FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
3	COLO	NRH 259 C	1	

INDEX OF SHEETS

1 Title Sheet and Sketch Map
2 Typical Cross Section of Improvement and Summary of Quantities
3 Bridge at Sta 638+95
4 Standard Concrete Culverts M 104 D
5 " " Siphon and Drain M 104 A
6 " " Headwalls for Culverts M 102 F
7 " " Fence and Marker Posts M 611 F
8 " Superelevation for Curves M 1 A
9-15 Plan and Profile Sheets
16-82 Cross Section Sheets

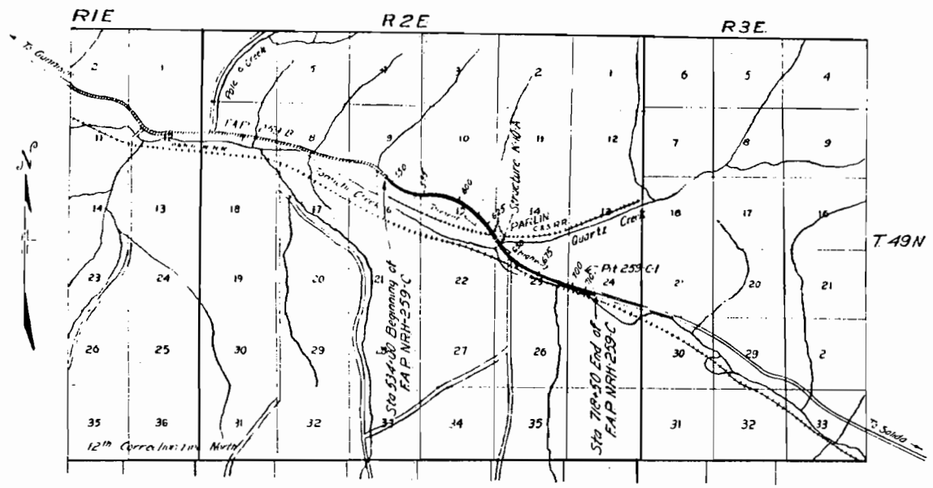
COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
FEDERAL AID PROJECT N.R.H. 259-C
STATE HIGHWAY NO. 6
GUNNISON COUNTY

SCALES

ON PLAN, 1 IN. - 100 FT.
ON PROFILE 1 IN. - 100 FT. HORIZONTAL
1 IN. - 10 FT. VERTICAL

GRADE LINE ON PROFILE IS SHOWN AS GRADE OF FINISHED ROAD
GROSS LENGTH OF PROJECT 18430 FT = 3.494 MI
NET LENGTH OF PROJECT 00 00



Scale 1" = 1 Mile

CONVENTIONAL SIGNS

- Center Line of Improvement
- Right of Way Line
- Section Line
- Fence
- Telephone Poles

—NOTE—

It is recommended that bidders on this project go over the plan details with one of the following field representatives of this department.

J.J. Vandemoer Div. Engr, located at Grand Junction
Homer Gray Res. Engr. " " Gunnison

RECOMMENDED FOR APPROVAL 9/25/33
J. E. Mahoney
ASSISTANT ENGINEER

APPROVED
Chas. Tait
STATE HIGHWAY ENGINEER

[redacted]
DIST. ENG. BUREAU PUBLIC ROADS

[redacted]
CHIEF ENG. BUREAU PUBLIC ROADS

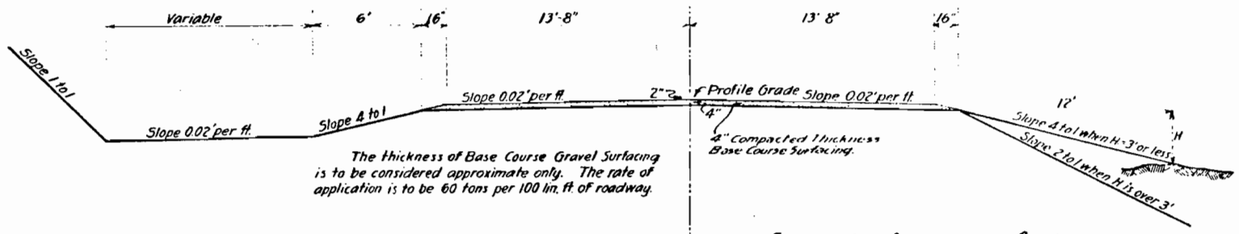
[redacted]
DIRECTOR BUREAU PUBLIC ROADS

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	YAH 259-C	2	

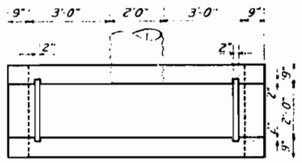
Revised 9-30-33-3BL
" 10-10-33-REL

TYPICAL CROSS SECTION OF IMPROVEMENT AND SUMMARY OF QUANTITIES

TYPICAL SECTION



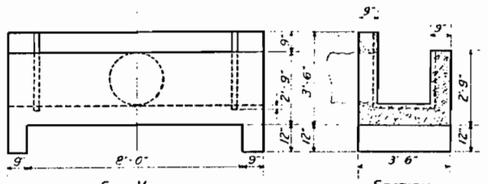
The thickness of Base Course Gravel Surfacing is to be considered approximate only. The rate of application is to be 60 tons per 100 lin. ft. of roadway.



PLAN

DETAIL OF DIVERSION BOX STA. 634+60

Quantity of Class "A" Concrete = 2.4 Cu. Yds.



SIDE VIEW SECTION

GENERAL NOTES

This project is to be constructed in conformity with the Standard Specifications of the Colorado State Highway Department adopted January 1, 1930

All quantities on preliminary plans are to be considered approximate only.

All roadway excavation required to construct the project is to be obtained as indicated on the Plans. Quantities involved beyond the limits of ditch as shown on the Typical Section, either noted as "Borrow" on the Plans or as "Embankment" on the Structure List are to be classified and paid for as "Unclassified Excavation". These quantities are to be staked as part of the original excavation, at locations indicated on the plans. Any slope stakes beyond the limits of the typical ditches are subject to change by the Engineer to fit embankment requirements actually encountered during construction.

All curves are to be superelevated in accordance with methods shown on the Standard Superelevation Sheet.

The entire project is to be cleared for the full width of the right of way and the cost thereof is to be included in the lump sum price for "Clearing and Grubbing the Entire Project". Approximate location and character of clearing and grubbing required is indicated in notes on plans.

Pipe cross culverts are to be provided with standard headwalls on the inlet ends, unless otherwise indicated.

The detour for this project lies along the present road as indicated on the Title Sheet. Where the new work is on the present traveled roadway the contractor shall, at his own expense, so prosecute construction that traffic can readily pass over the road.

Except as limited by the special provisions, power equipment may be used on this project.

SUMMARY OF APPROXIMATE QUANTITIES

No.	Item	Unit	Quantities Roadway	Bridges	Total
10a	Clearing and Grubbing Entire Proj't.	Lump Sum	•		•
11a	Removing 4 Structures	" "	•		•
11b	Removing Buildings Sta. 630 ±, Sta. 634 ±	" "	•		•
12a	Removing Fence	Lin. Ft.	5900		5900
13c	Unclassified Excavation	Cu. Yd.	102000		102000
14a	Dry Rock Excavation for Structures	" "	350	25	375
14b	" Common " " "	" "	350	350	700
14c	Wet Rock " " "	" "	350	25	375
14d	" Common " " "	" "	350	310	660
18a	Station Yard Overhaul	Sta. Yd.	561000		561000
18b	Yard Mile "	Yd. Mi.	6000		6000
30x	Gravel or Crushed Rock Surfacing	Ton	11100		11100
42a	Untreated Timber	M ft. b.m.		0.2	0.2
46a	Class "A" Concrete	Cu. Yd.	185	76.0	261.0
46b	" "B" "	" "	33	318.0	351.0
47	Reinforcing Steel	Lb.	11800	9900	21700
48	Structural "	"		58300	58300
53b	18" Corrugated Metal Culvert Pipe	Lin. Ft.	1152		1152
53c	24" " " " "	" "	990		990
53d	30" " " " "	" "	116		116
53f	48" " " " "	" "	118		118
75a	Galvanized Barbed Wire Fence	Lin. Ft.	12100		12100
75b	Gates in " " "	Each	3		3
78	Project Marker	"	1		1
79	Right of Way Markers	"	27		27
84	Removal of disused Bridge	Lump Sum		•	•
85c	24" Siphon Trash Guards	Each	4		4
89	Drain Pipes	"		6	6
95a	Combination Wire Fence	Lin. Ft.	20350		20350
95b	Driveway Gates	Each	17		17
96c	24" Corrugated Metal Siphon Pipe	Lin. Ft.	177		177
102	4" Galv. Riveted Drain Pipe	Lin. Ft.	500		500
103	4" Cast Iron Valve and Valve Box	Each	2		2

GATES

Sta.	Barbed Wire	Driveway
535+00	1 R.	
537+90	1 L.	
567+50		2
577+50		1 R.
581+50		2
589+80		2
600+25		2
609+00		2
617+75		2
628+00		2
641+00		1 L.
644+00		1 R.
714+50	1 L.	
Totals	3	17

R.O.W. MARKERS

Sta.	No.
564+00	2
590+85	2
609+20	2
633+30	4
640+70	2
649+30	4
669+50	2
684+10	2
690+20	2
698+60	3
718+50	2
Total	27

FENCING

Location	Side	Remove	Build Barbed Wire	Build Comb. Wire
534+00 to 564+00	L & R		6000	
564+00 to 631+50	-			13500
564+00	x	110		
608+20	x	190		
612+30	x	130		
623+00	x	115		
628+75	x	160		
631+50	x	140		
633+50 to 635+50	R	210		250
640+25 to 645+75	R	350		550
638+00 to 718+50	L			6050
638+00 to 718+50	R		6050	
638+10	x	170		
683+75 to 718+50	R+x	4125		
Totals		5900	12050	20350

SELECTED MATERIAL

Source	Location	Cu. Yds.	Sta Yds O.H.	Yds Mi O.H.
535+00 to 537+50	537+50 to 538+50	36	0	0
514+50 to 573+50	572+50 to 573+50	36	0	0
578+50 to 580+00	578+50 to 580+00	84	0	0
603+50 to 606+50	606+50 to 609+50	168	170	0
609+00 to 613+00	613+00 to 611+03	224	450	0
Fit Lt of 710+00	635+50 to 688+50	1878	24410	850
Totals		2466	25030	850

LIST OF STRUCTURES

Location	Description	Removals	Excavation Cu. Yds. Unclass'd.	Emb.	Struct'l	Concrete Cu. Yds. Class A	Class B	Reinforcg. Steel Lbs.	Corrug. Metal Pipe Lin. Ft. 18"	24"	30"	48"	24" Galv. Siph. Pipe Lin. Ft.	Miscellaneous
535+00	Road Approach			70	*									
538+50	C.M.P. Culvert		5		12					54				
541+65	" "				18					52				
545+30	" "				20					58				
546+50	Remove Culvert	1 Culv.												
547+50	C.M.P. Culvert, 1 Hdwl.		10		12		1.7			46				
551+75	" "				25					54				
554+50	" "				21					56				
560+50	" "		20		26							62		
567+50	" Side Drain and Approaches			80					30					
568+08	" Culvert and Ditch, 1 Hdwl.		15		20		1.7			48				
570+00	" " " "		10		20		1.7			48				
574+28	24"x 82' C.M.P. Siphon H=8'		50		230	4.6		260					91	(2) 24" Tr. Gds, Valv. Drain Pipe, 200'
577+25	C.M.P. Culvert, 1 Hdwl.		10		30		1.1		48					
577+50	Road Approach			50										
578+65	C.M.P. Culvert, 1 Hdwl.		10		10		1.1		46					
579+50	6'x7'x32' Conc. Bx. Culv.		35		150	68.0		4095						
580+00	C.M.P. Culvert, 30° Skew, 1 Hdwl.		50		15		1.1		74					
581+50	C.M.P. Side Drain, Approach			200					42					
582+00	" Culvert, Ditch, 1 Hdwl.		50		10		1.1		62					
587+90	" Side Dr. and Culvert, 1 Hdwl.		30		15		1.1		46	24				
589+80	" " " , 2 Approaches			200					30					
590+00	" Culvert, 1 Hdwl.		15		15		1.1		44					
592+50	" " "		100		2		1.7			46				
595+95	" " " , Ditch		20		10		1.1		58					
597+00	" " " "		30		10		1.1		46					
598+75	" Culvert				5					44				
600+25	" Side Drain, Approach			40	2				30					
600+40	" Culvert, 45° Skew, 1 Hdwl.		50		15		1.1		64					
601+18	" " " " 1 "		50		15		1.1		64					
603+40	" "				2					58				
605+00	" " , 1 Hdwl., Ditch		75		10		1.1		42					
607+75	24" x 76' C.M.P. Siphon - H=10		150		200	4.6		260					86	(2) 24" Trish. Gds, Valve. Drin. Pipe, 300'
609+00	C.M.P. Side Drain, Road Approaches		75	50					72					
610+50	" Culvert, 1 Hdwl.		5		10		1.7			42				
614+00	" " 1 "		200		35		1.7			48				
617+75	2 C.M.P. Side Drains, Approach		50	70					80					
625+50	6'x7'x39' Conc. Bx. Culv.		15		30	74.5		4622						
627+50	C.M.P. Culvert, 30° Skew, 1 Hdwl		10		10		1.1		54					
628+00	" Side Drain, Rd. Approach			200					26					
630+25	" Culvert,		50		70		5.0				56			
634+60	" " and Removal. Ditch	1 Culv.	10		15		1.7			48				
636+00	2 C.M.P. Side Drains and Approaches			190					68					
638+95-9+57	BRIDGE (Quantities in Summary)													
641+00	C.M.P. Side Drain and Road Approach			200					38					
642+00	Extend Culvert in place				10					24				
644+12	C.M.P. Side Drain, Rd. Approach			100					36					
645+85	C.M.P. Culvert. Removal	1 Str.	10		25		2.3				46			
650+20	Road Approach. Remove Bldg.	1 Bldg.		200										
650+75	4'x 3'x 36' Conc. Bx. Culv. and Removal	1 Culv.	350		70	30.2		2460						
655+75	Removal	1 Shed												
658+00 to 661+50	Excavation for Drain Ditch		200											
661+50	C.M.P. Culv., Excavation, Back-fill		400	50	2						70			
618+00	" " " "		200	100	5				52					
691+00	" " " "		200	100					76					
697+75	C.M.P. Culvert		25		10				56					
714+50	2 - Side Drains, Approach			230					52					
711+50-8+25	Ditch Change		150											
718+00	C.M.P. Culvert		20		15				56					
634+60	Diversion Box on Rt.				15	2.4								
718+50	Project Marker and Appr. to Proj.			1500										1 Proj. Mkr.
Totals			2755	3630	1242	184.3	32.4	11697	1152	990	116	118	177	

* Structural Excavation is estimated to be 50 % Common and 50 % Rock each of which is 50 % Wet and 50 % Dry

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	NRH-259C	3	

REVISED 10-10-33 BY WRM ADDED BARS IN WINGS
10-24-33 - TGC, STRINGER SEAT DIMENSIONS

½ SECTIONAL ELEVATION ALONG ℄ OF ROADWAY

END ELEVATION OF WINGWALL-C-C

SECTION A-A

½ PLAN

SECTION B-B

TYPICAL SECTION OF HANDRAIL D-D

SECTIONAL ELEVATION ALONG ℄
GENERAL LAYOUT

CONCRETE SLAB AND HANDRAIL CAMBER DIAGRAM

DETAILS OF BEARINGS

Detail of Roller Guide on top & bottom Expn. Plates.

REINFORCMENT BAR LIST

MARK	SIZE	No.	LENGTH	BEND	BENDING DIAGRAM	TOTAL WGT.
B	½"ø	58	8'-1"	IV		
D	½"ø	14	28'-6"	I	BEND No. I	
E1	¾"ø	82	31'-7"	I		
E2	¾"ø	196	29'-2"	II	BEND No. II	
E3	¾"ø	48	29'-4"	III		
H1	½"ø	76	1'-0"	V		
H2	½"ø	16	4'-5"	I		
H3	½"ø	16	13'-2"	I	BEND No. III	
H4	½"ø	16	11'-8"	I		
H5	½"ø	4	4'-0"	I		
H6	½"ø	8	5'-0"	I		
H7	½"ø	8	1'-3"	I	BEND No. IV	
W	¾"ø	48	5'-0"	VI	BEND No. V	

25898 LIN. FT. OF ½" ø BARS @ 0.668 LBS. PER LIN. FT. = 1730 LBS.
9059.3 LIN. FT. OF ½" ø BARS @ 0.850 LBS. PER LIN. FT. = 7700 LBS.
240.0 LIN. FT. OF ¾" ø BARS @ 1.502 LBS. PER LIN. FT. = 360 LBS.
PLUS 1½% FOR OVERRUN = 110 LBS.
TOTAL = 9900 LBS.

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	SUPERSTRUCTURE 60 FT. SPAN I-BEAM	SUBSTRUCTURE 2-ABUTMENTS	TOTAL
14-a	DRY ROCK STRUCTURAL EXCAVATION	CU. YDS.		25	25
14-b	" COMMON " "	" "		350	350
14-c	WET ROCK " "	" "		25	25
14-d	" COMMON " "	" "		310	310
42-a	UNTREATED TIMBER	MFT. BM.		.125	.125
46-a	CLASS "A" CONCRETE	CU. YDS.	56.8	19.2	76.0
46-b	" "B" "	" "		3180	3180
47	REINFORCING STEEL	LBS.	8750	1150.0	9900
48	STRUCTURAL "	"	58,070	230	58,300
89	DRAIN PIPES, 3 IN. BY 2 FT.	EACH	6		6
84	REMOVING DISUSED BRIDGE	LUMP SUM			
	½ IN. EXPANSION JOINT MATERIAL	LIN. FT.	25		25

GENERAL NOTES

ALL WORK SHALL BE DONE ACCORDING TO THE STANDARD SPECIFICATIONS OF THE COLORADO STATE HIGHWAY DEPARTMENT, ADOPTED JAN. 1, 1930.
ALL CONCRETE SHALL BE CLASS "A," EXCEPT AS NOTED.
ALL EXPOSED SURFACES SHALL BE RUBBED FREE OF FORM MARKS.
ALL EXPOSED CORNERS, EXCEPT ON HANDRAILS, SHALL BE BEVELED TO A 2" FACE.
GIRDERS, FLOOR SLABS AND CURB SHALL BE POURED MONOLITHICALLY.
ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS POURED.
FOOTINGS IN ROCK SHALL BE POURED OUT TO THE ROCK AND NOT FORMED.
THICKNESS OF FLOOR SLAB SHOWN INCLUDES ¼" CONCRETE WEARING SURFACE.
ALL REINFORCING BARS SHALL BE ROUND OR SQUARE, PLAIN OR DEFORMED AS SHOWN AND NOTED.
ALL REINFORCING BARS SHALL BE TAGGED WITH THE STATION NUMBER AND LETTER DESIGNATION.
SECONDARY BARS WHEN SPLICED SHALL BE GIVEN A LAP OF 30 DIAMETERS.
MAIN BARS SHALL NOT BE SPLICED.
SOUNDINGS AND DEPTH OF FOOTINGS SHOWN ARE ACCORDING TO THE BEST AVAILABLE DATA. IF ESSENTIALLY DIFFERENT CONDITIONS ARE ENCOUNTERED, THE BRIDGE ENGINEER WILL INSPECT AND DETERMINE IF REDESIGN IS NECESSARY.
FORMS FOR CONCRETE SURFACES EXPOSED IN THE FINISHED WORK SHALL BE CONSTRUCTED OF SHIPLAP OR TONGUED AND GROOVED LUMBER S.S.S.

LOADING DATA.
LIVE LOAD = A. A. S. H. O. AUG. 1926 CLASS A (H-15)
DEAD LOAD = ABBUMER 18 LBS PER 30 FT. ADDITIONAL WEARING SURFACE, WHICH INCLUDES THE ½ IN CONCRETE MONOLITHIC WEARING SURFACE.

COLORADO
STATE HIGHWAY DEPARTMENT
60 FT. SPAN I-BEAM BRIDGE
CONCRETE FLOOR, 25 FT. CLEAR ROADWAY
GRAVITY ABUTMENTS
ACROSS QUARTZ CREEK
STA. 638+95.0 TO 639+57.35
NEAR PARLIN SEC. 15 T. 49 N R. 2-E

DESIGNED BY A.F.H	APPROVED BY Ed Bailey
MADE BY T.G.C.	BRIDGE ENGINEER
CHECKED BY T.G.C.	DATE: Sept. 22nd 1933

STRUCTURE NO. K-10-A

FED ROAD DIST NO.	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO.	NRH-259-C	9	

All pole lines encroaching on construction are to be moved by owners.

Location of fencing, gates, and right of way markers are listed on sheet 2.

Sta 534+00 END OF F.A.P. 259B
BEGINNING OF F.A.P. NRH 259-C
Project Marker in Place

535+00, Regd 70 Cu Yds Emb. for Road Approach on Right

PC 534+78.4

538+50, Regd 24"-54' CMP Culvert & 5 Cu Yds Exc for ditch

541+65 Regd 24"-52' CMP Culvert

545+30 Regd 24"-58' CMP Culvert

546+50 Remove Culvert

547+50 Regd 24"-46' CMP Culvert & 10 Cu Yds Exc for ditch

551+75 Regd 24"-54' CMP Culvert

PT 553+40.9

554+50 Regd 24"-58' CMP Culvert

Tel. Pole #2061

Tel. Pole #2060

557+00 P.O.T.
1425' to Sec Cor of Secs 9,10,15 & 16

S. 89° 00' E.

560' ±

580+50 Regd 48"-62' CMP Culvert & 20 Cu Yds Exc. for ditch

N.W. 1/4, N.E. 1/4, Sec. 16, T 41 N, R 21 E, N.M.P.M. Vacant

N.E. 1/4, N.E. 1/4, Sec. 16, T 41 N, R 21 E, N.M.P.M. Vacant

S. 14° 30' E.

PI 545+67.7

Present Road

Sta 534+00 to 564+00, Regd Light Sage Brush Clearing

PLAN
SURVEYED
PLOTTED
NOTE BOOK ALIGNMENT CHECKED
NO. RT. OF WAY CHECKED
BY Strang
DATE 1933

PROFILE
SURVEYED
PLOTTED
NOTE BOOK GRADES CHECKED
NO. STRUCTURE NOTATIONS CHKD.
BY
DATE

7930
7920
7910
7900

+1.76%
PI 27.64
24.20
26.16
400' V.C.
25.6
18.96
200' V.C.
17.87
PI 17.72
11.10
-1.24%
FL 161.7
FL 135.
-0.62%
14.00
400' V.C.
13.82
FL 109
FL 102
PI 12.76
19.76
+1.5%
FL 174
21.16
PI 24.76
24.06
400' V.C.
24.96
+0.1%
FL 128

	530	535	540	545	550	555	560
Incl Exc			32.80		13.97		17.83
Emb			32.80		13.97		17.83
Borrow			37.70		16.70		26.30
SY O.H.							
YM O.H.							
Bor Avail							

PLATE 9—PLAN-PROFILE

FED ROAD DIST. NO.	STATE	FED AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
5	COLO.	259-C	1	

NW¼ NE¼ SEC. 16
T49N. R2E. N.M.P.M.
(VACANT)

NE¼ NE¼ SEC. 16
T49N. R2E. N.M.P.M.
(VACANT)

PROJECT MARKER ON FAP 259-B

PC-554178.4

STA-534100 BEGINNING OF F.A.R.-259-C

Δ=74°30'
D=4°L
T=1089.3
L=1862.5
R=1432.5

Present Road

100' R of W

PT-555141.09

Tel. Pole #2061

Pole #2060

S 89°-00' E

PI-545+67.27

535+00 to 537+50 – 100% Common

(537+50
538+75
75% Rock)

538 + 75 to 560 +00 100% Common.

Sta-534+00 Beginning of F.A.P.-259-C

+1.72%

-1.29%

-0.62%

+1.50%

+0.10%

400' V.C.

240' V.C.

400' V.C.

400' V.C.

R.C. 27.44

R.C. 17.72

R.C. 12.76

Rock

Rock

7940 35 30 25 20 15 10 5 7900

530 1 2 3 4 535 6 7 8 9 540 1 2 3 4 545 6 7 8 9 550 1 2 3 4 555 6 7 8 9

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
3	COLO	NHH-259-C	10	

N.E.¼ N.E.¼ Sec.16
T.49N. R.2E. N.M.P.M.
Vacant

N.W.¼ N.W.¼ Sec 15
T.49 N. R.2E NMPM.
Benj. H. Corbitt

N.E.¼ N.W.¼ Sec 15
T.49 N. R.2E. NMPM.
Benj. H. Corbitt

N.

300+50 Rep 48"x62' C.M.P. Culvert
& 20 Cu Yds Exc for ditches

567+10 Repl. 18"x30' Side drain & 80 Cu Yds Emb for Road Approach right & left

568+08 Repl 24"x48' C.M.P. Culvert, 1 Hdwl. & 15 Cu Yds Exc for ditch

570+00 Repl. 24"x48' C.M.P. Culvert 1 Hdwl & 10 Cu Yds. Exc for ditches

574+35 Repl 24"x82' Siphon H-8; 50 Cu Yds Exc. 2 Trash Guards, Drain Valve, Valve Box and 200 Lft of 4" Galv. Metal Drain Pipe.

577+25 Repl 18"x48' C.M.P. Culvert 1 Hdwl 10 Cu Yds Exc for ditches

577+80 Repl. 50 Cu Yds Emb for Road Approach on right

579+50 Repl. 6'x7'32' C.B.C. & 35 Cu Yds. Exc.

580+00 Repl 18"x74' C.M.P. Culvert 30° Skew, 1 Hdwl & 50 Cu Yds. Exc for ditch

PI. 580+15.0

581+30 Repl 18"x42' Side Drain & 200 Cu Yds Emb for Approach on left

582+00 Repl 18"x62' C.M.P. Culvert, 1 Hdwl. & 50 Cu Yds Exc for ditch

587+90 Repl 24"x24' Side Drain under 18"x96' C.M.P. Culvert, 1 Hdwl & 30 Cu Yds Exc for ditch

590+00 Repl 18"x44' C.M.P. Culvert, 1 Hdwl, & 15 Cu Yds Exc for ditch

560 | 565 | 570 | 575 | 580 | 585 | 590

S. 89° 00' E.

S. 74° 00' E.

PC 576+97.8

PT 582+47.8

PC 589+32.9

+50 -50

+50 -50

578+65 Repl 18"x48' C.M.P. Culvert 1 Hdwl & 10 Cu Yds Exc for ditches

Δ 15° 00' R.
D 2° 0'
T 286.5
L 527.2
R 730.0

589+80 Repl 18"x30' C.M.P. Side Drain on left & 200 Cu Yds Emb for 2 Road Approaches

Clearing and Grubbing:
567+50 to 568+50, Light Sage Brush
570+00 to 573+50, Light Sage Brush

Sta. 582+00 to 587+70, Light Sage Brush Clearing Required.

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.
GRADES CHECKED
R.R. X-ING
PT. OF WAY CHECKED
STRUCTURE NOTATIONS CHKD.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
BY
DATE

7950 | 7940 | 7930 | 7920 | 7910

FL 515
PI 51.7
FL 530
FL 495
FL 493
FL 488
PI 48.01
FL 468
FL 473
FL 438
FL 368
PI 41.72
FL 380
FL 351
PI 42.16
FL 333
FL 378
FL 335
PI 25.1
FL 325

+2.2%
-0.24%
+1.3%
-0.11%
-1.12%
+0.1%

200' V.C.
600' V.C.

	560	565	570	575	580	585	590
Incl Exc							
Emb.							
Borrow	2060	2060			3687	3687	918
S.Y.U.H.			5230				
Y.M.O.H.					8620		75 993
Bor Avail							

PLATE 1 - PLAN-PROFILE O.Y.R.& R.E. STANDARD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO	259-C	2	

NE¼ NE¼ SEC. 16
T49N, R2E, N.M.P.M.
VACANT

NW¼ NW¼ SEC. 15
T49N, R2E, N.M.P.M.
BENJ. H. CORBITT

NE¼ NW¼ SEC. 15
T49N, R2E, N.M.P.M.
BENJ. H. CORBITT

SE¼ NW¼ SEC. 15
T49N, R2E, N.M.P.M.

Ditch Excav. 15 Cubic Yds.

560 565 570 575 580 585 590

S89°-00'E

Fence

P.I.-580+75.0

70°

P.C.-576+97.8

Δ = 15°-00'
D = 2° R
T = 337.2
L = 750.0
R = 2865.0

P.I.-584+47.8

S74°-00'E

P.C.-589+52.9

560+00 to 572+50 100% Dry Common

(572+50 to 573+50 100% rock (Soft rock))

573+50 to 590+00 — 100% Common — (low meadow land)

+0.10%

+2.20%

-0.79%

-1.13%

3 Soft Ground

600' V.C.

200' V.C.

P.C.-571

P.T.-577.2

7960 55 50 45 40 35 30 25 7920

560 1 2 3 4 5 6 7 8 9 570 1 2 3 4 5 6 7 8 9 580 1 2 3 4 5 6 7 8 9 590

PLATE 1 — PLAN — PROFILE O. P. R. & B. E. STANDARD

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO.	NFH-259-C	11	

PLAN — SURVEYED, PLOTTED, NOTE BOOK, NO., ALIGNMENT CHECKED, RT. OF WAY CHECKED, BY, DATE

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, NO., GRADES CHECKED, B. M.'S NOTED, STRUCTURE NOTES CHKD., BY, DATE

S 74° 00' E. 50'

P.C. 589+52.8

590

595

600

605

610

615

620

P.T. 610+49.6

S. 32° 04' E.

P.I. 600+50.8

595+35 Road 18'-58' CMP Culv. 30° Skew Hdwl. & 20 Cu Yds Exc. for ditches.

592+50 Road 24'-48' CMP Culvert & Hdwl. & 100 Cu Yds Exc. for ditches

597+00 Road 18'-46' CMP Culvert, 1 Hdwl. & 90 Cu Yds Exc. for ditch

598+75 Road 24'-44' C.M.P. Culvert

600+25 Road 18'-30' Side Drain & 40 Cu Yds Emb for Road App on left

Δ 41° 36' R.
D 2°
R 2865.0
T 1097.9
L 2096.7

600+40 Road 18'-64' C.M.P. Culvert 45° Skew 1 Hdwl. & 5 Cu Yds Exc. for ditches

602+18 Road 18'-64' CMP Culvert 45° Skew Hdwl. & 50 Cu Yds Exc. for ditch

603+40 Road 24'-58' CMP Culvert

605+00 Road 18'-42' CMP Culvert, 1 Hdwl. & 75 Cu Yds Exc. for ditch

607+75 Road 24'-76' Siphon H.10'. 150 Cu Yds Exc. 2 Trash Guards, Drain Valve, Valve Box. and 300 lin. ft. 4" Galv. Metal Drain Pipe.

609+00 Road 2-18'-36' Side Drains & 50 Cu Yds Emb for Road App Rt & Lt.

610+50 Road 24'-42' C.M.P. Culvert, 1 Hdwl. & 5 Cu Yds Exc. for ditch

614+00 Road 24'-48' C.M.P. Culvert, 1 Hdwl. & 200 Cu Yds Exc. for ditch

617+75 Road 2-18'-40' Side Drains & 70 Cu Yds Emb & 80 Cu Yds Exc. for Road Approaches Right & Left

S.E. ¼ N.E. ¼ Sec. 15 T. 49 N. R. 2 E. N.M.P.M. W.J. Collard

S.E. ¼ N.W. ¼ Sec. 15 T. 49 N. R. 2 E. N.M.P.M. Ben. J.H. Corbin

S.W. ¼ N.E. ¼ Sec. 15 T. 49 N. R. 2 E. N.M.P.M. Ben. J.H. Corbin

N.E. ¼ S.E. ¼ Sec. 15 T. 49 N. R. 2 E. N.M.P.M. W.J. Collard

Clearing and Grubbing:
603+00 to 605+00 Willows
605+00 to 607+50 Sage Brush

612+50 to 623+00 Light Sage Brush

P.I. 65.00

7980
7970
7960
7950
7940
7930

400' V.C.
600' V.C.

+3.6%
-0.586%
+3.68%

P.I. 52.88
P.I. 39.69
P.I. 61.08

FL 341
FL 437
FL 464
FL 502
FL 521
FL 524
FL 501
FL 537
FL 640
FL 537
FL 578
FL 679

47.88
39.04
45.68
54.05
59.91
62.63
68.44
73.96
77.74
67.00

	595	600	605	610	615	620
Incl. Exca.		93	272	767	7,982	7,901
Emb.					5	
Borrow			143,790			
S.Y.O.M.			2,520			
V.M.O.H.						
Roc. Avail.						

PLATE 1 - PLAN-PROFILE B.P.R. & A.E. STANDARD

FED. AID PROJ. NO.	STATE	SHEET NO.	TOTAL SHEETS
	COLO 259-C	3	

SE¼ NE¼ SEC. 15
T49N, R2E. N.M.P.M.
W.J. COLLARD

NE¼ SE¼ SEC. 15
T49N. R2E. N.M.P.M.
W.J. COLLARD

PI-600+50.8

100' R O W

590

595

600

605

610

615

Δ = 41°-56'
D = 2°R
T = 1097.9
L = 2096.7
R = 2865.0

574.00 E

RC-589+52.9

PT-610+49.6

Fence

532.04 E

Road

GRAVEL P.T.

SE¼ SW¼ SEC. 15
T49N. R2E. N.M.P.M.
BENJ. H. CORBITT

SW¼ NE¼ SEC. 15
T49N. R2E. N.M.P.M.
BENJ. H. CORBITT

NW¼ SE¼ SEC. 15
T49N. R2E. N.M.P.M.

590 to 603 — 100% Common

603+00 to 617+00 50% Rock

617+00 to +30+00 100% Common

PLAN

NOTE BOOK NO.

DATE

BY

7930

80

70

60

50

40

30

7940

-4.18%

+5.60%

+0.63%

+3.68%

-6.00%

PC 36.62

PC 63.18

PC 85.00

400' VC.

400' VC.

400' VC.

600' VC.

Soft Ground

Soft Ground

Rock

Rock

Rock

Rock

Rock

Cut 0.5' below grade and backfill with selected material.

590 1 2 3 4 5 6 7 8 9 600 1 2 3 4 5 6 7 8 9 610 1 2 3 4 5 6 7 8 9 620

PLATE 1—PLAN—PROFILE O. P. R. & R. E. STANDARD
PETTIS & EBERT CO. DENVER

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLO.	HRM-879-5	12	

PLAN — SURVEYED / PLOTTED / NOTE BOOK / NO. — ALIGNMENT CHECKED / RT. OF WAY CHECKED — BY — DATE

PROFILE — SURVEYED / PLOTTED / NOTE BOOK / NO. — GRADES CHECKED / M.S.H. NOTED / STRUCTURE NOTATIONS CHKD. — BY — DATE

N.E¼ S.E¼ Sec. 15 T.49N. R.2E. N.M.P.M. W.J. Collard

625+50 Road 6"-7.39° C.B.C. & 15 Cu Yds Exc.

627+50 Road 18"-54' C.M.P. Culvert 30° Skew 1 Helvl. 10 Cu Yds Exc. for ditch

628+00 Road 18"-36' C.M.P. Side Drain on left & 200 Cu Yds. Emb. for Road App. on right & left

Δ 2°-16' L
D 1°
R 5730.0
T 113.4
L 226.1

PC. 631+86.1

PARLIN

Barn

Store

Sheds

To Pitkin

PT. 634+12.8

R.R. "Y"

S. 32° 04' E.

625 — 630 — 635

50' — 50' — 50'

No. 2004

Present Road

Pl. 632+99.5

S.E¼ S.E¼ Sec. 15 T.49N. R.2E. N.M.P.M.

630+25 Road 48"-56' C.M.P. Culvert 1 Helvl. & 50 Cu Yds Exc. for ditch

C. and S. R.R. Depot Grounds

634+60 Road 24"-48' C.M.P. Culvert 1 Helvl. Diversion Box (See Sheet # 21) & 10 Cu Yds Exc. for ditch, Remove Culvert.

W.J. Collard

S.W¼ S.W¼ Sec. 14 T.49 N. R.2E. N.M.P.M. Fred F. Klein

630+00 Road 150 Cu Yds Emb. for Road Approach right & left & two 18"-34' C.M.P. Side Drains

Sta 638+65 = 635+37.35 ℄ Jam. Team Bridge Concrete Pier, Gravity Abutments

S. 34° 20' E.

635 — 640

30 — 30

No. 2000 House

637+30 P.O.T.

76°-18'

1136'

Creek

Quartz

No. 1937

House

641+00 Road 18"-38' C.M.P. Side Drain & 200 Cu Yds Emb. for Road App. right & left

642+00 Road 24"-84' C.M.P. Extension to Culvert in Place

E½ NW¼ & NW¼ NW¼ Sec. 23 T.49 N. R.2E. N.M.P.M. J.E. Hicks.

D. and R.G.W. R.R.

645 — 650

30' — 30'

PC. 648+42.4

Δ. 30° 10' L
D. 4°
R. 1432.5
T. 386.1
L. 754.2

R.R. Property Line — 70'

No. 1987

50' — 50'

644+12 Road 18"-36' C.M.P. Side Drain & 100 Cu Yds Emb. for Road App. on right & left

No. 1933

645+85 Road 30"-46' C.M.P. Culv. 1 Helvl. & 10 Cu Yds. Exc. for ditch. Remove Structure

W½ NW¼ NW¼ Sec. 23 T.49 N. R.2E. N.M.P.M. J. Cordill

No. 1989½

650+75 Road 4'-3"-36' C.B.C. & 350 Cu Yds Exc. for ditch. Remove culvert

650+20 Road 200 Cu Yds Emb. for road approach. Remove building from R.O.W.

645.5

State Highway No. 114

R.R. Property Line

Pl. 652+28.5

PRESENT STRUCTURE
Span - 29.75'
Clear Roadway - 18'
Clear Waterway - 355 sq ft
Type of Superstructure - Timber Trestle
Type of Substructure - Rock Filled Log Cribs
Struct. to be Removed - To be Removed

STREAM DATA
Drainage Area in Sq Mile = 1.63
Velocity During Flood Water =
Elevation of
Maximum high water - 7926 Ice rails - 7918.0
Normal Stage — Stream bed - 7917.0
Mud -
Scour - None

PROPOSED STRUCTURE
Position required to present structure - Same.
Span - 150'-0"
Clear roadway - 25'
Clear waterway - 414 sq ft
Type of Superstructure - Beam Conc. Floor
Type of Substructure - Concrete Abut. & Wings
Obtain Structure Requirements - None
R.R. Siding, Parlin - Rail to Bridge Site - 8 Mi.

NEARBY STRUCTURES ON SAME STREAM
Location - DIRECTLY - 200' Upstream
Waterway - 160 sq ft
Effect During Floods - Adequate

7970 / 7960 / 7950 / 7940 / 7930 / 7920 / 7910

600' V.C.

6.0% — 49.00

34.88 — 28.32 — 27.51 — 27.66 M

El. 27.1 — El. 26.8 — El. 31.00

-0.529% — +0.8% — +0.2% — 0.0% — -0.258% — 0.0% — +0.28% — +1.0%

100' V.C. — 200' V.C. — 100' V.C.

26.87 — 26.86 — 26.86 — 27.51 — 28.46 — 28.41 — 28.46 — 28.46 — 28.46 — 28.40 — 28.20 — 27.49 — 27.23 — 27.17 — 27.20 — 27.31 — 27.87 — 28.10 — 28.51 — 28.91

El. 219 — El. 233 — El. 200 — El. 200

Pl. 28.46 — Pl. 28.46 — Pl. 27.77 — Pl. 27.77 — Pl. 28.01

6.63% — 6.66% — 6.66%

Wet line assumed at Elevation 7918.0 for Structure Excavation Quantities

Concrete Superstructure Very Handsome.

353 — 270

30'-0" — 30'-0"

33 — 270 — 70

625 — 630 — 635 — 640 — 645 — 650

PLATE 1 PLAN-PROFILE O. F. R. & P. E. STANDARD

FED. ROAD DIST. NO	STATE	FED. AID PROJ. NO	SHEET NO	TOTAL SHEETS
3	COLO.	259-C	4	

PLAN	DATE	BY
SUBMITTED		
ALIGNMENT CHECKED		
NOTE BOOK ALIGNMENT AT. OF WAY CHECKED		
NO.		

SW¼SW¼ SEC. 14
T49N, R2E, N.M.P.M.
FRED F. KLEIN

E½ NW¼NW¼ SEC. 23
T49N, R2E, N.M.P.M.
J.E. HICKS

NE¼SE¼ SEC. 15
T49N, R2E, N.M.P.M.
W.J. COLLARD

Gravel Pit

SE¼SE¼ SEC. 15
T49N, R2E, N.M.P.M.

C. & S. RR. DEPOT GROUNDS

SE¼SE¼ SEC. 15
T49N, R2E, N.M.P.M.
W.J. COLLARD

W½NW¼NW¼ SEC. 23
T49N, R2E, N.M.P.M.
J. CORBITT

D & R.G. RR. STATION GROUNDS

PARLIN
M.A. DEERING

Δ = 2°-16'
D = 1°
T = 113.3
L = 226.7
R = 5730.0

PC - 631+86.2
PT - 634+12.9

Sta 639+00 to 639+50 - Regd - Re-floor
Timber Crib Bridge & Leave in place
See S.P.-726. Mastic Wearing Surface

532°-08'E

538°-20'E

100' R.o.W.

Fence

Barn

Stairs

To Parlin

Creek

House

D & R.G.W. R.R.

PC - 618+42.4

S.H. #114

620 625 630 635 640 645 650

620+00 to 650+00 - 100% Dry Common (meadow land)

7980 70 60 50 40 30 20

7980 75 70 65 60 55 50 45 40 35 30 25 20 15 7910

600' V.C.

-6.00%

Rock

No bottom at 8.5' down

-0.88%

+1.10%

-0.76%

Level

200' V.C.

205' V.C.

Ditch bottom Elev 29.5

High Water

Low Water

PC 27.01

PC 27.17

PC 31.00

RR

Ditch

FED ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	NRH-259-C	13	

PLAN — SURVEYED — PLOTTED — NOTE BOOK — ALIGNMENT CHECKED — RT. OF WAY CHECKED — NO. — DATE — BY

PROFILE — SURVEYED — PLOTTED — CROSS SECTIONED — NOTE BOOK — STRUCTURE NOTATIONS CHKD. — NO. — DATE — BY

655+75 Remove Shed

Hotel

655+96.6 PT

655+00 to 661+50 Road 200 Cu Yds. Exc. for drain ditch

N.E.¼ N.W.¼ Sec. 23 T. 49 N. R. 2 E. N.M.P.M. J.E. Hicks.

661+50 Road 30'-70' C.M.P. Culv. & 400 Cu Yds. Exc. for ditch and to stabilize subgrade Also Road 50 Cu Yds. selected material for back filling under culvert.

S.W.¼ N.E.¼ Sec. 23 T. 49 N. R. 2 E. N.M.P.M. J.E. Hicks

678+00 Road 2-4'-52' C.M.P. Culverts, 200 Cu Yds. Exc. for ditch and 100 Cu Yds. selected material for back filling under culvert.

701'

44.5'

R.R. Property Line

1256.1'

Filling Station

Present Road

655 660 665 670 S. 64° 30' E 675 680 685

50' 50' 50' 50'

100'

PARLIN

R.R. Station

Loading Corral

R.R. R.O.W.

D and R.G.W. R.P.

R.R. R.O.W.

S.E.¼ N.W.¼ Sec. 23 T. 49 N. R. 2 E. N.M.P.M.

R.R. Property Line 2242.9'

N

7950 7940 7930 7920

28.5 28.0 28.11

+1.0%

33.91

PI 35.11

34.26

200' V.C.

34.01

El. 29.4

-0.5%

30.51 30.19 30.21

200' V.C.

PI 30.01

+0.2%

El. 26.7

37.01

400' V.C.

32.94

PI 32.41

+1.26%

34.53

7940 7930 7920

Incl. Exc.	285		8930		2250		
Emb.		68 75				20163	
Borrow							18680
SYOH.							2210.
YMOH.							
Acc. Avail							

655 660 665 670 675 680 685

PLATE 1—PLAN-PROFILE of P. & R. R. STANDARD

ACIFFEL & ESSEX C., NEW YORK

FED. AID DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	859-C	5	

NE¼ NW¼ SEC. 23
T49N, R2E, N.M.P.M.
J.E. HICKS

SW¼ NE¼ SEC. 23
T49N, R2E, N.M.P.M.
J.E. HICKS

E½ NW¼ NW¼ SEC. 23
T49N, R2E, N.M.P.M.
J.E. HICKS

SE¼ NW¼ SEC. 23
T49N, R2E, N.M.P.M.

PC-648+42.4
Δ=30°-10'
D=4°
T=386.1
L=756.2
R=1432.5
PT-655+96.6
PI-652+28.5
650
655
660
665
670
675
680
Hotel
Filling Station
Present Road
100' R. of W.
S64°-30'E
"Z" Road
Loading Corrals
PARLIN
R.R. Station
D. & R.G.W. R.R.
D. & R.G.W. R.R. STATION YARD
Structural Excavation and Rock Excavation
Structural Excavation and Rock Backfill
650+00 to 655+50 — 100% Dry Common
655+50 to 661+20 — 100% Hard Rock
661+20 to 684+00 — 100% Wet Common
+0.28%
+1.88%
-0.60%
+0.20%
RR
Wet Ground
RC 27.9
RC 28.0
RC 32.0
RC 30.0
RC 30.2
RC 32.0
RC 30.2
RC 30.0
RC 32.0
RC 30.2
RC 30.0
RC 32.0
RC 30.2
RC 30.0

FED ROAD DIST NO.	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO.	NDH-233 C	14	

PLAN — SURVEYED, PLOTTED, NOTE BOOK, NO., DATE, BY, ALIGNMENT CHECKED, RC OF WAY CHECKED

PROFILE — SURVEYED, PLOTTED, NOTE BOOK, NO., DATE, BY, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD.

S.E.¼ N.E.¼ Sec. 23 T. 49 N. R 2 E. N.M.P.M. D. F. McDonough

Δ 11°44' L.
D 4°
R 1431.5
T 147.2
L 293.3

60'+00 Regd 24"x 76' CMP Culvert, 200 Cu Yds Exc. and 100 Cu Yds Selected Material for back filling under culvert.

PC 693+45.8

PT 696+39.1

Present Road

697+75 Regd 84"x 56' CMP Culvert & 25 Cu Yds Exc for Hdwls

685 — S. 64° 30' E. — 690 — 695 — 700 — 705 — 710 — S. 76° 14' E. — 715

R.R. Right of way

D and R.G.W. R.R.

R.R. Right of Way

PI 694+93.80

PC 710+90.2

PI 714+27

Δ 13°30' R
D 2°
R 2865.0
T 339.1
L 675.0

714+50 Regd 2.18'x 26' CMP Side Drains & 30 Cu Yds Emb for Road Approaches on right & left.

N.E.¼ S.E.¼ Sec. 23 T. 49 N. R 2 E. N.M.P.M. Fred F. Klein

NW¼ SW¼ Sec. 24 T. 49 N R 2 E. N.M.P.M Clarabell McDonough.

Clearing and Grubbing:

690+50 to 718+50 Willows

7970 / 7960 / 7950 / 7940 / 7930 / 7920

+1.26 %

PI 695.01

41.29

43.23

600' V.C.

PT 693.8

0.65

-1.12 %

38.29

400' V.C.

36.71

36.05

PT 695

PI 696.05

36.25

+0.2 %

Local Exc. 12638 — 14925 — 14124 — 14137

Emb. 7387

Borrow

S.Y.O.H. 94830

Y.M.O.H. 200

Per Avail

685 — 690 — 695 — 700 — 705 — 710 — 715

PLATE 1 - PLAN-PROFILE O.P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK

FED ROAD DIST NO	STATE	FED AID PROJ NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	839-C	6	

SW¼ NE¼ SEC. 23
T49N, R2E, N.M.P.M.
J.E. HICKS

SE¼ NE¼ SEC. 23
T49N, R2E, N.M.P.M.
B. F. MC DONOUGH

NW¼ SW¼ SEC. 24
T49N, R2E, N.M.P.M.
CLARABELL MC DONOUGH

NE¼ SE¼ SEC. 23
T49N, R2E, N.M.P.M.
FRED F. KLEIN

Fence
180' ROW
Fence
Fence
R.R. Fence
D & R G W R.R.
100' E of W
Δ = 11°-44'
D = 4°L
T = 147.2
L = 293.3
R = 1432.6
P.C. 691+45.8
P.T. 693+18.9
R.P. 694+32.0
P.C. 710+90.2
S64°-30'E
S76°-13'E

680 to 686 – 100% Common (wet)
686 to 689+50 – 100% Rock
689+50 to 691+50 – 100% wet com.
691+50 to 697+00 – 100% dry Com
697+00 to 710+00 – 100% Common (wet)

400' V.C.
600' V.C.
+1.26%
+0.30%
-1.13%
+0.20%
Wet Ground
P.C. 32.41
P.C. 45.01
P.C. 36.65
7920
7930

PLAN
SURVEYED
PLOTTED
NOTE BOOK
NO.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
NO.

PLATE I - PLAN-PROFILE, B. P. R. STANDARD

EUGENE DIETZGEN CO. CHICAGO

FED ROAD DIST NO	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
9	COLO	NRH 259 C	19	

N.E.¼ S.W.¼ Sec.24 T.49N. R.2E. N.M.P.M. Clarabell McDonough

713+50 to 718+25 Rem. 150 Cu Yds. Exc. for ditch change on left

718+00 Rem. 24"-30" CMP Culvert & 20 Cu Yds. Exc. for ditch

718+50 Rem. 1500 Cu Yds. Emb. for approach to project Project Marker.

N.W.¼ S.E.¼ Sec.24 T.49N. R.2E. N.M.P.M. Alphonse Taramarcaz

Δ 32°30'L.
D 6°
R 955.0
T 278.4
L 541.7

P.I. 714+29.3

S. 62° 44' E.

P.T. 717+65.2

R.R. R.O.W.

D. and R.G.W. R.R.

100'

50'

P.C. 739+35.6

P.T. 744+71.3

N. 84° 46' E.

P.I. 742+14.0

Sta 718+50 END OF F.A.P. NRH 259-C

Δ 13° 30'L
D 2°
R 2865.0
T 339.1
L 676.0

S.W.¼ S.E.¼ Sec.24 T.49N. R.2E. N.M.P.M.

PLAN — SURVEYED, PLOTTED, NOTE BOOK, NO., ALIGNMENT CHECKED, PT. OF WAY CHECKED, BY, DATE

PROFILE — SURVEYED, PLOTTED, CROSS SECTIONED, NOTE BOOK, NO., STRUCTURE NOTATIONS CK'D, BY, DATE

+0.2%

+0.232%

+4.0%

600' V.C.

100' V.C.

EL 7951

P.I. 45.05

42.17

41.95

43.32

46.65

P.I. 44.22

50.02

70.02

Incl. Exc.
Emb.
Borrow
S.T.O.H.
Y.M.O.H.
Bor. Avail.

115'
115'

Along ROW Within Free Haul Limits

7980
7970
7960
7950
7940
7930

715 720 725 730 735 740 745

PLATE 1 - PLAN-PROFILE O. P. R. & B. R. E. STANDARD
HEUFFEL & ESSER CO. NEW YORK

FED.RW. DIST. NO.	STATE	FED.AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	739-C	9	

NE¼SW¼ SEC. 24
T 49 N, R 2 E, N.M.P.M.
CLARABELL MC DONOUGH

NW¼SE¼ SEC. 24
T 49 N, R 2 E, N.M.P.M.
ALPHONSE TARAMARCAZ

NW¼SW¼ SEC. 24
T 49 N, R 2 E, N.M.P.M.
CLARABELL MC DONOUGH

SW¼SE¼ SEC. 24
T 49 N, R 2 E, N.M.P.M.

This sheet 100% Wet Common.

PLAN — SURVEYED / PLOTTED / NOTE BOOK / INC. — DATE / BY / CHECKED / R/W & PAT. CHECKED

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / R.W.s NOTED / STRUCTURE NOTATIONS CHKD — DATE / BY

PLATE T - PLAN-PROFILE U. P. R. STANDARD

EUGENE DIETZGEN CO. - CHICAGO N. Y.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO	239-C	8	

SE¼SE¼ SEC. 24
T49N, R2E, N.M.P.M.
ALPHONSE TARAMARCAZ

SW¼SE¼ SEC. 24
T49N, R2E, N.M.P.M.

SW¼SW¼ SEC. 19
T49N, R3E, N.M.P.M.
ALPHONSE TARAMARCAZ

SE¼SW¼ SEC. 19
T49N, R3E, N.M.P.M.
VACANT

Sta. 739+35.6 PC
Sta. 742+14.0 PI
Sta. 745+72.8 PT
Sta. 751+28.8 PC
Sta. 755+30 PI
Sta. 759+11.5 PT

Δ = 32°30'
D = 6°
T = 278.4
L = 541.7
R = 959.0

Δ = 19°44'
D = 4°R
T = 249.2
L = 493.3
R = 1432.5

100' R & W

N 84°46E

S 75°30'E

Fence
Ditch
Pole Fence
Present Road
Board Fence
Shade
Cabins
House

Clearing and Grubbing Required:
Sta. 741+00 to End of proj. - Soft Rock

740 to 743 - 100% Rock
743+00 to 746+75 100% Dry Comm.
746+75 to 750 - 100% Rock
750 to 756 - 100% Dry Common
753+95 to 756+10 100% Rock
756+10 to 768 - 100% common (Dry)
768 to 770 50% Rock

+4.00%
+11.00%
-10.00%
+0.34%
+3.90%
+7.00%
Rock

500' V.C.
600' V.C.
400' V.C.
400' V.C.

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, QUANTITIES CHECKED, NOTE BOOK, NO., ART. OF MAT. CHECKED, STRUCTURE AGTAT AS CH'ND, DATE, BY, REMARKS

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, NOTE BOOK, NO.

PLATE 1 PLAN-PROFILE R.R.S. 239(3)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	239-C	3	

SE¼SW¼ SEC.19
T49N, R3E, N.M.P.M.
VACANT

SW¼SE¼ SEC.19
T49N, R3E, N.M.P.M.
VACANT

NE¼NE¼ SEC.30
T49N, R3E, N.M.P.M.
ALPHONSE TARAMARCAZ

NE¼NW¼ SEC. 30
T49N, R3E, N.M.P.M.
ALPHONSE TARAMARCAZ

NW¼NE¼ SEC.30
T49N, R3E, N.M.P.M.

770 + 75 to 800+00 – 100% Dry Common

770+25 to 770+75 100% Rock

100' ROW-2

125' R.O.W-1

Present Road

S75°-30'E

Ditch

Fence

PI-7861.65.0

RC-7921.08.1

Δ = 18°-54'
D = 2°R.
T = 476.9
L = 945.0
R = 2865.0

EQUATION-PT-800+53.1 BK= SUR+51.2 A

PLAN: SURVEYED, PLOTTED, DRAWN, CHECKED, NOTE BOOK, NO., DATE

PROFILE: SURVEYED, PLOTTED, DRAWN, CHECKED, NOTE BOOK, NO., DATE, STRUCTURE NOTATIONS OMITTED

7990
80
70
60
50
40

400' VC

800' VC

-1.00%

+1.32%

+0.16%

770 1 2 3 4 775 6 7 8 9 780 1 2 3 4 785 6 7 8 9 790 1 2 3 4 795 6 7 8 9 800

EUGENE DIETZGEN CO. CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	(NO.)	E59C	10	

NW¼NW¼ SEC. 20
T49N, R3E, N.M.P.M.
VACANT

SE¼NW¼ SEC. 29
T49N, R3E, N.M.P.M.
VACANT

NE¼NE¼ SEC. 30,
T49N, R3E, N.M.P.M.
ALPHONSE TARAMARCAZ

SW¼NW¼ SEC. 29
T49N, R3E, N.M.P.M.
ALPHONSE TARAMARCAZ

This Sheet - 100% Dry Common

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / NOTE BOOK / NO. / STRUCTURE NOTATIONS CHKD. / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / NOTE BOOK / NO. / STRUCTURE NOTATIONS CHKD. / DATE

PLATE I - PLAN-PROFILE U. P. R. STANDARD

EUGENE DIETZGEN CO.

FED ROAD DIST NO.	STATE	FED AID PROJ NO	SHEET NO	TOTAL SHEETS
3	COLO	2396	11	

SE¼NW¼SEC.29
T49N, R3E, N.M.P.M.
VACANT

NW¼SE¼ SEC.29
T49N, R3E, N.M.P.M.
VACANT

NE¼SW¼ SEC.29
T49N, R3E, N.M.P.M.
A. TARAMARCAZ

SW¼SE¼ SEC.29
T49N, R3E, N.M.P.M.
A. TARAMARCAZ

PI-828+37.0

330

335

340

345

350

355

360

S56°-48'E

Present Road

Ditch

Fence

PC-839+36.3

Δ=16°-44'
D=4°-0'
T=210.7
L=418.3'
R=1432.6

PT-843+54.6

PI-841+47.0

S40°-04'E

100'R of W

PC-850+96.3

Δ=12°-48'
D=4°
T=160.7
L=320.0
R=1432.5

PT-854+16.3

PC-855+66.6

Δ=36°-20'
D=6°
T=313.4
L=605.6
R=955.0

PT-861+72.2

S52°-52'E

PI-852+57.0

PI-858+80.0

830 to 0 to 835 to 0 -100% Dry Common

852 to 854 - 60% Rock 854 to 862 - 100% Dry Common

PLAN
SURVEYED:
PLOTTED:
NOTE BOOK
NO.
ALIGNMENT CHECKED:
BY:
NOTES OF ANY CHANGE:

PROFILE
SURVEYED:
PLOTTED:
NOTE BOOK
NO.
GRADES CHECKED:
BY:
NOTES OF ANY CHANGE:
STRUCTURE NOTATIONS CHKD

PC 81.68
8236
8222
8230
8226
400' V.C.
-0.16%
PC 85.04
8504
8492
8480
8468
8454
8442
300' V.C.
+2.0%
PC 88.04
9408
9459
9442
9454
200' V.C.
-0.50%
PC 95.54
9654
9619
9665
9571
9554
9542
9554
9535
400' V.C.
-2.62%
PC 92.35
9235

8100
8090
80
70
60

830 835 840 845 850 855 860

PLAN-PROFILE P.W.A. STANDARD

EUGENE DIETZGEN CO. CHICAGO

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	259-C	12	

SE¼SW¼ SEC. 28
T49N, R3E, N.M.P.M.
L.B. STITZER

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
PT. OF WAS CHECKED
NOTE BOOK
NO.
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
B. MS. NOTED
STRUCTURE NOTATIONS CHKD
NO.
DATE

Sta. 860+00 Begin Project
Sta. 872+13.6 End Project
2-Driving Lanes

Sta. 872+13.6 Begin Project
End Project - 4 Lanes

Sta. 884+78.0 Begin Project
End Project - 4 Lanes

Pl. 876+45.0

Δ = 46°-04'
D = 4°R
T = 609.0
L = 1151.7
R = 1432.5

Pl. 872+13.60

Pl. 883+13.77

Pl. 884+78.0

Pl. 861+72.2

Pl. 884+78.0

Pl. 872+13.60

Pl. 861+72.2

Pl. 883+13.77

Pl. 884+78.0

Fence

Fence

Fence

DIST NO.		PROJ. NO.	NO.	SHEETS
3	OLD	859-C	13	

SE SW SEC. 28
T49N, R3E, N.M.P.M.
L.B. STITZER

NE NW SEC.
T49N, R3E, N.M.P.M.
L.&C. STITZER

NW NE SEC.33
T49N, R3E, N.M.P.M.
VACANT

House
Shed
Gas
Present Road
Fence
100'R of W
543°-08'E
890
895
900
905
910
915
P.C. 907+10.77
Δ=24°58'
D=2°L
T=634.3
L=1248.3
R=2865.0
P.T. 919+56.0
PROJECT MARKER ON FAR 859-C
568°-06'E
Ditch
Fence
Road
P.I. 913+14.20

SW¼ SW¼ SEC. 28.
T49N, R3E, N.M.P.M.
VACANT

SE NW SEC.33
T49N, R3E, N.M.P.M.

SW¼ NE¼ SEC.33
T49N, R3E, N.M.P.M.
L.&C. STITZER

890+00 to 915+75 — 100% Common.

915+75 to 920 — 100% Rock

600' V.C.
960' V.C.
900' V.C.
600' V.C.
-1.50%
+0.20%
+3.50%
-0.30%
+0.39%
E.P. 92.16
P.T. 92.16
P.C. 92.21
P.I. 89.21
P.I. 91.16
P.C. 92.16
20
10
8000
7990
80
70
890 1 2 3 4 895 6 7 8 9 900 1 2 3 4 905 6 7 8 9 910 1 2 3 4 915 6 7 8 9 920

PLAN
SURVEYED
PLOTTED
NOTE BOOK
DATE
BY
CHECKED
LAST CHECKED
NO.

PROFILE
SURVEYED
PLOTTED
NOTE BOOK
GRADES CHECKED
DATE
STRUCTURES NOTATING CHKD
No.

PLATE 1-PLAN-PROFILE 8 P. R. STANDARD

EUGENE DIETZGEN CO. CHICAGO