

Dr. 9 Bk. 3

OFFICE OF COUNTY ENGINEER
RAMSEY COUNTY, MINN.

_____ Survey

RAMSEY CO. HOME - STADIA

Railroad Location

From _____ To _____

Road Acc't. No. _____

Date Filed 2-6-59

File Dr. 9 Bk. 3

7A
Ramsey County Home
Stadia

~~Proposed~~ Fair Grounds

Added Stadia June 2, 1955 page 106 -

1955

R
Point Az. Bearing Dist. Cos Sine
At con
Sec 14
192°43' S 12°43' W 587 .97547 .22013

A
221°00' S 41°00' W 497' .75471 .65606

B
235°22' S 55°22' W 650 .56832 .82281

C

At con
Sec 14
315°15½' N 44°44½' W 483 .71029 .70391

D
222°02' S 42°02' W 533 .74276 .66956

E

D
12°08½' N 128°8½' E 712 .97763 .21033

F

+ N	- S	+ E	- W	Lat	B Dep
	572.6		129.25		
				-572.6	-129.3
	375.1		326.06		
				-947.7	-455.4
	369.40		534.8		
				-1317.10 ✓	-990.2 ✓
340.1			340.0		
				+340.1	-340.0
	395.9		356.9		
				-55.8	-696.9
				+340.1	-340.0
696.0		149.75			
				1036.0	-190.2

^C
Point Az. Bearing Dist. Cos. Sine

E

221°54'1/2" S-41°54'1/2" W 645 .74422 .66795

G

F

270°54'1/2" N-89°05'1/2" W 776 .101585 .99987

H

257°11' S 77°-11' W 682 .22183 .97508

I

256°11'1/2" S 76°11'1/2" W 594 .23868 .97110

J

313°49' N 46°11' W 433 .69235 .72156

K

~~~~~

~~~~~

J

143°24' S 36°-36' E 563 .80282 .59622

L

N	S	E	W.	Lot.	Dep.
				+55.8	-696.9
	480		430.8		
				+535.8	-1127.7
				1036.0	-190.2
12.3			776.0		
				1048.3	-966.2
	151.29		-665.00		
				+897.01	-1631.2
	141.78		576.83		
299.79				+755.23	-2208.03
299.79			312.44		
				+1055.02	-2520.47
				+755.23	-2208.03
	451.99	335.67			
				+303.24	-1872.36
	OK.	OK.			

D

D

E

Point

Az

Bearing

Dist

Cos,

Sine

L

114°35'	S 65°25'E	583	.41602	.90936
---------	-----------	-----	--------	--------

M

188°35 $\frac{1}{2}$	S.8°35 $\frac{1}{2}$ W	891	.98878	.14940
----------------------	------------------------	-----	--------	--------

N

⁺ N	⁻ S	⁺ E	⁻ W	Lat	Dep
-------------------	-------------------	-------------------	-------------------	-----	-----

+ 303.24 - 1872.36

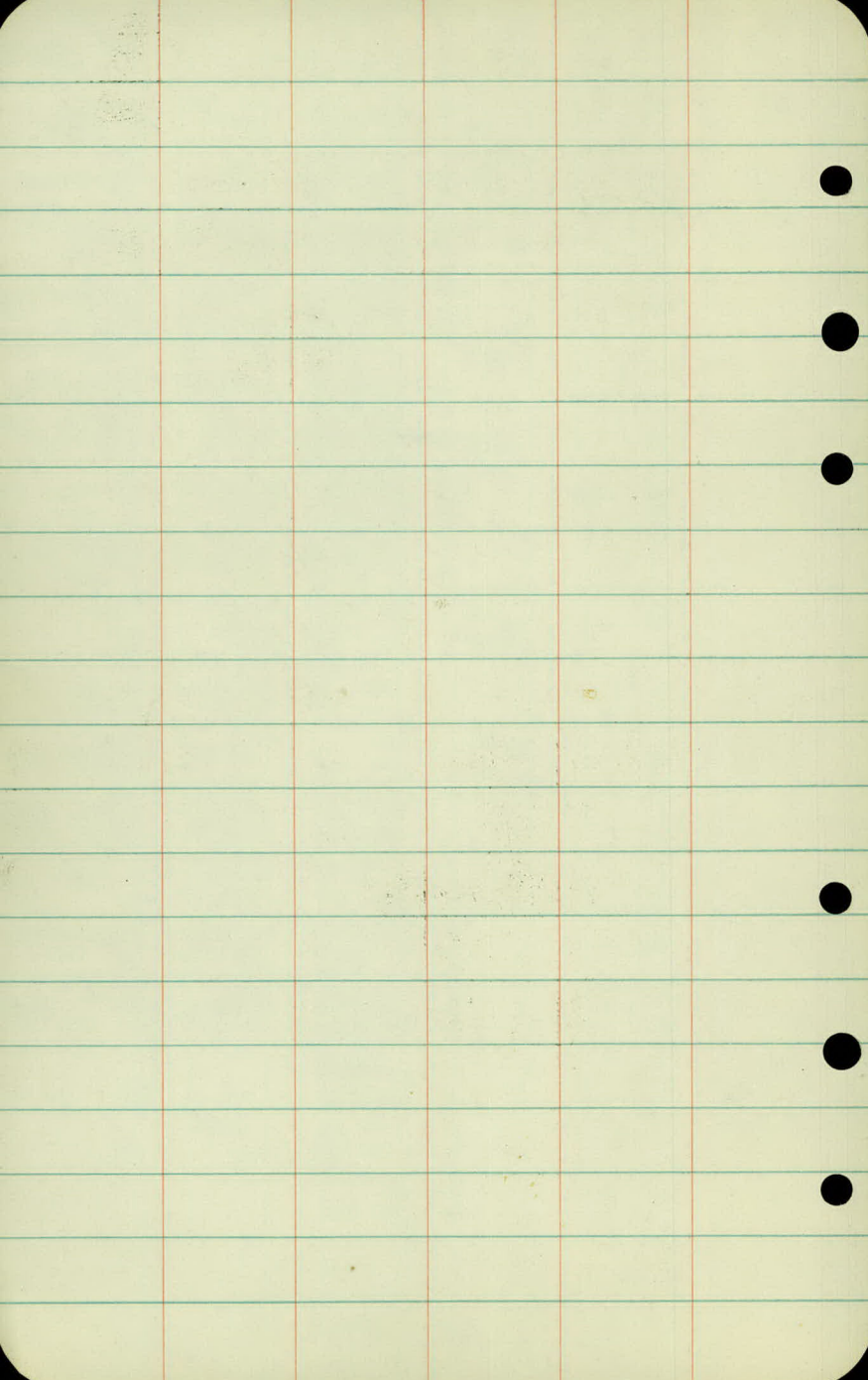
242.54 530.16

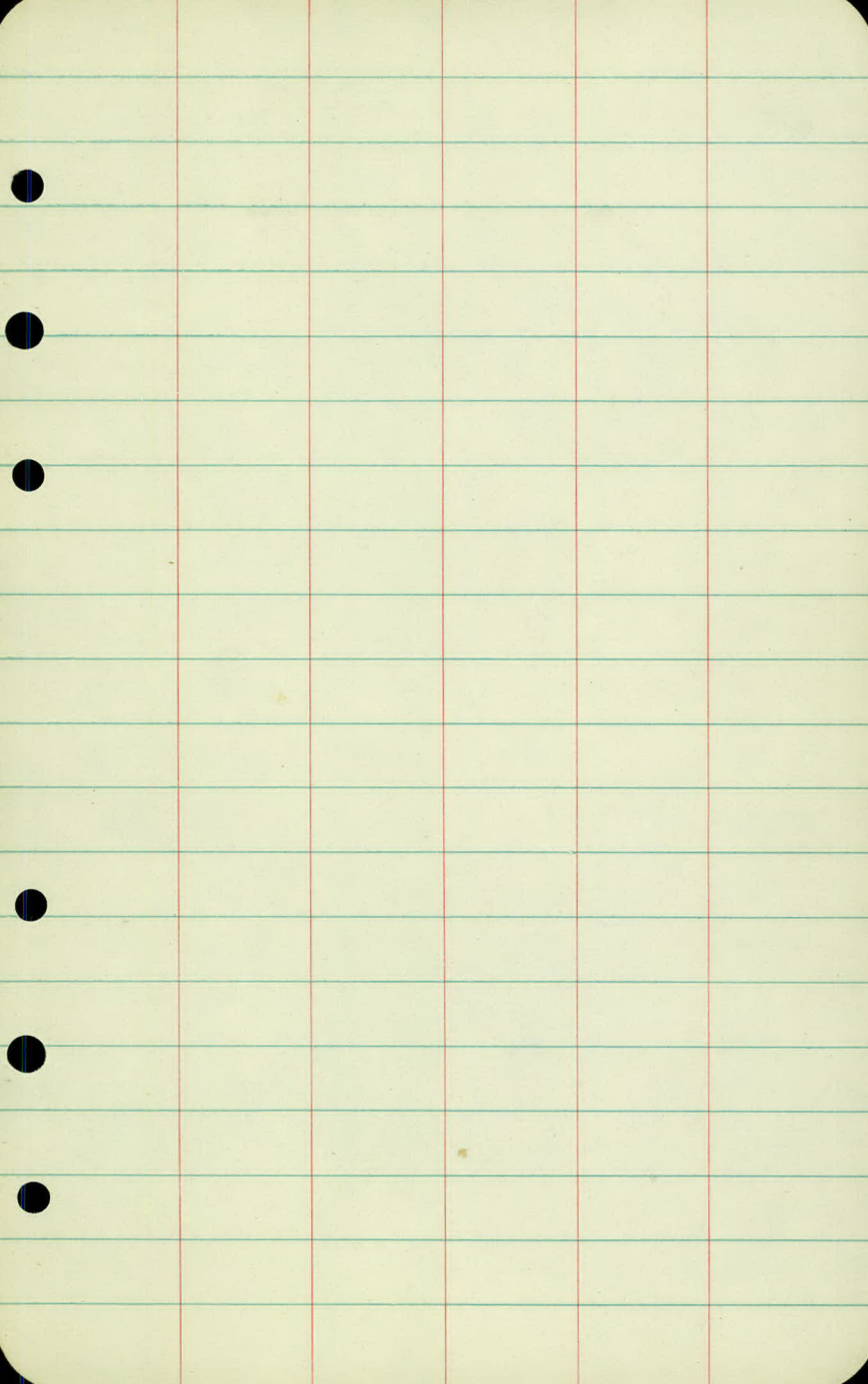
+60.70 - 1342.20

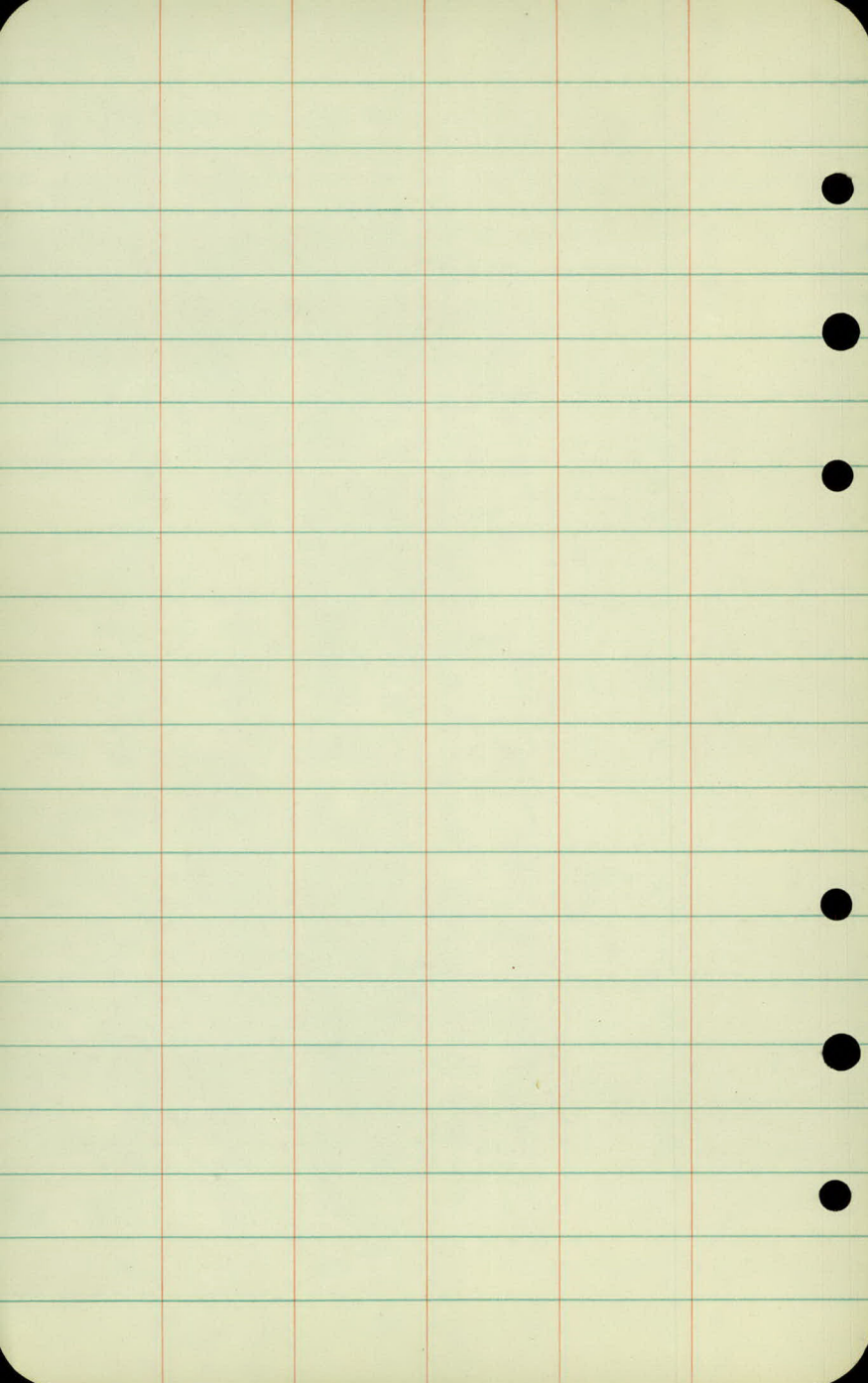
881.00

133.12

- 820.30 - 1475.32







DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV. 4

Stadia

OBJECT

HI 991.33

STADIA

B.M

986.13

AT Ctr Sec 14
~~EAST 1/4 SEC 14~~To West 1/4 Cor 14
CTR SEC 14 270° To Δ P.T.A $192^{\circ} 43'$ 3.05of N ST. PAUL RD $230^{\circ} 38'$ L A2 Top WATER TOWER $272^{\circ} 09\frac{1}{2}'$

EL N. ST. PAUL RD

" " " "

✓ A7
 $56^{\circ} 50'$

SH LDR

 $61^{\circ} 10'$

"

 48°

"

 $106^{\circ} 50'$

"

 236°

"

 $214^{\circ} 30'$

L R RD

 $226^{\circ} 50'$

SH LDR

 223°
 ~~203°~~

"

 $231^{\circ} 0'$
 ~~$231^{\circ} 05'$~~

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

Top. MONT - EAST 1/4 SEC 14

		H.1	5.2		986.13
--	--	-----	-----	--	--------

991.21

587.			0.12		991.05
------	--	--	------	--	--------

104			6.05		85.28
-----	--	--	------	--	-------

			4.9		86.4
--	--	--	-----	--	------

140			6.7		84.6
-----	--	--	-----	--	------

123			7.2		84.1
-----	--	--	-----	--	------

32			5.7		85.6
----	--	--	-----	--	------

47			5.0		86.3
----	--	--	-----	--	------

95			4.8		86.5
----	--	--	-----	--	------

164			4.4		86.9
-----	--	--	-----	--	------

205			4.7		86.6
-----	--	--	-----	--	------

305			5.1		86.2
-----	--	--	-----	--	------

OBJECT

991.33

H2
STADIA

SH LDR

226°

L RD

229°

"

227° 20'

"

231°

L

229° 20'

G. F

225° 50'

"

224° 30'

"

225° 10'

"

222° 30'

"

224° 15'

"

219° 10'

"

222° 50'

"

212° 20'

"

219°

"

198°

"

203° 30'

"

182° 30'

"

153° 40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
342			5.2		86.1 .
376			4.9		86.4 .
480			5.8		85.5 .
46.4			5.9		85.4 .
500			5.45		85.88 .
462			7.1		84.2 .
480			6.0		85.3 .
423			8.3		83.0 .
410			7.2		84.1 .
342			6.9		84.4 .
315			3.1		88.2 .
274			7.1		84.2 .
208			1.9		89.4 .
188			6.4		84.9 .
107			3.6		87.7 .
84			6.7		84.6 .
72			5.8		85.5 .
38			7.5		83.8 .

OBJECT

991.33

AZ.

STADIA

G. E

134° 30'

"

79°

"

165°

"

67°

"

186° 50'

"

176° 10'

"

146°

"

197° 10'

1.8

"

205° 45'

"

157°

"

209° 40'

"

168° 10'

"

188° 20'

"

212° 20'

"

199° 10'

11.1

"

205° 30'

6.7

"

204° 40'

8.3

"

196° 40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
97			12.2		79.1 .
62			12.0		79.3 .
131			6.4		84.9 .
128			11.6		79.7 .
176			6.0		85.3 .
185			11.8		79.5 .
184			7.8		83.5 .
238			0.1		91.2 .
314			3.1		88.2 .
285			10.0		81.3 .
378			5.6		85.7 .
240	-1° 24'	-5.96	10.0	-15.9	75.4 .
285			11.7		79.6 .
463			7.9		73.4 .
360			9.3		82.0 .
464			4.4		86.9 .
3.80			6.4		84.9 .
475			2.6		88.7 .

OBJECT

991.33

AZ.

STADIA

G.E

191°

"

192°

"

186° 30'

"

185° 50'

"

180° 50'

"

179° 25'

"

172° 50'

"

168°

/ 13.5

"

167°

/ 10.8

"

167°

"

167°

"

173° 40'

"

172°

"

180°

"

176° 30'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁸
488			1.9		89.4.
425			9.0		82.3.
445			10.1		81.2.
375			12.1		79.2.
420			11.6		79.7.
340			10.0		81.3.
390			9.9		81.4.
295			15.0		76.3.
373			12.6		78.7.
432			10.8		80.5.
512			7.0		84.3.
465			10.5		80.8.
530			7.2		84.1.
518			9.2		82.1.
550			9.6		81.7.

OBJECT

41

AZ.

STADIA

HI=996.25

ATAPTA

TO CTR SEC 14

 $12^{\circ} 43'$

V AZ

 $286^{\circ} 22'$

B.M

TOP BREATHER

PIPE #2 NO. SIDE

NO. ST. PAUL RD

30'

TO DPT. B

 221°

G.E

 $103^{\circ} 50'$

1'

 $130^{\circ} 20'$

11

88°

1'

 $138^{\circ} 30'$

11

 $36^{\circ} 40'$

11

 242°

11

 $319^{\circ} 20'$

11

 $270^{\circ} 15'$

1'

 $311^{\circ} 45'$

11

 $282^{\circ} 50'$

11

 $270^{\circ} 40'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
		H.1	5.2		²¹ (991.05)
587.			10.12		²⁹ 986.13
WATER - TOWER					
			7.04		³⁷ 989.21
497.			8.84		⁵⁷ (987.35)
133			11.7		84.7.
172			11.3		85.1.
89			6.2		90.2.
103			8.1		88.3.
30			6.2		90.2.
41			5.5		90.9.
82			7.4		89.0.
114			8.2		88.2.
153			12.6		83.8.
190			10.8		85.6.
240	-1° 32'	-6.4	10.0	-16.4	80.0.

OBJECT

996.41

AZ.

STADIA

G.E

286° 20'

"

304° 10'

"

287° 40'

"

SHLDR

330° 30'

"

292° 20'

"

E RD

301° 45'

"

SHLDR

291° 50'

"

"

299° 40'

"

"

284° 20'

"

"

280°

"

274° 20'

"

E RD

273° 10'

"

279° 30' / 10.5

"

270° 50'

"

279°

"

267° 45' / 12.3

"

275° 45'

"

261°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
264	-1° 32'	-7.0	9.0	-16.0	80.4.
333	-1° 10'	-6.8	10.0	-16.8	79.6.
334	-1° 10'	-6.8	9.1	-15.9	80.5.
350			11.2		85.2.
369	-0° 35'	-3.8	10.8	-14.6	81.8.
368			10.8		85.6.
378			11.5		84.9.
393			11.3		85.1.
450			11.5		84.9.
440			11.6		84.8.
524			11.6		84.8.
516			11.2		85.2.
430			12.7		83.7.
500			13.6		82.8.
390			6.8		89.6.
450			14.9		81.5.
335			12.8		83.6.
334			15.0		81.4.

OBJECT

996.41

AZ.

STADIA

G.E

 $2109^{\circ}15'$

4.1

 $2128^{\circ}50'$

G.E

 $270^{\circ}50'$

"

 $244^{\circ}40'$

4.2

 $261^{\circ}45'$

11

 $243^{\circ}25'$

11

 253°

11

 $232^{\circ}30'$

11

 $226^{\circ}15'$

11

 $228^{\circ}50'$

11

 $166^{\circ}10'$

11

 $215^{\circ} / 13.0$

11

 $140^{\circ}14' / 13.2$

11

 $200^{\circ}50' 13.5$

11

 $138^{\circ}10'$

11

 $202^{\circ}20'$

11

 $182^{\circ}10'$

11

 $150^{\circ}15'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	11 ELEV.
102			13.5		82.9 X
244			12.3		84.1 X
278			8.3		88.1
272			7.2		89.2
237			0.8		95.6
220			9.2		87.2
155			6.5		89.9
240			10.5		85.9
98			8.1		88.3
192			7.7		88.7
95			9.8		86.6
244			14.2		82.2
200			8.2		88.2
275			14.7		81.7
296			7.2		89.2
193			12.7		83.7
218			11.7		84.7
450			2.5		93.9

OBJECT

996.4'

AZ.

STADIA

C. E

174°

"

161° 10'

"

169°

"

158° 30'

"

161° 40'

"

154° 40'

"

165° 40'

"

175° 40'

"

183° 20'

"

191° 40'

"

205° 40'

"

215°

"

227° 25'

"

224° 50'

"

237° 20' / 13.5

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ¹²
260			7.1		89.3.
390			6.1		90.3.
352			7.0		89.4.
342			5.6		90.8.
410			6.6		89.8.
443			5.1		91.3.
440			8.9		87.5.
414			11.2		85.2.
388			3.3		93.1.
354			4.3		92.1.
350			12.0		84.4.
348			7.3		89.1.
300			6.8		89.6.
365			12.2		84.2.
363			15.3		81.1.

OBJECT

H.I. = 992.61

STADIA

AT A PT. B

41°

✓ AZ WATER-TOWER 298° 18'

To A PT A

G.E

5° 20'

"

350°

"

332°

"

344° 20'

"

327° 40'

"

338° 40'

"

328° 20'

"/

329° 50'

"/

DITE H

327° 30'

"

319° 30'

"

SHLDR

320° 45'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	13 ELEV
					57
		H.1	5.2		987.35
497.			1.45		32 991.05
70			10.4		82.4.
145			12.5		80.3.
108			10.5		82.3.
345			12.6		80.2.
202			11.2		81.6.
325			12.5		80.3.
311			10.0		82.8.
383			10.2		82.6.
410			9.4		83.4.
430			7.6		85.2.
447			8.0		84.8.

OBJECT

992.77

42

STADIA

G.E

317°

"

304°30'

"

DITCH

317°20'

"

302°40'

"

RD

318°20'

"

SHLDR.

301°

"

~~RD~~

314°20'

"

307°20'

"

305°60'

"

304°10'

"

295°10'

"

298°10'

"

268°10'

"

294°30'

"

254°10'

"

275°40'

"

201°40'

"

121°40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
412			8.1		84.7.
465			8.3		84.5.
408			9.7		83.1.
454			7.8		85.0.
308			6.2		86.6.
442			8.4		84.4.
265			5.0		87.8.
413			14.3		78.5.
190			6.4		86.4.
262			13.5		79.3.
104			8.0		84.8.
260			13.0		79.8.
60			7.8		85.0
166			13.3		79.5.
99			12.2		80.6.
28			5.0		87.8.
52			12.2		80.6.
92			8.2		84.6.

OBJECT

AZ

STADIA

HI = 992.45

A at A'B"

AZ to water tower 298° 18'

To A "C"

235° 22'

Gr. E.

127° 20'

"

134° -

"

117° 10'

"

117° 30'

"

118° 50'

"

116° 10'

"

114° -

"

109° 50'

"

119° -

"

120° 40'

"

126° 30'

"

124° 30'

"

126° 40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
		$H. = 5.1$			987.35
650.			1.06		991.39
133			6.4		86.1.
221			6.3		86.2.
203			6.7		85.8.
275			9.9		82.6.
350			8.8		83.7.
400			5.5		87.0.
490	$+1^{\circ} 17'$	+11.0	6.0	+5.0	97.5.
548	$+1^{\circ} 17'$	+12.3	4.9	+7.4	99.9.
548	$+1^{\circ} 17'$	+12.3	10.3	+2.0	94.5.
514			1.1		91.4.
560			0.8		91.7.
605			+0.7		93.2.
633	$+0^{\circ} 40'$	+7.3	5.0	+2.3	94.8.

OBJECT

992.45

AZI

STADIA

Gr. E.

134° 30'

"

125° 50'

"

123° 30'

"

133° 40'

"

129° 40'

"

135° —

"

133° 40'

"

140° 40'

"

147° 40'

"

145° —

"

143° 50'

Pot Hole (ctr.)

137° 10'

Gr. E.

143° 40'

"

153° 20'

"

156° 45'

"

149° 20'

"

174° 40'

190° —

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ¹⁶
545	+0° 40	+6.3	5.3	+1.0	93.5.
460			5.4		87.1.
370			9.0		83.5.
300			11.8		80.7.
370			12.5		80.0.
420			12.3		80.2.
475			8.5		84.0.
490			10.7		81.8.
450			11.4		81.1.
380			13.1		79.4.
314			13.0		79.5.
375			14.1		78.4.
290			12.7		79.8.
231			13.3		79.2.
170	-1° 45'	- 5.2	8.5	-13.7	78.8.
110			12.4		80.1.
225	-1° 45'	- 6.9	7.7	-14.6	77.9.
255	-1° 45'	- 7.8	6.5	-14.3	78.2.

OBJECT

992.45

AZI

STADIA

G. E

204° 40'

"

217° 10'

"

217° —

"

138° 50'

"

134° 15'

"

130° 40'

"

144° —

"

151° 30'

"

157° 35'

"

156° 40'

"

151° 20'

"

147° 40'

"

146° 30'

"

158° 20'

"

175° 40'

"

192° 50'

"

191° —

"

181° 40'

DIST	VERT. ANGLE	ROD EQUIV	ROD	DIFF	ELEV
264	$-1^{\circ}45'$	- 8.1	6.4	-14.5	78.0 .
177	$-1^{\circ}45'$	- 5.4	9.8	-15.2	77.3 .
113	$-1^{\circ}45'$	- 3.4	11.8	-15.2	77.3 .
602	$+0^{\circ}37'$	+ 6.5	4.0	+ 2.5	995.0 .
635	$+1^{\circ}04'$	+ 11.8	4.0	+ 7.8	1000.3 .
677	$+1^{\circ}04'$	+ 12.6	4.3	+ 8.3	1000.8 .
563			7.3		985.2 .
505			7.8		84.7 .
490	$+1^{\circ}18'$	+ 11.1	9.6	+ 1.5	94.0 .
415	$+1^{\circ}18'$	+ 9.4	4.7	+ 4.7	97.2 .
386			8.3		84.2 .
385			10.4		82.1 .
330			10.3		82.2 .
280			10.7		81.8 .
272			10.8		81.7 .
311			8.9		83.6 .
343			3.2		89.3 .
340	$+1^{\circ}18'$	+ 7.7	5.3	+ 2.4	94.9 .

OBJECT

992.45

AZI

STADIA

G. E.

 $169^{\circ}-$

"

 $161^{\circ}-$

"

 $163^{\circ}25'$

"

 $165^{\circ}20'$

"

 $174^{\circ}20'$

"

 $174^{\circ}40'$

"

 $184^{\circ}-$

"

 $184^{\circ}20'$

"

 $191^{\circ}25'$

"

 $193^{\circ}40'$

"

ATA B

H. 1. 992.40

A2

WATER-TOWER $298^{\circ}18'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV ^{18'}
350	+1° 18'	+7.9	3.7	+4.2	96.7.
365	+1° 18'	+8.3	8.2	+0.1	92.6.
395	+1° 18'	+9.0	3.7	+5.3	97.8.
430	+1° 18'	+9.8	10.1	-0.3	92.2.
445	+1° 18'	+10.1	8.1	+2.0	94.5.
380	+1° 18'	+8.6	1.8	+6.8	99.3.
380	+1° 18'	+8.6	3.0	+5.6	98.1.
435	+1° 18'	+9.9	9.8	+0.1	92.6.
450			1.4		91.1.
390			2.1		90.4.
		H.I.	5.05		987.35

OBJECT

992.40

AZI

STADIA

G.E

SHLDR

298°

"

"

291° 15'

"

¢ RD

288°

"

SHLDR

284° 10'

"

DITCH

297° 20'

"

"

291° 40'

"

296° 20'

"

289° 10'

"

299° 50'

"

281° 50'

"

292° 30'

"

275°

"

283° 30'

"

262°

"

273° 10'

"

253° 45'

"

273°

"

253° 30'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
450			8.4	8	84.0.
513			8.2		84.2.
515			8.0		84.4.
517			8.4		84.0.
444			11.0		81.4.
466			9.0		83.4.
433			9.5		82.9.
445			4.7		87.7.
394			13.0		79.4.
410			3.1		89.3.
321			12.8		79.6.
384			4.4		88.0.
255			13.1		79.3.
358			4.6		87.8.
273			8.2		84.2.
360			8.0		84.4.
205			13.6		78.8.
270			8.7		83.7.

OBJECT

992.4⁰

AZI

STADIA

G.E

246° 20'

"

245° 20'

"

245° 40' - 13.7

"

241° 20'

"

228° 50'

"

226° 50'

"

229° 50'

"

221°

"

229° 20'

"

217° 10'

"

215° 50'

"

209° 40'

"

217° 1.6

"

204° 50'

"

212° 30' 2.7

"

201° 20'

"

207° 30'

"

212° 20'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
188			13.6		78.8.
284			9.3		83.1.
146			14.4		78.0.
387			3.2		89.2.
303			8.2		84.2.
375			3.2		89.2.
200			13.2		79.2.
456			2.2		90.2.
277			10.3		82.1.
383			6.1		86.3.
322			11.1		81.3.
380			6.9		85.5.
467			+0.7		93.1.
414			3.2		89.2.
538			0.00		92.4.
483			1.6		90.8.
510			3.3		89.1.
438			2.1		90.3.

OBJECT

992.40

AZI

STADIA

G. E

 225°

"

 $227^{\circ} 20'$

"

 $234^{\circ} 20'$

"

 239°

"

 250°

"

 $255^{\circ} 40'$

"

 $260^{\circ} 40'$

"

 $265^{\circ} 30'$

"

 $267^{\circ} 30'$

"

 $273^{\circ} 10'$

"

 $270^{\circ} 15'$

"

 277°

"

 $271^{\circ} 30'$

"

 $278^{\circ} 45'$

"

SHLDR

 $278^{\circ} 30'$

"

E RD

 279°

"

SHLDR

 $278^{\circ} 20'$

"

"

 $271^{\circ} 50'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV ²⁾
520			8.9		83.7.
443			3.5		88.9.
470			6.6		85.8.
428			4.6		87.8.
433			5.4		87.0.
396			7.0		85.4.
456			4.0		88.4.
443			4.3		88.1.
523			4.6		87.8.
474			5.3		87.1.
612			5.5		86.9.
534			4.7		87.7.
630			8.9		83.5.
550			9.3		83.1.
564			8.3		84.1.
576			8.1		84.3.
604			8.3		84.1.
678			8.4		84.0.

OBJECT

992.40

AZI

STADIA

G.E. & RD

270°-20'

" SHLDR

268°-30'

" 266°-55'

HI = 996.44 ✓

AT Δ PT. C

To Δ PT. B

55°-22'

✓ AZ WATER-TOWER 315°-13'

G.E.

110°-20'

" 121°-13.7

" 93°-30'

" 62°

" 59°-20'

" 45°-10'

" 10°

" 29°-20'

" 342°-10'

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV

22

678

8.2

84.2

679

8.5

83.9

700

9.4

83.0

4.1

5.05

991.39

648.

8.97

987.47

202

11.8

84.6

138

14.4

82.0

116

11.8

84.6

115

9.0

87.4

64

9.3

87.1

126

6.5

89.9

105

8.4

88.0

142

5.7

90.7

130

7.6

88.8

OBJECT

996.44

AZI

STADIA

G.E

 $12^{\circ} 45'$

0.5

"

 334°

"

 $5^{\circ} 50'$

"

 $358^{\circ} 20'$

"

 $331^{\circ} 30'$

"

 $349^{\circ} 45'$

1.5

"

 $331^{\circ} 50'$

"

 355°

0.6

"

 $341^{\circ} 20'$

"

 05°

"

 350°

7.3

"

 $354^{\circ} 40'$

"

 $342^{\circ} 20'$

"

SHLDR

 324°

"

 321°

"

£ RD

 317°

"

SHLDR

 315°

"

 315°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
180			+0.4		96.8.
198			5.7		90.7.
235	+1° 03'	+4.3	4.0	+0.3	96.7.
280	+1° 03'	+5.1	7.5	-2.4	94.0.
278			9.0		87.4.
246			0.3		96.1.
340			9.7		86.7.
200			+0.4		96.8.
350			7.6		88.8.
200	+1° 23'	+4.8	3.0	+1.8	98.2.
310			5.7		90.7.
236	+0° 45'	+3.1	2.0	+1.1	97.5.
273			4.8		91.6.
365			13.1		83.3.
355	-1° 36'	-9.9	4.5	-14.4	82.0.
380			13.4		83.0.
394			13.8		82.6.
346			11.7		84.7.

OBJECT

996.44

AZI

STADIA

G.E

SHLDR

308° 25'

"

303° 20'

"

317° 30'

"

308° 40'

"

318°

"

309° 40'

"

319°

"

303°

"

335° 40'

"

309° 15'

"

33°

"

299° 10'

"

288° 15'

"

303° 15'

"

306°

"

298° 30'

"

264° 20'

"

306°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
371	-1°	-6.5	8.0	-14.5	81.9.
372	-1°	-6.5	9.9	-16.4	80.0.
283			10.9		85.5.
350			11.8		84.6.
200			7.7		88.7.
290			11.8		84.6.
131			8.7		87.7.
302	-1°	-5.3	8.3	-13.6	82.8.
57			10.6		85.8.
235			8.0		88.4.
21			6.5		89.9.
266			10.1		86.3.
247			11.2		85.2.
217			6.7		89.7.
178			5.5		90.9.
154			5.8		90.6.
60			12.9		83.5.
102			11.3		85.1.

OBJECT

996.44

AZI

STADIA

G. E

268° 30'

"

267° 10'

"

275° 20'

"

268° 20'

"

273° 30'

"

281° 10'

"

276° 50'

"

290° 40'

"

292° 40'

"

274° 15'

"

293° / 12.6

"

291° 10'

"

DITCH

289° 40'

"

282° 40'

"

SHLDR

292° 40'

"

E RD

291° 30'

"

SHLDR

288° 50'

"

275° 40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV ²⁵
107	$-1^{\circ} 36'$	-3.0	11.8	-14.8	81.6.
185	$-2^{\circ} 04'$	-6.7	11.0	-17.7	78.7.
232	$-2^{\circ} 04'$	-8.4	9.2	-17.6	78.8.
246	$-2^{\circ} 04'$	-8.9	12.0	-20.9	75.5.
296	$-2^{\circ} 04'$	-10.7	9.5	-20.2	76.2.
312	$-2^{\circ} 04'$	-11.2	6.6	-17.8	78.6.
360	$-2^{\circ} 02'$	-12.8	10.0	-22.8	73.6.
335	$-2^{\circ} 02'$	-11.9	7.5	-19.4	77.0.
364	$-1^{\circ} 36'$	-10.2	9.0	-19.2	77.2.
408	$-1^{\circ} 36'$	-11.4	12.0	-23.4	73.0.
375			14.5		81.9.
395	-1°	-6.9	7.7	-14.6	81.8.
413	-1°	-7.2	11.4	-18.6	77.8.
405	$-1^{\circ} 36'$	-11.3	8.5	-19.8	76.6.
410	-1°	-7.1	9.1	-16.2	80.2.
433	-1°	-7.5	8.8	-16.3	80.1.
462	-1°	-8.0	9.1	-17.1	79.3.
452	$-1^{\circ} 36'$	-12.6	9.0	-20.6	75.8.

OBJECT

996.44

AZI

STADIA

G. E SHLDR $280^{\circ}30'$ " 281° " Φ RD $278^{\circ}10'$ " $274^{\circ}20'$ " SHLDR $276^{\circ}10'$ " $269^{\circ}20'$ " DITCH $274^{\circ}40'$ " " 269° " Φ RD 269° " SHLDR 264° " Φ RD $267^{\circ}40'$ " " $264^{\circ}35'$ " SHLDR $264^{\circ}35'$ " 263° " $265^{\circ}10'$ " 264° " 261° " $268^{\circ}30'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ²⁶
513	-1°	-8.9	10.3	-19.2	77.2
445	-1°	-7.7	8.6	-16.3	80.1
515	-1°	-9.0	10.6	-19.6	76.8
495	-1°	-8.6	9.1	-17.7	78.7
508	-1°	-8.8	11.3	-20.1	76.3
550	-1°	-9.6	8.1	-17.7	78.7
510	-1°	-8.9	13.4	-22.3	74.1
574	-1°36'	-16.0	8.8	-24.8	71.6
608	-1°36'	-17.0	6.7	-23.7	72.7
663	-1°36'	-18.5	7.8	-26.3	70.1
655	-1°36'	-18.3	6.9	-25.2	71.2
680	-1°36'	-19.0	7.2	-26.2	70.2
705	-1°36'	-19.7	7.2	-26.9	69.5
644	-2°	-22.5	10.3	-32.8	63.6
600	-2°	-20.9	8.5	-29.4	67.0
530	-2°	-18.5	10.2	-28.7	67.7
530	-2°	-18.5	13.0	-31.5	64.9
480	-2°	-16.8	6.8	-23.6	72.8

OBJECT

996.44

AZI

STADIA

G. E		260° 20'
" POT. HOLE		267° 20'
" "	"	258° 20'
" "	"	273° 40'
" "	"	249° 45'
" "	"	272° 30'
" "	"	248°
" "	"	264° 40'
G. E	"	252° 20'
"		259°
"		250° 40'
"		253°
"		247° 10'
"		244° 40'
"		223°
"		191° 50'
"		150° 20'
"		135° 50'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 27
440	-2°	-15.4	11.5	-26.9	69.5.
385	-2°	-13.4	10.8	-24.2	72.2.
390	-2°	-13.6	10.7	-24.3	72.1.
373	-2°	-13.0	11.3	-24.3	72.1.
365	-2°	-12.7	11.9	-24.6	71.8.
311	-3°04'	-16.6	8.0	-24.6	71.8.
333	-3°04'	-17.8	5.9	-23.7	72.7.
268	-3°04'	-14.3	9.9	-24.2	72.2.
292	-2°47'	-14.2	10.0	-24.2	72.2.
200	-4°31'	-15.7	6.3	-22.0	74.4.
178	-2°	-6.2	12.3	-18.5	77.9.
131	-4°31'	-10.3	10.2	-20.5	75.9.
225	-4°31'	-17.7	2.2	-19.9	76.5.
65	-4°31'	-5.1	10.7	-15.8	80.6.
160	-4°31'	-12.6	8.8	-21.4	75.0.
94	-4°31'	-7.4	10.8	-18.2	78.2.
106	-4°31'	-8.3	7.6	-15.9	80.5.
123			13.2		83.2.

OBJECT

996.42

STADIA

G.E. $146^{\circ}30'$ " $117^{\circ}40'$ " $97^{\circ}30'$ " 143°

T.P. 0.55 986.28 10.71 985.73

B.M. 7.30 978.98 (978.96)

H.I. = 991.33

AT Top MONT ~~E-1/4-19~~^{SE} Ctr sec 14To "West 1/4^{SE} Sec 14 270° ✓ AZ To. WATER-TOWER $272^{\circ}09\frac{1}{2}'$ To APT. D $315^{\circ}15\frac{1}{2}'$ G.E. To E $43^{\circ}30'$ " " $40^{\circ}45'$ " " $36^{\circ}50'$ " " $32^{\circ}40'$ " " $248^{\circ}50'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV ²⁸
31			8.5		87.9.
85			10.3		86.1.
57			7.4		89.0.
9			4.2		92.2.

Spike in PP #3 N.E. Cor Ripley St & N. St. Paul Rd

4.1

5.2

986.13

483.

13.12

²¹
978.19

170

13.2

78.1.

118

13.4

77.9.

80

10.1

81.2.

45

7.3

84.0.

35

6.2

85.1.

OBJECT

99h³³

AZI

STADIA

G.E

33° 20'

"

22° 30'

"

358°

"

286°

"

256°

"

244° 50'

"

240° 40'

"

237° 45'

"

235° 25'

"

232° 50'

"

232° 50'

"

234° 10'

"

236° 10'

"

241°

"

FC

359° 30'

"

"

359° 30'

"

337° 40'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV 29
137	$-1^{\circ}43'$	-4.1	9.8	-13.9	77.4.
89			9.7		81.6.
45			4.1		87.2.
50			1.1		90.2.
98			0.7		90.6.
160			2.7		88.6.
230			3.2		88.1.
320			1.8		89.5.
390			6.5		84.8.
400			8.9		82.4.
340			6.9		84.4.
247			6.9		84.4.
160			6.3		85.0.
73			6.3		85.0.
		3-31-55			
90			6.9		84.4.
170			9.9		81.4.
77			7.7		83.6.

OBJECT

991.33

AZI

STADIA

G.E

 $343^{\circ}50'$

"

 299°

"

 $314^{\circ}30'$

"

 $280^{\circ}45'$

"

 $296^{\circ}15'$

"

 267°

"

 $256^{\circ}25'$

"

 280°

"

 $250^{\circ}30'$

"

 270°

"

 247°

"

 260°

"

 $245^{\circ}50'$

"

 $255^{\circ}40'$

"

 $242^{\circ}30'$

"

 $247^{\circ}10'$

"

 253°

"

 $261^{\circ}50'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 30
155	$-1^{\circ}43'$	-4.7	9.2	-13.9	77.4.
85			2.6		88.7.
166			12.0		79.3.
106			2.2		89.1.
192			11.7		79.6.
147			5.4		85.9.
214			5.8		85.5.
230			12.9		78.4.
300	$+1^{\circ}09'$	+6.0	5.5	+0.5	91.8.
295			10.5		80.8.
370	$+1^{\circ}09'$	+7.4	9.1	-1.7	89.6.
367			0.9		90.4.
438	$+0^{\circ}48'$	+6.1	11.6	-5.0	86.3.
432	$+0^{\circ}48'$	+6.0	6.6	-0.6	90.7.
543			7.3		84.0.
543	$+0^{\circ}48'$	+7.6	13.6	-6.0	85.3.
505	$+0^{\circ}48'$	+7.1	13.2	-6.1	85.2.
447	$+0^{\circ}48'$	+6.3	1.9	+4.4	95.7.

OBJECT

991.33

AZI

STADIA

B.E

 $272^{\circ}15'$

"

 271°

983.28

At Δ "D"to Mont Ctr. sec 1A $135^{\circ}5\frac{1}{2}'$.AZ to Water tower $262^{\circ}52'$ To Δ PT-E- $222^{\circ}02'$ -To Δ PT-F- $12^{\circ}08\frac{1}{4}'$.

G.E

 $203^{\circ}10'$

"

 $210^{\circ}40'$

"

 $220^{\circ}50'$

"

 $157^{\circ}20'$

"

 210°

"

 $173^{\circ}40'$

"

 $192^{\circ}50'$

"

 $183^{\circ}10'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 3'
374	-0° 48' ±	5.2	10.4	-15.6 -5.2	75.7 86.1 ✓
448	-0° 48' ±	6.3	4.0	-10.3 +2.3	81.0 93.6 ✓
	H.I -		5.12		(978.19)
485	+1° 10'	+9.9	7.0	+2.9	986.21
533	+0° 50'	+7.7	5.0	+2.7	985.98
712			12.30		970.98
304	+1° 08'	+6.1	1.4	+4.7	88.0
260	+1° 08'	+5.1	2.9	+2.2	85.5
215	+1° 08'	+4.3	3.5	+0.8	84.1
253			8.0		75.3
186	+1° 08'	+3.7	1.4	+2.3	85.6
281			5.9		77.4
182	+1° 08'	+3.6	2.0	+1.6	84.9
245			4.4		78.9

OBJECT

HI = 983.28 AZI

STADIA

G.E

194°34'

"

204°30'

"

177°

"

162°40'

"

Fc

140°30'

"

Fc

107°20'

"

Fc-COR

109°45'

"

Fc

114°45'

"

123°10'

B.M

G.E

134°50'

"

140°30'

"

Fc

128°50'

"

Fc

122°

"

104°10'

"

87°

11.3

"

61°20'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
				-7.3	76.0
254	$-1^{\circ} 08'$	5.0	2.3	+2.7	86.0
228	-1°	4.0	1.3	-5.3	78.0
				+2.7	86.0
200			5.7		77.6
174			6.3		77.0
164			7.9		75.4
410			6.8		76.5
360			1.2		82.1
294			7.6		75.7
303			7.1		76.2
SPIKE IN Top Fc COR POST 12.05					971.23
					971.38
290			4.6		78.7
250			7.3		76.0
200			7.9		75.4
232			5.5		77.8
254			9.1		74.2
205			12.3		71.0
173	$-1^{\circ} 13'$	-3.7	10.6	-14.3	69.0

OBJECT

983.28

AZI

STADIA

G.E

 $42^{\circ}10'$

11

 $29^{\circ}50'$

11

 $42^{\circ}50'$

11

Fc

 45°

11

 $51^{\circ}10'$

11

Fc-COR

 $54^{\circ}40'$

11

 65°

11

Fc

 62°

11

"

 $75^{\circ}45'$

11

 57°

11

 $76^{\circ}20'$

11

 $50^{\circ}25'$

11

 $90^{\circ}15'$

11

Fc

 $53^{\circ}10'$

11

"

 $100^{\circ}20'$

11

 $99^{\circ}20'$

11

 $60^{\circ}40'$

11

 $89^{\circ}10'$

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 33
220	$-1^{\circ}13'$	-4.7	13.0	-17.7	65.6 .
228	$-1^{\circ}13'$	-5.9	13.3	-19.2	64.1 .
258	$-1^{\circ}13'$	-5.5	11.7	-17.2	66.1 .
343	$-1^{\circ}13'$	-7.3	10.9	-18.2	65.1 .
295	$-1^{\circ}13'$	-6.3	10.7	-17.0	66.3 .
413	$-1^{\circ}13'$	-8.8	8.8	-17.6	65.7 .
292	$-1^{\circ}13'$	-6.2	9.7	-15.9	67.4 .
384	$-1^{\circ}13'$	-8.1	12.7	-20.8	62.5 .
350	$-1^{\circ}13'$	-7.4	8.8	-16.2	67.1 .
343	$-1^{\circ}13'$	-7.3	13.6	-20.9	62.4 .
311	$-1^{\circ}13'$	-6.6	8.4	-15.0	68.3 .
493			10.8		72.5 .
342			10.0		73.3
523			14.2		69.1 .
346			4.6		78.7 .
290			5.5		77.8 .
478	$-1^{\circ}13'$	-10.1	5.8	-15.9	67.4 .
270			7.3		76.0 .

OBJECT

983.28

AZI

STADIA

G. F

 71°

"

 81°

"

 83°

"

 70°

"

 $97^{\circ} 20'$

"

 $57^{\circ} 30'$

"

 $82^{\circ} 20'$

"

 108°

"

 118°

"

 $164^{\circ} 45'$

"

 $155^{\circ} 45'$

"

 $248^{\circ} 30'$

"

Fc

 $197^{\circ} 30'$

"

 $238^{\circ} 10'$

"

Fc

 $225^{\circ} 50'$

"

 260°

"

Fc

 239°

"

 $266^{\circ} 20'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ³⁴
440	-1° 13' - 9.3		8.2	-17.5	65.8 .
260			9.8		73.5 .
410	-1° 13' - 8.7		8.2	-16.9	66.4 .
240			10.5		72.8 .
414			12.3		71.0 .
235			11.9		71.4 .
140			12.4		70.9 .
200			7.2		76.1 .
94			8.9		74.4 .
90			3.6		79.7 .
28			5.0		78.3 .
70			13.3		70.0 .
135			1.2		82.1 .
112			12.6		70.7 .
180			1.9		81.4 .
125			15.2		68.1 .
253			11.6		71.7 .
168			13.2		70.1 .

OBJECT

983.28

AZI

STADIA

G.E	Fc	243° 40'	
"		267° 50'	
"		270° 10'	
"	Fc	246° 55'	
"		270° 40'	/ 13.5
"	Fc	248° 15'	
"		271°	
"	Fc	250° 30'	
"	Fc	270° 40'	
"	Fc	252° 20'	/ 11.4
"	"	278° 30'	
"	" COR	254°	
"		279° 10'	
"		280°	
"	Fc COR	289° 25'	
"		281° 35'	
"	Fc	292° 20'	
"		284° 40'	

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ³⁵
310			11.8		71.5 .
231	$-1^{\circ} 13'$	-4.9	11.1	-16.0	67.3 .
340	$-1^{\circ} 13'$	-7.2	10.1	-17.3	66.0 .
355			10.2		73.1 .
405			15.5		67.8 .
400			11.5		71.8 .
481	$-1^{\circ} 13'$	-10.2	6.6	-16.8	66.5 .
460			10.8		72.5 .
580	$-1^{\circ} 13'$	-12.3	7.7	-20.0	63.3 .
530			14.1		69.2 .
585	$-1^{\circ} 13'$	-12.4	10.5	-22.9	60.4 .
600	$-1^{\circ} 13'$	-12.7	4.3	-17.0	66.3 .
525	$-1^{\circ} 13'$	-11.1	8.3	-19.4	63.9 .
480	$-1^{\circ} 13'$	-10.2	8.0	-18.2	65.1 .
613	$-1^{\circ} 13'$	-13.0	9.2	-22.2	61.1 .
411	$-1^{\circ} 13'$	-8.7	8.9	-17.6	65.7 .
622	$-1^{\circ} 13'$	-13.2	8.0	-21.2	62.1 .
342	$-1^{\circ} 13'$	-7.3	13.1	-20.4	62.9 .

OBJECT

983.28

AZI

STADIA

G.E	Fe	295°-15'
"		292°-22'
"	Fe	300°-10'
"		304°-15'
"	Fe	305°-10'
"		314°
"	Fe	314°-30'
"		302°-50'
"	Fe	325°-10'
"		286°-40'
"	Fe	335°-30'
"		289°-45'
"	Fe	350°-40'
"		331°-30'
"	Fe	5°-30'
"		354°-40'
"		5°-30'
"		358°-30'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 36
560	$-1^{\circ}13'$	- 11.9	10.6	-22.5	60.8 .
245	$-2^{\circ}42'$	- 11.5	8.0	-19.5	63.8 .
478	$-2^{\circ}39'$	- 22.1	1.1	-23.2	60.1 .
277	$-2^{\circ}39'$	- 12.8	6.0	-18.8	64.5 .
417	$-2^{\circ}39'$	- 19.3	6.0	-25.3	58.0 .
235	$-2^{\circ}39'$	- 10.9	11.4	-22.3	61.0 .
347	$-2^{\circ}39'$	- 16.0	3.2	-19.2	64.1 .
179	$-2^{\circ}39'$	- 8.3	13.5	-21.8	61.5 .
294	$-2^{\circ}39'$	- 13.6	8.7	-22.3	61.0 .
169	$-2^{\circ}39'$	- 7.8	12.3	-20.1	63.2 .
287	$-2^{\circ}39'$	- 13.3	11.2	-24.5	58.8 .
104	$-2^{\circ}39'$	- 4.8	13.6	-18.4	64.9 .
245	$-2^{\circ}39'$	- 11.3	16.2	-21.5	61.8 .
127	$-2^{\circ}39'$	- 5.9	14.0	-19.9	63.4 .
240	$-2^{\circ}39'$	- 11.1	5.5	-16.6	66.7 .
86			14.2		69.1 .
198	$-1^{\circ}13'$	- 4.2	10.0	-14.2	69.1 .
129			13.6		69.7 .

OBJECT

983.28

AZI

STADIA

G. E

 $18^{\circ}10'$

"

 $20^{\circ}30'$

"

 $26^{\circ}20'$

"

 41°

"

 53°

"

 $98^{\circ}30'$

"

 295°

H. 991.30

AT APT. E

TO APT. D

 $42^{\circ}02' - 1055$

✓ AZ

 $274^{\circ}44'$

TO APT. G

 $221^{\circ}54\frac{1}{2}'$

G. E

 $63^{\circ}40'$

"

 36°

"

 $58^{\circ}15'$

"

 $21^{\circ}30'$

"

 $41^{\circ}50'$

	VERT. ANGLE 2° 30'	ROD EQUIV.	ROD	DIFF.	ELEV 37
253	-2° 30'	- 11.0	7.7	-18.7	64.6.
125			11.5		71.8.
173	-1° 13'	- 3.7	11.9	-15.6	67.7.
61			10.4		72.9.
125			11.5		71.8.
23			6.1		77.2.
19			6.3		77.0.
	H-1		5.32		985.98
5.33			13.21		978.09
To WATER - TOWER					978.26
645.			13.04		978.26
230			8.0		83.3.
240	-2° 30'	- 10.5	6.9	-17.4	73.9.
194			9.4		81.9.
201	-2° 30'	- 8.8	6.7	-15.5	75.8.
146			8.3		83.0.

OBJECT

991.30

AZI

STADIA

G. E

 $357^{\circ} 20'$

"

 $10^{\circ} 10'$

"

 $337^{\circ} 27'$

"

 $338^{\circ} 20'$

"

 $320^{\circ} 30'$

"

 $310^{\circ} 10'$

"

 $307^{\circ} 15'$

"

 $291^{\circ} 50'$

"

 $273^{\circ} 40'$

"

 $250^{\circ} 50'$

"

 $279^{\circ} 30'$

"

 $238^{\circ} 30'$

"

 $249^{\circ} 30'$

"

 $222^{\circ} 25'$

"

 $294^{\circ} 10'$

"

 $212^{\circ} 10'$

"

 $35^{\circ} 30'$

"

 $208^{\circ} 40'$

						38
DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV	
184	-2°30'	-8.0	5.6	-13.6	77.7	
113			7.8		83.5	
193	-2°30'	-8.4	6.6	-14.4	76.9	
123			9.5		81.8	
225	-2°30'	-9.8	10.3	-20.1	71.2	
170	-2°30'	-7.4	9.2	-17.1	74.2	
278	-2°30'	-12.1	12.1	-24.2	67.1	
236	-2°30'	-10.3	11.3	-21.6	69.7	
222	-2°30'	-9.7	10.9	-20.6	70.7	
238	-2°30'	-10.4	6.1	-16.5	74.8	
130.	-2°30'	-5.7	12.2	-17.9	73.4	
188	-2°30'	-8.2	5.8	-14.0	77.3	
112	-2°30'	-4.9	9.7	-14.6	76.7	
152			8.7		82.6	
59			9.7		81.6	
169			9.3		82.0	
36			4.3		87.0	
135			8.0		83.3	

OBJECT

991.30

AZI

STADIA

G. E

 $58^{\circ} 20'$

"

 $202^{\circ} 20'$

"

 $76^{\circ} 10'$

"

 $141^{\circ} 15'$

"

 91°

"

 $88^{\circ} 35'$

"

 $114^{\circ} 30'$

"

 126°

"

 $126^{\circ} 45'$

"

 $93^{\circ} 10'$

"

 $132^{\circ} 40'$

"

 132°

"

 $144^{\circ} 50'$

"

 $133^{\circ} 50'$

"

 $145^{\circ} 30'$

"

 $135^{\circ} 30'$

"

 $147^{\circ} 30'$

"

 $140^{\circ} 20'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
111			4.1		87.2.
93			8.2		83.1.
215			3.9		87.4.
36			4.8		86.5.
196			0.8		90.5.
85			3.1		88.2.
233			6.5		84.8.
71			6.4		84.9.
233			8.3		83.0.
132			4.0		87.3.
183			11.8		79.5.
394			9.2		82.1.
388			9.5		81.8.
334			9.8		81.5.
347			8.3		83.0.
268			5.5		85.8.
284			6.5		84.8.
226			8.3		83.0.

OBJECT

991.30

AZI

STADIA

G. E

 $149^{\circ}50'$

"

 149°

"

 $159^{\circ}30'$

"

 $158^{\circ}35'$

L

 186°

13.7

"

 $257^{\circ}50'$

"

 $204^{\circ}10'$

L

 $190^{\circ}10'$

"

 205°

"

 $202^{\circ}50'$

L

 $223^{\circ}10'$

L

 $217^{\circ}20'$

L

 228°

L

 $216^{\circ}20'$

L

 $210^{\circ}50'$

"

 203°

L

 $201^{\circ}40'$

L

 $190^{\circ}35'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
260			8.9		82.4 .
195			13.0		78.3 .
133			13.8		77.5 .
208	$-2^{\circ}30'$	-9.1	4.7	-13.8	77.5 .
162			15.7		75.6 .
180	$-2^{\circ}30'$	-7.8	2.7	-10.5	80.8 .
215	$-2^{\circ}30'$	-9.4	6.8	-16.2	75.1 .
290	$-2^{\circ}30'$	-12.6	1.9	-14.5	76.8 .
253	$-2^{\circ}30'$	-11.0	5.9	-16.9	74.4 .
328	$-2^{\circ}30'$	-14.3	0.9	-15.2	76.1 .
235	$-2^{\circ}30'$	-10.2	6.9	-17.1	74.2 .
331	$-2^{\circ}30'$	-14.4	1.5	-15.9	75.4 .
300	$-2^{\circ}30'$	-13.1	4.1	-17.2	74.1 .
386			14.2		77.1 .
438			13.2		78.1 .
350			13.9		77.4 .
400			11.0		80.3 .
324			12.3		79.0 .

OBJECT

991.30

AZI

STADIA

G. E

 $192^{\circ}30'$

11

 $173^{\circ}50'$

11

 $183^{\circ}30'$

11

 $166^{\circ}20'$

11

 $172^{\circ}50'$

11

 $161^{\circ}10'$

11

 $180^{\circ}30'$

11

 $164^{\circ}10'$

11

 $172^{\circ}25'$

11

 $175^{\circ}45'$

11

 $186^{\circ}10'$

11

 $187^{\circ}10'$

11

 $195^{\circ}30'$

11

 $186^{\circ}40'$

11

 206°

11

 $190^{\circ}20'$ 11.4

11

 $203^{\circ}20'$

11

 $195^{\circ}10'$

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV. ⁴¹

377

11.3

80.0 .

330

10.7

80.6 .

370

8.7

82.6 .

348

4.3

87.0 .

390

7.3

84.0 .

400

4.0

87.3 .

478

10.3

81.0 .

427

7.5

83.8 .

427

4.4

86.9 .

474

8.7

82.6 .

446

11.6

79.7 .

565

9.2

82.1 .

460

12.3

79.0 .

535

6.7

84.6 .

510

14.2

77.1 .

584

14.3

77.0 .

575 -0° 37' -6.2

10.0

-16.2

75.1 .

612 -0° 37' -6.6

10.0

-16.6

74.7 .

OBJECT

991.30

AZI

STADIA

G. E

 197°

"

 $192^{\circ} 20'$

"

 190°

"

 $197^{\circ} 40'$

"

 $200^{\circ} 45'$

"

 234°

"

 $237^{\circ} 40'$

"

 $239^{\circ} 30'$

"

 $236^{\circ} 15'$

H.L. 983.46

AT Δ PTGTo Δ PT. E $41^{\circ} 54\frac{1}{2}'$

✓ AZ

 $296^{\circ} 23'$ $313^{\circ} 21\frac{1}{2}'$

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
545	-0°-37'	-5.9	9.5	-15.4	75.9 .
665			14.2		77.1 .
510			9.6		81.7 .
708			10.7		80.6 .
623	-1°	-10.8	5.0	-15.8	75.5 .
366			14.2		77.1 .
397			9.0		82.3 .
418			9.4		81.9 .
434			8.1		83.2 .
		H.1	5.2		978.26
647	+0.40	+7.50	5.0	+2.5	985.96
To - WATER TOWER					
P.O.T. on 1/4 sec. Line & Sewer Line					

OBJECT

983.46

AZI

STADIA

G.E

 $30^{\circ} 50'$

"

 $50^{\circ} 20'$

"

 18°

"

 $81^{\circ} 20'$

"

 $33^{\circ} 40'$

"

 $121^{\circ} 30'$

"

 $81^{\circ} 20'$

"

 $140^{\circ} 50'$

"

 $136^{\circ} 40'$

"

 $150^{\circ} 30'$

"

 156°

"

 $153^{\circ} 20'$

"

 $162^{\circ} 40'$

"

DITCH

 170°

"

 $173^{\circ} 50'$

"

 $171^{\circ} 10'$

"

 $165^{\circ} 30'$

"

 $179^{\circ} 10'$

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
234			6.9		76.6 .
190			6.8		76.7 .
200			6.5		77.0 .
143			6.4		77.1 .
110			7.3		76.2 .
163			6.4		77.1 .
66			5.9		77.6 .
212			2.8		80.7 .
105			4.0		79.5 .
275	$+1^{\circ} 45'$	+ 8.4	6.4	+2.0	85.5 .
183	$+1^{\circ} 45'$	+ 5.6	6.9	-1.3	82.2 .
303	$+1^{\circ} 45'$	+ 9.2	9.7	-0.5	83.0 .
250	$+1^{\circ} 45'$	+ 7.6	6.8	+0.8	84.3 .
350	$+1^{\circ} 45'$	+ 10.7	11.4	-0.7	82.8 .
323	$+1^{\circ} 45'$	+ 9.9	6.1	+3.8	87.3 .
230	$+1^{\circ} 45'$	+ 7.0	6.1	+0.9	84.4 .
297	$+1^{\circ} 45'$	+ 9.1	6.6	+2.5	86.0 .
375	$+1^{\circ} 45'$	+ 11.4	12.0	-0.8	82.7 .

OBJECT

983.46

AZI

STADIA

G.E

 183°

"

 $167^{\circ}20'$

"

 $154^{\circ}50'$

"

 185°

"

 188°

"

 $18^{\circ}10'$

"

 $192^{\circ}30'$

"

 4°

"

 $1^{\circ}40'$

11

 $207^{\circ}20'$

11

 $0^{\circ}50'$

11

 $354^{\circ}10'$

11

 305°

11

 327°

11

 $346^{\circ}20'$ 11.3

11

 $348^{\circ}20'$

11

 333°

11

 $338^{\circ}40'$

DIST.	VERT ANGLE	ROD EQUIV	ROD	DIFF.	ELEV
367	$+1^{\circ} 45'$	+ 11.2	8.3	+ 2.9	86.4 .
132			2.2		81.3 .
42			4.9		78.6 .
303	$+1^{\circ} 45'$	+ 9.2	7.0	+ 2.2	85.7 .
235	$+1^{\circ} 45'$	+ 7.2	7.2	0.0	83.5 .
63			6.4		77.1 .
165			0.00		83.5 .
155			7.7		75.8 .
223			6.7		76.8 .
87			3.2		80.3 .
275			9.7		73.8 .
275			10.3		73.2 .
60			6.3		77.2 .
90			4.9		78.6 .
284			13.7		69.8 .
116			7.1		76.4 .
313			11.6		71.9 .
173			7.9		75.6 .

OBJECT

983.46

AZI

STADIA

G. E

 $326^{\circ}10'$

"

 $341^{\circ}30'$

"

 $314^{\circ}50'$

"

 329°

"

 $290^{\circ}50'$

"

 $321^{\circ}20'$

"

 $260^{\circ}50'$

"

 $307^{\circ}40'$

"

 $233^{\circ}20'$

"

 282°

"

 213°

"

 201°

"

 $194^{\circ}10'$

"

 $192^{\circ}10'$

"

 $191^{\circ}30'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV 45
254			9.7		73.8.
232			11.0		72.5.
194			7.6		75.9.
190			7.2		76.3.
138			9.3		74.2.
157			5.4		78.1.
117			6.3		77.2.
122			7.3		76.2.
150			3.3		80.2.
99			7.9		75.6.
207			2.6		80.9.
291			1.8		81.7.
390	$+1^{\circ}45'$	$+ 11.9$	9.1	$+2.8$	86.3.
435	$+1^{\circ}45'$	$+ 13.3$	8.3	$+5.0$	88.5.
466	$+1^{\circ}06'$	$+ 8.9$	10.0	-1.1	82.4.

OBJECT

AZI

STADIA

H.I. 976.13

AT A.P.T.F

To A.P.T.D

 $192^{\circ} 08' 1.34$

VAZ

 $246^{\circ} 30'$

To A.P.T.H

 $270^{\circ} 54' 1/2$

B.M

G.E

 $147^{\circ} 15'$

"

 $151^{\circ} 45'$

"

 $142^{\circ} 10'$

"

Fc

 149°

"

 $142^{\circ} 40'$

"

Fc

 $144^{\circ} 30'$

"

 130°

"

Fc

 $134^{\circ} 20'$

"

 $121^{\circ} 25'$

"

Fc

 $127^{\circ} 40'$

46

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

H.1

5.15

970.98

712

+2.22

978.35¹⁹

WATER-TOWER

776 -1°

-13.50

8.0

-21.50

954.63

SPINE TOP COR FC. POST 4.85

971.28

420

4.9

71.2

407

4.8

71.3

440

13.1

63.0

376

5.1

71.0

385

12.8

63.3

332

10.1

66.0

340

11.8

64.3

272

10.4

65.7

295

7.1

69.0

245

7.1

69.0

OBJECT

976.13

AZI

STADIA

G. E

114°

" Fc

118° 10'

" "

108°

" XFc

106°

" "

84° 30'

" Fc

79° 20'

" "

66° 50'

" Fc

62° 45'

" "

64° 20'

" Fc

48° 10'

" "

56° 40'

" "

53° 50'

" Fc cor

35° 35'

" "

43° 40'

" "

37° 50'

" Fc

24° 50'

" Fc

14° 30'

" Fc

358°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 47
280			6.6		69.5
221			11.4		64.7
282			2.5		68.6
206			11.7		64.4
270			6.7		69.4
200			10.4		65.7
270			7.3		68.8
262			4.8		71.3
247			4.1		72.0
263			5.3		70.8
266			3.6		72.5
313			4.0		72.1
335			5.1		71.0
373			3.4		72.7
395			6.2		69.9
300			6.8		69.3
282			10.8		65.3
273			11.5		64.6

OBJECT

97613

AZI

STADIA

B. M

S. E COR 27' x 45' Ho. 6°-14'

S. W " " 4°-13'

G. E 28°-20'

" 8°-50'

" 15°

" 11°-10'

" 4°-20'

" 33°

" 17°-20'

" 43°-10'

" 30°-20'

" 65°-40'

" 107°-40'

" 102°-30'

" 130°-30'

" 128°

" 152°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
					966.82
SPIKE - LONE - OAK - TREE		9.31			
670	-0° 57' - 11.1	8.0	-19.1		57.0.
668	-0° 57' - 11.1	8.3	-19.4		56.7.
267		7.9			68.2.
231		11.2			64.9.
372		11.0			65.1.
187		7.2			68.9.
355		13.1			63.0.
226		3.9			72.2.
128		7.4			68.7.
185		7.5			68.6.
74		7.8			68.3.
137		10.5			65.6.
55		1.7			74.4.
128		8.0			68.1.
63		3.3			72.8.
152		11.1			65.0.
104		9.5			66.6.

OBJECT

976.13

AZI

STADIA

G. E

 136°

11

 $158^{\circ} 30'$

11

 $144^{\circ} 40'$

11

 $163^{\circ} 40'$

11

 $152^{\circ} 10'$

11

 $168^{\circ} 20'$

11

 $152^{\circ} 50'$

11

 171°

11

 $157^{\circ} 10'$

11

 $172^{\circ} 20'$

11

 162°

11

 $185^{\circ} 50'$

11

 $195^{\circ} 40'$

11

 $187^{\circ} 20'$

11

 $200^{\circ} 40'$

11

 $188^{\circ} 50'$

11

 205°

11

 $190^{\circ} 30'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁴⁹
172			9.9		66.2 .
132			11.3		64.8 .
203			5.8		70.3 .
180			7.6		68.5 .
200			4.8		71.3 .
255			5.1		71.0 .
251			7.2		68.9 .
334			8.2		67.9 .
303			4.9		71.2 .
385			8.8		67.3 .
382			7.4		68.7 .
390			13.1		63.0 .
400			14.4		61.7 .
330			12.2		63.9 .
320			13.2		62.9 .
270			8.4		67.7 .
252			7.9		68.2 .
232			8.8		67.3 .

OBJECT

976.13

AZI

STADIA

G, E

 $214^{\circ} 25'$

"

 $186^{\circ} 30'$

"

 $228^{\circ} 20'$

"

 $198^{\circ} 50'$

"

 $248^{\circ} 40'$

"

 $199^{\circ} 10'$

"

 270°

"

 218°

"

 $299^{\circ} 20'$

"

 $289^{\circ} 50'$

"

 310°

"

 $333^{\circ} 10'$

"

 $318^{\circ} 20'$

"

 $341^{\circ} 20'$

"

 $328^{\circ} 20'$

"

 $343^{\circ} 40'$

"

 $339^{\circ} 50'$

"

 $349^{\circ} 15'$

DIST.	ERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
205			12.6		63.5.
200			11.5		64.6.
156	$-2^{\circ}12'$	-6.0	9.2	-15.2	60.9.
171	$-2^{\circ}12'$	-6.6	7.2	-13.9	62.2.
132	$-2^{\circ}12'$	-5.1	10.8	-15.9	60.2.
106	$-2^{\circ}12'$	-4.1	10.8	-14.9	61.2.
128			14.1		62.0.
59			12.3		63.8.
150			8.5		67.6.
47			8.5		67.6.
167			9.6		66.5.
94			6.8		69.3.
192			10.0		66.1.
51			7.5		68.6.
235			7.6		68.9.
167			9.3		66.8.
257			6.8		69.3.
228			10.2		65.9.

OBJECT

976.13

AZI

STADIA

G.E. Fc

106°

" "

344°50'

" "

345°45'

" "

347°

" "

338°

" "

325°25'

" "

H.I. 976.05

AT A PT. F

TO A PTD

192°18½' 1.3

V AZ WATER TOWER

246°30'

G.E.

206°40'

" "

215°45'

" "

210°

" "

221°15'

" "

217°25'

" "

228°50'

DIST. VERT. ANGLE ROD EQUIV. ROD DIFF. ELEV. 51

300 8.3 67.8.

284 7.5 68.6.

300 9.5 66.6.

341 13.1 63.0.

363 15.8 60.3.

334 11.0 65.1.

H.I. 5.07

970.98

712

+1.76

977.81

450

15.1

61.0.

500 $-1^{\circ}15'$ -10.4 4.7 -15.1 61.0.

388 $-1^{\circ}11'$ -8.0 8.5 -16.5 59.6.

442 $-1^{\circ}11'$ -9.1 6.8 -15.9 60.2.

305 $-1^{\circ}11'$ -6.3 7.8 -16.1 60.0.

390 $-1^{\circ}11'$ -8.1 10.8 -18.9 57.2.

OBJECT

976.05

AZI

STADIA

G.E

 $231^{\circ}50'$

"

 $234^{\circ}50'$

"

 $231^{\circ}20'$

"

 $249^{\circ}40'$

"

 $267^{\circ}45'$

"

 $255^{\circ}50'$

"

 296°

"

 $272^{\circ}50'$

"

 $309^{\circ}20'$

"

 $283^{\circ}50'$

"

 $300^{\circ}45'$

"

 $318^{\circ}30'$

"

Fc

 $329^{\circ}10'$

"

"

 $313^{\circ}30'$

"

"

 320°

"

 $326^{\circ}20'$

"

 $319^{\circ}10'$

"

Fc

 309°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV ⁵²
✓32	-1° 11'	-4.8	9.9	-14.7	61.4.
357	-1° 11'	-7.4	9.4	-16.8	59.3.
190	-1° 11'	-3.9	9.5	-13.4	62.7.
287	-1° 11'	-5.9	11.4	-17.3	58.8.
176	-1° 11'	-3.6	10.8	-14.4	61.7.
297	-2° 24'	-12.4	9.0	-21.4	54.7.
192			10.6		65.5.
278	-1° 11'	-5.8	8.9	-14.7	61.4.
219			11.1		65.0.
195	-1° 11'	-4.0	11.0	-15.0	61.1.
334	-1° 11'	-6.9	8.9	-15.8	60.3.
250			8.2		67.9.
320			9.9		66.2.
398	-1° 11'	-8.2	10.2	-18.4	57.7.
357	-1° 11'	-7.4	7.3	-14.7	61.4.
420	-1° 11'	-8.7	9.9	-18.6	57.5.
462	-1° 11'	-9.6	11.6	-21.2	54.9.
438	-1° 11'	-9.1	10.7	-19.8	56.3.

OBJECT

976.05

AZI

STADIA

G.E

303° 55'

"

296° 50'

"

23° N + 50.
S.E. COR-HO

328°

"

S.W. " "

325° 50'

"

301° 20'

"

315° 30'

"

287° 50'

"

310° 15'

"

284° 50'

"

273°

"

272° 25'

"

263° 30'

"

261° 40'

"

251° 50'

"

252° 20'

"

245° 30'

"

244°

"

236° 30'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	53 ELEV.
497	-1° 11'	-10.3	10.2	-20.5	55.6.
468	-1° 11'	-9.7	10.5	-20.2	55.9.
688	-1° 11'	-14.2	7.4	-21.6	54.5.
700	-1° 11'	-14.5	8.0	-22.5	53.6.
400	-1° 11'	-8.3	7.9	-18.2	57.9.
496	-1° 11'	-10.3	12.5	-22.8	53.3.
368	-1° 11'	-7.6	10.9	-18.5	57.6.
542	-1° 56'	-18.3	8.3	-26.6	49.5.
432	-1° 11'	-8.9	11.8	-20.7	55.4.
424	-1° 11'	-8.8	12.9	-21.7	54.4.
352	-1° 11'	-7.3	11.7	-19.0	57.1.
427	-1° 56'	-14.4	10.4	-24.8	51.3.
333	-1° 56'	-11.2	11.8	-23.0	53.1.
450	-1° 56'	-15.2	7.4	-24.6	51.5.
347	-1° 56'	-11.7	11.2	-22.9	53.2.
515	-1° 56'	-17.4	6.0	-23.4	52.7.
427	-1° 56'	-14.4	8.9	-23.3	52.8.
590	-1° 56'	-19.9	2.1	-22.0	54.1.

OBJECT

976.05

AZI

STADIA

G.E

235°

"

231° 30'

"

227° 30'

"

224° 50'

"

237°

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV
479	$-1^{\circ}11'$	-9.9	9.8	-19.7	56.4.
630	$-1^{\circ}11'$	-13.0	7.1	-20.1	56.0.
493	$-1^{\circ}11'$	-10.2	3.0	-13.2	62.9.
554			12.4		63.7.
712	$-1^{\circ}11'$	-14.7	1.4	-16.1	60.0.

OBJECT

AZI

STADIA

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV

55

Poor Farm
Stadia

OBJECT

959.78

AZI

STADIA

 Δ at Hto ΔF $90^{\circ} 54 \frac{1}{2}'$

776

 $\checkmark$ AZ TOWER $235^{\circ} 41 \frac{1}{2}'$

B. M

B. M

M. HOLE

 Δ PT. I $257^{\circ} 11'$

G. E

 157°

"

 $148^{\circ} 30'$

"

 $140^{\circ} 10'$

"

 $128^{\circ} 10'$

"

 $107^{\circ} 50'$

"

 89°

"

 59°

"

 45°

"

F. G

 31°

"

 $25^{\circ} 40'$

"

 $17^{\circ} 50'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
				4-18-55	55
	4.1		5.15		954.63
775	+1° 11' -1° 11'	+16.0	5.0	+11.0	970.78
	TWIN-OAK		12.27		947.51
					948.01
	1ST M.H. No. Fc		11.90		947.88
682.			10.85		948.93
410			1.1		58.7.
369			4.1		55.7.
296			6.3		53.5.
231			8.5		51.3.
185			5.5		54.3.
170			5.1		54.7.
194			10.6		49.2.
232			10.5		49.3.
307			11.4		48.4.
370	-1° 25'	9.1	7.1	-16.2	43.6.
365	-1° 25'	9.0	7.3	-16.3	43.5.

OBJECT

959.78

AZI

STADIA

G.E

 $11^{\circ}25'$

1

 $8^{\circ}35'$

"

 $8^{\circ}10'$

"

FC LINE

 $7^{\circ}50'$

"

" "

 $359^{\circ}15'$

"

 $359^{\circ}10'$

"

 356°

"

 $353^{\circ}45'$

"

 353°

"

 $346^{\circ}10'$

"

FC

 $333^{\circ}20'$

"

 $337^{\circ}10'$

"

 $349^{\circ}20'$

"

 $351^{\circ}45'$

"

 $355^{\circ}15'$

"

FC

 349°

"

"

 $343^{\circ}30'$ $341^{\circ}20'$

ODIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	56 ELEV.
	-				
350	$-1^{\circ}25'$	8.6	9.5	-18.1	41.7.
432	$-1^{\circ}25'$	10.7	8.3	-19.0	40.8.
530	$-1^{\circ}25'$	13.1	10.5	-23.6	36.2.
655	$-1^{\circ}25'$	16.2	7.4	-23.6	36.2.
588	$-1^{\circ}25'$	14.5	10.7	-25.2	34.6.
490	$-1^{\circ}25'$	12.1	10.7	-22.8	37.0.
433	$-1^{\circ}25'$	10.7	11.8	-22.5	37.3.
335	$-1^{\circ}25'$	8.3	11.8	-20.1	39.7.
264	$-1^{\circ}25'$	6.5	10.0	-16.5	43.3.
320	$-1^{\circ}25'$	7.9	11.2	-19.1	40.7.
300	$-1^{\circ}53'$	9.9	11.1	-21.0	38.8.
353	$-3^{\circ}06'$	19.1	5.5	-24.6	35.2.
405	$-3^{\circ}06'$	21.9	4.2	-26.1	33.7.
495	$-3^{\circ}06'$	26.7	0.3	-27.0	32.8.
578	$-1^{\circ}25'$	14.1	12.9	-27.0	32.8.
545	$-2^{\circ}17'$	21.7	6.0	-27.7	32.1.
530	$-2^{\circ}17'$	21.1	6.0	-27.1	32.7.
462	$-2^{\circ}17'$	18.4	5.5	-23.9	35.9.

G.E				344°
"				337°
"				334°-40'
"	Fc			321°-40'
"				328°-15'
"				332°-10'
"	Fc			333°-15'
"				325°
"				323°
"	Fc			314°-25'
"				311°-45'
"				319°
"	Fc			322°
"				323°
"	So	RAIL - TRACK		293°-30'
"	"	"	"	304°-50'
"	"	"	"	319°-50'
"	"	M. HOLE		316°-25'

DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁵⁷
433	-2° 17'	17.2	8.9	-26.1	33.7
430	-1° 25'	10.6	11.5	-22.1	37.7
375	-1° 53'	12.3	11.9	-24.2	35.6
340	-1° 53'	11.2	10.2	-21.4	38.4
410	-1° 53'	13.5	6.6	-20.1	39.7
478	-1° 53'	15.7	5.6	-21.3	38.5
514	-1° 53'	16.9	5.1	-22.0	37.8
512	-1° 53'	16.8	3.3	-20.1	39.7
450	-1° 53'	14.8	2.9	-17.7	42.1
380	-1° 53'	12.5	6.6	-19.1	40.7
400	-1° 53'	13.2	7.5	-20.7	39.1
457	-1° 53'	15.0	6.2	-21.2	38.6
513	-1° 53'	16.9	5.6	-22.5	37.3
563	-1° 53'	18.5	6.6	-25.1	34.7
690	-1° 53'	22.7	5.90	-28.6	31.2
610	-1° 53'	20.1	7.20	-27.3	32.5
568	-1° 53'	18.7	6.90	-25.6	34.2
545	-1° 53'	17.9	12.0	-29.9	29.9

OBJECT

959.78

AZ.

STADIA

G.E	M. HOLE	317°45'
"	So. RAIL - TRACK	328°40'
"	" "	343°40'
"	M. HOLE	347°55'
"	So. RAIL TRACK	353°10'
"	" "	3°15'
"	M. HOLE	3°35'
"	" "	4°
"	So. RAIL - TRACK	8°36'
"	" "	12°05'
"	Fc CUR	21°
"		29°
"		39°40'
"		86°
"		121°20'
"		111°20'
"		133°40'
"		150°40'

12857	VERT. ANGLE	ROD EQUIV.	RODD	DIFF.	ELEV. ⁵⁸
550	-1° 53'	18.1	11.6	-29.7	30.1.
559	-1° 53'	18.4	6.3	-24.7	35.1.
575	-1° 53'	18.9	4.3	-23.2	36.6.
555	-1° 53'	18.3	8.3	-26.6	33.7.
610.	-1° 53'	20.1	2.3	-22.4	37.4.
666	-1° 25'	16.5	4.1	-20.6	39.2.
634	-1° 45'	19.3	4.0	-23.3	36.5.
650	-1°	11.3	12.0	-23.3	36.5.
720	-1° 22'	17.1	3.0	-20.1	39.7 ^{off sheet}
760	-1° 14'	16.3	3.0	-19.3	40.5
282			13.1		46.7.
180			12.0		47.8.
125			12.0		47.8.
71			4.5		55.3.
73			5.8		54.0.
97			5.0		54.8.
110			8.8		51.0.
110			9.9		49.9.

OBJECT

959.78

AZ.
AZ

STADIA

GE

157°20'

11

145°10'

11

169°40'

11

157°20'

11

168°

11

172°40'

11

170°

11

172°20'

11

186°20'

FC

184°40'

11

187°30'

11

191°20'

11

BEGINNING OF DITCH

191°15'

11

E DITCH

208°15'

11

213°20'

11

237°60'

11

251°20'

11

256°

11

260°45'

DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	59 ELEV.
118			8.5		51.3 .
142			7.6		52.2 .
210			9.2		50.6 .
315			4.7		55.1 .
310			6.5		53.3 .
342			5.9		53.9 .
414			0.4		59.4 .
434	+ 0°-52'	+ 6.6	3.0	+ 3.6	63.4 .
398			1.6		58.2 .
470			2.2		57.6 .
300			5.7		54.1 .
193			10.0		49.8 .
143			11.7		48.1 .
115	-2°-	- 4.0	8.8	-12.8	47.0 .
92	-2°-	- 3.2	10.1	-13.3	46.5 .
98	-2°-	- 3.4	10.4	-13.8	46.0 .
143	-2°-	- 5.0	10.6	-15.6	44.2 .
192	-2°-	- 6.7	10.9	-17.6	42.2 .
234	-2°-	- 8.2	11.3	-19.5	40.3 .

68

OBJECT

959.78

AZ
AS

STADIA

± DITCH

268°-

"

269°50'

"

270°10'

11 & "

272°10'

11

208°

11

200°

11

277°40'

11

322°20'

11

341°-

11

1°-40'

11

342°60'

11

323°20'

11

315°10'

11

294°40'

11

273°

11

248°

11

250°10'

11

215°10'

11

209°50'

DIST	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	⁶⁰ ELEV.
250	-2°	- 8.7	11.1	-19.8	40.0.
285	-3°	- 14.9	7.5	-22.4	37.4.
310	-3°	- 16.2	7.5	-23.7	36.1.
322	-3°	- 16.8	6.5	-23.3	36.5.
92	-3°	- 4.8	6.5	-11.3	48.5.
58	—		7.5		52.3.
38	—		5.8		54.0.
68	—		9.4		50.4.
128	-2°	- 4.5	11.4	-15.9	43.9.
178	-2°	- 6.2	7.9	-14.1	45.7.
230	-2°	- 8.0	10.0	-18.0	41.8.
260	-2°	- 9.1	11.1	-20.2	39.6.
213	-2°	- 7.4	11.2	-18.6	41.2.
100	—		12.1		47.7.
120	—		9.6		50.2.
115	-1°	- 2.0	11.6	-13.6	46.2.
164	-1°	- 2.9	9.9	-12.8	47.0.
117	-1°	- 2.0	9.6	-11.6	48.2.
143	-1°	- 2.5	8.3	-10.8	49.0.

OBJECT

959.78

AZ.

STADIA

6E

AS

11

219°20'

11

208°30'

11

201°10'

11

199°50'

11

201°30'

FC

195°30'

FC

204°40'

11

207°20'

11

210°30'

11

213°60'

11

225°30'

11

221°

11

231°40'

11

236°40'

11

246°10'

11

250°30'

11

260°10'

11

252°20'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	C/ ELEV.
222	-1°	-3.9	12.3	-16.2	43.6
272	—		9.1		50.7
385	—		7.1		52.7
408	—		8.1		51.7
461	—		7.2		52.6
490	—		6.2		53.6
520	—		8.3		51.5
482	—		8.7		51.1
440	—		11.7		48.1
384	—		8.6		51.2
358	—		9.7		50.1
300	—		11.5		48.3
252	-2°	-8.8	4.5	-13.3	46.5
314	-2°	-11.0	2.7	-13.7	46.1
312	-2°	-10.9	3.3	-14.2	45.6
300	-2°	-10.5	5.7	-16.2	43.6
286	-2°	-10.0	2.7	-12.7	47.1
243	-2°	-8.5	4.8	-13.3	46.5

6E

959.78

AZ
A3

STADIA

"

240°20'

"

240°20'

"

246°20'

"

255°30'

"

261°10'

"

268°30'

"

268°30'

"

256°10'

"

261°40'

"

268°60'

"

271°40'

"

272°

"

277°

"

285°

"

272°30'

"

300°20'

"

300°20'

"

260°50'

4-18-55 62					
DDST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
188	-2°	- 6.6	5.4	-12.0	47.8.
145	-2°	- 5.1	6.5	-11.6	48.2
155	-2°	- 5.4	8.9	-14.3	45.5.
210	-2°	- 7.3	8.3	-15.6	44.2.
240	-2°	- 8.4	7.9	-16.3	43.5.
278	-2°	- 9.7	9.5	-19.2	40.6.
325	-2°	- 11.3	8.9	-20.2	39.6.
182	-3°	- 9.5	5.9	-15.4	44.4.
200	-3°	- 10.5	5.0	-15.5	44.3.
241	-3°	- 12.6	5.1	-17.7	42.1.
282	-3°	- 14.7	4.2	-18.9	40.9.
267	-3°	- 14.0	5.0	-19.0	40.8.
312	-3°	- 16.3	3.5	-19.8	40.0.
217	—		12.6		47.2.
160	—		10.1		49.7.
265	-2°	- 7.2	8.9	-16.1	43.7.
242	-2°	- 8.4	10.0	-18.4	41.4.
286	-2°	- 10.0	7.3	-17.3	42.5.

OBJECT

959.78

AZ
AS

STADIA

GE

"

 $318^{\circ}20'$

"

 312°

"

 $310^{\circ}40'$

"

 $304^{\circ}20'$

"

 298°

"

 $307^{\circ}30'$

"

 $283^{\circ}30'$

"

 $285^{\circ}20'$

"

 $255^{\circ}20'$

"

 $245^{\circ}30'$

"

 $233^{\circ}50'$

"

 $222^{\circ}30'$

"

 $216^{\circ}30'$

"

FC

 $212^{\circ}40'$

"

 $215^{\circ}30'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
300	-2°	- 10.5	9.5	-20.0	39.8.
330	-2°	- 11.5	7.5	-19.0	40.8.
400	-2°	- 14.0	9.6	-23.6	36.2.
341	-2°	- 11.9	10.2	-22.1	37.7.
400	-2°	- 14.0	13.5	-27.5	32.3.
424	-3°	- 22.2	6.5	-28.7	31.1.
350	-3°	-18.3	7.1	-25.4	34.4.
360	-3°	-18.8	5.3	-24.1	35.7.
356	-2°	- 12.4	9.3	-21.7	38.1.
378	-2°	- 13.2	8.3	-21.5	38.3.
412	-2°	- 14.4	4.5	-18.9	40.9.
460	-1°	- 8.0	12.6	-20.6	39.2.
534	-1°	- 9.3	11.1	-20.4	39.4.
581	—		12.2		47.6.
541	—		12.3		47.5.

OBJECT

953.96

AZ.

STADIA

ATAI

To A H

77° 11' 2.60

V AZ

TOWER.

222° 35'

To - Δ J

256° 11 1/2'

B. M.

^{NOR}
 Top M.H. FC. LINE

G.E. Fe

138° 45'

"

131° 15'

"

125° 10'

"

Fe

152° 50'

"

150°

"

142°

"

129° 40'

"

114° 10'

"

107°

"

115° 20'

"

94° 40'

"

104° 50'

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁶⁴
		H.1	5.03		948.93
682			+ 0.81		954.77 ⁶³
					946.47
594			7.47		946.49
			6.05		947.91
430			1.6		52.4.
390			4.3		49.7.
342			9.0		45.0.
370			4.8		49.2.
341			6.8		47.2.
280			7.6		46.4.
230			8.6		45.4.
310			8.3		45.7.
186			9.7		44.3.
280			7.3		46.7.
230			7.6		46.4.
290			9.3		44.7.

OBJECT

953.96

AZ.

STADIA

G. E

 78°

"

 93°

"

 69°

"

 75°

"

 $55^{\circ} 20'$

"

 $63^{\circ} 35'$

"

 $53^{\circ} 10'$

"

 $55^{\circ} 45'$

"

 $48^{\circ} 30'$

"

 $36^{\circ} 10'$

"

 $44^{\circ} 40'$

"

 $29^{\circ} 40'$

"

 $39^{\circ} 25'$

"

 32°

"

 $37^{\circ} 10'$

"

 22°

"

 $34^{\circ} 20'$

"

 17°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	65 ELEV.
173			12.4		41.6
272			8.3		45.7
213			11.4		43.6
248			10.5		43.5
191	$-1^{\circ} 01'$	3.4	12.5	-15.9	38.1
290			12.0		42.0
272			11.7		42.3
283			10.6		43.4
305			12.3		41.7
252	$-2^{\circ} 15'$	9.9	11.8	-21.7	32.3
357	$-2^{\circ} 15'$	14.0	5.9	-19.9	34.1
284	$-2^{\circ} 15'$	11.2	12.8	-24.0	30.0
338	$-2^{\circ} 15'$	13.3	5.6	-18.9	35.1
350	$-2^{\circ} 15'$	13.8	10.1	-23.9	30.1
374	$-2^{\circ} 15'$	14.7	4.5	-19.2	34.8
365	$-2^{\circ} 15'$	14.3	10.0	-24.3	29.7
415	$-2^{\circ} 15'$	16.3	6.6	-22.9	31.1
430	$-2^{\circ} 15'$	16.9	7.5	-24.4	29.6

OBJECT

953.96

AZ.

STADIA

G. E

 29°

"

F.L. 36" IRON PIPE

 $15^{\circ} 34'$

"

 $27^{\circ} 40'$

"

 $10^{\circ} 45'$

"

F.C.

 $26^{\circ} 10'$

INTERSECTION

"

R.R. R.W. X F.C.

 $16^{\circ} 10'$

"

F.C.

 $6^{\circ} 50'$

"

"

 $21^{\circ} 50'$

"

"

 $358^{\circ} 10'$

"

 15°

"

 $0^{\circ} 40'$

"

 $0^{\circ} 40'$

"

 23°

"

 2°

"

 $0^{\circ} 50'$

"

 11°

"

 $44^{\circ} 15'$

"

 $32^{\circ} 20'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 66
484	-2°15'	19.0	5.9	-24.9	29.1
476	-2°15'	18.7	11.90	-30.6	23.4
513	-2°15'	20.2	4.1	-24.3	29.7
422	-2°15'	16.6	11.3	-27.9	26.1
555	-2°15'	21.8	4.0	-25.8	28.2
444	-2°15'	17.4	8.2	-25.6	28.4
382	-2°15'	15.0	10.8	-25.8	28.2
500	-2°15'	19.7	5.7	-25.4	28.6
350	-2°15'	13.8	13.9	-27.7	26.3
312	-2°15'	12.3	13.4	-25.7	28.3
310	-4°02'	21.8	6.0	-27.8	26.2
252	-4°02'	17.7	9.0	-26.7	27.3
265	-2°15'	10.4	13.3	-23.7	30.3
210	-3°16'	11.9	11.0	-22.9	31.1
207	-2°15'	8.1	10.3	-18.4	35.6
163	-2°15'	6.4	8.0	-14.4	39.6
156	-2°15'	6.1	6.3	-12.4	41.6
68			7.5		46.5

OBJECT

953.96

AZ.

STADIA

G.E

 $72^{\circ}30'$

"

 $128^{\circ}40'$

"

 $104^{\circ}20'$

"

 $160^{\circ}25'$

"

 $135^{\circ}30'$

"

 $166^{\circ}35'$

"

 152°

"

Fc

 171°

"

"

 $160^{\circ}20'$

"

"

 $184^{\circ}25'$

"

"

 $194^{\circ}30'$

"

 185°

"

 198°

"

 $186^{\circ}40'$

"

 $203^{\circ}10'$

"

 $188^{\circ}30'$

"

 $210^{\circ}20'$

"

 202°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁶⁷
113			9.0		45.0 .
49			5.5		48.5 .
113			7.1		46.9 .
119			7.0		47.0 .
159			7.8		46.2 .
226			5.2		48.8 .
240			6.9		47.1 .
331			1.8		52.2 .
347			4.5		49.5 .
330			2.5		51.5 .
342			1.0		53.0 .
267			3.1		50.9 .
290			1.8		52.2 .
203			3.5		50.5 .
244			0.8		53.2 .
145			5.5		48.5 .
186			4.6		49.4 .
146			4.6		49.4 .

OBJECT

953.96

AZ.

STADIA

G. E

 $224^{\circ}20'$

"

 $222^{\circ}10'$

"

 $206^{\circ}20'$

"

 $251^{\circ}50'$

"

 $283^{\circ}40'$

"

 $287^{\circ}40'$

"

 $345^{\circ}30'$

"

 $318^{\circ}20'$

"

 $349^{\circ}50'$

"

 $327^{\circ}45'$

"

 $331^{\circ}50'$

"

 $350^{\circ}50'$

"

 $335^{\circ}30'$

"

 $350^{\circ}40'$

"

 $335^{\circ}40'$

"

 351°

" Fe

 $331^{\circ}50'$

" "

 $326^{\circ}10'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁶⁸
132			6.8		47.2 .
77			4.5		49.5 .
35			4.2		49.8 .
95			8.6		45.4 .
20			5.1		48.9 .
91			12.3		41.7 .
82			11.1		42.9 .
135	-2°15'	- 5.3	9.9	-15.2	38.8 .
141	-2°15'	- 5.5	9.9	-15.4	38.6 .
175	-2°15'	- 6.9	11.4	-18.3	35.7 .
214	-2°15'	- 8.4	13.6	-22.0	32.0 .
215	-3°18'	- 12.4	10.8	-23.2	30.8 .
270	-3°18'	- 15.5	9.2	-24.7	29.3 .
250	-3°18'	- 14.4	12.5	-26.9	27.1 .
297	-3°18'	- 17.1	10.9	-28.0	26.0 .
300	-3°18'	- 17.3	11.2	-28.5	25.5 .
323	-3°18'	- 18.6	9.9	-28.5	25.5 .
326	-3°18'	- 18.7	9.2	-27.9	26.1 .

OBJECT

953.96

AZ.

STADIA

G. E	Fe	317°-35'
"	So. RAIL	347°-15'
"	Fe	310°
"	So. RAIL	331°
"	Fe	303°-15'
"	"	299°-30'
"	So. RAIL	312°-30'
"	" "	301°-30'
"	Fe - COR	296°-40'
"		323°
"		308°-30'
"		322°
"		305°-20'
"		316°
"		294°-20'
"		304°
"		272°-30'
"		271°

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 69
345	$-3^{\circ}18'$	-19.8	6.6	-26.4	27.6
377	$-3^{\circ}18'$	-21.7	1.75	-23.5	30.5
376	$-2^{\circ}15'$	-14.8	9.9	-24.7	29.3
372	$-2^{\circ}15'$	-14.6	9.7	-24.3	29.7
420	$-2^{\circ}15'$	-16.5	6.4	-22.9	31.1
455	$-2^{\circ}15'$	-17.9	5.9	-23.8	30.2
429	$-2^{\circ}15'$	-16.9	8.6	-25.5	28.5
515	$-2^{\circ}15'$	-20.2	5.95	-26.2	27.8
492	$-1^{\circ}37''$	-13.9	10.0	-23.9	30.1
300	$-2^{\circ}15'$	-11.8	13.4	-25.2	28.8
338	$-2^{\circ}15'$	-13.0	9.7	-22.7	31.3
263	$-2^{\circ}15'$	-10.3	11.3	-21.6	32.4
288	$-2^{\circ}15'$	-11.3	6.3	-17.6	36.4
200	$-2^{\circ}15'$	-7.9	9.7	-17.6	36.4
206			9.7		44.3
156			14.3		39.7
205			8.1		45.9
159			11.4		42.6

OBJECT

953.96

AZ.

STADIA

G.E

 $255^{\circ}20'$

"

 $247^{\circ}50'$

"

 238°

"

 $225^{\circ}10'$

"

DITCH

 $238^{\circ}50'$

"

 216°

"

DITCH

 231°

"

 $207^{\circ}50'$

"

 $213^{\circ}30'$

"

DITCH

 $225^{\circ}20'$

"

Fc

 $203^{\circ}10'$

"

Fc + DITCH

 $217^{\circ}20'$

"

Fc

 $210^{\circ}20'$

"

"

 $222^{\circ}35'$

"

"

 $226^{\circ}20'$

"

 $225^{\circ}30'$

"

 $230^{\circ}50'$

"

 $229^{\circ}35'$

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁷⁰
225			10.3		43.7.
173			10.3		43.7.
215			6.5		47.5.
230			5.7		48.3.
260			9.2		44.8.
246			0.8		53.2.
206			7.3		46.7.
286	$+0^{\circ}35'$	+2.9	2.7	+0.2	54.2.
297	$+0^{\circ}35'$	+3.0	2.7	+0.3	54.3.
346			5.7		48.3.
360	$+0^{\circ}35'$	+3.7	2.0	+1.7	55.7.
414			3.8		50.2.
380	$+0^{\circ}35'$	+3.9	5.3	-1.4	52.6.
450			1.3		52.7.
482			0.4		53.6.
430			1.1		52.9.
446			0.5		53.5.
338			4.5		49.5.

OBJECT

953.96

AZ.

STADIA

G.E

 $235^{\circ}-20'$

11

 $236^{\circ}-35'$

11

 $243^{\circ}-30'$

11

 $239^{\circ}-40'$

11

 247°

11

 $249^{\circ}-40'$

11

 $252^{\circ}-40'$

11

 258°

11

DITCH

 $256^{\circ}-20'$

11

 $271^{\circ}-50'$

11

 258°

11

 $285^{\circ}-20'$

11

 $265^{\circ}-50'$

11

 300°

11

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁷¹
410			2.8		51.2.
340			4.0		50.0.
375			8.2		45.8.
290			6.2		47.8.
396			9.6		44.4.
272			11.2		42.8.
352			11.9		42.1.
257			10.9		43.1.
355			13.9		40.1.
245			6.6		47.4.
340			11.8		42.2.
250			8.9		45.1.
330			9.5		44.5.
285	-2°15'	-11.2	4.7	-15.9	38.1.

OBJECT

954.0

AZ.

STADIA

MAY 2
A.M.
L.C.
M.Mc

ATAI

To A H

 $77^{\circ}11'$ 263

✓ AZ

TOWER

 $222^{\circ}35'$

To - A F

B.M.

TOP M. H. No. Fc. LINE

6E

 $262^{\circ}30'$

"

 274°

"

 $285^{\circ}40'$

"

 270°

"

 $297^{\circ}30'$

"

 $286^{\circ}30'$

"

 $278^{\circ}20'$

"

 $265^{\circ}40'$

"

 260°

"

 $248^{\circ}-$

"

 $240^{\circ}20'$

17.7

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. ⁷²
	H.1		5.07		748.93
			+0.76	$\frac{341}{265}$	954.76
			+ 0.76	<u>76</u>	
			6.06		947.94
317	—		10.5		43.5
368	—		11.9		42.1
360	—		13.3		40.7
482	—		17.7		36.3
456	-1°30'	- 11.9	12.0	-23.9	30.1
428	-1°30'	- 11.2	8.3	-19.5	34.5
420	-1°	- 7.3	9.9	-17.2	36.8
412	-1°	- 7.2	7.5	-14.7	39.3
420	-1°	- 7.3	6.7	-14.0	40.0
458	—		6.6		47.4
482	—		4.7		49.3

65	OBJECT	954.0	AZ.	STADIA
----	--------	-------	-----	--------

"			236°40'	
---	--	--	---------	--

FC			232°30'	
----	--	--	---------	--

⊕ ROAD	12' TOP		234°20'	
-----------	---------	--	---------	--

⊕ ROAD	"		241°40'	
-----------	---	--	---------	--

⊕ ROAD	"		250°20'	
-----------	---	--	---------	--

"	"		261°	
---	---	--	------	--

Relocated Per Verbal LIC & F.K.	12" CM CULVERT WEST END		258°50'	
---------------------------------------	-------------------------------	--	---------	--

12" CM CULVERT EAST END			264°50'	
--	--	--	--------------------	--

⊕ ROAD	"		270°	
-----------	---	--	------	--

"	"		280°20'	
---	---	--	---------	--

"	"		279°20'	
---	---	--	---------	--

End of	"	"	295°30'	
--------	---	---	---------	--

OBJECT

AZ.

STADIA

DIST. *2.14 miles* E. ROD EQUIV. ROD DIFF. ⁷⁴ELEV.

OBJECT

AZ.

STADIA

DIST.

VERT.
ANGLE

LT

ROD
EQUIV.

2

ROD

DIFF

RT

ELEV.

OBJECT

951.69

AZ.

STADIA

RT Δ JTo Δ I $76^{\circ} 11\frac{1}{2}'$ 2.6

✓ AZ

 $194^{\circ} 16\frac{1}{2}'$

B.M SPIKE END RAIL Fc post

to Δ K433'
 $313^{\circ} 49'$ 333'to Δ L $143^{\circ} 24'$ 563'

G.E Fc cor

 $152^{\circ} 30'$

"

Fc

 141°

"

"

 $118^{\circ} 40'$

"

" cor

 $69^{\circ} 10'$

"

"

 $56^{\circ} 25'$

" N.E - 12" C.M

 $49^{\circ} 37'$

"

 $47^{\circ} 20'$

" Fc

 $34^{\circ} 30'$

" " ANGLE

 $27^{\circ} 10'$

" " "

 $27^{\circ} 10'$

" "

 $23^{\circ} 10'$

" " cor

 $20^{\circ} 15'$

FX AM MM	VERT. ANGLE	ROD EQUV.	May 10, 1955 ROD	DIFF.	76 ELEV.
5/10/55					
	H.1		5.2		946.49
					948.93
595			3.65		948.04
Water tower					
			1.07		950.62
			16.71		934.98
	+0°47'	+7.7		+2.7	954.39
	-0°47'	-7.7	5.0	-12.7	938.99
216	+1°12'	+4.5	3.0	+1.5	53.2
163			0.7		51.0
114			3.6		48.1
118			12.5		39.2
135			13.9		37.8
153	-1°08'	-3.0	12.0	-15.0	36.7
146	-1°08'	-2.9	14.1	-17.0	34.7
210	-2°40'	-9.8	5.7	-15.5	36.2
270	-2°40'	-12.6	5.9	-18.5	33.2
278	-2°40'	-12.9	5.9	-18.8	32.9
335	-2°31'	-14.7	5.3	-20.0	31.7
384	-2°40'	-17.9	4.5	-22.4	29.3

OBJECT

951.69

AZ.

STADIA

 π at ΔJ

BE Fe

 $10^{\circ}10'$

" "

 $11^{\circ}10'$

"

 $12^{\circ}30'$ 298

"

 $19^{\circ}20'$ 214

"

 $9^{\circ}-$ 192'

"

 $10^{\circ}40'$ 144

"

 $32^{\circ}40'$ 157

"

 $33^{\circ}35'$ 123

BE Fe

 $53^{\circ}40'$ 69'

"

 $112^{\circ}10'$ 57

"

 $158^{\circ}-$ 133

"

Fe

 $166^{\circ}25'$ 200

"

"

 $180^{\circ}30'$ 196

"

 $181^{\circ}10'$ 139

"

 $180^{\circ}10'$ 71

"

Fe

 $356^{\circ}20'$ 35

"

 $358^{\circ}50'$ 73

"

 $20^{\circ}-$ 104

May 10 1955

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

414	-2°40'	-19.3	5.2	-24.5	27.2
-----	--------	-------	-----	-------	------

366	-2°40'	-17.0	4.8	-21.8	29.9
-----	--------	-------	-----	-------	------

"		-13.9	10.7	-24.6	27.1
---	--	-------	------	-------	------

"		-10.0	10.0	-20.0	31.7
---	--	-------	------	-------	------

"		-8.9	15.3	-24.2	27.5
---	--	------	------	-------	------

	-6°09'	-15.3	8.0	-23.3	28.4
--	--------	-------	-----	-------	------

	-2°40'	-7.3	10.9	-18.2	33.5
--	--------	------	------	-------	------

	-6°—	-12.8	9.0	-21.8	29.9
--	------	-------	-----	-------	------

			11.3		40.4
--	--	--	------	--	------

			26		49.1
--	--	--	----	--	------

	+3°—	+7.0	6.9	+0.1	51.8
--	------	------	-----	------	------

"		+10.5	7.3	+3.2	54.9
---	--	-------	-----	------	------

"		+10.3	5.2	+5.1	56.8
---	--	-------	-----	------	------

"		+7.3	4.8	+2.5	54.2
---	--	------	-----	------	------

"		+3.7	4.0	-0.3	51.4
---	--	------	-----	------	------

			10.7		41.0
--	--	--	------	--	------

1	6°37'	-8.4	10.0	-18.4	33.3
---	-------	------	------	-------	------

2	"	-11.9	7.2	-19.1	32.6
---	---	-------	-----	-------	------

OBJECT

951.69

AZ.

STADIA

at Δ J

GE

355°15' 123

"

358°30' 182

"

0°30' 224

"

1°35' 262

"

1°50' 300

"

2°30' 320

AI π

GE Fe

0°50' 345

Rail

1°20' 426

"

351°30' 413

GE Fe

349°10' 365

"

348°40' 362

"

346°20' 312

"

340°30' 245

"

327°— 173

"

314°30' 122

" End Fe

291°— 78

Ctr Cesspool

281°20' 98

GE

270°— 74

May 10, 1955

78

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	-6°	-12.8	11.0	-23.8	27.9
	"	-18.9	5.6	-24.5	27.2
	-3°41'	-14.4	12.0	-26.4	25.3
	-4°35'	-20.9	7.0	-27.9	23.8
	"	-23.9	3.0	-26.9	24.8
	-2°40'	-14.9	10.7	-25.6	26.1
	"	-16.0	6.5	-22.5	29.2
	"	-19.8	6.2	-26.0	25.7
	"	-19.2	6.6	-25.8	25.9
	"	-17.0	3.3	-20.3	31.4
	"	-16.8	5.9	-22.7	29.0
	"	-14.5	12.3	-26.8	24.9
	-5°	-21.3	8.2	-29.5	22.2
	"	-15.0	13.0	-28.0	23.7
	-6°30'	-13.7	10.0	-23.7	28.0
	—		11.9		39.8
	—		13.8		37.9
	—		7.7		44.0

OBJECT

951.69

AZ.

STADIA

Tat Δ J

GE 254°30' 72

" 229°40' 90

" 206°— 150

" Fe 199°20' 208

" " 210°20' 226

" " 315°— 203

" " 228°— 14.8 0.7

" " Cor 252°20' 127

" End Fe 246°30' 84

" 258°30' 117

" 270°— 117

" 274°— 120

" 298°10' 124

" 321°— 174

" 328°— 330

" 335°50' 291

" 340°20' 321

" 343°30' 363

May 10, 1955 79

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

6.7

45.0

2.3

49.4

+2°32'

+6.6

5.0

+1.6

53.3

"

+9.2

4.7

+4.5

56.2

"

+10.0

4.5

+5.5

57.2

"

+9.0

5.6

+3.4

55.1

0.0

51.7

4.4

47.3

4.4

47.3

9.1

42.6

9.8

41.9

13.5

38.2

-5°

-10.8

11.6

-22.4

29.3

"

-15.1

11.6

-26.7

25.0

"

-28.7

7.7

-36.4

15.3

"

-25.3

2.7

-28.0

23.7

2

2°40'

-14.9

8.0

-22.9

28.8

2

"

-16.9

2.9

-19.8

31.9

OBJECT

951.69

AZ.

STADIA

 π at ΔJ

GE Fe 344° - 382

" Rail 346° 40' 423

" Rail 340° 448

" EDGE CEMETRY FC 339° 10' 389° 10' 398

" " " 338° 55' 367

" " " 334° 20' 320

" " " 330° 30' 290

" " " 324° 244

" " " 311° 50' 190

" " " 292° 50' 151

" " " 269° 40' 139

" " " 265° 15' 141

" " " 258° 40' 143

" " " 255° 25' 142

" " " 238° 20' 163

" " " 237° 20' 194

" " " 222° 200

" " " FC 222° 217

FK π

May 10, 1935

80

DIST.

VERT
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

	$-2^{\circ}40'$	-17.8	1.5	-19.3	32.4
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-19.7	6.5	-26.2	25.5
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-20.8	6.1	-26.9	24.8
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-18.5	3.0	-21.5	30.2
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-17.1	0.8	-17.9	33.8
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-14.9	6.7	-21.6	30.1
--	-----------------	-------	-----	-------	------

	$-2^{\circ}40'$	-13.5	13.1	-26.6	25.1
--	-----------------	-------	------	-------	------

	-5°	-21.2	6.4	-27.6	24.1
--	--------------	-------	-----	-------	------

	-5°	-16.5	18.0	-26.5	25.2
--	--------------	-------	------	-------	------

	-5°	-13.1	9.5	-22.6	29.2
--	--------------	-------	-----	-------	------

			13.9		37.8
--	--	--	------	--	------

			10.5		41.2
--	--	--	------	--	------

			10.3		41.4
--	--	--	------	--	------

			11.9		39.8
--	--	--	------	--	------

			9.5		42.2
--	--	--	-----	--	------

	$+1^{\circ}02'$	+3.5	12.0	-8.5	43.2
--	-----------------	------	------	------	------

	$+1^{\circ}02'$	+3.6	0.7	+2.9	54.6
--	-----------------	------	-----	------	------

	$+2^{\circ}48'$	+10.6	9.0	+1.6	53.3
--	-----------------	-------	-----	------	------

OBJECT

951.69

AZ.

STADIA

Nat SJ

G.E Fc

219° 20' 236

" "

216° 30' 253

" "

219° 50' 268

" "

226° 50' 316

" "

231° 20' 363

" "

232° 20' 375

" " COR

238° 10' 455

" 4

239° 447

" "

240° 404

" "

238° 50' 338

" "

234° 10' 283

" "

237° — 255

" "

227° 40' 258

" "

246° 10' 200

" "

263° 25' 173

" "

252° 20' 268

" "

261° 20' 213

" "

253° 20' 332

DIST.	VERT. ANGLE	ROD EQUIV.	May 10 + 11, 1955 ROD	DIFF.	81 ELEV.
	$+2^{\circ}48'$	$+11.5$	8.4	$+3.1$	54.8 .
	$+2^{\circ}48'$	$+12.3$	3.2	$+9.1$	60.8 .
	$+3^{\circ}17'$	$+15.3$	5.2	$+10.1$	61.8 .
	$+3^{\circ}17'$	$+18.1$	6.8	$+11.3$	63.0 .
	$+3^{\circ}17'$	$+20.8$	10.6	$+10.2$	61.9 .
	$+3^{\circ}17'$	$+21.5$	12.4	$+9.1$	60.8 .
	$+1^{\circ}30'$	$+11.9$	12.0	-0.1	51.6 .
			0.7		51.0 .
			6.3		45.4 .
			8.0		43.7 .
			8.4		43.3 .
			8.8		42.9 .
			3.3		48.4 .
			10.0		41.7 .
			11.2		40.5 .
			10.3		41.4 .
			11.6		40.1 .
			9.0		42.7 .

OBJECT

951.69

AZ.

STADIA

Nat J

190

G. E.

259°40' 273

"

243°10' 380

"

261°— 340

" Fe

243°20' 430

" "

261°35' 380

" "

252°10' 400

" "

266°20' 378

187
378

"

253°20' 362

"

266°40' 340

" Fe

275°20' 383

"

266°40' 320

"

275°10' 335

"

275°40' 320

"

266°20' 313

"

275°45' 293

"

263°35' 272

"

274°20' 285

265°10' 210

May 11, 1955

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

			10.6		41.1
			8.3		43.4
			9.2		42.5
			2.6		49.1
			9.9		41.8
			4.0		47.7
			11.8		39.9
			8.8		42.9
	-2°42'	-16.0	2.0	-18.0	33.7
			9.3		42.4
			9.2		42.5
			7.7		44.0
			8.7		43.0
			8.3		43.4
			10.5		41.2
			7.9		43.8
			9.0		42.7
			11.9		39.8

OBJECT

951.69

AZ.

STADIA

G F

269° 40' 236

11

265° 30' 281

11

278° 20' 230

11

274° 50' 178

11

278° 30' 180

11

289° 30' 244

11

294° 20' 200

11

300° 40' 263

11

304° - 191

11

313° 20' 239

11

323° 30' 270

11

318° 30' 288

11

327° 30' 303

11

320° 10' 307

11

332° - 334

11

325° 20' 345

11

335° 20' 368

11

328° - 367

5/11/55

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF	ELEV
			9.3		42.4 .
			13.6		38.1 .
			13.5		38.2 .
			14.7		37.0 .
	-2° 40'	-8.4	9.9	-18.3	33.4 .
	-2° 40'	-11.3	7.7	-19.0	32.7 .
	-2° 40'	-9.3	12.8	-22.1	29.6 .
	-2° 40'	-12.2	9.9	-22.1	29.6 .
	-4° 33'	-15.1	11.9	-27.0	24.7 .
	-4° 33'	-18.9	10.3	-29.2	22.5 .
	-4° 33'	-21.4	5.8	-27.2	24.5 .
	-4° 33'	-22.8	3.3	-26.1	25.6 .
	-2° 40'	-14.1	12.5	-26.6	25.1 .
	-2° 40'	-14.3	12.9	-27.2	24.5 .
	-2° 40'	-15.5	4.8	-20.3	31.4 .
	-2° 40'	-16.0	3.6	-19.6	32.1 .
			14.0		37.7 .
	-1° 41'	-10.8	5.0	-15.8	35.9 .

OBJECT

956.69

AZ.

STADIA

Fc.	337° 20'	406
G. E.	330° 20'	393
"	323° 45'	364
"	317° 50'	354
"	320° 20'	400
So. Rail	339° 40'	449
G. E.	327° 20'	410
Fc.	332° 20'	433
G. E.	328° 40'	426
"	311° 20'	372
"	313° 40'	342
"	305° 20'	343
"	303° 45'	302
"	300° 10'	328
"	295° 25'	281
"	282° -	246
"	280° 25'	280
"	280° 30'	303

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	5/11/53 DIFF.	84 ELEV.
	-1° 41'	-11.9	8.5	-20.4	31.3 .
			12.2		39.5 .
			15.2		36.5 .
	-2° 40'	-16.5	2.8	-19.3	32.4 .
			13.1		38.6 .
	-2° 40'	-20.9	6.1	-27.0	24.7 .
			14.3		37.4 .
	-1° 30'	-11.3	11.0	-22.3	29.4 .
	-1° 30'	-11.2	9.3	-20.5	31.2 .
	-2° 40'	-17.3	6.7	-24.0	27.7 .
	-2° 40'	-15.9	9.0	-24.9	26.8 .
	-2° 40'	-15.9	8.8	-24.7	27.0 .
	-2° 40'	-14.0	9.2	-23.2	28.5 .
	-2° 40'	-15.3	8.2	-23.5	28.2 .
	-2° 40'	-13.1	4.4	-17.5	34.2 .
			12.6		39.1 .
			10.5		41.2 .
			11.8		39.9 .

OBJECT

951.69

AZ.

STADIA

G. E. 280° 15' 306

Fc. 280° 35' 387

G. E. 291° 10' 377

" 295° 40' 336

" 296° 50' 327

939.93

 Δ at ΔK $H_i = 4.95$ To ΔJ 133° 49' 433

G. E. 171° 50' 99

" 176° 50' 75

" 175° 40' 115

" 187° 40' 101

" 185° - 110

" 190° 20' 162

Fc. 201° 20' 178

G. E. 196° - 127

Fc. 206° - 147

DIST.	VERT ANGLE	ROD EQUIV.	5/11/55 ROD	DIFF.	85 ELEV
			9.5		42.2 .
- 1° 09'	- 7.8	4.0	- 11.8		39.9 .
- 2° 43'	- 17.9	5.0	- 22.9		28.8 .
- 2° 43'	- 15.9	7.4	- 23.3		28.4 .
- 2° 40'	- 15.2	5.5	- 20.7		31.0 .
					934.98
+ 1° 24'	+ 10.56	4.0	+ 6.56		946.49
			11.0		28.9 .
			12.8		27.1 .
			13.1		26.8 .
			13.3		26.6 .
			11.6		28.3 .
			11.1		28.8 .
			9.4		30.5 .
			10.7		29.2 .
			7.2		32.7 .

OBJECT

939.93

AZ.

STADIA

OBJECT	AZ.	STADIA
G. E	200° 40'	119
"	203° 20'	103
Fc.	217° —	104
G E.	209° 30'	100
Fc.	236° 40'	73
G E	219° 30'	77
"	228° 10'	67
"	207° 20'	57
"	233° 30'	39
"	182° 10'	20
"	173° 40'	42
"	155° 45'	5.1
"	122° 25'	38
"	93° 20'	35
"	57° 20'	42
"	35° —	64
"	22° —	58
"	25° —	28

3/11/55

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			8.4		31.5 .
			7.3		32.6 .
	+1° 04'	+1.9	9.0	-7.1	32.8 .
			4.4		35.5 .
			4.7		35.2 .
	+1° 10'	+1.6	1.0	+0.6	40.5 .
	+1° 10'	+1.4	1.6	-0.2	39.7 .
			2.1		37.8 .
			4.6		35.3 .
			4.7		35.2 .
			5.7		34.2 .
			9.4		30.5 .
			3.6		36.3 .
			1.8		38.1 .
			5.8		34.1 .
			13.4		26.5 .
			14.5		25.4 .
			11.0		28.9 .

OBJECT

939.93

AZ.

STADIA

GE	59° 20'	21
"	148° -	28
"	235° -	12
"	150° -	6
Fc.	265° -	6.3
Fc.	314° -	86
Fc. Cor.	333° 30'	133
Fc	355° 30'	109
GE.	312° -	52
"	351° -	65
Fc.	12° -	105
Fc.	31° 40'	112
GE	354° 45'	88
"	9° 25'	82
So. Rail	29° 20'	155
So. Rail	355° 50'	152
GE	26° 40'	76
To Δ I	100° 8 1/2'	897 997

87

DIST.	VERT ANGLE	ROD EQUIV.	ROD 5/11/55	DIFF	ELEV
-------	---------------	---------------	----------------	------	------

		10.1		29.8.
		9.6		30.3.
		4.8		35.1.
		4.4		35.5 x
- 12° 08'	- 12.9	4.0	- 16.9	23.0.
- 12° 08'	- 17.7	4.3	- 22.0	17.9.
- 6° 30'	- 15.0	10.0	- 25.0	14.9.
- 6° 30'	- 12.3	13.2	- 25.5	14.4.
- 13° 55'	- 12.1	10.0	- 22.1	17.8.
13° 55'	- 15.2	8.2	- 23.4	16.5.
- 5° 44'	- 10.4	13.0	- 23.4	16.5.
- 5° 44'	- 11.1	6.6	- 17.7	22.2.
- 10° 02'	- 15.1	10.0	- 25.1	14.8.
- 10° 02'	- 14.1	7.7	- 21.8	18.1.
- 1° 55'	- 5.2	11.0	- 16.2	23.7.
- 1° 55'	- 5.1	12.2	- 17.3	22.6.
- 1° 45'	- 2.3	13.0	- 15.3	24.6.
	+ 13.1		+ 9.0	948.93 ✓
+ 0° 50'	+ 14.46	4.0	+ 10.46	950.39

OBJECT

959.69

AZ.

STADIA

~~944.29~~ Δ at ΔL

H. = 5.30

To ΔJ

323° 24' 560

V AZ. To water tower

246° 42 $\frac{3}{4}$ ' $\Delta P. M$

114° 35' 583

Gf.

288° 30' 612

"

289° 50' 558

"

282° 50' 533

"

290° - 610

"

282° 45' 505

"

292° - 550

"

286° 50' 507

"

295° 30' 478

"

288° 20' 458

"

301° 20' 391

"

281° 20' 435

"

312° 20' 300

"

266° 50' 422

"

295° 25' 250

DIST.	VERT ANGLE	ROD EQUIV.	ROD	DIFF	ELEV
					88
					954.39
					938.99
			13.0		946.69
					931.29
	+1° 07'	+11.36	3.0	+8.36	968.05
	+1° 11'	+12.7	5.0	+7.7	67.4
	+1° 11'	+11.6	3.8	+7.8	67.5
	+1° 11'	+11.0	2.4	+8.6	68.3
	+1° 11'	+12.6	8.4	+4.2	63.9
	+1° 11'	+10.5	6.1	+4.4	64.1
	+1° 11'	+11.4	7.7	+3.7	63.4
	+1° 11'	+10.5	7.4	+3.1	62.8
	+1° 11'	+9.9	9.5	+0.4	60.1
	+1° 11'	+9.5	8.0	+1.5	61.2
	+1° 11'	+8.1	10.4	-2.3	57.4
	+1° 11'	+9.0	7.1	+1.9	61.6
	+1° 11'	+6.2	11.8	-5.6	54.1
	+1° 11'	+8.7	6.6	+2.1	61.8
			36		56.1

OBJECT

959.69

AZ.

STADIA

G.E.	267° 40'	348
"	288° 50'	343
"	259° 40'	347
"	281° -	254
Fc. Cor	257° 10'	284
G.E.	262° 45'	277
"	320° 15'	246
"	273° 10'	202
"	343° 30'	193
Fc.	251° 40'	205
G.E.	9° 30'	188
Fc. Cor.	236° -	121
G.E.	17° 20'	196
"	34° -	97
"	339° 15'	93
"	249° -	104
"	307° 20'	163
"	280° 20'	117

		5/11/55		89	
DIST.	VERT ANGLE	ROD EQUIV	ROD	DIFF.	ELEV.
			0.0		59.7 .
			1.4		58.3 .
	+ 1° 11'	+ 7.2	6.1	+ 1.1	60.8 .
			3.0		56.7 .
			4.0		55.7 .
			2.1		57.6 .
			6.8		52.9 .
			4.1		55.6 .
			8.5		51.2 .
			4.4		55.3 .
			7.4		52.3 .
			2.5		57.2 .
			6.9		52.8 .
			7.2		52.5 .
			6.5		53.2 .
			4.4		55.3 .
			5.6		54.1 .
			5.0		54.7 .

OBJECT

959.69

AZ.

STADIA

G.E.

298° - 214

"

300° - 55

"

237° 20' 60

"

83° 50' 52

Fc

199° - 88

Fc. Cor.

153° 40' 99

G.E.

184° - 39

B.M

Top M.H. 300' So. of Fc. Line

△ Pt. I

21° 55½' 641
541

G.E.

32° - 235

"

48° 40' 308

"

59° 45' 404

"

62° 50' 450

"

63° 40' 483

"

72° - 376

"

63° 40' 283

"

52° - 212

"

35° 30' 158

2/11/53

90

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

4.6

55.1.

5.2

54.5.

4.9

54.8.

6.4

53.3.

4.7

55.2.

5.0

54.7.

5.6

54.1.

1.52

^{.08}
 958.17 ✓

48.93

10.6

49.09

6.3

53.4.

6.5

53.2.

7.2

52.5.

9.4

50.3.

7.7

52.0.

5.7

54.0.

6.8

52.9.

7.6

52.1.

7.2

52.5.

OBJECT

959.69

AZ.

STADIA

G.E.

60° 20' 99

"

75° 40' 172

"

79° 40' 237

"

82° 45' 294

"

83° 30' 321

"

97° 10' 302

"

97° 10' 238

"

97° 10' 157

"

96° 30' 99

"

127° 40' 119

"

115° 10' 174

"

116° 30' 240

"

104° 20' 300

"

114° 20' 306

"

117° 10' 262

"

123° 25' 209

"

133° 30' 161

F.E.

157° 40' 119

DIST.

VERT.
ANGLEROD
EQUIV.5/11/55
ROD

DIFF.

91
ELEV.

6.9

52.8 .

6.0

53.7 .

6.8

52.9 .

5.7

54.0 .

4.1

55.6 .

3.6

56.4 .

6.8

52.9 .

7.1

52.6 .

6.4

53.3 .

5.2

54.5 .

7.0

52.7 .

6.4

53.3 .

2.8

56.9 .

1.9

57.8 .

4.2

55.5 .

5.7

54.0 .

4.3

55.4 .

4.7

55.0 .

OBJECT

959.69

AZ.

STADIA

Fc.	165° 30'	177
G.E.	142° 40'	227
"	130° 20'	285
"	127° 40'	313
"	141° 10'	360
"	148° 30'	325
"	157° -	305
Fc.	169° 50'	262
Fc.	171° 50'	336
G.E.	161° 40'	354
"	154° -	373
"	148° 50'	400
"	155° -	453
"	161° 50'	437
"	168° 40'	396
Fc.	173° 50'	418
Fc. Cor.	175° 25'	511
Fc.	180° 20'	505

5/11/55

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			4.1		55.6.
			3.0		56.7.
			3.0		56.7.
			0.3		59.4.
			0.5		59.2.
			2.6		57.1.
			3.2		56.5.
			3.7		56.0.
			3.0		56.7.
			2.6		57.1.
			1.3		58.4.
			0.0		59.7.
			0.3		59.4.
			1.8		57.9.
			2.3		57.4.
			2.0		59.7.
	+ 0° 05'	+ 0.8	1.0	- 0.2	59.5.
	+ 0° 36'	+ 5.3	6.0	- 0.7	59.0.

OBJECT

959.69

AZ.

STADIA

Fc	198° 26'	340
----	----------	-----

GE.	185° 10'	287
-----	----------	-----

"	186° 50'	198
---	----------	-----

"	202° 20'	236
---	----------	-----

Fc.	216° 50'	167
-----	----------	-----

973.10

π at A M	$H_i = 5.05$
--------------	--------------

To A L	294° 35'	583
--------	----------	-----

✓ AZ To water - Tower	271° 24'	✓
-----------------------	----------	---

GE.	352° 40'	470
-----	----------	-----

"	356° 50'	434
---	----------	-----

"	2° 40'	460
---	--------	-----

"	11° 45'	468
---	---------	-----

"	19° -	483
---	-------	-----

"	18° -	430
---	-------	-----

"	28° -	519
---	-------	-----

"	35° 20'	555
---	---------	-----

"	43° 45'	480
---	---------	-----

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	5/11/55 DIFF.	93 ELEV.
	+ 0° 36'	+ 3.6	6.0	-2.4	57.3 .
			2.5		57.2 .
			3.0		56.7 .
			3.8		55.9 .
			2.4		57.3 .
					968.05
	- 0° 59'	-10.03	9.0	-19.03	954.07 ³⁹
	- 1° 40'	-13.7	6.9	-20.6	52.5 .
	- 1° 40'	-12.6	10.6	-23.2	49.9 .
	- 1° 40'	-13.4	10.6	-24.0	49.1 .
	- 1° 40'	-13.6	8.7	-22.3	50.8 .
	- 1° 40'	-14.1	4.6	-18.7	54.4 .
	- 1° 40'	-12.5	5.0	-17.5	55.6 .
	- 1° 40'	-15.1	4.7	-19.8	53.3 .
			16.2		56.9 .
			14.5		58.6 .

OBJECT

973.10

AZ.

STADIA

G.E.

37° 40' 433

"

30° 10' 394

"

18° 50' 357

"

6° 50' 340

"

350° 30' 344

"

342° 30' 358

"

330° 30' 296

"

346° 50' 258

"

6° — 245

"

19° 40' 256

"

30° — 276

"

38° 50' 304

"

46° 45' 344

"

54° 30' 400

"

64° 20' 364

"

61° 20' 330

"

55° 20' 271

"

49° 10' 233

DIST.	VERT. ANGLE	ROD EQUIV.	5/11/55 ROD.	DIFF.	ELEV.
-	1° 40'	-12.6	3.7	-16.3	56.8.
-	1° 40'	-11.5	4.4	-15.9	57.2.
-	1° 40'	-10.4	8.1	-18.5	54.6.
-	1° 40'	-9.9	10.9	-20.8	52.3.
-	1° 40'	-10.0	11.1	-21.1	52.0.
-	1° 40'	-10.4	10.0	-20.4	52.7.
-	1° 40'	-8.6	9.3	-17.9	55.2.
-	1° 40'	-7.5	10.3	-17.8	55.3.
-	1° 40'	-7.1	10.7	-17.8	55.3.
-	1° 40'	-7.4	10.6	-18.0	55.1.
			14.2		58.9.
			12.8		60.3.
			10.4		62.7.
			9.8		63.3.
			6.6		66.5.
			8.5		64.6.
			10.0		63.1.
			10.6		62.5.

OBJECT

973.1

AZ.

STADIA

GE

37° 20' 192

"

24° 50' 213

"

14° — 163

"

348° 30' 165

"

338° 10' 120

"

327° 40' 185

"

313° 30' 234

"

288° 40' 225

"

290° 30' 160

"

297° 20' 98

"

348° 30' 41

"

23° 10' 52

"

80° 05' 93

"

102° 10' 134

"

66° 40' 127

"

75° 35' 152

"

74° 50' 195

"

88° 10' 252

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			5/11/55		93
	-1° 40'	-5.6	9.8	-15.4	57.7
	-1° 40'	-6.2	10.8	-17.0	56.1
			11.4		61.7
			10.1		63.0
			8.4		64.7
			12.0		61.1
	-1° 40'	-6.8	8.5	-15.3	57.8
	-1° 40'	-6.5	8.7	-15.2	57.9
	-1° 40'	-4.7	9.3	-14.0	59.1
			11.4		61.7
			6.5		66.6
			7.1		66.0
			8.3		64.8
			9.7		63.4
			12.1		61.0
			8.8		64.3
			6.4		66.7
			5.3		67.8

OBJECT

973.1

AZ.

STADIA

6E

71°30' 300

11

74°55' 361

11

87°10' 390

11

91°50' 348

11

104° 345

11

111°30' 240

11

124°50' 151

11

154°20' 99

11

203°40' 97

11

212°30' 157

11

232°05' 157

11

250°30' 255

11

238°10' 360

11

227°40' 273

11

214°10' 220

11

186°40' 192

11

160° 170

11

135° 230

DIST

VERT
ANGLEROD
EQUIV.5/11/55
ROD

DIFF

96
ELEV

7.5

65.6

5.1

68.0

2.8

70.3

3.2

69.9

6.3

66.8

7.4

65.7

9.2

63.9

4.0

69.1

8.1

65.0

8.1

65.0

10.9

62.2

14.2

58.9

14.0

59.1

12.4

60.7

8.6

64.5

7.7

65.4

8.0

65.1

8.7

64.4

OBJECT

973.1

AZ.

STADIA

GF

121° 330

"

116°40' 400

"

123°50' 445

"

127°55' 430

"

121°50' 372

"

142°10' 343

"

140°25' 295

"

152°55' 302

"

158°10' 255

"

171°30' 275

"

184°50' 293

"

204°20' 318

"

222°40' 385

"

229°20' 430

"

232°20' 500

"

248° 693

"

249°10' 735

"

233°40' 650

5/11/53

97

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
			6.9		66.2.
			2.7		70.4.
+	0° 20'	+2.6	1.0	+1.6	74.7.
+	0° 28'	+3.5	1.0	+2.5	75.6.
			5.9		67.2.
			6.0		67.1.
			8.1		65.0.
			4.0		69.1.
			6.7		66.4.
			2.0		71.1.
			5.3		67.8.
			9.0		64.1.
			12.7		60.4.
			13.8		59.3.
			11.7		61.4.
			14.0		59.1.
			13.1		60.0.
			13.5		59.6.

OBJECT

973.1

AZ.

STADIA

GE

229° 590

"

227° 50' 532

"

223° 520

B M

TOP OF

MANHOLE

900' So. of Fc line

"

216° 20' 465

"

206° 50' 422

"

194° 30' 395

"

182° 40' 390

"

185° 10' 445

"

179° - 502

"

184° - 525

"

181° 20' 590

"

188° 40' 583

"

195° - 560

To A G.

160° 22½' 631

✓

To A N.

188° 35½' 891

5/11/53

98

DIST.

VERT.
ANGLEROD
EQUIV.

ROD

DIFF.

ELEV.

12.6

60.5

12.4

60.7

13.0

60.1 ✓

8.38

964.72⁷⁷

11.2

61.9

10.2

62.9

7.7

65.4

5.0

68.1

5.6

67.5

2.3

70.8

0.0

73.1

- 0.2

72.9

4.1

69.0

7.0

66.1

+ 1° 06'

+ 12.11

7.0

+ 5.11

978.21^{.26}

+ 0° 47'

+ 12.21

5.0

+ 7.21

980.31

OBJECT

985.36

AZ.

STADIA

Atan

Hi = 5.05

To Δ M

8° 35' 1/2 891.

To Δ G

50° 29' 448.

✓ AZ. Top of water tower 315° 40' 04'

BM spk. in p.p.

GE

336° 30' 378

"

341° 10' 440

"

334° 50' 461

"

327° 30' 455

"

319° 30' 492

"

315° 518

"

307° 30' 585

"

299° 20' 532

"

304° 10' 455

"

310° 20' 408

"

313° 20' 362

319° 50' 358

DIST.

ANGLE

ROD
EQUIV.

ROD

DIFF.

ELEV.

980.31

16.95

968.41

6.75

978.61

6.18

977.18

- 2° 26' - 16.0 6.0 - 22.0 63.4

- 2° 27' - 18.0 3.0 - 21.0 64.4

- 2° 28' - 19.8 3.0 - 22.8 62.6

- 2° 37' - 20.7 3.0 - 23.7 61.7

- 2° 28' - 21.2 3.0 - 24.2 61.2

- 2° 28' - 22.3 3.0 - 25.3 60.1

- 2° 28' - 25.2 0.2 - 25.4 60.0

- 2° 20' - 21.7 3.0 - 24.7 60.7

- 2° 20' - 18.5 6.2 - 24.7 60.7

- 2° 23' - 17.0 3.0 - 20.0 65.4

- 2° 23' - 15.1 6.0 - 21.1 64.3

- 3° - 18.7 3.0 - 21.7 63.7

OBJECT

985.36

AZ.

STADIA

GE

330° 309

"

343° 20' 268

"

358° 252

"

~~366~~° 10' 275

"

17° 20' 207

"

31° 40' 243

"

55° 40' 210

"

47° 10' 147

"

31° 40' 117

"

354° 50' 166

"

323° 50' 138

"

305° 50' 205

"

297° 50' 275

"

301° 351

"

294° 20' 380

"

292° 430

"

286° 50' 500

"

276° 40' 468

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	5/12/55 DIFF.	100 ELEV.
-	3°	-16.2	4.1	-20.3	65.1 .
-	3°	-14.0	3.4	-17.4	68.0 .
-	3°	-13.2	1.6	-14.8	70.6 .
-	3°	-14.4	2.0	-16.4	69.0 .
-	3°	-10.8	3.0	-13.8	71.6 .
			10.8		74.6 .
			6.5		78.9 .
			8.4		77.0 .
			10.3		75.1 .
			9.2		76.2 .
			14.0		71.4 .
-	3°	-10.7	8.1	-18.8	66.6 .
-	3°	-14.4	6.0	-20.4	65.0 .
-	3°	-18.4	5.9	-24.3	61.1 .
-	3°	-19.9	2.3	-22.2	63.2 .
-	3°	-22.5	1.4	-23.9	61.5 .
-	2°30'	-21.8	0.3	-22.1	63.3 .
-	2°30'	-20.4	0.7	-21.1	64.3 .

OBJECT
OBJECT

985.36

AZ.
AZ.

STADIA
STADIA

GE	276°	390
"	275°20'	338
"	288°10'	340
"	279°20'	239
"	283°	162
"	294°40'	84
"	9°	34
"	66°40'	68
"	85°20'	116
"	91°05'	177
"	110°10'	196
"	117°40'	142
"	134°40'	87
"	213°50'	67
"	243°50'	120
"	258°25'	177
"	258°20'	244
"	261°40'	346

DIST.	VERT ANGLE	ROD EQUIV.	ROD	5/12/55 DIFF.	101 ELEV.
-	2°30'	-17.0	5.2	-22.2	63.2.
-	3°	-17.7	6.1	-23.8	61.6.
-	3°	-17.8	4.8	-22.6	62.8.
-	3°	-12.5	4.8	-17.3	68.1.
-	3°	-8.5	6.5	-15.0	70.4.
-	3°	-4.4	7.7	-12.1	73.3.
			5.3		80.1.
			8.4		77.0.
			5.8		79.6.
			2.5		82.9.
			2.0		83.4.
			5.9		79.5.
			7.3		78.1.
			5.4		80.0.
			9.9		75.5.
			12.8		72.6.
-	1°29'	-6.3	10.7	-17.0	68.4.
-	1°29'	-9.0	12.0	-21.0	64.4.

OBJECT

985.36

AZ.

STADIA

G. F.

263° - 440

" 263° 45' 496

" 254° 30' 512

" 252° - 435

" 248° 40' 354

" 242° - 270

" 233° - 204

" 197° 20' 125

" 149° 40' 132

" 126° - 200

" 118° 30' 254

" 127° 40' 278

" 138° - 233

" 168° - 198

" 191° 20' 178

" 214° - 211

" 226° 40' 257

" 239° 10' 337

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	5/12/55 DIFF.	102 ELEV.
-	1° 29'	-11.4	10.5	-21.9	63.5.
-	1° 29'	-12.8	8.6	-21.4	64.0.
-	1° 29'	-13.3	9.8	-23.1	62.3.
-	1° 29'	-11.3	10.4	-21.7	63.7.
-	1° 29'	-9.2	11.6	-20.8	64.6.
-	1° 29'	-7.0	10.2	-17.2	68.2.
-	1° 29'	-5.3	8.4	-13.7	71.7.
			6.4		79.0.
			6.7		78.7.
			4.6		80.8.
			+ 1.4		86.8.
			+ 0.7		86.1.
			4.7		80.7.
			2.7		82.7.
			5.5		79.9.
			9.4		76.0.
			13.9		71.5.
-	1° 29'	-8.7	10.4	-19.1	66.3.

OBJECT

985.36

AZ.

STADIA

G. E.	244° 25'	400
"	249° 30'	496
"	241° 40'	558
"	236° 20'	443
"	230° 30'	370
"	221° 10'	293
"	217° 50'	252
"	201° 10'	238
"	168° 40'	242
"	151° —	260
"	143° 30'	278
Ditch	140° 20'	293
"	155° —	302
G. E.	169° 30'	295
"	186° 20'	323
"	200° 45'	360
"	213° 50'	426
"	224° 10'	510

5/12/55

103

	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 1° 29'	- 10.4	10.1	- 20.5	64.9 .
	- 1° 29'	- 12.8	10.6	- 23.4	62.0 .
	- 1° 29'	- 14.5	10.7	- 25.2	60.2 .
	- 1° 29'	- 11.5	10.1	- 21.6	63.8 .
	- 1° 29'	- 9.6	9.3	- 18.9	66.5 .
			13.4		72.0 .
			12.1		73.3 .
			6.3		79.1 .
			1.8		83.6 .
			3.4		82.0 .
			2.2		83.2 .
			3.7		81.7 .
			4.7		80.7 .
			+ 0.6		86.0 .
			2.1		83.3 .
			4.0		81.4 .
			10.7		74.7 .
	- 1° 29'	- 13.2	6.9	- 20.1	65.3 .

OBJECT

985.36

AZ.

STADIA

GE	231° 15'	604
"	227° —	674
"	222° 22'	608
"	217° 25'	535
"	218° 20'	479
"	212° 20'	443
"	210° —	477
"	205° 25'	443
"	197° 30'	410
"	189° 40'	382
"	182° 15'	368
Ditch	178° 25'	370
"	185° 40'	410
"	190° 45'	448
GE.	196° 30'	423
"	194° 40'	442
Ditch	195° 40'	478
GE.	201° 40'	472

9/12/55

104

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 1° 29'	-15.6	10.9	-26.5	58.9 .
	- 1° 29'	-17.5	9.5	-27.0	58.4 .
	- 1° 29'	-15.7	9.0	-24.7	60.7 .
	- 1° 29'	-13.9	4.3	-18.2	67.2 .
	- 1° 29'	-12.4	3.1	-15.5	69.9 .
			10.3		75.1 .
			13.3		72.1 .
			7.9		77.5 .
			2.1		83.3 .
			1.7		83.7 .
			4.6		80.8 .
			7.8		77.6 .
			9.4		76.0 .
			10.7		74.7 .
			2.4		83.0 .
			6.2		79.2 .
			12.3		73.1 .
			8.3		77.1 .

OBJECT

985.36

AZ.

STADIA

Ditch	202° 30'	526
GE.	210° 30'	520
Ditch	210° 30'	545
GE.	214° 25'	550
Ditch	215° 50'	570
"	221° —	607
Shld. of Rd	224° 30'	672
" "	220° —	650
" "	215° 40'	590
" "	209° 30'	571
" "	203° 35'	515
" "	199° 20'	525

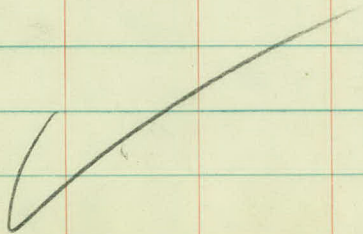
B. M.

spk. in p.p.

5/12/55- 105

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

		14.2		71.2
		14.4		71.0
- 0° 45'	-7.1	10.0	-17.1	68.3
- 0° 45'	-7.2	9.1	-16.3	69.1
- 1° 29'	-14.8	4.6	-19.4	66.0
- 1° 29'	-15.7	8.3	-24.0	61.4
- 1° 29'	-17.4	4.0	-21.4	64.0
- 1° 29'	-16.8	3.7	-20.5	64.9
- 1° 29'	-15.3	3.3	-18.6	66.8
		16.3		69.1
		14.1		71.3
		12.6		72.8
		6.21		(978.96) 979.15



OBJECT

H.I. 951.74

AZ.

STADIA

Nat Point "J"

Water Tower 194° 16' 1/2"

BM Spike in End Rail Fo Post

Pt "J1"

223° 41' 1/2" 302

15'

45'

Bench

BM 12.47 963.09

(950.62)

BM

0.07 963.02

H.I. 968.44 ✓

K at Pt "J1" To "J" 43° 41' 1/2" 301

BM Nail in PP at NE Cor Barn

to Pt "L"

113° 22' 391

NW Cor Barn

205° 10' 67

NE " "

169° 10' 62

G.F.

239° 40' 70

n

222° - 56

09

P.K.
 AM
 20
 M.H.
 EG

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV. 106 ✓
			H.I. = 5.2		946.49

			1.12		950.62
+2°31'	+13.3	2.0	+11.3		963.04

Spike in End Rail Fe Post
 Nail in PP at NE Cor Barn

			H.I. 5.45		963.04
-2°18'	-12.1	10.0	-22.1		946.34
			5.42		963.02
			14.05		954.39 ✓

			0.6		67.8
			0.5		67.9
			4.8		63.6
			1.9		66.5 -

OBJECT

AZ.

STADIA

968.44

G. E.	201° -	47
"	157° 45'	50
Fc.	261° 50'	137
G. E.	160° 40'	84
Fc. Cor.	262° 15'	178
Base of wall	252° -	196
G. E.	168° 15'	142
Top of wall	252° -	196
Base of wall	246° 50'	153
Top of wall	246° 50'	153
G. E.	168° -	215
Base of wall (End)	239° -	117
Top of wall End	239° -	117
at Bldg.	167° 40'	258
Fc.	227° 50'	90
G. E.	164° 05'	210
"	158° 30'	147
"	206° 10'	121

DIST.	VERT. ANGLE	ROD EQUIV.	6/7/55		107
			ROD	DIFF.	ELEV.
			0.8		67.6
			1.3		67.1 —
			12.6		55.8
			1.0		67.4
- 1° 27'	- 4.5	12.0	- 16.5		51.9 —
- 1° 27'	- 5.0	12.0	- 17.0		51.4
+ 0° 59'	+ 2.4	3.0	- 0.6		67.8
			13.0		55.4
			11.5		56.9
			8.7		59.7
+ 0° 40'	+ 2.5	4.0	- 1.5		66.9
			6.9		61.5
			5.0		63.4
+ 1° 02'	+ 4.6	6.0	- 1.4		67.0
			3.7		64.7
			3.1		65.3
			4.7		63.7 —
+ 0° 58'	+ 2.0	3.0	- 1.0		67.4

OBJECT

AZ.

STADIA

968.44

G.E.	148° -	93
"	216° 15'	136
"	132° -	60
"	230° -	174
"	144° 10'	33
"	214° -	35
wall	238° 50'	225
Cor. shed	147° 20'	168
wall	229° 20'	257
shed	153° 30'	202
G.E.	219° 10'	215
Shed	158° 45'	245
G.E.	207° -	186
"	206° 20'	256
"	215° 40'	280
wall	221° 20'	297
wall	215° 40'	336
G.E.	206° 30'	310

6/7/55-188

VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
		4.9		63.5
		2.3		66.1
		5.2		63.2
		7.7		60.7
		5.0		63.4
		4.6		63.8
+ 1° 14'	+ 4.8	16.0	-11.2	57.2
		5.8		62.6
		9.0		59.4
		3.5		64.9
		5.8		62.6
		1.2		67.2
+ 1° -	+ 3.2	5.0	-1.8	66.6
+ 1° -	+ 4.5	6.5	-2.0	66.4
		4.5		63.9
		6.7		61.7
		4.7		63.7
+ 1° 08'	+ 6.1	8.0	-1.9	66.5

.. OBJECT

AZ.

STADIA

Hill 976.25 ✓

At Pt "F"

AZ Water Tower

246°30'

BM Spike in Lone oak Tree

Fc. Cor.

34°50'

345

Fc.

22°45'

309

G.F.

30°45'

386

"

19°40'

360

"

27°25'

438

"

17°25'

409

"

24°15'

496

"

16° -

440

"

21°30'

553

"

14°25'

500

"

19°45'

610

"

13° -

567

"

18°45'

640

S.W. cor. Shed

17°08'

560

FR
AM
LC
MMc
EG

June 8, 1953

109

VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
				970.98 ✓
		9.43		966.82 ✓
		5.2		71.1 -
		8.3		68.0 .
		7.2		69.1 .
		9.5		66.8 .
		10.4		65.9 .
		13.4		62.9 .
		8.8		67.5 .
		15.6		60.7 .
		12.3		64.0 .
		16.2		60.1 .
		15.7		60.6 .
- 1° 23'	-13.7	4.9	-18.6	57.7 .
- 0° 37'	-6.9	9.0	-15.9	60.4 .
- 0° 37'	-6.0	10.9	-16.9	59.4 .

OBJECT

AZ.

STADIA

976.25

S.E. Cor. shed	18° 20'	564
N.W. " "	16° 37'	580
4 Rd.	11° 30'	615
4 Rd	3° 50'	605
G.E.	4° —	565
"	11° 30'	725
"	3° 50'	485
"	4° 10'	425
"	7° —	718
"	4° 30'	345
"	0° 00'	710
Fc.	4° 30'	286
Fc.	352° 25'	289
G.E.	356° 40'	603
"	353° 15'	323
"	350° 40'	611
"	353° 20'	355
Fc.	351° ~	517

4/8/55

110

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-	0° 39'	-6.4	10.0	-16.4	59.9
-	0° 39'	-6.6	10.9	-17.5	58.8
-	0° 39'	-6.9	11.2	-18.1	58.2
-	1° 23'	-14.6	5.5	-20.1	56.2
-	1° 23'	-13.6	5.8	-19.4	56.9
-	1° 23'	-17.5	3.7	-21.2	55.1
-	1° 23'	-11.7	5.0	-16.7	59.6
-	1° 23'	-10.2	5.2	-15.4	60.9
-	1° 23'	-17.3	2.7	-20.0	56.3
			13.0	-13.0	63.3
-	1° 23'	-17.1	7.9	-25.0	51.3
			12.3	-12.3	64.0
			10.0	-10.0	66.3
-	1° 23'	-14.5	6.8	-21.3	55.0
			9.5	-9.5	66.8
-	1° 23'	-14.7	7.1	-21.8	54.5
			13.0	-13.0	63.3
-	1° 23'	-12.5	7.5	-20.0	56.3

OBJECT

AZ.

STADIA

976.25

G. F. 354° 30' 400

F_o. 350° 20' 450

G. E. 354° 20' 430

F_o. 347° 45' 365

G. E. 353° 50' 500

F_o. Cor. 345° 30' 296

" 353° 45' 590

To A "F.I." 330° 06' 344

H.I. 976.26 ok to use per
F.K.
W.S.B.

Nat "F.I." To F. 150° 06' 343

B. M. spt. in large oak

G. E. 6° 50' 215

" 5° 10' 260

" 29° 10' 44

E. Rd. 4° 35' 305

G. E. 5° — 95

6/8/55

111

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-	1° 23'	9.6	3.6	-13.2	63.1
-	1° 23'	10.8	3.8	-14.6	61.7
-	1° 23'	10.4	1.9	-12.3	64.0
			14.4	-14.4	61.9
-	1° 23'	12.1	6.8	-18.9	57.4
			9.3	-9.3	67.0
-	1° 23'	14.2	6.5	-20.7	55.6
			13.22	-13.22	963.03
		H _i = 525			
7?		8	4.0		
		8	1.44 ok.		966.82
			13.8		54.5
			14.3		54.0
			8.2		60.1
			14.5		53.8
			8.7		59.6

OBJECT

AZ.

STADIA

968.26

G. E. 4° 30' 362

" 10° 40' 139

" 5° - 397

" 346° 20' 160

" 356° 10' 395

" 355° 20' 345

" 334° 40' 102

& Rd 354° 15' 305

G. E. 298° 10' 63

" 353° 35' 263

" 281° 30' 136

Fc. 349° 40' 218

G. E. 302° 30' 160

Fc. 330° 30' 248

G. E. 333° 15' 292

G. E. 320° 20' 215

& Rd Ent. 335° 20' 343

G. E. 309° 40' 271

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	6/8/55 DIFF.	112 ELEV.
	- 1° 16'	8.0	11.0	-19.0	49.3
	- 1° 16'	3.1	9.4	-12.5	55.8
	- 1° 16'	8.8	13.8	-22.6	45.7
			11.5		56.8
	- 1° 16'	8.7	13.5	-22.2	46.1
	- 1° 16'	7.6	9.3	-16.9	51.4
			10.4		57.9
			15.0		53.3
			9.5		58.8
			14.2		54.1
			12.7		55.6
			14.6		53.7
			13.6		54.7
			13.8		54.5
			14.6		53.7
			13.2		55.1
			15.5		52.8
			15.2		53.1

OBJECT

AZ.

STADIA

968.26

G. E

337° 50' 423

"

296° 40' 238

"

333° - 443

"

279° - 220

driveway

330° - 384

G E

276° 20' 295

F.C.

318° 30' 285

G. E.

287° 30' 310

F.C.

310° 50' 330

G E

299° - 338

"

315° 15' 350

"

293° 10' 404

"

311° 10' 406

"

283° 50' 395

F.C.

303° 30' 384

F.C.

298° 30' 437

G. E.

275° 30' 394

"

307° 10' 470

6/8/55

113

DIST.	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
	- 1° 16'	9.3	10.0	19.3	49.0
	- 1° 16'	5.3	10.7	16.2	52.1
	- 1° 16'	9.8	8.6	18.4	49.9
	- 1° 16'	4.9	11.1	16.0	52.3
	- 1° 16'	8.5	6.8	15.3	53.0
	- 1° 16'	6.5	14.3	20.8	47.5
	- 1° 16'	6.3	8.2	14.5	53.8
	- 1° 16'	6.9	13.3	20.2	48.1
	- 1° 16'	7.3	10.3	17.6	50.7
	- 1° 16'	7.5	12.0	19.5	48.8
	- 1° 16'	7.7	8.5	16.2	52.1
	- 1° 16'	8.9	14.0	22.9	45.4
	- 1° 16'	9.0	9.3	18.3	50.0
	- 1° 16'	8.7	15.0	23.7	44.6
	- 1° 16'	8.5	13.3	21.8	46.5
	- 1° 16'	9.7	14.8	24.5	43.8
	- 1° 16'	8.7	14.8	23.5	44.8
	- 1° 16'	10.4	12.5	22.9	45.4

OBJECT

AZ.

STADIA

968.26

G. E. 274° 35' 458

" 310° 40' 494

" 284° - 464

" 290° 40' 477

" 304° 50' 560

Fc. 290° 20' 505

G. E. 302° 20' 542

Fc. 284° 20' 498

Fc. 273° 25' 500

Fc. Cor. 293° 43' 514

A Z. water Tower 238° 14'

9/8/55

114

DIAT	VERT. ANGLE	ROD EQUIV.	ROD	DIFF.	ELEV.
-	1° 16'	10.1	13.9	24.0	44.3 —
-	1° 16'	10.9	10.5	21.4	46.9 .
-	1° 16'	10.3	15.3	25.6	42.7 .
-	1° 16'	10.5	16.3	26.8	41.5 .
-	2° 25'	23.6	8.0	31.6	36.7 .
-	2° 25'	21.3	5.7	27.0	41.3 .
-	2° 25'	22.8	9.2	32.0	36.3 ✓
-	1° 16'	11.0	14.6	25.6	42.7 .
-	1° 16'	11.1	12.2	23.3	45.0 .
-	2° 28'	22.1	7.0	29.1	39.2

OBJECT

AZ.

STADIA

Poor Farm
stadia Check

H.I. = 958.65 ✓

Obj

AZ Stadia

π at P.I. 15 + 79.36

to 0+00 on Ripley St. 180°00'

2nd Manhole So. of Fence 202 95°10'

✓ Tipwater Tower 252°52½'

B.M. 45°21½' 430

G.E. 291°46' 145

" 314° — 188

" 326° — 255

K. 333°45' 335

Fc. 349°40' 307

G.E. 344°10' 245

" 337° — 170

" 309° — 86

" 13°40' 54

" 8°20' 136

" 6° — 190

" 3°40' 288

116
ELEV.

953.2

958.10

950.53

54.7

53.3.

51.2 .

52.7 .

52. Z.

51.9.

52.9.

54.0 .

52.9.

52.7.

52.4.

52.6

OBJECT

AZ.

STADIA

Fc. 3° - 305

Fc. 17° 20' 320

Gr. E 161° 50' 134

" 21° 10' 260

" 144° 25' 164

" 27° 45' 200

" 132° 36' 212

" 48° - 115

" 126° 30' 261

" 121° 40' 312

" 72° 20' 90

" 117° 10' 374

" 108° - 355

" 83° - 225

" 109° 10' 243

" 59° - 235

" 112° - 184

" 42° 10' 285

July 22, 1955 117

Vert.
Angle

Rod

958.7

2.9

55.8

6.7

52.0

2.3

56.4

4.9

53.8

2.2

56.5

6.9

51.8

+ 0.2

58.9

5.0

53.7

+ 0° 59'

5.0

+ 0° 59'

5.0

6.2

52.5

+ 1° 04'

5.0

+ 1° 04'

4.3

3.8

54.9

1.2

57.5

5.6

53.1

3.3

55.4

7.4

51.3

Obj

AZ Stadia

G.E.

36° 10' 320

"

138° 50' 75

Fc.

32° - 364

G.E.

99° - 150

Fc.

41° 20' 410

G.E.

95° 15' 213

"

48° 05' 364

"

72° 30' 332

"

60° 50' 300

"

79° 20' 320

"

59° 30' 365

"

76° - 256

"

50° 50' 413

Fc

47° 05' 452

G.E.

72° 10' 275

July 22, 1955 118

Rod

958.7

6.1

52.6

4.0

54.7

6.3

52.4

5.6

53.1

8.9

49.8

1.9

56.8

6.5

52.2

+ 0.5

59.2

4.3

54.4

3.5

55.2

6.3

52.4

2.9

55.8

8.3

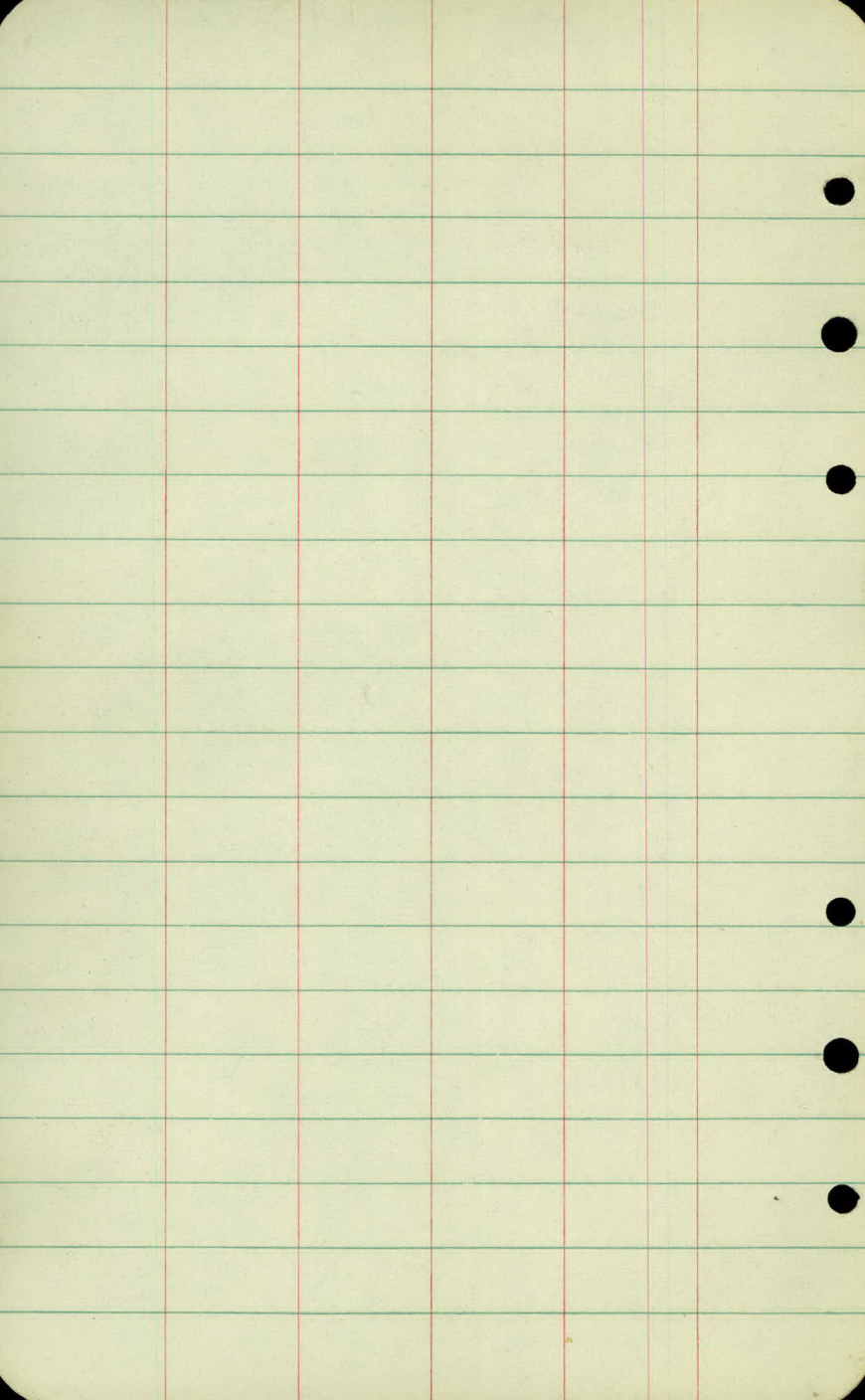
50.4

9.7

49.0

3.3

55.4



Poor Farm

Railroad Location



Co Rd 'B' 2612.16

2649.24

78°50'

500' (16.4)

500
649.90

253.29

50

98.70

P.I.

348.27

2629.94

42°29.6'

R.O.T.
42°W
1308.24

1231.47

East
Arc

2628.53

ctr Sec 14

0100

White Bear Ave

N. St. Paul Road