

Declassified E.O. 12356 Section 3.3/NND No. 785021

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Declassified E.O. 12356 Section 3.3/NND No. 785021

10000) 148/1554

PARMA - LA SPEZIA
JUN - AUG 1945

DEI TRASPORTI
MINISTERO DELLE COMMUNICAZIONI
FERROVIE DELLO STATO - DIREZIONE GENERALE
SERVIZIO LAVORI E COSTRUZIONI

OGGETTO:

ROMA li 6 Agosto 1945 -

N.C.S. 412

AI N. del

COMMISSIONE BRITANNICA

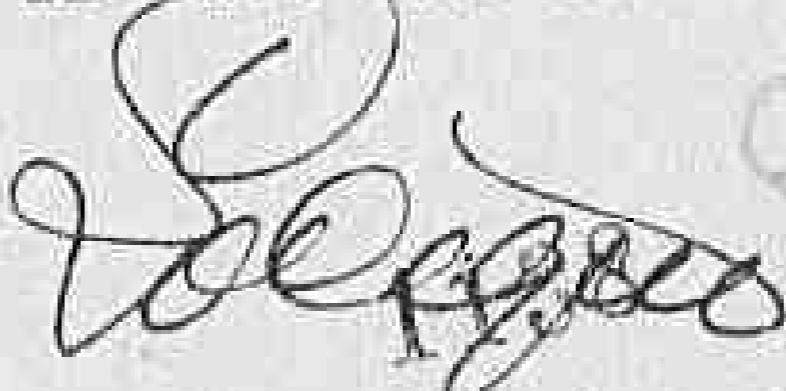
Ferrovie dello Stato

M I L A N O

Alla gara d'appalto per l'esecuzione dei lavori di ricostruzione dei ponti della Fornovo Sarzana fu invitata anche la Ditta Ing.G.Fenaroli, che presentò offerta dell'importo di L.135.445.450. Il lavoro fu però affidato all'Impresa Ing.Arganini che fece offerta ammontante a L.116.189.000 .-

Spiace pertanto di non potere dare la preferenza all'Impresa Fenaroli, che verrà per inviata ad altre gare.

IL CAPO DEL SERVIZIO



Servizio.

AHS/eif

TRANSPORTATION SUB-COMMISSION, A.C. ,
(RAIL DIVISION)
c/o Transportation (Br) Main,
C.M.F.

Tel : 843239
Ref : AC/Tn/36a/C.E.

14th July 1945

SUBJECT : Parma-La Spezia Line.

TO : Chief Public Works Division
Attention : Lt.Col. Spann.

1. Reference your letter 078/3/P.W.O. of 11th July .
2. The necessity for the repair of this line has been agreed.
3. The I.S.R. have been requested to submit an estimate and as soon as this is received, financial approval will be obtained and the work put in hand.
4. When Ing; Corini called at this office he was given this information.

A.H. STREET, Major.

Copy to : Provincial Commissioner Parma Province.

1137

Tel. 489081 Ext. 339

HEADQUARTERS ALLIED COMMISSION
APO 394
Public Works and Utilities Sub-Commission

RWS/rlv

Ref: 078/3/PWU

11 July 1945

Subject: Parma-Spezia Railway Line.

To : Transportation Sub-Commission.

1. Attached is letter from the Provincial Commissioner of Parma Province, Emilia Region together with report rendered by Engineer Corini with reference to the reactivation of the railway from Parma to Spezia.

2. As this scheme is concerned with repairs to a previously existing line and not with new construction, the attachments are being referred to you for whatever action is deemed necessary.



WILLIAM N. SPANN
Lt. Col. A.U.S.
Chief, Public Wks. Div.

1136

() O *PA 416*
HEADQUARTERS
Parma Province, Emilia Region,
ALLIED MILITARY GOVERNMENT
APO 394

Trans

REFERENCE : RIX/PA-Ha

21 June 1945

SUBJECT : Parma-Spezia Railway Line.

TO : Lt. Col. Spann, Emilia Region H.Q. - Bologna

With reference to our conversation of last Saturday regarding the restoration of the above mentioned line, I submit herewith the statements of one Engineer Corini for your information and whatever action you deem necessary.

Enclos.

EJP/ec

FRANCIS J. BURNS,

Major, USA,

Provincial Commissioner.

1125

22 JUN 1945

820



MINISTERO DEI TRASPORTI
FERROVIE DELLO STATO

IL DIRETTORE GENERALE

Roma, 13 giugno 1945

N° L.5/13/29291

2

Oggetto:

Ripristino linea Parma-Spezia.

Allegati: 1 -

ALLA COMMISSIONE ALLEATA
Sottocommissione Trasporti (Ferrovie)
Stanza 52 - Piano 3^o

S E D E
^ ^ ^ ^ ^

1) La linea Parma-Spezia è di particolare importanza per convogliare il traffico sulla linea tirrenica alleggerendo la Bologna-Firenze, e specialmente la stazione di Bologna, duramente provata dagli eventi bellici. Inoltre le 4 provincie di Parma, Reggio Emilia, Piacenza e Mantova, fanno vive premure per essere allacciate alla rete ferroviaria in esercizio nell'Italia Centro-Meridionale, per cui si rende necessario provvedere al ripristino del tronco di linea Parma-Spezia.

2) I danni principali sofferti dalle opere d'arte risultano dall'elenco allegato, compilato in base alle prime notizie in possesso di questa Sede.

3) La spesa di grande massima occorrente per la esecuzione dei lavori ammonta a L. 200.000.000.

4) Ove codesta Commissione non sia contraria al ripristino in parola, si farà seguito col progetto in corso di allestimento, delle opere da sistemare, nonchè con la perizia dettagliata della spesa e con l'elenco dei materiali occorrenti.

5) Si prega di esaminare la questione e far conoscere con cortese sollecitudine se, a guadagno di tempo, si possono senz'altro indire le gare per gli appalti.

L

IL DIRETTORE GENERALE

M. Raimondi

1134

MINISTRY OF TRANSPORTS
I.S.R. General Director
N. 1 Enclosure

Rome, 10 June 45
Ref. L.5/13/29291

TRANSLATION

To: In Sub-Commission (Rail)
Room 52 - 3rd Floor - bldg.

SUBJECT : Restoration of Parma-Spezia Line.

- 1) Parma-Spezia Line is particularly important to convoy traffic to the Tyrrenian line, in order to alleviate the Bologna-Florence one and especially Bologna station, which has been hardly damaged by the war events. Besides, the 4 Provinces of Parma, Reggio Emilia, Piacenza and Mantova are strongly soliciting to be connected with the railway system of central and southern Italy. This is why restoration of Parma-Spezia Section has become a necessity.
- 2) Biggest damages suffered by the line masonry works are showed by attached list which has been drawn up after the very first informations.
- 3) Expense for execution of works amounts very roughly at L. 200.000.000.
- 4) Whether your Commission will be not contrary to said restoration, a scheme is being prepared and will follow, containing a list of the concerned works, even estimate of expense and list of materials needed.
- 5) Please, examine the question and kindly inform us if, in order to save time, we can bid the works right away.

The General Director

IL RISCHIO DELLA LINEA

PARMA - SPEZIA

La linea Parma-Spezia è una linea di comunicazione fondamentale per tutta la pianura padana e specialmente per le provincie di Parma, Reggio Emilia, Modena, Bologna, Mantova, Cremona.

E' l'unica linea trasversale congiungente la Liguria e il porto di Spezia con la pianura Padana.

L'esercizio della linea è indispensabile per il trasporto dei carboni, (anche quelli della Sardegna) di Spezia alle città sudetiche e per il trasporto della legna dall'appennino Parmense (zone di Borrotaro, Berceto, Valmozzola) alle città succitate. In mancanza di tale esercizio Parma resterà letteralmente senza possibilità di riscaldamento. La Parma-Spezia è pure essenziale per poter inviare il generale alimento della pianura padana alle zone prive di risorse agrarie (Appennina, Spezia, Liguria).

La situazione attuale della linea è gravissima. Le principali interruzioni sono le seguenti:

vincie di Parma, Reggio L, Modena, Bologna, Mantova, Cremona.

E' l'unica linea trasversale congiungente la Liguria e il
porto di Spezia con la pianura padana.

L'esercizio della linea è indispensabile per il trasporto
dei carboni, (anche quelli della Sardegna) di Spezia alle città sud=
dette e per il trasporto della legna dell'appennino parnese (zone
di Sorrento, Berceto, Valsanzolo) alle città lucchesi. In mancanza di
tale esercizio Parma resterà letteralmente senza possibilità di ri=
scaldaamento. La Parma Spezia è pure essenziale per poter inviare il
genere alimentare dalla pianura padana alle zone prive di risorse
azterie (Appennino, Spezia, Liguria)

La situazione attuale della linea è gravissima. Le prin=
cipali interruzioni sono le seguenti:

Nel seguente prospetto sono state raccolte le caratteristiche dei ponti crollati o gravemente danneggiati.

Nessun lavoro di ripristino è stato iniziato e nemmeno nessun provvedimento è stato preso per appaltare i lavori.

La linea Parma Spezia dipende dal Compartimento di Firenze, assai lontano per notare i bisogni della cotta interessata a prendere d'urgenza i necessari provvedimenti.

Per importanza con la dovuta urgenza le opere di ripristino è necessario anzitutto far in modo che la suddetta linea passi dalle dipendenze del Compartimento di Firenze a quelle di Bologna e che questo istituisca in Parma un nuovo reparto di lavori, che assieme a quello avente sede a Terrarossa (della Parma Spezia) provveda immediatamente gli appalti dei lavori e ne sorvegli la rapida esecuzione. Questa necessità è stata riconosciuta dai Presidenti delle Deputazioni provinciali e dai Prefetti di Parma, Reggio, Modena e Bologna, e S.E. il ministro delle Trasporti, interessato al provvedimento, ha promesso il compito di interessamento. Questo è necessario perché il Compartimento di Firenze dipende direttamente dal Governo di Roma. Ma il Compartimento di Bologna dal Governo Militare Alleato ed è quindi necessario che il Governatore Regionale di Bologna intervenga per dare le necessarie disposizioni al Compartimento ferroviario di Bologna.

Ma anche con questo provvedimento e con la immediata assegnazione degli appalti delle opere di ricostruire non sarà possibile ottenerne il ripristino della linea in pochi mesi, come è indispensabile per far fronte alle indrogabili necessità, che si presenteranno all'inizio del prossimo autunno.

Occorre l'intervento dell'esercito alleato, nonsoltanto per presentare 1191

Per importanza con la dovuta urgenza le opere di ripristino è necessario anzitutto far in modo che la sussetta linea passi dalle dipendenze del compartimento di Firenze a quello di Bologna e che questo istituisca in Parma un nuovo reparto lavori, che assieme a quello avente sede a Terrarossa (della Parma spezia) provveda immediatamente gli appalti dei lavori e ne sorvegli la rapida esecuzione. A questa necessità è stata riconosciuta dai Presidenti delle Deputazioni provinciali e dai Prefetti di Parma, Reggio, Modena e Bologna, e S.E. il ministro dei trasporti, interessato al provvedimento, ha promesso il suo immediato interessamento. Questo è necessario perchè il compartimento di Firenze dipende direttamente dal Governo di Roma.

Ma il compartimento di Bologna dal Governo Militare alleato ed è quindi necessario che il Governatore Regionale di Bologna intervenga per dare le necessarie disposizioni al Compartimento ferroviario di Bologna.

Ma anche con questo provvedimento e con la immediata assegnazione degli appalti delle opere di ricostruzione non sarà possibile ottenere il ripristino della linea in pochi mesi, come è indispensabile per far fronte alle indorogabili necessità, che si presenteranno all'inizio del prossimo autunno.

Occorre l'intervento dell'esercito alleato, non soltanto per mettere a disposizione i materiali necessari, ma proprio per mettere in opera travale metallica smontabili, per rendere possibile il ripristino dei ponti di grandi luci.

Conclusione

Riassumendo possiamo dire che il repristino della Parma S

3

Si pone costituisce un problema di importanza regionale interessante tutta la pianura Padana e che può essere risolto in un tempo relativamente breve, soltanto con l'intervento del Governo militare Alleanzato, per il passaggio della linea del confine di Firenze a quello di Bologna, sia con leadirettaz e lattiva collaborazione per la messa a disposizione di materiali necessari e trovate smontabili indispensabili per il ripristino delle opere d'arte di grande luce.

1106

TRANSLATION

THE REINSTATEMENT OF THE LINE PARMA-SPEZIA.

The line Parma-Spezia is a very important line for all the Padana Plain and especially for the Province of Parma, Reggio, Modena, Bologna, Mantova and Cremona.

It is the only line which connects the Liguria and the Port of Spezia with the Padana Plain.

This line is very important for the transport of coal (also coal imported from Sardegna) and of wood from the Apennino Parmense (zone of Borgotaro, Berceto, Valsenzola) without this railway Parma will remain without any possibility of heating;

it is necessary also to send food from the Padana Plain to Apuania, Spezia, Liguria.

The situation of this line is very hard; the most important interruptions are the following:

In the following prospect there have been gathered all the characteristics of the fallen bridges or greatly damaged.

No work for the reinstatement of this line has begun neither provisions have been made for reserving labor. The Department of Firenze, from which this line depends is too far to interest itself on these works.

Because of the urgency of these repairs, it is above all necessary that this line passes from the Department of Firenze to that of Bologna and that it establishes here in Parma a new Department of the works, which together with the one at Terrenosse (of Parma-Spezia) will provide a reserve for labor immediately and will survey its rapid execution.

1120

This necessity has been recognized by the Presidents of the Provincial Deputations and by the Prefects of Parma, Reggio, Modena and Bologna; the transport Minister, interested in this, promised his immediate ~~intervention~~. This is necessary because Florence Dept. depends directly from the Government in Rome.

It is necessary that the Regional Commissioner of Bologna gives instruction

especially for the Province of Parma, Reggio, Lodi, Sologna, Mantova and Cremona.
It is the only line which connects the Liguria and the Port or Spezia with
the Padana Plain.

This line is very important for the transport of coal (also coal imported from
Sardinia) and of wood from the Apennino Parmense (zone of Sorrento, Berceto, Valsassina).
Without this Railway Parma will remain without any possibility of heating;

it is necessary also to send food from the Pianura Plain to Apulia, Spezia, Liguria.

The situation of this line is very bad; the most important interruptions are
the following:

In the following prospect there have been gathered all the characteristics
of the fallen bridges or greatly damaged.

No work for the reinstatement of this line has begun neither provisions
have been made for reserving labor. The Department of Firenze, from which this line depends
is too far to interest itself on these works.

Because of the urgency of these repairs, it is above all necessary that
this line passes from the Department of Firenze to that of Bologna and that it establishes
here in Parma a new Department of the works, which together with the one at Terrenosse
(or Parma-Spezia) will provide a reserve for labor immediately and will survey its
rapid execution.

1129

This necessity has been recognized by the Presidents of the Provincial
Requisitions and by the Prefects of Parma, Reggio, Modena and Bologna; the transport minister,
Attention, interested in this, promised his immediate action. This is necessary because Florence Dept.
depends directly from the Government in Rome.

It is necessary that the Regional Commissioner of Bologna gives instruction:
to the railway Dept. of Bologna; and more important is the necessity of the intervention of
the Allied Army to reinstate the great bridges.

It is possible to release this problem only with the help of the Allies.

(continued)

Railway Interruptions

**LIST OF THE PRINCIPAL INTERRUPTIONS EXISTING ON THE TRACK VIZZINO-FORNNO
ON THE LINE PIANA-SPEZZI.**

- 1) Bridge of cement with steel skeleton over Sorzana River (3 arches of 12m.) between Fornovo and Citterna; fallen.
- 2) Iron bridge over the Rio Rienzo (arch of 20 m.) between Fornovo and Citterna; fallen.
- 3) Bridge of cement with steel skeleton over the Rio Archistela(arch of 10m.) between Fornovo and Citterna, fallen.
- 4) Bridge of cement with steel skeleton over the Rio Strela (arch of 10 m.) between Fornovo and Citterna, fallen.
- 5) Iron bridge over the Rio Calgana (arch of 21.70 m.) between Fornovo and Citterna, fallen.
- 6) Bridge in masonry over Taro River (8 arches of 22.50 m.) between Selva del Boccheto and Solignano: seriously damaged by aerial-raids and repaired by the Germans, but without any security of solidity.
- 7) Iron bridge over the Rio Borella (arch 21,70 m.) between Solignano and Valmozzola.
- 8) Bridge in masonry over the Torrente Mozzola, between Solignano and Valmozzola, (6 arches of 19m.) ~~it is very~~ damaged by aerial-raid.
- 9) Iron bridge over Taro River (5 arches of 50m.) insufficiently repaired by the Germans.
- 10) Groppo San Giovanni Tunnel, between Derceto and Roccamurata, damaged at the entrance, Parma side, for about 100m.
- 11) Iron bridge over Taro River (1 arch of 25m.) semi parabolic beams between Ostia and Roccamurata damaged by explosion on the Spezia side at about 4 m.
- 12) Iron bridge over Taro River (3 arch of 38 m.) between Ostia and Roccamurata, 1 arch destroyed.
- 13) Iron bridge of Taro River (3 arch of 37 m.) between Ostia and Borgotaro, damaged by aerial-raid.
- 14) Bridge over the Taro River (7 iron arches of 50 m. and 5 masonry arch of 9 m.) ~~it is~~ ~~damaged~~

1128

- between Formovo and Citerne; fallen.
- 1) Iron bridge over the Rio Biasco (arch of 20 m.) between Formovo and Citerne; fallen between Formovo and Citerne, fallen
 - 2) Bridge of cement with steel skeleton over the Rio Archisella (arch of 10m.)
 - 3) Bridge of cement with steel skeleton over the Rio Strabel (arch of 10 m.) between Formovo and Citerne, fallen
 - 4) Iron bridge over the Rio Calgene (arch of 21.70 m.) between Formovo and Citerne, fallen.
 - 5) Bridge in masonry over Taro River (3 archs of 22.50 m.) between Selva del Boccheto and Solignano: seriously damaged by aerial raids and repaired by the Germans, but without any security-of-solidity.
 - 6) Iron bridge over the Rio Borella (arch 21,70 m.) between Solignano and Valmozzola.
 - 7) Bridge in masonry over the Torrente Mozzola, between Solignano and Valmozzola, (6 archs of 19m.) heavily damaged by aerial raid.
 - 8) Iron bridge over Taro River (5 archs of 50m.) insufficiently repaired by the Germans.
 - 9) Iron bridge over Taro River (5 archs of 50m.) insufficiently repaired by the Germans.
 - 10) Gruppo San Giovanni Tunnel, between Berceto and Roccamurata, damaged at the entrance, Parte side, for about 10m.
 - 11) Iron bridge over Taro River (1 arch of 30m.) semi parabolic beans ~~between Ostia and Roccamurata~~ ^{at Greda}, Ostia and Roccamurata damaged by explosion on the Spezia side at about 4 m.
 - 12) Iron bridge over Taro River (3 arch of 30 m.) between Ostia and Roccamurata, 1 arch destroyed.
 - 13) Iron bridge of Taro River (3 arch of 37 m.) between Ostia and Borgotaro, damaged by aerial raid.
 - 14) Bridge over the Taro River (7 iron archs of 50 m. and 5 masonry arch of 9 m.) between Ostia and Borgotaro, near the station of Borgotaro damaged by aerial raid.
 - 15) Borgallo Tunnel, between Borgotaro and Grondola Guinardi, the masonry reinforcement ~~damaged~~ ^{damaged}

- 2026
- 16) Viaduct over Vellone at Grondola, between G. Giunardi and Pontremoli, (3 archs of 15m.) 2 piers and 3 arches fallen.
- 17) Viaduct over Verdi River, between G. Giunardi and Pontremoli (in masonry 6 archs of 20 m. and 2 or 10 m.) 38 m. high: 2 piers and 2 archs fallen.
- 18) Iron bridge over Verde River between G. Giunardi and Pontremoli (3 archs of 35.55 m.) completely destroyed.
- 19) Iron bridge over Magra River between G. Giunardi and Pontremoli (3 archs of 25.50 m.) The parapet of Spezia side very damaged.
- 20) Viaduct of Lizzierino between Scorcetoli and Villatiere in masonry (42 archs of 7 m.) 4 pier and 2 archs were badly damaged.
- 21) Bridge over Begnone River between Villorzana and Terrarossa in masonry (4 archs of 18 m.) completely destroyed.
- 22) Support wall of the 62nd Route of the Cisa between Villorzana and Terrarossa fallen for 105 m. encumbering the lower railway with about 6,000 mc. of material.
- 23) Bridge over Taverone River between Terrarossa and Aulla in masonry (90 for 9 ha.) 3 piers and 4 archs fallen.
- 24) Bridge over Aullella River in masonry (9 archs of 11 m.) between Aulle and S. Stefano Tunnel between Aulle and S. Stefano fallen for 45 m.
- 25) Stefano Tunnel between Aulle and S. Stefano fallen at the 2 entrance for 115 m. and S. Stefano completely fallen.
- 26) Isola Tunnel between Aulle and S. Stefano fallen for 45 m.
- 27) Over bridge of the 62nd Route of the Cisa near Aulle Tunnel between Aulle and S. Stefano completely fallen.
- 28) Over bridge of the 62nd route of the Cisa near S. Stefano Tunnel, between Aulle and S. Stefano completely fallen. 1127
- 29) Railway underbridge strada del Villini (1 arch of 4.60 m.) between S. Stefano and Vezzano fallen the part of S. Stefano and Vezzano (4 arches of 57.50 m.)
- 30) - Iron bridge over Magra River between S. Stefano and Vezzano (4 arches of 57.50 m.)

19) Iron bridge over Magra River between S. Giacomo and Centonoli (3 arches of 25.50 m.)

The parapet of Spezia side very damaged.

- 20) Viaduct of Ligurina between Scorcetoli and Villalera in masonry (42 arches of 7 m. pier and 2 arches ~~were~~ badly damaged.
- 21) Bridge over Begnone River between Villalera and Terrerosa in masonry (4 arches of 18 m.) completely destroyed.
- 22) Support wall of the 62nd Route of the Cisa between Villalera and Terrerosa fallen for 105 m. encumbering the lower railway with about 6,000 m. of material.
- 23) Bridge over Tevernone River between Terrerosa and Villa in masonry (50 m. or 9 min.) 3 piers and 4 arches fallen.
- 24) Bridge over Aulella River in masonry (9 arches of 14 m.) between Villa and S. Stefano 3 Piers and 4 arches fallen.
- 25) Seigels Tunnel between Villa and S. Stefano fallen at the 2 entrance for 115 m.
- 26) Isola Tunnel between Villa and S. Stefano fallen for 45 m.
- 27) Over bridge of the 62nd Route of the Cisa near S. Mulin Tunnel between Villa and S. Stefano completely fallen.
- 28) Over bridge of the 62nd route of the Cisa near S. Stefano Tunnel, between Villa and S. Stefano completely fallen. 1127
- 29) Railway underbridge strada dei Vallini (1 arch of 4.50 m.) between S. Stefano and Vezzano fallen. 1128
- 30) Iron bridge over Magra River between S. Stefano and Vezzano (4 arches of 37.50 m. and 5 arches of 46.50 m.) 3 Pier and 2 beams of 46.50 fallen the parapet to the side of Parma is very badly damaged. 1129
- 31) Railway underbridge of the 1st Route Aurelia at the west of Formole Tunnel between S. Stefano and Vezzano 1 arch of 8 m. fallen.

IV

32) *Locality* underbridge No.1 Route Aurelia at the foot of Morvola Tunnel between
S. Stzano and Vezzano an arch or In. fallen.

There are also other interruptions of little importance (little bridges
of L.M. which we are repairing with rails)

The station of Aulla, Villefrance, Pontremoli, Borgotaro, Sercato and Morvola
are very badly damaged with many interruptions to the rails and grave damages to the station
buildings. ~~X~~

All the water installations are destroyed, we have repaired some rails in the
stations of Aulla and Borgotaro, in the other stations the damages are less important, the
rails of Terrerosa station are safe.

The Germans effected many repairs but it is better to check them as they are

no good. In the track of Vezzano-V.S. Stefano the railway was demolished for about 700 m.
to use the same material and the same for the tracks of Pontremoli and Grodol-Suinardi,

In the track Serzana-S. Stefano the line is efficient. ~~X~~

As the Allied Command told me that it is impossible to have any transport

means we must use the local means which are very scarce

If we could obtain a great amlication we suppose in 9 or 10 months the line
will function as till now we have provided to repair the little interruptions and the recovery
of the materials.

Conclusion

We can say that the reactivation of the Parma-Spezia constitutes a
problem of regional importance and interest of all the Padana Plain that may be solved in a
relative brief period only with the intervention of U.M.G. but for the passage of our line
from Florence compartment to that of Bologna either with the direct or the active
collaboration for the disposition of material necessary for recuperating ~~maps~~ of great archs.

2022
The station of Aulla, Villafranca, Pontremoli, Borgotaro, Ferceto and Formovo
are very badly damaged with many interruptions to the rails and grave damages to the station
buildings. ~~X~~

All the water installations are destroyed, we have repaired some rails in the
stations of Aulla and Borgotaro, in the other stations the damages are less important, the
rails of Terrarossa station are safe.

The Germans effected many repairs but it is better to check them as they are
no good. In the track of Vezzano-V.S. Sterzino the railway was demolished for about 700 m.
to use the same material and the same for the tracks of Pontremoli and Grodoli-Guinardi,
in the track Sarzana-S. Stefano the line is efficient. ~~X~~

As the Allied Command told me that it is impossible to have any transport
means we must use the local means which are very scarce

If we could obtain a great application we suppose in 6 or 10 months the line
will function as till now we have provided to repair the little interruptions and the recovery
of the materials.

Conclusion

We can say that the reactivation of the Parma-Spezia constitutes a
problem of regional importance and interest of all the Padana Plain that may be solved in a
relative brief period only with the intervention of the A.M.G. but for the passage of the Line
frontier of Florence compartment to that of Bologna either with the direct or the active
collaboration for the disposition of material necessary for recuperating ~~pieces~~ of great archs.

1196

LIST OF PRINCIPAL INTERRUPTIONS ON THE SECTION OF LINE
VEZZANO FORNOVO ON THE PAVIA LA SPEZIA
LINE.

+ . + . + . + . + . + . + . + . + . + . + . + . + . + . + . + . + . + . + . + .

1. Reinforced concrete bridge over Sporzana river (3 arches of 12 metres), between Fornovo and Citerna destroyed.
2. Steel bridge, between Fornovo and Citerna, over the Rio Riazzo (arch of 20 m) destroyed.
3. Reinforced concrete bridge between Fornovo and Citerna over the Rio Archisiel (arch of 10 m) destroyed.
4. Reinforced concrete bridge between Fornovo and Citerna, over the Rio Strabel (Arch of 10 m) destroyed.
5. Steel bridge between Fornovo and Citerna, over the Rio Calgana (Arch of 21.70 m) destroyed.
6. Masonry bridge between Selva del Bocchetto and Solignano over the Taro River (8 arches pf 22.50 m) seriously damaged by air raids and repaired by the Germans, needs revision.
7. Steel bridge between Solignano and Valsenzola, over the Rio Borella (arch 21.70 m) destroyed.
8. Masonry bridge between Solignano and Valsenzola, (6 arches of 19 m) badly damaged.
9. Steel bridge over Taro river (5 arches of 50 m) insufficiently repaired by the Germans.
10. Groppo San Giovanni tunnel, between Berceto and Roccamurata, damaged at the entrance, Parma side, for approx. 10 metres).
11. Steel bridge over Taro River, between Ostia and Roccamurata; (1 arch of 85 m) semi parabolic beams, damaged by explosions on the Spezia side from abutment about 4 metres.
12. Steel bridge over Taro River (3 arches of 38 metres) between Ostia and Roccamurata, Larch destroyed.
13. Steel bridge over Taro river between Ostia and Roccamurata, 3 arches of 37 m) damaged by air raid.
14. Bridge over the Taro River between Ostia and Borgoato, 7 steel spans of 50 metres and 5 masonry arches of 9 m-) near 1¹/₂ 5 station of Borgoato, damaged by air raids.
15. Borgallo tunnel between Borgotaro and Grondola Guinardi, the masonry reinforcement damaged.

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the Rio Archisiel (arch of 10 m) destroyed.

4. Reinforced concrete bridge between Fornovo and Citerna, over the Rio Strabel (Arch of 10 m) destroyed.
5. Steel bridge between Fornovo and Citerna, over the Rio Salgana (Arch of 21.70 m) destroyed.
6. Masonry bridge between Selva del Bocchette and Solignano over the Taro River (8 arches pf 22.50 m) seriously damaged by air raids and repaired by the Germans, needs revision.
7. Steel bridge between Solignano and Valmozzola, over the Rio Borella (Arch 21.70 m) destroyed.
8. Masonry bridge between Solignano and Valmozzola, (6 arches of 19 m) badly damaged.
9. Steel bridge over Taro river (5 arches of 50 m) insufficiently repaired by the Germans.
10. Gropo San Giovanni tunnel, between Berceto and Rocciamurata, damaged at the entrance, Parma side, for approx. 10 metres).
11. Steel bridge over Taro River, between Ostia and Rocciamurata; (1 arch of 85 m) semi parabolic beams, damaged by explosions on the Spezia side from shelling about 4 metres.
12. Steel bridge over Taro River (3 arches of 38 metres) between Ostia and Rocciamurata, 1 arch destroyed.
13. Steel bridge over Taro river between Ostia and Rocciamurata) 3 arches of 37 m) damaged by air raid.
14. Bridge over the Taro River between Ostia and Borgotaro, 7 steel spans of 50 metres and 5 masonry arches of 3 m-) near $1\frac{1}{2}$ station of Borgotaro, damaged by air raids.
15. Borgallo tunnel between Borgotaro and Grondola Giunardi, the masonry reinforcement damaged.
16. Vallone di Grondola viaduct, between G.Giunardi and Pontremoli (3 arches of 15 metres) 2 piers and 3 arches destroyed.
17. Verdi river Viaduct, between G.Giunardi and Pontremoli) in masonry, 6 arches of 30 metres and 2 of 10 m) 38 m high, 2 piers and 2 arches destroyed.
18. Steel bridge over Verde river between G.Giunardi and Pontremoli (3 arches of 35.55 metres, completely destroyed.

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19. Steel bridge over Magra river between G.Giunardi and Pontremoli (3 spans of 25.50 metres). The parapet of Spezia side badly damaged.
 20. Migliarina viaduct, between Scorcetoli and Filatierra in masonry (42 arches of 6 metres) 1 pier and 2 arches badly damaged.
 21. Bridge over Begnone river between Villafranca and Terrarossa in masonry (6 arches of 18 metres) completely destroyed.
 22. Support wall of route No 62 of the Cisa between Villafranca and Terrarossa, destroyed for 105 metres, encumbering the lower railway with about 6.000 cm of material.
 23. Tavernone river bridge between Terrarossa and Aulla in masonry (9 arches of 9 metres, 3 piers and 4 arches destroyed.
 24. Bridge over Aulella river in masonry (9 arches of 11 metres) between Aulla and S.Stefano) 3 piers and 4 arches destroyed).
 25. Saigela tunnel between Aulla and S.Stefano destroyed at the entrance for 115 metres).
 26. Isola tunnel between Aulla and S.Stefano destroyed for 45 metres).
 27. Over bridge of route No 62 of the Cisa near Aulla tunnel between Aulla and S.Stefano completely destroyed.
 28. Over bridge of route No 62 of the Cisa near S.Stefano tunnel, between Aulla and S.Stefano, completely destroyed.
 29. Railway underbridge, strada dei Vulini (1 arch of 4.60 metres) between S.Stefano and Vezzano, arch destroyed.
 30. Steel bridge over Magra river between S.Stefano and Vezzano (4 spans of 37.50 metres) and 5 spans of 46.50 metres-) a pier and 2 spans of 45.40 , the parapet of the Parma side is very badly damaged.
 - 31? Railway underbridge, between Formiglione tunnel and S.Stefano route No 1 Aurelia, at the foot of Formiglione tunnel, 1 arch destroyed.
 32. Railway underbridge, between Formiglione tunnel and S.Stefano and Vezzano, route No 1 Aurelia, at the foot of the Formiglione tunnel, 1 arch of 6 metres damaged.
- There are other interruptions of minor importance (small bridge of 4 metres, which are being repaired.
The stations of Aulla, Villafranca, Pontremoli, Borgotaro, Berocco and Torrino are badly damaged, as well as the rails.

23. Tavernone river bridge between Terrarossa and Aulla in masonry (9 arches of 9 metres, 3 piers and 4 arches destroyed.
24. Bridge over Aulella river in masonry (9 arches of 11 metres) between Aulla and S.Stefano 3 piers and 4 arches destroyed).

25. Saigelle tunnel between Aulla and S.Stefano destroyed at the entrance for 115 metres).

26. Isola tunnel between Aulla and S.Stefano destroyed for 45 metres).

27. Over bridge of route No 62 of the Cisa near Aulla tunnel between Aulla and S.Stefano completely destroyed.

28. Over bridge of route No 62 of the Cisa near S.Stefano tunnel, between Aulla and S.Stefano, completely destroyed.

29. Railway underbridge, strada dei Mulinini (1 arch of 4.00 metres) between S.Stefano and Venzano, arch destroyed.

30. Steel bridge over Negra river between S.Stefano and Vezzano (4 spans of 37.50 metres) and 5 spans of 46.50 metres-) a pier and 2 spans of 46.40 , the parapet of the Parma side is very badly damaged.

31? Railway underbridge, between Pontremoli and Vezzano, of the route No 1 Aurelia, at the foot of Tornolo tunnel, I arch destroyed.

32. Railway underbridge, between Pontremoli and S.Stefano and Vezzano, route No 1 Aurelia, at the foot of the Tornolo tunnel, I arch of 8 metres damaged.

There are other interruptions of minor importance (small bridge of 4 metres, which are being repaired.

The stations of Aulla, Villafranca, Pontremoli, Borgotaro, Berceto and Tornovo are badly damaged, as well as the rails.

The station building is damaged too.

All the water installations are destroyed, some rails in the station of Aulla and Borgotaro have been repaired, the damages are less important in the other stations.

The Germans carried out many repairs, it would be better to check them, as they are not in good conditions. On the section of line Venzano-V.S.Stefano the railway was demolished for about 700 metres, the same material can be used for the tracks of Pontremoli and Grodolo Guinardi, the line Sarzana S.Stefano is in good condition.

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