

AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Engineers

Item number: 14/21/41 Part 2

Title: 2nd Field Company, Australian
Engineers

18 - 29 - May 1918



AWM4-14/21/41PART2

CONTENTS.

No.	Reference.
1	<u>TRENCH SYSTEM.</u>
	a. "B" Line.
	b. "C" Line.
	c. "D" Line.
	d. M. G. Positions.
	e. /aBorre Defences.
	b. " " M. G. Positions.
	f. Borre Switch.
	g. Pradelles Defences.
1B.	Letter to C.E.E. 1st Aust. Div. re Improvements to Trenches 2nd Zone.
111.	Drainage of Trenches with levels & sketches.
IV.	Working Parties.
V.	Artillery Gaps & Knife rests.
VI.	Notice Boards.
VII.	Demolition of Bridges.
VIII.	Road mines.
IX.	Preparation of Demolition schemes for Road and Artillery Bridges "Borre Beeque".
X.	Mines in 2nd Zone.
XI.	List of Special memoranda, sketches and plans handed over.
XII.	List of Aeroplane Maps handed over.
XIII.	Lists of Tools and R.E. Stores handed over.
IX.	Locations.

-----000000000-----

Location from W 19 d 6.9. to

Folio 1a)

E 2 a.4.4.

TRENCHES.

The trench is now practically continuous throughout its length i.e. 4'6" of cover, except that there is a break from W 19 d.6.3. to W.19.d.8.4. which is to follow the trace indicated on attached map.
The trench requires thickening and raising of parapet in the vicinity of W 26 c.

PARADOS.

There is little done on the parados.

WIRE.

2 Fences of double apron throughout, but aprons require thickening eventually.
Tactical wire is to be put out 600 - 700 yards when wire is available.

DRAINAGE.

From W.19.d.8.5. to the Left, the drainage has been improved. From W.19.d.8.2. to the right drainage is very difficult. Levels have been taken. Drainage as suggested in Appendix 1.

FURTHER DEVELOPEMENT.

See memorandum (attached) to C.R.E. as suggested developement.

WORKING PARTIES.

The following working parties were used.-

Sappers - 1 section of Field Co.
Infantry - 150 to 175 men from Support Brigade.
From 7.30 a.m. on the work to do a five hours task.
A night party of 10 Sappers and 180 men (Infantry) were used on night of 25th-26th inst., with good results.
Rendezvous. W 25.b.7.9.

"C" LINE.

Folio (b)

Locations from W.8.c.89

to V.30.d.4.2.

TRENCHES.

The trench is now practically complete throughout its length i.e. 4'6" of cover. Very small amount of thickening at W.19.b and trench in railway at W.8.c.8.9.

PARADOS.

There is little done on the parados.

WIRE. One

One fence of double apron complete. Second fence 35 yards in front of first fence as shewn on trench map. No. tactical wire exists.

DRAINAGE.

Good. Local drainage has been improved and only a small amount of improvement is necessary.

DEVELOPEMENT OF TRENCH.

See memo to C.E.E., 1st. Aust. Div. on this.

WORKING PARTIES.

1. South of Borre - Hazebrouck Road.
Sappers 1 Section of Field Co.
Infantry 100 men.
Rendezvous. V30b.9.8.
2. North of Borre. Hazebrouck Road.
Sappers 1 Section of Field Company
Infantry 150 men
Rendezvous. W.13.b.4.2.

20

"D" LINE.

Folio (c)

Location from V.17.a.0.9
to V.30c.36

---000---

TRENCHES. Trenches are continuous throughout, except road and railway crossing. Cover of 4'6", and on South end 6'. Parapet needs improving on both sides of the Railway at V.29.b.

WIRE. One fence throughout (including a fence of low medium pickets) from V.29.b.6.5. to V.30.d.5.5. The Second fence has been started and about 300 yards have been completed. See attached Map.

DRAINAGE. Generally is good, except at South end from V.29.b.6.5. to V.30.d.5.5., which should be drained (see Appendix 1.) and duckboarded.

M.G. POSITIONS Appendix 111. gives the state of the work. Further improvements may still be made in the camouflaging and draining of positions. M.G. Battalion might be warned that camouflaging be disturbed as little as possible to prevent position being identified. Notice boards on order see Appendix 11.

AMMUNITION RECESSES. Six boxes are on order at Div. R.E. Oark, and are to be placed in the trench system.

NOTICE BOARDS. See Appendix 11.

<u>WORKING PARTIES.</u>	Party.	1 Sapper 12 Infantry.
	Location of work	V.29.b.5.5.
	Rendezvous.	V. 30. b.9.8.
	Party.	2 Sappers, 24 Infantry.
	Location of work	Wiring V.17.d.
	Rendezvous	V.17.a.4.6.

1. OUTER DEFENCE. Practically completed to a depth of 4'6"., except that a parapet has to be made so that the trench can be used to fire into BORRE itself.

2. INNER DEFENCE. Trenches are complete, except that trenches are to be arranged as above.

WIRE One fence of Double Apron is practically complete except,-

1. That it may be required to have a wire between the village and the trenches.

2. on the North side of the village W 19.a.&b.

HOUSE DEFENCE. Protected Lewis gun positions, as Appendix IV. Splinter proof accommodation for 2 men provided at each position.

NOTICE BOARDS. See Appendix 11.

SHELTERS. Cellars have been improved at.-

W 19.d.30.87
W.19.d.35.50

for Coy. H. Q's. of village defences.

WORKING PARTY. One Section Field Company.
150 Infantry from Nucleus Battalion.

REPORT OF STATE OF WORK. VICKERS M.G. POSITIONS, SUPPORT. (2nd Zone) 1st Aust. Div.

27th May 1918.

Location.	Line.	Name.	If shelter erected & revetted.	Accommodation of shelter	If Ammn. recess.	If dry	If occupied.	If in trench System	If revetted Platform only.
E.2.a.5.3.	"B" Line	1.E.2	Yes	2 men	Yes	Drain. Yes.	Yes	No.	Yes
E.2.a.20.45	"	2 E 2	"	2 "		"	"	No.	
W.19.d.9.4.	"	1 W 19	"	4 "		"	"	"	
W.20.o.52.43	"	1.W 20	"	2 "		"	"	"	
W.20.o.75.70	"	2W 20	"	2 "		Drain. Yes	"	"	
W.20.a.78.10	"	3 W 20	"	2 "		Sump "	"	No.	
W.14.o.9.6.	"	1 W 14	"	2 "		"	"	Yes	
W.14.b.90.15	"	2 W 14	"	2 "		Drain. Yes	"	Yes.	
W.14.b.05.35	"	3 W 14	"	2 "		"	No.	"	
W.15.o.50.95	"	1 W 9	"	2 "		"	Yes	No.	
W.9.o.85.90	"	4 W 9	"	2 "		Sump Yes	"	(In switch)	
W.9.d.1.9.	"	3 W 9	"	2 "		Drain Yes	"	Yes	
W.9.o.5.4.	"	2 W 9	"	2 "		Sump. Yes	"	No.	
E.1.a.5.8.	North side of Railway	1 E 2	"	2 men	Yes	Yes	No.	No.	
E.1.a.58.65	South side of Railway.	1 E 1	"	2 "	"	"	No.	No	
V.30.d.88.05	"C" Line	1 V 30	"	4 men	"	"	Yes	No.	Yes.

Appendix 18.

74.

Report of state of work. Vickers M.G. positions, Support (2nd Zone) 1st. Aust Div. (cont)

27.5.18.

Location.	Line. Name	If shelter erected & revetted	Accommodation of shelter	- 2 - If Ammn. recess.	If Dry.	If occupied	If in trench system	If revetted Platform only
W.19.d.26.42	"C" Line 1 W 19	Yes	2 men	Yes	Yes	Yes	Yes	
W.19.o.5.6.	" 2 W 19	"	2 "		"	"	"	Yes
W.13.d.1.2	" 1 W 13	"	2 "	Store	"	"	No.	
W.13.o.20.25	" 2 W 13	"	4 "	In progress	"	"	No.	
W.13.d.12.40	" 3 W 13	"	4 "	Yes	"	Yes	Yes	
W.13.d.58.95	" 4 W 13	"	4 "	"	"	"	No.	
W.13.b.75.90	" 5.W.13	"	4 "	Store Not complete	"	"	Yes	
W.8.o.42.38 & W.8.o.45.45	" 1 W 8	"		Yes	"	No.	Yes.	No.
W.8.d.65.62	" 2 W 8	"		"	"	No.	No.	Yes
W.8.d.67.73	" 3 W 8	"		In progress	"	No.	No.	Yes
V.17.d.50.18	"B" Line 1 V 17	"	2 men	No.	"	No.	"	Yes
V.23b.80.12	" 1 V 23	"	2 "	"	"	"	"	No.
V.24.o.17.98	" 3 v 24	"	4 "	"	"	Yes	"	Yes
V.24.o.70.95	" 2 V 24	"	2 "	"	"	"	"	"
V.24.o.42.23	" 1 V 24	"	2 "	"	"	No	"	No.
V.24.b.5.4.	" 4 V 24	"	2 "	"	"	"	"	"
V.30.o.55.50	" MG 60	"	2 "	"	"	No.	No.	

attached. 18.
43

BORRE SWITCH.

Folio.(f)

appendix 18.

Location from W.14.d.60.05
to W.25a. 05.40

TRENCHES. Breastwork through-out.
Isolated two fire bay Strong Points dug which are to be completed and joined up.

WIRE. No wire exists.

DRAINAGE. Field drains can be utilized if Breastwork only is used

WORKING PARTIES.
5 Sappers
60 Infantry
Rendezvous at W.25b.25.85

Night Work.- Party of 10 Sappers and 120 Infantry were used on night 25th - 26th inst., with good results.

20

PRADELLES DEFENCES.

Folio No (g)

appendix. 18.

TRENCHES. Isolated posts which are to be linked up.

WIRE. Hedges to be wired as shewn on map. Pradelles Defences, nearly completed.

HOUSE DEFENCES. Houses at W.21 c 20.85
W 21 c 45.65
have been put in a state of defence.
It has been suggested that shelters and sheltered loopholes be constructed at.-
W.21.c.25.80
W.21.c.3.8.
W.21.c.20.65

NOTICE BOARDS. None have been ordered for Pradelles yet.

CELLARS. For Cellar accommodation in village see Appendix VI.

WORKING PARTIES. 3 Sappers,
50 Infantry from Nucleus Battalion.

REPORT OF STATE OF WORK L.G. POSITIONS - BORRE DEFENCES.

Folio. (e) b.

27.5.18.

Location	Name.	If splinter proof over firing positions	Type of shelter provided.	Accommodation of shelter	State of work.
W.20.c.25.75	Borre L.G. 1	Yes.	Cupola in cellar	2 men	Completed
W.20.c.25.75	" " 2	"			
W.20.c.00.80	" " 3	"	Cupola in room	2 "	"
W.29.c.55.95	" " 4	No.	Nil		In first floor preliminary work only complete.
W.19.b.60.25	" " 5	Open emplacement	Only emplacement complete		
W.19.d.30.87	" " 6	Yes.	Cellar in house.	6 men in cellar	Complete
W.19.d.15.80	" " 8	"	Cupola in cellar	2 men	"
"	" " 9	"			
W.19.d.30.60	" " 10	"	Cupola in room	2 men	"
W.19.d.35.45	" " 11	"	Cellar in house strengthened	15 men in cellar	"
do.		(2 Positions)	Cellar in house.	10 men in cellar.	"
W.19.d.25.50	" " 12	Loopholes only provided			
W.19.d.25.50	" " 13	Positions selected, Looholes only provided.			
W.19.c.9.7	" " 14	Loophole only provided	Accommodation can be obtained in strengthened cellar in building.		

Appendix. 18.

76

To.-

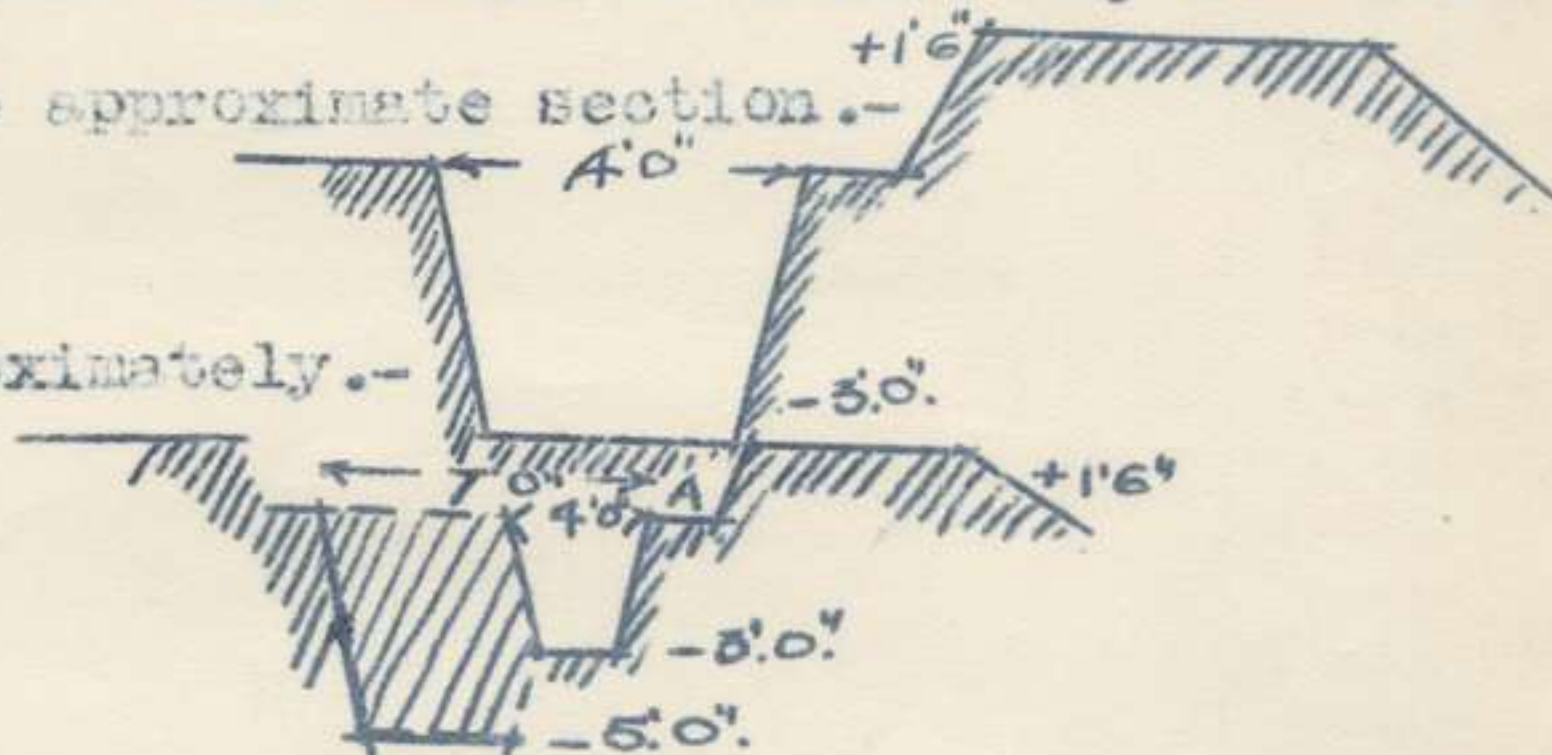
C. R. E.
1st. Aust. Div.E W 81
27.5.18.IMPROVEMENT OF TRENCHES. 2nd ZONE.

Reference the further developement of the trench systems in the 2nd Zone, it is pointed out that owing to the characteristics of the country, it is considered inadvisable to deepen a greater part of the trenches in this Zone.

"B" Line 2nd Zone. It is considered that this line could be deepened to 5', and drained from W.9.d.6.8. to W.14.b.4.5- 6.5 and from W.14.c.95.85 to W.19.d.90.35.

"D" Line, 2nd Zone. The portion of this trench from V.17.a.0.8 to V.23.d.7.0 might be deepened to 5'. Levelling would be required before this could be definitely stated.

The existing trench has the approximate section.-



the final section would be approximately.-

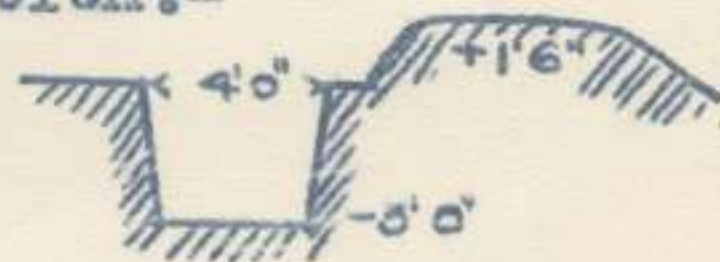
and it would appear that the face A. B. could be revetted previously to any further excavation without prejudice to further developement, provided the pickets are driven into the ground at least 2'.

Types of revettment could be .-

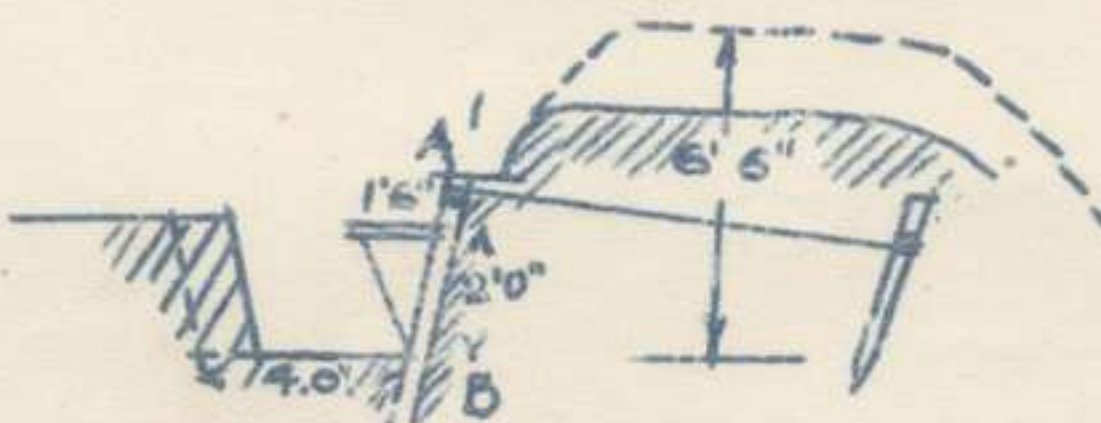
1. Pickets and brushwood from bundles of fascines
2. Pickets and wire netting.
3. Pickets and expanded metal frames.

both need a large amount of Engineer supervision.

With regard to the whole of "C" Line, and the portion of "B" Line not included, and the portion of "D" Line not included in above, the existing trench has the approximate section.-



The final section would be approximately.-



It is thought that on account of drainage difficulties trench should not be deepened if a dry trench is to be provided, and it would appear that the face A. B. can be revetted forthwith without prejudice to further improvements.

1. It is submitted that revetting of fire bays might be started forthwith in the three lines "B", "C" and "D", at points that

points that/
it is considered by Infantry Commanders are of special importance.

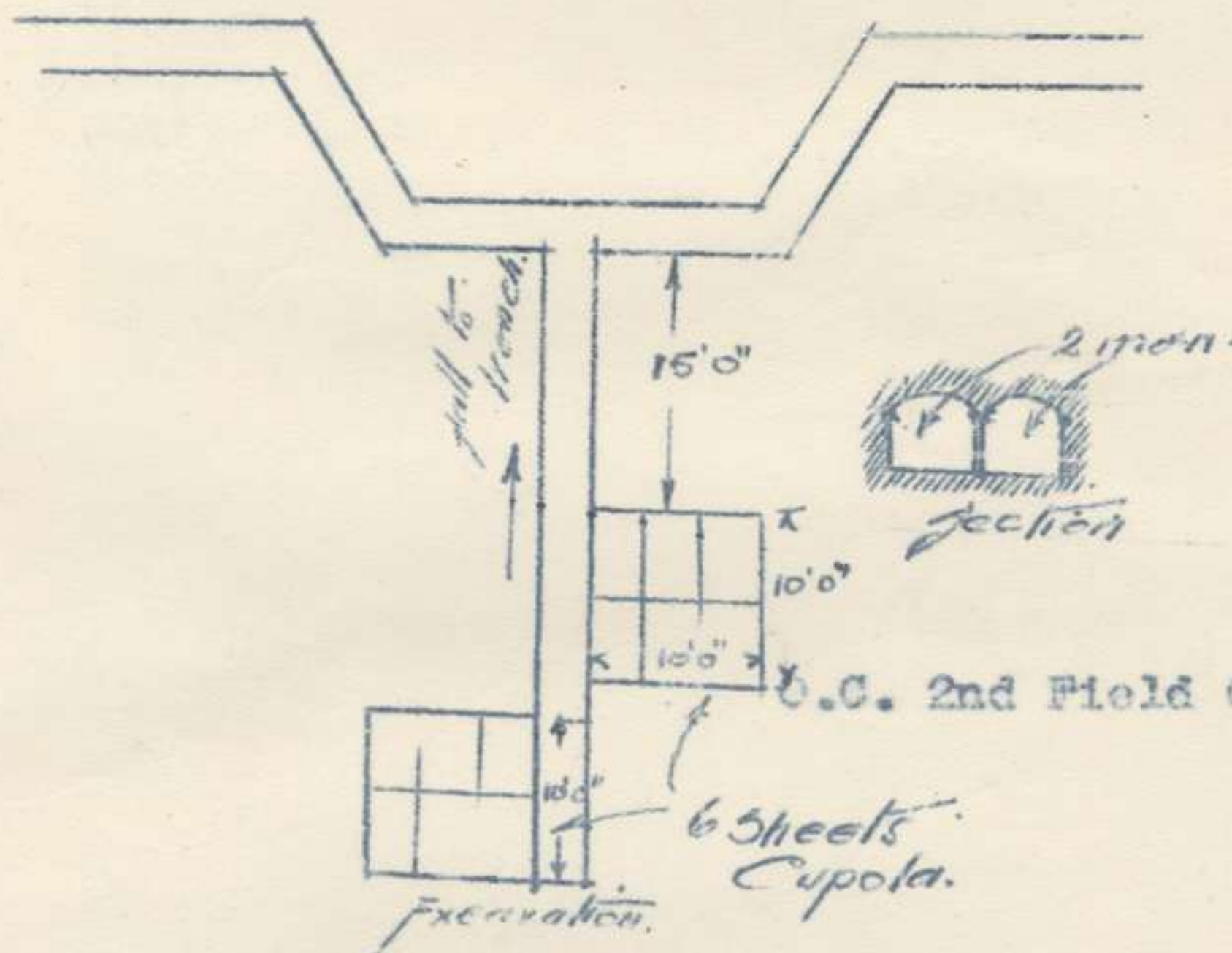
2. The improvement of the trench section as shown in above sketches.
3. The improvement of the balance of the trench.

TRENCH SHELTERS.

There is at present a great tendency on the part of the Infantry to place shelters in the trench itself preventing inter communication and confines all traffic to over the top.

It is submitted that the following might be considered.-

At the back of each traverse, dig a trench (might eventually become part of Communication trench) and improve shelter for eight men thus.



Major.

O.C. 2nd Field Co. Engrs.

DRAINAGE of "B" & "D" LINE.

appendix 18.

Attached are levels connecting outfalls and trench levels.

"B" LINE.

The first line of drain to be completed is drain, N. O. P. H. J.
Side drain from this drain to trench system.

North of this the drain G.P.O. should be developed.

Trench levels indicate most of the water can be got away by
grading trench.

General fall of country South & West.

"D" LINE.

The first drain to be completed is drain T. K. B. C. J.

Then drains from C Westwards,
W South West.
X. K.
E. D. C.
F. J.
G. South West.

and grading of trench towards these drains.

General fall of country is South & West.

LEVELS.

appendix 18, 80

25th May 1918.

"B" LINE.

DATUM LEVEL at Culvert "J"	98.23	(Water level)
B.M.(1) Post of Footbridge at Junction of "B" Line & Railway.	100.00 <u>98.23</u>	- - 1.77
Water level at Footbridge	99.25 <u>98.23</u>	- - 1.02
Bottom of Trench at "A"	98.05 <u>98.23</u>	- - .18
do S.P.1E2	97.85 <u>98.23</u>	- - .38
Turningpoint on S.P.1E2	104.06 <u>98.23</u>	- - 5.83
Bottom of Trench at "B"	99.31 <u>98.23</u>	- - 1.08
W.L. in drain between "B" & "C"	98.31 <u>98.23</u>	- - .08
Bottom of trench at "C"	98.76 <u>98.23</u>	- - .53
do. S.P.2E2	100.81 <u>98.23</u>	- - 2.58
Turning point on S.P.2E2	104.84 <u>98.23</u>	- - 6.61
Bottom of Trench at "D"	100.09 <u>98.23</u>	- - 1.86
L.P. "E" on road	103.25 <u>98.23</u>	- - 5.02
On peg "F"	100.41 <u>98.23</u>	- - 2.18
W.L. at "G"	99.29 <u>98.23</u>	- - 1.06
B.M. "H" on culvert	100.80 <u>98.23</u>	- - 2.57
W.L. at Culvert "J"	98.23	- - 0.00
B.M. parapet of Culvert "J"	104.92 <u>98.23</u>	- - 6.69

20

LEVELS. (cont)

appendix 18.

25th May 1918.

81

"B" Line. (cont)

DATUM LEVEL at Culvert "J".....98.23. (Water level)

Bottom of Trench at "K"	100.31 <u>98.23</u>	-	-	2.08
Bottom of drain "L"	101.89 <u>98.23</u>	-	-	3.66
W.L. in drain at "M"	101.04 <u>98.23</u>	-	-	2.81
do "N"	101.43 <u>98.23</u>	-	-	3.20
do. "O"	100.83 <u>98.23</u>	-	-	2.60
do. "P"	100.49 <u>98.23</u>	-	-	2.36
W.L. at culvert "Q"	98.52 <u>98.23</u>	-	-	.29
B.M. on masonry of culvert "Q"	102.45 <u>98.23</u>	-	-	4.22
W.L. in drain at "R"	99.13 <u>98.23</u>	-	-	.90
B.M. on frog at Crossing at "S"	108.02 <u>98.23</u>	-	-	9.79

20

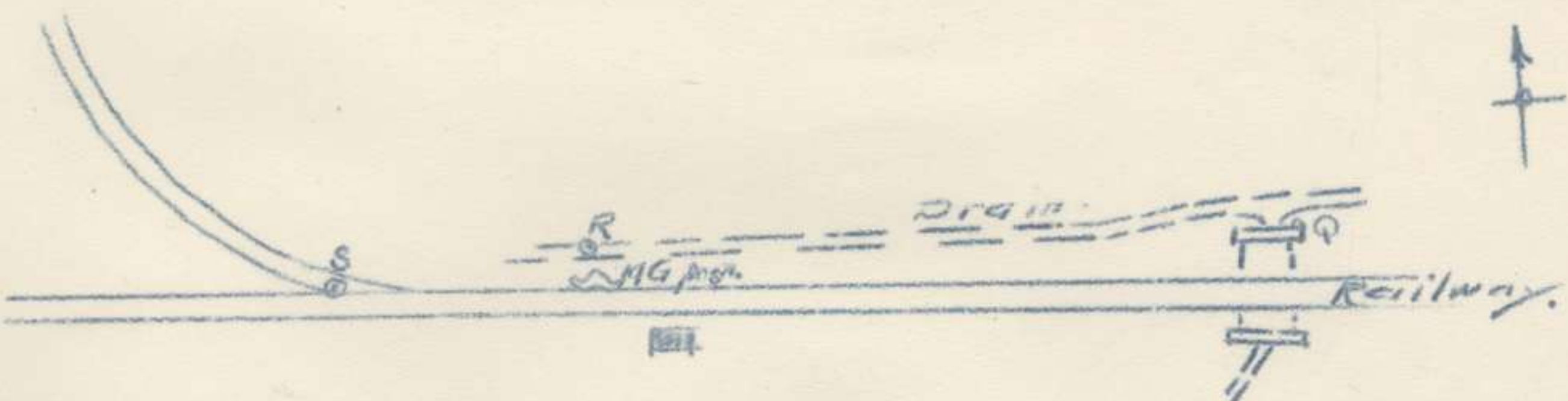
82.

appendix 18.

LEVELS.

56

"B" Line.



"B" LINE.

Sketch showing position
of levels. Taken at "B" line, 2nd zone.
26/5/2.

32. Railway.

SHEET. N^o 27.

83
abheudlit. 18.

70

LEVELS.

appendix 18. 8A
25th May 1918.

"D" LINE.

DATUM LEVEL at culvert "T" 46.90 (Water level)

B.M. on masonry culvert "T"	50.00 <u>46.90</u>	-	-	3.10
W.L. at Culvert "T"	<u>46.90</u>	-	-	0.00
Bottom of trench at SPV130	47.60 <u>46.90</u>	-	-	.70
W.L. in Drain at "U"	47.05 <u>46.90</u>	-	-	.15
Bottom of trench at "V"	48.01 <u>46.90</u>	-	-	1.11
do 1.	47.74 <u>46.90</u>	-	-	.84
do 2.	48.04 <u>46.90</u>	-	-	1.14
do 3.	47.09 <u>46.90</u>	-	-	.19 (about 1' of water in trench)
do 4.	48.11 <u>46.90</u>	-	-	1.21
do 5	48.47 <u>46.90</u>	-	-	1.57
do 6	47.34 <u>46.90</u>	-	-	.44 (about 6' of water in trench)
W.L. in drain at "W"	47.46 <u>46.90</u>	-	-	.56
Bottom of Trench at 7	49.13 <u>46.90</u>	-	-	2.23
do 8	48.43 <u>46.90</u>	-	-	1.53
do 9	48.34 <u>46.90</u>	-	-	1.44
do . drain at "X"	47.62 <u>46.90</u>	-	-	.72
Bottom of Trench at "Y" (S.P. 1.V.29)	48.80 <u>46.90</u>	-	-	1.90
W.L. of drain at "Z"	47.28 <u>46.90</u>	-	-	.38
Bottom of trench at "A"	49.01 <u>46.90</u>	-	-	2.11
W.L. at "B" (in drain)	47.52 <u>46.90</u>	-	-	.62
B.M. corner of brick pier of Railway Bridge	49.31 <u>46.90</u>	-	-	2.41

70
LEVELS.

(cont)

appendix 18.

85

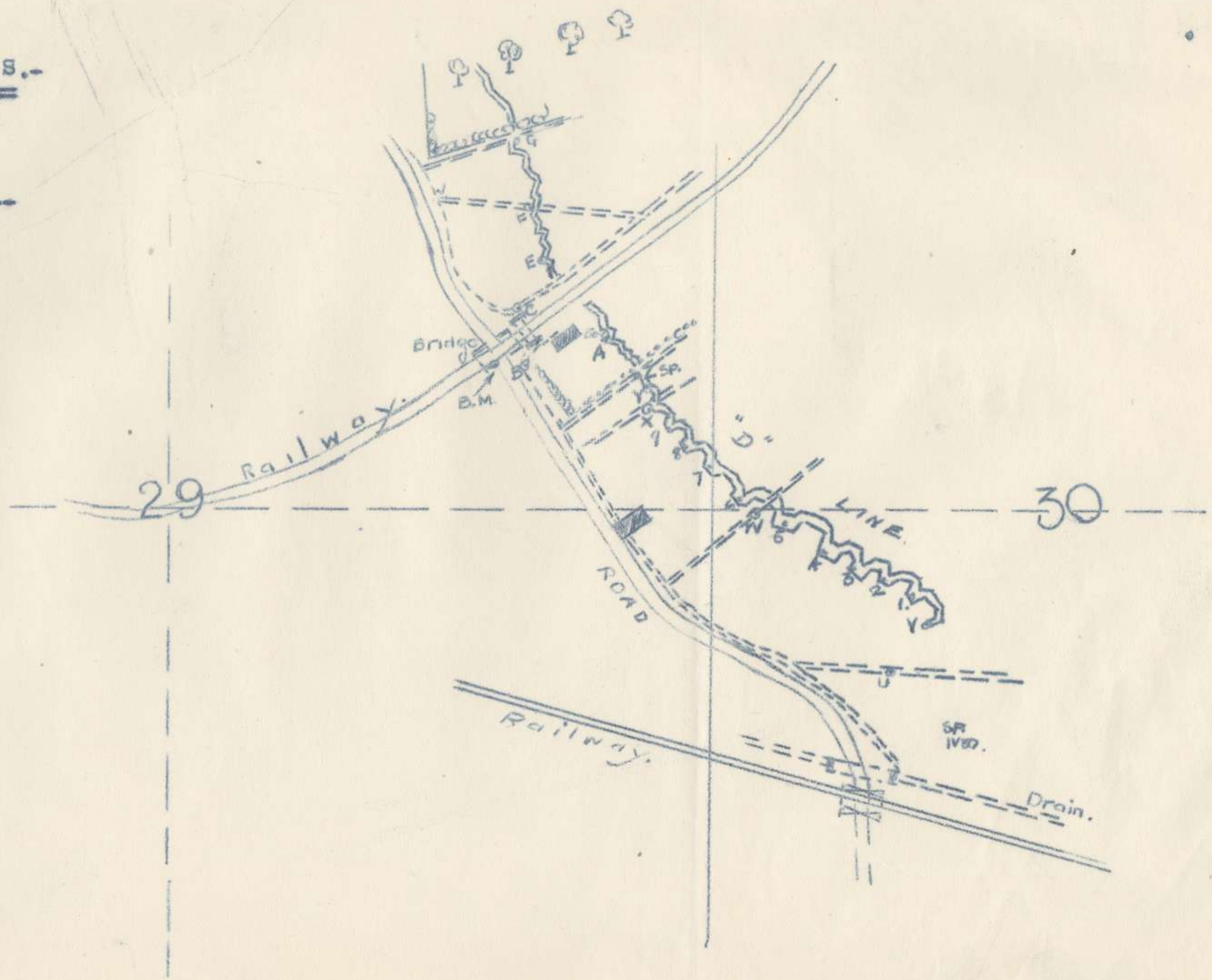
25th May 1918.

"D" LINE (cont)

DATUM LEVEL at Culvert "T"	46.90	(Water level)		
W.L. at Culvert "C"	47.61 <u>46.90</u>	-	-	.71
B.M. on masonry of Culvert "C"	49.68 <u>46.90</u>	-	-	2.78
W.L. in drain at "D"	50.24 <u>46.90</u>	-	-	3.34
Bottom of trench at "E"	47.86 <u>46.90</u>	-	-	.96
Bottom of drain at "F"	48.01 <u>46.90</u>	-	-	1.11
W.D. of drain at "G"	47.78 <u>46.90</u>	-	-	.88
Bottom of Trench at "H"	49.69 <u>46.90</u>	-	-	2.79
W.L. of drain at "J"	47.59 <u>46.90</u>	-	-	.69
do "K"	48.71 <u>46.90</u>	-	-	1.81

LEVELS.-
666

"D" LINE.



Appendix 18.
86.

appendix 18.

87

WORKING PARTIES.

It was laid down by SUPPORT BRIGADE that working parties be limited to 12 in each party. Parties to be approximately 100 yards apart.
Task work as far as possible (5 hours)
Parties report at Rendezvous at 7.30 a.m.

R. E. DUMP.

Location

Personnel.- 2 Sappers.

Duties,- . 1. To receive Salvage stores from R.E. Park, STRAZELLE
2. Report Stock daily to Support Field Company for transmission to C.R.E.
3. Issue stores on Engineer or Pioneer Officers signature.

20

appendix. 18.

88

ARTILLERY GAPS.

Appendix V.

Artillery gaps are to be maintained at .-

"B" LINE.

E.2.a.6.9.
W.20.b.5.5.
W.14.d.2.5
W.14.b.2.2
W.14.b.9.8.
W.15.a.5.7.
W.9.d.1.2.
W.9.d.5.8.

"C" LINE.

V.30.b.8.1.
V.19.c.0.6.
W.19.a.1.7.
W.13.d.1.8.
W.13.b.8.5.
W8.b.6.6.

and notice boards "GAP" to be placed. Practically all are placed.

Attached 1/5,000 map indicates their position.

KNIFE RESTS.

Knife rests are to be provided at all gaps in system ready to be thrown across as required.

NOTICE BOARDS TO BE PLACED.

appendix 18.

Lettering	Date Ordered.	From	For.	Location.
L. G 1 to L G 14	24.5.18	C.R.E.	Lewis Gun positions	Borre Section (Appendix IV)
Overland Track Plan A (4) " B & C (4) D (4)	21.5.18	"	Defence Scheme	To be placed under Support Brigade arrangements.
Engineer Rendezvous (6)		At. Support F. Co. Billets.	Support Field Company	To guide working parties.
"D" Line (4) Army Line (2)	24.5.18.	C.R.E.	"D" Line & Army Line.	On trench systems in V.17.a.
"B" Line. 1E2/2E2 (2) 1W19 (1) 1/3W20 (3) 1/3W14 (3) 1/4W9 (4)		C.R.E.	"B" LINE	As per Appendix- Trench System 1 (a)
1 V 30 (1)		"	"C" Line	do
1E1/2. (2)			Railway	do.
1/2W19 (2) 1/5W13 (5) 1/3W8 (3)		"	"C" Line	do.
1V17 (1) 1V23 (1) 1/4V24 (4) M.G. 60 (1)		"	"D" Line.	do.

20

appendix 18.90

BRIDGE DEMOLITION.

APPENDIX VII.

Two Sappers are provided to maintain charges, and it was proposed that two Sappers for each bridge should be conversant with the demolition, so that they could take their position in case of an alarm "PREPARE TO DEMOLISH".

It was proposed to have charges, fuse, detonators & primers complete on site when suitable water proof containers could be made.

ROAD MINES.

Appendix VIII.

Orders for "PREPARE" and "DEMOLISH" it is understood, will be issued by the Support Brigade. No written instructions have yet been received.

Sapper personnel are stationed at each mine, and an N.C.O. who could act as Liaison with Brigade is in charge of the road mines.

Infantry guards with orders .-

- (1) To prevent any unauthorised interference with charges or shafts.
- (11) To assist Sapper personnel in any upkeep work
- (111) To assist Sapper personnel as required to place and tamp charges.

have been demanded, the only existing one is as shewn on Appendix VII.

20

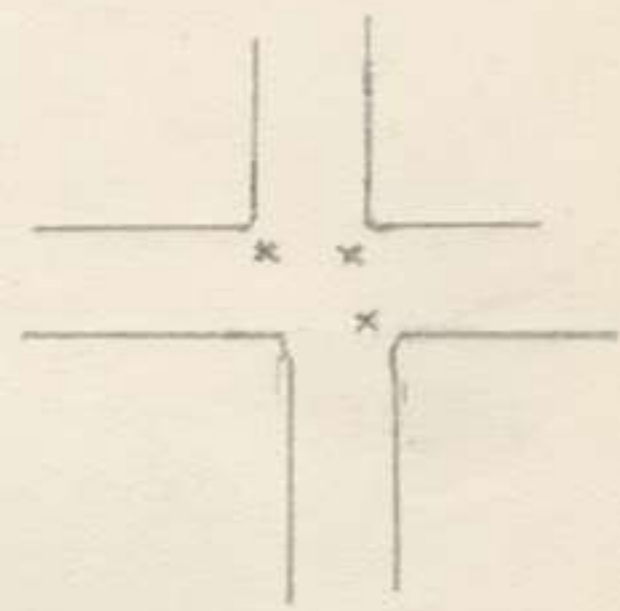
Appendix 18. 91

DI

MINES - ROADS.

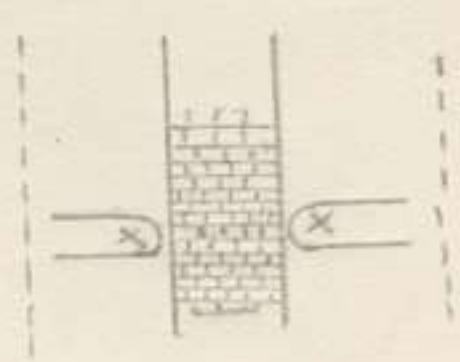
Cross Roads at E. 8 c.6.6.

Mines at crosses as persketch.
Each mine has three cases of guncotton and
is to be fired with fuze.



D.24.c.2.9.

Road is mined as per sketch.
There are two boxes of guncotton on one side
and three on the other.
To be fired with fuze.



PREPARATION OF DEMOLITION SCHEME'S - ROAD BRIDGES AND ARTILLERY BRIDGES "BORRE BECQUE"

Location	Type of Bridge	Type of demolition proposed	Amount of charge	Location of charge	Location of fuse &c.	In charge.
V.24.c.3.9.	Plate girders Brick arched decking Brick abutments	2 Shafts dug. 8' deep, 6' from abutment face. Proposal is to blow on enemy side electrically. Additional gun cotton charges to be placed in steel girders.	100 lbs. Ammonal in each shaft 200 lbs. in all	In N. Bank just W. of Bridge	House. V.23.d.7.7	Sapper Preston.
V.30.c.7.7	Timber bridge 1 Timber trestle	Demolish Timber piers Propose Tarring superstructure and provide petrol to burn superstructure	100 lbs. Sabulite distributed around piers.	On site	do	do
V.24.c.2.7	Timber bridge 2 Trestles.	do	do	do	do	do
V.24.c.0.4	Timber Bridge 1 Trestle.	do.	do.	do.	do.	do.
V.18.c.2.8.	do	do	do	House at V.23.d.7.7	do	do
V.17.d.90.65	do	do	do	do	do	do
V.11.c.7.2.	Brick culvert	Demolish at crown.	50 lbs. Ammonal	In position	do	do
V.18.c.2.8.	Footbridge	Not yet prepared.				
V.24.c.0.4.	do	do				
V.18.c.7.6.	Brick culvert	do				
V.18.a.2.6.	do	do				
V.18.a.1.3.	Sleeper & 5 rail bridge	Slab of gun cotton on each rail and Timber to be burnt.	5 lbs. Gun cotton	In position	do	do

Appendix 18.93

MINES IN SECOND ZONE.

Location of mine.	If charge is.-- laid tamped		Location of charge.	If primer, detonator & fuse is provided.	Amount of charge	Depth of shaft.	State of shaft.	Sapper responsible	If Inf. guard provided	Road to be blocked
E.3.d.2.7	No.	No.	In house near mine	Yes.	120 lbs. Sabulite	1 hole 7' deep	Dry. Revetted.	Sapper Bower	No.	Petit Sec Bois - Pradelles
W.10.c. 15.25	No.	No.	In cellar of house next mine	Yes.	125 lbs. Ammonal	2 holes 6' deep Another hole partly completed	Water bailed out twice per day. Shaft revetted	Sapper Martin	No.	Rouge Croix - Fletre Rouge Croix - Strazeele
W.16.d.0.4	No.	No.	In house at corner	Yes	do	1 hole 8' deep	Water bailed out twice per day. Shaft revetted	Sapper Hennessy	Yes	Rouge Croix - Strazeele
W.19.d.0.7	No.	No.	House W.19.c 85.70	Yes	125 lbs Sabulite	1 hole 7' deep	Water bailed out twice per day. Revetted	Sapper McGregor	No.	Borre - Strazeele
W.13.d,0.3	No.	No.	In shrine	Yes.	do.	2 holes 5' deep	Water bailed out twice per day. Revetted	Sapper Grant	No.	Cross Roads Borre - Caestre & Borre Hondegheem

Appendix X 18. 1918

LIST OF SPECIAL MEMORANDA

HANDED OVER

appendix, 18

1. W 38. from C.R.E. memo re Trenches of defended localities
2. Report on cellars in BORRE
3. do PRADELLES.
4. Vickers M.G. Emplacements in 2nd Zone.
5. D.H.Q. memo S/8587. re Working Parties.
6. Re Fascines.
7. 2nd F.C.E. memo to C.R.E. re Bridge Demolition.
8. W 41 from C.R.E. reply to No. 7.
8. 2 Handing over reports from 17th. Battn. Fusiliers. N.E.R.

SKETCHES.

1. Map of Borre Switch.
2. Method of Camouflaging for M.G. Positions.
3. do.
4. Cellar in Chateau "Pradelles".
5. do.
6. M.G. Position at Cross Roads, Pradelles.
7. do.

P L A N S.

1. Map of Area 1/5000.
2. Plan of Defence of "Pradelles".
3. Sun Print of Area.
4. do of cellar accommodation in Pradelles.

appendix 18.

LIST OF AEROPLANE MAPS HANDED OVER.

Sheet 36 A.	D. 6.	No. 4B638
do	D 6	" 4B640
	E 1	
do	D 5.6	" 4B645
do	D 5.6.	" 4B644
Sheet 27.	V. 30	No. 4B635
	V. 17.18	" 4B428
	23.24	
	V. 30	" 4B637
	V. 30	" 4B396
	W. 13.14	" 4b360
	19.20.	
	W. 8.13	" 4B353
	15.20	
	V. 29. 30	" 4B367
	W. 25 d 6	
	V. 29	" 4B648
Sheet 27	V. 30	" 4B636
Sheet 36a	D 6	
Sheet 27	V.30	" 4B637
	V 12. 18	" 4B919.
	V 12,W.7	" 4B918

-----0000000-----

TOOLS HANDED OVER.

<u>"B" Line.</u>	177 Shovels, G.S. 22 Pick, heads, 22 " helves.
<u>"C" Line.</u>	350 Shovels. 3 Mauls 1 Wheelbarrow 2 Spades 10 Tracing Tapes.
<u>Borre Defences.</u>	100 Shovels, G.S.
<u>Pradelles Defences</u>	10 Shovels 3 Mauls.

LIST OF MATERIAL IN COMPANY DUMP.

Shovels, G.S.	115
Cupolas,	8
Sandbags,	3000
Pick, helves	50
" heads	50
Wire, Plain, coils	10
Barrows,	2
Latrine, buckets,	3
Mauls,	1
Troughs, horse, canvas,	1

LIST OF MATERIAL IN STRAZEELE FORWARD AREA DUMP.

Sandbags, bales	10
Kalthoid, rolls	173
Wheelbarrows	32
Angle irons, short	740
Pitprops	101
Wire, barbed, coils	368

27th May 1918.

70

97

APPENDIX XIV..

LOCATIONS.

appendix. 18

Support Field Company.	Sheet 27.	V.5.c.8.3.
Reserve Field Company.	"	V.8.Central
Support Brigade H.Q. (nearest Signal Office)	"	V.10.c.8.7.
Strazeele Forward Area Dump.	Sheet 36a.	E.5.c.2.1.

70
COPY.

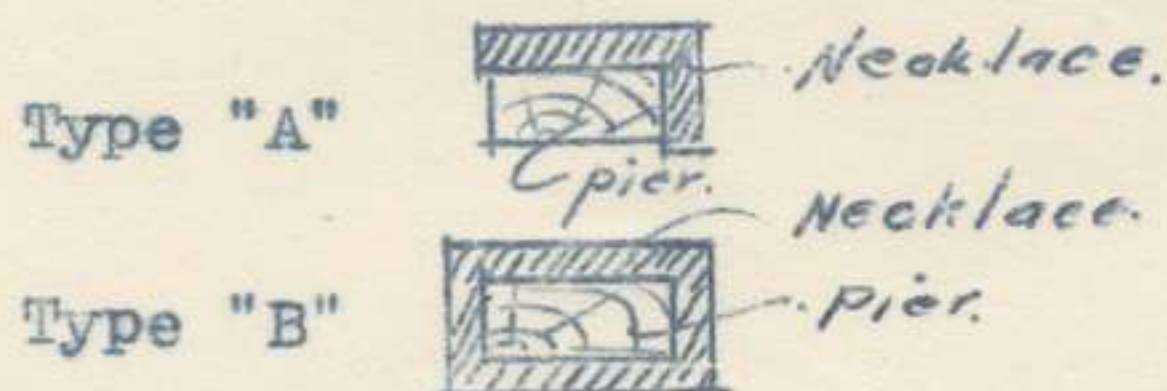
appendix 18
EW 78
25.5.18.
98

To.
C.R.E.
1st Aust. Div.

BRIDGE DEMOLITION. 2nd ZONE 1st. Aust. Div.

Attached list of demolitions prepared.

1. It is submitted the additional demolition of girders in bridge V. 24 c.3.9. would be an advantage.
- 2 Houses at V.24.a.5.1. and V.24.a.9.2. should be prepared for burning to avoid any timber being available.
3. In timber bridges it is thought
 - a. "A"necklace might be an improvement on type shewn B.



- b. Decking and road bearers should be rendered useless to the enemy by burning them. Bridges can be tarred and petrol stored inside. A thermit bomb at each position would be an advantage.
4. There are small footbridges alongside Artillery Bridges at V.24.c.0.4. and V.18.c.2.8. It is asked if the Infantry require these in addition to Artillery Bridges or should they be destroyed forthwith?
5. Culverts exist at V.18.c.7.6. and V.18.a.2.6. Should they be included in the defence schemes, please ?
6. There are two Sappers at present maintaining charges and two Sappers for each structure will be detailed to be conversant with detail of demolitions.
7. Fuses etc., will be placed on site when suitable, arrangements can be made for storing.

(Sgd) G.N.Crocker Major.
O.C. 2nd Field Co. Engrs. A.I.F.

EW 79
25.5.18.

99

To.

O.C.

1st Field Co. Engrs.

A. I. F.

Reference relief of this unit in the 2nd (Support) Zone, by 1st. Field Co. Engrs. A.I.F., can the following be arranged, please.

1. That Section of the 1st. Field Co. meet Section Officers of this unit as follows on 26th May 1918.
 - a. BORRE DEFENCES at 11a.m. 1st Field Co. H.Q. Borre. Lieut Clark.
 - b. "B" Line and PRADELLES DEFENCES, Lieut. Hill, 11 a.m. 1st Field Co. H.Q. Borre.
 - c. "C" Line South, Lieut. Rosman, 11 a.m. 1st Field Co. H. Q. Borre. (also "D" Line South).
 - d. "C" Line North, and "D" Line North. Lieut. Heseltine, 11 a.m. 1st. Field Co. H. Q. Borre.
2. That $\frac{1}{2}$ Sections replace opposite numbers on the work at 7.30 a.m. on the 27th inst., $\frac{1}{2}$ Sections of this unit would be working with your $\frac{1}{2}$ Sections on 27th inst.

This would mean your unit supplying.-

$\frac{1}{2}$ Section at W.19.d.0.7 at 7.30 a.m.	Borre Defences.
2 Sappers at V 24 c 3 9	do Bridges.
4 Sappers at V 5 c 6 4	do Roads
$\frac{1}{2}$ Section at W 25 b 7 9	do "B" Line
2 Sappers at W 21 c 7 6	do Pradelles
$\frac{1}{2}$ Section at V 30 b 9 9	do "C" Line South
$\frac{1}{2}$ Section at W 13 b 4 2	do "C" Line North.

Can you arrange to supply Officers with the parties at.-

W. 25 b.7.9.

W 13.b.4.2.

This unit will provide two Officers for other parties.

3. Probable Time Table of Sappers move of this unit is

$\frac{1}{2}$ Company at 6.30 a.m.	27.5.18.
$\frac{1}{2}$ do 2 p.m.	do

Major.

O.C 2nd Field Co. Engrs. A.I.F.

20 21

PROGRAM of TRAINING.

2ND
AUSTRALIAN
FIELD COMPANY.

100

No. APPENDIX No. 20

Date.

2nd DAY.

- 9 - 9.30 a.m. Gas Training. Section Drill.
9.30 - 10 a.m. Lecture by Section Officers on Wiring
10 - 10.15 a.m. "Smoke O".
10.15 to 11.30 50 yards of double apron fence
11.30 to 12. Setting out tactical wiring with tapes, shewing developement with regard to Machine Gun

Stage I.

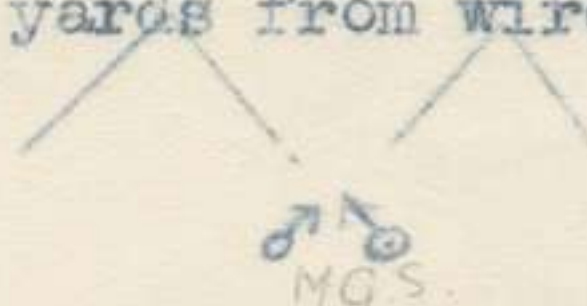
M.G. placed on acute angles of wire and enfilading it as sketch



The length of straight stretch to be 600 to 700 yards embracing whole cone of fire of M.G.
Disadvantage. Give away position of gun.

Stage II.

Wire discontinuous at acute angles, only posts being erected.
2 M.G.'s placed about 50 yards from wire to enfilade as in sketch.-



Disadvantage. Give away position of gun.

Stage III.

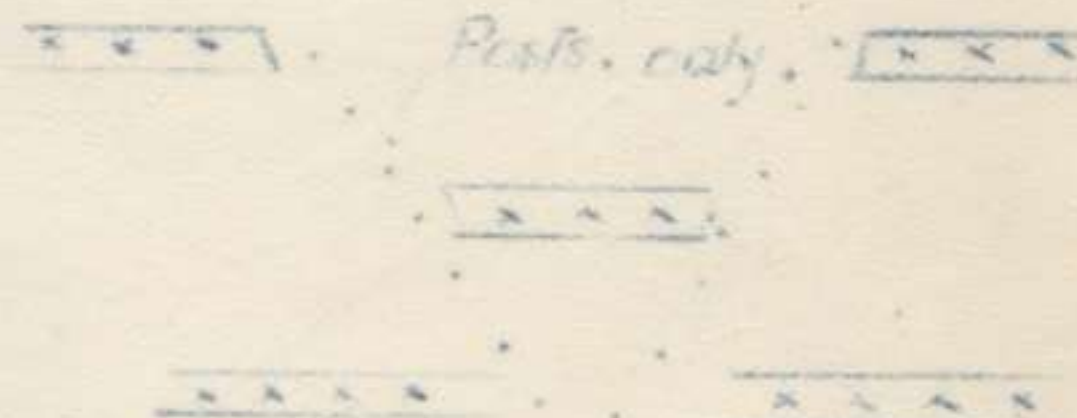
Wiring discontinuous, as in stage II.
M.G.'s 50-100 yards from acute angle and not in line of wire (as in sketch) to aid concealment of M.G. position in aerial photos.



Stage IV. Favoured by Machine Gunners.

Wiring in belts as in sketch with gaps enfiladed by Machine Gun

Machine Gun to be 300 - 400 yards from wire depending on the ground.



3rd Day.

- 9 to 9.30 a.m. Gas training, Section drill
9.30 to 10 a.m. Lecture by Section Officer on construction of:-
(I) Sites for M.G. emplacements
(II) House defences
(III) Provision of splinter proof shelters for garrison and M.G. detachments.
(IV) The necessity for cross bracing of structures.
10.- to 10.15 a.m. "Smoke Oh"
10.15 to 12.- Sections to construct 4 man shelter.

4th DAY.

9 to 9.30 a.m.

Gas training
Section drill.

9.30 a.m.

No. 1 Section.

Demolition scheme for bridge at B.22b.8.2.

Sheet 36a. Explosives from Tool carts.

No. 2 Section.

Demolition scheme for bridge at B 8

Sheet 36a. Explosives from toolcarts

No. 3 Section.

Scheme for Divisional Field Artillery bridge at B 16 a
Materials to be found on site.

No. 4 Section.

Scheme for Divisional Field Artillery Bridge at C 17 d

Sheet 36a. to replace bridge prematurely blown.

Materials to be found on site.

Sections to march out and carried back on pontoons.

Midday meal to be carried.

5th Day.

9 to 9.30 a.m

Gas training, Section drill.

9.30 a.m.

No. 1 Section.

Scheme for Divisional Field Artillery Bridge at B 16 a
Materials to be found on site.

No. 2 Section.

Scheme for Divisional Artillery (Field) Bridge at C 17 d

Sheet 36a. to replace bridge prematurely blown.

Materials to be found on site.

No. 3 Section.

Demolition scheme for Bridge at B.22.b.8.2 Sheet 36a

Explosives from tool carts

No. 4 Section.

Demolition Scheme for Bridge at B 8

Sheet 36a

Explosives from toolcarts.

Sections to march out and carried back on pontoons

Midday meal to be carried.

6th DAY.

9 to 9.30 a.m

Gas training. Section drill.

9.30 to 10 "

Criticism of schemes.

10 to 10.15 "

Smoke Oh.

10.15 to

11 a.m.

Lecture on trestle bridging.

11 to 12.--

Scheme for organisation of working parties.

7th DAY.

9 to 9.30 a.m

Gas training. Section Drill.

9.30 to 10.30

a.m.

Lecture on trench dimension, revetting etc.,

10.30 to

10.45

Smoke Oh.

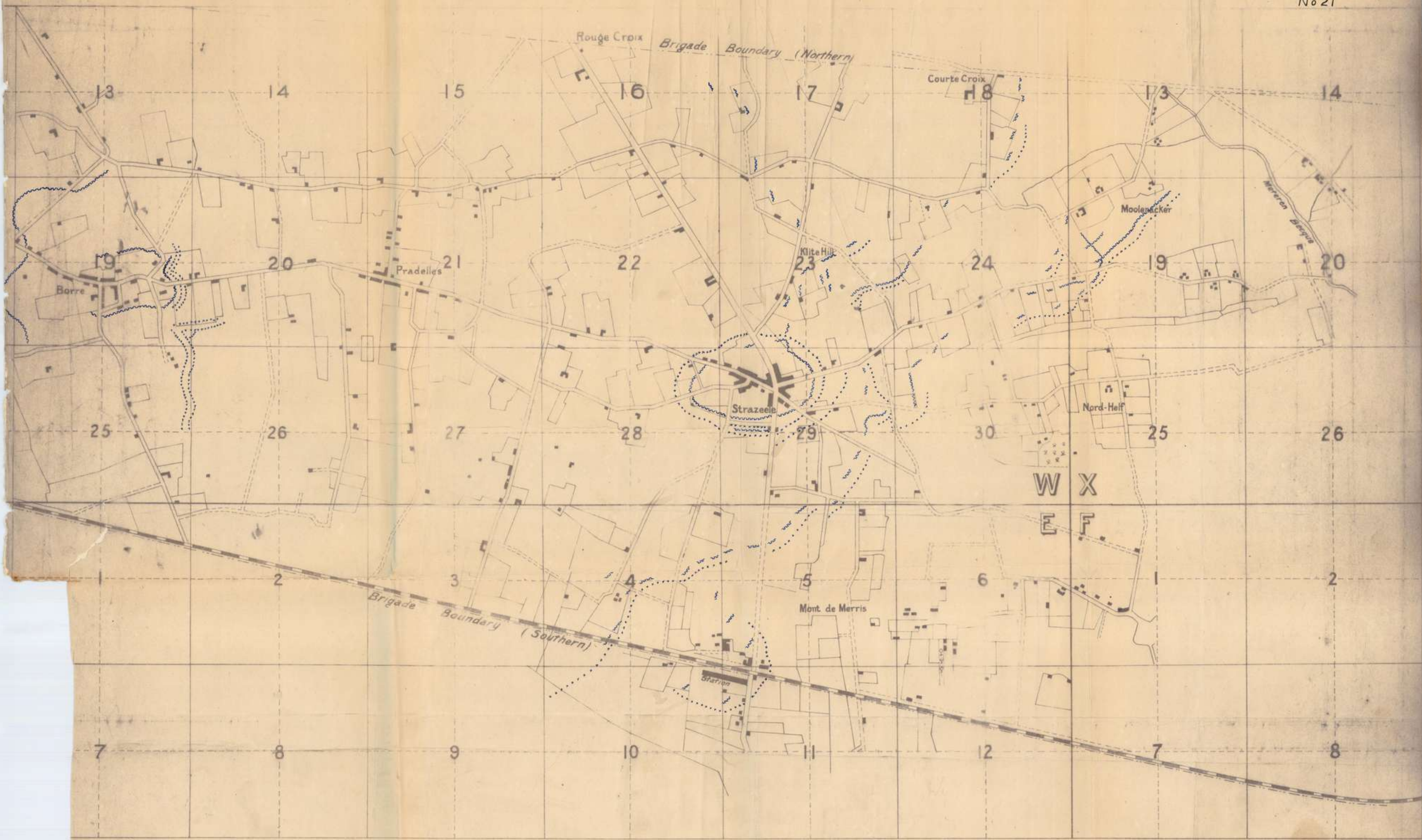
10.45 to

12.--

Sections to practice revetting.

Major.

O.C. 2nd Field Co. Engrs.



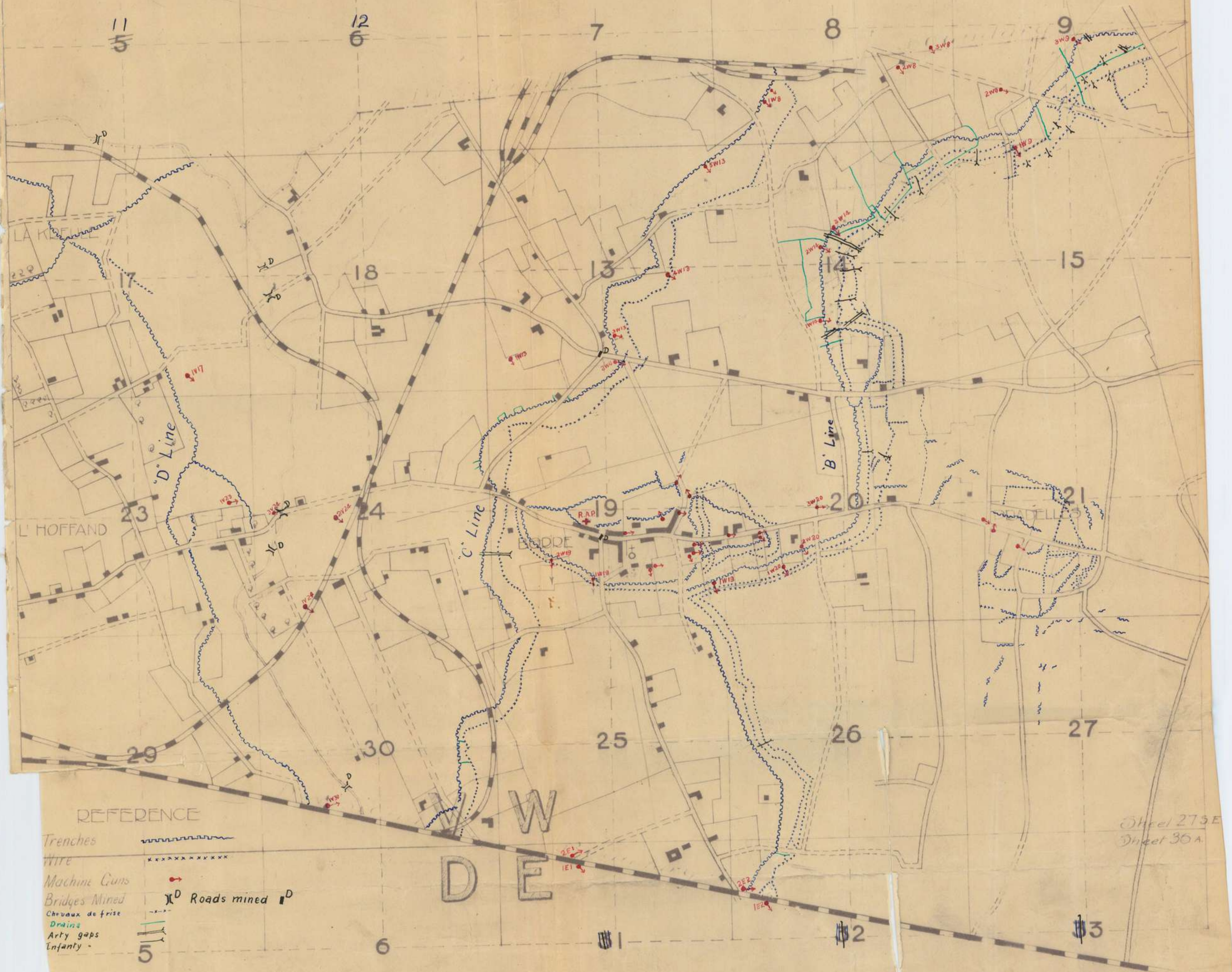
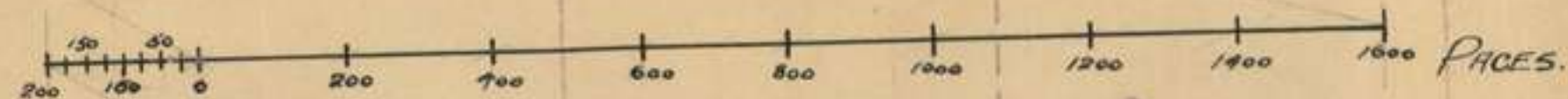
Trenches: ~~~~~
Wire: - - - - -

appendix. 81.

No 22



appendix. 82.



20

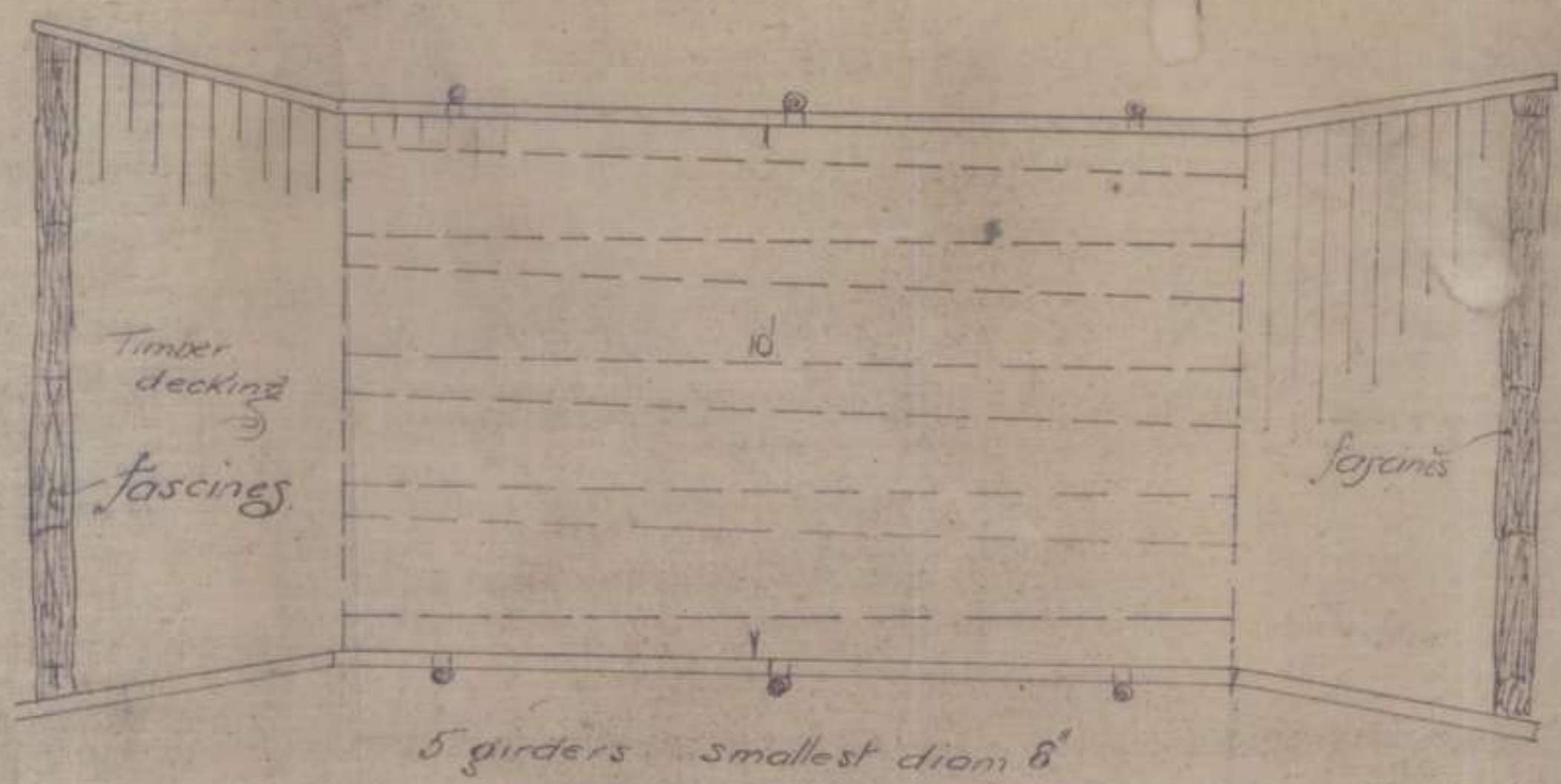
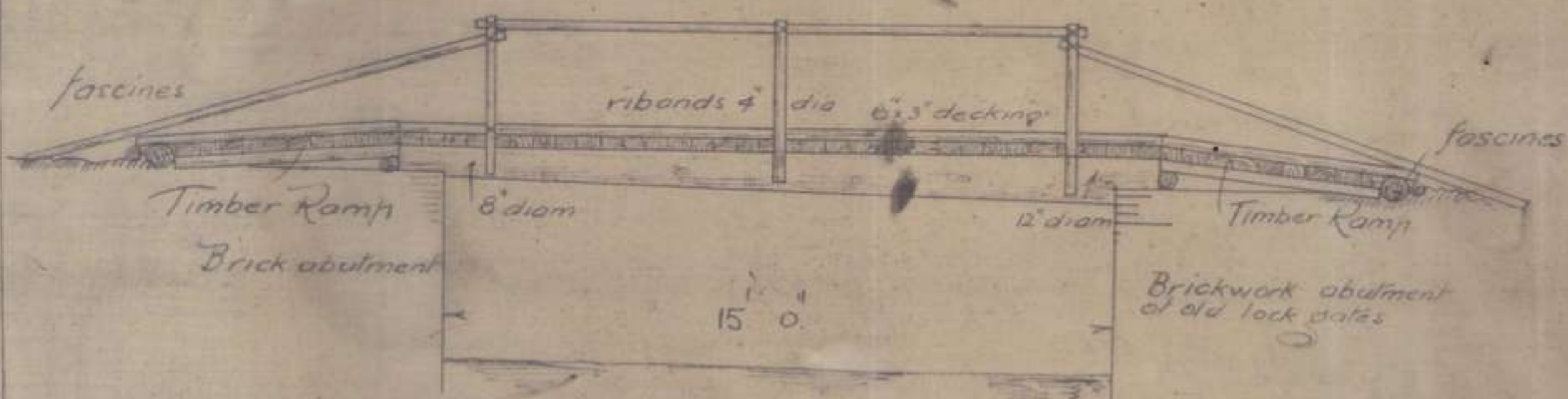
105

No 24 105

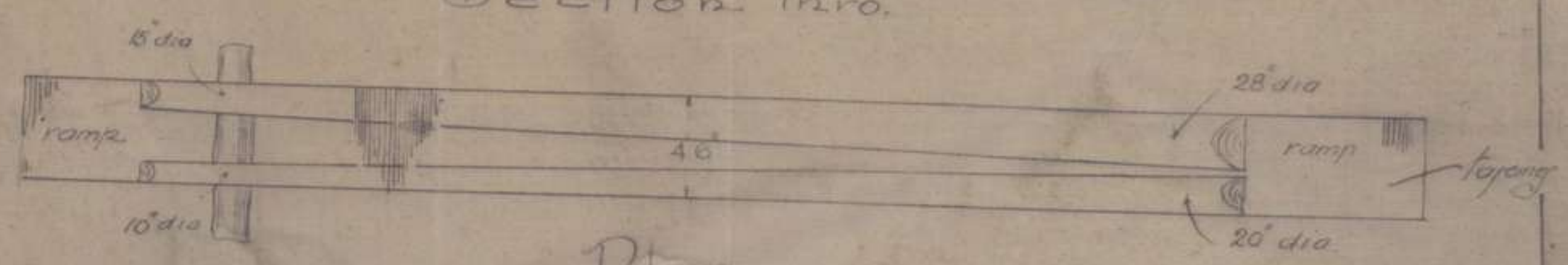
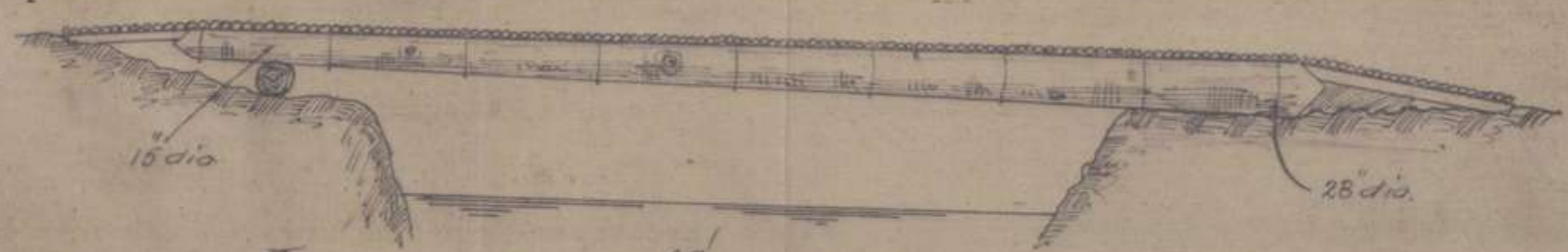
2nd Field Coy Engro.

20

BRIDGE at to carry Field Gun

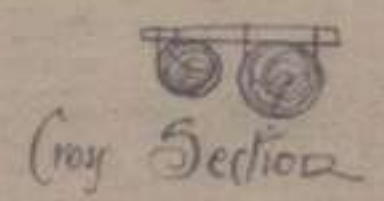


FOOTBRIDGE at



Plan

Decking of 4' 6" forest stakes about 4" dia
These were made in 6 mats by wire lacing
Girders obtained on spot



Appendix sf.

P1

20

ROAD MINED at W25 b 4.7

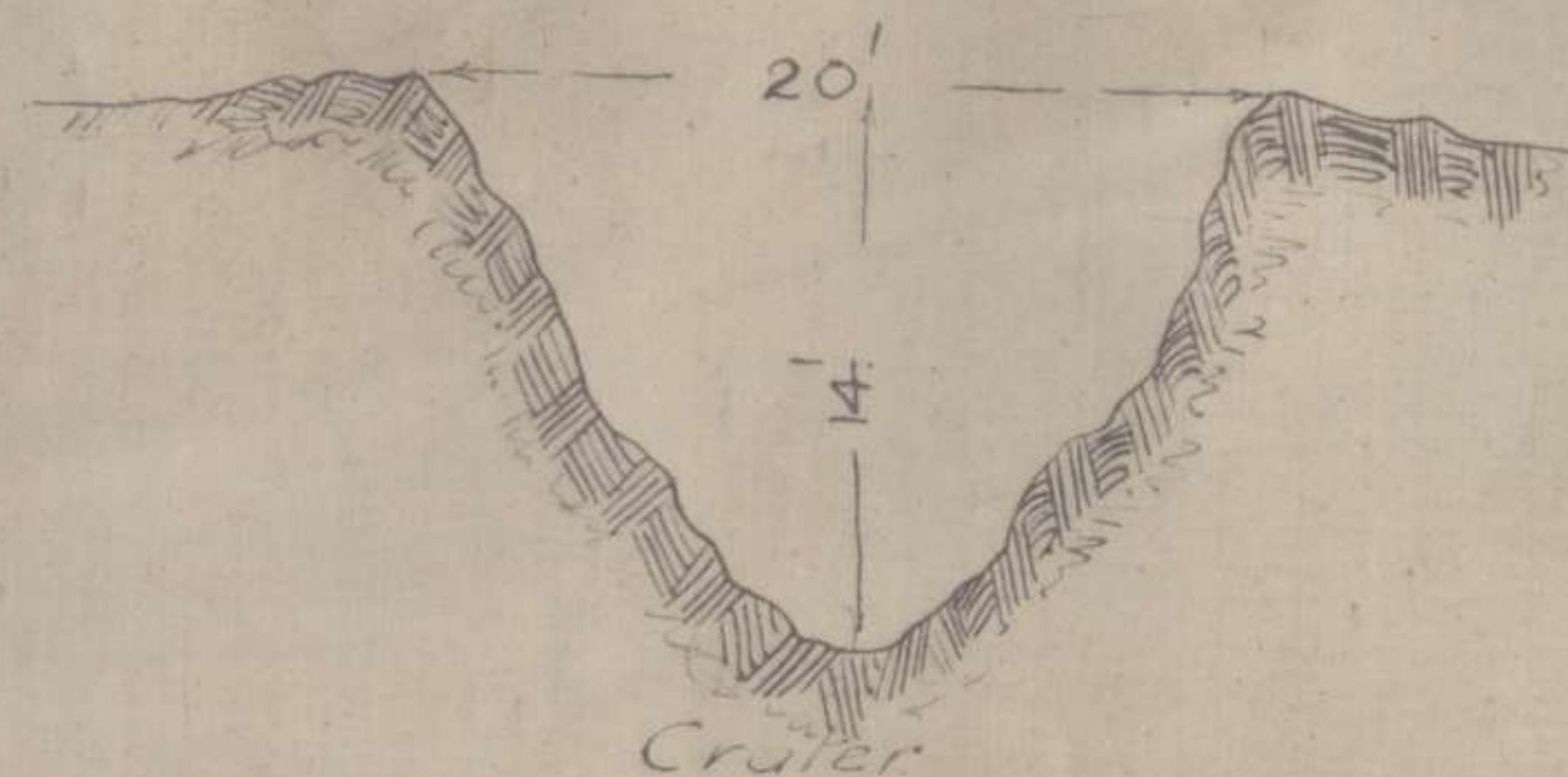
fired electrically

Leads
70 yds
long

Road 12' wide

Hole
4' deep

Charge 75 lbs Sabulite



107

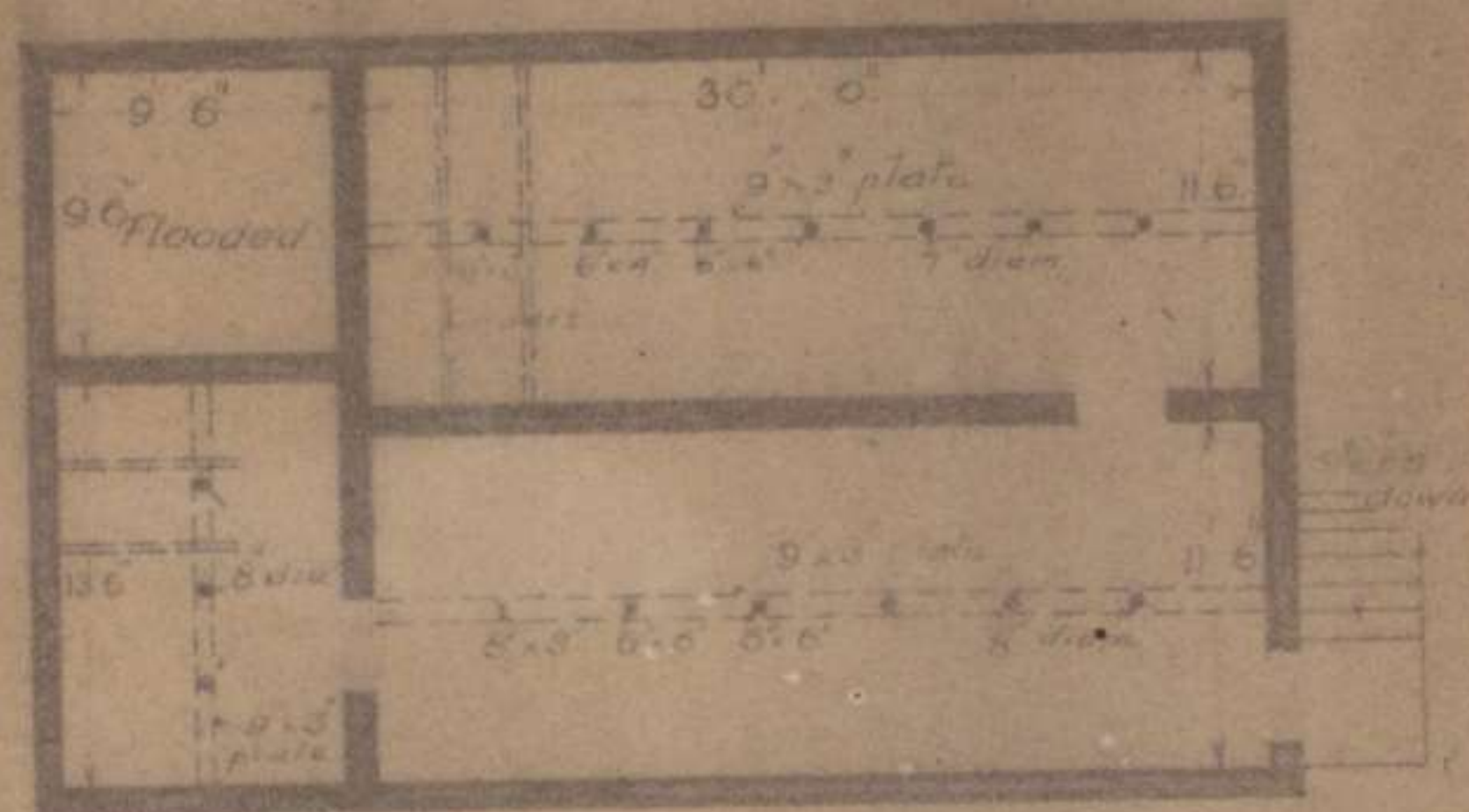
107

20

P1

PLAN OF CELLARS SHEWING

SUPPORTED CEILINGS

2ND Field Coy Engg

Ground Plan

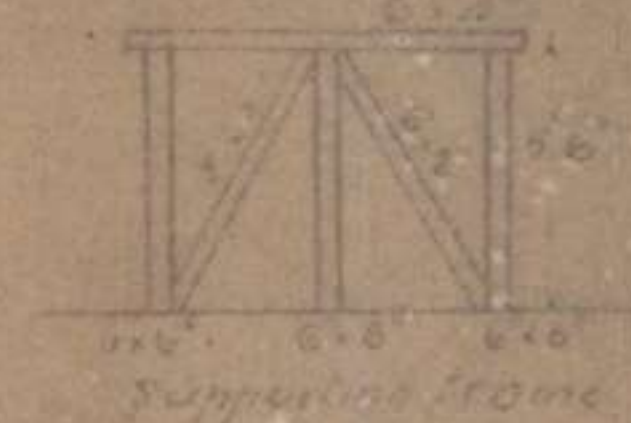


Sections

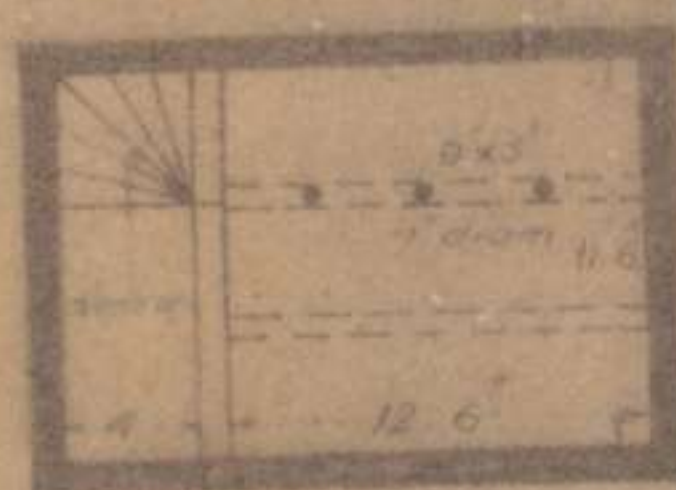
LOCATION W 19 c 8.8



Ground Plan



Section

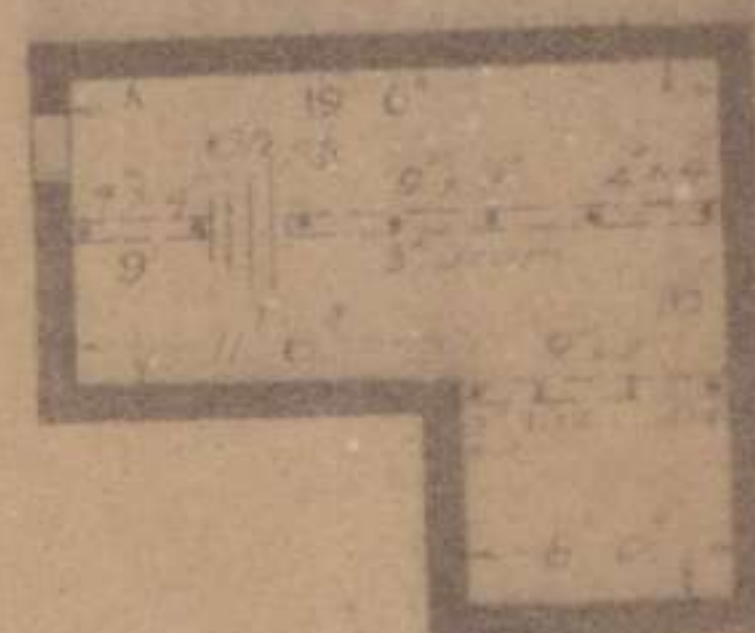


Ground Plan



Section

LOCATION W 19 c 9.8

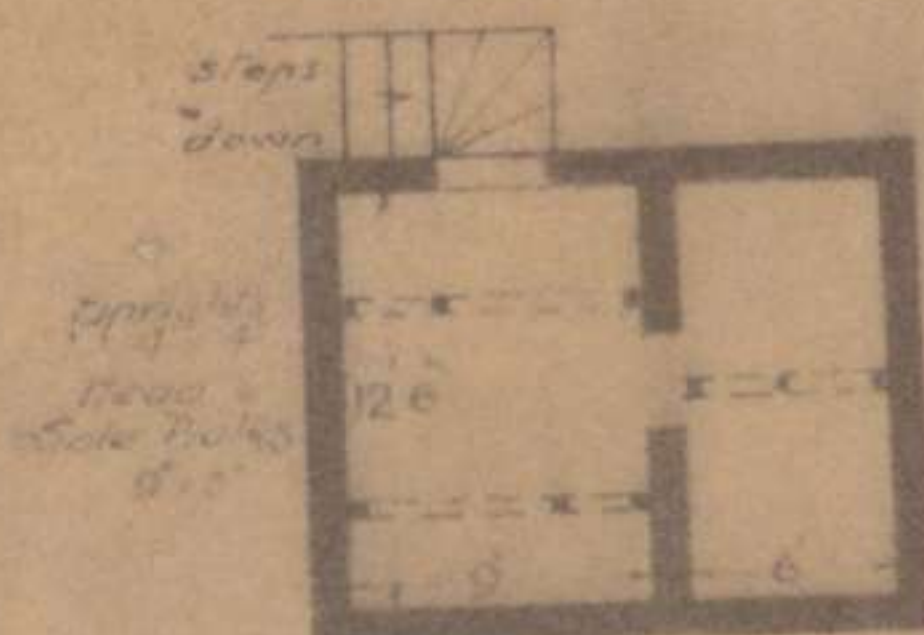


Ground Plan

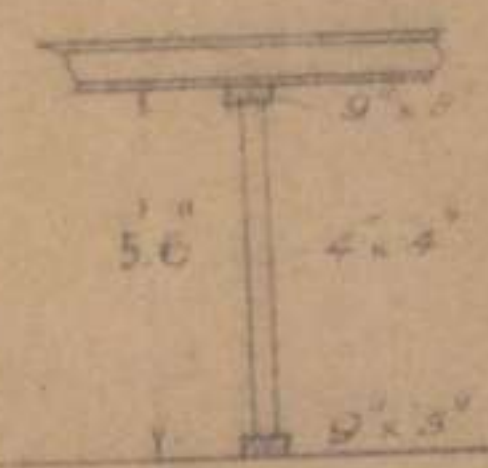
LOCATION W 19 d 25.85



Section



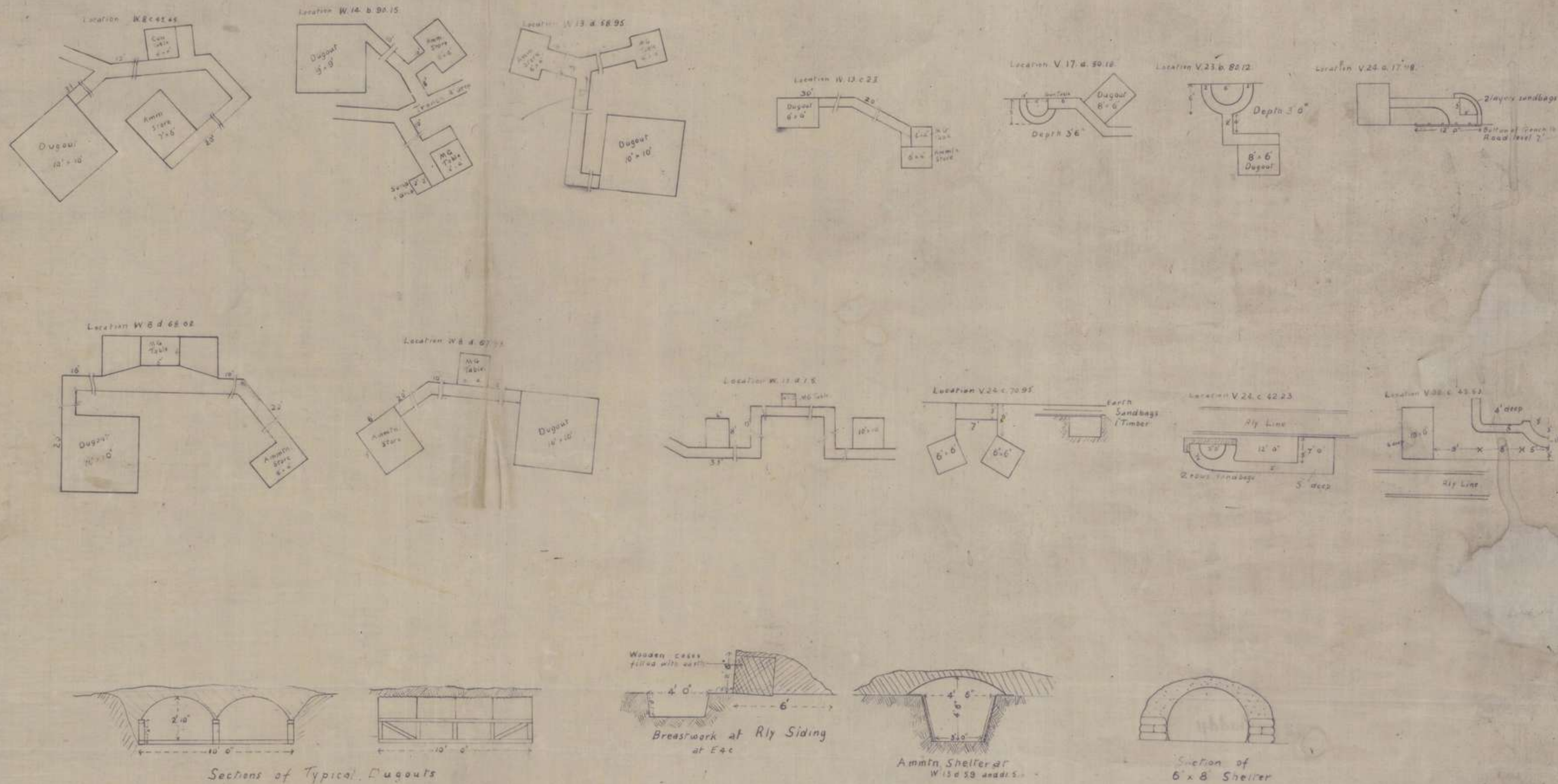
Ground Plan



Section

LOCATION W 19 d 35.50

appendix. 27.

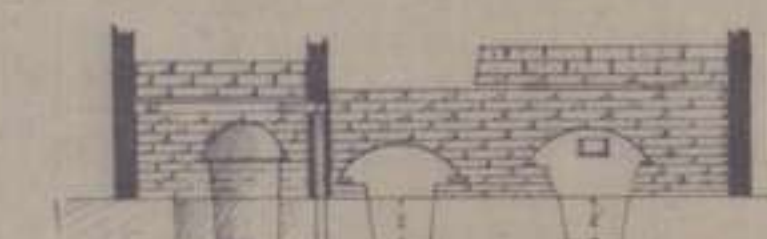
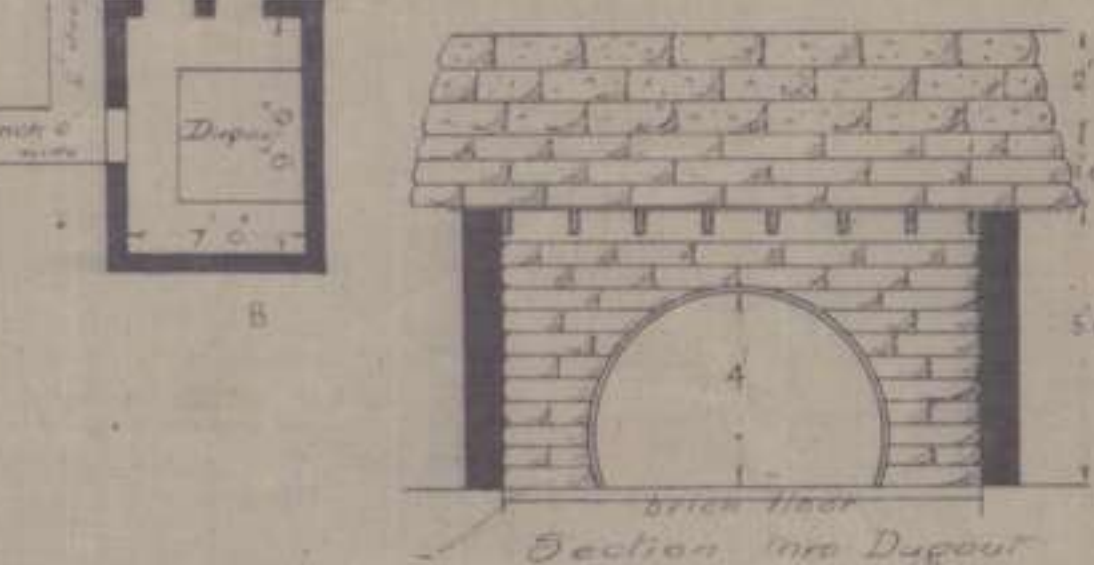
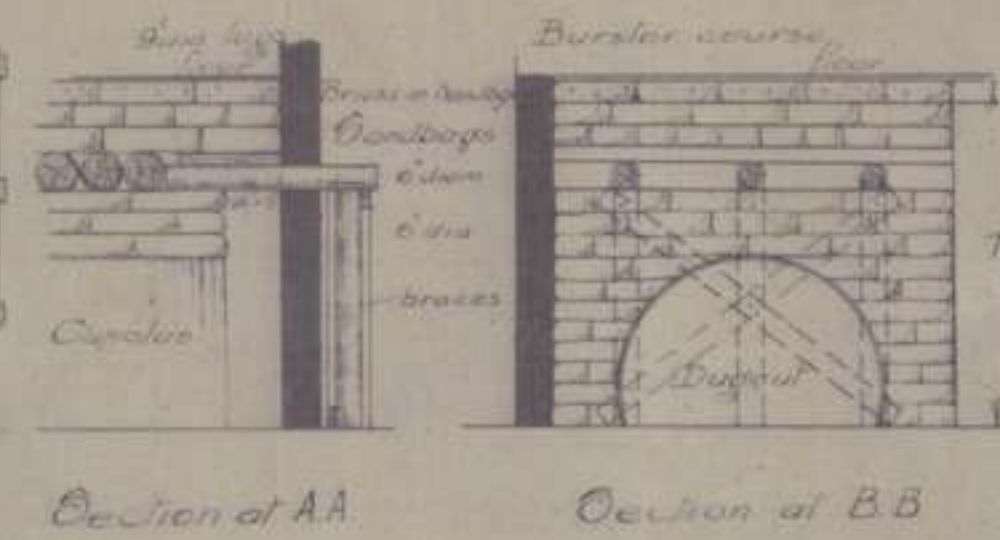
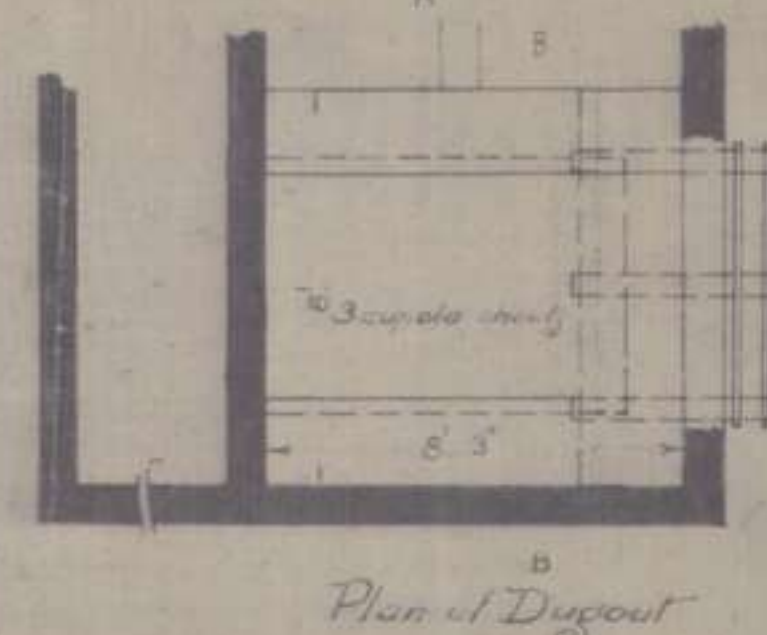
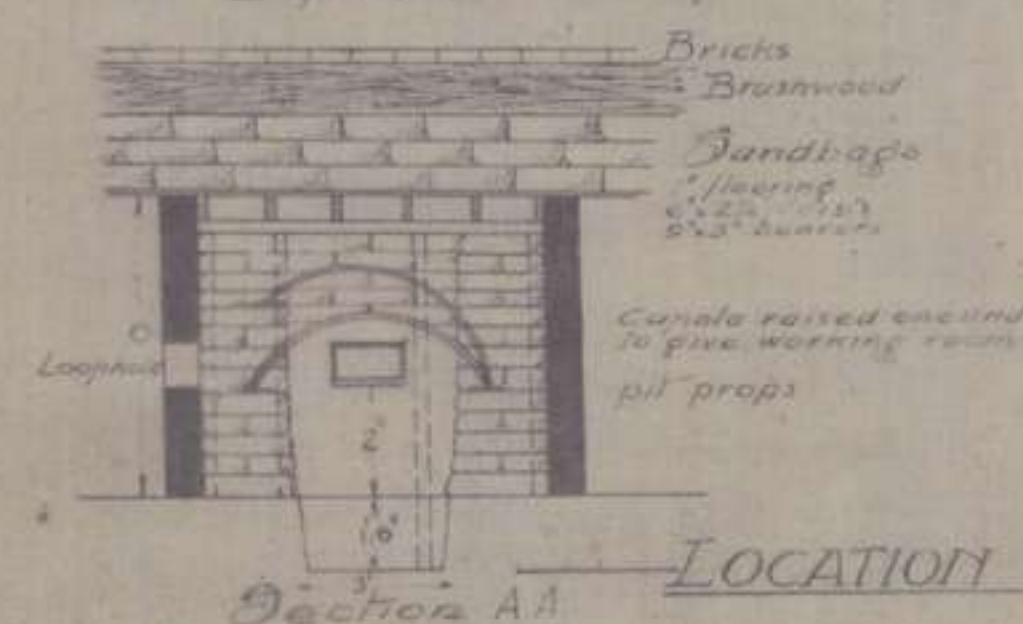
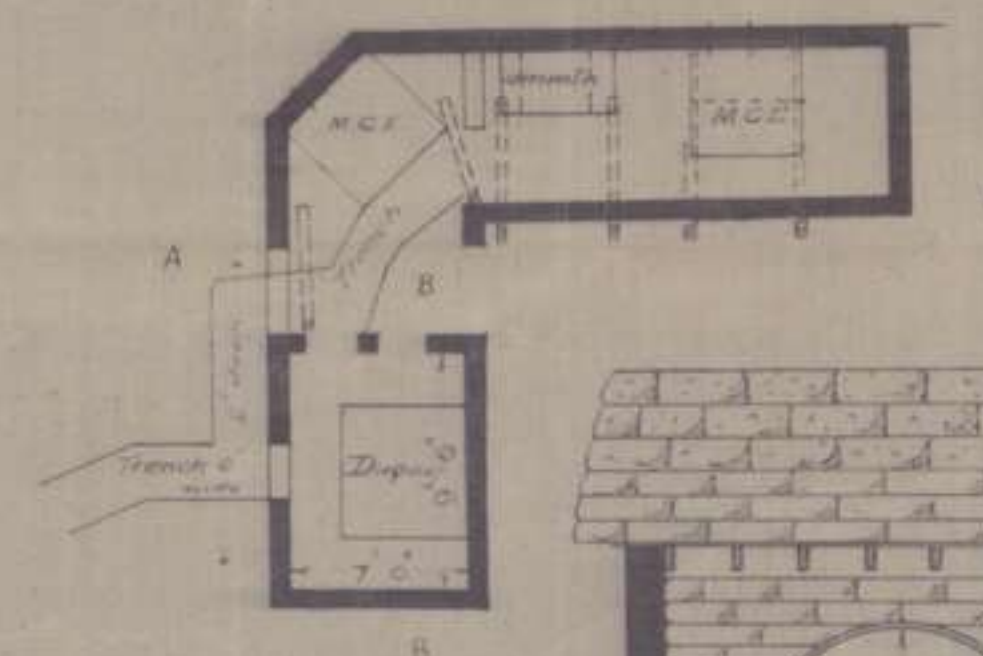
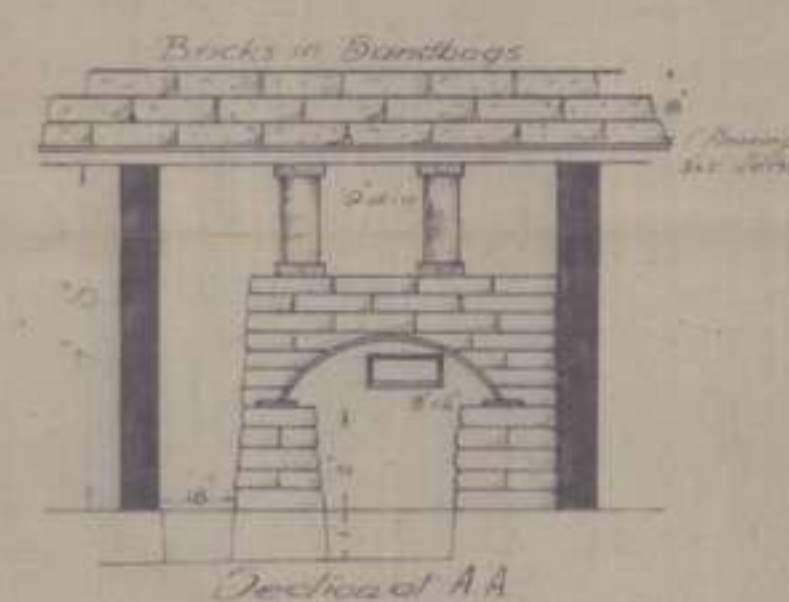
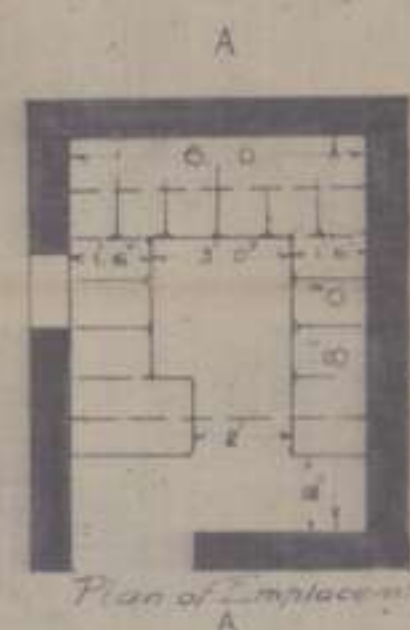
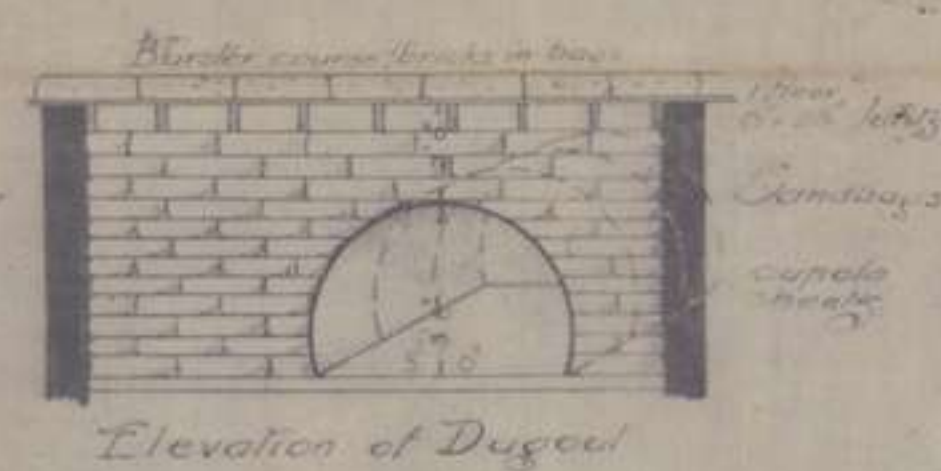
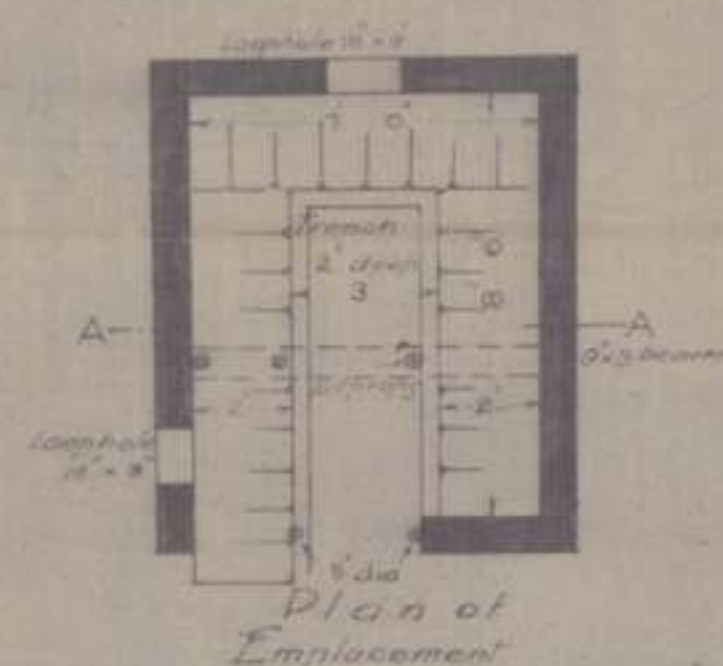


M.C. POSITIONS

POSITIONS

Appendix 28.

M G POSITIONS and DUGOUTS.



LOCATION W 20 c 25 15

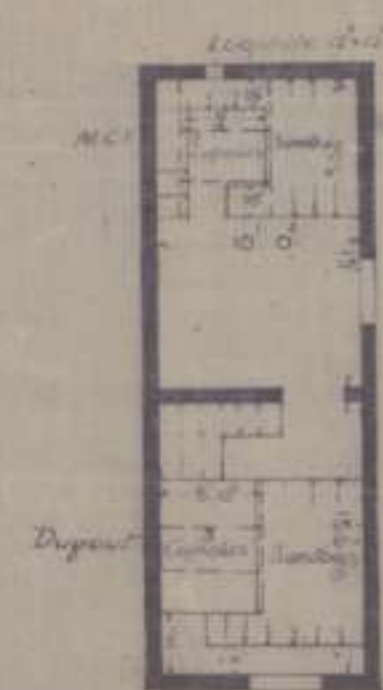
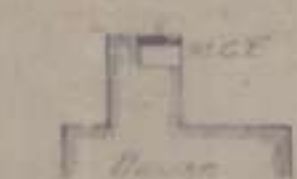
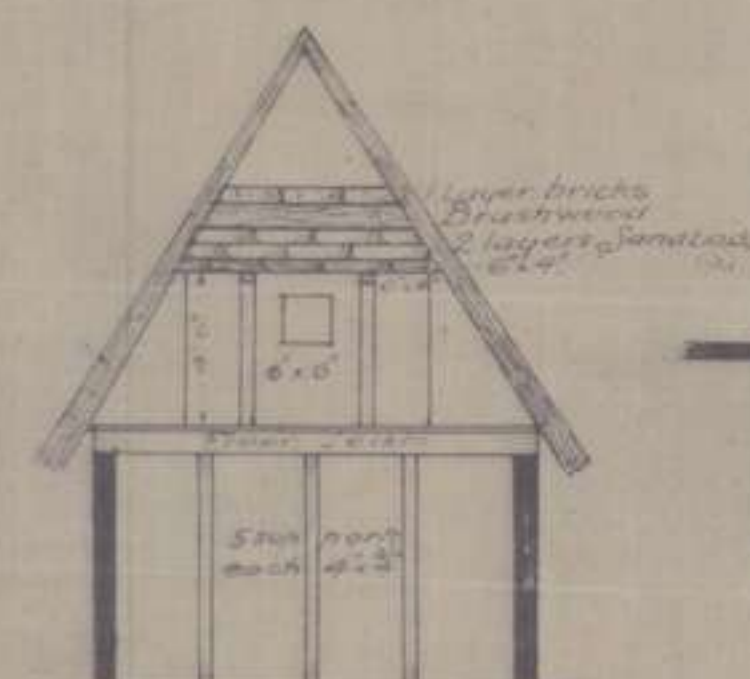
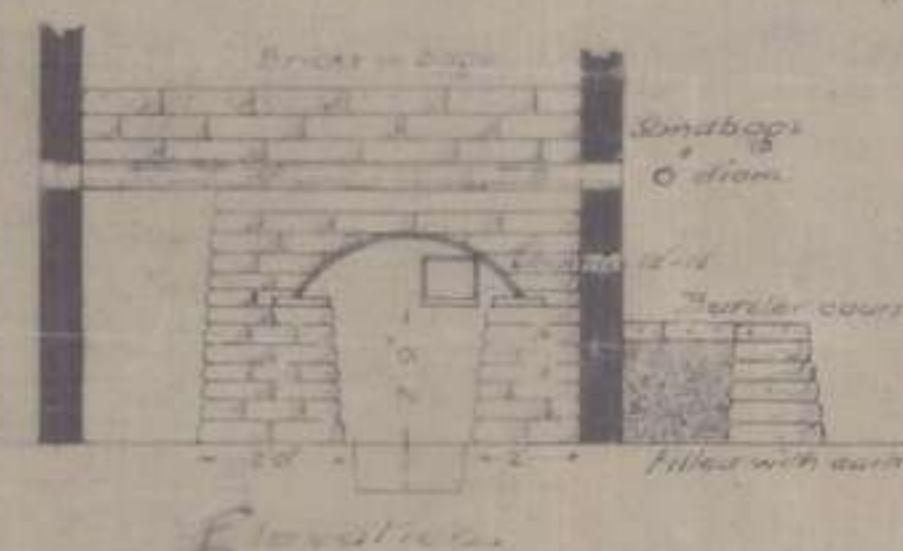
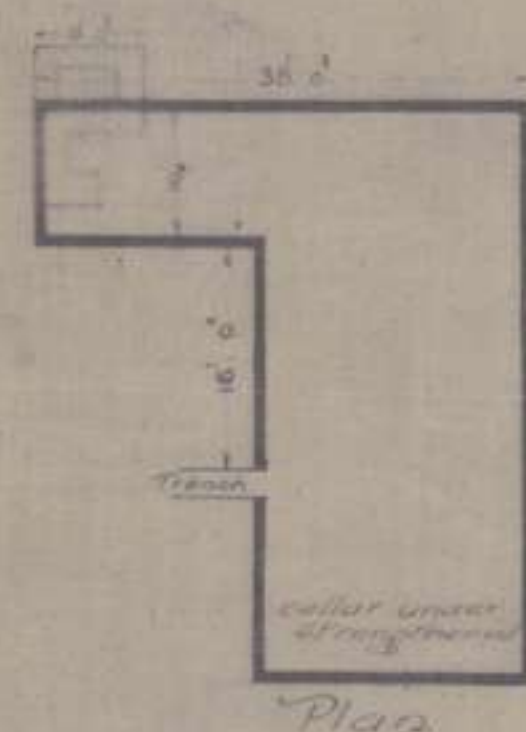
B
Plan of Dugout

Section at A.A

Decision of B.B.

Section of AA

—LOCATION W 19 d 15.80



-LOCATION W 19. 60.98

Location W 1941's

Location W 19d 2530

—Location 2. W 19 d 36

