PROFILE		BY	DATE
NOTE BOOK	SURVEYED	Howe + Party	10-25-51
	PLOTTED	D. Atkins	11-6-51 ✓ J.L.
	GRADES CHECKED		
	B.M.S. NOTED		
NO.	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
NOTE BOOK	SURVEYED	Howe + Party	Oct 1951
	PLOTTED	WDH	11-9-51
	ALIGNMENT CHECKED		
NO.	RT. OF WAY CHECKED		

3500
3510
3520
150
155
160
165
170
175
180
F.L. 05.0
-0.275%
P.I. 0584
06.12
06.00
200' V.C.
06.20
06.20
200' V.C.
06.42
06.37
+0.355
P.I. 06.55
-0.18%
04.35
300' V.C.
0387
P.I. 04.30
02.30
-1.333%
Sta. 151+40 Required
Road Approach Rt.
Sta. 152+94 Reqd. Remove
Portions of Rip Rap Rt + Lt
Extend 24" X 34 CMP Cross Culv.
8' Lt. + 10' Rt.
24" X 34' CMP
33'
34
46'
P.T. 152+28.5
33'
167'
POT 154+35.9
NW¼ SEC. 35
T. 12 N., R 45 W.
32.5'
46'
19
161+37.1
N 0° 08' W.
N 86° 40' E
NE¼ SEC. 35
T. 12 N., R 45 W.
R.R. MILE POST
369
POT 171+00
33'
33'
134
18'
47'
Printed in U.S.A. On IMPERIAL Tracing Cloth
PLATE 1-PLAN-PROFILE B.P.R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SP 39-166-501		

FEDERAL ROAD DIVISION NO.	DISTRICT	PROJ. NO.	SHEET NO.	TOTAL SHEETS
9	COLORADO	SP 39-166501	1	

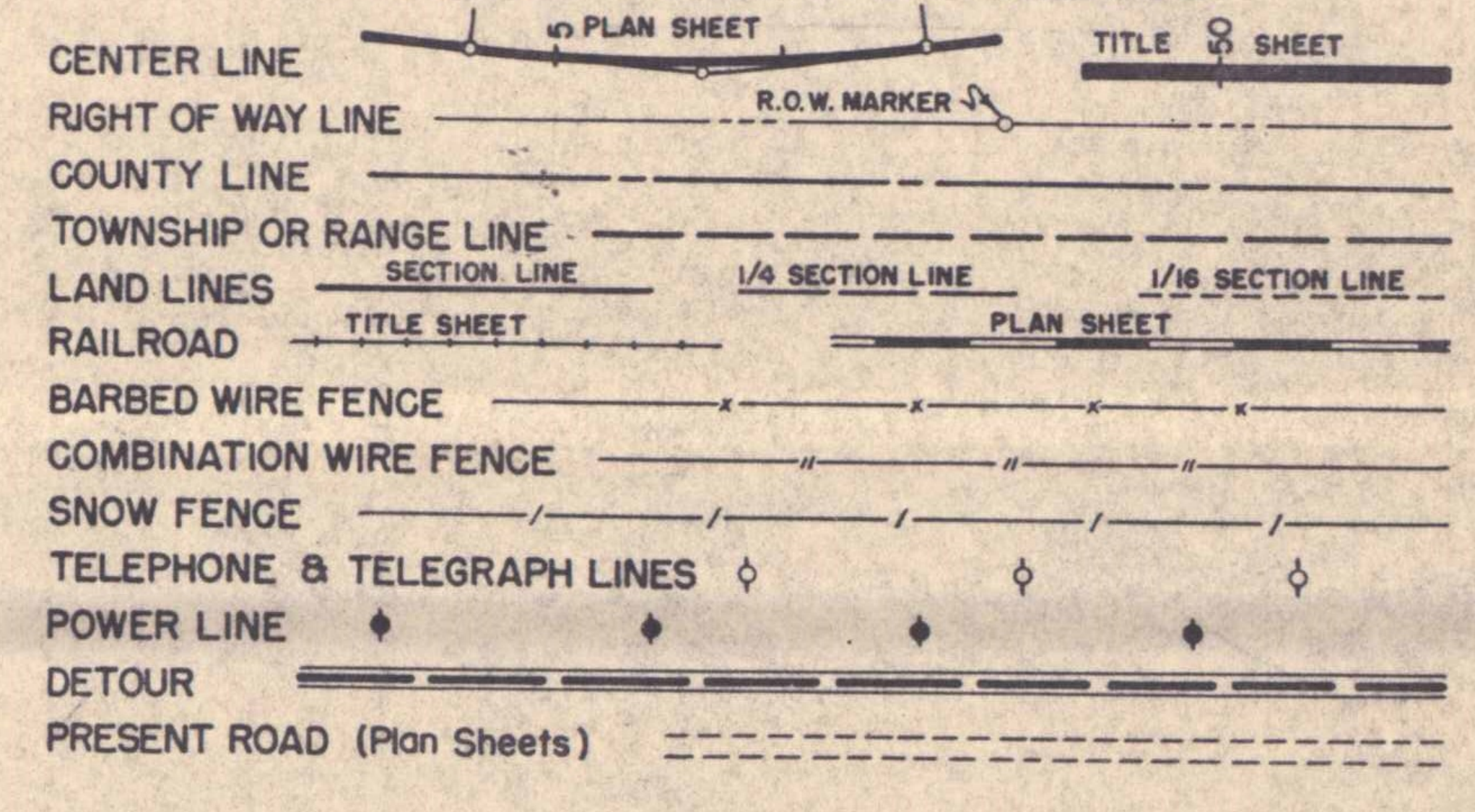
COLORADO
STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED
STATE PROJECT NO. 39-166-501
STATE HIGHWAY NO. 166
SEDGWICK COUNTY

INDEX OF SHEETS

SHEET NO. 1	SKETCH MAP AND TITLE PAGE.
2	TYPICAL CROSS SECTION AND SUMMARY OF QUANTITIES.
3	SELECT BORROW AND SURFACING PLANS; AND TABULATION OF GUARD POSTS AND FENCING.
4	LIST OF STRUCTURES.
5-11	ALIGNMENT PLAN & PROFILE.
12-50	ROADWAY CROSS SECTIONS.

CONVENTIONAL SIGNS


CENTER LINE
PLAN SHEET
TITLE SHEET
RIGHT OF WAY LINE
R.O.W. MARKER
COUNTY LINE
TOWNSHIP OR RANGE LINE
LAND LINES
SECTION LINE
1/4 SECTION LINE
1/16 SECTION LINE
RAILROAD
TITLE SHEET
PLAN SHEET
BARBED WIRE FENCE
COMBINATION WIRE FENCE
SNOW FENCE
TELEPHONE & TELEGRAPH LINES
POWER LINE
DETOUR
PRESENT ROAD (Plan Sheets)

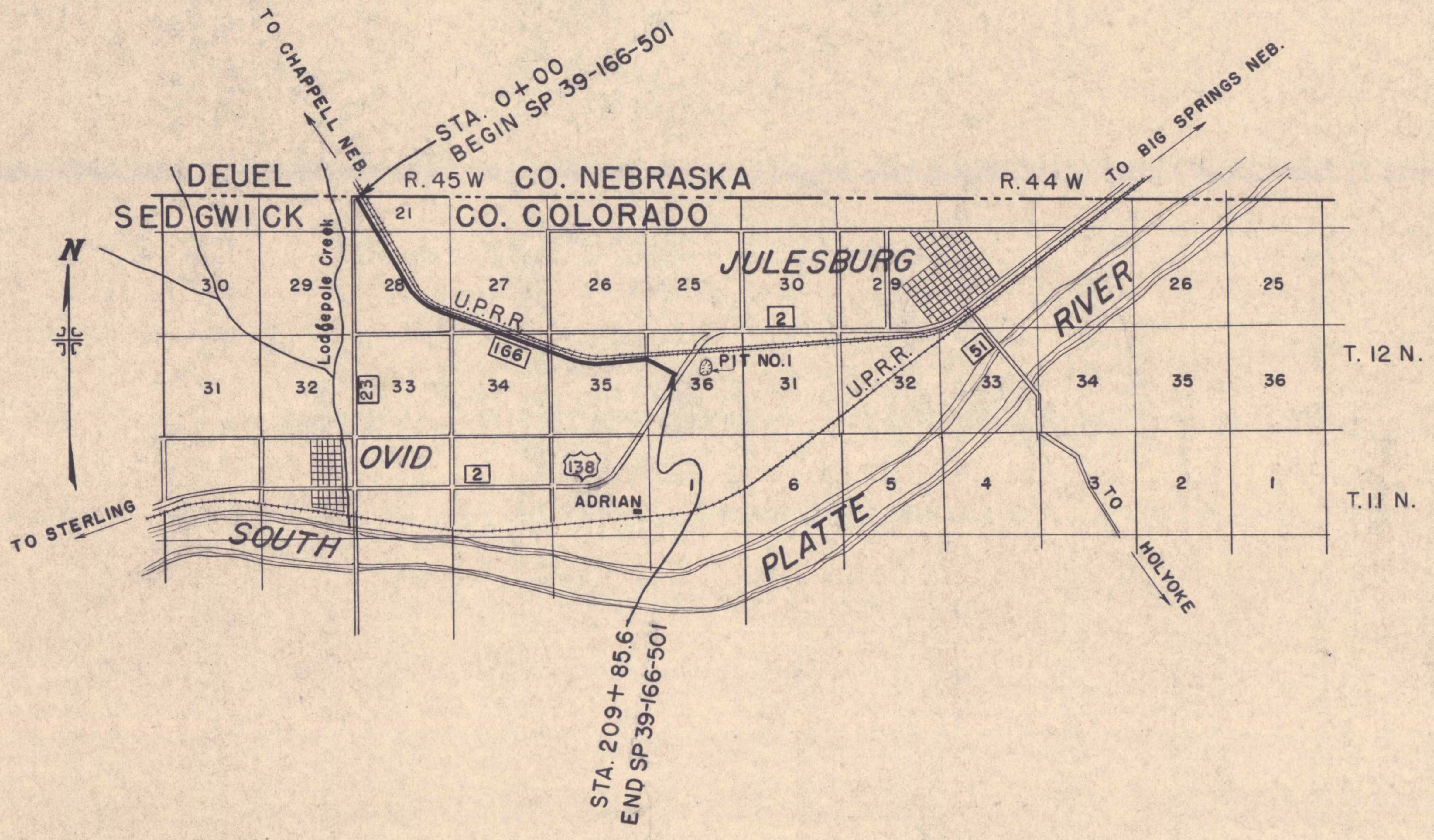
SCALES OF ORIGINAL DRAWINGS

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
NET LENGTH OF PROJECT } 20,985.6 FT. = 3.974 MILES


TO CHAPPELL NEB.
STA. 0+00
BEGIN SP 39-166-501
DEUEL
R.45 W
CO. NEBRASKA
R.44 W
TO BIG SPRINGS NEB.
SEDGWICK
CO. COLORADO
21
N
JULESBURG
30
29
28
27
26
25
30
29
26
25
Lodgepole Creek
U.P.R.R.
2
166
PIT NO. 1
51
RIVER
T. 12 N.
31
32
23
33
34
35
36
31
U.P.R.R.
32
33
34
35
36
OVID
2
138
ADRIAN
1
6
5
4
3
2
1
T. 11 N.
TO STERLING
SOUTH
PLATTE
TO HOLYOKE
STA. 209+85.6
END SP 39-166-501

These are Construction plans
No Small plans produced

NOTICE TO BIDDERS

IT IS RECOMMENDED THAT BIDDERS ON THIS PROJECT GO OVER THE PLAN DETAILS WITH ONE OF THE FOLLOWING FIELD REPRESENTATIVES OF THIS DEPARTMENT:

HIGHWAY DEPARTMENT
STATE OF COLORADO

RECOMMENDED FOR APPROVAL:

ASSISTANT ENGINEER DATE

APPROVED:

Mark U. Watrous 8/14/52
STATE HIGHWAY ENGINEER DATE

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

RECOMMENDED FOR APPROVAL:

DISTRICT ENGINEER DATE

APPROVED:

DIVISION ENGINEER DATE

PROFILE		BY	DATE
NOTE BOOK	SURVEYED	Hawk & Party	10-2-51
NO.	PLOTTED	[illegible]	11-3-51 J.L.
	GRADES CHECKED		
	B.M.s NOTED		
	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
NOTE BOOK	SURVEYED	Hawk & Party	Oct 1951
NO.	PLOTTED	W.H.	Nov 1
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

3530
3540
3550
0
5
10
15
20
25
30
S.H. 23
To Chappell
FL 40.6
FL 40.1
FL 39.7
SIGN
SIGNS
GATE
33'
167'
POT 0+00
0+00 ROAD APPROACH RT. & LT.
30" X 52' CMP SIDE DRAIN IN PLACE RT.
30" X 40' CMP SIDE DRAIN IN PLACE LT.
0+00 Reqd. Approach To Project
0+00 Reqd. Project Marker Rt. (State Forces)
0+00 Reqd. Road Approach Rt + Lt. + 36"X52' CMP Side Drain Rt.
1+00 Required 24"X42' CMP Cross Culvert + Ditches
DEUEL COUNTY, NEBRASKA
SEDGWICK COUNTY, COLORADO
S89°53'E.
1773.8' TO 1/4 CORNER
NOTE:
PRESENT ROW. 66' IN WIDTH IS LEASED FROM THE UNION PACIFIC R.R. CO. BY SEDGWICK COUNTY WHERE ROADWAY PARALLELS R.R. TRACKS
W 1/2 FRACTIONAL SEC. 21
T. 12 N., R. 45 W
S.H. No 16.
S 27° 22' E.
372 R.R. MILE POST
9+00 Required 24"X48' CMP Cross Culvert.
N
POT 15+00
U.P.R.R. ROW.
UNION PACIFIC RAILROAD
U.P.RR. TEL. LINE
N 89°53'W
POT 21+05.9
810.0' TO 1/4 CORNER
Westbound track
Eastbound track
POT 26+71.0
N.W. 1/4 SEC. 28
T. 12 N., R. 45 W.
PC 29+55.4
FL 42.30
45.00
44.45
44.00
FL 40.9
43.94
43.84
43.87
43.15
43.35
P.I. 43.50
43.32
43.14
42.74
P.I. 42.87
42.68
41.94
P.I. 40.65
40.70
40.56
40.50
40.32
P.I. 40.40
40.00
39.80
P.I. 39.40
38.68
38.50
200' V.C.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SP 39-(6) 501		

PLATE 1-PLAN-PROFILE R. R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York
Printed in U.S.A.

PROFILE		BY	DATE
NOTE BOOK	SURVEYED	Howe Party	10-24-51
	PLOTTED	D. Atkins	11-7-51 J.L.
NO.	GRADES CHECKED		
	B.M.s NOTED		
	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
NOTE BOOK	SURVEYED	Howe Party	10-?-1951
	PLOTTED	W.D.R.	Nov
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

3520
3530
3540
30
35
40
45
50
55
60
PI 36.60
38.68
200' V.C.
36.50
38.15
37.95
PI 38.05
200' V.C.
37.63
35.72
PI 34.72 EL 30.0
36.88
36.80
38.90
300' V.C.
39.91
PI 40.47
39.94
FL 33.9
38.10
PI 37.67
37.86
600' V.C.
37.11
FL 18
PI 37.96
No 4A A-2-4(0)
Similar to 1A
No 4B A-4(2)
Similar to 1B
No 5A A-2-4(0)
Similar to 1A
No 5B A-4(2)
Similar to 1B
33'
32'
30
PC 29+55.4
NW¼ SEC.28
T.12 N., R.45 W.
N
35
37+88 Reqd Road
Approach Rt. + 24" X 32'
CMP Side Drain
POST 38+78.7
35'
NE¼ SEC.28
T.12 N., R.45 W.
S 01°12' E
S 27°22' E
40
41+00 Required
Double 36" X 52' CMP
Cross Culvert
Δ 28° 39' LT.
D .97168°
T 1505.9'
L 2948.5'
R 5897'
PI. 44+61.3
45
U.P.R.R.
NE¼ SEC. 28
T. 12 N., R.45 W.
U.P. RR. Tel. Line
18" X 46' CMP
CONCRETE DIVISION BOX
49+21 Extend 18" X 46'
CMP Cross Culvert 10' Rt.
50
55
56+00 Required
24" X 52' CMP Cross
Culvert and Ditches
SE¼ SEC.28
T. 12 N., R. 45 N
PT 59+03.9
S 56°01' E
60
33'
33'
18" X 48' CMP

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SP 37-(46)-50(1)		

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO. Chicago-New York

Printed in U.S.A.
On IMPERIAL Tracing Cloth

PROFILE		BY	DATE
NOTE BOOK	SURVEYED	Hawe & Pratt	10-26-51
	PLOTTED	D. A. Kerns	11-7-51
NO.	GRADES CHECKED		
	B.M.s NOTED		
	STRUCTURE NOTAT'NS CH'KD		

V.J.L.

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

3520
3530
3540
60
65
70
75
80
85
90
F.L. 35.0
P.I. 37.96
P.I. 31.51
P.I. 33.06
33.09
32.75
0.42%
61+17: Required Extend
18'X48' CMP 4' Lt and
8' Rt
33'
33'
18" X 48' CMP
CONC. DIV. BOX
371
POT 63+40.4
167'
SE 1/4 SEC. 28
T. 12 N, R. 45 W.
Sta. 72+75 Required
Road Approach Rt + Lt
and 18" X 40' CMP Side
Drains Rt + Lt, Ditches
FL 32.6
FL 32.5
gate
18" X 30' CMP
POT 73+08.2
CONC. DIV BOX
REA. LINE
S 0°33' E
72+75.4
FL 32.5
FL 32.6
FL 32
S 56° 01' E
UNION PACIFIC R.R.
POT 80+00
CONC. DIVISION BOX
SW 1/4 SEC. 27
T. 12 N, R. 45 W.
U.P.R.R. TEL. LINE
34'
33'
PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SP 39 166 501		

PLAN		BY	DATE
NOTE BOOK	SURVEYED	[illegible]	[illegible]
	PLOTTED	[illegible]	[illegible]
NO.	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PROFILE		BY	DATE
NOTE BOOK	SURVEYED	[illegible]	[illegible]
	PLOTTED	[illegible]	[illegible] VJL
	GRADES CHECKED		
	B.M.s. NOTED		
NO.	STRUCTURE NOTAT'NS CH'KD		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SR 74-166-501		

UNION PACIFIC RR.
U.P.R.R.Tel. Line.
R.R. BRIDGE
S 56° 01' E
34'
33'
32'
35'
90
95
100
105
110
115
120
370
16112
16113
188.0'
125.4'
gate
167'
POT 111+02.8
P.C. 113+88.1
N
SW¼ SEC. 27 T. 12 N., R. 45 W
NW¼ SEC. 34 T. 12 N., R. 45 W
SE¼ SEC. 27 T. 12 N., R 45 W
NE¼ SEC. 34 T. 12 N., R. 45 W
N 89° 36' W
A.T.&T. Pole No. 16113
102+50.7
R.E.A. POWER LINE
Sign NO. 126
Sign
HEADGATE
PETERSON CANAL
24" X 19' CMP
24" X 73' CMP
F.L. 18.3
104+77.5
S 0° 02' W
101+00 Required 24"X52' CMP CROSS CULVERT + DITCHES
102+00 Required Road Approach Rt.
103+00 Required Road Approach Rt + Lt
105+00 Required Road Approach Rt
3530
3520
3510
-0.3057 %
-0.4866 %
-0.43 %
-0.1771 %
PI 28.78
29.70
28.65
27.35
600' V.C.
FL 20.3
24.21
24.24
F.L. 19.2
F.L. 18.5
PI 24.40
19.24
18.84
18.63
200' VC
PI 15.81
No 10A A-2-4(0)
Similar To 1A
No 10B A-4(2)
Similar To 1B
No 11A A-2-4(0)
Similar To 1A
No 11B A-4(2)
Similar To 1B
No 12A A-2-4(0)
Similar To 1A
No 12B A-4(2)
Similar To 1B

STRUCTURE NOTES FOR BRIDGE STA. 102+56.7 TO 102+83.4

STREAM DATA

DRAINAGE AREA-IRRIGATION CANAL.
VELOCITY DURING HIGH WATER
ELEVATION OF
MAXIMUM HIGH WATER 3522.7
LOW WATER 3519.2
NORMAL STAGE- DRY
DRIFT LIGHT
SCOUR- NONE
NEARBY STRUCTURES ON SAME STREAM- 1 MI. S.W.

PRESENT STRUCTURE

SPAN - 1 @ 25.5
CLEAR ROADWAY 27.0'
CLEAR WATERWAY 63 sq.ft.
TYPE OF SUPERSTRUCTURE- CONCRETE DECK
STEEL I STPINGERS
TYPE OF SUBSTRUCTURE- CONCRETE ABUTMENTS
REQUIREMENTS AS TO REMOVAL- LEAVE IN PLACE

PLATE I-PLAN-PROFILE R. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

Printed in U.S.A.
On IMPERIAL Tracing Cloth

Printed in U.S.A.
On IMPERIAL Tracing Cloth

PROFILE		BY	DATE
NOTE BOOK	SURVEYED	Howe + Party	10-25-51
NO.	PLOTTED	D. Atkins	11-6-51 V.J.L.
	GRADES CHECKED		
	B.M.S. NOTED		
	STRUCTURE NOTAT'NS CH'KD		

PLAN		BY	DATE
NOTE BOOK	SURVEYED	Howe + Party	Oct 1951
NO.	PLOTTED	W.D.H.	Nov 5 1951
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		

PLATE 1-PLAN-PROFILE B. P. R. STANDARD
EUGENE DIETZGEN CO., Chicago-New York

Printed in U.S.A. Co. IMPERIAL Tracing Cloth

32' 35'
120
18"X38' CMP
S 56°01' E
125
NE 1/4 SEC. 34 T.12 N., R.45 W
POST 131+00
130
UNION PACIFIC RR
Δ 37° 19' LT.
D 58.3'
T 1991.2'
L 3840.4'
R 5897.0'
N
Stock Drive
P.I. 133+79.3
24"X34' CMP & HEADWALLS
18"X32' CMP
134+76.2
N 0° 05' W
18"X18' TILE
135
F.L. 11.4
F.L. 11.5
U.P.R.R. Tel. Line
POST. PI+7035'
140
N 86°40' E
NW 1/4 SEC. 35 T.12 N., R.45 W
145
150
34' 46'

Sta. 124+31± Reqd. Extend 18"X38' CMP Cross Culvert 8' Rt. + 10' Lt. Ditches.

Sta. 134+55 Remove Headwalls Rt + Lt.

Sta 134+55 Required Extend 24"X34' CMP Cross Culvert 10' on Rt + Metal Apron For 24" CMP Lt.

Sta. 134+76 Reqd. Road Approaches Rt + Lt.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	SHEET NO.	TOTAL SHEETS
3	COLO.	SP 39-166-501		