

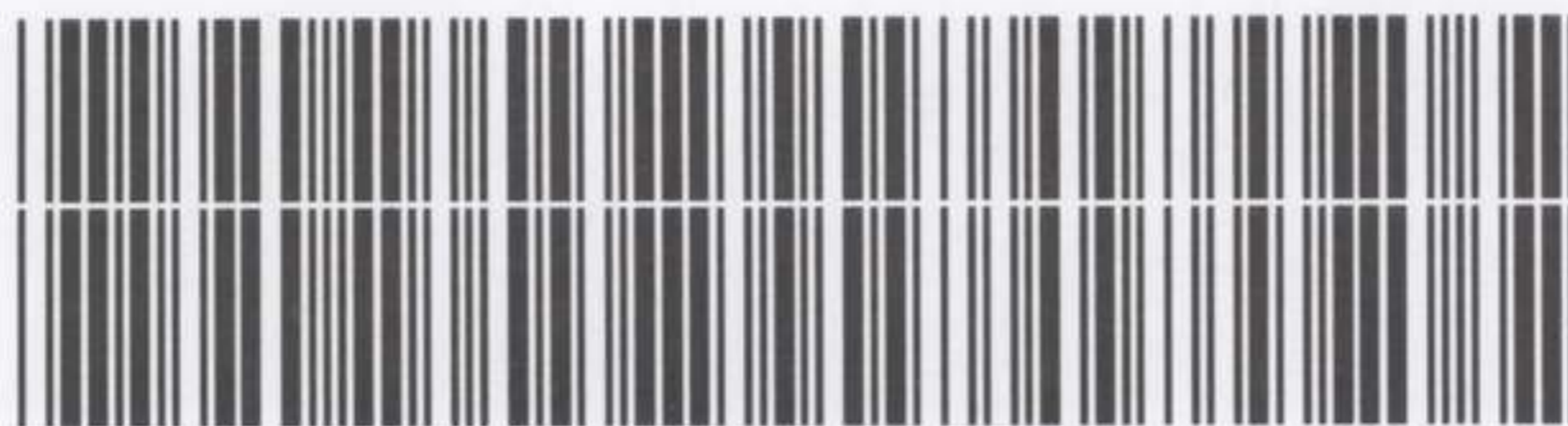
AWM4
Australian Imperial Force unit war diaries,
1914-18 War

Engineers

Item number: 14/9/13

Title: Headquarters 3rd Australian
Divisional Engineers

July 1918



AWM4-14/9/13

ORIGINAL.

CONFIDENTIAL.



WAR DIARY

OF

Aus. Corps. Wire Less Section

From *1st July 1918*

To *31st July 1918*

VOL. No.

R. 25,000-5/18-11212.



b.

CONFIDENTIAL.

ORIGINAL.
~~DUPLICATE.~~
~~TRIPLICATE.~~

Australian Imperial Force.

WAR DIARY

OF

H.Q. 3RD AUSTRALIAN DIVISIONAL ENGINEERS.

FOR

J U L Y 1918

Signature of Officer compiling

Johnson
LIEUT. & ADJT.

Signature of Officer Commanding

H. Rankford
LT. COLONEL
CRE., 3RD AUSTRALIAN DIVISION



Instructions regarding War Diaries and Intelligence Summaries are contained in F. S. Regs., Part II, and the Staff Manual respectively. Title pages will be prepared in manuscript.

WAR DIARY

or

INTELLIGENCE SUMMARY.

(Erase heading not required.)

Headquarters

3rd Australian Divisional Engineers

Australian Imperial Force

Army Form C. 2118.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
COISY	1/7/18		CRG's office situated at COISY	
FRANCE A 27. C 00.70 SHEET 62.0	6/7/18		Divisional Commander accompanied by CE Aust Corps inspected this morning transport of 9 th and 10 th Field Companies and 3 rd Pioneer Battalion	
	8/7/18		CRG visited CRG 4 th Aust Division re details of coming relief	
	9/7/18		CRG attended Divisional Commander's Conference held at ALLONVILLE at 3pm. 3 rd Aust Div. Order No 98 received and Engineer Instruction No 15 issued accordingly	appendix 3
	10/7/18		CRG held a conference this morning at 10.30 of Company Commanders and Pioneer Battalion Commanders	
	11/7/18		CRG went round forward area of 'B' Divisional Area with CRG 4 th Aust Div. in view of coming relief.	
	12/7/18		Field Companies and Pioneers moved today in accordance with Engineer Instruction No 15.	
	BUSSY	13/7/18		CRG took over duties of CRG 'B' Divisional Area from CRG 4 th Aust Div at 10am CRG's office moved from COISY to BUSSY
FRANCE SHEET 62.0 H. 35. C 48	14/7/18		CRG accompanied Divisional Commander round forward area of right brigade sector and decided on defence works to be constructed South of the River SOMME Estimated list of parties required for work forwarded to Division	appendix 4



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Army Form C. 2118.

3rd Australian Divisional Engineers

Australian Imperial Force

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Bussy	15/7/18		CRG arranged with CO. 3 rd Pioneer Battalion to employ 2 Companies wiring old Support Line. P. 19 central - P. 7 d.o.o. - P. 32 d.o.o. - Sheet 62 ^o and also conferred with OC 9 th Field Coy reference Works Policy in this sector.	
"	16/7/18		CRG attended CE's Conference of CRG's at 10 am at Corps H.Q. BERTANGLES	
"	17/7/18		CE. Aust. Corps visited CRG re arrangements of photo etc at M.D.S. N.4.C.8.3. CRG in afternoon with OC 1 st Aust. Tunneling Coy and D.A.D.M.S. went forward and fixed sites for a tunnelled urgent R.A.P. at P. 9.9.4.3 and bearer relay posts at P. 13. d 2.3 and P. 8.6.0.7.	
"	20/7/18		Works report with tracing forwarded to 'G' 3 rd Aust. Div. and C.E.	appendix 2a
"	23/7/18		CRG and GSO 2 went over right brigade area together and decided on improvements to reserve and intermediate lines and locations of switching lines in P. 19 and 20.	
"	24/7/18		CRG and GSO 2 went over left brigade area together and decided on improvements to reserve line and location of wire	
"	25/7/18		Lieut BARTLETT U.S.A. Engineers reported for a 2 days experience in line work and is attached to 10 th Field Coy Engineers.	
"	27/7/18		CRG with O.C. 9 th Field Coy and 2 nd Coy 3 rd Pioneer Battalion arranged for wiring	



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WAR DIARY
or
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Headquarters

3rd Australian Divisional Engineers

Australian Imperial Force

Army Form C. 2118.

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Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Bussy	27/7/18		to be done on left half intermediate line. weekly works report and tracing forwarded to C.E. Aust Corps and G 3 rd Aust Div.	Appendix 2(b)
FRANCE	29/7/18		3 rd Aust Div order N ^o 101 and C.E. Engrs Instruction N ^o 133 received and Engrs Instruction N ^o 17 issued accordingly.	Appendix 3(c)
FRANCE	31/7/18		Proposed design for standard stables forwarded to C.E. Lieut. N. JOHNSON M.C. reconnoitred AMIENS-ALBERT railway from CORBIE to BUIRE taking all yesterday and this morning.	Appendix 6 Appendix 7

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WAR DIARY

OF

H. Q. 3rd. Australian Divisional Engineers

FOR

JULY 1918

LIST OF APPENDICES.

No.	Subject.
1.	Messages sent and received during July.
2 a.	Works Report 19.7.18.
b.	2 " " 26.7.18
3 a.	Engineer Instruction No.15
b.	16
c.	17
4.	Estimated list of working parties required.
5.	C.R.E's Works Memo No.13
6.	Design for standard stables
7.	Report AMIENS- ALBERT Railway
8.	Plan showing forward area "B" divisional Sector 31.7.18.



From C.E. Aust. Corps. S.O.1000 E68/2/123. 1.7.18.
 I have now two Australian Tunnelling Companies and one British in the Corps, so there is plenty of talent. I suggest for your consideration that you might take up the question of getting decent dugout accomodation for the Field Coys. in the forward areas. Why shouldn't they have it? You might think it over and let me know."

To C.E. Aust. Corps. E 68/2/123. 7.7.18.
 "In reply to your S.O. 1000 of the 1st. inst. I consider that the two line Field Coys. should have dugout accomodation which should only be started when platoon dugouts are being put in hand. Prior to being relieved in "A" Divisional Area dugouts for the two forward Field Coys. were started."

From C.E. Aust. Corps. S.O.1000/3 E68/2/123. 7.7.18.
 "All right, get on with it."

From C.E. Aust. Corps. 240/256. E76/1/146. 2.7.18.
 "Arrangements have been made whereby the Divisions may draw from Poulainville R.E. Dump with their own transport, up to 4 tons road metal per Division each day, for the maintenance of approaches, and horse standings, at Water Points in their Area."

To 3rd. Pioneer Bn. B.33 8.7.18.
 "Detail one N.C.O. and 18 carpenters to work from 10th. inst. erecting huts at 4 D.H.Q. under orders C.R.E. 4 aaa Tools to be carried aaa Addsd 3rd. Pioneers reptd C.R.E. 4 and 3rd. Div. Q"

To 9th. Field Co. E76/1/150. 10.7.18.
 "Reference Dugout at Gas Training Ground. - Please detail same N.C.O. who estimated materials for above to report at site for dugout at 2 p.m. 11th. inst. and 9 a.m. 12th. inst. to supervise construction. Infantry working party of 10 men will report there and work from 2 p.m. to 5 p.m. 11th. inst. and from 9 a.m. to 12 noon following day. Material will be delivered to site tomorrow afternoon 11th. inst."

To 11th. Field Co. B.34 11.7.18.
 "Two of your officers will relieve the two 4th. Div. officers employed with artillery brigades aaa Addsd 11th. Field Coy. rptd 9th. and 10th. Field Coys."

To 9th. Field Co. E68/1/16 13.7.18.
 10th. Field Co.
 "Please prepare and forward to C.R.E. as soon as possible:-
 (a) Report on siting of intermediate line in your area, and rough sketch showing work to be done.
 (b) Report on siting of Reserve Line, and rough sketch showing work to be done.
 (c) Report on proposed C.T's leading up to the support line.
 (a) and (b) to be accompanied by any recommendation you suggest for improving the siting (after consultation with your Brigade)
 10th. Field Co. in addition, will submit suggested location of a switch line in P.14. to defend head of main valley."

From 9th. Field Co. E68/1/16. 17.7.18.
 "Reference your E68/1/16 of 13th. inst. - I forward herewith rough plan shewing approximate positions for proposed four line of Defences, and communication trenches between them, (in red). A - B to be re-sited as shewn. C - D is very broken up and requires a lot of work. X - Y is being sited, and digging will be commenced tonight. T - S is only very approximate; not properly reconnoitred.
 Communications.- B - K is being dug by Pioneers. L - M is in progress. W - Y, digging well in hand. V - U is not yet dug. By this scheme there will be two communications (as shewn on plan) from Second Reserve Line to Front Line; T - K on left, and Z - Q on right.
 In low ground along river in these lines, in most cases it will not be possible to have continuous trenches. M.G. and (breastwork) Posts could perhaps be fitted in.
 Brigade are conversant and concur with this arrangement."

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From 11th. Field Co. E209 15.7.18.
 "Bridge abutment DAOURS 9 damaged by shell N.6.d.8.8. should be closed to lorries until noon 17th. aa Horse traffic can use aa Traffic N.C.O. DAOURS advised aa Repairs in hand aa Confirming telephone message."

To C.E. Aust. Corps. B 36 15.7.18.
 "Bridge DAOURS No. 9 slightly damaged by shell fire aa Closed only to lorry traffic until noon 17th. inst. aa Addsd C.E. Aust. Corps Rptd. 3rd. Aust. Div. and A.P.M. 3rd. Aust. Division."

To 3rd. Aust. Div. E81/72 13.7.18.
 "Proposed Divisional Works Policy. - Brigades in the line to be responsible for -

- (a) The siting, construction and wiring of all fire and communication trenches forward and inclusive of, the support line.
- (b) Supplying labour for the construction of any deep dugouts required for Brigade, Battalion or Company Headquarters.

Division to be responsible for -

- (a) The siting and construction of all defences in rear of the support line.
- (b) Supplying labour for all other deep dugouts."

To 11th. Field Co. E75/37 14.7.18.
 "Detail 1 N.C.O. to report POULAINVILLE R.E. Dump tomorrow morning aa 48 hours rations to be carried."

To 9th. 10th. and 11th. Field Co. E81/73 15.7.18.
 "In the event of your Company having to take up battle stations to fight as Infantry, the following will be sent back to the Company horse lines:

Officers in excess of	3.
Sergeants	2.
Corporals.	2.
2/Cpls.	2.
L/Cpls	6.

In the event of the above happening the names of Officers, and the number of N.C.Os. sent back will be at once notified to C.R.E.

These will be available for immediate reinforcements or to assist in reconstructing the Company after a battle."

To 11th. Field Co. E76/1/156 16.7.18.
 "Please detail 2 machinists to report to Area Commandant Bussy, at 9 a.m. tomorrow 17th. inst. for dismantling machinery at DAOURS."

To 1st. Aust. Tun. Coy. B 37 16.7.18.
 "63 men will report Lieut. Lindsay 9 a.m. Cross Roads O.6.d.7.1. tomorrow 17th. inst. aa"

To 10th. Field Co. B.38 16.7.18.
 "Send officer meet Maj. Read, 5th. Field Coy. at Battalion, H.Q. P.19.c.1.2. 9 a.m. 17th. inst. to locate exact position of right flank post."

To 9th. Field Co. B.36. 16.7.18.
 "Reference 150 men for wiring reserve line aa send particulars where when and to whom you want them to report etc."

From 9th. Field Co. 16.7.18.
 "Reference your wire B.36. Require party of 150 men for digging Reserve Line in P.3.a. and c. 17th. at 9.45 p.m. Every man requires a shovel and every other man a pick. Could officer i/c Party meet Lt. Mason at J.19.c.6.4. (9th. Field Co. H.Q.) at 3 p.m. tomorrow 17th - to arrange details

From OC. 16th. Brigade R.H.A.
 To Brigade Major, 4th. Aust. Div. Arty.
 "With reference to the proposed new bridge across the SOMME in J.25.d. I strongly recommend that this should be constructed at or about J.25.a.5.0. for the following reasons:-

- (a) The approaches on both banks are at present good - there is time to construct a corduroy track before the winter.
- (b) It would avoid having to pass through the villages of VAIRE and VAUX.
- (c) It would be an alternate route to the existing ferry Bridge at the CIRCULAR QUAY.
- (d) It appears that a bridge was once contemplated here as timber has been cut and hauled close by."

3.

From C.R.E. 4th. Aust. Division.

C5/53

13.7.18.

"May bridge to carry Field Artillery be erected in Square J.25.c. please."

Aust. Division.

E68/9/40.

16.7.18.

"Proposed Road Bridge across SOMME at J.25.a.6.0. - At the present time, except for the dormant pontoon bridge at J.26.c.0.2. which is swung every night, there is no other bridge east of CORBIE capable of taking horse transport or field guns.

I therefore propose to commence at once a bridge at J.25.a.6.0. to carry 60 pounders, as per attached sketch. This will involve about 750x of plank road, and is the next best site to the VAUX-VAIRE Road. This site is well sheltered and can be screened from balloon observation. I do not think it advisable to place it at J.26.c.0.2., as this is the only possible route east of CORBIE at present, and would therefore be probably shelled. The Divisional Artillery have asked for a permanent bridge to be built in J.25. Shall I arrange for this work to be done, please."

From G. 3rd. Aust. Div. SG401/32/117. E68/9/40.

17.7.18.

"Reference your E68/9/40. of 16th. inst.- The Divisional Commander has approved of this work being undertaken."

From C.E. Aust. Corps.

P 847

16.7.18.

"4 lorries rept-g Albury R.E.Dump Vecquemont daily 8 a.m. for you aaa arrange guide."

To 1st. Aust. Tunnelling Co. B.39 17.7.18.

"3 shifts of 12 men commence reporting 9 a.m. and every 8 hours at Quarry P.7.a.0.2. for Artillery Group H.Q. Dugout from tomorrow 18th. inst."

From 3rd. Aust. Division. Q 672 17.7.18.

"Detail 12 G.S. Limbers with teams report nightly sheet 62d O.10.b.7.6 at intervals from 8-30 p.m. 18th. July, transport R.E. Material forward aaa Guides and loading party available dump aaa addsd M.G. Battn. reptd C.R.E."

To 3rd. Pioneer Bn. B.40 18.7.18.

"Commencing tonight 12 limbers from Machine Gunners report FOUILLOY DUMP O.10.b.7.6. at intervals commencing 8.30 p.m. for taking wiring stores to Reserve Line nightly aaa 9 limbers for you and 3 for 10th. Field Co. aaa Units will make all arrangements for guides and loading parties aaa Addsd 3rd. Pioneers reptd 10th. Field Coy. and 3rd. M.G. Bn. "

From 3rd. Aust. Div. G401/50/13. 16.7.18.

"11th. Inf. Bde. will please arrange to send a party of two Platoons (not less than 63 working men) to the 1st. Aust. Tunnelling Coy. for work on tunnelled dugouts.

The party will carry 48 hours rations and will take its own Cooks and utensils. It will be rationed and quartered by the Tunnelling Coy.

Motor lorries will pick the party up at 11th. Aust. Inf. Bde. Headquarters at 9 a.m. on the 17th. instant under arrangements to be made by the C.R.E."

To 1st. Aust. Tunnelling Coy. E68/13/19 17-7-18.

"On the morning of 14th inst I personally arranged with you for the construction of three mined dugouts for R.A.P'S. and asked you to get in touch with Major Vickers D.A.D.M.S. 3rd. Aust Div. re the exact sites. At the same time you stated that you wanted a working party of 63 men for this work.

Yesterday afternoon I again personally arranged with you about the party of 63 men and confirmed it in my wire B.37 of 16th, inst:- 1st. Aust. Tun. Coy. B.37.16 aaa 63 men will report Lieut. Lindsay 9a.m. Cross roads O.6.d.7.1. tomorrow 17th. inst. aaa C.R.E. 3rd Aust. Div "

This morning your officer met this party and stated that he didn't want them until 1P.M. and only wanted two shifts of 15 men.

Please let me have as soon as possible a full report of this.

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From 1st Aust. Tunnelling Coy.

23-7-18

17/176

APPENDIX 18

"The attached correspondence is forwarded for your approval and in reply to para. 4 of your E 68/13/19.

It will be seen from the statements made by Lieuts. Justice and Mayo that the arrangements made personally would have sufficed if they had suited the infantry.

The men were obtained for the purpose of working in shifts and consequently all the party would not be required to work at once. My officers in the Forward Area must be allowed latitude in the matters in order to attain efficient organisation.

Perhaps it will be better in the future not to hurry these matters up and put them through the usual channels, then arrangements can be made direct with the units supplying the labor and so eliminate misunderstandings.

To C.E.

3rd. Aust. Div. (for information) 68/2/130

16-7-18.

Approval please is requested for the construction of mined dugouts as under :-

O.17.b.9.7.	Standard battery dugout for 'D' Battery 189 Army Bde R.F.A. Field Coy. under supervision of 1st. Aust. Tun. Coy.	To be constructed by 11
P. 7.c.2 7.	Standard Battery dugout for 'A' Battery 16 Bde R.H.A.	-do-
P.7.a.0.2.	Standard dugout for H.Q. Artillery Group Commander	1st. Aust. Tunn. Coy.

From C.E. Aust. Corps.

"Approval is given for the construction of the following dugouts Those dugouts at O.17b.9.7., P.7.c.2.7 and P.7.a.0.2. as asked for in your 68/2/130"

To 3rd. Aust Div. E68/1/17

17-7-18. Hank

Herewith sketch showing position on our right post. Lieut. Mahy 10 Field Coy. is responsible for the location

To 3rd. Pioneers 18-7-18.

Detail one limber daily to salve barbed wire and pickets in forward area up to our old front line and to be collected into dumps adjacent to roads and handy to your present work. Dumps to be notice boarded and location sent to this office.

To

9th. Field Coy. 18-7-18.

"Report whether work is being done on R.A.P.S. I 30.b.3.5. and J 28 c 8.9. re setting stretcher racks and finishing off dugouts"

To 10th Field Coy.

3 M.G. Battn.

3 Pioneers B.43, 19-7-18

"Reference my B.40. Allotment on 20 and 21st. will be 6 to you and 6 to 10 Field Coy. Addsd. 3rd. Pioneers and rptd. 10 Field Coy."

From 9th. Field Coy G.67/39 19-7-18

"Reference your wire No. B.42 of 18th inst. I have to report that work is being done at J.28.c.8.9. Gas doors were arranged yesterday and arrangements have been made for other work.

Nothing is being done at R.A.P. 1.30.b.3.5. Will send N.C.O. along today and ascertain their requirements.

To C.E. Aust. Corps. E.68/2/133

19-7-18.

"A.D.M.S. 2nd Aust. Div. has reported to me that A.D.S. dugout at M.5.c.7.3. is complete except for stretcher racks.

He is anxious for racks to be installed, please may the 1st. Tunnelling Co. do this work."

)))
From C.E. Aust. Corps

20-7-18.

"1st. Aust. Tunn. Coy has been instructed to take this work in hand"

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 To 9th. Field Coy.
 10th. "
 11th. "
 3rd. Pioneer Batt.

E. 76/1/157

19-7-18

" Wiring stores- Thereis no allotment of the above stores.
 The Field Coys and Pioneer Battalion can draw on their own signatures at
 the Divisional Dump FOUILLOU "

To C.E. Aust. Corps B44 19-7-18
 2 Repairs being effected to handrails and balustrade of No.1 Bridge
 La NEUVILLE group I.33.c.8.1. damaged by tractors "

To 9th. Field Coy. B45 20-7-18
 " Please install stretcher racks as per attached plan in R.A.P. at
 I.30.b.3.5. "

To 3rd. Pioneers B46 19-7-18
 " Complete machine gun dugout No. 109 at J.29.c.5.6 aaa.
 Attached find sketch showing state of completion aaa. "

To 3rd. Pioneers B.1. 19-7-18
 10th. Field Coy.
 3rd. M.G. Batt.
 " Reference my B40 18th. inst. aaa Limbers only make one trip forward
 each nightaaa Adssd 3rd. Pioneers rept. 10th. Field Coy and 3rd. M.G.Battn. "

To 10th. Field Coy. B.2. 19-7-18.
 " At about P.8.b.0.7. an excavation has been dug out of the sunken road
 to hold an ambulance car. aaa Please arrange to camouflage this "


From C.E. Aust. Corps. E 68/2/132 20-7-18
 "Approval is given for the construction of the following mined dugouts
 P.9.a.4.3 Standard R.A.P. Constructed by 1st. Aust. Coy.
 P.13.d.2.3. Standard Bearer Relay Post do. do.
 P.8.b.0.7. do. do. do. do. do. do. do. do.
 P.4.a.5.6. Standard combined Battalion Headqes.
 and R.A.P. By 9th. Field Coy under
 supervision of 1st. A.T.Coy
 Bearer Relay Posts to be constructed as per the attached
 revised standard.

3rd. Aust. Div. E.81/75 21-7-18
 To " Proposed Organisation of the Defences of the Divisional Sector.
 Forward of the AUBIGNY system the defences to be organized into 2 systems
 a. Forward System
 b. Reserve system
 Thses are shown color washed Red and Green respectively on the attached
 map.

- (a) Forward system to comprise the outpost, front and support lines
 Brigades in the line to be responsible for the siting and construction
 of the system
 (b) Reserve system to consist of a front and support system connected
 together by switch lines . Division will be rsponsible for the siting
 and construction of this system.
 As much as possible of our old original front and support lines to
 be embodied in this system and have machine gun dugouts constructed in it

3rd. Pioneer Battalion E. 76/1/158 21-7-18
 "Please arrange for four men to cut pit props in Bois 1' Abbe . Party will
 report to Forestry Officer 'A' Division at 6th. Field Coy. H.Q. O.25.d.2.7.
 Who will show them where to cut. Particulars of threes to be kept.
 Please advise when of lorry load can be drawn

To 3rd. Aust. Div.
 The following is what I propose should be the general way in which
 working parties for C.R.E. should be arranged.
 The C.R.E. will state in his requirements the strength of the party
 whether a day or night one and which Field Coy. will supervise, and the
 date on which it is desired to commence work.
 The Field Company on recieving the above particulars and the Brigade
 details, to supply will then send an officer to Bde, H.Q. to arrange all other

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 details.

To have time I suggest that the message sent to Brigade author-
 ity the party besides being repeated to C.R.E. be also repeated to the
 Field Coy."

To 3rd. Pioneers
 10th. Field Coy. B 3 22.7.18
 3rd. M.G. Batt.

" Reference my B 40 18th, inst. aaa Allotment from to night until further
 notice 8 limbers 3rd. Pioneers 4 10th. Field Coy. aaa Addsd 3rd.
 Pioneers and restd. 10th. Field Coy and 3rd. M.G. Batt. "

From C.E. Aust. Corps 603335/2 24.7.18
 " Approval is given for the construction of mined dugouts as follows
 Location Type Labor
 P. 20 cent M.G. dugout(champagne type) Unskilled labor
 P.8.d.8.9. " " supplied by division
 P.2.d.8.4. " " supervised by 1st. T.
 Coy A.E.

Siting of M.G. Positions to be done by O.C. 3rd. M.G. Batt.

From C.E. Aust. Corps 68/2/135 24.7.18.
 " Approval is given for the construction of mined dugouts for
 Battery Personnel as follows:-
 J.25.b.1.6. Standard Type 11th. Field Coy. A.E.
 J. 26.b.1.2. -do.- under supervision of
 J.27.c.2.8. -do.- 1st. Aust. Tunn. Coy.

To "g" 3rd. Aust. Div. E 68/1/22 24.7.18.
 Commencing from 25th. inst. can strength of parties be increased
 as under , please
 8A from 30 to 46 men
 8B " 120 to 130 men "

To 3rd. Pioneers
 10th. Field Coy
 3rd. M.G. Batt. B4 25.7.18
 " Allotment limbers as from 26 until further notice 5 Pioneers 7 10 Field
 Coy aaa Adssd. 3rd. Pioneers retd 10 Field Coy and 3rd. M.G. Batt."

From 3rd. Aust. Div. "Q" 145/230 21.7.18
 " The system of training Officers for the A.I.F. through Cadet Courses
 has shown that the selection of candidates has been made very judiciously.
 Will you please report fully what method is adopted by you in the
 selection of these candidates recommended. The report should state
 inter alia
 a. Whether prospective candidates are noted for any length of time
 before recommendation.
 b. Whether any special training or opportunity of gaining knowledge
 are given them.
 c. To what extent the recommendations are one of personal knowledge e.g.
 whether candidates are personally interviewed.
 d. What standard of qualification is aimed at.

To 3rd. Aust. Div.
 " The method adopted in the Divisional Engineers has been , invariably
 to note and watch prospective candidates for some months .
 A total of 17 N.C.O's . comprising 1 R.S.M., 8 C.S.M., 2 H.Q.Sgts.
 4 Sgts. and 2 Cpls. have, to date, received Engineer commissions, and
 it will thus be seen that on account of their work the majority of these
 men had opportunities of gaining knowledge and experience for their
 future rank.

All men are personally interviewed before being recom mended
 and special stress is laid on good professional and educational
 qualifications, and of course no man is recommended unless he is a good
 leader and reliable under fire.

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To 1st. Aust. Tunn. Coy.

E.68/2/ 142

1. Reference Dugout No. 1 for M.G.E. at J.29.c.5.7. Your report of the 24th inst. shows no work done during the last week. It is desired that this dugout should be completed as soon as possible.
2. Reference Dugout No. H.34. No. 1 for Divisional Headquarters at H.34.d.3.3. May a bore hole or shaft be sunk adjacent to the signal dugout to improve the ventilation"

From 1st. Tunn. Coy. A.E.

"Reference your E. 68/23142. 28.7.18.

Para 1. The plan does not show preliminary work (that is pilot gallery) At present this M.G.E. is complete according to plan and the full 9x7' face for the cuddy will be shown in next week's report.

Para 2. This D.O. will be visited by one of my officers with a view to improving ventilation."

To 3rd. Pioneers

3rd. M.G. Batt.

B 5

28;7.18

" Reference my B4 of 25inst.aaa Limbers for Pioneers cancelled for tonight only Addsd. 3rd. Pioneers rept. 3rd. M.G. Btn. "

To 9th. Field Coy.

B 6

28. 7. 18

" Gas proof and strengthen cellars at J.32.c.2.8 used by A.M.C. "

To 11th. Field Coy.

B 7

28.7.18

" Submit plan bridge J. 25.a.6.0 . aaa. Required for C.E. "

To C.R.E. 18 Div.

B 8

28. 7. 18.

" Wire me Field Coy. taking over from 9th. Field Coy. North of SOMME H.Q. J.19.c.6.4. "

To 9th. Field Coy.

E.69/1/107

"At 10 a.m. 1st. August the Northern Boundary of 3rd. Aust. Div. will be H.22.b.1.7. h.24.a.9.8, J.25.a.0.0. thence eastward along the northern bank of the SOMME Canal.

This boundary will also be the northern boundary of the Aust. Corps the 111 Corps taking over the area at present held by us north of this line.

Please let me have as soon as possible a list of the work in hand in this area you will hand over accompanied by a sketch.

Your headquarters will remain as at present until other suitable accommodation is available "

To 10 Field Coy.

E 336

28.7.18.

Working party 8 B cancelled.

To 11 Field Coy.

E 335

31.7.18.

Working party No. 7 cancelled.

3/4

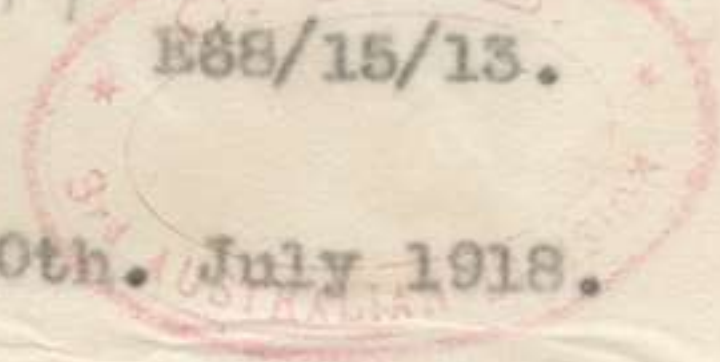
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THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

Appendix 1



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1.- The following Road Mines are to be unloaded by Field Companies concerned forthwith. Explosives so obtained will be returned to POULAINVILLE DUMP if not required, and mine entrance securely closed, but so that it may be readily opened up again if necessary.-

<u>Serial No.</u>	<u>Location.</u>	<u>Responsibility.</u>
C.	H. 6.a.7.4.	9th. Field Co.
D.	H.12.c.5.2.	10th. Field Co.
E.	H.18.c.3.3.	10th. Field Co.
F.	H.29.b.5.0.	10th. Field Co.
5.	M.32.b.2.8.	11th. Field Co.

2.- Field Companies will at once prepare ^{triflicate} duplicate sketches of all bridges under their control which are charged or to be charged for demolition with full particulars noted thereon of weight and position of charges and method of firing to be used - whether fuze or electrical. Any other information ^{available as} to date when charge was laid or last examined, resistance of electric circuits, etc. should also be noted on drawings. One set of these drawings should be handed over with the guarding of the bridges to the relieving troops; the other ^{copy} is to be forwarded to the G.R.E. After the sketches have been forwarded to the G.R.E. any alteration of charges or demolition arrangements should be reported to him at once.

3.- Sketches now held by G.R.E. are returned to Field Companies to assist them in preparing new sketches.

Sgt H Bachloed

Lieut-Colonel.
C.R.E. Third Australian Division.





THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

Appendix I
E68/9/40

13

Headquarters,
3rd. Australian Division.

16th. July, 1918.

Proposed Road Bridge across SONME at J.25.a.6.0.

At the present time, except for the dormant pontoon bridge at J.26.c.0.2. which is swung every night, there is no other bridge east of CORBIE capable of taking horse transport or field guns.

I therefore propose to commence at once a bridge at J.25.a.6.0. to carry 60 pounders, as per attached sketch.

This will involve about 750z of plank road, and is the next best site to the VAUX-VAIRE Road. This site is well sheltered and can be screened from balloon observation.

I do not think it advisable to place it at J.26.c.0.2., as this is the only possible route east of CORBIE at present, and would therefore be probably shelled.

The Divisional Artillery have asked for a permanent bridge to be built in J.25.

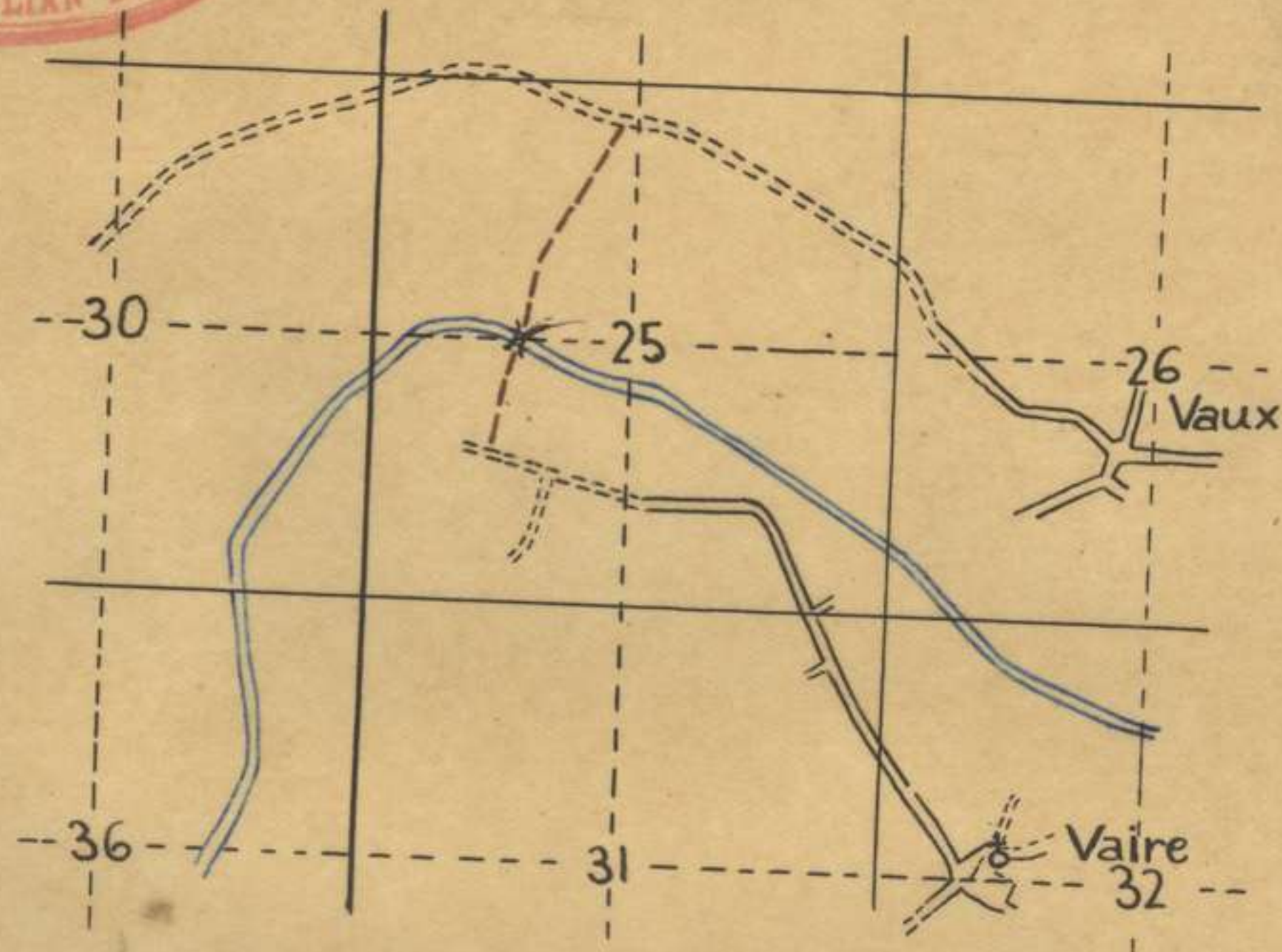
Sydney H. Bachold

Lieut-Colonel.
C.R.E. Third Australian Division.





Appendix 1



PROPOSED SITE & APPROACHES OF
BRIDGE OVER R. SOMME AT Sheet 62^D
J.25. a. 6.0. to Carry 60 Pounders.
Scale. 1:20,000

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Appendix 1
E68/13/25
22nd July, 1918.



THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

3rd. Australian Division.

The following is what I propose should be the general way in which working parties for the C.R.E. should be arranged.-

The C.R.E. will state in his requirements the strength of party, whether a night or day one, nature of work, which Field Coy. will supervize, and the date on which it is desired that work commences.

The field company on receiving the above particulars, and, also as to which Brigade is supplying the men, will then send an officer to Brigade Headquarters to arrange all other details.

To save time I suggest that the message sent to Brigade authorising the party, besides being repeated to C.R.E., be also repeated to the Field Company.

H. BACHTOLD

Lieut-Colonel.

C.R.E. Third Australian Division.





THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.



25th. July, 1918.

"G".
3rd. Australian Division.

Reference your G 25/544 - "WIRING"

1. (a). Experience of the Field Companies of this Division has proved that wiring parties are best organised on the lines suggested. Thus in erecting a double apron fence two men (the leaders) would do nothing but carry and lay out posts and pickets - one post and two pickets laid together in the position for each post. The post should be laid parallel to the line of the obstacle.
- | | | | | | | | | | | |
|---|-----|-------|----|---------|-----|-------|-----|--------|----------|---------------------------------|
| 2 | men | would | do | nothing | but | screw | in | posts | and | pickets. |
| 2 | " | " | " | " | " | wire | the | front | apron | wherever they |
| | | | | | | | | | | find posts and pickets erected. |
| 2 | " | " | " | " | " | wire | the | fence, | wherever | they |
| | | | | | | | | | | find the front apron. |
| 2 | " | " | " | " | " | wire | the | rear | apron, | wherever |
| | | | | | | | | | | they find the fence wired. |

2 men spares.

Total party - 12 men, under an N.C.O.

Wiring men can carry until sufficient pickets are ready. At the conclusion of first night's work there would be, in addition to completed obstacle, a certain amount without rear apron, a certain amount with front apron only, some screw pickets erected without any wire, and finally some distributed but not screwed in.

- (b). It is not necessary to introduce further varieties of obstacle.
- (c). It is considered that in such a publication as S S 177, stress should be laid on the following points :-

- (1). The improvement of obstacles after erection by the addition of loose spiral wires etc. There is a tendency to consider the apron fence as the ideal finished obstacle.
- (2). The use of timber, bushes, hedges, etc., on which to string wire. It is not unusual to see an apron fence erected parallel to and 5 yards away from a row of trees.
- (3). The necessity for wiring ditches, hedges, banks, old trenches etc., cutting the line approximately at right angles. This is very frequently neglected.
- (4). The advantage of carefully preparing material beforehand - knocking the sheet-iron cross piece off the end of the coil of wire, binding the running end of the wire with rag so that it can easily be found in the dark, provision of suitable sticks for running out, etc.

(d). In the standard double apron fence, the posts can be up to 5 yards apart - 3 yards is about the best spacing, also, there should be three pickets at each end of the 50-yd. strip, instead of bringing so many wires into one picket as shown.

(e). I suggest that the last part of para. 40, dealing with "treating wire like a rope" should be omitted as an insult to the intelligence.

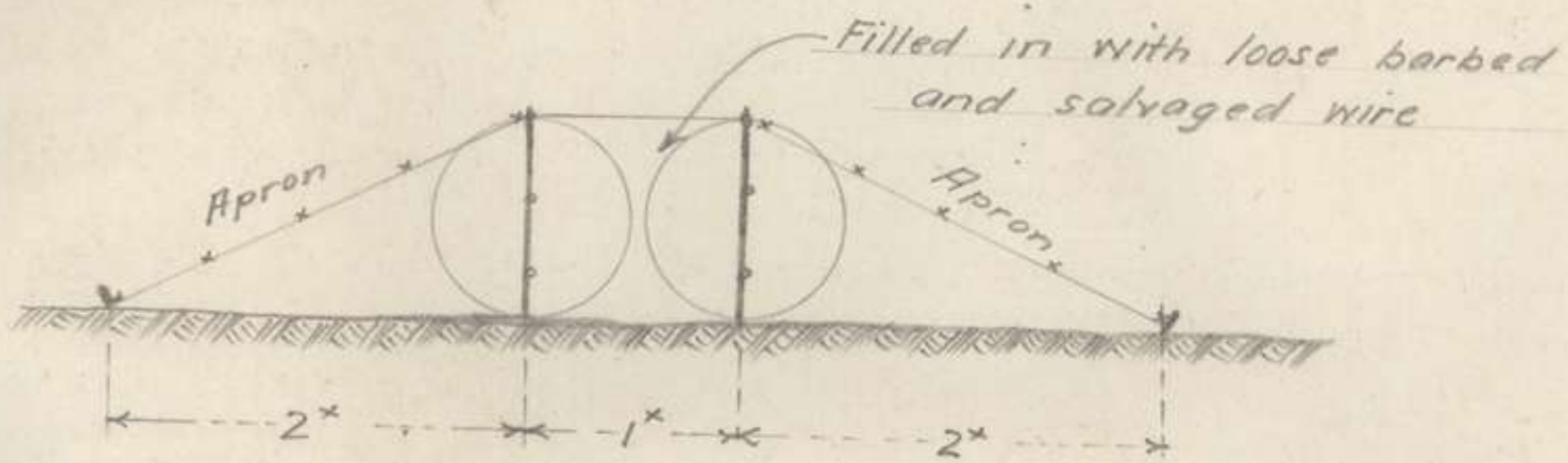
2. It should also be emphasised that in most cases, the Officer or N.C.O's in charge will have to organize a drill on the spot to suit the numbers of men available for work, and the amount of stores on the ground, and also, he should be able to quickly design an entanglement out of the stores available.



Appendix 1 17

2.

The following entanglement has been used very extensively when French Wire was available in addition to barbed. -



Sgt D. Bachold

Lieut-Colonel.
C.R.E. Third Australian Division.

THIRD AUSTRALIAN DIVISIONAL ENGINEERS.

Appendix 2(a)



Reference C.R.E. Secret. Plan No. 78.

WORKS REPORT

For week ending 6 a.m. 19.7.18.

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	Location.	Description.	State of completion.	Remarks.
TRENCHES	J.35.b.1.8. to J.35.b.2.6.	80x C.T.	100%	Shewn on attached skeleton tracing
	J.35.b.45.25.to J.35.b.50.35.	170x SUPPORT LINE.	100%	"-
	J.36.c.55.70.to J.35.b.60.20.	795x C.T.	90%	"-
	J.32.c.00.80.to J.32.d.2.3.	375x Trench.	75%	"-
	J.33.c.9.1. to P.3.a.2.5.	500x Reserve Line.	100%	"-
	P.4.b.7.1. to P.4.a.8.4.	560x C.T.	100%	"-
	P.11.a. & c.	Connecting up and deepening posts A.B.1.2.3.4.5.		"-
	P.16.c.5.9.	Posts dug.		"-
	P.16.c.4.7.			
	P.16.c.2.2.			
	P.21.b.80.65.			
	P.15.b.8.5.to P.15.b.9.4.	100x G.T.		Average depth 2'6".
	P.15.b.7.4.to P.16.a.3.7.	350x Support Line.		Shewn on attached skeleton tracing
	P.20.b.7.4.to P.20.b.4.4.	180x C.T.		Average depth 1'
	P.21.a.9.5.to P.16.a.80.20.	1300x Old Front Line - Improvements.		Shewn on att. skeleton tracing
<u>WIRING.</u>	P.8.a 0.2.to P.2.c.5.5.	1400x Standard Double Apron fence erected along front line of 2nd. zone covering 800x front.	100%	Shewn do.
	P.2.c.5.5. to J.32.d.0.0.	500x Strengthening existing wire.	100%	
	P.8.b.7.9. to P.8.b.1.0.	1100x Standard Double Apron fence erected along front line of 2nd. zone.	100%	

APPENDIX 2a

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Location	Description.	State of Completion	Remarks.
P. 4.a.5.5.	Mined dugout Btn. H.Q.	100%	Portion completed shown tinted red on attached sketches.
J.13.c.9.6.	" " Arty. D.O.	100%	
J.19.a.9.8.	" " Arty. D.O.		
I.30.a.7.6.	" " Arty. D.O.		
P. 7.a.20.45.	" " Engineer H.Q.		
P.7.a.10.35.	" " Bde. H.Q.		
O.17.d.55.93.	" " for 34th. Bty. R.F.A.		
P. 7.c.2.7.	" " for R.H.A.		
J.33.c.6.5.	2 S.P. Shelters - Btn. H.Q.	100%	
P. 4.a.5.6.	2 S.P. Shelters - R.A.P.	75%	
J.35.b.45.50.	1 S.P. Shelter - Coy. H.Q.	100%	
J.36.c.6.8.	1 S.P. Shelter - Coy. H.Q. (Forward)	80%	
J.35.d.85.25.	1 S.P. Shelter - Coy. H.Q.	30%	
J.19.c.3.6.	1 S.P. Shelter near Bde. H.Q.	80%	
N. 4.c.8.3.	3 Nissen Huts for Dressing Station.		Excavation complete.
O.18.a.46.20.	6 Cupola Shelters for A.F. Arty.		
J.31.b.4.4.	2 Cupola Shelters for R.H. Arty.		
P.14.a.98.05.	Cupola Shelter: Mess and Cookhouse.	100%	
J.25.b.80.85.	Shelters for Coy. Accomodation	90%	
<u>BRIDGES.</u>			
E. of CORBIE J.34.b.5.1.	Patrol of bridge towpath and tracks		
J.26.c.0.3.	Night pontoon bridge.	-	Erected 9 pm. and dismantled 2 am. daily.
N. 6.d.8.8.	Bridge - repairs.	70%	Bridge hit by shell fire - open for traffic.
J.25.a.6.0.	Pile bridge and road.	-	Reconnaissance made and position and approaches marked.
<u>ROAD MINES & DEMOLITION CHARGES.</u>			
CORBIE, LA NEUV-VILLE and DAOURS	Maintaining and guarding.		
Groups of Bridges			
O.10.d.5.8.	"W" Road Mine) Mines untamped. Charges	100%	
O.10.d.6.8.	"X" " ") withdrawn and returned		
O.11.a.6.1.	"Y" " ") to POULAINVILLE DUMP.		
O.18.b.5.4.	"Z" " ")		
<u>DUMPS.</u>			
O. 6.d.5.8.	Divisional Dump, FOUILLOY 0.10.b.8.8. being maintained. Stores drawn from Corps Dump, VECQUEMONT. Dump of wiring material being formed.		

APPENDIX 2a
19



Location.	Description.	State of completion	Remarks.
H.34.d.3.3. P. 4.a.5.5.	Offices for D.H.Q. Ramp for Horse traffic up steep bank.	100%	
	130 Concertinas made for front line wiring.		
I.28.d.91.	Culvert repaired.	100%	
P. 4.a.8.9.	2 C.I. Cookhouses.	50%	
J.28.c.2.6.	Gas proof doors.	100%	
J.35.b.2.8.	Repairing entrances and erecting gas proof doors.	15%	
J.28.c.7.7.	Gas proof doors.	100%	
I.32.a.1.2.	Water point - Pipes connected throughout - main tank sandbagged, B & D Filler completed. Notice boards erected. Spring fenced in. Road started.		
I.32.a.1.2.	Shelter - Embankment type	60%	
CORBIE.	20 motor lorry loads of machinery and shafting salvaged.		
DAOURS.	Machinery salvage commenced.		
P.9.a.4.4.	Repairs to shelter	100%	
P.8.a.5.5.	Bn. H.Q. Additions to shelter/head cover 5'.	100%	
	8 Artillery notice boards and 15 smaller direction boards prepared.	100%	
DAOURS.	Forestry party sawing timber.		

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20.7.1918.

Lieut-Colonel.
C.R.E. Third Australian Division.

APPENDIX

20
20

THIRD AUSTRALIAN DIVISIONAL ENGINEERS.

WEEKLY WORKS REPORT.

Week ending 26.7.18.

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Reference C.R.E. Secret Plan No. 78.

	Map Location	Description	State of completion	Remarks.
<u>TRENCHES.</u>	P.4.a.85.40. to P.4.a.5.5.	200x New C.T.	100%	Shewn on attached skeleton tracing.
	J.35.b.45.40.to J.35.b.3.5.	60x New C.T.	100%	
	J.35.b.5.3. to J.35.b.6.5.	300x New trench - Support Line.	100%	"
	P.4.b.7.2. to P.4.d.5.4.	550x Support Line - deepening & widening.	100%	"
	P.3.a.45.50.to P.3.a.4.0.	300x Reserve Line - New trench.	100%	"
	P.10.c.50.10.to P.10.c.30.10.	100x New trench.	100%	"
	P.20.b.3.0. to P.15.c.8.5.	Linking up posts.	100%	"
	P.20.b.35.45.to P.20.b.05.48.	200x New C.T.	100%	"
	P.20.b.8.4. to P.21.a.65.20.	600x Deepening & widening.	-	"
	P.16.c.00.75. to P.15.d.0.7.	500x Deepening & widening	-	"
	P.16.b.05.95.to P.16.b.4.8.	200x Deepening and widening	-	"
	P.10.d.5.7. to P.10.d.75.70.	150x Deepening and widening.	-	"
	P.15.c.6.3. to P.21.b.8.9.	800x C.T. Sited and taped.	-	"
	J.32.d.1.2.to J.32.d.9.8.	550x New Trench.	100%	"
	<u>WIRING.</u>	J.33.d.0.0 to P.3.a.6.0.	800x Double apron fence along RESERVE LINE	100%
P.15.d.3.6.to P.15.d.50.65.		100x Double apron fence along HUN WALK.	100%	"
P.14.a.4.6.to P.20.c.4.8.		7100x Double apron fence along RESERVE LINE (BORONIA LINE)	100%	"

APPENDIX 2

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Map Location.	Description.	State of Completion.	Remarks.
P.8.a.0.2.to P.13.d.3.4.	3270x Double apron fence along Intermediate Line and Zone.	100%	Shewn on attached skeleton tracing.
J.33.a.0.0.to P.2.c.5.6.	2600x Double apron fence along Intermediate Line.	100%	"
<u>ACCOMOD- ATION.</u>	Mined dugout for Btn. H.Q.		Portion completed shewn tinted red on attached sketches.
P.4.a.5.5.	" " " Engr. H.Q.		"
P.7.a.20.45.	" " " Bde. H.Q.		Work commenced.
P.7.a.10.35.	" " " Coy. H.Q.		Portion completed shewn tinted red on attached sketches.
P.10.d.75.80.	" " " Btn. H.Q.		"
O.18.b.0.9.	" " " Arty.		"
O.17.d.55.93.	" " " Arty.		"
P.7.c.2.7.	" " " Arty.		"
J.26.b.1.2.	" " " Arty.		"
I.24.d.0.6.	" " " Arty.		"
J.26.d.0.6.	" " " Arty.		"
J.27.c.2.8.	" " " Arty.		"
P.14.b.15.20.	T.M.H.Q. Dugout.		Work commenced.
P.4.a.5.6.	2 S.P. Shelters for R.A.P.	100%	
J.36.c.6.8.	S.P. Shelter for Coy. H.Q.	100%	
	S.P. " " Sigs.	85%	
J.35.d.85.25.	S.P. " " Coy. H.Q.	100%	
N.4.c.8.3.	6 Huts. (MAIN DRESSING STATION)		Excavation completed. Erection commenced.
H.34.d.3.3.	2 New Huts.	100%	
J.35.d.85.25.	2 S.P. Shelters for Sigs.	100%-30%	
J.35.b.45.35.	S.P. Shelter.	35%	
P.8.a.5.5.	S.P. Shelter for R.A.P.	100%	
P.14.c.7.8.	Excavated S.P. Dugout under ledge (16'x 9')	100%	
O.18.a.46.20.	2 large Shelters.	100%	Excavation completed and framework started.
	1 large Shelter.	-	
O.17.b.9.7.	4 Cupola Shelters.	100%	
O.12.d.75.00.	2 Cupola shelters.	100%	Excavation completed.
	1 " "	-	
J.31.b.4.4.	2 " "	100%	
	1 " "	-	
J.33.d.0.7.	Dugout at Adv. B.H.Q.	100%	Excavation completed.

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APPENDIX 2(b)

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Appendix 26

3.



Map Location	Description.	State of Completion	Remarks.
	CORBIE, LA NEUVILLE & DAOURS Groups & BONNAY 1 & 2 Bridges maintained and guarded.		
0.5.c.4.4.	CORBIE 4 - 2 new tunnels in central pier for charges.	100%	
	New magazine for CORBIE Nos. 2 and 4 Bridges.	100%	
	New magazines for CORBIE Nos. 6,7,7x Bridges.	100%	
<u>ROADS. & TRACKS.</u>			
P.20.a.6.5.to X Roads P.13.c.5.6 to 0.12.b.9.2.	Repairs - filling in shell holes and draining.	-	
J.25.a.6.0.	Corduroy road on S. Bank.- 250x Foemation complete. 50x Corduroyed.	-	
	CORBIE-SAILLY LE SEC Road - patrol and maintenance.	-	
<u>BRIDGES.</u>			
E.of CORBIE to J.34.b.5.1. J.26.c.0.3.	Patrol of bridges, towpath and tracks		
	Night pontoon bridge.	-	Erected 9 pm. and dismantled 3 a.m. daily.
J.25.a.6.0. N. 6.d.8.8. I.33.c.6.1.	Pile bridge. Repairs to DAOURS 13 Bridge. LA NEUVILLE No.1. Repairs to brick parapet on abutment.	100% 50%	Shore trestle for S. bank complete.
<u>DUMPS.</u>			
	Divisional dump FOUILLOY 0.10.b.8.8. being maintained. Stores drawn from Corps Dump, VECQUEMONT.		
P.20.a.85.65. P.15.c. 1. 8.	Two dumps established containing wire material.		
<u>GENERAL.</u>			
H;34;d:3:3. J.28.c.7.7. N. 4.c.8.3. Main	Offices for B.H.Q. Fixing floor and shelving - R.A.P. Dressing Station - Drainage of site, forming and grading road.	- 80% -	

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APPENDIX 26
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4.

Appendix 2(b)

Map Location	Description.	State of Completion	Remarks.
J.35.b.2.8.	Repairing entrances and erecting gasproof doors.	100%	
J.28.c.7.9.	Repairing pump and surface drained at well	100%	
J.28.c.7.9.	Erecting Field Kitchens.	100%	
P.4.a.8.9.	2 C.I. Cookhouses.	100%	
I.30.b.3.5.	Erecting stretcher racks.	5%	
P.21.b.1.1.	Making old enemy dugout secure.	100%	
P.7.a.10.35.	Bomb store, rear Bde. H.Q.	100%	
P.13.c.8.6.	Notice Boards for Trenches being prepared Cross Roads avoiding track, 240x long. marked out for Ambulance Wheel stretchers.	100%	
CORBIE.	Salvaging R.E. Material. 35 lorry loads of machinery and shafting.		
DAOURS.	Special salvage work.		
I.32.a.1.2.	Water point job.		All work complete with exception of matalling road and track and standing at horse trough.
I.32.a.1.2.	Special shelter.	100%	
	12 mobile charges for pontoon bridges.	100%	
J.26.d.4.4.	6 cellars gas proofed.	100%	
BOIS 1'ABBE.	84 pit props cut.		

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27.7.18.

*Sgt H. Backwood*Lieut-Colonel.
C.R.E. Third Australian Division.

APPENDIX A

25-

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Appendix 3(a) 27
COPY NO. //

THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

9th. July 1918.

ENGINEER INSTRUCTION NO. 15.

1.- The Third Australian Division (less Artillery) will relieve the Fourth Australian Division (less Artillery) in "B" Divisional Area on nights 11th/12th. and 12th/13th. July, 1918.

2.- Field Companies and Pioneer Battalion, 3rd. Australian Division will relieve Field Companies and Pioneer Battalion, 4th. Australian Division as under :-

Unit.	Relieve.	Area	Headquarters	Remarks
9th. Fld. Co.	13th. Fld. Co.	Line Left	J.19.c.5.6.	Relief to
10th. Fld. Co.	4th. Fld. Co.	Line Right	O.3.a.central.	be completed
11th. Fld. Co.	12th. Fld. Co.	Reserve.	O.3.a.central.	by 2 p.m.
3rd. Pioneer Battalion.	4th. Pioneer Battalion.	-	O.3.a.central.	12th. inst.

3.- Units will mutually arrange between themselves as far as it is possible for the continuity of work during relief.

4.- Subject to the terms of this order all other details will be arranged direct between units.

5.- Units will advise C.R.E. directly reliefs are completed giving location of Unit H.Q.

6.- C.R.E.'s Headquarters will close at GOISY at 10 a.m. 13th. inst. and open at BUSBY at same hour.

7.- ACKNOWLEDGE (Field Companies and Pioneers only).

Henry Back told

Lieut-Colonel.
C.R.E. Third Australian Division.

(See over for distribution)



THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

Appendix 3(b)

ENGINEER INSTRUCTION NO. 16.

28th. July, 1918.

9th. Field Co.
10th. do.
11th. do.

Explosives to be carried in Tool Carts.

	A	B	C
	Double Tool Cart	Pack Animal.	Wagon lim- bered G.S.
Guncotton primers	80	20	80
Guncotton, slabs.	56	28	98
Fuse, safety, No. 9 fms.	48	8	--
Detonators, No. 8.	75	25	--
Detonators, No. 13.	50	--	--

If the amounts shown in column 'B' are not carried on the pack animal, they are to be included in 'A'.

Explosives carried in the toolcart are only to be taken out for inspection or use.

Sp. *D. Bachold*

Lieut-Colonel.
C.R.E. Third Australian Division.

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THIRD AUSTRALIAN DIVISIONAL ENGINEERS.

ENGINEER INSTRUCTION NO. 17.

29.7.18.

Appendix 3(c)

1. The III Corps is relieving the Australian Corps in the Sector north of the Somme on the nights July 30th/31st. and July 31st/August 1st.
2. After relief, the Northern Boundary of Australian Corps and "B" Division will run as follows:-
H.22.b.1.7.- H.24.a.9.8.- I.26.b.3.0.- J.25.a.0.0. thence Eastwards along the Northern Bank of the SOMME CANAL.
3. The 80th. Field Co. R.E. will take over from the 9th. Field Co. A.E. all work north of the SOMME CANAL.
4. The 11th. Field Co. AE. will hand over to the Engineers of the 18th. Div. the guarding of bridges BONNAY 1 and 2 I.29.a.9.0. and I.29.a.3.5. respectively.
5. Above reliefs to be complete by 10 a.m. 1st. August. 1918.
6. 9th. Field Co. A.E. will remain in present camp until more suitable accommodation is available.
7. The inter brigade boundary will be amended to run as follows:-
Junction of Roads at O.11.a.6.2.- O.12.c.0.0.-O.12.d.7.0.-O.12.b.6.3.-
P.2.c.8.3.-P.8.central.-P.16.b.4.8.
8. 9th. and 10th. Field Coys. will arrange mutually to adjust their work to conform to this.
9. Acknowledge (Field Coys. only)

sd/H. BACHTOLD. Lieut-Col.
C.R.E. 3rd. Aust. Division.

P.T.D.

DISTRIBUTION.

- 1. "G". 3rd. Aust. Division.
- 2. C.E. Australian Corps.
- 3. C.R.E. 18th. Division.
- 4. 9th. Field Co. A.E.
- 5. 10th. " " "
- 6. 11th. " " "
- 7. 3rd. Aust. Pioneer Bn.
- 8. 9th. Aust. Inf. Bde.
- 9. 10th. " " "
- 10. 11th. " " "
- 11. Spare.
- 12-14. War Diary.

Herewith estimated total list of parties required for work in the area.

Schedule No.	Approx. strength.			WORK WITH	ON	REMARKS
	O	NGO	OB			
4	1	3	63	1st. Aust. Tunn Coy.	Mined Dugouts	Rationed and quartered by 1st. Aust. Tunn Coy. in forward area. Already asked for
5	2	6	137	-do-	do-	Rationed and quartered by 1st. Aust. Tunn Coy. in forward area. Not yet asked for
6	-	-	50	11th. Field Coy.	Guarding Bridges	Rationed and quartered by 11th. Field Coy Already asked for.
7	3	6	150	9th. Field Coy	Reserve Line	Not yet asked for
8	3	6	150	10th. Field Coy	Reserve Line	Not yet asked for
9		2	20	11th. Field Coy.	New bridge J.25.a.6.0.	Not yet asked for
TOTAL	9	23	570			

Sydney H. Bachiler

Lieut. Col
C.R.E. 3rd. Aust. Div.



THIRD AUSTRALIAN DIVISIONAL
ENGINEERS.

Appendix APPENDIX 5

9th. Field Co.
10th. do.
11th. do.
3rd. Pioneer Battalion.

19th. July, 1918.

C.R.E. WORKS MEMO. NO. 13 -

The following report will in future accompany the "WEEKLY WORKS REPORT" --

"R.E. STORES USED ON WORKS FOR WEEK ENDING 6 a.m. / / ."

	Drawn from Divisional Dumps.	Salved by Unit and used on works.	Drawn from Salvage Dumps.
Wire, barb, coils.			
" netting, rolls.			
" French, bundles.			
" Concertina, coils.			
Pickets, screw, long.			
" " medium.			
" " short.			
Pickets, wood, long.			
" " short.			
Pickets, angle iron,			
" " long.			
" " short.			
Sandbags.			
Pitprops.			
Mining sets 6'			
" " 5'			
Timber sawn, cub.ft.			
Timber, forest, "			
Girders.			
Girder shoes.			
Corrugated iron, shts.			
Curved iron shelters,			
shts.			
Expanded Metal, shts.			
Walthoid, rolls.			
Hessian, rolls.			
Gas cloth, sq. yds.			
Nails, cwts.			
Bolts, dogs, cwts.			
Duckboards, 18"			
" " 3'			
Road metal, tons.			
Brushwood hurdles.			
Fascines.			
Camouflage, various,			
sq. yds.			
Tapes, tracing, yds.			
Notice Boards. No.			

Sgt H Bachold

Lieut-Colonel.
C.R.E. 3rd. Australian Division.

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APPENDIX 6 34

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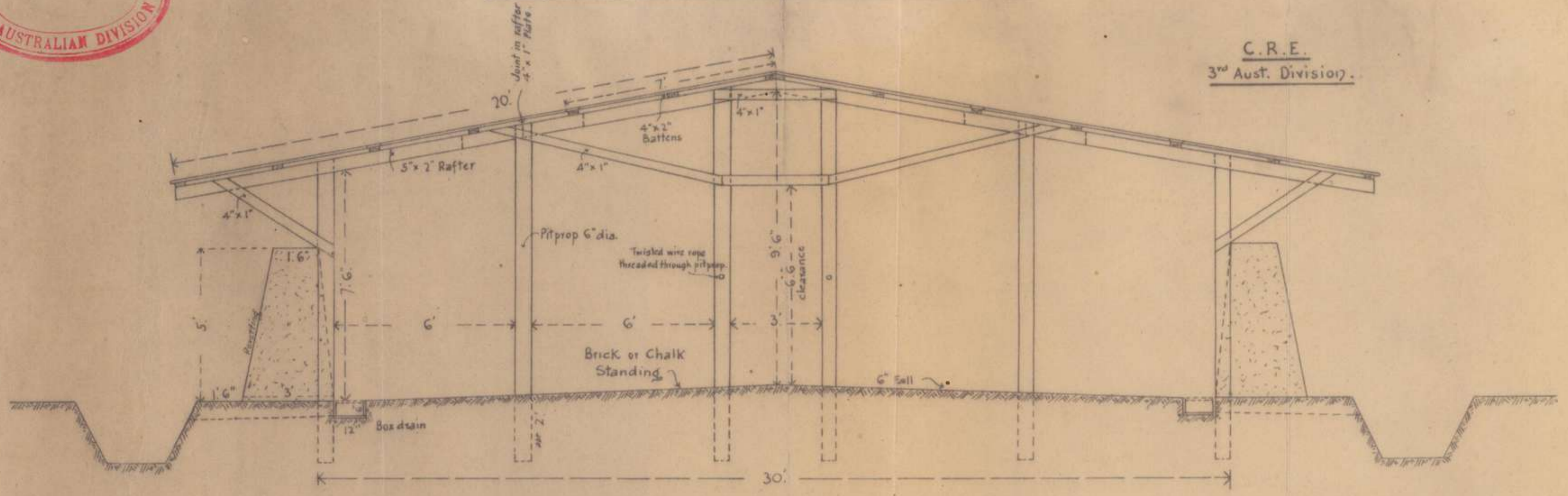


Appendix 6

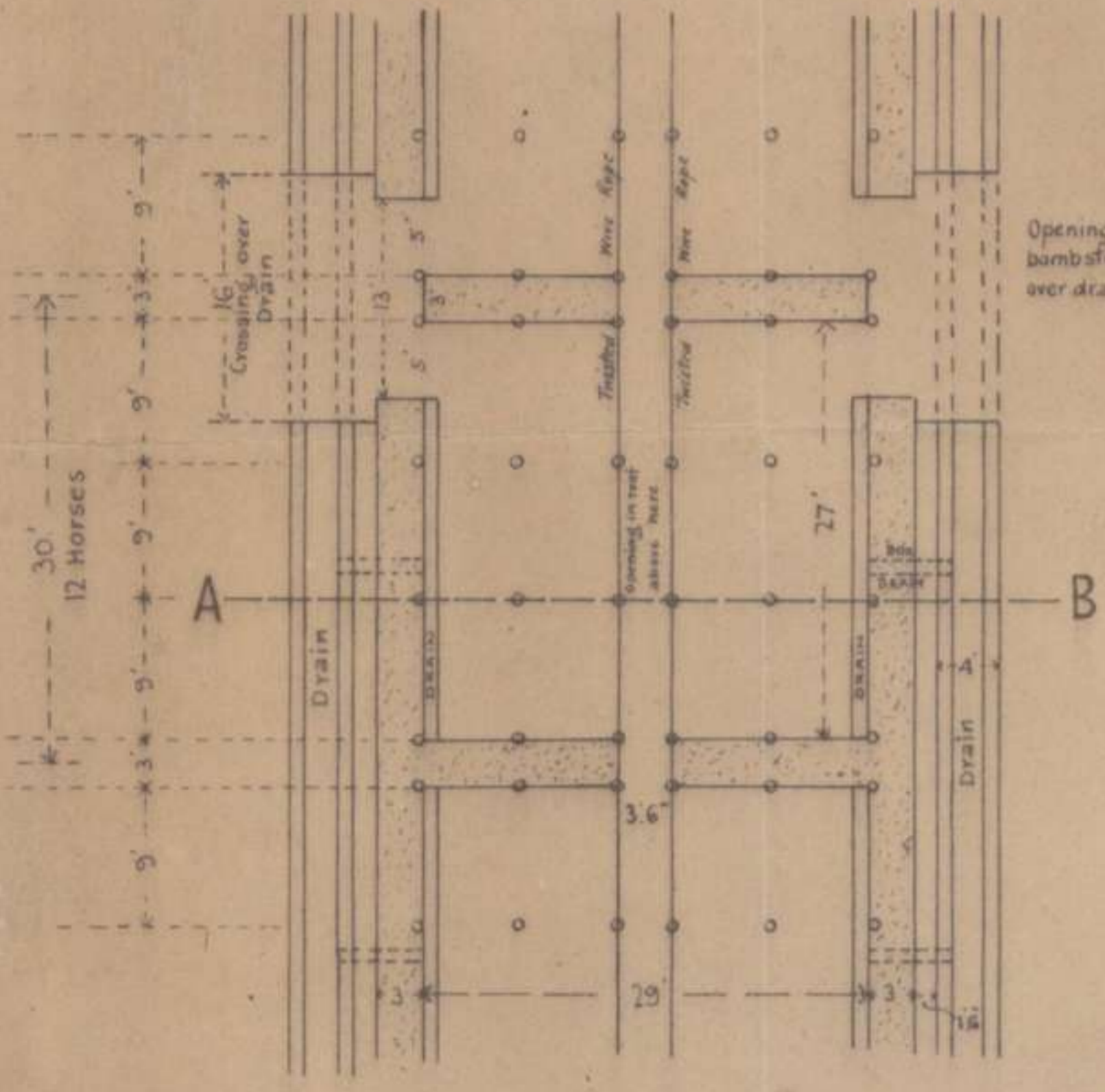
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PROPOSED STANDARD STABLES

C.R.E.
3rd Aust. Division.



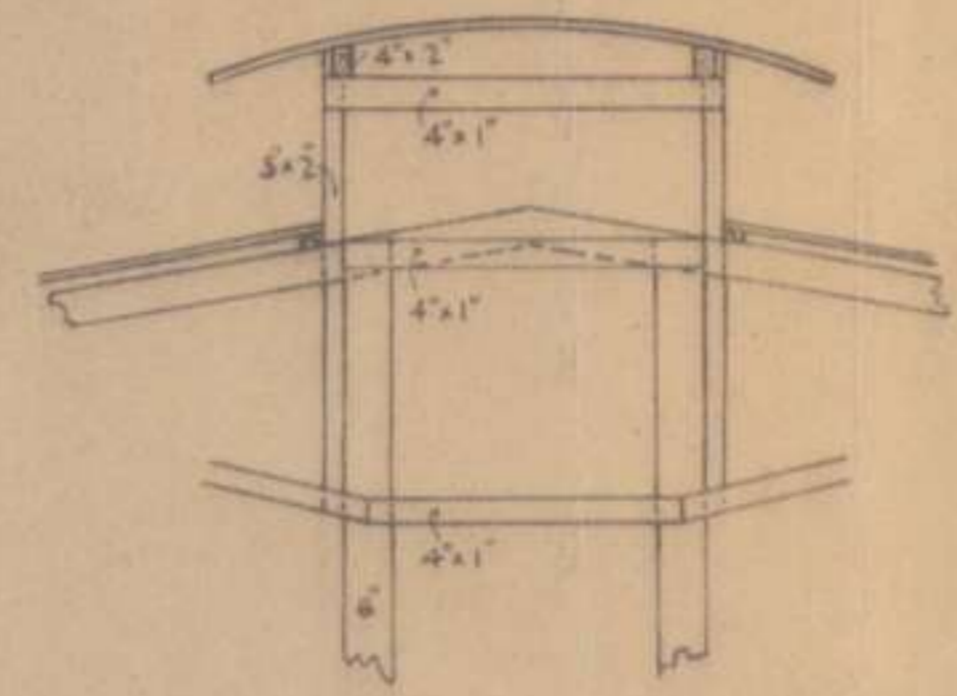
SECTION A B Scale 1" = 4 feet.



PLAN Scale 1" = 16 feet.

Opening in longitudinal bamslop and crossing over drain every 60 ft.

SECTION OF VENTILATOR
12' long, above 9' opening in roof every 60'.



QUANTITIES		
for 12 horses per 30 feet running of stabling		
Roofing	Corr. Iron 7' x 2' 3"	90 sheets
	or malthoid & wire netting, or other covering material.	150 sq yards
Pitprops	6" dia. x 10'	8 Pitprops
"	6" dia. x 11'	8 "
"	6" dia. x 12'	8 "
Rafters	{ 5' x 2' x 12'	8 Rafters
	{ 5' x 2' x 9'	8 Rafters
Battens	4' x 2' x 10'	46 Battens
Bracing	4' x 1"	200' "
Box drain	6' x 1"	150' "
Wire Rope	Twisted out of plain wire	60' "
Nails	5"	45 lbs
Nails	3"	25 lbs
Nails	roofing	16 lbs

Quantities for ventilator: - 4' x 1" - 10' running, 4' x 2" - 25' running
Corr. Iron 7' x 2' 3" curved to 10' radius - 6 sheets 5' x 2" - 20' running
Materials for flooring, retetting & bridging, drain are not included.

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THIRD AUSTRALIAN DIVISIONAL ENGINEERS.

31st. July, 1918.

RECONNAISSANCE REPORT.

Double line Railway from A to W as per attached sketch.

- A-B bank 650x long, average height 8 ft. Line slightly damaged by shell fire. Formation good, one large shell hole left side of bank to be filled. Left line can be repaired with 6 rails, 8 sleepers. Right Line, 4 rails, 7 sleepers.
- B. Stone arch bridge over water course in good order.
- B-C. 230x line slightly damaged, formation good. Left line can be repaired with 6 rails 4 sleepers, Right line 2 rails, 5 sleepers.
- C. Level crossing.
- C-D. 380x cutting, depth 14 ft. on right side formation good, dugouts built on right side and line covered with spoil in places. Left line can be repaired with 2 sleepers, right line 3 rails and 16 sleepers.
- D-E. 210x bank average height 3 ft. formation good. Right line slightly damaged, can be repaired with 1 rail, 3 sleepers.
- E-F. 500x, Rails, slightly damaged, formation good, old gun positions on right side, rails covered with spoil in places. Left line can be repaired with 4 rails, 14 sleepers, Right line, 5 rails, 11 sleepers.
- F-G. 540x cutting up to 20' deep. Right line, slightly damaged, can be repaired with 2 rails, 3 sleepers.
- G. Road bridge over railway.
- G-H¹. 300x cutting 20 feet deep, formation good, rails slightly damaged, Left line can be repaired with 4 rails, 2 sleepers, Right line, 1 rail, 2 sleepers.
- H-I. 240x line and formation in good condition.
- I-J. 410x bank 20ft high in centre on left side. Left line in good order. Right line, slightly damaged, can be repaired with 4 rails, 4 sleepers.
- J-K. 540x bank 12ft. high on left side, formation good. Left line can be repaired with 6 rails, 8 sleepers, Right line, 1 rail, 3 sleepers.
- K-L. 420x bank 20ft. high, formation fair, bank subsided 15 inches for 30x in one place. Left rail slightly damaged, can be repaired with 2 rails, 3 sleepers, Right line 2 rails, 2 sleepers.
- L-M. 660x formation good. Two tank traps on formation. Right line can be repaired with 1 rail, 1 sleeper.
- M. Level Crossing, HEILLY Station.
- M-N. 630x formation good. Rails slightly damaged. Left line can be repaired with 2 rails 3 sleepers, Right line 4 rails, 3 sleepers.
- N-O. 840x cutting 18 ft. deep at centre. Formation good. Rails slightly damaged. Left line can be repaired with 1 rail, 2 sleepers. Right line, 1 rail, 2 sleepers.
- O-P. 530x bank average height 8ft. Rails cut, Left line can be repaired with 2 rails, 3 sleepers. Right line, 7 rails, 8 sleepers.

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210x bank 8ft. high. Rails and formation badly cut by shell
 Left line can be repaired with 12 rails, 14 sleepers.
 Right line, 21 rails, 39 sleepers.

- R. Level crossing.
- S-T. 800x bank 8 ft. high over swamp. Formation fair. Rails damaged. Left line can be repaired with 10 rails, 7 sleepers. Right line 10 rails, 8 sleepers. There is a cross over near T, both crossings destroyed; they appear to be 1 in 11, one leads to siding 1 in 9 crossing destroyed.
- T. Level crossing.
- T-U 650x line through station yard, formation in good order. Left line can be repaired with 9 rails, 4 crossings 1 in 12, 6 sleepers. Right line, 6 rails, 2 crossings, 5 sleepers.
- U. Bridge over ANCRE in good order.
- U-V. 900x of bank average 10ft. high over swamp. Rails damaged. Left line can be repaired with 9 rails, 12 sleepers. Right line, 9 rails, 8 sleepers.
- V. Level crossing.
- V-W. 840x bank, 10ft. high over swamp. Formation and rails slightly damaged. Left line can be repaired with 21 rails, 25 sleepers. Right line, 11 rails, 20 sleepers.
- W. Level crossing BUIRE.

On Right line rail length 39'5" - Left line between A and E, rail length 39'5", from E to K 59'1", K to W 39'5" lengths.
 Grades were not taken. Line rises from A to H, level from H to J, and falls to M, and then practically level.
 Railway up to CORBIE Station is being repaired by the 263rd. Railway Coy.. single line is now complete to CORBIE.

Mohr
 Lieut.
 3rd. Aust. Divisional Engineers.

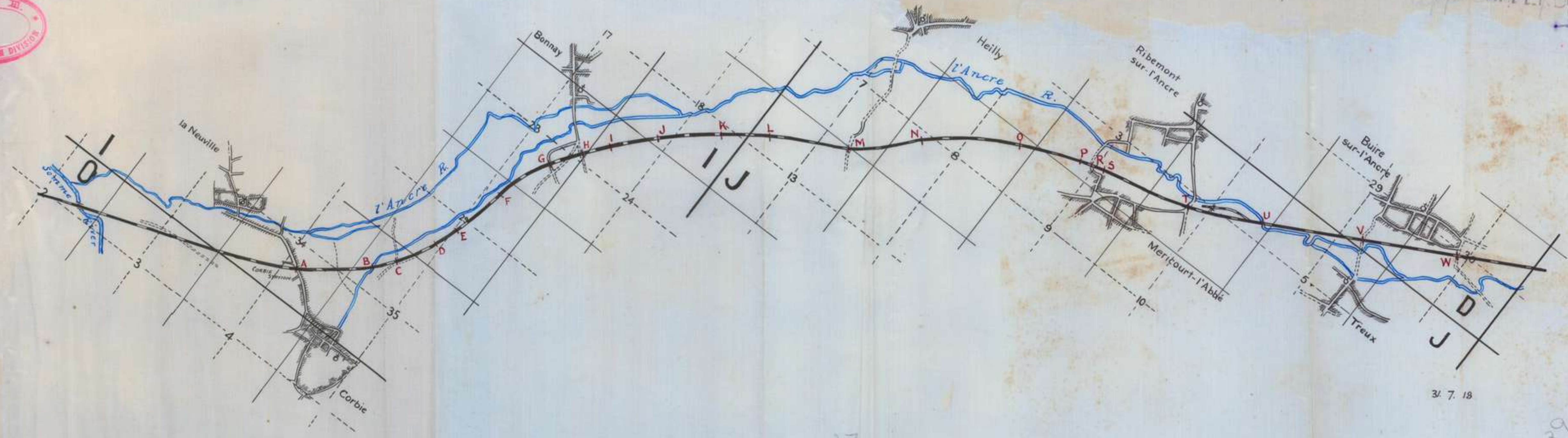
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APPENDIX 7 37.



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APPENDIX 7 34



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31. 7. 18

APPENDIX 7 37

