GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

(*For Survey use only*)

6-inch Map Registered No. TQ28SE/5

Name of Shaft or Bore given by Geological Survey:

Name and Number given by owner: Whitakers brewery Hampstead road.

Nat. Grid Reference 28850 84138

For whom made

Town or Village St. Pancras. County London

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made Water.

1" N.S.Map No.	1" O.S.Map No.	Confidential or not
256		

Ground Level at shaft bore relative to O.D. If not ground level give O.D. of beginning of shaft bore

Made by Date of sinking

Information from Date received

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(*For Survey use only*) Geological Classification	DESCRIPTION OF STRATA	Thickness Ft.	Thickness In.	Depth Ft.	Depth In.
				300	91·44m

London memoir II, p.88 in full.

CAMDEN TOWN. Whitaker and Co.'s Brewery (late Chance's) by the canal and Hampstead Road.

MYLNE's, "*Sections of the London Strata.*"

(45,72)

	Thickness.	Depth
London Clay - -	(42,67) 140	140 (42,67)
Reading Beds and Thanet Sand	(21,34) 70	210 (64,01)
Chalk - - -	(27,43) 90	300 (91,44)
	(85,95)	

SIR H. BESSEMER told me that the depth was 282 feet, and that at a depth of about 150 feet there was a thick bed of marine shells, with wood (much pyritized) and shark's teeth. This must be the basement-bed of the London Clay.

(5412) Wt.32837/PS.154 2m 10/64 G.W.B.Ltd. Gp.863

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

(*For Survey use only*)

6-inch Map Registered No. TQ28SE/26

Name of Shaft or Bore given by Geological Survey:

Name and Number given by owner:

For whom made

Town or Village St. Pancras County London.

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

Purpose for which made Trial

Nat. Grid Reference 28762.84063

1" N.S.Map No.	1" O.S.Map No.	Confidential or not
256		

Ground Level at shaft / bore relative to O.D. If not ground level give O.D. of beginning of shaft / bore

Made by Date of sinking

Information from Date received

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(*For Survey use only*) Geological Classification	DESCRIPTION OF STRATA	Thickness Ft.	Thickness In.	Depth Ft.	Depth In.
	London Atlas London sheet			45	
	13.72m				
	nV NW.				
	GRAVELLY CLAY	10	6	10	6
	LONDON CLAY.	34	6	45	0

(5412) Wt.32837/PS.154 2m 10/64 G.W.B.Ltd. Gp.863

GEOLOGICAL SURVEY OF GREAT BRITAIN

RECORD OF SHAFT OR BORE FOR MINERALS

(For Survey use only)

6-inch Map Registered No.

TQ28SE/27

Name of Shaft or Bore given by Geological Survey:

Name and Number given by owner:

Nat. Grid Reference

28920·83904

For whom made

Town or Village St. Pancras County London

Exact site

Attach a tracing from a map, or a sketch-map, if possible.

1" N.S.Map No.	1" O.S.Map No.	Confidential or not
256		

Purpose for which made Trial

Ground Level at shaft / bore relative to O.D. If not ground level give O.D. of beginning of shaft / bore

Made by Date of sinking

Information from Date received

Examined by

SPECIMEN NUMBERS AND ADDITIONAL NOTES

(For Survey use only) Geological Classification	Description of Strata	Thickness Ft.	Thickness In.	Depth Ft.	Depth In.
	London atlas London Sheet TQNW.			40	12·19m

(54121) Wt.32837/PS.154 2m 10/64 G.W.B.Ltd. Gp.863

C 13

WELL BORING at Camden Town Tube Station. County London

Geol. map 1 in. map New Series 6 in. map 7 N.W. TQ/28SE/27

Made by TQ 28 SE Date 1900. 28928390

Sunk feet. Bored feet. 256

Communicated by L.C.C.

Height above Ordnance Datum 89' Rest level of water

Yield (27·13m)

Quality (with copy of analysis on separate sheet)

GEOLOGICAL FORMATION	NATURE OF STRATA	THICKNESS Feet	THICKNESS Inches	DEPTH Feet	DEPTH Inches
	Made Ground.	4	–	4	(1·22m)
	River Mud.	2	–	6	(1·83m)
	Clay.	23		29	(8·84m)

For Hampstead Tube Railway

GEOLOGICAL SURVEY AND MUSEUM,
JERMYN STREET, LONDON, S.W.1.

(30478X) Wt. W30733/0131 2,500 4/31 *H. J. R. & L., Ltd.* Gp. 616

Project	ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client	[redacted]	Boring Methods	LIGHT CABLE PERCUSSION 150 mm DIAMETER CASED 150 mm DIAMETER G.L. TO 1.50 m UNCASED 1.50 TO 10.00 m	Hole No.	**BH1**
		Engineer	[redacted]			Sheet	1 of 1
Ground Level	26.66 m.A.O.D.	Coordinates	m.E. m.N.			Job No	**10482**

WATER				STRATA				SAMPLING/IN SITU TEST			LAB TESTING						
Date/Time at Depth	Depth of Casing m	Depth to Water m	Inst.	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Blows/ Strength	% <425	w %	w_P %	w_L %	ρ Mg/m^3	c_u kN/m^2	OTHER TESTS AND NOTES
				Made Ground (Reinforced concrete surfacing)		26.56	0.10										Hand excavated from ground level to 1.20m (120mins)
				Made Ground (Dark grey subangular fine-coarse gravel size ash, clinker, brick and mortar fragments with occasional pieces of glass, plastic, wood and pottery)		25.96	0.70	0.40	D1								CLEA screen with speciated polyaromatic hydrocarbons, total petroleum hydrocarbons and asbestos screen (D1)
								0.80	D2								
				Soft extremely closely fissured grey brown slightly sandy [silty] CLAY with some blue gleying and occasional partings of silt and sand (London Clay)				1.20-1.65	U1	(35)	100	31	22	69	1.96	34	
								1.65	D3								
								1.90	D4								pH and Water Soluble Sulphate
				- occasional selenite crystals recorded at some depths				2.10-2.60	U2	(35)		32			1.91	48	One-dimensional Consolidation
				- rare partially decayed root traces recorded to 2.60m approximately				2.60	D5								
								2.90	D6								
				- becoming firm with increasing depth				3.10-3.60	U3	(50)	100	31	23	73	1.95	54	
								3.60	D7								
								3.80	D8								
						22.46	4.20	4.10-4.20	U4	(100)							Undisturbed sample attempted at 4.10m - failed on recovery
				Very weak-weak brown CLAYSTONE [recovered as subangular fine-coarse gravel size fragments] (London Clay)		22.36	4.30	4.10-4.50	B1								Chisel in use between 4.20 and 4.30m (30mins)
				Firm extremely closely fissured dark grey brown [silty] CLAY (London Clay)				5.00-5.45	S1	N=12							
								5.45	D9								
				- occasional partings of ironstained red brown silt and fine sand recorded at some depths				6.00	D10								
								6.50-7.00	U5	(55)		31			1.95	71	
								7.00	D11								
								7.50	D12								pH and Water Soluble Sulphate
				- becoming stiff with increasing depth				8.00-8.45	S2	N=20							
								8.45	D13								No groundwater recorded during drilling
								9.00	D14								Borehole complete at 10.00m
								9.50-10.00	U6	(70)	100	31	26	74	1.97	130	On completion of drilling backfilled with bentonite cement grout from ground level to 10.00m
						16.66	10.00	10.00	D15								

Water Level observations during boring, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- 1 First Strike
- 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- P Piston sample

TEST KEY
- S Standard penetration test
- C Cone penetration test
- K Permeability test
- V In situ vane test

BLOWS / STRENGTH
- N = N value
- 26/150 blows, for 150mm, drive after seating
- 26*, blows for part or whole of seating drive only
- (26) U sample blow count
- V = Vane Strength - kN/m^2

Fieldwork By	MW
Dates	02/10/06
Log	AJS

Sheet 1 of 1 — BH1

RSA GEOTECHNICS LTD (01449) 723723

Project	ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client	[redacted]
		Engineer	[redacted]
Ground Level	25.38 m.A.O.D.	Coordinates	m.E. m.N.
Boring Methods	PERCUSSIVE WINDOW SAMPLER	Hole No.	**WS1**
		Sheet	1 of 1
		Job No	**10482**

WATER				STRATA				SAMPLING/IN SITU TEST			LAB TESTING						
Date/Time at Depth	Depth of Casing m	Depth to Water m	Inst.	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Blows/ Strength	% <425	w %	w_P %	w_L %	ρ Mg/m^3	c_u kN/m^2	OTHER TESTS AND NOTES
				Made Ground (Ceramic tiles)		25.37	0.01										
						25.32	0.06										
				Made Ground (Weak concrete)		25.20	0.18	0.30	D1								Groundwater seepage recorded at 0.23m
				Made Ground (Brick rubble and concrete cemented together with runny concrete)		25.13	0.25										
				Made Ground (Weak concrete)													
				Soft brown with occasional grey [silty] CLAY with occasional fine-medium gravel sized claystone and rare fine-medium gravel sized orange brown sand pockets (London Clay)				0.70	D2								
				- becoming stiff from 0.40m				1.20	D3			33					
								1.50	D4								
								2.00	D5		100	33	25	74			
								2.50	D6								
								3.00	D7			30					
02/10/06		WET	C			21.38	4.00										Window sampler hole complete at 4.00m

Water Level observations during boring, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- 1 First Strike
- 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- P Piston sample

TEST KEY
- S Standard penetration test
- C Cone penetration test
- K Permeability test
- V In situ vane test

BLOWS / STRENGTH
- N = N value
- 26/150 blows, for 150mm, drive after seating
- 26*, blows for part or whole of seating drive only
- (26) U sample blow count
- V = Vane Strength - kN/m^2

Fieldwork By	AJD
Dates	02/10/06
Log	AJD

Sheet 1 of 1

WS1

RSA GEOTECHNICS LTD (01449) 723723

Project	ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client	[redacted]	Trial Pit Excavation Methods	BRADFORD WATTS HAND PIT	Hole No.	**TH1B**
		Engineer	[redacted]	Pit Dimensions: Length - 1.92 m	Width - 1.19 m	Sheet	1 of 1
Ground Level	25.35 m.A.O.D.	Coordinates	m.E. m.N.	Orientation: Length -		Job No	**10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				OTHER TESTS AND NOTES
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	W %	W_P %	W_L %	
		Made Ground (Brickwork wall)				0.30	D1						TH1B logged from north east face of Trial hole
				24.97	0.38								CLEA screen with speciated polyaromatic hydrocarbons (D1)
		Made Ground (Corbled brickwork)											Trial hole full of water on arrival
				24.56	0.79	0.80	D2						
		Made Ground (Mass concrete foundation)											Water standing level 0.88m below basement floor level
													Water level rose 0.60m in 2hrs 20mins from empty
						1.50	D3						
25/10/06	WET C			23.66	1.69	1.69	W1						CLEA screen with speciated polyaromatic hydrocarbons (W1)
		Firm brown fissured [silty] CLAY with blue grey gleying along fissures (London Clay)		23.57	1.78								Trial pit complete at 1.78m

Pit Stability, Shoring, etc.
No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- 1 First Strike
- 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

PP	Perth Penetrometer Test
HV	Hand shear vane test
SRD	Sand replacement density test
CBR	In situ CBR test
PB	Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB	Sheet 1 of 1	**TH1B**
Dates	25/10/06		
Log	GJB		

RSA GEOTECHNICS LTD (01449) 723723

Project: ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client: [redacted]	Trial Pit Excavation Methods: BRADFORD WATTS HAND PIT	Hole No. **TH2A**
	Engineer: [redacted]	Pit Dimensions: Length - 1.80 m Width - 1.70 m	Sheet 1 of 1
Ground Level: 25.38 m.A.O.D.	Coordinates: m.E. m.N.	Orientation: Length -	Job No **10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	W %	W_P %	W_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.34	0.04								TH2A logged from north west face of Trial hole
		Made Ground (Brick and concrete rubble)				0.30	D1						
				24.98	0.40	0.35	W1						CLEA screen with speciated polyaromatic hydrocarbons and total petroleum hydrocarbons (W1)
		Firm brown fissured [silty] CLAY with blue grey gleying along fissures (London Clay) - water softened				0.50	D2						Trial hole full of water on arrival
													Water standing level 0.35m below basement floor level
													Water level rose 1.05m in 1hr 20mins from empty
25/10/06	WET C			23.60	1.78	1.80	D3		100	36	24	74	Trial pit complete at 1.80m

Pit Stability, Shoring, etc.
No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- 1 First Strike
- 2 Subsequent Strike
- N - Overnight Depth
- C - Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

PP	Perth Penetrometer Test
HV	Hand shear vane test
SRD	Sand replacement density test
CBR	In situ CBR test
PB	Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB
Dates	25/10/06
Log	GJB

Sheet 1 of 1

TH2A

RSA GEOTECHNICS LTD

(01449) 723723

Project: ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client: [redacted]	Trial Pit Excavation Methods: BRADFORD WATTS HAND PIT	Hole No. **TH3A**
	Engineer: [redacted]	Pit Dimensions: Length - 1.53 m Width - 0.93 m	Sheet 1 of 1
Ground Level: 25.40 m.A.O.D.	Coordinates: m.E. m.N.	Orientation: Length -	Job No **10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	W %	W_P %	W_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.36	0.04								TH3A logged from north east face of Trial hole
		Made Ground (Blinding concrete screed)		25.33	0.07								
		Made Ground (Brickwork pier)		25.24	0.16								
		Made Ground (Stone pad base)		25.08	0.32								Slight amount of water in base of Trial hole at 0.32m
25/10/06	WET C	Made Ground (Brick rubble set in concrete)		24.88	0.52	0.52	D1						Trial pit complete at 0.58m
				24.82	0.58								
		Made Ground (Brick rubble, crushed concrete ash, clinker and flint gravel)		24.82	0.58								
		Firm brown fissured [silty] CLAY (London Clay)											

Pit Stability, Shoring, etc.
No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- ▼ 1 First Strike
- ▽ 2 Subsequent Strike
- N - Overnight Depth
- C - Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

- PP Perth Penetrometer Test
- HV Hand shear vane test
- SRD Sand replacement density test
- CBR In situ CBR test
- PB Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB
Dates	25/10/06
Log	GJB

Sheet 1 of 1 — TH3A

RSA GEOTECHNICS LTD (01449) 723723

Project: ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client: [redacted]	Trial Pit Excavation Methods: BRADFORD WATTS HAND PIT	Hole No. **TH4D**
	Engineer: [redacted]	Pit Dimensions: Length - 1.46 m Width - 1.43 m	Sheet 1 of 1
Ground Level: 25.40 m.A.O.D.	Coordinates: m.E. m.N.	Orientation: Length -	Job No **10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	w %	w_P %	w_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.36	0.04								TH4D logged from south west face of Trial hole
		Made Ground (Crushed brick and concrete)											
		Firm brown fissured [silty] CLAY with blue grey gleying along fissures (London Clay)		25.05	0.35	0.32	D1						CLEA screen with speciated polyaromatic hydrocarbons (D1)
						0.50	D2						Trial hole full of water on arrival
						1.00	D3						Water standing level 1.14m below basement floor level
		- water softened below 1.14m				1.14	W1						CLEA screen with speciated polyaromatic hydrocarbons (W1)
													Water level rose 0.50m in 45mins from empty
25/10/06	WET C			23.60	1.80								Trial pit complete at 1.80m

Pit Stability, Shoring, etc.

No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- ▼ 1 First Strike
- ▽ 2 Subsequent Strike
- N - Overnight Depth
- C - Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test
- PP Perth Penetrometer Test
- HV Hand shear vane test
- SRD Sand replacement density test
- CBR In situ CBR test
- PB Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB
Dates	25/10/06
Log	GJB

Sheet 1 of 1 | **TH4D**

RSA GEOTECHNICS LTD (01449) 723723

Project: ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client: [redacted]	Trial Pit Excavation Methods: BRADFORD WATTS HAND PIT	Hole No. **TH6C**
	Engineer: [redacted]	Pit Dimensions: Length - 1.50 m Width - 1.40 m	Sheet 1 of 1
Ground Level: 25.44 m.A.O.D.	Coordinates: m.E. m.N.	Orientation: Length -	Job No **10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	W %	W_P %	W_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.42	0.02								TH6C logged from north west face of Trial hole
		Made Ground (Reinforced concrete)		25.37	0.07								
		Made Ground (Concrete and brick rubble)		25.04	0.40								
		Firm orange brown [silty] CLAY with pockets of orange brown fine-medium sand				0.50	D1						
						0.50	HV1	V=66					No groundwater recorded during fieldwork
						1.00	D2						
						1.00	HV2	V=65					
30/10/06	DRY C			24.17	1.27								Trial pit complete at 1.27m

Pit Stability, Shoring, etc.
No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- ▼ 1 First Strike
- ▽ 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

PP	Perth Penetrometer Test
HV	Hand shear vane test
SRD	Sand replacement density test
CBR	In situ CBR test
PB	Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB
Dates	30/10/06
Log	GJB

Sheet 1 of 1

TH6C

RSA GEOTECHNICS LTD (01449) 723723

Project: ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client: [redacted]	Trial Pit Excavation Methods: BRADFORD WATTS HAND PIT	Hole No. **TH7B**
	Engineer: [redacted]	Pit Dimensions: Length - 2.13 m Width 1.80 m	Sheet 1 of 1
Ground Level: 25.35 m.A.O.D.	Coordinates: m.E. m.N.	Orientation: Length -	Job No **10482**

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% <425	W %	W_P %	W_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.31	0.04								TH7B logged from south east face of Trial hole .
		Made Ground (Brick and concrete rubble)											
				24.97	0.38	0.33	D1						
		Firm brown fissured [silty] CLAY with blue grey gleying along fissures (London Clay)											Trial hole full of water on arrival
						0.70	D2						
													Water standing level 1.40m below basement floor level
													Water level rose 0.35m in 1hr from empty
		- water softened below 1.40m											Water entering excavation from base of foundation and through pore space in concrete
						1.60	W1						CLEA screen with speciated polyaromatic hydrocarbons (W1)
25/10/06	WET C					1.70	D3						Trial pit complete at 1.75m
				23.60	1.75								

Pit Stability, Shoring, etc.

No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- ▼ 1 First Strike
- ▽ 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

PP	Perth Penetrometer Test
HV	Hand shear vane test
SRD	Sand replacement density test
CBR	In situ CBR test
PB	Plate Bearing Test

TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB
Dates	25/10/06
Log	GJB

Sheet 1 of 1

TH7B

RSA GEOTECHNICS LTD

(01449) 723723

Project	ARLINGTON HOUSE, 220 ARLINGTON ROAD, CAMDEN, LONDON	Client	[redacted]	Trial Pit Excavation Methods	BRADFORD WATTS HAND PIT	Hole No.	TH8C
		Engineer	[redacted]			Sheet	1 of 1
Ground Level	25.33 m.A.O.D.	Coordinates	m.E. m.N.	Pit Dimensions: Orientation:	Length - 1.80 m Width - 0.40 m Length -	Job No	10482

WATER		STRATA				SAMPLING/IN SITU TEST			LAB TESTING				
Date/Time at Depth	Depth to Water m	Description	Legend	Level m.A.O.D.	Depth m	Depth m	Type & No.	Test Result	% < 425	W %	W_P %	W_L %	OTHER TESTS AND NOTES
		Made Ground (Floor tile)		25.31	0.02								TH8C logged from south east face of Trial hole .
		Made Ground (Concrete and crushed brick rubble)				0.20	D1						
		Firm-stiff orange brown [silty] CLAY (London Clay)		24.98	0.35	0.50	D2						No groundwater recorded during fieldwork
						0.50	HVC1	V=85					
30/10/06	DRY C			24.24	1.09								Water in hole from Diamond Drilling corehole in wall above pit
													Trial pit complete at 1.09m

Pit Stability, Shoring, etc.
No collapse of sides of trial pit

Water Level observations during digging, depths below GL.					
Strike	Depth Obs.	Depth after 5min	10 min	15 min	20 min

WATER
- ▼ 1 First Strike
- ▽ 2 Subsequent Strike
- N - Overnight Depth
- C- Completion Depth
- S Seepage not rising

SAMPLE AND TEST KEY
- D Small disturbed sample
- B Bulk disturbed sample
- W Water sample
- U Undisturbed sample
- K Percolation Test

PP	Perth Penetrometer Test
HV	Hand shear vane test
SRD	Sand replacement density test
CBR	In situ CBR test
PB	Plate Bearing Test

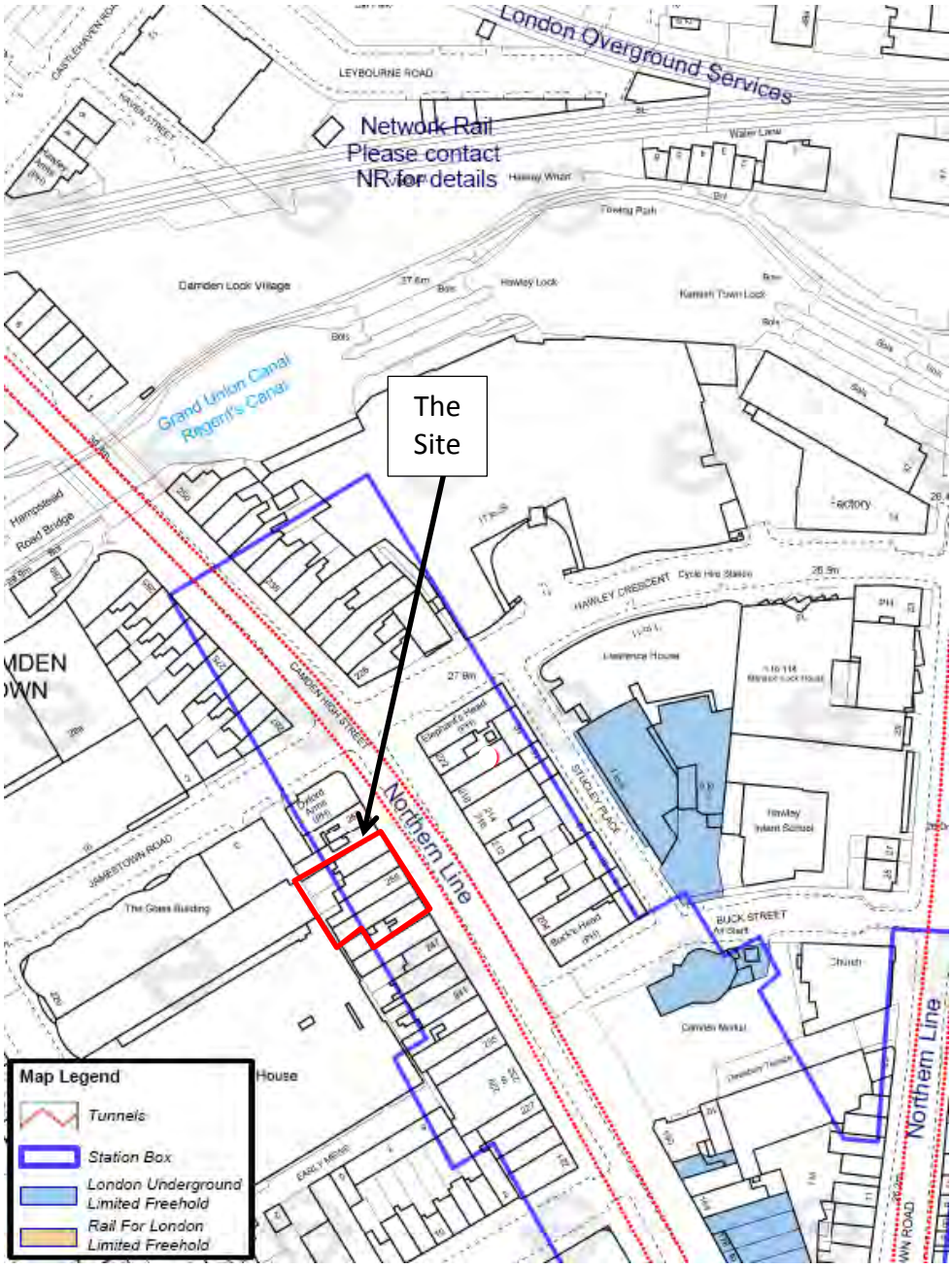
TEST RESULT
- Np = Np Value
- V = Average Hand Shear Vane Strength - kN/m^2
- BD = In-Situ Bulk Density - Mg/m^3
- CBR = California Bearing Ratio - %

Fieldwork By	GJB	Sheet 1 of 1	TH8C
Dates	30/10/03		
Log	GJB		

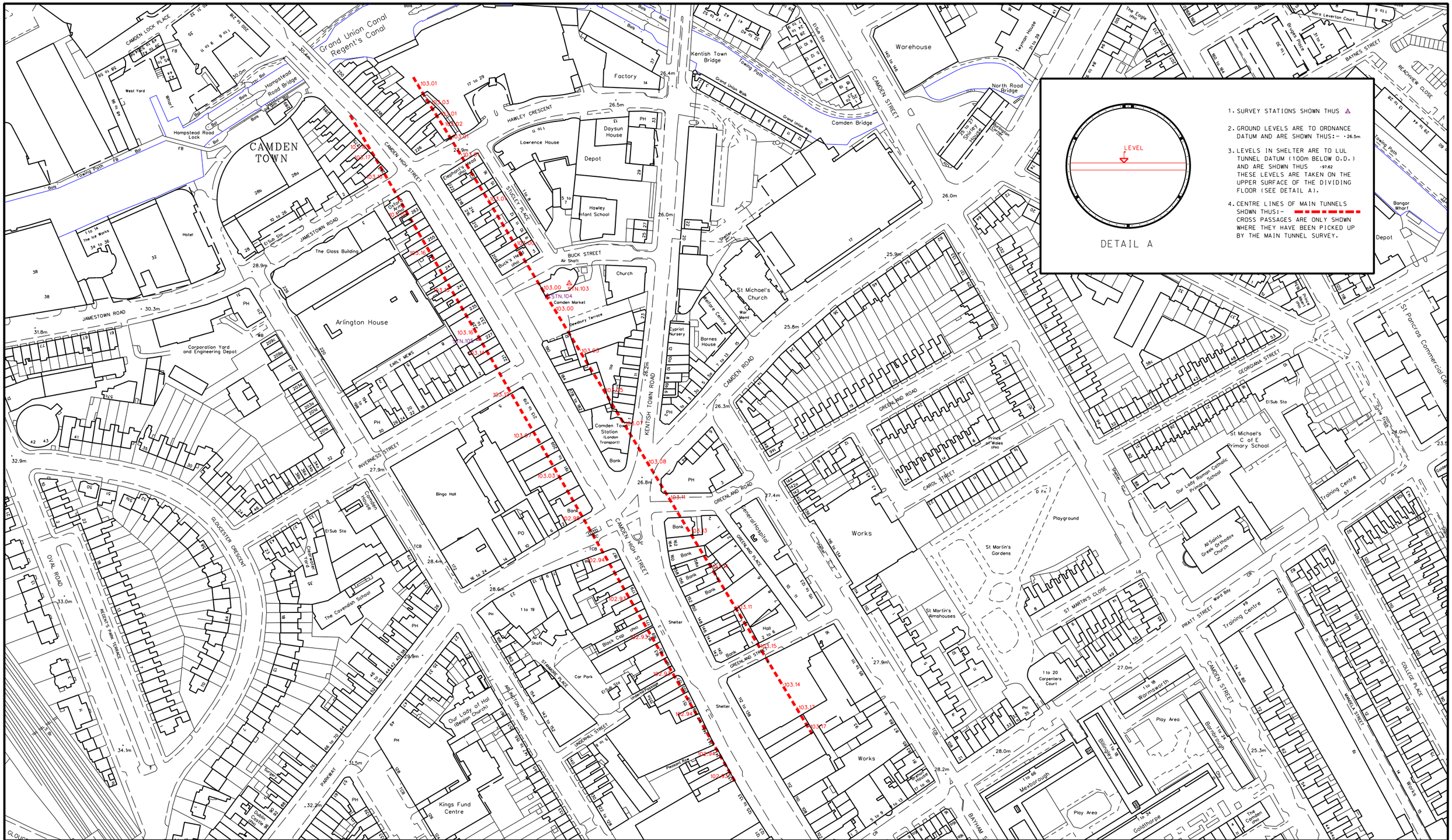
RSA GEOTECHNICS LTD (01449) 733723

APPENDIX C

Underground infrastructure drawings



Client	Project	Job No
Castlehaven Row Limited	**251 – 259 Camden High Street, London**	**CG/18648**
CGL	Title **London underground tunnel plan**	**Appendix C**



1. SURVEY STATIONS SHOWN THUS △

2. GROUND LEVELS ARE TO ORDNANCE DATUM AND ARE SHOWN THUS:- + 26.5m

3. LEVELS IN SHELTER ARE TO LUL TUNNEL DATUM (100m BELOW O.D.) AND ARE SHOWN THUS ·97.62 THESE LEVELS ARE TAKEN ON THE UPPER SURFACE OF THE DIVIDING FLOOR (SEE DETAIL A).

4. CENTRE LINES OF MAIN TUNNELS SHOWN THUS:- ▬ ▬ ▬ ▬ CROSS PASSAGES ARE ONLY SHOWN WHERE THEY HAVE BEEN PICKED UP BY THE MAIN TUNNEL SURVEY.

N

UNDERGROUND

London Underground Limited

Infrastructure Protection

Camden Town
Deep Level Shelter

Date

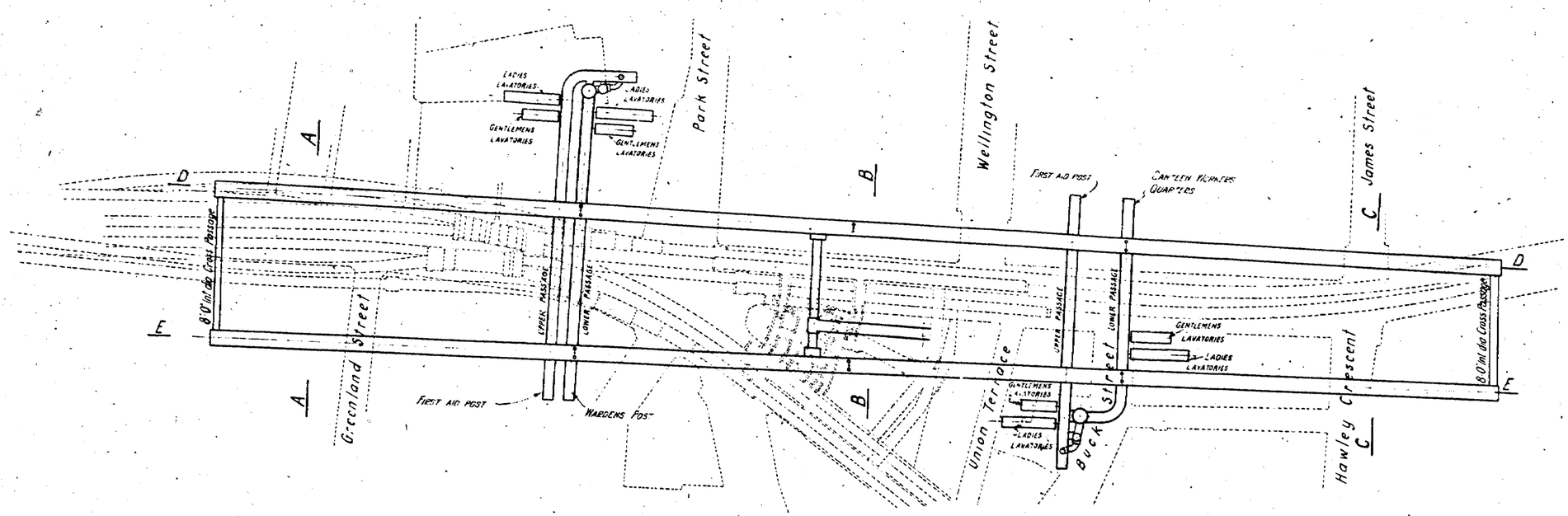
Drawing No

Plotted: $$$DATE$$$$ CAD File: $$$$$$$$$$$$$$$$$DGNSPEC$$$$$$$$$$$$$$$$$$$$$$$

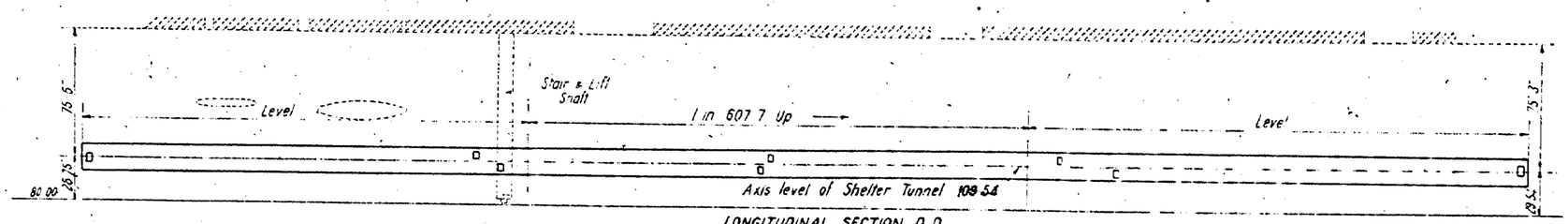
HOME OFFICE TUNNEL SHELTERS.

SHELTERS AT CAMDEN TOWN.

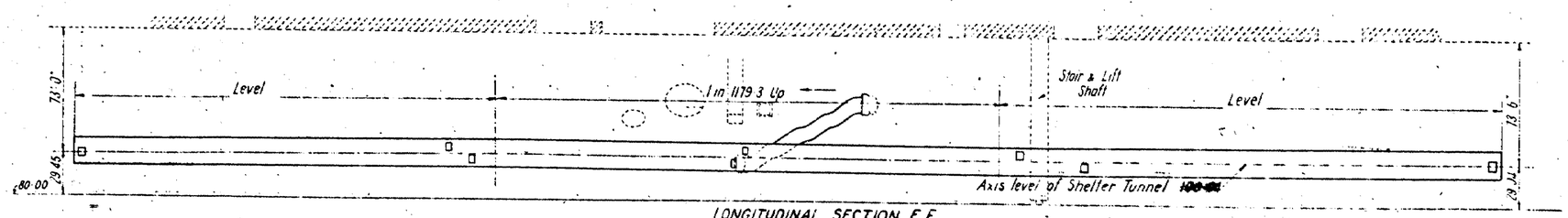
H.O.S.14.D
AS CONSTRUCTED



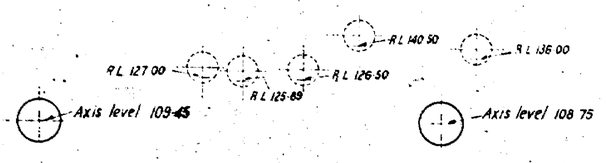
PLAN
SCALE 88 FEET TO 1 INCH



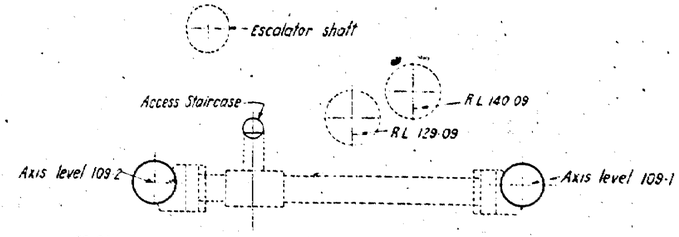
LONGITUDINAL SECTION D D
HORIZONTAL SCALE 88 FEET TO 1 INCH
VERTICAL SCALE 60 FEET TO 1 INCH



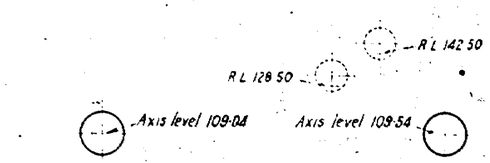
LONGITUDINAL SECTION E E
HORIZONTAL SCALE 88 FEET TO 1 INCH
VERTICAL SCALE 60 FEET TO 1 INCH



SECTION A A



SECTION B B
SCALE 40 FEET TO 1 INCH



SECTION C C

Datum is 100·00 below ordnance datum
All Levels refer to Liverpool Datum

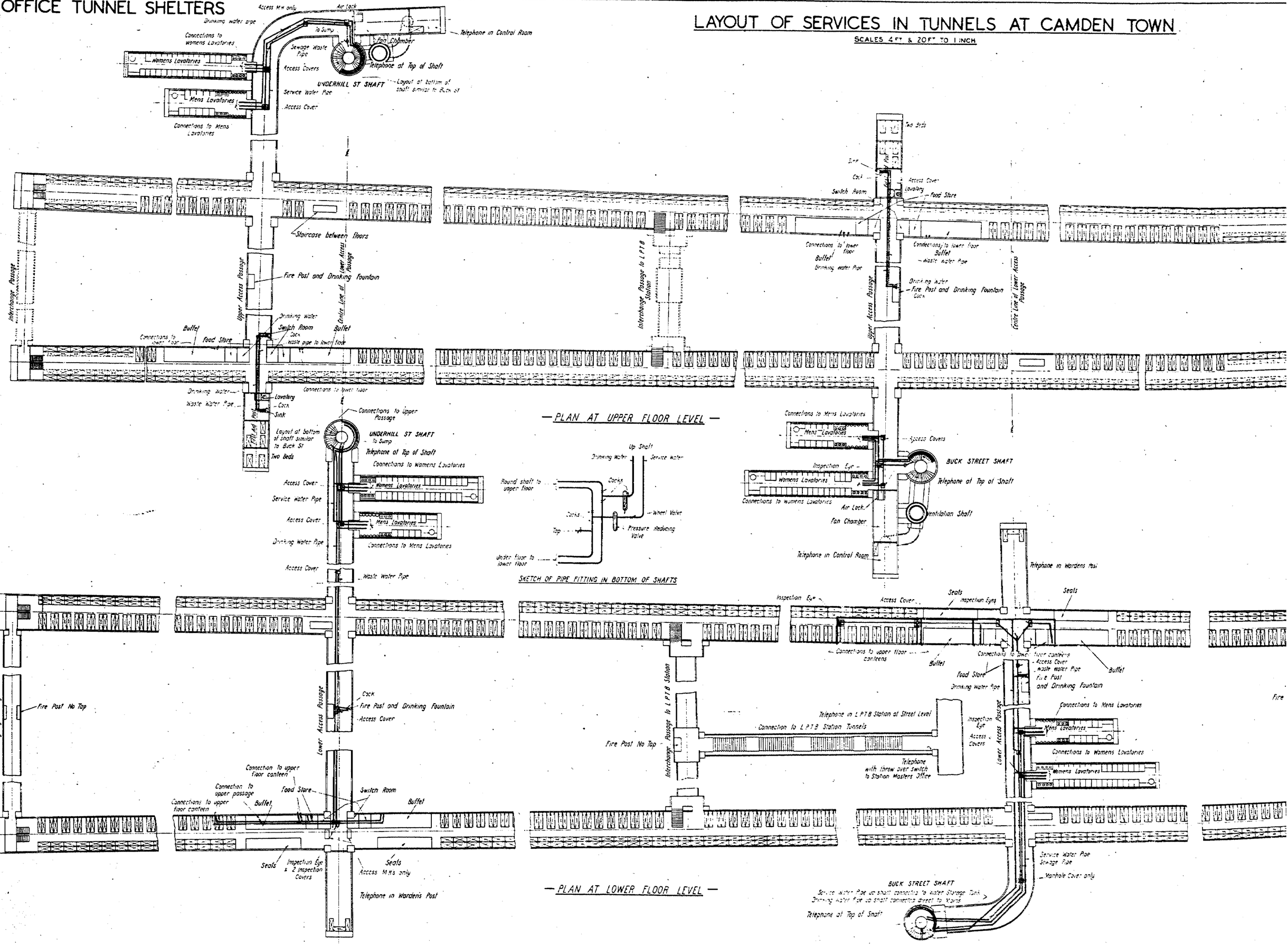
5951

Alliance House
Caxton Street
Westminster S W 1
18·1·41

HOME OFFICE TUNNEL SHELTERS

LAYOUT OF SERVICES IN TUNNELS AT CAMDEN TOWN

SCALES 4 FT & 20 FT TO 1 INCH



6375

FRAME No. 13 A

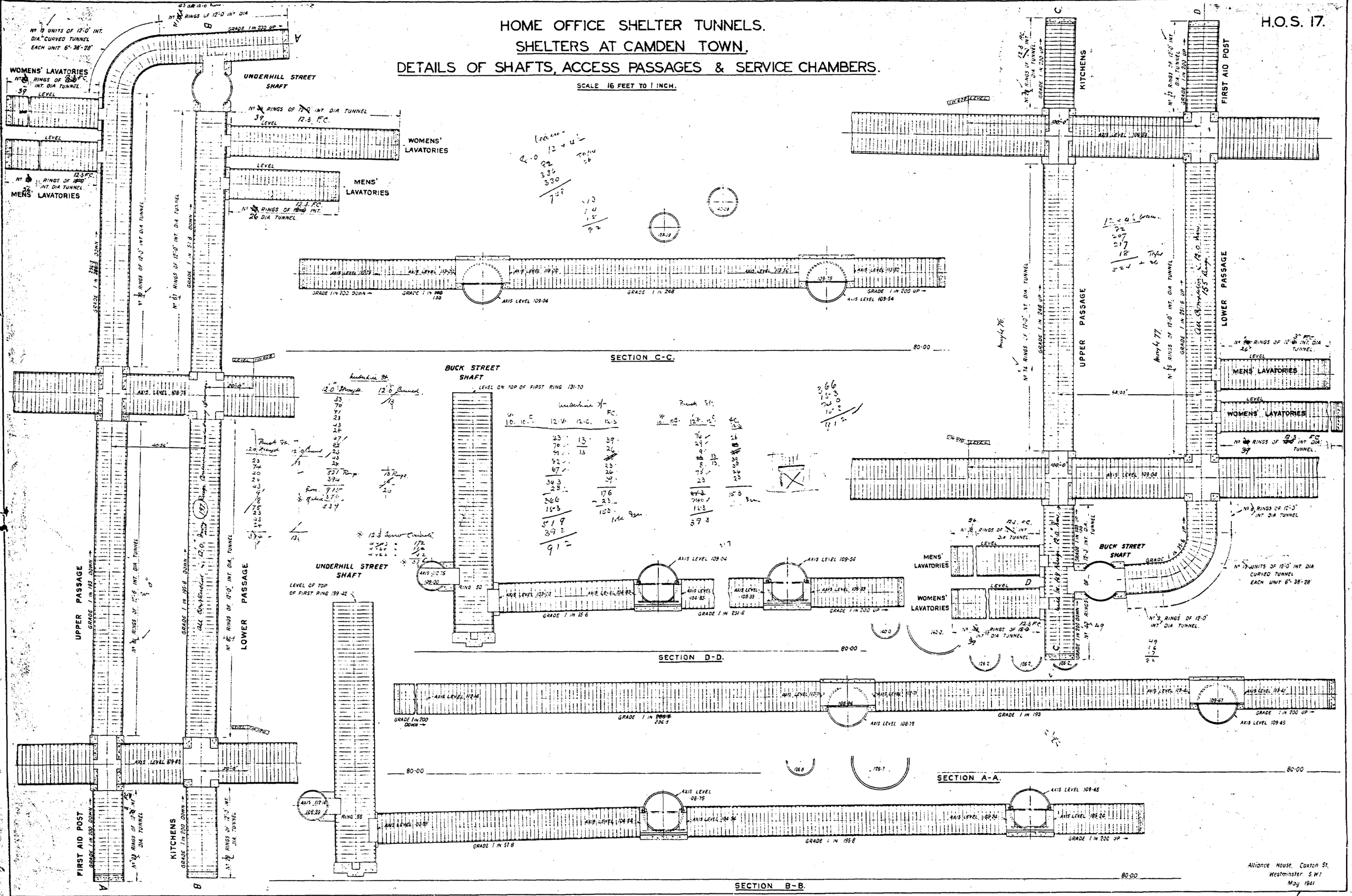
H.O.S. 17.

HOME OFFICE SHELTER TUNNELS.

SHELTERS AT CAMDEN TOWN.

DETAILS OF SHAFTS, ACCESS PASSAGES & SERVICE CHAMBERS.

SCALE 16 FEET TO 1 INCH.



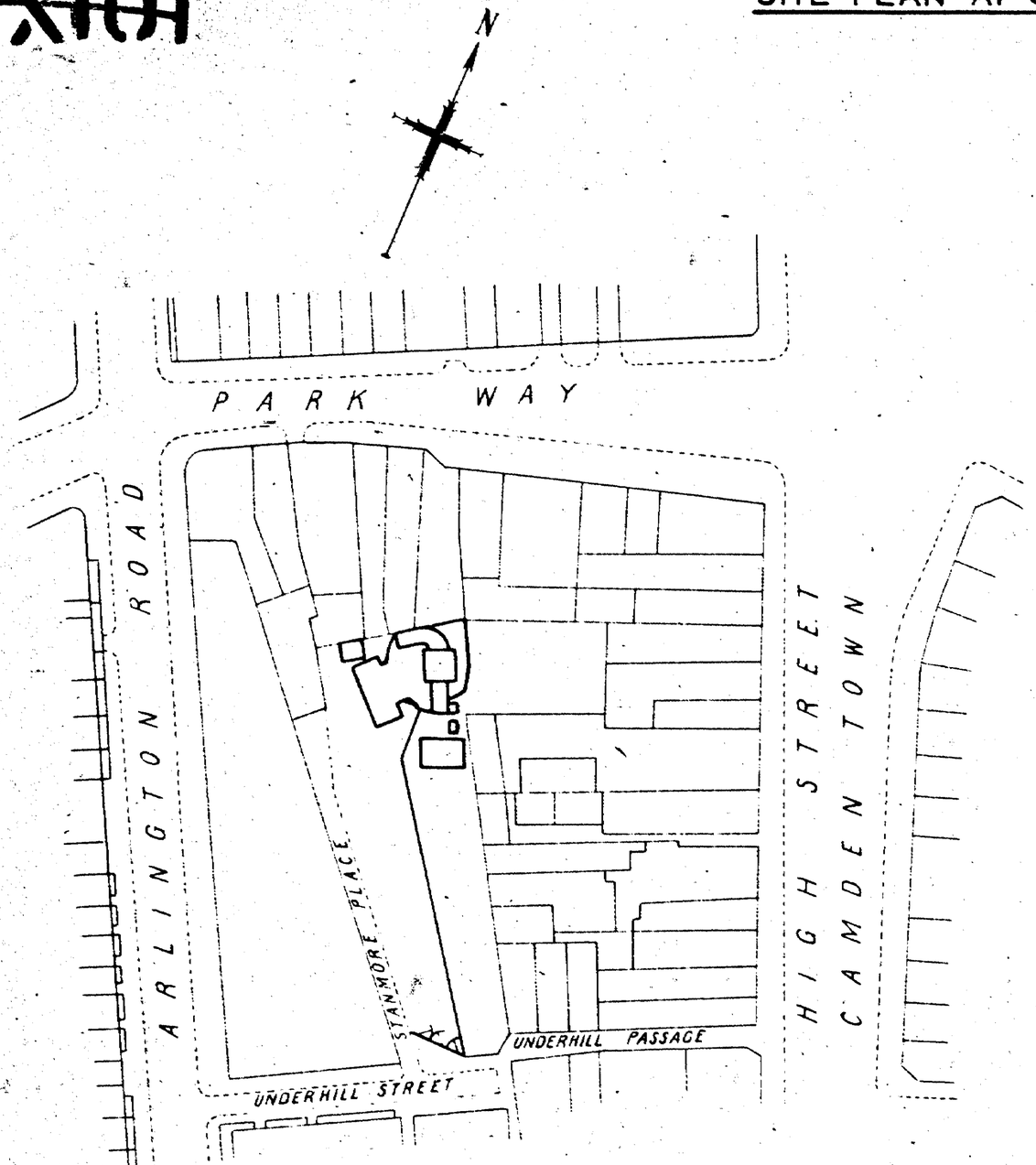
Alliance House, Caxton St. Westminster S.W.1 May 1941

FRAME No. 6

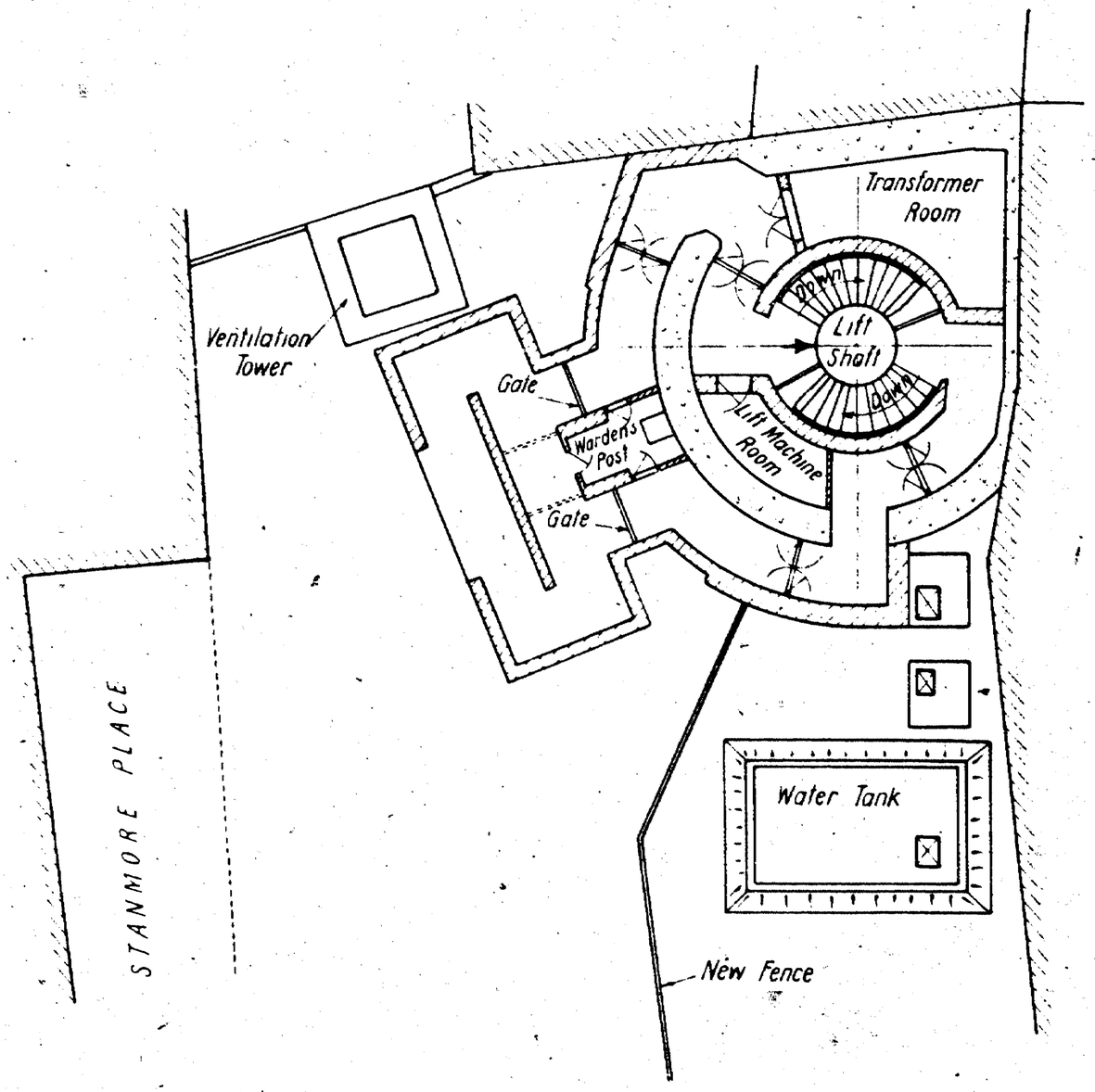
HOME OFFICE TUNNEL SHELTERS.

SITE PLAN AT UNDERHILL STREET CAMDEN TOWN.

H.O.S. 219.



KEY PLAN
Scale 88'-1"



SITE PLAN
Scale 16'-1"

7009

FRAME No 9

Alliance House, Caxton Street,
Westminster S W 1
7th June 1943

HOME OFFICE TUNNEL SHELTERS. SITE PLAN AT BUCK STREET CAMDEN TOWN. H.O.S. 218.

KEY PLAN
Scale 88'-1"

FRAME No. 8

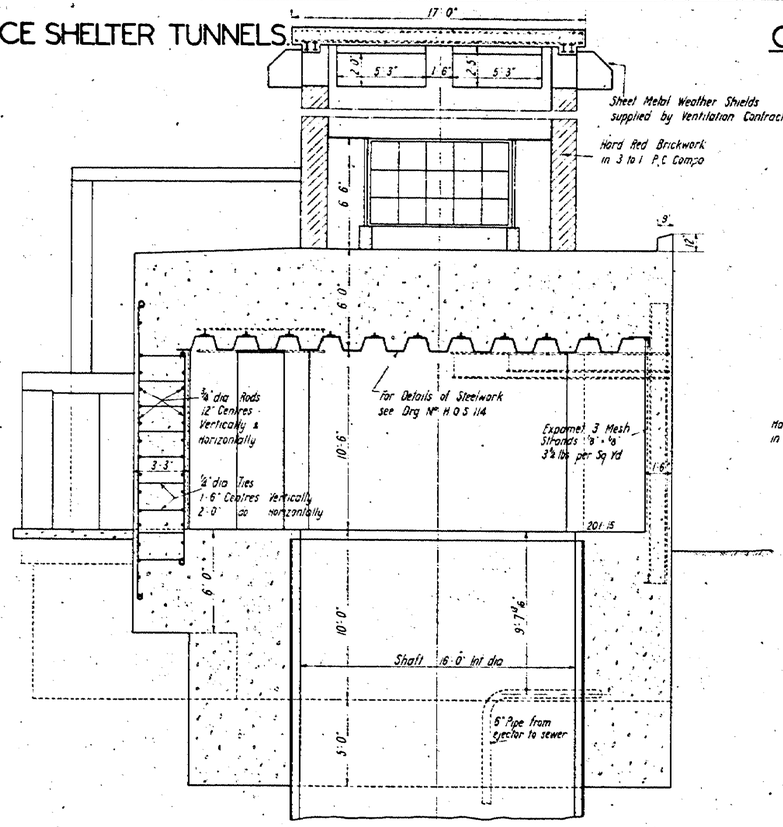
SITE PLAN
Scale 16'-1"

Alliance House Caxton Street
Westminster S W 1
7th June 1943

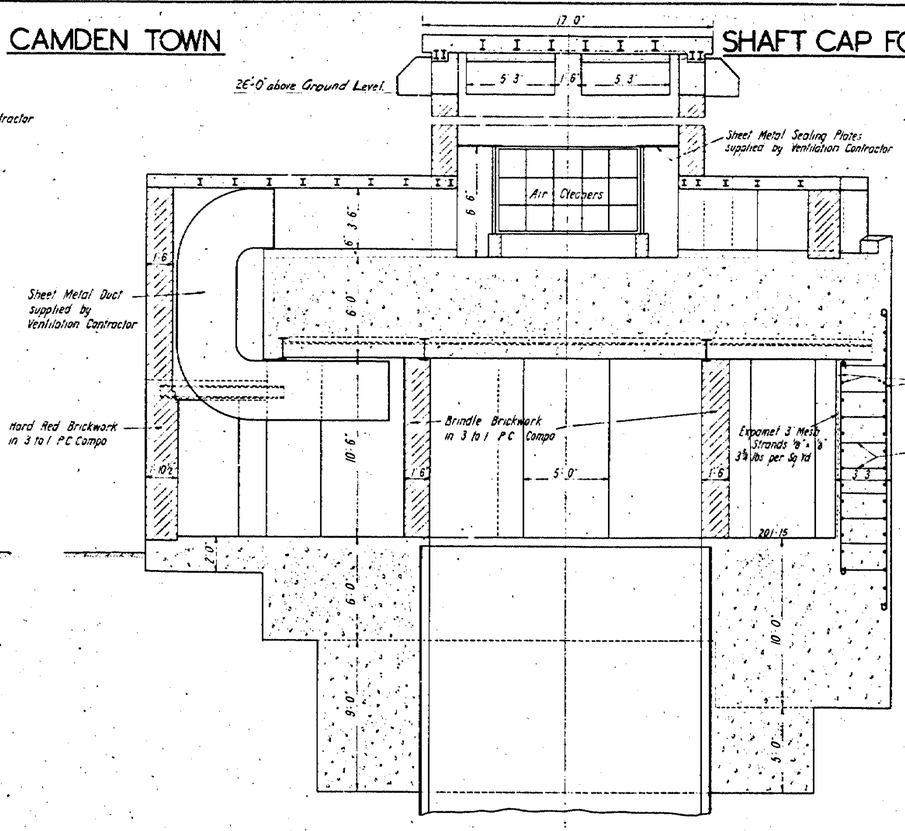
7008

HOME OFFICE SHELTER TUNNELS — CAMDEN TOWN — SHAFT CAP FOR UNDERHILL STREET SHAFT.

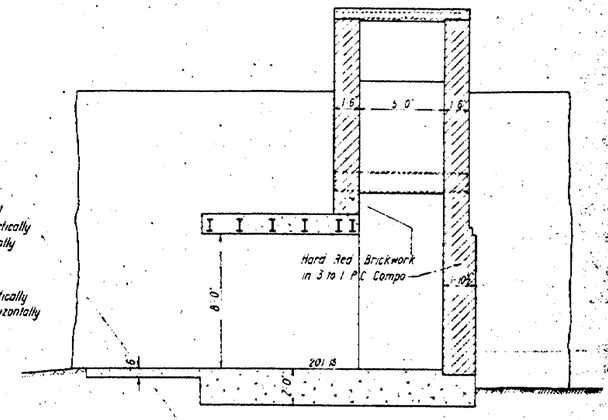
H.O.S. 119. B



— SECTION A A —



— SECTION B B —



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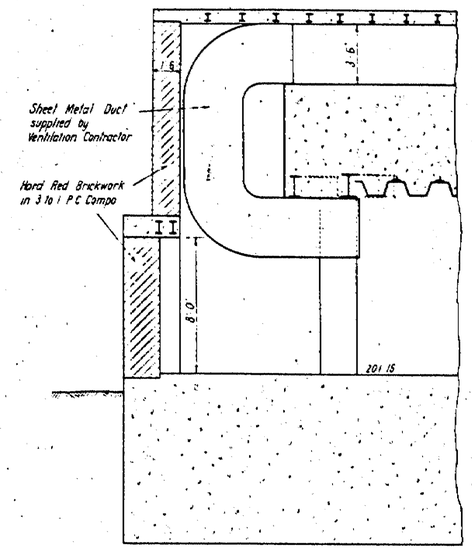
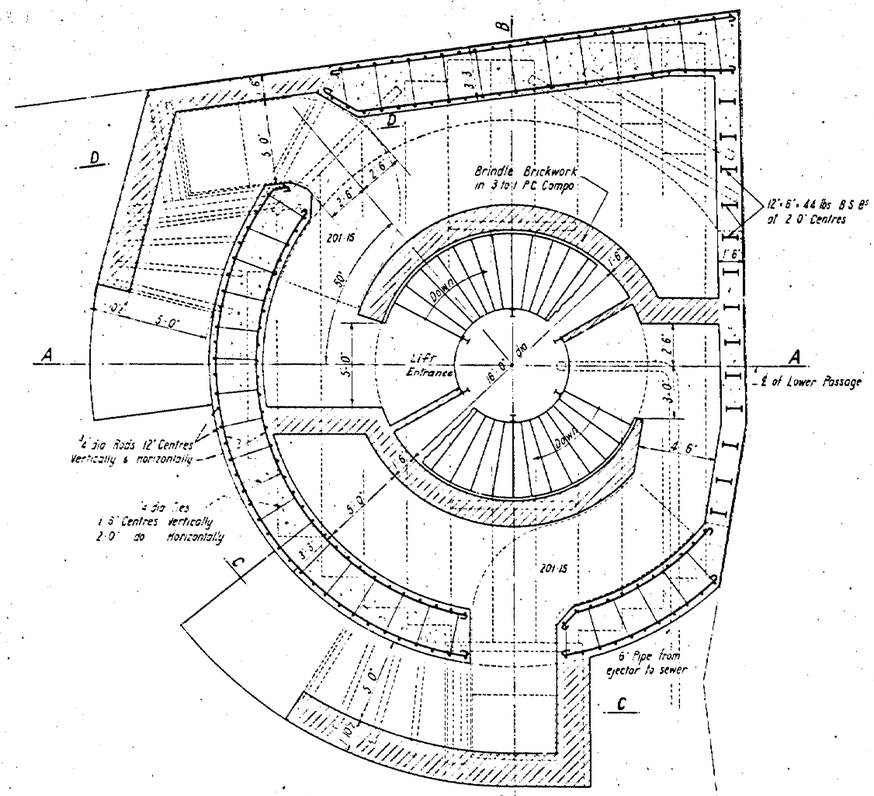
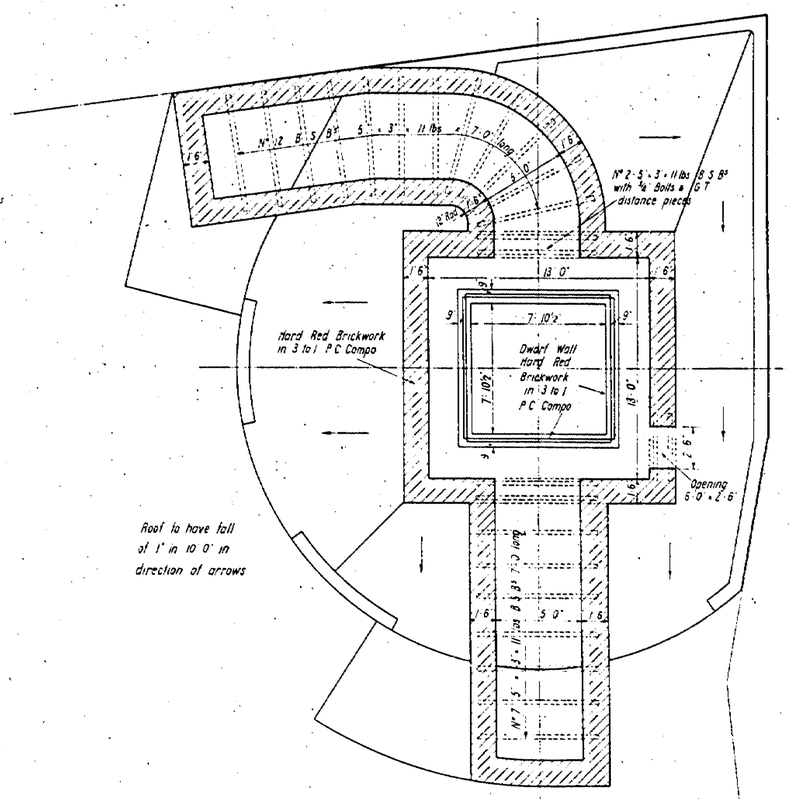


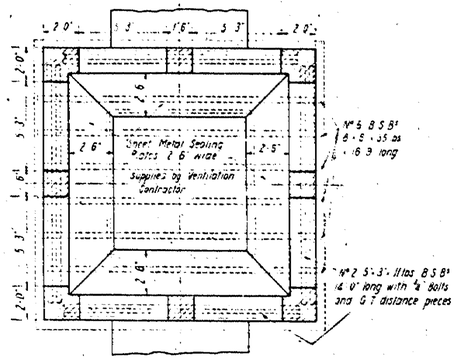
— SECTION D D —



— PLAN —



— ROOF PLAN SHEWING AIR FILTER HOUSE AND DUCTS —



— PLAN OF UPPER PART OF FILTER HOUSE —

6418

Alliance House Caxton Street Westminster S.W.1 29th April 1942

FRAME No. 10

HOME OFFICE TUNNEL SHELTERS

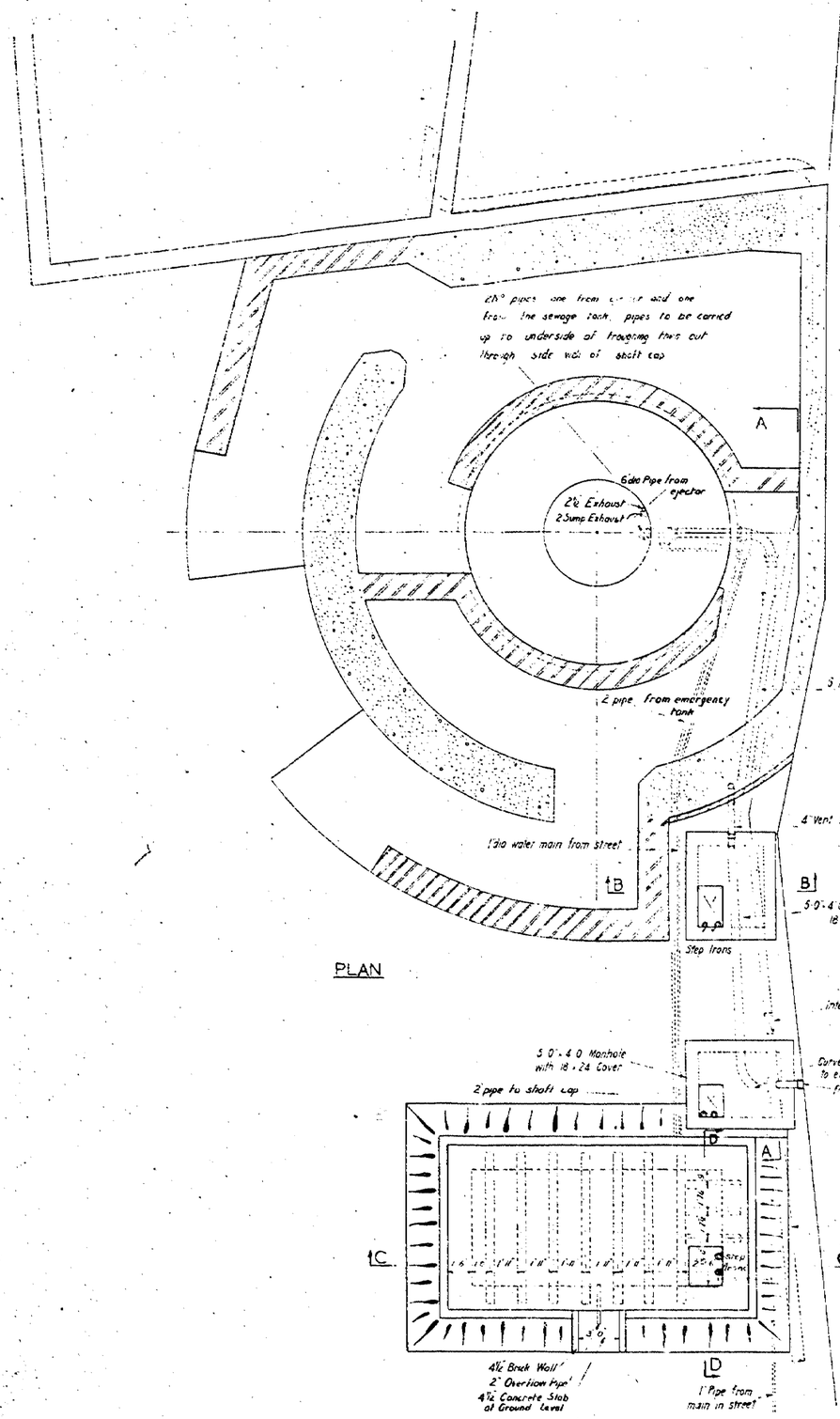
DETAILS OF PIPE FROM SHAFT TO SEWER & FRESH WATER STORAGE TANK AT UNDERHILL STREET CAMDEN TOWN.

H.O.S. 226.

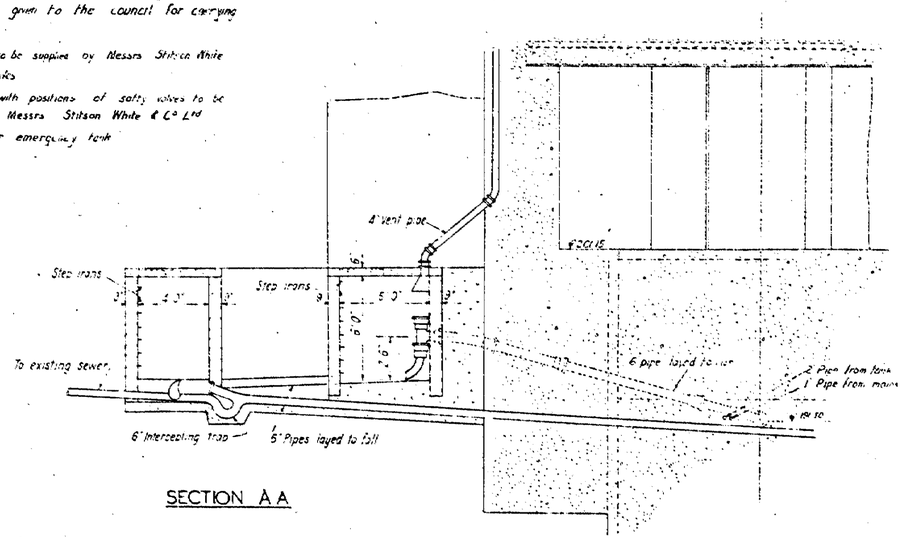
AS CONSTRUCTED

SCALE ½"-1'0"

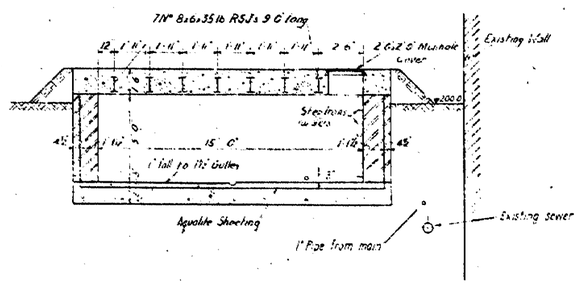
Actual connection to sewer to be made by Hampstead Borough Council
A minimum of 24 hour notice to be given to the council for carrying out this work
Manhole covers, pipes & pipe connections to be supplied by Messrs Stilson White & Co Ltd Main contractor to build manholes
Exact levels of run of pipes together with positions of salty valves to be decided on the site in conjunction with Messrs Stilson White & Co Ltd Main contractors to supply steel work for emergency tank



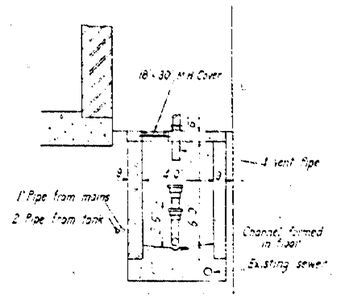
PLAN



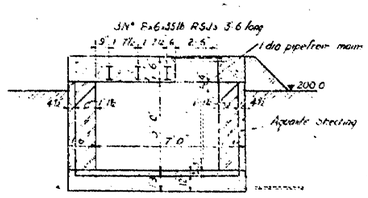
SECTION A A



SECTION C C



SECTION B B



SECTION D D

7554

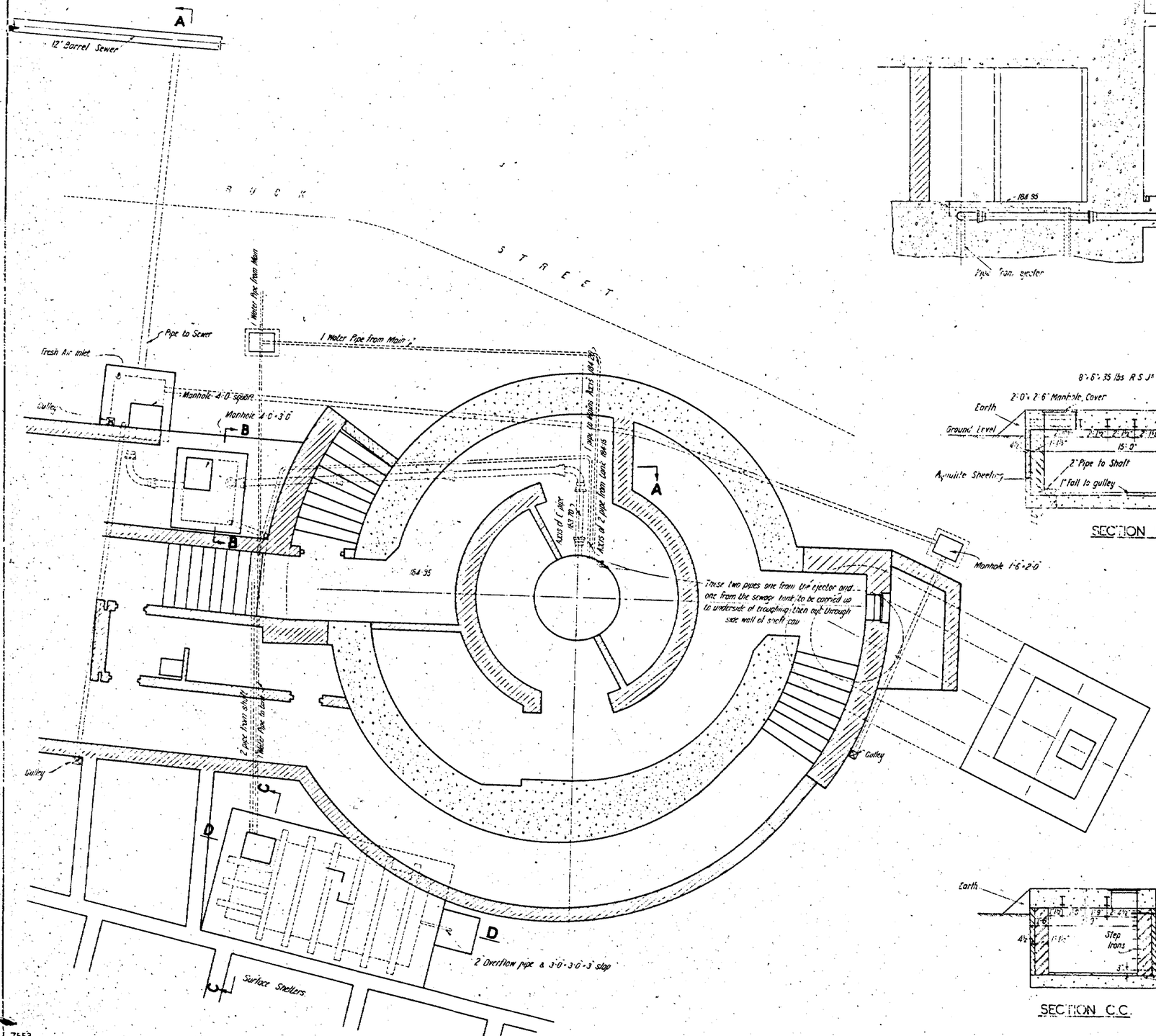
FRAME No. 15

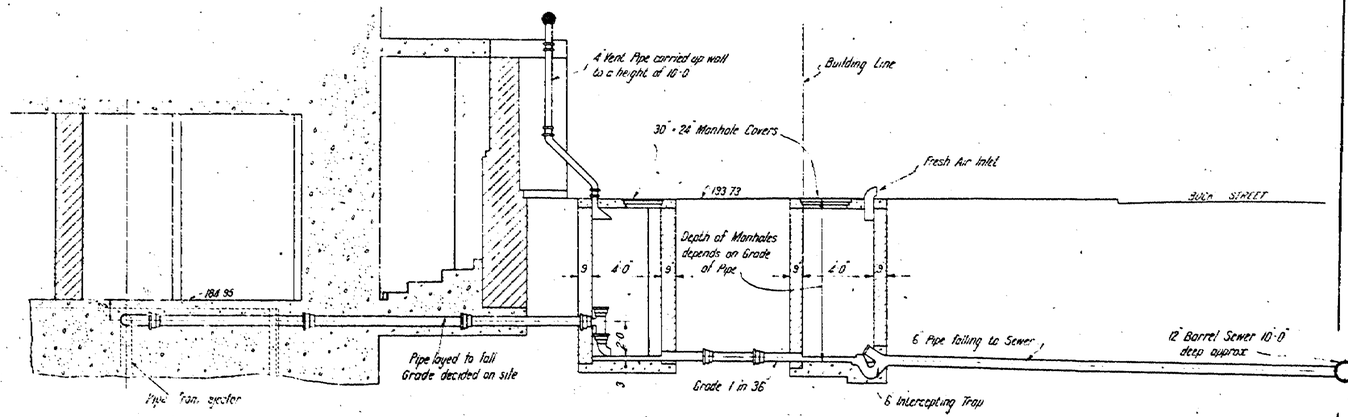
HOME OFFICE SHELTER TUNNELS

LAYOUT OF SERVICES AT SURFACE. BUCK STREET SHAFT.

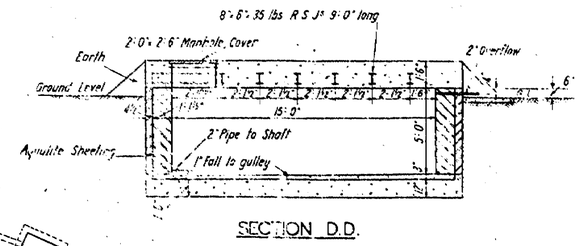
H.O.S. 225

Scale 4 feet to 1 inch





SECTION A.A

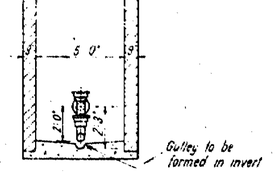


SECTION D.D.

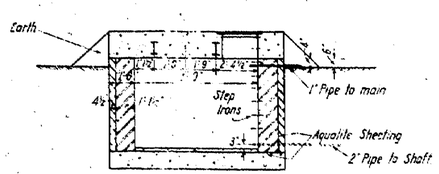
NOTE

Actual connection to sewer is to be made by Sir Alexander Gibb & Partners Council. A minimum of 24 hours notice is to be given to the Council for carrying out this work.

Manhole covers, steps, & pipe connections to be supplied by Stilson White & Co. Ltd. Main contractors to build manholes.



SECTION B.B.



SECTION C.C.

7553

Alliance House, Caxton Street, Westminster S.W.1
15th July 1942

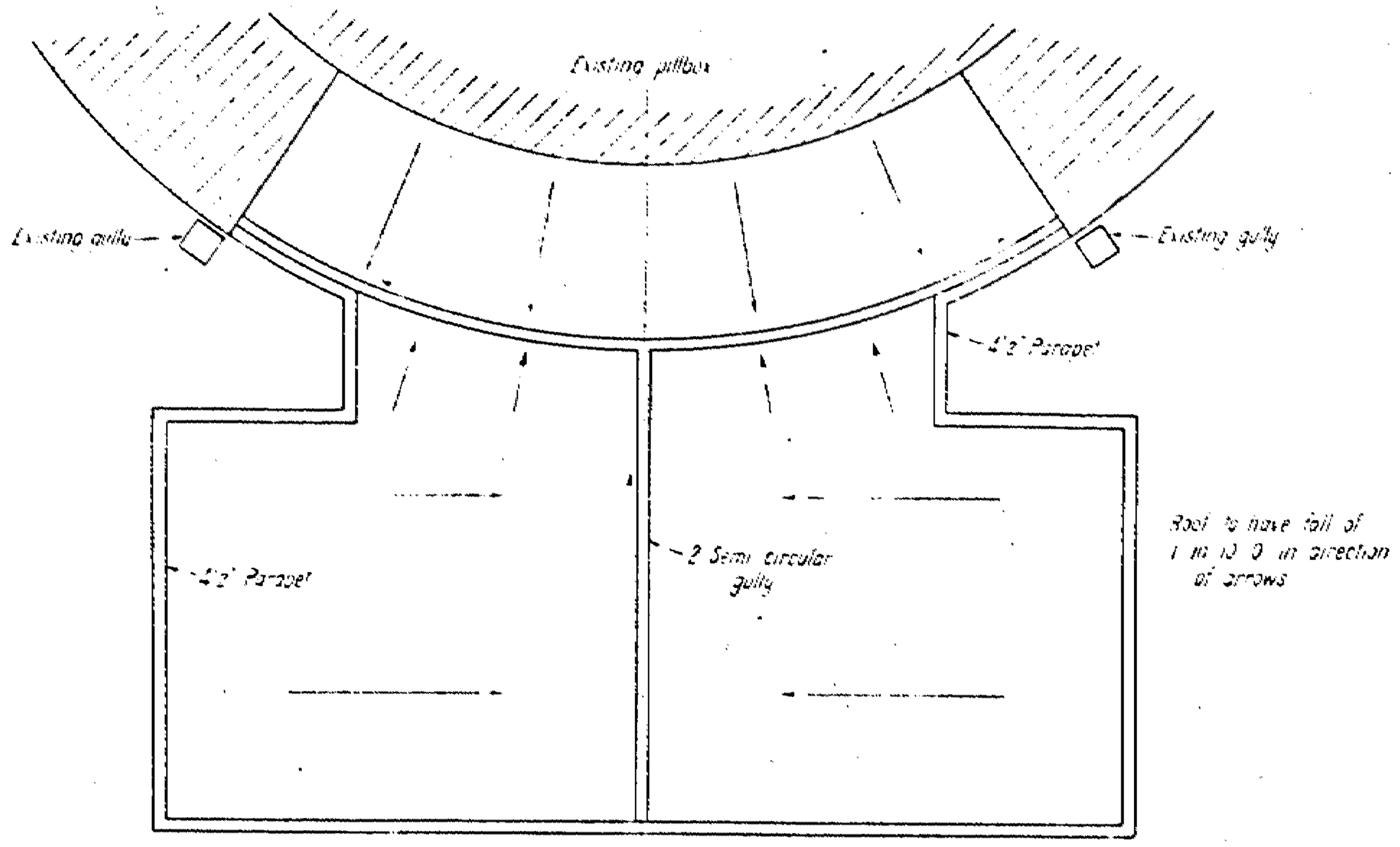
FRAME No. 14

HOME OFFICE TUNNEL SHELTERS

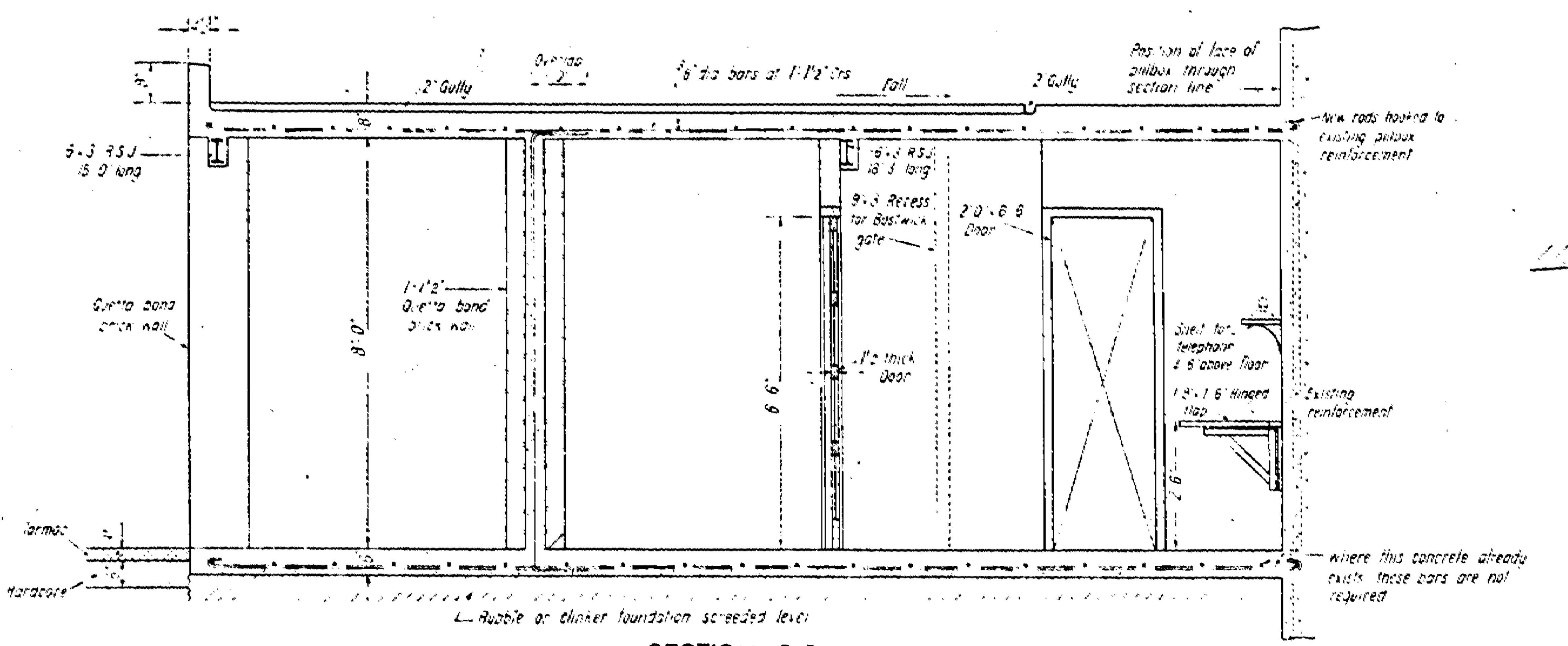
ADDITIONAL TRAFFIC PROTECTION FOR SHAFT CAP AT UNDERHILL STREET.

SCALES ¼" & ½" TO 1'-0"

H.O.S. 202.

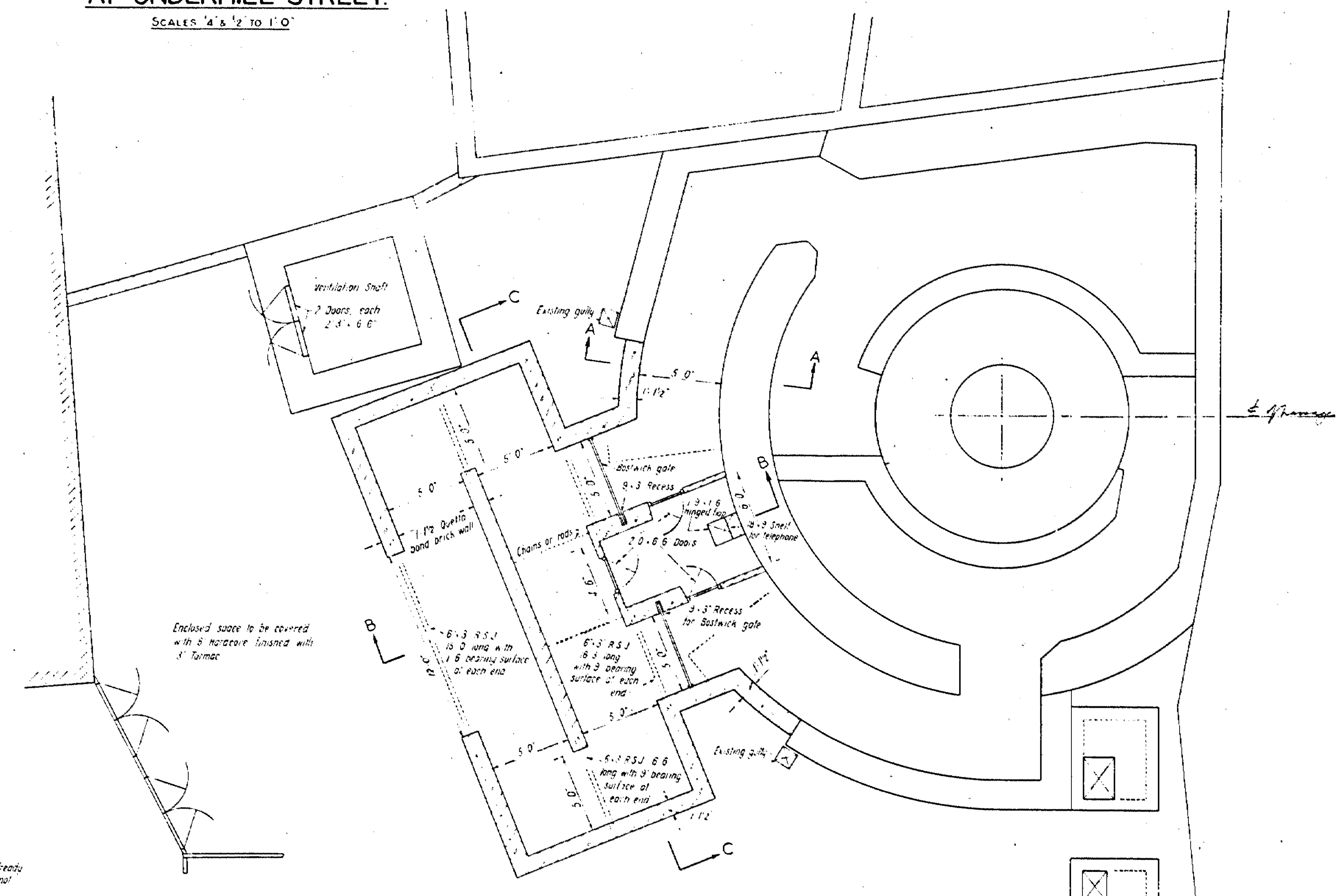


RAIN WATER DISPOSAL

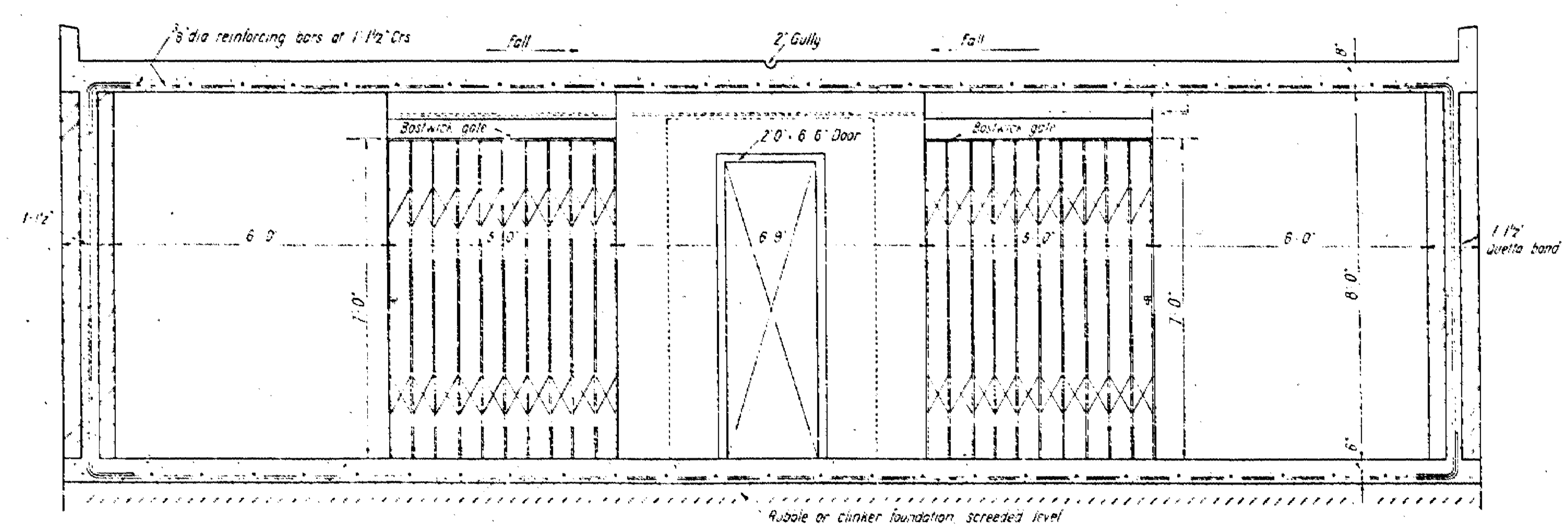


SECTION B B

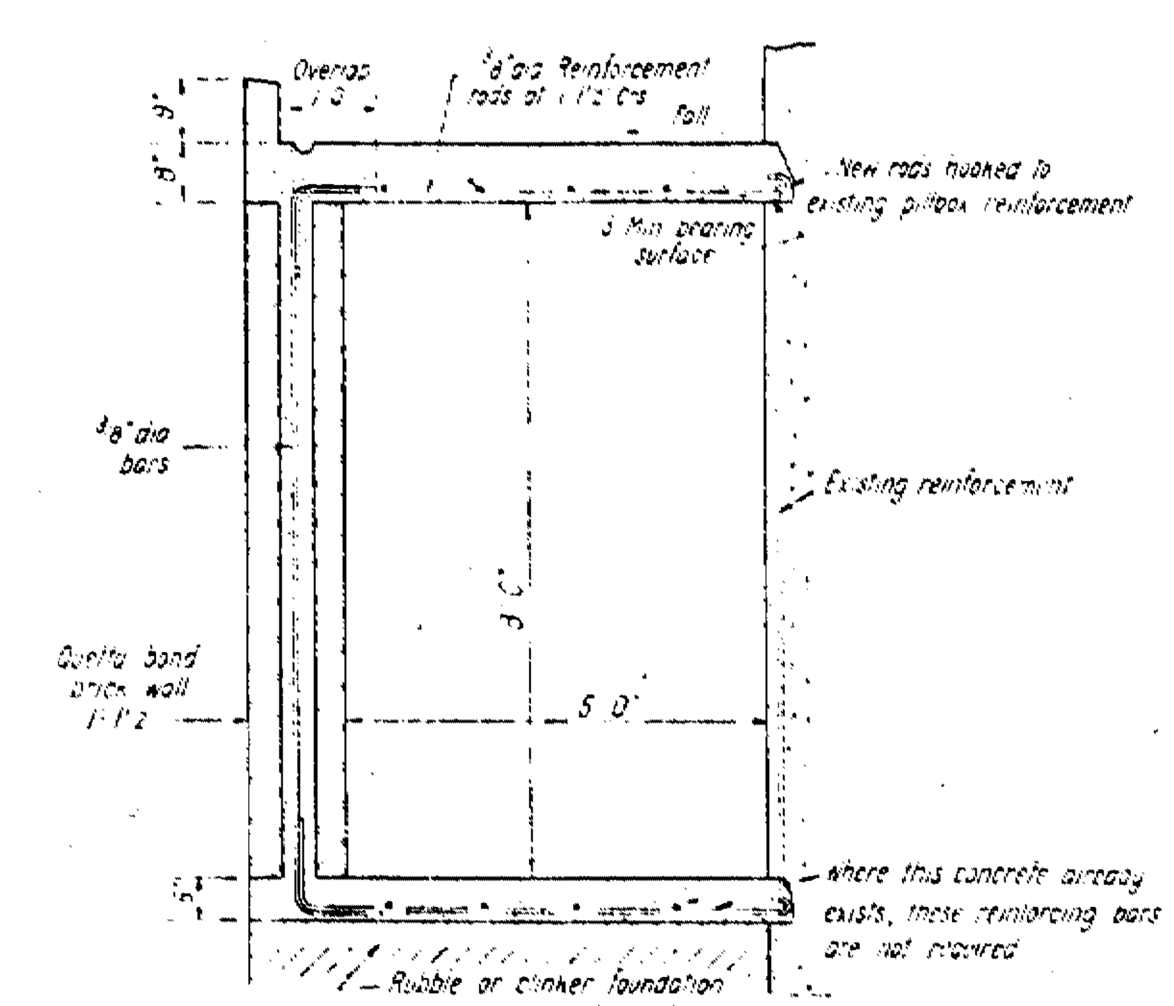
NOTE All timber doors have already been ordered



SITE PLAN



SECTION C.C.



SECTION A A

6970

Alliance House, Caxton Street, Westminster, S.W.1
21st April 1943

HOME OFFICE TUNNEL SHELTERS

CAMDEN TOWN – BUCK STREET

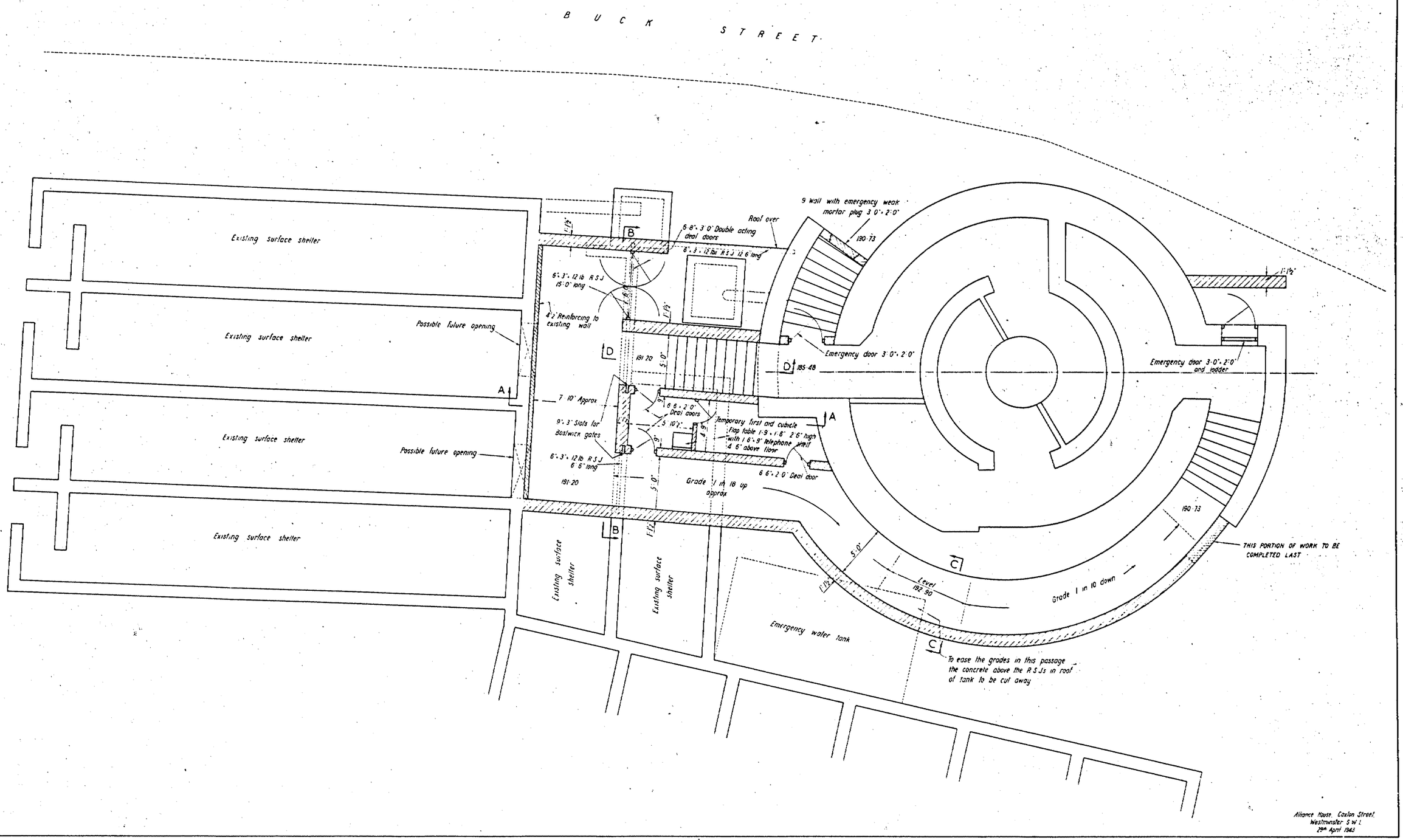
ADDITIONAL TRAFFIC PROTECTION AT SHAFT CAP – PLAN.

SCALE ¼" TO 1 FOOT

H.O.S. 201.

For roof plan and sections see Drg N° H.O.S 205

All 6'6" × 2'0" doors have been ordered



6930

Alliance House, Caxton Street, Westminster S W 1.
29th April 1943

FRAME No. 9

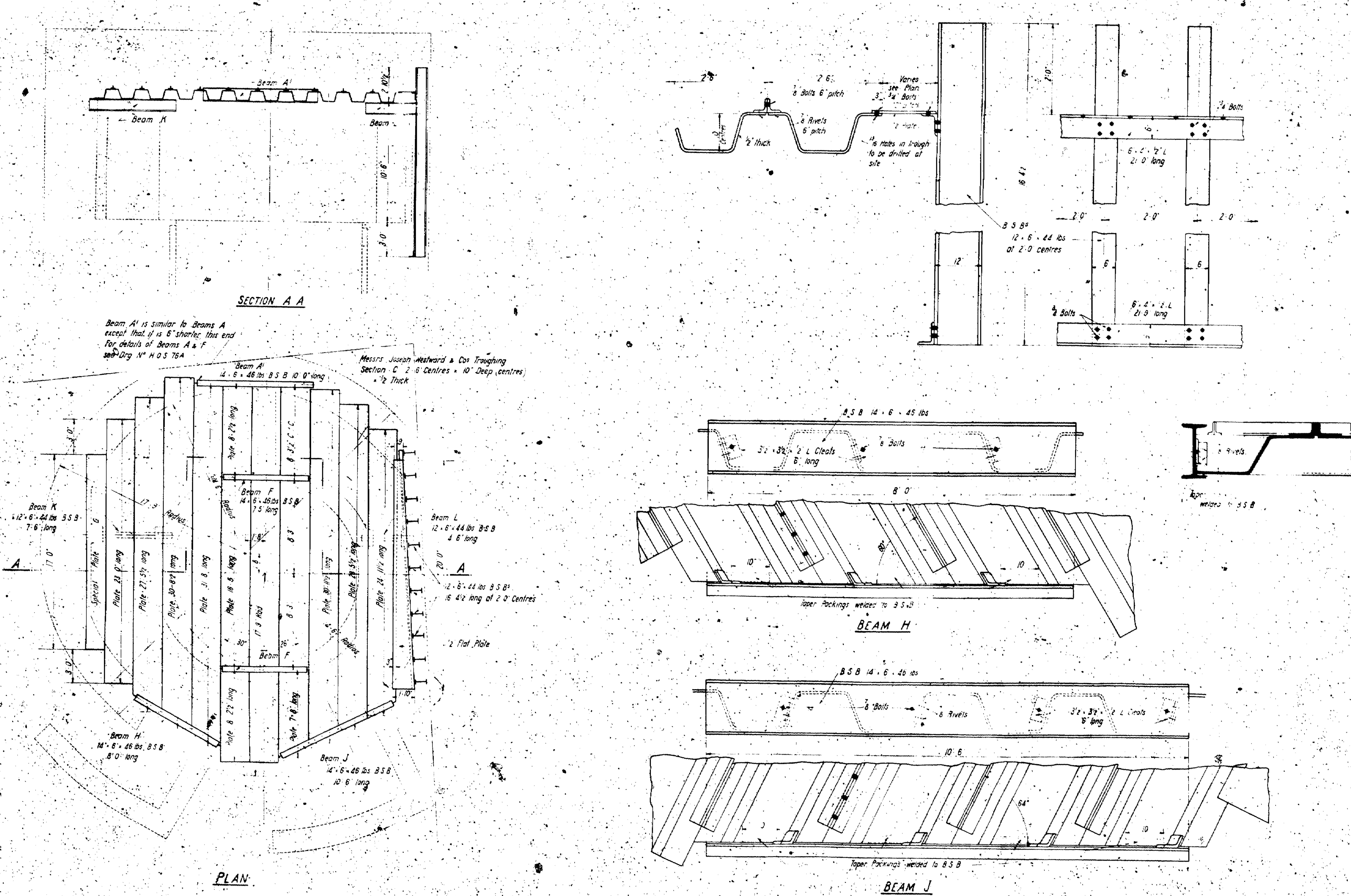
HOME OFFICE SHELTER TUNNELS

H.O.S. 103.

CAMDEN TOWN

ALTERATION TO TROUGHING FOR TOP OF UNDERHILL STREET SHAFT

SCALES ¼ INCH & 1 INCH TO 1 FOOT



6380

HOME OFFICE SHELTER TUNNELS

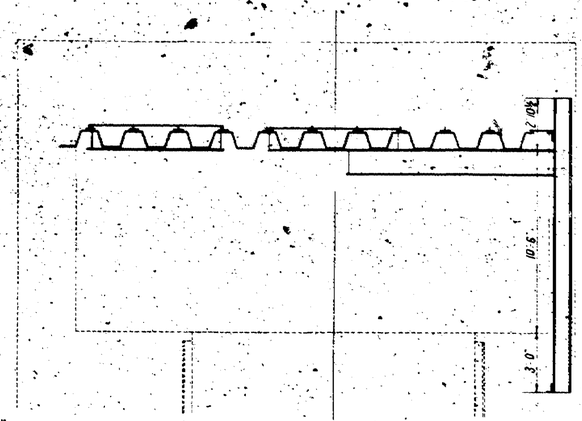
CAMDEN TOWN

STEELWORK FOR TOP OF UNDERHILL STREET SHAFT.

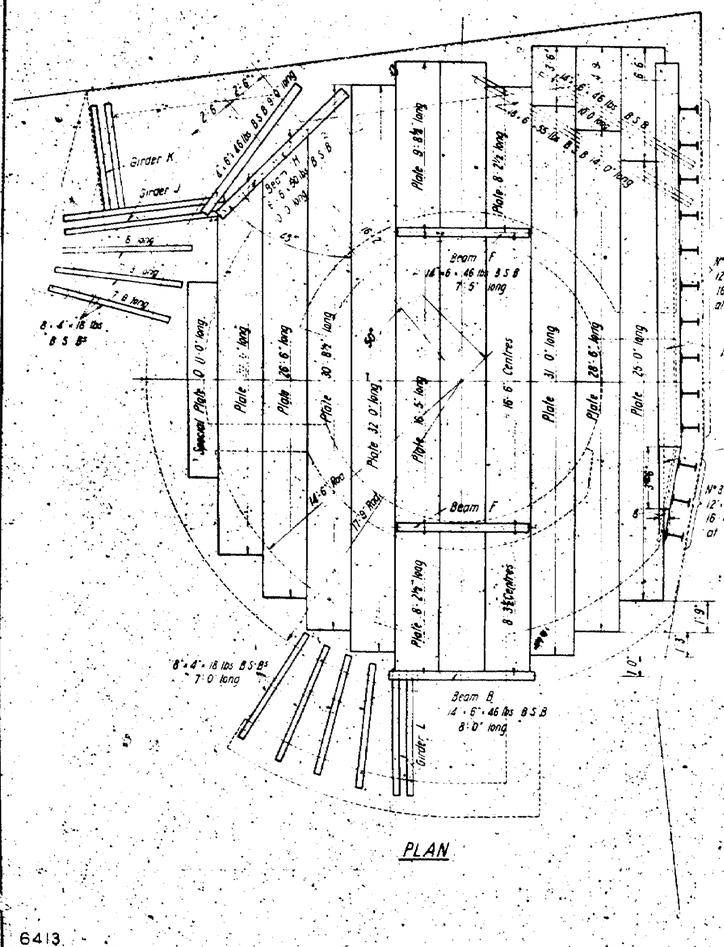
SCALES ¼" & 1" TO 1'-0"

H.O.S. 114.

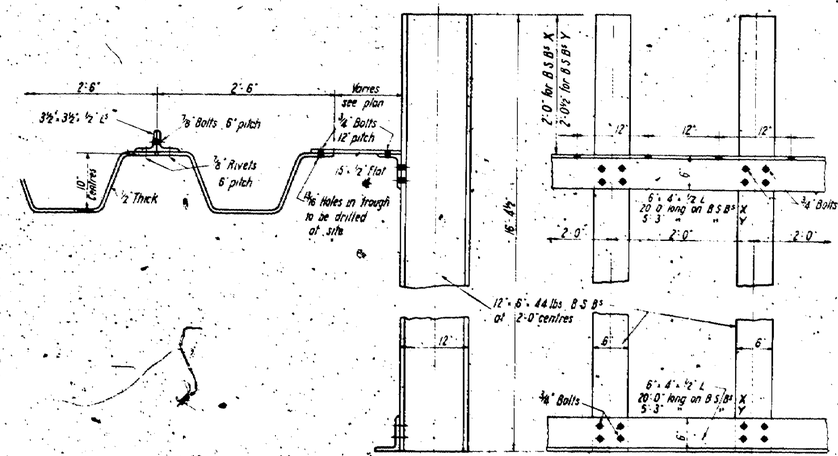
THIS DRAWING SUPERSEDES H.O.S. 103

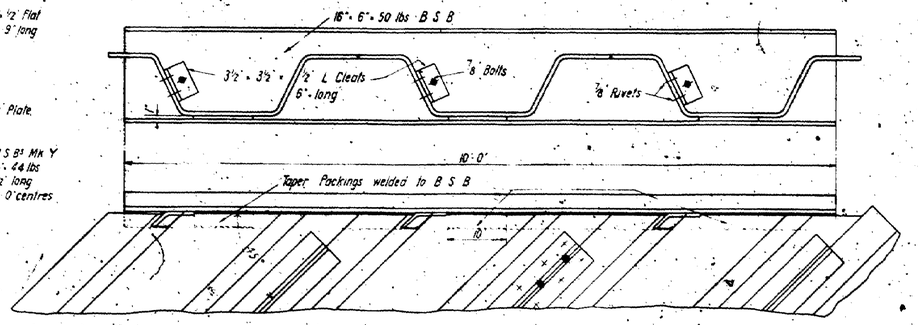


SECTION A A

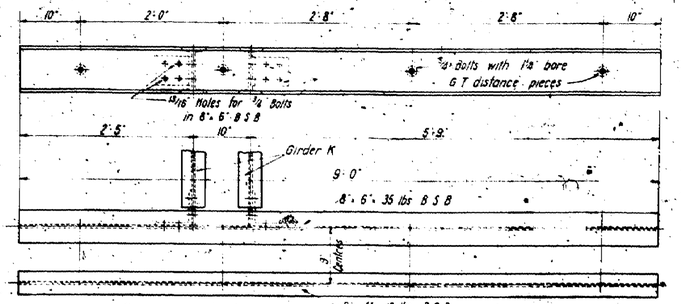


PLAN

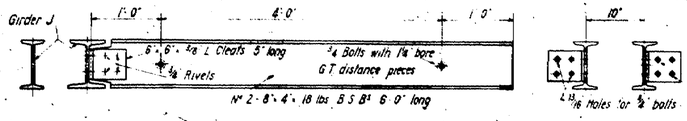




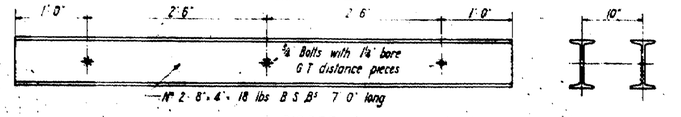
BEAM H



GIRDER J



GIRDER K



GIRDER L

6413

Alliance House Cox's Street Westminster S.W.1.
April 7th 1942

APPENDIX D

Historical maps

CGL

Site Details:

251 - 259 CAMDEN HIGH STREET, LONDON

Client Ref: 3305
Report Ref: CGL01-3018882
Grid Ref: 528796, 184020

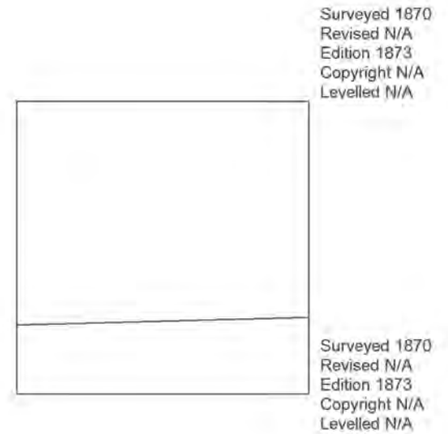
Map Name: 1056 Scale Town Plan

Map date: **1873**

Scale: 1:1,056

Printed at: 1:1,056

N
W E
S



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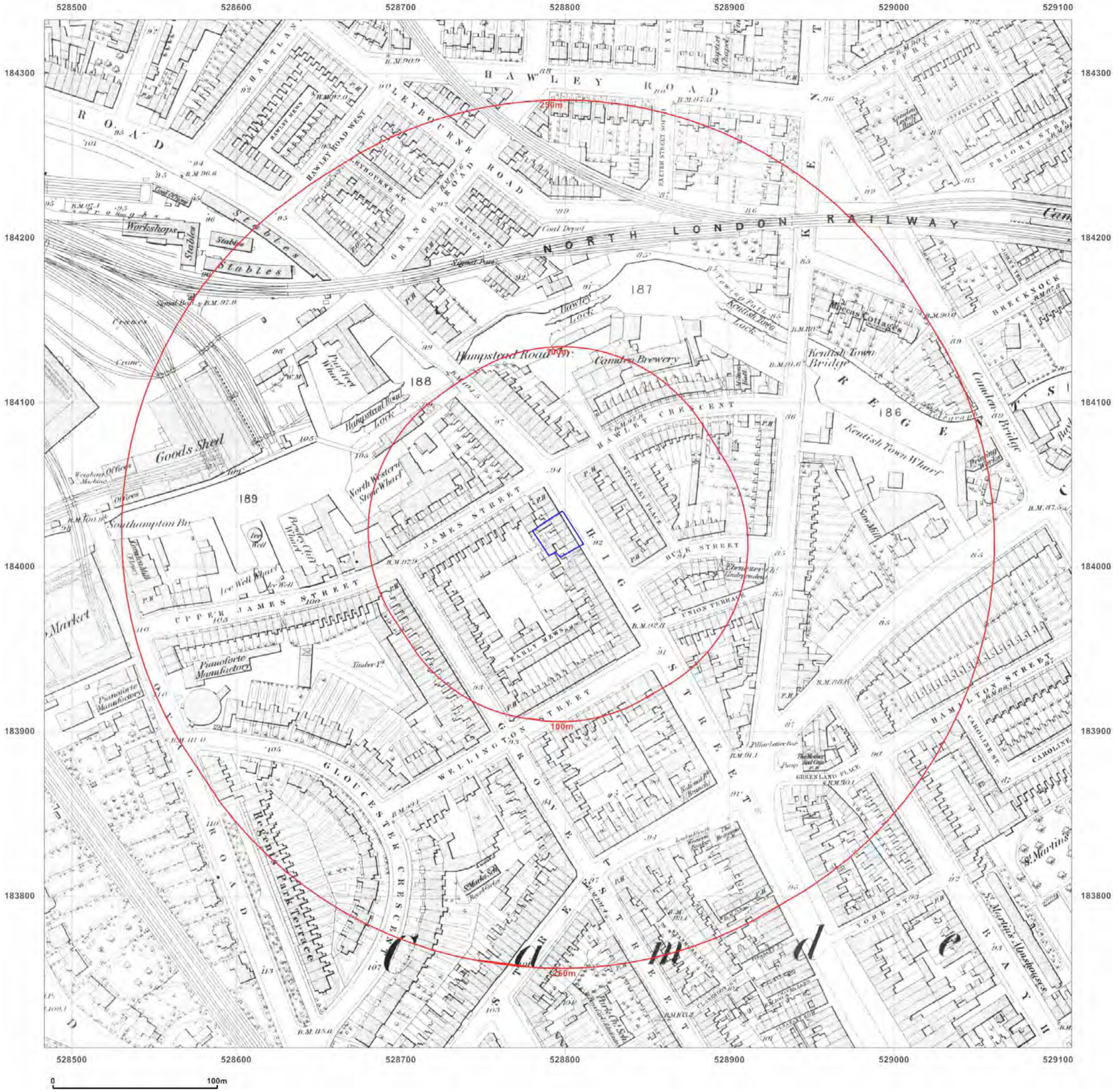

CGL

Site Details:

251 - 259 CAMDEN HIGH STREET, LONDON

Client Ref: 3305
Report Ref: CGL01-3018882
Grid Ref: 528796, 184020

Map Name: County Series

Map date: **1879**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
S

Surveyed 1870
Revised N/A
Edition 1879
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Levelled N/A

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