INDEX OF SHEETS

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- " " 9 " " " Storm and Underdrain System
- " " 10 Standard Structures
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- " " 12 Road Connections
- " " 1-36 Cross Sections
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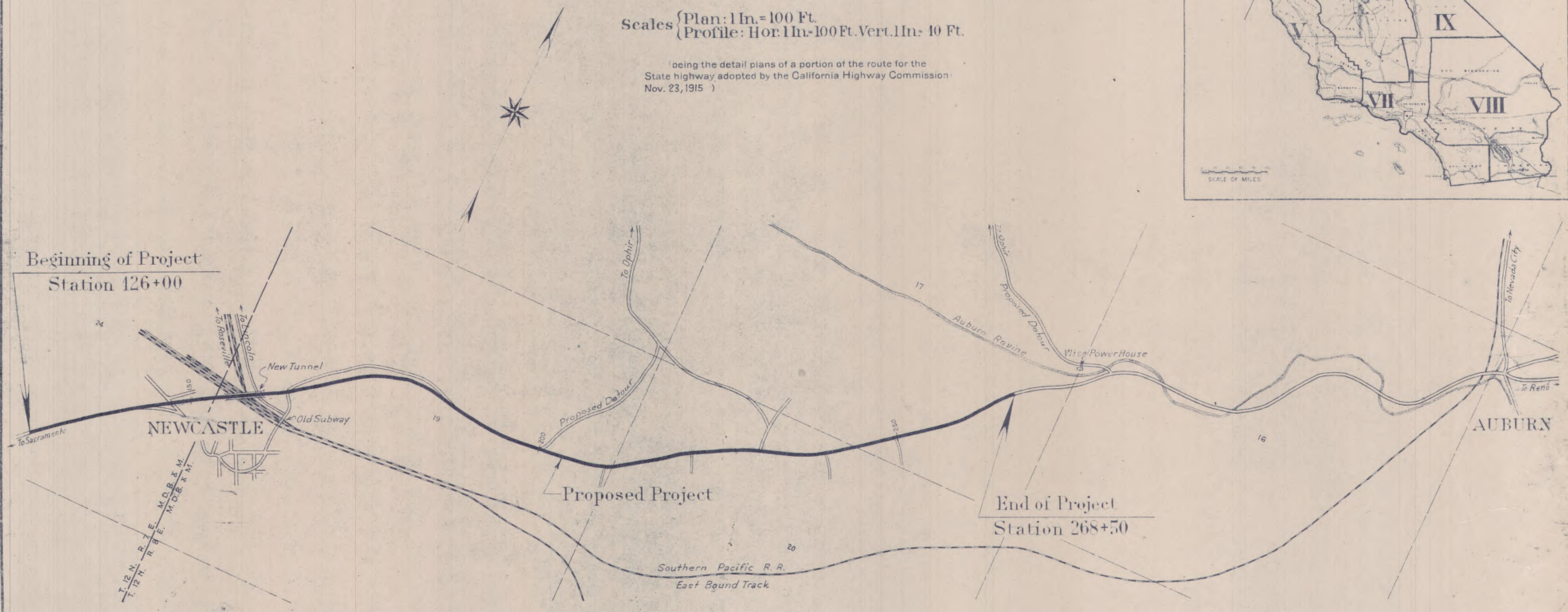
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PLAN AND PROFILE OF
STATE HIGHWAY
In Placer County, between Newcastle and Wise Power House

Scales {Plan: 1 In. = 100 Ft.
{Profile: Hor. 1 In. = 100 Ft. Vert. 1 In. = 10 Ft.

(being the detail plans of a portion of the route for the State highway adopted by the California Highway Commission Nov. 23, 1915)

DIST	COUNTY	ROUTE	SEC	SHEET NO.	TOTAL SHEETS
III	Pla	17	B	1	12



CONVENTIONAL SIGNS

- County Line
- City or Town Limits
- Township Line, Section Line, Grant Line — Township — Note whether Township, Section or Grant line
- Fence or Guard Rail
- Unfenced Property
- Right of Way Line
- Base or Survey Line
- Traveled Way
- Railway Tracks
- Bank or Retaining Wall
- Balance Wall
- Levee
- Culverts
- Drop Inlet
- Trolley Pole
- Power Pole
- Power Tower
- Telephone or Telegraph Pole
- Marsh
- Ledge
- Hedge

Scale

Net length of Project = 14,250 feet = 2.7 miles

AS BUILT PLANS
completed: 1932

CONT. 43EC5

August 8. 1931
C H Whitmore
District Engineer

Approved August 10. 1931
State Highway Engineer

Walter E Garrison
Director of Public Works

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
2	CAL	180-A-R	1932	6	13

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
III	PLA	17	B	5	12

CHWhitmore
Dist. Eng. Dist. III

Approved August 10, 1931
Fred Grumm
Engineer, Surveys and Plans.

Construct Fence
Sta. 185+~~68.7~~ 67.7 to Sta. 200+35. on Lt. ~~1466 lin. ft.~~
Sta. 185+~~68.7~~ 67.7 to Sta. ~~204+20~~ 192+72 on Rt. ~~1851 lin. ft.~~
J. S. Hirning Sta. 193+24 to Sta. 204+15 on Rt.

Remove Concrete
Sta. 183+00 to Sta. ~~185+50~~ 198+50 ~~26.5 C.Y.~~
~~Sta. 188+00 to~~ Sta. 197+50 167.9 C.Y.

Special ditches to be constructed
Sta. 185+63 to 191+30, 37' Lt. - 40 cy Str. Exc.
" 193+50 " 196+87, 43' " - 25 " " "
" 197+06 " 200+50, 37' " - 25 " " "
" 185+63 " 197+75, 43' Rt. - 90 " " "

T. 12 N., R. 8 E., M.D.B.&M.
Sec. 19
California Fruit Farms Corporation
Ho.
P.G.&E. Co. Ditch
To Lincoln
L=345.85'
S 84°31'E. 309.2'
Δ=46°05' R=430'
N 49°24'E. 102.1'
Δ=17°55' R=330' L=103.2'
N 31°29'E 50.3'
574.6'
N 55°10'E.
Double 36" CMP
5.5 x 5.5 R.M. Box
Creek
Single 6'x5'x80 RCB A3.70°
18"x30' CMP
Double 36"x126' CMP. A3.36°
Δ=2°26' R=2830' L=120.2'
N 1°25½'E 1532.1' to ¼ Cor.
Δ=10°15' R=1550' L=277.3'
N 73°32'W. 277.0'
Present traveled way
Δ=18°37' R=1450' L=471.1'
N 55°10'E. 1008.4'
Δ=5°44' R=1430' L=143.09'
Δ=12°57'30" R=1450' L=327.9'
Sta. 178+50
12"x16' C.M.P. Side Drain 21' Rt.
Pear Orchard
173+62.7 B.C.
R=1500' Δ=46°04' T=637.74' L=1206.0'
S 1°25½'W. 1056.5 to ¼ Cor.
+28.3
S 16°54'W.
185+70.54 E.C.
185+68.7 E.C. +67.65
John Goularte
Peach Orchard
House
Construct Rd. Appr. 1 cy Crushed Gravel or Stone Surfacing.
S 78°46'E 509.0'
Farmers Tel.
190+77.7 B.C.
Cherry
Plum Orchard
4" Iron Pipe (Irrig.)
Irrig. Ditch
R=2500' Δ=15°25' T=338.38' L=672.7'
Sta. 191+85 12"x16' C.M.P. Sewer Conn. on Lt.
Sta. 191+85 Place 12"x24' CMP - 20' Lt. 6 cy Str. Exc.
Shed
Construct Rd. Appr. 13 cy Crushed Gravel or Stone Surfacing 1 Walk Gate
Sta. 197+06 In place 8"x33' Iron pipe Plug & abandon.
Sta. 196+87 Place 8"x84' CMP - 1 St. HW. R.M. .50 cy Conc., 35 lbs. Steel 30 cy Str. Exc. (Irrigation Crossing) R.M. Control Box on Rt.
197+50.4 E.C.
Peach Orchard
Irrig. Ditch
Traveled Way
N 85°49'E 772.1'
Sta. 185+63, In place 18"x33' CMP - Extend 10' Lt. & 10' Rt. - ~~Move~~ 2 HW. R.M. 20 c.y. Str. Exc.
Construct Rd. Appr. 9 cy Crushed Gravel or Stone Surf.
Sta. 191+65 12"x54' C.M.P. DI on Lt.
PG&E
Sta. 189+70 Place 18"x46' CMP - 2 St. HW R.M. 1.32 cy Conc., 56 lbs. Steel 28 cy Str. Exc.
~~Sta. 190+10 Place 12"x20' CMP - 43' Rt. 4 cy Str. Exc.~~
Sta. 192+~~90~~ 72 Place 12"x24' CMP - 43' Rt. 8 cy Str. Exc.
Mixed Orchard
J. S. Hirning
Construct Rd. Appr. 31 cy Crushed Gravel or Stone Surf.
Sta. 197+50 12"x20' C.M.P. Side Drain 40' Rt.
Ditch
4" Iron Pipe (Irrig.)
N 86°41'E 663.7'
Sta. 193+50 Place 8"x86' CMP. 1 St. HW. .50 cy Conc., ~~35 lbs. Steel~~ 40 cy Str. Exc. (Irrigation Crossing.)
Sta. 197+13 In place 12"x32' CMP. Remove & salvage - Place 18"x56' CMP - 2 St. HW R.M. 1.32 cy Conc., 56 lbs. Steel 40 cy Str. Exc.
Sta. 197+25± Remove & relay 30' of 4" Iron Pipe ~~43' Rt.~~
B.M. Elev. 858.86 Nail in Bottom 24" Poplar 80' Lt. Sta. 172±
B.M. Elev. 894.70 Nail in 20" Live Oak 40' Lt. Sta. 182±
~~B.M. Elev. 894.47 Top of pin in C.H.C. Mon. 7' Lt. Sta. 181+73~~
~~B.M. No. 18 Elev. 911.39 R.R. Spike in 8" twin Oak 16' Rt. Sta. 185+00~~
~~B.M. No. 19 Elev. 939.19 Spike in Culvert Marker 15' Rt. Sta. 197+10~~
Width of Roadbed 48 ft.
Beginning of Grading Sta. 182+00
Profile Grade is Crown of Finished Pavement
Cut Slopes 1:1
Fill Slopes 1½:1
Width of Roadbed 36 ft.
874.82
880
890
900
910
920
930
940
950
938.46
+0.28%
400' V.C.
+5.22%
400' V.C.
+2.60%
400' V.C.
+1.00%
875.94
876.20
876.71
877.47
878.48
879.73
881.23
882.97
884.96
887.20
889.69
876.08
876.37
876.98
877.89
879.11
880.64
882.48
884.62
887.08
897.52
900.05
902.41
904.61
906.65
908.52
910.23
911.78
913.16
928.76
930.01
931.16
932.21
933.16
934.01
934.76
935.41
935.96
+63 In place 18"x33' CMP Extend 10' Lt. & 10' Rt.
+70 Place 18"x46' CMP
+65 12"x54' C.M.P.
+13 Place 18"x56' CMP
"B2" Line
Total Road Approach Exc. 227 cu. yds.
" " " Emb 94 " "
" Roadway Exc 2248 " "
" " Emb. 1184 " "
Rd. Appr. Exc. Emb.
Cu. Yds. Exc. Emb.
Sta.
2 31 78 90 59 1 60
21 70 30 0 8 31 33 1 30 199 558 565 317 195 130 60
63 9 44 189 245 178 127 120 55 5 23 47 30 49
1 2 3 4 5 6 7 8 9 180 1 2 3 4 5 6 7 8 9 190 1 2 3 4 5 6 7 8

AS BUILT PLANS
completed: 1932

180-AR 1932 7 13

DIST	COUNTY	ROUTE	SEC	SHEET No.	TOTAL SHEETS
III	PLA	17	B	6	12

C.H. Whitmore
Dist. Eng. Dist III

Approved August 10, 1931
Fred Grumm
Engineer Surveys and Plans

AS BUILT PLANS completed: 1932

T. 12 N., R. 8 E., M.D.B.& M.
Sec. 19
Sec. 20
J. S. Hirning
Peach Orchard
Sta 200± Ophir Detour
2"x 15' W.I.P.
Sta. 200+06 In place
12"x 30' CMP - Plug and abandon. Construct Rd. Appr. 19 cy Crushed Gravel or Stone Surf.
Sta. 201+25
6"x 18 W.I.P. S.D. 48' Lt.
County Road to Ophir
Sta. 202+91 In place
18"x 31' CMP - Plug and abandon.
Construct Fence
Sta. 185+68.7 to Sta 200+35 on Lt. 1466 lin. ft. Type C Alt. No 1
" 201+30 to " 212+50 " " 1120 " "
" 214+50 to " 230+05 " " 1555 " "
" 185+68.7 to " 204+20 " Rt. 1851 " "
" 209+90 to " 216+50 " " 660 " "
R=1600'
Δ=30°10'
T=431.21'
L=842.4'
S85°49'E
Irrig. Ditch
2" Water Pipe
~~Construct Rd. Appr.~~
Sta 199+20 Placed
80 lin. ft. new 2" water pipe with fittings - ~~2 cy Str. Exc.~~
Sta 198+70 Placed
12"x 30' CMP. 47' Rt. ~~3 cy Str. Exc.~~
Sta. 200+40 Place
72"x 18"x 42' CMP. 2 St. HW. Rt. R.M. ~~1.32 cy Conc., 56 lbs. Steel~~ ~~30 cy Str. Exc.~~
772.1'
N86°41'E, 663.7'
205+22.5 B.C.
Irrig. Ditch
Farmers Tel.
Sta. 205+29 to Sta. 208+50 Place
388 lin. ft. 6" W.I. Pipe with fittings and 3" blow off plug - 70 cy Str. Exc. Az 75° (See Cross Sections for details)
Plum Orchard R.M. Slope Pav.
N76°38'E, 249.0'
R=1540' Δ=20°59' L=564.0'
N32°44'W 63.5'
Mixed Orchard
S19°49'30"E 51.9'
Present In place S83°28'E, 158.2'
Construct Rd. Appr. 13 cy Crushed Gravel or Stone Surfacing
Traveled Way
R=630' Δ=47°22' L=520.8'
6" Pipe
J. S. Hirning
Special ditches to be constructed
Sta. 203+00 to Sta. 212+00, 37' to 53' Lt., 70 cy Str. Exc.
" 198+80 " " 202+90, 47' Rt., 30 " " "
" 212+00 " " 216+00, 37' " 37 " " "
~~" 223+00 " " 223+90, 37' to 25' " 8 " " "~~
Sta. 203+00 Place
18"x 68' CMP. 2 St. HW. R.M. 1.32 cy Conc., 56 lbs. Steel 28 cy Str. Exc.
~~Sta. 205+87 Place~~
~~12"x 36' CMP. 40' Rt.~~ ~~5 cy Str. Exc.~~
Sta. 207+15
4"x 98' W.I.P. & 6"x 12' W.I.P. R.M. Slope Pav.
N1°05'E Prop. Line
N0°08½'W 1589.2' to Sec. Cor.
S0°08½'E 3681.7' to Sec. Cor.
Guy Pole
L S28°27'E 50.0'
S15°44'W 73.4'
In place
N61°44'E 151.0'
Construct Rd. Appr. 26 cy Crushed Gravel or Stone Surfacing
Sta. 212+10 Place
12"x 30' CMP. 19' Rt. 5 cy Str. Exc.
Sta. 210+55 12"x 24' CMP. Side Drain 19' Rt.
Sta. 214+00
12"x 24' CMP S.D. 30' Lt.
213+64.9 E.C.
Sta. 214+30
8"x 50' P.M.P. U.D.
Construct Rd. Appr. No Grading 1 Drive Gate 32 cy Crushed Gravel or Stone Surfacing
S61°17'30"E, 47.4'
N39°53'E, 27.6'
R=1640' Δ=5°00'30" L=143.4'
Plum Orchard
Mary Armes
Sta. 214+50 Place
18"x 50' CMP. 2 St. HW. R.M. 1.32 cy Conc., 56 lbs. Steel 18 cy Str. Exc.
Sta. 214+87 In place
12"x 32' V.C. Pipe culv. Plug & abandon
N57°04'E, 810.1'
N55°39'E
N55°39'E, 235.1'
15" Siphon (P.G.& E.)
S89°40'E. Prop. Line
809.9'
P.G.& E. Co.
Mixed Orchard
N59°32'E, 180.4'
In place
S13°23'E, 55.9'
N53°53'E, 395.0'
5" Terra Cotta (Irrig.)
Pear Orchard
Sta. 218+11, In place
18"x 30' CMP. Extend 42' Lt. Move 1 HW 10 cy Str. Exc.
Sta. 212+00 to Sta. 213+20
8"x 110' P.M.P. U.D. 21' Rt.
J. B. Adams
Remove Concrete
Sta. 210+50 to Sta. 213+50 37.5 C.Y.
Sta. 220+25 to Sta. 224+25 65.2 C.Y.
Sta. 221+25 Place
8"x 100' CMP. 1 St. HW. 0.50 cy Conc., 35 lbs. Steel 35 cy Str. Exc. Remove old 5" T.C. Pipe (Irrigation Crossing)
2"x 130 W.I.P.
Sta. 220+15 Extend
spring on Lt. with 2"x 20' G.I.P. 12"x 18' CMP. 0.20 cy Conc. 2 cy Str. Exc. (See Cross Section Sheet No 19)
Cold Spring
Location of Cut Widening
Construct Rd. Appr. Crushed Gravel or Stone Surf.
Conc. Water Trough
S37°07'W, 85.0'
Fruit Shed
Oak
Water Pipe
Conc. Sidewalk
House
R=2960' Δ=2°46'40" L=143.5'
Peach Orchard
Construct Rd. Appr. 9 cy Crushed Gravel or Stone Surfacing 1 Drive Gate
J. B. Adams
Sta. 221+20 Place
12"x 30' CMP. Side drain 20' Rt. 5 cy Str. Exc.
221+74.8 B.C.
Sta. 222+50 Place
90 lin. ft. 2" water pipe with fittings. 6 cy Str. Exc. Remove old pipe R.M. Slope Pav.
Peach Orchard
Gate
Construct Rd. Appr. 3 cy Crushed Gravel or Stone Surf. 1 Drive Gate
30" Oak
N86°18'E, 79.5'
N64°00'E, 354.3'
6" Iron Pipe (Irrig.)
R=1870' Δ=4°36' L=150.1'
Mixed Orchard
Sta. 224+00 Place
12"x 20' CMP. 25' Rt. 3 cy Str. Exc.
Constr. Rd. Appr. Crushed Gravel or Stone Surf.
R=3000'
Δ=16°38'
T=438.54'
L=870.9'
Sta. 223+30, Az 110°, Place
6"x 90' W.I. Pipe Siphon with Fittings. 30 cy Str. Exc. Remove old pipe R.M. Blow off Box on Rt.
B.M. No. 20
Elev. 959.31
R.R. Spike in root of 6" Live Oak. 30' Rt. Sta. 211+18
B.M.
Elev. 943.55
Spike in F.I.X.E. Pole 50' Lt. Sta. 214+20
Standard 36' Roadbed.
Profile Grade is Crown of Finished Pavement.
Cut Slopes 1:1
Fill Slopes 1½:1
970
960
950
940
930
920
938.46
947.05
+1.00%
500' V.C.
-0.601%
400' V.C.
+0.40%
Grade of 6" W.I. Pipe Syphon
Blow-off (942.5)
Outlet (953.2)
Road Approach Grade on Rt.
-9.00%
945.46
946.92
947.30
947.60
947.82
947.96
948.02
948.00
947.90
947.72
947.46
945.05
944.78
944.57
944.43
944.35
944.33
944.37
944.48
944.65
Place 18"x 42' CMP
Place 18"x 68' CMP
Place 18"x 50' CMP
+11 In place 18"x 30' CMP Extend 42' Lt.
Obtain 1495 Cu. Yds. of Selected Material on Rt. Sta. 206 to Sta. 209+50
"B2" Line
Total Selected Mat'l. 1495 Cu. Yds.
Total Side Borrow 1341 cu. yds.
Total Road Approach Exc. 638 " "
" " " Emb. 193 " "
" Roadway Exc. 25,110 " "
" " Emb. 15,137 " "
Side Borrow on Lt 461 771 109
Rd. Appr. Exc. Emb.
Cu. Yds. Exc. Emb.
Sta.
30 67 67 8 20 42 331 51 200 3 3 3 6
10 13 1232 3211 4188 4081 3755 3214 1910 664 23 1 36 67 750 1194 664 97
294 639 968 1417 1669 1301 565 39 206 498 662 1306 1699 1856 1366 296 356
8 9 200 1 2 3 4 5 6 7 8 9 210 1 2 3 4 5 6 7 8 9 220 1 2 3 4 5

DIST. No.	STATE	PROJ. No.	YEAR	No.	SHEETS
2	CAL.	180-A-R	1932	8	13

DIST.	COUNTY	ROUTE	SEC	SHEET No.	TOTAL SHEETS
III	PLA.	17	B	7	12

C H Whitmore
Dist. Eng. Dist. III

Approved August 10, 1931
Fred Grumm
Engineer, Surveys and Plans

Removed Concrete
Sta. 230+50 to Sta. 239+~~25~~ 50, ~~146.7 C.Y.~~
Sta. 245+~~50~~ 25 to Sta. 248+~~50~~ 25 ~~35.8 C.Y.~~
Sta. 250+50 to Sta. 253+50 ~~24.8 C.Y.~~
T. 12 N., R. 8 E., M.D.B. & M.
Sec. 20
Sec. 17
J. B. Adams
Helen Dearborn
M.A. Hallbom
Peach Orchard
Grazing
Ditch
P.G.&E.
In place
N64°00'E. 354.35'
Farmers Tel.
Mixed Orchard
S60°28'30"E. 51.0'
Construct Rd. Appr. 22 cy Crushed Gravel or Stone Surf.
3" Water Pipe
County Road to Ophir
Sta. 232+70 In place
12"x 31' CMP - Remove & ~~salvage~~ - Place 18"x 48' CMP. 2 St. HW - 1.32 cy Conc., 2 R.M. HW. ~~56 lbs. Steel, 40 cy Str. Exc.~~
Pear Orchard
Traveled Way
N72°17'E.
346.1'
230
233+91.8 B.C.
Sta. 235+~~70~~ 77 Place
82 lin. ft. 6" W.I. Pipe with Fittings - Remove & dispose 4" Iron pipe 25 cy Str. Exc.
R=2200'
Δ=20°18'
T=393.86'
L=779.5'
Ho.
Tank Ho.
Construct Rd. Appr. 6 cy Crushed Gravel or Stone Surf.
30" Oak
Fruit Shed
Barn
Sta. 230+05
12"x66' C.M.P. P.G.&E. Over Flow
4"x 87 W.I.P. Pressure line
1 R.M. H.W. Lt.
R=2960'
Δ=4°05'
L=211.0'
Irrig. Ditch
230+45.7 E.C.
S26°43'E.
J. B. Adams
R=3000'
Δ=16°38'
T=438.54'
L=870.9'
Construct Rd. Appr. No Grading 3 cy Crushed Gravel or Stone Surf.
Sta. 232+10 to Sta. 233+35 8"x 118' Under Drain
4" Iron Pipe (Pressure)
Pear Orchard
Sta. 226+65 In place
24"x 31' CMP - Extend 40' Lt. 1 R.M. H.W. Lt.
~~Move 1 HW - 12 cy Str. Exc.~~
Special ditches to be constructed
~~Sta. 227+60 to Sta. 230+10, 37' Rt., 19 cy Str. Exc.~~
" 230+40 " " 232+70, 35-30 Lt., 26 " " "
" 232+~~70~~ 30 " " 243+75, 37' Rt., 90 " " "
Sta. 230+~~40~~ 25 Place
8"x 82' CMP. ~~1 St. HW~~
Remove & dispose old wooden culv. - 0.50 cy Conc. 35 lbs. Steel - 40 cy Str. Exc. (Irrigation Crossing)
Anna Marie Madden
Zita Madden Pike
Sec. 17
Sec. 20
S 89° 26½' W. 2960.2' to Sec. Cor.
Construct Fence
Sta. 2~~14~~+50 to Sta. 230+05 on Lt.; 1555 lin. ft.
" 232+50 to " 268+50 " 3600 " "
" ~~228+30 to " 246+25 " Rt 1795 " "~~
" 230+15 " " 244+15 " "
" 250+25 " " 268+50 " "
241+71.3 E.C.
N12°W. Prop. Line
Sta. 246+00 Place
8"x 82' CMP - 1 St. HW. 0.50 cy Conc., 35 lbs. Steel -22 cy Str. Exc. R.M. Stone Hw. (Irrigation Crossing)
Grazing
Plum Orchard
Ho.
N 48° W.
190+
Oak Trees Grazing
Sta. 247+60
5"x 30' C.M.P. Irr. Sleeve
Private Road
Plum Orchard
Construct Rd. Appr. 4 cy Crushed Gravel or Stone Surf. - 1 Drive Gate
N 51° 59' E. 1647.5'
240
250
N51°59'E 398.4'
S0°52'E. 50.2'
N54°25'E. 29.0'
S36°07'30"E. 41.25'
In place
18.0
Irrig. Ditch
Construct Rd. Appr. 8 cy Crushed Gravel or Stone Surfacing
Pear Orchard
R=8030'
Δ=5°04'
L=710.1'
Construct Rd. Appr. 5 cy Crushed Gravel or Stone Surf.
Grazing
Pear Orchard
Prop. Line S.89°20'E.
N 89° 26½' E. 2403.9' to Sec. Cor.
Sta. 240+85 In place
12"x 24' CMP - ~~10' Rt. Clean & relay~~ 37' Rt. - 8 cy Str. Exc.
Sta. 243+75 In place
18"x 37' V.C. Pipe Culv. - Remove & dispose - Place 18"x 60' CMP R.M. 2 ~~St.~~ HW - 1.32 cy Conc. - 56 lbs. Steel 35 cy Str. Exc.
Sta. 249+77 In place 1 R.M. H.W. Lt.
24"x 31' CMP - Extend 32' Lt. Move 1 HW - 14 cy Str. Exc.
Sta. 250+15
Double 12"x 40' C.M.P. Side Drain 75' Rt. 1 R.M. L.H.W.
Private County Road
S39°50'E +28
Sta. 250+15 In place
12"x24' Side drain - ~~39' Rt. - Use as exists.~~
Removed
M.A. Hallbom
~~B.M. Elev. 941.23 Nail in Culvert Marker 40' Rt. Sta. 226+62~~
226+30 " " 230+05 37' Lt.
B.M. Elev. 963.20 Nail in 40" Oak 65' Lt. Sta. 237+00
~~B.M. No. 22 Elev. 955.85 Nail in Pear Tree 27' Rt. Sta. 243+30~~
~~Old B.M. No. 31 Elev. 952.96 Nail in Oak Snag 20' Lt. Sta. 249+40~~
B.M. Elev. 955.51 Nail in P.G.&E. Pole 40' Lt. Sta. 251+60
Standard 36' Roadbed
Profile Grade is Crown of Finished Pavement
Cut Slopes 1:1
Fill Slopes 1½:1
AS BUILT PLANS completed 1932
970
960
950
940
930
920
947.05
947.25
947.60
947.84
948.27
948.80
949.42
950.13
+0.40%
300' V.C.
+1.52%
956.97
957.65
958.19
958.57
958.81
958.89
958.83
300' V.C.
-0.28%
956.31
956.16
956.00
955.98
955.65
955.78
955.67
955.55
955.50
955.31
955.22
955.09
300' V.C.
-0.38%
-0.575%
952.73
953.90
+65 In place 24"x 31' CMP Extend 40' Lt.
+70 Place 18"x 48' CMP
+75 Place 18"x 60' CMP
+77 In place 24"x 31' CMP Extend 32' Lt.
Total Road Approach Exc. 33 cu. yds.
" " " Emb. 145 " "
Roadway Exc. 2418 " "
" Emb. 11570 " "
"B2" Line
Rd. Appr. Exc.
Emb.
81
33
31
33
Cu. Yds. Exc. 130 271 39 67 276 306 363 426 357 23 1 15 6 5 47 86
Emb. 1423 1846 1588 1370 808 164 1 67 42 3 2 241 551 627 644 637 486 220 130 127 83 340 151 19
Sta. 5 6 7 8 9 230 1 2 3 4 5 6 7 8 9 240 1 2 3 4 5 6 7 8 9 250 1 2

2	CAL.	180-A-R	1932	9	13

DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
III	PLA	17	B	8	12

C H Whitmore
Dist. Eng. Dist. III

Approved August 10, 1931
Fred Grumm
Engineer, Surveys and Plans.

T. 12 N., R. 8 E., M.D.B. & M.

Sec. 17

Construct Fence
Bet. Sta. ~~232~~ +50 & Sta. ~~268~~ +50 on Lt. 3200 lin. ft.
" 252+65 to " 262+00 on Rt. 935 " "
" 266+00 to " 268+50 " Lt. 250 " "
Construct lawn fence
Sta. 262+00 to Sta 266+00 Lt. & Rt. 800 lin. ft.

Remove Concrete
Sta. 250+50 to Sta. 253+50 24.8 C.Y.
Sta. 254+25 to Sta. 268+50 232.2 C.Y.

Special ditches to be constructed
Sta. 257+15 to Sta. 263+75, 43' Lt., 60 cy Str. Exc.
~~" 264+47 " " 268+60, 57' " , 75 " " "~~
" 254+35 " " 261+35, 37' Rt., ~~60 " " "~~
~~" 264+47 " " 268+50, 37' 53' Rt., 50 " " "~~
~~" 264+50 " " 258+50 37' Lt.~~
" 264+47 " " 265+69 on Lt.

Standard 36' Roadbed
Profile Grade is Crown of Finished Pavement.
Cut Slopes 1:1
Fill Slopes 1½:1

Rd. Appr. Exc.										5			89				
Rd. Appr. Emb.	86		29									48	48				
Cu. Yds. Exc.	4			95	414	662	569	525	336	199	46	22	79	113	93	59	78
Cu. Yds. Emb.	130	294	278	57						39	236	338	86	137	470	680	87

Total Road Approach	Exc.	94	cu. yds.
" " "	Emb.	211	" "
" Roadway	Exc.	3294	" "
" "	Emb.	2832	" "

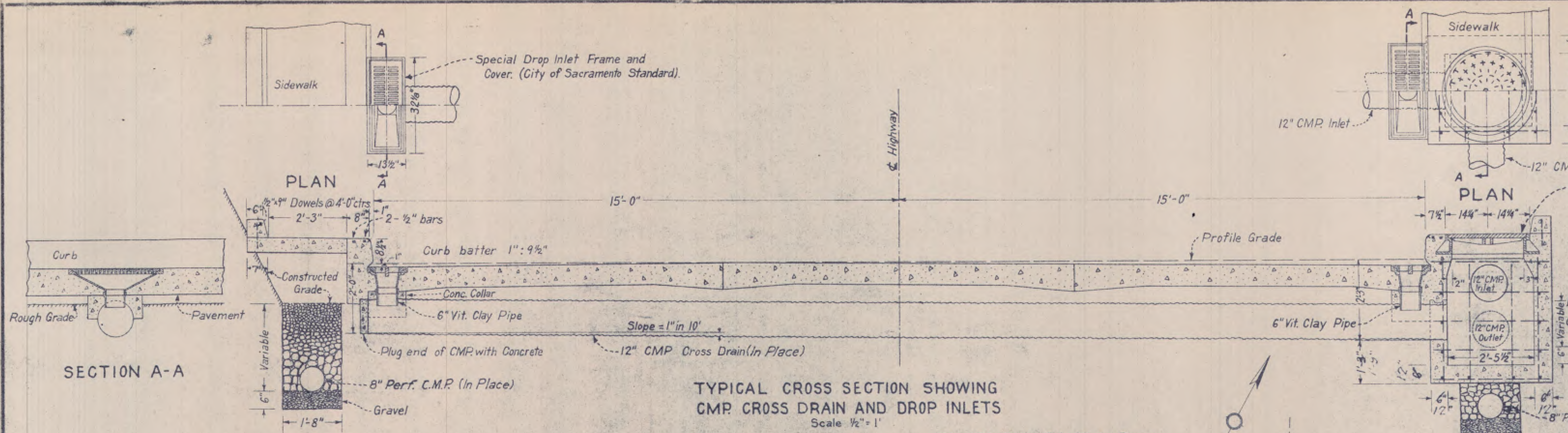
AS BUILT PLANS
completed: 1932

DIST. No.	STATE	PROJ. No.	YEAR	No.	SHEETS
2	CAL	180-A-R	1932	10	13

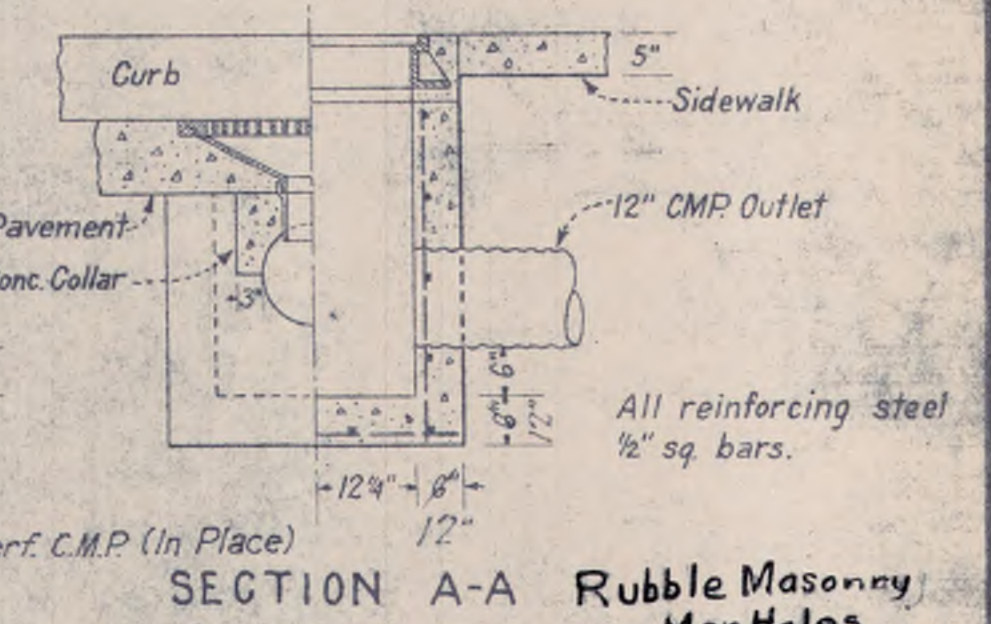
DIST.	COUNTY	ROUTE	SEC.	SHEET No.	TOTAL SHEETS
III	PLA.	17	B	9	12

CHW Gilmore
Dist. Eng. Dist.

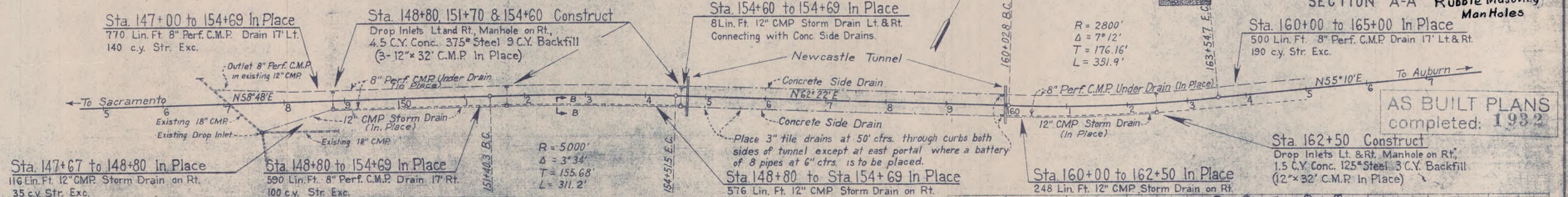
Approved August 10, 1931
Fred Grumm
Engineer, Surveys and Plans.



TYPICAL CROSS SECTION SHOWING
CMP. CROSS DRAIN AND DROP INLETS
Scale ½" = 1'



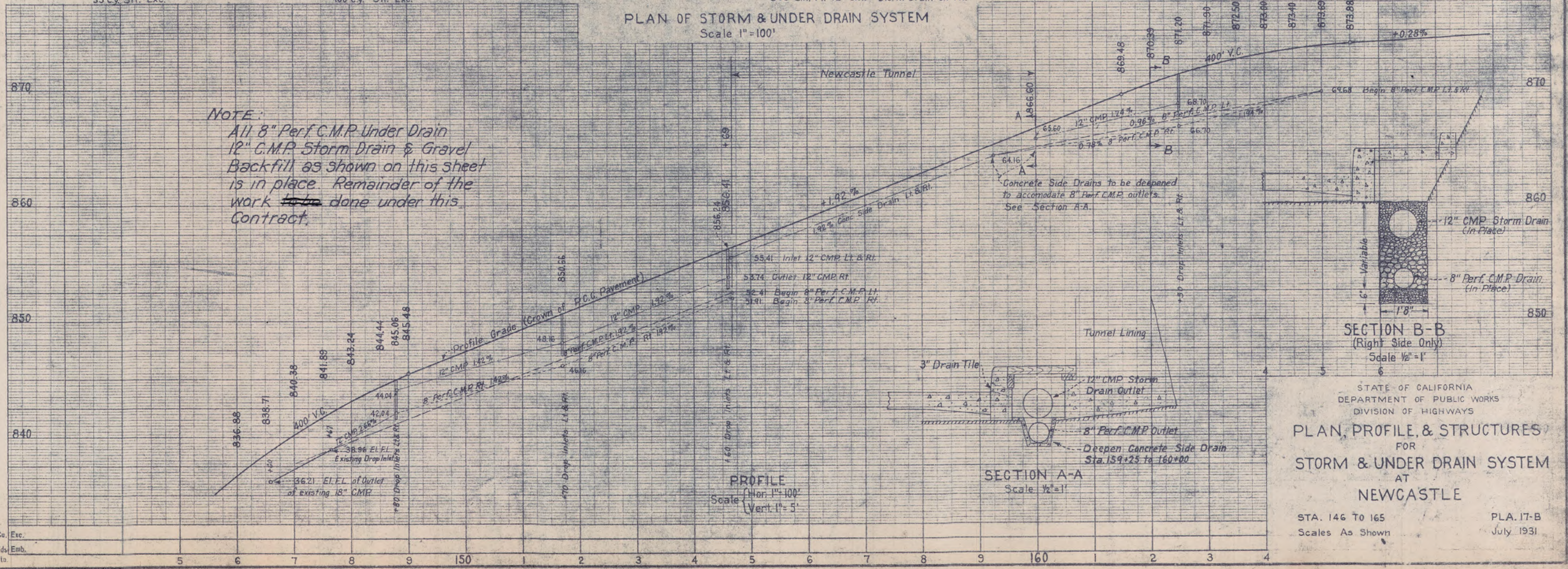
SECTION A-A Rubble Masonry Man Holes


Sta. 147+00 to 154+69 In Place
770 Lin. Ft. 8" Perf. C.M.P. Drain 17' Lt.
140 c.y. Str. Exc.
Sta. 148+80, 151+70 & 154+60 Construct
Drop Inlets Lt. and Rt., Manhole on Rt.,
4.5 C.Y. Conc. 375# Steel 9 C.Y. Backfill
(3-12"×32' C.M.P. In Place)
Sta. 154+60 to 154+69 In Place
8 Lin. Ft. 12" CMP Storm Drain Lt. & Rt.
Connecting with Conc. Side Drains.
Newcastle Tunnel
Outlet 8" Perf. C.M.P. in existing 12" CMP.
8" Perf. CMP. Under Drain (In Place)
To Sacramento
N58°48'E
Existing 18" CMP.
Existing Drop Inlet
Existing 18" CMP.
12" CMP Storm Drain (In Place)
150
B
B
Sta. 147+67 to 148+80 In Place
116 Lin. Ft. 12" CMP. Storm Drain on Rt.
35 c.y. Str. Exc.
Sta. 148+80 to 154+69 In Place
590 Lin. Ft. 8" Perf. C.M.P. Drain 17' Rt.
100 c.y. Str. Exc.
151+40.3 B.C.
R = 5000'
Δ = 3°34'
T = 155.68'
L = 311.2'
154+51.5 E.C.
Concrete Side Drain
N62°22'E
Concrete Side Drain
Place 3" tile drains at 50' ctrs. through curbs both sides of tunnel except at east portal where a battery of 8 pipes at 6" ctrs. is to be placed.
Sta. 148+80 to Sta. 154+69 In Place
576 Lin. Ft. 12" CMP Storm Drain on Rt.
160+02.8 B.C.
R = 2800'
Δ = 7°12'
T = 176.16'
L = 351.9'
163+54.7 E.C.
160
8" Perf. C.M.P. Under Drain (In Place)
12" CMP Storm Drain (In Place)
Sta. 160+00 to 162+50 In Place
248 Lin. Ft. 12" CMP Storm Drain on Rt.
Sta. 160+00 to 165+00 In Place
500 Lin. Ft. 8" Perf. C.M.P. Drain 17' Lt. & Rt.
190 c.y. Str. Exc.
N55°10'E
To Auburn
Sta. 162+50 Construct
Drop Inlets Lt. & Rt. Manhole on Rt.,
1.5 C.Y. Conc. 125# Steel 3 C.Y. Backfill
(12"×32' C.M.P. In Place)

AS BUILT PLANS
completed: 1932

PLAN OF STORM & UNDER DRAIN SYSTEM
Scale 1" = 100'

NOTE:
All 8" Perf. C.M.P. Under Drain
12" C.M.P. Storm Drain & Gravel
Backfill as shown on this sheet
is in place. Remainder of the
work ~~to be~~ done under this
Contract.



PROFILE
Scale {Hor. 1" = 100'
Vert. 1" = 5'

SECTION A-A
Scale ½" = 1'

SECTION B-B
(Right Side Only)
Scale ½" = 1'

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

PLAN, PROFILE, & STRUCTURES
FOR
STORM & UNDER DRAIN SYSTEM
AT
NEWCASTLE

STA. 146 TO 165
Scales As Shown

PLA. 17-B
July 1931

Drawn by W.A.J.
Traced by G.R.Kerr 7-16-31
Checked by W.A.J.