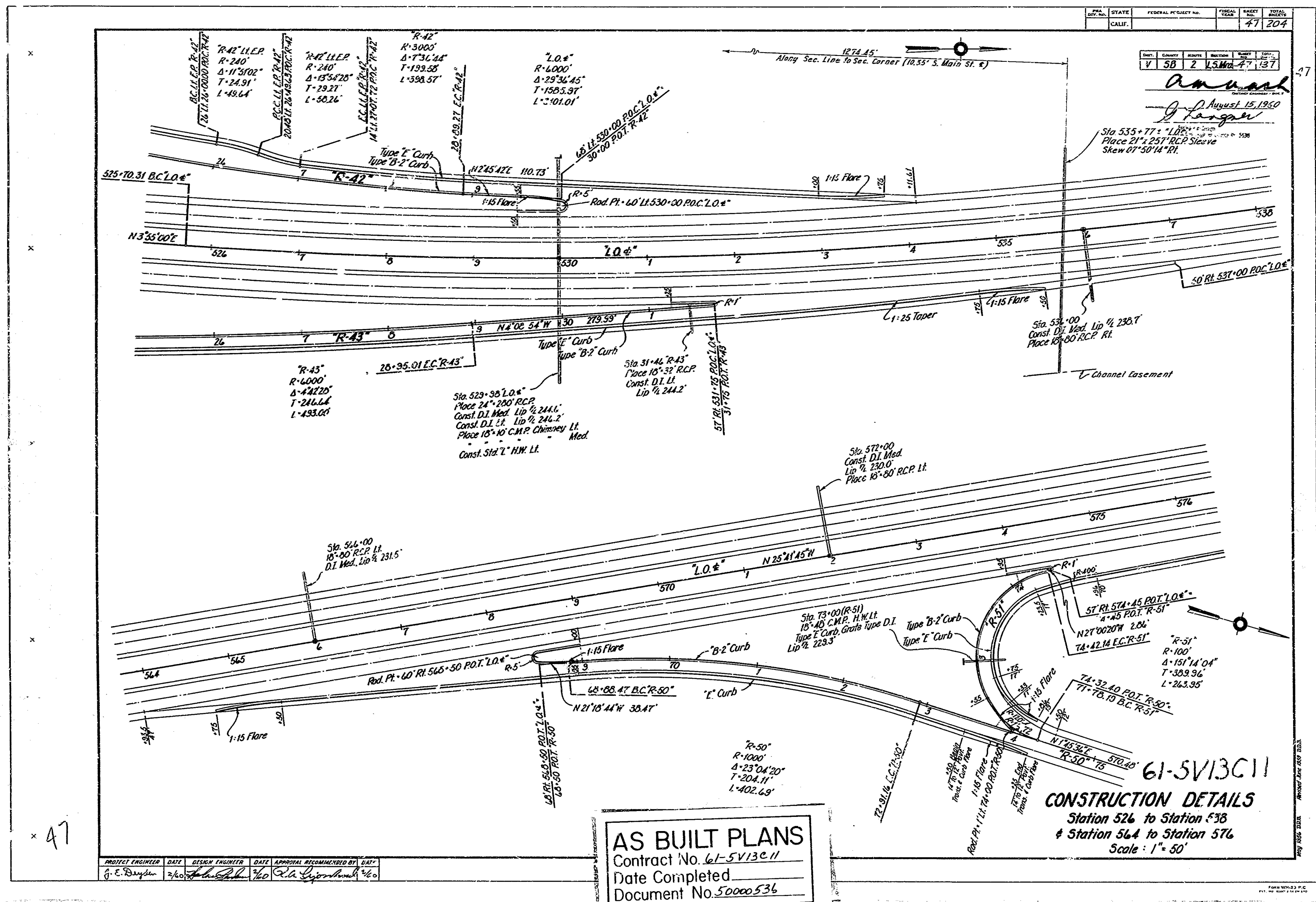
R-50
 R-1000
 Δ-23° 04' 20"
 T-204.11'
 L-402.69'

61-5V13C11
CONSTRUCTION DETAILS
 Station 526 to Station 538
 & Station 564 to Station 576
 Scale: 1" = 50'

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dungen	2/60	<i>[Signature]</i>	2/60	<i>[Signature]</i>	2/60

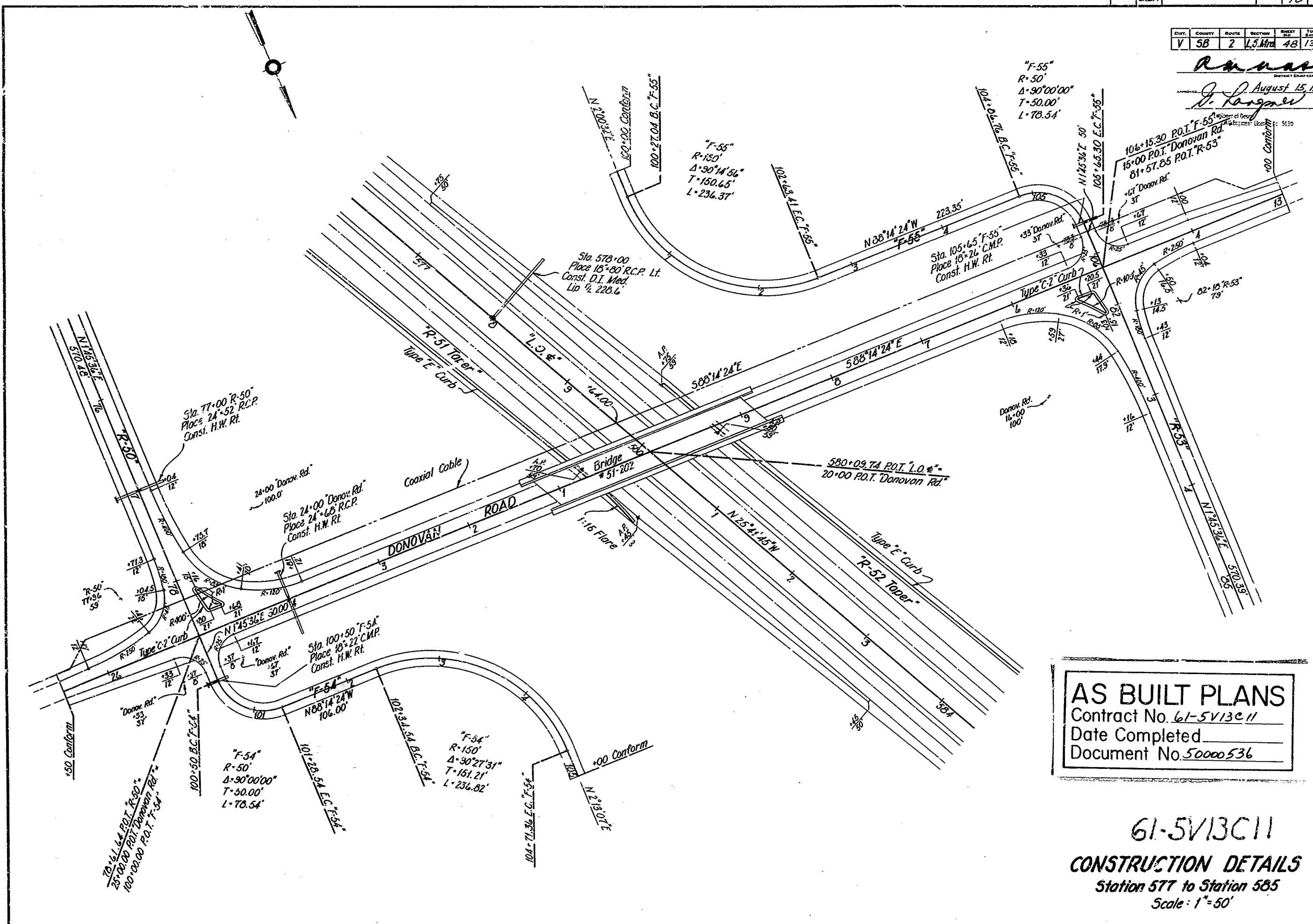
47



P.C.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V	CALIF.			48	137

CHY.	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
V	SB	2	V.S.Md	48	137

R. Marshall
 August 15, 1960
J. Ragnan



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 577 to Station 585
 Scale: 1"=50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Boyden	2/60	[Signature]	3/60	[Signature]	[Signature]	3/60

48

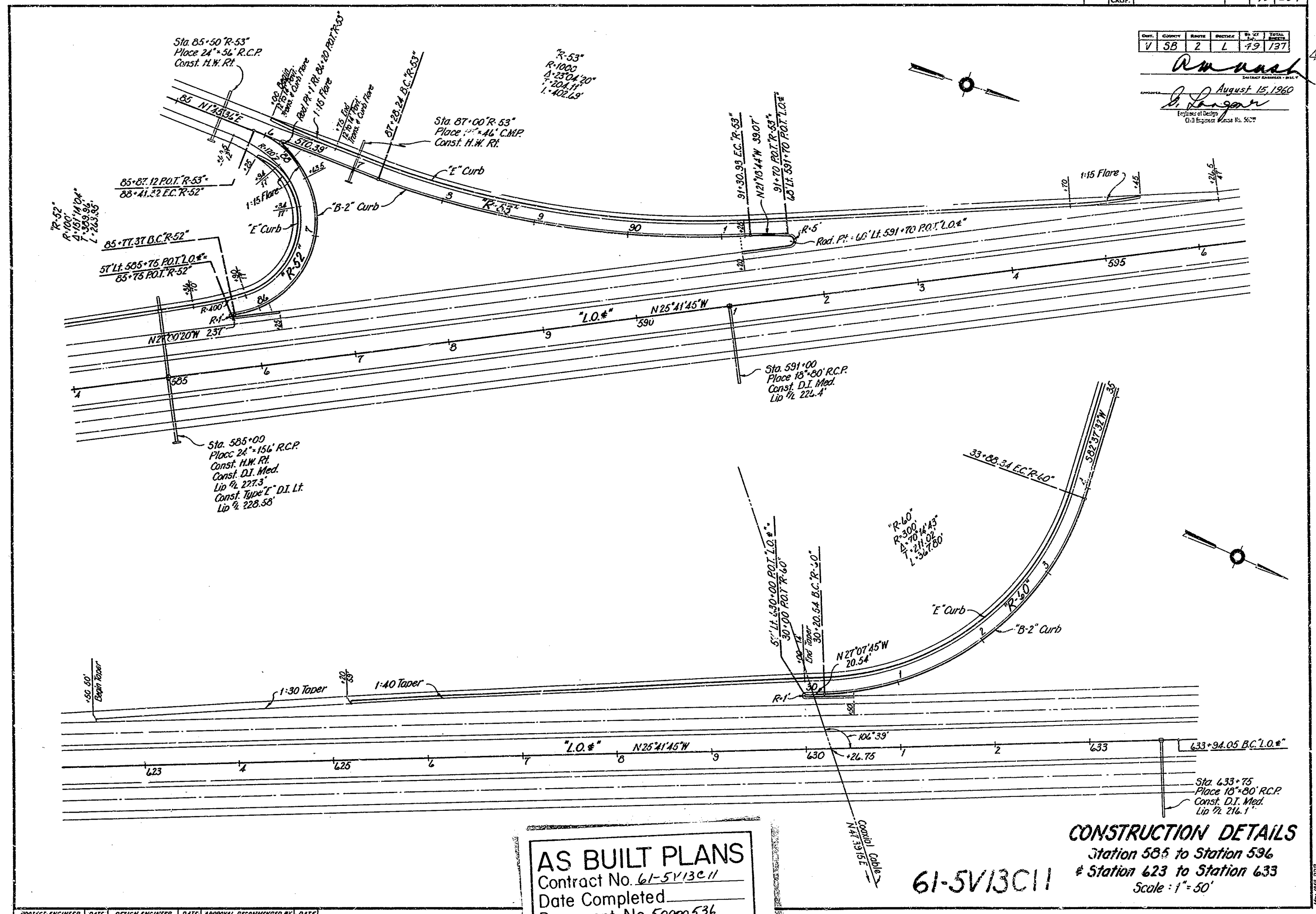
48

10

F.P. No.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	CALIF.			49	204

DATE	COUNTY	RANGE	SECTION	TWP. 27	TOTAL SHEETS
V	58	2	L	19	137

R. M. ...
 August 15, 1960
R. M. ...
 Engineer of Survey
 613 Exposition Blvd. No. 507



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

CONSTRUCTION DETAILS
 Station 585 to Station 596
 # Station 623 to Station 633
 Scale: 1" = 50'

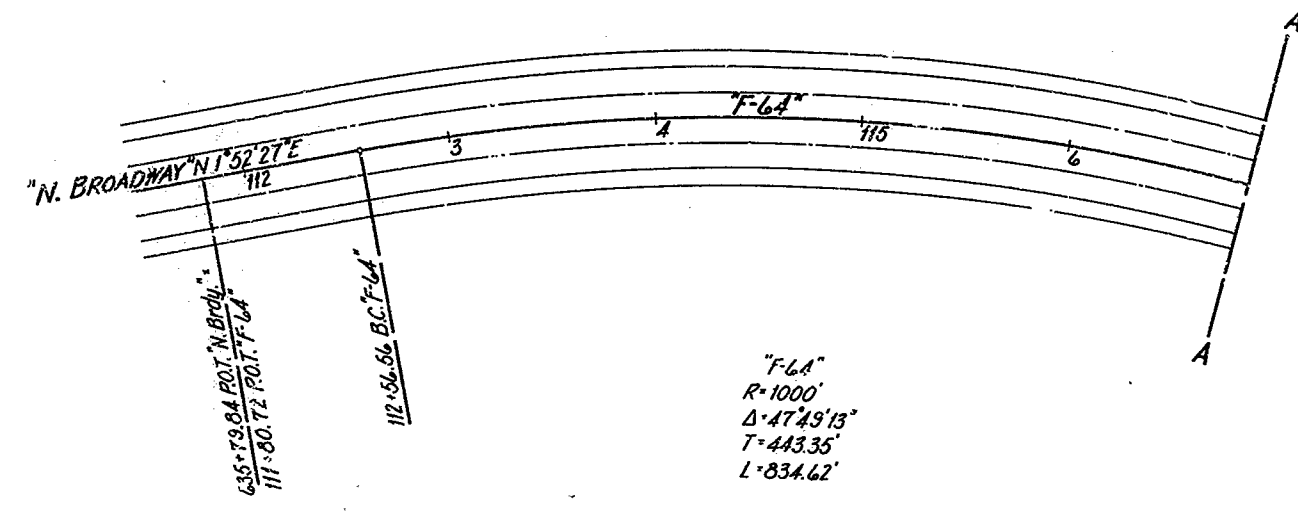
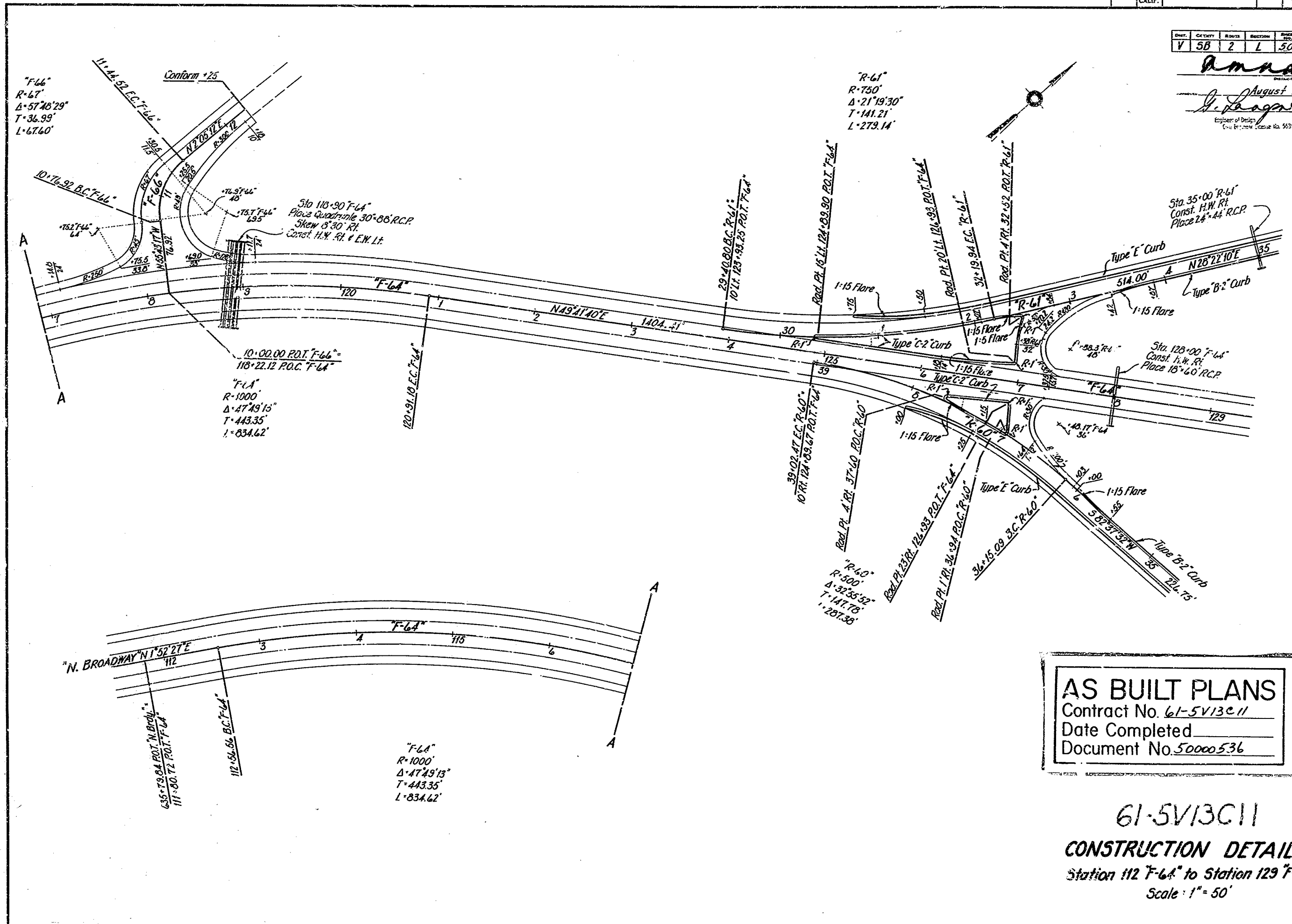
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
E. R. ...	2/60	R. M. ...	7/60		R. M. ...	7/60

49

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.			204	

DATE	BY	REVISION	NO.	TOTAL
V	58	2	L	50

Amrad
 August 15, 1960
H. Lagan
 Engineer of Design
 Civil Engineer License No. 5039

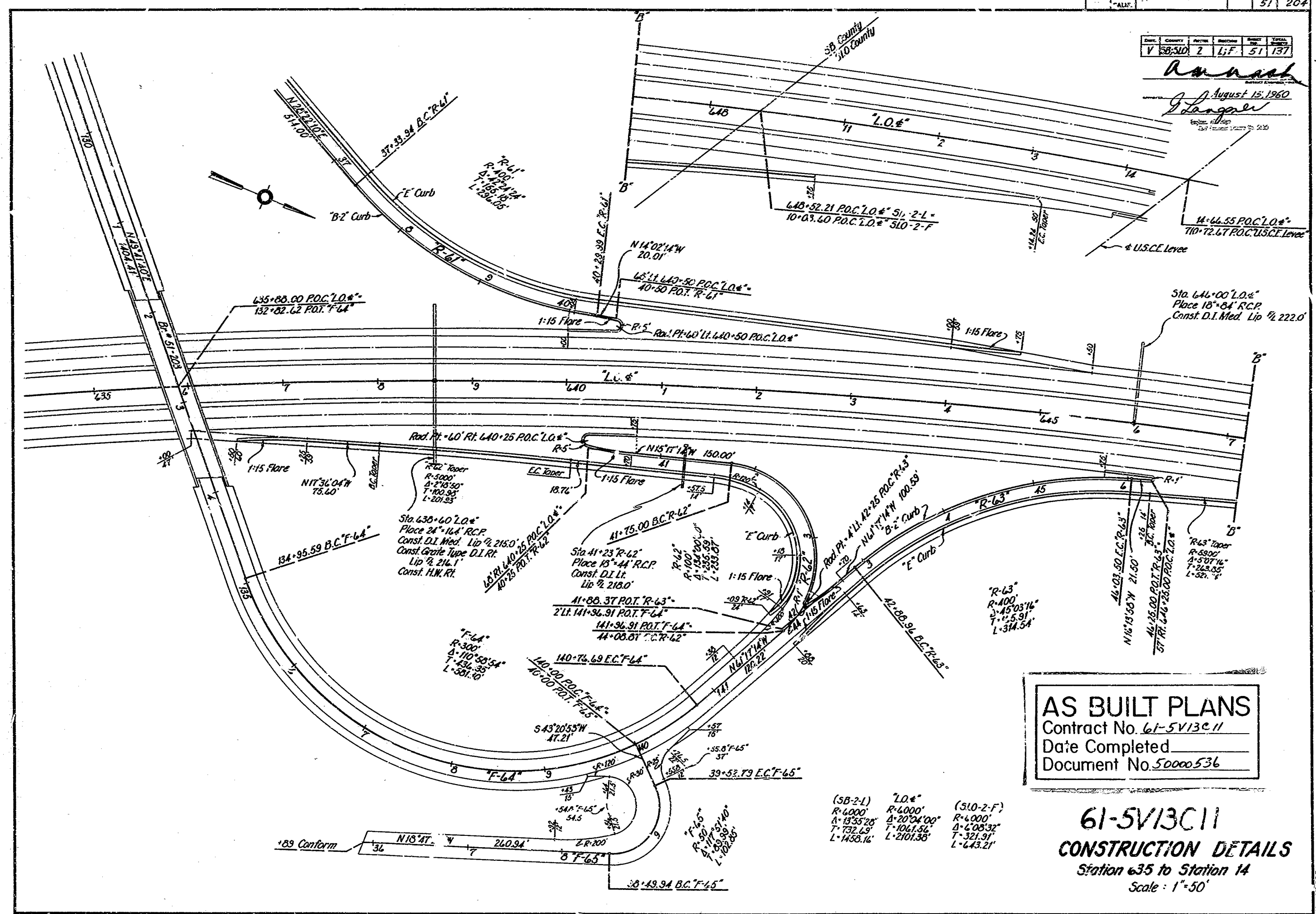


AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 112 F-64 to Station 129 F-64
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
G.E. Dryden	2/60	H.L. Lagan	7/60	H.L. Lagan	7/60

V 61-5V13C11
 LIF 51 137
 August 15, 1960
 J. Langner
 Engineer



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 635 to Station 14
 Scale: 1"=50'

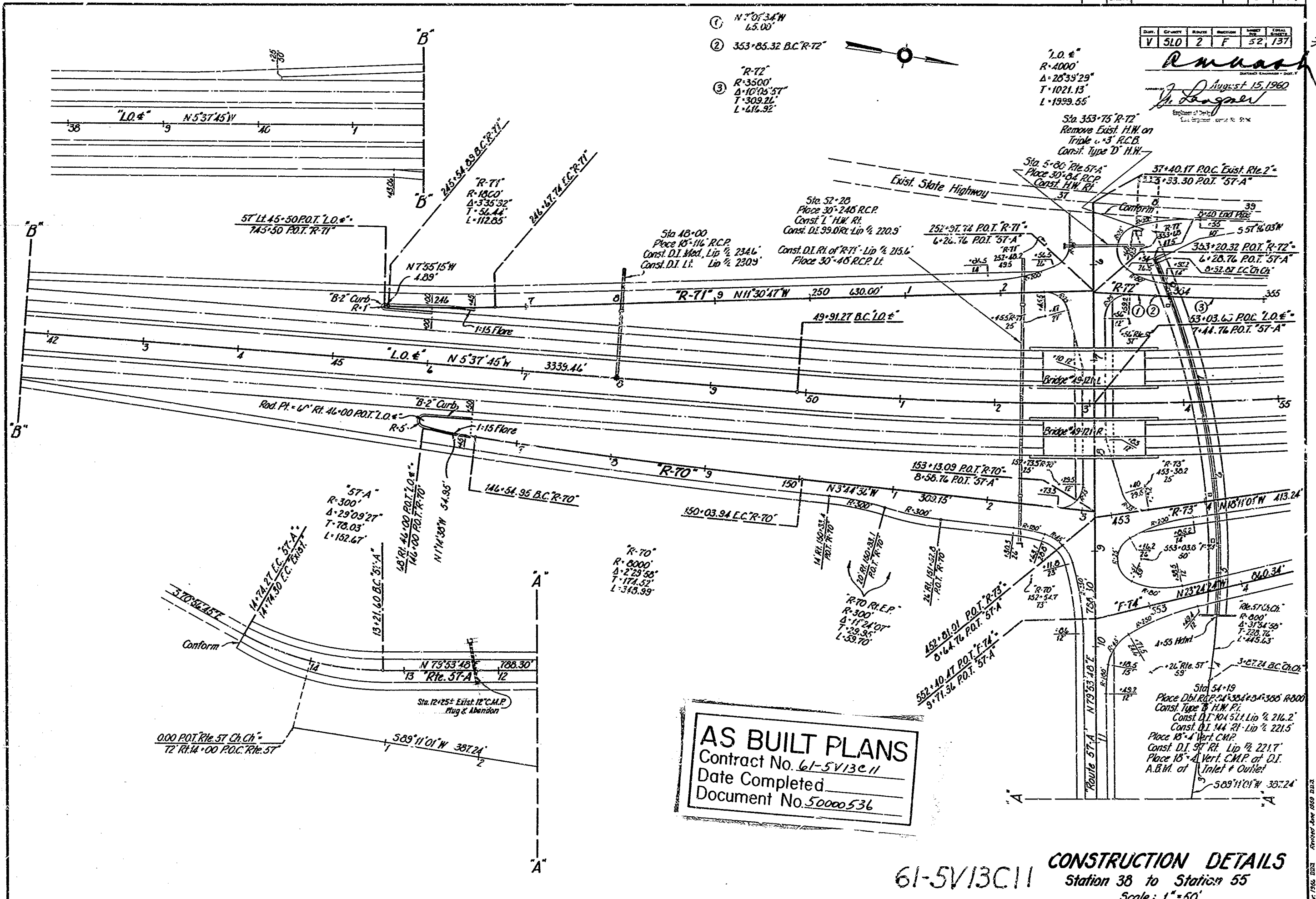
(SB-2-L) 2.0%
 R=4000' A=2034'00"
 T=192.63' L=2101.38'
 L=1468.16'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Bryden	8/6	J. Langner	8/6	OLG	J. Langner	8/6

51

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.			52	207

DIST.	COUNTY	SECTION	SHEET NO.	TOTAL SHEETS
V	510	2	F	52, 137



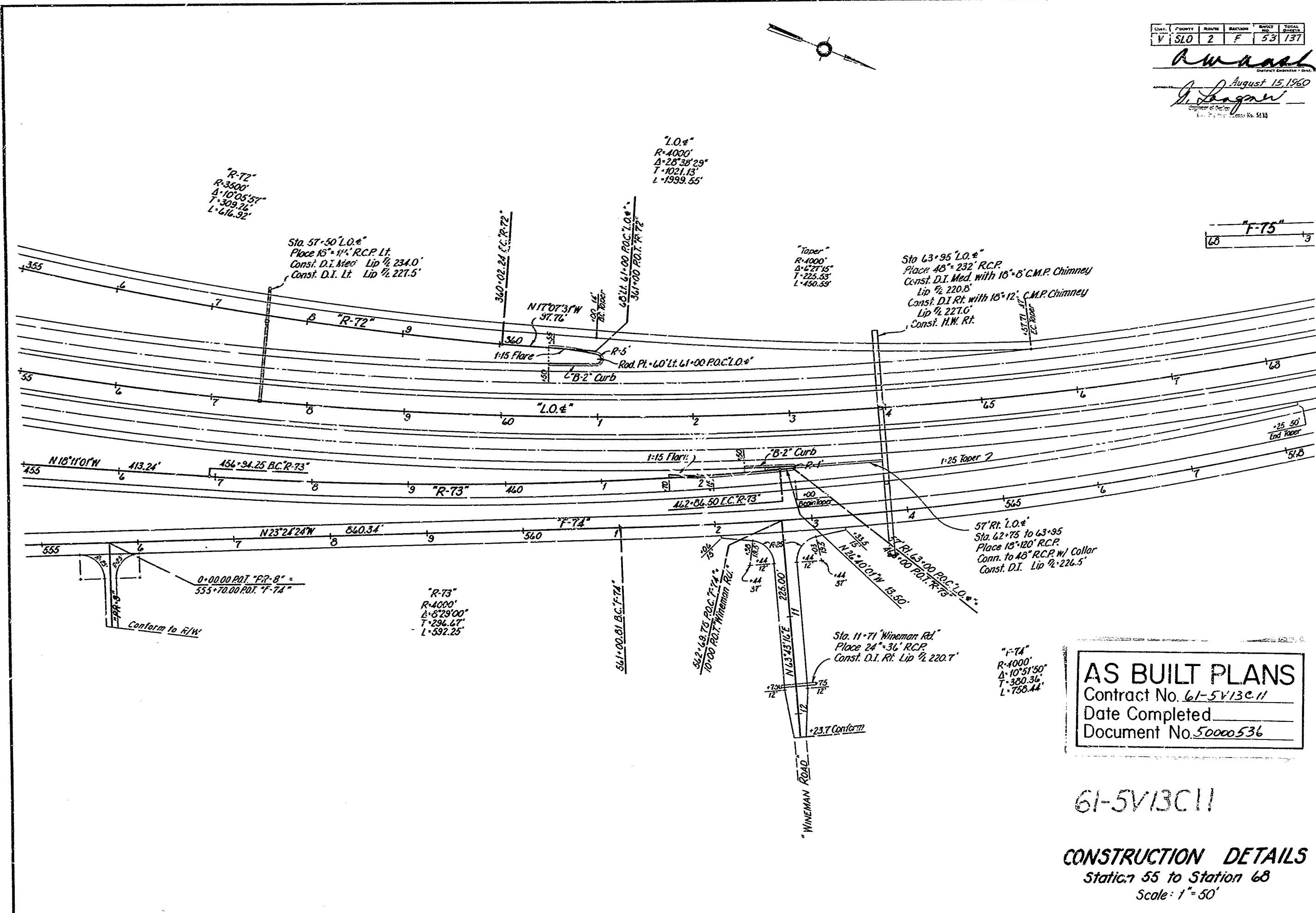
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. C. ...	2/60	...	...		...	...

52

52

FORM 1706 JAN 1959

August 15, 1960
H. Lagner
 Engineer & Surveyor
 License No. 5111



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
CONSTRUCTION DETAILS
 Station 55 to Station 68
 Scale: 1" = 50'

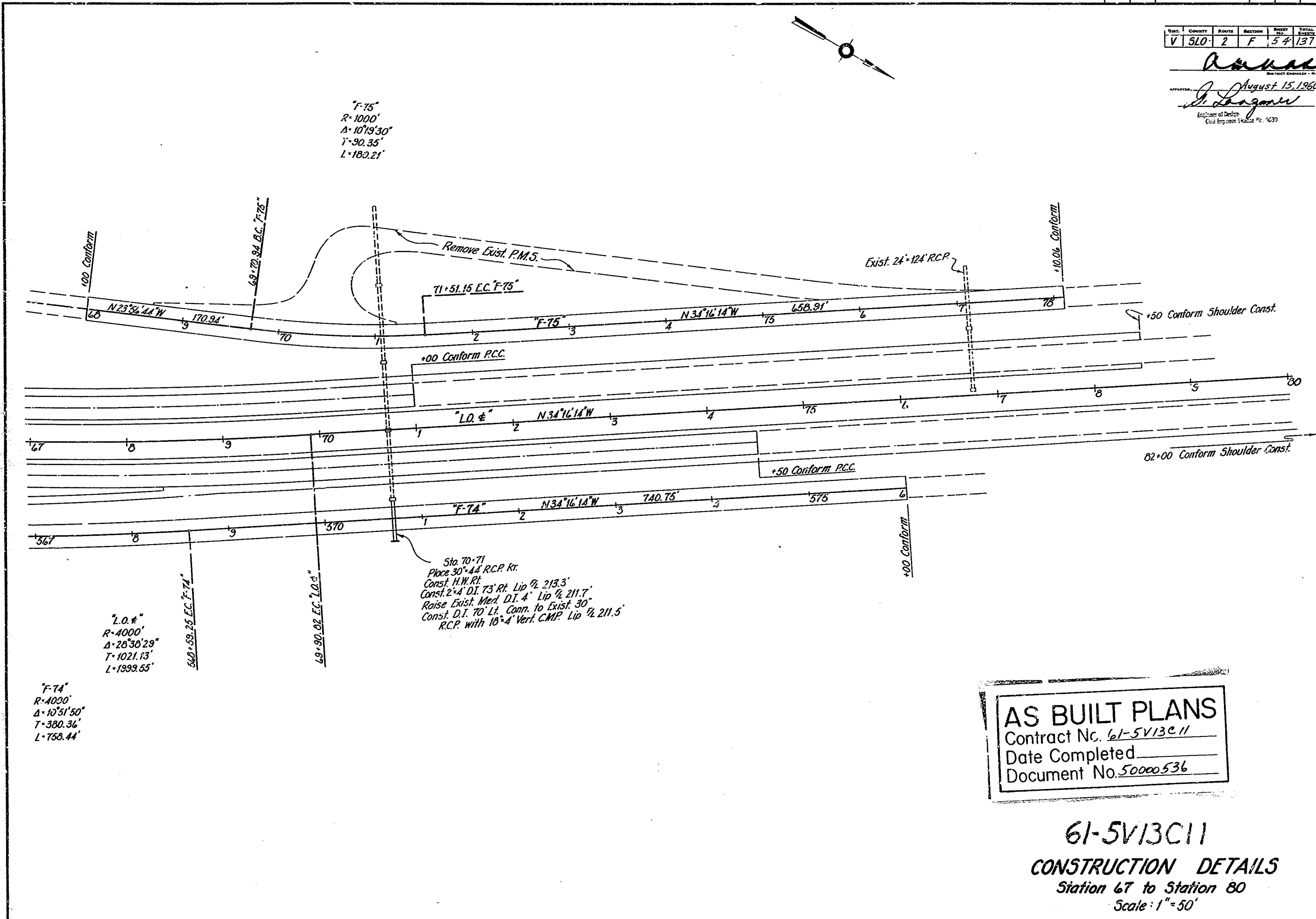
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
G. E. Snyder	3/60	<i>[Signature]</i>	3/60	<i>[Signature]</i>	3/60

53

PRA. DIV. No.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
	CALIF.			54	204

DATE	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
V 5/10	2	F	54	137	

Amund
 August 15, 1960
A. Logan
 Engineer of District
 Civil Engineer License No. 1429



"F-75"
 R=1000'
 Δ=10°19'30"
 T=90.35'
 L=180.21'

"L.O.#"
 R=4000'
 Δ=28°36'29"
 T=1021.13'
 L=1999.55'

"F-74"
 R=1000'
 Δ=10°51'50"
 T=380.36'
 L=768.44'

Sta. 70+71
 Place 30" 4" R.C.P. Rr.
 Const. 1 1/2" R.I.
 Const. 2 1/4" D.I. 7 3/4" R.I. Lip 1/2 213.3'
 Raise Exist. Med. D.I. 4' Lip 1/2 211.7'
 Const. D.I. 70' Lt. Conn. to Exist. 30'
 R.C.P. with 18" 4' Vert. C.M.P. Lip 1/2 211.5'

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

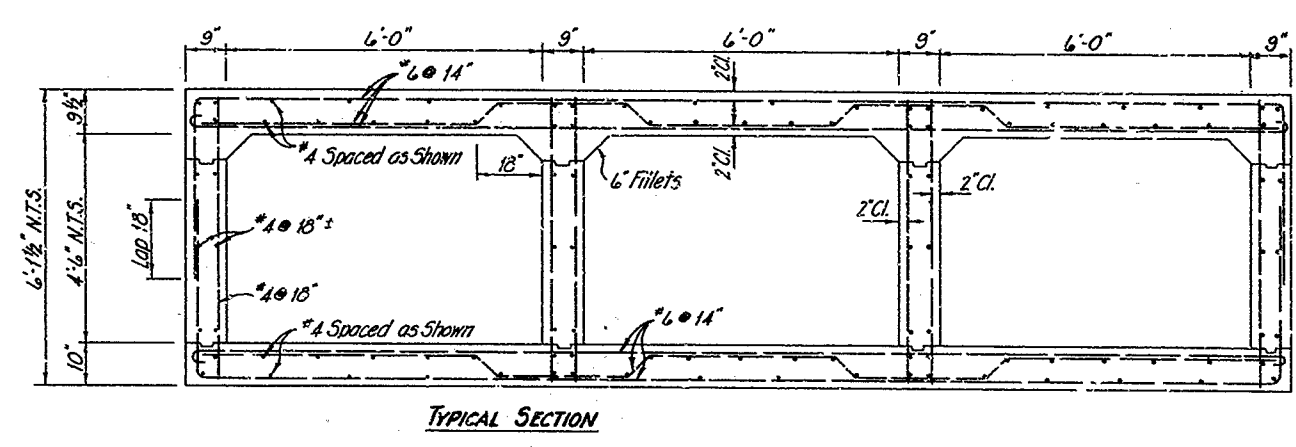
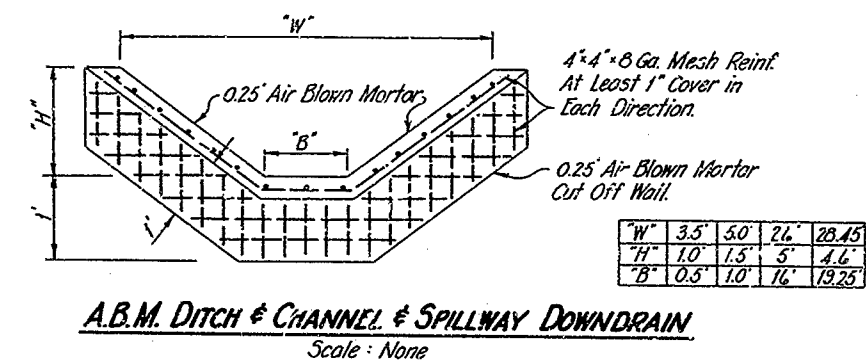
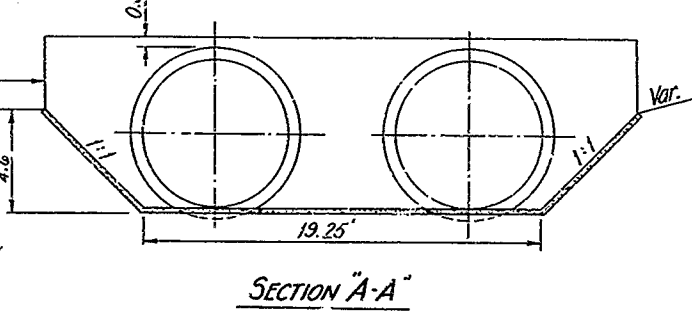
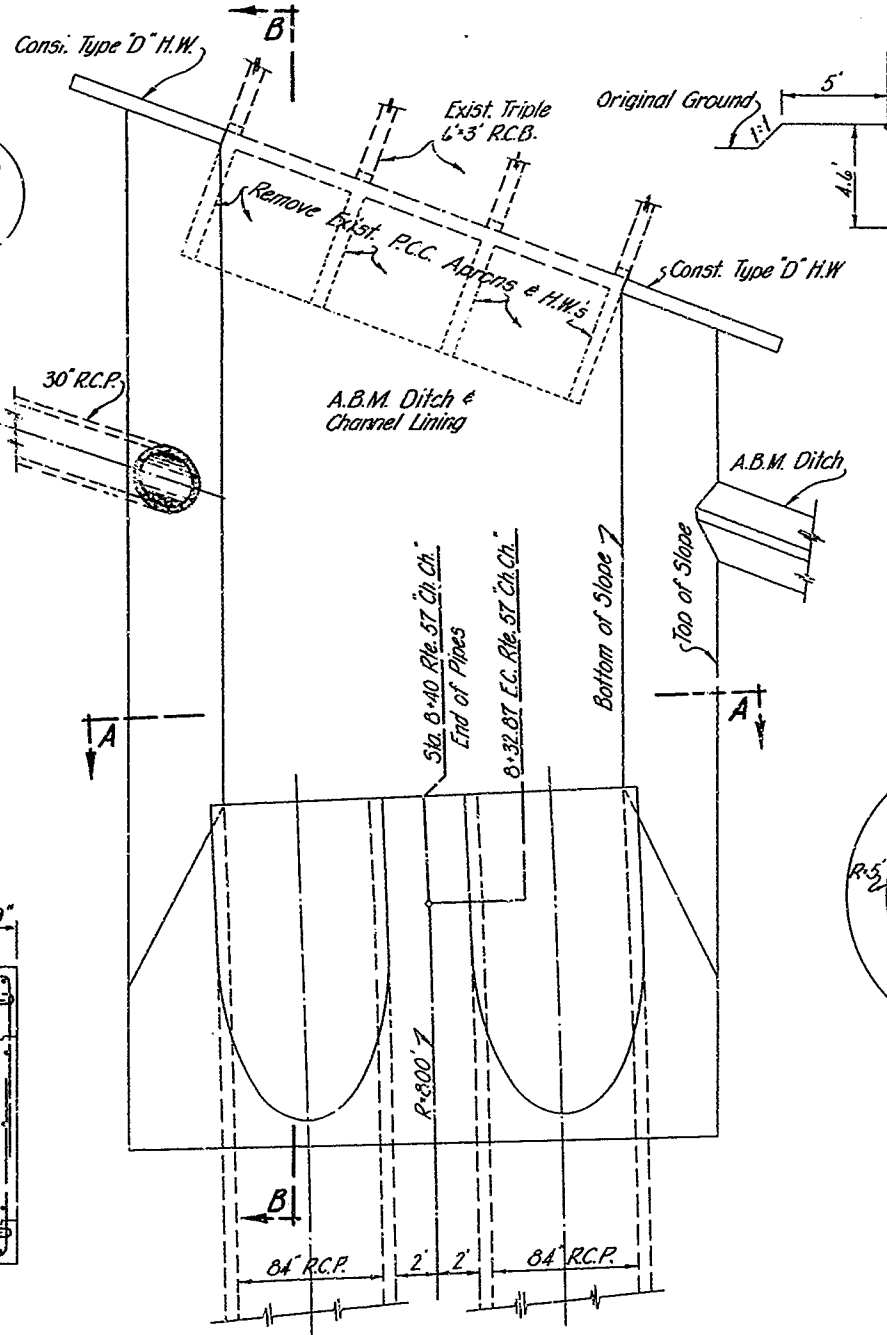
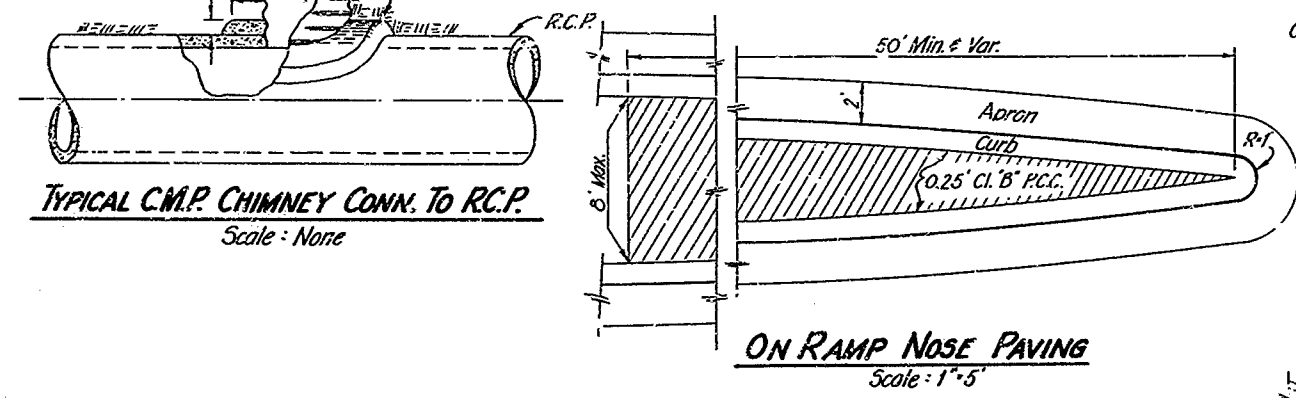
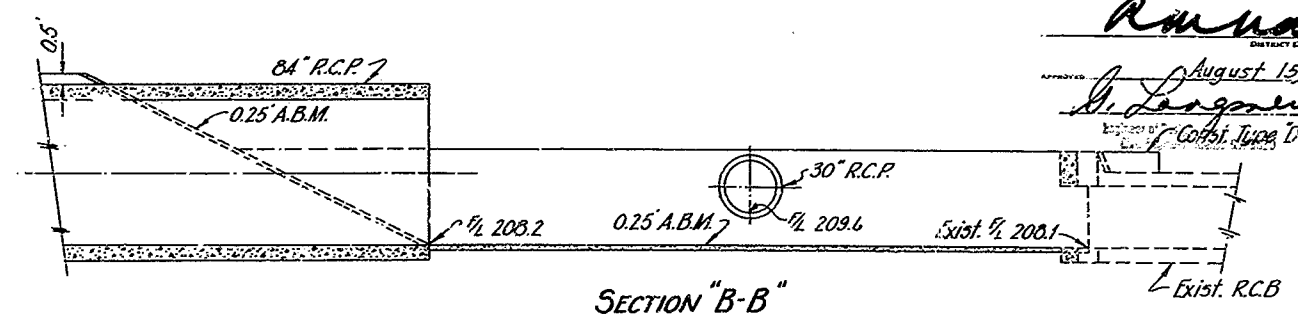
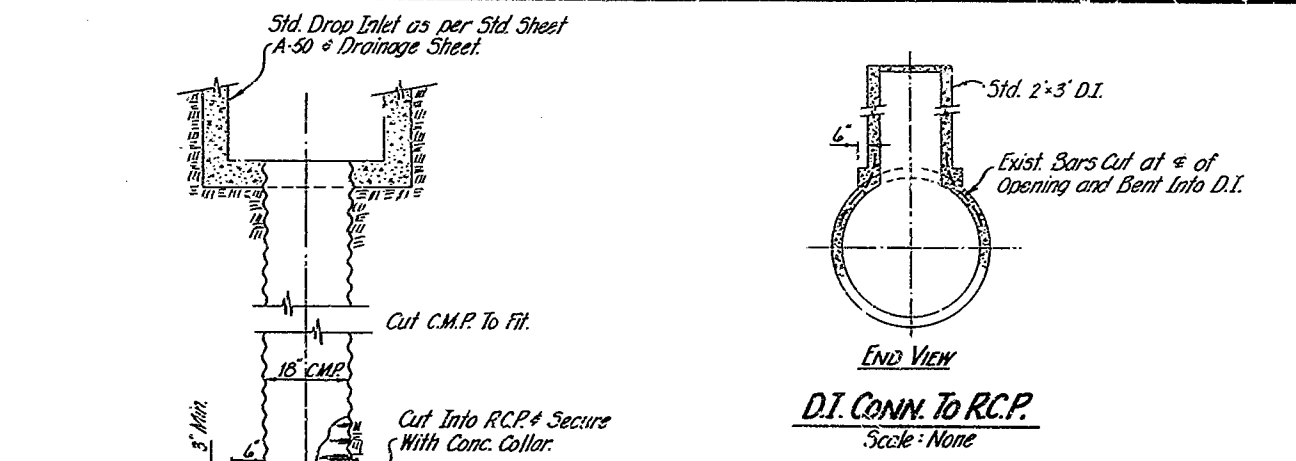
61-5V13C11
CONSTRUCTION DETAILS
 Station 67 to Station 80
 Scale: 1"=50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Ryan	2/60	<i>[Signature]</i>	7/60	R. A. [Signature]	7/60

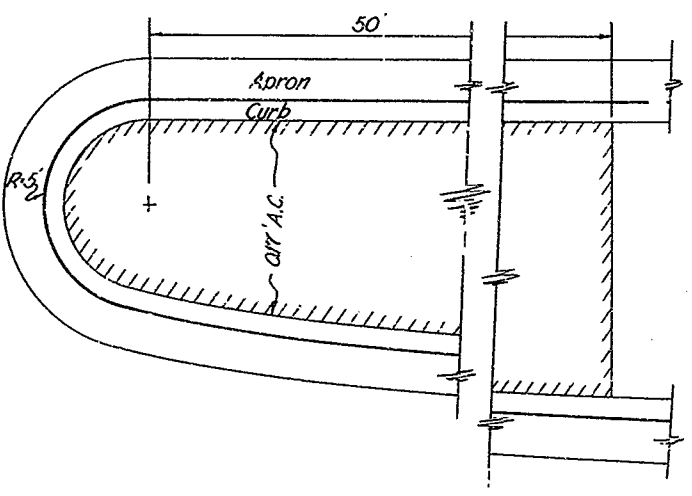
x 54

54

REVISED SHEET 61-5V13C11



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536



61-5V13C11
MISCELLANEOUS DETAILS
 Scale: As Shown

PROJECT ENG. NEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dreyden	2/60	[Signature]	7/60	R. G. [Signature]	12/60

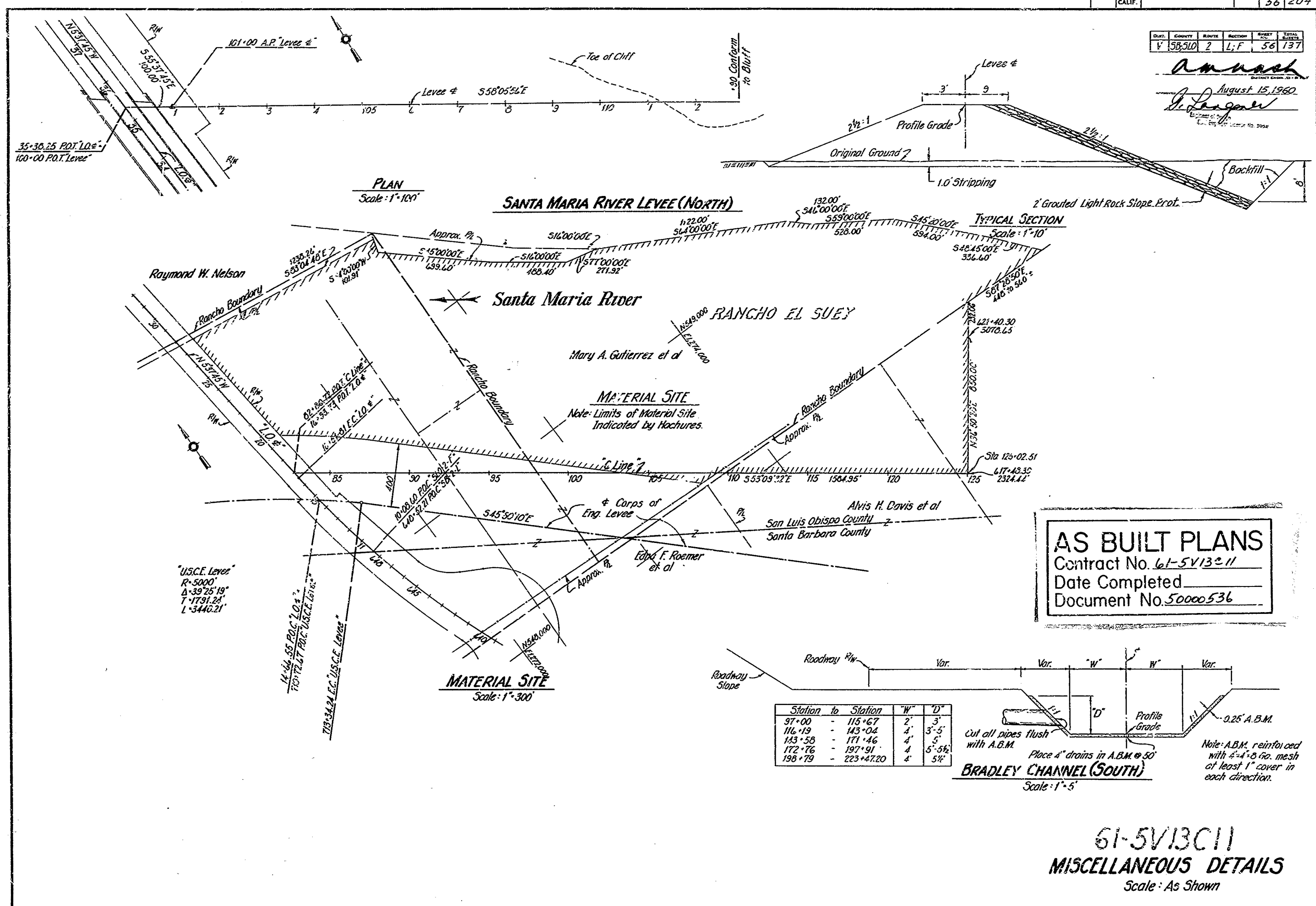
55

55

APPROVED BY [Signature] 12/60

DATE	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.				56	204

Date: 5/8/50
 County: 2
 Route: L.F.
 Section: 56
 Total: 137
 August 15, 1960
 J. E. Dwyer
 Project Engineer



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

Station to	Station	W	D
97+00	115+67	2'	3"
116+19	143+04	4'	3-5"
143+58	171+46	4'	5"
172+76	197+91	4'	5-5 1/2"
198+79	223+47.20	4'	5 1/2"

Cut all pipes flush with A.B.M.
 Place 4" drains in A.B.M. @ 50'
BRADLEY CHANNEL (SOUTH)
 Scale: 1"=5'
 Note: A.B.M. reinforced with 4"x4"x6 ga. mesh at least 1" cover in each direction.

61-5V13C11
MISCELLANEOUS DETAILS
 Scale: As Shown

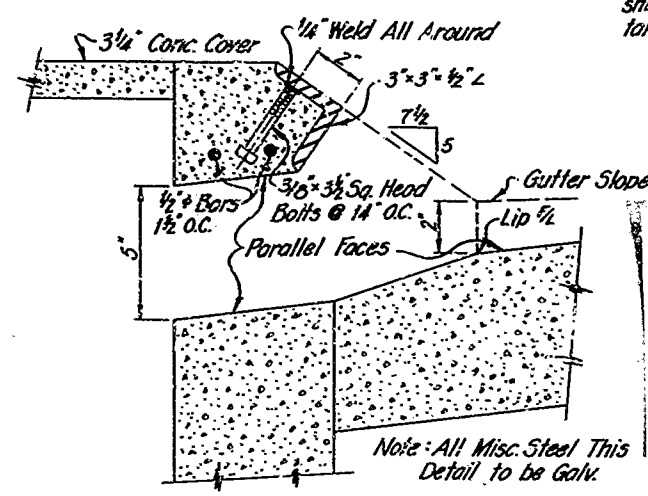
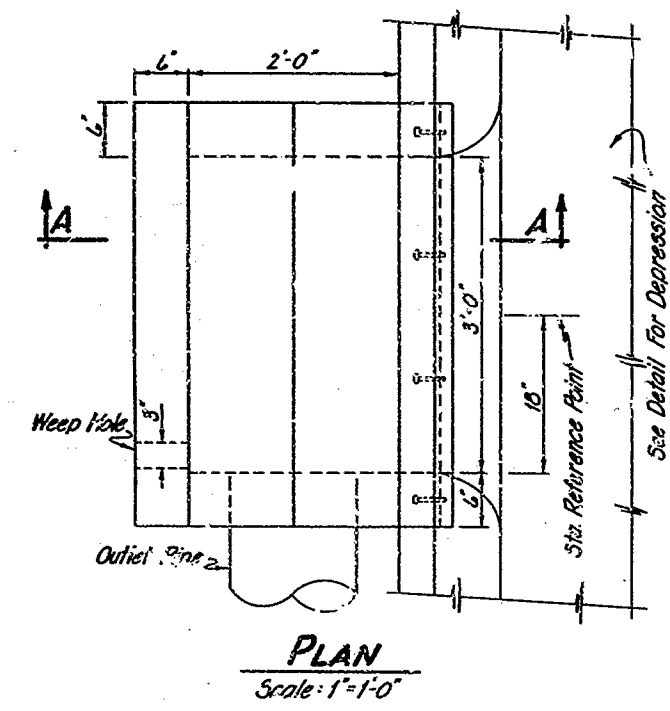
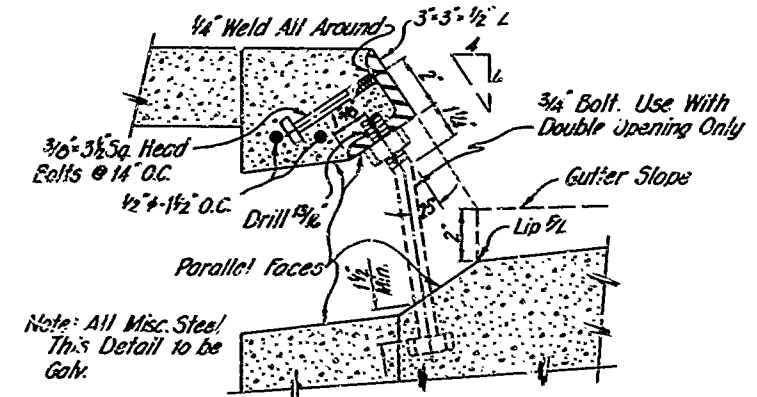
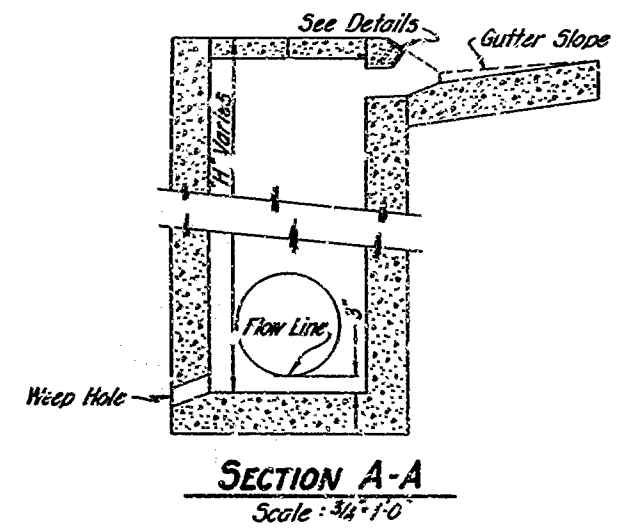
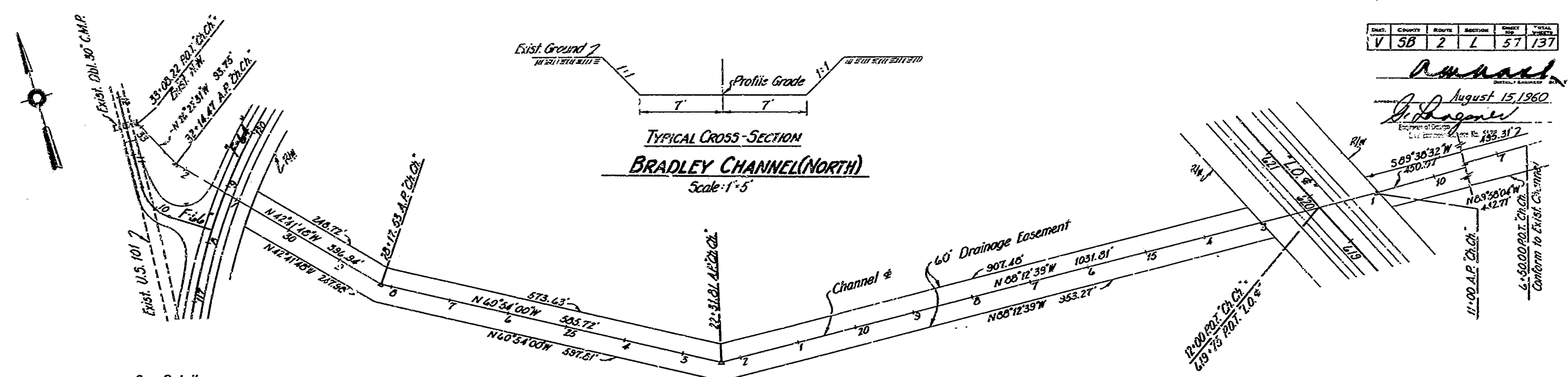
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	[Signature]	7/60

56

FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	SHEET NO.	TOTAL SHEETS
V 5B	2	L	57	137

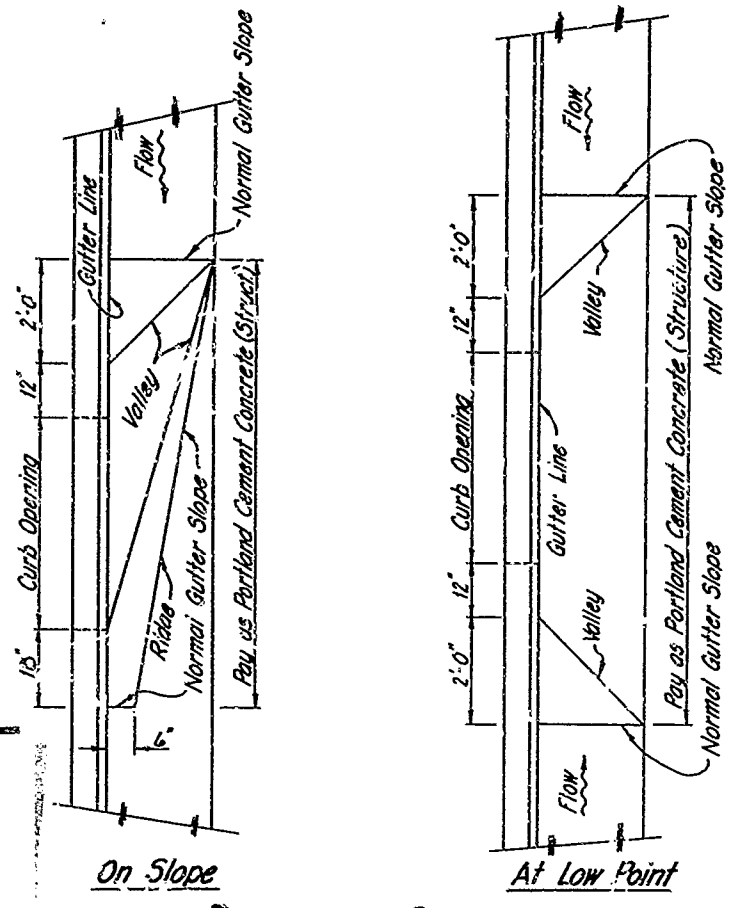
DATE	BY	REVISION
V 5B	2	L

August 15, 1960
[Signature]



Note: For additional details & reinforcing, see 'Drop Inlet' details on standard structure sheet A-50. Reinforcing to be taken from standard D.I.

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

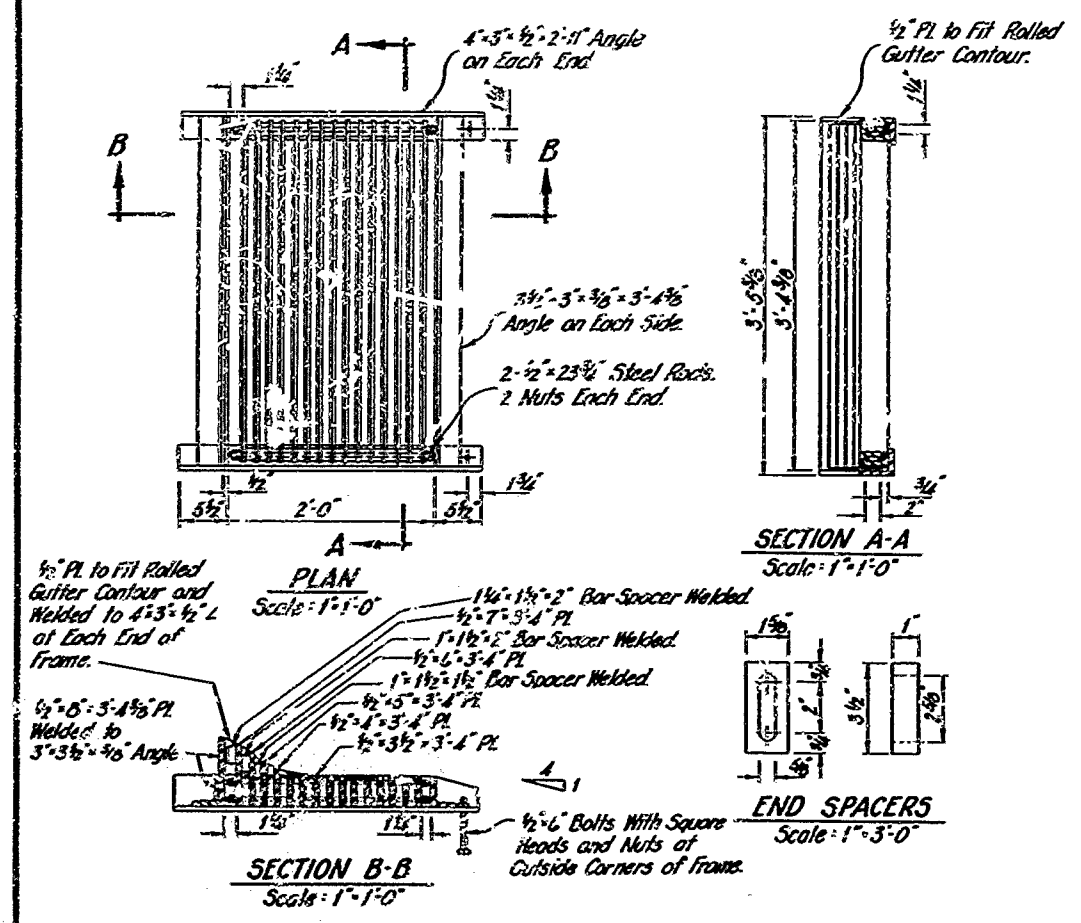


61-5V13C11

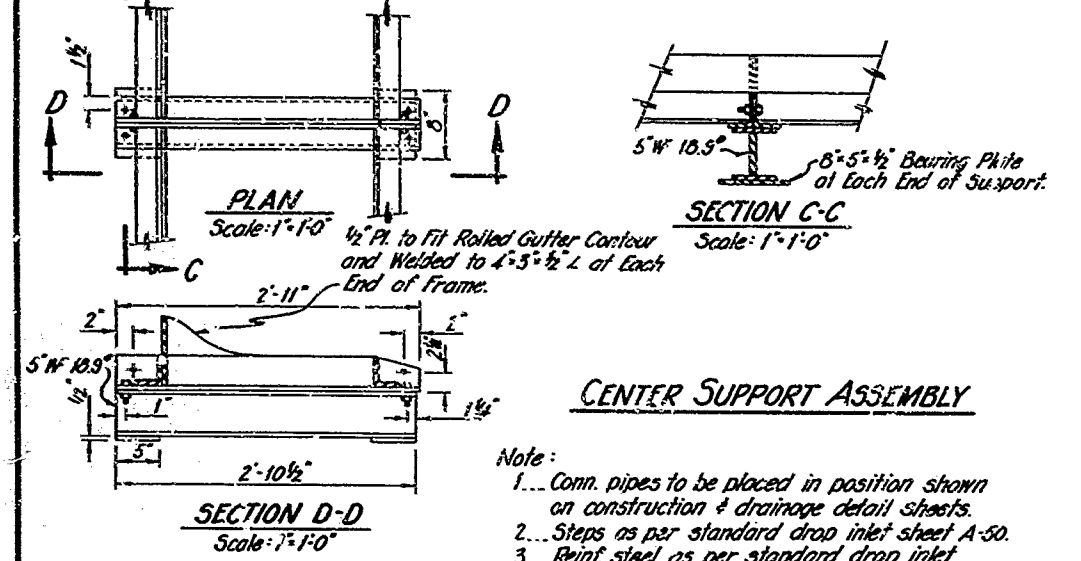
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
A. E. Dwyer	2/60	[Signature]	7/60	[Signature]	7/60

Dist.	County	Route	Milepost	Sheet	Total Sheets
V	156	310	2	58	137

Amual
 August 15, 1960
Protopopov
 Engineer of Public Works



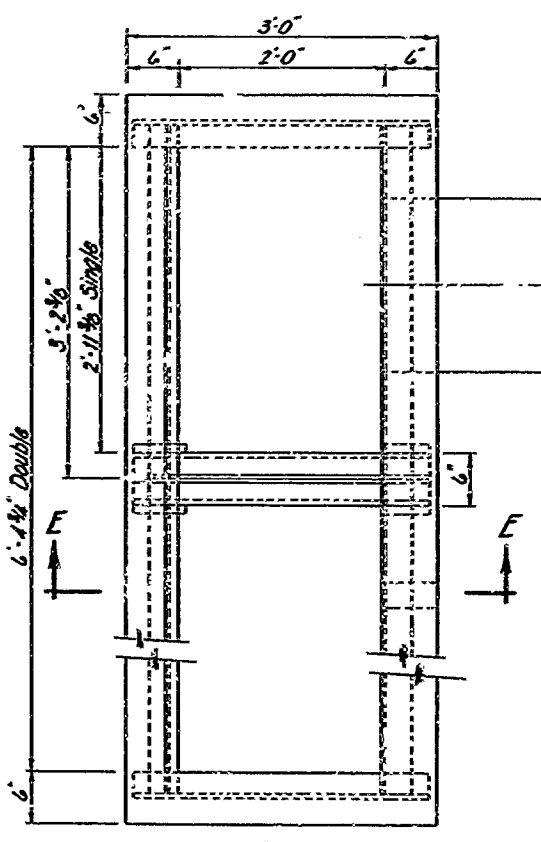
GRATE & FRAME ASSEMBLY
 Scale: 1"=1'-0"



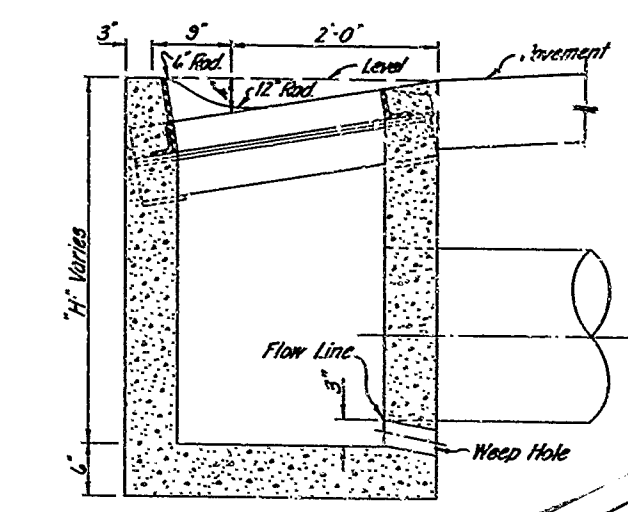
CENTER SUPPORT ASSEMBLY
 Scale: 1"=1'-0"

- Note:
- Center support assembly shall be used when two or more gratings are specified.
 - All metal parts are to be galvanized.
 - Frame may be welded, bolted or riveted.
 - Bolts (not rivets or welds) shall be used to join two or more frames together and to the "H" beam.
 - All parts shall be of structural grade steel, except end spacers which can be cast iron or steel.
 - All bolts used in center support shall be 1/2" diam.

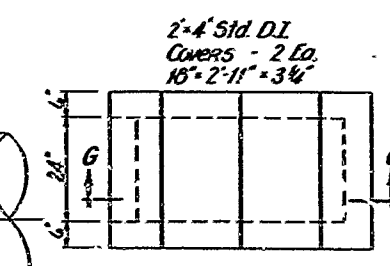
TYPE 'E' DROP INLET
 (Single or Double)



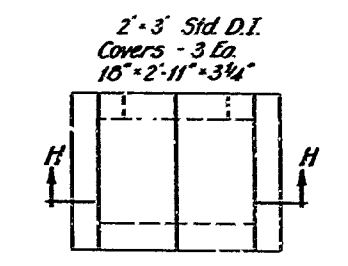
PLAN
 Scale: 1"=1'-0"



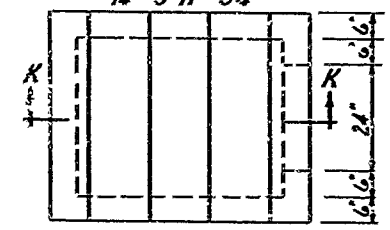
SECTION E-E
 Scale: 1"=1'-0"



SECTION G-G



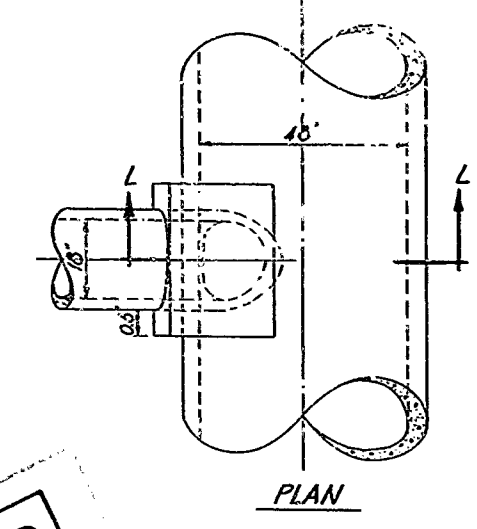
SECTION H-H



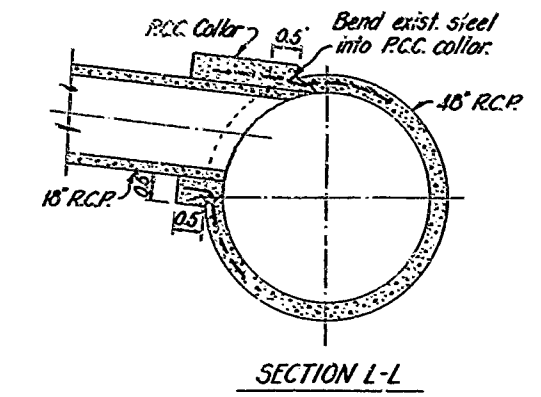
SECTION K-K

Use std. 2'-3" D.I. except as noted on plans.
 Pipe openings not shown.
 See std. sh. A-50 for reinf. steel.

STANDARD DROP INLETS
 (SHOWING WINDINGS & LIDS)
 Scale: 1"=2'-0"



PLAN



SECTION L-L

CONNECTION OF 18" R.C.P. TO 48" R.C.P.
 STATION 62+75 TO 63+95 L.O. *
 Scale: 1"=2'

MISCELLANEOUS DETAILS
 Scale: As Shown

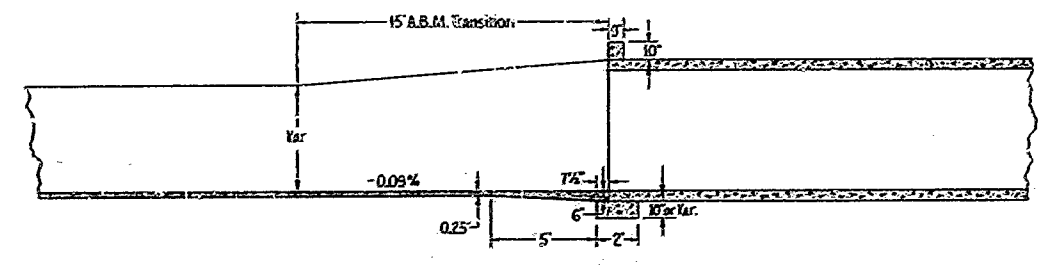
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11

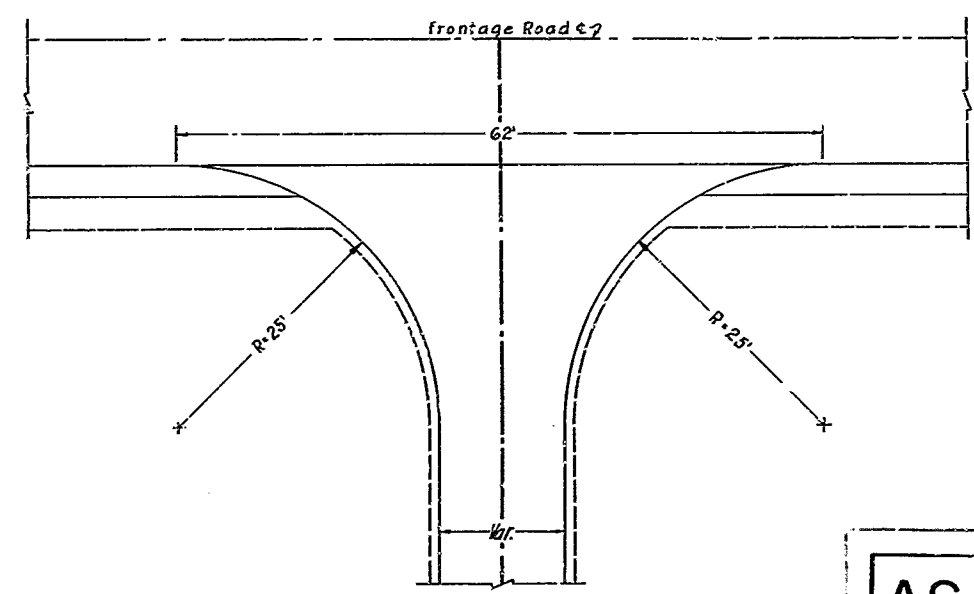
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dryden	2/1/60	John G. ...	7/6/60			7/6/60

58

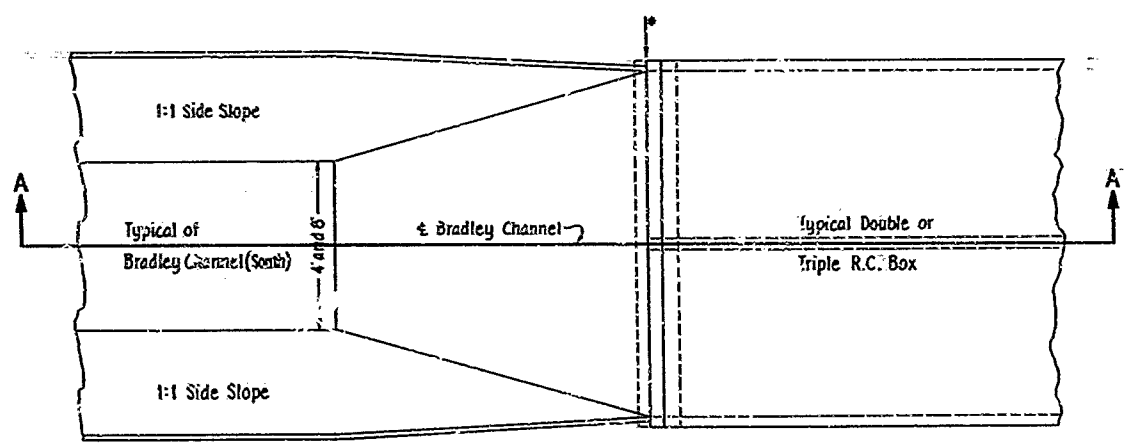
Am...
 August 15 1960
J. Langley
 Surveyor General
 State of California



SECTION A-A



PRIVATE ROAD CONNECTIONS
PR 1 to 10
Scale 1"=10'-0"



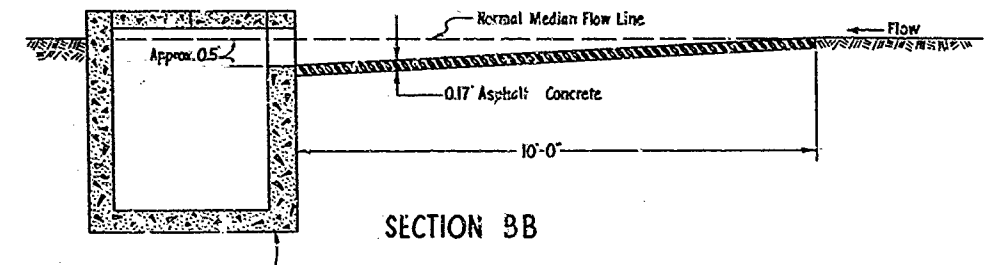
PLAN VIEW
TYPICAL A.B.M. TRANSITION
BRADLEY CHANNEL (SOUTH)
Scale 1"=5'-0"

* Stations at which transitions occur.

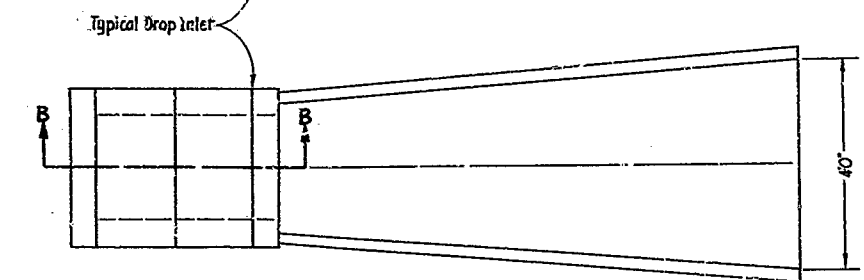
a. 116 + 19	b. 119 + 05	c. 130 + 82	d. 143 + 58	e. 172 + 76	f. 171 + 46
g. 198 + 79	h. 197 + 91				

DRAINAGE STRUCTURES OCCURRING AT ABOVE TRANSITIONS

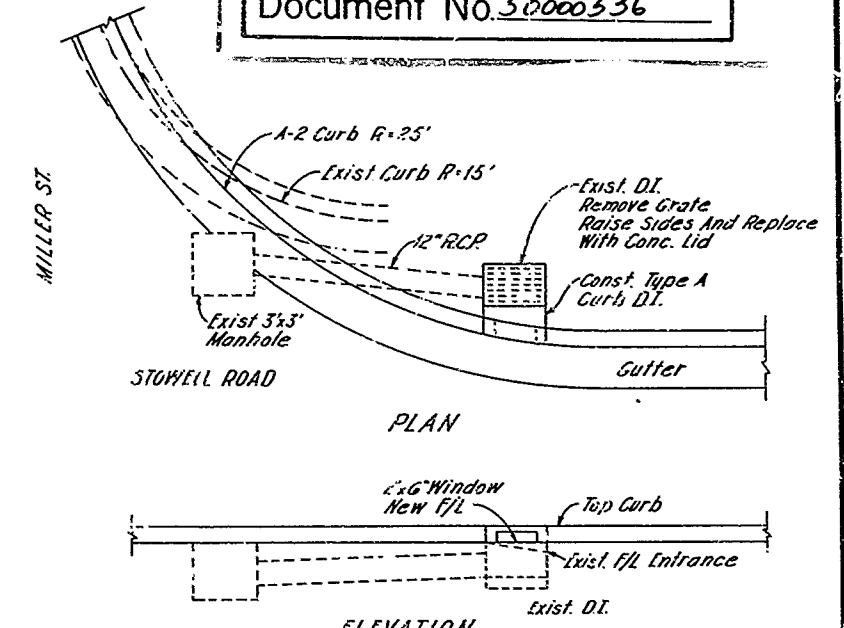
Station	Item
a. 843 + 70 "F-36"	Const. 8' x 3.5' x 52" R.C.B.
b. 847 + 11 "F-36" 52" RI.	Const. 8' x 4' x 17.5" R.C.B.
c. 858 + 08 "F-36" 52" RI.	Const. 8' x 4' x 17.5" R.C.B.
d. 15 + 70.16 Stowell	Const. 8' x 5' x 54" R.C.B.
e. 497 + 05 L.O.A. 183' Rt.	Const. Triple 4' x 5' Spec. III x 130" R.C.B.
f. 12 + 02.06 Miller St.	Const. 8' x 6' x 48" R.C.B.



SECTION 9B



PLAN VIEW
A.C. APRONS FOR MEDIAN D.I.s
Scale 1"=2'-0"



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

DROP INLET
 Sta. 120 + 34.5 to well Rd.
 Scale: 1"=5'

61-5V13C11 MISCELLANEOUS DETAILS
 Scale: As Shown

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dryden	7/60	J. Langley	7/60	J. Langley	7/60

59

DRAINAGE STRUCTURES

• Payment included in Class-3 Contract.
 (Minor Structures) See Special Provisions
 • Final Qty Quantity - See Special Provisions

DATE 5/58 REVISED 2 L 60 137

Amash
 August 15, 1960
R. Ferguson

STATION/HS	LINE	DESCRIPTION	C.M.P.			R.C.P.						Structures		Ditch Excav. CY	Close to E.L. CY	Class 2** R.C.P. Str. CY	Bar Steel Lbs	Pipe Iron U. Steel Lbs	If Gate Ea	Standard Drop Inlet		R.C.P. Paving S.Y.	Culvert Markers Ea.		
			12" x 16 60 L.F.	18" x 16 60 L.F.	24" x 14 60 L.F.	18" III L.F.	24" III L.F.	30" III L.F.	36" III L.F.	48" III L.F.	64" III L.F.	Excav. CY	Backfill CY							No.	Size			Ht.	
77+32	F-16	Place 36" x 48" R.C.P. Ditch Outlet Const. Std. H.W. Rr.						44					18.7	16.8	3.0		195					2			
277+30	Rt Lane 4	Remove H.Wall on Exist. 36" x 100" R.C.P. Const. Std. 2' x 3' D.I. 30' Rr. of Rr. Lane 4 Extend Rr. of D.I. with 36" x 76" R.C.P. Skew 35° Rr. Const. Std. H.W. Rr.								76			26.8	32.2			091		20	1	20' x 10'	4.5	2		
83+27	F-16	Place 24" x 48" R.C.P. Ditch Inlet Const. Std. H.W. Rr.						48					18.1	12.2	0.5								2		
282+74	Rt Lane 4	Place 24" x 228" R.C.P. Skew 45° Rr. Ditch Inlet Attach R.C.P. to Exist. D.I. Med. Const. Std. 2' x 3' D.I. Rr. Const. Std. H.W. Rr.								228			134.2	92.9	0.5	0.15							3	1	
288+10	Lt Lane 4	Const. Std. 2' x 3' D.I. Lt. on Exist. 24" x 70" C.M.P. Extend Lt. with 24" x 56" R.C.P. Remove H.W. on Exist. C.M.P. Rr. Const. P.C.C. Collar Rr. Extend Rr. with 24" x 24" R.C.P. Const. Std. 2' x 3' D.I. Med. Place 18" x 96" R.C.P. Rr. Const. Std. 2' x 3' D.I. Rr.								56			25.3	16.3			141		24	1	20' x 09'	5.5	4.5	1	
89+14	R-10	Place 18" x 72" R.C.P. Skew 15° 30' Rr. Ditch Outlet Const. Std. 2' x 3' D.I. Rr.								72			41.5	34.1	3.0								2		
195+00	F-17	Place 24" x 80" R.C.P. Skew 42° Rr. Const. Std. H.W. Rr.								80			35.8	23.0									2		
296+43	Rt Lane 4	Place 18" x 136" R.C.P. Skew 22° Lt. Const. Std. 2' x 3' D.I. Med. Const. Std. 2' x 3' D.I. 28' Rr. Place 18" x 12" C.M.P. Chimney 28' Rr. Const. Std. P.C.C. Collar 28' Rr. Const. Std. 2' x 3' D.I. 86' Rr.								136			34.8	31.4			102		11	1	20' x 09'	3.3	4.5	1	1
197+44	F-18	Place 24" x 160" R.C.P. Skew 42° Lt. Connect to D.I. 66' Rr. 296+43 Const. Std. 3' x 4' D.I. 125' Rr.								160			90.4	64.1			152		67	2	20' x 10'	4.3		2	1
299+05	Rt Lane 4	Place 30" x 336" R.C.P. Skew 37° Rr. Connect to D.I. Rr. at 197+44 F-18 Const. Std. 3' x 4' D.I. Lt.								336			299.0	218.2											
60+86	R-13	Place 30" x 76" R.C.P. Skew 11° 30' Rr. Connect to D.I. Rr. at 299+05 Rt. Lane 4								76			32.1	26.7										2	
200+80	F-18	Place 24" x 164" R.C.P. Skew 36° Lt. Connect to D.I. Rr. at 296+05 Rt. Lane 4 Const. Std. 2' x 3' D.I. Lt.								164			75.3	48.8										1	
102+05	R-12	Remove Exist. H.Wall Const. Std. P.C.C. Collar Extend Rr. with 30" x 52" R.C.P. Const. Std. H.Wall Rr. Remove Exist. E. Wall Const. Std. P.C.C. Collar Extend Lt. with 30" x 40" R.C.P. Const. Std. E. Wall Lt.								52			20.5	17.2			152								
										40			15.8	13.2			152								

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	ISSUED ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	2/60	J. E. Dwyer	2/60	A. G. Ferguson	2/60

60

60

DRAINAGE STRUCTURES

* Payment included in Class A Concrete
 (Minor Structures) - ~~See Specifications~~
 * Total Qty Quantity ~~See Specifications~~

Amnash
 August 15, 1960
G. Rogan
 SUPERVISOR

STATIONING	LINE	DESCRIPTION	C.M.P.			R.C.C.								Structure		Niche Escav. C.Y.	Class A P.C.C. C.Y.	Class II P.C.C. Str. C.Y.	Bar Rein. Sheet Lbs.	Misc. Iron & Steel Lbs.	F. Gate type Ea	Standard Drop Inlet		Paving S.Y.	Plain Ea	Refrined Ea.				
			12-15 6a L.F.	16-16 3 L.F.	17-14 6a L.F.	18" III L.F.	21" III L.F.	24" III L.F.	30" III L.F.	36" III L.F.	48" III L.F.	84" III L.F.	Excavation C.Y.	Backfill C.Y.	No							Size	H Fr.							
104+60	F-16	Place 24"x18" BCP Const. 576 2"x3" DI. Holes																												
110+55	L.D.E.	Place 24"x18" BCP Const. 576 2"x3" DI. Holes Place 18"x6" C.M.P. Chimney Const. P.C.C. Collar Const. 576 H.H. EX.																												
115+15	L.D.E.	Place 24"x18" BCP 576 2"x3" DI. Holes Const. 576 2"x3" DI. Holes Place 18"x6" C.M.P. Chimney Const. P.C.C. Collar Const. 576 H.H. EX.																												
115+70	L.D.E.	Place 24"x18" BCP Const. 576 2"x3" DI. Holes Const. 576 2"x3" DI. Holes - One Side Opening, One Side Opening																												
120+10	L.D.E.	Place 24"x18" BCP 576 2"x3" DI. Holes Const. 576 2"x3" DI. Holes Place 18"x6" C.M.P. Chimney Const. P.C.C. Collar Const. 576 H.H. EX.																												
125+40	L.D.E.	Place 18"x18" BCP Ditch Outlet Const. 576 2"x3" DI. Holes																												
131+10	L.D.E.	Place 24"x18" BCP 12" Ditch Outlet Const. 576 2"x3" DI. Holes Const. 576 S.W. EX.																												
135+55	L.D.E.	Place 24"x18" BCP 576 2"x3" DI. Holes Const. 576 2"x3" DI. Holes Place 18"x12" C.M.P. Chimney Const. P.C.C. Collar Const. 576 H.H. EX.																												
135+55	BRANCH DITCH	Place 24"x18" C.M.P. Ditch Inlet & Outlet Const. 576 H.H. EX.																												
139+10	L.D.E.	Place 18"x18" BCP LI Const. 576 2"x3" DI. Holes																												
139+40	L.D.E.	Place 18"x18" BCP LI Const. 576 2"x3" DI. Holes																												
139+70	L.D.E.	Place 18"x18" BCP LI Const. 576 2"x3" DI. Holes																												
139+100	L.D.E.	Place 24"x18" BCP Const. 576 2"x3" DI. Holes Const. 576 18"x12" C.M.P. EX. Length = 177'																												
141+35	F-34	Place 24"x18" BCP Const. 576 2"x3" DI. Holes																												
146+00	L.D.E.	Place 18"x18" BCP LI Const. 576 2"x3" DI. Holes																												

AS BUILT PLANS
 Contract No. **61-5V13C11**
 Date Completed
 Document No. **50000536**

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	John Smith	3/60	Cal. G. Lymbert	J. E. Dwyer	7/60

STATE CALIF. FEDERAL PROJECT NO. 62 204

DRAINAGE STRUCTURES

Revised included in Class A Concrete
(Minor Structures) -
Total Qty. Quantity

Date	Quantity	Notes	Sheet	Total
1	58	2	L	62/137

August 15, 1960
G. Loggan

STATIONING	L.S.M.	DESCRIPTION	CH.P.				R.C.P.								Structure Elevation	Ditch Elevation	Class A R.C.P. C.Y.	Class B R.C.P. C.Y.	Bar Rein. Steel Lbs.	Misc. Man. & Steel Lbs.	In. Pipe	Standard Drop Inlet			A.O.S.D. Conduit Markers						
			12-16	18-16	24-16	30-16	18" L.F.	21" L.F.	24" L.F.	30" L.F.	36" L.F.	40" L.F.	48" L.F.	Excavation C.Y.								Backfill C.Y.	Excavation C.Y.	No.	Size	Depth	Proving Size	Proving Depth			
410+75	L.O.E	Place 18"x180" R.C.P. Const. Std. 2'x3' D.I. Lt. Const. Std. 2'x3' D.I. Rt. Const. Std. 3'x4' D.I. Med.				160								74.4	56.9									0.92	11	2	20x09	3.0	4.5		2
418+75-05+50	L.O.E	Place 24"x472' R.C.P. Along Med.					472							223.7	144.0									0.92	11	2	20x09	3.0	4.5		
415+50	L.O.E	Const. Std. 2'x3' D.I. Med.																					0.95	52	1	20x09	3.4	4.5		1	
415+50-05+50	L.O.E	Place 24"x396' R.C.P. Along Med.					396							187.9	121.0																
419+50	L.O.E	Place 18"x56' R.C.P. Rt. Const. Std. 3'x4' D.I. Med. Const. Std. 2'x3' D.I. Rt.				56								22.2	16.8									1.39	17	1	20x09	3.4	4.5		1
419+50-05+50	L.O.E	Place 24"x384' R.C.P. Along Med.					384							193.0	128.5									0.92	11	2	20x09	3.0	4.5		
423+35	L.O.E	Place 18"x104' R.C.P. Lt. Skew 52' Lt. Place 24"x132' R.C.P. Rt. Skew 52' Lt. Const. Std. 3'x4' D.I. Med. Const. Std. 2'x3' D.I. Lt.				104				132				52.2	42.6									1.26	17	1	20x09	3.4	4.5		2
430+00	L.O.E	Place 18"x80' R.C.P. Rt. Ditch Outlet Const. Std. 2'x3' D.I. Med.				80								25.5	17.5	2								0.95	11	1	20x09	3.0	4.5		1
436+00	L.O.E	Place 18"x60' R.C.P. Rt. Ditch Outlet Const. Std. 2'x3' D.I. Med.				60								25.2	17.5	2								0.95	11	1	20x09	3.0	4.5		1
442+00	L.O.E	Place 18"x80' R.C.P. Rt. Ditch Outlet Const. Std. 2'x3' D.I. Med.				80								25.5	17.8	2								0.95	11	1	20x09	3.0	4.5		1
843+78	F-36	Const. Std. 8'x35'x52' R.C. Box Skew 37' 11" Lt.												128.4	15.3		32.11		5850												2
445+00	L.O.E	Place 18"x152' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.				152								47.6	33.2									0.95	11	1	20x09	3.0	4.5		2
454+00	L.O.E	Place 18"x152' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.				152								49.6	34.6									0.95	11	1	20x09	3.0	4.5		2
459+00	L.O.E	Place 24"x244' R.C.P. Ditch Inlet Const. Std. H.W. Lt. Const. Std. 2'x3' D.I. Med. Const. Std. 2'x3' D.I. Rt.				244								137.5	98.4	4								1.20	27	1	20x09	6.2	4.5		2
162+50	R-30	Place 12"x16' C.M.P. Lt. Ditch Outlet Const. Std. Type "E" Curb D.I.				16								2.4	1.9									0.85	575	1	1		3.0		1
261+07	R-31	Place 12"x12' C.M.P. Lt. Const. Std. Type "E" Curb D.I.				12								2.0	1.5									0.72	575	1	1		2.4		1
464+00	L.O.E	Place 18"x80' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.				80								14.8	17.3									0.95	11	1	20x09	3.0	4.5		1
264+46	R-31	Place 18"x18' R.C.P. Ditch Outlet Const. Std. 2'x3' D.I. Rt.				18				52				18.0	13.0	2								1.36	24	2	20x09	5.0	4.5		1
847+11	F-36	Const. Std. 8'x4'x17.5' R.C. Box 52' Rt.												42.0	8.0																2.0
858+80	F-36	Const. Std. 8'x4'x17.5' R.C. Box 52' Rt.												42.0	8.0																2.0

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
G. E. Hayden	2/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	<i>[Signature]</i>	7/60

DRAINAGE STRUCTURES

* Payment included in Class A Concrete
(Minor Structures) - ~~See Specifications~~
** Total Pay Quantity - ~~See Specifications~~

63

DIST.	COUNTY	ROUTE	SECTION	SHEET	TOTAL SHEETS
V	58	2	L	63	137

Amash
August 15, 1960
D. Longmuir

STATION	LINE	DESCRIPTION	C.M.P.				R.C.P.				Structure Excavation C.Y.	Backfill C.Y.	Ditch Excav. C.Y.	Class 'A' Conc. C.Y.	Class 'B' Conc. C.Y.	Rein. Steel Lbs.	Pipe Man. & Stand Lbs.	Inlets	Standard Drop Inlet No.	Standard Drop Inlet Size	H. Ft.	Paving S.Y.	Curb Markers		
			18" L.F.	24" L.F.	30" L.F.	36" L.F.	42" L.F.	48" L.F.	54" L.F.	60" L.F.													18" Dia.	24" Dia.	
458+95	L.O.4	Place 24" x 168" R.C.P. Const. Sid. 2' x 3" D.I. Med. Const. Sid. Type "E" Curb D.I. Lt. Const. Sid. R.W. Lt. Const. Sid. E.W. Rt.				168					73.9	47.6								20' x 0'9"	5.2	4.5	3		
870+89	F-35	Place 24" x 120" R.C.P. Const. Sid. R.W. Lt.				120					94.7	74.8												2	
15+78.16	Stowet	Const. Dn. 8' x 5' x 5' R.C. Box Skew 3' at 07' Lt.									314.0	64.0	68.75		912.5									2	
474+00	L.O.4	Place 18" x 80" R.C.P. Lt. Const. Sid. 2' x 3" D.I. Med.				80					24.8	7.3					11			20' x 0'9"	3.0	4.5	1	1	
774+18	F-35	Place 18" x 44" R.C.P. Const. Sid. R.W. Rt.				44					12.9	9.0												2	
576+41	R-33	Place 18" x 116" R.C.P. Skew 23" Lt. Ditch Inlet Const. Sid. R.W. Lt. Const. Sid. Type "E" Curb D.I. Lt. Const. Sid. 2' x 3" D.I. Med.				116					34.8	24.4	1.0											1	2
579+25	R-33	Place 12" x 16" C.M.P. Rt. Ditch Outlet Const. Sid. Type "E" Curb D.I.	14								1.8	1.5	6.0											1	
401+64	L.O.4	Place 21" x 236" R.C.P. Sleeve, Skew 0° 12' 39" Rt.					236				44.8	40.4												1	1
481+75	L.O.4	Place 18" x 88" R.C.P. Rt. Const. Sid. 2' x 3" D.I. Med.				88					28.3	19.8					11			20' x 0'9"	3.0	9.0	1	1	
488+00	L.O.4	Place 18" x 64" R.C.P. Rt. Const. Sid. 2' x 3" D.I. Med.				64					20.7	14.5					11			20' x 0'9"	3.0	4.5	1	1	
495+45	L.O.4	Place 24" x 272" R.C.P. Ditch Inlet and Outlet Const. Sid. "E" H.W. Lt. R+2.0					272				125.0	78.8	6.0											2	
497+05	1852+10.6	Const. Triple 6' x 4.5' Space - IV - 130" RCB									764.6	144.8	236.14		34200										
505+50	L.O.4	Place 18" x 64" R.C.P. Lt. Const. Sid. 2' x 3" D.I. Med.				64					21.4	14.9					11			20' x 0'9"	3.0	4.5	1	1	
508+25	L.O.4	Place 21" x 302" R.C.P. Sleeve, Skew 1° 59' 21" Lt.					302				615.0	573.2												2	
512+75	L.O.4	Place 18" x 80" R.C.P. Rt. Const. Sid. 2' x 3" D.I. Med.				80					26.3	18.4					11			20' x 0'9"	3.0	9.0	1	1	
15+88	R-41	Place 12" x 36" R.C.P. Const. Sid. "B-2" Curb Opening D.I. Lt.				36					9.9	6.9					63							2	
16+27	R-40	Place 18" x 44" R.C.P. Const. Sid. "B-2" Curb Opening D.I. Lt.				44					13.3	9.3					63							2	
22+85	R-40	Place 12" x 8" C.M.P. Const. Sid. Type "E" Curb D.I.				8					1.0	0.8					575							1	
22+60	R-41	Place 12" x 8" C.M.P. Const. Sid. Type "E" Curb D.I. Ditch Outlet				8					1.1	0.9					575							1	
12+02.08	Main St.	Const. Double 8' x 6' A-IV - 88" RCB									618.0	185.0	116.31		14800									2	
8+25	Main St.	Place 18" x 104" R.C.P. Ditch Inlet and Outlet				104					45.2	34.6	2.0											2	
120+34	Stowet	Const. Type "A" Curb D.I. Lt. Connect To And Raise Exist. DI.									1.7	1.0					50	50							

AS BUILT PLANS
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61-5V13C11
QUANTITY SUMMARY

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PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Drayden	2/60	<i>[Signature]</i>	7/60	A. L. Legumbe	7/60

Amast
August 15, 1960
J. L. Lagner

DRAINAGE STRUCTURES

• Payment included in Class "A" Concrete
(Minor Structures) - *As Shown*
• Item 712 Quantity *As Shown*

STATION/1/4	TYPE	DESCRIPTION	C.M.P.								R.C.P.								Structure	Paved Exposed	Class of Concrete	Class of Reinforcing Steel	Bar Size	Max. Clear.	In Gate	Standard Drop Inlet		A.C. Paving	Curbs			
			12"	15"	18"	24"	30"	36"	48"	60"	12"	15"	18"	24"	30"	36"	48"	60"								Feet	Size		Feet	Width	Height	
23+80	R-22	Place 12'x12' C.M.P. Ditch Outlet Const. Std. Type "E" Curb D.I.	12																0.85		575											
23+85	R-23	Place 18'x24' R.C.P. Ditch Outlet Const. Std. "B-2" Curb Opening D.I. Lt. Const. Std. Type "E" Curb F.L. Rt.								32							8.9	6.2	1.92		62		20'x09"									
529+58	L.O.E	Place 24'x280' R.C.P. Const. Std. 2'x3' D.I. Med. Const. Std. "B-2" Curb Opening D.I. Lt. Place 18'x40' C.M.P. Channel Med. Const. Std. P.C.C. Collar Place 18'x10' C.M.P. Channel Lt. Const. Std. P.C.C. Collar Const. Std. 1" H.W. Lt. W=14"												280				5.0	28.4	0.73		11		20'x09"								
31+46	R-43	Place 18'x32' R.C.P. Const. Std. "B-2" Curb Opening D.I. Lt.								32							9.9	6.9	1.95		62											
535+77	L.O.E	Place 21'x257' R.C.P. Sleeve, Skew 7'50" L/R												257				529.3	494.8													
536+00	L.O.E	Place 18'x60' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.												60				24.3	18.4	0.95		11		20'x09"								
542+00	L.O.E	Place 18'x20' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.												20				52.3	40.2	0.95		11		20'x09"								
548+00	L.O.E	Place 18'x80' R.C.P. Rt. Const. Std. 2'x3' D.I. Med.												80				25.7	17.9	0.95		11		20'x09"								
551+15	L.O.E	Place 21'x196' R.C.P. Sleeve Skew 21' L/R												196				82.0	55.4													
554+00	L.O.E	Place 18'x60' R.C.P. Lt. Const. Std. 2'x3' D.I. Med.												60				25.5	17.8	0.95		11		20'x09"								
560+00	L.O.E	Place 18'x80' R.C.P. Lt. Const. Std. 2'x3' D.I. Med.												80				25.2	17.5	0.95		11		20'x09"								
562+38	L.O.E	Place 21'x204' R.C.P. Sleeve, Skew 28' R/L												204				423.9	396.5													
566+00	L.O.E	Place 18'x60' R.C.P. Lt. Const. Std. 2'x3' D.I. Med.												60				25.3	17.7	0.95		11		20'x09"								
572+00	L.O.E	Place 18'x80' R.C.P. Lt. Const. Std. 2'x3' D.I. Med.												80				25.2	17.5	0.95		11		20'x09"								
73+00	R-53	Place 35'x48' C.M.P. Const. R.W. Lt. Const. Std. Type "E" Curb D.I. Rt.	48														104	78	0.91		575											
77+00	R-50	Place 24'x52' R.C.P. Const. Std. H.W. Rt.												52				26.6	14.4	1.20												
100+50	F-54	Place 35'x22' C.M.P. Const. Std. R.W. Rt.	22														4.7	3.5	0.91													
578+00	L.O.E	Place 18'x60' R.C.P. Lt. Ditch Outlet Const. Std. 2'x3' D.I. Med.												60				25.9	18.0	0.88		11		20'x09"								
24+00	Donovan	Place 24'x60' R.C.P. Const. Std. H.W. Rt.												60				31.0	18.3	1.20												

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AS BUILT PLANS
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61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL REQUIRED BY	DATE
J. E. Snyder	2/60	<i>[Signature]</i>	2/60	<i>[Signature]</i>	2/60

64

D.P. No. STATE FEDERAL PROJECT NO. FISCAL YEAR SHEET NO. TOTAL SHEETS

CAUF. CALIF. 65 204

DRAINAGE STRUCTURES

• Payment included in class X Concrete (Minor Structures) - ~~Non-pavement Structures~~
 • Final Qty Quantity - ~~Development Structures~~

Sheet 65 of 137
 Date: August 15, 1960
 Signature: *[Handwritten Signature]*

STATIONING	LINE	DESCRIPTION	CMP			RCP								Structure		Ditch Excav. CY.	Class X P.C.C. CY.	Class X* P.C.C. or Concrete CY.	Bar Rein. Steel Lbs.	Misc. Iron & Steel Lbs.	Iv. Gate Type & No.	Standard Drop Inlet		A.C. Paving Sq. Yd.	Culvert Manholes Plain Ea.	Retitted Ea.	
			12-16 Cu. L.F.	18-16 Cu. L.F.	24-14 Cu. L.F.	18" III' L.F.	21" III' L.F.	24" III' L.F.	30" III' L.F.	36" III' L.F.	48" III' L.F.	84" III' L.F.	Excavation C.Y.	Backfill C.Y.	No.							Size	H. Ft.				
07+25	F-35	POUCE 18" x 18" RCP CONST. STK. HNK. EX.											57	43			0.91									2	
30+00	LOC	POUCE 24" x 14" RCP CONST. STK. HNK. EX. CONST. STK. 2" x 3" DI. MESH CONST. STK. TYPE 2" CURB DI.						156					970	428			1.20					1	20"x10"0"	40	4.5	1	2
15+50	R-53	POUCE 24" x 14" RCP CONST. STK. HNK. EX.						56					240	140			1.20									2	
07+00	F-35	POUCE 18" x 18" RCP CONST. STK. HNK. EX.											11	23			0.91									2	
50+00	LOC	POUCE 18" x 18" RCP EX. DITCH OUTLET CONST. STK. 2" x 3" DI. MESH						70					34.8	72	20		0.91				11	1	20"x10"0"	27	4.5	1	1
58+00	LOC	POUCE 24" x 14" RCP EX. CONST. STK. 2" x 3" DI. MESH CONST. STK. HNK. EX.						122					620	272			1.20					1	20"x10"0"	50	4.5	1	2
65+00	LOC	POUCE 18" x 18" RCP EX. CONST. STK. 2" x 3" DI. MESH						70					250	72			0.91				11	1	20"x10"0"	30	4.5		2
62+00	LOC	POUCE 18" x 18" RCP EX. CONST. STK. 2" x 3" DI. MESH						80					28.8	11			0.91				11	1	20"x10"0"	30	4.5	1	1
64+25	LOC	POUCE 18" x 18" RCP EX. SHOWN 40" DI. DITCH OUTLET CONST. STK. 2" x 3" DI. MESH						128					36.2	25.3	400		0.91				11	2	20"x10"0"	30	9.0	1	1
69+25	LOC	POUCE 24" x 14" RCP EX. DITCH INLET CONST. STK. 2" x 3" DI. MESH											380	320	1784		0.77				11	1	20"x10"0"	22	4.5	1	2
68+75	LOC	POUCE 18" x 18" RCP EX. CONST. STK. 2" x 3" DI. MESH						80					26.5	78			0.91				11	1	20"x10"0"	30	4.5	1	1
12+00	F-64	POUCE 18" x 18" RCP CONST. STK. HNK. EX.						60					18.7	18.7			0.91									2	
15+00	R-61	POUCE 24" x 14" RCP CONST. STK. HNK. EX.						92					14.8	72			1.21									1	1
68+40	LOC	POUCE 24" x 14" RCP DITCH INLET CONST. STK. 2" x 3" DI. MESH CONST. STK. TYPE 2" CURB DI. EX. CONST. STK. HNK. EX.						164					72.5	26.7	10		0.91				11	2	20"x10"0"	35	9.0	2	1
61+25	R-62	POUCE 18" x 18" RCP CONST. STK. 2" x 3" DI. MESH						84					14.5	28			1.36				20	2	20"x10"0"	50	9.0	1	1
64+00	LOC	POUCE 18" x 18" RCP EX. CONST. STK. 2" x 3" DI. MESH						80					274	18.7			0.91				11	1	20"x10"0"	30	4.5	2	
118+00	F-64	POUCE QUAD 30" x 18" RCP SHOWN 8" DI. EX. CONST. STK. HNK. EX. LENGTH = 226.8' CONST. STK. EX. LENGTH = 226.8'						252					102.2	26.5			1.35									1	1

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 5000536

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
G. E. Dwyer	2/60	[Signature]	7/60	APPROVED	G. E. Dwyer	7/60

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DRAINAGE STRUCTURES

* Payment included in Class 'A' Concrete
 (Minor Structures) - See Special Provisions
 ** Final Pay Quantity - See Special Provisions

Dist. County Route Section Sheet No. Total Sheets
 V 510 2 F 66 137

Amnash
 August 15, 1960
J. Long

STATIONING	LINE	DESCRIPTION	CMP			R.C.P.				Structure		Ditch Excav. CY	Class 'A' P.C.C. CY	Class 'A' P.C.C. Min. Sh. CY	Bar Rein. Steel Lbs.	Misc. Iron & Steel Lbs.	Gr. Pipe E	Standard Drop Inlet		A.C. Paving Sq. Yd.	Culvert Markers			
			18" III L.F.	24" III L.F.	30" III L.F.	36" III L.F.	48" III L.F.	Excavation C.Y.	Backfill C.Y.	No.	Size							H. Ft.	Plain Ea.		Retrified Ea.			
625+00	N Sidew	Remove Exist. E.W. and H.W. Extend Lt. with 18"x8" C.M.P. Const. Std. E.W. Extend Rt. with 18"x8" C.M.P. Ditch Inlet Const. Std. H.W.									1.1	0.8			0.91	*							2	
37+00	L.O. E.	Place 18"x116" R.C.P. Lt. Const. Std. 2'x3' D.I. Med.						72			23.1	16.1			0.92	*	11	2	2'0" x 0'9"	3.0	4.5		1	
48+00	L.O. E.	Place 18"x116" R.C.P. Lt. Const. Std. 2'x3' D.I. Med. Const. 2'x3' D.I. Lt.						116			50.3	39.4			0.95	*	11	1	2'0" x 0'9"	3.0	4.5		2	
52+28	L.O. E.	Place 30"x248" R.C.P. Const. Std. 2'x4' D.I. Rt. Const. 1" H.W. Rt. W=4.0						248			111.3	93.6			2.04	*	27	1	2'0" x 0'9"	7.0	4.5		2	
252+25	R-71	Place 30"x48" R.C.P. Const. Std. 2'x4' D.I. Rt.						48			19.8	16.6			1.23	*	20	2	2'0" x 0'9"	4.0			2	
5+80	Rte. 57 A	Place 30"x84" R.C.P., Ditch Inlet Const. Std. H.W. Rt.						84			37.2	36.9	1.0		1.52	*							2	
353+75	R-72	Const. H.W. Extension on Exist. Box												3.20		60							1	
54+19	L.O. E.	Place Double R.C.P. 04"x304" x 04"x308" radius = 600' Const. Type "B" H.W. Rt. Const. Std. 2'x3' D.I. 144" Rt. Place 18"x4" C.M.P. Chimney Const. Std. P.C.C. Collar Const. Std. 2'x3' D.I. 97" Rt. Place 18"x4" C.M.P. Chimney Const. Std. P.C.C. Collar Const. 2'x3' D.I. 104.5" Lt.							772		788.0	1256.0			19.53		1107							4
57+50	L.O. E.	Place 18"x116" R.C.P. Lt. Const. Std. 2'x3' D.I. Med. Const. Std. 2'x3' D.I. Lt.						116			57.0	46.0			0.95	*	11	1	2'0" x 0'9"	3.0	4.5		3	
11+71	Wineman	Place 24"x36" P.C.P. Const. Std. 2'x3' D.I. Rt.						36			16.4	10.5			1.03	*	17	1	2'0" x 0'9"	3.5	8.1		2	
62+75 - 63+95	L.O. E. 57Rt.	Place 18"x120" R.C.P. Const. P.C.C. Collar Const. "B-2" Curb Opening D.I.						120			39.6	27.9			0.85	*	47	1		3.0			1	

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
<i>J. E. Dwyer</i>	7/6	<i>J. E. Dwyer</i>	7/6	<i>J. E. Dwyer</i>	7/6

66

66

DRAINAGE STRUCTURES

• Payment included in Class A Contracts
(Minor Structures) - See Appendix A
• Final Pay Quantity - See Appendix B

67 137
SLO Z F 67 137

Amundson
August 15, 1960
G. R. ...

STATIONING	LINE	DESCRIPTION	C.M.P.			R.C.P.								Structure Excavation C.Y.	Structure Backfill C.Y.	Ditch Excav. C.Y.	Class A P.C.C. C.Y.	Class A P.C.C. Min Str C.Y.	Bar Rein. Steel Lbs.	Misc. Iron & Steel Lbs.	Fr. Gate Type E	Standard Drop Inlet		Paving SY.	Advert Markers						
			12-16 Ga. L.F.	18-16 Ga. L.F.	24-14 Ga. L.F.	18" III L.F.	21" III L.F.	24" III L.F.	30" III L.F.	36" III L.F.	48" III L.F.	84" III L.F.	No.									Size	H. Ft.		Plain Ea.	Refr. Ea.					
67+25	L.R.E.	Place 48" x 24" R.C.P. Const. 57x 2' x 2' DI. EX. Const. 57x 2' x 2' DI. EX. Place 18" x 12" C.M.P. CHIMNEY Const. 57x R.C.C. COLLAR Const. 57x 2' x 2' DI. EX. Place 18" x 8" C.M.P. CHIMNEY Const. 57x R.C.C. COLLAR												100.0	106.8								1	24" x 24"	20		4.5		2	2	
70+71	L.R.E.	Place 30" x 48" R.C.P. LI. Const. 57x 2' x 2' DI. EX. Const. 57x MIN. EX. Extend EXIST. DI. at Meet. Const. 57x 2' x 2' DI. LI. Place 13" x 4" CHIMNEY Const. 57x R.C.C. COLLAR												127	16.5									1	24" x 24"	20		1.5		2	
Total			70	246	32	4112	1811	5708	1280	120	232	772	10525.1	7522.3	196	621.06	172.36	65,331	8750			395.1	153	93							

OVERSIDE DRAINS, ENTRANCE TAPERS, SLIP JOINTS & PIPE ANCHORS

STATION	LINE	LOCATION Lt. Rt.	S.C.M.P. 16 GA. L.F.	ENTRANCE TAPERS EACH	SLIP JOINTS EACH	PIPE ANCHORS EACH	STATION	LINE	LOCATION Lt. Rt.	S.C.M.P. 16 GA. L.F.	ENTR. TAPERS EACH	SLIP JOINTS EACH	PIPE ANCHORS EACH											
181+50	F-17	x	10	1	1	1	503+00	MainLine	x	43	1	1	3											
63+75	F-16	x	4				503+00	x	x															
194+00	F-17	x	28		1	2	509+00	x	x	18			1											
203+20	F-18	x	34				509+00	x	x															
103+50	F-16	x	43			4	525+50	x	x	22														
89+15	R-10	x	2				529+60	x	x	2														
384+90	MainLine	x	22		1	1	553+00	x	x	16		1	1											
390+00	x	x	22				559+00	x	x															
490+00	x	x	16				565+00	x	x	24			2											
490+04	x	x					570+00	x	x	22			1											
436+00	x	x					10+70	x	x	24			2											
104+90	F-16	x	2				36+90	x	x	44			3											
436+04	MainLine	x	16		1	1	37+00	x	x	12			1											
442+00	x	x					752+45	R-71	x	10														
442+04	x	x					152+80	R-70	x	6														
448+00	x	x					552+70	F-74	x	20														
448+04	x	x					353+80	R-72	x	4														
452+00	x	x					11+70	Wing Rd.	x															
454+04	x	x	12																					
459+04	x	x	16																					
464+04	x	x																						
474+04	x	x																						
480+00	x	x																						
486+00	x	x	18																					
490+00	x	x	38			2																		
495+00	x	x	62			3																		
Total														888	44	38	54							

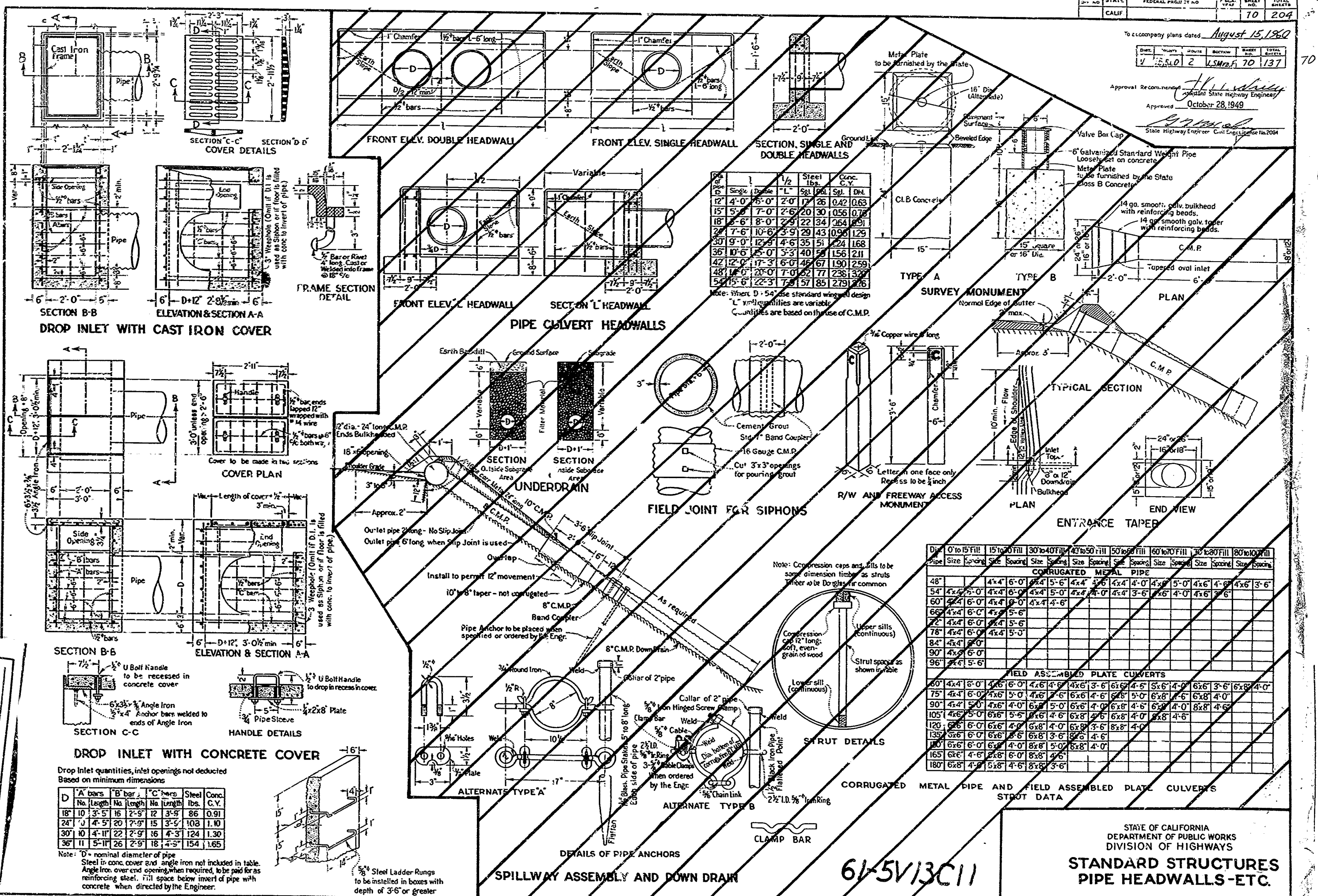
AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

61-5V13C11
QUANTITY SUMMARY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. ...	7/60	...	7/60	A. G. ...	7/60

To accompany plans dated August 15, 1950
 Date: 10/28/49
 V.S.S.D. 2 V.S.M.F. 70 137

Approval Recommended by *H. J. ...*
 State Highway Engineer
 Approved October 28, 1949
 State Highway Engineer - Civil Engineering No. 10204



Drop Inlet	1/2" Steel	Steel	Conc.
Size	Sp. Lbs.	Sp. Lbs.	C.Y.
12" 4'-0"	7-0"	2-0"	0.26
15" 5'-0"	7-0"	2-0"	0.42
18" 6'-0"	7-0"	2-0"	0.56
24" 7'-0"	10-6"	2-9"	0.93
30" 8'-0"	12-9"	4-6"	1.24
36" 10'-0"	15-0"	5-1"	1.56
42" 12'-0"	17-3"	6-0"	1.90
48" 14'-0"	20-0"	7-0"	2.26
54" 16'-0"	22-3"	7-8"	2.63
60" 18'-0"	25-0"	8-6"	3.00

Drop Inlet	15' to 20' Fill	20' to 30' Fill	30' to 40' Fill	40' to 50' Fill	50' to 60' Fill	60' to 80' Fill	80' to 100' Fill
Size	Length	Size	Length	Size	Length	Size	Length
48"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
54"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
60"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
66"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
72"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
78"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
84"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
90"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"
96"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"	4'-0"

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

Drop Inlet quantities, inlet openings not deducted
 Based on minimum dimensions

D	A' bars	B' bar	C' bars	Steel	Conc.
	No.	Length	No.	Length	lbs.
18"	10	3'-5"	16	2'-9"	86
24"	10	4'-5"	20	2'-9"	108
30"	10	4'-11"	22	2'-9"	124
36"	11	5'-11"	26	2'-9"	154

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
**STANDARD STRUCTURES
 PIPE HEADWALLS-ETC.**

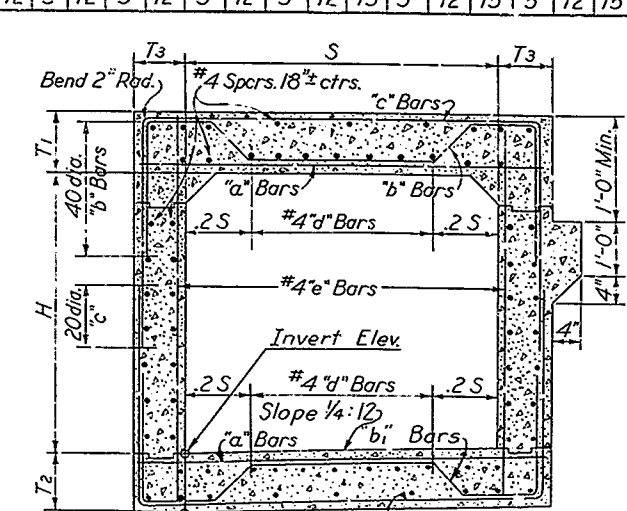
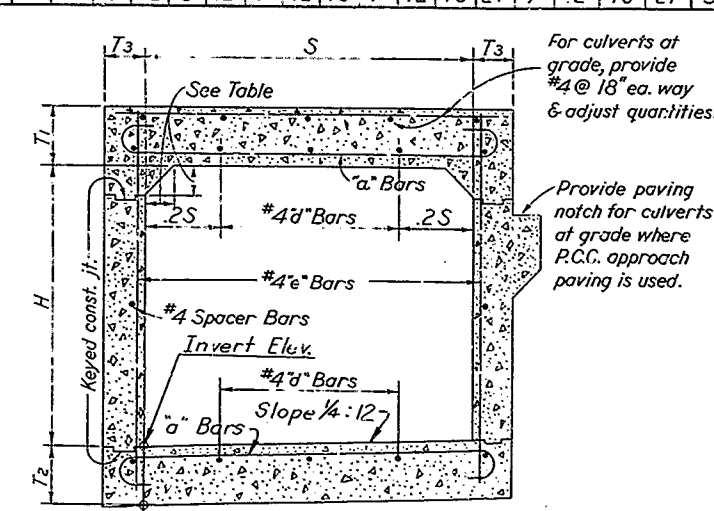
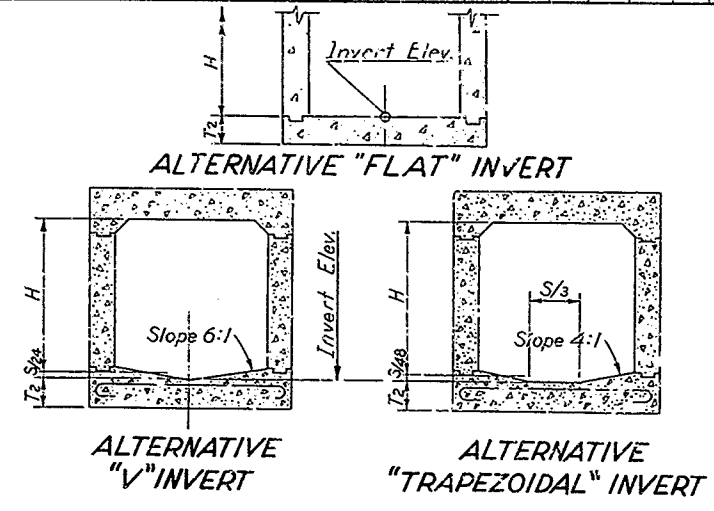
SPAN HEIGHT	2'		3'		4'			5'				6'			7'					
	A	B	A	B	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	E
Top Slab	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2
Bottom Slab	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2
Sidewalls	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2	6 2
Reinforcing Steel	[Detailed bar specifications for each span/height combination]																			
Quantities	[Concrete, Area, Hydraulic Radius, Head Factor, Entrance Capacity, Design Discharge, Max. Cover-F]																			

Bar numbers denote nominal diameters of round bars in eighths of an inch (Bar #6 = 3/4")

Note: For boxes of height less than that shown in table, use next greater table height slabs, wall dimensions and reinforcing steel, and make necessary changes in bar lengths, number of spacers and quantities.

August 15, 1960
 To Accompany Plans 71 204
 V.S. 2 L.S. 11 13
 APPROVED October 10, 1952
 STATE HIGHWAY ENGINEER
 CIVIL ENGINEER LICENSE 2084

SPAN HEIGHT	3'			4'			5'			6'			7'			8'			9'			10'			11'			12'				
	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Top Slab	[Detailed bar specifications for each span/height combination]																															
Bottom Slab	[Detailed bar specifications for each span/height combination]																															
Sidewalls	[Detailed bar specifications for each span/height combination]																															
Reinforcing Steel	[Detailed bar specifications for each span/height combination]																															
Quantities	[Concrete, Area, Hydraulic Radius, Head Factor, Entrance Capacity, Design Discharge, Max. Cover-F]																															



TOP SLAB FILLET

S (ft)	2	3	4	5	6	7	8	10	12
Fillet (in)	2	2	3	4	4	5	6	7	8

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD SINGLE BOX CULVERTS

SCALE BRIDGE FILE DRAWING
 1-3-56: Revised, Skipped Invert

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

SPAN HEIGHT	4								5								6								8							
	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	
STRENGTH CLASSIFICATION	[Values for strength classification]																															
Top Slab	[Values for top slab]																															
Bottom Slab	[Values for bottom slab]																															
Sidewalls	[Values for sidewalls]																															
Reinforcing Steel	[Values for reinforcing steel]																															
	[Values for reinforcing steel]																															
	[Values for reinforcing steel]																															
	[Values for reinforcing steel]																															
	[Values for reinforcing steel]																															
	[Values for reinforcing steel]																															
Hydraulics	[Values for hydraulics]																															
	[Values for hydraulics]																															
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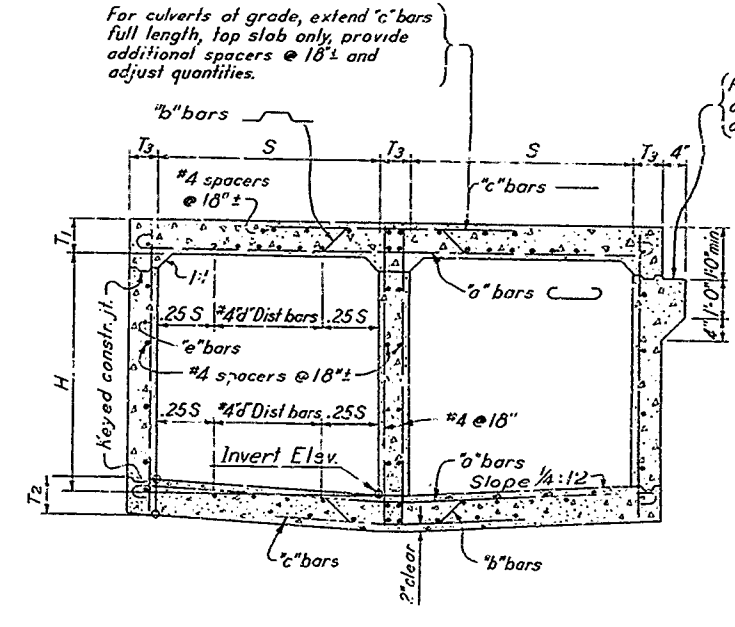
STATE CALIF. 72 207
 To Accompany Plans Dated August 15, 1960

Approved October 10, 1952
 [Signatures]

Bar numbers denote nominal diameters of round bars in eighths of an inch.

Note: For boxes of height less than that shown in table, use next greater table height slabs, wall dimensions and reinforcing steel, and make necessary changes in bar lengths, number of spacers and quantities.

SPAN HEIGHT	10								12							
	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D	
STRENGTH CLASSIFICATION	[Values for strength classification]															
Top Slab	[Values for top slab]															
Bottom Slab	[Values for bottom slab]															
Sidewalls	[Values for sidewalls]															
Reinforcing Steel	[Values for reinforcing steel]															
	[Values for reinforcing steel]															
	[Values for reinforcing steel]															
	[Values for reinforcing steel]															
	[Values for reinforcing steel]															
	[Values for reinforcing steel]															
Hydraulics	[Values for hydraulics]															
	[Values for hydraulics]															
	[Values for hydraulics]															
	[Values for hydraulics]															
	[Values for hydraulics]															
	[Values for hydraulics]															



TYPICAL SECTION
 (Showing reinforcement for interior walls 8" and over)

TOP SLAB FILLETS	
S (in feet)	Fillet (inches)
4	5 6 8 10 12
6	2 3 4 5 6 7

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 5000536

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD DOUBLE BOX CULVERTS

SCALE _____ BRIDGE _____ FILE _____ DRAWING _____

1-3-56 - Revised, Sloped Invert

72

DESIGNED BY: V.S. SLA
 CHECKED BY: V.S. SLA
 APPROVED: October 10, 1959
 STATE HIGHWAY ENGINEER

GENERAL NOTES

DESIGN NOTES

SPECIFICATIONS: A.A.S.H.O. dated 1953 with subsequent modifications and Bridge Department Supplement dated 1953.
LOADS: Live Load = one H20-S16-44 truck with 30% impact for all cover depths. Neglect live load when on single spans cover is more than 8' and exceeds span or on multiple spans cover exceeds distance between faces of exterior walls. Culverts at grade treated as bridge, with wheel load on invert slab distributed over 7.0' transversely and breadth of culvert longitudinally. Live load distributed thru fill as follows: Transverse spread = 1.2 + 1.6F; longitudinal spread = 1.5 + 1.5F. Earth load of 120 lbs. per cu. ft. and an equivalent fluid pressure of 36 lbs. per cu. ft. (both reduced 30% for balanced design) and modified for bedding and backfill conditions.
UNIT STRESSES: $f_s = 20,000$ psi; $f_c = 1,000$ psi; $A = 10$; $u = 300$; $v = 90$ psi. Reinforcement to be round deformed bars. Embedment is 1 1/2" Dia. clear, min 1", except as noted. Hooks shall conform to Manual of Standard Practice, A.C.I. Bending for hooks is 4 diameters. Bar splices to be 20 diameters, unless noted. Deformations shall conform to A.S.T.M. A-302-49. Distribution of bars; Cover "O" to span length, top slab = $r \frac{20}{8}$, min. 25%. Cover "O" to span length, bottom slab = $r \frac{20}{8}$, min. 25%. Cover exceeding span length, top and bottom slabs = 25%.

CONSTRUCTION NOTES

SPECIFICATIONS: Standard Specifications, Division of Highways, and Special Provisions accompanying plans.
MAXIMUM COVER: Strength Classification should be reviewed in the field after foundation is exposed. If excavation discloses foundation materials different than presumed for design, the design should be reviewed to determine the necessity of a stronger culvert section; @-improvement of bedding and/or @-Method "B" backfill, (i.e., Standard Specifications), except vertical faces of trench shall not be more than 1' outside dimensions of the structure.)
EXPANSION JOINTS: None in invert slab. Under cover less than span length, place 1/2" expansion joint in top slab and side walls in dividing strip or outside shoulder. Under cover more than span length, place expansion joints in top slab and side walls only at 30' ctrs., and additional joints, as directed by the Engineer, at locations of change of foundation material.
CONSTRUCTION LOADS: Construction loads heavier than legal loads not permitted until concrete has reached a strength of 3000 psi and structure strutted and braced as directed by Engineer.

LOCATION NOTES

HYDRAULICS: If slope of natural channel exceeds "neutral slope" of culvert entrance capacity for 10-yr. flood (Q_{10}) will usually determine size. Otherwise compute total head = $(\frac{L}{44})^2 (1.05 \frac{V^2}{g})$, where "x" is head factor, "L" is length of culvert and Q_{10} the 100-yr. flood, and compare with allowable head. Tabulated elements are for full nominal section.
MAXIMUM COVER: Allowable depends on bedding and backfill. Use:
 CASE II - For construction in trench on hard foundation.
 CASE IV - For construction in trench on yielding foundation; also if Method "B" backfill is used.
 CASE VI - For construction on hard foundation.
 CASE VIII - For construction on yielding foundation also on hard foundation if Method "B" backfill is used.
 For further information on Cases see "California Culvert Practice"

LOCATION NOTES CONT'D

DESIGNATION: Show on plans as Span x Height-Strength Classification-Case x Length: thus 4 x 4-A-VIII x 60, followed by alternatives.
ALTERNATIVES: Invert will be sloped unless "Trapezoidal Invert", "Flat Invert" or "V-Invert" is included in designation. Ends of culvert will be rounded unless "Square Ends" are designated. Parapet on culverts with over 2' cover will be 1'-0" unless "ft. parapet" is designated. Such designations may be different for inlet and outlet ends.
QUANTITIES: Quantities are for estimating only. They are for the alternate flat invert slab and do not include splices in longitudinal bars nor concrete and reinforcing for special coverage. Lengths of "b" and "b" bars are same. Vary bending of "b" bars to suit bottom slab.
SPECIAL COVERAGE: Where culverts are constructed adjacent to salt water, thickness of concrete shall be increased to provide 2" coverage between steel and exposed surface. Where scour is anticipated, thickness of bottom slab shall be increased to provide 2" minimum coverage between steel and exposed surface.

USE OF STANDARD PLAN

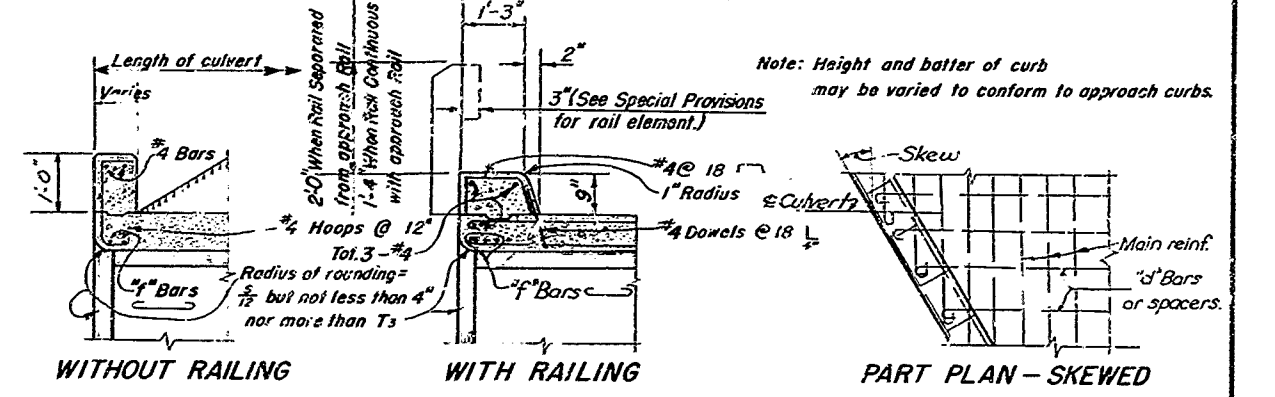
"STRENGTH CLASSIFICATION," symbolized by the letters "A,B,C," etc., at the top of the data table is merely a convenient designation for a particular structural section for a culvert of any given opening. It is dictated by two factors, (1) the method of bedding and backfill, and, (2) the cover or depth of fill over the top slab. For convenience, bedding and backfill conditions are grouped into Cases II, III, IV, V, VI, VII, VIII, which are illustrated by sketches and described in the "Location Notes." With little or no information on soil conditions, assume Case II or VIII.

EXAMPLES

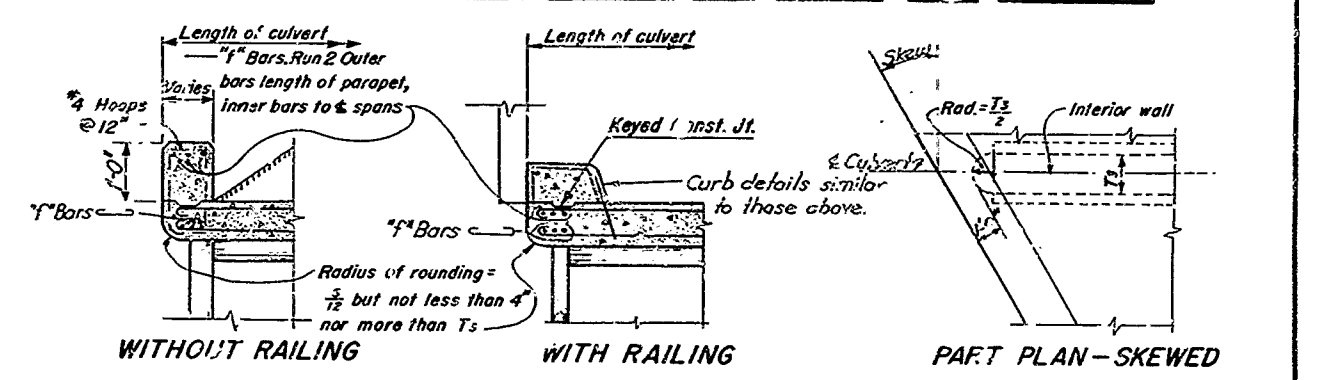
AS DESIGNER: It has been determined by hydraulic study, or other reasons, a std. 10' x 8' culvert 60' long is required, to be constructed in the open (no trench) on a yielding foundation and under 13' cover.
Procedure: From the sketches of Cases and Location Notes it is found bedding and backfill conditions conform to Case VIII. Enter the table at the 3rd line from the bottom (Case II or VIII) and select the 2nd column under the 6' row where cover depths to 13' are allowed. Move to the top of this column, where the required "Strength Classification" indicated by the letter "B" will be found. Final designation: Std. 10' x 8'-B-VIII x 60'.
AS RESIDENT ENGINEER: It is discovered in making the excavation for the above culvert, that the foundation is hard, instead of yielding as expected, and that compacted backfill will be used. From information on the standard plans it is ascertained this situation to be Case VI, which for a 13' cover requires Strength Classification "C." Accordingly, Change Order should be initiated calling for a 5'-4" 10' x 8'-C-VI x 60'.

SKEWED PARAPETS

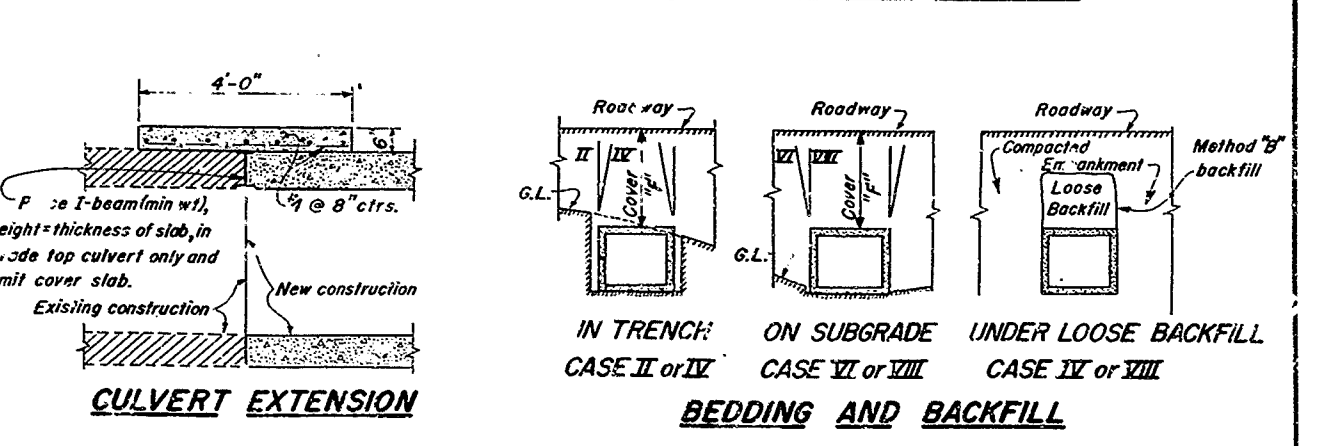
Skew Angle	Span	3	4	5	6	8	10	12
0°-15°	4	4	4	4	4	4	4	4
	5	4	4	4	4	4	4	4
16°-30°	4	4	4	4	4	4	4	4
	5	4	4	4	4	4	4	4
31°-45°	4	4	4	4	4	4	4	4
	5	4	4	4	4	4	4	4
0°-45°	4 Hoops	3	3	3	3	3	3	3
	12' ctrs.							



PARAPET DETAILS FOR SINGLE SPAN CULVERTS



PARAPET DETAILS FOR MULTIPLE SPAN CULVERTS



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
STANDARD BOX CULVERTS
MISCELLANEOUS DETAILS
 SCALE: BRIDGE NO.: FILE NO.: DRAWING: XS-1-29

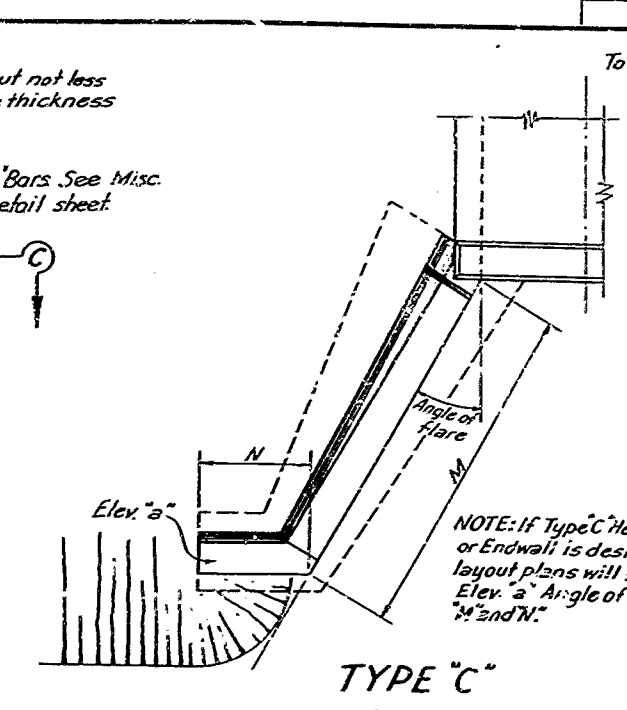
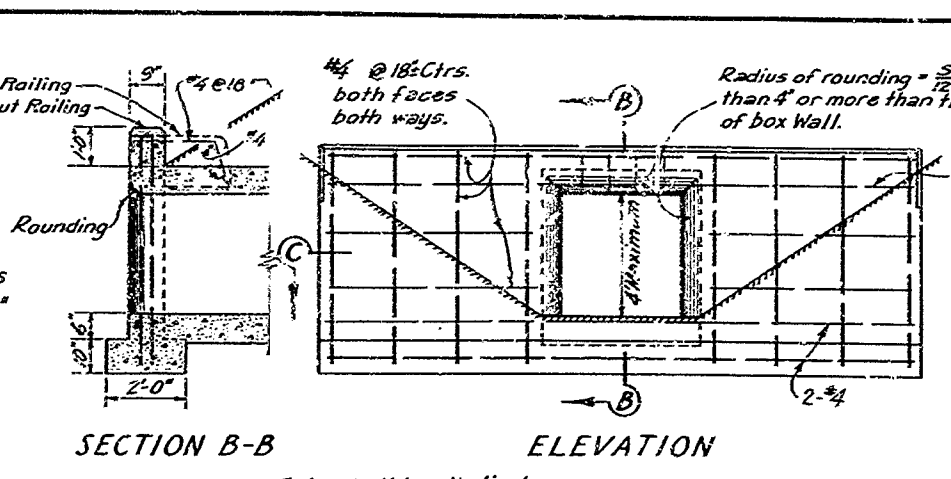
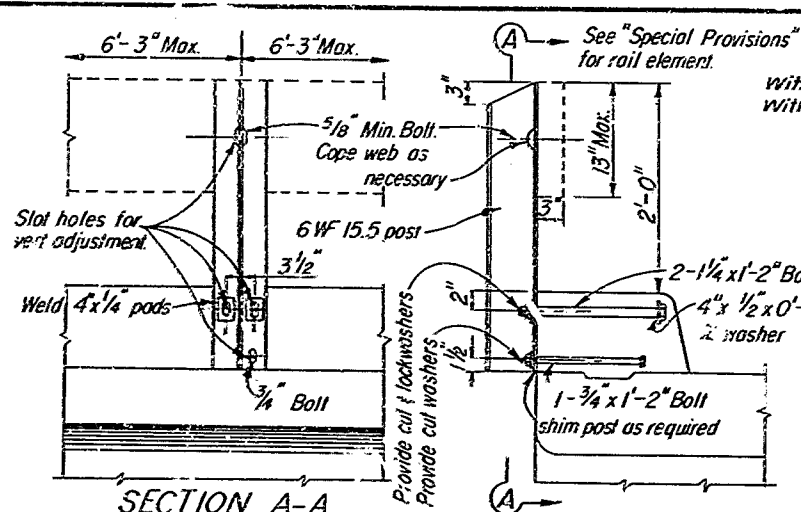
61-5V13C11

Revised: 1-3-56, Drawing Details

A-59

Approved: *Walter H. ...*
 October 10, 1962
 STATE ENGINEER
 CALIFORNIA

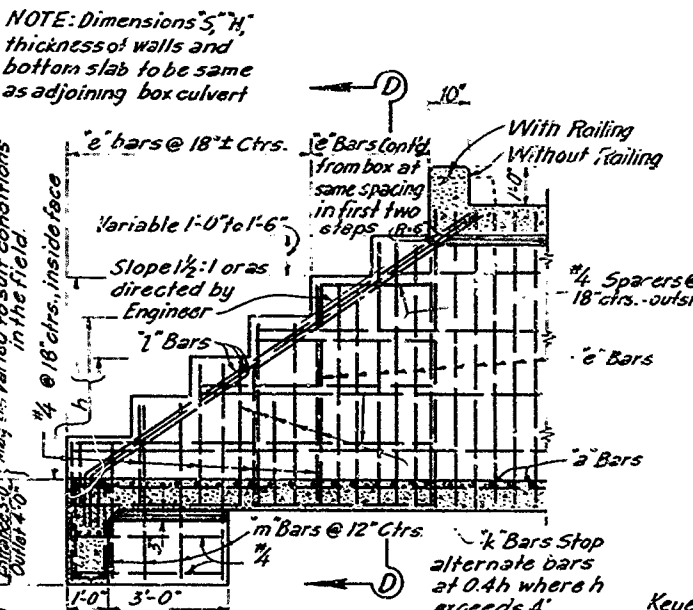
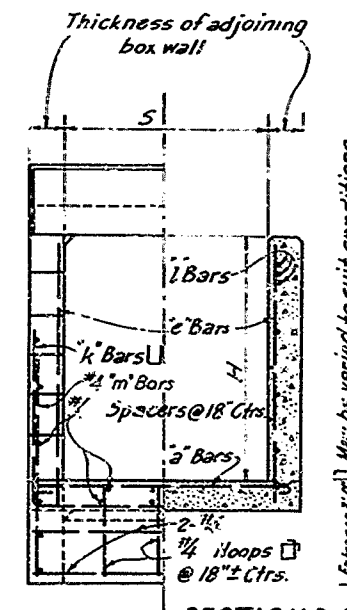
AS BUILT PLANS
 Document No. 61-5V13C11
 Completed 5/20/63



RAILING DETAILS
 Scale: 1"=1'-0"

TABLE OF REINFORCING STEEL TYPE 'W' WALLS

Span (ft)	3	4	5	6	7	8	10	12
k Bar No.	4	4	5	5	5	5	5	5
Bar Spacing	12	8	10	9	8	7	6	5
l Bar No.	3	3	4	4	4	4	4	4
Bar Number	2	2	3	3	3	3	3	3



END SECTION D-D ELEVATION
LONGITUDINAL SECTION TYPE E
 (STEPPED HEADWALL OR ENDWALL)
 May be used where future extension of culvert is necessary. If used on spans 7' to 12', it must be removed when culvert is extended.

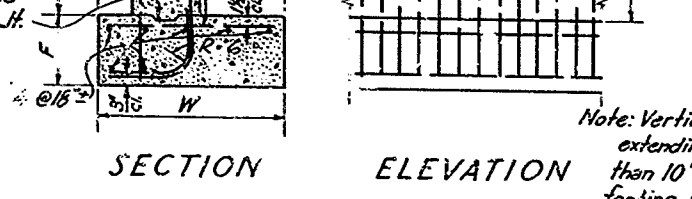
NOTES

DESIGN NOTES:
 Earth load of 100^{psf}/cu ft. and an equivalent fluid pressure of 20^{psf}/cu ft. Wingwalls designed for 2' surcharge.
 Unit stresses: $f_s = 20,000 \text{ psi}$; $f_c = 1000 \text{ psi}$; $n = 10$.
 Maximum soil pressure = 1/2 tons per sq. ft.
 All reinforcing steel round deformed bars, conforming to A-305-49. Hooks shall conform to Manual of Std. Practice, A.C.I. Backing for hooked bars 4 diameters. Embedment is 1 1/2 dia. clear, min. 1", unless noted.

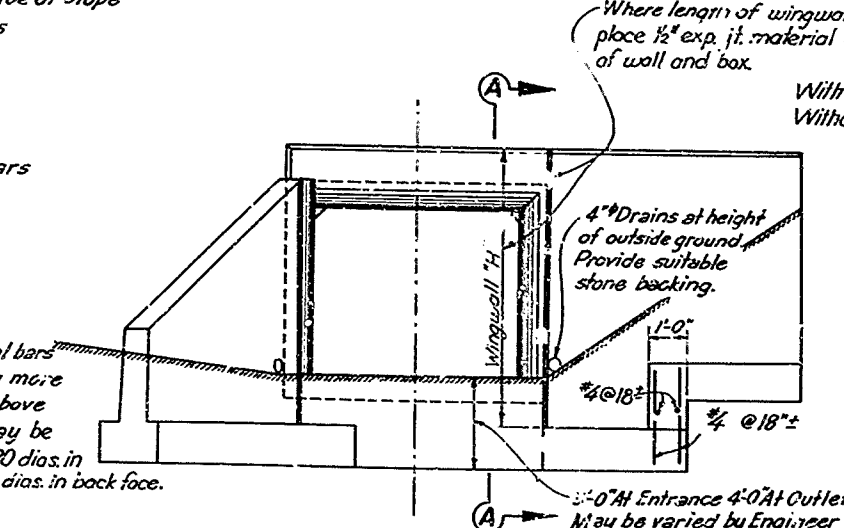
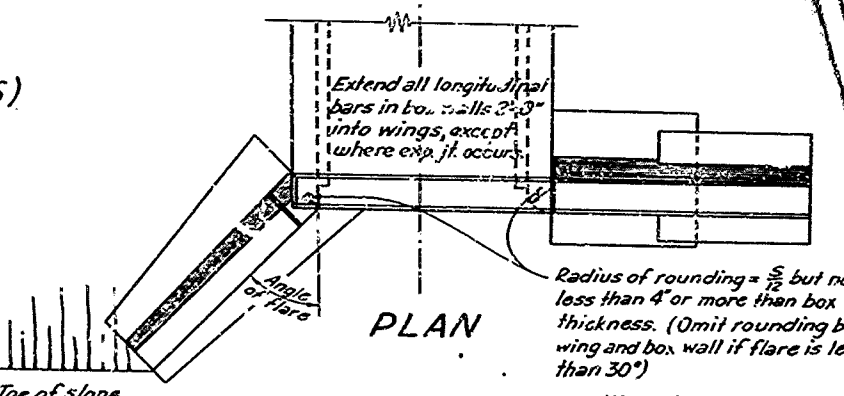
CONSTRUCTION NOTES:
 Standard Specifications and the Special Provisions accompanying plans.
 Elevations, length, and angle of flare of walls may be varied by the Engineer to suit conditions encountered in the field.

REINFORCED CONCRETE WING HEADWALLS & ENDWALLS

H	4'	5'	6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'
W	3-3	3-9	4-3	4-9	5-3	5-9	6-3	6-9	7-3	7-9	8-3	8-9	9-3
C	9"	11"	1-1"	1-3"	1-5"	1-7"	1-9"	1-11"	1-13"	1-15"	1-17"	1-19"	1-21"
B	2-6	2-10	3-2	3-6	3-10	4-2	4-6	4-10	5-2	5-6	5-10	6-2	6-6
F	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2
S ₂	1-1	1-1	1-2	1-3	1-4	1-4	1-5	1-6	1-7	1-7	1-8	1-9	1-10
g Bars	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12	1/4 @ 12
h Bars	-	-	-	-	-	-	-	5e16	5e14	5e12	5e10	5e8	5e6
i Bars	4e12	4e12	4e12	4e10	4e8	4e7	3e6	3e4	3e2	3e0	2e8	2e6	2e4
Conc. %	.28	.35	.41	.48	.55	.62	.70	.75	.85	.98	1.07	1.15	1.25
Steel %	.18	.19	.22	.25	.30	.36	.42	.49	.57	.70	.84	.99	1.12



SECTION ELEVATION



TYPE A END ELEVATION
TYPE B END ELEVATION
 (FLARED OR STRAIGHT WING HEADWALLS & ENDWALLS)

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
**STANDARD REINFORCED CONCRETE
 CULVERT HEADWALLS & ENDWALLS**

61-5V13C11

SCALE BRIDGE NO. FILE NO. 4-15 DR

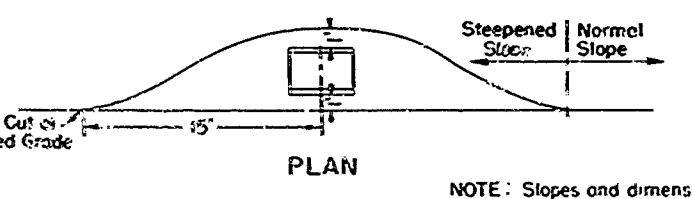
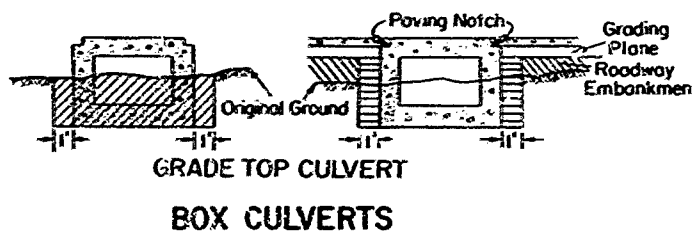
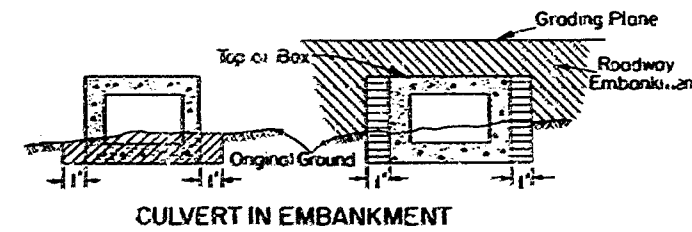
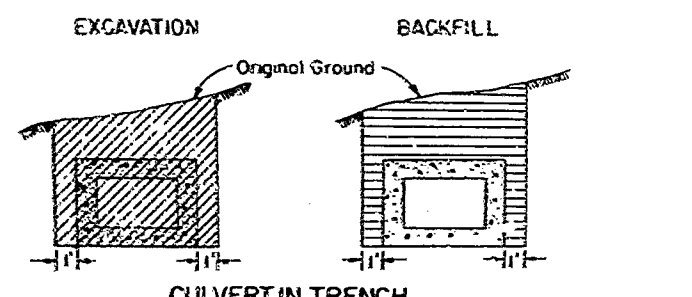
Revised 12-54 Deleted Std. Spec. Notes. Rev. 7-12-54; Date Eliminated Revised: 1-9-56; Railing Details. 11-5-19 **A-60**

74

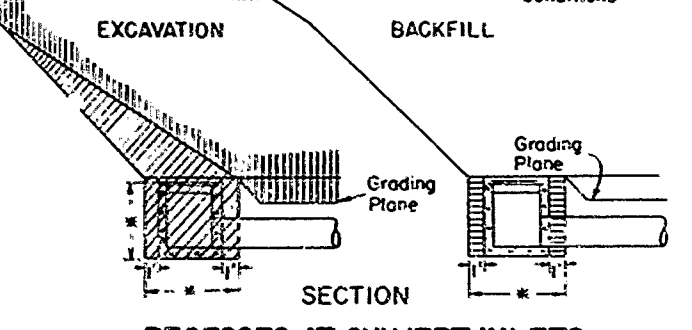
To accompany plans dated August 15, 1960

DISTRICT	COUNTY	ROUTE	SECTION	POST MILE	STATION
V	38	2	4.5	5.0	7-137

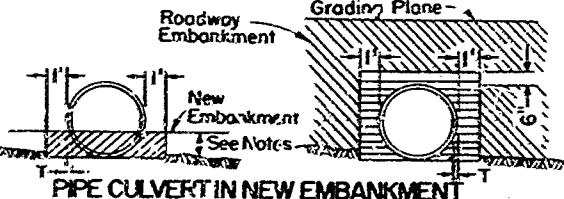
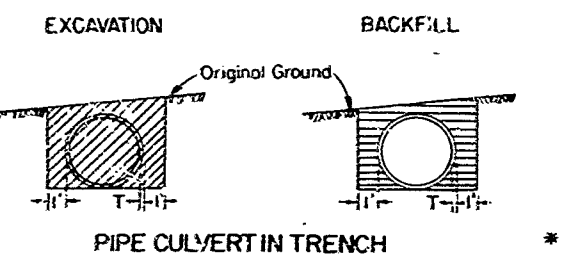
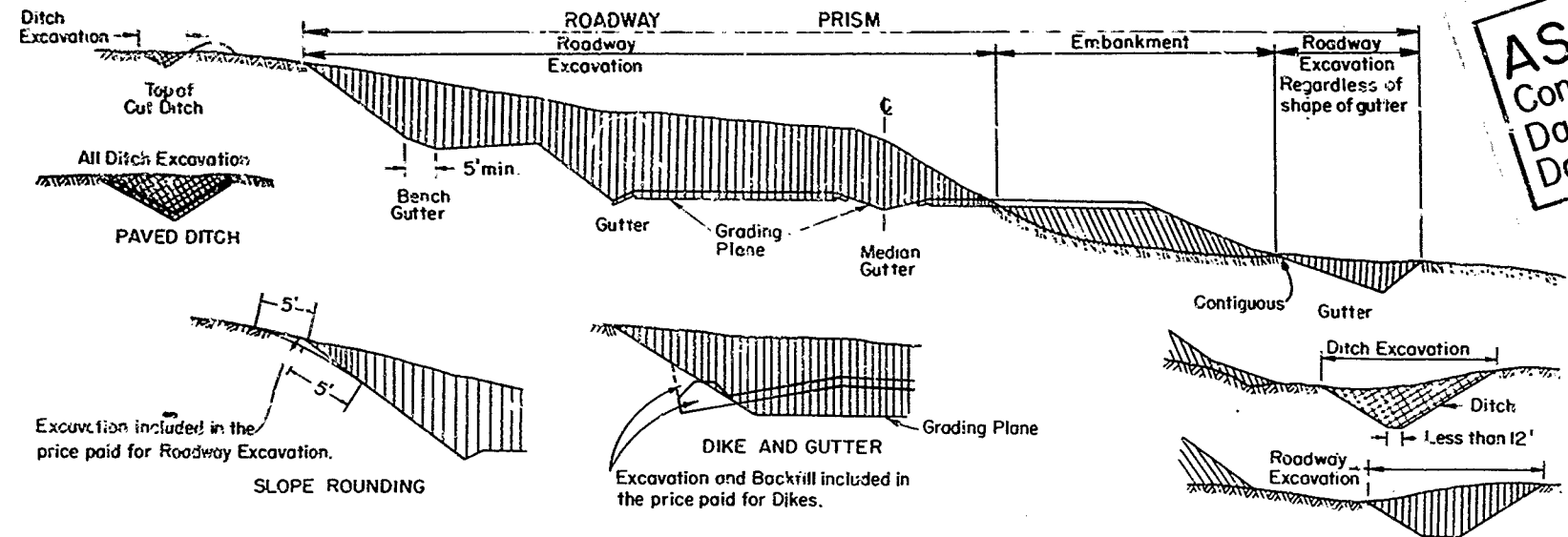
Approval Recommended
[Signature]
 Assistant State Highway Engineer - Bridges
 Approved June 30, 1960
[Signature]
 State Highway Engineer
 Civil Engineer License No. 5945



NOTE: Slopes and dimensions may vary to fit field conditions

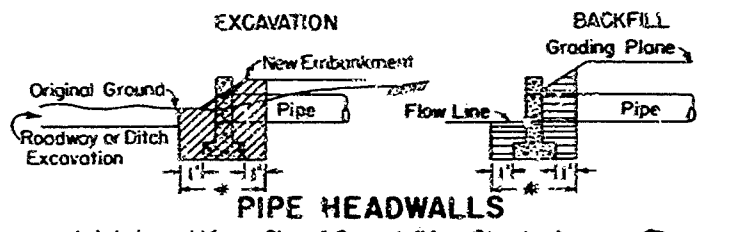
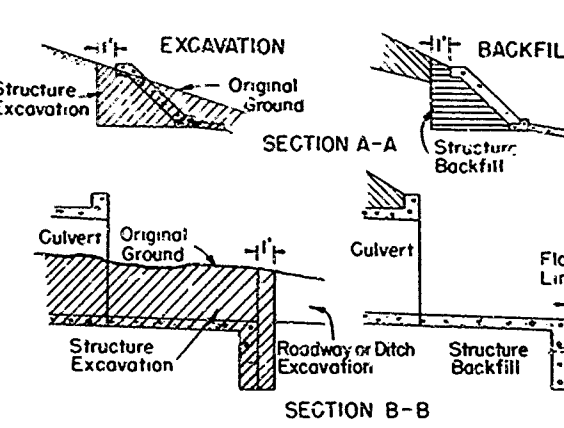
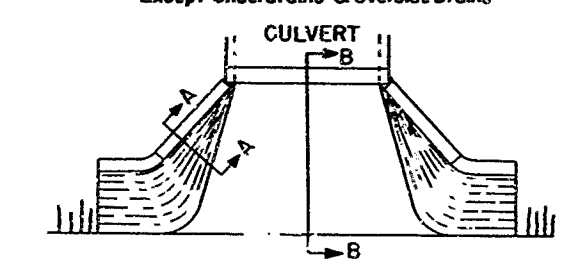


RECESSES AT CULVERT INLETS
 * When concrete is being paid for as Class A Concrete (Minor Structure) the cost of Excavation and Backfill is included in the price paid for Class A Concrete (Minor Structure)

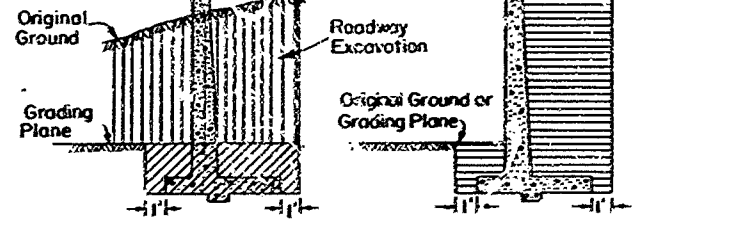


HEIGHT OF TOP OF EMBANKMENT BEFORE EXCAVATING FOR PIPE SHALL BE AS FOLLOWS:
 For pipe 24" dia. or less: 6" above top of pipe, or 30" max.
 For C.M.P. over 24" to 90" dia.: 30" above bottom of pipe.
 For C.M.P. over 90" dia.: 1/3 point of dia. above bottom of pipe.
 For R.C.P. over 24" dia.: 30" above bottom of pipe.
 For field assembled plate culvert: 1/3 point of dia. above bottom of pipe.
 Structure Backfill 6" above top of pipe.
 For payment quantities excavation and backfill concrete pipe T = min. wall thickness as shown in A.A.S.H.O. M170 for Class III Pipe, Wall A.
 For C.M.P. T = 0.00

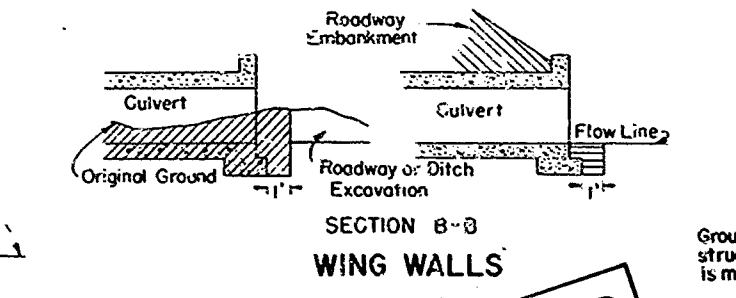
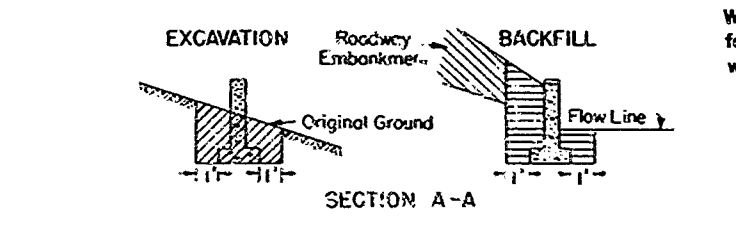
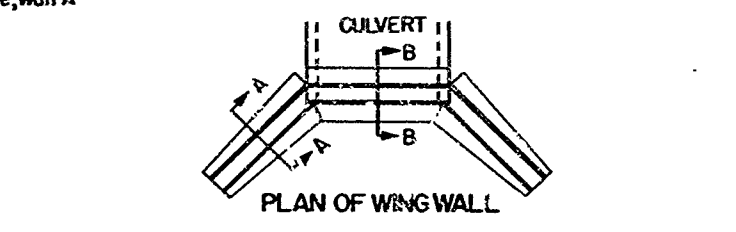
PIPE CULVERTS, RODS & DEADMEN
 Except Underdrains & Overside Drains



* When concrete is being paid for as Class A Concrete (Minor Structure) the cost of Excavation and Backfill is included in the price paid for Class A Concrete (Minor Structure)

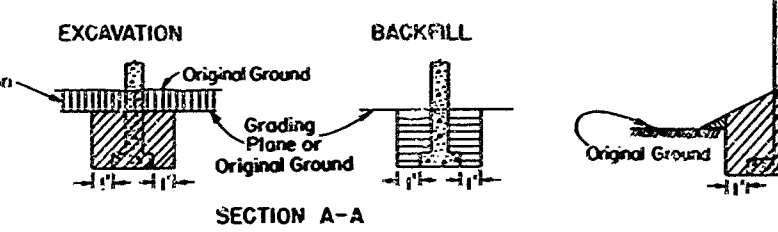
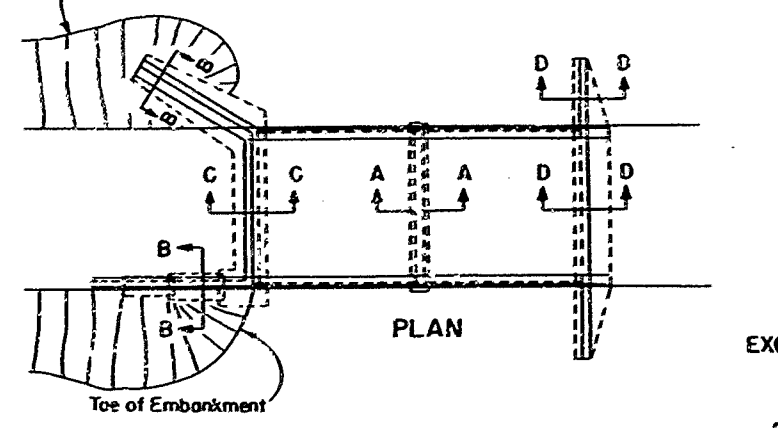
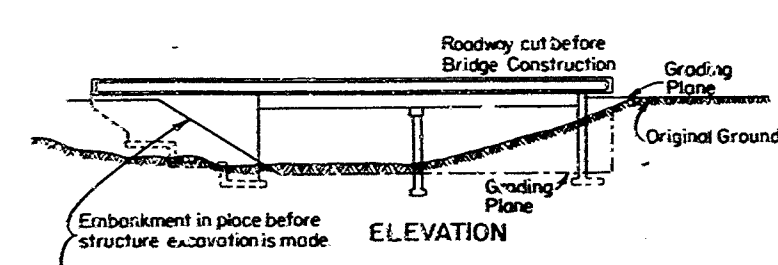


NOTE: If a roadway excavation is involved at the wall structure excavation will be measured from the original ground

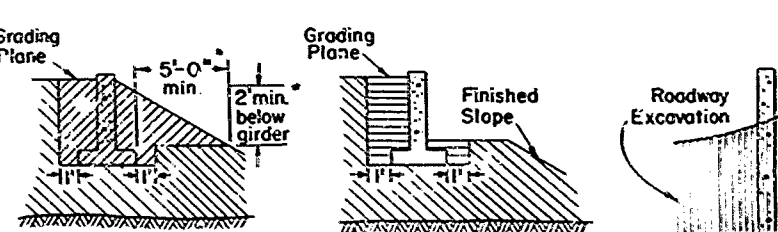


WING WALLS

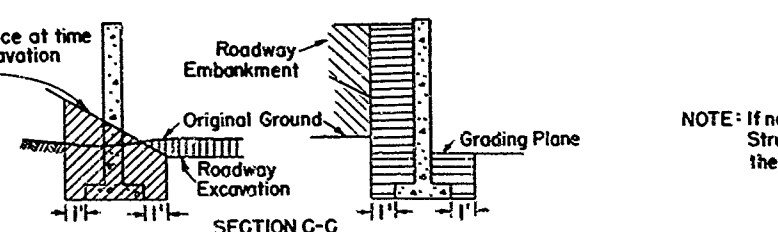
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50020536



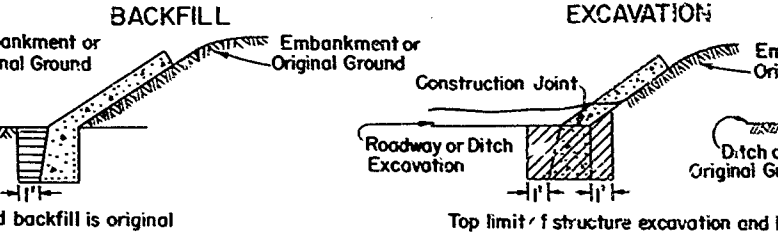
When bridge piers are in water course, quality and compaction requirements for backfill will be waived and full compensation for backfilling the excavation will be considered as included in the price paid for structure excavation.



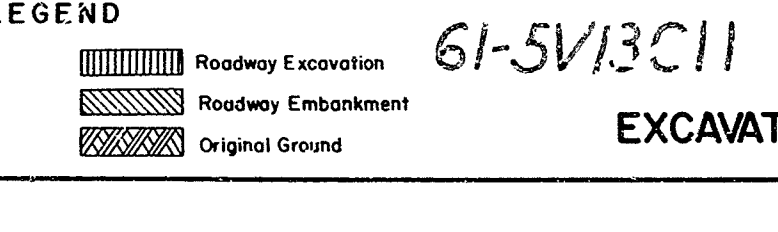
ABUTMENT IN EMBANKMENT



ABUTMENT IN ORIGINAL GROUND



BRIDGE PIERS, ABUTMENTS & ADJOINING WING WALLS



NOTE: If no roadway excavation is involved at bridge structure excavation will be measured from the original ground.

Top limit of structure excavation and backfill is original ground if ditch is not excavated.

Top limit of structure excavation and backfill is original ground if ditch is not excavated.



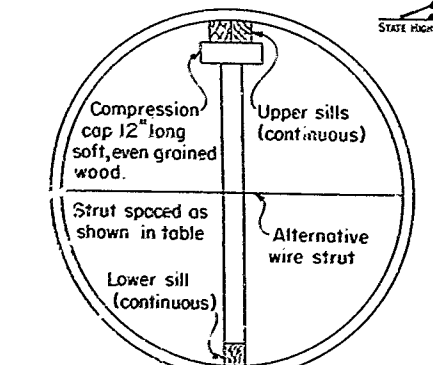
61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

EXCAVATION AND BACKFILL A62-3

To Accompany Plan - Date August 15, 1960
 DIVISION 2 L.S.M. # 76 187

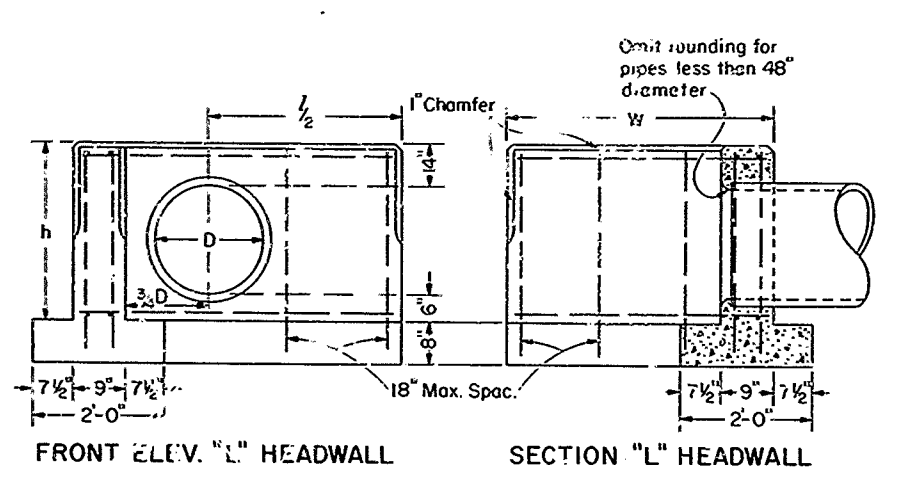
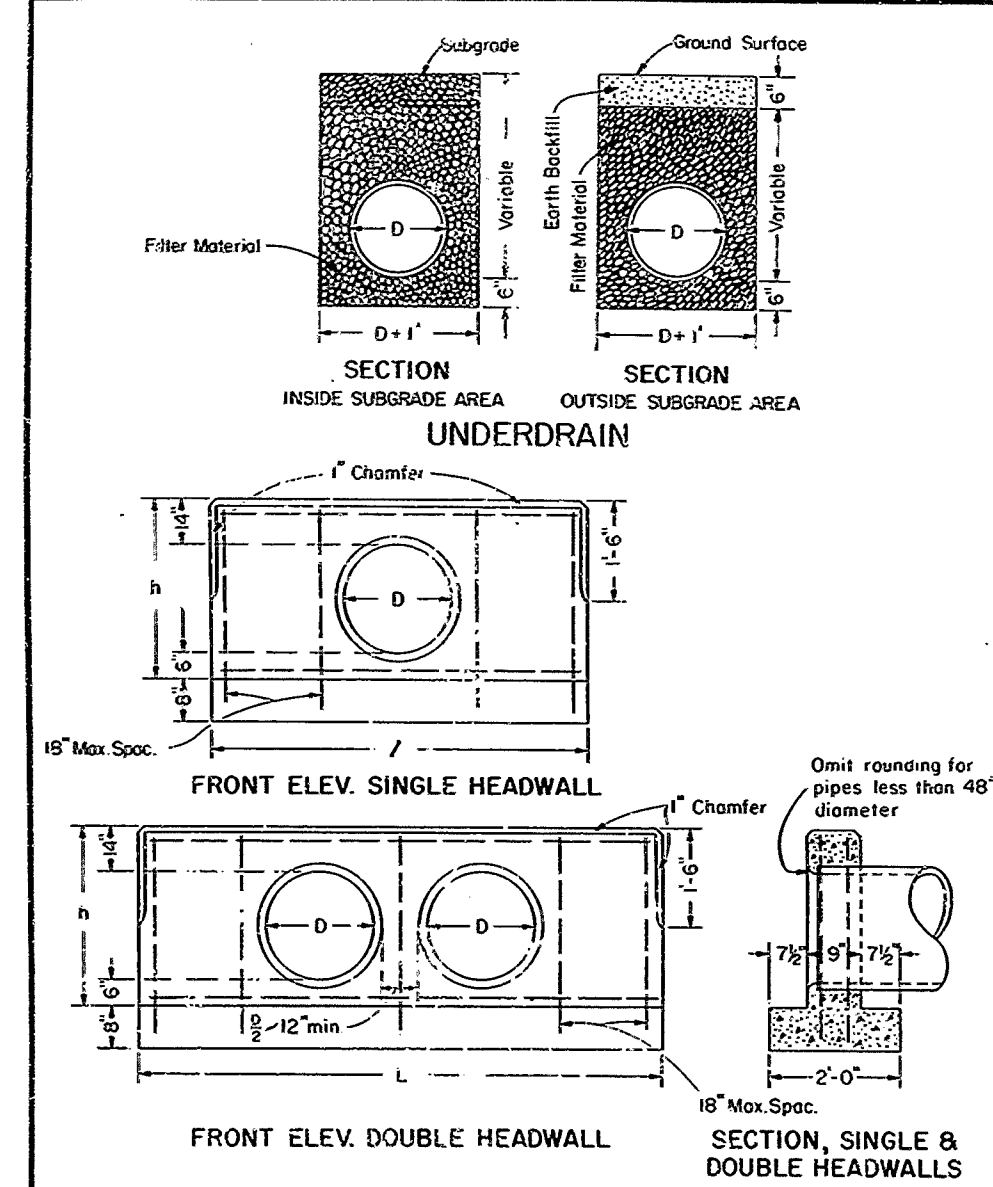
Note: Compression caps and sills to be same dimension timber as struts. Timber for struts and sills shall be Douglas Fir common.
 APPROVED: [Signature] JULY 10, 1957
 STATE HIGHWAY ENGINEER



STRUT DETAILS

SPACING IN FEET OF TIMBER STRUTS FOR CORR. METAL AND FIELD ASSEMBLED PLATE PIPE

PIPE DIA.	STRUT SIZE	HEIGHT OF FILL IN FEET							
		0-20	30	40	50	60	70	80	100
48	4x4	5.0	3.5						
48	1x6	6.0	5.0	4.0	3.5	3.0			
48	5x6			6.0	5.0	4.5	4.0	3.5	
48	5x8						6.0	5.0	
60	4x4	6.0	4.0	3.0					
60	4x6	6.0	4.5	3.5	3.0				
60	6x6			5.5	4.5	4.0	3.5	3.0	
60	5x8					5.5	4.5	4.0	
72	4x4	5.0	3.0						
72	4x6	6.0	5.0	3.5	3.0				
72	5x6			6.0	4.5	4.0	3.5	3.0	
72	6x8					5.0	4.5	4.0	3.5
84	6x6	6.0	5.0	4.0	3.5	3.0			
84	6x8						5.0	4.5	4.0
84	8x8							4.5	3.5
96	6x6	6.0	5.5	4.5	3.5	3.0			
96	6x8			5.5	4.5	4.0	3.5	3.0	
96	8x8							4.5	4.0
108	6x6	6.0	5.0	3.5	3.0				
108	6x8	6.0	5.0	4.0	3.5	3.0			
108	8x8							4.5	4.0
120	6x6	6.0	4.0	3.0					
120	6x8	6.0	5.5	4.0	3.5	3.0			
120	8x8							5.0	4.0
132	6x6	6.0	4.5	3.5	3.0				
132	8x8								5.5
144	6x6	6.0	5.5	4.0	3.0				
144	8x8								5.0
156	6x8	4.5	3.0						
156	8x8								6.0
168	6x8	3.5							
168	8x8	6.0	5.0	4.0	3.0				
180	6x8	3.0							
180	8x8	6.0	4.5	3.5					



D in.	h ft.-in.	Z ft.-in.	Single			Double			
			Vert. bars	Steel lbs.	Conc. C.Y.	L ft.-in.	Vert. bars	Steel lbs.	Conc. C.Y.
12	2-8	5-0	8	28	0.60	7-0	10	38	0.82
15	2-11	6-0	12	41	0.75	8-6	14	52	1.04
18	3-2	7-0	12	46	0.91	9-6	14	57	1.21
21	3-5	7-6	12	49	1.02	10-6	14	62	1.38
24	3-8	8-6	12	54	1.20	11-6	14	67	1.57
27	3-11	9-6	16	70	1.39	13-0	18	85	1.84
30	4-2	10-0	16	74	1.52	14-0	18	91	2.04
33	4-5	11-0	16	79	1.73	15-0	18	96	2.25
36	4-8	12-0	16	85	1.95	16-6	18	103	2.56
39	4-11	12-6	16	89	2.09	17-6	20	116	2.79
42	5-2	13-6	16	94	2.34	18-6	20	122	3.03
45	5-5	14-6	20	115	2.60	20-0	26	153	3.38
48	5-8	15-0	20	119	2.75	21-0	26	160	3.64
51	5-11	16-0	20	125	3.03	22-6	26	168	4.02
54	6-2	17-0	20	131	3.31	23-6	26	175	4.30

Use headwall tables for concrete pipe and for C.M.P. No deduction made in quantities for variations in thickness of pipe walls. All reinforcing steel #4 bars.

D in.	h ft.-in.	L/2 ft.-in.	Length of W					Conc. C.Y.
			Number of Vertical Bars					
			2'-0" to 3'-4"	3'-5" to 4'-10"	4'-11" to 6'-4"	6'-5" to 7'-10"	7'-11" to 9'-4"	
12	2-8	2-6	28+3W	32+3W			0.38+0.12W	
15	2-11	3-0	36+3W	41+3W			0.48+0.13W	
18	3-2	3-6	40+3W	45+3W			0.59+0.14W	
21	3-5	3-9	43+3W	48+3W			0.66+0.14W	
24	3-8	4-3	47+3W	52+3W	58+3W		0.78+0.15W	
27	3-11	4-9	57+3W	62+3W	68+3W		0.91+0.16W	
30	4-2	5-0	60+3W	66+3W	73+3W	78+3W	1.00+0.17W	
33	4-5	5-6	64+3W	71+3W	77+3W	83+3W	1.13+0.17W	
36	4-8	6-0	68+3W	75+3W	82+3W	88+3W	95+3W	1.28+0.18W
39	4-11	6-3	79+3W	86+3W	93+3W	100+3W	1.39+0.19W	
42	5-2	6-9	83+3W	91+3W	98+3W	106+3W	1.54+0.19W	
45	5-5	7-3		103+3W	111+3W	119+3W	1.71+0.20W	
48	5-8	7-6		108+3W	116+3W	124+3W	1.82+0.21W	
51	5-11	8-0			121+3W	130+3W	2.00+0.21W	
54	6-2	8-6			127+3W	136+3W	2.18+0.22W	

STRAIGHT HEADWALLS **PIPE CULVERT HEADWALLS** **"L" HEADWALLS**

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
PIPE CULVERTS AND HEADWALLS

AS BUILT PLANS
 Contract No. 61-5V13C-11
 Date Completed _____
 Document No. 50000536

61-5V13C-11

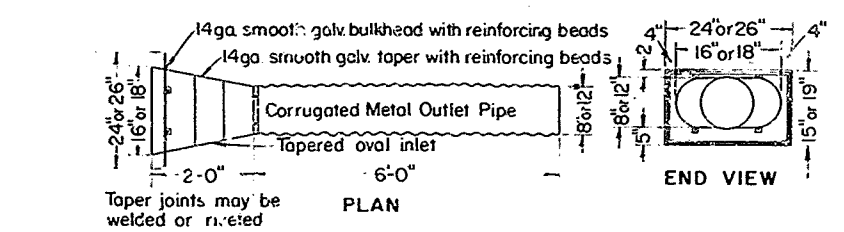
To accompany plans dated August 15, 1960

DISTRICT	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SE	2	LSM 12A, E	77	137

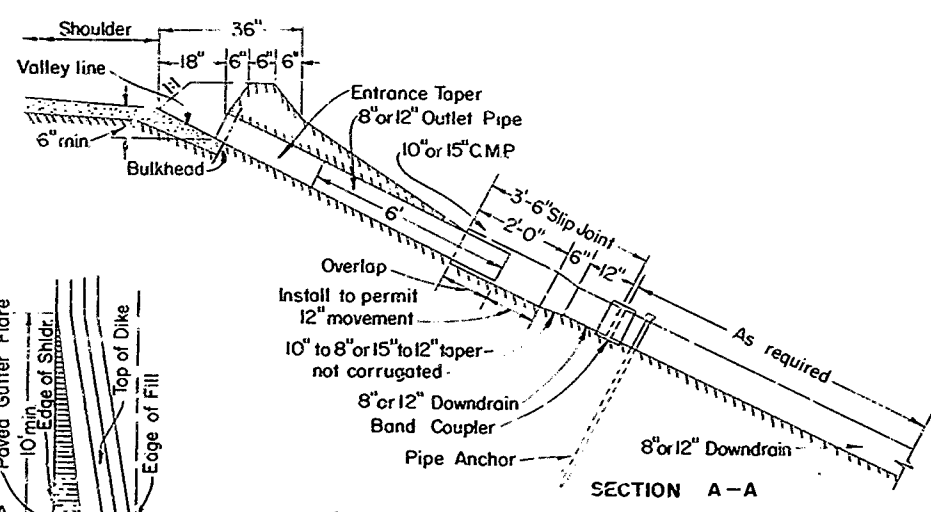
APPROVAL RECOMMENDED

J. L. ...
 Engineer of Design
 Civil Engineer License No. 5630
 Approved November 19, 1959

J. W. Vickrey
 State Highway Engineer
 Civil Engineer License No. 7094
 By: *J. ...*
 Deputy State Highway Engineer
 Civil Engineer License No. 5345

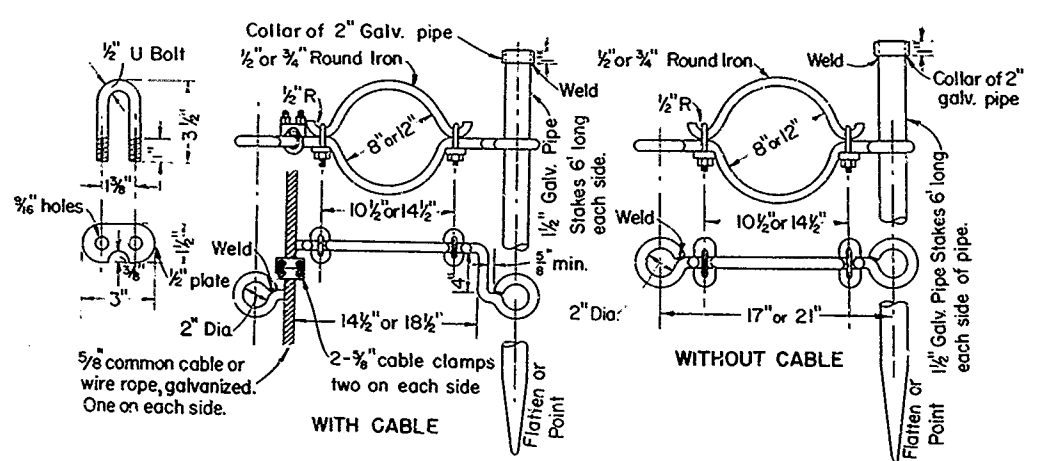


ENTRANCE TAPER

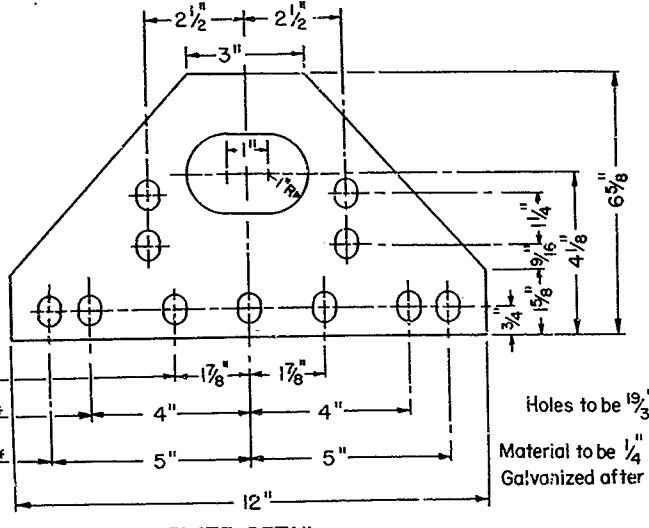


ENTRANCE TAPER AND PIPE DOWNDRAIN

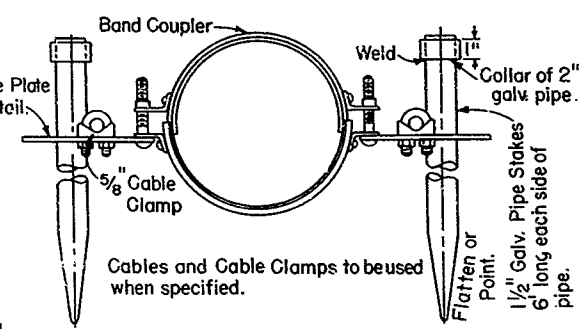
Use 10' length of gutter flare on both sides in sag location.



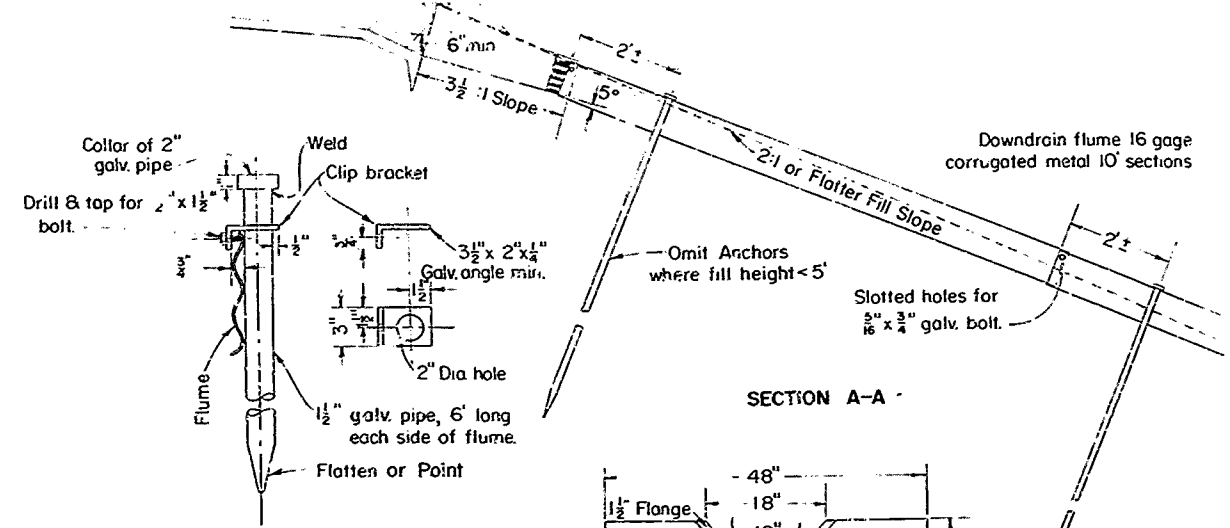
ANCHOR ASSEMBLY ALTERNATIVE A



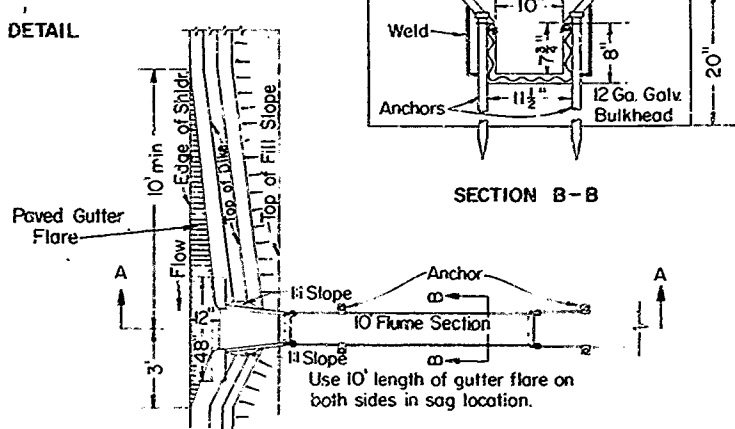
* Length of band coupler measured parallel to the center line of the pipe.



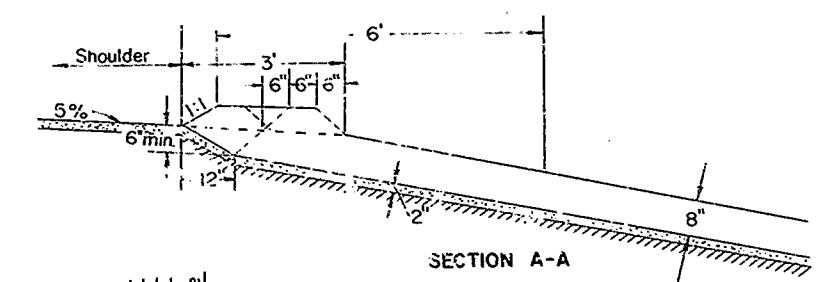
ANCHOR ASSEMBLY ALTERNATIVE B



TAPERED INLET AND FLUME DOWNDRAIN

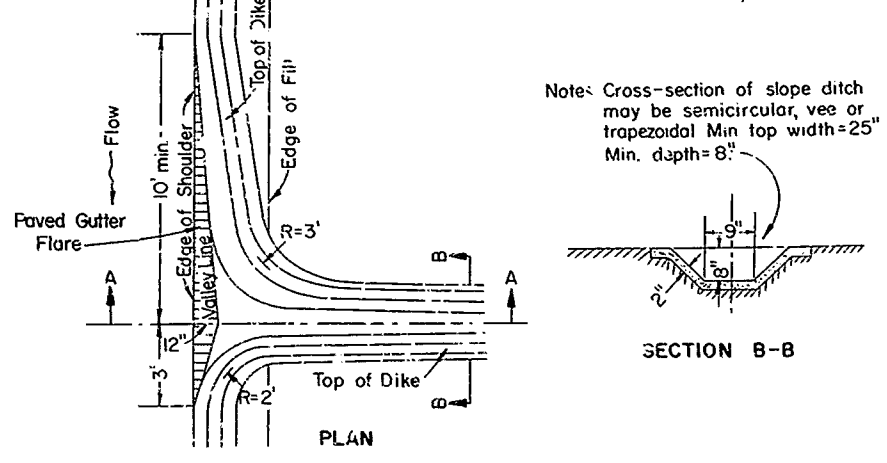


TAPERED INLET



ASPHALT CONCRETE SPILLWAY

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



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

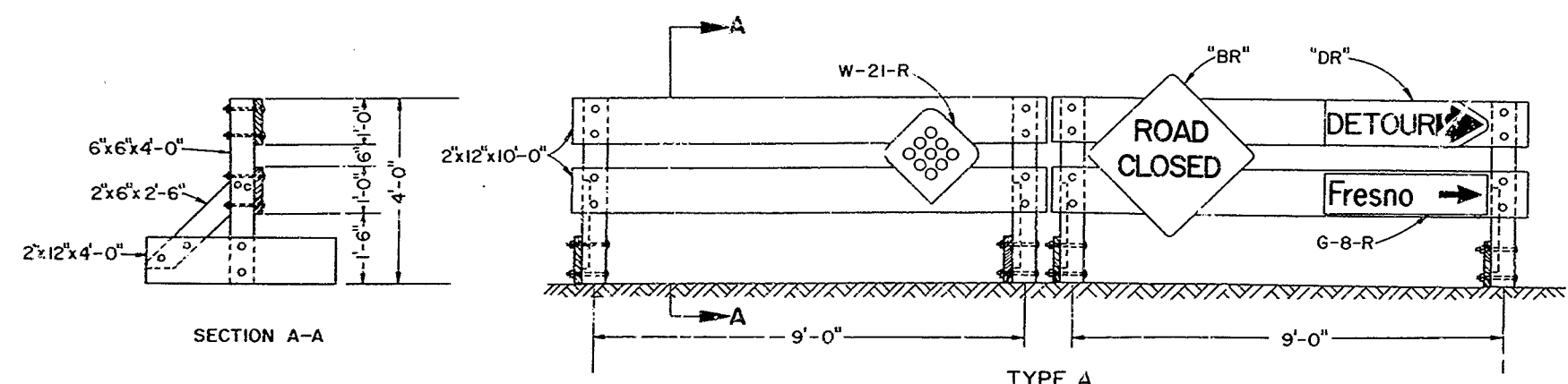
61-5V13C11 OVERSIDE DRAINS A70-1

For payment purposes, an Anchor Assembly shall include two Pipe Stakes. All Pipe Stakes to be galvanized after fabrication.

DISTRICT	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
V	36	2	LSM/F	78	204

To accompany plans dated August 15, 1960
 DISTRICT COUNTY ROUTE SECTION SHEET TOTAL
 V 36 2 2 L S M / F 78 137

Approval Recommended *[Signature]*
 Engineer of Design
 Approved *[Signature]*
 January 26, 1959
 State Highway Engineer License No. 5084

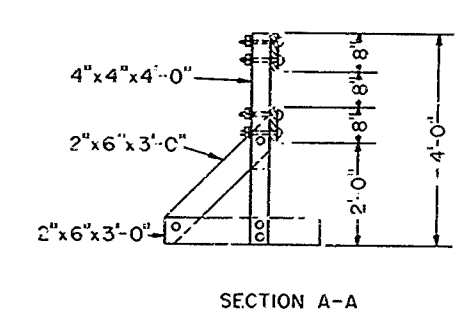


SECTION A-A

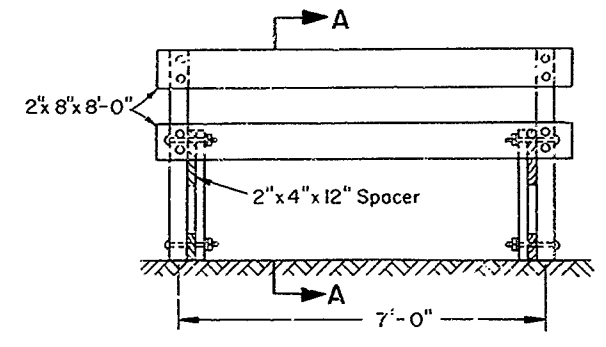
TYPE A
TIMBER BARRICADES

NOTE: Signs to be furnished by State
 All timber to be S4S
 Use 1/2" Carriage Bolts with cut washers and nuts.

10' SECTIONS
SCALE 1" = 2'

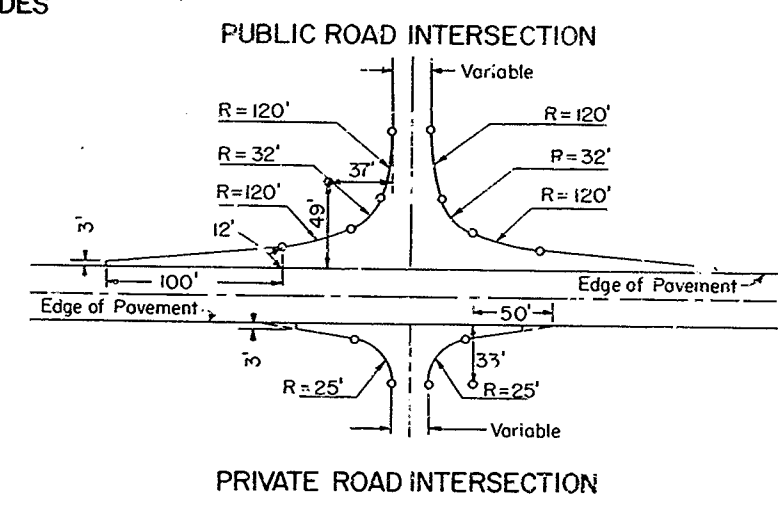


SECTION A-A

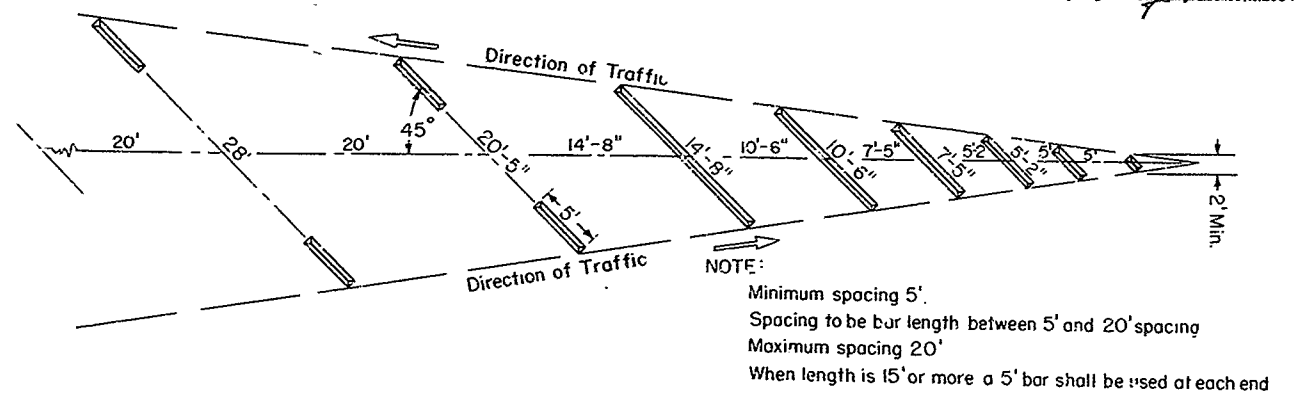


TYPE B
TIMBER BARRICADE

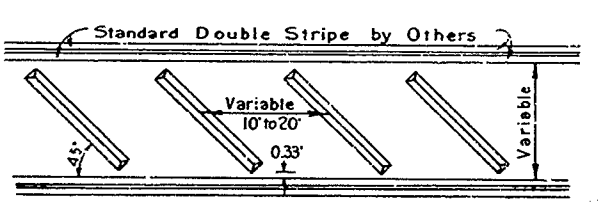
8' SECTION
SCALE 1" = 2'



PRIVATE ROAD INTERSECTION



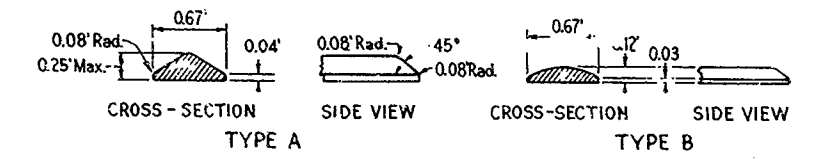
TRANSITION 2 TO 4 LANE



DIAGONAL RAISED BARS



T-TRAFFIC BARS



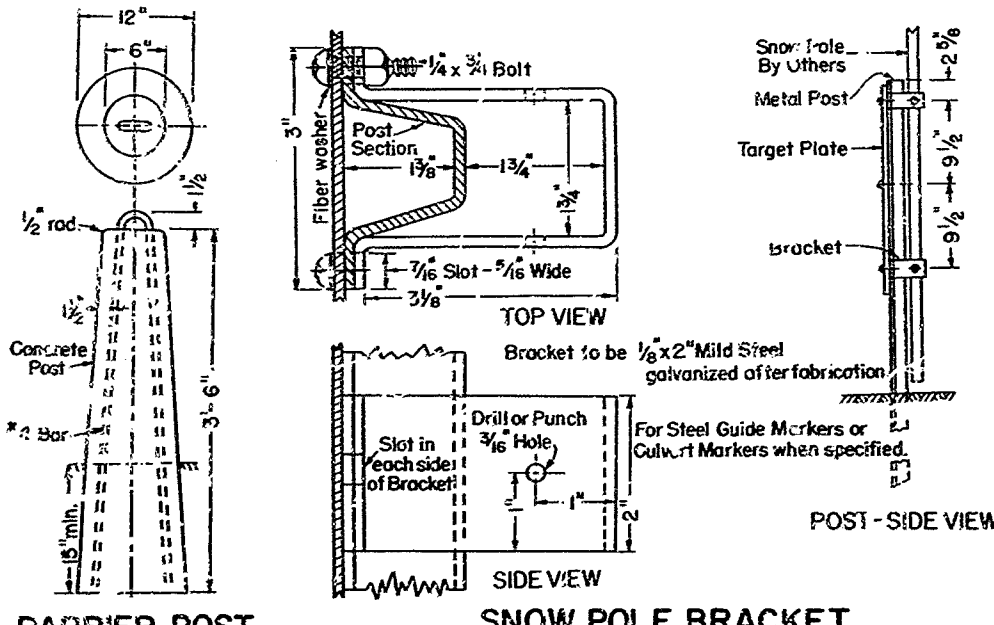
RAISED TRAFFIC BARS

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

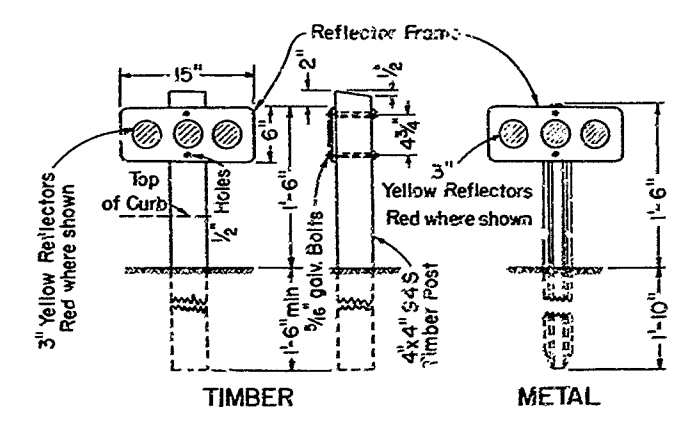
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 TIMBER BARRICADES
 AND RAISED TRAFFIC BARS
 A73 REV.

61-5V13C11

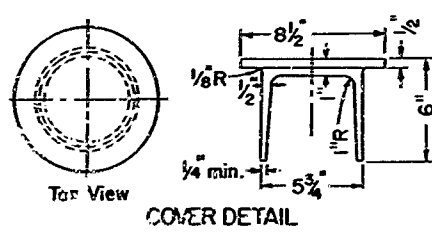
78



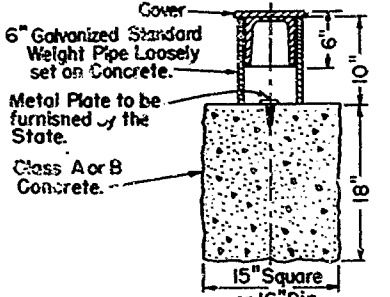
BARRIER POST **SNOW POLE BRACKET**



HORIZONTAL REFLECTOR MARKERS WGR
Use type specified or as shown on plan summary.

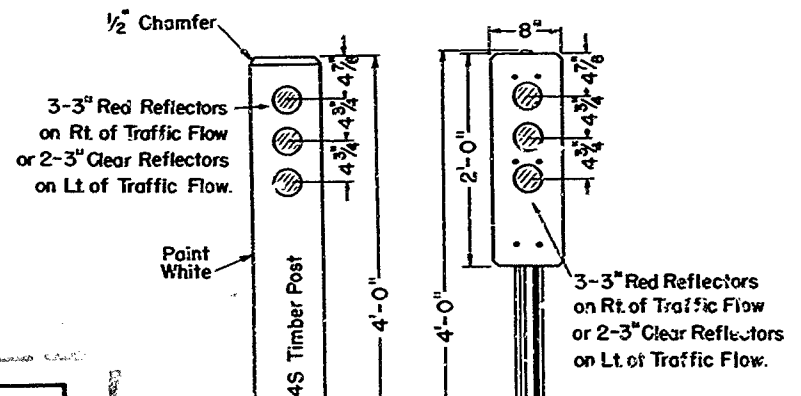


COVER DETAIL

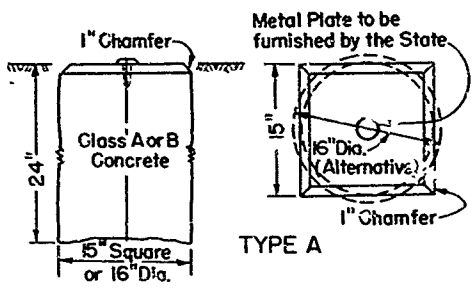


TYPE B

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

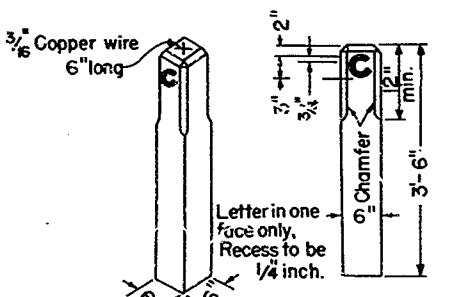


CLEARANCE MARKERS

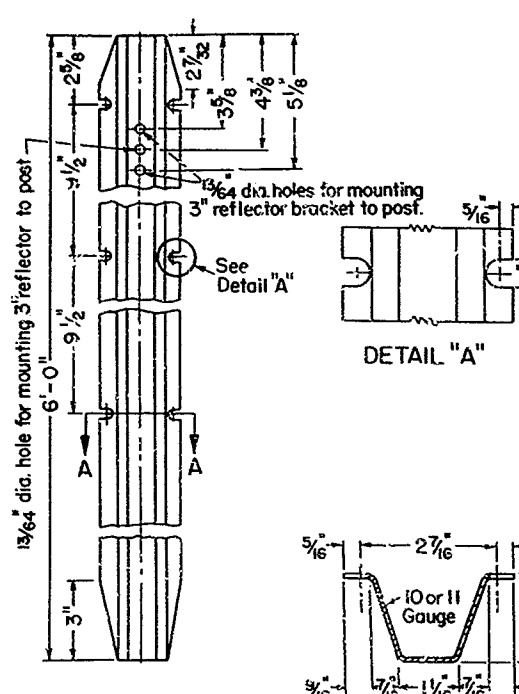


TYPE A

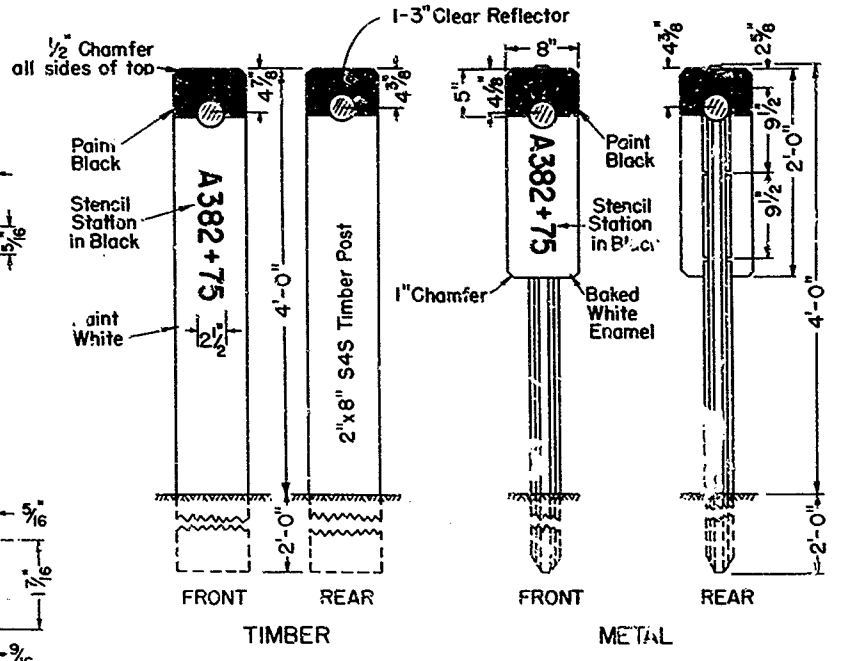
SURVEY MONUMENTS



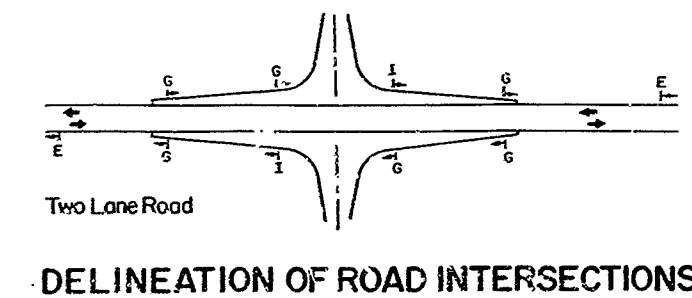
R/W AND ACCESS OPENING MONUMENTS



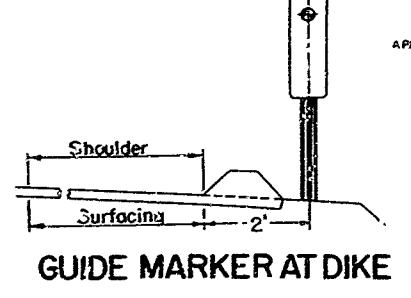
METAL MARKER POST



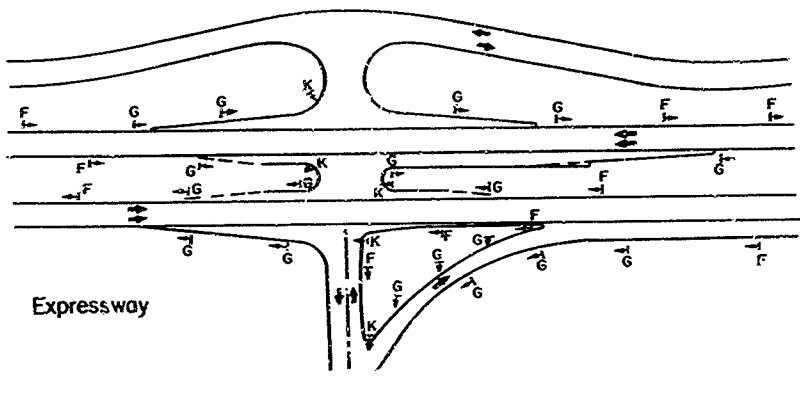
CULVERT MARKERS
To be reflectorized when specified or as shown on culvert list.



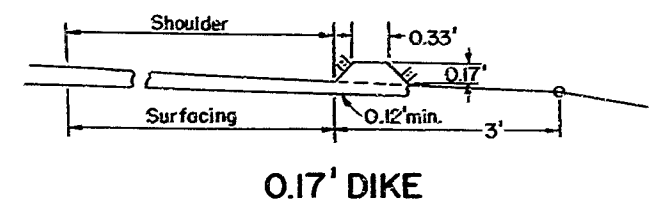
DELINEATION OF ROAD INTERSECTIONS



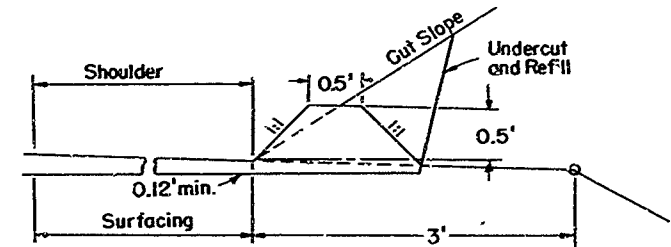
GUIDE MARKER AT DIKE



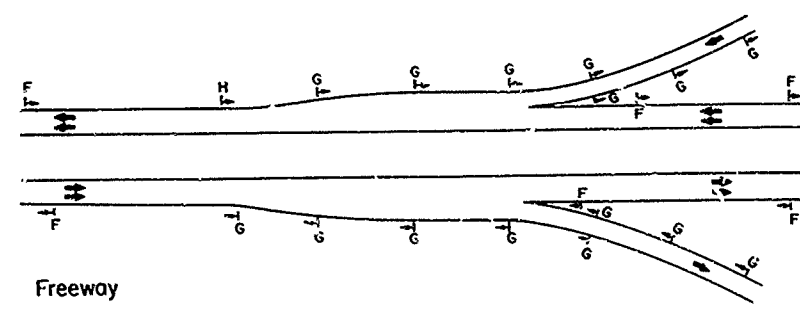
DELINEATION OF TRAFFIC ISLANDS



0.17' DIKE

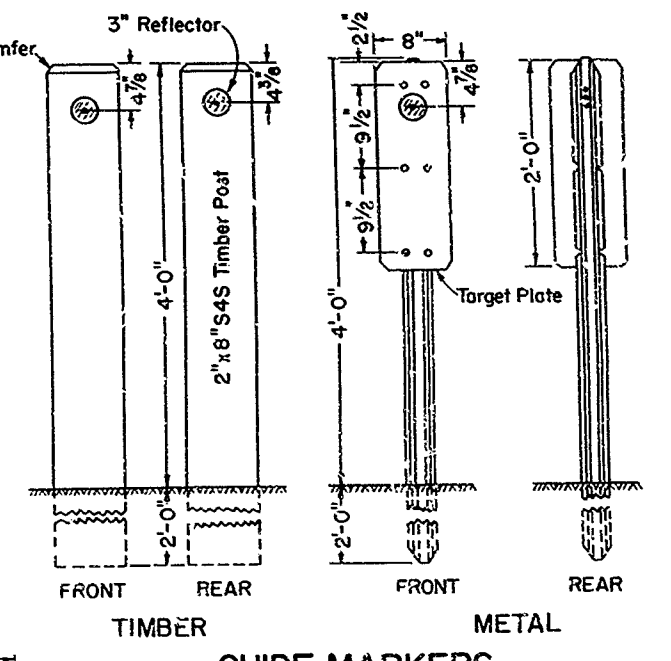


0.5' DIKE



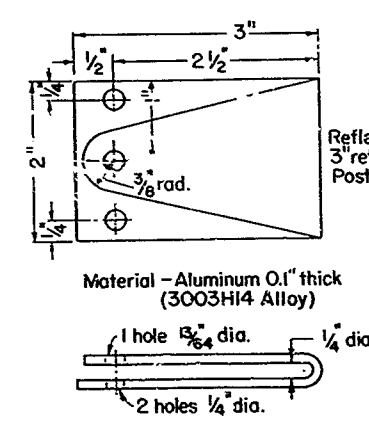
DELINEATION OF RAMPS

Single 3" Clear Reflectors continuously on right of through roadways and on outside of curve: 200' spacings on tangent sections and standard spacing on curves as directed by the Engineer. - Type F
Double 3" Yellow Reflectors on right of acceleration and deceleration lanes and tangent ramp sections at 100' spacings and on outside of ramp curves at standard spacing as directed by the Engineer. - Type G
Triple 3" Yellow Reflectors at end of acceleration lane - Type H



GUIDE MARKERS
Use type specified or as shown on plan summary

GUIDE MARKERS REFLECTORS			
Type	Color	Front	Back
A	None	None	None
E	Clear	1-3"	1-3"
F	Clear	1-3"	None
G	Yellow	2-3"	None
H	Yellow	3-3"	None
I	Yellow	2-3"	1-3"
Horizontal Reflector Markers WGR			
J	Red	3-3"	None
K	Yellow	3-3"	None
Clearance Markers			
L	Red	3-3"	None
M	Clear	2-3"	None

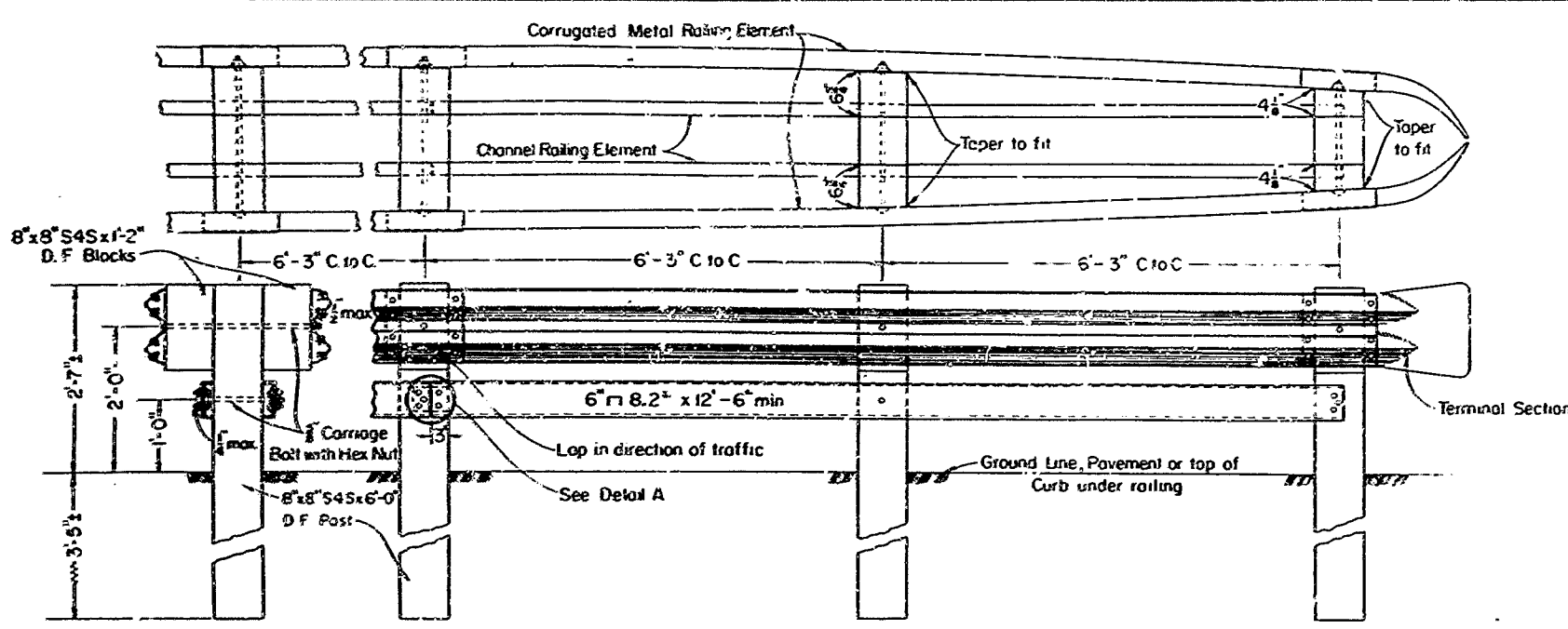


REFLECTOR BRACKET

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

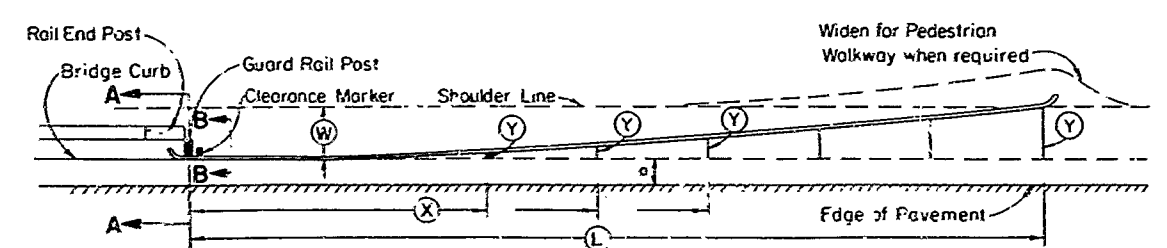
DIKES AND MARKERS A74-2

61-5V13C11



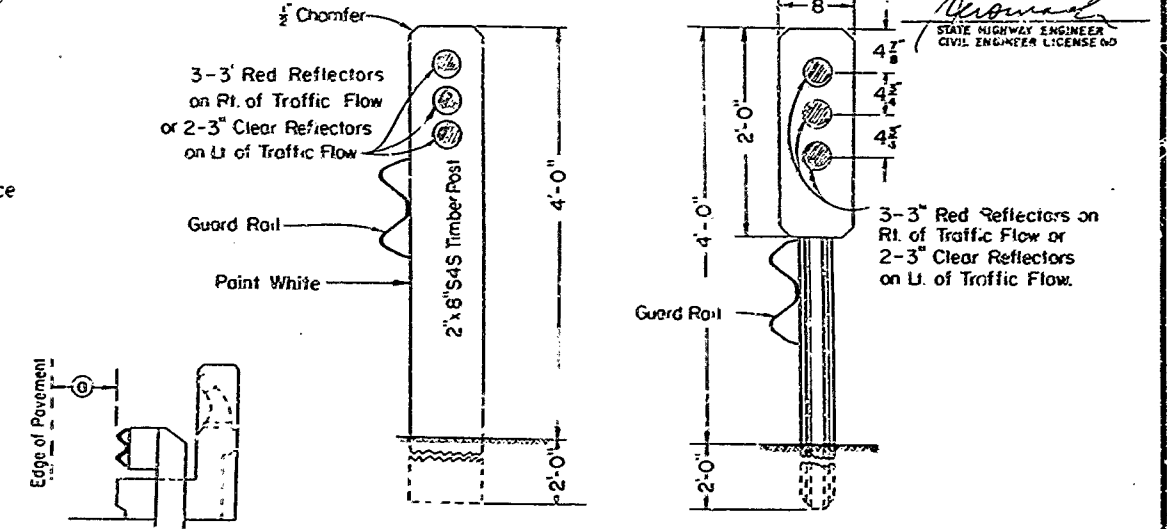
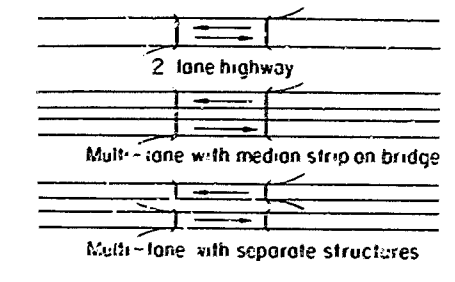
All nuts shown to be hex and placed on outside except rail splice bolts

DOUBLE BLOCKED-OUT METAL BEAM BARRIER



$Y = W \frac{L}{L}$

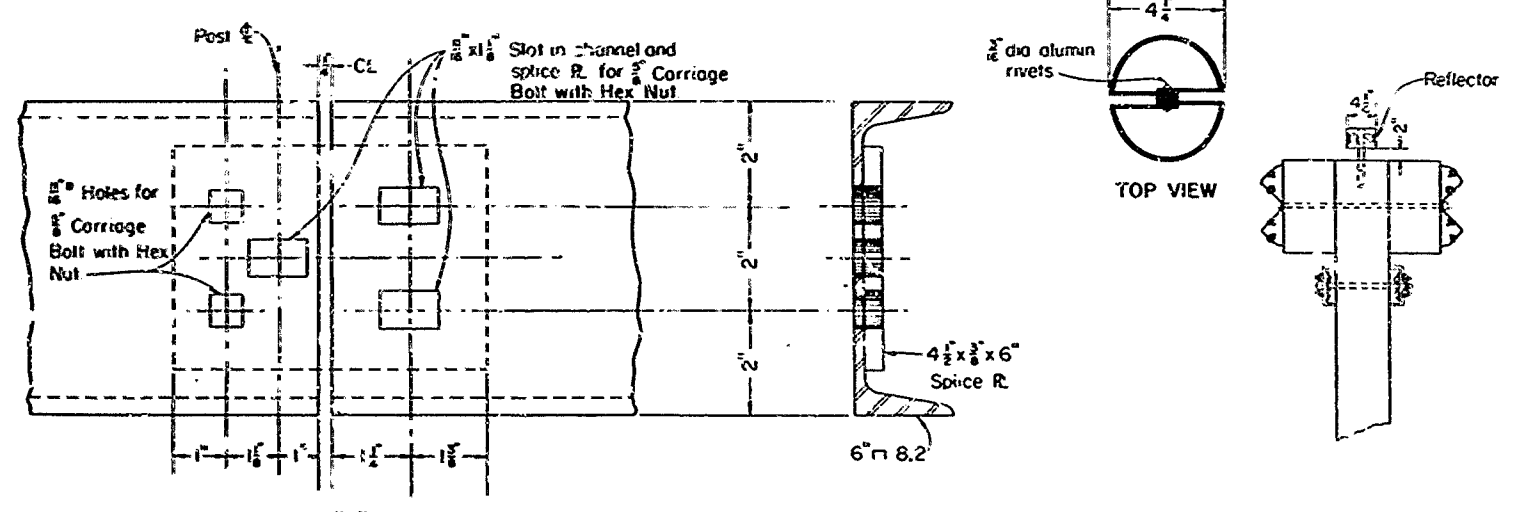
W = Offset from bridge curb to edge of shoulder
 L = Length of guard rail
 X = Distance from beginning of guard rail at bridge
 Y = Offset of each post
 Offset from edge of pavement = Y + a
 (a) = Offset from pavement edge to top of bridge curb face



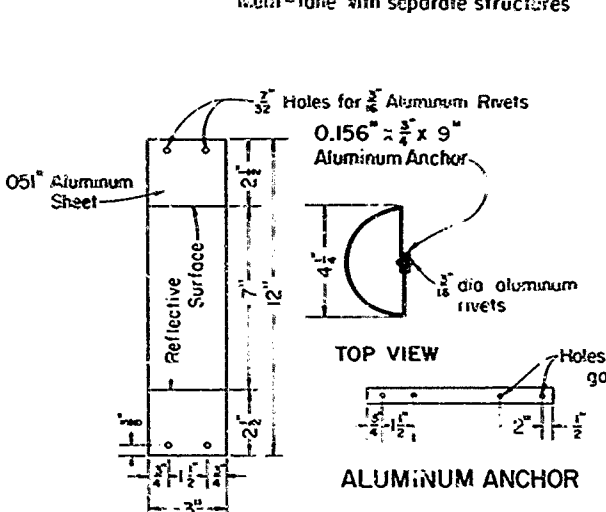
SECTION A-A
 Offset mounting on curb at end of bridge

CLEARANCE MARKER SEC. B-B
 Type L = With Red Reflectors
 Type M = With Clear Reflectors

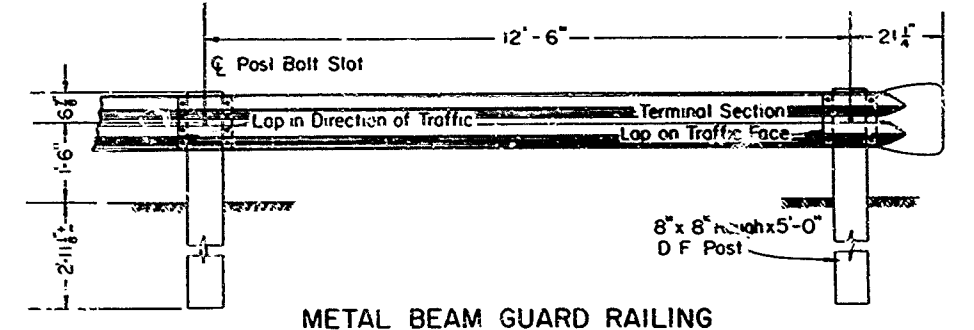
TYPICAL INSTALLATION OF METAL GUARD RAILING AT BRIDGES



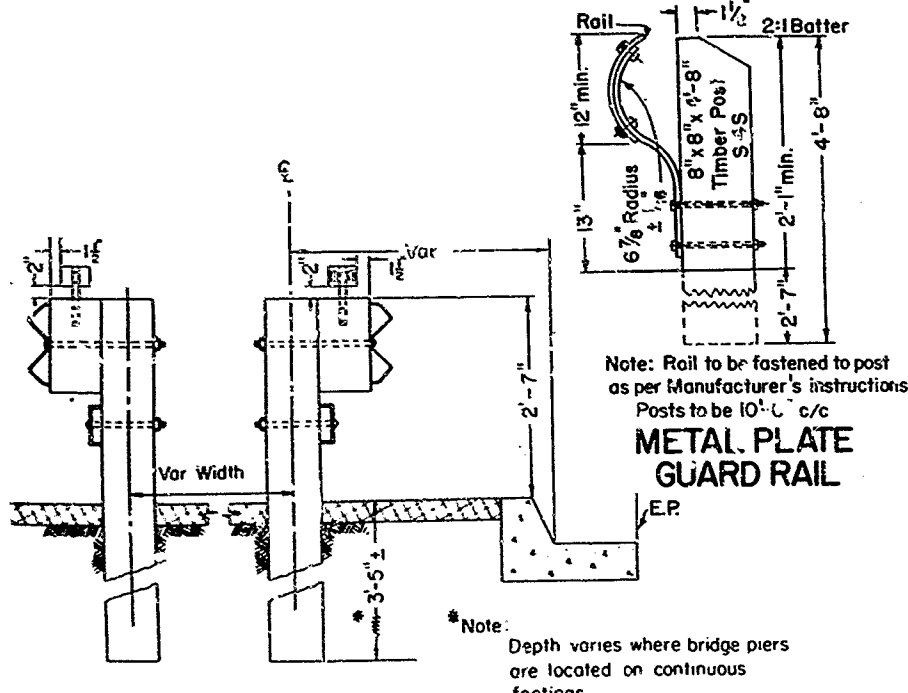
DETAIL "A" OF BOTTOM RAIL SPLICE
 (Rail Splices to occur at Posts only)



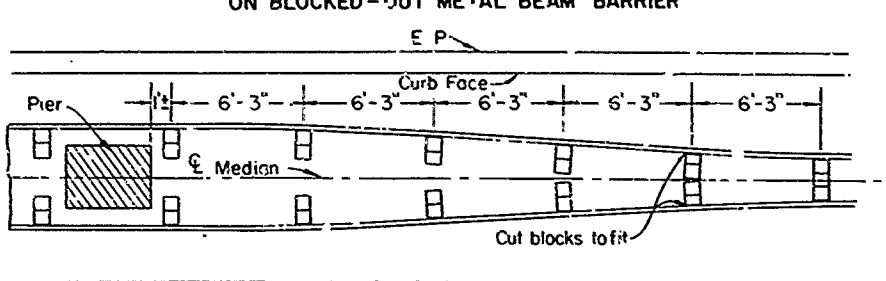
REFLECTOR ASSEMBLY
 ON BLOCKED-OUT METAL BEAM BARRIER



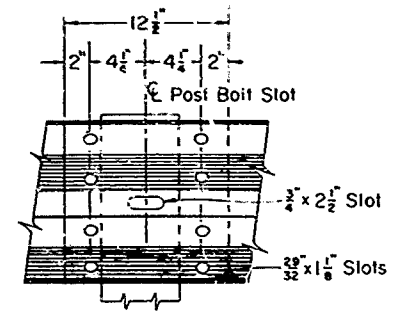
METAL BEAM GUARD RAILING



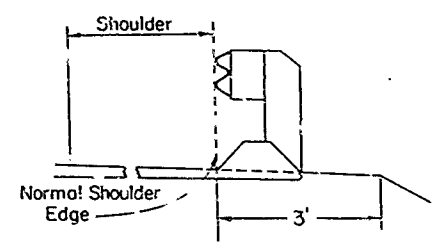
SINGLE BLOCKED-OUT METAL BEAM BARRIER



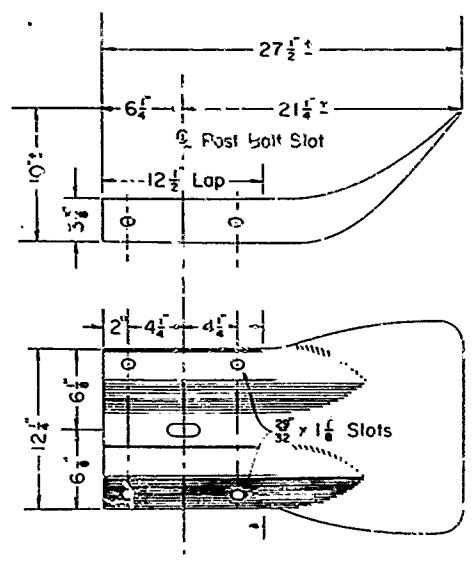
BLOCKED-OUT METAL BEAM BARRIER
 PLAN AT BRIDGE PIERS



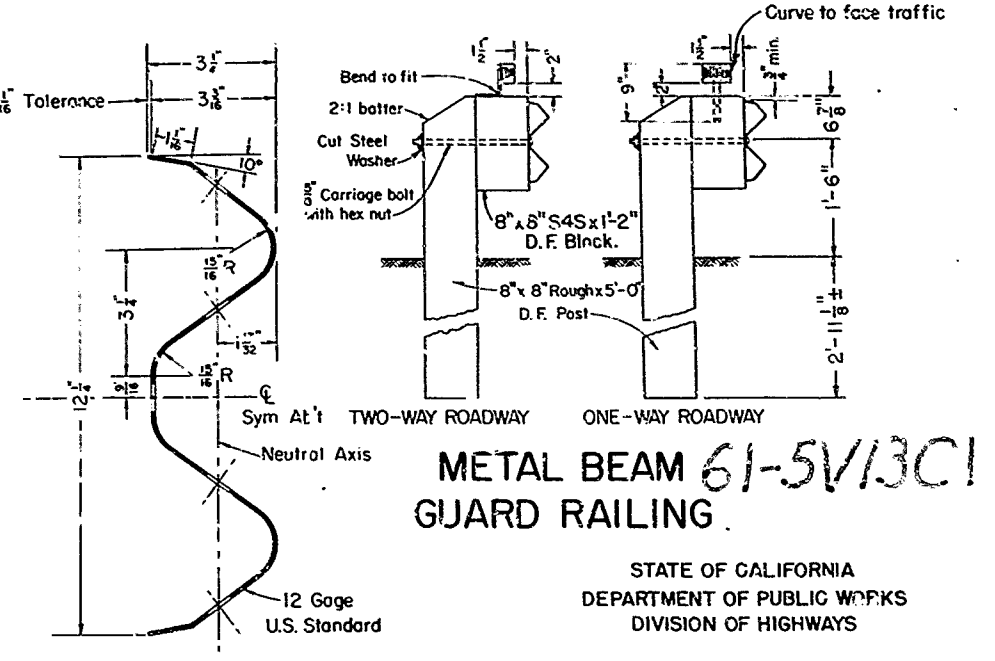
RAIL SPLICE
 All nuts shall be hexagonal



METAL GUARD RAILING AT DIKE
 (For Dike Detail see Standard Plan A74)



TERMINAL SECTION



SECTION THRU RAIL ELEMENT

METAL BEAM 61-5V13C11 GUARD RAILING

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

GUARD RAILING & BARRIER RAILING A77-2

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50200536

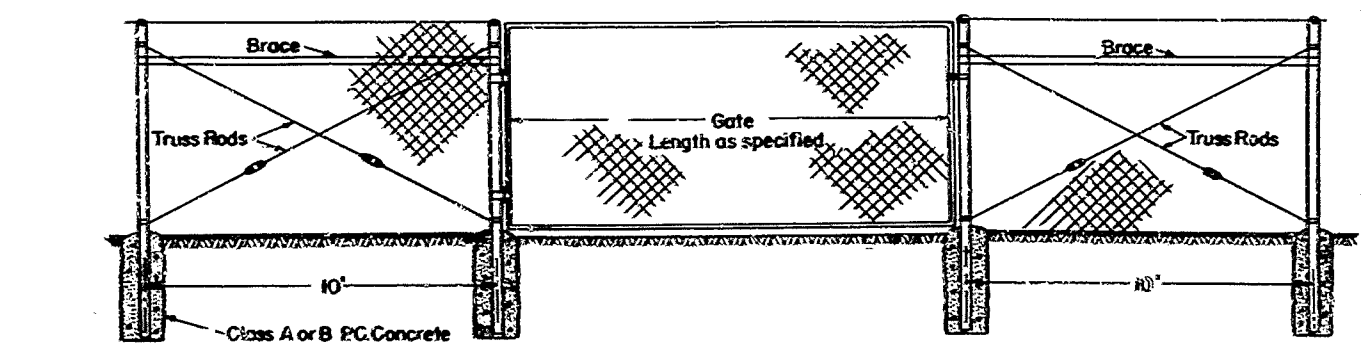
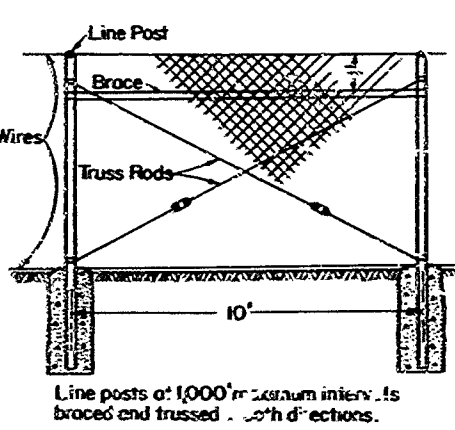
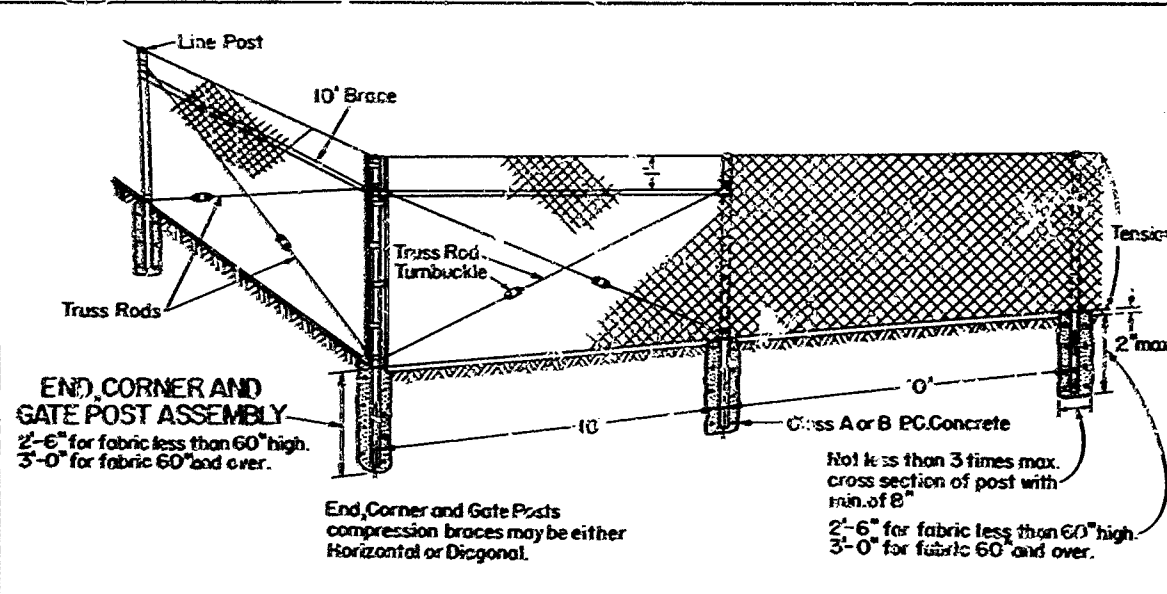
80

FED. DISTRICT	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			81	274

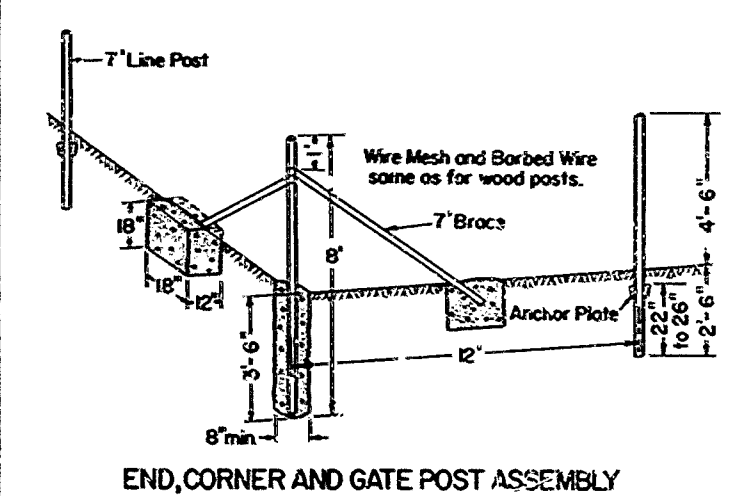
As accessory plans dated August 15, 1960
 DISTRICT COUNTY ROUTE SECTION
 1 08, 510 2 L 5113C-1 F 81 137

APPROVAL RECOMMENDATION
 [Signature]
 MEMBER OF DESIGN
 QUAL. CONTROL BOARD LICENSE NO. 5430
 APPROVED AUGUST 7, 1959
 [Signature]
 LICENSE NO. 3044

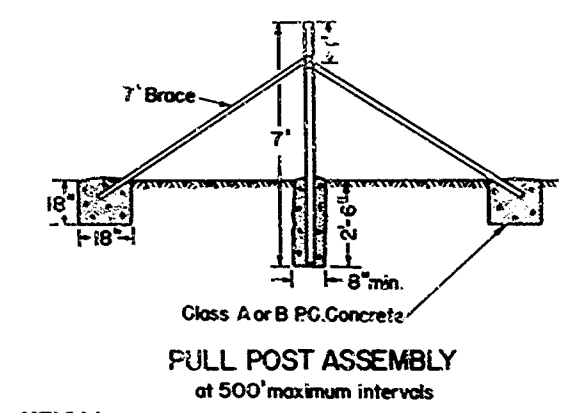
81



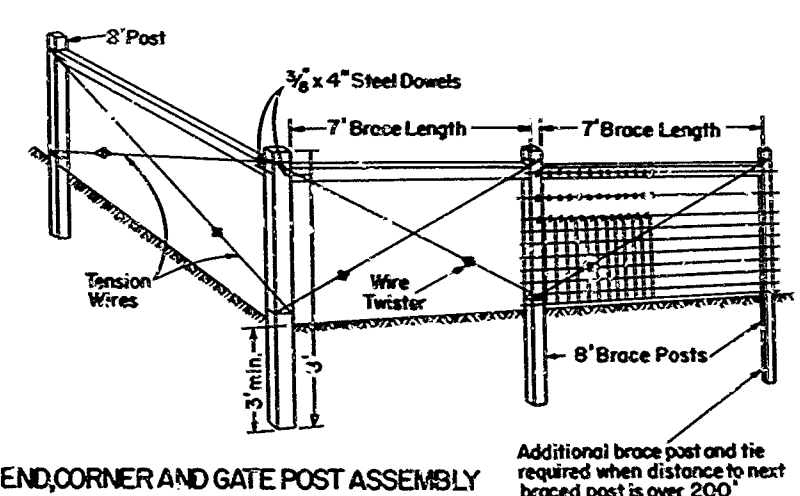
Type CL-4 = 48" fabric
 Type CL-6 = 72" fabric
CHAIN LINK FENCE
 FREEWAY OR PROPERTY



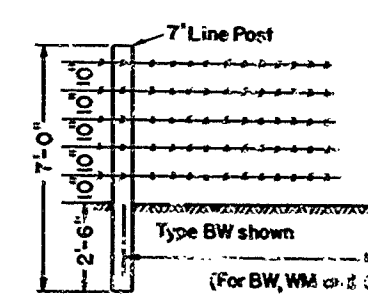
METAL POST INSTALLATION



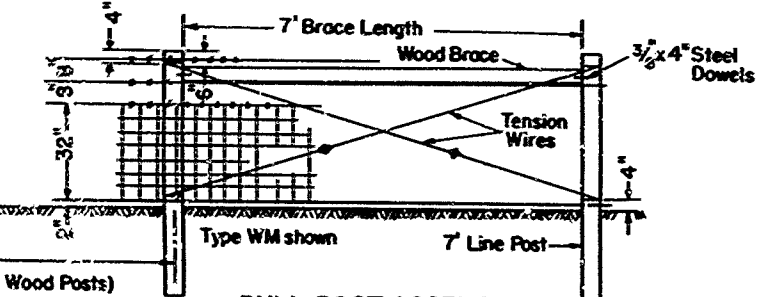
PULL POST ASSEMBLY
 at 500' maximum intervals



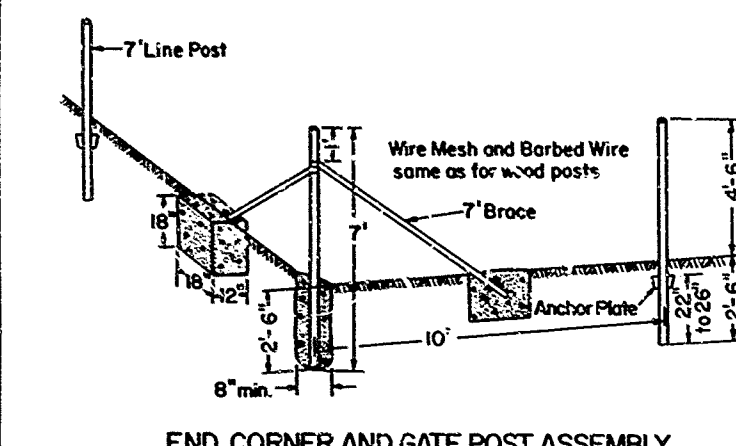
FREEWAY FENCE
 Type BW = 5 lines of barbed wire.
 Type WM = Wire mesh and 3 lines of barbed wire.



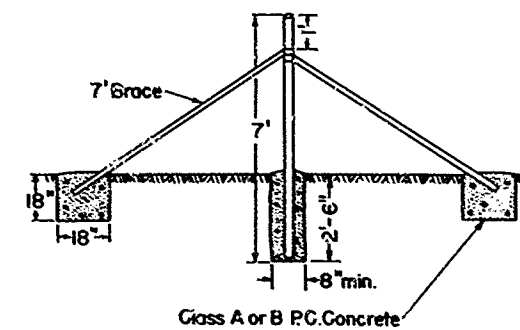
WOOD POST INSTALLATION



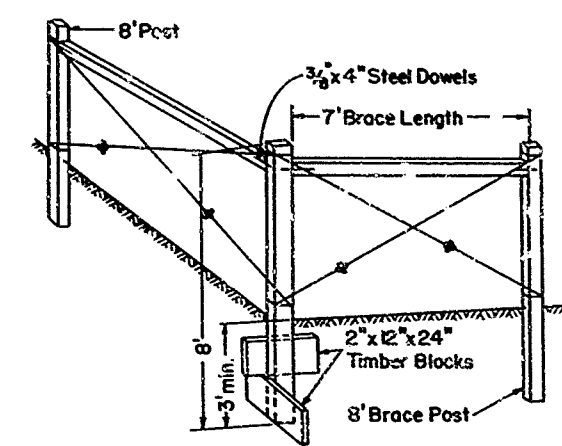
PULL POST ASSEMBLY
 at 500' maximum intervals
 (for both BW and WM)



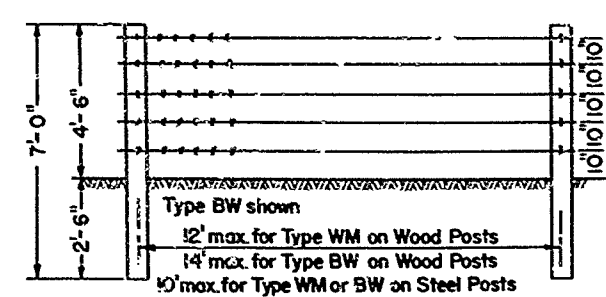
END, CORNER AND GATE POST ASSEMBLY



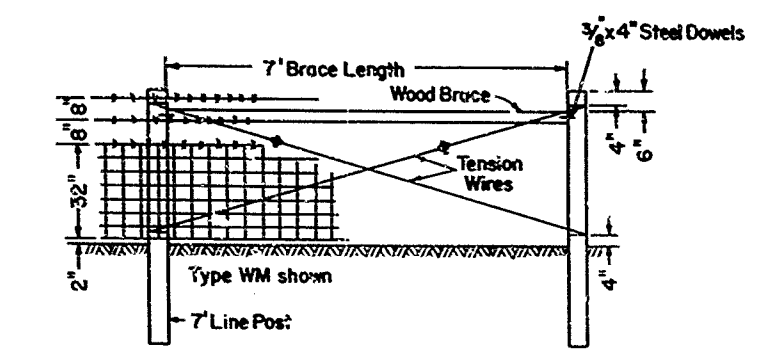
PULL POST ASSEMBLY
 at 500' maximum intervals



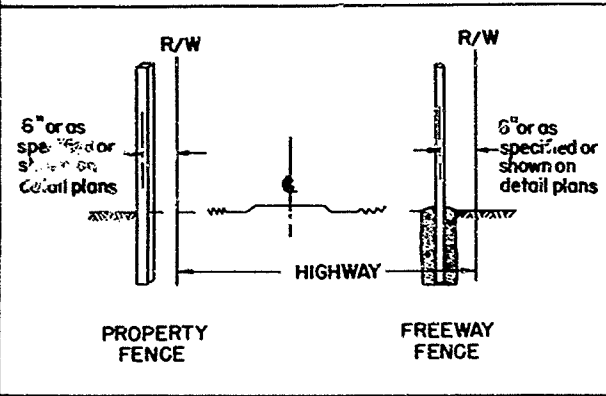
END, CORNER AND GATE POST ASSEMBLY



LINE POSTS



PULL POST ASSEMBLY
 at 1000' maximum intervals
 (for both BW and WM)



METAL POST INSTALLATION

Type BW = 5 lines of barbed wire.
 Type WM = Wire mesh and 3 lines of barbed wire.
PROPERTY FENCE

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

WOOD POST INSTALLATION

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
STANDARD FENCES

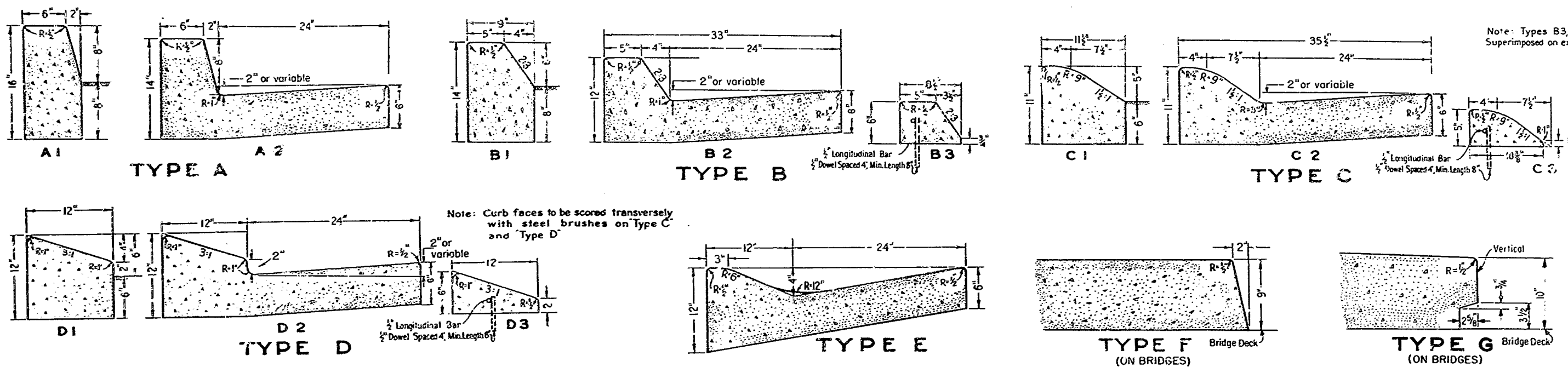
To accompany Plans dated August 15, 1960

Note: Types B3, C3, D3 Superimposed on existing pavement
 DISTRICT COUNTY ROUTE SECTION SHEET NO. TOTAL SHEETS
 V SB, SLO 2 L, S, M, S, F 82 137

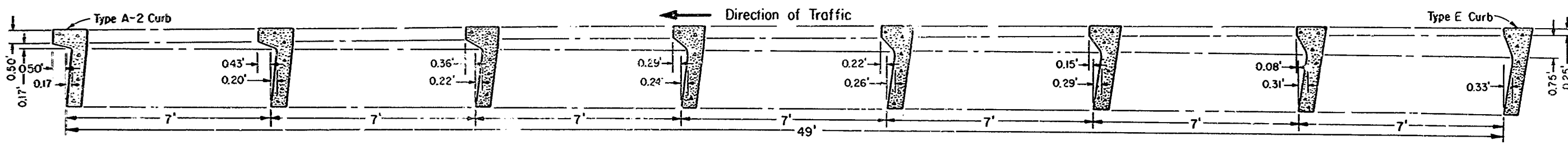
Approval Recommended *J. Laanen*
 Engineer of Design
 Civil Engineer License No. 5630

Approved *March 5, 1960*

G. M. M. M.
 State Highway Engineer
 Civil Engineer License No. 2084

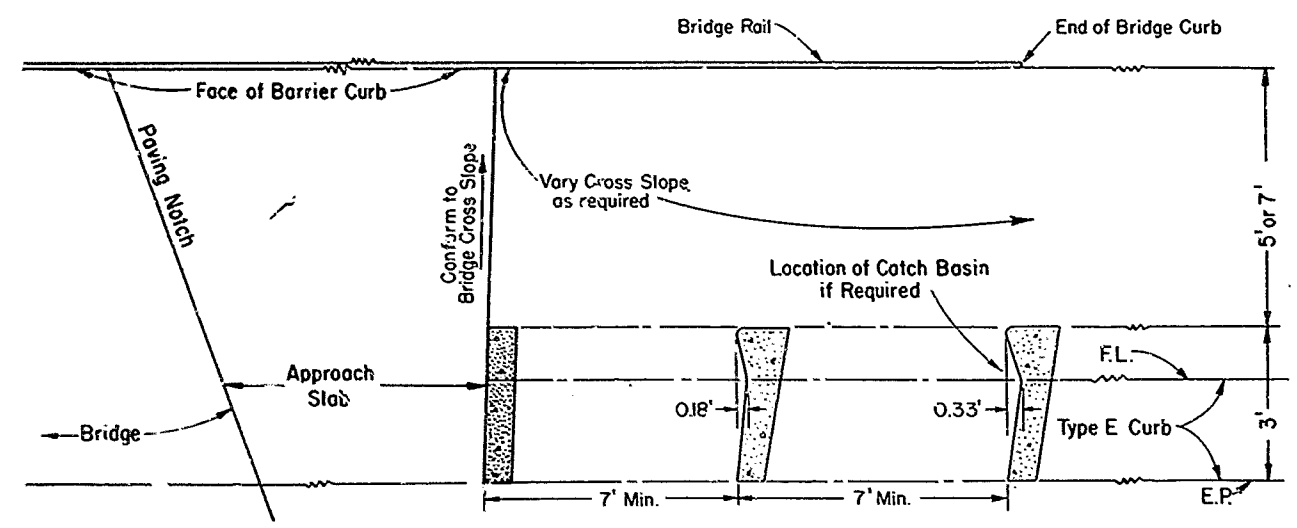


CURB QUANTITIES			
Type	C.Y. Per Lin. Ft.	Type	C.Y. Per Lin. Ft.
A1	0.03084	C2	0.06457
A2	0.06379	C3	0.09965
B1	0.02930	D1	0.03073
B2	0.06171	D2	0.06782
B3	0.01074	D3	0.01223
C1	0.02752	E	0.06661

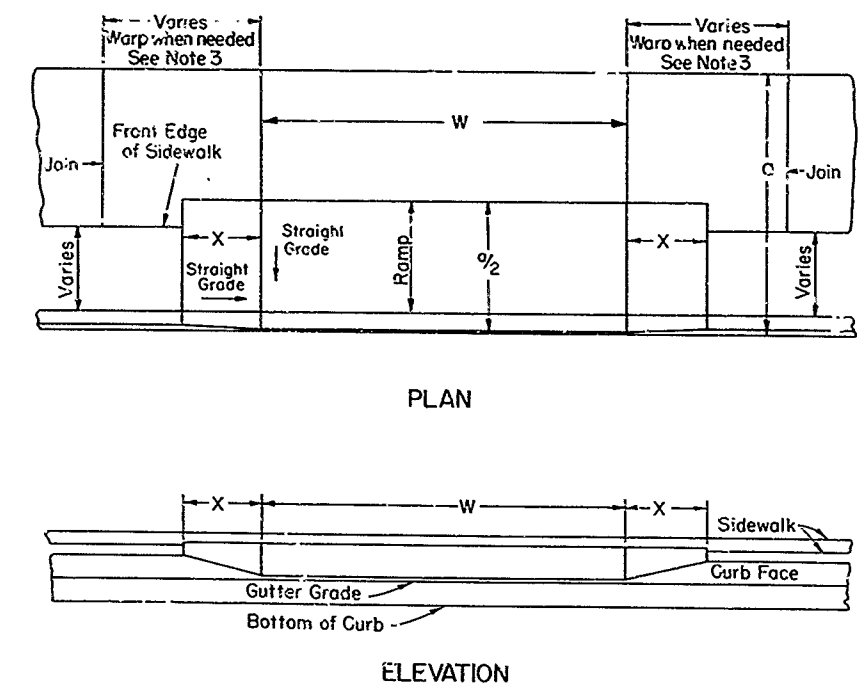


STANDARD CURB TRANSITION - TYPE E TO TYPE A-2

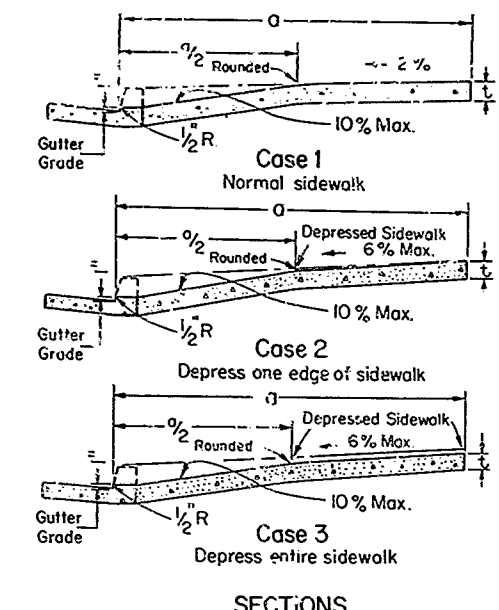
Note: Straight Line Transition in Flow Line and Top of Curb unless otherwise ordered by Engineer.



FLOW LINE TRANSITION - TYPE E AT STRUCTURE

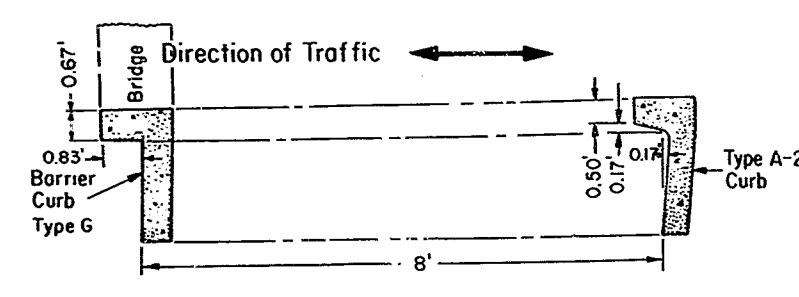


DRIVEWAYS

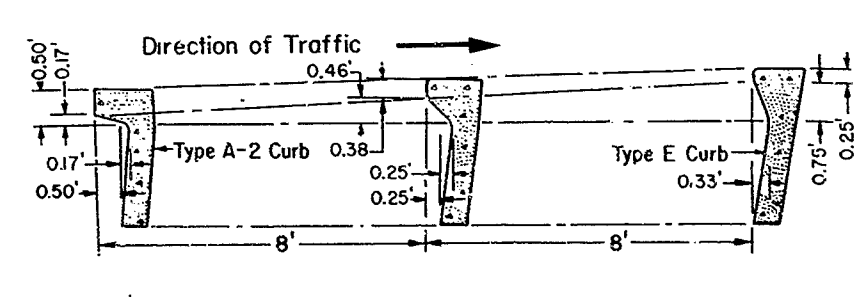


NOTES:

- Case 1 normally applies
- Use Case 2 when ramp slopes would exceed 10% in Case 1.
- Use Case 3 when sidewalk slope would exceed 6% in Case 2. Longitudinal slope of warped area adjacent to driveway shall not vary more than 6% from the longitudinal grade line of the sidewalk.
- X=3'-0" except for curb heights over 10" where 4:1 slopes shall be used on curb slope.
- Sidewalk and ramp thickness shall be 4" for residential and 6" for commercial.
- Difference in slope of the driveway ramp and the slope of a line between the gutter and a point on the roadway 5 feet from the gutter line shall not exceed 15%. Reduce driveway ramp slope, not gutter slope, where required.



CURB TRANSITION - TYPE A-2 TO TYPE G



CURB TRANSITION - TYPE A-2 TO TYPE E
 (See Note)

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

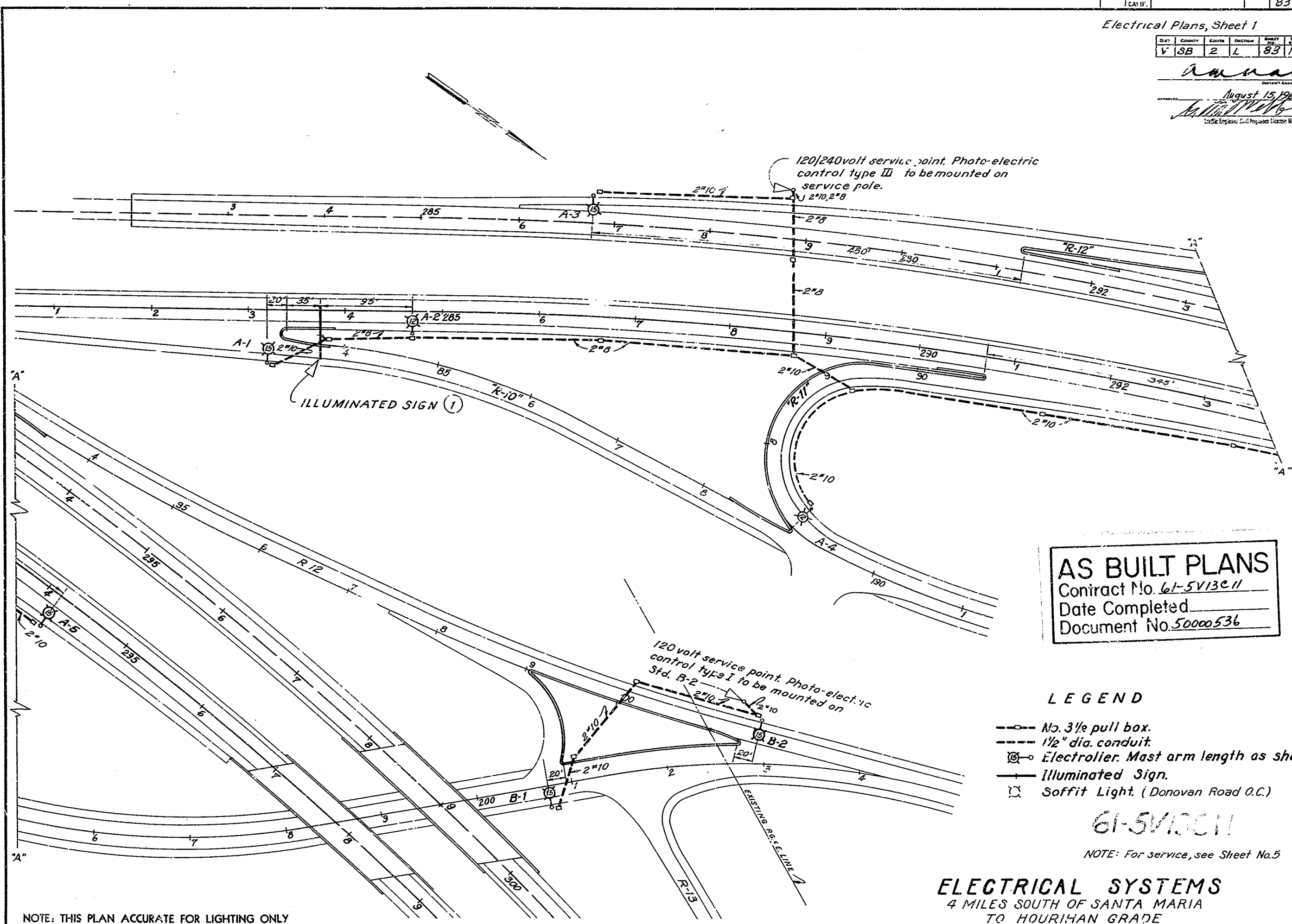
STANDARD CURBS AND DRIVEWAYS

R.P. No.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CA			83	204

Electrical Plans, Sheet 1

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	2	L	83	137

Amnash
 August 15, 1960
 License No. 517



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

- LEGEND**
- No. 3/8 pull box.
 - 1/2" dia. conduit.
 - ⊗ Electrolite. Mast arm length as shown.
 - Illuminated Sign.
 - Soffit Light. (Donovan Road O.C.)

61-5V13C11
 NOTE: For service, see Sheet No. 5

ELECTRICAL SYSTEMS
 4 MILES SOUTH OF SANTA MARIA
 TO HOURIHAN GRADE
 SOUTH SANTA MARIA U.C. 50295

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

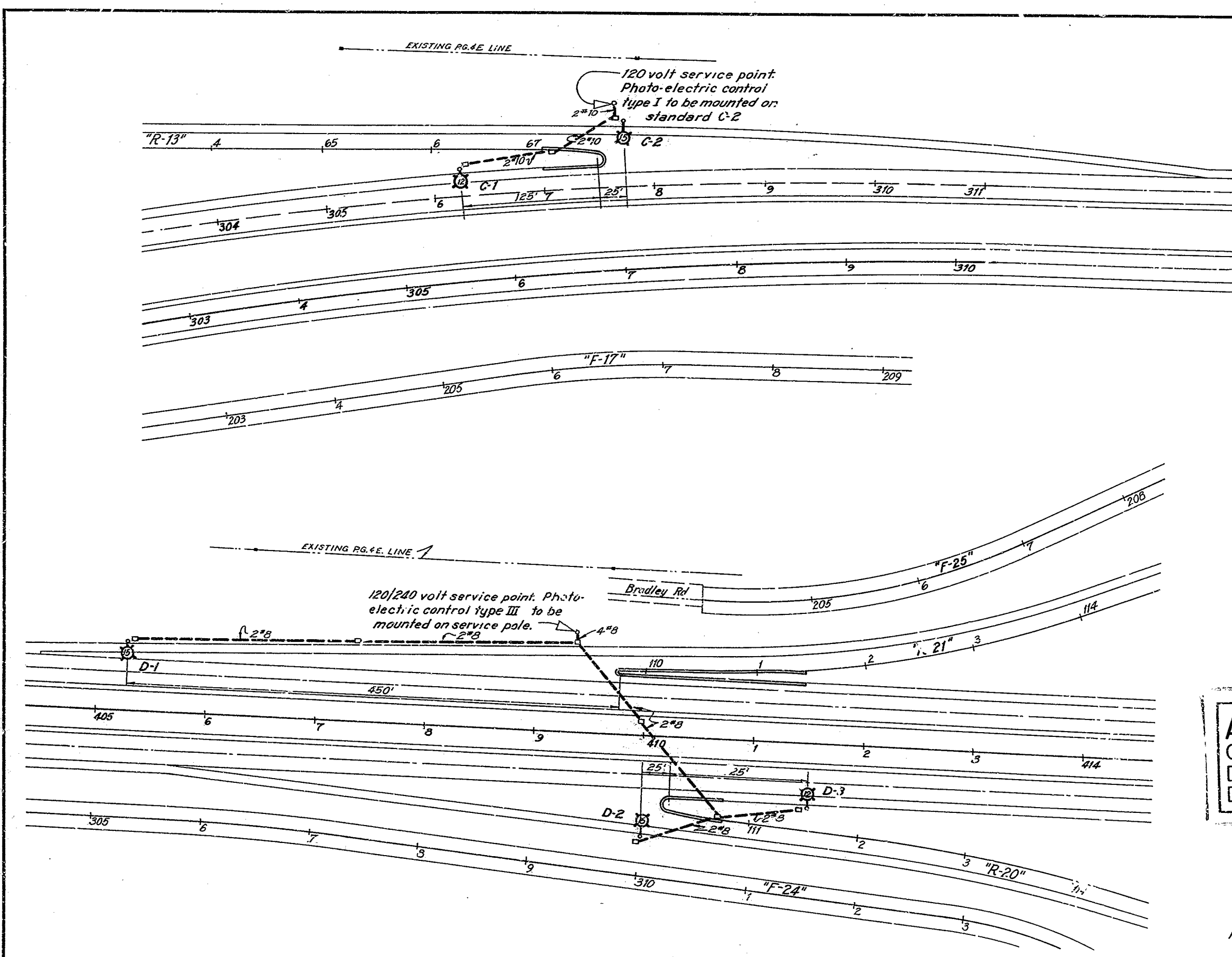
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL REQUIRED BY	DATE
J. E. Dwyer	2/60	<i>[Signature]</i>	3/60	<i>[Signature]</i>	3/60

F.P.D. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			84	204

Electrical Plans Sheet 2

Dist.	Quantity	Notes	Section	Sheet No.	Total Sheets
V	SB	2	L	84	137

Amvash
August 15, 1960



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

NOTE: For service, see Sheet No. 5

61-5V13C11

ELECTRICAL SYSTEMS
FOUR MILES SOUTH OF SANTA MARIA TO HOURIHAN GRADE

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

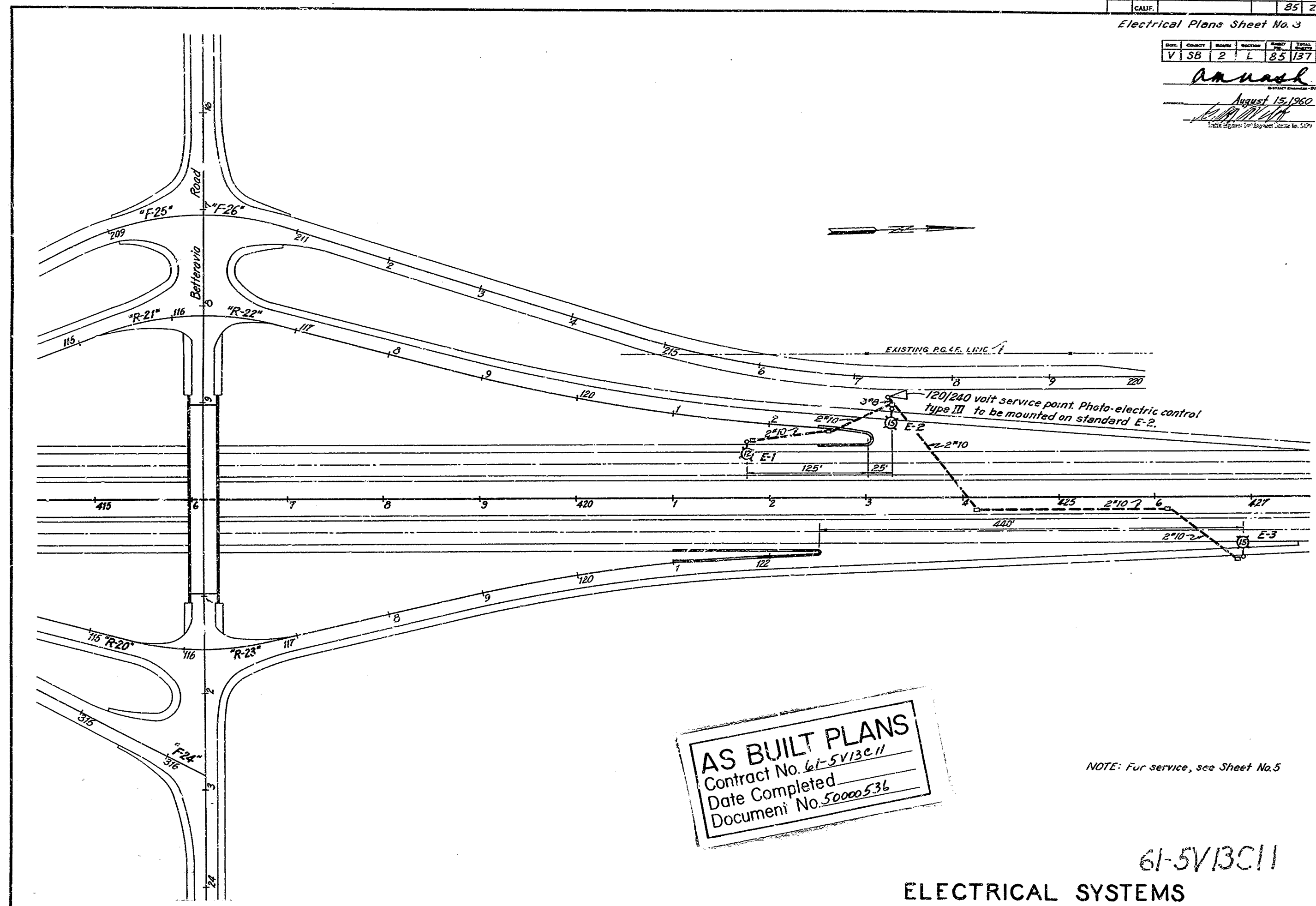
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	R. A. [Signature]	7/60

S.F. No.	STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
10	CALIF.			85	204

Electrical Plans Sheet No. 3

Dist.	County	Route	Station	Sheet No.	Total Sheets
V	SB	2	L	85	137

Amnash
 August 15, 1960
 Electrical Engineer - State of California



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

NOTE: For service, see Sheet No. 5

61-5V13C11

ELECTRICAL SYSTEMS
 FOUR MILES SOUTH OF SANTA MARIA TO HOURIHAN GRADE

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

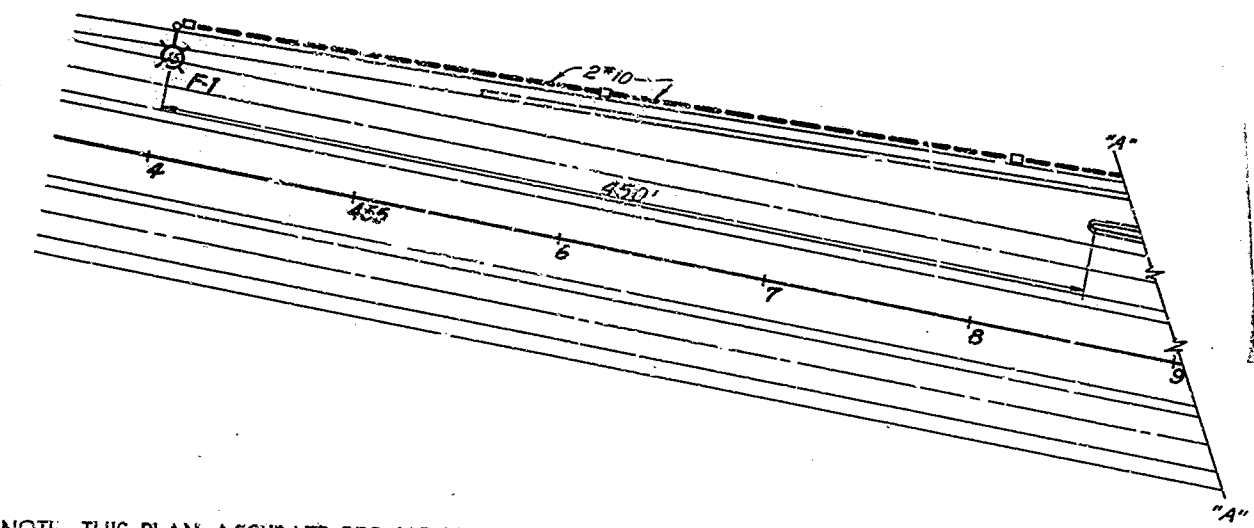
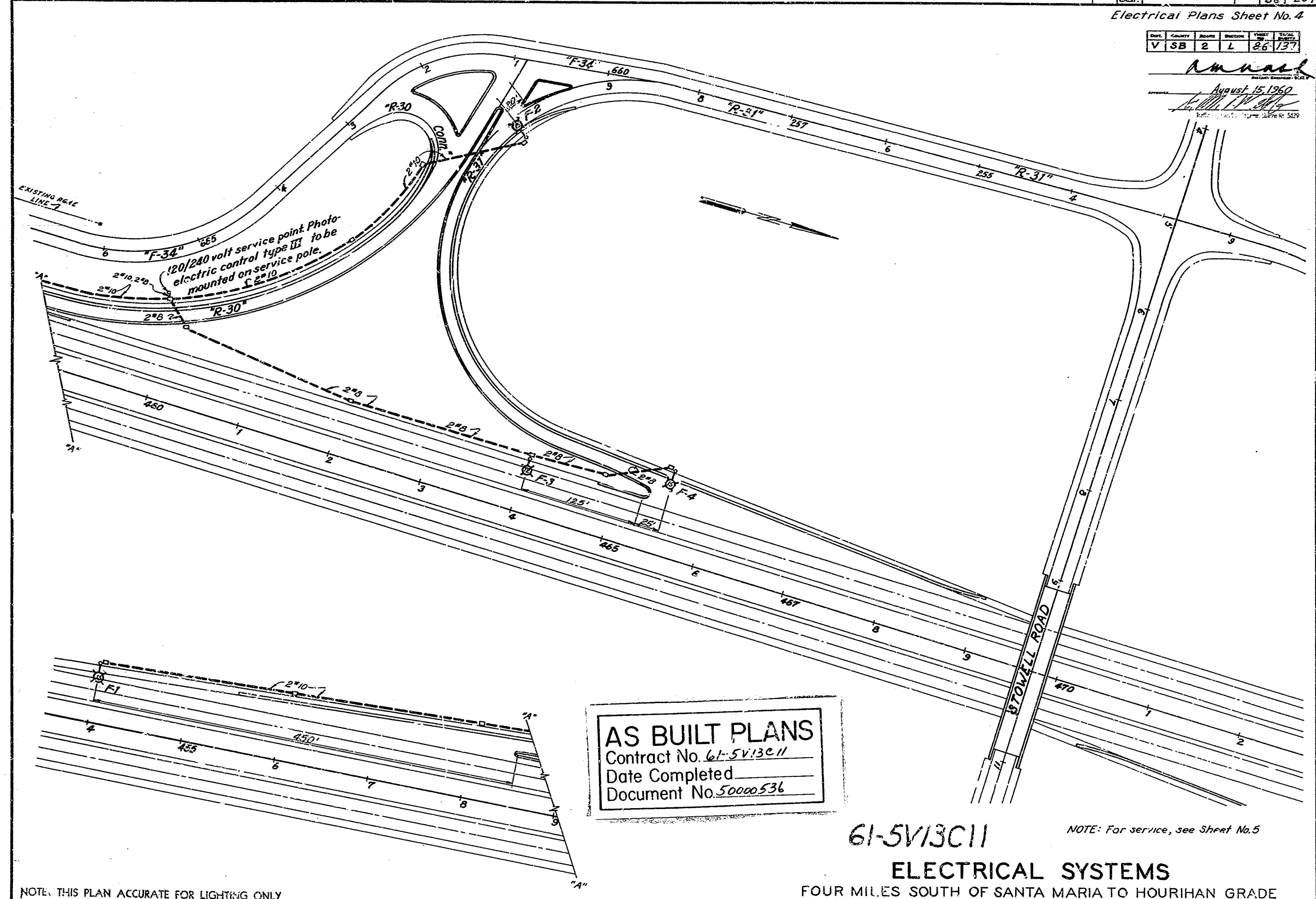
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
A. E. Douglas	7/60	<i>[Signature]</i>	7/60	A. E. Douglas	7/60

F.P.A. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			86	204

Electrical Plans Sheet No. 4

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL MILES
V	SB	2	L	86	137

Amual
 August 15, 1960
 [Signature]



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11

NOTE: For service, see Sheet No. 5

ELECTRICAL SYSTEMS
 FOUR MILES SOUTH OF SANTA MARIA TO HOURIHAN GRADE

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

DESIGNER	DATE	DESIGN REVISION	DATE	APPROVED BY	DATE
A. E. Dwyer	7/60	[Signature]	7/60	[Signature]	7/60

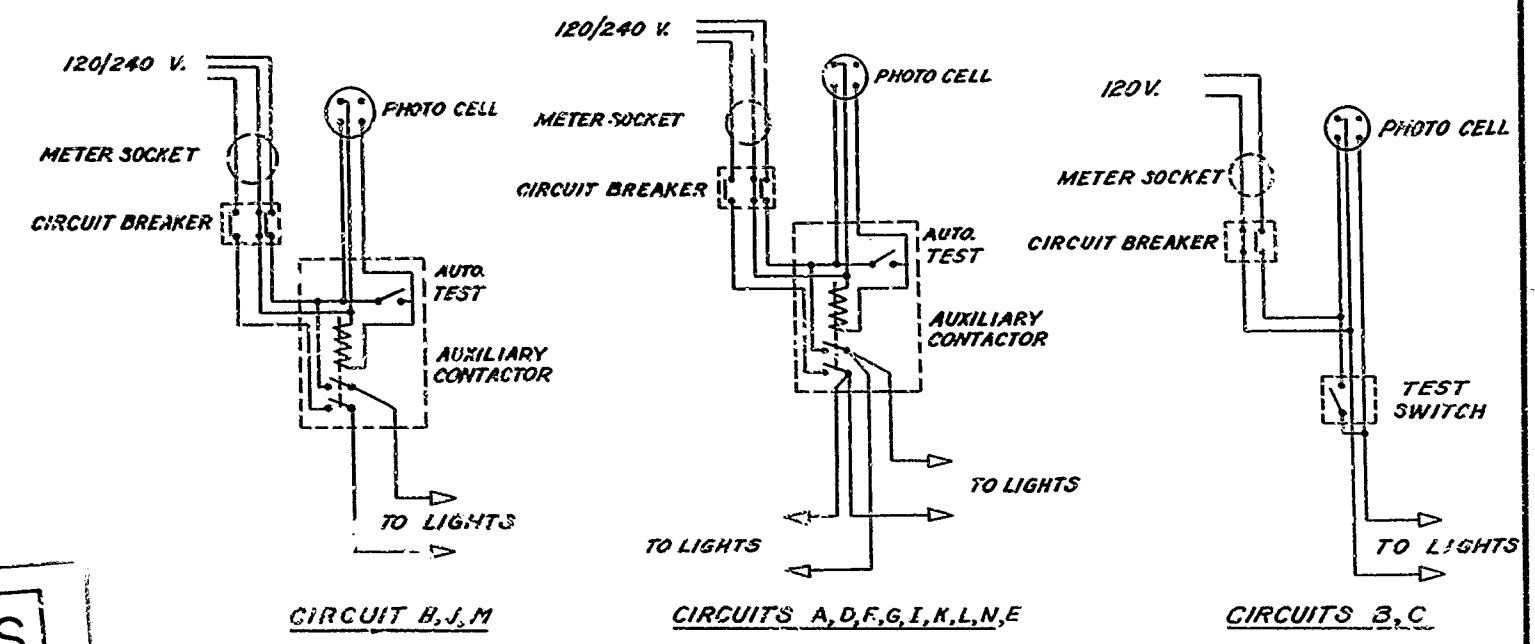
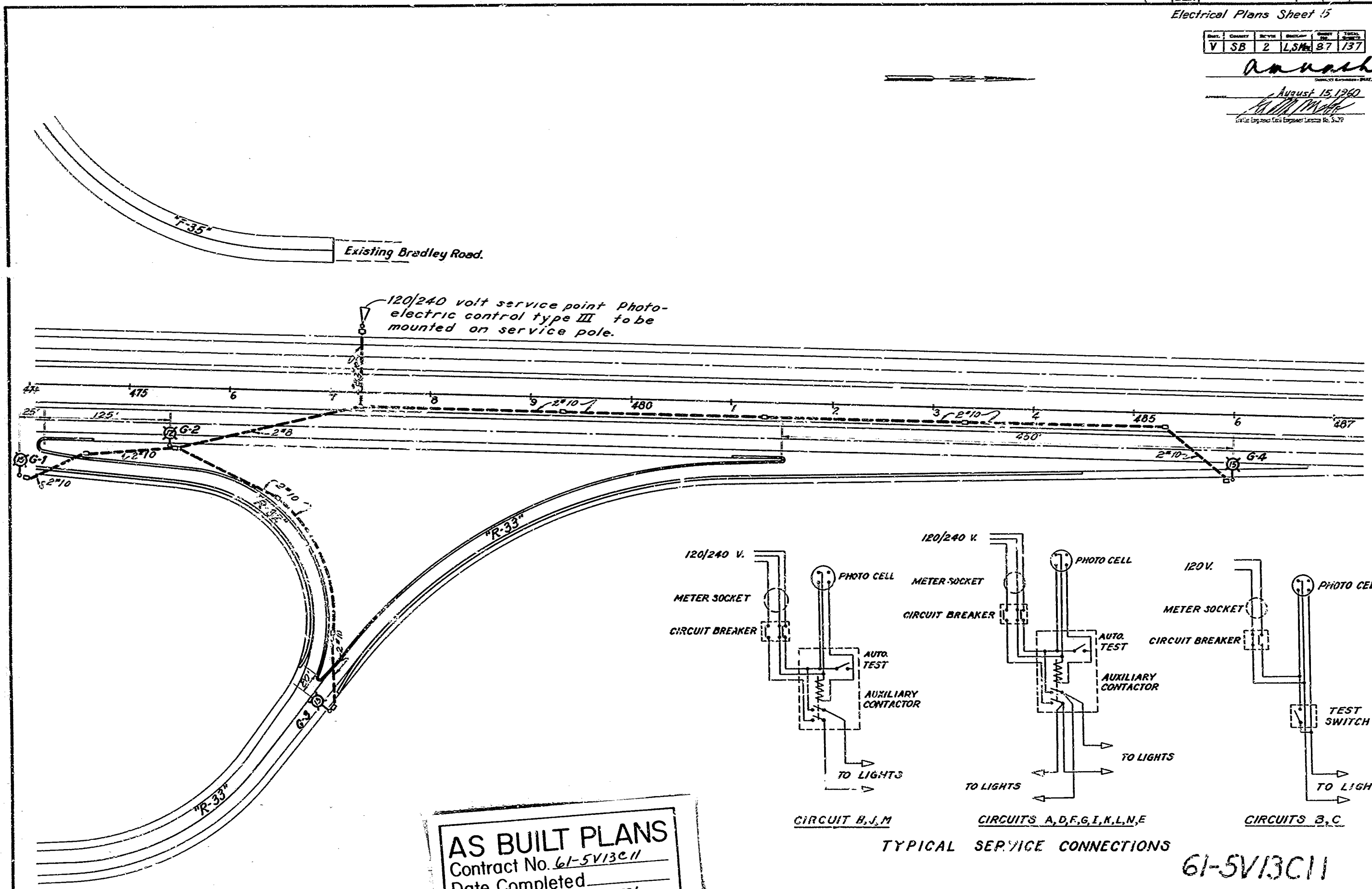
STOWELL ROAD O.C. 50V 249

Electrical Plans Sheet 15

Dist.	County	Section	Block	Sheet
V	SB	2	LSM	87 137

Amash
 August 15 1960
W. H. Moore
 Civil Engineer License No. 5,279

87



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

ELECTRICAL SYSTEMS
 4 MILES SOUTH OF SANTA MARIA
 TO HOURIHAN GRADE

61-5V13C11

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	DATE
J.E. Dryden	2/60	W.H. Moore	3/60	R.L. Johnson	3/60

87

STONELL ROAD O.C.

50' x 10'

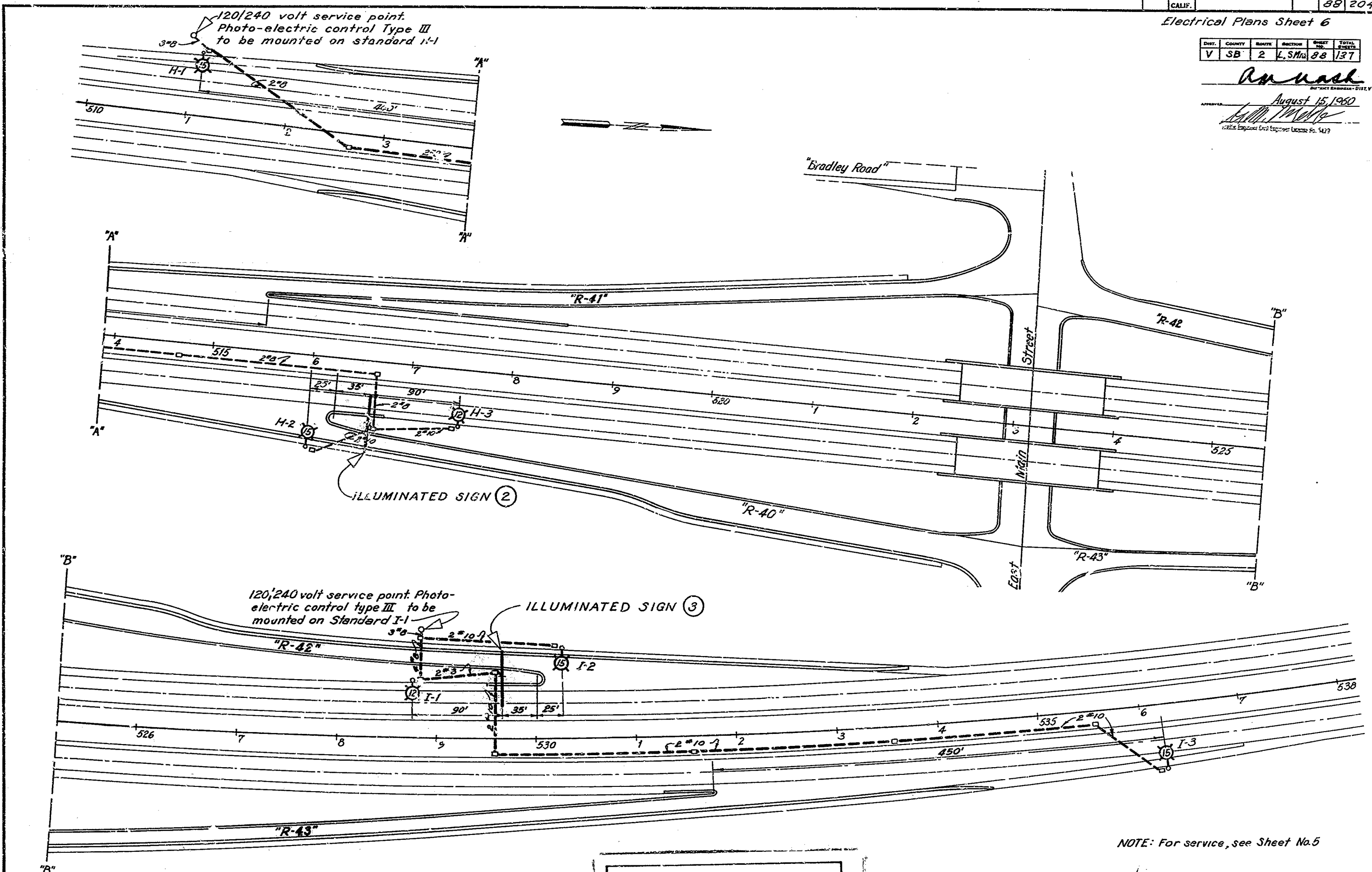
STATE	FEDERAL PROJECT No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
CALIF.			88	204

Electrical Plans Sheet 6

Dist.	County	Route	Station	Sheet	Total
V	SB	2	L. 510	88	137

Amnash
 August 15, 1960
 License Engineer No. 5479

28



NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J.E. Dwyer	7/60	[Signature]	7/60	[Signature]	[Signature]	7/60

AS E JILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

NOTE: For service, see Sheet No. 5
 61-5V13C11
ELECTRICAL SYSTEMS
 4 MILES SOUTH OF SANTA MARIA
 TO HOURIHAN GRADE
 MAIN STREET U.C. 3-0V269

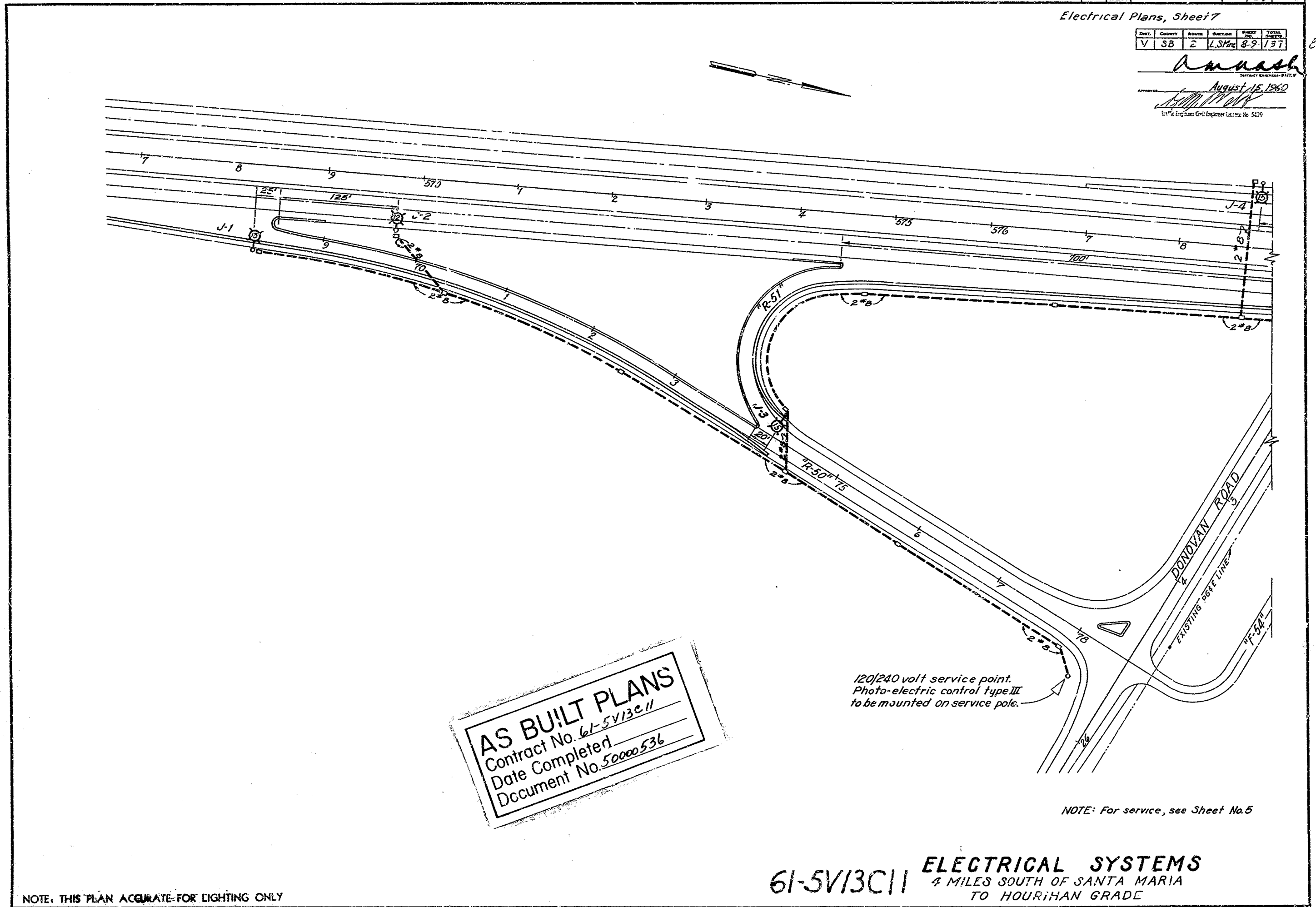
88

S.P. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			89	204

Electrical Plans, Sheet 7

DIST.	COUNTY	ROUTE	SECTION	POST MILES	DATE
V	SB	2	2.37	8.9	1937

Amash
 August 15, 1960
 License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

120/240 volt service point.
 Photo-electric control type III
 to be mounted on service pole.

NOTE: For service, see Sheet No. 5

61-5V13C11 ELECTRICAL SYSTEMS
 4 MILES SOUTH OF SANTA MARIA
 TO HOURIHAN GRADE

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL AUTHORIZED BY	DATE
J. C. Dwyer	7/60	A. H. [unclear]	7/60	A. H. [unclear]	7/60

DONOVAN ROAD O.C.

501249

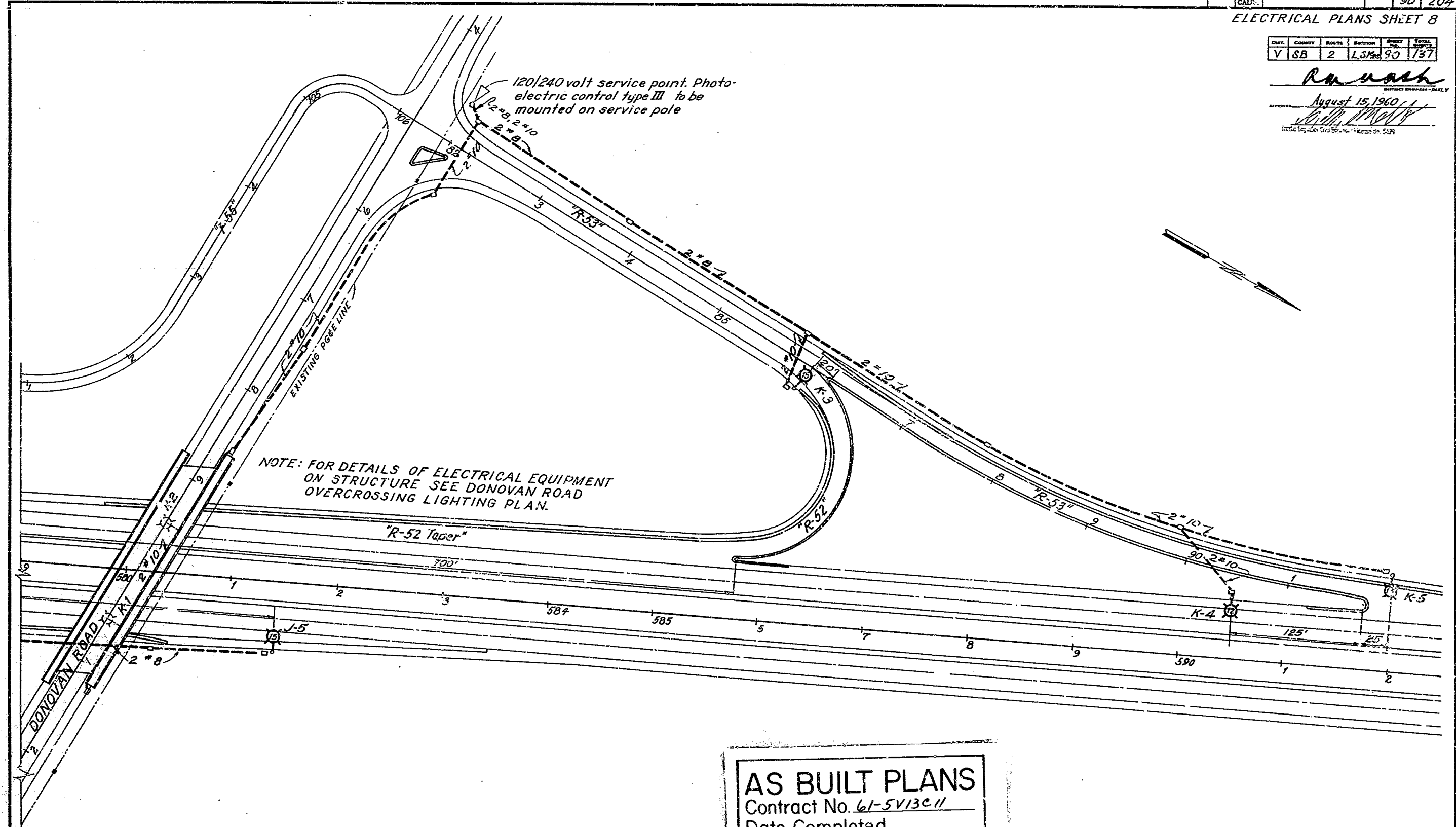
FORM 1123 (REV. 10-15-59)

F.P. DIV. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CAU.			90	204

ELECTRICAL PLANS SHEET 8

Dist.	County	Route	Section	Sheet	Total
V	SB	2	L.S.M.	90	137

R. W. Nash
 August 15, 1960
[Signature]
 Licensed Professional Engineer - Electrical



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

NOTE: For service, see Sheet No. 5

61-5V13C11
ELECTRICAL SYSTEMS
 4 MILES SOUTH OF SANTA MARIA
 TO HOURIHAN GRADE

DONOVAN ROAD O.C. 501269

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	7/60	[Signature]	R. A. [Signature]	7/60

90

F.P.A.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	APPROX. DATE	TOTAL SHEETS
	CALIF.			91	204

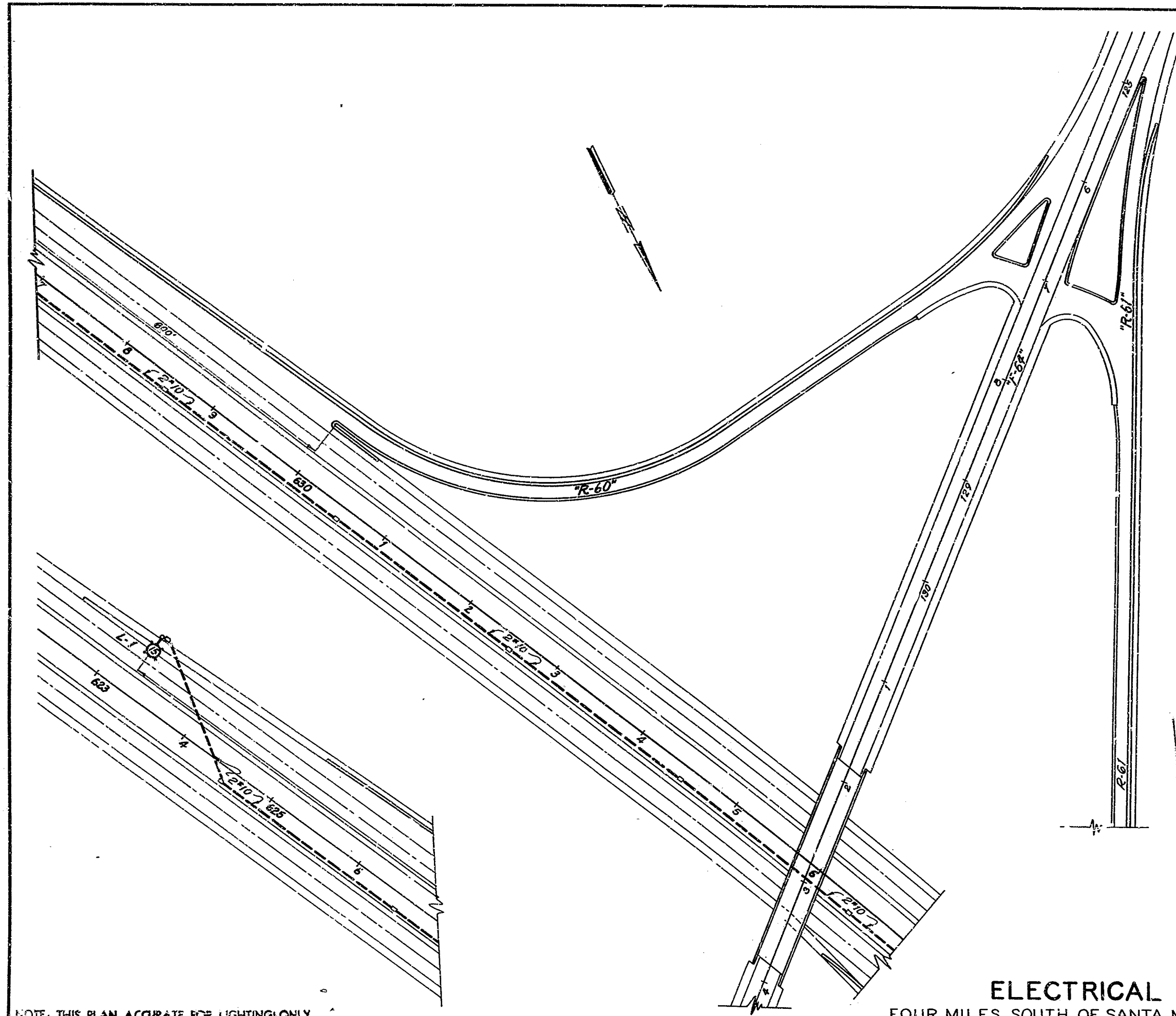
ELECTRICAL PLANS SHEET 9

DATE	CHECKED	DESIGNED	APPROVED	SCALE	NO. OF SHEETS
V	SB	2		91	177

Amnash

August 15, 1960

[Signature]
Traffic Engineer License No. 5429



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

NOTE: For service, see Sheet No. 5

61-5V13C11

ELECTRICAL SYSTEMS
FOUR MILES SOUTH OF SANTA MARIA TO HOURIHAN GRADE

NORTH SANTA MARIA D.C.

50V249

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Rydman	7/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	7/60

91

91

9

F.P.D. DISTRICT	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.				92	204

ELECTRICAL PLANS SHEET 10

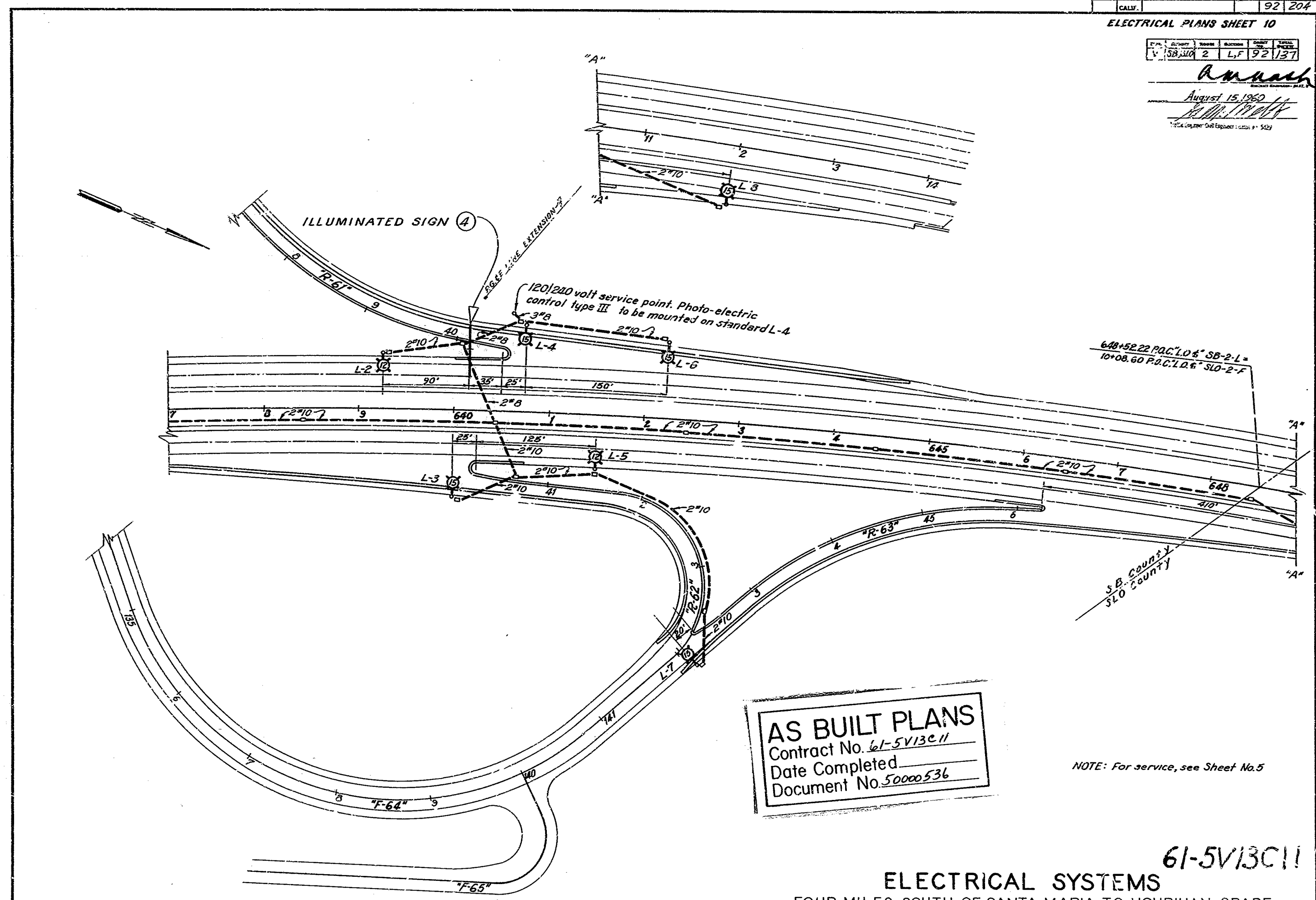
DATE	BY	REVISION	DATE
8/15/60	AM	2	9/2/67

Amnash

August 15, 1960

1004 Engineer 500 Engineer License No. 527

92



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

NOTE: For service, see Sheet No. 5

ELECTRICAL SYSTEMS
 61-5V13C11
 FOUR MILES SOUTH OF SANTA MARIA TO HOURIHAN GRADE

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

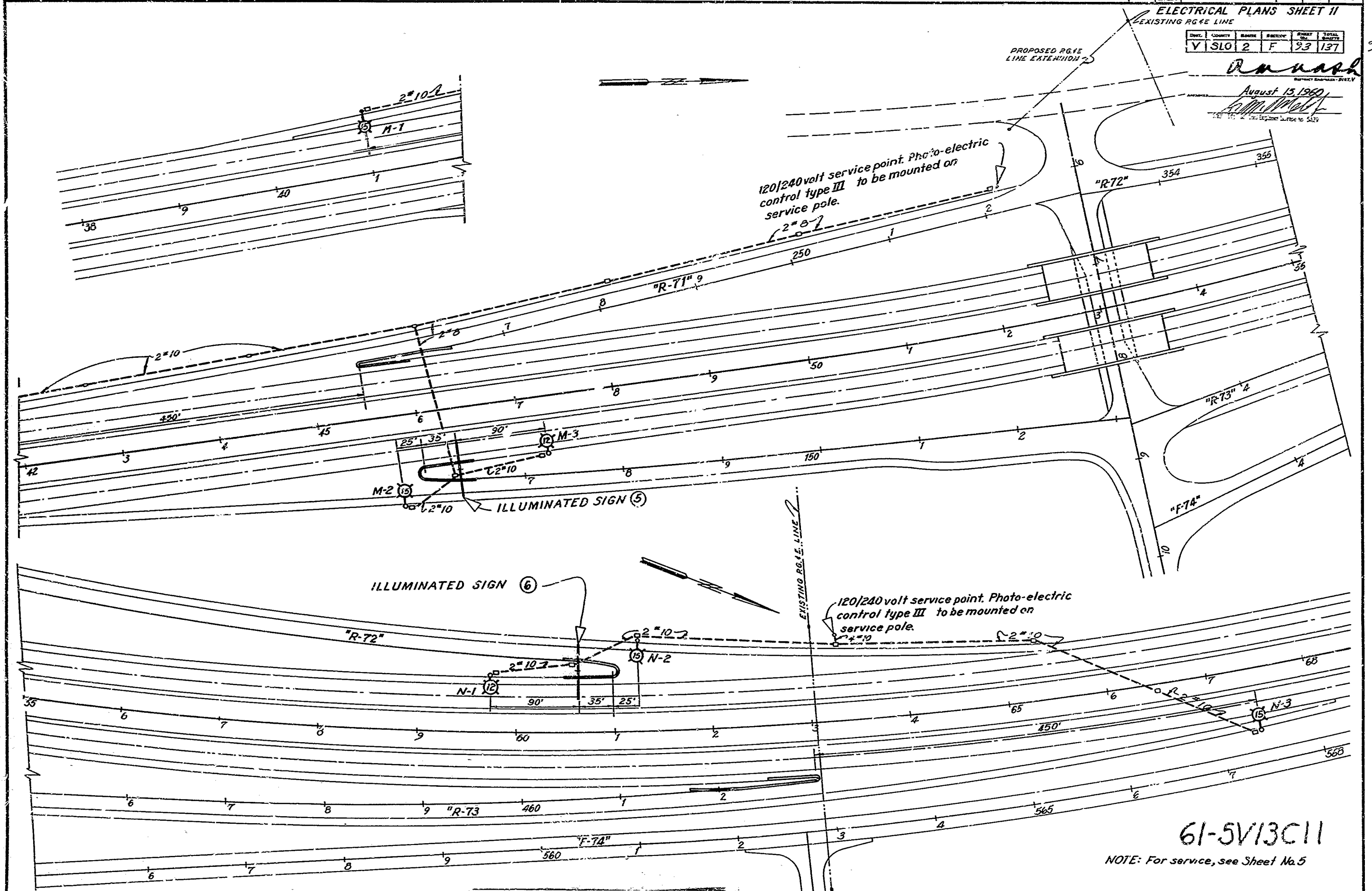
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. C. Dwyer	2/60	<i>[Signature]</i>	2/60	<i>[Signature]</i>	<i>[Signature]</i>	2/60

NORTH SANTA MARIA C.C. 50V249

92

10

R. M. Nash
August 15, 1960
93



NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
<i>A. E. Dwyer</i>	6/60	<i>John Nash</i>	7/60	<i>R. M. Nash</i>	8/60

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

ELECTRICAL SYSTEMS
4 MILES SOUTH OF SANTA MARIA
TO HOURIHAN GRADE

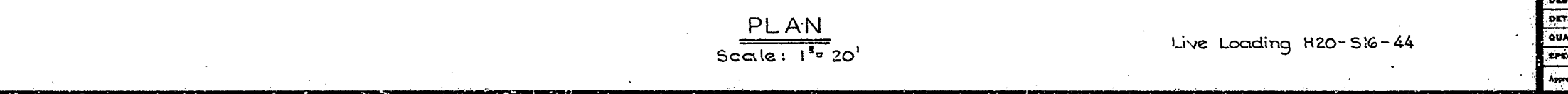
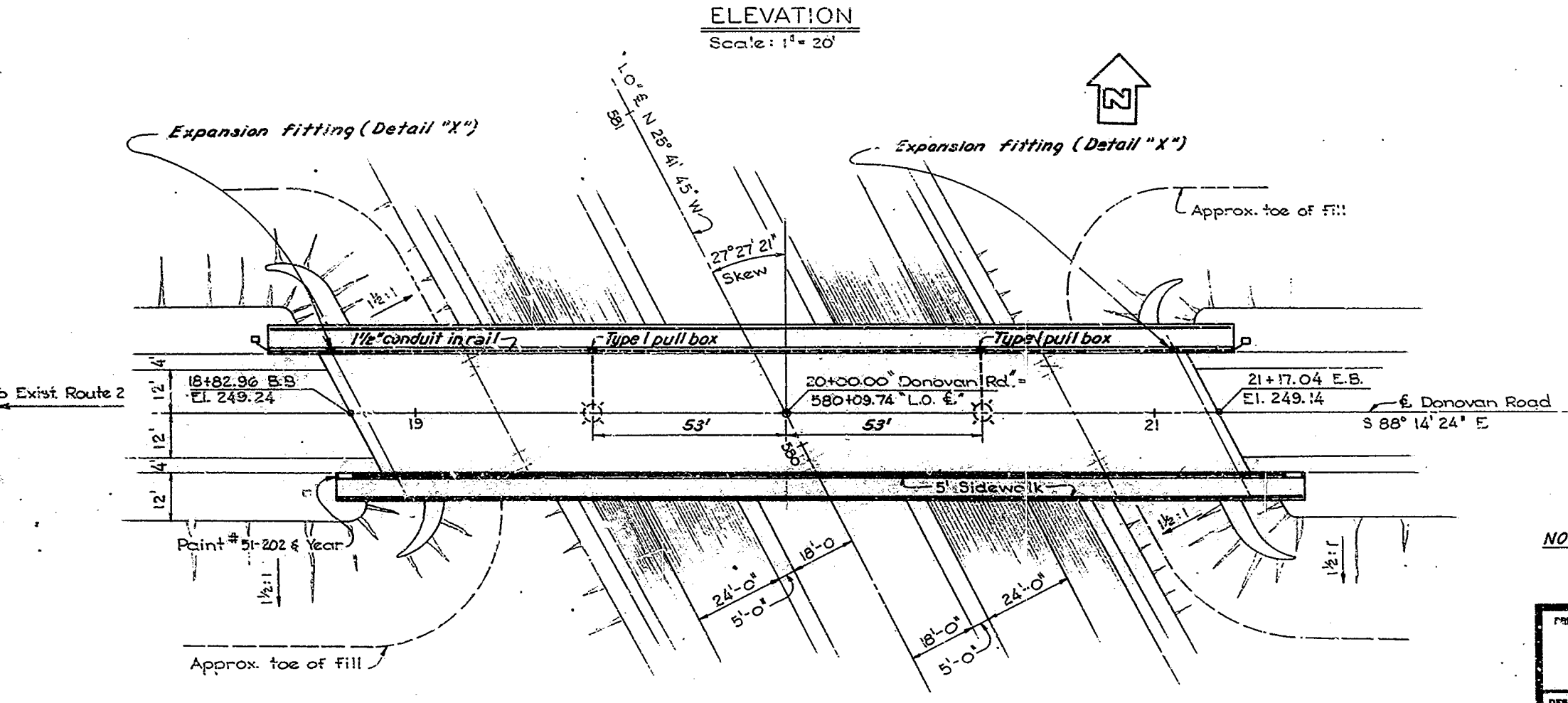
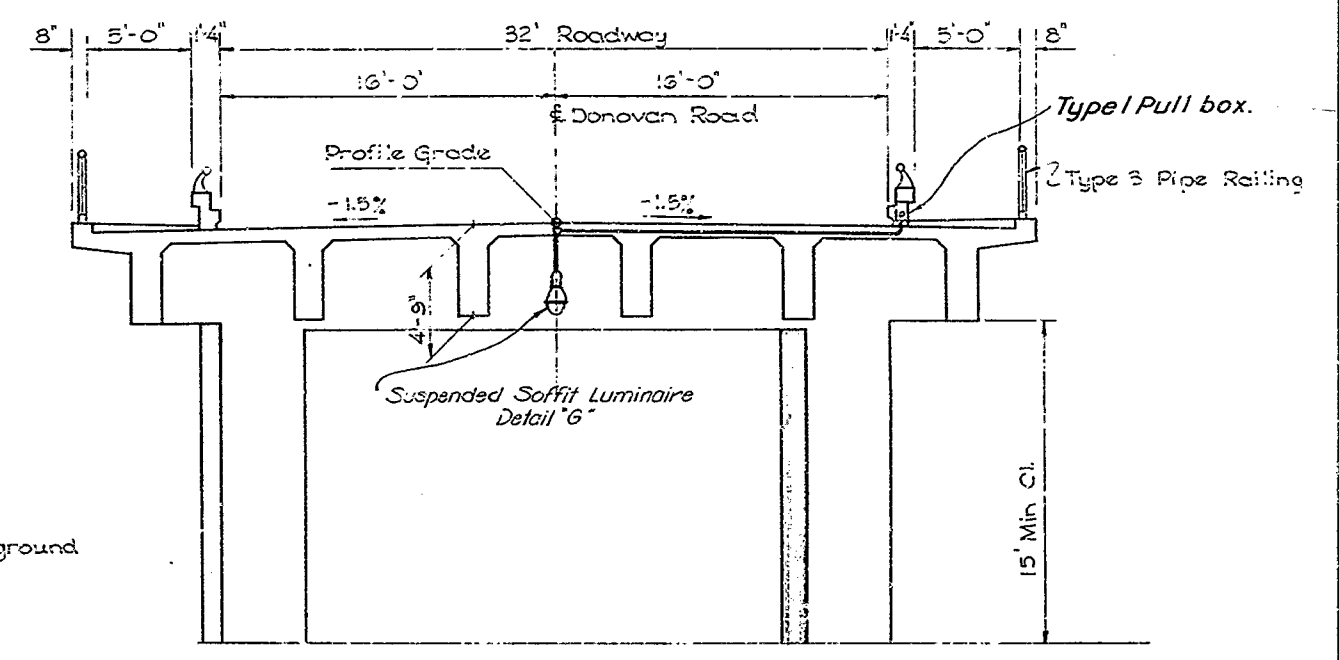
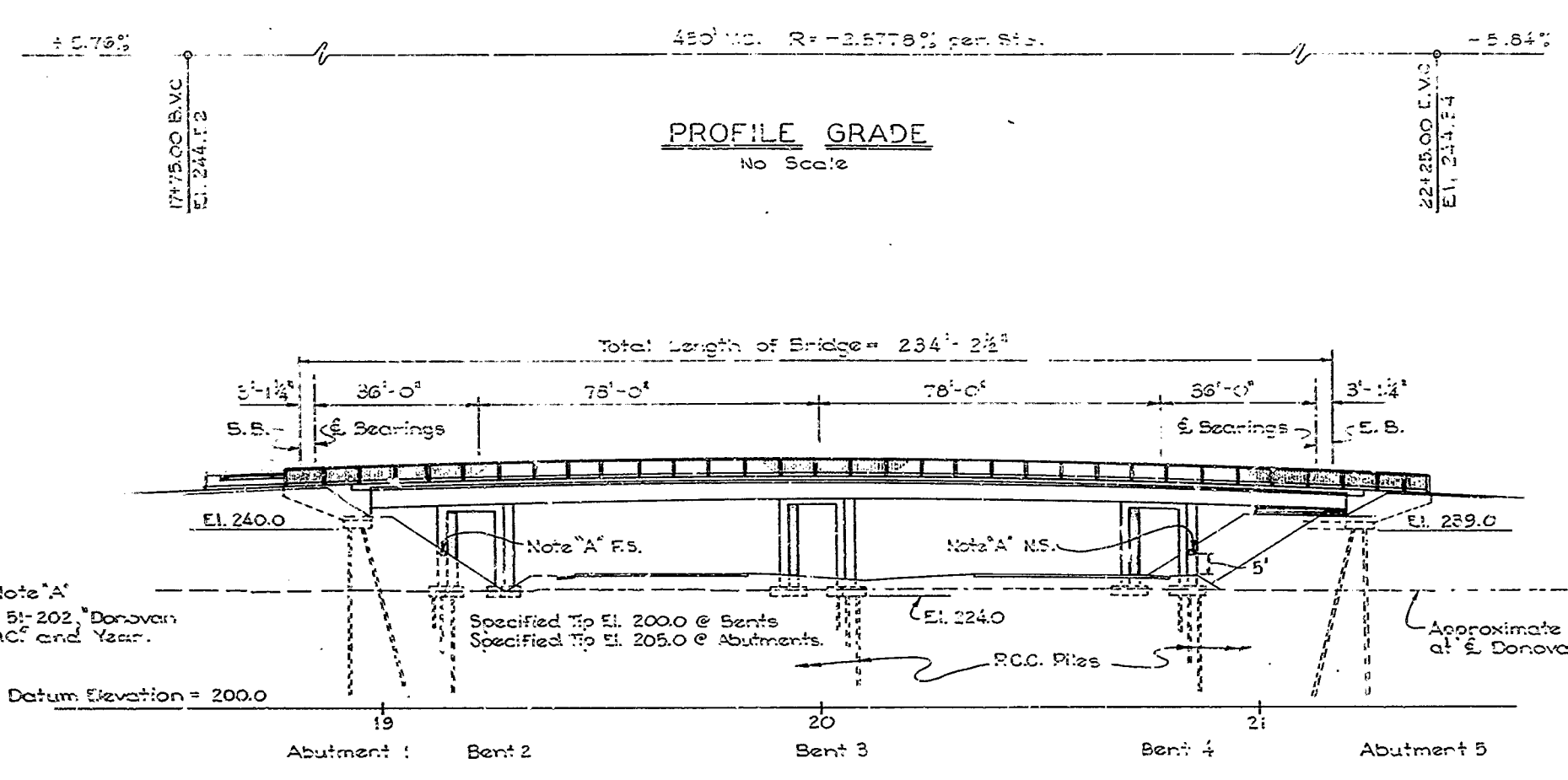
ROUTE 2-57 INTERCHANGE

61-5V13C11

NOTE: For service, see Sheet No. 5

FED. ROAD DIST. NO.	STATE	F.A. PROJECT NO.	# SECT.	TOTAL SHEETS
7	CALIF.		94	204

DISTRICT ENGINEER - DISTRICT V
 August 15, 1960
 DATE APPROVED
 [Signature]
 [Signature]
 [Signature]



TYPICAL SECTION Scale: 1" = 5'

LEGEND - This Sheet
 Suspended Soffit Luminaire, Detail "G"

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 5000536

NOTE: THIS PLAN ACCURATE FOR LIGHTING ONLY.

61-5V13C11

BRIDGE DEPARTMENT DESIGN SECTION 9		STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
Project Designer: Chief Designer:		DONOVAN ROAD OVERCROSSING LOCATED ADJACENT TO THE NORTH CITY LIMITS OF SANTA MARIA IN SANTA BARBARA COUNTY	
DESIGN by: [Signature] Checked: [Signature] DETAILS by: [Signature] Checked: [Signature] QUANTITIES by: [Signature] Checked: [Signature] SPECIFICATIONS by: [Signature] Checked: [Signature]		LIGHTING PLAN	
Approved Recommended by: [Signature]		SCALE AS NOTED BRIDGE 51-202 FILE DRAWING	

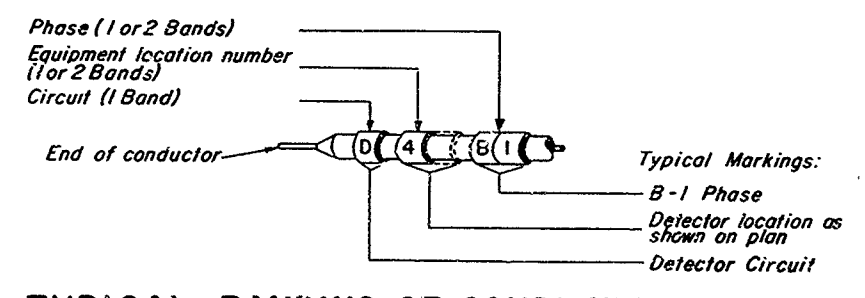
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. E. [Signature]	2/60	[Signature]	2/60	[Signature]	[Signature]	2/60

Disregard prints bearing earlier numbers PREL DRAWING NO. P-4704 27

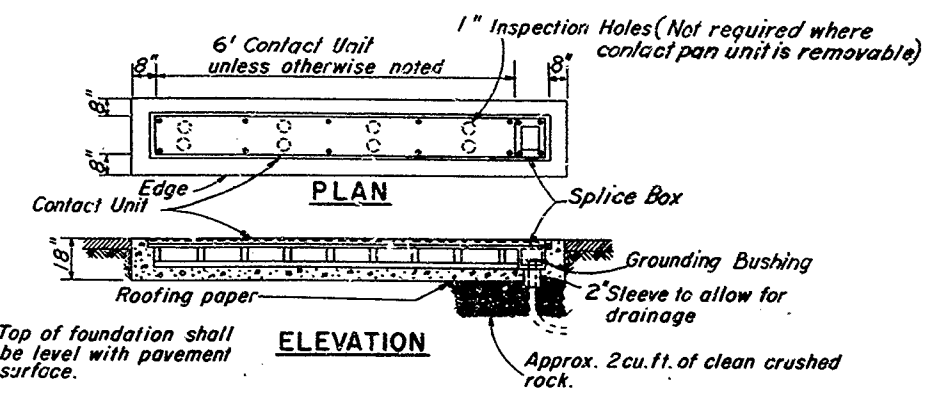
APPROVED January 9, 1959
[Signature]
 TRAFFIC ENGINEER, CIVIL ENGINEER LICENSE NO. 248

TO ACCOMPANY PLANS DATED August 15, 1960

PROPOSED	EXISTING	
		Signal conduit
		Lighting conduit
		Pull box
		Non-directional pressure detector
		Non-directional magnetic detector
		Directional pressure detector
		Controller
		Traffic signal, each arrow one-way three color (on Type I-A standard unless otherwise specified)
		Traffic signal one way three-color with backplate (on Type I-A standard unless otherwise specified)
		Traffic signal one way three-color with green arrow (on Type I standard unless otherwise specified) (Red and yellow lowered)
		Walk-man pedestrian signal (Type I standard unless otherwise specified)
		Pedestrian signal, 2-color head (on Type I unless otherwise specified)
		Mast arm traffic signal (with backplate) (on Type II standard)
		Electrolier, mast arm type with mast arm traffic signal with backplate (Type III standard)
		Electrolier, mast arm type (Type X standard)
		Electrolier, upright type
		Pedestrian push button on post
		Power pole
		Telephone pole
		Fire hydrant
		Flashing beacon, one-way
		Traffic signal with all colors lowered
		Overhead conductor



TYPICAL BANDING OF CONDUCTOR ENDS
 NO SCALE



PRESSURE DETECTOR
 NO SCALE

INSTALLATION NOTES

CONDUIT

- Unless otherwise indicated, service and detector runs and conduit into sign structure foundations shall be 1/2 inch and all other conduit shall be 1 1/2 inch.
- Conduit shall be laid 18" minimum below curb grade in sidewalk areas and 36" minimum below grade or finished surface in all other areas, except that conduit may be laid on and secured to the pavement with curbed dividing strips constructed on existing pavement.
- Conduit runs parallel to curbs shall be placed adjacent to back of curb, except where in conflict with existing facilities.
- Existing underground conduit to be incorporated into new systems shall be cleaned with a mandrel and blown out with compressed air.
- Conduit terminating in standards and pedestals shall extend 2" max above finished top of foundation and shall slope toward the handhole.
- Conduit entering controller cabinets shall be sealed with paraffin or other approved sealing compound.
- Service risers shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.

PULL BOXES

- Pull boxes shall be No. 5 except as indicated.
- Pull boxes shown in the vicinity of curbs shall be placed adjacent to back of curb, except when in conflict with existing facilities.
- Top of pull boxes shall be level with curb or sidewalk grade or 1" above surrounding ground when no finished grade is established.
- Pull boxes shown adjacent to standards shall be installed against but not on roadway side of foundation.

CONDUCTORS AND WIRING

- Signal neutral shall be a separate #10 AWG conductor.
- Conductors between ballasts or transformers and luminaires shall be #10 AWG, 600 volt.
- Conductors between series-to-multiple transformers and sign fixture ballasts shall be #10 AWG, 600 volt.
- Number of conductors indicated in signal system conduit includes three #14 AWG spares.
- Conductors shall be identified with bands.
- Underground conductors to signals shall be run without splice, except that where existing signals are being modified, signal conductors may be spliced where indicated.
- Neutral conductors may be spliced in pull boxes.
- Two feet of slack shall be provided in each conductor in each pull box.
- A separate conductor, other than neutral, shall be run from each detector to controller cabinet.
- Connection to each terminal of a pedestrian push button shall be by a single conductor. Splices shall be made in nearest pull box.
- Color coding for wiring to pedestrian signals shall be as specified for corresponding vehicular green and red indications.

- One side of secondary circuit of series-to-multiple transformers shall be grounded. On structures, the grounding electrode shall be the conduit system. Off structures, it shall be a 1/2" x 8" ground rod installed through bottom of pull box.

SIGNAL EQUIPMENT

- Pressure detectors shall be 6 feet long, non-directional, unless otherwise indicated.
- Detector position dimensions refer to contact unit.
- Top of detector foundation shall be level with pavement surface.
- Detector contact unit surface shall be level with rim of frame or no more than 1/8" high. If low, unit shall be raised using one-piece, galvanized sheet metal shims with dimensions the same as the bottom surface of the contact unit.
- Vehicular and pedestrian signal mountings shall be oriented so as to provide maximum horizontal clearance to adjacent roadway.

ELECTROLIERS

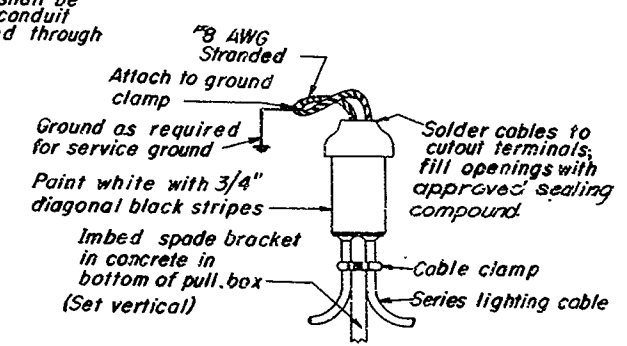
- A Mercury-vapor lamp ballast shall be installed in a pull box adjacent to each electrolier, except as indicated.

FOUNDATIONS

- Top of foundations for standards (before grouting) shall be level with top of curb in curbed areas or 6 inches above surrounding grade in other areas.
- Except as indicated, standards shall be installed with 2 foot clearance to face of curb, edge of shoulder, back of dikes, and back of ditches.

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

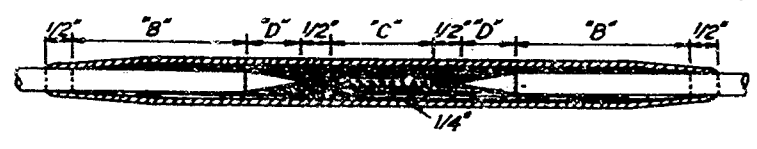
61-5V13C11



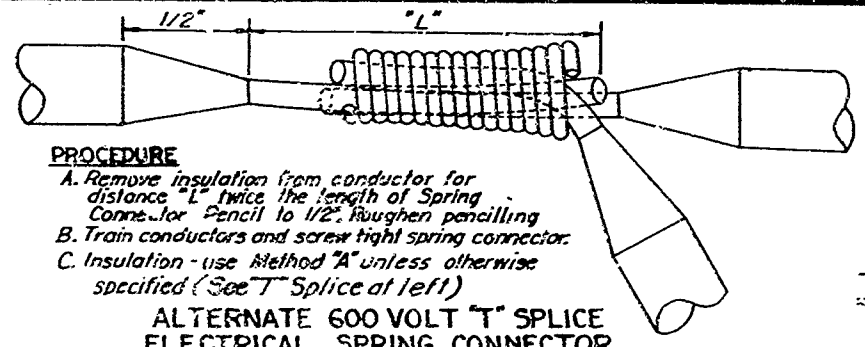
GROUNDING CUTOUT
 Use only when specified

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
STANDARD DETAILS NO. 4	
TRAFFIC SIGNAL AND HIGHWAY LIGHTING INSTALLATIONS	
SCALE AS NOTED	REV. DATE 7-15-59 481
DRAWING NO. F	

DIST. COUNTY ROUTE SECTION SHEET TOTAL
 17 186,520 2 15.54 1 96 137
 February 9, 1959
 APPROVED: *[Signature]*
 TRAFFIC ENGINEER, CIVIL ENGINEER LICENSE NO. 5229
 TO ACCOMPANY PLANS DATED August 15, 1960



STRAIGHT SPLICE (600 V or 5000 V)
 Use 4-way pressure sleeve connector with branch removed



PROCEDURE
 A. Remove insulation from conductor for distance 1" twice the length of Spring Connector. Pencil to 1/2". Roughen penciling.
 B. Train conductors and screw tight spring connector.
 C. Insulation - use Method "A" unless otherwise specified (See "T" Splice at left)

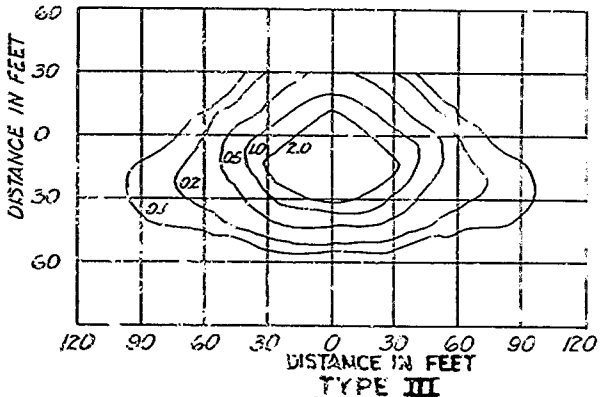
ALTERNATE 600 VOLT "T" SPLICE ELECTRICAL SPRING CONNECTOR
 (No. 14 AWG and larger)

STRAIGHT SPLICE DIMENSIONS - Inches			
AWG	"B"	"D"	"D"
600 Volt 14, 12 or 10 Solid	2"	1 1/2"	1 1/2"
600 Volt 8, 6, or 4 Stranded	2 1/2"	1 1/2"	1 1/2"
5000 Volt 8 Solid	3 1/4"	1"	1"

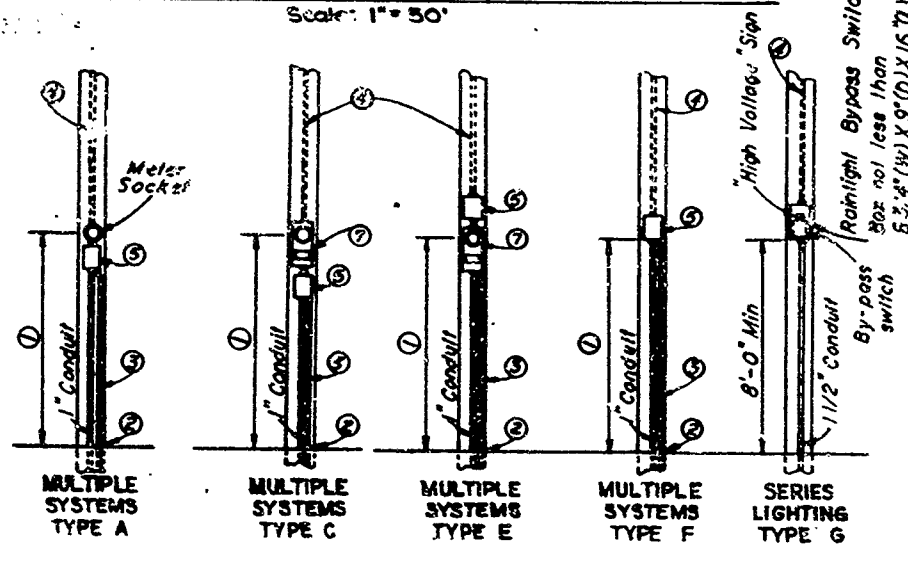
T-SPLICE - DIMENSIONS Inches			
AWG	"B"	"D"	"D"
600 Volt 14, 12, or 10 Solid	2"	1 1/2"	1 1/2"

600 VOLT "T" SPLICE "C" = Connector length (Up to 10 AWG only)

PROCEDURE
 A. Remove insulation from each conductor to distance 1/2" C + 1/2" and pencil to dimension C. Roughen penciling.
 B. Train conductors and place connector, centering over butted cable ends.
 C. Crimp and solder connector.
 D. Insulate according to Method "A" unless otherwise specified.

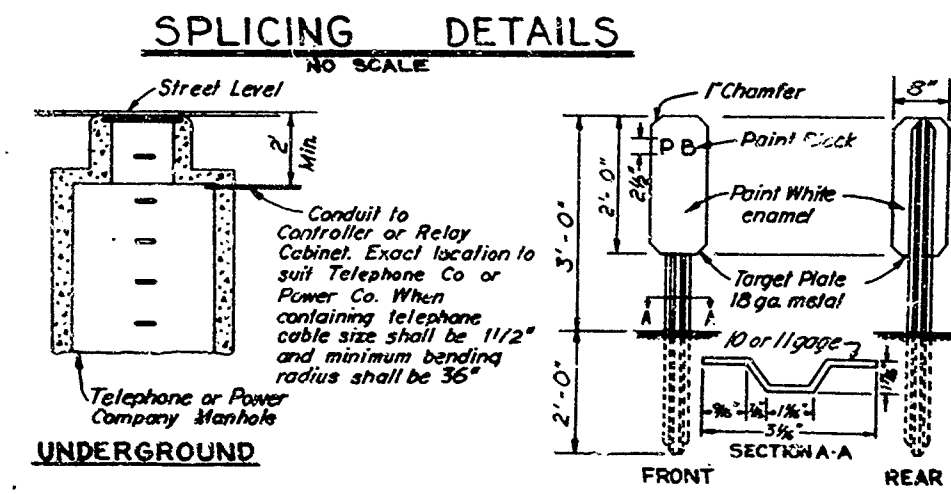


Shielded Highway Lighting Luminaire 30' Mounting Height, 20,000 Lumen Mercury Vapor Lamp
ISOLUX LINES OF MINIMUM HORIZONTAL FOOT CANDLES
 TYPE III
 Scale: 1" = 50'



SERVICE DETAILS
 NO SCALE

Height of service equipment to be obtained from serving utility. See grounding details at right for Types A, C, E & F.
 Grounding conductor raceway shall be 1/2" conduit or hardwood moulding.
 If service pole is utility owned, service conductors, raceway and entrance fittings shall be furnished by contractor and installed by serving utility. On State owned poles contractor shall also install the service conductors, raceway and entrance fittings. Service riser conduit shall be terminated with a service head or shall be sealed to prevent the entrance of water, as approved by the serving utility.
 Switch as specified, in Rainlight Cabinet.
 Switch as specified, Flasher Mechanism in 18"x10"x4 1/2" rainlight box.
 Meter Socket Box as approved by serving utility with either manual circuit closing device or space for test block, as specified.



UNDERGROUND
 NO SCALE

Conduit to Controller or Relay Cabinet. Exact location to suit Telephone Co or Power Co. When containing telephone cable size shall be 1 1/2" and minimum bending radius shall be 36".

PULL BOX MARKER
 NO SCALE

Malleable iron ground clamp with swivel 1/2" conduit hub.
 Ground Rod
 Face of wood pole or face of concrete foundation for steel pole.

TYPE B (Install only when indicated) (on plans)

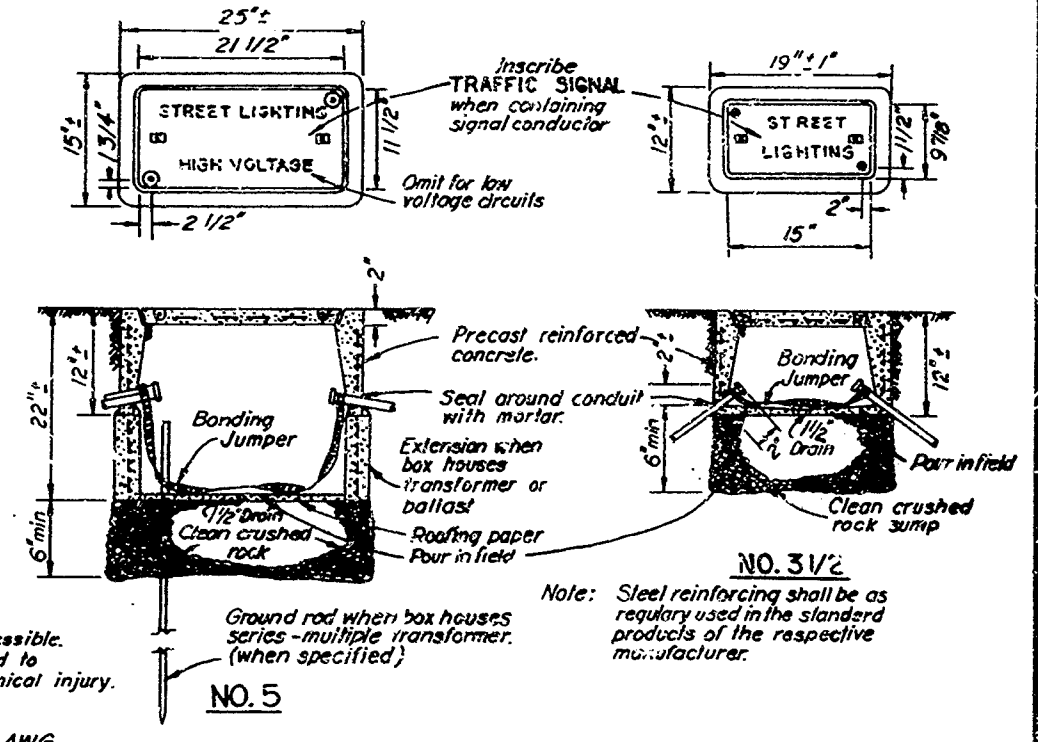
Note: When water pipe is used for ground, wire shall be incased in galvanized rigid conduit, or equivalent mechanical protection.
 Ground rod of the following minimum requirements shall be used. Depth below ground surface - 8'-0". Diameter of rod: 3/4" if galvanized rod or pipe. 1/2" if solid rod of brass, copper or copper covered steel.

SERVICE GROUNDING DETAILS
 NO SCALE

Malleable iron ground clamp with swivel 1/2" conduit hub and required fillings must be accessible. Conduit must extend to ground rod to protect ground wire from mechanical injury.

TYPE A

8 AWG stranded Attach to ground clamp
 Ground as required for service ground
 Paint white with 3/4" diagonal black stripes
 Embed spade bracket in concrete in bottom of pull box (Set vertical)
 Cable clamp
 Series lighting cable



PULL BOXES 61-5V13C11
 NO SCALE

GROUNDING CUTOUT
 (Use only when Specified)

8 AWG stranded Attach to ground clamp
 Ground as required for service ground
 Paint white with 3/4" diagonal black stripes
 Embed spade bracket in concrete in bottom of pull box (Set vertical)
 Cable clamp
 Series lighting cable

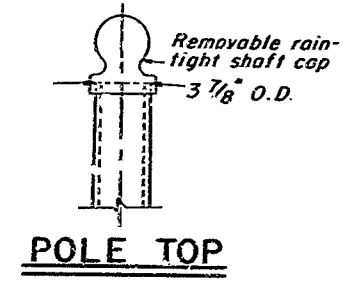
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD DETAILS
 HIGHWAY LIGHTING
 INSTALLATIONS

SCALE AS NOTED
 REV DATE: 3-25-60
 DRAWING E-

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

96

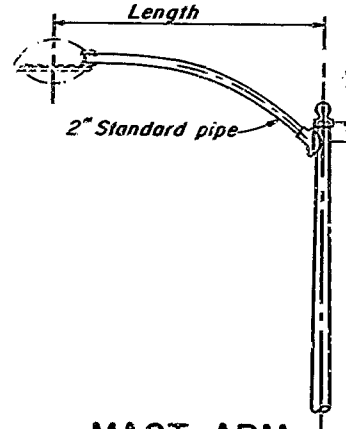


POLE TOP

POLE TYPE	POLE HEIGHT & GAUGE	POLE BASE DIAMETER	BASE PLATE DIMENSIONS			BASE PL. SLOT SIZE	ANCHOR BOLTS	
			a	b	c		DIMENSIONS	BOLT CIRCLE DIAMETER
II	20' X 10 ga.	6 3/8"	11 1/2"	9 1/2"	11 1/2"	1 1/4"	1" X 36"	9 1/2"
II-a	25' X 10 ga.	7 3/16"	11 1/2"	9 1/2"	11 1/2"	1 1/4"	1" X 36"	10"
III	30' X 7 ga.	8"	11 1/2"	9 1/2"	11 1/2"	1 3/8"	1 1/2" X 40"	11"
III-a	35' X 7 ga.	8 1/16"	13 1/2"	11"	12 1/2"	1 1/2"	1 1/2" X 44"	11 1/2"
X	30' X 10 ga.	8"	11 1/2"	9 1/2"	11 1/2"	1 1/4"	1" X 36"	11"
X-a	35' X 10 ga.	8 1/16"	13 1/2"	11"	12 1/2"	1 1/4"	1" X 36"	11 1/2"

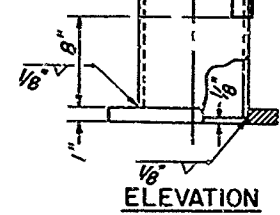
BASE AND ANCHOR BOLT SCHEDULE

Note: 11 gauge acceptable if fabricated from sheet steel of 40,000 psi minimum yield.

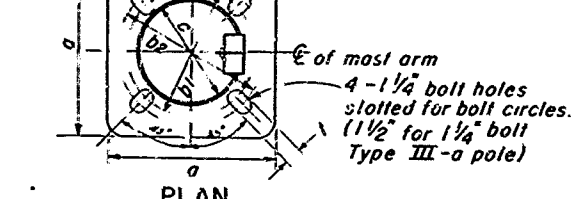


MAST ARM

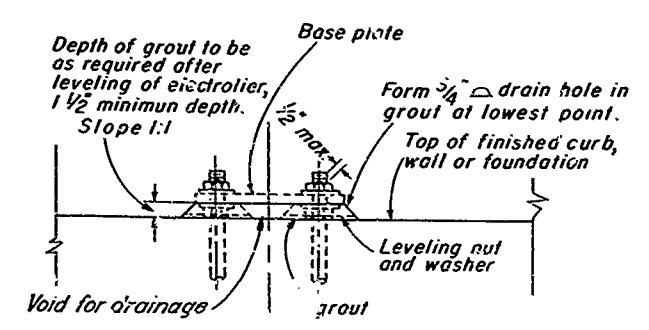
3" X 5" Hand hole, reinforced with No. 30 gaging 1/2" wide welded to outside of pole, 4 1/2" X 6 1/2" No. 10 ga. cover plate, located in same quadrant as mast arm.



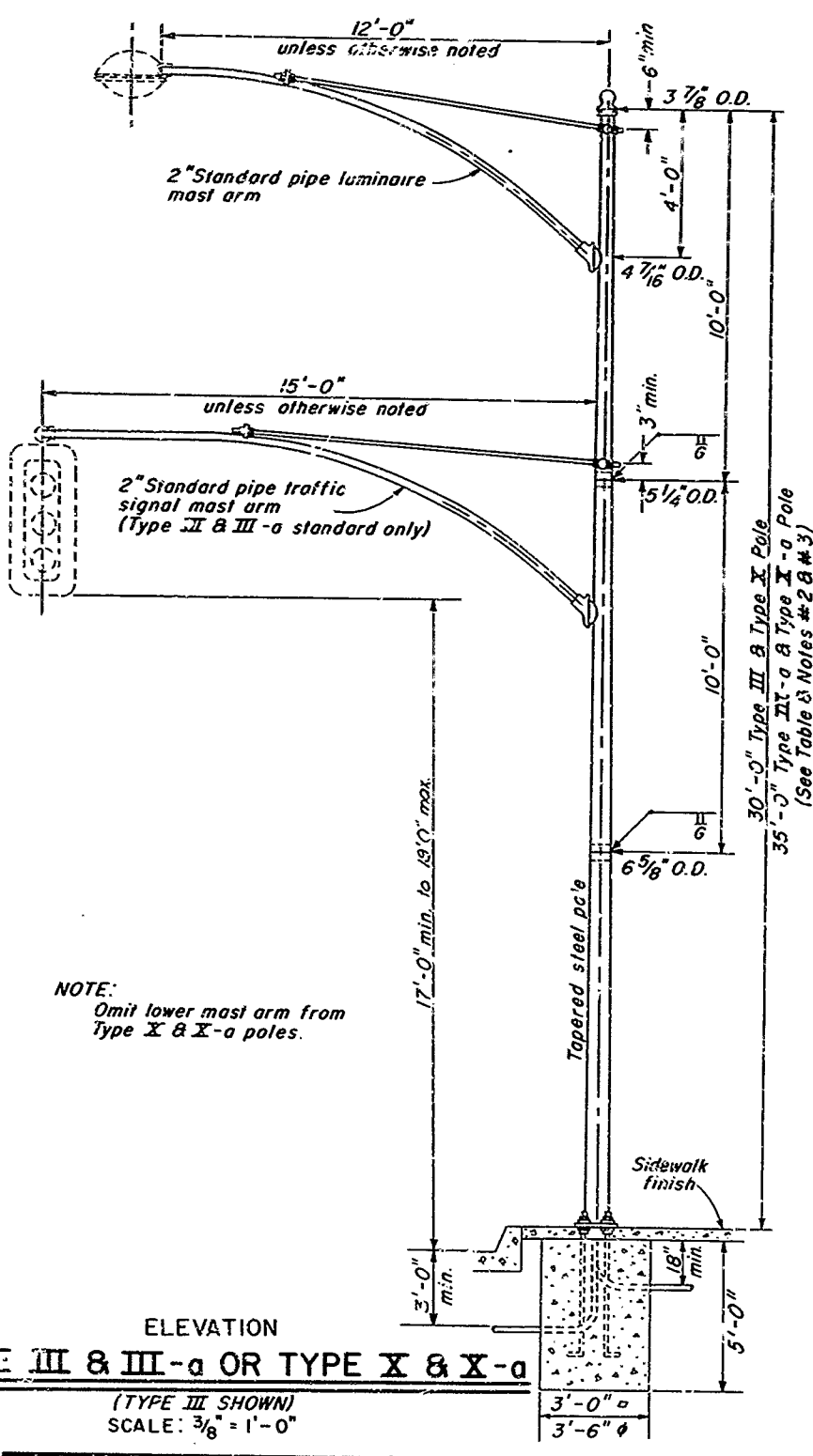
ELEVATION



POLE BASE

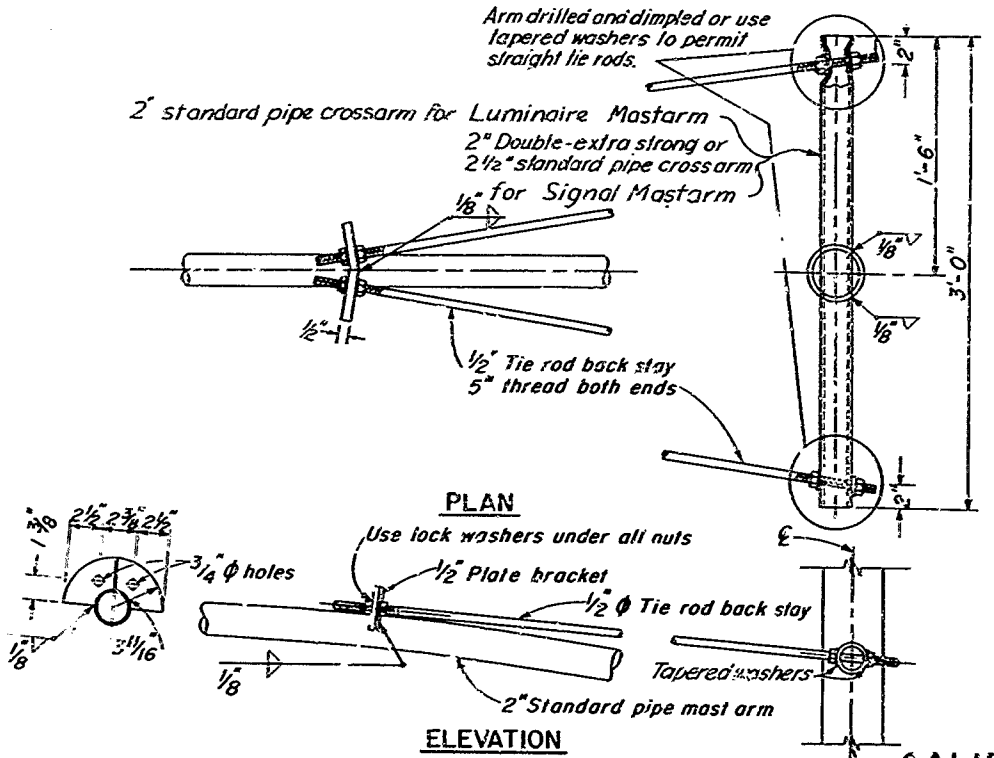


GROUT DETAIL



ELEVATION TYPE III & III-a OR TYPE X & X-a

(TYPE III SHOWN) SCALE: 3/8" = 1'-0"



MAST ARM TIE RODS AND CROSS ARM

(Use for mast arms in excess of 8' in length)

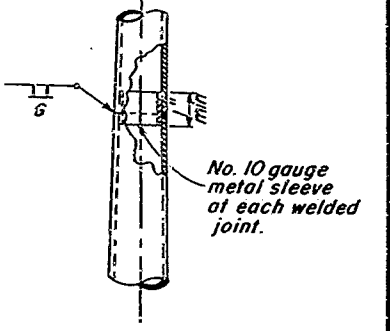
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

61-5V13C11

ELEVATION TYPE II & II-a

(TYPE II SHOWN) SCALE: 3/8" = 1'-0"

APPROVED: December 3, 1958
 [Signature]
 TRAFFIC ENGINEER, CIVIL ENGINEER LICENSE NO. 5425
 PLAN DATED August 15, 1960



POLE SPLICE

CALIF - TYPE STANDARDS

GENERAL AND INSTALLATION NOTES

- All shafts and mast arms shall be galvanized. Bolts, screws, nuts, washers and tie rods shall be galv. or cadmium plated.
- The lower 5' length of a 35' Type III-a pole shall consist of a 5' 7 gauge tapered section (8" O.D. to 6 1/16" O.D.) butt welded to the lower end of a 30' Type III pole.
- The lower 5' length of a 35' Type X-a pole shall consist of a 5' 10 gauge tapered section (8" O.D. to 6 1/16" O.D.) butt welded to the lower end of a 30' Type X pole.
- The lower 5' length of a 25' Type II-a pole shall consist of a 5' 10 gauge tapered section (6 5/8" O.D. to 7 7/16" O.D.) butt welded to the lower end of a 20' Type II pole.

MAST ARMS

- Luminaire mast arms shall be so curved that when mast arms fastened to pole the luminaire end shall not be below top of pole or more than 1'-6" above.
- The last 3' of the mast arm shall be straight and shall be horizontal with luminaire or traffic signal attached.
- Connection between mast arm and pole shall be made by means of a raintight socket of a design permitting simple removal of the mast arm and providing a chased outlet for electrical conductors.

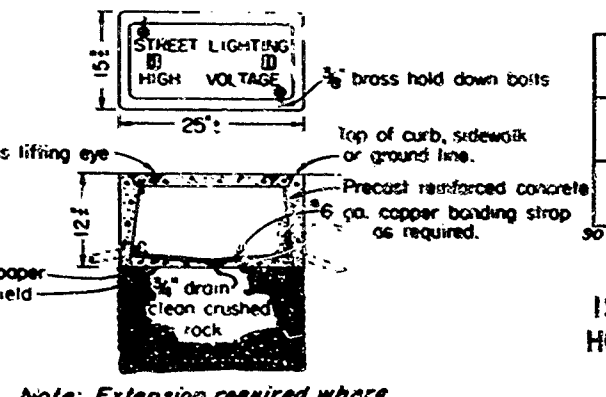
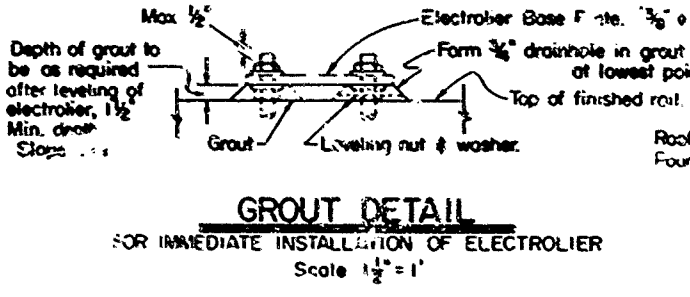
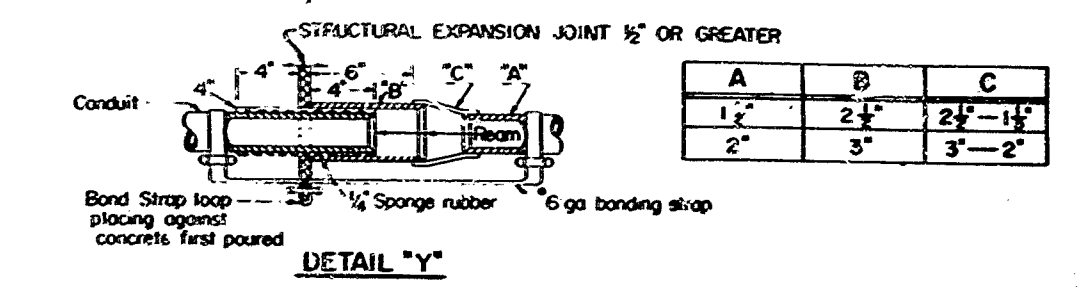
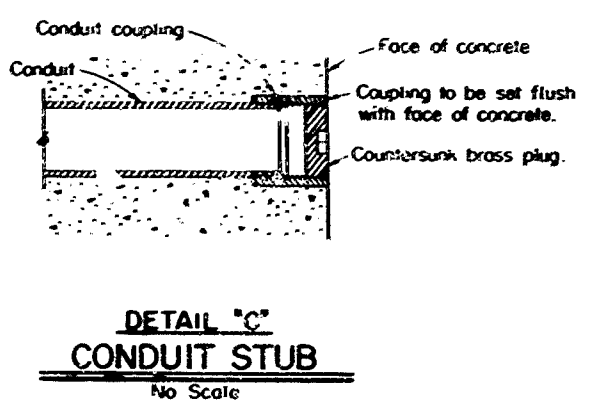
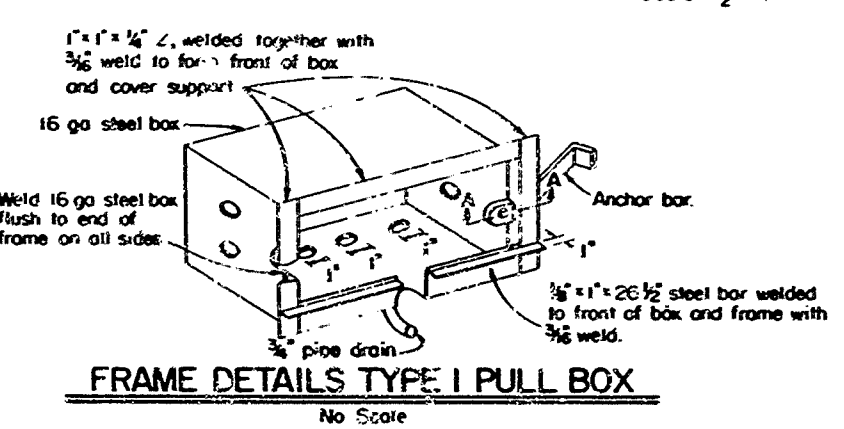
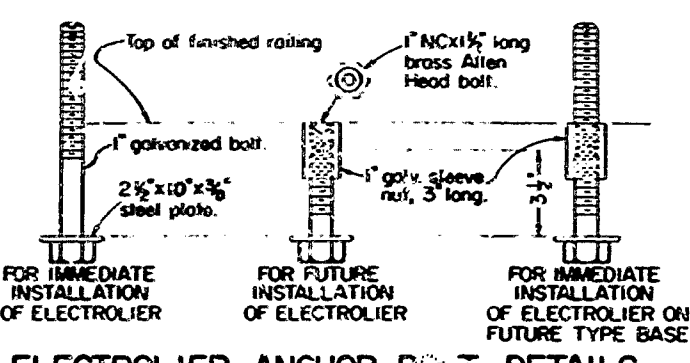
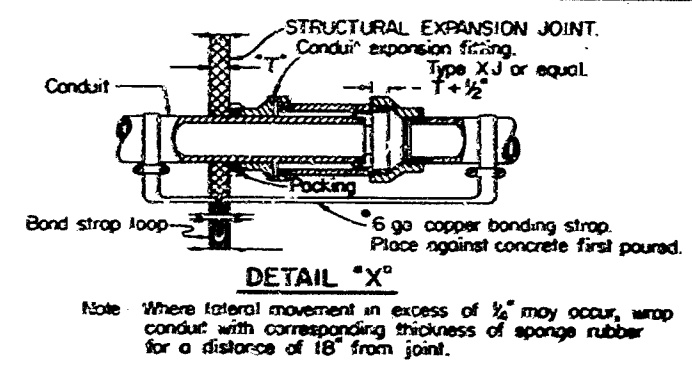
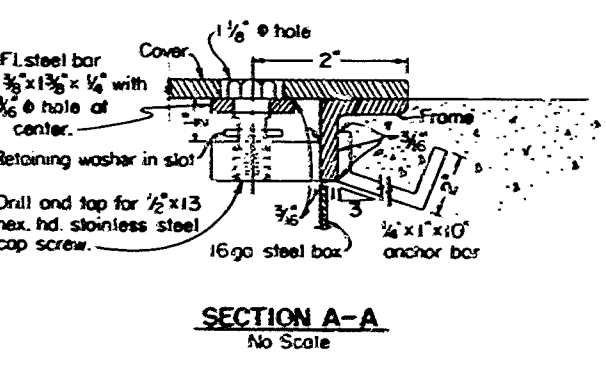
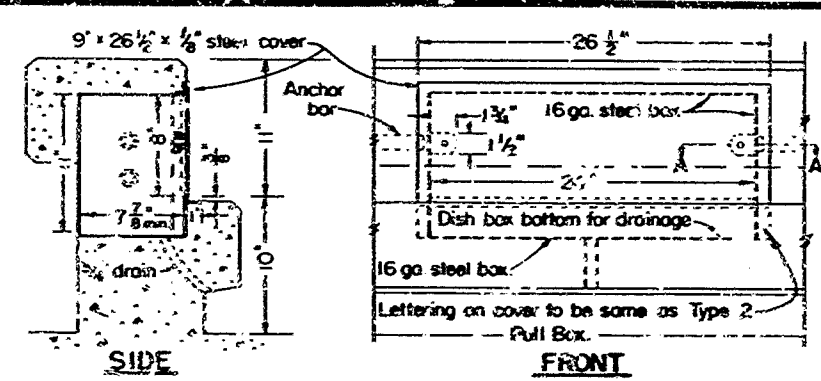
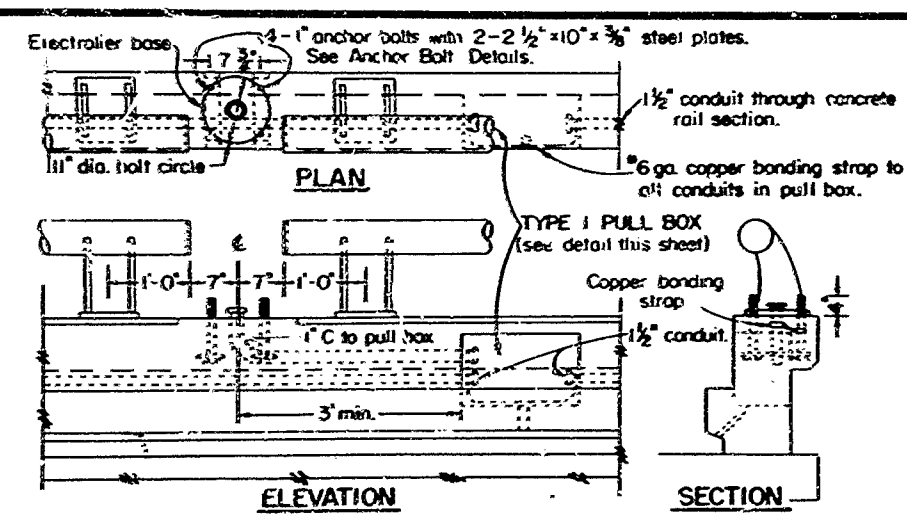
ANCHOR BOLTS

- Each standard shall be supplied with 4 anchor bolts.
- Each anchor bolt shall be provided with 6" of thread and a 4"-90° bend and shall be furnished with two nuts and two washers. Washers shall be 5/16" X 2 1/2" O.
- Threads may be cut or rolled. Bolts shall be galvanized or plated after threads are formed.
- One anchor bolt shall be bonded to conduit.

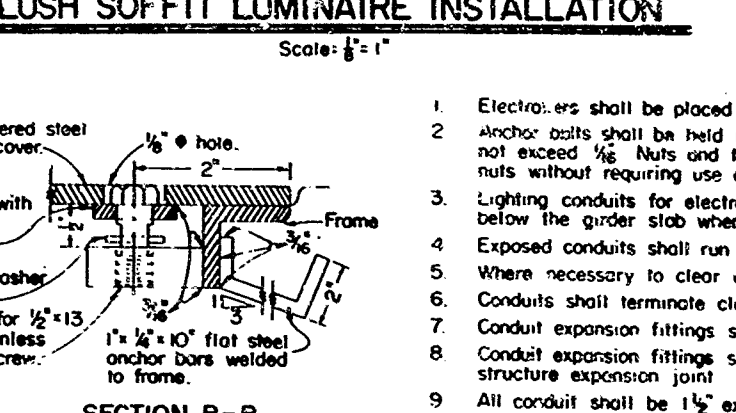
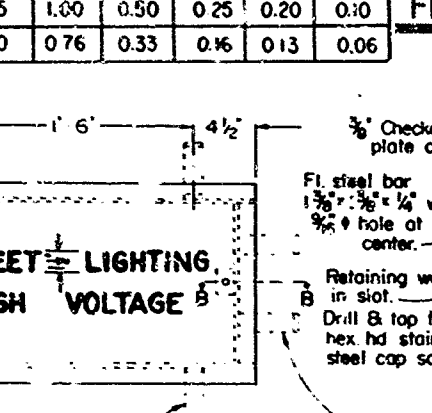
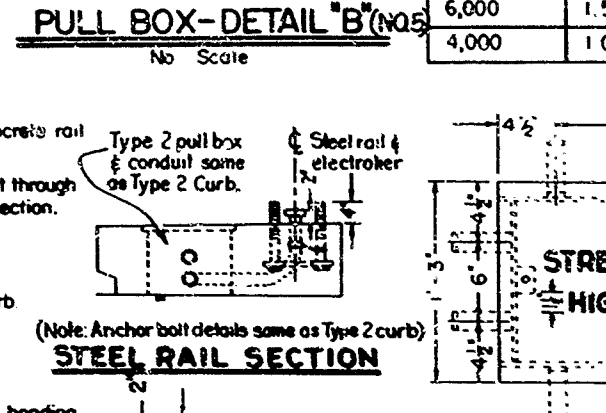
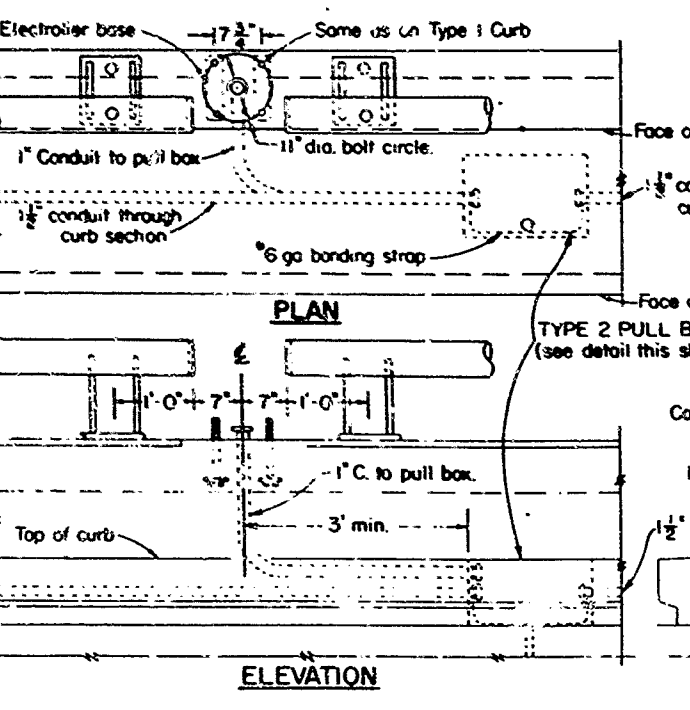
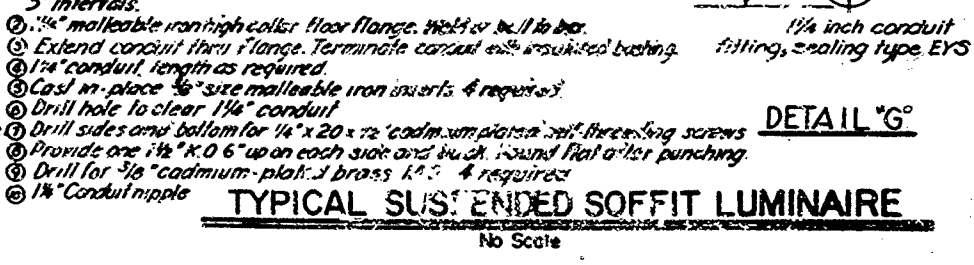
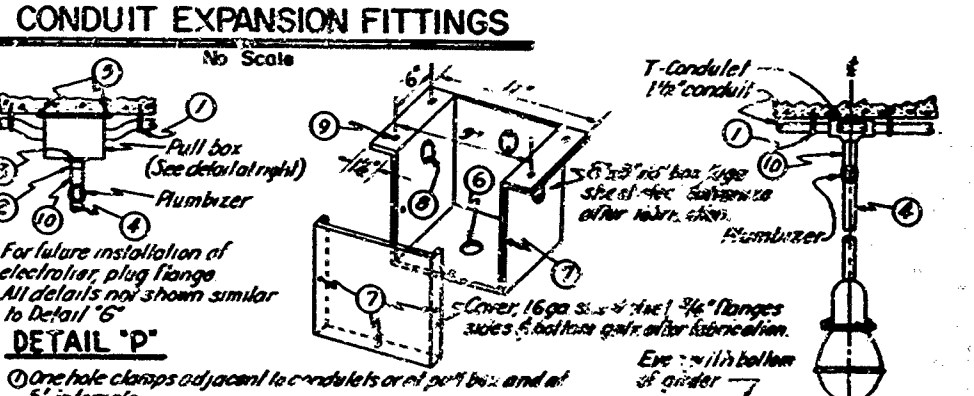
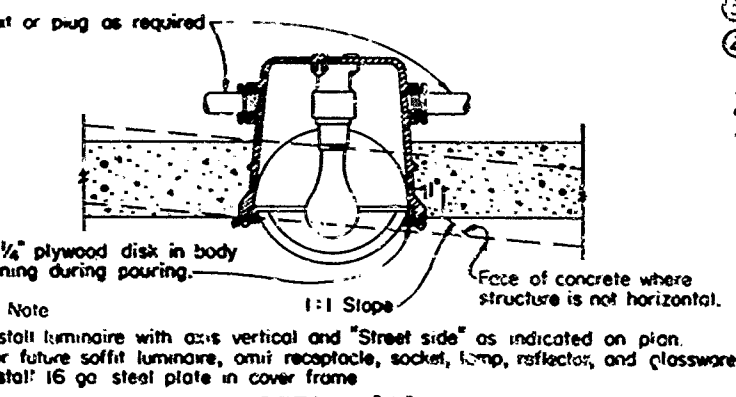
STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARDS CALIFORNIA TYPE

20 ft., 25 ft., 30 ft., 35 ft. Pole Heights
 SCALE AS NOTED
 REV. DATE: 2-22-62 NEM.
 DRAWING E-



Lamp Lumens	A	B	C	D	E	F
6,000	1.5	1.00	0.50	0.25	0.20	0.10
4,000	1.0	0.76	0.33	0.16	0.13	0.06



- GENERAL NOTES**
- Electroliers shall be placed a minimum of 4 feet from expansion joints.
 - Anchor bolts shall be held in position by means of suitable templates. Deviation from true position, vertical and height, shall not exceed 1/8". Nuts and threaded end of anchor bolts shall be galvanized or cadmium plated. Threads shall accept standard nuts without requiring use of tools or removal of protective galvanizing or plating.
 - Lighting conduits for electroliers and other conduits near the girder slab shall be laid within railing or curb sections, or laid below the girder slab when necessary.
 - Exposed conduits shall run either parallel or at right angles to the superstructure girders.
 - Where necessary to clear utilities, the conduit shall be carried over the utility ducts in long conduit sweeps.
 - Conduits shall terminate close to the ends of the pull box as specified in order to provide maximum clear space in box.
 - Conduit expansion fittings shall be installed wherever conduit crosses structure expansion joints of 1/2" or more.
 - Conduit expansion fittings shall be placed approx. parallel to the superstructure girders. One shall be placed at each structure expansion joint.
 - All conduit shall be 1 1/2" except as noted.
 - Metal pull boxes and frames shall be galvanized after fabrication.
 - Detailed shop drawings for metal pull boxes shall be submitted in accordance with the provisions of Section 55, of the Standard Specifications.
 - Conduit running to future electrolier bases shall be terminated per Detail "C".
 - Flush soffit luminaires shall be placed a minimum of 2 feet from the inside surface of girders and 1 foot from the inside surface of diaphragms.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD LIGHTING DETAILS - BRIDGE

SCALE: BRIDGE FILE: REVISED 6-20-60 N.C.M.
 DRAWING NO. E

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

28

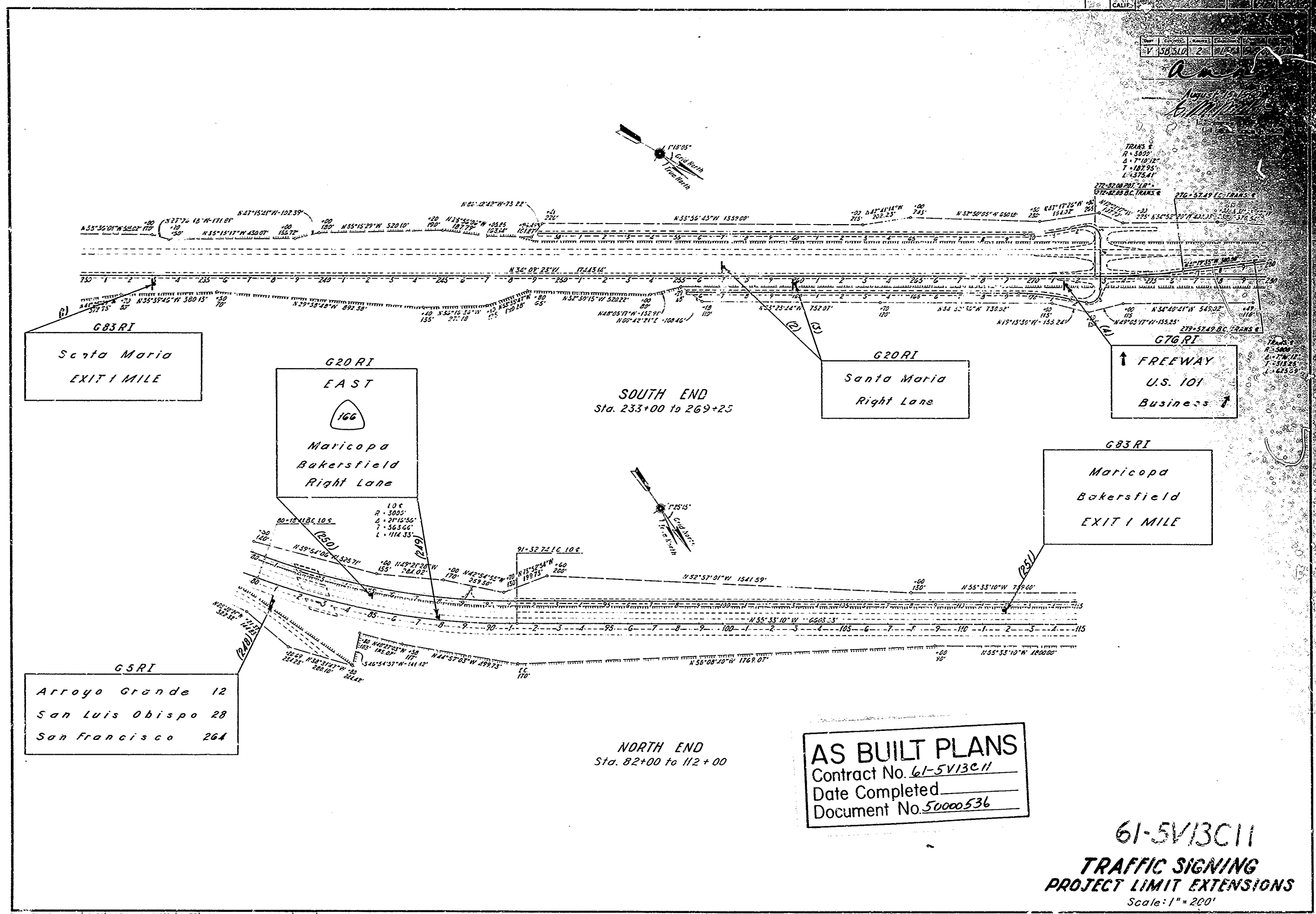
61-5V13C11

Y 156310 2 0454

Am
August 15, 1961
G. E. DUNN

70485 E
N = 3805'
S = 17012'
T = 18795'
L = 57241'

270-5249 C.C. TRANS. E
270-5249 C.C. TRANS. E
270-5249 C.C. TRANS. E



G83 RI
Santa Maria
EXIT 1 MILE

G20 RI
EAST
166
Maricopa
Bakersfield
Right Lane

G20 RI
Santa Maria
Right Lane

G76 RI
FREEWAY
U.S. 101
Business

G83 RI
Maricopa
Bakersfield
EXIT 1 MILE

G5 RI
Arroyo Grande 12
San Luis Obispo 28
San Francisco 264

NORTH END
Sta. 82+00 to 112+00

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

61-5V13C11
TRAFFIC SIGNING
PROJECT LIMIT EXTENSIONS
Scale: 1" = 200'

DATE	DESIGN ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	REASON	BY	DATE
7/60	G. E. DUNN	7/60	G. E. DUNN	7/60	G. E. DUNN			7/60

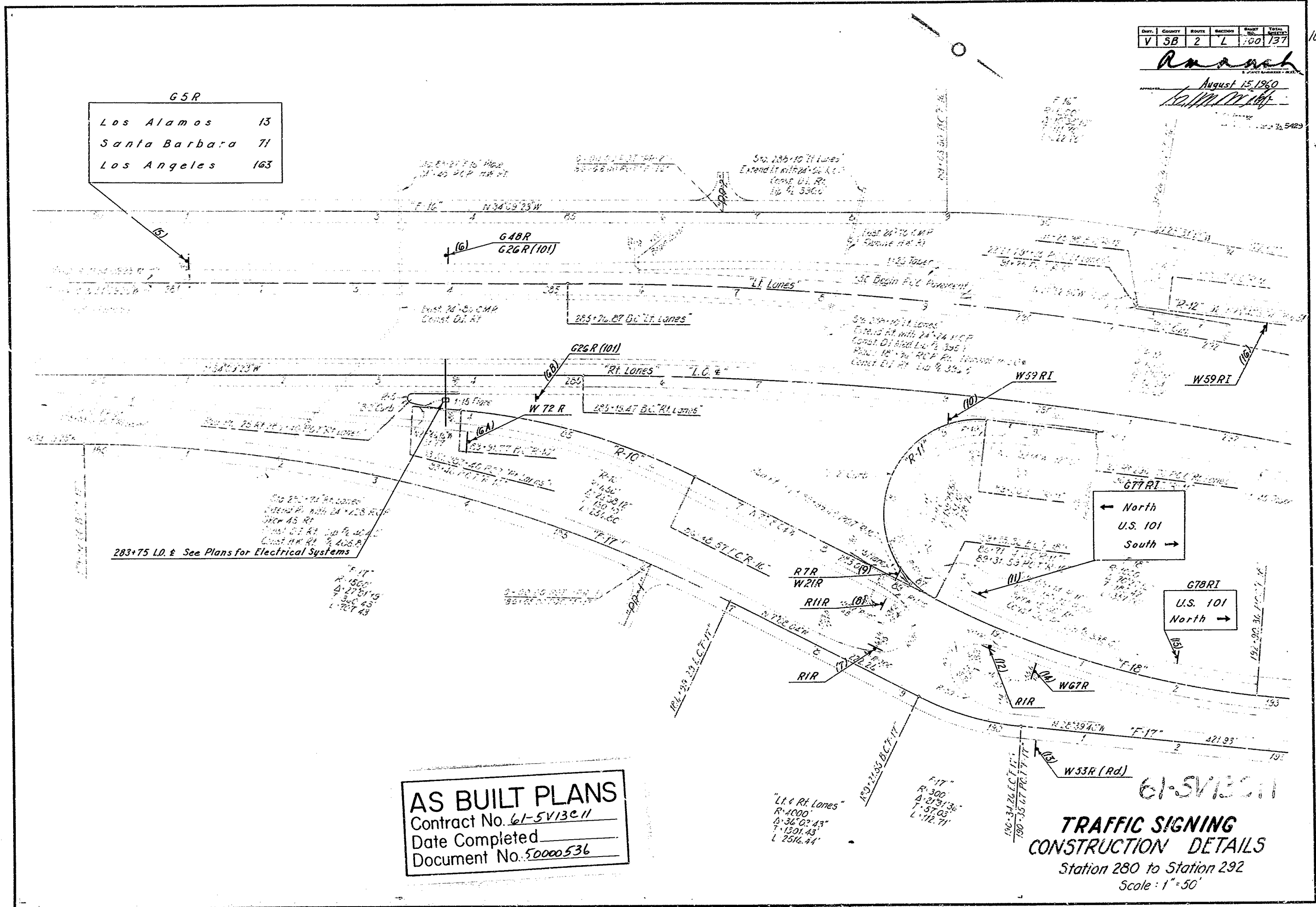
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F.P.A. No.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			100	204

Dist.	County	ROUTE	SECTION	POST MILE	STATION
V	SB	2	L	100	197

R. Marshall
 August 15, 1960
 10/11/72/101

G5R
 Los Alamos 13
 Santa Barbara 71
 Los Angeles 163



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 280 to Station 292
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	7/60	[Signature]	7/60	[Signature]	7/60

100

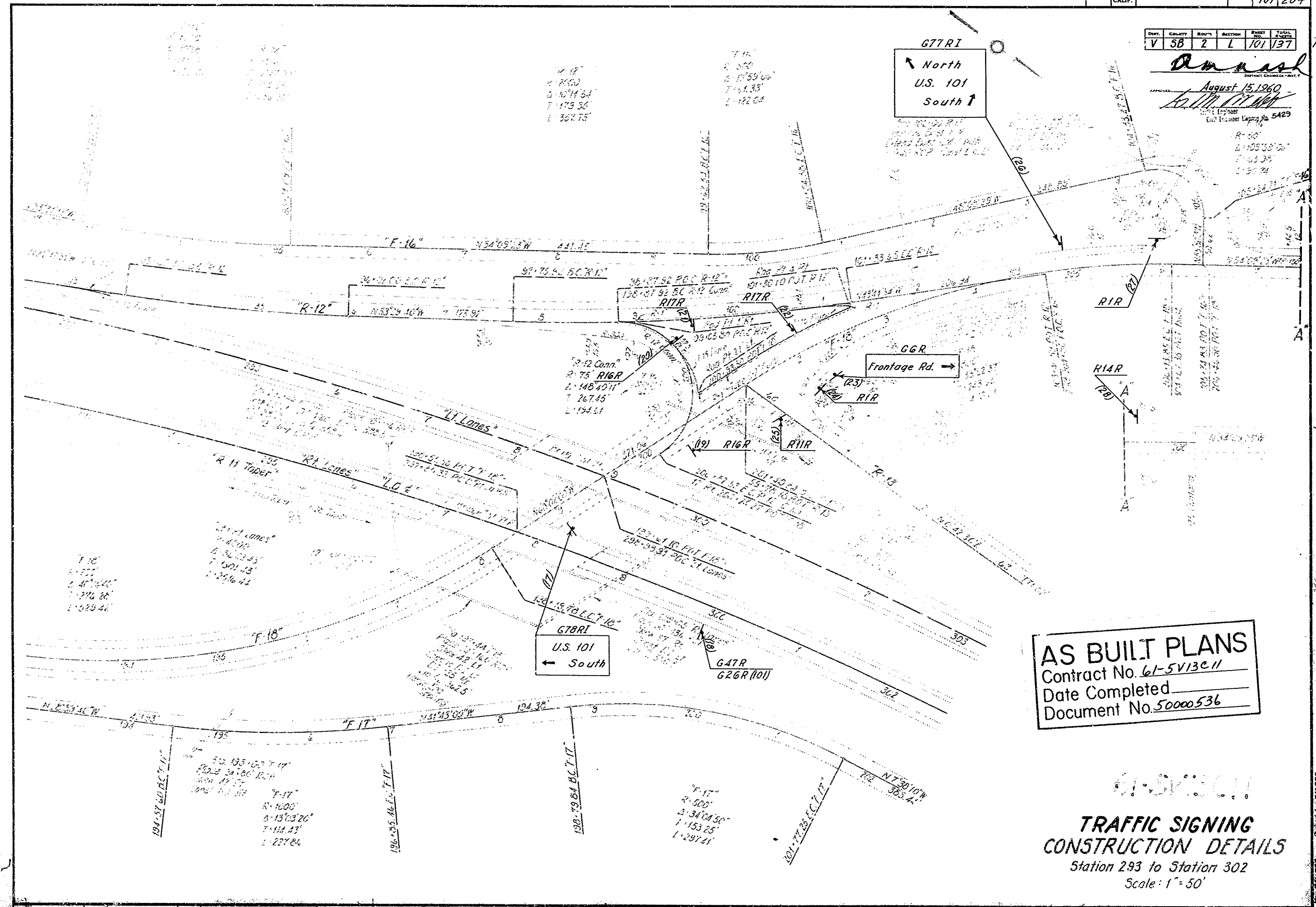
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100

PROJ. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			101	204

Dist.	County	Sheet	Section	Sheet No.	Total Sheets
V	SB	2	L	101	137

Amund
 August 15, 1960
 H. J. [Signature]
 Civil Engineer License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

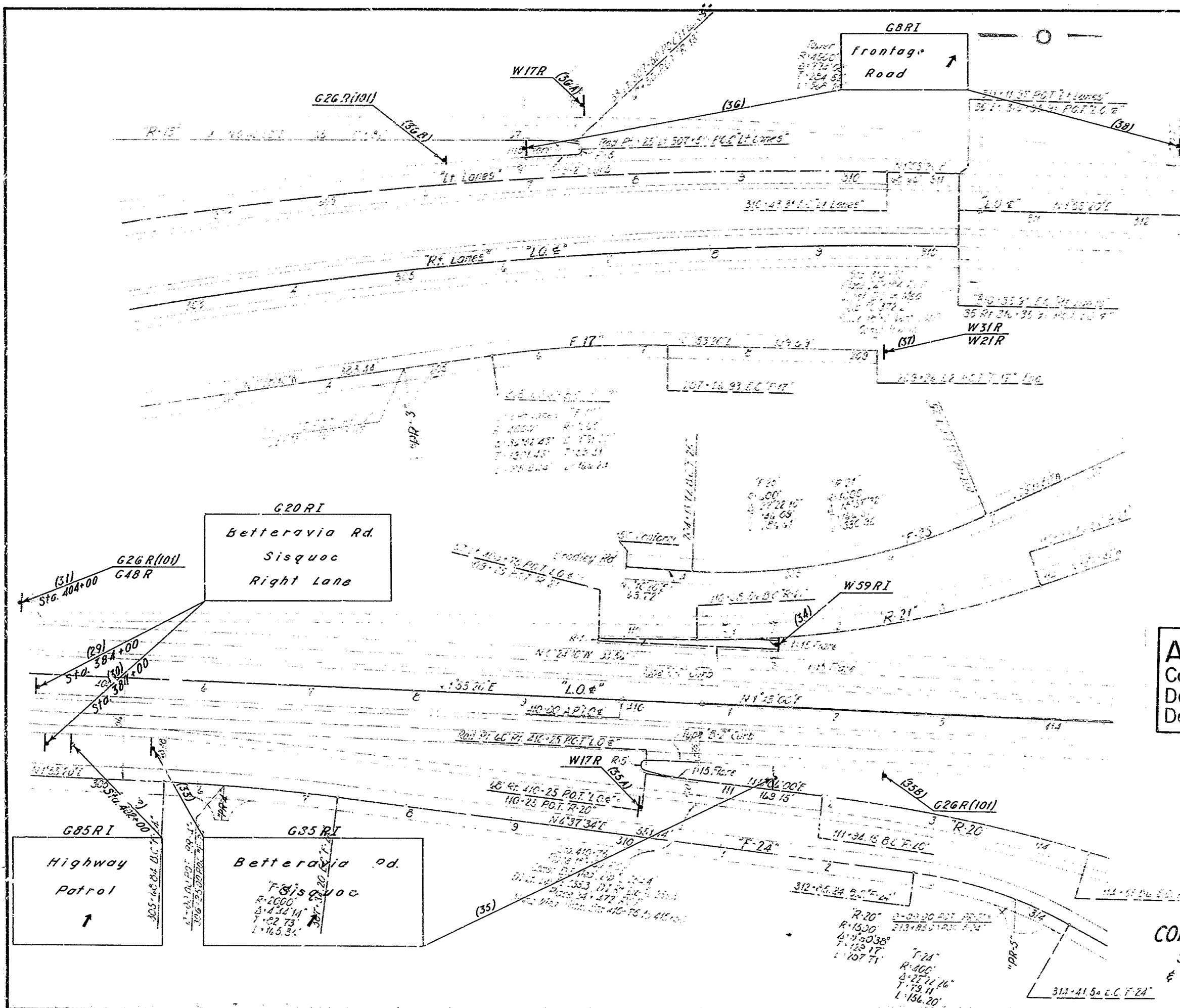
**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 293 to Station 302
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL ENGINEER	DATE
G. E. Bayler	8/60	[Signature]	7/60	[Signature]	8/60

FED. AID DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			102	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	Z	L	102	137

Amurash
 August 15, 1960
[Signature]
 License No. 5129



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 303 to Station 312
 & Station 405 to Station 414
 Scale: 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	REVISIONS
G. E. Dwyer	3/60	[Signature]	3/60	[Signature]	

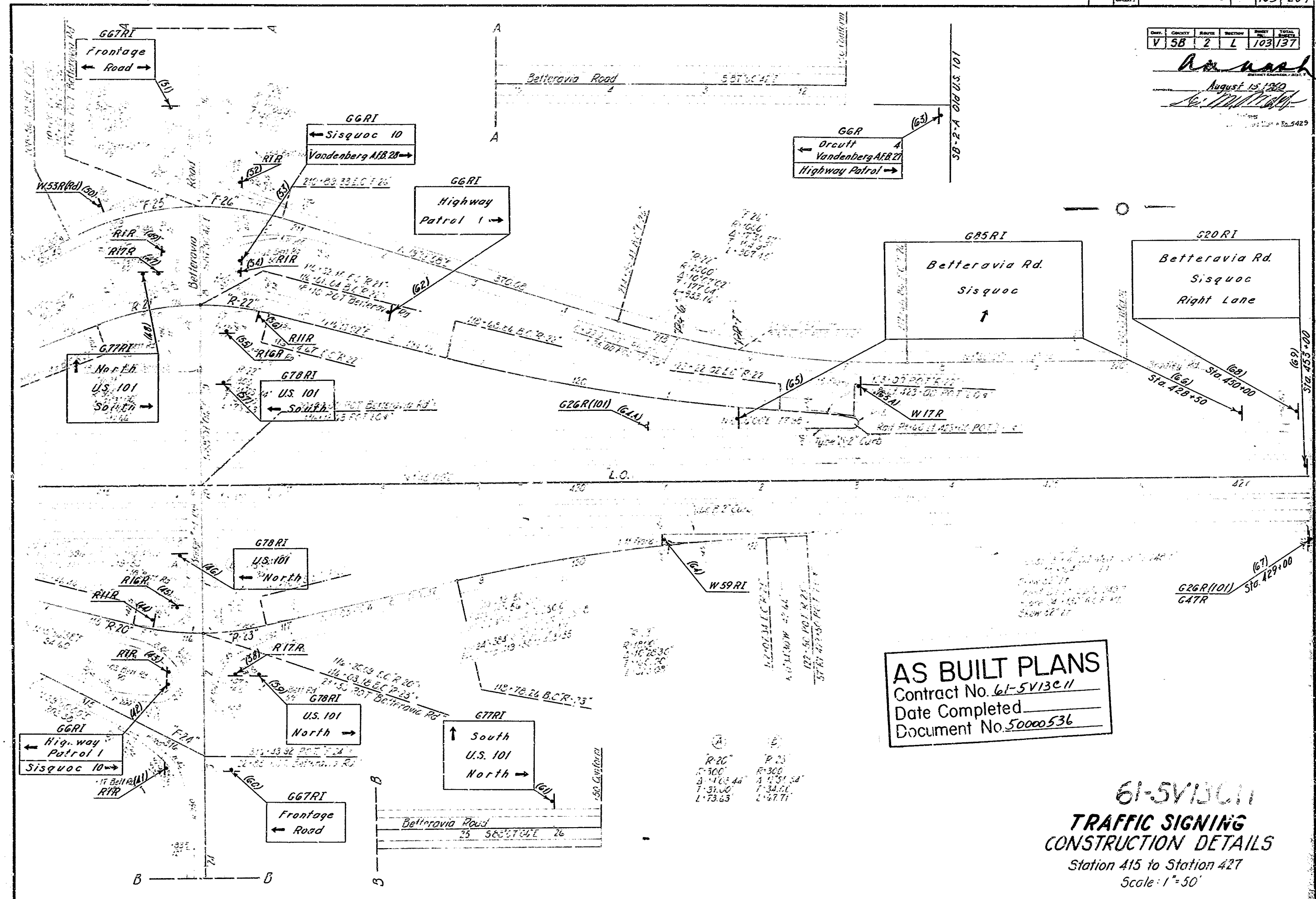
102

102

FED. PROJ. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	PROJECT NO.	TOTAL SHEETS
	CALIF.			103	204

DATE	COUNTY	ROUTE	METHOD	POST MILES	TOTAL MILES
V	SB	2	L	103	137

August 15, 1960
[Signature]
 No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 415 to Station 427
 Scale: 1"=50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	REVISIONS	DATE
J. E. Dwyer	2/60	[Signature]	1/60	[Signature]		2/60

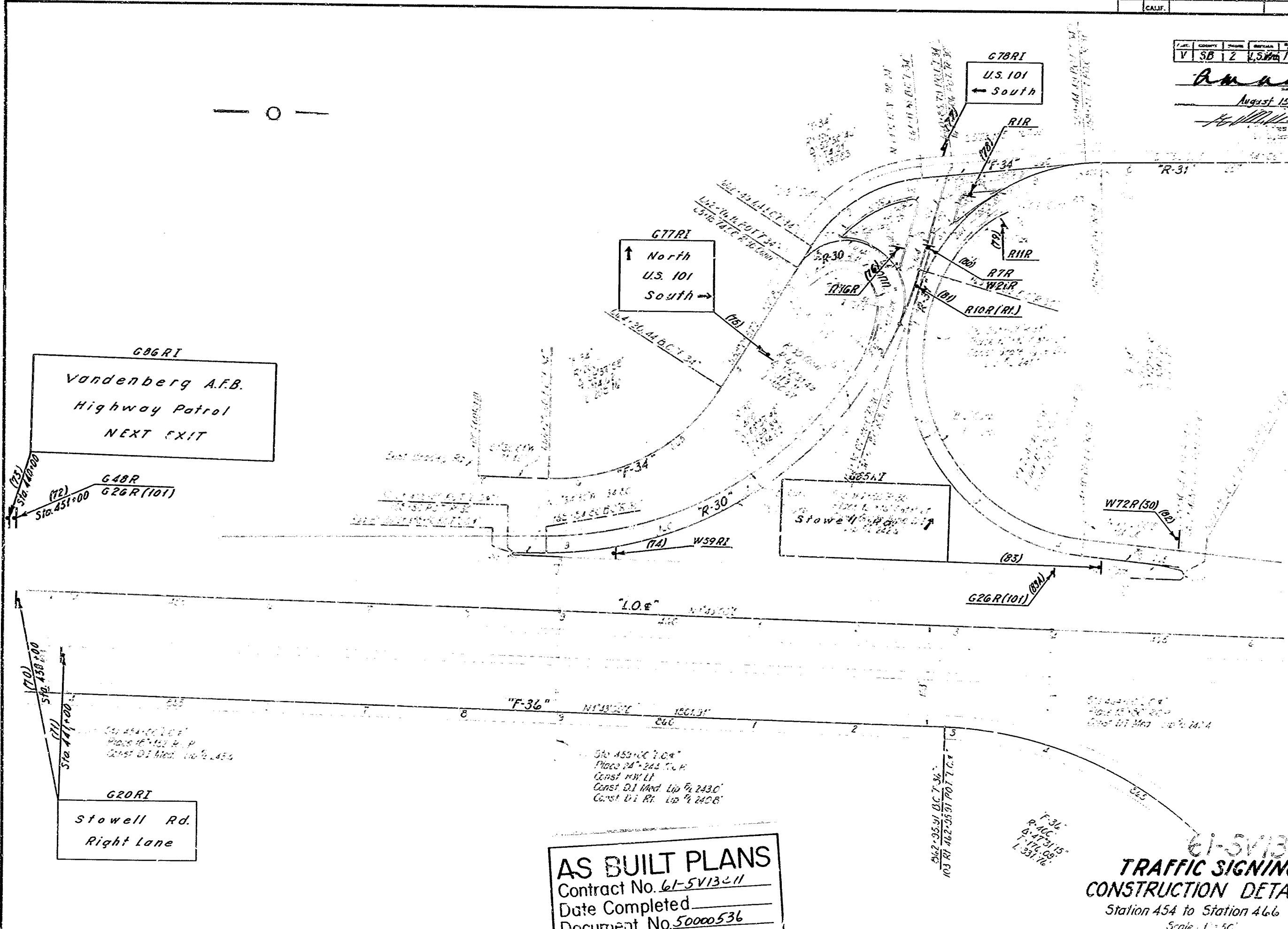
103

103

F.P.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
104	CALIF.			104	204

LINE	SECTION	POST MILE	DATE
V	SB	Z	U.S. 101

R. M. ...
 August 15, 1960
 104



AS BUILT PLANS
 Contract No. 61-5V13-11
 Date Completed _____
 Document No. 50000536

61-5V13-11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 454 to Station 466
 Scale: 1" = 50'

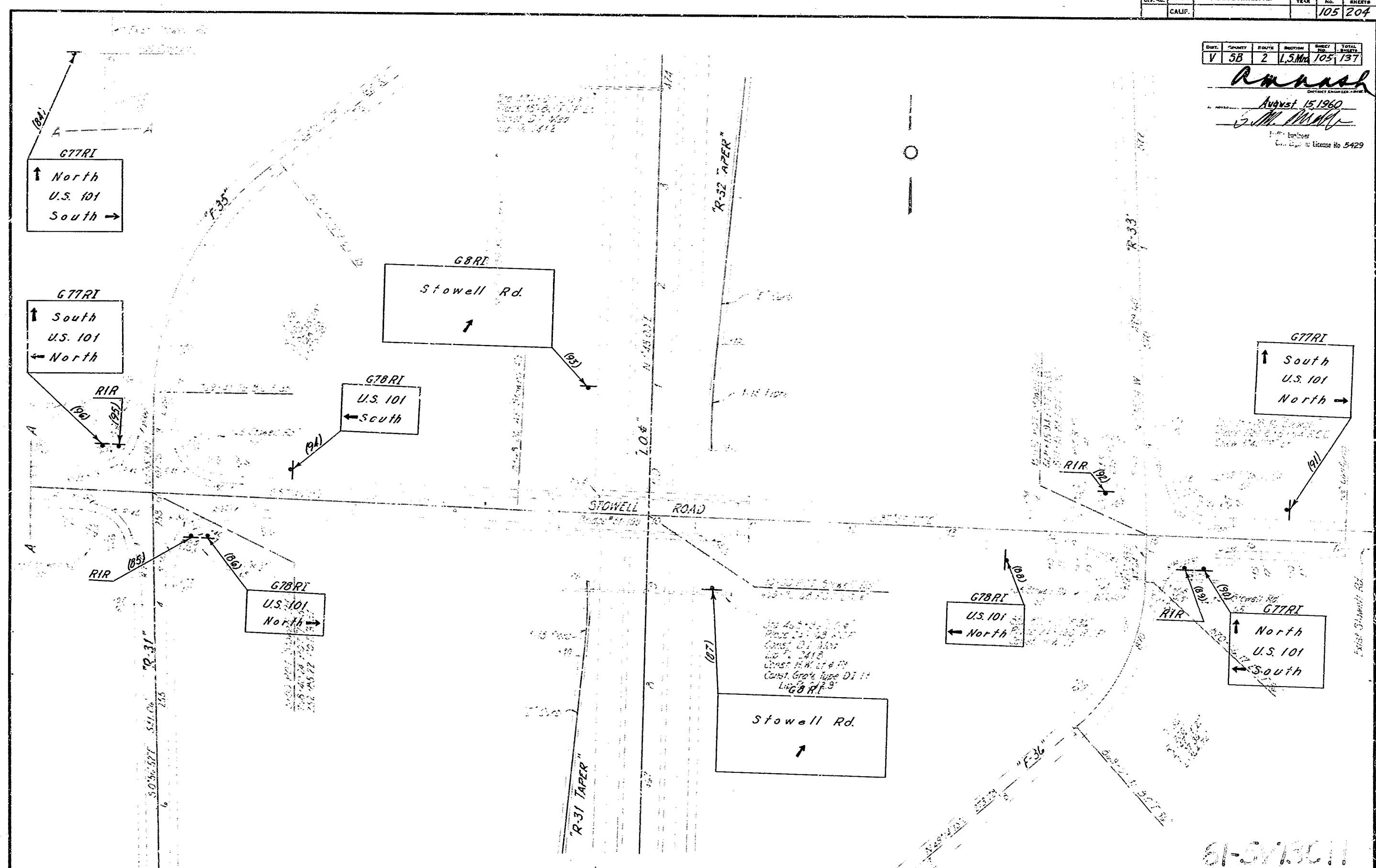
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
G. E. ...	7/60	...	7/60	...	...	7/60

104

FED. AID DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			105	204

DIST.	COUNTY	ROUTE	MILEPOST	SHEET NO.	TOTAL SHEETS
V	SB	2	1.5 Miles	105	137

R. Walsh
 August 15, 1960
J. M. Walsh
 License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 467 to Station 474
 Scale: 1" = 50'

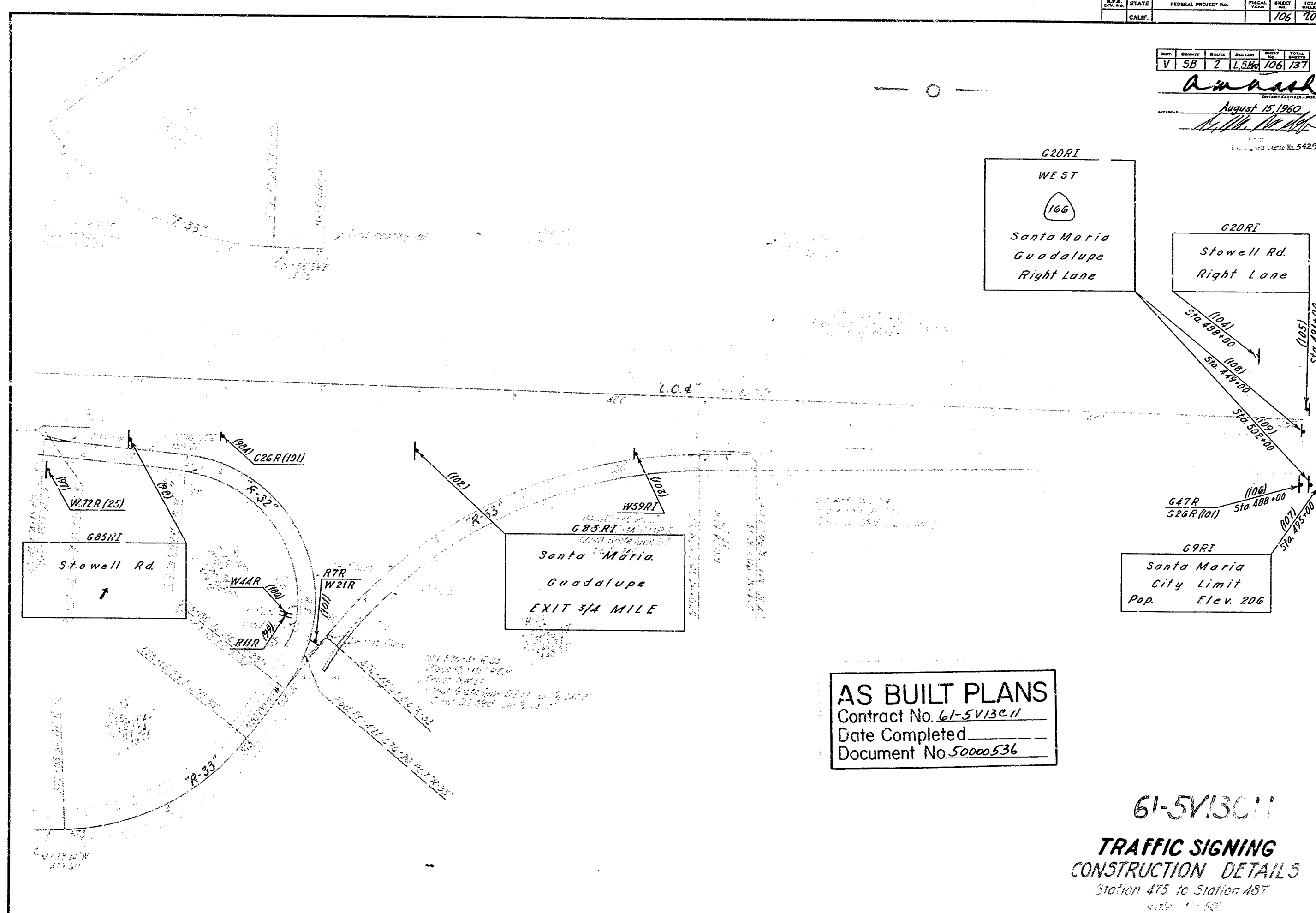
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDS BY	DATE
J. C. Douglas	7/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	<i>[Signature]</i>	7/60

105

105

F.P. No.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET	TOTAL SHEETS
106	CALIF.			106	204

V 5B 2 1.366 106 137
Amash
 August 15, 1960
 [Signature]
 License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13011
 Date Completed _____
 Document No. 50000536

61-5V13011
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 475 to Station 487
 Date: 8/15/60

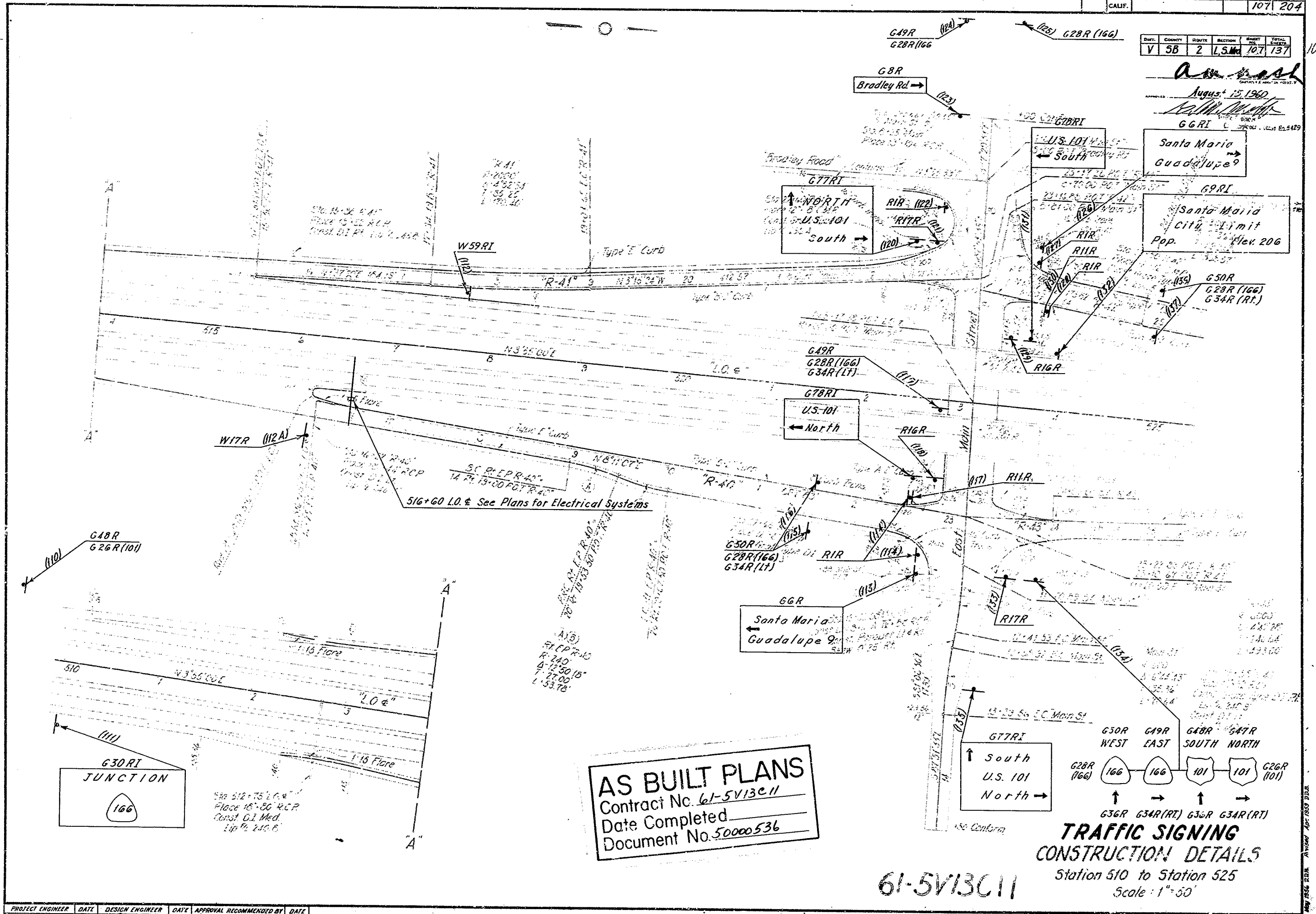
PROJECT	ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
A.C. Dryden		7/60	[Signature]	7/60		[Signature]	7/60

106

106

7

Am. Wash.
 August 15, 1960
Paul M. Washburn
 G.G.R.I. C. 3000 - 102 B.S. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 510 to Station 525
 Scale: 1" = 50'

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J. C. Dryden	2/60	<i>Paul M. Washburn</i>	7/60		<i>G. G. R. I.</i>	2/60

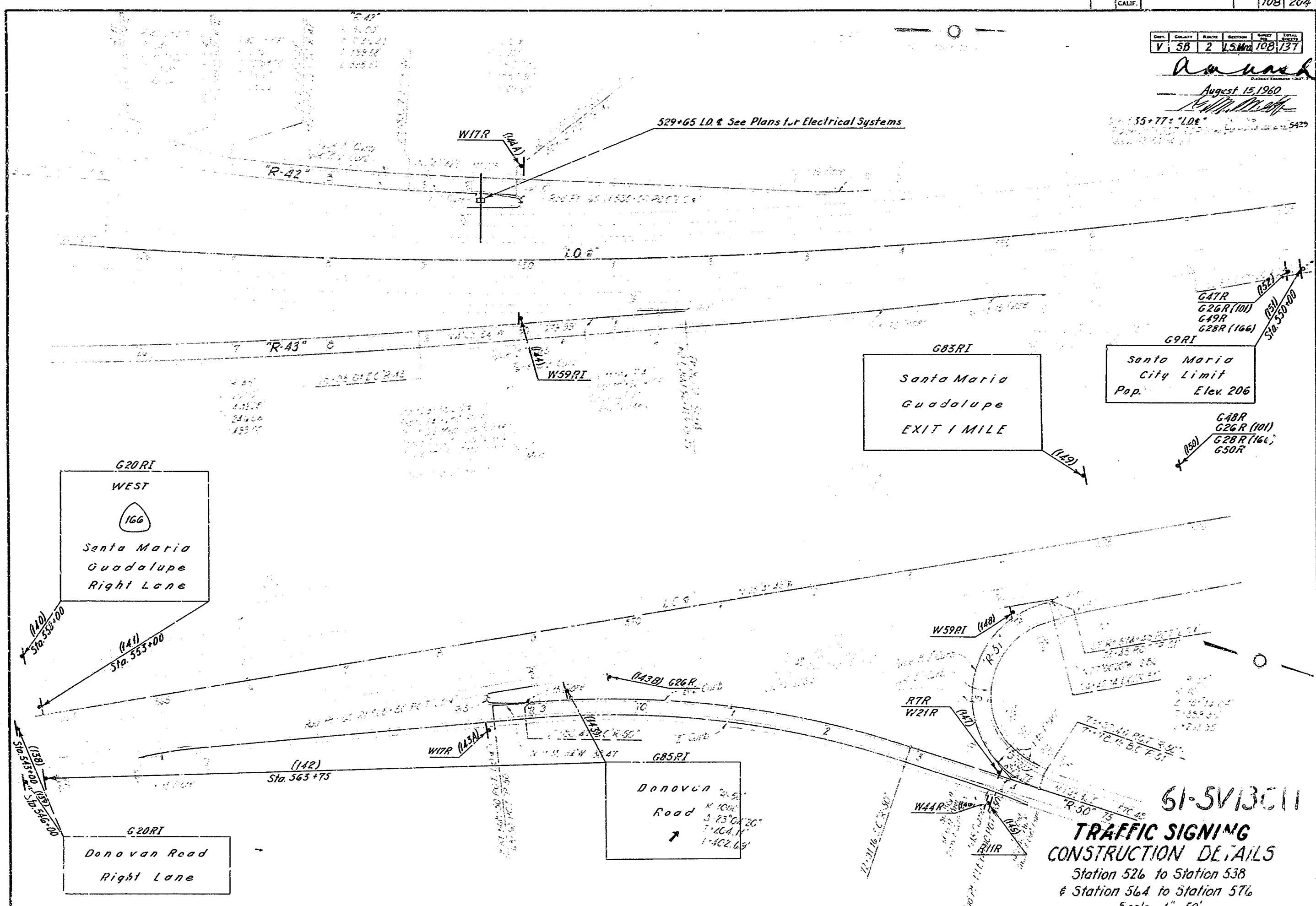
107

107

8

Amundson
August 15, 1960

35+77+1.00
5425



61-5V13C11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
Station 526 to Station 538
& Station 564 to Station 576
Scale 1" = 50'

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 52000536

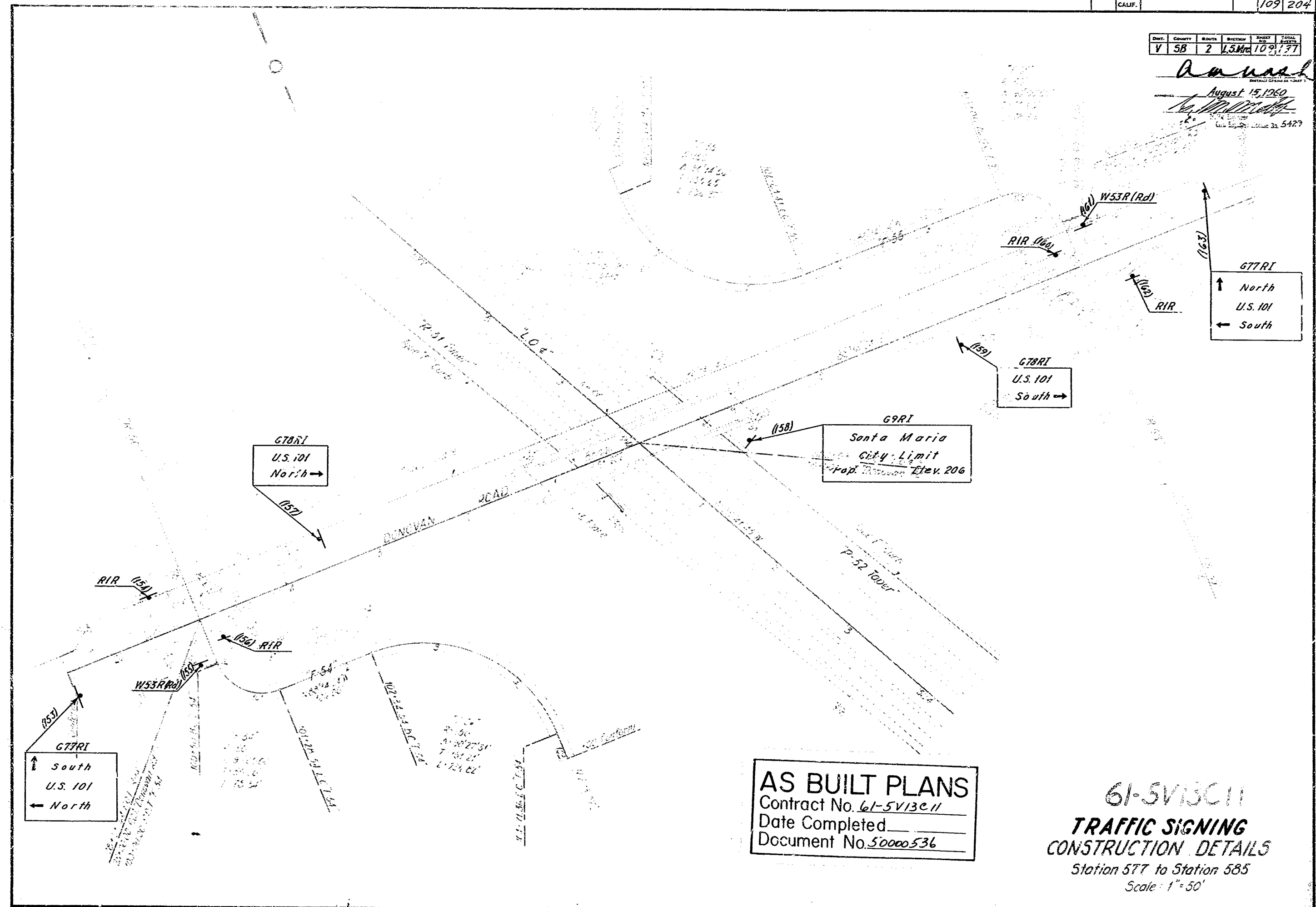
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PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
J. E. Dwyer	2/60	[Signature]	2/60	[Signature]	2/60

Dist.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
VI	CALIF.			109	204

Dist.	County	Route	Section	Sheet	Total
VI	SB	2	1.5 Mile	109	204

Amund
 August 15, 1960
 [Signature]
 [Stamp]



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11
TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 577 to Station 585
 Scale: 1" = 50'

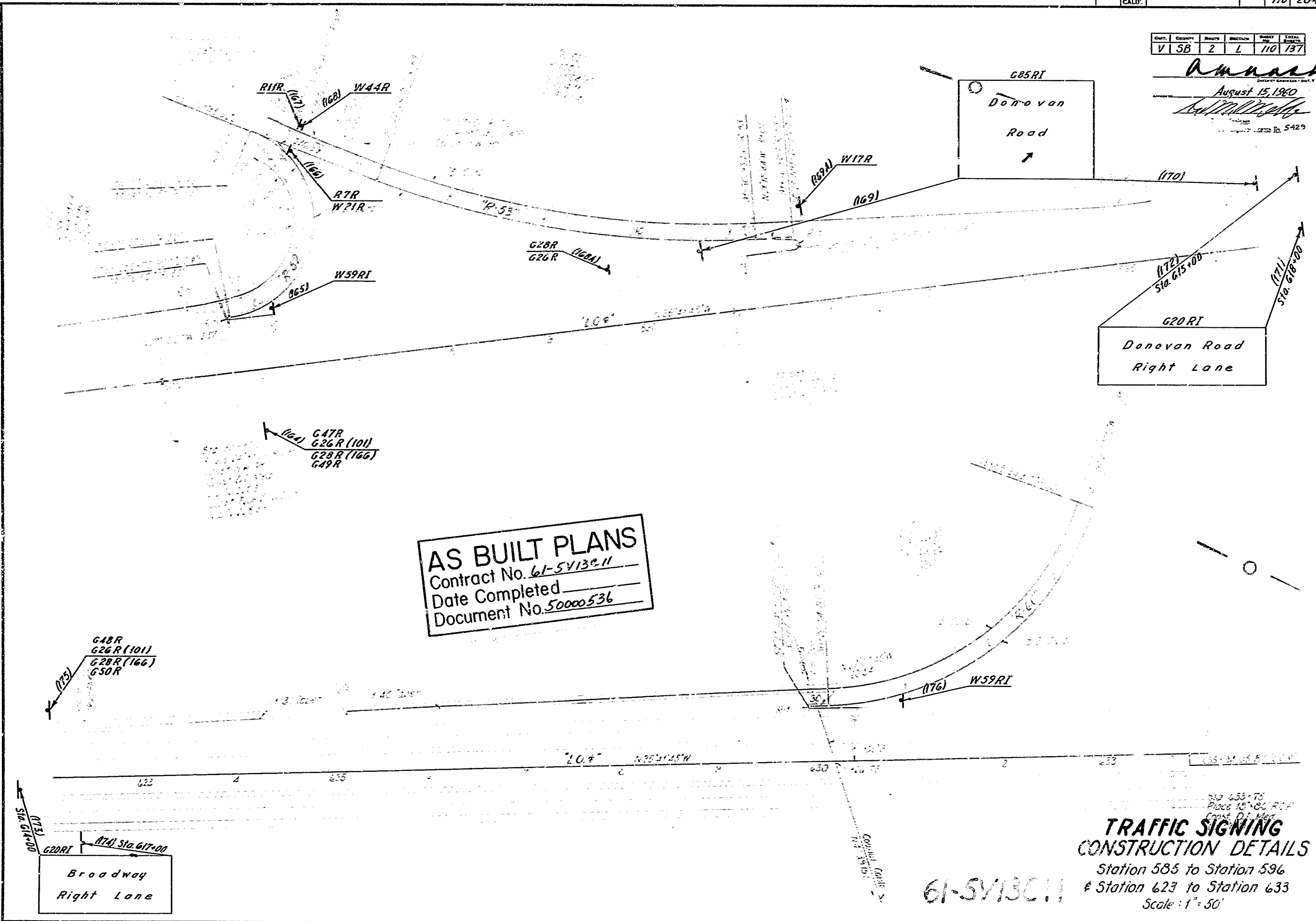
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
G. C. Dwyer	2/60	[Signature]	3/60	G. C. Dwyer	2/60

109

F.P.C. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			110	204

DEPT.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	2	L	110	137

Amnash
 August 15, 1960
[Signature]
 5429



AS BUILT PLANS
 Contract No. 61-5V13C.11
 Date Completed _____
 Document No. 50000536

**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 585 to Station 596
 & Station 623 to Station 633
 Scale: 1" = 50'

61-5V13C.11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	RECOMMENDED BY	DATE
J.E. Dryden	2/60	[Signature]	7/60	[Signature]	[Signature]	2/60

110

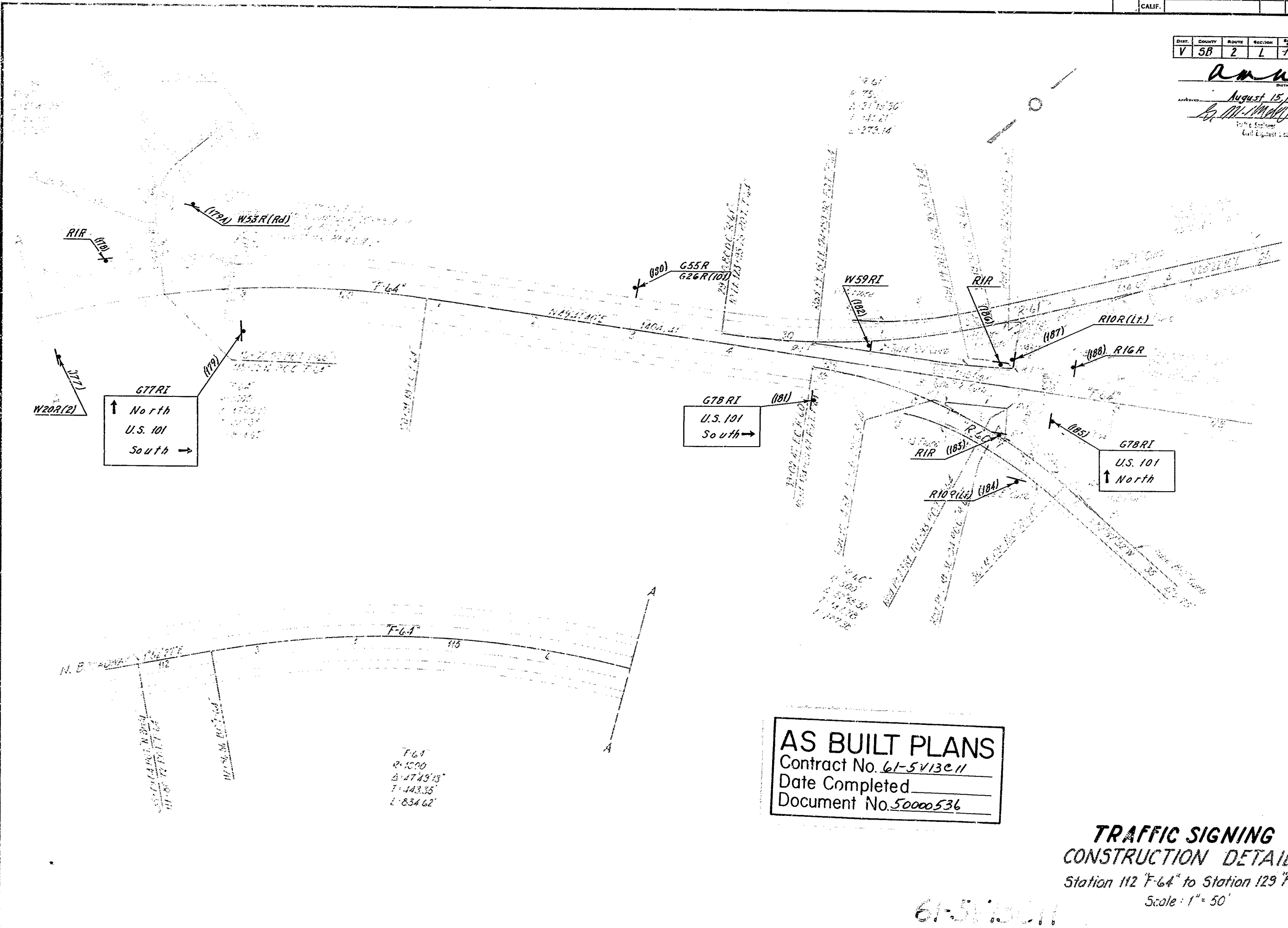
110

110

FED. DIST. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			111	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	2	L	111	137

Russell
 August 15, 1960
 L. M. M...
 Civil Engineer License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 112 F-64 to Station 129 F-64
 Scale: 1" = 50'

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL DESIGNED BY	DATE
J. C. Dwyer	7/60	H. B. ...	7/60	L. A. ...	7/60

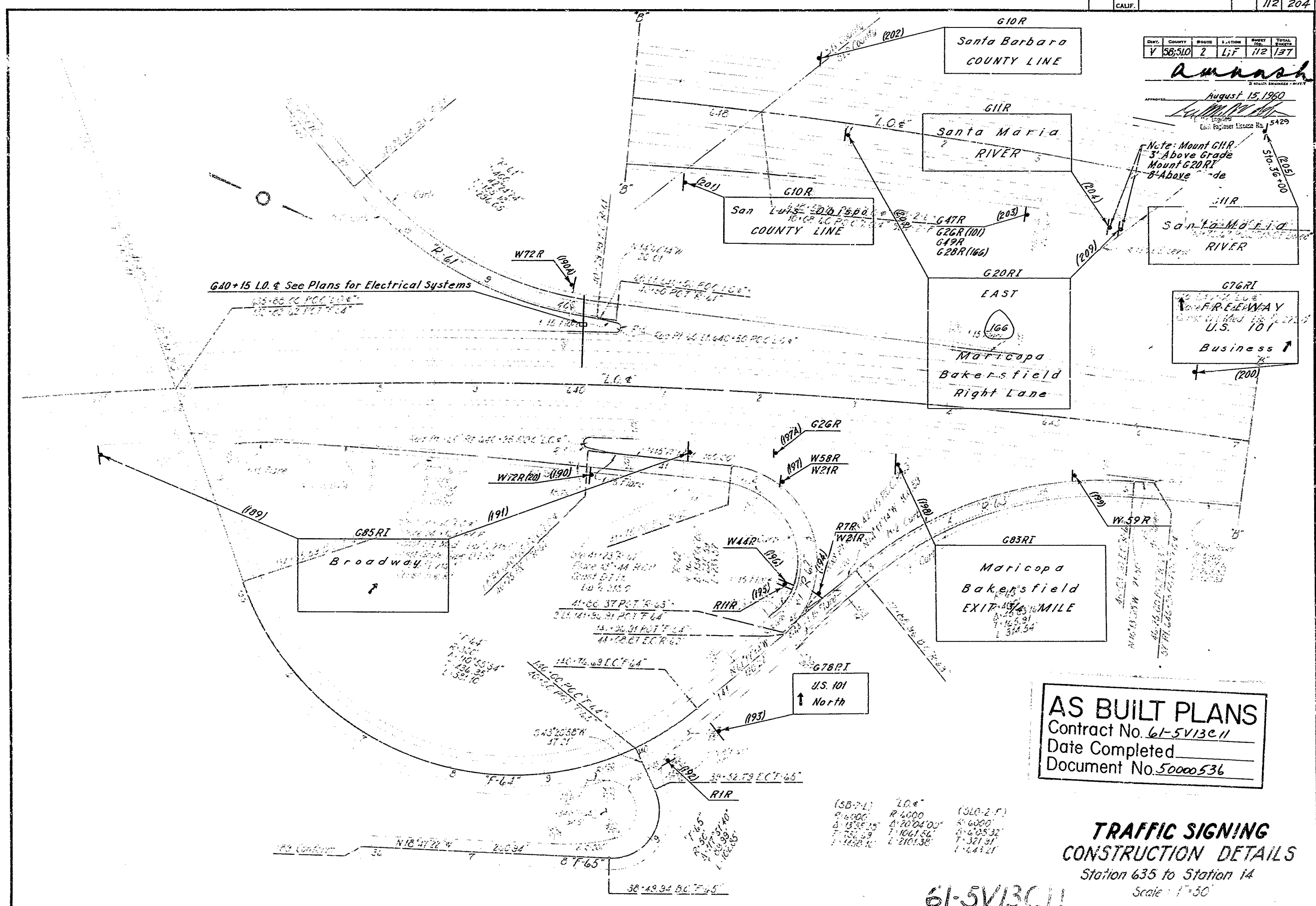
F.P. NO.	STATE	FEDERAL PROJECT N.O.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	CALIF.			112	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
Y	56	510	2	112	137

Ambush
August 15, 1960

Exp. License No. 5429

Note: Mount G.R. 3' Above Grade
Mount G20.R. 8' Above



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

**TRAFFIC SIGNING
CONSTRUCTION DETAILS**
Station 635 to Station 14
Scale: 1"=50'

61-5V13C11

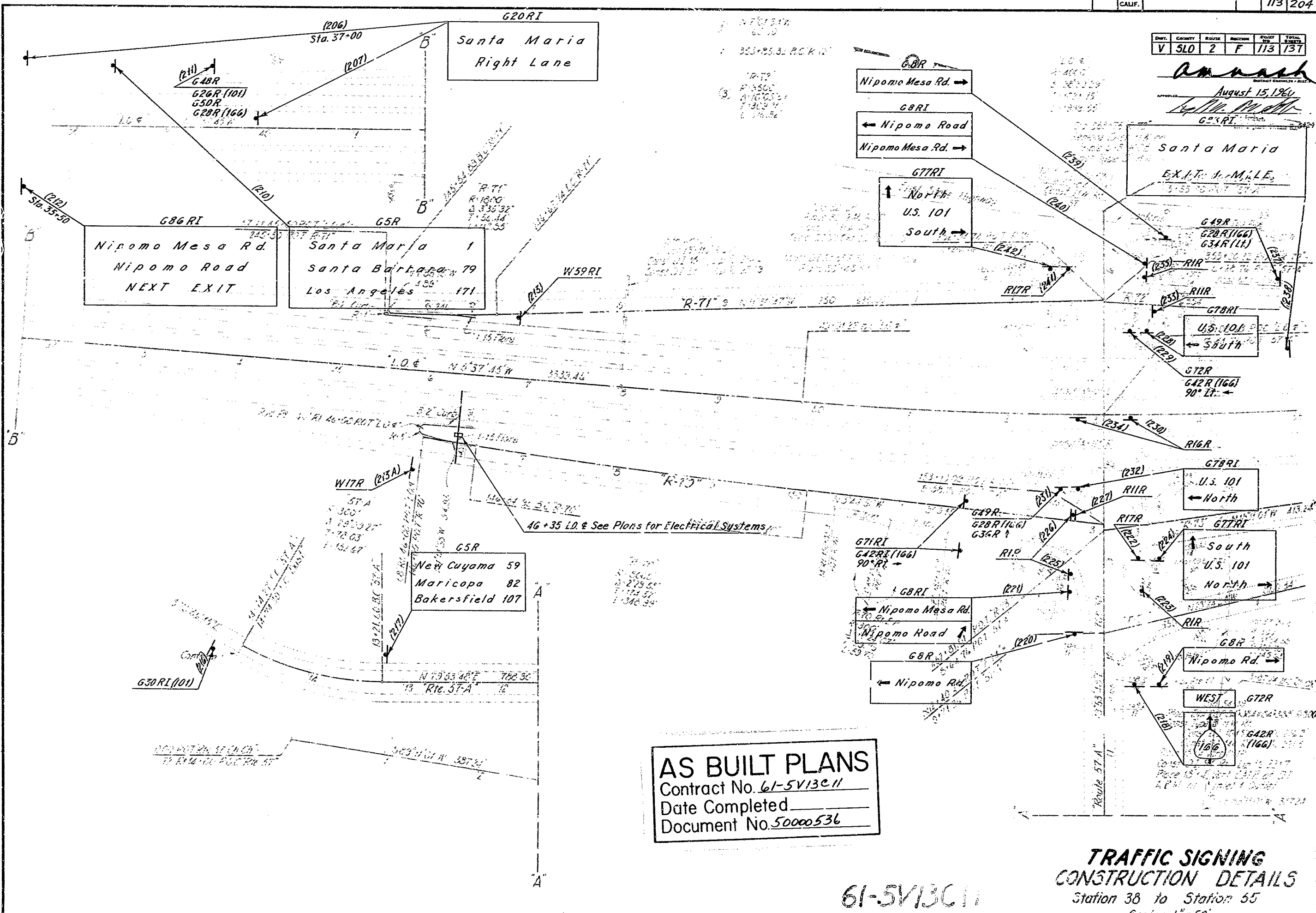
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL	DATE
A. C. Dwyer	7/60	John Smith	7/60	A. C. Dwyer	7/60

112

DIST.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
CALIF.			113	204

DIST.	COUNTY	ROUTE	SECTION	POST MILE	TOTAL SHEETS
V	SLD	2	F	113	137

Amnash
August 15, 1961
[Signature]



AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

TRAFFIC SIGNING
CONSTRUCTION DETAILS
Station 38 to Station 55
Scale: 1" = 50'

61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	SPECIAL RECOMMENDATORY	DATE
J. E. Dinger	2/60	[Signature]	3/60	[Signature]	3/60

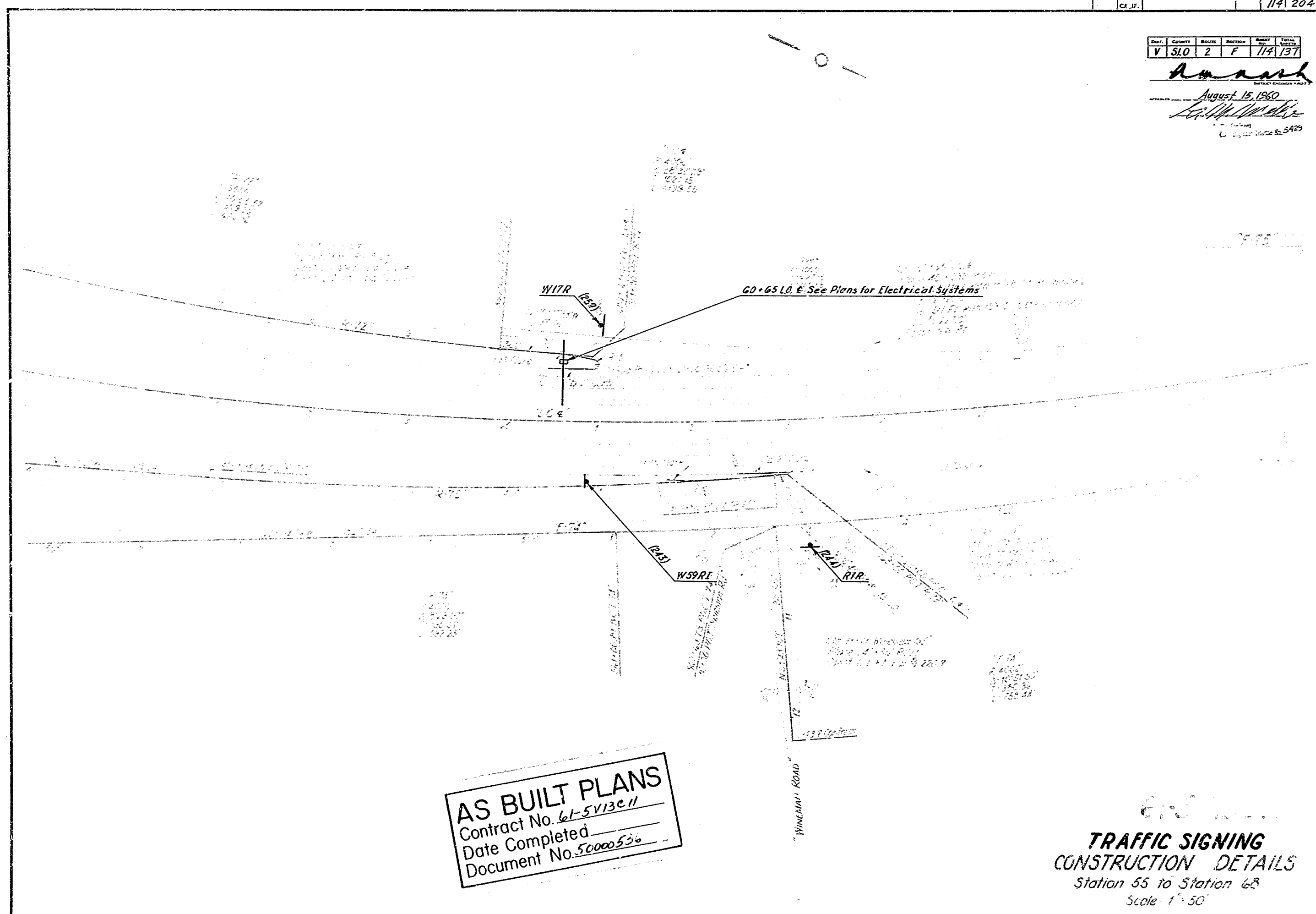
113

144

R.P. NO.	STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
114	CA			114	204

DIST.	COUNTY	SECTION	TRACT	BLK.	LOT
V	SLO	2	F	117	137

Amash
 August 15, 1960
[Signature]
 License No. 5429



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 5000536

**TRAFFIC SIGNING
 CONSTRUCTION DETAILS**
 Station 55 to Station 68
 Scale 1" = 50'

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
<i>[Signature]</i>	2/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	7/60

x 114

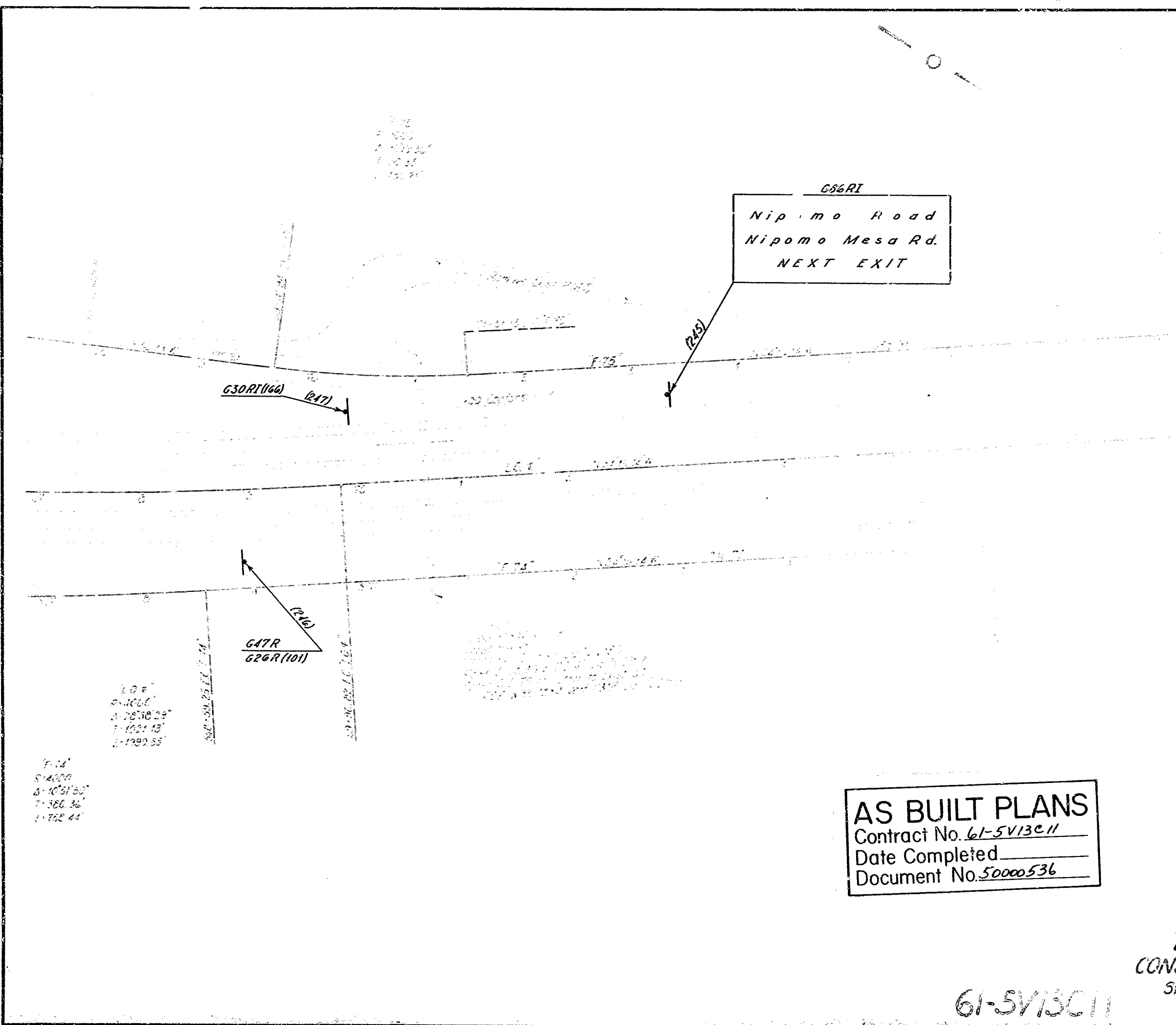
FORM 1259 (1958)

STATE	FEDERAL PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.			115	204

DATE	COUNTY	ROUTE	SECTION	POST MILES
V	510	2	F	115.137

Amunash
 August 15, 1960
Bill Mott
 License No. 5429

626RI
 Nipomo Road
 Nipomo Mesa Rd.
 NEXT EXIT



1.0 F
 5-1000
 5-1000 25'
 7-1001 13'
 1-1000 55'

7-12'
 5-1000
 5-1001 25'
 7-1000 36'
 1-1000 44'

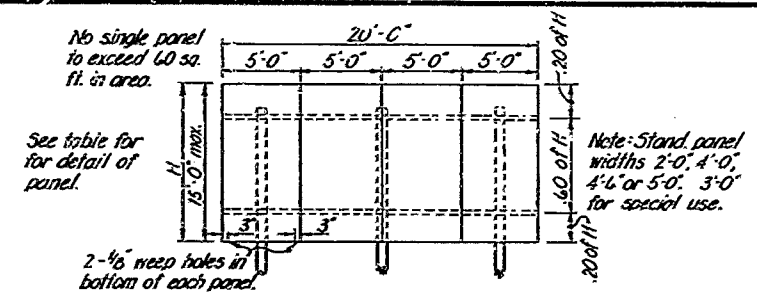
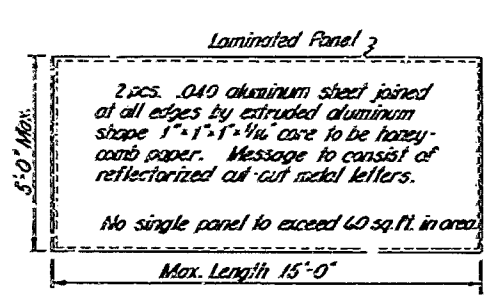
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

TRAFFIC SIGNING
CONSTRUCTION DETAILS
 Station 67 to Station 80
 Scale 1" = 50'

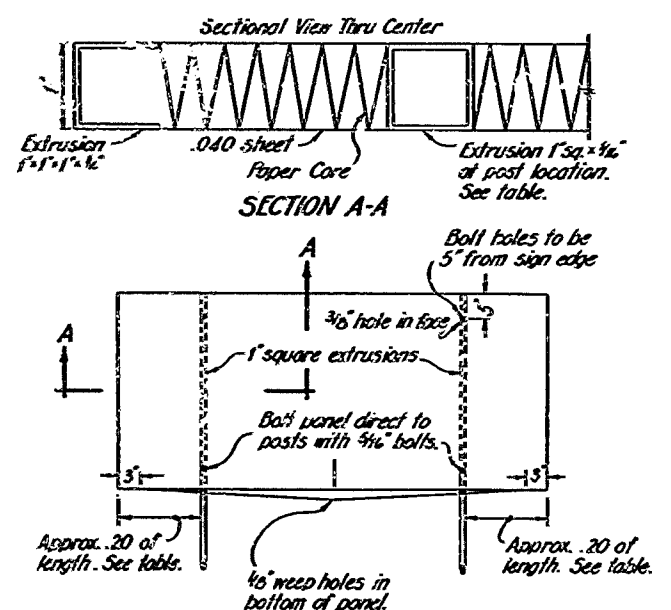
61-5V13C11

PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVE RECOMMENDED BY	DATE
J.C. Dwyer	7/60	<i>[Signature]</i>	7/60	<i>[Signature]</i>	7/60

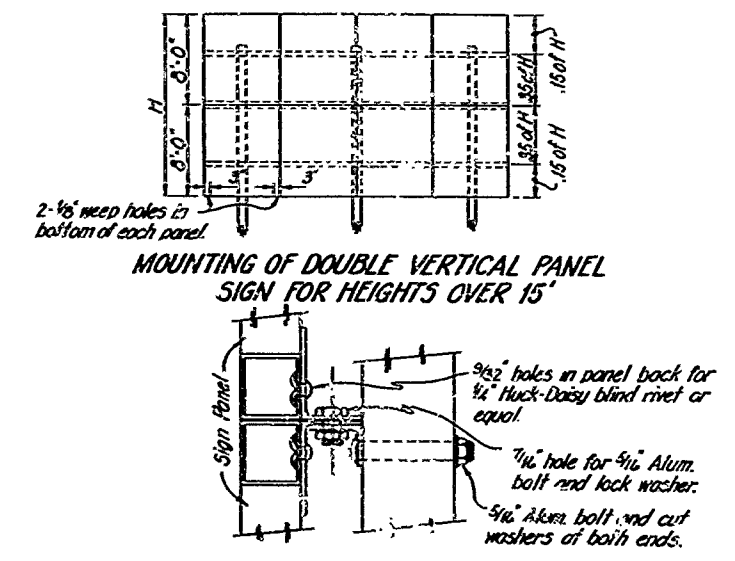
115



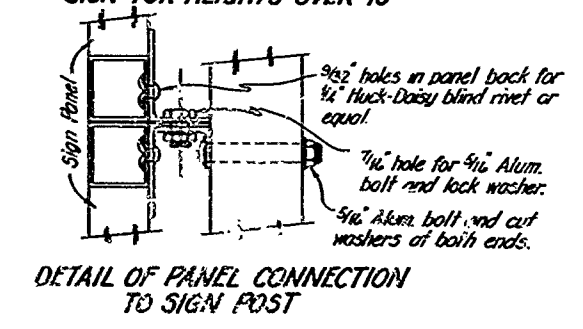
MOUNTING OF MULTIPLE VERTICAL PANEL SIGN FOR HEIGHTS UP TO 15'



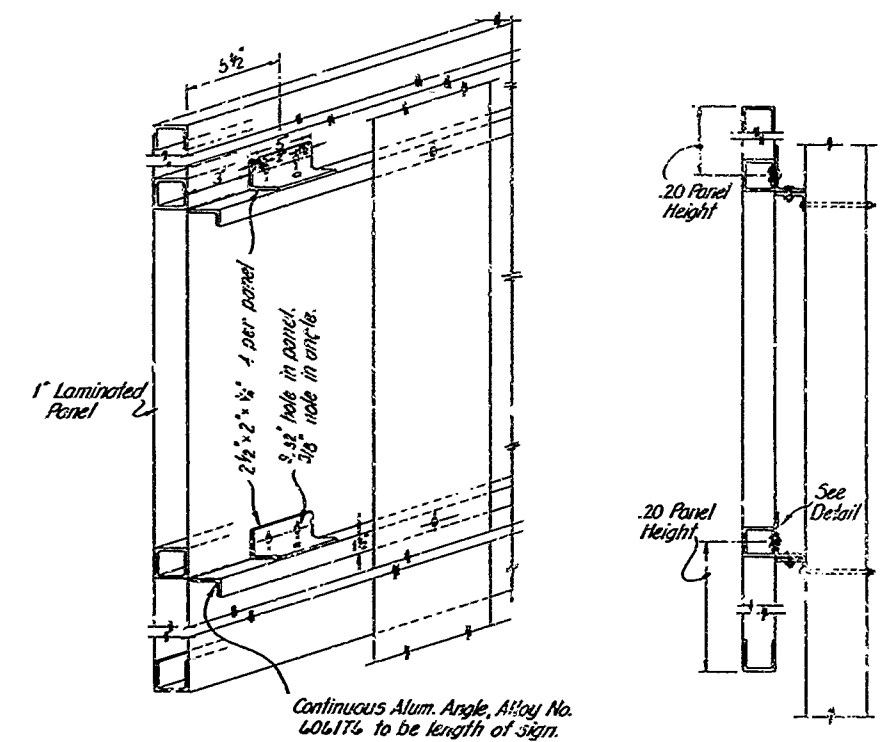
SINGLE HORIZONTAL PANEL FOR ALUMINUM SIGNS



MOUNTING OF DOUBLE VERTICAL PANEL SIGN FOR HEIGHTS OVER 15'



DETAIL OF PANEL CONNECTION TO SIGN POST



METHOD OF INSTALLING VERTICAL PANELS

Dist.	Conv'y	Mount	Section	Dist.	Total
V	186	SLC	2	US No. 1	116 / 137

Amnast
August 15, 1960
5429

- Steel Notes:
- All steel pipes will be hot-dipped galvanized after fabrication.
 - Size of pipe is American Institute of Steel Construction Specifications.
 - Top of pipe will be capped with 1/2" plate.
 - Apply aluminum impregnated caulking compound between contact surfaces of aluminum and steel.
 - One splice permitted in pipe under 40' in length. Two splices for over 40' in length.

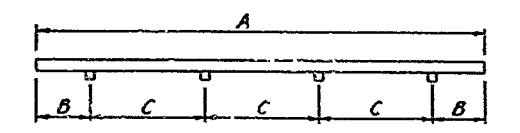
H Ft.	S Ft.	Pipe Size in. / lb/ft.	D (b-b) Ft.	D (b-b) End in Conc. Ft.
7	6	6 (18.37)	7	5
8	8	8 (24.7)	8	6
10	8	8 (24.55)	9	7.5
12	10	10 (31.20)	9	7.5
9	8	8 (24.70)	7	5.5
8	8	8 (24.70)	8	7.0
10	10	10 (31.20)	8	8.0
12	10	10 (31.20)	9	8.0
11	8	8 (24.70)	7	5.5
8	8	8 (24.55)	8	6.5
10	10	10 (31.20)	8	7
12	10	10 (31.20)	9	7.5
13	8	8 (24.70)	8	6
8	10	10 (31.20)	8	7
10	10	10 (31.20)	9	7.5
12	10	10 (31.20)	10	8
15	8	8 (24.70)	8	6.5
8	10	10 (31.20)	8	7
10	10	10 (31.20)	9	7.5
12	12	12 (43.77)	10	8
17	8	8 (24.55)	8	7
8	10	10 (31.20)	9	7
10	10	10 (31.20)	10	8
12	12	12 (43.77)	10	8

TABLE FOR STEEL POST DESIGN (Based on length [L] of 7.5 ft. per post.)

AS BUILT PLANS
Contract No. 61-5V13C-11
Date Completed
Document No. 50000536

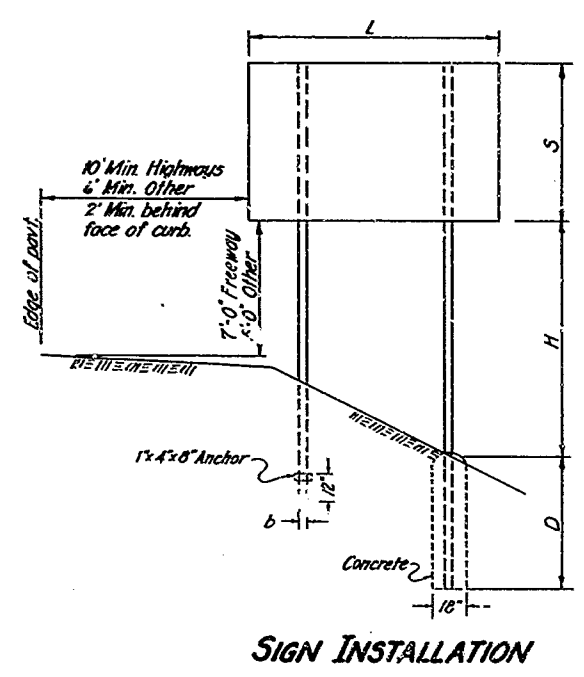
Length of Sign	Type of Panel	No. Posts	Overhang B	Post Spacing C
0 to 4'-4"	Horizontal	2	None	Var.
5'-0"	-	-	12"	3'-6"
6'-0"	-	-	12"	4'-0"
6'-6"	-	-	15"	4'-0"
7'-0"	-	-	15"	4'-6"
7'-6"	-	-	15"	4'-6"
8'-0"	-	-	18"	5'-0"
8'-6"	-	-	20"	5'-2"
9'-0"	-	-	22"	5'-4"
9'-6"	-	-	23"	5'-8"
10'-0"	-	-	24"	6'-0"
10'-6"	-	-	24"	6'-6"
11'-0"	-	-	24"	7'-0"
11'-6"	-	-	27"	7'-0"
12'-0"	-	-	30"	7'-0"
12'-6"	-	-	30"	7'-6"
13'-0"	-	-	30"	8'-0"
14'-0"	-	-	30"	8'-6"
14'-6"	-	-	30"	9'-0"
15'-0"	-	-	36"	9'-6"
16'-0"	-	-	36"	9'-0"
16'-6"	Vertical	3	24"	4'-0"
18'-0"	-	-	24"	9'-0"
20'-0"	-	-	30"	7'-6"
22'-0"	-	-	36"	8'-0"
24'-0"	-	-	36"	9'-0"
26'-0"	-	-	36"	9'-0"
28'-0"	-	-	24"	8'-0"
30'-0"	-	-	36"	8'-0"
32'-0"	-	-	36"	8'-8"

POST SPACING TABLE FOR LAMINATED PANEL SIGNS



Length of Sign	Type of Panel	No. Posts	Overhang B	Post Spacing C
0 to 4'-4"	Horizontal	1	None	Var.
4'-4" to 5'-0"	-	2	None	Var.
5'-0"	-	-	None	4'-8"
5'-6"	-	-	3"	5'-0"
6'-0"	-	-	3"	5'-0"
6'-6"	-	-	3"	5'-0"
7'-0"	-	-	12"	5'-0"
7'-6"	-	-	15"	5'-0"
8'-0"	-	-	12"	6'-0"
8'-6"	-	-	15"	6'-0"
9'-0"	-	-	12"	7'-0"
9'-6"	-	-	15"	7'-0"
10'-0"	-	-	12"	8'-0"

POST SPACING TABLE FOR SINGLE SHEET METAL SIGNS



SIGN INSTALLATION

H Max. Ft.	S Ft.	D (b-4) Ft.	D (b-6) Ft.	D (b-8) End in Conc. Ft.
6	2	4	4	-
6	4	5.5	6.5	4.5
6	6	7	8	5.5
6	8	8	9	6
10	2	5.5	4.5	3
4	4	7.5	6	4.5
6	6	9	7.5	5
8	8	8.5	8.5	6
10	-	-	-	6.5
11	2	4	5	3
4	4	7.5	6.5	4.5
6	6	9	8	5.5
8	8	-	9	4
10	-	-	-	7
13	2	4	5	3.5
4	4	8	7	4.5
6	6	8	8	5.5
8	8	9	9	6
10	-	-	-	7

TABLE FOR MINIMUM DEPTH OF POST (Based on length [L] of 5.0 ft. per post)

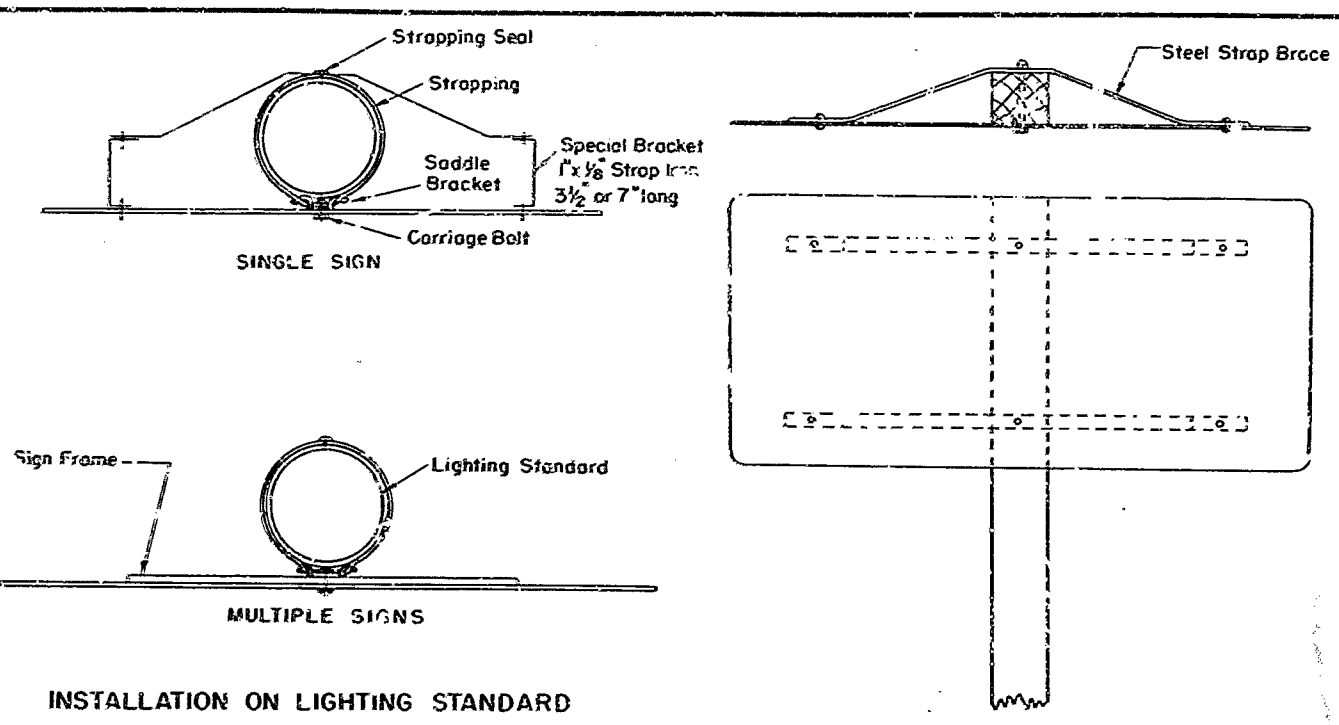
- General Notes:
- Concrete, structure excavation and backfill, mounting of sign to be included in price paid for installing posts.
 - Depth table is for average soil conditions. Extreme soft or hard ground will require greater or less depth as determined by the Engineer.
 - Sign panels to be furnished by the State.
 - Hardware except aluminum angles for joists to be furnished by the state.
 - The location of signs are subject to revision by the Engineer.
 - All wood posts to be treated const. grade Douglas fir or better according to section 03-102A of the Standard Specifications.
 - Concrete in-cased posts are not to be used next to roadway.

61-5V13C11
MISCELLANEOUS DETAILS
Scale: None

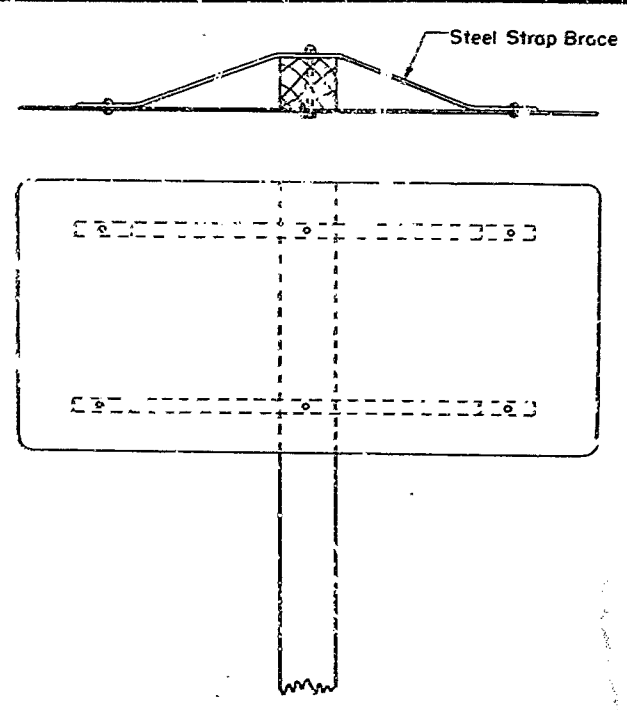
PROJECT ENGINEER: J. E. Simpson DATE: 2/60
DESIGN ENGINEER: [Signature] DATE: 2/60
APPROVAL RECOMMENDED BY: [Signature] DATE: 2/60

To accompany plans dated August 15, 1960
 DISTRICT COUNTY ROUTE SECTION
 7 SB SLO 2 L S M R F 120 137

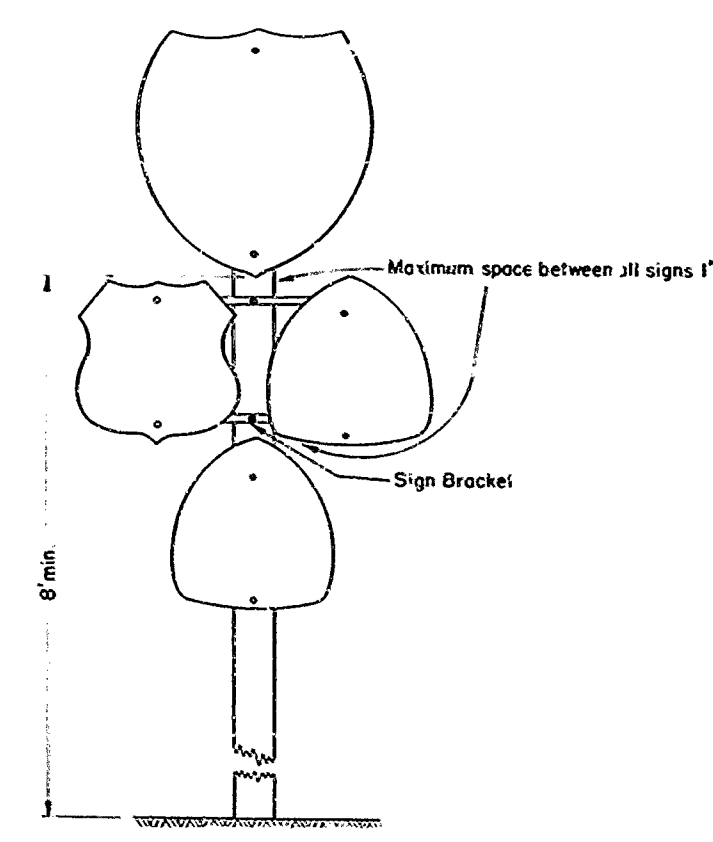
APPROVAL RECOMMENDED
 J. M. Webb
 Traffic Engineer
 Civil Engineer License No. 5429
 Approved February 19, 1960
 State Highway Engineer
 Civil Engineer License No. 5945



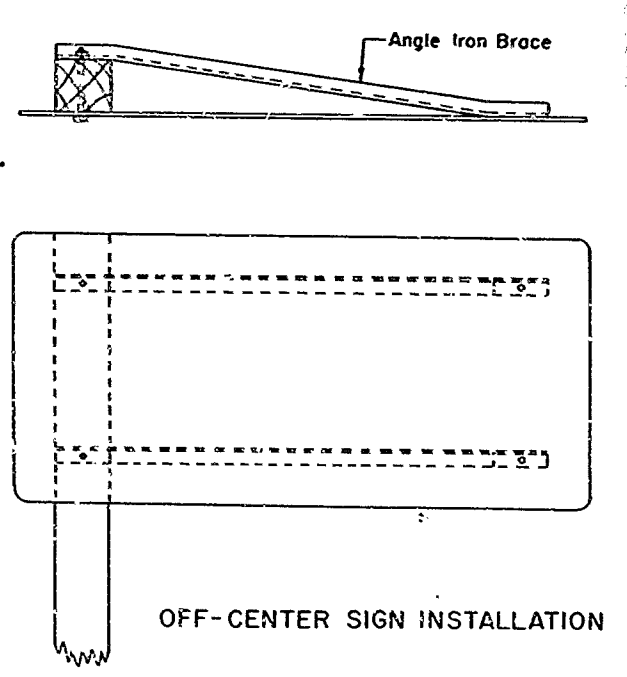
INSTALLATION ON LIGHTING STANDARD



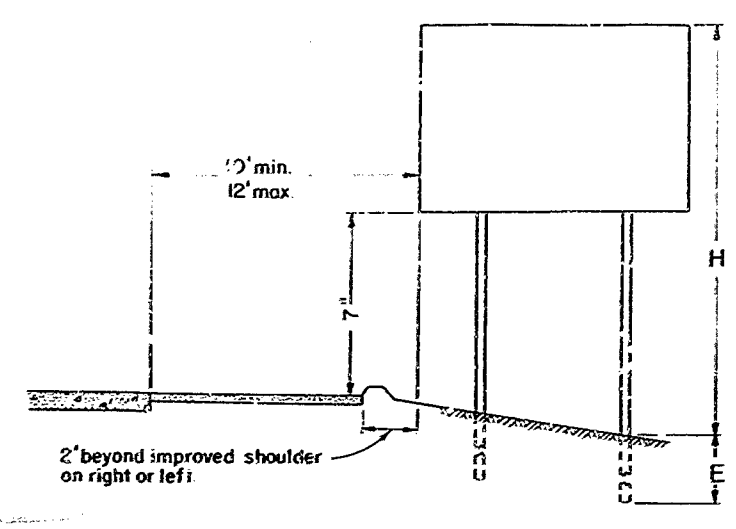
BALANCED SIGN INSTALLATION



MULTIPLE INSTALLATION

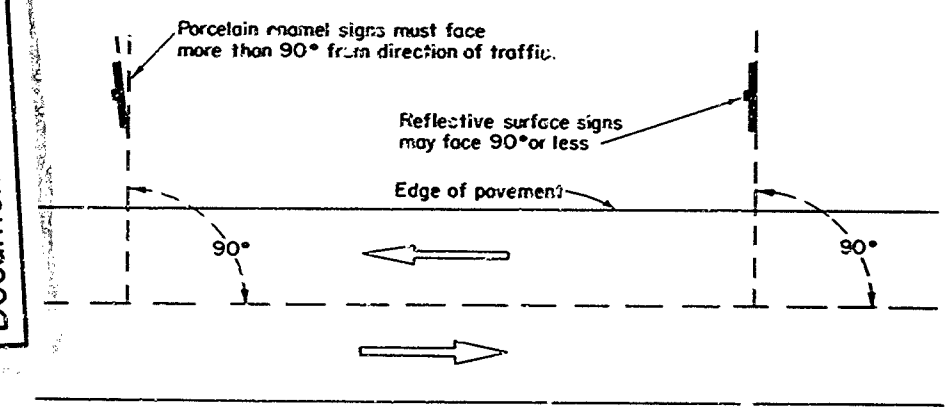


OFF-CENTER SIGN INSTALLATION

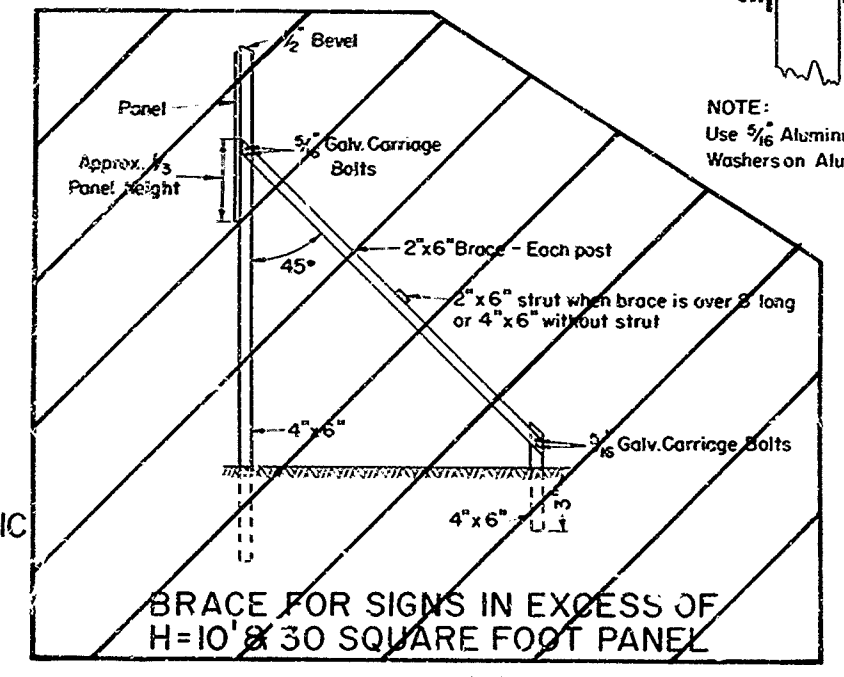


FREEWAY AND EXPRESSWAY LOCATIONS (INCLUDING INTERSTATE ROUTES)

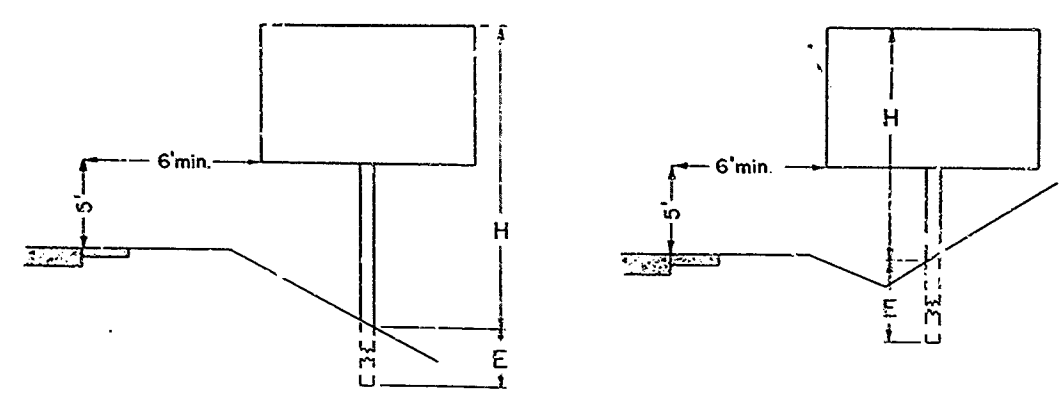
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536



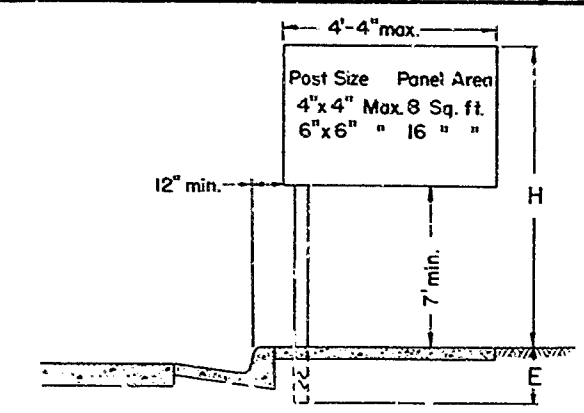
POSITION WITH RELATION TO DIRECTION OF TRAFFIC



BRACE FOR SIGNS IN EXCESS OF H=10' & 30 SQUARE FOOT PANEL



RURAL LOCATIONS



SIDEWALK LOCATIONS

NOTE: Lateral distance to sign edge should be 2' beyond the improved shoulder. The distance from the pavement must allow sufficient clearance for trucks or wide vehicles to park clear of pavement.

POST SPACING TABLE

Length of Sign Panel	Type of Panel	No. Posts	Overhang	Post Spacing
4'-6"	Horizontal	2	None	4'-2"
5'-0"	"	2	3"	4'-8"
5'-6"	"	2	3"	5'-0"
6'-0"	"	2	6"	5'-0"
6'-6"	"	2	9"	5'-0"
7'-0"	"	2	12"	5'-0"
7'-6"	"	2	15"	5'-0"
8'-0"	"	2	12"	6'-0"
8'-6"	"	2	15"	6'-0"
9'-0"	"	2	12"	7'-0"
9'-6"	"	2	15"	7'-0"
10'-0"	"	2	12"	8'-0"

SIGN Length	Square Feet Panel Area	No. of Posts	Post Size	H					
				6'	8'	10'	12'	14'	16'
Max. 4'-4"	Max. 8 Sq. ft.	1	Post Size	4"x4"	4"x4"	4"x6"	4"x6"	4"x6"	4"x6"
			E	3.0	3.0	3.5	3.5	3.5	3.5
4'-4" to 10'	8 to 16	1	Post Size	4"x4"	4"x6"	4"x6"	4"x6"	6"x6"	6"x6"
			E	3.5	3.5	3.5	4.0	4.0	4.0
4'-4" to 10'	8 to 16	2	Post Size	4"x4"	4"x4"	4"x6"	4"x6"	4"x6"	4"x6"
			E	3.5	3.5	4.0	4.0	4.0	4.0
4'-4" to 10'	16 to 30	2	Post Size	4"x6"	4"x6"	4"x6"	6"x6"	6"x6"	6"x6"
			E	3.5	4.0	4.0	4.5	5.0	5.0
4'-4" to 10'	30 to 60	2	Post Size	4"x6"	4"x6"	4"x6"	4"x6"	4"x6"	4"x6"
			E	4.0	4.0	3.0	3.5	3.5	3.5

NOTES

- All sign panels and mounting hardware to be furnished by State.
- Exact size and location of sign posts to be determined by the Engineer.
- All lumber to be S4S.
- When using 4"x6" post place 6" side normal to sign.

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
 61-5V13C11
 TYPICAL INSTALLATION DETAILS
 ROADSIDE SIGNS MAX. L=10' WOOD POSTS S4S

REVISION
DATE
BY
REASON

PROJECT NO.	STATE	SECTION	POST	SHEET	TOTAL SHEETS
7	CALIF.			121	202

Dist.	County	Route	Section	Post	Sheet
V	SB	10	2	121	137

DATE APPROVED August 15, 1960
 [Signature]
 State Highway Engineer

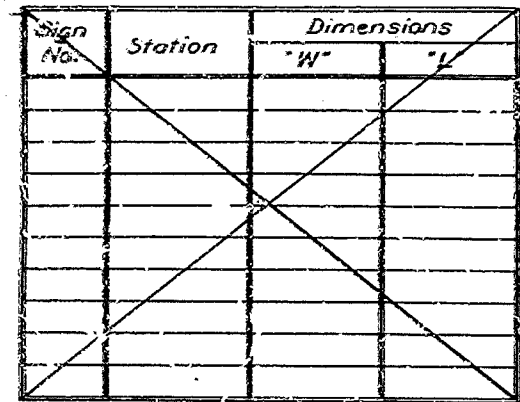


TABLE IV
BALANCED "BUTTERFLY"
SINGLE - FACED

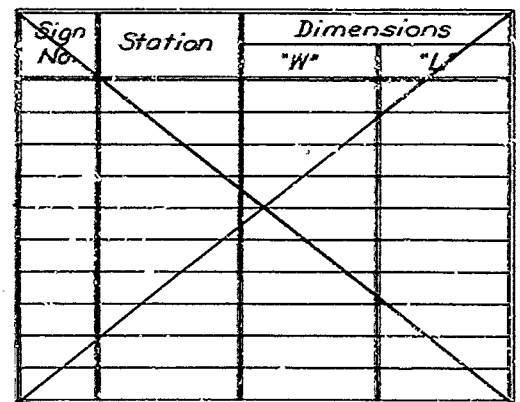


TABLE IV
BALANCED "BUTTERFLY"
DOUBLE - FACED

Sign No.	Station	Dimensions					
		"W"	"L"	"L ₁ "	"P ₁ "	"L ₂ "	"P ₂ "
1	283+75	80"	56'	30'	28'	26'	20'
2	516+60	80"	60'	30'	32'	30'	26'
3	529+85	80"	58'	30'	26'	28'	26'
4	640+15	80"	56'	30'	32'	26'	20'
5	46+35	80"	58'	30'	28'	28'	26'
6	60+65	80"	60'	30'	32'	30'	26'

TABLE IV
UNBALANCED "BUTTERFLY"

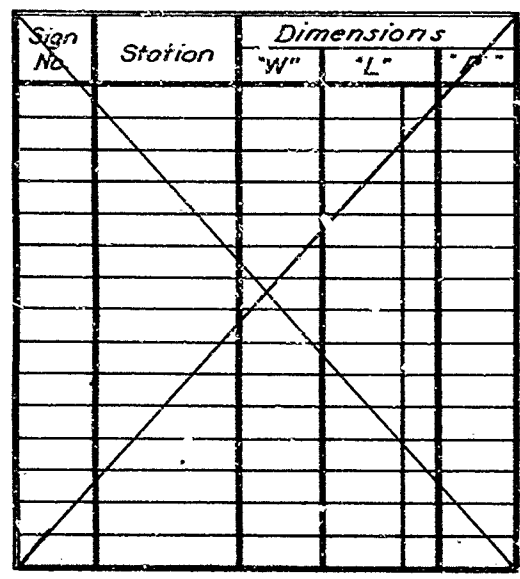


TABLE IV
FULL CANTILEVER

Sign No.	Station	Post Type	"h"	Elevations		
				Elev. 'a'	Elev. 'b'	Elev. 'c'
1	283+75	VI	16'-9"	421.22	404.47	398.97
3	529+85	VI	17'-0"	265.7	248.20	242.40
4	640+15	VI	16'-6"	236.40	219.90	214.40
5	46+35	VI	16'-9"	251.55	234.80	229.20

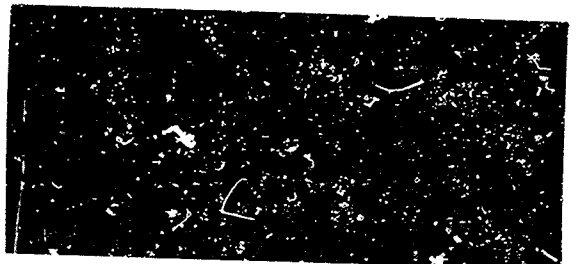
TABLE V
POST — TYPES I THRU VII
(“BUTTERFLY” & FULL CANTILEVER TYPE)

Sign No.	Station	Post Type	"h"	Elevations		
				Elev. 'a'	Elev. 'b'	Elev. 'c'
2	516+60	IV-S	17'-0"	265.4	248.4	242.9
6	60+65	IV-S	17'-3"	245.8	228.5	222.9

TABLE V
POST — TYPES I-S THRU VII-S
(“BUTTERFLY” TYPE)

Sign No.	Station	Sign Frame Size	No. Reqd.
1	283+75	28' x 80"	1
1	283+75	20' x 80"	1
2	516+60	32' x 80"	1
2	516+60	28' x 80"	1
3	529+85	26' x 80"	1
3	529+85	26' x 80"	1
4	640+15	32' x 80"	1
4	640+15	20' x 80"	1
5	46+35	28' x 80"	1
5	46+35	26' x 80"	1
6	60+65	32' x 80"	1
6	60+65	26' x 80"	1

REMOVABLE SIGN PANEL FRAMES
“BUTTERFLY” AND FULL CANTILEVER TYPES



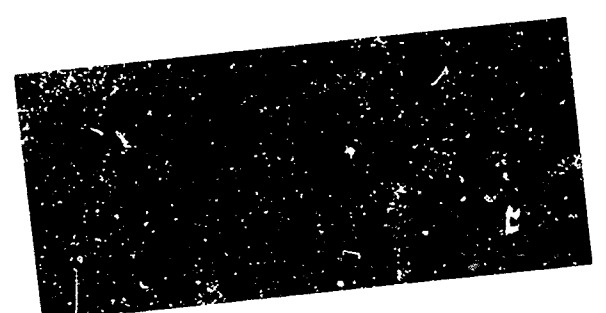
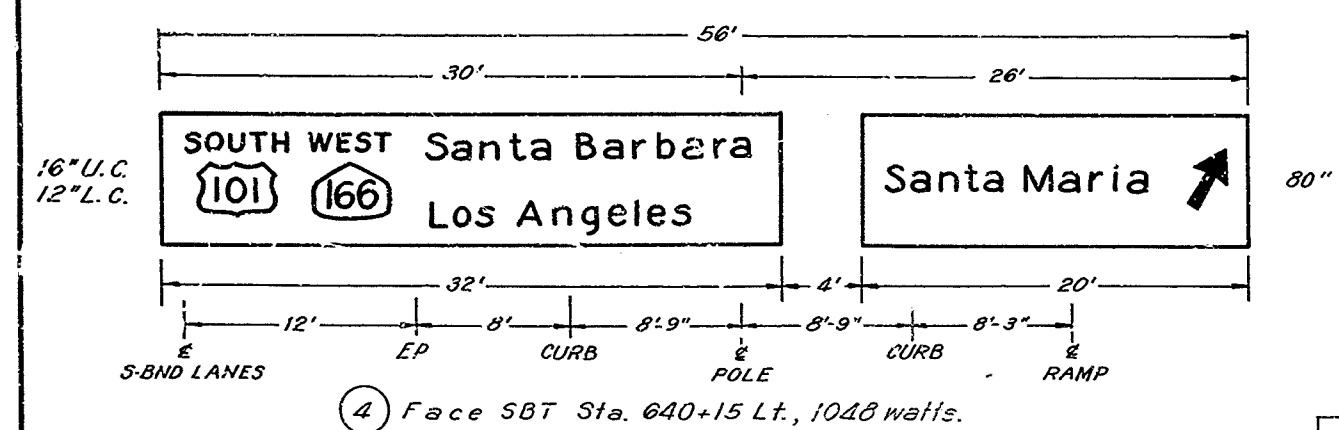
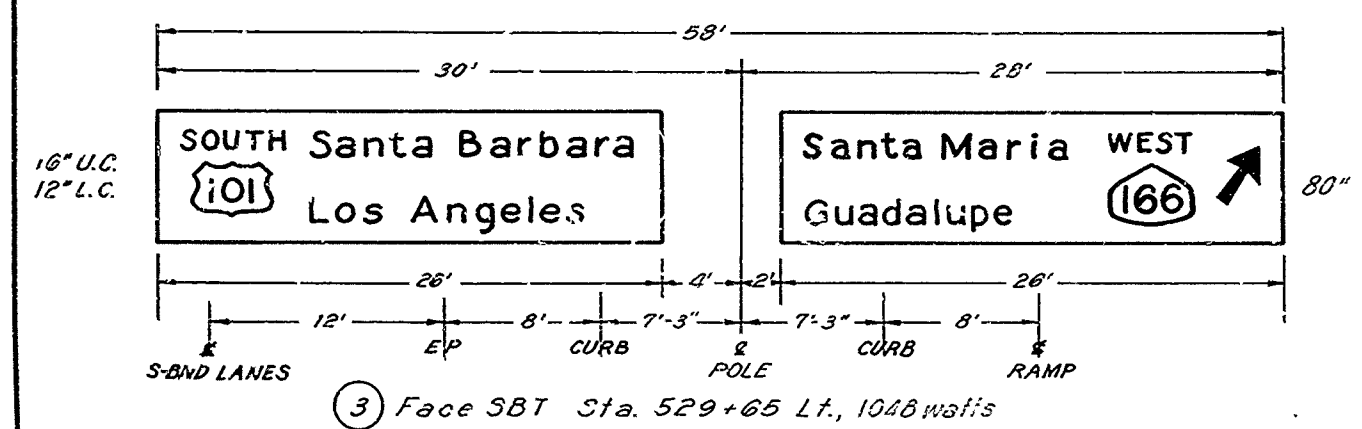
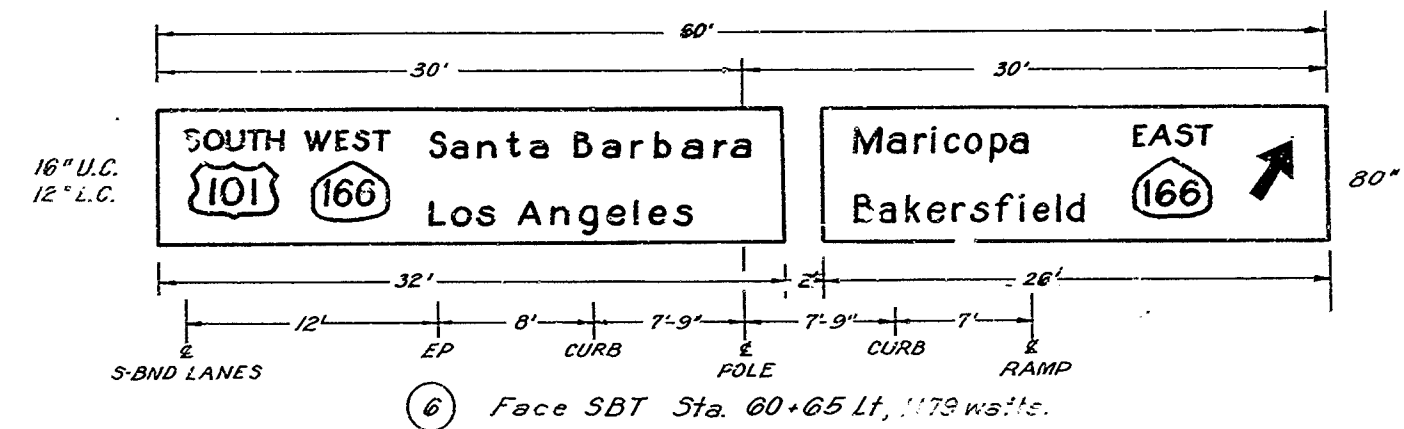
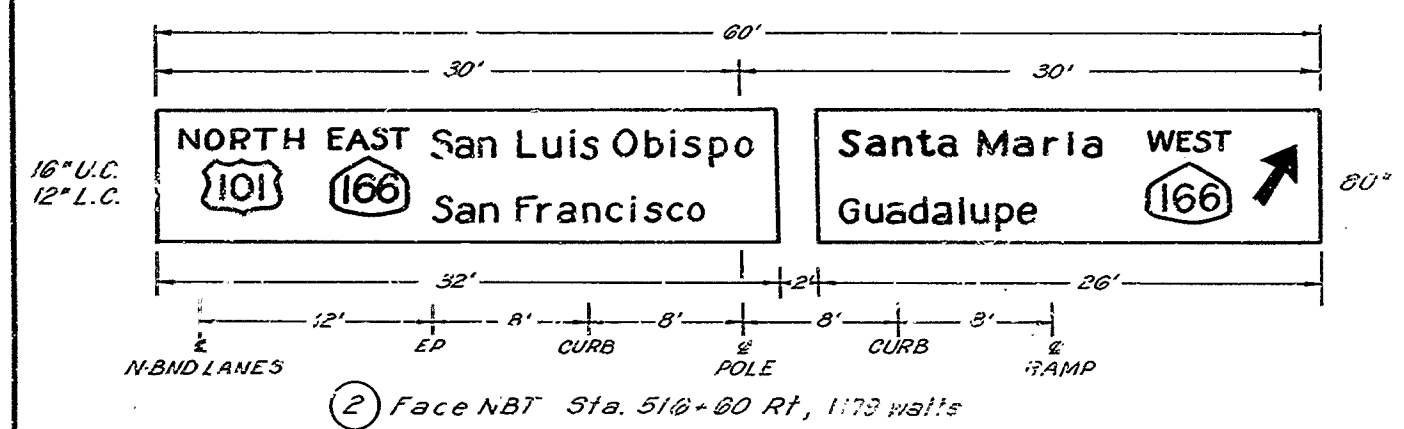
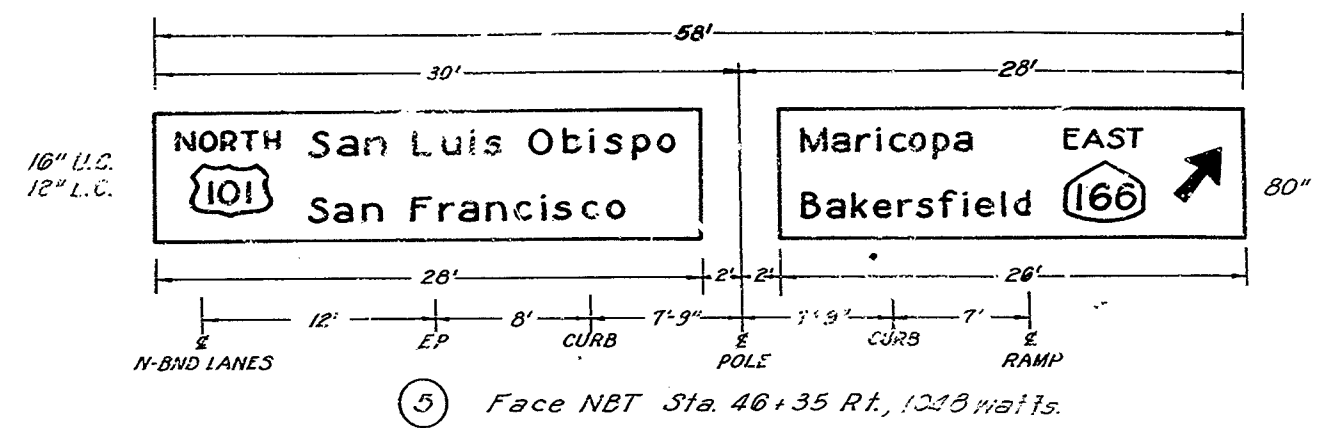
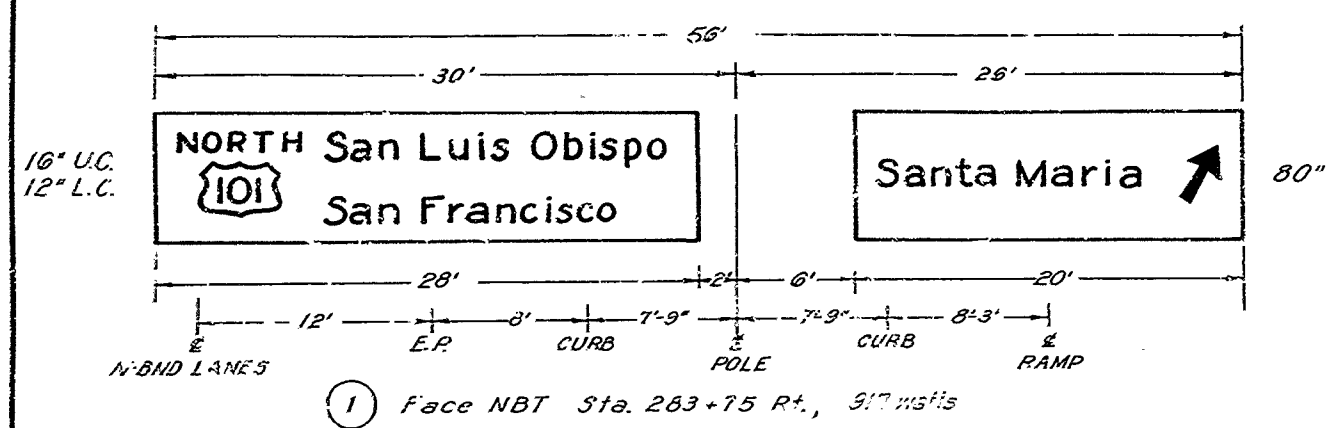
PROJECT ENGINEER	DATE	DESIGN ENGINEER	DATE	APPROVAL RECOMMENDED BY	DATE
G. E. Dwyer	7/60	John Becker	7/60	John Becker	7/60

DESIGN	By	Checked
DETAILS	By JoAnn P. Becker 7/67	Checked J. D. [unclear] 7/67
QUANTITIES	By	Checked
RECAPITULATE	By	Checked
Approved/Recommended by	Signature of Designer	Dist. and stamped by [unclear]

STATE OF CALIFORNIA	DEPARTMENT OF PUBLIC WORKS	DIVISION OF HIGHWAYS
STANDARD OVERHEAD SIGNS		
BUTTERFLY AND FULL CANTILEVER TYPES		
SIGN DATA — SHEET # 1		
SCALE	AS SHOWN	FILE
DRAWING		

PREL. DRAWING NO. P- [unclear]

DATE: COUNTY ROUTE SECTION POST TOTAL
 V SB,SLO 2 V,SMA 122 137
R. M. Nash
 August 15, 1960
 Title Legend: Cal Legend Update No. 507



- INDEX OF OVERHEAD SIGN STRUCTURAL PLANS
 SIGN DATA SHEET NO. 1
- OVERHEAD SIGN FORMAT AND QUANTITIES SHEET.
 S-1 INSTRUCTIONS AND EXAMPLES (BUTTERFLY AND FULL CANTILEVER SIGNS).
 S-5 UNBALANCED BUTTERFLY SIGN FRAMES.
 S-7 POST TYPE SELECTION-UNBALANCED BUTTERFLY SIGN FRAMES 80" THRU 120".
 S-8 JOINT AND MISCELLANEOUS DETAILS (BUTTERFLY AND CANTILEVER).
 S-9 FRAME JUNCTURE DETAILS (BUTTERFLY AND CANTILEVER).
 S-10 POST TYPES I THRU VII (BUTTERFLY AND CANTILEVER).
 S-11 POST TYPES I-5 THRU VII-5
- S-20 REMOVABLE SIGN PANEL FRAMES #1.
 S-21 REMOVABLE SIGN PANEL FRAMES #2.
 S-22 STANDARD WALKWAY DETAILS #1.
 S-23 STANDARD WALKWAY DETAILS #2.
 S-24 WALKWAY SAFETY RAILING DETAILS.
 S-25 WALKWAY MOUNTED BALLAST BOX.
 ES-8 FLUORESCENT SIGN LIGHTING EQUIPMENT.
 S-26 STANDARD GUARD RAIL PROTECTION.

SIGN STRUCTURE QUANTITIES

Sign No.	Station	Str. Exc. C.Y.	Str. Btl. C.Y.	Class "A" P.C.C. C.Y.	Bar. Reinf. Steel Lbs.	Guard Rail Lin. Ft.
1	283+75	34.5	23.0	11.75	675	86
2	516+60	29.5	20.0	9.75	815	86
3	529+65	34.5	23.0	11.75	675	86
4	640+15	34.5	23.0	11.75	675	86
5	46+35	34.5	23.0	11.75	675	86
6	60+65	29.5	20.0	9.75	815	86

NOTE: DO NOT SCALE. 61-5V13011

STAT. OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

OVERHEAD SIGN FORMAT
 AND QUANTITIES SHEET

V-5B; SLO-2-L, SMA; F
 Between 4 Mi. South of Santa Maria and
 Hourihan Grade 54V249

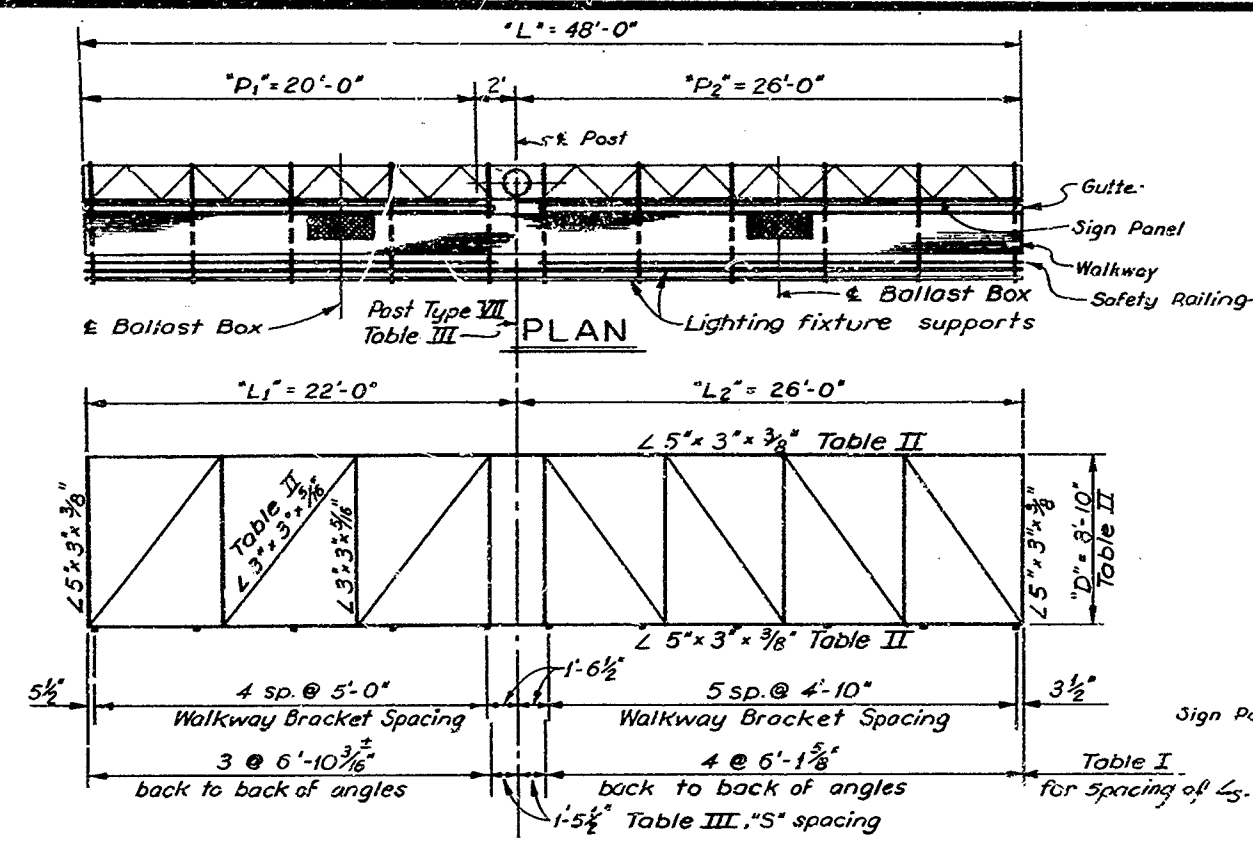
PROJECT ENGINEER DATE DESIGN ENGINEER DATE APPROVAL RECOMMENDED BY DATE
 J. E. Dwyer 7/20 J. L. Smith 7/20 R. G. Lyndall 7/20

122

To accompany plans dated August 15, 1960

REVISIONS
 1. Added Double-Faced Sign Example No. 6
 2. Added Safety Railing Example No. 6

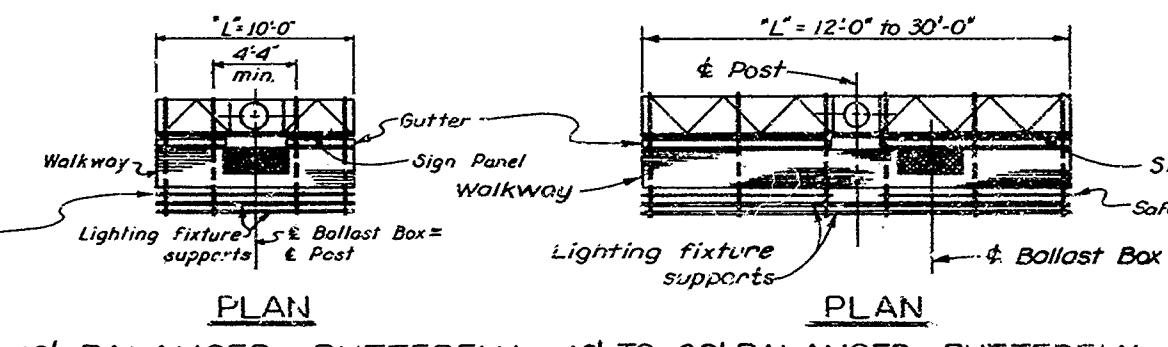
REVISIONS
 1. Added Safety Railing Example No. 6
 2. Added Safety Railing Example No. 6



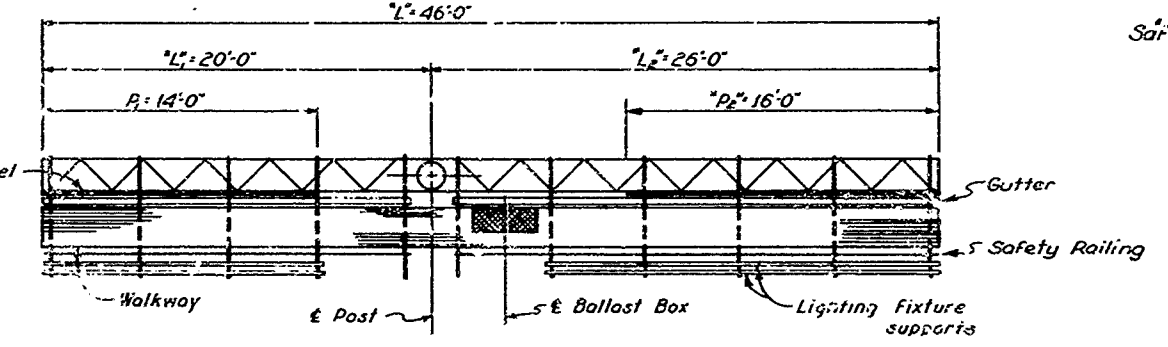
UNBALANCED BUTTERFLY
 EXAMPLE NO. 1

Sign No.	Station	"W"	"L"	"L ₁ "	"P ₁ "	"L ₂ "	"P ₂ "
10	20+00	100'	48'-0"	22'-0"	20'-0"	26'-0"	26'-0"

TABLE NO. IV
 SIGN DATA



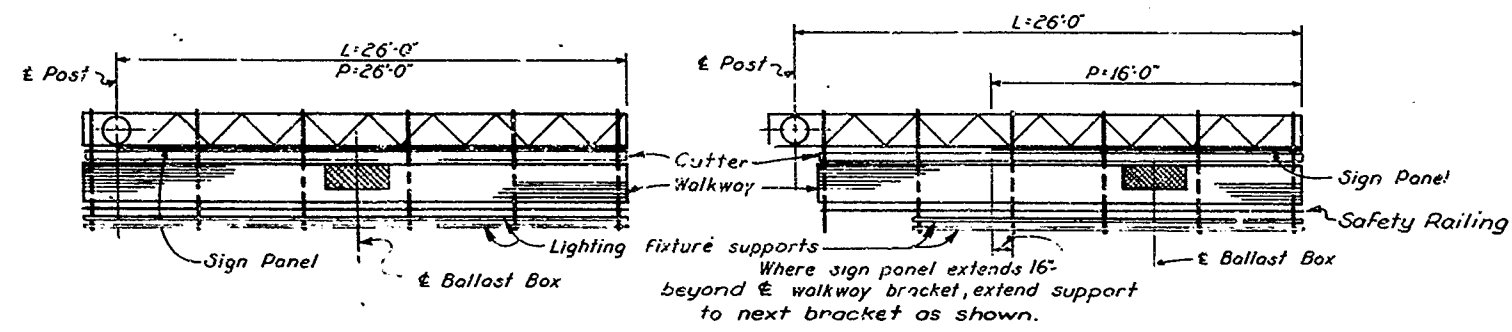
10' BALANCED BUTTERFLY
 EXAMPLE NO. 4



UNBALANCED BUTTERFLY
 EXAMPLE NO. 5

Sign No.	Station	"W"	"L"	"L ₁ "	"P ₁ "	"L ₂ "	"P ₂ "
14	50+00	100'	46'	20'	14'	26'	16'

TABLE NO. IV
 SIGN DATA



PLAN
 EXAMPLE NO. 2
 PLAN
 EXAMPLE NO. 3
 FULL CANTILEVER

Sign	Station	"W"	"L"	"P"
11	30+00 Rt.	100'	26'	26'
12	31+00 Rt.	100'	26'	18'

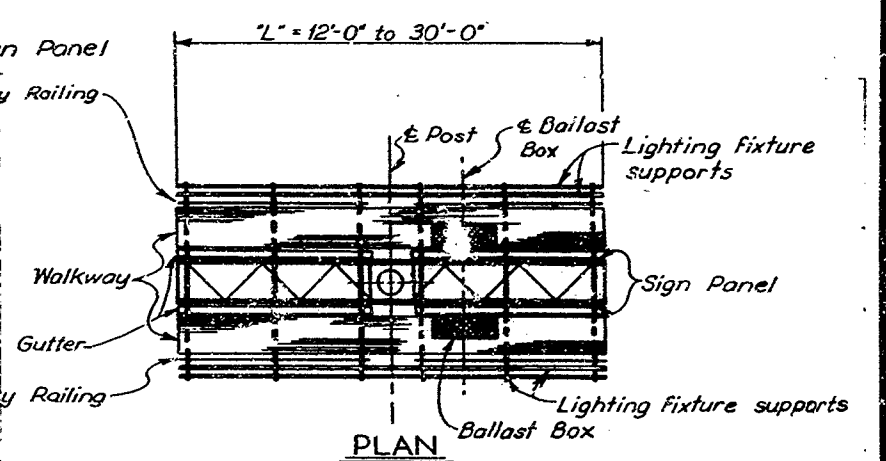
TABLE NO. IV
 SIGN DATA

Note:
 Right cantilever shown.
 Direction of cantilever is noted in column "L" of Table IV.

No. Ballast Boxes	Total Panel Length "P" or "P ₁ " + "P ₂ "	
	"W" 40'-70"	"W" 80'-120"
1	10'-6"	10'-30"
2		32'-60"

TABLE NO. VII
 NUMBER OF BALLAST BOXES

Note: Table based upon maximum of 4 ballasts per box.



12' TO 30' BALANCED BUTTERFLY DOUBLE-FACED SIGN
 EXAMPLE NO. 6

INSTRUCTIONS TO FABRICATOR
 LAYOUT
 SEE TABLE IV ON SIGN DATA SHEETS, SMALL SIGN SKETCH, AND TABLES I, II AND III, ON PLANS. SEE EXAMPLE NO. 1, THIS SHEET.
 SELECTION OF STRUCTURAL MEMBERS
 FOLLOW DIRECTIONS AS SHOWN ON "BALANCED, UNBALANCED, AND/OR FULL CANTILEVER SIGN FRAMES" SHEETS. SEE EXAMPLE NO. 1.
 DETAILS
 REFER TO THE FOLLOWING SHEETS FOR DETAILS NOT SHOWN ON THE PLAN SHEETS:
 1. POST SHEET OR SHEETS
 2. JOINT AND MISCELLANEOUS DETAILS
 3. FRAME JUNCTION DETAILS
 4. WALKWAY DETAILS NO. 1 AND NO. 2
 5. WALKWAY SAFETY RAILING DETAILS
 6. REMOVABLE SIGN PANEL FRAMES NO. 1 AND NO. 2
 7. WALKWAY MOUNTED BALLAST BOX
 8. SIGN DATA SHEETS

BALLAST BOXES
 FOR NUMBER OF BALLAST BOXES REQUIRED SEE TABLE VII ON THIS SHEET.
 FULL CANTILEVER SIGNS - LOCATE BALLAST BOX IN WALKWAY BRACKET SPACE NEAREST TO CENTER OF SIGN PANEL. SEE EXAMPLES NO. 2 AND NO. 3.
 UNBALANCED BUTTERFLY SIGNS - WHERE TWO BALLAST BOXES ARE REQUIRED, MOUNT BALLAST BOXES IN WALKWAY BRACKET SPACE NEAREST TO CENTER OF EACH SIGN PANEL. SEE EXAMPLE NO. 1. WHERE ONLY ONE BALLAST BOX IS REQUIRED PLACE THE BALLAST BOX IN THE WALKWAY BRACKET SPACE ADJACENT TO THE POST AND ON THE SIDE WITH THE LARGER SIGN PANEL. SEE EXAMPLE NO. 5.
 BALANCED BUTTERFLY SIGNS - ON TEN FOOT SIGNS LOCATE BALLAST BOX AT CENTER OF SIGN. SEE EXAMPLE NO. 4. ON ALL OTHERS THE BALLAST BOX MAY BE LOCATED ADJACENT TO AND ON EITHER SIDE OF THE POST. SEE EXAMPLE 4.

WALKWAY BRACKETS
 THE MINIMUM WALKWAY BRACKET SPACING WHERE BALLAST BOXES ARE LOCATED SHALL NOT BE LESS THAN 4'-4". SPACE ALL OTHERS TO SUIT, MAINTAINING UNIFORM SPACING WHERE POSSIBLE. MAXIMUM SPACING SHALL NOT EXCEED 5'-6". SEE EXAMPLE NO. 4.

LIGHTING FIXTURE SUPPORTS
 WHERE DISTANCE FROM WALKWAY BRACKET TO END OF SIGN PANEL EXCEEDS 16" INCHES, EXTEND SUPPORTS TO NEXT WALKWAY BRACKET. SEE EXAMPLE NO. 3.

NOTE:
 SIGNS ARE SHOWN AND DIMENSIONED LOOKING IN THE DIRECTION OF TRAFFIC. DOUBLE-FACED SIGNS ARE SHOWN AND DIMENSIONED LOOKING AHEAD ALONG STATIONING.

SAFETY RAILING:
 ON BUTTERFLY TYPE SIGNS 12' AND OVER, END SAFETY RAILING AT WALKWAY BRACKETS ADJACENT TO POST. SEE EXAMPLES NO. 1, 4, 5 AND 6.

EXAMPLES SHOWN ON THIS SHEET ARE FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT A PART OF THE CONTRACT.

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000-236

BRIDGE DEPARTMENT
DESIGN SECTION
 Project Designer: J.H. Evans 1457
 Chief Designer: J.H. Evans 1457
 DESIGN: J.H. Evans 1457
 DETAILS: J.H. Evans 1457
 QUANTITIES: J.H. Evans 1457
 SPECIFICATIONS: J.H. Evans 1457
 Approved: J.H. Evans 1457

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD OVERHEAD SIGNS
 ("BUTTERFLY" AND FULL CANTILEVER TYPE)
 INSTRUCTIONS AND EXAMPLES

SCALE NONE
 BRIDGE
 FILE XS-18-17
 DRAWING
 PREL. DRAWING No. P. 51

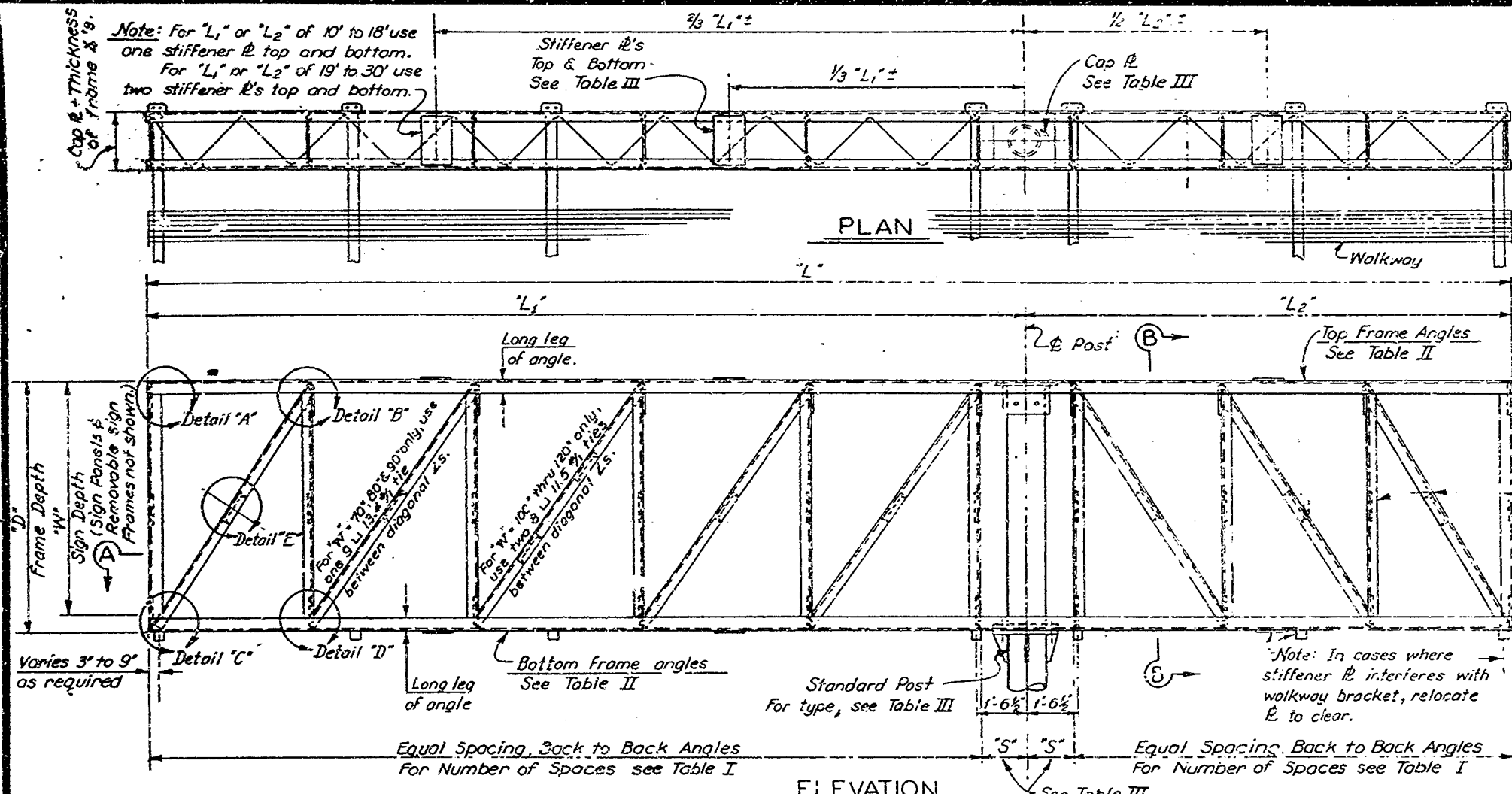
61-5V13C11

123

To accompany plans dated August 15, 1958

124

REVISION NO. 1
DATE 8/15/58
BY J. R. BOSS
CHECKED BY J. R. BOSS
APPROVED BY J. R. BOSS

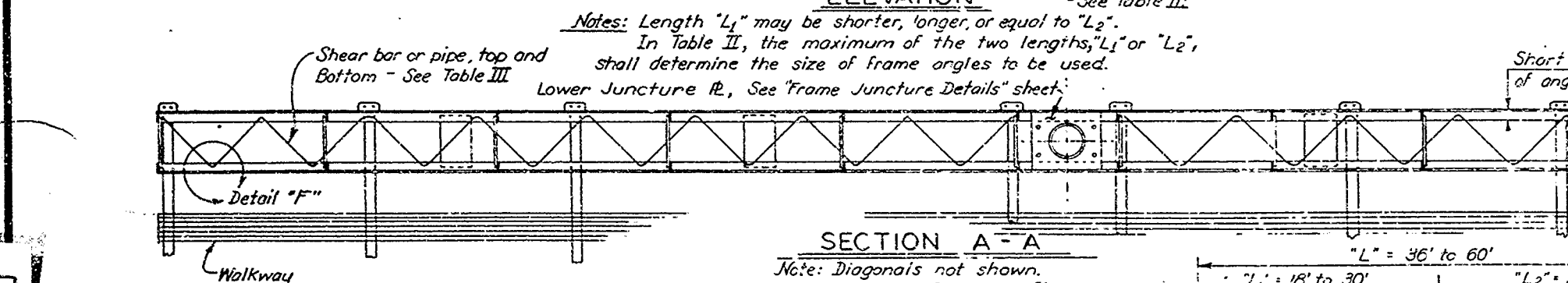
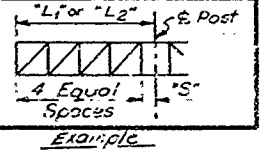


Note: End verticals to be same size as top frame L's

Length "L1" or "L2" (Feet)	Length "L1" or "L2" (Feet)																							
	4' to 6'	7'	8'	9'	10'	11'	12'	13'	14'	15'	16'	17'	18'	19'	20'	21'	22'	23'	24'	25'	26'	27'	28'	29'	30'
40"	6 Equal Spaces																							
50"	7 Equal Spaces																							
60"	8 Equal Spaces																							
70"	9 Equal Spaces																							
80"	10 Equal Spaces																							
90"	11 Equal Spaces																							
100"	12 Equal Spaces																							
110"	13 Equal Spaces																							
120"	14 Equal Spaces																							

VERTICALS AND DIAGONALS FRONT VIEW See Table II

TABLE I - NUMBER OF SPACES

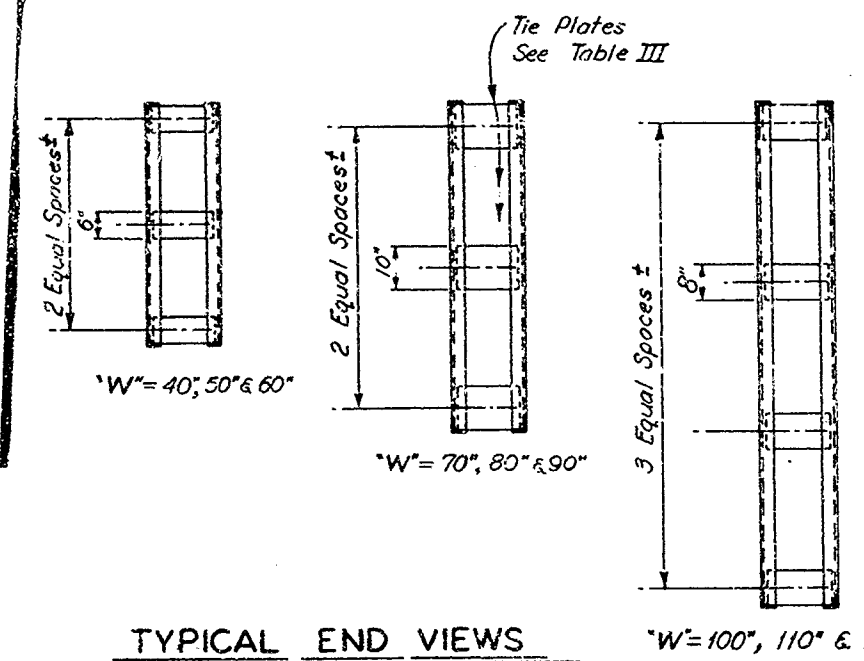


- Notes:
- For Details "A" thru "D" and "General Notes" see "Joint and Miscellaneous Details" sheet.
 - For post, shear bars, E sizes and "S" spacing, see "Table III - Post Type Selection" sheets.
 - For Sign Panel Frames see "Removable Sign Panel Frames" sheets.
 - For connection of frame to post see "Frame Junction Details" sheet.
 - For Walkway see "Standard Walkway Details #1 and #2" sheets.
 - For number and location of ballast boxes, typical walkway arrangement, special instructions and examples, see "Instructions and Examples" sheet.

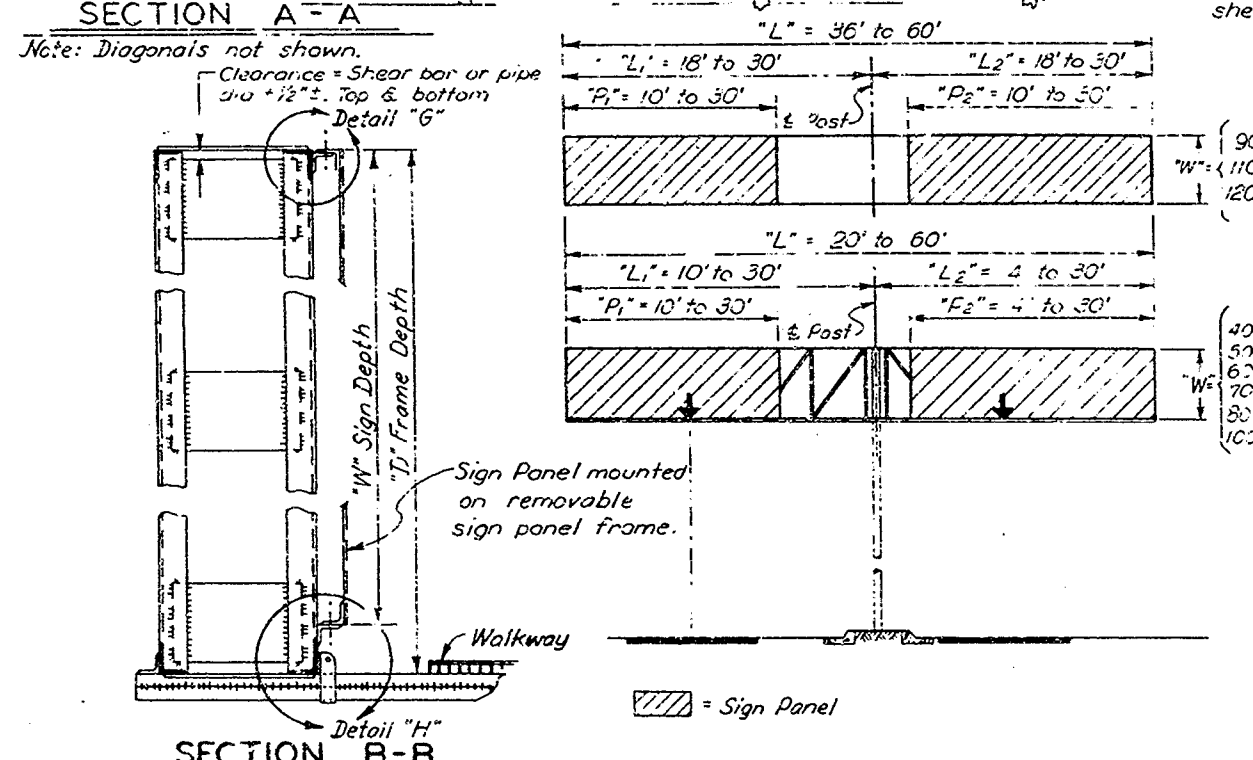
Sign Depth "W" (inches)	Frame Depth "D" (inches)	Maximum Length "L1" or "L2" (feet)	Frame Angles		Interior Angles Verticals & Diagonals
			Top L	Bottom L	
40"	3'-10"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	2 1/2" x 2 1/2" x 1/4"
50"	4'-8"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	2 1/2" x 2 1/2" x 1/4"
60"	5'-2"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
70"	6'-4"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
80"	7'-2"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
90"	8'-0"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
100"	8'-10"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
110"	9'-8"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"
120"	10'-6"	4' to 25'	5" x 3" x 3/16"	4" x 3" x 3/16"	3" x 3" x 1/4"

TABLE II - FRAME ANGLE SELECTION

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536



TYPICAL END VIEWS



SECTION B-B

UNBALANCED "BUTTERFLYS"

61-5V13C11

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: J. R. BOSS 1157
Chief Designer: J. R. BOSS 1157

DESIGN: J. R. BOSS 1157
DETAIL: J. R. BOSS 1157
QUANTITIES: J. R. BOSS 1157
SPECIFICATIONS: J. R. BOSS 1157

Approval Recommended by: J. R. BOSS 1157

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

STANDARD OVERHEAD SIGNS

UNBALANCED "BUTTERFLY" SIGN FRAMES

SCALE: NONE
BRIDGE: X5-18-10
FILE: DRAWING

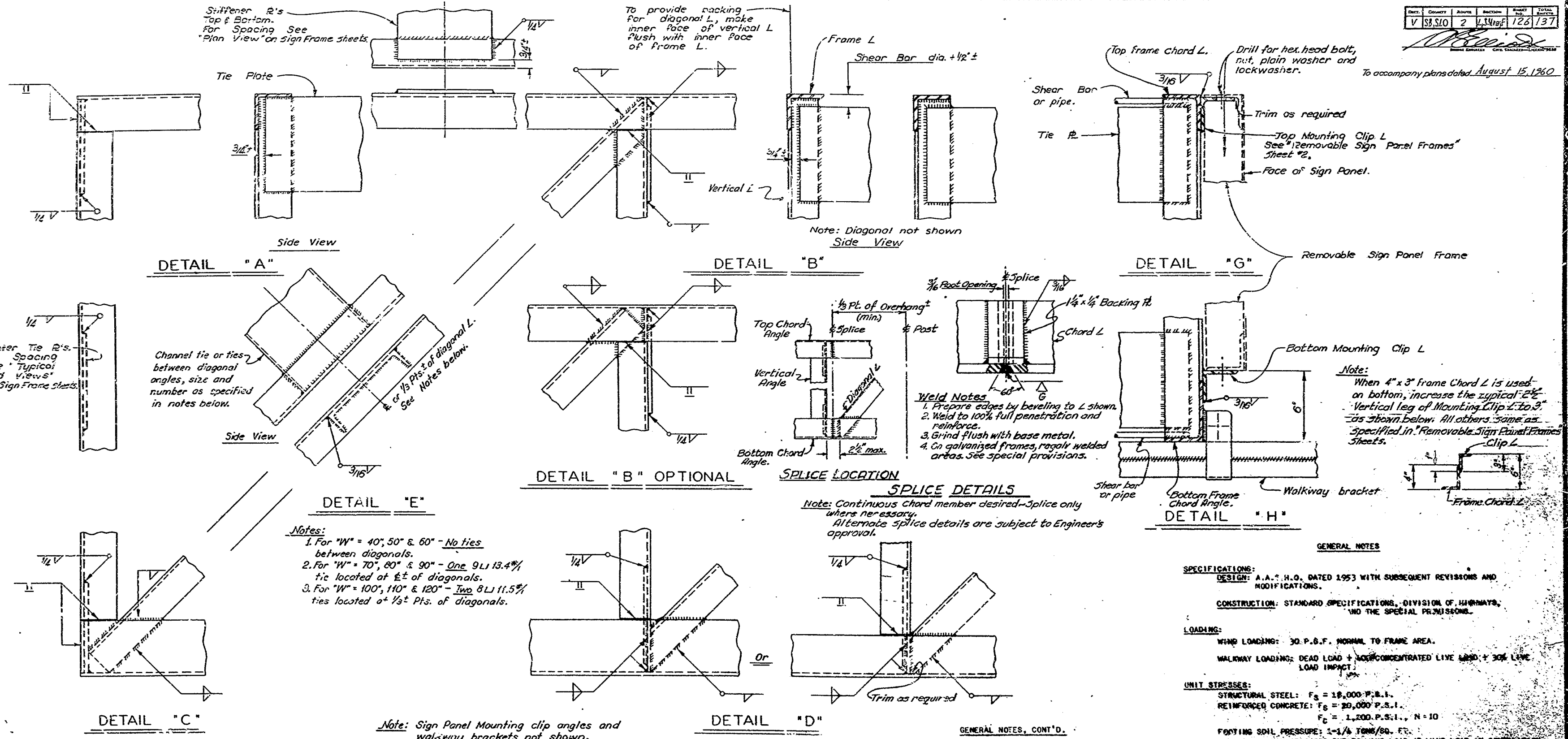
PREL. DRAWING NO. P. _____

129

S-10

TO ACCOMPANY PLANS DATED AUGUST 15, 1960

REVISION	DATE	BY	CHKD.	DESCRIPTION
1	12/13/57	...	...	...
2
3
4
5



- Notes:**
1. For "W" = 40", 50" & 60" - No ties between diagonals.
 2. For "W" = 70", 80" & 90" - One 9L113.4% tie located at 1/2" of diagonals.
 3. For "W" = 100", 110" & 120" - Two 8L111.5% ties located at 1/3" Pts. of diagonals.

Note: Sign Panel Mounting clip angles and walkway brackets not shown.

MATERIALS:
 BARS, PLATES, SHAPES, AND ANCHOR BOLT ASSEMBLIES TO BE STRUCTURAL STEEL A.S.T.M. DESIGNATION "A-7".
 SHEET TO BE CARBON STEEL SHEETS, A.S.T.M. DESIGNATION "A-242", GRADE "C".
 PIPE POSTS TO BE WELDED AND SEAMLESS STEEL PIPE, A.S.T.M. DESIGNATION "A-53", GRADE "B". PIPE POSTS FABRICATED FROM A-7 STEEL WILL BE ACCEPTED.

FINISH:
 FOR SURFACE TREATMENT OF EXPOSED METAL SURFACES NOT SHOWN TO BE FURNISH GALVANIZED SEE THE SPECIAL PROVISIONS.

SPECIFICATIONS:
 DESIGN: A.A. H.O. DATED 1953 WITH SUBSEQUENT REVISIONS AND MODIFICATIONS.
 CONSTRUCTION: STANDARD SPECIFICATIONS, DIVISION OF HIGHWAYS, AND THE SPECIAL PROVISIONS.

LOADING:
 WIND LOADING: 30 P.S.F. NORMAL TO FRAME AREA.
 WALKWAY LOADING: DEAD LOAD + UNIFORM CONCENTRATED LIVE LOAD + 30% LIVE LOAD IMPACT.

UNIT STRESSES:
 STRUCTURAL STEEL: $F_s = 18,000$ P.S.I.
 REINFORCED CONCRETE: $F_c = 20,000$ P.S.I.
 $F_c = 1,200$ P.S.I., $N = 10$

FOOTING SOIL PRESSURE: 1-1/4 TONS/SQ. FT.
 ALLOWABLE UNIT STRESSES DUE TO WIND LOAD OR WIND LOAD IN COMBINATION WITH OTHER FORCES, ARE INCREASED 33-1/3%.

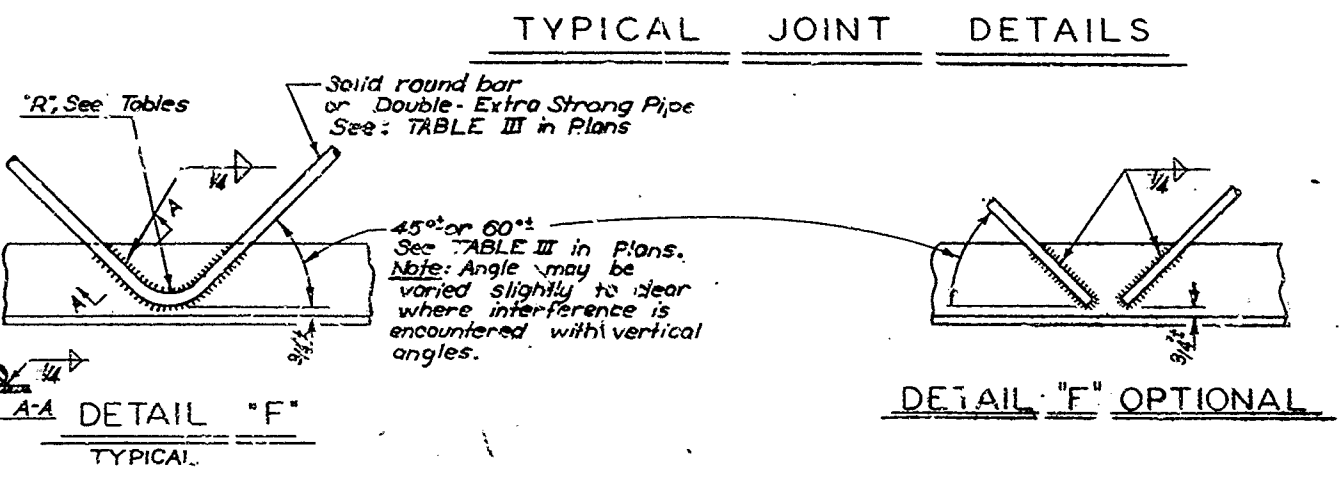
MINIMUM CLEARANCE: VERTICAL ROADWAY CLEARANCE 17'-0"
 REINFORCEMENT EMBEDMENT IS CLEAR TO OUTSIDE OF BAR AND 2" TO MAIN REINFORCEMENT, EXCEPT AS NOTED.

WELDING: ALL WELDING CONTINUOUS UNLESS OTHERWISE SHOWN ON THE PLANS. ALL WELDING TO BE DONE IN ACCORDANCE WITH THE A.A.H.O. SPECIFICATIONS DATED 1956.

NOTE: FOR ELECTRICAL DETAILS SEE "ELECTRICAL" SHEET LISTING ELECTRICAL SHEET AND LIGHTING PLAN.

Shear Bar	Radius "R"
1/2"	1 1/4" ±
5/8"	1 1/2" ±
3/4"	2" ±

Shear Pipe	Radius "R"
1/2" @ 1 1/4" R	2" ±
3/4" @ 2 1/4" R	2 1/2" ±

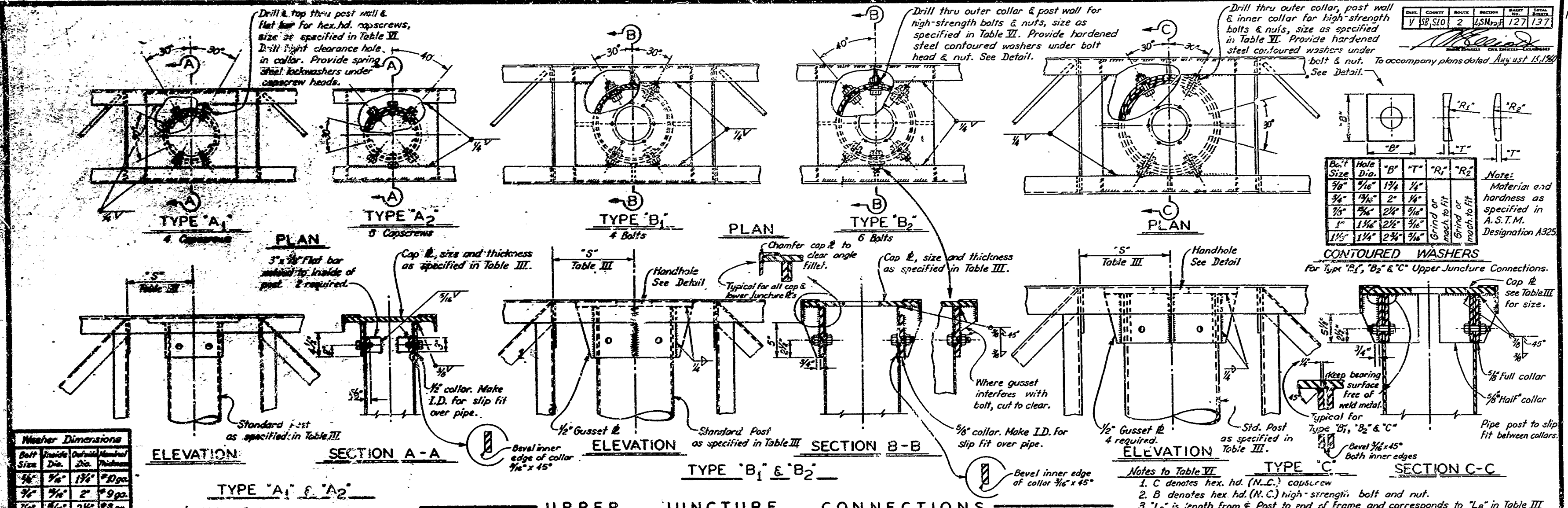


BRIDGE DEPARTMENT
DESIGN SECTION
 Project Designer: J.L. Patton 1187
 Chief Designer: J.L. Patton 1187
 Designer: J.L. Patton 1187
 Checker: J.L. Patton 1187
 Date: 12/13/57
 Specifications: A.A.H.O. 1956
 Project: 61-5V13C11

STANDARD SPECIFICATIONS
 (BUTTERFIELD AND FULTON)
 JOINT AND SURFACE DETAILS

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed: _____
 Document No. 50000-536

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Washer Dimensions

Bolt Size	Inside Dia.	Outside Dia.	Thickness
3/8"	7/16"	1 1/4"	3/16"
1/2"	9/16"	2"	3/16"
5/8"	11/16"	2 1/4"	3/16"
1"	1 1/16"	2 3/4"	3/16"
1 1/8"	1 3/8"	3"	3/16"

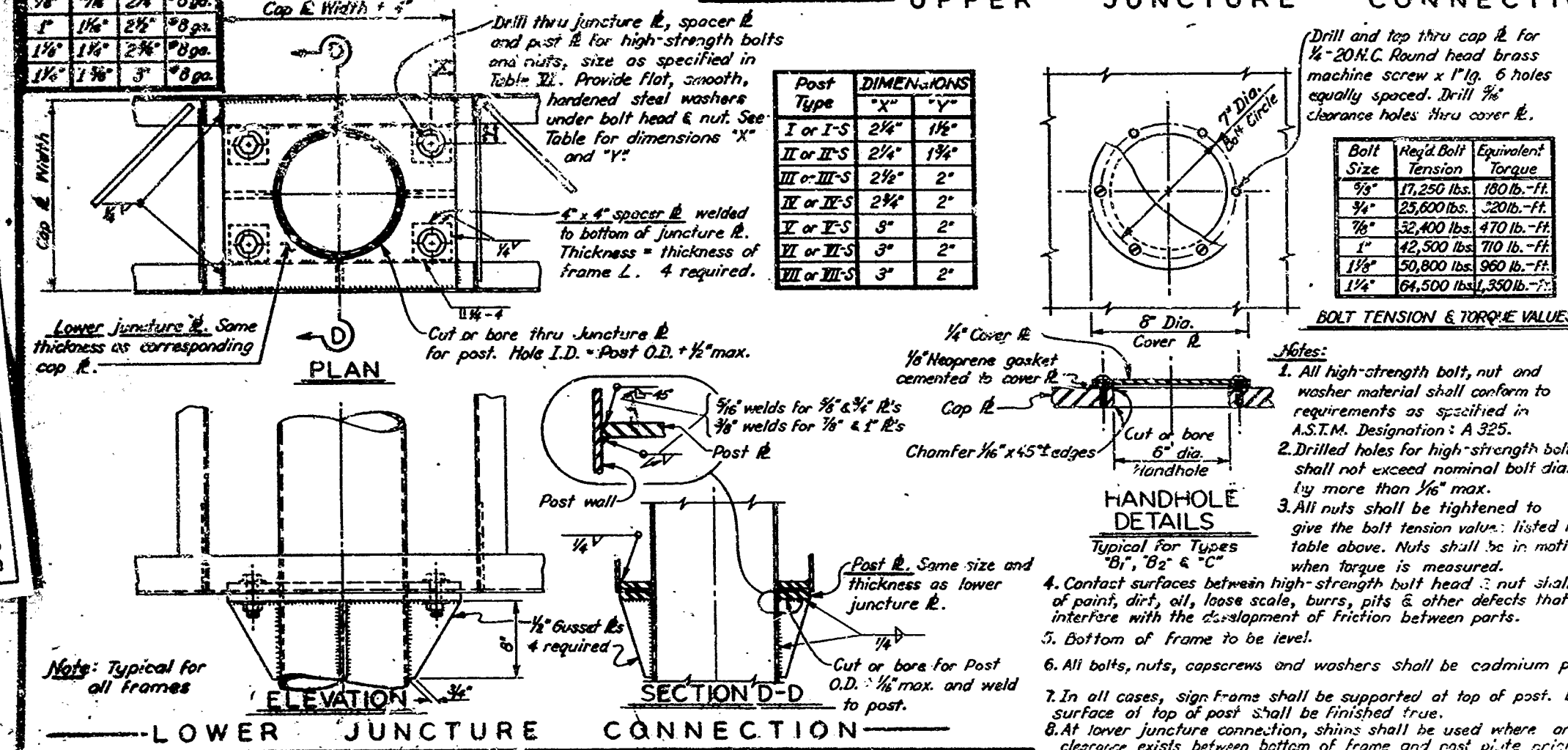


TABLE VI - JUNCTURE TYPE SELECTION (See Notes Above)

Sign Depth "H"	Sign Depth "V"	"L _B " = 5' to 10'		"L _B " = 11' to 15'		"L _B " = 16' to 20'		"L _B " = 21' to 25'		"L _B " = 26' to 30'			
		Upper Juncture Type	Lower Juncture Type	Upper Juncture Type	Lower Juncture Type	Upper Juncture Type	Lower Juncture Type	Upper Juncture Type	Lower Juncture Type	Upper Juncture Type	Lower Juncture Type		
40" thru 60"	I or I-S	A ₁	3/4" C	3/4" B	A ₂	3/4" C	3/4" B	A ₂	1 1/8" C	1 1/8" B	A ₂	3/4" C	3/4" B
		II or II-S	A ₁	3/4" C	3/4" B	A ₂	1" C	3/4" B	A ₂	1 1/8" C	1 1/8" B	A ₂	3/4" C	3/4" B
60" thru 90"	I or I-S	A ₁	3/4" C	3/4" B	A ₂	3/4" C	3/4" B	A ₂	1" C	1" B	A ₂	1 1/8" C	1 1/8" B
		II or II-S	A ₁	3/4" C	3/4" B	A ₂	3/4" C	3/4" B	A ₂	1" C	1" B	A ₂	1 1/8" C	1 1/8" B
90" thru 120"	I or I-S	A ₁	3/4" C	3/4" B	A ₂	3/4" C	3/4" B	A ₂	1 1/8" C	1 1/8" B	A ₂	1 1/8" C	1 1/8" B
		II or II-S	A ₁	3/4" C	3/4" B	A ₂	3/4" C	3/4" B	A ₂	1 1/8" C	1 1/8" B	A ₂	1 1/8" C	1 1/8" B

BRIDGE DEPARTMENT DESIGN SECTION

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

Project Designer: *Raymond J. Egan 3/57*
Chief Designer: *Ray M. Smith*

DESIGN: *Ed. Rosen 1/57*
DETAILS: *John P. Beckers*

QUANTITIES: _____
SPECIFICATIONS: _____

APPROVED: *Ray M. Smith* 6/28

SCALE: NONE BRIDGE: _____ FILE: XS-18-14 DRAWING: _____

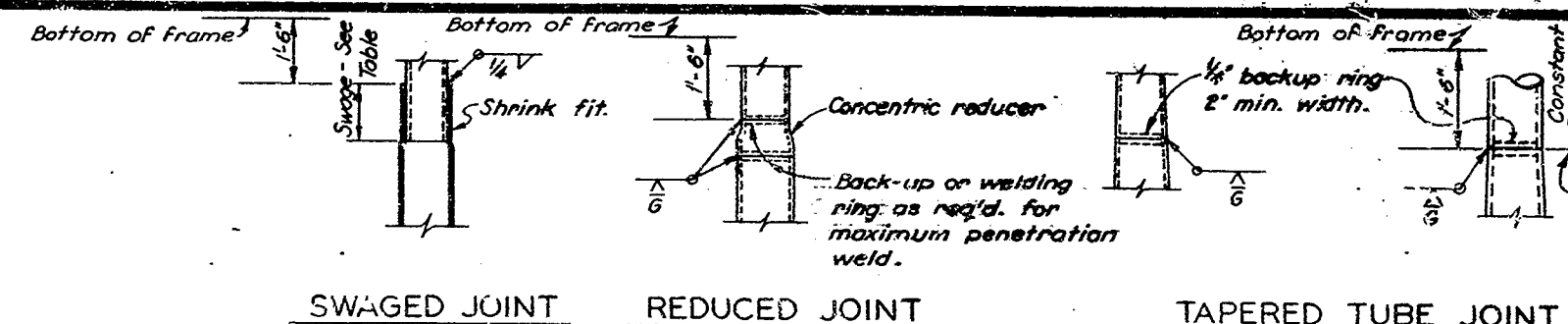
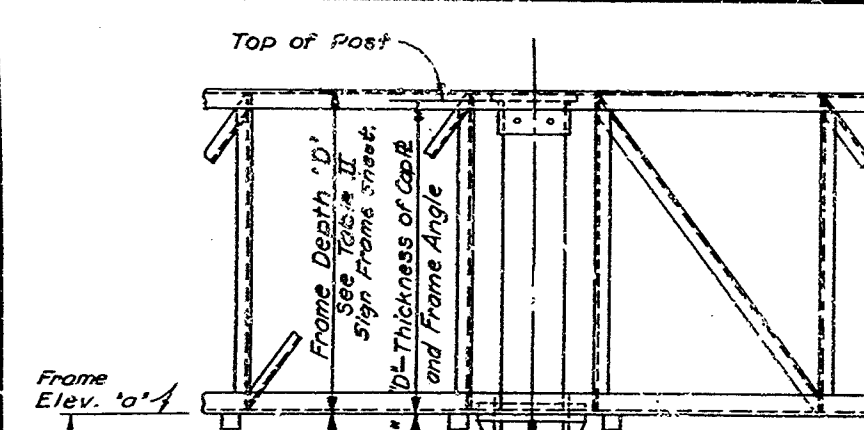
STANDARD OVERHEAD SIGNS (BUTTERFLY AND FULL CANTILEVER TYPE)
FRAME JUNCTURE DETAILS

AS BUILT PLANS
Contract No. 6-L-5V13C-11
Date Completed _____
Document No. 50000536

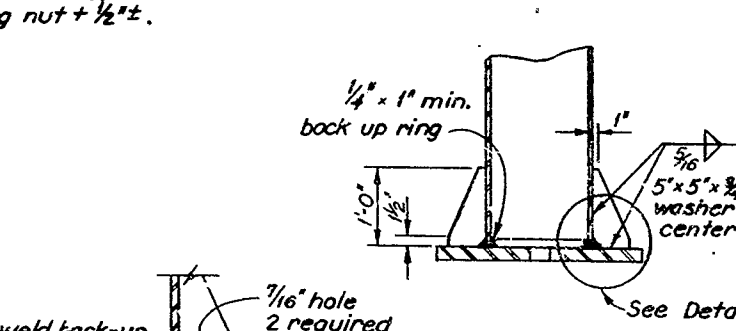
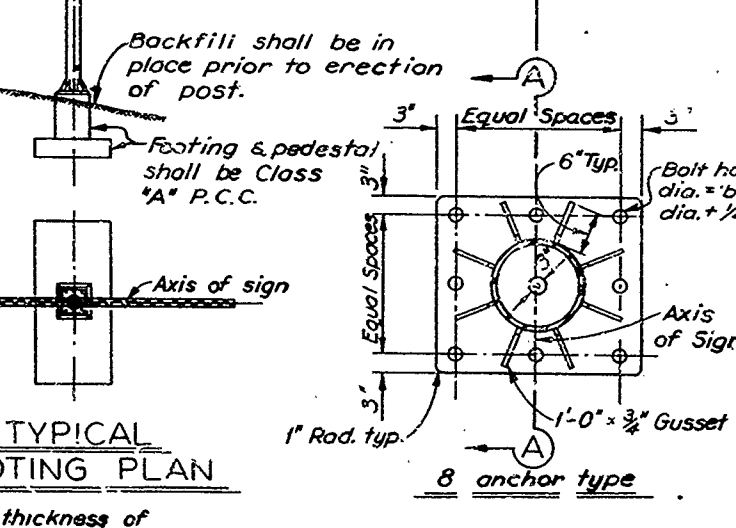
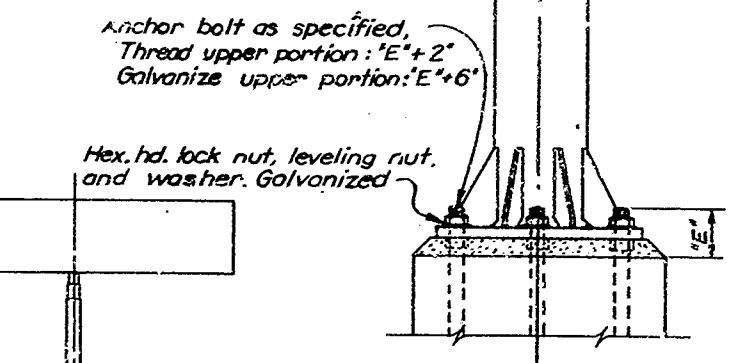
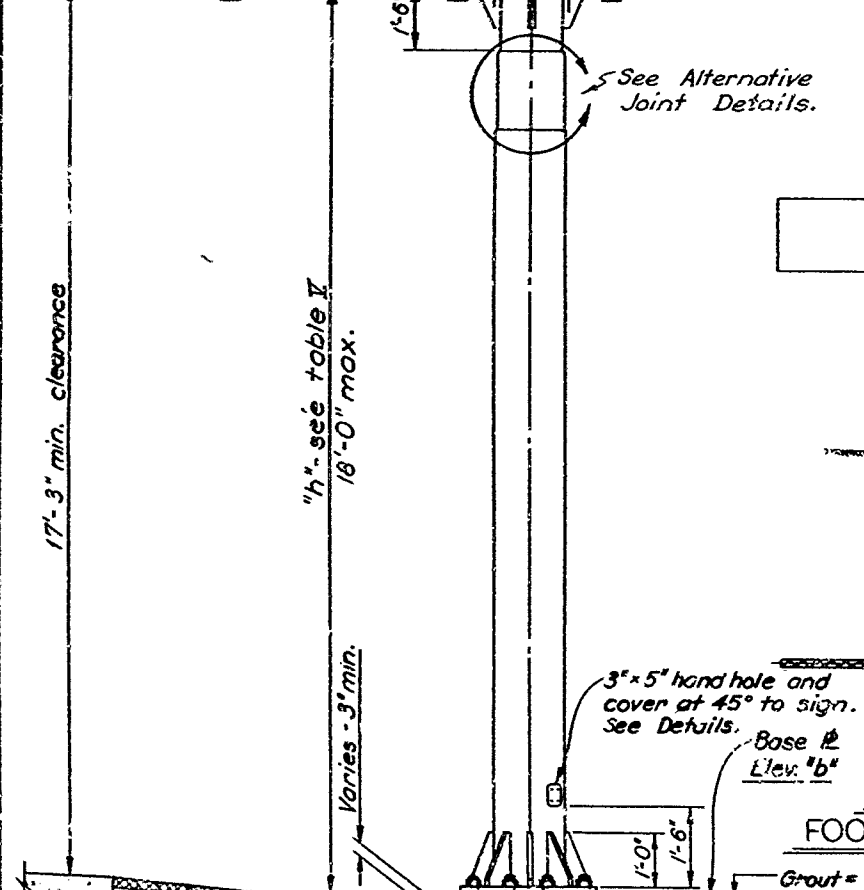
127

61-5V13C11

REVISION	1
DATE	12/2/57
BY	W.S.M.
CHECKED BY	W.S.M.
APPROVED BY	W.S.M.



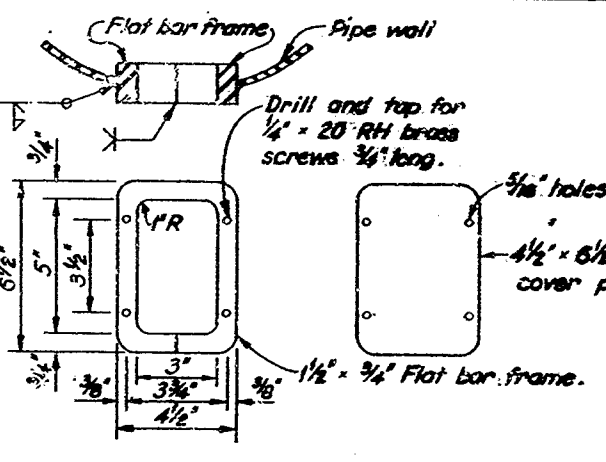
ALTERNATIVE JOINT DETAILS



ANCHORAGE DETAIL "A" Shown for 4 bolts - Similar for 3 & 2 bolts

Sign No.	Station	Post Type	h	Elevations		
				Elev. "a"	Elev. "b"	Elev. "c"

TABLE V



HANDHOLE & COVER DETAILS

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

Post Type	Pipe Sizes		Swaged Length	Dimension "L"	Base Plate Size (Note #4)	Anchor Bolts	Pedestal Size (Note #4)	Footing Size (Note #4)	Longitudinal Footing Reinforcement	
	Base Section	Upper Section							Top	Bottom
I	10" Std. @ 40.48	8" Std. @ 28.55	1'-0"	8"	1'-10" x 1'-8" x 1 1/2"	4-2"	2'-5" x 2'-3"	5'-0" x 3'-0"	6-#4 bars	6-#4 bars
II	12" Std. @ 49.50	10" Std. @ 34.24	1'-0"	7 1/2"	2'-4" x 2'-1" x 1 1/2"	8-1 1/2"	2'-11" x 2'-8"	6'-0" x 10'-0"	6-#4 bars	6-#4 bars
III	14" O.D. @ 72.09	12" Std. @ 43.77	1'-6"	8 1/2"	2'-7" x 2'-3" x 1 1/2"	8-2"	3'-2" x 2'-10"	7'-0" x 12'-0"	6-#5 bars	6-#5 bars
IV	16" O.D. @ 82.77	14" O.D. @ 54.57	1'-6"	8 1/2"	3'-1" x 2'-9" x 2"	10-2"	3'-8" x 3'-4"	7'-0" x 13'-0"	6-#5 bars	6-#5 bars
V	18" O.D. @ 93.45	16" O.D. @ 62.58	1'-6"	8 1/2"	3'-3" x 3'-0" x 1 1/2"	10-2"	3'-10" x 3'-7"	8'-0" x 14'-0"	7-#5 bars	7-#6 bars
VI	20" O.D. @ 104.13	18" O.D. @ 70.59	2'-0"	8 1/2"	3'-3" x 3'-0" x 2"	10-2"	3'-10" x 3'-7"	9'-0" x 15'-0"	8-#6 bars	6-#7 bars
VII	24" O.D. @ 125.49	20" O.D. @ 78.60	2'-0"	10"	3'-7" x 3'-3" x 2 1/2"	10-2 1/2"	4'-3" x 3'-11"	10'-0" x 17'-0"	7-#6 bars	7-#8 bars

- Notes:
1. Tapered tube of equivalent size and thickness may be substituted for pipe post.
 2. For reinforcement, embedment is clear to outside of bar and is 2" to main reinforcement, except as noted.
 3. For "General Notes" see "Joint and Miscellaneous Details" sheet.
 4. Base Plates, Pedestals, & Footings, longer sizes shall be normal to the axis of sign.

DESIGN	BY	DATE	CHECKED	DATE
DESIGN SECTION	W.S.M.	1/57	W.S.M.	1/57
DETAILS	W.S.M.	1-57	W.S.M.	1-57
QUANTITIES				
SPECIFICATIONS				

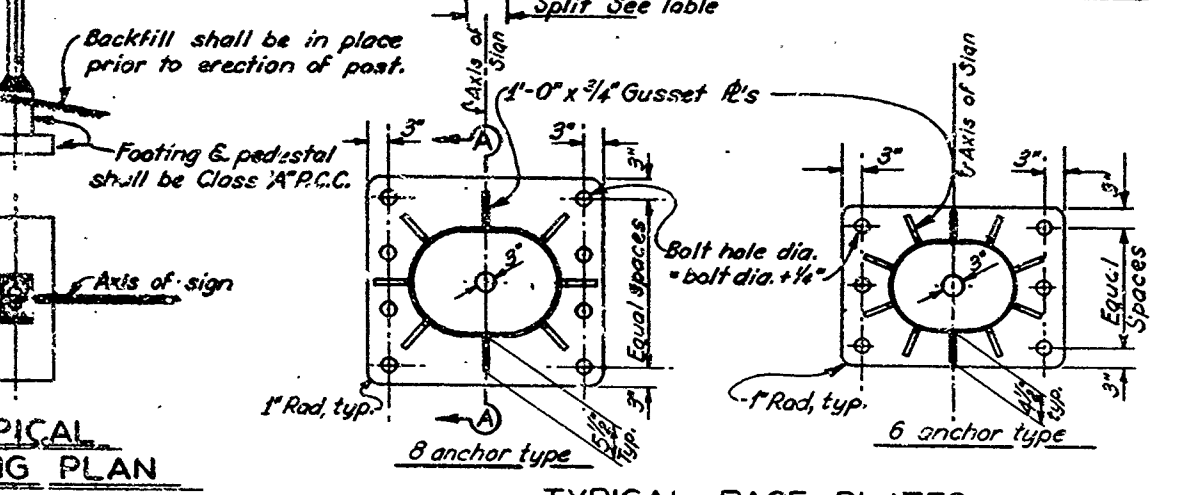
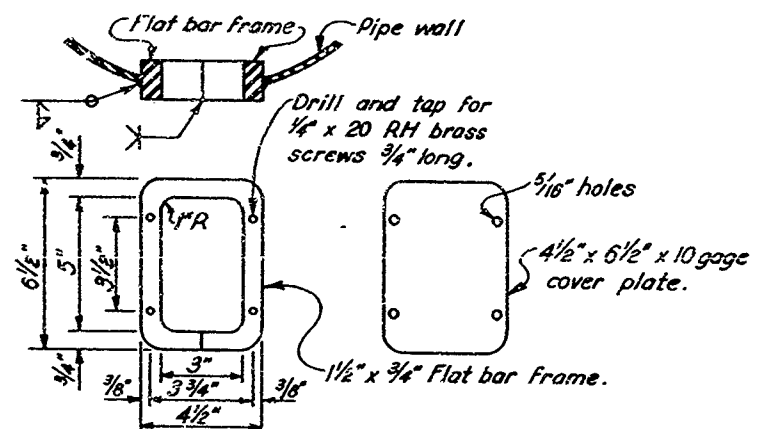
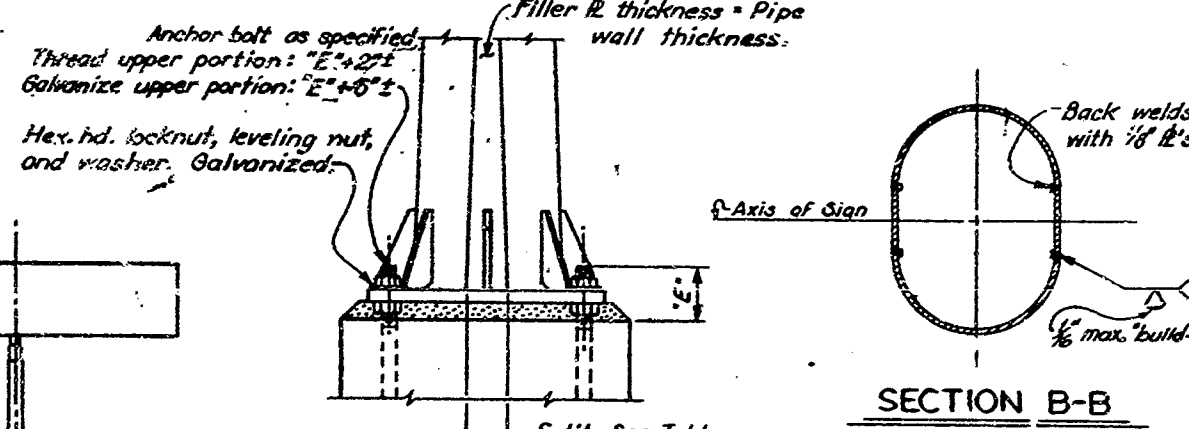
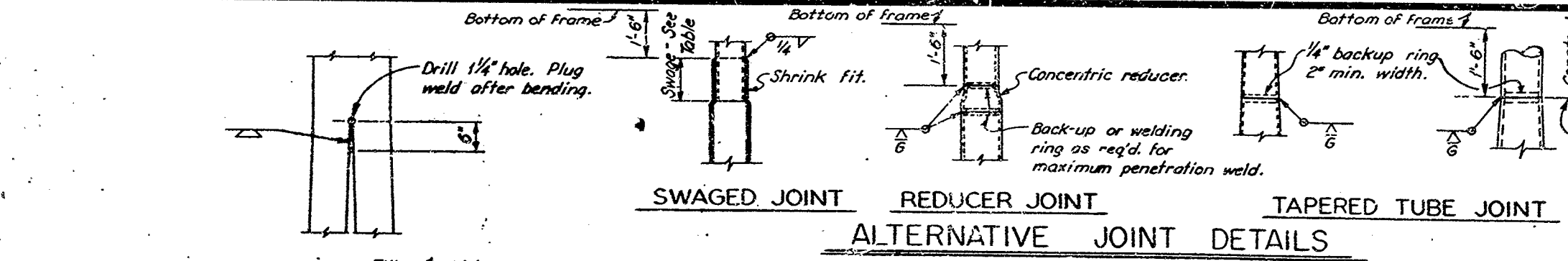
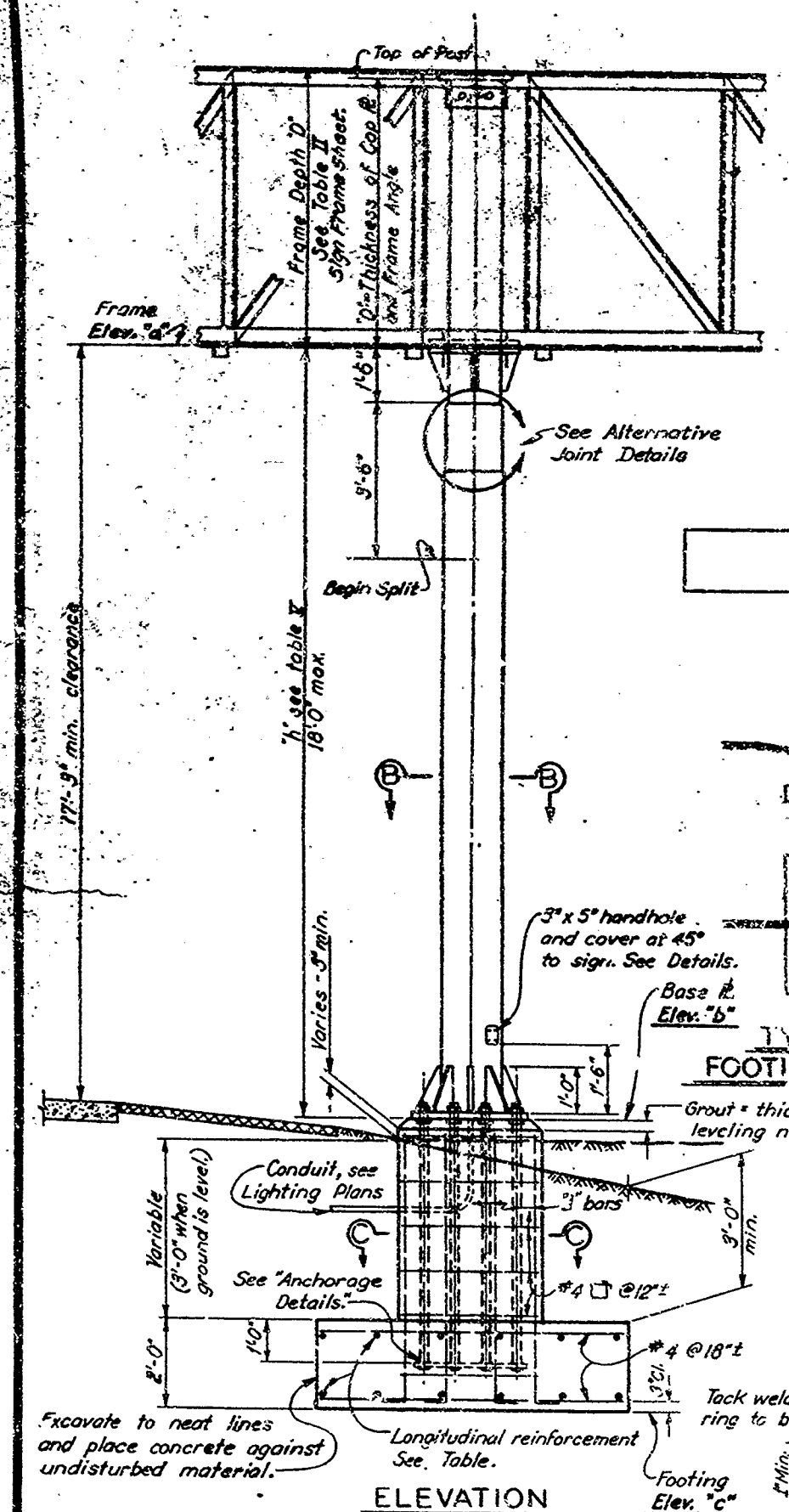
BRIDGE DEPARTMENT
 DESIGN SECTION
 Project Designer: *W.S.M.*
 Chief Designer: *W.S.M.*

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD OVERHEAD SIGNS
 ("BUTTERFLY" & FULL CANTILEVER TYPE)
 POST - TYPES I THRU VII

SCALE NONE
 BRIDGE
 XS-18-15
 FILE
 DRAWING

To accompany plans dated August 15, 1960
End tapered tube here



HANDHOLE & COVER DETAILS

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000536

Post Type	Pipe Sizes		Swaged Length	Dimension "E"	Split	Base Plate Size (Note #4)	Anchor Bolts	Pedestal Size (Note #4)	Footings Size (Note #4)	Longitudinal Footing Reinforcement	
	Base Section	Upper Section								Top	Bottom
I-S	10" Std. @ 40.48	8" Std. @ 28.55	1'-0"	6 1/2"	4"	2'-11" x 1'-9" x 1 1/2"	6-1 1/2"	2'-7" x 2'-3"	5'-0" x 10'-0"	5-#4 bars	5-#6 bars
II-S	12" Std. @ 49.56	10" Std. @ 34.24	1'-0"	7 1/2"	5"	2'-5" x 1'-11" x 1 1/2"	6-1 3/4"	3'-0" x 2'-8"	6'-0" x 11'-0"	6-#4 bars	6-#7 bars
III-S	14" O.D. @ 72.09	12" Std. @ 43.77	1'-6"	8 1/2"	5"	2'-9" x 2'-0" x 2"	6-2"	3'-4" x 2'-7"	7'-0" x 13'-0"	7-#4 bars	7-#8 bars
IV-S	16" O.D. @ 82.77	14" O.D. @ 54.57	1'-6"	8 1/2"	6"	2'-11" x 2'-7" x 2"	8-2"	3'-6" x 3'-2"	8'-0" x 14'-0"	8-#5 bars	8-#9 bars
V-S	18" O.D. @ 93.45	16" O.D. @ 62.58	1'-6"	8 1/2"	7"	3'-1" x 2'-9" x 2"	8-2"	3'-8" x 3'-4"	8'-0" x 16'-0"	8-#5 bars	8-#9 bars
VI-S	20" O.D. @ 104.13	18" O.D. @ 70.59	2'-0"	8 1/2"	8"	3'-5" x 2'-9" x 2"	8-2"	4'-0" x 3'-4"	9'-0" x 17'-0"	9-#5 bars	9-#10 bars
VII-S	24" O.D. @ 125.49	20" O.D. @ 78.60	2'-0"	9 1/2"	8"	3'-9" x 3'-3" x 2"	8-2 1/4"	4'-5" x 3'-11"	10'-0" x 18'-0"	10-#6 bars	10-#11 bars

Notes:
1. Tapered tube of equivalent size and thickness may be substituted for pipe post.
2. For reinforcement, embedment is clear to outside of bar and is 2" to main reinforcement, except as noted.
3. For "General Notes" see "Joint and Miscellaneous Details" sheet.
4. Base Plates, Pedestals, & Footings, longer sides shall be normal to the axis of sign.

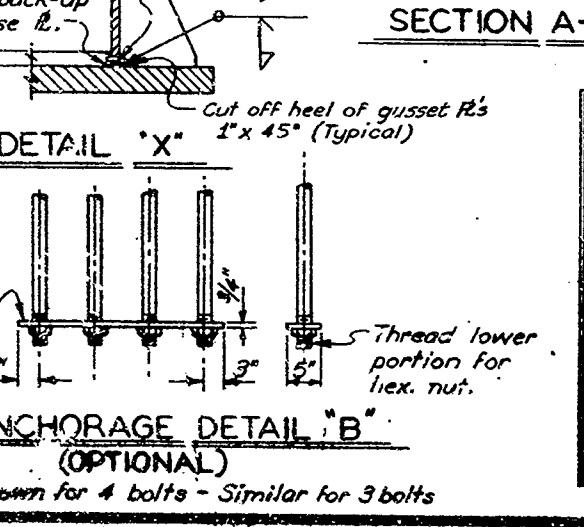
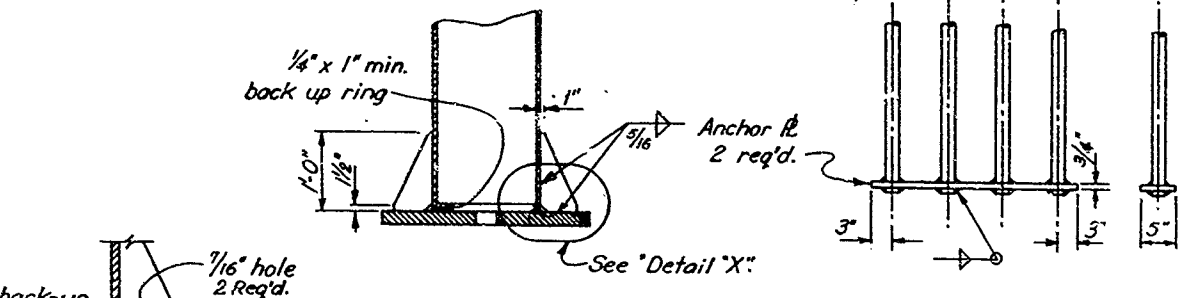
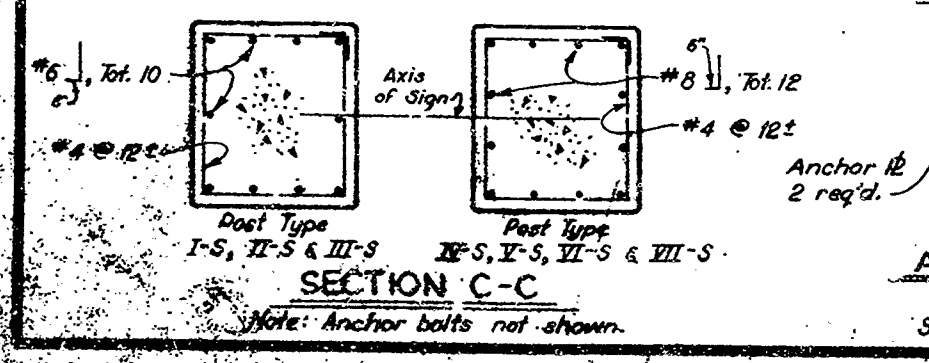


TABLE V

Sign No.	Station	Post Type	"h"	Elevations		
				Elev. "a"	Elev. "b"	Elev. "c"

BRIDGE DEPARTMENT
DESIGN SECTION
Project Designer: J. L. Becker 1/57
Chief Designer: R. A. Smith

DESIGNER	W. J. Rouse 1/56	Checked	J. L. Becker 1/57
DETAILS	J. L. Becker 1-57	Checked	J. L. Becker 1-57
QUANTITIES		Checked	
SPECIFICATIONS		Checked	

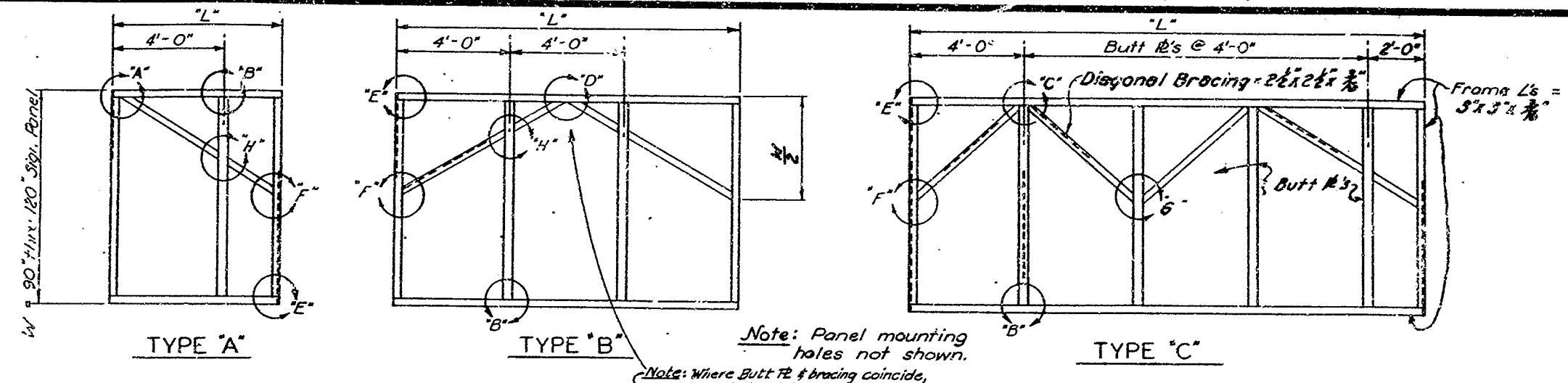
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

61-5V13C11

STANDARD OVERHEAD SIGNS
"BUTTERFLY" TYPE
POST TYPES I-S THRU VII-S

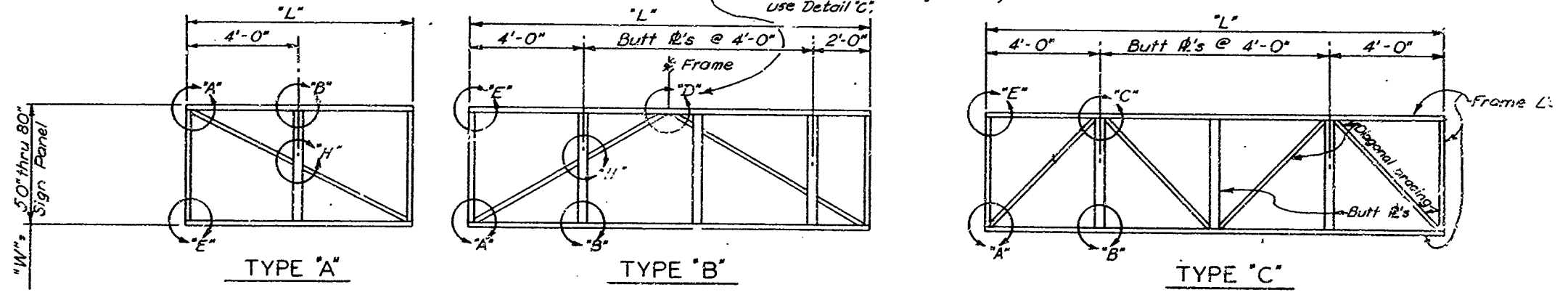
SCALE NONE BRIDGE FILE DRAWING

PRI. DRAWING NO. P. _____



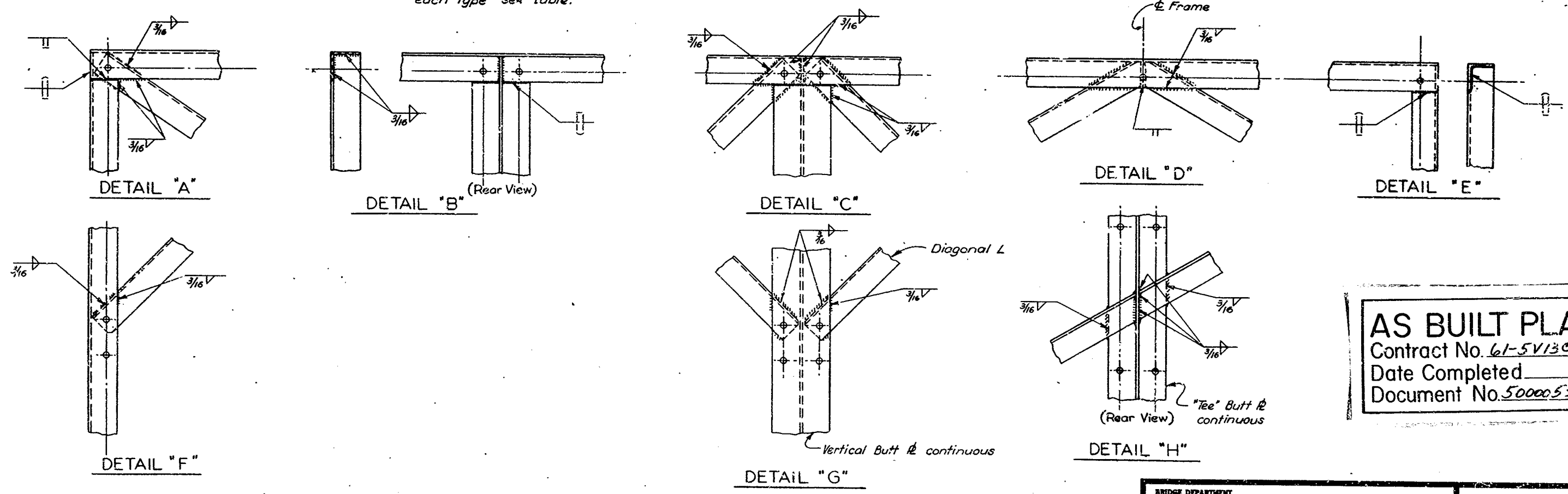
Sign Depth "W" (Feet)	Frame Length "L" (Feet)									
	4'	6'	8'	10'	12'	14'	16'	18'	20'	
50"										
70"	TYPE "A"									
80"										
90"										
100"	TYPE "A"									
110"										
120"										

— TYPE OF BRACING —



TYPICAL REMOVABLE FRAMES

Note: Frame Types "A", "B" & "C" refers to type of bracing. For limits of each type see table.



TYPICAL JOINT DETAILS

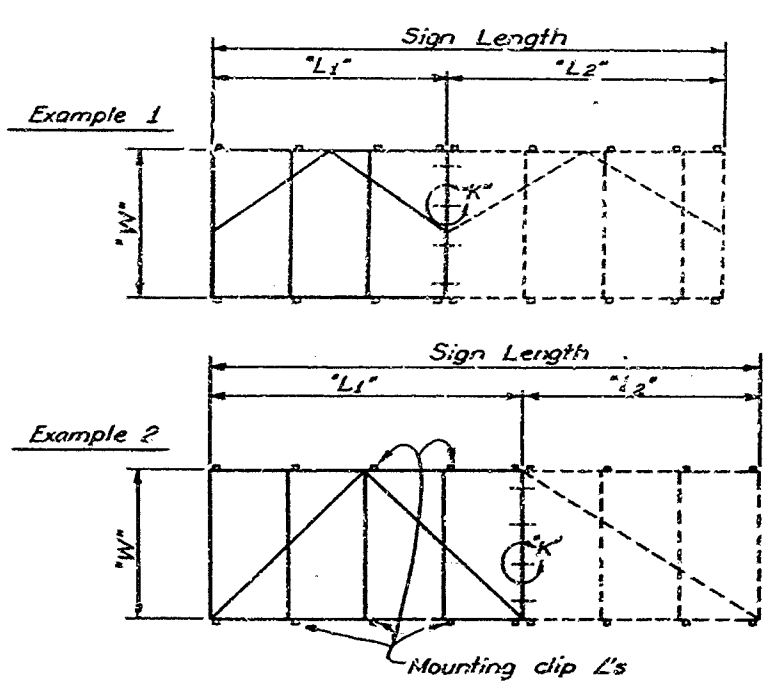
AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

61-5V13C11 O

BRIDGE DEPARTMENT		STATE OF CALIFORNIA	
DESIGN SECTION		DEPARTMENT OF PUBLIC WORKS	
Project Designer: <i>Francis A. Brown 467</i>		DIVISION OF HIGHWAYS	
Chief Designer: <i>C. R. Kirschweng</i>		STANDARD OVERHEAD SIGNS	
DESIGN: <i>F. A. Brown 467</i>	Checked: <i>B. J. Brown 12-57</i>	REMOVABLE SIGN PANEL FRAMES #1	
DETAILS: <i>JOANN BECKER 7/51</i>	Checked: <i>F. A. Brown 467</i>	SCALE: NONE	
QUANTITIES: _____	Checked: _____	BRIDGE: _____	
SPECIFICATIONS: _____	Checked: _____	DRAWING	
Approved Recommended by: <i>Paul H. ...</i>	Checked: _____	PREL. DRAWING NO. P- _____	

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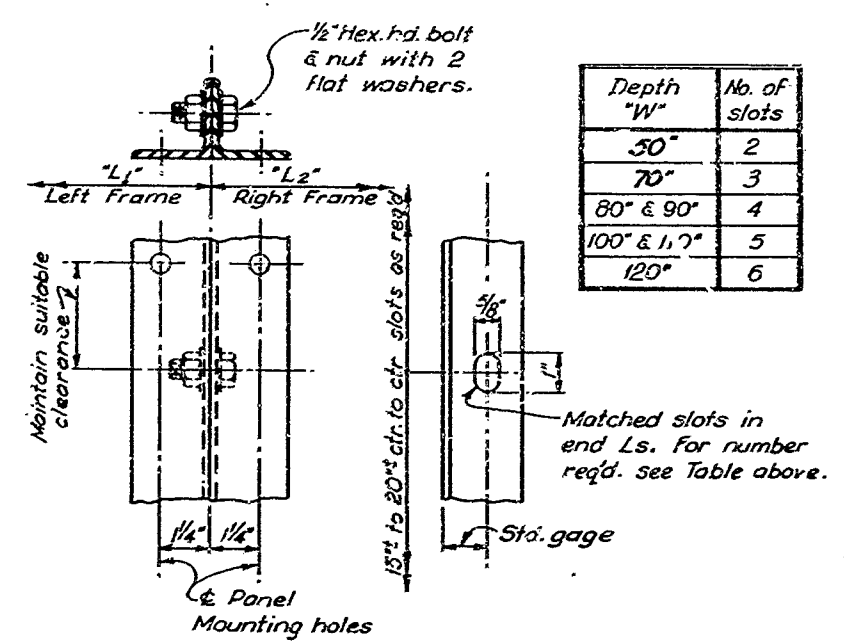
August 15, 1960



SIGNS GREATER THAN 20'-0"
No Scale

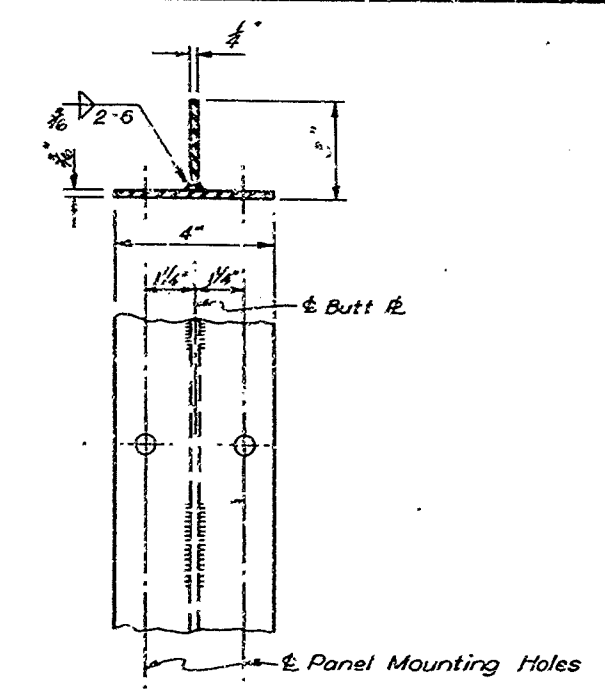
SIGN LENGTH	L ₁	L ₂
22'-0"	12'	10'
24'-0"	12'	12'
26'-0"	12'	14'
28'-0"	16'	12'
30'-0"	16'	14'
32'-0"	18'	16'
34'-0"	18'	18'
36'-0"	20'	16'
38'-0"	20'	18'
40'-0"	30'	20'

NOTES:
FRAMES FOR SIGNS GREATER THAN 20'-0" IN LENGTH SHALL BE FABRICATED IN TWO SECTIONS WITH LEFT SECTION A MULTIPLE OF 4'-0" IN LENGTH. SEE TABLE ABOVE.
SECTIONS SHALL BE HOISTED INTO PLACE INDIVIDUALLY AND BOLTED TOGETHER AS PER DETAIL "K" PRIOR TO TIGHTENING OF MOUNTING CLIP BOLTS.
BOLTING TWO SECTIONS TOGETHER AND HOISTING SIMULTANEOUSLY WILL NOT BE PERMITTED.



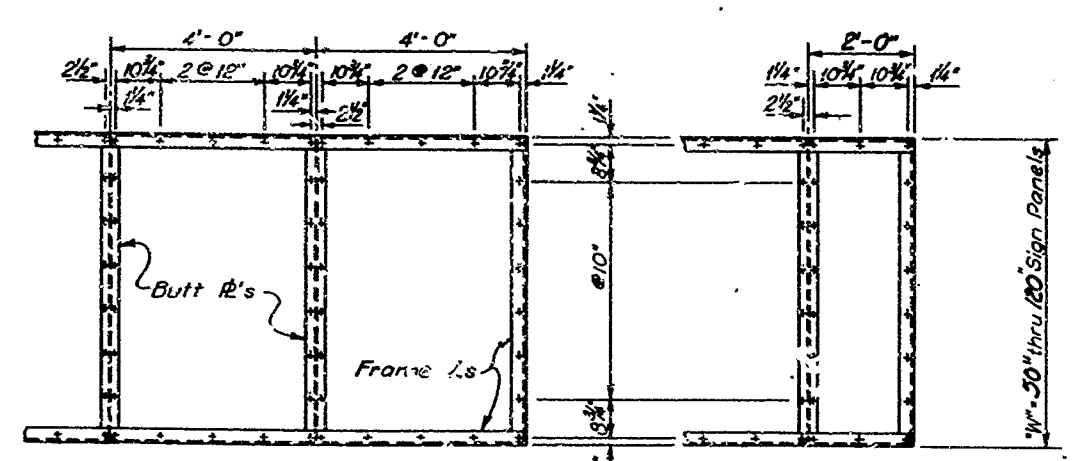
DETAIL "K"
No Scale

Depth "W"	No. of slots
50"	2
70"	3
80" & 90"	4
100" & 110"	5
120"	6

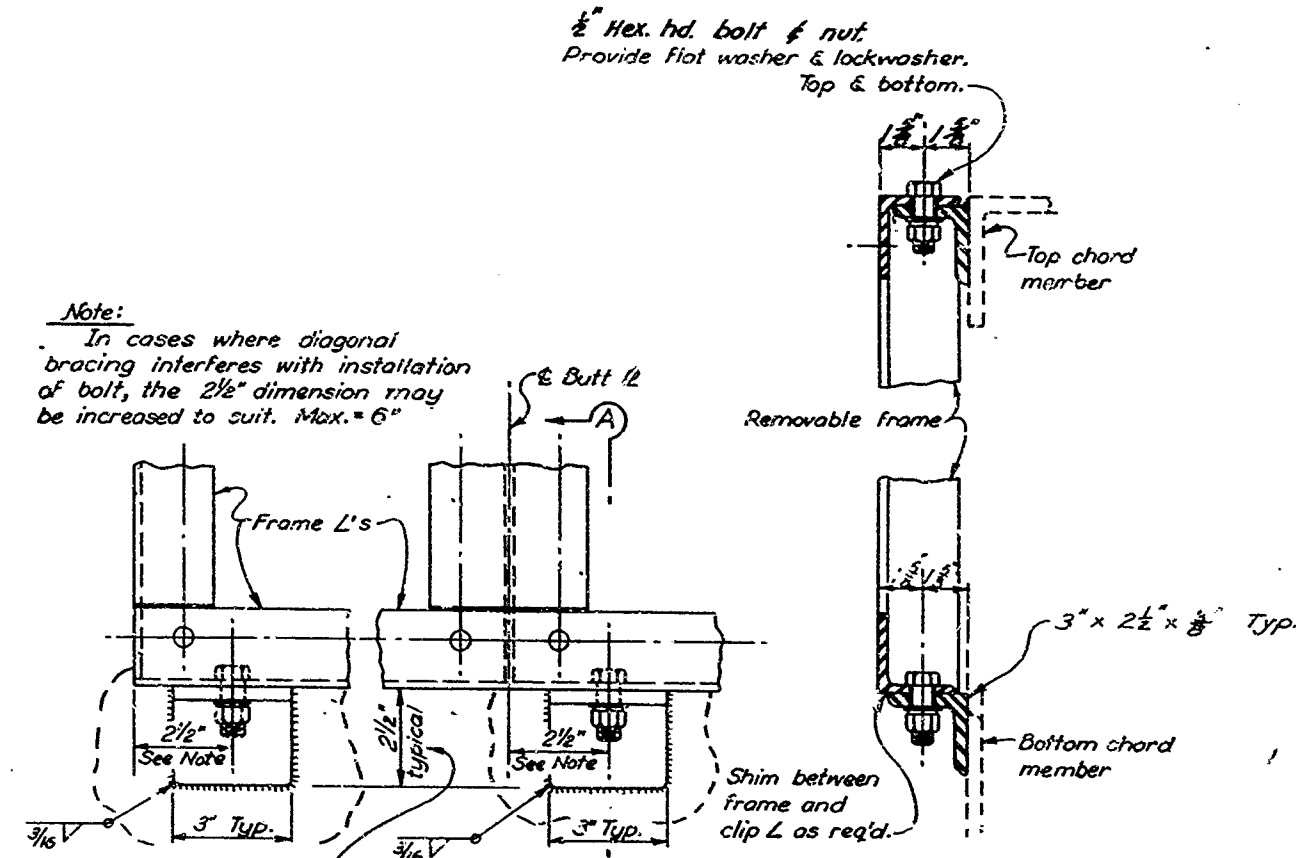


BUTT PLATE DETAILS
No Scale

- NOTES:
- FRAMES SHALL BE ALL-WELDED CONSTRUCTION.
 - 1/2" PANEL MOUNTING HOLES SHALL BE DRILLED BY TEMPLATE. SIGN PANEL MAY BE CONSIDERED A TEMPLATE.
 - DRILLED AND TAPPED HOLES (1/4"-20 N.C.) MAY BE USED WHERE INTERFERENCE DUE TO WELDS OR STRUCTURAL MEMBERS IS ENCOUNTERED.
 - FRAMES SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
 - VERT BUTT PLATES SHALL BE PLACED ON 4'-0" CENTERS STARTING FROM LEFT EDGE OF SIGN FRAME.
 - BUTT PLATE FACES SHALL BE FLUSH WITH FACES OF FRAME ANGLES.
 - MOUNTING CLIP ANGLES SHALL BE LOCATED SUCH AS TO ALLOW THE TOP AND BOTTOM FRAME ANGLES OF THE REMOVABLE SIGN PANEL FRAME TO LIE ON A STRAIGHT HORIZONTAL LINE.
 - HOLES FOR MOUNTING REMOVABLE SIGN PANEL FRAME SHALL BE SHOP-DRILLED ON ASSEMBLY TO MATCH.
 - FOR SIGNS GREATER THAN 20'-0" IN LENGTH SEE DETAILS.



TYPICAL 4'-0" PANEL
TYPICAL 2'-0" PANEL
Note: All holes 1/2" diameter
Diagonal bracing not shown.
MOUNTING HOLE SPACING FOR SIGN PANEL & FRAME
Scale: 1/2" = 1'-0"



SECTION A-A
AT FRAME END AT BUTT PLATE
FRAME MOUNTING DETAILS
No Scale

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

61-5V13C11

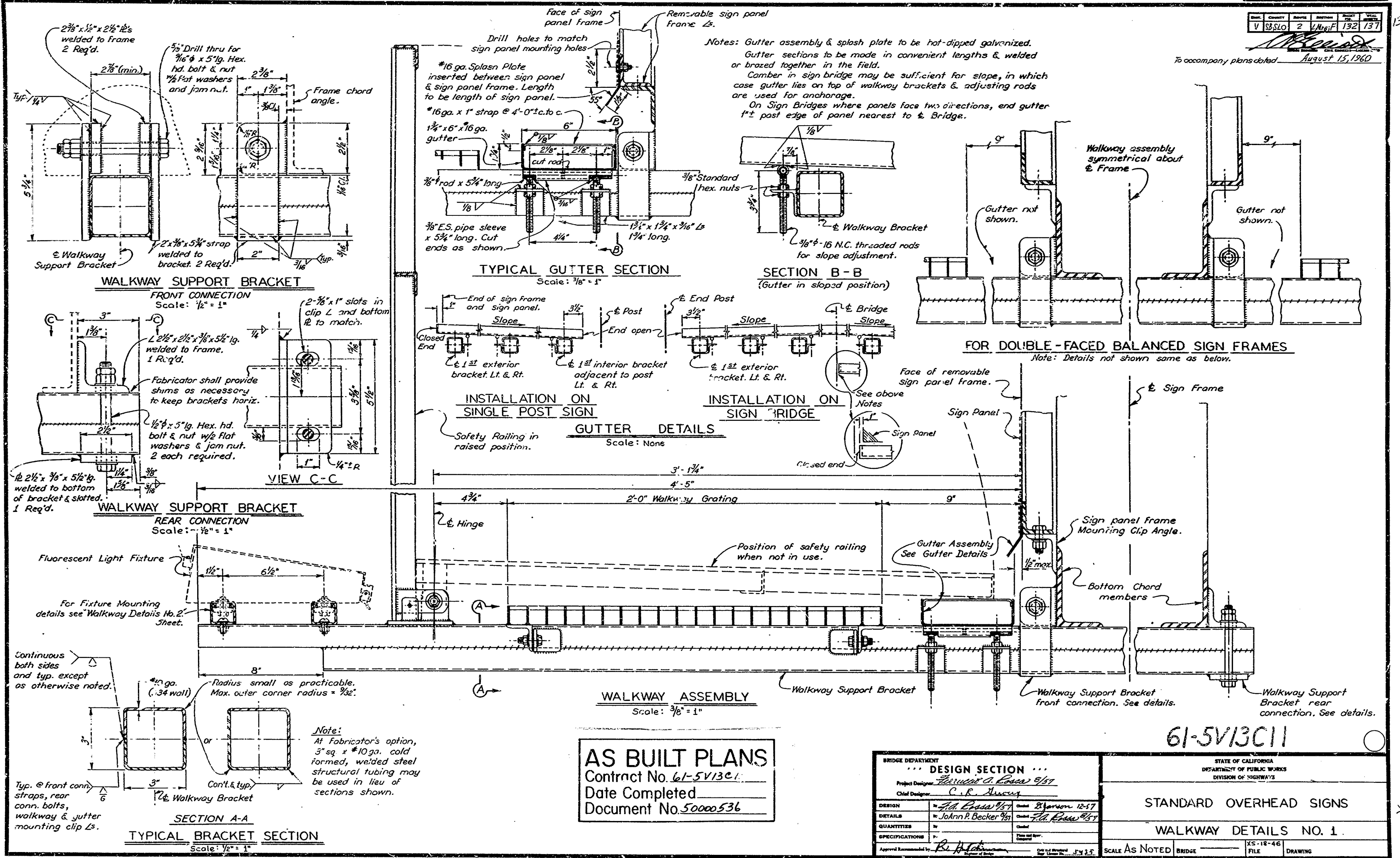
BRIDGE DEPARTMENT		DESIGN SECTION	
Project Designer: <i>James A. Papp</i> 11/57			
Chief Designer: <i>C. R. Niswonger</i>			
DESIGN	By: <i>P. L. Brown</i> 11/57	Checked: <i>D. J. ...</i> 12-57	
DETAILS	By: <i>Johnson Berner</i> 1/57	Checked: <i>P. L. Brown</i> 1/57	
QUANTITIES	By: _____	Checked: _____	
SPECIFICATIONS	By: _____	Checked: _____	
Approved Recommended by: <i>P. L. Brown</i>		Date: _____	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
STANDARD OVERHEAD SIGNS	
REMOVABLE SIGN PANEL FRAMES T2	
SCALE: As Noted	BRIDGE: _____
PREL. DRAWING NO. P. _____	

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521

To accompany plans dated August 15, 1960



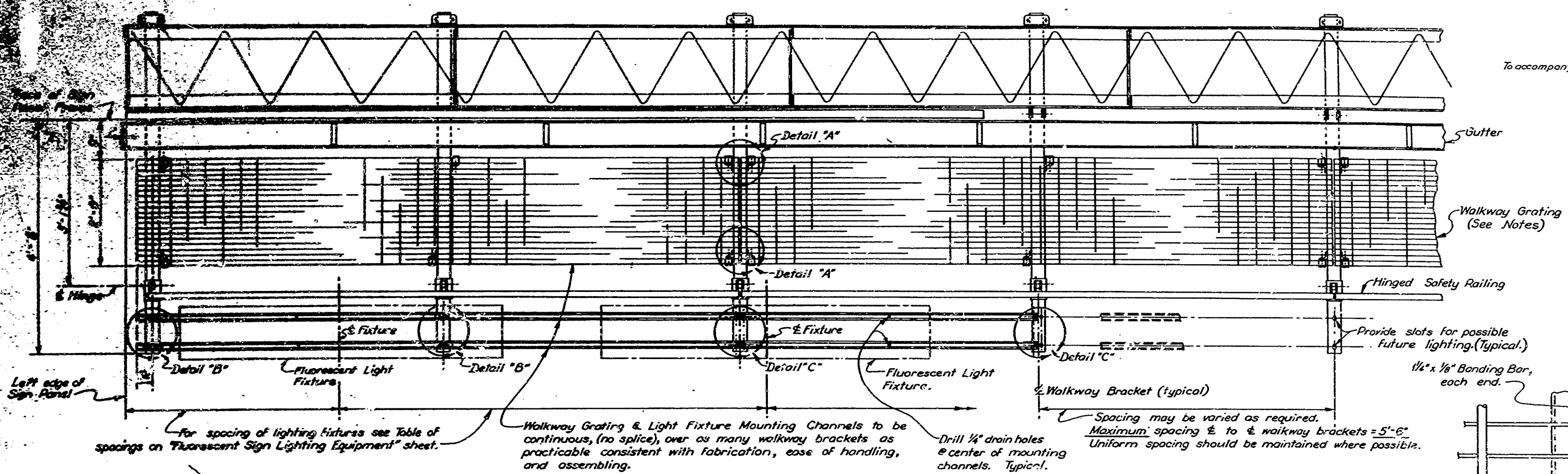
AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed
Document No. 50000536

BRIDGE DEPARTMENT		DESIGN SECTION	
Project Designer: <i>Richard A. Brown 5/57</i>			
Chief Designer: <i>C.R. Murray</i>			
DESIGN	By: <i>J.H. Brown 5/57</i>	Checked: <i>B. Hanson 12-57</i>	
DETAILS	By: <i>John P. Becker 5/57</i>	Checked: <i>J.H. Brown 5/57</i>	
QUANTITIES	By: _____	Checked: _____	
SPECIFICATIONS	By: _____	Checked: _____	
Approved: <i>Richard A. Brown</i>		Date: _____	

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
STANDARD OVERHEAD SIGNS	
WALKWAY DETAILS NO. 1	
SCALE AS NOTED	BRIDGE _____
FILE XS-18-46	DRAWING _____

61-5V13C11

To accompany plans dated August 15, 1960



WALKWAY PLAN
Scale: 1" = 1'-0"

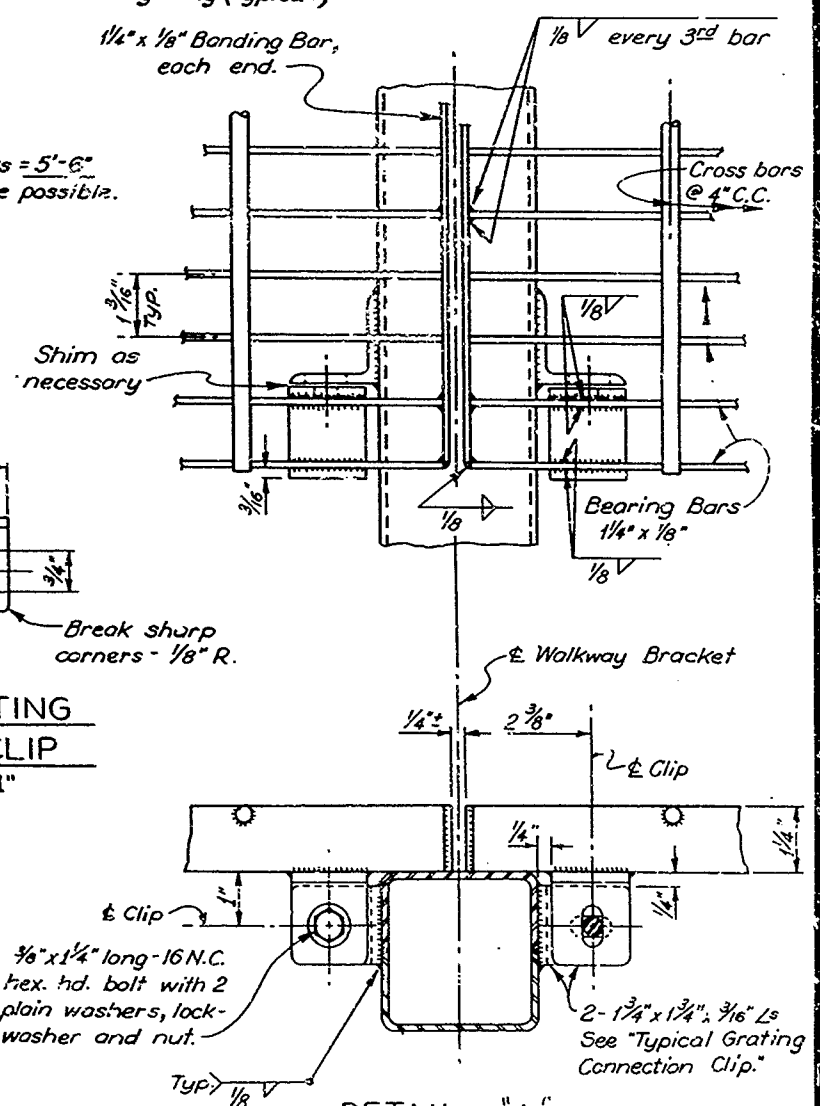
Note: Ballast box not shown.

For spacing of lighting fixtures see Table of spacings on "Fluorescent Sign Lighting Equipment" sheet.

Walkway Grating & Light Fixture Mounting Channels to be continuous, (no splice), over as many walkway brackets as practicable consistent with fabrication, ease of handling, and assembling.

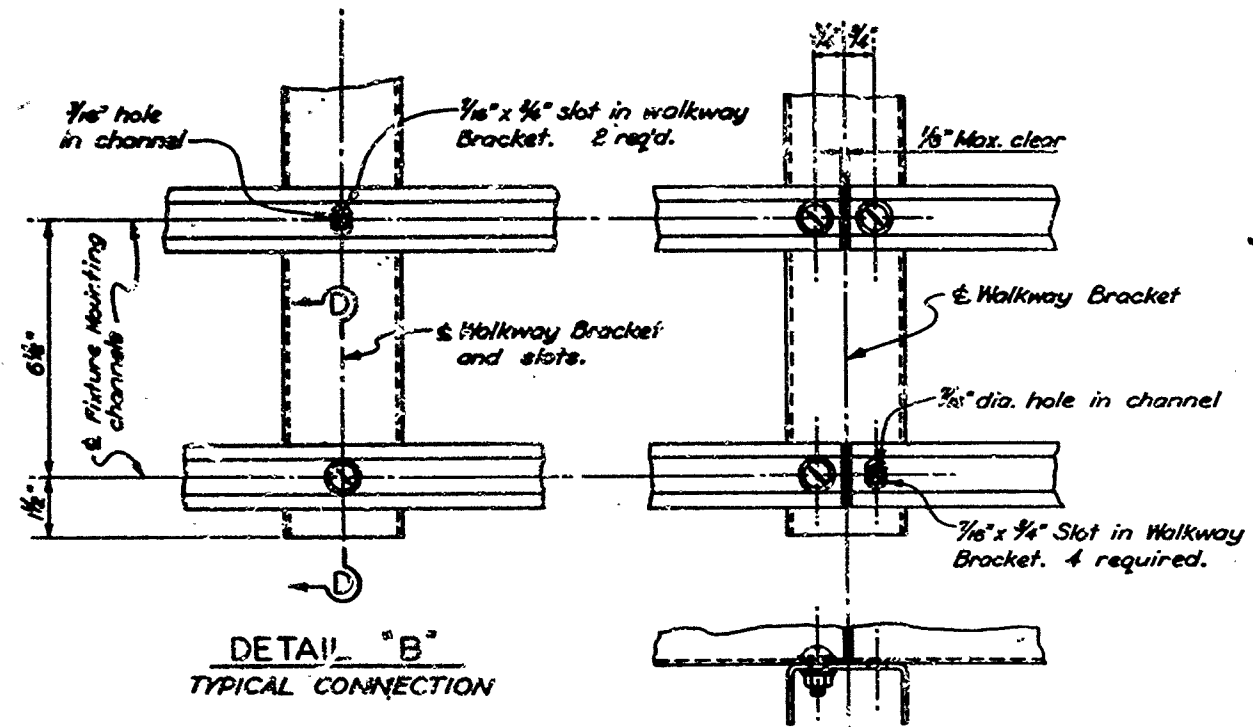
Drill 1/4" drain holes @ center of mounting channels. Typical.

Spacing may be varied as required. Maximum spacing @ to @ walkway brackets = 5'-6". Uniform spacing should be maintained where possible.



TYPICAL GRATING CONNECTION CLIP
Scale: 1/2" = 1"

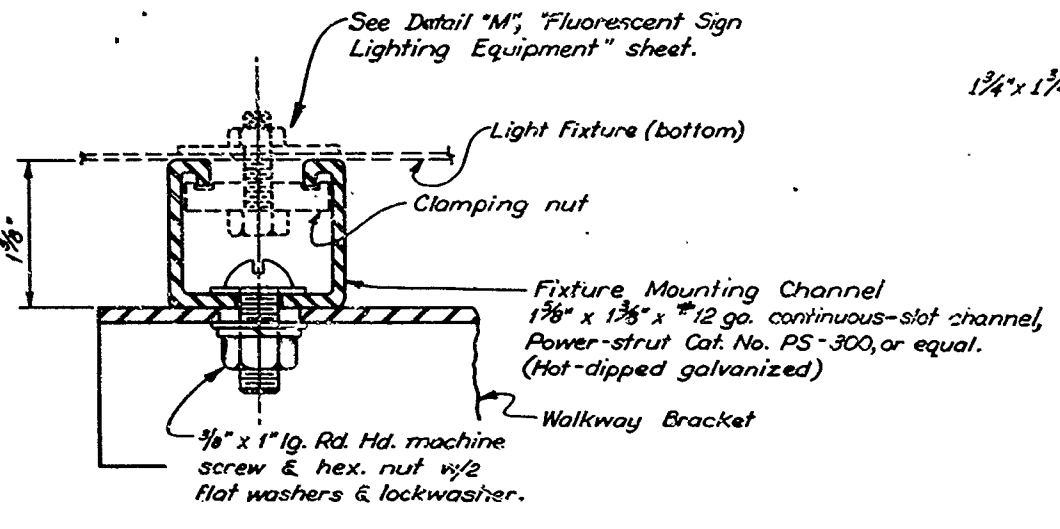
DETAIL "A"
Scale: 1/2" = 1"



DETAIL "B"
TYPICAL CONNECTION

DETAIL "C"
CONNECTION AT SPLICE

FIXTURE MOUNTING DETAILS
Scale: 3/8" = 1"



SECTION D-D
(Typical)
Full Scale

- NOTES:
1. WELDED-TYPE GRATING, IRVING TYPE "IWA" OR EQUAL. 1 1/2" X 1/8" BEARING BARS @ 1 3/16" CTRS., CROSS-BARS @ 4" CTRS. SEE DETAIL "A".
 2. WALKWAY GRATING, SUPPORT BRACKETS, SAFETY RAILING, GUTTER, AND LIGHT FIXTURE CHANNEL SUPPORTS TO BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
 3. BOLTS, NUTS, WASHERS, ETC. TO BE GALVANIZED OR CADMIUM PLATED.
 4. MAXIMUM SPACING CTR. TO CTR. OF SUPPORT BRACKETS = 5'-6".
 5. FOR ADAPTATION OF BALLAST BOX TO WALKWAY SEE "WALKWAY-MOUNTED BALLAST BOX" SHEET.

AS BUILT PLANS
Contract No. 61-5V13C11
Date Completed _____
Document No. 50000531

BRIDGE DEPARTMENT			
DESIGN SECTION			
Project Designer: <i>Thurston A. Egan 957</i>			
Chief Designer: <i>C.R. Hanson</i>			
DESIGN	by <i>F.L. Beck 957</i>	check <i>S.J. Jensen 12-57</i>	
DETAILS	by <i>Johann P. Becker 751</i>	check <i>F.L. Beck 957</i>	
QUANTITIES	by _____	check _____	
SPECIFICATIONS	by _____	check _____	
Approved & Recommended by <i>R.D. Johnson</i>	Drawn and Dimensioned by <i>J.P. 12-57</i>	Checked by _____	

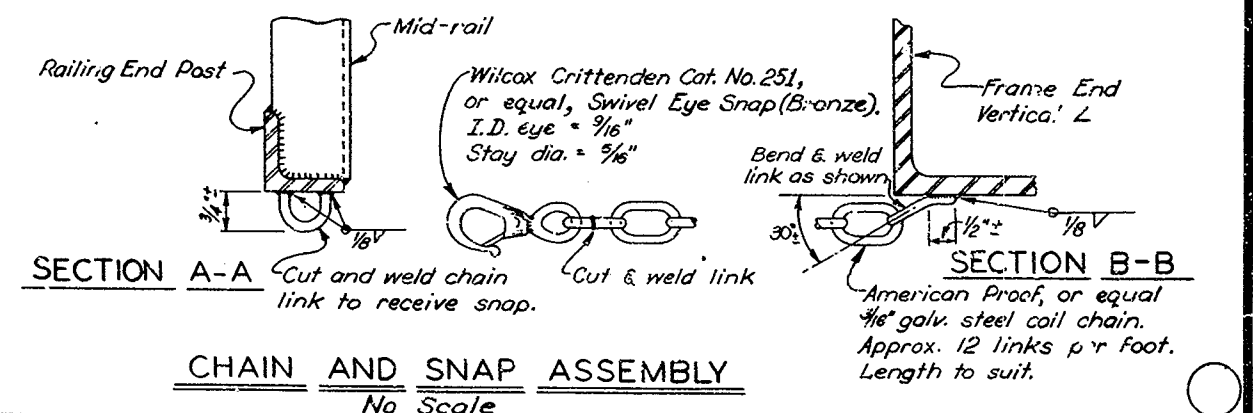
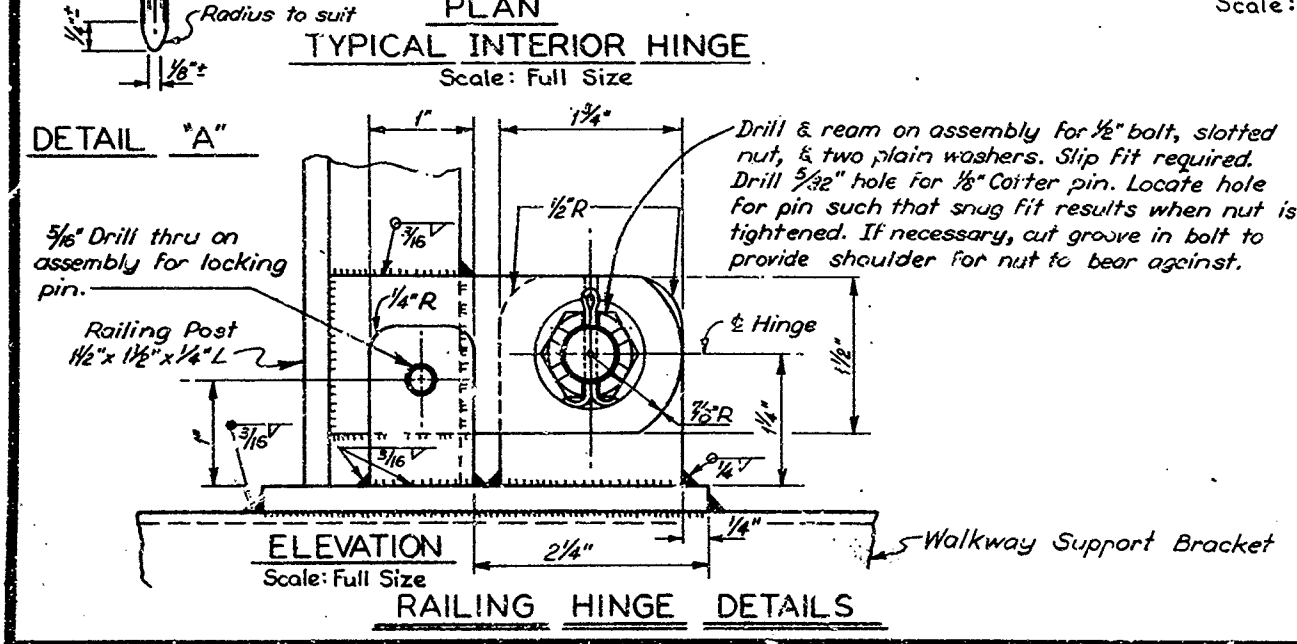
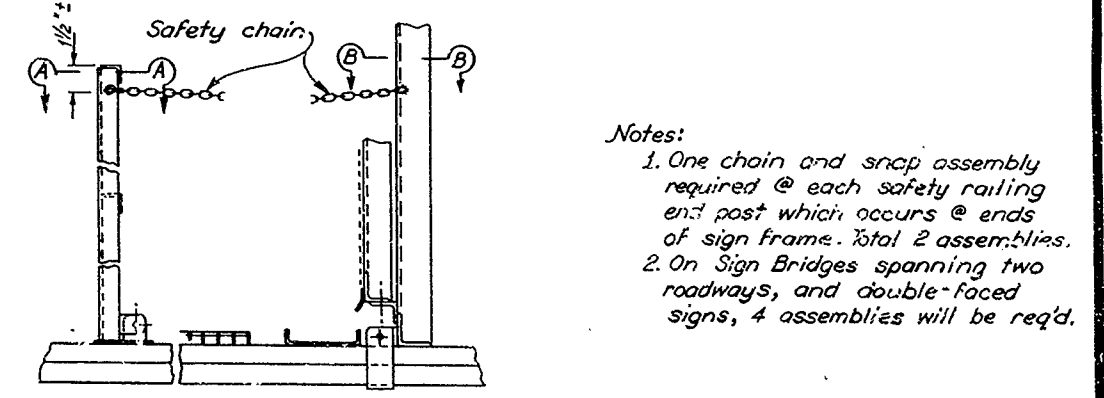
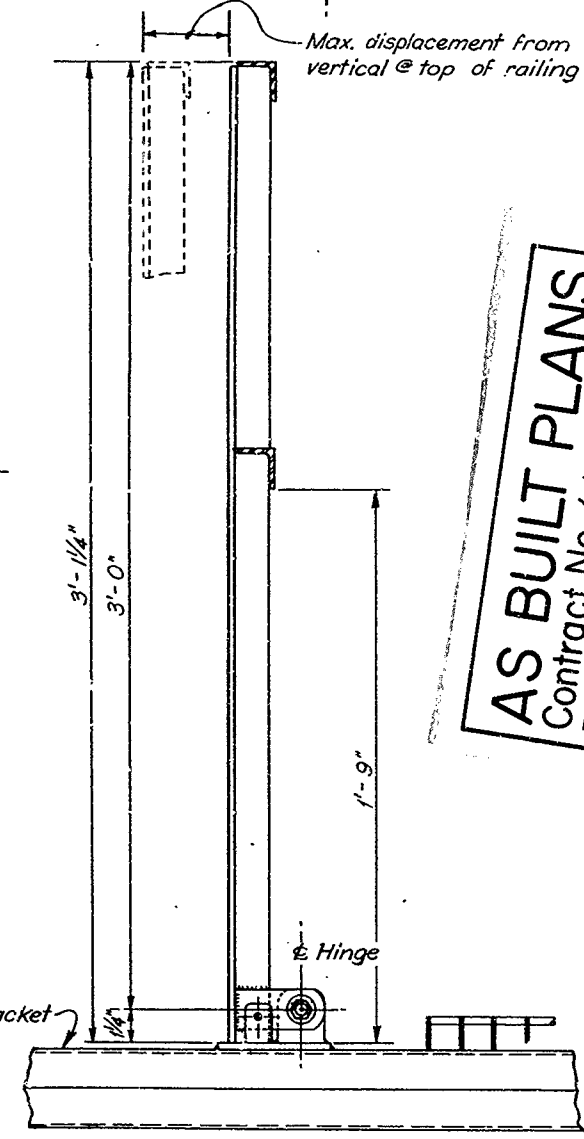
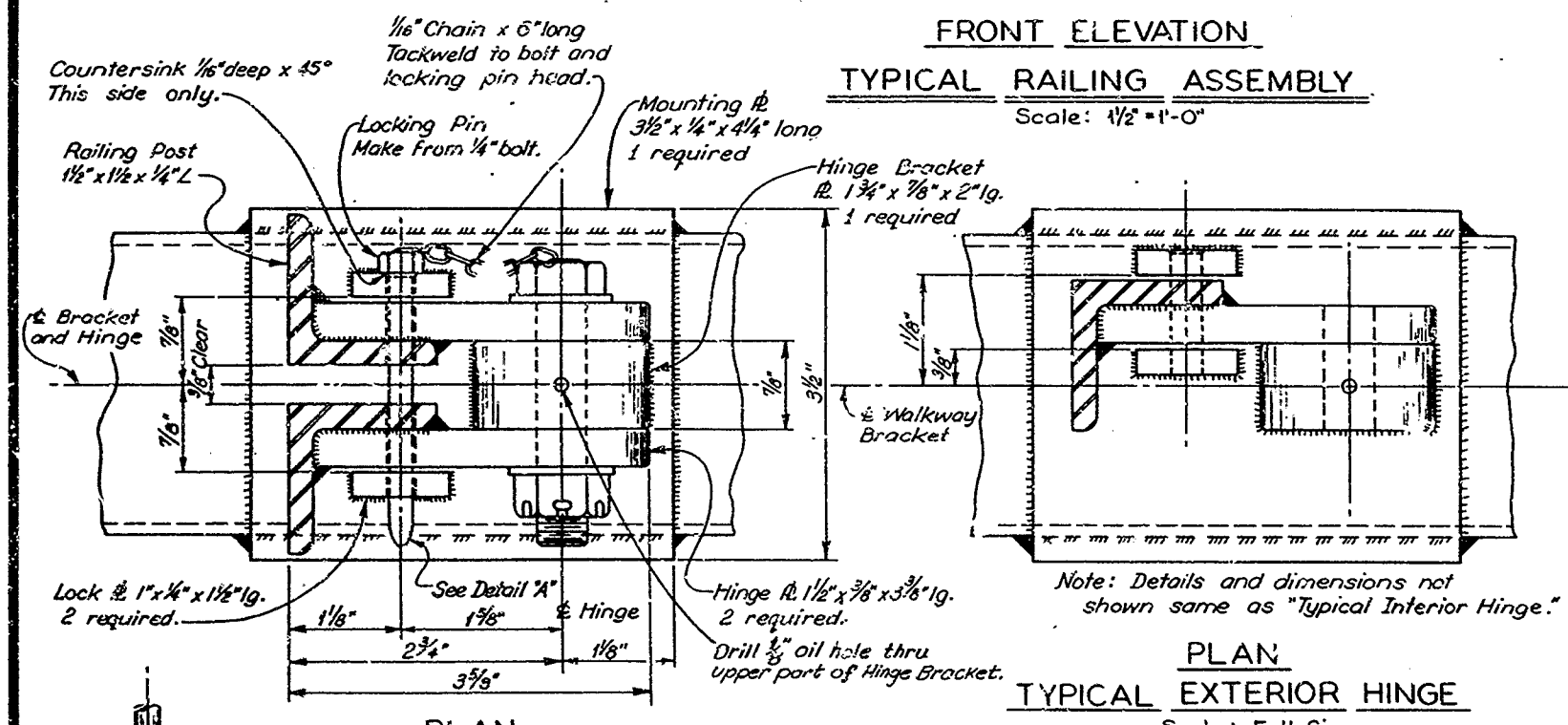
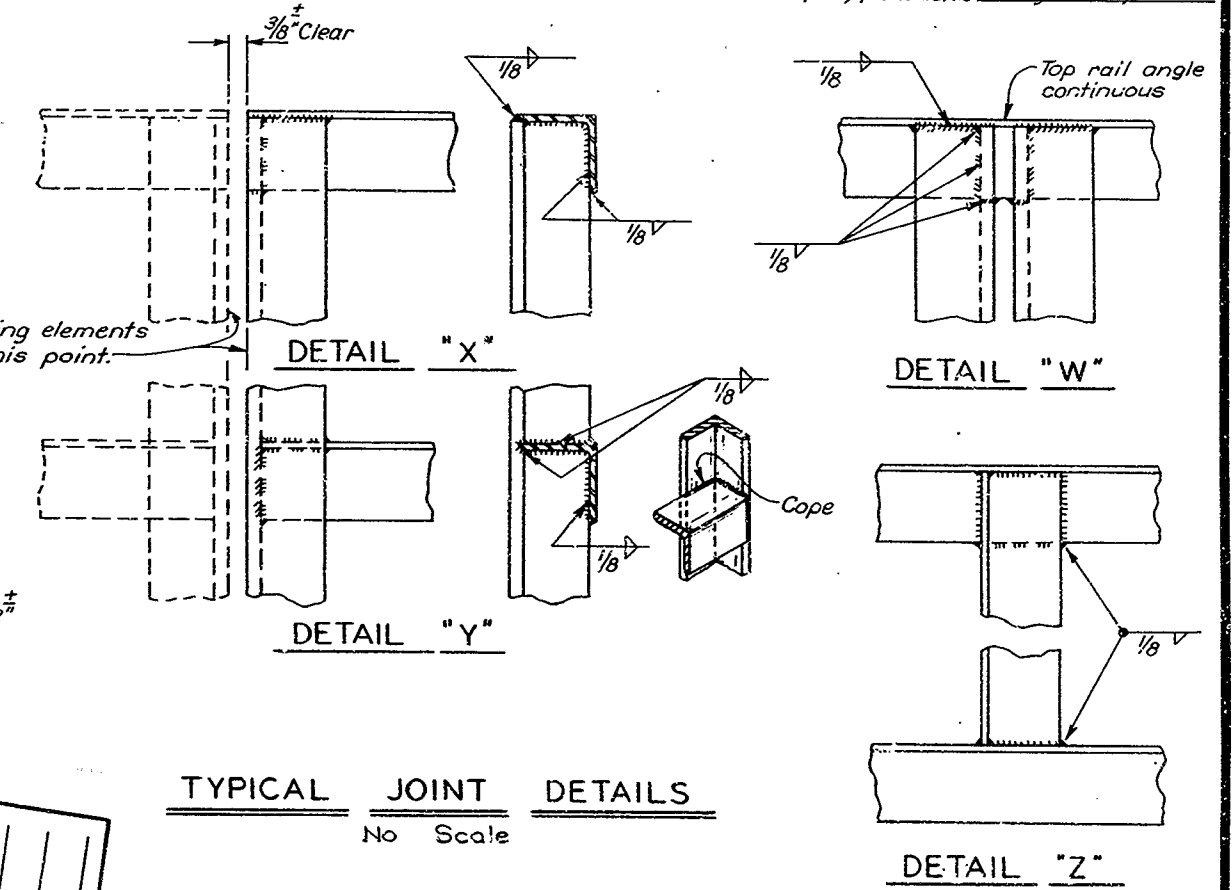
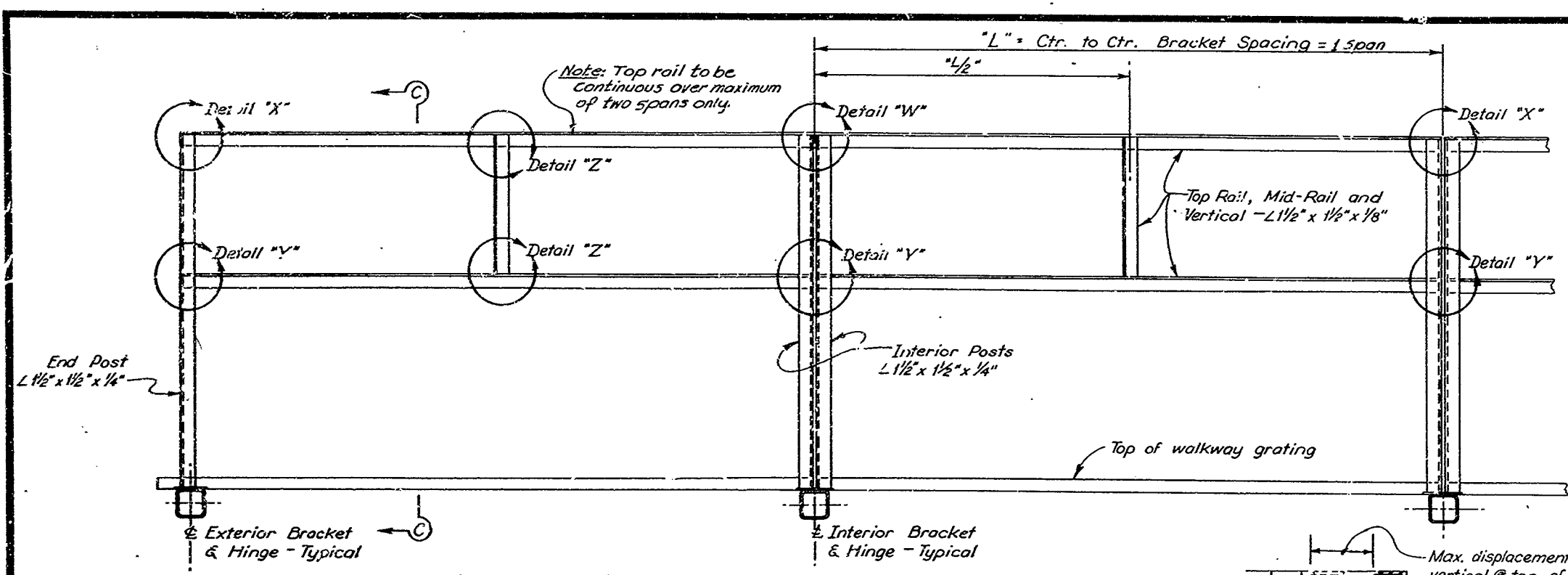
STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
STANDARD OVERHEAD SIGNS	
WALKWAY DETAILS NO. 2	
SCALE AS NOTED	BRIDGE _____
FILE XS-12-47	DRAWING _____

61-5V13C11

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			134	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
1	58	10	2	134	137

As per company plans dated August 15, 1960



AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 50000536

BRIDGE DEPARTMENT DESIGN SECTION			
Project Designer	C.R. Hickey		
Design	J.L. Bode 757	Checked	B. Jordan 12-57
Details	Johann P. Becker 757	Checked	J.L. Bode 757
Quantities		Checked	
Specifications		Checked	
Approval Recommended by	B. H. Hickey		

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS	
STANDARD OVERHEAD SIGNS	
WALKWAY SAFETY RAILING DETAILS	
SCALE: As NOTED	BRIDGE: _____
FILE: 15-18-48	DRAWING: _____

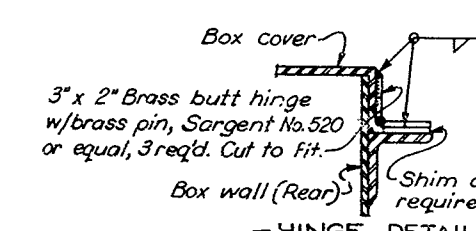
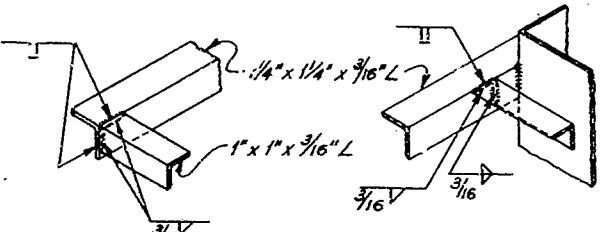
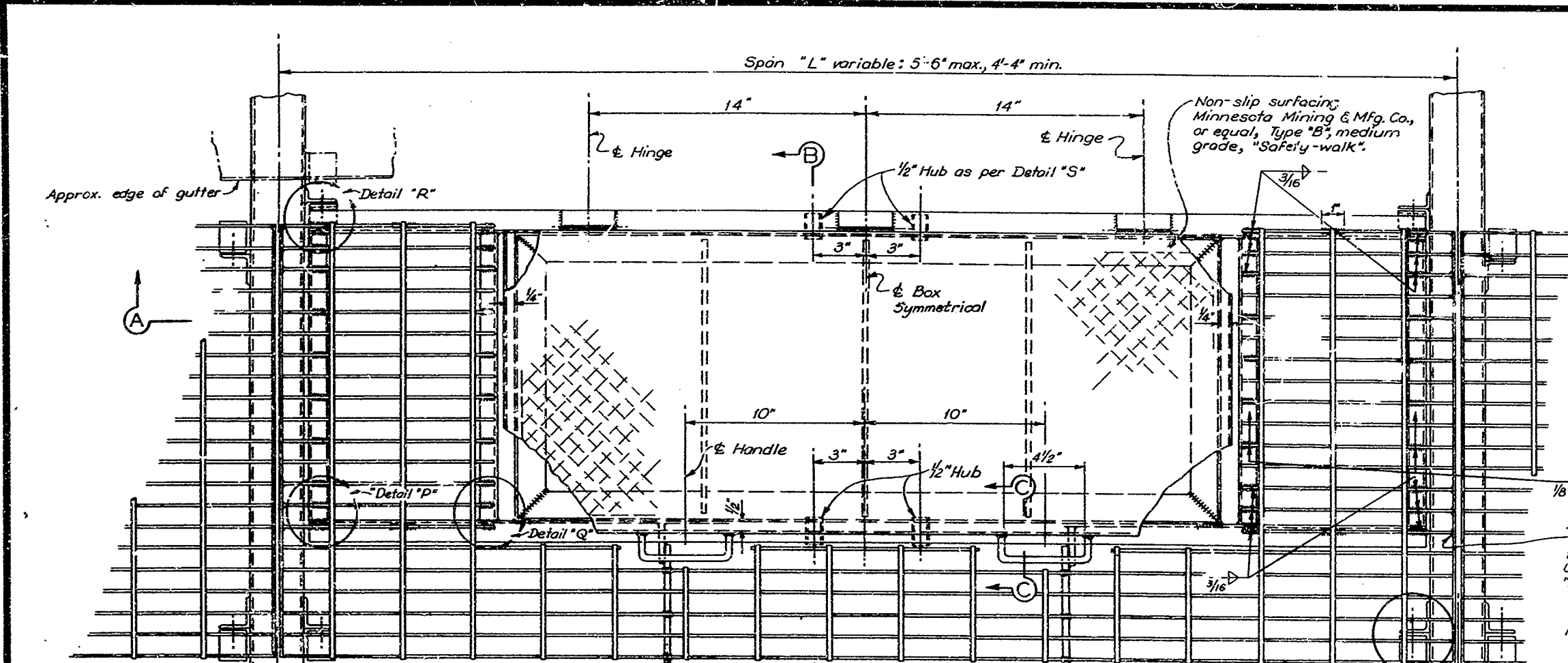
PREL. DRAWING NO. P- _____ S24

61-5V13C11

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.			135	204

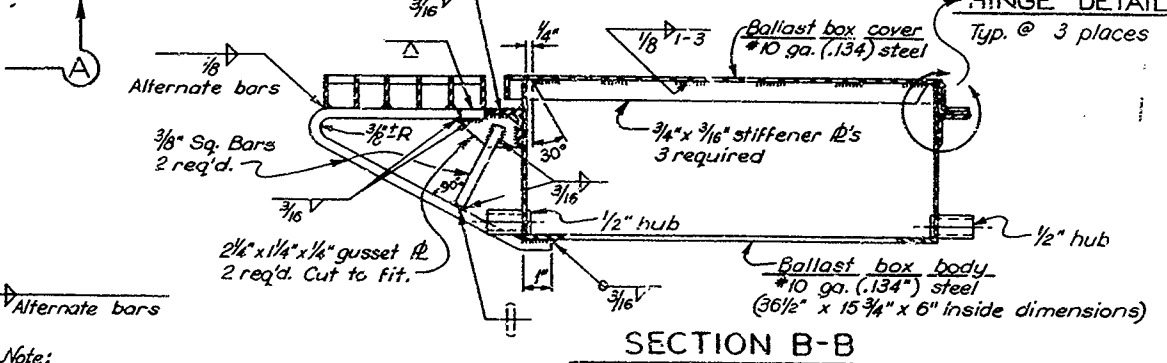
DATE: 8/13/60
 COUNTY: SAN DIEGO
 ROUTE: 2
 SECTION: 2
 SHEET: 135
 TOTAL: 204

To accompany plans dated August 13, 1960



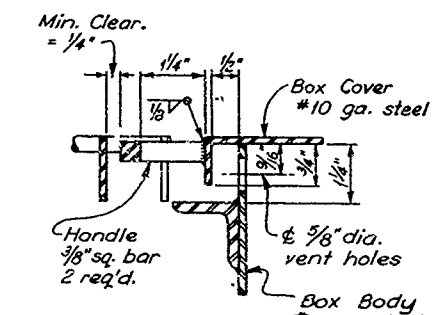
DETAIL 'P'
 Typical @ 4 places
 No Scale

DETAIL 'Q'
 Typical @ 4 places
 No Scale

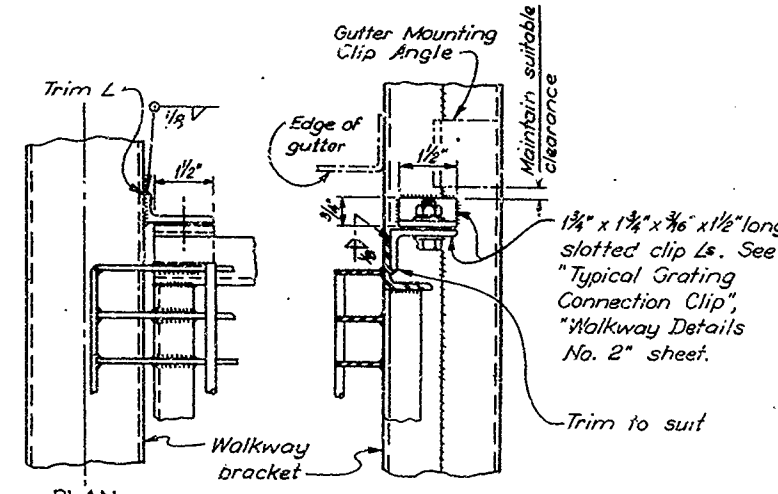


SECTION B-B

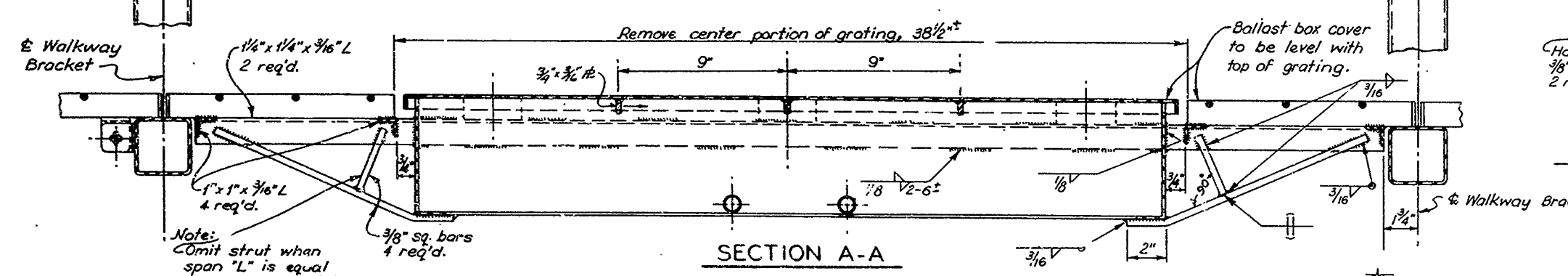
Note: All 3 bars opposite 3/16 welds to be welded to banding bar. Other welds same as Detail 'A' Walkway Details No. 2 sheet.



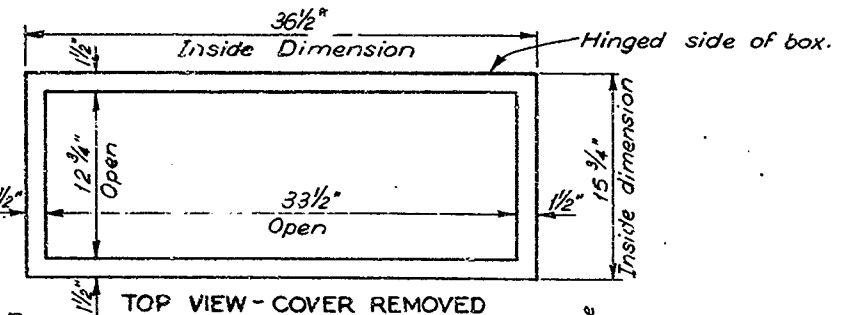
SECTION C-C



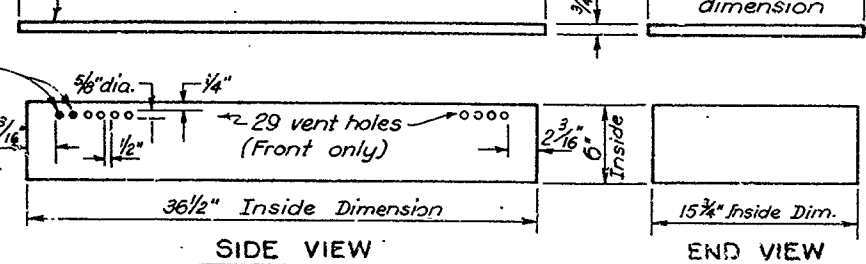
DETAIL 'R'
 Typical @ 2 places



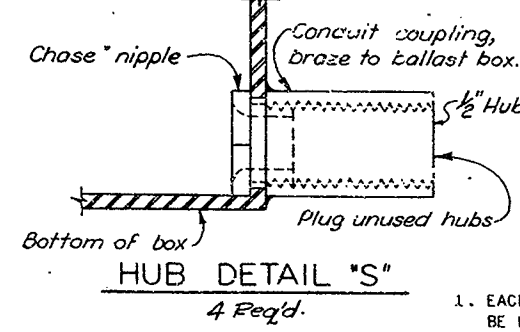
SECTION A-A



TOP VIEW - COVER REMOVED



SIDE VIEW
END VIEW



HUB DETAIL 'S'
 4 Req'd.

Notes:
 1. Ballast Box Assembly shall be all-welded construction and hot-dipped galvanized after fabrication.
 2. For walkway details not shown see "Walkway Details" sheets.

BALLAST BOX LOCATION

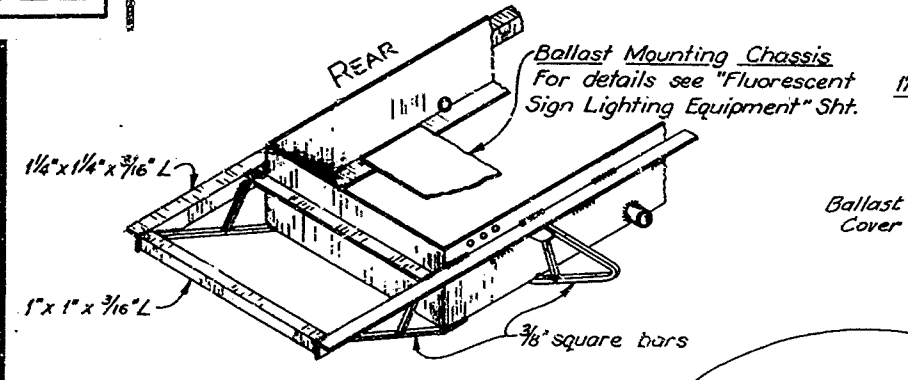
HEIGHT	LENGTH SERVED	NO. BALLASTS
40' - 70'	10' TO 16'	1
40' - 70'	18' TO 30'	2
80' - 120'	10'	1
80' - 120'	12' TO 16'	2
80' - 120'	18' TO 22'	3
80' - 120'	24' TO 30'	4

REQUIRED BALLASTS AS DETERMINED BY SIGN PANEL LENGTHS & HEIGHTS

HEIGHT	LENGTH SERVED	NO. BALLASTS
40' - 70'	10' TO 16'	1
40' - 70'	18' TO 30'	2
80' - 120'	10'	1
80' - 120'	12' TO 16'	2
80' - 120'	18' TO 22'	3
80' - 120'	24' TO 30'	4

Note: One ballast box accommodates up to 4 ballasts.

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed
 Document No. 52000-536



PARTIAL VIEW BALLAST BOX & FRAMING
 Note: Cover & grating not shown.

Cover all vent holes with 10 x 10 bronze screening secured with zinc alloy solder (inside)

Provide box with locking device for holding cover in open position and clear of sign panel.

BALLAST BOX DIMENSIONS AND VENTILATION DETAILS

DESIGN SECTION

Project Designer: *John A. Deane 10/57*
 Chief Designer: *C. R. Slattery*

DESIGN	by <i>F. L. Deane 10/57</i>	checked <i>B. Jensen 12-57</i>
DETAILS	by <i>NoAnn Becker 12/57</i>	checked <i>F. L. Deane 10/57</i>
QUANTITIES	by	checked
SPECIFICATIONS	by	checked

Approved Recommended by: *[Signature]* Date: *8/13/60*

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

STANDARD OVERHEAD SIGNS

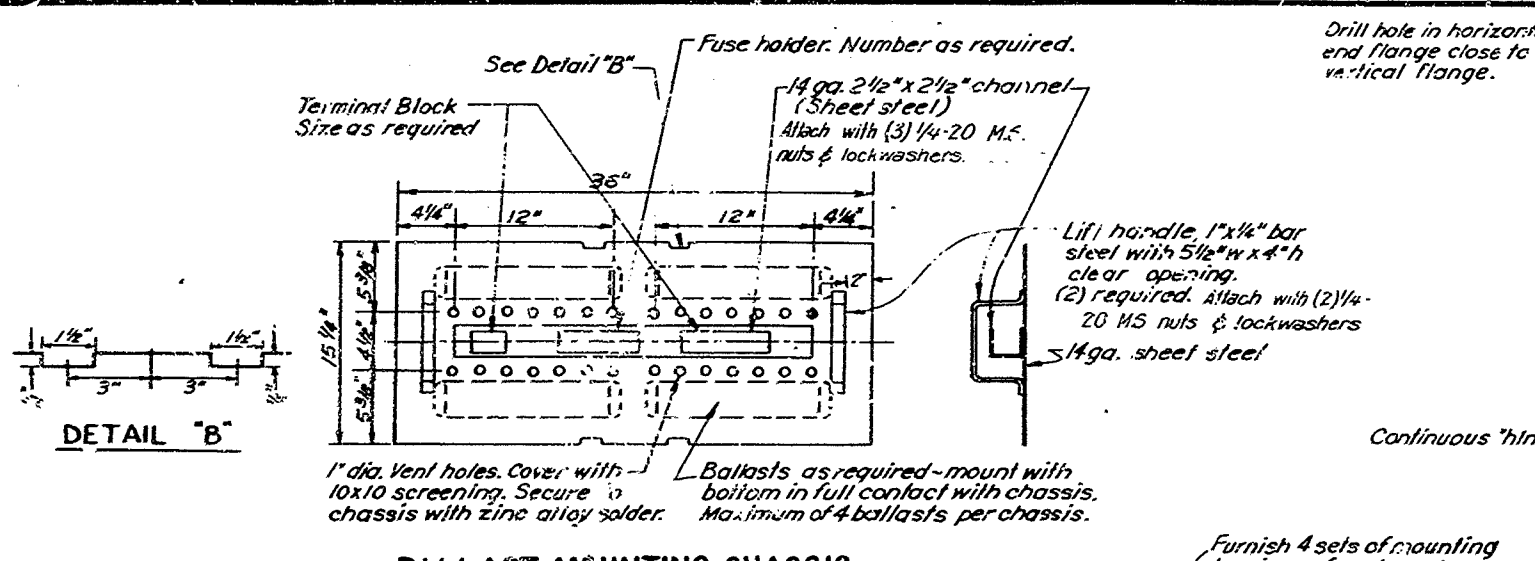
WALKWAY-MOUNTED BALLAST BOX

SCALE: NONE BRIDGE FILE DRAWING
 PREL. DRAWING No. P.

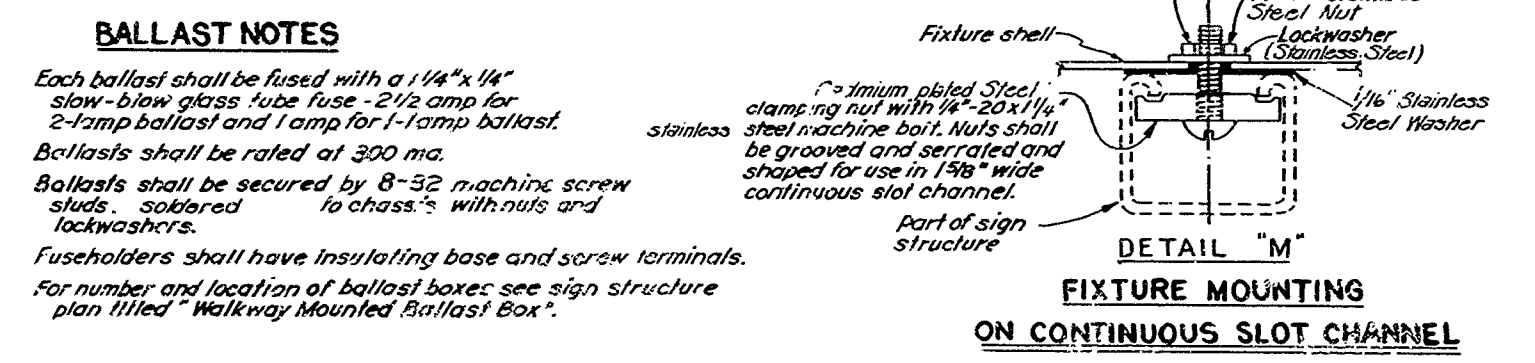
61-5V13C11

NO.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SBSLO	2	LSMaf	136	137

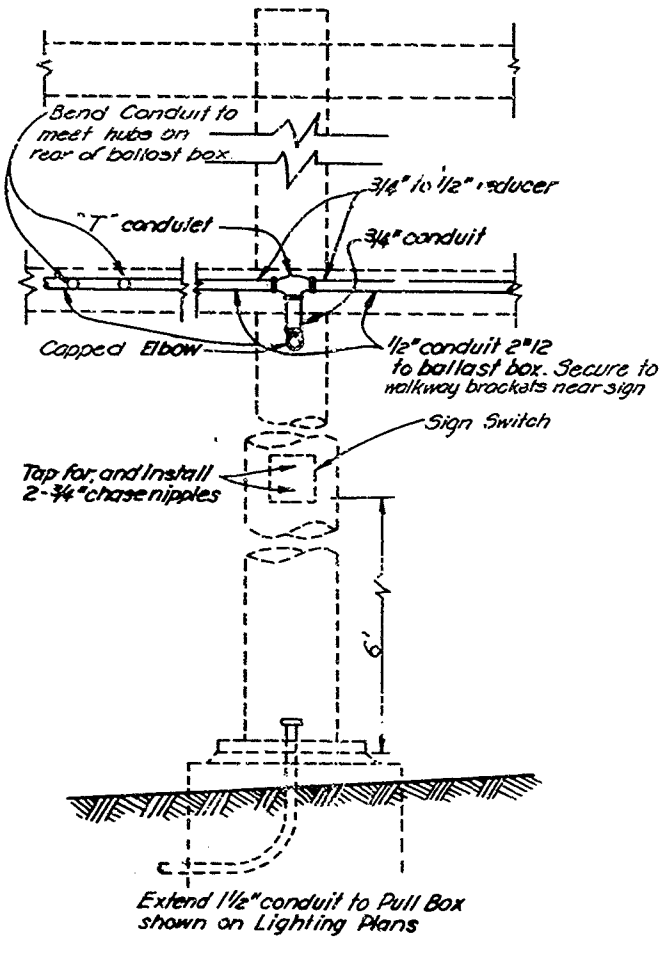
APPROVED: *[Signature]*
 TRAFFIC ENGINEER, CIVIL ENGINE, U.C. 5420
 DATE: August 15, 1960



BALLAST MOUNTING CHASSIS
 No Scale

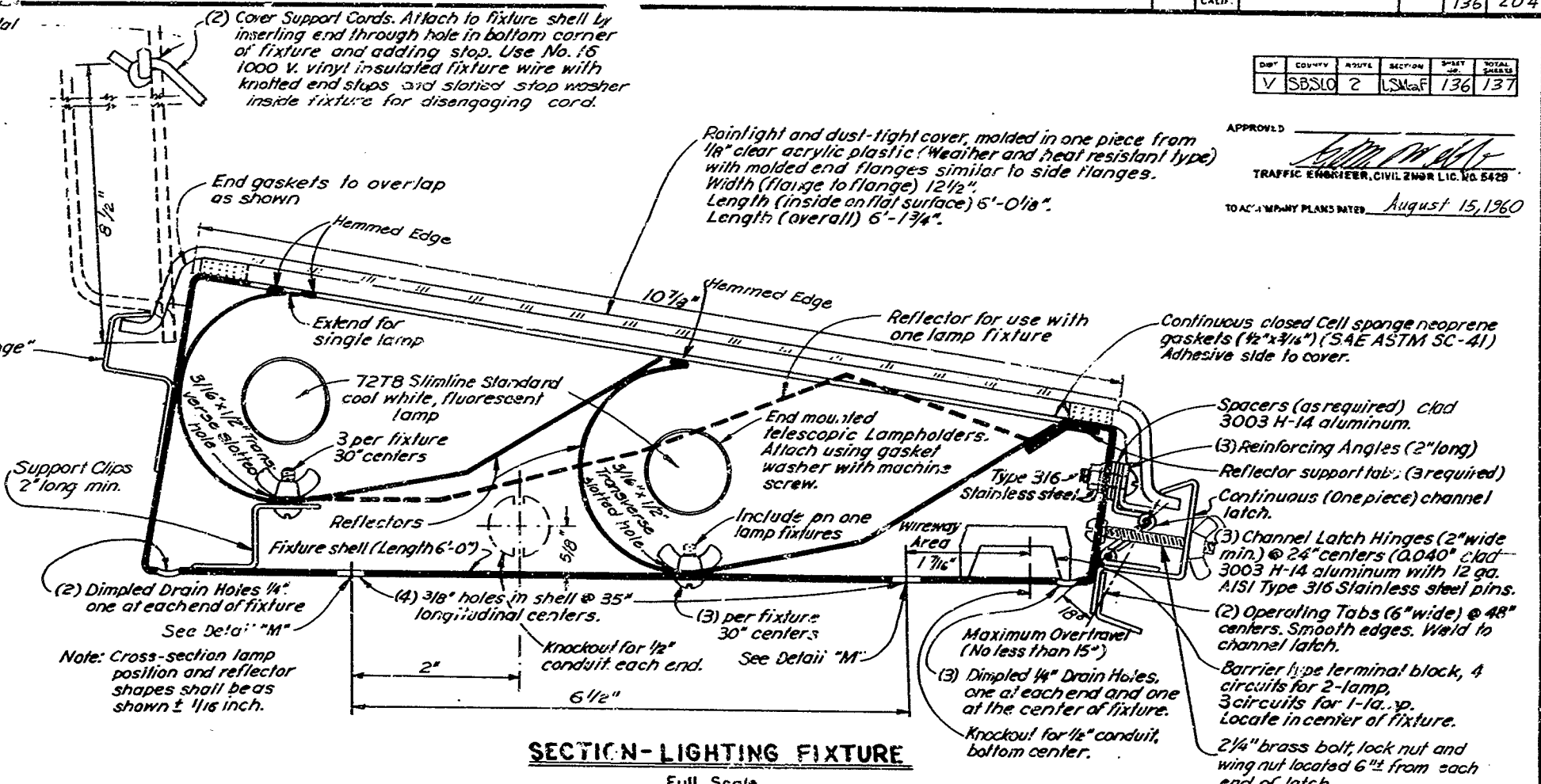


FIXTURE MOUNTING ON CONTINUOUS SLOT CHANNEL
 Full Scale

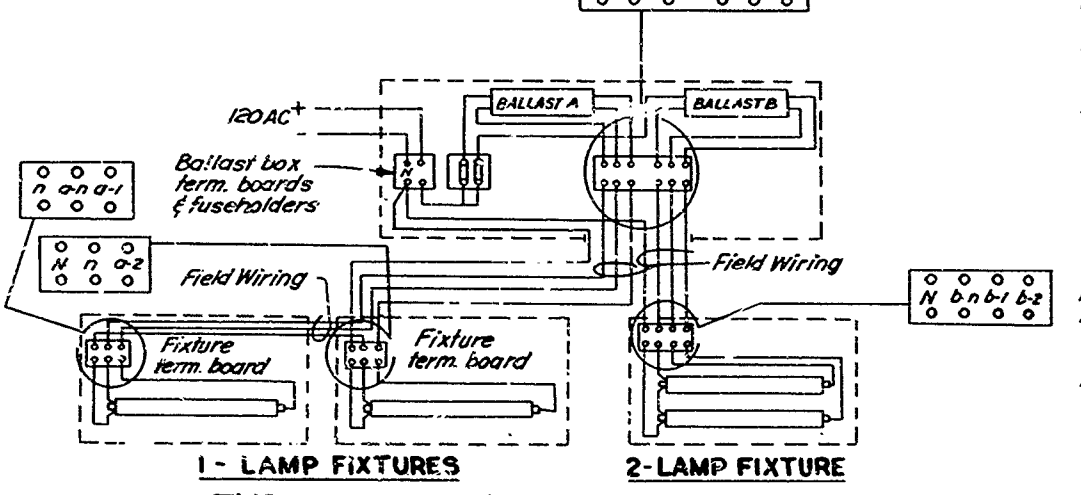


TYPICAL WIRING AND SIGN SWITCH INSTALLATION DETAILS
 No Scale

LIGHTING FIXTURE DATA					TRANSFORMER AND LOAD DATA		
LENGTH OF PANEL (FEET)	HEIGHT OF PANEL (INCHES)	NUMBER OF FIXTURES	NUMBER OF LAMPS	CONSECUTIVE SPACING FROM LEFT EDGE OF PANEL TO CENTER OF FIXTURES (INCHES)	TOTAL NUMBER OF LAMPS	SM TRANSFORMER MINIMUM SIZE (VA)	SIGN LOAD (WATTS)
10	40-70	1	2	60	1	75	70
	80-120				2	150	131
12	40-70	2	4	36.574	3	225	201
	80-120				4	300	262
14	40-70	2	2	42.84	5	375	332
	80-120				6	450	393
16	40-70	2	2	47.5, 97	7	525	443
	80-120				8	600	524
18	40-70	3	3	36.5, 74, 74	9	750	655
	80-120				10	900	785
20	40-70	3	3	40, 80, 80	11	900	794
	80-120				12	1050	856
22	40-70	3	3	44, 88, 88	13	1050	917
	80-120				14	1200	987
24	40-70	4	4	36.5, 74, 74, 74	15	1200	1048
	80-120				16	1350	1118
26	40-70	4	4	39, 78, 78, 78	17	1350	1179
	80-120				18	1500	1249
28	40-70	4	4	42, 84, 84, 84	19	1500	1310
	80-120				20	1500	1310
30	40-70	4	4	45, 90, 90, 90			
	80-120						
32	40-70	5	5	38, 77, 77, 77, 77			
	80-120						
34	40-70	5	5	42, 81, 81, 81, 81			
	80-120						
36	40-70	5	5	44, 88, 88, 88, 88			
	80-120						
38	40-70	6	6	38, 76, 76, 76, 76, 76			
	80-120						
40	40-70	6	6	40, 80, 80, 80, 80, 80			
	80-120						



SECTION-LIGHTING FIXTURE
 Full Scale



TYPICAL FIXTURE WIRING DIAGRAM
WIRING NOTES

Wiring between ballast box and nearest fixture and between fixtures shall be run in 1/2" liquid-tight flexible conduit. Flexible conduit shall be secured to nearest walkway structural member by steel using galvanized bonding strap and brass machine screws.
 Ballasts and terminal boards shall be marked with legible symbols, conductors shall be tagged and identified on the corresponding terminal on the terminal board as shown on the Typical Fixture Wiring Diagram. See Special Provisions for additional specifications.

FIXTURE NOTES
 Two lamp fixtures shall be used for signs over 70" in vertical dimension. One lamp fixtures for 70" signs and smaller.
 Lighting fixtures shall be fabricated of 0.064" clad 3003 H-14 aluminum, unless otherwise indicated. Machine screw parts and lockwashers for fixture shall be aluminum, unless otherwise indicated.
 Reflectors shall be made of 0.020" (min.) thickness aluminum with specular finish, and shall be 69" long. The finish shall be at least equivalent to that of Alcoa Alzak Type 2 Lighting Sheet in degree of specularly, corrosion and abrasion resistance and ease of cleaning. Reflectors shall be easily removable for cleaning without need for permanently distorting the reflector shape. Acceptable reflector materials will be (1) Alcoa Alzak Type 1 Lighting Sheet or equal, (2) Alcoa Alzak Type 2 Lighting Sheet, or equal, (3) Mylar plastic film with specular metallized backing bonded to sheet aluminum (Dynasyl or equal). Machine screws shall be 8-32 with nuts and lockwashers (except as noted). Manufacturer shall submit five copies of shop drawings to the Engineer for approval prior to fabrication if fixtures have not previously been fabricated.
 For method of mounting fluorescent fixtures see Walkways plan titled "Walkway Details No. 2".
 After fabrication metal parts shall be thoroughly cleaned and degreased and shall have a well finished appearance. Painting will not be required.

GENERAL NOTE - METALS
 Where steel is indicated part shall be hot-dip galvanized after fabrication. Where sheet steel is indicated, part shall be fabricated from hot-dipped galvanized sheet steel. After fabrication, edges and flans in galvanizing shall be cleaned and painted with two coats of Mil Spec. Mil-P-21335. Other metal parts shall be made of bronze, phosphor bronze, brass, copper, beryllium, or AISI Type 316 stainless steel unless otherwise noted.

AS BUILT PLANS
 Contract No. 61-5V13C-11
 Date Completed
 Document No. 50000536

61-5V13C11

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

FLUORESCENT SIGN LIGHTING EQUIPMENT

Scale as Noted
 REVISED: 5-27-60 NEM.
 DRAWING NO. E

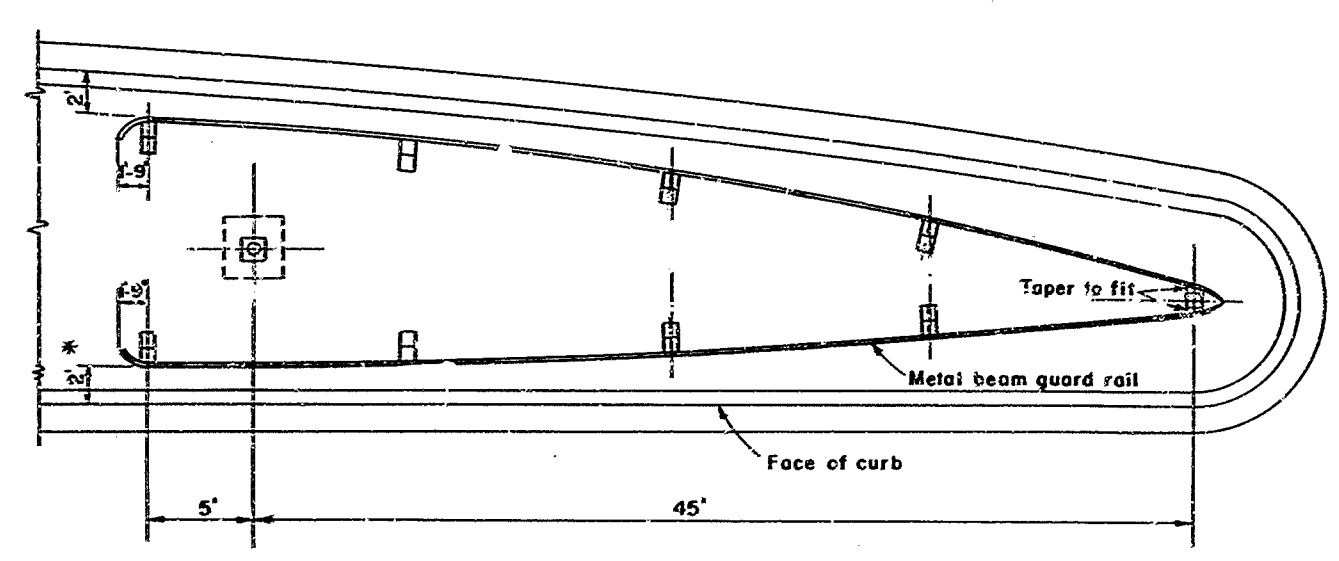
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	CALIF.			137	204

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
V	SB	SLO	2	137	137

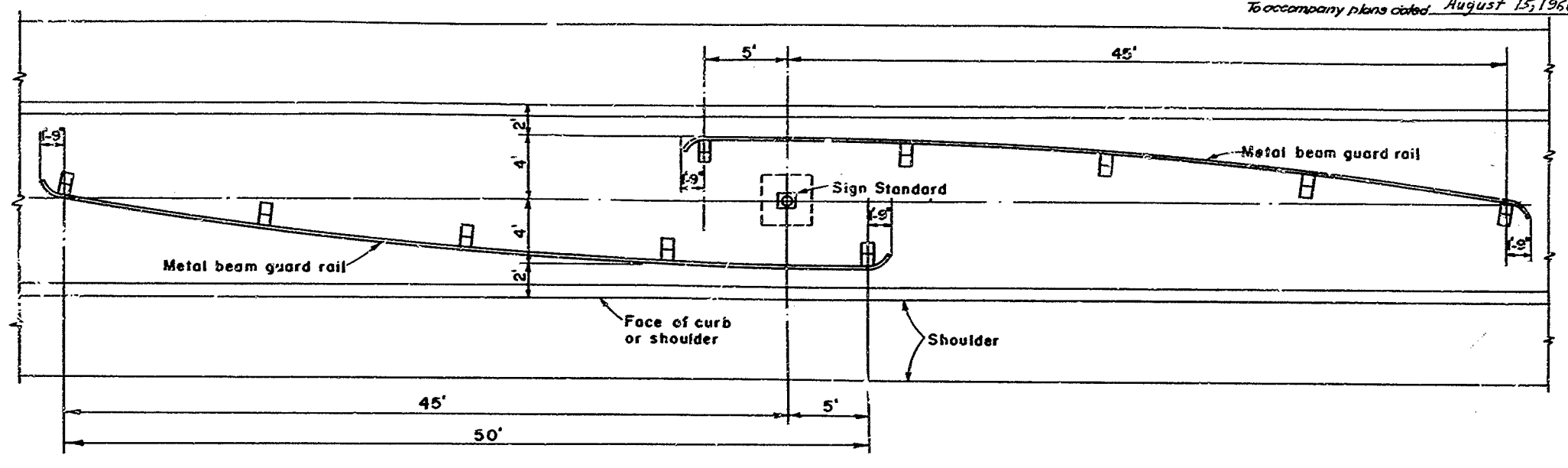
DATE APPROVED: 11-24-59
 CIVIL ENGINEER - LICENSE 9429
[Signature]

To accompany plans dated August 15, 1960

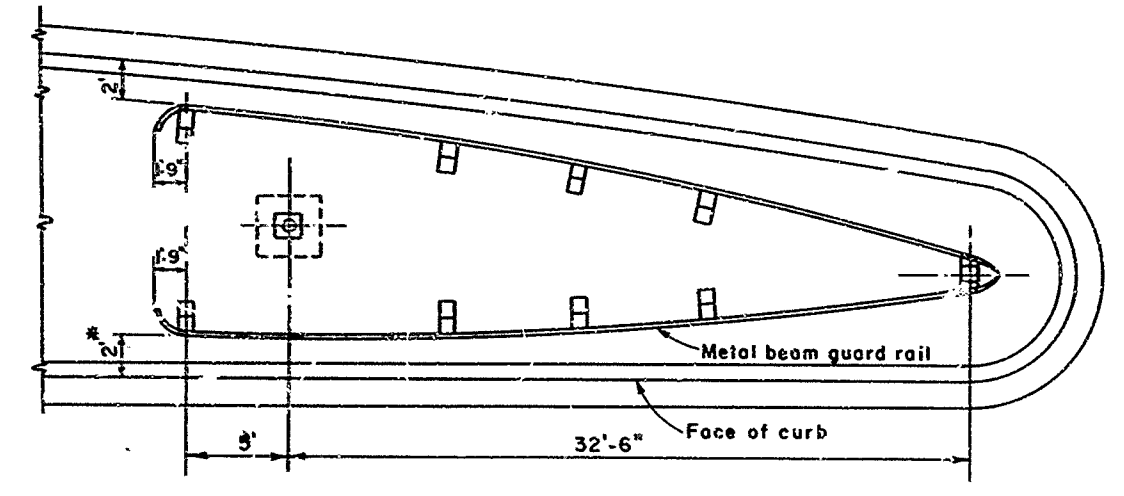
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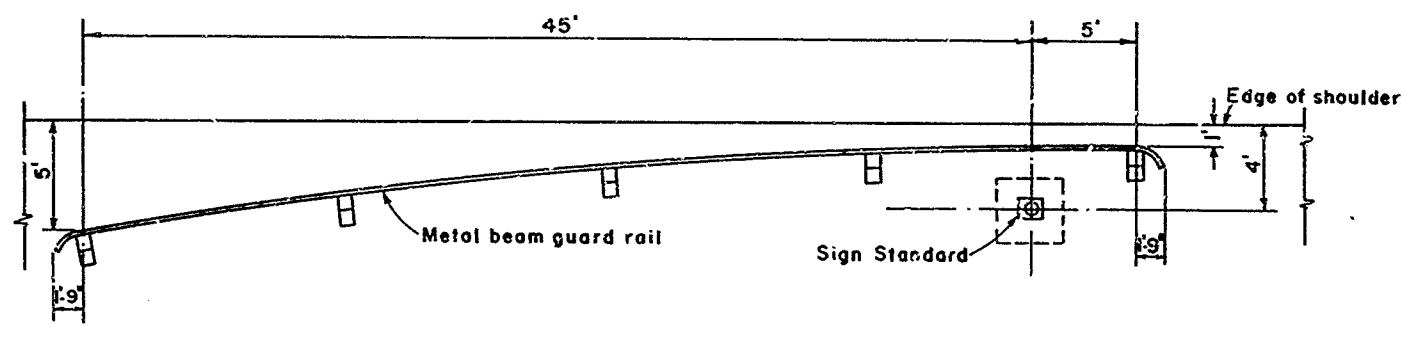
STANDARD GORE INSTALLATION



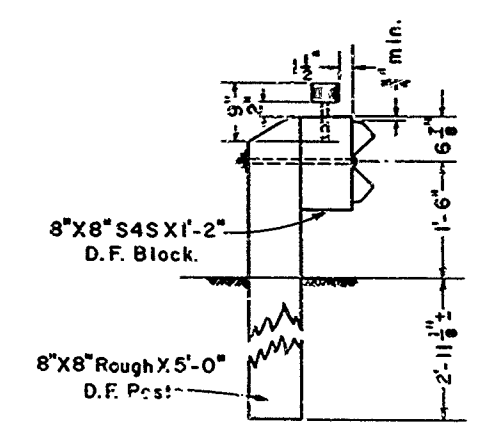
MEDIAN INSTALLATION



OPTIONAL GORE INSTALLATION



SHOULDER INSTALLATION



ONE-WAY ROADWAY
 METAL BEAM GUARD RAILING

Note:
 Offset distances as shown are desired minimum,
 may be adjusted to suit individual cases.
 * Where there is a full shoulder between edge of pavement and curb,
 guard rail may be flush with face of curb as directed by Engineer.

AS BUILT PLANS
 Contract No. 61-5V13C11
 Date Completed _____
 Document No. 50000536

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS		
STANDARD GUARD RAIL PROTECTION FOR OVERHEAD SIGNS		
SCALE: 1"=6'	FILE	DRAWING

61-5V13C11

S26-1

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