

ACC

AC108/2/TN, 4

10000/148/2189

REPAIRS

OCT. - DEC

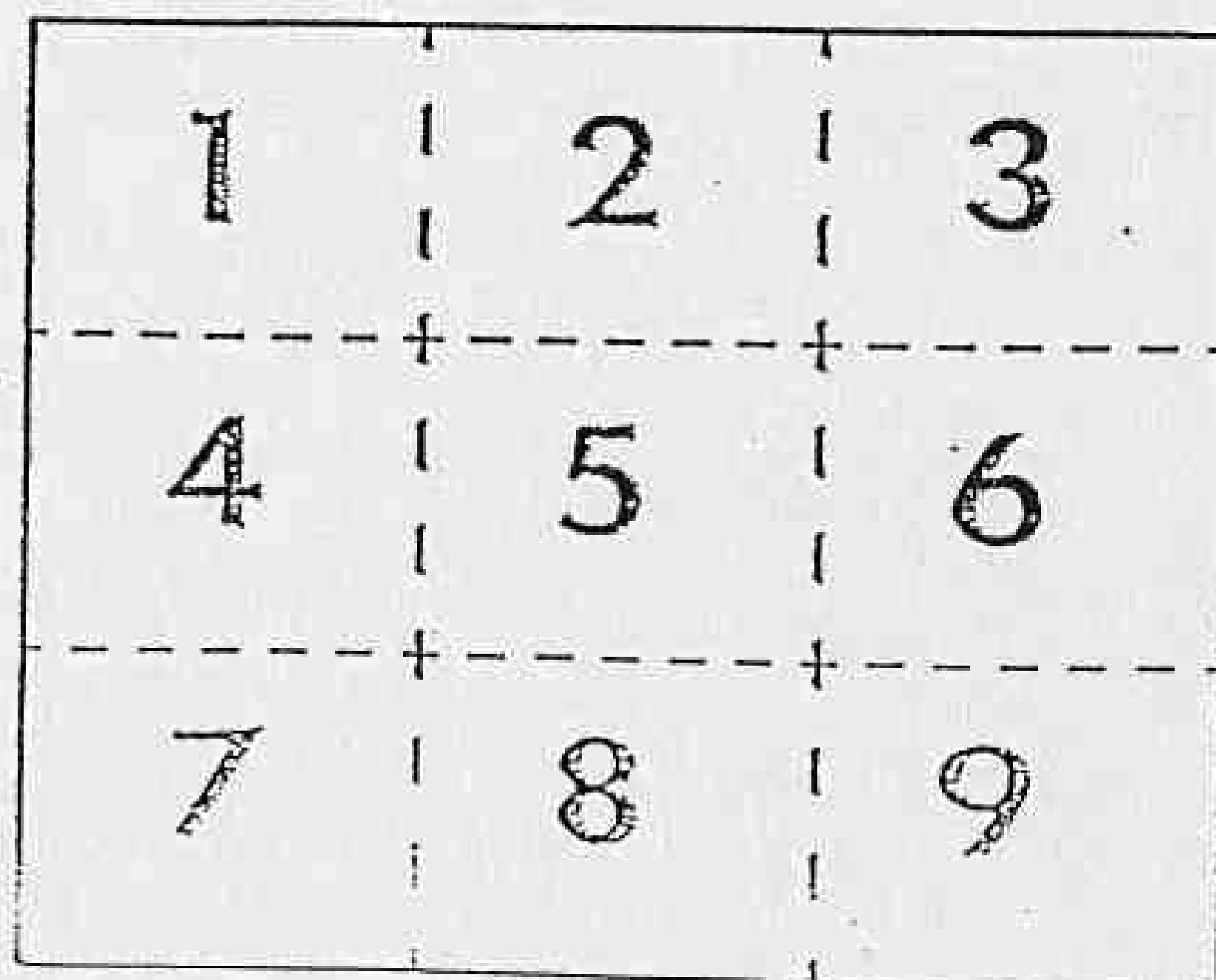
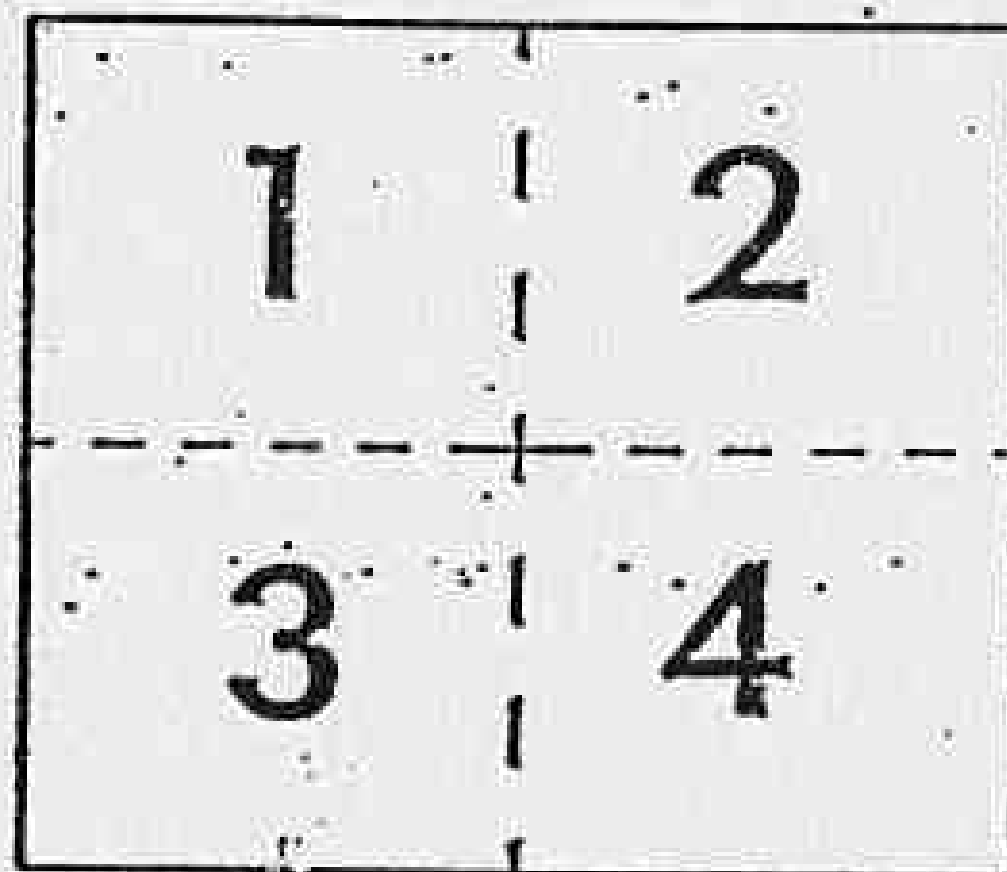
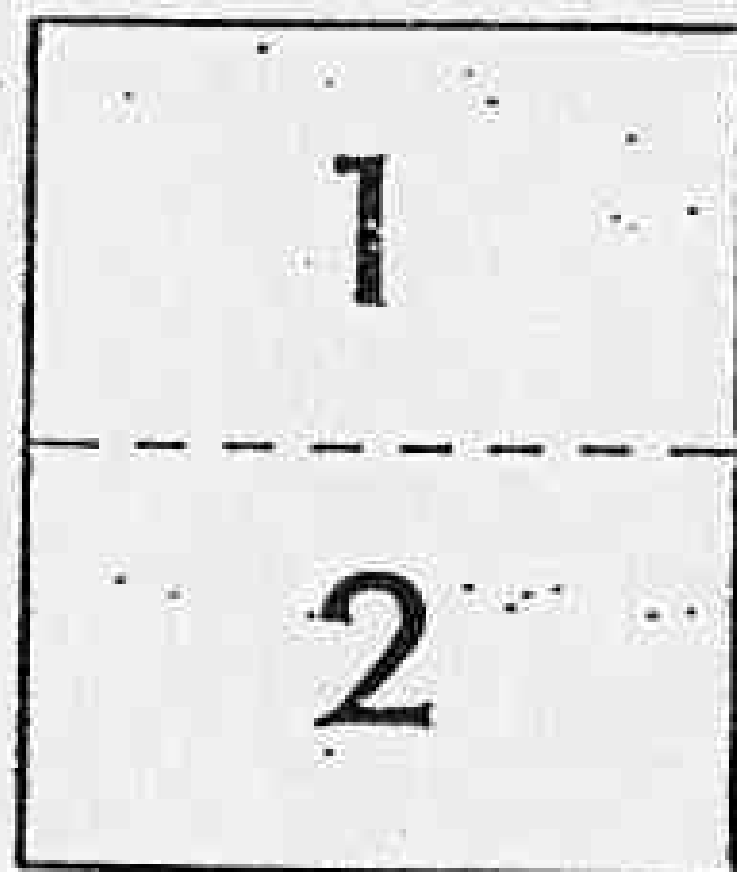
10000/148/2189

REPAIRS PLANT - SAGITTARIO

OCT. - DEC. 1944

MAPS AND CHARTS TOO LARGE TO FILM
ON ONE EXPOSURE ARE FILMED CLOCKWISE
BEGINNING IN THE UPPER LEFT CORNER,
LEFT TO RIGHT, AND TOP TO BOTTOM.

SEE DIAGRAMS BELOW.



UFF. IMPIANTI IDROELETTRICI
MILANO

33307

S. A. FRANCO TOSI & C. E. M. - RIVAROLO LIGURI

1/52

SPEZZ. FERROVIE DELLO STATO - ROMA -

E. 1468

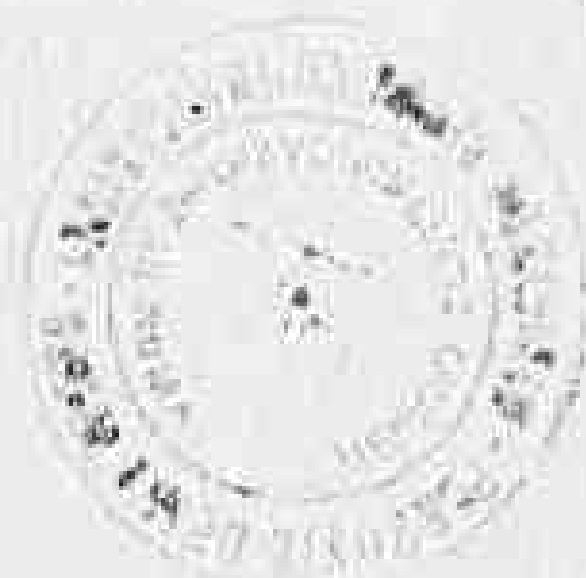
Impianto del Saggio

Installazione di turbina "Pelton" tipo PDD5

per: $H = 328,50 \text{ m}^{\text{tr}}$, $Q = 4300 \frac{\text{m}^3}{\text{sec}}$. $HP = 15000 + 10\%$, giri = $500 \div 420$

Scala 1:50

Per le fondazioni vedi Dis. No 3553 I.



L'ingegnere Carlo dell'Ufficio

Guast

Roma, 13 ottobre 1944

2286

33307

UFF. IMPIANTI IDROELETTRICI
MILANO

S. A. FRANCO TOSI & O. E. M. - RIVAROLO LIGURI

652

SPETT. FERROVIE DELLO STATO - ROMA -
E. 1468Impianto del SagittarioInstallazione di turbina "Pelton" tipo PDDSper: $H = 328,50^{mt}$; $Q = 4300^{lit/sec}$; $N = 15000 + 10\%$; giri = $500 \div 420$ Scala 1:50NB. Per le fondazioni vedi Dis. N° 3553 I.

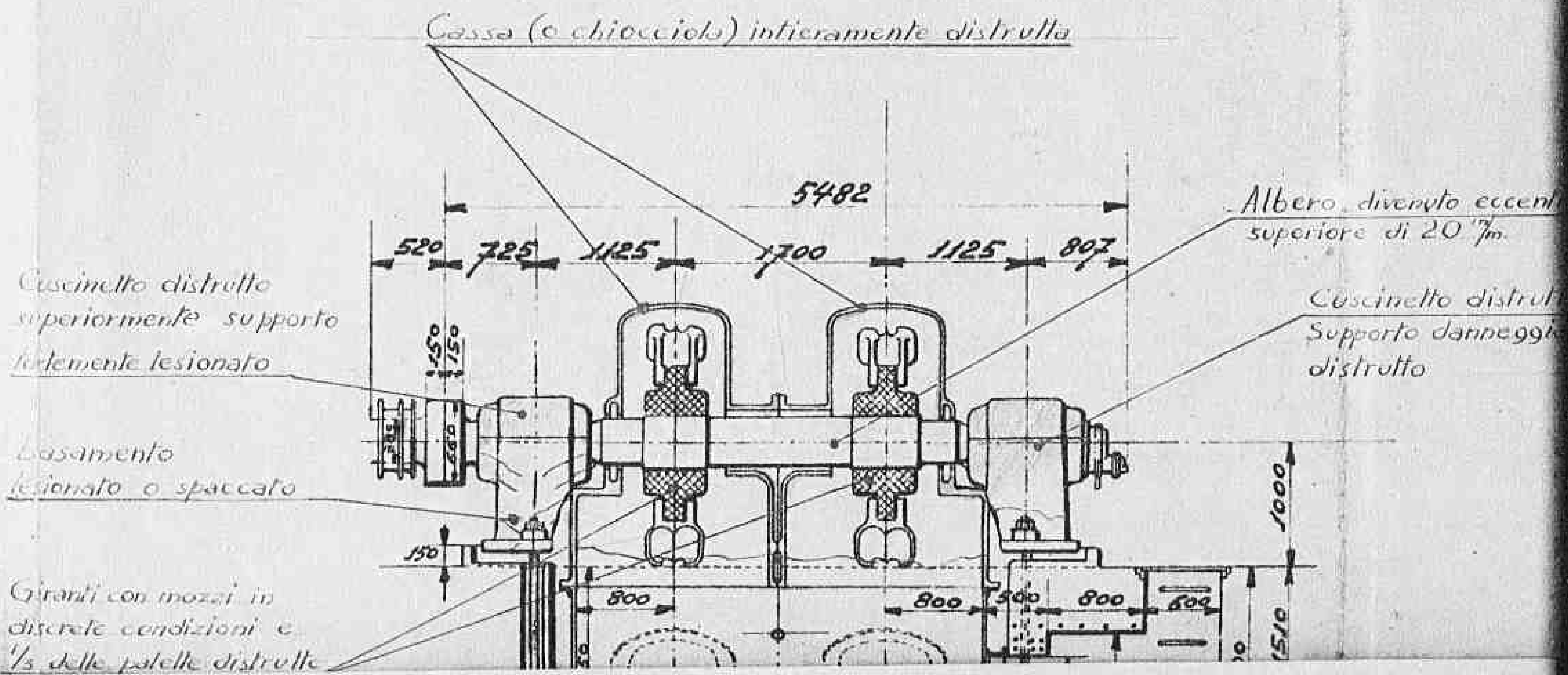
L'Ingegnere Capo dell'Ufficio

Bucat

Ruca, Battelle 1944

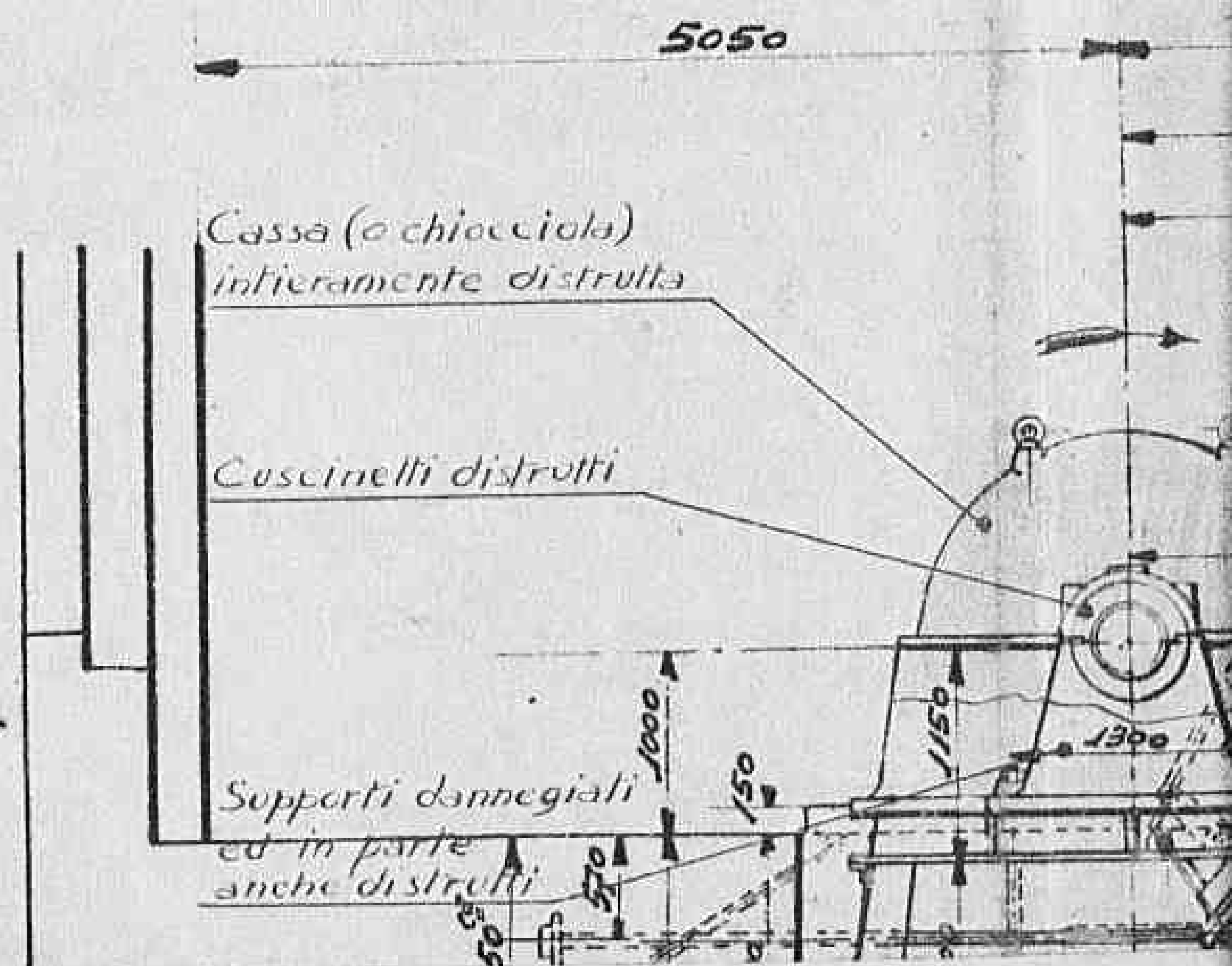
Cuscinetto distrutto
superiormente sup-
polemente lesionatoBasamento
lesionato o spaccaGiranti con mozzì
discrete condizioni
1/3 delle palette dist

2268



Albero diventa eccentrico con una differenza superiore di 20 %.

Cuscinetto distrutto superiormente
Supporto danneggiato ed in parte anche distrutto



Cassa (o chiocciola)
intieramente distrutta

Cuscinelli distrutti

Supporti danneggiati
ed in parte
anche distrutti

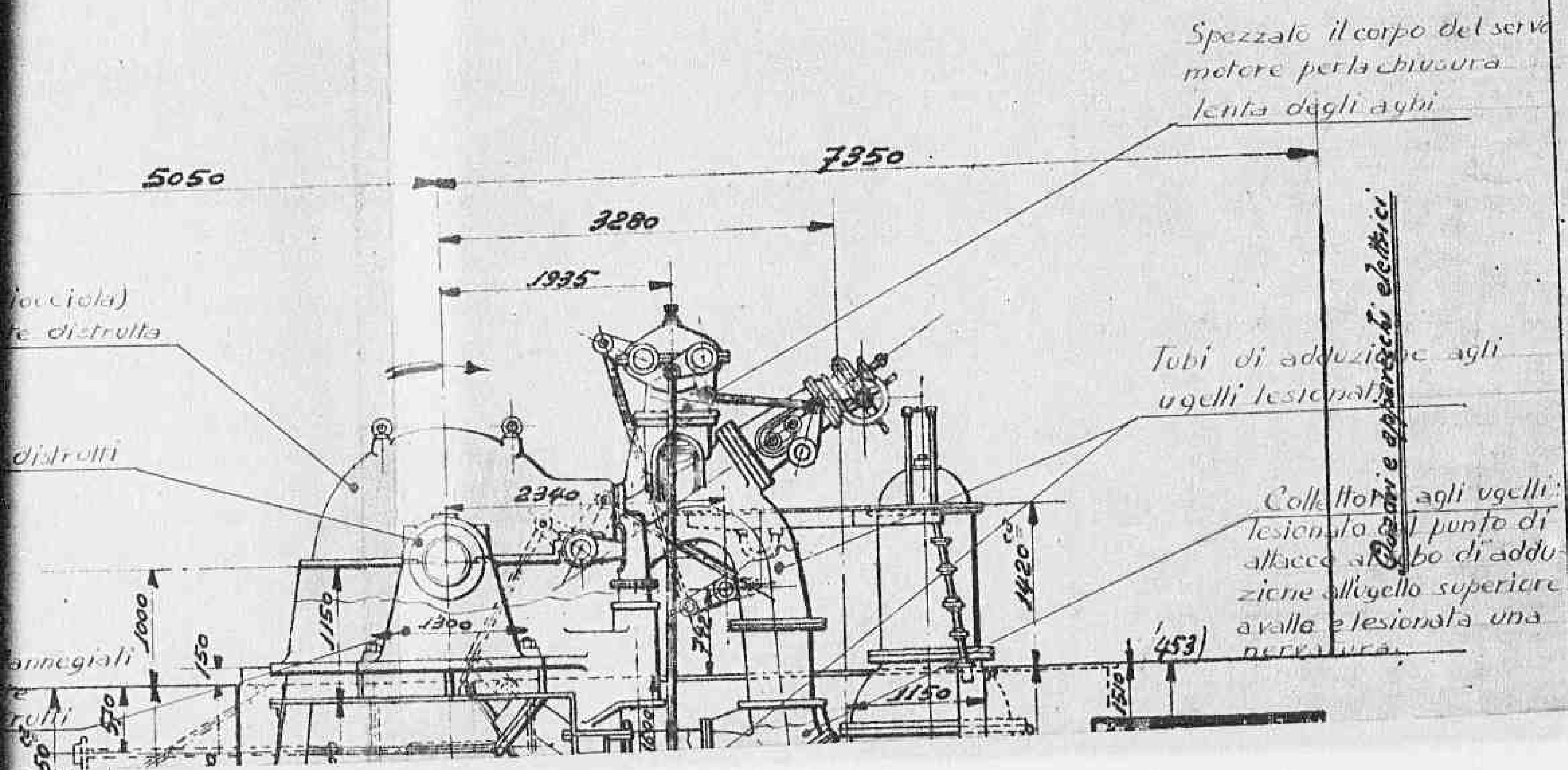
1000

0151

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50/

05/1



0997

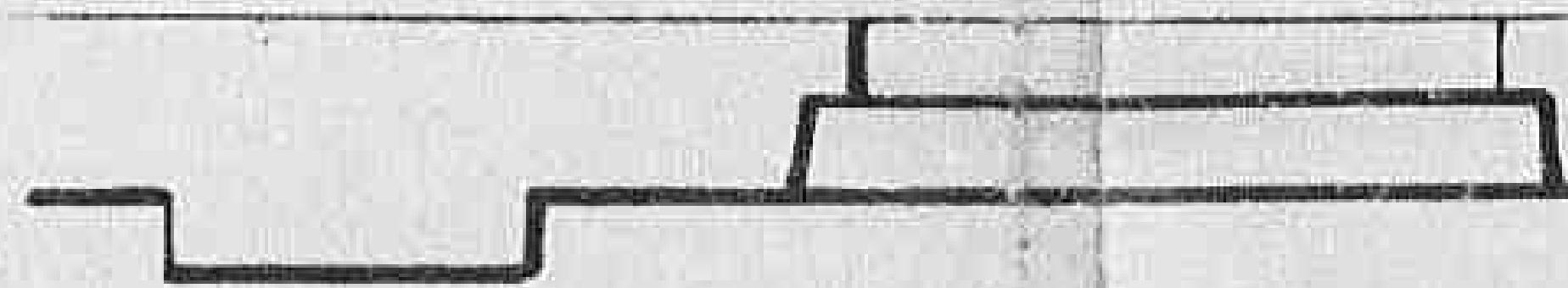
Declassified E.O. 12356 Section 3.3/NND No. 785021

Mura, 10 ottobre 1944

3288

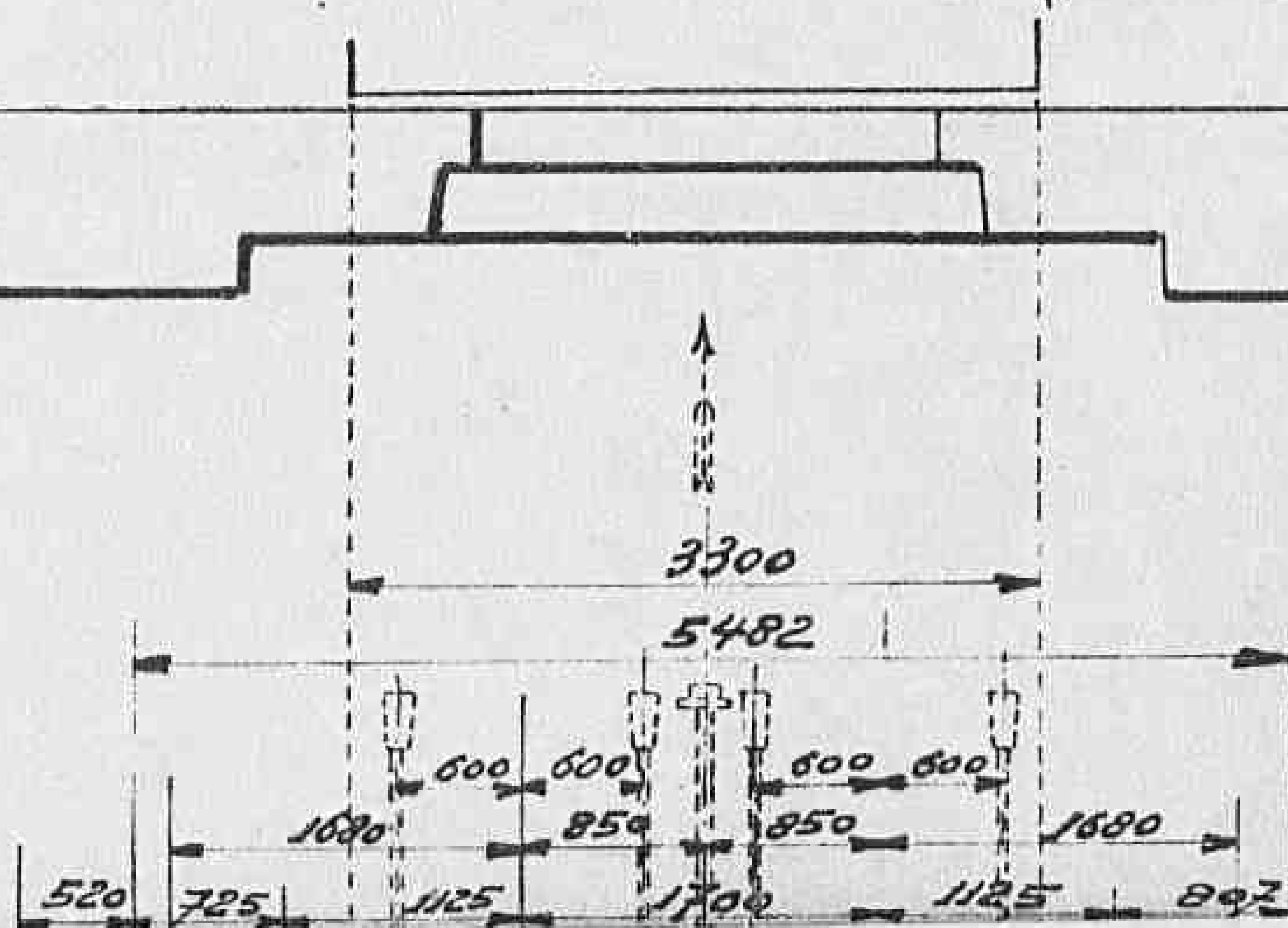
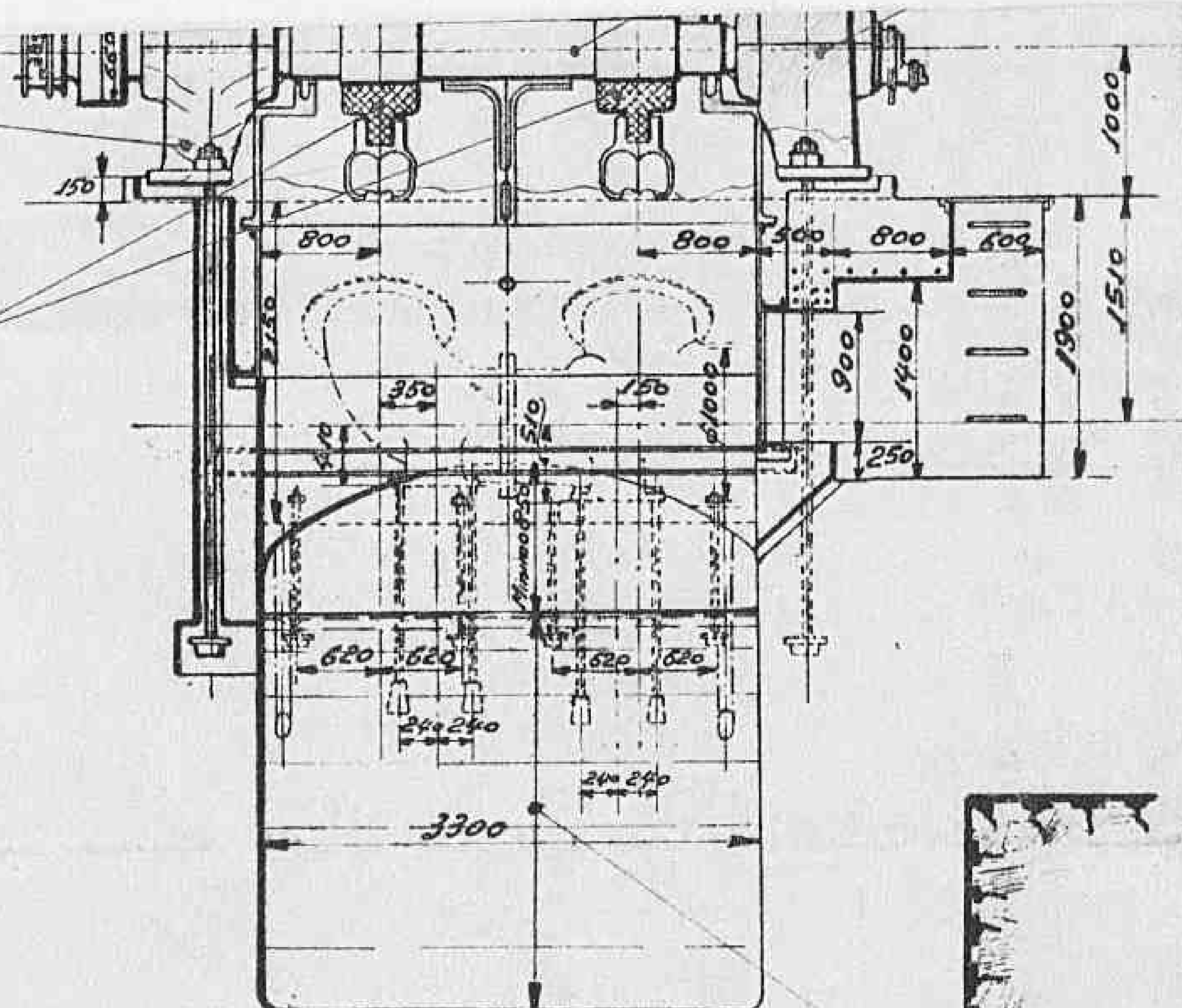
Esamento
lesionato o spaccato

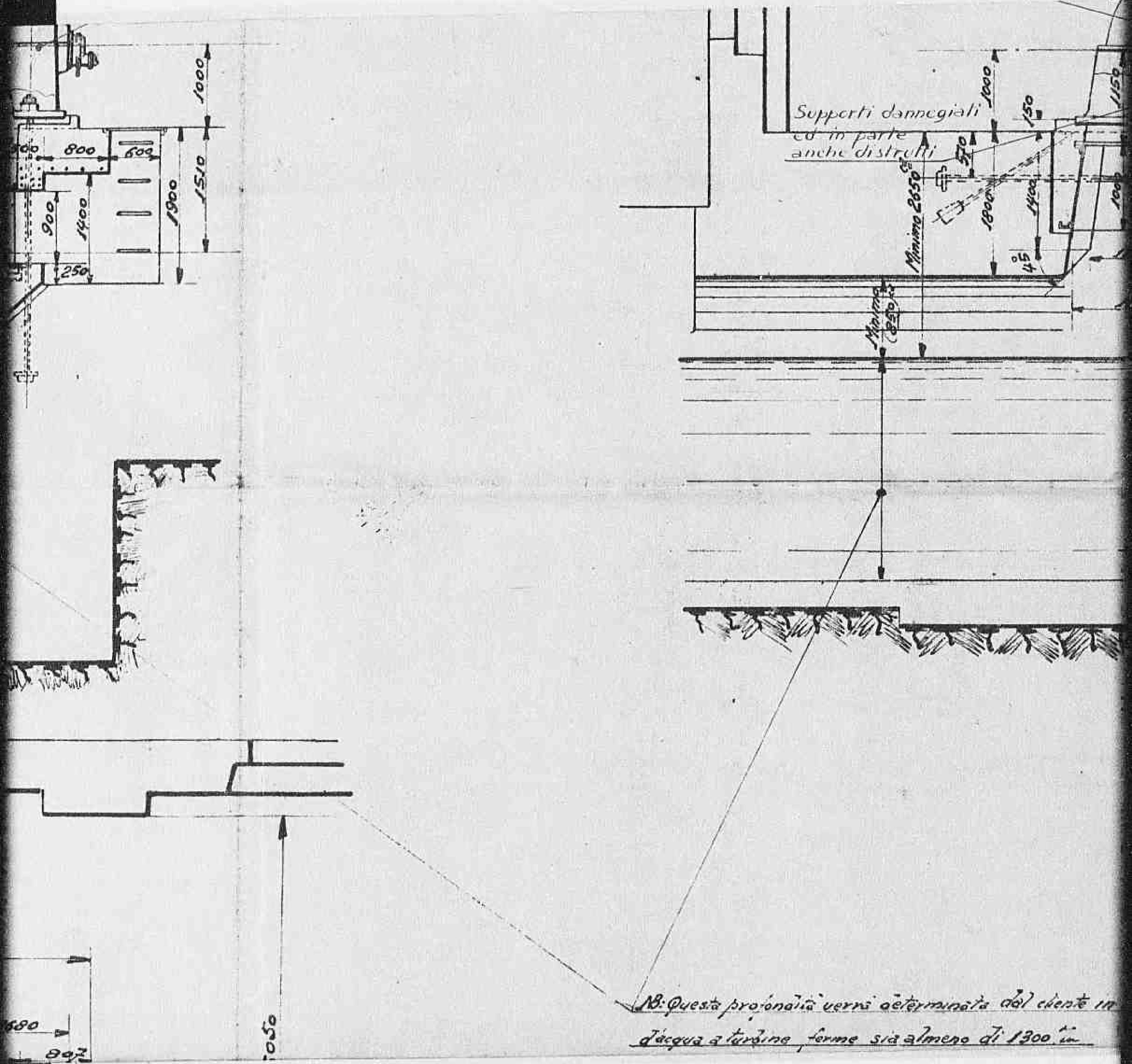
Giranti con mozzì in
discrete condizioni
1/3 delle palette distr



*Basamento
lesionato o spaccato*

*Ciranti con mozzi in
discrete condizioni e
1/3 delle palette distrutte*

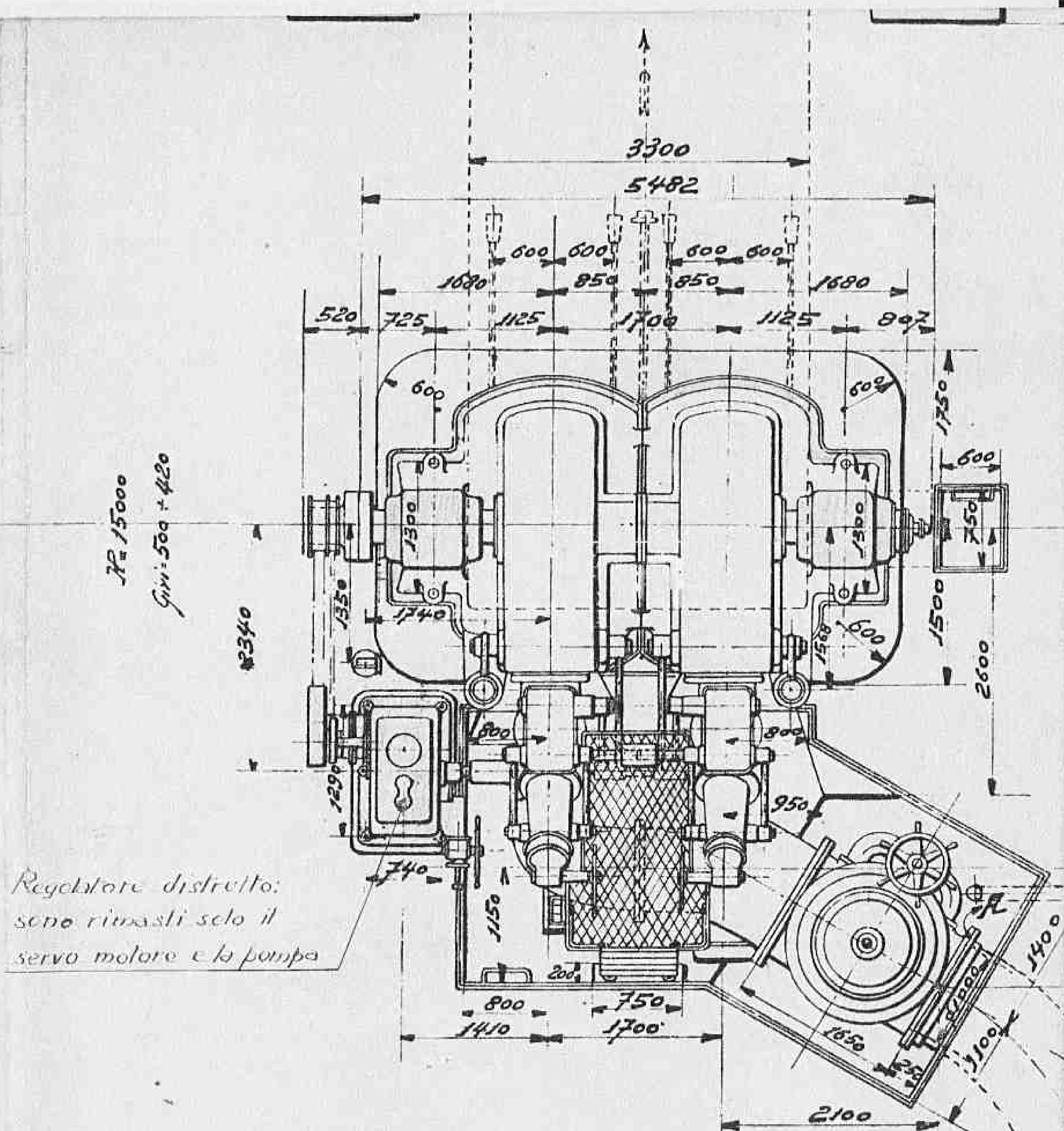




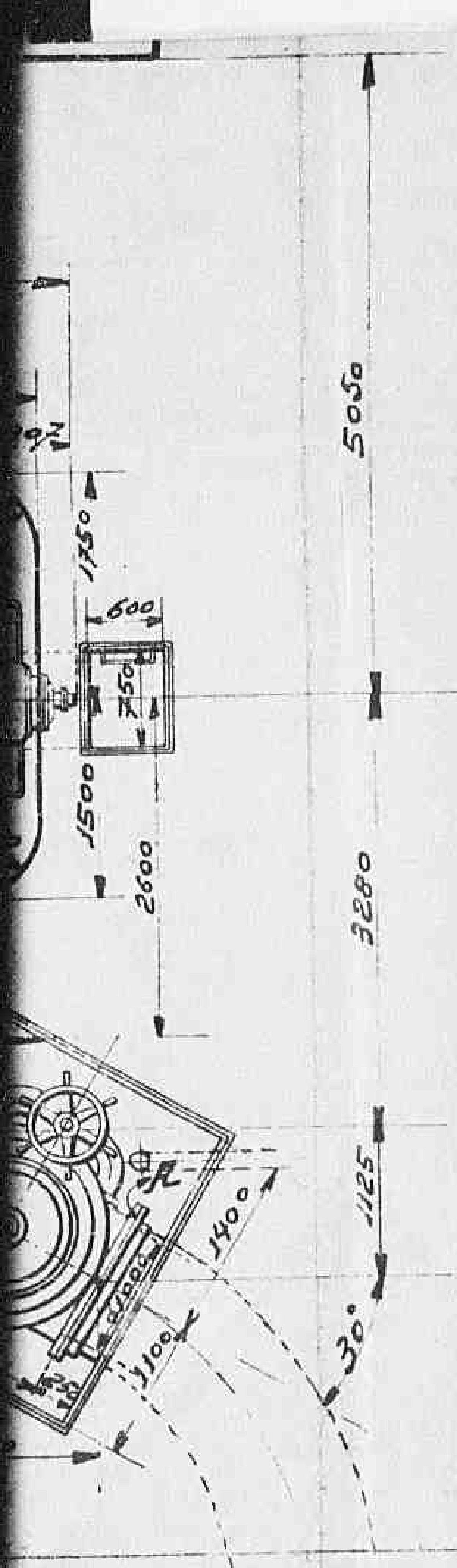
H_2 15000
Giri: 500 + 420

Regolatore dis
sono rimasti
servo motore

Diseg. di Michelotti	Lucio Boari Mario	Contr. alla	Data 3.5.922
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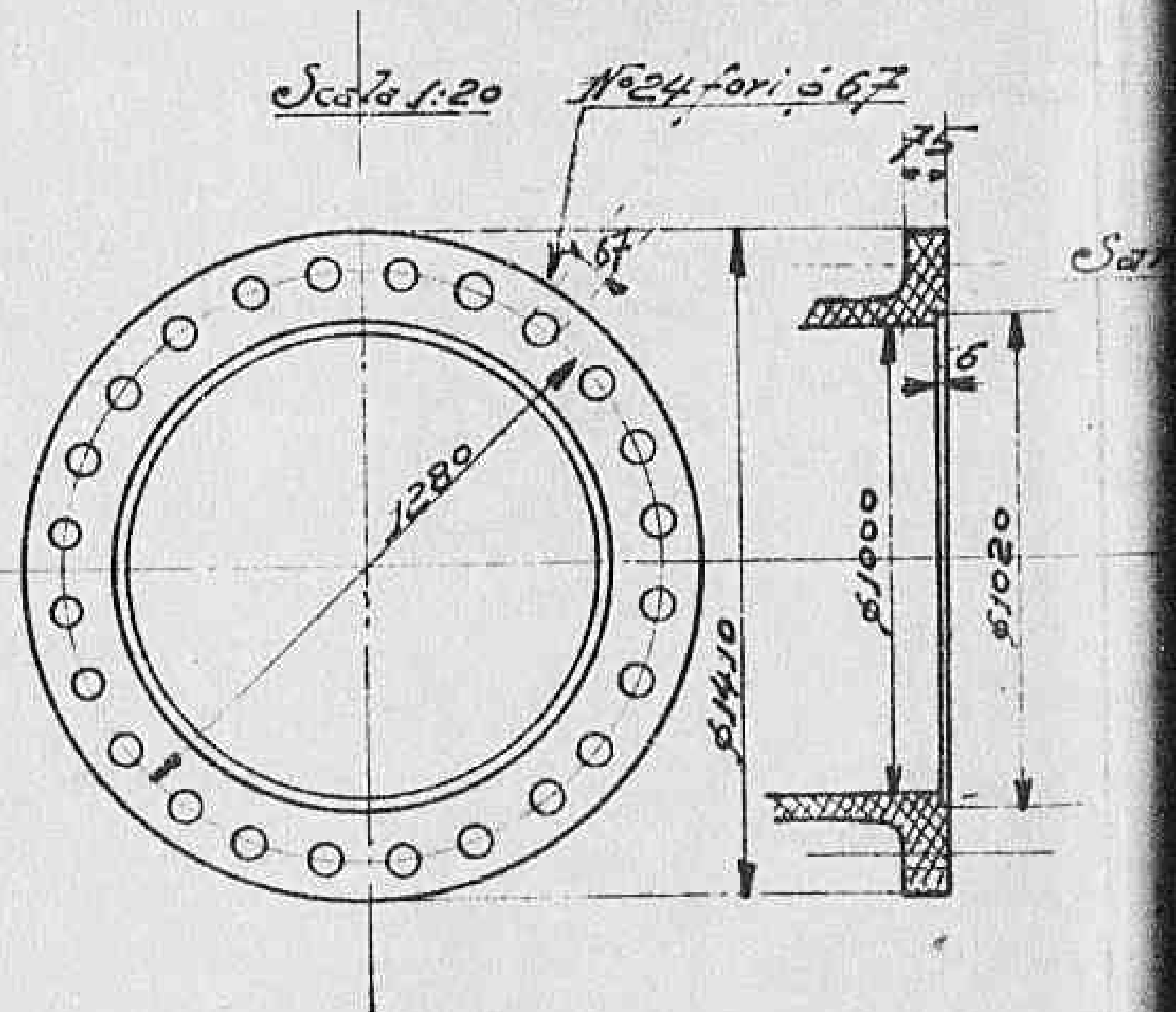


1003



NB. Questa proporzione verrà determinata dal cliente in modo
d'acqua a turbine, ferme sia almeno di 1300 in

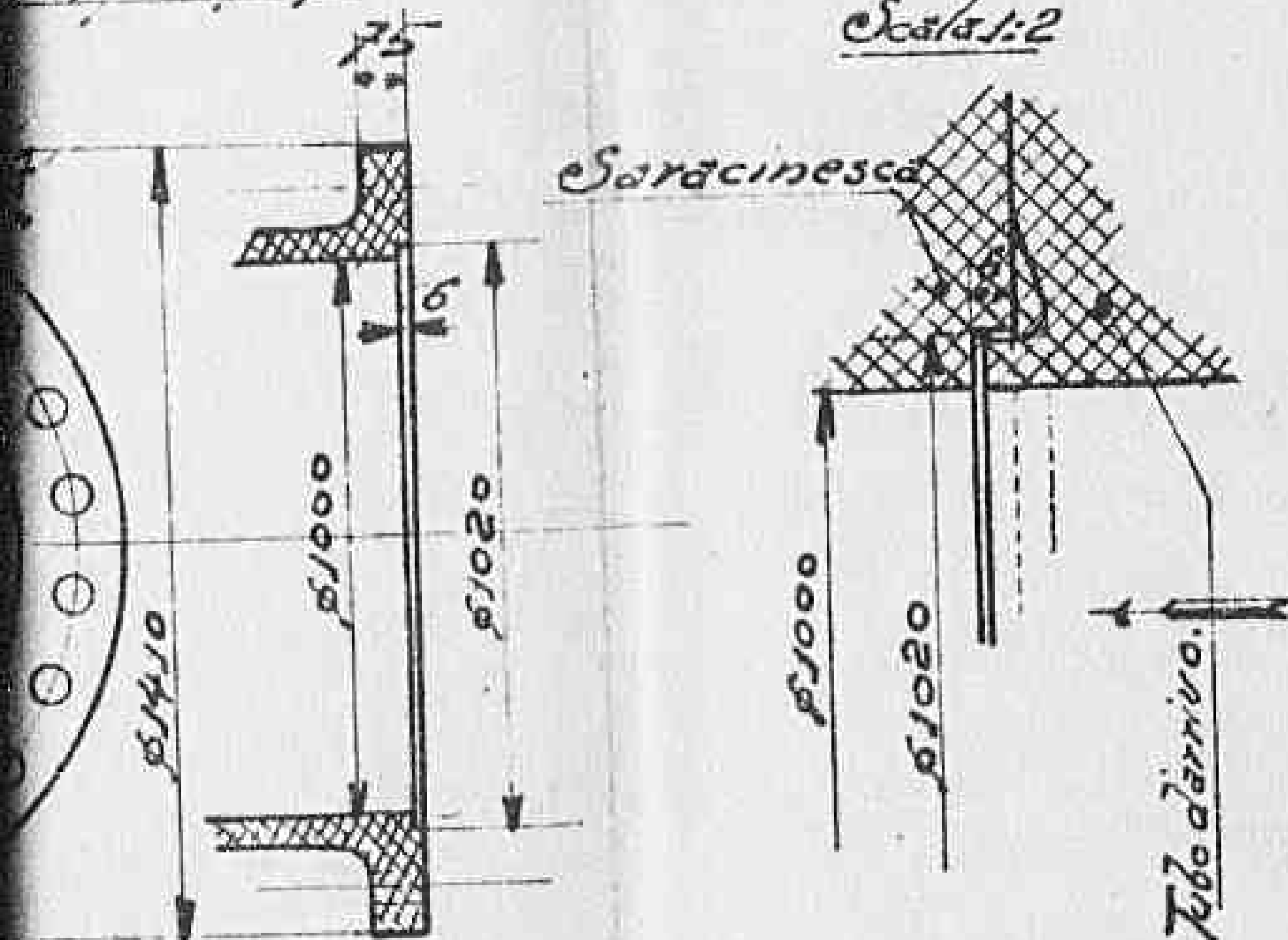
Dettaglio della flangia R della



unite del cliente in modo che il cuscino
 non di 1300 in

o della flangia H della saracinesca

24 fori 567



Osservazioni

- 1°) La flangia H della nostra saracinesca verrà fornita già forata.
- 2°) I fori della flangia corrispondente del tubo d'arrivo verranno eseguiti al montaggio.
- 3°) I relativi 24 Bulloni 2 1/2 d'unione e la guarnizione di gomma non sono compresi nella nostra fornitura.

Tel. 317

MEMORANDUM

8 Dec. 44

Reference : 158/PWU

Subject : Repair hydro-electric Plant Sagittario

To : TRANSPORTATION SUB-COMMISSION, A.C. ✓
From : P.W. & U. Sub-Commission

- 1) - Reference letter 24 Nov. 44 - tn/E/IS.
- 2) - Public Works and Utilities S.C., A.C. is agreeable to accepting the responsibility for supervising the repair of the above plant.
- 3) - Any confirmation action necessary on the part of the E.R.C. committee will be taken at their next meeting.
- 4) - Since the Electrical Division of Public Works & Utilities S.C. A.C. is charged with the responsibility of all planning on electrical rehabilitation it is suggested that all matters of a similar character be referred to them directly.

cc : M.R.S.
cc : P.W. & U. ELEC. DIVISION A.C.

L.W. Laughlin
L.W. LAUGHLIN
Captain, S.R.
Secretary
Elec. Recons. Com. Italy

3267

108/2/6

AHS/ef

ALLIED COMMISSION
TRANSPORTATION SUB COMMISSION
RAILWAYS

Ref.A.C. Tn/E/IS

Nov. 24th 1944

SUBJECT : Repair Hydro-Electric
Plant Sagittario

TO : Electrical Reconstruction
Committee.

1. A request has been received from the Italian State Railways for the repair of the above plant.
2. This station formerly consisted of three generating sets of 15 000 HP each, two of these are very badly damaged, but the third is repairable.
3. Cost of work estimated 30.000.000 lire.
4. Estimated time 6 months.
5. The repair of this station has been discussed by representatives of I.S.R. M.R.S. and A.C.Tn.
6. It is felt, that it is better to concentrate all electrical repair work under one head and thus ensure co-ordination of effort, and it is therefore suggested that this work be supervised by the Public Works Sub Commission A.C.
7. Priority of supply of current for railway purposes will of course be recognised.
8. Your approval of above is requested.

Copy : M.R.S.
Copy : P. Works Utilities
Electrical Sect.

O. H. Lindberg, Lt. Col.
O.H. LINDBERG, LT. COL., R.E.
TRANSPORTATION SUB COMMISSION
RAILS. 3266

AHS/ef

108/2/5

ALLIED COMMISSION
TRANSPORTATION SUB COMMISSION
RAILWAYSRef. AC/Tn/E/IS
Nov. 16th 44TO : THE DIRECTOR
TRANSPORTATION SUBCOMMISSIONSUBJECT : REPAIR HYDRO - ELECTRIC
PLANT SAGITTARIO.

1. Attached are all papers in connection with application, received from the Director General Italian State Railways, for the repair of above plant.
2. May this matter be referred to the Electrical Reconstruction committee.
 - a) for approval under section 2d. Administrative memo N° 43. ✓
 - b) for decision as to who will supervise work under section 2e of above circular. ✓
3. It should be noted that the question of supervision of the work has been discussed between Capt. Kubale M.R.S.
 - Major Renton, Public Works (Electrical)
 - Major Street, Transportation Subcommittee, AC, Eng.and it was agreed that the proper branch to supervise this work was the Public Works (Electrical) so as to coordinate all repairs to electrical supplies under one head.
4. It should be borne in mind, that this station formerly supplied civilian as well as railway needs.

3285
O. H. Lindberg, Lt. Col.
O.H. LINDBERG, LT. COL., R.E.
TRANSPORTATION SUBCOMMISSION
RAILS.

COBY

RECEIVED

NOTED

108/8/3

ALLIED FORCE HEADQUARTERS

AFHQ 512

ADMINISTRATIVE MEMORANDUM

NUMBER

43

5 October 1944

POWER REHABILITATION

1. The function of power rehabilitation having been transferred to control of AFHQ the following will govern:

2. a. The Chief Engineer, AFHQ, will

- (1) Exercise staff supervision of power rehabilitation activities.
- (2) Recommend rehabilitation policies.
- (3) Coordinate power rehabilitation activities of the various agencies concerned.

b. Electrical Reconstruction Committee.

- (1) The Central Electrical Board, Italy, is dissolved. There is hereby created an Electrical Reconstruction Committee (Italy), with membership as follows:

Chief Engineer AFHQ (Chairman).

Representatives of: ACC, R.N., AII and CZ, NATOUSA.

It is requested that ACC, R.N., AII and CZ, NATOUSA, advise AFHQ of representatives selected for membership.

- (2) The Electrical Reconstruction Committee will:

- a. Meet at the call of the Chairman.
- b. Recommend studies for determining power requirements as may be required.
- c. Recommend study of and preparation of plans for power rehabilitation as may be required.
- d. Review ACC plans for power rehabilitation, correlating them with the requirements and make recommendations as to extent and nature of rehabilitation.
- e. Recommend designation of agency to perform specific construction work of rehabilitation, when necessary.
- f. Make such other recommendations regarding power rehabilitation as it deems necessary.

3264

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 - (2) Recommend rehabilitation policies.
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Representatives of: ACC, R.N., AAI and CZ, NATOUSA.

It is requested that ACC, R.N., AAI and CZ, NATOUSA, advise AFHQ of representatives selected for membership.
 - (2) The Electrical Reconstruction Committee will:
 - a. Meet at the call of the Chairman.
 - b. Recommend studies for determining power requirements as may be required.
 - c. Recommend study of and preparation of plans for power rehabilitation as may be required.
 - d. Review ACC plans for power rehabilitation, correlating them with the requirements and make recommendations as to extent and nature of rehabilitation.
 - e. Recommend designation of agency to perform specific construction work of rehabilitation, when necessary.
 - f. Make such other recommendations regarding power rehabilitation as it deems necessary.
- c. The ACC will:
 - (1) Furnish Secretariat for the Electrical Reconstruction Committee.
 - (2) Be responsible for planning power rehabilitation throughout Italy.
 - (3) Maintain liaison with AAI and keep informed as to existence and condition of power plants and probable rehabilitation needs in operational area.

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RESTRICTED

AFHQ Admin Memo # 43 (cont'd)

5 October 1944

- (4) Ascertain power requirements from AAI, CZ, MATCUSA, Districts (Pr), and other sources.
- (5) Submit plans for rehabilitation to the Chief Engineer for consideration and approval of the Electrical Reconstruction Committee.
- (6) Using Italian labor and local materials, direct, administer and supervise construction work of rehabilitation and operate the power systems except those projects specifically assigned other agencies by AFHQ and except as provided in paragraphs 2d (2) and 2e (1).
- (7) Will issue all orders necessary to implement the program to Italian Power Companies or other civilian agencies.
- (8) Keep the Chief Engineer, AFHQ, advised of its activities.

d. AAI will:

- (1) Cooperate with ACC in determining existence and condition of power plants and probable rehabilitation needs in the operational area.
- (2) Insofar as practicable initiate, construct and operate such power installations within the operational area as it considers necessary, coordinating with plans of ACC.
- (3) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.

e. CZ, MATCUSA and Districts (Pr) under command AFHQ will:

- (1) Initiate, construct and operate such power installations as are required locally for their own activities.
- (2) Undertake such general power rehabilitation projects as may be specifically assigned by AFHQ.
- (3) Cooperate with ACC and AAI and render them such aid and assistance as is practicable within available means and without detriment to their own operations.
- (4) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.

3. Orders to implement plans will be issued through normal staff channels in respect to work for which military agencies are to be responsible.

consideration and approval of the Committee.

- (6) Using Italian labor and local materials, direct, administer and supervise construction work of rehabilitation and operate the power systems except those projects specifically assigned other agencies by AFHQ and except as provided in paragraphs 2d (2) and 2e (1).
- (7) Will issue all orders necessary to implement the program to Italian Power Companies or other civilian agencies.
- (8) Keep the Chief Engineer, AFHQ, advised of its activities.

d. AFHQ will:

- (1) Cooperate with AOC in determining existence and condition of power plants and probable rehabilitation needs in the operational area.
- (2) Insofar as practicable initiate, construct and operate such power installations within the operational area as it considers necessary, coordinating with plans of AOC.
- (3) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.
9. G4, NATOUSSA and Districts (Br) under command AFHQ will:
 - (1) Initiate, construct and operate such power installations as are required locally for their own activities.
 - (2) Undertake such general power rehabilitation projects as may be specifically assigned by AFHQ.
 - (3) Cooperate with AOC and AII and render them such aid and assistance as is practicable within available means and without detriment to their own operations.
 - (4) Advise the Chief Engineer, AFHQ, of any power rehabilitation work undertaken.

3. Orders to implement plans will be issued through normal staff channels in respect to work for which military agencies are to be responsible.

4. The agencies mentioned above will furnish the required personnel from their own allotments.

By command of General WILSON.

/s/ H.V. Roberts

H.V. ROBERTS,
Colonel, AGP,
Adjutant General.

- 2 -

DISTRIBUTION
"C"

RESTRICTED

AHS/em

10/2/2

HEADQUARTERS
ALLIED COMMISSION
Transportation Sub Commission
Railways
APO 394

REF. : AC.Tn/5/1

8th November 1944

SUBJECT : Repair to the hydro-electric plant
at Sagittario.TO : Director Public Works Sub Commission
Electrical Section
Attention Major Renton

1. Reference conversation of today Street-Renton re the above.
2. I attach original of request from the Italian State Railways for repair of above plant.
3. It is considered that this work should be carried out.
4. Drawings referred to were left with Major Renton.
5. It has been agreed between Major Street A.C.Tn. and Capt. Kubale of M.R.S. that in view of the shortage of electrical power and to prevent overlapping it will be better if all repair to electrical power plants be concentrated under one control.
6. It is therefore agreed that the work required at Sagittario should be regulated by the Public Works Sub Commission
7. No further work involving the power stations or transmission lines of the Italian State Railways be put in hand without previous consultation with M.R.S. and A.C.Tn.
8. Military Railway Services will require current for Orte-Falconara line on 1st December.

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- 2 -

9. It is felt that the suggestions in paras 4, 5, 6, will give more economical use of power supply and lines and facilitate reconstruction.

D.S. ADAMS, Colonel,
Director Tptn.S.C., A.C.

Copy to : M.R.S.
I.S.R.

CG/ic

TRANSPORTATION SUB-COMMISSION(AC)
(Rail Section)
C/o Transportation Increment
C. M. F.

Tel: 843207
Our Reference: AC/108/2

15 December 44.

TO : Public Works and Utilities Sub-Commission
HQ. AC.
Electrical Division

SUBJECT : Repair of hydro-electric plant Sagittario.

1. In consequence of para 4 of memorandum reference 158/PWU dated 8 Dec.44, on attache file, complete file is passed to you for necessary action.

O.H. LINDBERG
Lt.Col. R.E.,
Chief, Rail Section.

825-

Roms,

17/18/19182, E4C

Commissione Alleata
Sotto Commissione Trasporti
Colonnello L.M. Vining

A.E.C. 324

Riparazione impianti idroe-
lettrici del Saggiataro.

3 disegni
e 2 prospetti

Gli impianti idroelettrici del Saggiataro sono stati danneggiati dai guastatori tedeschi e, più particolarmente, nella Centrale sono stati pressoché distrutti due dei tre gruppi generatori della potenza di 15.000 HP ciascuno, mentre il terzo ha subito solamente danni, che pur essendo notevoli, possono però essere riparati in un tempo relativamente breve cioè entro 6 mesi.

Nella Centrale sono pure stati distrutti, mediante incendio, tre grossi trasformatori della potenza di 12.500 KVA. ciascuno, che provvedevano al collegamento con le condutture primarie a 60 KV. delle Ferrovie dello Stato, ma questo collegamento potrebbe essere ripristinato in breve tempo installando nella Centrale un trasformatore che verrebbe prelevato da un altro impianto delle stesse Ferrovie dello Stato.

Altri due grossi trasformatori, della potenza di 9.000 KVA. ciascuno, che servivano al collegamento della Centrale con le condutture a 90 KV. della Società Meridionale di Elettricità, hanno invece riportato danni meno ingenti, così che almeno uno di questi trasformatori potrebbe essere riparato facilmente ed in poco tempo.

Contemporaneamente alla riparazione o sostituzione dei macchinari potrebbero essere riparate anche le apparecchiature condutture, che non hanno subito molti danni, così che entro 6 mesi sarebbe possibile ripristinare il funzio-

Commissione Alleata
Sotto Commissione Trasporti
Colonello L.M. Vining

A.F.C. 324

Riparazione impianti idroelettrici del Segittario.

3 disegni
e 2 prospetti

Gli impianti idroelettrici del Segittario sono stati danneggiati dai questatori tedeschi e, più particolarmente, nelle Centrale sono stati pressoché distrutti due dei tre gruppi generatori della potenza di 15.000 HP ciascuno, mentre il terzo ha subito solamente danni, che pur essendo notevoli, possono però essere riparati in un tempo relativamente breve cioè entro 6 mesi.

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mento della Centrale con un gruppo generatore delle potenze di 12.500 KVA.

La Centrale del Segittario utilizza una portata costante di 6,3 mc./l" con la caduta netta di m. 328,50 cosicchè rimettendo in efficienza il suddetto gruppo generatore si disporrà delle potenze continuative di 12.000 KVA. e di una produzione annua di energia di almeno 60.000.000 di KWH.

La Centrale del Segittario ha sempre funzionato in parallelo con le centrali della Società Terni e della Società Meridionale di Eletticità, contribuendo a fornire la potenza base del diagramma complessivo di erogazione.

Sarebbe certamente di grande importanza potere ripristinare il suddetto funzionamento in parallelo e specialmente quello della Centrale del Segittario con la Centrale di Galletto della Società Terni, e ciò anche in vista del servizio che la Centrale di Galletto dovrà fare, prossimamente, per l'alimentazione dell'esercizio dei treni elettrici sulla linea Falconara-Orte che presenta notevole interesse per i trasporti militari ed è perciò stato richiesto dal M.A.S.

Pertanto si ritiene conveniente chiedere l'autorizzazione di eseguire, iniziandoli subito, i lavori di riparazione indispensabili per raggiungere il suddetto scopo e per i quali sono stati, intanto, già fatti gli studi necessari nel senso, appunto, di rimettere in efficienza il gruppo turbine-alternatore riparoile nel minor tempo possibile e di trasformatori ed agli apparecchi occorrenti che verrebbero in parte anch'essi riparati ed in parte sostituiti.

I principali lavori da eseguire comprendono le fusioni di acciaio per ripristinare l'estremità della condotta forzata e alcune parti della turbina Pelton, la riparazione degli avvolgimenti dell'alternatore e la sostituzione dell'eccitatrice dello stesso alternatore. Le riparazioni di poca entità richieste da un trasformatore delle potenze di 9.000 KVA., il riordino delle apparecchiature elettriche, alcune indispensabili riparazioni al fabbricato della Centrale, e la rimessa in efficienza delle gru elettrica che presenta danneggiamenti solamente le due travi del ponte di scorrimento.

Le fusioni di acciaio dovrebbero essere fatte presso le acciaierie di Terni.

Le riparazioni ai macchinari elettrici ed alle apparecchiature verrebbero fatte per mezzo di Ditte specializzate quali il Tecnomsio Italiano Brown Boveri, la Compagnia Generale di Eletticità, la Ditta M.A.S.A. e altre Ditte che dispongono in Roma di personale tecnico e di mezzi idonei.

Alle più indispensabili riparazioni del fabbricato della Centrale si è ritenuto opportuno provvedere in precedenza per evitare ulteriori danni al fabbricato stesso ed ai macchinari.

La riparazione della gru potrà essere affidata alla Ditta Zerbini.

almeno 60.000.000 di L. 1018

La Centrale del Sagittario ha sempre funzionato in parallelo con le centrali della Società Terni e della Società Meridionale di Elettricità, contribuendo a fornire la potenza base del diagramma complessivo di erogazione.

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Le fusioni di acciaio dovrebbero essere fatte presso le Acciellerie di Terni.

Le riparazioni ai macchinari elettrici ed alle apparecchiature verrebbero fatte per mezzo di Ditte specializzate quali il Tecnomsio Italiano Brown Boveri, la Compagnia Generale di Elettricità, la Ditta M.A.T.E.R. e altre Ditte che dispongono in Roma di personale tecnico e di mezzi idonei.

Alle più indispensabili riparazioni del fabbricato della Centrale si è ritenuto opportuno provvedere in precedenza per evitare ulteriori danni al fabbricato stesso ed ai macchinari.

La riparazione della gru potrà essere affidata **3260** Ditta Verci nati o alla Ditta Francini.

Per il complesso di tutti i lavori occorrenti si prevede la spesa se di L. 30.000.000.

In considerazione di quanto sopra esposto e, particolarmente,

2° foglio

Seguito delle
lettere N. 17/18/

della grande importanza che assume, nell'attuale momento e per le esigenze belliche, ogni possibilità di aumentare la produzione di energia elettrica, si chiede a Codesta Commissione di volere autorizzare l'esecuzione dei lavori necessari per rimettere in efficienza un gruppo generatore della potenza di 10.000 KW, nella Centrale del Segittario delle Ferrovie dello Stato.

Si allegano alla presente:

- il disegno N. 2849 riproducente il profilo e la planimetria degli impianti del Segittario;
- il disegno 88 riproducente lo schema dei circuiti elettrici della Centrale;
- il disegno N. 1463 con indicate le parti da riparare della turbina Pelton;
- il prospetto dei lavori e delle relative spese;
- il prospetto delle Ditta da invitare per i lavori.

IL DIRIGENTE GENERALE

929

MINISTERO DELL' COMUNICAZIONE
THE GENERAL DIRECTOR

11/801
Rome, 27.10.44

TO THE ALLIED CONTROL COMMISSION
TRANSFORMATION SUB COMMISSION
COL. A. B. VINING

Repair to the hydro-electric
plants in Sagittario.

Attached: 3 drawings
2 prospectus.

The hydro - electric plants in Sagittario have been damaged by the Germans, and particularly two of the three existing generator groups - each one 15,000 HP - have been partly destroyed, whilst the third one has only suffered damages, which are repairable within 6 months.

A fire destroyed three large transformers, - each one 12,500 KVA - which formed the main transmission lines of 60 KV of the Italian Station Railways. The said connection could be re-established, placing in the plant a transformer which can be taken away from another Railway plant.

Two other 9,000 KVA transformers which connected the plant with the transmission lines 90 KV of the "Società Meridionale di Eletticità" have suffered less damages, and therefore one of these transformers can be easily repaired.

The apparatus and the transmission lines which have not been damaged can be put in working order within 6 mesi, as with a generator group of 12,500 KVA.

The Sagittario plant utilize a constant gauge of 4,3 m/15 with a net fall of 328.50 metres, and therefore, if we put in working order the said generator group in working order, we will have at our disposal direct current of 10,000 KW and a yearly production of at least 60,000,000 KWH current.

It is certainly very important to put in working order the said plant as well as the plant of Sagittario and the Gallio plant of the "Società Terni", the latter will feed within the electric trains on the line Falconara - Orte, which is very important for military transports, and the M.R.S. requested it.

We ask the authorization to start immediately with the indispensable repairs. It is our intention to put the turbine alternator group as well as the transformers and the necessary apparatus which will be partly repaired and partly replaced.

The most important works to be carried out are as follows:

The melting of the steel in order to re-establish the end of the

32-3

Attached: 3 drawings
2 prospectus.

The hydro - electric plants in Sagittario have been damaged by the Germans, and particularly two of the three existing generator groups - each one 15,000 HP - have been partly destroyed, whilst the third one has only suffered damages, which are repairable within 6 months.

A fire destroyed three large transformers, - each one 12,500 KVA - which connect the main transmission lines of 60 KV of the Italian Station Railways. The said connection could be re-established, placing in the plant a transformer which can be taken away from another Railway plant.

Two other 9,000 KVA transformers which connected the plant with the transmission lines 90 KV of the "Società Meridionale di Elettricità" have suffered less damages, and therefore one of these transformers can be easily repaired.

The apparatus and the transmission lines which have not been damaged can be put in working order within 6 mesi, as with a generator group of 12,500 KVA.

The Sagittario plant utilize a constant gauge of 4,3 m/15 with a net fall of 328.50 metres, and therefore, if we put in working order the said generator group in working order, we will have at our disposal direct current of 10,000 KW and a yearly production of at least 60,000,000 KWH current.

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We ask the authorization to start immediately with the indispensable repairs. It is our intention to put the turbine alternator group as well as the transformers and the necessary apparatus which will be partly repaired and partly replaced.

The most important works to be carried out are as follows:
The melting of the steel in order to re-establish the end of the transmission and some parts of the Pelton turbine, the repairs to the alternator and to the exciter of the alternator, the light repairs to a 9,000 KVA transformer, putting in order electric equipments, a few indispensable repairs to the building of the plant, and to put in order the electric crane.
The steel will be melted in the steel works of Terni.

..

- 2 -

The repairs to the electric machineries and apparatus will be carried out by specialized firms which are: Leonomario Italiano Brown Boveri, "Compagnia Generale di Eletticit " the firm M.A.T.E.R. and other firms which have at their disposal in Rome technical personnel and necessary means.

The indispensable repairs to the building of the plant have already been carried out, in order to avoid ulterior damages to the building and to the machineries.

The repair to the crane can be carried out by the firm "Zerbinati or "Pranchi".

The cost of the said works will be 30.000.000 Lire.

Taking into consideration what has been explained above, and particularly the great importance of the said works at the present time to increase the electric current, we kindly ask you to authorize the necessary works in order to put in efficiency a generator group of 12.500 KVA of the plant in Sagittario (I.R.).

we attach:

a drawing E.2949 showing the profile and the planimetry of the Sagittario plants.

the drawing 88, showing the scheme of the electric circuits of the plant

the drawing E.1468 regarding the parts which of the Pelton turbine which have to be repaired

the prospectus of the works and the cost

the prospectus of the firms which have to carry out the said works.

THE DIRECTOR GENERAL

s/ s Di Raimondo

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THE DIRECTOR GENERAL

s/e Di Raimondo

3257

COST OF THE RECONSTRUCTION OF A TURBINE = ALTERNATOR GROUP (12.500 K
IN THE MAIN PLANT SAGITTARO.

Repair to the S. Domenico dam	L. 500.000
Repair to the crane	" 750.000
Repair to the building (frames, windows floors, stairs, etc.	" 500.000
Provisional works	500.000
Repair to the transmission line (substitution etc) of the machine	750.000
Repair to the spare parts of the turbine, regular reconstruction, assembling etc.	500.000
Repair to the 4 supports of the group	3.000.000
Substitution of the missing parts of the carcasses of the alternator, repair to the stator and rotor reconstruction of the exciter	1.000.000
Repair to the container	2.000.000
supply of fuel, putting in working order the transformer of 9000 KVA, 6/90 KV	750.000
Completion and substitution of the electric machines of the plant and of all the auxiliary services	2.500.000
Revision, substitution, repair to the bars, lubricating and cooler plants, light etc.	3.500.000
Demolition, clearing away and reconstruction of the central building	750.000
Supply and putting in working order a group of complementary plant	1.000.000
Repair to the irrigating canal	500.000
Various repairs	500.000
Transports of machines etc.	3.000.000
Expenses etc. and contribution of the Administration for the mess and living quarters for 8 month	500.000
Recompenses to the personnel	500.000
Unforeseen expenses	L. 24.000.000
	3.600.000
General expenses (10%)	" 27.600.000
Total	<u>30.000.000</u>

Repair to the S. Domenico dam	L. 500.000
Repair to the crane	" 750.000
Repair to the building (frames, windows floors, stairs, etc.	" 500.000
Provisional works	500.000
Repair to the transmission line (substitution etc)	750.000
Repair to the of the machine	500.000
Repair to the spare parts of the turbine, regular reconstruction, assembling etc.	3.000.000
Repair to the 4 supports of the group	1.000.000
Substitution of the missing parts of the carcasses of the alternator, repair to the stator and rotor reconstruction of the exciter	2.000.000
Repair to the container	
supply of fuel, putting in working order the transformer of 9000 KVA, 6/90 KV	750.000
Completion and substitution of the electric machines of the plant and of all the auxiliary services	2.500.000
Revision, substitution, repair to the bars, lubrication and cooler of plants, light ect.	3.500.000
Demolition, clearing away and reconstruction of the central building	750.000
Supply and putting in working order a group of complementary plant	1.000.000
Repair to the irrigating canal	500.000
Various repairs	500.000
Transports of machines etc.	3.000.000
Expenses etc. and contribution of the Administration for the mess and living quarters for 8 month	500.000
Recompenses to the personnel	500.000
Unforeseen expenses	L. 24.000.000
	" 3.600.000
General expenses (10%)	" 27.600.000
	" 2.400.000
Total	" 30.000.000

3236

UFF. I.E.S. ROMA

LINEA:

Mandela - Sulmona

Parti da riparare

Parti da sostituire

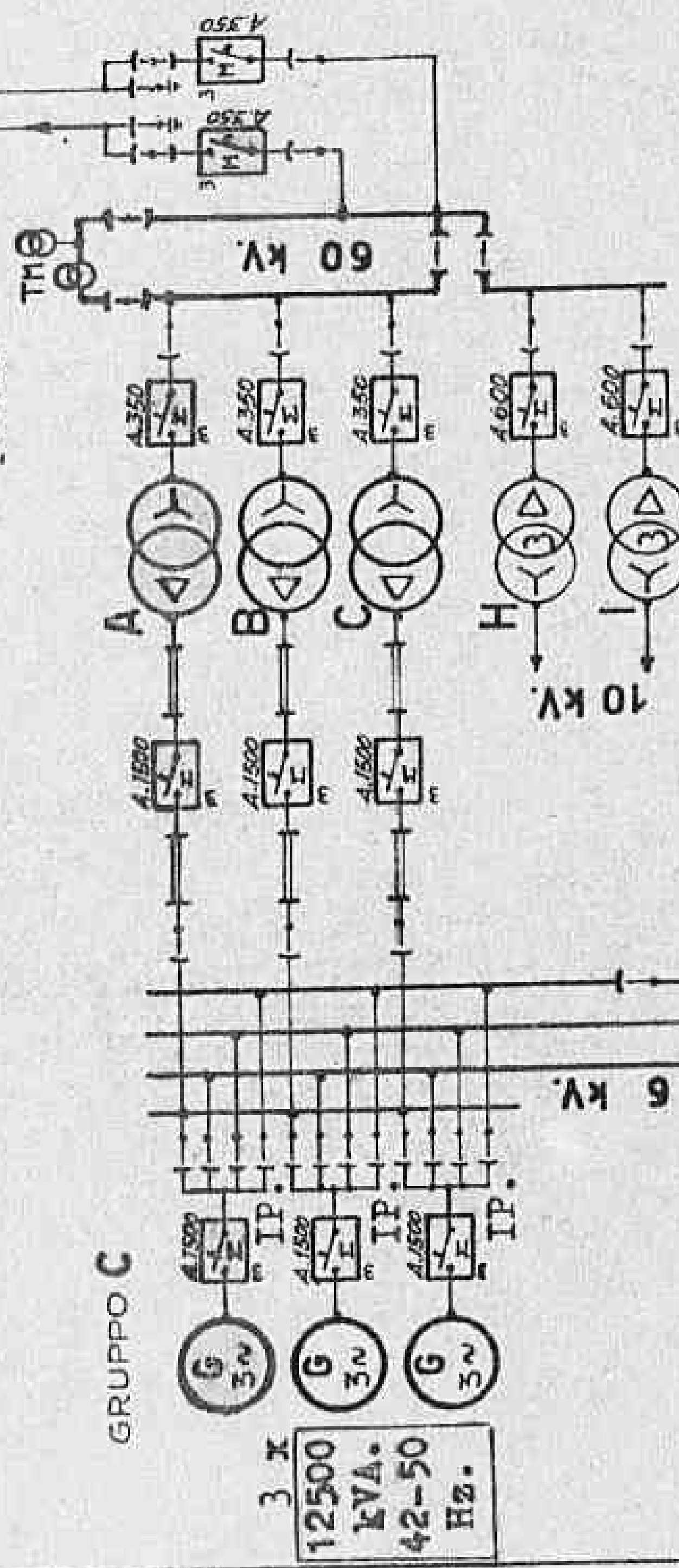
88

(V. foglio 87)

AVEZZANO

60 kV.
45 Hz.

p. Amb.



ANVERSA
CENTR. PRINCIP.
DEL SAGITTARIO

TRASFORMATORI

A-B-C	3 x	125000 kVA.
D-E	2 x	12500 "
F-G	2 x	3000 "
H-I	6 x	800 "

6 kV.

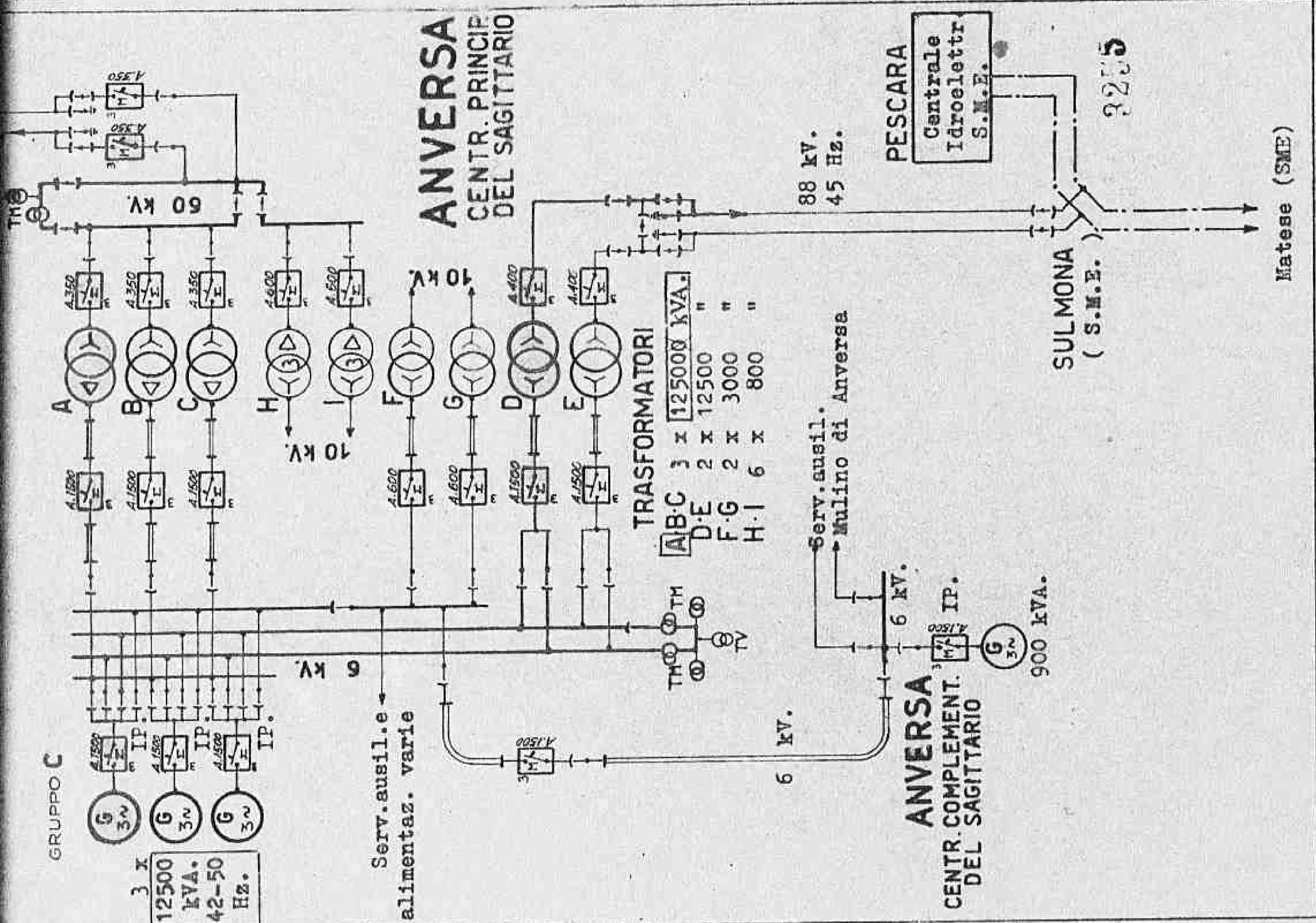
Serv. ausil.
Mulino di Anversa

88 kV.
45 Hz.

PESCARA

Centrale
Idroelett.
S.M.E.

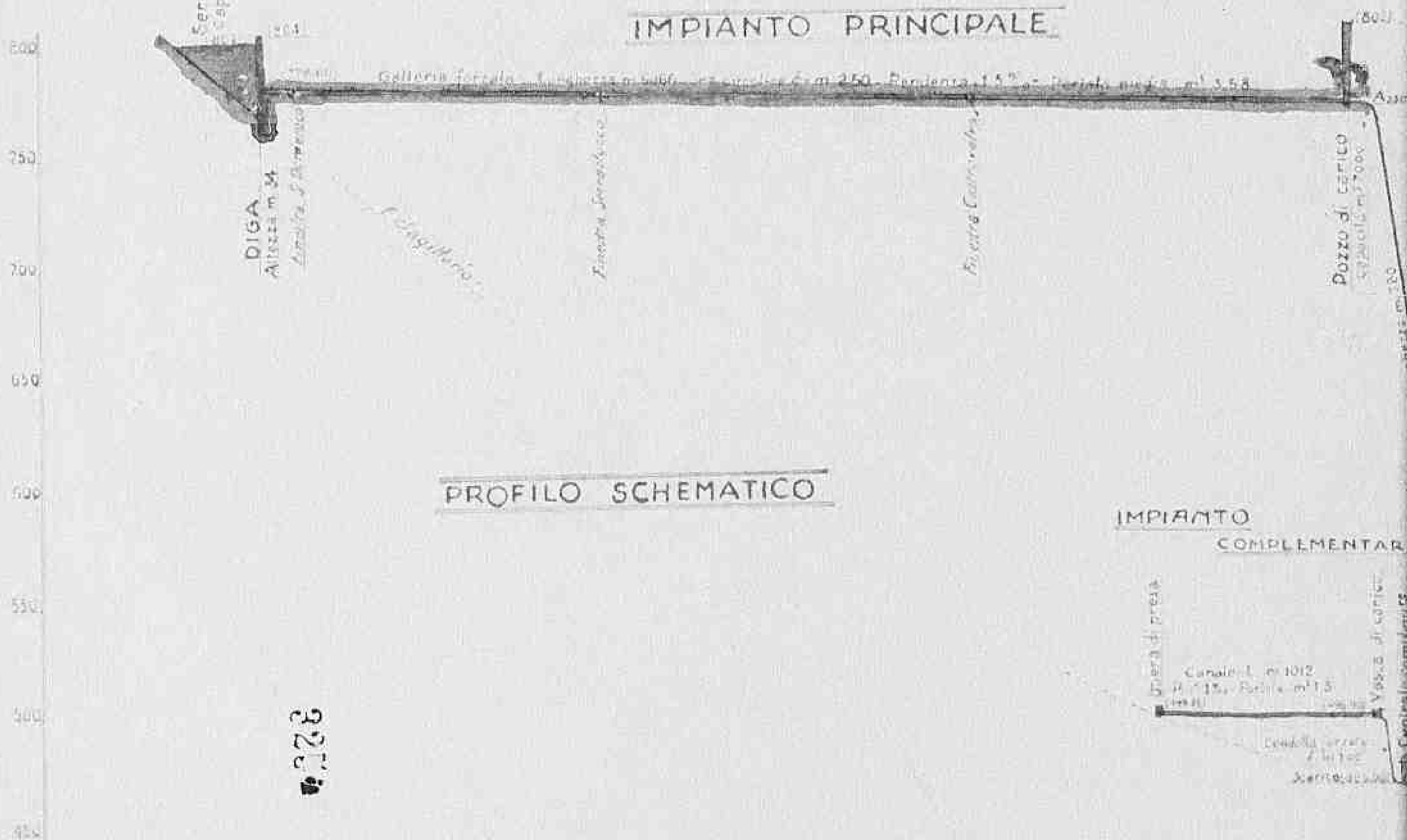
ANVERSA
CENTR. COMPLEM.
DEL SAGITTARIO



E 2849

IMPIANTI IDROELETTRICI DEL SAGITTARIO

IMPIANTO PRINCIPALE



IMPIANTO
COMPLEMENTAR

On average, 2.70

C. 12
650

IMPIANTI IDROELETTRICI DEL SAGITTARIO

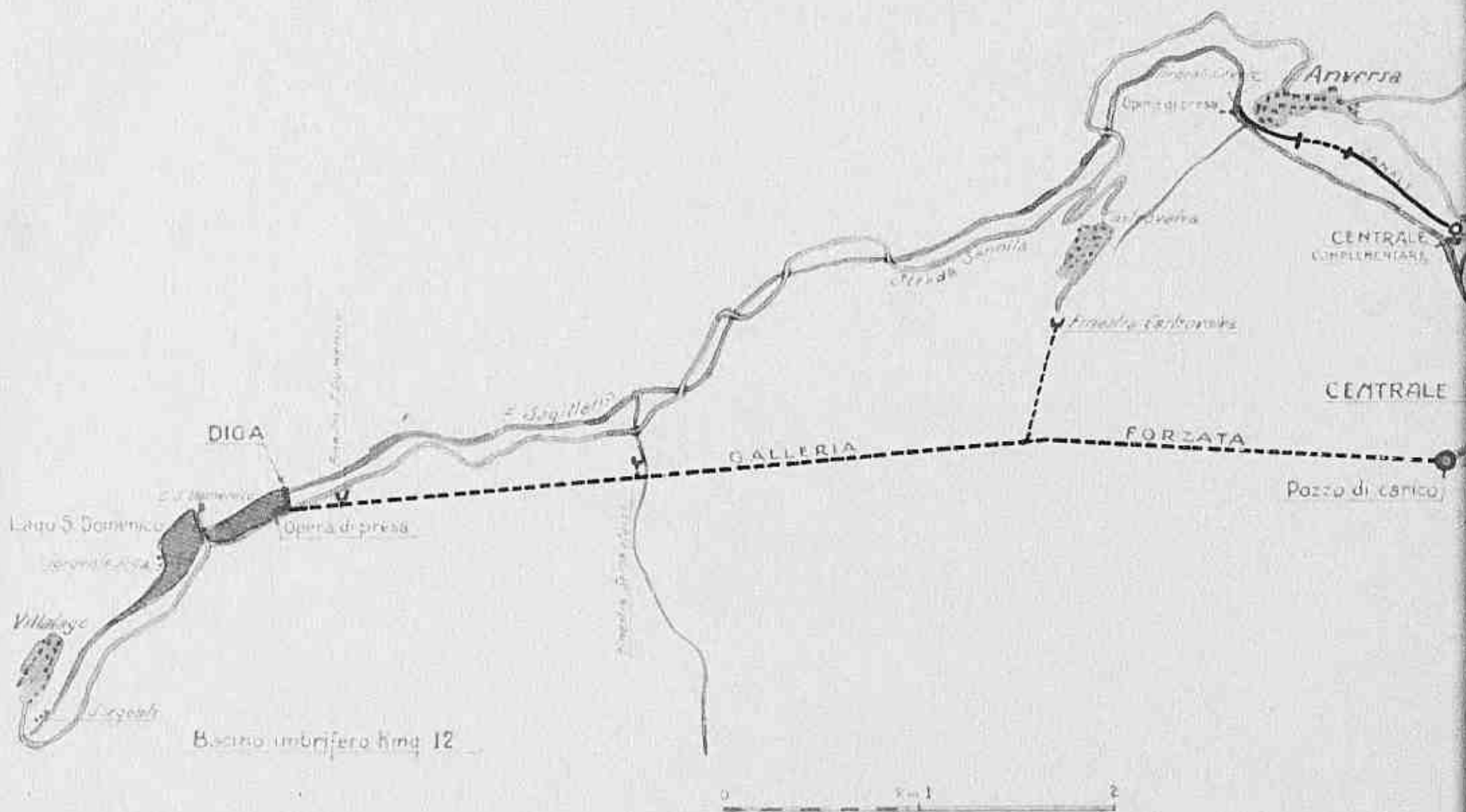
IMPIANTO PRINCIPALE

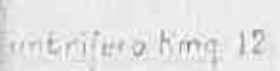


PROFILO SCHEMATICO

IMPIANTO
COMPLEMENTARE

PLANIMETRIA GENERALE





Aprile 1925

108/2/2
CG/1c

TRANSPORTATION SUB-COMMISSION(AC)
(Rail Section)
C/o Transportation Increment
C. H. F.

Tel: 843207
Our Reference: AC/108/2

15 December 44.

TO : Public Works and Utilities Sub-Commission
HQ. AC.
Electrical Division

SUBJECT : Repair of hydro-electric plant Sagittario.

1. In consequence of para 4 of memorandum reference 158/PWU dated 8 Dec.44, on attache file, complete file is passed to you for necessary action.

O.H. LIDBERG
Lt.Col. E.E.,
Chief, Rail Section.

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108/2/1

C O P Y

tel: 317

M E M O R A N D U M

Reference : 158/PWU
Subject: Repair hydro-electric plant
Sagittario.

8 Dec. 44

To: TRANSPORTATION SUB COMMISSION A.C.
From : P.W. & U. Sub Commission

- 1) - Reference letter 24 Nov. 44. - tn/E/IS.
- 2) - Public Works and Utilities S.C., A.C. is agreeable to accepting the responsibility for supervising the repair of the above plant.
- 3) - Any confirmation action necessary on the part of the E.R.C. committee will be taken at their next meeting.
- 4) Since the Electrical Division of Public Works and Utilities S.C. A.C. is charged with the responsibility of all planning on electrical rehabilitation it is suggested that all matters of a similar character be referred to them directly.

L.W. LAUGHLIN
Captain, S.R.
Secretary
Elec.Recons.Com.Italy

cc : MRS
cc : P W & U ELEC. DIVIS. A.C.

92

1034