

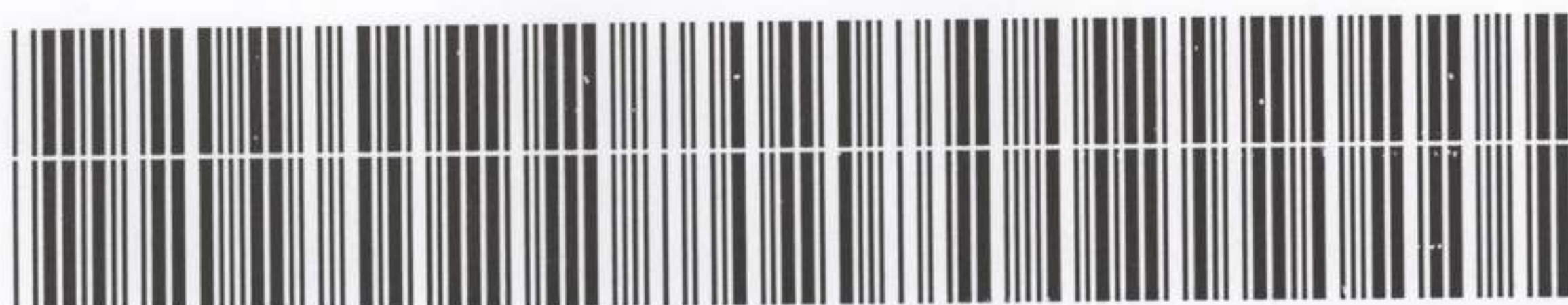
AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Artillery

Item number: 13/25/32 Part 3

Title: Headquarters, 36th Heavy Artillery
Group

September 1918



AWM4-13/25/32PART3

[13/25/32]

[Appendix M]

HQ IInd Corps

Orders

10-27 Sep

350

106

JB.

36TH (AUSTRALIAN) BDE., R.G.A.	
No.	P229
Date	

S E C R E T.

=====

APPENDIX

3

Copy No.

Headquarters, II Corps.
10th September, 1918.

II CORPS ORDER NO. 275. =====

1. The following artillery moves will take place on the night 11th/12th September, 1918 :-

(a) 36th Australian Brigade, R.G.A. (Mixed) from XV Corps Area (CAESTRE) to II Corps Area. Accommodation as follows :-

(i) Motor drawn batteries at the Artillery Rest Camp, ZEGGERS CAPPEL.

(ii) Horse drawn batteries in the HERZEELE Area.

Route for Motor drawn batteries will be CASSEL - ARNEKE - ERKELSBRUGGE and that for horse drawn batteries Cross Roads 27/P.13.c. - STEENVOORDE - DROGLANDT - Cross Roads E.13.c. and to clear Cross Roads E.13.c. by 12 midnight.

(b) 87th Brigade, R.G.A. (Mobile) from X Corps (27/R.34 - R.35 and BOESCHEPE) to HERZEELE Area in II Corps Area.

Route - ABEELE - WATOU - HOUTKERQUE.

Not to pass the Cross Roads at 27/E.13.c. before midnight.

2. All moves will be carried out after dark.

3. Details of accommodation will be obtained from S.C.R.A., II Corps.

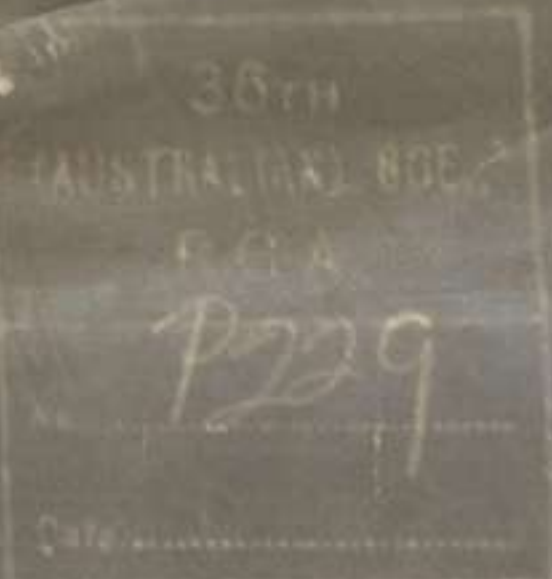
4. ACKNOWLEDGE.

Issued at 11.50 p.m.

John Mc...
Major for B.G., G.S.

Distribution:-

- | | |
|------------------------------|-------------------|
| 1. B.G., G.S. | 10. G.O.C., H.A. |
| 2. 87th Brigade, R.G.A. | 11. A. & Q. |
| 3. 36th Australian Bde. RGA. | 12. A.D. Signals. |
| 4. XV Corps. | 13. A.P.M. |
| 5. XIX Corps. | 14. G.S. (I). |
| 6. X Corps. | 15. D.D.M.S. |
| 7-8. Second Army. | 16-17. War Diary. |
| 9. G.O.C., R.A. | 18. File. |



APPENDIX
VIII

Copy No. 3

Headquarters, II Corps.
10th September, 1918.

II CORPS ORDER NO. 275.

1. The following artillery moves will take place on the night 11th/12th September, 1918 :-

(a) 36th Australian Brigade, R.G.A. (Mixed) from XV Corps Area (CAESTRE) to II Corps Area. Accommodation as follows :-

- (i) Motor drawn batteries at the Artillery Rest Camp, ZROGERS CAPPEL.
- (ii) Horse drawn batteries in the HERZEELE Area.

Route for Motor drawn batteries will be CASSEL - ARNEKE - ERKELSBURG and that for horse drawn batteries Cross Roads 27/P.13.c. - STEENVOORDE - DROGLANDT - Cross Roads E.13.c. and to clear Cross Roads E.13.c. by 12 midnight. 30.c.

(b) 37th Brigade, R.G.A. (Mobile) from X Corps (27/P.34 - R.35 and BOESCHERPE) to HERZEELE Area in II Corps Area.

Route - ABSELE - WATOU - HOUTKERQUE.
Not to pass the Cross Roads at 27/E.13.c. before midnight.

2. All moves will be carried out after dark.

3. Details of accommodation will be obtained from S.C.R.A., II Corps.

4. ACKNOWLEDGE.

Issued at 11.50 P.M.

W. H. M.
May for B.C., C.S.

Distribution:-

- | | |
|--------------------------------|-------------------|
| 1. B.G., C.S. | 10. G.O.C., H.A. |
| 2. 37th Brigade, R.G.A. | 11. A. & Q. |
| 3. 36th Australian Bde. R.G.A. | 12. A.D. Signals. |
| 4. XV Corps. | 13. A.P.M. |
| 5. XII Corps. | 14. G.S. (I). |
| 6. X Corps. | 15. D.D.H.S. |
| 7-9. Second Army. | 16-17. War Diary. |
| 9. G.O.C., R.A. | 18. File. |

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APPENDIX

SECRET & CONFIDENTIALIInd Corps H.A.
B.M.804.

15th September, 1918.

43rd Brigade, R.G.A.
59th " "
=====

Reference Conference of Brigade Commanders today.

1. As a provisional measure Lanes for Bombardment purposes are as follows:-

Lane 1. S. Boundary. E. & W. Grid Line through I.22.central.
N. Boundary. E. & W. Grid Line through I.10.central.
Lane 2. N. Boundary. E. & W. Grid Line through C.28.central.
Lane 3. N. Boundary. E. & W. Grid Line through C.16.central.

2. Bombardment Brigades to above are allotted as follows:-

Lane 1. 43rd Brigade R.G.A.
Lane 2. 59th Brigade R.G.A.
Lane 3. 12th Brigade R.G.A.

3. Guns of above Brigades in Battle Positions must be so sited that they cover their own Lanes to limit of range and as much ground right and left as possible, except 43rd Brigade which will allow for a small overlap on their right.

4. These Lanes must in no way be ^{confused} ~~confounded~~ with the Lanes given for S.O.S. purposes and the information contained in this letter should not be given to Battery Commanders.

5. ACKNOWLEDGE.

Major R.A.,

Brigade Major H.A. IInd Corps.

Copies to:-
87th Brigade
36th "
72nd "
3rd "

APPENDIX

SECRET

Copy No. 2.....

21st September 1918.

OBSERVING PARTIES

IIInd CORPS HEAVY ARTILLERY OPERATION ORDER No. 184.
=====

1. On the commencement of offensive operations on this Front it will be of the utmost importance to get early information of the progress of our troops and the action of the enemy.

Owing to the great length of communication it is thought that a system of running Brigade Forward Observing Parties will not be suitable as Brigades will not be able to supply a sufficiency of personnel or signalling stores.

2. For this reason it has been decided to concentrate on maintaining 4 main lines of communication ^{a. to} to coalesce the F.O. Observing Parties of Brigades as follows.

(A). Counter Batteries - 36th (Aust.) Brigade R.G.A. and 72nd Brigade working with the Field Survey Coy. and under the orders of the C.B.S.O.

(B). 86th Brigade R.G.A. and 70th Brigade R.G.A., starting from WIELTJE and advancing via POMMERN CASTLE and HILL 35 to ABRAHAM HEIGHTS and BELLE VUE (D.4.d.7.2)

(C). 59th and 87th Brigades R.G.A. - based on I. Test Box at DEAD END to advance from POTIJZE via DOUGLAS VILLA or KIT & KAT to the BROODSEINDE RIDGE.

(D). 43rd Brigade & 77th Brigade R.G.A. to start from RAMPARTS YPRES and advance via YEOMANRY POST to STIRLING CASTLE.

It is to be understood that the above routes serve only as a rough guide.

3. Each party will be provided with flags, Lucas Lamps, pigeons and C.W. sets in addition to telephones and cable.

4. Each party should be of sufficient strength to allow of 2 officers being with the most advance party and to leave officers at various points along the line of advance to superintend the cable repair parties - visual transmitting station etc.

Reliable N.C.Os. should be placed in charge of visual transmitting stations and cable repair parties.

5. All details should be considered by Brigades in consultation and arranged for as soon as possible.

6. C.W. sets will be installed on the following plan.

(a) 1 instrument at II Corps H.A.H.Q.

(b) 1 instrument at 70th Brigade R.G.A. H.Q. at TROIS TOURS CHATEAU

(c) 1 instrument at 29th Divisional H.Q. (Forward) under control of O.C. 77th Bde. RGA

(d) 1 instrument for C.B.S.O. - Forward report centre.

(e) 1 instrument each with parties (A), (B), (C), (D)

P.T.O.

APPENDIX

"2"

Brigades will arrange to connect by phone as follows:-

- With (d) 72nd Brigade R.G.A.
- With (b) 59th, 86th & 87th Brigades R.G.A.
- With (c) 43rd Brigade R.G.A.

The instrument at (c) and with party (D) is also for the use of 29th D.A. O.C. 77th Brigade will arrange to work in co-operation with them

The O.C., 3rd Brigade will detail a forward observing party to work in co-operation with the 9th D.A. who are supplying an instrument and are based on Corps Observers instrument at VLAERTINGHE CHATEAU.

7. Brigades are affiliated to Divisions as under:-

3rd Brigade with 9th Division whose Battle H.Q. will be at MACHINE GUN FARM.

77th Brigade with 29th Division, whose battle H.Q. will be at GOLDFISH CHATEAU.

8. Kite Balloon Forward Exchanges will be established as follows:-

No. 7 K.B.S. - JOFFRE FARM (28/C.19.d.)

No. 17 K.B.S. - I box at I.1.b.7.5

Brigades should link up to those by telephone from present and forward H.Q. as follows:-

36th, 38th, 70th, 3rd Brigades to No. 7 K.B.S.

59th, 43rd, 87th, 77th Brigades to No. 17 K.B.S.

72nd Brigade R.G.A. will link up to both.

9. Brigades ACKNOWLEDGE.

Major R.A.,
Brigade Major H.A. II Ind Corps.

Copy No. 1 3rd Brigade RGA

- | | | | | | |
|----|---------------------|---|---|---------|--------------|
| 2 | 36th | " | " | No. 13. | II Corps "G" |
| 3 | 43rd | " | " | 14 | 9th D.A. |
| 4 | 59th | " | " | 15 | 29th D.A. |
| 5 | 70th | " | " | 16 | 36th D.A. |
| 6 | 72nd | " | " | 17 | } War Diary |
| 7 | 77th | " | " | 18 | |
| 8 | 86th | " | " | 19 | |
| 9 | 87th | " | " | 20 | File. |
| 10 | Signal Officer H.A. | | | 21 | 407 K.B.S. |
| 11 | C.B.S.O. | | | | 17 do. |
| 12 | R.A. II Corps. | | | | |

Remain on HQ with O.C. 72 Bde between 11.02 to discuss operations.

CH/maur

SECRET.

Copy No. 2.....

23rd September, 1918.

IInd CORPS HEAVY ARTILLERY OPERATION ORDER No. 187.

1. H.A. Operation Order No. 185 is cancelled - Please destroy all copies.
2. The following is now substituted.
3. For Barrage and Bombardment purposes Lanes are as follows:-

LANE 1. 43rd BRIGADE, R.G.A. - covering the 29th Division front.

S. Boundary. - E. and W. Grid Line through I.22.b.68.20.

N. Boundary. - I.10.d.68.20. - J.8.c.68.20. - J.9.d.80.65.

LANE 2. 59th BRIGADE, R.G.A. - covering the 9th Division front.

N. Boundary. - G.29.c.0.0. - G.29.d.75.00. -
D.27.c.80.95. - D.23.d.40.00.

LANE 3. 70th BRIGADE, R.G.A. - covering the front of the Belgian Infantry Division on our left.

N. Boundary. - G.10.d.00.00. - D.7.c.70.00 to
PASSCHENDAELE Church.

4. For barrage and bombardment purposes

77th Brigade, R.G.A. will place 10 6" Hows. at disposal of 59th Brigade, R.G.A.

87th Brigade, R.G.A. will place 8 6" Hows. at disposal of 70th Brigade, R.G.A.

86th Brigade, R.G.A. will place 6 6" Hows. at disposal of 70th Brigade, R.G.A.

Command will pass at Zero hour, but necessary orders must be given beforehand by G.Cs. 59th and 70th Brigades.

5. The policy is that

Lane 1	should have	22 guns
Lane 2	"	30 guns
Lane 3	"	38 guns

Should any guns go out of action application must be made to this office for more guns.

6. All guns detailed for barrage must cover their respective Lanes and necessary alterations be carried out at once.

7. Acknowledge.

W. Munt
Major, R.A.,
Brigade Major IInd Corps H.A.

P.T.O.

APPENDIX

350

Copy No. 1. 3rd Brigade, R.G.A.

2. 36th " "

3. 43rd " "

4. 59th " "

5. 70th " "

6. 72nd " "

7. 77th " "

8. 86th " "

9. 87th " "

10. 9th Div. Arty.

11. 29th " "

12. 36th " "

13. O.S.S.O.

14. II Corps G.

15. II Corps R.A.

16. 9th Division.

17. 29th " "

18. 36th " "

19.) War Diary.

20.)

21. File.

Major, R.A.
Brigade Major, II Corps R.A.

350

APPENDIX

77
25

"C" FORM.
MESSAGES AND SIGNALS.

Army Form C. 2123.
(in books of 100.)

No. of Message.....

Prefix.....	Code.....	Words.....	Received.	Sent, or sent out.	Office Stamp.
			From... <i>HA</i>	Atm.	
Charges to Collect			By... <i>Kerr</i>	To	
Service Instructions				By	

Handed in at.....Office.....m. Received *1:10 p.m.*

TO

Kuge

* Sender's Number.

Day of Month.

In reply to Number.

AAA

*539**23**Cancel**HA**Order**Nº 185*

FROM

2nd CMA.

PLACE & TIME

1:10 p.m.

* This line should be erased if not required.

(3866.) Wt. W528/M1970. 100,000 Pads. 5/17. H. W. & V., Ltd. (E. 1213.)

APPENDIX

APPENDIX I

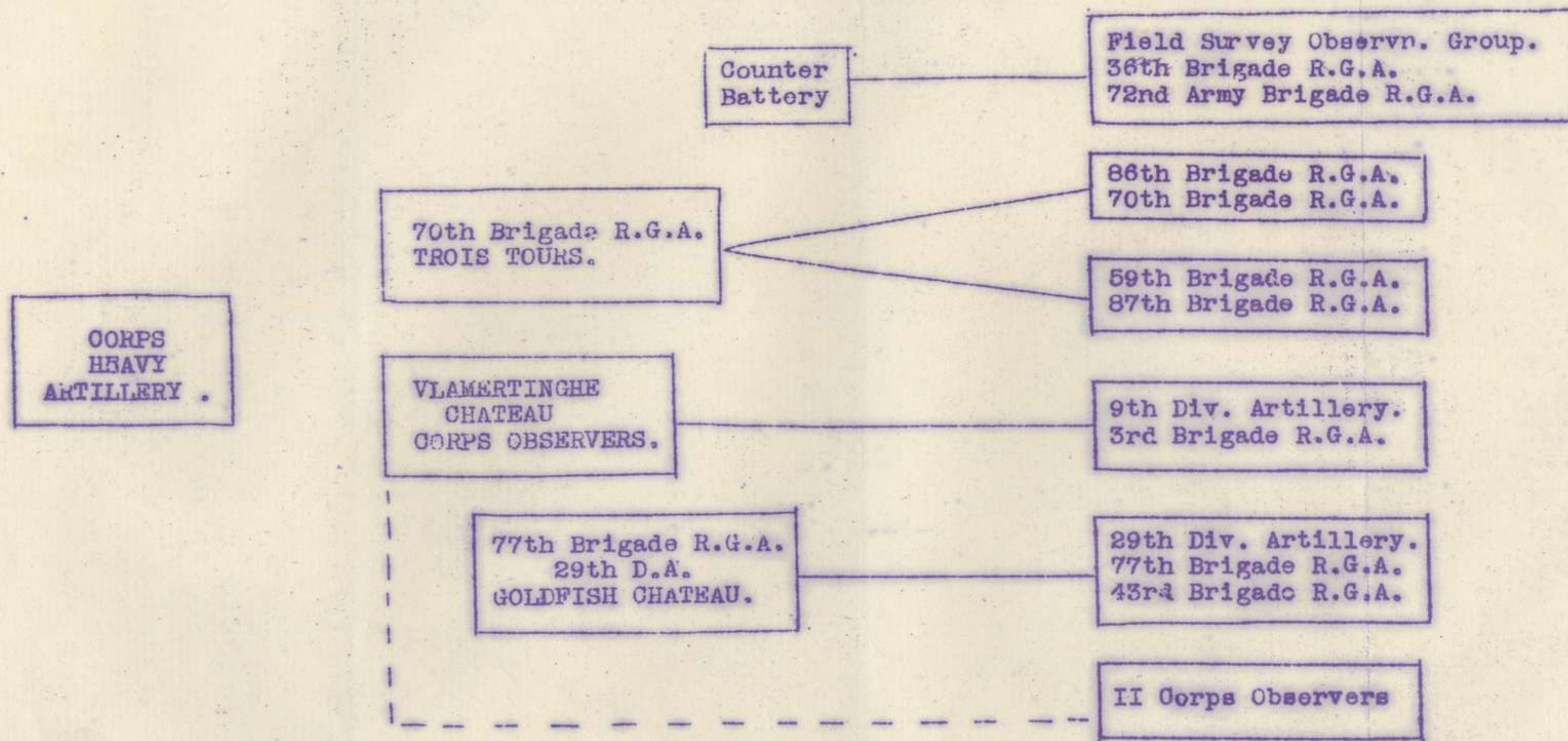
OUTLINE OF SCHEME FOR C.B. WORK ON J DAY.

1. ORGANIZATION. The C.B. Area is divided into three zones - each of which will be the normal zone of action of a Mixed Brigade. The 60-pdrs. of the Mobile Brigades and such long range guns and super-heavy howitzers as are available for C.B. work will be superimposed over the whole front. The three zones are :-
 - NORTHERN. Between Northern C.B. Boundary and POELCAPELLE - SPRIET Road.
 - CENTRE. Between POELCAPELLE - SPRIET Road and FREZENBERG - ZONNEBEKE Road.
 - SOUTHERN. Between FREZENBERG - ZONNEBEKE Road and Southern C.B. Boundary.
2. Air Cooperation. The 82nd Squadron will work over the Northern Zone, and one flight of the 7th Squadron each over the Centre and Southern Zones. Two machines from each flight will be in the air throughout the hours of daylight for the purpose of sending down Zone Calls. Batteries will answer all NF calls in their Brigade Zone, unless a large number are being received, in which case they will give preference to those which lie in their own sub-zones.
 Balloons will send down active batteries by wireless, and these calls will be treated in the same way as aeroplane calls. Deliberate shooting on active batteries will be carried out by A.N.F. method, but each machine will be given a battery which it can call on, if necessary, by M.Q.N.F. call.
3. Neutralisation. A neutralising programme will commence at Zero hour, in which it is hoped to employ one sub-section from each of two batteries on every hostile battery position.
 It will be possible to use 100% No. 106 Fuzes with H.E.
 Gas will not be used on positions which our troops may reach.
 As intelligence becomes available from the air, and other sources, the employment of the counter batteries will be adjusted accordingly.
 The positions suspected of having been prepared for covering the main line of resistance will be engaged as soon as our troops are due to be within range of them.
 Before Zero Hour, the enemy batteries which open fire in reply to the preliminary bombardment by the Belgians will be neutralised by batteries in original positions.
4. Communications. In the event of any difficulties of communication with Brigades and Batteries, orders will be sent out from the C.B. office by the Wireless Spark Transmitting Set installed there.

DIAGRAM OF CONTINUOUS WAVE WIRELESS SETS.

Appendix II.

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APPENDIX 27

SECRET.

Copy No. 2

22nd September, 1918.

IIInd CORPS HEAVY ARTILLERY OPERATION ORDER No. 185.

1. For barrage and bombardment purposes lanes are allotted as follows-

<u>43rd Brigade, R.G.A.</u>	<u>Lane 1.</u>
Southern Boundary.	E & W. Grid line through I.22.central.
Northern Boundary.	I.10.b.00.30. to J.7.b.00.40. to K.1.c.00.20.
<u>59th Brigade, R.G.A.</u>	<u>Lane 2.</u>
Northern boundary	C.29.a.00.60. to D.25.b.00.80. to E.19.a.00.50.
<u>70th Brigade, R.G.A.</u>	<u>Lane 3.</u>
Northern Boundary	C.10.d.00.00. to D.7.c.70.00. to PASSCHENDAELE CHURCH.

2. For barrage purposes

77th Brigade, R.G.A. will place 8 6" Hows. at disposal of O.C., 43rd Brigade, R.G.A.
87th Brigade, R.G.A. will place 10 6" Hows. at disposal of O.C. 59th Brigade, R.G.A.
86th Brigade, R.G.A. will place 6 6" Hows. at disposal of O.C., 70th Brigade, R.G.A.

Command to pass at Zero hour, but necessary orders being given by O.Cs. 43rd, 59th and 70th Brigades beforehand.

3. Lanes should be subdivided, each sub-lane being allotted to a battery^{or} to sections affiliated.

4. Acknowledge.

W. Mark
Major, R.A.,
Brigade Major IIInd Corps H.A.

Copy No. 1.	3rd Brigade, R.G.A.	Copy No. 16.	9th Division.
2.	36th "	17.	29th "
3.	43rd "	18.	36th "
4.	59th "	19.)
5.	70th "	20.) War Diary
6.	72nd "	21.	File.
7.	77th "		
8.	86th "		
9.	87th "		
10.	9th Div. Arty.		
11.	29th " "		
12.	36th " "		
13.	C.B.S.O.		
14.	II Corps G.		
15.	II Corps R.A.		

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=====

S E C R E T.

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Copy No. ².....

24th September, 1918.

AMENDMENT No. 1 to IInd CORPS HEAVY ARTILLERY
OPERATION ORDER No. 188.

1. Para. 9. delete "6 ieme Division d'Infanterie" and substitute
"6 ieme Division d'Armeo."
2. Para. 5. This does not refer to orders that may be given by
C.B.S.G. to 36th (Aust.) and 36th Brigades, R.G.A.
3. ACKNOWLEDGE.

A. W. Mack

Major, R.A.,
Brigade Major IInd Corps H.A.

To all recipients of Operation Order No. 188.

36 Bde RGA

JWH

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=====APPENDIX
S E C R E T.
=====

Copy No. 2

24th September, 1918.

IIInd CORPS HEAVY ARTILLERY OPERATION ORDER No. 188.
=====

(Reference attached Map
Scale 1/20000).

1. The II Corps on "J" Day is to capture the general line of the high ground running from the vicinity of J.19.a. and b - INVERNESS COPSE (J.14 c. and d.) - BLACK WATCH CORNER (J.15.a.) - POLYgone DE ZONNEBEKE - MOLENAARELSTHOEK - CYCLOPS (D.29.a.) to about point D.29.a.3.8.

After the capture of this line a further advance is to be made without delay to KRUISECKE, GHELUVELT and BECELAERE.

The date of "J" Day and the hour of Zero (i.e. "H" hour) will be communicated later.

2. The XIX Corps will be attacking on the right of the II Corps and is to capture the general line THE BLUFF - HILL 60 - OBSERVATORY RIDGE - vicinity of J.19.a. and b. subsequently advancing to ZANDVOORDE and the line of the YPRES - COMINES CANAL.

The BELGIAN ARMY (6me Division d'Armee) will be attacking on the left of the II Corps and is to establish itself on the general line BROODSEINDE - PASSCHENDAELE - STADENBERG - CLERKEN.

3. (a) The II Corps is attacking with the 9th and 29th Divisions in the line and the 36th Division in Reserve.

(b) The 29th Division will be on the right of the attack and advances from the front between the ETANG DE ZILLEBEKE and the YPRES - MENIN ROAD inclusive.

The 35th Division of the XIX Corps will be attacking on the right of the 29th Division.

(c) The 9th Division will be on the left of the attack and is advancing from the front YPRES - MENIN ROAD (exclusive) to the YPRES - POTIJZE Road (inclusive).

The 8me Division d'Infanterie of the 6me Division d'Armee will be attacking on the left of the 9th Division.

(d) The 36th Division is to be in reserve in the ST.JAN TER BIEZEN and HOUTKERQUE Areas ready from "Zero plus 2 hours", to move at one hour's notice.

4. Approximate boundaries between Corps and Divisions in the attack are as follows:-

Between:-

XIX Corps (35th Divn.)	{	Eastern Corner of ETANG de ZILLEBEKE - Northern edge of MAPLE COPSE - J.19.a.4.5. - J.19.central - Northern edge of STOUT WOOD - thence to P.6.central South of KRUISECKE.
and II Corps (29th Divn.)		

Between:-

JHA

Approximate boundaries between Corps & Divisions in the attack
(contd)

Between:-

29th Division
and
9th Division

{ YPRES - MENIN Road at HELL FIRE CORNER
{ (I.10.d.2.2) - Southern edge of BTANG
{ DE BELLEWARDE - JARGON CROSS Roads
{ (J.7.d.9.2.) - Southern end of POLYGONE
{ DE ZONNEBEKE at about point J.9.d.75.70.
{ and thence a line to point J.17.central.

Between:-

II Corps (9th Division) (MILL COTS (inclusive) I.B.a. - point
and (O.29.d.5.0. - point D.27.central -
8 me Division d'Armee (ZONNEBEKE (exclusive) - point D.29.
(8me Divn. d'Infanterie) (a.8.B.

Objectives in the attack are approximately:-

(a). 29th Division:-

The line of the high ground running from vicinity of
J.19.a. and b. - INVERNESS COPSE - Southern end of
POLYGONE DE ZONNEBEKE (J.9.d.): and the 29th Division
is to keep one Infantry Brigade in Reserve to exploit
success by a further advance without delay to TOWER
HAMLETS (J.21.c.) - GHIELVELT - POLDERHOEK (J.16.c.)
and subsequently to KRUISECKE.

(b). 9th Division:-

The line of the high ground running from Southern end of
POLYGONE DE ZONNEBEKE (J.9.d.) - MOLENAARSTOEK -
about point J.20.a.3.8: and the 9th Division is to
keep one Infantry Brigade in Reserve to exploit success
by a further advance to REUTEL (J.11.c.) - BECHLAERE -
NOORDEMOEK.

The advance is to be carried out under cover of a creeping
barrage to as far as the general line STIRLING CASTLE - CLAPHAM
JUNCTION - WESTHOEK RIDGE: and will be at the average rate of 100
yards in 3 minutes up to the general line SANCTUARY WOOD -
HOOGE CHATEAU WOOD - BELLEWARDE RIDGE - WILDEWOOD after which it
will be at the average rate of 100 yards in 5 minutes.

In front of the general line STIRLING CASTLE - WESTHOEK
RIDGE the advance will be covered by such artillery as is still
within range. This artillery will have time limits fixed after
which no artillery fire will be directed WEST of certain prearranged
lines except observed fire from Brigades affiliated to the attacking
infantry.

The forward moves of Heavy artillery will be by sections
of batteries at a time and will be ordered from this office.

All reinforcing batteries will remain silent until "Zero
Hour".

There will be no Preliminary Bombardment and everything
practicable will be done to avoid giving any indication before
"Zero hour" of an increase in Artillery on the II Corps front.

The 3rd Brigade, R.G.A. is affiliated to the 9th Division
and the 77th Brigade, R.G.A. to the 29th Division, and will be put
under the direct orders of Divisional Commanders by II Corps when
the situation demands.

The C.O. of each Brigade will establish his H.Q. with
Battle H.Q. of his Division.

3.

9. The 43rd Brigade, R.G.A. will cover the advance of the 29th division.

The 59th Brigade, R.G.A. and affiliated guns will cover the advance of 29th Division.

The 70th Brigade, R.G.A. and affiliated guns will cover the advance of the 8^{eme} Division d'Infanterie (Belge).

10. On orders being received to advance, Brigades will as far as possible advance along their own lanes.

11. ACKNOWLEDGE.

Q. H. M. A. T.

Major, R.A.,
Brigade Major IInd Corps H.A.

Copy No.	1.	3rd Brigade, R.G.A.
	2.	36th (Aust.) Brigade, R.G.A.
	3.	43rd Brigade, R.G.A.
	4.	59th " "
	5.	70th " "
	6.	72nd " "
	7.	77th " "
	8.	86th " "
	9.	87th " "
	10.	" "
	11.	C.B.S.O.
	12.	81eme Divn. I. (Belge).
	13.	36th Division G.
	14.	36th Div. Art.
	15.)	
	16.)	War Diary.
	17.	File.

MAP WILL FOLLOW.

APPENDIX

SECRET

Copy No. 2

24th September 1918.

IInd CORPS HEAVY ARTILLERY OPERATION ORDER No. 189.

1. For battle purposes the 8 C.W. Instruments belonging to H.A. are pooled - 4 sets being mobile and 4 stationary.
2. Normal working will be carried on till Zero minus 3 hours and no closing down signals will be sent.
3. At Zero minus 3 hours sets will be moved to battle stations as detailed in this order and attached diagram.
Operators will in every case accompany their own instruments and O.C. Signals at present in charge will ensure that 5 operators at least in addition to extra carriers accompany each mobile set.
Each mobile set party will be provided with waterproof sheets and two wooden boxes as a stand for sets.
4. Each set will retain its present call as below (see also attached diagram).
5. MOVES OF STATIONS & WAVE LENGTHS
 - (a) O.C., 27 O.G. is arranging transport to move M.V.D. (3rd Bde. R.G.A.) and operators to STRAY FARM where the station will be established.

O.C., 72nd Brigade R.G.A. will arrange transport for P.R.D. (Mobile) station and operators to point of assembly at STRAY FARM and moves forward under orders of O.C., 27 O.G.

These two stations will work with each other on a 1350 wave length metres
 - (b) Z.S.W. Station will remain at its present location under the orders of 59th Brigade R.G.A.

O.C. 3rd Bde R.G.A. will arrange transport for P.U.B. mobile station and operators to point of assembly at C.20. central. This station will move forward under orders of the O.C., 70th Bde. R.G.A.

P.U.B. will work with Z.S.W. on a 1260 metres wave length.
 - (c) O.C., 59th Bde. R.G.A. will arrange to transport Z.Q.X. mobile station and operators to point of assembly at I.1.b.8.4, whence the station moves forward under orders of O.C., 59th Brigade R.G.A.
Z.Q.X. will work with Z.S.W. on a 1260 metres wave length.
 - (d) 29th Div. Arty. are taking over M.Z.D. station from 43rd Brigade R.G.A. and are making necessary arrangements for transport.

O.C., 43rd Brigade R.G.A. will arrange to move C.X.C. mobile station and operators to Y Box (YPRES RAMPARTS) - C.X.C. will move forward from Y Box under orders of 29th Div. Arty. C.X.C. will work to M.Z.D. on a 1260 metres wave length.

/6.

6. All stations will be controlled by Z.Q.W. at II Corps H.A.H.Q.
7. Stations will be in position by H.Hour J Day (Zero.)
8. Fixed stations (Z.Q.W., M.V.D., Z.S.W., M.Z.D.) will intercept all messages sent on their own wave length. Messages so intercepted will be forwarded to destination marked "Intercepted by (call) wireless station". Operators must intercept and forward part messages. Two parts intercepted by 2 stations may provide the whole.
9. An operator unable to get a reply will send "F" messages remaining silent a few minutes between each repetition to obviate jamming.
10. Unnecessary calling is forbidden. Every effort must be made to avoid jamming.
11. No "Stores" message will be sent by wireless except in emergency by a Mobile Station.
12. A close Liaison must be established between the officers of the various units working with the same station.
13. Brigades as under will detail an Officer to be in charge of stations. He will be provided with a copy of "Points to be kept in view when choosing a site for a C.W. Station" and with "Mast Drill". Copies herewith.

O.C., No. 27	O.G. for P.R.D.set.
O.C., No. 27	O.G. for M.U.D.set.
70th Bde. R.G.A.	for P.U.B.
59th Bde. R.G.A.	for Z.Q.X.
29th Div. Arty.	for O.X.C.
86th Bde. R.G.A.	for Z.S.W.
77th Bde. R.G.A.	for M.Z.D.

It must be distinctly understood that the officer in charge of a C.W.set is in no way an F.O.O. or in charge of cable parties - visual transmitting stations etc.

14. Every station must keep a careful watch on its wave length. If M.V.D. or P.R.D. calls Z.Q.W. it will call on 1200 metre wave length.
Z.Q.W. will reply on 1350 metre wave length.
15. The ordinary rules regarding cypher and code will apply.
16. Mast aerials must invariably be erected by mobile stations and sites chosen according.
17. A wireless stores dump will be established by H.Hour J Day at VLAEMERTINGHE CHATEAU. Stations requiring stores should make sure they are available before sending for them.
18. Mobile stations will not move from points of assembly till Zero plus 3 hours.
19. ACKNOWLEDGE.

C/W Mast

Copy No.	Brigade Major H.A. II Ind Corps.
1. 3rd Bde RGA	5. 70 Bde. RGA.
2. 36th " "	6. 72 " "
3. 43rd " "	7. 77 " "
4. 59th " "	8. 86 " "
19. XIX Corps H.A.	9. 87 Bde. RGA.
20. XIX Corps H.A. Sigs	10. " " "
21. Liaison off. C.A. 6 DN	11. 29 D.A.
	12. C.E.S.O.
	12a) (
	13. A.D. Sigs.
	14.) H.A. Sigs.
	15.)
	16.)
	17. War Diary
	18. File
	22. OC. Wireless Sec. Army.

DRILL FOR ERECTING A TRENCH SET WITH 15 feet MASTS BY 3 MEN.

No. 1 - i/c Set.

All gear is placed near the position where the Station is to be installed.

No. 1 selects site for first mast and gives general direction of the aerial.

Erecting first mast.

No. 1 unpacks first mast.

No. 2 marks position for masts and tent pins, and assists No. 1 in straightening out guy ropes.

No. 3 drives in pegs, and then places mallet in mast position. During the time that Nos. 1 and 2 are straightening out guy ropes, No. 3 joins up segments, and erects mast when ready, and Nos. 1 and 2 fasten guys.

Running out aerial.

No. 1 holds aerial reel, giving one end of aerial to No. 3, who at once proceeds in the direction given by No. 1. No. 2 carries second mast, insulators, tent pins and mallet, and follows No. 3.

Erecting second mast.

Same as first mast.

At the second mast No. 3 attaches aerial wire to insulator and the insulator to halyard, hoists up the aerial, and makes fast the halyard round the mast. Nos. 1 & 2, followed by No. 3 go to the first mast, taking with them all surplus gear.

Connecting up the set.

At the first mast the aerial wire is fastened to the insulator, and the insulator to the halyard and hoisted up by No. 2. No. 1 connects lead in wire to aerial and connects up the set; No. 3 lays out the earth net. All surplus gear will be placed near set.

Dismantling Station.

No. 1 disconnects the set and places it in a safe place. At the same time Nos 2 and 3 detach aerial from halyards and insulators, and roll up earth net.

Taking down first mast.

Nos. 2 and 3 loosen guys; No. 1 lowers mast; No. 3 withdraws tent pins and collects mast sections. No. 1 rolls up guy ropes and is assisted by No. 2 in packing mast into its carrier.

Taking down second mast.

Same as first.

Aerial wire is then drawn in and reeled up by No. 3.

P.T.O.

APPENDIX

POINTS TO BE KEPT IN MIND WHEN CHOOSING THE SITE
FOR A C.W. STATION.

1. Do not fix up a Wireless set within 500 yards of another Wireless set, otherwise each will interfere with the other. (No interference will however be caused by the Short Wave Tuners used by the R.A.F. for receiving spark signals and a C.W. set will not interfere with them.)
2. Do not fix up a C.W. set too close to a Signal Office or an air line route. There should be no inductive effects if the distance is 100 yards.
3. Do not fix up a C.W. set within 500 yards of a Power Buzzer or Amplifier.
4. Your aerial should normally be directional to the most important of the Stations you are working to and your instrument should be at the end nearest to that Station. A good deal however will depend upon the distances to the various Stations. The greater the distance the more will be the need for direction.
5. A screening effect is caused upon signals by houses, huts (especially iron huts) trees, high hedges etc., if these are close to your aerial, and between it and the Station you are working to.
6. Keep the set and batteries off the ground. Fix up some form of table and have an air space immediately below the set.

350

APPENDIX

R.O. 22/5.

No.³⁶.....Brigade R.G.A.

Herewith one copy of Notes on condition of KNOLL ROAD,
PLUMERS DRIVE, and MORLAND AVENUE. (From latest
aeroplane photographs).

KNOLL ROAD from I.22.b.8.4 - I.29.a.60.45.

Metalled Road, in fair condition; would be
passable for single horse traffic after about 8 shell
holes between I.22.d.8.9 and I.23.c.1.3 were filled in.

PLUMERS DRIVE, I.23.c.10.55 - I.24.d.2.3 - J.13.a.3.3.

Double-breadth plank road from I.23.c.10.55 - I.24.c.
30.50; very badly damaged by shell-fire and completely
obliterated in several places; from I.24.c.3.5 - J.13.a.
30.30 road is single-breadth plank; badly broken up from
I.24.c.3.5 - I.24.d.2.3; thence to J.13.a.3.3 not much
damaged, and passable for single-horse traffic after
slight repairs.

MORLAND AVENUE, I.29.a.60.45 - J.19.c.0.0, thence through

J.19.c. & d. - J.26.a. & b. - J.21.b.35.10. From
I.29.a.60.45 - I.30.b.0.5 this is a plank road, -
double-breadth from I.29.a.60.45 - I.29.b.1.4, thence
to I.30.b.0.5 single breadth; badly smashed by 12"
How. shells at I.29.a.75.45 and from I.30.a.0.2 - 3.2;
otherwise in fair condition; from I.30.b.0.3 - J.21.b.
35.10 metalled road in good condition, fit for one-way
motor traffic from I.30.b.0.5 - J.19.c.0.0, and for
two-way motor traffic thence to J.21.b.35.10.

24th September, 1918.

ASM

R.O.H.A.

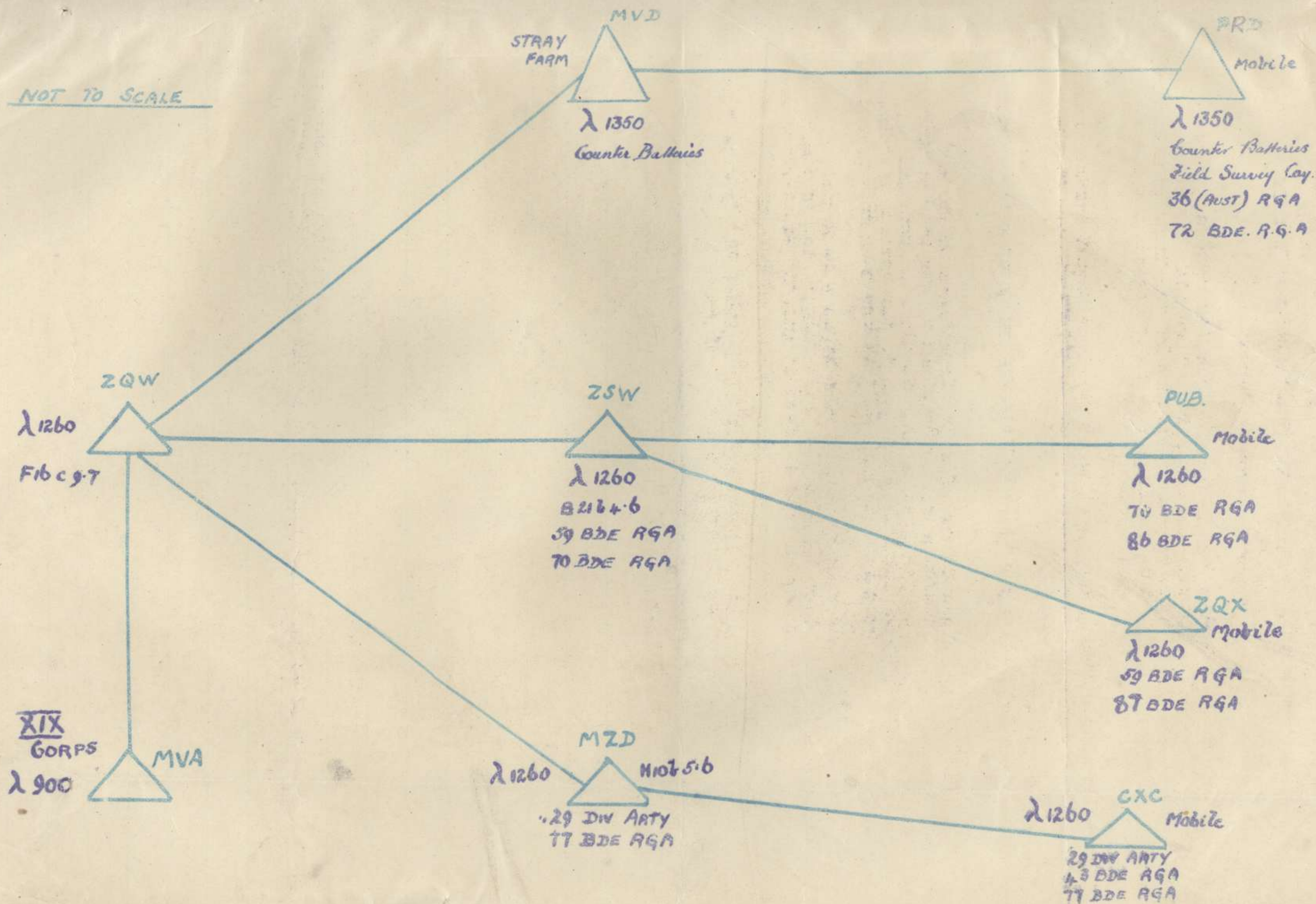
Lieut, R.A.
II Corps.

Copy to :-

B.M. H.A.
C.B.S.O.

J.H.H.

NOT TO SCALE



350

APPENDIX

87

APPENDIX

SECRET.

II Corps H.A.

B.M. 822.

24th Sept. 1918.

No. 43rd Brigade R.G.A.

Reference attached :-

1. The O.C., 43rd Brigade R.G.A has detailed an officer (Lieut. DRYDEN) to be in charge of one party detailed in para. 3.

The other two parties are being detailed by Divisional Artillery.

2. The officer i/c of the H.A. party will be provided with two signallers to help him by the 43rd Brigade, R.G.A.

3. All instructions have been given verbally by O.C., 2nd Balloon Wing, to 2/Lieut. DRYDEN.

4. 43rd Brigade, R.G.A will report to this office if 2/Lieut. DRYDEN has drawn the "ALDIS" Lamp, and is provided with all necessary stores.

W. M. A. T.

Major, R.A.

Brigade Major., II Corps H.A.

Copies to :-

3rd Brigade R.G.A.)
59th Brigade R.G.A.)
72nd Brigade R.G.A.)
38th Brigade R.G.A.)
70th Brigade R.G.A.)
77th Brigade R.G.A.)
86th Brigade R.G.A.)
87th Brigade R.G.A.)
C.B.S.O.)

For information.

W. M. A. T.

INSTRUCTIONS FOR MOBILE OBSERVATION

GROUP AND ATTACHED F.O.O's.

1. The 1st rendez-vous will be arranged by O.C. No.27 Group at or near STRAY FARM 28/C.3.c.2.8. The party will consist of officers and men detailed by O.C. No.27 Group; 2 officers and 8 men detailed by 36th Brigade; and 2 officers and 8 men detailed by 72 Brigade, equipped with wire, linesmen's repairing kit, lamp signalling, pigeons; 5 wireless operators detailed by Signals; and one each detailed by 36th and 72nd Brigades.

2. Each officer will see that the men under his orders are properly equipped with 2 days rations; and each man will be detailed to carry forward certain signal stores or observation instruments. In addition, O.C. No.27 Group will detail 2 men to assist in carrying forward the C.W.W. Set. The C.W.W. Receiving Set will at once be established at STRAY FARM.

3. O.C. No.27 Group will keep closely in touch with the progress made by the Allied infantry immediately any movement takes place, and will send parties forward under an officer as soon as the tactical situation permits.

One officer of the 36th Brigade will commence to reel out lines between STRAY FARM and MONT de HIBOU (C.6.c. sheet 28).

One officer of the 72nd Brigade will take steps to establish lamp signalling between STRAY FARM and MONT de HIBOU. One officer from each Brigade will go forward with an officer of No.27 Group to establish O.Ps on 19 METRE HILL (U.18.d. sheet 20), PHEASANT FARM (U.30.b), and WURST FARM (D.7.d.8.9).

A line will be laid out without delay between 19 Metre Hill, via PHEASANT FARM, and another line from WURST FARM, to the advanced Group H.Q. at MONT de HIBOU; but lamp signalling will be first established by Brigade signallers until telephone communication has been established.

When all lines are completed relay posts will be established for the purpose of maintaining communication, and a second line immediately laid between STRAY FARM and MONT de HIBOU. As soon as possible arrangements should be made for the establishment of a Buzzer Exchange so that C.B. Batteries coming up to forward positions may lay lines into the Exchange for the purpose of obtaining observation on fleeting targets.

4. When the situation permits a party will be sent out to reconnoitre with the view of advancing the post from PHEASANT FARM to a point on the 25 Metre Hill in V.20 (Sheet 20).

5. The Group will keep closely in touch with the progress made by our infantry with a view to establishing observation from the PASSCHENDAELE RIDGE. Immediately the O.C. No.27 Group considers this possible he will send a message to O.C. No.1 Group whose advance party will be at STRAY FARM under an officer.

The O.C. No.1 Group will then order his party forward to occupy the observation base already established between 19 Metre Hill and WURST FARM and bring with them 5 miles of wire for No.27 Group to carry forward.

6. O.C. No.1 Group will then prepare to obtain observation from the PASSCHENDAELE RIDGE, or as the situation permits, keeping closely in touch with No.27 Group thro' flank O.Ps.

7. Brigade.....

8/11/18

7. Brigade F.O.O's will keep in touch with O.C. Groups, and co-operate in every way possible in maintaining communication. All information regarding Active Hostile Batteries will be sent direct to Brigades as well as to C.B.S.O.

Batteries of the 36th and 72nd Brigades should be ranged whenever a favourable opportunity occurs, but posts must not be monopolized for ranging; and as soon as a few rounds have been located and the guns are approximately ranged, with two or three line observation, Brigades officers should continue the shoot with single line observation.

8. The C.W.W. Set will probably move with No.1 Group as soon as they come into action on a forward base; but immediate steps must be taken by Group Commanders to establish communication through their flank O.Ps, so that intelligence from both Groups may get back to Corps and Brigades through the same C.W.W. Set.

9. All officers must bear in mind that their first duty is to locate active hostile batteries, and any information such as Sound Bearings are better than no information at all. It is also very important to send back as much information as possible as to the areas shelled, and general intelligence as to the progress made by our troops and those of our Allies on the left.

10. The officers at Group Exchanges and Report Centres will keep diaries showing the time messages were received and how they were dealt with, and copies will be sent to the C.B. Office and M.A.S. daily. A separate diary should be kept by O.C. Groups showing times when observations were commenced and new Posts and Forward H.Q. established.

11. The lines of posts indicated will form the successive objectives, but will be varied according to the discretion of O.C. No. 27 Group to meet the tactical situation.

350

APPENDIX

=====

SECRET.

=====

Copy No. 2....

25th September, 1918.

=====

IInd CORPS HEAVY ARTILLERY OPERATION ORDER N. 190.

=====

1. In forthcoming operations if brigades are ordered to move forward they will move 6" Hows. and 5C-pdrs. only. All 9.2" Hows. and 8" Hows. will be parked and pass under the command of Major BUNBURY, D.S.O., R.G.A., who will form a temporary Brigade.
2. Personnel of V/II Heavy Trench Mortar Battery should be organised and sent forward to man and use captured German guns.
3. All F.O.O. parties, C.W. set parties etc. must be armed and carry full water bottles and two days rations.
4. S.O.S. Lines after the capture of the first objective will be the line of the final protective barrage.

After advance from this objective there will be no S.O.S. except as arranged by Divisions with their affiliated Brigades..
5. Belgian signals etc. should be known by all F.O.O. parties. These will be sent later.

6. Acknowledge

Almunt

Major, R.A.,
Brigade Major IInd Corps H.A.

- | | | |
|----------|--------|-------------------|
| Copy No. | 1. No. | 3 Brigade, R.G.A. |
| | 2. No. | 36 " " |
| | 3. No. | 43 " " |
| | 4. No. | 59 " " |
| | 5. No. | 70 " " |
| | 6. No. | 72 " " |
| | 7. No. | 77 " " |
| | 8. No. | 36 " " |
| | 9. No. | 67 " " |
| | 10. | C.B.S.O. |
| | 11.) | War Diary. |
| | 12.) | |
| | 13. | File. |

7/11/18

APPENDIX

S E C R E T
=====Copy No. ².....

26th September 1918.

IIInd CORPS HEAVY ARTILLERY OPERATION ORDER No.191.
=====

1. In continuation of Heavy Artillery Operation order No.188 the action of II Corps Heavy Artillery on "J" day will be as follows:-

2. ZERO hour will be known as "H" hour.

3. 43rd Brigade R.G.A.

(a). The 43rd Brigade R.G.A. will bombard the targets encircled in GREEN (see attached map "A") with 6" Hows. from "H" minus 5 minutes to "H" hour, and the circle marked in RED with 9.2" Hows. from "H" minus 5 to "H" plus 40.

(b). At "H" hour the 6" Hows. will lift on to the targets marked in VIOLET.

(c). At "H" plus 40 the 9.2" Hows will lift on to the targets marked in VIOLET.

(d). At "H" plus 78 the guns will begin to lift off the targets marked in VIOLET and form up on the barrage line (marked RED) between J.20.central and J.8.d.6.8 - the 9.2" Hows. being 200 yards in advance of this line.

(e). All guns will be on this (RED) line by "H" plus 158.

(f). The times marked against the targets on map "A" are the times guns should lift.

(g). There will be no firing from "H" plus 158 to "H" plus 175.

4. 43rd Brigade and 77th Brigade R.G.A.

(a). At "H" plus 175 the 77th Brigade R.G.A. will join the barrage on the 29th Division front with the following guns:-

26 Heavy Bty.
2 guns of 119 Siege Bty.
191 Siege Bty.
286 Siege Bty.

(b). At "H" plus 175 and till "H" plus 190 the 43rd Brigade R.G.A. and the guns of 77th Brigade R.G.A. mentioned above will form a barrage along the RED line shown on map "B" from J.8.d.4.3 to J.26.b.7.7 - 9.2" and 8" Hows. being 200 yards in advance and will then advance as a modified creeping barrage paying special attention to occupied areas.

(c). The rate of advance will be 200 yards in 8 minutes until the 254 line is reached and after that 200 yards in 6 minutes.

(d). Occupied areas are shown in RED on maps "B" (issued to 43rd and 77th Brigades) and a list of occupied pill boxes is given in appendix A

/4.(e)

(e). All gun fire should be EAST ^{of} the RED lines at the times indicated.

(f). All fire except observed fire will cease at "H" plus 294

(g). From "H" plus 175 the Infantry will have the support of the Heavy Artillery only as the Field Artillery will for the most part be non-effective owing to range. Great care should therefore be exercised.

(h). Rates of Fire will be:-

6" How.	1	round	per	2	minutes
9.2" How.	1	"	"	3	"
60-Pdr.	1	"	"	2	"

4. 59th Brigade R.G.A.

(a). The 59th Brigade R.G.A. and affiliated guns will form a creeping barrage 300 yards in advance of the Field Artillery and advance in jumps of 200 yards as shewn on map "A" until the RED line 168 - 173 is reached.

(b). From "H" plus 173 to "H" plus 185 the 59th Brigade R.G.A. will bombard the areas marked on map "A" as A. B. C.

(c). At "H" plus 185 the 59th Brigade R.G.A. will form their fire on the RED line marked 185 - 190 and wheeling in 200 yard jumps to the line 234 will form a creeping barrage as indicated on map "B" till "H" plus 349 is reached when fire will cease.

(d) From "H" plus 185 to "H" plus 349 the infantry will have the support of the Heavy Artillery only and great care must be exercised.

(e). After "H" plus 349 no shooting but observed shooting will be carried out unless S.O.S. is ordered from this office when a protective barrage will be put down on the 349 line.

(f). At "H" plus 242 - 26 Heavy battery and 48 Heavy Battery will be placed at the disposal of O.C., 59th Brigade R.G.A. who will issue the necessary orders in advance.

(g). Rates of fire will be:-

6" Hows. & 60-Pdrs.	1	round	per	2	minutes.
8" Hows.	1	"	"	3	minutes.

except from plus 68 to plus 138 when batteries will quicken to 1 round per 6" How. as they successively arrive on and cross the FREZENBERG - WESTHOEK Ridge.

5. 70th Brigade R.G.A.

(a). The 70th Brigade and affiliated guns are covering the front of the 6me D.A. Belge and will take action as under:-

(b). Tracing "C" attached shews all targets, and the times marked against them shews the time that guns should lift from the target.

(c). The BLUE circles show targets and times for concentrations on areas. All guns under command of 70th Brigade that can reach, should lift off their Bombardment tasks and concentrate on these areas - returning on completion to their Bombardment tasks.

(d). All targets W. of the BLUE line should be simultaneously engaged at "H" hour minus 180.

(e). At "H" hour the Belgian infantry will commence to advance and guns should lift from their targets to other targets E. of the BLUE line.

The principle to be remembered is that 8" or 9.2" Hows. should keep 200 yards further E. than 6" Hows.

(f). The jumping from target to target will continue and at "H" plus 163 fire of the guns should begin to arrive on the RED line - At "H" plus 185 all guns under the 70th Brigade should have reached the RED line.

(g). A slow bombardment of this line will continue until the Commander of the 6ieme D.A. Belge fixes a new ZERO Hour to be known as "H'".

(h). At H' batteries will lift and proceed as indicated on tracing "C".

(i). At H' plus 40 all firing will cease unless observed but batteries will be in readiness if called upon to open fire on a protective S.O.S. barrage indicated by the RED dotted line 700 yards E. of the objective.

(j). The objective of the Belgian Infantry is indicated by a double BLUE and RED line.

(k). It is to be understood that the 6ieme D.A. Belge will endeavour to exploit a success and will be pushing out patrols E. of the objective.

For this reason no shooting but observed shooting will be done after H' plus 40 unless an S.O.S. barrage is ordered from this office.

(l). At H' hour the following 60-Pdr. batteries are placed at the disposal of 70th Brigade.

1/1 Wessex Heavy Battery.
141 Heavy Battery.
154 Heavy Battery.
156 Heavy Battery.

C.O., 70th Brigade will issue necessary orders in advance for Bombardment and S.O.S. barrage to these batteries.

(m). Rates of fire will be:-

6" Hows.	}	1 round per 2 minutes.
60-Pdrs.		
9.2" Hows.	}	1 round per 3 minutes.
8" Hows.		

(n). During Bombardment of RED line until H' is known rate of fire of all guns will be 1 round per 10 minutes.

(o). When time of H' is known orders as to rate of fire will be given from here.

P.T.O.

6. 9.2" Hows and 8" Hows will not fire close to Divisional or inter-Corps Boundaries as troops of one Division may be ahead of those of another.

7. ACKNOWLEDGE.

G. H. Mait

Major R.A.

Brigade Major H.A. II Corps.

Copy No.

1. 3rd Brigade RGA. (Maps attached.

2. 36

3. 43

4. 59

5. 70

6. 72

7. 77

8. 86

9. 87

10. C.B., S.O.

11. R.A., IInd Corps.

12. 9th D.A.

13. 29th D.A.

14. 36th D.A.

15. XIXth Corps H.A.

16. C.A. 6 D.A.

17. Liaison Officer H.A.

18. War Diary.

19. File.

20. File.

* To follow.

1/1 Heavy Battery.

1/2 Heavy Battery.

1/3 Heavy Battery.

1/4 Heavy Battery.

For bombardment and 2.0.8. battery to these batteries.

(c). Rates of fire will be:-

1 round per 2 minutes.

1 round per 2 minutes.

1 round per 2 minutes.

1 round per 2 minutes.

(d). During bombardment of RGA line until it is known that of this of all guns will be 1 round per 10 minutes.

(e). When time of it is known orders as to rate of fire will be given from here.

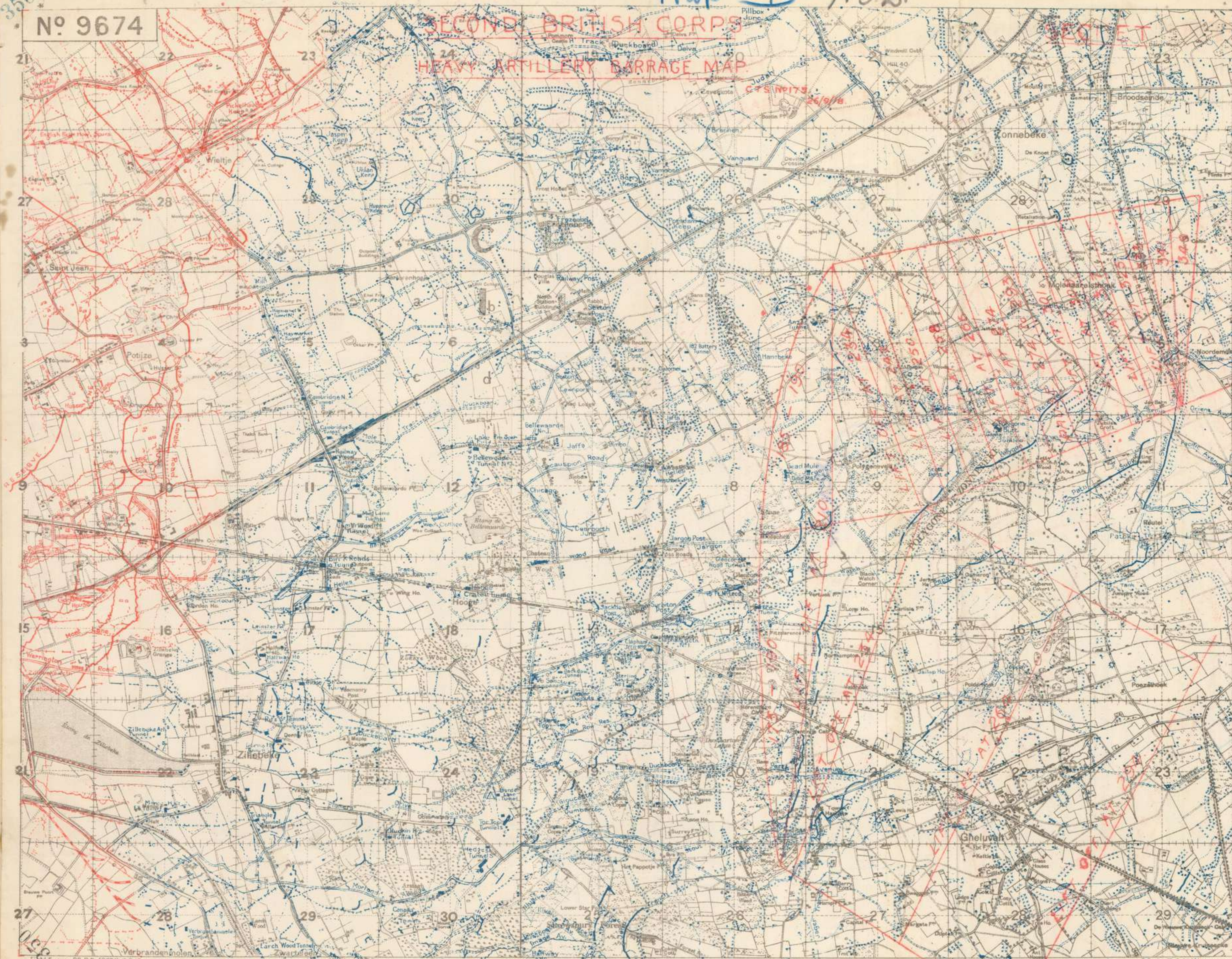
350

Nº 9674

Map B No. 2.

36

SECOND BRITISH CORPS
HEAVY ARTILLERY BARRAGE MAP



Field Survey B. R.E. (9674) 19.9.18.

Note: Change of colour
British Trenches - Red
German " " - Blue

SCALE 1:20,000
Metres 1000 500 0 1000 2000 3000 Yards

Parts of Sheets 28 N.E. & N.W.
Trenches corrected from information received up to 21.9.18.

C.T.S. Nº 173

25-9-78

SECRET



Trenches corrected from information received up to 21-9-18.

RECEIVED
1944
1945

350

1948

APPENDIX

SECRET.

II Corps, G.S.2/1.
26th September, 1918.

H.A.

1. The Belgians are making use of three searchlights on "J"/"J" plus 1 night to assist their troops in getting their "bearings".
2. The southernmost of the three will be established at MOUSE TRAP FARM, C.22.b. and its beam will be directed on ZONNEBEKE CHURCH. The beam will move up and down on this line in a vertical sense.
3. The searchlight at MOUSE TRAP will have double the power of the other two and will therefore be easily distinguishable.

Sgd./ S.H.WILSON, B.G.G.S.

2.

II Corps H.A.
B.M.839.

No. 36 Brigade, R.G.A.
=====

For information.

27/9/18.

O's C. 1st Aust Siege Battery.
2nd Aust Siege Battery.
155 Siege Battery RGA.
353 Siege Battery RGA.
140 Heavy Battery RGA.
151 Heavy Battery RGA.

Major, R.A.,
Brigade Major IInd Corps H.A.

36TH
(AUSTRALIAN) BDE..
R.G.A.

00/102/5

DATE

S E C R E T.

=====

II Corps H.A.

B.H. 824.

No. 36 Brigade R.G.A.

The following forwarded for information :-

CONTROL OF BELGIAN TRAFFIC ON "Y/Z" NIGHT.

Each Belgian Division will as far as possible circulate in its own area, the following being the roads allotted :-

6 D.I.	WOESTEN-ELVERDINGHE, BOESINGHE-CACTUS BRIDGE Rds.
12 D.I.	STEENJE-ELVERDINGHE, MALAKOFF-BOESINGHE STATION - BRIDGE 4 Road.
8 D.I.	HOSPITAL FARM - MALAKOFF - BRIELEN - BRIDGE ² Road.

Belgian Military Police will be stationed in ELVERDINGHE to direct the traffic, which will be allowed to double bank on the way up between the cross roads.

All the transport of the first line of Divisions must have passed this point by midnight; it is only then that the second line may proceed.

Infantry will move up by tracks, and will not be allowed through ELVERDINGHE cross roads.

Chlmant
 Major, R.A.
 Brigade Major., II Corps H.A.

YATA

350

Copy No. 2

27th September 1918.

ADDENDA & CORRECTION No.1 to II Corps H.A.Operation Order No.191.

- 1. Correct all paras to read consecutively - there are at present two paras 4.
- 2. Map "C", target at C.13.central. Time should read "H" plus 53 instead of "H" plus 153.
- 3. Para. 3 (i). For "H" plus 78 read "H" plus 73
For J.3.d.6.8 read J.8.d.6.4
- 4. Times of Barrage on 29th Divisional Front on Map "A" as issued to Division are altered as follows:-

Minus	5	to	0
	0	-	6
	6	-	12
	12	-	21
	21	-	24
	24	-	30
	30	-	33
	33	-	45
	45	-	53
	53	-	63
	63	-	73
	73	-	83
	83	-	88
	88	-	93
	93	-	113
	113	-	123
	123	-	133
	133	-	143
	143	-	153
	153	-	163
	163	-	168

also Bombardment of A.B.C., 168 to 185.

- 5. Para.5.(f) for 26 Heavy Bty. read 9 Heavy Bty.
Para.5.(c) after 135 - 190 insert (see Map "B")
- 6. For barrage and bombardment purposes 60-Pdrs.will fire H.E.only.
- 7. F.O.Os.should be warned that negative information is of value and that all messages should be timed.
- 8. The following light signals will be used by the 9th Division.
By day
RED SMOKE RIFLE GRENADE = Artillery support required.
BLUE SMOKE RIFLE GRENADE = objective gained.
By night.
GREEN over GREEN over RED = S.C.S.
- 9. Tactical control of 3rd and 77th Brigades R.G.A. will pass to G.O.C. Divisions at "H" plus 178.
- 10. Para.5 (e) amend to " a protective barrage will be put down 450 yards EAST of the 349 line.

MAA

APPENDIX

350

"2"

11. ACKNOWLEDGE.

Allman

Major R.A.,
Brigade Major H.A.II Corps.

Copy No.

1. 3rd Brigade RGA
2. 36th " "
3. 43rd " "
4. 59th " "
5. 70th " "
6. 72nd " "
7. 77th " "
8. 86th " "
9. 87th " "
10. C.B.S.O.
11. R.A.IIind Corps.
12. 9th D.A.
13. 29th D.A.
14. 36th D.A.
15. XIXth Corps H.A.
16. C.A.6 D.A.
17. Liaison Officer H.A.
- 18.) War Diary
- 19.)
20. File.

1. Pill-box J.19.b.7.1. (if safe).
2. Trenches at J.20.d.35.70.
3. Pill-boxes and Trench about J.20.b.65.40.
4. PAYTIS SUPPORT from J.20.b.95.50. - 9.0.
5. Trench junction J.20.d.90.95.
6. PERTH AVENUE from J.21.c.8.7. - 0.9.
7. Trenches and high ground in area J.20.d.5.5. - J.26.b.5.7. - J.27.a.4.7. - J.21.c.5.5.
8. POLDERHOEK RESERVE from J.21.a.05.75. - J.15.c.2.2. and pill-box at J.15.c.25.35.
9. Pill-boxes and trench from J.21.b.1.0. - 4.3.
10. Pill-boxes at J.15.c.0.3.
- 10a. Pill-boxes from J.15.d.4.7. - 5.4.
11. Pill-boxes and trench from J.15.c.1.7. - 25.35.
12. Pill-boxes at CARLISLE FM. J.15.b.25.30.
13. Pill-boxes at J.15.b.55.70.
14. Pill-boxes from J.16.a.15.10. - J.16.c.1.8.
15. Trenches in area J.16.c.7.6. - 15.10. - 5.0. - 8.4.
16. Pill-boxes and trenches in area J.16.c.1.4. - 3.4. - 2.0.
17. PAKAKURA SUPPORT from J.10.c.6.0. - J.16.a.00.65.
18. Northern half of CAMERON COVERT in area J.16.a.6.9. - 6.5. - J.16.b.5.3. - 3.9., with special attention to Western edge of wood and trench at J.16.a.9.9.
19. Pill-boxes at J.10.c.5.3.
20. Trench from J.21.b.88. - 6.4.
21. Pill-boxes J.21.d.8.8.
22. Pill-boxes J.21.d.15.30.
23. Pill-boxes about J.27.d.3.8.
24. Pill-box at J.28.a.60.45.
25. Area J.22.c.8.5. - 7.4. - J.22.d.1.2. - 2.4.
26. Pill-boxes at J.22.b.70.05.
27. Pill-boxes from J.23.d.1.7. - 3.9.
28. Pill-boxes on either side of Road at J.22.d.6.3. - 5.0.
29. Pill-box at J.23.c.6.1.
30. Pill-boxes at J.29.a.40.35.

SECRET

II CORPS COUNTER BATTERY OPERATION ORDER No.88.
= * = * = * = * = * = * = * = * = * = * = * = *

- 3 Brigade.
- 43 Brigade.
- 59 Brigade.
- 72 Brigade.
- 36 Brigade.
- 70 Brigade.
- 77 Brigade.
- 86 Brigade.
- 87 Brigade.
- & Batteries.
- - - - -

1. On 'J' day the II Corps and the 6th and 3rd Belgian D.A's will attack the PASSCHENDAELE RIDGE.

2. Hostile batteries as detailed in the attached 'Battle Neutralization Programme' will be neutralized at the following rates:-

H - 180'	to H - 120'	Slow.
H - 120'	to H - 10'	Very slow.
(During this period batteries will be ordered to quicken up if any heavy retaliation results from the preliminary bombardment).		
H - 5'	to H plus 10'	Intense.
H plus 10'	to H plus 25'	Normal.
H plus 25'	to H plus 43'	Slow.
H plus 44'	to H plus 50'	Intense.
H plus 50'	to H plus 77'	Bursts at irregular intervals.
H plus 77'	to H plus 82'	Intense.
H plus 82'	to H plus 112'	Bursts at irregular intervals.
H plus 112'	to H plus 115'	Intense.
H plus 115'	to H plus 147'	Bursts at irregular intervals.
H plus 147'	to H plus 152'	Intense.
H plus 152'	to H plus 190'	Bursts at irregular intervals.
H plus 190'	to H plus 195'	Intense.
H plus 195'	onwards.	Very slow.

Howitzers will use 106 fuze only; and 60-pounders will use 50% shrapnel and 50% H.E. with 106 fuze.

The time at which fire must cease on each target in order not to endanger our own infantry, is given in the Battle Neutralization Programme.

Attention is drawn to the rates of fire laid down in Para.10 of C.B.S.O.1 and especially to the fact that 'slow' and 'very slow' must be at an irregular rate.

3. From daylight onwards two aeroplanes per Brigado zone will be in the air for the purpose of sending zone calls. When all active batteries have been reported by N.F. call they will proceed to engage persistent hostile batteries with observed fire.

This deliberate.....

APPENDIX

-2-

This deliberate shooting will be carried out by the A.N.F. method; but in case of necessity the following batteries are detailed for M.Q.N.F. shooting.

'A' Flight	82nd Squadron R.A.F.	-	1st Aust. S.B. and 378 S.B.
'C' Flight	7th Squadron R.A.F.	-	21 S.B. and 104 S.B.
	-do-	-	191 S.B. and 65 S.B.

The Kite balloons will also send down wireless calls which will be treated in the same way as aeroplane calls.

4. Brigade Commanders will ensure that all batteries reported active from the air are vigorously engaged, and that they are kept under fire until they are reported to have ceased firing, or until they may be presumed to have become inactive owing to the approach of our infantry.

They must use their own discretion as to the number of guns they should detach from the Battle Programme, in accordance with the intelligence being received with regard to batteries actually active in their zone. In the case of really good visibility the Battle Programme can be abandoned altogether, provided that no guns are left idle.

5. A Counter Battery Report Centre and C.P. Exchange will be established at STRAY FARM in charge of Captain BELL, F.S.B. Observing parties from the F.S.B; 36th and 72nd Brigades R.G.A will be pushed forward with the line 19 Metre Hill (U.18) - Hill 32 (D.8) as their first objective, and the PASSCHENDAELE RIDGE as their second objective.

The forward Observation Posts will, in addition to locating active hostile batteries, send in reports with regard to areas shelled (with Sound bearings), and information as to progress of our infantry.

They will also report fleeting opportunities, and when possible engage them with batteries of their own Brigade.

All messages will contain the time at which they are despatched; and officers will be reminded of the importance of negative information.

Separate instructions have been issued with regard to the communications (wireless, telephonic, and visual) to be maintained.

6. Zero hour ('H') will be communicated by the Brigade Major, by whom, also, watches will be synchronized.

7. A C K N O W L E D G E.

Lieut-Col, R.A.

26/9/18.

for G.O.C.H.A. II Corps.

Copies to-

II Corps R.A.	1 Obs. Group.
II Corps H.A.	3 Obs. Group.
7 Squadron R.A.F.	S Section Sound Rangers.
82 Squadron R.A.F.	I Section, do
7 Balloon Coy.	GG Section, do
17 Balloon Coy.	9 Division.
C.B.S.O. XIX Corps.	29 Division.
A.L.O. C.A.6.D.A.	9 Div. Artillery.
A.L.O. C.A.3.D.A.	29 Div. Artillery.

BATTLE NEUTRALIZATION PROGRAMME

to accompany C.B.O.O.88.

36th BRIGADE, R.G.A.

<u>Battery.</u>	<u>First target.</u>	<u>Time to cease fire on 1st t'gt.</u>	<u>Second Target.</u>	<u>Time to cease fire on second t'gt.</u>
		<u>Left area.</u>		
2nd Aust. (9.2" How).	U.B.52.	H plus 75.		
	U.B.71.	H plus 45.		
	U.B.81.	H plus 70.		
	V.A.31.	H plus 120.		
	V.A.71.	H plus 135.		
	V.C. 2.	H plus 120.		
1st Aust. (8" How).	P.C.62.	H plus 135.	P.C.74.	H plus 160.
	P.C.63.	H plus 135.		
	P.C.73.	H plus 150.		
	V.A.32.	H plus 120.	P.C.41.	H plus 150.
	V.B. 1.	H plus 200.		
	V B. 2.	H plus 180.		
353 S.B. (6" How).	V.A.33.	H plus 120.		
	U.B.15.	H plus 45.		
	V.A.42.	H plus 125.		
	V.A.44.	H plus 135.		
	V.A.51.	H plus 150.		
	U.B.53.	H plus 75.		
155 S.B. (6" How).	O.D.90.	H plus 125.		
	V.C. 7.	H plus 100.	V.A. 43.	H plus 140.
	V.A.43.	H plus 140.		
	V.A.45.	H plus 140.		
	V.A.81.	H plus 150.		
	V.A.82.	H plus 145.		
140 H.B. (60-pr).	P.C.63.	H plus 135.	P.D.62.	H plus 180.
	P.C.82.	H plus 160.	P.D.62.	H plus 180.
	V.A.11.	H plus 140.	W.C. 1.	H plus 240.
	O.D.90.	H plus 125.	P.D.61.	H plus 180.
	V.A. 1.	H plus 135.	P.D.61.	H plus 180.
	V.A.33.	H plus 120.	P.D.71.	H plus 210.
151 H.B. (60-pdr).	P.C.74.	H plus 160.	W.C. 1.	H plus 240.
	U.B.52.	H plus 75.	V.B. 3.	H plus 180.
	U.B.71.	H plus 45.	V.B.35.	H plus 180.
	V.A.32.	H plus 120.	V.B. 1.	H plus 200.
	V.B.2.61	H plus 180.		
	U.B.22.	H plus 75.	V.B. 3.	H plus 180.

V96-14-43-17-35

P21d 9-3

V11A 8-4

APPENDIX X

BATTLE NEUTRALIZATION PROGRAMME

to accompany C.B.O.O.88.

87th BRIGADE, R.G.A.

<u>Battery.</u>	<u>First Target.</u>	<u>Time to cease fire on 1st t'gt.</u>	<u>Second Target.</u>	<u>Time to cease fire on 2nd Target.</u>
<u>Centre Area.</u>				
154 H.B. (60-pdr).	D.X.33.	H plus 170.	E.W.71.	H plus 350.
	D.Z. 4.	H plus 170.		
	E.W.71.	H plus 350.		
	V.C. 7.	H plus 120.	D 12 c 8575.	H plus 200.
	D.Y.12.	H plus 75.	K.W.41.	H plus 350.
	D.Y.22.	H plus 160.	K.W.42.	H plus 350.
156 H.B. (60-pdr).	D.W.51.	H plus 160.	D.Z.41.	H plus 320.
	D.X.31.	H plus 170.	D.Z.52.	H plus 350.
<u>Right Area.</u>				
156 H.B. (60-pdr).	D.Z. 3.	H plus 185.		
	D.Z.12.	H plus 190.		
	J.W.41.	H plus 120.	D.Z.51.	H plus 350.
	J.Z. 2.	H plus 264.		
219 S.B. (6" How).	J.W.16.	H plus 100.	J.W.21.	H plus 190.
	J.W.71.	H plus 175.	J.Y.24.	H plus 210.

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APPENDIX

BATTLE NEUTRALIZATION PROGRAMME

to accompany C.B.O.O.88.

3rd BRIGADE, R.G.A.

Battery.	First target.	Time to cease fire on 1st t'gt.	Second Target.	Time to cease fire on second target.
<u>Left. Area.</u>				
48 H.B. (60-pdr).	U.B.15.	H plus 45.	D.Z.23.	H plus 350.
	V.A.51.	H plus 150.	D.Z.24.	H plus 350.
	V.A.71.	H plus 135.	D.X.81.	H plus 200.
	V.A.81.	H plus 150.	D.Z.25.	H plus 350.
	V.C.11.	H plus 120.	D.X.81.	H plus 200.
	V.A.73.	H plus 130.	E.W.71.	H plus 350.
112 H.B. (60-pdr).	V.A.82.	H plus 145.	E.Y. 1.	H plus 350.
	V.B.35.	H plus 180.	E.Y.12.	H plus 350.
	V.B.32.	H plus 170.	E.Y. 1.	H plus 350.
	V.B.33.	H plus 170.	E.Y.12.	H plus 350.
	W.A.31.	H plus 240.		
	V.B.31.	H plus 170.	E.Y.41.	H plus 350.
268 S.B. (6" How).	V.A.72.	H plus 120.		
	V.C. 1.	H plus 75.		
	U.B.82.	H plus 60.		
	V.C. 3.	H plus 70.		
	U.B.84.	H plus 60.		
	V.A.61.	H plus 75.		
<u>Centre Area.</u>				
21 S.B. (9.2" How).	D.W.54.	H plus 160.	D.Z.21.	H plus 350.
	D.W.76.	H plus 90.	V.D.11.	H plus 200.
	D.X.31.	H plus 170.	D.Z.23.	H plus 350.
	D.Y.12.	H plus 75.	D.Z.41.	H plus 320.
	D.Y.22.	H plus 160.	D.Z.52.	H plus 350.
	D.Y.32.	H plus 45.	D.Z.22.	H plus 350.
152 S.B. (8" How.).	D.W.73.	H plus 90.	D.Z.24.	H plus 350.
	D.W.51.	H plus 160.	D.Z.25.	H plus 350.
	D.X.34.	H plus 170.		
	D.Z. 1.	H plus 180.		
	D.Z.14.	H plus 190.		
	D.Y.23.	H plus 150.	J.X.52.	H plus 350.
88 S.B. (6" How.	D.W.54.	H plus 160.		
	D.W.76.	H plus 90.		
	D.W.82.	H plus 150.		
	U.B.83.	H plus 70.		

BATTLE NEUTRALIZATION PROGRAMME

to accompany C.B.O.O.86.

86th BRIGADE, R.G.A.

<u>Battery.</u>	<u>First target.</u>	<u>Time to cease fire on 1st t'gt.</u>	<u>Second target.</u>	<u>Time to cease fire on second t'gt.</u>
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Left Area.1/1 Wessex
(60-pdr).

P.C.62.	H plus 135.	P.D.74.	H plus 210.
P.C.71.	H plus 140.	P.D.74.	H plus 210.
V.A.42.	H plus 125.	W.A.31.	H plus 250.
V.A.43.	H plus 140.	V.B.21.	H plus 240.
V.A.34.	H plus 130.	W.A.31.	H plus 250.
V.A.45.	H plus 140.	V.B.21.	H plus 240.

141 H.B.
(60-pdr).

V.D.11.	H plus 200.		
P.C.71.	H plus 140.	P.D.72.	H plus 210.
U.B.12.	H plus 45.	V.D.11.	H plus 200.
V.D.31.	H plus 170.		
V.A.52.	H plus 160.	W.A.71.	H plus 250.
V.B.33.	H plus 170.	W.A.71.	H plus 250.

Centre Area.S.B.
(6" How).

V.C.11.	H plus 120.
---------	-------------

Right Area.S.B.
(6" How).

J.W.12.	H plus 140.
J.W.21.	H plus 190.
D.Y.57.	H plus 175.
J 13 d 6095.	H plus 105.

350

BATTLE NEUTRALIZATION PROGRAMME

APPENDIX

to accompany C.B.O.O.88.

77th BRIGADE, R.G.A.

<u>Battery.</u>	<u>First Target.</u>	<u>Time to cease fire on 1st t'gt.</u>	<u>Second target.</u>	<u>Time to cease fire on 2nd T'gt.</u>
<u>Right Area.</u>				
191 S.B. (9.2" How).	D.Y.31.	H plus 60.	D.Z.13.	H plus 190.
	D.Z. 3.	H plus 185.	K .W. 2.	H plus 350.
	D.Z.51.	H plus 350.		
	J.W.41.	H plus 120.	J.X.71.	H plus 260.
	J.W.71.	H plus 175.	J.Z.43.	H plus 290.
	J.Y.11.	H plus 150.	J.Z.51.	H plus 290.
286 S.B. (8" How).	D.Y.57.	H plus 175.		
	D 28 a 9.2.	H plus 185.		
	J.W. 4.	H plus 80.	D.Y.54.	H plus 160.
	J.W.12.	H plus 140.	D.Y.57.	H plus 175.
	J.W.21.	H plus 190.		
	J 8 b 1085.	H plus 135.		
119 S.B. (6" How).	D.Y.33.	H plus 60.	D.Z.13.	H plus 190.
	D.Y.58.	H plus 175.		
9 H.B. (60-pdr).	D 30 d 7.7.	H plus 350.		
	I.X.82.	H plus 45.	J.Z.41.	H plus 280.
	J.W.45.	H plus 135.	K.W. 1.	H plus 350.
	J.X.71.	H plus 260.		
	J.Y.24.	H plus 210.		
	J.Z. 1.	H plus 240.		
26 H.B. (60-pdr).	D.Y.31.	H plus 60.	K.W. 2.	H plus 350.
	J.Z.41.	H plus 280.		
	D.Y.32.	H plus 45.	J.X.52.	H plus 350.
	J.Z.44.	H plus 280.		
	J 28 a 5535.	H plus 260.		

APPENDIX

BATTLE NEUTRALIZATION PROGRAMME

to accompany C.B.O.O.88.

72 BRIGADE, R.G.A.

<u>Battery.</u>	<u>First Target.</u>	<u>Time to cease fire on 1st t'gt.</u>	<u>Second Target.</u>	<u>Time to cease fire on second t'gt.</u>
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Left Area.

375 S.B. L.Xn. (12" How).	V.B. 1.	H plus 180.	V 12 c 7.8.	H plus 225.
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381 S.B. L.Xn. (12" How.)	O.D.87.	H plus 130.		
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63 S.B. (12" How).	P.C.81.	H plus 165.		
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Centre Area.

375 D.B. R.Xn. (12" How).	D.Z. 4.	H plus 170.		
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89 S.B. (12" How).	D.W.82.	H plus 150.	E.Y.41.	H plus 350.
	D.X.33.	H plus 170.	D 6 d 3540.	H plus 215.

Right Area.

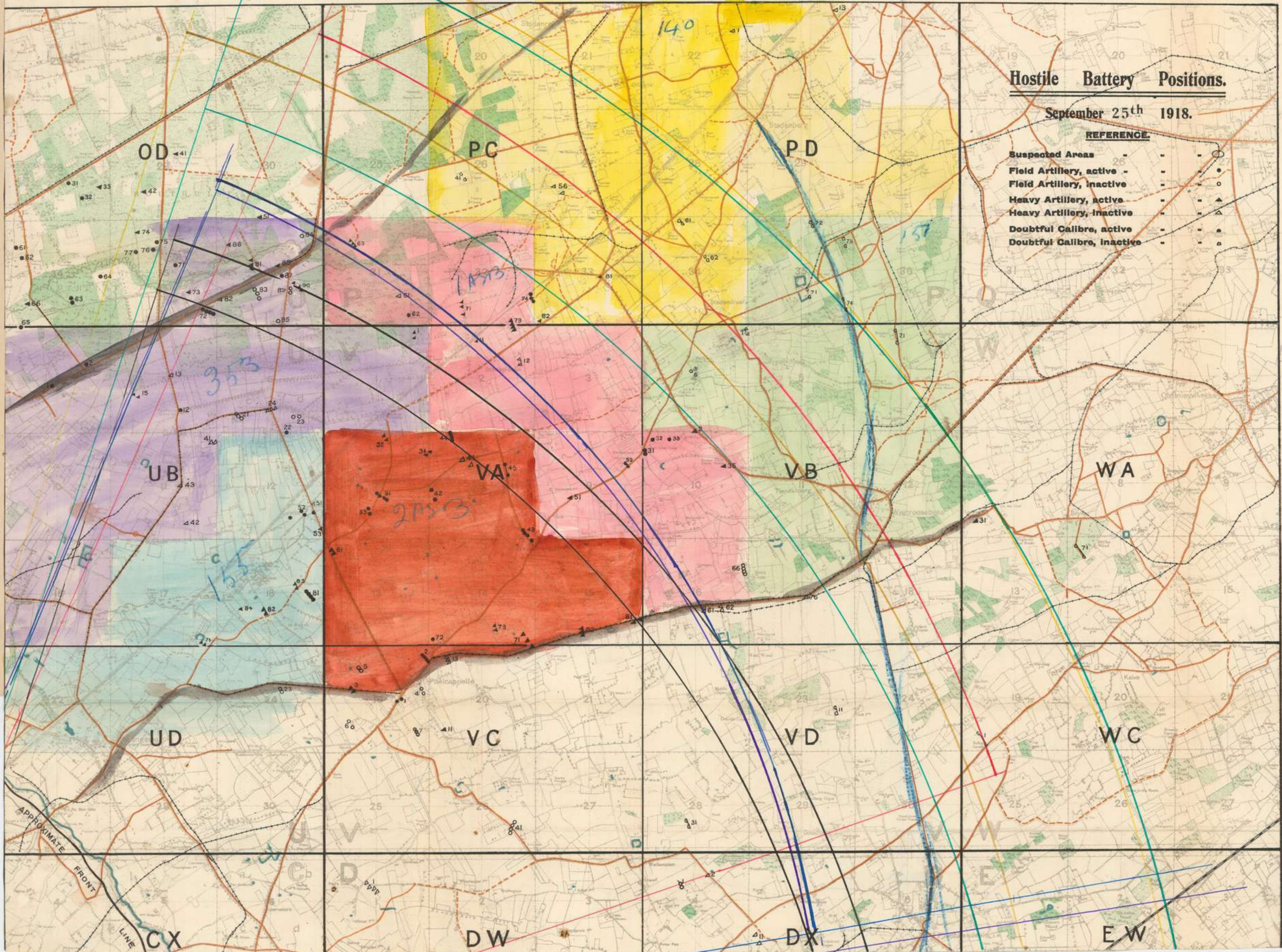
381 S.B. R.Xn. (12" How).	J.Y.24.	H plus 210.		
---------------------------------	---------	-------------	--	--

63 S.B. (12" How).	J.Z. 2.	H plus 264.		
-----------------------	---------	-------------	--	--

104 S.B. (12" How).	D.Y.56.	H plus 175.	D.Z.21.	H plus 350.
	D.Z.12.	H plus 190.		

COUNTER BATTERY AREA MAP, No. 9.

APPENDIX.



Hostile Battery Positions.

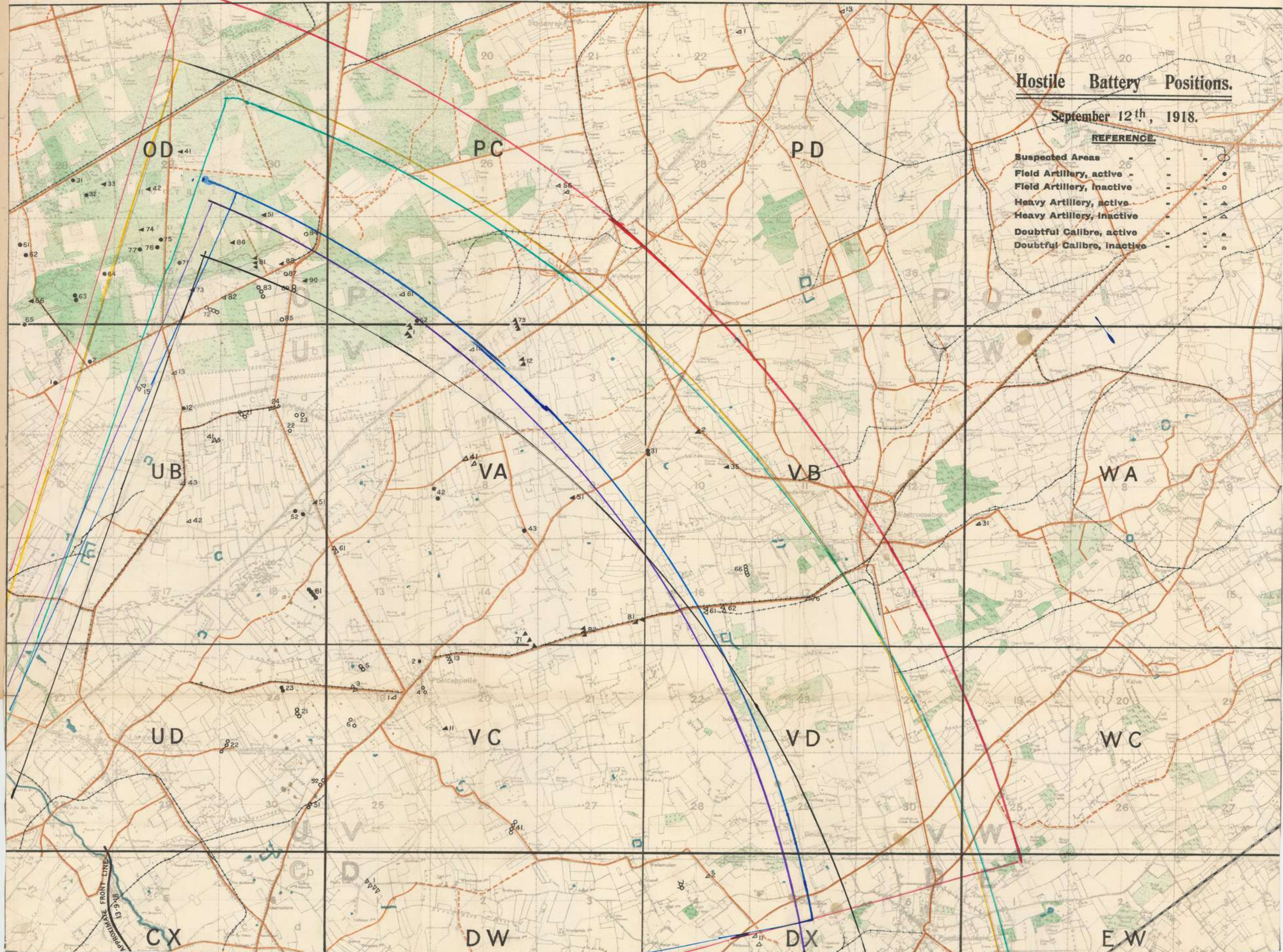
September 25th 1918.

REFERENCE.

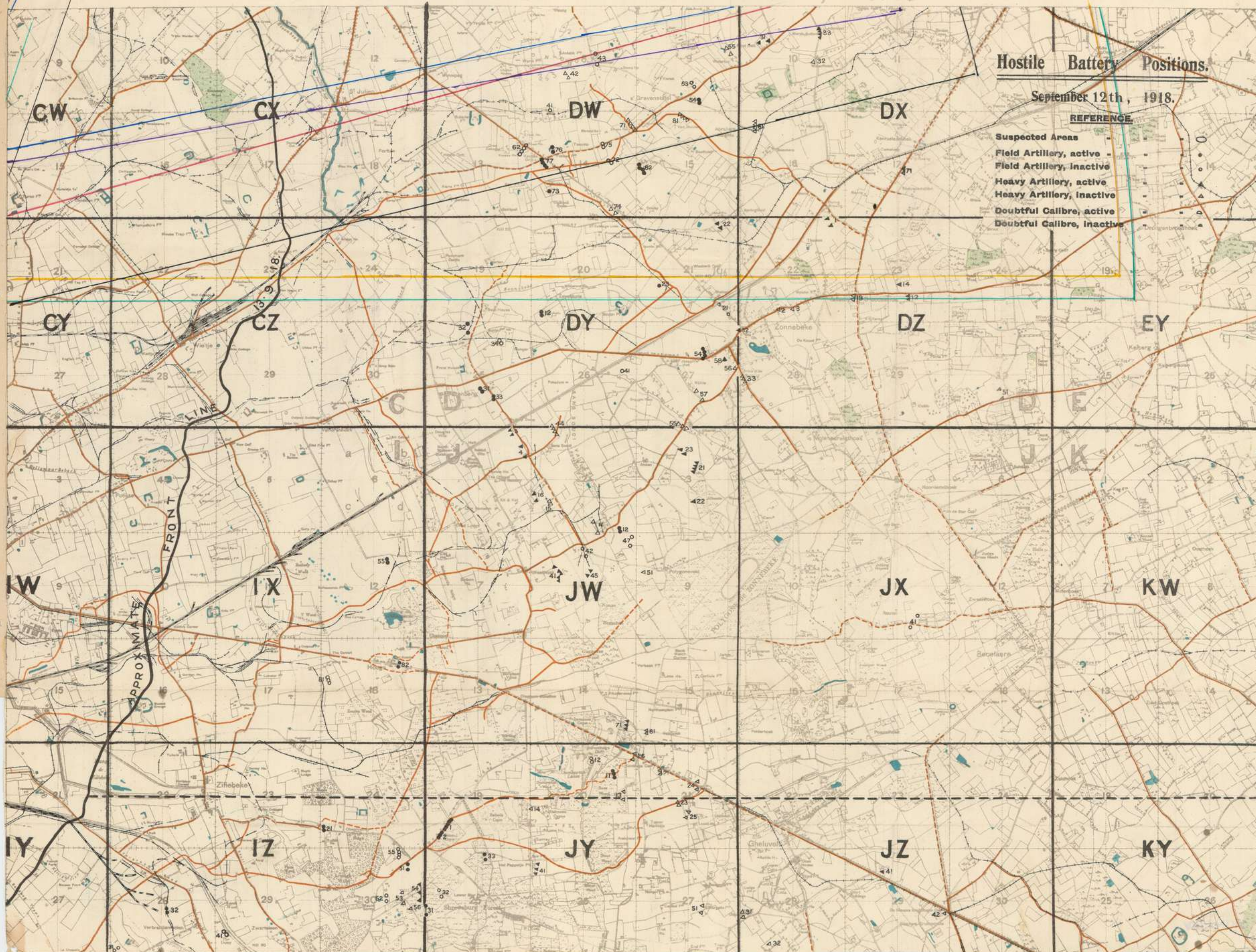
- Suspected Areas - - - ○
- Field Artillery, active - - - ●
- Field Artillery, inactive - - - ○
- Heavy Artillery, active - - - ▲
- Heavy Artillery, inactive - - - △
- Doubtful Calibre, active - - - ●
- Doubtful Calibre, inactive - - - ○

Handwritten notes on the right margin of the map, including numbers and possibly coordinates or elevation data.

COUNTER BATTERY AREA MAP, No. 9.



COUNTER BATTERY AREA MAP, No. 10



APPENDIX

KEY TO BATTLE NEUTRALIZATION PROGRAMME.

* = Engaged by 12" Howr.
(1)= " 9.2" Howr.
(2)= " 8" Howr.
(3)= " 6" Howr.
No mark " 60-pdrs.

1st Target. Time of lift. Brigade engaged by

Second Targets.

(For time of opening fire on 2nd T'gt see Neutralization Programme.)

Time of Engaged Target ceasing fire. by

O.D.87. H plus 120. 72*
O.D.90. plus 125. 36(3). 36.

P.C.62. H plus 135. 36(2). 86.
P.C.63. plus 135. 36(2). 36.
P.C.71. plus 140. 86.
P.C.73. plus 150. 36(2).
P.C.74. plus 160. 36.
P.C.81. plus 165. 72*
P.C.82. plus 160. 36.

P.C.41. H plus 150. 36(2).
P.C.74. plus 160. 36(2).

P.D.61. H plus 180. 36.
P.D.62. plus 180. 36.
P.D.71. plus 210. 36.
P.D.72. plus 210. 86.
P.D.74. plus 210. 86.

U.B.22. H plus 75. 36.
U.B.12. plus 45. 86.
U.B.15. plus 45. 36(3). 3.
U.B.52. plus 75. 36(1). 36.
U.B.71. plus 45. 36(1). 36.
U.B.81. plus 70. 36(1).
U.B.82. plus 60. 3(3).
U.B.53. plus 75. 36(3).
U.B.83. plus 70. 3(3).
U.B.84. plus 60. 3(5).

V.A. 1. H plus 135. 36.
V.A.11. plus 140. 36.
V.A.31. plus 120. 36(1).
V.A.32. plus 120. 36(2). 36.
V.A.33. plus 120. 36(3). 36.
V.A.34. plus 130. 86.
V.A.42. plus 125. 36(3). 86.
V.A.43. plus 140. 36(3). 86.
V.A.44. plus 135. 36(3).
V.A.45. plus 140. 36(3). 86.
V.A.51. plus 150. 36(3). 3.
V.A.52. plus 160. 86.
V.A.61. plus 75. 3(3).
V.A.71. plus 135. 36(1). 3.
V.A.72. plus 120. 3(3).
V.A.81. plus 150. 36(3). 3.
V.A.82. plus 145. 36(3). 3.
V.A.73. plus 130. 3.

V.A.43. H plus 140. 36(3).

YAWA

APPENDIX

1st Target. Time of lift. Brigado engaged by.

Second target.

(For time of opening fire on 2nd T'gt see neutralization programme).

Target. Time of ceasing fire. Engagdd by.

V.B. 1.	H plus 200.	36(2).	72*	V.B. 1.	H plus 200.	36.	
V.B. 2.	plus 180.	36(2).	36.	V.B. 3.	plus 180.	36.	
V.B.31.	plus 170.	3.		V.B.21.	plus 240.	86.	
V.B.32.	plus 170.	3.		V.B.35.	plus 180.	36.	
V.B.33.	plus 170.	86.	3.	V 12 c 78.	plus 225.	72*	
V.B.35.	plus 180.	3.					
V.C. 1.	H plus 75.	3(3).					
V.C. 2.	plus 120.	36(1).					
V.C. 3.	plus 70.	3(3).					
V.C. 7.	plus 100.	87.	36(3).				
V.C.11.	plus 120.	3.	86(3).				
V.D.11.	H plus 200.	86.		V.D.11.	H plus 200.	86.	3(1).
V.D.31.	plus 170.	86.					
W.A.31.	H plus 240.	3.		W.A.31.	H plus 250.	86.	
				W.A.71.	plus 250.	86.	
				W.C. 1.	H plus 240.	36.	
D.W.51.	H plus 160.	3(2).	87.				
D.W.54.	plus 160.	3(1).	3(3).				
D.W.73.	plus 90.	3(2).					
D.W.76.	plus 90.	3(1).	3(2).				
D.W.82.	plus 150.	3(3).	72*				
D.X.31.	H plus 170.	3(1).	87.	D 6 d 3540.	plus 215.	72*	
D.X.33.	plus 170.	87.	72*	D 12 c 8575.	plus 200.	87.	
D.X.34.	plus 170.	3(2).		D.X.81.	plus 200.	3.	
D.Y.12.	H plus 75.	3(1).	87.	D.Y.54.	H plus 160.	77(2).	
D.Y.22.	plus 160.	3(1).	87.	D.Y.57.	plus 175.	77(2).	
D.Y.23.	plus 150.	3(2).					
D.Y.31.	plus 60.	77(1).	77.				
D.Y.32.	plus 45.	3(1).	77.				
D.Y.33.	plus 60.	77(3).					
D.Y.56.	plus 175.	72*					
D.Y.57.	plus 175.	77(2).	86(3).				
D.Y.58.	plus 175.	77(3).					
D.Z. 1.	H plus 180.	3(2).		D.Z.13.	H plus 190.	77(3).	77(1).
D.Z. 3.	plus 185.	77(1).	87.	D.Z.21.	plus 350.	3(1).	72*
D.Z. 4.	plus 170.	87.	72*	D.Z.22.	plus 350.	3(1).	
D.Z.12.	plus 190.	87.	72*	D.Z.23.	plus 350.	3.	3(1).
D.Z.14.	plus 190.	3(2).		D.Z.24.	plus 350.	3.	3(2).
D.Z.51.	plus 350.	77(1).		D.Z.25.	plus 350.	3.	3(2).
D. 28a9.2.	plus 185.	77(2).		D.Z.41.	plus 320.	87.	3(1).
D 30 d 7.7.	plus 350.	77.		D.Z.52.	plus 350.	87.	3(1).
				D.Z.51.	plus 350.	87.	
E.W.71.	H plus 350.	87.		E.W.71.	H plus 350.	87.	3.
				E.Y. 1.	H plus 350.	3.	
				E.Y.12.	plus 350.	3.	
				E.Y.41.	plus 350.	3.	72*

<u>1st Target.</u>	<u>Time of lift.</u>	<u>Brigade engaged by.</u>	<u>Second Target.</u>
			(for time of opening fire on 2nd t'gts see Neutralization programme).
			<u>Time of Target.</u> <u>ceasing fire.</u> <u>Engaged by.</u>
I.X.82.	H plus 45.	77.	
J.W. 4.	H plus 80.	77(2).	J.W.21. H plus 190. 87(3).
J.W.12.	plus 140.	77(2).	86(3).
J.W.16.	plus 100.	87(3).	
J.W.21.	plus 190.	77(2).	86(3).
J.W.41.	plus 120.	77(1).	87.
J.W.45.	plus 135.	77.	
J.W.71.	plus 175.	77(1).	87(3).
J 8 b 1085.	plus 135.	77(2).	
J13 d 6095.	plus 105.	86(3).	
J.X.71.	H plus 260.	77.	J.X.52. H plus 350. 3(2).77.
			J.X.71. plus 260. 77(1).
J.Y.11.	H plus 150.	77(1).	J.Y.24. H plus 210. 87(3).
J.Y.24.	plus 210.	77. 72*	
J.Z. 1.	H plus 240.	77.	J.Z.41. H plus 280. 77.
J.Z. 2.	plus 264.	87. 72*	J.Z.43. plus 290. 77(1).
J.Z.41.	plus 280.	77.	J.Z.51. plus 290. 77(1).
J.Z.44.	plus 280.	77.	
J28 a 5535.	plus 260.	77.	
			K.W. 1. H plus 350. 77.
			K.W. 2. plus 350. 77. 77(1).
			KW.41. plus 350. 87.
			K.W.42. plus 350. 87.

350

C.O.C. 1st Aust Siege Battery
2nd Aust Siege Battery
155 Siege Battery BGA
353 Siege Battery BGA
140 Heavy Battery BGA
151 Heavy Battery BGA.

36TH
(AUSTRALIAN) BDE.,
R.G.A.
No. 00102/1
Date

APPENDIX NO. 1 to 00/102 (C.B. 00/00).

- 2nd Aust S.B. Having ceased fire on UB.92, UB.71, UB.61, two guns will be used on remaining three targets.
- 353 S.Bty. Cancel VA.91 and substitute V.9.b.14.43 - 17.35.
Having ceased fire on UB.15 and UB.93, two guns will be used on VA.44 and V.9.b.14.43 - 17.35
- 151 Heavy Bty. Cancel VB.2 and substitute VB.61.

W.B. Whitth

27/9/40.

Captain R.A.A.
Adjutant 36th (Aust) Brigade R.G.A.

[13/25/32]

[Appendix N]

HQ IIInd Corps

Instructions

21-Sep

350

IV

C.L.260.
=====

II CORPS COUNTER BATTERIES.
= * = * = * = * = * = * =

36 Brigade, R.G.A.

36TH
(AUSTRALIAN) BDE.
R.G.A. Bde RGA
19 F/202
No.....
Date.....

Copies of Counter Battery Standing
Orders and Instructions enclosed herewith
for distribution to Batteries.

Please acknowledge receipt.

W. H. H. H. H.
Captain, R.A.

16/9/18. for C.B.S.O. II Corps.

- | | | |
|------------|---|----|
| C.B.S.O.1. | - | 7. |
| C.B.I.8. | - | 7. |
| C.B.I.8/b. | - | 7. |
| C.B.I.8/c. | - | 7. |
| C.B.I.14. | - | 7. |
| C.B.I.16. | - | 1. |
| C.B.78. | - | 1. |

350
SECRET

APPENDIX

4
C.B.1.8.

15
II CORPS COUNTER BATTERIES.

WIRELESS COMMUNICATION FROM
COUNTER BATTERY STAFF OFFICE TO BRIGADES AND BATTERIES.

3 Brigade.
8 Brigade.
59 Brigade.
72 Brigade.
25 Brigade.
11 Brigade.
43 Brigade.
53 Brigade.

1. The Wireless Transmitting Set at H.A., H.Q. will be used for communication with Brigades and Batteries in cases of emergency, and when telephonic communication is interrupted.

2. Where the secrecy of the message renders it necessary the whole, including the Code Letters will be translated into the FIELD CIPHER, which will only be used for communication with Brigades; and when used, the whole of the message, including the Code Letters, will be translated into Cipher. Communication with Brigades will also be in clear when possible.

3. Communication with batteries will be in clear with the aid of the code letters enclosed.

4. Ordinary urgent messages, such as instructions for neutralizations, warning to stand by for Aeroplane, etc. will be sent direct to batteries from C.B.S.O., the code letters being used where applicable, the rest of the message being in clear.

5. Brigades will pick up and confirm all messages to their batteries; and if the Brigade is cognizant that for any reason the battery detailed is unable to undertake the task, will detail it to another battery.

6. CIPHER messages to Brigades will be decoded by an Officer of the Brigade, not by the Wireless Operators. The C.W.S. Officer is willing to visit the Brigade and explain any difficulty.

Copies of the Code letter are enclosed for information of Brigades and Batteries. The current key-words of the CIPHER are enclosed for the information of the Brigade only.

7. These instructions supersede C.B.67, C.B.68, C.B.68/a and C.B.68/b.

8. Brigades acknowledge.


Lieut-Col, R.A.

18/5/18.

Counter Battery S.O. II Corps.

Copies to-

II Corps R.A.
II Corps H.A.
'S' Section, S.R.
'I' do
'GG' do

7 Kite Balloon Coy.
5 Kite Balloon Coy.
C.W.S. Officer.

350

16

APPENDIX

4

SECRET

C.B.I.8/b.

II CORPS COUNTER BATTERIES.

WIRELESS COMMUNICATION FROM
COUNTER BATTERY STAFF OFFICE TO BRIGADES AND BATTERIES.

- 3 Brigade.
- 8 Brigade.
- 59 Brigade.
- 72 Brigade.
- 43 Brigade.
- 53 Brigade.

1. From the 2nd JUNE the Code Letters contained in C.B.I.8/a are cancelled, and the following substituted until further notice.
2. Brigades will obtain a certificate from all batteries that C.B.I.8/a has been destroyed and all Battery officers informed of its cancellation. This Office should then be informed of the fact.

CODE LETTERS.

Code Letter.	Meaning.		
O.	Fire on Neutralization Table 'A' (unless otherwise detailed the following rate will be employed: 5 minutes intense rate, normal for 1/4 Hr, then occasional bursts until enemy activity ceases.)		
P.	-do-	-do-	Table 'B'.
Q.	-do-	-do-	Table 'C'.
K.	-do-	-do-	Table 'D'.
F.	Neutralize (remainder of message in full).		
R.	Fire a concentration on (remainder of message in full).		
D.	Repeat last series.		
S.	Your destructive shoot programme is: (remainder of message in full).		
L.	S.O.S.		
G.	Counter preparation.		
W.	Fire gas concentration on (remainder of message in full).		
Z.	Cancel (remainder in full).		
A.	Cease firing on (remainder in full).		
M.	An aeroplane is on its way to range you on your destructive shoot target.		
N.	Fire for effect at the rate of 100 rounds per ranged gun on:-		
U.	-do-	-do-	75 rounds per ranged gun.
T.	-do-	-do-	50 -do-

APPENDIX

4

-2-

Code letters to be used before and after: "C.B."

The code letter will in every case be preceded and followed by the letters "C.B.". If cipher is used the whole message, including code letters, will be coded in the ordinary way.

Example-The decoded message 'C B P C B' would mean "Fire on neutralization table 'B' " (at the rate laid down).

Brigados acknowledge.

alright

Lieut-Col, R.A.

1/6/18.

for B.G.C.H.A. II Corps.

Copies to-

II Corps R.A.	C.W.S. Officer, 7 Squadron.
II Corps H.A.	C.W.S. Officer, 10th Squadron.
'S' Section, S.R.	Wireless Offr, 7th Squadron.
'I' Section S.R.	Wireless Offr, 10th Squadron.
'G G' Section S.R.	
7 K.Balloon Coy.	
5 K.Balloon Coy.	

350

APPENDIX 4
O.B.I.8/c.

SECRET

II CORPS COUNTER BAT TERIES.

- 8 Bde.
- 3 Bde.
- 59 Bde.
- 72 Bde.
- 53 Bde.
- 2 Bde.

1. The following additions are made to the code letters contained in C.B.I.8/b. They will come into force on receipt of this notice.

CODE LETTERS.	
Code Letters.	Meaning.
G.	Counter preparation 'A'.
H.	-do- 'B'.
B.	Help XIX Corps.
Y.	Help Belgians.

Brigades acknowledge.

as it is

Lieut-Col, R.A.

4/7/18.

for B.G.C.H.A. II Corps.

- Copies to-
- II Corps R.A.
 - II Corps H.A.
 - S Section, S.R.
 - I Section, S.R.
 - GG Section, S.R.
 - 7 Balloon Coy.
 - 5 Balloon Coy.
 - 10 Squadron R.A.F. C.W.S. Officer.
 - 7 do do
 - 7 Squadron Wireless Officer.
 - 10 do do

WMA

SECRET.

Second Army..

G. 384.

21st September 1918.

II Corps.

* * * * *

CO-OPERATION WITH BALLOONS BY LAMP SIGNALLING.

1. For purposes of passing back information during forthcoming operations, lamp signalling between special parties, to be detailed by Corps, and Balloons will be arranged as follows.

2. Three balloons will be in position on the Army front near the following places :-

LOORE.
VLAMERTINGHE .
WOESTEN.

These balloons will be specially marked with a black streamer.

3. Corps will be provided with the "ALDIS" signalling lamp on the following scale :-

II Corps ... 3

A special party, in charge of an Artillery officer, will be detailed for each lamp, and each lamp station will be given a call letter.

4. These stations will be employed to send back information concerning progress of the attack to the Balloons, who will telephone out information received.

5. The lamp stations should follow up the Infantry as closely as possible.

6. II, XIX and X Corps will each provide two experienced signallers for work at the balloon end. These men should be carefully selected and should be good sailors.

7. All details will be arranged direct between Corps and O.C., 2nd Balloon Wing, from whom the lamps will be obtained.

8. It is considered that a great deal of valuable information may be received by this method of communication.

Sd / J. PERCY,

M.G.G.S.,
Second Army.

Copy to :- 2nd Brigade R.A.F.
2nd Balloon Wing.
R.A.

P.T.O.

YMA

APPENDIX

SECRET.

II Corps G.S.19.
22nd September 1918.

R.A. Signals.

With reference to the attached Second Army letter
No. G.384 dated 21st September 1918 :-

Paragraph 5 :-

The three special parties will be detailed by G.O.C.R.A
II Corps.

The three officers in charge of parties will meet the
O.C., 2nd Balloon Wing at Headquarters XIX Corps H.A.
at 27/L.21.b. at 10.0 a.m. tomorrow, the 23rd September,
to receive their "ALDIS" Lamps and special instructions
as to calls, etc.

These three officers will report at a time and date to
be notified later at II Corps Headquarters to receive
instructions as to line of advance, etc. and information
to be sent back.

Paragraph 6 :-

A.D. Signals, II Corps, will detail two experienced
Signallers for work at the Balloon end.

These men will be sent to join No. 15 Balloon Section
H.Q. at Sheet 28/B.19.a.2.7 as early as possible
tomorrow 23rd September.

All information obtained through lamping parties and
Balloons will be sent direct to II Corps Advanced Report Centre
and wired thence to all concerned.

Sd/ J.P. DUKE, Major,
for B.G.G.S.

Copies to :-

H.A.
2nd Balloon Wing,
9th Division.
29th Division.
36th Division.
A. & Q.
No. 15 Balloon Section.

S E C R E T

H.A.II Corps
B.M.823

24th September 1918.

36
No....Brigade R.G.A.
C.B.S.O.

* * * * *

Herewith one copy of the following :-

- II Corps Instructions No. 7 - Contact & Counter-Attack Patrols
- II Corps Instructions No. 8 - Repair of Roads.
- II Corps Instructions No. 9 - Dropping of Ammunition from Aeroplanes.

2.

ACKNOWLEDGE.

Almont

Major R.A.,
Brigade Major H.A.II Corps.

[Handwritten signature]

II CORPS INSTRUCTIONS No. 7

CONTACT AND COUNTER-ATTACK PATROLS.

1. Contact Aeroplane for marking positions of Infantry.

- (a) The attacking troops will carry RED FLARES, Discs, and American Cloth on Box Respirators, for the purpose of communicating with contact aeroplanes.
- (b) These and every other practicable means of signalling their position will be used by the attacking troops at :-

Zero plus 2 hours 15 minutes
and at
Zero plus 4 hours

and at such other times as called for by the contact aeroplanes.

- (c) The contact aeroplanes will call for signals from the attacking troops by sounding a Klaxon Horn and dropping WHITE LIGHTS.
- (d) The contact aeroplanes will be marked with TWO BLACK RECTANGULAR FLAGS (2ft. by 1 ft. 3 inches) attached to and projecting from the lower plane on each side of the fuselage and each contact aeroplane will also have a TRAILING STREAMER.
All troops are to be warned how to recognise a contact aeroplane.

2. Counter-attack Aeroplane.

A Counter-attack Aeroplane will be in the air on II Corps front from Zero plus 1 hour onwards for the purpose of giving warning of an impending hostile attack.

On perceiving hostile infantry moving to the attack the counter-attack aeroplane will call for annihilating artillery fire by the wireless "LL" or "GF" call and will also signal the fact that a hostile attack is pending by dropping a RED PARACHUTE VERY LIGHT.

3. Aeroplane fitted with wireless telephone.

From time to time an aeroplane fitted with wireless telephone will patrol the II Corps front. Receiving stations to take down messages from this aeroplane are being arranged for atYPRES and GOLDFISH CHATEAU.

It is to be remembered, however, that all messages sent by this machine can be intercepted by enemy receiving stations and on no account whatever will any messages referring to the position of our own troops be sent in clear by this means.

4. Dropping Stations.

Divisions will arrange for dropping stations to be established at each of their Battle Headquarters.

A similar station will be established at II Corps Headquarters.

Contact aeroplanes returning from the front will drop messages, in the first instance, at the Battle Headquarters of the Divisions concerned and will subsequently drop a duplicate of each message at Corps Headquarters.

JWA

350

II CORPS INSTRUCTIONS No. 8.

REPAIR OF ROADS.

1. ROADS TO BE REPAIRED.

The following roads will be repaired as far as practicable:-

(a) As Main Roads.

- (i) YPRES - MENIN Road.
- (ii) The road from BIRR CROSS ROADS - BELLEWARDE CIRCUIT - WESTHOEK - ZONNEBEKE - MOLENAARELSTHOEK.
- (iii) The YPRES - POTIJZE - ZONNEBEKE - BROODSEINDE Road.

(b) As Diversion Roads round YPRES.

- (i) The WARRINTON ROAD from KRUISSTRAAT to the ZILLEBEKE - HELLFIRE CORNER Road at I.18.d.6.5 and thence the ZILLEBEKE - HELLFIRE CORNER Road to HELLFIRE CORNER.
- (ii) The road SALVATION CORNER - point I.8.c.3.4 - DIXMUDE GATE - point I.8.b.2.9 - Junction between POTIJZE and MENIN ROADS at I.8.b.55.55.

(c) As Lateral Roads.

- (i) The road from HELLFIRE CORNER to POTIJZE.
- (ii) The CAMBRIDGE ROAD from BIRR CROSS ROADS to the YPRES - POTIJZE Road at point I.5.a.3.7.
- (iii) OXFORD ROAD from I.5.a.5.8 to G.28.b.2.4

2. RESPONSIBILITY.

(a) DIVISIONS.

Divisions will be responsible within their respective areas, for making, as the advance progresses, the roads mentioned above fit for the movement of Field Artillery and Horse Transport.

(b) The Corps will be responsible for taking over from Divisions from "Zero Hour" onwards the responsibility for repairing all roads up to our present front line, and, as the situation permits, will press on immediately behind the Divisional repair parties and repair all roads mentioned in para 1 for lorries and heavy guns.

The line of demarcation for responsibility between Corps and Division will be arranged from time to time between C.E., II Corps and Divisions according to the situation.

(c) DIRECTOR GENERAL OF TRANSPORTATION.

Arrangements have been made for the Director General of Transportation to take over from "Zero Hour" onwards the responsibility for the repair of all roads to as far forward as the line LILLE Road to YPRES Moat thence along Moat to I.8.b.2.9 thence DEAD END and along Canal.

APPENDIX

3. DUMPS.

Dumps of road material have been collected at ST QUINTON on the Light railway, and at CLAUERTINGHE: and as the advance progresses, dumps of road material will be established as follows, according to the situation at the moment:-

- (a) Stone Dumps. POTIJZE, HELLFIRE CORNER. WIELTJE.
- (b) Road Planks & Fascines. WIELTJE, HELLFIRE CORNER.

Dumps of duckboards will also be made at WIELTJE and HELLFIRE CORNER.

4. TRACKS.

Divisions will be responsible in their respective areas for the repair and construction of as many overland tracks as it is practicable to make in order to keep infantry off the roads. As the advance progresses the Corps will take over responsibility for the maintenance of such of these tracks as it may be considered essential to maintain.

S E C R E T
=====

II CORPS INSTRUCTIONS No. 9

DROPPING OF AMMUNITION FROM AEROPLANES.

1. Arrangements have been made with the R.A.F. to drop ammunition from aeroplanes, if required.

2. Two kinds of ammunition will be dropped :-

(a) Bundle packed S.A.A.

(b) M.G. Ammunition packed in belts
(4 belts per box).

The ammunition prepared for dropping will be in the proportion of two of bundle packed ammunition to one of M.G. Ammunition in belts.

3. Infantry will signal that ammunition is wanted as follows:-



= Machine Gun Post requiring M.G. Ammunition



= Bundle packed ammunition required.

Each signal will be made up of strips of white cloth 12 ft. X 1 ft. and in each case attention will be called to the signal by the firing of a WHITE FLARE from the ground.

4. The aeroplanes will be ready to drop ammunition from Zero plus 2 hours onwards and will continue to do so as long as the ground signals are displayed.

Once the signals are removed no more ammunition will be sent by aeroplane unless a report is received from a contact machine that more is required.

5. It is probable that each ammunition dropping aeroplane will be able to drop about 2 boxes of ammunition per hour and possibly at the outside 6 machines can be made available for the purpose.

It will not be practicable with these aeroplanes to continue dropping ammunition for a longer period than about 4 hours and during the day it is calculated that the maximum number of boxes which can be dropped will be 17 boxes of M.G. Ammunition and 33 boxes of bundle packed ammunition.

6. It is of very great importance, therefore, that ammunition should not be called for except when really required.

7. As many parachutes as practicable must be recovered and returned to No. 7 Squadron R.A.F.

9/11/44

350

APPENDIX

3

9

III

O's.C. 1st Aust Siege Battery
2nd Aust Siege Battery
155 Siege Battery R.G.A.
353 Siege Battery R.G.A.
14 O Heavy Battery R.G.A.
151 Heavy Battery R.G.A.

36TH (AUSTRALIAN) BDE., R.G.A.
No. <i>F/106</i>
Date.....

Reference attached.

Please inform this office when all Officers are
acquainted with and understand this code.

Acknowledge.

W. Pollock

24-5-19

Captain R.A.A.
Adjutant 36th (Aust) Brigade R.G.A.

350
SECRET

12
4
APPENDIX
C.B.I. 8/1.

36TH
(AUSTRALIAN) BDE.
R.G.A.

No. FI 206

II CORPS COUNTER BATTERIES.

WIRELESS COMMUNICATION FROM
COUNTER BATTERY STAFF OFFICE TO BRIGADES AND BATTERIES.

Code Letters in force from 23rd September, 1918.

Code Letter.	Meaning.
X.	Fire on Battle Neutralization Scheme (unless otherwise detailed the following rate will be employed: 5 minutes intense rate; normal for $\frac{1}{4}$ Hr; then occasional bursts until enemy activity ceases).
O.	Fire on Neutralization Table 'A' (unless otherwise detailed the following rate will be employed: 5 minutes intense rate; normal for $\frac{1}{4}$ Hr; then occasional bursts until enemy activity ceases).
P.	-do- -do- Table 'B'.
Q.	-do- -do- Table 'C'.
K.	-do- -do- Table 'D'.
F.	Neutralize (remainder of message in full).
R.	Fire a concentration on (remainder of message in full).
D.	Repeat.
S.	Your destructive shoot programme is (remainder of message in full).
L.	S O S.
G.	Counter Preparation 'A'.
H.	Counter Preparation 'B'.
B.	Help XIX Corps.
Y.	Help Belgians.
W.	Fire gas concentration on (remainder of message in full).
Z.	Cancel (remainder in full).
A.	Cease firing on (remainder in full).
M.	An aeroplane is on its way to range you on your destructive shoot target.
N.	Fire for effect at the rate of 100 rounds per ranged gun on:-
U.	-do- -do- 75 rounds per ranged gun.
T.	-do- -do- 50 -do-

APPENDIX 4

-2-

Code letters to be used before and after: "C B".

The code letter will in every case be preceded and followed by the letters "C B". If cipher is used the whole message, including code letters, will be coded in the ordinary way.

Example 1. Counter Battery wish to have a message sent to all H.A. Brigades, Heavy and Siege Batteries. Call sent 3 times. UQC.V.UG.break.CBACB D2a91.VE. Message will be sent twice. Meaning (see attached code) All Batteries cease fire on D 2 a 91.

Example 2. C.B.S.O. wishes to have message sent to 3 H.A. Bde, and all Heavy & Siege Batteries in 3 H.A. Bde. Call sent 3 times. UCS.V.UG.break.CBDCB.C30.VE.

Example 3. The decoded message 'C B X C B LEFT' would mean "Fire on Battle Neutralization Scheme Left. (at the rate laid down). (Repeated to batteries by telephone if possible).

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SECRET

19
APPENDIX 4

C.B.S.O.1.

II CORPS COUNTER BATTERIES.

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STANDING ORDERS AND INSTRUCTIONS.

These instructions supersede C.B.1 to 73 inclusive and C.B.I. 1 to 12 inclusive (excepting C.B.I.8 & 8/b).

1. The general instructions contained in S.S.131 'Co-operation of Aircraft with Artillery' should be understood by all officers, and adhered to.

2. The following standing orders and instructions are issued in amplification of the above:-

3. DESTRUCTIVE SHOOTING.

Ranging.

- (a) For details of ranging see paras 31 and 35 of S.S.131. The following amendment to S.S.131 (G.G.205/6) is quoted for information. This procedure will be adopted for all calibres up to and including 9.2" Howitzers:-

When an aeroplane has to range one battery only.

After having completed ranging the Battery Commander will put out a 'V' and go to fire for effect. The method of fire will be by rounds of battery fire with a short interval between guns and about two minutes interval between each round. After about 12 rounds of battery fire, the battery will be re-ranged.

As soon as the Battery Commander wishes to be re-ranged, he will put out 'L' and fire at a slow and even rate of battery fire in order to attract the attention of the observer. The Observer will then return to the battery, and seeing the 'L', will send down 'ASF' and re-range. In the event of the Observer not responding to the call for re-ranging within 10 minutes, the Battery Commander will put out 'V' and fire about another 12 rounds of battery fire on the conclusion of which he will again call for re-ranging.

When an aeroplane has to range two batteries.

After having ranged the first battery the Observer will range the second battery. As soon as he has completed ranging this battery he will go back to the first, send 'ASF', and re-range it. He will then return to the second battery and proceed in the same manner.

- (b) Strips under 'L'.

In order that the Observer may be certain as to the number of guns firing when engaged upon a Counter-battery aeroplane shoot, all batteries will ensure that strips of cloth, corresponding to the number of guns to be engaged in the shoot, are placed beneath the 'L' when it is put out.

- (c) Fire for effect.

On a 'plane giving "C.I.", or when ranging on a destructive shoot is no longer possible, this fact should be reported at once by Brigade to C.B.S.O., giving details of

No. of rounds fired;
No. of guns ranged;
General results.

The number to be fired for effect will then be decided.

/(d) Co-operation.

(d) Co-operation with balloons.

For co-operation with balloons see para.59 of S.S.131. Every facility should be given to balloons to carry out preliminary ranging of aeroplane targets, and to follow fire for effect.

(e) Use of Datum and 'Witness' points.

The procedure outlined in the last portion of para.22 of S.S.139/3 should be followed whenever possible. All batteries will datum by some method as early as possible daily (see para 8).

(f) Destruction of personnel after observed shoot.

Fire for effect after a 'plane has given "C.I." should be deliberate- allowing adequate rest for guns and personnel. At least 25% of the allotted rounds for fire for effect will be devoted to efforts to destroy artillery personnel in accordance with para 28, S.S.139/3.

Apart from the harassing fire and surprise salvos on neighbouring batteries laid down in above para, it is the duty of Brigade and Battery Commanders to exercise imagination in devising varied methods of inflicting casualties, and of lowering the morale of the hostile artillery personnel.

(g) Ground Strips.

During a shoot ground strips will only be taken in when enemy aircraft is over battery, and Central Wireless Station will be informed. In normal times the responsibility for putting out 'Δ' in the case of the proximity of enemy aircraft is left to the discretion of B.C's; but battery officers should discriminate between low-flying artillery machines and fighting scouts which take no account of hostile batteries. If a battery ceases fire on account of E.A. the Brigade and C.W.S. will be informed.

(h) Fuzes.

106 fuze should be employed in ranging; but at least 75% of delay action fuzes should be used in fire for effect with all natures, unless guns are known to be unprotected, when a larger proportion of 106 fuzes should be employed.

(i) Ranging point.

The ranging point will be given to the battery in advance, and will generally be No.2 pit. If this is invisible from the air another pit or an auxiliary ranging point is selected.

When the target is of normal width - i.e. not subtending more than one degree - the Battery Commander will, on going to fire for effect, open out his lines so as to include the whole battery position (as shown in the Hostile Battery Catalogue) in his fire for effect.

Where, however, the pits of a battery are widely spaced or irregularly sited, all guns will remain concentrated on one pit until the observer gives the switch to the next one (as laid down in S.S.131).

(j) Smoke Screen.

When a smoke screen obscures the target the observer will send "S.C.", followed by No. of target, stand by ('A'), and co-ordinates of auxiliary ranging point. The responsibility for switching to the target, of course, rests with the Battery Commander.

/(k)Visual

(k) Visual shoots from Artillery O.P's.

Batteries should lose no opportunity of carrying out destructive shoots on enemy batteries with ground observation. Any battery seen active from an O.P. should be immediately neutralized; and if the position is sufficiently distinct for ranging to be carried out, a destructive shoot should be proceeded with. The Observer should either range his own battery on to the hostile battery or apply to the Brigade for a heavier battery if necessary. If the registration is good a sufficient number of rounds should be fired to completely destroy the battery. As a rule, something like 200 to 300 rounds - depending on the calibre of the battery.

4.

N.F's and A.N.F's.

- (a) For convenience, the Counter Battery area is divided into Flight areas, and one Brigade or more is responsible for N.F's, A.N.F's, and general neutralization in each Flight Area. The Brigade area should be divided into preferential sub-zones for each battery for the purpose of A.N.F's and N.F's. The battery in whose area an A.N.F. is located will automatically answer this call, but if for any reason is unable to do so, this fact will be reported to the Brigade who will detail another battery. In the event of complications ground strips will be put out at Brigade H.Q. Brigades will keep a watchful eye on A.N.F's and N.F's, and ensure that all are answered.
- (b) An A.N.F. will be treated as an ordinary destructive shoot, without ground strips.
- (c) All N.F's in a Brigade area will be answered by all batteries in the Brigade unless any battery is receiving more than can be dealt with, when the B.C. will revert to his preferential sub-zone.
- (d) The number of rounds to be fired in answer to each N.F. call will be varied between the following figures-
 - 6" Hows & 60 pdrs - 10 to 25 rounds per battery.
 - 8" and 9.2" Hows - 6 to 12 rounds per battery.
 A stereotyped number will be avoided. 106 fuze or shrapnel to be used.
- (e) A balloon N.F. or A.N.F. will be treated in the same way as an aeroplane N.F. or A.N.F.; but the battery told off to take up an A.N.F. call will invariably call up the Balloon Section from which the call is sent before opening fire, in order to get observation.

5.

G.F. and L.L. CALLS.

G.F. Calls: To be answered by Counter Battery 60-pdrs and 6" hows in their own Brigade areas. One Section of each battery which can reach will fire three rounds gun fire: this action to be repeated if the call is repeated.

L.L. Calls: One Section of each battery to be turned on if it can reach the target, firing three rounds gun fire, irrespective of whether the target is in the Brigade area or not. The L.L. call to be repeated if a further concentration is required. If not engaged on other tasks at the time, batteries will take up L.L. calls with all their guns, firing 3 rounds gun fire.

/6. Neutralization

4

4.

6.

NEUTRALIZATION.

- (a) A neutralization will normally be effected by 8" howrs or 60-pounders. 6" Howrs should use the 106 fuze, 60-pdra shrapnel whenever possible. The method of its application is left to Brigade Commander and should be varied as much as possible. The number of rounds to be fired should be between 10 and 20, but a stereotyped number should be avoided. Neutralization should start with a salvo as early as possible - preferably from more than one battery - and the remaining rounds fired in bursts at irregular intervals.
- (b) Batteries should have the range and switch worked out to each hostile battery in their Brigade Zone so that the error of the day is all the correction necessary on receipt of an order to fire.
- (c) Batteries, when ordered a neutralization will, when possible, get into communication with a balloon and obtain observation on the neutralizing fire. This particularly applies to batteries in direct communication with a balloon. Batteries should not delay opening fire until the communication with a balloon is established. For this purpose N.F's will be considered as neutralizations by batteries in their preferential zones.
- (d) Neutralization Tables designed to arrest a barrage on any Sector of the front are issued to Brigades and kept up to date from time to time. The targets are detailed in advance to batteries; and the order to fire will be received as

Table 'A' 5 minutes intense and 15 mins slow
or
77 m.m. of Table 'B' 10 mins normal, etc.

7.

HURRICANE CONCENTRATIONS.

For the purpose of catching personnel and incidentally doing damage to material, synchronized hurricane concentrations by all batteries which can bear are fired from time to time on recently active hostile batteries. These take the form of a few rounds of gun fire followed by independent salvos. To get the maximum effect of surprise it is essential that batteries are well synchronized. Synchronization with Brigades is done daily by *wireless* the Reconnaissance Officer, Heavy Artillery. 106 fuzes should be used by howitzers, and shrapnel by 60 pounders.

The independent salvos are not synchronized; and each battery fires its salvo at any time within 12 hours after the time of the concentration - preferably at a time when our aeroplanes are not working.

8.

Ranging and Calibration with the Field Survey Units.

- (a) See para 54 of S.S.139/3. The Observation Groups of the Field Survey Battalion are prepared to datum batteries daily on suitable visible points. It is not necessary for these points to be a 'feature' of the country. They will also observe for destruction and give general observations during fire for effect. For procedure see pamphlet "Ranging with Observation by the Field Survey Coy" No. S.S.199/1, issued May 1918.

5.

(b) Each Brigade will have a direct line from the Brigade Exchange to the Field Survey Exchange where such exists, or to the most suitable Observation Group. Full advantage, for the purpose of datuming, will be taken of the Observation Groups who are very suitably equipped for this work.

(c) Shooting with the Sound Ranging Section. This is of the greatest value for immediate ranging on an active battery located by the Sound Rangers; but as this, to a certain extent, interferes with the work of location, it cannot be employed in all cases. Ranging by this method will, however, be done by heavy howitzers at suitable opportunities; and 12" Mk II, and, if possible, 9.2" Mk II Howitzers should have a direct line to the Sound Ranging Section.

9.

GAS SHELL.

For particulars of ranging and employment of gas shell see paras VI and VII of S.S.134, "Instructions on the use of Lethal and Lachrymatory Shell."

Gas concentrations on hostile batteries will almost invariably commence with a synchronized burst of lethal and H.E. shell. This should be fired at an intense rate as this burst relies for its effect on surprising the enemy before he can make use of his mask. Subsequently, fire for persistent effect to make the enemy keep on his mask, or bursts to catch him after he has taken it off, will be employed. In winds of less than 12 m.p.h., lachrymatory shell should occasionally be used by batteries when ordered a neutralization.

10.

RATES OF FIRE.

(a) Rates of fire are laid down in G.H.Q. Artillery Circular No.10, which is quoted herewith:-

Term (Rate of fire.)	13-pdr. 18-pdr. 75 m.m.	4.5" How.	60-pdr. 6" How.	8" How. 9.2" How.	6" gun.	12" or 15" How.
"Gun Fire" ...	as fast as aimed rounds can be fired.					
"Intense" ...	4.	3.	1½	1.	-	-
"Rapid" ...	3.	2.	1.	½.	½.	1/6.
"Normal" ...	2.	1.	2/3.	1/3.	¼.	1/10.
"Slow" ...	1.	½.	1/3.	¼.	1/8.	1/20.
"Very slow" ...	½.	¼.	1/6.	1/8.	1/15.	1/30.

(b) For Counter-battery purposes "slow" fire should be at an irregular rate. Thus if "slow" fire were ordered for 60 pounders and 6" Hows, 20 rounds an hour should be fired at irregular intervals: similarly for "very slow" at the rate of 10 rounds an hour.

(c) A further order may be given "bursts at irregular intervals": in this case bursts will consist of 2 to 4 rounds of gunfire, and the hourly expenditure will be the same as for "slow" fire.

/11. Wireless

111. WIRELESS COMMUNICATION FROM
COUNTER BATTERY STAFF OFFICE TO BDES AND BATTERIES.

- (a) The Spark Wireless Transmitting Set at H.A., H.Q. will be used for communication with Brigades and batteries in cases of emergency, and when telephonic communication is interrupted.
- (b) Communication with batteries will be in clear with the aid of the code letters issued from time to time.
- (c) Ordinary urgent messages, such as instructions for neutralizations, warning to stand by for aeroplane, etc will be sent direct to Batteries from C.B.S.O., the code letters being used where applicable, the rest of the message being in clear.
- (d) Brigade and Battery Commanders will arrange for their Wireless Receiving Set to be manned whenever telephonic communication is broken, by day or night.

12.

REPORTS OF SHELLING.

See para 19 of S.S.139/3.
Attention is drawn to the necessity for units to render immediate and accurate reports of the shelling of their neighbours. It must be recognized that usually the people who are being shelled are the worst placed for giving accurate Sound Bearings.
Reports should state whether a sound bearing is taken from the sound of an approaching shell or from the report of a gun.

13.

BOMBARDMENT REPORTS.

Counter Battery Bombardment Reports, including all rounds fired on instructions from Counter Battery Staff Office, will be submitted by Brigades on Form C.B.B.R., to reach Counter Battery Office by 9.00 a.m. each morning, and will embrace the period 6.00 a.m. to 6.00 a.m.

14.

BATTERY WIRELESS LOGS.

A copy of the Battery Wireless Log of all C.B. shoots will be forwarded to C.B.S.O. for information of B.G.H.A. on the day following a shoot, after examination and countersignature by the Brigade Commander.

In order to save time in the sifting of failures, if any shoot was a failure the B.C.'s opinion of the cause of failure should be forwarded at the same time, together with the remarks of the Brigade Commander.

Batteries will also include the following information-

Difference in yards between calculated
range and resultant range given by
Observer in ranging.

do do do line.

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36(Aust) Bdr APPENDIX
No 1 20th

4

C.B.78.
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Copy only

II CORPS COUNTER BATTERIES.
= * = * = * = * = * = *

- 3 Brigade.
- 45 Brigade.
- 59 Brigade.
- 72 Brigade.
- All batteries.
- - - - -

To obtain a reliable standard time for synchronized concentrations and general counter-battery work, time will be synchronized daily by Brigades and Batteries with their Wireless Operators.

All wireless operators are accurately synchronized by wireless at mid-day and 9.30 p.m. each day; and by the adoption of this time by all batteries the errors of a long chain of telephone synchronizations will be avoided.

Synchronized concentrations rely on the element of surprise for their value, and it is essential that the first salvo from all batteries should arrive at approximately the same second. The time of flight should therefore be deducted from the time of all concentrations.

The above does not refer to times used for operations, which will be given by the B.M., Heavy Artillery.

A. H. Baird
Lieut-Col, R.A.

5/8/18.

for G.O.C.H.A. II Corps.

- Copies to-
- II Corps R.A.
- II Corps H.A.

DATA

Wireless operators stand by for above synchronization at above times

APPENDIX 4

SECRET

C.B.I.14.

II CORPS COUNTER BATTERY INSTRUCTIONS No. 14.

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3 Brigade.
43 Brigade.
59 Brigade.
72 Brigade.
& batteries.
- - - - -

CROSS OBSERVATION BY BALLOONS.

1. As in this area good observation from balloons on hostile batteries not actually firing is very difficult, arrangements have been made for cross observation between balloons on suitable selected datum points.

This system should be of particular value for the purpose of datuming and for preliminary ranging prior to an aeroplane shoot. It also has the additional value that preliminary ranging by this method does not warn the victim and give an enemy battery an opportunity of running to an alternative position if the shoot does not take place.

2. A numbered list of datum points for observation between Nos. 15 & 38 Balloons and Nos. 15 & 36 Balloons is attached. Batteries will get into touch with the balloons and carry out preliminary ranging of their aeroplane targets whenever possible.

3. For a destructive shoot on a target not clearly visible from the balloons, the procedure will be-

- (a). Range all guns on the nearest datum point to the target.
- (b). Switch to target and fire for effect 12 to 20 rounds per gun.
- (c). Re-range on datum point. Switch and fire for effect as before, etc.

The balloon will keep an eye on the fire for effect and report any explosions and fires; and if any gun of the battery appears to be firing erratically will notify the battery and re-range.

4. Brigades acknowledge.

10/8/18.

Lieut-Col, R.A.
for G.O.C.H.A. II Corps.

Copies to-

II Corps R.A., & H.A.
7 & 17 Balloon Coy's.

NUMBERED DATUM POINTS.

CROSS OBSERVATION BETWEEN Nos. 15 & 36 BALLOON SECTIONS.

No. 24.	Sheet 28/I.17.b.20.55.	CROSS ROADS.
25.	J.13.b.00.30.	ROAD BEND.
26.	I.22.b.75.30.	HOUSE.
27.		RAILWAY FROM ZILLEBEKE to CANAL.
28.	I.22.c.65.30.	CROSS ROADS.
29.	I.28.d.70.55.	ROAD JUNCTION.
30.	I.28.b.50.25.	HOUSE ON BEND IN ROAD.
31.		
32.	I.33.a.25.25.	BRIDGE ON CANAL.
33.	I.35.b.78.15.	RAILWAY.
34.	I.32.d.00.30.	CROSS ROADS.
35.	I.32.d.75.50.	ROAD JUNCTION.
36.	I.33.c.55.45.	ARUNDLE HOUSE.
37.	I.36.c.00.75.	TRACK ON RAILWAY.
38.	I.33.d.30.57.	CANAL BANK.
39.	O. 2.b.00.10.	CROSS ROADS.
40.	O. 2.d.25.63.	ROAD JUNCTION.
41.	O. 3.c.67.33.	BEND IN ROAD.
42.	O. 5.b.82.53.	LOCK No.6.
43.	O. 1.d.00.70.	CORNER OF WOOD AND STREAM,
44.	O. 7.a.86.80.	WOOD AND RAILWAY.
45.	O.15. ^c .40.85.	BEND IN ROAD.
46.	N.18.b.80.23.	CORNER OF WOOD AND ROAD.
47.	O.21.b.60.75.	CROSS ROADS.
48.	O.19.d.40.95.	CROSS ROADS.
49.	I.17.b.20.88.	BIRR CROSS ROADS.

NUMBERED DATUM POINTS.

CROSS OBSERVATION BETWEEN Nos. 15 & 38 BALLOON SECTIONS.

No. 1.	Sheet 20/O.36.a.70.02.	CHATEAU.
2.	O.36.b.37.15.	FROUME CROSS ROADS.
3.	U. 6.c.29.29.	AJAX HOUSE.
4.	U. 6.d.00.45.	FIVE CROSS ROADS.
5.	U.12.b.25.95.	EGYPT HOUSE.
6.	U. 6.c.05.30.	ROAD BEND.
7.	V. 1.d.15.38.	TURENNE CROSSING.
8.	P.35.c.95.79.	S.W.CORNER OF STADENREEF CHATEAU.
9.	V.16.c.78.70.	SPRIET.
10.	V.19.b.48.13.	POELCAPPELLE CROSS ROADS.
11.	V.20.b.48.78.	OXTON ROAD BEND.
12.	Sheet 28/C. 6.c.70.08.	TRIANGLE CROSS ROADS.
13.	D. 7.c.80.15.	ROAD & RAILWAY JUNCTION.
14.	D.14.c.52.90.	CROSS ROADS.
15.	D.22.d.08.30.	WHITE HOUSE.
16.	D.28.a.05.88.	ZONNEBEKE ROAD JUNCTION.
17.	D.23.c.23.52.	BROODSEINDE CROSS ROADS.
18.	D.26.a.57.48.	ROAD BEND.
19.	J.14.c.45.52.	WOOD AND ROAD JUNCTION.
20.	J.13.a.99.25.	MENIN ROAD BEND.
21.	D.28.a.05.80.	ZONNEBEKE CHURCH.
22.	D.25.d.05.95.	CROSS ROADS.
23.	Sheet 20/U.22.d.77.21.	LANGEMARCK CHURCH.

APPENDIX 4

C.B.I.16.

SECRET

II CORPS COUNTER BATTERY INSTRUCTIONS No.16.

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3 Brigade.
43 Brigade.
59 Brigade.
72 Brigade.
- - - - -

1. From 10.00 a.m. the 15th September the Southern Counter Battery Boundary will be a line due East from I.22 central. The Northern Boundary will remain the same, viz- the YPRES-ZONNEBEKE - BROODSEINDE ROAD. The overlap remains unchanged for the present.

2. Flight and Brigade areas are amended as follows:-

Boundary between Flights-

East and West grid line through
I.10 central.

3. 3rd and 43rd Brigades will continue to work with the Northern and Southern Flights respectively.

4. Brigades acknowledge.

14/9/18.

R. B. B. B. B.
Major, R.G.A.
for G.O.C.H.A. II Corps.

Copies to-

7 Squadron R.A.F.
7 Balloon Coy.
17 Balloon Coy.
II Corps R.A.
II Corps H.A.
14 Div. Artillery.
35 Div. Artillery.
Liaison Officer, C.A.6.D.A.
Belgian Liaison Officer.
1 Obs. Group, 4th F.S.Batt.
3 Obs. Group, do
12 Obs. Group, do
S Section, S.R. do
I Section, S.R. do
BB Section, S.R. do
GG Section, S.R. do

YH

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S E C R E T

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C.B.I.17.

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II CORPS COUNTER BATTERY INSTRUCTIONS No. 17.

36 Brigade.
3 Brigade.
43 Brigade.
59 Brigade.
72 Brigade.
70 Brigade.
77 Brigade.
86 Brigade.
87 Brigade.

1. Counter Battery Brigades are allotted the following normal zones of action.

36 Bde. Area between STADENREKE, MASSENA CROSS ROADS (P.25.d.5.8), along road to U.4 central, and the LANGEMARK - POELCAPPELLE - WESTROOSEBEKE - BRYKE - OOSTNIEUWKERKE ROAD.

3 Bde. Area between the Southern Boundary of above and the POTIJZE - ZONNEBEKE - MOORSLEDE ROAD.

77 Bde. Area between the Southern Boundary of the above and line from I.22 central to J.20.a.0.0., thence through P.6 central.

This latter line will be the Southern Counter Battery Boundary from mid-night 22nd/23rd September.

2. The 36th Bde will work with 82nd Squadron R.A.F.

The 3rd Bde " " " 'A' Flight, 7th Squadron R.A.F.

The 77th Bde " " " 'G' Flight, 7th Squadron R.A.F.

3. Brigades will allot a sub-zone to each of their batteries. The battery in whose sub-zone an A.N.F. Call is received will automatically take up the call. If, however, this battery is otherwise engaged the Brigade Commander will detail another battery to answer the call.

Brigades will please forward to this office a map or copy of orders showing sub-division of their areas.

4. N.Fs will be answered by all batteries in the Brigade in whose zone the hostile battery lies. If a large number of calls are being received batteries will give preference to the calls in their own sub-zone.

5. Orders sent from this office by Wireless Spark Transmitter may be sent either to Brigades, or direct to batteries. In the latter case, if the Brigade picks up the call they may use their discretion in detailing another battery instead.

6. Wireless calls sent by balloons will be treated in the same way as those sent by aeroplanes.

7. The/

APPENDIX

-2-

7. The 72nd, 86th, and 87th Brigades will detail zones to such of their batteries as are available for Counter-battery work, for the answering of N.F. calls. The 72nd Brigade being superimposed over the whole C.B. area, the 86th over the Northern half and the 87th over the Southern half. The GRAVENSTAFEL ROAD will be the dividing line between the two Brigades.

When one of the above Brigades is required to answer an A.N.F. call, notification will be sent from this office.

8. ACKNOWLEDGE.

H. H. Schilling
Capt.
R.A.

21/9/18.

for G.O.C.H.A. II Corps.

Copies to-

II Corps R.A.

II Corps H.A.

7 Squadron, R.A.F

7 Balloon Coy.

17 Balloon Coy.

82 Squadron R.A.F.

C.B.S.O. XIX Corps

Belgian Liaison Offr.

C.A.6.D.A. Armee Belge.

SECRET

APPENDIX

C.B.I.18.

II CORPS COUNTER BATTERY INSTRUCTIONS No.18.

= * = * = * = * = * = * = * = * = * =

3 Brigade.
43 Brigade.
59 Brigade.
72 Brigade.
36 Brigade.
70 Brigade.
77 Brigade.
86 Brigade.
87 Brigade.



The following Wireless Calls have been allotted, to come into force immediately.

II Corps Counter Battery Staff Office - U G.

General call for all Heavy and Siege Batteries. - U Q C.

3 Brigade R.G.A.	C S.
43 Brigade R.G.A.	I Q.
59 Brigade R.G.A.	P Y.
70 Brigade R.G.A.	N V.
72 Army Bds R.G.A.	R Z.
77 Brigade R.G.A.	Z X.
86 Brigade R.G.A.	R R.
36 Aust. Brigade.	S B.
87 Brigade R.G.A.	S P.

1. A Spark Wireless Transmitting Station has been erected at II Corps Counter Battery Staff Office, call U G. All Battery and Brigade Spark Wireless Stations should be warned to listen for calls from this Station, as urgent tactical orders will be sent by Wireless.

2. The general call for all H.A. Brigades and Batteries (UQC) will be picked up by all battery and Brigade Stations and reported to Battery Commander or Adjutant immediately. The Central Wireless Station will repeat messages sent by U G if it is considered necessary.

3. Each H.A. Brigade has been allotted a call as above, which is to be taken and acted upon by all Batteries in the Brigade, where applicable. Messages to individual Batteries will be sent direct, using the Battery call.

4. Brigades will pick up and confirm all messages to their Batteries; and if the Brigade is cognizant that for any reason the battery detailed is unable to undertake the task, will detail it to another battery.

5. The attention of Brigades is called to paras 2 and 6 of C.B.I.18.

6. The Code contained in C.B.I.18/b has been slightly amended, and a copy of the amended code is attached. Brigades will inform this office immediately a certificate has been obtained from all batteries that the use of this Wireless system of communication from Counter Battery Staff Office to Batteries is understood by all Battery Officers.

7./This....

7. This system should not be confused with the Continuous Wave Sets in the possession of Brigades.

8. Acknowledge.

Alighieri

Lieut-Col, R.A.

23/9/18.

for G.O.C.H.A. II Corps.

Copies to-

- II Corps R.A.
- II Corps H.A.
- S Section, S.R.
- I Section, S.R.
- GG Section, S.R.
- 7 Balloon Coy.
- 17 Balloon Coy.
- C.W.S. Officer, 7th Squadron.
- Wireless Officer, 7th Squadron.

II Corps
I Corps
P.Y.
N.V.
R.Z.
S.X.
R.R.
S.B.
S.P.

A. A. Spark Wireless Transmitter Station has been erected at II Corps Gunner Battery Staff Office, call U.G. All Battery and Brigade Spark Wireless Stations should be warned to listen for calls from this station, as urgent tactical orders will be sent by Wireless.

B. The general call for all R.A. Brigades and Batteries (U.G.) will be picked up by all Battery and Brigade Stations and reported to Battery Commander or Adjutant immediately. The Central Wireless Station will repeat messages sent by U.G. if it is considered necessary.

C. Each R.A. Brigade has been allotted a call as above, which is to be taken and acted upon by all Batteries in the Brigade, when messages to individual Batteries will be sent direct, using the Battery call.

D. Brigades will pick up and confirm all messages to their Batteries; and if the Brigade is cognizant that for any reason the battery detailed is unable to undertake the task, will detail it to another battery.

E. The attention of Brigades is called to parae B and C of C.B.I.B.

F. The Code contained in C.B.I.B. has been slightly amended, and a copy of the amended code is attached. Brigades will inform this office immediately a certificate has been obtained from all Batteries that the use of this Wireless system of communication from Gunner Battery Staff Office to Batteries is understood by all Battery Officers.

7. The...

APPENDIX

SECRET

Copy No. 2

23rd September 1918.

IInd CORPS HEAVY ARTILLERY INSTRUCTIONS No. 186

1. There will be no movements of artillery prior to the operations, except during the hours of darkness. Reinforcing guns placed in action before I/J night will be carefully concealed and no movement permitted near the gun positions by daylight.
2. Normal harassing fire will be carried out from positions which have already been active. All reinforcing batteries will remain silent until Zero Hour (H)
3. There will be no preliminary bombardment and no indications of the increase of Artillery before Zero Hour.
4. All known hostile batteries will be neutralised from Zero onwards.
Before Zero Hour, enemy batteries which open fire in reply to the preliminary bombardment by the Belgians will be engaged by batteries in original positions. Details of Counter Battery Scheme are given in Appendix I.
5. When the Infantry reach their Final objective, the Artillery should search the ground in front to as great a depth as possible with observed fire. There is to be no protective barrage.

6. OBSERVATION.

In addition to the usual Forward Observing Officers, Balloons etc., a mobile F.S. Observation Group will work close behind the Infantry, approximately on the Line WURST FARM - 19 METRE HILL, and will establish observation in a North-easterly direction.

A C.W. Wireless Set has been allotted to each of the following groups of observing parties :-

- | | | |
|-------------------------|---|---|
| (i) 77th Brigade R.G.A. | } | To advance from Ramparts, YPRES via YEOMANRY POST to STIRLING CASTLE. |
| 29th Divl. Artillery | | |
| 43rd Brigade R.G.A. | | |

To connect with 29th D.A. Headquarters, GOLDFISH CHATEAU.

- | | | |
|--------------------------|---|--|
| (ii) 9th Divl. Artillery | } | To advance from Ramparts, YPRES via POTIJZE, DOUGLAS VILLA to the BROODSEINDE RIDGE. |
| 3rd Brigade R.G.A. | | |

To connect with Corps Observers' Instrument, VLAMERTINGHE CHATEAU.

- | | | |
|---------------------------|---|-------------|
| (iii) 59th Brigade R.G.A. | } | as for (ii) |
| 87th Brigade R.G.A. | | |

To connect with TROIS TOURS.

- | | | |
|--------------------------|---|--|
| (iv) 86th Brigade R.G.A. | } | Via WIELTJE - POMMERN CASTLE and HILL 35 to ABRAHAM HEIGHTS and BELLE VUE. |
| 70th Brigade R.G.A. | | |

To connect with TROIS TOURS.

- (v) 36th Brigade R.G.A. } Under orders of C.B.S.O. via
F.S.Observn.Group } WURST FARM - 19 METRE HILL
72. (Army). Bde RGA. }
- To connect with C.B.Receiving Set.

The above routes are intended as a guide to direction only.
A diagram illustrating the above arrangements and the instructions to H.A.Observing parties is attached as Appendix II.

7. LLAISON.

- (a) One Brigade R.G.A., consisting of 2 - 6" Howitzer Batteries and 2 - 60-Pdr. Batteries will be affiliated to each Division and O.C. Brigade will maintain Liaison between the Heavy Artillery and the Division:-

77th Brigade R.G.A. to 29th Division
3rd Brigade R.G.A. to 9th Division.

- (b) A British Artillery Officer with the C.A.D.A. 6me Division Armee Belge. *Liaison*

- (c) A Belgian Artillery Officer with the Left British Divisional Artillery.

8. COMMUNICATIONS

The general policy is to pool resources in order to maintain at least one main channel of communication from front to rear.

Every possible method of communication between O.Ps. in newly captured territory and Batteries must be fully developed, visual signalling, pigeons, runners, and mounted orderlies being employed to supplement the telephone and C.W.sets.

9. FORWARD MOVES OF ARTILLERY.

As far as practicable, according to the situation, roads will be allotted by II Corps to Divisions as follows:-

- (a) 29th Division. MENIN ROAD and all tracks South of it in the Divisional Area.

- (b) 9th Division. YPRES - ZONNEBEKE Road and all tracks between it and the MENIN Road.

- (c) Sections of Heavy Artillery will be moved forward as opportunity offers, the first to move being those of Brigades attached to Divisions.

10. CO-OPERATION WITH AEROPLANES.

"GF" Calls will be answered by 60-Pdrs. and 6" Howitzers in their own Bombardment Lanes, and by Field Artillery in their own Divisional Areas; one section of each battery which can reach firing 3 rounds gun-fire. This action to be repeated if the call is repeated.

"LL" Calls. One section of each battery that can reach the target will fire, firing 3 rounds gun fire, irrespective of whether the target is in the battery zone or not. The "LL" call will be repeated if a further concentration is required.

If not engaged on other tasks at the time, batteries will take up "LL" calls with all their guns, firing 3 rounds gun-fire.

11. CO-OPERATION WITH BALLOONS.

The location of Kite Balloon Exchanges are shown in Appendix II.

Every effort will be made to use Balloon Observation.

The instructions laid down in Second Army R.A.No.890 letter issued under my Bm 815 dated 21st September -

"Co-operation between Artillery and Balloons by Wireless Telegraphy or by Visual Signalling" will be taken into use forthwith.

350

"3"

APPENDIX

71

12. ACKNOWLEDGE.

Allment

Major R.A.,
Brigade Major H.A. IInd Corps.

Copy

No. 1.	3rd Brigade R.G.A.	"	"
2.	36th	"	"
3.	43rd	"	"
4.	59th	"	"
5.	70th	"	"
6.	72nd	"	"
7.	77th	"	"
8.	86th	"	"
9.	87th	"	"

10.)

11.) War Diary

12. File.

[13 / 25 / 32]

[Appendix 0]

HQ IInd Corps

Location Statement for "B" Siege Park

(Including list of batteries, gun calibres,
gun establishment, ASC officers,
and lorries by make and quantity).

SECRET.

"B" SIEGE PARK LOCATION STATEMENT - 23th., September 1918.

HEADQUARTERS "B" SIEGE PARK.

F.20.b.6.2. Sheet 27.

S.B.A.C.	Calibre.	Estab. of Guns.	OFFICERS.	LORRIES.
DUBLIN CAMP - A.11.c.5.9 Sheet 28.				
Attached 3rd., Brigade R.G.A. - Captain H.A. WARDLE A.S.C.				
88	6"	6	Lt. R.L.G. Errington	15 Peerless
268	6"	6	2/Lt. A.H. Soale	15 Peerless
152	8"	6	2/Lt. P.E. Perkins Q.W.	18 Daimler
			2/Lt. E.L. Morgan Q.W.	1 A.E.C.
21	9.2"	6	2/Lt. H.N. Openshaw	34 Daimler
			2/Lt. R.S. Ingram	
48	60 Pdr.	6		4 Thornys
112	60 Pdr.	6		4 Thornys

HOSPITAL FARM - B.19.d.1.1 Sheet 28.
Attached 36th., Brigade R.G.A. - Captain R.H. LOVEGROVE A.S.C.

1 Aust.	8"	6	Lt. T.H. Richards	18 Albion
			Lt. O.T. Robertson	
2 Aust.	9.2"	6	Lt. W.S. Anderson	34 Albion
			Lt. S.E. Downo	
155	6"	6	Lt. A.C. Boyd	15 Peerless
353	6"	6	2/Lt. S.H. Coates	15 Peerless
140	60 Pdr.	6		4 Dennis
151	60 Pdr.	6		4 Thornys

ALEXANDRA FARM - B.19.a.3.7. Sheet 28.
Attached 43rd., Brigade R.G.A. - Captain J.H. GILL A.S.C.

154	9.2"	6	Lt. A.G. Brown	34 Dennis
			2/Lt. T.H. Wright	
147	6"	6	2/Lt. C.G. Brook	15 Peerless
190	6"	4	2/Lt. C.J. Fisher Q.W.	11 Peerless
351	6"	6	2/Lt. H.F. Goddon	15 Peerless

KARTE FARM - B.19.d.8.8. Sheet 28.
Attached 59th., Brigade R.G.A. - Captain R.N. HENLEY A.S.C.

37	6"	6	2/Lt. J.W. Wobb	15 Karrier
335	6"	4	2/Lt. C.H. Harrington	11 Karrier
350	6"	4	2/Lt. T.P. Murray	11 Karrier
30	8"	6	Lt. A.A. Ure	17 Karrier
			2/Lt. A. Buckloy	2 Albion

SHELLHOEK - A.28.a.7.3 & G.3.a. Sheet 28.
Attached 70th., Brigade R.G.A. - Captain F.H.F. PILKINGTON A.S.C.

12	9.2"	6	Lt. H. Hart	31 Dennis
			2/Lt. A.H. Bowen	3 Thornys
15	6"	6	Lt. F. Middleton	10 Albion
				5 Thornys
157	6"	6	Lt. C. Brocklohurst	14 Thornys
				1 Albion
217	6"	6	2/Lt. S.G.W. Norton	13 Karrier
				1 Thorny
				1 Swiss Berna

P.T. O.

POPERINGHE - PROVEN ROAD - F.23.d.8.2. Sheet 27.

Attached 72nd., Brigade R.G.A. - Captain N.H. MONRO A.S.C.

375	12"	2	Captain R. Waudby	23 Peerless
			2/Lt. R.H. Wobb	
			2/Lt. N. Crossland W.	
198	6" Mk.7.	4	Lt. J.C. Berrage Moulton	20 Peerless
			2/Lt. D.C. Davis	1 Daimler (30 cwt)
526	6" Mk.19.	4	2/Lt. A.E.W. Trehorne	16 Thornys
			2/Lt. J.E. Weaving	
29	6" Mk.7	4	2/Lt. C. Thain	19 Maudslays
			2/Lt. C.M. Sugdon	
187	6" Mk.19	4	2/Lt. J.T. Gardiner	16 Peerless
			2/Lt. W.R. Felt	

PESELHOEK - A.26.a.9.8. Sheet 28.

Attached 77th., Brigade R.G.A. - Captain R.R. HESKETH A.S.C.

116	6"	6	2/Lt. C.C. Ingham	7 Daimler 1 A.E.C. 2 Thornys 4 Peerless
119	6"	6	2/Lt. T.M. Robinson	4 Locos. 4 Daimler 1 A.E.C. 5 Peerless 1 Albion
191	9.2"	6	Lt. H.C. Baker M.C. Lt. J. Nelson.	11 Locos. 15 Peerless 4 Albion 1 A.E.C. 1 Daimler
286	8"	6	2/Lt. D.S.D. Williams 2/Lt. H. Millor	16 Peerless 1 Albion 4 Thornys. 1 Albion 2 Peerless 1 Daimler
9	60 Pdr.	6		
26	60 Pdr.	6		

ALEXANDRA FARM - B.19.a.3.7. Sheet 28.

Attached 86th., Brigade R.G.A. - Captain A.T. ATKINS A.S.C.

324	6"	6	2/Lt. G.F. Parsons	11 Albions 4 Peerless
203	6"	6	2/Lt. J.L. Church	7 Albions 4 Thornys 4 Peerless
1/1 Wossex 60 Pdr.		6		1 Karrier 2 Thornys 1 Albion
141	60 Pdr.	6		1 Peerless 3 Albions.

STEENTJE - A.23.b.9.8. Sheet 28.

Attached 87th., Brigade R.G.A. - Captain D.B. ROSE A.S.C.

194	6"	6	2/Lt. L.O.R. Ashloy	12 Karrier
219	6"	6	Lt. H.L. Fennor	15 Karrier
154	60 Pdr.	6		2 Albion 2 Daimler
156	60 Pdr.	6		4 Peerless

"B" SIEGE PARK WORKSHOPS
Workshop for Cars and Cycles
ADVANCED WORKSHOP
Caterpillar Workshop
Heavy Artillery Supply Column

WORMHOUDT - BERGUES ROAD
TUNNELERS CAMP) F.21.c.central
TUNNELERS CAMP) Sheet 27.
DUBLIN CAMP - A.11.c.5.9. Sht. 28
OOST CAPPEL.

In the Field,
28th., September 1918

A. Conain Major A.S.C.,
Commanding "B" Siege Park,
attached IInd., Corps.