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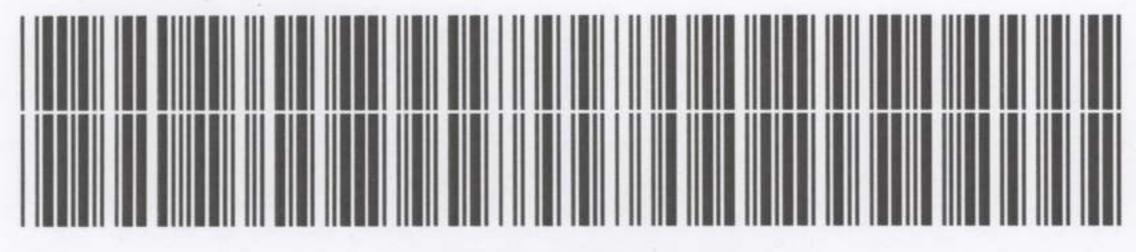
Australian Imperial Force unit war diaries, 1914-18 War

Engineers

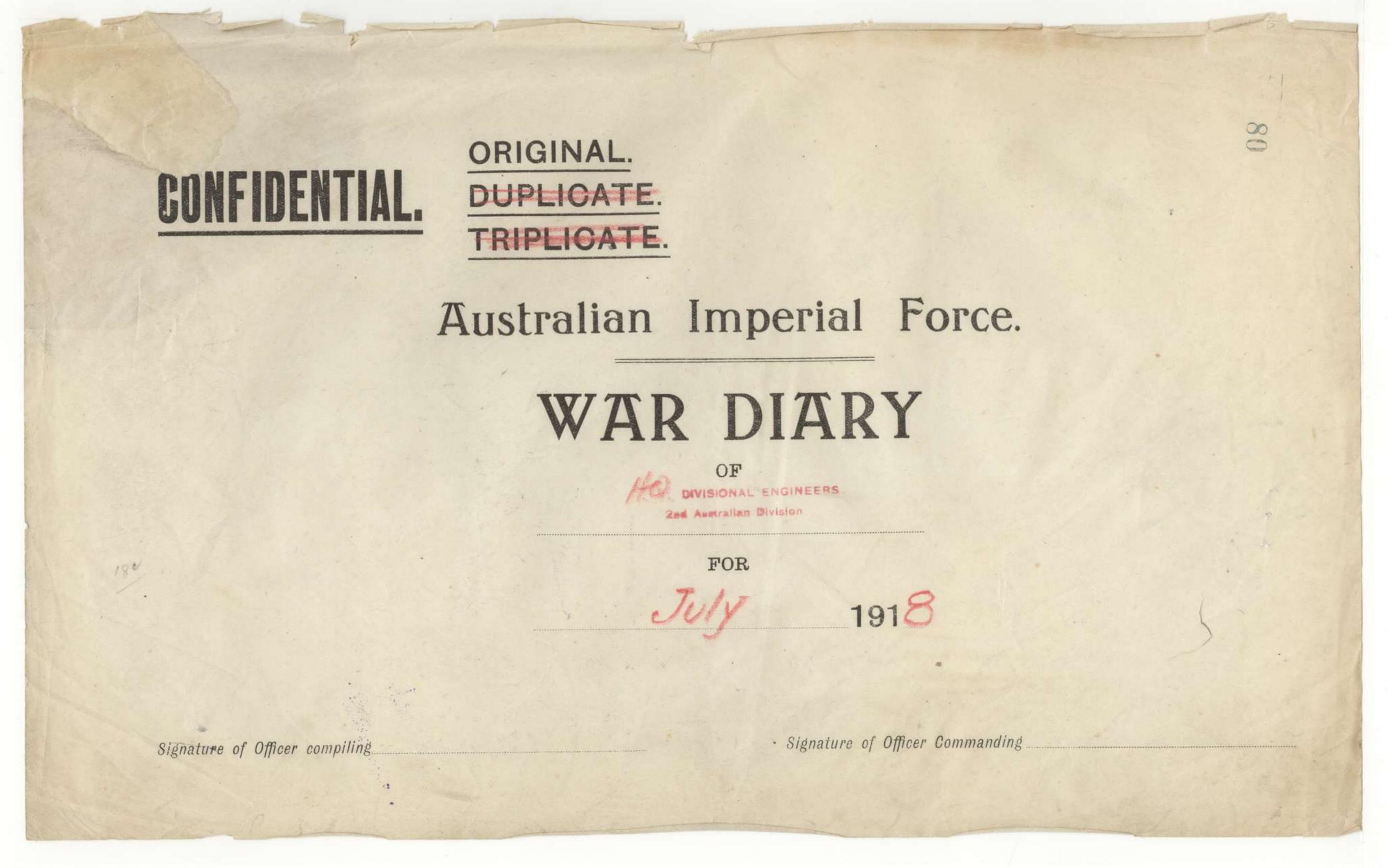
Item number: 14/8/22 Part 1

Title: Headquarters 2nd Australian Divisional Engineers

July 1918



AWM4-14/8/22PART1



Sheet 1.

WAR DIARY

Headquarters, Divisional Engineers, Army Form C. 2118.

or

respectively. Title pages

INTELLIGENCE SUMMARY.

(Erase heading not required.)

July 1918.

SECOND AUSTRALIAN DIVISION.

anuscript. Remarks and references to Summary of Events and Information Place-Appendices 00 Fine hot day. With Major Harris rode over to see C.R.E. 4th Aust. Div. regarding forthcoming GLISY. lst operation, as 6th Field Company will be co-operating with 6th A.I.Bde. under orders of 4th Aust. Div. Nothing very elaborate arranged, and sapper work will consist principally of marking jumping-off lines. No strong points are being dug. Brigades are to dig one C.T. and Pioneers will do another; details of latter have not yet been fixed up. Notification received in evening that Major Harris had been awarded the D.S.O. Fine hot day. Went out early and picked up Col. Annand near his camp and went forward to the 2nd several jobs that Pioneers are working on, dugouts for the most part. Also called at 7th Field Coy. H.Q. in Railway cutting at 0.25.d.2.7.; visited A.D.S. in railway arch at 0.27.d.7.8. where girders were reported to be showing deflection, and found that they had been effectively strutted by Pioneers. M.G. dugout nearby in railway embankment, under construction by Pioneers, has been giving trouble owing to losse ground. Camouflage of spoil excavated from dugouts has not been well done in many cases, frequently no attempt has been made to conceal it at all. 2nd/Lt. Eltis reported for duty, just arrived from Cadet school. Visited Pioneers' Sawmill, in afternoon, just started on the bank of the Somme. Portable engine was salvaged from Treux. Nothing of importance to record. Attack by 4th Aust. Div. takes place at 3 a.m. tomorrow. 3rd Fine day. Attack early this morning by 4th Aust. Div., assisted on our front by 6th A.I.Bde., 4th was successful; all objectives including Hamel were gained. 7th A.I.Bde. also captured a post and got 90 prisoners. Total prisoners for the operation well over a thousand and 80 M.Gs. Some American infantry took part in the attack, on the 4th Div. front, the first occasion on which American troops have taken an active part with British troops. A high velocity gun has been shelling around Blangy Tronville today about noon; several casualties amongst Pioneers who were camped near there. 6th Field Coy. also have some men billeted in the village. Papers give particulars of the I have given instructions for them to be billeted alsewhere. number of American troops that have been transported to Europe to date, month by month. The monthly rate has increased very rapidly since March and the total for last month reached 275,000; there are, it is said, over a million Americans in France now. From appearances they look like first class material but will need experience. They are, however, fresh and have very fine spirit. Influenza is still very prevalent. Fine day but slightly overcast. Pioneers had 3 killed and 18 wounded on their C.T. job, but 5th they successfully completed the work. 5th Bde. will relieve the 6th Bde. tomorrow night. 5th and 6th Field Coys. did not completely change over for the attack, so 5th Coy. will go in again with their Brigade. (A7092). Wt W12839/M1293 75 .0 0. 1/17. D. D. & L., Ltd. Forms/C.2118/14.

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WAR DIARY Headquarters Divisional Engineers, Army Form C. 2118.

INTELLIGENCE SUMMARY.

Second Australian Division.

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
lisy.	5th		Lt Fidler,7th Field Coy has been brought in to this office for the purpose of devoting special attention to following up all matters regarding deep dugouts. There are so many, that it is almost impossible to keep full and accurate details without it being some one person's special job.	
	6th		Fine day, hazy. 6th Bde. pushed posts out some distance futher forward last night. Went out with Major Webb to front of his sector; rode up by bycycle to within couple of hundred yards of front line. It is possible to take transport up to quite close to front line in daylight without coming under observation. Visited some of the Company H.Q. dugouts also newly dug flank trench connecting to French C.T., also visited dugouts side of Villers-Brettonneux (No 105) under construction by Pioneers. Called at 26th and 25th Batt H.Q. in Quarry dugout (No 15), and several other dugouts on way back.	
	7th		Fine day. Moved our office to new quarters little further down line of shelters. Previous quarters being taken over by Div Signal Coy. These quarters are not as large but will be more convenient as mess will be close to the office.	
	8th		Went out at 6a.m. in car, picked up Major King and Lt Bartell, 2nd Pioneer Batt. on main road, thence to Batt H.Q. near Villers-Bretonneux. Visited two dugouts (No 104 & 105) under construction by Pioneers; both going on steadily, excavation in earth with bottom in chalk, good footing for pitprops. Also visited 20th Batt H.Q. in dugout No 69. Fine warm day. Notification that Lt Cartwright 7th Field Coy promoted to Captain. Lt Bell 4th Division also promoted Captain and posted to this Division, making a fourth Captain. Establishment of Captains for	
	9th		Divisional Engineers is four when the Adjutant is a Captain, and three otherwise. This appears to have been overlooked by the D.A.G. so that there is actually a spare Captain. Cartwright has been posted to the 6th Field Coy and Bell attached as supernumerary to the 7th Field Coy. Warm. Overcast in morning, light rain in afternoon. Situation on this front has not yet settled down. Enemy after being driven out from front line do not appear to have settled down on any definite line of resistance close to the line of our last advance. Our troops have been pushing	
	10th		forward bit by bit, feeling their way. 7th Bde report today that their patrols are in Monument Wood. Large number of applications for new dugouts are coming in, in consequence of alteration in position of front line. It is not much use starting until line settles down. Instructions received this morning that 500 Pioneers were to dig C.T. for 7th Bde tonight. No	
			location or length stated. Saw G.O.C. and explained that Pioneers had already gone out to work and that it would be necessary to recall them in order to get them together for this job, and that I would like, if possible, to have better notice in future and to get particulars of the work to be done so there shall be no confusion or waste of men. Went up to 7th Bde H.Q. with Col. Annand and saw General Wisdom, who explained that work was conditional on the success of an attempt to occupy some ground north of Monument Wood tonight.	k
			(A7092). Wt W12839/M1293. 75 ,0 0. 1/17, D. D. & L., Ltd. Forms/C.2118/14.	

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Sheet 3.

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WAR DIARY

Headquarters Divisional Engineers Army Form C. 2118.

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

07 INTELLIGENCE SUMMARY.

2nd Australian Division.

Place	Date	Hour	Summary of Events and Information	Remarks an references t Appendices
Glisy	lOth		Communication trench will be about 700 yds long, point to point, just north of railway and parallel to it, 50 yds distant, forward of Villers-Bretonneux; it is also to serve as flank fire trench to South. If ground north of railway is not gained and C.T. is not required, the party is to be diverted to dig for extension of the buried cable. The provision of this party compells the suspension of all other work on hand and will cause the loss of greater part of three day's work. Have arranged with Pioneers to keep 150 men or there abouts available for digging on the next few nights. Capt Bell reported today, and is returning tomorrow to take up duties with 7th Field Coy, horselines.	
	llth		Fine day with occasional showers. Last night's attempt to advance was not successful as a good deal of opposition was met and the advance was not pressed. Pioneers were standing by until about la.m. before it was definitely known that they would not be able to get on with C.T., and it was then considered too late to go on with cable burying. A good deal of useful work has thus been lost but it is one of those interruptions that cause waste of time which cannot be avoided. Visited F Coy 108 Regt.U.S. Engineers in evening - Capt Harris O.C.	
	12th		Showery day. Visited some dugouts with Lt Fidler, also 7th Field Coy horselines and 6th Field Coy Bivouacs. French made an attack early this morning south of us and captured the village of Castel overlooking the Avre. With Lt Harris had dinner with R Coy. 108 Engineers, (U.S.) Fine day, bit dull. Nothing much of importance.	
	14th		Went out with Major Embleton, D.A.D.M.S. at 6 a.m. Went up left sector to inspect sites for proposed R.A.P. dugouts, also inspected proposed sites for Bn. H.Qrs of left Brigade. G.O.C., however, does not approve of these locations as they are too far apart as he wishes both Bn. Hdgrs. to be together.	
	15th		Fine day. Hot and close. Visited 172 Tunnelling Coy. H.Q. and discussed plan for double Bde and Artillery Group H.Q. which is proposed to be constructed near 028c8.5. just west of Villers-Bretonneux. Preliminary survey and plans being prepared by 7th Field Coy. G.O.C. is anxious to get this completed before we go out of the line, also a double Batt H.Q. for each Bde sector. Sites and plans for latter have not yet been fixed up. Proposed to put Tunnelling Coy on to double Bde H.Q. and Pioneers on to Batt H.Q. About 2000 Americans are to be attached to this Division in about 2 day's time for training, and they will afford very useful relief in the shape of making more labour available.	
			Enemy commenced a fresh great offensive on a front of 85 Kms from Auvilly, 10 Kms S.W. of Rheims to Chateau Thierry and from six miles S of Rheims to Mossiges. Rheims thus not directly attacked The Marne has been crossed in one place but the position is reported generally satisfactory. It is well to be cautious in accepting first reports but a serious failure by the enemy on such a big scale will be sure to have a great effect on further operations. The French appear to have learned the locality and time of the attack so were probably more or less prepared.	

Sheet 4.

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WAR DIARY Headquarters Divisional Engineers

Army Form C. 2118.

2nd Australian Division. INTELLIGENCE SUMMARY.

Place Date	Hour	Summary of Events and Information	Remarks and references to Appendices
lisy 15t	h h	No news what British troops are engaged but heard that XXII Orps went down there a few day's ago. On this front efforts are still being made to keep on edging forward by so called "peaceful penetrations". Monument Wood, which proved such an obstacle when Villers-Bretonneux was taken, has been penetrated and is now in our hands. Division has laid down the line to which it is desired to reach and remain on and on which policy of deep dugouts can be prepared. Conference of C.R.E's held at C.E's office today. No very vital questions raised, C.E. proposed a scheme of attaching N.G.O's from Field Coys to Searchlight Anti Aircraft Sections; support rather luke warm. He also wanted us to select and prepare sites for Field Coy horselines suitable for Winter. Think that it is too early for this as the situation will probably render alterations of dispositions necessary long before Winter. From map in G office enemy appear to have penetrated about \$\frac{1}{2}\$ miles on a 15 mile front between Chateau-Thierry and Rheims. The attack was repulsed near Chateau-Thierry and also along the whole line east of Rheims: elsewhere the penetration has only been moderate and if any further advance can be prevented it would not be serious, and would amount to a German reverse. The Rheims Salbent is however becoming very pronounced and any advance on the front where the line has held will render the position of Rheims very precarious. It Harris went on leave today. Rain fairly heavily during morning, hot and muggy during day. Went out 6-30 a.m. with Lt. Fidler to Bn. H.Q. in quarry near Villers Bretonneux and from there made a fairly extensive tour of dugouts in right bridge sector. 7th Field Coy, have a section camped in shelters in railway outling at 0.34.b.7.S., a place liable to shelling. Heavy gas shelling last night over a considerable portion of the area. Pioneers suffered a good many casualties among working parties, 2 officers and 17 other ranks evacuated and more probably affected. Heavy fighting is still taking place in the	Appendices
		Annand told me that over 50 of his men had been evacuated and about 20 more affected by gas shelling the night before last. News received of a big counter move by the French between a point West of Soissons to Chateau Thierry, thus tending to take the present German attack in right rear. Good progress appears to have been made on the whole front. Letter received through H.Q. from D.A.G., A.I.F. explaining the system of allotting reinforcements to various units.	

Army Form C, 2118.

WAR DIARY

INTELLIGENCE SUMMARY.

and the		nual resp	in F. S. Regs., Part II. pectively. Title pages (Erase heading not required.) INTELLIGENCE SUMMARY. 2nd Australian Division July 1918	00
Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
lisy	18th		Heavy showers during day. Went to Pioneers and 5th Field Coy H.Q ZXX The proposed system of reinforceing Pioneers will I think be fatal to their present degree of usefulness, as it is proposed to send to them all men unfit for Infantry and other arms who are yet not considered so unfit as to necessitate discharge. This policy will very rapidly deteriorate their present standard.	994.14
	19th		Fine day, fairly warm. Visited Pioneers Sawmill in morning, went over approaches to Glisy No2 and Blangy No 8 bridges. In the afternoon visited dugout at main D.S. on Villers-Bretonneux Road, and Transit Dump. G.O.C., General Rosethal, was wounded this morning while taking Brig. Gen. Robertson, new G.O.C. 6th A.I. Bde round the line. He was hit in left arm and wrist by a sniper, seems to have been due to rather careless exposure in a conspicuous position near the front line Brig. Genl. Wisdom, G.O.C. 7th A.I. Bde is taking over command of the division temporarily. Brig. Genl Paton 6th A.I. Bde has left to go back to Australia. 6th Bde are releiving 7th Bde in line tonight and 6th Field Coy took over from 7th Field Coy today. 7th Field Coy had 9 casualties, 8 killed, the day before yesterday in railway cutting near Villers-Bretonneux where the forward section was camped. 172 Tunnelling Coy have started on dugout at same place, and had two	арр. 3.
	20th 21st		casualties there yesterday. Major Harris has decided not to place his forward section there. Fine most of day, heavy shower in afternoon, raining in evening. Went to Vignacourt in afternoon with Major Webb to officers clothing store. Discussed proposed system of reinforcing Pioneers with General Wisdom this morning. Raining early in morning, fine later. French counter offensive has progressed well so far. 400 guns and 20,000 prisoners reported. Advance has nearly reached the line of the SOISSONS - Chateau-Thierry Road, from a few miles south of former place to some distance west of latter. Enemy, who had crossed the Marne between Chateau Thierry and Rheims, have retreated to north bank of river. British and French troops are attacking between Marne and Rheims but do not appear	
	22nd		Fine day. Went out at 6.30 a.m. by car with C.E. to near Villers-Brettoneux. 172 Tunnelling Coy have commenced extension of dugouts at 0.28 c 8.5. to provide accommodation for two Infantry Bde and two Artillery Group H.Q.; we inspected this job. Went out and inspected other dugout works in progress in left sector, calling at 20th Bn H.Q. and also at 18th Bn H.Q There is a large number of dugouts in this area of which the excavation has been completed but which are not bunked or occupied. No attempt has been made by previous Divisions to get these properly scheduled so it is a fairly complicated business and requires the attention of one officer entirely for the present. Lt Fidler is looking after this.	
	1 1		(A7092). Wt. W12839/M1293. 75 ,o.o. 1/17. D. D. & L., Ltd. Forms/C.2118/14.	

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Sheet 6.

WAR DIARY Headquarters Divisional Engineers, Army Form C. 2118.

INTELLIGENCE SUMMARY.



Will be Place	Date Date	Summary of Events and Information [Erase heading not required.] July 1918.	Remarks a references
lisy	23rd 24th 25th	Showery all day. Heavy bombardment in morning just south of us. The French Corps on our right made an attack and advanced about 2,000 yards on a 6,000 yards front between Mailly and Aubuillers, and captured about 1,200 prisoners. Heavy enemy gas bombardment on forward area last night; about 400 evacuated today. Villers Bretonneux very heavily gassed. 6th Field Co forward section, located in 0.76.b. all affected, including Lt. Sexton and 2% others. They hav all been evacuated. Lt. Engel and 2/Lt. Eltis who have been temporarily attached to the Pioneers are returning to duty with their companies. I have been detailed to attend school for Infantry Commanding Officers, from Aug. 11th to 18th, to be held at a place near Le Treport; one C.R.E. from each Corps in the 4th Army is being detailed to attend. Very little news from South; French advance appears to have practically come to a standstill. Efforts made from Rheims side seem to have made little impression, and enemy still holds bulk of the ground he gained on that side in his last attack, and Rheims is therefore still at the head of a dangerous salient. There is still talk of a projected enemy attack in the Ypres-Kemmel-Arras area. Pioneers had 15 gas causalties evacuated. Fine day. Visited 7th Field Coy H.Q. near Blangy-Tronville where they are mostly quartered in shelters dug into the bank. Also visited their transport lines on the north side of the Somme. The French have made further advance south of the Ouroq and have pushed the enemy furth from Chateau-Thierry and that part of the Marne. No change between the Marne and Rheims. Fine day. Heavy shower about midday. Called at Pioneer H.Q. and went into the question of the number of men turned out for work. Their ration strength is about 800 and only about 230 have been turning out, which does not appear to be a fair proportion. Capt Pattfann, Adjutant, went into the matter with me, and after allowing for all Batt and Coy H.Q. details, specialists, daily sick, cooks, gas guards etc only 265, including officer	er references Appendic
	27th	Frequent heavy showers all day. 2/Lt R.H.M.Eltis was killed last night. Have not had full particulars yet but believe he was shot in mistake by one of our own sentries while out in from of our lines with a small working party. Went out early this morning with Lt Davies round right sector and visited a number of dugouts in progress. [A7092] Wt. W12539/M1293. 75 10 0. 1/17. D.D. & L., Ltd. Forms/C.2118/14.	t **

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Sheet 7.

WAR DIARY

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Headquarters Divisional Engineers

Army Form C. 2118.

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.

INTELLIGENCE SUMMARY.

2nd Australian Division.

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(Erase heading not required.)

July 1918

Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Glisy	28th	MW OX	Fine day but overcast. Visited 172 Tunnelling Coy with Lt Fidler to try and square up several matters regarding dugouts. Two American Batts, are now attached to the Division and went into the line last night for the first time. They are 1st and 2nd Battns of 129 Regt and are to do a period of 6 wks training with the Division in the line, 1st fortnight by platoons attached to Aust Coys, then as Coys attached to Aust Battns and later as complete Battns to a Bde. The final training is for the Regt to take over and hold a Bde front. A platoon of 129 Regt H.Q. Coy is being attached to the Pioneers for training. 5th Division are making an attack tonight to capture enemy trench system about 500 yds in advance of present position. Apperas to me to be a very futile policy to keep on going forward 500 to 1,000 yds at a time, and having to reorganisd in mew trenches, new dugouts and new everything and lose men as well. News from south indicates that enemy have withdrawn in the Rheims-Soissons Salient. The net result of the big attack which started on the 15th. may thus be regarded as a disastrous failure. The enemy still have large reserves in hand ready for immediate action, over 30 Divisions, I think, mostly in Prince Rupprecht's group of armies in the north so an attack there is still a possibility. The Labour position in England is very disturbed and a big strike has commenced among the munition workers. The Prime Minister has announced that exemptions granted to men of military age for munition work will be withdrawn as from tomorrow, for any who are not at work then.	e
	20th		Fine day, sultry and overcast. Visited Pioneers sawmill also plank road approach to Glisy No 2 bridge. Went out in afternoon and inspected site suggested by C.E. for advanced Corps Dump. R.E on broad guage railway about a mile forward from here. The site is in cutting and I do not think it would be very suitable. III Corps will take from 5th Division and part of 3rd Divl. front on July 31st/August 1st Aust Corps northern boundary will then be the river Somme. There is to be a rearrangement of Tunnelling Coys and 172 Tunnelling Coy will be withdrawn on completion of jobs on hand. Do not yet know who will replace them. 5th Aust Div made an attack last night about 12.30 a.m. and all objectives were gained. They advanced about 500 yds	.)
	30th.		on a 4000 yd front. No news from south today. C.E.called in morning with Col.Allen, 108 Regt U.S. Engineers; the latter is coming tomorrow to stay a few days to study our methods. Lt D.B. Corfe reported today with orders to make a reconnaissance of railway from Glisy through Villers-Bretonneux as far forward as possible. Am going out with him in the morning and will pick up Major Harris at his H.Q.	
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WAR DIARY

Sheet No 8.

Army Form C. 2118.

Summ	ries are con	ntained i	aries and Intelligence aries and Intelligence in F. S. Regs., Part II. ectively. Title pages INTELLIGENCE SUMMARY. Headquarters Divisional Engineers 2nd Australian Division.	
	prepared			THE SPECIAL PROPERTY COMMANDES AND ADDRESS OF THE PARTY O
Place	Date	Hour	Summary of Events and Information	Remarks and references to Appendices
Glisy	31st.		Went out at 6a.m. by cycle to 6th Field Coy H.Q. with Corfe, picked up Major Harris, walked up along railway line to within about 600yds of front line, then turned into C.T. recently dug by Pioneers, walked up to front line and on to mound by the railway line. The railway, except for usual shell breaks and craters, is not very seriously damaged until the outskirts of Villers-Bretonneux are reached. Two or three dugouts in the embankent in rear of that place will perhaps be rather serious obstacles to rapid repair. From the western outskirts of Villers-Bretonneux forward the line is much broken by shell fire and in a couple of places is blocked by spoil from dugouts made in side of cutting. It will be possible to get single track past these blocks without an excessive amount of labour. Large numbers of rails are broken and the replacement of these or rather the getting of others on to the spot will be one of the chisf difficulties of getting traffic hrough quickly. No clue was given as to the reason for this reconnaissance till tonight, though it was not hard to guess that something was in contemplation. An attack on a large scale is to be made in this locality shortly. III Corps, Australian Corps, Canadian Corps on our right and French Corps are to attack and so far as information is available the objectives are; - 1st; old French line 2000 or 3000 yds in front of our present line and 2nd; old Amiens outer defendes about 5 miles on. 2nd and 3rd.Aust Divs are to capture first objectives for this Corps and 4th and 5th Aust Divs are then to capture second objective. 4th Division are taking over from the French on our right temporarily and then will be relieved by Canadians. 5th and 7th Bdes. are to attack for this Division and as a preliminary measure 6th Bde. are to take over the whole front on 2nd/8rd August. Two Field Coys are to be placed under orders of C.E. and two Coys of our Pioneer Btn. are to be placed at the disposal of 3rd Aust Div.whose Pioneers are being placed under C.E. Do not know when this latter	
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WAR DIARY

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Headquarters Divisional Engineers, Second Australian Division.

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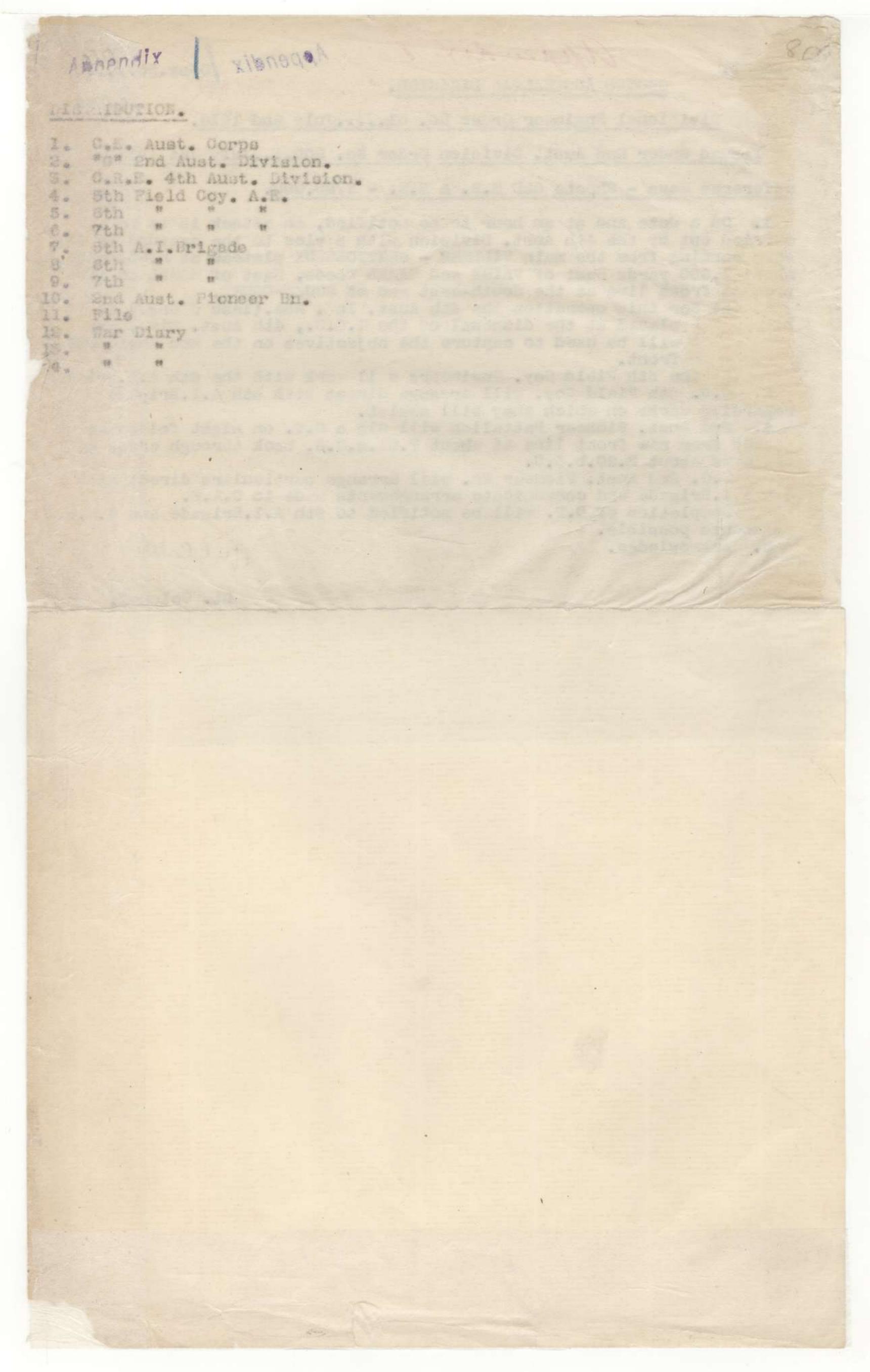
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LIST OF APPENDICES.

	No.	Subject.
1.	3/133	Div. Engr. Order 51. (Operations July 4th).
2.	18/127a	" " 52. (5th Bde. relieving 6th Bde.)
3.	18/130a	" " 53. (6th Bde. relieving 7th Bde.)
4.		Div. C.R.E's. order for operations July 4th) In original connaissance report by Pioneers. only.
5.	6/44	Class of material excavated to be stated in Dugout report. (original only)
6.	19a/215	Unit constructing a dugout to gasproof and bunk it. (original only)
7.	11/108	Lt. Gillespie's invention of improvement of prismatic
8.	24/156	Glisy group - Bridges and road mines. (original only.)
9.	**	Villers Bretonneux group - Bridge and Road mines.
10.	**	Blangy group - Bridge and Road mines. (original only)
11.	"	Sketches of connections of demolitions on new bridges. (original only)
12.	**	Report on preparations for demolition of Nord bridges
13.	29/223	near Glisy and Blangy Tronville. Suggestions regarding systems of wiring. (original & duplicate only)
14.	10/121	File re method of reinforcing units. (original only)
15.		Dugout progress reports and Analyses. (original only)
16.		General works reports for July. (original only)
17.		Sketches of dugouts in Divl. area. (original only)
18.		Dugout Map (3 sheets) shewing positions of dugouts in Divl. area. (original only).
18a.		Schedule of dugouts to accompany map.

Appendix Copy. No. 1.4. alekendix 1 SECOND AUSTRALIAN DIVISION. Divisional Engineer Order Eo. 51 July End 1918. Issued under 2nd Aust. Division Order No. 200 ... July 1st 1918. Reference Maps - Sheets 82D 5.W. & S.E. - 1/20,000. 1. On a date and at an hour to be notified, an attack is to be carried cut by the 4th Aust. Division with a view to the capture of the spur running from the main VILLERS - BRETTORBEUX plateau at P.85.central. about 1,000 yards East of VAIRE and HAMEL Boods, East of HAMEL to the present front line at the South-east end of BOUZERCOURT. 2. (a) For this operation the 6th Aust. In . Dde. (less 2 Dns.) is placed at the disposal of the O.O.C., 4th Aust. Div., and will be used to capture the objectives on the 2nd Aust. Div. front. (b) The 6th Field Coy. Engineers will work with the 6th A.I. Brigade 3. O.C. 6th Field Coy. will arrange direct with 6th A.I. Brigade regarding works on which they will assist. 4. End Aust. Pioneer Battalion will dig a C.T. on night following attack from new front line at about P.Bl.a.S.B. back through crest of ridge to about P.20.b.5.0. C.O. 2nd Aust. Pioneer Br. will arrange particulars direct with sch A.I. Brigade and communicate arrangements made to C.R.E. Completion of C.T. will be notified to 6th A.I.Brigade and C.R.E. as sconse possible. Queletete 5. Acknowledge. Lt. Colonel. C.R.B. Second Australian Division. DISTRIBUTION. Over leaf. AUSTRALIAN WAR MEMORIAL RCDIG1006322



SECOND AUSTRALIAN DIVISION. SECRET. Divisional Engineer Order No. 52....6th July 1918. 18/127a. Issued under 2nd Aust. Division Order No. 201...5th July 1918. Reference Maps - Sheets C2D S.W. & S.E. - 1/20,000. The 5th A.I.Bde. will relieve the 6th A.I.Bde. in the left. brigade subsector of "A" Divisional front on the night 6th/7th July,1918. 2. At the same time the inter-brigade boundary will be altered to run from P.25.d.5.3. along south side of road to cross-roads P.25.c.0.3. to 0.30.b.6.0., thence as before, the 5th A.I.Bde. taking over from the 7th A.I.Bde. this extra portion of the front. 3. The 5th Field Coy. will relieve the 6th Field Coy. on the night 6th/7th July 1918. 4. Details of relief will be arranged direct be tween O.Cs. concerned. Completion of relief to be notified to D.H.H.Q. by wire. Acknowledge. (Field Coys. only). Man Lt. & Adjt., for C.R.E. Second Australian Division. DISTRIBUTION. 58 RCDIG1006322 AUSTRALIAN WAR MEMORIAL

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SECOND AUSTRALIAN DIVISION.

Divisional Engineer Order No. 55 17th July 1918.

Issued under 2nd Aust. Division Order No. 204.... 17 Justalian balls

1. The 6th Aust. Inf. Bde. will relieve the 7th Aust. Inf. Bde. in the Right Brigade sub-sector of "A" Divisional front on the night 19th/20th July 1918.

- 2. The 6th Field Company will relieve the 7th Field Company on night 19th/20th July 1918 under mutual arrangements between O.Cs. Coys. concerned.
- 3. On being relieved the 7th Field Company will take over the duties of the 6th Field Company.
 - 4. Completion of relief to be notified to D.E.H.Q. by wire.
 - 5. Field Coys. to acknowledge.

for C.R.F. Second Australian Division.

DISTRIBUTION.

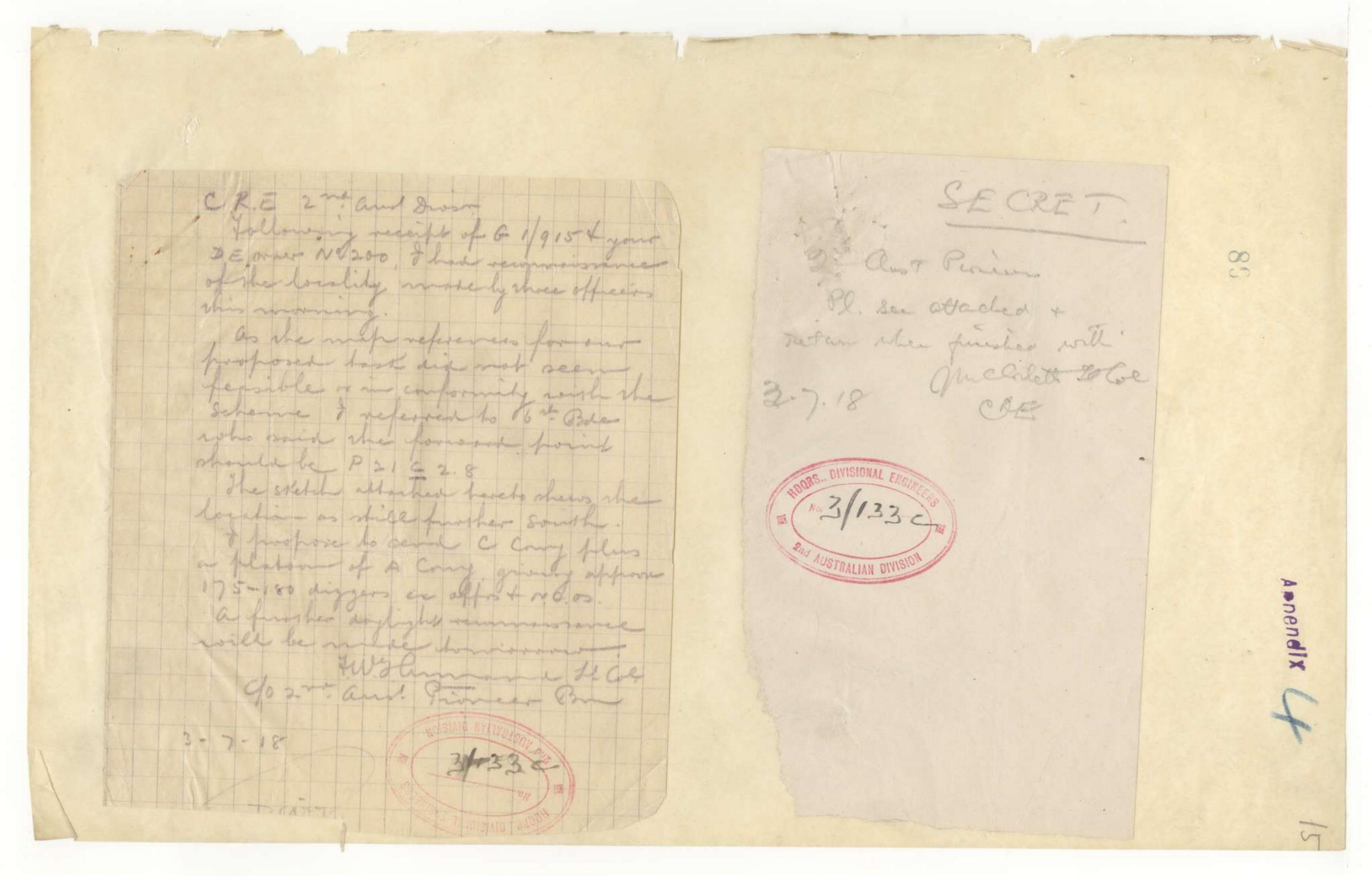
I. 3. 3. 5th 6th & 7th Field Coy.

4. 5. 6th & 7th A.I. Brigade.

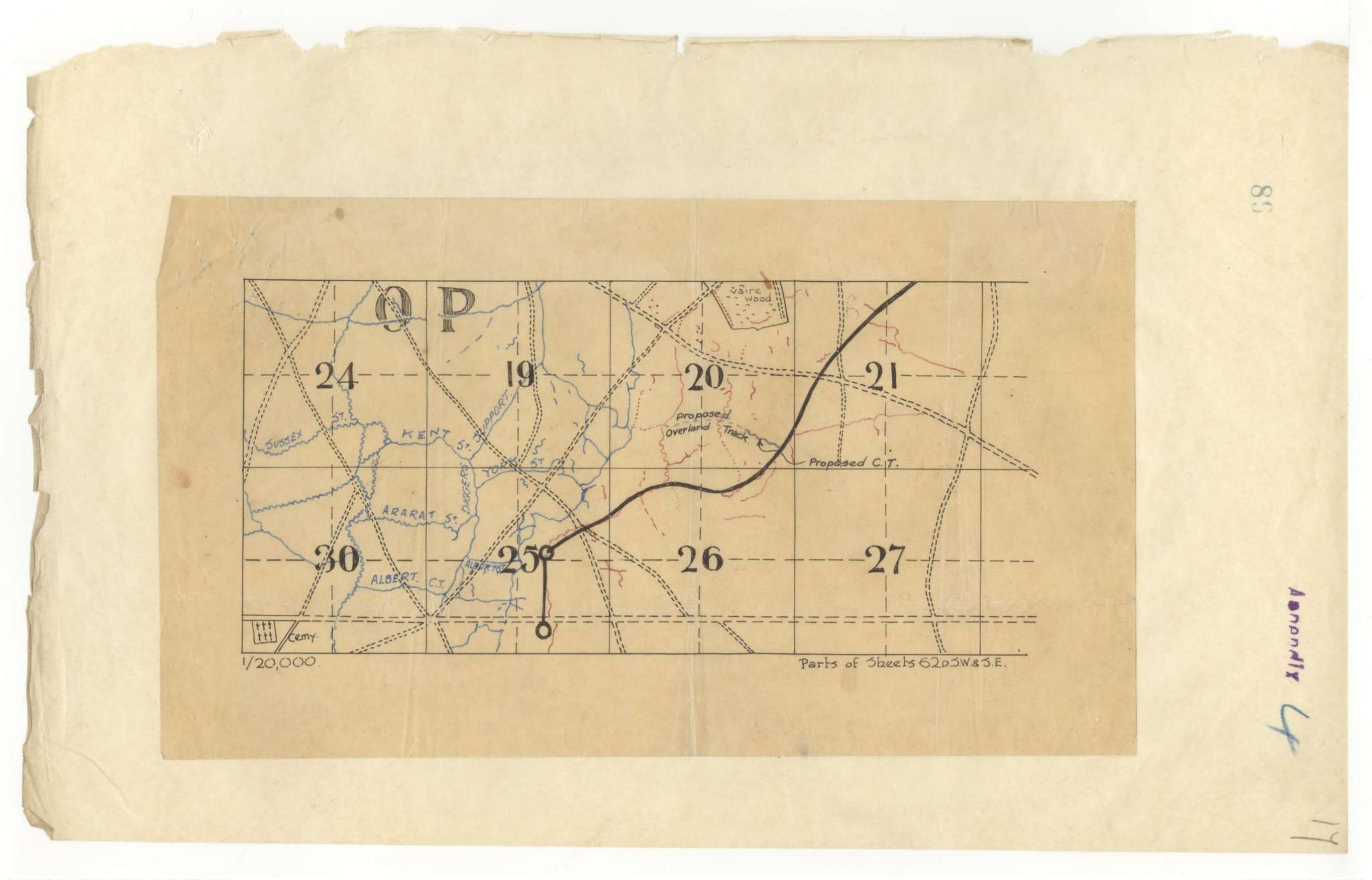
6. "G" 2nd Aust. Division.

7. File

3. 9.10. War Diary.



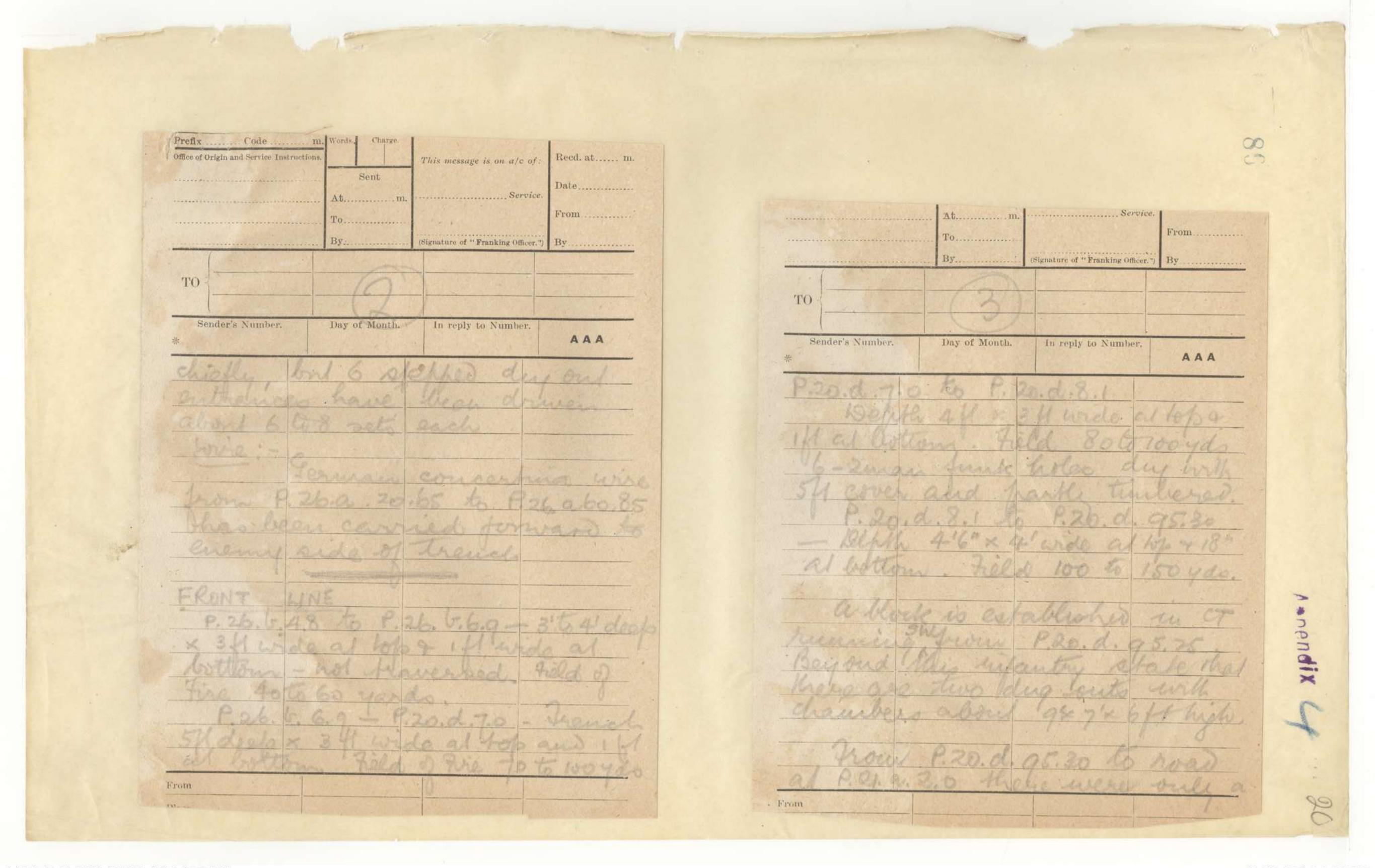
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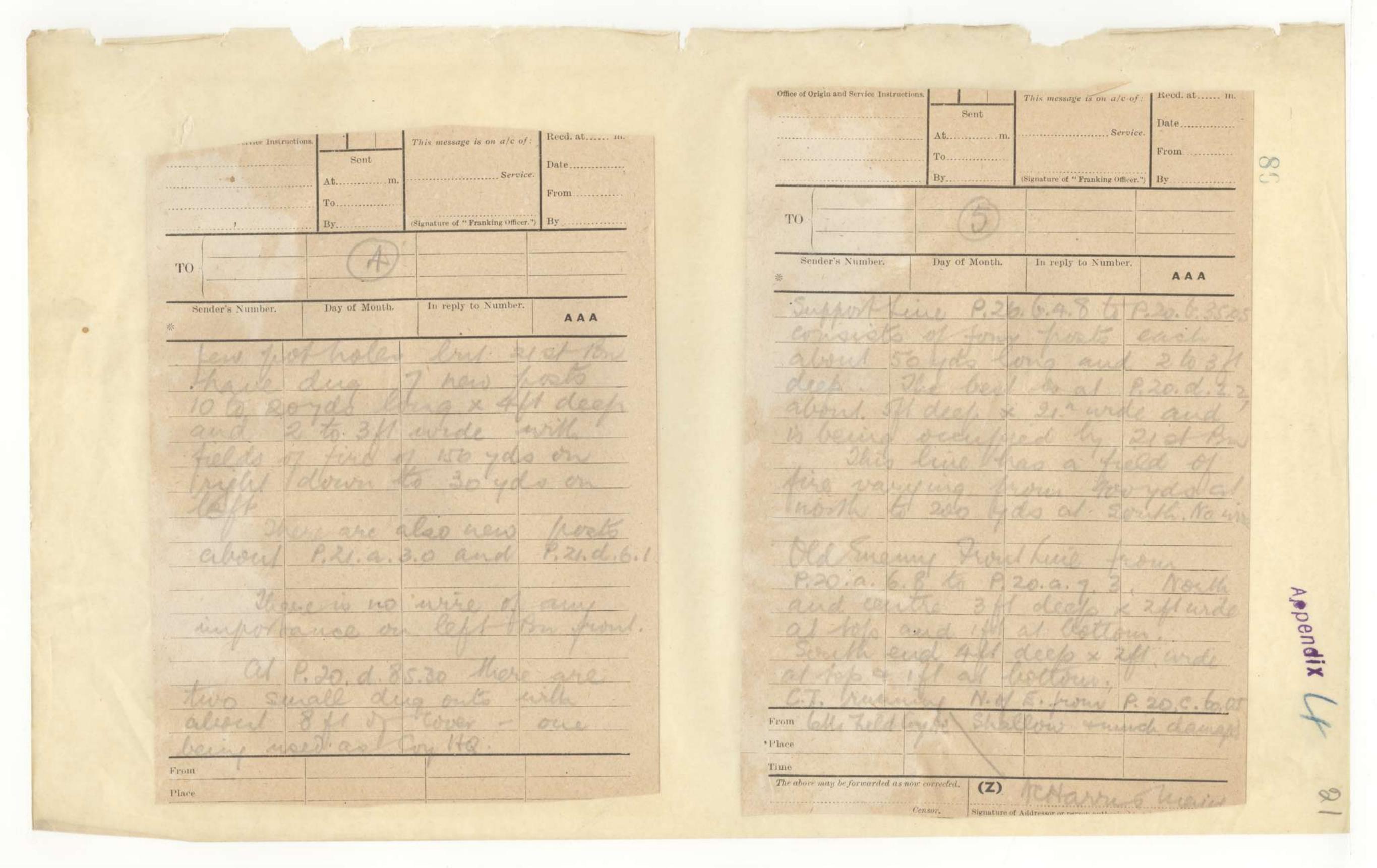


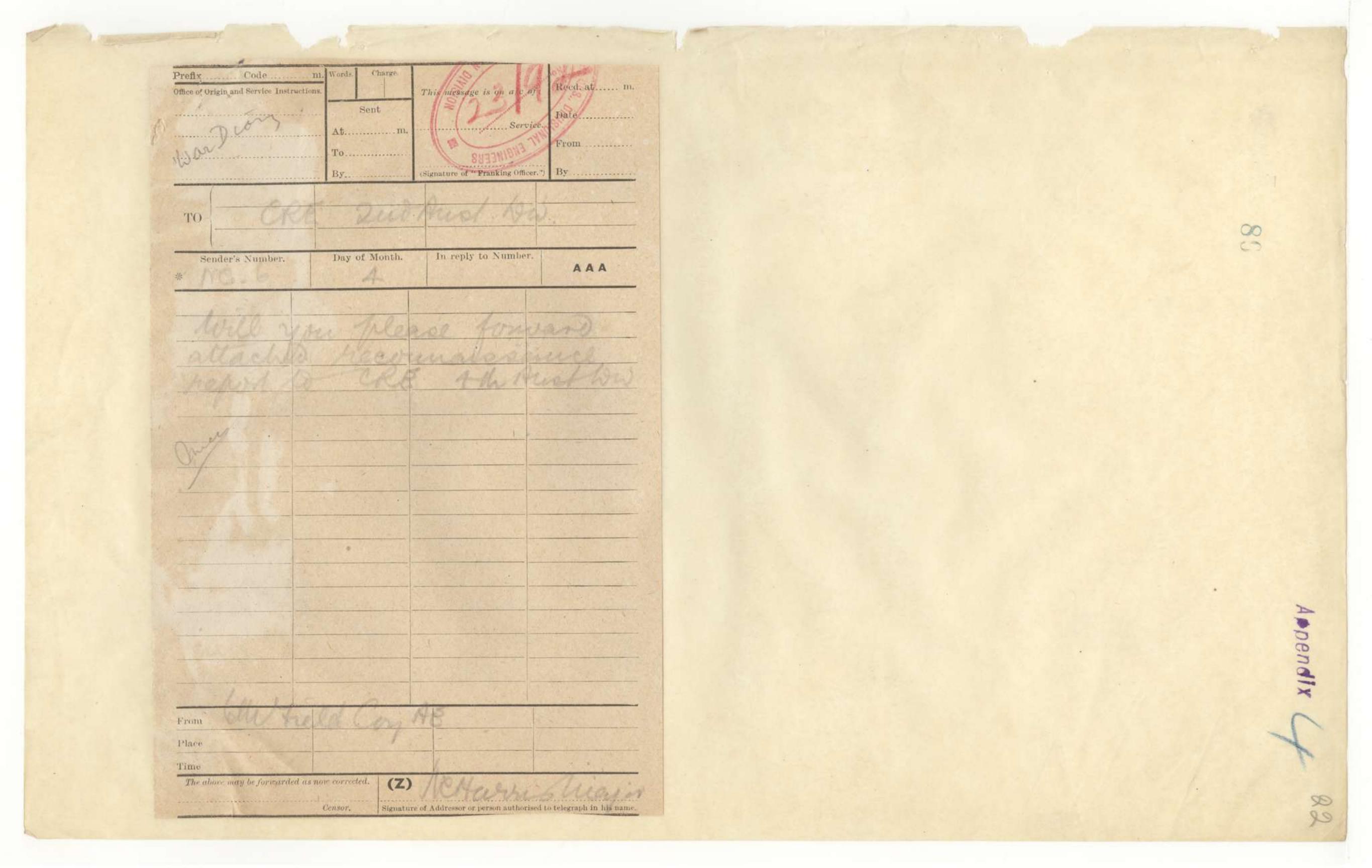
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AUSTRALIAN WAR MEMORIAL







Appendix 5th 6th 7th Field Company A.E. 2nd Aust. Pioneer Bn. The intention of the last column of the weekly dugout report does not seem to be fully understood. The heading of this column should be "remarks affecting progress" and should always indicate the class of material excavated e.g., chalk, earth, and briefly any difficulty e.g., "bad standing ground", "long carry to dump" etc. Amclosteles Lt. Colonel, 18/7/18. C.R.E. Second Australian Division.

85

Marine 6



5th 6th 7th Field Company A.E. 2nd Aust. Pioneer Bn.

when the excavation of a dugout is completed, the unit constructing will was proof and bunk it.

should be then forwarded. Total accommodation provided in bunks should be stated and if office or the other accommodation is provided this should also be noted in order to account for any apparent shortage in the bunking.

Separate arrangements will be made for bunking dugouts constructed by Tunnelling Coy, who will only gas proof, completion

of which should be similarly reported.

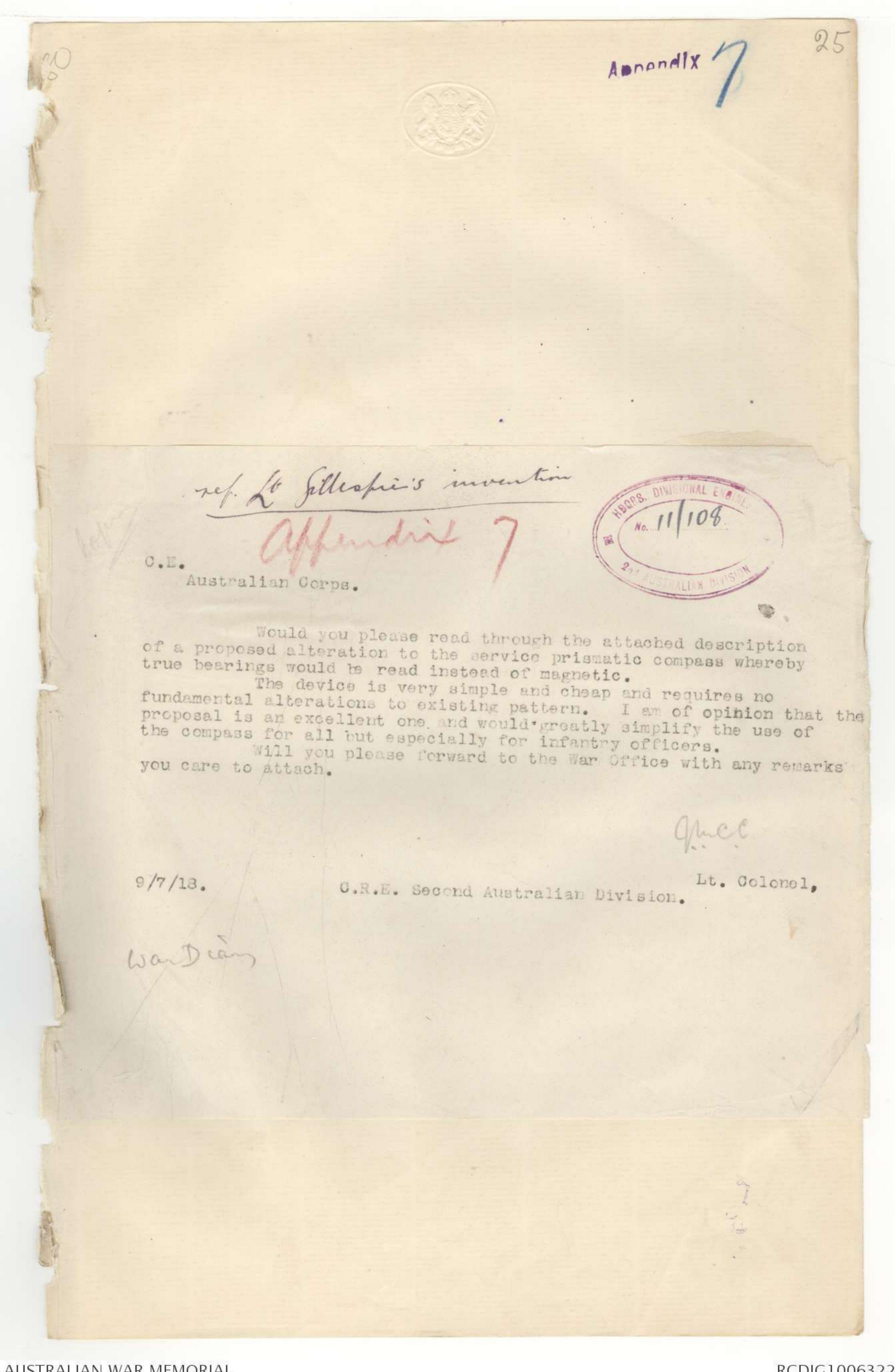
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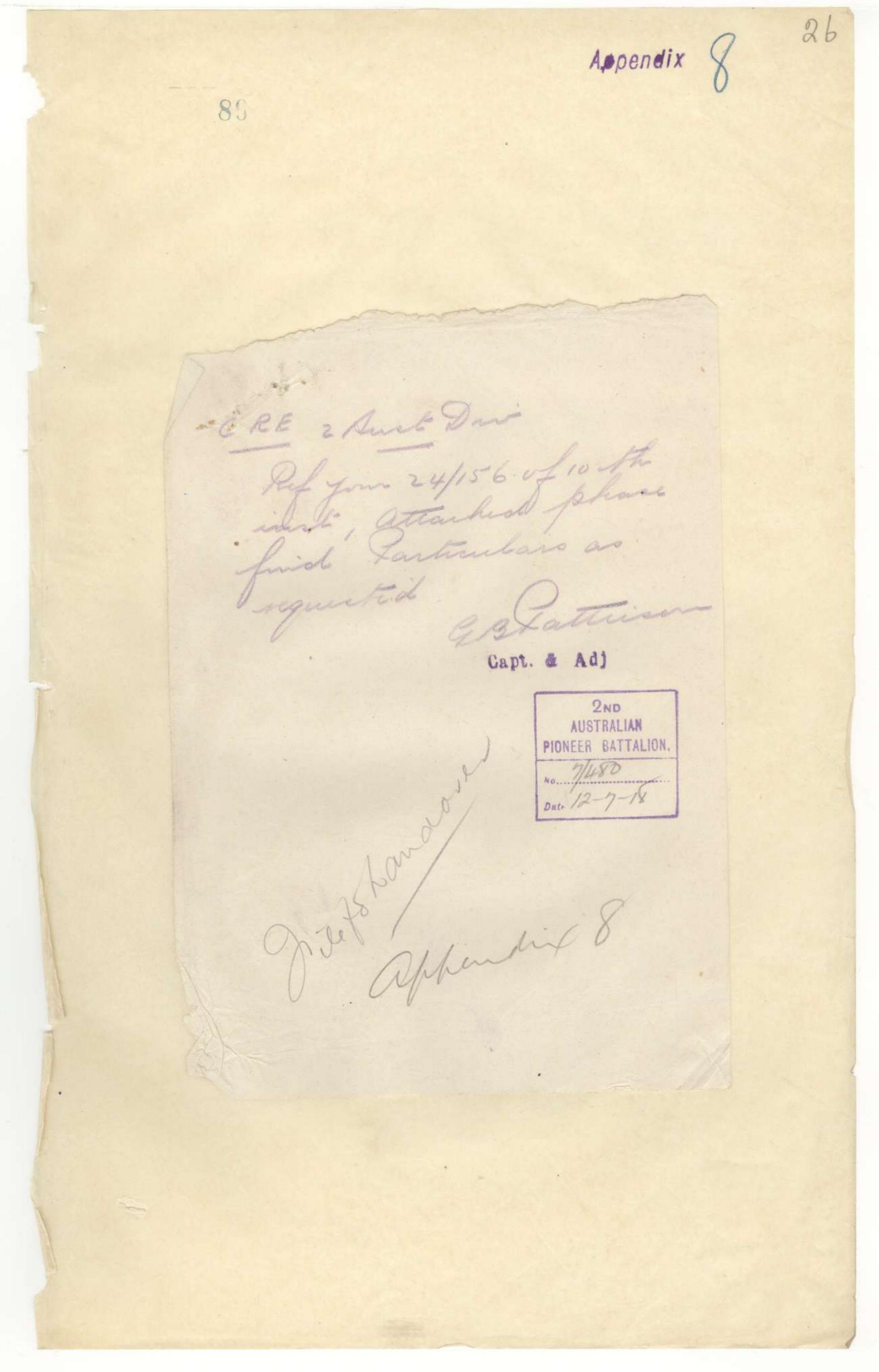
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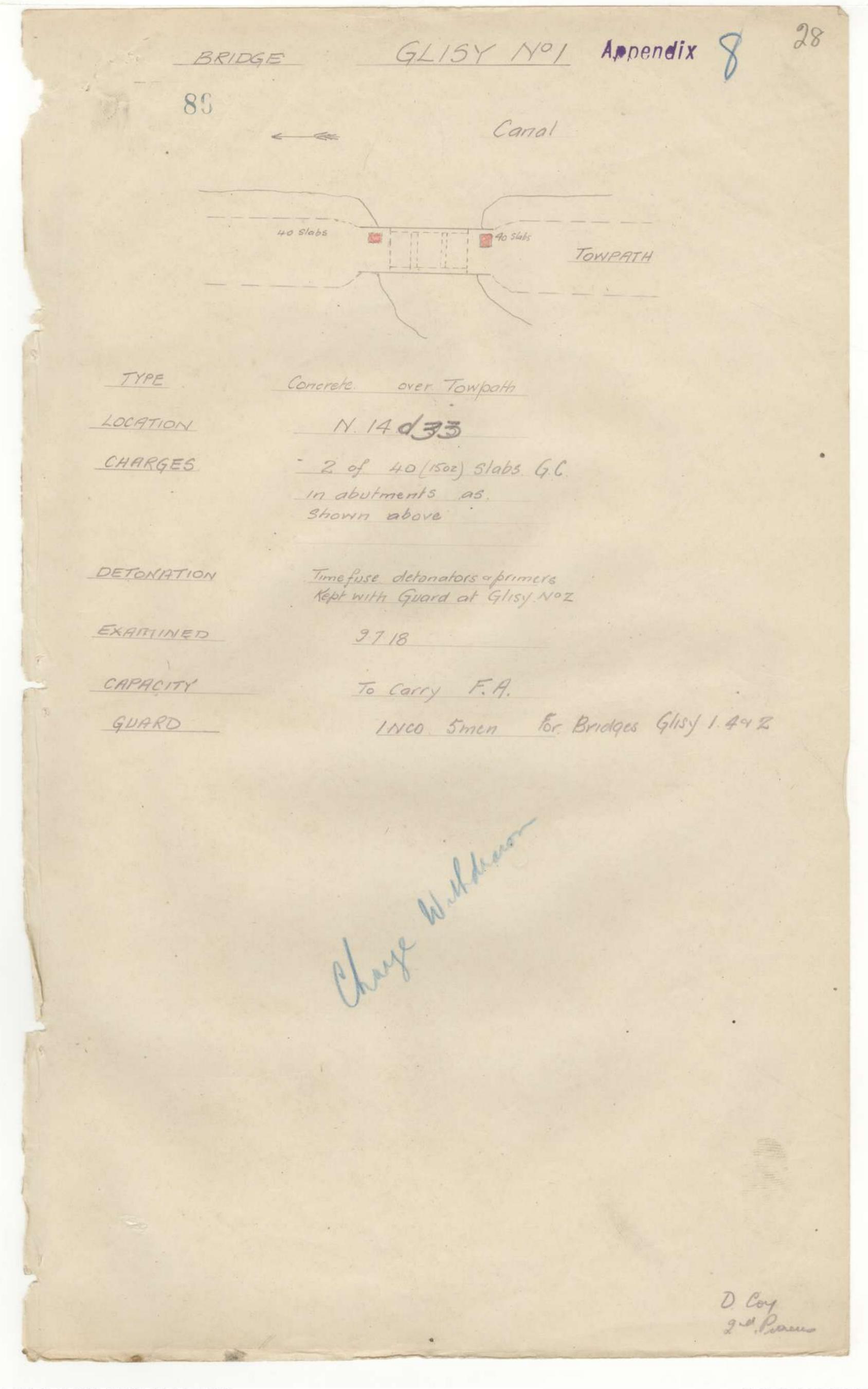
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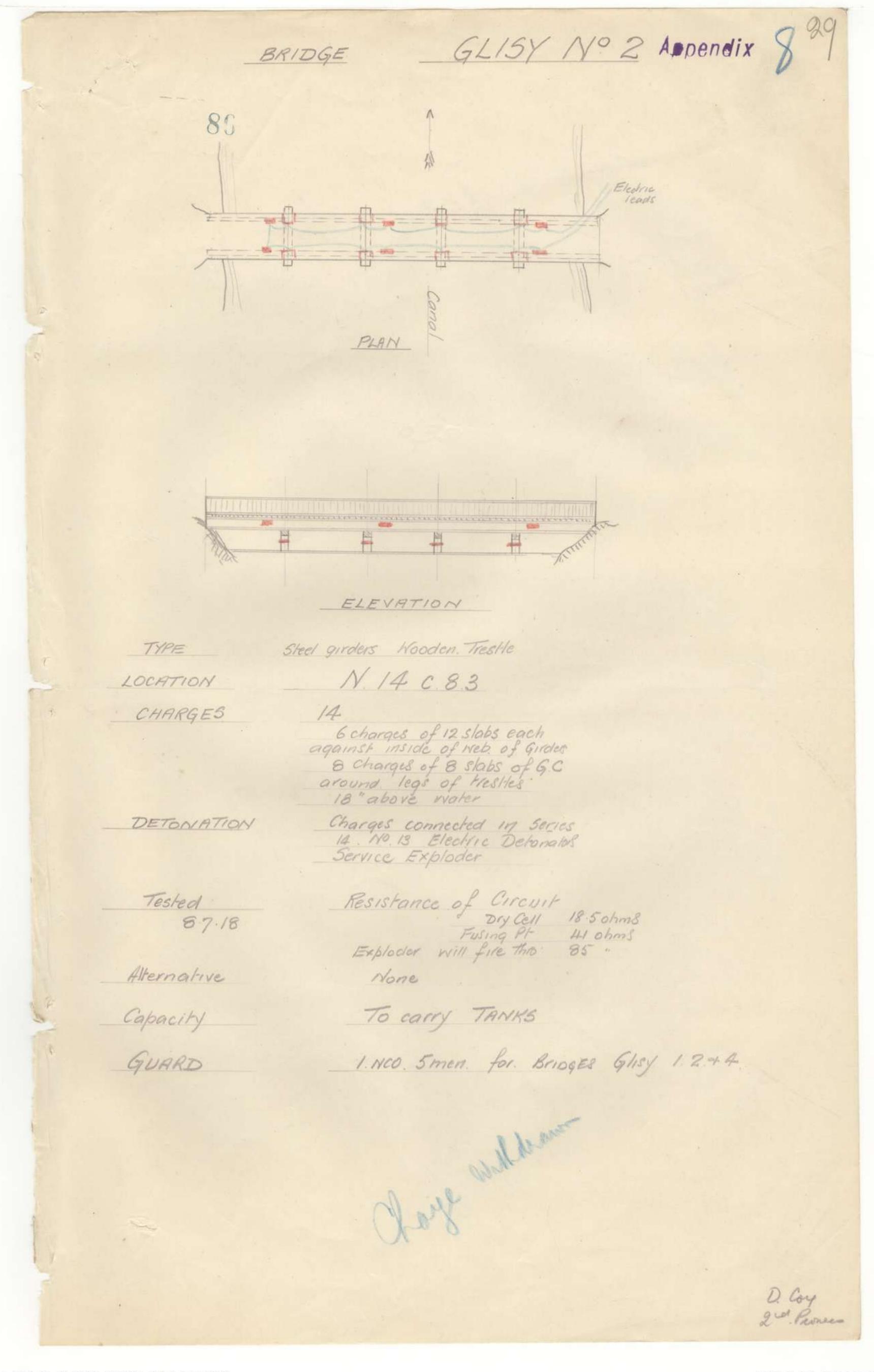
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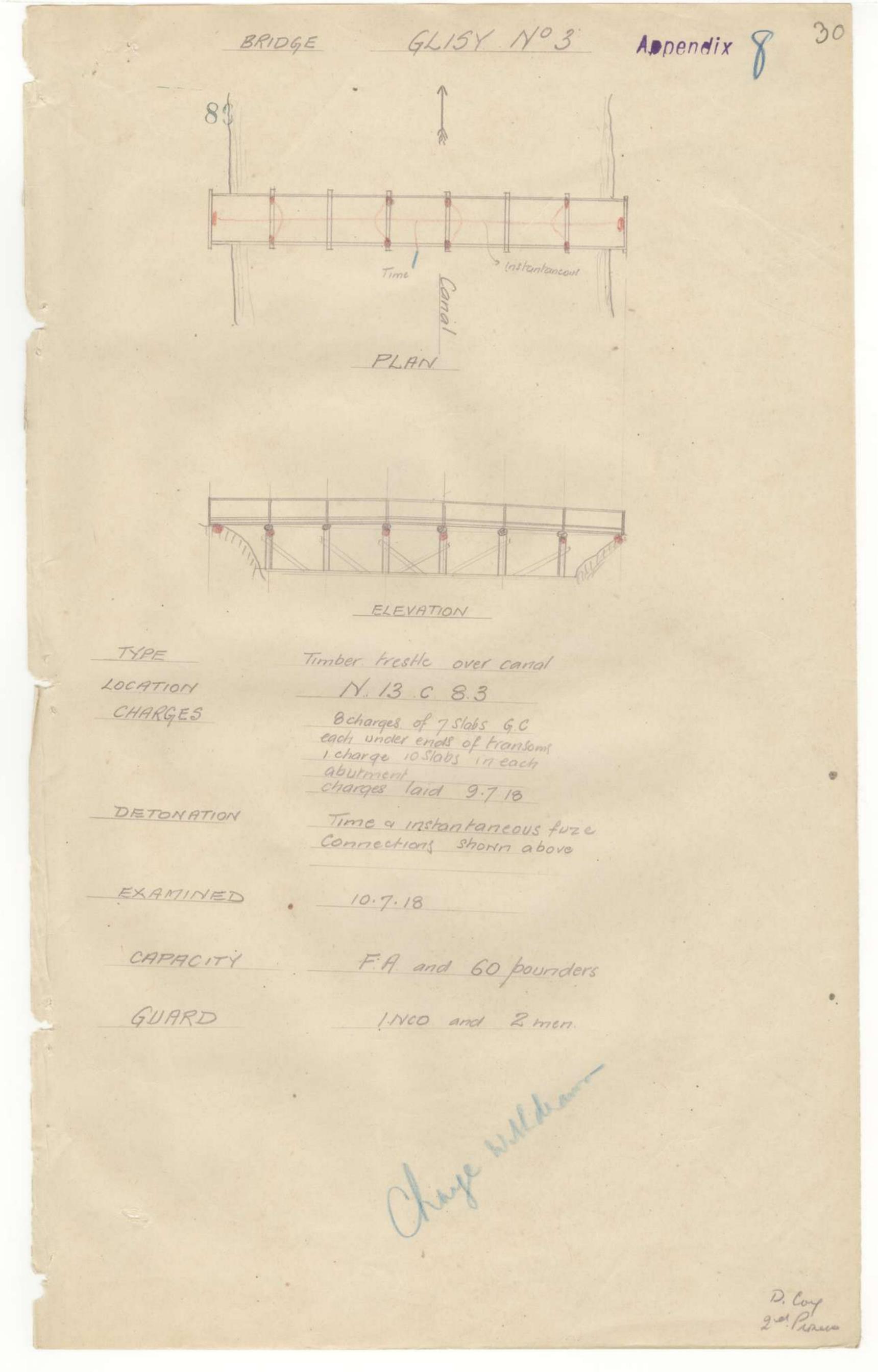


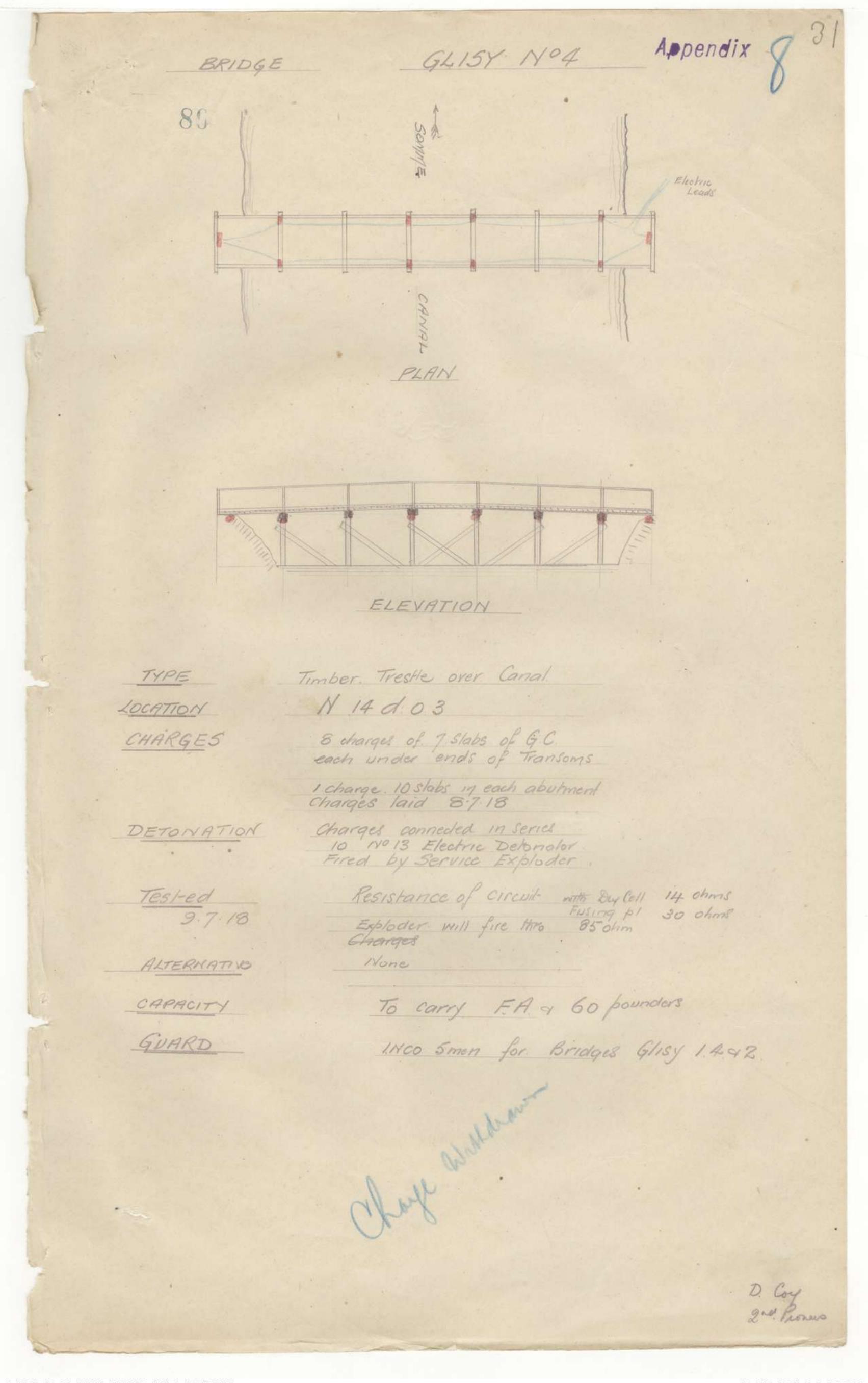


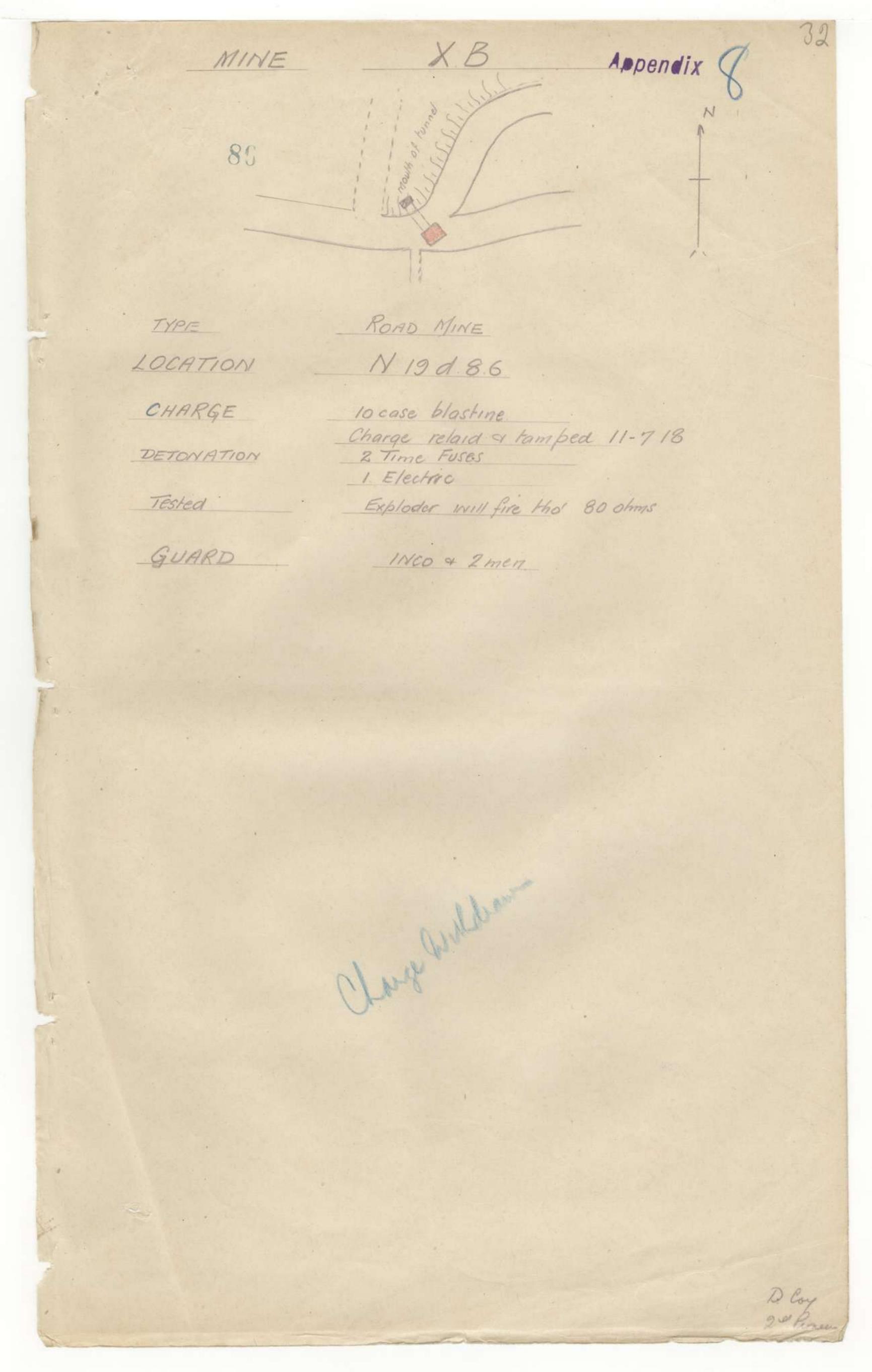
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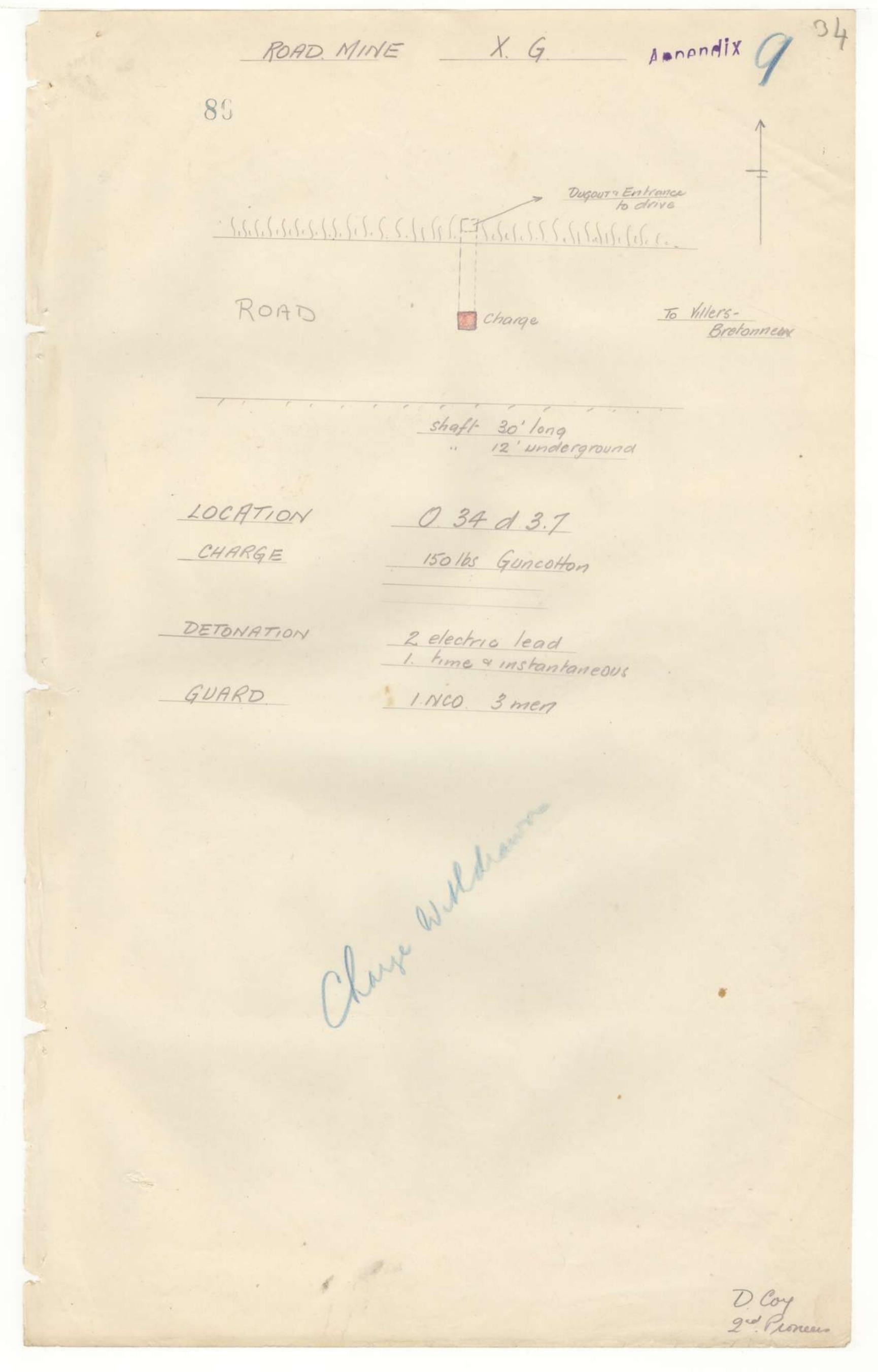


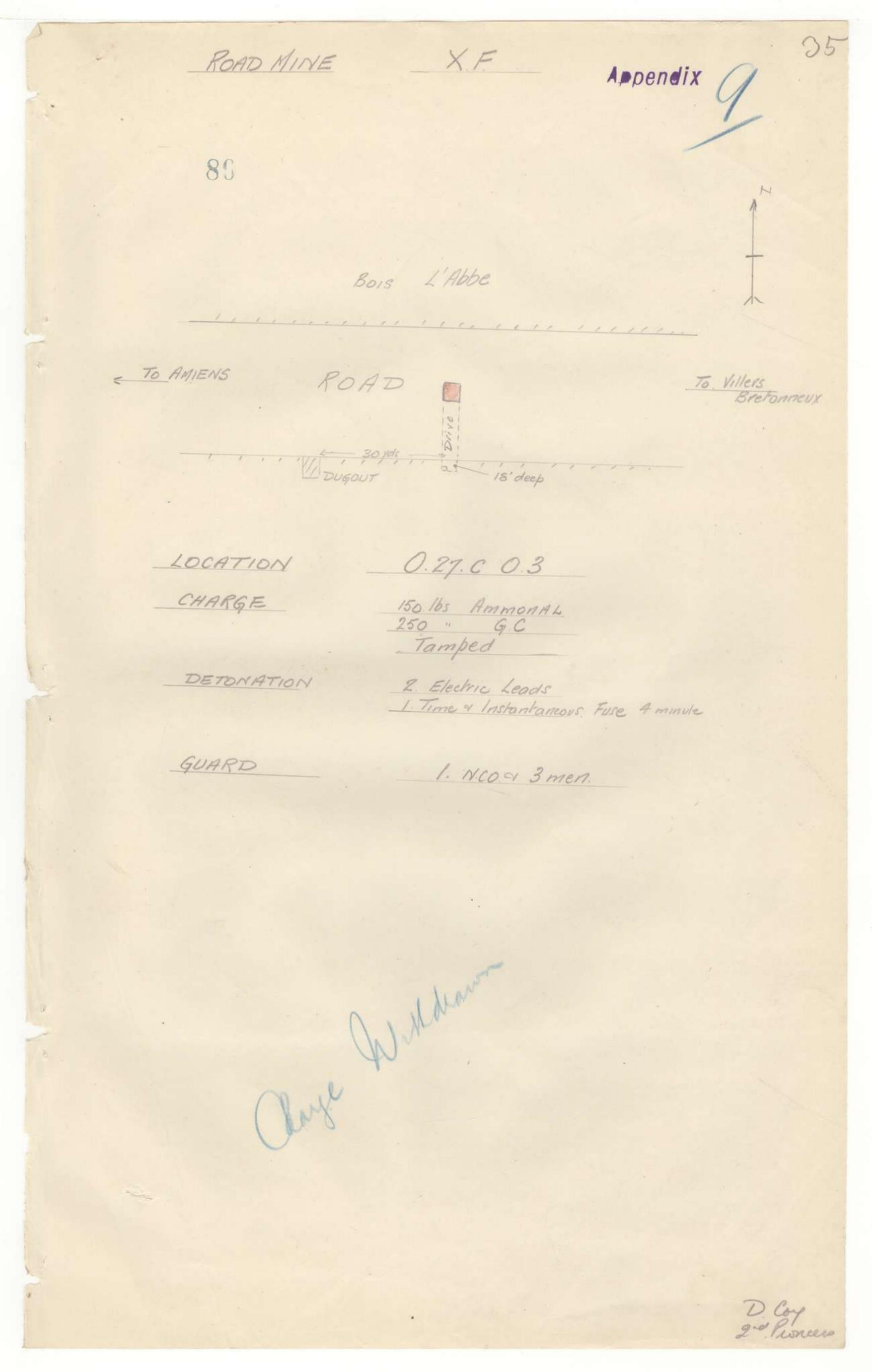


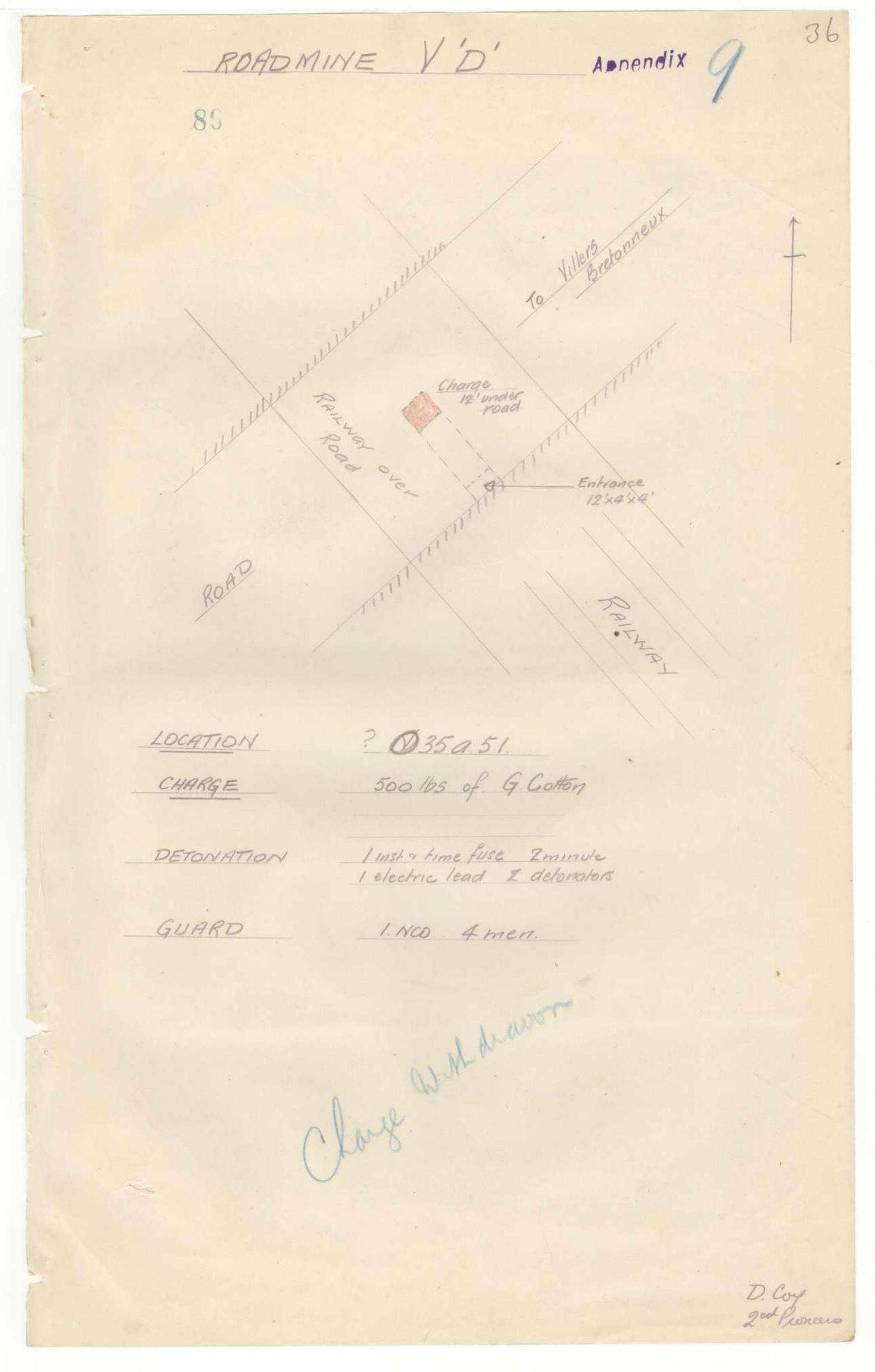


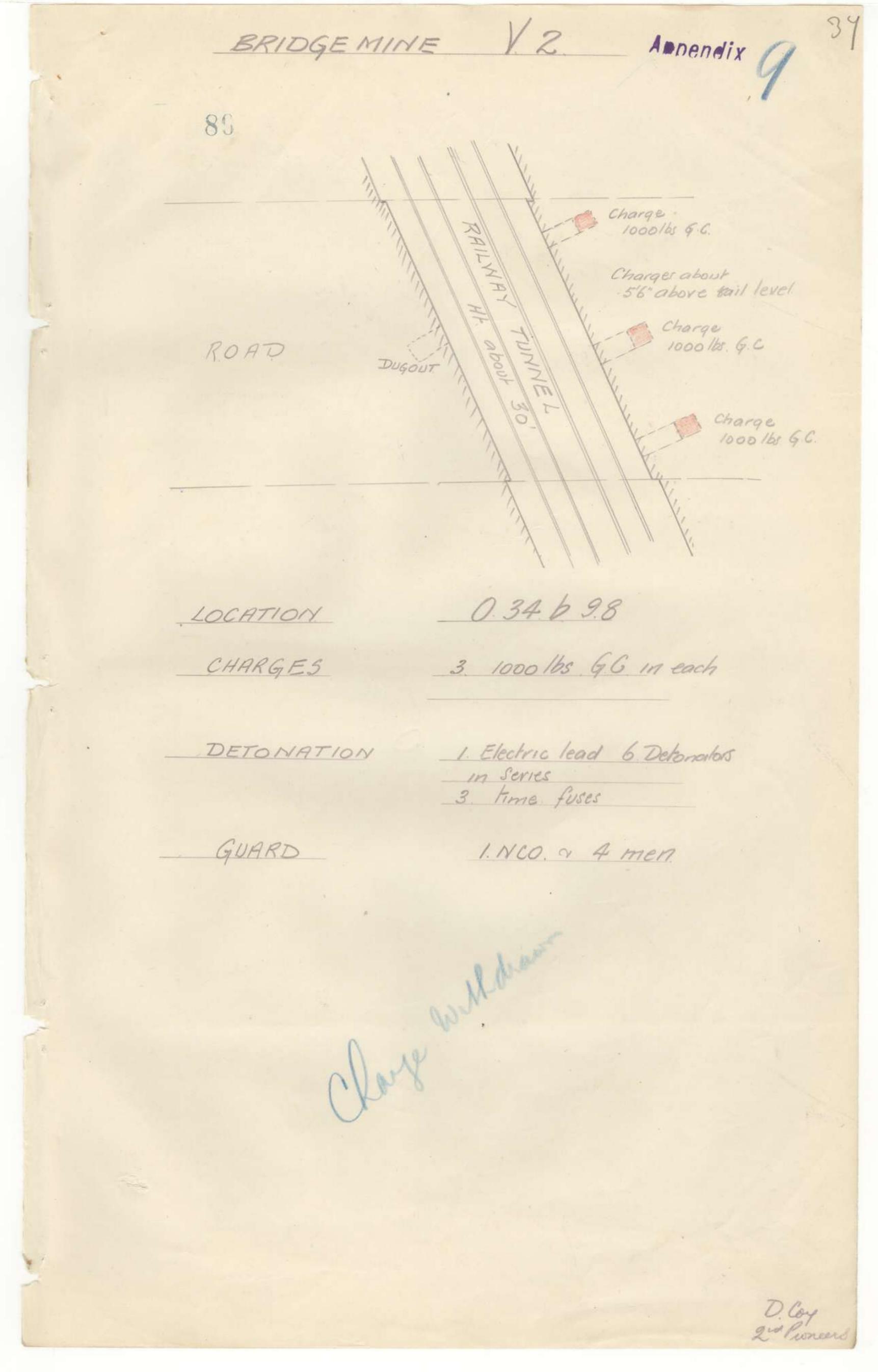


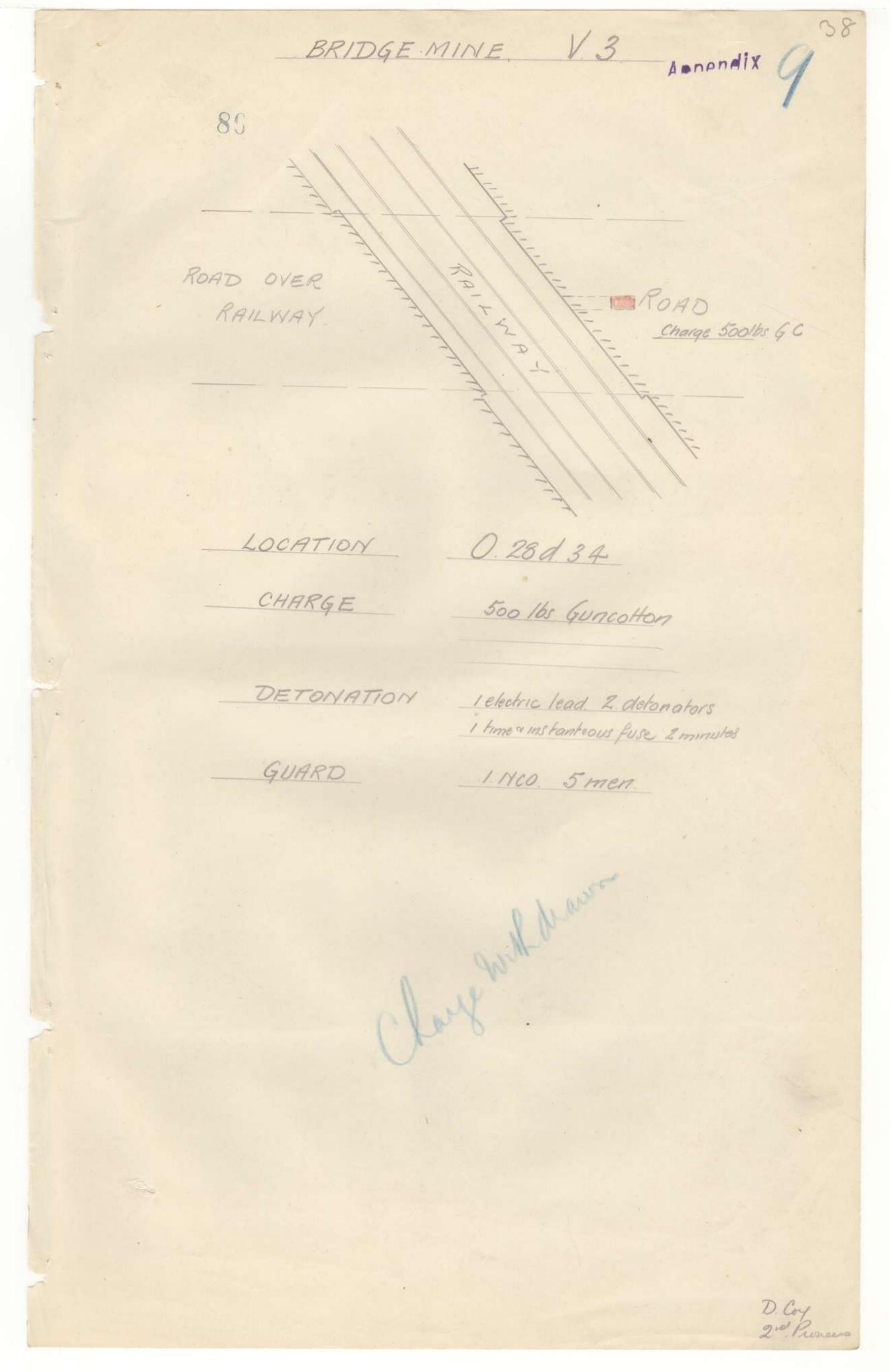
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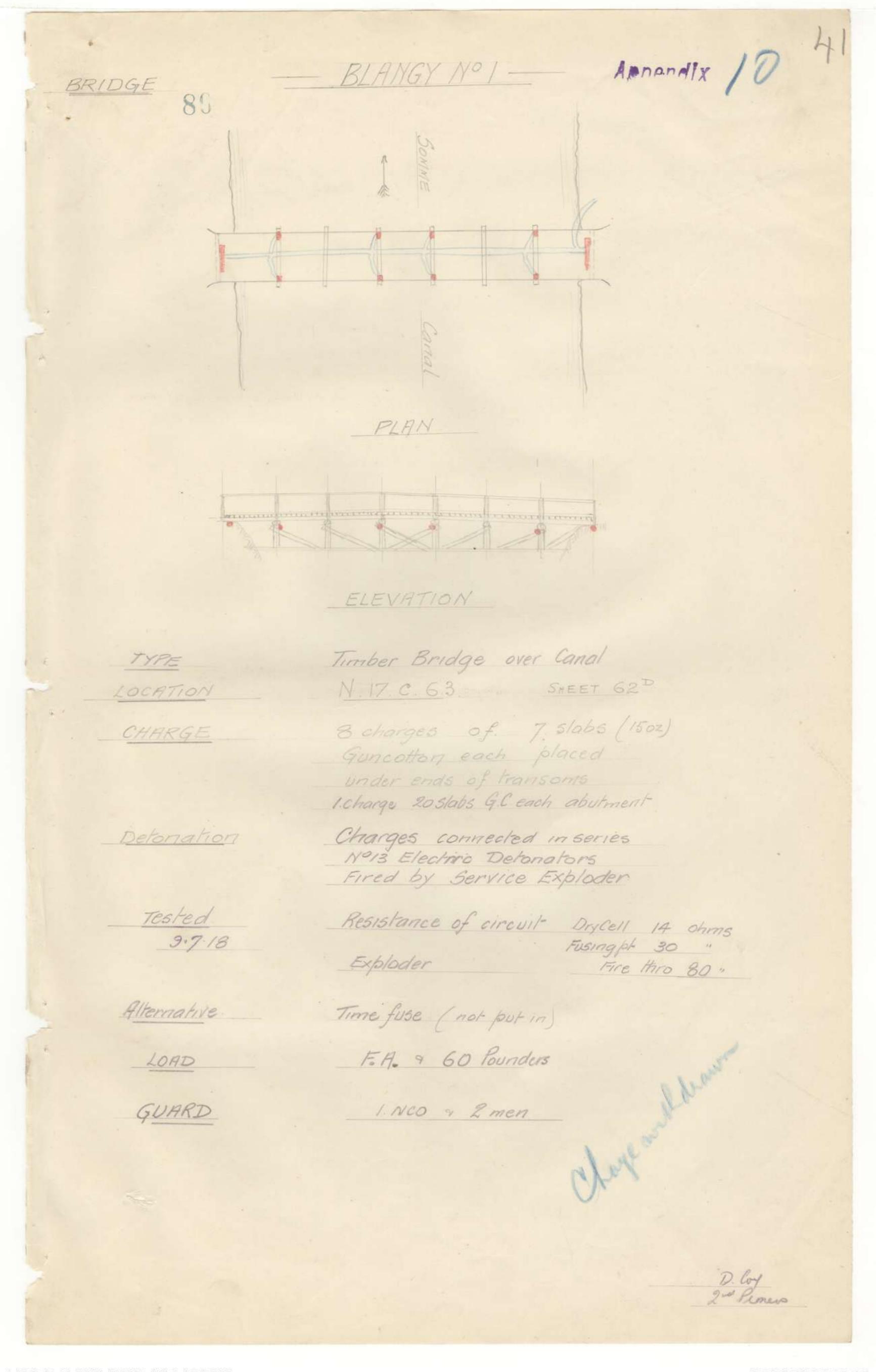


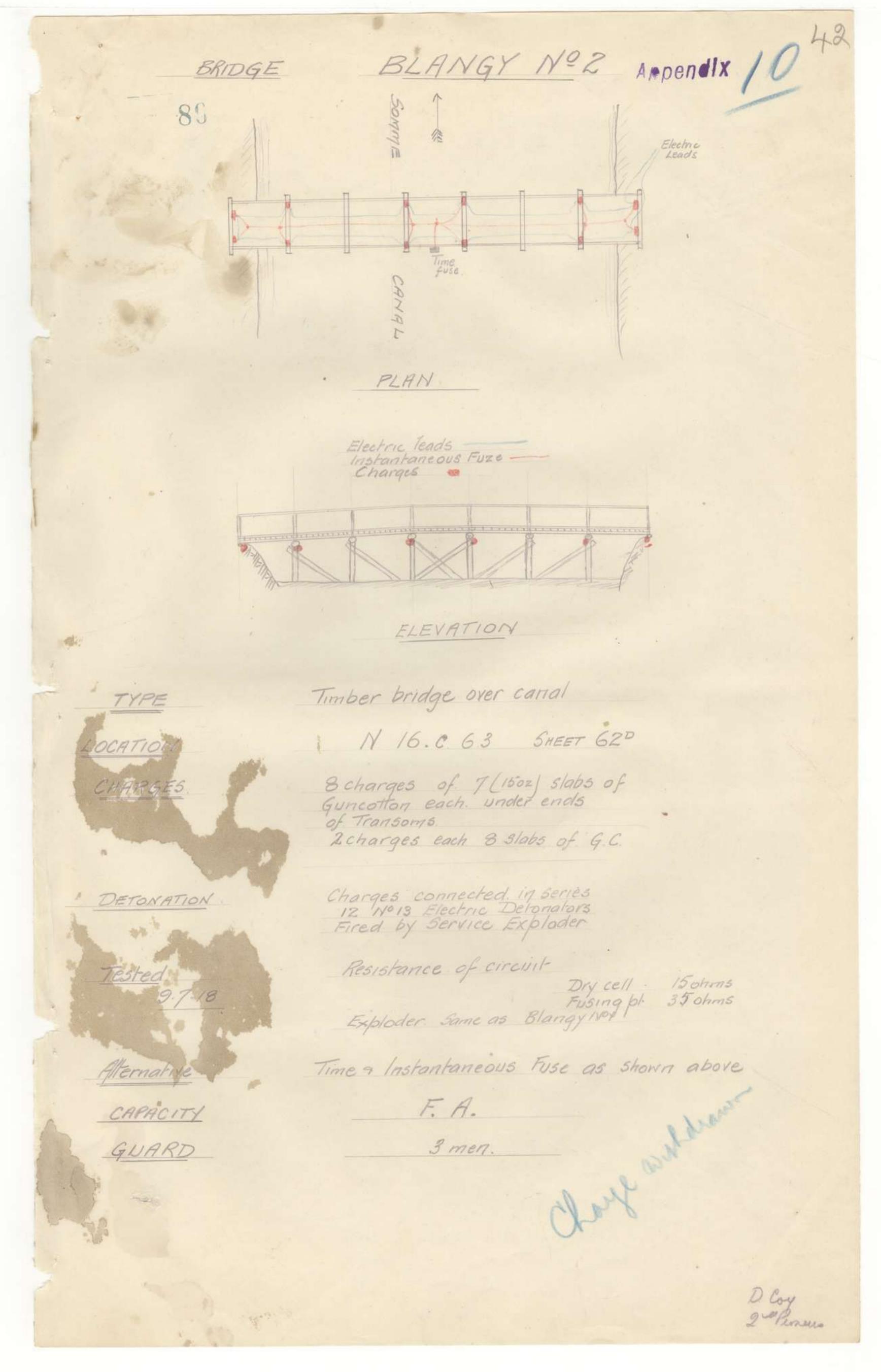


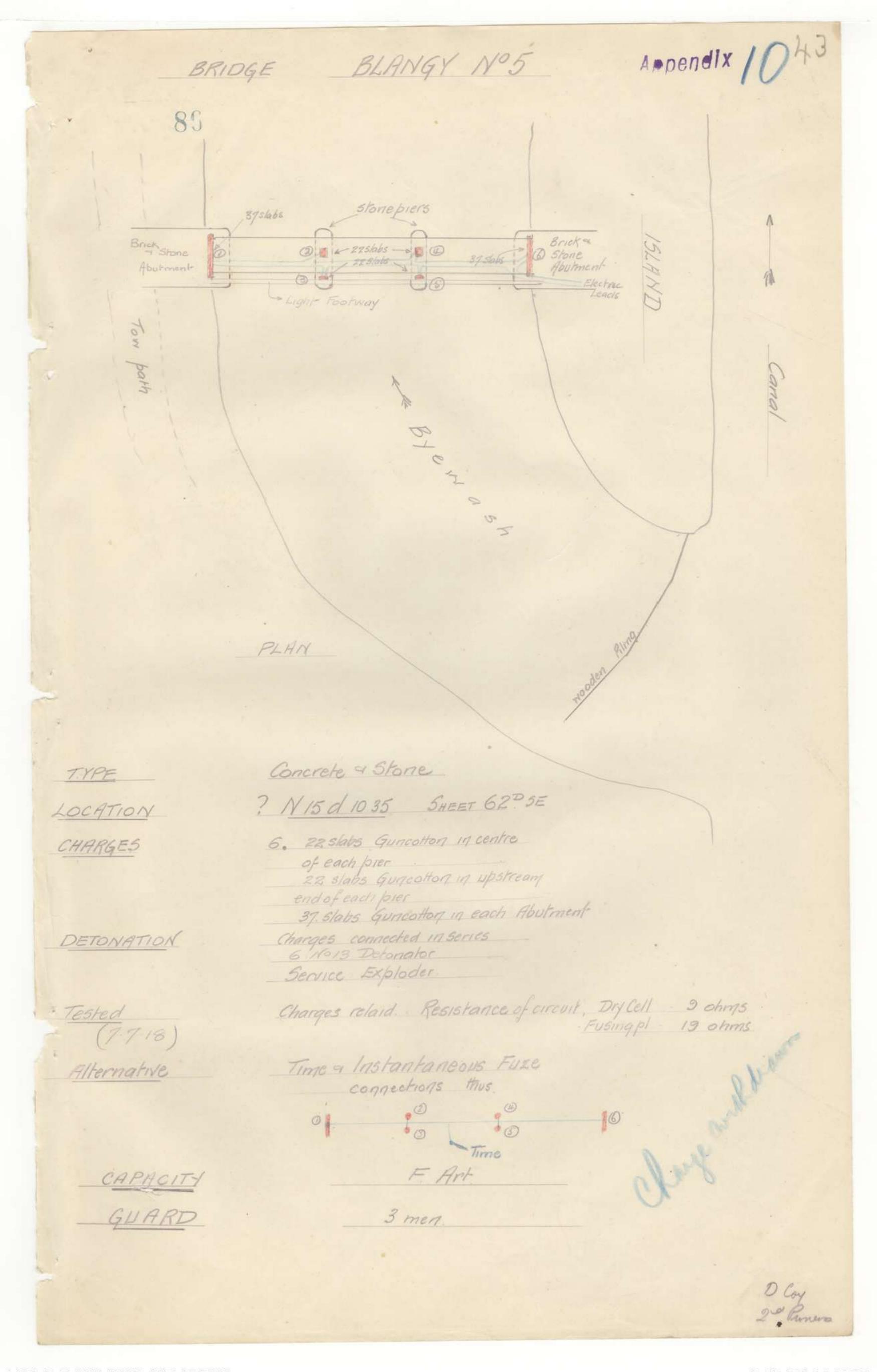


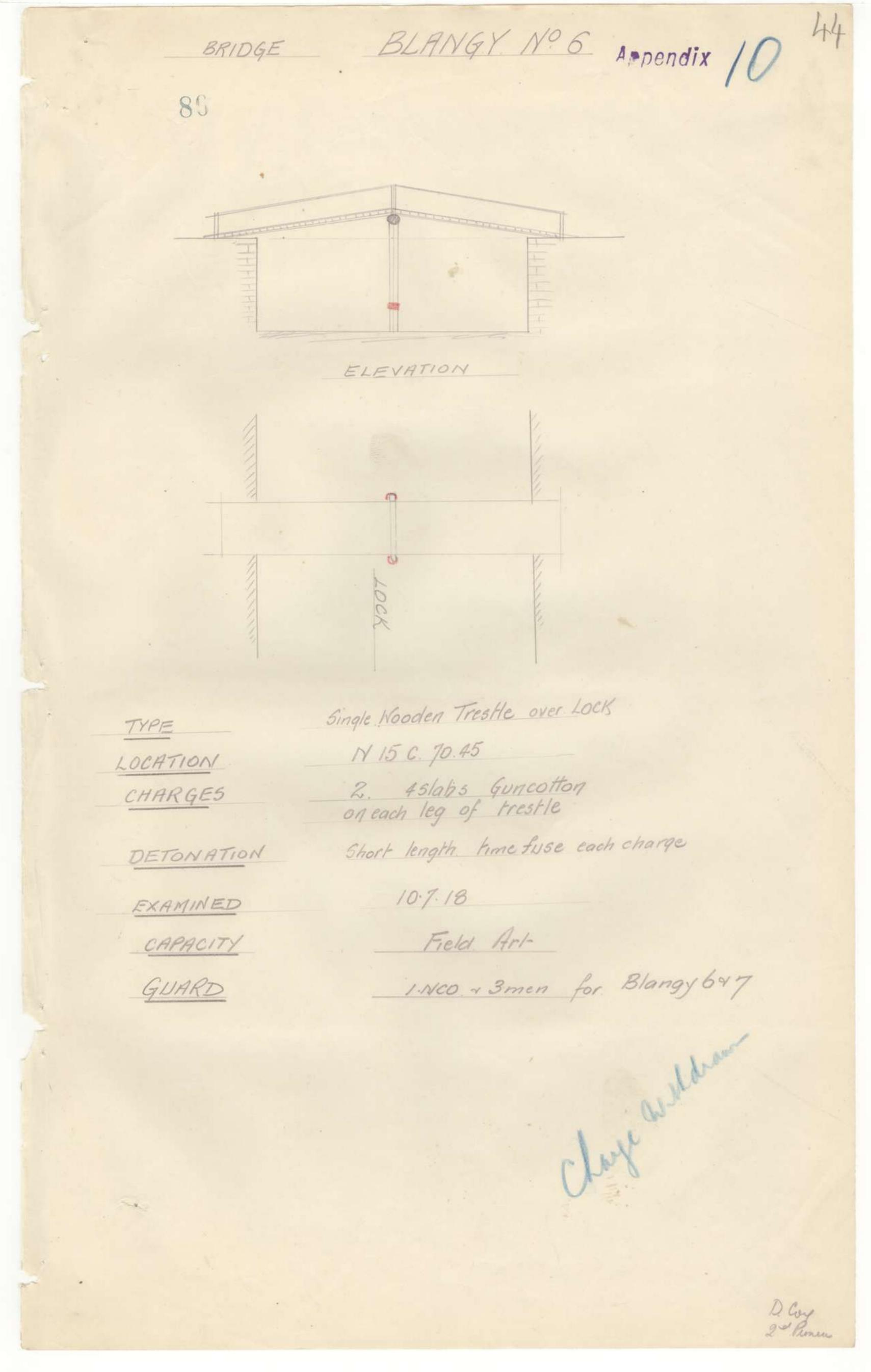
BRIDGEMINE V \$4 Appendix 85 YEN'S ACCOMMODATION TO AMIENS ROAD charge 1000lbs. 0.25.0.7.4 LOCATION CHARGE 1000 lbs Guncotton Telectric lead 3 detonators DETONATION 1 time & instantaneous Fuze GUARD 1.N.CO 5 Men.

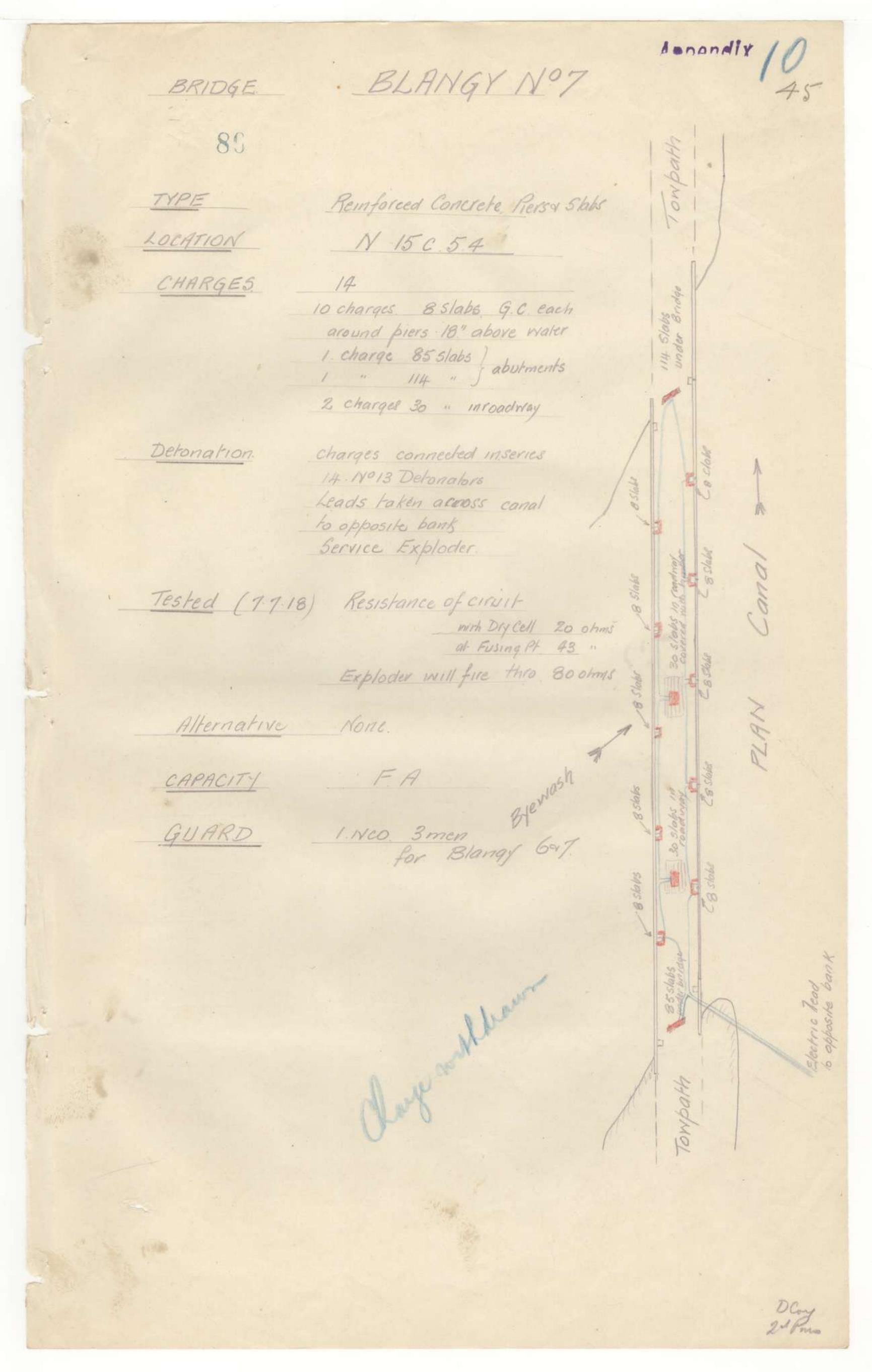
PAPPENDIX AUSTRALIAN LAUSTRALIAN LAUSTRALIAN BATTALION. Date appendix 10 BRIDGES Nº5 1.2.5.6.7.48 ROAD MINES T' & T NOTE Detonators on bridges are not placed in charge but are hanging ready Responsibility for Actual Demolition 2nd Proneer Bn A.IF Orders for Demolition 2nd Aust Division

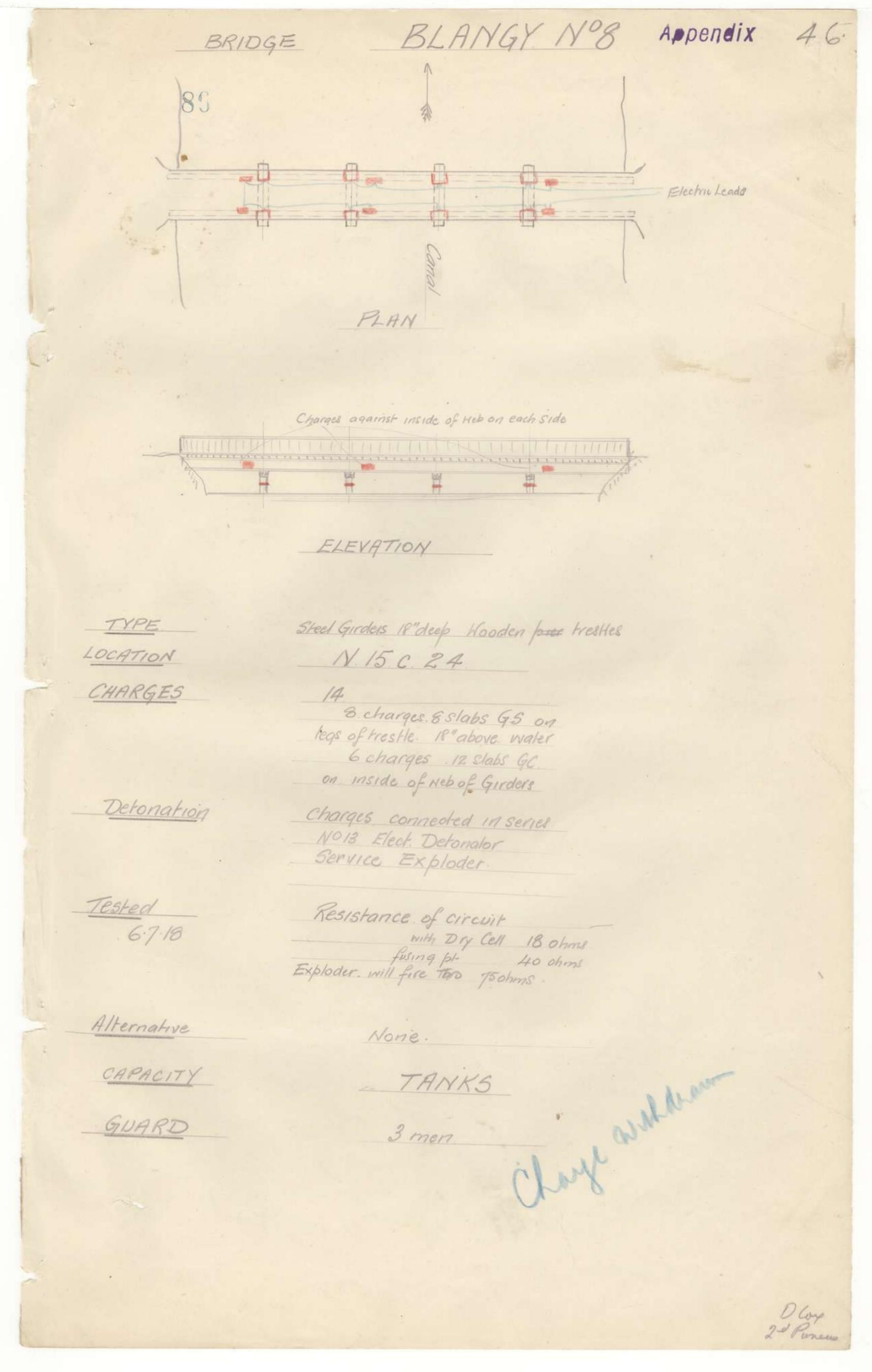


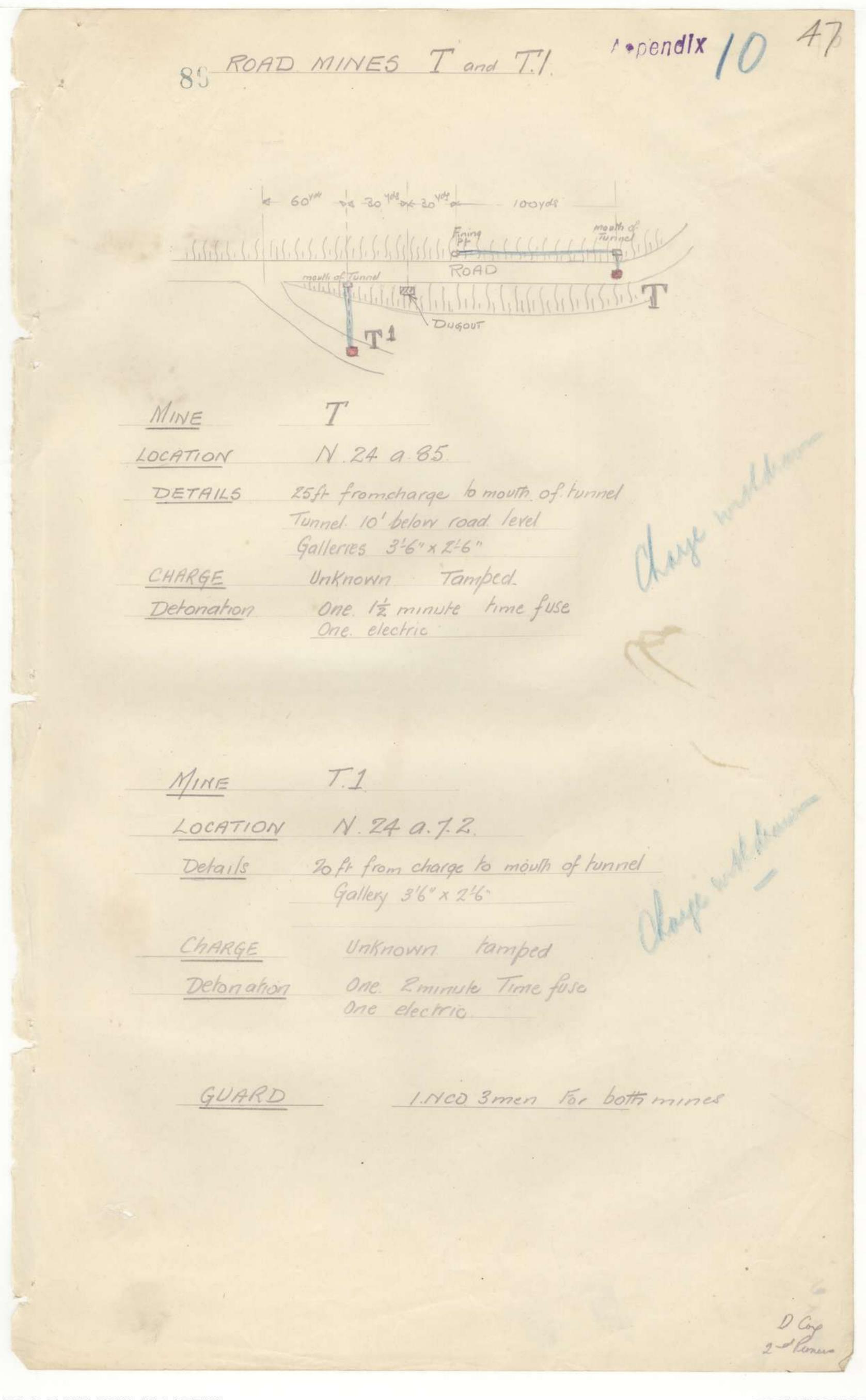


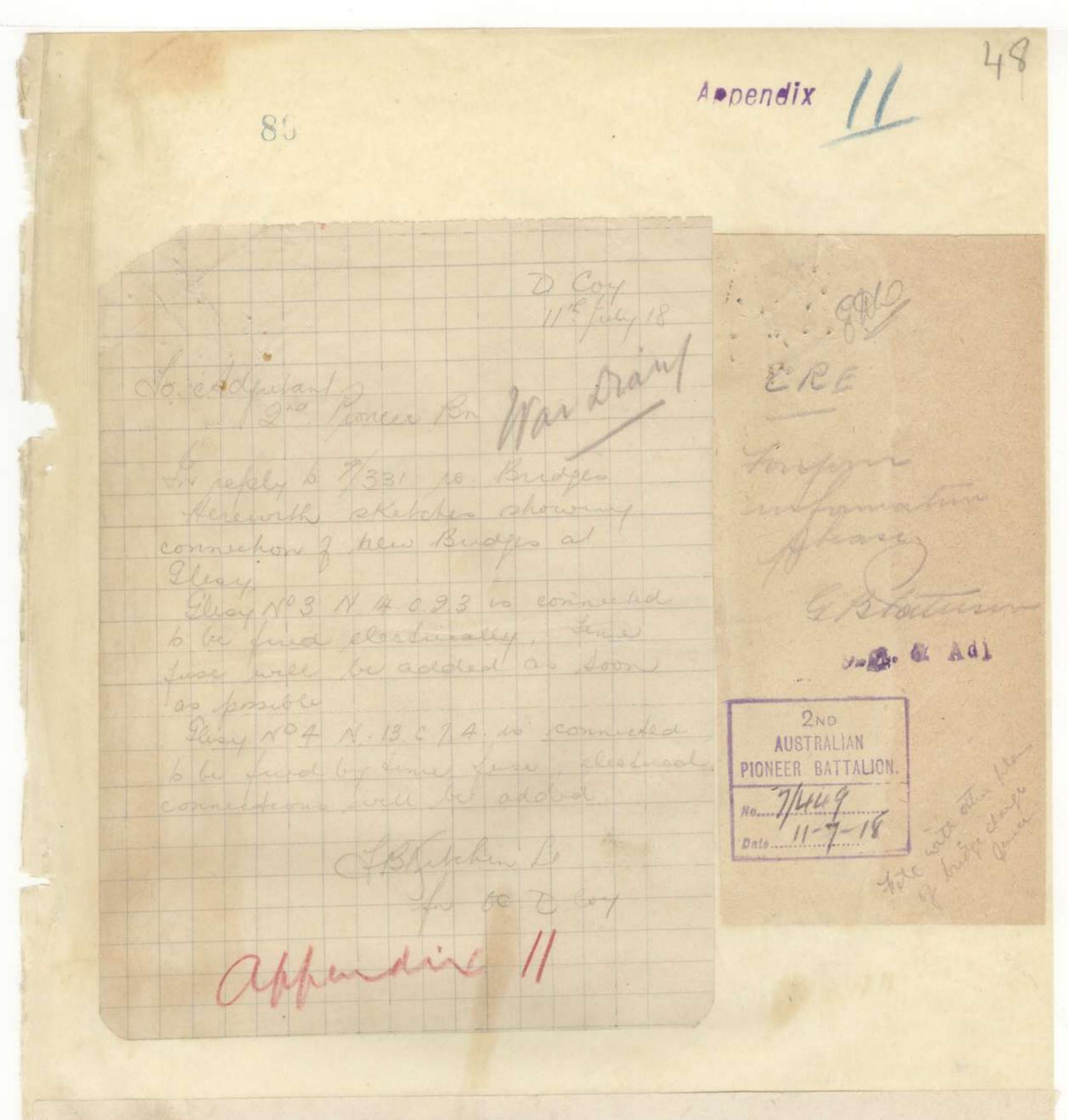












SECOND AUSTRALIAN PIONEER BATTALION.

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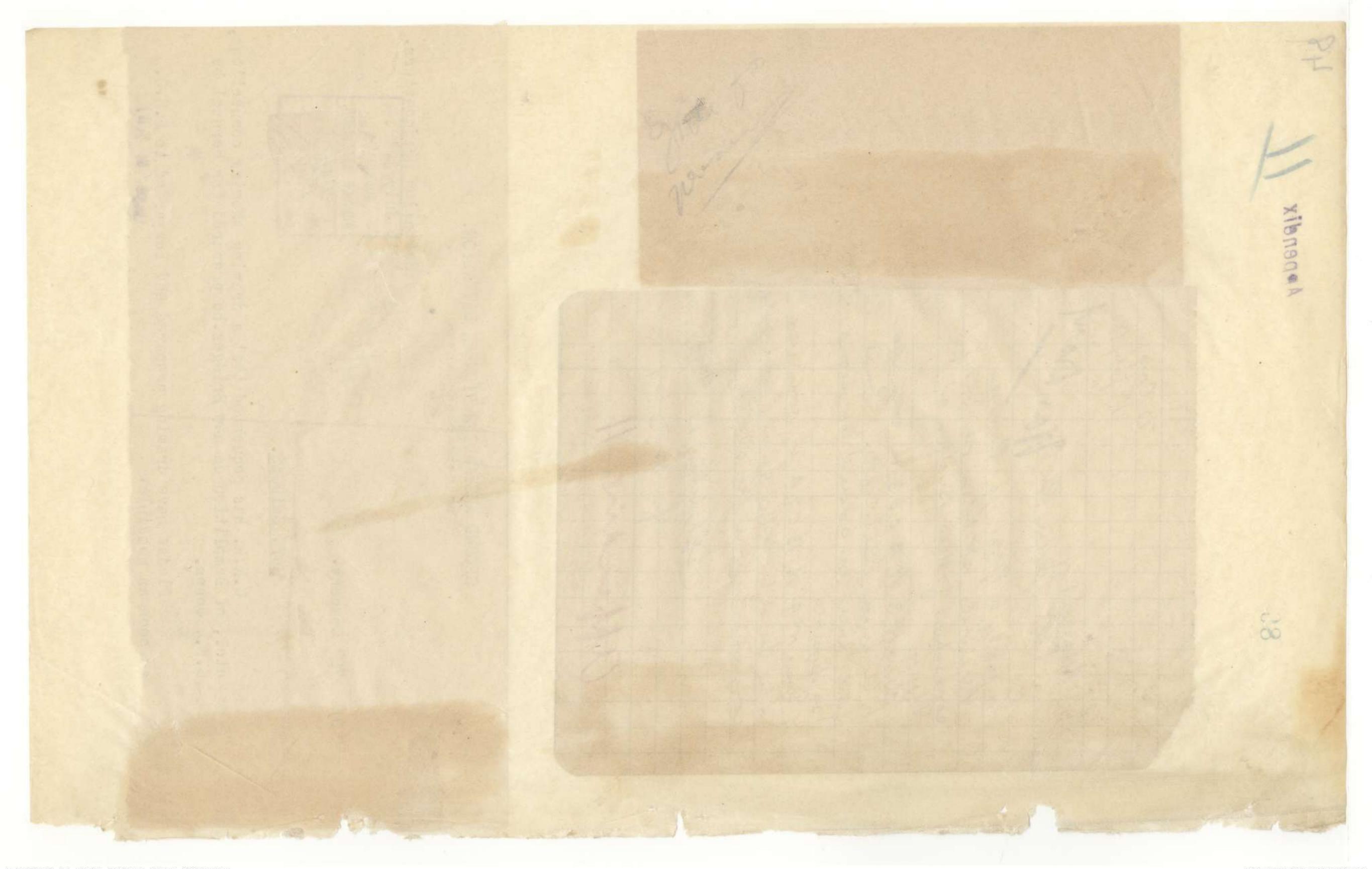
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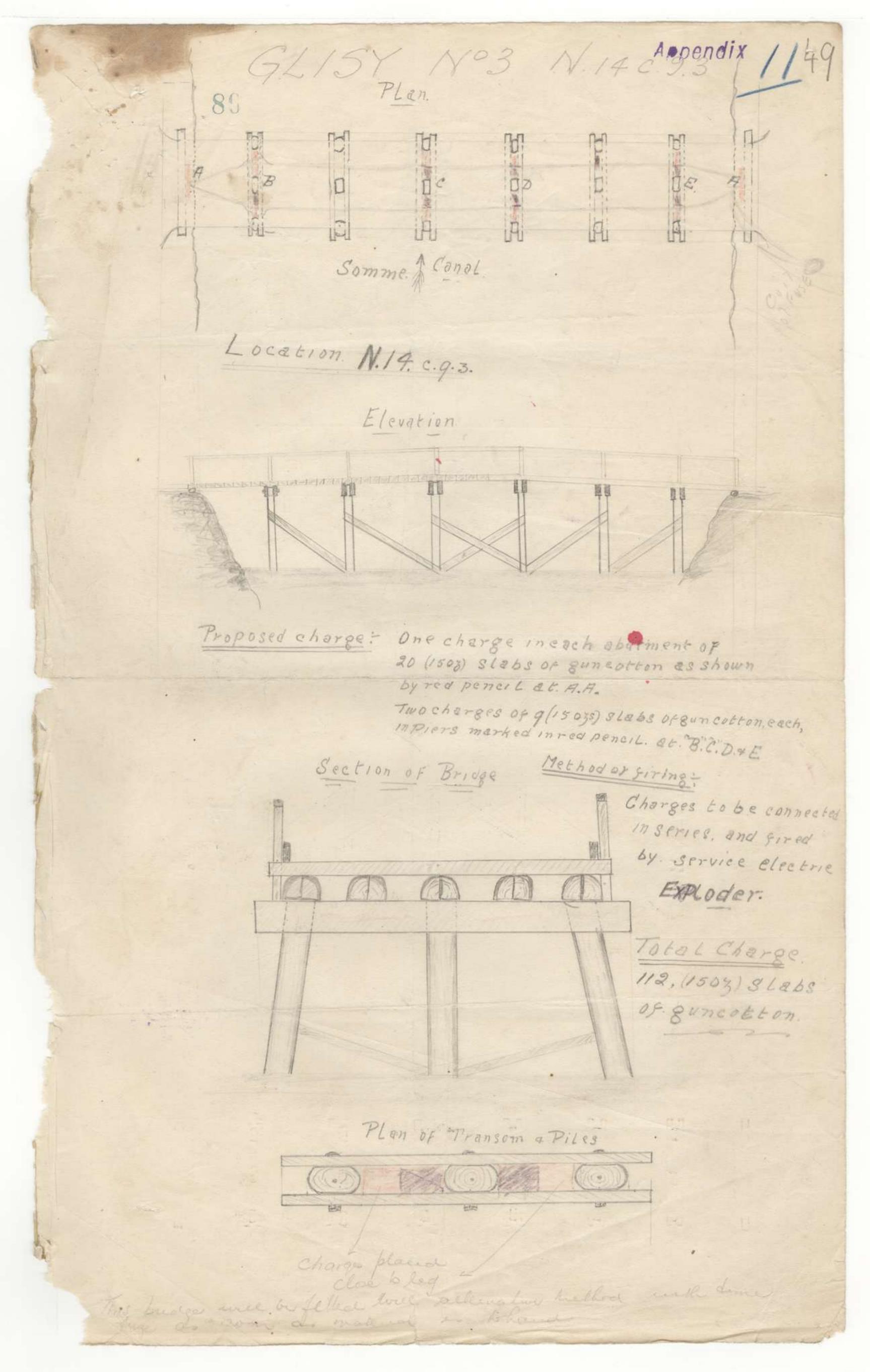
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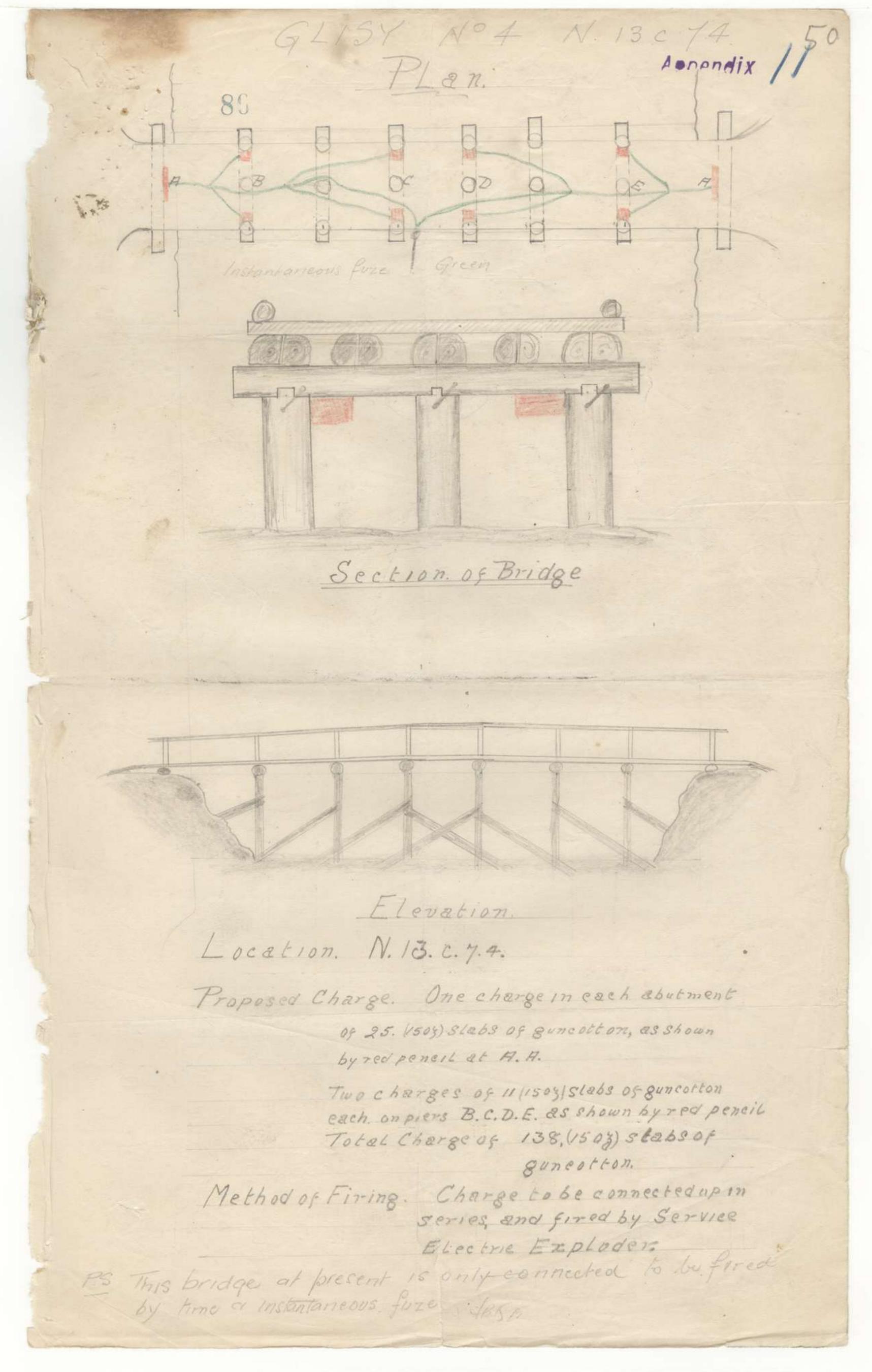
C.R.E. has requested that a drawing showing connections, etc., of Demolition on new Bridges.be prepared for perusal by C.E., Corps,

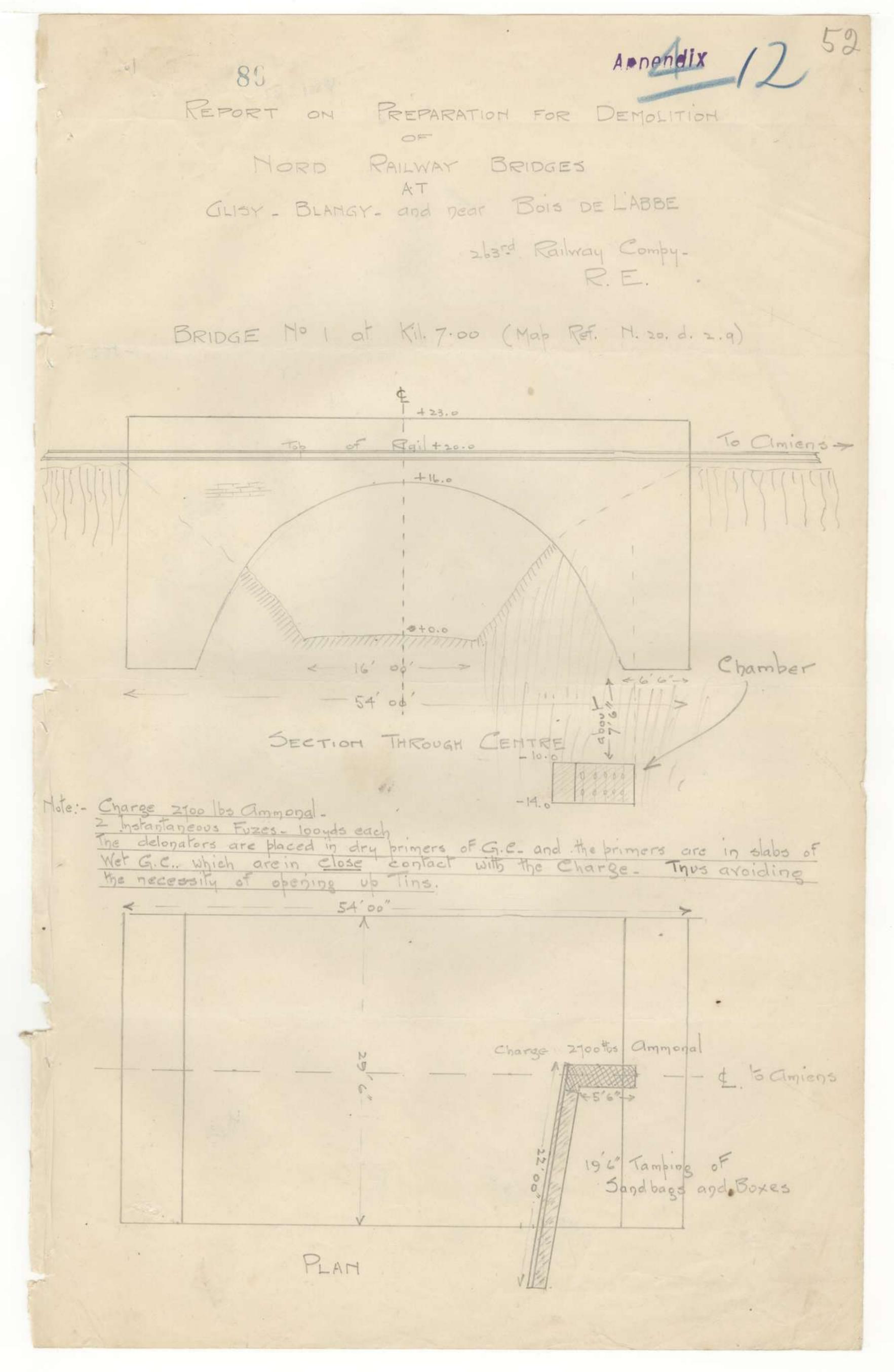
Please have drawing prepared and forwarded to B.H.Q. soon as possible.

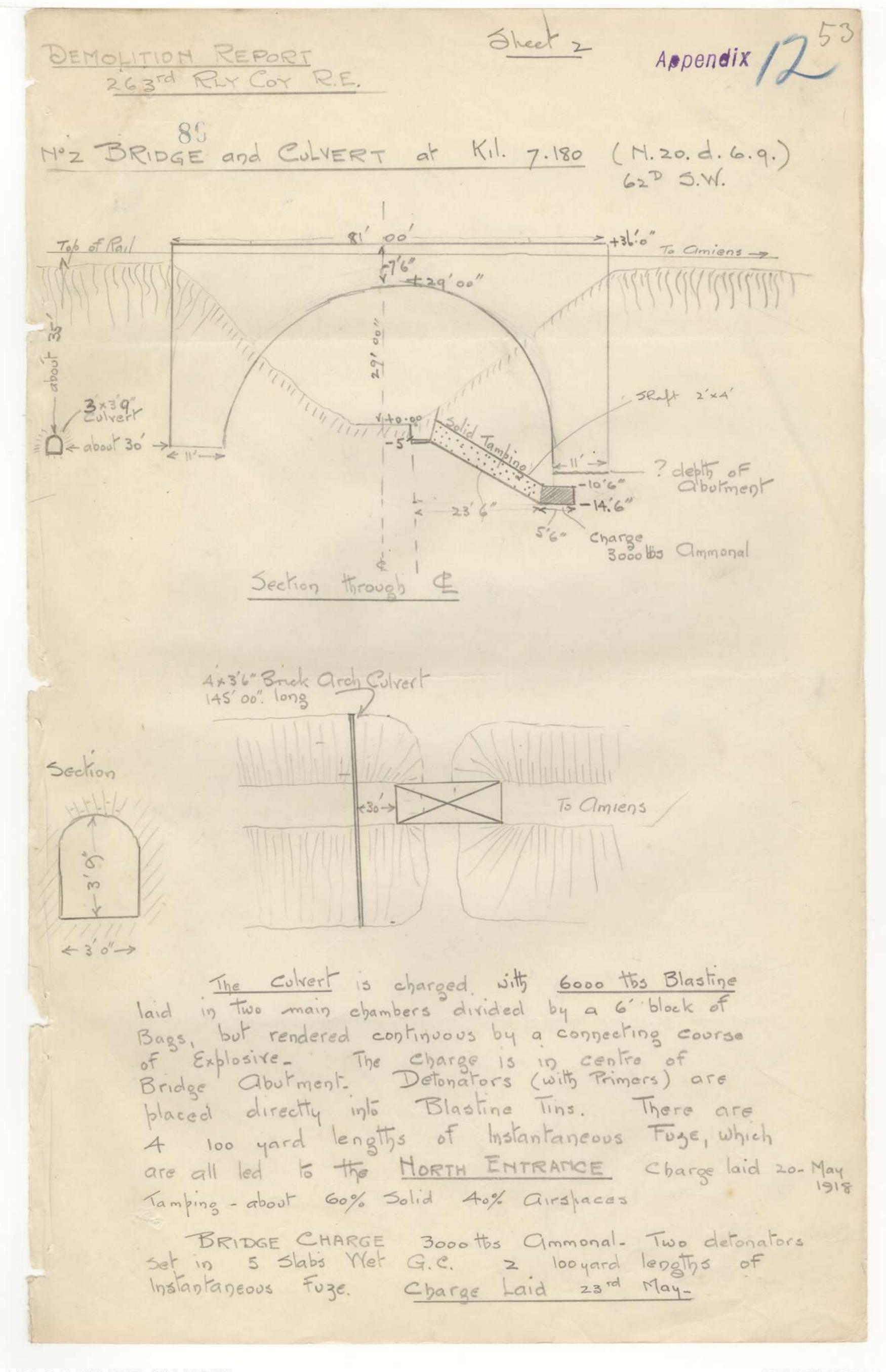


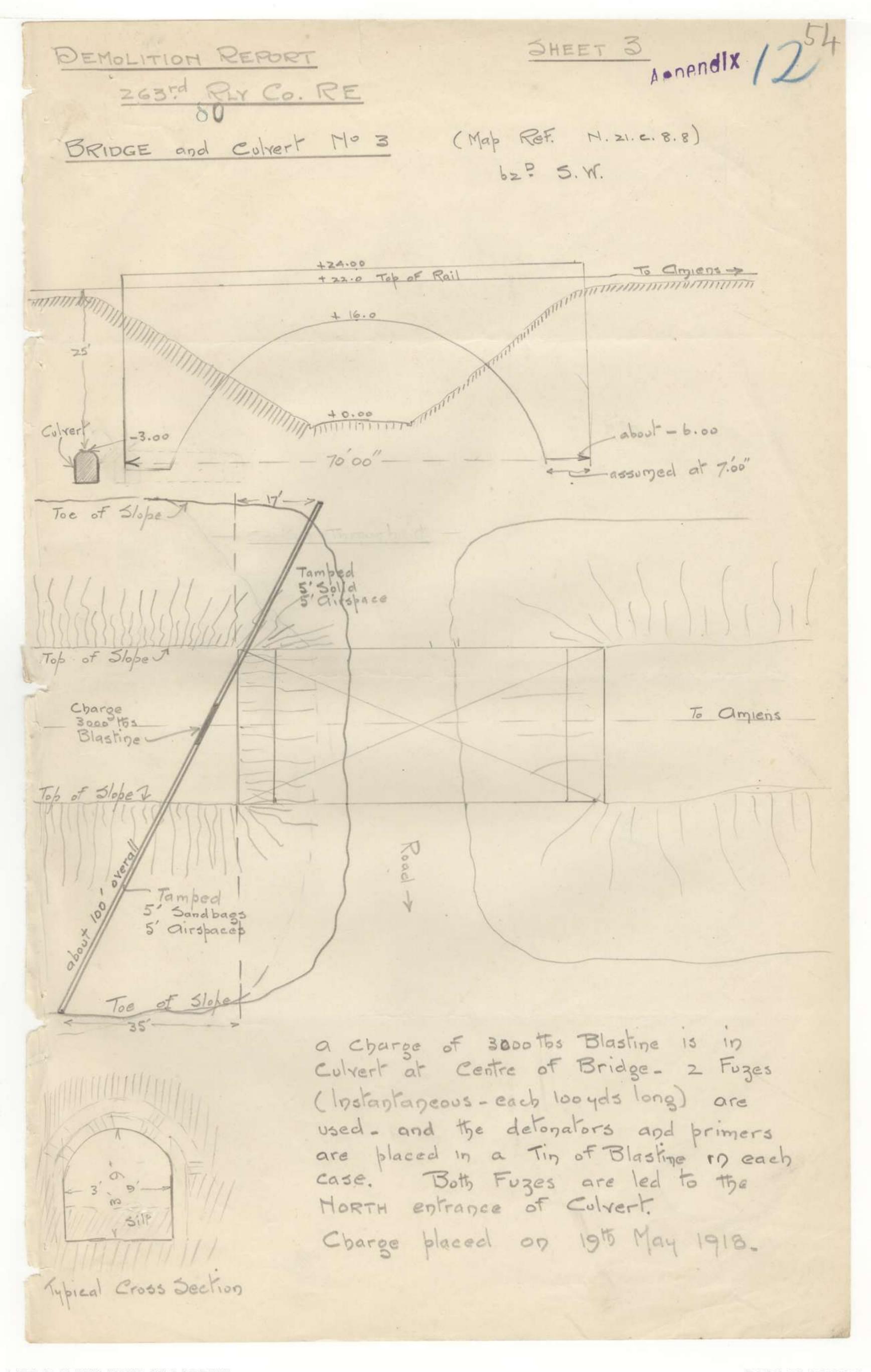
AUSTRALIAN WAR MEMORIAL

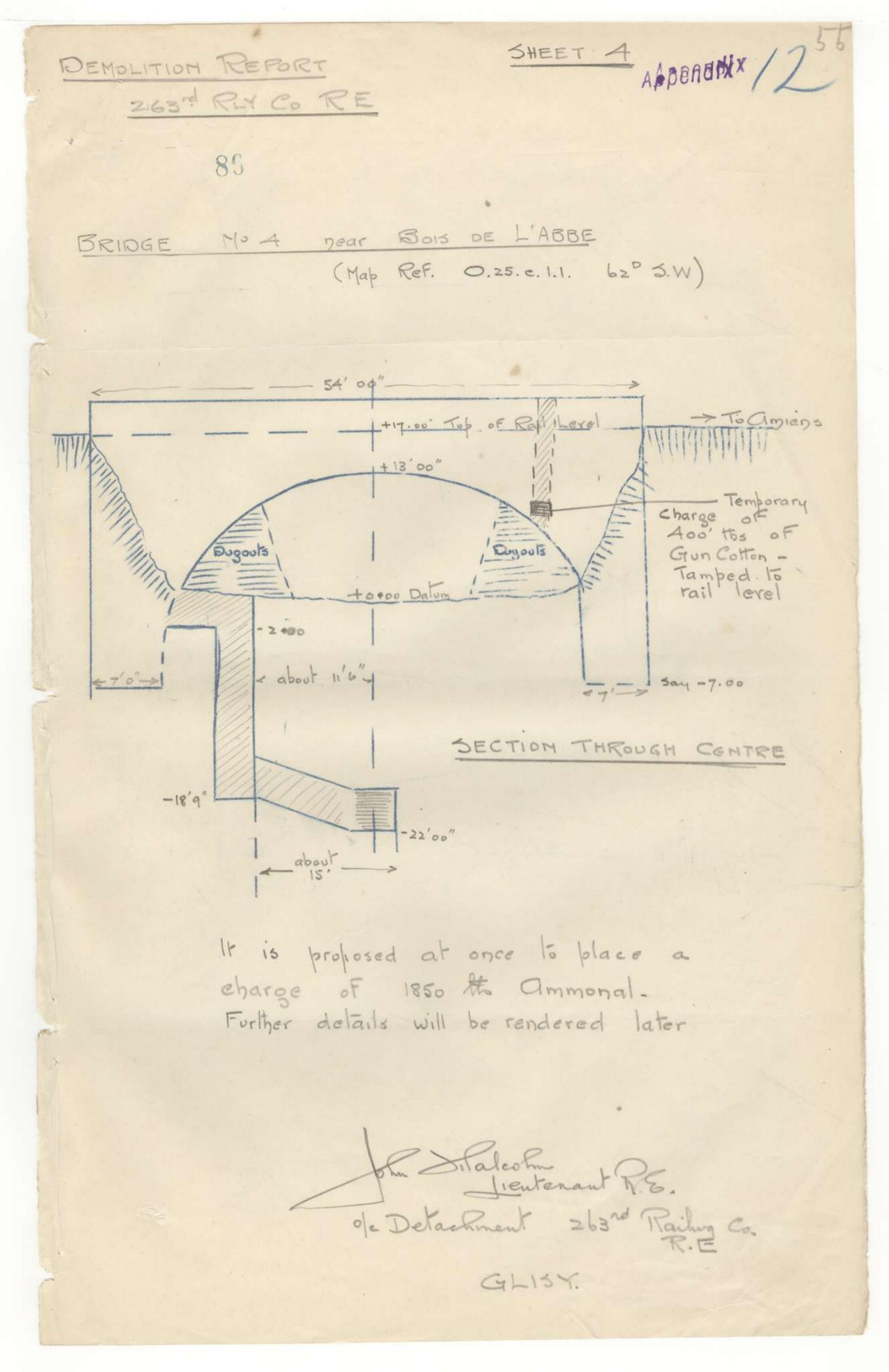












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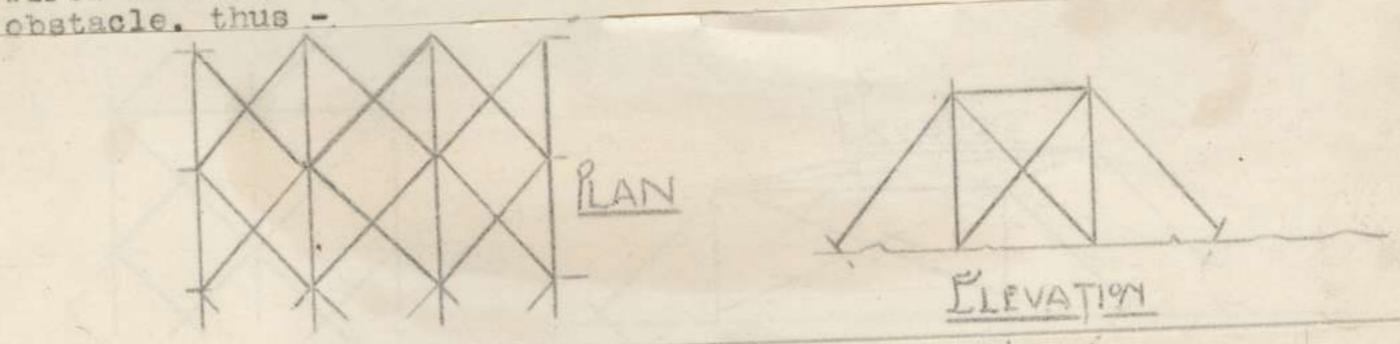
2nd Australian Division.

Reference G.25/518, regarding systems of witing. I attach copies of replies on subject received if om Field Company Commanders.

1. It is recommended that the principle of 2 men being detailed } to carry out one task throughout be adopted.

2. I think the modification of the ordinary double apron fence suggested by O.C. 6th Field Company is best and simplest. It consists in using long pickets instead of short for anchors and

The double apron fence as commonly constructed is not in my making fences with them. opinion a very formidable obstacle. It is frequently made so low that it can be walked through and its parallel wires are about as simple as possible for cutting by hand. I consider that it should be regarded as a standard only where wiring has to be done in close contact with the enemy, where simplicity and quickness of erection at night are essential. It has however come to be regarded as the standard for all conditions and when a belt of double apron fence has been erected a position is regarded as sufficiently wired. Where it is possible to do wiring deliberately I think this is wrong and that a more effective class of wiring should be erected. For quickness probably two interlocked double apron Belts with wires added to connect tops of vertical pickets would form a good



The above would form a single belt difficult to get through. I believe the most difficult type of deliberately constructed wiring to destroy by shell fire is one which forms a series of enclosures, the sides of which in their simplest form would be simple vertical fences about 4' high with 5 or 6 wires In order that a passage may be made right through such an obstacle it would be necessary for several adjoining fences to be cut by separate shells. Geometrically regular types would be as illustrated in (a) and (b), though probably an irregular pattern such as (c) would be better.

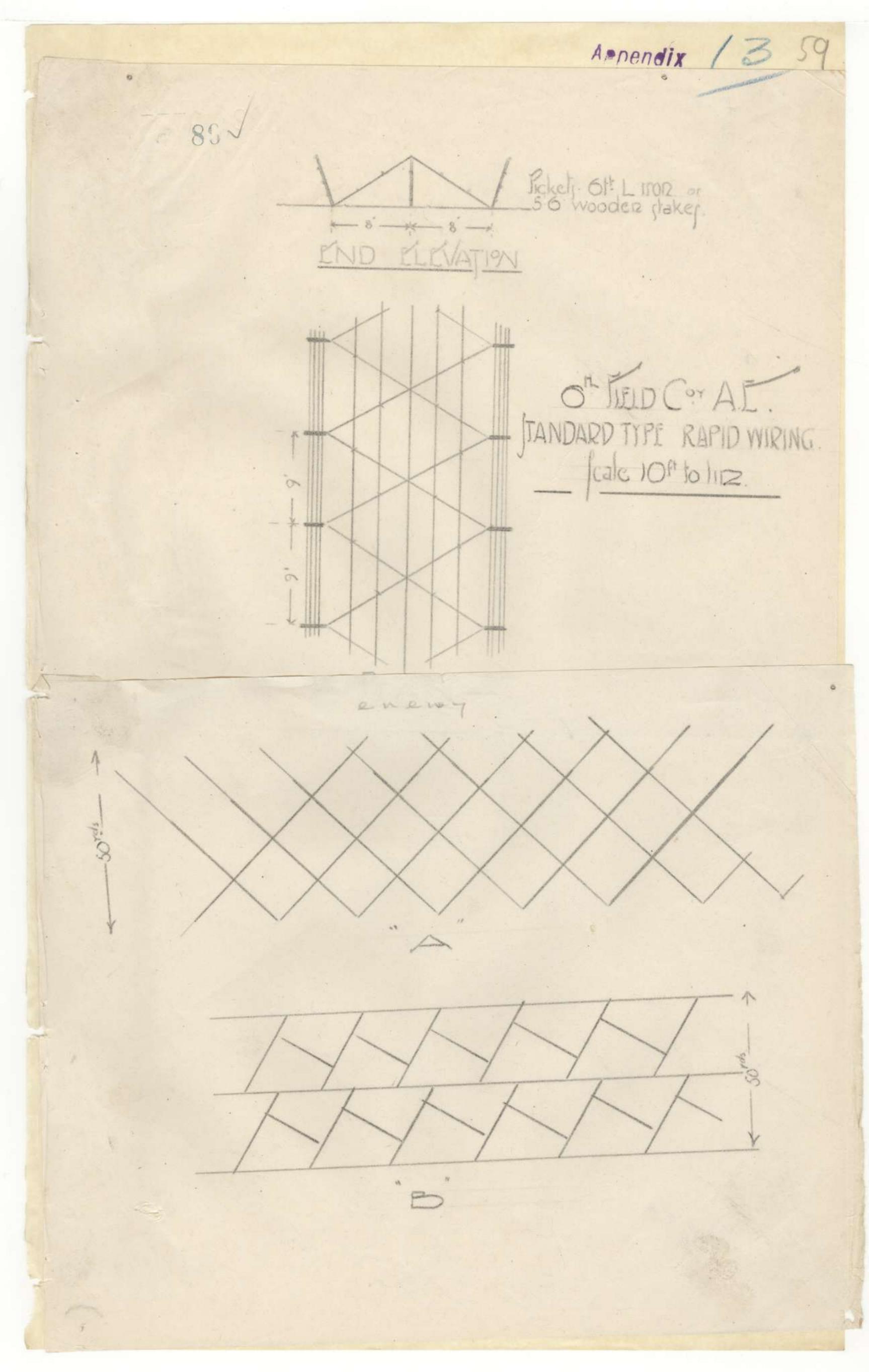
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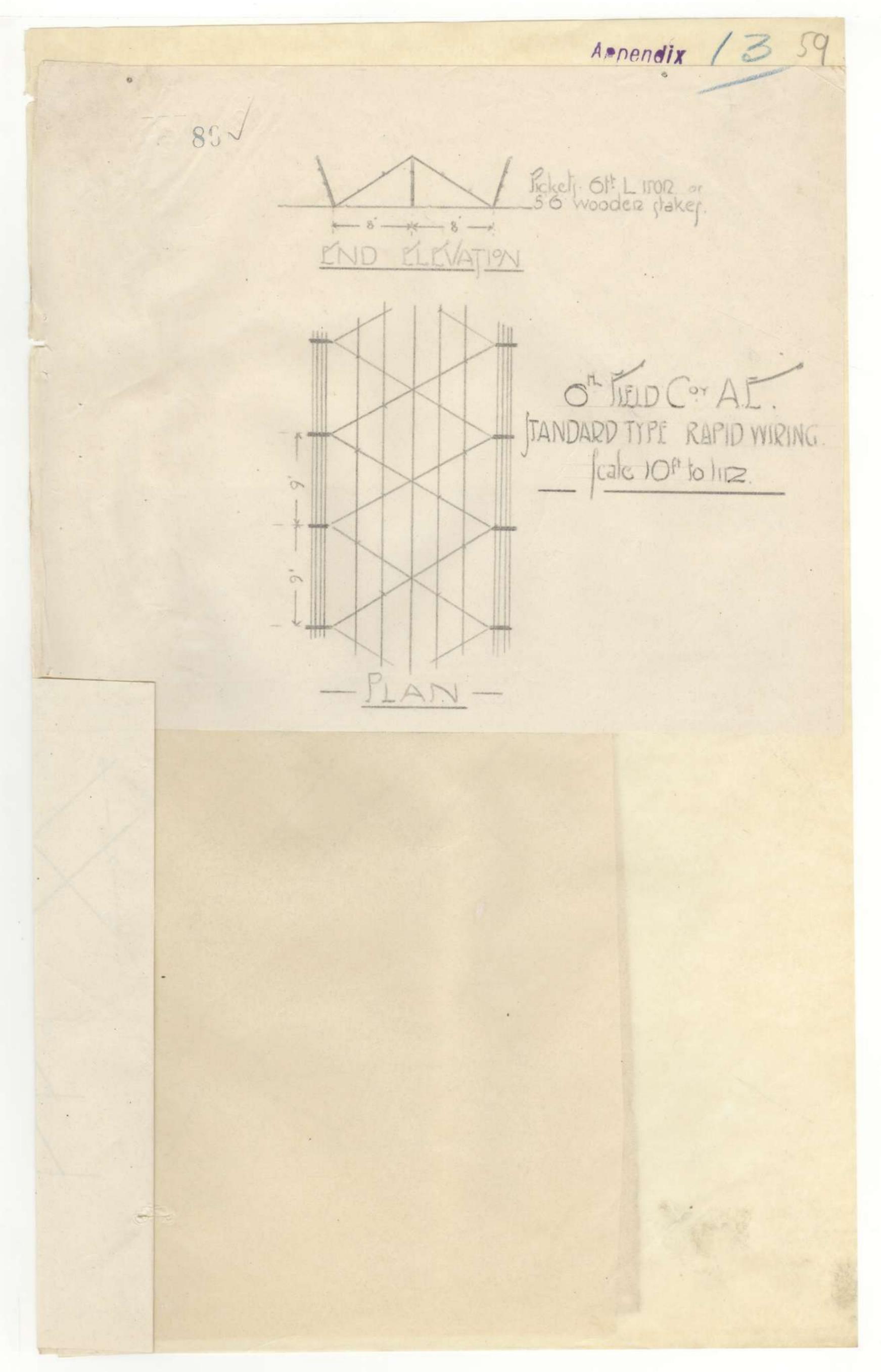
Lt. Colonel,

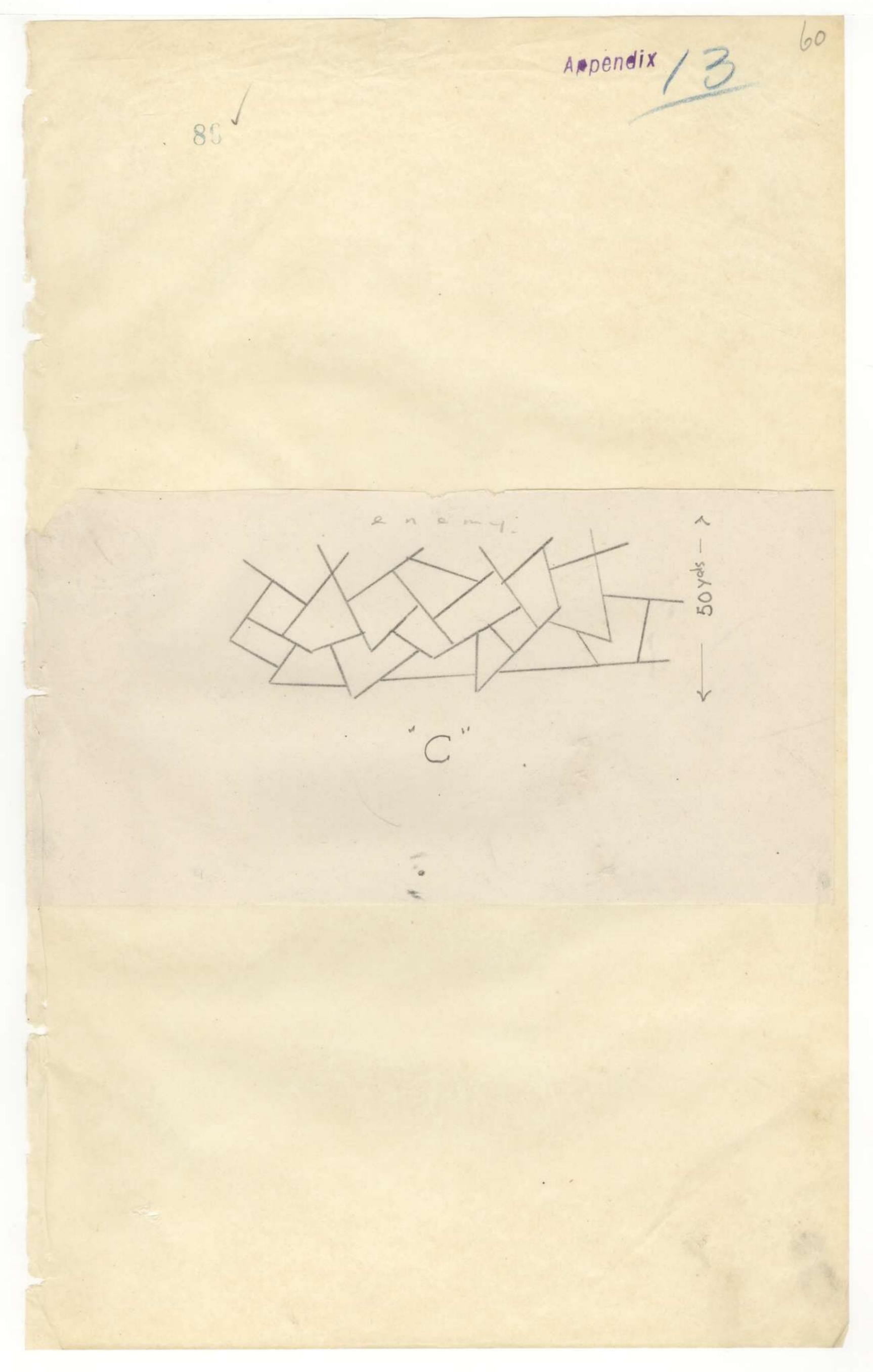
25/7/18.

C.R.E. Second Australian Division.

(Sketches (a) (b) & (c) referred to are attached)







Appendix SECOND AUSTRALIAN PIONEER BATTALION. Battalion Headquarters, July 18th 1918. TO -2nd Aust. Division. Reference your confidential memo 126/551, and particularly to para 14 thereof. I desire respectfully to point out that if the policy therein laid down is practised, a time will inevitably arrive when it will be imperative to revise the conception that now prevails as to the scope of work and duties of a Pioneer Battalion. A certain measure of success has been attained in the Australian Corps in making the Pioneer Battalions of men organised and fit to fight, and competent to carry out any of the usual field engineering works that pertain to the present campaign, including reinforced concrete, deep dugouts, M.G. emplacements, light railways, demolitions, hutting, wiring and entrenching. I know that at least three of the battalions have successfully run sawmills and technical workshops, where the manufacture of new appliances and repair of vehicles and other stores have been effected, to the advantage of the Divisions and the Corps. By the selection and appointemnt of technically well qualified officers and N.C.Os. the Pioneers have been getting near to the ideal of battalions of competent field engineers. A special feature has been made of entrenching work, and found very useful in the critical period of 'consolidation' following an advance. The works outlined above will be impossible of accomplishment to the extent hitherto practised if the reinforcements are to be the men rejected by every other arm of the Service. Eliminate the tradesmen and the result will be a labour battalion only; draw the men from the aged and physically inferior who are rejected by the infantry and there will not be even a decent labour battalion. Many of the most important tasks hitherto allotted to the Pioneer Battalion, have required not only men of constructive skill but also first rate physical condition. To take only one instance. In the operations on the BROODSEINDE ridge in October last, our men carried duckboards from BIRR X Roads to well beyond Zonnebeken doing at least two trips in the day, through country that often bogged the ammunition mules. As the distance was fully three miles, it required good men to do the twelve miles carrying a duckboard each on the outward journeys. This is just one example of the strenuous tasks that have at times fallen to the Pioneers. sgd F.W.G. ANNAND, Lt. Colonel, C.O., 2nd Australian Pionee Battalion.



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W. Diang

No. 10/121 No. 10/121 NO. 10/121 NO. 10/121

D.H.Q.

2nd Australian Division.

A.I.F. Depots in U.K., para 14.

to Pioneers will have disastrous results for the effectiveness of the latter. The medical officers responsible for classifying the men are not likely to know or realise what constitutes the work off Pioneers and will naturally have an impression that any weakling, man who cannot march stc., is fit for Pioneers.

In order to be useful and be capable of doing the heavy muscular work of digging etc. the rank and file of Pioneers should be physically strong men. They have to do more walking than infantry as they usually march anything from 2000 to 7000 yards each way to their work daily.

In order to maintain their general usefulness too, it is necessary that the proportion of tradesmen and skilled labourers should be kept up as much as possible. I think that the Field Engineers should, as prescribed, have first call on tradesmen available, but Pioneers should have also a right to select men with specially suitable civil qualifications after the requirement of Field Engineers have been satisfied.

been much more than mere unskilled labour battalian Corps have hitherto capable of handling most skilled jobs of construction, running sawmills etc. The policy proposed to be adopted in allotting reinforcements will tend to more or less rapidly bring them on to the plane of the ordinary Labour units who are not employed on either skilled or strenuous work.

Muccontette

18/7/18.

C.R.E. Second Australian Division.

Copy to :- End Aust. Pioneer Bn.

Appendix /L 60

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SECOND AUSTRALIAN DIVISION.

CONFIDENTIAL

Divisional Headquarters. 16th. July, 1918.

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126/551.

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C.R.E. ADROLDER

2nd . Aust. Div. Sig. Coy.

5th. Aust. Inf. Brigade. 6th. Aust. Inf. Brigade. 2nd AUSTRALIAN DIV

7th. Aust. Ini Brigade

2nd. Aust. Pioneer Bn.

2nd. Aust. M. G. Bn.

The following copy of circular issued by Headquarters A. I.F. Depots in U.K. is passed for information :-

"1. Reinforcements from Australia were wtill recently despatched for named Arms, and in the case of Infantry and Pioneers, for mamed Battaliens. Except in a few cases the foregoing system has been abandened in Australia, and reinforcements are now despatched as "General Reinforcements" in a separate numerical series of drafts from each State. The normal number in each draft is 150.

- 2. These general reinforcements are liable for service in any Arm or Department.
- 3. The normal procedure on the arrival of a draft of general reinforcements in the U.K. is for Headquarters A.I.F. Depots to allot the draft to, or between, Infantry Battalions in the Field and belonging to the State from which the draft comes, and the reinforcements accordingly join the Training Battelion and Company Training for the Field Battalion concerned.
- The .. individual man is permitted in Australia to express a preference for service in a particular Arm or Department. This is recorded on the man's papers, where also is recorded his having passed in riding if he has so passed. Particulars as to preference and riding will hereafter be supplied on nominal rolls to the Infantry Training Units to which the drafts are primarily allotted.
- 5. It is obvious that if nothing further were done, training units other than Infantry Training Units would ocase to receive reinforcements. The procedure set down in the following paras. hereof (6 to 17) will therefore be followed.
- 6. Artillery, Field Engineers, Signal Engineers, Machine Gunners and Divisional Signal Schools will be notified of a standard number who should be undergoing training in the unit. When the numbers under training fall below the specified number by 30 or more, the training unit will draw on Infantry Training Units for reinforcements, drawing as nearly as practicable 30 or the multipule of 30 nearest to the actual shortage. Field Engineers and Signal Engineers may also draw for shortages in tradesmen with suitable civil qualifications irrespective of the extent of the shortage.

P.T.O.

Appendix / 4

- In all cases the first men drawn from Infantry Training Units pursuant to para. 6 will be those who here on enlistment in Australia expressed a preference for the Arm or Department drawing them, provided that they satisfy provise (a) of para.ll.
- No man will be drawn for training as a driver in any Arm or Department unless he has passed in riding in Australia.
- Acting N.C.Os. (i.e., reinforcements who reach U.K. with Acting rank of N.C.O). will not be drawn in excess of the following scale :-

1 Acting Sergeant to 30 - 1 Acting Corporal to 20. .

- Substantive N.C.Os. will not be drawn unless they already 10. belong to the Arm or Department drawing them, and if drawn will be in diminution of the allowance in para.9.
- 11. Where the number available to draw from is greater than the number to be drawn after those who have expressed a preference and are qualified have been taken, those drawn are not to be specially picked out and all the best men taken, but are to be drawn as reached by the Selecting Officer subject to the following provisces in a series and M. hos . hos

(a) Machine Gunners, Field Engineers and Signal Engineers need not take any man who though 'A' Class is physically or interlectually below the average of the

(b) Field Engineers and Signal Engineers may select those with special civil qualifications irrespective of the restrictions imposed by this paragraph.

- 12. Questions of character or conduct are not to be taken into account. The same and same and second indirect
- atequal toled, are transplaced wat at the pad at at almost areas 13. Training Units with a Territorial organisation, i.e. - Field Engineers and Machine Gunners, must draw territorially for their respective territorial training companies. Attached for their information is a copy of the territorial allotment of Infantry Battalions
- Clurtona of pertitues of new Isoblylant 14. Reinforcements which arrive and appear to S.M.Os. to be below infantry requirements through age or other causes, though not classified as unfit for general service will be transferred to Pioneers as follows :-

dolds of stinues training united to FROM New South Wales - to 1st.Pioneer Training Bn Victoria - to 3rd. -do-Queensland - to 4th. -do-South Australia - to 5th. -do-W.A. and Tasmania - to 2nd. -do-

Any further transfers to Pioneers which may be required will be the subject of special instructions. elocate fenala fenotelvid has sameous

15. The A.D. of S. and T. may draw from any general reinforcements at any time, M.T.Artificers, M.T.mechanics and M.T.Drivers to numbers approved from time to time by 'A' Branch Headquarters.

16. Men with specific physical defects making them unfit for general service with combatant arms, but who are otherwise 'A'Class will be transferred to A.A.M.C.

17. Special arrangements will be made from time to time for other A.A.S.C. and A.A.M.C. reinforcements."

Second Australian Division.

Waddu!

2nd Australian Division. Reference 126/551. I think this is a logical statement of the position, recognising that someone has to suffer a loss of efficiency, that the available men must be graded and allotted in such a way as (1) to maintain the highest possible degree of efficiency in the most important branches and (2) ensure that the lowering of the efficiency of other branches should be as little as possible by careful grading of men according to degree of physical exertion and conditions of living required of the personnel of each branch. At the same time it must be recognised that there will be a lowering of efficiency which is inevitable and that the standard of the branches which suffer most cannot be expected to be up to the standard of the present or past. As the statement of the system for reinforcing Pioneers now stands I think it inevitable that those who classify the reinforcements, (unless they very clearly understand what Pioneers are expected to do), will get a false impression, and think that weaklings and men with serious physical defects may be suitably drafted to Pioneers. It should be made clear that strong sound men are necessary and that men who have not the muscular power to dig well or are not able to march will be worse than useless; also that as many men as practicable with trade training should be given to them. Lt. Colonel, . C.R.E. Second Australian Division. 23/7/18. RCDIG1006322 AUSTRALIAN WAR MEMORIAL

SECOND AUSTRALIAN DIVISION.

Analysis of work on Deep Dugouts for period 6 a.m 29:6:18 to 6 a.m. 3:7:18. (4 days only).

UNIT.	NIT. Average No. of men per shift.			Man shifts			No. shifts per week.									Average cubic footage per man per shift.		
	Saps	Infy.	Approx.	size	face.	Approx	6 x 7	face.	Appro	x.size	face.	Approx	61x 7	face.	Approx	6 x 7	face.	
5th Field Coy.	5	8	96	-	11.0	6	-	11	360		858	60	-	78	3.8	-	7.8	
oth Field Coy.	1.7	6	194	80	48	25.75	10	8	1243	889	532	48.3	89	66.5	5.9	8.9	11.1	
7th Field Coy.	2.8	2.8	105	20	226	18	5	34	506	208	1287	28.1	41.6	37.8		10.4	5.7	
2nd Aust. Pioneers.	Pnrs. 5.4	_	360	_	482	66.50	_	84.50	2749	_	5103	41.2	nil	60.4	7.6	_	10.6	
Totals and Averages.	7.	9	755	100	866	116.25	15	137.50	4858	1097	7780	44.4	32.7	60.7	5.5	9.7	8.8	

Note :- Shifts worked, 6 hours on, 18 hours off.

Totals

							Aver. No. empl	oved per 24 1	nour
5th Field Coy.	1218	cub.	ft.	206	man	shifts	Saps.	Infy.	
6th Field Coy.	2664	**	Ħ	340	#	**	19	66	
7th Field Coy.	2001	11	11	302	11	11	37.7	37.7	
2nd Pioneers	7852	11	tt	841	**	#	210 Pnrs.		
Total	13735	11	Ħ	1689	11	11			

)Work delayed by)preparations for)operations.

5th 6th 7th Field Company A.E. 2nd Aust. Pioneer Bn.

Forwarded for your information.

G.R.E. Second Another Line Division Colonel,

Appendix

SECOND AUSTRALIAN DIVISION.

Analysis of work on Deep Dugouts for period 6 a.m. 5:7:18 to 6 a.m. 10:7:18.



UNIT	Average No. Man shifts of men per week. per shift.		P	No. shifts per week.			Total cubic footage.			Average cubic footage per shift.			Average cubic footage per man per shift.				
	Saps	Infy.	Approx.	6'x 7'	face.	Approx	81Z0	face.	Appro	x. si	e face.				Approx		9' x 7'
5th Field	2.8	6.2	82	***	246	15	-	52	387	**	2047.50	50	-	64	4.7	-	8.5
oth Field Coy.	1.5	7	7	56	281	1	4	33	42	482	2274	42	108	69	6	12	8.1
Coy.	2.8	4	187	42	858	29	10	56	843.25	652	2736.50	29	65.2	48.9	8.7	15	7.8
Pioneer Bn.	5.4	-	525	-	422	118	-	72	5210		5764.50	28.7	-	80	6.1	-	13.7
Totals and Averages.	4.2		741	78	1302	155	14			1111111	12822.50				5.9	13.5	

Note: - Shifts worked 8 hours on 18 hours off.

GT.y	ni e	-04	78 J	mi
415		3	2	3
dillin	distant	-	ubries.	-

1	1		Aver. No.employed	per 24 hours.	
5th Field Com.	2484 cub.ft	528 man shifts	Saps. 19.6	Infy.)Changed
6th " "	E721 # #	5/24 # #	10.5	49) ever.
7th " "	4211.75" "	E22 " "	19.6	28	
and Pioneera	8974.50. # #	967 # - #	135 Phrs.		
Total	18,541.75 " "	212/1 # #			

5th 6th 7th Field Company A.E. and Aust. Pioneer Bn.

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Weekly Dugout Report - Week 3:7:18 to 10:7:18.

1.	2.	3.	4.	5.	6.	-	7.	8.	9.
Descriptn.	Location			for week	feet excav	men shif	per t	ft per	Remarks re progress.
Mined D.O. No.92.		9'x7'	14	4'	252	2			
ADS Nº107	NaTe22	6'x 3' 9'x 7'	7 8	11'6" on 2 face	w 207 0 441	2	6		4 shifts making winch rails? 2 shifts do
M G Dugant		2 spor	6 l rer	nove		Aca		ugo	bleaned up spool left in D.O. Infy flarty for one day only lesceawation complete Bunking commenced
RAP MINED Dugunt WOTT	* 5 5 6	9'87	' 10	10'6	" 661	3. 2	2	5.	Drive broken through

6th Field Company A.E.

Weekly Deep Dugout Report for week ending 6 aam 10/7/18.

1	2	3	4	5	6	7	8	9.	
Descriptn.	Location	Size of face	6 hours shifts for week	Advance for week Lin. ft.	Cubic feet excav ated.	No. men per shift. Sap.Inf	feet	nemarka	
Extension to 26th Bty AFA. D.O.	0.27 @ 70.75	7'x7'	4.	8'	432	1 8		Serial	99
Mined D.O. for 1605 ty RGA	0.15 b.8.8.	3'x7'	3 8	{2',	42 252	1 6		•	6.3
RAP Weep.	0.24005.25	96 x 7	6 14.	16'	1140	2 - 6	•	"	77
RAV Deepe D.O.	N27.02.2.	9'6"x7	'L' 12	12	855	2.8		" /	07

WEEKL	Y	DUGOUT	RE	PORT!	eld Coy	Aust.	Engir	leers.		ENGINEERS, A.I.F. Wek Ending Cam 10/7/18
	-	2	3.	4	5	6			CALL THE PERSON OF THE PERSON OF	No. 244/64 9
Description & Serial Number		Location	Size.	Shifts	Holyance for Week.		No of m	rifh	Cubic fr per skift	Remarks. re. Propress.
			-	Week	The state of the state of	the company of the company of	and the same of the same of	104	Average	
		0.34 C 50,05		Appropriate to the second second	13	. 760	2.	4	38	Propress 2000 - chark rather bod - stairway dug
ditto	" 84	0.35.0.1.4	66 × 3	3	76	1464	2	4	49	" pood chalk
ditto	84	0.35 d. 1.4	66"x9"	13	19'3"	1126	2	5	862	" excellent, chalk good-only short carry with spoil
ecommodation	* 1218	0,25.0.1.5	7'x6	3	4	168	3	- 1	56.	Salphere working as eas picquer - details etz.
renal. Cabin.		0.28.6.8.5			3'6"	12-6	2	3		Chark bad - breaking out from narrow passage.
attn. HQ.	" 27"	0.26.6.8.8	9' 17'	16	10	630	1	6	3912	Inf parties continually being taken off to "Stand To"
ield Coy H.Q.	" 52	0.25.437	9'27'	7	3'6"	2201	cletciils.	when avail	able. 31	
oy. H.Q.	11 85	P 25.6.25.70	5.6" x 3'6"	7	9'9"	188.	5	Sshifts	27	
ecommodation	117-1	0.25.4.0.5	5 6" 43 6"	5	69"	12-9	4	-	25	
Double Coy. H.Q	*136	5° 0.30.00.25	6.6"X	6	69"	153	1 1	rsshifts rishift	25	
ditto		11 14	66"+36"	5	5 3"	119	2 1		1 shift	
Boy. HR Extensi	on	0.30630.25		3	8'	338	3-	2 Shift	112	also 3 bunks \$ 2 strengthening einders
D /			6×3	3	6	108	7	-	36	
Bunking					11	L. K.		9		plete) plete)
	97	0,27.6.3.4	-				erected	& wirec	-	lero)
M.G. dugout	, 6	0.32.081	-		18	As "	11	**	(Com	blete)
M.G. dugaut		T. 6. b. 1. 2	-		18	11	"	11	(Com	picre)
irtulery, HQ:		T. 6.6.1.7			9	11	1)	"		
a of								>		for. 0.6.7th Fried boy Aust Euro English

AUSTRALIAN WAR MEMORIAL

	BEKLY DEEP D	IGOUT KEPORT TO SECOR	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		BATTALION.	: 18 to 6	8.8. 10: 7:	13.
1.	2.	3.	4.	5.	8.	7.	9.	9
Description.	Location.	Size of face.	6 hour shifts per week	Advance for week L. Foot.		No. of men per shift.		Remarks re progress?
i.G.Position.	0.34.a.7.1. 0.34.a.7.1.	5*8"x 3*6" 7' x 3*6"	82	11'8"	231	4	38.5 42.5	
.G.Position.	0.85.d.0.8.	5*8"x 3*6"	28	25 *9*	530	4.75	19.4	On Stb & Oth work delayed owing to enemy shelling.
latoon Dugout.	D.24.d.2.3.	9* x 7*8*	28	31.0*	2126.25	4	76	5 men carrying spoil per shf
latoon Dugout	0.80.b.4.7.	9° z 7*6"	20	24*	1620	4	81	5 men carrying spoil per shft
os. Arty D.O. 3	0.19.d.5.8.	9 * x 5 * 9 *	19	30*	1785	10	92.3	
ccom. Dugout.	D.18.d.0.7.	9 * x 8 *6"	5	4*6*	263.25	8	52.55	
poom Tomont A	00 100	EFAR - OFOR	20	and the second	***			

0.28.b.9.3.

2nd Australian Pioneer Sattalion.

AUSTRALIAN WAR MEMORIAL

No. 1 Drive.

No. 2 Drive.

SECOND AUSTRALIAN DIVISION.

Analysis of work on Deep Dugouts for period 6 a.m. 10:7:18 to 6 a.m. 17:5:18.

				7-11											NAL ENGLA	JISINIA 8800	
UNIT.	of me		Mai	n shift			No. of shifts per week.			Tota cubic fo		The state of the s			cubic footage per man per shift.		
	Saps.	Infy.	Approx	K. Size	face.	7'x 3'	ox. siz	9 x 7	Appro	S'x 7	face.	Approx	.sizefa	00. 9'x7'	Approx	size f	9'x 7'.
Goy.	5.7	4.3	120	42	91	12	6	15	486	156	850	40.5	26	65.4	4.1	5.8	9.3
6th Field Coy.	1	4.5	16	10	40	8	2	10	189	105	504	23.6	52.5	50.4	11.8	10.5	12.6
7th Field Coy.	3.3	4	180	9	192	45	1	24	1088	108	992	24.2	108	41.5	6	12	5.2
2nd Pion- eer Bn.	Pars.	An .	300		814	37.5	-	66	1554	-	4586	41.4	46	69	5.2	-	14.5
Totals &	7		616	81	657	102.5	9	115	3317	569	6912	52.4	62	56.5	6.8	8.8	10.4

Note: - Chifts worked 6 hours on 18 hours off.

Totals. Average No. employed per 24 Hours. Infy. Saps. 5th Field Coy. 1492 oub. ft. man shifts 6th Field Coy. 7.7 7th Field Coy. 24.6 2nd Pioneer Bn. 88 Purs. 6120 614 Total 10598 1314 19 32.7

work delayed by operations and Pioneers were withdrawn from dugout work to construct ferward communication trenches.

Field Coys.

5th 6th 7th Field Company A.E. 2nd Aust. Pioneer Bn.

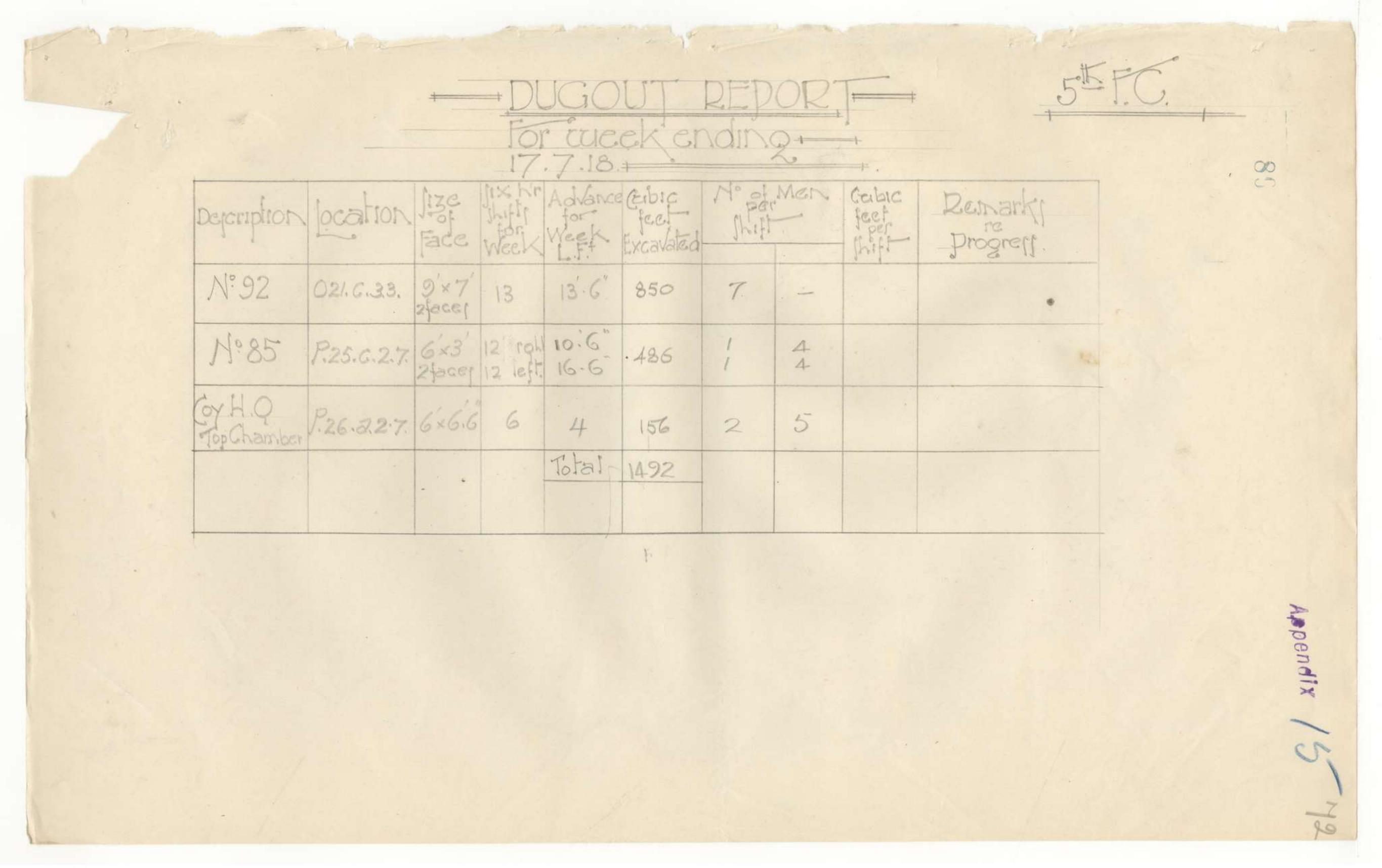
the service was not too too and not not not see that one the not not not not not too too the not not not not too too.

For information.

Lt. Colonel,

ancente.

C.R.E. Second Aus ralism Division.



AUSTRALIAN WAR MEMORIAL RCDIG1006322

11/	111 77	1	Tie	1d. Co	by Hus	T. E	no	PS.	ENGINEERS, A.I.F.
YVO	ekly bug	ou!	nep	port				10	6.9m 111118
Description	Location	Size	Chifto per K	Lover L. Ft.	Cubich	hor of	Timen	Course of average	Remarko
Nº2 136. Double Coy 4	2.0.30.d 00.28	66"×36"	98	12/1	273	37 3	or 3 shi	30	
Nº 121. Extension	0. 25.0.0.5	66" x36"	10	4,5	91	3 3		9	Long carry with spoil
No 15 . Batto HQ. Signal Cabin	0.28.6.8.5	6' x 6'	1	3'	108	2	7	108	Poul Curry with short
Nº 27 Bn. H.Q	0.26.6.9.3	9' x7'	6	4-	252	1	6	42	Completed - (bunking not completed - eas
Nº 136. Double. Coy. H.Q. Nº 52. Field. Coy. H.Q.	0.30.0.00.25	7'×3'	11	16'	336	4	2	30.	Casalukop domlorate?
NR 84 Coy. H.Q	0.35.0.1.4	9' ×7'	3	12	95	5.			Work. Suspended
No se o al o	**	9'x6.6" 8 x3'	4	4 2	234	45	18	332	
Nº 15 Coy, H.Q	location - U. 4. a. s. q)	9'x6'6"	1	1	60	3	10	60	Taking off corner at junction Cleaning out chamber
		11	3	2	117	4	**	39	Breaking through to other chamber tehifts in cleaning - gas proofing etc
					2188		1		Hierd Company. A.E. Captain.

AUSTRALIAN WAR MEMORIAL RCDIG1006322

SECOND AUSTRALIAN PIONEER BATTALION.

WEI	CKLY DEEP DUC	OUT REPORT TO	ACCOMP ANY	PLANS.	Week 10: 7:]	18 to 17:	7: 18.	
Description.		Size of face.		Advance for week.	Cubic Feet Excavated.	men per	Cub. Ft. per shift.	Remarks re progress.
1.	2.	3.	4.	5.	6.	7.	8.	9.
	0.24.d.2.8.	9 * x 7 *8"	23늄	21'6" .	1451325	4	63	7 men carrying spoil per shift
Conial No. 104	0.30.b.4.7.	91 x 71611	23월	29 16"	199125	4	85	10 men carrying spoil per shift
Res. Arty D.O.	0.19.d.5.8.	9° x 6°6"	5	7.1	409.5	8.4	81.9	
Serial No. 35 M.G. Emplacement Serial No. 79	The state of the s	6 * x 2 * 9 * 3 * *	5 8 .	9*	409.5 148.5 190.12	10 7.5 7	29.7 23.76 35	
M.G. Dugout.	0.84.a.7.1.	7' x 3' 5'6" x 3'3" 7' x 3'6"	14.5	35'6"	634.58	8 8	45 42.87.	
Accommodation D.O. Ser.No.126	0.28.b.9.3.	THE R. LEWIS CO., LANSING, MICH. LAN	14	11*4"	714	6	51.	

6120.18

apracuem

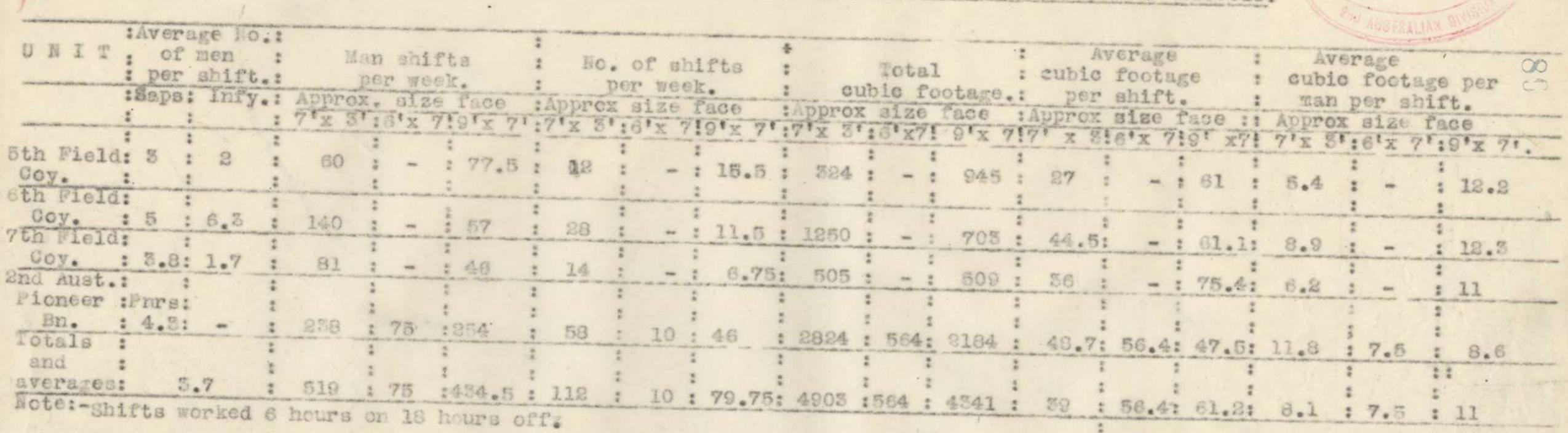
2nd Australian Pioneer Battalion.

Capt. & Adjt.

Appendix 15

SECOND AUSTRALIAN DIVISIOE.

Analysis of work on Deep dugouts for period 8 a.m. 17:2:18 to 6 a.m. 24:7:18.



Sotals.

1	The same of the same of the same of		Part of the control o	-				
· UHIT.						:Aver. No. employ	ed per 24 hou	ma:
:Sth Field Coy.	1080	auhia F	4 4 1000 70			: Sappers	Infantry.	
:6th # #	1955	N H	1 300) man	shirts		: 8	:Work delayed by
:7th " " :	1014	11 11	1 127			18.4	: 15.7	:change over of 6th
:2nd Ploneer Bna:	5579	11 11	: 567	10	**	12.6	: 5.6	:and 7th Coys. and >
		And the latest device the latest device the latest devices the latest	:	Contraction of the Contraction o	-	81 Phrs.		:also by enemy gas ?
: Total :	9808	B 41	: 1028.5	- 89	11	29.5	. 0 0	:bombardment of
	A STATE OF THE OWNER OWNE	the state of the state of the state of	The state of the s	A CANADA STATE OF THE STATE OF			* U o Cl	:forward areas. 3

forward areas. Infantry labour very short.

VISIONAL ENGLE

5th 6th 7th Field Company A.L. 2nd Aust. Pioneer Bn.

Forwarded.

AUSTRALIAN WAR MEMORIAL

Amondix 15 Meetly Deep Dugout Report. 6 am. 17.7.18 to 6 am 24.7.18 Beryt. Int. Chalk- easy. 1º92 0.21.0.3.3 2/acto 152 · Work delayed on several occassions P25.C.17 owning to enemy gaz. 1269. change over warnated clay.

Weskly Dugout Report			IOF				July 1918.
1 2	3	4	5	6	7	Ö	9
Srl.	Size of ace.	No. of 6-hour shifts	for .week. L.fest.	Cubic feet excvtd	No. of men per .shift. Saps. Inf	feet per .shift Avge.	REM ARKS.
121 Extension of D.O.		4	of t	114	4 -	28.5	Chark - Tong
1st sht- 0.25.d.0.5. 121 -do- 2nd shft:	5.0.	2	3f t	68	4 -	34	-do-
Accomodation N. 22.d.4.9.	9'x7'	3	219"	173	4 -	58	Chalk - easy
	9'x7'	1 5	10" 6ft	127	4 - 4	. 5 2 25	Chalk. Working party only avaiable
15 Recess in 0.28.c.8.4	.616"x	1	2f t	42f t	2 3	42	2/3rd of time. Chalk.
tunnel Bn.H.Q.	6'6"x		(619"	154)4 3	92	Work expedited - urgent.
0.30.d.00.	O V V VV	1	(416"	284	<u>'</u>		

THE FIELD COV					ach 1	Mesto	- Soil

AUSTRALIAN WAR MEMORIAL

SECOND	AUSTRAL	IAN PIUMBER	BATTALION.
10-49-60-19-4	中华特别的公司	计格益价格价格等的格格 符	特特斯特特特特特特

2ND AUSTRALIAN PIONEER, BATTALION.

WEEKLY DEEP DUGOUT REPO	HT TO ACCOMPANY PLANS.	Week ending 6 a.m. 24: 7: 18.
-------------------------	------------------------	-------------------------------

								-
1.	2.	3.	4.	5.	6.	7.	8.	9.
Description.	Location.	Size of face.	S hour shifts for week.	Advance for Week.L Ft.		No.of men per shiff:		Remarks re progress
M.C.Emplace- ment.Ser.No.79		71 x 313" 91 x 71	20	21	473 630	4.8	23.9	Very hard. Chalk.
M.G.Dugout. Serial No.90	0.34.a.7.1.	5'6" x 3'8" 7' x 3'8" 5'6" x 8'8" 5'9" x 7' 3'3"x2'9") x 3'	9.5	7'6"	304 170.8 179 583.5	4.7 3.7 3.3 7.5	32 24.37 59.8 53.35	Clay. Clay. M.G.Emplacement.Clay 9'x 7' chamber less 3'3" already taken out. Clay. M.G.Recess. Clay.
Accommodation D.O.Serial No. 126.		9" x 7"	27.5	24*8"	1554	8	58.5	Fairly good, chalk.
Double Bn.H.Q. Serial No.143	0.38.b.88.20	71 x 313"	17.5	68'	5572	3	95	spoil per shift-21 ft.of excavation was of the lavel into bank.Remainder 1 in 1 slope. Soft load.
					5572			

and Australian Pioneer Battalion. Capt & Adjt

appendix 15 SECOND AUSTRALIAN DIVISION. Analysis of work on Deep dugouts for period 8 a.m. 24:7:18 to 6 a.m. BI:7:18. : Average No: Average U R I T: of men : RVOTERE Man shifts No. of shifts Total : cubic footage cubic footage per per anift.: per week. per week. cubic footage. : per shift. man per shift. Saps.: Infy: Approx. size face : Approx. size face. Approx size face : Approx size face : Approx size face. 7'X 8':6'X 7':9'X7! 7'X 8':6'X7':9'X 7': 7'x 5':6'x 7! 0'x 7!7'x 8':6'x7'9'x7':7'x5':6'x 7':9' x 7' oth Field: 2.5 : 2.5: - :25,25 1009 : 23 -: 45.4 : 5.4 : :10.4 oth Field: Coy. : 2.1 : 6.2: 108 151: :1508 : 35.4 : -:108 :10 oth Field: Coy. : 10 : 5.5 714: --:180 :15 and Pion-: Pnrs. : eer Bn: 10 356 : : 198: :51 5494 1858 : 61.8 : :10.4 - 1 60 Totals &: Averages: 5.6 609 : --: 498: 100 - :75.75 : 4826 : Note: - Shirts worked a nours on is nours off. Totals. UNIT Aver No. employed per 24 hours : Sappers. Infantry. :5th Field Coy. 1851 cubic feet: 14.5 14.5 :Work delayed by gas :6th 1508 11,5 :bombardments in :7th 714 :forward area. Inf-:Pioneers 331 :antry labour very :short. :Total 27.5 5th 6th 7th Field Company A.R. 2nd Aust. Pioneer Bn. melation Ferwarded. Lt. Colonel, C.R.E. Second Australian Division.



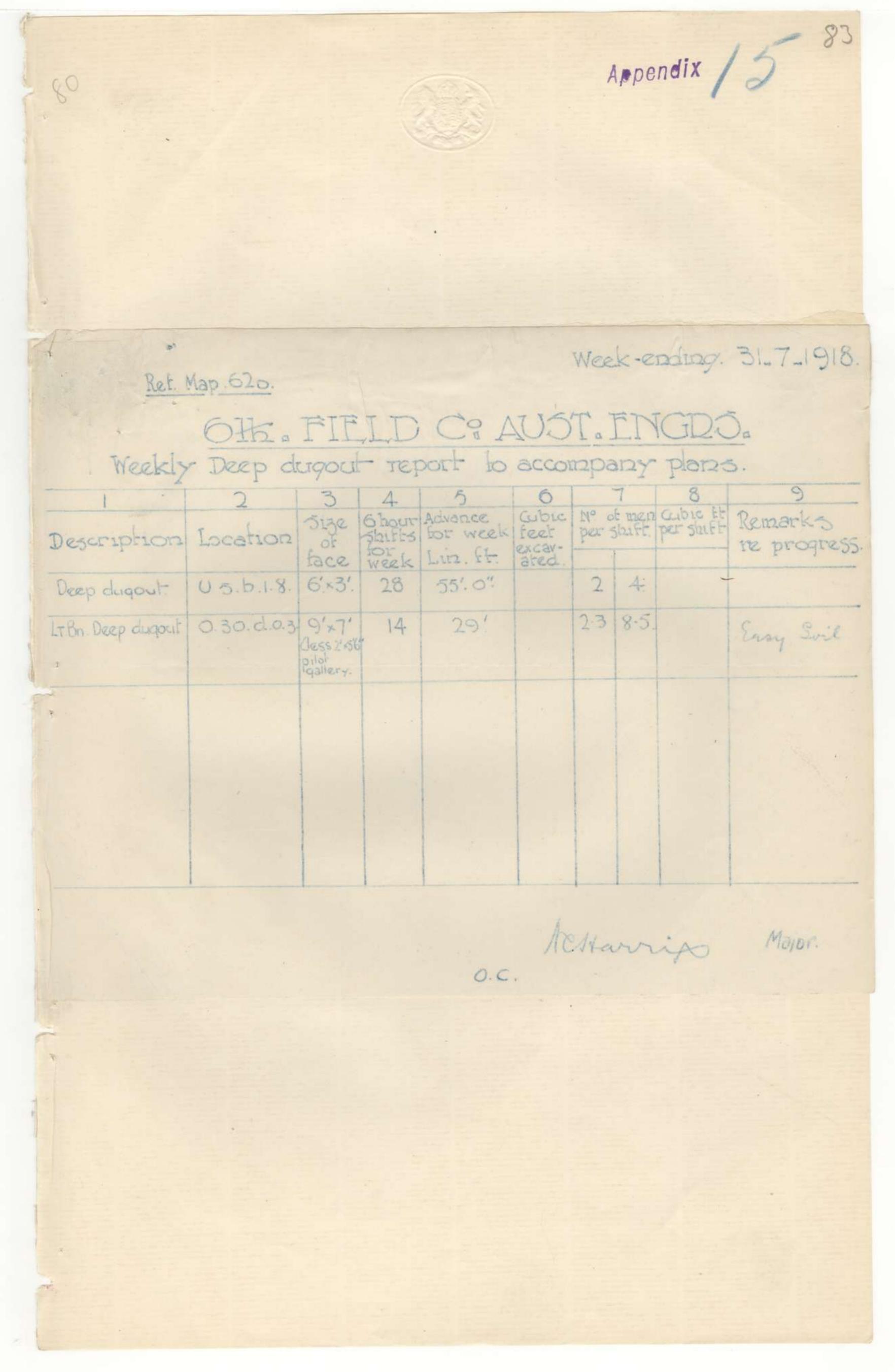
5th Field Company A.E.

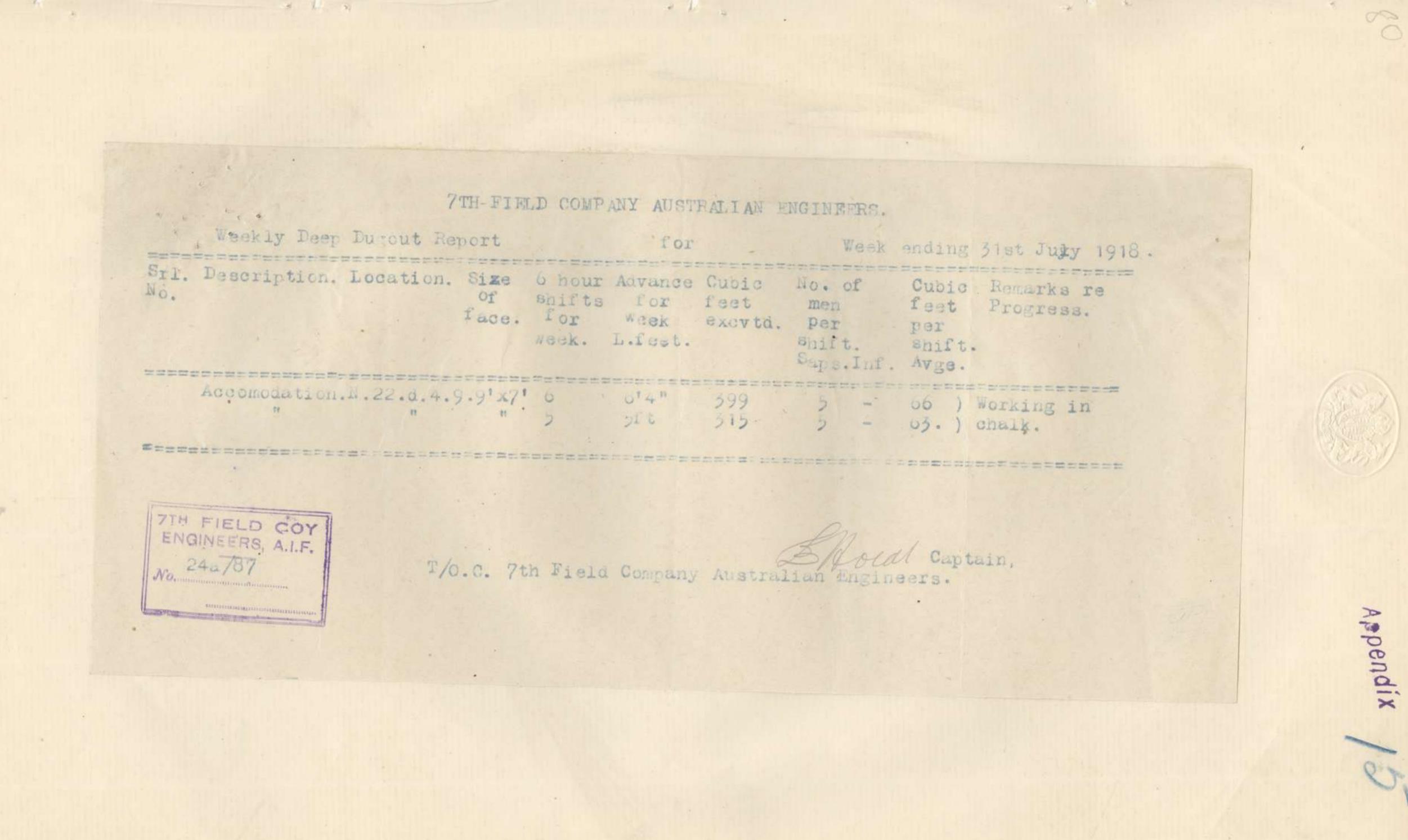
WEEKLY DEEP DUGOUTS REPORT - 6 a.m. 25:7:18 to 6 a.m. 31:7:18.

1.	2	3	4	5	6	7		8	9
Descrip	t Locatio	n Size of face	6 hour shifts for week.		Cubic feet excav ated.	No. men shif	per	Cubic feet per shift.	Remarks affecting pro-
85	P.25.c. 2.7.	6'x 5' 2 faces	15	19*	342	Sap.	Inf.		Gravel and clay
		9*x 71	4	31	189	1	4		Night 26/27th delayed by enemy action.
92	0.21.0.	9'x 71	7/4	496"	284	4	-		Chalk. Fair
		9'x 7'	12	8'6"	536	4	_		ground. Cover 20'.

o.c. 5th Field Coy.

Major,





AUSTRALIAN WAR MEMORIAL

SECOND AUSTRALIAN PIONEER BATTALION.

LEKLY DEEP	DUGOUT REP	ORT TO ACCOMPAN		* * * * <u>W</u>	eek 6 a.m.	24:7:18 to	6 a.m. 31:7:18.	
1.	2.	3.	4.	5.	6.	7.	8.	9. Pale Land
Description.	Location.	Size of face.	6 hour shifts per week.	for week L. Ft.	Cubit ft. excavated	No. of men per shift.	Cubic feet per shift. Average.	Remarks re progress.
M.G. Emplacem't Serial No.79	0.35.d. 00.80.	9' x 7'	3	3'6"	220.5	8.3	73.5	Very hard chalk.
M.G.Dugout. Serial No.90.	0.34Wa. 65.10.	5'6" x 3'3" 5'6" x 6'6"	1 3	1'5'	17.9 178	2 6.3	17.9 59.3	Clay. Emplacement.
Accommodation .O. Ser.No.126		9' x 7'	28	26 1	1638	6.1	58.5	Fairly good chalk.
Accom. Dugout Serial No.163	P.25.b. 7.8.	7' x 3'3" 6'6"x 3' 5'6" x 3'3"	12 4 10	21.5 5.5 36'	489.12 107 643.5	8.4 5 11.2	40.76 26.75 64.35	Loam.
Double Bn.H.Q. Serial No.148		7' x 3'6" 7' x 3'6" 7' x 3'6"	28 28	24 29 31	588 710 759.5	1 1	25 27	Left entrance. 4 men carry ing spoil per shift. Middle entrance. 3 men carrying spoil per shft. Right Entrance: 3 men carrying spoil per shft. Class of soil from loam through gravel and chalk

2nd Australian Pioneer Battalion. Capt. & Adjt.

AUSTRALIAN WAR MEMORIAL

2ND