PLAN SURVEY

FOR

SHOULDERS

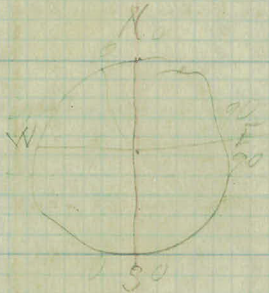
S.T.H. 3

From Burns Ave. To Battle Creek

PROJ. 29-S.T.H.3

PROJ. 29 - S.T.H. 3.

ART. TOPOG FROM BURNS AVE TO BATTLE CREEK.



5

4

3

2

1

0700

12-12-28

+65 MANHOLE 1

+62 P.P 5

+23 P.P 6

+14.5 BEG CURB
+18 CATCH BASIN 5
3.5 X 3.5
+28.5 END OF CURB

+12 CATCH BASIN 24

+42 P.P 5

SCATTERED TREES

+97-6"-T-10

+54 END OF F.22

+39 T.P 8

0+00 BEG CURB

-04 F.CUR 24

-07 SIGN P.17

11

10

9

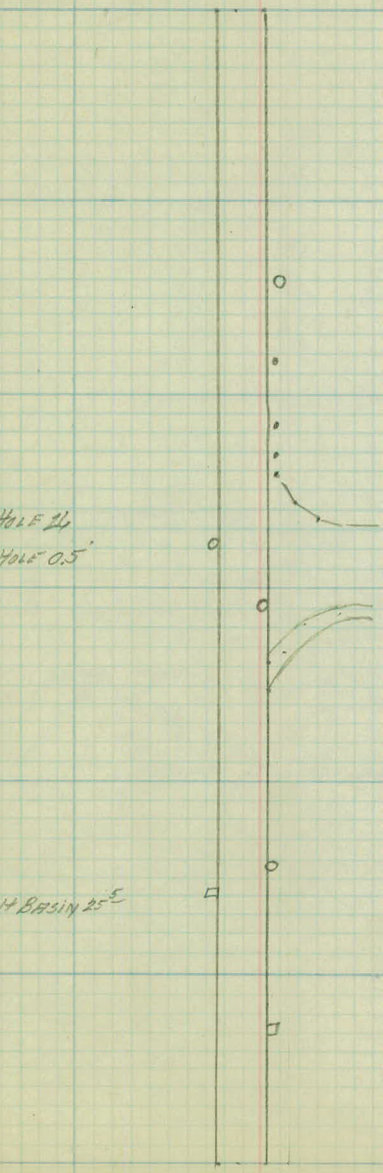
8

7

6

5

12-12-28.



7+77 TREE 5'

7+67 P.P. 6'

9+67-6"-T-15'
9+60 MAN HOLE 10'
9+56 GUY POLE 13
9+18 C.C. RAIL POST 6

9+14 P.P. 14'

8+85 C.C. RAIL P.5
8+67 CONC. C.R. RAIL POST. 5
8+59 CONC. C. RAIL P.5
8+51 END C. RAIL 11
8+42 C. RAIL 18
8+37 CURVD RAIL 27

8+23 MAN HOLE 24

8+15 SIDE ROAD.

7+92 MAN HOLE 0.5'

7+87 ℄ GUTTER 41
7+81 ℄ GUTTER 32
7+68 ℄ GUTTER 11
7+52 BEG CONC. GUTTER 4' WIDE
7+48 END OF CURB

7+35 P.P. 6
7+16 G. POLE 4

7+59 MAN HOLE 3'2

7+42 CATCH BASIN 25^{5} 3'2x3'2

7+92 P.P. 6

7+76 GUY POLE 15

7+74 BEG CURB
7+72 CATCH BASING 3'2x3'2
7+65 END OF CURB

17

16

15

14

13

12

11

12-12-28

LIGHT POLE
+73 P.P. 14
+68 C. POLE 15

+56 5 X DRAIN 4' & 23
24" X 19 C.M.
+56 5 BEG. OF CURB
+55 C.B. 5'
3½ X 3½
+43 END OF CURB

+39 X DRAIN 31
24" X 36 C.M.
WITH WING WALLS

+38 P.P. 3

TREES & BRUSH

+73 DRIVE WAY

+00 P.P. 16

+78 P.P. 11

+51 MAN HOLE 11'
+37 C.B. 27
3½ X 3½

+41 P.P. 6
+35 BEG. CURB

INLET N.G.
+10 C.B. 6
3½ X 3½
+14 END OF CURB

23

22

21

20

19

18

17

12-12-26

+95 P.P. 8

+97 P.P. 10
LIGHT POLE

+97 A. POLE 10

BRUSH & TREES

+68 P.P. E

+71 X. 10 RAIN
24" V.I.T.L. & 24" C.M.R.
EXTENDS 27 L & 35 R.
WITH WING WALLS

+71 MAN HOLE 18"

+29 P.P. 4

+17 P.P. 6

29

28

27

26

25

24

23

12-12-28

+36 C.B. 30
No Inlet

+61 P.P. 8
Light Pole.

+100 End of Curb.

+40 C.B. 25
3½ x 3½

+33 P.P. 9

+125 B.C. of Curb
+106 Drive Way
+96 Apple T. 17

+100 End of Curb.
+71 P.P. 5
+72 Plum T. 16
+99 Apple T. 18
+133 Drive Way
+125 End Curb.

+27 C.B. 29

+26 X D. R. 18 in.
15" C.M.
Extends 12 F.
Wing Walls.

+21 Spillway
+17 End Curb

+74 P.P. 5

+54 P.P. 6

35

34

33

32

31

30

29

12-12-28

+30 P.P 5

+62 X DRAIN
18" V.I.T.
EXTENDS 27' L. & 11' R.
WITH WING WALLS

+16 C.B. 29
3½ X 3½

+16 X DRAIN
24" C.M.
EXTENDS 19' R.
WITH WING WALLS

+89 P.P 6

+98 C.B. 26
3½ X 3½

+25 P.P. 9

+20 PRI. ENT

+74 C.B. 30
3½ X 3½

+96 P.P. 13

+78 X DRAIN
30" C.M.
EXTENDS 28' R.
WITH WING WALLS

41

40

39

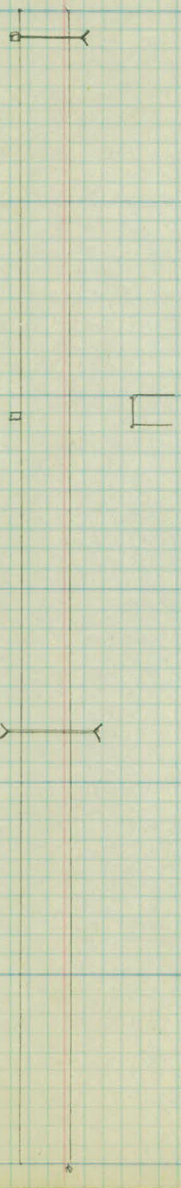
38

37

36

35

12-12-28



+85 C.B. 28
3½ X 3½

+85 X DRAIN
EXTENDS 10 R.
15" C.M.

+38 P.P.5

+72 PRI. ENT.

+57 G. POLE 4

+89 HOUSE 34

+83 P.P.4

+82 HOUSE 34

+87 C.B. 26
3½ X 3½

+29X DRAIN
30" C.M.

EXTENDS 37 LR/18R
WITH WING WALLS

+31 P.P. 8

+75 P.P.C.
LIGHT POLE

+17 G. POLE 7

47

46

45

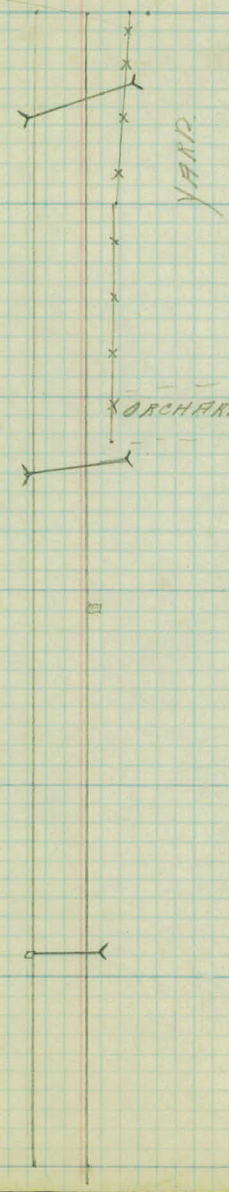
44

43

42

41

12-12-48


F.25 END F.
+62 X DRAIN 18" C.M.P. EXTENDS 27' R. WITH WING WALLS
+42 X DRAIN 27
+03 P.P.4
F.17
+87 & PRI ENT. 17 X 10 X 10 CONC.
+45 & 4' STEPS
YARD
ORCHARD
+75 BEG OF F.C.
+66 X DRAIN 30" C.M.P. EXTENDS 32' R. WITH WING WALLS
+59 X DRAIN 30
+57 P.P.3
+91 SPILLWAY
+21 P.P.3 LIGHT POLE E
+13 SPILLWAY
+13 X DRAIN 18" C.M.P. EXTENDS 11' R. WITH WING WALLS
+12 C.B. 3
+85 P.P.5

53

52

51

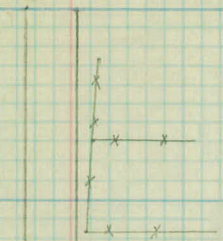
50

49

48

47

12-12-28



+82 PAI. ENT.
+73 END F.B
+49 WOODEN STEPS

+30 X F.11

+82 F. COR.8

+71 P.P 2

CULTIVATED

81 CONC. SPILLWAY
+64 X DRAIN
18" C.M.
EXTENDS 12' R.
WITH WING WALLS
+33 P.P 3

+46 X DRAINS1

WEEDS

+91 P.P 6

+32 G. POLE 10

+47 P.P 5
LIGHT POLE

59

58

57

56

55

54

53

12-12-28

+79 P.P.4

+36 P.P.4

+44 X DRAIN 24" C.M.
EXTENDS 29 R.
WITH WING WALLS

+89 P.P.4

+51 P.P.3.

+87 X DRAIN
24" C.M.
EXTENDS 24' R.
WITH WING WALLS
+16 P.P.4

+44 X DRAIN 24" C.M.

+49 X. DRAIN 27

65

64

63

62

61

60

59

12-12-28

+16 P.P 7
L.H.47 POLE

+79 P.P 7
+42 WOODEN
STEPS 5' WIDE

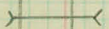
+26 PRI. ENT.

+48 END C. RAIL
POSTS 4
+46 P.P. 5

+77 C. POLES

+47 BEG. C. RAIL
POSTS 4
+14 P.P 5
+33 ~~+47~~ BEG. C. RAIL
POSTS

+50 X. DRAIN 24



+51 X DRAIN
18" VIT
EXTENDS 16 R
WITH WING WALLS

71

70

69

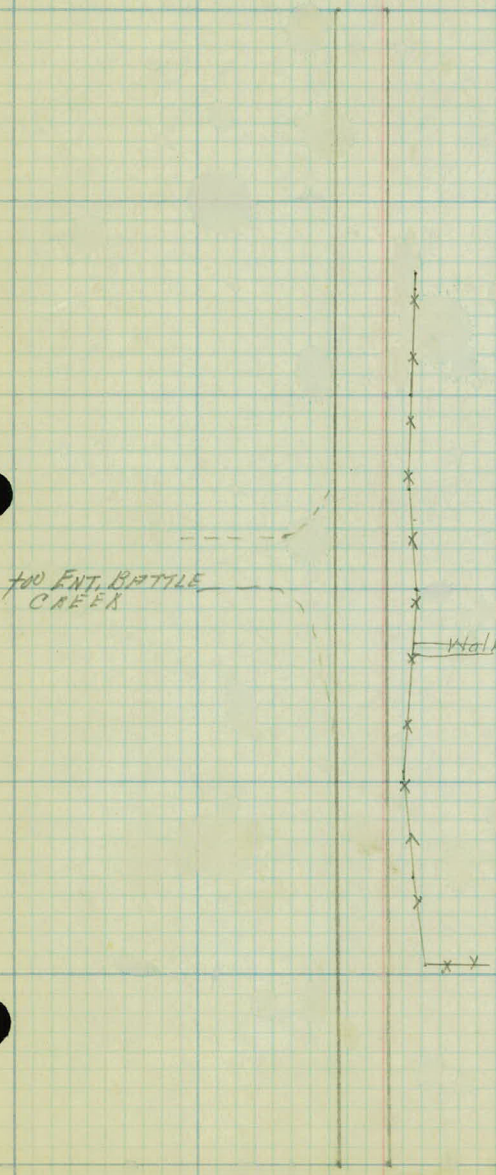
68

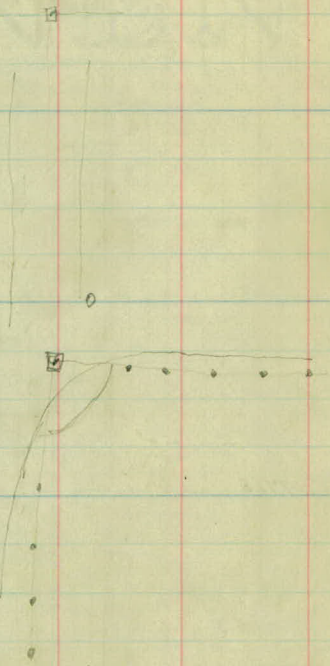
67

66

65

12-12-38


+64 END F. 18
~~F. 16~~ F. 13
+52 C. POLE C
+50 F. 18
+44 P.P. 3
+35 P.S. L ENT
F. 18
+97-6"-T-8
+80-4"-T-6
+69 S. WALK
+62-6"-T-5
+46-6"-T-3
+30-6"-T-3
+21 P.R. ENT
+15-6"-T-3
+01 P.P. 2
F. 9
+70-6"-T-6
+50 F. 10
+41-6"-T-8
+04 F. COR 21
+53 P.P. 1
+34 C. POLE 10
+00 ENT. BATTLE CREEK
Walk



29 - S.T.H. 3.

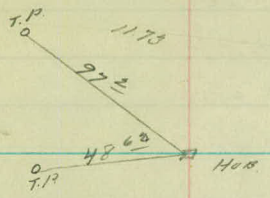
ALIGNMENT FROM BURNS AVE TO BATTLE CREEK.

STA	POINT	Δ LT.	Δ RT.
10+63 37	P.T.	13°-30'	
+50		12°-35-8	
10		9°-13-3	
9+65 5	P.I.		Δ-27°00'
+50		5°-50-8 .083	D-13°-30' L.
9		2°-28 3	T-102 13
8+63 37	P.C.	0°-00	56.7 L-200 00
			R-435 40
7+21 2	P.T.	7°-00 5	
7		5°-5-0 6	
6+57 20	P.I.		Δ-14°-01
+50		3°-05-6	D-11° L.
6		0°-20 6	T-64 13
5+93 77	P.C.	0°-00	L-127 43
			R-521 67
0+00			

12-7-28

180
153
27

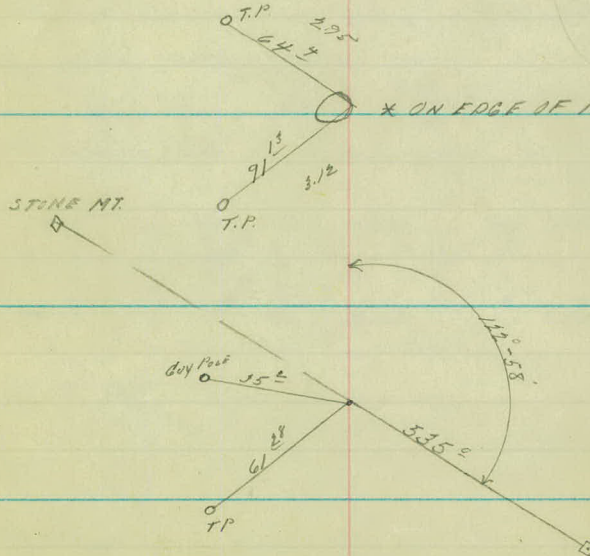
11.75 EST



12.47

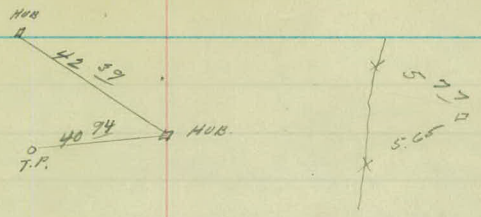
14 - 01 L.

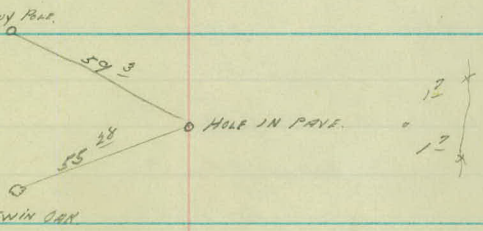
6457.90

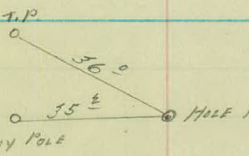


STA.	POINT	Δ LT.	Δ RT.	
17+35 67	P.T.	10°-38 5		
17		7°-42		
16+72 15	P.I.		0.12	Δ-21°-17'
+50		3°-34 4	43.42	D-16°-30' L.
16+06 68	P.C.	0°-00'		T-65 47
				L-128 99
				R-348 45
15+28 24	P.T.		1°-37 5	
15			0°-52 4	
14+95 U	P.I.	37.60		Δ-3°-19'
14+62 41	P.C.		0°-00	D-5° R.
				T-33 19
				L-66 33
				R-1146 28
11+73 10	P.T.	0.36	7°-54	
+50		0.43	5°-56	
11+42 4	P.I.	39.96		Δ-18°-48
11+10 43	P.C.		0°-00'	D-30° R.
				T-31 27
				L-62 67
				R-193 19

12-7-28


HUB
42 39
HUB
40 94
T.P.
5 7 1
5.05

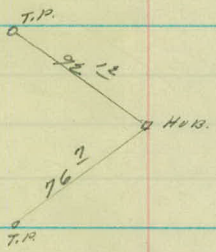

GUY POLE
59 3
HOLE IN PAVE
48
35
TWIN OAK
1 7
1 7


T.P.
36 0
35 4
HOLE IN PAVE
GUY POLE

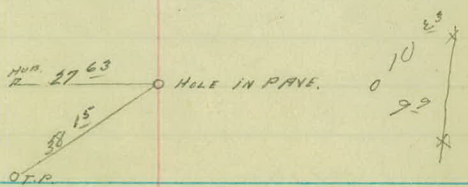
STA	POINT	Δ LT.	Δ RT.	
23+33.69	P.T.	11°-26.5 ✓		
23		7°-58		
+50		7°-34		
22+11.8	P.I.			Δ-22°-53'
22		5°-15.5		D-9°-15' L
+50		2°-57		T-125.50 ✓
21		0°-38		L-247.39 ✓
20+86.30	P.C.	0°-00' ✓		R-620.087 ✓
19+30.99	P.T.	0.05 ✓	10°-31.5	
19			8°-35.3	
+50		0.07	5°-27.8	
18+47.92	P.I.			Δ-21°-03'
18		37.47 ✓	2°-20.3'	D-12°-30 R.
17+62.57	P.C. ✓		0°-00'	T-85.53 ✓
				L-168.40 ✓
				R-459.18 ✓

12-10-28

12.5

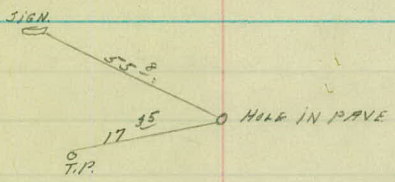


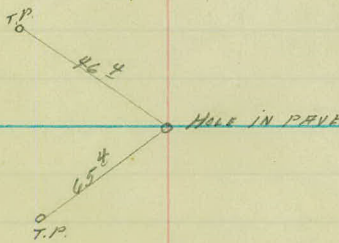
7.3/4



STA	POINT	ALT	ANT.	
29+36 ^{21}	P.T. ✓		20°-46 ^{5}	
29			15°-21	
28+71 ^{0}	P.I.			Δ-41°-33′
+50			7°-51′	D-30° R.
28		0.45	0°-21	T-73 ^{29} ✓
27+97 ^{21}	P.C. ✓		0°-00	L-138 ^{50} ✓
				R-193 ^{17} ✓
25+30 ^{17}	P.T. ✓		1°-25′	
25+01 ^{85}	P.I.			Δ-2°-50′
25			0°-40	D-5° R.
24+73 ^{5}	P.C. ✓		0°-00	T-28 ^{35} ✓
				L-56 ^{67} ✓
				R-1146 ^{28} ✓

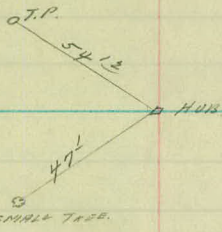
12-10-38

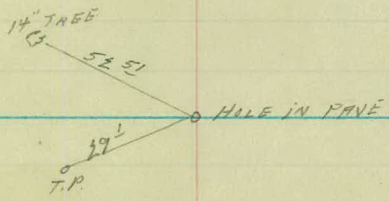




STA	POINT	Δ LT	Δ RT.	
35+89.49	P.T.	7° 19'		
+50		5°-56'		
35		4'-11"		
34+85.6	P.I.			Δ- 14° 38'
+50		2'-26"		D- 7° L. ✓
34		0° 41'	0.03	T.- 105.16 ✓
33+80.44	P.C.	0'-00"		L.- 209.05 ✓
				R- 819.02
31+01.9	P.T. ✓			
30+46.9	P.I. ✓			Δ- 1° 06'
				R- 1° L. ✓
				T.- 55.0 ✓
				L- 110.0 ✓
29+91.9	P.C. ✓			R- 5729.65

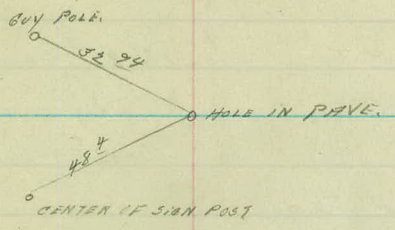
12-10-28

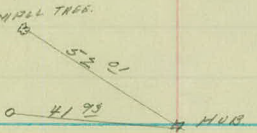




STA.	POINT	ALT	ANT.	
44+19.1	P.T.		15°-46.5	
44			14°-35'	
+50			11°-27.5	
43 45			8°-20'	
42+96	P.I.			Δ-31°-33
+50		1.07	5°-12.5	D-12°-30 R.
42		43.36	2°-05'	T-129.75
41+66.7	P.C.		0°-00	L-252.40
				R-459.28
40+44.06	P.T.		7°-15'	
40			5°-29'	
39+54.0	P.T.			Δ-14°-30
+50			3°-29'	D-8° R. LT.
39			1°-29'	T-91.19
38+62.81	P.C.		0°-00	L-181.25
				R-716.78

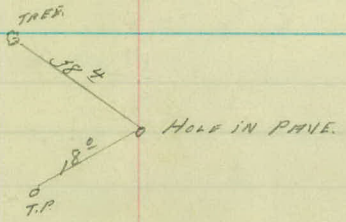
12-10-28


GUY POLE.
32 94
HOLE IN PAVE.
48 4
CENTER OF SIGN POST

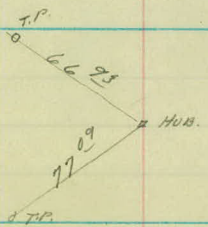

SHRUB TREE.
52 01
41 93
HUB.

STA.	POINT	Δ LT.	Δ RT.	
51+69^{35}	P.T.	✓	22°-25'	
+50			20'-33'	
51			15°-43^{5}	
50+60^{1}	P.I.			Δ-44°-50' ✓
+50			10°-54'	D-19°-18' R. ✓
50		0.18	6°-04^{5}	T-123^{04} ✓
+50			1°-15'	L-232^{29} ✓
49+37^{06}	P.C.	19.0 ✓	0°-00'	R-298^{28} ✓
48+28^{95}	✓P.T.		7°-10^{5}	
48			5°-17^{5}	
47+74^{18}	P.I.		0.08	Δ-14°-21'
+50			2°-02^{5}	D-13° L.
47+18^{57}	✓P.C.		0°-00	31.5 T-55^{61} ✓
				L-110^{38} ✓
				R-441^{68} ✓

12-11-28

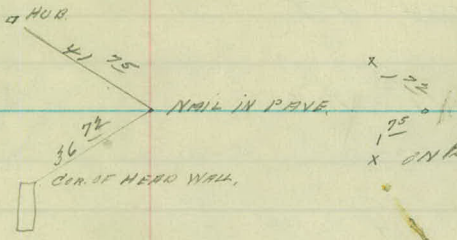


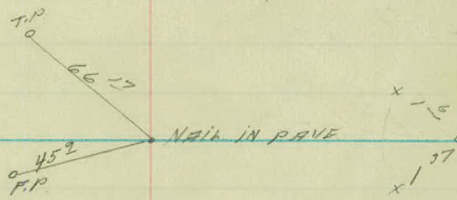
E4.4



STA	POINT	Δ LT.	Δ RT
53+62 69	P.T.		
53+37 95	P.I.	Δ - 3° 28'	
		D - 7° L. ✓	
		T - 24 78 ✓	
		L - 49 52 ✓	
53+13 17	P.C.	R - 819 02 ✓	
52+67 04	P.T. ✓		
52+36 2	P.I.	Δ - 1° - 14' ✓	
		D. - 2° LT. ✓	
		T. - 30 53 ✓	
		L - 61 67 ✓	
52+05 37	P.C. ✓	R - 2864 93	

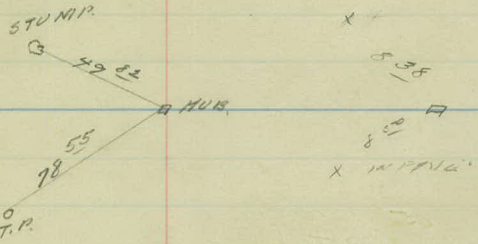
12-11-28

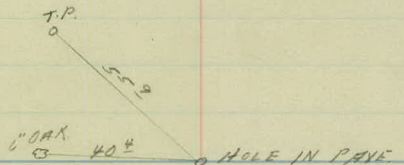

HUB
41 75
NAIL IN PAVE.
72
36
CEN. OF HEAD WALL.
22
75
ON P.I.


T.P.
66 17
NAIL IN PAVE
45 9
F.P.
6
37

STA.	POINT	Δ LT	Δ RT.	
63+74 13	P.T.	10°-21		
+50		8°-39 7		
63+01 2	P.I.			Δ-20°-42'
63		5°-09 3	0.09	D-14° L.
+50		1°-39 7	13.78	T-74 93
62+26 27	P.C.	0°-00		L-147 86
				R-410 58
56+18 50	P.T.		8°-23	
56			7°-11	
55+54 62	P.I.		16°-46	Δ-16°-46
+50		0.08	3°-56	D-13° L. RT.
55		10.79	0°-41	T-65 09
54+89 53	P.C.		0°-00	L-128 97
				R-441 68

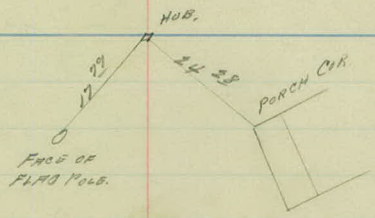
12-11-28


STUMP
42 ft
HUB
55
78
T.P.
X
38
X IN PAVE


T.P.
55 ft
6" OAK
40 ft
HOLE IN PAVE

STA.	POINT	Δ LT.	Δ RT.
70+01 05	P.T.	19°-02' ✓	
70		18°-59'	
+50		16°-38'	
69		14°-17'	
+50		11°-56'	
68+06 6	P.I.	0.04	Δ-38°-04'
68		9°-35'	D.-9°-24' L. ✓
+50		7°-14'	T.-210 51 ✓
67		4°-53'	L.-404 74 ✓
+50		2°-32'	R.-610 21 ✓
66		0°-11'	
65+76 09	P.C.	0°-00' ✓	

12-11-28



12-13-28

29- S.T.H. #3

LEVELS

	B.S	H.I.	F.S.	ELEV.
#1 B.M.	1.22	843.64		842.42
T.P.	0.46	832.28	11.82	831.82
T.P.	0.79	819.94	13.13	819.15
T.P.	0.31	806.83	13.42	806.52
#2 B.M.	0.57	794.12	13.28	793.55
T.P.	0.84	782.03	12.93	781.19
T.P.	0.70	769.38	13.35	768.68
#3 B.M.	7.14	764.05	12.47	756.91
T.P.	13.56	777.04	0.57	763.48
"	8.10	784.50	0.64	776.40
#4 B.M.			2.32	782.18
T.P.	2.61	779.01	8.10	776.40
"	1.56	773.12	7.45	771.56
#5 B.M.	0.77	763.31	10.52	762.60
	3.74	756.81	10.30	753.07

12-13-78

484 / 12

B.M. ON TOP OF HYDRANT AT N.W. COR.
BURNS AVE. AND PT. DOUGLAS RD.
CITY ELEV. = 148.68 - SEA LEVEL ELEV. = 842.42

SPIKE #8 T.P. 30' LT. STA. 11+60

NAIL IN G.P. 33' LT. STA. 19+35

NAIL IN T.P. 30' LT. STA. 28+60

BOLT T.P. 30' LT. OF STA. 43+34

	B.S.	H.I.	F.S.	ELEV.
		756.81		
#6 B.M.	0.14	750.28	6.67	750.14
T.P.	0.93	741.41	9.80	740.48
"	2.30	740.35	3.36	738.05
#7 B.M.			5.46	734.89

12-13-38

NAIL P.P. 35' Lt. STA. 51+70

SPIKE T.P. 40' Lt. STA. 66+80

12-13-28

29- S.T.H. #3
X- SECTIONS

	B.S.	H.I.	F.S.	ELEV.
B.M. #1	8.26	850.68		842.42
0+00				838.95
+10				838.90
+64				838.42
1+00				837.93
1+50				837.25
2+00				836.58
T.P.	5.17	842.09	13.76	836.92
+50				835.43
3+00				833.54
+50				831.44
+88				829.52
4+00				828.96 (828.46)
+08				828.55

12-13-28

(11.7) 11.73 / 1 — (11.9) 11.34 / 1.5 — 11.3 / 16 — 10.6 / 29 — 10.0 / 35 — 39.5

(11.8) 11.78 / T. — (11.4) 11.41 / 1.5 — 11.4 / 9 — 9.9 / 14 — 9.8 / 21 — 8.6 / 29 — 8.4 / 35 — 39.3

(12.3) 12.26 / 1 — (11.9) 11.87 / 1.5 — 12.2 / 4 — 7.6 / 12 — 5.3 / 26 — 4.5 / 35 — 38.4

(12.8) 12.75 / 1 — (12.3) 12.32 / 1.5 — 12.0 / 4 — 0.4 / 20 — + 0.6 / 35 — 38.4

(13.4) 13.48 / 1 — (13.0) 13.04 / 1.5 — 13.0 / 6 — 1.1 / 24 — 0.0 / 35 — 37.7

14.1 / 1 — (13.8) 13.77 / 1.5 — 13.4 / 7 — 7.4 / 16 — 6.1 / 35 — 36.9

(6.7) 6.66 / 1 — (6.3) 6.31 / 1.5 — 5.6 / 7 — 4.9 / 13 — 5.0 / 26 — 5.4 / 35 — 35.8

(8.6) 8.55 / 1 — (8.2) 8.17 / 1.5 — 7.6 / 5 — 8.0 / 8 — 7.9 / 20 — 8.5 / 35 — 33.9

31.8 — (10.7) 10.65 / 1 — (10.3) 10.27 / 1.5 — 9.0 / 7 — 8.8 / 14 — 7.7 / 20

29.9 — (12.6) 12.57 / 1 — 12.10 / 1.5 — 9.2 / 8 — 8.4 / 20

29.3 — (13.1) 13.18 / 1 — (12.8) 12.75 / 1.5 — 12.7 / 4 — 9.9 / 9 — 8.9 / 20

28.5 — (13.5) 13.54 / 1 — 13.6 / 1.5 — 10.0 / 8 — 9.5 / 15 — 8.4 / 20

	B.S.	H.I. 842.09	F.S.	ELEV.	
4+17					828.19
T.P.	0.39	828.82	13.66	828.43	
5+00					824.08
+50					821.51
6+00					819.23
+50					817.15
T.P.	1.65	818.89	11.58	817.24	
7+00					814.43
+50					811.73
+70					810.76
8+00					809.25
+50					806.79
T.P.	1.30	807.85	12.34	806.55	
9+00					804.78
+30					803.08
+50					802.08

12-13-28

28.5 — (3.6) 12.9/1 — (3.6) 13.55/1.5 — 14.0/17 — 11.0/20

24.4 — (4.7) 4.74/1 — (4.4) 4.36/1.5 — 4.4/12 — 8.9/20

21.9 — (7.3) 7.31/1 — (6.9) 6.85/1.5 — 7.1/10 — 6.7/20

19.6 — (9.6) 9.59/1 — (9.2) 9.21/1.5 — 9.4/11 — 9.2/17 — 2.2/25 — 2.2/27

17.5 — (11.7) 11.67/1 — (11.3) 11.25/1.5 — 11.7/9 — 11.2/15 — 8.1/20 — 3.4/25 — +3.0/29

14.9 — (4.5) 4.46/1 — (4.0) 4.04/1.5 — 5.0/11 — 4.7/17 — 0.2/25

12.2 — (7.2) 7.16/1 — (6.6) 6.66/1.5 — 7.5/17 — 7.8/20

GUTTER

10.8 — (8.1) 8.13/1 — 8.7/9 — 9.6/11 — 8.9/14 — 7.6/20

09.3 — (9.6) 9.64/1 — 10.4/20

06.8 — 12.10/1 — 11.9/5 — 10.8/16 — 11.8/18 — 13.1/20

05.2 — (3.1) 3.07/1 — 2.7/1.5 — 2.9/7 — 5.5/12 — 10.3/20 — 13.2/28

03.6 — (4.8) 4.77/1 — (4.3) 4.34/1.5 — 4.1/8 — 4.3/10 — 4.0/12 — 4.2/20 — 6.2/29

02.5 — (5.8) 5.77/1 — (5.4) 5.38/1.5 — 5.3/6 — 5.7/9 — 5.4/13 — 3.6/16 — 2.2/20 — 3.7/24

	B.S.	H.I.	F.S.	ELEV	
		807.85			
10+00					799.81.
+50					796.87.
T.P.	4.52	798.68	13.69	794.16	
11+00					793.64.
+50					790.88.
B.M. #2			5.10	793.58	(793.55)
12+00					788.66.
T.P.	0.52	789.59	9.61	789.07	
+50					786.51.
13+00					784.04.
+50					781.57.
14+00					779.24.
T.P.	0.58	780.27	9.90	779.69	
+50				776.87.	
15+00				774.21.	
+50				771.22.	

12-13-28

00.3 — (8.0) 8.04/1 — (7.6) 7.62/1.5 — 7.3/5 — 8.3/8 — 5.6/12 — 4.6/20 — 5.5/24

97.3 — (11.0) 10.98/1 — (10.6) 10.57/1.5 — 7.8/6 — 7.3/12 — 6.8/20 — 7.2/25

94.0 — (5.0) 5.04/1 — (4.7) 4.69/1.5 — 1.7/B — 2.2/7 — 13.4/25 — 18.5/31 — 24.5/50

91.3 — 7.8/1 — 7.40/1.5 — 7.8/6 — 13.4/14 — 36.0/28 — 36.0/50

89.1 — (10.0) 10.02/1 — (9.6) 9.61/1.5 — 9.6/8 — 13.3/14 — 20.0/25 — 34.5/36 — 33.5/50

87.0 — (2.7) 2.68/1 — (2.6) 2.62/1.5 — 2.3/10 — 2.9/25 — 7.2/45 — 13.0/50

84.5 — (5.6) 5.55/1 — 5.19/1.5 — 5.5/10 — 5.3/14 — 7.1/38 — 8.7/50

82.0 — (8.0) 8.02/1 — (7.6) 7.61/1.5 — 7.6/5 — 8.3/12 — 8.9/21

79.7 — (10.7) 10.35/1 — (9.9) 9.91/1.5 — 10.2/6 — 10.6/9 — 10.7/14 — 13.5/30

77.3 — 3.40/1 — (3.0) 2.98/1.5 — 3.6/12 — 10.7/34

74.6 — (6.1) 6.06/1 — (5.7) 5.65/1.5 — 6.2/7 — 13.8/20 — 17.2/37 — 21.1/45

71.8 — (9.1) 9.05/1 — 9.5/3 — Cuff 8.5/3 — 9.2/8 — 19.8/16 — 26.1/32 — 29.8/45

	B.S.	H.I.	F.S.	ELEV.	Elev
		780.27			
16+00				770.20	
T.P.	0.43	774.19 ✓	6.51	773.76 ✓	
+07				768.86	
+50				766.67	
17+00				764.39	
+50				761.96	
	0.97	763.47 ✓	11.69	762.50 ✓	
18+00				759.51	
B.M.#3			6.53	756.94 ✓	(756.91)
+50				757.73	
19+00				756.93	
+50				752.83	
T.P. B.M.#3	4.80	761.71 ✓		756.91	
20+00				756.01	
+50				755.92	
21+00				756.22	

12-14-28

(10.1) (10.6)
10.07 10.63 9.8 13.8 29.0
1 1.5 12 18 45

69.7

SPIKE IN P.P.

(12-13-28)

(5.3) (4.9)
69.3 5.33 4.86 4.5 9.4 11.5 13.9
1 1.5 8 11 24 37

(7.5) (7.1)
67.1 7.54 7.05 7.4 6.9 5.4 6.8 14.0
1 1.5 7 10 13 18 28
10.1 14.7
39 50

(9.80) (9.30) 9.6 7.9 13.7 20.7 26.3
64.9 1 1.5 11 14 35 36 50

(12.2) (11.6)
62.6 12.23 11.59 11.8 34.8 33.1 37.5
1 1.5 5 30 33 44
44
60

(4.0) (3.4)
60.2 3.96 3.30 3.3 13.8 37.3
1 1.5 6 19 35
37.7 39.5
48 60

(5.7) (5.1)
58.4 5.74 5.02 5.1 13.2 29.8
1 1.5 6 12 34
32.0 39.5
50 60

(6.5)
57.6 6.54 5.90 6.7 13.5 19.8 25.0
1 1.5 4 15 27 38

7.1 (6.5)
57.0 7.14 6.51 6.5 13.4 22.6 34.6
1 1.5 4 14 26 34
47.4
50

(5.7)
56.5 5.70 5.16 5.2 13.4 21.0 25.2
1 1.5 4 17 29 50

(5.8) (5.6)
56.1 5.79 5.58 5.6 13.3 17.8 19.7
1 1.5 4 11 25 40

(5.5) (5.1)
56.6 5.49 5.07 5.4 13.7 17.6 21.5
1 1.5 4 19 34 45

	B.S.	H.I.	F.S.	ELEV.
		761.71		
21+50				757.15
22+00				758.34
+50				759.83
T.P.	9.42	770.47 ✓	0.66	761.05 ✓
23+00				761.46
+50				762.15
24+00				764.99
+50				766.91
25+00				768.98
T.P.	10.85	780.86 ✓	0.46	770.01 ✓
+50				771.03
26+00				773.02
+50				775.05
27+00				777.28

13-14-28

57.5

(4.6)	(4.2)				
4.56 / 1	4.14 / 1.5	4.1 / 6	9.1 / 16	13.7 / 26	15.7 / 33
			21.0 / 45	23.0 / 50	

58.8

(3.4)	(2.9)				
3.37 / 1	3.84 / 1.5	3.1 / 5	4.8 / 12	8.4 / 20	11.5 / 35
			13.7 / 34	16.6 / 41	19.0 / 50

60.2

(1.9)	(1.5)				
1.88 / 1	1.46 / 1.5	2.0 / 7	6.8 / 16	10.9 / 28	12.5 / 40
			14.0 / 50		

61.9 ✓

(9.0)	(8.6)				
9.01 / 1	8.61 / 1.5	8.0 / 4	11.5 / 8	14.0 / 17	14.8 / 18
			16.6 / 34	20.5 / 50	

63.6

(7.3)	(6.9)			
7.32 / 1	6.89 / 1.5	7.1 / 4	13.1 / 18	17.5 / 43

65.4

(5.5)	(5.1)			
5.48 / 1	5.09 / 1.5	5.8 / 4	12.4 / 19	17.0 / 35

67.4

(3.6)	(3.1)				
3.56 / 1	3.14 / 1.5	3.0 / 2	10.7 / 19	13.0 / 33	15.7 / 50

69.4

(1.5)	(1.1)				
1.49 / 1	1.07 / 1.5	1.6 / 4	8.7 / 22	12. / 38	13.1 / 50

71.4 ✓

(9.8)	(2.8)			
9.83 / 1	3.46 / 1.5	9.7 / 4	15.8 / 12	17.0 / 42

73.4

(7.8)	(7.5)				
7.84 / 1	7.46 / 1.5	8.1 / 8	12.4 / 15	15.7 / 38	

75.5

(5.8)	(5.4)				
5.81 / 1	5.39 / 1.5	5.7 / 6	11.3 / 15	12.9 / 25	14.0 / 41

77.7

(3.6)	(3.2)			
3.58 / 1	3.22 / 1.5	3.8 / 2	6.8 / 6	11.6 / 42

	B.S.	H.I.	F.S.	ELEV.
		780.86		
27+50				779.60
28+00				779.83
T.P.	3.40	783.63	0.63	780.23
" +50				779.38
B.M.#4			1.45	782.18
29+00				778.27
+50				777.89
30+00				778.02
+50				777.54
31+00				777.26
+50				777.01
32+00				776.38
+50				775.57
T.P.	3.24	778.77	8.10	775.53
33+00				774.87

12-14-28

79.6

(1.7) (1.3)
1.66 1.75 1.8 5.9 8.0 8.0
1 1.5 6 17 38 50

(1.0) (0.6)
803 ✓ 1.03 0.62 0.9 1.9 1.4 5.1
1 1.5 4 8 10 29
8.2
38
(4.3)
✓ 4.35 4.3 13.2 13.2
1 3 20 50

(5.4)
✓ 5.36 5.5 11.4 12.7 12.7
1 5 16 25 50

(5.7)
✓ 5.74 6.1 8.8 10.6 13.0 13.0
1 5 14 27 33 50

(5.6)
✓ 5.61 5.8 6.6 7.3 8.8 11.1
1 5 7 14 19 27
12.6
40
(6.1)
✓ 6.09 6.3 7.2 8.7 9.9 11.9
1 5 8 17 31 40

(6.4)
✓ 6.37 6.5 7.1 8.3 11.5 13.0
1 4 6 15 25 35

(6.6)
✓ 6.62 6.8 9.4 11.5 14.0
1 5 17 25 35

(7.3)
✓ 7.35 8.0 8.6 10.2 10.5 12.3
1 8 12 17 25 33

(8.1)
8.06 8.5 10.8 13.9 14.5
1 5 12 24 35

✓ 3.90 4.1 7.7 13.2 14.5
1 3 10 20 30

	B.S.	H.I.	F.S.	ELEV.
		778.77 ✓		
33+50				774.66
34+00				774.82
+50				774.66
35+00				774.22
+50				773.90
36+00				773.49
+50				773.02
37+00				772.74
+50				772.29
T.P.	3.14	775.33 ✓	6.58	772.19 ✓
38+00				771.78
+50				771.53
39+00				771.54

12-14-28

(4.1)

4.11/1 4.3/4 15.0/26 16.5/35

(4.0)

3.95/1 4.8/7 9.6/13 13.9/21 15.3/27 17.8/31

(4.1)

4.11/1 4.9/6 9.7/13 16.5/21 17.0/25 17.7/30

(4.6)

4.65/1 4.7/3 8.6/10 9.8/16 15.0/24 15.8/30

(4.9)

4.87/1 5.1/3 8.6/11 9.7/17 14.4/28 14.4/30

(5.3)

5.28/1 5.6/4 9.6/11 12.1/24 14.2/31

(5.8)

5.75/1 5.9/3 9.2/12 12.3/32

(6.0)

6.03/1 5.9/5 9.3/12 9.7/22 11.3/30

(6.5)

6.48/1 6.2/6 8.7/14 10.5/18 15.8/30

(3.6)

3.55/1 3.9/4 6.4/9 10.0/25 10.8/30

3.80/1 3.8/2 7.8/12 10.4/22 11.9/30

(3.8)

3.79/1 6.2/9 7.8/16 10.9/22 11.8/32

	B.S.	H.I.	F.S.	ELEV.
		775.33		
39+50				771.18
40+00				770.43
+50				769.35
41+00				767.95
+50				766.75
T.P.	2.74	768.05	10.02	765.31
42+00				765.23
+50				763.83
43+00				762.53
+50				761.22
44+00				760.08
#5 B.M.			5.45	762.60
T.P.	0.74	760.45	8.34	759.71
+50				758.97
45+00				757.64

12-14-18

(4.2)
4.18/1 5.3/7 6.4/9 8.1/31 10.3/28 10.4/31

4.90/1 5.1/5 8.4/16 11.7/28 12.4/30

(6.0)
5.98/1 6.1/5 11.0/15 14.0/28 14.0/30

(7.4)
7.38/1 7.6/7 14.5/17 15.8/30

(8.6)
8.58/1 8.5/5 13.9/14 18.5/30

(2.8)
2.81/1 2.7/6 7.9/16 9.8/27 11.1/30

(4.2)
4.22/1 4.0/5 10.3/14 12.3/31 14.6/30

(5.5)
5.52/1 5.4/5 13.4/15 15.3/30

(6.8)
6.83/1 7.0/4 14.8/19 17.1/30

(8.0)
7.97/1 7.8/4 16.4/18 18.7/30

(1.5)
1.48/1 1.3/4 8.1/16 13.8/32

(2.8)
2.81/1 3.2/5 8.5/13 11.8/30

	B.S.	H.I.	F.S.	ELEV.
		760.45 ✓		
45+50				756.44
46+00				755.41
+50				754.68
47+00				754.17
T.P.	3.10	757.11 ✓	6.44	754.01 ✓
+50				754.01
48+00				753.47
+50				750.69
49+00				751.77
+50				751.11
50+00				750.31
+50				749.60
51+00				748.83
B.M.#6	1.02	751.17 ✓	6.96	750.15 ✓

12-14-28

(4.0) PAVE. (3.8) INT. CURB

✓ 4.01/1 3.83/1.5 7.8/6 9.3/16 11.3/30

(5.0)

✓ 5.04/1 5.3/4 9.1/12 10.7/20 12.5/34

(5.8)

✓ 5.77/1 6.0/4 10.8/15 13.1/23 14.1/32

(6.3)

✓ 6.28/1 6.6/4 14.7/23 15.5/30

3.10/1 3.3/4 5.5/5 6.2/12 9.9/21 11.8/27 13.0/33

(3.6)

✓ 3.64/1 3.9/4 5.9/8 7.4/12 10.8/20 12.7/30

(4.4)

✓ 4.42/1 4.6/4 8.5/10 11.7/20 12.5/21 13.3/24 12.5/24 12.7/30

(5.3)

✓ 5.34/1 5.9/4 11.9/13 14.2/30

✓ 6.00/1 5.9/3 11.8/13 14.0/30

✓ 6.80/1 6.5/3 11.8/12 14.1/30

(7.5)

✓ 7.51/1 7.5/4 12.5/16 15.6/30

(8.3)

8.28/1 8.2/4 12.9/12 14.3/30

	B.S.	H.I.	F.S.	ELEV.
		751.17 ✓		
51+50				748.55.
52+00				748.02.
+50				747.40.
53+00				746.89.
+50				745.68.
54+00				744.76.
+50				743.77.
55+00				742.56.
T.P.	1.20	743.14 ✓	9.23	741.94 ✓
+50				741.70.
56+00				740.87.
+50				740.07.
57+00				739.30.

12·14·28

(2.6)
✓ 2.62/1 2.6/5 8.6/16 8.4/30

(3.2)
✓ 3.15/1 3.1/4 6.5/8 9.9/30

(3.8)
✓ 3.77/1 4.1/5 5.9/10 6.6/11 9.0/31

(4.6)
✓ 4.58/1 6.3/13 8.4/18 10.8/35

(5.5)
✓ 5.49/1 8.5/13 11.3/30

(6.4)
✓ 6.41/1 6.5/6 7.5/13 12.3/34 14.0/39
18.0/30 18.0/32 14.0/33

(7.5)
7.45/1 7.9/8 13.3/18 14.6/23 15.6/34 14.6/35
15.1/35

(8.8)
✓ 8.81/1 9.0/4 12.4/14 14.9/30

(1.4)
✓ 1.44/1 1.7/3 5.5/12 8.5/30

(2.3)
✓ 2.17/1 2.6/4 6.9/12 9.9/30

(3.1)
✓ 3.07/1 3.4/4 9.1/13 12.7/24 13.6/30

(3.8)
3.84/1 3.9/3 7.8/12 14.5/24 14.7/30

	B.S.	H. I.	F.S.	ELEV.
		743.14 ✓		
57+50				738.55
58+00				737.69
+50				736.90
T.P.	4.39	741.31 ✓	6.22	736.92 ✓
59				735.95
+50				735.59
60+00				735.82
+50				736.22
61+00				736.49
+50				736.73
62+00				736.97
+50				737.44
63+00				738.05

12-15-28

(4.6)
4.59/1 5.1/4 12.4/17 16.6/30

(5.5)
5.45/1 6.3/5 12.4/18 15.6/30

(6.2)
6.24/1 6.6/4 12.6/19 18.4/30

(12-14-28)

(5.4)
5.36/1 5.7/3 11.9/12 15.4/26 16.6/32

(5.7)
5.72/1 5.7/3 12.4/12 14.7/17 17.9/32

(5.5)
5.49/1 6.4/4 14.2/18 18.0/33

(5.1)
5.09/1 5.5/3 12.4/17 16.3/33

(4.8)
4.82/1 5.1/3 9.6/12 11.5/25 13.5/31

(4.6)
4.58/1 4.7/3 9.2/14 10.4/32

(4.3)
4.34/1 4.3/6 4.6/12 7.0/22 7.3/30

(3.9)
3.87/1 3.8/4 6.1/8 6.6/24 7.9/26 7.9/32

(3.3)
3.26/1 3.4/4 6.0/11 6.7/20 5.9/32 6.1/28 7.2/30

	B.S.	H.I.	F.S.	ELEV.
		741.31		
63+50				738.15
T.P.	2.06	740.19	3.18	738.13
64+00				738.03
+50				738.15
65+00				738.22
+50				737.74
66+00				736.41
+50				734.53
67+00				732.75
+50				731.29
68+00				729.76
+50				728.01
69+00				726.19
B.M.#7			5.30	734.89

12-15-38

(3.1)
3.16/1 3.5/4 7.1/13 7.3/23 7.0/25 7.1/30

(2.2)
2.16/1 2.7/4 5.0/14 6.4/16 7.2/23 5.7/27 5.4/31

(3.0)
2.04/1 2.3/3 6.7/16 7.0/24 5.5/28 5.5/30

(2.0)
1.97/1 2.6/7 5.9/15 6.9/26 6.0/27 6.0/30

(2.3)
2.45/1 3.4/5 3.9/12 5.5/22 6.1/29 6.2/30

(3.8)
3.78/1 4.0/5 6.3/21 8.8/32

(5.7)
5.66/1 6.1/4 7.6/7 8.6/13 9.3/30

(7.4)
7.44/1 7.7/4 8.1/9 9.6/13 9.9/30

8.90/1 9.8/6 9.8/11 10.2/30

(10.4)
10.43/1 10.9/6 10.4/15 10.7/30

(12.2)
12.18/1 12.4/13 12.2/33

14.0/1 14.1/5 16.1/15 16.0/27 16.6/30

CULVERTS

59+

56+

53+

50+

46+

44+

42+

37+

33+60

33+15

29+

25+25

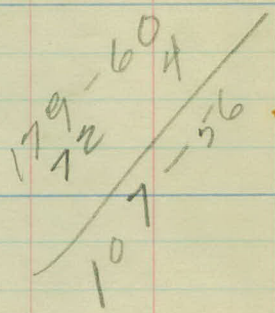
19+

15+

LT.	RT. 12-15-58
	BELOW PAVE.
5.7	9.1
3.4	10.6
3.0	6.2
1.6	6.8 ✓
3.1	7.7 ✓
6.6	10.8 ✓
2.2	5.0 ✓
3.5	4.9 ✓
2.1	6.8 ✓
4.4	8.5 ✓
4.5	6.3 ✓
4.0	6.8 ✓
6.2	M.H. 10.6 OUTLET 19.2 
5.0	M.H. 7.5 OUTLET 14.6 ↗

CULVERTS

BELOW PAVE.
LT. RT.

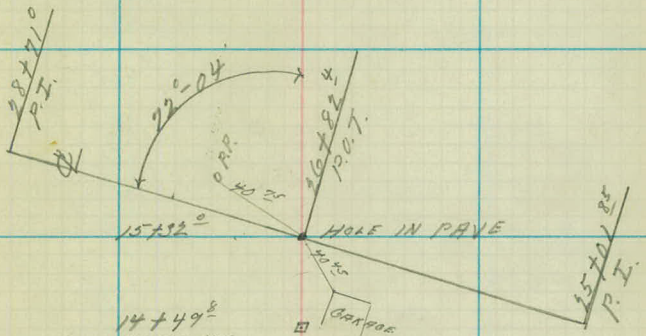


3-11-27

72-04
44 02

S

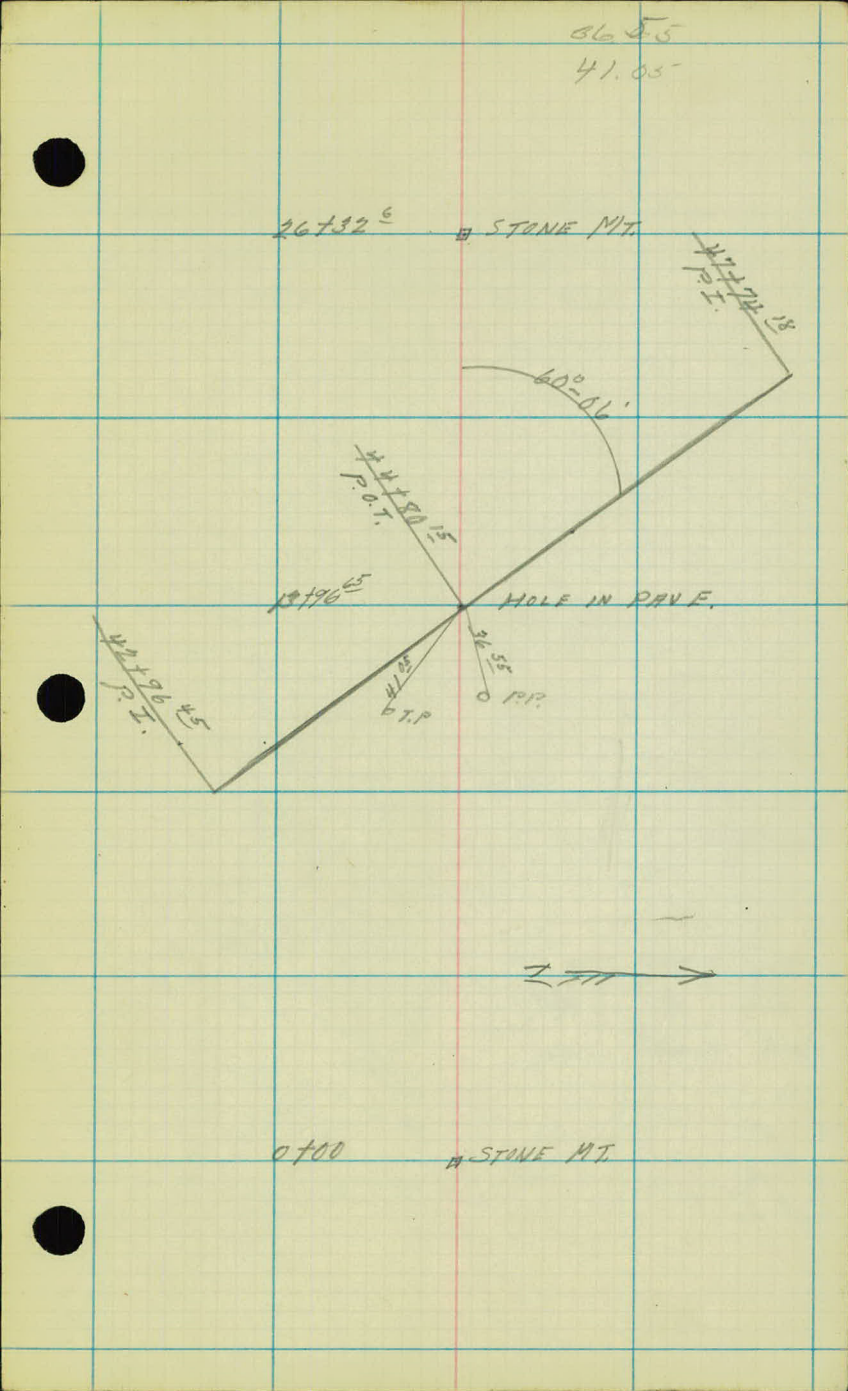
27+68.5 STONE MONT.

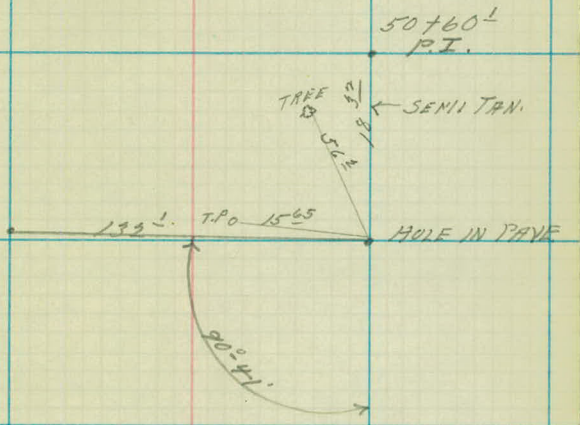


10767.9 IRON MONT.

0+00 MONT.
BURNS AVE.

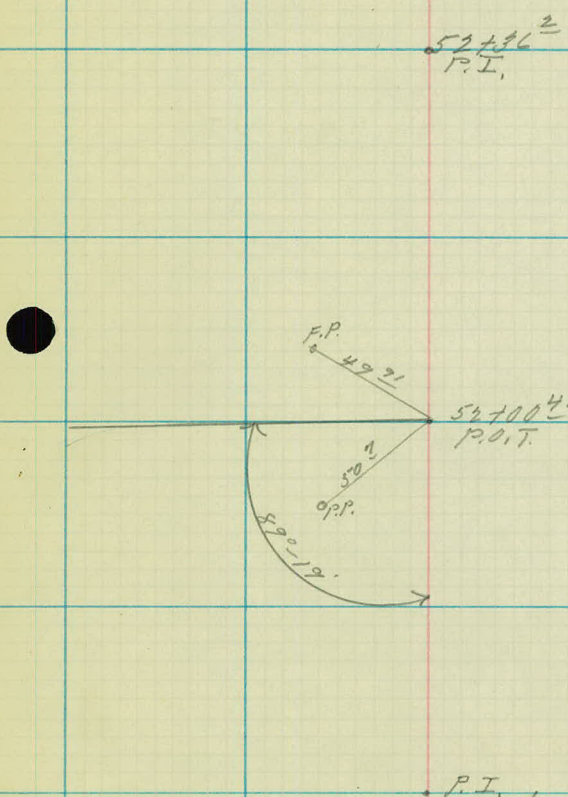
100.00
61.08
38.92


86.55
41.03
26+32.6
STONE MT.
47+74.18
P.I.
60°-01'
44+80.15
P.O.T.
18+96.65
HOLE IN PAVE.
36.55
P.P.
41.28
T.P.
44+96.45
P.I.
0+00
STONE MT.



P.I.
47+74 ±

12.7.15
4.93
1922.10


52+36 2
P.I.
F.P.
49 21
52+00 41
P.O.T.
50 1
O.P.P.
82°-19'
P.I
50+60 1

PROJ. #29 - S.T.H. #3.

X. SEC. ON THE LT. FROM STA.

0+00 TO STA. 64+00.

B.M	4.95	847.37 ✓		842.42 ✓
0+00				838.98
+50				
1+00				
+50				
2+00				
+50				
	4.04	838.66 ✓	12.75	834.62 ✓
3+00				
+50				
+75				
4+00				
+30				
+85				
5+00				
	2.10	827.10 ✓	15.66	825.00 ✓

5-18-29

LT.

TOP OF HYD.

7.4 8.5 8.37
51 33 23 8.39 (39.0)

4.9 5.3 8.25 8.63
51 33 23.5 23 8.84 (38.6)

5.2 4.1 7.1 8.85 9.24
51 35 28 23.5 23 9.42 (38.0)

2.2 2.5 4.3 8.2 9.61 10.04
51 44 36 30 23.5 23 10.10 (37.3)

6.4 7.0 8.6 10.0 10.38 10.77
51 37 31 27 23.5 23 10.82 (36.6)

9.3 9.4 11.4 11.49 11.89
51 35 27 23.5 23 11.95 (35.4)

4.1 5.8 4.51 4.88
51 36 23.5 23 5.09 (33.6)

6.5 6.8 6.93 7.19
51 36 23.5 23 7.21 (31.5)

7.4 8.1 8.09 8.45
51 35 23.5 23 8.48 (30.2)

4.4 5.4 7.0 9.25 9.63
51 39 32 23.5 23 9.64 (29.0)

ABOVE H.I.

12.7 11.9 11.7 10.7 11.46 11.84
51 48 43 29 23.5 23 11.89 (26.8)

11.6 10.2 2.4 11.3 13.34 13.70
51 46 41 30 23.5 23 13.75 (24.9)

2.3 6.9 12.3
51 39 29 14.5'

827.10

5+00

+18

+40

6+00

+50

+68

7+00

0.49 814.53 ✓ 13.06 814.04 ✓

+50

8+00

+25

+50

9+00

+50

1.57 803.67 ✓ 12.43 802.10 ✓

8-18-29

2.51 2.87
23.5 23 2.95 (24.2)

ABOVE H.I.

+5.0 +4.6 0.0 3.47 3.91
51 42 29 23.5 23 3.73 (23.2)

+5.0 +4.8 +3.8 1.2 4.58 5.02
51 47 40 29 23.5 23 5.15 (22.0)

3.0 6.1 7.43 7.83
51 30 23.5 23 7.80 (19.3)

+0.2 0.0 3.1 9.5 10.15 10.50
51 44 43 35 23.5 23 9.73 (17.2)

+4.9 +2.9 3.1 9.2 10.88 11.35
51 48 44 34 23.5 23 10.85 (16.3)

0.3 2.2 10.4 12.40 12.85
51 45 35 23.5 23 12.66 (14.4)

+5.1 +3.5 +2.5 2.2 2.51 2.90
51 44 35 26 23.5 23 2.79 (11.7)

+2.0 0.2 1.7 3.6 4.8 4.80 5.24
51 46 45 39 29 23.5 23 5.15 (09.4)

4.1 5.1 7.7 7.5 6.3 6.3 6.70
51 48 42 32 28 23.5 23 6.49 (08.0)

+5.3 +3.0 1.0 5.0 6.4 7.56 7.96
51 45 41 35 28 23.5 23 7.75 (06.8)

0.0 0.9 3.4 9.0 9.94 10.36
51 48 44 36 25.5 25 9.75 (04.8)

1.4 4.5 10.7 12.64 13.10
51 40 31 25.5 25 12.45 (02.1)

803.67

10+00

+50

11+00

B.M. 0.53 794.08 ✓ 10.07 793.60 ✓ 793.55

+50

12+00

+40

+57

13+00

+50

+78

14+00

2.20 793.10 ✓ 13.18 780.90 ✓

13+78

14+00

3-18-29

+5.4 +4.6 +3.5 3.5 4.15 4.60
51 49 38 31 23.5 23 3.85 (99.8)

2.5 .62 .68 .68 .62 6.40 6.81
51 31 30 28 27 23.5 23 6.80 (96.9)

5.1 4.5
7.3 5.1
6.6 6.1 8.5 9.4 9.3 8.7 8.87 9.23
40 37 32 31 28 27 23.5 23 7.98 (93.7)

+0.6 0.6 2.2 1.6 1.73 2.18
51 40 27 26 23.5 23 3.12 (91.0)

2.1 3.9 5.1 4.36 4.78
51 46 27 23.5 23 5.43 (88.7)

4.9 6.3 6.60 7.02
51 34 23.5 23 7.14 (86.9)

+1.0 +1.2 0.8 2.6 7.1 7.53 7.94
51 48 43 41 31 23.5 23 7.87 (86.2)

0.8 5.9 9.2 9.97 10.38
51 36 32 23.5 23 10.06 (84.0)

1.5 3.4 12.1 12.37 12.73
51 46 32 22.5 22 12.53 (81.6)

5.8 11.0 13.73
51 40 23.5 13.9

+4.2 +1.7 1.7 11.9
51 47 46 30 14.8

3.10
23 2.86 (80.2)

3.62 4.05
23.5 23 3.85 (79.2)

		783.10			
14+50					
15+00					
15+50					
16+00					
16+50					
	0.63	770.22	13.51	769.59	
16+00					
16+50					
17+00					
+50					
18+00					
+40					
+70					
19+00					
B.M.	7.06	763.97	13.30	756.92	756.91
+20					

5-18-29

4.3 6.6 7.9 6.0 6.14 6.56
51 45 32 27 23.5 23 6.15 (76.9)

FILL SECTION.
9.9 13.3 14.0 12.7 10.7 10.92 11.36
51 44 38 31 25 23.5 23 11.70 (73.4)

+5.5 +5.0 +2.4 0.6 3.7 11.4
51 49 48 45 42 31 13.9

+2.5 5.5 11.5
51 41 34 16.5

1.06 1.42
23.5 23 1.00 (69.2)

3.74 4.12
23.5 23 3.56 66.6

+13.5 +10.6 0.0 6.04 6.42
51 50 35 23.5 23 5.81 64.4

+8.7 0.0 1.6 6.2 7.96 8.40
51 35 33 30 23.5 23 8.30 61.9

+7.0 +7.5 +3.5 1.8 8.9 9.86 10.35
51 50 47 40 27 23.5 23 10.65 59.5

5.9 10.3 11.8 11.0 11.33 11.72
51 39 30 27 23.5 23 12.16 58.0

3.9 5.8 11.7 12.21 12.62
51 34 26 23.5 23 12.79 57.4

9.6 10.6 10.2 11.9 13.10 13.58
51 41 34 26 23.5 23 13.30 56.9

7.0 8.1 8.8 6.5 7.25 7.6
51 37 30 25 23.5 23 7.37 56.6

763.97

20+00

20+50

21+00

21+50

22+00

22+50

23+00

12.85 775.89 / 0.93 763.04 /

+30

+45

24+00

+15

25+00

+40

5-19-29

64.0

6.2 8.0 7.4 10.9 10.9 7.6 8.01 8.43
51 39 35 34 51 26 23.5 23 7.78 56.0

5.0 7.0 8.6 8.58
51 37 33 23 8.10 55.9

2.0 3.8 7.4 7.74 8.14
51 39 27 23.5 23 7.77 56.2

0.7 2.4 6.4 6.73 7.15
51 34 27 23.5 23 6.82 55.6

Above H.I.

+3.3 +2.3 +2.3 0.2 5.2 5.78 6.17
51 49 41 38 33 23.5 23 5.66 58.3

+3.8 +3.2 +3.2 4.0 4.07 4.50
51 48 41 30 23.5 23 4.15 59.8

+1.7 1.2 2.67 3.05
51 29 23.5 23 2.53 61.5

10.8 13.0 13.40 13.85 13.4
51 35 23.5 23 13.36 62.0

10.0 11.1 13.6 13.6 12.7 12.90 13.32
51 40 33 30 27 23.5 23 12.91 63.0

8.9 11.1 12.0 11.1 10.56 11.00
51 42 30 27 23.5 23 10.90 63.0

3.2 7.9 11.8 11.8 10.3 10.01 10.41
51 43 35 31 27 23.5 23 10.33 60.6

+0.8 +0.9 8.3 8.3 6.7 6.48 6.89
51 49 36 31 27 23.5 23 6.91 69.0

+1.1 +0.1 4.2 5.10
51 46 36 23 5.24 70.7

25+40 BEG. OF CONC. BLOCK WALL

		775.89			
26+00					
	9.37	784.86 ✓	0.40	775.49 ✓	
26+62	END OF WALL				
27+00					
+50					
28+00					
+25					
	2.72	784.90	2.72	782.14 ✓	782.18
+55					
+88					
29+00					
+35					
+80					
30+00					
	0.77	780.88 ✓	4.79	780.11 ✓	
+50					

4-19-29

WALL

1.7 2.4 4.8 8.1 8.21 8.67
51 42 36 31 23.5 23 7.10 15.4

ABOVE H.I.

13.0 1.3 6.0 7.4 6.67 7.01 7.30
51 42 34 30 28 23.5 23 7.34 11.6

19.5

7.9.5 1.5 5.2 5.33 5.75
51 35 27 23.5 23 5.40

40.0

+6.9 +5.5 0.1 4.2 4.22 4.62
51 44 35 27 23.5 23 4.90

19.9

0.2 2.9 3.8 4.35
51 37 33 23 5.01

19.5

2.0 3.5 4.42
51 39 26 5.57

18.7

+12.2 +7.3 0.0 2.3 3.08
51 42 34 32 26 6.18

18.5

+10.3 +8.7 +1.2 0.8 4.0 5.44 4.
51 47 36 33 30 25.3 6.36

18.2

4.7 5.6 6.13
51 40 23 6.65

18.1

5.7 6.3 6.9 6.73
51 40 26 23 6.77

18.2

2.7 3.0 5.0 6.9 6.73
51 49 36 31 23 6.68

17.6

+6.4 0.6 2.4 3.20
51 43 31 23 3.05

780.88

31+00

+50

32+00

+50

33+00

+40

+80

34+00

+50

7.57 781.83 ✓ 6.62 774.24 ✓

35+00

+50

36+00

+25

3-19-29

Above H.I.

+8.9	+1.7	1.1	2.6	3.6	3.64		
51	39	35	28	25	23	3.34	77.6
+6.4	+4.0	1.5	2.6	3.4	4.00		
51	47	34	27	25	23	3.65	77.2
+8.0	+1.6	2.0	3.4	4.30			
51	44	38	29	23	4.24		76.7
+3.1	3.4	3.9	4.7	4.9	5.08		
51	39	37	36	29	23	5.06	75.8
	3.4	4.0	6.5	6.6	5.93		
	51	47	42	26	23	5.96	74.9
	4.4	5.3	7.6	6.2	6.28		
	51	47	31	25	23	6.23	74.7
+7.0	+4.0	0.0	5.4	6.23			
51	44	40	32	23	6.05		74.8
	+7.0	1.0	3.6	6.27			
	51	38	34	23	6.03		74.9
	+7.4	2.7	5.2	6.50			
	51	37	25	23	6.23		74.9
+5.8	+1.7	5.2	6.6	7.79			
51	41	35	26	23	7.57		74.2
+4.3	0.0	3.6	7.2	8.11			
51	40	34	28	23	7.88		73.9
					8.3		
+4.7	2.4	6.2	7.9	8.45			
51	41	32	24	23	8.25		73.5
+7.0	0.4	5.7	7.1	8.63			
51	38	33	31	23	8.51		73.3

Use Borrow Pit Sect 0.123

781.23

+50

37+00

+50

38+00

9.50 781.38 ✓ 9.75 771.88 ✓

+50

+70

39+00

+50

40+00

+50

2.45 770.47 ✓ 13.36 768.02 ✓

41+00

+50

42+00

5-19-29

0.0 2.5 7.6 9.0 8.76
51 42 31 26 23 8.67 72.5

2.7 3.8 8.3 9.1 9.12
51 44 36 28 23 9.02 70.2

2.3 6.6 8.7 9.30
51 45 36 23 9.47 71.7

1.6 2.1 9.3 10.6 9.9 9.75
51 48 38 30 27 23 9.75 71.2

7.9 10.8 9.9 9.79
51 35 31 23 9.76 71.6

1.6 2.9 9.4 10.2 9.82
51 47 36 29 23 9.79 71.6

2.9 3.8 7.5 7.8 9.8 10.2 10.21
51 48 43 35 31 27 23 9.73 71.7
ABOVE H.I.

+3.5 +0.5 0.8 6.8 10.1 10.99
51 51 45 35 26 23 10.15 71.2

+4.4 1.0 4.1 10.4 11.50
46 41 38 33 23 10.86 70.5

+0.6 6.7 9.5 11.5 12.11
51 40 33 25 23 11.95 69.4

+12.3 +4.6 0.4 0.8 2.05
51 41 29 27 23 2.45 68.0

+10.4 +3.3 0.3 2.1 3.11
51 40 34 29 23 3.65 66.8

+1.5 0.6 1.7 2.4 4.2 4.17
51 43 39 30 26 23 5.09 65.4

770.47

+50

43 +00

+50

B.M. 0.74 763.34 7.85 762.62 762.60

44 +00 FILL SECTION

45 +00 " "

46 +00 FRAME PIPE

3.92 758.86 8.40 754.94

+19

+60

47 +00

+27

+40

48 +00

+30

+50

5-19-29

$\frac{1.0}{51}$ $\frac{3.2}{39}$ $\frac{6.6}{31}$ $\frac{5.8}{27}$ $\frac{5.47}{23}$ 6.56 63.9

$\frac{4.6}{51}$ $\frac{6.0}{40}$ $\frac{8.2}{36}$ $\frac{8.6}{29}$ $\frac{7.6}{26}$ $\frac{6.96}{23}$ 7.83 62.7

$\frac{8.6}{51}$ $\frac{10.1}{39}$ $\frac{11.8}{36}$ $\frac{11.8}{33}$ $\frac{8.7}{26}$ $\frac{8.61}{23}$ 9.24 61.3

$\frac{0.2}{51}$ $\frac{1.0}{38}$ $\frac{2.7}{33}$ $\frac{3.2}{27}$ $\frac{3.84}{23}$ 3.75 55.1

$\frac{3.0}{51}$ $\frac{4.1}{30}$ $\frac{4.33}{23}$ 4.24 54.7

$\frac{+0.5}{51}$ $\frac{1.0}{47}$ $\frac{4.3}{37}$ $\frac{4.89}{23}$ 4.67 54.2

$\frac{+2.5}{51}$ $\frac{0.0}{39}$ $\frac{4.2}{34}$ $\frac{5.18}{23}$ 4.77 54.1

$\frac{+6.0}{51}$ $\frac{0.0}{45}$ $\frac{2.1}{42}$ $\frac{4.1}{31}$ $\frac{5.31}{23}$ 4.80 54.1

$\frac{+9.7}{51}$ $\frac{0.5}{38}$ $\frac{4.1}{35}$ $\frac{5.7}{24}$ $\frac{5.48}{23}$ 5.37 53.5

$\frac{+10.6}{51}$ $\frac{1.6}{34}$ $\frac{6.0}{28}$ $\frac{6.12}{23}$ 5.79 53.1

6.2

$\frac{+4.2}{51}$ $\frac{+3.5}{49}$ $\frac{0.8}{46}$ $\frac{3.5}{34}$ $\frac{5.4}{25}$ $\frac{6.26}{23}$ 6.15 52.7

758.86

+90

49+00

+50

0.83 753.46 ✓ 6.23 752.63 ✓

50+00

+50

51+00

+50 PRI. ENT. LT.

52+00 PRI ENT. LT

B.M. 3.33 753.47 3.33 750.13 ✓ 750.14

+50

53+00

+32

+55

54+00

2.88 747.32 ✓ 9.03 744.44 ✓

+8.3 +4.1 1.5 6.7 6.69
51 40 36 28 23 6.95 51.9

+7.5 +4.3 4.0 5.7 6.8 6.77
51 43 35 31 27 23 7.08 51.8

+3.1 +1.5 4.1 7.6 7.7 7.2 7.03
51 46 39 34 29 27 23 7.74 51.2

NAIL IN T.P. LT STA. 49+50

+5.6 +3.8 2.3 3.4 2.3 1.94
51 47 38 31 30 23.7 5.12 50.4

+4.2 +0.3 4.4 4.4 2.7 2.49
51 43 40 37 30 27 3.87 49.6

2.3 4.4 5.4 3.2 3.13
51 37 37 31 27 4.63 48.9

3.2 4.0 4.01
51 34 24 4.93 48.6

4.4 4.9 4.94
51 37 23 5.44 48.1

CENTER OF PAVEMENT.

1.1 1.4 1.9 5.0 5.98
51 45 38 27 23 6.03 47.5

+2.1 0.7 3.6 7.4 6.5 6.94
51 41 34 28 25 23 6.87 46.6

+7.3 +6.0 +2.8 3.2 6.2 7.46
51 45 43 35 31 23 7.50 46.0

4.9
+4.0 6.9 7.8 7.85
51 34 27 23 7.84 45.6
4.1

+5.0 3.8 7.7 8.6 8.50
51 39 32 26 23 8.65 44.8

74732

+50

55+00

+50

56+00

+50

57+00

+50

58+00

4.47 741.92 9.87 737.45

+50

59+00

+50

60+00

+50

3-20-29

+10.6	2.8	3.9	3.0	2.91		
51	35	28	25	23	3.52	43.8
+4.4	2.7	4.5	3.7	3.41		
51	40	31	26	23	4.86	42.4
+1.3	0.7	5.6	6.3	5.1	4.31	
51	43	37	33	30	23	5.51	41.8
+1.5	3.5	7.4	6.0	5.62		
51	36	31	26	23	6.31	41.0
1.7						
2.0	5.1	9.9	9.9	7.4	6.77	
51	40	35	31	27	23	7.18	40.1
3.3	4.9	10.8	11.3	8.2	7.93	
51	45	39	31	26	23	8.02	39.3
2.3	3.3	4.6	12.2	12.2	9.0	8.65	
51	47	39	34	31	26	23	8.76	38.5
2.5	1.4	12.0	12.5	11.4	9.57	
51	41	37	32	29	23	9.61	37.7
+1.0	7.0	7.1	5.2	4.89		
51	42	29	26	23	4.97	36.9
1.2	1.2	8.5	8.6	5.8	5.78	
51	47	36	33	26	23	5.92	36.0
0.5	4.1	11.4	11.4	6.2	6.27	
51	43	34	32	26	23	6.31	35.6
+2.0	2.9	8.5	8.5	6.7	6.07	
51	34	33	30	27	23	6.07	35.8
+3.4	0.0	6.3	6.3	5.6	5.70	
51	38	30	28	25	23	5.70	36.2

	941.92			
+74				
61+00				
+50				
	6.03	743.05 ✓	4.90	737.02 ✓
62+00				
+27				
+50				
63+00				
+50				
64+00				
B.M.			8.15	734.90 ✓ 734.89 ✓

3-20-29

+4.8 0.0 5.7 5.7 5.5 5.66
51 34 29 27 25 23 5.57 36.3

+4.5 +3.7 4.2 5.6 5.57
51 49 38 25 23 5.44 36.5

+5.2 +2.8 1.8 4.7 5.4 5.30
51 41 34 30 25 23 5.19 36.7

+3.3 +1.6 0.0 5.3 5.9 6.06
51 46 41 37 29 23 6.03 37.1

+2.1 1.4 5.3 6.17
51 33 31 24.8 5.89 37.2

0.5 1.0 5.3 5.8 6.05
51 48 42 31 25.4 5.62 37.5

3.0 3.1 5.6 5.8 5.77
51 45 42 32 26 5.00 38.1

3.7 5.0 5.4 5.85
51 44 36 26.1 4.93 38.2

4.1 5.3 6.9 5.6 5.37
51 35 30 27 23.5 5.02 38.0

PLANS IN HAND

15+56 - 23' on Bt. - 24" C.M. - O.K.
19+71 - 13.5' " " - 24" C.M. - O.K.
40+85 - 10' " " - 15" C.M. - O.K.

~~15+00 - Clear 20 ft.~~

4+50 to 5+00 - Cl. 1 Tr. Gr. 3T.
12+00 to 13+00 Cl. 1 Tr. Gr. 1T.
14+00 to 15+00 Cl. 3 Tr. Gr. 7T.
15+50 to 16+50 Cl. 5 Tr. Gr. 6 Tr.

* 17+00 to 19+50 Cl. 5T. Gr. 11
* 18+50 to 23+00 Ditch section on LT.
* 21+00 to 23+00 Cl. 7 Gr. 8 Tr.
* 27+00 to 29+00 Cl. 7 Gr. 12.
* 30+00 to 32+00 Ditch section on LT.
* 30+00 to 32+00 Cl. 7 Gr. 11T.
* Cl. 10 Gr. 20 - for borrow bit at 35+00
* 39+00 to 42+00 Sand rock cut.
* 47+00 to 51+00 - Cl. 17 - Gr. 18
* 47+00 to 51+00 - Ditch section
* 60+00 to 62+50 - Cl. 25 - Gr. 32
* " " - Ditch section.

PROJ. 29-S.I.H.3 3-18-29
O.R.V.K.
W.S.M.

* 0+00 to 2+00 - Cl. 1 Tr. Gr. 4 Tr.
* 8+60 to 9+20 - Remove 60' old Guard Rail
* 10+00 to 11+00 - Cl. 1 Tr - Gr. 3 Tr.
* 14+00 to 16+00 - Cl. 5 Tr. Gr. 3 Tr.
* 17+00 to 18+00 - Cl. 2 Tr. Gr. 2 Tr.
* 18+00 to 21+50 - Cl. by acre - 6' from curb to width necessary. 0.16 ac

* 23+50 to 24+00 - Cl. 2 T.
* 24+00 to 25+00 - Cl. by acre. 0.04 ac
* 25+20 - Pl. surface drain.
* Place 6" sloping curb Sta. 25+30 to 25+36.
* Place 13" sloping curb Sta. 26+00 to 26+13
* 27+00 to 30+00 clear by acre. 0.04 ac.
* 30+00 to 30+50 - Cl. 2 T.
* 33+00 to 37+00 - Cl. by acre. 0.13 ac
* 38+00 to 38+50 - Cl. 1 Tr.
* 40+00 to 44+50 - Cl. by acre. 0.14 ac.
* 42+45 - Remove old surface drain - Pl. new surface drain.
* 42+85 - " " " " " " "
* 47+50 to 48+50 - Cl. 6
* 49+15 - Pl. surface drain.
* 49+00 to 50+00 - Cl. by acre 0.03 ac

* 50+90 - Remove old surface drain - Pl. new surface drain
* 55+00 - Pl. surface drain
* 56+00 to 61+00 - Cl. by acre. 0.18 ac
* 56+30 - Pl. surface drain.

* 59+50 - Pl. surface drain.
* 63+50 to 65+50 - Cl. by acre. 0.040
* 66+50 to 68+00 - Cl. 3T.