

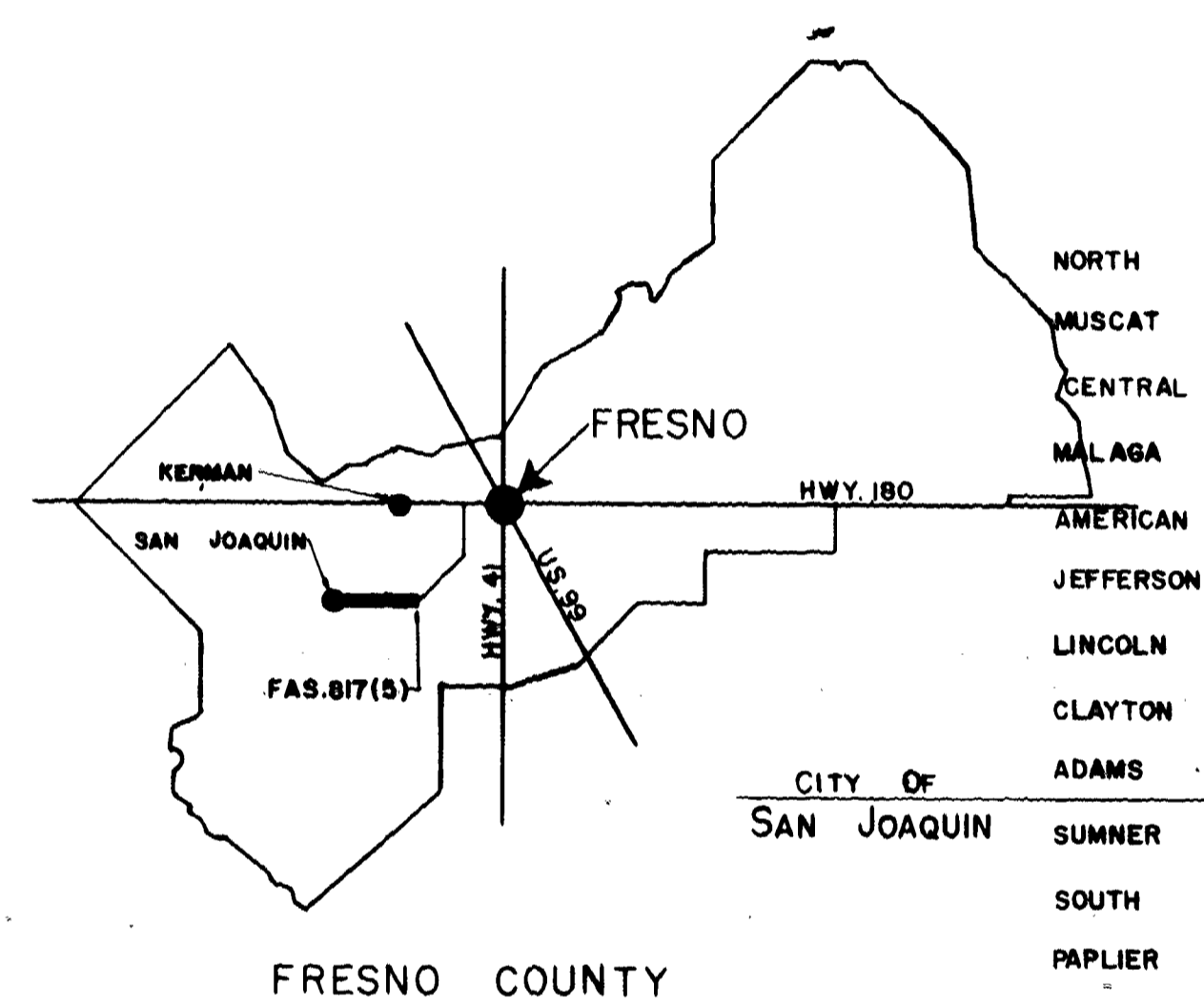
INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
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SHEET NO. 20	STRUCTURE EXCAVATION & STRUCTURE BACKFILL
BRIDGE PLANS	
SHEET NO. 1-7	JAMES CANAL BR. NO. 42C-65, FRESNO SLOUGH BYPASS BR. NO. 42C-67 & FRESNO SLOUGH BR. NO. 42C-66

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

COUNTY OF FRESNO
PLAN AND PROFILE
FEDERAL AID SECONDARY PROJECT
NO. S. 817 (5)
 MANNING AVE. BETWEEN COLORADO ROAD AND MC MULLIN GRADE.
 TOTAL LENGTH 7.708 MILES

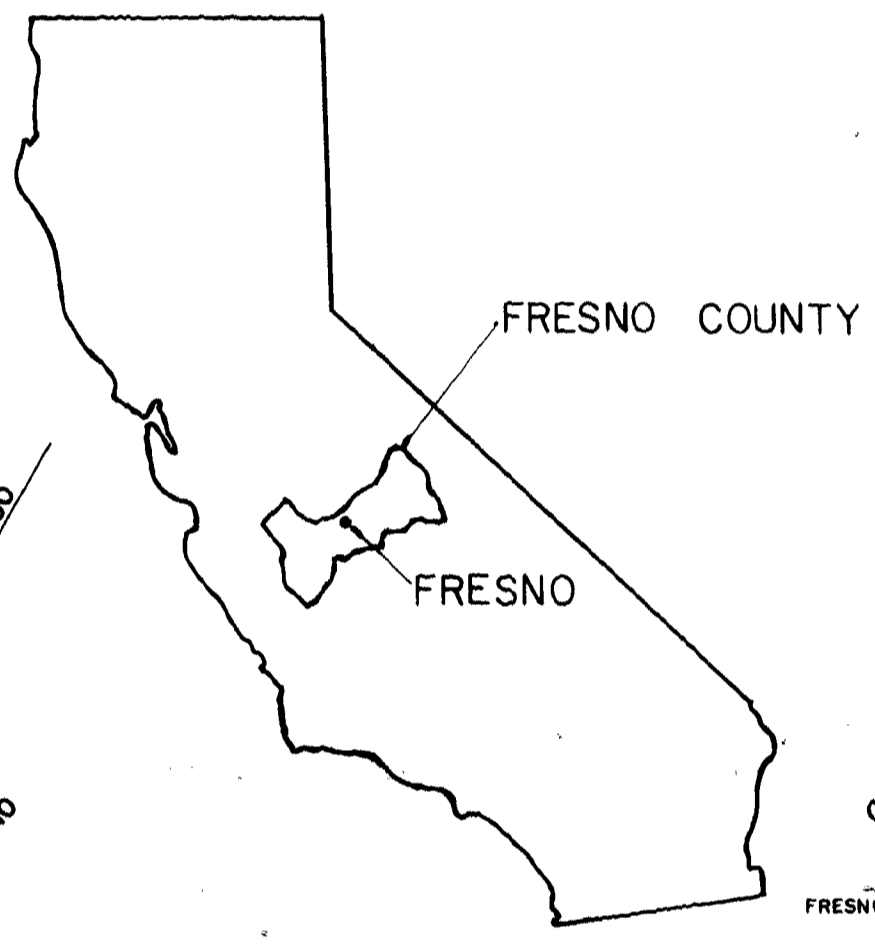
PROJECT NO.	VI	817	5	1	27
DIST.	FRESNO	817	5	1	27
COUNTY	FRESNO	817	5	1	27
ROUTE	817	5	1	27	
SEC.	1	27			
DATE	1957				



R. 17, E.

AVE.	26	25	30	29	28	27	26	25	30	29
AVE.	26	25	30	29	28	27	26	25	30	29
AVE.	36	31	32	33	34	35	36	31	32	
AVE.	2	6	4	3	2	1	6	5		
AVE.	11	12	7	8	9	10	11	12	7	8
AVE.	14	13	18	17	16	15	14	13	18	17
AVE.	23	24	19	20	21	22	23	24	19	20
AVE.	26	25	30	29	28	27	26	25	30	29
AVE.	35	36	31	32	33	34	35	36	31	32
AVE.	2	6	4	3	2	1	6	5		
AVE.	11	12	7	8	9	10	11	12	7	8

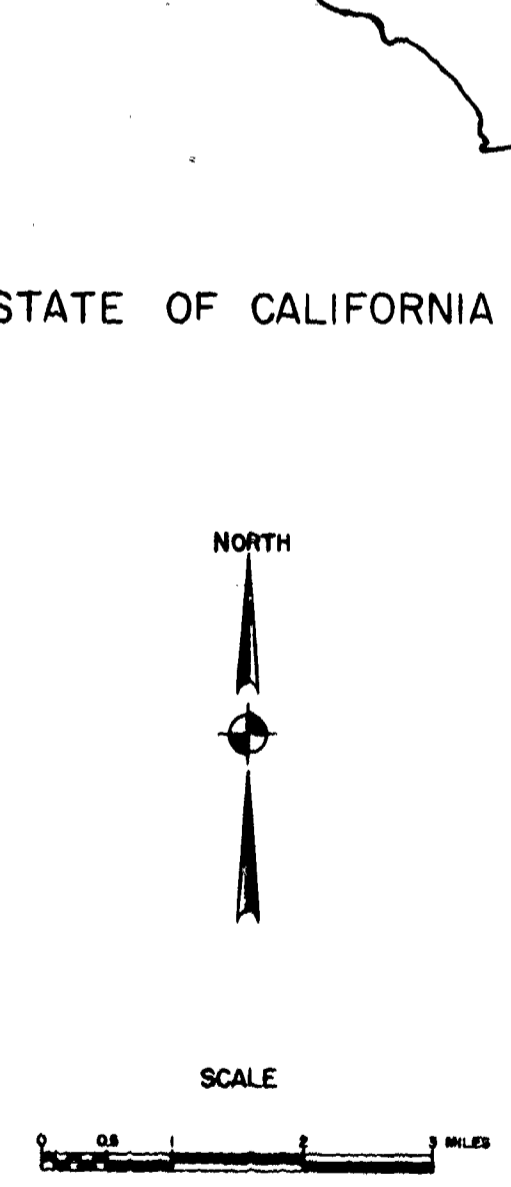
R. 17, E.



CONVENTIONAL SIGNS

County Line	Bank or Retaining Wall
City or Town Limits	Levee
Proposed Line	Culverts
Section Line	Drop Inlet
Grant Line	Trolley Pole
Right of Way	Power Pole
Guard Rail	Power Tower
Unimproved Property	Telegraph or Telephone Pole
Right of Way Line	Marsh
Base of Survey Line	
Traveled Way	
Righting Tracks	

- VICINITY MAP**
- ELDORADO AVE.
 - BUTTER AVE.
 - COLUSA AVE.
 - PLACER AVE.
 - YUBA AVE.
 - GLENN AVE.
 - BUTTE AVE.
 - PLUMAS AVE.
 - LANE AVE.
 - HUMBOLT AVE.
 - TRINITY AVE.
 - SHASTA AVE.
 - LASSEN AVE.
 - WADSWORTH AVE.
 - SISKIYOU AVE.
 - DEL NORTE AVE.
 - MADERA AVE.
 - VINELAND AVE.
 - GOLDENROCK
 - STYCAMORE
 - HOWARD



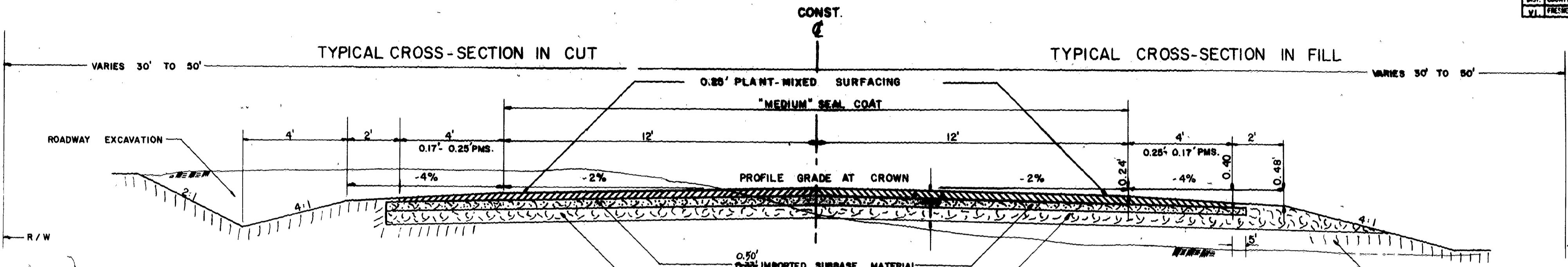
COUNTY OF FRESNO
 FRESNO COUNTY COMMISSIONER OF PUBLIC WORKS
 CIVIL ENGINEER LICENSE NO. 8737

STATE OF CALIFORNIA
 DISTRICT ENGINEER
 APPROVED September 24, 1958
 G. T. McCoy
 STATE HIGHWAY ENGINEER
 CIVIL ENGINEER LICENSE NO. 4000

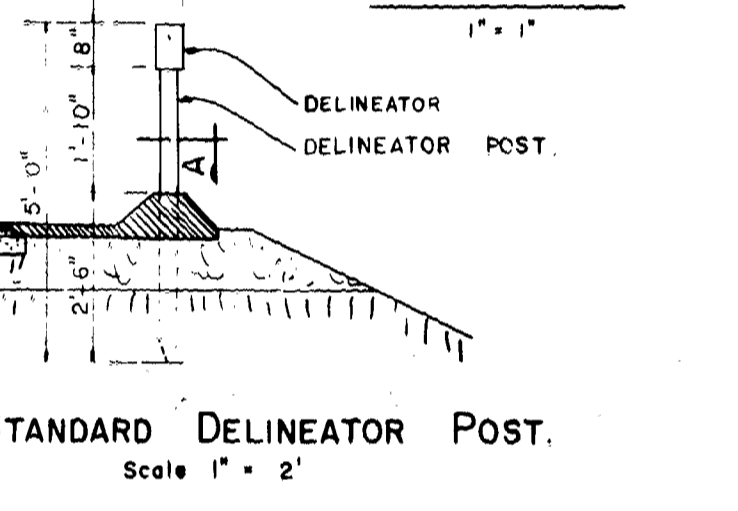
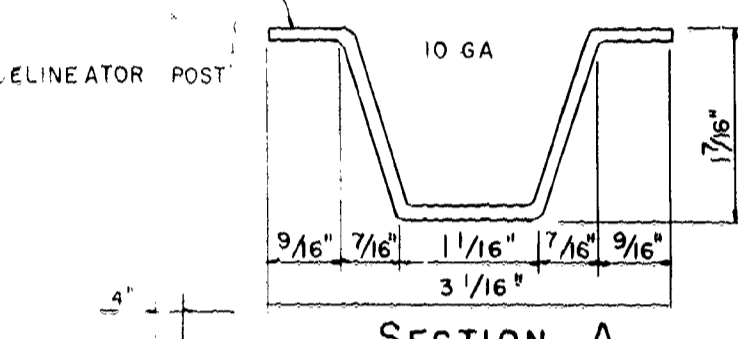
57-6DDG14P

1-27

REDUCED PLANS
 USE SCALE BELOW



NOTE:
NO IMPORTED BORROW SHALL BE PLACED WITHIN 1.0' OF FINISHED GRADE.

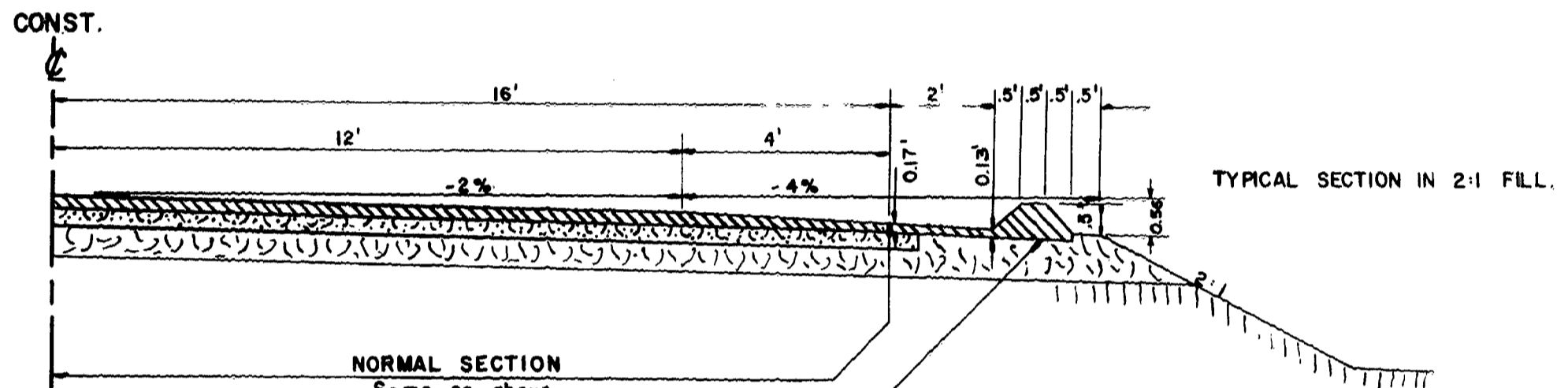


STATION TO STATION "T"		
599.00	618.00	1.58'
618.00	648.00	1.67'
648.00	663.00	1.83'
663.00	693.00	1.42'
693.00	708.00	1.33'
708.00	723.00	0.58'
723.00	738.00	1.67'
738.00	749.88	0.83'
750.58	751.72	0.83'
753.52	760.00	0.83'
760.00	765.36	0.58'
765.36	783.00	0.58'
783.00	798.00	0.75'
798.00	813.00	1.33'
813.00	828.00	0.92'
828.00	843.00	0.58'
843.00	858.00	1.08'
858.00	873.00	0.75'
873.00	903.00	0.58'
903.00	933.00	1.00'
933.00	963.00	0.58'
963.00	978.00	0.92'
978.00	1006.00	0.58'

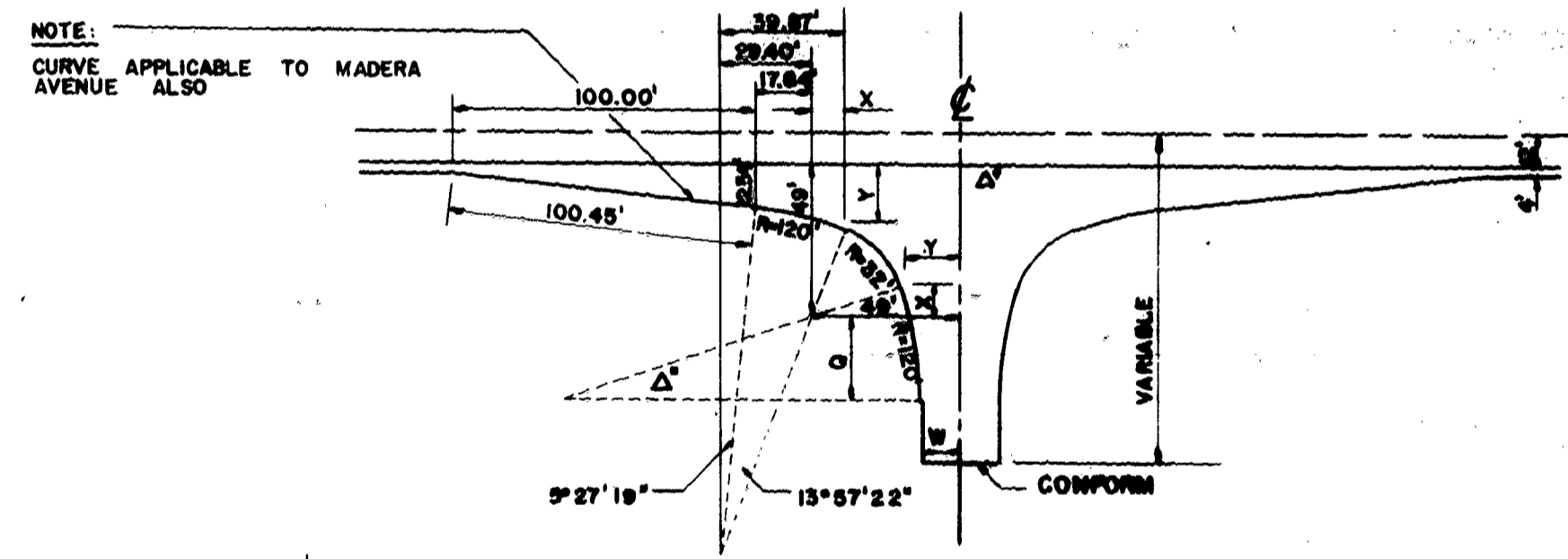
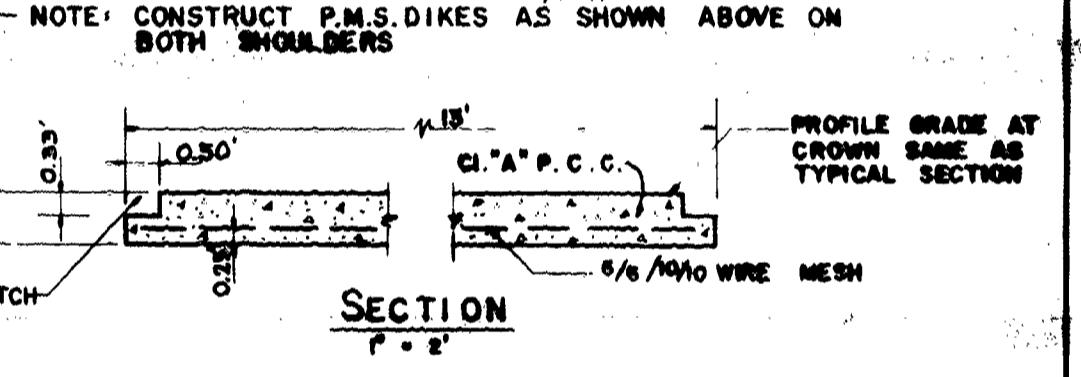
DELINEATOR POSTS	
NORTH STA.	SOUTH STA.
740.00	741.00
742.00	743.00
744.00	746.00
746.00	747.00
748.00	749.00
754.00	755.00
756.00	757.00
758.00	759.00
760.00	761.00
762.00	763.00
764.00	767.00
768.00	769.00
770.00	771.00
772.00	773.00
774.00	775.00

DOWNDRAINS		
STA.	N/S	S/S
742.00	12'	12'
747.00	16'	16'
750.80	16'	32'
753.90	20'	20'
748.00	18'	18'
770.00	10'	10'
775.00	10'	10'

* LENGTH INCLUDES TAPERED DOWNDRAIN UNIT

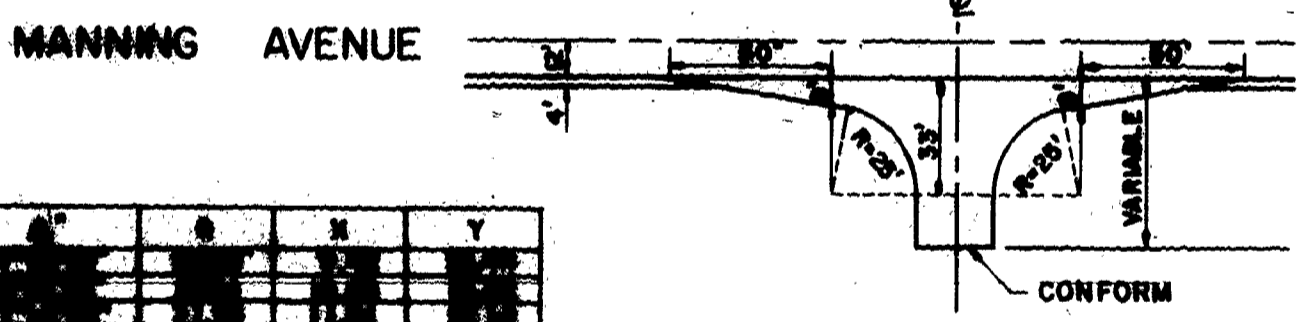


PLACING P.M.S. DIKES	L.F.
STA. 742 + 00 TO STA. 749 + 88	1586'
STA. 750 + 68 TO STA. 751 + 72	238'
STA. 753 + 52 TO STA. 765 + 36	2326'
STA. 766 + 06 TO STA. 775 + 00	1788'
	5880'



STANDARD PUBLIC ROAD CONNECTION

SCALE 1" = 40'



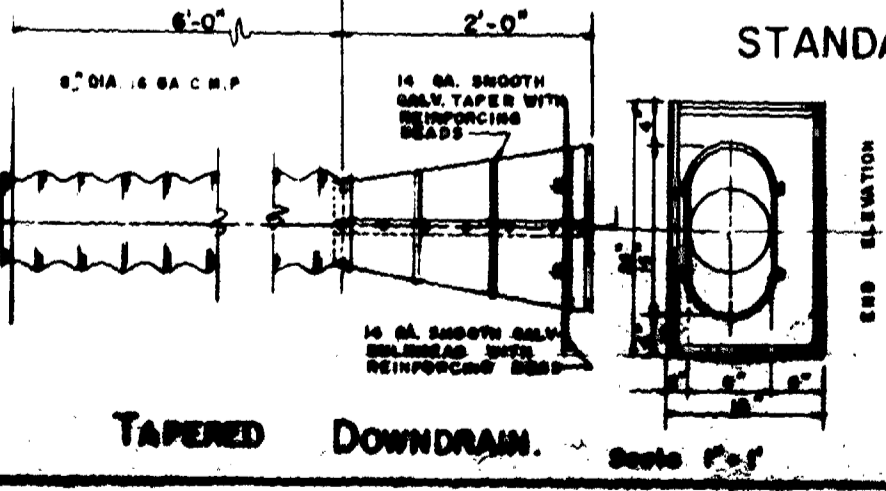
STANDARD PRIVATE ROAD CONNECTION

SCALE 1" = 40'

MANNING AVENUE, COLORADO ROAD TO Mc. MULLIN GRADE.

TYPICAL CROSS-SECTIONS

SCALE AS SHOWN



TAPERED DOWNDRAIN

Approved: Carl F. Lind
Fresno County Commissioner of Public Works
Civil Engineer License No. 5737

Approved: [Signature]
District Engineer

Approved: [Signature]
Civil Engineer

57-6DDC/M.P.

at water 9/21

PUB. ROAD DIV. NO.	STATE	PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
7	CALIF.	5-11150	1957	5	27
DIST.	COUNTY	ROUTE	SEC.	POST MILE	DATE
VI	FRESNO	617	5	3	20

September 24, 1956
J. J. Young
 Engineer of Design
 License No. 5471

Approved: *Carl F. Link*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Approved: *[Signature]*
 DISTRICT ENGINEER
 DISTRICT VII DATE: 10/1/56

PUBLIC ROAD APPROACHES

NO.	STA.	SIDE	LEN.	WIDTH	SLABIFYING BITUMINOUS SURF. S.Y.	ROAD EXC. C.Y.	I.P.M. C.Y.	CEMENT DBLS	MIX. COM. S.Y.	MIN. AGG. TONS	PAV. ASP. TONS	PRIMER COAT TONS
1	590+00	E	100	32	---	74	105	70	367	55	2.75	0.30
2	60+00	L.T.	90	24	---	120	90	12.0	620	90	5.0	0.52
3	610+00	L.T.	90	24	---	120	90	12.0	620	90	5.0	0.52
4	637+20	L.T.	90	24	---	72	120	12.0	620	90	5.0	0.52
5	657+20	L.T.	90	24	---	72	120	12.0	620	90	5.0	0.52
6	657+30	L.T.	90	24	---	72	120	12.0	620	90	5.0	0.52
7	658+30	L.T.	90	24	---	72	120	12.0	620	90	5.0	0.52
8	666+00	E	100	32	185	15	12	7.0	367	55	2.75	0.30

PRIVATE ROAD APPROACHES

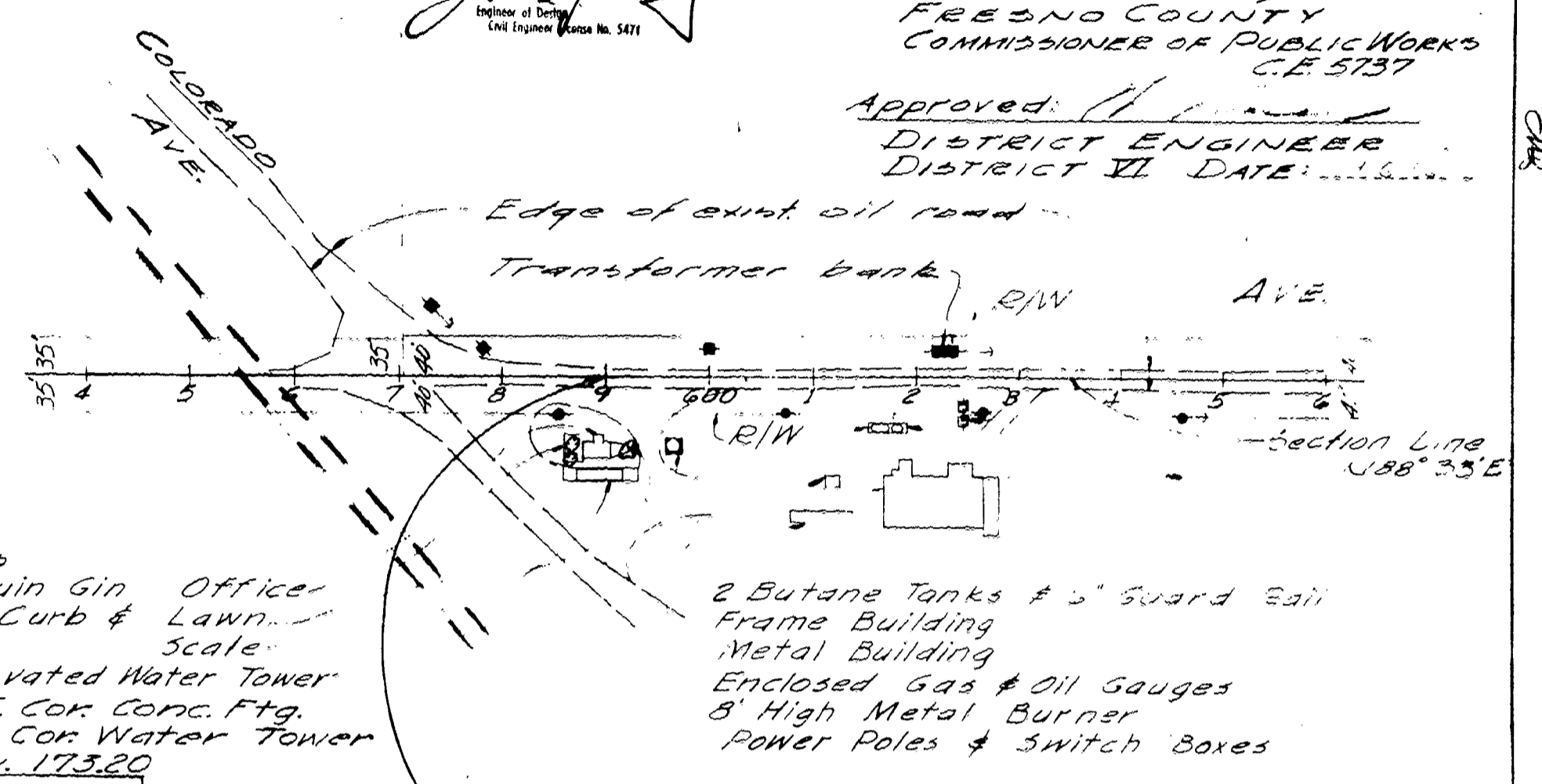
NO.	STA.	SIDE	LEN.	WIDTH	ROAD EXC. S.Y.	I.P.M. C.Y.	MIN. AGG. TONS	PAV. ASP. TONS
1	603+00	L.T.	35	20	13	12	10	7
2	611+20	L.T.	40	14	7	10	16	8
3	657+40	L.T.	40	20	15	12	10	7
4	657+40	L.T.	40	20	13	12	10	7
5	657+40	L.T.	40	20	7	12	10	7
6	657+40	L.T.	40	20	8	12	10	7
7	657+40	L.T.	40	20	11	12	10	7
8	657+40	L.T.	40	20	11	12	10	7
9	657+40	L.T.	40	20	7	12	10	7
10	657+40	L.T.	40	20	10	12	10	7
11	657+40	L.T.	40	20	11	12	10	7
12	657+40	L.T.	40	20	10	12	10	7
13	657+40	L.T.	40	20	10	12	10	7
14	657+40	L.T.	40	20	10	12	10	7
15	657+40	L.T.	40	20	10	12	10	7
16	657+40	L.T.	40	20	10	12	10	7
17	657+40	L.T.	40	20	10	12	10	7
18	657+40	L.T.	40	20	10	12	10	7
19	657+40	L.T.	40	20	10	12	10	7
20	657+40	L.T.	40	20	10	12	10	7
21	657+40	L.T.	40	20	10	12	10	7
22	657+40	L.T.	40	20	10	12	10	7
23	657+40	L.T.	40	20	10	12	10	7
24	657+40	L.T.	40	20	10	12	10	7
25	657+40	L.T.	40	20	10	12	10	7
26	657+40	L.T.	40	20	10	12	10	7
27	657+40	L.T.	40	20	10	12	10	7
28	657+40	L.T.	40	20	10	12	10	7
29	657+40	L.T.	40	20	10	12	10	7
30	657+40	L.T.	40	20	10	12	10	7
31	657+40	L.T.	40	20	10	12	10	7
32	657+40	L.T.	40	20	10	12	10	7
33	657+40	L.T.	40	20	10	12	10	7
34	657+40	L.T.	40	20	10	12	10	7
35	657+40	L.T.	40	20	10	12	10	7
36	657+40	L.T.	40	20	10	12	10	7
37	657+40	L.T.	40	20	10	12	10	7
38	657+40	L.T.	40	20	10	12	10	7
39	657+40	L.T.	40	20	10	12	10	7
40	657+40	L.T.	40	20	10	12	10	7

Scarifying Bituminous Surface

NO.	STA.	STA.	S.Y.
1	606+00	609+00	620
2	610+00	631+00	2190
3	626+00	671+00	8150
4	684+00	690+00	780
5	684+00	765+00	1920
6	778+00	784+00	5500
7	1023+00	1061+00	530
8	12 APPROACH	123	

NEW STRUCTURES IN R/W

NO.	STATION	STRUCT EXCAV.	R.C.P. 18" 24" 30"	CLASS 1" 2" 3"	REIN. STEEL	STRUCT. BACKFILL	ELEVATION N/S S/S
1	647+91	40	14	---	---	24	1780 1780
2	690+30	34	70	---	---	25	1788 1788
3	716+80	40	70	---	---	21	1749 1749
4	725+00	33	---	---	---	23	1780 1780
5	725+00	202+00	---	---	---	---	---
6	751+75	751+52	---	---	---	---	---
7	765+00	766+00	---	---	---	---	---
8	785+00	785	115	2.5" 3.0"	30	1789 1789	
9	790+00	790	115	2.5" 3.0"	30	1798 1798	
10	800+50	800	115	2.5" 3.0"	30	1800 1800	
11	847+75	847	85	3.0" 3.5"	30	1785 1785	
12	855+00	855	84	3.0" 3.5"	15	1815 1815	
13	907+00	907	80	3.0" 3.5"	15	1810 1810	
14	1005+00	1005	80	3.0" 3.5"	14	1785 1785	



Producer's
 San Joaquin Gin Office
 6' Curb & Lawn
 Scale
 Elevated Water Tower
 TBM #1 N.E. Cor. Conc. Ftg.
 N.E. Cor. Water Tower
 Elev. 173.20

2 Butane Tanks & 5' Guard Rail
 Frame Building
 Metal Building
 Enclosed Gas & Oil Gauges
 8' High Metal Burner
 Power Poles & Switch Boxes

BEGINNING OF PROJECT
STATION 599+00

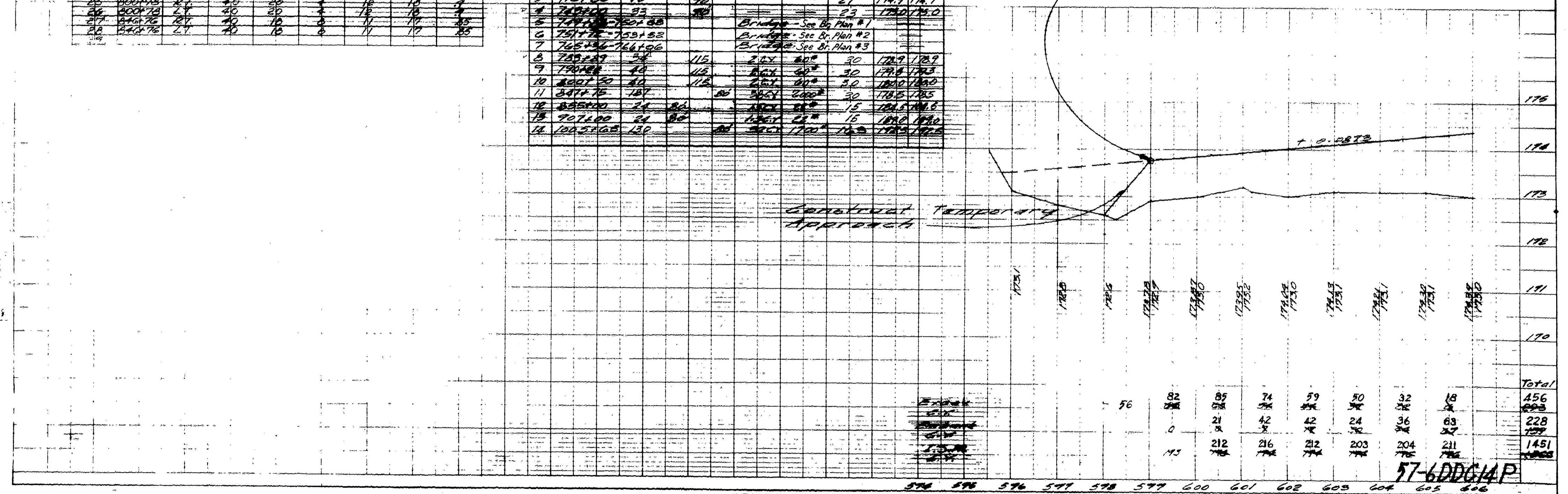


PLATE 1 - PLAN - PROFILE C.P.R.R. & C.

REDUCED PLANS
 USE SCALE BELOW
 1" = 40' HORIZONTAL PLANS

1-27

3

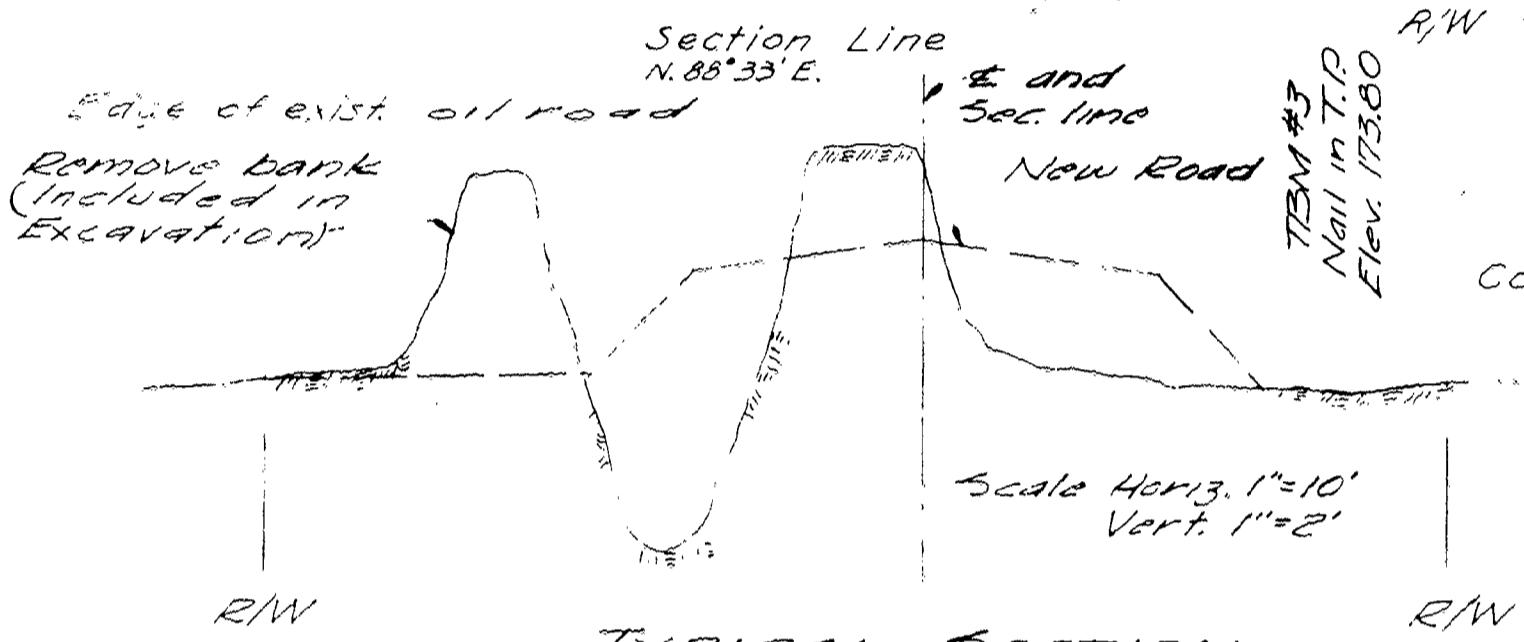
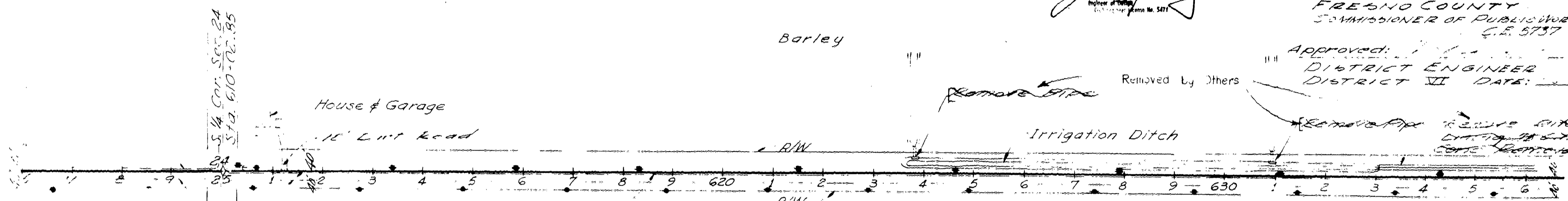
ROAD NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	5-3176	1957	4	27
COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS	
VI FRESNO	817	5	4	20	

Sec. 24, T. 15 S., R. 16 E., M.D.B. & M.

September 24, 1956
J. J. Young
 Engineer of Public Works
 License No. 5171

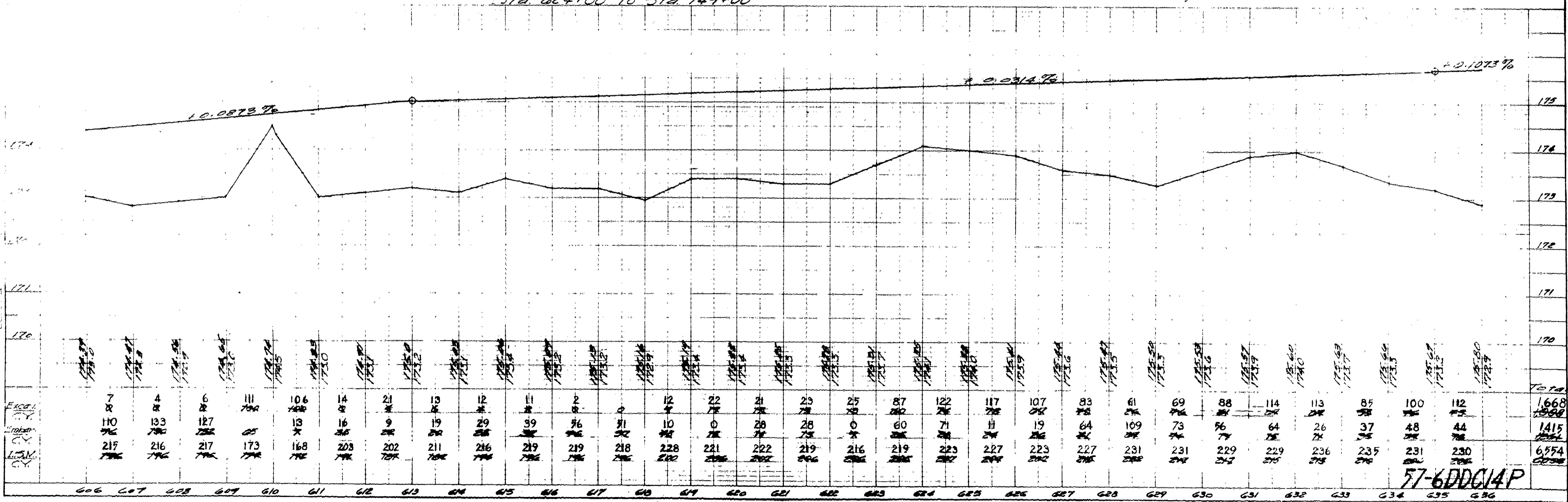
Approved: *Carl L. Fair*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Approved: _____
 DISTRICT ENGINEER
 DISTRICT II DATE: _____



Sec. 25, T. 15 S., R. 16 E., M.D.B. & M.

Note:
 All salvageable Irrigation Facilities
 to be removed by others.



57-6DDC14P

REDUCED PLANS
 USE SCALE BELOW
 1" = 40' HORIZ. PLANS

1-27

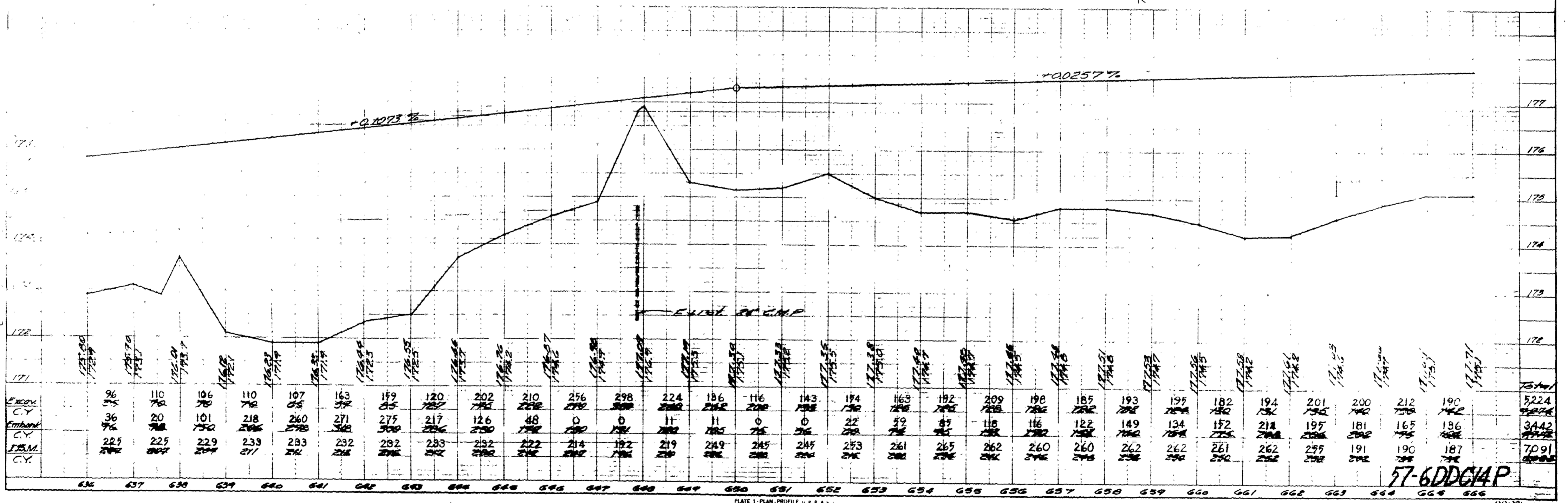
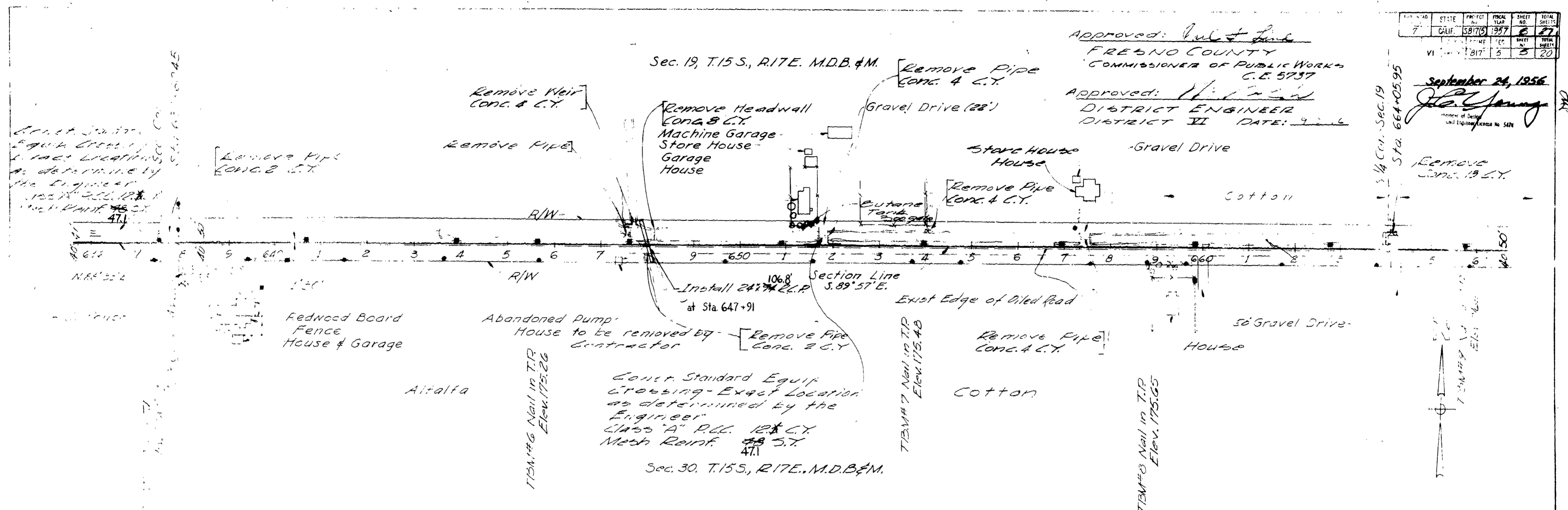
4

STATE	PROJECT	SHEET NO.	TOTAL SHEETS
CALIF.	SB 1716	27	27

Approved: *[Signature]*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Approved: *[Signature]*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9-26-56

September 24, 1956
[Signature]
 District Engineer



1-27

REDUCED PLANS
 USE SCALE BELOW
 1" = 40' HORIZ. PLANS

PLAN
 SCALE
 1" = 40'

PROFILE
 SCALE
 1" = 10'

5

PLATE 1 - PLAN - PROFILE U.P.A. & CLEARPRINT PAPER COMPANY, S.F. CAL.

RD 27-8

NO.	DATE	BY	TOTAL SHEETS
1	9/24/56	J.H.	27
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

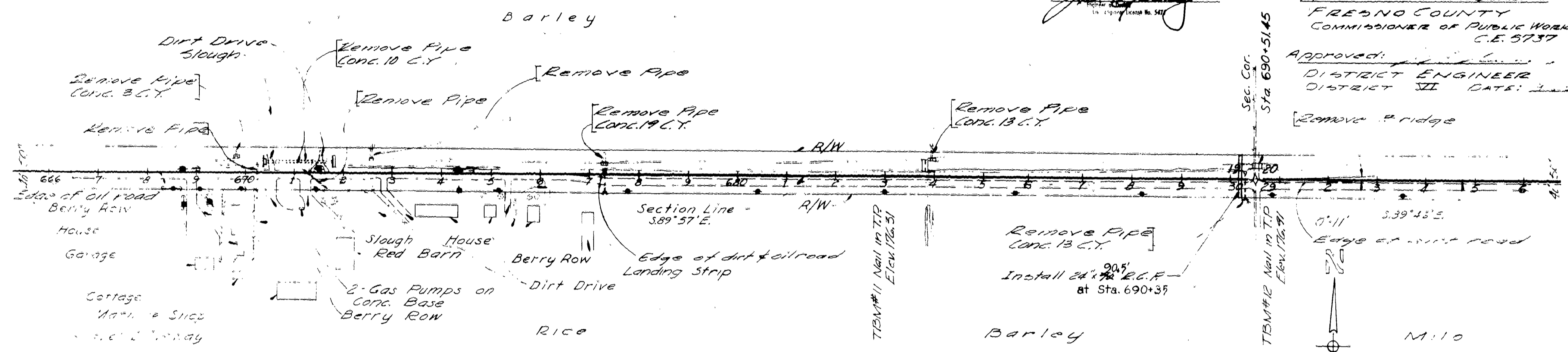
Sec. 19, T. 15S, R. 17E, M.D.B.#M.

September 24, 1956

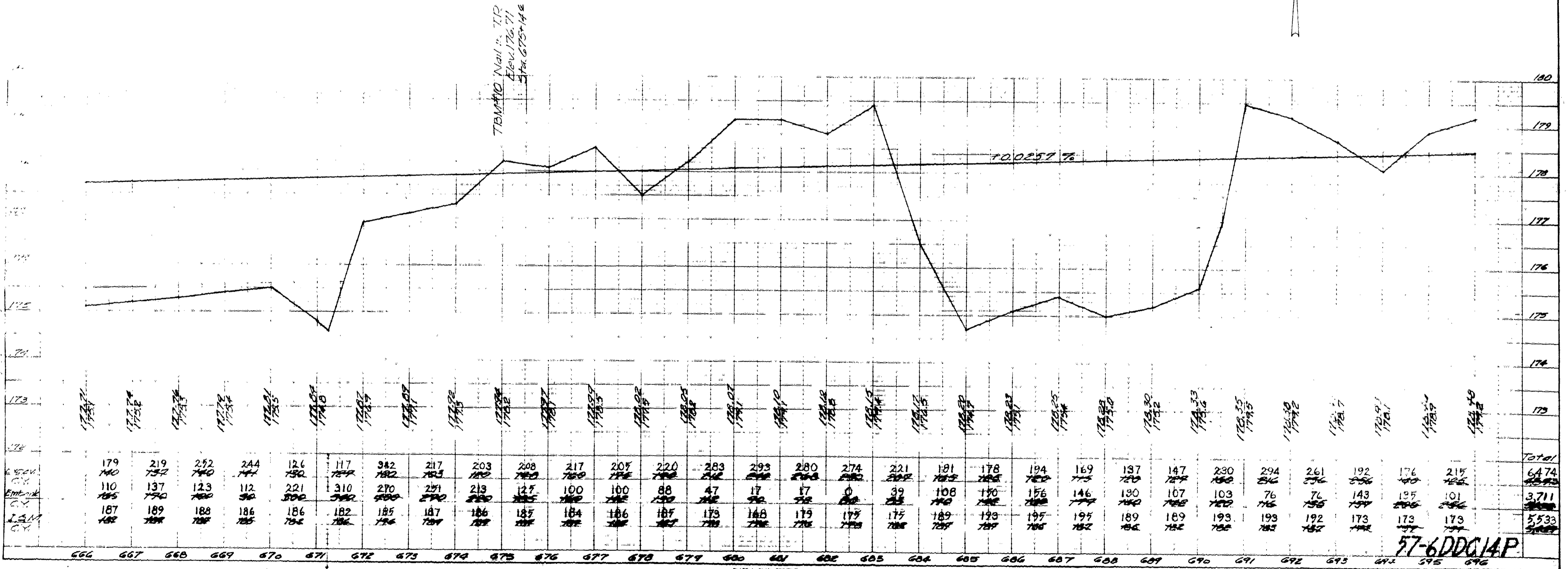
J.H. [Signature]
 License No. 547

Approved: *[Signature]*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Approved: *[Signature]*
 DISTRICT ENGINEER
 DISTRICT VII DATE: *[Signature]*



Sec. 30, T. 15S, R. 17E, M.D.B.#M.



57-6DDC14P

PLATE I PLAN PROFILE OF P.P. & E.
 CLEARPRINT PAPER COMPANY, S.F. CAL.
 No. 5000-1

REDUCED PLANS
 USE SCALE BELOW
 5" ON PLANS = 100'

1-27

6-27-6

STATE	PROJECT NO.	DATE
CALIF.	50775	1937
COUNTY	ROUTE	SEC.
FRESNO	817	5

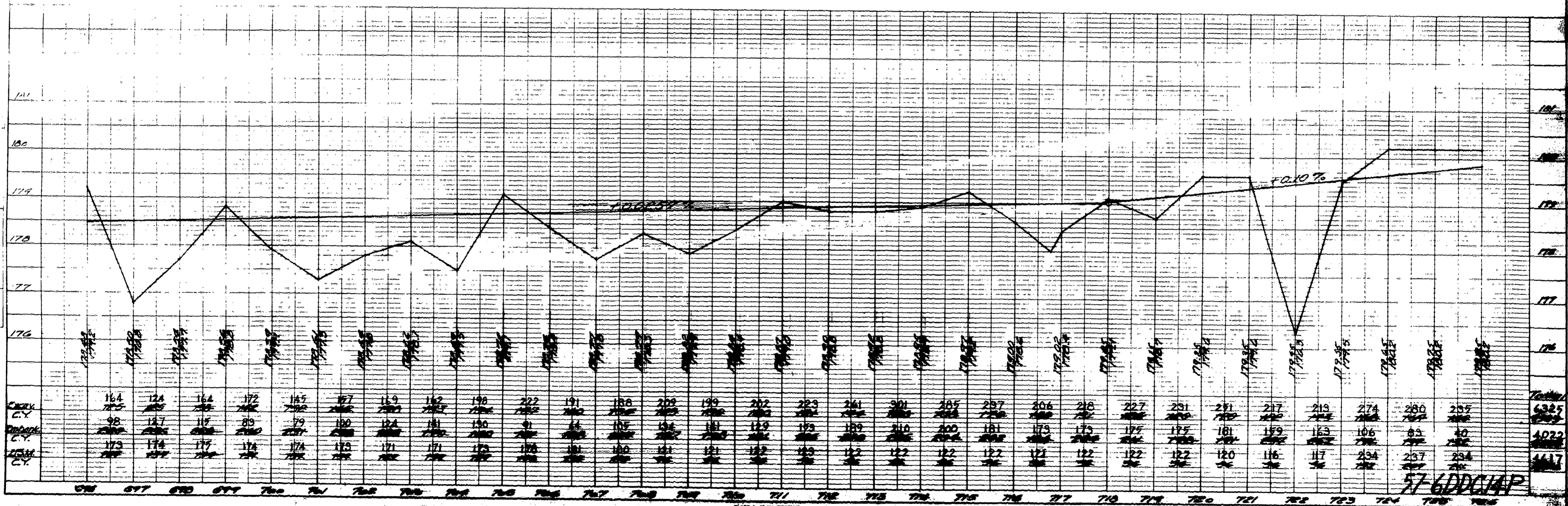
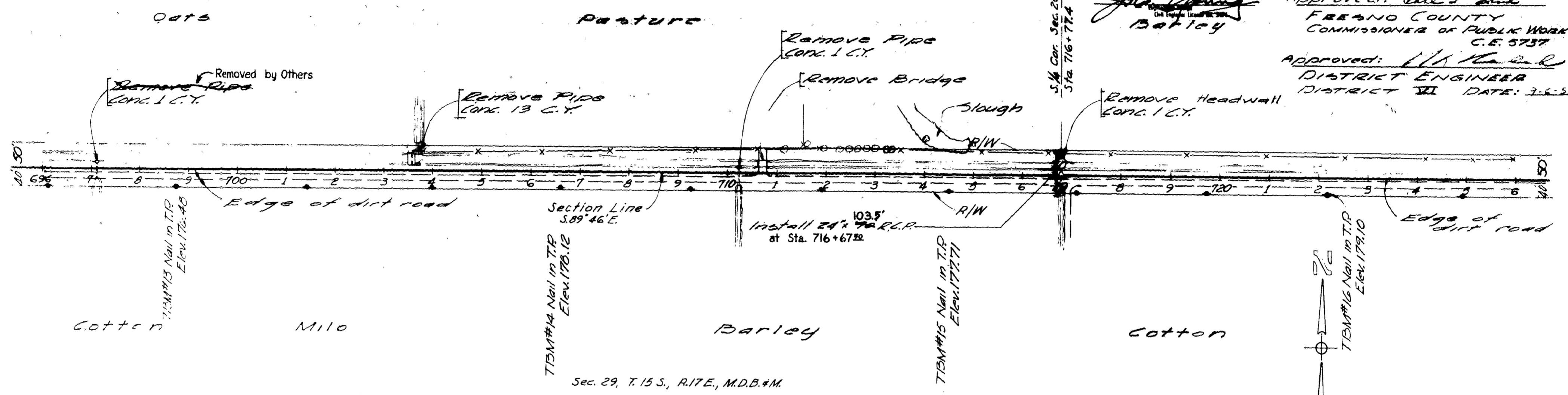
Sec. 20, T. 15 S., R. 17 E., M. D. B. & M.

September 24, 1936

John W. ...
1307109

Approved: *Cult Line*
FRESNO COUNTY
COMMISSIONER OF PUBLIC WORKS
C. E. 5737

Approved: *V. K. ...*
DISTRICT ENGINEER
DISTRICT VI DATE: 7-6-36



1-27

REDUCED PLANS
USE SCALE BELOW
3" ON ORIGINAL PLANS

STATE	PROJECT NO.	DATE	SCALE
CALIF.	7	SEP 27 1956	1" = 100'
COUNTY	ROUTE	SEC.	40'
FRESNO	277	3	20

September 24, 1956

[Signature]
 DISTRICT ENGINEER
 DISTRICT VII
 DATE: 9-26-56

Sec. 21, T.15S, R.17E, M.D.B.#M.

Sec. 20, T.15S, R.17E, M.D.B.#M.

Approved: *[Signature]*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Construct:
 New Fence - Sta 752+50 to Sta 756+00 - South Side
 Sta 751+50 to Sta 756+00 - North Side
 (0.155 Mi.)
 Install 8" x 16" downdrains
 Irrigation Canal
 Remove Conc. 15 C.Y.

Remove Conc. 3 C.Y.

FRESNO SLOUGH BYPASS
 Install 8" x 20" downdrains

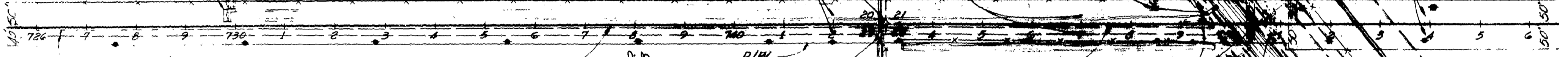
Sec. Cor.
 Sta. 743+04.20

Remove LODC 6 C.Y.

Remove Pipe

Install 8" x 12" downdrains
 R/W

Remove Conc. 3 C.Y.



Edge of dirt road

Section Line
 5.89° 46' E.

R/W

Edge of dirt road
 5.89° 46' E.

Electric Switch Box for Pump -
 Electric Motor & Pump - 40 H.P.
 10" Steel Discharge Pipe
 Install 8" x 32" downdrain
 Sec 28 T.15S, R.17E, M.D.B.#M.

102.1'
 Install 8" x 16" R.C.P.
 at Sta. 742+99.88

Barley

Main Bypass

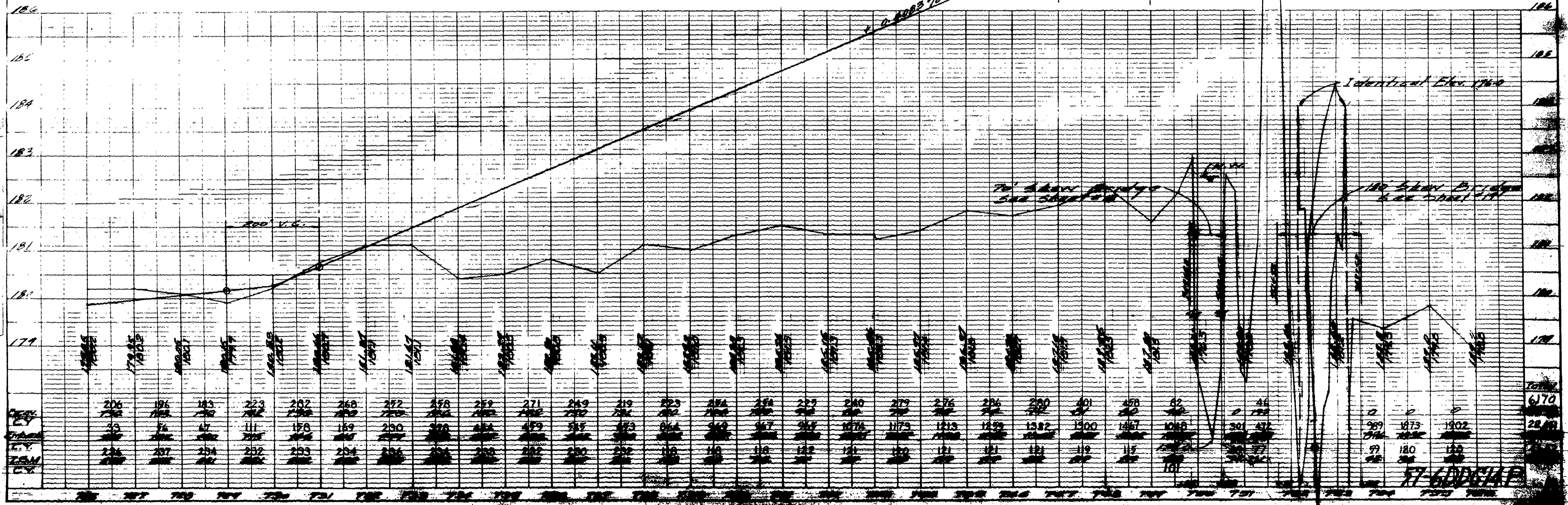
TBM#17 Nail in T.P.
 Elev. 179.72

TBM#18 Nail in T.P.
 Elev. 179.58

TBM#19 Nail in T.P.
 Elev. 183.05
 Sta. 745+70

TBM#20 Nail in R.P.
 Elev. 180.15
 Sta. 750+01.8

Sec. 29, T.15S, R.17E, M.D.B.#M.



REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

1 2 7

PUB. ROAD NO.	STATE	PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
7	CALIF.	58715	1957	27	27
COUNTY	ROUTE	SEC.	SECTION	DATE	
FRESNO	817	5	22		

Sec. 21, T. 15S, R. 17E, M.D.B. & M.

September 24, 1956

J. H. Young
 Civil Engineer License No. 5071

Approved: *Carl J. Line*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

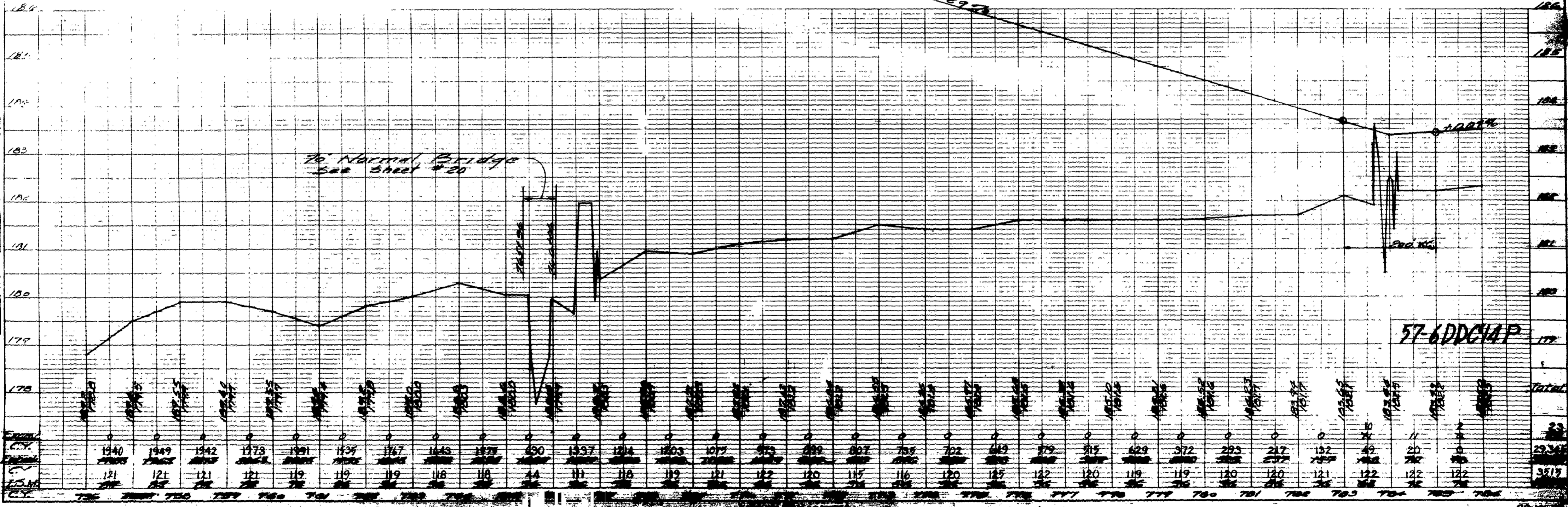
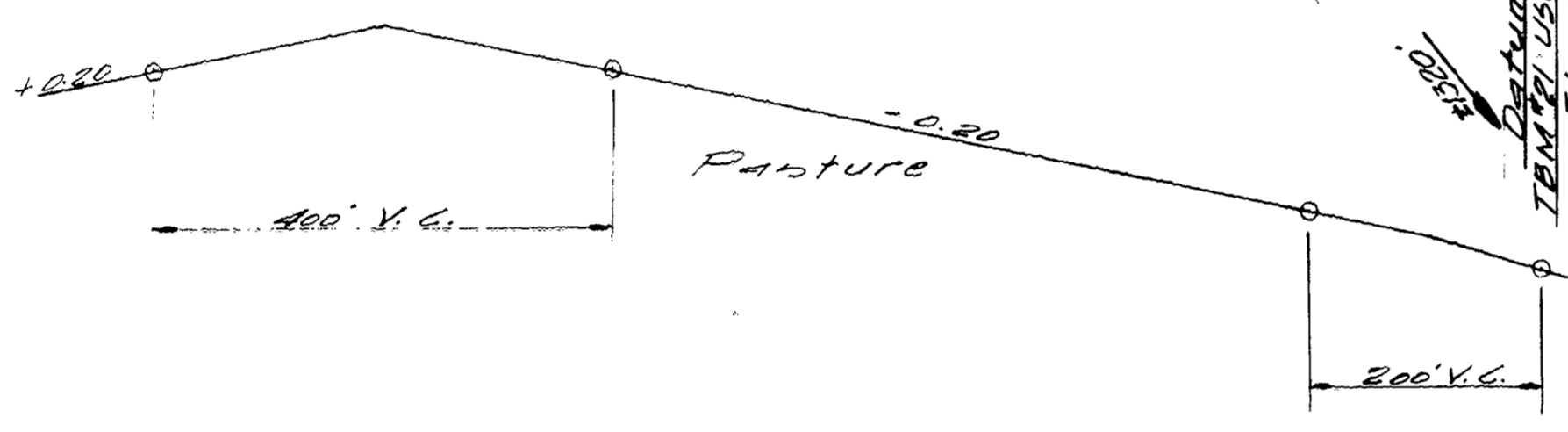
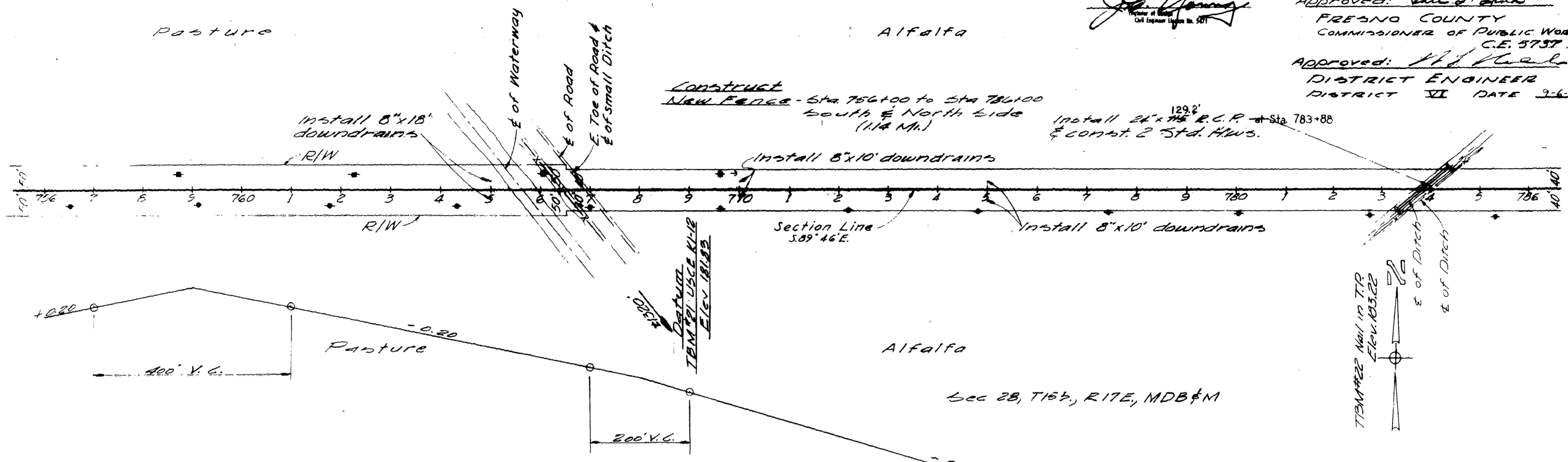
Approved: *W. H. ...*
 DISTRICT ENGINEER
 DISTRICT VII DATE 9-6-56

Pasture

Alfalfa

Construct
 New Fences - Sta 756+00 to Sta 786+00
 South & North Side
 (11A M.)

Install 24"x75" R.C.P. at Sta 783+88
 & const. 2 Std. H.W.S.



PLAN
 SURVEYED
 NOTE BOOK
 CHECKED
 DATE

PROFILE
 SURVEYED
 NOTE BOOK
 CHECKED
 DATE

9

1-27

REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

STATE	PROJECT NO.	FINAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.	58175	1957	27	30
COUNTY ROUTE	SEC.	POST MILE		
VI FRESNO 817	5	7.20		

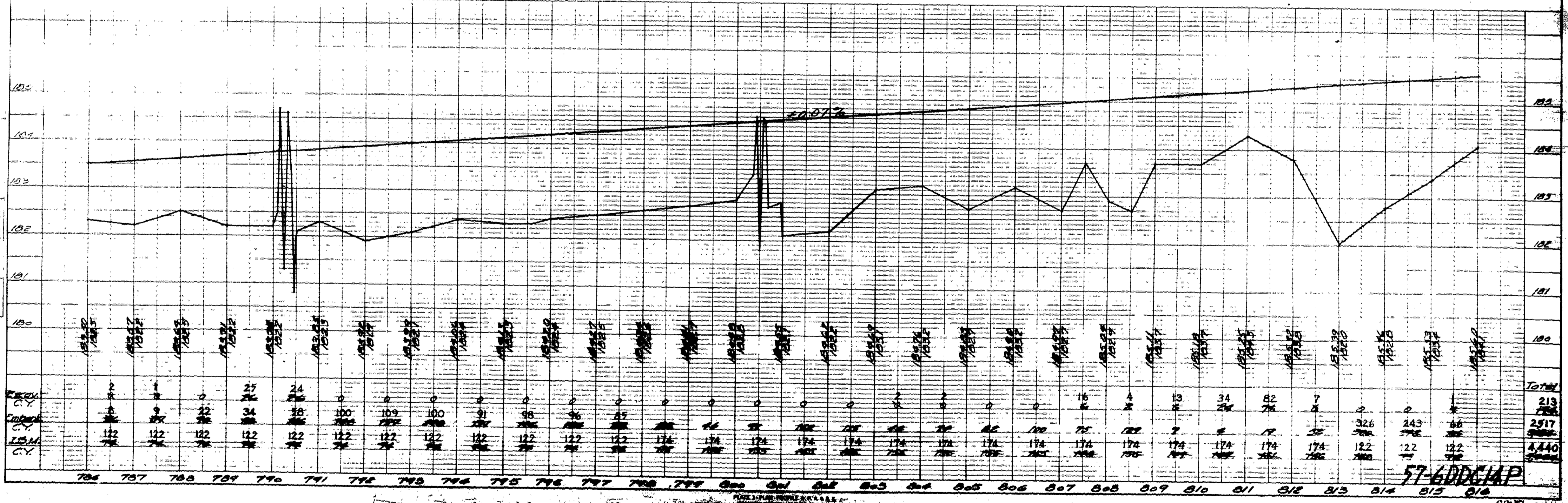
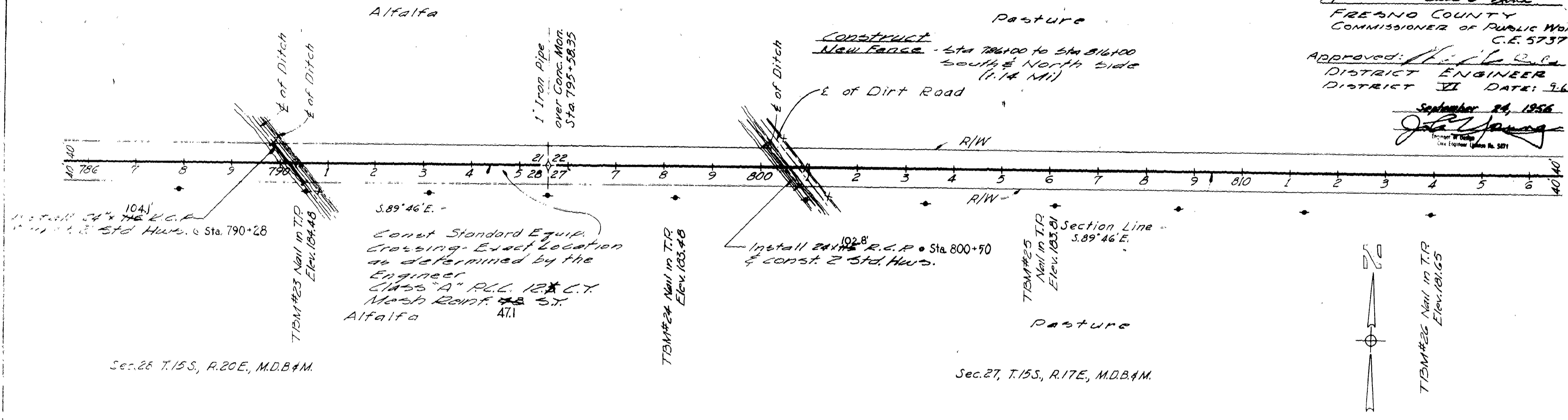
Sec. 21, T. 15 S., R. 17 E., M.D.B. & M.

Sec. 22, T. 15 S., R. 17 E., M.D.B. & M.

Approved: *Carl F. Linn*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Approved: *W. L. R. Co.*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9.6.56

September 24, 1956
John J. Young
 District Engineer
 License No. 5871



REDUCED PLANS
 USE SCALE BELOW
 1" = 100'
 3" ON ORIGINAL PLANS

1-27

10

PL. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	CALIF.	60781	1956	18	20
DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
VI	FRESNO	817	5	18	20

Sec. 23, T.15S., R.17E., M.D.B.&M.

Pasture

September 24, 1956
John G. Gann
 Civil Engineer License No. 507

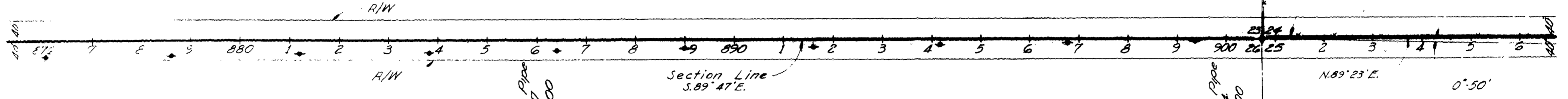
Approved: *Carl F. Link*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5757

Approved: *W. H. ...*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9-6-56

CONSTRUCT
 New Fence - Sta 876100 to 906100 - South Side (1.14 Mi.) See Special Provisions
 Sta 876100 to 906100 - North Side

Fence on 4 - Sta 900+73.88 to 927+10.85

Section Corner
 Sta. 900+73.88

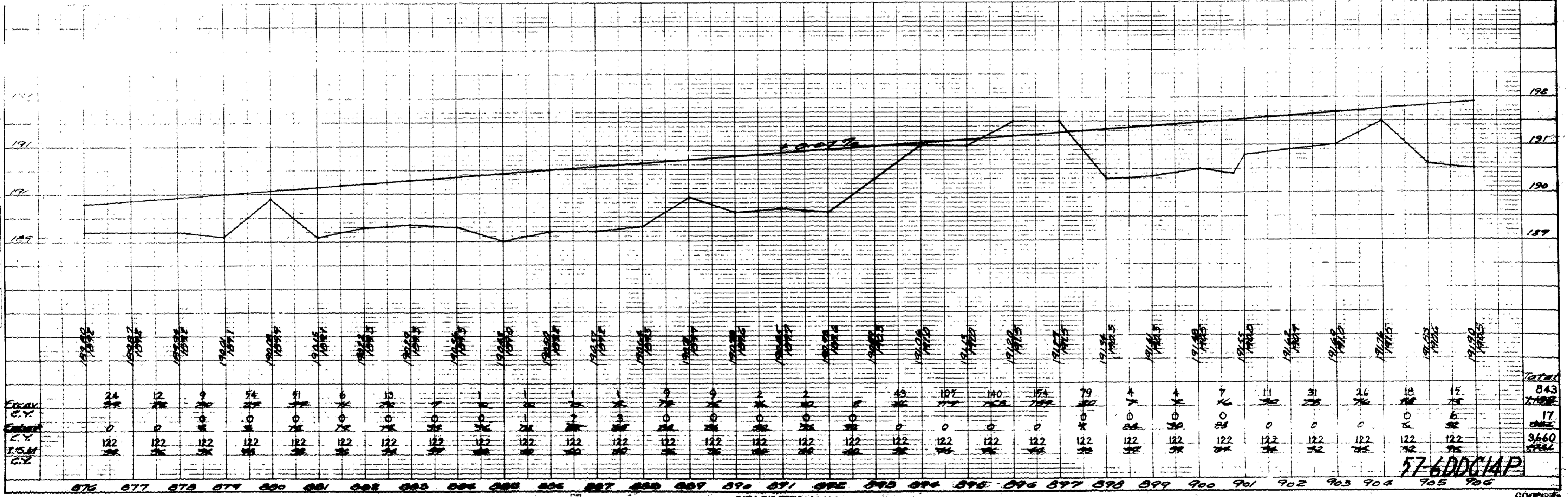
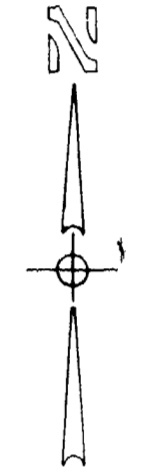


TBM #55 Top of Iron Pipe
 60' RT ELEV. 18917
 Sta. 886+00

TBM #36 Top of Iron Pipe
 60' RT ELEV. 19034
 Sta. 900+00

Sec. 26, T.15S., R.17E., M.D.B.&M.

Pasture



13

57-600014P

1-27

REDUCED PLANS
 USE SCALE BELOW
 1" = 100'

PUB. ROAD DIST. NO.	STATE	PROJECT NO.	ROAD TRAP	SHEET NO.	TOTAL SHEETS
7	CALIF.	50770	1957	20	20
DIST.	COUNTY	ROUTE	SEC.	POST MILE	
VI	FRESNO	217	3	20	

Sec. 24, T.15S, R.17E, M.D.B. & M.

Pasture

September 24, 1956

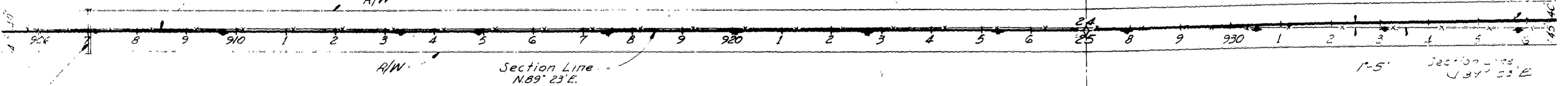
J. J. [Signature]
 Division of Design
 Civil Engineer License No. 5471

Approved: *[Signature]*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737
 Approved: *[Signature]*
 DISTRICT ENGINEER
 DISTRICT VII DATE 9-26-56

CONSTRUCTION
 NEW FENCE - Sta 796+00 to Sta 926+00 - North & South Side (1.14 Mi.) See Special Provisions

Existing Fence on E. Sta 900+73.88 to 927+10.85
 R/W

1/2 of proposed Road N.88°18'E.



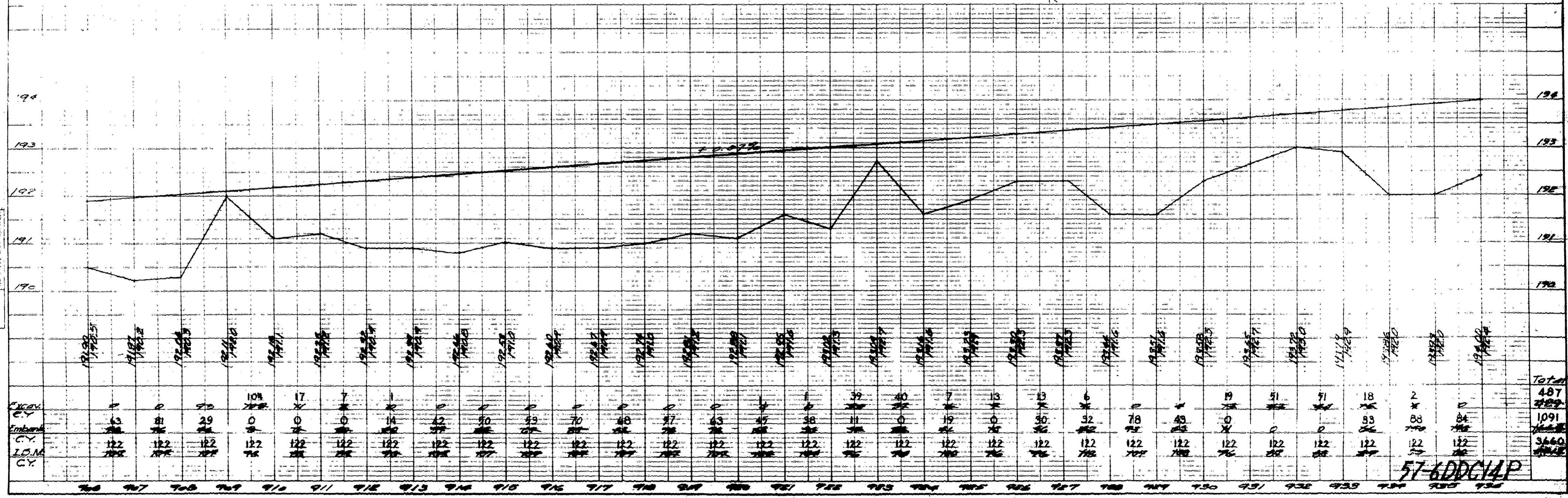
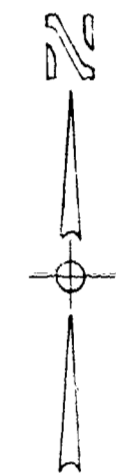
51-11.75
 Install 18" ⁴⁰⁶ E.C.P. @ Sta. 907+01 & const. 2 std. PWS.

TSM #37 Top of Iron Pipe
 60.81 Elev. 190.85
 Sta 915+00

TSM #38 Top of Iron Pipe
 50.81 Elev. 192.27
 Sta 927+10.85

Sec. 25, T.15S, R.17E, M.D.B. & M.

Pasture



57-6DDG14P

1-27

REDUCED PLANS
 USE SCALE BELOW
 1" = 50' ON ORIGINAL PLANS

PROJECT NO.	STATE	PROJECT	DATE
7	CALIF.	57/11	1956
EST. COUNTY	ROUTE	SEC.	
VI FRESNO	67	3	

Sec. 24, T.15S, R.17E, M.D.B.&M.

Sec. 19, T.15S, R.18E, M.D.B.&M.

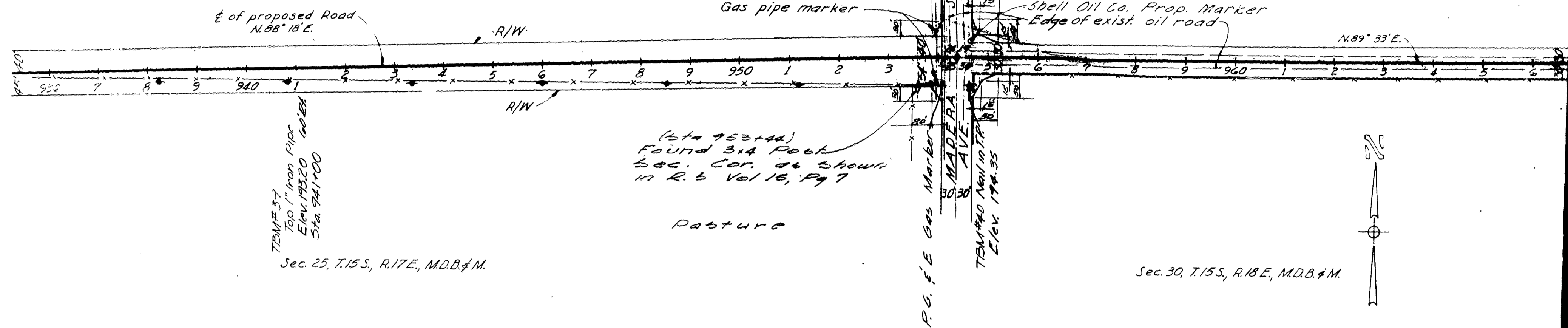
Pasture

Approved: *Carl F. Lee*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 573

September 28, 1956
J. J. Young
 District Engineer
 License No. 5472

Approved: *J. J. Young*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9/28/56

CONSTRUCT
 New Fence - Sta 936+00 to 954+00 - North & South (0.70 Mi.) See Special Provisions

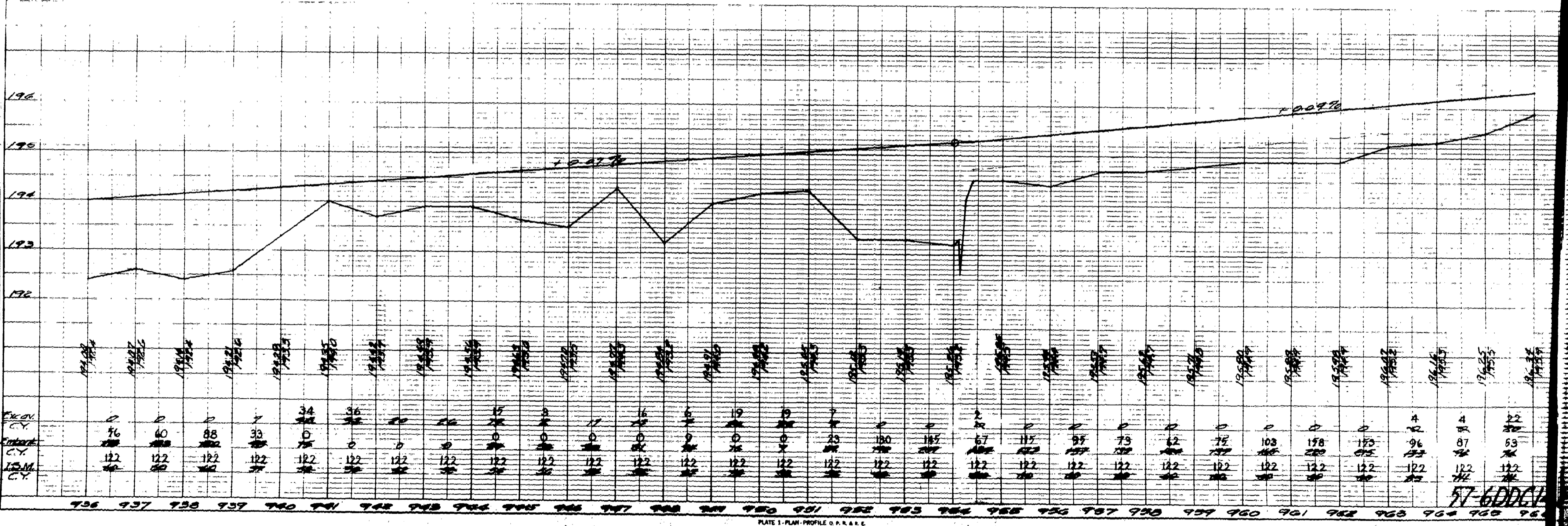


100' 1" Iron Pipe
 Elev. 193.20
 Sta. 941+00

(Sta 953+44)
 Found 3/4" Rock
 Sec. Cor. of show
 in R. & Vol 16, Pg 7

Sec. 25, T.15S, R.17E, M.D.B.&M.

Sec. 30, T.15S, R.18E, M.D.B.&M.



PLAN SHEET NO. 57/11-1
 NOTE BOOK NO. 57/11-1
 DATE 9/28/56
 PROFILE SHEET NO. 57/11-2
 NOTE BOOK NO. 57/11-2
 DATE 9/28/56

15

57-6000-1

1-27

REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

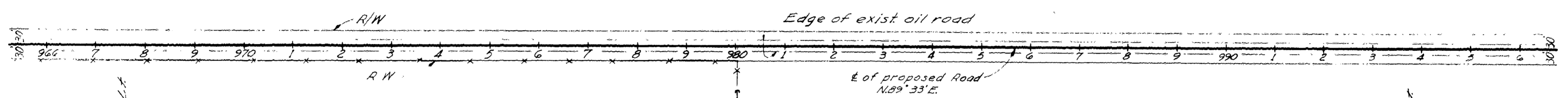
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.	58773	1957	76	278
COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
FRESNO	817	3	76	278

Sec. 19, T. 15S, R. 18E, M.D.B. & M.

Pasture

September 29, 1956
J. G. Young
 Engineer of Design
 Civil Engineer (License No. 5471)

Approved: *Carl F. ...*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737
 Approved: *W. ...*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9-26-56

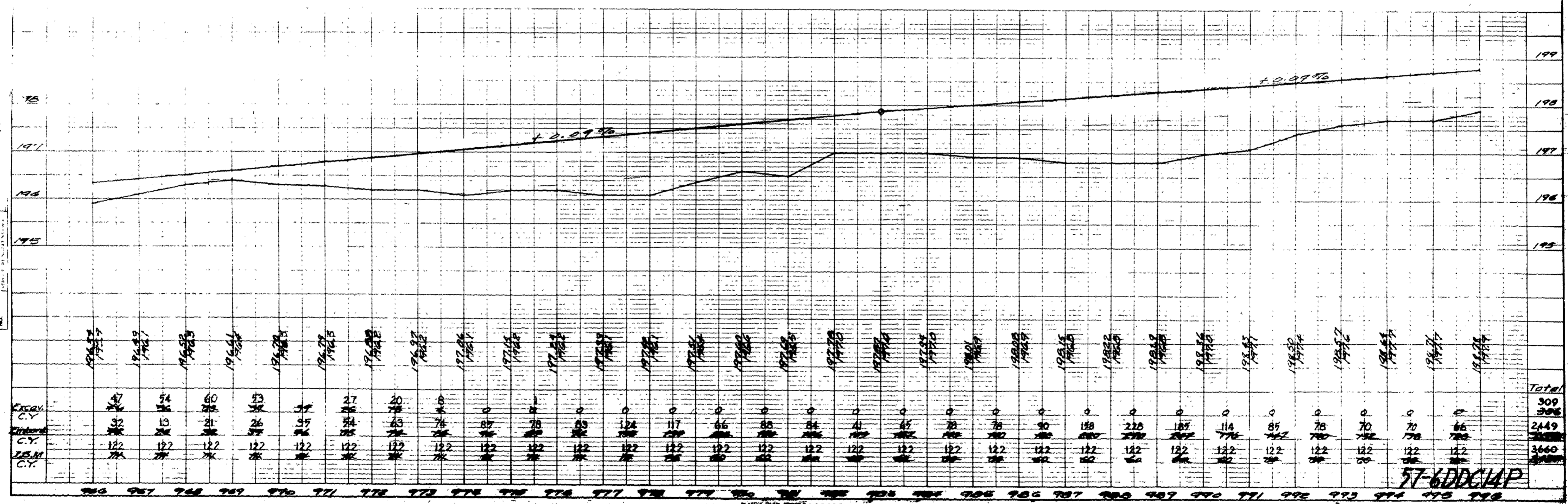


T.B.M. # 41 50' Lt.
 TOP 1 1/2" DIA. PIPE
 STA 968+00
 ELEV. 196.85

T.B.M. # 42
 NAIL IN P.P.
 ELEV. 196.70

T.B.M. # 43 50' Lt.
 TOP 1 1/2" DIA. PIPE
 STA 994+00
 ELEV. 197.65

Sec. 30, T. 15S, R. 18E, M.D.B. & M.



57-6DDC1AP

16

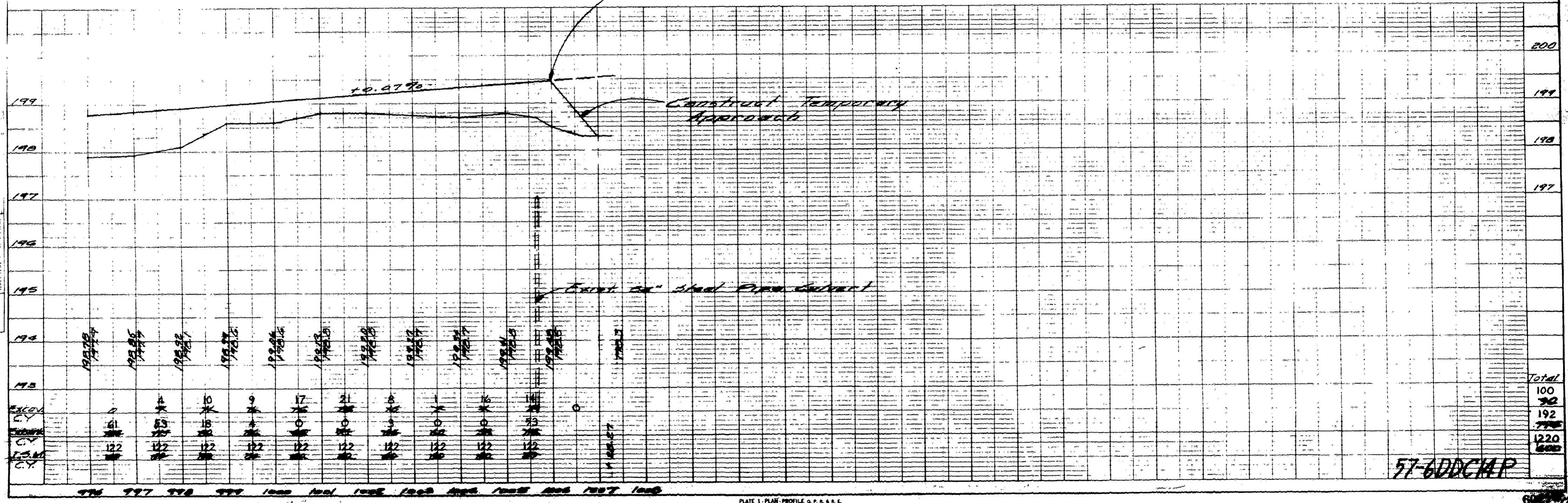
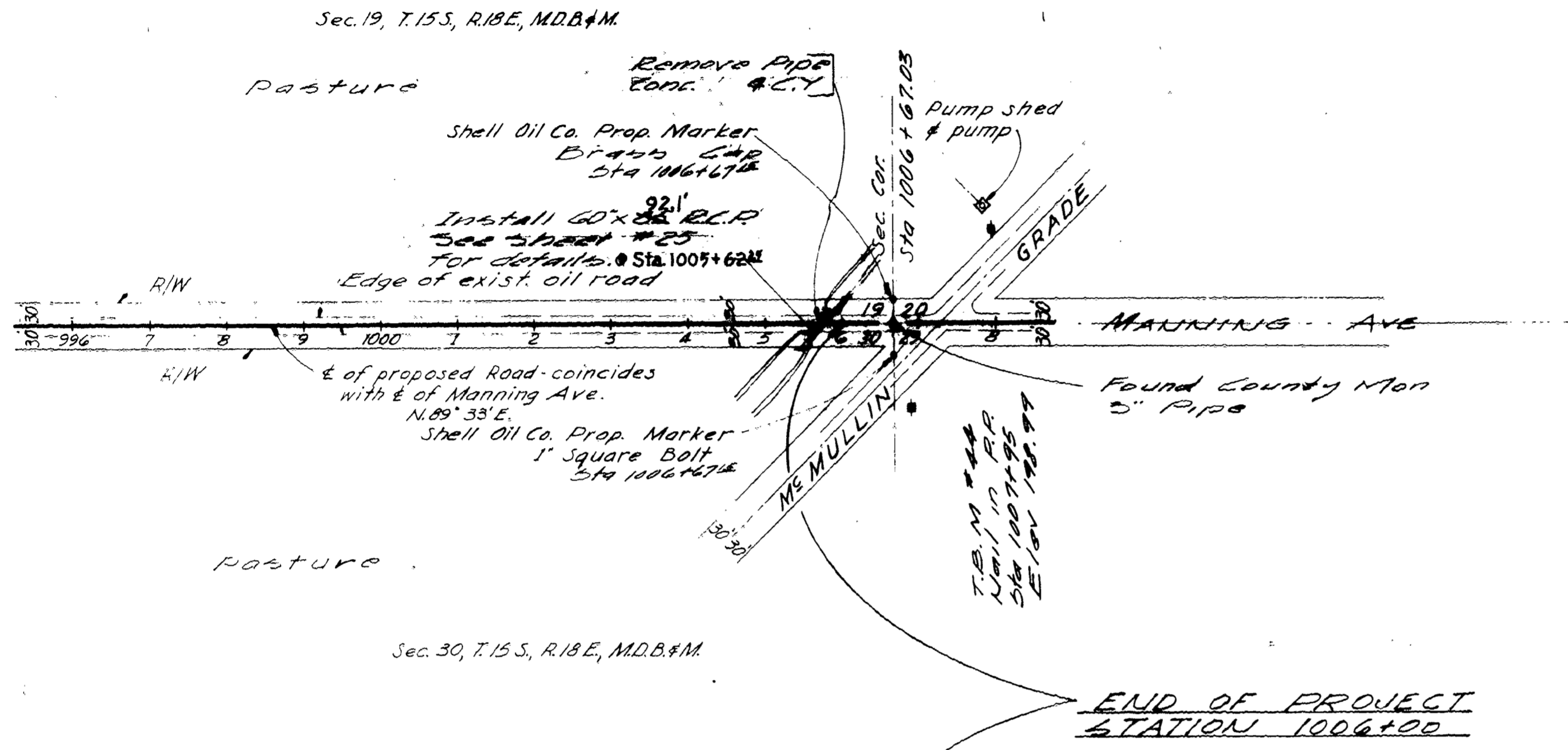
1-27

REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

PUB. ROAD DIST. NO.	STATE	PROJECT NO.	TRUCK	SHEET NO.	TOTAL SHEETS
7	CALIF.	601750	1957	27	27
DIST. COUNTY ROUTE SEC.					
VI FRESNO 817 5 17 20					

September 24, 1956
John Young
 Engineer of District
 Civil Engineer License No. 5471

Approved: *Carl F. Link*
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C-55737
 Approved: *W. H. ...*
 DISTRICT ENGINEER
 DISTRICT VI DATE: 9.6.56



57-6DDC/MAP

PLATE 1 - PLAN - PROFILE OF P.R.A.E.
 CLEARING WORK COMPANY, S. F. CALIF.

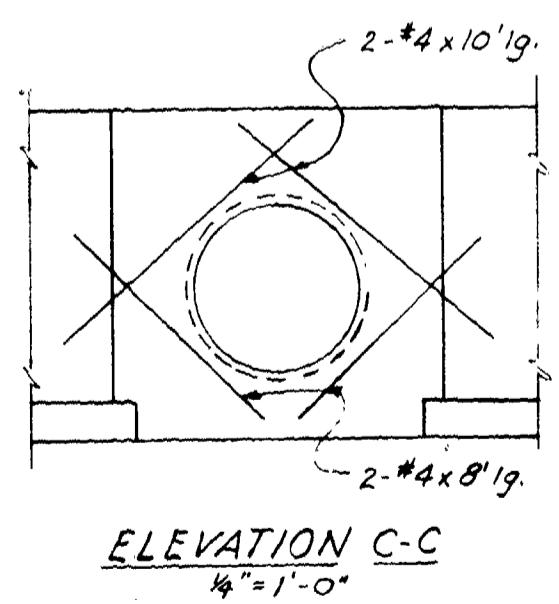
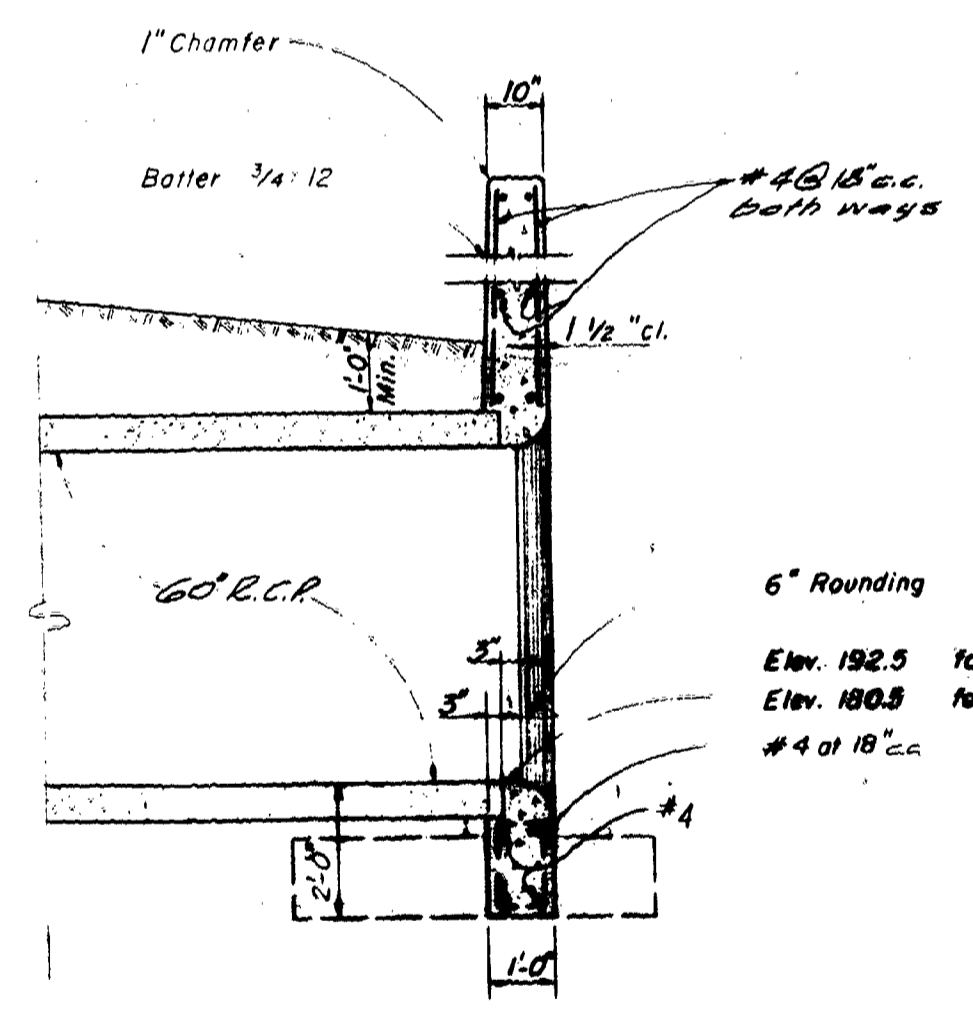
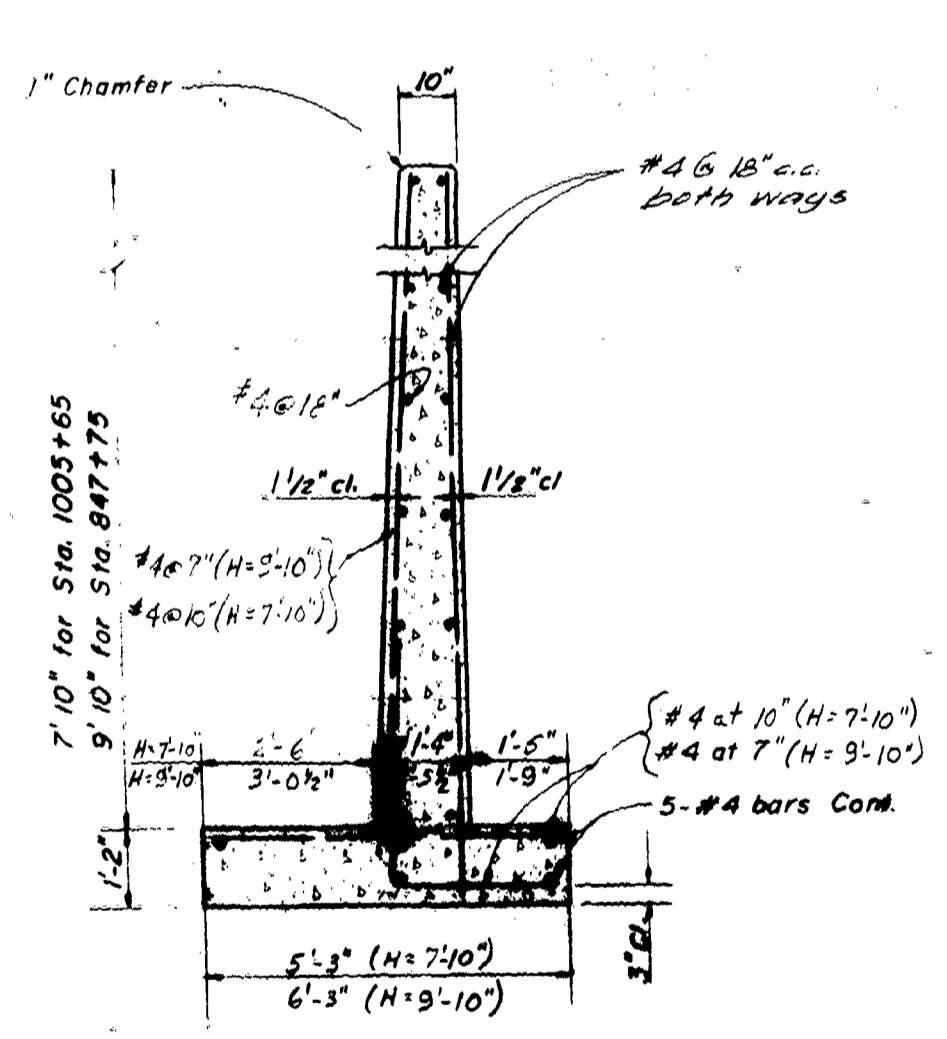
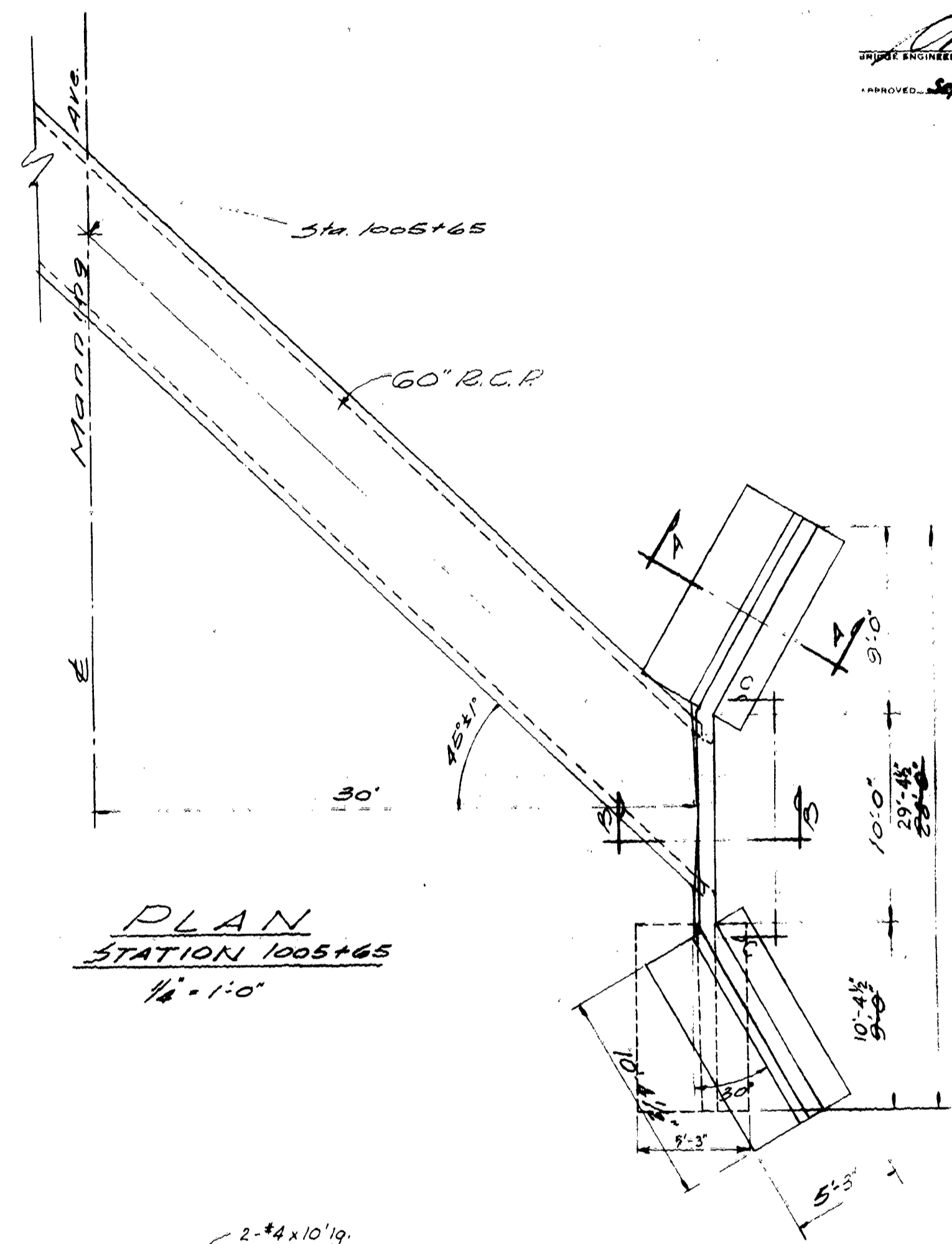
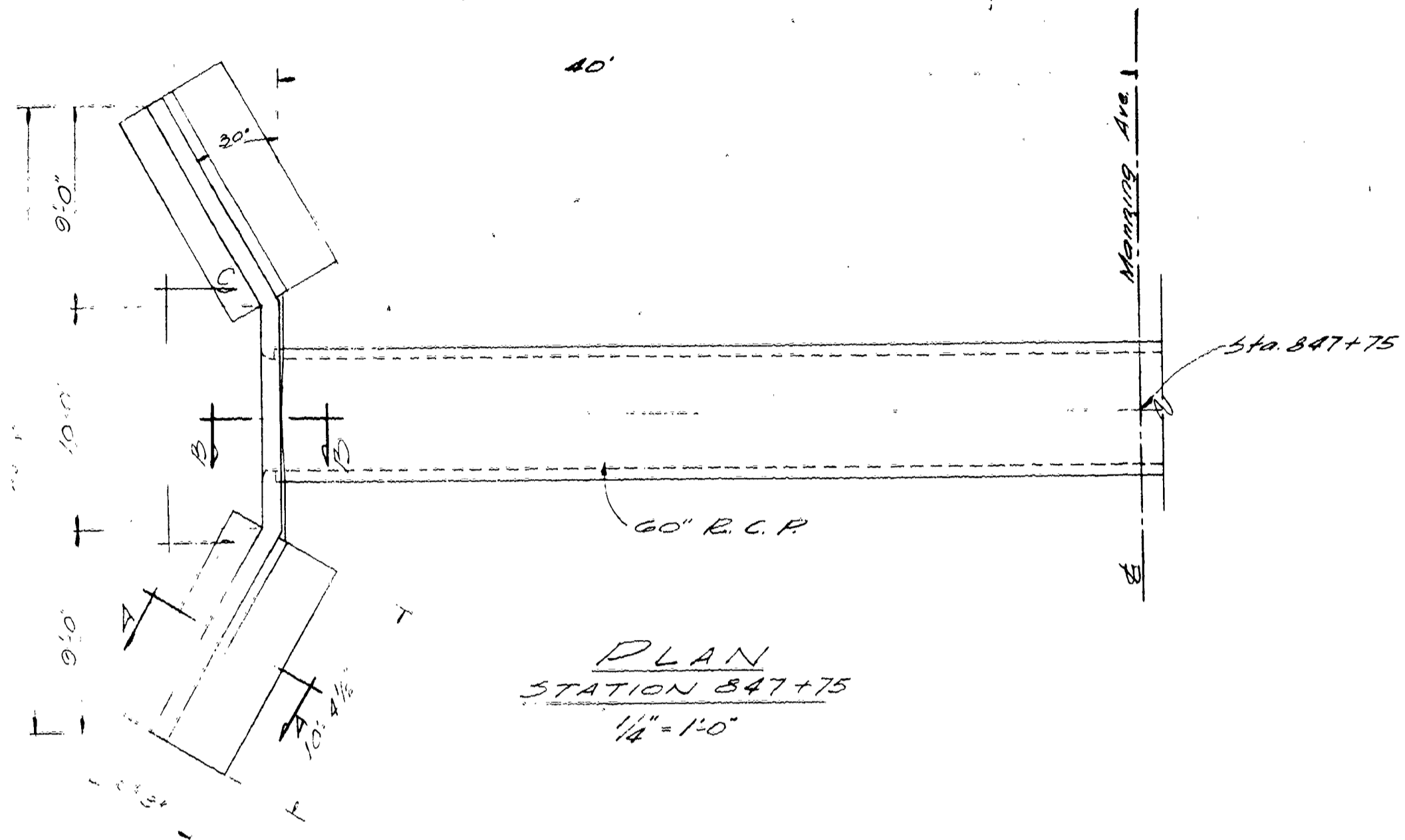
REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

1-27

Proj. No.	7	State	Calif.	Sheet	17	Total	20
Dist.	VI	County	Fresno	Div.	17	Sec.	18
Project	MANNING AVE. CURB & GUTTER						

Carl F. Lusk
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

Richard
 CIVIL ENGINEER - LICENSE NO. 888
 APPROVED: September 24, 1905

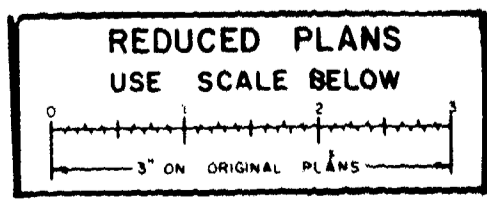


57-6DDC14P
 COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 MANNING AVE.
 CURB & GUTTER
 DETAILS

Structural Details
 Checked by C. J. ...
 Reviewed by ...
 Approved by ...

18

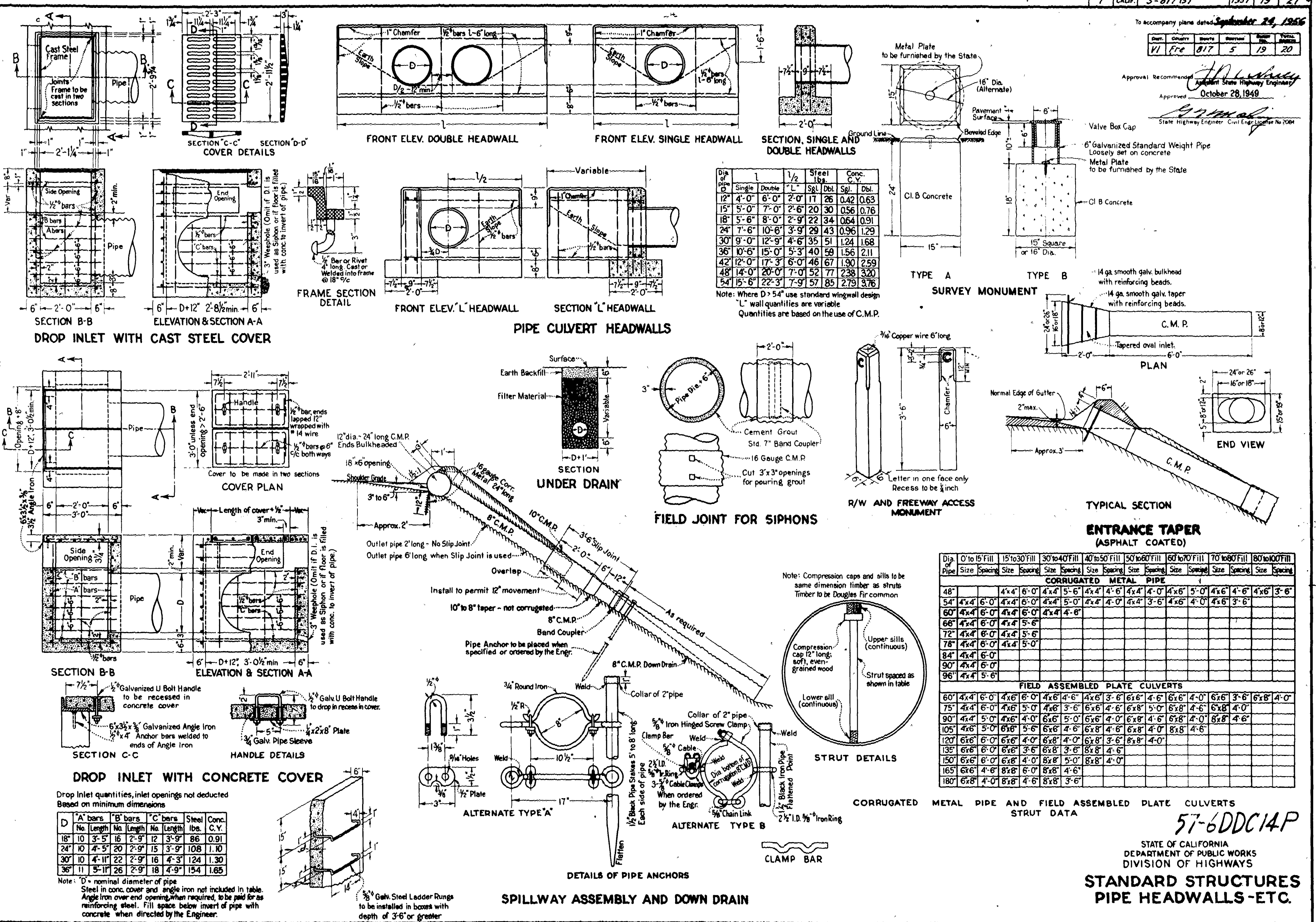
1-27



To accompany plans dated September 24, 1946

Dist.	County	Route	Mileage	Sheet No.	Total Sheets
VI	Fresno	817	5	19	20

Approved: Recommended by *J. H. ...* State Highway Engineer
 Approved: *J. H. ...* October 28, 1949
 State Highway Engineer, Civil Engineer No. 2084



Dia. Pipe	Single	Double	Steel Lbs.	Conc. C.Y.
12"	4'-0"	6'-0"	2-07	17 26
15"	5'-0"	7'-0"	2-6	20 30
18"	5'-6"	8'-0"	2-9	22 34
24"	7'-6"	10'-6"	3-9	29 43
30"	9'-0"	12'-9"	4-6	35 51
36"	10'-6"	15'-0"	5-3	40 59
42"	12'-0"	17'-3"	6-0	46 67
48"	14'-0"	20'-0"	7-0	52 77
54"	15'-6"	22'-3"	7-9	57 85

Dia. Pipe	0' to 15' Fill		15' to 30' Fill		30' to 40' Fill		40' to 50' Fill		50' to 60' Fill		60' to 70' Fill		70' to 80' Fill		80' to 100' Fill	
	Size	Spacing	Size	Spacing	Size	Spacing	Size	Spacing	Size	Spacing	Size	Spacing	Size	Spacing	Size	Spacing
48"	4x4	6'-0"	4x4	6'-0"	4x4	5'-6"	4x4	4'-6"	4x4	4'-0"	4x6	5'-0"	4x6	4'-6"	4x6	3'-6"
54"	4x4	6'-0"	4x4	6'-0"	4x4	5'-0"	4x4	4'-0"	4x4	3'-6"	4x6	4'-0"	4x6	3'-6"		
60"	4x4	6'-0"	4x4	6'-0"	4x4	4'-6"	4x4	4'-0"								
66"	4x4	6'-0"	4x4	6'-0"	4x4	5'-6"										
72"	4x4	6'-0"	4x4	6'-0"	4x4	5'-6"										
78"	4x4	6'-0"	4x4	6'-0"	4x4	5'-0"										
84"	4x4	6'-0"														
90"	4x4	6'-0"														
96"	4x4	6'-0"														

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

D	A' bars	B' bars	C' bars	Steel lbs.	Conc. C.Y.			
18"	10	3-5"	16	2-9"	12	3-9"	86	0.01
24"	10	4-5"	20	2-9"	15	3-9"	108	1.10
30"	10	4-11"	22	2-9"	16	4-3"	124	1.30
36"	11	5-11"	26	2-9"	18	4-9"	154	1.65

Note: D = nominal diameter of pipe
 Steel in conc. cover and angle iron not included in table.
 Angle iron cover end opening, when required, to be paid for as reinforcing steel. Fill space below invert of pipe with concrete when directed by the Engineer.

57-6DDC14P
 STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS
**STANDARD STRUCTURES
 PIPE HEADWALLS-ETC.**

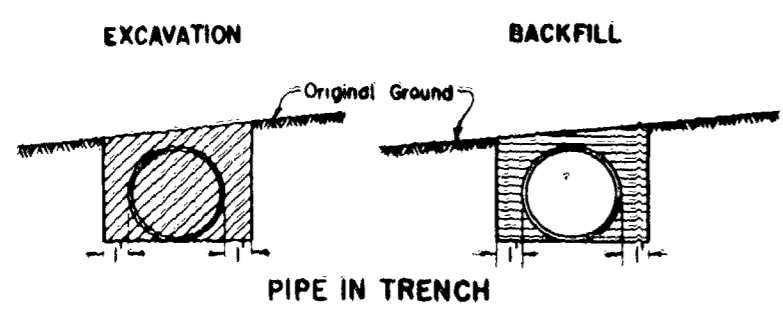
19

1-27

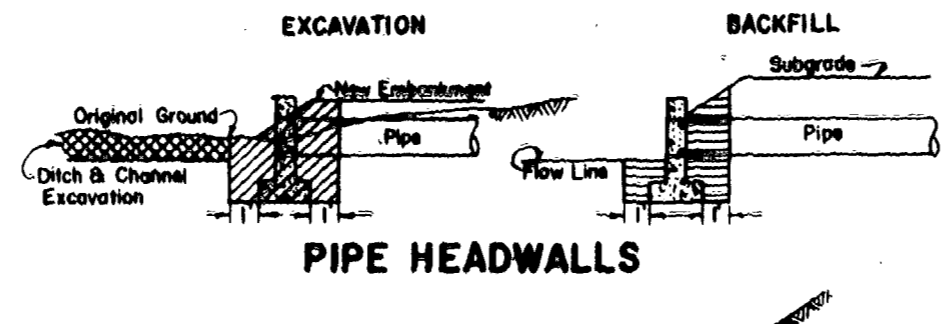
REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

Dist.	County	Route	Mileage	Sheet	Total
VI	Fres	817	5	20	20

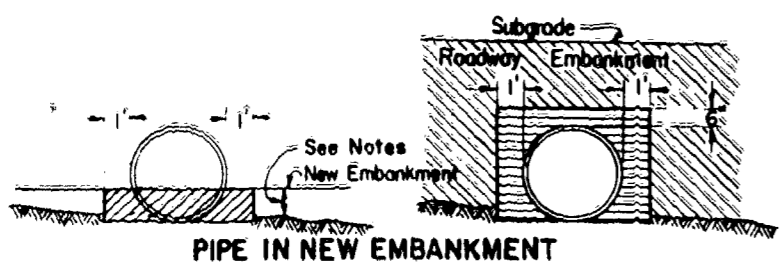
Approval Recommended
[Signature]
 Approved August 17 1957
 Chief Engineer License 5086
 To Assembly Plans Dated September 24, 1956



PIPE IN TRENCH

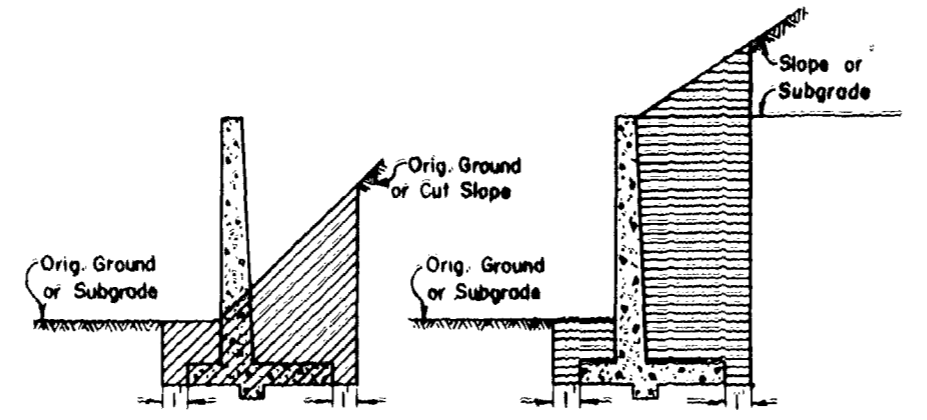


PIPE HEADWALLS

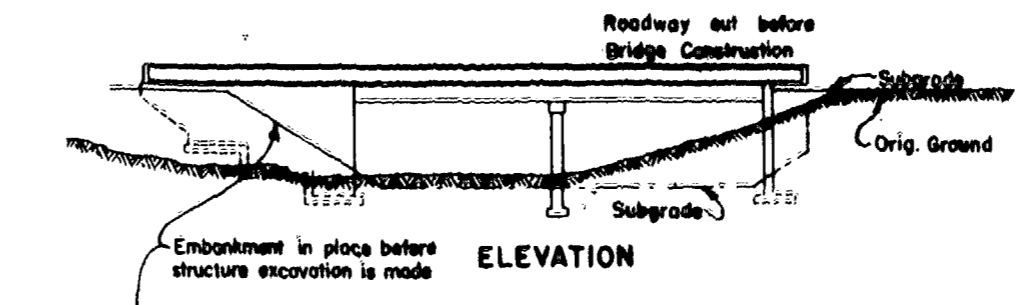


PIPE IN NEW EMBANKMENT

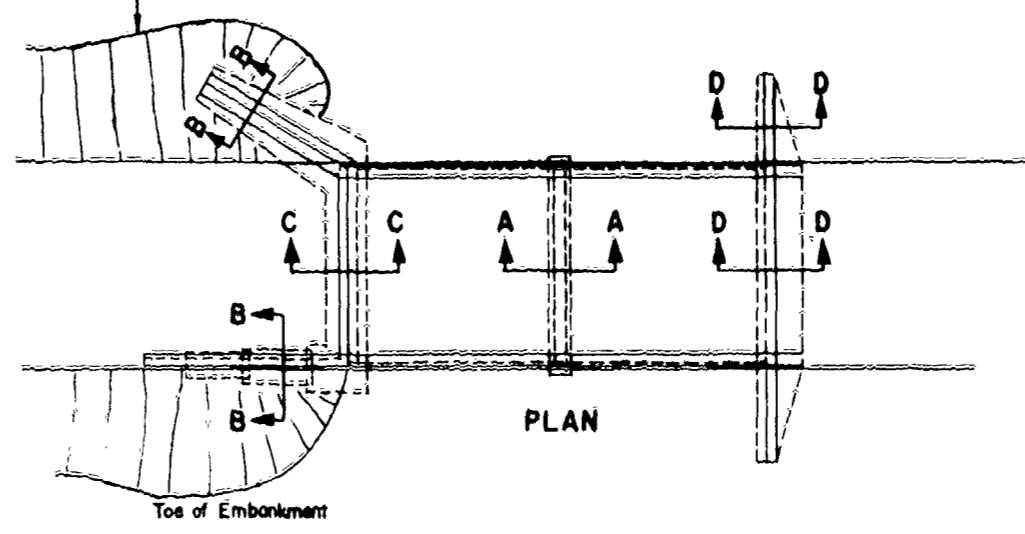
Height of Top of Embankment Before Excavating For Pipe Shall Be As Follows:
 For pipe 24" or less dia: 6" above top of pipe
 For C.M.P. over 24" to 90" dia: 30" above bottom of pipe
 For C.M.P. over 90" dia: 1/3 point of dia. above bottom of pipe
 For R.C.P. over 24" dia: 30" above bottom of pipe
 For field assembled plate culvert: 1/3 point of dia. above bottom of pipe
 Structure Backfill 6" Above Top of Pipe



RETAINING WALLS

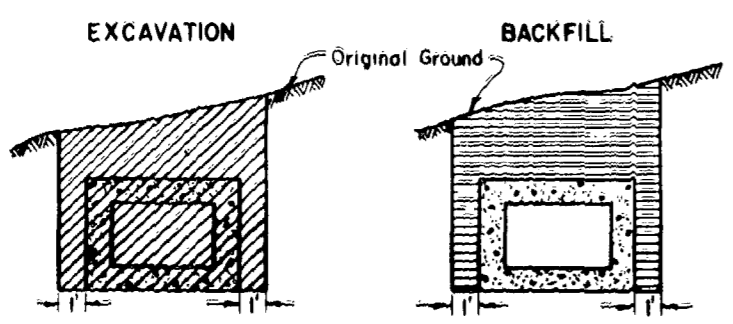


ELEVATION

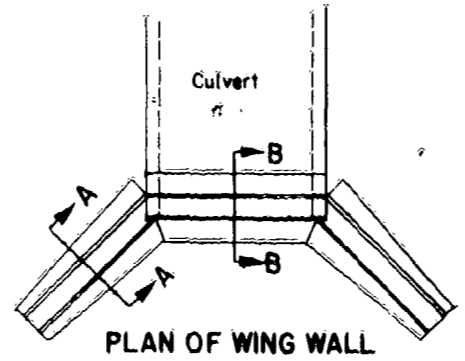


PLAN

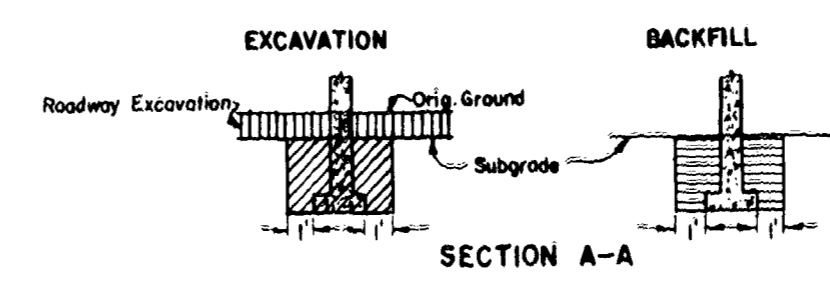
PIPES, RODS & DEADMEN
 Except Underdrains & Downdrains



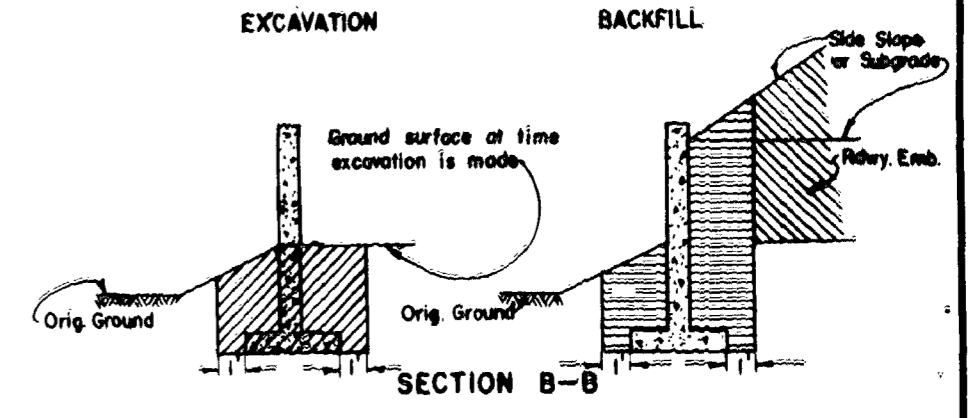
CULVERT IN TRENCH



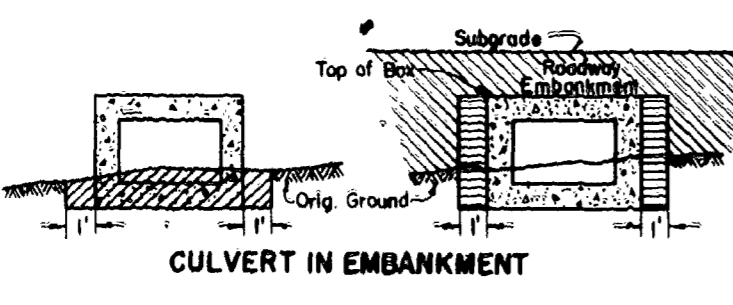
PLAN OF WING WALL



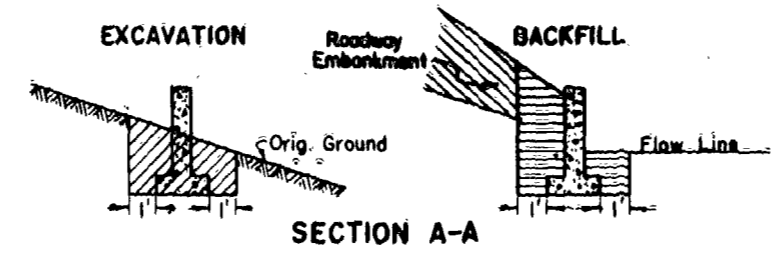
SECTION A-A



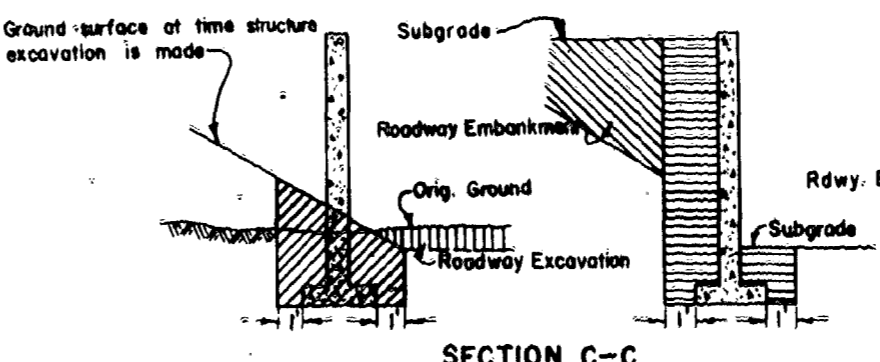
SECTION B-B



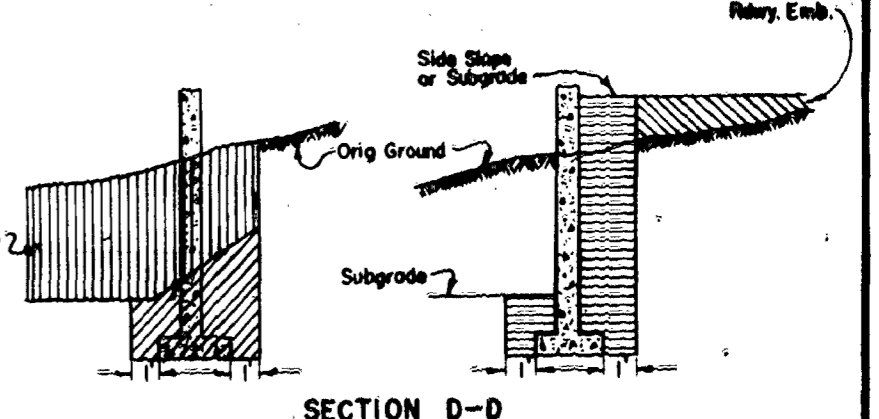
CULVERT IN EMBANKMENT



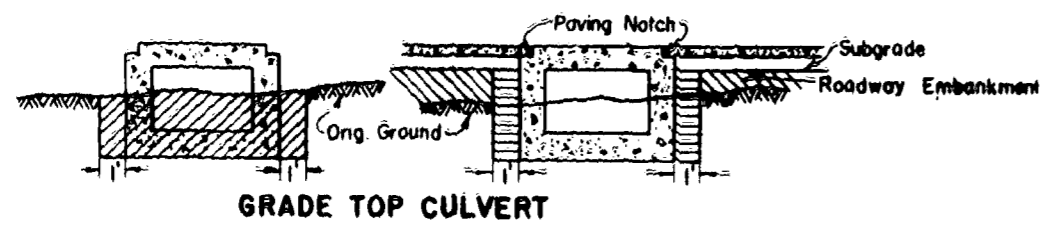
SECTION A-A



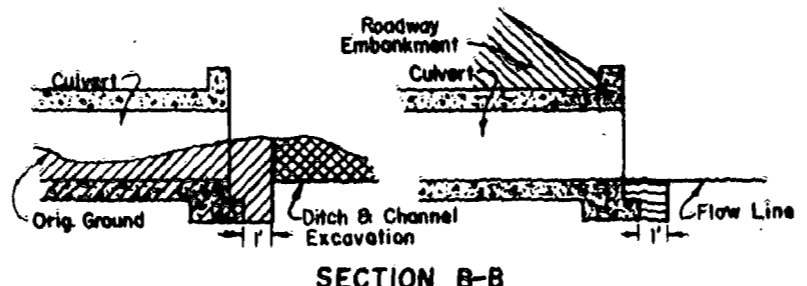
SECTION C-C



SECTION D-D



GRADE TOP CULVERT



SECTION B-B

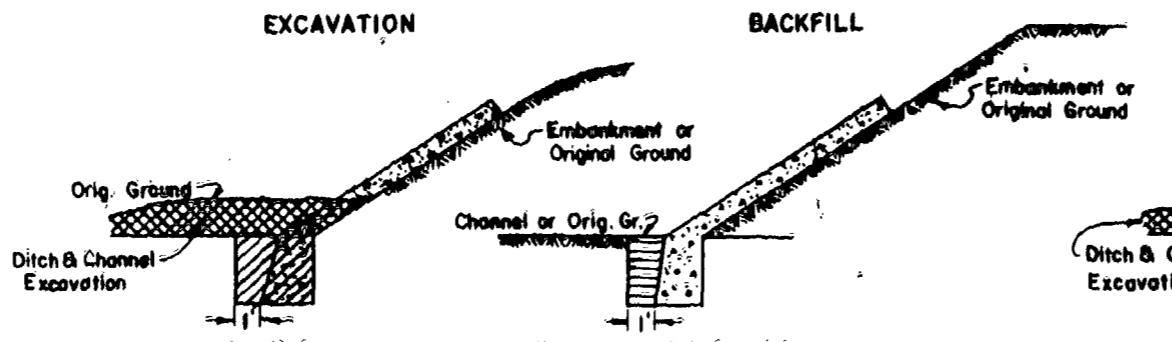
BRIDGE ABUTMENTS & ADJOINING WING WALLS

LEGEND

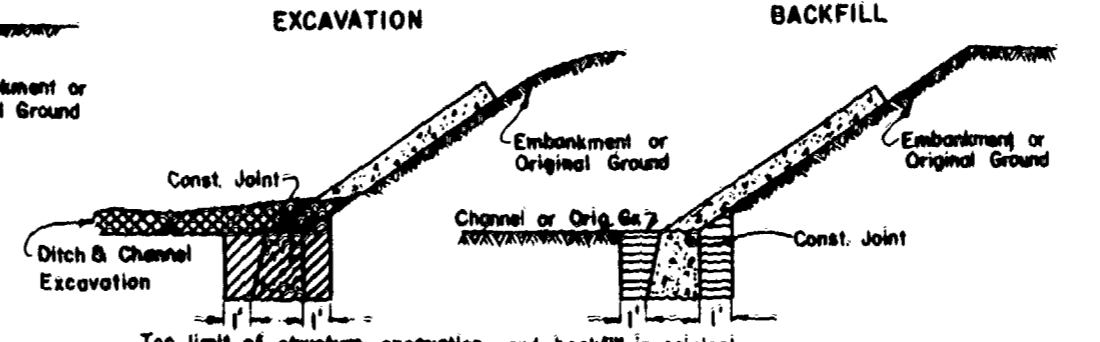
- Structure Excavation
- Structure Backfill
- Ditch & Channel Excavation
- Roadway Embankment
- Roadway Excavation

Note: Subgrade shall be lowest subgrade as defined in the Standard Specifications

BOX CULVERTS



MONOLITHIC CONCRETE SLOPE PAVING; RIPRAP



CONCRETE SLOPE PAVING

STATE OF CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 DIVISION OF HIGHWAYS

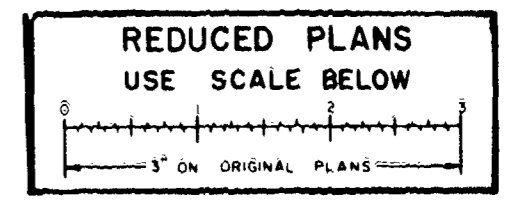
57-6DDC14P

**STRUCTURE EXCAVATION AND
 STRUCTURE BACKFILL**

Revised: 5-8-55
 Title: Revised: 10-1-54
 Title: Revised: 2-19-54
 Coping

20

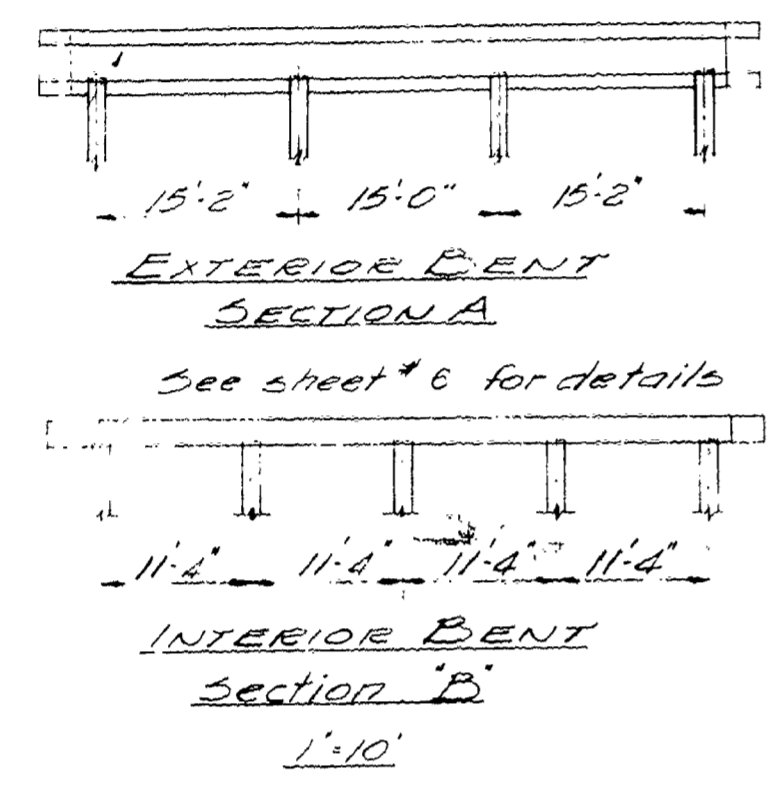
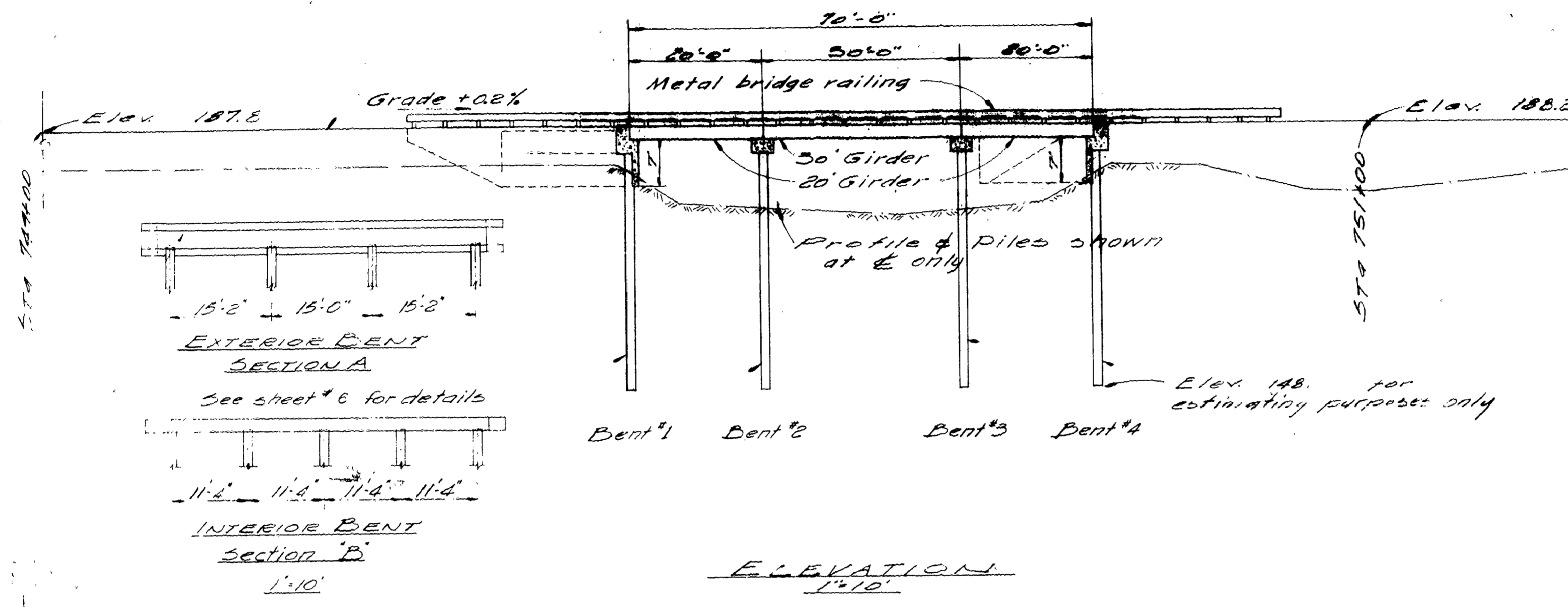
1-27



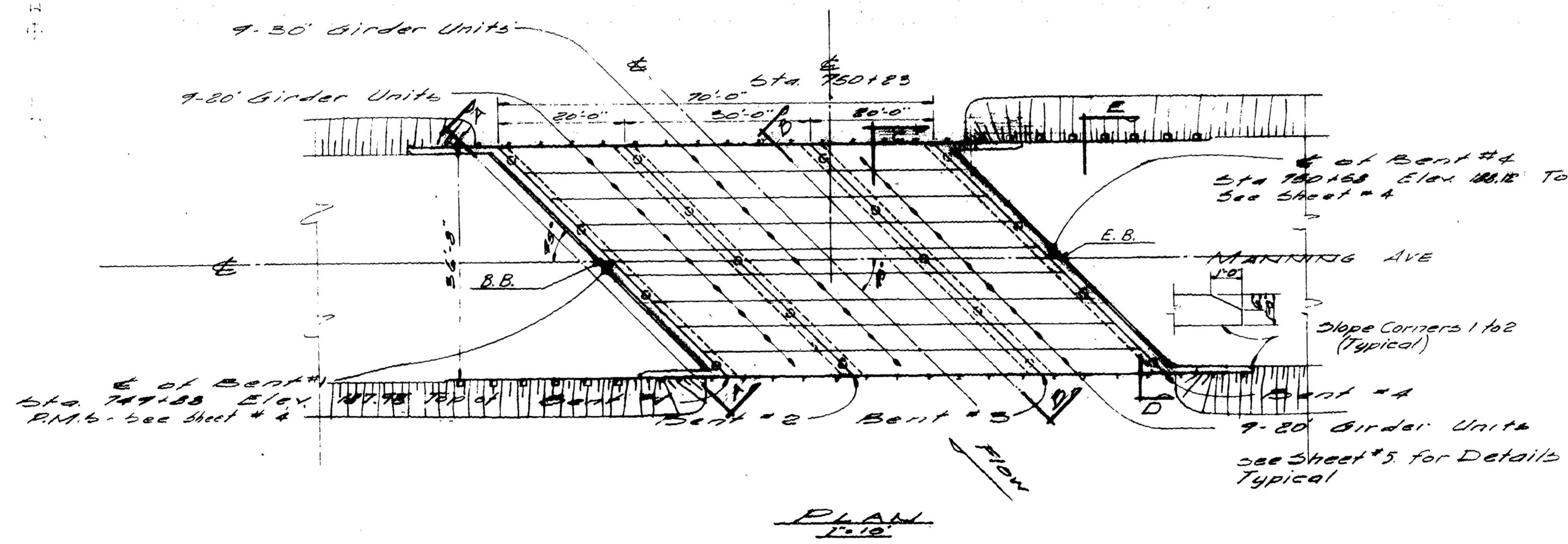
Carl F. Lind
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
CALIF.	750183	1967	21	22
COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS
17	17	2	1	7

McQuinn
 CIVIL ENGINEER - LICENSE 5898
 APPROVED: September 24, 1966



GENERAL NOTES
 Specifications
 Design: AASHTO, dated 1953, and Bridge Dept. of State of California, Supplement dated 1953.
 Construction: State of California, Division of Highways Stand. Specs. dated August 1954 and the special provisions accompanying these plans.
 Live Loading: H20-S16-44
 Unit Stresses: $f_c = 1200$ p.s.i., $f_s = 20,000$ p.s.i., $n = 10$
 Reinforcement: Hooks shall conform to the Manual of Standard Practice, A.C.I. Embedment is clear distance to outside bars and is two inches to main reinforcement, except as noted. Backing for hooks is four diameters except as noted. Where reinforcing bars are spliced they shall have a 20" diameter lap unless otherwise called for on the plans.
 Pile Loading: 32 Tons Type.



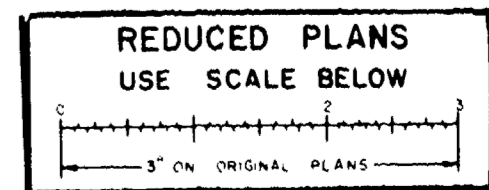
APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	35 C.Y.
STRUCTURE BACKFILL	35 C.Y.
CLASS "A" CONCRETE (BRIDGES) (92 C.Y.)	LUMP SUM
BAR REINFORCING STEEL (BRIDGES) (8,000 LBS.)	LUMP SUM
FURNISHING CONCRETE PILING	630 L.F.
DRIVING CONCRETE PILES	18 EA.
FURNISHING PRECAST REINFORCED CONCRETE DECK UNITS (20' LONG)	18 EA.
FURNISHING PRECAST REINFORCED CONCRETE DECK UNITS (30' LONG)	9 EA.
ERECTING PRECAST REINFORCED CONCRETE DECK UNITS	27 EA.
METAL BEAM BRIDGE RAILING	252 L.F.

AS BUILT PLANS
 Current Date: _____
 Date: _____

C75124-1
 COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
**MANNING AVE
 BRIDGE @ 750183**

James Canal
 Br. No. 65-65

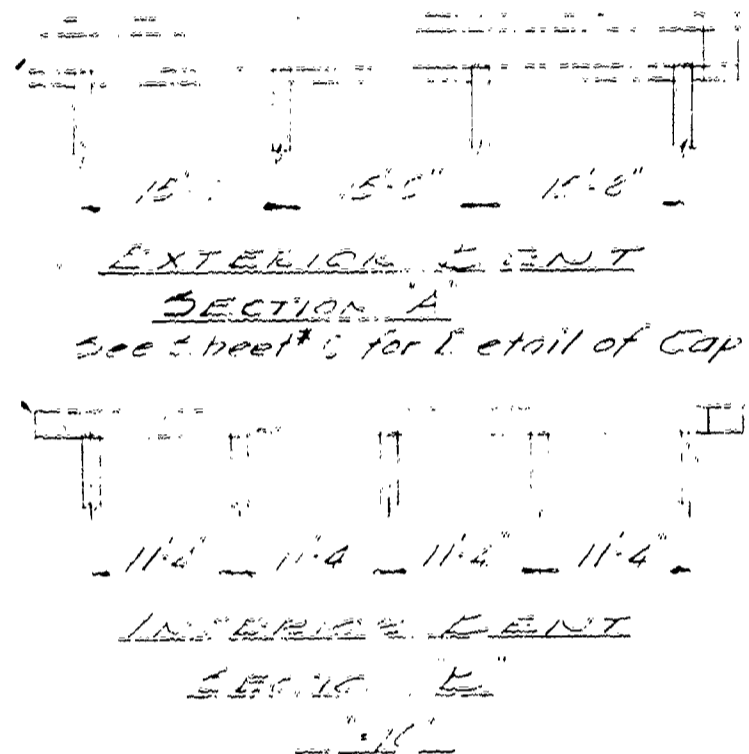
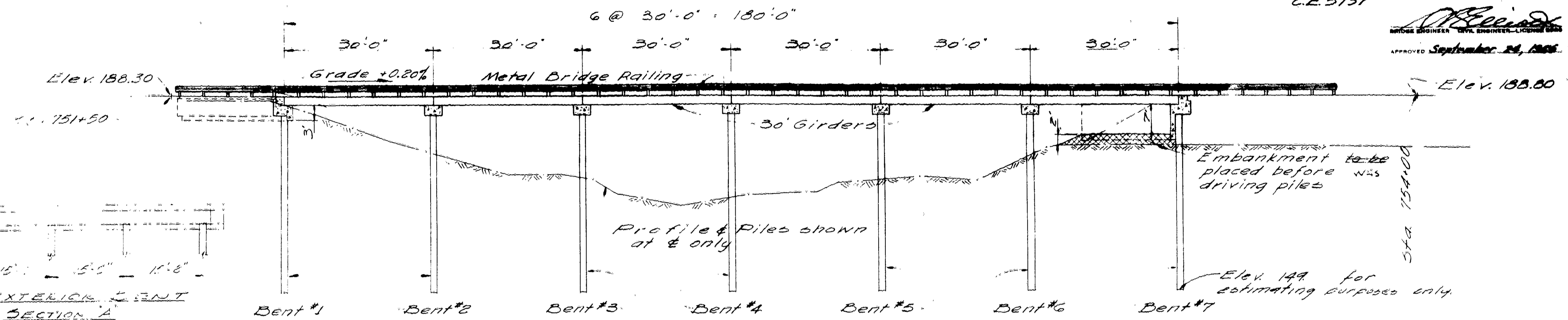


1-27

Carl F. Lind
 FRESCO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

PROJECT NO.	2017	SHEET NO.	22
COUNTY	FRESNO	DATE	9/27/66
ROUTE	97	SCALE	1" = 10'
VI LINE	017	DATE	9/27/66

APPROVED *[Signature]*
 September 24, 1966

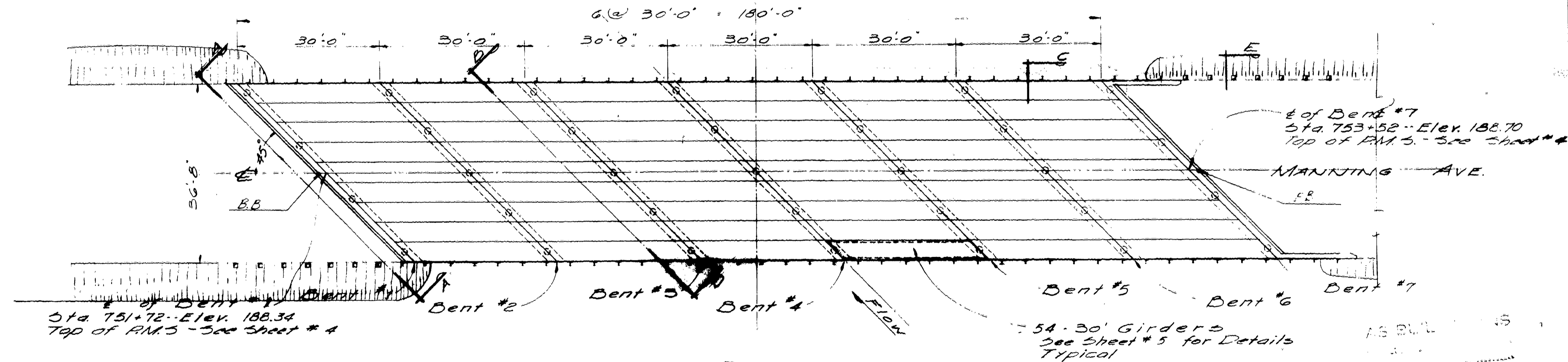


APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	75 C.Y.
STRUCTURE BACKFILL	40 C.Y.
CLASS "A" CONCRETE (BRIDGES)(124 C.Y.)	LUMP SUM
BAR REINFORCING STEEL (BRIDGES)(14,000 LBS.)	LUMP SUM
FURNISHING CONCRETE PILING	1,160 L.F.
DRIVING CONCRETE PILES	33 EA.
FURNISHING PRECAST REINFORCED CONCRETE DECK UNITS (30' LONG)	54 EA.
ERECTING PRECAST REINFORCED CONCRETE DECK UNITS	54 EA.
METAL BEAM BRIDGE RAILING	468 L.F.

ELEVATION
 1" = 10'

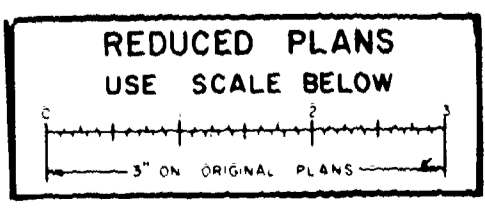
Sta 752+62



PLAN
 1" = 12'

COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 MANNING AVE
 BRIDGE @ 752+62

Fresno Slough Bypass
 Br. No. 42c-66



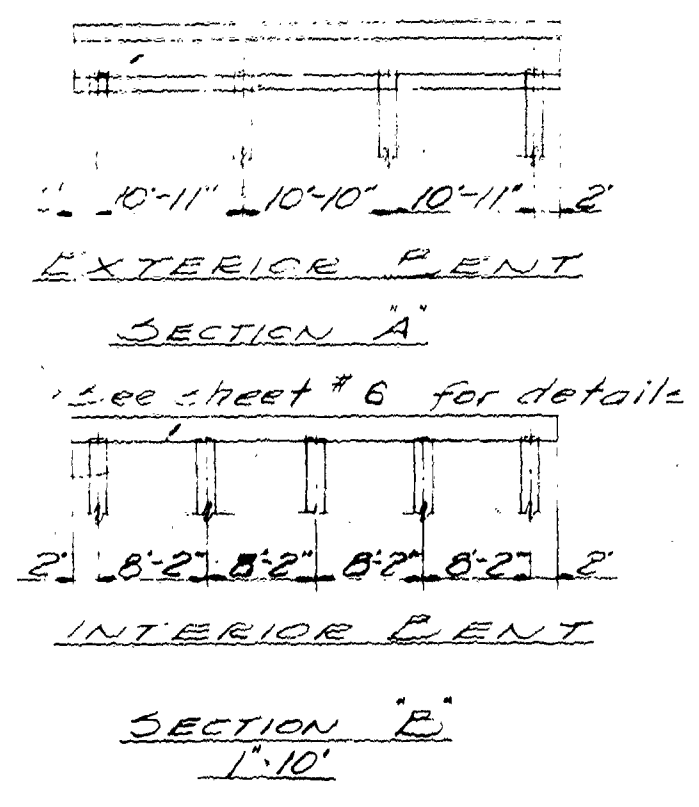
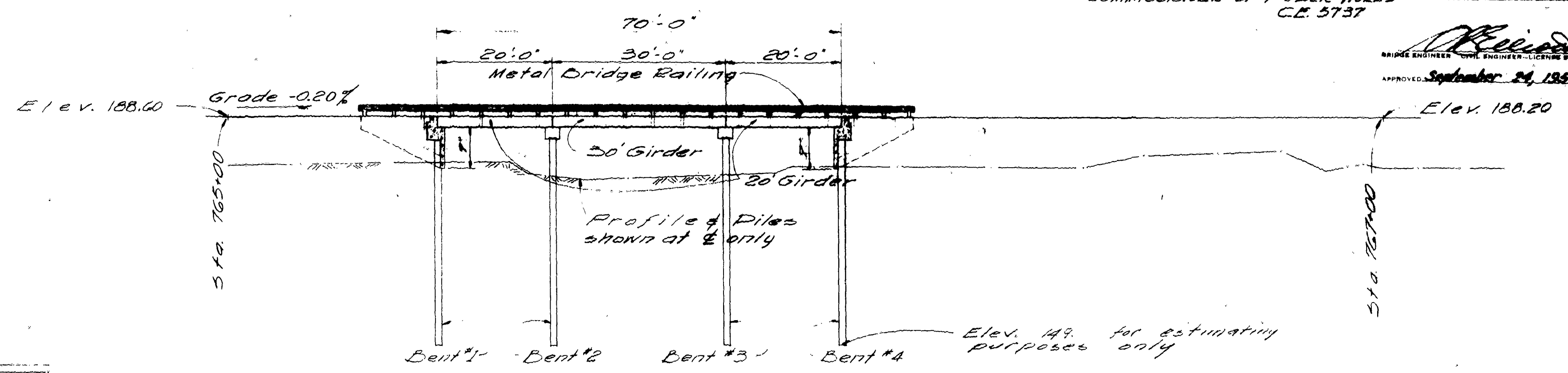
22

1-27

Carl F. Link
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5737

STATE	PROJECT	FISCAL	SHIFT	TOTAL
7	VI 35	217	E 3	7
COUNTY	ROUTE	SEC.	POST	MILE
VI 35	217	E 3		7

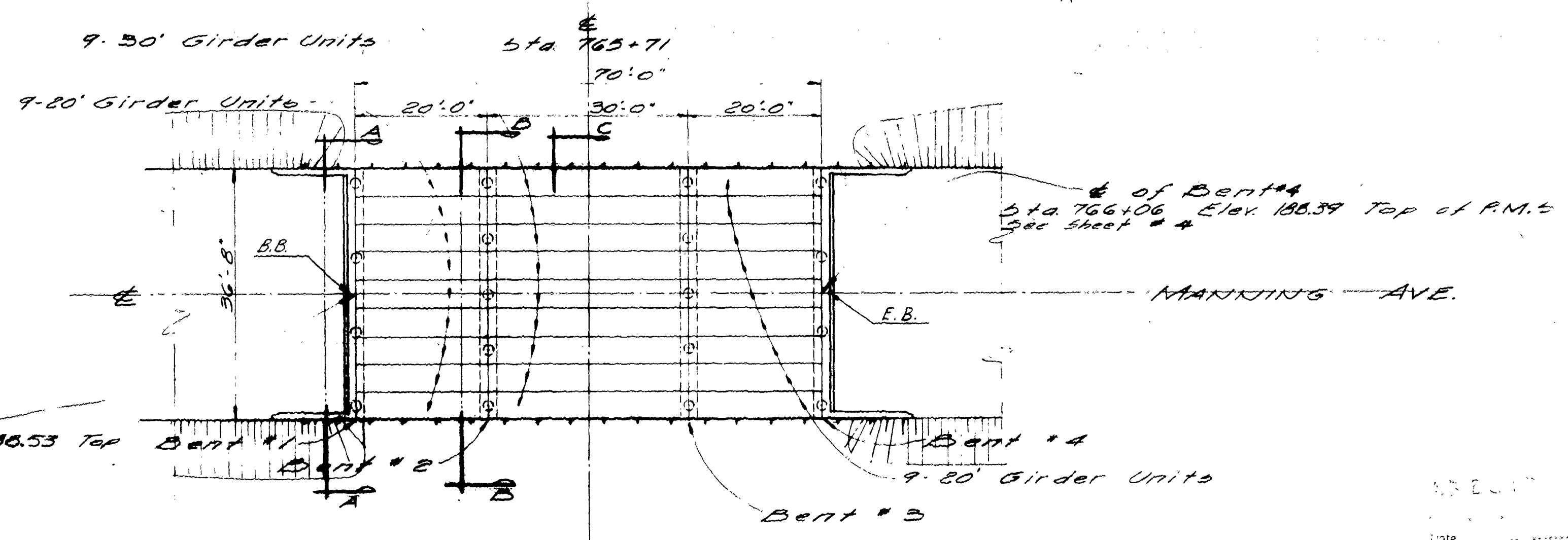
Keenan
 REGISTERED CIVIL ENGINEER - LICENSE NO. 1234
 APPROVED: September 24, 1956



APPROXIMATE QUANTITIES

STRUCTURE EXCAVATION	10 C.Y.
STRUCTURE BACKFILL	25 C.Y.
CLASS "A" CONCRETE (BRIDGES) (64 C.Y.)	LUMP SUM
BAR REINFORCING STEEL (BRIDGES) (6,000 LBS.)	LUMP SUM
FURNISHING CONCRETE PILING	710 L.F.
DRIVING CONCRETE PILES	18 EA.
FURNISHING PRECAST REINFORCED CONCRETE DECK UNITS (20' LONG)	18 EA.
FURNISHING PRECAST REINFORCED CONCRETE DECK UNITS (30' LONG)	9 EA.
ERECTING PRECAST REINFORCED CONCRETE DECK UNITS	27 EA.
METAL BEAM BRIDGE RAILING	180 L.F.

ELEVATION
 1"=10'



PLAN
 1"=10'

E of Bent #1
 Sta. 765+36 Elev. 188.53 Top
 of P.M.S. - see sheet # 4

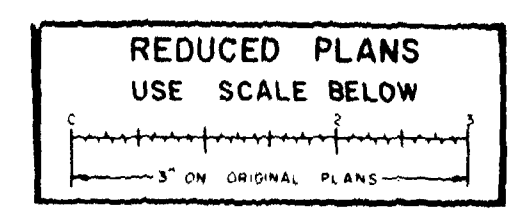
E of Bent #4
 Sta. 766+06 Elev. 188.39 Top of P.M.S.
 See sheet # 4

DATE:

05124-3

COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 MANNING AVE
 BRIDGE @ 765+71

Fresno Slough
 En. No. 42c-67



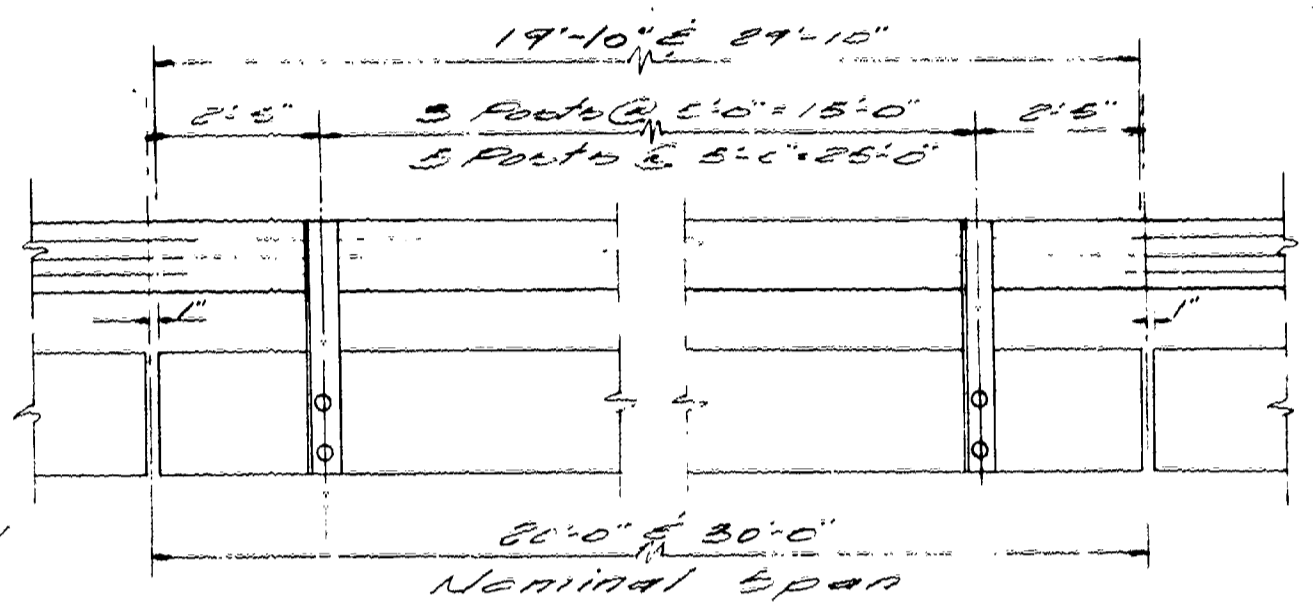
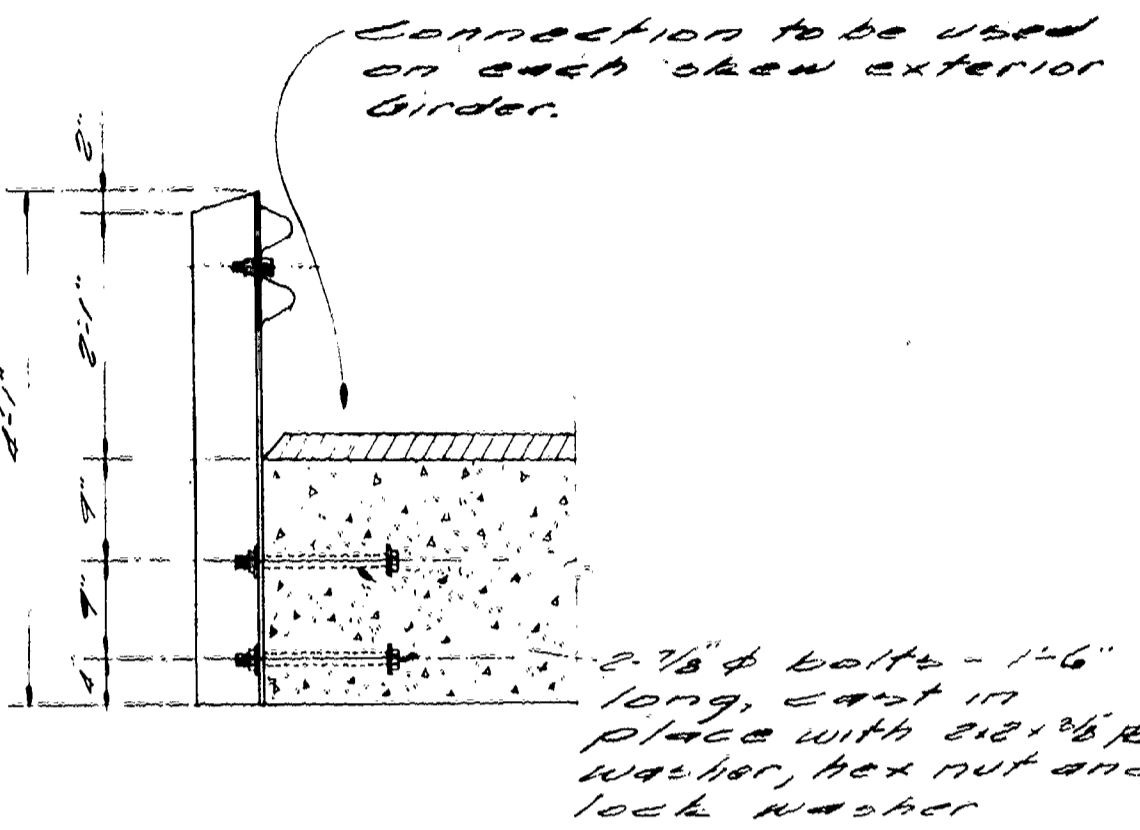
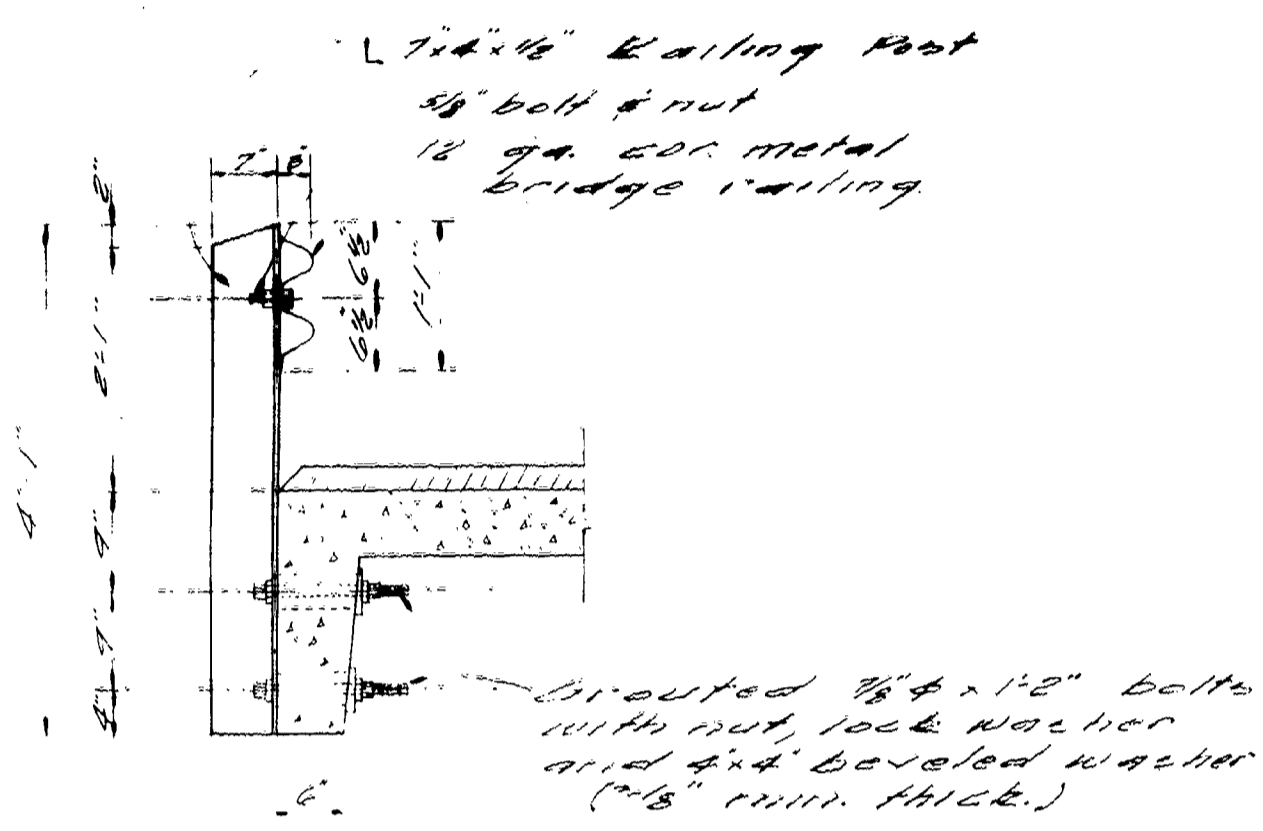
1-27

23

Structural Design
 Checked by
 Drawn by
 Approved by

STATE	CALIF.
COUNTY	FRESNO
DIST.	VI
ROUTE	24
SEC.	3
SP.	4

[Signature]
 BRIDGE ENGINEER - CIVIL ENGINEER - LICENSE 6500
 APPROVED September 28, 1956

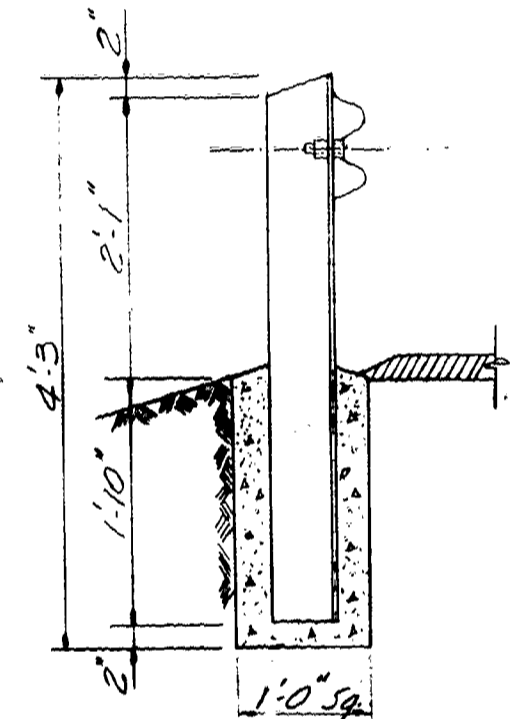


SECTION C
1" = 1/2"

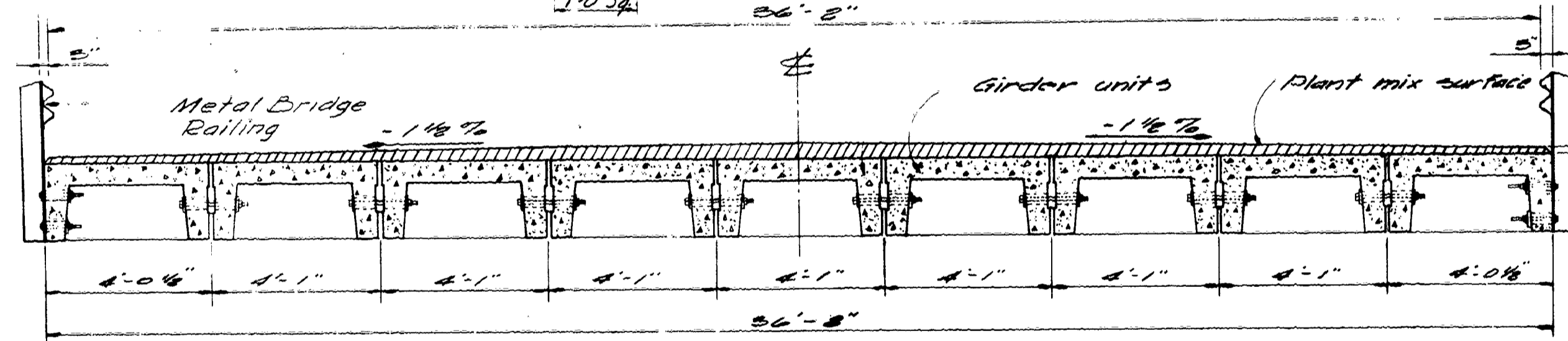
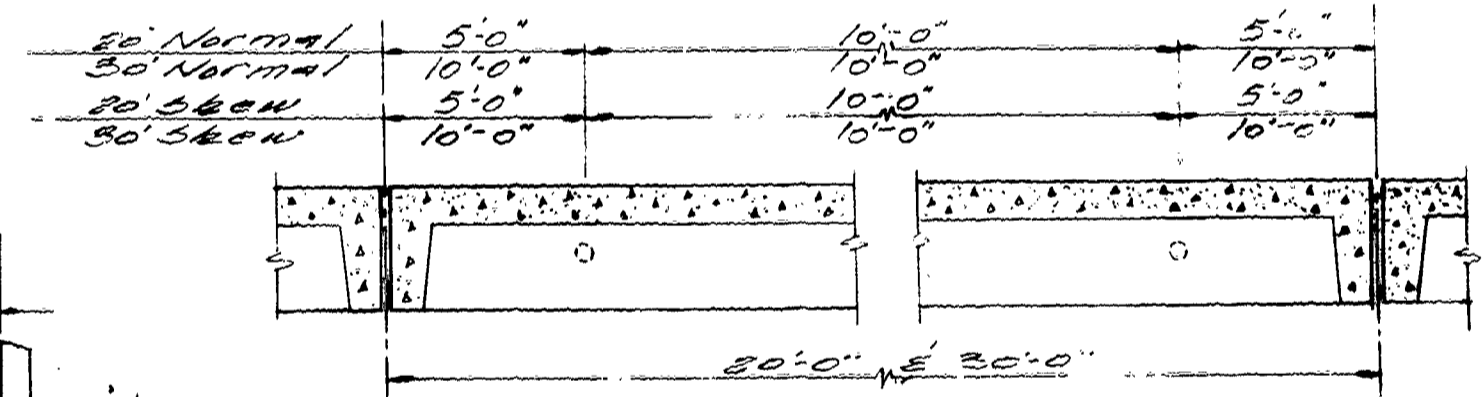
SECTION D
1 1/2" = 1"

ELEVATION OF METAL RAILING
1/2" = 1'-0"

SECTION E
1" = 1'-0"

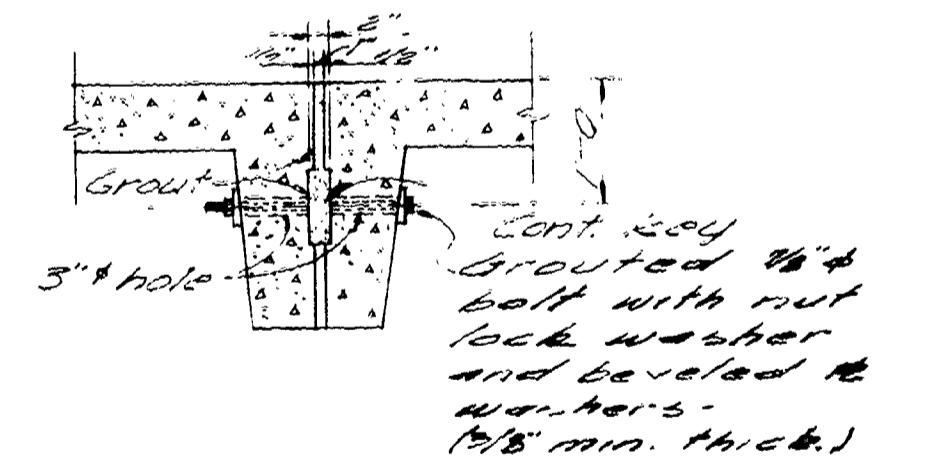


RAILING CONNECTIONS
All hardware to be galvanized



TYPICAL SECTION THRU BRIDGES

SPACING OF GIRDER UNIT CONNECTIONS



TYPICAL GIRDER CONN.

TRANSVERSE ASSEMBLY

AS BUILT PLANS
 Date: _____

Br. No. { 42c-65
 42c-66
 42c-67

655124-4
 COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
MANNING AVE BRIDGE ASSEMBLY
 DRAWN BY: T. A. E. S. CHECKED BY: []

REDUCED PLANS
 USE SCALE BELOW
 3" ON ORIGINAL PLANS

Structural Details
 Prepared by
 Checked by
 Approved by
 Date: _____

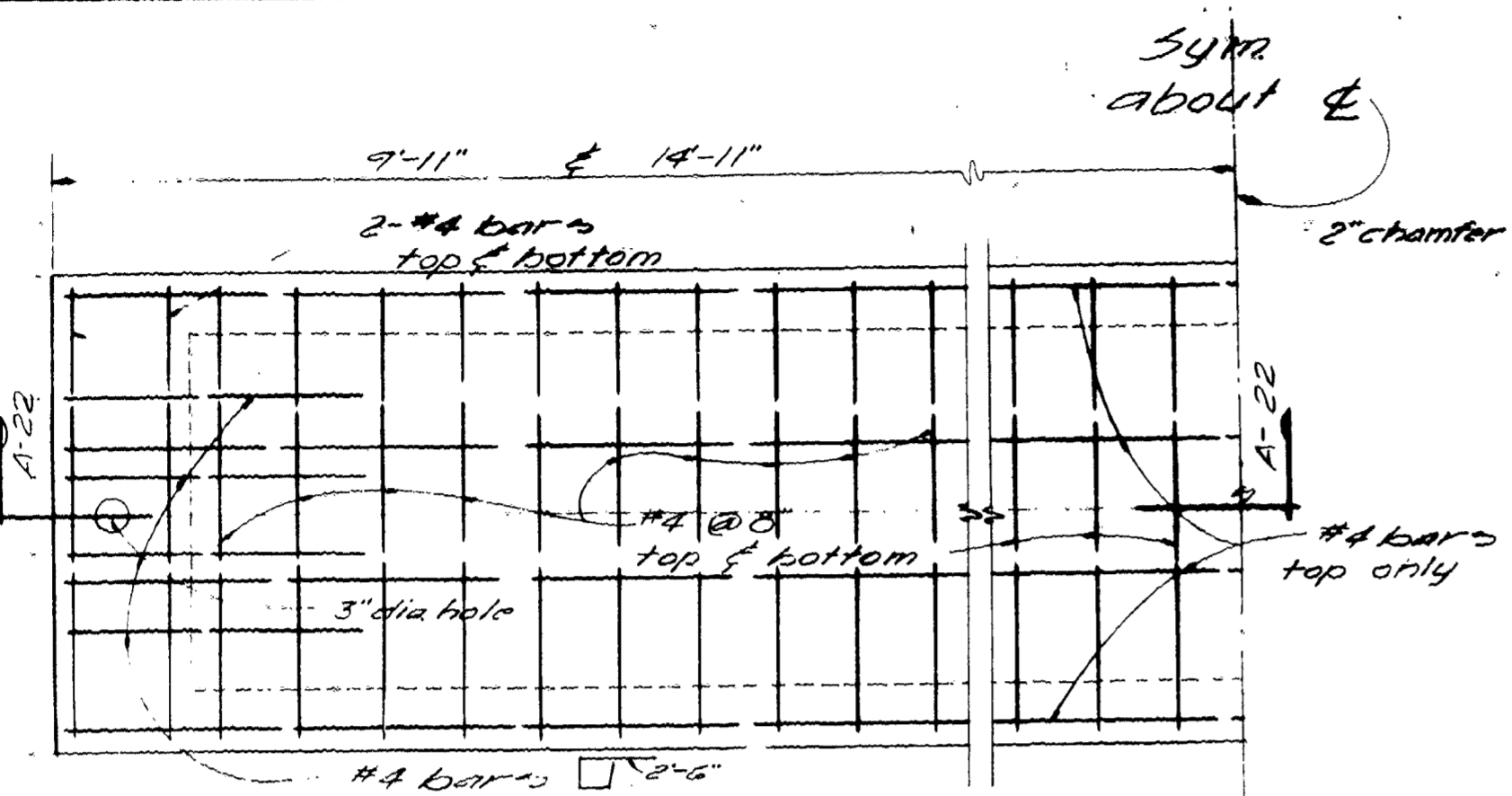
24

1-27

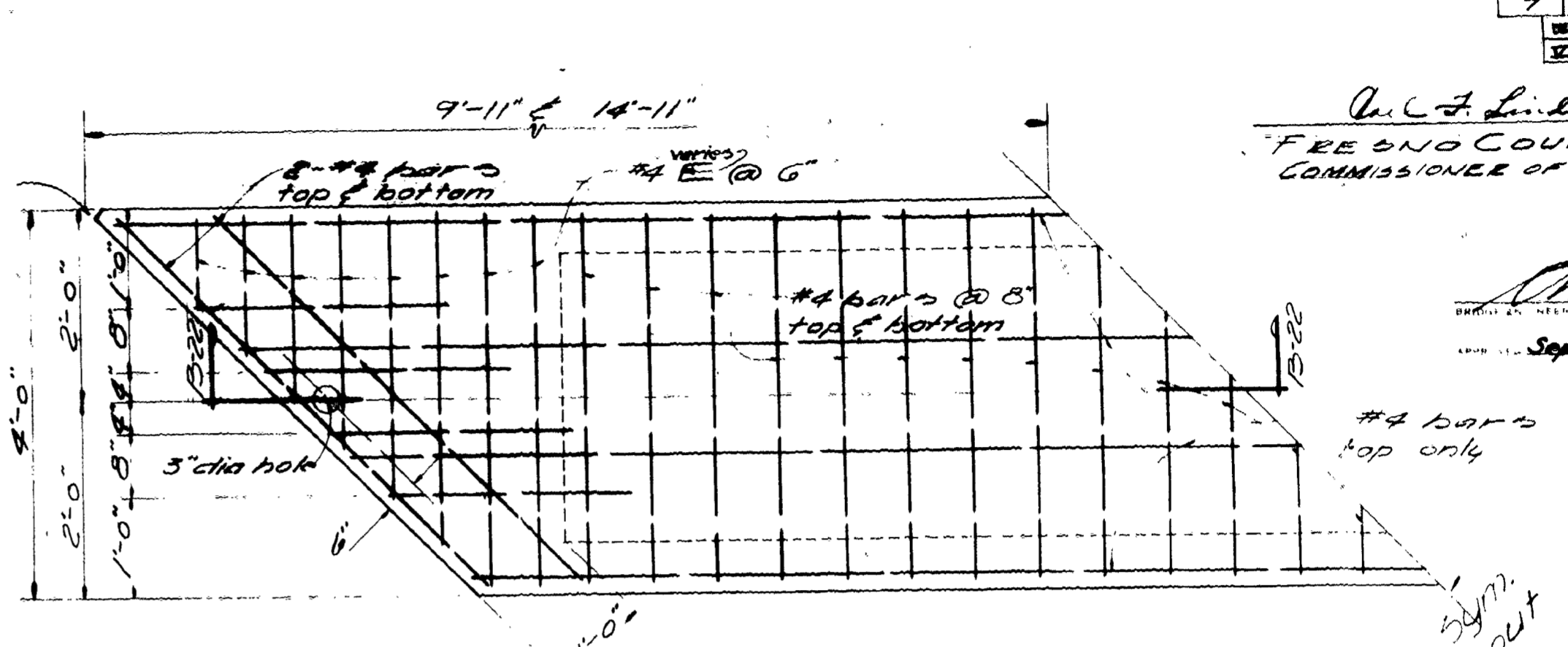
PLAN SHEET NO.	STATE	PROJECT	DATE
7	CALIF.	MANHATTAN AVE. PRECAST GIRDERS	10/27/55
DATE	COUNTY	DESIGN	SCALE
10/27/55	FRESNO	17	6' 5'

Chas. F. Lind
 FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.C. 5737

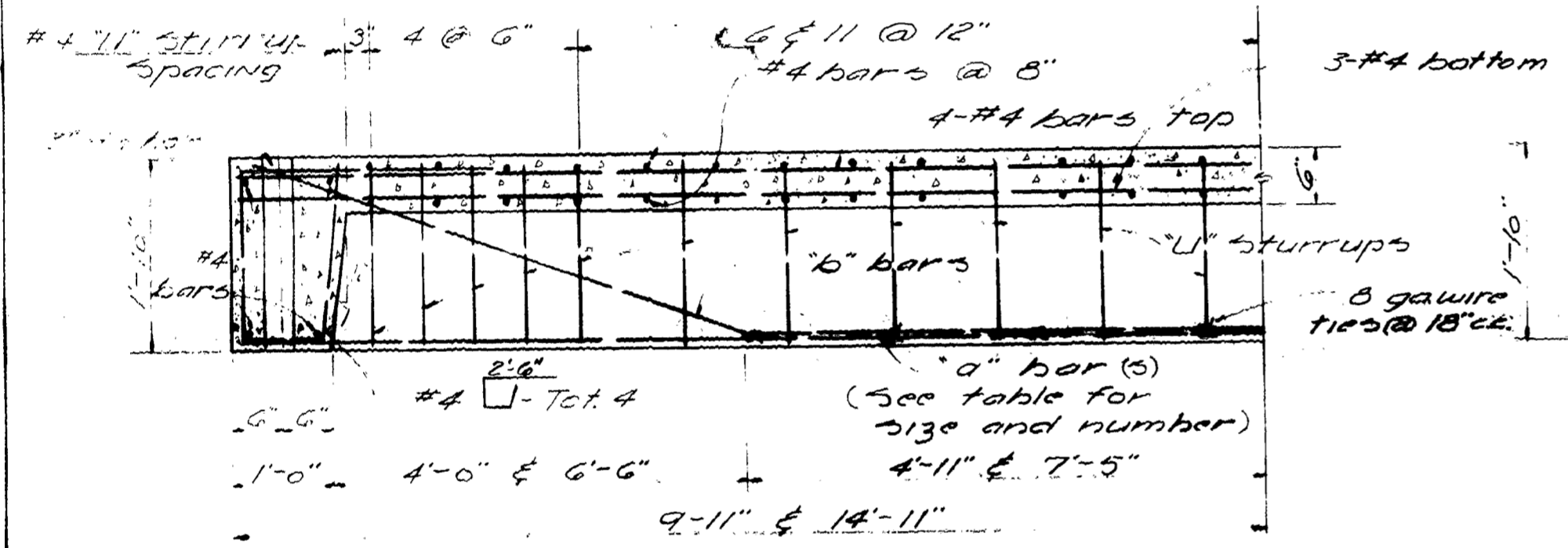
September 29, 1955



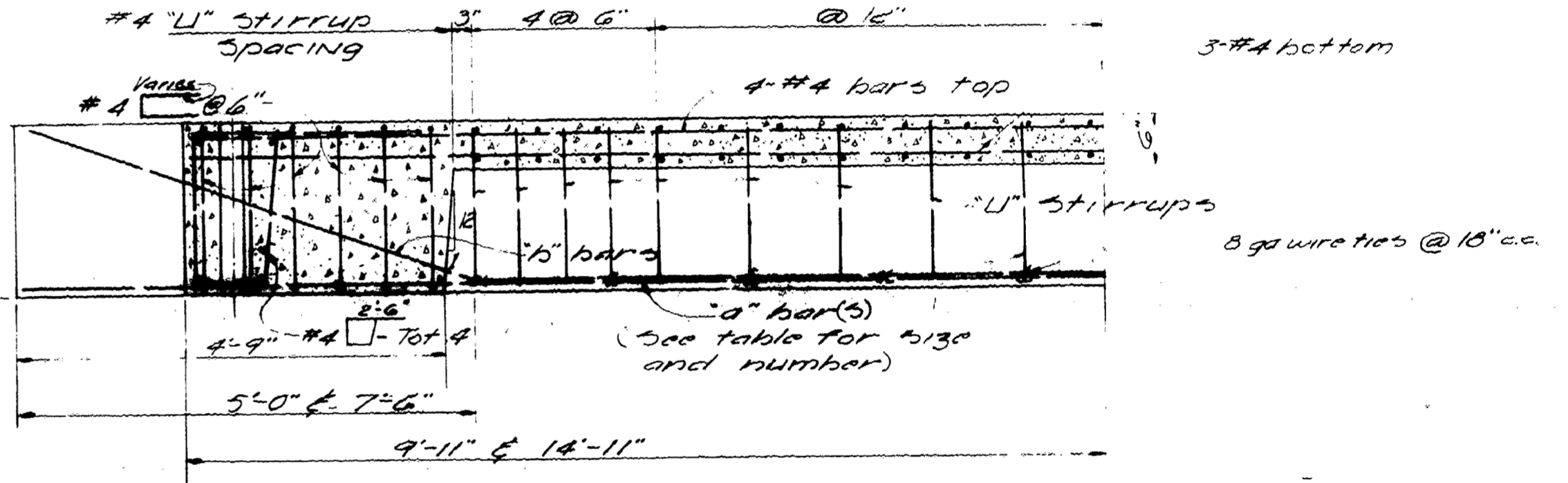
NORMAL GIRDER UNIT
 1"=1'-0"



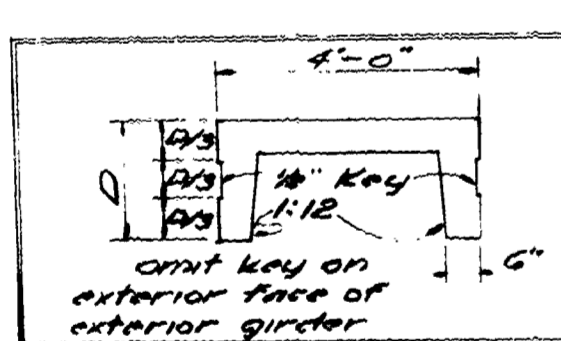
SKEW GIRDER UNIT
 1"=1'-0"



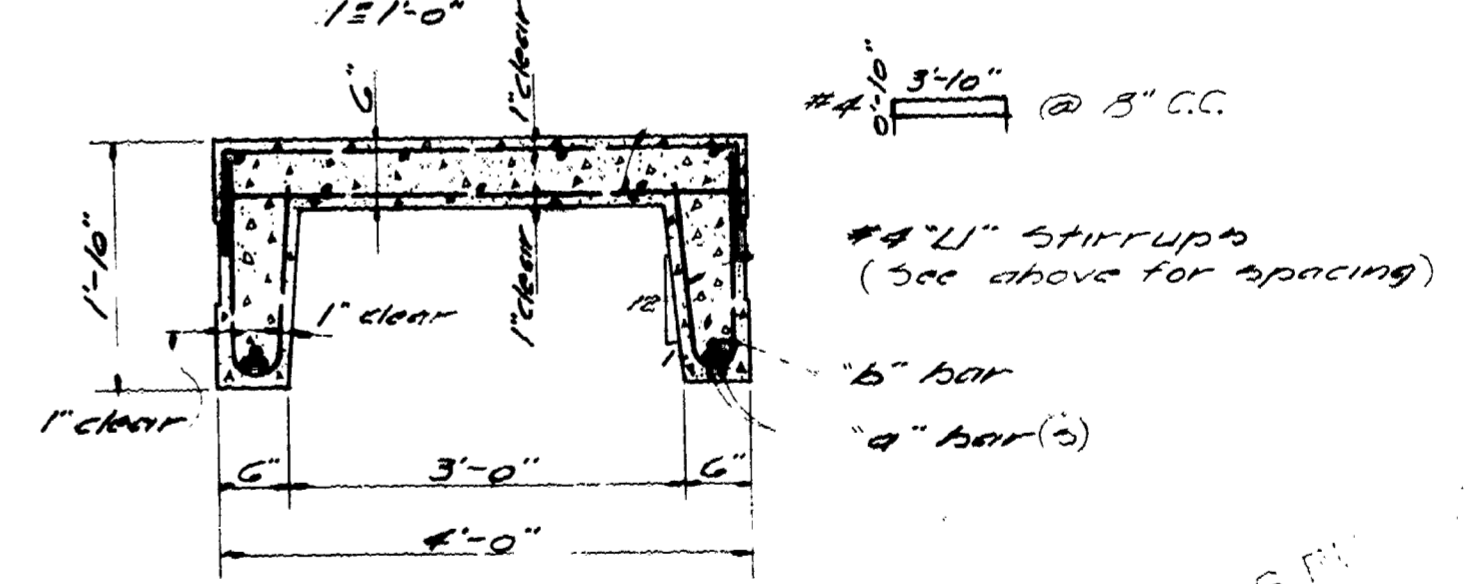
SECTION A-22
 1"=1'-0"



SECTION B-22
 1"=1'-0"



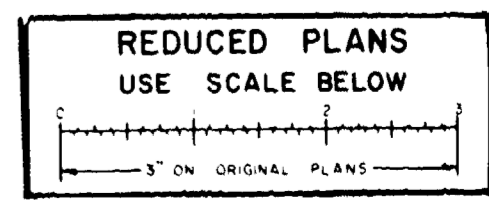
Normal Span (S) ft.	Unit Length (L) ft.	D=22 Reinforcement			Approx. Unit Wt. Tons
		No.	No.		
20'-0"	19'-10"	#10	#9	5	
30'-0"	29'-10"	2#11	#10	8	



TYPICAL UNIT SECTION

C-5124-5
 COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
 MANHATTAN AVE. PRECAST GIRDERS

Br. No. { 42c-65
 42c-66
 42c-67



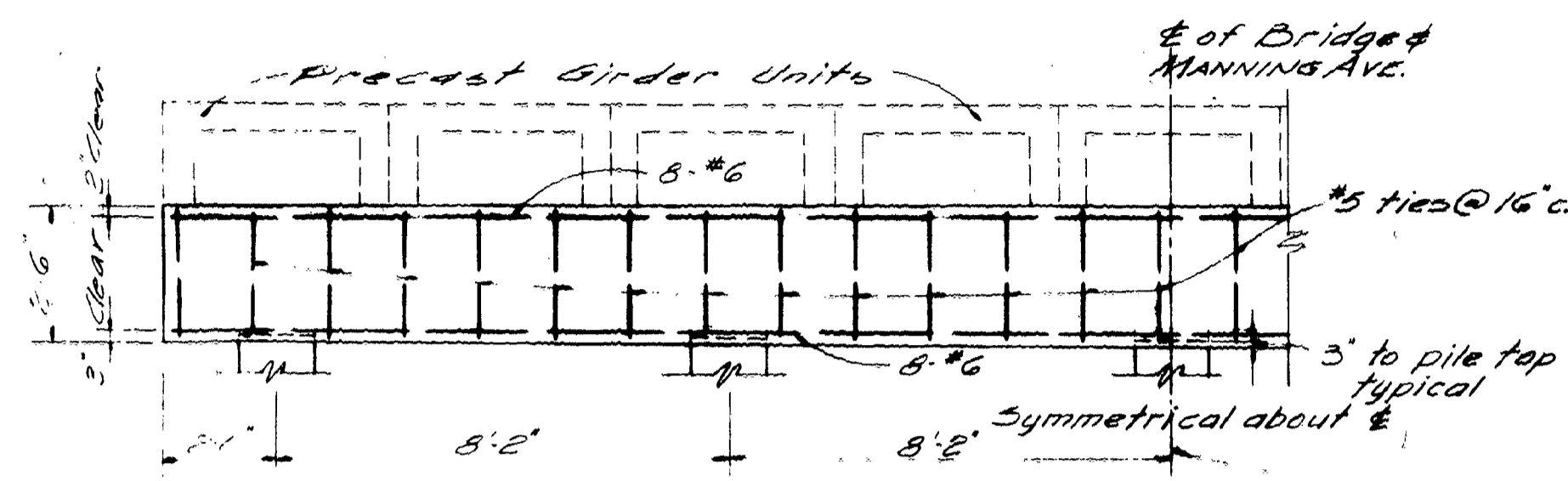
1-27

25

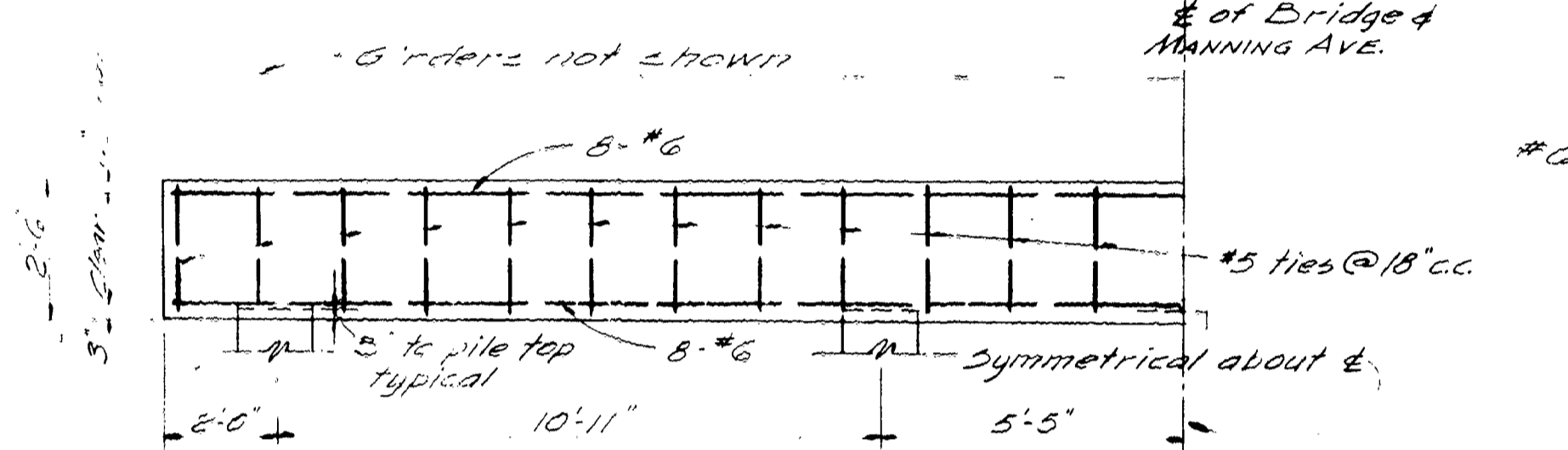
P.O. No.	STATE	DATE	BY
7	CALIF.		
DIST.	COUNTY	ROUTE	S.P.
VI	FRESNO	477	6 6 7

Jul F. ...
FRESNO COUNTY
 COMMISSIONER OF PUBLIC WORKS
 C.E. 5757

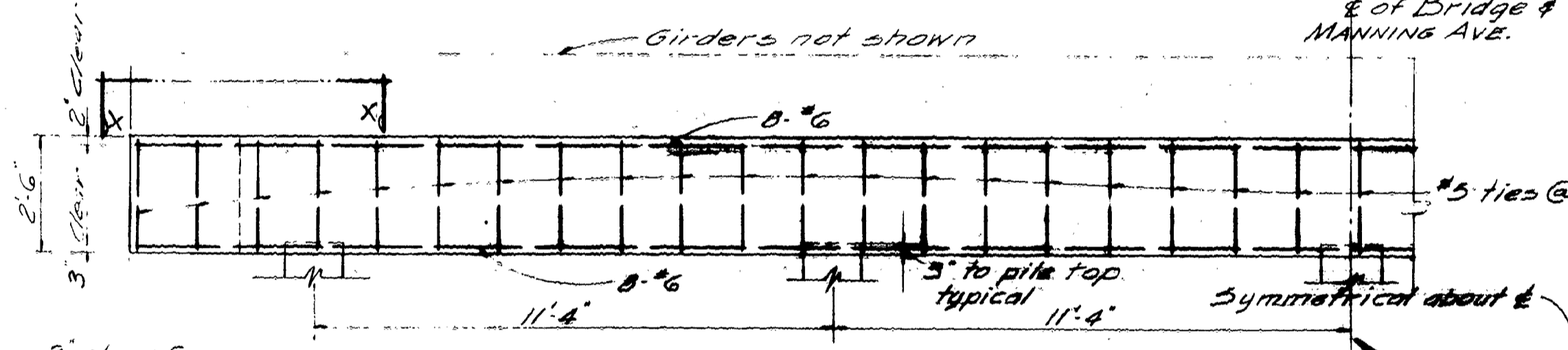
Approved
 BRIDGE ENGINEER - CIVIL ENGINEER - LICENSE 8088
 APPROVED September 24, 1956



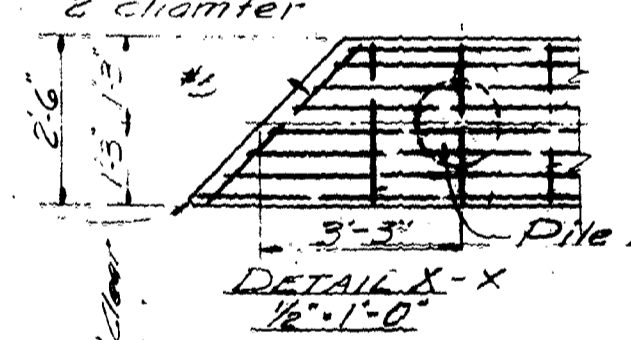
INTERIOR PILE CAP - BRIDGE NORMAL
 1/2" = 1'-0"



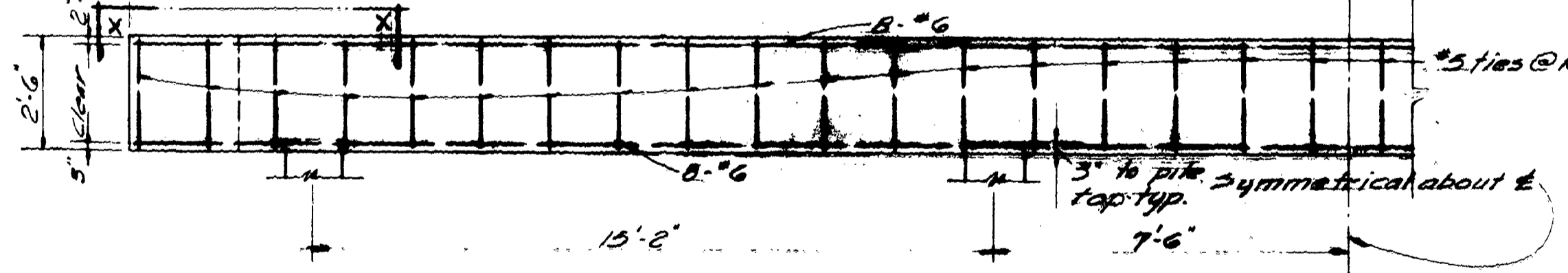
EXTERIOR PILE CAP - BRIDGE NORMAL
 1/2" = 1'-0"



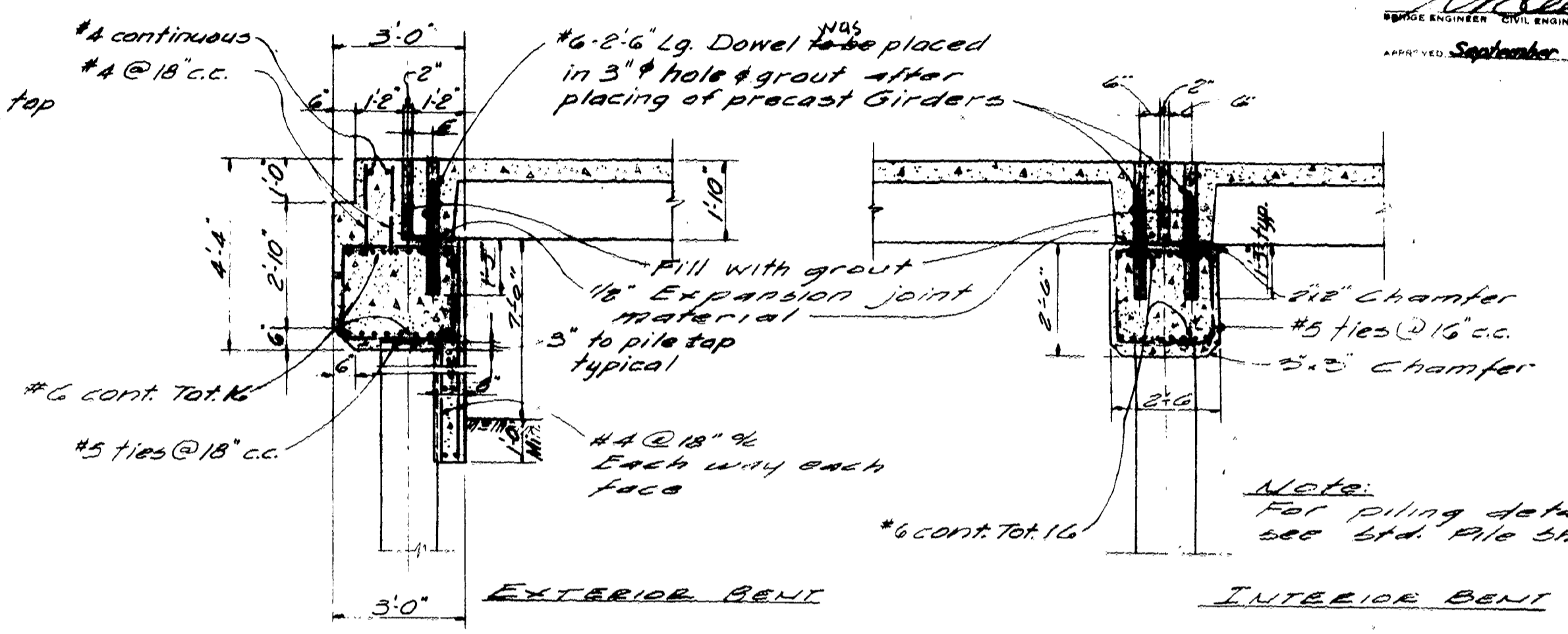
INTERIOR PILE CAP - BRIDGE SKEW
 1/2" = 1'-0"



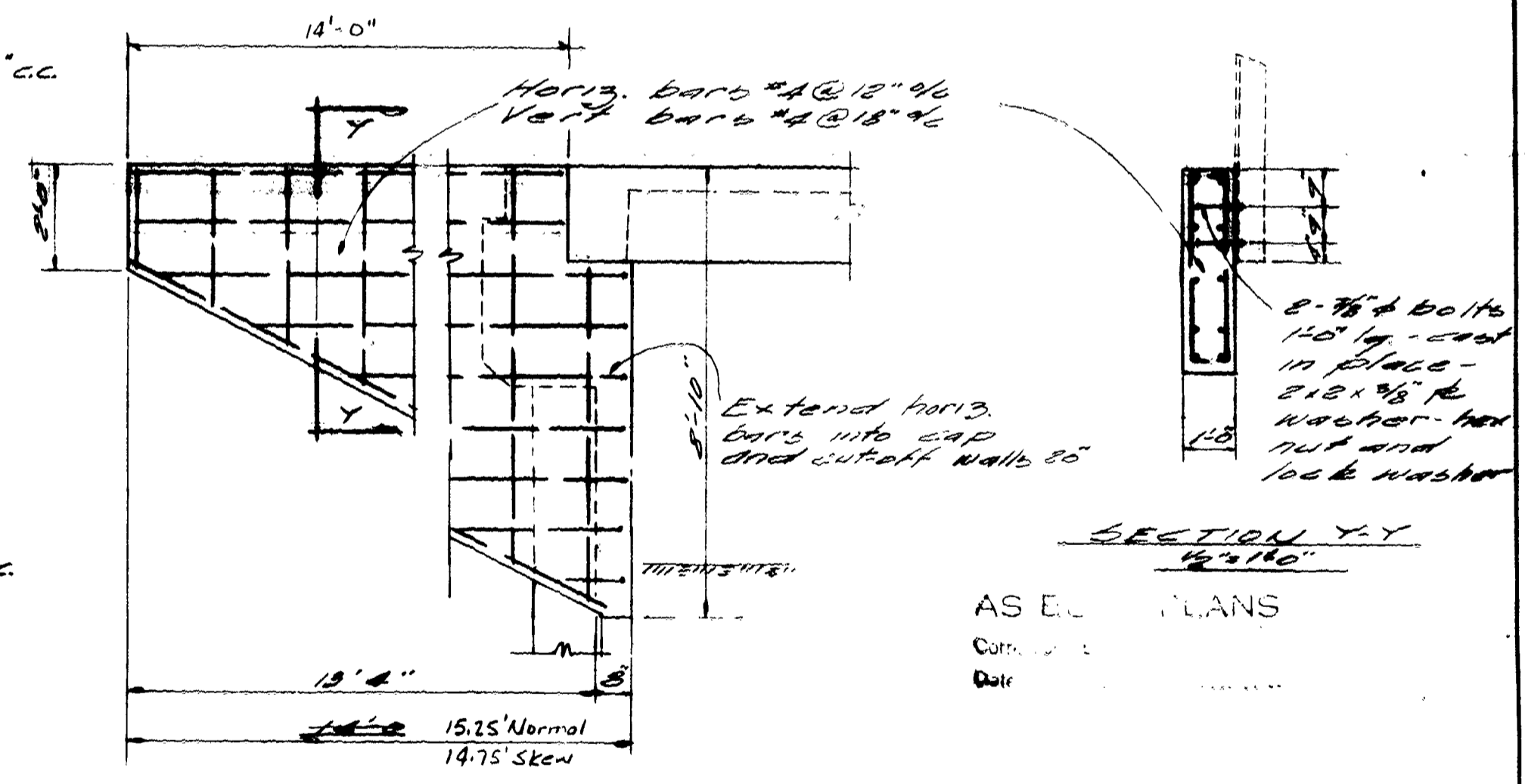
DETAIL X-X
 1/2" = 1'-0"



EXTERIOR PILE CAP - BRIDGE SKEW
 1/2" = 1'-0"



TYPICAL BENT CAP DETAILS
 1/2" = 1'-0"



WINGWALL DETAILS
 1/2" = 1'-0"

AS SHOWN IN PLANS
 CORR. ...
 Date

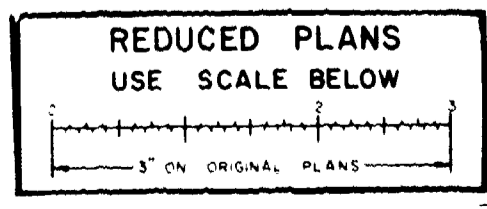
Br. No. 42c-65
 42c-66
 42c-67

COUNTY OF FRESNO - CALIFORNIA
 DEPARTMENT OF PUBLIC WORKS
MANNING AVE. BENT CAPS.

DATE	BY	CHK.	APPR.

26

1-27



Lead: Prestressing Note.
Alt. "X"
J. Becker 4-56

STANDARD DRAWING
Submitted by: *[Signature]*
Checked by: *[Signature]*
Approved: *[Signature]*

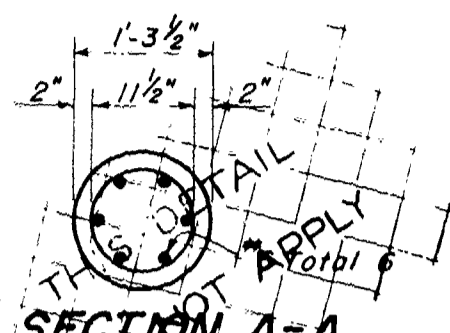
BRIDGE DEPARTMENT

Structural Details
Checked by: *[Signature]*
Approved: *[Signature]*

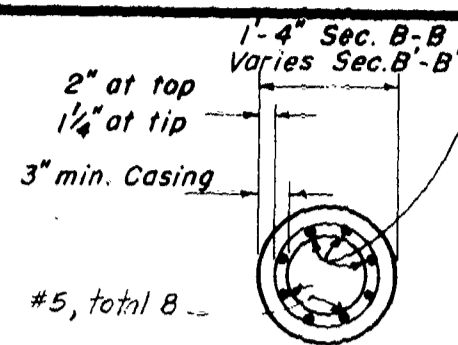
Pile shell minimum diameter = 12" I.D.



PLAN
Scale: 3/4" = 1'-0"

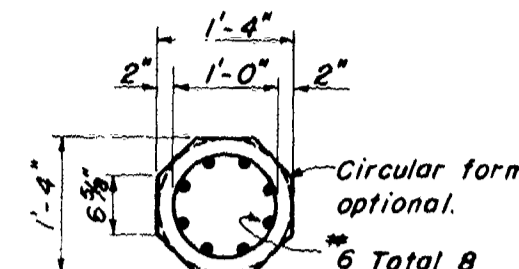


SECTION A-A
Scale: 3/4" = 1'-0"

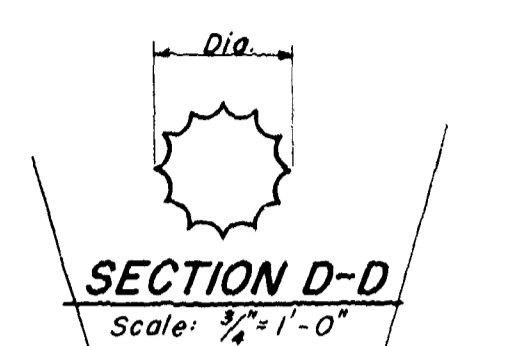


SECTION B-B
Scale: 3/4" = 1'-0"

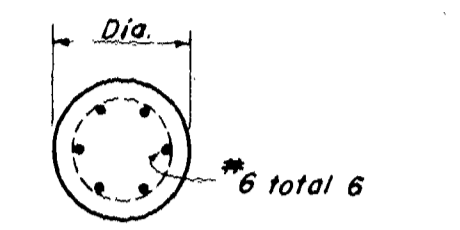
As an alternate to the #5 bars the longitudinal reinforcement may consist of steel strands prestressed to have a total remaining force after losses of not less than 67,000 lbs. At no time shall the stress in the steel exceed 0.8 of its ultimate value.



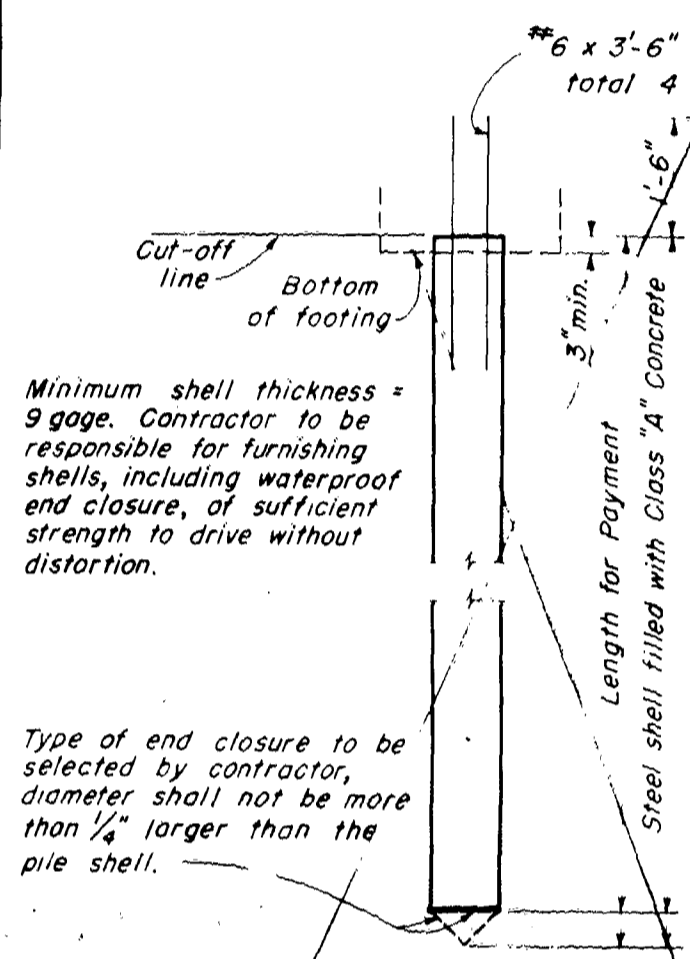
SECTION C-C
Scale: 3/4" = 1'-0"



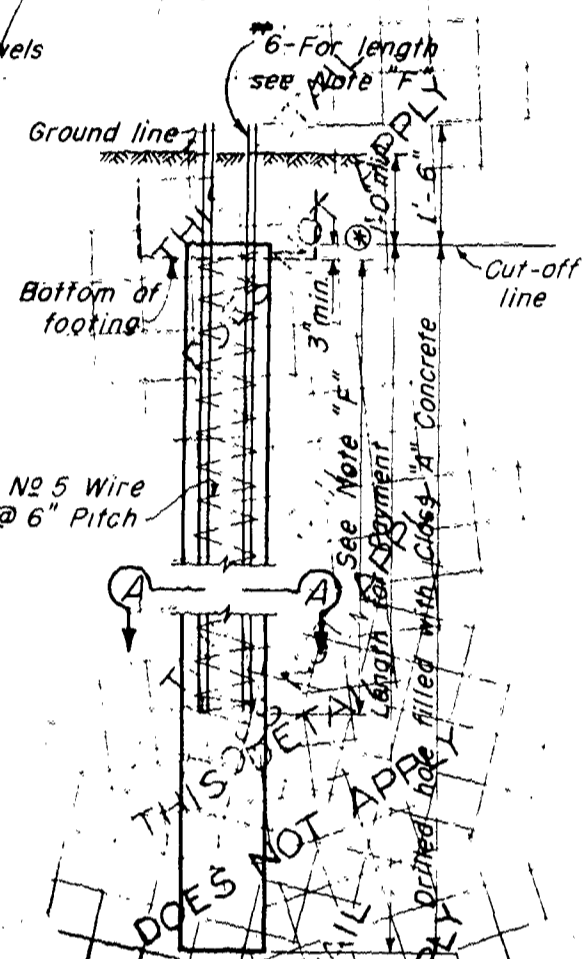
SECTION D-D
Scale: 3/4" = 1'-0"



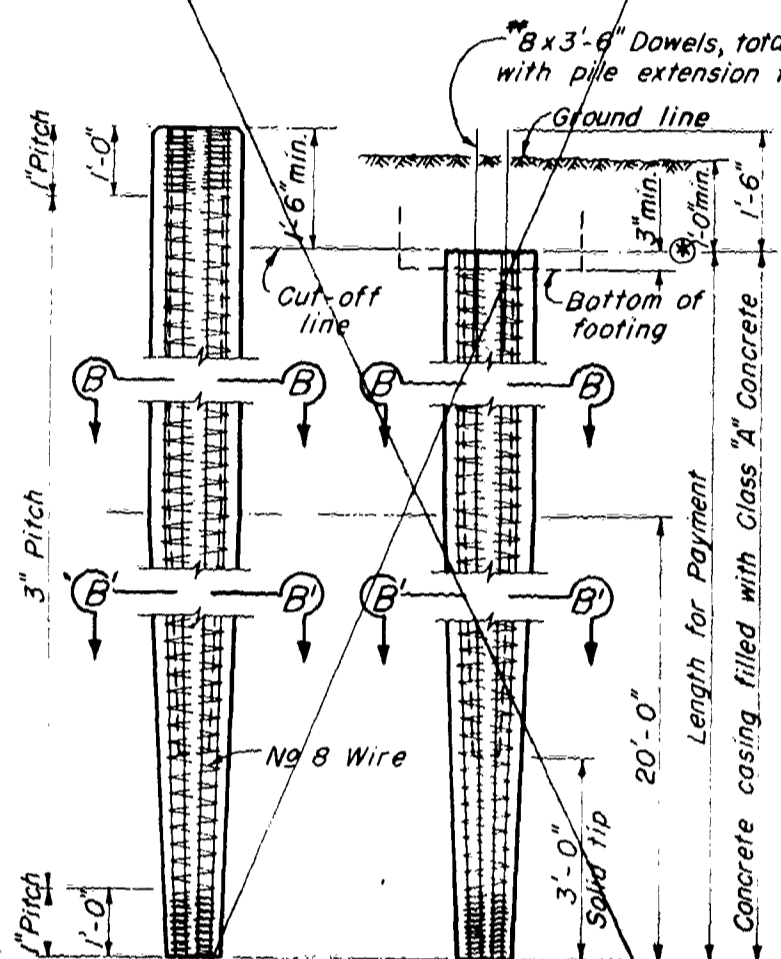
SECTION E-E
Scale: 3/4" = 1'-0"



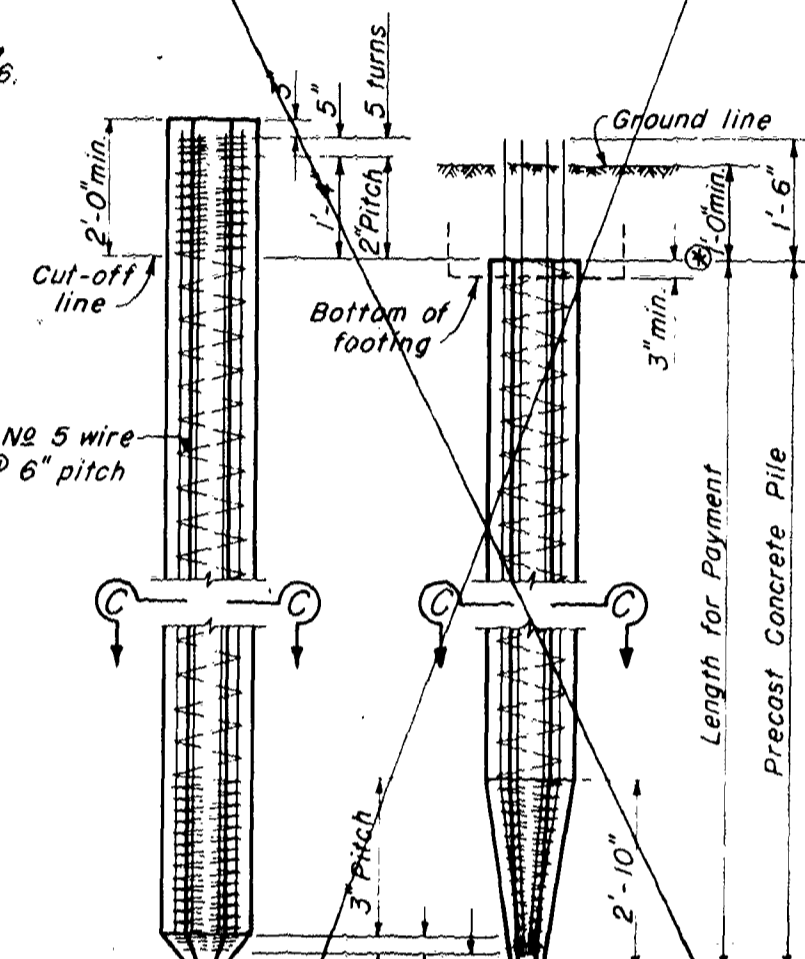
CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "U"



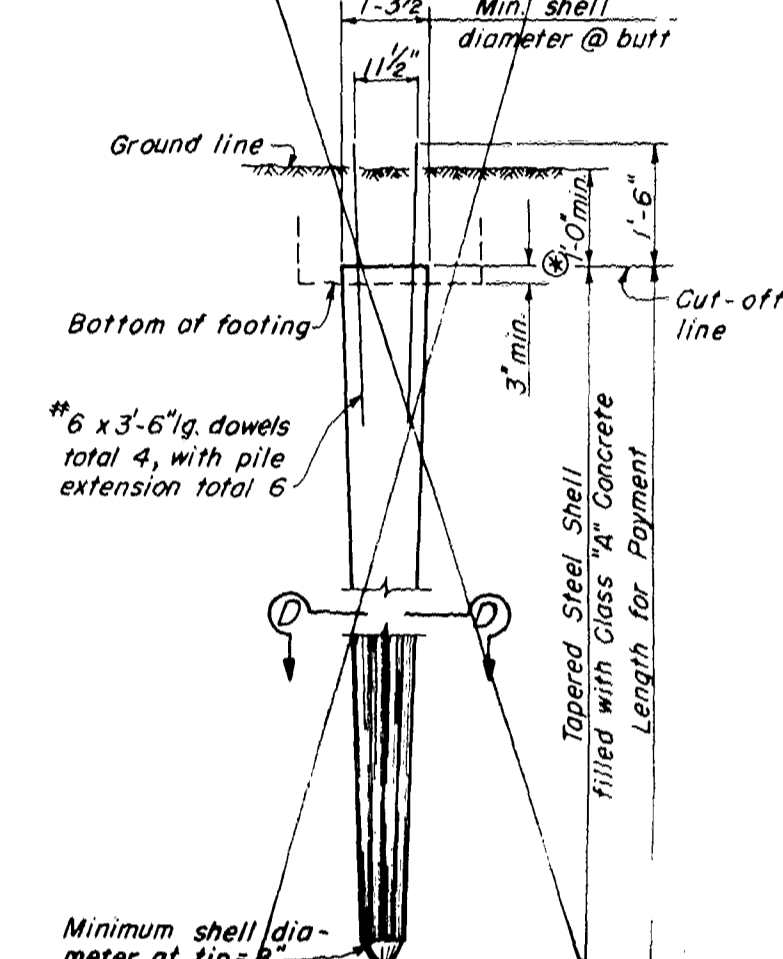
CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "V"



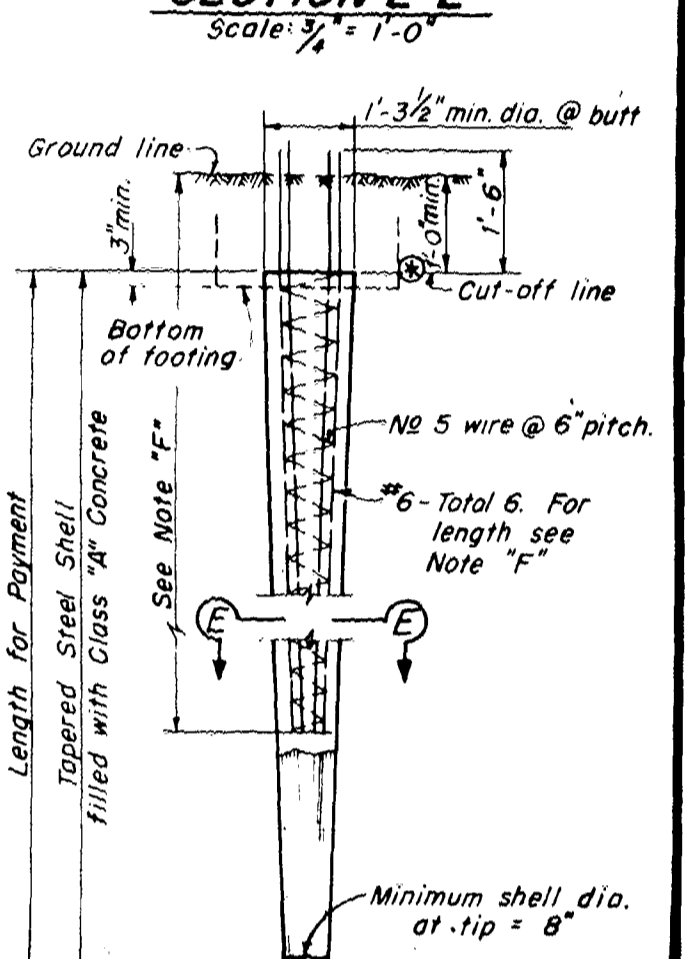
CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "W"



ALTERNATIVE TIP PRECAST CONCRETE PILE ALTERNATIVE "X"



CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "Y"



CAST-IN-PLACE CONCRETE PILE ALTERNATIVE "Z"

Minimum shell thickness = 9 gage. Contractor to be responsible for furnishing shells, including waterproof end closure, of sufficient strength to drive without distortion.

Type of end closure to be selected by contractor, diameter shall not be more than 1/4" larger than the pile shell.

Longitudinal reinforcement in the driven portion of Alternative "W" shall be prestressed to 10,000 lbs. per bar.

As an alternative to the reinforcement shown this pile may be prestressed by the use of steel strands to provide a total remaining force after losses of not less than 150,000 lbs. At no time shall the stress in the steel exceed 0.8 of its ultimate value.

Minimum shell thickness = 9 gage. Contractor to be responsible for furnishing shells of sufficient thickness to drive without distortion.

PILE NOTES

For Alternatives "W" and "X" the piles may be driven full length and cut off without extension or they may be extended as shown at the option of the Contractor.

When piles are extended the elevation of cut-off shall be located 1'-0" minimum below ground line, unless shown otherwise on the plans.

Note "F": In Alternatives "V" and "Z" the length of #6 bars, measured below ground line or bottom of footing, shall be either 1) a minimum of 1/3 penetration, or 2) 12", whichever is the greater.

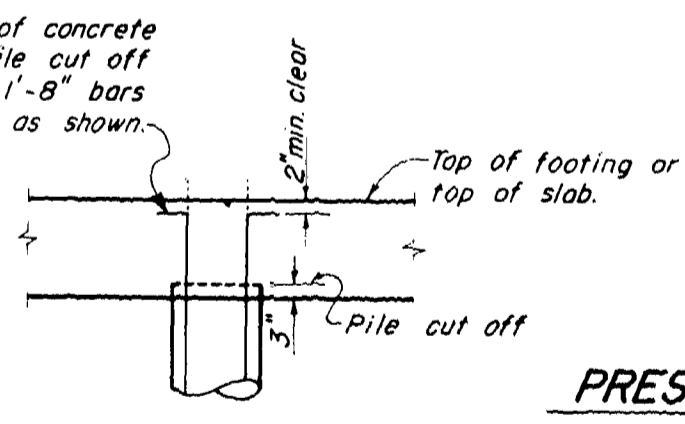
AS BUILT PLANS

Corrections By: _____
Date: _____

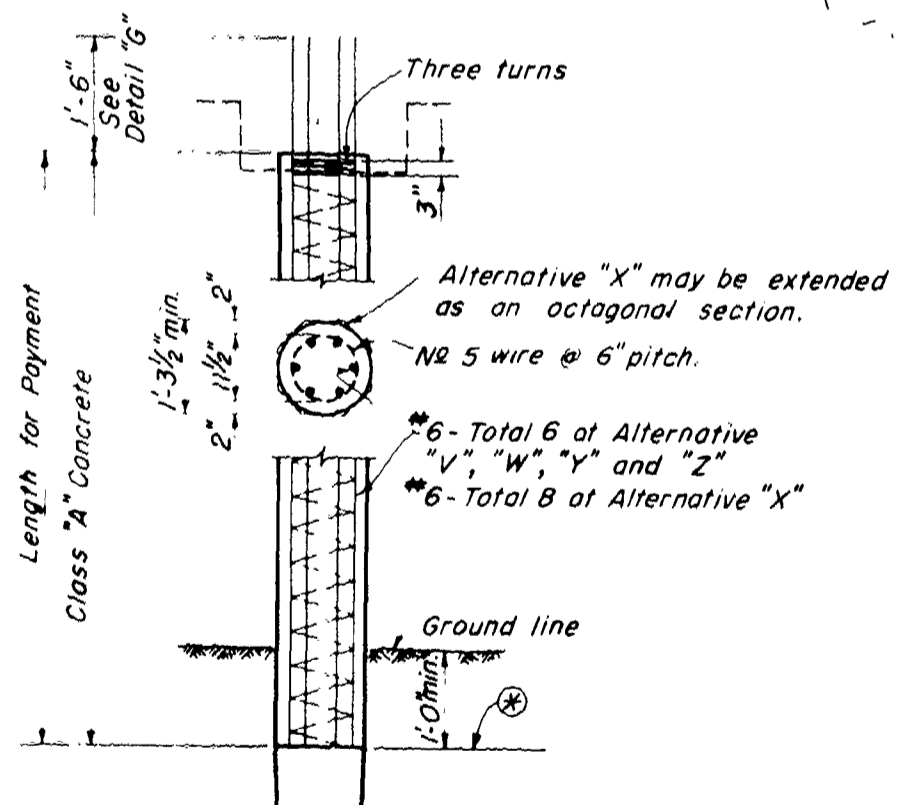
PRESTRESSING NOTE

All steel strand to be prestressed shall be high tensile cold-drawn stress relieved wire strand, of a diameter not to exceed 3/8", having an ultimate tensile strength of not less than 200,000 p.s.i. and an elongation at rupture of not less than 3% in 10".

DETAIL "G"



When depth of concrete above the pile cut off is less than 1'-8" bars shall be bent as shown.

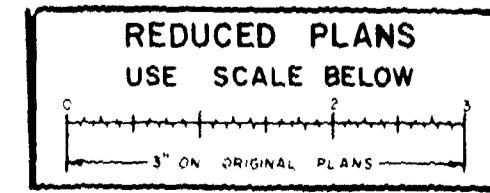


TYPICAL PILE EXTENSION
Typical except for Alternative "U"

BRIDGE DEPARTMENT		
DESIGN SECTION 9		
Project Designer	By	Checked
Chief Designer	By	Checked
DESIGN	By	Checked
DETAILS	By	Checked
QUANTITIES	By	Checked
SPECIFICATIONS	By	Checked
Approval Recommended by	By	Checked

STATE OF CALIFORNIA	
DEPARTMENT OF PUBLIC WORKS	
DIVISION OF HIGHWAYS	
PILE DETAILS	
Except as noted	SCALE: 1/2" = 1'-0"
BRIDGE: 65667	FILE: 65124-7

PREL DRAWING No. P- _____



1-27

STANDARD SOIL SURVEY SHEET

LIMITS *Sta. 599+00 to Sta. 1006+00*
MANNING AVENUE BETWEEN COLORADO AVE. TO McMILLIN GRADE

FEDERAL AID PROJECT NO. *5-217-2* DIST. *77* COUNTY *78* ROUTE *171* SEC. *1* SHEET NO. *1* TOTAL SHEETS *2*

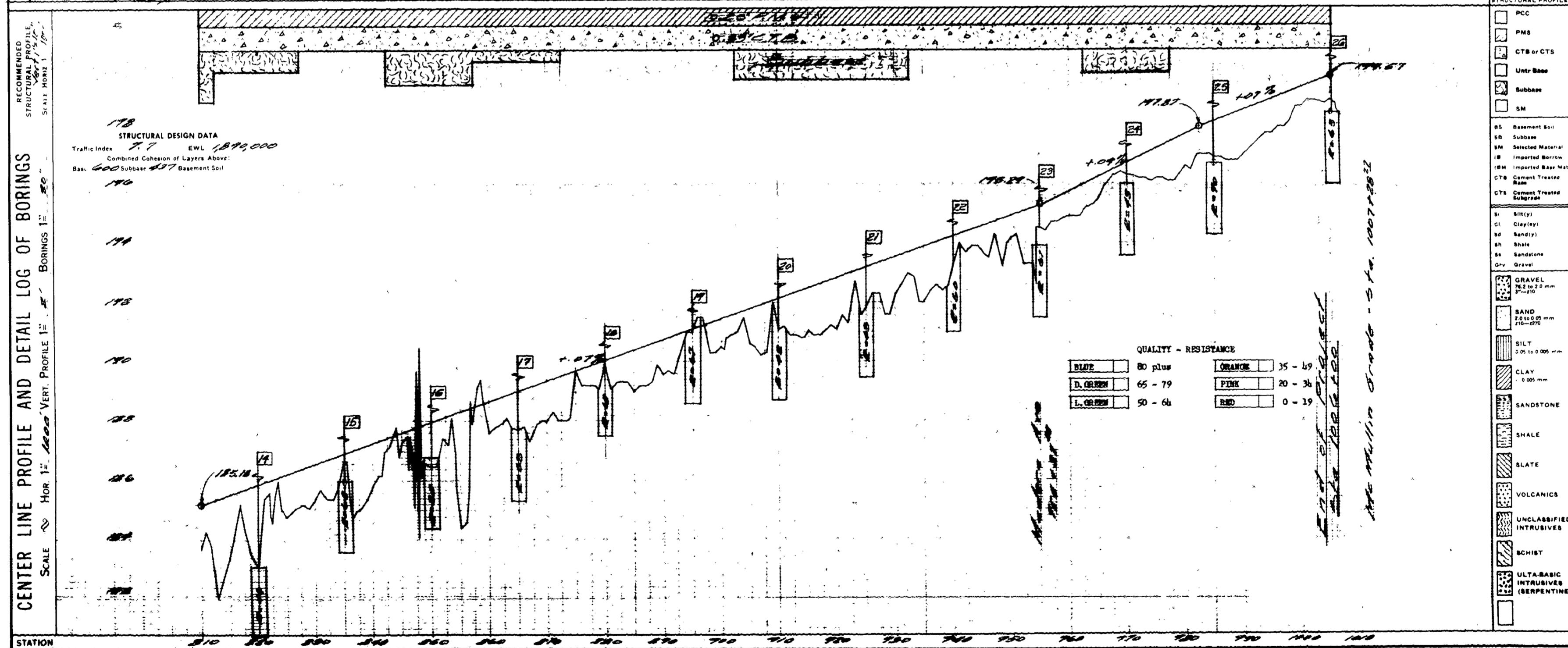
DATE	STANDARD SOIL SURVEY SHEET												FEDERAL AID PROJECT NO.			DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS							
<i>July 1, 1956</i>													<i>5-217-2</i>	<i>77</i>	<i>78</i>	<i>171</i>	<i>1</i>	<i>1</i>	<i>2</i>									
DESCRIPTION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
BORING OR SAMPLE NO.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
TEST NUMBER (D OR H)	V10000	V10001	V10002	V10003	V10004	V10005	V10006	V10007	V10008	V10009	V10010	V10011	V10012	V10013	V10014	V10015	V10016	V10017	V10018	V10019	V10020	V10021	V10022	V10023	V10024	V10025		
DATE SAMPLED	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56	5-7-56		
STATION	611.60	622.00	630.00	638.00	646.00	654.00	662.00	670.00	678.00	686.00	694.00	702.00	710.00	718.00	726.00	734.00	742.00	750.00	758.00	766.00	774.00	782.00	790.00	798.00	806.00	814.00	822.00	
LINE																												
DISTANCE FROM LINE (RT OR LT)																												
DEPTH OR ELEVATION	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0
TYPE OF MATERIAL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL	CL
1" SQUARE OPENING																												
SIEVE ANALYSIS																												
No. 4 (4750 MICRONS)																												
No. 10 (150)																												
No. 20 (75)																												
No. 40 (37.5)																												
No. 60 (250)																												
No. 100 (150)																												
No. 200 (75)																												
No. 425 (106)																												
No. 600 (250)																												
No. 840 (210)																												
No. 1060 (150)																												
No. 1490 (100)																												
No. 2000 (75)																												
No. 2980 (60)																												
No. 4250 (42.5)																												
No. 6000 (30)																												
No. 8400 (21)																												
No. 11900 (15)																												
No. 16500 (10)																												
No. 22400 (7.5)																												
No. 30000 (5)																												
No. 40000 (3.75)																												
No. 53000 (2.75)																												
No. 70000 (2)																												
No. 90000 (1.5)																												
No. 119000 (1.18)																												
No. 159000 (0.88)																												
No. 210000 (0.66)																												
No. 279000 (0.5)																												
No. 360000 (0.375)																												
No. 465000 (0.28)																												
No. 600000 (0.2)																												
No. 780000 (0.15)																												
No. 1020000 (0.12)																												
No. 1320000 (0.09)																												
No. 1700000 (0.075)																												
No. 2200000 (0.06)																												
No. 2850000 (0.05)																												
No. 3700000 (0.04)																												
No. 4800000 (0.03)																												
No. 6300000 (0.025)																												
No. 8200000 (0.02)																												
No. 10600000 (0.018)																												
No. 13800000 (0.015)																												
No. 18000000 (0.0125)																												
No. 23500000 (0.01)																												
No. 30500000 (0.008)																												
No. 40000000 (0.006)																												
No. 52500000 (0.005)																												
No. 69000000 (0.004)																												
No. 90000000 (0.003)																												
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STANDARD SOIL SURVEY SHEET

LIMITS Sta. 59400 To Sta 100600
MANNING AVE. FROM COLORADO AVE. TO McMULLIN GRADE.

FEDERAL AID PROJECT NO. 17-5 DIST. COUNTY ROUTE SEC. SHEET NO. TOTAL SHEETS

DATE	STANDARD SOIL SURVEY SHEET												FEDERAL AID PROJECT NO.	DIST.	COUNTY	ROUTE	SEC.	SHEET NO.	TOTAL SHEETS		
July 1, 1926													17-5	27	FRED	17	5	2	2		
DESCRIPTION	BORING NUMBER	14	15	16	17	18	19	20	21	22	23	24	25								
	TEST NUMBER (D OR H)	V15293	V15294	V15295	V15296	V15297	V15298	V15299	V15300	V15301	V15302	V15303	V15304	V15305	V15306	V15307	V15308	V15309	V15310		
SIEVE ANALYSIS	DATE SAMPLED	8-23	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24	8-24		
	STATION	820.100	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000	820.000		
COMPACTION	LINE																				
	DISTANCE FROM LINE (FT OR LY)																				
BIT MIX	DEPTH OR ELEVATION	2'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'	18.5'		
	TYPE OF MATERIAL	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5	S15.5		
CTB	1" SQUARE OPENING																				
	NO. 4 - 4750 MICRONS				100		100		100		100		100		100		100		100		
R VALUE	NO. 8 - 2300				21		21		21		21		21		21		21		21		
	NO. 10 - 1900				45		45		45		45		45		45		45		45		
CBR	NO. 30 - 550	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
	NO. 40 - 297	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	
STRUCTURAL PROFILE	NO. 200 - 75																				
	NO. 270 - 53																				
RECOMMENDED STRUCTURAL PROFILE	IN PLACE MOISTURE (DRY WT. %)																				
	IN PLACE MOISTURE (PERCENT)																				
LEGEND	MAXIMUM DENSITY (DRY WT. %)																				
	RELATIVE COMPACTION (PERCENT)																				
PLAN	UL. RATIO - TYPE OF BITUMEN																				
	STABILIZER VALUE																				
SECTION	WHEEL																				
	STABILIZER VALUE AFTER MVS																				
DETAIL LOG	CEMENT																				
	WATER																				
QUALITY - RESISTANCE	WATER																				
	WATER																				
STRUCTURAL DESIGN DATA	LIQUID LIMIT																				
	PLASTICITY INDEX																				
STRUCTURAL PROFILE	PLASTICITY INDEX																				
	SAND EQUIVALENT																				
STRUCTURAL PROFILE	R VALUE - STABILIZER	10	6.8	2.5	2.3	1.8	1.8	1.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
	MINIMUM																				
STRUCTURAL PROFILE	DENSITY																				
	THICKNESS OF COVER REQUIRED	1.6	1.3	1.1	1.0	0.8	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
STRUCTURAL PROFILE	BEARING RATIO AT 2'																				
	EXPANSION																				
STRUCTURAL PROFILE	MOISTURE																				
	MOISTURE																				



1-27

REDUCED PLANS
USE SCALE BELOW

3" ON ORIGINAL PLANS