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RE/04/5

ENGINEER INTELLIGENCE

Dec. 1944 - July 1945

104/5

ENGINEER INTELLIGENCE

Dec. 1944 - July 1945

(6332
6276)

SPECCHIO DEI PONTI DI CIRCOSTANZA ESISTENTI NELLA ZONA ASSEGNATA AL DIP. DTC. MISTO

COORD.	STRADA N° Route N°	CLASSE Class.	LUNGHEZZA mt. Length (metres)	CARREGGIATA mt.	LAVORI OCCORRENTI	MATERIALE OCCORRENTI
J 9369	11/1 Autos.	24	105	4	---	---
K 8179	idem	70 one way 40 a 1 via 40 a due vie due vie	45	5	Necessary to complete	---
J 9563	11	12	192	3,80	occorre completare il tavolato di usura (esistente per metà del ponte.)	400 sq metres of 5 cm m ² 400 di ta da cm. 5 Kg. 150 di el da cm. 10. 150 Kg. di 10 cm
K 7008	9	70 one way 70 a 1 via 40 a due vie 40 two way	15	6	---	---
K 5717	10	---	---	---	---	---
K 7207	9	70 one way 70 a 1 via 40 a 2 vie 40 two way	16	6	---	---
P 8894	9	idem ditto.	18	6	---	---

P.M. 155 11 18/7/1945

COS
SATE
Maha
teriAt p
over a
a tank
finish
with

NOTI DI CIRCOSTANZA ESISTENTI NELLA ZONA ASSEGNATA AL 1° BTG. LISTO CERPO

13

LUNGHEZZA mt. <i>length (metres.)</i>	CARREGGIATA mt.	LAVORI OCCORRENTI	MATERIALE OCCORRENTE	NOTE
105	4	---	---	---
45	5	Necessary to complete (exists only for half of the bridge)	---	---
192	3,80	occorre completare il tavolato di usura (esistente per metà del ponte) =	400 sq metres of 5 in planks. m ² 400 di tavole da cm. 5 Kg. 150 di chiodi da cm. 10. = 150kg of 10cm nails	---
15	6	---	---	---
---	---	---	---	Attualmente il transito avviene su di una diversione con guado. Un'impresa civile sta costruendo un ponte di circosistanza che probabilmente sarà finito entro una settimana. Saranno date le caratteris. non appena ultimato
16	6	---	---	---
18	6	---	---	At present passage is made via a diversion over a ford. A civilian firm is constructing a temporary bridge which will probably be finished within a month or so. It will be supplied as soon as completed.

SERVIZIO DEI "BAILEY BRIDGE" ESISTENTI NELLA ZONA ASSEGNATA AL 1° BATTAGLIONE 215° ARMI

COORD. <i>Map Ref.</i>	STRADA N°. <i>Route</i>	TIPO	LUNGH. mt. <i>Length.</i>	CLASSE <i>Class.</i>	LAVORI OCCORRENTI <i>Work necessary.</i>	MATERIALI OCCORRENTI PER I LAVORI <i>Material necessary.</i>
A 5402	45 B	B/S	39	12	<i>Lengthening of ramp.</i> <i>ALLUNGAMENTO RAMP.</i>	—
E 421	36	E/S	9	40	<i>changing of one roller</i> <i>e cambio di un</i> <i>pantone</i>	1 Roller. 1 pantone
P 1754	45 B 13	E/S	51	12	Sostituzione di parte del tavolo to di usura	6000 metres of 5cm plating Tavole di cm. 5 mq. 60 Punte di filo di ferro da cm. 10 Kg. 30
K 1933	35	—	—	—	—	30 kg of 10cm spikes
K 7008	9	—	—	—	—	—
K 4717	10	B/S	78	12	—	—
K 7112	9	—	—	—	—	—
L 0288	9	—	—	—	—	—
L 1732	9	—	—	—	—	—
P 9392	9	—	—	—	—	—

Per preservare il materiale dalla ruggine occorrono:

to preserve materials from rust the following are required

Vernice all'olio Kg. 350 - 350
Pennelli n. 90

P.A. 155 11 28/7/1943

ESISTENTI NELLA ZONA ASSEGNATA AL 11° BATTAGLIONE? ISTO GENIO

Mt.	CLASSE	LAVORI CONCORRENTI	MATERIALI OCCORRENTI PER I LAVORI	S O T T
N.	blaz.	With necessary lengthening of ramp. Allungamento rampa.	Material necessary.	
12				--
40		9 changing of one plank e cambio di un puntone	1 Raket. 1 puntone	--
12		Sostituzione di parte del tavolo to di usura	60 sq metres of 5 cm plating Tavolo da cm. 5 sq. 60 Punto di filo di ferro da cm. 10 Kg. 30 30 kg of 10 cm spikes	--
				(1) Has been substituted by a temporary bridge E' stato sostituito con un ponte di circostanza.
				E' stato sostituito con ponte di circostanza. as (1).
				The Bailey Bridge has been ripiegato perchè ricostrui- ta la struttura preesistente.-
				Bailey bridge Bridge has been taken up the because the previous structure has been reconstructed

As routine occurrence:
 You trust the following are requested

Vernice 21' 2110 Kg. 350 - 350 Kg Oil Varnish
Pennelli n. 90 90 Brushes.

Schedule of Improved Bridges in Area allotted to 81st Eng Combat Group

Unit Ref.	Route #	Classification	Length	Width of Clearing	Work Required	Materials Required	Remarks
J 9866	11/11 (Indan 50, do)	21.	335 ft.	13 ft.	Nil.	Nil.	-
K 8179.	"	To one-way 40 two-way	147 ft.	16 ft.	Nil.	Nil.	-
J. 9303.	11.	12.	630 ft.	12'6"	Surfacing needs completion At present exist only on half length of Br.	4500 ft. Super 3" boarding: 400 lbs 4" nails.	-
K 7008	9.	To one-way 40 two-way	58 ft.	20 ft.	Nil.	Nil.	-
K 5717.	10.						Temporary br. construction by to be completed Details will as ^{br} ^{is} completed
K 7207	9	To one-way 40 two-way	52 ft.	20 ft.	Nil.	Nil.	
P 8894.	9.	"	59 ft.	20 ft.	Nil.	Nil.	

Unimproved Bridges in Area allotted 13 51st Regt. Engrs. Legname

Length Bridge in Area
Group

Width of Bridge
Required

Materials
Required

Remarks

33 1/2 ft. 13 ft. Nil. Nil.

147 ft. 16 ft. Nil. Nil.

630 ft. 12' 6"
 Surfacing
 Needs completion
 At present exist
 only on half
 length of Br.
 4500 ft. Super
 3" boarding
 400 lbs 4" nails.

58 ft. 20 ft. Nil. Nil.

Temporary br. at present under construction by civilians is expected to be completed within a week. Details will be forwarded as soon as ^{br is} completed.

52 ft. 20 ft. Nil. Nil.

59 ft. 20 ft. Nil. Nil.

Schedule of Bailey Bridges in Area Allotted to 51st Engr. Bn., Legnano Bomb

Map Ref.	Route No.	Type	Span.	Classification	Maintenance Wk. Required.	Materials Required.
A5402.	45 B.	D/S.	130 ft.	12.	Lengthen Ramps Require lengthening.	
K 4208	36	S/S	30 ft.	40	(a) Ramps Require Lengthening. (b) One damaged Rake requires re- placing.	
F. 1724.	45 B 13.	T/S.	160 ft.	12.	Surfacing Requires Replacement.	750 ft super 3" plank, 75 lbs 4" nails.
K 1933.	35.	-	-	-	-	-
K 7008.	7	-	-	-	-	-
K 4717.	10	M/S.	260 ft.	12.	-	-
K 7802 L 0288 L 1782 P 9392.						

y Bridges in Area Affected to 51st Engrs. Co., Legnano Bombard Group.

type.	Span.	Classification	Maintenance Wk. Required.	Materials Required.	Remarks.
1/5.	130 ft.	12.	Lengthen Ramps Require lengthening.		
1/5.	30 ft.	40	(a) Ramps Require lengthening. (b) One damaged raker require re- placing.		
1/5.	160 ft.	12.	Surfacing Requires Replacement.	750 lbs super 3" planking. 75 lbs 4" nails.	
-	-	-	-	-	Replaced by Improved Br.
-	-	-	-	-	Ditto.
1/5.	260 ft.	12.	-	-	-
{ Existing damaged Br's. Reconstructed, and Bailey's Removed.					

Area Affected to 51st Engr. Bn., Legnano Bombard Group.

Classification Maintenance Wk.
Required.

Materials
Required.

Remarks.

12. ~~Lengthen~~ Ramps
Require lengthening.

40 Ramps Require
Lengthening.
(b) One damaged
Ramp require re-
placing.

12. Surfacing Requires
Replacement. 750 ft super 3" planking.
75 lbs 4" nails.

Replaced by Improved Bt.

Ditto.

12.

{ Existing damaged Bt's.
reconstructed, and Bailey's
Removed.

File - Bridge 12

Subject: Removal of Treadway Bridge.

52 British Liaison Unit,
COMF.

10 July 45.

To: HQ LEXIANO Gruppo.
SORS.
A/C.
Camp Comd.

The following signal from HQ 2 District dated
9 July 45 is forwarded for information :-

" QS/309 (.) Restricted (.) Class 40 Treadway
bridge across PO at FIACCEA K6217 route 9
removed 7 July 45 (.) Civilian class 12
floating bridge available at this location
(.) All traffic over class 12 will use route
35 and 10 crossing PO on Treadway bridge south
of PAVIA K1624. "

118
Lieut-Col.

for M. H. Lock
Major
6528

Subject: Closing of FIACENZA Bridge.

52 High Mission Unit,
CMB.

11 July 45.

6/49/50

To: HQ LEXINGO Gruppo.
SCPT.
A/G.
Camp Comd.

Further to this HQ letter 6/49/50 dated 10 July 45, the following HQ 2 District signal SD1/1506 dated 11 July 45 is forwarded for information :-

" SD1/1506 (.) Restricted (.) The FIACENZA br at K6217 will be closed to all rail traffic wof 16 July and traffic will use the br at K1621 until further notice from then onwards (.) This HQ 08/309 of 9 July not to all is cancelled (.) All info

6327

Macloch
Lieut-Col.
CS

070955B

GR26 BT

To: Commanding Generals.

1 ST Armd Div

34 Inf Div

92 Inf Div

6 SA Armd Div

1 Inf Div BHP

LEONARD Co

Ref NR1755 Restricted. TRENDAWAY BRIDGE Class 1.0 now open
on Highway No 9 at PIADENZA K620168

CRITCHFIELD COLO.

~~SECRET~~
RESTRICTED

HEADQUARTERS FIFTH ARMY
APO 464 US ARMY

OC3/ker

9 May 1945

SUBJECT: Downgrading of letters listing dropping areas of Butterfly Bombs.

TO: See Distribution.

1. Information has been received from Adv. Hq. XXII Tactical Air Command, to the effect that all lists of information reference dropping of butterfly bombs by aircraft of that command have been downgraded to Restricted.

2. It is desired that all concerned take necessary action to accomplish the necessary change in classification.

BY COMMAND OF LIEUTENANT GENERAL THURGOOD:

C. C. Smith
C. C. SMITH
Captain, AGD
Asst Adjutant General

DISTRIBUTION:

R
All Troops

6326

RESTRICTED

Subject :- Engineer Intelligence - Road Reports.

52 British Liaison Unit
CMF

14 May 45

RE/04/5/8

CG IV US Corps
(Office of the Engineer)

Herewith originals and consolidated translations of
Road Reconnaissance reports received from Legnano Gruppo.

C.D.
Captain
SORE

CID/aa

6325

ROAD RECONNAISSANCE REPORT -LEGNANO GROUP AREA.1. Route 45 REZZATO (F 1464) - TORMINI (F 2375) - LIMONE SUL GAROA (F 5399)

- (i) Road 2 way. Reduced to one way in tunnels.
- (ii) Surface : Asphalt.
- (iii) Classification : 40.
- (iv) Weak points :- (a) at F 415850 - Damaged Br. Class 12 Diversion constructed by civilians.
(b) F 4891 - Reduced to half width for about 250 m. Repaired by civilians and passable to J Jeeps and 3/4 ton vehicles
(c) F 5195 - existing German improvised Br. Class 30.

2. Yellow Rd BRESCIA (F 0366)- BERGAMO (K 6387) - TREZZO SULL'ADDA (K 5278)

- (i) Road 2 way.
- (ii) Bottlenecks :- German built improvised Timber Br and diversion at K 8175.
- (iii) Surfacing : Asphalt and concrete.
- (iv) Classification : 70.
- (v) Weak points : Improvised Br at K 8175 - Class 40.

6324

El/cu.

FILE

COMANDO GRUPPO COMBATTIMENTO "LEGNAIO"
= Comando Genio =

n° 3562 di prot/110

P.M. 155, 11 13/5/1945

O g g e t t o / Ricognizione strada.-

AL SORE 52° BRITISH LIAISON UNIT

= P. M. 155 =

Si trasmettono, in duplice copia :

- un rapporto della ricognizione strada Gialla REZZATO (F 1464) -
TORMINI (F 2375) - LIMONE SUL GARDA (F 5399) - STATALE 45 bis.-

IL COMANDANTE DEL GENIO
(Magg. E. Vescovini)



6323

Subject :- Bridge Maintenance.

52 British Liaison Unit

CMF

31 July 45

RE/04/5/14

179 CRE Works
59 Area.

Forwarded herewith is schedule of Bailey and Improvised
Bridges in Legnano Gruppo Area.



Captain
S.C.R.E.

CID/aa

Copy to : Chief Engineer, 2 District - ref your CE/103
dated 13 Jul 45.

6322

6321

= Comando Genio =

Handwritten signature

Germany

621

உள்ளே உள்ள பூக்கள் மிகவும் அழகானவை.

St. Anne

6319

Subject :- Engineer Intelligence - Road Reports.

52 British Liaison Unit
CMF

12th May 45

RE/04/5/7

CG IV US Corps
(Office of the Engineer)

Herewith originals and consolidated translations of Road
Reconnaissance reports received from Legnano Gruppo.


Captain
SORE

CID/aa

6318

ROAD RECONNAISSANCE REPORTS - LEGNANO GROUP AREA1. Green Rd MONTECHIARI (F 1853) - CARPENDOLO (F 2140) - ACQUANEGRA (F 2054) - CANNETO (F 1524)

- (i) Road 2 way.
- (ii) Bottlenecks :- F 205 and F 1932 - German Rd blocks.
- (iii) Surfacing :- Asphalt from MONTECHIARI - ASOLA (F 1932) Macadam from ASOLA - CANNETO.
- (iv) Classification - 24
- (v) Weak points :- Timber Br at CHIESE (F 1724) in poor state of repair - present classification 5 - impossible to reinforce it.

2. Green Rd LECCO (E 4306) - TACENO (E 4125) - BELLANO (E 3728)

- (i) Road 1 way.
- (ii) Surfacing :- Part Asphalt ; Part Macadam.
- (iii) Classification :- 40
- (iv) Many sharp curves and narrow bends - unsuitable for large vehicles in quantity.

3. Green Rd TACENO (E 4125) - PREMANA (E 4628)

- (i) Road :- One way.
- (ii) Surfacing :- natural (gravel)
- (iii) Classification :- 24.
- (iv) Sharp curves and narrow bends, unsuitable for large trucks in quantity

4. Green Rd BRESCIA (F 0568) - BIVIO (F 0672) - BARGHE (F 2083) - NOZZA (F 2986) - S ANTONIO (F 2896) - PONTE CAFFARO (F 3098)

- (i) Road 2 way.
- (ii) Bottlenecks :- (a) Village of ODOLO (F 1979) - narrow streets.
(b) Village of PRECEGLIE (F 1981) "
(c) Damaged Br at NOZZA (F 1986) at present partly repaired with improvised materials.
(d) LAVENONE (F 2389) - One way diversion by demolished Br.
(e) Damage to road at F 2389 - rd at present one way

2. Green Rd LECCO (E 4306) - TACENO (E 4125) - BELLANO (E 3122)

- (i) Road 1 way.
- (ii) Surfacing :- Part Asphalt ; part Macadam.
- (iii) Classification :- 40
- (iv) Many sharp curves and narrow bends - unsuitable for large vehicles in quantity.

3. Green Rd TACENO (E 4125) - PREMANA (E 4628)

- (i) Road :- One way.
- (ii) Surfacing :- natural (gravel)
- (iii) Classification :- 24.
- (iv) Sharp curves and narrow bends, unsuitable for large trucks in quantity

4. Green Rd BRESCIA (F 0568) - BIVIO (F 0372) - BARGHE (F 2083) - NOZZA (F 2986) - S ANTONIO (F 2896) - PONTE CAFFARO (F 3098)

- (i) Road 2 way.

(ii) Bottlenecks :-

- (a) Village of ODOLO (F 1979) - narrow streets.
- (b) Village of PRECEGLIE (F 1981) "
- (c) Damaged Br at NOZZA (F 1986) at present partly repaired with improvised materials by
- (d) LAVENONE (F 2389) - One way diversifying
- (e) Damage to road at F 2389 - rd at present demolished Br.
- (f) ANFO (F 2892) - Road damaged and at present only one way.

- (iii) Surface :- Asphalt from BRESCIA - NAVE (F 1173) and NOZZA (F 2986) to VESTONE (F 2086) Macadam from NAVE - NOZZA and from VESTONE - PONTE CAFFARO.

- (iv) Classification - 30.

- (v) Weak points :- (a) Improvised Br at NOZZA. Needs new Class 30 Br.
- (b) Class 18 Diversion at LAVENONE

5. Green Rd BAGNOLELLA (F 0256) - GAMBARA (1036) - CANNETO
(F 1524) - CASALMAGGIORE. (F 1806)

- (i) Road 2 way
- (ii) Bottlenecks:-
 - (a) German Rd blocks at F 1530; F 1420, F 1514.
 - (b) CANNETO (1524) - Road blocked by rubble; narrow bridge as diversion.
- (iii) Surfacing - Asphalt from BRESCIA (F 0447) - CANNETO - CASGALLMAGGIORE.
 Macadam from BIVIO - CANNETO.
- (iv) Classification - 24.

6. Green Route DESENZANO (F 2959) - SALO (F 2975)

- (i) Two way road
- (ii) Bottlenecks:
 - (a) CROCIALE (F 2968) - narrow bridge.
 - (b) Demolitions at F 2973.
- (iii) Surface: Macadam DESENZANO (F 2763)
 Asphalt from F 2763 - SALO
- (iv) Classification :- 30.

7. Green Rd BIVIO (K 634508) - SONCINO (K 7754)

- (i) Road 2 way
- (ii) Surface - Asphalt
- (iii) Classification - 70

8. Green Rd PALAZZOLO (K 7975) - URAGO D'OGGIO (K 7866) - ROCCAFRANCA
(K 8160)

- (i) Road 2 way
- (ii) Macadam
- (iii) Classification - 30 for wheels ; 40 for tracks.

9. Green Rd PONDINO (K 5256) - BIVIO (K 5950)

- (i) Road 2 way
- (ii) Surface - Asphalt
- (iii) Classification 70.

6316

Route 11 from BRESCIA - LONATO (F 2548) - PESCHIERA (F 4155)

(iv) Classification - 24.

6. Green Route DESENZANO (F 2959) - SALO (F 2975)

- (i) Two way road
- (ii) Bottlenecks: (a) CROCIALE (F 2968) - narrow bridge.
(b) Demolitions at F 2973.
- (iii) Surface: Macadam DESZNANO (F 2763)
Asphalt from F 2763 - SALO
- (iv) Classification :- 30.

7. Green Rd BIVIO (K 634508) - SONCINO (K 7754)

- (i) Road 2 way
 - (ii) Surface - Asphalt
 - (iii) Classification - 70
8. Green Rd PALAZZOLO (K 7975) - URAGO D'OGGIO (K 7866) - ROCCAFRANCA (K 8160)

- (i) Road 2 way
- (ii) Macadam
- (iii) Classification - 30 for wheels ; 40 for tracks.

9. Green Rd PONDINO (K 5256) - BIVIO (K 5950)

6316

- (i) Road 2 way
- (ii) Surface - Asphalt
- (iii) Classification 70.

10. Route 11 from BRESCIA - LONATO (F 2548) - PESCHIERA (F 4155)

- (i) Road 2 way
- (ii) Bottlenecks : At PONTE S MARCO (F 1960) Br damaged by bombing.
- (iii) Surface : Asphalt
- (iv) Classification : 40
- (v) Weak point :- PONTE S MARCO Br. Present classification 24.

11. Green Rd BRESCIA F 0668 - MONTICHIARI (F 13) - GOITO (F 3935)
- MANTOVA (F 4826)

- (i) Road 2 way
- (ii) Bottlenecks : (a) MONTICHIARI - Bailey Br.
 (b) GOITO Br damaged by bombing.
- (iii) Surface Asphalt
- (iv) Classification : 40
- (v) Weak points : damaged Br at GOITO - present Class 18.

12. Route 45 from REZZATO (F 1464) -CAVARDO (F 2272) - SALO (F 3175)

- (i) Road 2 way
- (ii) Bottlenecks : (a) REZZATO - German Rd Block
 (b) NUVOLETO (F 1867) - Two German Rd blocks.
 (being demolished by civil authorities at present)
 (c) F 2474 - Rd damaged (at present being repaired by civilians)
- (iii) Surface - Asphalt
- (iv) Classification : 40

13. Green Rd BIVIO - BARGHE (F 2083)

- (i) Road 2 Way
- (ii) Bottlenecks : Village of VCBARNO (F 2779)
- (iii) Surface : Asphalt
- (iv) Classification : 30

Subject :- Engineer Intelligence - Road Reports

52 British Liaison Unit
CMF

9th May 45

RE/04/5/6

CG IV US Corps
(Office of the Engineer)

Herewith originals and consolidated translations of
Road Reconnaissance reports received from Legnano Gruppe.

CID/aa

CD

Captain
S.O.R.E.

6314

Reconnaissance Reports on Roads in Legnano Group Area.1. Green Rd TREVIGLIO (K5668) - PANDINO (K5256) - LODI (K4846)

- (i) Road 2 - way.
- (ii) Probable Bottlenecks:--(a) at AGNELLO (K5360) in village.
Approx 120 yds 1½ way.
- (b) Old German Rd Block at K5254.
- (iii) Asphalt surface. Worn in parts and foundations exposed -
needs maintenance.
- (iv) Classification 40 for wheeled vehicles, 70 for tracked.
- (v) Bridges damaged :- Rd over River Br at K4846; pier damaged.
Has been reinforced with timber centering under two arches.
Class 40

2. Green Rd LODI (K4846) - CREMA (K6250)

- (i) Road 2 Way
- (ii) Probable bottleneck at K5750 caused by German road block.
- (iii) Asphalt surface in good condition.
- (iv) Classification 40.

3. Green Rd SORESINA (K7441) - PIZZIGATTONE (K6931)

- (i) Road 2 way.
- (ii) Macadam Surface
- (iii) Classification 40.

4. Route 42 LOVERE (K9599) - BRENO (A1414) - EDOLIO (A1739)

- (i) Road 2 way
- (ii) Bottleneck in village of LANIGO MALEGNO (A1213)
- (iii) Asphalt construction
- (iv) Classification 70 generally.
- (v) Weak points :- (a) timber br at A1314 Class 30
(b) timber br at A1836 Class 30
Bridges cannot be reinforced.

5. Green Rd CREMONA (K8725) - CASALMORANO (K8337) - GENIVOLTA (K54737)
SONCINO (K7754)

- (i) Road 2 way.
- (ii) Asphalt surfacing

2. Green Rd LODI (K4846) - CREMA (K6250)

- (i) Road 2 way
- (ii) Probable bottleneck at K5750 caused by German road block.
- (iii) Asphalt surface in good condition.
- (iv) Classification 40.

3. Green Rd SORESINA (K7441) - PIZZIGATTONE (K6931)

- (i) Road 2 way.
- (ii) Macadam Surface
- (iii) Classification 40.

4. Route 42 LOVERE (K9599) - BRENO (A1414) - MDLO (A1739)

- (i) Road 2 way
- (ii) Bottleneck in village of LANIGO MALEGO (A1213)
- (iii) Asphalt construction
- (iv) Classification 70 generally.
- (v) Weak points :- (a) timber br at A1314 Class 30
(b) timber br at A1836 Class 30

Bridges cannot be reinforced.

GENIVOLTA (K7737)

5. Green Rd CREMONA (K8725) - CASALMORANO (K8337) - SONCLINO (K7754)

- (i) Road 2 way.
- (ii) Asphalt surfacing
- (iii) Classification 40 for wheels ; 70 for tracks.
Masonry bridges at K7748 and K7652 are reinforced with beams under the arches.

6. Green Rd CLUSONE (E8608) - LOVERE (9498)

- (i) One way road
- (ii) Construction natural gravel.
- (iii) Classification 12.
- (iv) Narrow bends and sharp curves; unsuitable for large trucks in any quantity.

7. Green Rd BERGAMO (K6588) - BIVIO (E8106) - CLUSONE (E8608)

- (i) Road 2 way.
- (ii) Probable bottleneck at ALBINO (K7394)
- (iii) Tarmac surface from BERGAMO to VERTOVA (K7899) Macadam from VERTOVA to CLUSONE
- (iv) Classification 40.
- (v) Weak point at E8003 - Class 30 masonry bridges

8. Green Route from PIZZIGHETONE (K6831) - CREMONA (K8625)

- (i) Road 2 way.
- (ii) Probable bottlenecks :- (a) PIZZIGHETONE - German Rd block.
(b) PIZZIGHETONE - Damaged Br.
- (iii) Asphalt surface.
- (iv) Classification 70.
- (v) Weak points :- (a) Bridge at PIZZIGHETONE damaged by bombing.
Traffic restricted to one way.
Present classification - 40

9. Green Rd ORZINUOVI (K8155) - CHIARI (K8268)

- (i) 1½ way Rd from ORZINUOVI to ROCCAFRANCA (K8160) ; one way from ROCCAFRANCA to CHIARI.
- (ii) Macadam surfacing and construction.
- (iii) Classification :- (a) ORZINUOVI to ROCCAFRANCA - 40
(b) ROCCAFRANCA to CHIARI - 24.

10. Green Rd from CREMA (K6250) - MONTODINE (K6442) - River ADDA (K6339)

- (i) Road 2 way.
- (ii) Surfacing Asphalt.
- (iii) Classification 70.
- (iv) Weak points :- Steel bridge at MONTODINE (K6442) and Rd/River br at K6339 - Class 70 provided speeds restricted to 5 m.p.h.

RESTRICTED

HEADQUARTERS FIFTH ARMY
APO 464 US ARMY

TIR/DBC/es

3 May 1945

OPERATIONS MEMORANDUM)

NUMBER

15)

ADDITIONAL BUTTERFLY CLUSTERS

1. Reference OM No. 11, "Butterfly Bomb Clusters", Hq 5th Army, dated 6 April 1945. Attached herewith is a record of Butterfly Bombs dropped during the period 29 March to 21 April by units XXII TIC.
2. Areas described in the attached report are now entirely within friendly territory and will be avoided, whenever possible, by units until such time as bomb disposal personnel have disposed of these bombs.
3. All troops will again be cautioned of the danger involved in picking up, moving or in any way disturbing these bombs inasmuch as the slightest jar inflicted on the butterfly bomb, armed with the non-disruptance type fuze, will result in detonation with deadly effect to personnel within a radius of 30 yards.

BY COMMAND OF LIEUTENANT GENERAL TRUSCOTT:

OFFICIAL:

DON E. CARRINGTON
Brigadier General, GSC
Chief of StaffM. F. GALT
Colonel, AGD
Adjutant General

- 1 Incl:
Report of Butterfly Bombs dropped

DISTRIBUTION:

R
All Troops

6311

1. Reference CM No. 11, Butterfly Bombs dated 6 April 1945. Attached herewith is a record of Butterfly Bombs dropped during the period 29 March to 21 April by units XXII TAC.

2. Areas described in the attached report are now entirely within friendly territory and will be avoided, whenever possible, by units until such time as bomb disposal personnel have disposed of these bombs.

3. All troops will again be cautioned of the danger involved in picking up, moving or in any way disturbing these bombs inasmuch as the slightest jar inflicted on the butterfly bomb, armed with the non-disturbance type fuse, will result in detonation with deadly effect to personnel within a radius of 30 yards.

BY COMMAND OF LIEUTENANT GENERAL THUSCOTT:

OFFICIAL:

DON E. CARMELTON
Brigadier General, GSC
Chief of Staff

7177 Grant
M. F. GRANT, JCD
Colonel, AGD
Adjutant General

1 Incl:
Report of Butterfly Bombs dropped

DISTRIBUTION:

R
All Troops

6311

RESTRICTED

RESTRICTED

RECORD OF BUTTERFLY BOMBS DROPPED

<u>No. of Bombs</u>	<u>Target</u> <u>"A" GRID</u>	<u>Location</u>
12x500	ROVERETO RR Bridge	4-698035
8x500	RA Diversion	B-988066
6x500	BORGOFORTE River Crossing	F-4411
4x500	CASALMAGGIORE River Crossing	F-1704
14x500	RA Loading Point	F-475260
22x500	SAN AMBROGIO RR Bridge	F-518642
4x500	Rail Bridge	F-9638
8x500	OSTIGLIA River Crossing	F-7412
3x500	SAN BENEDETTO Ferry Point	F-5412
12x500	Rail Loading Point	F-628475
10x500	SAN MARGHERITA RR Bridge	F-684926
6x500	VERONE Rail Bridge	F-612585
4x500	OSTIGLIA Rail Loading Point	F-7412
24x500	OSTIGLIA River Crossing	F-7511
14x500	BORGOFORTE River Crossing	F-4412
10x500	CASALMAGGIORE River Crossing	F-1805
7x500	SAN BENEDETTO Rail Loading Point	F-7813
2x500	Rail Bridge	F-9755
4x500	Road	F-7517
8x500	MONTIBELLO Rail Bridge	F-9755
4x500	RA Rail Bridge	F-668900
4x500	W/Y	F-5264
4x500	Pontoon Bridge	F-7513
52x500	Rail Bridge	F-970550
10x500	Rail Bridge	F-612585
10x500	VILLAFRANCA A/D	F-5448
9x500	GHEDI A/D	F-0857
20x500	MONTIBELLO Rail Bridge	F-969549
8x500	SAN AMBROGIO Rail Bridge	F-507640
20x500	MONTIBELLO Rail Bridge	F-970550
2x500	VILLAFRANCA	T-5448
2x500	Salvaged	F-441192
8x500	NEVESA Rail Diversion	G-6493
26x500	CITTADELLA Rail Road Bridge	G-237732
3x500	Rail Loading Point	G-361594
6x500	Road Bridge	G-025158
14x500	CITTADELLA Rail Diversion	G-237732
4x500	PC River Crossing	G-361594
6x500	CITTADELLA Rail Loading Point	G-289757

6310

NEW GUID

6x500	BORGOFORTE River Crossing	F-4411
4x500	C.S. MAGGIORE River Crossing	F-1704
14x500	Rail Loading Point	F-475260
22x500	SAN ANGELO RA Bridge	F-518642
4x500	Rail Bridge	F-9638
8x500	OSTIGLIA River Crossing	F-7412
3x500	SAN BENEDETTO Ferry Point	F-5412
12x500	Rail loading Point	F-628475
10x500	SAN MARCELLA RA Bridge	F-684926
6x500	VERONA Rail Bridge	F-612585
4x500	OSTIGLIA Rail Loading Point	F-7412
24x500	OSTIGLIA River Crossing	F-7511
14x500	BORGOFORTE River Crossing	F-4412
10x500	C.S. MAGGIORE River Crossing	F-1805
7x500	SAN BENEDETTO Rail Loading Point	F-7813
2x500	Rail Bridge	F-9755
4x500	Road	F-7517
8x500	MONTEBELLIO Rail Bridge	F-9755
4x500	ALL Rail Bridge	F-668900
4x500	M/Y	F-5264
4x500	Pontoon Bridge	F-7513
52x500	Rail Bridge	F-970550
10x500	Rail Bridge	F-612585
10x500	VILLAFRANCA A/D	F-5448
9x500	GUIDE A/D	F-0857
20x500	MONTEBELLIO Rail Bridge	F-969549
8x500	SAN ANGELO Rail Bridge	F-507640
20x500	MONTEBELLIO Rail Bridge	F-970550
3x500	VILLAFRANCA	F-5448
2x500	Salvood	F-444192

NEW GUID

8x500	VERVESA Rail Diversion	G-6493
26x500	CITTADILLA Rail Road Bridge	G-237732
3x500	Rail Loading Point	G-361594
6x500	Road Bridge	G-025158
14x500	CITTADILLA Rail Diversion	G-237732
4x500	FC River Crossing	G-361594
6x500	CITTADILLA Rail Loading Point	G-280754
6x500	Salvood	G-5020
2x500	Rail Bridge	G-143686
57x500	Rail Diversion	G-798815
74x500	Rail Diversion	G-929888
4x500	Bridge	G-4798
4x500	Bridge	G-9388
74x500	Rail Diversion	G-648930
4x500	Road	G-6153
66x500	Rail Bridge	G-273630
61x500	Rail Bridge	G-237736

Incl 1

RESTRICTED

6310

= U R G E N T I S S I M O =

P.M.155, li 11 maggio 1945

AL SORE 52° BRITISH LIAISON UNIT

= P. M. 155 =

▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲▲

- un rapporto della ricognizione strada verde BIVIO (F 2675) -
BARGHE (F 2083) ;

- un rapporto della ricognizione strada gialla REZZATO (F 1464) -
GAVARDO (F 2272) - SALO' (F 3175) - Statale n° 45.-

IL COMANDANTE DEL GENIO
(Magg. E. Vescovini)

Sicilia

609

RESTRICTED

RECORD OF CURRENTLY BOMBS DROPPED

<u>No. of Bombs</u>	<u>Target</u> <u>"A" GRID</u>	<u>Location</u>
12x500	ROVERETO RR Bridge	A-698035
8x500	RR Diversion	B-988066
6x500	BORGOFORTE River Crossing	F-4411
4x500	CASALEMAGGIORE River Crossing	F-1704
14x500	RR Loading Point	F-475260
22x500	SAN AMBROGIO RR Bridge	F-518642
4x500	Rail Bridge	F-9638
8x500	OSTIGLIA River Crossing	F-7412
3x500	SAN BENEDETTO Ferry Point	F-5412
12x500	Rail Loading Point	F-628475
10x500	SAN MICHELE RR Bridge	F-684926
6x500	VERONA Rail Bridge	F-612585
4x500	OSTIGLIA Rail Loading Point	F-7412
24x500	OSTIGLIA River Crossing	F-7511
14x500	CASALEMAGGIORE River Crossing	F-4412
10x500	SAN BENEDETTO Rail Loading Point	F-1805
7x500	Rail Bridge	F-7813
2x500	Road	F-9755
4x500	MONTIBELLO Rail Bridge	F-7517
4x500	RAIL Rail Bridge	F-9755
4x500	RAIL	F-668900
52x500	Pontoon Bridge	F-5264
10x500	Rail Bridge	F-7513
10x500	Rail Bridge	F-970550
9x500	VILLAFRANCA A/D	F-612585
20x500	CHEDI A/D	F-5448
8x500	MONTIBELLO Rail Bridge	F-0857
20x500	SAN AMBROGIO Rail Bridge	F-969549
3x500	MONTIBELLO Rail Bridge	F-507640
2x500	VILLAFRANCA	F-970550
	Salwood	F-5448
		F-44192
8x500	MONTIBELLO Rail Diversion	G-6493
26x500	CITTADELLA Rail Road Bridge	G-237732
3x500	Rail Loading Point	G-361594
6x500	Road Bridge	G-025158
14x500	CITTADELLA Rail Diversion	G-237732
4x500	PO River Crossing	G-361594
6x500	CITTADELLA Rail Loading Point	G-280754
6x500	Salwood	G-5020
2x500	Rail Bridge	G-143686

6310

MAN GRID

6x500	BORGOFORTE River Crossing	F-4411
4x500	CASALMAGGIORE River Crossing	F-1704
14x500	RA Loading Point	F-475260
22x500	SAN AMBROGIO RA Bridge	F-518642
4x500	Rail Bridge	F-9638
8x500	OSTIGLIA River Crossing	F-7412
3x500	SAN BENEDETTO Ferry Point	F-5412
12x500	Rail Loading Point	F-628475
10x500	SAN MARGHERITA RA Bridge	F-684926
6x500	VERONA Rail Bridge	F-612585
4x500	OSTIGLIA Rail Loading Point	F-7412
24x500	OSTIGLIA River Crossing	F-7511
14x500	BORGOFORTE River Crossing	F-4412
10x500	CASALMAGGIORE River Crossing	F-1805
7x500	SAN BENEDETTO Rail Loading Point	F-7813
2x500	Rail Bridge	F-9755
4x500	Road	F-7517
8x500	MONTESILLO Rail Bridge	T-9755
4x500	RA Rail Bridge	F-668900
4x500	RA	F-5264
4x500	Pontoon Bridge	F-7513
52x500	Rail Bridge	F-970550
10x500	Rail Bridge	F-612585
10x500	VILLAFRANCA A/D	F-5448
9x500	GRADI A/D	F-0857
20x500	MONTESILLO Rail Bridge	F-969549
8x500	SAN AMBROGIO Rail Bridge	F-507640
20x500	MONTESILLO Rail Bridge	F-970550
3x500	VILLAFRANCA	F-5448
2x500	Salvaged	F-44192

MAN GRID

8x500	MEVESA Rail Diversion	G-6493
26x500	CITT/DELLA Rail Road Bridge	G-237732
3x500	Rail Loading Point	G-361594
6x500	Road Bridge	G-025158
14x500	CITT/DELLA Rail Diversion	G-237732
4x500	FO River Crossing	G-361594
6x500	CITT/DELLA Rail Loading Point	G-280754
2x500	Salvaged	G-5020
57x500	Rail Bridge	G-143686
74x500	Rail Diversion	G-798815
4x500	Rail Diversion	G-929828
4x500	Bridge	G-4798
4x500	Bridge	G-9388
74x500	Rail Diversion	G-648930
4x500	Road	G-6153
66x500	Rail Bridge	G-273620
61x500	Rail Bridge	G-237736

RESTRICTED

Incl 1

6310

<u>No. of Bombs</u>	<u>Target</u>	<u>Location</u>
	<u>RESTRICTED</u>	
4x500	Highway	G-3866
6x600	RR Diversion	G-648930
4x500	PO Crossing	G-8575
4x500	THINE A/D	G-045788
12x500	<u>"K" GRID</u>	
4x500	PLACENZA River Crossing	K-2617
2x500	PO River Crossing	K-8323
	BERGAMO A/D	K-6584
4x500	<u>"L" GRID</u>	
2x500	PO River Crossing	L-2897
3x500	Rail Junction	L-3798
4x500	VLDANA Crossing	L-2797
4x500	PO River Crossing	L-9752
4x500	PO Crossing	L-9899
4x500	FIGAROLA PO Crossing	L-9897
4x500	Assembly Area	L-250964 to
7x500		L-270970
16x500	FIGAROLA PO Crossing	L-990967
4x500	<u>"M" GRID</u>	
	PO River Crossing	M-1192
8x500	<u>"P" GRID</u>	
	Fuel Dump	P-9274

U R G E N T I S S I M O

[illegible]

P.M.155,11 11 maggio 1945

O g g e t t o / Ricognizioni strade.-

= P. M. 155 =

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Si trasmettono in duplice copia :

- un rapporto della ricognizione strada verde BIVIO (F 2675) - BARGHE (F 2083) ;
- un rapporto della ricognizione strada gialla REZZATO (F 1464) - GAVARDO (F 2272) - SALO' (F 3175) - Statale n° 45.-

Pickering

6209

FILE

COMANDO GRUPPO COMBATTIMENTO "LEGIONARIO"

e Comando Genio =

~~~~~

R A P P O R T O della strada verde BIVIO (F 2675); - BARGHE (F 2083).

~~~~~

STRADA A 2 VIE : colli di bottiglia a :

- VOBARNO (F 2779) nell'abitato.-

F O N D O : Asfaltata.-CLASSE : 30.-

P.M. 155,11 il maggio 1945

IL COMANDANTE DEL GENIO
(Magg. E. Vescovini)*Vescovini*

6308

Al. / ml.

COMANDO GRUPPO COMBATTIMENTO "LEGNAME"

- Comando Genio -

R A P P O R T O della ricognizione stradale gialla REZZATO (F 1464) -
 GAVARDO (F 2272) - SALO' (F 3175) -
 Statale n° 45.-

~~~~~

STRADA A 2 VIE : colli di bottiglia a :

- REZZATO posto di blocco tedesco ;
- NUVOLENTO (F 1867) 2 posti di blocco tedeschi (lavori in corso per sgombero da parte di civili)
- F 2474 strada parzialmente interrotta (lavori in corso da parte dei civili).-

F B N D O : Asfaltato.-

CLASSE DELLA STRADA : 40.-

- ~~Strada a 2 vie (F 1464) - F 2272 - F 3175~~

F.M.155,11 11 maggio 1945

IL COMANDANTE DEL GENIO  
 (MARE. E. Vescovini)

*Vescovini*

6307

FIVE

= Comando Genio =

*[Handwritten signature]*

- F O N D O: Asfaltato.-

PUNTI DEBOLI :  
- ponte danneggiato a GOITO (F 3935); classe attuale del ponte 18.-

P.M.155,11 8 Maggio 1945

IL COMANDANTE DEL GENIO  
(Magg. E. Vescovini)



6304

m/ou.

COMANDO GRUPPO DI COMBATTIMENTO "LEGNANO"  
 = Comando Genio =  
 ^-^-^-^-^-^-^-^-^-^-

R A P P O R T O della ricognizione strada gialla (Statale n° 11)  
 BRESCIA (F 0663) - LONATO (F 2548) - PESCHIERA  
 (F 4155).-

~~27/2/87 17/2/87 17/2/87 17/2/87 17/2/87 17/2/87 17/2/87 17/2/87 17/2/87 17/2/87~~

STRADA A 2 VIE : colli di bottiglia n° 1

- PONTE S.MARCO (F 1960) ponte danneggiato da bombardamenti aerei.-

F O R D O : Asfaltato.-

CLASSE DELLA STRADA : 40.-

PUNTI DEBOLI :

- ponte danneggiato a PONTE S.MARCO (F 1960); classe attuale del  
 ponte 24.-

P.M.155, il 8 Maggio 1945



6305

Comando Genio =

[illegible]

F O N D O : Asfaltato.-

CLASSE DELLA STRADA : 70.-

P.M.155,11 8 Maggio 1945

IL COMANDANTE DEL GENIO  
(Ing. E. Vescovini)

Genovese

634

PAGES MISSING OR  
PAGINATION INCORRECT -  
FILMED AS FOUND

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P.M.155,11 8 Maggio 1945

[illegible]

6382

COMANDO GRUPPO DI COMBATTIMENTO "LEGnano"  
= Comando Genio =  
- - - - -

[illegible]

F O N D O: Asfaltato.-

CLASSE DELLA STRADA? 70.-

P.M. 155, 11 8 Maggio 1945

IL COMANDANTE DEL GENIO  
(Magg. E. Vescovini)



Evening

6307

EL/OU.

= URGENTISSIMO =

FILE.

COMANDO GRUPPO COMBATTIMENTO "LEGNARO"

= Comando Genio =

- - - - -

n° 3507 di prot/110

P.M. 155, 11 10 Maggio 1945

O g g e t t o / Ricognizioni strade.-

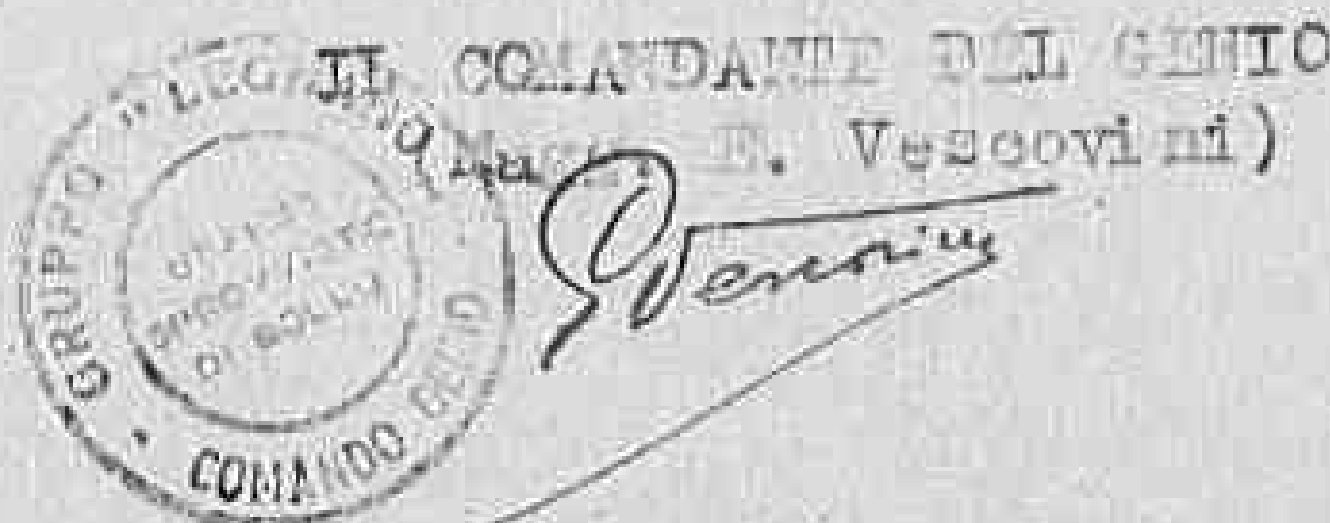
AL SORE 52° BRITISH LIAISON UNIT

= P.M. 155 =

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Si trasmettono; in duplice copia :

- un rapporto della ricognizione strada verde MONTICHIARI (F 1853) -  
CARPENEDOLO (F 2140) - ACQUANEGRA (F 2045) - CANETO (F 1524) ;
- un rapporto della ricognizione strada verde LEGGO (E 4306) -  
TAGGIO (E 4125) - BELLANO (E 3728) ;
- un rapporto della ricognizione strada verde TAGGIO (E 4125) - PRE-  
MANA (E 4628) ;
- un rapporto della ricognizione strada verde BRESCIA (F 0563) -  
BIVIO (F 0672) - BARGHE (F 2033) - NOZZA (F 2986) - S.ANTONIO (F2896)  
- PONTE CATTARO (F 3095) ;
- un rapporto della ricognizione strada verde RANCILO DELLA (F 0256) -  
CAMBARA (F 1036) - CANETO (F 1524) - CASAMAGGIORE (F 1806) ;
- un rapporto della ricognizione strada verde DESENZANO (F 2959) -  
SALO' (F 2975).=



6300

El/cu.

COMANDO GRUPPO DI COMBATTIMENTO "LEGNANO"

= Comando Genio =

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R A P P O R T O della ricognizione strada verde DESENZANO (F 2959) -  
SALO' (F 2975).-

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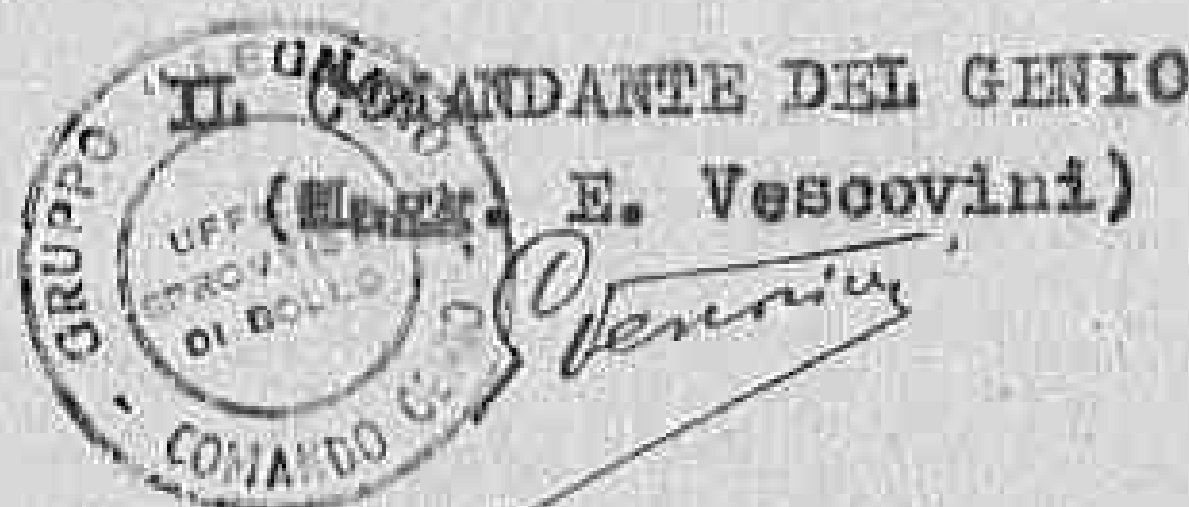
STRADA A 2 VIE : colli di bottiglia a :

- CROCIATALE (F 2968) ponte largo m. 5 ;
- a (F 2973) per interruzione predisposta dai Tedeschi.-

F O N D O : Macadam da DESENZANO (F 2763) ;  
asfaltata da (F 2763) a SALO'.--

CLASSE DELLA STRADA : 30.-

P.M.155,11 10 Maggio 1945



6299 ✓

COMANDO GRUPPO COMBATTIMENTO "LEGNANO"  
= Comando Genio =

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- (F 1530) posto di blocco tedesco ;
- ( F 1420) posto di blocco tedesco ,
- (F 1514) posto di blocco tedesco
- CANNETO (F 1524) strada ingombra da macerie ;
- esiste un punto stretto per la presenza di un portale.-

B O N D O : asfaltato nei tratti di BRESCIA (F 0447) - CANNETO -  
CASALMAGGIORE ;  
Macadam Bivio (F 0447) - CANNETO.-

P.M. 155, 11 10 Maggio 1945



6293

Comando Genio =

*ॐ नमो भगवते वासुदेवाय ॥ ॐ नमो भगवते वासुदेवाय ॥*

Macadam nei tratti NAVE - NOZZA - VESTONE - PONTE CAFFARO.-

A LAVENONE esiste diversione di classe 18.-

IL COMANDANTE DEL GENIO  
(Mazz. D. Vescovini)  
Stenica

629

— — — — —

IL COMANDANTE DE I GENIO  
(Magg. E. Vescovini)  
*Vescovini*

**COMANDO GRUPPO COMBATTIMENTO "LEGNANO"**  
= Comando Genio =  
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84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99

IL COMANDANTE DEL GENIO  
(M. E. Vescovini)

6295

B/cu.

COMANDO GRUPPO COMBATTIMENTO "LEGNAIO"  
= Comando Genio =

R A P P O R T O / della ricognizione Strada verde MONTICHIARI (F 1853)  
CARPENEDOLO (F 2148) - ACQUANEGRA (F 2045) - CANNE-  
TO (F 1524).-

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STRADA A 2 VIE : colli di bottiglia a :

- ACQUANEGRA (F 2025) posto di blocco tedesco ;  
- A S O L A (F 1932) posto di blocco tedesco ;

F O N D O: Asfaltata nel tratto MONTICHIORI - ASOLA (F 1932)  
macadam nel tratto ASOLA → CANNETO.-

CLASSE DELLA SURADA : 24.-

PUNTI DEBOLI :

- PUNTI DEBOLI :
- Ponte in legno sul "CHIESE" (F 1724) in cattivo stato di conservazione ;
  - classe attuale del ponte 5.-
- Non sono possibili lavori di rinforzo.-

P.M. 155, 11 10 Maggio 1945



629

Subject : Engineer Intelligence - Rd. Reports.

52 British Liaison Unit  
CMF.

6 Apr 45

RE/04/5/5

CG. IV U.S. Corps  
(Office of the Engineer.)

Forwarded herewith are reconnaissance reports  
of the following roads:-

- (a) Route 45 from BRESCIA - CREMONA.
- (b) Green Route from CREMONA - TREVIGLIO  
(5668)

All Map References refer to Road Map (1/200,000  
Italy) Sheets 5 and 8.

  
Captain.  
S.O.R.E.

6293

ENGINEER INTELLIGENCE - RD. REPORTS(1) Route 45 BRESCIA - CREMONA

Tarmac Rd. Good condition. Two way.  
Road generally Class 70 but weak points at following places:-

(a) MANERBIO (9848) Estimated Class 30 Bridge; Class 40 in emergency.

(b) PONTEVICO (9338) Existing Rd over River Bridge destroyed. Estimated gap 230 - 250 feet. Road level approx 30 ft. above water level.

Diversion Class 24 on EAST side, 1½ way. Passes over German built timber bridge Class 24. Probable bottleneck at this point. Strict traffic control will be required for large volumes of traffic.

(2) Green Rd. CREMONA - SORESINA (7541) - CREMA (6351) - TREVIGLIO (5668).

Road generally tarmac surface in Good condition. 2 way.  
Class 70 generally. At present unusable to vehicles larger than 1/4 ton trucks.

Weak points:-

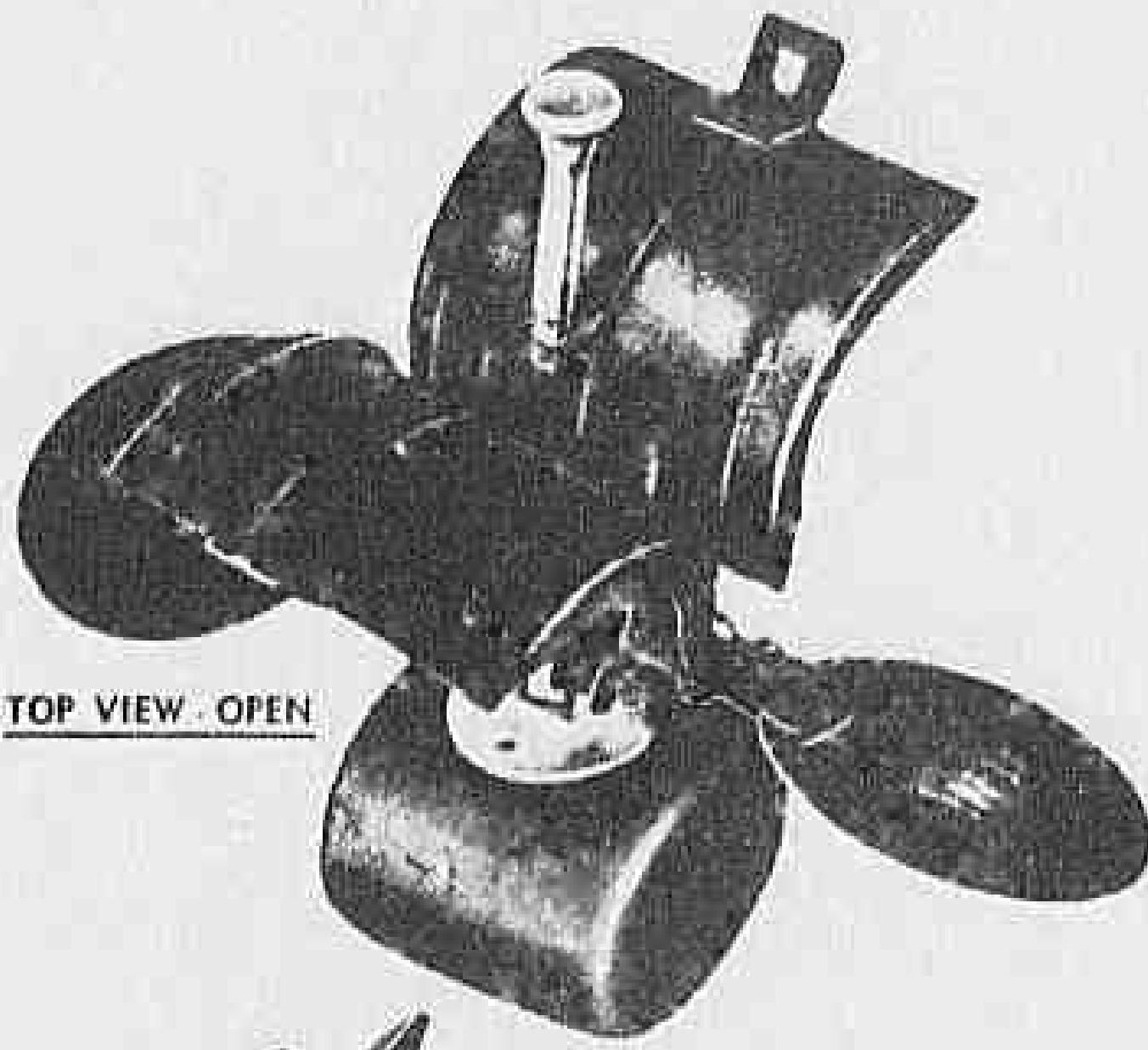
(a) Bridge at CREMA. Estimated Class 30 generally. Damaged by bombing but one-way passage possible to 1/4 ton trucks at 5 m.p.h. NO Diversion possible. Estimate require 80' 0" D/S Bailey built on existing bridge to make usable by all traffic.

(b) Road over Fly br. at TREVIGLIO. Estimated Class 18.

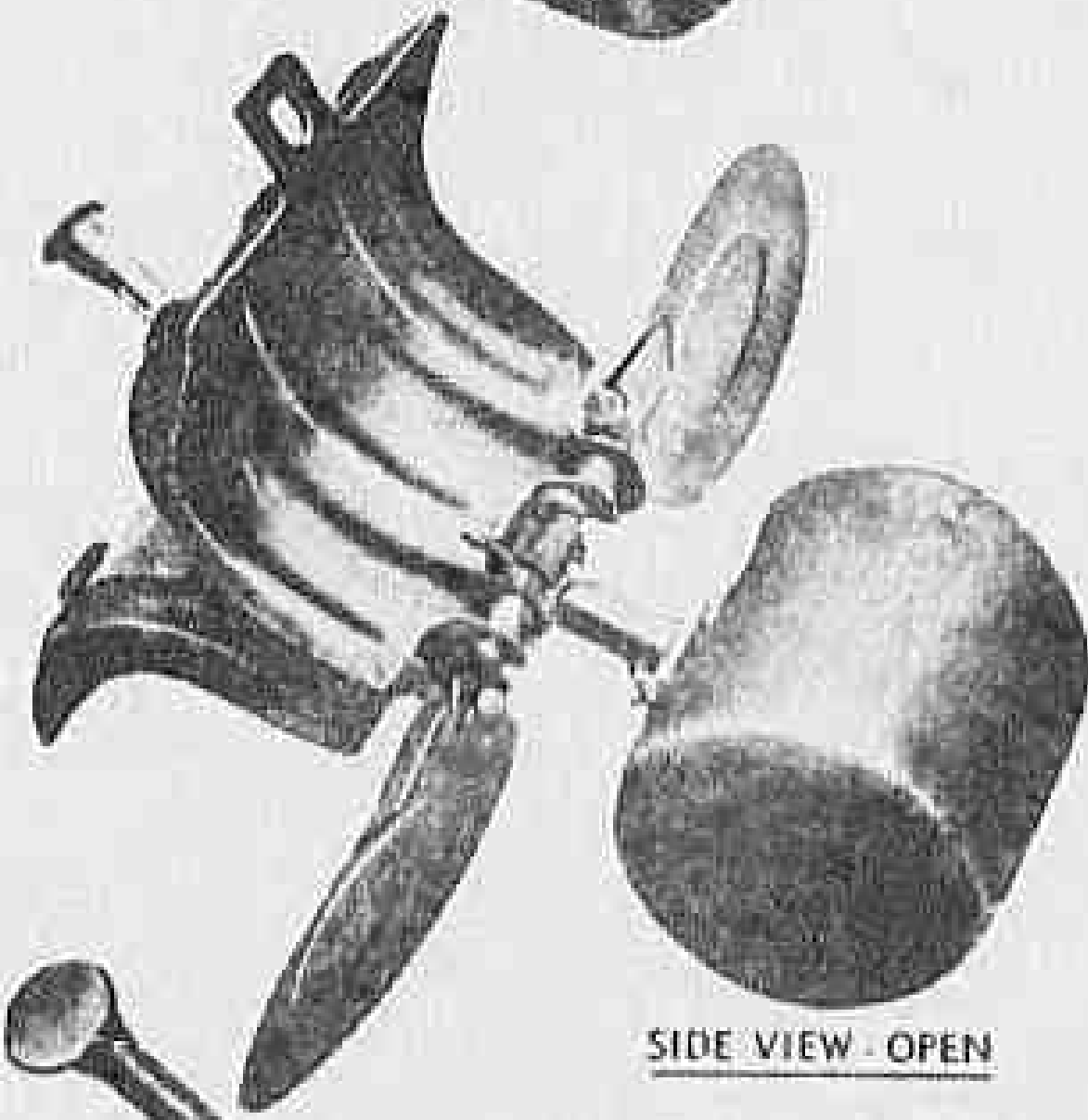
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RESTRICTED

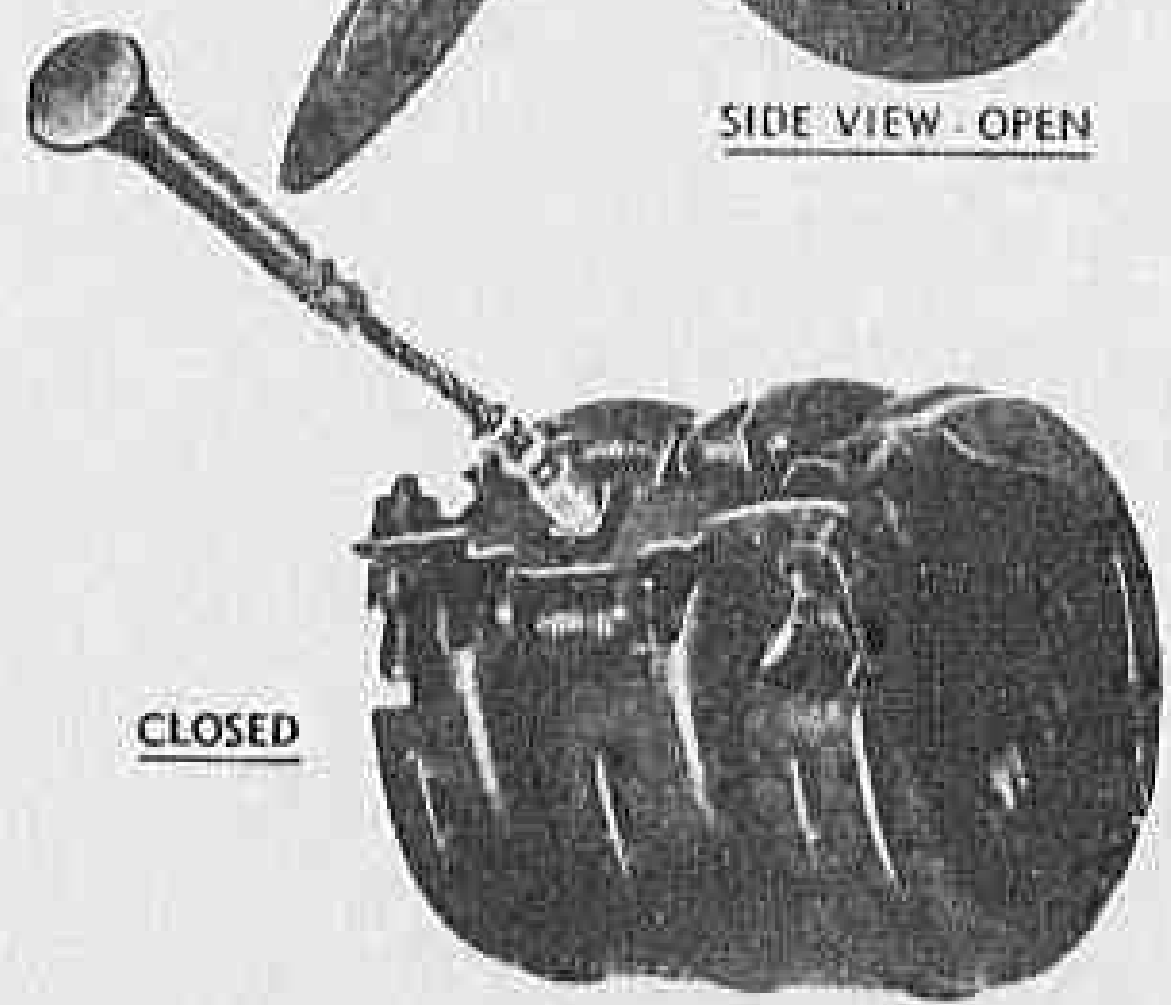
4 POUND FRAGMENTATION (BUTTERFLY) BOMB, M83



TOP VIEW - OPEN



SIDE VIEW - OPEN



CLOSED

*Identical with  
M83A1 fragmentation  
bomb  
6291*

Subject :- Engineer Intelligence - Rd Reports

URGENT

52 British Liaison Unit  
OMF

4 May 45

RE/04/5/7.

HQ LEGHANO Combat Group

1. The Commanding General, 4th US Corps, requires immediately a complete report on the state of all main rds, and highways in the Group Area. The term "main rds" maybe taken to mean those rds which are coloured yellow or green on the 1/200,000 Scale Rd map of Italy.
2. Reconnaissance reports should contain answers to the following questions :-

- (a) Is the rd one way, two way etc?
- (b) What type of surfacing and construction? (i.e. Tarmac, water - bound macadam etc)
- (c) What is the maximum load classification which the rd will take (i.e. Class 24,30,70 etc) If the general classification is limited by weak points (eg a rd which will itself carry Class 70 traffic may pass over a Class 24 bridge) what work will be required to increase the classification of the weak point?
- (d) Map references of weak points.
- (e) Are there any narrow points which may cause "bottle - necks" or may require careful traffic control when the rd is used by large volumes of traffic?

3. Reconnaissance of the following rds has already been completed.

- (i) Green rd from BERGAMO - Rd junction 5786 - PALAZZO (7975) - OSPITALETTO (9470) - BRESCIA.
- (ii) Green rd from BIELLA - ORZINUOVI (8253) SONCINO (7753) - MARTINENGO (7073) - Rd junction 5786.
- (iii) ROUTE No 11 from Rd junction 8672 - Rd junction 4572.
- (iv) Green rd from Rd junc 5463 - BARIANO (6467) - COLOGNO al SERIO (6574) - BERGAMO.
- (v) ROUTE No 42 from TREVISO (5668) - BERGAMO.

1. The reconnaissance report on the state of all main rds, and highways in the complete report on the state of all main rds, and highways in the Group Area. The term "main rds" may be taken to mean those rds which are coloured yellow or green on the 1/200,000 Scale Rd map of Italy.

2. Reconnaissance reports should contain answers to the following questions :-

- (a) Is the rd one way, two way etc?
- (b) What type of surfacing and construction? (i.e. Tarmac, water-bound macadam etc.)
- (c) What is the maximum load classification which the rd will take (i.e. Class 24,30,70 etc) If the general classification is limited by weak points (eg a rd which will itself carry Class 70 traffic may pass over a Class 24 bridge) what work will be required to increase the classification of the weak point?
- (d) Map references of weak points.
- (e) Are there any narrow points which may cause "bottle - necks" or may require careful traffic control when the rd is used by large volumes of traffic?

3. Reconnaissance of the following rds has already been completed.

- (i) Green rd from BERGAMO-Rd junction 6786 - PALAZZO (7975) - OSPITALETTO (9470) - BRESCIA.
- (ii) Green rd from BRESCIA-ORZINUOVI (8253) SONCINO (7753) - MARTINENGO (7073) - Rd junction 6786.
- (iii) ROUTE No 11 from Rd junction 8672 - Rd junction 4672.
- (iv) Green rd from Rd junc 6463 - BARIANO (6467) - COLOGNO al SERIO (6574) - BERGAMO.
- (v) ROUTE No 42 from TRUVIGLIO (5668) - BERGAMO
- (vi) ROUTE No 45 from BRESCIA - CREMONA.

4. Owing to urgency with which the information is required reports may be telephoned direct to Major Tabona, 52 BLU Italian speaking Liaison officer at IV Corps, for onward transmission to the Corps Engineer.

Reports should be made daily, and telephoned reports should be confirmed in writing and forwarded through SOFAS 52 BLU.

Captain  
S.O.B.E.

Copy to : CG IV Corps (Office of the Engineer)

SECRET

Appendix "A" to Fifth Army G-2 Report No. 586

NEW LIGHT METALLIC AT MINE  
("HUB CAP")1. GENERAL

Quantities of a new type of light metallic AT mine have been encountered by the 325th Engineer Combat Battalion.

2. DESCRIPTION

The mine closely resembles an automobile wheel hub cap. It is olive drab in color, measures approximately one foot in diameter and is four inches high at its highest point. Most of the mine body is enclosed within a dome-shaped pressure plate, bolted to a flat base plate of sixteenth inch steel by 11 hexagonal nuts about its circumference. A metal cap, top center of the pressure plate, is bisected by a horizontal hole for the insertion of a safety pin. The cap is one inch in diameter. A flat leather carrying handle is hinged to the base plate. There are no activating walls on bottom or sides of the mine for boottrapping, although pressure release devices have been found under some, and pull wires can easily be fastened to any of the hexagonal nuts on the base plate or the carrying handle. The mine weighs about 11 pounds, of which approximately seven pounds are explosive.

3. FUNCTIONING

The entire igniter assembly is enclosed within the pressure plate. Weight exerted on the pressure plate depresses a heavy coiled spring until the plate bears down on the pressure head of the igniter, shears a small brass shear pin, and releases the striker shaft to detonate the mine. Estimated firing pressure is approximately 750 pounds.

4. TO NEUTRALIZE

Blow in place or pull by rope in the usual manner, or insert a nail horizontally through the hole in the small metal cap, top center of the pressure plate and then pull by rope.

5. EMPLOYMENT

Employment of these mines thus far has been limited to roads, where they have been buried in conjunction with road blocks. Normal AT mine patterns were used. Several of these mines blew up when pulled; others appeared to be duds and failed to explode when half-pound blocks of TNT were placed on them as primers.

For sketch of "HUB CAP" AT mine, see reverse side.

(Source: VI Corps G-2 Report No. 233)

6289

in color, measures approximately one and one-half inches in diameter at its highest point. Most of the mine body is enclosed within a pressure plate, bolted to a flat base plate of sixteenth inch steel by 11 hexagonal nuts about its circumference. A metal cap, top center of the pressure plate, is hinged to a horizontal hole for the insertion of a safety pin. The cap is one inch in diameter. A flat leather carrying handle is hinged to the base plate. There are no activating walls on bottom or sides of the mine for bootstrapping, although pressure release devices have been found under some, and pull wires can easily be fastened to any of the hexagonal nuts on the base plate or the carrying handle. The mine weighs about 11 pounds, of which approximately seven pounds are explosive.

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For sketch of "HUB C.P." AT mine, see reverse side.

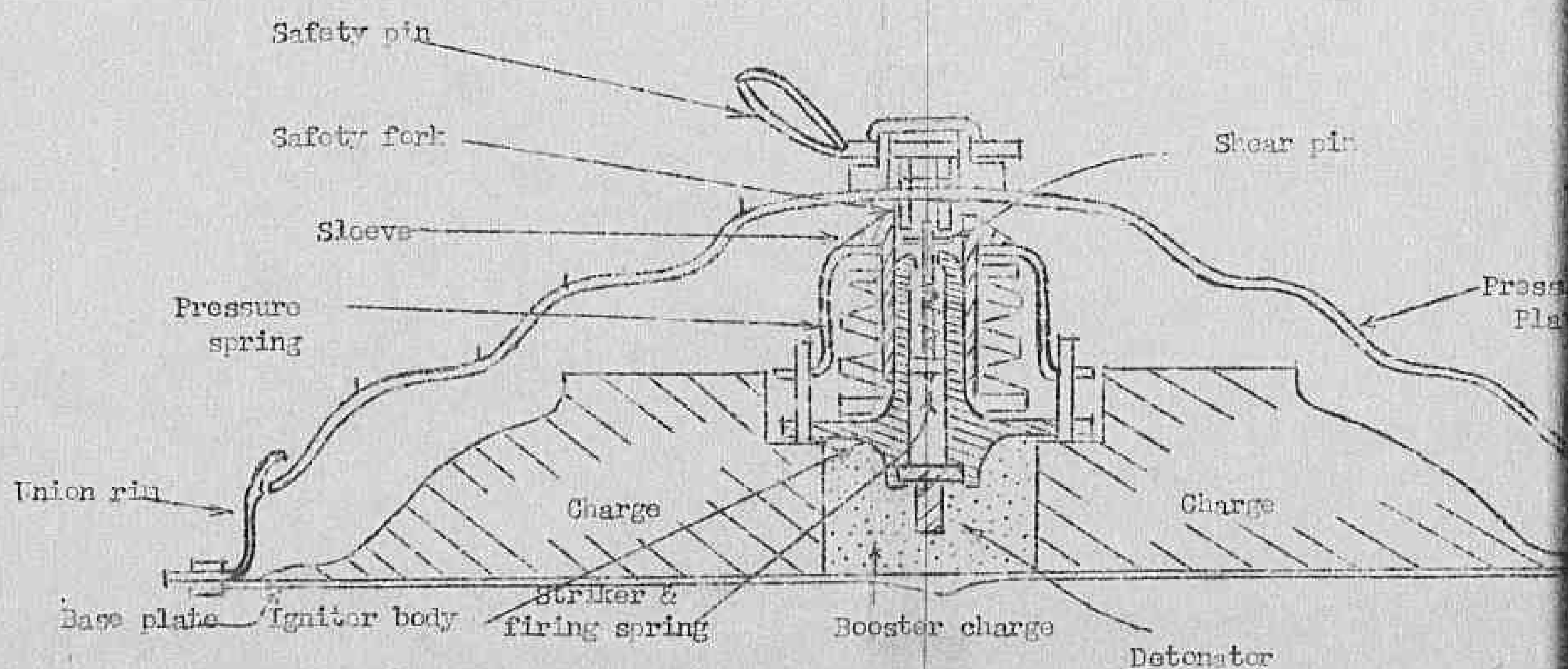
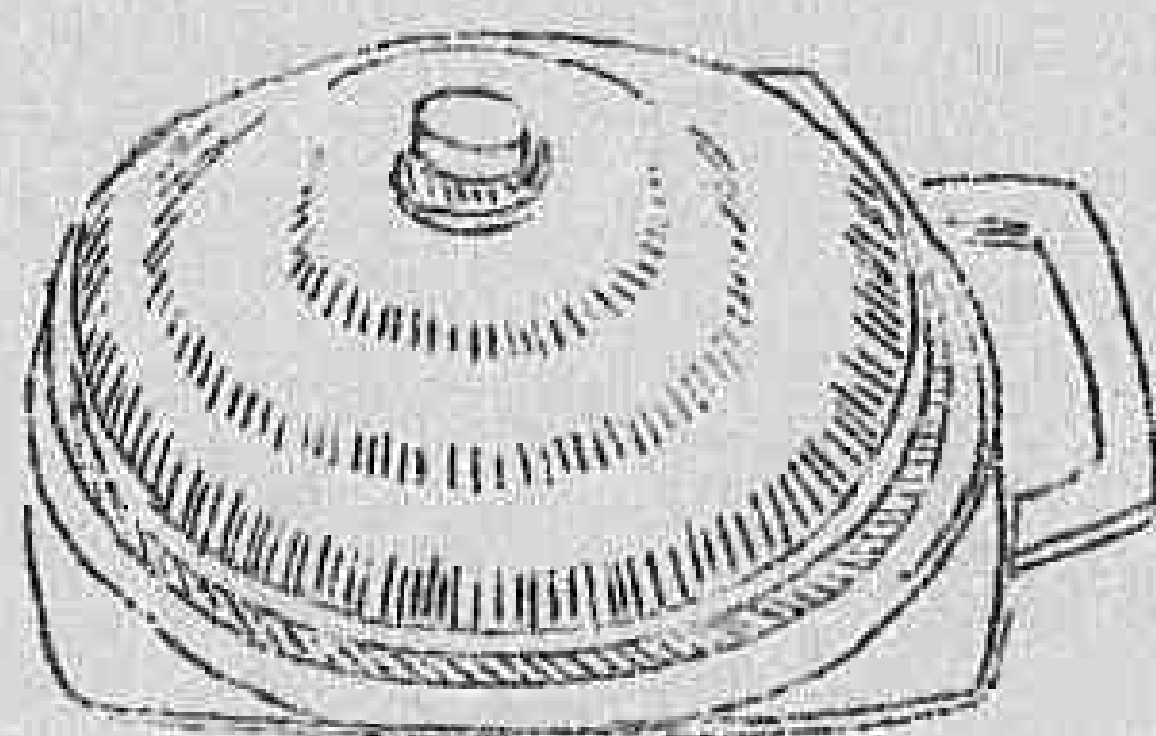
(Source: VI Corps G-2 Report No. 235)

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SECRET

6288

"HUD-CAP" MINE



SECRET

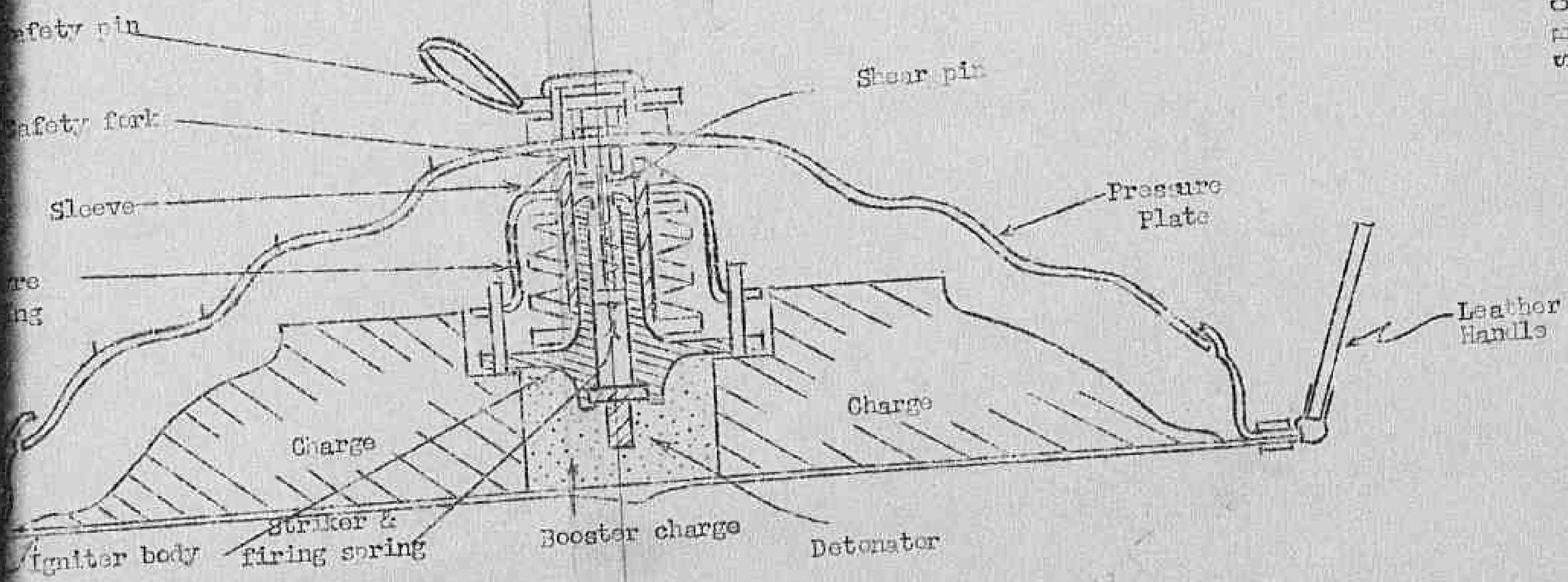
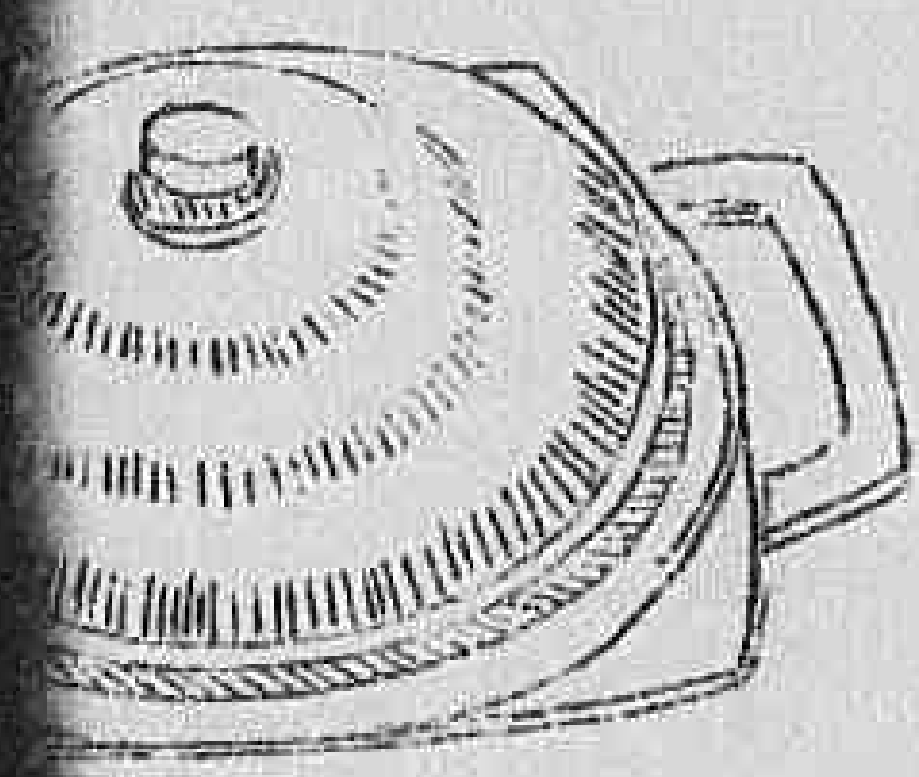
6283

785020

6283

"HUE-CAP" MINE

RECEIVED



SECRETSubject :- Engineer Intelligence - Mines52 British Liaison Unit  
CMF

16 Apr 45

RE/04/5/5

Comd  
51st Engr Bn.

Forwarded herewith is Appendix 'A' to 5th Army G-2 Report No 586, giving details of a new type of German mine found on the 5th Army Front.

Will you please return the Appendix to me as soon as possible

If any mines of this type are recovered or found during the forthcoming operations, will you please forward samples to me, giving details of the locality in which they were found (map ref) how they were laid; and the number which was found.

Captain  
S.O.R.E.

CID/aa

6287

RE Information from other arms

CE 13 Corps

Copy to: Comd

10 Ind Inf Bde  
20 Ind Inf Bde  
25 Ind Inf Bde  
ORE 13 Corps Tps  
52 BLU  
53 BLU

G

AQ  
RA  
Sigs  
Pro  
1 NF  
J Service

5 Ind Fd Coy  
10 Ind Fd Coy  
61 Ind Fd Coy  
41 Ind Fd Pk Coy  
A Ind Div Br Pl  
War Diary (3)

SECRETHQRE 10 Ind Div  
CMFNo I/19/E  
12 Apr 45

RE/04/5

Report from RA Air OP 12 Apr 45

Bridges blown 119260 135294  
104259 044273, MOLINO NUOVO 0229 2 spans blown  
027292.

Road blown 116235, 117238, 121243, 059279, 125258, 128264.

8 blows between 143274 - 149283

Blows at 154238, 148243, 151249, 153265.

5 blows on POW ROUTE from OL 7288 to 044312

9 blows on SELLUSTRA road from BOSCHI to 067286

2 HLI report demolition at BOSCHI 044274 confirmed. Possible diversion could be made.

'33

*Kat...*  
for Major RE  
Orig ORE 10 Ind Div

6286

*RE/04/45*  
SECRETHEADQUARTERS II CORPS  
APO 19 U. S. ARMYSECRET  
: By authority of:  
: C. G., II Corps:  
: Initials: *[Signature]*:  
: Date: 7 Apr /45:

7 April 1945

OPERATIONS MEMORANDUM)

NUMBER 13)

REMOVAL OF DEMOLITIONS, MINES AND WIRE

1. Removal of demolitions, mines and wire in areas rear of battalion reserve positions is authorized as desired by Division Commanders subject to the following restrictions:

a. Only those that interfere with preparations for the offensive will be removed.

b. Appearance of the area will remain unchanged. Work will be done at night.

2. Removal of mines and wire in more forward positions is limited to those areas the clearing of which is essential for the attack. Work will be done at the last possible moment prior to the attack.

BY COMMAND OF MAJOR GENERAL KEYES:

JOHN M. WILLEMS,  
Colonel, G.S.C.,  
Chief of Staff.

OFFICIAL:

*[Signature]*  
R. J. BUTCHERS,  
Colonel, G.S.C.,  
A.C. of S., G-3.DISTRIBUTION:  
"Special"

5-7-45

7 Apr 45: 30

SECRET

6285

BL/cu.

GRUPPO DI COMBATTIMENTO "LEGNANO"  
 = Comando 51° Battaglione Genio =  
 ~~~~~

n° 2542 di prot.

P.M. 155,11 31 Marzo 1945

O s s e t t o / Situazione della strada da 927273 a 943274. =

AL CAPITANO DAVIES

52° British Liaison Unit

~~~~~

Trasmetto i seguenti dati *per la strada da 927273 a 943274*

|                                                                |      |
|----------------------------------------------------------------|------|
| - Strada finita.....m.                                         | 330  |
| - Strada inghiaiaata con cunette fatte ma non rivestite.....m. | 390  |
| - Strada inghiaiaata senza cunette.....m.                      | 825  |
| - Strada <sup>non</sup> inghiaiaata con cunette.....m.         | 70   |
| - Strada non inghiaiaata senza cunette.....m.                  | 1690 |

TOTALE LUNGHEZZA STRADA.....m. 3215

IL COMANDANTE DEL BATTAGLIONE a f.s.  
 Maggiore Enzo Vescovini



O g g e t t o / Situazione della strada da 927273 a 943274.-

AL CAPIANO DAVIES

52° British Liaison Unit

.....

Trasmetto i seguenti dati *per la strada da 926730 a 943274*

|                                                           |         |
|-----------------------------------------------------------|---------|
| - Strada finita.....                                      | m. 330  |
| - Strada inghiata con cunette fatte ma non rivestite..... | m. 300  |
| - Strada inghiata senza cunette.....                      | m. 825  |
| - Strada inghiata con cunette.....                        | m. 70   |
| - Strada non inghiata senza cunette.....                  | m. 1690 |

TOTALE LUNGHEZZA STRADA.....m. 3215

IL COLONNATO DEL BATTAGLIONE *di f. a*

*Maggiore Enzo Vescovini*



6284

RESTRICTED

HEADQUARTERS FIFTH ARMY  
APO 464  
US ARMYOPERATIONS MEMORANDUM  
NUMBER 11

6 April 1945

BUTTERFLY BOMB CLUSTERS

1. Attached is a report and marked map indicating the location of butterfly bomb clusters dropped by units of the XXII TAC during the period 20 September 1944 to 27 March 1945.
2. Information contained in the attached report will be disseminated to all troops under command of the Fifth Army. It is proposed that reports similar to the one attached be published for future months.
3. The areas described in the attached report will be avoided, whenever possible, by units until such time as bomb disposal personnel have disposed of such bombs. All troops will be warned of the danger involved in picking up, moving or in any way disturbing these bombs. The slightest jar inflicted on a non-disturbance bomb will result in detonation with deadly effect to personnel within a radius of 30 yards.
4. A description of the bomb follows: The 4 lb. fragmentation bomb (butterfly bomb) is a copy of the German butterfly bomb. It is constructed of  $\frac{1}{4}$ " drawn steel sections welded together by the arc-welding method. It has a cylindrical body  $3\frac{1}{4}$ " long and 3" in diameter and contains seven (7) ounces of TNT. Two spring-activated, semi-cylindrical case sides, and two canted, spring-activated case ends are folded down over the body when clustered. This butterfly mechanism is attached to the bomb through a cable assembly and the fuse. Three different fuses are used to activate this bomb; air or ground burst, 30 minute delay, and non-disturbance. The bomb is readily recognizable because of the distinctive "butterfly like" appearance and the cable assembly. Photo of the bomb is attached.
5. The bomb cluster when dropped from a plane is set to burst at varying altitudes and scatters the butterfly bombs over a large area. Approximately one-third of the number of bombs which were dropped, as indicated on the attached report, are fused with the non-disturbance fuse which is armed upon impact with the ground and will detonate thereafter if disturbed in the slightest.

BY COMMAND OF LIEUTENANT GENERAL TRUSCOTT:

OFFICIAL:

DON E. CARLTON  
Brigadier General, GSC  
Chief of Staff

6283

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4. A description of the bomb follows: The 4 lb. fragmentation bomb (butterfly bomb) is a copy of the German butterfly bomb. It is constructed of  $\frac{1}{2}$ " drawn steel sections welded together by the arc-welding method. It has a cylindrical body  $3\frac{1}{4}$ " long and 3" in diameter and contains seven (7) ounces of TNT. Two spring-activated, semi-cylindrical case sides, and two canted, spring-activated case ends are folded down over the body when clustered. This butterfly mechanism is attached to the bomb through a cable assembly and the fuse. Three different fuses are used to activate this bomb: air or ground burst, 30 minute delay, and non-disturbance. The bomb is readily recognizable because of the distinctive "butterfly like" appearance and the cable assembly. Photo of the bomb is attached.
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BY COMMAND OF LIEUTENANT GENERAL TRUSCOTT:

OFFICIAL:

*M. F. Grant*

M. F. GRANT  
Colonel, AGD  
Adjutant General

DON E. CARLETON  
Brigadier General, GSC  
Chief of Staff

6283

2 Incls

1. Report w/map
2. Photo of Butterfly Bomb

DISTRIBUTION:

R

All Troops

RESTRICTED

*See C.D.*  
*Schedule Map Attached*  
*C.D. 744*

RESTRICTED

BUTTERFLY BOMBS DROPPED

Period 20 Sept 1944 - 27 March 1945

| <u>No. of Bombs</u> | <u>Target</u>                     | <u>Location</u> |
|---------------------|-----------------------------------|-----------------|
| 720                 | ORA RR Bridge                     | A-9155          |
| 360                 | Road                              | A-9343✓         |
| 180                 | RR Bridge                         | A-698037✓       |
|                     | <u>"A" GRID SQUARE</u>            |                 |
| 2340                | RR Bridge SAGILE                  | B-839076        |
| 360                 | Lime Dump                         | B-9216          |
| 720                 | RR Bridge                         | B-988066        |
| 18450               | FORDEWONE RR Diversion            | B-9907          |
|                     | <u>"B" GRID SQUARE</u>            |                 |
| 360                 | Road                              | C-0811          |
| 8260                | CASARSA RR Diversion              | C-1508          |
|                     | <u>"C" GRID SQUARE</u>            |                 |
| 720                 | San Benedetto Crossing            | P-5412✓         |
| 360                 | Road Bridge                       | P-9755✓         |
| 360                 | Road                              | - P-8927        |
| 360                 | Ponten Bridge                     | P-4313          |
| 360                 | River Crossing                    | P-5513          |
| 360                 | River Crossing                    | P-4413          |
| 360                 | S. bank of PO                     | P-8511✓         |
| 360                 | Road                              | P-1009✓         |
| 360                 | Crossing                          | P-5713✓         |
| 360                 | Crossing                          | P-548119✓       |
| 1080                | Crossing                          | P-566128✓       |
| 1080                | Crossing                          | P-564128✓       |
| 1080                | Crossing                          | P-5613✓         |
| 360                 | Ponten Bridge                     | P-9866✓         |
| 360                 | Road Lights                       | P-5164✓         |
| 5760                | SAN AMEROGIO RR, Fill, & Crossing | P-5263✓         |
| 2790                | Rail Line & RR Bridge             | P-6158✓         |
| 6120                | VERONA Rail Bridge                | P-6159✓         |
| 360                 | VERONA W/Y                        | P-3651✓         |
| 180                 | Road                              | P-6690✓         |
| 360                 | Rails                             | P-8112✓         |
| 360                 | Road                              | P-454112✓       |
| 360                 | PO Crossing                       | P-1704✓         |
| 720                 | CASALMAGGIORE W/C                 | P-9655✓         |
| 3240                | MONTEBELLO Rail Bridge            | P-6928✓         |
| 360                 | W/Y                               | P-8808✓         |
| 360                 | RR Station                        | P-1806✓         |
| 720                 | CASALMAGGIORE Bridge              | P-5037✓         |

"B" GRID SQUARE

RR Bridge SLOVE  
Limo Dump  
RR Bridge  
FORNENONE RR Diversion

"C" GRID SQUARE

Road  
CASALISA RR Diversion

"D" GRID SQUARE

San Benedetto Crossing

Road Bridge

Road

Ponten Bridge

River Crossing

River Crossing

S. bank of PO

Road

Crossing

Crossing

Crossing

Crossing

Ponten Bridge

Road Lights

SAN AMEROGIO RR, Fill, & Crossing

Rail Line & RR Bridge

VERONA Rail Bridge

VERONA W/Y

Road

Rails

Road

PO Crossing

CASALMAGGIORE R/C

MONTEBELLO Rail Bridge

M/Y

RR Station

CASALMAGGIORE Bridge

Highway

Road Bridge

Road Bridge

RR Loading Point

RR Loading Point

Fuel Dump

SAN MARGHERITA Bridge

RESTRICTED

B-839076  
B-9216  
B-988066  
B-9907

C-0811  
C-1508

F-5412

F-9755

-F-8927

-F-4313

F-5513

F-4413

F-8511

F-1009

F-5713

F-548119

F-566128

F-564128

F-5613

F-9866

F-5154

F-5263

F-6158

F-6159

F-3651

F-6690

F-8112

F-454112

F-1704

F-9655

F-8928

F-8808

F-1806

F-8508

F-7318

F-8413

F-475260

F-637476

F-503657

F-684926

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RESTRICTED  
"F" GLEP SQUARE (cont'd)  
Forest

No. of Bombs

|          |                                |
|----------|--------------------------------|
| /520 -   | VILLAFRANCA Ammo Dump          |
| /640 -   | GHEDI Ammo Dump                |
| /180 -   | Lights                         |
| /80 -    | Lights                         |
| /60 -    | Lights                         |
| /60 -    | Lights                         |
| /40 -    | Lights                         |
| /40 -    | Lights                         |
| /20 -    | Lights                         |
| /80 -    | Lights                         |
| /80 -    | Lights                         |
| /200 -   | Lights                         |
| /360 -   | Railroad                       |
| /360 -   | RR and Road Bridge             |
| /90 -    | Road Bridge, north approach    |
| /6480 -  | BORGOFORTE Crossing            |
| /270 -   | Road                           |
| /90 -    | Road                           |
| /360 -   | Road                           |
| /360 -   | Road                           |
| /360 -   | Road                           |
| /990     | RR and CERERA town             |
| /360 -   | Salvood                        |
| /360 -   | Salvood                        |
| /13590 - | COSTIGLIA Crossing             |
| /360 -   | Road Junction SE part ISOLA    |
| /360 -   | Road                           |
| /360 -   | Railroad                       |
| /270 -   | RR Bridge                      |
| /360 -   | Railroad                       |
| /1440 -  | BOVCIONE M/Y                   |
| /2430 -  | CASA DI DAVID M/Y              |
| /180     | Road                           |
| /180     | Road                           |
| /360 -   | RR Diversion                   |
| /6120 -  | ISOLA DI SCALE M/Y             |
| /360 -   | Road                           |
| /450 -   | Railroad                       |
| /360 -   | Railroad                       |
| /5760 -  | IEGNAGO M/Y                    |
| /90 -    | Ferry Point                    |
| /360 -   | Road and RR Junction           |
| /360 -   | Crossing                       |
| /360 -   | RR and East of town            |
| /360 -   | Railroad                       |
| /360 -   | RR at North edge town          |
| /360 -   | RR 1 mile N. of CLIA DI SCILIA |
| /2430 -  | NOGARA M/Y                     |
| /90 -    | Salvood                        |
| /4590 -  | VILLAFRANCA M/Y                |
| /360 -   | RONCINOVI M/Y                  |
| /270 -   | Salvood                        |

Location

F-5244✓  
 F-0857✓  
 F-1122✓  
 F-4710✓  
 F-7844✓  
 F-6554✓  
 F-3114✓  
 F-3453✓  
 F-0936✓  
 F-1809✓  
 F-3723✓  
 F-7610✓  
 F-6453✓  
 F-5370✓  
 F-5559✓  
 F-4411✓  
 F-8408✓  
 F-7503✓  
 F-6487✓  
 F-8817✓  
 F-4355✓  
 F-8126✓  
 F-3812✓  
 F-8500✓  
 F-7512✓  
 F-6537✓  
 F-6558✓  
 F-4155✓  
 F-4255✓  
 F-7125✓  
 F-7433✓  
 F-6247✓  
 F-4213✓  
 F-4016✓  
 F-6041✓  
 F-6535✓  
 F-6827✓  
 F-7221✓  
 F-5127✓  
 F-8825✓  
 F-3909✓  
 F-6540✓  
 # F-1705✓  
 F-8725✓  
 F-6638✓  
 F-5349✓  
 F-6635✓  
 F-7025✓  
 F-7619✓  
 F-5344✓  
 " F-7271✓  
 F-4827✓  
 F-8926✓

|          |                             |           |
|----------|-----------------------------|-----------|
| ✓80 -    | Lights                      | F-7610✓   |
| ✓200 -   | Lights                      | F-6453✓   |
| ✓360 -   | Railroad                    | F-5370✓   |
| ✓360 -   | RR and Road Bridge          | F-5559✓   |
| ✓90 -    | Road Bridge, north approach | F-4411✓   |
| ✓6480 -  | BORGOFORTE Crossing         | F-8408✓   |
| ✓270 -   | Road                        | F-7503✓   |
| ✓90 -    | Road                        | F-6487✓   |
| ✓360 -   | Road                        | F-8817✓   |
| ✓360 -   | Road                        | F-4355✓   |
| ✓360 -   | Road                        | F-8126✓   |
| ✓990 -   | RR and CERERA town          | F-3812✓   |
| ✓360 -   | Salvoed                     | F-8500✓   |
| ✓360 -   | Salvoed                     | F-7512✓   |
| ✓13590 - | CSTIGLIA Crossing           | F-6537✓   |
| ✓360 -   | Road Junction SE part ISOLA | F-6558✓   |
| ✓360 -   | Road                        | F-4155✓   |
| ✓360 -   | Railroad                    | F-4255✓   |
| ✓270 -   | RR Bridge                   | F-7125✓   |
| ✓360 -   | Railroad                    | F-7433✓   |
| ✓1440 -  | BOVICONE M/Y                | F-6247✓   |
| ✓2430 -  | CASA DI DAVID M/Y           | F-4213✓   |
| ✓180 -   | Road                        | F-4016✓   |
| ✓180 -   | Road                        | F-6041✓   |
| ✓360 -   | RR Diversion                | F-6535✓   |
| ✓6120 -  | ISOLA DI SCALE M/Y          | F-6827✓   |
| ✓360 -   | Road                        | F-7221✓   |
| ✓450 -   | Railroad                    | F-5127✓   |
| ✓360 -   | Railroad                    | F-8825✓   |
| ✓5760 -  | LEGNA M/Y                   | F-3909✓   |
| ✓90 -    | Ferry Point                 | F-6540✓   |
| ✓360 -   | Road and RR Junction        | * F-1705✓ |
| ✓360 -   | Crossing                    | F-8725✓   |
| ✓360 -   | RR and East of town         | F-6638✓   |
| ✓360 -   | Railroad                    | F-5349✓   |
| ✓360 -   | RR at North edge town       | F-6635✓   |
| ✓360 -   | RR 1 mile N. SCALA DI SCALA | F-7025✓   |
| ✓2430 -  | NOGARA M/Y                  | F-7619✓   |
| ✓90 -    | Salvoed                     | F-5344✓   |
| ✓4590 -  | VILLAFRANCA M/Y             | F-7271✓   |
| ✓360 -   | RONCANOVA M/Y               | F-4827✓   |
| ✓270 -   | Salvoed                     | F-8926✓   |
| ✓990 -   | RJ LEGNA, Bridge & Railroad | F-4405✓   |
| ✓360 -   | Town                        | F-9717✓   |
| ✓360 -   | Railroad Siding             | F-5818✓   |
| ✓90 -    | Road                        | F-4448✓   |
| ✓360 -   | Railroad                    |           |
| ✓360 -   | Salvoed                     | G-4847✓   |
| ✓360 -   | Salvoed                     | G-3310✓   |

"G" GRID SQUARE

RESTRICTED

2

## RESTRICTED

"G" GRID SQUARE (cont'd)

| No. of Bombs | Target                          | Location             |
|--------------|---------------------------------|----------------------|
| ✓360         | Bridge                          | G-3301 ✓             |
| ✓360         | Road Junction                   | G-2512 ✓             |
| ✓9630        | CITTADELLA RR Diversion         | G-2373 ✓             |
| ✓360         | Road                            | G-5078 ✓             |
| ✓360         | RR                              | G-3159 ✓             |
| ✓360         | CASTELFRANCO Rail Loading Point | G-381759 ✓           |
| ✓360         | Highway                         | G-1503 ✓             |
| ✓1980        | Rail Loading Point              | G-2764 ✓             |
| ✓1800        | Rail Loading Point              | G-386670 ✓           |
| ✓1800        | Rail Loading Point              | G-6265 Not on map.   |
| ✓2070        | Rail Loading Point              | G-2875 ✓             |
| ✓360         | Lights                          | G-4248 ✓             |
| ✓720         | Rail Loading Point              | G-361594 ✓           |
| ✓1440        | Rail Loading Point              | G-2058 ✓             |
| ✓180         | Rail Bridge                     | G-143686 ✓           |
| ✓180         | Rail Bridge                     | G-539613 Not on map. |
| ✓1440        | Rail Loading Point              | G-386669 ✓           |
| ✓720         | ROVIGO M/Y                      | G-255155 ✓           |
| ✓2790        | Railways in CASTELFRANCO        | G-3877 ✓             |
| ✓360         | RR Station                      | G-3966 ✓             |
| ✓10080       | NERVESA RR Diversion            | G-6493 off map.      |
| ✓360         | Through Overcast                | G-150084 ✓           |
| ✓180         | Lights                          | G-3258 ✓             |
| ✓180         | Lights                          | G-1660 ✓             |
| ✓720         | RR Diversion                    | G-7981 off map.      |
| ✓360         | RR Diversion                    | G-8872 ✓             |
| ✓720         | PADUA Ammo Dump                 | G-3148 ✓             |
| ✓360         | CITTADELLA RR Diversion         | G-280760 ✓           |
| ✓180         | Secondary Crossing              | G-8474 off map.      |
| ✓180         | RR, Road Intersection           | G-4152 ✓             |
| ✓90          | Road                            | G-7562 off map.      |
| ✓90          | Road                            | G-4760 ✓             |
| ✓720         | RR Bridge, RR Diversion         | G-625935 off map.    |
| ✓360         | RR Diversion                    | G-929888 ✓           |
| ✓180         | Lights                          | G-0224 ✓             |
| ✓360         | Lights                          | G-4535 ✓             |
| ✓360         | Road Junction                   | G-6157 off map.      |
| ✓360         | Road                            | G-4707 ✓             |
| ✓360         | Salvage                         | G-3555 ✓             |
| ✓360         | Road                            | G-8082 off map.      |
| ✓3240        | CITTADELLA M/Y                  | G-2775 ✓             |
| ✓360         | Railroad                        | G-3473 ✓             |
| ✓6120        | CASTELFRANCO M/Y                | G-3977 ✓             |
| ✓360         | Highway                         | G-4978 ✓             |
| ✓360         | Fire at PADUA                   | G-3450 ✓             |
| ✓360         | Road Intersection               | G-5358 off map.      |
| ✓360         | Railroad                        | G-1870 ✓             |

"K" GRID SQUARE

G-6265 Not on map.  
 G-2875 ✓  
 G-4248 ✓  
 G-361594 ✓  
 G-2058 ✓  
 G-143686 ✓  
 G-539613 Not on map.  
 G-386669 ✓  
 G-255155 ✓  
 G-3877 ✓  
 G-3966 ✓  
 G-6493 off map.  
 G-150084 ✓  
 G-3258 ✓  
 G-1660 ✓  
 G-7981 off map.  
 G-8872 ✓  
 G-3148 ✓  
 G-280760 ✓  
 G-8474 off map.  
 G-4152 ✓  
 G-7562 off map.  
 G-4760 ✓  
 G-625935 off map.  
 G-929888 ✓  
 G-0224 ✓  
 G-4535 ✓  
 G-6157 off map.  
 G-4707 ✓  
 G-3555 ✓  
 G-8082 off map.  
 G-2775 ✓  
 G-3473 ✓  
 G-3977 ✓  
 = G-4978 ✓  
 G-3450 ✓  
 G-5358 off map.  
 G-1870 ✓

6283  
 K-4322 ✓  
 K-3523 ✓  
 K-2298 off map.  
 K-3423 ✓  
 K-6917 ✓  
 K-5689 ✓  
 K-7558 ✓  
 K-9540 ✓  
 K-6546 ✓  
 K-8244 ✓  
 K-5561 ✓  
 K-7655 ✓  
 K-9032 ✓

Rail Loading Point  
 Rail Loading Point  
 Lights  
 Rail Loading Point  
 Rail Loading Point  
 Rail Bridge  
 Rail Bridge  
 Rail Loading Point  
 ROVIGO W/Y  
 Railways in CASTELFRANCO  
 RR Station  
 MERVESA RR Diversion  
 Through Overcast  
 Lights  
 Lights  
 RR Diversion  
 RR Diversion  
 P.DUA Arco Dump  
 CITTADELLA RR Diversion  
 Secondary Crossing  
 RR, Road Intersection  
 Road  
 Road  
 RR Bridge, RR Diversion  
 RR Diversion  
 Lights  
 Lights  
 Road Junction  
 Road  
 Salwood  
 Road  
 CITTADELLA W/Y  
 Railroad  
 CASTELFRANCO W/Y  
 Highway  
 Fire at P.DUA  
 Road Intersection  
 Railroad

# "K" GRID SQUARE

PO Crossing  
 PO Crossing  
 Road Junction  
 PO Crossing  
 PLACENZA PO Crossing  
 BENCANO/SENIATE Arco Dump  
 Lights  
 Lights  
 Lights, W/T  
 Lights, W/T  
 Lights  
 Lights  
 Lights

✓360  
 ✓360  
 ✓180  
 ✓630  
 ✓720  
 ✓300  
 ✓40  
 ✓40  
 ✓40  
 ✓100  
 ✓80  
 ✓60  
 ✓60

RESTRICTED

## RESTRICTED

"K" GRID SQUARE (cont'd)

| No. of Bombs | Target  | Location |
|--------------|---------|----------|
| ✓40          | M/T     | K-6012 ✓ |
| ✓100         | M/T     | K-4118 ✓ |
| ✓60          | 10 M/T  | K-6315 ✓ |
| ✓80          | Beacon  | K-4643 ✓ |
| ✓20          | Lights  | K-3354 ✓ |
| ✓200         | Salvage | K-7929 ✓ |
| ✓360         | Road    | K-8806 ✓ |

"L" GRID SQUARE

|      |                                 |              |
|------|---------------------------------|--------------|
| ✓360 | Salvage                         | L-9994 ✓     |
| ✓360 | Salvage                         | L-5668 ✓     |
| ✓360 | REGGIO                          | L-3374 ✓     |
| 360  | Along Hwy 9, MODENA-BOLOGNA     | L-2498       |
| 360  | VIA DANA Ferry                  | L-7885       |
| 360  | Salvage                         | L-2598       |
| 130  | Road                            | L-3097       |
| 108  | Road                            | L-3499       |
| 360  | Crossing                        | L-2498       |
| 540  | Pontoon Bridge                  | L-2298       |
| 540  | Road and Rail Crossing          | L-9798       |
| 360  | PO River Crossing               | L-2797       |
| 360  | VIA DANA                        | L-9898       |
| 360  | Road parallel to PO             | L-477260     |
| 360  | Rail Loading Point              | L-2191       |
| 60   | Lights                          | S. of MODENA |
| 280  | Salvage                         | L-2395       |
| 120  | Lights                          | L-0573       |
| 360  | Railroad                        | L-6761       |
| 360  | Hwy 9, 1 mile NE C. STELLERANCO | L-6363       |
| 360  | Road                            | L-4738       |
| 360  | Salvage                         | L-1686       |
| 90   | Salvage                         | L-4565       |
| 360  | RR Bridge                       | L-1882       |
| 360  | Road Junction                   | L-6887       |
| 360  | Road & RR Bridge NE edge MODENA | L-5668       |
| 360  | RR Siding                       | L-2574       |
| 360  | Road                            | L-0487       |
| 360  | Road                            | L-3951       |
| 360  | Town                            | L-7588       |

"M" GRID SQUARE

|     |                |             |
|-----|----------------|-------------|
| 360 | River Crossing | M-1293      |
| 360 | Salvage        | Vic FERRARA |
| 180 | Lights         | M-2297      |
| 360 | Pontoon Bridge | M-1493      |

"P" GRID SQUARE

L-9894 ✓  
 L-5668 ✓  
 L-3374 ✓  
 L-2498  
 L-7885  
 L-2598  
 L-3097  
 L-3499  
 L-2498  
 L-2298  
 L-9798  
 L-2797  
 L-9898  
 L-477260  
 L-2191  
 S. of MODENA  
 L-2395  
 L-0573  
 L-6761  
 L-6363  
 L-4738  
 L-1686  
 L-4565  
 L-1882  
 L-6887  
 L-5668  
 L-2574  
 L-0487  
 L-3951  
 L-7588

M-1293  
 Vic FERRARA  
 M-2297  
 M-1493

P-2734  
 P-9691  
 P-9526  
 P-3035  
 P-4227  
 P-3131  
 P-3332  
 P-6120  
 P-9878  
 P-6312

Salvood  
 Salvood  
 REGGIO  
 Along Hwy 9, MODENA-BOLOGNA  
 VIADANA Ferry  
 Salvood  
 Road  
 Road  
 Crossing  
 Ponton Bridge  
 Road and Rail Crossing  
 PO River Crossing  
 VILL.M.  
 Road parallel to PO  
 Rail Loading Point  
 Lights  
 Salvood  
 Lights  
 Railroad  
 Hwy 9, 1 mile NE CASTELFRANCO  
 Road  
 Salvood  
 Salvood  
 Salvood  
 RR Bridge  
 Road Junction  
 Road & RR Bridge NE edge MODENA  
 RR Siding  
 Road  
 Road  
 Town

#### WM GRID SQUARE

River Crossing  
 Salvood  
 Lights  
 Ponton Bridge

#### WM GRID SQUARE

Road  
 Lights  
 Road  
 Salvood  
 Road  
 Road  
 Road  
 Salvood  
 Railroad  
 Road

RESTRICTED

ANNEX NO. 2 TO MINERFIELD OVERLAY

ENEMY MINIFIELDS

(In Area: 85 to 00 Easting -- 30 (& Up) Northing)

27 december 1944

| Field Map No. | Coord.  | Info From                | Reported By           | Description of Field                                                                    |
|---------------|---------|--------------------------|-----------------------|-----------------------------------------------------------------------------------------|
| 1.            | X883333 | G-2 18 Oct               | 91 Div                | (Info fr captured map) Locations for controlled minefields on Highway 65.               |
| 2             | X882337 | "                        | "                     | " " " " " " " " " " " "                                                                 |
| 3             | X883341 | "                        | "                     | " " " " " " " " " " " "                                                                 |
| 4             | X883385 | "                        | "                     | " " " " " " " " " " " "                                                                 |
| 5             | X896416 | "                        | "                     | " " " " " " " " " " " "                                                                 |
| 6             | X918307 | G-2 18 Oct               |                       | No Details                                                                              |
| 7             | X917312 | G-2 18 Oct               | P W                   | Road prepared for mines on 15 Oct.                                                      |
| 8             | X917312 | G-2 17 Oct               | Patrol?               | Probably same field as above - Booby trap-ped Teller mines in road.                     |
| 9             | X923317 | G-2 20 Oct               | P W                   | AT mines on trail leading NW from Pietrfitta.                                           |
| 10            | X927317 | G-2 21 Oct               |                       | Box mines                                                                               |
| 11            | X890303 | G-2 22 Oct               |                       |                                                                                         |
| 12            | X904324 | G-2 22 Oct               | XXXXXXATXNNXAPXminesX |                                                                                         |
| 13            | X905325 | G-2 22 Oct               | Civilian              | AT and AP mines                                                                         |
| 14            | X875244 | II Corps Engr Rpt 21 Oct |                       |                                                                                         |
| 15            | X876311 | "                        |                       | East of Road                                                                            |
| 16            | X878307 | "                        |                       | West of Road                                                                            |
| 17            | X915309 | "                        |                       | West of Road                                                                            |
| 18            | X916313 | "                        |                       | West of Road                                                                            |
| 19            | X925355 | "                        |                       | East of Road                                                                            |
| 20            | X924271 | "                        |                       | West of Road                                                                            |
| 21            | X924275 | "                        |                       | West of Road                                                                            |
| 22            | X928295 | "                        |                       | West of Road                                                                            |
| 23            | X936235 | "                        |                       | West of Road                                                                            |
| 24            | X946273 | "                        |                       | North and West of road.                                                                 |
| 25            | X962258 | "                        |                       | West of road.                                                                           |
| 26            | X903327 | G-2 23 Oct               |                       | Extends to SE slopes of M Belmonte                                                      |
| 27            | X901325 | G-2 23 Oct               |                       | One mine 4"x5"x36" R-43 pressure type booby trap.                                       |
| 28            | X923318 | G-2 23 Oct               | P W                   | AT mines laid in path leading NW from 923318 and along road leading NW from this point. |
| 29            | X908313 | G-2 24 Oct               |                       | AT Mines                                                                                |
| 30            | X981332 | G-2 27 Oct               | 91 Div                | AT Mines                                                                                |
| 31            | X907328 | G-2 27 Oct               | P W s                 | Road along this entire stretch has holes dug and mines ready to be laid.                |
| 32            | X919339 |                          |                       |                                                                                         |
| 33            | X930326 | G-2 30 Oct               |                       | Shu Mines                                                                               |

|    |        |               |        |               |                                                                                         |
|----|--------|---------------|--------|---------------|-----------------------------------------------------------------------------------------|
| 7  | 911312 | G-2           | 13 Oct | P W           | Road prepared for mines on 13 Oct.                                                      |
| 8  | 917312 | G-2           | 17 Oct | Patrol?       | Probably same field as above - Booby trap ped Teller mines in road.                     |
| 9  | 923317 | G-2           | 20 Oct | P W           | AT mines on trail leading NW from Pietrretta.                                           |
| 10 | 927317 | G-2           | 21 Oct |               | Box mines                                                                               |
| 11 | 930303 | G-2           | 22 Oct |               |                                                                                         |
| 12 | 904324 | G-2           | 22 Oct | XXXXXXXXXXXXX | AP mines                                                                                |
| 13 | 905325 | G-2           | 22 Oct | Civilian      | AT and AP mines                                                                         |
| 14 | 875244 | II Corps Engr |        |               |                                                                                         |
| 15 | 876311 | Rpt 21 Oct    |        |               |                                                                                         |
| 16 | 878307 | "             |        |               | East of Road                                                                            |
| 17 | 915309 | "             |        |               | West of Road                                                                            |
| 18 | 915313 | "             |        |               | West of Road                                                                            |
| 19 | 925355 | "             |        |               | East of Road                                                                            |
| 20 | 924271 | "             |        |               | West of Road                                                                            |
| 21 | 924275 | "             |        |               | West of Road                                                                            |
| 22 | 928295 | "             |        |               | West of Road                                                                            |
| 23 | 936235 | "             |        |               | West of Road                                                                            |
| 24 | 945273 | "             |        |               | North and West of road.                                                                 |
| 25 | 952258 | "             |        |               | West of road.                                                                           |
| 26 | 903327 | G-2           | 23 Oct |               | Extends to SE slopes of M Belmonte                                                      |
| 27 | 901325 | G-2           | 23 Oct |               | One mine 4"x5"x36" R-43 pressure type booby trap.                                       |
| 28 | 923318 | G-2           | 23 Oct | P W           | AT mines laid in path leading NW from 923318 and along road leading NE from this point. |
| 29 | 908313 | G-2           | 24 Oct |               | AT Mines                                                                                |
| 30 | 981332 | G-2           | 27 Oct | 91 Div        | AT Mines                                                                                |
| 31 | 907328 | G-2           | 28 Oct | P W S         | Road along this entire stretch has holes dug and mines ready to be laid.                |
| 32 | 930326 | G-2           | 30 Oct |               | Shu Mines                                                                               |
| 33 | 932326 | G-2           | 30 Oct |               | Schu Mines                                                                              |
| 34 | 935324 | G-2           | 30 Oct |               | Schu Mines                                                                              |
| 35 | 875317 | G-2           | 30 Oct | 91 Div        | Side of Hw 65 from La Fabbica "S" and T Mines                                           |
| 36 | 914329 | G-2           | 31 Oct | 34 Div        | Patrol Mines 75 yds S of Casetta                                                        |
| 37 | 887357 | G-2           | 31 Oct | P W           | Mines in gully                                                                          |
| 38 | 957325 | G-2           | 1 Nov  | 35 Div        | AP Mines                                                                                |
| 39 | 914329 | G-2           | 1 Nov  |               | Schu Mines                                                                              |

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## ENEMY MINEFIELDS.

## ANNEX NO. 2 TO MINEFIELD OVERLAY

27 December 1944

| Field Map No. | Info Co. No. | Info From     | Reported By   | Description of Field                                         |
|---------------|--------------|---------------|---------------|--------------------------------------------------------------|
| 40            | 914330       | G-2 1 Nov     |               | 50 yds SE of Casetta around hse in draw                      |
| 41            | 907318       | G-2 2 Nov     | Civilian      | Holtz mines 3 meters apart in shoulders                      |
| 42            | 935350       | G-2 2 Nov     | Civilian      | Road heavily mined for 1 Km North                            |
| 43            | 909336       | G-2 6 Nov     | P W           | Mine near hse ( confirmed by patrol)                         |
| 44            | 908335       | G-2 6 Nov     | P W           | Mines along side of road (confirmed by patrol)               |
| 45            | 902332       | G-2 6 Nov     | P W           | Mines in gully                                               |
| 46            | 910329       | G-2 2 Nov     |               |                                                              |
| 47            | 910033       | 15            |               |                                                              |
| 47            | 903349       | G-2 3 Nov     |               | Minefield reported in Vic (Engr Rpt S-3, 109 E)              |
| 48            | 950325       | G-2 7 Nov     | 85 Div        |                                                              |
| 49            | 913333       | G-2 7 Nov     | 34 Div Patrol | Mines on W approached to Enemy position in church.           |
| 50            | 986335       | 11 Nov        | 85 Div OP     | Mines and wire                                               |
| 51            | 986533       | 52 G-2 11 Nov | 85 Div OP     | Mines and wire                                               |
| 52            | 986433       | 7 G-2 11 Nov  | 85 Div OP     | Mines and wire                                               |
| 53            | 986733       | 5 G-2 11 Nov  | 85 Div OP     | Mines and wire                                               |
| 54            | 979350       | G-2 27 Nov    | P W           | Tunnel leading S heavily mined                               |
| 55            | 901330       | G-2 3 Dec     | 34 Div Patrol | Patrol heard enemy presumably laying mines.                  |
| 56            | 988033       | 33 G-2 4 Dec  | Civilian      | Tr 850333 to Zula prepared demolitions ex both sides Hwy 65. |
| 57            | 986543       | 4 G-2 4 Dec   | Civilian      | Wire in front of house may inclose mine-field.               |
| 58            | 986543       | 4 G-2 4 Dec   | Civilian      | Road has been prepared for demolitions                       |
| 59            | 909331       | 2 Dec         |               | Defense overprint (air photo)                                |
| 60            | 911330       | "             | "             | " " " AP minefield                                           |
| 61            | 911331       | "             | "             | " " " Houses along rd are mined                              |
| 62            | 913331       | "             | "             | " " " " " AP minefield                                       |
| 63            | 914332       | "             | "             | " " " " " Road reported to be mine                           |
| 64            | 915334       | "             | "             | " " " " " Mines E and W of house                             |
| 65            | 919339       | "             | "             | " " " " "                                                    |
| 66            | 978327       | G-2 15 Dec    | P W           |                                                              |
| 67            | 978325       | G-2 15 Dec    | P W           |                                                              |

0274

|    |        |                            |               |   |                                                                  |
|----|--------|----------------------------|---------------|---|------------------------------------------------------------------|
| 43 | 909336 | G-2 6 Nov                  |               |   | Mines along side of road (confirmed by patrol)<br>Mines in gully |
| 44 | 908335 | G-2 6 Nov                  | PW            |   |                                                                  |
| 45 | 909332 | G-2 6 Nov                  | PW            |   |                                                                  |
| 46 | 910329 | G-2 2 Nov                  |               |   |                                                                  |
| 47 | 910033 | 15                         |               |   | Minefield reported in Vic (Engr Rpt S-3, 109 E)                  |
| 48 | 909334 | G-2 3 Nov                  | 65 Div        |   |                                                                  |
| 49 | 950325 | G-2 7 Nov                  | 34 Div Patrol |   | Mines on W approached to Enemy position in church.               |
| 50 | 913333 | G-2 7 Nov                  | 85 Div OP     |   | Mines and wire                                                   |
| 51 | 913335 | G-2 11 Nov                 | 85 Div Op     |   | Mines and wire                                                   |
| 52 | 913337 | G-2 11 Nov                 | 85 Div OP     |   | Mines and wire                                                   |
| 53 | 913335 | G-2 11 Nov                 | 85 Div OP     |   | Mines and wire                                                   |
| 54 | 909350 | G-2 27 Nov                 | PW            |   | Tunnel leading S heavily mined                                   |
| 55 | 901330 | G-2 3 Dec                  | 34 Div Patrol |   | Patrol heard enemy presumably laying mines.                      |
| 56 | 880333 | G-2 4 Dec                  | Civilian      |   | Fr 880333 to Zula prepared demolitions ex both sides Hwy 65.     |
| 57 | 865434 | G-2 4 Dec                  | Civilian      |   | Wire in front of house may inclose minefield.                    |
| 58 | 865434 | G-2 4 Dec                  | Civilian      |   | Road has been prepared for demolitions                           |
| 59 | 909331 | 2 Dec                      |               |   | Defense overprint (air photo)                                    |
| 60 | 911330 | "                          | "             | " | AP minefield                                                     |
| 61 | 911331 | "                          | "             | " | Houses along rd are mined                                        |
| 62 | 913331 | "                          | "             | " | AP minefield                                                     |
| 63 | 914332 | "                          | "             | " | Road reported to be mine                                         |
| 64 | 915334 | "                          | "             | " | Mines E and W of house                                           |
| 65 | 919339 | G-2 15 Dec                 | PW            |   |                                                                  |
| 66 | 878327 | G-2 15 Dec                 | PW            |   |                                                                  |
| 67 | 878325 | G-2 15 Dec                 |               |   | Road reported to be mined                                        |
| 68 | 875322 | Engr Rpt, 5-2 109 E 10 Dec |               |   |                                                                  |

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## ENEMY MINEFIELDS

## ANNEX 2 TO MINEFIELD OVERLAY

57 905331 G-2 20 Dec 27 October 1944  
 Minefield contains Schu & "S" mines w/trip wires  
 Mines unknown type on road

58 887328 G-2 2 Dec P W  
 Mines unknown type

59 888329 G-2 21 Dec P W  
 Mines unknown type

70 905328 S-3 Spt, 109 E 22 Dec Minefield was taped off by "C" Co, 109 E. No mines found one American Flare found  
 Enemy personnel thought to be laying mines around house  
 Stick minefield on S side of draw

71 918338 G-2 23 Dec OP  
 Schu & R-43 Mines. Field was taped off by "G" Co 109 E. Field is 150 yds x 50 yds.

72 879324 G-2 24 Dec Patrol

73 904325 S-3 xss 109E 24 Dec

74 883322 G-2 01 Dec PW  
 Mines unknown type in vineyard.

## SCHEDULE OF MINERFIELDS - LEGANO GROUP AREA.

Compiled 22 Mar 45 from Records supplied by 91 Div.

| Sector. | Serial No. | Type of Minefield. | Type of Mine. | No Mines Laid. | Remarks.                          |
|---------|------------|--------------------|---------------|----------------|-----------------------------------|
| Left    | 19-1       | A/Tk               | (?)M1.A1.     | 121            | Type NOT stated on record.        |
| "       | 19-2       | A/Tk               | (?)M1.A1.     | 397            | Lifted: 143 M1.A1                 |
| "       | 19-4       | A/Tk               | Br Mk V       | 48             | 33 Br Mk V GS                     |
| "       | 19-5       | A/Tk               | (?)M1.A1.     | 47             | Type NOT stated on record.        |
| "       | 19-6       | A/Tk               | M1.A1.        | 127            | Near German Minefield.            |
| "       | 19-7       | A/Tk               | M1.A1.        | 151            | Belt 'A' }                        |
| "       | 19-8       | A/Tk               | M1.A1.        | 10             | Belt 'B' } 288 total              |
| "       | 19-9       | A/Tk               | M1.A1.        | 10             | Belt 'C' }                        |
| Right   | 19-6       | A/Tk               | (?)M1.A1.     | 219            | Type NOT stated on record.        |
| "       | 34-23      | A/Pers             | M2            | 25             | Type NOT stated on record.        |
| "       | 34-24      | A/Tk Mixed         | M1.A1         | 72             | Type not stated on record.        |
| "       | 34-25      | A/Pers             | M2            | 7              | Minefield in 5 sections.          |
| "       | 34-26      | F                  | Flares        | 7              | Type of igniter NOT stated.       |
| Left    | 34-25      | A/Pers             | M1.A1.        | 10             | Records state 33 but details      |
| Right   | 34-26      | A/Tk Mixed         | M1.A1.        | 304            | total 32.                         |
| "       | 34-27      | A/Pers             | M3            | 33             | Records state 29, but details     |
| Right   | 34-27      | F                  | Flares        | 29             | total 28.                         |
| Right   | 34-28      | A/Pers Mixed M3    | Flares        | 9              | Loose tripwires                   |
| Right   | 34-29      | F                  | Flares        | 1              | Loose tripwires; igniter NOT std. |
| Right   | 34-30      | A/Pers             | M3            | 10             | Loose tripwires; igniter NOT std. |
| Right   | 34-31      | F                  | Flares        | 1              | Loose tripwires; igniter NOT std. |
| Right   | 34-32      | A/Pers             | M3            | 5              | Loose tripwires; igniter NOT std. |
| Right   | 34-33      | A/Pers             | M3            | 4              | Loose tripwires;                  |
| Left    | 85-2       | F                  | Flare         | 1              | type igniters NOT stated.         |
| Right   | 85-3       | Flares             | M4.8          | 2              | Tripwire operated.                |
| Right   | 85-4       | Flares             | M4.8          | 4              | "                                 |
| Right   | 85-5       | A/Pers             | M3            | 12             | Pressure igniters; IMPORTANT:-    |
| Right   | 85-6       | A/Pers             | M2            | 21             | 0 i/c Laying recommends that      |
| Right   | 85-7       | A/Pers             | M2            | 12             | these mines be blown in situ      |
| Right   | 85-8       | A/Pers             | M3            | 18             | rather than lifted.               |
| Right   | 85-9       | A/Pers             | M3            | 10             | Tripwire operated; type of        |
| Left    | 85-12      | A/Pers             | Improved      | 10             | igniter NOT stated.               |
|         |            |                    |               |                | Tripwire operated; type of        |
|         |            |                    |               |                | igniter NOT stated.               |
|         |            |                    |               |                | Tripwire operated; type of        |
|         |            |                    |               |                | igniter NOT stated.               |
|         |            |                    |               |                | Tripwire operated; type of        |
|         |            |                    |               |                | igniter NOT stated.               |
|         |            |                    |               |                | 1lb TNT blocks with pull          |
|         |            |                    |               |                | igniters; each mine connected     |

S. R. E. 52 B. L. U.

SOPR. 02 BCU

| Sector. | Serial No. | Type of Minefield. | Type of Mine. | No Mines Laid. | Remarks.                                |
|---------|------------|--------------------|---------------|----------------|-----------------------------------------|
| Left    | 19-1       | A/Tk               | (?)M1.A1.     | 121            | Type NOT stated on record.              |
| "       | 19-2       | A/Tk               | (?)M1.A1.     | 397            | Lifted: 143 M1.A1                       |
| "       | 19-4       | A/Tk               | Br Mk V       | 48             | 33 Br Mk V GS                           |
| "       | 19-5       | A/Tk               | (?)M1.A1.     | 47             | Type NOT stated on record.              |
| "       | 19-6       | A/Tk               | (?)M1.A1.     | 219            | Near German Minefield.                  |
| Right   | 34-23      | A/Pers             | M1.A1.        | 127            | Belt 'A' }                              |
| "       | 34-24      | A/Pers             | M1.A1.        | 151            | Belt 'B' } 288 total                    |
| "       | 34-25      | A/Pers             | M1.A1.        | 10             | Belt 'C' }                              |
| Left    | 34-26      | A/Pers             | (?)M1.A1.     | 219            | Type of igniter NOT stated.             |
| Right   | 34-27      | A/Pers             | M2            | 25             | Type NOT stated on record.              |
| "       | 34-28      | A/Pers             | M1.A1.        | 72             | Type not stated on record.              |
| "       | 34-29      | A/Pers             | M2            | 7              | Minefield in 5 sections.                |
| "       | 34-30      | A/Pers             | Flares        | 7              | Type of igniter NOT stated.             |
| Left    | 34-31      | A/Pers             | Flares        | 10             | Records state 33 but details total 32.  |
| Right   | 34-32      | A/Pers             | M1.A1.        | 304            | Records state 29, but details total 28. |
| Right   | 34-33      | A/Pers             | M3            | 33             | Loose tripwires                         |
| Left    | 85-2       | A/Pers             | Flares        | 29             | Loose tripwires; igniter NOT std.       |
| Right   | 34-27      | A/Pers             | M3            | 9              | Loose tripwires; igniter NOT std.       |
| Right   | 34-28      | A/Pers             | Flares        | 1              | Loose tripwires; igniter NOT std.       |
| Right   | 34-29      | A/Pers             | M3            | 10             | Loose tripwires; igniter NOT std.       |
| Right   | 34-30      | A/Pers             | Flares        | 1              | Loose tripwires; igniter NOT std.       |
| Right   | 34-31      | A/Pers             | M3            | 5              | Loose tripwires; igniter NOT std.       |
| Right   | 34-32      | A/Pers             | M3            | 4              | Loose tripwires; igniter NOT std.       |
| Right   | 34-33      | A/Pers             | Flare         | 1              | type igniter NOT stated.                |
| Left    | 85-2       | A/Pers             | M4.8          | 2              | Tripwire operated.                      |
| Right   | 85-3       | A/Pers             | M4.8          | 4              | "                                       |
| Right   | 85-6       | A/Pers             | M3            | 12             | Pressure igniters: IMPORTANT:-          |
| Right   | 85-7       | A/Pers             | M2            | 21             | 0 i/c Laying recommends that            |
| Right   | 85-8       | A/Pers             | M2            | 12             | these mines be blown in situ            |
| Right   | 85-9       | A/Pers             | M3            | 18             | rather than lifted.                     |
| Left    | 85-12      | A/Pers             | M3            | 10             | Tripwire operated; type of              |
| "       | 85-13      | A/Pers             | Improvsd      | 10             | igniter NOT stated.                     |
| "       | 85-14      | A/Pers             | Flare         | 9              | Tripwire operated; type of              |
| "       | 85-15      | A/Pers             | Flare         | 72             | igniter NOT stated.                     |
| "       | 85-16      | A/Pers             | Flare         | 8              | Tripwire operated; type of              |
| "       | 85-17      | A/Pers             | Flare         | 204            | igniter NOT stated.                     |
| "       | 85-18      | A/Pers             | Flare         | 24             | Tripwire operated; type of              |
| "       | 85-19      | A/Pers             | Flare         | 13             | igniter NOT stated.                     |
| "       | 85-20      | A/Pers             | Flare         | 150            | Tripwire operated; type of              |
| "       | 85-21      | A/Pers             | Flare         | 14             | igniter NOT stated.                     |
| "       | 85-22      | A/Pers             | Flare         | 15             | Tripwire operated; igniter NOT          |
| "       | 85-23      | A/Pers             | Flare         | 15             | stated.                                 |

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| Sector. | Serial No. | Type of Minefield.                       | Type of Mine.             | No Mines Laid.        | Remarks.                                                                                                                |
|---------|------------|------------------------------------------|---------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------|
| Right   | 88-19      | A/Tk                                     | M1.A1                     | 10                    | 7 lifted 4 Feb 45; 3 remain (rd block)                                                                                  |
| Left    | 88-20      | A/Tk Mixed<br>A/Pers<br>Flare            | M3<br>M49                 | 45<br>4<br>5          | Type not stated on record.<br>10' tripwires; type igniter<br>NOT stated.                                                |
| Left    | 88-22      | A/Tk Mixed<br>A/Pers<br>Flares           | M3<br>M49                 | 30<br>3<br>3          | Type NOT stated.<br>18 ft tripwires; type igniter<br>NOT stated.                                                        |
| Left    | 88-23      | A/Tk Mixed<br>A/Pers<br>Flares           | M1.A1.<br>M3<br>M49       | 29<br>3<br>3          | 18 ft tripwires; NOT armed.                                                                                             |
| Left    | 88-26      | A/Tk Mixed<br>A/Pers<br>Flares           | M3<br>M49                 | 20<br>2<br>2          | Type NOT stated.<br>24 ft tripwires; type igniter<br>NOT stated.                                                        |
| Left    | 88-27      | A/Tk Mixed<br>A/Pers<br>Flares           | M1.A1.<br>M3<br>M48       | 160<br>15<br>12       | Tripwire operated; type igniter<br>NOT stated.                                                                          |
| Left    | 88-28      | A/Tk Mixed<br>A/Pers<br>Flares           | M1.A1.<br>M3<br>M48       | 124<br>16<br>11       | 20 ft tripwires; type igniter<br>NOT stated.                                                                            |
| Right   | 88-29      | A/Tk                                     | M1.A1.                    | 5                     | Road block.                                                                                                             |
| Left    | 88-31      | A/Tk Mixed<br>A/Pers<br>Flares           | M3<br>M49                 | 96<br>3<br>3          | Typw NOT stated.<br>4 yd tripwires, mines NOT armed.                                                                    |
| Left    | 88-32      | A/Tk<br>A/Pers                           | M3                        | 48<br>4               | Type NOT stated.<br>18 ft tripwires; type igniter<br>NOT stated.                                                        |
| Left    | 88-33      | Flares<br>A/Tk Mixed                     | M49                       | 4<br>148              | 18 ft tripwires.<br>40 removed; leaves 108; further<br>24 NOT located.<br>5 removed; leaves 6; NOT armed.<br>NOT armed. |
| Left    | 88-34      | A/Pers<br>Flares<br>A/Tk Mixed<br>A/Pers | M3<br>M49<br>M1.A1.<br>M3 | 11<br>10<br>174<br>15 | Tripwire operated; type igniter<br>NOT stated.                                                                          |
| Left    | 88-35      | Flares<br>A/Tk Mixed<br>A/Pers<br>Flares | M49<br>M1.A1<br>M3<br>M49 | 16<br>135<br>12<br>14 | Tripwire operated.                                                                                                      |
| Left    | 88-41      | Flare                                    | M49                       | 11                    | Type NOT stated.                                                                                                        |
| Left    | 91-51      | Flare                                    | M49                       | 21                    | Laid at 20 ft intervals.                                                                                                |

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