PLANS SURVEY

EAST COUNTY LINE

From N. St. Paul Rd. to County Road "E"

RAMSEY COUNTY PROJ. 27-04

Road & No. 4
File No. 12

1/4/27

12

East County Line Road

From No. St. Paul Road to Co. Road "E"

Proj. - 27-04

Index

December, 1926

W.H. Carlson

Office of [illegible] Engineer
Date Filed 1-4-27
File No. 12

27-04

12-9-26
HDK

Alignment.

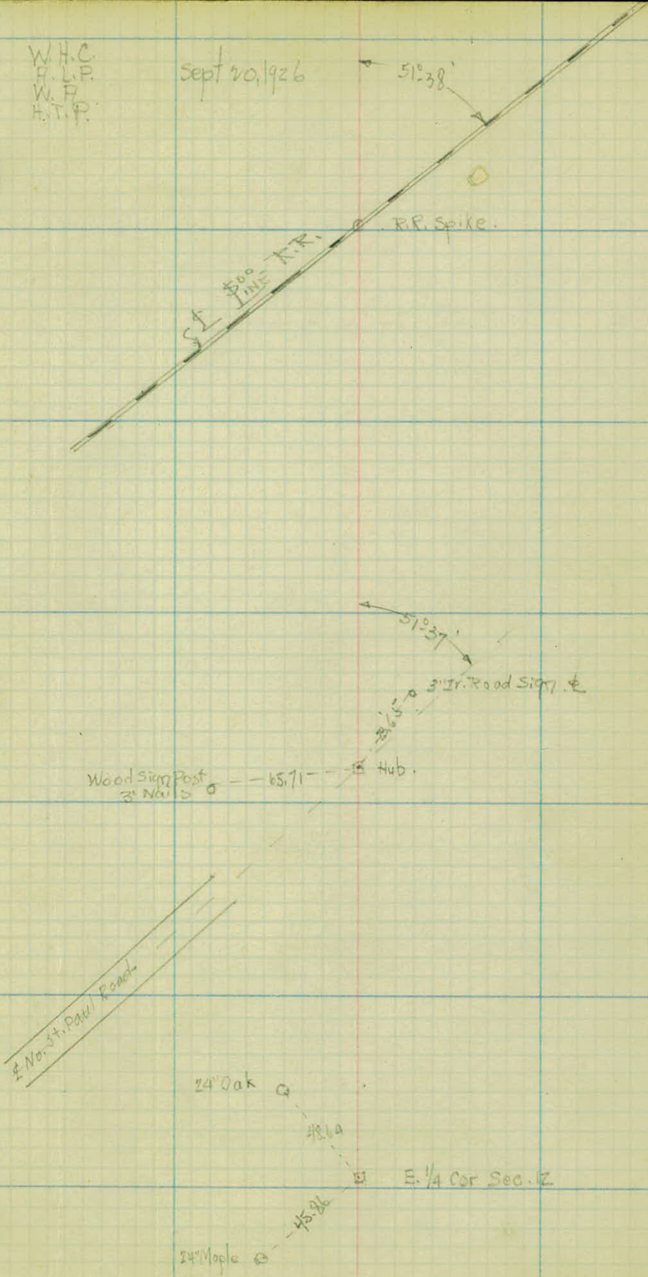
Station 379 - Station 503+23.7

Station	Point	Lt. Δ Rt.	Bear.
389+93.5	P.O.T.		
379+00.00	P.O.T.		N. 0° 53' E.
370+08.5			

(Road Map stationing)

W.H.C.
R.L.P.
W.R.
H.T.P.

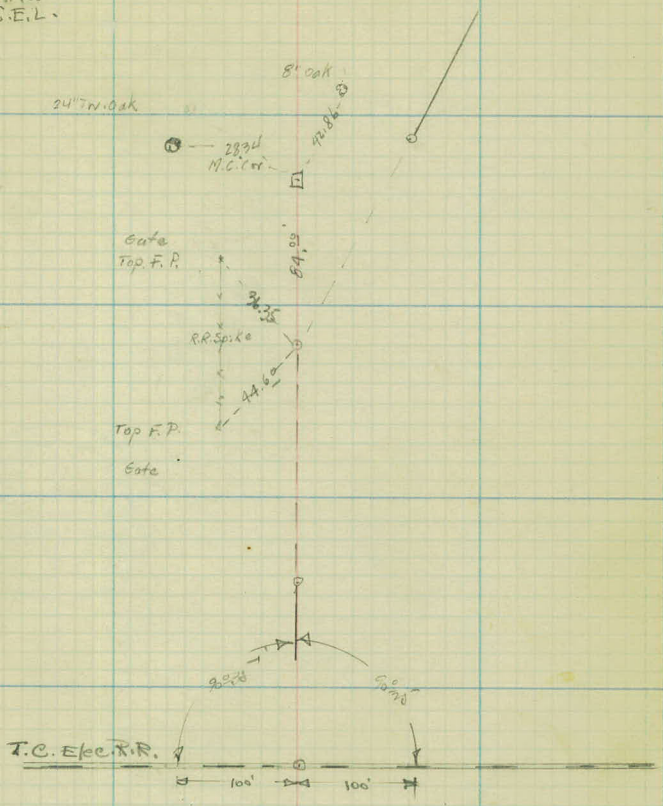
Sept 20, 1926



Station	Point	Lt.	Δ	Rt.	Bear.
					N. 30°-15' E.
417+35.16	P.T.		14°-37'		
417			12°-30.4'		12° C.H.
+50			9°-30.4		Δ 29°-14'
416			6°-30.4		P.I. 416+16.3
+50			3°-30.4		T. 124.75
415			0°-30.4'		L. 243.61
414+91.55	P.C.		0°-00'		R. 478.34
					N. 1°-01' E.
400+04.9	P.O.T.				
					N. 0°-53' E.
396+39.4	P.I. Mon.		0°-08'		

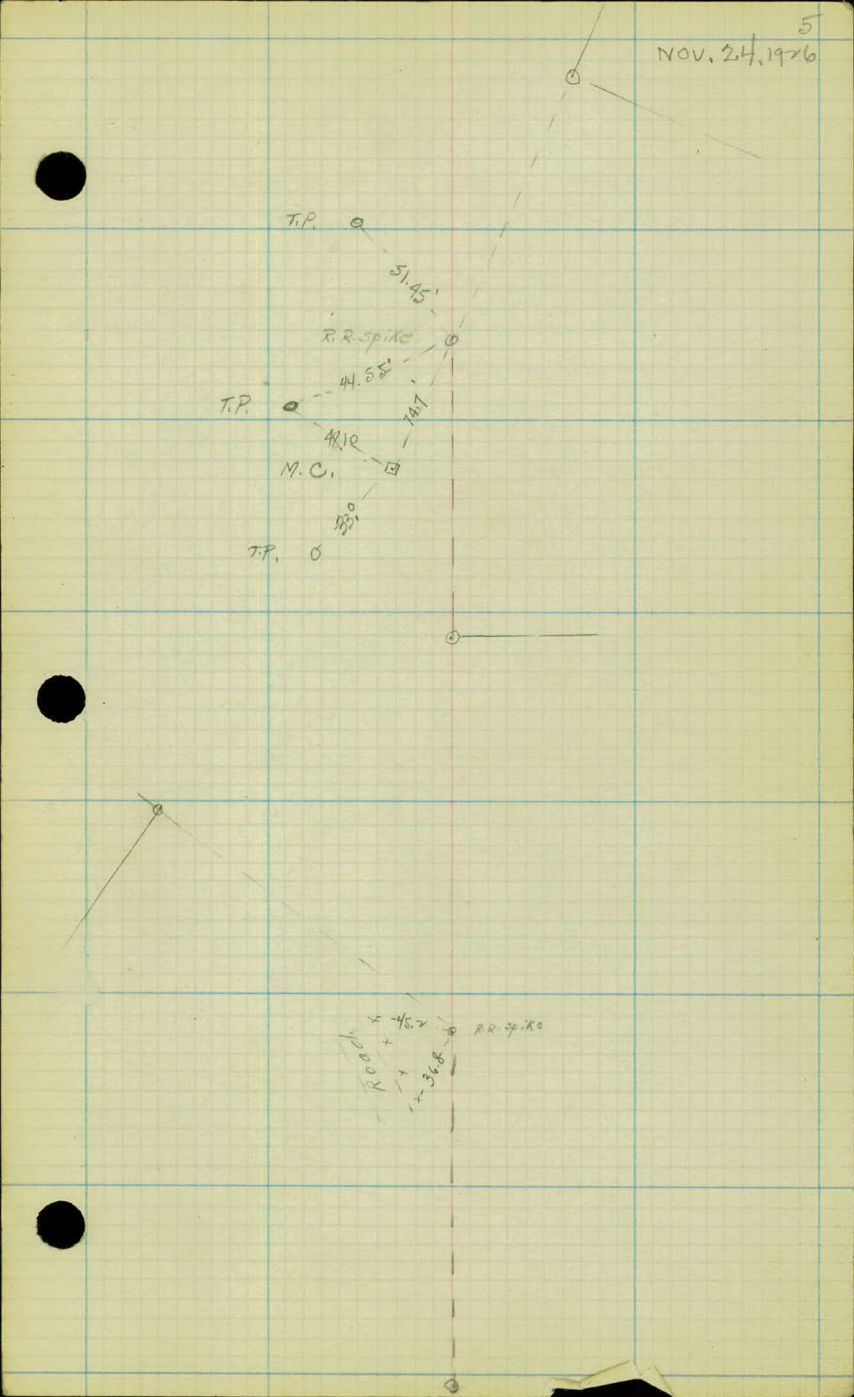
WH.C.
A.B.
A.L.
R.R.
C.E.L.

Nov. 23, 1926

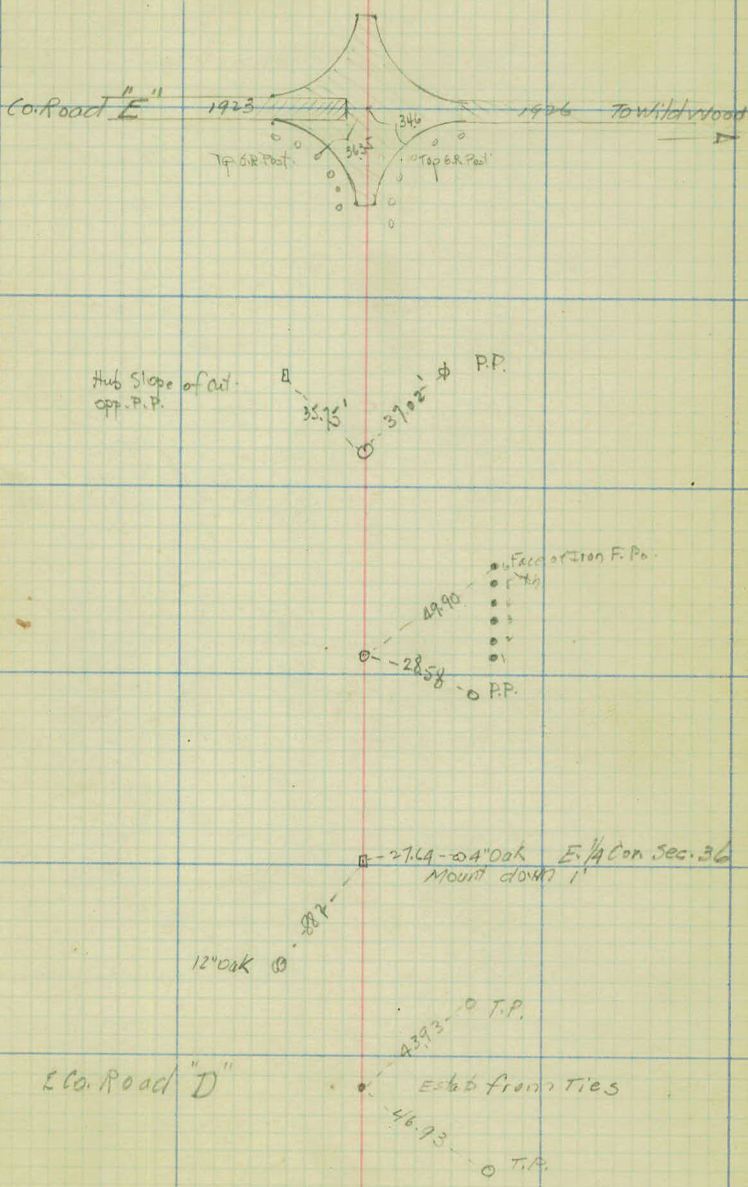


Station	Point	Lt. & Rt.	Rear.
			N. 10° 02' E.
429+33.08.	P.T.	12°-29'	
33.10 429		11°-09.6	8°-C.R.T.
+50		9°-09.6	Δ 29° 58'
428		7°-09.6	P.I. 427+79.7
33.03 +50		5°-09.6	T. 158.70
427		3°-09.6	L. 312.08
27.01 +50		1°-09.6	R. 716.78
426+21.0	P.C.	0°-00'	
			N. 23°-59' W.
423+30.79	P.T.	27°-07'	
30.87 423		24°-48.4	15°-0.2.4
+50		21°-03.4	Δ 54°-14'
422		17°-18.4	P.I. 421+65.4
+50		13°-33.4	T. 196.16
421		9°-48.4	L. 361.58
+50		6°-03.4	R= 383.06
38.10 420		2°-18.9'	
3.54 419 69.24	P.C.	0°-00	
			N. 30°-15' E.

NOV. 24. 1926

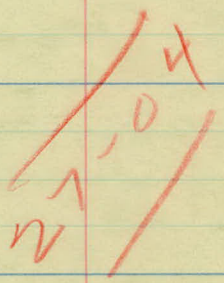


Station	Point	Lt. & Rt.	Bear.
503+23.1°	Int. of Pavements.		
489+53.7	P.O.T.		
484+82.00	P.O.T.		N. 0°-59' E.
476+84.7	P.I. Mont.	0°-02'	N. 1°-01' E.
450+46.8	P.I.	0°-02'	N. 0°-59' E.


Co. Road "E"
1923
1926
To Wildwood
34.6
36.35
Top G.R. Post
Top G.R. Post
Hub Slope of cut opp. P.P.
35.75'
37.02'
P.P.
Face of Iron F. Po.
5 Xh
49.90
28.58
P.P.
27.64
4" Oak
E 1/4 Cor. Sec. 36
Mount down 1'
12" Oak
T.P.
43.93
E Co. Road "D"
Estab from Ties
46.93
T.P.

station	Point	Lt. & Rt.	Bear.

£. Levels.



Station	+	H.I	−	Elev.
Bench Levels				
B.M.	4.94	996.11.		991.17
T.P.	6.47	998.89.	3.69	992.42.
✓	4.32	998.88.	4.33	994.56.
✓	5.96	1003.02.	1.82	997.06
B.M.	6.83	1002.27.	7.58	995.44
Σ Levels				
377			2.5	99.8.
+50			2.8	99.5.
378			3.2	99.1.
+40			3.9	98.9.
+60			4.1	98.2.
+80			4.0	98.3.
379			4.0	98.3.
+07.3			3.9	98.4.
+18			3.9	98.4.
380			4.8	97.5.
381			4.6	97.7.
382			5.4	96.9.
383			6.8	95.5.
T.P.	3.33	999.27.	6.33	995.94.
384			5.3	94.0.
385			5.5	93.8.
386			5.0	94.3.
387			4.6	94.7.

W.H.C.
A.L.P. Sept. 20,
N.A. 1926
H.P.

R.R. Spike in P.P. 65' Lt. Sta 378+85

Lt.		Rt.
7.45 / 107	E. edge Pav.	
5.98 / 58.5	"	"
5.43 / 40	"	"
4.46 / 25	"	"
4.67 / 13.8	"	"
4.56 / 10.9	"	" end.
5.95 / 3.5	W.E. Pav. " end	

Station	+	H.I	−	Elev.
		999.27		
388			5.0	94.3
389			4.8	94.5
T.P.	3.32	997.60	4.99	994.28
389+903			3.36	94.28
+935			—	—
+967			3.32	94.28
390			3.3	94.3
391			3.7	93.9
392			4.5	93.1
393			5.5	92.1
394			5.8	91.8
395			6.1	91.5
T.P.	4.24	995.80	6.04	991.56
396			4.3	91.5
+397			4.0	91.8
B.M.	6.75	997.92	4.63	991.17
397			6.6	91.3
398			6.2	91.7
399			4.7	93.2
400			3.5	94.4
T.P.	4.70	999.25	3.37	994.55
			4.86	94.39
400+049			4.7	94.6
			4.74	94.51
401			4.6	94.7

Top of South Rail
℄ D.N.E. R.R.
Top of North Rail

℄ County Road "O"
L.I B.M #23 - Spike in T.P. N.E. Cor. Co. Road "O"

Top of South Rail
℄ Elec. R.R.
Top of North Rail

Sta	+	H.I	-	Elev.
		999.25		
402			4.9	994.4
403			5.1	94.2
T.P.	3.28	997.94	4.59	994.66
404			4.0	93.9
405			4.2	93.7
406			4.8	93.1
407			4.8	93.1
408			4.6	93.3
409			4.0	93.9
410			2.4	95.5
T.P.	11.43	1006.94	2.43	995.51
411			8.8	998.1
412			5.7	1001.2
413			2.7	04.2
T.P.	5.96	1012.56	0.34	1006.60
414			5.7	06.9
415			4.2	08.4
+50			4.2	08.4
416			5.1	07.5
+50			6.4	06.2
417			8.2	04.4
+35			9.0	03.2
B.M.	2.43	1003.55	11.44	1001.12
418			2.0	01.5
+50			3.6	1000.0

P.C.

R.R. Spike T.R. 34' Lt. Sta. 347+90

Station	+	HI	−	Elev.
		1003.55		
419			5.5	998.1
+69.2			8.1	95.5
420			9.0	94.6
+50			9.1	94.2
421			10.1	93.4
+50			10.5	93.1
T.P.	4.12	997.23	10.44	993.11
422			4.2	93.0
+50			4.7	92.5
423			4.7	92.5
+30.8			4.7	92.5
424			4.7	92.5
425			4.8	92.4
			13.35	983.88
426			4.8	92.4
+50			5.2	92.0
427			6.3	90.9
+50			6.6	90.6
428			5.5	91.7
+50			4.0	93.2
429			2.5	94.7
+33.08			1.3	95.9
B.M.	11.77	1004.97	4.03	993.20
430			6.8	98.2

P.C.

Top Ice Silver Lake.

R.J.

R.R. to T.P. 28' Lt 429+18

Station	+	H.I	−	Elev.
		1004.97 ✓		
431			4.2	1000.8
432			1.7	03.3
T.P.	8.40	1012.71 ✓	0.66	1004.31 ✓
433			7.4	05.3
434			6.0	06.7
435			5.2	07.5
436			4.6	08.1
437			3.5	09.2
438			3.0	09.7
439			3.0	09.7
T.P	9.74	1019.47 ✓	2.98	1009.73 ✓
B.M.	11.40	1019.47 ✓	11.40	1008.07 ✓
440			8.0	11.5
441			7.1	12.4
442			6.0	13.5
443			4.8	14.7
444			4.0	15.5
445			1.7	17.8
T.P.	12.80	1031.53 ✓	0.74	1018.73 ✓
446			9.7	21.8
447			6.3	25.2
448			2.9	28.6
449			0.2	31.3
T.P.	9.11	1040.22 ✓	0.42	1031.11 ✓
B.M	6.00	1040.22 ✓	6.00	1034.22 ✓

R.R. in T.P. 28' Lt. Sta. 4/39+10

R.R. in T.P. 28' Lt. Sta 4/49+63

Station	+	H.I	−	Elev.
		1040.72 ✓		
450			6.5	1033.7
+46.8			5.1	35.1
451			4.8	35.4
452			5.1	35.1
453			5.6	34.6
454			5.7	34.5
455			6.3	33.9
T.P.	0.63	1035.74 ✓	5.11	1035.11 ✓
456			3.0	32.7
457			4.8	30.9
458			5.9	29.8
459			6.2	29.5
460			6.0	29.7
T.P.	4.86	1034.57 ✓	6.03	1029.71 ✓
461			4.3	30.3
462			4.5	30.1
463			4.8	29.8
464			5.0	29.6
465			5.4	29.2
466			5.8	28.8
467			5.4	29.2
B.M.	6.75	1035.45 ✓	5.87	1028.70 ✓
468			5.6	29.9
469			5.0	30.5

R.R. spike in 12" Oak 33' Lt. Sta. 467+50

Station	+	H.I	−	Elev.
		1035.45 ✓		
470			4.5	1031.0
471			3.8	31.7
472			3.5	32.0
473			3.5	32.0
T.P.	9.39	1041.30 ✓	3.54	1031.91 ✓
474			9.3	32.0
475			7.8	33.5
476			6.2	35.1
B.M.	5.60	1041.30 ✓	5.60	1035.70 ✓
+84.7			4.3	37.0
477			3.9	37.4
478			1.5	39.8
T.P.	11.90	1052.39 ✓	0.81	1040.49 ✓
479			10.5	41.9
480			8.7	43.7
481			5.8	46.6
482			2.9	49.5
T.P.	11.62	1063.37 ✓	0.64	1051.75 ✓
483			10.8	52.6
484			7.2	56.2
+50			5.4	58.0
485			4.7	58.7
+50			4.8	58.6
486			5.7	57.7

R.R. Spike in 12" Oak 40' Lt. Sta. 476+05

Station	+	H.I	−	Elev.
		1063.37 ✓		
487			7.3	1056.1
488			8.7	54.7
489			10.2	53.2
T.P.	0.71	1054.00 ✓	10.08	1053.29 ✓
+53.7			2.4	51.6
490			4.0	50.0
491			7.7	46.3
B.M.	8.13	1054.00 ✓	8.13	1045.87 ✓
492			12.5	41.5
T.P.	0.22	1041.42 ✓	12.80	1041.20 ✓
493			4.8	36.6
494			9.7	31.7
T.P.	0.43	1028.85 ✓	13.00	1028.42 ✓
495			2.7	26.2
496			8.1	20.8
497			12.2	16.7
T.P.	0.26	1016.43 ✓	12.68	1016.17 ✓
498			3.6	12.8 ✓
499			6.8	09.6
500			10.0	06.4
501			12.6	03.8
T.P.	4.15	1007.93 ✓	12.65	1003.78 ✓
B.M.	6.34	1007.93 ✓	6.34	1001.59 ✓
502			5.3	02.6

R.R. Spike in 8" Oak 38' Rt. Sta. 490+93

R.R. Spike 8" Oak 40' Rt. Sta. 500+70

Station	+	H.I	−	Elev.
		1007.93		
502+73.7			5.62	1002.31
503+00			5.45	1002.48
503+23.7			5.40	1002.53
B.M.			1.96	1005.97

Top and Beg Pavement

✓ Pavement

✓ ✓ ℄ Co. Road "E"

R.R. Spike in Top of Stump 50'N. and 100'W. of Co. Rd "E" & E. Co. Line Road. (This B.M. was used on Proj 75-51

Check Levels.

	+	H.I	−	Elev.
B.M.	8.14	999.31		991.17
T.P.	3.11	997.77	4.65	994.66
✓	12.54	1008.57	1.74	996.03
B.M.	1.92	1003.04	7.45	1001.12
T.P.	3.00	997.00	9.04	994.00
B.M.	12.96	1006.19	3.77	793.23
T.P.	7.09	1012.99	0.29	1005.90
B.M.	9.86	1017.92	4.93	1008.06
T.P.	12.86	1030.22	0.56	1017.36
✓	9.84	1039.90	0.16	1030.06
B.M.	5.70	1039.90	5.70	1034.20
T.P.	0.56	1035.64	4.82	1035.08
✓	3.58	1034.37	4.85	1030.79
B.M.	6.59	1035.27	5.69	1028.68
T.P.	7.03	1038.98	3.32	1031.95
B.M.	3.29	1038.98	3.29	1035.69
T.P.	9.01	1047.49	0.50	1038.48
✓	13.02	1060.25	0.26	1047.23
✓	1.56	1057.32	4.49	1055.76
B.M.	11.48	1057.32	11.48	1045.84
T.P.	0.34	1044.64	13.02	1044.30
✓	0.12	1032.16	12.60	1032.04
✓	0.14	1019.33	12.97	1019.19
✓	1.16	1009.79	10.70	1008.63
B.M.	8.21	1009.79	8.21	1001.58
for deck B.M.			3.83	1005.96
	153.11		138.32	-91.17
				14.79

153.11
138.32
14.79 ✓

LI. B.M. #23
R.R. Spike in T.P. N.E. Cor. Co. Rd "C"

R.R. Spike in T.P. 34' Lt. Sta. 417+90

R.R. Spike in T.P. 28' Lt. Sta. 429+18

R.R. Spike in T.P. 28' Lt. Sta. 439+10

R.R. Spike in T.P. 28' Lt. Sta. 449+68

R.R. Spike in 12" Oak 33' Lt. Sta. 467+50

R.R. Spike in 12" Oak 40' Lt. Sta. 476+05

R.R. Spike in 8" Oak 33' Rt. Sta. 490+93

R.R. Spike in 8" Oak 30' Rt. Sta. 500+70

R.R. Spike Top Stump 50' N. and 100' W. of Co. Rd. E.

This B.M. was used on Proj 25-51

X-Sections.

station		Elev.
380+60	+02	997.7
380		97.5
+60	+03	97.8
+18		98.4
+073		98.4
379		98.3
+80		98.3
+60		98.2
+40		98.4
378		99.1
+50		99.5
377+00		999.8

W.H.C.
A.L.D.
R.R.
C.L.

H. E RH

Dec. 1926

+3.1 +3.1 -0.4 -0.7 -0.1 85 -0.4 -2.0 -2.0 -0.4 +2.6 +2.8
33 30 23 21 11 9 14 22 28 30 33

-0.6 -0.3 87 -0.3 -1.3 -1.0 +3.2 +4.2
33 15 8 11 20 26 33

-2.0 -2.0 -0.8 0.0 74 +0.4 +4.0
33 26 16 7 15 33

Top end of curb -1.8 -2.1 -0.3 77 +0.7 +1.4 +2.4
32.5 32.5 10 14 18 23

-2.0 -2.3 0.7 78 +1.0 +2.0
37.5 37.5 10.9 20 33

-2.0 -2.3 -1.7 -0.6 78 +0.8 +2.4
42.0 42.0 13.1 8 12 30

-2.4 -2.8 E. edge 1.01 -0.6 -0.2 80 -0.3 +1.5 +3.0 +8.0 —
54.5 54.5 Pav. = 25 18 10 13 28 34 37

Top + edge Curb
W. Edge Pavement
E. Edge pavement

-1.3 -1.0 -0.6 0.0 80 -0.7 -0.6 +0.6 +2.0 +8.8 —
40 29 17 8 10 18 25 33 35

-2.1 -1.3 -0.5 0.0 77 -0.6 +0.6 +2.5 +8.0 —
35 26 16 6 12 28 33 35

-1.25 -3.2 -2.3 -1.6 0.0 74 -0.8 -1.4 -0.6 +1.1
107 70 36 22 5 10 15 25 34

-2.8 -2.0 -0.5 69 -0.7 -1.6 +1.6 +1.7
33 25 13 12 15 23 33

-4.1 -4.1 -4.0 -4.0 -0.7 64 0.0 +2.0 +2.0
33 28 25 23 15 19 21 33

station		Elev
386+50	+0.7	94.5
386+00		94.3
+50	+0.3	94.1
385+00		93.8
384+00		94.0
+50	-0.8	94.7
383		95.5
+85	+0.3	95.8
+60	+0.4	96.2
382+00		96.9
+50	-0.2	97.5
381+00		97.7

				41	-0.6	-4.0	+0.5	+0.5	
+2.5	-2.0	-2.4	-0.4		11	20	29	33	
37	29	21	15						
-1.0	-3.8	-3.7	-0.7	43	-0.6	-4.0	-3.9	-4.6	-4.6
33	27	21	14		11	18	24	28	32
-5.0	-4.6	-0.4		46	-0.8	-3.9	-4.0	-3.2	-2.9
33	23	14			11	17	23	25	33
-5.6	-5.5	-0.3		47	-0.2	-5.0	-4.7		
33	24	14			10	20	33		
-5.8	-5.6	-0.3		47	-0.3	-4.7	-4.8		
33	25	13			10	19	33		
-5.8	-5.6	-0.5		40	-0.5	-4.9	-5.3		
33	26	13			11	17	33		
-5.5	-5.3	-0.6		42	-0.4	-3.7	-3.2		
33	26	14			11	18	33		
-4.6	-4.3	-0.7		39	-0.3	-1.6	-1.6		
33	26	14			11	24	33		
-3.2	-2.9	-0.9		35	-0.5	-2.5	-2.4	-0.1	
33	24	14			13	19	26	33	
-1.2	-1.0	-0.3		42	-0.5	-2.5	-2.8	+3.0	
33	18	11			11	17	24	36	
0.0		-0.3		37	-0.7	-2.7	-2.9	+3.0	
33		14			10	17	22	33	
+2.1	+2.1	-0.4	-0.9	-0.3	-0.5	-2.4	-2.7	+3.7	+3.7
33	28	24	20	13	10	15	22	31	33

Station		Elev.
391+00		993.9
+60	-0.1	94.3
+75	+0.1	94.4
390		94,3
+79	+01	94.4
+50	0.0	94.5
389+00		94.5
+25	0.0	94.5
+35	+0.1	94.6
388+00		94.3
+50	-0.3	94.4
387+00		94.7

	Lt.		Rt.
40	-2.7 -2.2 -2.7 -1.2 -0.6 33 28 24 18 13	40	-0.6 -1.7 -2.0 -1.7 13 15 26 33
39	-4.2 -3.0 -0.3 33 18 12	39	-0.3 -1.7 -2.0 12 15 33
37	-4.0 -2.8 -0.3 33 20 13	37	0.0 -0.8 -0.9 -0.3 -0.5 11 14 20 28 33
39	-3.8 -3.2 -0.7 0.0 33 21 15 12	39	0.0 -0.2 -0.5 14 23 33
38	-1.4 -0.8 0.0 33 15 9	38	0.0 -0.7 -1.2 -0.5 -0.3 13 15 25 27 33
38	-1.9 -1.4 -0.2 33 17 12	38	-0.4 -1.9 1.5 +1.0 +2.0 12 16 23 27 33
38	+2.0 -2.0 -1.3 -0.8 36 30 18 14	38	-0.7 -1.5 1.7 +3.0 +3.5 13 15 21 29 33
38	+3.6 -1.5 -1.8 -0.3 36 28 20 14	38	-0.6 -1.5 -1.6 +1.2 +1.8 14 16 22 27 33
37	-1.2 -2.0 -2.0 -0.9 -0.7 -0.2 33 18 26 22 15 14	37	-0.8 -1.3 -1.2 15 18 33
43	-2.8 -2.5 -0.4 33 19 13	43	-0.4 -2.3 -2.6 12 18 33
43	-2.2 -2.1 -0.2 33 18 13	43	-0.3 -2.4 -2.8 11 16 33
40	+0.4 -2.7 -2.4 -0.4 38 31 21 14	40	-0.7 -1.1 -1.3 0.0 0.0 13 17 21 29 33

Station		Elev.	
396+39A		91.8	Z.C.R.C.
+20	+0.1	91.6	
396		91.5	
+50	-0.1	91.4	
395		91.5	
+50	-0.3	91.5	
394		91.8	
+35	-0.3	91.8	
393+00		92.1	
+50	-0.4	92.7	
392+00		93.1	
391+50	+0.4	93.5	

LH	Σ	RH
-0.6/33 -0.4/15	4.3	-0.1/15 -0.1/33
-1.4/33 -1.6/25 -0.5/12	4.4	-0.4/17 -1.6/33
-0.8/33 0.0/20 -1.6/17 -0.7/12	4.5	-0.4/10 1.8/26 +2.0/33
-1.5/33 -0.4/19 -1.5/16 -0.8/11	4.6	-0.5/15 -1.9/20 -2.1/27 +1.2/31 +1.2/33
-3.0/33 -2.7/17 -0.4/11	4.5	-0.5/16 -2.3/21 -1.2/33
-3.3/33 -2.8/17 -0.6/11	4.6	-0.4/16 -2.1/21 -2.0/33
-3.3/33 -2.6/16 -0.6/11	4.3	-0.5/18 -2.1/22 -2.2/33
-2.7/33 -2.5/16 -0.5/11	4.3	-0.4/17 -2.4/23 -2.9/33
-0.7/33 -0.7/17	4.0	-0.7/17 -2.5/23 -3.2/33
-0.8/33 -2.6/22 -2.5/18 -1.0/13	4.5	-0.4/15 -2.4/21 -2.8/33
+1.2/33 +0.2/28 -2.2/24 -3.3/19 -0.8/14	5.1	-0.9/15 -2.0/19 -2.2/24 -1.4/25 -1.2/33
+1.3/33 +1.3/28 -2.3/22 -2.0/18 -0.5/13	4.7	-0.7/14 -1.7/17 -2.1/20 -1.1/33

Station		Elev.	
400 +50	-0.1	994.6	
+09	+0.2	94.7	Edge Ties
+07.3		94.51	North Rail
+02.5		994.39	South Rail
400 +00		94.4	- Edge Ties
+50	+0.5	93.7	
399		93.2	
+50	+0.9	92.6	
398 +00		91.7	
+50	+0.1	91.4	
397		91.3	
396 +63	+0.4	91.7	

LH				RH				
-2.0 -1.1 -4.6 -4.7 -0.3				-0.5	1.4	-2.0	-0.7	-0.3
33 26 22 19 13				12	16	23	25	33
-0.5	-0.1			-0.1	-0.6			
33	15			14	38			
+0.17				-0.18				
33				Rails 33				
+0.15				-0.70				
33	Top			Rail 33				
-0.3	0.0			0.0	-0.5			
33	12			12	33			
-0.6	-0.5			-0.7	-2.7	-2.9	+0.2	+0.1
33	11			12	16	23	27	33
0.0 -0.3 -3.2 -3.7 -1.0				-0.7	-3.0	-2.8	+0.2	+0.2
33 21 19 18 12				12	17	25	29	33
-1.3 -1.3 -2.7 -0.7				-0.6 -2.4		-3.0	-2.6	-1.7
33 19 15 12				13	17	23	30	33
-4.1 -4.0 -0.7				-0.6	-4.2	-3.7		
33 19 12				13	18	33		
-4.6 -2.0 -0.7				-0.5	-3.0	-3.4	-3.0	
33 18 11				12	17	24	28	
-3.3 -2.3 -0.6				-0.8	-2.5	-2.7	-0.5	
33 16 11				15	21	31	36	
-2.4 -1.7 -0.4				-0.4	-1.6			
33 19 11				14	33			

Station		Elev.
409		99.39
408		93.3
4+45	-0.2	93.1
407		93.1
406		93.1
405		93.7
404		93.9
4+50	-0.2	94.0
403		94.2
4+30	-0.1	94.3
402		94.4
401		94.7

Lt.	℄	Rt
−4.2/33 −5.3/31 −5.1/30 −4.7/29 −3.8/22 −1.4/18 −0.4/14	75	−0.4/10 −0.4/18 −3.0/24 −3.5/33
−2.2/33 −2.4/28 −4.2/25 −4.1/23 −1.5/19 −0.5/16	82	−0.3/10 −0.4/17 −2.6/25 −2.7/33
−2.0/33 −1.6/26 −0.4/14	84	−0.2/10 −0.3/18 −2.6/25 −2.5/33
−3.4/33 −3.0/26 −3.4/24 −3.0/23 −0.5/15 −0.4/13	56	−0.4/10 −0.5/19 −2.9/23 −2.9/33
−2.8/33 −3.0/24 −3.3/23 −3.3/21 −0.8/15	57	−0.2/11 −0.1/17 −2.2/21 −2.2/33
−1.7/33 −1.5/24 −3.3/22 −3.5/21 −0.7/16	51	−0.1/9 −0.2/16 −2.0/20 −2.0/33
−1.1/33 −1.3/25 −3.7/23 −3.5/21 −0.6/16	19	−0.4/10 −1.0/33
−1.7/33 −0.5/14	49	−0.8/13 −1.0/33
−2.0/33 −1.8/24 −3.8/22 −4.0/20 −0.5/13	17	−0.1/12 −1.5/14 −1.6/33
−2.2/33 −2.2/24 −4.1/22 −4.0/19 −0.7/13	45	−0.2/13 −0.4/33
−2.3/33 −2.2/24 −4.4/21 −4.4/19 −0.7/13	14	−0.4/12 −1.4/15 −1.0/21 −0.4/24 −0.4/33
−3.0/33 −1.6/25 −4.8/21 −4.8/19 −0.2/13	11.2	0.0/12 −1.1/17 −1.5/21 −0.5/24 0.0/33

Station		Elev.
414+50	+0.9	1007.8
414+00		1006.9
+50	+1.6	05.8
413+00		04.2
+50	+1.6	02.8
412+00		1001.2
+40	-1.2	1000.0
+35	+1.1	99.2
411+00		98.1
410+90	+1.1	97.9
+50	+1.3	96.8
410		95.5

LH.				RH.				
	-0.7 / 33	-0.7 / 26	-0.4 / 17	-0.2 / 10	0.0 / 16	-0.6 / 19	+0.4 / 22	+0.8 / 31	+1.1 / 33	+1.1 / 40
	+1.1 / 33	+1.1 / 37	-1.2 / 28	-1.4 / 28	-0.8 / 22	-0.2 / 12	0.0 / 19	+6.2 / 28	+11.2 / 34	+11.2 / 40
	+0.5 / 33	-1.2 / 31	-1.5 / 28	-0.6 / 22		-0.1 / 12	-0.4 / 16	+7.7 / 28	+14.4 / 37	+14.4 / 45
	-0.9 / 33		-0.3 / 20			0.0 / 13	-0.1 / 15	+0.6 / 17	+13.8 / 34	+18.0 / 45
	-1.0 / 33		-0.4 / 20			0.0 / 11	+0.5 / 17	+12.8 / 33	+17.5 / 40	
	-2.1 / 33	-1.0 / 27	-0.9 / 19			-0.1 / 16	-0.7 / 21	+8.5 / 34	+8.7 / 40	
	-3.1 / 33		-0.5 / 16			-0.3 / 15	-1.7 / 21	+5.7 / 33		
	-4.6 / 33	-3.5 / 22	-0.7 / 16			-0.4 / 16		-0.2 / 33		
	-2.8 / 33	-2.0 / 25	-0.5 / 14			-0.2 / 17	-3.8 / 23	-3.8 / 33		
	-2.1 / 33	-5.2 / 22	-0.7 / 14			-0.2 / 12	-0.3 / 19	-4.0 / 26	-4.3 / 33	
	-7.6 / 33	-8.5 / 26	-0.4 / 13			-0.4 / 10	-0.6 / 17	-5.7 / 26	-5.3 / 33	
		-12.7 / 33	-6.5 / 24	-0.3 / 15		-0.3 / 12	-5.7 / 26	-6.7 / 33		

Station		Elev.
420 +50		94.2
420		94.6
+69		95.5
419		98.1
+50	-1.7	1000.0 99.8
418		01.5
+35		03.3
417		04.4
+50		06.2
416+00		07.5
+50		08.4
415+00		08.4

Lt.	℄	Rt.
-5.2/33, -3.2/22, -1.0/16	4.0	-0.1/15, -5.1/27, -5.9/33
-5.4/33, -3.8/21, -0.1/12, -0.5/10	3.6	+0.4/7, +0.4/24, -3.6/34
-6.1/33, -5.1/22, +0.3/10	2.7	+0.7/9, +0.5/22, +0.1/27, -0.7/33, -0.4/39, 0.0/42
-8.5/33, -7.5/24, -0.1/11	11.1	0.0/18, +0.2/24, +6.0/35, +10.3/38
-9.5/33, 0.0/17	9.3	-0.5/14, -1.0/19, +7.0/32, +6.4/33
-0.7/33, -0.7/27, -0.1/24	7.2	-0.7/19, -0.9/23, +0.7/27, +0.4/33
+0.4/33	5.8	-0.0/17, -1.2/19, -1.2/21, +2.8/26, +2.7/33
0.0/33, +0.2/23	4.7	+0.2/16, -0.2/20, +3.0/24, +3.0/33
+1.6/43, -1.1/36, +0.4/28, +0.6/12	7.0	+0.7/12, -0.7/14, -0.7/16, +3.5/21, +4.0/33
-2.2/33, -3.2/32, -3.1/29, 0.0/23	5.6	-0.1/13, -0.4/17, +4.1/24, +6.6/26, +7.0/40
-1.3/33, -1.0/27, -3.0/26, -0.1/19	1.8	-0.6/19, +4.8/28, +7.1/31, +7.2/40
-0.3/33, -1.6/26, -0.6/19	4.2	0.0/13, +0.8/25, +4.8/34, +8.3/36, +8.5/40

station		Elev
+26+50		92.0
426		92.1
+65	-0.1	92.3
425		92.4
+50	-0.2	92.3
424		92.5
+30.8		92.5
423		92.5
+50		92.5
422		93.0
+50		93.1
421		93.4

Lt.	℄	Rt.
−3.3/38 0.0/29 +0.6/16	[illegible]	−0.7/18 −4.7/27 −5.2/33
−4.5/33 −3.4/23 −0.3/14	49	−0.7/15 −0.7/24 −3.3/29 −3.8/33
−4.2/33 −2.7/18 0.0/6	5.0	+0.3/9 −0.2/19 −0.4/25 −2.0/33
−0.4/33 0.0/5	[illegible]	+0.3/12 −0.5/30 −1.8/33
+0.7/33 +0.1/15 −0.6/14 −0.5/9 −0.2/6	[illegible]	+0.2/8 −0.4/25 −1.4/28 −1.4/30 −0.7/33
0.0/33 0.0/24 −1.0/20 −1.0/17 −0.5/13	5.6	−0.4/21 −1.1/23 −1.1/33
−0.7/33 −1.6/25 −0.4/21 +0.1/7	[illegible]	−0.2/9 −1.3/14 −2.4/33
−0.3/33 +1.6/29 −1.5/26 −0.6/23 +0.1/10	[illegible]	−0.2/6 −1.8/10 −3.0/26 −2.9/33
−1.8/33 −0.8/28 +0.2/11	5.6	0.0/6 −3.0/13 −3.8/33
−1.5/33 −0.7/27 +0.1/13	5.1	−0.6/5 −4.4/14 −5.3/33
−2.0/33 0.0/28 +0.4/11	5.1	−0.0/4 −5.0/16 −6.1/33
−3.1/33 −0.2/24 −0.1/13	[illegible]	−0.1/8 −5.1/21 −6.6/33

Station		Elev.
1+32		1003.3
+50	+1.7	01.0
1+31		1004.8
+50	+1.4	99.6
1+30		98.2
+76	-0.8	97.4
+33.98		95.9
1+29		94.7
+50		93.2
1+28		91.7
+50		90.6
1+27		90.9

Lt.	℄	Rt.
+4.7/33, -1.4/25, -1.7/19, -0.1/15	38	-0.5/14, -3.0/19, -3.1/25, -1.2/30, -1.3/33
+8.8/33, -0.5/23, -1.2/18, -0.1/15	50	-0.3/13, -2.5/18, -2.7/24, +0.3/31, +0.2/33
+9.4/33, -0.4/23, -1.2/18, -0.3/15	62	-0.5/13, -2.4/18, -3.0/23, +1.5/30, +1.2/33
+8.0/33, -1.2/22, -2.0/19, -0.3/15	75	-0.5/14, -2.8/19, -3.2/23, -1.5/26, -1.7/33
+3.3/33, -2.0/25, -2.1/20, -0.2/16	89	-0.5/14, -4.4/33
+4.5/33, -2.0/26, -2.0/21, -0.1/17	97	-0.6/12, -4.3/22, -5.2/33
-2.0/33, -2.0/23, -0.1/15	1.5	-0.5/12, -0.7/17, -6.5/30, -6.8/33
-4.2/33, -4.8/28, -3.1/23, 0.0/16	21	-1.0/15, -6.4/25, -7.0/33
-2.6/36, -5.2/31, -5.2/30, +0.2/19	42	-1.1/14, -6.4/24, -6.8/33
-1.2/44, -3.5/41, -3.5/39, -1.1/35, -1.2/31, +0.8/26	56	-0.8/16, -5.5/26, -5.5/33
-1.8/33	[illegible]	-1.2/13, -5.2/23, -5.2/33
+1.2/33, +0.7/26	64	-0.7/14, -3.6/21, -5.1/33

Station		Elev.
#38		09.7
+50	+0.4	09.6
#37		09.2
+50	+0.6	08.7
#36		08.1
+50	+0.2	07.7
#35		07.5
+50	+0.5	07.2
#34		06.7
+50	+0.8	06.1
#33+00		05.3
#32+50	-0.8	04.5

4.	2	24.
+3.0 +2.8 -1.4 -1.7 -0.1 33 30 24 20 15	30	-0.4 -2.8 16 33
+2.1 -2.0 -2.2 -0.7 33 25 21 16	31	0.0 -1.2 -1.1 +0.9 17 18 24 33
0.0 +0.4 -2.1 -2.1 -0.2 33 27 23 20 15	32	-0.5 -1.8 -1.8 +1.1 15 19 26 33
-2.1 -1.7 0.0 33 20 14	40	-0.2 -2.0 -1.6 +0.5 +1.0 15 20 24 29 33
-2.4 -2.7 -0.1 33 23 14	46	-0.4 -1.8 -1.8 +0.4 +0.6 17 18 24 30 33
-2.4 -1.7 -0.2 33 18 14	50	-0.2 -1.6 -1.4 +0.9 +0.21 14 19 27 31 33
-3.4 -2.0 -0.4 33 17 12	54	-0.2 -1.5 -1.4 +1.8 +1.8 14 18 25 32 33
-4.1 -2.3 -0.4 33 19 13	56	-0.1 -1.2 -1.0 +3.3 +3.3 14 17 26 32 33
-3.2 -2.0 -0.3 33 19 14	61	-0.2 -1.4 -1.4 +2.0 +1.7 14 19 25 32 33
-3.0 -0.4 33 14	66	-0.3 -1.8 -1.8 -0.4 -0.9 15 21 25 29 33
+0.3 -2.0 -2.0 -0.3 33 27 19 15	74	-0.3 -2.3 -2.7 -1.1 -1.3 14 20 24 28 33
+4.2 -1.6 -1.8 -0.1 33 26 20 16	84	-0.6 -3.3 -3.4 -2.4 -2.8 14 20 26 28 33

station		Elev.
443+32	+0.4	1015.1
443		14.7
+50	-0.6	14.1
442		13.5
+50	+0.5	12.9 12.0
441		12.4 11.5
+40	+0.5	12.0
440		11.5
+70	+1.2	10.9
439		09.7
+70	+0.2	09.9
438+30	+0.1	1010.0

Lt. Z Rt.

+3.2/33 +3.2/29 -0.5/24 -0.7/20 0.0/16 — 69 — -0.2/14 -1.4/19 -1.0/28 +3.6/33

+0.8/33. +1.2/28 -1.2/25 -1.4/20 -0.0/16 — 73 — -0.3/14 -1.3/19 -0.9/28 +2.9/33

-0.9/33 -0.3/26 -1.5/25 -1.3/18 -0.1/15 — 79 — -0.1/13 -1.2/18 -0.7/28 +2.2/33

-2.1/33 -1.7/19 -0.2/15 — 31 — -0.3/14 -1.4/20 -1.0/30 +0.9/33

-2.6/33 -1.5/17 -0.3/14 — 38 — -0.1/14 -1.6/19 -0.6/27 +5.0/33

-1.5/33 -0.8/22 -1.5/20 -1.5/18 -0.1/15 — 43 — -0.2/15 -1.5/20 -0.4/27 +6.8/35

+3.2/33 +3.2/29 -2.0/22 -2.1/20 0.0/15 — 47 — -0.4/14 -2.6/21 -2.8/25 -2.2/27 -3.7/33

+0.9/33 +0.9/30 -2.2/24 -2.4/21 -0.1/15 — 52 — -0.6/16 -5.5/26 -7.0/33

-2.2/33 -2.3/24 -0.1/15 — 58 — -0.7/15 -6.0/28 -6.5/33

-3.5/33 -3.2/27 +0.2/16 — 70 — -0.8/17 -5.6/28 -5.6/33

-2.8/33 -2.8/24 +0.2/16 — 72 — -0.5/15 -5.0/25 -5.4/33

-0.2/33 -1.0/25 -1.2/20 +0.2/17 — 71 — -0.6/16 -4.8/24 -5.6/33

Station		Elev.
448+50	+1.4	30.0
448		28.6
+50	+1.8	27.0
447		25.2
+50	+1.6	23.4
446		21.8
+77	+1.1	21.1
+50	+2.2	20.0
445		17.8
+50	+0.6	16.1
444+00		15.5
443+60	-0.1	15.4

Lt.	Z	Rt.
+1.46 +1.14 +.50 -.07 -.09 .00 39 36 30 21 16 12	10.1	-.03 -1.5 -1.5 +1.5 +1.5 15 19 24 31 33
+9.8 +9.4 -.09 -.09 .00 33 31 18 16 13	11.5	-.04 -2.0 -2.8 -2.0 -3.0 16 21 26 28 33
+3.0 +2.8 -1.6 -1.9 -.01 33 30 23 17 13	5.5	-0.3 -2.2 -3.2 16 20 33
+1.4 +1.5 -1.4 -1.7 -.02 33 24 20 17 13	7.5	-.04 -1.5 -1.1 16 21 33
+3.1 +3.6 -1.5 -1.7 -.02 33 30 23 18 14	9.1	-.03 -1.3 -.06 +1.9 17 20 28 33
+4.7 +5.3 -1.4 -2.0 -.03 33 30 21 17 12	10.7	-.02 -1.9 -.08 +2.4 17 21 24 35
-.25 -2.0 -.03 33 18 13	0.9	-.02 -1.3 -1.7 -1.7 18 21 27 33
-6.4 -6.2 -.02 33 29 16	2.0	-.05 -6.6 -6.8 17 29 33
-6.1 -6.1 -.03 33 28 16	4.2	-.06 -5.8 -7.1 17 28 33
-5.5 -5.1 -.04 33 26 16	5.1	-.03 -6.0 -5.8 15 28 33
-4.7 -4.0 -.03 33 23 16	1.5	-.02 -4.7 -5.2 16 26 33
-.01 .00 -1.2 -1.3 .0 33 27 24 19 15	6.6	-.03 -1.4 16 33

Station		Elev.
454		10 34.5
+50	+0.1	34.7
453		34.6
+50	-0.3	34.8
452		35.1
+50	-0.0	35.4
451		35.4
+70	+0.3	35.4
+46.8		35.1
450		33.7
+45	+1.1	32.4
449+00		31.3

Lt.	℄	Rt.
+1.6/33 +1.2/28 -0.4/23 -0.7/19 0.0/15	5.6	-0.3/15 -2.7/20 -2.8/24 -2.1/28 -2.1/33
+0.8/33 +0.8/28 -0.8/25 -1.1/19 -0.2/15	5.2	-0.5/14 -4.0/21 -5.1/33
-3.5/33 -3.2/19 0.0/14	5.0	-0.4/14 -2.7/19 -3.3/33
-1.3/33 -1.5/29 -2.2/25 -2.1/19 0.0/15	5.2	-0.4/15 -2.8/21 -3.8/33
+2.1/33 +2.1/32 -1.3/27 -1.2/18 -0.3/15	4.9	-0.3/11 +0.1/19 +0.4/33
+5.1/33 -0.5/26 -0.1/18	4.7	-0.3/15 +0.2/23 +4.1/29 +4.0/33
-0.3/33	4.7	-0.2/14 -0.7/17 -0.8/22 +0.8/29 +1.1/33
-0.1/33	4.7	-0.5/17 -0.9/26 +0.7/26 +1.1/33
+0.5/33	5.0	-0.6/33
+0.5/33 +0.5/25 -1.7/21 -1.7/18 -0.4/14	6.4	-0.1/19 0.0/33
+0.7/33 +1.1/28 -1.6/23 -1.7/18 0.0/14	7.0	-0.1/14 -1.1/18 -0.8/25 +2.2/33
+9.2/33 +8.1/31 -0.5/20 -1.3/16 -0.2/12	6.7	-0.4/15 -0.6/22 +7.0/32 +7.0/33

Station		Elev.
460		29.7
+50	-0.2	29.5
459		29.5
+50	-0.2	29.6
458		29.8
+50	-0.6	30.3
457		30.9
+50	-0.9	31.8
456+00		32.7
+40	-0.3	33.6
455+00		33.9
454+50	+0.2	34.1

+1.2	+1.6	-0.8	-1.0	-0.1	52	0.0	-1.7	-1.4	+1.5
33	29	25	19	15		14	19	27	33
+0.3		-1.1	-1.1	-0.3	51	-0.1	-1.4	-1.2	+2.0
33		27	20	15		15	20	27	33
+0.8	+0.8	-1.4	-1.5	-0.1	50	0.0	-1.6	-1.1	+3.0
33	32	26	19	15		16	21	27	33
-1.0	-1.0	-2.2	-1.8	-0.4	49	+0.4	-2.8	-1.8	-1.0	-1.4
33	29	26	19	15		16	22	25	29	33
		-6.9	-6.1	-0.5	48	+0.2	-4.4	-4.7	
		33	26	15		17	27	33	
		-6.1	-6.0	-0.5	47	0.8	-4.5	-4.2	
		33	26	17		16	27	33	
		-5.11	-4.5	-2.4	46	+0.1	-3.4	+1.1	
		33	24	16		17	25	33	
-2.0	-1.7	-2.4	-1.2	-0.4	45	-0.3	-3.3	-4.0	
33	28	26	20	17		16	23	33	
+2.0	+2.0	-0.8	-1.0	0.0	44	-0.2	-1.8	-1.6	+0.7
33	30	26	18	16		17	21	28	33
-0.4	-0.5	-1.7	-1.1	-0.2	43	0.0	-0.7	-0.2	+3.0
33	29	26	19	15		18	20	26	36
-1.1	-0.4	-1.3	-0.5	-0.1	42	0.0	-1.0	0.0	+3.2
33	27	25	19	15		16	19	27	30
-0.8	-0.2	-1.0	+1.3	0.0	41	0.0	-1.8	-2.0	-0.6	-0.6
33	27	24	18	14		14	20	25	18	33

Station		Elev.
466		1028.8
465		29.2
+70	-0.1	29.3
+27	-0.2	29.4
464		29.6
+50	-0.2	29.6
463		29.8
+30	+0.1	30.2
462+00		30.1
+50	0.0	30.3
461		30.3
460+50	-0.1	30.2

LY				RY			
-7.8 / 34	-1.8 / 17		54	-0.3 / 15	-7.0 / 30	-7.7 / 33	
-2.7 / 33	-3.3 / 23	-0.2 / 17	50	0.0 / 15	-5.0 / 28	-5.2 / 33	
+3.0 / 33	-1.7 / 26	-1.0 / 20	-0.4 / 16	46	-0.4 / 15	-3.0 / 26	-3.8 / 33
+14.5 / 37	+0.2 / 24	-0.7 / 18	0.0 / 15	42	-0.1 / 15	-1.5 / 20	-1.8 / 27	+0.9 / 33
+11.8 / 37	-0.5 / 23	-1.1 / 18	-0.1 / 15	38	-0.1 / 14	-1.2 / 19	-0.9 / 24	+3.3 / 33
+1.2 / 33	-1.3 / 28	-1.6 / 21	-0.2 / 16	34	-0.1 / 13	-2.2 / 18	-2.0 / 24	+0.2 / 19	-0.8 / 33
+0.4 / 33	+0.4 / 32	-2.2 / 28	-1.8 / 20	-0.1 / 15	30	-0.4 / 14	-3.9 / 23	-4.6 / 33	
-1.4 / 33	-1.5 / 28	-2.3 / 24	-2.2 / 19	-0.4 / 17	26	0.0 / 15	-1.4 / 20	-0.6 / 33	
-2.1 / 33	-2.1 / 19	-0.3 / 14	22	-0.1 / 16	-2.7 / 23	-2.5 / 33	
-0.6 / 33	-2.1 / 28	-1.7 / 18	-0.3 / 14	18	-0.1 / 15	-1.4 / 27	-1.4 / 25	+0.2 / 28	+0.2 / 33
+3.0 / 33	-1.3 / 26	-1.5 / 19	-0.1 / 14	14	0.0 / 15	-1.0 / 19	-0.4 / 27	+5.8 / 35	
+3.3 / 33	-0.8 / 26	-1.3 / 19	0.0 / 15	10	0.0 / 14	-0.9 / 18	-0.1 / 25	+5.4 / 33	

station		Elev.
+16	+0.1	1032.1
472		32.0
+40	0.0	31.7
471		31.7
+50	-0.3	31.4
470+00		31.0
469+50	+0.2	30.7
469		30.5
+33	+0.3	30.2
468		29.9
+45	+0.4	29.6
467		29.2

LT	#	RT
-.50 -.08 -.13 0.0 33 23 18 13	47	-.03 -1.7 -.06 +13.8 15 19 22 37
+80 +93 -.02 -.06 -.01 33 31 21 18 14	48	-.1 -.03 .00 +12.8 15 20 23 35
+80 +75 -.05 -.07 0.0 33 32 23 19 15	49	-.2 -.9 -.05 +6.5 16 19 24 34
+76 +74 -.01 -1.0 0.0 33 31 22 17 14	50	-.03 +0.8 19 33
+49 +49 -.04 -.09 0.0 33 32 23 18 15	51	0.0 -.09 -.06 +.01 +.03 13 17 20 25 33
+13 +1.3 -1.1 -1.1 -.03 33 28 23 19 15	52	-.02 -1.5 -1.4 12 16 28
-1.0 -.05 -1.4 -1.7 -.04 33 27 28 20 15	53	-.02 -.13 -.06 17 16 33
-2.6 -2.1 -.04 33 21 16	54	0.0 -.06 -.06 +1.5 +1.6 13 16 19 24 33
+10.1 +.04 -.03 -.00 36 23 19 16	41	-.01 -.07 -.03 +11.2 14 18 23 37
+8.5 +.04 -.04 -.01 36 23 19 16	44	-.02 -1.5 -1.3 +5.2 14 18 23 33
-2.1 -2.5 -.02 33 23 17	43	-.02 -3.5 -3.4 14 24 33
-2.3 -.06 36 17	42	-.02 -.62 -.59 15 18 33

Station		Elev.
478		1039.8
+50	+1.3	38.7
477		37.4
		36.9
+80	+0.8	36.6
		36.1
+50	+1.0	35.2
476		35.1
+50	+0.8	34.3
475		33.5
+50	+0.5	32.5
474		32.0
473		32.0
472+63	+0.1	32.1

+4.9	-1.0	-1.7	-0.1	75	0.0	-0.5	+0.4	+3.6	
33	23	19	15		14	17	23	25	
+5.7	-1.1	-1.3	0.0	87	0.0	-0.4	0.0	+7.8	
34	24	19	13		15	18	22	34	
-1.6	-1.8	-2.1	-2.0	-0.1	100	-0.2	-1.1	-0.3	+1.9
33	29	26	21	14		15	19	28	33
-4.2	-3.3	-0.1		49	0.0	-1.9	-1.9	-1.2	-1.2
33	22	15			15	23	26	28	33
-6.1	-6.4	-0.1		57	-0.2	-6.0	-6.2		
33	29	15			15	26	33		
-0.2	-2.1	-2.8	-0.2	69	0.0	-6.4			
33	28	23	15		15	33			
+4.2	-1.2	-1.8	0.0	76	0.0	-2.8	-2.8		
33	26	21	16		15	21	33		
+5.5	-0.8	-1.1	0.0	82	-0.2	-1.9	-2.0	-2.8	-2.5
33	25	21	16		15	22	26	28	33
-1.5	-1.5	-2.6	-2.6	0.0	91	-0.1	-2.8	-2.9	-3.1
33	31	28	23	15		15	22	28	33
-7.7	-7.4	-0.4		96	-0.2	-4.1	-3.8	-3.0	
33	30	15			15	22	31	33	
-9.0	-0.5			98	-0.1	-3.1	-2.6	-0.7	
33	15				15	22	31	33	
-7.4	0.0			117	-0.1	-7.5	-3.0	+1.7	
33	17				17	22	29	33	

Station		Elev.
484+50	+1.8	1058.0
484		56.2
+50	+2.0	54.6
483		52.6
482		49.5
+50	+1.7	48.3
481		46.6
+50	+1.3	45.0
480		43.7
+40	+0.6	42.5
479		41.9
478+60	-1.0	40.9

H	Z	R
+6.0/35, -0.7/26, -1.4/19, -0.3/15	1.8	0.0/14, -0.2/20, +0.3/28, +1.8/33
+6.2/33, -0.7/24, -0.9/18, 0.0/14	7.6	-0.1/15, +0.6/28, +1.8/33
+0.1/33, 0.0/28, -1.9/24, -1.8/19, -0.4/15	3.7	-0.2/14, -0.3/33
-4.9/33, -0.8/18, -0.4/12	5.7	0.0/15, -0.6/33
-4.4/33, -0.4/19, -0.4/14	8.8	0.0/14, +1.5/33
-3.6/33, -2.0/22, -0.7/15	10.0	+0.2/14, -0.7/18, -0.3/26, +4.9/34
-2.3/33, -1.3/25, -2.4/23, -2.8/21, -0.1/15	11.7	+0.3/14, -1.1/19, 0.0/26, +6.0/33
-9.2/33, -0.2/14	2.1	-0.2/14, -1.4/21, -1.6/26, +0.8/31, +0.8/33
-15.0/40, -0.6/14	3.7	+0.3/15, -4.6/26, -4.5/33
-12.8/33, -0.2/16	4.8	-0.1/15, -5.6/27, -5.8/33
-7.5/33, -0.7/18	5.1	0.0/15, -1.1/23, -1.3/27, -0.4/33
0.0/33, 0.0/32, -1.6/24, -1.6/19, -0.3/14	6.9	0.0/14, -1.1/18, -0.6/25, +4.2/34

Station		Elev.
+50	-1.6	104.84
490		50.0
+53.7		51.6
489		53.2
+50	-0.6	54.1
488		54.7
+50	-0.9	55.2
487		56.1
+50	-0.7	57.0
486		57.7
+50	-0.1	58.6
485		58.7

+7.8	-0.3	-0.3	+0.2	11.0	-0.5	-1.5	-1.5	-0.4	-0.9		
34	24	19	15		14	18	24	29	33		
+7.8	-1.2	-1.2	+0.4	9.4	-0.4	-1.6	-1.7	+0.4	0.0		
33	23	18	14		15	19	24	29	33		
+7.1	-0.6	-1.2	0.0	7.8	-0.6	-2.2	-2.2	0.0	0.0		
34	25	19	15		14	19	24	31	33		
+3.2	-0.8	-1.3	0.0	6.3	-0.3	-1.3					
33	26	20	15		15	33					
+3.0	-1.3	-1.4	-0.1	5.1	-0.5	-6.2	-6.5				
33	28	21	16		16	28	33				
+3.6	-0.9	-1.3	+0.2	4.8	0.0	-6.8	-6.6				
34	25	21	15		16	30	33				
+3.4	-0.6	-1.0	0.0	3.0	-0.2	-2.6	-2.3				
33	27	20	15		15	27	33				
+2.8	-1.0	-1.4	-0.1	2.7	0.0		+0.4				
33	28	21	16		15		33				
+1.0	-1.8	-1.8	-0.2	1.8	-0.1	+0.2	+1.0				
33	26	20	14		16	28	33				
+0.4	-2.6	-1.8	-0.2	0.6	-0.1	+0.5	+2.3				
33	27	20	15		15	26	33				
+1.6	+1.6	-1.4	-1.5	0.0	-0.2	+0.5	+3.8				
33	32	28	19		14	25	33				
+4.7	-1.0	-1.0	-0.1	5.1	+0.2	+0.5	+7.6				
33	27	19	16		15	28	33				

Station		Elev
497+00		1016.7
496		208
+17	-0.9	25.3
495		26.2
+60	-3.7	28.5
494		31.7
+50	+2.4	34.1
493		36.6
+50	-2.5	39.0
492		41.5
+60	+2.0	43.5
491		46.3

A					B	M				
-5.1/33	-5.0/28	-0.1/17			6.1	0.0/15	-4.0/23	-3.9/26	-3.3/28	-4.1/33
-8.0/33	-0.1/16				1.9	-0.5/15	-10.9/34			
-2.6/33	-1.9/28	-2.0/26	-2.0/23	-0.2/17	2.0	-0.4/14	-2.0/20	-2.0/23	-1.1/26	-0.4/33
-0.3/33	-0.5/25	-1.9/21	-1.6/19	0.0/16	1.1	-0.3/15	-1.7/20	-1.7/22	+2.6/29	+3.0/33
+2.9/33	+3.4/29	-2.0/21	-2.0/19	-0.3/14	1.9	-0.3/14	-1.5/18	-1.5/21	+4.9/27	4.9/33
+5.9/33	-1.8/20	-1.8/18	-0.6/15		9.7	-0.3/14	-0.9/18	-0.9/21	+7.6/32	+7.7/33
+8.1/34	-2.7/26	-2.1/22	-0.4/16		7.3	0.0/14	-1.0/18	-1.3/22	+7.3/33	
-[illegible]/34	-3.3/25	-3.3/23	-0.5/15		11.9	-0.3/15	-1.5/20	-1.5/25	+4.7/34	
+2.8/33	-1.6/26	-1.5/21	-0.3/15		8.7	-0.3/15	-2.0/22	-1.6/24	+2.7/33	
+1.8/33	-1.1/26	-1.1/21	-0.1/15		6.2	0.0/15	-0.9/18	-0.9/20	+2.7/33	
+5.4/33	+5.2/32	-2.0/22	-2.0/20	-0.1/14	4.2	-0.1/14	-1.0/18	-1.0/23	+1.8/33	
+9.8/34	-0.6/22	-0.6/18	+0.1/14		13.1	-0.2/14	-1.6/18	-1.6/22	-1.2/25	-0.8/33

Station		Elev	Fin. Dec. 8, 1926
503 +73.7		1002.53	W.H.C.
+10	-0.02	1002.50	A.L.P.
503+00		1002.48	W.R.
			E.T.S.
502+73.7		1002.53	
		.31	
502		02.6	
+40	+0.5	03.1	
501		03.8	
+50	+1.5	04.9	
500		06.4	
+50	-1.6	08.0	
499		09.6	
+50	+1.5	11.1	
498		12.8	
497+50	+1.6	14.4	

A. Σ Rt.

+0.08/50.0	1.87	-0.21/50 -0.91/100.°
-0.2/75 0.0/45	1.85	0.0/46° -0.4/75
-7.0/50 -0.1/27 -0.21/195	1.81	-0.37/195 -0.2/27 -8.2/56 -8.0/70
-9.2/50 -7.7/29 0.0/15 -0.10/100	5.05	-0.02/100 -0.2/15 -8.0/28 -9.7/50
-9.2/33 -9.0/30 -0.1/15	16	-0.6/14 -8.4/28 -10.1/50
-1.8/33 -1.4/31 -3.1/26 -3.3/23 -0.2/16	4	-0.3/15 -3.9/22 -4.0/25 -1.2/30 -1.4/33
+5.6/33 -2.0/24 -2.8/20 -0.2/15	10	-0.5/15 -2.8/22 -2.9/26 0.0/28 -0.4/33
+2.3/33 -1.6/25 -1.0/21 0.0/16	9.0	-0.6/14 -4.5/22 -7.7/33
+4.5/33 -1.0/27 -1.4/20 0.0/16	7.5	-0.4/16 -1.5/19 -1.6/21 -0.4/24 -2.5/33
+3.8/33 -2.4/25 -1.8/20 0.0/15	5.8	-0.6/15 -2.0/19 -1.8/24 -0.1/28 -0.9/33
+0.3/33 -2.2/29 -2.0/21 0.0/15	4.2	-0.5/15 -2.2/22 -3.2/33
-1.2/33 -1.2/32 -3.1/29 -2.9/22 0.0/15	2.1	-0.6/15 -5.4/24 -6.1/33
-1.5/33 -2.9/30 -2.8/20 -0.4/14	1.8	-0.6/14 -2.5/20 -2.9/33
-3.4/33 -2.3/23 0.0/17	1.2	-0.5/16 -1.5/19 -1.7/22 +0.7/25 +1.6/28 +0.8/33

Drainage.

Station	Culv. Kind.	Recmd Culv.
384+38	12" x 38.5 Vit 15' Rt. - 22.5 Lt.	18" P.3
390+51	10" x 35' Vit 15.5 Rt - 20' Lt.	24" P.3.
394+06	12" x 35' C.M. & Vit. 19' Rt - 16' Lt.	18" P.3
397+71	15" x 43' Vit 16.4 Rt. - 15.6 Lt.	24" P.3
409+47	12" x 46.5 Vit. 28' Rt. - 18.5 Lt.	24" P.3
438+69	12" x 45' Vit. 22' Rt. - 23' Lt.	24" P.3
444+27	10" x 53' Vit 26' Rt. - 27' Lt.	18" P.3
457+75	12" x 54' Vit 27' Rt. - 27' Lt.	18" P.3
469+38	10" x 38' Vit 17.5' Rt. - 19.5 Lt.	24" P.3

W.H.C.
D.L.P.
W.R.
E.T.S.

Dec. 9 1926

Inv. Elev. 988.2
Drains Left.

Inv. Elev. 989.3
Drains Left.

Inv. Elev. 988.3
Drains Left.

Inv. Elev. 986.5
Drains Left.

Inv. Elev. 989.1
Drains Left.

Inv. Elev. 1006.2
Drains Right.

Inv. Elev. 1010.2
Drains. Right

Inv. Elev. 1023.6
Drains Left

Inv. Elev. 1028.2
Drains. Left.

Station	Culv. Kind.	Recmd Culv.
473+67	12"x54.5' Vit. 23.5 Rt. – 31' Lt.	24" P.3
479+72	12"x70' Vit 30' Rt. – 40' Lt.	24" P.3
496+30	15"x67' Vit. 34' Rt – 33' Lt.	24" P.3

Dec. 9, 1926

Inv. Elev. 1027.9
Drains, Left.

Inv. Elev. 1035.2
Drains Left.

Inv. Elev. 1010.2
Drains. Right.

Topography.

Station 377 to Station 503+13.7

27-04

383

+78 - ℄ F.E.nt Rt.

382

+57 ℄ F.E.nt Lt.

381

+04 ℄ 12th Ave.

380

+30 Int Road Rt.

379

378

377

Note: Dash line indicates Shoulder of Roadway. Road is Gravel Med thru - out.

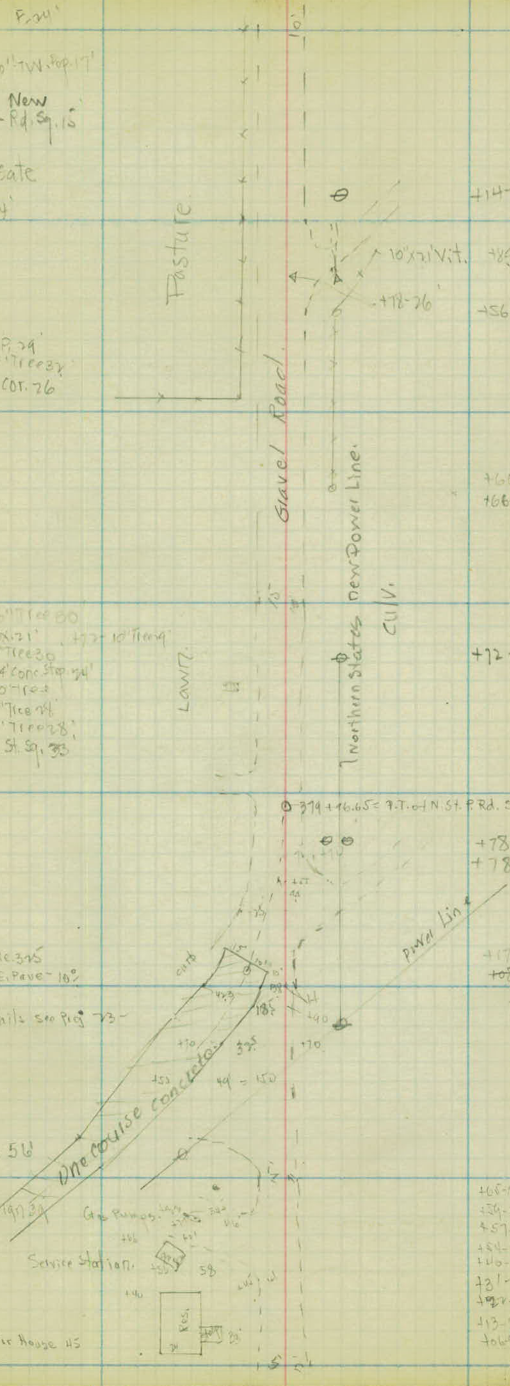
F. 24'
+85 10" Tw. Pop. 17'
New
+52 X-Rd. Sq. 15
+26 Gate
F-24'

+30 T.P. 29'
+20 10" Tree 32
+08 F. Cor. 26

+83 6" Tree 30
+66 M.Bx. 21'
+62 8" Tree 30
+54 ℄ 4' Conc Step 24'
+51 10" Tree
+39 6" Tree 28
+28 6" Tree 28
+25 Ir. St. Sq. 33

+18 E. Pave 32.5
+07.3 E. Pave 10'
For add details see Pg 73

+13 P.P. 56'
+94 Ir. Sign 34
+04 Car House 45



+14 P.P. 78'
+89 F. Cor. 44
+56 T.P. F. Cor. 24'

+66 T.P. 25'
+66 B.F. 25

+72 P.P. 28

+78 P.P. 23
+78 P.P. 33

+17 Ir. Rd Sq 16
~~+08 New Ref. 4~~
+81 P.P. 28"

+65 10" Oak 27
+59 4" Oak 26
+57 T.P. 27'
+54 4" Oak 26
+46 6" Oak 25
+31 6" Ev. Gr. 25
+22 8" Ev. Gr. 24
+13 8" Ev. Gr. 24
+06 ℄ 4' Conc Walk 13'

+51- ℄ Culv. 10'x35' Vit.

+45- R.R. Tel Line Xing.

340

+935 ℄ Pine RR 82' Planking (not full planked

339

+20- ℄ F. Ent Rt.

338

337

+65 ℄F. Ent Rt.

336

335

+38. 12"x 38.5' V.T.

334

+85 - G.P. - 21'

+89 - F. Cor. 34

+86 - P.P. 28'

+29 - B.F. 30'

+15 - E.F. 42'

390

+58 - Wood X-sign 20'

+61 - T.P. 31

+37 - G.P. 31'

+38 - P.P. 28'

389

+96 - F. Cor. 39'

+99 - F. Cor. 37'

+45 - T.P. 34'

+29 - 14" Maple 34

F-26'

388

+15 - R.R. X-sign 14'

F-22'

+01 - T.P. 21'

387

+73 - 24" Maple 34

+53 - E. Tree 34'

+24 - P.P. 28'

+11 - R.R. X'ing Sq. 13'
New.

386

+58 - T.P. - 23'

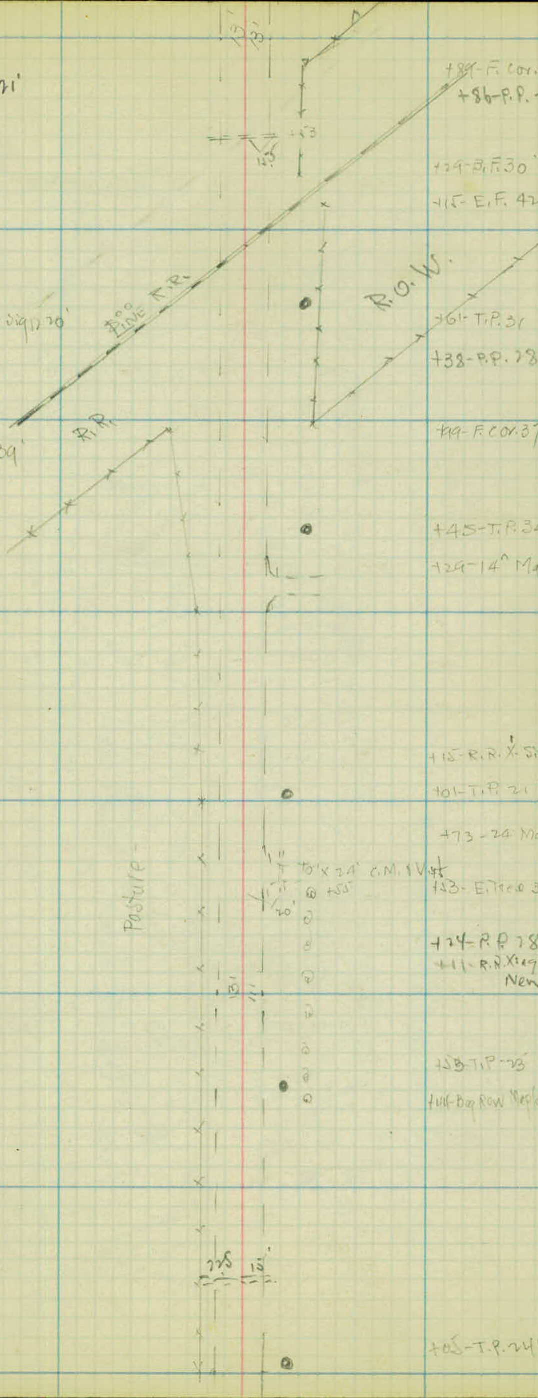
+64 - Big Row Maples 35'

F-23'

385

+05 - T.P. 24'

384



+71 culv. - 14"x 43' V.P.

397

+394 ℄ Co. Road "C"

396

395

+06- ℄culv 12" x 35' C.M + V.F

394

+09- ℄ Street ℄.

393

392

391

Ditch

16,4 +86

Low Land

Ditch

+56 156

Ditch

+94 - 6" Bx.El. 16'
+72 - 6" Maple 16'
+54 - P.P. 28'
+48 - 6" Oak 18'
+27 - 4" Maple 20

+01 - 6" Oak 17'

397

+84 Tr. Rd. Sq. 17'
+76 - P.P. 26'
+66 - Tr. Rd. Sq. 20
+61 - Fire Hyd 33'
+57 - 12" Oak 24'

+91 - P.P. 18'
+98 - New R.R. Sq. 16'
+72 - 12" Maple 35'

To Lake DeMontreville.

+12 - P.P. 39'
+12 - P.P. 28'

396

+71 - T.P. 19'

Yard.

+25 - 14" Oak 18'

+33 - 8" Oak 32'

395

+23 - P.P. 20

34

394

+92 - 8" Tw. Oak 32
+84 - 10" Oak 31'
+71 - 6" Oak 29'

+70 - New R.R. Sig. Sq. 14

Platted Land.

+48 - P.P. 28'
+41 - 8" Oak 28'
+12 - X-Road Sq. 14'

393

+92 - T.P. 20'

Yard.

+34 - 8" Oak 28'
+26 - 10" Oak 30'
+03 - 8" Tw. Oak 29

+09 - 14" Oak 30

392

~~+97 - R.R. Sig. 14~~

+90 - 16" Oak 30

+69 - 10" Oak 30'

+24 - 12" Oak 31'

+21 - T.P. 20'

391

404

+69 - ℄ 19th Ave N.E.

403

+30 ℄ F. Ent Rt.

402

401

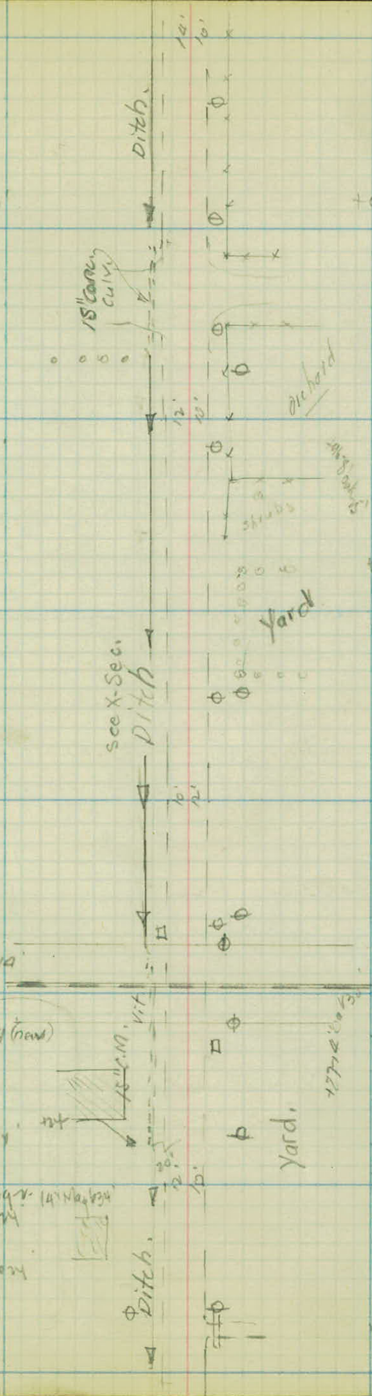
+049 ℄ Elec. R.R. (no Planks)
(Paved Tarvia)

400

399

+75 - ℄ F. Ent Rt.

398



+68 - P.P. 12'

+06 - 8" Maple 33'
+06 - P.P. - 11'

404

+93 - E. Culv. 22'
+93 - Ir. Sign 29'
+43 - B. Culv. 21'
+36 - Row Maple 33

+87 - F. Cor. 18'
+53 - 14" Oak 31'
+53 - F. Cor. 21
+50 - P.P. 17'
+28 - P.P. 28'

403

+87 - R.R. Xing 12' (new)

+87 - P.P. 12'
+74 - 8" Oak 22'
+69 - F. Cor. 22'
+69 - 10" Oak 22
+40 - B.F. 19'
+21 Cor. Hedge 23
+16 - 8" Oak 28'
+01 - 10" Oak 22'

402

+83 - 8" Oak 29'
+76 - 10" Oak 22'
+69 - Cor. Hedge 24
+59 - P.P. 28'
+57 - P.P. 13

401

+63 - Maple 24'
+47 - 6" Oak 24'
+40 - E.P. 24'
+31 - 10" Maple 25'
+13 - E. Culv
+19 - Xing Signal 14'

+55 - 12" Oak 30'
+42 - P.P. 28'
+37 - P.P. 15
+25 - R.R. Xing 20'

400

+77 - R.R. Xing 14' (new)
+61 - Cor. Ho.
+37 - Ho. 33'
+23 - E.P. 22'
+16 - (3) - 10" Maple 24

+84 R.R. Xing 24'
+77 - P.P. 15
+23 - Xing Signal 12'
+44 - 8" TW. 29'
+3 - 6" Oak 28
+27 - P.P. 28
+22 - 6" Oak
+15 - 8" TW. 31
+12 6" Oak 31
+10 - 4" TW. 31

399

+88 - Cor. Ho.
+91 - 14" Maple 34
+83 - 12" Maple 24
+67 - Cor. Ho. 23'
+80 - 8" Maple 24
+33 - P.P. 28'

+82 - 10" TW. Oak 31'
+13 - 12" Oak 31'
+35 - P.P. 16'
12" x 16' C.M.
+17 - E. Culv. 23

398

+71 ℄ Drive Lt.

+30 - ℄ F. Ent Rt.

+05 ℄ F. Ent Lt.

411

410

+47 - 12" x 48.5 Vit & C.M.

+16 - ℄ F. Ent Lt.

409

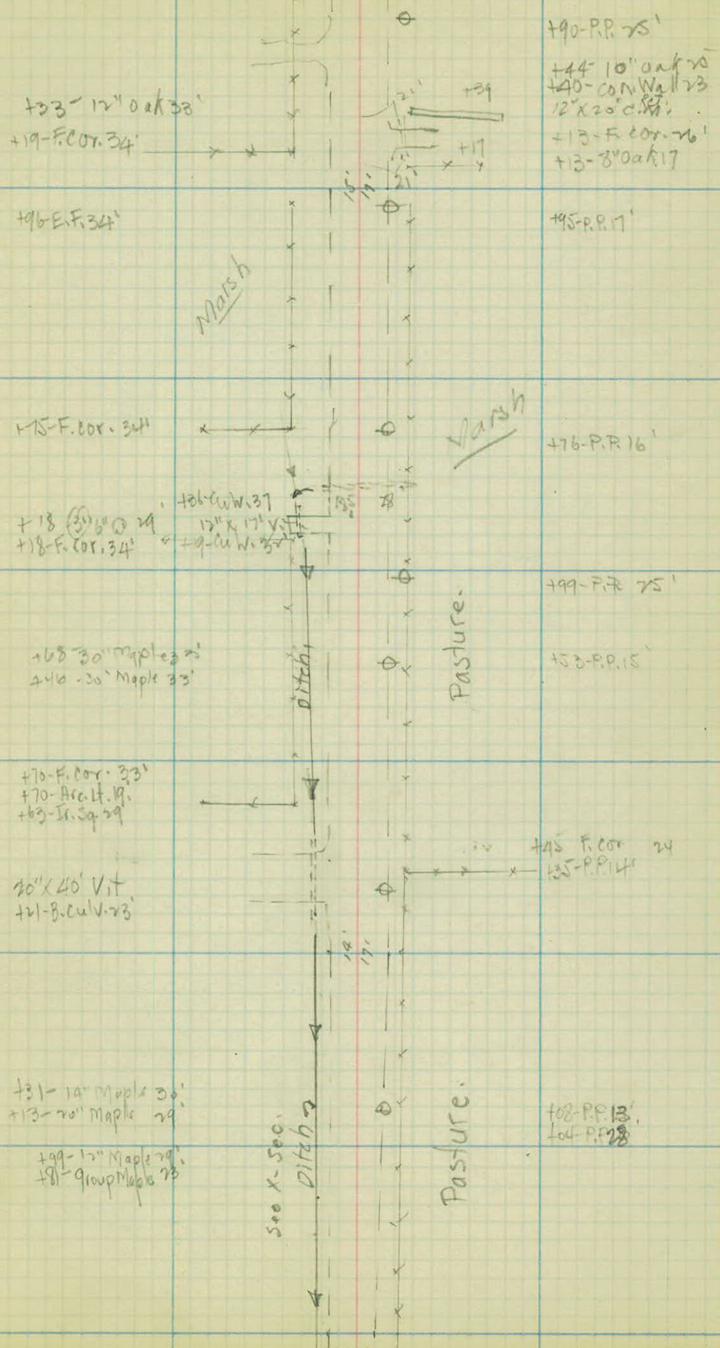
408

+44 ℄ 20th Ave N.E. Lt.

407

406

405


+33 - 12" oak 33'
+19-F. Cor. 34'
+96-E.F. 34'
Marsh
+15-F. cor. 34'
+18 (3") 6" ⊙ 29'
+18-F. Cor. 34'
+36-Cu.W. 37
12" x 17' Vit.
+9-Cu.W. 35
+68 30" Maple 25'
+46 - 30" Maple 33'
+70-F. cor. 33'
+70-Arc. Lt. 19'
+63-Tr. Sq. 29
20" x 40' Vit
+21-B. Culv. 23'
+31 - 14" Maple 30'
+13 - 20" Maple 29'
+99 - 12" Maple 29'
+81 - group Maple 23
See X-Sec.
Ditch
Ditch
+39
+17
21'
15'
19'
13.5
28
12'
17'
Marsh
Pasture.
Pasture.
+90-P.P. 25'
+44 10" oak 25'
+40-con. Wall 23
12" x 20' C.M. Set
+13-F. cor. 26'
+13-8" oak 17
+95-P.P. 17'
+76-P.P. 16'
+99-P.P. 25'
+53-P.P. 15'
+45 F. cor 24
+35-P.P. 14'
+08-P.P. 13'
+04-P.P. 28

418

417

187 & F. Ent Rt

145 Drive Lt.

416

103 & Drive Lt.

415

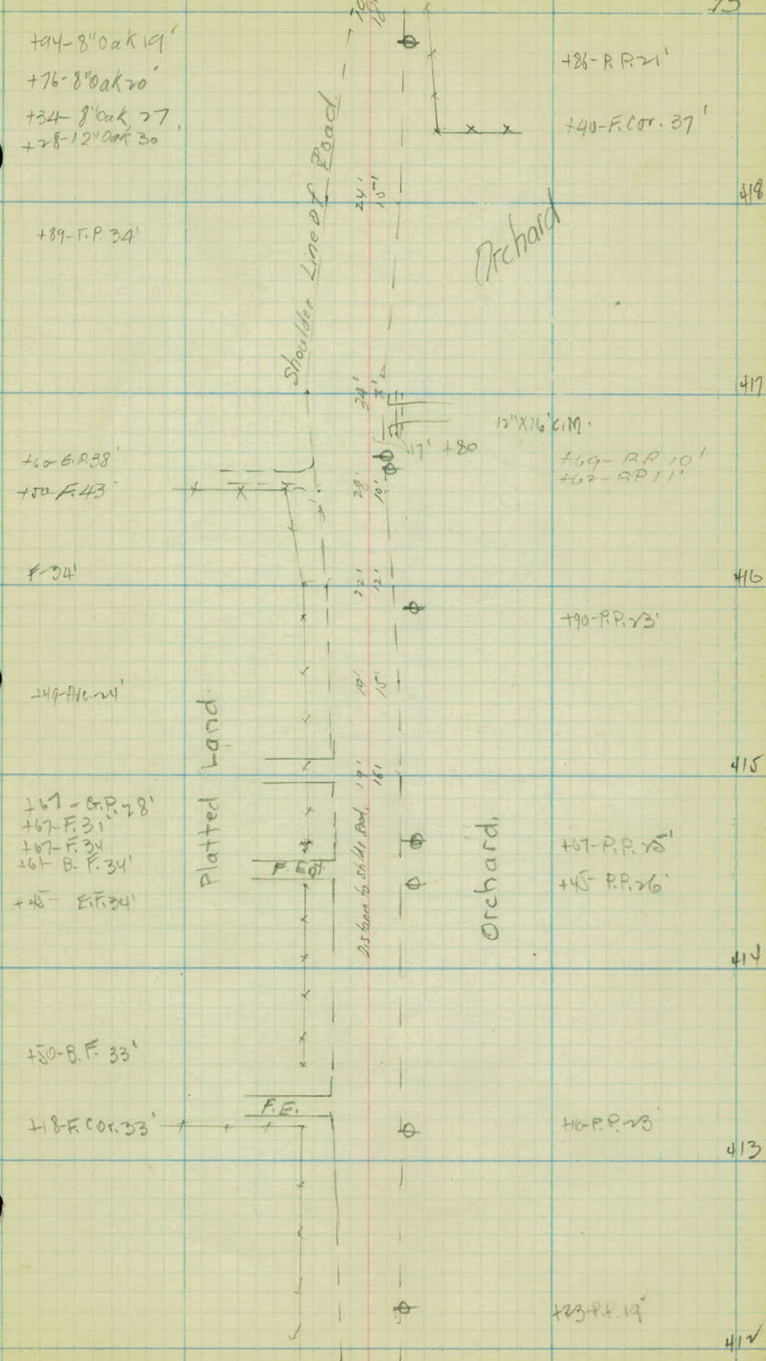
153 L F. Ent Lt.

414

130 L Drive Lt.

413

412


+94-8" Oak 19'
+76-8" Oak 20'
+34-8" Oak 27
+28-12" Oak 30
+86-P.P. 21'
+40-F. Cor. 37'
418
+89-T.P. 34'
Shoulder Line of Road
Orchard
417
12"X16' C.M.
17' +80
+60-G.P. 38'
+52-F. 43'
+69-P.P. 10'
+62-P.P. 11'
F-34'
416
+90-P.P. 23'
+49-Ph. 24'
Platted Land
415
+67-Gr.P. 28'
+67-F. 31'
+67-F. 34
+61-B.F. 34'
+45-E.F. 34'
F. Cor.
25 fence to Sh'ld Road
Orchard
+67-P.P. 25'
+45-P.P. 26'
414
+50-B.F. 33'
F.E.
+18-F. Cor. 33'
+16-P.P. 23
413
+23-P.P. 19'
412

4/25

4/24

+49 ℄ F. ENT RT.

4/23

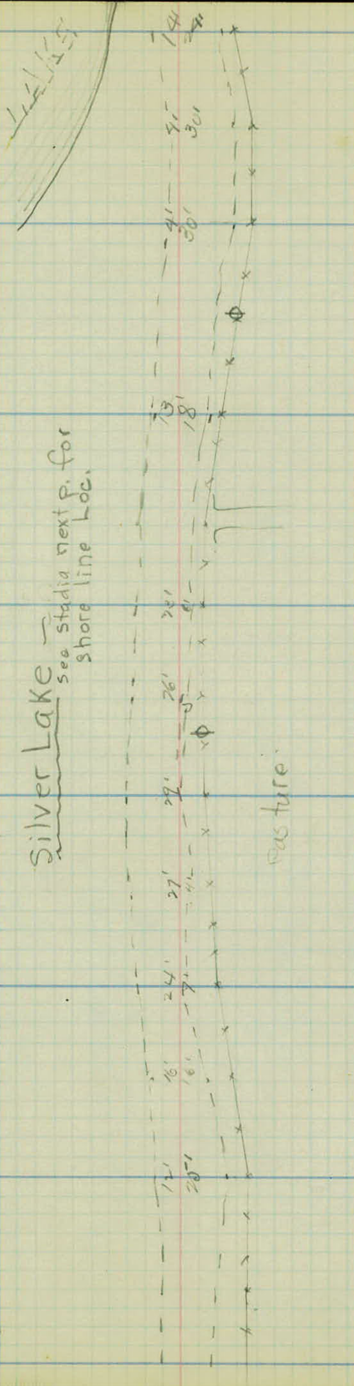
4/22

4/21

4/20

4/19

+78-10" Oak 18'
+11-12" Oak 26'
+06-12" Oak 9
+92-12" Oak 17'
+57-8" TW. Oak 25'
+01-8" Oak 29'
+86-8" Oak 34'
+80 8" Oak 34
+73 8" Oak 33
+80-6" Oak 36
+71-8" Oak 35
+88-8" TW Wil 28'
+76-(3)-24" Cot 28'
+32-30" Cot 19'
+63-18" Oak 13
+57-24" Oak 13
+02-8" TW. Birch 17'



F-31'
+54 F-38
F-38'
+52-P.P.-20'
+50-F. 32'
F-25'
+40-F-17'
F-13'
+50-F-13
+34-P.P. 11'
F-15'
+50-F-16
F-21'
+54-P.P. 20'
+55-Lake Sign 15'
+50-F. 29'
F-37'

4+32

4+31

Az + stadia to locate shore of Silver Lake

(△ = P.C. 426+21)

4+30

	Azimuth	Dist stadia
Beg. Fence	259°-00'	100'
Lake Shore	250°-00'	106'
" "	214°-00	100'
4+29 " "	195°-00'	170'
" "	182°-00	240'
" "	175°-00	360'
" "	177°-00	460'
4+28 " "	181°-00'	620'
" "	185°-00	700'
" "	192°-00'	800'

4+27

4+26

F- 33'

+70-T.P. 28'

+43-T.P. 29'

+11-T.P. 28'
F- 34'

+18-T.P. 28'
F- 35

+54 20" Will 23'

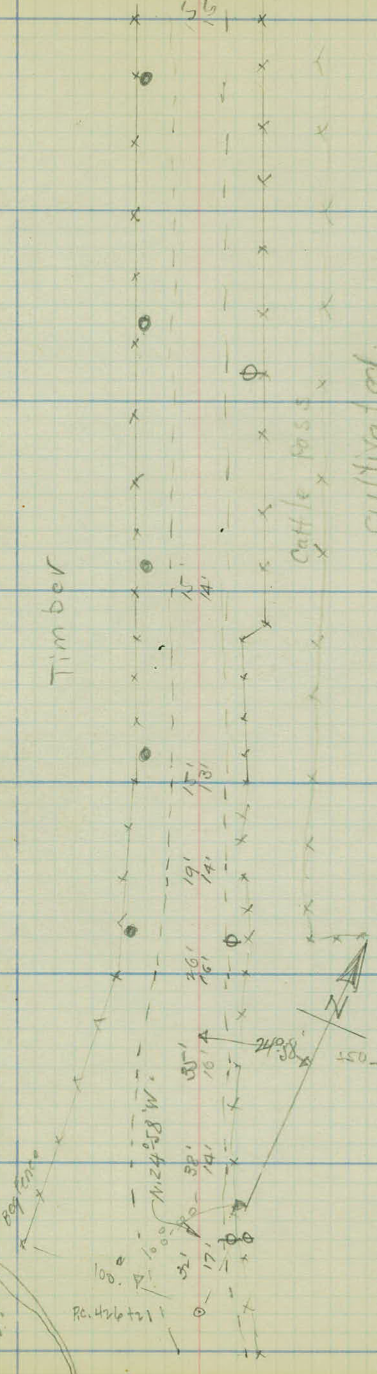
+22-G.P. 28'

+28-T.P. 28'

F-46'

+42-G.P. 30'

+76 Lake Sight 21'



F-34'

+13-P.P. 28'
F-34'

+83 Δ F 34'

+67-Δ F 27'

F-25'

+50-F-23'

+20-F cor 60'

+18-P.P. 18'

F-24'

+50 F-21'

F-20'

+59-P.P. 16'

+51-P.P. 24

+50-F 25'

439

+09 12"x45' V.P.

438

437

436

435

+81 - ℄ F. Ent Rt
+73 - Road Lt

434

433

F-32'

+10 T.P. 28'

+81 - T.P. 28'

+84 - T.P. 28'

+73 - T.P. 28'

+99 - F. COR. 32'
+86 - 10" Oak 22'

+58 - 10" Oak 16'
+55 - 8" Oak 18'

+41 - F. cor. 34'

+96 - T.P. 28'

Pasture.

Timber.

cattle pass

cultivated.

+89 - F. COR. 34'

+89 - B.F. 32'
+74 - E.F. 33'
+59 - T.P. 32'

446

+17- High Ten. Power Xing.
445

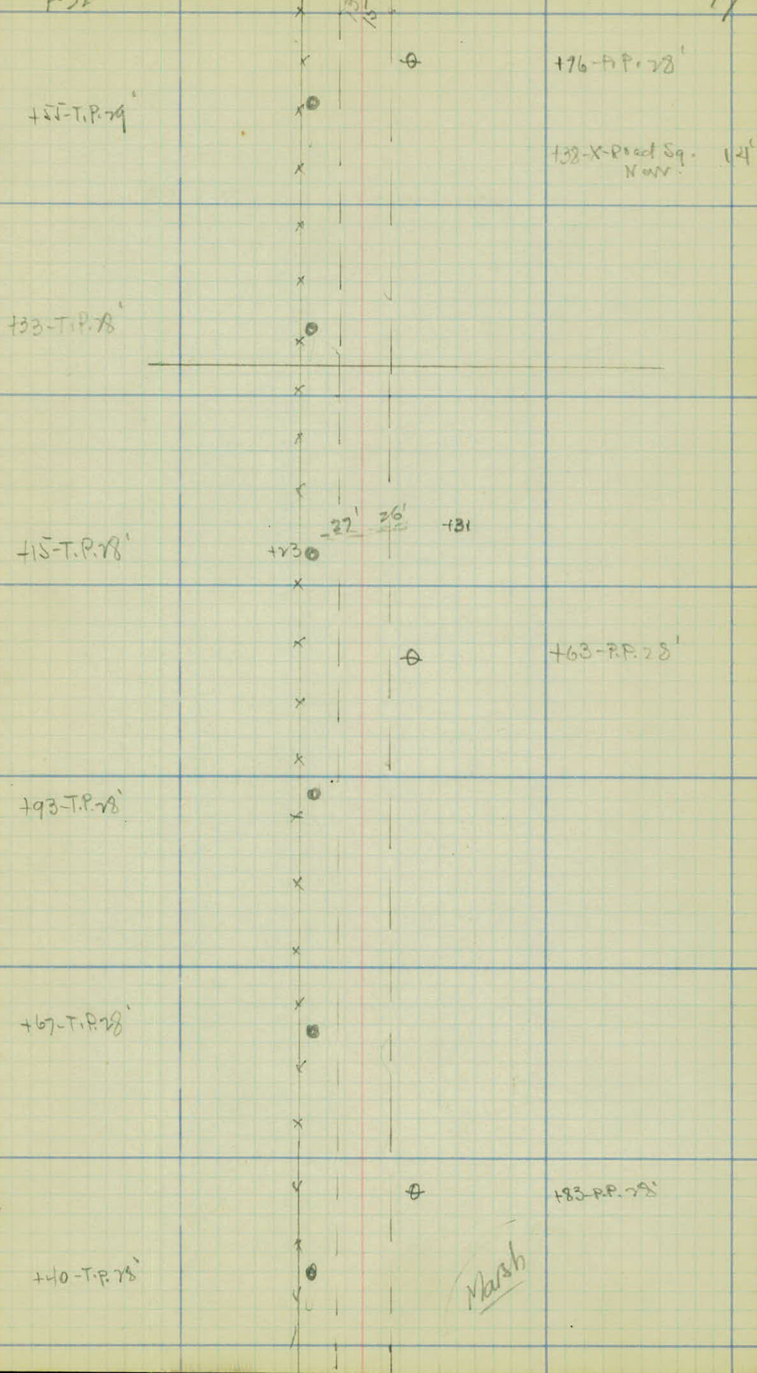
+27 10" x 53' V.P.
444

443

442

441

440



+76-P.P. 28'
+55-T.P. 29'
+38-X-Road Sq. N.W. 14'
+33-T.P. 28'
22' 26' +31
+23
+15-T.P. 28'
+63-P.P. 28'
+93-T.P. 28'
+67-T.P. 28'
+83-P.P. 28'
+40-T.P. 28'
Marsh

453

452

+80- ℄ F. ENTRY

451

+96.8 ℄ CO. Road "D"

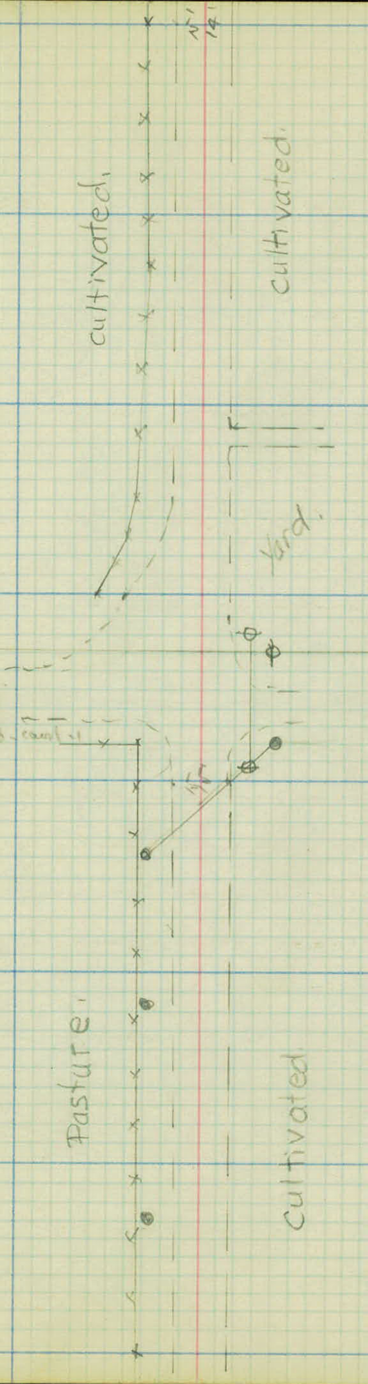
450

449

448

447

F-29'



453

+75-A F. 28'

452

F-33'

+54-F. 34'

+68-8" Oak 30'

+40-6" Oak 30'

F-55'

451

+81-T.P. 28'

+70-P.P. King 28'

+23-Tel. Pd. Sq. 28
+21-R. cor. 30'
- 21-Tel. Pd. sq. 28 - cont.
+08-G.P. 24'

+26-T.P. 4'
+02-P.P. 28'

450

+63-T.P. 28'

F-32'

449

+85-T.P. 29'

+71-T.P. 28'

460

459

458

+75 12"x54' V.P.

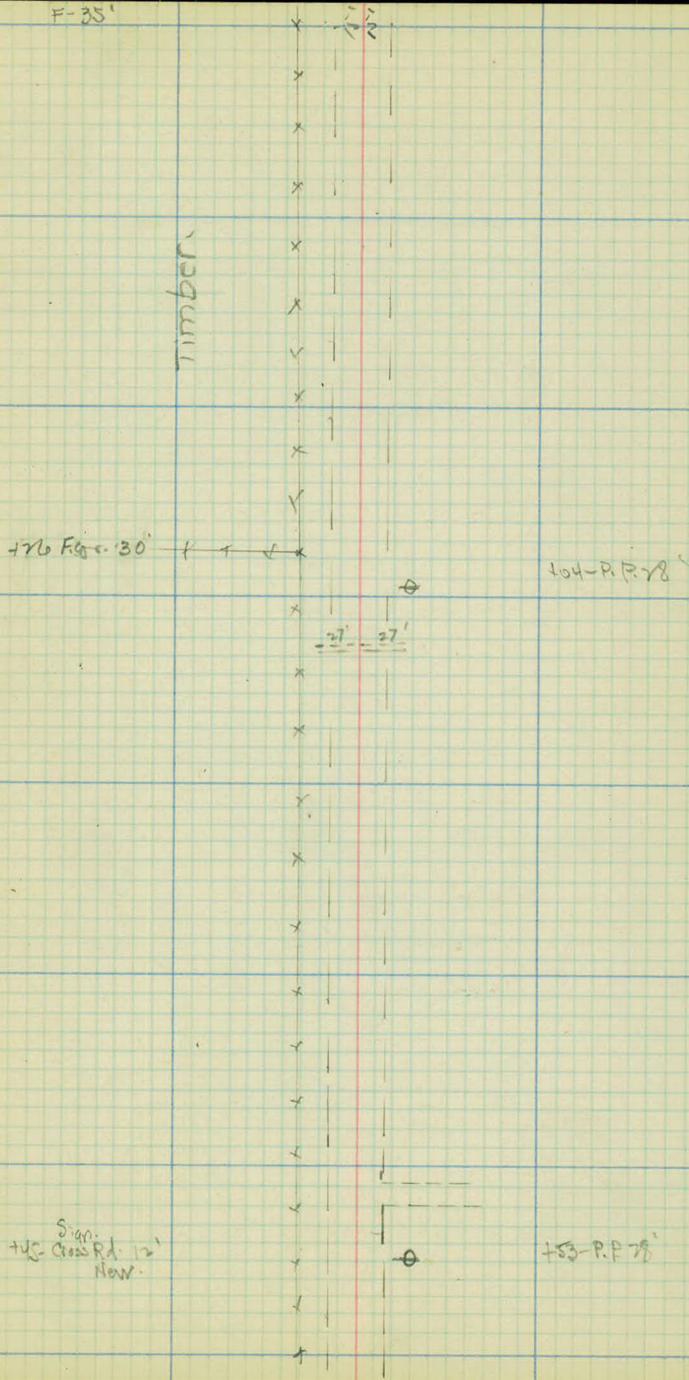
457

456

455

+85~ F.Ent Rd.

454


F-35'
Timber
+76 Fdg. 30'
+04-P.P. 78'
27'
27'
Sign
+45- Cross Rd. 12'
New.
+53-P.P. 78'

467

466

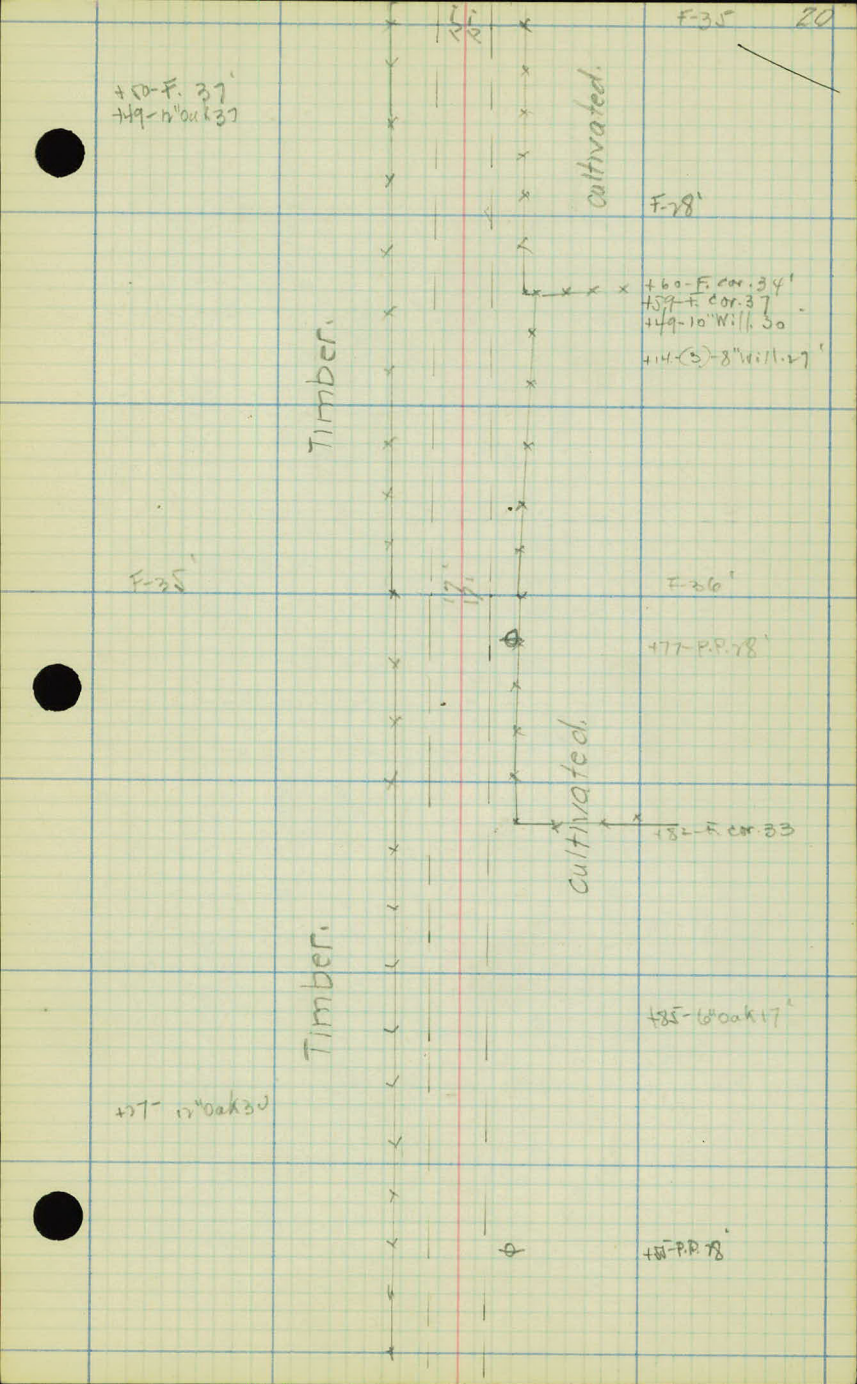
465

464

463

462

461


F-35'
+50-F. 37'
+49-11"oak 37
Cultivated.
F-28'
+60-F. cor. 34'
+59-F. cor. 37
+49-10"Will. 30
+14-(3)-8"Will. 27'
Timber.
F-35'
F-36'
+77-P.P. 78'
+82-F. cor. 33
Cultivated.
Timber.
+85-6"oak 47'
+37-12"oak 30'
+84-P.P. 78'

474

+67 12"x 545' V.P.

473

472

+07 ± FENTRY

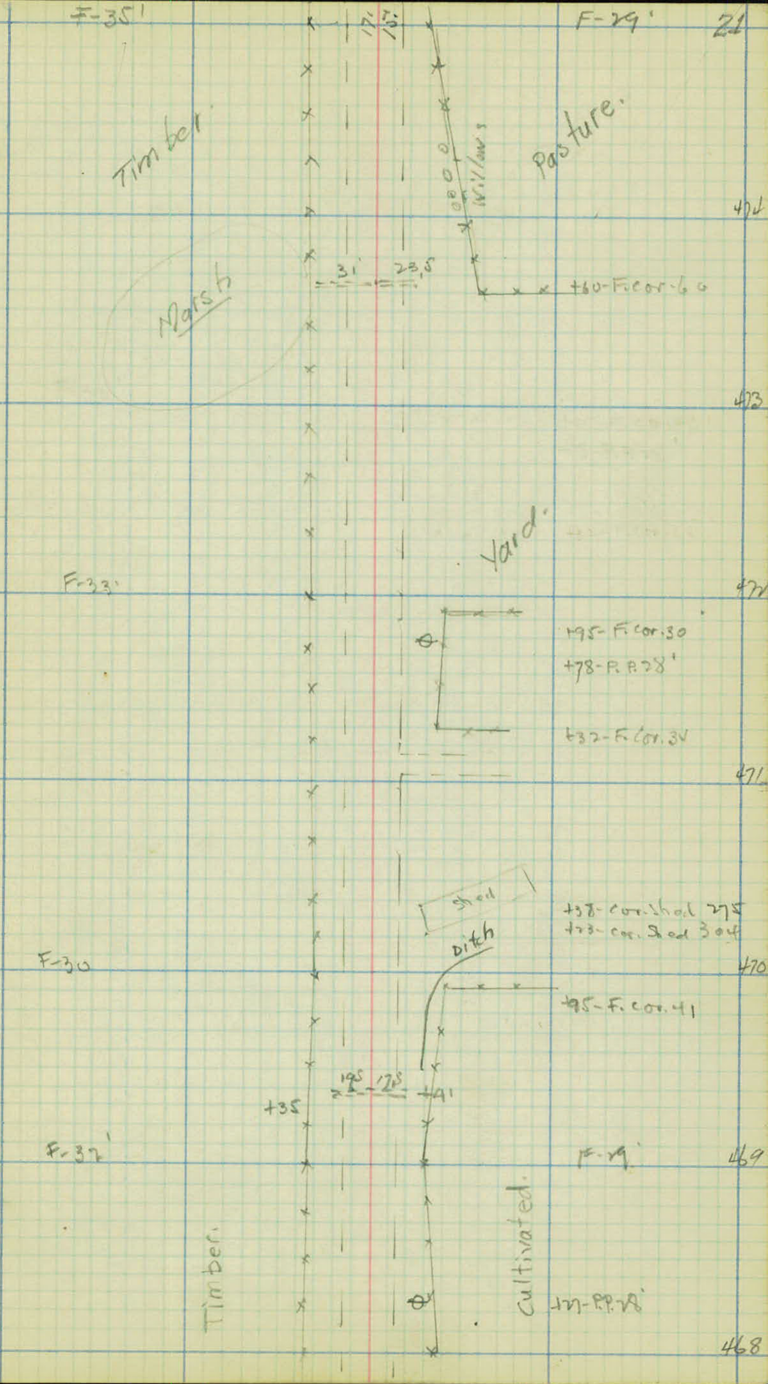
471

470

+38 10"x38 V.P.

469

468


F-35'
F-29'
Timber
Pasture
Willows
474
31'
23.5
+80-F.cor.60
Marsh
473
Yard
F-33'
472
+95-F.cor.30
+78-P.P.28'
+32-F.cor.30
471
Shed
+38-cor.Shed 275
+73-cor.Shed 304
Ditch
F-30
470
+95-F.cor.41
19.5
17.5
+41'
+35
F-32'
F-29'
469
Timber
Cultivated
+27-P.P.28'
468

+80 - ℄ F. Ent LH

+70 - ℄ F. Ent RH

481

480

+72 12"x70' V.P.

479

478

477

+84.7 Mont. (below grade 1 Ft.)

476

475

+80 - P.P. 28'
+79 Cor. F. 33'
+79 - Cor. Conc. Blk Cr. 2'x2' 32'

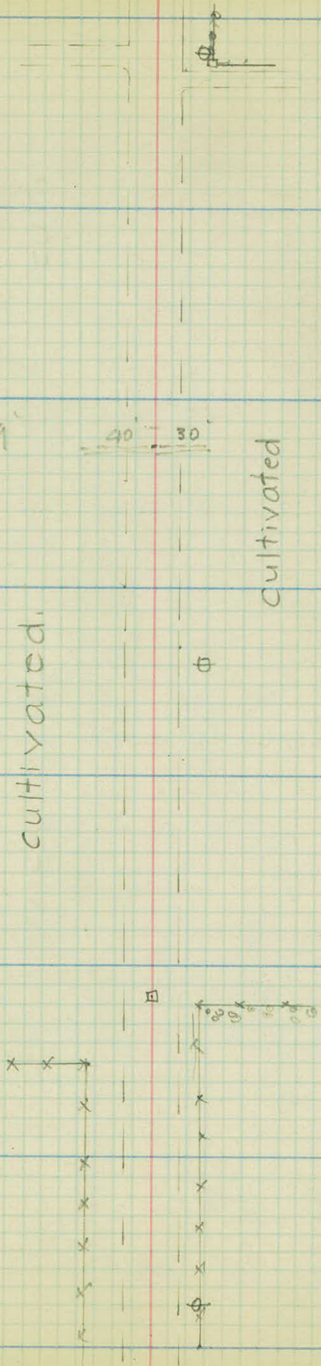
+60 - 8" Oak 30'
+45 - 10" Oak 32'
+41 - 10" Oak 27'
+19 - 24" Pop 29'
+04 - 4" ? 28'

48

+92 - 10" Pop 29'
+76 - 6" Oak 33'
+62 - 24" Pop 29'
+53 - 6" Tree 29'
+34 - 10" Tree 29'
+11 - 30" Pop 29'

481

+93 - 12" Will 29'
+73 - 12" Tw. Will 29
+53 - 8" Will. 30'



+90 - 24" Pop. 26'

+62 - P.P. 28'

478

477

+82 F Cor. 27
Row small Oaks

+48 F. Cor. 33

476

+20 - P.P. 28'

475

488

487

+58- Int of Road to Cemetary

486

485

484

483

+40 - & Drive to Cemetary

482

Cultivated.
16'
15'
+89- F. Cor. 32'
+12- RR 28'
+00- F. Cor. 33 - 2 Post
+00- F. Cor. 46
+86- F. Cor. 58'
+76- F. 46'
+42- 2 Cone Post 32'
Gate.
+58'
F- 32'
+75- P.P. 28'
Cemetery.
cultivated.
+62- F. 33'
+61- Cor. Cone B/R. 32'
+48- 47'
+38- 47'
+12- Cor. Cone B/R Post.
F- 33
32'

495

494

493

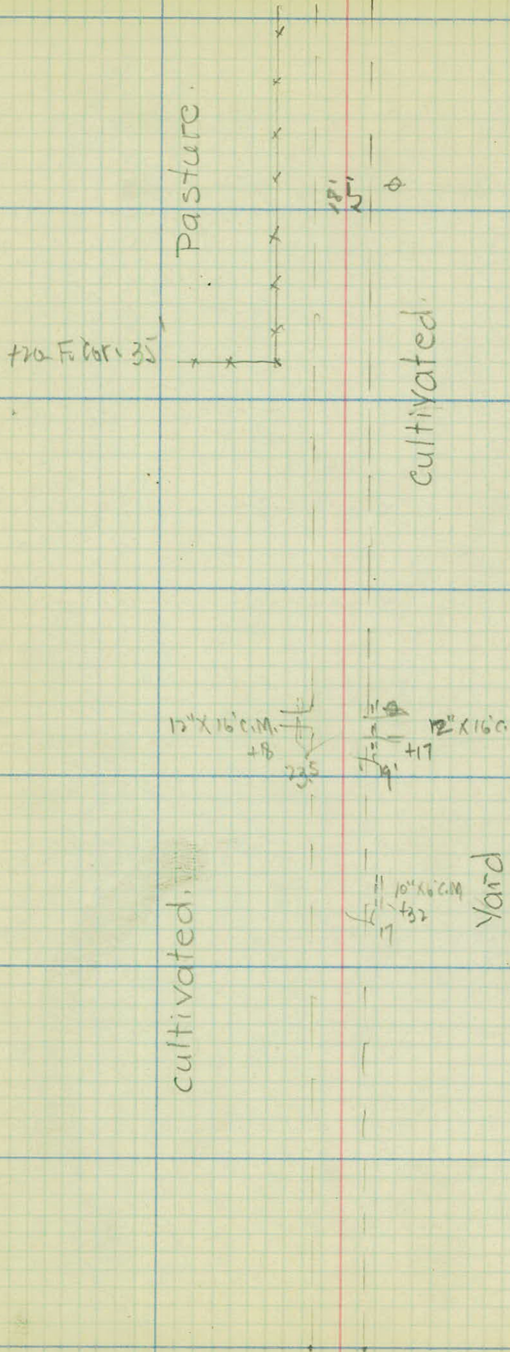
+ 75 ¢ F. Ent RY. & Lt.

492

491

490

489



+13 - P.P. 28'

495

494

493

+36 - P.P. 28

+08 - 10" oak 25

492

+75 6" oak 24
+70 - 10" oak 28
+59 - 10" oak 24
+43 - 12" Twin oak 23
+32 - 6" oak 21'
+25 - 8" oak 24'
+26 - 6" oak 21'
+09 - 6" oak 24

491

+95 - 10" oak 30
+94 - 8" oak 28
+49 - 8" oak 26'

490

489

+737 - Beg Pave: 50 wide
46 Radius Lt. & Rt.

cont'd next page

502

501

500

+75 C.F. Ent Rt.

499

498

497

+30 15" x 67' V.P.

496

G.R. 27

+92-B.11 Board 38

+75-ΔG.R.13.5

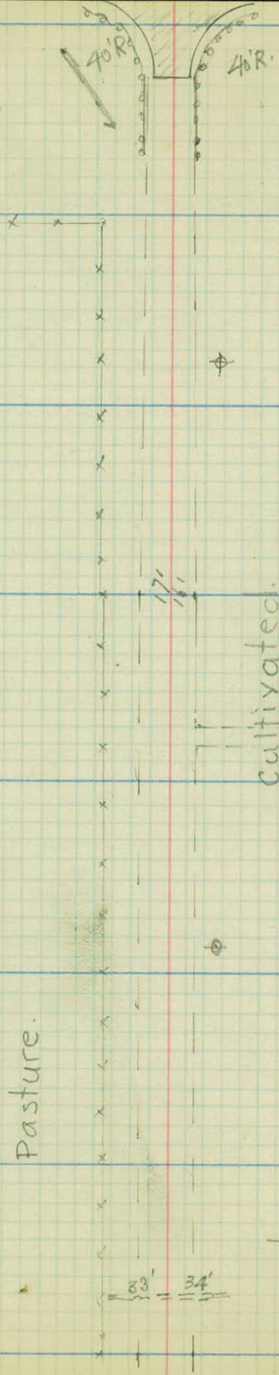
+48-B.11.Board. 31'

+43-Δ G.R. 13.8
+34-B.G.R. 14.7

+98 F. Cor. 36'

F-35'

F-33'



G.R. 25 — 25

+80-Δ G.R. 13.4

+40-Δ G.R. 13.4
+32-B. G.R. 14.7

502

+27-P.P. 78'

501

+66- 10" Oak 26'
+42-12" Oak 25'
+34-14" Oak 25'
+03-12" Oak. 23'

500

499

+98 Cross Road sign 15' New

+15-P.P -28

498

497

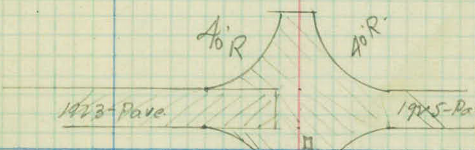
+60-Land Line

496

504

+73.7 ℄ Co. Rd. E. Pave.

503



405.6 = ℄ Signal
1.9 - Rt to ℄

Base of Signal
2.65 x 4'

Alignment
E. County Line Road.
Connection to Co. Rd. E.

Proj. 27-04

1-7-27

Wilshusen
Kooglun
Berthiaume
Messenburg

Received 1-8-27
C. P. Van Kuelen

Station	Point	ang. Lt.	ang. Rt.	Bear.
504+85.77	P.T.		45°05'	
+50			41°30'	
504+00			36°30'	
+50			31°30'	
503+23.70	P.I.		90°10'	
503+00			26°30'	
+50			21°30'	
502+00			16°30'	
+50			11°30'	
501+00			6°30'	
+50			1°30'	
500+34.94	P.C.		0°-00'	
489+23.1	P.O.T			

N 0°-59' E

P.I. = 503+23.7

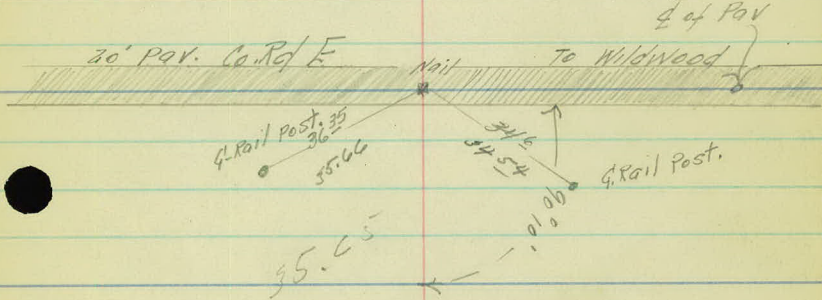
Δ = 90°10' = Rt.

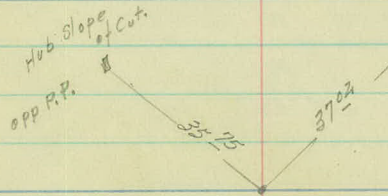
D = 20° Curve

Tan = 288.76

L.C. = 450.83

Rad. = 287.94





East County Line Road
Connection to Co. Rd. E
& Levels

1-7-27

Wilkinson
Keoghan
Berthiaume
Messenburg

Station	+	H.I.	−	Elev.
B.M.	4.61	1006.30		1001.69
500+34.94			0.90	05.30
+50			1.4	04.80
501+00			2.6	03.60
+34			3.2	03.00
+50			8.0	98.20
+60			9.2	97.00
502+00			13.2	93.00
+50			13.7	92.50
+78			13.5	92.70
503+00			11.0	95.20
+44			6.5	99.70
+50			8.8	97.40

R.R. Spike in 8" OAK 40' Rt. Sta. 500+70

Station	+	H.I.	−	Elev.
		1006.20		
+66			11.0	94.90
+94			6.7	97.50
504+00			6.8	97.40
+12			Edge Pav. 7.2	98.90
+50			Pav. 8.52	97.68
504+85.77	P.T.		Pav. 9.62	96.58
B. M.			4.61	

R.R. Spike in 8" oak 40' Rt. Sta. 500+70

Cold=

1-7-27

Wilkinson
O.S.
A.B.
H.M.

Cross Sections
E. Co. line and C. R & E
Connection
Stg. 500+34+64 to 504+85.77

Station	+	H.I.	−	Elev.	
B.M.	4.61	1006.20		1001.59	
500+34.94					05.3
+50					04.8
501+00					03.6
+37					03.0
+50					98.2
502+00					93.0
+50					92.5
+98					92.9
503+00					95.2
+34					99.7
+50					97.4

Lt. Lt 1-7-27 Rt.

R.R. Spike in 8" Oak 40' Rt. 879. Foot 70

+03 27 2.7 0.70 1.4 4.6 6.6 7.4
33 27 2.2 16 890 15 23 30 33

+03 +03 2.2 2.7 1.2 1.7 8.0
33 32 27 22 15 1.4 15 33

5.0 5.0 2.6 2.6 4.7 8.3 3.0 5.3
33 31 24 8 14 18 21 33

3.7 3.0 5.5 5.4 2.6 3.3
33 20 3.7 5 8 13 33

3.5 3.3 3.7 8.0 4.6 4.2
30 28 10 80 10 9 33

6.0 13.5 11.8 7.0
33 21 13.2 11 33

14.5 13.3 12.2 11.5
33 17 13.7 21 33

14.0 13.7 13.0 12.4
33 19 13.5 18 33

13.7 11.4 11.7 11.5
33 9 11.0 22 33

4.8 6.1 7.0 5.5 7.2
33 28 10 6.5 17 33

Prv. S.Prv.
5.5 5.4 5.3 14.5 4.8 5.5 6.3
33 26 10 7 8.8 3 25 33

Station	+	H.I.	−	Elev.
		1006.20 ✓		
+66				95.72
+94				99.5
504+00				99.4
+12				98.9
+50				97.68
504+85.77	P.T.			96.58
505+00				
+50				
506+00				
B.M.			4.61	1001.59 ✓

Lt. Ct. Rt. 1-7-27

Pav. E Pav
8.85 5.9 5.8 10.8 7.7 5.8 6.0
33 18 13 7 11.0 12 27 33

E. Pav E. Pav
6.3 6.55 6.65 6.75 7.4 7.2 7.2 7.0
33 28 15 5 6.7 12 20 27 33

E. Pav. E. Pav.
6.3 6.76 7.0 6.8 11.5 11.2 7.5 7.2
33 37 3 5 27 27 33

E. Pav Pav.
6.6 6.85 11.4 11.0 8.2 8.2
33 25 13 19 27 30 33

E. Pav E. Pav
14.5 8.3 8.42 Pav. 8.48 8.3 11.0 10.8 10.5
33 19 13 8.62 8 13 22 25 27 30
33

Pav. Pav.
15.0 14.5 9.7 9.62 Pav. 9.55 11.5 11.5 11.0 9.0 9.2
33 27 15 10 9.62 10 14 21 23 28 32

Pav.
10.08

Pav.
11.38

Pav.
12.42

R. R. Spike 10. 8" Oak 40' Rt. Sta. 500+70

1-7-27

E. County Line Road
Connection to Co. Road E

Topography
Stg. 500+34.94 to 504+85.97

1-7-27

Wilshusen
Skoglund
Berthiaume
Massenburg

505+00

504+00

503+00

502+00

501+00

500+00

+85.77 Pav-10'

+80 Pav. 12.9

Edge Pav. 2 1/3 Edge Pav. 3'

+50 edge Pav 26'
+52 G Rail-22'
+46 G. Rail 16'
+40 G drive
+34 G Rail 23
+33 G Rail 31
G. Rail 6.4

+12 Int Pav.

Cultivated

+85.77 - Pav-10'

+30 Pav - 7.5
+49 - E.C.R - 12'

+99 I.N. G Rail

Shoulder
Rd -28'

54
Rd. 42'

54
+50 Rd. 10'

+34 Rd 37'

Rd 24'

+35 - Rd. 16'

E. Co. Line

Cultivated

+34 R.R 13
INT
+34 St. Line

Rd. 8'

+70 Tree 24"

+42 Tree 24"
+35 - Rd - 15'
+35 - 24"

Proj. #27-04

X Sections extended on the Left at Int. E. Co. Line & Co. Rd. E.

Received 3-5-27

Sta.	3-4-27 R.M. E.E. E.M?	Lt.				
501+90		+7.7/43	+7.9/28	+0.1/13	+0.4/10	9.3
502+00		+9.3/48	+8.9/34	+0.1/20	0.0/11	11.0
502+50	+10.1/100 +10.0/79 +2.2/66	+1.4/62	+0.1/50	-0.4/48	-0.4/25	11.8
502+65.78	+10.2/133	9.8/83	+1.1/66	-0.7/30	-0.3/30	11.8
503+00	+7.1/77 +6.9/57	-0.1/31	-1.8/36	-1.8/24	-0.8/16	9.2
503+35		+1.4/42	+1.3/30	-2.3/23	-0.5/11	4.4

~ PROJECT 27-04 ~

— EAST COUNTY LINE —

PLANS IN HAND INSPECTION — 2-28-27

O.E. Van Krevelen
W.S. Mackintosh
C.W. Soakup.

✓ ✓ 379+50 - Road Rt - No culv. req.

✓ ✓ 12th Ave. on Lt - " " "

✓ ✓ 380+70 - F.E. - Rt - P. 15"x24' C.M.

✓ ✓ 380+70 (59) - Walk on Lt - Rep. 12"x10' C.M. from 394+06

✓ ✓ 380+70 (59) - Remove steps on Lt

✓ ✓ 380 to 384 - Cl. 17 T. Gr. 20 T.

✓ ✓ 381+57 - F.E. - Lt P. 15"x24' C.M.

✓ ✓ 382+76 - F.E. - Rt - Remove culv. - P. 15"x24' C.M.

✓ ✓ 383+00 - F.E. - Lt - P. 15"x24' C.M.

✓ ✓ 384+38 - Remove culv. P. 24" P_3.

✓ ✓ 386+65 - F.E. - Rt - P. 15"x24' C.M.

✓ ✓ 388+20 - " " - " "

✓ ✓ 390+51 - Remove culv. - P. 24" P_3.

✓ ✓ 391+40 - F.E. - Lt - No culv. req.

✓ ✓ 391 to 393 - Cl. B, Gr. 9 T.

✓ ✓ 391+80 - F.E. - Rt - P. 15"x24' C.M.

✓ ✓ 392+60 - Walk on Rt - Rep. 12"x10' C.M. from 394+06

✓ ✓ 393+09 - Road Lt - P. 15"x30' C.M.

✓ ✓ 394+06 - Remove culv. P. 24" P_3.

✓ ✓ 395 to 403 - Cl. B Gr. 40 T.

✓ ✓ 395+50 - Walk on Rt - Rep. 12"x10' C.M. from 394+06

✓ ✓ No culv's. req. at Co. Rd. "C"

✓ ✓ 397+71 - Remove culv. P. 24" P_3. H.D. on Lt 30 C.Y.

(over)

✓✓ 398+25 - F.E. Rt. - Remove culv. - P. 15" X 24' C.M.

✓✓ 399+70 - Lt. - Leave culv. in place.

✓✓ 401+60 to 402+20 - Move hedge.

✓✓ 402+30 - F.E. Rt. - P. 15" X 24' C.M.

✓✓ 19th Ave. Remove & rep. culv. on Lt. - Rt. - P. 15" X 24' C.M.

✓✓ 406 to 407 - Cl. & Gr. 4 T.

✓✓ 20th Ave. Lt. - Remove culv. - P. 15" X 30' C.M.

✓✓ 409+26 - F.E. - Lt. - P. 15" X 24' C.M.

✓✓ 409+47 - Remove culv. P. 24" P_3

✓✓ 411+05 - F.E. Lt. - P. 15" X 24' C.M.

✓✓ 411+30 - F.E. Rt. - Remove culv. P. 15" X 24' C.M.

✓✓ 411 to 412 - Cl. & Gr. 2 T.

✓✓ 411+43 - Remove wall.

✓✓ 411+71 - F.E. - Lt. - P. 15" X 24' C.M.

✓✓ 413+30 " " "

✓✓ 414+53 " " "

✓✓ 415+03 " " No culv. req.

✓✓ 416+45 " " P. 15" X 24' C.M.

✓✓ 416+87 " Rt. "

✓✓ 418 to 422+85 Cl. 10 Gr. 3 T.

✓✓ 422+85 to 426 - Cl. 22 T. Gr. 17 T.

✓✓ 422+70 - F.E. Lt. - No culv. req.

✓✓ 423+49 - " Rt. - " " "

✓✓ 427+30 - P. 24" P_3.

✓✓ 428 to 429 - Cl. 2 T.

✓✓ 434+81 - F.E. - Rt. & Lt. - P. 15" X 24' C.M. on Rt. - No culv. req. on Lt.

✓✓ 434 to 435 - Cl. & Gr. 3 T.

✓✓ 438+69 - Leave culv. - No culv. req.

✓✓ 444+27 - Remove culv. - P. 24" P_3

(27.04)

Co. Road "D" - No culv's. req.

451 to 452 - Cl. & Gr. 21T.

451+86 - F.E. Rt - No culv. req.

454+85 - " " - " " "

454+85 " Lt - P. 15" X 24' C.M.

457+75 - Remove culv. P. 24" P_3

462 to 466 - Cl. 9T. Gr. 8T.

466+00 - P. 24" P_3

469+38 - Leave culv. - No culv. req.

467+50 to 473+50 - Cl. & Gr. 60 T.

471+02 - F.E. Rt - P. 15" X 24' C.M.

473+67 - Remove culv. P-24" P_3

476 to 479 - Cl. & Gr. 4T.

479 to 482 - Cl. 18T. Gr. 6T.

479+72 - Remove culv. P. 24" P_3

481+70 - F.E. Lt - No culv. req.

481+70 - " Rt - P. 15" X 24' C.M.

482+40 - " " - "

486+58 - " " - "

491+32 - Walk Rt - Remove culv. - Rep. 12" X 10' C.M. from 492+25.

490 to 492 - Cl. & Gr. 13T.

Remove culv's

492+25 - F.E. Rt & Lt - P. - 2 - 15" X 24' C.M.

496+30 - Leave culv. No culv. req.

499+25 - F.E. Rt - " " "

500 to 501 - Cl. & Gr. 4T.

Remove all G.R. at int. of Proj. and Wildwood Road - 300' - Replace on Lt of tangent of curve on E. Co. line road - 150'

Fill intersection complete.

(over)

Guard Rail

✓✓ 382 to 386 - G.R. O.K.

✓ 397 to 398+50 G.R. - No.

✓✓ 408 " 411 " " - O.K.

✓ 415 " 416 No.

✓✓ 417+75 " 420+75 O.K.

✓✓ 419 to 423 O.K.

✓✓ 425+50 to 429+00 - O.K. Lt.

✓✓ 426+00 to 430+00 - O.K. Rt.

✓✓ 438 to 440 - O.K.

✓✓ 443 to 445 O.K.

✓✓ 456 to 458 O.K.

✓✓ 464 to 467 - O.K.

✓✓ 472 to 474 O.K.

✓✓ 476+50 to 477 - O.K.

? ✓ 476 to 477 O.K.

✓✓ 479 to 480 O.K.

✓✓ 478 to 480 O.K.

✓✓ 487 to 489 O.K.

✓✓ 495 to 497 O.K.

✓✓ 501 to 503 O.K.

U 2495