

2013

PVC-005-Urban-Field Notes-2013

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Atholl

~~King Stables~~

~~Spital~~

~~Balgownie~~
~~Johnston~~

Esplanade

~~Row~~

~~Heriot~~

~~Kirk~~

~~Colme~~
~~High Riggs~~

Fountainbridge

Sample

Ferry

Queensferry

Young

~~Fredrick~~

Glenfinnan

~~Banks~~
~~New Kew~~

Putrig

~~Bristle~~

Silverton

Muirhouse

~~Cannock~~

Glenpenny

Clermiston

Barnston

~~Cuthbert~~

Coates

Comely

Saughton

Lutheran

~~Gorge~~

~~Cowgate~~

~~Gogarburn~~

~~Brighton~~

~~Longstone~~

Wester

Hales

~~Dumbell~~

~~Cartberry~~

White Craig

Cousland

Dalkeith

Loss wade

Loanhead

Haveral

Straiton

Swanston

Torphin

Spylaw

Bloomiehall

Morningside

Slateford

✓ Stanhouse
✓ Redhall
✓ King's knowe
✓ Baberton
✓ Sighthill
✓ Gyle
✓ Corstorphine
✓ Drum brae
✓ Brunsfield
✓ Lawriston
✓ Fel ford
✓ Liberton
✓ Napier
✓ Morton hall
✓ Amislee
✓ Dilton
✓ Braeall
✓ Granton
✓ Warriston

✓ Bonnington
✓ Meadows
✓ Stake bridge
✓ Albert Road
✓ Newington
✓ Roseburn
✓ Merchiston
✓ Puddingston
✓ Inverleith
✓ Hochenau
✓ Murrayfield
✓ Figgatefield
✓ Ravelston
✓ Craigmiller
✓ Carrick
✓ Craigentony
✓ Knowe
✓ Seafield
✓ Saughston
✓ Hawkhill
✓ Dole
✓ Meggetland
✓ Craiglockhart
✓ Merchiston
✓ Braedburn

29 May 2013

Δ Pt 1, set up w/ Brunton on
28 May

IH = 1.405

RH = 1.60

Setting to North, on Pt 2

1. Δ set up
2. N stake 0° Dist
3. East stake 90° Dist 5.92

1 July 2013

set up over S30 E 0
to set to NORTH

Going to put in a West
stake near the horn
drip, then another
using S E 0.

From those 2, set to
NORTH, to shoot grade
of 5m in the SW part
of the site.

Using N 0 E 0 to set North
IH 128
RH 149

HR 0.00
U 90° 34' 52"

Pt elev -0.306

For elevation, push triangle 2x

July 2013

Taking elevations on N-S stake line

Set up over S 30 E 0

N 0 E 0 - 0.298

N 5 E 0 - 0.432

N 10 E 0 - 0.463

N 15 E 0 - 0.588

N 20 E 0 - 0.677

N 25 E 0 - 0.810

N 30 E 0 - 0.885

N 35 E 0 - 0.958

N 40 E 0 - 1.124

N 45 E 0 - 1.204

N 50 E 0 - 1.361

N 55 E 0 - 1.337

N 60 E 0 - 1.490

N 60 E 0 - 1.689

Taking elevations South of main stake

S 5 E 0 - 0.202

S 10 E 0 - 0.161

S 15 E 0 - 0.077

S 20 E 0 -

S 25 E 0 + 0.225

S 35 E 0 .291

1 July 2013

Shooting elevations on excavated
test pits in OP 54

starting @ NØ W5, going WEST
+ ELEV

NØ	W5	350°29'	-0.805
NØ	W10	341°23'	-0.660
NØ	W15	332°39'	-0.025
NØ	W20	326°24'	-0.600
NØ	W25	_____	-0.1
NØ	W30	_____	_____
NØ	W35	310°34'	-0.575
NØ	W40	307°03'	-0.830

starting @ NØ E5, going EAST

NØ	E5	9°41'	-1.510
NØ	E10	18°27'	-1.84
NØ	E15	26°26'	-2.140
NØ	E20	33°27'	-2.76
NØ	E25	45°02'	-3.630
NØ	E30	45°02'	-3.636
NØ	E35	49°39' NE corner	-3.905
NØ	E40	53°03'	-4.435
NØ	E45	56°19'	-5.175

1 July 2013

Shooting elevations on excavated
test pits in OP54

Starting with N40 EUS

N40	W15	355° 43'	-3.350
N40	W10	351° 46'	-3.34

N40	E5	3° 51'	-3.876
N40	E10	7° 42'	-4.260
	E15		
	E20		

2 July 2013

~~IH 1.36~~

~~RH 1.575~~

Continuing to set stakes -- ex-
tending grid to WEST to
take in SW portion of area

Set up on S30° E0

First line to WEST
Not writing down

Making Data File: Basic

OP: S30° E0

IH: 1.36

RH: 1.575

3 July

1 OP Δ

IN 1.321

~~2 BS \rightarrow 2~~

RH 1.575

~~3 \rightarrow EO~~

Set up on Δ OP1

setting to North on main N
Stake N \rightarrow EO

Setting out stakes in SW
part of site

First, setting line moving West
from Δ (S \rightarrow EO)

Checked WEST Stake @

S \rightarrow W \rightarrow S

Elw

+0.41

3 July

Setting stakes

	ELEV
S30 W10	0.57
W15	0.65
W20	0.81
W25	0.74
W30	0.89
W35	0.94
W40	0.97
W45	1.09
W50	1.38

RM-1.575

TH = 1.34 Setting to S30 E1

S30 W50 to S30 E0 -0.984

repeat S30 W50 to S30 E0

	ELEV
S30 W55	0.468
S30 W60	0.559
S30 W65	0.562
S30 W70	0.483
S30 W75	0.602
S30 W80	0.747
S30 W85	0.963
S30 W90	1.298
S30 W95	1.427
S30 W100	
S30	

Scale: 1 square = _____

Scale: 1 square = _____

3 July

FT 1.34

RT 1.575

AS 30 W 50

Setting stakes to South on the
W 50 line

ELEV

S 35 W 50

0.325

S 40 W 50

0.425

S 45 W 50

0.611

S 50 W 50

0.585

S 55 50

0.486

S 60 50

0.597

S 65 50

0.694

S 70 50

0.844

S 75 50

S 80 50

S 85 50

} not used

3 July

IN 1.365 RH 1.575

Δ 555 W 50

shooting E-W along S 55 line

ELEV

S 55 W 55 0.363

S 55 60 0.654

S 55 65 0.764

S 55 W 45 0.056

S 55 40 0.005

S 55 35 - 0.073

Δ 555 W 5

shooting to orig Δ used for
taking pts during the first
week of work

WEST DATUM 06/03/13

3 June 2013

distance 9.735

Elev 6.644

← 273°55'

3 July

A 555 W 50

Shooting in basic stakes for
a copper area test excavation
3-4-5 triangle

	K	Dist	ELEV
1	254° 14'	11.698	0.698
2	254° 23'	12.831	0.670
3	254° 05'	13.789	0.742
4	254° 18'	14.756	0.794

Shooting in test pits along depression

5	<u>53CH</u> NE	220° 52'	42.38	1.304
6	53CH SE	219° 29'	42.708	1.372
7	53CH SW	220° 12'	43.666	1.357
8	53CH NW	221° 20'	43.279	1.346
9	<u>53CF</u> NW	219° 11'	40.746	1.266
10	53CF NE	218° 23'	39.818	1.292
11	53CF SE	217° 01'	40.253	1.306
12	53CF SW	217° 53'	41.197	1.338
13	<u>53</u> <u>CD</u> NW	216° 03'	35.766	1.221
14	NE	214° 57'	34.831	1.254
15	SE	213° 52'	35.611	1.281
16	SW	214° 47'	36.374	1.279
17	<u>53</u> <u>CD</u> NW	210° 11'	32.484	1.115
18	NE	208° 46'	31.799	1.045
19	SE	207° 47'	32.775	1.003
20	SW	209° 14'	33.184	1.144

Scale: 1 square = _____

Scale: 1 square = _____

29	Rock	45cm	193.11	39.5 38.5	1.387
30	"	45	191.28	38.2	1.447
31	"	50	184.45	47.0	1.296
32	"	80	179.32	63.5	1.764
33	"	60	189.15	66.8	1.976
34	"	60	209.04	45.6	1.590
36	"	50	191.45	67.4	1.989
37	Line	50	192.34	69.3	2.172
38	Rock	60	210.21	64.9	2.363
39	Rock	90	194.06	73.5	2.202
40	"	50	188.57	83.1	2.115
41	"	86?	185.01	75.5 75.5	2.020
42	"	40	177.35	67.7	1.548
43	"	50	167.01	61.6	1.127
44	"	50	161.34	60.1	0.888
45	"	70	160.39	58.5	1.009
46	"	60	155.34	57.6	0.711

Scale: 1 square = _____

3 July

△ SSS W50

		κ	DIST	ELEV
21	53 CB	NW	204 14'	28.947 0.913
22		pt	199° 32'	27° 46.7 0.950
23		pt	199° 55'	26.515 0.896
24		pt	197° 46'	26.034 0.850
25		pt	197° 10'	27.012 0.838
26		NE	195° 02'	26.558 0.882
27		SE	193° 56'	27.462 0.847
28		pt	197° 27'	28.492 0.842
29		pt	196° 49'	29.443 0.735
30		pt	198° 28'	29.765 0.758
31	CASTLE	pt	199° 43'	28.821 0.891
32	CASTLE?	SWN	203° 02'	29.720 0.914
33	CASTLE	N	197° 44'	26.816 0.932
34	CASTLE	S	197° 50'	28.834 0.896
35	⁵³ CE	NW	196° 49'	21.692 0.752
36	53 CE	NE	182° 57'	20.494 0.675
37		SE	182° 54'	21.579 0.620
38		SW	195° 54'	22.685 0.829
39	53 CK	NW	165.09	18.845 0.240
40		NE	162.06	19.033 0.222
41		SE	162.06	20.009 0.240
42		SW	165.09	19.993 0.231

Scale: 1 square = _____

19 June 2013				
Brig rocks, 2 lines				
PT	K	DIST	ELEV	
6 Rock	60 cm	103.44	40.2	-0.508
7 Rock	60	115.58	36.2	-0.313
8 Rock	40	127.53	29.6	-0.044
9 Rock	60	127.58	52.9	-0.067
10 Rock	40	131.59	29.5	-0.007
11 Rock	40	136.09	30.9	0.143
12 Rock	40	136.58	28.46	0.132
13 Rock	40	140.58	25.5	0.140
14	50	146.57	45.1	0.488
15	50	150.4	21.6	0.289
16	40	210.41	18.1	0.799
17	50	239.36	11.8	0.573
18	50	241.56	8.3	0.583
19	50	253.58	7.3	0.486
20	40	266.58	6.4	0.397
21	50	280.03	4.8	0
22	60	318.13	4.0	0.538
23	1.10	252.01	28.2	1.709
24	.50	252.58	21.2	1.58
25	.45	251.56	26.4	0.998
26	70	249.01	28.0	1.083
27	45	207.01	36.8	1.359
28	70	201.0	42.5	1.455

Scale: 1 square = 3.90 distance Man & Chapeau

3 JULY			
A 555 W 56			
		DIST	ELEV
43.53 CG NW	136.03	20.123	0.186
44	NE	133.07	20.596
45	SE	138.01	24.141
46	SW	140.25	23.793
RH: 2.33			
taking elevations on swale / creek			
47 elev pt	129.32	28.86	0.613
48	132.05	28.828	0.409
49	135.40	29.257	0.394
50	139.10	31.534	0.483
51	150.35	30.894	0.761
52	152.02	28.562	0.590
53	153.40	24.738	0.670
54	148.15	23.972	0.769
55	168.18	24.972	0.844
56	168.19	27.919	0.889
57	166.33	30.370	1.074
58	166.39	34.238	0.924
59	171.45	35.193	1.058
60	175.04	33.522	1.307
61	178.17	31.561	1.342
62	179.01	28.715	0.967
63	188.56	29.425	1.163
64	187.29	32.293	1.513

Scale: 1 square =

19 July 2013

Shooting ELEVATIONS on Northern
test pits.

A N45 E10 BACKSIGHT

N45 W10 @ 270°

A 270 DIST ^{20.036} ~~20.03~~ ELEV 0.485

IT 1.3835 RH 1.42

Shoot N40 line

1 N40 W10	254.08	20.5	0.409
2 N40 W5	251.52	15.7	0.436
3 N40 E0	243.41	11.1	0.291
4 N40 E5	224.46	7.0	0.250
5 N40 E10	179.46	4.9	0.113
6 N40 E15	134.37	7.0	-0.038
7 N40 E20	115.55	11.2	-0.258
8 N40 E25	107.51	15.8	-0.424
9 N40 E36	103.43	20.6	-0.586
10 N40 E35 SW corner	102.14	25.7	-0.782
11 N40 E40			
12 to N50 E5	315.27	7.24	0.046

Shooting large rocks & lines

1 Rock 40 cm	341.04	15.1	0.169
2 Rock 55 cm	330.23	42.1	0.401
3 Rock 70 cm	14.44	37.1	-0.352
4 Rock 60 cm	13.3	38.6	-0.581
5 Rock 50 cm	102.22	42.1	-0.987

Scale: 1 square = RA 1.55

3 July 2013 DIST ELEV

N 55 W 50 RH 2.33

65	186.18	35.666	1.586
66	188.51	40.500	1.595
67	196.54	34.328	1.514
68	205.06	35.377	1.434
69	209.22	39.407	1.551
70	205.24	40.928	1.901
71	205.17	45.409	1.919
72	205.06	49.488	2.028
73	207.10	52.423	2.087
74	209.37	56.383	2.126
75	210.05	53.338	2.154
76	209.49	48.746	2.637
77	214.44	46.191	1.604
78	218.01	48.796	2.159
79	218.01	46.022	2.141
80 53 CL NW	301.14	21.081	1.584
81 NE	303.04	20.274	1.582
82 SE	297.26	19.128	1.694
83 SW	296.67	19.934	1.701

Scale: 1 square =

19 July

change of station to π near

53 CA π on S40 W85

OP S40 W50 = back sight

setting on

I.H. 1323 RH 1.53 $\angle 90^\circ$ DIST 37 FLEV

37 -0.892

Shooting Pts on strg on OP 19.

to link 2013 work to 2000-2008 work

Pt		4	DIST	FLEV
1	53 CP NW 50x50	123.0	35.7	-0.340
2	NE	122.19	36.1	-0.338
3	53 CW NE corner	129.41	33.6	-0.189
4	53 W corner	131.10	33.2	-0.009
5	OP 53 CN FREDERICK	120.53	30.8	-1.025
6	FREDERICK	122.47	31.4	-0.938
7	"	123.14	31.2	-0.982
8	"	123.42	31.5	-0.933
9	"	123.08	32.1	-1.007
10	"	122.38	32.1	-0.906

shooting pts on OP 19 strg

11	strg 97 NW	28.36	48.4	2.952
12	" proportion	29.29	46.9	2.981
13	" NE	31.09	53.976	3.131
14	strg 406 NW RH	23.39	45.139	2.275
15	" NW	20.29	45.034	2.133

Scale: 1 square =

3 July 2013

On S50 W50

RH 1.52

I.H. 1.378

Setting E-W stakes for test pits

	\angle	DIST	FLEV
84 S50 W55	270	51.006	0.371
85 S50 W60			0.508
86 S50 W65			0.650
87 S50 W45	90°		-0.029
88 S50 W40			-0.087
89 S50 W35			-0.414
90 S50 W30			

On S45 W50 set to N

I.H. 1.435

RH 1.52

91 S50 W55		+0.307
92 S50 W60		-0.484
93 S50 W45		-0.145
94 S50 W40		-0.388
95 S50 W35		-0.502
		-0.496

Scale: 1 square =

19 July 2013

shooting WOODLAND vol
& associated features

PT	K		FLER
39 HIGH RIGGS	11.12	3.4	0.058
40 JOHNSTON	33.13	4.4	0.010
41 "	35.49	3.7	0.082
42 "	46.07	3.9	0.115
43 "	42.23	4.7	0.070
44 EXCAVATION	36.18	4.6	0.090
45	1.05	5.2	0.163
46	9.19	7.3	0.060
47	3.59	7.8	0.044
48	353.38	6.0	0.180
49	339.08	7.2	0.239
50	333.03	6.6	0.247
51	343.14	5.0	0.272
52	328.47	3.9	0.310
53	329.02	2.9	0.287
54	353.54	4.3	0.210
55	5.39	3.9	0.122
56	1.21	2.9	0.218
57	20.35	2.6	0.170
58	21.49	3.6	0.126
59	38.36	3.6	0.103
60			

Scale: 1 square =

30 July 2013

A 540 W50

set to 530 W50

IH 1.338

RH 1.52

96 540	W55	0.409
97	W60	0.636
98	W65	0.586
99	W70	0.696
100	W75	0.745
101	W45	-0.088
102	W40	-0.28
103	W35	-0.35
104	W30	-0.38

Scale: 1 square =

19 JULY 2013

Shooting OP 53 CD, WOODLAND & associated features

PT	E		ELEV
16 PILRIG	359.25	5.9	0.040
17 MUIRHOUSE	340.35	6.9	0.033
18 "	334.43	6.4	0.113
19 COLME line	340.54	5.7	0.057
20 "	340.29	6.8	0.068
21 CARBERRY rock	345.32	5.4	0.048
22 "	348.32	5.4	0.082
23 "	343.23	5.1	0.264
24 "	346.35	5.0	0.030
25 BRISTOL line	344.05	4.9	0.108
26 "	328.16	3.9	0.173
27 GRAMOND	347.13	4.1	0.045
28 "	339.42	3.6	0.100
29 SILVERTON line	339.54	3.4	0.129
30 "	326.35	4.0	0.179
31 COPSE rock	327.25	3.8	0.247
32 "	336.43	3.5	0.153
33 "	327.28	3.1	0.256
34 COMELY	20.05	3.5	0.076
35 "	4.01	3.5	0.216
36 "	9.04	4.8	0.129
37 "	22.02	4.5	-0.025
38 HIGH RIG line	20.02	2.5	0.150

Scale: 1 square =

4 July 2013

IH 12.93

RH 1.52

Setting up on Δ 530 E 0

Going to set a station near
2 excavations, for plan point
OP 53 CM and CC

setting angle on NO EO, 0° 0'

4 DIST ELEV
 Δ 530 E 0 to Δ Plan Points ①
 later RH 1.52 IH 12.93

Sta 419 (4/20/14)

Now: Shooting plan points
 from Δ 530 E 0 on OP

	54 CA	D	E
1 MUSEUM	288.56	23.87	0.482
2 MUSEUM	288.35	23.52	495
3 MODERN	288.12	23.98	495
4 MODERN	296.05	24.70	670
5 PORTRAIT	296.48	26.93	609
6 PEOPLE rock	294.19	25.46	808
7 PEOPLE rock	295.19	25.38	775
8 GALLERY	290.53	25.76	608
9 GALLERY	292.51	24.66	683
10 CHILD	297.46	25.70	571
11 CHILD	299.62	25.84	652

Scale: 1 square =

19 JULY 2013

on π 53 CM/CL

setting to S30 E0 @ 39°

TH 1.298 RH 1.53 DIST 36.389 ELEV

-1.035

checked against HUME in 53 CM

All fine

Doing OP53C0 WOODLAND & Friends

Pt	E	DIST	ELEV
1. BANKS rock	3.14	7.4	0.230
2 "	6.15	7.3	0.748
3 "	5.56	6.8	-0.005
4 "	2.38	7.0	0.044
5 BANKS curve	0.21	7.1	0.074
6 "	0.51	6.8	0.029
7 "	3.59	6.3	0.051
8 WOODLAND rock	351.00	5.7	0.089
9 "	0.42	5.1	0.029
10 "	350.0	4.9	0.013
11 FERRY rock	347.48	6.0	0.080
12 "	350.19	5.9	0.126
13 "	341.20	5.6	0.048
14 "	347.12	5.4	0.069
15 PILGRIM	352.31	6.0	0.235

Scale: 1 square = _____

4 July 2013 Plan Points OP54CM

Point	E	DIST	ELEV
12 CHILD	299.50	26.93	0.705
13 CHILD	300.19	26.54	0.664
14 CHILD	302.17	26.79	0.71
15 NATIONAL rock	300.39	27.18	0.95
16 NATIONAL rock	301.18	27.01	0.758
17 N	302.15	27.52	0.739
18 N	303.0	27.09	0.72
19 N	302.46	26.08	0.515
20 N	301.20	26.48	0.578
21 NATIONAL rock	304.39	26.87	0.45
22 NATIONAL rock	305.03	26.58	0.731
23 ACADEMY	306.26	24.00	0.475
24 ACADEMY	309.25	23.63	0.233
25 CITY in excav	310.26	23.62	0.278
26 CITY in EXCAL	---	---	---
27 CITY outside excav	---	---	---
28 CITY outside ex	316.47	23.37	0.249
29 TOWER	307.59	23.49	0.36
30 TOWER	307.12	22.85	0.562
31 SURGEON	299.21	24.22	0.501
32 DENTAL outside ex	306.18	26.80	0.448
33 DENTAL outside ex	304.40	27.56	0.592
34 DENTAL outside ex	307.42	28.19	0.503
35 DENTAL outside ex	306.37	29.01	0.543
36 Excavation	298.46	30.10	0.587

Scale: 1 square = _____

18 July 2013

6	EXCAL	262.58	30.0	29.56
7	"	266.36	29.8	3.228
8	"	266.26	28.8	3.159
9	Str New E	266.10	27.2	2.889
10	"	267.54	36.1	3.762
11	"	279.10	37.2	3.563
12	"	281.35	26.4	2.872
13	"	279.01	26.8	3.107
14	"	271.21	26.4	3.083
15	"	279.13	33.2	3.594

~~219.09.01~~

~~180~~

~~9.09.1 Backsight~~

16	Str New E	270.34	32.8	3.895
17	"	278.44	28.7	3.454
18	"	269.15	28.4	3.582

18 July 2013

OP 54 CA

Point	X	DIST	ELEV
37	300.21	29.55	0.577
38	298.02	27.84	1.620
39	301.08	26.8	6.08
40	302.29	27.56	6.37
41	305.46	26.55	4.48
42	304.55	25.56	4.43
43			
44			
45	302.34	23.67	4.52
46	299.38	22.17	3.53
47	292.32	24.44	6.20
48	286.18	22.75	4.43
49	284.55	23.6	5.01
50	292.52	23.94	6.65
51	291.33	27.7	7.25
52	294.22	29.01	6.29
53	296.68	28.55	5.89

K 219.09.01

① A 530 E 0° to Δ 53 CM / CC plan datum

~~K 219.09.01 DIST 3000 ELEV 1.78~~

② Δ 53 CM / CC

RH 1.52 IH 1.367

Actually using 39.05.33

Plan Points OP 53 CM

① 39.05.35 36.325 - 1.099

Scale: 1 square =

Scale: 1 square =

PT	E	DIST	ELEV
10 HAILE	230.48	29.4	0.978
11 "	230.59	30.5	1.149
12 "	232.47	30.4	1.354
13 "	233.13	29.6	1.337
14 EXCAVATION	230.29	29.6	0.915
15 EXCAVATION	228.37	29.3	0.807
16 "	227.57	30.4	0.825
17 "	226.17	30.2	0.815
18 "	225.53	31.3	0.860
19 "	227.22	31.5	0.867
20 "	226.21	34.4	0.925
21 "	227.32	34.7	
22			
OP 50 CA (S 72 45) (7/20/17)			
1 HERIOT	264.36	29.8	12.801
2 "	264.27	29.0	2.737
3 KEIR	264.09	29.0	2.821
4 "	262.52	29.3	2.714
5 EXCAV	262.43	29.1	2.862

Scale: 1 square = _____

2.862

4 July 2013 53cm S 72.370			
POINT	E	DIST	ELEV
2 BURKE	28.43	8.6	-0.60
3 BURKE	30.31	7.9	-0.019
4 BURKE	34.39	8.7	-0.067
5 ROCK CHAPEL	43.36	9.1	-0.120
6 LOCKE	44.58	10.0	-0.443
7 LOCKE	40.54	9.1	-0.378
8 HYDE	41.38	8.7	-0.128
9 HYDE	38.51	9.3	-0.260
10 JEFFYLL	38.55	9.4	-0.350
11 RUSKIN	38.49	9.7	-0.321
12 RUSKIN	37.00	9.1	-0.323
13 RUSKIN	31.22	9.5	-0.338
14 RUSKIN	32.18	10.0	-0.359
15 HUME	34.18	10.0	-0.360
16 HUME	39.24	11.0	-0.279
17 SMITH rock	37.48	11.4	0.005
18 SMITH line	35.33	11.3	-0.458
19 SMITH line	19.54	9.8	-0.012
20 ADAM ^{connects to Pt 15}	31.46	10.9	-0.282
21 HARE	28.39	8.7	-0.213
22 HARE	24.37	8.5	-0.324
23 HARE	20.02	8.6	-0.327
24 EXCAV	16.40	10.1	-0.135
25 EXCAV	22.49	7.2	-0.073
26 EXCAV	52.11	10.1	-0.037

Scale: 1 square = _____

PT	K	DIST	ELEV
8 YOUNG	211.41	42.0	—
9 "	212.39	42.4	1.071
10 EXCAVATION	213.10	41.8	1.348
11	211.53	41.4	1.350
12			
13	209.33	42.9	1.421
14	209.15	43.6	1.445
15			
16	209.90	44.6	1.469
17			
18	211.31	44.4	1.455
19	212.20	44.7	1.431
20	212.50	44.623	—
21	212.01	43.6	1.408
OP 54CR			
1 WESTER rock	227.27	34.2	0.0553
2 "	227.42	35.0	1.088
3 "	228.5.3	35.3	1.613
4 "	228.52	34.2	1.259
5 "	227.59	33.8	0.768
6 KINGSTABLE	228.38	33.1	0.820
7 "	228.02	32.6	0.422
8 "	228.57	32.0	0.599
9 "	228.15	31.7	0.422

Scale: 1 square = _____

4 July 2013 53CC plan STR-370			
	K	DIST	ELEV
27 EXCAV	48.06	10.8	-0.339
28 EX	43.41	10.3	-0.326
29 EX	37.15	11.9	-0.301
* 53CC Plan Points transcribed into another book, 0.6 meters converted			
* 53CC Plan Points IN FEET			
10 MILE	3	172.18'	22.21' +0.0801
2 MILE		177.10'	21.7' +0.5351
3 MILE		181.11'	22.1' +0.3801
4 MILE		184.32'	24.51' +0.5451
5 MILE rock		182.06'	25.6' +1.8601
6 OLD		171.06'	23.31' -0.0851
7 OLD		177.41'	25.51' -0.3251
8 REEKIE		173.46'	25.4' -0.1101
9 REEKIE		171.19'	26.1' -0.1151
10 CRESCENT rock		187.16'	19.7' +1.401
11 CRESCENT		187.53'	16.4' +0.7701
12 CRESCENT		188.25'	17.2' +0.4251
13 CRESCENT		197.56'	18.8' -0.0151
14 WALK		199.13'	18.2' +0.9251
15 WALK		198.14'	19.7' +1.0401
16 PLACE		192.01'	19.4' +0.9751
17 PLACE		191.48'	21.9' +1.0451
18 WALK back		203.25'	18.1' +1.0501
19 WALK back		203.05'	19.5' +1.0851
20 WALK rock		207.46'	17.5' +1.1851

Scale: 1 square = _____

18 July 2013

Shooting OP 54 CQ

PT	4	DIST	ELEV
10 COATES	94.28	5.9	0.011
11 "	94.38	4.8	-0.044
12 DUNEDIN	96.42	5.9	-0.022
13 "	90.57	6.5	-0.024
14 SEMPLE	69.18	6.0	-0.045
15 "	79.06	6.9	-0.069
16 "	78.55	5.7	-0.045
17 BARTON	92.24	7.5	-0.040
18 "	90.19	6.5	-0.013
19 "	83.01	6.5	-0.056
20 "	85.37	7.6	-0.108
21 EXCAVATION	87.47	8.2	+0.068
22 "	109.05	6.4	0.128
23 "	91.17	3.8	0.192
24 "	68.06	6.3	0.049

OP 54 CS

1 LONGSTONE	211.40	43.6	+1.110
2 "			
3 "	209.51	43.5	+1.108
4 "			
5 "	211.33	44.2	+1.275
6 YOUNG	212.11	43.2	+1.068
7 "			

Scale: 1 square = _____

45 July 2013

53CC Plan Pts

572368

IN FEET

21 WALK rock	208.57	19.0	+1.030
22 WALK rock	204.41	19.2	+1.340
23 TERRACE	211.43	20.0	+1.235
24 TERRACE	207.36	22.9	+1.460
25 STREET	212.47	24.6	+0.940
26 STREET	209.57	26.1	+0.940
27 GEORGIAN	211.12	29.4	+0.865
28 GEORGIAN	193.24	23.8	+1.555
29 GEORGIAN rock	202.13	25.4	+1.845
30 GEORGIAN rock	202.43	24.2	+2.430
31 LOWER	210.35	30.7	+0.95
32 LOWER	199.19	28.9	+1.390
33 ODEON	189.01	27.0	+1.380
34 ODEON	186.40	21.6	+0.490
35 ODEON rock	191.05	21.2	+0.690
36 TENEMENT	192.36	26.4	+0.535
37 TENEMENT	190.05	26.5	+0.780
38 TENEMENT rock	168.56	24.6	+1.245
39 ROYAL	174.51	31.6	+1.125
40 ROYAL	179.27	30.7	+0.995
41 HOLYROOD	180.32	46.2	-0.105
42 HOLYROOD	183.15	45	-0.150
43 TOLL	180.50	48.7	-1.070
44 TOLL	183.49	47.8	-1.350
45 KNOX surface	178.19	39.4	+1.745

Scale: 1 square = _____

38	1	12.02	15.1	-0.149
39				
40				
41	Excavation	12.02	15.1	-0.149
42		10.03	15.8	-0.112
43		7.58	15.3	-0.098
44		3.52	17.1	-0.153
45		9.51	18.2	-0.197
46		11.39	17.4	-
47		16.50	18.5	-0.236
48		18.59	17.8	-0.193
49		13.43	16.3	-0.134
50		20.39	14.7	-0.130
<hr/>				
0254	CQ	103.31	5.4	+0.083
1	GLEN PUNTY	103.37	5.4	+0.083
2	"	109.09	5.3	0.279
3	"	113.45	5.0	0.313
4	"	108.27	4.7	0.426
5	"	101.4	5.0	0.179
6	CLERMISTON	101.4	5.6	0.059
7	"	93.43	4.5	0.101
8	CUTHBERT	88.49	4.6	0.009
9	"	78.26	5.8	-0.007

Scale: 1 square = _____

4 July 2013 Plan Points OPS3CC

Shot from 53 CM/CC Plan Datum

[IN FEET]

46	KNOX Surface	182.45	38.8	+1.830
47	boulder COVENANT	195.52	29.7	+1.855
48	boulder COVENANT	193.43	31.5	+1.660
49	boulder COVENANT	195.57	33.3	+1.915
50	COVENANT BIG	209.42	35.4	+1.600
51	COVENANT BIG	209.13	34.2	+1.550
52	COVENANT BIG	211.14	32.3	+1.395
53	COVENANT BIG	213.49	32.5	+1.210
54	Excavation	162.11	6.9	+0.259
55	"	181.04	5.7	+0.276
56	"	179.15	4.8	+0.284
57	"	215.22	5.3	+0.328
58	"	211.48	6.2	+0.388
59	"	220.13	6.7	+0.392
60	"	209.45	10.4	+
61	"	186.20	9.8	+0.494
62	"	184.05	7.8	+0.356
63	"	178.16	8.1	+0.361
64	"	185.16	16.0	-0.233
65	"	181.45	16.1	-0.257
<hr/>				
66	MOSSY rock	220.03	20.9	+1.986
67	MOSSY rock	225.14	21.4	+1.555
68	BANK out of area	209.60	38.6	+1.485
69	BANK al of area	205.55	35.9	+2.010
70	BANK out of area	202.44	36.4	+2.305
71	BANK rock	202.57	31.8	+2.590
72	MOSSY #2	201.45	16.2	+2.305

[IN FEET]

Scale: 1 square = _____

18 July

18 SAUGHTON	10.03	17.1	-0.392
19 "	11.50	17.1	-0.299
20 "	12.27	16.7	-0.399
21 "	11.56	16.3	-0.379
22 "			
23 COWGATE upper	9.48	17.1	-0.396
24 "	10.53	17.3	-0.443
25 "	19.30	17.7	-0.266
26 "	7.55		
27 "	7.40	17.4	-0.348
28 COWGATE #2	7.54	16.8	-0.267
29 COWGATE #3	8.23	18.0	-0.217
30 "	9.31	18.0	-0.422
31 GORHAM	7.40	16.6	-0.329
32 "	12.08	15.7	-0.411
33 "	11.50	15.6	-0.407
34 EXCAVATION	20.40	14.6	-0.135
35 "	18.47	13.9	-0.081
36 "	14.54	14.5	-0.077
37 "	5.22	11.8	-0.005
38 "	359.26	13.3	-0.019
39 "	6.15	15.0	-0.060
2740 "	9.17	14.5	-0.760

Scale: 1 square =

9 July 2013

(5m. 8m 5m. 4m) (10/24/14)

Plan Points: Str 379 & New Str B.

PH 1.314

RH 1520

Setting to ~~WEST~~ WEST 270°

Δ N 10 E 36

Shooting to N 10 E 15

ELEV 70.638

Dist to N 10 E 15 13.37 Living w/ that

Pt

←

DIST

ELEV

1 Highrock	279.34	8.0	+0.28
2 "	277.55	7.8	6.31
3 "	274.03	8.0	0.22
4 "	274.06	8.3	0.32
5 "	279.56	8.2	0.15
6 High Line (D-66)	279.56	9.8	0.20
7 LEONARDS 1 st	281.29	9.8	0.25
8 "	282.03	10.0	0.26
9 "	281.22	10.3	0.24
10 "	279.52	10.4	0.32
11 "	279.11	10.0	0.15
12 LEONARDS 2 nd	282.39	10.0	0.47
13 "	284.40	10.3	0.48
14 "	283.55	10.6	0.42
15 "	281.37	10.3	0.23
16 LEONARDS 3 rd	285.52	10.4	0.52
17 "	282.43	10.7	0.53
18 "	286.49	11.0	0.55

Scale: 1 square =

18 JULY

Plan Points OPs 54 CP and CD

A N 50 E 15 [N 50 E 5] [N 50 W 10]

Shooting W to N 50 W 10 270°

IH 1.30 RH 153 DIST 10.155

ELEV 0.467

PT	L		ELEV
OP 54 CP	14.30	15.28	-0.418
1 LOTHIAN	16.19	15.3	-0.509
2 "	14.99	14.8	-0.319
3 "	12.09	15.2	-0.387
4 "			
5 BELGRAM	14.31	14.7	-0.304
6 "	12.18	15.1	-0.177
7 "	11.38	15.2	-0.103
8 ATHOLL	11.15	13.5	-0.241
9 "	9.27	14.1	-0.175
10 SPITAL	6.17	13.2	-0.132
11 "	6.13	12.7	-0.110
12 "	4.99	12.4	-0.147
13 "	4.03	13.2	-0.021
14 Bow	3.19	12.5	-0.090
15 "	359.44	13.3	-0.053
OP 54 CD			
16 GORGIE	13.42	17.5	-0.437
17 GORGIE	14.49	16.8	-0.457

Scale: 1 square =

9 JULY

Plan Points Str New B

411 (4/20/14)

19 LEONARDS 3 rd	285.01	10.8	6.56
20 LEONARDS 4 th	290.06	10.8	0.03
21 "	291.12	10.9	0.09
22 "	291.32	11.4	0.04
23 "	290.16	11.5	0.01
24 "	287.18	11.4	0.10
25 LEONARDS 5 th	292.12	11.4	0.25
26 "	294.08	11.8	6.28
27 "	290.43	11.8	0.30
28 OXGANG 1 st	286.05	10.2	0.35
29 "	289.40	10.0	0.28
30 "	290.16	10.5	0.3
31 "	287.05	10.5	0.48
32 OXGANG 2 nd	282.34	9.7	0.41
33 "	284.04	9.5	6.43
34 "	286.51	9.9	0.30
35 "	286.01	10.10	0.39
36 disappears	281.55	10.20	0.31
37 BELLO	288.53	10.1	6.12
38 "	295.49	8.3	-0.02
39 PORTO rock	293.13	8.4	-0.18
40 "	290.50	8.2	-0.15
41 "	291.28	8.6	0.13
42 MARCHMONT 3 rd bay	286.16	8.2	0.1

Scale: 1 square =

12 July 2013 S 72 413 (4/20/14)

PLAN EXCAVATION POINTS

45 DP 53 CN	123.15 125.32	32.8 31.5	-0.282 -0.413
46 EXCAVATION	129.03	30.2	-0.217
67	126.55	28.6	-0.212
68	122.18	30.6	-0.324
69	120.56	29.9	-0.311
70	119.29	30.6	-0.308

Scale: 1 square = _____

9 July 2013

Plan Points Str New B (S 72 411)

PT	E	Dist	ELEV
43 BUCHANAN	290.15	8.2	0.11
44 "	286.54	8.3	0.08
45 MARCHMONT HGN	279.54	8.3	6.20
46 SAINT 1ST	274.41	10.1	0.90
47 "	277.32	10.4	0.90
48 "	275.31	10.6	0.42
49 "	274.30	10.3	0.43
50 SAINT 2nd	277.0	10.6	0.42
51 "	278.12	10.4	0.39
52 "	281.49	10.6	0.52
53 "	282.06	10.9	0.50
54 "	280.36	11.0	0.52
55 "	277.46	10.9	0.52
56 SAINT 3rd	281.44	10.9	0.68
57 "	282.55	11.1	0.65
58 "	281.30	11.5	0.62
59 "	280.15	11.2	0.59
60 UNDERFETTES	279.52	11.3	0.21
61 "	281.42	12.5	0.33
62 TORPECHEN	282.14	12.5	0.47
63 "	283.11	12.9	0.57
64 "	284.06	12.8	0.54
65 BROUGHTON	286.27	14.2	0.54
66 "	286.07	13.7	0.49
67 "	283.50	14.0	0.57

Scale: 1 square = _____

12 July 2013

PLAN & EXCAVATION POINTS

PT	4	DIST	ELEV
42 SEAFIELD	124.59	30.1	-0.429
43 MATERIALS	126.39	30.1	-0.356
44 "	125.25	30.1	-0.390
45 "	124.35	29.7	-0.435
46 "	124.0	29.5	-0.429
47 "	126.26	29.6	-0.375
48 QUARTZ	125.43	30.0	-0.314
49 KNOWE	127.15	29.8	-0.345
50 "	127.50	29.6	-0.392
51 MATERIAL "L" Simple	127.19	30.5	-0.404
52 "	126.14	30.4	-0.450
53 "	126.14	31.1	-0.468
54 MATERIAL	122.38	30.7	-0.403
55 MATERIAL	123.28	30.8	-0.371
56 HORND	124.28	30.754	-0.286
57 HORND	124.26	30.6	-0.332
58 HORND	127.12	30.8	-0.232
59 HORND	126.06	30.7	-0.255
60 HORND	125.53	31.3	-0.310
61 CRAIGLOCKHART line	125.21	31.2	-0.423
62 " Material	125.29	31.2	-0.422
63 " Material	124.56	31.1	-0.343
64 " Material	125.28	31.4	-0.299

Scale: 1 square = _____

9 July 2013

Plan POINTS Str New B

18 FETTES	284.43	12.2	+0.70
69 "	285.41	11.4	0.44
70 "	284.17	11.1	0.65
71 "	283.12	11.1	0.59
72 "	281.12	11.7	0.72
73 "	282.04	12.3	0.68
74 UNDER FETTES NORTH	286.48	12.0	0.21
75 "	287.54	12.1	0.13
76 "	289.15	11.9	0.11
77 "	289.24	11.7	0.06
78 "	286.45	11.4	0.14
79 EXCAVATION	298.28	12.4	0.35
80 "	299.53	11.4	0.37
81 "	295.44	11.6	0.41
82 "	300.44	8.3	0.39
83 "	280.49	7.8	0.34
84 "	281.46	6.9	0.28
85 "	273.66	6.8	0.30
86 "	273.57	12.9	0.58
87 "	282.52	13.1	0.55
88 "	283.15	12.3	0.55
89 "	284.56	12.4	0.46
90 "	284.37	13.7	0.50
91 "	288.10	14.0	0.50

Scale: 1 square = _____

2 JULY PLAN POINTS 53CA str 373			
PT	E	DIST	ELEV
18 EXCAVATION 53CA	209.30	15.2	0.400
19	213.21	13.5	0.387
20	210.06	12.9	0.348
21	210.22	12.0	0.310
22	202.30	11.1	0.455
23	204.43	9.1	0.439
24	199.24	8.8	0.427
25	194.41	13.9	0.558
26	185.01	12.7	0.378
27	185.09	13.6	0.438
28	189.07	13.7	0.440
29	190.33	10.7	0.341
30	179.19	10.6	0.307
31	180.31	12.7	0.361
32 EXCAVATION OP53CI	175.42	12.7	0.209
33	175.14	11.8	0.295
34	165.45	12.2	0.248
35	167.18	13.2	0.243
36	159.12	13.8	0.222
37	157.39	12.9	0.195
38	149.35	13.9	0.159
39	152.24	14.8	0.154
40 OP53CN SEAFIELD	125.22	30.4	-0.280
41	124.59	30.4	-0.268

Scale: 1 square = _____

9 July Plan POINTS str New B			
PT	E	DIST	ELEV
92 EXCAVATION	290.52	12.00	0.44
93	"	"	"
93 to Main N stake, that is			(+1.24)
ON OF	250.45.25	31.71	(+1.24)
94 WOODLAND rock w			
94	"	"	220.21 82.60 +2.99
95	"	E	219.37 82.37 +2.93
96 ANGEL W	19.04	46.28	-1.08
97	"	E	19.45 46.63 -1.22
July 2013 — MOVED TO Page 10 July			
CHANGE OF STATION			
to one closer to str New C			
91° 23' 35" SD 46.60 ELEV -1.132			
@ new station:			
IH 1.372 RH 1.53			
back sight 271° cont input minutes			
and seconds			
DIST 46.725			
ALL This is an error, corrected			
on 11 July 2013			

Scale: 1 square = _____

12 July 2013

New station, near 53 CA, str 373
to shoot plan points

Setting up on an E-W test
pit line NORTH of the structures
TS 40 W 85 shooting to S40 W 50
IH 1364 RH 1.50
E 90° DIST 37.465 ELEV -0.864
37.465 -0.864

	E	DIST	ELEV
1 PLUMED	210.43	14.3	0.090
2 "	206.45	13.9	0.051
3 HILL	205.43	14.7	0.510
4 "	209.16	12.3	0.246
5 CALTON	199.53	13.9	0.438
6 "	201.58	12.2	0.300
7 ELEPHANT	201.31	14.1	0.316
8 "	195.33	13.6	0.379
9 WAVERLEY	197.31	13.6	0.156
10 "	196.54	13.5	0.126
11 ARTHOUSE	186.14	12.8	-0.065
12 "	186.47	11.8	-0.036
13 "	188.36	12.0	-0.093
14 RAVELSTON	152.29	15.2	0.149
15 "	151.18	14.5	0.121
16 "	148.16	14.5	0.148
17 "	149.37	15.1	0.163

Scale: 1 square = _____

10 July 2013

Plan Points on str 379

Set up on stake N10 E 30

shooting to N10 E 15 15.4

I H 1.40 RH 1.53 0.556

	E	DIST	ELEV
1 BILLIE	173.46	7.9	0.262
2 BILLIE-STINKING	176.57	8.6	0.196
3 STINKING	202.46	8.2	0.411
4 CUMBERLAND	189.40	9.3	0.156
5 "	192.16	9.9	0.165
6 "	196.34	9.6	0.207
7 TRAM	197.54	10.6	0.249
8 "	197.08	9.5	0.312
9 "	206.02	8.6	0.330
10 "	200.11	10.5	0.221
11 "	201.01	10.0	0.283
12 "	203.46	8.7	0.296
13 HANOVER	206.03	9.6/9.5	0.292
14 HANOVER/SQUARE	204.07	9.6	0.359
15 SQUARE	204.49	8.8	0.326
16 ANNE rock	209.42	8.8	0.555
17 "	210.32	8.3	0.615
18 CHARLOTTE	210.46	8.0	0.521
19 "	214.52	6.9	0.672
20 "	225.25	7.6	0.744
21 "	217.57	8.8	0.699

Scale: 1 square = _____

10 JULY 2013

PLAN Points New Str C

PT	K	DIST	ELEV
100 EXCAV OP 54 CT	171.57	3.3	0.057
101 "	148.34	7.6	0.031
102 "	173.04	9.7	0.322
103 "	174.59	9.3	0.292

@ N10 E30

setting to West on stake N10 E15

IH 1.31 RH 1.53

K 270

DIST ^{15.414} 15.414 ELEV 0.658

@ A N10 E30

shooting to Datum @ New Str C

K 8.24.54 DIST 46.708 EL -1.036

10 July 2013

Plan Points on Str 379

	K	DIST	ELEV
22 P CHARLIE	216.15	6.5	0.584
23 "	220.58	5.7	0.468
24 "	209.53	5.1	0.475
25 "	205.48	6.0	0.516
26 TARTAN	213.05	3.7	0.364
27 "	172.36	3.8	0.310
28 "	175.18	2.9	0.294
29 "	206.59	3.0	0.330
30 OSSIAN	209.20	5.0	0.485
31 "	181.35	4.5	0.476
32 "	180.22	5.1	0.372
33 "	204.03	5.5	0.565
34 COAT rock	196.59	7.4	0.673
35 KILT rock	196.58	8.0	0.476
36 GYLE	203.57	7.4	0.520
37 "	208.35	7.7	0.458
38 FORTH	256.33	9.6	0.239
39 FORTH	256.34	10.4	0.259
40 FIRTH	254.30	9.6	0.508
41 "	254.32	10.4	0.479
42 WATER	240.53	10.1	0.603
43 "	242.45	10.8	0.659
44 LEITH	242.07	10.6	0.821

54
CF

Scale: 1 square = _____

Scale: 1 square = _____

11 JULY 2013

PLAN POINTS New str C-54 CF * CJ

76 EXCAV ^{OP} 54 CM	185.37	13.5	+0.077
77 " " "	188.37	12.7	+0.100
78 " " "	192.0	13.6	0.101
79 EXCAV ^{OP} 54 CG	191.04	12.1	0.114
80 " "	195.06	11.5	0.159
81 " "	192.42	10.6	0.081
82 " "	213.38	8.8	0.253
* 83 MARKS rock	210.16	8.9	0.064 *
84 EXCAV ^{OP} 54 CG	213.07	8.0	0.291
85 EXCAV ^{OP} 54 CJ	222.28	7.7	0.296
86 " "	226.53	12.7	0.170
87 " "	231.46	12.6	0.232
88 " "	231.15	5.7	0.385
89 EXCAV ^{OP} 54 CL	266.15	7.2	0.428
90 " "	262.03	8.1	0.458
91 " "	290.57	14.3	0.681
92 " "	299.35	13.4	0.626
93 " "	248.00	5.0	0.341
94 EXCAV ^{OP} 54 CF	262.18	3.2	0.194
95 " "	246.04	2.6	0.150
96 " 1.50m from PT 95			
97 " " "	216.14	1.5	0.061
98 " " "	221.0	3.4	0.177
99 EXCAV ^{OP} 54 CI	190.19	4.43	0.139

Scale: 1 square = _____

10 JULY 2013

PLAN POINTS STR 379

		DIST	ELEV
45 LEATH	?	<u>233.35</u>	10.6 0.821
46 " "		235.02	12.4 0.929
47 " "		242.30	11.5 0.801
48 DARULEY rock		224.04	11.2 0.617
49 " "		223.22	11.9 0.565
50 PRINCE		226.02	11.4 0.567
51 " "		228.54	12.6 0.483
52 TUDOR rock		228.10	12.3 0.533
53 " "		229.25	12.0 0.674
54 WALTER		223.55 223.55	12.9 0.322
55 " "		221.13	12.0 0.390
54 CD 56 KIRK		255.07	16.8 0.544
57 " "		253.36	17.7 2.509
58 TRON		250.55	17.4 0.499
59 " "		251.52	16.8 0.454
60 TATOO		251.26	15.3 0.985
61 " "		249.38	15.8 0.432
62 " "		246.02	15.2 0.446
63 HESSIANS		248.39	16.6 0.500
64 " "		246.38	15.4 0.563
65 SCOTT		243.48	15.4 0.791
66 " "		245.03	15.3 0.773
67 " "		244.49	17.0 0.770
68 EXCAVATION		242.29	16.9 0.836

Scale: 1 square = _____

New str C

11 JULY 2013				PLAN PTS 54CEP C5			
PT				DIST	ELEV		
52 WANNA		231.28	11.4	-0.188			
53	"	224.27	11.5	-0.095			
54 MURRAYFIELD		238.17	7.3	-0.408			
55 CORSTOPHINE		255.13	5.5	0.325			
56	"	259.0	6.8	0.243			
57	"	267.16	7.3	0.417			
58 FIGGET		288.45	6.6	0.290			
59	"	271.25	6.3	0.267			
60 CARRICK		278.08	7.4	0.294			
61	"	282.53	8.1	0.392			
62 WARRISTON		281.02	7.6	0.327			
63	"	275.43	8.9	0.385			
64 BRAIDS		283.30	9.5	0.472			
65	"	287.0	9.7	0.335			
66	"	280.47	10.8	0.465			
67	"	283.21	11.2	0.510			
68 GRAIGSMILLER		282.57	11.4	0.498			
69	"	293.24	10.9	0.370			
70 ARTIFACTS		290.52	12.8	0.600			
71 GRAIGENTIMY		190.66	13.8	0.062			
72	"	192.42	13.9	0.119			
73	"	192.55	14.6	0.081			
74	"	190.17	14.5	0.072			
75 EXCAVATION		188.41	14.2	0.074			

Scale: 1 square = _____

10 JULY 2013

PLAN POINTS str 379							
				DIST	ELEV		
69 EXCAVATION		258.16	18.5	0.664			
70		259.51	17.4	0.609			
71		254.02	16.6	0.547			
72		255.09	15.8	0.493			
73		244.09	14.7	0.752			
74		265.45	16.5	0.334			
75		265.48	9.5	0.251			
76		218.11	12.5	0.505			
77		221.17	13.3	0.560			
78		265.19	11.0	0.475			
79		217.13	6.4	0.525			
80		176.48	5.6	0.337			
81		179.33	7.6	0.348			
82		166.14	8.9	0.278			
83		169.14	9.3	0.275			
84		174.40	8.9	0.335			
85		177.06	9.8	0.345			
86		188.25	9.6	0.397			
87		188.52	10.5	0.384			
88 NAPIER		183.26	5.5	0.342			
89		186.59	6.5	0.40			
90		192.12	6.5	0.424			
91		195.15	5.6	0.495			
92		197.38	5.7	0.480			

DALRYM
runs to (37)

Scale: 1 square = _____

11 JULY 2013

PLAN POINTS	54 CE + CJ	New Str C	
	14	1 DIST	1 ELEV
29. GREY rock	227.45	5.6	0.498
30. "	225.46	5.8	0.512
31. "	222.47	5.7	0.392
32. FRIARS	230.07	5.3	0.293
33. "	231.44	5.3	0.355
34. "	230.13	5.6	0.332
35. BOBBIE	237.03	5.2	0.201
36. "	240.09	5.4	0.159
37. "	239.17	5.6	0.342
38. "	235.35	5.7	0.390
39. WHISKY rock	229.04	8.0	0.395
40. "	227.07	7.6	0.023
41. "	228.44	7.1	0.150
42. "	232.47	7.3	0.379
43. "	231.21	7.7	0.383
44. "	231.22	7.9	0.337
45. HERITAGE	226.35	7.6	0.044
46. "	223.38	7.6	0.090
47. "	223.14	7.0	0.043
48. BRIDGE	230.22	7.0	0.191
49. "	215.04	7.0	0.165
50. BURGER	230.52	10.5	-0.060
51. "	227.03	10.6	-0.027

Scale: 1 square = _____

9 July 2013

Plan Pointst OP 54 CE, CE, (D)

54	93 STEIN HOUSE	rock #1	221.40	9.6	0.932	
CE	94	"	" #2	227.50	10.6	0.915
ad	95	"	" #3	231.13	10.4	0.879
OK	100	"				

CHANGE OF STATION

to one @ Str New C

A N1 E30 → A New C

± 271 DIST 46.725

ELEV 1.414

Str New C

PT	E	DIST	ELEV
1 GRASS	177.21	13.9	-0.
2 "	170.31	13.1	-0.170
3 "	171.05	12.8	-0.245
4 MALL road	168.45	13.5	-0.189
5 "	169.27	13.4	-0.257
6 "	168.29	12.9	-0.248
7 "	167.02	13.2	-0.127
8 "	167.20	13.3	-0.081
9 DRUMBRAE	166.39	12.2	+0.41
10 "	165.10	12.6	-0.103
11 HAY	164.49	13.0	+0.285

Scale: 1 square = _____

11 JULY 2013

PLAN POINTS 54 CF and CJ

on T New Str C

	K	DIST	ELEV
7 GARDEN	224.52	2.3	-0.242
8 "	243.34	2.4	-0.158
9 GARDEN rock	221.45	2.0	-0.121
10 "	222.01	2.3	-0.258
11 VILLAGE	221.38	2.8	0.014
12 "	252.59	3.1	0.009
13 DEAN rock black	231.33	2.9	-0.43
14 "	233.52	3.3	-0.060
15 "	226.24	3.4	-0.050
16 BOTANIC rock	219.18	3.6	-0.037
17 "	226.49	4.0	0.068
18 "	220.24	4.0	0.163
19 BOOTH	225.35	4.4	0.171
20 "	221.46	4.6	0.292
21 "	219.29	4.5	0.158
22 "	222.24	4.2	0.198
23 ARTHUR	226.15	4.1	0.085
24 "	238.23	4.3	0.110
25 SEAT	235.34	4.2	0.043
26 "	250.13	3.5	0.270
27 GREY rock	223.24	5.2	0.478
28 "	227.04	5.2	0.438

Scale: 1 square = _____

	A	DIST	ELEV
12 HAY	162.46	11.5	0.342
13 LAWN	163.19	11.0	0.298
14 FARMERS (on rock)	155.19	16.5	0.168
15 ^{END FARMERS} FARMERS rock	156.41	11.1	0.115
16 "	157.31	10.6	0.681
17 MARKET	160.47	12.4	0.273
18 "	157.48	14.1	0.137
19 FLESH	153.59	13.7	-0.058
20 "	156.07	12.0	-0.081
21 KINGSKNOVE	154.31	16.4	-0.027
22 " not end	148.53	14.1	-0.036
23 SIGHT HILL	150.31	15.4	-0.179
24 "	154.35	15.6	-0.013
25 TELFORD rock	_____	_____	_____
26 "	_____	_____	_____
27 "	149.52	15.9	-0.152
28 BABERTON	152.40	16.0	-0.027
29 "	152.32	16.8	-0.020
30 REDHALL	155.16	16.9	-0.078
31 GRANTON (MORTON HALL)	152.28	17.6	-0.155
32 " not end	OK 149.45	17.4	-0.258
33 MORTON HALL	157.10	17.7	-0.190
34 BRAID BURN	153.26	17.7	-0.54

Scale: 1 square = _____

11 July 2013
 PLAN PTS Str New C
 FH 1.379 R 1.53 491

on New Str C datum

shooting to N10 E 30

In error on 10 July when shooting to this station. Checking using various angles.

491 DIST 46.671 ELEV 1.383

Error in angle of 180° . Setting A New Str C to 270° to make the New Str C points internally consistent. Then will set up on N10 E30 & shoot A New Str C to get the correct \angle for A New Str C

PT	E	DIST	ELEV
1 LOCHERN	179.56	5.6	+0.133
2 LOCHERN	191.16	4.9	+0.150
3 INVERLEITH	166.06	6.8	+0.022
4 "	171.08	5.9	+0.021
5 DILTON	202.55	4.8	+0.291
6 "	219.47	4.6	+0.245

NEXT PAGE

Scale: 1 square = _____

10 July 2013
 PLAN POINTS Str New C

	E	DIST	ELEV
35 BRAID BURN	153.19	18.2	+0.392
36 STOCKBRIDGE	167.20	9.4	+0.390
37 "	177.16	10.3	+0.319
38 "	171.16	11.7	+0.289
39 "	162.36	10.7	+0.320
40 EXCAVATION	179.18	13.8	+0.026
41 "	163.30	11.7	+0.261
42 "	164.34	10.8	+0.221
43 "	153.19	10.3	+0.079
44 "	150.10	13.6	-0.054
45 "	150.31	17.9	-0.186
46 "	150.50	18.9	-0.188
47 "	156.52	19.0	+0.122
48 "	159.15	16.2	+0.016
49 "	155.56	15.9	+0.010
50	160.38	13.0	+0.135
51	176.15	14.7	+0.044
52 EXPRESS rock	191.09	11.5	-0.166
53 PIZZA rock	188.24	10.9	-0.032
54 CAPE rock	185.18	10.6	+0.149
55 "	184.08	10.1	+0.090
56 VERO rock	188.33	9.9	+0.341
57 ONDINE	184.28	9.7	+0.335

Scale: 1 square = _____

121 LADY	171.28	5.1	-6.187
125 LADY/WITCHERY front	178.48	5.9	+0.001
129 WITCHERY back			
130 LAURISTON + WITCHERY front	173.18	7.5	+0.284
131 WITCHERY back	182.04	6.2	+0.323
132 WITCHERY back			
133 BRODIE rock	184.57	5.5	+0.456
134 "	188.44	5.9	+0.204
135 "	185.39	6.1	+0.351
136 "	181.0	3.8	+0.502
137 "	182.36	5.9	+0.541
138 DEACON rock	176.18	7.8	+0.250
139 MERCHISTON + French	180.47	3.8	-0.115
140 EXCAVATION			

Scale: 1 square = _____

10 July 2013				
PLAN POINTS Str New C.				
Pt	E	DIST	BLU	
58 ONDINE	182.38	9.2	+0.188	
59 ANGELS	182.43	8.7	+0.390	
60 "	185.51	9.2	+0.280	
61 "	187.14	9.1	+0.326	
62 "	187.01	8.5	+0.437	
63 BAGPIPES	186.13	10.4	-0.112	
64 "	184.42	10.2	-0.123	
65 "	190.20	10.0	-0.091	
66 "	191.10	9.6	-0.023	
67 "	191.56	9.5	+0.024	
68 " + COSTA	193.21	9.2	+0.074	
69 COSTA	189.03	8.3	+0.354	
70 "	196.59	8.7	+0.185	
71 "	191.44	7.9	+0.320	
72 ROSEBURN	189.24	8.1	+0.338	
73 ALBERT rock	193.04	10.8	-0.040	
74 ALBERT rock	193.04	10.3	-0.030	
75 SPENCER rock	196.56	9.9	+0.079	
76 "	196.58	9.6	-0.001	
77 "	198.48	9.7	+0.008	
78 SQUIRREL	201.0	9.5	+0.048	
79 "	198.54	8.8	+0.014	
80 SQUIRREL	206.17	8.1	+0.021	

BRASSERIE

Scale: 1 square = _____

10 July 2013

PLAN POINTS Str New C

PT				
104	CENTRE rock	212.09	5.3	0.555
105	"	213.02	5.7	0.482
106	"	216.37	5.53	0.353
107	"	216.52	5.22	0.248
108	"	214.33	5.1	0.286
109	VIEWINGTON south	174.49	9.2	0.393
110	BRUNTSFIELD #1	156.55	8.0	-0.495
111	"	159.17	8.1	-0.423
112	BRUNTSFIELD #2	158.39	7.8	-0.637
113	"	161.45	8.1	-0.633
114	"	160.38	7.8	-0.662
115	CRILLERS	161.14	8.3	-0.334
116	CRILLERS ONE	164.39	7.6	-0.424
117	ONE	156.57	7.1	-0.434
118	WISHART rock	159.37	7.2	-0.138
119	"	157.15	6.9	-0.132
120	"	160.46	6.5	-0.259
121	KITCHEN	167.134	5.4	-0.259
122	MARTIN rock	169.07	5.4	-0.129
123	"	165.52	5.3	-0.332
124	"	166.0	4.9	-0.373
125	"	169.26	4.7	-0.389
126	"	171.65	4.9	-0.234

Scale: 1 square =

345.32

164

179

10 July 2013

PLAN POINTS Str New C

PT			DIST	ELEV
81	MARKS rock	201.21	8.8	+0.076
82	RUSSIAN	209.47	8.3	+0.004
83	"	207.51	8.1	+0.099
84	"	208.32	7.6	+0.084
85	"	211.16	8.0	-0.026
86	PASSION	204.7 210.02	7.2	+0.207
87	"	206.03	7.2	+0.182
88	"	204.13	7.1	+0.291
89	"	203.51	6.6	+0.263
90	# PASSION	207.03	6.3	+0.343
91	PIES	202.54	6.7	+0.307
92	"	192.41	7.8	+0.318
93	?			
94	KHYBER rock	213.24	7.4	+0.458
95	"	211.28	7.1	+0.563
96	"	213.10	6.8	+0.566
97	"	214.12	6.8	+0.292
98	"	214.38	7.0	+0.390
99	GRAINERY end	197.16	4.7	6.408
100	GRAINERY rock	204.04	5.2	0.274
101	"	211.51	5.3	0.397
102	"	211.48	5.7	0.426
103	"	204.12	5.5	0.252

Scale: 1 square =

104

14.31

355.25

AS

53 CN

570 413

54 CA

570 414

50 CA

" 415

Scale: 1 square = _____