DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

GHQ/SCAP Records (RG 331, National Archives and Records Service)

Description of contents

(1) Box no. 2870

(2) Folder title/number: (4)
Nippon Hassoden K.K. - Toyama Hatsuden Plant

(3) Date: Sept. 1946 - Sept. 1950

(4) Subject:

Classification	Type of record
9617, 9621	Z

(5) Item description and comment:

Toyama

(6) Reproduction: (Yes) No

(7) Film no. Sheet no.

(Compiled by *National Diet Library*)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Date : Sept. 7, 1950

From : Tomoyoshi Nishijima, Acting Custodian of Toyama Steam Power Plant, Nippon Hassoden K. K. Ltd.

To : Commander of Tokai Civil Affairs Corps

Thru : Toyama Prefectural Government

Re : Application for the Partial Exemption of the Land designated for Reparations

1. Name of Designated Plant ;
   Toyama Steam Power Plant, Nippon Hassoden K. K. Ltd. 42--8

2. Locality :
   No. 6, Nakajima, Toyama City

3. Area of Land to be Exempted on Permission :
   Land...A Zone 1,111 sq. m. (See the accompanying map)

4. Reasons for Application :
   a) Toyama Factory of kokoku Rayon Pulp Company, which lies next to our plant, is going to have a new digester installed in order to make rapid increase in the production of rayon pulp. For that reason the factory must build newly a machinery room and a store house, and as the site for the two buildings the factory asks us to lend a part of the land designated for reparations. So we ask for the exemption of land covering the area of 1,111 sq. m. in the Zone A of the accompanying map.

   b) The buildings which Toyama Factory of KokoKu Rayon Pulp Company are to have ferro-concrete sides, where they face to the designated equipments, so that we may keep them safe from fire.

We entreat you to consider the above-stated reasons and exempt the portion of land from the designation for reparations.

P. S. We got the permission from you under the date of Oct. 6, 1949 for pur application for the partial exemption of the land and buildings designated for reparations sent in under the date of Sept. 26, 1949.
See the accompanying copy of the permission and Zone B on the map.

Confirmed by Ichyou Kawaguchi, Tech. Comissioner, Commerce and Industry Sec of Toyama Kencho 8. Sept., 1950

Applicant :

Acting Custodian of Toyama Steam Power Plant, Nippon Hassoden K. K. Ltd.

Tomoyoshi Nishijima

by Y. Yamauchi

APPROVED
E. F. Jouard
E. F. JOUARD DAC
Economics Div. TECOM
DATE 12 Sep. 50

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

COPY

HEADQUARTERS
TOYAMA CIVIL AFFAIRS TEAM
APO 301

004

6 October 1949

SUBJECT: Release of Land Buildings from Reparational Control and Custody

To : Governor, Toyama Ken

1. Ref: Memorandum No 10, Hq Tokai-Hokuriku Civil Affairs Region, Subj: "Release of Land and buildings from Reparational Control and Custody" dtd Aug 30 49 and ref. OD 21 (48) par 2c and OD 21/1 (48) par 2c.

2. Application for the exclusion of land andbuildings from reparational control and custody for five (5) buildings of the Toyama Steam Power Plant Ltd. code # 42-8 is hereby granted.

BY ORDER OF THE CHIEF:

JULIUS A. KNIGHT
Captain, Ord
Economics Officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOYAMA STEAM POWER PLANT

SCALE 1/500

6 NAKAJIMA TO

AUTHORIZED CAPACITY	10.000KW
SITE AREA	45002 78/m²
BOILER (CAP.&NO)	25T/H x 3
TURBINE (CAP.&NO)	2500KWx1 2000KWx1

LAND & BUILDINGS DESIGNATED FOR REPARATIONS

APPLICATION FOR THE PARTIAL EXEMTION OF THE LAND DESIGNATED FOR REPARATIONS

LAND & BUILDING EXEPTED WITH 2ND PERMISSION

LAND & BUILDING EXEPTED WITH 1ST PERMISSION

HOKURIKU JINKEN PULP CO.

BOUNDARY LINE

ELECTO BOILER

ASH YARD 4200m²

HOT WATER TANK

PUMP

WATER TANK

STORE HOUSE

WATER

STEAM ACCUMULATOR 200m³

OFFICE

SWITCH BOARD

MAIN BUILDING AREA 1A 20M

MACHINE SHOP

STORE HOUSE

ANALYSIS ROOM

C/L STORE HOUSE

EMPLOYEES RESIDENCE

CLUB

OUTDOOR STRUCTURE

NO.2 CONVEYER 60T/H

TRANSPORTER 40T/H

COAL YARD 4950 m² CAPACITY 6.000 TONS

NO1 CONVEYER 60T/H

OUTLET

WATCH ROOM

NO.3 CONVEYER 80T/H

GATE

GUARD ROOM

ROAD

22Kv TO OKUDA SUB-STATION HOKURIKU HAIDEN

TO ECCHU NAKAJIMA STATION (FUGAN LINE)

FUGAN CANAL

APPROVED

E. F. Jouard

E. F. Jouard DAC
Economics Div. THCAR
Date 12 Sep. 50
by H. Yamauchi

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

STEAM POWER PLANT

6 NAKAJIMA TOYAMA CITY

AUTHORIZED CAPACITY	10.000KW
SITE AREA	45002 78/m²
BOILER (CAP×NO)	25T/H × 3
TURBINE (CAP×NO)	12500KW×1 2000KW×1

HIGH TIDE	+0.73M
LOW TIDE	-0.12M
G L	±4.56M
MAIN BUILDING LEVEL	+4.86M
NOTE	

0 1000 2000 3000

N

YARD
200m²

(3)

PUMP ROOM

WATER TANK

STORE HOUSE

MACHINE SHOP

STORE HOUSE

ANALYSIS ROOM

OIL STORE HOUSE

EMPLOYEES RESIDENCE

CLUB

RIVER JINTSU

INTAKE PUMP ROOM

OUTLET

COAL YARD
4950 m²
CAPACITY 8.000 TONS
NO2 CONVEYER 80T/H

TRANSPORTER 40T/H

NO.3 CONVEYER 60T/H

WATCH ROOM

NO.1 CONVEYER 80T/H

60T UNLOADER 80T/H

ROAD

TO PORT IWASE

TO ECCHU NAKAJIMA STATION (FUGAN LINE)

FUGAN CANAL

Nakanchi

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOYAMA
GOVERNMENT PREFECTURE

1 Dec. 1949.

TO : Chief of Tokai-Hokuriku Civil Affairs Region.

FROM : Director, Economics Dept. Toyama Ken.

SUBJECT: Occurrance of an Accident at Reparations Plant.

As we were notified by the supervisor of the Toyama Plant of Nippon Power Generation and Transmission Co., Ltd. of the occurrance of an accident which resulted in the partial damage of reparation machine, we hereby report to you as per attached.

Signed
SOCHII KOMATA
Director, Economics Dept.
Toyama Ken.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Date : Nov. 27, 1949

From : Tomoyoshi Nishijima, Custodian of Toyama Power-Generating Plant, Nippon Electric Generation & Transmission Co. Ltd.
No. 6, Nakajima, Toyama City

To : Commander of Tokai-Hokuriku Civil Affairs Corps

Through : Toyama Prefectural Government

Subject : Re Partial Damage of Reparations

The Toyama Power-Generating Plant belonging to the Nippon Electric Generation & Transmission Co. Ltd., which was designated for reparations, was transferred with permission to the company on Sep. 25, 1946, and ever since we have been taking special care of the designated property. But an accident happened and I am sorry I must submit to you the following report concerning the damage done to the property.

1. Name of Designated Plant : Toyama Power-Generating Plant, Nippon Electric Generation & Transmission Co. Ltd. 42---8

2. Locality : No. 6, Nakajima, Toyama City

3. Time of Occurrence of Accident : 7. 25, P.M., Nov. 25, 1949

4. Items of Damage done to Property :
   (1) 1 steam receiver
   (2) 5 meter boards for boiler feed pump
   (3) 5 steel window sashes
   (4) 60 sq. meters of slated part of building
   (5) 150 window-panes

5. Other Injuries : No man injured

6. Cause of Accident :
   The damaged steam receiver is made of cast steel, and, judging by the broken part, we conclude that the receiver could not resist steam pressure because of the inequality of its material quality and thickness, and also its being worn out.
   This steam receiver was made in 1936, and its inside diameter is 600 mm., its thickness 50 mm., its whole length abt. 7 m. It is of a cylindrical horizontal type and divided in the middle into two parts connected by means of bolts. The damage was done to one of the two parts, and nothing is found wrong with the other part, but further examination of its material is considered necessary. By a steam receiver is meant a receptacle into which steam is received from all the boilers and from which steam is distributed to each steam turbine and other places where steam is used.

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7. Condition of Damaged Things :
(1) Along the steam receiver are seen two cracks and it can not be used again. Nothing is amiss with its accessories.
(2) Of the meter boards for boiler feed pump, 1 ammeter, 1 watt-meter, and 3 relays were damaged into an unusable state, but no harm was done to the boards themselves.
(3) The window sashes were distorted by the wind pressure of spurting steam, but they can be restored to use by repair.
(4) The slated part of the building was damaged by the wind pressure.
(5) The window-panes were broken by the wind pressure.

8. Estimated Damage done by Accident :
The total damage is assessed at ¥ 1,800,000.

9. Restoration of Things Damaged :
(1) A new steam receiver was at once ordered and 4 months are estimated to be necessary for restoration. Meanwhile use is being made of another tubing which does not go through the steam receiver, thus the plant being partly operated (that is, supplying steam to the neighboring Toyama Factory of the Kokoku Rayon Pulp Company, but no electric generation).
(2) New meter boards for boiler feed pump were ordered and will be restored in 4 months.
(3) The distorted window sashes can be repaired in 2 days.
(4) For the broken windows new panes have been got and they are being glazed. 2 days for restoration.
(5) For the damaged weather board of the building, galvanized iron will be used as a substitution for slate. 2 days for restoration.

Reported by Custodian of Toyama
Power-Generating Plant, Nippon Electric
Generation & Transmission Co. Ltd.,

Tomoyoshi Nishijima

Tomoyoshi Nishijima

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA CIVIL AFFAIRS TEAM
APO 301

6 October 1949

004

SUBJECT: Release of Land and Buildings from Reparational Control and Custody

TO : Governor, Toyama Ken

1. Ref. Memorandum No 10, Hq Tokai-Hokuriku Civil Affairs Region, Subj: "Release of Land and Buildings from Reparational Control and Custody", dtd Aug 30 49 and ref. OD 21 (48) par 2c and OD 21/1 (48) par 2e.

2. Applicationsfor the exclusion of land and buildings from reparational control and custody for five (5) buildings of the Toyama Steam Power Plant Ltd. code # 42-8 is hereby granted.

BY ORDER OF THE CHIEF:

JULIUS A. KNIGHT
Captain, Ord
Economics Officer

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Date ; 26 September, 1949

Name of Company : Toyama Steam Power Plant, the Japan Electric Generation & Transmission Co. Ltd.

Location : Nakajima 6, Toyama City

To : Commander of Toyama Civil Affairs Team

Subject : Application for Release of Land and Buildings

(I) Name of Plant Designated : Toyama Steam Power Plant, the Japan Electric Generation & Transmission Co. Ltd. 42-8

(2) Location : Nakajima 6, Toyama City

(3) Area of Land & Buildings to be Released from Designation of Reparations

(a) Land : B Zone 4,347 tsubo (I4,370.2 sq. m.)

(b) Buildings :

① Storehouse No. I	35 tsubo	(II5.9 sq. m.)
② Storehouse No. 2	65 tsubo	(2I4.5 sq. m.)
③ Corridor & Latrine	35.59 tsubo	(II7.6 sq. m.)
④ Oil-house	I2.4 tsubo	(4I.0 sq. m.)
⑤ Analysis-house	20.5 tsubo	(69.7 sq. m.)
Total	I68.49 tsubo	(559.0 sq. m.)

(See the Plan of General Arrangement of Toyama Power Plant appended)

(4) Reasons for Application :

(a) Of the whole land area of the Plant, which amounts to I0,5II.I9 tsubo (34,747.7 sq. m.), the D Zone, which covers an area of 6,I64.I9 tsubo (20,377.4 sq. m.), is indispensable for keeping the reparations integrate.

(b) The B Zone, which has an area of 4,347 tsubo (I4,370.2 sq. m.) is not directly necessary for the integration of the reparations, excepting the designated Zone C, covering an area of 42 tsubo (I39.7 sq. m.).

(c) Of the Plant buildings, the Storehouse No. I and 4 others which we ask you to release do not house any designated things or arrangements.
Reference : the land and buildings on the A Zone of the plan were released by the Commander of the 8th Army on Sep. I7, I948 (See the copy of Approval of Application appended).

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(d) If the above-mentioned land and buildings are released we can reduce the number of the guards and the expenditure, and so we can make the guarding the more thorough without any alteration in our work of preserving the integrity of the reparations.

We wish you to consider the reasons above and approve our application for release of the land and buildings.

Applicant : Tomoyoshi Nishijima,
Custodian of Toyama Steam Power Plant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

602

17 September 1948

SUBJECT: Approval of Application for Release of Land and Buildings

THRU: Toyama Liaison Office

TO : Nippon Hassoden, Toyama Plant

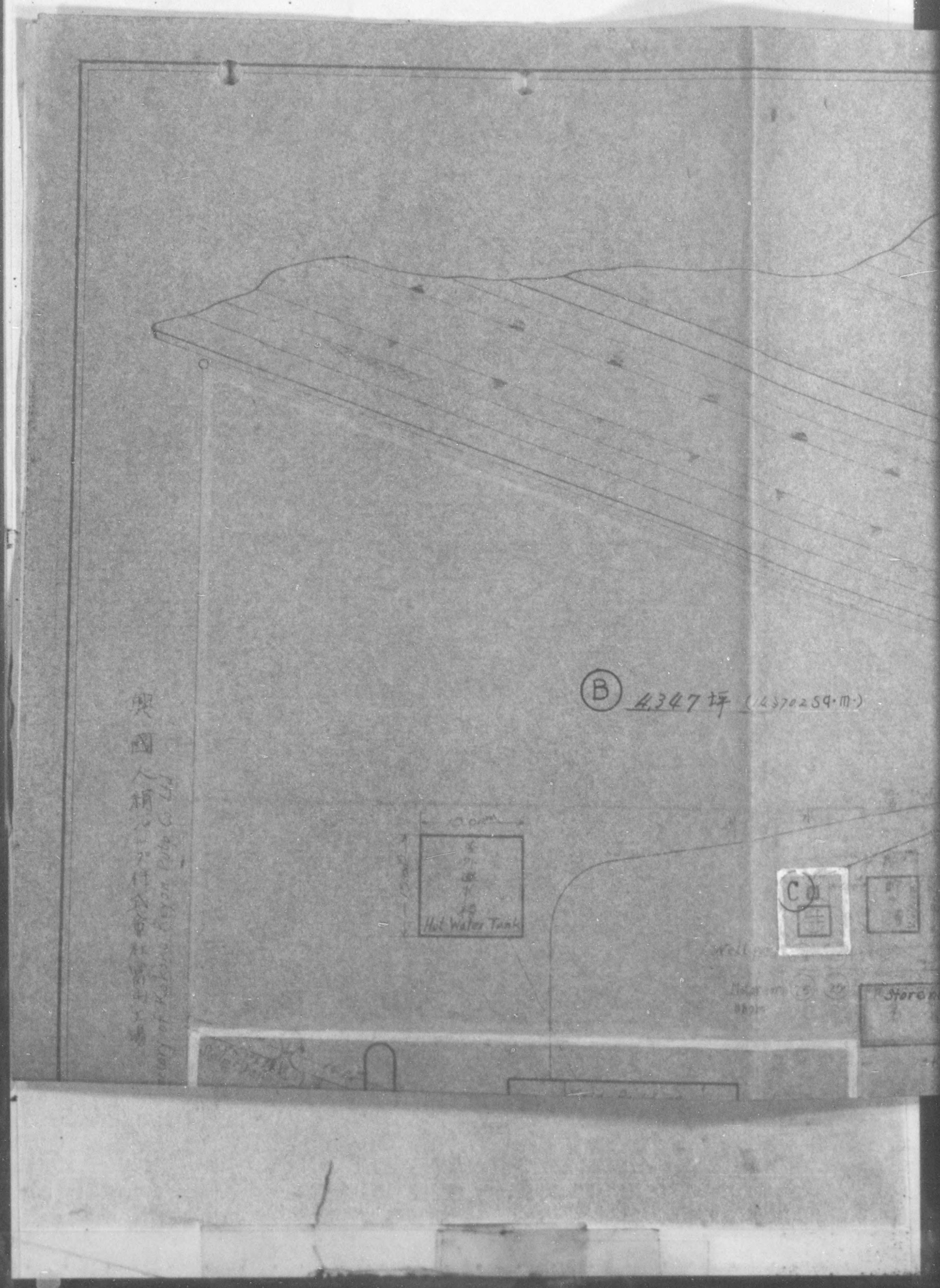
1. Application for release of land and buildings submitted to this headquarters on 27 August 1948 has been approved by 2nd indorsement by Commanding General, I Corps.

2. The release of this land and buildings will be accomplished through the Kensetsu In.

BY ORDER OF LIEUTENANT COLONEL HICKMAN:

OVID E. SCOTT
Major, FA
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

(B) 4,347 坪 (14370.59㎡)

42 坪 (139.79㎡)

Storehouse

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Pl

(sq.m.)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Plan of General Arrangement of T

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Plan of General Arrangement of T

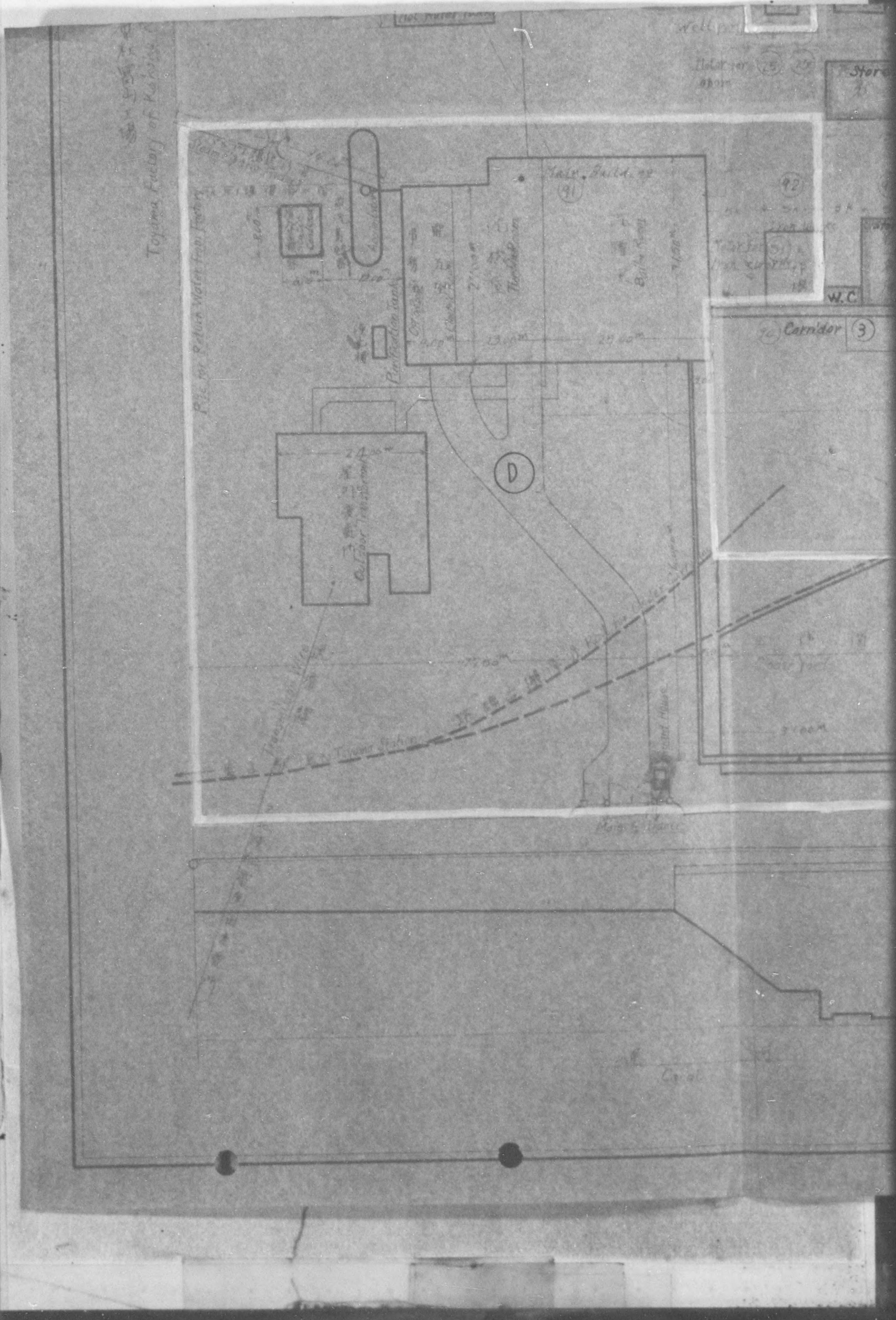
DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

General Arrangement of Toyama Power Plant

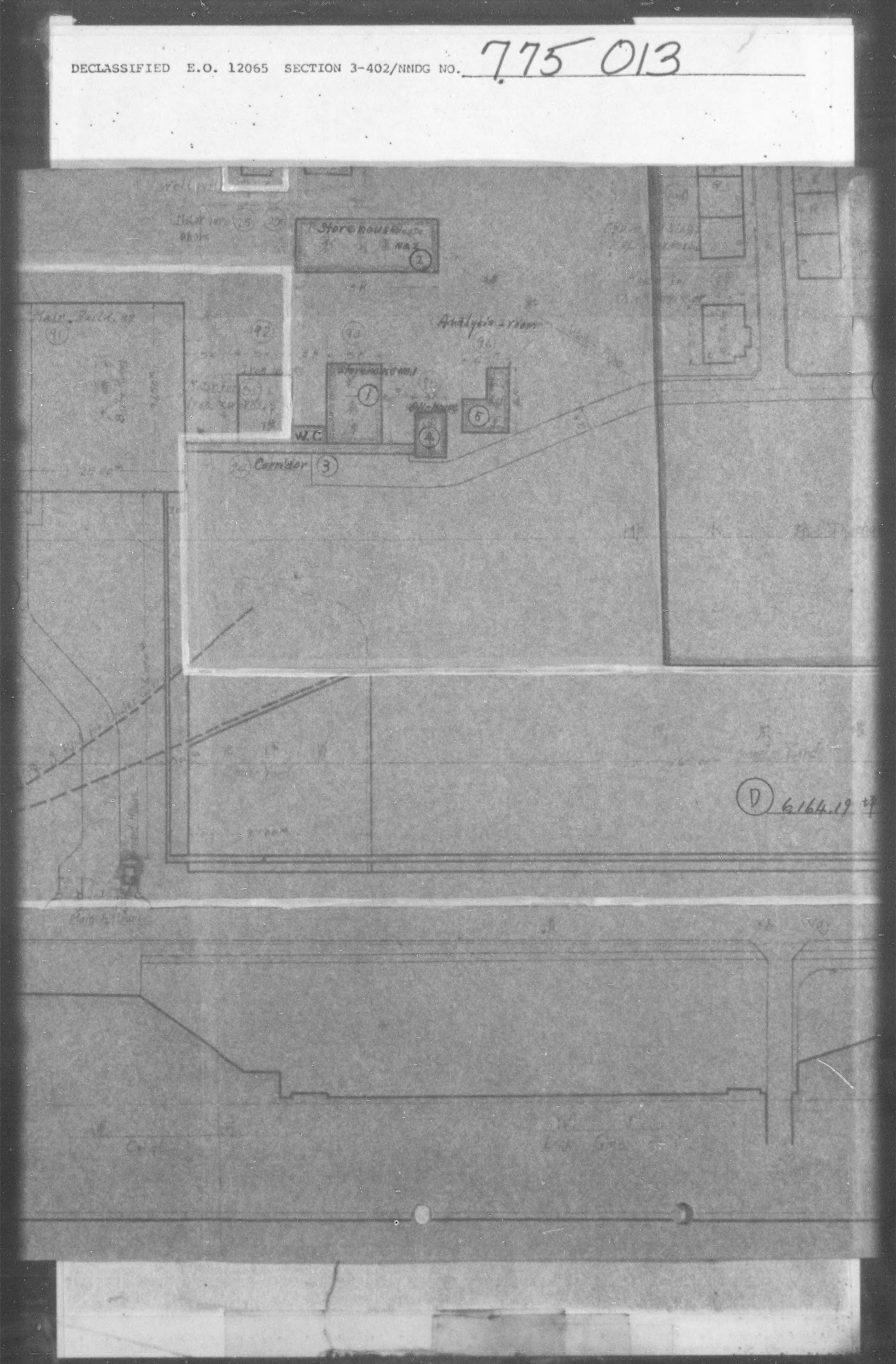
Scale 1/600

日本発送電株式會社
富山発電所一般平面圖

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013


Main Building
91
92
W.C
Corridor
3
D
Toyohira Filter Basin
Pipe for Return Water from Factory
Purification tank
Clear Water Reservoir
Main Pipe
Main Pipe
Main Pipe

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



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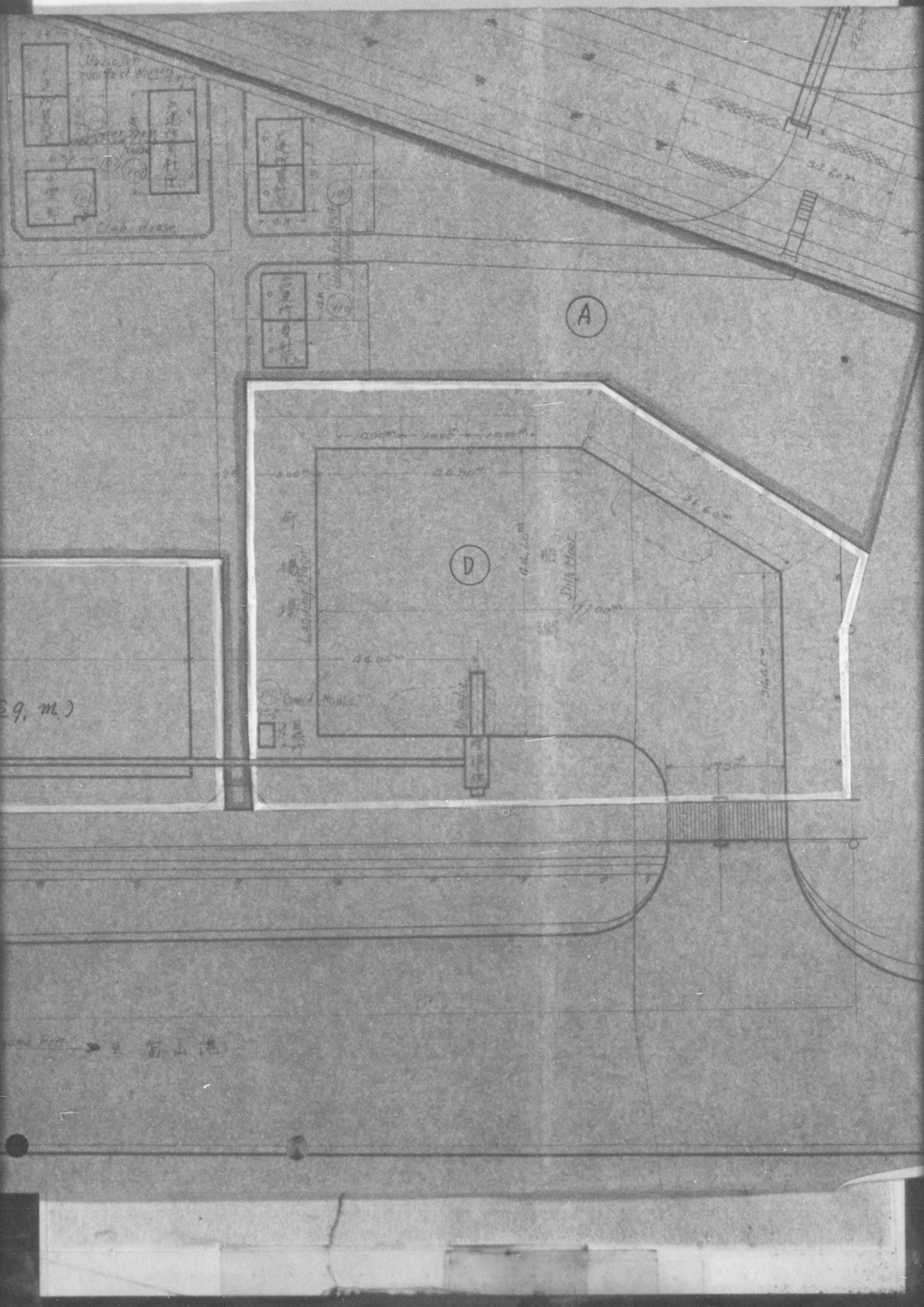

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

縮尺 六百分一

(B) 除外申請土地
Land to be Released

除外申請建物
Buildings to be Released

(A) 除外申請許可濟
Area Released

(D) 賠償指定敷地
Designated Area

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Inspector(s)

REBARATION INSPECTION CHECK SHEET

DATE ~~15~~ 11th, March, 1949.

1. Plant Code# 42-8 Prefectur Toyama.

2. Name Nippon Hassoden K.K. Toyama Steam Power Plant.

   Town 6, Nakajima, Toyama City.

3. Category of Plant Steam Electric Power Plant.

   Established 1st. Oct. 1938.

4. Made:

   Pre-war Electric-power, ~~of~~ Steam During War Electric-power, ~~of~~ Steam Now Steam

5. Employed:

   Pre-war 35 During War 35 Now 52.

6. Equipment (Machine tool) Classification:

   Total 178 #1 #2 #3 Avg. Age % 10.5

   % Foreign Made None % Est. Desirable to Claimant

7. Equipment now in operation. Total 95 Its Maintenance?

   Equipment now in "Authorized Use". Total 83 % in operation 178

   Equipment reported in "Authorized Use", now not in "Authorized Use". Total 83 (List inventory numbers on back.)

8. Classification deemed satisfactory/unsatisfactory?

9. Reclassification deemed essential/not essential?

10. Inventory complete? Not made. Items not inventoried? Partially Marking.

11. Overall maintenance: Excellent/Good/Fair/poor

12. Reconditioning in progress? To be completed by 1948

    34 employees, 25 of them skilled mechanics, engaged in maintenance and reconditioning of equipment.

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13. General appearance of plant/storage and equipment: _____

14. General impression of management/custodian: _____

15. Estimated removability of equipment(by value) 90 %, of buildings 10 %.

16. Engineers available who installed equipment originaggy? None

17. Plant's experience in dismantling None, in preparation (Packaging)for shipment None. in re-assembly at destination None.

18. Time required for dismantling & Packing 7 monthes FOR re-assembly 14 monthes.

19. Recommended port for shipment Fushiki Mode of transp. to port Rail-way on RY. spur is RY to port pier is

20. Is plant well guarded? ____Has plant been evaluated by JC? Do

21. Petition on file for removal from reparations lists? Presented.

22. Is plant/typical? _____ Remarks: ____ _____

_____

23. Estimated weight and dimensions of largest package after dismantling and crating Condenger 38Ton 3mx4mx6.9m

24. How many buildings comprise this plant? 9 How many include reparations equipment? ____How many contain immediately available reparations equipment? _____

25. What functional subdividions are included in the plant in which buildings are they located? See Plant General Arrangement.

26. Is a clear plant layout with adequate identification and description of all functional subdivisions available in Reparations (If more than one functional subdivision)? ___(If not, obtain one).

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If a plant evaluation report is available in Reparations, does its buildings identifications agree with plant lavout?_____

27. Is plant large, medium, or small in comparison to other plants of similar type?_____If large or medium what possible breakdown or grouping of subordinate units into 2 or 3 all cation units appeas most logical?_____ _____

28. If major portions of the plant are less useful or less desirable than than other portions, specify the power sections(and building locations.)_____

29. If this plant is a dispersal area or is very small, could it be allocated with another nearby plant or dispersal area?____If so, what one(s)?_____

30. Does the equipment in authorized use dastory the balance or impair the usefulness or available uipment?_____If so, how?_____

_____

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TOYAMA
LIAISON OFFICE

24, Dec. 1948

TO : Commanding General of the Eighth Army

THROUGH: Toyama Military Government Team

FROM : Governor of Toyama Ken

SUBJECT: Application for Partial Use of Machine designated as reparations.

It is request to give Tomoyoshi Nishijima, Chief of Japan Power Generation and Transmission Co.,Ltd. of Toyama a permission to use a part of machine designated as reparations.

1. Name of machine
   Pump for condenser circulating water (280 Hp) 1 set
   Water pipe About 200 meters
2. Term of use
   up to Dec. 20, 1949
3. Reason

A. The plant has been using one cooler.
It must be certain to wear the cooler in future as far as alone is repeatedly used.
So it is desired to give a permission to utilize what we have now applied to you to coap with the deterioration of our presently used cooler and to attain the complete maintenance of reparation designated machines.

B. Kokoku rayon pulp Toyama plant wishs to use the said cooler owned by our plant as the utilization of it is a indespensable requirement for the production of rayon which can be only produced by this plant and is one of the most important of that kinds.
This plant is now considering a new project to construct a pool for cooling of pulp and is hoping to have a permission from you to utilize said cooler until such new project is completed.

Signed T. Takatsuji
TAKEUTI TAKATSUJI
Governor of Toyama Ken.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Petition

Date: December 20, 1948.

Name of Applicant:

Toyama Steam Power Plant,
Hokuriku Branch of the
Japan Electric Generation
and Transmission Co.,Ltd.

Location: 6 Nakajima, Toyama City.

To: The Commander of the 8th Army.

Thru: The Commanding Officer of Toyama Military Government Team.

Toyama Prefectural Governor.

Subject: Use of a part of the equipment of Toyama Steam Electric Power Generating Plant designated as controlled plant.

Toyama Mill of the Kokoku Rayon Pulp Co.,Ltd. which is located adjacent to our plant, has recently carried out its repair work for improvement of the quality of pulp except the water equipment, and pending its completion of the entire repairs, the use of our water equipment is requested.

In view of its urgent requirement, we wish to request your kind permission for use of the undermentioned equipment.

1. Name of the designated plant:

   Toyama Steam Power Plant, Hokuriku Branch of the Japan Electric Generation and Transmission Co.,Ltd.

2. Address of the designated plant:

   6 Nakajima, Toyama City.

3. Name of the user:

   Toyama Mill of the Kokoku Rayon Pulp Co.,Ltd.

4. Address of the user:

   16 Nakajima, Toyama City.

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5. Name of product produced by user:

Rayon Pulp, Paper Pulp, Wrapping Paper, and Chemicals etc.,

6. Experience to produce above mentioned materials:

Has been in operation since 1938.

7. Duration of the permission for use:

From 21st December, 1948 to 20th December, 1950.

8. Equipments for which permission is requested:

1 set of 280 H.P.,Pump for condenser circulating water.

(Remarks: Code No. Aux., 1.)

About 200 meters of Water pipe.

Toyama Steam Power Plant,
Hokuriku Branch of the
Japan Electric Generation
and Transmission Co.,Ltd.

Tomoyoshi Nishijima

Tomoyoshi Nishijima,
Custodian of
Toyama Plant.

27 Dec 48

approved

GGZ. TSP.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Economics

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

JJL/sn

602

1 September 1948

SUBJECT: Release of Land and Buildings from Reparational Control and Custody

THRU : Commanding Officer
Tokai-Hokuriku Military Government Region
APO 719

TO : Commanding General
I Corps
APO 301
ATTN: Military Government Section

1. The Nippon Hassoden Co., Toyama Plant was placed under reparational custody and control by SCAPIN 1131, dated 13 August 1946, and was subsequently given code number 42-8.

2. The buildings the Nippon Hassoden are requesting release from reparational control and custody (attached application) are not housing or protecting any reparation machines or equipment. Therefore under provisions of paragraph 2e, CD 21, Hq Eighth Army, dated 30 March 1948 this headquarters recommends approval of release of the subject buildings.

3. The subject land and buildings are not classed as an enemy installation.

FOR THE COMMANDING OFFICER:

Incls
Three (3) copies of
application for release
of land and buildings
(Nippon Hassoden)

OVID E. SCOTT
Major, FA
Adjutant

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Nippon Kasoden

(1) -21

THERMAL ELECTRIC POWER PLANTS

These plants were taken into custody and inventoried in accordance with War Department radio from the Joint Chiefs of Staff to Supreme Commander for the Allied Powers, dated 16 Jnue 1946.

This catalog contains data for the following plants:

Name of Plant	Authorized Capacity KW	Percent of estimated total for industry
Ajikawa	16,000	.8
Ebetsu	37,500	1.9
Kizugawa	63,000	3.2
Matsue	14,000	.7
Meiko	138,000	6.9
Miyazu	13,000	.7
Saijo	32,000	1.6
Shimizu	20,000	.1
Tokushima	10,000	.5
Toyama	10,000	.5
Ube-nishi	14,000	.7
**Tsurumi	178,500	9.0

Thermal electric power plants listed in this catalog are a part of the public utility system and use coal as the source of power. This list does not however any ele ctric generating plants using water or internal combustion engines as a source of power. Neither does it include thermal electric power plants known as "CAPTIVE" which are a part of a private manufacturing concern located either within or adjacent to the factory or in

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

its near vicinity.

This catalog presents significant data on the thermal electric power plants that have been made available for interim reparations claim. Data presented for individual plants are designed to supply engineers of the several claimant nations with general information which will serve as a guide in the preliminary selection of plants considered as suitable for reparations claims. Conversely it will serve as a basis for the elimination of plants that are of no interest.

It is believed that this catalog will effect economies in the expenses of the several slaimant nations by reducing both the number of plants to be visited and the number of engineers required for examination of plants of probable interest.

The information presented combines statistical data supplied by the Imperial Japanese Government, and engineering data collected by officers assigned to General Headquarters, Supreme Commander for the Allied Powers. Every reasonable precaution has been taken to assure substantial accuracy.

Small items of equipment, such as motors under 50 HP, have been omitted from the data presented even though in the aggregate the total amount of such equipment is of considerable magnitude. They are, however, to be considered as a part of the plant.

Items of equipment listed under Auxiliary Equipment are integrated parts of the equipment to which they refer and are not to be considered as additions to it; i.e., motors shown with the notation "ball mill pulverizers" following the size description are a part of the stoker and puverizing equipment and not

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spare or additional motors.

Plant data are arranged by size of plant based on authorized capacity, beginning with the largest plant.

Transformers and switching equipment, both indoor and outdoor, which has been listed as plant equipment may be exempted from removal at the discretion of Supreme Commander for the Allied Powers in order to maintain operation of the Japanese electric power transmission and distribution system.

Additional authorized plant capacity of approximately 825,000 KW will be available for interim reparations as a supplement to this list.

Equipment listed that is not a part of plant equipment or that is the property of separate distribution companies is not available for reparations.

A definition of the terms and abbreviations used follow the data for the last plant included in this catalog.

** This plant is capable of division into two substantially equal parts.

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THERMAL ELECTRIC POWER PLANTS

Authorized Capacity: This is the continuous rating of the plant.

Actual Capacity: The net power that can be generated after station power has been deducted under the following conditions:

a. If there are ten or less boilers one is considered a spare.

b. If there are more than ten boilers two are considered as spares.

c. If there is more than one steam pressure one boiler for each steam pressure is considered as a spare.

LIST OF ABBREVIATIONS

MANUFACTURERS

A.E.G. - Allgemeine Electricitaets Gesellschaft
B.B.C. - Brown Boveri & Co.
B & W - Babcock & Wilcox, Ltd.
E.E. - English Electric Co.
G.E. - General Electric Co.
H. - Hitachi Mfg. Co.
I or I.S. - Ishikawajima-Shibaura Turbine Co. Ltd.
M. - Mitsubishi Electric Machine Co.
M.D. - Meidensha
M.K. - Mitsubishi Electric Machine Co., Kobe Works
M.V. - Metropolitan-Vickers Electrical Co. Ltd.
S.E.W. - Tokyo-Shibaura Electric Co., Ltd.
S.S. - Siemens-Schuckertwerke A.G.
W.H. - Westinghouse Electric & Mfg. Co.

TECHNICAL TERMS

Amp - Amperes
Co. - Centigrade
Cal - Calories
C.G. - Chain grate stoker
Cm2 - Square centimeters
Combus - Combustion
Econ - Economizer
Evap - Evaparation
Freq - Frequency in cycles
Imp - Impulse
Kg - Kilograms
KV - Kilovolts

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

KVA - Kilovolt Amperes
KW - Kilowatts
Ljung - Ljungstroom
Mfg - Manufacturer
MG - Motor generator
MT/Hr - Metric tons per hour
P.F. - Pulverized fuel
Press - Pressure
Reac - Reaction
RPM - Revolutions per minute
Sect - Sectional
Temp - Temperature
U,F. - Underfed stoker
Vert - Vertical

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

LOC. IV-A-37

No. 52001-111

Name of Steam Electric Station
TOYAMA

Address
Toyama-shi, Nakajima 6

Authorized Capacity
10,000 KW

Actual Capacity, August 1946
8,000 KW

GENERAL

This plant was constructed for the company that now owns the adjoining rayon plant. Power generated since 1940 has been a by-product of process steam. It will require 75 days to put the equipment in this plant in first class operating condition.

1. Steam Turbine Specifications.

Type	No.of Units	Capacity KW	Press Kg/Cm^2	Temp C°	RPM	Mfg	Year Mfg
Imp	1	12,500	30	410	3,600	H	1937
Imp	1	2,000	30	410	3,600	H	1937

No. 1 is bled on the 1st and 2nd stages. No. 2 exhausts at a back pressure of 5 Kg/Cm^2.

Total Hours in Service

Period	No. 1 12,500 KW	No. 2 2,000 KW
1938-45	7,619	17,871

2. Generator Specifications.

Capacity KVA	No.of Units	Power Factor	Voltage	Freq	RPM	Mfg	Year Mfg
15,625	1	0.8	11 KV Y	60	3,600	H	1937
2,500	1	0.8	3.3 KV Y	60	3,600	H	1937

Same hours in service as turbines.

3. Boiler Specifications.

Type	No.of Units	Evap MT/Hr	Press Kg/Cm^2	Temp C°	Heating Surface M^2 Boiler	Super Heater	Econ	Pre-Heater	Com bus	Mfg	Year Mfg
Vert	3	25	32	435	620	185	337	691	C.G.	H	1937

Total Hours in Service

Period	No. 1	No. 2	No. 3
1938-45	23,087	25,586	26,407

With one boiler as a spare the capacity is 8,000 KW. The boilers were designed for coal with a heat value of 5,800 Cal/Kg. With present coal (5,700 Cal/Kg.) and No. 2 turbine not operating the thermal efficiency is 4,800 calories per KWH.

4. Coal Handling Equipment, 6 MT/Hr.

a. Cantilever crane.
b. Horizontal conveyor, 209 M long.
c. Inclined conveyor, 60 M long.

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5. Stoker Equipment.

   a. Three chain grate stokers, one for each boiler.

6. Outdoor Switchyard.

   a. Main power transformers.
      (1) Four - 69, 66, 63 KV/23, 22, 21 KV/12.5 KV, 5,200 KVA, single phase, 60 cycle, self cooled.
      (2) Four - 22, 21, 20, 19, 18 KV/3.45 KV, 2,000 KVA, single phase, 60 cycle, self cooled.

   b. Oil circuit breakers.
      (1) Three - 22 KV, 600 Amp.
      (2) Two - 22 KV, 400 Amp.

7. Switch Board Room.

   a. Nine panels.

8. Auxiliary Equipment.

   a. Motors, 3.3 KV, 3 phase.
      (1) Two - 280 HP condenser circulating water pumps.
      (2) Two - 140 HP, feed water pumps.
      (3) Three - 125 HP, induced draft fans.
      (4) Three - 75 HP, forced draft fans.

   b. House transformers.
      (1) Four - 22, 21, 20, 19, 18 KV/3.45 KV, 850 KVA, single phase, 60 cycle, self cooled.
      (2) Four - 3.45, 3.3, 3.15, 3.0, 2.85 KV/220, 110 volts, 200 KVA, single phase, self cooled.

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BASIC: Ltr, Hq Toyama Mil Govt Team, subj: "Release of Land Buildings from Reparational Control and Custody", dtd 1 Sept 48 , cont'd

3. In the event that this is an enemy installation, the release must be accomplished in accordance with the provisions of paragrsph 4, Operational Directive No.25 for 1948, Headquarters Eighth Army, dated 9 April 1948.

BY COMMAND OF MAJOR GENERAL SWING:

1 Incl:
n/c

WILLIAM A. FRANKS
Capt, AGD
Ass't Adjutant General

AG 602 3rd Ind KBB/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 13 Sept 48

TO: Commanding Officer, Toyama Mil Govt Team, APO 301

For compliance with 2nd indorsement.

BY ORDER OF COLONEL DUMONT:

MARION S. BELL
Capt, Inf
Adjutant

1 Incl:
n/c

TOYAMA MG
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DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

HEADQUARTERS
TOYAMA MILITARY GOVERNMENT TEAM
APO 301

JJL/sn

602

1 September 1948

SEP 10 1948

SUBJECT: Release of Land and Buildings from Reparational Control and Custody

THRU : Commanding Officer
Tokai-Hokuriku Military Government Region
APO 710

TO : Commanding General
I Corps
APO 301
ATTN: Military Government Section

1. The Nippon Hassoden Co., Toyama Plant was placed under reparational custody and control by SCAPIN 1131, dated 13 August 1946, and was subsequently given code number 42-8.

2. The buildings the Nippon Hassoden are requesting release from reparational control and custody (attached application) are not housing or protecting any reparation machines or equipment. Therefore under provisions of paragraph 2e, OD 21, Hq Eighth Army, dated 30 March 1948 this headquarters recommends approval of release of the subject buildings.

3. The subject land and buildings are not classed as an enemy installation.

FOR THE COMMANDING OFFICER:

OVID E. SCOTT
Major, FA
Adjutant

Incls
Three (3) copies of
application for release
of land and buildings
(Nippon Hassoden)

176

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

BASIC: Ltr, Hq Toyama Mil Govt Team, APO 301, dtd 1 Sept 48,
Subj: "Release of Land and Buildings from Reparational Control and Custody."

AG 602 1st Ind KBB/ss

Hq Tokai-Hokuriku Mil Govt Region, APO 710, 7 Sept 48

TO: Commanding General, I Corps, APO 301
ATTN: Mil Govt Section

Recommend approval.

FOR THE COMMANDING OFFICER:

Marion S Bell
MARION S. BELL
Capt, Inf
Adjutant

1 Incl:
n/c

AG 602 - BA 2nd Ind SEP 10 1948 ABH/yy

Hq I Corps, APO 301,

TO: CO, Tokai-Hokuriku Mil Govt Region, APO 710

1. Reference is made to paragraph 2(e) of Operational Directive No. 21, Headquarters Eighth Army, dated 30 March 1948.

2. The land and buildings of the Nippon Hassoden Co., Toyama Plant (42-8) which are not required for the custody and control of reparetions equipment, may be released through the Construction Board (Kensetsu-In), provided that this is not an enemy installation as defined in Operational Directive 25 for 1948, Headquarters Eighth Army, dated 9 April 1948.

94578

8 SEP 1948

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

TOYAMA
LIAISON OFFICE

27 Aug. 1948

TO : Commanding General of 8th Army

THROUGH: Commanding Officer of Toyama Military Government Team

FROM : Acting Governor of Toyama Ken.

SUBJECT: Application for Exemption from Reparation Designation.

We wish you to exempt the following plant from reparation designation as the written application has already been submitted to you by Yorei Nishijima responsible for custody and maintenance of the plant.

1. Name of plant designated as reparation.
   Toyama Power Plant, Nippon Power Generation and Transmission Co.,Ltd.
2. Location.
   No.6 Nakajima,Toyama City

3. Name and area of the building.
   A. Land
      1. Area of company's house
         1,701 tsubo (5,621.8 sqm.)
      2. Area of field adjoing the house
         2,162 tsubo (7,145.4 sqm.)
   B. Building

President's house		31.8 tsubo	(105.1 sqm.)
No.1 Residence	tolal	84 tsubo	(277.6 sqm.
No.2 Residence	total	89 tsubo	(294.1 sqm.
No.3 Residence	total	89 tsubo	(294.1 sqm.
No.4 Residence	total	51 tsubo	(168.5 sqm.
No.5 Residence	total	51 tsubo	(168.5 sqm.
No.6 Residence	total	42 tsubo	(138.8 sqm.
No.7 Residence	total	42 tsubo	(138.8 sqm.
Common Bath House	total	15 tsubo	(49.5 sqm.
Club House		53.8 tsubo	(177.8 sqm.)

4. Reason.
   The said facilities were all designated as reparations in compliance with SCAPIN 1,131 Aug.13,1946. But of the total area, "A" area as drafted in the attached map is only fallen under the category of maintenance and custody and "B" area where company's house, bath-house and club are located has not contained any reparation

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designated machine and is a field which has not contained any designated facilities. The circumstances is such that, so we consider that the action to be taken to exempt from reparation designation will not cause any harmful influence upon you but will bring favourable results such as strengthening the guard of the facilities.

Signed T. Takatsuji

TAKEUJI TAKATSUJI
Vice Governor,
The Acting Governor
of Toyama Ken.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Date : Aug. 10, 1948

Name of Company : Toyama Steam Power Plant, the Japan Electric Generation & Transmission Co. Ltd.

Location : Nakajima 6. Toyama City.

To : The Commander of the 8th Army.

Thru : The Governor of Toyama Prefecture.

Subject : Application for exemption of lands and houses from reparations designated.

(1) Name of plant designated :
Toyama Steam Power Plant, the Japan Electric Generation and Transmission Co. Ltd.

(2) Location : Nakajima 6, Toyama City.

(3) Areas of lands and houses wanted to be exempted from designation of reparations

(A) Lands fo plant :

B zone-----Sites for employees' residences-------1,701 tsubo (5631.8 sq.m.)

C zone-----Farmlands arrached to employees' residences -----2,162 tsubo (7145.4 sq.m.)

(See the chart)

(B) Houses :

Residence of Superintendent of the plant-----total 31.8 tsubo (105.1 sq.m.)

No.1 Residence-----total 84 tsubo (277.6 sq.m.)

No.2 Residence-----total 89 tsubo (294.1 sq.m.)

No.3 Residence-----total 89 tsubo (294.1 sq.m.)

No.4 Residence-----total 51 tsubo (168.5 sq.m.)

No.5 Residence-----total 51 tsubo (168.5 sq.m.)

No.6 Residence-----total 42 tsubo (138.8 sq.m.)

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No.7 Residence-----total 42 tsubo (138.8 sq.m.)

Common Bath House---total 15 tsubo (49.5 sq.m.)

Club House ------- 53.8 tsubo (177.8 sq.m.)

(See the chart)

(4) Reasons of application :

(A) 10,511.19 tsubo (34,739.4 sq.m.) of A zone of the land of plant, total 14,374,19 tsubo, is necessary to fulfill the custodial duty of reparations installations.

(B) B and C zones (total area 3,863 tsubo (12,767.2 sq.m.)) are desired to be exempted, thaugh they have no direct relations with the custodial duty.

(C) Ten houses of employees' residences, the common bath house and the club house are also desired to be exempted like B and C zones of the land.

Tomeyoshi Nishijima,

Custodian of Toyama Steam

Power Plant.

Tomeyoshi Nishijima

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Plan of

Hachi River

1. House for Staff

2. House for Staff

3. House for Staff

4. House for Soldiers of Workers

5. Club House

6.

A. Tsubo

B. Tsubo

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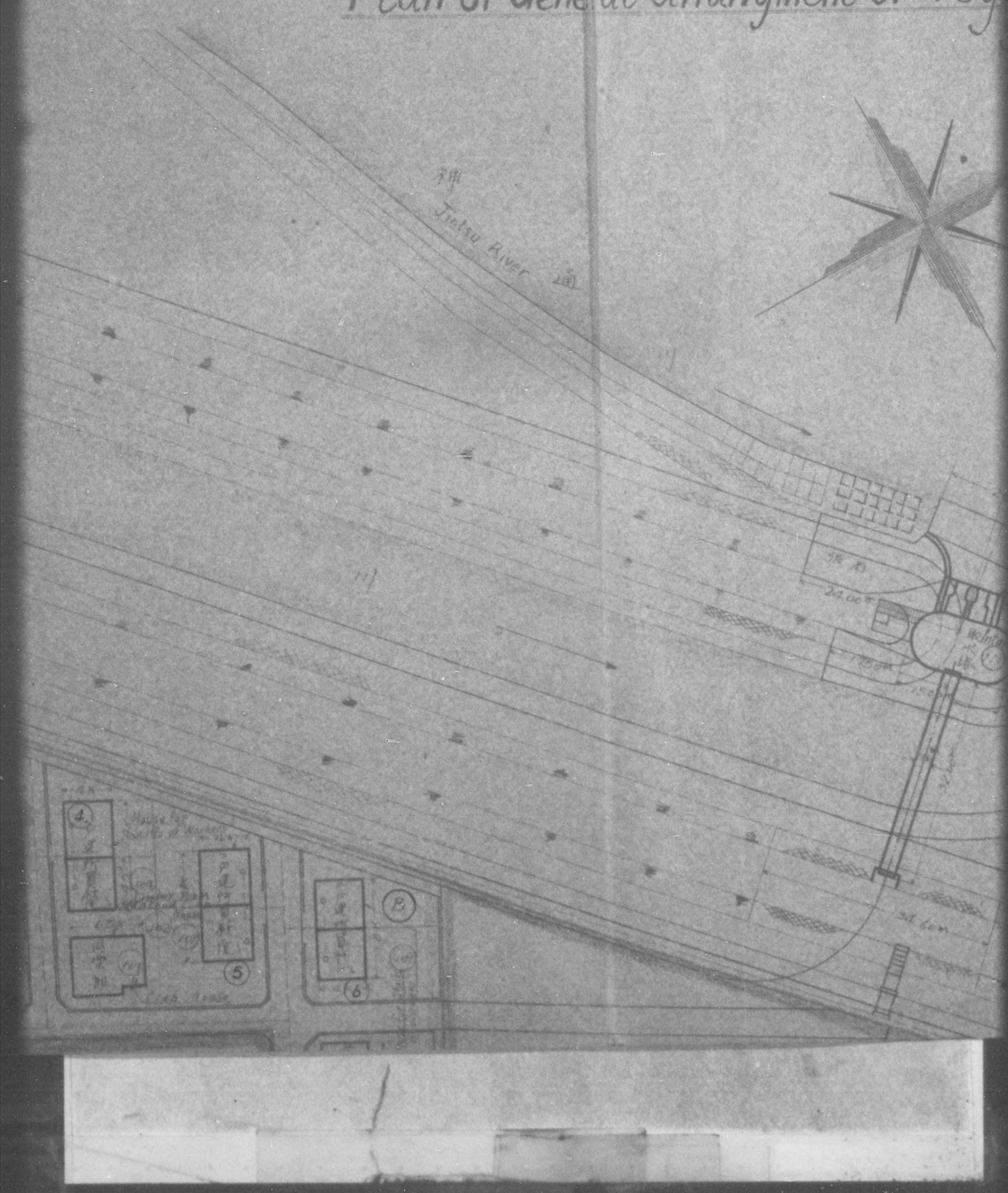
Plan of General Arrangment of Toy



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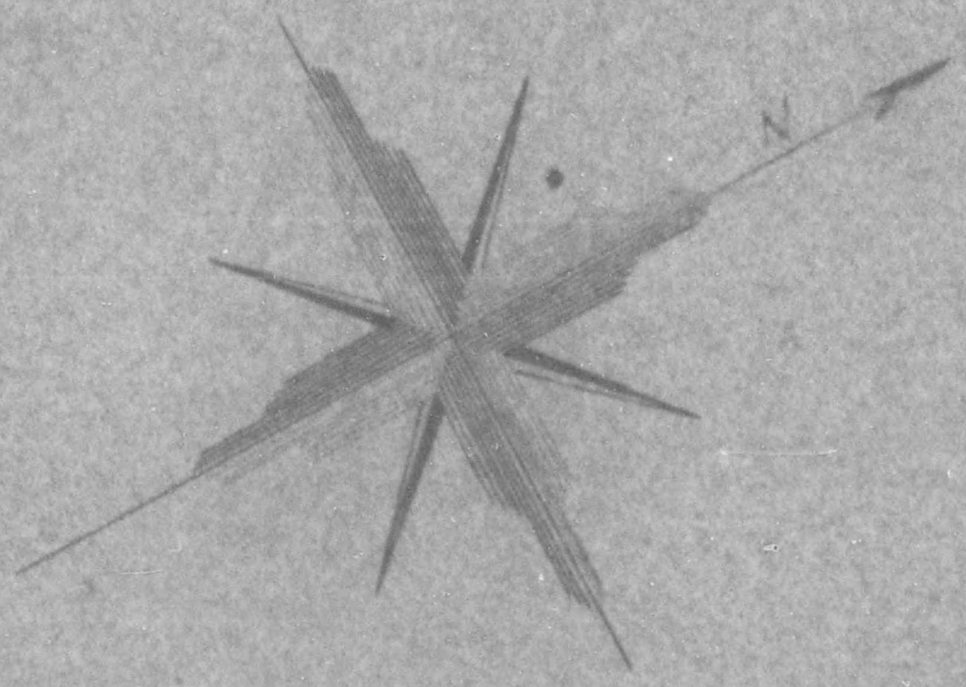
General Arrangment of Toyama Power Plant

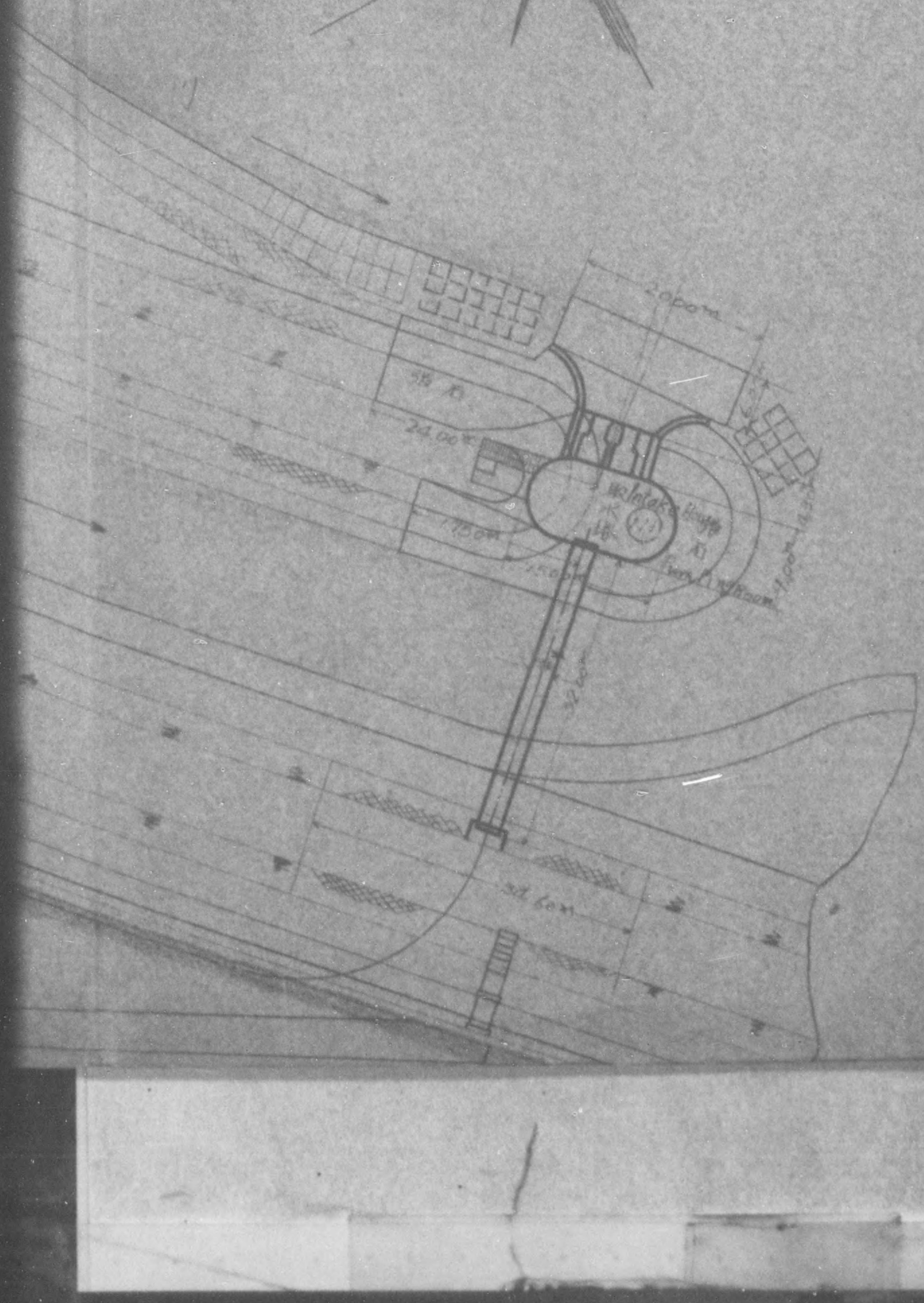
Scale 1/600

日本発送電株式會社

富山発電所

一般平面圖





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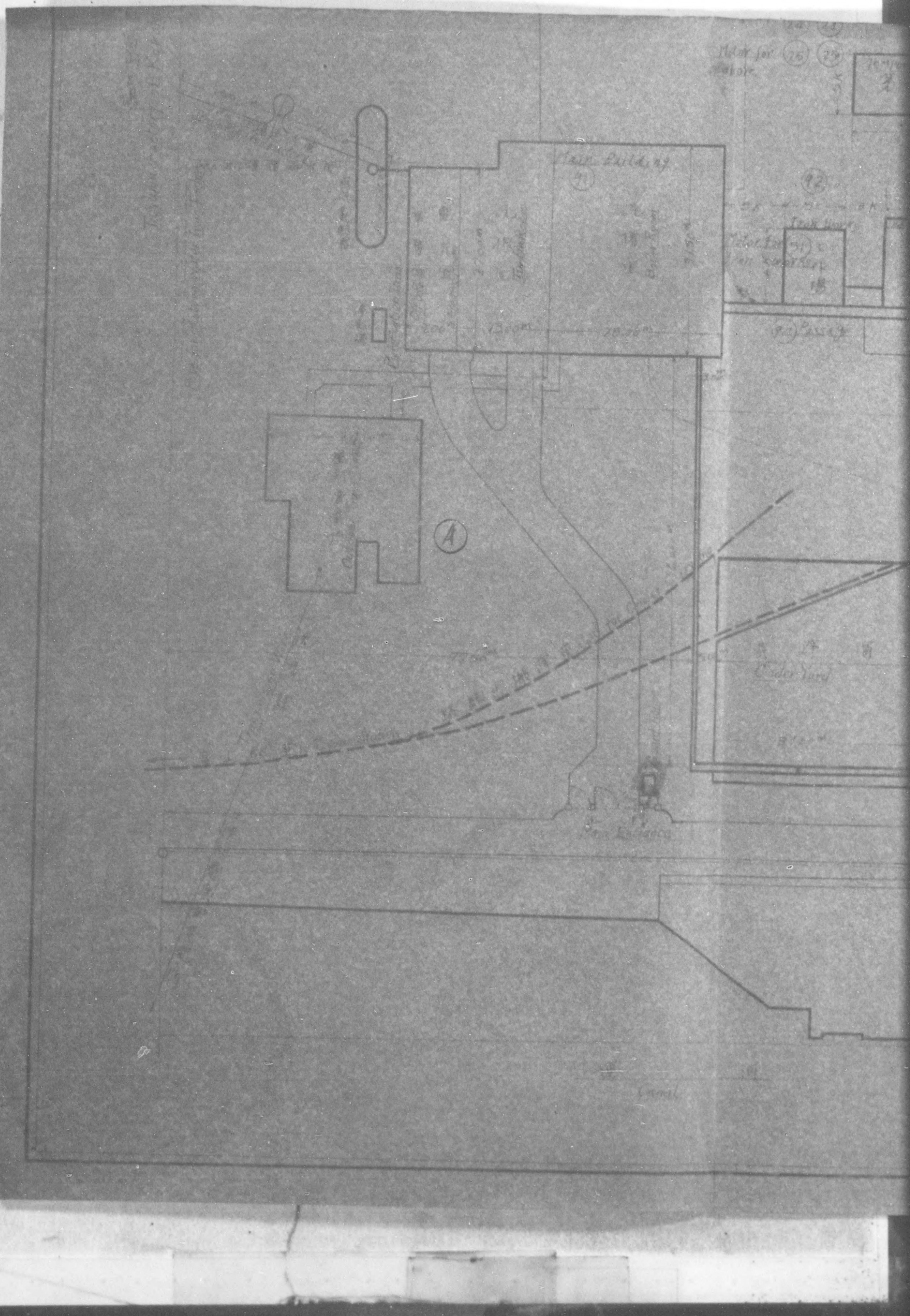

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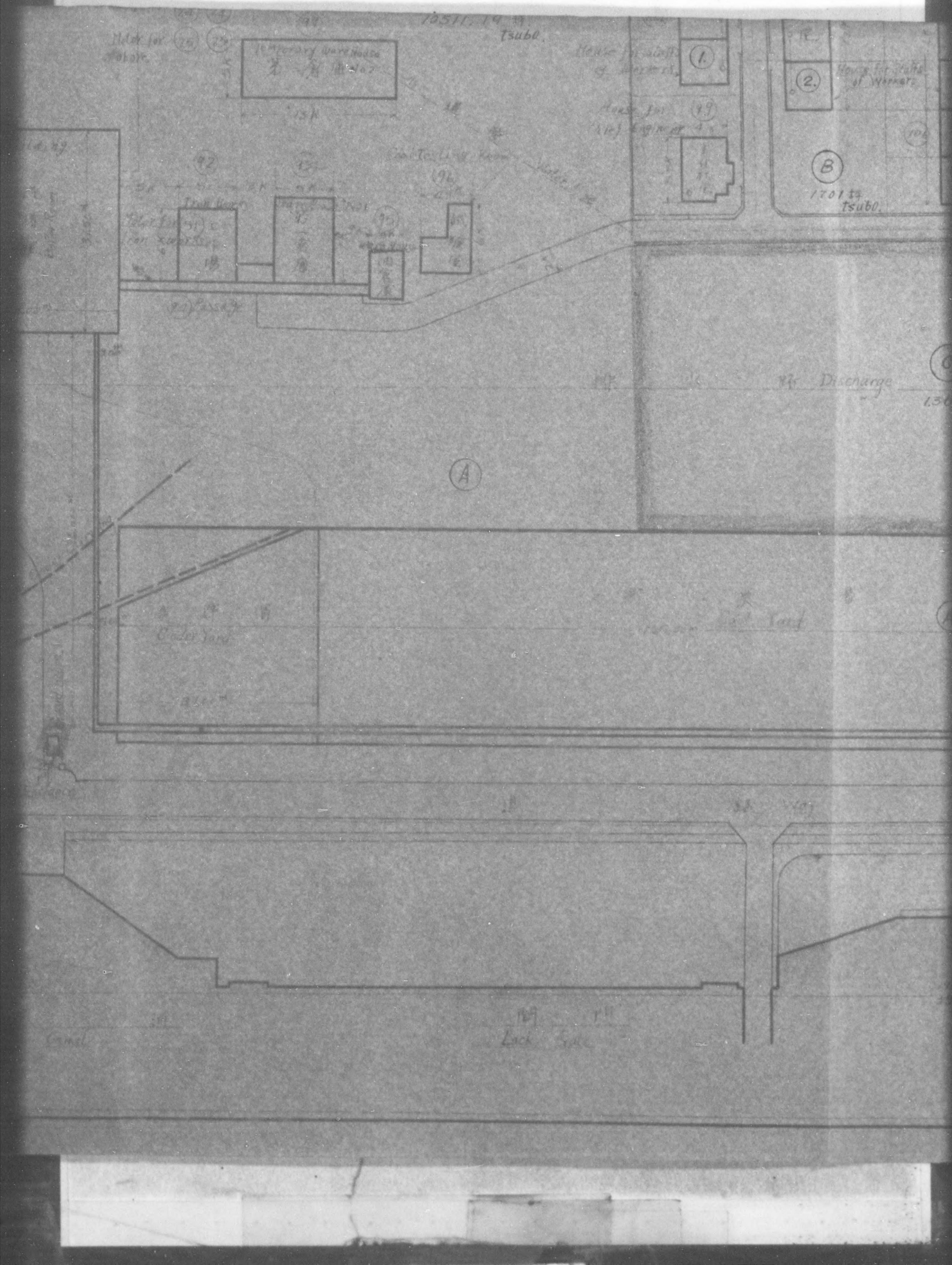

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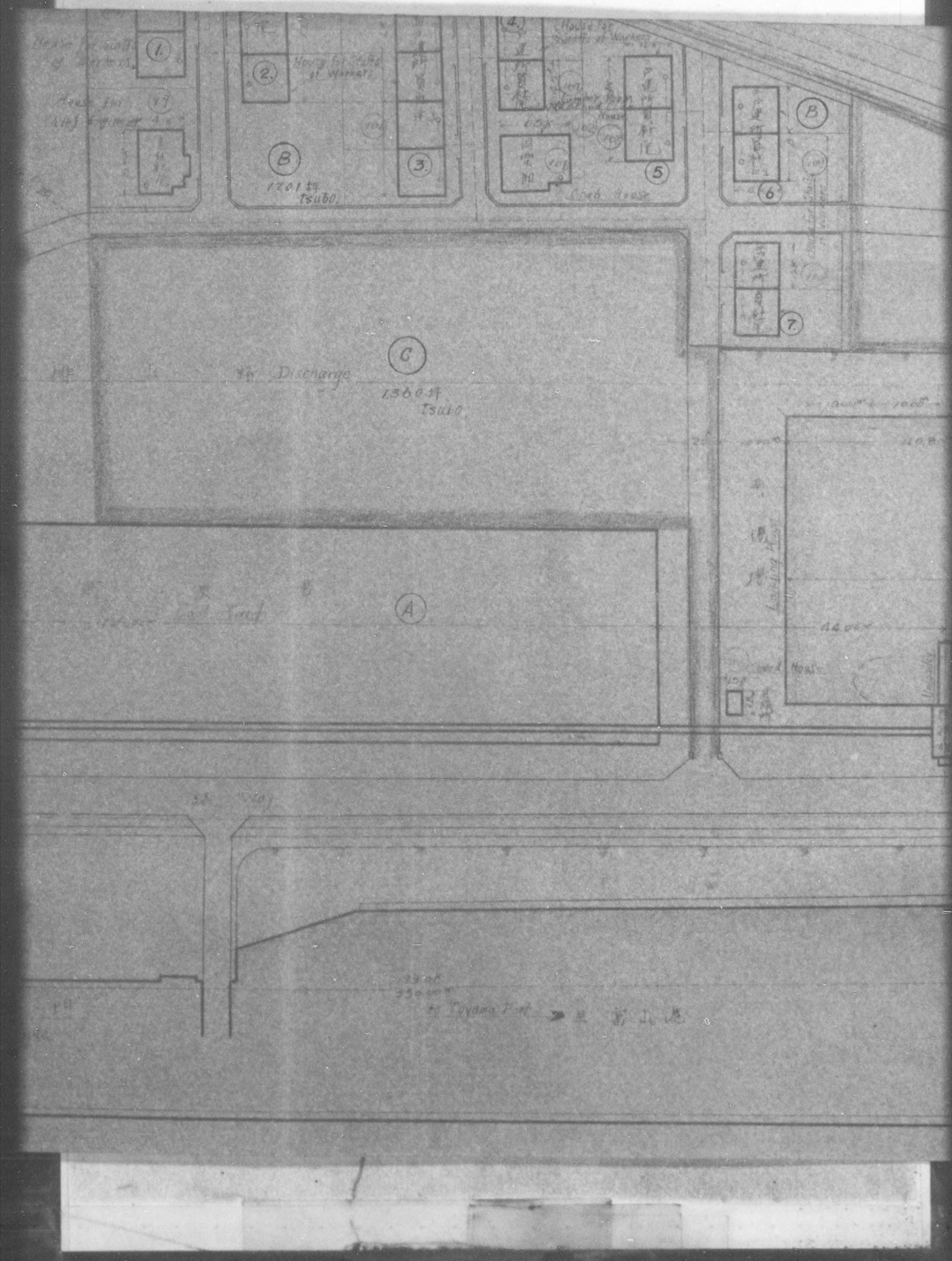

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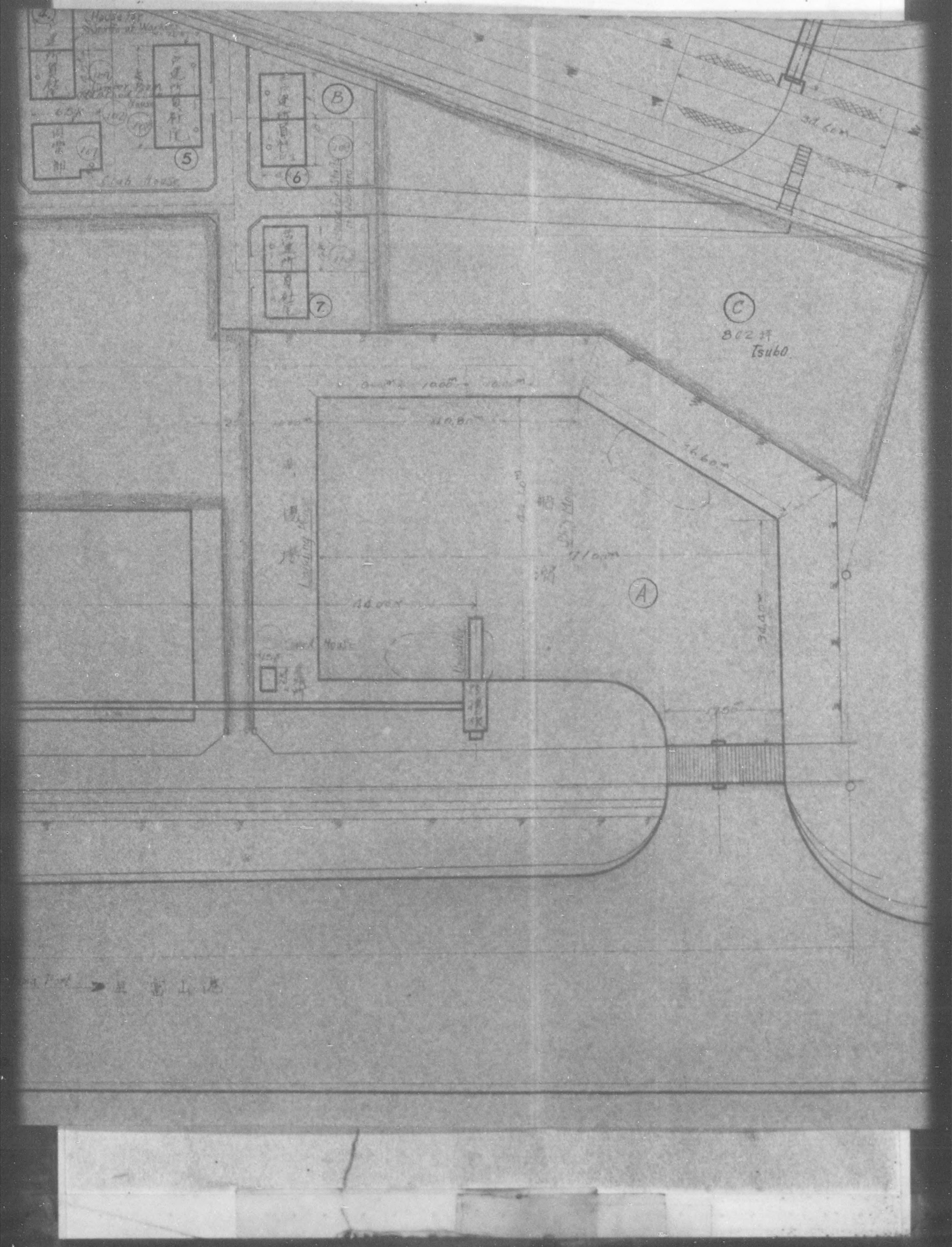
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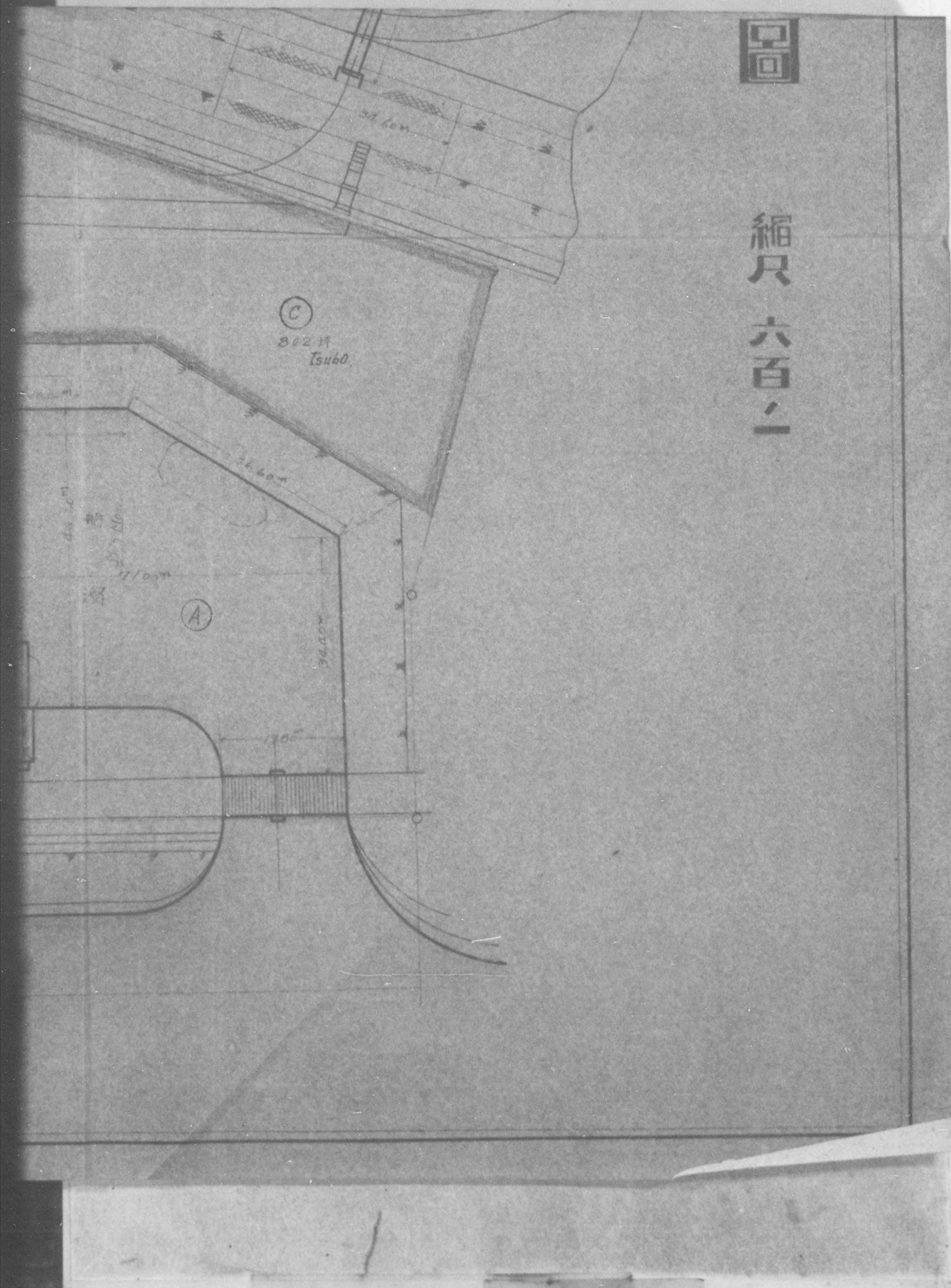

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

APPLICATION TO REMODEL THE EQUIPMENT OF THE REPARATIONS DESIGNATED PLANT.

approved
2 Aug 48
Lewis

Date: July 28, 1948

Applicant:
Name: Toyama Steam Power Plant, Japan Electric Generation & Transmission Co, Ltd.
Location: Nakajima 6, Toyama City.

To: The commander of the 8th Army.

Thru: The commanding officer of Toyama Military Government.

1. Name of reparations designated plant: Toyama Steam Power Plant, Japan Electric Generation & Transmission Co, Ltd.

2. Location of the reparations designated plant: Nakajima 6, Toyama City.

3. Subject: To remodel belt conveyer of coal handling equipment.

4. Reason for remodel:
The steel-belt of belt conveyer of coal handling equipment (Cord number, C.M.2) at Toyama Steam Power Plant has corroded and damaged so badly on account of usage of more than ten years since its installation that replacement of it is highly needed. After trying to get the replacing steel-belt, we have found it necessary to petition for importing it which will take much time, so we are now intending to take temorary counter-measure available for the time being. That is to say, shorting the total length of the belt conveyer to about a half, we may use not-so-damaged part of the steel-belt only as the annexed paper shows.
That is why we apply the remodeling herewith. Of course, this remodeling is not permanent measure and we will restore the original model as soon as we get the replacing material, so that we are disposing of procedures of petitioning to import the material.

Tomayoshi Nishijima
The custodin of Toyama Steam Power Plant.

I assure you this report is true.

Takeharu Arai
Manager of Hokuriku Branch of Japan Electric Generation & Transmission Co, Ltd.

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TOYAMA
LIAISON OFFICE

31 July 1948

TO : Commanding General of the Eighth Army

THRU : Commanding Officer of Toyama Mil.Govt.Team

FROM : Vice-Governor of Toyama Ken, now acting as Governor

SUBJECT: Recommendation for the application to remodelling of the factory under custody

As the application to remodelling the factory installations as attached reperately, has been submitted by Yorei Nishijima, custodian of Toyama Steam Power Plant, Nippon Power Generation and Transmission Co.,Ltd. located at No.6, Nakajima, Toyama City, we hereby forward our recommendation for the application, asking your special favor in authorizing the remodelling schewe, taking into consideration the following special circumstances.

1. Machine to be remodelled.
Belt conveyer (Code No. CH_2)

2. Some of the plant installations of Toyama Steam Power Plant which has continued to operate since its foundation in 1937, are considerably damaged. Especially, as the belt conveyer which is an outdoor apparatus, is terribly decayed and damaged and consequently coal transportation capacity has extremely been lowered, replacement of steel belt is under consideration, but despite our eager efforts to import it from abroad, as unable to get it in Japan, it is considereddiffieult to get it within a short period.

3. In case the operation of the belt conveyer should be suspended, resulting lower production capacity of steam in this plant, Toyama Plant of Kokoku Rayor Pulp Co.,Ltd. which is supplied steam by this plantand is closely dependent on this plant, shall be subject to a big loss, thus threatening to suspension of pulp for bank-note manufacturing which is the only supply source in Japan.

4. As a result of surveys as to national operation method of the belt conveyer due to the above reasons, it turned out that if remodelled and shortened to about the half length of it, by cutting the greatly damaged part as shown on the attached plan, it can be put into operation for the coming considerable period, and therefore, the remodelling is hereby applied.

For reference, as described on the application, the remodelling is not a permant one, but in case a substitute is supplied, we are ready to replace it.

Signed. T. Takatsuji
TAKEUCHI TAKATSUJI
Vice Governor of Toyama Ken,
now acting as Governor.

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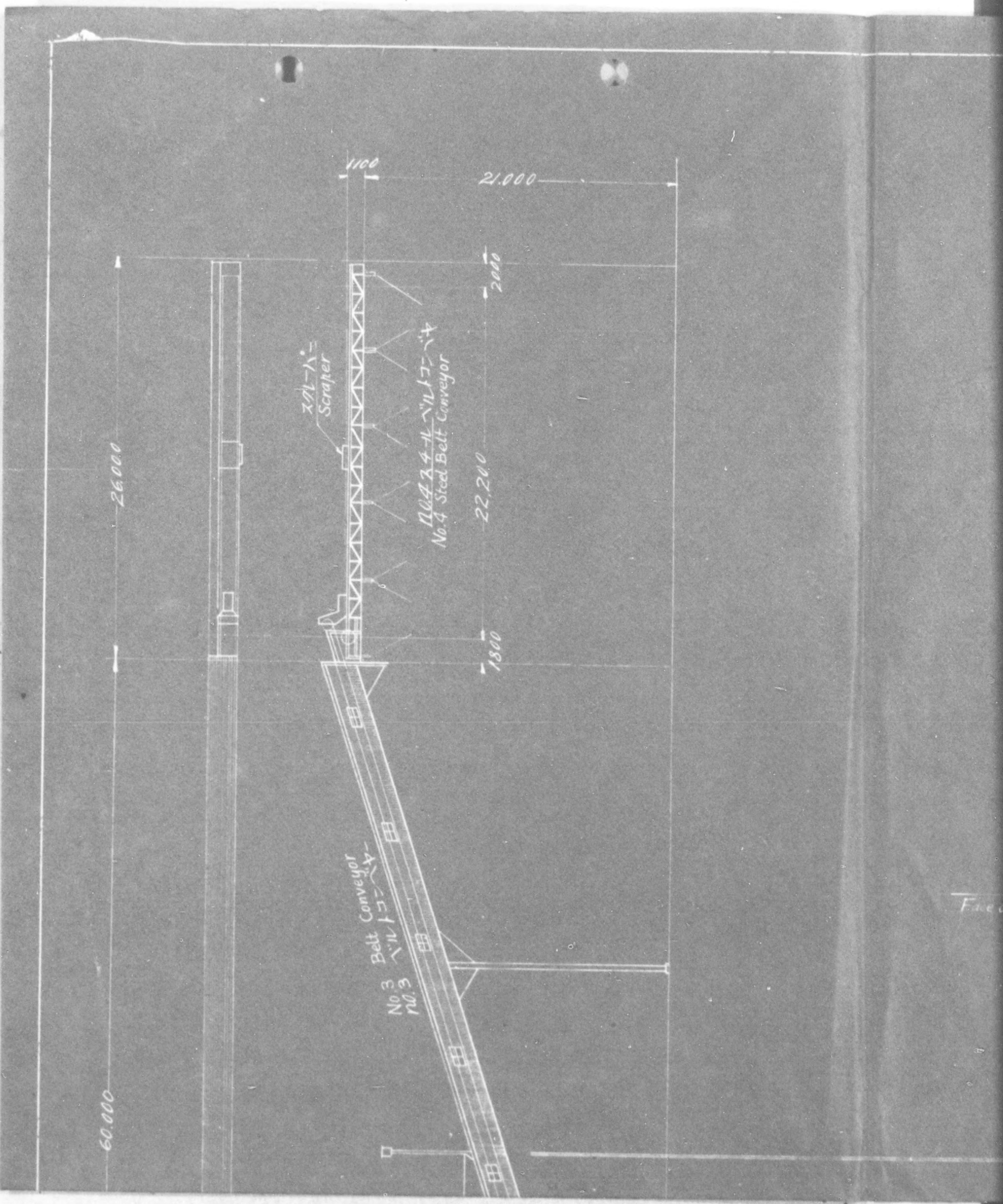
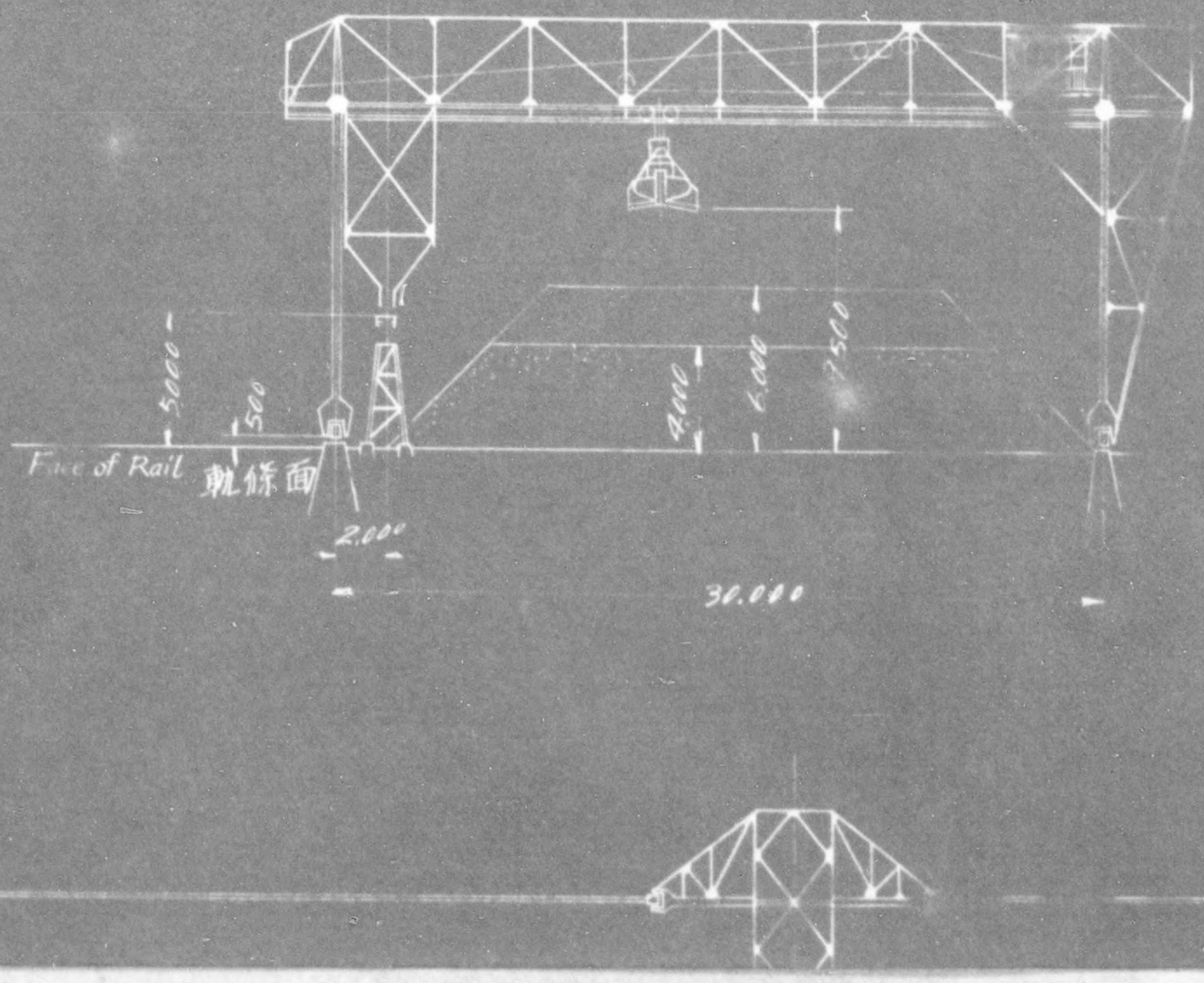


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

		TERMS	
Unloader	Capacity	80 t/hr	Pulverized
	Lift	7.5 M	up from Founda
	Travel max.		
	Winding	60 M/min •	45
	Traversing	60 M/min	7.5
Transporter	Capacity	60 t/hr	Pulverized Co
	Span		
	Lift		
	Winding	50 M/min	40
	Traversing	60 M/min	5
	Travelling	25 M/min	15
Belt Conveyor	Number	No. 1	N
	Capacity in t/hr	80	8
	Belt	Rubber 600 4P×3×1.5	6
	Velocity in M/min	75	8
	Conveyor Motor in KW	7.5	
	Feeder Motor in KW	2	
Weighing Machine		Metic Type	
Source of Current		220 V	50 ~

トランスポーター
Transporter



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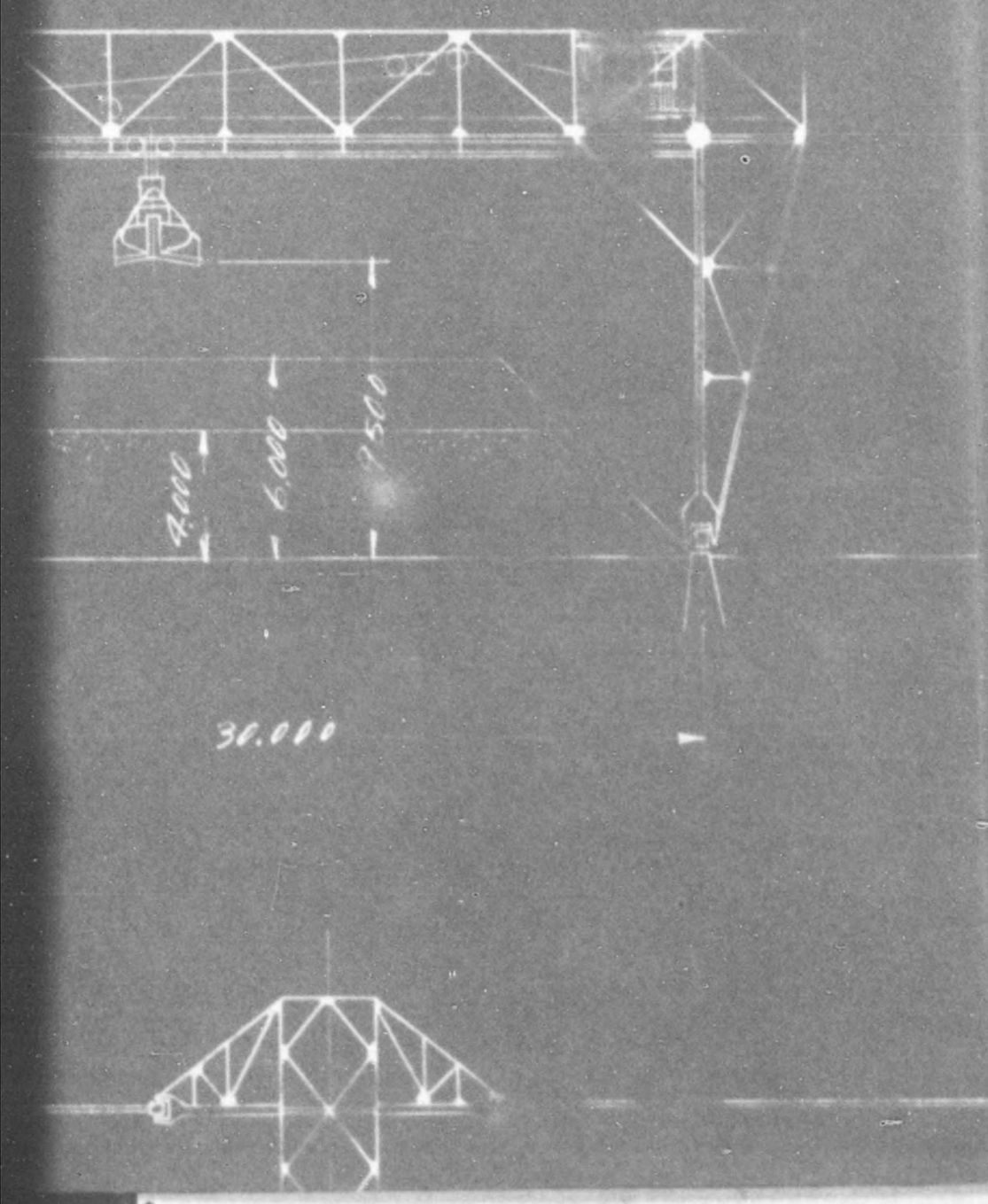
		TERMS	
Unloader	Capacity	80 t/hr Pulverized [illegible]al	Capacity of Crab 1¼ t
	Lift	7.5 M up from Founda[illegible]n	6.5 M down from Foundation
	Travel max.		7 M from Quay-wall
	Winding	60 M/min • 45 [illegible]	
	Traversing	60 M/min 7.5 K[illegible]	
Transporter	Capacity	60 t/hr Pu[illegible]nized Coa[illegible]	Capacity of Crab 1¼ t
	Span		30 M
	Lift		9 M frome Rail Face
	Winding	50 M/min 40	
	Traversing	60 M/min. 5	
	Travelling	25 M/min 5 [illegible]	

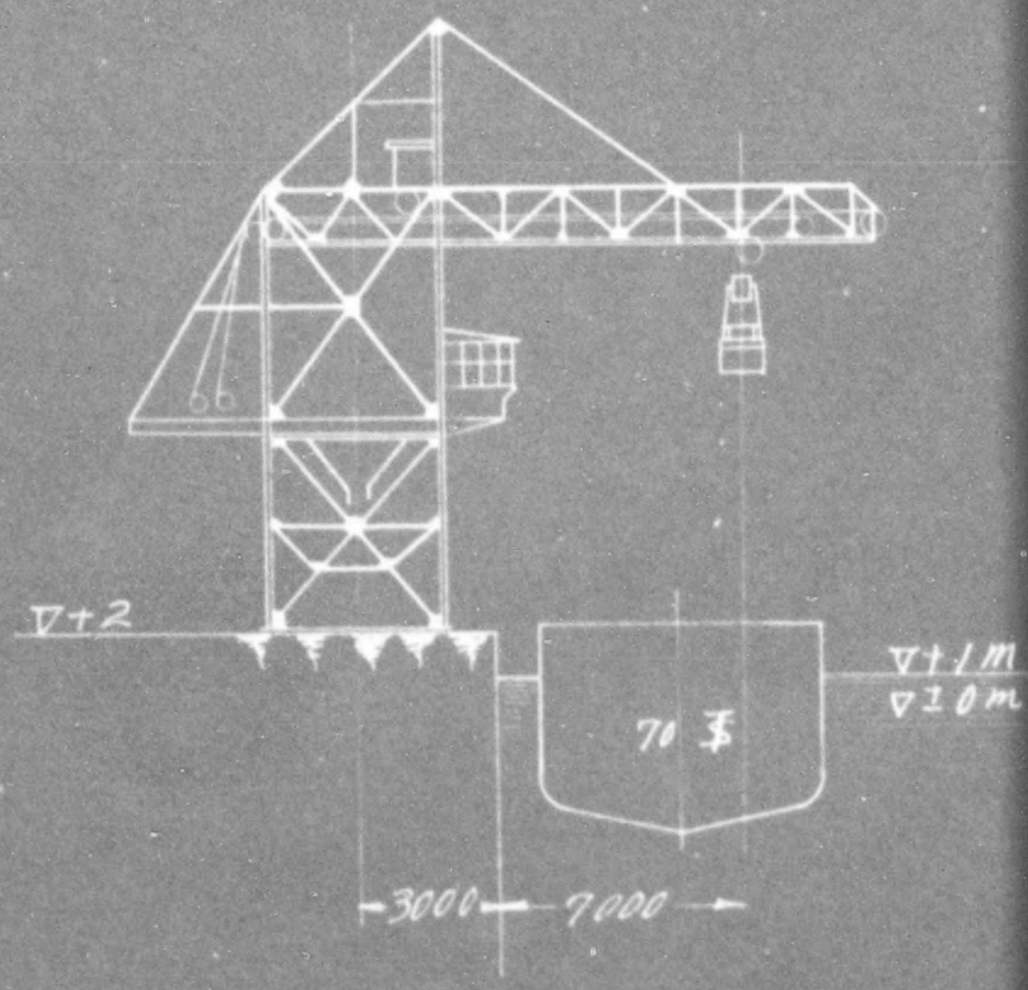
Belt Conveyor			
	Number	No. 1 N[illegible]	No. 3	No. 4
	Capacity in t/hr	80 8[illegible]	60	60
	Belt	Rubber 600 4P×3×1.5 6[illegible]×1	Rubber 500×4P×3×1.5	Steel 500×1
	Velocity in M/min	75 8[illegible]	75	75
	Conveyor Motor in KW	7.5	10	3.7
	Feeder Motor in KW	2		

Weighing Machine	Mo[illegible] Type	Capacity (Normal Condition) 80 t/hr
Source of Current	220 V 0 ~	

トランスポーター
Transporter

アンローダー
Unloader

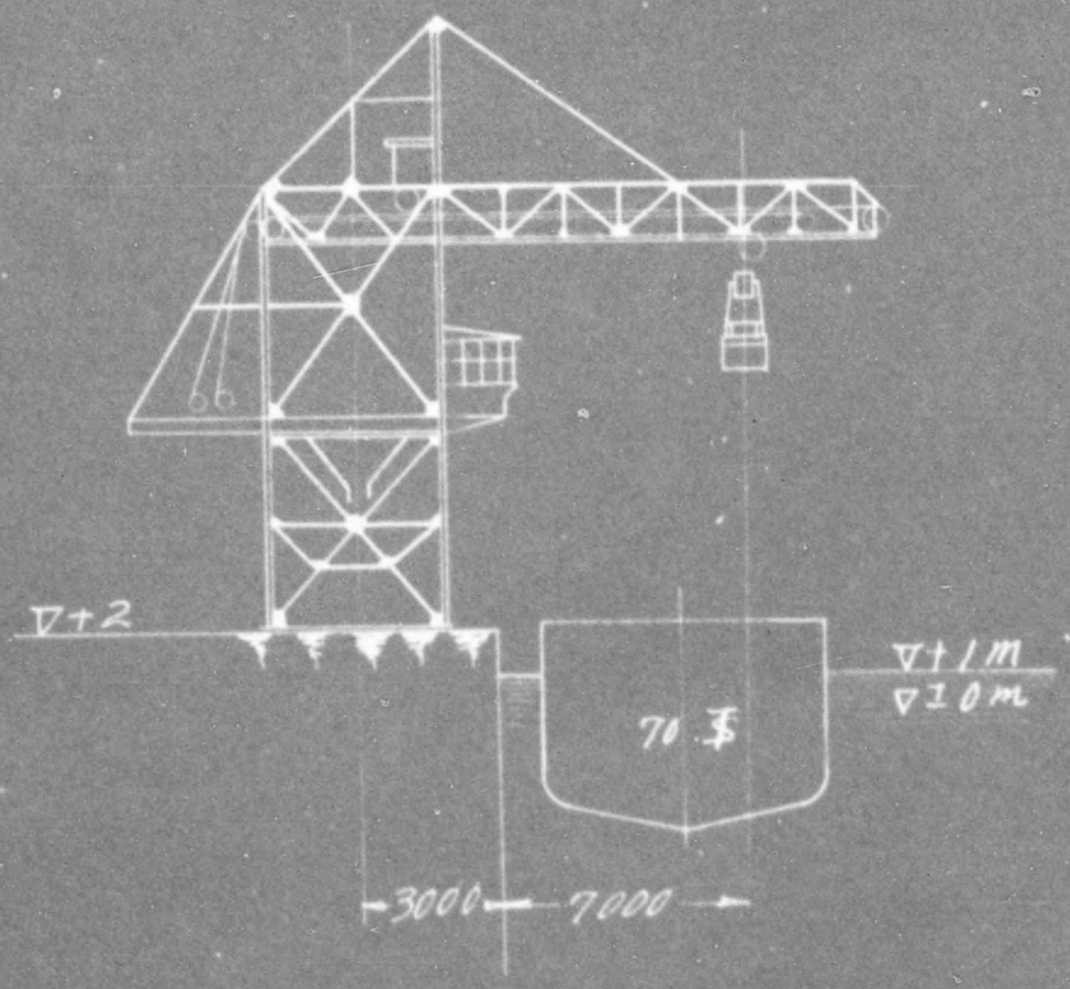




DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

of Crab	1¼ t
down from Foundation	
from Quay-wall	
ty of Crab	1¼ t
	30 M
frome Rail Face	
No. 3	No. 4
60	60
ber 500×4P×3×1.5	Steel 500×1
75	75
10	3.7
city (Normal Condition)	80 t/hr.

アンローダー
Unloader



		仕
アンローダー	容量	80 瓲/
	揚程	基礎面上
	横行距離	
	捲揚	60 米/
	横行	60 米/
トランスポーター	容量	60 瓲
	径間	
	揚程	
	捲揚	50 米/
	横行	60 米/
	走行	25 米/
コンベヤー	番号	NO.1
	容量	80瓲/毎時
	ベルト	ラバー600×4P×3×1.5 ス
	速度	米/分
	コンベヤー電動機	KW
	フィーダー電動機	KW
	重量	メリ
	電源	220

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		仕様			
アンローダー	容量	80 瓲/毎時	粉炭	容量	瓲
	揚程	基礎面上 7.5 米	基礎面下	6 米	
	横行距離		岸壁	最大	米
	捲揚	60 米/分		15 KW	
	横行	60 米/分		7.5 KW	
ランスポーター	容量	60 瓲/毎時	粉炭	グラブ容量	1.4 瓲
	径間				30 米
	揚程		軌條面上		9 米
	捲揚	50 米/分			10 KW
	横行	60 米/分			5 KW
	走行	25 米/分			15 KW

ベルトコンベヤー	コンベヤー番号	NO.1	NO.2	NO.3	NO.4
	容量	80 瓲/毎時	80 瓲/毎時	60 瓲/毎時	60 瓲/毎時
	ベルト	ラバー600×4P×3×1.5	スチール 600×1	ラバー500×4P×3×1.5	スチール 500×
	速度	75 米/分	80 米/分	75 米/分	75 米/分
	コンベヤー電動機	7.5 KW	5 KW	10 KW	37 KW
	フィーダー電動機	KW	2 KW		
荷重機		メリケン型		容量 毎時	80 瓲/毎時
電源		220 ボルト		60	

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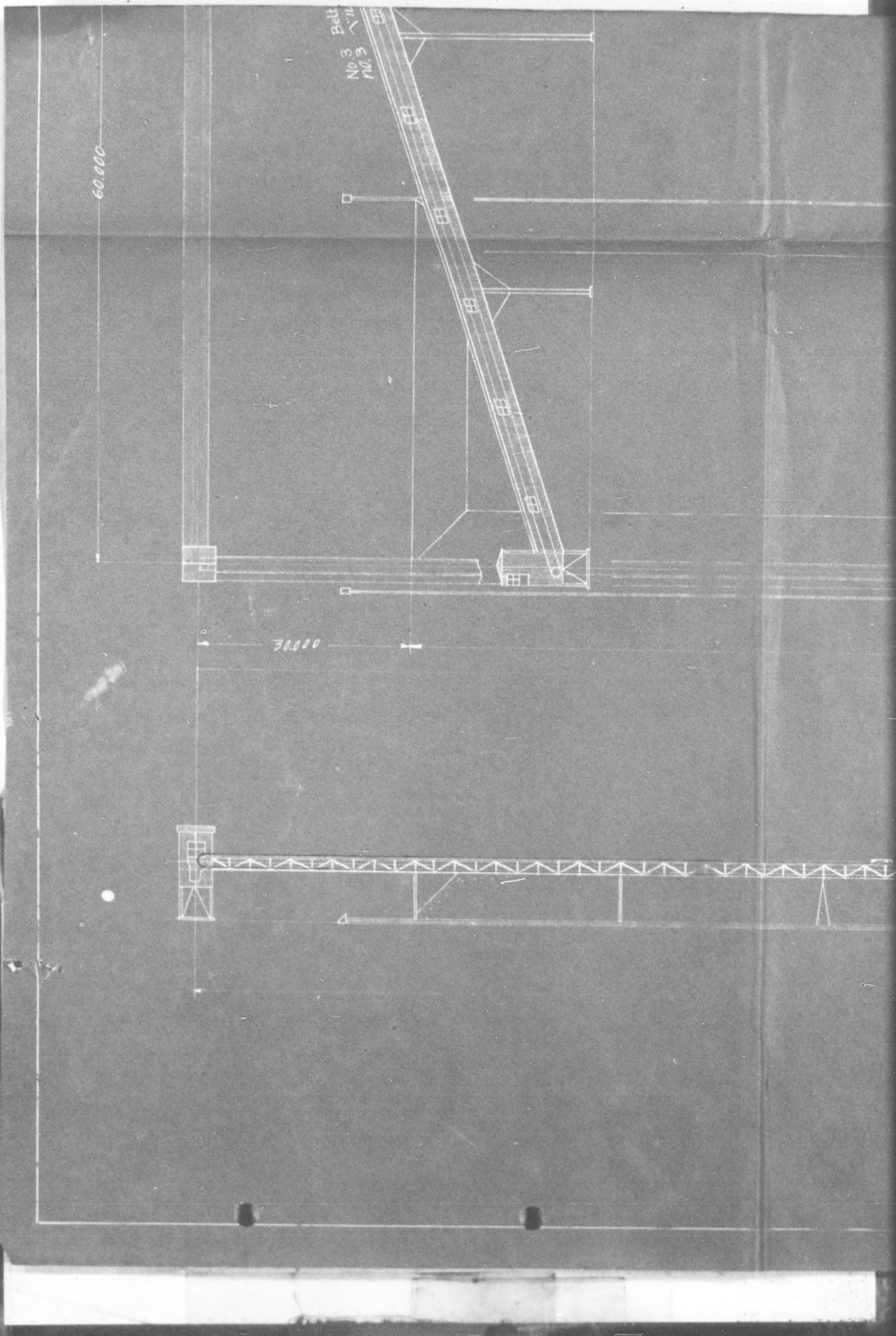
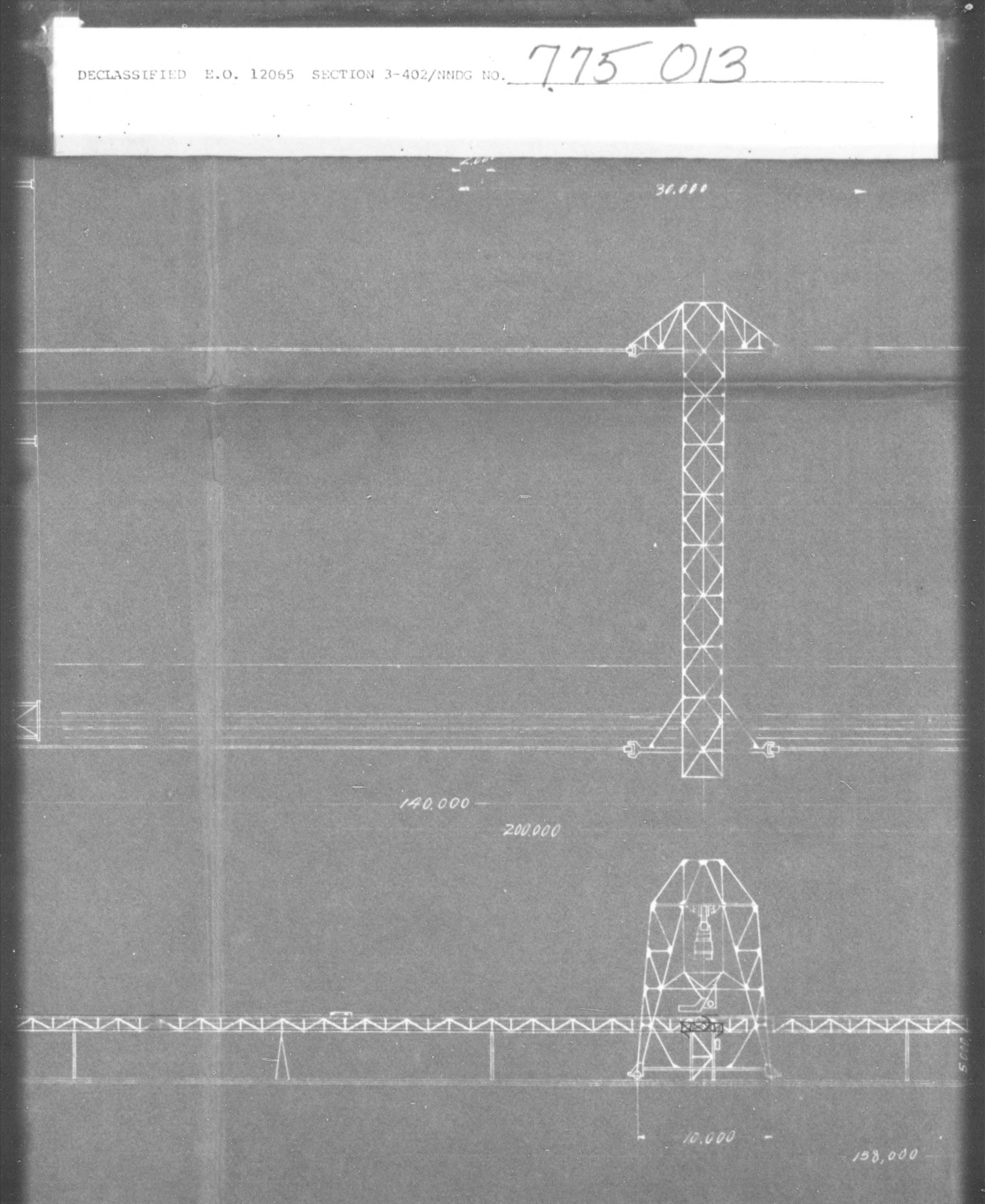


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

30.000

3000 7000

スクレーパー Scraper

NO2スチールベルトコンベヤ No.2 Steel Belt Conveyor

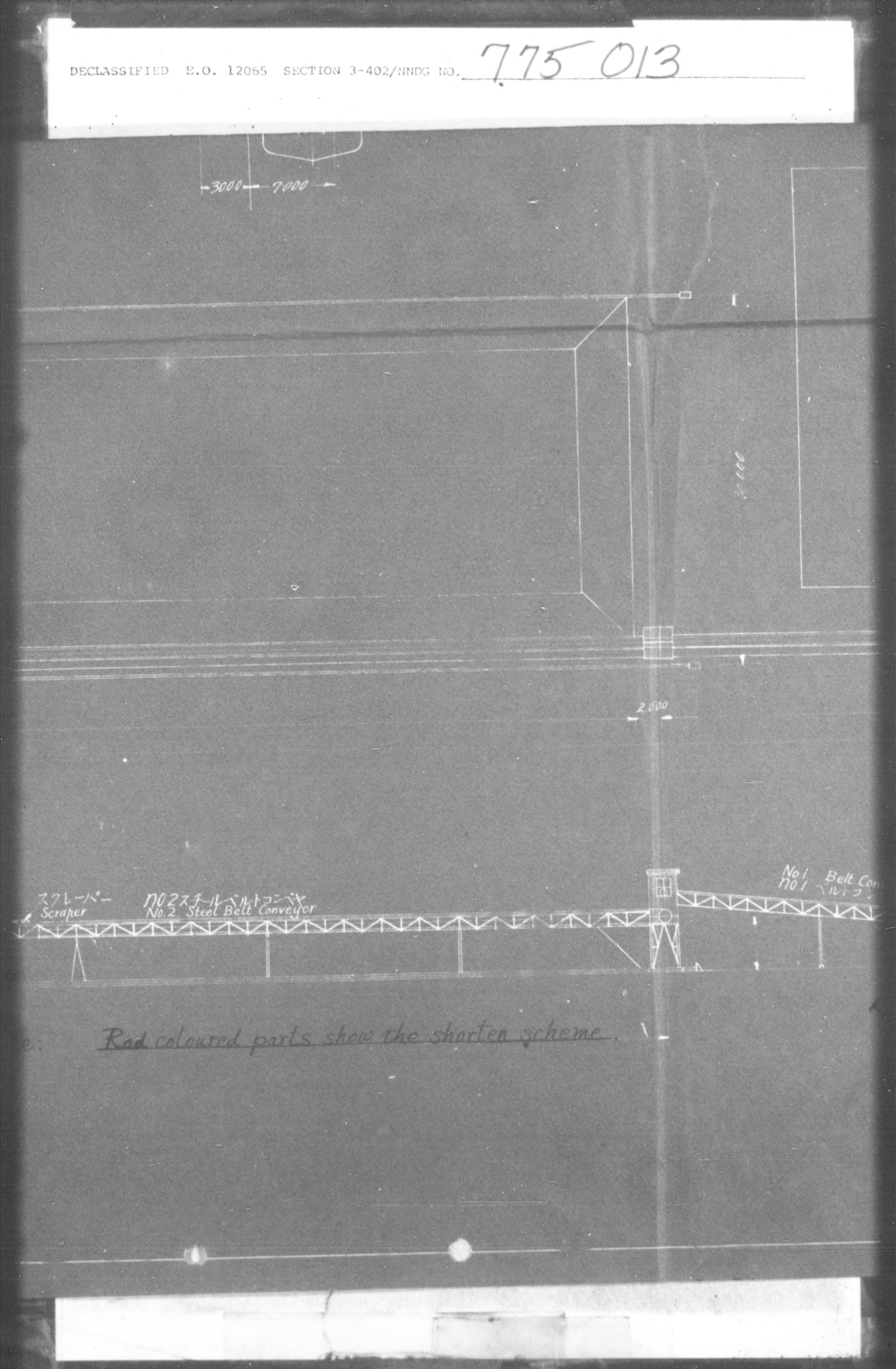
5000

10.000

158,000

Note: Red coloured parts show the s

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



Note: Red coloured parts show the shorten scheme.

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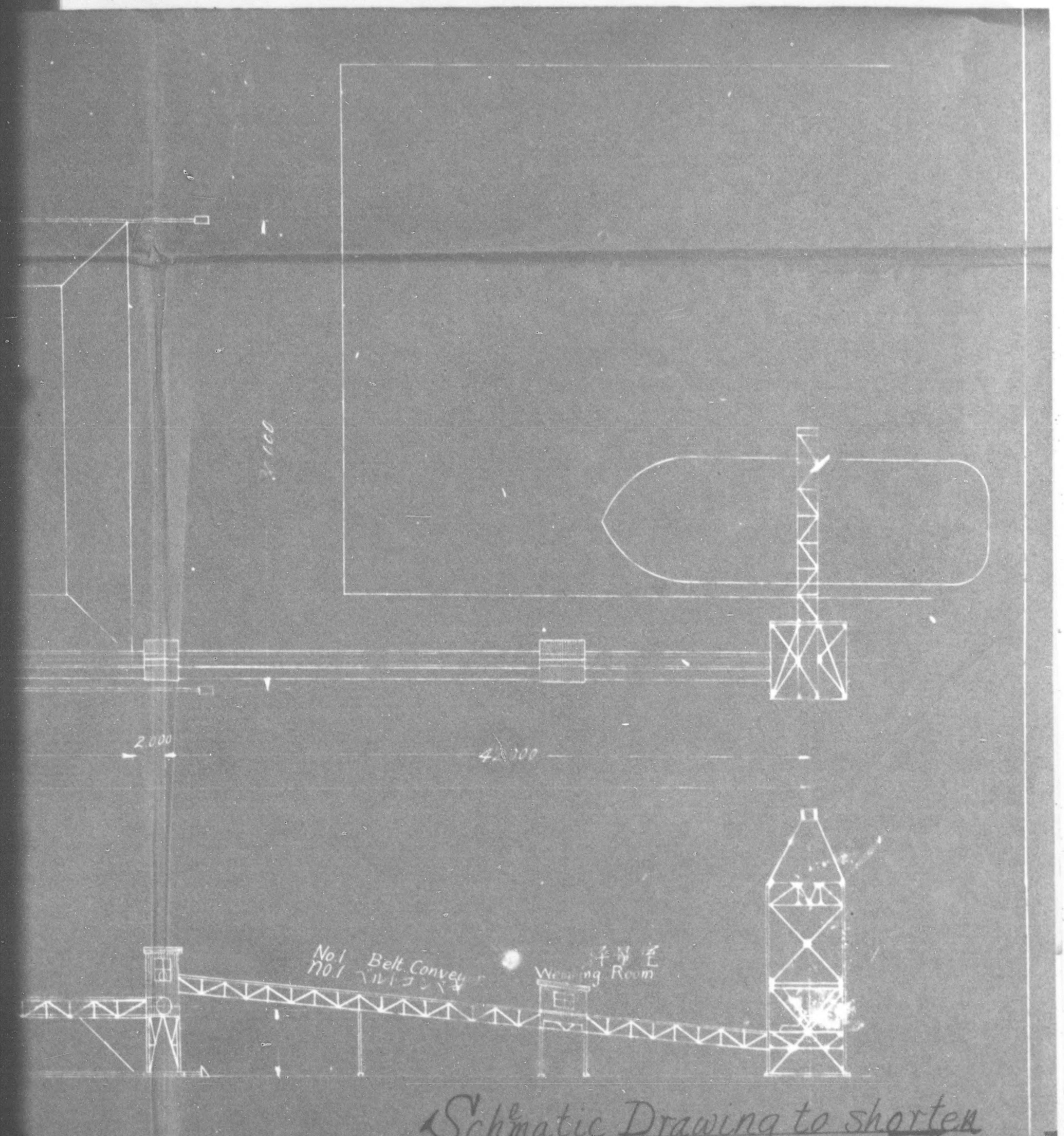

Schmatic Drawing to shorten
No.2 Belt Conveyer.

題	運炭裝置配置圖	
Arrangement Of Coal Conveyor		
日本發送電株式會社		
所名 富山發電所	圖番 X-8	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

APPLICATION TO MOVE MACHINERY

Date: July 28, 1948

1. Name of company requesting movement:
Toyama Steam Power Plant, Japan Electric Generation & Transmission Co. Ltd.

2. Address of company: Nakajima 6, Toyama City.

3. Machinery to be moved:

a) Name of machinery (including size & horse power)
Jaw-crusher, 30 H.P.

b) Number of machinery: 1

c) Where now located: Nakajima 16, Toyama City.

d) Owned by whom: Toyama Factory, Kokoku rayon Pulp Co. Ltd.

e) Where it will be moved: Toyama Steam Power Plant, Japan Electric Generation & Transmission Co. Ltd. located at Nakajima 6, Toyama City.

4. Reason for request:

a) Exactly what will be made with the machinery:
The coal having been delivered now-a-day is mixed with considerable quantity of lump-coal owing to insuffient coal selection, which is inadequate to use for the boiler of our plant. Therefore we want to install the coal crusher outdoor of the plant, as the annexed paper shows, for the purpose of crushing coal to proper grains to use efficiently for the boiler, consequently to economize coal consumption and to increase heat efficiency.

b) Date this company intends to move the machinery:
A/d month after the permission is granted.

Remarks: Above machinery requested in this application is not of reparations.

5.

a) What was the company founded to product?
Electric power, and steam which is tobe supplied to Toyama Factory, Kokoku Rayon Pulp Co. Ltd.

b) Total number of the machinery of the factory:
Boiler: 3
Turbine: 2
Coal handling equipment: 1 set.
Transformation equipment: 1 set.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

I certify the information hereon is true.

Takeharu Arai
Manager of Hokuriku Branch of
Japan Electric Generation &
Transmission Co, Ltd.

6. Recomendation of the Reparation Section, Ken:
Movement of the machinery requested in this application is (Approved) (~~Disapproved~~) for the following reasons.

Kiyoshi Sakon

I hereby certify that Machinery under Article 3 are necessary to moved to Toyama Hastudensho, Nippon Hassoden K.K. from Nakajima 6, Toyama City for economize coal consumption.

7. Permission (is) (is not) hereby granted to move machinery as requested in this application.

Joseph L. Ryland Maj.
Authorized to grant permission
for movement of machinery.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

INFORMATION ABOUT DAMAGE OF EQUIPMENT OF REPARATIONS PLANT.

Date: July 19, 1948

Name of Co.: Toyama Steam Power Plant, Japan Electric Generation & Transmission Co, Ltd.

Location: Nakajima 6, Toyama City.

To: The commanding Officer of Toyama Military Government Team.

Case of damage: The steel belt of the belt-conveyer of coal handling equipment (Code No. C.H.2), installed at our plant, was damaged duaring its operation in order to supply steam to Toyama Factory of the Kokoku Rayon Pulp Co..

1) Date of damage: At 15, the 15th of July, 1948.

2) Detail of damage: The steel belt was torn about 10 meters in longitudinal direction starting from its jointing point.

3) Cause of damage: The cause of damage is considered its wearing-off owing to usage of more than ten years since installation of our plant.

4) Repair: As we have no replacing material at hand perfect repair is impossible till the material is available, so we intend to shorten the belt conveyer by cutting off damaged part of the steel belt if our application is granted. But considering the above repair would take considerable time due to procedures of application and etc, as the coutermeasure for the time being we made on the 16th a tentative rubber-belt conveyer of 20 meters long by replacing the steel belt with a old rubber-belt we had at hand in order to continue operation.

Tomoyoshi Nishijima
Custodian of Toyama Steam Power Plant.

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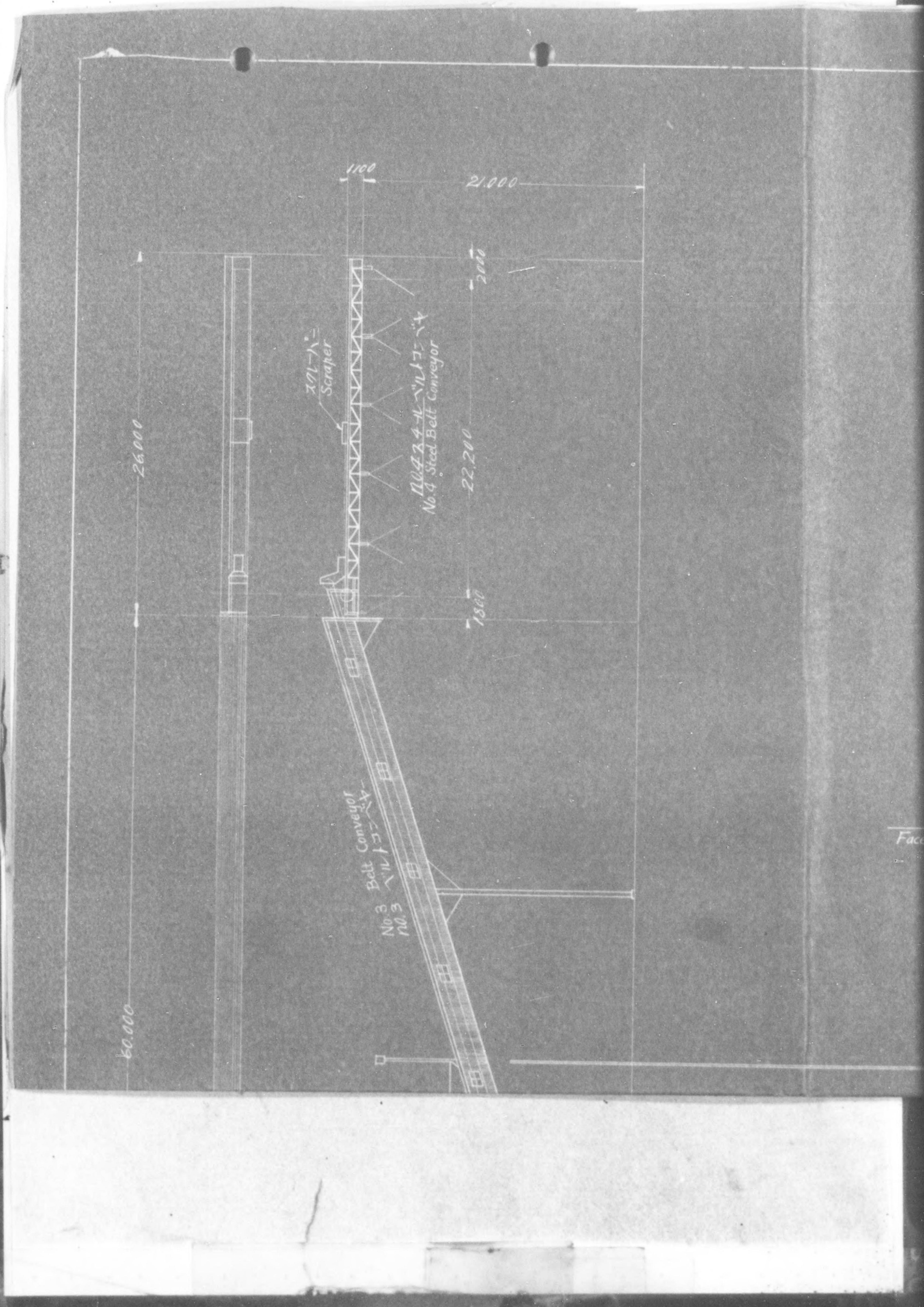
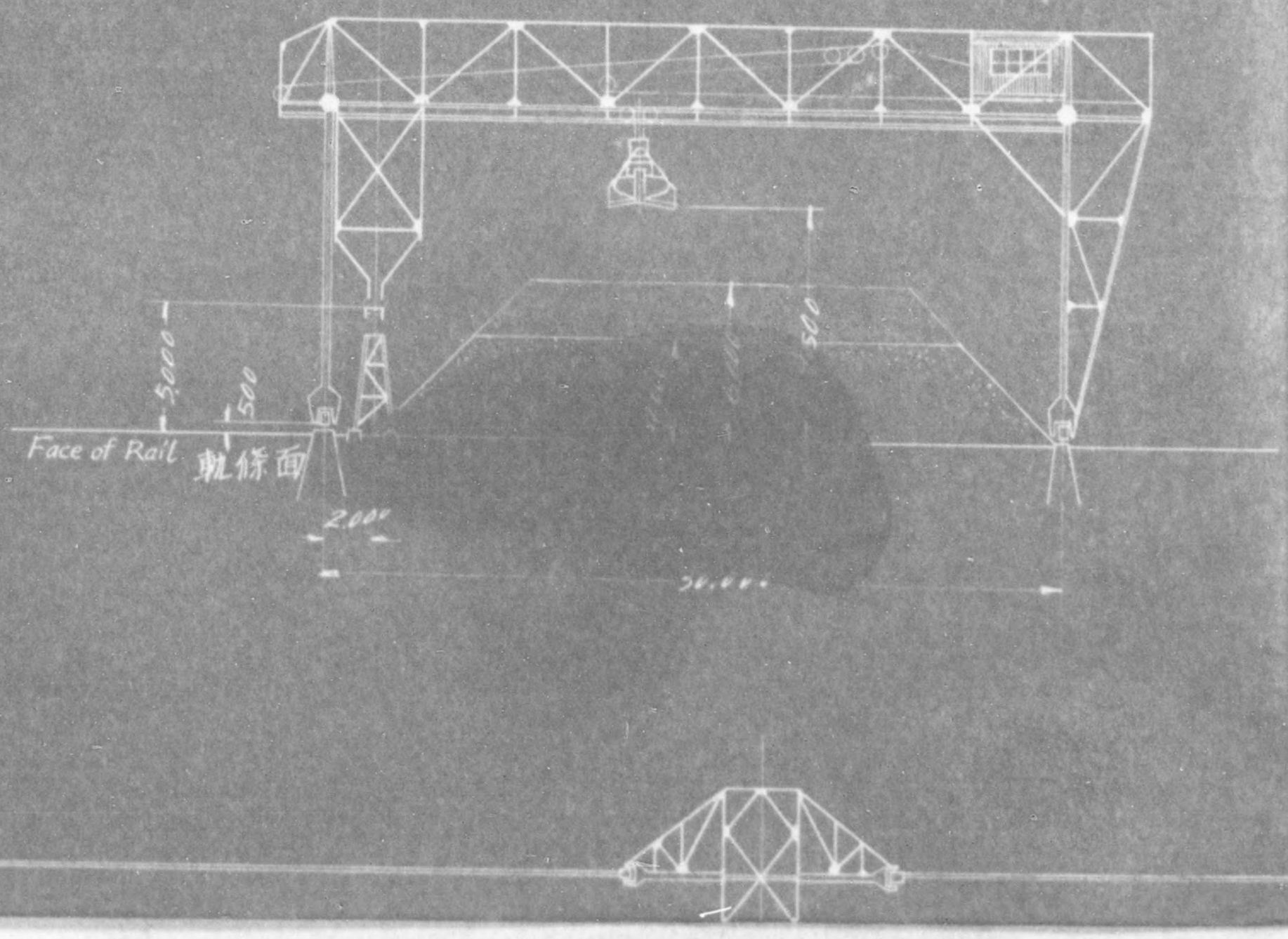


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

		TERMS		
Unloader	Capacity	80 t/hr Pulverized Coal		Capa
	Lift	7.5 M up from Foundation		6.5
	Travel max.			7
	Winding	60 M/min.	45 KW	
	Traversing	60 M/min	7.5 KW	
Transporter	Capacity	60 t/hr	Pulverized Coal	Capa
	Span			
	Lift			9
	Winding	50 M/min.	40 KW	
	Traversing	60 M/min.	5 KW	
	Travelling	25 M/min	15 KW	
Belt Conveyor	Number	No. 1	No. 2	
	Capacity in t/hr	80	80	
	Belt	Rubber 600×4P×3×1.5	Steel 600×1	Ru
	Velocity in M/min	75	80	
	Conveyor Motor in KW	7.5	5	
	Feeder Motor in KW	2	2	
Weighing Machine		Melic Type		Ca
Source of Current		220 V	60 ~	

トランスポーター
Transporter



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

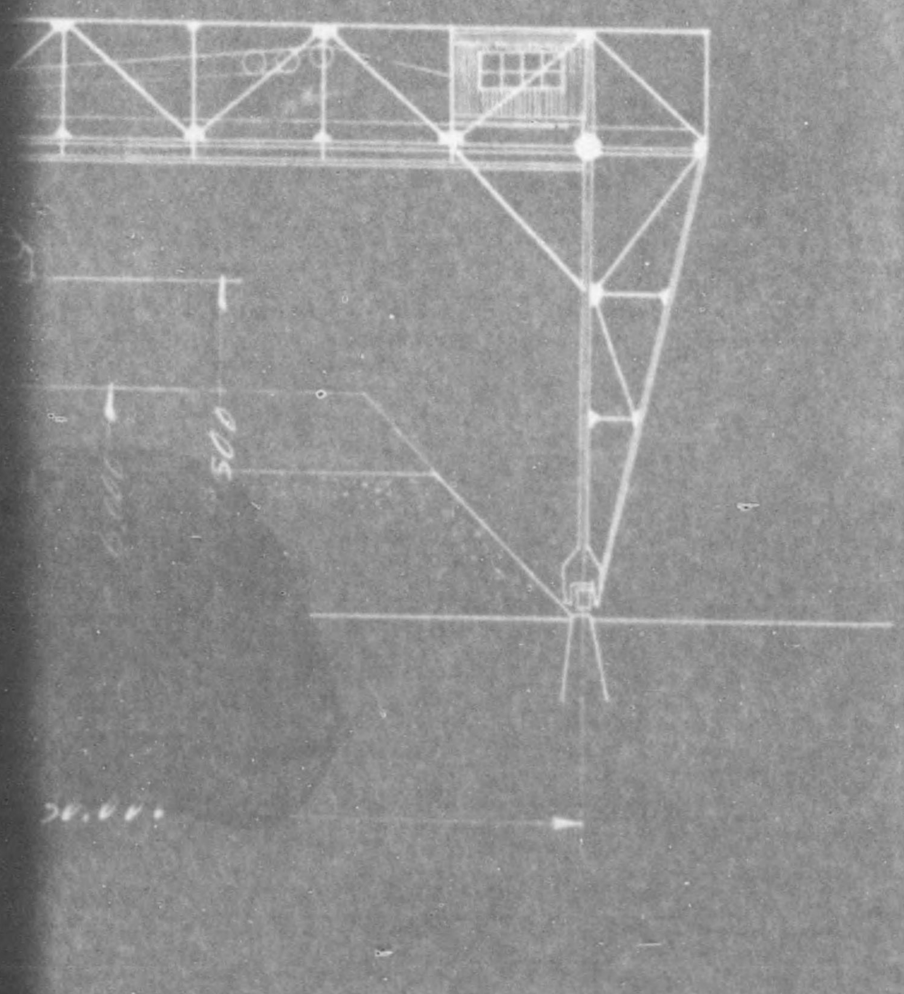
TERMS

Capacity	80 t/hr Pulverized Coal		Capacity of Crab 1¼ t	
Lift	7.5 M up from Foundation		6.5 M down from Foundation	
Travel max.			7 M from Quay-wall	
Winding	60 M/min.	45 KW		
Traversing	60 M/min.	7.5 KW		
Capacity	60 t/hr Pulverized Coal		Capacity of Crab 1¼ t	
Span			30 M	
Lift			9 M frome Rail Face	
Winding	50 M/min.	40 KW		
Traversing	60 M/min.	5 KW		
Travelling	25 M/min.	15 KW		

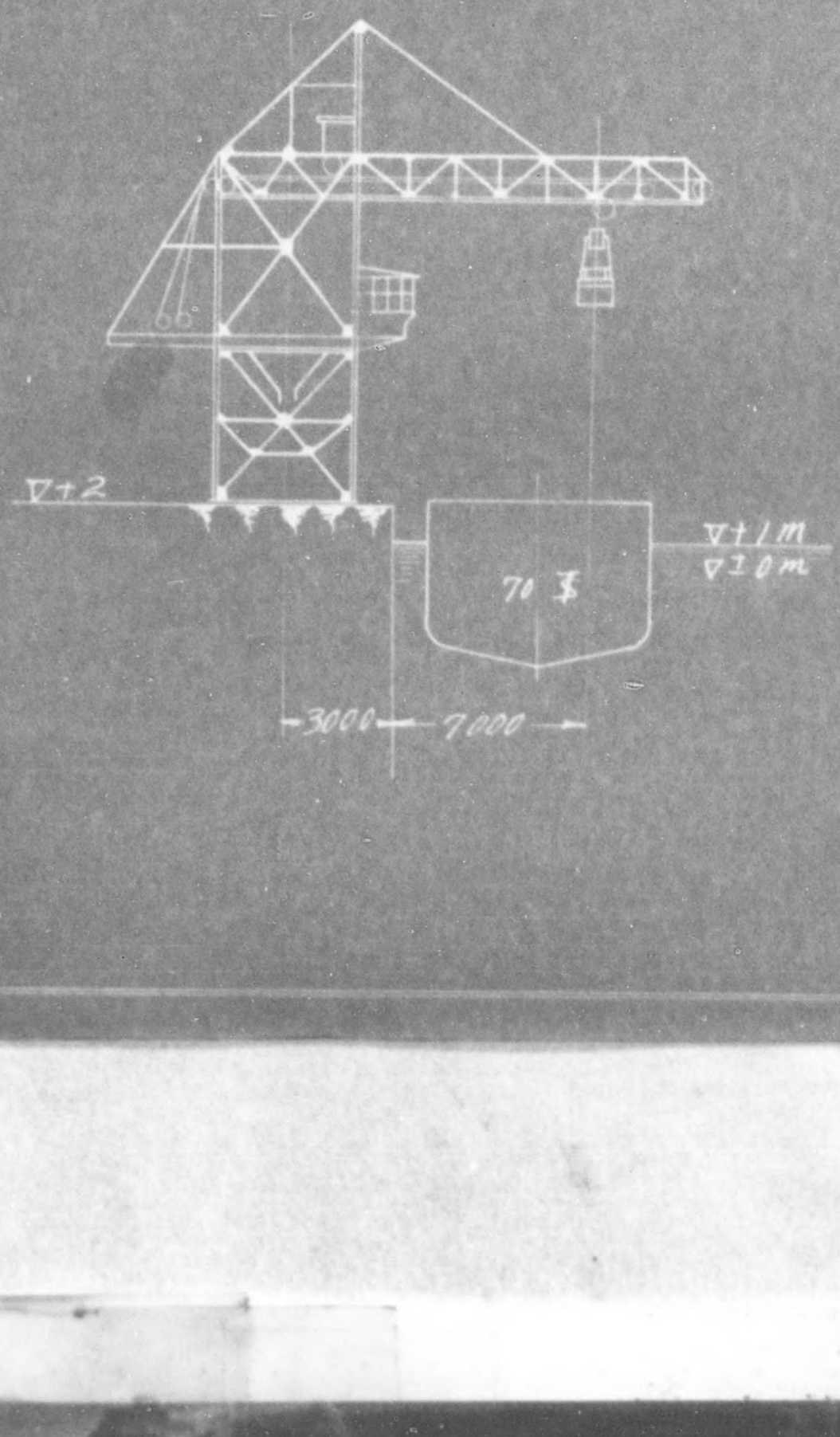
Number	No. 1	No. 2	No. 3	No. 4
Capacity in t/hr	80	80	60	60
Belt	Rubber 600×4P×3×1.5	Steel 600×1	Rubber 500×4P×3×1.5	Steel 500×1
Velocity in M/min	75	80	75	75
Conveyor Motor in KW	7.5	5	10	3.7
Feeder Motor in KW	2	2		

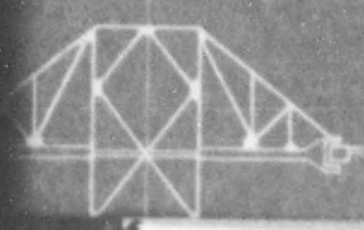
ighing Machine	Melic Type	Capacity (Normal Condition)	80 t/hr
rce of Current	220 V 6.0 ~		

スポーター
Exporter



アンローダー
Unloader





DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

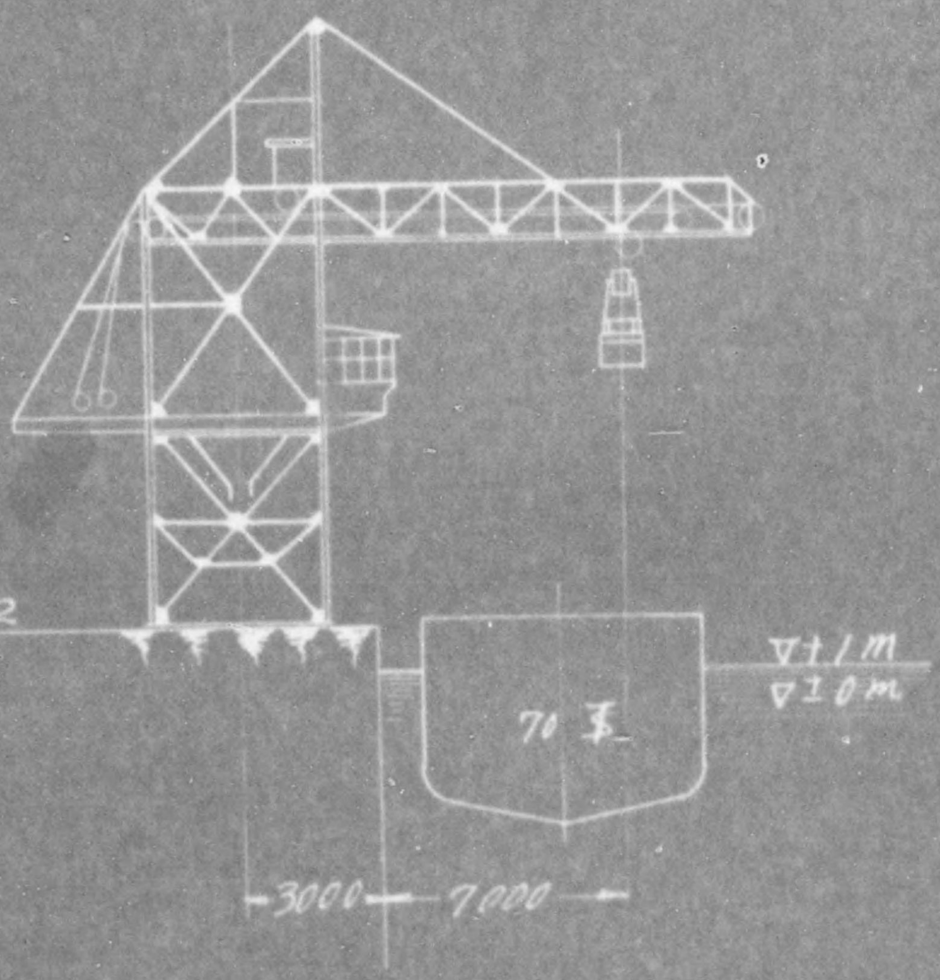
Installation Diagram of Tentative R

(indicated w

	1¼ t	
	oundation	
	wall	
	1¼ t	
	30 M	
	Face	
		No. 4
		60
	1.5	Steel 500×1
		75
	-	3.7
	Condition)	80 t/hr.

		仕　様	
アンローダー	容　量	80 瓲/毎時	
	揚　程	基礎面上 7.5 米	
	横行距離		
	捲　揚	60 米/分	
	横　行	60 米/分	
トランスポーター	容　量	60 瓲/毎時	
	径　間		
	昇　程		
	巻　揚	50 米/分	
	横　行	60 米/分	
	走　行	25 米/分	
ベルトコンベヤー	コンベヤー番号	NO.1	NO.2
	容　量	80 瓲/毎時	80 瓲/毎時
	ベ　ル　ト	ラバー 600×4P×3×1.5	スチール 600×1
	速　度	75 米/分	80 米/分
	コンベヤー電動機	7.5 KW	5 KW
	フィーダー電動機	2 KW	2 KW
秤量機		メリック型	
電　源		220 ボルト	

アンローダー
Unloader



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

llation Diagram of Tentative Rubber Belt

(indicated with red arrow)

		仕様			
トランスポーター アンローダー	容量	80 瓲/毎時	粉炭 グラブ容量	1/2 瓲	
	揚程	基礎面上 7.5 米	基礎面下	6.5 米	
	横行距離		岸壁ヨリ最大	7 米	
	巻揚	60 米/分		45 KW	
	横行	60 米/分		75 KW	
	容量	60 瓲/毎時	粉炭 グラブ容量	1/2 瓲	
	径間			30 米	
	揚程		軌條面上	9 米	
	巻揚	50 米/分		10 KW	
	横行	60 米/分		5 KW	
	走行	25 米/分		15 KW	
ベルトコンベヤー	コンベヤー番号	NO.1	NO.2	NO.3	NO.4
	容量	80 瓲/毎時	80 瓲/毎時	60 瓲/毎時	60 瓲/毎時
	ベルト	ラバー 600×4P×3×1.5	スチール 600×1	ラバー 500×4P×3×1.5	スチール 500×1
	速度	75 米/分	80 米/分	75 米/分	75 米/分
	コンベヤー電動機	7.5 KW	5 KW	10 KW	30 KW
	フィーダー電動機	2 KW	2 KW		
秤量機		メリック型	容量 毎時	80 瓲/毎時	
電源		220 ボルト	60 サイクル		

假ゴムベルト設置圖(赤矢ノ指ス部分)

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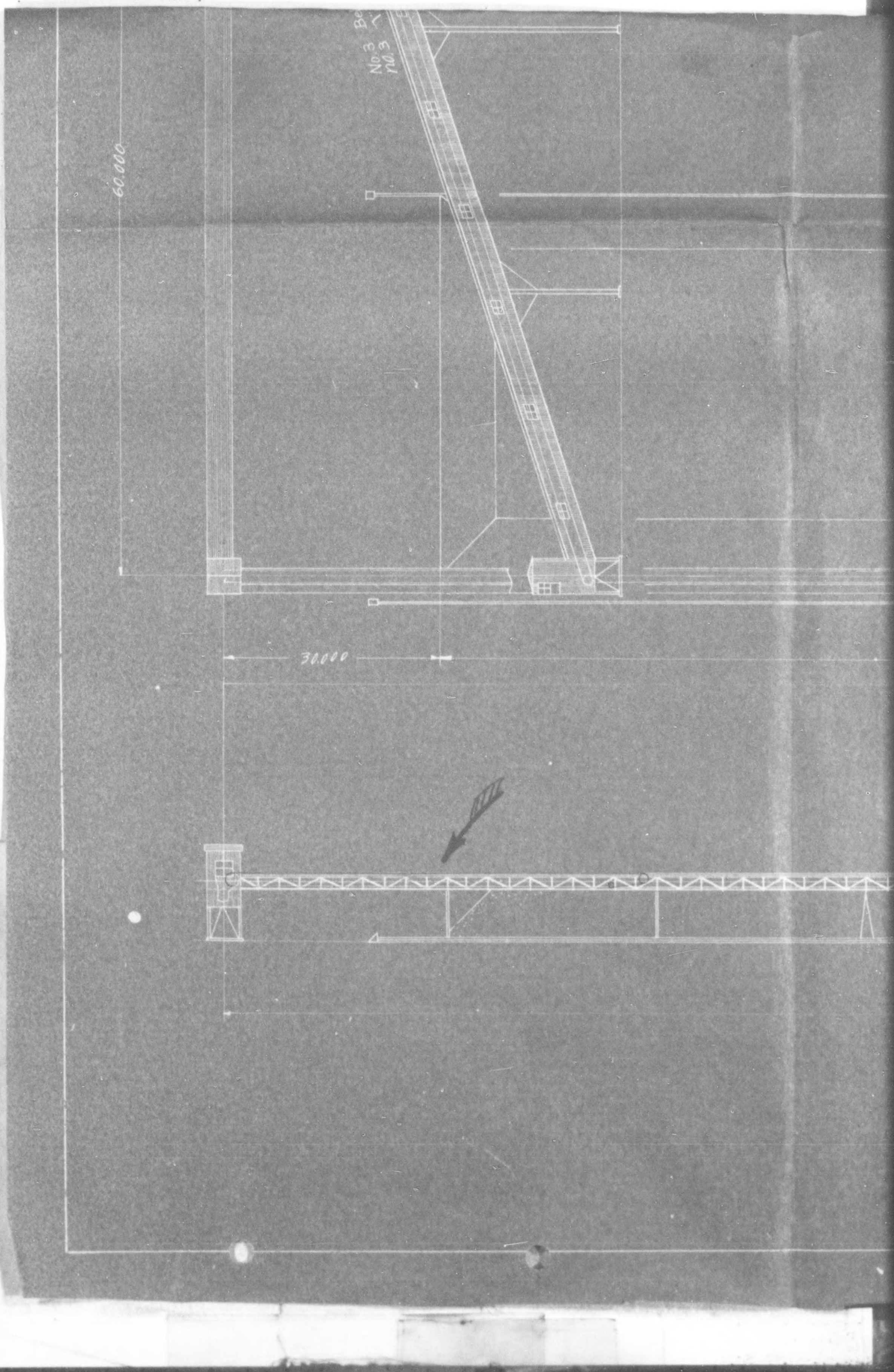

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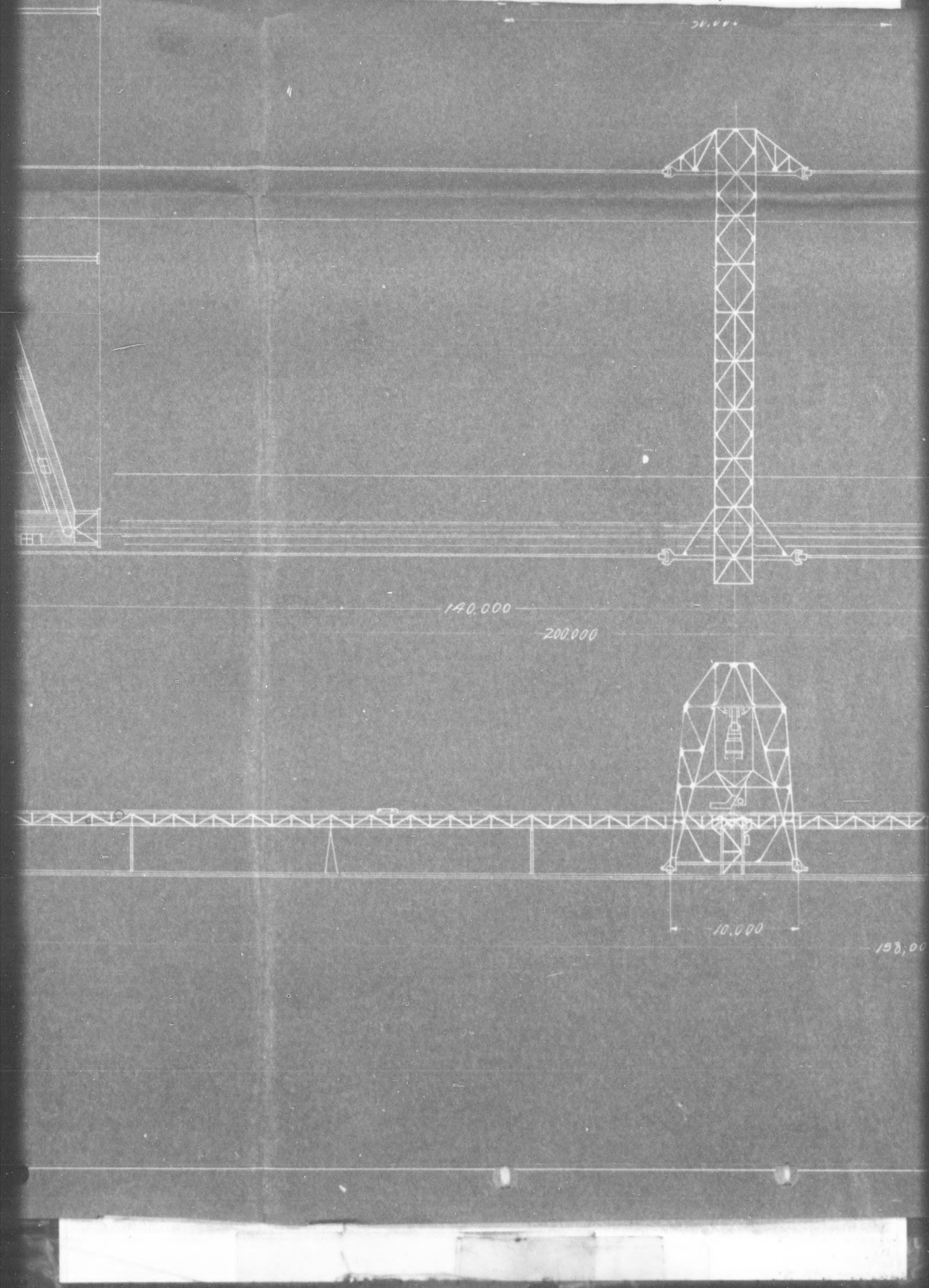

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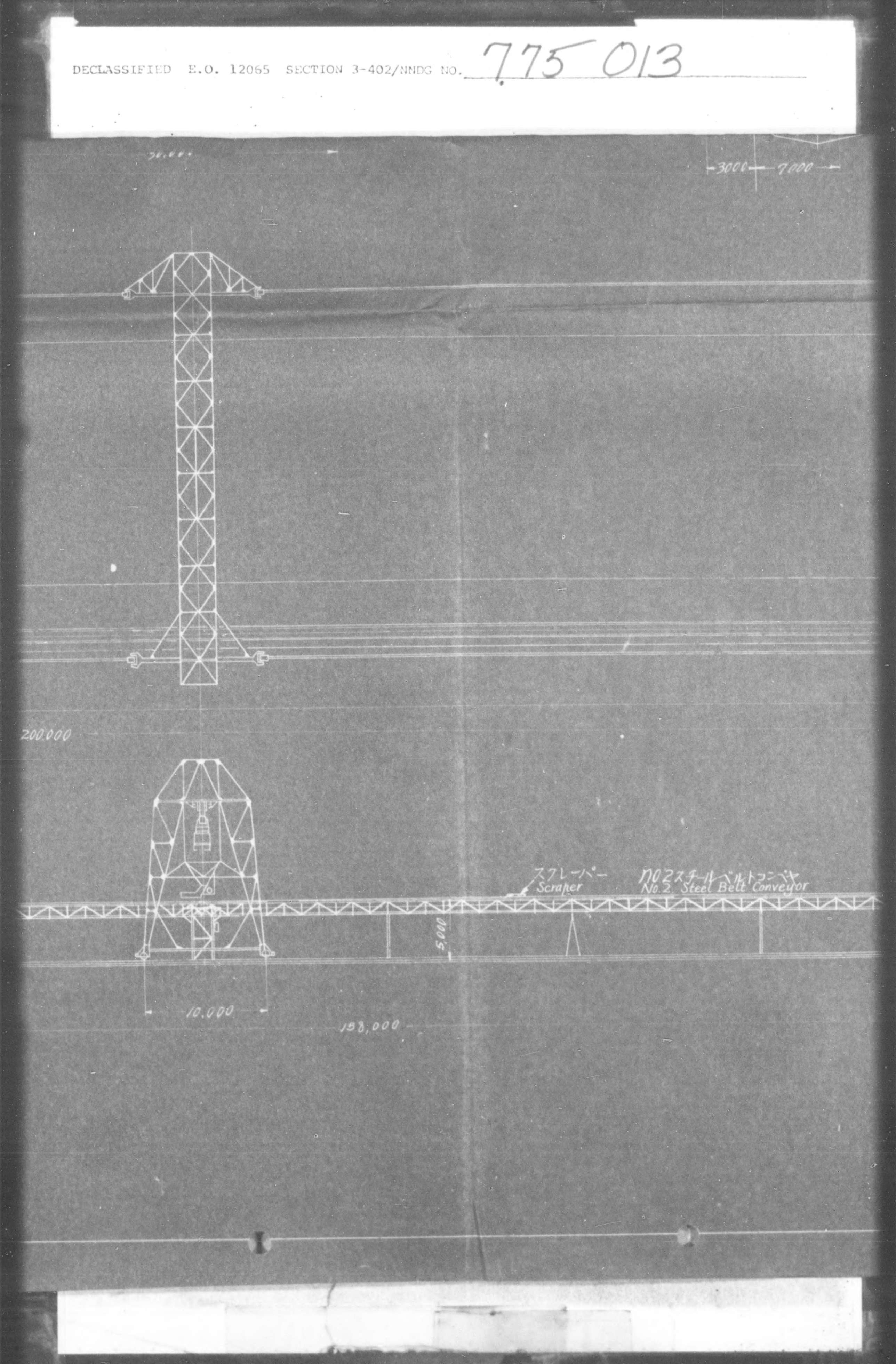
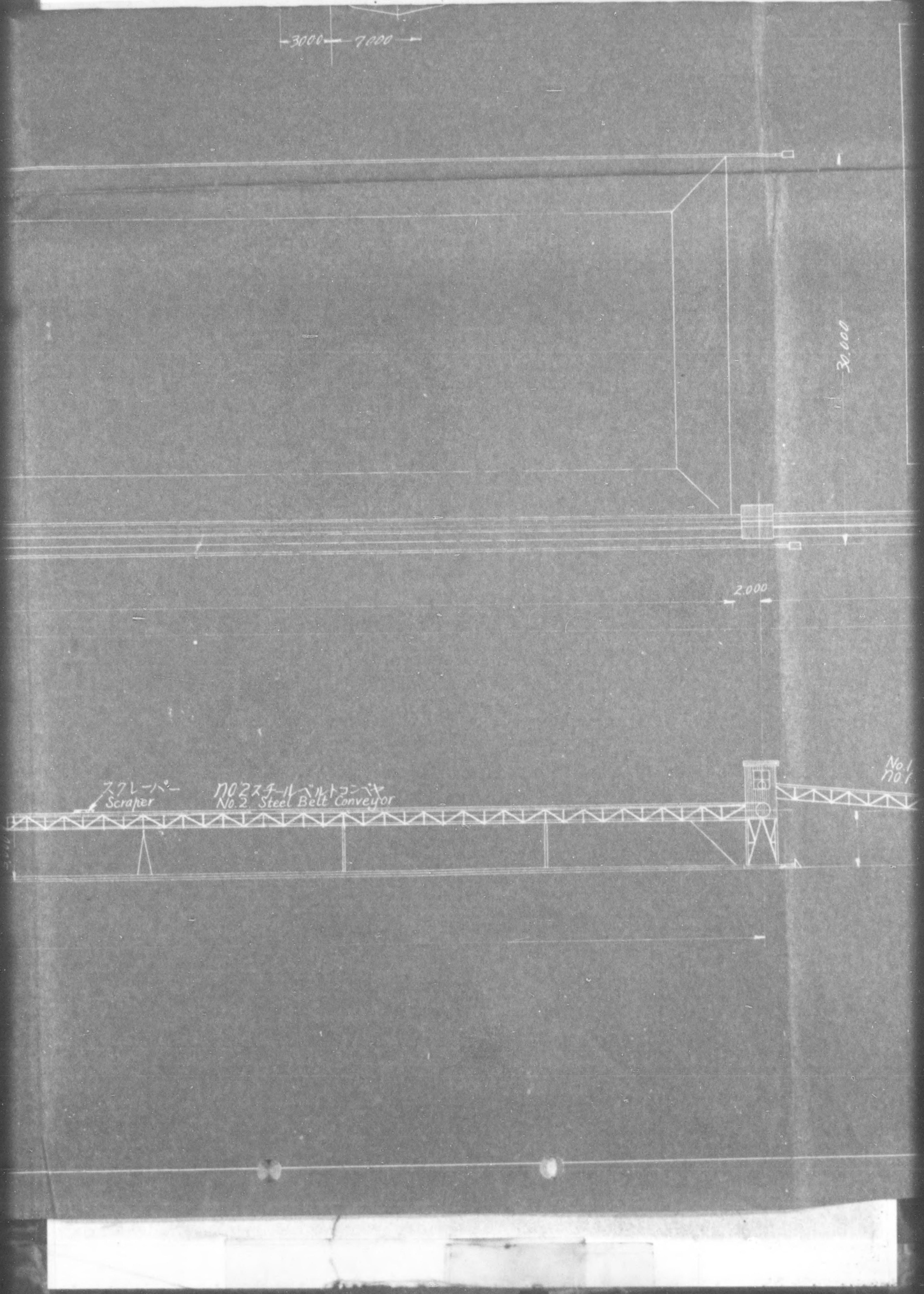
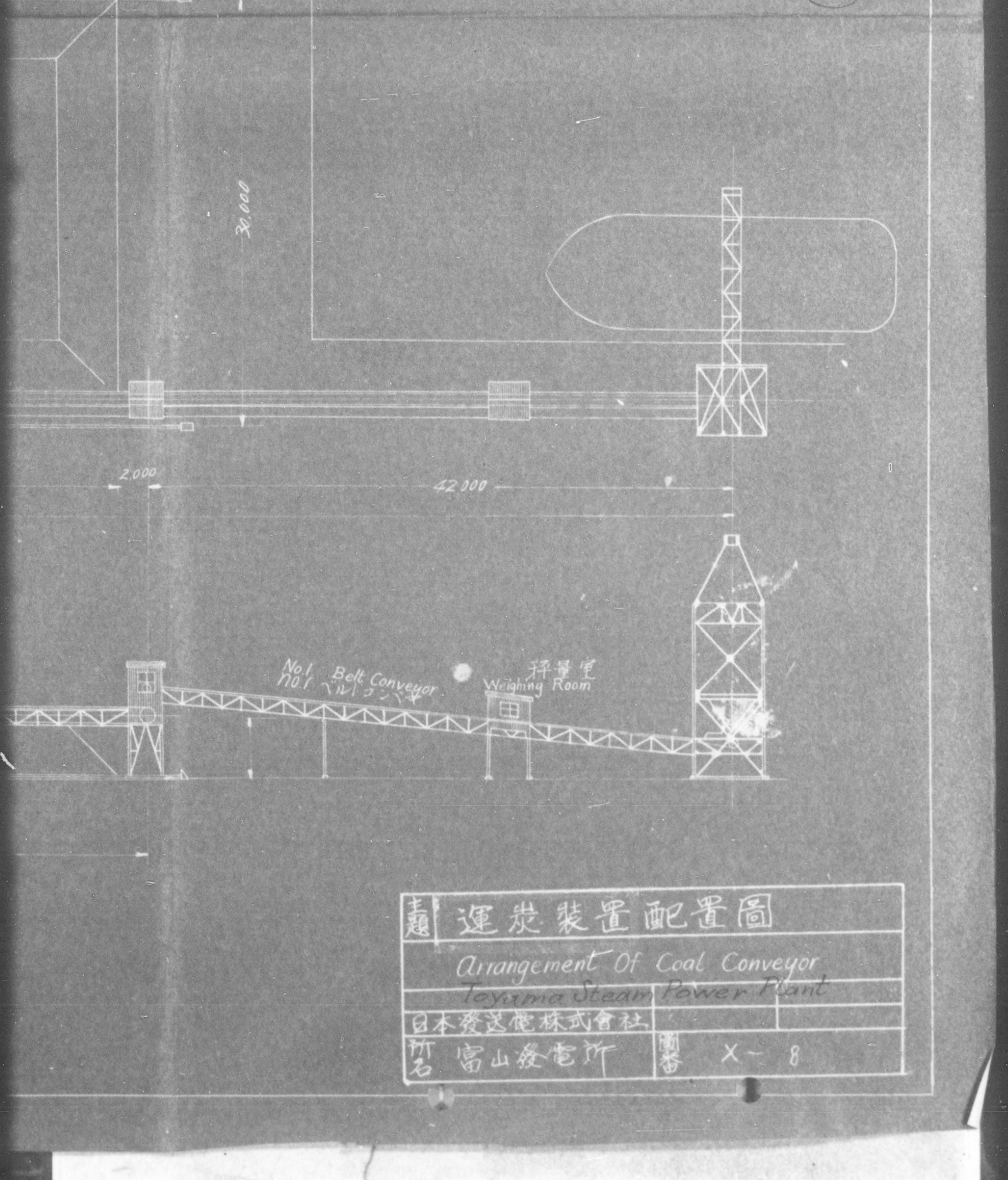


DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013



DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

指之部分



題	運炭裝置配置圖
	Arrangement Of Coal Conveyor
	Toyama Steam Power Plant
日本發送電株式會社	
所名 富山發電所	圖番 X－8

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

Kariwide Water Power Station.

Nippon Hassoden C& L.T.D.
Hokuriku Branch Office.

日本發送電株式會社

(1) Actual progressions of this erections.

	Progressions	

Hokuriku Branch Office

日本鉄道建設株式会社

(1) Actual progressions of this erections.

Item	Progressions Cutting	Concrete	Total	Remarks
Gravity dam	64.5%	15.0%	34.7%	
Intake	100.0	0.0	23.0	
Pressure tunnel	94.6	13.9	72.4	
Surge tank	100.0	63.8	87.8	
Penstock (High pressure)	99.9	18.9	69.1	
~~Substructure~~ Substructure House	100.0	76.7	85.3	
~~Substructure~~ Substructure of Power House	52.3	65.6	73.6	
Total			56.7	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 75 013

(2) Total Construction Cost Estimate

¥ 608,800,000.00

(3) Number of Labors.

600,000

(4). Required period of erection.

24 Month.

(5) Final out-put of Station

Maximum 36,000 K.W (primary 18,000 K.W)

Minimum 9,000 K.W (during winter)

日本發送電株式會社

(6) Labor's Wages.

Item	wages/day	Item	wages/day	Remarks
Commander	¥ 236.00	Chauffeur	¥ 206.00	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDC NO. 743 013

(5) Final out-put of Station

Maximum 36,000 KW (primary 18,000 K.W)

Minimum 9,000 K.W (during winter)

日本發送電株式會社

(6) Labor's Wages.

Item	wages/day	Item	wages/day	Remarks
Commander	¥ 234.00	Chauffeur	¥ 206.00	
Rock-drill man	248.00	Carpenter	~~277.00~~	
Collier	241.00	Roofer	268.00	
Grinder	248.00	Stone-mason	277.00	
Axe-man	~~262.00~~ 248.00	Tobifu	234.00	
Smith	241.00	Navvy	200.00	
Black-smith	241.00	Cooly	193.00	
Laborer of electricity	241.00	Woman-cooly	153.00	

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

(7) Required materials for Construction

Item	Quantity	Unit	Unit price	Cost	Remarks
Iron & Steel	2,900 00	ton	¥ 13,000 00	¥ 37,700,000 00	
Portland cement	27,000 00	ton	3,000 00	82,650,000 00	
Timber	50,000 00 (16,000 00)	Koku (m³)	1,000 00	50,000,000 00	
Etc				66,029,650 00	
Total				¥97,000,000 00	

INCL 3

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775013

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 775 013

Electric Power

NARUDE HYDROELECTRIC GENERATION PROJECT

HOKURIKU BRANCHI
NIPPON HASSODEN K.K.

(1) Construction Result To Date

DESCRIPTION	RESULT excavation %	RESULT concrete %	TOTAL RESULT %	REMARK
Dam	64.5	15.0	34.2	
Intakage	100.0	0.0	23.0	
pressure Tunnel	94.6	13.9	72.4	
pressure Readjustment water Tank	100.0	63.8	89.8	
Super High-pressure Tunnel	99.9	18.9	69.1	
Generation Basement	100.0	74.7	85.3	
Flood control channel	52.3	65.6	73.4	
Total			56%	

(2) Estimated Sum From present To Completion;
¥ 608,000,000.00

(3) No. of Workers Necessary For Construction
600,000 persons

(4) period for Completion
24 months

(5) Generating Power After Completion
Maximum 36,000 K.W.

Ordinary Time 9,000 K.W.

(6) Wages For Labor.

Classification Labour Type	Wages (yen)	Classification Labor Type	Wages (yen)
Manager	234.00	Driver	206.00
Excavator	248.00	Carpenter	477.00
Miner	241.00	Roofer	248.00
Grinder	248.00	Stone-mason	477.00
Ax worker	262.00	High-place Worker	200.00

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

Feb ~~19~~ 26. 1948.

Hokuriku Electric Supply Co.

To Toyama Army Government Team.

We hereby forward you the list of "work-divided" mass consumers of electric-power in Toyama prefecture, which you have inquired us ~~by your letter~~ orally January29. 1948.

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THE 'ALLOTMENT OF ELECTRIC-POWER' TABLE.

Allotment for grand-scale consumer (over 500KVA&recognized factory)

(1) Consumer of Electricity

Forward of written application.
original I sheet attested-copy 2 (60 days forward)
attested-copy I sheet copy I (60 days forward)
original I attested-copy 3 copy I (60 days forward)

(2) Competent Authorities

demand-list& attested copy.I (40 days forward)

Electric Company

Commerce&Industry Section (Electric-Power Division)

Making of 'work-divided'demand list. demand-list&attestedcopyI (40 days forward)

(3) Economic Stabilization Board

(30 days forward)

Electric-Power Section of commerce&Industry Bureau.

Inspection of Electric'demand&supply'plan and'work-divided'demand list.

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(40 days forward)

(3) Economic Stabilization Board

Electric-Power Section of commerce&Industry Bureau.

(30 days forward)

Inspection of Electric'demand&supply'plan and'work-divided'demand list.

(I5 days forward)

(4) Competent Authorities

(I5 days forward)

Making of provisional 'factory-divided'allotment list in the limit of'work-divided 'demand ~~list~~.frame.

(5) Commerce&Industry Section (Electric-Power divition)

Formal decition of 'factory-divided' allotment and delivery of allotment-certificate.

(5 days forward)

(5 days forward)

(6) Consumer of electricity

Electric Company

Presentation of allotment-certificate.

THE LIST "WORK-DIVIDED" MASS CONSUMERS
OF ELECTRIC-POWER
(AS of Jan. 1948.)

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773013

THE LIST "WORK-DIVIDED" MASS CONSUMERS
OF ELECTRIC-POWER
(AS of Jan. 1948.)

Hokuriku Electric Supply Co.LTD.

DECLASSIFIED E.O. 12065 SECTION 3-402/NNDG NO. 773 013

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Work-divided	Company Name	Name of Factory	Case of Demand		Promised Amount	Allotment	Amount
Transport	Toyama Local Rail-way Co.	Main way& Tateyama Branch-way	A (1)	U	1.400	1947.12	540
				T		1948.1	432
				S		2	450
				totall	1.400	3	484
Iron & Copper	Nippon Iron-pipe Co.	Toyama Electro manufacture	A (2)	U	6.000	1947.12	3.373
				T		1948.1	298
				S	6.000	2	280
				tot	12.000	3	360
	Nippon High-cycle Industry Co.	Toyama Factory.	B	U	3.000	1947.12	866
				T	2.000	1948.1	298
				S	5.000	2	280
				tot	10.000	3	316
	Nippon Soda Co.	Iwase Factory.	B	U	2.000	1947.12	1.247
				T	1.000	1948.1	546
				S	3.000	2	508
					6.000	3	636
	Hokoku Iron manufacture Co.	Toyama Factory.	B	U	1.000	1947.12	360
				T	1.500	1948.1	240
				S	2.500	2	234
					5.000	3	297
	Fujikoshi Iron industry Co.	Iwase Factory.	B	U	1.800	1947.12	1.060
				T	1.500	1948.1	102
				S	1.700	2	181
					5.000	3	235
	do	Oglura Factory.	B	U	2.600	1947.12	500
				T		1948.1	16
				S	1.000	2	52
					3.600	3	70
	Chūetsu Electrization Co.	Himi Factory.	B	U	600	1947.12	466
				T	400	1948.1	160
				S	2.600	2	148
					3.600	3	188
	Nippon Soda Co.	Toyama Factory.	B	U	1.500	1947.12	836
				T	1.000	1948.1	348
				S	500	2	330
					3.000	3	437

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		Promised Amount	Allotment	Amount	Consumption limit	Supplemental Allotment	Supplemental consumption limit	Total consumption limit
	U	1.400	1947 12	540.540	486.486			486.486
	T		1948. 1	432.000	432.000	72.208	72208	484.208
	S		2	450.313	450.313			450.313
total		1.400	3	484.208				
	U	6.000	1947 12	3.371.000	2696800			2 696.800
	T		1948. 1	298.620	282.244	60.000	56710	338.954
	S	6.000	2	289.300	289.300			289.300
tot		12.000	3	360.400				
	U	3.000	1947.12	866.400	606.480			606.480
	T	2.000	1948. 1	298.125	265.437	60.000	53439	318.846
	S	5.000	2	280.500	280.500			280.500
	tot	10.000	3	316.250				
	U	2.000	1947.12	1.247.900	873.530			873.530
	T	1.000	1948. 1	546.210	486.303	98.000	87252	573.555
	S	3.000	2	506.200	506.200			506.200
		6.000	3	636.900				
	U	1.000	1947.12	360.600	252.420			252.420
	T	1.500	1948. 1	240.975	214.545	57.000	50748	265.293
	S	2.500	2	234.500	234.500			234.500
		5.000	3	297.750				
	U	1.800	1947.12	1.060.000	742.000			742.000
	T	1.500	1948. 1	302.285	91.067	330.000	115742	206.809
	S	1.700	2	181.050	181.050			181.050
		5.000	3	235.650				
	U	2.600	1947.12	500.000	350.000			350.000
	T		1948. 1	16.000	16.026	82.000	73007	89.033
	S	1.000	2	52.500	52.500	26.930	26930	79.430
		3.600	3	70.000				
	U	600	1947.12	468.720	328.104			328.104
	T	400	1948. 1	160.650	143.030	28.000	24929	167.959
	S	2.600	2	148.000	148.000			148.000
		3.600	3	188.500				
	U	1.500	1947.12	836.000	585.200			585.200
	T	1.000	1948. 1	348.592	310.359	90.000	80129	390.488
	S	500	2	330.350	330.350			330.350
		3.000	3	417.525				

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	Hokkai Electrization Industry Co.	Nōmachi Factory.	C	U	1.000	1947.12		59
				T		1948 1		57
				S	2.000	2		53
				total	3.000	3		64
	Nippon Electro-Metallurgical Co	Daimon Factory.	C	U	800	1947.12		48
				T	800	1948 1		24
				S	1.000	2		25
					2.100	3		29
	Towa Industry Co.	Kureha Factory.	C	U	400	1947.12		25
				T	600	1948 1		62
				S	1.000	2		6
					2.000	3		9
	Asahi Industry Co.		C	U	1.400	1947.12		28
				T		1948 1		1
				S		2		1
					1.400	3		1
Metal Industry.	Mitsukoshi metal industry Co.		B	U	1.000	1947.12		2
				T		1948 1		1
				S		2		1
					1.000	3		1
	Hokuriku light metal industry Co		C	U	380	1947.12		
				T	350	1948 1		3
				S		2		
					730	3		
	Nippon Chemist-manure Co	Toyama Factory	C	U	500	1947.12		5
				T		1948 1		2
				S		2		3
					500	3		
Chemical Industry.	Tōa component-Chamical Industry	Takaoka Factory.	B	U	1.650	1947.12		9
				T	1.650	1948 1		3
				S	4.000	2		5
					7.300	3		6
	Nippon Soda Co.	do	B	U	2.300	1947.12		1,7
				T	.700	1948 1		7
				S	3.000	2		6
					4.300	3		7

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	U	1.000	1947.12	595.000	416.500			416.500
	T		1948 1	578.340	483.194	74.200	61.993	545.187
	S	2.000	2	514.800	514.800			514.800
	totall	3.000	3	647.600				
	U	800	1947.12	442.500	309.750			309.750
	T	300	1948 1	244.500	204.276	48.625	40.625	244.901
	S	1.000	2	230.500	230.500	9.000	9.000	239.500
		2.100	3	297.750				
	U	400	1947.12	238.000	166.600			166.600
	T	600	1948 1	81.931	68.452			68.452
	S	1.000	2	64.350	64.350			64.350
		2.000	3	91.035				
	U	1.400	1947.12	220.000	154.000			154.000
	T		1948 1	33.500	11.279	5.000	4.177	15.456
	S		2	13.000	13.000			13.000
		1.400	3	18.750				

ant	U	1.000	1947.12	239.400	167.580			167.580
	T		1948 1	145.000	129.097	40.000	35.613	164.710
	S		2	128.400	128.400			128.400
		1.000	3	185.000				
	U	380	1947.12	80.000	56.000			56.000
	T	350	1948 1	53.400	26.234	20.000	16.710	42.944
	S		2	42.260	42.260			42.260
		730	3	51.400				
	U	500	1947.12	36.800	25.760			25.760
	T		1948 1	25.700	23.472	20.000	16.710	38.182
	S		2	37.130	37.130			37.130
		500	3	45.700				

	U	1.650	1947.12	963.000	674.100			674.100
	T	1.650	1948 1	592.000	527.073	80.000	71.226	598.297
	S	4.000	2	544.000	544.000			544.000
		7.300	3	672.000				
	U	2.300	1947.12	1,700.000	1190.000			1190.000
	T	.700	1948 1	705.000	627.677	65.000	57.871	685.548
	S	3.000	2	672.500	672.500			672.500
		4.500	3	770.000				

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	Phosphor-chmical Industry Co.		B	U	950	1947.12	4
				T	400	1948 1	4
				S	1.000	2	4
				Tottal	2.350	3	4
	Motogaya Chemical Industry Co.	Toyama Factory.	C	U	700	1947 12	
				T	1.200	1948 1	
				S	400	2	
					2.300	3	
Ship Industry.	Nippon-kai Dock Co.		A (2)	U	500	1947.12	
				T		1948 1	1
				S	500	2	1
					1.000	3	1
Machinical Industry.	Fujikoshi Iron-industry Co.	Toyama Factory.	A (2)	U	5.000	1947.12	1,5
				T		1948 1	8
				S	1.000	2	7
					6.000	3	8
	Tateyama Heavy industry Co.		A (2)	U	1.400	1947.12	2
				T		1948 1	
				S	1.000	2	1
					2.400	3	2
	Takaoka Manufacture Co.		C	U	120	1947.12	
				T	450	1948 1	
				S		2	
					570	3	
	Sato Industry Co.		C	U	500	1947.12	
				T		1948 1	
				S		2	
					500	3	
	Nippon Stainless Co.	Takaoka Factory	C	U	500	1947.12	
				T		1948 1	
				S		2	
					500	3	

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	U	950	1947.12	442.460	309.722				309.722
	T	400	1948 1	482.770	429.821				429.821
	S	1.000	2	401.460	401.460				401.460
Tottal		2.350	3	482.770					
	U	700	1947 12	38.770	27.839	4.300	3.010		30.849
	T	1.200	1948 1	9.000	7.519	20.000	16.710		24.229
	S	400	2	23.000	23.000	480	480		23.480
		2.300	3	29.000					
	U	500	1947.12	205.000	164.000				164.000
	T		1948 1	108.800	102.834	38.109	36.019		136.853
(2)	S	500	2	142.299	142.299				142.299
		1.000	3	186.999					
	U	25.000	1947.12	1550.000	1240000				1240.000
	T		1948 1	831.400	785807	155.000	146.500		932.307
(2)	S	1.000	2	710.150	710150	5.000	5.000		715.150
		6.000	3	886.400		12.000			
	U	1.400	1947.12	252.200	201.760				201.760
	T		1948 1	51.300	48.487	170.000	160.677		209.164
(2)	S	1.000	2	176.600	176.600				176.600
		2.400	3	223.000					
	U	320	1947.12	16.300	11.410				11.410
	T	480	1948 1	32.900	27.487				27.487
	S		2	15.198	15.198				15.198
		590	3	17.100					
	U	500	1947.12	80.800	56.560				56.560
	T		1948 1	45.700	38.382	15.000	12.552		50.934
	S		2	57.000	57.000				57.000
		500	3	64.000					
	U	800	1947.12	31.800	22.260				22.260
	T		1948 1	8.000	6.684	10.000	8.355		15.039
	S		2	9.000	9.000				9.000
		500	3	18.000					

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Pottery Industry.	Nippon Carbon Co.		A (2)	U	3.500	1947.12	1	
				T		1948 1		
				S	4.500	2		
				Total	8.000	3		
	Nippon Artificial graphite Co.	Sasazu Factory	C	U	1.000	1947.12		
				T		1948 1		
				S	800	2		
					1.800	3		
	Nippon Magnesia Co.	Toyama Factory	C	U	500	1947.12		
				T		1948 1		
				S		2		
					500	3		
Chemical fertilizer	Nissan Chemistry Co.	Toyama Factory	A (2)	U	26.000	1947.12	1	
				T	7.000	1948 1	1	
				S	13.000	2	1	
					46.000	3	1	
	Shōwa Electro-industry Co.	Toyama Factory	B	U	8.000	1947.12		
				T	13.000	1948 1		
				S	11.000	2		
					32.000	3		
	Nippon Carbide Co.	Uotsu Factory	B	U	10.400	1947.12		
				T	11.700	1948 1		
				S	7.700	2		
					29.800	3		
	Chūetsu Electro industry Co.	Namerikawa Factory	B	U	5.500	1947.12		
				T	3.300	1948 1		
				S	7.100	2		
					15.900	3		
	Hokkai Electrization Co.	Fushiki Factory	B	U	3.800	1947.12		
				T		1948 1		
				S	6.200	2		
					9.900	3		
	Nissan Chemical industry Co.	Fushiki Factory	A (2)	U	360	1947.12		
				T		1948 1		
				S	600	2		
					960	3		

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	U	3-500	1947-12	1650-000	1320 000			1320·000
	T		1948 1	540·000	510-387	135 ·000	127·68	637·984
(2)	S	4-500	2	498·000	498·000			498·000
	Tottal	8·000	3	654·000				
	U	1·000	1947·12	220·000	154·000			154 .000
	T		1948 1	171 ·400	143 .202	18 ·600	15 ·540	158 .742
	S	600	2	150·000	150·000			150 .000
		1·800	3	187·000				
	U	500	1947·12	127·000	88.900			88 .900
	T		1948 1	50·800	42 45	10 ·000	8·355	50 .798
	S		2	30·060	30.060			30 .060
		500	3	50·800				
	U	26·000	1947·12	18366800	14693440			14693440
	T	7·000	1948 1	14604000	13803135			13803135
(2)	S	13·000	2	16671000	16671000			16671000
		46·000	3	14604000				
	U	8·000	1947·12	4880000	3416000			3416000
	T	13·000	1948 1	2440000	2172387	300·000	267·087	2439484
	S	11·000	2	1900000	1900000			1900000
		32·000	3	2440000				
	U	10·400	1947·12	7520000	5264000			5264000
	T	11·700	1948 1	5555000	4945742			4945742
	S	7·700	2	3050000	3050000			3050000
		29·800	3	4055000				
	U	3·500	1947·12	2100000	1470000			1470000
	T	3·300	1948 1	1000000	890323			890323
	S	7·100	2	616000	616000	12·400	12·400	628400
		13·900	3	1000000				
	U	5·200	1947·12	2550000	1785000			1785000
	T		1948 1	969928	863549	94·900	84·492	948041
	S	5·200	2	805160	805160	30·000	30·000	835160
		9·000	3	1154920				
	U	360	1947·12	93500	74000			74 ·000
(2)	T		1948 1	91·000	86010			86 ·010
	S	600	2	86000	86000			86 ·000
		960	3	91000				

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Fibre Industry	Daiken Industry Co.	Nyuzen Factory	A (2)		U	2.500	1947.12	87
					T		1948 1	78
					S	1.600	2	27
					Tot	4.000	3	
	Shikishima Spining Co.	Sasazu Factory	A (2)		U	2.200	1947.12	1.05
					T		1948 1	54
					S	1.600	2	23
						3.800	3	
	Daiken Industry Co.	Shogawa Factory	A (2)		U	500	1947.12	100
					T		1948 1	10
					S	2.400	2	11
						2.900	3	
	Nisshin Spining Co.	Toyama Factory	A (2)		U	1.300	1947.12	27
					T		1948 1	42
					S	700	2	17
						2.000	3	
	Daiken Industry Co.	Kureha Factory	A (2)		U	2.000	1947.12	62
					T		1948 1	61
					S		2	24
						2.000	3	
	Daiken Industry Co.	Inami Factory	A (2)		U	1.700	1947.12	50
					T		1948 1	39
					S		2	16
						1.700	3	
	Nippon Fibre Co.	Toyama Factory	A (2)		U	650	1947.12	19
					T		1948 1	7
					S	500	2	11
						1.150	3	
	Nippon Carpet Manufacture Co.	the 2nd Factory	A (2) grant		U	400	1947.12	
					T		1948 1	
					S	400	2	
						800	3	
	Nisshi Spining Co.	Takaoka Factory	A (2)		U	700	1947.12	14
					T		1948 1	14
					S		2	4
						700	3	
	Kanegabuchi Spining Co.	Takaoka Factory	B		U	550	1947.12	10
					T		1948 1	5
					S		2	2
						550	3	

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	U	2.500	1947-12	874,740	699 792			699,792
	T		1948 1	789 .335	745 .841			745 .841
	S	1 500	2	273 .345	273 .345			273 .345
	Tot	1.000	3					
	U	2.200	1947-12	1 .052 .000	841 .600			841 .600
	T		1948 1	545 .406	535 .497			535 .497
	S	1 .600	2	234 .007	234 .007			234 .007
		3.800	3					
	U	500	1947-12	360 .000	144 000	32 .400	25 .920	169 .920
	T		1948 1	103 .238	97 .558	75 .000	70 .887	168 .445
	S	2.400	2	115 .580	115 .580			115 .580
		2.900	3					
	U	1.300	1947-12	270 .620	216 .496			216 .496
	T		1948 1	429 .812	406 .242			406 .242
	S	700	2	173 .460	173 .460			173 .460
		2.000	3					
	U	2.000	1947-12	623 .000	498 .400			498 .400
	T		1946 1	610 .202	576 .739			576 .739
	S		2	248 .510	248 .510			248 .510
		2.000	3					
	U	1.700	1947-12	502 .000	401 .600			401 .600
	T		1948 1	390 .930	369 .492			369 .492
	S		2	159 .234	159 .234			159 .234
		1.700	3					
	U	650	1947-12	191 .000	152 .800			152 .800
	T		1948 1	70 .000	66 .161	75 .000	70 .887	137 .048
	S	500	2	112 .500	112 .500			112 .500
		1.150	3					
	U	400	1947-12	4 .280	3 .424			3 .424
	T		1948 1	4 .280	4 .045			4 .045
	S	400	2	4 .500	4 .500			4 .500
		800	3					
	U	700	1947-12	146 .700	337 .360			337 .360
	T		1948 1	146 .700	138 .655			138 .655
	S		2	42 .530	42 .530			42 .530
		700	3					
	U	550	1947-12	193 .000	135 .100			135 .100
	T		1948 1	38 .000	33 .832	80 .000	71 .226	105 .058
	S		2	94 .000	94 .000			94 .000
		550	3					