

COLUMBIA COUNTY SURVEYOR

DATE RECEIVED 8-27-81

DATE FILED 8-27-81

BY g

	Col	Diff lat	diff Dep	Total lat	Total Dep
STATIST				15 432.10	4669.04
13+60 ² ^{NE} 1/4 Sta 31	31	+ 16.04	13 13.65	15 448.14	5982.69 ✓
26+08 ² ^{NE} 1/4 Cor 31	31	32.08	26 27.30	15 464.14	7296.34 ✓
53+35 ² ^{NE} Cor 31-32	31-32	64.16	52 54.59	15 496.22	9 923.63
80+23 ² ^{NE} 1/4 Cor 32	32	96.24	78 81.89	15 528.30	12 550.93
106+44 ² ^{NE} Cor 32-33	32-33	128.32	10 509.18	15 560.38	15 178.22
135+19 ² ^{NE} 1/4 Cor 33	33	160.40	13 136.48	15 592.46	17 805.52 ✓
162+93 ² ^{NE} Cor 33-34	33-34	192.48	15 763.77	15 624.53	20 432.81
189+24 ² ^{NE} 1/4 Cor 34	34	224.56	18 391.07	15 656.61	23 060.71
Sta Cor 34-35	34-35	256.63	21 018.35	15 688.69	25 687.39

$$0^{\circ}42'21'' \quad \sin .01231880$$

$$\cos .99992412$$

diff in lat 256.63

$$\div 2 = 128.32 \text{ 2 mi}$$

$$\div 2 = 64.16 \text{ 1 mi}$$

$$\begin{array}{l} \frac{1}{16} \text{th} \quad + 16.04 \\ \frac{1}{4} \text{ Cor } 31 \quad + 32.08 \\ \text{Cor } 31-32 \quad + 64.16 \\ \frac{1}{4} \text{ Cor } 32 \quad + 96.24 \\ \text{Cor } 32-33 \quad + 128.32 \\ \frac{1}{4} \text{ Cor } 33 \quad + 160.40 \\ \text{Cor } 33-34 \quad + 192.48 \\ \frac{1}{4} \text{ Cor } 34 \quad + 224.56 \\ \text{Cor } 34-35 \quad + 256.64 \end{array}$$

$$\begin{array}{r} 128.32 \\ 32.08 \\ \hline 160.40 \\ 32.08 \\ \hline 192.48 \\ 32.08 \\ \hline 224.56 \\ 32.08 \\ \hline 256.64 \end{array}$$

$$\begin{array}{l} \text{Total Lat} \\ \text{Total Dep} \\ 15432.06 \end{array}$$

$$\begin{array}{r} 2 \overline{) 21018.35} \quad 4 \text{ mi} \\ 2 \overline{) 10509.17} \quad 2 \text{ mi} \\ 2 \overline{) 5254.58} \quad 1 \text{ mi} \\ 2 \overline{) 2627.29} \quad \frac{1}{2} \text{ mi} \\ 1313.64 \end{array}$$

$$\begin{array}{r} 2 \overline{) 21019.94} \\ 2 \overline{) 10509.97} \\ 2 \overline{) 5254.99} \\ 2 \overline{) 2627.50} \\ 1313.75 \end{array}$$

$$\angle X \cos = \text{lat}$$

$$\angle X \sin = \text{dep}$$

S LINE 5N 3W

4 (21 019.94

4 (5 254.98

1313.77

2627.54

0° 42' 21"

Sin .01231880

Cos .99992412

LAT

Dep

2627.54

5254.98

7882.52

2627.54

10510.06

2627.54

13137.60

2627.54

15765.14

2627.54

18392.68

2627.54

21020.22

1313.77 X .01231880

.99992412

16.18

2627.54

32.37

5254.98

64.74

7882.52

97.10

10510.06

129.47

13137.60

161.84

15765.14

194.21

18392.68

226.58

21020.22

258.94

133 64
X 5.27

21 019.94
10 504.97
5 254.99
2627.50
1313.75

$$\begin{array}{r} 89 \ 59 \ 60 \\ 1 \ 54 \ 30 \\ \hline 88 \ 05 \ 30 \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 0 \ 2 \ 18 \\ \hline S \ 89 \ 57 \ 42 \ W \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 0 \ 14 \ 48 \\ \hline 89 \ 45 \ 12 \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 0 \ 16 \ 40 \\ \hline N \ 89 \ 43 \ 20 \ E \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 2 \ 52 \ 57 \\ \hline N \ 87 \ 07 \ 03 \ E \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 2 \ 56 \ 40 \\ \hline N \ 87 \ 03 \ 20 \ E \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 0 \ 56 \ 10 \\ \hline N \ 89 \ 03 \ 50 \ W \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 5 \ 03 \ 44 \\ \hline N \ 84 \ 56 \ 16 \ E \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 3 \ 05 \ 54 \\ \hline 86 \ 54 \ 06 \end{array}$$

$$\begin{array}{r} 89 \ 59 \ 60 \\ 3 \ 05 \ 54 \\ \hline 86 \ 54 \ 06 \end{array}$$

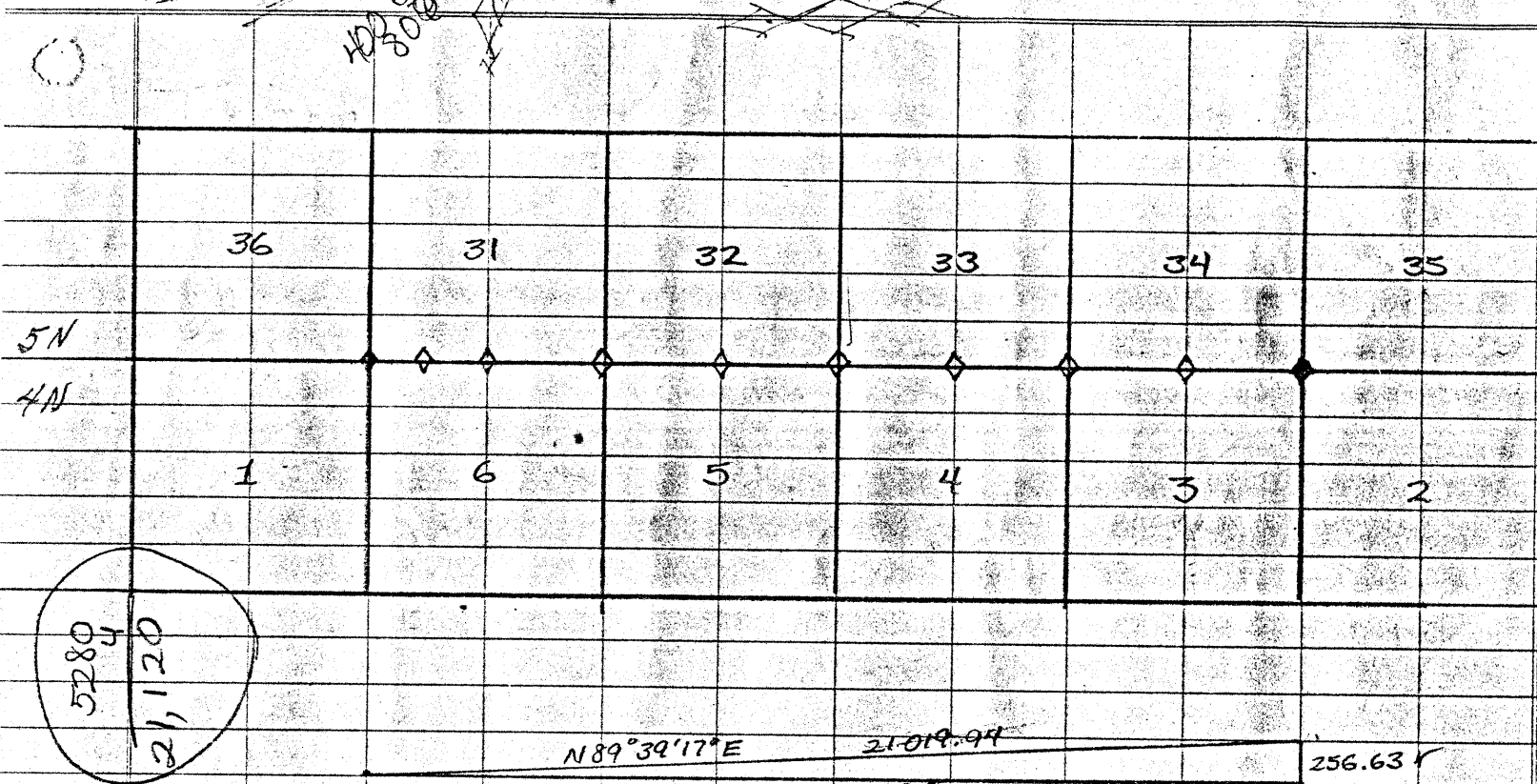
$$\begin{array}{r} 89 \ 59 \ 60 \\ 3 \ 05 \ 54 \\ \hline 86 \ 54 \ 06 \end{array}$$

231A

806.97

16196u

402000
300



Lat

Dep

end 15 688.69 ✓
begin 15 432.06 ✓
256.63

end 25 687.39 ✓
begin 4 855.70 ✓
20 831.69

437.10
361.8
69.6
1734.04

$$256.63 \div 20831.69 = .012319211$$

0° 42' 21"

N 89° 17' 39" E

$$20831.69 \div 0.99992412 (\cos 4) = 20833.27$$

20 833.27
10 416.64
5 208.32
2 604.16
1 302.08

4 | 20 019.94
4 | 5254.98
1313.74

$$21018.35 \div 99992412 = 21019.94$$

21019.94
186.66
4 | 21206.60
4 | 5301.65
1325.41

TWP LINE (SOUTH LINE OF 5N 3W)
TIES - CALCULATED CORNERS FROM TRAVERSE STATIONS

	LATS		Dep's	product	corrected	
①	15 448.93	13+60	8 888.03	00436331	Tan 0°15'	
W	15 448.14	1/16th Sec 31	5982.69	00430752	Tan 1°12'	0°14'48"
	00.79	÷	018.34	00005579	484.81	12
②	15 468.14	1/4 31	7296.34	00494514	Tan 0°17'	
E	15 460.90	26+08	7229.33	00483509	484.83	0°16'40"
	3.24	÷	67.01	00011005	020	
③	15 496.22	Cor 31-32	9983.63	5036768	Tan 26°44'	
NE	15 461.82	53+35	9855.31	5035128	607.71	26°43'57"
	34.40	÷	68.32	00001640	403	
④	15 528.30	1/4 32	12 550.93	5142979	Tan 27°13'	
NE	15 460.26	80+23	12 515.94	5142563	612.94	27°12'59"
	68.04	÷	34.99	00000416	01	
⑤	15 560.38	Cor 32-33	15 128.82	8862822	Tan 41°33'	
NE	15 419.30	106+44	15 053.25	8858094	865.40	41°32'54"
	141.08	÷	124.97	00004728	06	
⑥	15 592.46	1/4 33	17 805.52	3333020	Tan 18°26'	
NE	15 424.41	135+19	17 749.55	33330556	538.63	18°25'55"
	168.05	÷	55.97	00002464	05	
⑦	15 624.53	Cor 33-34	20 458.14	1634576	Tan 9°17'	
NW	15 469.47	162+93	20 432.81	1633561	497.70	9°16'58"
	155.06	÷	25.33	00001015	02	
⑧	15 656.61	1/4 34	23 066.11	5414501	Tan 28°26'	
NE	15 646.71	189+24	23 041.82	5412793	626.83	28°25'57"
	9.90	÷	18.29	00001708	03	

Set N Twp line 4-3
cons by Brg + GLO link distances

TIES

RUN	COS	CORRECTED DISTANCE	BEARING	TO SET CORNERS FOR 4-3 FROM ALL N 89°17'39" E
118.34	.99999073	118.34	From STATION TO CORNER STA 13+60 TO W 1/16th ON S LINE 31 S 89°45'12" W ✓	
67.01	.99998825	67.01	STA 26+08 TO S 1/4 Sec 31 N 89°43'20" E ✓	
68.32	.99873476	68.41	STA 53+35 TO COR 31-32 N 63°16'03" E	67 LINKS 44.22'
68.04	.99867981	68.13	STA 80+23 TO S 1/4 COR Sec 32 N 27°12'59" E	
141.08	.99609746	141.63	STA 106+44 TO COR 32-33 N 41°32'54" E	75 LINKS 49.50'
168.05	.99944538	168.14	STA 135+19 TO S 1/4 COR 33 N 18°25'55" E	
155.06	.99987124	155.08	STA 162+93 TO COR 33-34 N 9°16'58" W	200 LINKS 132'
18.29	.99853824	18.32	STA 189+24 TO S 1/4 COR Sec 34 N 61°34'03" E	

7.92
2283
224136
12-18628