

Survey of Patrick Drain.

Survey of Patrick Drain, located on sections 19, 30 and 31 of town 2 north of range 2 east (White Oak), Ingham county, Michigan, and described as follows, to wit:

B-9

Commencing in the Barnes and Patrick drain at a point on the north and south quarter line of section 19 28.57 chains north of the south quarter post of said sec 19 and running thence s 1 64° e on the said quarter line between the w 1/2 of the s e 1/4 of said sec 19, O. L. Lathrop, owner, and the n e 1/4 of the s w fr 1/4 of sec 19, W. S. Walker owner, 8.47 chs to the southeast corner of the aforesaid n e 1/4 of the s w fr 1/4 of said sec 19.

Thence s 1 64° e on the said quarter line between the aforesaid w 1/2 of the s e 1/4 of said sec 19, O. L. Lathrop owner, and the s n 1/4 of the s w fr 1/4 of said sec 19, G. L. Carter owner, 20.10 chs to the south line of said lands and section line.

Thence s 1 64° e on the line between the n e 1/4 of the n w fr 1/2 of sec 30, Mrs. L. Hill owner, and the w 1/2 of the n w 1/4 of the n e 1/4 of sec 30, O. L. Lathrop owner, 3.51 chs.

Thence wholly upon the last above described land owned by the said O. L. Lathrop s 31 1/2° e 9.15 chs to the east line of said land at a point 3.09 chs north from the southeast corner thereof.

Thence upon the e 1/2 ac of the w 24 ac of the n w 1/4 of the n e 1/4 of said sec 30, P. E. Ciekner owner, s 31 1/2° e 31 links, thence s 3° e 6.9 chs, thence s 20 1/2° w 44 links to the west line of said land at a point 98 links north of the southwest corner thereof. Total length of drain on said land is 7.73 chs.

Thence upon the aforesaid w 1/2 ac of the n w 1/4 of the n e 1/4 of sec 30 and a parcel of 3 ac (being 25 rods wide east and west) to the northwest corner of the s w 1/4 of the n e 1/4 of sec 30, O. L. Lathrop owner, s 20 1/2° w 50 links, thence s 33° w 8.17 chs to the south line of the aforesaid lands at a point 3.25 chs east of the southwest corner of the aforesaid 3 ac in the northwest corner of the s w 1/4 of the n e 1/4 of said sec 30. Total length of drain on the west line of the aforesaid lands owned by O. L. Lathrop is 23.08 chs. Total length of drain wholly upon said lands is 17.88 chains.

Thence upon the s w 1/4 of the n e 1/4 of said sec 30, P. E. Ciekner owner, s 31 1/2° w 31 links, thence s 33° w 8.00 chs, thence s 21° w 4.07 chs to the south line of said lands at a point 1.33 chs east of the southwest corner thereof. Total length of drain on said land is 12.38 chs.

B-10

Thence upon the w 1/2 of the n w 1/4 of the s e 1/4 of said sec 30, Thomas Hale owner, s 24° w 47 lks, thence s 5° e 5.29 chs, thence s 48 1/2° e 4.73 chs, thence s 30° e 4.19 chs, thence s 16 1/2° e 3.12 chs to the south line of said land at a point 1.00 ch west of the southeast corner thereof. Total length of drain on said land is 22.60 chs.

Thence upon the s w 1/4 of the s e 1/4 of said sec 30, Mrs. Geo. H. Proctor owner, s 16 1/2° e 2.01 chs, thence s 68° e 4.20 chs, thence s 23 1/2° e 3.00 chs, thence s 55 1/2° e 2.01 chs, thence s 10° e 4.63 chs, thence s 4 1/2° e 5.87 chs, thence s 10° e 2.53 chs to the south line of said land and section line at a point 2.89 chs west of the southeast corner of said land. Total length of drain on said land is 21.25 chs.

Thence upon the s 1/2 of the w 1/4 of the n e 1/4 of sec 31, Evelline M. Sayles owner, s 10° e 4.25 chs, thence s 4° e 10.39 chs, thence s 14 1/2° w 5.55 chs, thence s 31 1/2° w 4.16 chs, thence s 67° w 2.91 chs to the west line of said land at a point 15.17 chs north of the southwest corner thereof. Total length of drain on said land is 27.25 chs.

Thence upon the w 1/2 of the n e 1/4 of said sec 31 and the n 1/2 of the w 1/2 of the s e 1/4 of said sec 31, Effie M. Davis owner, s 67° w 54 links, thence s 35 1/2° w 2.28 chs, thence s 10 1/2° w 13.40 chs, thence s 89 1/2° w 5.15 chs to the west line of said lands and interior quarter post of said sec 31. Total length of drain on said land is 21.37 chains.

B-12

Thence s 1 1/2° e upon the line between the aforesaid n 1/2 of the w 1/2 of the s e 1/4 of sec 31, Effie M. Davis owner, and the s w fr 1/4 of sec 31, D. S. Grimes owner, 4.36 chs to the south line of the n 1/2 of the w 1/2 of the s e 1/4 of sec 31.

Thence s 1 1/2° e upon the line between the s 1/2 of the w 1/2 of the s e 1/4 of sec 31 and the aforesaid s w fr 1/4 of sec 31, D. S. Grimes owner of both parcels, 5.19 chs, thence wholly upon the aforesaid s w fr 1/4 of sec 31 s 83° w 7.70 chs, thence n 54 1/2° w 6.83 chs, thence n 24° w 7.57 chs to the north line of the aforesaid s w fr 1/4 of sec 31 and the east and west quarter line of said sec 31. Total length of drain wholly upon the aforesaid lands owned by D. S. Grimes is 27.69 chs.

A-12

Thence west along the line between the aforesaid s w fr 1/4 of sec 31, D. S. Grimes owner, and the n w fr 1/4 of said sec 31, Matthew Lohman owner, (said line being the east and west quarter line in said sec 31) 20.31 chs to the upper end of said drain at the west quarter post of said sec 31. Total length of drain upon boundary lines of the aforesaid lands owned by D. S. Grimes is 25.47 chs.

The total length of said drain is 218.10 chains.

The above described line is to be the center line of said drain and excavations therefor are to be taken in equal widths along each side of said center line. Said center line is marked by stakes at the beginning and end thereof, at each angle and by stakes accompanying the intermediate grade stakes. Grade stakes and witness stakes are set to one side of said center line for its entire length at each two chains, except station 63 which is only 71 links from station 62 and except station 111 which is only 1.39 chains from station 110. Said witness stakes are regularly numbered from the lower end of said drain and to the upper end thereof.

The right of way for said drain shall be deemed to include the grade, slope and extreme depths and top widths thereof for its entire length and a strip of land thirty-three feet in width along each side of a next adjoining the surface cut thereof throughout its entire course to be used for placing thereon the earth excavated from said drain or for any other purpose necessary in constructing and maintaining said drain.

The average depth of said drain is to be 3.82 feet. Said drain is to have a bottom width of one and one-half feet with banks each sloping outward at an angle of 45 degrees from the bottom of said drain to the surface thereof.

Grade from stake 1 to stake 6 is 12 ft per 8 rods.

"	"	6	"	34	37	"
"	"	34	"	37	75	"
"	"	37	"	42	1.00	"
"	"	42	"	50	20	"
"	"	50	"	50	50	"
"	"	50	"	67	20	"
"	"	67	"	77	10	"
"	"	77	"	87	31	"
"	"	87	"	101	10	"
"	"	101	"	111	28	"

Surveyed March 6th, 7th and 8th, 1900.
E. A. CALKINS, Surveyor.

3.51
+ .66

21.06
21.06

231.66

WHITE OAK
T 2 N - R 2 E



Dick - This is my info on Sec's 18 & 19 of White Oak

SUBJECT

JOB NUMBER

SHEET NO. OF

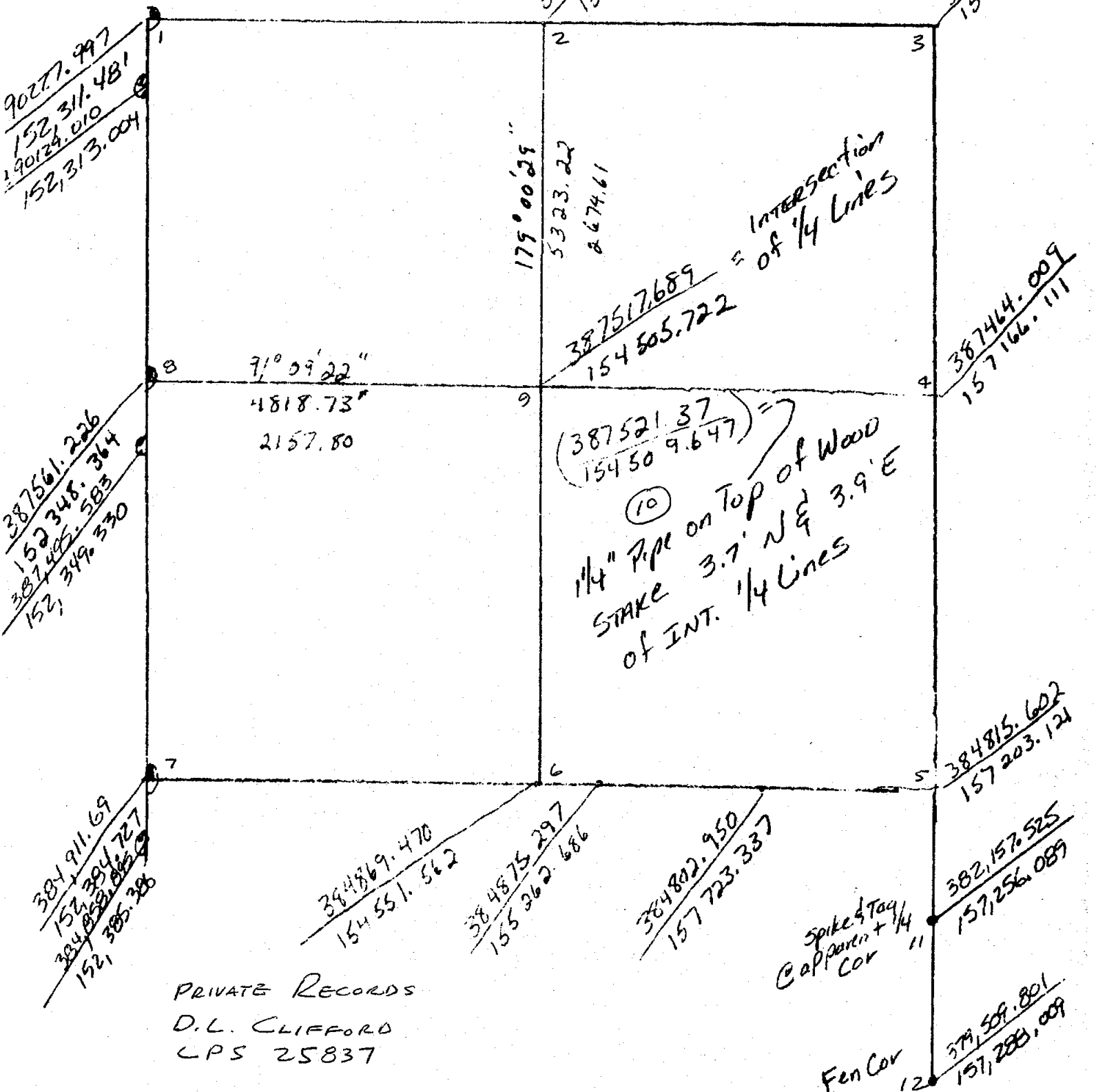
COMP. BY DATE

CHEK'D. BY DATE

Michigan

Indiana

cen. Sec 18
White Oak Twp.



PRIVATE RECORDS
D.L. CLIFFORD
LPS 25837

R. W. STEADMAN & ASSOCIATES, INC. ES-1476M
JOB NAME...INGHAM REMON PROJECT-D L Clifford Coords JOB CODE...00094040
DATE:09-19-1994 TIME:14:16:10
POINTS-----COORDINATES---N/E/EL/DESCR.-----210

#	NORTH	EAST	ELEVATION	DESCRIPTION
1	390227.997000	152311.481000	0.00	A-5
2	390191.897000	154459.420000	0.00	B-5
3	390151.258000	157127.725000	0.00	C-5
4	387464.009000	157166.111000	0.00	C-6
5	384815.602000	157203.121000	0.00	C-7

6	384869.470000	154551.562000	0.00	B-7
7	384911.690000	152384.727000	0.00	A-7
8	387561.226000	152348.364000	0.00	A-6
9	387517.689000	154505.722000	0.00	1/4 LINE INT
10	387521.370000	154509.647000	0.00	B-6

11	382157.525000	157256.089000	0.00	C-8
12	379509.801000	157288.009000	0.00	C-9

R. W. STEADMAN & ASSOCIATES, INC. ES-1476M
JOB NAME...INGHAM REMON PROJECT-D L Clifford Coords JOB CODE...00094040
DATE:09-19-1994 TIME:14:03:15
INVERSE-----MANUAL MODE-----204

COURSE #	BEARING	AZIMUTH	DISTANCE	CORNER NOS.
1	S 1/08/29.7 E	178/51/30.3	2658.605	5 --- 11
2	S 0/41/26.5 E	179/18/33.5	2647.916	11 --- 12

NO AREA FOR OPEN RUN

PERIMETER.... 5306.521 FEET

R. W. STEADMAN & ASSOCIATES, INC. ES-1476M
JOB NAME...INGHAM REMONUMENTATION PROJECT TRAVERSES JOB CODE...00094040
DATE:11-17-1994 TIME:16:08:03

STAKEOUT-----LAYOUT OF POINTS-----112

LAYOUT.....B.S.#... 4 INST. #... 5

BASELINE DISTANCE..... 424.03

POINT #	HOR. ANGLE/AZ.	DISTANCE	REM./BEARING
18	178/43/13.5	250.91	

R. W. STEADMAN & ASSOCIATES, INC. ES-1476M
JOB NAME...INGHAM REMONUMENTATION PROJECT TRAVERSES JOB CODE...00094040
DATE:11-17-1994 TIME:16:00:08
POINTS-----COORDINATES---N/E/EL/DESCR.-----210

#	NORTH	EAST	ELEVATION	DESCRIPTION
1	1500.000000	6000.000000	0.00	W01-21-1-C9
2	1670.111757	5427.436222	0.00	W01-21-2
3	1501.336350	4682.762645	0.00	W01-21-3
4	1638.706677	4015.879015	0.00	W01-22-4
5	1555.008031	3600.196760	0.00	W01-23-5

6	1493.894983	3658.943235	0.00	W01-24-6
7	1565.624286	3364.595824	0.00	W01-24-7
8	192.408914	4464.075457	0.00	W01-25-8
9	173.357333	2892.235911	0.00	W01-26-9
10	468.464592	132.630175	0.00	W01-27-10

11	1335.799687	87.086845	0.00	W01-28-11
12	1500.000000	1164.334520	0.00	W01-29-12-A9
13	1537.186804	3636.942338	0.00	W01-30-13
14	1626.426028	2714.147252	0.00	W01-31-14
15	1494.128728	2040.097719	0.00	W01-32-15

16	1502.995359	4169.098924	0.00	W01-33-16
17	1500.903616	3348.690458	0.00	W01-34-17
18	1500.000000	3355.390000	0.00	W01-35-18-B9

R. W. STEADMAN & ASSOCIATES, INC. ES-1476M
JOB NAME...INGHAM REMON PROJECT - 1995 JOB CODE...00095066
DATE:12-05-1995 TIME:16:03:36
POINTS-----COORDINATES---N/E/EL/DESCR.-----210

#	NORTH	EAST	ELEVATION	DESCRIPTION
1	379510.426498	157288.570868	0.00	W01-21-1-C9
2	379687.391735	156718.088094	0.00	W01-21-2
3	379527.557967	155971.444222	0.00	W01-21-3
4	379672.915095	155306.255797	0.00	W01-22-4
5	379594.206923	154889.599839	0.00	W01-23-5

6	379532.393879	154947.609200	0.00	W01-24-6
7	379607.647588	154654.143079	0.00	W01-24-7
8	378221.346885	155737.077291	0.00	W01-25-8
9	378221.144828	154165.122250	0.00	W01-26-9
10	378549.321772	151409.253634	0.00	W01-27-10

11	379417.140632	151374.113858	0.00	W01-28-11
12	379568.411682	152453.253059	0.00	W01-29-12-A9
13	379575.946383	154926.129000	0.00	W01-30-13
14	379676.244546	154004.470427	0.00	W01-31-14
15	379552.039391	153328.882891	0.00	W01-32-15

16	379535.376269	155457.837346	0.00	W01-33-16
17	379543.122264	154637.462847	0.00	W01-34-17
18	379542.138394	154644.151030	0.00	W01-35-18-B9
19	382240.340430	152415.930321	0.00	W01-14-31-C8
20	383440.462966	152394.717211	0.00	W01-38-20

21	384911.689293	152384.763275	0.00	W01-3-21-A7
22	384869.470000	154551.562000	0.00	W01-6-22-B7
23	382637.518766	154852.964674	0.00	W01-39-23
24	382211.060535	154602.163868	0.00	W01-12-24-B8
25	384833.093733	157070.499357	0.00	W01-41-25

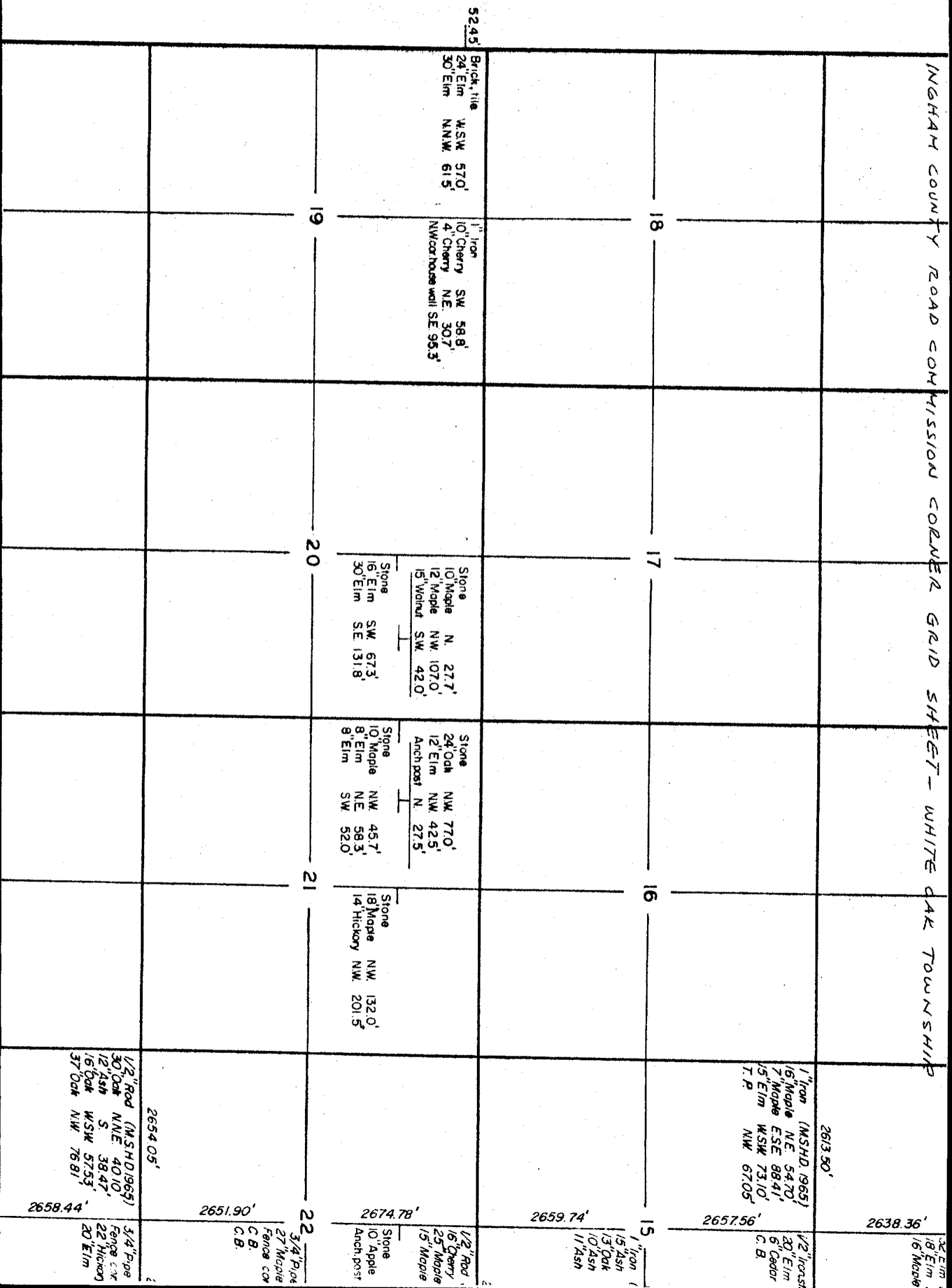
26	384815.608113	157203.323353	0.00	W01-9-26-C7
27	382166.516078	157429.685726	0.00	W01-43-27
28	378559.459555	157549.020468	0.00	W01-44-28
29	378204.817183	158201.703763	0.00	W01-45-29
30	378172.610174	157379.594393	0.00	W01-46-30

31	382160.601817	157257.207095	0.00	W01-14-31-C8
32	382204.402449	154597.880877	0.00	INT-1/4LINES
33	384911.690000	152384.727000	0.00	A-7 CLIFFORD
34	384869.470000	154551.562000	0.00	B-7 CLIFFORD
35	384815.602000	157203.121000	0.00	C-7 CLIFFORD

36	379509.801000	157288.009000	0.00	C-9 CLIFFORD
37	382157.525000	157256.089000	0.00	C-8 CLIFFORD

(T.2N. R.1E. Ingham Twp., Ingham County)

INGHAM COUNTY ROAD COMMISSION CORNER GRID SHEET - WHITE OAK TOWNSHIP



52.45

Brick tile
24' Elm WSW 570'
30' Elm N.N.W. 615'

1" Iron
10" Cherry SW 58.8'
4" Cherry NE 30.7'
NW corner house wall SE 95.3'

Stone
10" Maple N. 27.7'
12" Maple NW 107.0'
15" Walnut SW 42.0'

Stone
24" Oak NW 77.0'
12" Elm NW 42.5'
Anch post N. 27.5'

Stone
18" Maple NW 132.0'
14" Hickory NW 201.5'

1" Iron (MSHD 1965)
16" Maple NE 54.70'
7" Maple ESE 88.41'
15" Elm WSW 73.10'
T.P. NW 67.05'

1/2" Iron
20" Elm
6" Cedar
C.B.

1" Iron
15" Ash
13" Oak
10" Ash
11" Ash

Stone
10" Apple
Anch. post

3/4" Pipe
27" Maple
Fence cor
C.B.

1/2" Rod (MSHD 1965)
30" Oak NNE 40.10'
12" Ash S 38.47'
16" Oak WSW 57.53'
37" Oak NW 76.81'

3/4" Pipe
Fence cor
22" Hickory
20" Elm

2658.44'

2651.90'

2674.78'

2659.74'

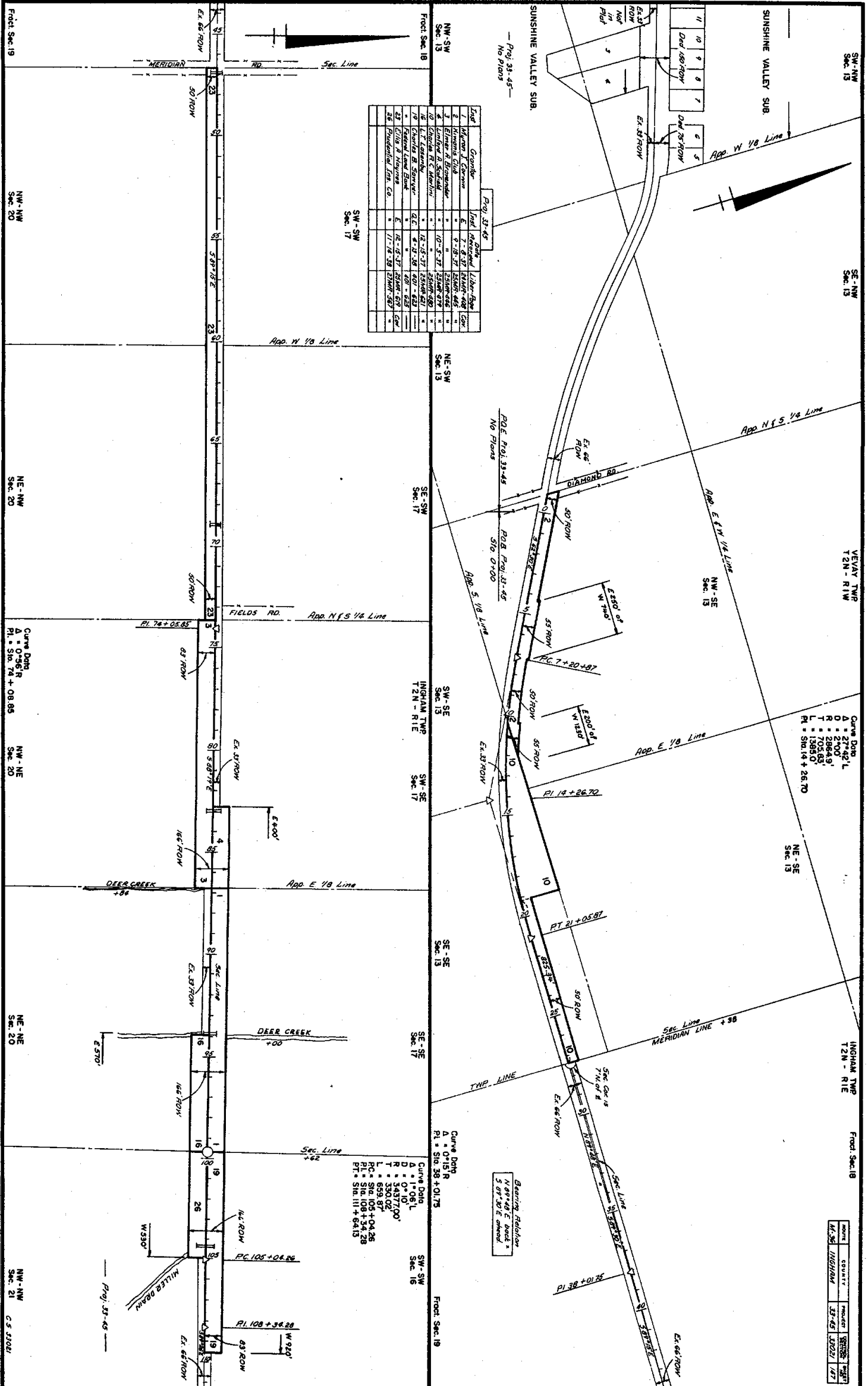
2657.56'

2638.36'

2613.80'

2654.05'

OPERATION	BY	DATE
DRAWN	E. DODD	7-26-45
POSTED	E. DODD	7-27-45
CHECKED	H. ADKINS	7-28-45
REVIEWED	R. W. BRYAN	7-28-45
REVISION		
REVISION		



Line	Grantee	Final Date	Liberal-Release
1	William J. Conroy	1-13-45	1/13/45
2	James A. Conroy	2-18-45	2/18/45
3	Elmer A. Conroy	3-18-45	3/18/45
4	Lincoln A. Conroy	4-18-45	4/18/45
5	Lincoln A. Conroy	5-18-45	5/18/45
6	Lincoln A. Conroy	6-18-45	6/18/45
7	Lincoln A. Conroy	7-18-45	7/18/45
8	Lincoln A. Conroy	8-18-45	8/18/45
9	Lincoln A. Conroy	9-18-45	9/18/45
10	Lincoln A. Conroy	10-18-45	10/18/45
11	Lincoln A. Conroy	11-18-45	11/18/45
12	Lincoln A. Conroy	12-18-45	12/18/45
13	Lincoln A. Conroy	1-18-46	1/18/46
14	Lincoln A. Conroy	2-18-46	2/18/46
15	Lincoln A. Conroy	3-18-46	3/18/46
16	Lincoln A. Conroy	4-18-46	4/18/46
17	Lincoln A. Conroy	5-18-46	5/18/46
18	Lincoln A. Conroy	6-18-46	6/18/46
19	Lincoln A. Conroy	7-18-46	7/18/46
20	Lincoln A. Conroy	8-18-46	8/18/46
21	Lincoln A. Conroy	9-18-46	9/18/46
22	Lincoln A. Conroy	10-18-46	10/18/46
23	Lincoln A. Conroy	11-18-46	11/18/46
24	Lincoln A. Conroy	12-18-46	12/18/46
25	Lincoln A. Conroy	1-18-47	1/18/47
26	Lincoln A. Conroy	2-18-47	2/18/47
27	Lincoln A. Conroy	3-18-47	3/18/47
28	Lincoln A. Conroy	4-18-47	4/18/47
29	Lincoln A. Conroy	5-18-47	5/18/47
30	Lincoln A. Conroy	6-18-47	6/18/47
31	Lincoln A. Conroy	7-18-47	7/18/47
32	Lincoln A. Conroy	8-18-47	8/18/47
33	Lincoln A. Conroy	9-18-47	9/18/47
34	Lincoln A. Conroy	10-18-47	10/18/47
35	Lincoln A. Conroy	11-18-47	11/18/47
36	Lincoln A. Conroy	12-18-47	12/18/47

33-R-3

NAME	COUNTY	PROJECT	DATE
M. S. INGHAM	INGHAM	33-45	1/27

Curve Data
 A = 0°15'R
 P.I. = Sta. 38 + 01.75

Curve Data
 A = 0°15'R
 P.I. = Sta. 38 + 01.75

Curve Data
 A = 0°15'R
 P.I. = Sta. 38 + 01.75

Curve Data
 A = 27°02'L
 P.I. = Sta. 14 + 26.70

Curve Data
 A = 0°56'R
 P.I. = Sta. 74 + 08.85

Curve Data
 A = 27°02'L
 P.I. = Sta. 14 + 26.70

Curve Data
 A = 27°02'L
 P.I. = Sta. 14 + 26.70

Curve Data
 A = 27°02'L
 P.I. = Sta. 14 + 26.70