W253

FIELD BOOK

No. 385 F

FB#253

Our Leather Bound Engineers Note Books are carried in the following rulings:

No. 380 LEVEL BOOK. Left and Right Hand Page the same as Left Hand Page of this Book.

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THE FREDERICK POST CO.

ENGINEERING and DRAFTING SUPPLIES

IRVING PARK STATION

CHICAGO, ILL.

Index

Dulzura Conduit

(2)

(5) B.M. – On Boulder 8' Lt. 373+50 1479.50 B.M.
1, 29 1480.79

373+63.5 Back
373+51.00 Ahead
East End Flume № 15

+62 5 Trestle Bent

373+77.13 Δ "

373+91.83 Δ "

374+06.51 Δ "

374+21.23 Δ "

+28 "

+36 "

+43 5 "

374+51.28 Δ "

+58 5 "

374+65.92 Δ "

+73 5 "

All Sections taken at Trestle Bents.

Jan. 5 – '28
Ward – Notes
McBain – Rod
Duermit – Chn.

1480.79 H.I.

72.62 Flume Profile Ground Profile

60°	4.6	4.25	4.25	8.2	8.17	8.17	8.2	4.2	4.2	0.4
	8	4	3	2.5	℄ conc.	0	2.5	3	4	7
70°	8.3	9.8			8.3	10.0	10.2	4.4		
	8	3			℄	0	5	8		
Edge Boulder	13.7				8.5	12.0	11.5	5.1	4.7	
Down 10' – Up 20'	4				℄	0	7	11	18	
Edge Boulder	15.5	15.0			8.4	12.9	12.7			
	9	6			℄	0	16			
60°	15.6	14.5			8.5	13.6	13.7	11.2		
	22	12			℄	0	10	15		
60°	15.5	15.0	13.4		8.5	11.8	9.2	30°		
	20	7	6		℄	0	10			
60°	15.2	15.2	12.6		8.5	12.0	10.7	6.8	5.8	
	18	7	5		℄	0	8	11	17	
80°	15.7	15.6			8.5	13.7	12.0	7.5	12.5	
	14	6			℄	0	6	10	15	
70°	26.3				8.5	17.8	15.5	6.2	60°	
	17				℄	0	6	15		
70°	23.6				8.5	17.3	13.4	8.3	6.7	60°
	14				℄	0	5	9	13	
80°	21.8				8.6	17.6	16.0	12.0	5.9	Vert. 10°
	11				℄	0	4	5	12	
90°	20.7				8.7	17.3	15.0	7.0	Vert.	
	9				℄	0	5	13		
70°	25.4				8.7	18.6	15.3	11.7	8.3	10°
	11				℄	0	6	7	12	

	+	H.I.	−	Elev.
		1480.79		
374+82				
+90				
374+98.00 Δ				
			4.50	1476.29 T.F.
	2.58	1478.87		
375+06				
375+13.52 Δ				
+21				
+29.5				
+41				
+50.5				
+63.5				
+79.5				
+93				
376+08.5				

1480.79 H.I.

Flume profile / Ground profile

10° ↓	25.0 10	8.6 ℄	17.2 0	14.0 6	8.0 11	6.2 16	70° ↑	
10° ↓	22.2 11	19.5 6	8.7 ℄	15.6 0	8.1 9	2.0 19	80° ↑	
40° ↓	23.0 14	18.3 7	8.6 ℄	13.6 0	11.5 6	6.7 9	2.4 16	70° ↑

1478.87 H.I.

21.0 13	18.4 9	6.7 ℄	13.6 0	9.3 4	4.4 7	0.4 13	same ↑
23.2 13	19.0 9	17.8 6	6.8 ℄	12.6 0 (66.3)	8.3 5	2.0 10	+2.4 16
	24.5 13	19.0 6	6.8 ℄	13.3 0	8.5 6	2.6 8	+1.5 15
23.4 14	20.0 9	19.4 7	6.8 ℄	13.9 0	10.2 4	4.0 7	+1.4 14
23.6 15	20.0 9	19.3 6	6.7 ℄	16.5 0	13.5 5	7.6 10	5.5 17
29.8 17	28.7 10	26.8 3	6.7 ℄	20.8 0	11.0 7	2.8 18	
45° ↓	41.2 14	34.6 6	6.9 ℄	30.8 0	27.1 9	22.5 18	45° ↑
45° ↓	43.0 17	39.7 11	6.9 ℄	37.0 0	34.0 25	60° ↑	
45° ↓	38.8 17	28.7 7	6.8 ℄	30.0 0	25.8 12	30.0 28	25.5 41	70° ↑
38.7 23	35.8 14	31.0 11	27.5 8	6.9 ℄	25.0 0	17.1 8	14.0 13	11.7 26

(7) + H.I. − Elev.

1478.87

+22.5

376+36.98 ℄

+45

+52.5

+60.5

+68.5

+77

+85

+92.5

377+00.5

+08.5

+16.5

+24

1478.87 H.I.

Flume Ground

45°	24.5	21.9	6.9	13.7	11.4	7.2	5.0	
	14	7	℄	0	4	13	22	
45°	24.4	16.4	7.0	13.0	8.6	3.1	1.0	
	11	6	℄	0	8	13	21	
40°	21.0	12.5	6.9	11.0	9.4	6.5	2.2	
	9	5	℄	0	5	7	15	
40°	23.2	16.6	6.9	12.0	10.1	4.2	1.8	+1.0
	7	6	℄	0	4	8	13	17
40°	24.0	19.5	6.9	12.5	10.0	2.2	+2.4	
	12	6	℄	0	6	8	14	
35°	21.3	11.1	6.9	10.2	9.0	3.7	+0.6	+4.0
	8	4	℄	0	4	5	9	14
	23.6	18.2	6.9	12.0	10.7	3.1	+1.0	+3.6
	14	6	℄	0	4	5	8	12
	24.3	18.4	7.0	12.6	8.5	3.7	+2.4	
	14	6	℄	0	6	10	12	
	22.8	17.5	6.9	13.3	11.5	7.3	2.4	1.5 +3.0
	11	7	℄	0	3	5	9	12 13
24.2	19.8	15.3	7.0	10.6	9.2	4.9	1.2	+1.0
15	10	4	℄	0	3	5	9	14
23.5	19.4	16.2	7.0	11.8	9.0	3.4	+1.6	+3.1
14	8	5	℄	0	4	8	12	15
Same slope	21.8	17.3	7.0	13.3	11.1	5.7	2.2	+2.6
	11	5	℄	0	4	7	11	15
Same	22.0	17.8	7.0	13.3	10.0	5.1	0.4	
	11	5	℄	0	5	10	15	

(7)

(8)

+	H.I. 1478.87	−	Elev.
+2	377+32		
376	+40		
+4	+48		
+5	+55		
+6	+64		
+6	+72		
	377+79.80 Δ		
+7	+81.5		
+8	+89.5		
+9	+97		
377+	378+05.5		
+08	+13.5		
+16	+22		
+24	+30		

1478.87 H.I.

Flume			Ground				
23.3	19.0	7.0	14.8	13.8	10.5	3.0	+0.8
12	6	℄	0	3	5	8	14
23.3	18.7	7.0	14.3	12.7	6.8	4.1	+1.0
12	6	℄	0	4	7	10	14
24.7	18.8	7.0	13.8	12.0	1.1	+2.4	
12	6	℄	0	5	7	11	
24.3	20.0	7.1	15.7	14.0	11.5	6.5	+1.5 +3.0
12	6	℄	0	2	3	4	10 12
24.2	20.4	7.1	15.5	10.3	8.6	+0.8	
12	6	℄	0	4	8	17	
23.4	18.7	7.2	13.7	13.0	5.7	0.6	
12	6	℄	0	4	9	16	
21.7	17.2	7.2	12.8	8.5	+1.5		
12	6	℄	0	5	14		
19.5	15.2	7.1	10.2	8.4	3.6	+2.4	
12	6	℄	0	5	9	15	
19.0	14.8	7.1	10.3	7.8	2.7	+1.6	
12	6	℄	0	5	9	15	
19.0	13.7	7.1	10.0	8.7	0.9	+2.4	
12	6	℄	0	4	10	14	
18.4	13.6	7.1	10.0	8.4	6.6	+1.6	+3.2
12	6	℄	0	4	7	13	16
16.6	12.8	7.1	10.0	8.6	6.2	+2.5	
12	6	℄	0	4	7	16	
17.7	14.2	7.2	9.8	9.3	5.6	0.0	
12	6	℄	0	3	9	14	

⑨	+	H.I. 1478.87	−	Elev.
			7.63	1471.24 T.P.
	4.85	1476.09		

378+36.73 △								
+44								
+52.5								
+60.5								
+68.5								
+76.5								
+85								
+93								
379+01								
+09								
+17								
+25.5								
+34								

1476.09 H.I.

			Flume	Ground			
15.8 12	12.3 6		4.5 ℄	8.0 0	6.7 4	4.0 9	+2.3 15
22.2 12	16.2 6		4.4 ℄	10.8 0	7.5 4	4.8 9	+0.8 15
25.2 12	20.6 6		4.4 ℄	14.0 0	9.6 7	+0.8 18	
28.1 12	22.7 6		4.4 ℄	17.2 0	11.2 6	3.5 12	+2.2 18
27.2 12	21.6 6		4.4 ℄	17.8 0	11.5 8	4.2 12	+0.4 17
28.0 12	23.0 6		4.4 ℄	18.3 0	13.0 6	6.2 11	+0.4 17
27.8 12	23.3 6		4.5 ℄	18.6 0	13.0 8	8.7 11	3.4 17
27.0 12	21.6 6		4.5 ℄	17.7 0	10.4 9	1.0 18	
26.8 12	20.7 6		4.4 ℄	16.5 0	8.4 9	+0.3 18	
25.6 12	23.2 6	19.3 6	4.5 ℄	17.4 0	9.0 7	3.6 13	+0.3 17
25.4 12	23.4 6	19.3 6	4.5 ℄	16.1 0	6.3 12	+0.5 17	
	22.4 12	18.2 6	4.55 ℄	13.0 0	9.2 5	+2.0 17	
	18.2 12	14.7 6	4.5 ℄	10.1 0	6.6 6	+2.0 12	+4.0 15

(Conc. Wall)

(10)

	+	H.I. 1476.09	−	Elev.
379 + 41				
+ 49				
379 + 57.00	△			
+ 65				
+ 73				
+ 81				
+ 89				
+ 97				
380 + 04.5				
+ 13				
+ 20.5				
+ 28.5				
+ 44.5				

1476.09 H.I.

Flume		Ground					
12.3 / 12	8.3 / 6	4.5 ℄	6.7 / 0	6.3 / 3	5.7 / 5	+3.6 / 11	+4.6 / 13
11.8 / 15	8.0 / 9	4.5 ℄	7.0 / 0	5.7 / 3	+5.0 / 12		
11.4 / 15	7.7 / 9	4.5 ℄	7.4 / 0	6.3 / 5	+5.2 / 13		
12.2 / 14	8.1 / 8	4.6 ℄	7.3 / 0	5.4 / 6	+4.7 / 13		
13.4 / 13	9.1 / 7	4.6 ℄	7.3 / 0	6.8 / 3	5.0 / 8	+4.4 / 13	
16.0 / 13	11.0 / 7	4.6 ℄	7.6 / 0	6.8 / 4	3.7 / 8	+4.8 / 16	
17.4 / 12	14.0 / 6	4.6 ℄	11.4 / 0	9.5 / 3	6.0 / 9	0.6 / 16	
21.2 / 12	17.8 / 6	4.6 ℄	12.2 / 0	8.1 / 8	0.0 / 13		
20.8 / 12	16.7 / 6	4.7 ℄	12.9 / 0	9.2 / 6	1.8 / 10	0.0 / 14	
17.8 / 12	13.8 / 6	4.6 ℄	10.6 / 0	7.3 / 6	+1.2 / 16		
18.3 / 12	15.2 / 6	4.7 ℄	11.5 / 0	7.0 / 7	5.0 / 8	+0.2 / 16	
21.0 / 12	17.4 / 6	4.65 ℄	14.0 / 0	10.0 / 5	5.0 / 10	1.8 / 15	
26.3 / 12	19.6 / 6	4.8 ℄	15.6 / 0	8.5 / 7	5.7 / 9	1.5 / 16	

(11)

	+	H.I.	−	Elev.
		1476.09		
380+60.75 △				
+73				
+81				
+89				
+98				
381+13.5				
+30				
+37.5				
+46				
+54				
381+69.39 △				
+77				
381+86.76 △				

1476.09 H.I.

			Flume	Ground				
80°	26.0	23.5	4.6	16.0	15.0	7.5	3.4	+0.4
	9	6	℄	0	3	5	11	18
90° 20'	25.7	22.5	4.7	13.4	11.4	4.3	+1.5	+3.2
	9	6	℄	0	3	6	14	18
80°	14.4		4.7	12.2	9.3	3.6	+1.7	+3.8
	.7		℄	0	3	6	11	15
90°	14.4	11.1	4.6	7.9	8.4	0.0	+5.6	
	11	6	℄	0	4	6	15	
90°	14.7	13.0	9.4	4.65	7.5	6.8	+5.5	
	11	8	7	℄	0	6	11	
90°		14.3		4.7	9.3	7.3	+2.6	+7.8
		6		℄	0	4	6	13
90°	10.7	8.1		4.7	7.4	6.9	0.8	+4.5 +6.0
	5	4		℄	0	3	4	10 17
90°	11.2	7.7		4.7	7.1	6.1	+3.8	+5.8
	9	5		℄	0	4	7	16
85°		8.4		4.7	7.2	6.6	1.4	+2.6 +5.4 +8.0
		6		℄	0	4	4	7 10 16
85°		8.5		4.7	7.3	6.7	+1.3	+6.9
		6		℄	0	3	4	14
60°	18.4	16.5		4.8	8.2	7.6	0.6	+4.8
	8	4		℄	0	4	5	12
60°	16.5	14.4		4.85	8.6	7.2	0.7	+4.6
	8	3		℄	0	5	7	13
60°	11.9	10.9		4.8	8.0	6.8	0.3	+5.0
	10	3		℄	0	5	6	11

+	H.I.	−	Elev.	Finish & Grade
	1476.09	4.67		

B.M. - On Top of Ledge 12' Lt. 382+00 (W. End Flume #15)
1471.42 B.M.

8.67 1480.09 H.I.

382+00		1471.50
+05.4 W. End Flume #15		71.50
+25		71.48
+50		71.46
+75		71.44
383+00		71.42
+25		71.40
+50		71.38
+75		71.36
384+00		71.34
+25		71.32
	4.54	1475.55 T.P.
	4.48 1480.03 H.I.	
+50		71.30

− 0.08 % Grade

Dec. 28-'27
Ward - Notes
Duermit - Ler.
Mc Bain - Rod

1480.09 H.I.

+05.42 End Flume	4.7 4	Cone 4.7 2.5	8.7 2	71.4 8.7 ℄	8.7 2	4.7 2.5	Cone 4.7 4

71.39
8.70 in Flume
℄

75.45	71.42	75.40
4.64 Top Lt. Wall	8.67 ℄	4.69 Top Rt. Wall
75.64	71.28	75.71
4.45	8.85 ℄	4.38
75.63	71.39	75.73
4.46	8.70 ℄	4.36
75.67	71.32	75.56
4.42	8.77 ℄	4.53
75.60	71.21	75.67
4.49	8.88 ℄	4.42
75.48	71.34	75.49
4.61	8.75 ℄	4.60
75.54	71.19	75.53
4.55	8.90 ℄	4.56
75.49	71.19	75.40
4.60	8.90 ℄	4.69
75.46	71.17	75.53
4.63	8.92 ℄	4.56
75.49	71.15	75.57
4.60	8.94 ℄	4.52

1480.03 H.I.

75.45	71.15	75.44
4.58	8.88 ℄	4.59

(13)

+	H.I. 1480.03	−	Elev.	℄ Grade
+75				1471.28
385+00				71.26
+25				71.24
+50				71.22
+75				71.20
386+00				71.18
+25				71.16
+50				71.14
+75				71.12
387+00				71.10
+25				71.08
+50				71.06
		4.48	1475.55	TP
	4.12		1479.67	
+75				71.04

1480.03 H.I.

75.44 4.59	71.17 8.86 ℄	75.45 4.58
75.49 4.59	71.01 9.02 ℄	75.44 4.59
75.39 4.64	70.98 9.05 ℄	75.39 4.64
75.34 4.69	71.02 9.01 ℄	75.39 4.64
75.33 4.70	71.08 8.95 ℄	75.42 4.61
75.29 4.74	71.01 9.02 ℄	75.32 4.71
75.16 4.87	70.99 9.04 ℄	75.17 4.86
75.19 4.84	70.96 9.07 ℄	75.25 4.78
75.12 4.91	71.07 8.96 ℄	75.14 4.89
75.25 4.78	70.99 9.04 ℄	75.18 4.85
75.20 4.83	70.96 9.07 ℄	75.23 4.80
75.23 4.80	70.83 9.20 ℄	75.26 4.77

1479.67 H.I.

75.17 4.50	70.93 8.74 ℄	75.25 4.42

71.14 8.89 ℄

71.07 8.96 ℄

71.04 8.99 ℄

70.96 9.07 ℄

(14)

+	H.I. 1479.67	−	Elev.	℄ Grade
388+00				1471.02
+25				71.00
+38 Beg. Top Slab.				70.99
+50				70.98
+75				70.96
389+00				70.94
+06 End Top Slab and Beg. Pavement.				70.94
+25				70.92
+46 End Pavement				70.90
+50				70.90
+75				70.88
390+00				70.86

Concrete Top but no Pavement.

Pavement.

4.02 1475.65 B.M.

B.M. - Spk. in Hub 12' Lt 390+00

3.64 1479.29

4.08

75.46 4.21 Bottom Slab Elev.

75.38 4.29 B. Slab Elev.

1479.67 H.I.

75.16 4.51	70.75 8.92 ℄	75.18 4.49	70.90 8.77 ℄
75.10 4.57	70.79 8.88 ℄	75.10 4.57	
75.07 4.60	70.72 8.95 ℄	75.05 4.62	
75.06 4.61	70.77 8.90 ℄	75.00 4.67	
75.07 4.60	70.94 8.73 ℄	75.03 4.64	
75.05 4.62	70.80 8.87 ℄	75.10 4.57	
75.03 4.64	70.60 9.07 ℄	75.07 4.60	70.80 8.97 ℄
75.00 4.67	70.61 9.06 ℄	74.97 4.70	
75.03 4.64	70.65 9.02 ℄	75.00 4.67	70.73 8.94 ℄

(15)

+	H.I. 1479.29	−	Elev.	℄ Grades
+25				1470.84
+50				70.82
+75				70.80
391+00				70.78
+25				70.76
+50				70.74
+75				70.72
392+00				70.70
+25				70.68
+50				70.66
+75				70.64
393+00				70.62
+25				70.60

1479.29 H.I.

74.85 4.44	70.65 8.64 ℄	74.78 4.51	
74.95 4.34	70.62 8.67 ℄	74.92 4.37	
75.01 4.28	70.57 8.72 ℄	74.96 4.33	
74.97 4.32	70.54 8.75 ℄	74.99 4.30	70.63 8.66 ℄
74.86 4.43	70.35 8.94 ℄	74.88 4.41	
74.87 4.41	70.48 8.81 ℄	74.89 4.40	
74.86 4.43	70.54 8.75 ℄	74.85 4.44	
74.84 4.45	70.50 8.79 ℄	74.87 4.42	
74.83 4.46	70.46 8.83 ℄	74.86 4.43	
74.86 4.43	70.41 8.88 ℄	74.77 4.52	70.55 8.74 ℄
74.77 4.52	70.48 8.81 ℄	74.84 4.45	
74.71 4.58	70.38 8.91 ℄	74.78 4.51	
74.71 4.58	70.27 9.02 ℄	74.76 4.53	

16	+	H.I.	−	Elev.	℄ Grades
		1479.29			
+50					1470.58
			4.75	1474.54	T.P.
	4.69	1479.23			
+57.5 Beg. Flume #16					70.58
+75					70.56
+97.8 End Flume					70.54
394+00					70.54
+25					70.52
+50					70.50
+75					70:48
395+00					70.46
+25					70.44
+50					70.42
+75					70.40
396+00					70.38

Flume #16

1479.29 H.I.

74.67 4.62 | 70.45 8.84 ℄ | 74.80 4.49

1479.23 H.I.

74.46 4.77 | 70.48 8.75 ℄ | 74.46 4.77

70.27 8.96 ℄

74.40 4.83 | 70.40 8.83 ℄ | 74.37 4.86

74.58 4.65 | 70.38 8.85 ℄ | 74.49 4.74

74.56 4.67 | 70.28 8.95 ℄ | 74.60 4.63

74.55 4.68 | 70.31 8.92 ℄ | 74.65 4.58

74.54 4.69 | 70.25 8.98 ℄ | 74.65 4.68

74.55 4.68 | 70.23 9.00 ℄ | 74.53 4.70

74.52 4.71 | 70.08 9.15 ℄ | 74.52 4.71

74.53 4.70 | 70.07 9.16 ℄ | 74.52 4.71

70.29 8.94 ℄

74.48 4.75 | 69.98 9.25 ℄ | 74.31 4.92

74.45 4.78 | 69.91 9.32 ℄ | 74.54 4.69

70.25 8.98 ℄

17	+	H.I.	−	Elev.	℄ Grade
		1479.23			
+25					1470.36
			3.90	1475.33	TP
	7.50	1482.83			
+50					70.34
+75					70.32
+90 Beg. Top Slab					70.31
397+00					70.30
+18 End Top Slab.					70.28
+25					70.28
+50					70.26
			8.58	1474.25	TP.
	4.84	1479.09			
+75					70.24
398+00					70.22
+25					70.20
+50					70.18

Conc. Top
No Bottom

74.89
7.94
Bottom Slab

1479.23 H.I.

74.47 4.76 | 70.03 9.20 ℄ | 74.45 4.78

1482.83 H.I.

74.34 8.49 | 70.05 12.78 ℄ | 74.30 8.53

74.35 8.48 | 70.14 12.69 ℄ | 74.43 8.40

74.35 8.48 | 70.17 12.66 ℄ | 74.38 8.35

74.33 8.50 | 70.07 12.76 ℄ | 74.39 8.44

74.34 8.49 | 69.96 12.87 ℄ | 74.34 8.49

74.37 8.46 | 70.18 12.65 ℄ | 74.29 8.54

1479.09 H.I.

74.31 4.72 | 69.93 9.16 ℄ | 74.32 4.77

74.24 4.85 | 69.92 9.17 ℄ | 74.28 4.81

74.35 4.74 | 69.90 9.19 ℄ | 74.30 4.79

74.32 4.77 | 69.91 9.18 ℄ | 74.31 4.78

70.01 9.08 ℄

18.

	+	H.I.	−	Elev.	℄ Grade
		1479.09			
+75					1470.16
399+00					70.14
+25					70.12
+50					70.10
+75					70.08
			5.40	1473.69	B.M.

B.M. - Spk. in Hub 15' Lt. 400+00

5.21 1478.90

400+00					70.06
+25					70.04
+50					70.02
+75					70.00
401+00					69.98
+25					69.96
+50					69.94

1479.09 H.I.

74.27	69.89	74.24
4.82	9.20 ℄	4.85
74.26	69.87	74.19
4.83	9.22 ℄	4.90
74.15	69.78	74.20
4.94	9.31 ℄	4.89
74.15	69.79	74.12
4.94	9.30 ℄	4.97
74.06	69.81	74.02
5.03	9.28 ℄	5.07

69.95
9.14 ℄

1478.90 H.I.

74.13	69.83	74.16
4.77	9.07 ℄	4.74
74.11	69.77	74.15
4.79	9.13 ℄	4.75
74.14	69.75	74.15
4.76	9.15 ℄	4.75
74.04	69.73	74.07
4.86	9.17 ℄	4.83
74.26	69.79	74.18
4.64	9.11 ℄	4.72
74.01	69.59	74.09
4.89	9.31 ℄	4.81
74.04	69.61	74.04
4.86	9.29 ℄	4.86

19

	+	H.I.	−	Elev.	℄ Grade
		1478.90			
+75					1469.92
			5.00	1473.90	T.P.
	5.66	1479.56			
402+00					69.90
+25					69.88
+40					69.87
Beg. Pavement					
+50					1469.86
+75					
+95.7					
Beg. Flume #17					
403+00					
+25					
+29.6					
End Flume					
+50					
+75					
404+00					

All paved except Flume

Flume #17

Existing Pavement

0.08 ft/ft Grade

1478.90 H.I.

74.01 69.57 74.08
4.89 9.33 ft 4.82

1479.56 H.I.

73.98 69.58 73.99
5.58 9.98 ft 5.57

74.07 69.63 74.15
5.49 9.93 ft 5.41

73.98 69.83 73.98
5.61 9.73 ft 5.58

73.97 69.79 73.98
5.59 9.77 ft 5.58

73.84 69.88 73.90
5.72 9.68 ft 5.66

73.65 69.70 73.67
5.91 9.86 ft 5.89

69.63
9.93 ft

69.63
9.93 ft

73.63 69.67 73.64
5.93 9.89 ft 5.92

73.84 69.73 73.86
5.72 9.83 ft 5.70

73.95 69.64 73.91
5.61 9.92 ft 5.65

73.92 69.66 73.83
5.64 9.90 ft 5.73

20 + H.I. − Elev. ℄ Grade

1479.56

+25

+50

5.78 1473.78 T.P.

5.22 1479.00

+75

405+00

+25

405+44
Beg. Road Culvert

Co. Road Culvert Fill

Paved

Existing Pavement

406+10
End Culvert

+25

1469.46

+29
End Pavement

69.46

4.31 1474.69 B.M.

B.M. - On Concrete at S.W. Cor. of W. end of Conduit Top Slab at County Road Crossing.

3.63 1478.32

+50

69.44

−0.008 ℄ Grade

+75

69.42

1479.56 H.I.

73.93	69.68	73.75
5.63	9.88	5.81
	℄	
73.77	69.54	73.66
5.79	10.02	5.90
	℄	

1479.00 H.I.

73.73	69.49	73.66
5.27	9.51	5.34
	℄	
73.76	69.59	73.73
5.24	9.41	5.27
	℄	
73.66	69.50	73.63
5.34	9.50	5.37
	℄	
73.96	69.55	73.64
5.04	9.45	5.36
	℄	

5.06 Bottom Top Slab

73.61	69.42	73.60
5.39	9.58	5.40
	℄	

5.06 Bot. Slab

73.60	69.53	73.64
5.40	9.47	5.36
73.63	69.53	73.65
5.37	9.47	5.35

1478.32 H.I.

73.58	69.13	73.66
4.74	9.19	4.66
	℄	
73.55	68.96	73.62
4.77	9.36	4.70
	℄	

21	+	H.I.	−	Elev.	℄ Grade
		1478.32			
407+00					1469.40
+25					69.38
+50					69.36
+75					69.34
408+00					69.32
+25					69.30
+50					69.28
+75					69.26
409+00					69.24
			5.09	1473.23	T.P.
	4.59	1477.82			
+25					69.22
+50					69.20
+75					69.18
410+00					69.16

1478.32 H.I.

73.48	68.95	73.56
4.84	9.37 ℄	4.76
73.49	69.34	73.48
4.83	8.98 ℄	4.84
73.48	69.08	73.49
4.84	9.24 ℄	4.83
73.50	69.04	73.46
4.82	9.28 ℄	4.86
73.43	69.20	73.45
4.89	9.12 ℄	4.87
73.41	69.14	73.44
4.91	9.18 ℄	4.88
73.48	69.12	73.39
4.84	9.20 ℄	4.93
73.33	69.02	73.37
4.99	9.30 ℄	4.95
73.35	68.91	73.29
4.97	9.41 ℄	5.03

69.09
9.21 ℄
69.03
9.29 ℄

1477.82 H.I.

73.25	68.95	73.31
4.57	8.87 ℄	4.51
73.28	68.82	73.30
4.54	9.00 ℄	4.52
73.21	68.71	73.21
4.61	9.11 ℄	4.61
73.19	68.79	73.26
4.63	9.03 ℄	4.56

69.02
8.80 ℄

22	+	H.I.	−	Elev.	℄ Grade.
		1477.82			
+ 25					1469.14
			3.50	1474.32	
B.M. – Spk. in Hub 20' Lt. 410+00 = 1474.33 B.M.					
	3.53	1477.86			
+ 50					69.12
+ 75					69.10
411 + 00					69.08
+ 25					69.06
+ 50					69.04
+ 75					69.02
412 + 00					69.00
+ 25					68.98
+ 50					68.96
			4.72	1473.14	T.P.
	5.17	1478.31			
+ 75					68.94
413 + 00					68.92

Dec. 29-'27
Ward – Notes
Duermit – Level
Mc Bain – Rod

1477.82 H.I.

73.25	68.87	73.27	68.94
4.57	8.95 ℄	4.55	8.88 ℄

1477.86 H.I.

73.25	68.91	73.22	
4.61	8.95 ℄	4.64	
73.22	68.85	73.24	
4.64	9.01 ℄	4.62	
73.16	68.81	73.18	68.92
4.70	9.05 ℄	4.68	8.94 ℄
73.17	68.84	73.19	
4.69	9.02 ℄	4.67	
73.12	68.75	73.08	68.85
4.74	9.11 ℄	4.78	9.01 ℄
73.10	68.86	73.13	
4.76	9.00 ℄	4.73	
73.05	68.74	73.15	68.81
4.81	9.12 ℄	4.71	9.05 ℄
73.07	68.79	73.05	
4.79	9.07 ℄	4.81	
73.04	68.78	73.05	
4.82	9.08 ℄	4.81	

1478.31 H.I.

73.03	68.88	73.05	
5.28	9.43 ℄	5.26	
72.93	68.66	73.04	68.94
5.38	9.65 ℄	5.27	9.57 ℄

23

	+	H.I.	−	Elev.	℄ Grade
		1478.31			
+25					1468.90
+50					68.88
+75					68.86
414+00					68.84
+25					68.82
+50					68.80
+75					68.78
			5.01	1473.30	T.P.
	4.10	1477.40			
415+00					1468.76
+25					68.74
+50					68.71
+75					68.69
416+00					68.66
+25					68.64

1478.31 H.I.

72.93 68.57 72.98
5.38 9.74 ℄ 5.33

72.93 68.68 72.99
5.38 9.63 ℄ 5.32 — 68.68 9.63 ℄

73.01 68.76 72.96
5.30 9.55 ℄ 5.35

72.93 68.67 72.98
5.38 9.64 ℄ 5.33

72.89 68.80 72.91
5.42 9.51 ℄ 5.40

72.82 68.52 72.81
5.49 9.79 ℄ 5.50 — 68.61 9.70 ℄

72.88 68.53 72.77
5.43 9.78 ℄ 5.54

1477.40 H.I.

72.77 68.46 72.82
4.63 8.94 ℄ 4.58

72.78 68.52 72.83
4.62 8.88 ℄ 4.57

72.77 68.49 72.75
4.63 8.91 ℄ 4.65 — 68.54 8.86 ℄

72.80 68.50 72.69
4.60 8.90 ℄ 4.71

72.79 68.44 72.79
4.61 8.96 ℄ 4.61 — 68.51 8.89 ℄

72.76 68.47 72.73
4.64 8.93 ℄ 4.67

24	+	H.I.	—	Elev.	℄ Grade
		1477.40			
+50					1468.61
+75					68.59
417+00					68.56
+25					68.54
+50					68.51
			4.68	1472.72	T.P.
	3.11	1475.83			
+75					68.49
418+00					68.46
+25					68.44
+50					68.41
+75					68.39
419+00					68.36
+25					68.34
+50					68.31

Grade 0.01

1477.40 H.I.

72.73 4.67	68.36 9.04 ℄	72.70 4.70	68.44 8.96 ℄
72.77 4.63	68.47 8.93 ℄	72.74 4.66	
72.73 4.67	68.42 8.98 ℄	72.73 4.67	68.43 8.97 ℄
72.67 4.73	68.28 9.12 ℄	72.67 4.73	
72.60 4.80	68.22 9.18 ℄	72.66 4.74	68.37 9.03 ℄

1475.83 H.I.

72.73 3.10	68.39 7.44 ℄	72.74 3.09	
72.60 3.23	68.23 7.60 ℄	72.61 3.22	68.33 7.50 ℄
72.50 3.33	68.18 7.65 ℄	72.46 3.37	
72.53 3.30	68.16 7.67 ℄	72.55 3.28	68.31 7.52 ℄
72.41 3.42	68.02 7.81 ℄	72.51 3.32	
72.49 3.34	67.87 7.96 ℄	72.45 3.38	
72.49 3.34	68.09 7.74 ℄	72.34 3.49	
72.48 3.35	68.16 7.67 ℄	72.36 3.47	68.24 7.59 ℄

25	+	H.I.	−	Elev.	℄ Grade
		1475.83			
+75					1468.29
420+00					68.26
			3.39	1472.44	
B.M. – Spk. in Hub 12' Lt. 420+00 = 1472.42 B.M.					
	4.99	1477.41			
+25					68.24
+50					68.21
+75					68.19
421+00					68.16
+25					68.14
+50					68.11
+75					68.09
422+00					68.06
+25					68.04
			5.10	1472.31	TP
	4.74	1477.05			

1475.83 H.I.

72.49	68.13	72.40
3.34	7.70	3.43
℄		
72.47	68.03	72.46
3.36	7.80	3.37
℄		

1477.41 H.I.

72.42	67.86	72.29
4.99	9.55	5.12
℄		
72.40	67.83	72.44
5.01	9.58	4.97
℄		
72.47	67.92	72.34
4.94	9.49	5.07
℄		
72.24	67.56	72.25
5.17	9.85	5.16
℄		
72.23	67.85	72.30
5.18	9.56	5.11
℄		
72.18	67.87	72.28
5.23	9.54	5.13
℄		
72.24	67.91	72.19
5.17	9.50	5.22
℄		
72.23	68.05	72.22
5.18	9.36	5.19
℄		
72.21	67.83	72.15
5.20	9.58	5.26
℄		

26	+	H.I.	−	Elev.	℄ Grade
		1477.05			
+50					1468.01
+75					67.99
423+00					67.96
+25					67.94
+50					67.91
+75					67.89
			5.08	1471.97	T.P.
	4.96	1476.93			
424+00					67.86
+25					67.84
+50					67.81
+75					67.79
425+00					1467.76
+25					67.74
			4.92	1472.01	T.P.
	5.48	1477.49			

Grade −0.10%

Grade −0.08%

1477.05 H.I.

72.17	67.75	72.06
4.88	9.30 ℄	4.99
72.24	67.70	72.19
4.81	9.35 ℄	4.86
72.22	67.72	72.18
4.83	9.32 ℄	4.87
72.12	67.60	72.09
4.93	9.45 ℄	4.96
72.22	67.67	72.09
4.83	9.38 ℄	4.96
72.04	67.71	72.15
5.01	9.34 ℄	4.90

67.91
9.14 ℄

67.93
9.13 ℄

1476.93 H.I.

72.01	67.61	72.08
4.92	9.32 ℄	4.85
72.07	67.71	72.11
4.86	9.22 ℄	4.82
72.11	67.61	72.06
4.82	9.32 ℄	4.87
72.02	67.59	72.01
4.91	9.34 ℄	4.92
72.09	67.61	72.04
4.84	9.32 ℄	4.89
72.00	67.63	72.01
4.93	9.30 ℄	4.92

67.78
9.15 ℄

27	+	H.I.	—	Elev.	℄ Grade
		1477.49.			
+50					1467.72
+75					67.70
426+00					67.68
+25					67.66
+50					67.64
+75					67.62
427+00					67.60
+25					67.58
+50					67.56
+52 E. End Tunnel under Private Road					
			9.67	1467.82	T.P.
	4.48	1472.30			
+64 End Conc. Walls					
+75					67.54
Main Tunnel Not Lined					
428+00					67.52

— 0.08 % Grade

Jan. 3-'28
Ward — Notes
Dvermit — Lev.
McBain — Rod

1477.49 H.I.

71.93	67.55	72.00
5.56	9.94 ℄	5.49
71.98	67.62	71.98
5.51	9.87 ℄	5.51
71.96	67.61	71.94
5.53	9.88 ℄	5.55
71.91	67.53	71.88
5.58	9.96 ℄	5.61
71.85	67.49	71.97
5.64	10.00 ℄	5.52
71.87	67.39	71.90
5.62	10.10 ℄	5.59
71.84	67.22	71.80
5.65	10.27 ℄	5.69
71.83	67.49	71.83
5.66	10.00 ℄	5.66
71.83	67.39	71.84
5.66	10.10 ℄	5.65
71.83	67.46	71.84
5.66	10.03 ℄	5.65

67.71
9.78
℄

28	+	H.I.	−	Elev.	℄ Grade
		1472.30			
+26 Beg. Conc. Sides					
			4.67	1467.63	TP
	8.73	1476.36			
+38 W. End Tunnel					1467.49
+50					67.48
+75					67.46
429+00					67.44
+25					67.42
+50					67.40
+75					67.38
430+00					1467.36
			4.46	1471.90	TP
	4.52	1476.42			
+25					67.34
+50					67.32
+75					67.30

-0.08 Grade

℄

1476.36 H.I.

71.66	67.11	71.54
4.70	9.25	4.82
	℄	
71.63	67.21	71.51
4.73	9.15	4.85
	℄	
71.54	67.23	71.60
4.82	9.13	4.76
	℄	
Buried	67.26	71.49
	9.10	4.87 (5' Back)
	℄	
71.49	67.30	71.47
4.87	9.06	4.89
	℄	
71.53	67.32	71.54
4.83	9.04	4.82
	℄	
71.41	67.30	
4.95	9.06	Rock No Wall
	℄	
71.48	67.09	71.51
4.88	9.27	4.85
	℄	

1476.42 H.I.

71.45	67.26	71.47
4.97	9.16	4.95
	℄	
71.38	67.10	71.42
5.04	9.32	5.00
	℄	
71.42	66.98	71.49
5.00	9.44	4.93
	℄	

	+	H.I.	—	Elev.	℄ Grade
		1476.42			
			5.79	1470.63	T.P. on B.M.
				1470.67	B.M.

B.M. - Spk. in Hub 15' Lt. 430 + 7.5

	5.53	1476.20			
431 + 00					1467.28
+ 25					67.26
+ 50					67.24
+ 75					67.22
432 + 00					67.20
			4.70	1471.50	T.P.
	5.08	1476.58			
+ 10 Beg. Pavement.					
+ 25					67.18
+ 50					67.16
+ 58 ± E. End Flume #18					67.15
+ 75					67.14
+ 98 ± W. End Flume					
433 + 00					67.12

Flume 18.

Grade 0.08 ft/c

1476.20 H.I.

71.49	67.06	71.42
4.71	9.14	4.78
	℄	
71.40	67.08	71.38
4.80	9.12	4.82
	℄	
71.35	66.83	71.38
4.85	9.37	4.82
	℄	
71.44	66.99	71.42
4.76	9.21	4.78
	℄	
71.44	66.90	71.36
4.76	9.30	4.84
	℄	

1476.58 H.I.

71.38	67.15	71.42
5.20	9.43	5.16
	℄ Conc.	
71.35	67.15	71.37
5.23	9.43	5.21
	℄	
71.22	67.07	71.22
5.36	9.51	5.36
	℄	
	66.98	
	9.60	
	℄	
71.13	67.04	71.16
5.45	9.54	5.42
	℄	
71.21	67.08	71.25
5.37	9.50	5.33
	℄ Conc.	

30	+	H.I.	−	Elev.	℄ Grade
		1476.58			
+25 End Pavement					1467.10
+50					67.08
+75					67.06
434+00					67.04
			5.21	1471.37	T.P.
	4.85	1476.22			
+25					67.02
+50					67.00
+75					66.98
435+00					1466.96
+25					66.94
+50					66.92
+75					66.90
436+00					66.88
+25					66.86

0.08% Grade

1476.58 H.I.

71.34 5.24 | 67.05 9.53 ℄ Conc. | 71.29 5.29

71.22 5.36 | 66.83 9.75 ℄ | 71.29 5.29 — 66.97 9.61 ℄

71.22 5.36 | 66.76 9.82 ℄ | 71.32 5.26

71.18 5.40 | 66.78 9.80 ℄ | 71.46 5.12

1476.22 H.I.

71.21 5.01 | 66.71 9.51 ℄ | 71.24 4.98

71.15 5.07 | 66.63 9.59 ℄ | 71.21 5.01 — 66.92 9.30 ℄

71.11 5.11 | 66.69 9.53 ℄ | 71.12 5.10

71.09 5.13 | 66.44 9.78 ℄ | 71.03 5.19 — 66.85 9.37 ℄

71.12 5.10 | 66.56 9.66 ℄ | 71.04 5.18

70.99 5.23 | 66.55 9.67 ℄ | 71.12 5.10

71.05 5.17 | 66.49 9.73 ℄ | 71.02 5.20

71.01 5.21 | 66.54 9.68 ℄ | 70.95 5.27

70.83 5.39 | 66.56 9.66 ℄ | 70.95 5.27

31

	+	H.I.	−	Elev.	℄ Grade
		1476.22			
+50					1466.84
+75					66.82
437+00					66.80
+25					66.78
			5.25	1470.97 TP	
	5.45	1476.42			
+50					66.76
+75					66.74
438+00					66.72
+25					66.70
+50					66.68
+75					66.66
439+00					66.64
+25					66.62
+50					66.60

−0.08 ℄ Grade

1476.22 H.I.

71.01	66.51	71.02
5.21	9.71 ℄	5.20
71.00	66.58	71.02
5.22	9.64 ℄	5.20
70.98	66.67	70.97
5.24	9.55 ℄	5.25
70.97	66.55	71.00
5.25	9.67 ℄	5.22

66.69
9.53 ℄

1476.42 H.I.

70.97	66.50	70.96
5.45	9.92 ℄	5.46
70.92	66.67	70.92
5.50	9.75 ℄	5.50
70.93	66.44	70.87
5.49	9.98 ℄	5.55
70.74	66.28	70.85
5.68	10.14 ℄	5.57
70.82	66.22	70.82
5.60	10.20 ℄	5.60
70.92	66.46	70.87
5.50	9.96 ℄	5.55
70.79	66.30	70.77
5.63	10.12 ℄	5.65
70.70	66.36	70.77
5.72	10.06 ℄	5.65
70.72	66.30	70.76
5.70	10.12 ℄	5.66

66.54
9.88 ℄

	+	H.I. 1476.42	−	Elev.	℄ Grade
+75					1466.58
			4.76	1471.66	
				1471.67 B.M.	

B.M. – Spk. in Hub 15' Lt. 440+00

	+	H.I.	−	Elev.	℄ Grade
4	3.74	1475.41			
440+00					1466.56
+25					66.54
+50					66.52
+75					66.50
4 441+00					66.48
+25					66.46
+50					66.44
+75					66.42
4. 442+00					66.40
+25					66.38
+50					66.36

−0.08 % Grade

1476.42 H.I.

70.68 / 5.74	66.30 / 10.12 ℄	70.67 / 5.75

1475.41 H.I.

70.65 / 4.76	66.13 / 9.28 ℄	70.63 / 4.78
70.62 / 4.79	66.21 / 9.20 ℄	70.65 / 4.76
70.56 / 4.85	66.11 / 9.30 ℄	70.61 / 4.80
70.66 / 4.75	66.20 / 9.21 ℄	70.66 / 4.75
70.64 / 4.67	66.34 / 9.07 ℄	70.65 / 4.76
70.58 / 4.83	66.03 / 9.38 ℄	70.61 / 4.80
70.52 / 4.89	66.11 / 9.30 ℄	70.62 / 4.79
70.53 / 4.88	65.71 / 9.70 ℄	70.64 / 4.77
70.63 / 4.78	66.01 / 9.40 ℄	70.66 / 4.75
70.47 / 4.94	65.87 / 9.54 ℄	70.52 / 4.89
70.41 / 5.00	66.08 / 9.33 ℄	70.50 / 4.91

33	+	H.I.	−	Elev.	℄ Grade
		1475.41			
+75					1466.34
443+00					66.32
			4.94	1470.47	T.P.
	6.70	1477.17			
+25					66.30
+50					66.28
+75					66.26
444+00					66.24
+25					66.22
+50					66.20
+75					66.18
445+00				Gr. Break →	1466.16
+25					66.14
+50					66.11
+75					66.09

1475.41 H.I.

70.46 66.03 70.51
4.95 9.38 4.90
℄

70.45 66.05 70.56
4.96 9.36 4.85
℄

1477.17 H.I.

70.46 66.04 70.47
6.71 11.13 6.70
℄

70.33 66.13 70.39
6.84 11.04 6.78
℄

66.32
10.95
℄

70.48 65.97 70.46
6.69 11.20 6.71
℄

70.38 65.90 70.38
6.79 11.27 6.79
℄

66.17
11.00
℄

70.37 65.94 70.33
6.80 11.23 6.84
℄

70.35 65.97 70.45
6.82 11.20 6.72
℄

70.43 65.97 70.37
6.74 11.20 6.80
℄

70.35 65.84 70.41
6.82 11.33 6.76
℄

70.29 65.60 70.34
6.88 11.50 6.83
℄

70.28 65.80 70.30
6.89 11.37 6.87
℄

70.21 65.83 70.24
6.96 11.34 6.93
℄

34	+	H.I. 1477.17	−	Elev.	℄ Grade
446+00					1466.06
+25					66.04
+50					66.01
+71.5 E. End Flume #19					65.99
+75					65.99
447+00					65.96
+25					65.94
+50					65.91
+75					65.89
448+00					65.86
+25					65.84
+50					65.81
+75					65.79

1477.17 H.I.

70.10 7.07 | 65.75 11.42 ℄ | 70.14 7.03

70.14 7.03 | 65.67 11.50 ℄ | 70.20 6.97

65.97 11.20 ℄

70.21 6.96 | 65.70 11.47 ℄ | 70.27 6.90

70.12 7.05 | 66.00 11.17 ℄ | 70.14 7.03

65.87 11.30 ℄

65.89 11.28 ℄

65.83 11.34 ℄

65.63 11.54 ℄

65.61 11.56 ℄

65.60 11.57 ℄

65.67 11.50 ℄

65.73 11.44 ℄

65.62 11.55 ℄

35	+	H.I. 1477.17	−	Elev.	℄ Grade
449 +00					1465.76
+25					65.74
+50					65.71
+75					65.69
+96 ± W. End Flume #19					65.66
450 +00				Gr. Break →	1465.66
			11.49	1465.68	
				1465.70	B.M.

B.M. - Spk. in Hub 25' Lt 450+00

9.02 1474.72

+25	1465.64
+50	65.62
+75	65.60
451+00	65.58
+25	65.56
+50	65.54

1477.17 H.I.

65.66
11.51
℄

65.54
11.63
℄

65.66
11.51
℄

65.66
11.51
℄

69.70 65.73 69.77
7.47 11.44 7.40
℄ Conc.

69.77 65.27 69.93
7.40 11.90 7.24
℄

1474.72 H.I.

69.88 65.30 69.92
4.84 9.42 4.80
℄

69.90 65.59 69.88
4.82 9.13 4.84
℄

69.85 65.45 69.85
4.87 9.27 4.87
℄

69.89 65.57 69.84
4.83 9.15 4.88
℄

69.78 65.61 69.94
4.94 9.11 4.78
℄

69.74 65.42 69.78
4.98 9.30 4.94
℄

65.61
9.11
℄

36	+	H.I.	−	Elev.	@ Grade
		1474.72			
+75					1465.52
452+00					65.50
+25					65.48
+50					65.46
+75					65.44
453+00					65.42
+25					65.40
+50					65.38
			5.00	1469.72	TP.
	4.49	1474.21			
+75					65.36
454+00					65.34
+25					65.32
+50					65.30
+75					65.28

1474.72 H.I.

69.59	65.37	69.81
5.13	9.35 ℄	4.91
69.68	65.31	69.70
5.04	9.41 ℄	5.02
69.71	65.34	69.80
5.01	9.38 ℄	4.92
69.69	65.32	69.76
5.03	9.40 ℄	4.96
69.70	65.32	69.68
5.02	9.40 ℄	5.04
69.67	65.12	69.66
5.05	9.60 ℄	5.06
69.73	65.26	69.81
4.99	9.46 ℄	4.91
69.69	65.30	69.71
5.03	9.42 ℄	5.01

65.48
9.24
℄

65.44
9.28
℄

1474.21 H.I.

69.60	65.27	69.66
4.61	8.94 ℄	4.55
69.51	65.16	69.59
4.70	9.05 ℄	4.62
69.63	65.01	69.56
4.58	9.20 ℄	4.65
69.57	65.11	69.57
4.64	9.10 ℄	4.64
69.57	65.11	69.49
4.64	9.10 ℄	4.72
2' Back	Under Bridge	2' Back

65.29
8.92
℄

37	+	H.I.	−	Elev.	@ Grade
		1474.21			
455+00					1465.26
+25					65.24
			4.41	1469.80	T.P.
	4.56	1474.36			
+50					65.22
+75					65.20
456+00					65.18
+25					65.16
+50					65.14
+75					65.12
457+00					65.10
+25					65.08
+50					65.06
+75					65.04
458+00					65.02

1474.21 H.I.

69.46 4.75 | 65.00 9.21 ℄ | 69.40 4.81

69.49 4.72 | 64.83 9.38 ℄ | 69.49 4.72

1474.36 H.I.

69.52 4.84 | 64.26 10.10 ℄ | 69.50 4.86

69.57 4.79 | 64.61 9.75 ℄ | 69.51 4.85

69.51 4.85 | 64.80 9.56 ℄ | 69.47 4.89

69.46 4.90 | 64.80 9.56 ℄ | 69.48 4.88

69.42 4.94 | 64.80 9.56 ℄ | 69.45 4.91

69.43 4.93 | 64.73 9.63 ℄ | 69.48 4.88

69.37 4.99 | 64.76 9.60 ℄ | 69.34 5.02

69.34 5.02 | 64.96 9.40 ℄ | 69.35 5.01

69.35 5.01 | 64.72 9.64 ℄ | 69.59 4.77

69.36 5.00 | 64.46 9.90 ℄ | 69.41 4.95

69.34 5.02 | 64.60 9.76 ℄ | 69.38 4.98

65.25 9.11 ℄ Very low

65.14 9.22 ℄ Very low

65.03 9.33 ℄

38

Jan. 9-'28
Ward - Notes
Duermit - Lev.
McBain - Rod

	+	H.I.	−	Elev.	℄ Grade
		1474.36			
			5.04	1469.32	TP
	5.55	1474.87			
+25					1465.00
+50					64.98
+75					64.96
459+00					64.94
+25					64.92
+50					64.90
+75					64.88
460+00					1464.86
+25					64.84
+50					64.82
			5.70	1469.17	
				1469.15	B.M.

B.M. - Spk. in Hub 16' Lt. 460+50

	6.22	1475.37
+75		64.80

1474.87 H.I.

69.36	65.0	69.37
5.51	9.9 ℄	5.50
69.27	64.8	69.28
5.60	10.1 ℄	5.59
69.30	65.0	69.30
5.57	9.9 ℄	5.57
69.29	65.0	69.27
5.58	9.9 ℄	5.60
69.23	64.8	69.20
5.64	10.1 ℄	5.67
69.17	64.8	69.12
5.70	10.1 ℄	5.75
69.10	64.8	69.02
5.77	10.1 ℄	5.85
69.15	64.7	69.02
5.72	10.2 ℄	5.85
69.06	64.8	69.16
5.81	10.1 ℄	5.71
69.01	64.8	69.17
5.86	10.1 ℄	5.70

64.91
9.96 ℄

1475.37 H.I.

69.02	64.7	69.06
6.35	10.7 ℄	6.31

39	+	H.I.	−	Elev.	℄ Grade
		1475.37			
461+00					1464.78
+25					64.76
+50					64.74
+75					64.72
462+00					64.70
+25					64.68
+50					64.66
+75					64.64
			5.81	1469.56	T.P.
	4.87	1474.43			
463+00					64.62
+25					64.60
+50					64.58
+75					64.56
464+00					64.54

-0.08 %

1475.37 H.I.

68.98	64.7	69.05	64.77
6.39	10.7 ℄	6.32	10.60 ℄
69.03	64.5	69.06	
6.34	10.9 ℄	6.31	
69.14	64.5	69.07	
6.23	10.9 ℄	6.30	
69.07	64.6	69.05	
6.30	10.8 ℄	6.32	
68.86	64.6	68.92	
6.51	10.8 ℄	6.45	
69.01	64.6	68.89	
6.36	10.8 ℄	6.48	
68.93	64.7	68.83	
6.44	10.7 ℄	6.54	
68.95	64.5	68.95	
6.42	10.9 ℄	6.42	

1474.43 H.I.

68.93	64.4	68.92	
5.50	10.0 ℄	5.51	
68.91	64.5	68.83	
5.52	9.9 ℄	5.60	
69.91	64.4	68.82	
5.52	10.0 ℄	5.61	
68.84	64.4	68.72	
5.59	10.0 ℄	5.71	
68.65	64.3	68.69	64.50
5.78	10.1 ℄	5.74	9.93 ℄

40	+	H.I.	−	Elev.	℄ Grade
		1474.43			
+25					1464.52
+50					64.50
+75					64.48
465+00					64.46
+25					64.44
			5.48	1468.95 T.P.	
	4.46	1473.41			
+50					64.42
+75					64.40
466+00					64.38
+25					64.36
+50					64.34
+65 ℄ Beg. Flume № 20					64.33
+75					64.32
467+00					64.30

1474.43 H.I.

68.76	64.3	68.83
5.67	10.1	5.60
	℄	
68.63	64.2	68.67
5.80	10.2	5.76
	℄	
68.69	64.1	68.71
5.74	10.3	5.72
	℄	
68.64	64.2	68.70
5.79	10.2	5.73
	℄	
68.66	64.3	68.81
5.77	10.1	5.62
	℄	

1473.41 H.I.

68.67	64.2	68.65
4.74	9.2	4.76
	℄	
68.64	64.1	68.62
4.77	9.3	4.79
	℄	
68.64	64.3	68.53
4.77	9.1	4.88
	℄	
68.62	64.1	68.54
4.79	9.3	4.87
	℄	
68.60	64.0	68.51
4.81	9.4	4.90
	℄	
68.45	64.35	68.36
4.96	9.05	5.05
	℄ Conc.	
	64.2	
	9.2	
	℄	
	64.1	
	9.3	
	℄	

64.44
8.97
℄

41	+	H.I.	−	Elev.	℄ Grade
		1473.41			
467+17.2 End Flume #20					1464.27
+25					64.28
+50					64.26
+75					64.24
468+00					64.22
+25					64.20
+50					64.18
+75					64.16
			4.60	1468.81	T.P.
	3.99	1472.80			
469+00					64.14
+25					64.12
+50					64.10
+75					64.08
			3.86	1468.94	
B.M. – Spk. in Hub		15' Lt. 469+85		1468.95	B.M.
	4.09	1473.04			

-0.08%

1473.41 H.I.

68.40 5.01	64.26 9.15 ℄ Conc.	68.40 5.01
68.57 4.84	64.1 9.3 ℄	68.47 4.94
68.45 4.96	64.0 9.4 ℄	68.40 5.01
68.36 5.05	63.9 9.5 ℄	68.40 5.01
68.35 5.06	63.8 9.6 ℄	68.42 4.99
68.33 5.08	63.9 9.5 ℄	68.34 5.07
68.51 4.90	64.1 9.3 ℄	68.37 5.04
68.39 5.02	64.0 9.4 ℄	68.38 5.03

1472.80 H.I.

68.23 4.57	64.0 8.8 ℄	68.41 4.39
68.33 4.47	64.1 8.7 ℄	68.29 4.51
68.32 4.48	63.9 8.9 ℄	68.45 4.35
68.22 4.58	63.8 9.0 ℄	68.22 4.58

64.05
8.75 ℄

42	+	H.I. 1473.04	−	Elev.	℄ Grade
470+00					1464.06
+25					64.04
+50					64.02
+75					64.00
471+00					63.98
+25					63.96
+50					63.94
+75					63.92
472+00					63.90
+25					63.88
+50					63.86
+75					63.84
473+00					63.82

1473.04 H.I.

68.18 4.86	63.6 9.4 ℄	68.16 4.88
68.27 4.77	63.7 9.3 ℄	68.30 4.74
68.26 4.78	63.7 9.3 ℄	68.28 4.76
68.24 4.80	63.6 9.4 ℄	68.36 4.68
68.25 4.79	63.9 9.1 ℄	68.20 4.84
68.18 4.86	63.7 9.3 ℄	68.13 4.91
68.11 4.93	63.8 9.2 ℄	68.18 4.86
68.19 4.85	63.8 9.2 ℄	68.12 4.92
68.14 4.90	63.8 9.2 ℄	68.14 4.90
68.08 4.96	63.7 9.3 ℄	68.12 4.92
68.09 4.95	63.8 9.2 ℄	68.06 4.98
68.04 5.00	63.7 9.3 ℄	68.04 5.00
67.97 5.07	63.7 9.3 ℄	68.03 5.01

℄ 63.97 9.07

Sta.	+	H.I.	−	Elev.	℄ Grade
		1473.04			
+25					1463.80
			5.00	1468.04 T.P.	
	4.60	1472.64			
+50					63.78
+75					63.76
474+00					63.74
+25					63.72
+50					63.70
+75					63.68
475+00					63.66
+25					63.64
+50					63.62
+75					63.60
+92.5 Beg. Flume No 21					63.59
476+00					63.58

-0.08%

1473.04 H.I.

Left	℄	Right
68.00 / 5.04	63.6 / 9.4 ℄	68.00 / 5.04

1472.64 H.I.

Left	℄	Right	
67.97 / 4.67	63.6 / 9.0 ℄	68.00 / 4.64	
67.97 / 4.67	63.5 / 9.1 ℄	68.00 / 4.64	
68.00 / 4.64	63.6 / 9.0 ℄	67.94 / 4.70	63.71 / 8.93 ℄
67.86 / 4.78	63.6 / 9.0 ℄	67.98 / 4.66	
67.80 / 4.80	63.3 / 9.3 ℄	67.86 / 4.78	
67.83 / 4.81	63.1 / 9.5 ℄	67.83 / 4.81	
67.84 / 4.80	63.4 / 9.2 ℄	67.95 / 4.69	63.60 / 9.04 ℄
67.86 / 4.78	63.4 / 9.2 ℄	67.87 / 4.77	
67.75 / 4.89	63.4 / 9.2 ℄	67.73 / 4.91	
67.69 / 4.95	63.4 / 9.2 ℄	67.93 / 4.71	
67.59 / 5.05	63.55 / 9.09 ℄ Conc.	67.69 / 4.95	
	63.5 / 9.1 ℄		

	+	H.I.	−	Elev.	& Grade
444		1472.64			
476+19.8 End Flume #21					1463.56
+25					63.56
+50					63.54
+75					63.52
477+00					63.50
+25					63.48
+50					63.46
+75					63.44
			5.08	1467.56	T.P.
	4.74	1472.30			
478+00					63.42
+25					63.40
+50					63.38
+75					63.36
479+00					63.34

0.08%

1472.64 H.I.

67.64	63.50	67.62
5.00	9.10 ℄ Conc.	5.02
67.72	63.2	67.75
4.92	9.4 ℄	4.89
67.70	63.3	67.70
4.94	9.3 ℄	4.94
67.62	63.3	67.69
5.02	9.3 ℄	4.95
67.61	63.4	67.79
5.03	9.2 ℄	4.85
67.71	63.3	67.68
4.93	9.3 ℄	4.96
67.64	63.3	67.54
5.00	9.3 ℄	5.10
67.68	63.3	67.70
4.96	9.3 ℄	4.94

1472.30 H.I.

67.57	63.2	67.67
4.73	9.1 ℄	4.63
67.60	63.2	67.60
4.70	9.1 ℄	4.70
67.60	63.3	67.59
4.70	9.0 ℄	4.71
67.59	63.3	67.60
4.71	9.0 ℄	4.70
67.46	63.1	67.47
4.84	9.2 ℄	4.83

63.28
9.02
℄

45	+	H.I.	−	Elev.	℄ Grade
		1472.30			
+ 25					1463.32
+ 50					63.30
			4.01	1468.29	
BM. - Spk. in Hub 18' Lt. 479+65 =				1468.30	BM.
		6.48	1474.78		
+ 75					63.28
480+00					1463.26
+ 25					63.24
+ 50					63.22
+ 75					63.20
481+00					63.18
+ 25					63.16
+ 50					63.14
+ 75					63.12
482+00					63.10

1472.30 H.I.

67.45	63.0	67.45
4.85	9.3 ℄	4.85
67.50	63.1	67.52
4.80	9.2 ℄	4.78

1474.78 H.I.

67.44	63.2	67.49
7.34	11.6 ℄	7.29
67.40	63.2	67.49
7.38	11.6 ℄	7.29
67.36	63.1	67.38
7.42	11.7 ℄	7.40
67.32	63.0	67.37
7.46	11.8 ℄	7.41
67.20	63.0	67.42
7.58	11.8 ℄	7.36
67.26	62.9	67.42
7.52	11.9 ℄	7.36
67.33	62.9	67.28
7.45	11.9 ℄	7.50
67.31	63.0	67.25
7.47	11.8 ℄	7.53
67.27	63.0	67.35
7.51	11.8 ℄	7.43
67.23	63.0	67.18
7.55	11.8 ℄	7.60

63.09
11.67 ℄

46	+	H.I.	−	Elev.	℄ Grade
		1474.78			
+25					1463.08
+50					63.06
+75					63.04
483+00					63.02
			7.41	1467.37	TP.
	4.55	1471.92			
+25					63.00
+50					62.98
+75					62.96
484+00					62.94
+25					62.92
+50					62.90
+75					62.88
485+00					62,86
+25					62.84

1474.78 H.I.

67.24 7.54 | 63.0 11.8 ℄ | 67.21 7.57

67.18 7.60 | 62.9 11.9 ℄ | 67.28 7.50

67.23 7.55 | 62.9 11.9 ℄ | 67.26 7.52

67.23 7.55 | 63.0 11.8 ℄ | 67.15 7.63

1471.92 H.I.

67.10 4.82 | 62.9 9.0 ℄ | 67.21 4.71

67.11 4.81 | 62.8 9.1 ℄ | 67.17 4.75

67.20 4.72 | 62.8 9.1 ℄ | 67.08 4.84

67.24 4.68 | 62.9 9.0 ℄ | 67.06 4.86

67.09 4.83 | 62.8 9.1 ℄ | 67.19 4.73

67.03 4.89 | 62.6 9.3 ℄ | 67.04 4.88

67.05 4.87 | 62.8 9.1 ℄ | 67.26 4.66

67.08 4.84 | 62.8 9.1 ℄ | 67.02 4.90

67.11 4.81 | 62.7 9.2 ℄ | 67.04 4.88

47	+	H.I.	−	Elev.	℄ Grade
		1471.92			
+50					1462.82
+75					62.80
			4.06	1467.86	TP
	5.96	1473.82			
486+00					62.78
+25					62.76
+50					62.74
+75					62.72
487+00					62.70
+25					62.68
+50					62.66
+75					62.64
487+88.2 / 488+00 Equation				Equation →	1462.63
			5.12	1468.70	
B.M. - Spk. in Hub 12' Lt. 488+00 =				1468.71	B.M.
	3.29	1472.00			

1471.92 H.I.

67.19	62.7	67.14
4.73	9.2 ℄	4.78
67.02	62.7	66.99
4.90	9.2 ℄	4.93

62.71
9.21 ℄

1473.82 H.I.

66.77	62.4	66.71
7.05	11.4 ℄	7.11
66.86	62.5	66.79
6.96	11.3 ℄	7.03
66.92	62.7	66.92
6.90	11.1 ℄	6.90
66.90	62.3	66.81
6.92	11.5 ℄	7.01
66.95	62.7	66.87
7.07	11.1 ℄	6.95
66.74	62.6	66.76
7.08	11.2 ℄	7.06
66.70	62.5	66.78
7.12	11.3 ℄	7.04
66.79	62.2	66.85
7.03	11.6 ℄	6.97
66.82	62.5	66.93
7.00	11.3 ℄	6.89

48	+	H.I. 1472.00	−	Elev.	± Grade
488+25					1462.61
+50					62.59
+75					62.57
489+00					62.55
+25					62.53
+50					62.51
+75					62.49
490+00					1462.47
+25					62.45
+50					62.43
+75					62.41
491+00					62.39
+25					62.37

1472.00 H.I.

66.73 5.27	62.5 9.5 ℄	66.70 5.30
66.68 5.32	62.4 9.6 ℄	66.71 5.29
66.77 5.23	62.4 9.6 ℄	66.86 5.14
66.74 5.26	62.2 9.8 ℄	66.80 5.20
66.81 5.19	62.4 9.6 ℄	66.77 5.23
66.63 5.37	62.2 9.8 ℄	66.57 5.43
66.57 5.43	62.3 9.7 ℄	66.64 5.36
66.71 5.29	62.2 9.8 ℄	66.57 5.43
66.35 5.65	62.3 9.7 ℄	66.63 5.37
66.54 5.46	62.1 9.9 ℄	66.47 5.53
66.53 5.47	62.1 9.9 ℄	66.47 5.53
66.63 5.37	62.3 9.7 ℄	66.58 5.42
66.40 5.60	62.2 9.8 ℄	66.66 5.34

62.40
9.60
℄

49	+	H.I. 1472.00	−	Elev.	℄ Grade
+50					1462.35
+75					62.33
492+00					62.31
+25					62.29
			5.48	1466.52 T.P.	
	4.71	1471.23			
+50					62.27
+75					62.25
493+00					62.23
+25					62.21
+50					62.19
+75					62.17
494+00					62.15
+25					62.13
+50					62.11

−0.08%

1472.00 H.I.

66.54 / 5.46	62.3 / 9.7 ℄	66.49 / 5.51	62.30 / 9.70 ℄
66.67 / 5.33	62.2 / 9.8 ℄	66.52 / 5.48	
66.54 / 5.46	62.1 / 9.9 ℄	66.43 / 5.57	
66.58 / 5.42	62.2 / 9.8 ℄	66.49 / 5.51	

1471.23 H.I.

66.53 / 4.70	62.0 / 9.2 ℄	66.53 / 4.70	
66.49 / 4.74	62.1 / 9.1 ℄	66.62 / 4.61	
66.52 / 4.71	61.7 / 9.5 ℄	66.65 / 4.58	
66.43 / 4.80	61.7 / 9.5 ℄	66.49 / 4.74	
66.43 / 4.80	61.8 / 9.4 ℄	66.51 / 4.72	
66.39 / 4.84	62.0 / 9.2 ℄	66.49 / 4.74	
66.40 / 4.83	62.0 / 9.2 ℄	66.42 / 4.81	62.12 / 9.11 ℄
66.41 / 4.82	61.9 / 9.3 ℄	66.33 / 4.90	
66.42 / 4.81	61.9 / 9.3 ℄	66.33 / 4.90	

50	+	H.I.	−	Elev.	℄ Grade
		1471.23			
+75					1462.09
495+00					62.07
+25					62.05
			4.99	1466.24	T.P.
	7.54	1473.78			
+50					62.03
+75					62.01
496+00					61.99
+25					61.97
+50					61.95
+75					61.93
497+00					61.91
+25					61.89
+50					61.87
+75					61.85

1471.23 H.I.

66.31 4.92	61.9 9.3 ℄	66.38 4.85
66.29 4.94	61.8 9.4 ℄	66.30 4.93
66.30 4.93	61.7 9.5 ℄	66.34 4.89

1473.78 H.I.

66.23 7.55	61.7 12.1 ℄	66.18 7.60
66.27 7.51	61.8 12.0 ℄	66.27 7.51
66.28 7.50	61.8 12.0 ℄	66.29 7.49
66.27 7.51	61.7 12.1 ℄	66.26 7.52
66.20 7.58	61.5 12.3 ℄	66.26 7.52
66.07 7.71	61.5 12.3 ℄	66.24 7.54
65.94 7.84	61.6 12.2 ℄	66.05 7.73
66.00 7.78	61.5 12.3 ℄	66.09 7.69
66.10 7.68	61.5 12.3 ℄	66.05 7.73
65.92 7.86	61.7 12.1 ℄	66.05 7.73

61.83
11.95
℄

51	+	H.I.	−	Elev.	℄ Grade
		1473.78			
498+00					1461.83
+25					61.81
+50					61.79
+75					61.77
499+00					61.75
+25					61.73
			6.85	1466.93	
B.M.-Spk. in Hub 15' Lt. 499+35 = 1466.92 B.M.					
	3.77	1470.70			
+50					61.71
+75					61.69
500+00					1461.67
+25					61.65
			4.01	1466.69	T.P. -Nail on Rt Side of Ditch
	4.00	1470.69			
+50					61.63
+75					61.61

−0.08%

1473.78 H.I.

65.87 / 7.91	61.7 / 12.1 ℄	66.16 / 7.62
65.86 / 7.92	61.7 / 12.1 ℄	66.02 / 7.76
65.82 / 7.96	61.8 / 12.0 ℄	66.06 / 7.72
65.88 / 7.90	61.7 / 12.1 ℄	65.96 / 7.82
65.95 / 7.83	61.6 / 12.2 ℄	66.04 / 7.74
65.92 / 7.86	61.5 / 12.3 ℄	65.96 / 7.82

1470.70 H.I.

65.98 / 4.72	61.1 / 9.6 ℄	65.99 / 4.71
66.01 / 4.69	61.5 / 9.2 ℄	65.88 / 4.82
65.86 / 4.84	61.5 / 9.2 ℄	65.81 / 4.89
65.95 / 4.75	61.4 / 9.3 ℄	66.09 / 4.61

1470.69 H.I.

65.65 / 5.04	61.4 / 9.3 ℄	65.69 / 5.00
65.71 / 4.98	61.4 / 9.3 ℄	65.71 / 4.98

Feb-2-28
Ward - Notes
Duerant - Inst.
McBain - Rod

52	+	H.I.	−	Elev.	% Grade
		1470.69			
501+00					1461.59
+25					61.57
+50					61.55
+75					61.53
502+00					61.51
+25					61.49
			5.04	1465.65 TP	
	6.15	1471.80			
+50					61.47
+75					61.45
503+00					61.43
+25					61.41
+50					61.39
+75					61.37

8/60.01

1470.69 H.I.

65.72	61.3	65.68
4.97	9.4 ℄	5.01
65.64	61.5	65.64
5.05	9.2 ℄	5.05
65.73	61.4	65.87
4.96	9.3 ℄	4.82
65.62	61.5	65.57
5.07	9.2 ℄	5.12
65.61	61.3	65.59
5.08	9.4 ℄	5.10
65.67	61.4	65.62
5.02	9.3 ℄	5.07

1471.80 H.I.

65.65	61.3	65.69
6.15	10.5 ℄	6.11
65.66	61.2	65.62
6.14	10.6 ℄	6.18
65.61	61.2	65.68
6.19	10.6 ℄	6.12
65.66	61.1	65.68
6.14	10.7 ℄	6.12
65.57	61.2	65.69
6.23	10.6 ℄	6.11
65.47	61.2	65.61
6.33	10.6 ℄	6.19

53

	+	H.I.	−	Elev.	& Grade
		1471.80			
504+00					1461.35
+25					61.33
+50					61.31
			6.26	1465.54	TP
	6.03	1471.57			
+75					61.29
505+00					61.27
+25					61.25
+50					61.23
+75					61.21
506+00					61.19
+25					61.17
+50					61.15
+75					61.13

-0.80 %

1471.80 H.I.

65.45 61.2 65.50
6.35 10.6 6.30
℄

65.44 61.2 65.43
6.36 10.6 6.37
℄

65.43 61.1 65.43
6.37 10.7 6.37
℄

1471.57 H.I.

65.43 61.2 65.43
6.14 10.4 6.14
℄

65.40 61.2 65.39
6.17 10.4 6.18
℄

65.31 61.1 65.41
6.26 10.5 6.16
℄

65.35 61.2 65.34
6.22 10.4 6.23
℄

65.27 61.1 65.35
6.30 10.5 6.22
℄

65.27 61.0 65.31
6.30 10.6 6.26
℄

65.28 61.1 65.33
6.29 10.5 6.24
℄

65.39 61.1 65.35
6.18 10.5 6.22
℄

65.37 61.0 65.37
6.20 10.6 6.20
℄

54	+	H.I.	−	Elev.	℄ Grade
		1471.57			
507+00					1461.11
+25					61.09
+50					61.07
			6.27	1465.30	TP
	4.36	1469.66			
+75					61.05
508+00					61.03
+25					61.01
+50					1460.99
+75					60.97
509+00					60.95
+25					60.93
+50					60.91
			4.26	1465.40	
				1465.39	B.M.

B.M. – Spk. in Hub 15' Lt. 509+50

1471.57 H.I.

65.34	61.0	65.37
6.23	10.6 ℄	6.20
65.28	61.0	65.31
6.29	10.6 ℄	6.26
65.26	60.9	65.24
6.31	10.7 ℄	6.33

1469.66 H.I.

65.19	60.9	65.12
4.47	8.8 ℄	4.54
65.12	60.9	65.16
4.54	8.8 ℄	4.50
65.15	60.8	65.20
4.51	8.7 ℄	4.46
65.06	60.9	65.11
4.60	8.8 ℄	4.55
65.06	60.8	65.12
4.60	8.9 ℄	4.54
65.05	60.9	65.06
4.61	8.8 ℄	4.60
65.01	60.9	65.01
4.65	8.8 ℄	4.65
64.96	60.8	64.99
4.70	8.9 ℄	4.67

60.93
8.73 ℄

60.87
8.79 ℄

55	+	H.I.	−	Elev.	℄ Grade
				1465.39	B.M.
	3.62	1469.01			
+75					1460.89
510+00					1460.87
+25					60.85
+50					60.83
+75					60.81
511+00					60.79
+25					60.77
+50					60.75
+75					60.73
512+00					60.71
+25					60.69
+50					60.67
			3.80	1465.21	TP
	4.19	1469.40			

1469.01 H.I.

64.88	60.7	65.02
4.13	8.3 ℄	3.99
64.86	60.7	64.99
4.15	8.3 ℄	4.02
64.97	60.7	64.95
4.04	8.3 ℄	4.06
64.91	60.7	64.91
4.10	8.3 ℄	4.10
64.85	60.6	64.85
4.16	8.4 ℄	4.16
64.80	60.6	64.81
4.21	8.4 ℄	4.20
64.86	60.5	64.82
4.15	8.5 ℄	4.19
64.84	60.5	64.78
4.17	8.5 ℄	4.23
64.82	60.4	64.74
4.19	8.6 ℄	4.27
64.80	60.4	64.73
4.21	8.6 ℄	4.28
64.82	60.5	64.77
4.19	8.5 ℄	4.24
64.91	60.4	64.92
4.10	8.6 ℄	4.09

.56	+	H.I. 1469.40	−	Elev.	℄ Grade
+75					1460.65
513+00					60.63
+25					60.61
+50					60.59
+75					60.57
514+00					60.55
+25					60.53
+50					60.51
+75					60.49
515+00					1460.47
			4.58	1464.82	TP
	5.07	1469.89			
+25					60.445
+50					60.42

-0.08 ℄

-0.10 ℄

1469.40 H.I.

64.87	60.4	64.91
4.53	9.0 ℄	4.49
64.90	60.5	64.85
4.50	8.9 ℄	4.55
64.77	60.3	64.77
4.63	9.1 ℄	4.63
64.76	60.4	64.84
4.64	9.0 ℄	4.56
64.82	60.4	64.81
4.58	9.0 ℄	4.59
64.82	60.3	64.82
4.58	9.1 ℄	4.58
64.82	60.4	64.79
4.58	9.0 ℄	4.61
64.78	60.3	64.77
4.62	9.1 ℄	4.63
64.79	60.3	64.79
4.61	9.1 ℄	4.61
64.68	60.0	64.64
4.72	9.4 ℄	4.76

60.63

8.97 ℄

1469.89 H.I.

64.62	60.2	64.71
5.27	9.7 ℄	5.18
64.64	60.2	64.64
5.25	9.7 ℄	5.25

57	+	H.I. 1469.89	−	Elev.	℄ Grade
+75					1460.395
516					60.37
+25					60.345
+50					60.32
+75					60.295
517+00					60.27
			5.51	1464.38	T.P. 517 - Lt. Curb
	6.03	1470.41			
+25					60.245
+50					60.22
+75					60.195
518+00					60.17
+25					60.145
+50					60.12

Feb-6-28
Ward - Notes
Duermit - Leu
Mc Bain - Rod

1469.89 H.I.

64.49	60.1	64.62
5.40	9.8 ℄	5.27
64.41	60.3	64.52
5.48	9.6 ℄	5.37
64.44	60.1	64.46
5.45	9.8 ℄	5.43
64.43	60.1	64.45
5.46	9.8 ℄	5.44
64.39	59.9	64.44
5.50	10.0 ℄	5.45
64.41	60.1	64.43
5.48	9.8 ℄	5.46

1470.41 H.I.

64.48	60.1	64.41
5.93	10.3 ℄	6.00
64.36	59.8	64.33
6.05	10.6 ℄	6.08
64.30	59.7	64.33
6.11	10.7 ℄	6.08
64.27	59.8	64.24
6.14	10.6 ℄	6.17
64.28	59.9	64.42
6.13	10.5 ℄	5.99
64.47	60.0	64.45
5.94	10.4 ℄	5.96

58

+	H.I. 1470.41	−	Elev.	℄ Grade
+75				1460.095
519+00				60.07
+25				60.045
+50				60.02
+75				59.995
520+00				1459.97

6.29 1464.12

BM – Spk. in Hub 17' Lt. 520+00 = 1464.12 B.M.

5.20 1469.32

+25				59.945
+50				59.92
+75				59.895
521+00				59.87
+25				59.845
+50				59.82

1470.41 H.I.

64.40	60.0	64.34
6.01	10.4 ℄	6.07
64.43	60.0	64.36
5.98	10.4 ℄	6.05
64.31	59.8	64.35
6.10	10.6 ℄	6.06
64.45	59.8	64.36
5.96	10.6 ℄	6.05
64.30	59.8	64.23
6.11	10.6 ℄	6.18
64.32	59.8	64.18
6.09	10.6 ℄	6.23

1469.32 H.I.

64.30	59.9	64.27
5.02	9.4 ℄	5.05
64.07	59.9	63.97
5.25	9.4 ℄	5.35
64.06	59.8	64.06
5.26	9.5 ℄	5.26
64.05	59.7	63.99
5.27	9.6 ℄	5.33
64.07	59.6	63.98
5.25	9.7 ℄	5.34
63.89	59.7	63.95
5.43	9.7 ℄	5.37

	+	H.I.	−	Elev.	℄ Grade
		1469.32			
521+53⁸ Beg. Flume #22					1459.82
+75	Flume No 22				59.795
522+00					59.77
+25					59.745
+50					59.72
+73⁵ End Flume 22.					59.70
+75					59.695
523+00					59.67
			5.54	1463.78 T.P.	
	4.72	1468.50			
+25					59.64
+50					59.62
+75					59.595
524+00					59.57

0.10%

1469.32 H.I.

63.88 5.44 — 59.85 9.47 — 63.91 5.41
℄ Beg Flume
59.7 9.6 ℄
59.7 9.6 ℄
59.6 9.7 ℄
59.5 9.8 ℄
59.57 9.75
℄ End Flume
63.75 5.57 — 59.5 9.80 ℄ — 63.78 5.54
63.75 5.57 — 59.4 9.9 ℄ — 63.74 5.58

1468.50 H.I.

63.74 4.76 — 59.4 9.1 ℄ — 63.70 4.80
63.70 4.80 — 59.4 9.1 ℄ — 63.66 4.84
63.71 4.79 — 59.4 9.1 ℄ — 63.79 4.71
63.67 4.83 — 59.4 9.1 ℄ — 63.73 4.77

60	+	H.I. 1468.50	−	Elev.	℄ Grade
+25				1454.545	
+50				59.52	
+75				59.495	
525+00				1459.47	
+25				59.45	
+50				59.43	
+75				59.41	
526+00				59.39	
+25				59.37	
+50				59.35	
			4.94	1463.56	TP
	6.41	1469.97			
+75				59.33	
527+00				59.31	

1468.50 H.I.

63.65	59.4	63.70
4.85	9.1	4.80
	℄	
63.62	59.4	63.68
4.88	9.1	4.82
	℄	
63.49	59.45	63.64
5.01	9.05	4.86
	℄	

Conc. over Culv.

63.52	59.2	63.53
4.98	9.3	4.97
	℄	
63.53	59.3	63.62
4.97	9.2	4.88
	℄	
63.72	59.2	63.71
4.78	9.3	4.79
	℄	
63.64	59.3	63.64
4.86	9.2	4.86
	℄	
63.51	59.2	63.61
4.99	9.3	4.89
	℄	
63.63	59.2	63.61
4.87	9.3	4.89
	℄	
63.66	59.3	63.60
4.84	9.2	4.90
	℄	

1469.97 H.I.

63.62	59.3	63.59
6.35	10.7	6.38
	℄	
63.74	59.2	63.72
6.23	10.8	6.25
	℄	

61

	+	H.I. 1469.97	−	Elev.
+25				1459.29
+50				59.27
+75				59.25
528+00				59.23
+25				59.21
+50				59.19
+75				59.17
529+00				59.15
+25				59.13
+50				59.11
+75				59.09
530+00				1459.07
			5.59	1464.38

B.M.-Spk. in Hub - 15' Lt 530+00 = 1464.38 B.M.
3.85 1468.23

1469.97 H.I.

63.62 6.35	59.1 10.9 ℄	63.67 6.30
63.53 6.44	59.1 10.9 ℄	63.65 6.32
63.55 6.42	59.1 10.9 ℄	63.53 6.44
63.57 6.40	59.1 10.9 ℄	63.60 6.37
63.44 6.53	59.1 10.9 ℄	63.59 6.38
63.50 6.47	59.0 11.0 ℄	63.54 6.43
63.42 6.55	59.0 11.0 ℄	63.40 6.57
63.32 6.65	59.0 11.0 ℄	63.43 6.54
63.32 6.65	59.0 11.0 ℄	63.34 6.61
63.34 6.63	59.0 11.0 ℄	63.36 6.61
63.33 6.64	59.0 11.0 ℄	63.37 6.60
63.29 6.68	59.0 11.0 ℄	63.32 6.65

59.06
10.91 ℄

62	+	H.I.	−	Elev.	
		1468.23			
+ 25				1459.05	
+ 50				59.03	
+ 75				59.01	
531+00				58.99	
+ 25				58.97	
+ 50				58.95	
+ 75				58.93	
532+00				58.91	
+ 25				58.89	
			4.89	1463.34	TP
	5.24	1468.58			
+ 50				58.87	
+ 75				58.85	
533+00				58.83	

0.08 ft

1468.23 H.I.

63.30	58.9	63.25
4.93	9.3 ℄	4.98
63.28	58.9	63.22
4.95	9.3 ℄	5.01
63.20	58.8	63.21
5.03	9.4 ℄	5.02
63.46	58.9	63.35
4.77	9.3 ℄	4.88
63.70	58.8	63.28
4.53	9.4 ℄	4.95
63.64	58.7	63.24
4.59	9.5 ℄	4.99
63.59	58.8	63.18
4.64	9.4 ℄	5.05
63.50	58.8	63.53
4.73	9.4 ℄	4.70
63.49	58.57	62.98
4.74	9.66	5.25

Conc. Culv. Top

1468.58 H.I.

63.49	58.8	62.94
5.09	9.8 ℄	5.64
63.58	58.7	63.02
5.00	9.9 ℄	5.56
63.51	58.6	63.09
5.07	10.0 ℄	5.49

63	+	H.I.	−	Elev.	
		1468.58			
+25					1458.81
+50					58.79
+75					58.77
			5.25	1463.33	T.P.
	4.92	1468.25			
534+00					58.75
+25					58.73
+50					58.71
+75					58.69
535+00					1458.67
+25					58.65
+50					58.63
+75					58.61
536+00					58.59

s/o 0.08

1468.58 H.I.

63.52	58.6	63.00
5.06	10.0	5.58
	℄	
63.45	58.7	62.96
5.13	9.9	5.62
	℄	
63.39	58.5	62.72
5.19	10.1	5.86
	℄	

1468.25 H.I.

63.40	58.7	62.90
4.85	9.6	5.35
	℄	
63.49	58.7	62.96
4.76	9.6	5.29
	℄	
63.38	58.6	62.94
4.87	9.7	5.31
	℄	
63.42	58.5	62.96
4.83	9.8	5.29
	℄	
63.35	58.5	62.92
4.90	9.8	5.33
	℄	
63.43	58.5	62.84
4.82	9.8	5.41
	℄	
63.36	58.6	62.90
4.89	9.7	5.35
	℄	
63.29	58.4	62.84
4.96	9.9	5.41
	℄	
63.17	58.4	62.67
5.08	9.9	5.58
	℄	

	+	H.I.	−	Elev.
		1468.25		
			5.03	1463.22 T.P.
	7.13	1470.35		
+25				1458.57
+50				58.55
+75				58.53
537+00				58.51
+25				58.49
+50				58.47
+75				58.45
538+00				58.43
+25				58.41
+50				58.39
			7.32	1463.03 T.P.
	4.70	1467.73		
+75				58.37
539+00				58.35

-0.08%

1470.35 H.I.

	℄	
63.12 / 7.23	58.3 / 12.1 ℄	62.80 / 7.55
63.14 / 7.21	58.5 / 11.9 ℄	62.58 / 7.77
63.18 / 7.17	58.5 / 11.9 ℄	62.75 / 7.60
63.23 / 7.12	58.4 / 12.0 ℄	62.72 / 7.63
63.14 / 7.21	58.4 / 12.0 ℄	62.69 / 7.66
63.17 / 7.18	58.3 / 12.1 ℄	62.65 / 7.70
63.15 / 7.20	58.5 / 11.9 ℄	62.63 / 7.72
63.20 / 7.15	58.3 / 12.1 ℄	62.67 / 7.68
63.14 / 7.21	58.3 / 12.1 ℄	62.59 / 7.76
63.05 / 7.30	58.4 / 12.0 ℄	62.64 / 7.71

1467.73 H.I.

	℄	
63.09 / 4.64	58.3 / 9.4 ℄	62.57 / 5.16
62.85 / 4.88	58.1 / 9.6 ℄	62.43 / 5.30

65

	+	H.I.	−	Elev.
		1467.73		
+25				1458.33
+50				58.31
+75				58.29
540+00 / 540+12	Equation			1458.27
+25				58.26
			4.85	1462.88

BM – Spk. in Hub 15' Lt. 540+35 = 1462.88 B.M.

6.82 1469.70

+50				58.24
+75				58.22
541+00				58.20
+25				58.18
+50				58.16
+75				58.14
542+00				58.12

8° 00' L

1467.73 H.I.

62.83	58.2	62.53
4.90	9.5	5.20
	℄	
62.82	58.2	62.50
4.91	9.5	5.23
	℄	
62.81	58.1	62.54
4.92	9.6	5.19
	℄	
63.06	58.0	62.51
4.67	9.7	5.22
	℄	
63.25	58.1	62.52
4.48	9.6	5.21
	℄	

1469.70 H.I.

62.94	58.3	62.41
6.76	11.4	7.29
	℄	
62.96	58.2	62.57
6.74	11.5	7.13
	℄	
62.73	58.3	62.27
6.97	11.4	7.43
	℄	
62.70	58.2	62.32
7.00	11.5	7.38
	℄	
62.70	58.0	62.61
7.00	11.7	7.09
	℄	
62.69	58.0	62.73
7.01	11.7	6.97
	℄	
62.62	58.1	62.67
7.08	11.6	7.03
	℄	

66

	+	H.I.	−	Elev.	
		1469.70			
+25				1458.10	
+50				58.08	
+75				58.06	
543+00				58.04	
+25				58.02	
+50				1458.00	
+75				57.98	
544+00				57.96	
+25				57.94	
+50				57.92	
			7.29	1462.41	T.P.
	5.89	1468.30			
+75				57.90	
545+00				1457.88	

0.08 ft

1469.70 H.I.

62.75	58.0	62.60
6.95	11.7	7.10
	℄	
62.63	58.0	62.70
7.07	11.7	7.00
	℄	
62.70	58.0	62.71
7.00	11.7	6.99
	℄	
62.60	58.1	62.55
7.10	11.6	7.15
	℄	
62.57	58.2	62.39
7.13	11.5	7.31
	℄	
62.40	57.9	62.35
7.30	11.8	7.35
	℄	
62.39	58.0	62.28
7.31	11.7	7.42
	℄	
62.35	58.2	62.30
7.35	11.5	7.40
	℄	
62.45	57.7	62.50
7.25	12.0	7.20
62.52	57.8	62.39
7.18	11.9	7.31
	℄	

1468.30 H.I.

62.35	57.7	62.47
5.95	10.6	5.83
	℄	
62.39	57.6	62.34
5.91	10.7	5.96
	℄	

67	+	H.I.	−	Elev.	
		1468.30			
+25					1457.86
			4.47	1463.83	B.M.

B.M. - Spk. in Hub - 20' Lt. 544 + 90

	3.25	1467.08			
+50					57.84
+75					57.82
546 +00					57.80
+25					57.78
+50					57.76
			5.13	1461.95	T.P.
	0.85	1462.80			
+75					57.74
547 +00					57.72
+25					57.70
+50					57.68

−0.08% Grade

1468.30 H.I.

62.36	57.6	62.43
5.94	10.7 ℄	5.87

1467.08 H.I.

62.05	57.8	
5.03	9.3 ℄	5.07
5.08	57.8 9.3 ℄	5.23
5.00	57.8 9.3 ℄	4.72
	57.7 9.4 ℄	
5.10	57.6 9.5 ℄	5.21

1462.80 H.I.

	57.5	
1.00	5.3 ℄	0.97
1.31	57.5 5.3 ℄	1.14
1.03	57.5 5.3 ℄	0.96
0.83	57.5 5.3 ℄	1.19

68 + H.I. − Elev.

1462.80

547+69
Portal Last Tunnel — 1457.665

+75

548+00

+25

Tunnel No 6. In Tunnel

557+50
Outlet End Tunnel — 1456.88

1462.80 H.I.

57.4
5.4
57.5
5.3
57.4
5.4
57.4
5.4
1456.7

Elev. at Lower Portal. Tunnel = 1456.7
" Approx 300' Below Portal = 1456.5

Levels from End Conduit to Weir at Ditch End.

+	H.I.	−	Elev.	
B.M.-Spk. in Hub 20' Lt, 544+90				
			Elev. 1463.83	B.M.
6.97	1470.80			
		0.63	1470.17	T.P.
6.89	1477.06			
		0.63	1476.43	T.P.
6.84	1483.27			
		0.60	1482.67	T.P.
6.53	1489.20			
		0.60	1488.60	T.P.
6.71	1495.31			
		2.20	1493.11	T.P.
7.01	1500.12			
		0.91	1499.21	T.P.
4.28	1503.49			
		6.30	1497.19	T.P.
1.39	1498.58			
		6.84	1491.74	T.P.
0.80	1492.54			
		6.86	1485.68	T.P.
0.67	1486.35			
		6.32	1480.03	T.P.
1.63	1481.66			
		5.07	1476.59	B.M.

B.M.-Spk. in Hub 30' Lt. & 250' Below Outlet of Tunnel "6.

+	H.I.	−	Elev.	
			1476.59	B.M.
0.64	1477.23			
		6.96	1470.27	T.P.
1.28	1471.55			
		6.79	1464.76	T.P.
2.04	1466.80			
		6.94	1459.86	T.P.
1.68	1461.54			
		5.78	1455.76	T.P.
1.68	1457.44			
		5.27	1452.17	B.M.

B.M.-Nail in Oak Tree - 20' Lt of Weir 14' South of Gauge House.

Dulzura Conduit

Traverse within Secs 11, 14 T18S R2E

Superceding notes of location given in Application for Easement thru Cleveland Forest 3-1-08 to Nov 1909. FB 38, Pg. 1

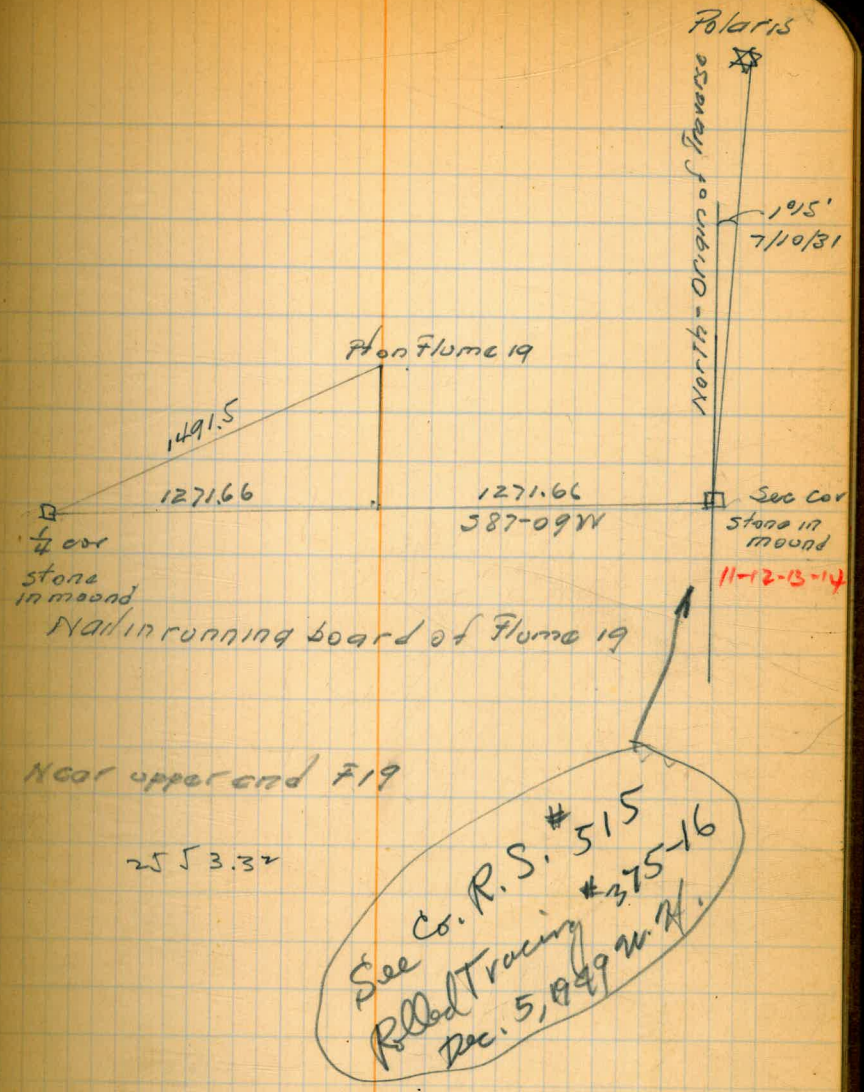
7/3/31
R6. Wuesto
Harold Soper
Joe Salgado

(Points scratched in concrete Conduit floor)

Sta	Dist	Lt	Rt	CalCo	MagCo	
	49.77	27-05		N24-07W		Ncor upper end F18
	56.90		35-45	N2-58E	N1-45E	
	55.36	52-43		N32-47W		
	61.65		30-23	N19-56E		
	26.37		24-43	N10-27W	N11-45W	
	50.40		35-08	N35-10W		
	75.28		4-40	N70-18W	N71-55W	
	92.55		0-58	N74-58W		
	106.29		11-28	N75-56W		Nail in roof Tunnel 5½
	622		92.36	N87-24W		
Sec Cor	668			South	S1-25E	11, 12, 13, 14 T18S R2E Stone 66⅝ N of Conduit and East of road across Tunnel 5½

Sta	Dist	Lt	Rt	CalCo	MagCo
	67.93		48-47	N1-21W	N2-40W
	93.90	12-21		N50-08W	
	76.20		30-34	N37-47W	
	41.61		33-20	N68-21W	
	67.00	24-04		S78-19W	
	118.61		22-10	N77-37W	N78-40W
	32.02		55-52	S80-13W	
	125.51		3-59	S24-21W	S23-15W
	108.92	24-16		S20-22W	
	84.42	22-35		S44-38W	S43-40W
	42.37	36-57		S67-13W	
	61.10	51-43		N75-50W	

Sta	Dist	Lt	Rt	Cal Co	Mag Co
To ¼ cor	1491.5	54-03		S58-46W	S38 W
	224.27	34.23		N67-11W	N68-35W
	~~339.50~~	~~34.23~~		~~N67-11W~~	~~N68-35W~~
	150.36	97-09		N32-48W	N34-00W
	44.05		23-20	N64-21E	
	52.43		36-27	N41-01E	
	65.27		15-52	N4-34E	
	57.97		31-47	N11-18W	
	60.90	41-44		N43-05W	



Stake T.P. on Upper Trail.

		0.73	1559.81 T.P.
13.00	1560.54		
			1547.54 TP

		0.69	1547.54 TP
12.99	1548.23		
		0.65	1535.24 TP
12.86	1535.89		
		0.70	1523.03 TP
12.26	1523.73		

B.M. - Point on Rock - Jct. of Upper & Lower Trails.

		1.98	1511.47 B.M.
12.46	1513.45		
		0.57	1500.99 TP.
12.77	1501.56		
		0.68	1488.79 TP.
13.00	1489.47		
		11.13	1476.47 TP.
5.72	1487.60		

B.M. - Spike in Hub - 7' Lt. Sta. 303+40

		5.05	1481.88 BM.
5.02	1486.93		

B.M. - Spike in Hub - Left concrete Cap - Sta. 310+75

		5.70	1481.91 B.M.
5.62	1487.61		
		4.08	1481.99 TP.
4.87	1486.07		
		4.67	1481.20 TP
7.65	1485.87		
			1478.22 BM.

Bench Levels

B.M. - Spike in Hub. - 10' Lt. Sta. 320+30

	7.21 1478.22 B.M.
4.73 1485.43	
	4.64 1480.70 TP
4.86 1485.34	
	4.54 1480.48 TP
4.80 1485.02	

B.M. - Spike in Hub - 6' Lt - Sta. 330+00

	4.57 1480.22 B.M.
4.76 1484.79	
	4.38 1480.03 TP
5.03 1484.41	
	4.72 1479.38 T.P.
4.64 1484.10	

B.M. - Iron Rod 8' Lt. 342+30 - Foot of big boulder at N.W. Cor. of old Blacksmith Shop.

	4.38 1479.46 B.M.
4.68 1483.84	
	4.37 1479.16 TP
4.93 1483.53	

BM - Spk. in Hub 12' Lt. 350+20

	4.57 1478.60 B.M.
4.72 1483.17	
	5.21 1478.45 TP
5.22 1483.66	
	1478.44 B.M.

Bench Levels.

B.M. - Spk. in Hub 12' Lt. 359+70

	7.91 1478.44 B.M.
8.85 1486.35	
	6.63 1477.50 TP.
6.33 1484.13	

B.M. - Spk. in Hub 12' Lt. 367+75

	3.75 1477.80 B.M.
4.71 1481.55	
	4.96 1477.14 TP
2.60 1482.10	

B.M. on Boulder 8' Lt. 373+50

	1.29 1479.50 B.M.
4.50 1480.79	
	2.58 1476.29 TP
7.63 1478.87	
	4.85 1471.24 TP
4.67 1476.09	

B.M. - On Top of Ledge 12' Lt. 382+00 W. End Flume #15

	8.87 1471.42 B.M.
4.71 1480.29	
	4.54 1475.58 TP
4.47 1480.12	

B.M. - Spk. in Hub 12' Lt 390+00

	3.94 1475.65 B.M.
4.70 1479.59	
	4.50 1474.89 TP
4.50 1479.39	
	1474.89 TP

Bench Levels

	4.60	1474.89 TP
5.80	1479.49	
B.M. – Spk. in Hub 15' Lt 400+00		
	5.18	1473.69 B.M.
4.94	1478.87	
	4.22	1473.93 TP
3.46	1478.15	
B.M. – On Concrete at S.W. Cor. of W. end of Conduit Top Slab at County Road Crossing.		
	4.19	1474.69 B.M.
4.55	1478.88	
B.M. – Spk. in Hub 20' Lt. 410+00		
	3.55	1474.33 B.M.
4.80	1477.88	
	5.88	1473.08 TP
5.49	1478.96	
	4.10	1473.47 T.P.
4.74	1477.57	
	4.31	1472.83 TP
4.72	1477.14	
B.M. – Spk. in Hub 12' Lt 420+00		
	10.23	1472.42 B.M.
1.53	1482.65	
	12.71	1481.12 TP
5.64	1493.83	
	12.83	1488.19 T.P.
7.83	1501.02	
		1493.19 T.P.

Bench Levels

Top Tunnel.

	0.59	1493.19 T.P.
11.20	1493.78	
	0.69	1482.58 TP
12.60	1483.27	
B.M. – Spk. in Hub 15' Lt. 430+75		
	7.16	1470.67 B.M.
6.16	1477.83	
B.M. – Spk. in Hub 15' Lt 440+00		
	3.12	1471.67 B.M.
4.29	1474.79	
	4.28	1470.50 TP
9.08	1474.78	
B.M. – Spk. in Hub 25' Lt. 450+00		
	9.50	1465.70 B.M.
5.38	1475.20	
	4.19	1469.82 TP
3.67	1474.01	
	4.76	1470.34 TP
5.95	1475.10	
B.M. – Spk. in Hub 16' Lt. 460+50		
	6.91	1469.15 B.M.
6.57	1476.06	
	3.88	1469.49 T.P.
4.42	1473.37	
B.M. – Spk. in Hub 15' Lt. 469+85		
	4.75	1468.95 B.M.
5.12	1473.70	
		1468.58 T.P.

Bench Levels

4.48 1468.58 T.P.

4.76 1473.06

B.M. – Spk. in Hub 18' Lt. 479+65

5.12 1468.30 B.M.

5.52 1473.42

5.33 1467.90 T.P.

B.M. – Spk. in Hub – 12' Lt. 488+00

4.52 1468.71 B.M.

5.78 1473.23

3.93 1467.45 T.P.

4.87 1471.38

4.34 1466.51 T.P.

3.93 1470.85

B.M. – Spk. in Hub 15' Lt. 499+35

4.43 1466.92 B.M.

5.57 1471.35

4.64 1465.78 T.P.

5.03 1470.42

B.M. – Spk. in Hub 15' Lt 509+50

4.50 1465.39 B.M.

6.19 1469.89

5.65 1463.70 T.P.

4.69 1469.35

4.39 1464.66 T.P.

4.93 1469.05

1464.12 B.M.

Bench Levels

B.M. – Spk. in Hub 17' Lt 520+00

5.20 1464.12 B.M.

4.88 1469.32

5.39 1464.44 TP

5.45 1469.83

B.M. – Spk. in Hub – 15' Lt. 530+00

3.89 1464.38 B.M.

4.18 1468.27

5.51 1464.09 TP

6.61 1469.60

4.74 1462.99 TP

4.85 1467.73

(End of Conduit Approx. 548 Entrance of Tunnel)

B.M. – Spk. in Hub 15' Lt 540+35

4.59 1462.88 B.M.

1.68 1467.47

12.85 1465.79 TP.

0.84 1478.64

12.19 1477.80 TP.

1.51 1489.99

12.64 1488.48 TP

0.71 1501.12

12.82 1500.41 TP

6.63 1513.23

6.71 1506.60 TP

12.67 1513.31

1500.64 TP

Bench Levels

	0.65 1500.64 TP.
11.26	1501.29
	0.84 1490.03 TP
7.31	1490.87
	1.55 1483.56 TP.
8.64	1485.11
	7.19 1476.47 TP
9.65	1483.66
	0.72 1474.01 TP
12.90	1474.73
	1.66 1461.83 TP
9.96	1463.49
	0.65 1453.53 TP
12.06	1454.18
	0.90 1442.12 TP
10.69	1443.02
	0.60 1432.33 TP.
12.90	1432.93
	0.72 1420.03 TP
12.79	1420.75
	0.60 1407.96 TP.
12.90	1408.56
	0.59 1395.66 TP
11.75	1396.25
	0.76 1384.50 TP
12.01	1385.26
	1373.25 TP.

Dec.-22-'27
Ward - Notes
Duermit - Lev.
McBain - Rod

Bench Levels

	0.65 1373.25 TP
12.65	1373.90
	0.68 1361.25 TP
12.83	1361.93
	0.65 1349.10 TP
12.82	1349.75
	0.60 1336.93 T.P.
12.11	1337.53
	0.60 1325.42 TP.
12.00	1326.02
	0.66 1314.02 TP
12.90	1314.68
	0.62 1301.78 TP
12.43	1302.40
	0.63 1289.97 TP.
13.01	1290.60
	0.86 1277.59 TP.
12.64	1278.45
	0.79 1265.81 T.P.
11.95	1266.60
	0.77 1254.65 T.P.
11.74	1255.42

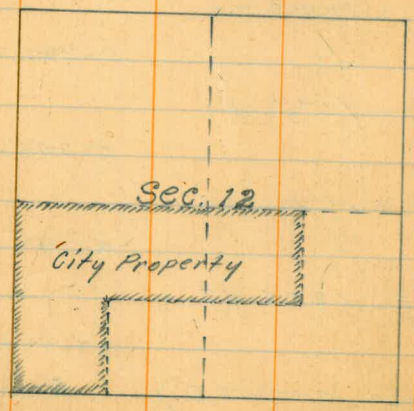
(Stamped 1243 - S.D.) Elev. = 1243.68 B.M.
U.S.G.S. B.M. - Bronze Tablet on Boulder
120' S. Dulzura School House 6' N Creek on
West side of old Road Bridge approach.

780 U.S.G.S. B.M's.

Dulzura School House.
Bronze Tablet on Granite Boulder
120' S of School – 6' N of creek
ford – 6' N of road.
Stamped "1243 S.D". Elev. = 1243.68

Eisenecke; Sec. 8 – Twp. 18S – R 3 E.
Bronze Tablet on Boulder.
81' W of house – 36' N of barn
27' N of road.
Stamped "875 S.D" Elev. = 875.54
(Cottonwood)

548± End Conduit – Portal Tunnel (Last)



NW¼ of the SE¼ and N½ of the SW¼
and SW¼ of the SW¼ – Sec. 12 – Twp. 18S – R 2 E

IMPROVED TABLES
AND
INFORMATION