

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

Topographic Survey

JOY PARK

From _____ To _____

Road Acc't. No. _____

Date Filed _____

On 13
File *Bk 31*

1
Joy Park

Property Survey

Reduced
&
checked
L.D.G.

89° 42' 15"

90° 00' 45"

89° 15' 15"

91° 01' 45"

260 60 120

90° 44' 45"

91° 01' 45"

1° 61' 45"
44' 45"
17
8 30

90° 44' 45"
8 30

90° 53' 15"
20 30"

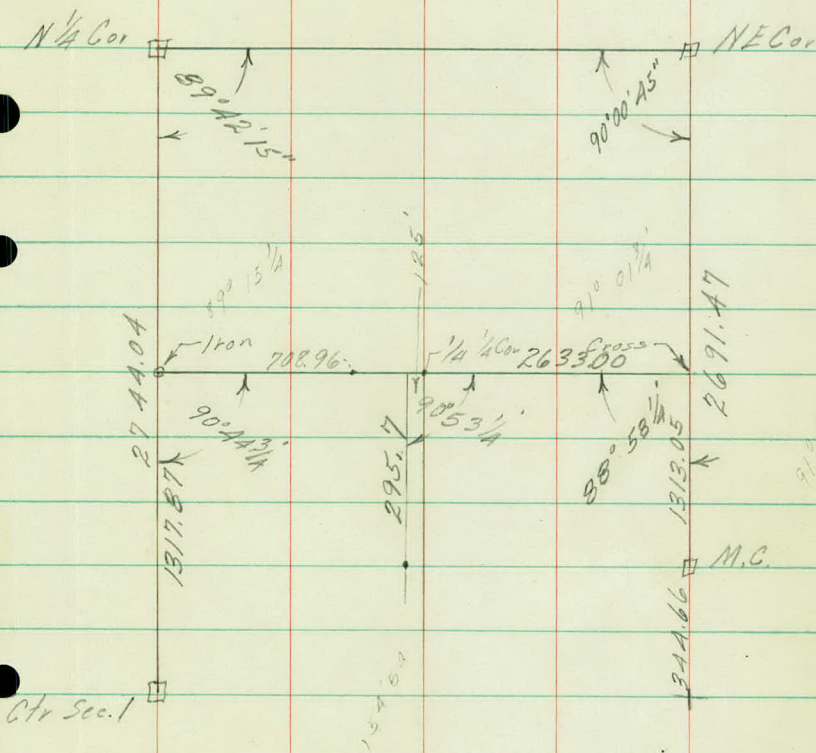
90° 1' 45"

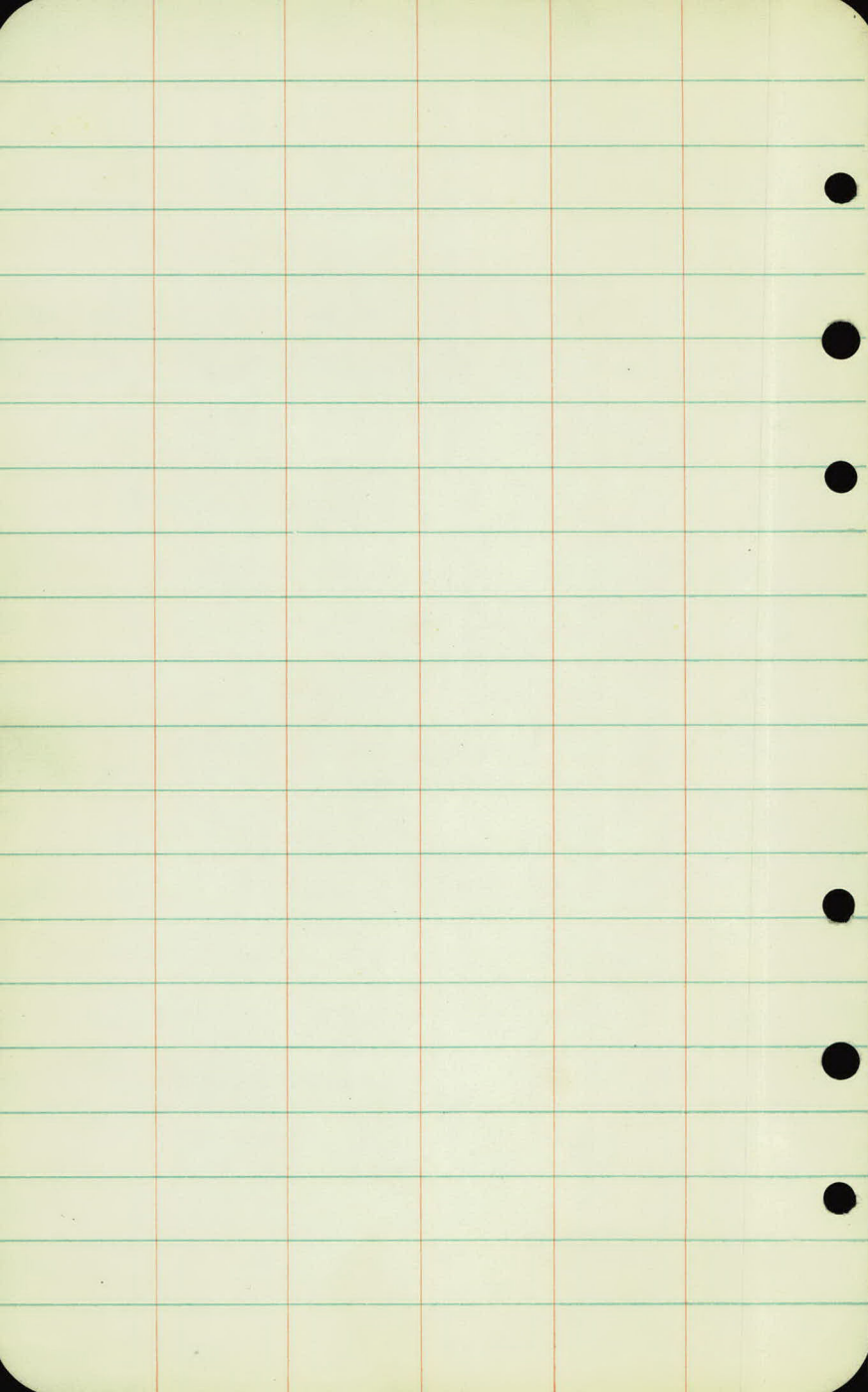
91° 01' 45"
44' 45"
17
20 30"

FX
LC
JM
CW

April 10, 1956
Perfect 55°

2





Jay Park

Bench Levels

Sta	+	π	-	Elev
BM	5.88	998.36		992.48
W.S.			10.38	987.98
TP	9.33	1007.56	0.13	998.23
BM	0.31	1006.93	0.94	1006.62
BM	2.95	1008.18	1.70	1005.23
BM			2.62	1005.56
BM	8.52	1004.14	12.56	995.62
BM	6.43	1008.39	2.18	1001.96
BM			2.19	1006.20
TP	1.36	1000.91	8.84	999.55
BM			0.91	1000.00
W.S.			12.93	987.98 987.98
BM	13.31	1019.93		1006.62
TP	7.91	1026.34	1.50	1018.43
ΔB			1.21	1025.13
TP	2.05	1015.38	13.01	1013.33
BM			10.15	1005.23

Top SW Cor Outlet Headwall

Spike in T.P. STH #100 + Ent to Joy Park

Spike in 20" Elm Btwn House + Garage

Spike in 28" Elm Near Where Barn was

Top S. End ^{10"} 12" Vit x-Drain

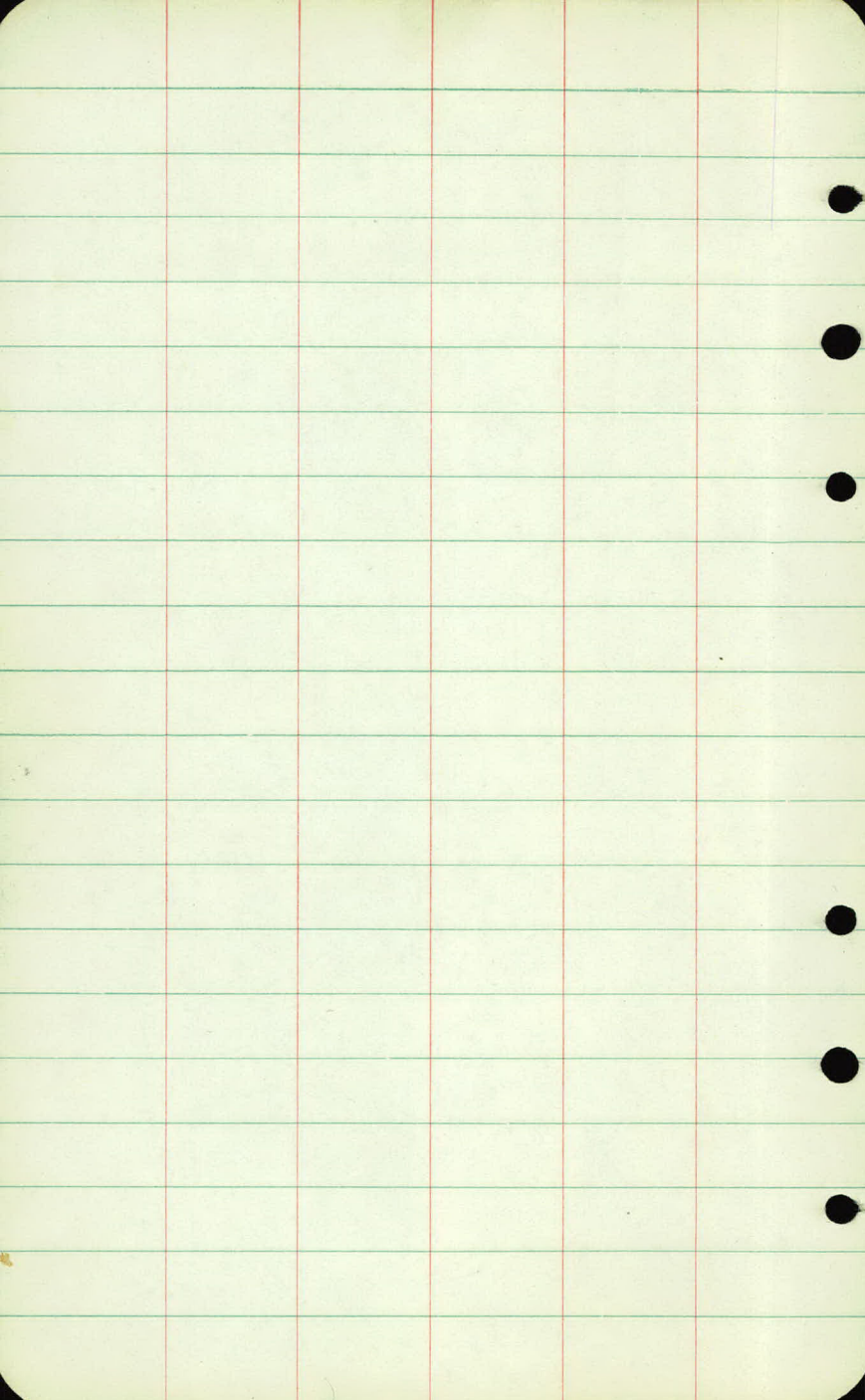
Spike in P.R.

Spike in P.P. With 2 Guy Wiers

Spike in 30" Cottonwood at Lake or point

Spike in T.P. STH #100 + Ent to Joy Park

Spike in 20" Elm Btwn House + Garage



FA
LC
CW
JM

VERT.
ANGLE

ROD
EQUIV.

April 16, 1956
Cold Windy 33°
ROD DIFF. ELEV.

5

Stadia

OBJECT

H.I. = 996.98

AZ.

STADIA

X at M.C.

to N.E. Cor. Co. prop. $0^{\circ}00'$ 960 $153^{\circ}10'$ 32

B.M. at silver lake control (Lake Imp.)

to Δ "A" $328^{\circ}50\frac{1}{2}'$ 321

sh/d of Rd.

 $125^{\circ}15'$ 93

" "

 $142^{\circ}-$ 79

" "

 $93^{\circ}35'$ 55

" "

 $118^{\circ}10'$ 36

" "

 $39^{\circ}30'$ 64

" "

 $22^{\circ}05'$ 36

" "

 $16^{\circ}26'$ 101

" "

 $1^{\circ}15'$ 85

" "

 $7^{\circ}10'$ 154

" "

 $357^{\circ}05'$ 140

" "

 $4^{\circ}-$ 211

" "

 $356^{\circ}30'$ 203

INST. VERT. ROD April 16, 1956 6
 ANGLE EQUIV. ROD DIFF. ELEV.

H.I. 5.29

991.69

4.50

992.48

1.60

995.38

4.6

92.4

3.8

93.2

5.1

91.9

3.5

93.5

5.2

91.8

3.4

93.6

4.7

92.3

2.9

94.1

3.5

93.5

2.1

94.9

1.8

95.2

1.2

95.8

OBJECT	AZ.	STADIA
	996.98	
Sh/d. of Rd	2° 40'	270
" "	2° —	340
" "	357° 30'	335
" "	1° 40'	427
" "	358° —	425
" "	1° 25'	544
" "	358° 30'	540
ditch	357° 40'	545
G. E.	356° 25'	540
"	356° 05'	490
ditch	357° 35'	480
"	357° —	415
"	356° 55'	358
G. E.	355° 40'	448
ditch	355° 25'	285
G. E.	355° 05'	404
ditch	354° 05'	230
G. E.	354° 25'	340

APRIL 16, 1954 7

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

88.47

+0.4

97.4

+2.3

99.3

+3.7

1000.7

+ 1° 01' +7.6

3.0

+4.6

01.6

+ 1° 01' +7.6

3.1

+4.5

01.5

+ 1° 05' +10.3

3.0

+7.3

04.3

+ 1° 05' +10.2

2.9

+7.3

04.3

+ 1° 29' +14.1

9.0

+5.1

02.1

+ 1° 29' +14.0

3.1

+10.9

07.9

+ 1° 33' +13.2

1.8

+11.4

08.4

+ 1° 33' +13.0

9.0

+4.0

01.0

+ 1° 57' +14.1

11.0

+3.1

00.1

+ 1° 57' +12.2

10.5

+1.7

98.7

+ 2° 02' +15.9

3.0

+12.9

09.9

1.8

95.2

+ 3° 12' +22.5

10.0

+12.5

09.5

3.9

93.1

+ 3° 05' +18.3

10.0

+8.3

05.3

OBJECT

AZ.

STADIA

996.98

G. E.

352° 50' 290

"

252° 30' 258

ditch

352° 45' 180

"

349° 10' 130

G. E.

350° 45' 212

"

348° 45' 175

"

345° 10' 132

ditch

344° 10' 96

"

336° 10' 56

"

311° 25' 31

G. E.

338° 20' 94

"

325° 15' 60

"

299° — 38

End ditch + S. Line

271° 40' 28

Shore Line

172° 40' 37

" "

288° 35' 75

" "

154° 40' 95

" "

283° 30' 135

DIST. VERT. ROD April 16, 1956 8
 ANGLE EQUIV. ROD DIFF. ELEV.

+ 1° 28' +7.4 4.0 +3.4 88.4

+ 1° 13' +5.5 3.0 +2.5 89.5

7.0 90.0

8.1 88.9

6.1 90.9

8.3 88.7

5.0 92.0

8.5 88.5

9.6 87.4

8.7 88.3

8.1 88.9

9.3 87.7

6.6 90.4

9.1 87.9

9.1 87.9

9.1 87.9

9.1 87.9

9.1 87.9

OBJECT

AZ.

STADIA

996.98

Shore Line

281° 40' 204

" "

276° — 252

" "

268° 25' 300

" "

263° — 360

" "

263° 50' 430

G. E

148° 20' 88

"

149° 55' 65

"

154° 15' 40

"

287° — 8

"

347° 25' 47

"

353° — 96

Shore Line

268° — 470

G. E

303° 20' 81

"

317° 50' 106

"

314° 55' 120

"

301° 20' 135

"

335° 15' 145

"

292° 30' 175

DIST. VERT. ROD April 16, 1956 9
 ANGLE EQUIV. ROD DIFF. ELEV.

9.1 87.9

9.1 87.9

9.1 87.9

9.1 87.9

9.1 87.9

5.8 91.2

5.1 91.9

4.8 92.2

5.3 91.7

4.7 92.3

4.7 92.3

9.1 87.9

5.7 91.3

3.4 93.6

+ 1° 35' + 3.3 2.0 + 1.3 98.3

+ 0° 30' + 1.2 1.0 + 0.2 97.2

4.3 92.7

0.0 97.0

W. P. 1

OBJECT

252° 55'

AZ.

STADIA

996.98

Edge Pot Hole (outlet) 344° 30' 185

G E 289° 50' 222

" 344° 10' 233

" 281° 35' 267

" 274° 15' 315

Edge Pot Hole 332° 10' 232

G E 332° 10' 270

" 270° 10' 360

H. I. = 1000.59

Pat Δ "A"

to M. C 148° 50 1/2' 321

to Δ "B" 354° 55 1/2' 363

to Δ "C" 281° 03 1/2' 286

Edge Pot Hole 129° 25' 115

" " 143° 30' 150

" " 164° 40' 88

" " 157° 40' 170

April 16, 1956

April 16, 1956					10
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			8.3		88.7
	+ 0° 55'	+ 3.6	3.0	+ 0.6	97.6
			5.3		91.7
	+ 1° 45'	+ 8.1	4.0	+ 4.1	01.1
	+ 1° 45'	+ 9.6	3.9	+ 5.7	02.7
			8.4		88.6
			6.3		90.7
	+ 0° 48'	+ 5.0	6.0	- 1.0	96.0
			H.I. 5.21		995.38
			8.9		991.69
					<u>1025.13</u>
	+ 4° 21'	+ 27.40	3.0	+ 24.40	1024.99
	+ 1° 02'	+ 5.16	4.0	+ 1.16	1001.75
			12.0		88.6
			12.0		88.6
			12.0		88.6
			12.0		88.6

OBJECT

AZ.

STADIA

1000.59

Edge Pot Hole

185° 05' 110

" "

174° 10' 180

" "

193° 30' 95

" "

186° 15' 140

" "

221° 10' 76

" "

206° - 127

" "

242° 35' 105

" "

232° 50' 134

G. E.

213° 10' 168

" "

203° 15' 200

" "

195° 30' 174

" "

208° 30' 220

" "

178° 20' 195

" "

216° - 270

" "

220° 22' 258

" "

164° 25' 193

" "

154° - 188

" "

222° 20' 268

4-16-56

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

12.0

88.6

12.0

88.6

12.0

88.6

12.0

88.6

12.0

88.6

12.0

88.6

12.0

88.6

12.0

88.6

5.7

94.9

+ 0° 45' + 2.6

6.0

- 3.4

97.2

7.0

93.6

4.6

96.0

5.5

95.1

+ 1° - + 4.7

9.0

- 4.3

96.3

+ 0° 29' + 2.1

9.0

- 6.9

93.7

5.5

95.1

4.4

96.2

8.3

92.3

OBJECT

AZ.

STADIA

1000.59

G. E.

148° 30' 192

"

153° 30' 205

"

156° 30' 220

"

242° 50' 210

"

228° 25' 204

"

217° 30' 205

End ditch

249° 50' 83

Beg. ditch 18" wide

32° 50' 102

ditch

282° - 62

"

11° 20' 78

"

313° 40' 64

Int of ditch

339° 45' 75

ditch

337° 40' 99

"

335° - 132

"

333° 40' 155

G E

327° 50' 48

"

280° 30' 45

"

224° - 24

FX
LC
JM
CW

DIST.

VERT.
ANGLE

ROD
EQUIV.

April 16, 1956
April 17, 1956
Windy 30°

12
ELEV.

			6.6		94.0
			6.5		94.1
			7.1		93.5
			8.0		92.6
			9.2		91.4
			3.5		97.1
			10.6		90.0
			8.6		92.0
			10.0		90.6
			7.7		92.9
			9.3		91.3
			8.4		92.2
			8.2		92.4
	+ 1° 47'	+ 4.1	11.0	- 6.9	93.7
	+ 1° 05'	+ 2.9	11.0	- 8.1	92.5
			7.9		92.7
			8.5		92.1
			6.2		94.4

OBJECT

AZI

STADIA

1000.59

G.E.

180° 30' 48

"

10° 30' 39

"

48° 10' 61

"

124° 40' 49

"

62° 35' 98

"

100° 45' 78

"

76° 10' 87

"

48° 10' 137

"

35° 30' 122

"

30° 20' 155

"

17° 30' 107

"

18° — 143

"

357° 20' 104

"

0° 40' 145

"

350° 20' 150

"

340° — 111

"

340° 10' 160

"

333° 40' 200

April 17, 1956

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	13 ELEV.
-------	----------------	---------------	-----	-------	-------------

			8.8		91.8
--	--	--	-----	--	------

			5.2		95.4
--	--	--	-----	--	------

			6.0		94.6
--	--	--	-----	--	------

			9.7		90.9
--	--	--	-----	--	------

			4.2		96.4
--	--	--	-----	--	------

			10.1		90.5
--	--	--	------	--	------

			6.5		994.1
--	--	--	-----	--	-------

			0.3		1000.3
--	--	--	-----	--	--------

			7.0		93.6
--	--	--	-----	--	------

			4.4		96.2
--	--	--	-----	--	------

			6.6		94.0
--	--	--	-----	--	------

			2.7		97.9
--	--	--	-----	--	------

			5.6		95.0
--	--	--	-----	--	------

+	1° 40'	+ 4.2	2.0	+ 2.2	02.8
---	--------	-------	-----	-------	------

			1.7		98.9
--	--	--	-----	--	------

			5.5		95.1
--	--	--	-----	--	------

			6.0		94.6
--	--	--	-----	--	------

			7.1		93.5
--	--	--	-----	--	------

OBJECT

AZ.

STADIA

1000.59

G. E.

332° 20' 153

"

332° 45' 126

"

329° 50' 87

"

300° 40' 75

"

273° — 88

"

257° 35' 145

"

351° 50' 180

"

5° 35' 185

"

23° 30' 197

"

17° 15' 190

28° 10' 205

HI = 1006.92

A at "C"

to Δ "A"

101° 03½' 285

to Δ "D"

263° 14½' 524

to Δ "E" P.T.

320° 04½' 388

GE

106° — 158

"

89° 40' 164

APRIL 18, 1956 14

DIST.	VERT. ANGLE	ROD EQUIV	ROD	DIFF.	ELEV.
-------	-------------	-----------	-----	-------	-------

BAT 4.50

+	1° 54'	+5.1	11.0	-5.9	529 94.7
---	--------	------	------	------	-------------

+	1° 54'	+4.2	8.8	-4.6	96.0
---	--------	------	-----	------	------

			7.3		93.3
--	--	--	-----	--	------

			7.4		93.2
--	--	--	-----	--	------

			8.0		92.6
--	--	--	-----	--	------

			10.0		90.6
--	--	--	------	--	------

			1.3		99.3
--	--	--	-----	--	------

+	2° 03'	+6.6	2.0	+4.6	05.2
---	--------	------	-----	------	------

+	2° 03'	+7.1	10.7	-3.6	97.0
---	--------	------	------	------	------

+	1° 30'	+5.0	3.0	+2.0	02.6
---	--------	------	-----	------	------

+	1° 30'	+5.4	2.4	+3.0	03.6
---	--------	------	-----	------	------

Hi = 5.10

1001.75

~~9001.82~~

11.54

995.38

6.52

1000.40

6.46

1000.46

11.2

95.7

6.5

00.4

OBJECT

AZ.

STADIA

1006.92

G.E.	70° 50'	170
"	62° 30'	118
"	84° 50'	100
"	115° 50'	111
"	136° 45'	132
"	159° 30'	135
Shore Line	186° 20'	335
" "	189° -	300
" "	192° -	260
" "	188° -	218
" "	178° -	220
	169° 15'	232
G.E.	152° -	180
"	158° 10'	220
"	163° 40'	265
"	173° 30'	284
"	184° 40'	275
Shore Line	164° 20'	200

April 17, 1956

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			9.3		97.6
			9.1		97.8
			11.5		95.4
-	2° 25'	-4.7	10.0	-14.7	92.2
-	2° 25'	-5.6	10.4	-16.0	90.9
-	2° 25'	-5.7	11.0	-16.7	90.2
-	2° 25'	-14.1	5.1	-19.2	87.7
-	2° 25'	-12.6	6.4	-19.0	87.9
-	2° 25'	-10.9	8.3	-19.2	87.7
-	2° 25'	-9.2	10.1	-19.3	87.6
-	2° 25'	-9.3	9.1	-18.4	88.5
OK.	2° 45'	-11.1	8.0	-19.1	87.8
-	2° 25'	-7.6	7.3	-14.6	92.3
-	2° 25'	-9.3	8.6	-17.9	89.0
-	2° 25'	-11.2	6.1	-17.3	89.6
-	2° 25'	-12.0	4.9	-16.9	90.0
-	2° 25'	-11.6	2.8	-14.4	92.5
OK	2° 55'	-10.2	9.0	-19.2	87.7

OBJECT

AZ.

STADIA

1006.92

G. E.

160° 10' 116

"

169° - 80

"

198° - 55

"

242° - 52

"

264° 20' 78

"

270° 15' 122

Shore Line

170° 05' 156

" "

183° 50' 118

" "

207° 15' 90

" "

236° 25' 103

" "

256° 40' 140

" "

264° 45' 180

G. E.

276° 50' 155

"

283° 45' 190

"

283° 40' 240

S.E. Cor. Ho

60° 30' 42

S.W. " "

334° - 53

G. E.

136° 15' 53

DIST. VERT. ROD April 17, 1956 16
ANGLE EQUIV. ROD DIFF. ELEV.

- 2° 55' - 5.9 10.9 -16.8 90.1

- 4° 43' - 6.6 9.4 -16.0 90.9

- 4° 43' - 4.5 10.3 -14.8 92.1

- 4° 43' - 4.3 9.9 -14.2 92.7

- 4° 43' - 6.4 8.8 -15.2 91.7

- 4° 43' - 10.0 6.6 -16.6 90.3

OK - 2° 55' - 7.9 11.2 -19.1 87.8

- 4° 43' - 9.7 9.5 -19.2 87.7

- 4° 43' - 7.4 11.9 -19.3 87.6

- 4° 43' - 8.4 11.9 -20.3 86.6

- 4° 43' - 11.5 7.7 -19.2 87.7

- 4° 43' - 14.8 4.5 -19.3 87.6

- 3° 23' - 9.1 8.0 -17.1 89.8

- 3° 23' - 11.2 5.4 -16.6 90.3

- 2° 40' - 11.2 7.0 -18.2 88.7

4.3 02.6

6.5 00.4

11.1 95.8

OBJECT

AZI

STADIA

1006.92

G.E	206° 20'	20
"	26° —	28
"	105° —	17
"	285° 30'	64
"	294° 30'	115
"	319° 50'	92
"	296° 30'	170
"	315° 30'	152
"	296° 40'	220
"	310° 20'	210
"	295° 10'	265
"	310° 25'	250
"	332° 25'	106
"	328° 30'	160
"	327° 10'	210
"	325° 40'	247

DIST.	VERT. ANGLE	ROD EQUIV.	April 17, 1956 ROD	DIFF.	17 ELEV.
			8.9		98.0
			2.0		04.9
			4.4		02.5
	- 2° 45'	- 3.1	10.0	- 13.1	93.8
	- 2° 45'	- 5.5	8.9	- 14.4	92.5
			9.8		97.1
	- 2° 43'	- 8.1	7.0	- 15.1	91.8
			8.8		98.1
	- 2° 30'	- 9.6	6.0	- 15.6	91.3
	- 2° 30'	- 9.2	1.0	- 10.2	96.7
	- 2° 30'	- 11.6	5.0	- 16.6	90.3
	- 1° 23'	- 6.0	5.0	- 11.0	95.9
			7.7		99.2
			4.7		02.2
			3.3		03.6
			5.0		01.9

OBJECT

AZ.

STADIA

H.I. 1005.43

Lat Δ "D"to Δ "C" $83^{\circ}14\frac{1}{2}'$ 525

BM Spite in 30" Cottonwood

To Δ "E" $37^{\circ}01'$ to Δ F $259^{\circ}18'$ 448

Shore Line

 $80^{\circ}30'$ 290

" "

 $80^{\circ}50'$ 255

" "

 $183^{\circ}15'$ 83

" "

 $157^{\circ}20'$ 94

" "

 $78^{\circ}40'$ 209

" "

 $142^{\circ}25'$ 127

" "

 $69^{\circ}40'$ 183

" "

 $134^{\circ}-$ 152

" "

 $53^{\circ}10'$ 187

" "

 $128^{\circ}20'$ 188

" "

 $34^{\circ}20'$ 160

" "

 $125^{\circ}25'$ 220

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4-17-56		18
			H.I. 5.03		1000.40
			348		1001.95
					1001.82
		for H.I.	5.43		1000.00
			4.9		1000.53
			6.65		998.78
	- 1° 15'	- 6.3			
	- 1° 15'	- 5.6	12.0	-17.6	87.8
	- 6° 04'	- 8.7	9.0	-17.7	87.7
	- 6° 04'	- 9.9	7.8	-17.7	87.7
	- 4° —	- 14.5	3.3	-17.8	87.6
	- 4° —	- 8.8	9.0	-17.8	87.6
	- 4° —	- 12.7	5.1	-17.8	87.6
	- 4° —	- 10.6	7.1	-17.7	87.7
	- 4° —	- 13.0	4.8	-17.8	87.6
	- 4° —	- 13.1	5.0	-18.1	87.3
	- 4° —	- 11.1	6.6	-17.7	87.7
	- 4° —	- 15.3	2.7	-18.0	87.4

OBJECT

AZI

STADIA

1005.43

Shore Line

16° 10' 175

" "

119° — 270

" "

113° 25' 275

" "

2° 40' 217

" "

117° 50' 246

" "

350° 20' 244

" "

121° — 203

" "

340° 35' 205

" "

122° 22' 165

" "

342° 20' 147

" "

113° 05' 145

" "

5° 20' 110

" "

93° — 128

" "

78° 40' 113

" "

46° 40' 100

" "

243° 20' 272

" "

240° 30' 225

" "

234° 10' 171

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 4° -	-12.2	5.5	-17.7	87.7
	- 1° 15'	-5.9	11.8	-17.7	87.7
	- 1° 15'	-6.0	11.7	-17.7	87.7
	- 4° -	-15.1	2.2	-17.3	88.1
	- 4° -	-17.1	0.9	-18.0	87.4
	- 4° -	-17.0	0.7	-17.7	87.7
	- 4° -	-14.1	3.7	-17.8	87.6
	- 3° 01'	-10.8	7.0	-17.8	87.6
	- 3° 01'	-8.7	9.2	-17.9	87.5
	- 4° -	-10.2	7.7	-17.9	87.5
	- 4° -	-10.1	7.8	-17.8	87.6
	- 4° -	-7.7	10.2	-17.9	87.5
	- 4° -	-8.9	9.1	-18.0	87.4
	- 4° -	-7.9	10.0	-17.9	87.5
	- 4° -	-7.0	10.7	-17.7	87.7
	- 1° 41'	-8.0	9.0	-17.0	88.4
	- 1° 41'	-6.6	10.3	-16.9	88.5
	- 1° 41'	-5.0	12.2	-17.2	88.2

OBJECT

AZ.

STADIA

1005.43

Shore Line

220° 30' 115

G.E.

172° — 60

"

119° 40' 32

"

143° — 73

"

124° 15' 70

"

136° 30' 113

"

127° 10' 109

"

118° 20' 110

"

130° 30' 140

"

109° — 73

"

125° 50' 178

"

73° 10' 34

"

121° 30' 231

"

117° 50' 264

"

359° 40' 53

"

121° 15' 132

"

104° 20' 125

"

329° 50' 88

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	4-17-56 DIFF.	20 ELEV.
-	4° -	-8.0	9.7	-17.7	87.7
-	4° -	-4.2	8.7	-12.9	92.5
			6.0		99.4
			10.6		94.8
			7.2		98.2
			10.4		95.0
			8.5		96.9
			9.5		95.9
-	1° 15'	-3.1	10.6	-13.7	91.7
			8.8		96.6
-	4° -	-12.4	4.2	-16.6	88.8
			7.1		98.3
-	1° 15'	-5.0	10.8	-15.8	89.6
-	1° 15'	-5.8	10.9	-16.7	88.7
			5.7		99.7
-	4° -	-9.2	6.8	-16.0	89.4
-	4° -	-8.7	7.9	-16.6	88.8
			4.7		00.7

OBJECT

AZ.

STADIA

1005.43

G. E.

99° 10' 85

"

71° 50' 67

"

29° - 70

"

317° 40' 132

"

357° 30' 89

"

304° 50' 158

"

335° 30' 125

"

289° 10' 152

"

286° 30' 103

"

330° 50' 153

"

313° 20' 58

"

336° 15' 197

"

308° 50' 104

"

304° 20' 126

"

340° 45' 234

"

331° 40' 233

"

347° - 272

"

339° 25' 286

DIST.	VERT. ANGLE	ROD EQUIV.	4-17-56 ROD	DIFF.	21 ELEV.
-	4° -	-5.9	9.5	-15.4	90.0
-	4° -	-4.7	12.2	-16.9	88.5
-	4° -	-4.9	11.7	-16.6	88.8
+	1° 32'	+3.5	9.0	-5.5	99.9
-	4° -	-6.2	9.9	-16.1	89.3
+	2° 36'	+7.2	10.0	-2.8	02.6
-	2° 25'	-5.3	11.0	-16.3	89.1
			4.4		01.0
			4.4		01.0
-	2° 10'	-5.8	11.0	-16.8	88.6
			4.4		01.0
-	1° 46'	-6.1	11.0	-17.1	88.3
+	3° 12'	+5.8	2.0	+3.8	09.2
+	3° 12'	+7.0	2.3	+4.7	10.1
-	1° 15'	-5.1	10.5	-15.6	89.8
			11.0		94.4
-	1° 15'	-5.9	8.8	-14.7	90.7
			7.7		97.7

OBJECT

AZI

STADIA

1005.43

G. E.

354° 20' 285

"

346° 40' 316

"

1° 10' 253

"

357° 20' 310

"

4° 50' 244

"

10° 25' 270

"

12° 20' 210

"

27° 40' 248

"

21° 50' 187

"

42° 50' 250

"

34° 20' 187

"

55° — 272

"

50° 15' 197

"

72° 10' 280

"

72° 40' 195

"

76° 10' 230

"

57° 40' 312

"

77° 35' 260

DIST.	VERT. ANGLE	ROD EQUIV.	4-17-56 ROD	DIFF.	22 ELEV.
	- 1° 15'	- 6.2	8.2	-14.4	91.0
			5.5		99.9
	- 1° 15'	- 5.5	9.3	-14.8	90.6
			9.0		96.4
			11.7		93.7
			11.5		93.9
			12.5		92.9
			12.0		93.4
			12.7		92.7
			12.3		93.1
			13.0		92.4
			12.8		92.6
			13.3		92.1
			12.6		92.8
	- 1° 15'	- 4.3	10.0	-14.3	91.1
	- 1° 15'	- 5.0	8.6	-13.6	91.8
			12.6		92.8
			13.3		92.1

OBJECT

AZ.

STADIA

1005.43

G. E.

50° 30' 347

"

42° 50' 297

"

43° 30' 380

"

31° — 333

"

35° 25' 380

"

27° 40' 365

Shld. Rd.

27° 30' 386

G. E.

20° 35' 360

Shld. Rd

15° 05' 355

" "

4° 25' 340

G. E.

11° 50' 338

"

357° 45' 330

"

349° — 335

Shld. Rd

355° 10' 340

" "

340° 20' 360

G. E.

243° 15' 26

"

230° 40' 95

254° 30' 69

4-17-56 23

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

12.9

92.5

13.2

92.2

12.4

93.0

12.7

92.7

12.0

93.4

10.3

95.1

7.0

98.4

9.6

95.8

7.3

98.1

6.4

99.0

8.4

97.0

4.0

01.4

3.3

02.1

5.8

99.6

6.9

98.5

6.5

98.9

12.4

93.0

9.8

95.6

OBJECT

AZI

STADIA

1005.43

GE.	243° 15'	160
"	258° 25'	125
"	247° 10'	215
"	258° 30'	168
"	259° -	197
"	250° 35'	275
"	258° 50'	233
"	252° 25'	335
"	260° 20'	270
"	266° 10'	280
"	275° -	287
"	266° 50'	250
"	275° 10'	226
"	267° 45'	210
"	267° 30'	168
"	35° 10'	15

4-17-56 24

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

12.0

93.4

10.5

94.9

6.7

98.7

- 1° 15' - 3.7

10.0

-13.7

91.7

- 1° 15' - 4.3

11.8

-16.1

89.3

5.7

99.7

10.1

95.3

10.6

94.8

1.3

04.1

5.0

00.4

- 0° 55' - 4.6

9.0

-13.6

91.8

- 0° 55' - 4.0

6.2

-10.2

95.2

- 0° 55' - 3.6

9.9

-13.5

91.9

- 0° 55' - 3.4

11.1

-14.5

90.9

- 0° 53' - 2.6

10.0

-12.6

92.8

4.6

00.8

OBJECT

AZ.

STADIA

$$HI = 1004.03$$

 $\bar{A}$ at $A^{\vee}F$
To Δ "D"

79° 18' 448

Chk. Δ Flag pole

176° 00½'

to Δ "G"

333° 35' 340

S.E. Cor. Ho.

259° 40' 295

N.E. " "

265° 20' 306

Shore line

249° 50' 235

" "

253° 30' 193

" "

258° 30' 145

" "

174° 40' 36

" "

118° 05' 84

" " & End of ditch

251° - 105

" "

108° 15' 134

" "

245° 50' 74

" "

102° 15' 192

" "

235° 50' 51

" "

96° 30' 253

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4-19-56	25	
		Hi.	5.25		998.78
			3.62		1000.40
	+1°35'	+9.39	3.00	+6.39	1010.42
-	1°16'	-6.5	0.4	-6.9	97.1
-	1°16'	-6.8	1.0	-7.8	96.2
-	1°16'	-5.2	11.2	-16.4	87.6
-	1°16'	-4.3	12.0	-16.3	87.7
-	2°55'	-7.4	9.0	-16.4	87.6
-	9°10'	-5.7	12.0	-17.7	86.3
-	9°10'	-13.2	3.2	-16.4	87.6
-	7°20'	-13.3	3.0	-16.3	87.7
-	4°25'	-10.3	6.0	-16.3	87.7
-	4°25'	-5.7	10.2	-15.9	88.1
-	3°05'	-10.3	6.0	-16.3	87.7
-	13°14'	-11.4	5.0	-16.4	87.6
-	1°29'	-6.6	10.0	-16.6	87.4

OBJECT

AZ.

STADIA

1004.03

ditch	2' wide	267° 45'	92
"	Int. sect.	280° 45'	86
"		292° 25'	107
"		302° 40'	154
"		309° 20'	183
"		311° —	220
"		314° —	228
"		305° 20'	80
"		312° 20'	248
"		341° 10'	93
"		313° 25'	270
End of ditch		11° 30'	140
ditch		4° —	100
"		312° 50'	328
G. E.		92° 30'	225
"		80° 20'	152
"		99° 20'	165
"		80° 40'	112

DIST.	VERT. ANGLE	ROD EQUIV.	4-19-56		26
			ROD	DIFF.	ELEV.
-	4° 26'	-7.1	9.3	-16.4	87.6
-	4° 26'	-6.6	9.6	-16.2	87.8
-	4° 26'	-8.2	9.1	-15.3	88.7
-	4° 26'	-11.9	3.2	-15.1	88.9
-	1° 16'	-4.0	10.4	-14.4	89.6
-	1° 16'	-4.9	9.1	-14.0	90.0
-	1° 16'	-5.0	9.0	-14.0	90.0
-	4° 26'	-6.2	9.8	-16.0	88.0
-	1° 16'	-5.5	7.6	-13.1	90.9
-	4° 26'	-7.2	8.7	-15.9	88.1
			12.0		92.0
-	2° 27'	-6.0	10.0	-16.0	88.0
-	2° 27'	-4.3	11.4	-15.7	88.3
			10.5		93.5
			3.8		00.2
			0.9		03.1
			9.4		94.6
			4.4		99.6

OBJECT

AZ.

STADIA

1004.03

G.E.

106° 40' 100

"

75° - 62

"

103° 45' 41

"

43° 35' 47

"

291° - 12

"

349° 30' 37

"

266° 20' 87

"

300° 45' 63

"

265° 30' 129

"

286° 30' 111

"

263° 50' 182

"

282° 30' 153

"

263° 30' 232

"

277° 50' 190

"

273° 30' 238

Edge pot Hole

19° 50' 150

"

"

"

24° 45' 172

"

"

"

40° - 192

4-19-56

27

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			11.4		92.6
			10.2		93.8
			10.0		94.0
			11.9		92.1
			5.3		98.7
-	1° 16'	-0.8	11.7	-12.5	91.5
-	4° 26'	-6.7	9.0	-15.7	88.3
-	4° 26'	-4.9	10.0	-14.9	89.1
-	4° 26'	-9.9	3.9	-13.8	90.2
			12.3		91.7
-	1° 16'	-4.0	9.8	-13.8	90.2
			4.6		99.4
-	1° 16'	-5.1	8.8	-13.9	90.1
			6.8		97.2
			10.3		93.7
-	1° 16'	-3.3	12.2	-15.5	88.5
-	2° 18'	-6.9	9.8	-16.7	87.3
-	2° 52'	-9.6	6.0	-15.6	88.4

OBJECT

AZ.

STADIA

1004.03

G.E.

44° 45' 124

"

27° 25' 95

"

56° — 158

"

61° 20' 198

Edge Pot Hole

53° 20' 210

" " "

60° 15' 277

" " "

48° 25' 295

" " "

42° 25' 277

" " "

37° 05' 205

" " "

32° 50' 191

" " "

17° — 192

" " "

9° 05' 167

G.E.

293° 20' 224

"

303° 15' 235

"

303° 10' 180

"

316° 40' 213

"

322° 30' 155

"

327° 50' 213

Dist	Vert	Rod	4-19-56		28
	Angle	Equip	Rod	Diff	Elev
			9.5		94.5
-	4° 26'	-7.3	5.7	-13.0	91.0
			7.8		96.2
			9.6		94.4
-	1° 16'	-4.6	10.7	-15.3	88.7
-	1° 16'	-6.1	9.2	-15.3	88.7
-	1° 16'	-6.5	8.9	-15.4	88.6
-	1° 16'	-6.1	9.5	-15.6	88.4
-	1° 16'	-4.5	11.2	-15.7	88.3
-	4° 26'	-14.7	0.9	-15.6	88.4
-	4° 26'	-14.6	0.9	-15.5	88.5
-	1° 16'	-3.7	11.7	-15.4	88.6
			1.9		02.1
			10.0		94.0
			12.1		91.9
			12.5		91.5
			11.7		92.3
-	1° 16'	-4.7	9.3	-14.0	90.0

Object

AZ. Stadia

1004.03

G.E.

349° 50' 152

"

340° 40' 232

"

355° — 207

"

349° 25' 260

"

5° 30' 244

"

356° 25' 274

"

10° 30' 260

"

5° 50' 305

"

22° — 280

"

10° 30' 352

"

15° — 307

"

35° — 302

"

46° 20' 333

"

40° — 350

"

45° 25' 355

"

40° — 428

"

50° 45' 354

"

43° 35' 455

		Vert.	Rod	April 19, 1956	29
Dist	Angle	Equiv	Rod	Diff	Elev
			8.1		95.9
			9.6		94.4
			4.0		00.0
			+ 0.5		04.5
			5.2		98.8
	+ 1° 51'	+ 8.9	3.0	+ 5.9	09.9
			6.6		97.4
	+ 1° 51'	+ 9.9	8.0	+ 1.9	05.9
			1.4		02.6
	+ 1° 37'	+ 9.9	6.0	+ 3.9	07.9
	+ 1° 37'	+ 8.7	10.5	- 1.8	02.2
			9.7		94.3
			13.5		90.5
			11.6		92.4
			13.4		90.6
			10.5		93.5
	- 1° 26'	- 8.9	3.0	- 11.9	92.1
	- 0° 51'	- 6.7	3.0	- 9.7	94.3

Object

AZ. station

1004.03

G.E.

48° 15' 412

H.I. = 1015.73

At Δ "G"

To Δ "F"

153° 35' 342

B.M. spk in P.P. (2 Y. wires)

To Δ "H"

43° 47½' 173

ditch 2' wide

239° 15' 160

"

258° 30' 167

S. End 24" C.M. culv.

273° 30' 183

N. " " "

281° 47' 200

¢ Rd.

277° 35' 196

G.E.

260° — 208

"

267° 45' 193

"

253° 50' 174

"

242° 45' 190

"

239° 40' 171

Vert Rod 4-19-56 30
Dist Angle Equiv Rod Diff Eleu

- 0° 51' -6.1 4.6 -10.7 93.3

Hi = 5.15 1010.42
- 1° 33' -9.22 8.0 -17.22 1010.58
998.51
998.78
9.53 1006.20
9.64 1006.09

- 5° 22' -14.9 8.0 -22.9 92.8

- 5° 26' -15.7 8.0 -23.7 92.0

- 5° 26' -17.3 6.15 F.L. -23.45 92.28

- 3° 47' -13.2 10.0 F.L. -23.20 92.53

- 3° 18' -11.3 5.0 -16.3 99.4

- 3° 19' -12.0 6.0 -18.0 97.7

- 3° 57' -13.3 8.0 -21.3 94.4

- 3° 57' -12.0 8.1 -20.1 95.6

- 2° 32' -8.4 8.0 -16.4 99.3

- 3° 05' -9.2 9.0 -18.2 97.5

Object

AZ Stadia

1015.73

G.E.	220° 05'	195
"	217° 50'	147
"	201° 30'	200
"	195° 05'	180
"	204° -	120
"	175° 50'	104
"	225° 30'	108
"	188° 50'	70
"	239° 10'	152
"	234° 15'	36
"	262° -	163
"	266° -	70
"	250° 50'	154
"	289° 30'	87
"	273° 55'	180
"	305° 50'	98
"	307° 25'	43
"	338° 15'	84

re + Rod 4-19-56 31
Dist Angle Equiv Rod Diff Elev.

			7.3		08.4
			11.3		04.4
- 2° 23'	- 8.3	9.0	- 17.3		98.4
- 4° 18'	- 13.5	9.0	- 22.5		93.2
- 6° 14'	- 12.9	7.0	- 19.9		95.8
- 6° 14'	- 11.2	11.9	- 23.1		92.6
		12.7			03.0
- 4° 05'	- 5.0	11.0	- 16.0		99.7
- 4° 05'	- 10.8	6.7	- 17.5		98.2
		8.1			07.6
- 3° 58'	- 11.2	10.0	- 21.2		94.5
- 3° 58'	- 4.8	9.6	- 14.4		01.3
- 5° 07'	- 13.7	7.0	- 20.7		95.0
- 5° 07'	- 7.7	4.9	- 12.6		03.1
- 4° 33'	- 14.2	7.0	- 21.2		94.5
		10.8			04.9
		9.7			06.0
		9.5			06.2

Object

A Z. Stadra

1015.73

G. E.

22° 30' 50

"

7° 45' 87

"

56° 20' 94

"

31° 30' 109

"

67° — 140

"

50° 45' 155

"

67° 50' 197

"

60° 20' 206

"

73° 30' 243

"

65° 45' 243

"

164° — 30

"

0° 00' 20

"

114° 30' 75

"

53° 50' 47

"

115° 50' 130

"

74° 45' 90

"

115° 40' 180

"

91° 45' 118

Vert Rod 4-19-56 32

Dist Angle Equiv Rod Diff Elev

8.6 07.1

8.7 07.0

6.5 09.2

7.5 08.2

7.1 08.6

7.4 08.3

11.9 03.8

8.0 07.7

12.2 03.5

9.4 06.3

10.1 05.6

4.4 11.3

9.3 06.4

4.1 11.6

11.5 04.2

2.2 13.5

- 1° 48' - 5.7 11.0 - 16.7 99.0

+ 1° 55' + 3.9 9.0 - 5.1 10.6

Object AZ Stadia

1015.73

G.E. 97° 10' 165

" 108° 15' 113

" 104° 45' 67

1029.94

H.I. = ~~1029.85~~

π at Δ "B"

to Δ "A" 174° 55' 360

B.M. spk. in Tree at H₀ 309

to Δ "E" 269° 16' 498

G.E. 150° 20' 24

" 101° 40' 23

" 354° 15' 15

" 293° 45' 19

" 240° — 13

" 181° 20' 14

" 151° 10' 17

" 149° — 74

" 121° 30' 79

4-19-56

33

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			9.1		06.6
			6.8		08.9
			6.0		09.7
					1024.99
					924.90
		HI = 4.95			
		29.8		- 34.8	995.14
- 4° 46'	-29.7	5.0	-34.7		995.38
					1004.54
- 2° 52'	-13.40	10.0	-25.40		1005.23
					999.94
- 2° 46'	-24.00	6.0	-30.00		1000.53
			6.3		23.6
			6.9		23.0
			6.6		23.3
			7.3		22.6
			6.7		23.2
			6.0		23.9
			5.1		24.8
- 5° 10'	-6.6	8.8	-15.4		14.5
- 8° 38'	-11.7	6.1	-17.8		12.1

OBJECT

AZ.

STADIA

1029.94

G. E.

149° 50' 90

"

122° 50' 100

"

79° 15' 49

"

86° 10' 85

"

34° 30' 47

"

46° 50' 74

"

6° — 90

"

7° — 56

"

329° 20' 95

"

311° 30' 60

"

293° 10' 94

"

270° 50' 67

"

270° 30' 103

"

232° — 61

"

241° 30' 107

"

208° 50' 99

"

180° 10' 54

"

176° 20' 107

DIST.	VERT. ANGLE	ROD EQUIV.	4-19-56 ROD	DIFF.	34 ELEV.
	- 8° 38'	- 13.4	11.0	- 24.4	05.5
	- 8° 20'	- 14.3	11.0	- 25.3	04.6
	- 8° 20'	- 7.0	8.5	- 15.5	14.4
	- 9° 02'	- 13.2	11.0	- 24.2	05.7
	- 9° 02'	- 7.3	9.5	- 16.8	13.1
	- 15° 15'	- 18.8	6.0	- 24.8	05.1
	- 15° 15'	- 22.8	4.5	- 27.3	02.6
	- 8° 57'	- 8.6	8.0	- 16.6	13.3
	- 9° 23'	- 15.3	11.0	- 26.3	03.6
	- 9° 23'	- 9.7	6.1	- 15.8	14.1
	- 9° 11'	- 14.8	10.0	- 24.8	05.1
	- 9° 11'	- 10.6	7.4	- 18.0	11.9
	- 11° 55'	- 20.8	7.0	- 27.8	02.1
	- 11° 55'	- 12.3	7.8	- 20.1	09.8
	- 12° 38'	- 22.8	8.0	- 30.8	99.1
	- 12° 38'	- 21.1	9.2	- 30.3	99.6
	- 5° 10'	- 4.8	11.9	- 16.7	13.2
	- 11° 15'	- 20.5	9.0	- 29.5	00.4

OBJECT

AZ.

STADIA

1029.94

G. E.	121° -	191
"	124° -	154
"	111° 20'	137
"	109° 40'	170
"	95° 10'	133
"	96° -	168
"	75° 30'	135
"	82° 30'	168
"	62° 10'	150
"	70° 35'	175
"	47° 20'	166
"	58° 40'	193
"	34° 20'	130
"	14° 10'	112
"	54° 10'	103
"	7° 40'	95
"	5° -	110
"	346° 10'	96

7-17-56 35

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

- 4° 54'	-16.3	6.0	-22.3	07.6
- 8° 05'	-21.4	7.0	-28.4	01.5
- 8° 05'	-19.1	7.7	-26.8	03.1
- 5° 55'	-17.4	6.0	-23.4	06.5
- 7° 10'	-16.5	11.0	-27.5	02.4
- 7° 10'	-20.8	5.6	-26.4	03.5
- 10° 33'	-24.3	5.0	-29.3	00.6
- 7° 32'	-21.8	6.0	-27.8	02.1
- 7° 32'	-19.5	10.9	-30.4	99.5
- 6° 16'	-19.0	9.0	-28.0	01.9
- 8° 03'	-23.0	8.0	-31.0	98.9
- 8° 03'	-26.8	0.6	-27.4	02.5
- 9° 20'	-20.8	9.0	-29.8	00.1
- 9° 20'	-17.9	11.1	-29.0	00.9
- 11° 50'	-20.7	8.0	-28.7	01.2
- 12° 46'	-20.5	8.0	-28.5	01.4
- 12° 46'	-23.7	3.4	-27.1	02.8
- 11° 15'	-18.4	9.0	-27.4	02.5

OBJECT

AZ.

STADIA

1029.94

G. E.

345° 50' 115

"

322° 45' 115

"

329° — 127

"

171° 25' 175

"

163° 40' 163

"

152° 30' 188

"

143° 20' 155

"

163° — 130

"

181° 35' 150

"

198° 15' 154

ditch

202° 45' 174

"

214° 55' 165

"

227° 55' 157

"

244° 15' 156

So.
End of G. M. Culv. 10"

258° 35' 154

G. E.

250° 40' 128

"

237° 35' 131

"

221° — 130

DIST.	VERTI ANGLE	ROD EQUIV.	4-23-52 ROD	DIFF.	36 ELEV.
	- 11° 15'	- 22.0	6.4	- 28.4	01.5
	- 9° 33'	- 18.8	10.0	- 28.8	01.1
	- 9° 33'	- 20.8	7.9	- 28.7	01.2
	- 7° 45'	- 23.4	3.0	- 26.4	03.5
	- 7° 45'	- 21.8	3.3	- 25.1	04.8
	- 5° 30'	- 17.9	9.0	- 26.9	03.0
	- 8° 40'	- 23.1	9.0	- 32.1	97.8
	- 8° 40'	- 19.4	9.8	- 29.2	00.7
	- 9° 02'	- 23.3	10.0	- 33.3	96.6
	- 10° 44'	- 28.2	8.0	- 36.2	93.7
	- 10° 44'	- 31.8	5.2	- 37.0	92.9
	- 9° 57'	- 28.1	9.0	- 37.1	92.8
	- 9° 57'	- 26.7	10.0	- 36.7	93.2
	- 10° —	- 26.7	10.0	- 36.7	93.2
	- 10° —	- 26.3	9.5	- 35.8	94.1
	- 10° 21'	- 22.6	11.0	- 33.6	96.3
	- 10° 21'	- 23.2	11.1	- 34.3	95.6
	- 10° 35'	- 23.5	11.0	- 34.5	95.4

OBJECT

AZ.

STADIA

1029.94

G.E.		200° 40'	117
☼ Rd. at Ent.		340° 30'	153
☼ Ent.	10' wide	326° —	130
"		303° 50'	114
"		283° 10'	118
"		266° 10'	147
"		254° 30'	190
"		242° 45'	212
"		229° —	230
"		220° 50'	263
"		223° 50'	302
"		231° 10'	320
"		238° 40'	330
"		250° —	315
"		259° 20'	310
"		268° 10'	327
☼ Rd. at Ent		276° 40'	358
GE		247° —	177

DIST.	VERT. ANGLE	ROD EQUIV.	4-23-56 ROD	DIFF.	57 ELEV.
-	10° 35'	- 21.1	12.2	- 33.3	96.6
-	7° 24'	- 19.5	9.0	- 28.5	01.4
-	7° 24'	- 16.6	12.2	- 28.8	01.1
-	8° 50'	- 17.3	10.0	- 27.3	02.6
-	8° 50'	- 17.9	10.9	- 28.8	01.1
-	9° 50'	- 24.7	10.0	- 34.7	95.2
-	9° 50'	- 32.0	4.2	- 36.2	93.7
-	7° 13'	- 26.4	6.0	- 32.4	97.5
-	7° 13'	- 28.7	2.9	- 31.6	98.3
-	4° 39'	- 21.3	9.0	- 30.3	99.6
-	4° 39'	- 24.4	1.7	- 26.1	03.8
-	3° 50'	- 21.3	6.0	- 27.3	02.6
-	4° 03'	- 23.3	6.0	- 29.3	00.6
-	4° 03'	- 22.2	7.3	- 29.5	00.4
-	4° 16'	- 23.0	6.0	- 29.0	00.9
-	4° 16'	- 24.3	4.6	- 28.9	01.0
-	3° 28'	- 21.6	6.0	- 27.6	02.3
-	8° 55'	- 27.1	9.0	- 36.1	93.8

OBJECT

AZ.

STADIA

1029.94

G.E.	234° 35'	180
"	223° -	193
"	211° 15'	225
"	204° 05'	246
"	195° 50'	273
"	212° 20'	270
"	217° 25'	308
N.E. Cor. Ho	220° 39'	313
G.E.	215° 30'	340
N. End 10" C. M. Culv.	318° 50'	147
G.E.	324° 10'	133
"	311° 40'	160
"	304° 40'	187
"	299° 50'	214
"	294° -	256
"	287° -	285
"	281° 35'	302
"	274° 55'	330

DIST.	VERT. ANGLE	ROD EQUIV.	4-23-36 ROD	38 DIFF.	ELEV.
-	8° 55'	-27.6	7.6	-35.2	94.7
-	8° 04'	-26.8	7.0	-33.8	96.1
-	8° 04'	-31.3	2.5	-33.8	96.1
-	6° 20'	-27.0	7.0	-34.0	95.9
-	4° 33'	-21.6	10.0	-31.6	98.3
-	5° 10'	-24.2	8.0	-32.2	97.7
-	5° 10'	-27.6	0.7	-28.3	01.6
-	2° 47'	-15.2	10.0	-25.2	04.7
-	2° 47'	-16.5	12.7	-29.2	00.7
-	8° 40'	-21.9	10.0	-31.9	98.0
-	8° 30'	-19.4	9.0	-28.4	01.5
-	6° 56'	-19.2	11.0	-30.2	99.7
-	6° 56'	-22.4	6.1	-28.5	01.4
-	5° 45'	-21.3	8.0	-29.3	00.6
-	5° 45'	-25.5	1.7	-27.2	02.7
-	3° 04'	-15.2	8.0	-23.2	06.7
-	3° 29'	-18.3	6.0	-24.3	05.6
-	3° 29'	-20.0	8.0	-28.0	01.9

OBJECT

AZ.

STADIA

1029.94

G. E.

268° 20' 314

" 271° — 280

" 273° 50' 253

" 283° 20' 230

" 284° 10' 191

" 289° 10' 152

" 300° 25' 130

" 277° 40' 135

" 275° 50' 166

" 272° — 205

" 269° 15' 234

" 266° 30' 273

" 263° 45' 293

" 253° 40' 295

" 258° 20' 267

" 259° 25' 234

" 254° 45' 200

" 243° 55' 224

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-	3° 36'	-19.7	9.0	-28.7	01.2
-	3° 36'	-17.6	10.5	-28.1	01.8
-	4° 46'	-20.9	6.0	-26.9	03.0
-	4° 46'	-19.0	3.2	-22.2	07.7
-	4° 46'	-15.8	9.1	-24.9	05.0
-	6° 45'	-17.7	9.0	-26.7	03.2
-	8° 23'	-18.8	10.0	-28.8	01.1
-	8° 23'	-19.5	11.7	-31.2	98.7
-	6° 49'	-19.6	10.0	-29.6	00.3
-	6° 49'	-24.2	4.3	-28.5	01.4
-	4° 34'	-18.6	10.0	-28.6	01.3
-	4° 34'	-21.7	7.8	-29.5	00.4
-	4° 07'	-21.0	9.0	-30.0	99.9
-	4° 07'	-21.1	8.0	-29.1	00.8
-	4° 46'	-22.1	9.0	-31.1	98.8
-	4° 46'	-19.4	12.2	-31.6	98.3
-	7° 40'	-26.4	7.0	-33.4	96.5
-	7° 40'	-29.6	2.8	-32.4	97.5

OBJECT	AZI	STADIA
	1029.94	
N.E. Cor. Bldg.	245° 50'	237
N.W. " "	249° 55'	260
S.E. " "	239° 05'	266
G.E.	228° 40'	260
"	233° 50'	287
"	239° -	310
"	231° 20'	308
"	231° 50'	355
"	238° 25'	362
ditch	55° 45'	202
"	64° 40'	190
"	77° 25'	174
"	91° 45'	175
"	107° -	187
shld. Rd.	106° 40'	193
"	95° 20'	187
"	82° 20'	185
"	70° 10'	196

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 4° 55'	-20.2	10.0	-30.2	99.7
	- 4° 55'	-22.2	8.0	-30.2	99.7
	- 4° 26'	-20.5	9.0	-29.5	00.4
	- 4° 26'	-20.0	9.7	-29.7	00.2
	- 4° 03'	-20.2	8.0	-28.2	01.7
	- 4° 03'	-21.9	8.0	-29.9	00.0
	- 4° 09'	-22.2	4.7	-26.9	03.0
	- 3° 58'	-24.5	6.0	-30.5	99.4
	- 3° 58'	-25.0	5.3	-30.3	99.6
	- 4° 57'	-17.4	10.0	-27.4	02.5
	- 4° 57'	-16.3	10.8	-27.1	02.8
	- 5° 51'	-17.6	10.0	-27.6	02.3
	- 5° 51'	-17.7	9.9	-27.6	02.3
	- 5° 51'	-19.0	9.0	-28.0	01.9
	- 4° 50'	-16.2	9.0	-25.2	04.7
	- 4° 50'	-15.7	9.1	-24.8	05.1
	- 5° 05'	-16.3	8.0	-24.3	05.6
	- 5° 05'	-17.3	6.6	-23.9	06.0

OBJECT

AZ.

STADIA

1029.94

3/16. PL.

56° 20' 213

11

52° 40' 208

11

44° 25' 187

11

34° 20' 161

11

12° 30' 135

11

355° 40' 133

11

340° 45' 140

11

329° 50' 153

11

317° 20' 175

11

309° 05' 202

11

302° 50' 229

11

294° 40' 270

11

287° 50' 293

11

281° 40' 320

11

276° 40' 335

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 4° 51'	-18.0	6.0	-24.0	05.9
	- 4° 51'	-17.5	7.8	-25.3	04.6
	- 6° 31'	-21.1	7.0	-28.1	01.8
	- 6° 31'	-18.2	11.3	-29.5	00.4
	- 8° 16'	-19.2	10.0	-29.2	00.7
	- 8° 16'	-18.9	10.2	-29.1	00.8
	- 8° 18'	-20.0	9.0	-29.0	00.9
	- 8° 18'	-21.8	7.1	-28.9	01.0
	- 5° 54'	-17.9	11.0	-28.9	01.0
	- 5° 54'	-20.6	7.7	-28.3	01.6
	- 5° 40'	-22.5	6.0	-28.5	01.4
	- 5° 40'	-26.5	1.2	-27.7	02.2
	- 3° 29'	-17.8	8.0	-25.8	04.1
	- 3° 29'	-19.4	6.8	-26.2	03.7
	- 3° 28'	-20.2	7.0	-27.2	02.7

OBJECT

AZ.

STADIA

$$HI = 1005.72$$

T at A "E"

$$Hi = 1005.72$$

to A "B"

$$89^{\circ} 16\frac{1}{2}'$$

499

To A "C"

$$140^{\circ} 04\frac{1}{2}'$$

388

B. M. Top S. End 10" V. & Drain

$$184^{\circ} 10'$$

29

To A "H"

$$268^{\circ} 55'$$

747

G. E.

$$206^{\circ} -$$

27

"

$$186^{\circ} 15'$$

55

"

$$181^{\circ} 50'$$

8.2

"

$$178^{\circ} 30'$$

130

"

$$177^{\circ} 35'$$

170

"

$$154^{\circ} 20'$$

165

"

$$168^{\circ} 20'$$

203

"

$$165^{\circ} 15'$$

160

"

$$160^{\circ} -$$

98

"

$$133^{\circ} 45'$$

100

$$140^{\circ} -$$

74

4-23-56 42

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

		Hi =	5.24		1000.46
					1024.99
+	2° 40'	+23.10	4.0	+19.1	1024.82
			3.80		1001.92
					1001.82
			10.10		995.62
					1006.09
		+ 0.45			1006.17

			5.7		00.0
			12.2		93.5
-	1° 56'	-2.8	10.0	-12.8	92.9
-	1° 56'	-4.4	9.4	-13.8	91.9
-	1° 37'	-4.8	10.0	-14.8	90.9
			9.1		96.6
-	1° 23'	-4.9	10.0	-14.9	90.8
-	1° 23'	-3.9	7.9	-11.8	93.9
			9.5		96.2
			4.4		01.3
			6.5		99.2

OBJECT

AZ.

STADIA

1005.72

G. E.

163° 35' 26

"

171° 20' 54

"

116° — 46

"

102° 30' 80

"

95° 20' 108

"

83° 10' 154

"

98° — 173

"

105° 40' 140

"

119° 40' 115

"

132° 20' 133

"

125° 40' 175

"

122° 10' 220

"

129° — 250

ditch

95° — 85

"

88° — 115

"

82° — 147

Sh/L. Rd.

78° 20' 146

"

84° — 114

4-23-56

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

5.7

00.0

8.0

97.7

6.5

99.2

4.2

01.5

1.4

04.3

3.9

01.8

4.6

01.1

+ 1° 45' + 4.3

4.0

+ 0.3

06.0

3.7

02.0

5.1

00.6

0.9

04.8

+ 0° 31' + 2.0

2.0

- 5.0

00.7

4.4

01.3

5.1

00.6

4.6

01.1

4.5

01.2

3.2

02.5

3.4

02.3

OBJECT

AZ.

STADIA

1005.72

Sh/d. Rd.

92° 40' 75

"

106° 15' 37

"

177° — 15

"

63° 40' 347

"

61° 50' 307

"

61° 30' 215

"

60° 20' 260

"

63° 50' 188

"

66° 45' 153

"

71° — 115

"

73° 20' 86

"

73° 50' 38

"

301° 45' 12

"

276° 30' 47

"

272° 50' 86

"

272° — 125

"

271° — 176

"

270° 25' 215

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4.1		01.6
			5.2		00.5
			5.2		00.5
			2.9		02.8
			2.5		03.2
			0.6		05.1
			1.4		04.3
			1.9		03.8
			3.3		02.4
			3.5		02.2
			4.1		01.6
			5.1		00.6
			5.4		00.3
			5.7		00.0
			6.7		99.0
			7.4		98.3
			7.1		98.6
			6.9		98.8

OBJECT

AZ.

STADIA

1005.72

Sh/d. Rd

270° 25' 254

"

270° 10' 295

"

270° — 333

"

270° — 372

"

270° — 402

"

269° 45' 453

"

269° 35' 490

"

269° 40' 530

"

269° 40' 572

"

269° 30' 612

"

269° 20' 652

"

269° 15' 697

"

267° 30' 745

"

267° 30' 707

"

267° 30' 670

"

267° 30' 630

"

267° 30' 592

"

267° 35' 554

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
				4-23-56	45
			6.4		99.3
			5.8		99.9
			6.2		99.5
			6.9		98.8
			7.1		98.6
			7.2		98.5
			7.6		98.1
			7.4		98.3
			6.3		99.4
			4.4		01.3
			2.0		03.7
			+ 0.3		06.0
			+ 0.5		06.2
			+ 0.5		06.2
			0.7		05.0
			3.1		02.6
			5.2		00.5
			6.9		98.8

OBJECT

AZ.

STADIA

1005.72

Sh/d. Rd

267° 30' 513

" 267° 15' 474

" 267° 10' 432

" 266° 45' 390

" 266° 25' 352

" 266° — 313

" 265° 45' 280

" 265° 25' 244

" 265° — 206

" 264° 10' 165

" 262° 35' 127

" 260° — 90

" 255° 50' 64

E Ent. 10' wide 277° 10' 160

" 290° — 154

" 300° 40' 157

" 312° 45' 172

" 324° — 197

4-23-56 46

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

			7.9		97.8
--	--	--	-----	--	------

			7.6		98.1
--	--	--	-----	--	------

			7.3		98.4
--	--	--	-----	--	------

			7.2		98.5
--	--	--	-----	--	------

			6.4		99.3
--	--	--	-----	--	------

			6.0		99.7
--	--	--	-----	--	------

			6.4		99.3
--	--	--	-----	--	------

			6.8		98.8
--	--	--	-----	--	------

			7.3		98.4
--	--	--	-----	--	------

			7.7		98.0
--	--	--	-----	--	------

			7.7		98.0
--	--	--	-----	--	------

			7.2		98.5
--	--	--	-----	--	------

			6.7		99.0
--	--	--	-----	--	------

			6.3		99.4
--	--	--	-----	--	------

+ 2° 45'	+ 7.4	8.0	- 0.6	05.1
----------	-------	-----	-------	------

+ 2° 45'	+ 7.5	4.7	+ 2.8	08.5
----------	-------	-----	-------	------

+ 2° 47'	+ 8.3	6.0	+ 2.3	08.0
----------	-------	-----	-------	------

+ 2° 47'	+ 9.6	9.4	+ 0.2	05.9
----------	-------	-----	-------	------

OBJECT

AZI.

STADIA

1005.72

E Ent

337° 10' 204

"

348° — 174

"

357° 30' 160

"

10° 15' 150

"

23° 40' 133

"

38° 20' 127

"

57° 15' 127

"

66° 20' 134

G.E.

66° 20' 97

"

58° — 66

"

32° — 36

"

311° 40' 27

"

288° 30' 54

"

281° 15' 90

"

279° 30' 122

"

277° 50' 150

"

288° 25' 147

"

294° 30' 114

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

2.8

02.9

4.2

01.5

4.6

01.1

4.8

00.9

4.8

00.9

4.9

00.8

4.2

01.5

3.6

02.1

2.0

03.7

4.3

01.4

6.9

98.8

3.1

02.6

0.4

05.3

1.4

04.3

3.4

02.3

5.4

00.3

+ 1° 16' + 3.2

4.0

- 0.8

04.9

+ 2° 52' + 5.7

3.0

+ 2.7

08.4

OBJECT

AZ.

STADIA

1005.72

G. E.

308° 25' 87

"

326° 40' 73

"

6° — 67

"

28° 40' 80

"

42° 30' 106

"

24° 25' 117

"

7° 50' 105

"

343° 20' 98

"

326° 25' 125

"

317° 55' 160

"

327° 50' 170

"

337° 10' 154

"

350° 45' 130

"

3° 15' 130

"

19° — 113

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	----------------	---------------	-----	-------	-------

	$+ 2^{\circ} 52'$	$+ 4.3$	1.6	$+ 2.7$	08.4
--	-------------------	---------	-----	---------	------

			0.8		04.9
--	--	--	-----	--	------

			6.0		99.7
--	--	--	-----	--	------

			5.7		00.0
--	--	--	-----	--	------

			6.0		99.7
--	--	--	-----	--	------

			7.3		98.4
--	--	--	-----	--	------

			7.6		98.1
--	--	--	-----	--	------

			4.8		00.9
--	--	--	-----	--	------

			2.2		03.5
--	--	--	-----	--	------

	$+ 2^{\circ} 45'$	$+ 7.7$	6.0	$+ 1.7$	07.4
--	-------------------	---------	-----	---------	------

	$+ 2^{\circ} 45'$	$+ 8.1$	8.7	$- 0.6$	05.1
--	-------------------	---------	-----	---------	------

			4.5		01.2
--	--	--	-----	--	------

			6.6		99.1
--	--	--	-----	--	------

			8.0		97.7
--	--	--	-----	--	------

			8.2		97.5
--	--	--	-----	--	------

$$H.I. = 1011.21$$

π at A "H"

To A "E"

$88^{\circ} 55'$ 746

To A "G"

$223^{\circ} 47\frac{1}{2}'$ 172

B.M. spk in p.p. (2 G. wires)

G. E.

$160^{\circ} 20'$ 110

"

$139^{\circ} -$ 93

"

$122^{\circ} 10'$ 112

"

$122^{\circ} 45'$ 140

"

$131^{\circ} 20'$ 135

"

$114^{\circ} -$ 153

"

$105^{\circ} -$ 158

"

$105^{\circ} -$ 183

"

$104^{\circ} 25'$ 190

"

$119^{\circ} 25'$ 87

"

$154^{\circ} -$ 140

Sh/d. Rd.

$244^{\circ} 30'$ 53

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
					1006.08
		Hi = 5.13			1006.17
			10.73		1000.46 ^{.48}
			0.62		1010.42 _{1010.42}
			5.01		1010.39
					1006.20
			8.6		02.6
			9.0		02.2
			5.3		05.9
			4.7		06.5
			3.1		08.1
	- 0° 39'	- 1.7	10.0	- 11.8	99.4
	- 1° 21'	- 3.7	11.0	- 14.7	96.5
	- 1° 21'	- 4.3	9.3	- 13.6	97.6
	- 1° 52'	- 6.2	11.0	- 17.2	94.0
			7.2		04.0
			6.9		04.3
			5.8		05.4

OBJECT

AZ.

STADIA

1011.21

Sh/d. Rd

252° 40' 91

"

254° 45' 128

"

255° 30' 168

"

254° 20' 208

"

253° - 251

H.I. = 1011.00

Nat Sta 10

to Sta 22

88° 58½'

to Δ 'H'

149° 10½' 382

BM Spike in PPW 2 Gy Wiers

To POT 8+31.70

268° 58½' 172

Sh/d. Rd

169° 40' 383

"

174° 45' 395

"

180° 20' 423

"

184° 20' 449

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			6.1		05.1
			6.6		04.6
			7.7		03.5
			9.3		01.9
			10.9		00.3
$\begin{matrix} 1010.98 \\ 1011.00 \end{matrix} H.I. = 1011.00$					1006.00
			H.I. 5.0		1006.00
			4.90		1006.08
			4.80		1006.20
$+ 11^{\circ} 30' \quad + 32.24 \quad + 32.85 \quad 3.0 \quad + 29.24 \quad + 29.85$					1032.80
			8.8		02.2
			10.3		00.7
			11.7		99.3
			11.6		99.4

OBJECT

AZ.

STADIA

1011.0

Sb/d. Rd.

187° 35' 478

"

190° 20' 510

"

192° 20' 548

"

193° 35' 580

"

195° 20' 570

"

194° 15' 534

"

192° 40' 508

"

189° 10' 462

"

185° 30' 431

"

181° 40' 404

"

177° 35' 385

"

172° 45' 368

G. E.

187° 40' 553

"

184° 15' 580

"

195° 50' 533

"

195° - 510

"

193° 40' 490

"

191° - 460

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			9.8		01.2
			7.2		03.8
			4.5		06.5
			5.5		05.5
			5.7		05.3
			4.9		06.1
			6.2		04.8
			9.9		01.1
			12.0		99.0
			12.1		98.9
			10.9		00.1
			9.4		01.6
	+ 0° 52'	+ 8.4	6.0	+ 2.4	13.4
	+ 0° 52'	+ 8.8	7.1	+ 1.7	12.7
			18		09.2
			0.5		10.5
			7.3		03.7
			11.6		99.4

OBJECT	AZ.	STADIA
	10 11.0	
ditch	186° 55'	427
Edge swp.	190° 50'	395
G.E.	195° 15'	424
"	198° 20'	450
"	199° 40'	476
"	200° 40'	486
"	202° -	524
"	203° -	554
"	205° 40'	548
"	206° 40'	512
"	205° 40'	492
"	205° -	471
"	204° 10'	450
"	202° -	417
Edge swp.	197° -	370
" "	201° -	349
"	202° 30'	311
"	203° 35'	272

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 1° 20'	- 9.9	8.9	-18.8	92.2
	- 1° 20'	- 9.2	8.1	-17.3	93.7
			13.7		97.3
			9.3		01.7
			3.6		07.4
			+ 1.0		12.0
			+ 0.8		11.8
	+ 0° 40'	+ 6.4	6.0	+ 0.4	11.4
	+ 0° 40'	+ 6.4	3.7	+ 2.7	13.7
	+ 1° 26'	+ 12.8	9.0	+ 3.8	14.8
	+ 1° 26'	+ 12.3	9.3	+ 3.0	14.0
	+ 1° 26'	+ 11.8	8.1	+ 3.7	14.7
			6.5		04.5
			11.1		99.9
	- 1° 20'	- 8.6	8.2	-16.8	94.2
	- 1° 20'	- 8.1	8.6	-16.7	94.3
	- 1° 20'	- 7.2	8.8	-16.0	95.0
	- 1° 20'	- 6.3	9.8	-16.1	94.9

OBJECT

AZ.

STADIA

1011.0

Edge swp.

203° 15' 235

"

205° 30' 189

"

201° 40' 150

"

180° 40' 160

"

165° 40' 150

"

154° 15' 167

G.E.

160° — 70

"

195° 40' 58

"

225° — 73

"

233° — 113

"

233° — 155

"

226° 10' 215

"

222° 40' 257

"

218° 10' 290

"

215° 20' 320

"

213° — 370

"

210° — 410

4-25-56

53

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-	1° 20'	-5.5	10.2	-15.7	95.3
-	1° 20'	-4.4	10.9	-15.3	95.7
-	1° 20'	-3.5	11.5	-15.0	96.0
-	1° 20'	-3.7	12.3	-16.0	95.0
-	1° 20'	-3.5	12.2	-15.7	95.3
-	1° 20'	-3.9	12.1	-16.0	95.0
			7.1		03.9
			7.5		03.5
			7.2		03.8
			6.4		04.6
			6.5		04.5
			5.6		05.4
			6.8		04.2
			7.4		03.6
			8.6		02.4
			7.8		03.2
			7.7		03.3

OBJECT

AZ.

STADIA

1039.00

1038.85

1037.5542

At P.O.T. 8+31.70

To 0+00

268° 58' 831.7

To Sta 10+00

88° 58' 173

B.M. spk. in RR (2 G. wires) 410

G.E.

201° - 455

"

201° - 430

"

198° 05' 405

"

198° 05' 378

"

201° 40' 344

"

204° 10' 310

"

204° 35' 285

"

206° 30' 250

"

208° 25' 212

"

211° 45' 150

"

205° - 90

"

190° 40' 50

"

125° 55' 36

"

83° - 33

To Δ "H"

131° 44' 491

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	4-25-56 DIFF.	54 ELEV.
					1033.24
					1033.85
					1032.450X
			Hi	5.17	1033.60
					(1006.00)
		30.34		32.34	1006.1
- 10° 16'	- 29.55	2.0		31.55	1006.85
	- 23.7			- 32.95	1005.45
- 3° 19'	- 23.60	9.25		- 32.85	1006.20
			13.9		24.5
			12.7		25.7
- 1° 46'	- 12.5	6.0		- 18.5	19.9
- 1° 46'	- 11.6	8.4		- 20.0	18.4
- 1° 51'	- 11.1	6.0		- 17.1	21.3
- 1° 51'	- 10.0	7.6		- 17.6	20.8
- 2° 40'	- 13.3	6.0		- 19.3	19.1
- 2° 40'	- 11.6	3.9		- 15.5	22.9
			12.6		25.8
- 3° 37'	- 9.5	7.0		- 16.5	21.9
- 3° 37'	- 5.7	9.8		- 15.5	22.9
			10.9		27.5
			11.7		26.7
			9.6		28.8
- 2° 48'	- 24.00	9.0		- 33.00	1005.49
					1006.08

OBJECT

AZ.

STADIA

1038.40

G. E.

31° 30'

31

"

354° 20'

41

"

351° 30'

83

"

353° 05'

125

"

316° 45'

164

"

299° 30'

133

"

271° -

118

"

273° 10'

62

"

31° -

16

"

136° 45'

11

"

215° -

42

"

222° 40'

90

"

223° 45'

137

"

222° 22'

190

"

213° 25'

236

"

210° 40'

273

"

208° 40'

315

"

206° 30'

353

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
					55
			8.1		30.3
			6.5		31.9
			7.4		31.0
			7.0		31.4
			10.5		27.9
			12.8		25.6
	- 4° 05'	- 8.4	7.0	-15.4	23.0
			12.3		26.1
			5.2		33.2
			5.9		32.5
			8.2		30.2
	- 2° 14'	- 3.5	11.0	-14.5	23.9
	- 2° 14'	- 5.3	12.3	-17.6	20.8
	- 2° 16'	- 7.5	10.0	-17.5	20.9
	- 2° 16'	- 9.3	4.2	-13.5	24.9
	- 1° —	- 4.8	10.0	-14.8	23.6
	- 1° —	- 5.5	7.1	-12.6	25.8
			11.4		27.0

OBJECT

AZ.

STADIA

1038.40

G.E.

204°25' 390

"

203°25' 415

"

205°40' 470

"

209°40' 440

"

214° — 406

"

217°50' 368

"

221°10' 328

"

225°40' 292

"

232°35' 253

"

236°45' 213

"

244°50' 170

"

265°10' 132

"

266°20' 226

"

254°30' 224

"

269°50' 190

"

280°50' 197

"

256°35' 77

"

244°45' 113

DIST.	VERT. ANGLE	ROD EQUIV.	4-25-56		56
			ROD	DIFF.	ELEV.
			10.4		28.0
			10.2		28.2
			13.0		25.4
	-1° 13'	-9.3	6.0	-15.3	23.1
	-1° 13'	-8.6	10.5	-19.1	19.3
	-2° 57'	-18.9	9.0	-27.9	10.5
	-2° 57'	-16.9	11.5	-28.4	10.0
	-3° 14'	-16.4	6.0	-22.4	16.0
	-3° 14'	-14.2	8.0	-22.2	16.2
	-3° 14'	-12.0	9.7	-21.7	16.7
	-3° 35'	-10.6	10.0	-20.6	17.8
	-3° 35'	-8.2	9.5	-17.7	20.7
	-2° 41'	-10.6	9.0	-19.6	18.8
	-2° 41'	-10.5	10.0	-20.5	17.9
	-2° 28'	-8.2	9.0	-17.2	21.2
	-2° 28'	-8.5	8.1	-16.6	21.8
	-3° 54'	-5.2	10.0	-15.2	23.2
	-3° 54'	-7.7	10.4	-18.1	20.3

OBJECT

AZI.

STADIA

Hi = 1008.00

At Sta. 11+00

To Sta 22+00

88° 58' $\frac{1}{4}$

To A "H"

163° 50' 342

B.M. spt in P.P. (2 H. wires)

To P.O.T 8+31.70

268° 58' $\frac{1}{4}$

To 10+00

G. E

246° 30' 78

"

242° 10' 100

"

258° 25' 97

"

272° 50' 156

"

248° 30' 35

"

285° 20' 190

"

200° 25' 56

"

292° 40' 238

"

307° 30' 174

"

213° 05' 94

"

292° - 132

"

188° 10' 82

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	$\left. \begin{array}{l} 1008.01 \\ 1008.00 \end{array} \right\} H.I.: 1008.00$				
		Hi =	5.05		1002.95
			1.92		1006.08
			1.81		1006.20
					1033.24
	+ 5° 58'	+ 27.80	3.0	+ 24.80	1032.80
			2.00		1006.00
	+ 2° 45'	+ 3.7	1.5	+ 2.2	10.2
	+ 2° 45'	+ 4.8	5.6	- 0.8	07.2
	+ 2° 45'	+ 4.6	5.2	- 0.6	07.4
			1.1		06.9
			0.4		07.6
	+ 2° 45'	+ 9.1	7.5	+ 1.6	09.6
			1.6		06.4
	+ 2° 45'	+ 11.4	7.5	+ 3.9	11.9
			0.6		07.4
			5.5		02.5
			2.1		05.9
			6.5		01.5

OBJECT

AZI

STADIA

1008.0

G E.

274° 15' 115

"

159° 15' 82

"

286° 25' 54

"

148° 50' 51

"

323° 45' 97

"

119° — 19

"

334° 20' 147

"

7° 25' 150

"

96° — 56

"

8° — 73

"

116° 40' 102

"

7° 40' 18

"

136° 10' 104

"

72° 10' 70

"

154° 50' 119

"

43° — 108

Edge swp.

170° 30' 135

" "

181° 20' 153

DIST.

VERT.
ANGLEROD
EQUIV.4-26-58
ROD DIFF.58
ELEV.

3.2

04.8

6.7

01.3

2.9

05.1

5.5

02.5

2.8

05.2

6.0

02.0

0.3

07.7

+ 2° 45'

+ 7.2

2.7

+ 4.5

12.5

9.2

98.8

4.7

03.3

9.3

98.7

5.7

02.3

9.0

99.0

10.0

98.0

10.3

97.7

6.9

01.1

12.0

96.0

12.7

95.3

OBJECT	AZ.	STADIA
	1008.0	
G. E.	27° 30'	175
"	44° 30'	210
"	61° 30'	166
Edge Swp.	194° 10'	172
G. E.	209° 15'	123
Edge Swp. at Fc.	78° 35'	155
G. E.	186° 40'	108
Edge Swp.	68° 20'	204
G. E.	166° 50'	103
Edge swp.	56° 20'	243
End ditch 4' wide	155° 45'	128
ditch	137° 30'	111
beg. ditch	108° 30'	123
Fc.	272° 45'	150
"	282° 40'	63
Edge Swp	95° —	103
Fc.	74° —	73
G. E.	119° 20'	123

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

4-26-56
DIFF.59
ELEV.

0.4

07.6

6.6

01.4

9.1

98.9

13.0

95.0

7.4

00.6

10.8

97.2

7.9

00.1

10.7

97.3

8.3

99.7

10.1

97.9

12.4

95.6

11.7

96.3

11.4

96.6

2.0

06.0

2.6

05.4

10.9

97.1

10.0

98.0

9.4

98.6

OBJECT

AZ.

STADIA

1008.0

Edge Swp

110° 10' 137

G.E.

137° 45' 120

Edge Swp.

114° 30' 187

G.E.

150° 40' 140

Edge Swp

110° - 232

" "

156° 40' 165

" "

104° 45' 290

" "

160° 15' 200

" "

99° 50' 340

" "

159° 25' 228

" "

93° 45' 376

" "

168° 40' 250

" " at Fc.

85° - 390

" "

179° 10' 262

" "

190° 10' 270

" "

80° 35' 420

" "

199° 10' 292

" "

74° 20' 428

DIST.

VERT.
ANGLEROD
EQUIV.4-26
ROD-56
DIFF.60
ELEV.

10.9

97.1

9.1

98.9

10.7

97.3

10.1

97.9

10.5

97.5

12.0

96.0

10.6

97.4

13.1

94.9

10.9

97.1

13.0

95.0

10.3

97.7

13.0

95.0

10.1

97.9

12.9

95.1

12.9

95.1

8.9

99.1

13.1

94.9

9.0

99.0

OBJECT

AZ.

STADIA

1008.0

Edge swp

205° 20' 327

" "

208° 45' 390

" "

207° — 430

G.E.

146° 40' 288

"

158° 25' 290

Shld Rd

181° 25' 340

" "

172° 20' 334

G.E.

171° 50' 292

"

183° 20' 300

"

194° 50' 320

Fc

164° 10' 327

G.E.

202° 50' 368

Fc.

174° — 324

"

204° 10' 413

"

181° 50' 328

"

197° 10' 367

"

189° — 340

"

154° — 345

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
					61
			13.1		94.9
			14.0		94.0
			14.1		93.9
			8.6		99.4
			8.6		99.4
			3.4		04.6
			2.9		05.1
			9.1		98.9
			9.0		99.0
			9.1		98.9
			5.9		02.1
			10.2		97.8
			5.7		02.3
			10.7		97.3
			5.5		02.5
			7.1		00.9
			5.9		02.1
			0.9		07.1

OBJECT

AZ.

STADIA

1008.0

G. E.

146° 40' 367

"

141° 25' 180

"

140° 50' 390

"

128° 40' 180

"

137° 30' 414

"

127° 25' 240

"

139° 10' 270

"

139° — 360

"

146° 50' 327

"

132° 50' 332

"

136° — 306

"

126° 30' 315

"

127° — 280

"

121° 20' 343

"

116° 50' 296

"

119° 30' 380

"

111° 10' 358

"

117° — 408

4-26-56

62

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4.7		03.3
			8.6		99.4
			2.6		05.4
			8.1		99.9
			6.9		01.1
			8.0		00.0
			8.0		00.0
			+ 0.3		08.3
			5.3		02.7
			0.9		07.1
			4.6		03.4
			+ 0.5		08.5
			4.3		03.7
			1.1		06.9
			6.2		01.8
			2.0		06.0
			7.4		00.6
			4.2		03.8

OBJECT

AZ.

STADIA

1008.0

G.F.

110° 40' 411

"

121° 45' 408

"

105° 25' 387

"

126° — 395

"

109° 15' 333

"

130° 15' 388

"

111° 35' 281

"

134° 25' 390

"

120° 35' 245

"

H I = 1010.70

K at Sta 16

to Sta 22

88° 58' 1/2

B.M. spk in P.P. (2 H. wires)

To P.O.T. 8+31.70

770

To A "H"

230° 06' 525 ✓

4-26-56 63

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			9.1		98.9
			4.6		03.4
			9.9		98.1
			5.0		03.0
			8.5		99.5
			5.7		02.3
			8.5		99.5
			3.1		04.9
			8.1		99.9

1010.78 }
 1010.70 } H.I. = 1010.74

H.I. = 5.15

1005.59
~~1005.35~~

1015.90

4.50

1006.20

~~+1° 52' 125.05 3.0 122.05 1032.75~~

4.7

1006.08

OBJECT

AZ.

STADIA

1010.74

G.E. + Fc.	304° 20'	46 ✓
" + Fc.	207°	350 ✓
End ditch	340° 45'	93 ✓
ditch	12° 20'	90 ✓
beg. ditch	42° 10'	106 ✓
G.E. + Fc.	198° -	327 ✓
" + Fc.	193° 10'	315 ✓
" + Fc.	186° 20'	310 ✓
G.E.	62° 10'	135 ✓
" + Fc.	178° 45'	310 ✓
"	46° 45'	135 ✓
"	28° -	114 ✓
"	0° 45'	109 ✓
"	340° 40'	115 ✓
"	349° 05'	63 ✓
"	212° 10'	190 ✓
"	208° 15'	214 ✓
"	205° -	247 ✓

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁶⁴
			8.6		02.1
	- 0° 55'	- 5.6	9.0	- 14.6	96.1
			10.2		00.5
			9.7		01.0
			8.7		02.0
			8.5		02.2
			9.1		01.6
			12.5		98.2
			8.1		02.6
			11.1		99.6
			6.3		04.4
			7.1		03.6
			8.7		02.0
			10.0		00.7
			7.9		02.8
			11.3		99.4
			8.7		02.0
			9.9		00.8

OBJECT

AZ.

STADIA

1010.74

G. E.

208° — 285 ✓

11

198° 20' 280 ✓

11

209° 30' 320 ✓

11

190° 15' 278 ✓

11

195° 40' 240 ✓

11

184° 50' 253 ✓

11

193° 10' 212 ✓

11

193° 50' 175 ✓

11

183° 50' 224 ✓

11

187° 40' 144 ✓

11

173° 16' 230 ✓

11

170° 50' 134 ✓

11

166° 50' 240 ✓

11

155° 30' 146 ✓

11

164° 10' 210 ✓

11

148° 20' 116 ✓

11

161° 40' 162 ✓

11

169° 40' 102 ✓

DIST.	VERT. ANGLE	ROD EQUIV.	4-26-56 ROD	DIFF.	65 ELEV.
					98.9
			11.8		
			3.7		07.0
			13.1		97.6
			9.9		00.8
			4.4		06.3
			10.7		00.0
			5.0		05.7
			4.2		06.5
			7.2		03.5
			3.4		07.3
	+0° 42'	+2.8	9.0	-6.2	04.5
			2.0		08.7
	+1° 30'	+6.3	11.0	-4.7	06.0
	+1° 30'	+3.8	2.7	+1.1	11.8
	+1° 30'	+5.5	3.5	+2.0	12.7
	+1° 56'	+3.9	4.0	-0.1	10.6
	+1° 56'	+5.5	2.4	+3.1	13.8
			5.1		05.6

OBJECT

AZ.

STADIA

1010.74

G.E.

174° 10'

174[✓]

"

192° 40'

94[✓]

"

218° 30'

103[✓]

"

256° —

79[✓]

"

135° 30'

88[✓]

"

249° 10'

38[✓]

"

99° 20'

66[✓]

F.C. Cor. F. g. g. No.

67° 40'

67[✓]

"

163° 30'

47[✓]

F.C.

46° 10'

39[✓]

"

60° 25'

106[✓]

"

81° 10'

98[✓]

"

99° 50'

99[✓]

"

154° 10'

207[✓]

"

116° 10'

107[✓]

"

145° 40'

208[✓]

"

132° 20'

135[✓]

"

142° —

232[✓]

4-26-56						66
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.	
			+ 0.5			11.2
			7.0			03.7
			8.5			02.2
			10.3			00.4
			0.2			10.5
			7.5			03.2
	+2° 15'	+ 2.6	2.0	+ 0.6		11.3
			2.1			08.6
			4.7			06.0
			4.4			06.3
			7.7			03.0
			6.2			04.5
	+3° 35'	+ 6.2	8.7	- 2.5		08.2
	+3° 35'	+ 12.9	7.2	+ 5.7		16.4
	+3° 35'	+ 6.7	5.6	+ 1.1		11.8
	+3° 35'	+ 13.0	5.6	+ 7.4		18.1
	+3° 35'	+ 8.4	6.5	+ 1.9		12.6
	+3° 35'	+ 14.5	9.1	+ 5.4		16.1

OBJECT

AZ.

STADIA

1010.74

G.E.

145° 40' 167 ✓

"

135° 30' 264 ✓

"

141° 10' 253 ✓

"

158° 20' 230 ✓

"

148° — 247 ✓

"

161° 15' 252 ✓

"

151° 20' 260 ✓

At Sta 20+00

To Sta 22+00

88° 58' 1/4

BM Spike in 28" Elm Near where Barn was

Next few Shots Enclose Concrete
Foundations of demolished Barn & silos

"

296° 50' 164

"

274° — 145

"

242° 15' 164

DIST.	VERT. ANGLE	ROD EQUIV	4-26-56		67
			ROD	DIFF.	ELEV.
	$+3^{\circ} 35'$	+10.4	7.5	+2.9	13.6
	$+1^{\circ} 38'$	+7.5	6.0	+1.5	12.2
	$+1^{\circ} 38'$	+7.2	4.5	+2.7	13.4
	$+3^{\circ} 35'$	+14.4	12.0	+2.4	13.1
	$+3^{\circ} 35'$	+15.4	11.6	+3.8	14.5
	$+1^{\circ} 45'$	+7.7	11.0	-3.3	07.4
	$+1^{\circ} 55'$	+8.7	10.0	-1.3	09.4
	H.I.	1006.73			
		Hi =	5.10		1001.63
					1015.90
			1.17		1005.56
			1.0		05.7
			1.1		05.6
			0.9		05.8

OBJECT

AZ.

STADIA

1006.73

"	229° 50'	115
"	275° 40'	84
"	310° 20'	118
G. E.	226° 20'	340
"	229° 20'	252
"	224° 10'	281
"	237° 40'	268
"	242° 20'	300
"	254° —	280
"	281° 40'	202
"	262° —	267
"	260° 40'	226
"	295° 10'	217
"	297° 20'	250
N. E. Cor. Shed	249° —	243
N. W. " "	251° 20'	263
S. E. " "	245° 40'	250
G. E.	307° 30'	214

4-26-56

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

2.8

03.9

1.7

05.0

1.4

05.3

+1° — +5.9

3.0

+2.9

09.6

+0.2

06.9

+0° 56' +4.6

3.0

+1.6

08.3

+0° 56' +4.4

1.6

+2.8

09.5

+1° 55' +10.0

3.0

+7.0

13.7

+1° 55' +9.4

5.6

+3.8

10.5

2.6

04.1

+1° — +4.6

2.0

+2.6

09.3

+0° 45' +3.0

2.0

+1.0

07.7

+0° 45' +2.8

3.6

-0.8

05.9

+1° 25' +6.2

3.0

+3.2

09.9

+1° 25' +6.0

3.4

+2.6

09.3

+1° 22' +6.5

3.0

+3.5

10.2

+1° 22' +6.2

2.8

+3.4

10.1

+1° 17' +4.8

3.0

+1.8

08.5

OBJECT

AZ.

STADIA

1006.73

GE.

320° 20' 200

9

240° 25' 208

11

331° 30' 193

11

344° 30' 190

11

260° 15' 187

11

358° 40' 180

11

12° 45' 177

11

227° 20' 162

11

26° 10' 189

12

326° — 118

11

42° 50' 207

11

346° 15' 85

11

51° 20' 235

11

20° 40' 85

11

59° 15' 214

11

47° 20' 106

70° 10' 192

61° 10' 142

4-26-56 69

DIST.	ERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	---------------	---------------	-----	-------	-------

	+ 1° 17'	+ 4.5	2.5	+ 2.0	08.7
			1.4		05.3
	+ 2° 57'	+ 9.9	6.0	+ 3.9	10.6
	+ 2° 57'	+ 9.8	2.0	+ 7.8	14.5
			1.5		05.2
	+ 6° 17'	+ 19.6	9.7	+ 9.9	16.6
	+ 6° 17'	+ 19.3	6.0	+ 13.3	20.0
			2.5		04.2
	+ 6° 17'	+ 20.6	3.7	+ 16.9	23.6
	+ 6° 17'	+ 12.8	10.5	+ 2.3	09.0
	+ 6° 17'	+ 22.5	2.3	+ 20.2	26.9
	+ 6° 17'	+ 9.2	7.2	+ 2.0	08.7
	+ 6° 17'	+ 25.6	7.7	+ 17.9	24.6
	+ 6° 17'	+ 9.2	8.2	+ 1.0	07.7
	+ 6° 17'	+ 23.3	8.2	+ 15.1	21.8
	+ 6° 17'	+ 11.5	10.7	+ 0.8	07.5
	+ 3° 15'	+ 10.9	2.0	+ 8.9	15.6
	+ 3° 15'	+ 8.0	6.7	+ 1.3	08.0

OBJECT

AZ.

STADIA

1006.73

G.E.

84° 50' 183

n

82° 30' 120

n

101° 20' 186

n

102° 10' 135

n

115° 50' 200

n

127° 20' 228

n

119° 45' 152

n

134° 15' 250

n

137° 50' 187

n at Fc.

145° 45' 238

n at Fc.

153° 15' 250

n at Fc.

160° 20' 262

n

159° 25' 218

n

163° 30' 220

n

151° — 200

n

162° 30' 175

n

159° 50' 128

n

139° 20' 154

		4-26-56		70	
DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	+3° 15'	+10.4	5.9	+4.5	11.2
			2.2		04.5
	+2° —	+6.5	1.0	+5.5	12.2
			4.9		01.8
	+2° 22'	+8.3	2.0	+6.3	13.0
	+2° 22'	+9.4	5.1	+4.3	11.0
			5.3		01.4
			1.3		05.4
			5.5		01.2
			0.2		06.5
			0.8		05.9
			3.5		03.2
			5.5		01.2
			7.6		99.1
			5.4		01.3
			8.2		98.5
			8.3		98.4
			2.5		99.2

OBJECT

AZ.

STADIA

1006.73

G.E.

151° 20' 81

u

126° 20' 114

u

133° 15' 43

u

101° 35' 92

u

60° 30' 30

u

304° 30' 35

u

219° 10' 6.7

u

264° — 58

u

201° 40' 100

u

229° — 70

u

188° — 139

u

208° 45' 100

u

179° 30' 187

u

197° 05' 115

u

172° 40' 222

u

186° 40' 170

u

168° 30' 255

u

68° 20' 213

4-26-56 71

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-------	-------------	------------	-----	-------	-------

7.6

99.1

7.3

99.4

7.1

99.6

6.6

00.1

4.6

02.1

2.0

04.7

5.6

01.1

2.6

04.1

7.1

99.6

2.9

03.8

7.3

99.4

4.1

02.6

7.5

99.2

5.0

01.7

7.9

98.8

5.6

01.1

6.0

00.7

+3° 32' + 13.1

2.0

+11.1

17.8

OBJECT

AZ.

STADIA

1006.73

G.E.	85° —	208
"	128° —	270
"	97° 50'	202
"	106° 50'	224
"	113° 50'	230
"	119° —	240
"	123° 40'	293
"	107° 10'	248
"	116° 40'	280
"	105° 40'	272
"	108° 40'	280

T at Δ "E"

T to Δ "H" 268° 55' 747

B.M. Top So. End 10" V. I. & Drain

S.W. Cor. Ho	295° 09'	184
S.E. " "	298° 30'	162

DIST.	VERT. ANGLE	ROD EQUIV.	4-26-56 ROD	DIFF.	72 ELEV.
	+3° 32'	+12.8	4.7	+8.1	14.8
	+1° 39'	+7.8	8.0	-0.2	06.5
	+3° 30'	+12.3	2.0	+10.3	17.0
	+4° 11'	+16.3	2.0	+14.3	21.0
	+4° 11'	+16.7	3.5	+13.2	19.9
	+3° 49'	+15.9	6.0	+9.9	16.6
	+2° 11'	+11.2	11.0	+0.2	06.9
	+4° 12'	+18.1	2.0	+16.1	22.8
	+3° 22'	+16.4	10.0	+16.4	13.1
	+4° 05'	+19.3	5.0	+14.3	21.0
	+4° 04'	+19.8	6.0	+13.8	20.5
	1005.58 1005.61	H.I. = 1005.59			1000.46 1000.43
		Hi = 5.12			
			+ 0.60		1006.08
			9.99		995.62
	+2° 30'	+8.0	6.0	+2.0	07.6
	+2° 30'	+7.1	4.3	+2.8	08.4

OBJECT

AZ.

STADIA

1005.59

G. E. + Fc.

273° 10' 290

" Fc.

273° 50' 243

"

283° 10' 230

" Fc

275° - 196

"

283° 40' 185

"

278° 25' 270

"

283° 20' 164

At Sta. 23+73.6

To P.O.T. 8+31.70

268° 58' 1/2

To A "B"

169° 32' 340

B.M. spk in P.D. S.T.H. 100 + Rd to joy pack

316

Beg. 4" drain tile

276° 40' 73

End 4" " "

197° 20' 157

G.E. + Fc.

212° 40' 202

" + Fc.

200° 30' 180

Shld. Rd.

213° 40' 225

DIST.	VERT. ANGLE	ROD DOWN	ROD	DIFF.	ELEV
			4-26-56		73
			4.5		01.1
			6.2		99.4
	+1° 34'	+ 6.3	10.0	-3.7	01.9
			6.5		99.1
	+1° 45'	+ 5.6	9.0	-3.4	02.2
			5.9		99.7
	+1° 31'	+ 4.3	8.0	-3.7	01.9
		H.I.	1022.09		
		Hi=	5.16		1016.93
					1025.13
	+0° 51'	+5.04	2.0	+3.04	1025.36
	-1° 13'	-6.70	9.0	-15.70	1006.62
	-4° 12'	-5.3	9.4	-14.7	07.4
	-4° 12'	-11.5	7.0	-18.5	03.6
	-3° —	-10.6	5.0	-15.6	06.5
	-3° —	-9.4	9.7	-19.1	03.0
	-2° 55'	-11.4	8.0	-19.4	02.7

OBJECT

AZ.

STADIA

1022.09

Sh/d Rd.	209° 40'	203
" "	190° 30'	186
" "	179° 50'	180
G.F. + Fc.	189° 50'	171
" Fc.	181° -	167
" Fc.	166° 10'	172
" Fc.	154° 30'	187
" Fc.	143° 40'	208
Sh/d Rd.	168° 50'	184
" "	157° 40'	195
" "	148° -	211
" "	140° 55'	231
" "	133° 25'	260
G.E. + Fc.	132° 40'	245
" + Fc. Cor.	126° -	280
Sh/d Rd.	126° 45'	300
" "	122° 30'	291
G.F. + Fc.	123° 50'	284

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			9.503		
	-2° 55'	-10.3	9.7	-20.0	02.1
	-3° 49'	-12.4	8.5	-20.9	01.2
	-3° 39'	-11.4	9.5	-20.9	01.2
	-3° 49'	-11.4	9.0	-20.4	01.7
	-3° 39'	-10.6	10.0	-20.6	01.5
	-4° 43'	-14.1	7.0	-21.1	01.0
	-6° 16'	-20.3	2.0	-22.3	99.8
	-5° 04'	-18.3	4.0	-22.3	99.8
	-4° 43'	-15.1	6.3	-21.4	00.7
	-6° 16'	-21.2	0.8	-22.0	00.1
	-5° 04'	-18.6	3.3	-21.9	00.2
	-4° 05'	-16.4	5.0	-21.4	00.7
	-3° 54'	-17.6	3.0	-20.6	01.5
	-4° 05'	-17.4	3.0	-20.4	01.7
	-2° 45'	-13.4	5.0	-18.4	03.7
	-2° 45'	-14.4	2.1	-16.5	05.6
	-2° 45'	-13.9	0.9	-14.8	07.3
	-2° 45'	-13.6	4.0	-17.4	04.7

OBJECT

AZ.

STADIA

1022.09

G.E.	117° 35'	267
"	109° 30'	250
Sh/d. Rd	117° 20'	276
"	110° 45'	264
"	101° —	251
"	93° 10'	247
G.E.	99° 10'	238
"	88° 50'	234
"	77° 10'	241
"	66° 30'	258
Sh/d Rd	83° 40'	249
" "	73° 50'	255
"	66° —	269
G.E. + Fc	67° 40'	245
"	64° 30'	215
" + Fc.	77° 40'	230
"	73° 50'	204
" + Fc.	88° 35'	228

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4-26-56		75
			10.2-2.31		
	-2° 33'	-11.9	6.0	-16.9	05.2
	-2° 35'	-11.3	6.0	-17.3	04.8
	-2° 33'	-12.3	2.0	-14.3	07.8
	-2° 35'	-11.9	2.2	-14.1	08.0
	-2° 37'	-11.4	2.5	-13.9	08.2
	-2° 28'	-10.6	2.8	-13.4	08.7
	-2° 37'	-10.9	6.0	-16.9	05.2
	-2° 28'	-10.1	6.0	-16.1	06.0
	-1° 38'	-6.9	9.0	-15.9	06.2
	-2° —	-9.0	6.0	-15.0	07.1
	-1° 38'	-7.1	6.0	-13.1	09.0
	-2° —	-8.9	3.6	-12.5	09.6
	-0° 29'	-2.2	10.0	-12.2	09.9
			10.4		11.7
			12.7		09.4
			12.3		09.8
	-1° 29'	-5.3	10.0	-15.3	06.8
	-1° 29'	-5.9	9.0	-14.9	07.2

OBJECT

AZ.

STADIA

1022.09

G.E.	89° 15'	195
" & Fc.	99° 20'	230
"	100° 45'	197
" & Fc	110° 50'	245
"	113° 20'	207
" & Fc	119° -	260
"	122° 15'	218
"	128° 10'	229
"	122° -	183
"	135° 25'	188
Edge Pot Hole	111° 50'	190
G.E.	146° 15'	157
Edge pot Hole	102° -	180
" "	82° 10'	136
G.E.	161° 45'	141
"	153° 10'	108
Edge pot pole	100° 40'	122
" "	111° 20'	144

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	-2° 31'	-8.6	9.0	-17.6	04.5
	-2° 31'	-10.1	6.8	-16.9	05.2
	-3° 46'	-12.9	6.0	-18.9	03.2
	-3° 46'	-16.1	1.6	-17.7	04.4
	-3° 24'	-12.3	7.0	-19.3	02.8
	-3° 24'	-15.4	1.5	-16.9	05.2
	-3° 02'	-11.5	7.0	-18.5	03.6
	-3° 02'	-12.1	7.1	-19.2	02.9
	-3° 16'	-10.4	9.0	-19.4	02.7
	-3° 54'	-12.7	8.0	-20.7	01.4
	-3° 54'	-12.9	7.5	-20.4	01.7
	-5° 57'	-16.2	5.0	-21.2	00.9
	-5° 57'	-18.6	1.8	-20.4	01.7
	-6° —	-14.1	6.0	-20.1	02.0
	-5° 57'	-14.5	5.6	-20.1	02.0
	-5° 57'	-11.1	5.3	-16.4	05.7
	-5° 52'	-12.4	8.0	-20.4	01.7
	-5° 49'	-14.5	6.0	-20.5	01.6

OBJECT

AZ.

STADIA

1022.09

G.F.

133° - 73

"

92° - 55

"

126° 20' 137

"

109° 30' 108

"

51° - 73

"

88° 20' 100

"

29° 05' 113

"

60° 30' 110

"

46° 30' 143

"

55° - 170

"

70° 20' 154

"

10° 10' 102

"

349° 30' 104

"

12° 30' 58

"

342° 15' 67

"

41° 40' 10

"

316° 50' 43

"

192° 30' 43

DIST.	VERT. ANGLE	ROD EQUIV.	4-27-56 ROD	DIFF.	77 ELEV.
	-5° 52'	-7.4	7.9	-15.3	06.8
	-5° 49'	-5.5	9.9	-15.4	06.7
	-4° 18'	-10.2	9.0	-19.2	02.9
	-4° 18'	-8.1	10.8	-18.9	03.2
	-3° 47'	-4.8	9.0	-13.8	08.3
	-3° 47'	-6.6	12.2	-18.8	03.3
	-3° 47'	-7.4	6.0	-13.4	08.7
	-3° 47'	-7.2	11.3	-18.3	03.8
	-3° —	-7.5	10.0	-17.5	04.6
	-3° 16'	-9.7	6.0	-15.7	06.4
	-3° 16'	-8.8	9.3	-18.1	04.0
			5.7		16.4
			11.9		10.2
			6.1		16.0
			12.0		10.1
			5.5		16.6
			11.6		10.5
			5.4		16.7

OBJECT

AZ.

STADIA

1022.09

G. F.

269° - 33

"

163° 20' 45

"

221° - 53

"

173° 40' 92

"

202° 40' 77

"

198° 55' 103

"

176° 50' 133

"

192° - 134

"

217° 20' 173

"

198° 30' 148

"

222° 15' 152

"

207° 40' 114

"

226° 20' 111

"

215° 30' 89

"

245° 30' 92

"

242° 30' 72

"

270° - 72

"

276° 20' 100

DIST.	VERT. ANGLE	ROD EQUIV.	4-27-56		78
			ROD	DIFF.	ELEV.
			9.5		12.6
			7.7		14.4
			8.6		13.5
			9.8		12.3
			8.0		14.1
			8.5		13.6
	-3° 24'	-7.9	9.0	-16.9	05.2
	-3° 24'	-7.9	6.9	-14.8	07.3
			10.6		11.5
	-2° 51'	-7.4	9.0	-16.4	05.7
			6.1		16.0
			9.5		12.6
			6.8		15.3
			9.6		12.5
			11.7		10.4
	-2° 58'	-3.7	9.0	-12.7	09.4
	-2° 58'	-3.7	9.5	-13.2	08.9
	-2° 28'	-4.3	9.0	-13.3	08.8

OBJECT

AZI

STADIA

1022.09

Edge Pot Hole

292° 55' 73

" "

293° 50' 110

" "

323° - 88

" "

310° 15' 133

" "

338° - 154

" "

324° - 150

G.E.

300° 30' 185

"

285° 30' 147

~~B.P. 16~~

+

↑

-

E

BM 11.47 1017.67

(1006.20)

TP 12.24 1029.15 1.26 1016.41

" 5.20 1034.03 0.32 1028.83

POT 8+ 31.70 0.77 1033.26 (1033.24)

TP 1.44 1022.23 13.22 1020.81

" 3.88 1013.72 12.41 1009.84

B M 7.48 1006.24 (1006.20)

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	4-27-56 DIFF.	79 ELEV.
	-2° 28'	-3.1	11.2	-14.3	07.8
	-2° 35'	-5.0	9.0	-14.0	08.1
	-2° 35'	-4.0	10.6	-14.6	07.5
	-2° 21'	-5.5	9.0	-14.5	07.6
	-2° 21'	-6.3	8.4	-14.7	07.4
	-2° 01'	-5.3	9.0	-14.3	07.8
			7.8		14.3
			10.1		12.0

FK
RG

May 1, 1956

Spike in P.P With 2 Guy Wires

Spike in PP With 2 Guy Wires

OBJECT

AZ.

STADIA

Sta 23+73.6 - Elev 1016.93 ✓
22+00 Elev. 1015.90 ✓

Frank
5-2-56 ✓

DIST.

VERT.
ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV.

Joy Farm

Building Locations

3 pages

platted

OBJECT	AZ.	STADIA	
T at M.C. #6			
N.E. Cor Sec 1	0° 00'		
to Hub "A"	314° 32½'	554'	
T at Hub "A"			
to M.C. #6	134° 32½'	556'	
to Hub #B	329° 49'	595'	
N.E. Cor Ho. ①	264° 02'	13'	
" " " ②	293° 42'	45'	Diagram
" " " ③	279° 36'	45'	Page 3
SW Cor Ho	334° 27'	147'	40' x 28'
SE Cor Ho	345° 25'	111'	
NE Cor Ho	353° 09'	147'	
T at Hub B			
to Hub A	149° 09'	595'	
N.E. Cor Ho	220° 25'	209'	44' x 26'
NW. Cor Ho	225° 39'	226'	
SE Cor Ho	214° 16'	244'	
SE Cor Ice House	252° 53'	173'	16' x 16'
N.E. Cor Ice Ho	257° 58'	168'	
N.W. Cor " "	259° 22'	184'	

HAW
FK
AM
LC
MM

March 30, 1954
Snow Showers 28°

2

DIST.

VERT.
ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV.

OBJECT

AZ.

STADIA

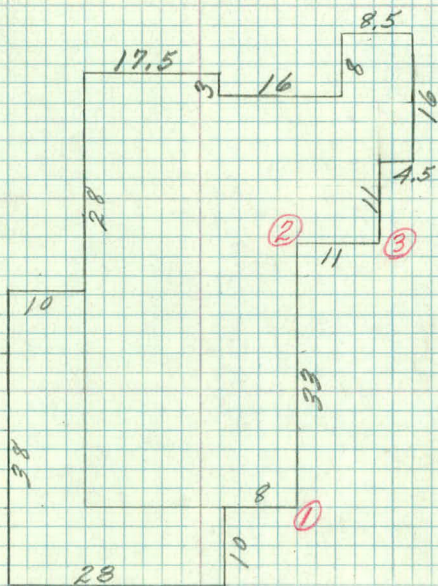
Lat Hat B

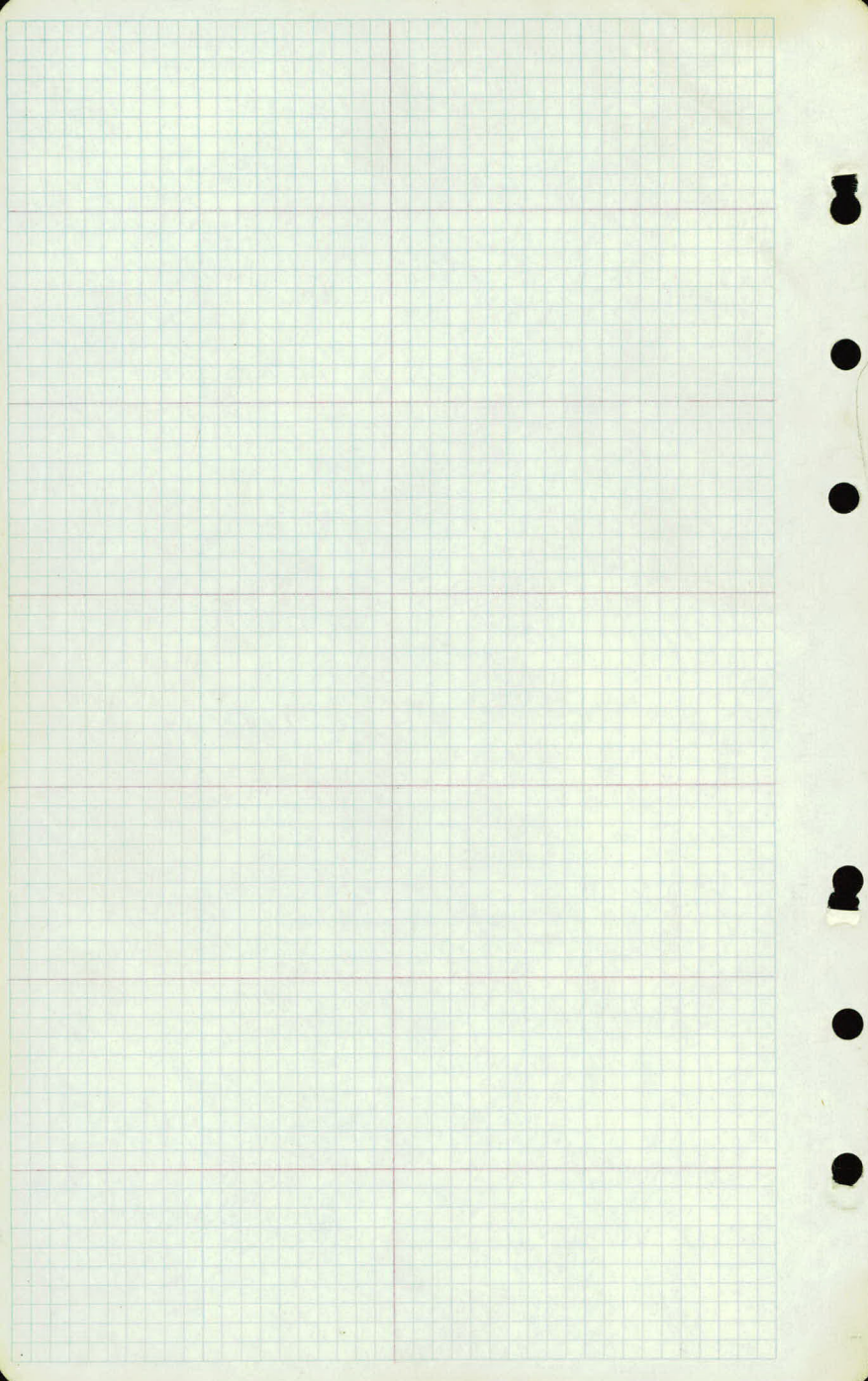
SW Cor Demolished Barn 254°05' 86'

SE Cor " " 243°10' 50'

NE Cor " " 339°36' 134'

NW Cor " " 326°02' 152'





KP
DS

1 JUNE 1962

JOY PARK TOPOGRAPHY

LH

±

RH

4+00

1010

$$\begin{array}{r} +83 \text{ 60" TW COTT} \\ \hline 160 \end{array}$$

$$\begin{array}{r} +73 \text{ 12" MAPLE} \\ \hline 105 \end{array}$$

$$\begin{array}{r} +57 \text{ 2" COTT} \\ \hline 86 \end{array}$$

3+00

1010

$$\begin{array}{r} +40 \text{ ER} \\ \hline 12 \end{array}$$

$$\begin{array}{r} +27 \text{ POR} \\ \hline 19 \end{array}$$

$$\begin{array}{r} +20 \text{ ER} \\ \hline 34 \end{array}$$

+10 ± 13.6 DRIVEWAY

$$\begin{array}{r} +05 \text{ ER} \\ \hline 34 \text{ POR} \\ \hline 22 \end{array}$$

2+00

$$\begin{array}{r} +95 \text{ POS} \\ \hline 17 \end{array}$$

1+81

BR
110+00 = ± JOY RD AT $\frac{1}{4}$ W LINE OF NE $\frac{1}{4}$

10 JUNE 1962

Lt

£

Rt



¢

5+00

$$\begin{array}{r} +00 \text{ ER} \\ \hline 11 \\ +94 \text{ POR} \\ \hline 15 \end{array}$$

$$\begin{array}{r} +88 \text{ ER} \\ \hline 29 \end{array}$$

+81 RT DRIVE

+70 ± 21.0 DRIVE

$$\begin{array}{r} 1 \\ +67 \text{ ER} \\ \hline 27 \end{array}$$

$$\begin{array}{r} +59 \text{ 12" TWOAK} \\ \hline 21 \end{array}$$

$$\begin{array}{r} +59 \text{ POR} \\ \hline 12 \end{array}$$

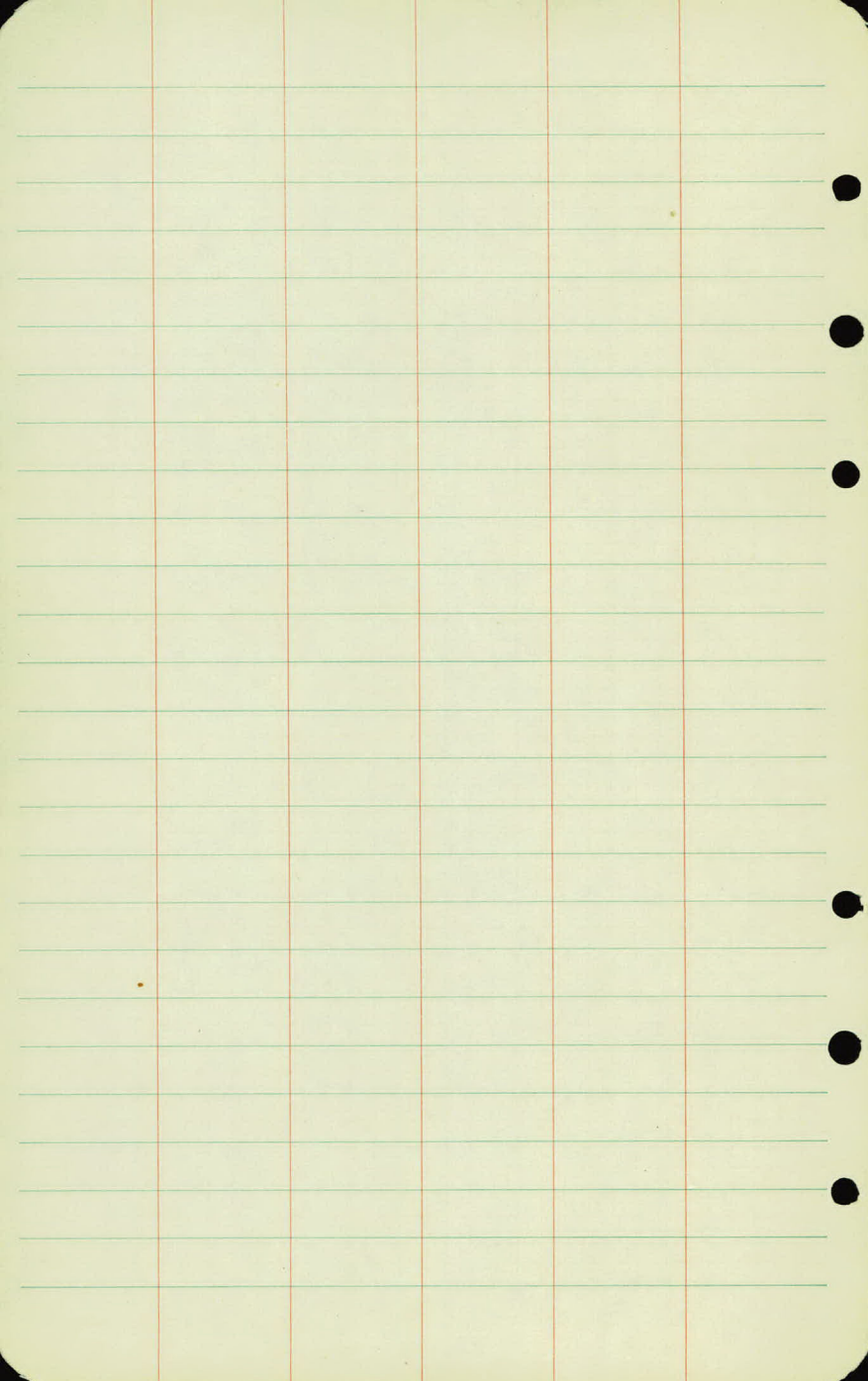
$$\begin{array}{r} \checkmark \\ +56 \text{ BR} \\ \hline 9 \end{array}$$

$$\begin{array}{r} +50 \text{ 36" TW O} \\ \hline 14 \end{array}$$

4+00

1 JUNE 1962





KP
DS

1 JUNE 1962

JOY PARK

X - SECTIONS

Sta	+	π	-	Elev
-----	---	-------	---	------

BM	12.70	1001.30		
----	-------	---------	--	--

988.60

3+75

4+00

+50

~~5+00~~

BM

12.70 988.60

988.60

1 JUNE 1962

£

£

LAKE ELEVATION

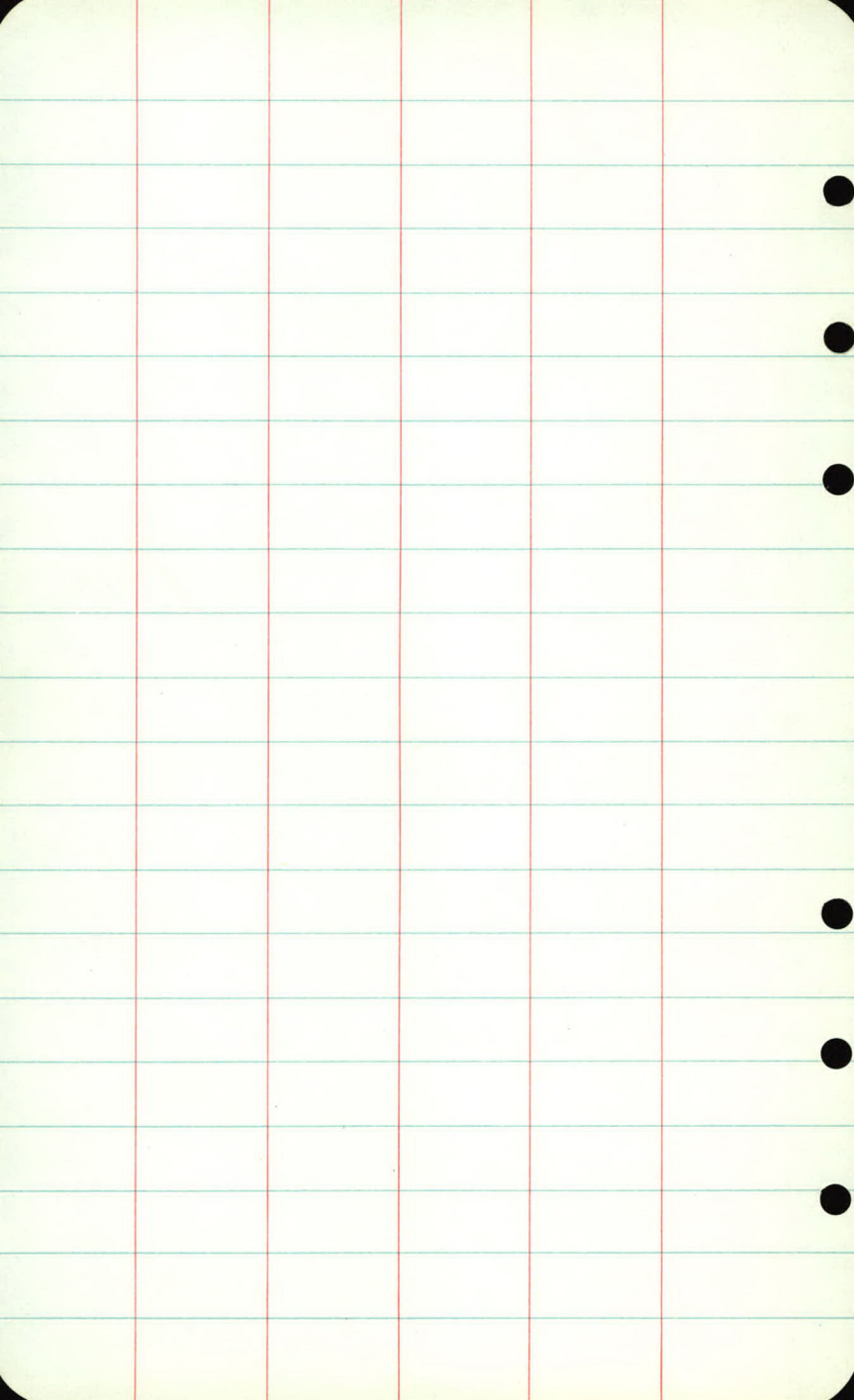
99.3	98.9	94.9	94.0	93.6	93.0	91.9	88.6
2.0	2.4	6.4	7.3	7.8	8.3	9.9	12.7
	11	37	73	100	148	165	177

98.9	98.5	95.5	93.8	93.5	92.2	88.6
2.4	2.8	5.8	7.5	7.8	9.1	12.7
	11	34	64	100	187	214

98.6	98.1	93.8	93.8	93.6	92.3	92.9	92.2
2.8	3.2	7.5	7.8	7.8	8.0	8.4	9.1
	8	42	79	100	142	178	208

88.6
12.7
229

H₂O



Joy PARK
BUILDING LOCATIONS
& ELEVATIONS

OBJECT

AZ

STADIA

π AT $\neq$ JOY ROAD
 ON W LINE OF NE $\frac{1}{4}$

TO SW COR OF
 NE $\frac{1}{4}$

0°00'

TO A A

109°45 $\frac{1}{2}$ 'TO $\neq$ JOY RD.289°45 $\frac{1}{2}$ '

NE COR TOILET

263°50'

SE COR "

260°23 $\frac{1}{2}$ '

KNOLL

242°01'

WELL SHAFT

230°38'

DIST

VERT
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

497

225

228'

231''

228'

STA	+	$\bar{\Delta}$	-	ELEV.	988.50
BM	12.69	1001.19 112.69			<u>100.00</u>
TP	6.14	1005.92 117.52	1.41	999.78 111.28	
			4.06	1001.86	
			10.36	995.56	
TP	7.59	1012.97 124.57	0.54	1005.38 116.98	
			2.50	1010.47	
TP	0.11	1000.15 111.75	12.93	1000.04 111.64	
			11.64	988.51 100.11	

Note: above elevations are based
on normal Lake Elevation
of 988.50.

R76 2/13/62

25 MAY 1961 3.

LT

£

RT

LAKE ELEV.

ROCK

GROUND AT WELL

NE COR TOILET

TOP WELL PIPE

GROUND ON TOP OF KNOLL

ROCK

LAKE ELEV.

