

Machine  
actory

機械工場  
機械配置變更圖

備考

此圖係根據  
一九四九年  
十二月五日  
之資料繪成  
其內容與  
實際情形  
略有出入  
特此聲明

註  
工場係由  
四國公司  
所屬之  
機械部  
所屬之  
工場

Make Note on  
Head table (Repairation Machine 16, 23, 42, 10, 7, 8)  
Design in the working Factory.

12. 7. 1949



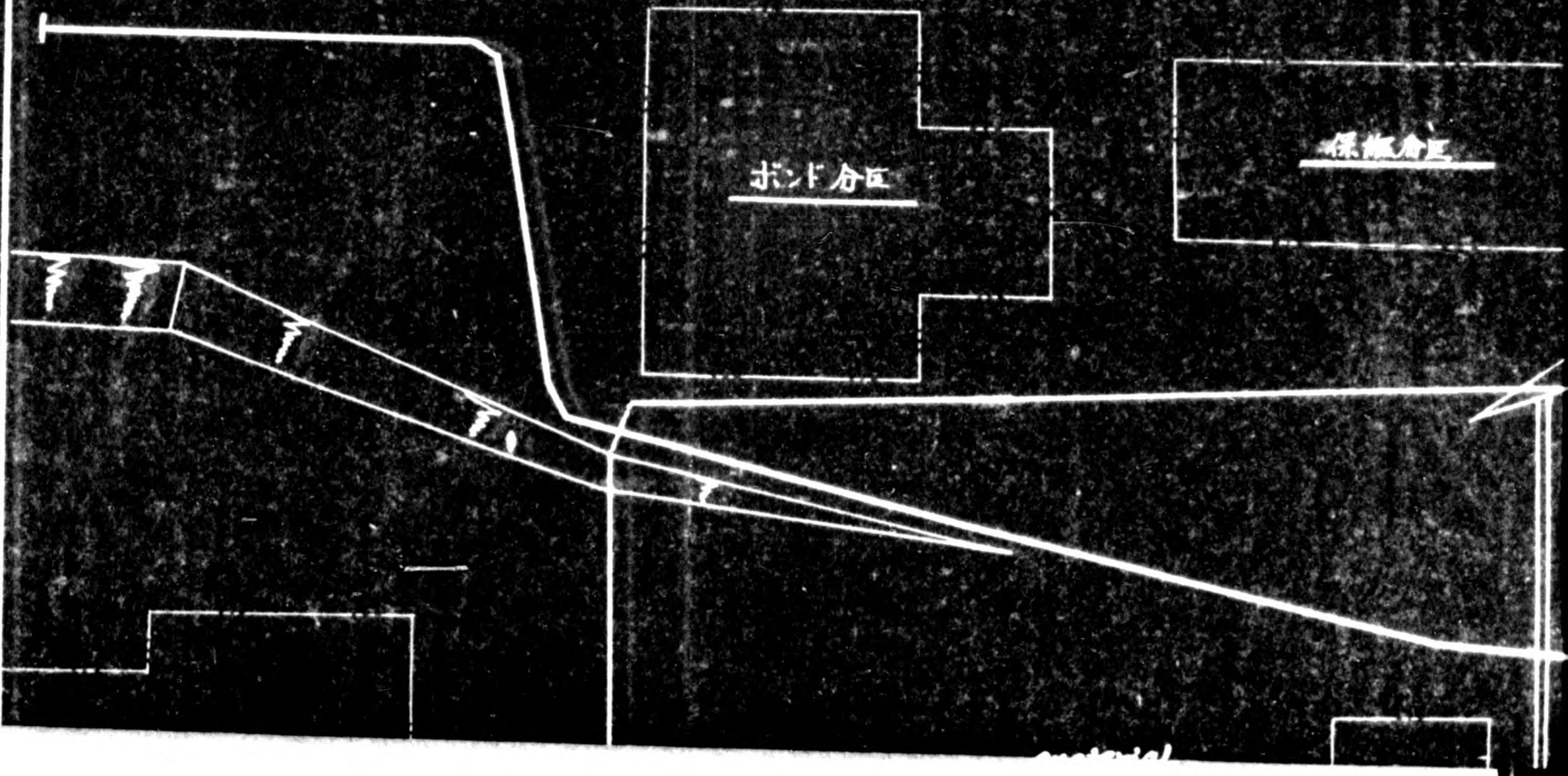
Engine  
技術

For Osaka  
大阪方

Passenger Platform  
乗客ホーム

ボイラ分岐

保線倉庫



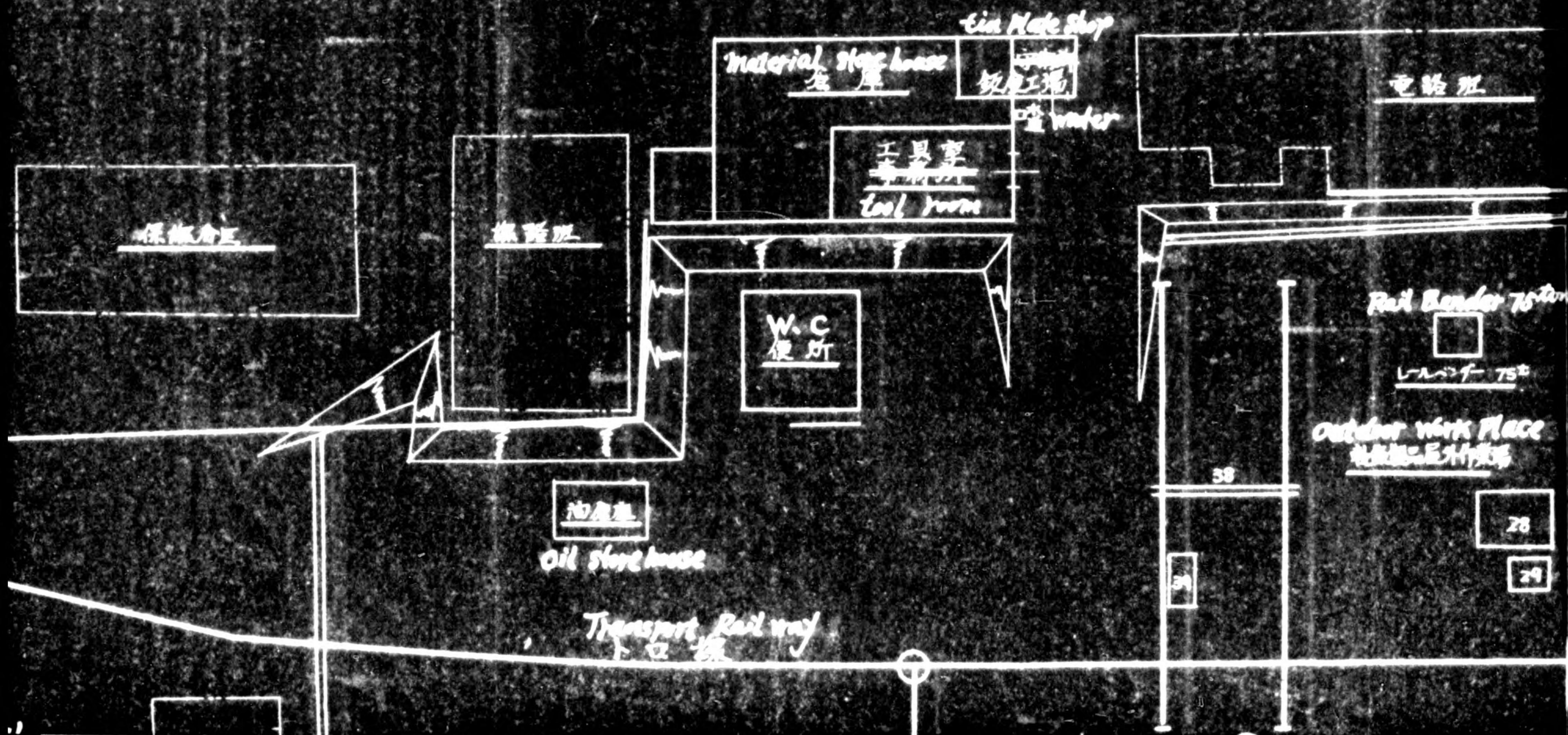


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Engineering Iron Works Nabari Factory Plan  
 技術部鍛工場 名張工場平面圖

Scale

Track Road  
 本線路

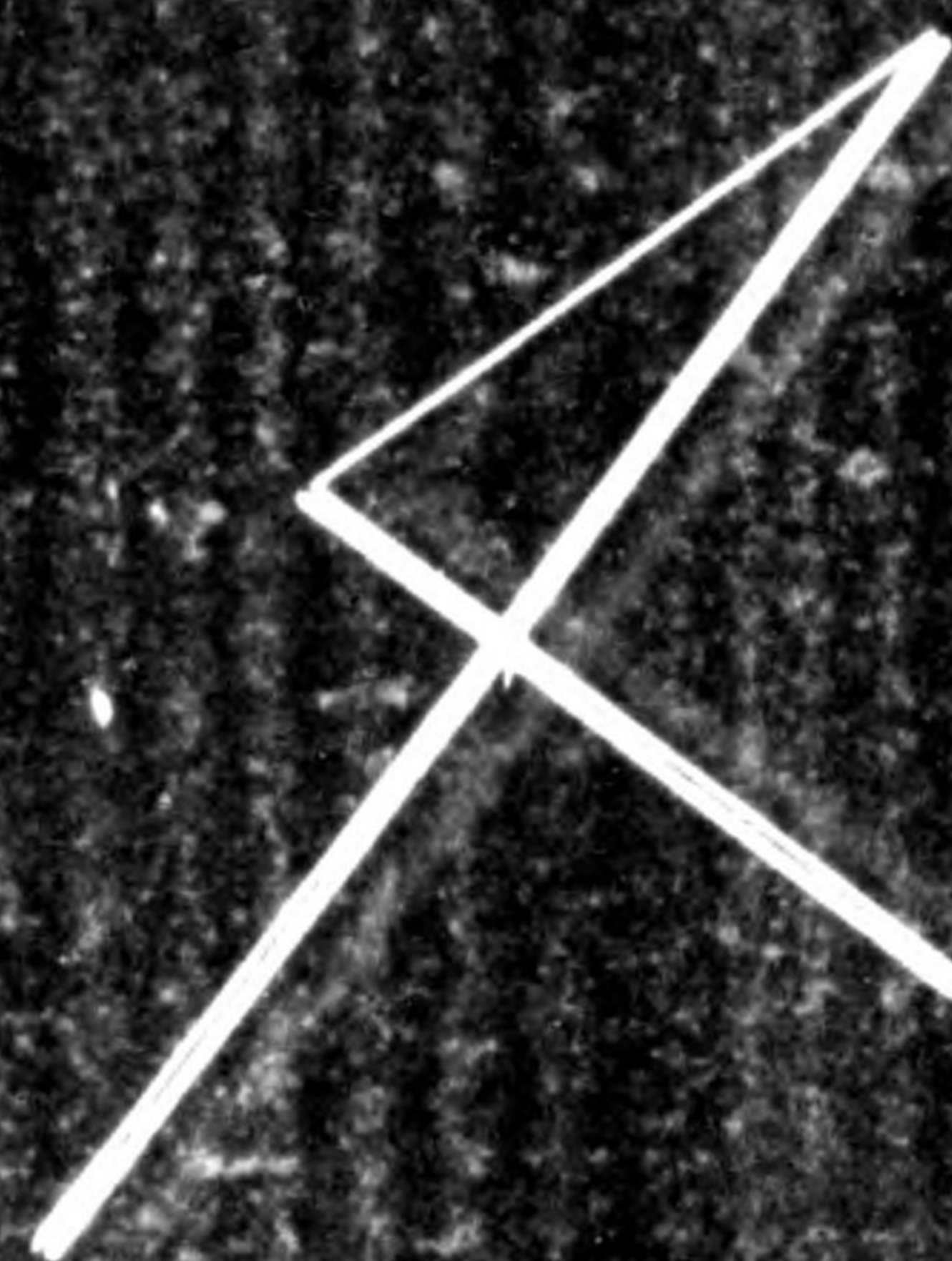




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Plan  
平面

Scale 1/200



For Yamada  
山田氏

電線架

製材所

Red Border 762

LAND 75°

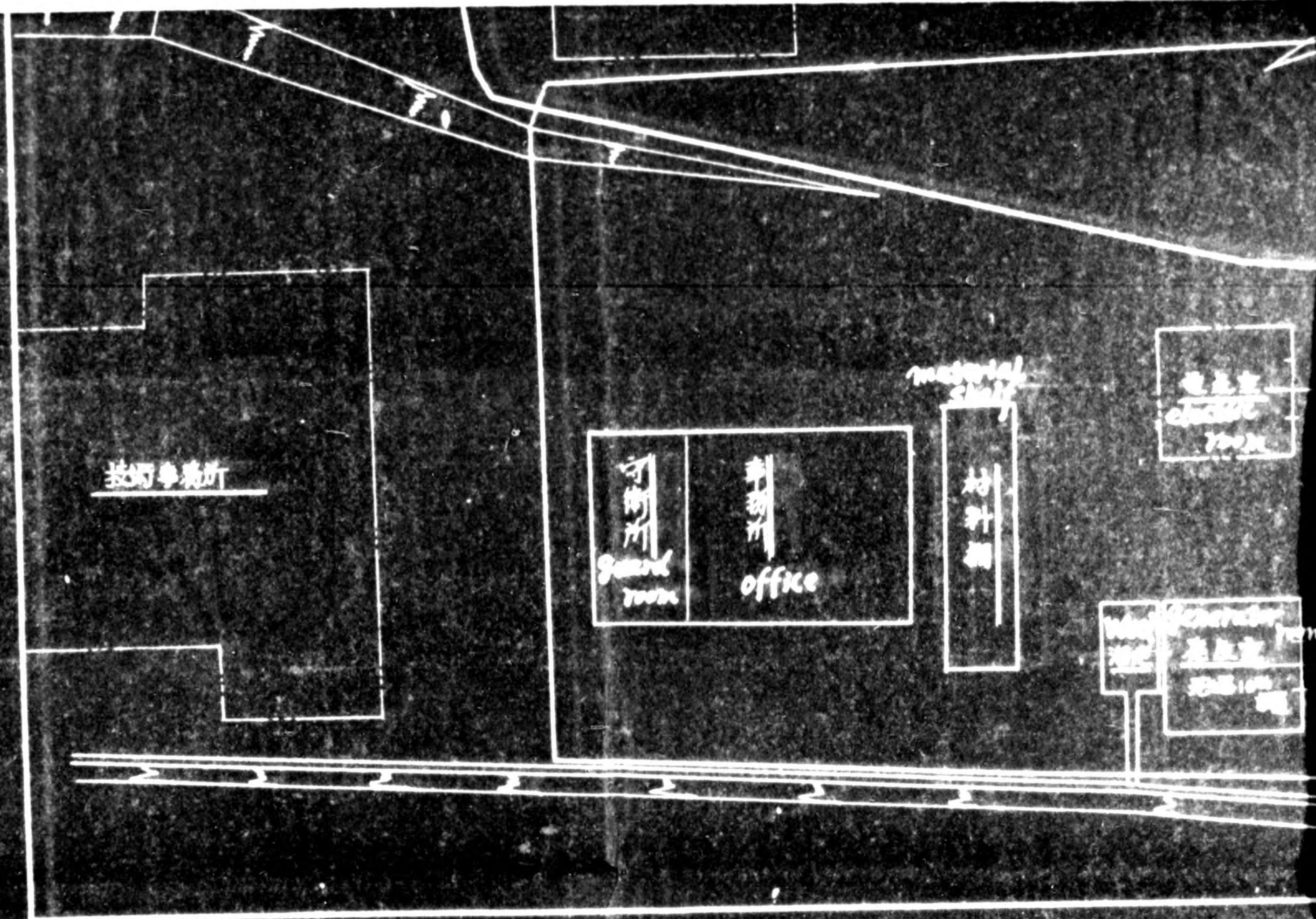
Outdoor wire place  
屋外配線

38





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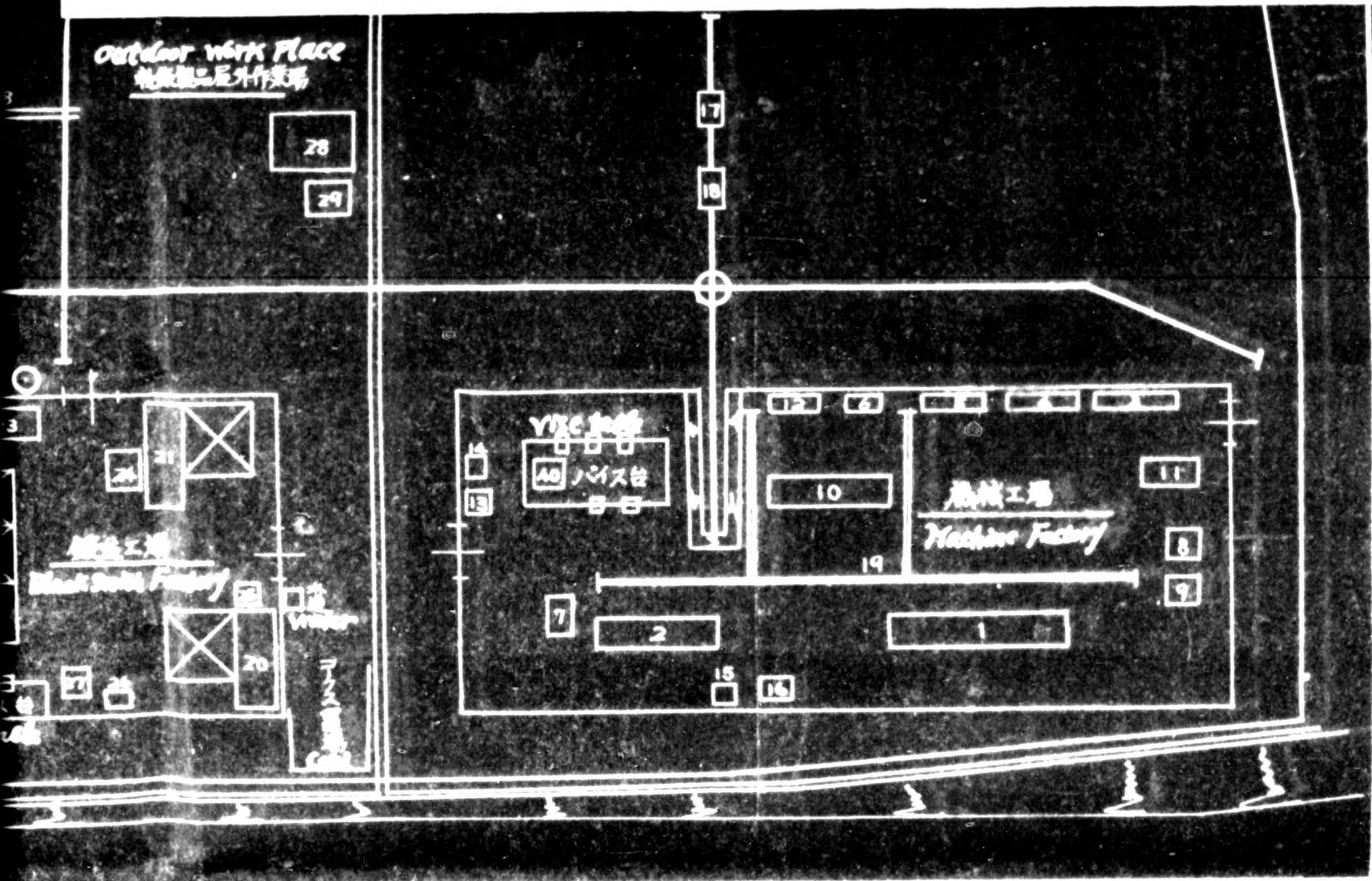


工場	機械組立工場												
機名	1	2	3	4	5	6	7	8	9	10	11	12	13
機名	平削盤	平削盤	旋盤	"	"	螺子切盤	直立ホム盤	横フライス盤	堅フライス盤	特殊ホム盤	形削盤	研削盤	ベンチホム盤
所率動力	七五HP	七五HP				三HP				〇五HP	三HP	三HP	三HP
機寸	一〇尺	八尺	一〇尺	八尺	六尺	裕体	一四尺						





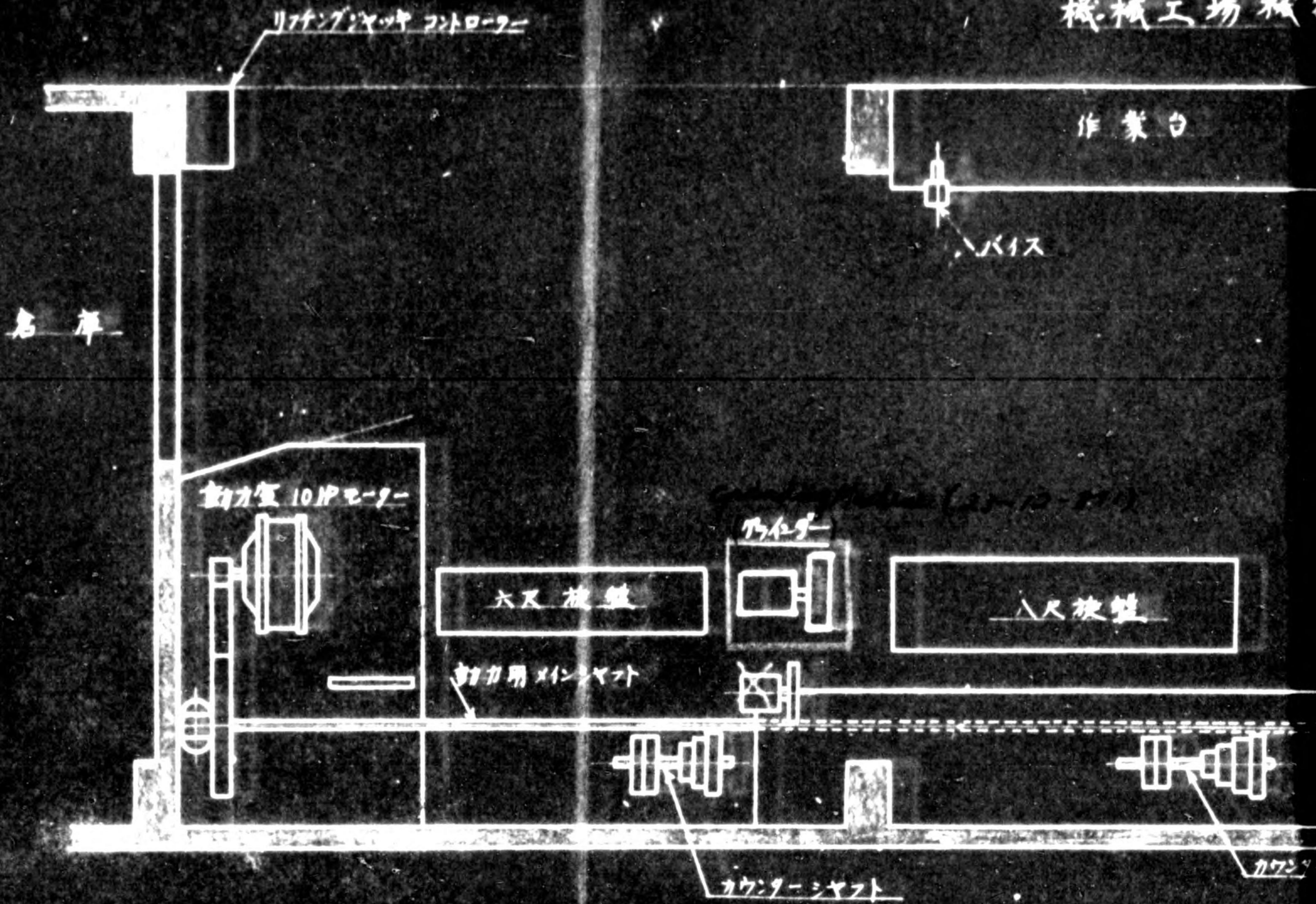




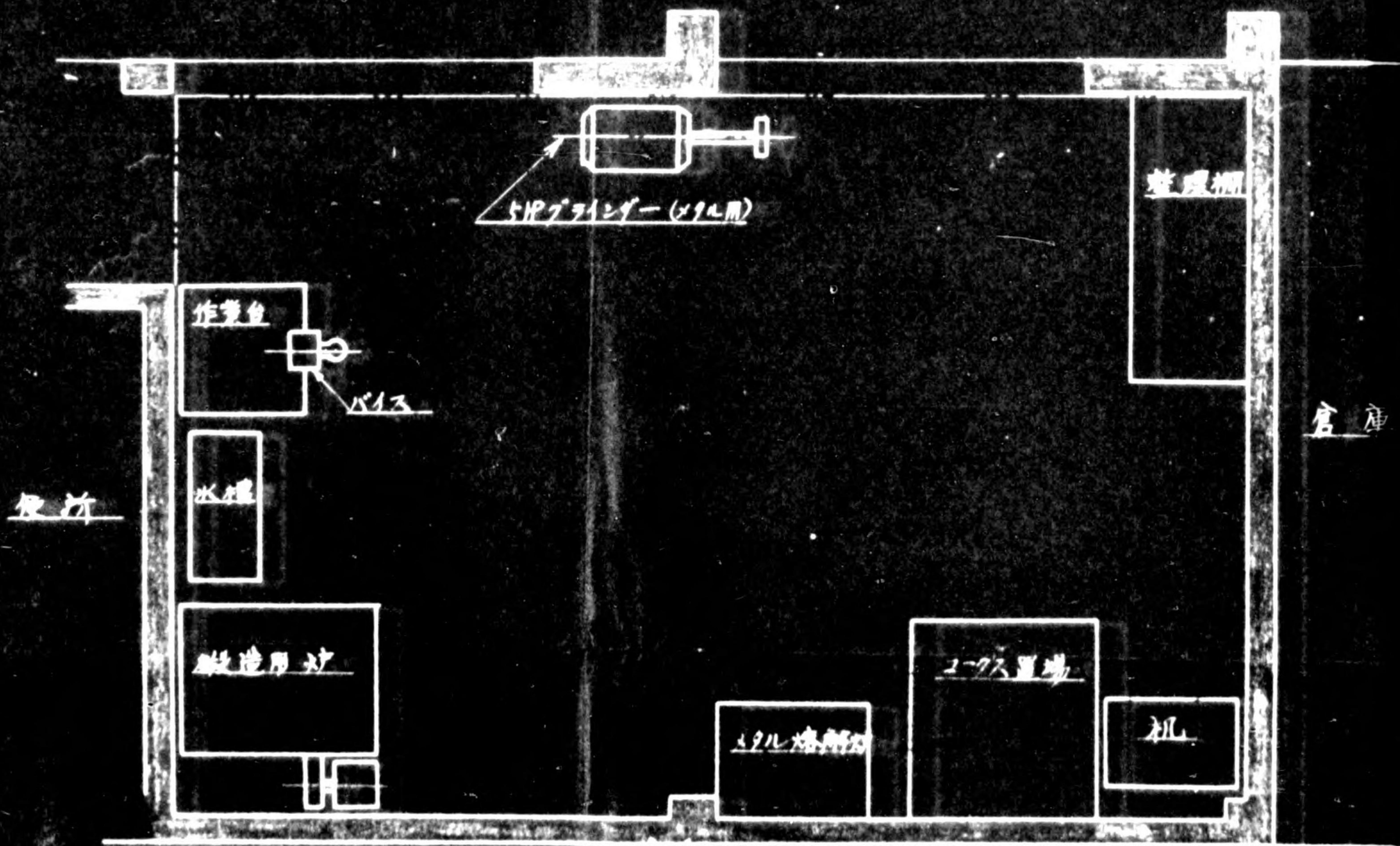
熔接工場												備考
27	28	29	30	31	32	33	34	35	36	37	38	
直立水塔	定機	火床	絞鉄台	直前溶接機	交流溶接機		軌條研削機	尖形溶接機	焼地爐	天井起重機	起重機	
				10 kW	10 kW							
										三	三	



機械工場機器

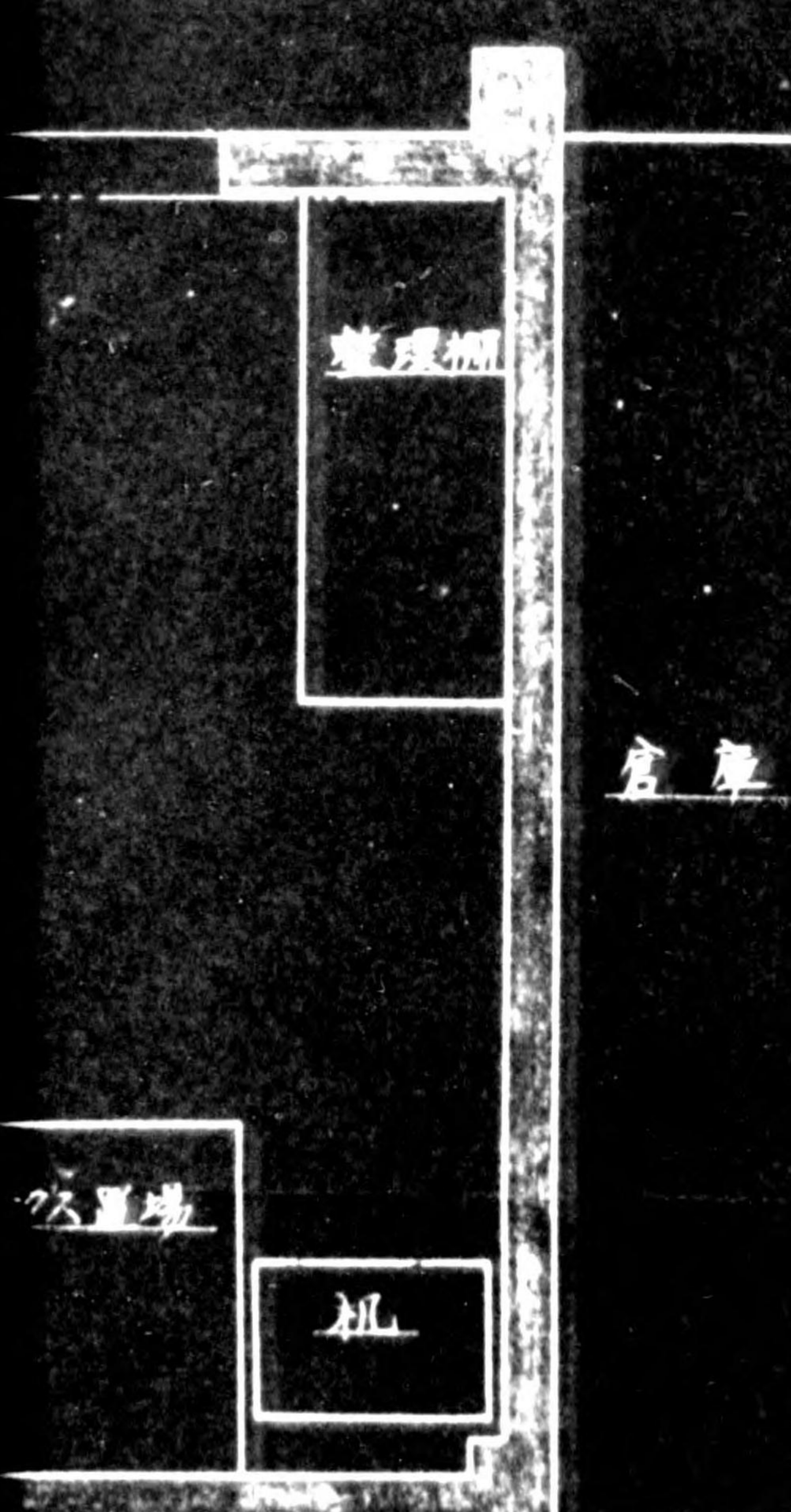
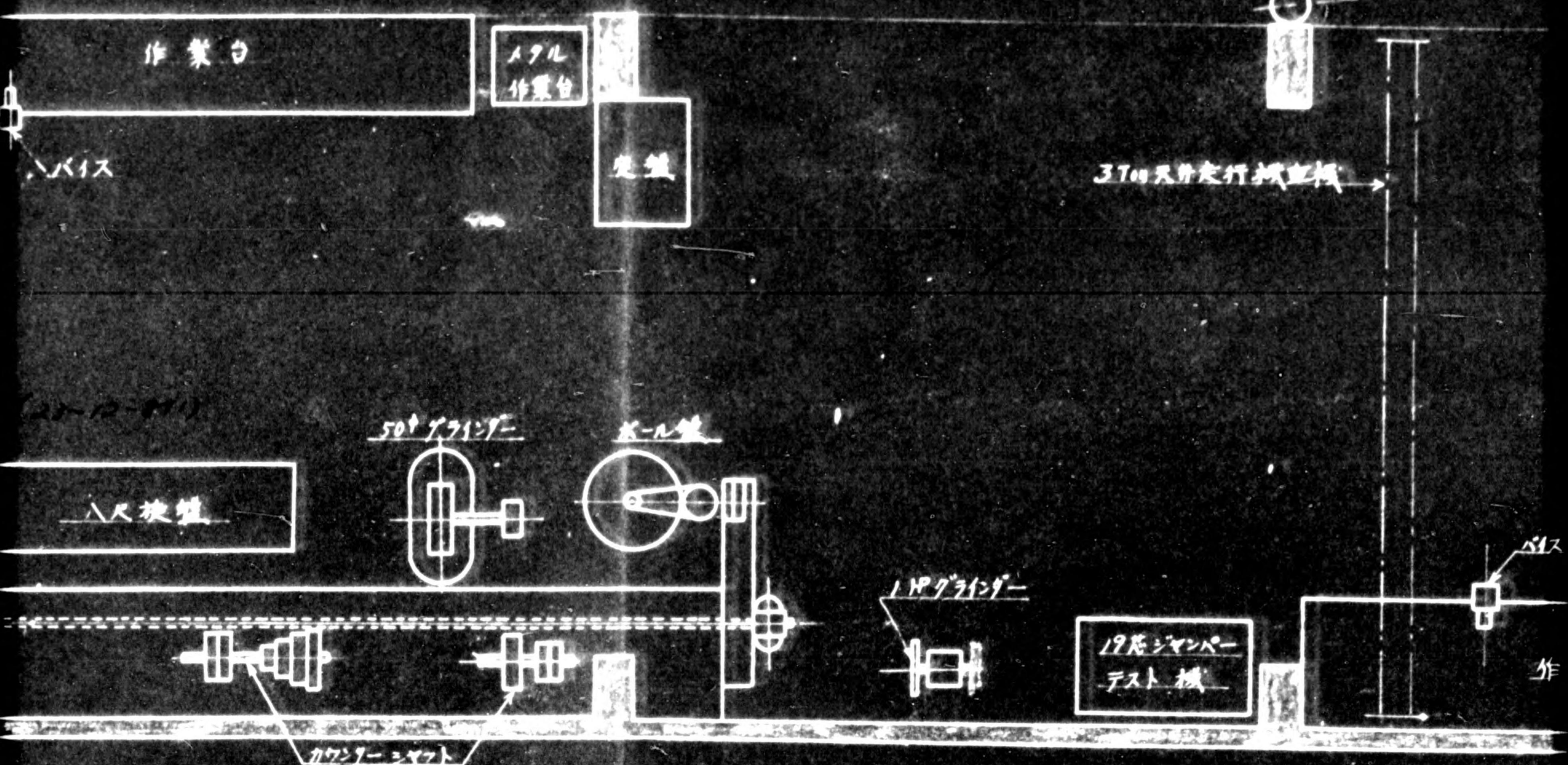


鍛工場機器配置図





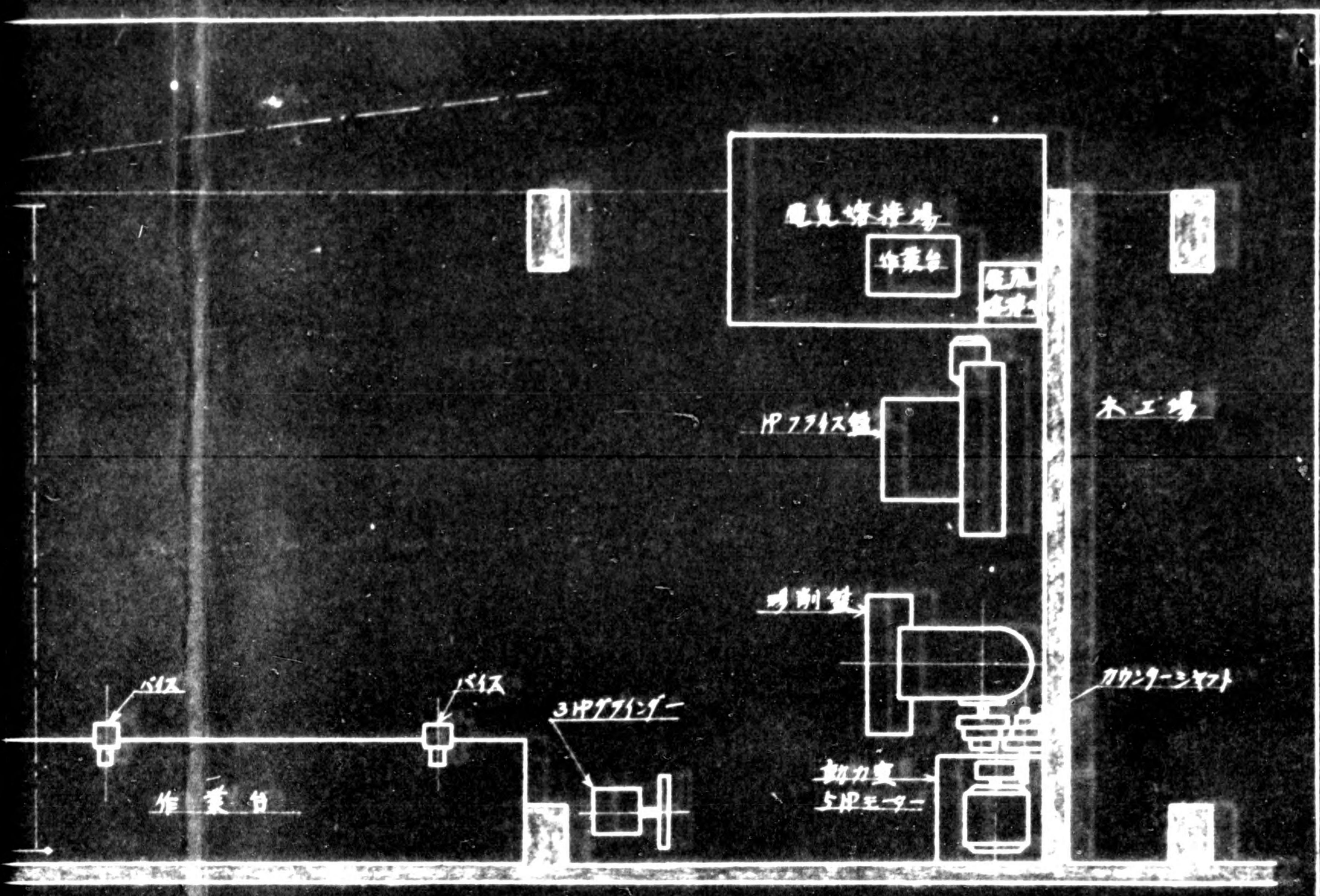
機械工場機器配置図











Handwritten notes in Japanese, including the name '明屋検査区' (Akiya Inspection Area) and '機器配置図' (Machine Configuration Diagram).

図号	1/50	昭和24年5月
検査区	明屋検査区	
名称	機器配置図	
製図者	[不明]	
検査者	[不明]	
備考	[不明]	



Application for Authorized Use and  
of Move of the Reparation Equipment

To : Minister of Finance  
 From : Kotaro Sakakibara  
 Representative, Sakakibara Iron Works Limited.  
 Sakakibara Tekkosho.  
 No. 1484, Oaza, Toba, Toba-cho, Shima-gun,  
 Mie Ken.  
 Date : 10 December 1949

1. Name of Plant. (Code No.)

Tsu Naval Arsenal (23-12)  
 Kusu Factory, Nagoya Army Arsenal (23-9)

2. Location of plant.

Komori, Tsu city, Mie Pref.  
 Kuzu-cho, Mie-gun, Mie Pref.

3. Name of products planned.

Internal combustion engine and Diesel engine.

4. Experience of the production planned.

We are engaged in the manufacture of Internal combustion engine mainly and can be manufactured 15 HP-115 HP capacity.

5. 1939-1949 production

<u>year</u>	<u>Total productive capacity</u>	<u>percentage</u>
1939	240 HP	17 %
1940	360 HP	25 %
1941	720 HP	50 %
1942	1260 HP	87 %
1943	1800 HP	125 %
1944	1440 HP	100 %
1945	840 HP	58 %
1946	360 HP	25 %
1947	1080 HP	75 %
1948	1440 HP	100 %
1949	1320 HP	92 %

(Average total 12,000,000 yen for 100 % in 1948.)



6. Period of desired permission.

from the date authorized to Reparation renewal.

7. Scale of the production planned by month for period on this Application.

The present results of production

Average...120 HP per month  
 repair.....1500 HP "

After authorized use of Reparation machine, the process for working up and erecting by precision of the work shall be increased and saved. Accordingly the production for Internal combustion engine increase about 30 %, and it can be served the productive capacity 230 HP with Diesel engine. Generally, the present productive capacity increase over 30 %.

8. Name and Location to which products are to be Delivered.

All district in Japan.

9. Scale of proposed change in physical facilities.

Want of precision for the existing old equipment in our factory decrease the quality of products. The consumption of Fuel oil and machine oil for Internal combustion engine appear the large quantity on the low quality of the products, these loss gives the unconsiderable situations in present Japan, therefore the progress of productive technique can be save fuel oil and machine oil about 30 %, especially, manufacturing of Diesel engines. That is, changing the manufacture of Diesel engines from Internal combustion engines, necessary for the reconstruction of Japanese industry. At present, the proper Machine Tools can't be handed in market, and the manufactured in great cities had exhausted by war damage, therefore scale of the existing equipment in our factory after authorized use of Reparation machines is as the follow.

Name of Machine	Capacity	Existing Machine		Reparation Machine	Quantity to be changed	Plan of use
		operation	Non			
Lathe	6 ft.	11	2	0	0	11
Lathe	8 ft.	7	1	5	1	11
Drilling machine		4	0	3	2	5
Milling machine		2	0	1	1	2
Grinding machine	Universal	0	0	1	0	1
Boring machine	9 cm	0	0	1	0	1
Tool-Grinding machine		1	0	1	0	2
Sawing Machine	6 inch.	1	0	1	0	2
Slotter	8 ft.	0	0	1	0	1
Flexible shaft-grinding machine	2 HP	0	0	1	0	1



Name of Machine	Capacity	Existing Machine		Reparation Machine	Quantity to be changed	Plan of use
		Operation	Non			
Pla	8 ft.	1	1	0	0	1
Shaper	24 inch.	2	1	0	0	2
<b>Total</b>		<u>29</u>	<u>5</u>	<u>15</u>	<u>4</u>	<u>40</u>

Remarks:

(1) Machine Tools to be changed, are no gave for use owing to the decrease of precision.

(2) The quantity of existing machine tools indicates 52 % for machiass planned and 44 % for all equipment.

10. Intended expense for Authorized Use.

A. Materials, be required

Cement .....3.5 ton ¥ 20,000  
 Small Stick steel ....0.5 ton ¥ 8,500  
 Cast iron .....1.0 ton ¥ 9,000  
 Transformer &  
 others .....¥ 400,000

B. Labor

Forwarding expenses.....¥ 280,000  
 Changing electric device.....¥ 150,000

Total ¥ 867,500

11. Pla and Location to continue the production after Reparation removal.

In the event of Reparation removal, we are impossible to be continued the production because it is hard to be handed those machine.

*K. Sakakibara*

KOTARO SAKAKIBARA  
 Representative,  
 Sakakibara Tekkosho  
 (Sakakibara Iron Works.)



## List of Facilities for Application

Code No. 23-9, 23-12

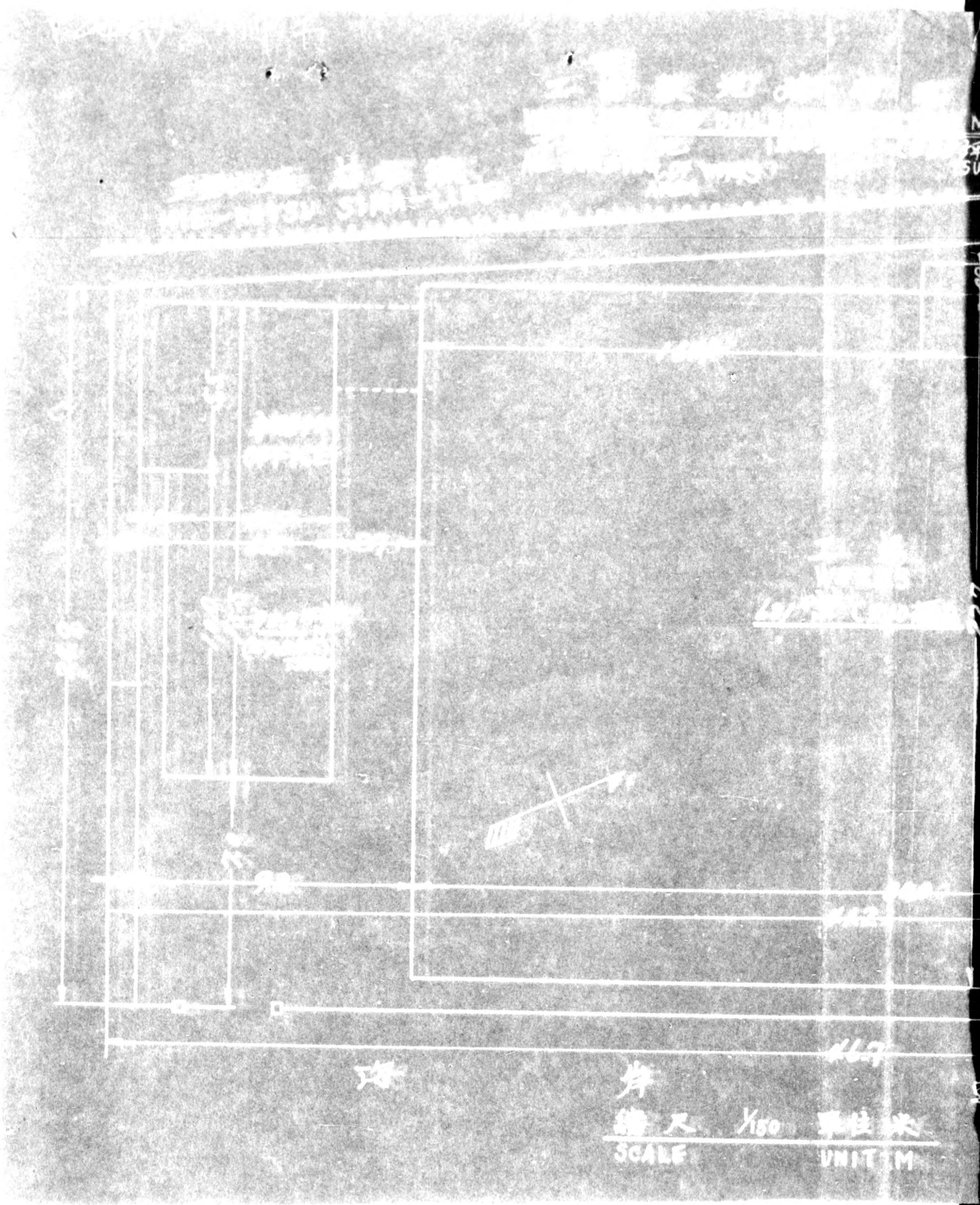
Name of Plant. Kusu Factory, Nagoya Army Arsenal  
Tsu Naval ArsenalAddress of Plant. Kusu-cho, Mie-gun, Mie-ken.  
Komori, Tsu-shi, Mie-ken.

## 1. Machinery

Inv. No.	Name of Machinery	Brief Specifications	Qt.	Remarks
23-12-186	Lathe	16 Ft.	1	
" 528	Vertical Milling Machine	No.3 type	1	
" 150	Lathe	8 Ft.	1	
" 180	Lathe	14 Ft.	1	
" 710	Radial-Drilling Machine	125 cm.	1	
" 643	Shaper	8 inch.	1	
" 806	Tool-Grinding Machine	2 HP	1	
" 759	Universal Grinding Machine	Swing 38 mm	1	
" 678	Vertical-Drilling Machine	Drilling capacity 35 mm	1	
" 1230	Hardness Tester	Brinell	1	
" 630	Sawing Machine	15 cm.	1	
" 1409	Flexible shaft-Grinding Machine	2 HP	1	
" 1252	Drilling Machine	Upright-small type	1	
" 2152	Surface Plate	2.5 x 0.6 x 0.15m	1	
" 2529	Surface Plate	2.0 x 1.0 x 0.19m	1	
23-9-1023	Lathe-Gap	8 Ft.	1	
" 1061	Lathe-Gap	14 Ft.	1	
" 106D	Boring Machine	9 cm	1	
			Total	
			18	



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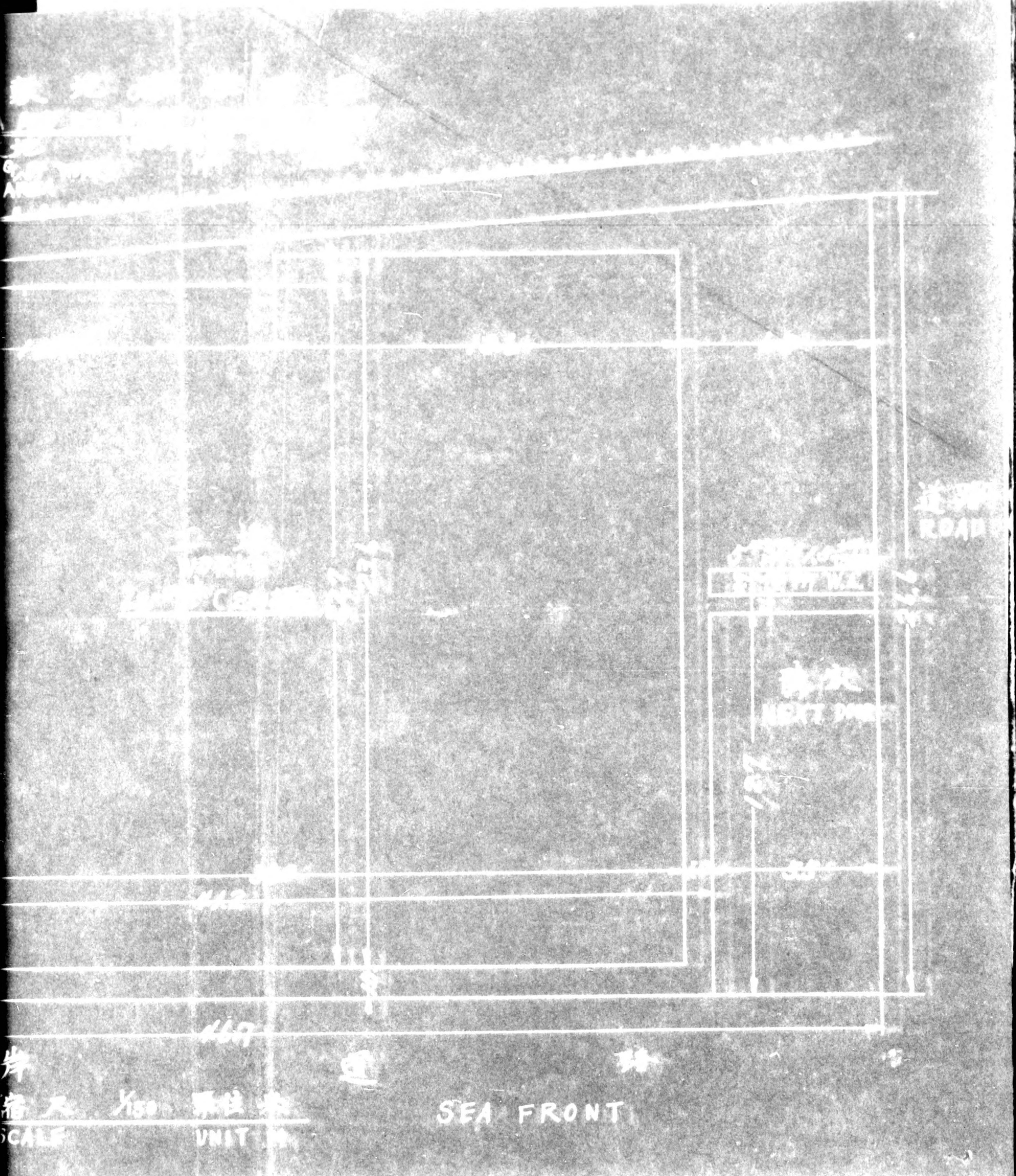
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 SCALE UNIT M

SEA FRONT

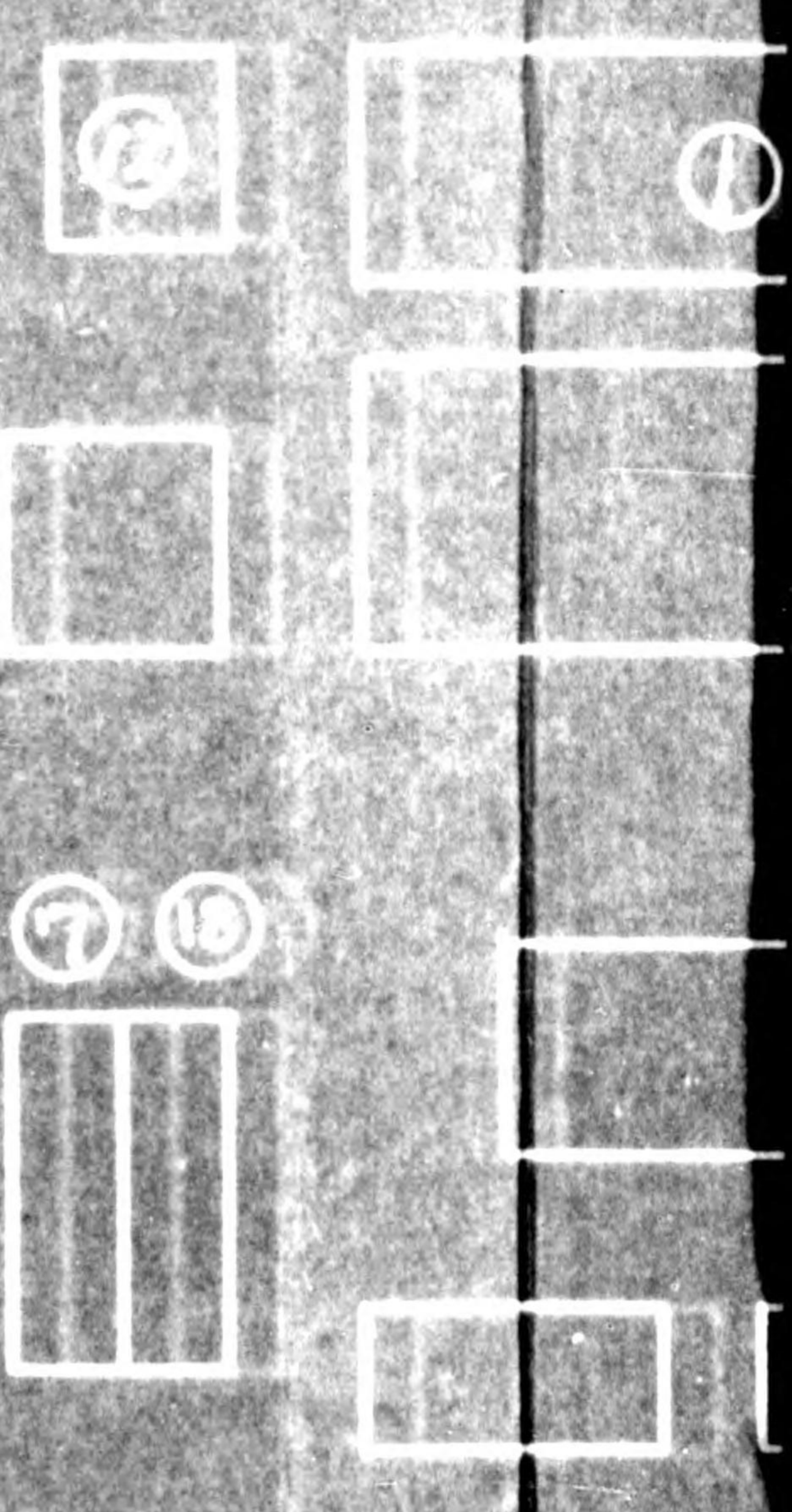


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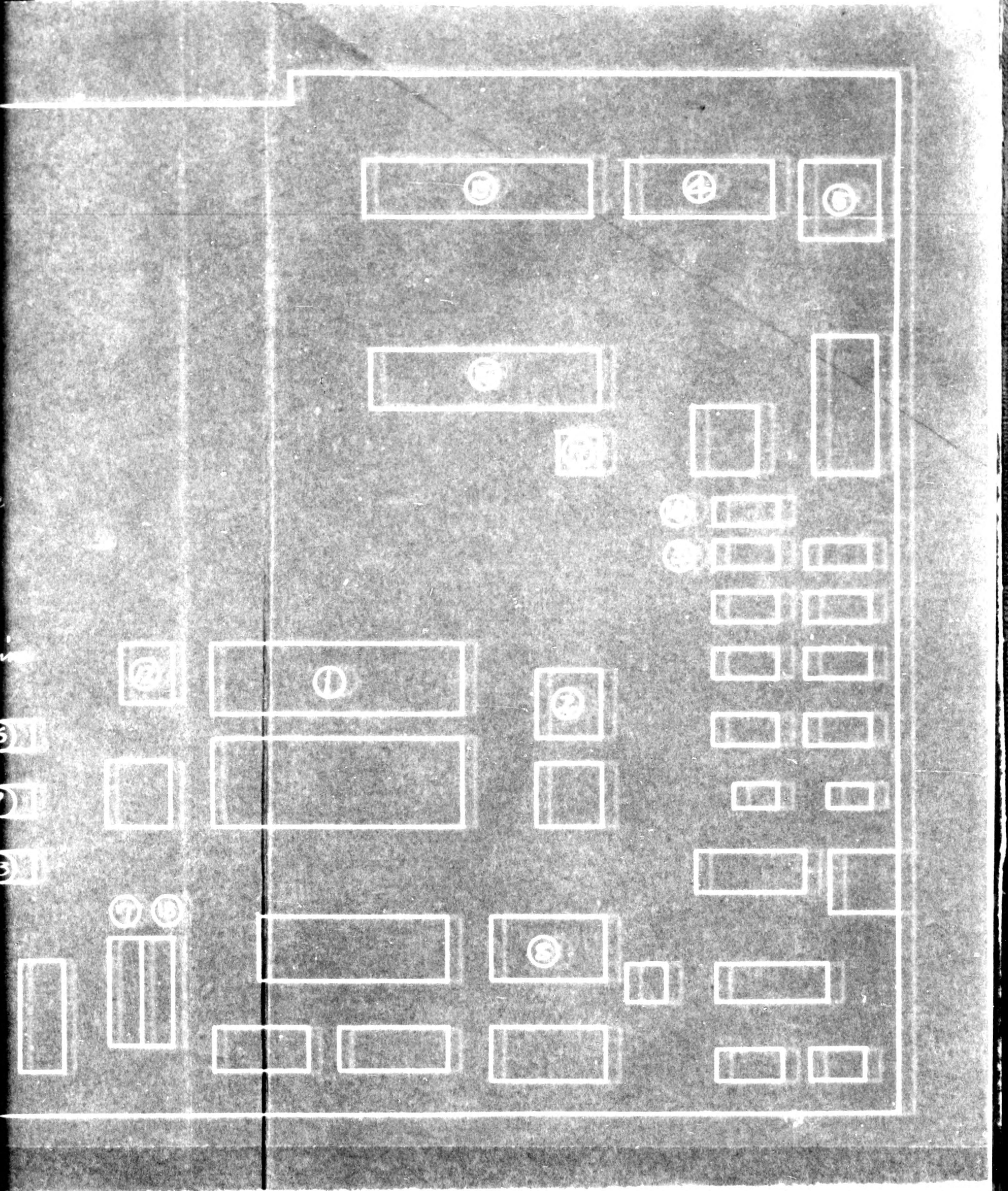
平清圖 plane

機械名称 Manufacturing

- ① 手動機 lathe
- ② 垂直式 垂直鑽床 vertical drilling machine
- ③ 手動機 lathe
- ④ " "
- ⑤ 手動式 手動鑽床 hand drilling machine
- ⑥ 手動機 lathe
- ⑦ 手動式 手動鑽床 hand drilling machine
- ⑧ 手動式 手動鑽床 hand drilling machine
- ⑨ 手動式 手動鑽床 hand drilling machine
- ⑩ 手動式 手動鑽床 hand drilling machine
- ⑪ 手動式 手動鑽床 hand drilling machine
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- ⑬ 手動式 手動鑽床 hand drilling machine
- ⑭ 手動式 手動鑽床 hand drilling machine
- ⑮ 手動式 手動鑽床 hand drilling machine
- ⑯ 手動式 手動鑽床 hand drilling machine
- ⑰ 手動式 手動鑽床 hand drilling machine
- ⑱ 手動式 手動鑽床 hand drilling machine
- ⑲ 手動式 手動鑽床 hand drilling machine
- ⑳ 手動式 手動鑽床 hand drilling machine









Application for Authorized Use and  
or Move of the Reparation Equipment

To: Minister of Finance

From: Sango Ando  
Representative, Ando Geiyusho  
(Ando vegetable Oil Manufactory Ltd.)  
No. 10, Chitose-cho, Yokkaichi city, Mie Pref.

Date: December 10 1949

1. Name of plant. (Code No.)

Kusu Factory, Nagoya Army Arsenal	(23-9)
Suzuki Naval Arsenal	(23-10A)
2nd Naval Air Base	(23-11)
Tsu Naval Arsenal	(23-12)
2nd Naval Fuel Depot	(23-13)

2. Location of plant.

Kusu-cho, Mie-gun, Mie Pref.  
Shono-cho, Suzuka city, Mie Pref.  
Shono-cho, Suzuka city, Mie Pref.  
Komori, Tsu city, Mie Pref.  
Shiohama-cho, Yokkaichi city, Mie Pref.

3. Name of products planned.

- A. Vegetable oil (Copia, Coconuts, Linseeds, Peanuts,  
Rapes Beans)  
B. The manufacture and repair of Expeller,  
Apperutus (parts)

4. Experience of the production planned.

We have been engaging in the production of vegetable oil, since the present President Director had commenced, it is for 30 years long, year by year, due to the demand, of which had established this joint stock compny on 1934 year and constructed the ractory at present place on 1935 year with Expllers "Anderson type" 17 machines. The results of production before the war was as the follow.

Country delivered for export, U.S.A. England. Netherland.

Australia, Germany.

Name of products.

Rapes, Peanut, Beens, and  
Gingelly oil.

Quantity of products.

1935	1,280 ton	1941	480 ton
1936	1,409	1942	246
1937	542	1943	530
1938	979	1944	630
1939	2,500		
1940	188		



In the near future, we are planning to concentrate a point of the production for export which is the important matter in the present Japanese economy. Our present productive capacity is occupying the position of 90 % in Tokai district.

5. 1939-1939 production.

<u>year</u>	<u>Raw materials</u>	<u>Output</u>	<u>ares</u>
1939	0,468 kg	2954 kg	4894 kg
1940	7,664	2,188	4,956
1941	9,732	3,499	5,868
1942	4,373	1,302	2,731
1943	2,532	751	1,577
1944	928	246	
1945	1,725	324	458
1946	620	80	448
1947	849	284	493
1948	2,175	1,058	996
1949	3,015	1,170	1,747

6. Period of desired permission.

From the date authorized to Reparation removal.

7. Scale of the production planned by month for period on this Application.

In the condition of the present production, it is hard to indicate the figure, but the improvement of Expellers and Motor driven, the completion of Repair shop will be expected over 20 % increas.

8. Name and location to which products are to be delivered.

The Oil stuff Distribution Kodan.

9. Scale of proposed change in physical facilities. to be

Machine Tools and Motors listed will be required to be used, for which Repair shop must be expand equipment for Oil pressing machines have needs the changing of parts and its object is to be repaired the existing equipment in our private repair shop, and also is to be operated expellers with motor driven. However we are facing the difficult condition. for Handing these machine at present. After authorized use, the rationalize of production will be realized and be served the reconstruction of Japanese economy.

10. Intended expense for authorized use.

A. Materials, be required	¥ 157,314
B. Labor	¥ 121,952



11. Plan and Location to continue the production after  
Reparation removal.

In the event of Reparation removal, we will  
prepare for no in the event of supention for the production.

*S. Ando*

SANGO ANDO

Representative,  
Ando Seiyushe.

(Ando Vegetable Oil Manufactory Ltd.)



## List of Facilities for Application

Code No. 23-9, 23-11, 23-12, 23-13,  
 Name of Plant. Kusu Factory, Nagoya Army Arsenal.  
 2nd Naval Air Base.  
 Tsu Naval Arsenal.  
 2nd Naval Fuel Depot.  
 Address of Plant. Kusu-cho, Mie-gun, Mie Pref.  
 Shono-cho, Suzuka city, Mie Pref.  
 Komori, Tsu city, Mie Pref.  
 Shichama-cho, Yokkaichi city, Mie Pref.

Inv. No.	Name of Machine	Brief Specifications	Quantity	Remarks
23-11-18	lathe	bed length 1350 mm swing 320 mm	1	
" 46	Grinding Machine	double head 1 HP	1	
23-12-185	Lathe	bed length 5650 mm swing 900 mm	1	
23-13-1338	Vacuum pump	30 HP	1	
" 1339	Vacuum pump	5 HP	1	
23-9-1048	Motor	15 HP	1	
			Total	6



List of facilities for Application

Code No. 23-10A

Name of Plant. Suzuka Naval Arsenal

Address of Plant. Shono-cho, Suzuka city, Mie Pref.

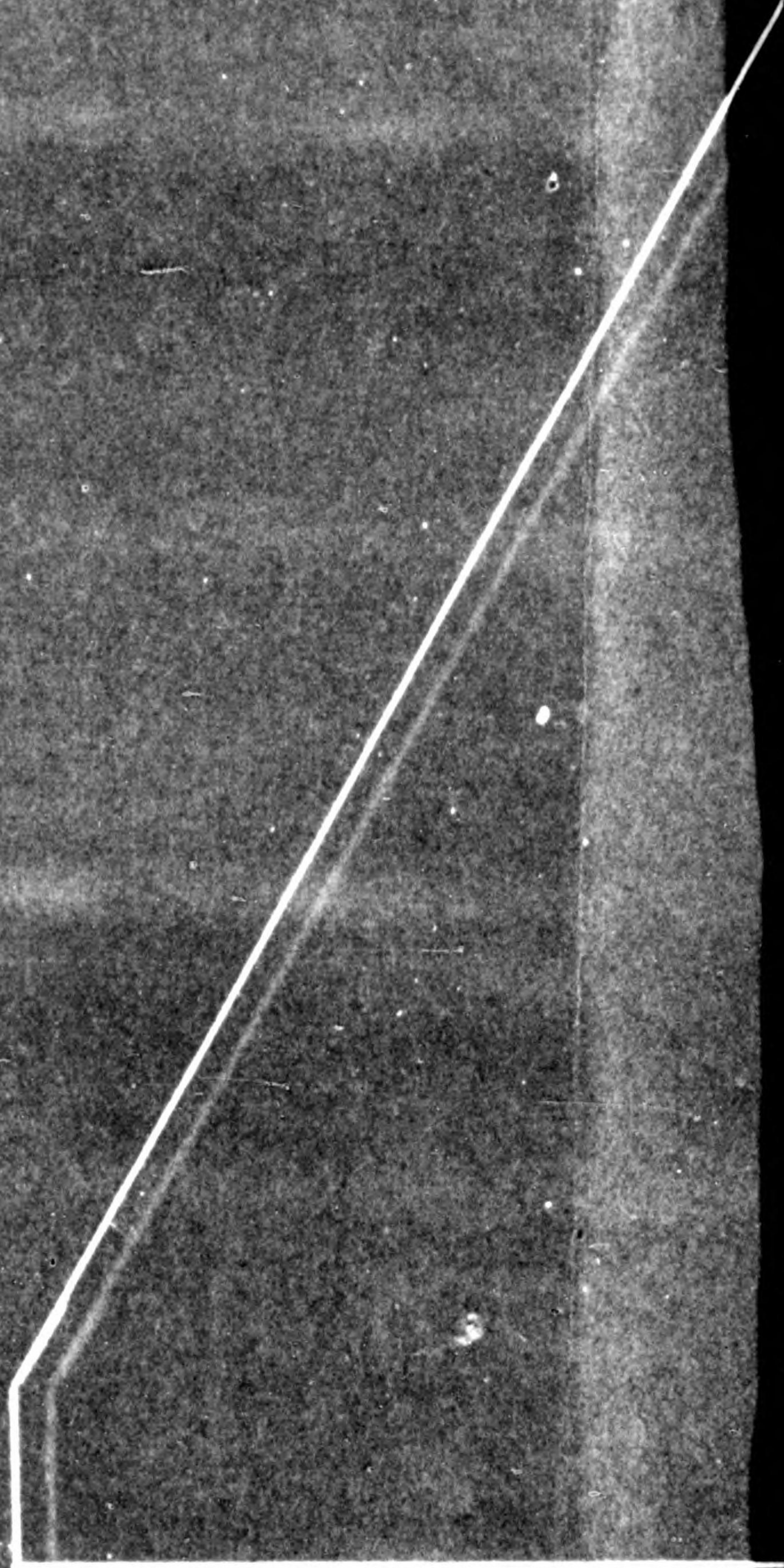
1. Machinery

Inv. No.	Name of Machine	Brief Specifications	Qt.	Remarks
23-10A-357	Lathe	swing 510 mm bed length 2700 mm	1	1
" 1526	Surface Grinder	table size 450 x 150 mm	1	
" 402	Drilling Machine	bench type stroke 250 mm	1	
" 559	Hammer	swing 390 mm crank 1/4 ton	1	
" 584	Air Compressor	stroke & cylinder 51 x 51 mm 0.105 m <sup>3</sup> /min	1	
" 1405	Motor	10 HP	1	
" 3023	Motor	1/4 HP	1	
" 2987	Motor	0.27 KW	1	
" 424	Motor	1 HP	1	
" 427	Motor	1 HP	1	
" 3013	Motor	0.27 KW	1	
" 491	Motor	2 HP	1	
" 433	Motor	1 HP	1	
" 490	Motor	1 HP	1	
" 445	Motor	1 HP	1	
" 428	Motor	1 HP	1	
" 440	Motor	1 HP	1	
" 504	Motor	1.5 HP	1	
" 458	Motor	1 HP	1	
" 436	Motor	1 HP	1	
" 435	Motor	1 HP	1	
" 492	Motor	1 HP	1	
" 443	Motor	1 HP	1	
" 880	Motor	1 HP	1	
" 502	Motor	1.5 HP	1	
" 1408	Motor	10 HP	1	
" 2597	Motor	10 HP	1	
" 2695	Motor	10 HP	1	
" 1368	Motor	10 HP	1	
" 437	Motor	1 HP	1	
" 1369	Motor	20 HP	1	
" 1400	Motor	10 HP	1	
" 1409	Motor	10 HP	1	
" 620	Motor	10 HP	1	
" 1410	Motor	10 HP	1	
" 479	Motor	2 HP	1	
" 974	Motor	1 HP	1	
" 454	Motor	2 HP	1	
" 1437	Motor	10 HP	1	
			Total	39



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SHOWING PRE-ARRANGEMENT  
OF THE REPARATIVE MACHINES

(賠償機械予定配置図)



Existing equipment <sup>still</sup> to be needed of the reparative machines. The reparative machines

一時貸與サレシモターヲ直結スル學社研發機名一覽表

一時貸與サレシ機名一覽表

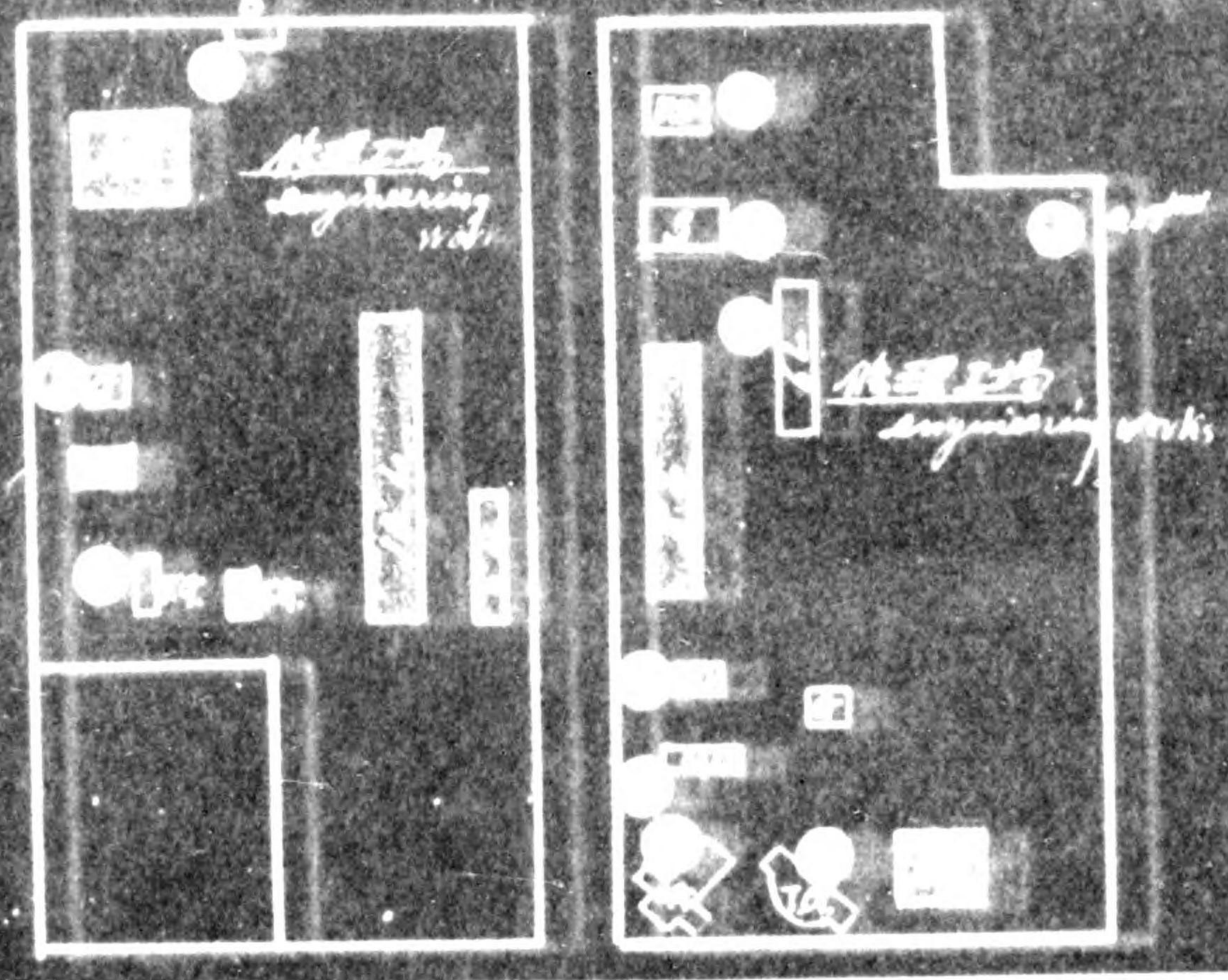
符号	品名	name
E	エペレーター	Expeller
R	ロール	Roller mill
C	クローシャー	Crusher
P	ポンプ	Pump
F	フレット	Edge runner
S	精製釜	Refining Tank
SD	ホーニ盤	Drilling machine
BD	直木ホーニ盤	Drilling machine
UG	ユニバーサル研削機	Universal grinder
TG	ツール研削機	Tool grinder
G	グランド	grinder
D	ホーニ盤	Drilling machine
B	風車機	Blower
S	成形盤	Shaper
6L	6尺機盤	6' Lathe
RD	直木ホーニ盤	Radial drilling machine

符号	品名	name	数量
⑧	1/4HP電機機	1/4 HP motor	2
⑨	1/2HP "	1/2 "	1
⑩	1HP "	1HP "	15
⑪	1.5HP "	1.5HP "	2
⑫	2HP "	2HP "	5
⑬	15HP "	15HP "	1
⑭	20HP "	20HP "	1
⑮	10HP "	10HP "	15
AM	空気圧機	Air Hammer	1
D	ホーニ盤	Drilling machine	1
18L	18尺機盤	18' Lathe	1
5L	5尺機盤	5' Lathe	1
8L	8尺機盤	8' Lathe	1
SG	平面研削盤	Surface grinder	1
VP	真空ポンプ	3HP Vacuum pump	1
V.P.	"	5HP Vacuum pump	1
AC	空気圧機機	Air compressor	1
TG	バレル研削盤	Tool grinder	1



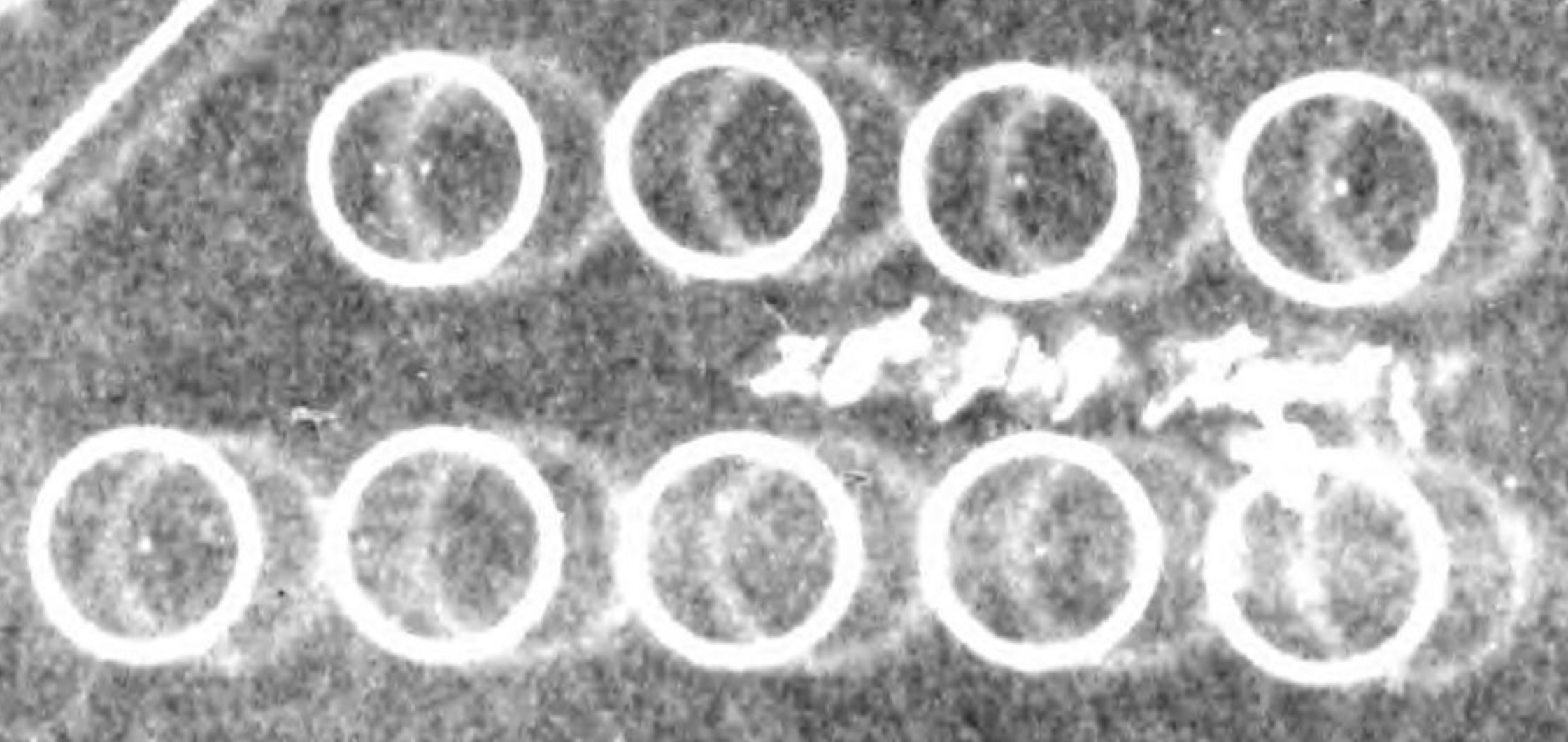
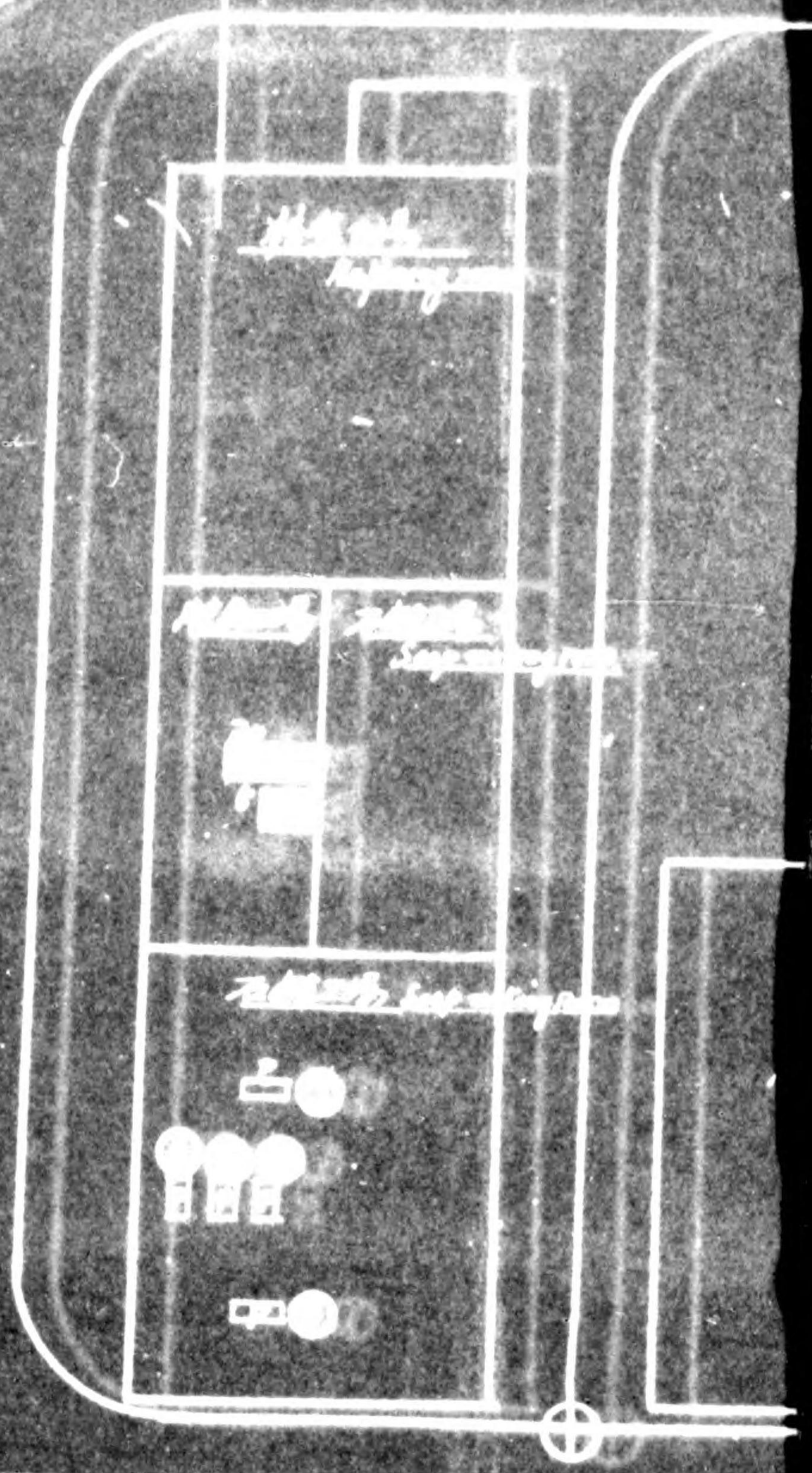
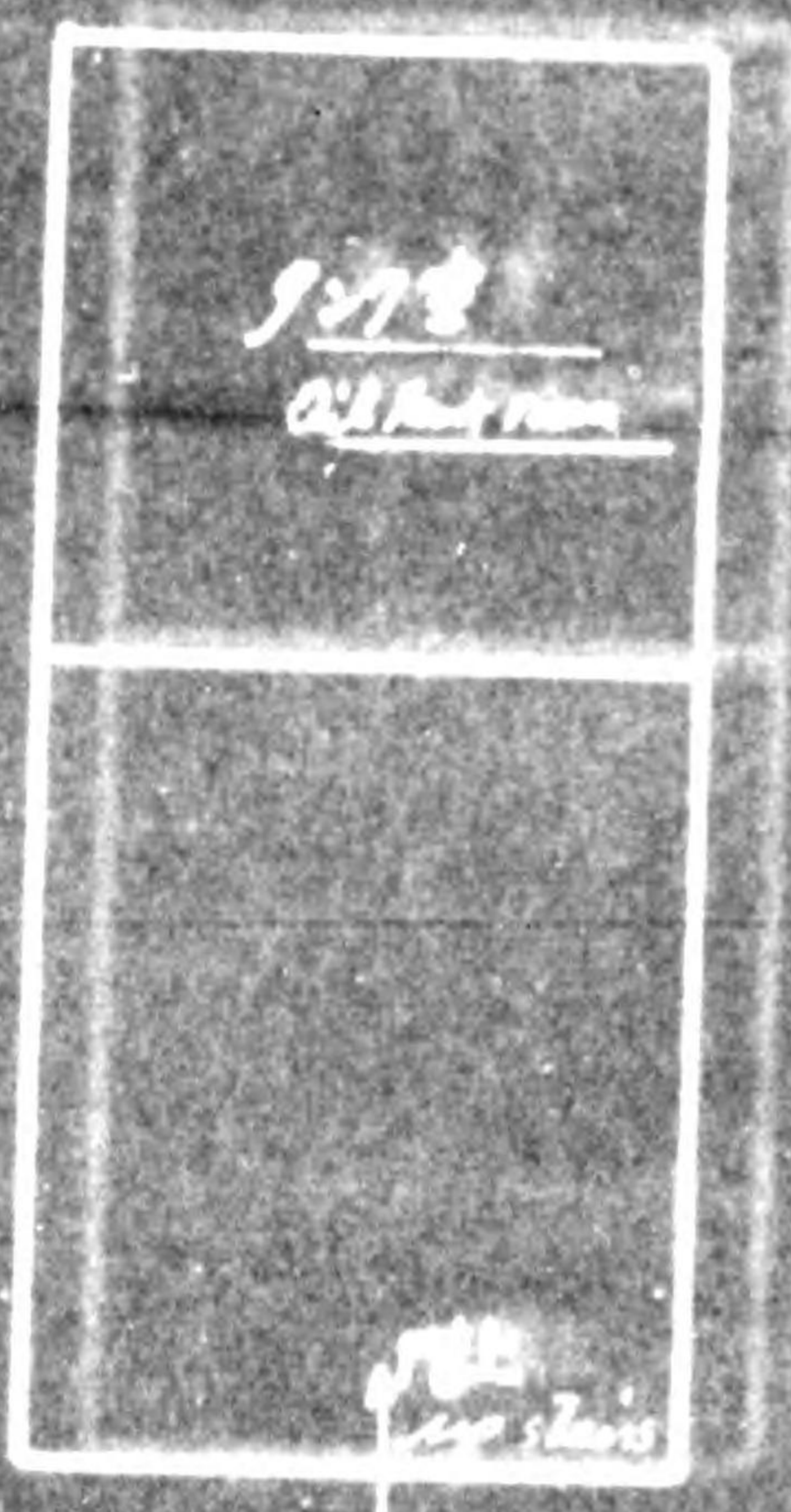
*machines*  
一覽表

	数量
TV	2
	1
	15
	2
	3
	1
	1
"	15
motor	1
machine	1
the	1
the	1
the	1
generator	1
pump	1
water pump	1
motor	1
generator	1





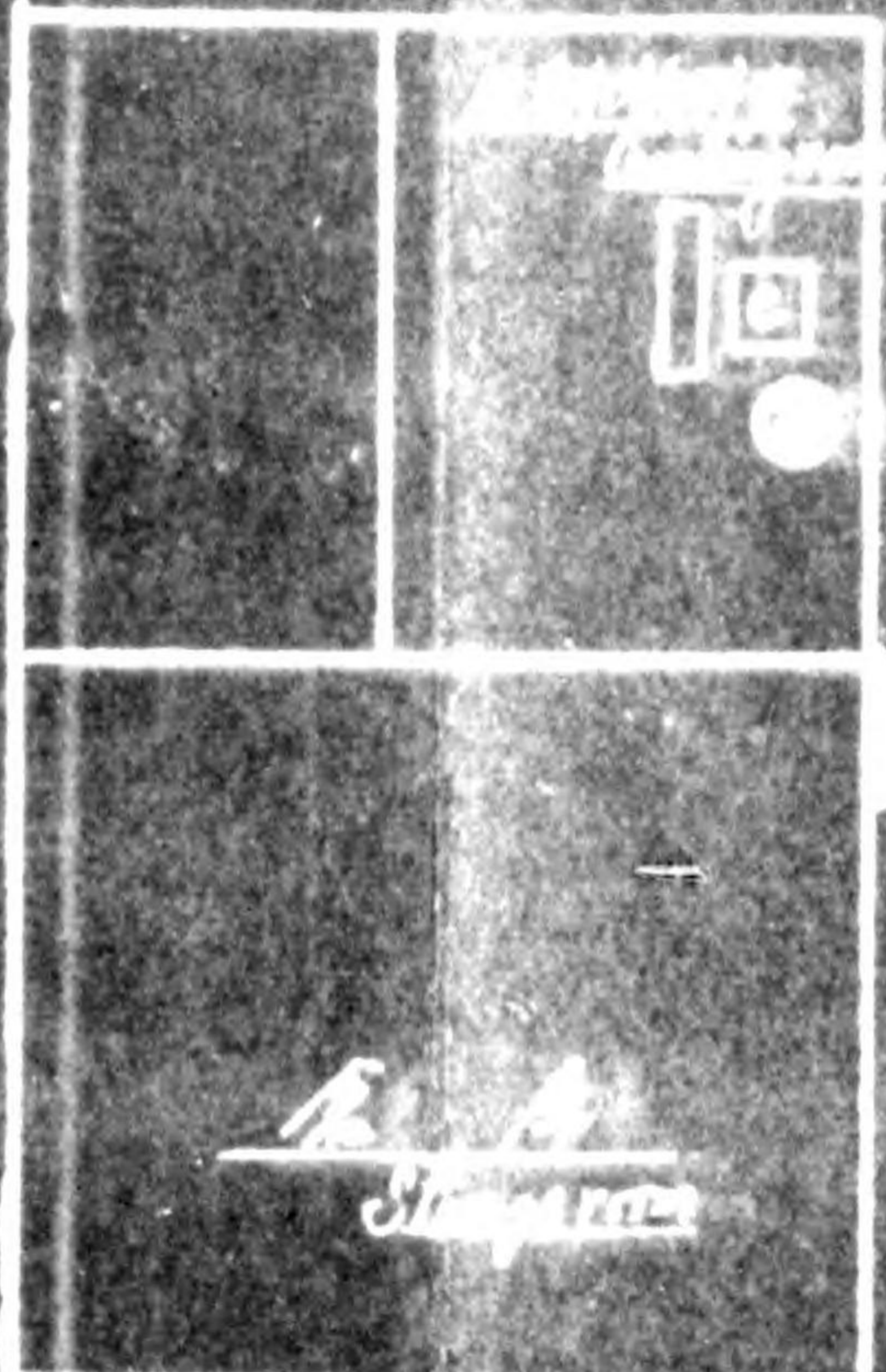
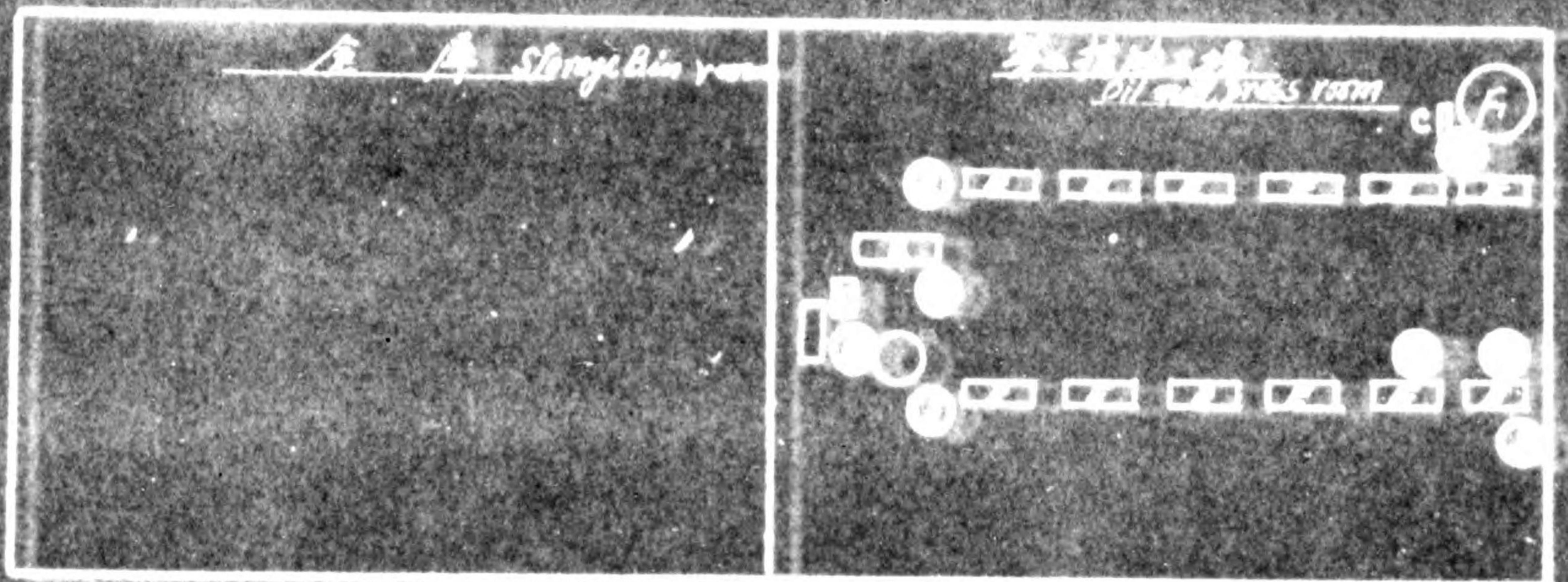
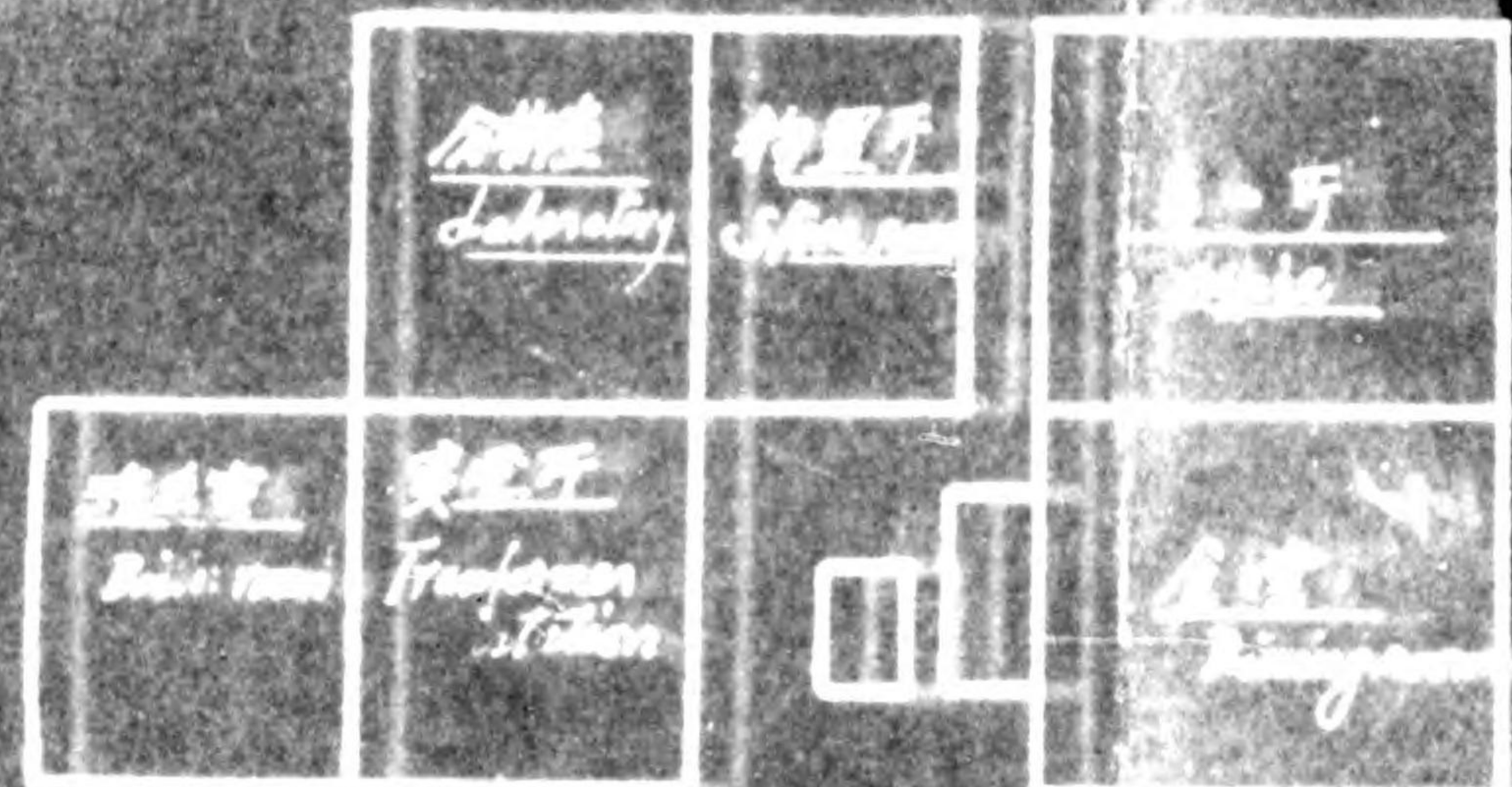
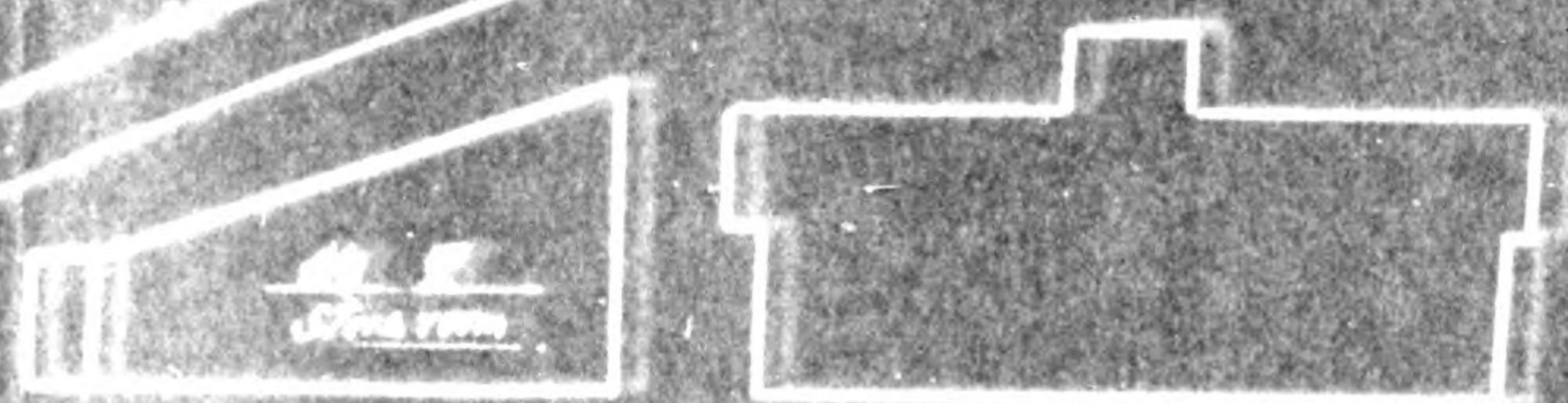
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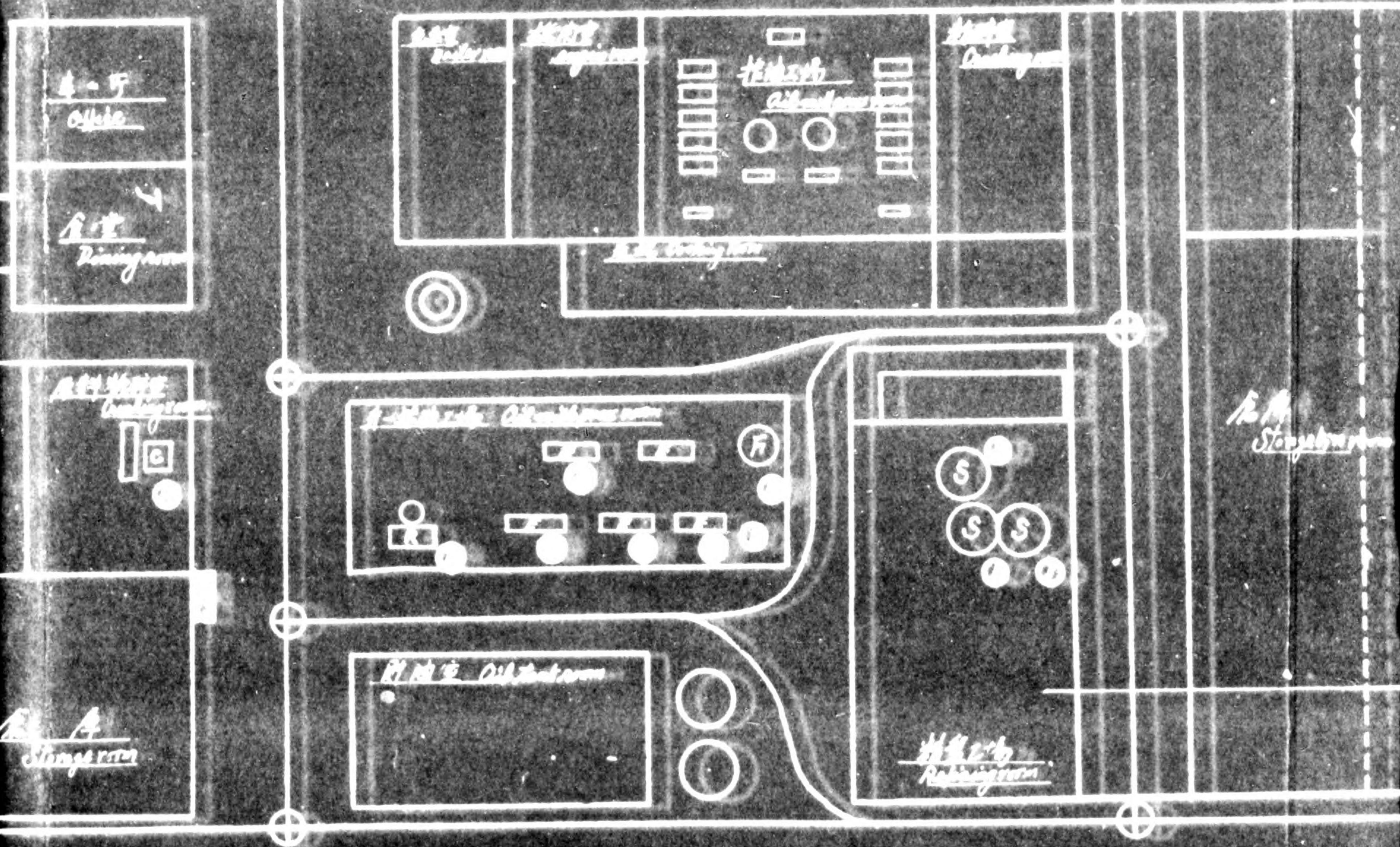
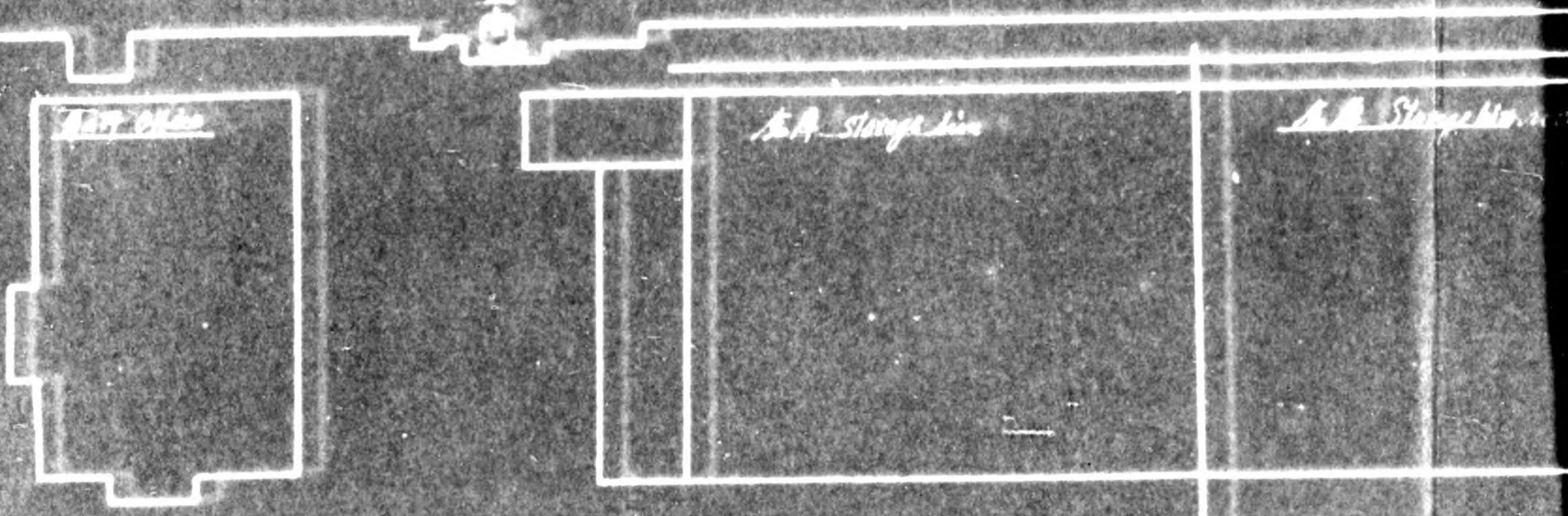
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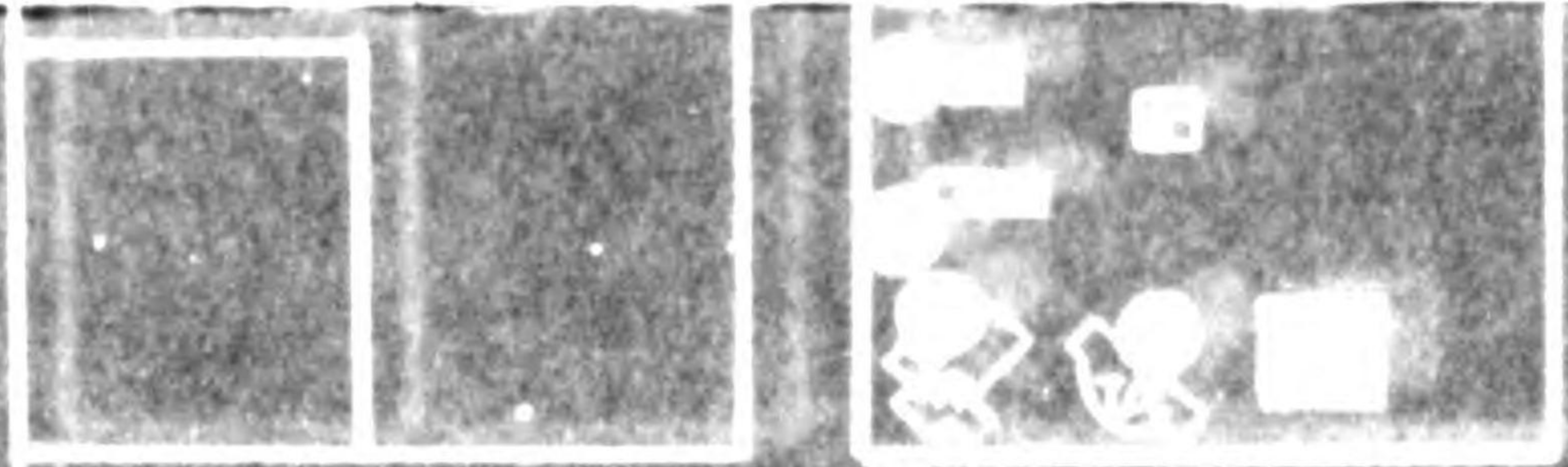
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11	184444	1/2	1
12	184444	1/2	1





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*9272*  
*air pump*  
*FEEL*  
*19 1/2*

*The Ando Oil & Mill Co. Ltd. L.F. Co.*

四国市安藤町一〇番地  
 株式会社安藤製油所



Application for authorized Use and  
or move of the Reparation Equipment.

To : Minister of Finance.  
From : Tatsuo Geriki,  
Director, Geriki Ship-Building Co.,  
355 Ominato-cho, Ujiyamada-city, Mie Prefecture.

Date : December 10, 1949

1. Name of Plant. (Code No.)

Tsu Naval Arsenal (23-12)  
Suzuka Naval Arsenal (23-10 A)

2. Location of Plant.

Komori, Tsu-city, Mie Prefecture.  
Syono-cho, Suzuka-city, Mie Prefecture.

3. Name of Products planned.

Ship-buildings, and Marine Machine and Tool Manufacture.

4. Experience of the product planned.

Our company have produced the above goods, up to date, however, out of which 40% productions have been filed up through outsider, due to the reason that the tool-machines and facilities are very imperfect.

We are anxious to get aside the outsider and manufacture the excellent-machines by ourselves, so that we are able to respond to the demands for Inland and Exports, as we are getting enquiry concerning exported ship from abroad.

5. 1939-1949 production.

<u>Year.</u>	<u>Products.</u>	<u>Year.</u>	<u>Products.</u>
1939	520 ton.	1945	250 ton.
1940	530 "	1946	460 "
1941	600 "	1947	420 "
1942	300 "	1948	450 "
1943	300 "	1949	450 "
1944	300 "		

6. Period of desired permission.

From the authorized date to reparation removal.

7. Seals of the production Planned by month for period on this application.

Monthly productions have come up to ¥ 500,000, out of which ¥ 200,000 has been depended upon the outsiders, due to the poor machines and facilities.



As the outside goods are often unable to be in time for the appointed time, and in addition, its quality is very poor, we are anxious to produce all the machines by ourselves, so that we are able to get aside the bottle-necks for manufacturing, by making the best use of reparation equipment, by which we may be able to promote the productions and efficiency up to 40% of the presents.

8. Name and Location to which products are to be Delivered.

Machines and tools for ship-buildings:

Destinations in Japan. Tokyo, Fukushima, Kagawa, Mie Hyogo, prefectures.

Destinations exported. Choria, Okinawa, Soviet Indian.

9. Seals of proposed change in physical facilities.

<u>Code No.</u>	<u>Name of Machine</u>	<u>Qt.</u>	<u>Remarks</u>
23-12-642	Gear Hobbing Machine	1	A part missing.
" 1377	Flexible sander	1	Much parts missing, damaged
23-10A-1985	Grinder	1	"
" 907	Lathe	1	"
" 2082	Mechanical press	1	Some parts missing.
" 1207	Gear Hobbing Machine	1	Much parts missing.
23-11- 21	Shearing machine	1	Much parts missing damaged

10. Intended expense for Authorized Use.

- A. Materials to be required:  
Repairments of parts damaged will be completed by stock and accessories will be purchased. ¥ 90,000
- B. Labor expense.  
Delivery by truck belong to us. Repairment by our workmen. ¥ 85,000

11. Plan and location to continue the production after reparation removal.

We are obliged to rely upon the facilities already constructed as it is almost impossible to purchase substitutes in case of reparation removal, from which the production capacity will be decreased accordingly.

*T. Goriki*  
TATUO GORIKI

Director,  
Goriki ship-building Co.  
Goriki Zosen k.k.



List of Facilities for Application

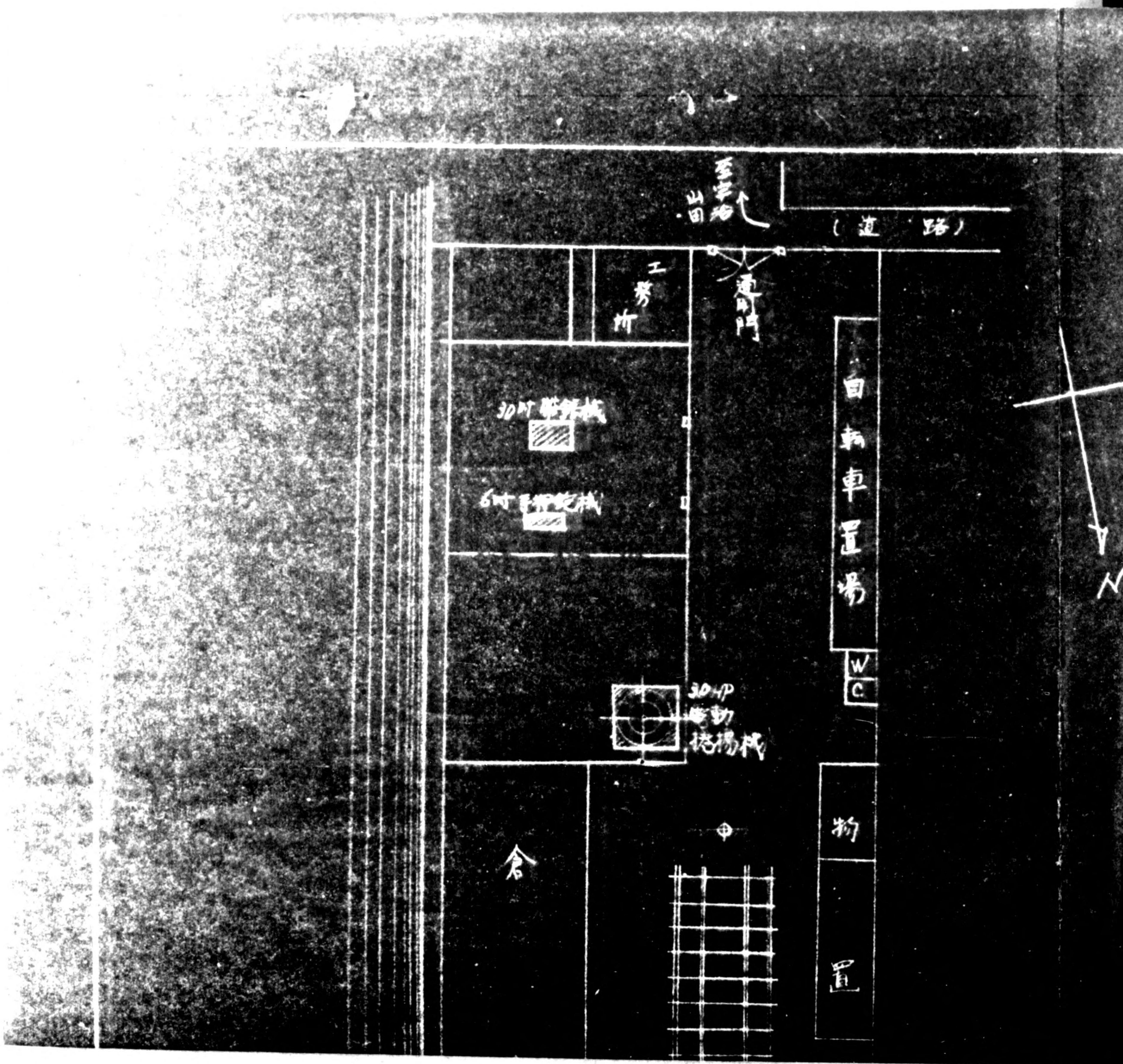
Code No.            23-10A,            23-11,            23-12,  
 Name of Plant.    Suzuka Naval Arsenal.  
                       2nd Naval Air Base.  
                       Tsu Naval Arsenal.  
 Address of Plant. Shono-cho, Suzuka city, Mie Pref.  
                       Shono-cho, Suzuka city, Mie Pref.  
                       Komori, Tsu city, Mie Pref.

1. Machinery

Inv. No.	Name of Machine	Brief Specifications	Qt.	Remarks
23-10A-1207	Gear Hobbing Machine	Max. 400 x 250	1	
" 2082	Mechanical Press	40 ton	1	
" 907	Lathe-engine	swing 640 mm bed length 3650 mm	1	
" 1985	Grinder-surface	Swing 270 mm table face 1000 mm	1	
23-11-21	Shearing Machine	strok 125 mm	1	
23-12-1377	Flexible sander	2 HP	1	
" 642	Slotter	strok 200 mm	1	
			<b>Total</b>	
			7	



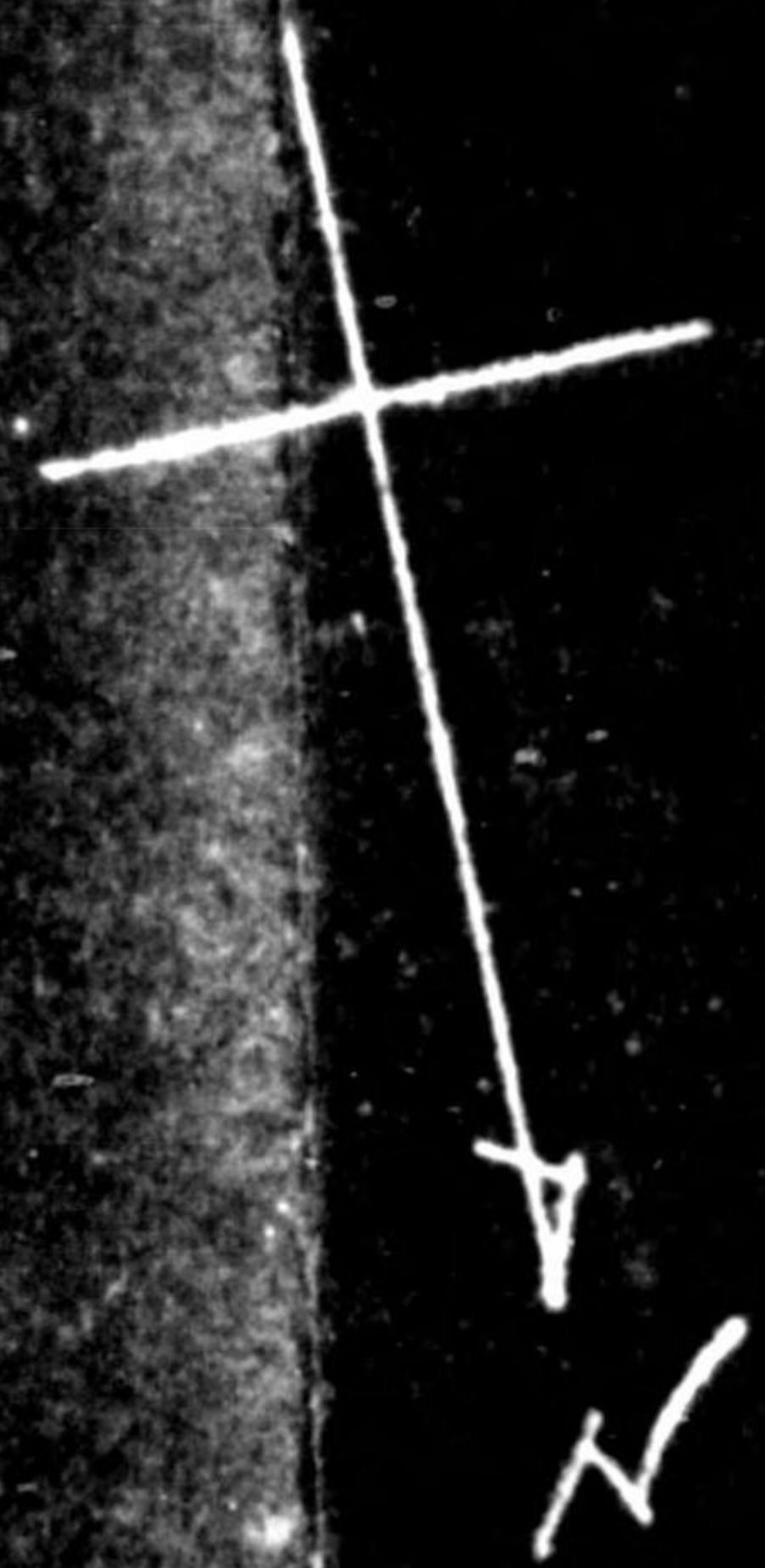
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會林  
社式  
強力造船所

上架修繕工場設備配置圖



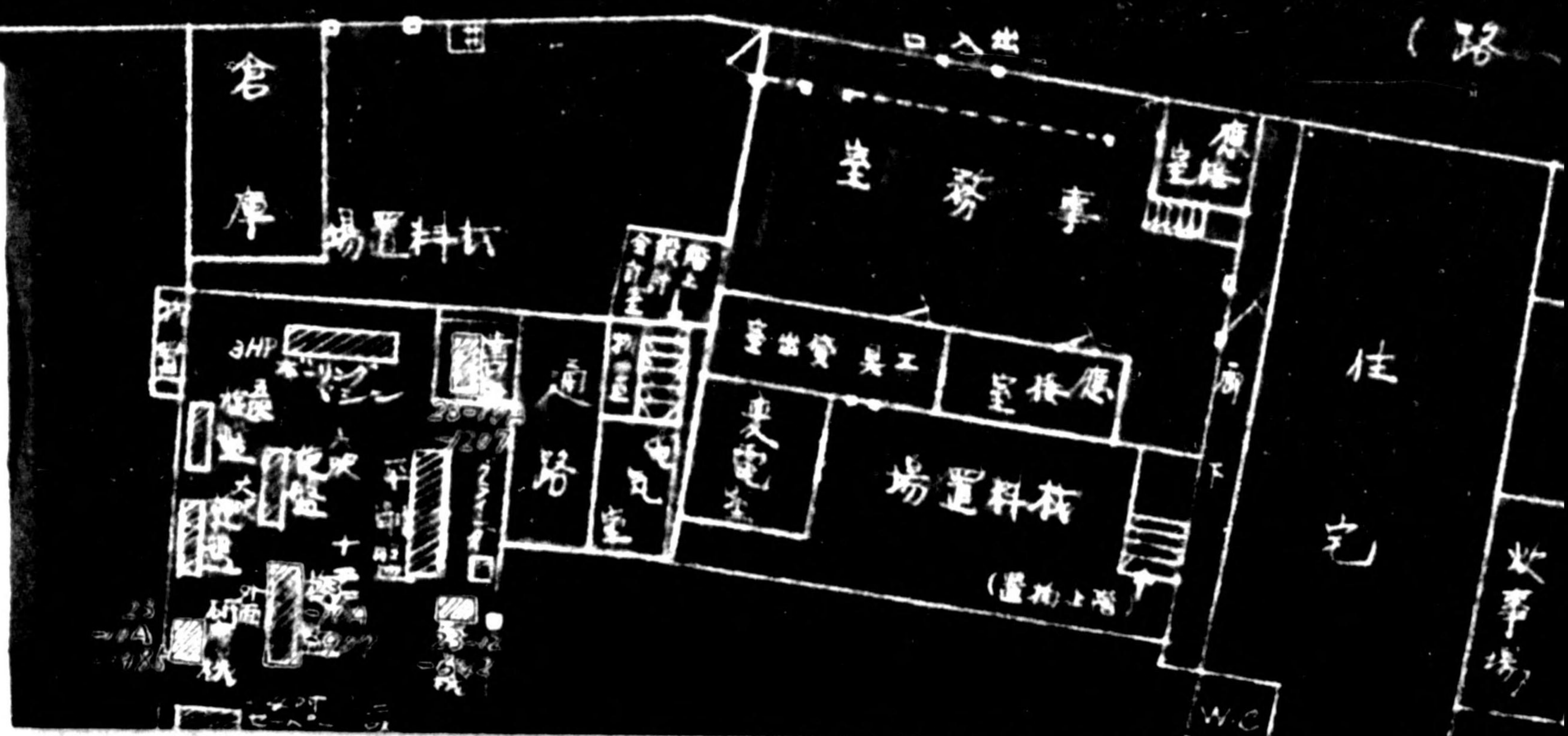
Code No.	Name of Machinery
23-12-642	Slotting Machine
23-12-1377	Flexible Shaft Gr
23-10A-1985	Grinding Machine
23-11-21	Hand Shear
23-10A-907	Engine Lathe
23-10A-2002	Punching Machine



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株式會社強力造船所 第一及第二工場設備圖

← 至岸泊山田

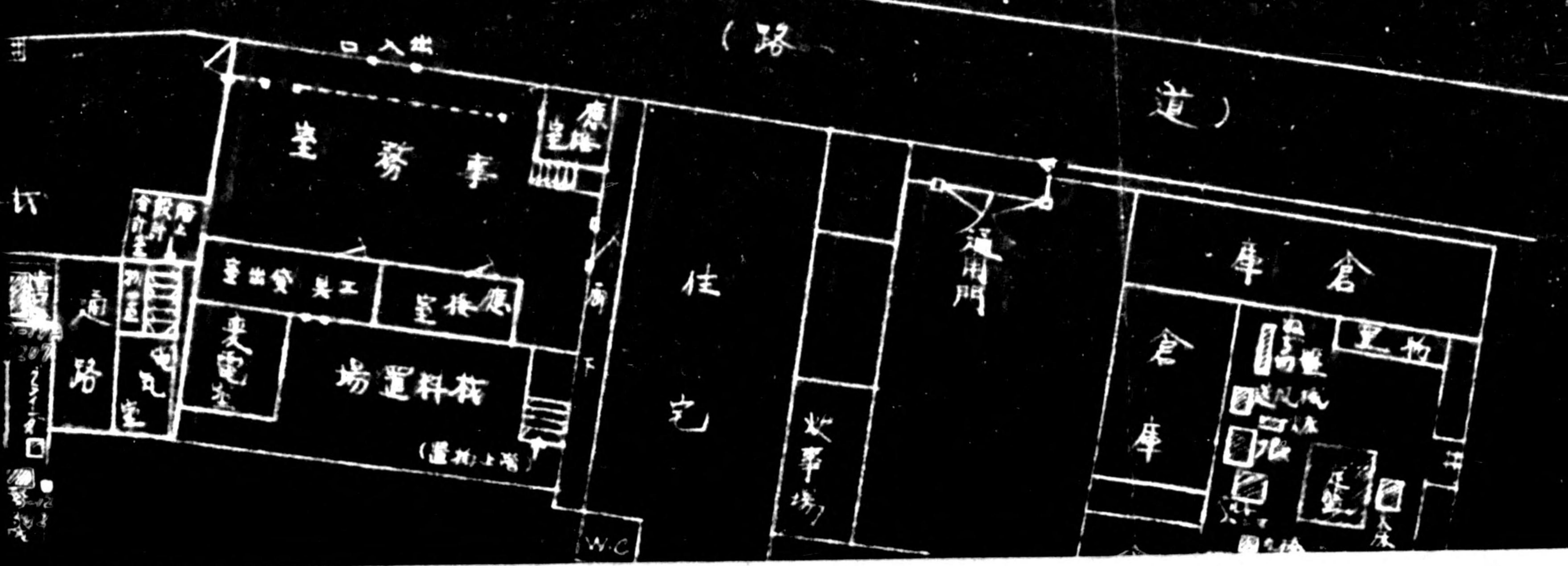


Name of Machinery
Plotting Machine
Flexible Shaft Grinder
Grinding Machine
Hand Shear
Engine Lathe
Punching Machine



四

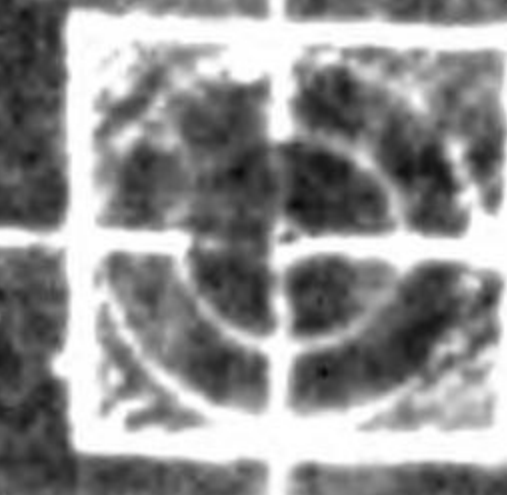
場所第一及第二工場設備配置圖





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WC



304P  
物置  
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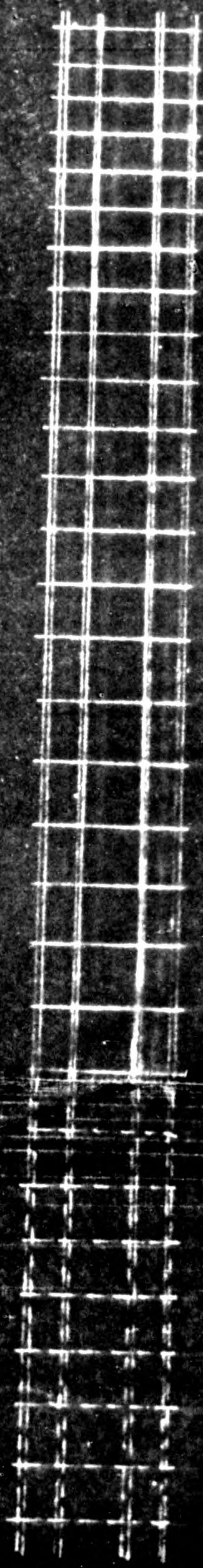
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場設備配置圖

Code No.	Name of Machinery
23-12-642	Slotting Machine
23-12-1377	Flexible Shaft Grinder
23-10A-1985	Grinding Machine
23-11-21	Hand Shear
23-10A-907	Engine Lathe
23-10A-2082	Punching Machine
23-10A-1207	Gear Hobbing Machine

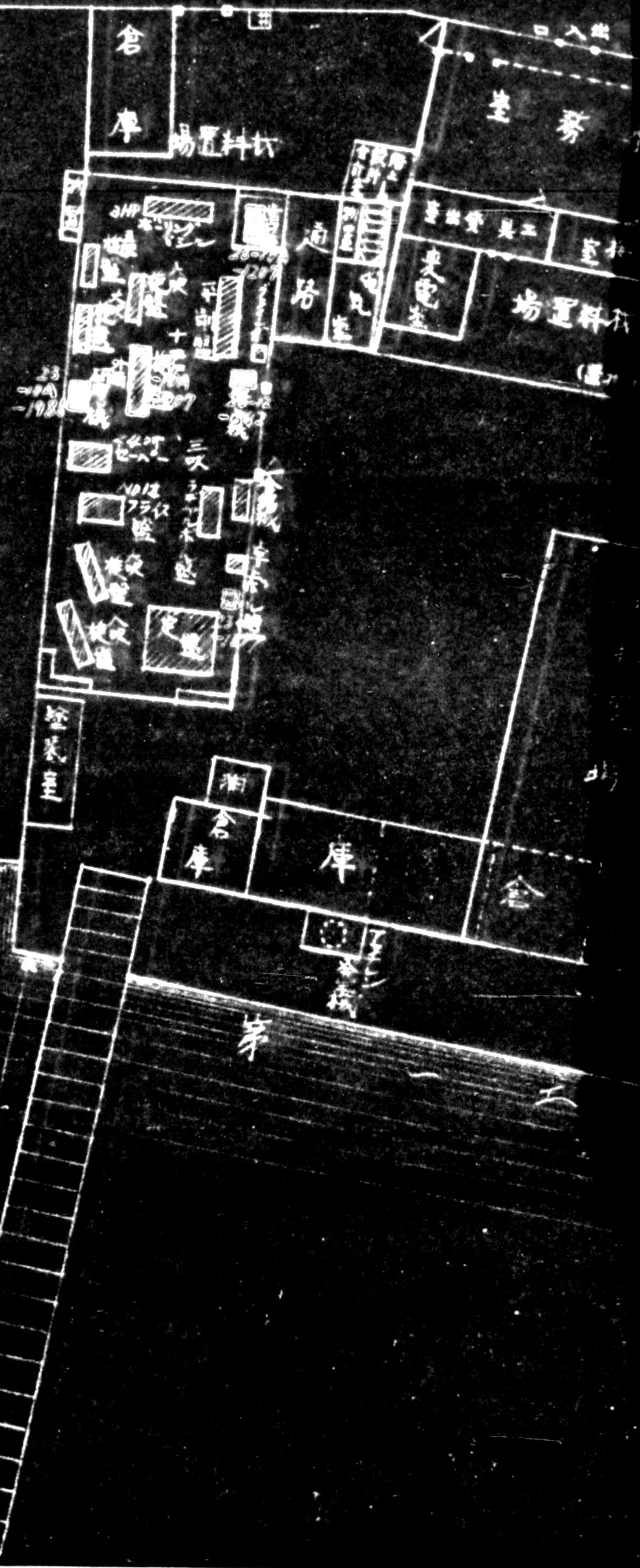
九



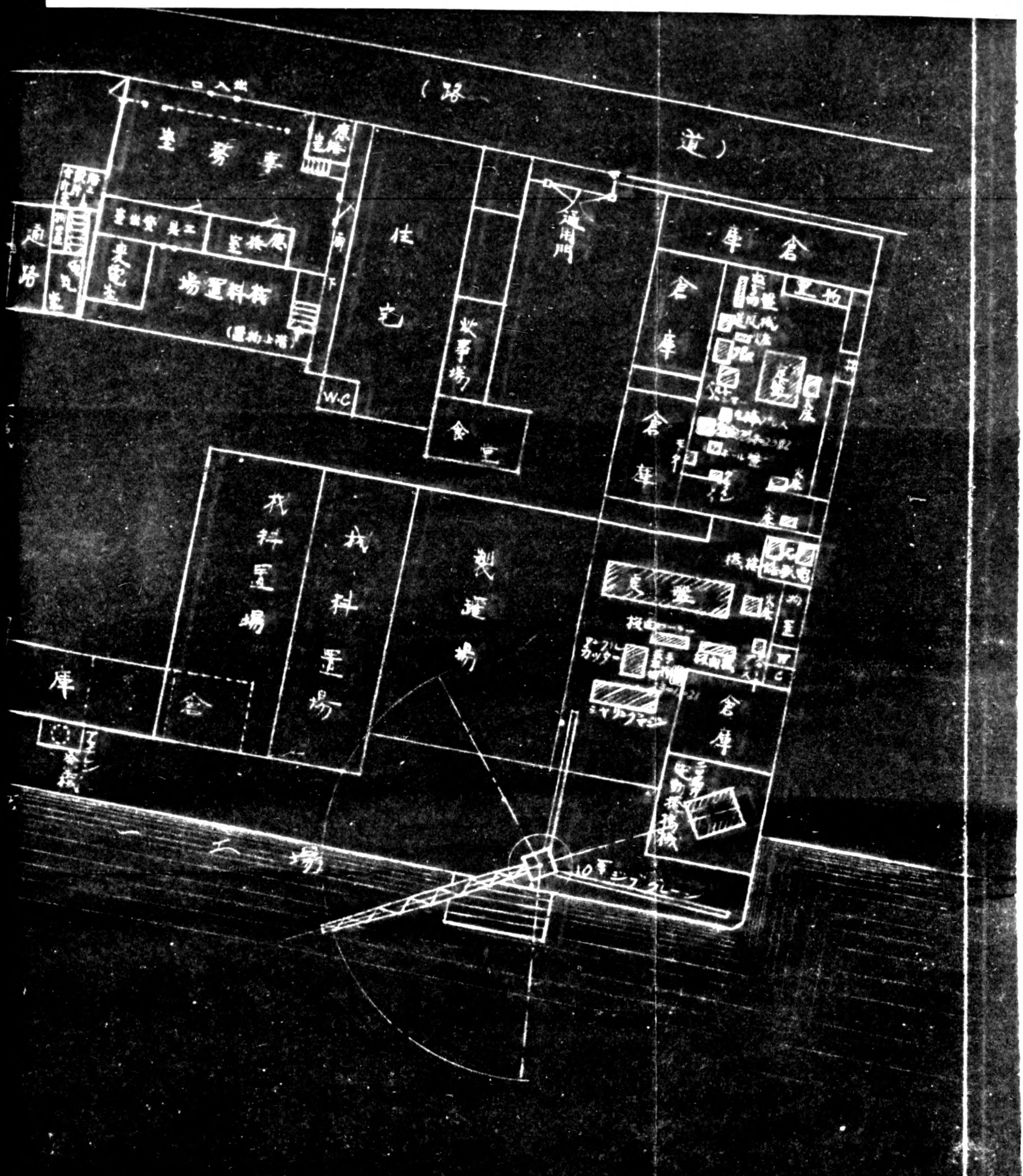
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← 至岸治山田

Code No.	Name of Machinery
23-12-642	Plotting Machine
23-12-1377	Flexible Shaft Grinder
23-10A-1985	Grinding Machine
23-11-21	Hand Shear
23-10A-907	Engine Lathe
23-10A-2082	Punching Machine
23-10A-1207	Gear Hobbing Machine

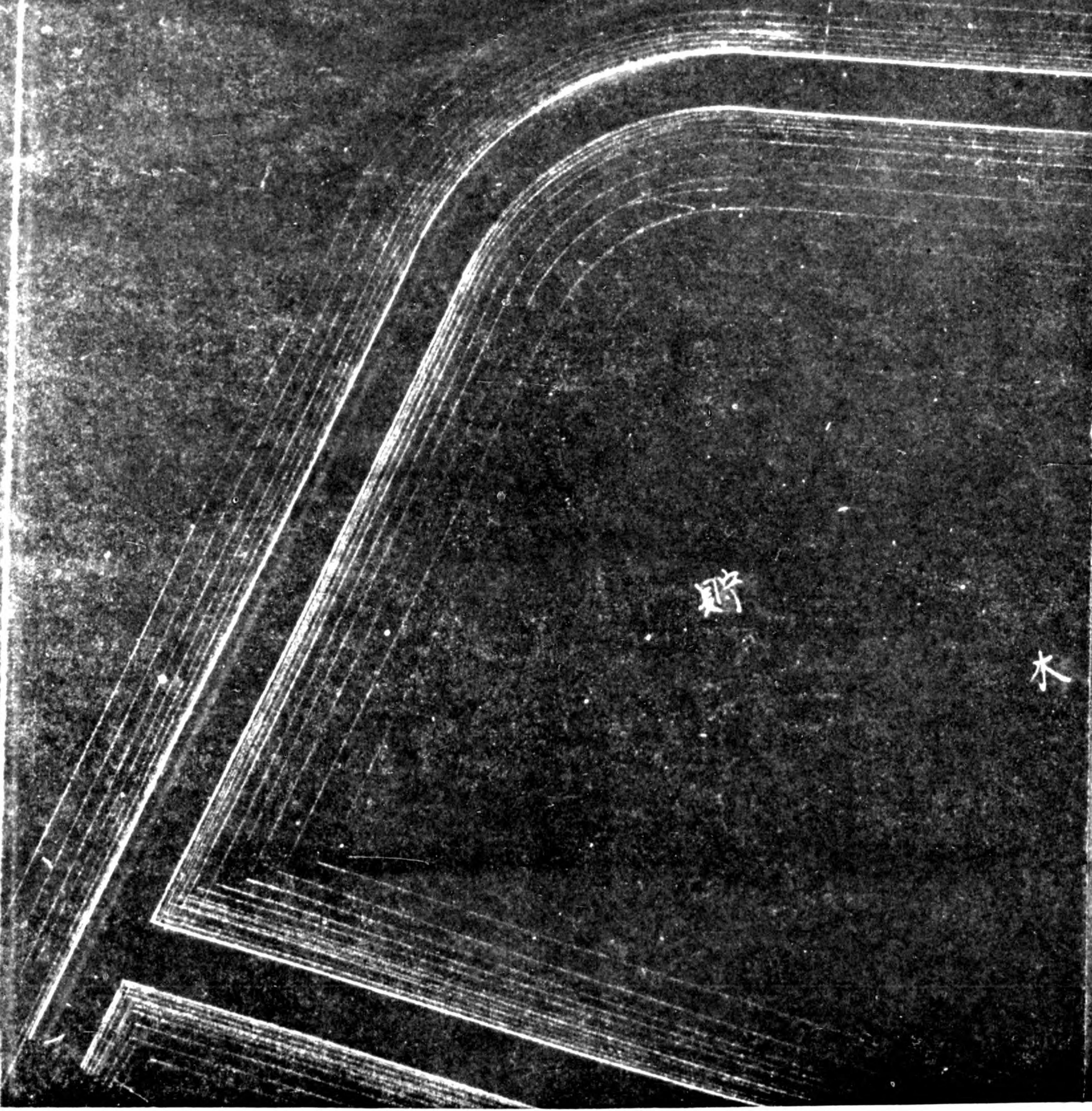








Grid pattern consisting of approximately 5 vertical and 5 horizontal lines.



野

水



大

残 放 置 場



水門

木材貯蔵室

木材貯蔵室

42吋電線盤

48吋電線盤

電機室

照明室

倉庫

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(階上現回室) 作業

36吋電線盤

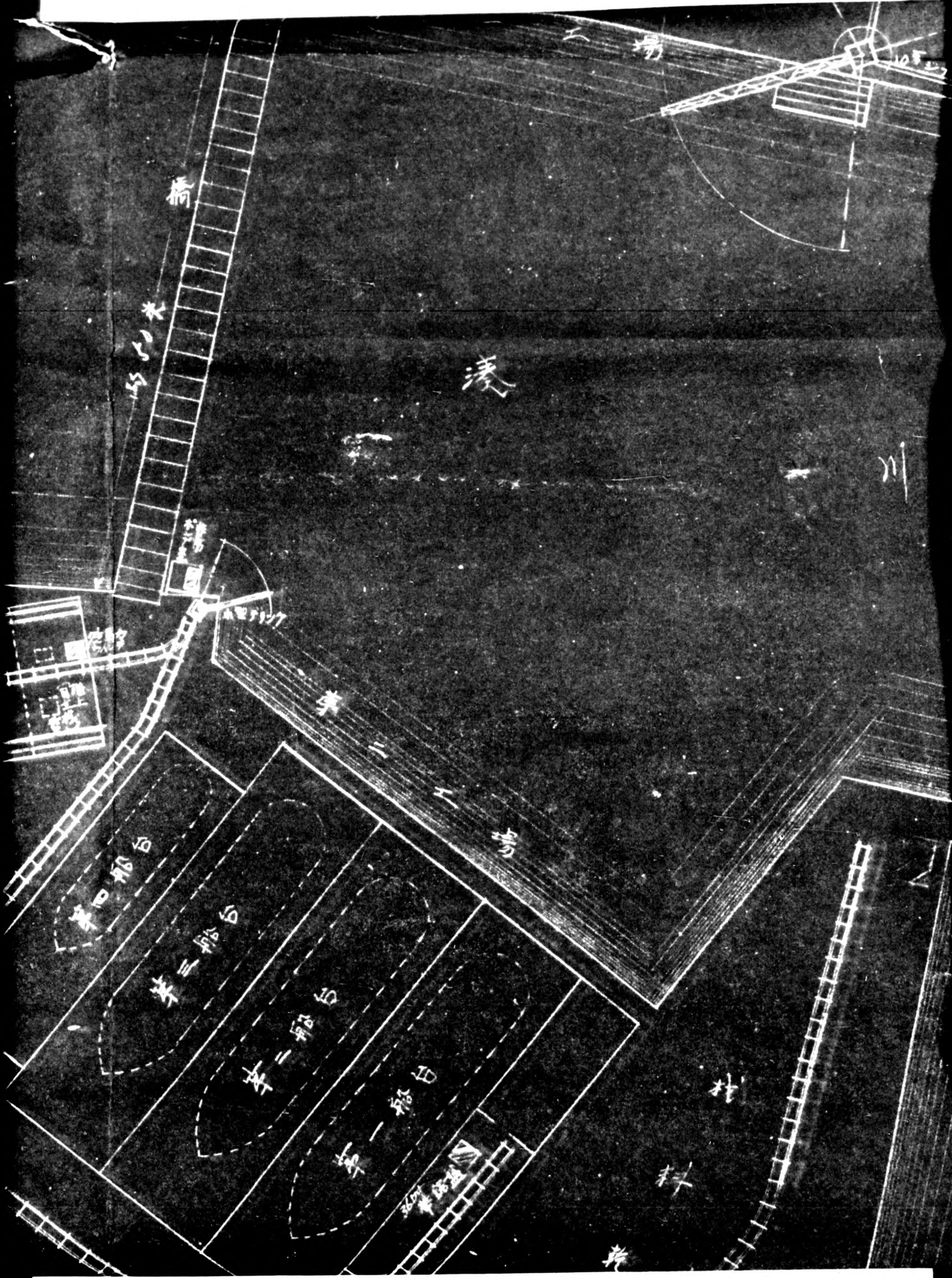
外口形

場

550米



105



橋

155 米

港

川

第二工場

材料

第四船台

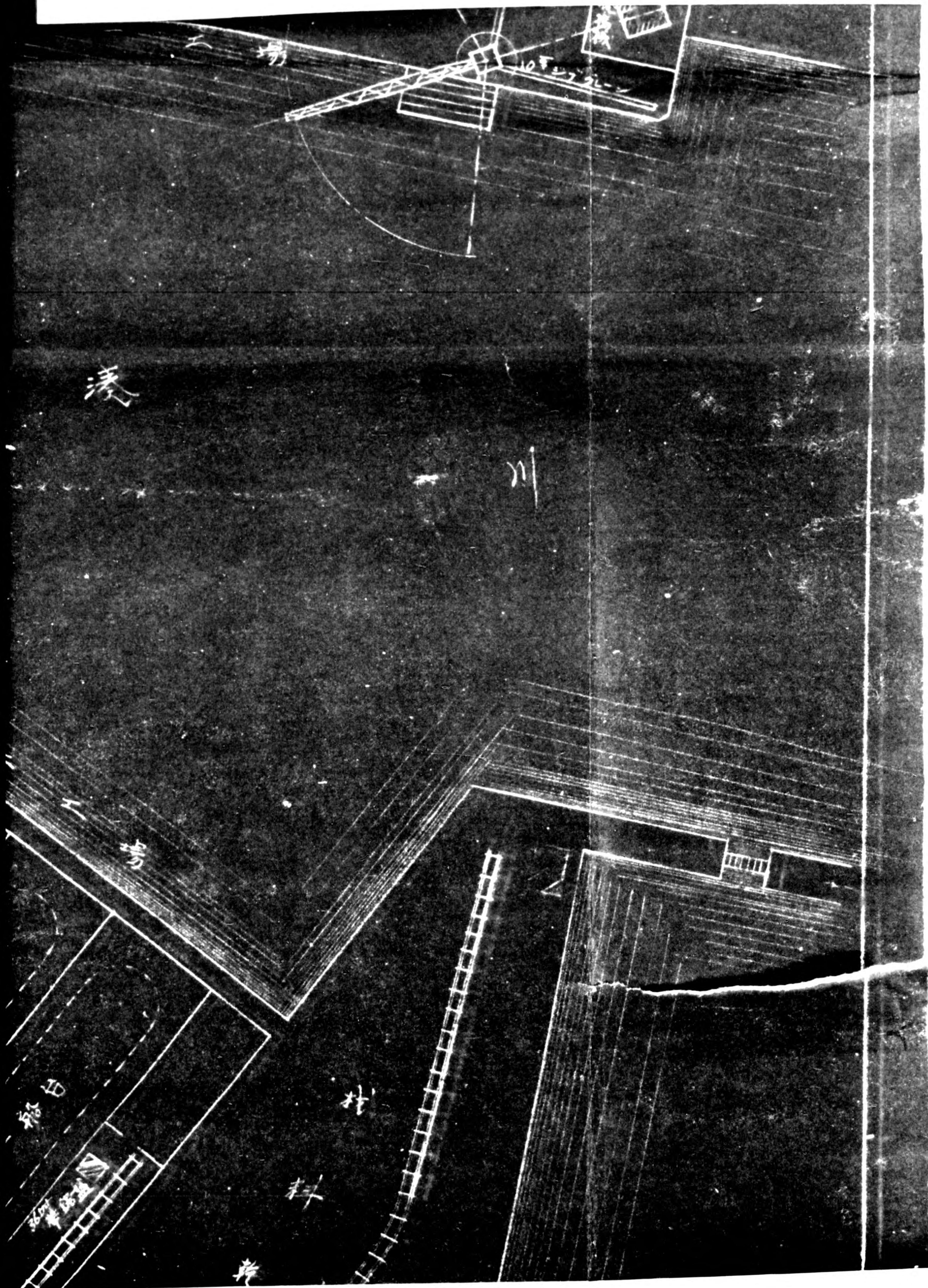
第三船台

第二船台

第一船台

倉庫



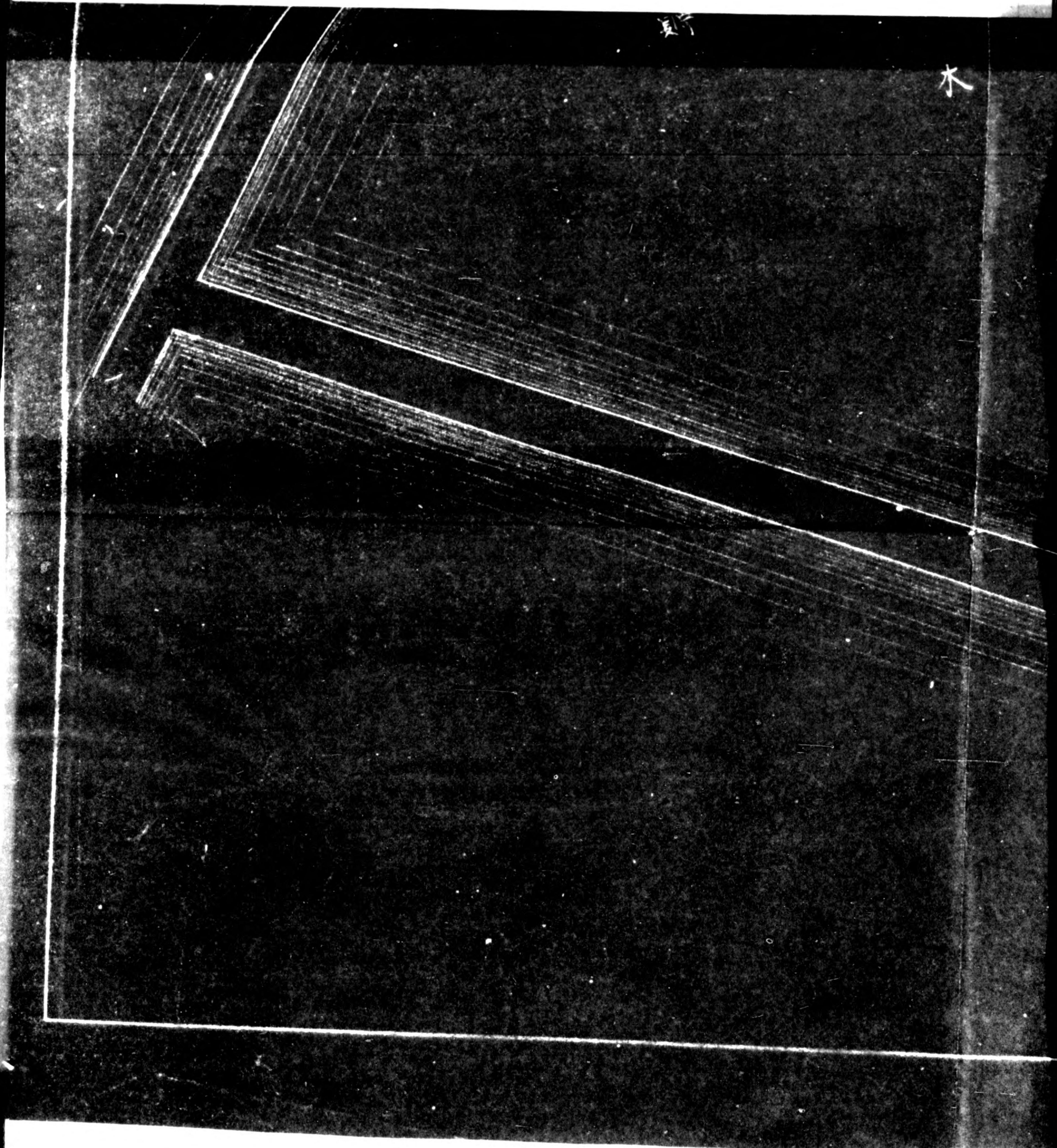




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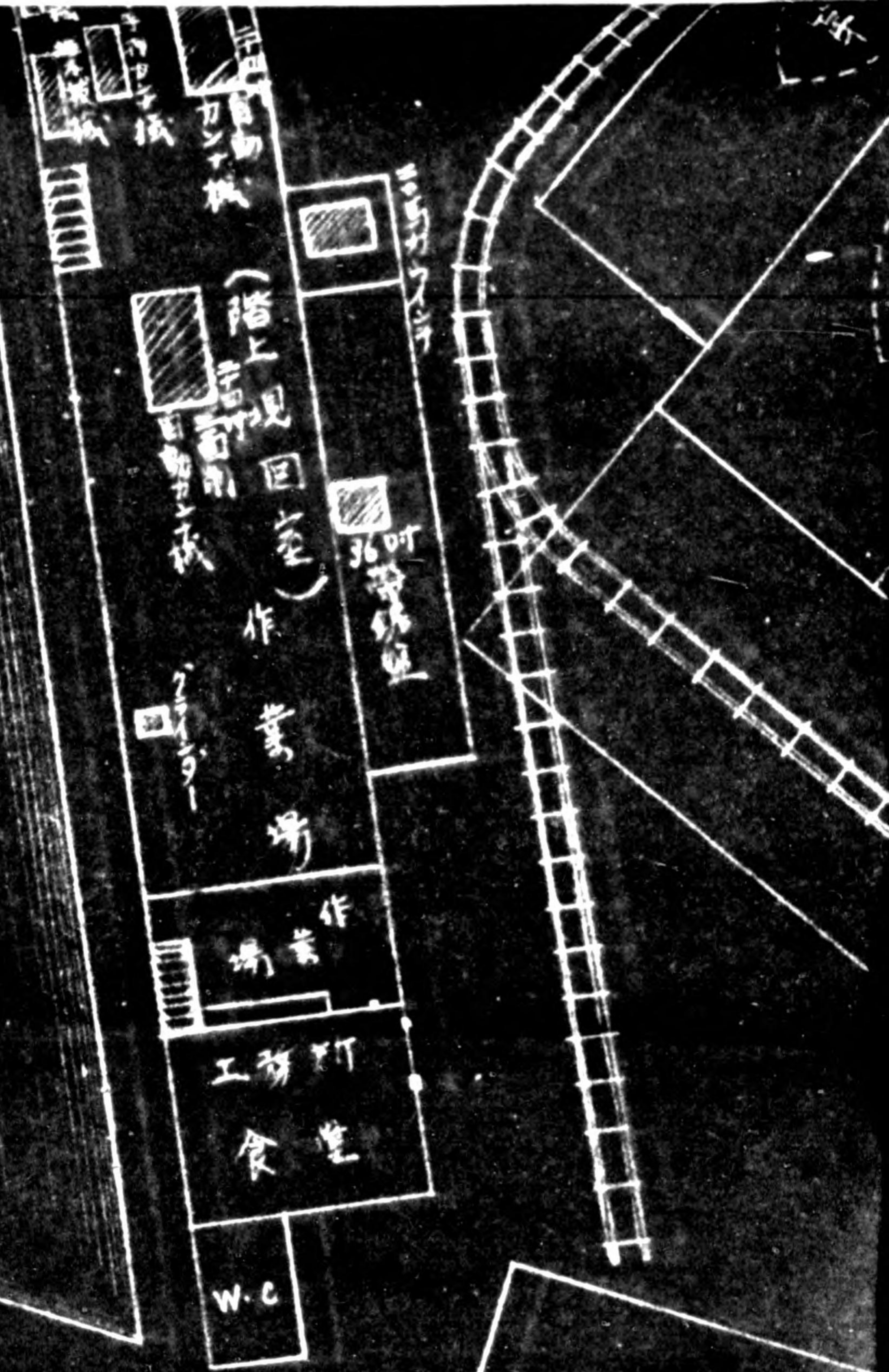




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水

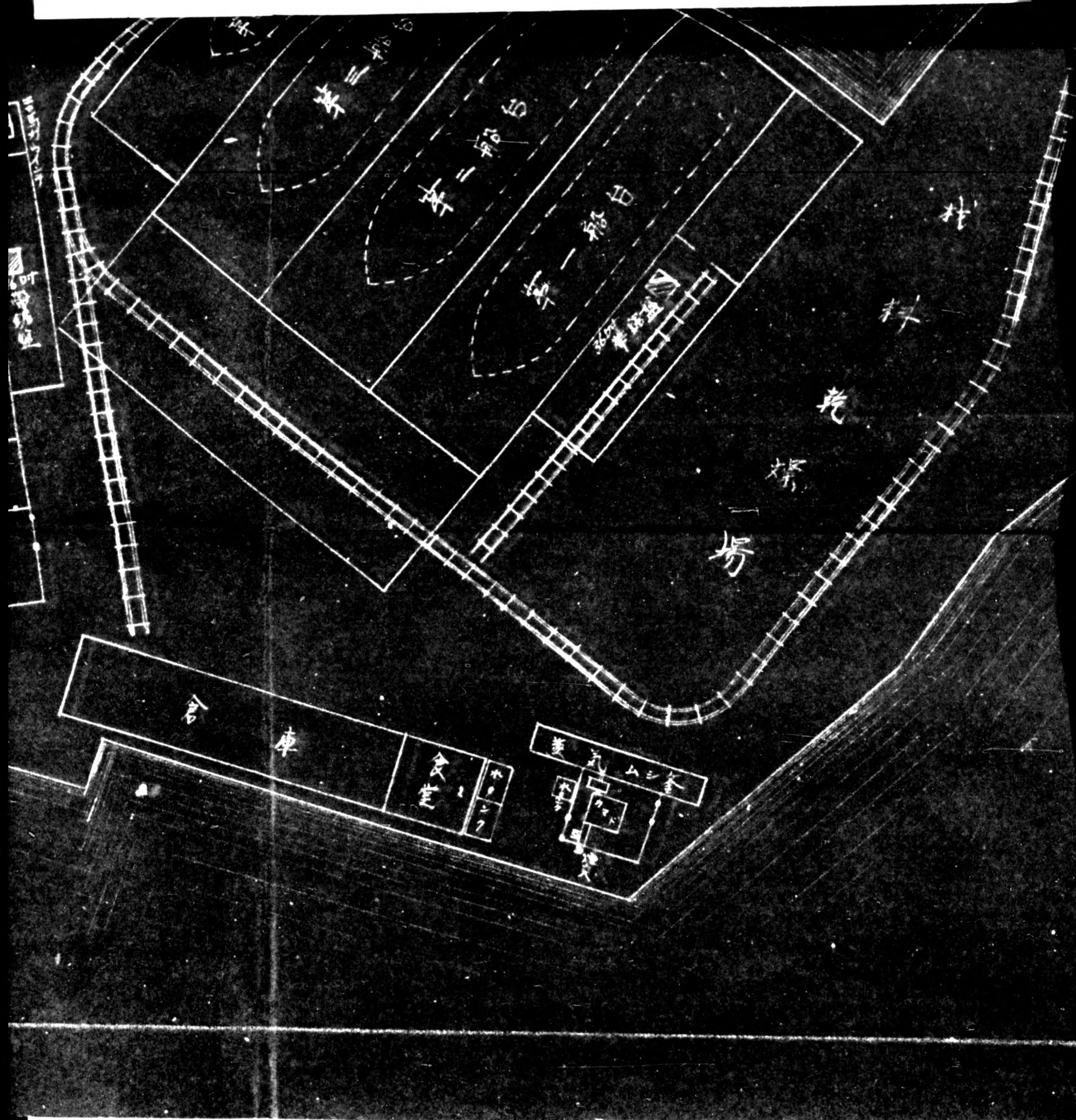
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Application for Authorized Use and  
or Move of the Reparation Equipment

To: Minister of Finance

From: Michiya Tomimitsu  
Plant Master, Shinko Denki k.k.  
Toba-cho, Shima-gun, Mie ken.

Date: 7 December 1949

1. Name of plant. (Code no.)

1. Tsu Naval Arsenal (23-12)
2. Kusu Factory, Nagoya Army Arsenal (23-9)

2. Location of plant.

1. Oaza Komori, Tsu-shi, Mie ken.
2. Kusu-cho, Mie-gun, Mie ken.

3. Name of Products planned.

All kinds of Electric Motor & Electric Instruments.

4. Experience of the production planned.

We are engaging in the manufacture of all kinds of Electric motor, especially, such as Electric Cars, Air Compressor, Pot motor for rayon, for D.C. Crane Motor and general Motor. However we are facing to the difficulty to be manufactured them. For no the super machine on hand in our present Equipment. Therefore, we intend to cover it partly by using of Reparation equipment. Particularly, it will be availed well for the manufacture of jigs and productive technic will be greatly progressed.

5. 1939-1949 production.

1939	8,540,000	(yen)
1940	10,450,000	
1941	12,781,000	
1942	13,290,000	
1943	24,394,000	
1944	47,953,000	
1945	24,864,000	
1946	38,479,000	
1947	137,399,000	
1948	357,595,000	
1949	439,794,000	Up to November



b. Period of desired permission.

From the date authorized to reparation removal.

7. Goals of the production planned by month for period on this application.

The amount of production estimate as the following, but, by using of Reparation Machine we believe that our production will be increased 1.5 or 2 percentage per month.

Dec. estimate of production	¥ 53,089,230.00
Jan. "	¥ 51,171,530.00
Feb. "	¥ 51,882,520.00
March "	¥ 46,177,910.00

We have been made the effort, in a point of the production for the large demand of small type motors, and many kinds of D.C. motors, generators and accessories, above all regardings fibre industry, for the independent operation of rayon spinning machine, on the other hand, radio electric apparatuses motor for gramophones, as a technical forerunner. Moreover, for the progressive of efficiency and precision, successively, intend to be turned from old equipment to new. The first-step is to be used reparation machine which can't be handed in market easily.

The following is the percentage of production to be increased by availing the said machines.

Name of Product	Name of machine be used	Unit	Percentage	Remarks
Various Electric Motors. Motor for elect car, Compressor Crane and D C Motor	Lathe	7	0.5 %	Precision progress.
Three phase Induction Motor small type. of D C Motor	Vertical Turret Lathe.	2	0.8 %	Precision progress.
	Lathe	2		
	Turret Lathe	3		
	Universal Grinding Machine	1		
	Drilling Machine	2		
Core Jig Fixture	Jig Boring Machine	1	130% - 150%	Precision of progress 3 fold.
	Surface Grinding Machine	5		
	Internal Grinding Machine	1		
	Gauge Grinder	1		
	Radial Drilling Machine	1		
	Milling Machine	1		
	Lathe	1		
	Fine Thread Lathe	1		
	Tool Grinder	1		



## 8. Name and Location to which products are to be Delivered.

<u>Products</u>	<u>Destination.</u>	<u>Remarks.</u>
Main motor for electric Car. Motor for Air Compressor D.C. Motor	Main cities in Japan.	
General Motor	Daiichi Bussan k.k. Yokohama city Tokyo-to.	Export for Burma. Formasa.
	For Ciam, Pakistan. Philippin.	1 Hp, 2 HP, 5 HP quantity will be delivered for China near day.
Motor for sawing machine	Iwai Sangyo k.k. Hattori Boeki k.k.	Expect to be received order for India, Mexico & China from these foreign trade Co.

## 9. Scale of proposed change in physical facilities.

In wartime, super and precision machineries had been concentrated to Military Arsenals or its factories ordered by Japanese Military Authorities, after war end, manufacturers for Tool machines can't reach to the opportunity the precise machinery, therefore we could not be handed these machines. After authorized use of Reparation machine, remove and install to the place of the attached plan and to be used available. Place, to be installed is in the plan of house for preventing from fire, which is built of iron.

## 10. Intended expense for Authorized Use.

- a. Materials, be needed                      ¥ 408,000.00
- b. Labor    ¥ 481,000.00

## 11. Plan and Location to continue the production after Reparation removal.

In case Reparation removal, those are only 6 % of all our equipment, therefore it will not be influenced to continue the production, but the efficiency and precision will be decreased because those are excellent machines which expect to the equipment.

*Michiya Tomimitsu*  
 Michiya Tomimitsu  
 Plant Master,  
 Shinko Denki k.k.



## List of Facilities for Application

Code No. 23-9, 23-12,  
 Name of Plant. Kusu Factory, Nagoya Army Arsenal.  
 Tsu Naval Arsenal.  
 Address of Plant. Kusu-cho, Mie-gun, Mie Pref.  
 Komori, Tsu city, Mie Pref.

## 1. Machinery

Inv. No.	Name of Machinery	Brief Specifications	Qt.	Remarks
23-9-838	Boring Machine	Jig, table size 1500 x 1200 mm	1	
" 701	Grinder	Snap gauge, table size 120 x 500 mm	1	
" 839	Boring Machine	Turning mill, table dia 364 mm	1	
" 901	Lathe	Turret, swing 570 mm bed length 2330 mm	1	
" 820	Lathe	Engine, swing 620 mm bed length 3950 mm	1	
" 178	Lathe	Engine, swing 360 mm bed length 1300 mm	1	
" 125	Lathe	"	1	
" 1014	Lathe	Engine, swing 460 mm bed length 2505 mm	1	
" 1022	Lathe	"	1	
" 445	Lathe	"	1	
" 438	Lathe	"	1	
" 554	Lathe	"	1	
" 638	Lathe	Engine, swing 520 mm bed length 3030 mm	1	
" 633	Lathe	Thread swing 400 mm bed length 2240 mm	1	
" 50	Grinder	Tool & cutter, table size 1062 x 152 mm	1	
" 517	Grinder	Bit (lathe tool), 1 HP	1	
" 767	Hack saw	1 HP	1	
" 1026	Lathe	Turret, swing 570 mm bed length 2330 mm	1	
23-12- 797	Grinder	Surface, Table size 450 x 150 mm	1	
" 1259	Grinder	"	1	
" 1117	Grinder	Surface, table size 600 x 200 mm	1	
" 794	Grinder	"	1	
" 788	Grinder	Surface, table dia 650 mm	1	
" 353	Boring Machine	Turning mill, table dia 950 mm	1	
" 334	Lathe	Turret, swing 560 mm bed length 2720 mm	1	
" 717	Drilling Machine	Radial, arm length 1250mm	1	
" 718	Drilling Machine	Radial, arm length 1470mm	1	
" 131	Lathe	Engine, swing 700 mm bed length 3600 mm	1	

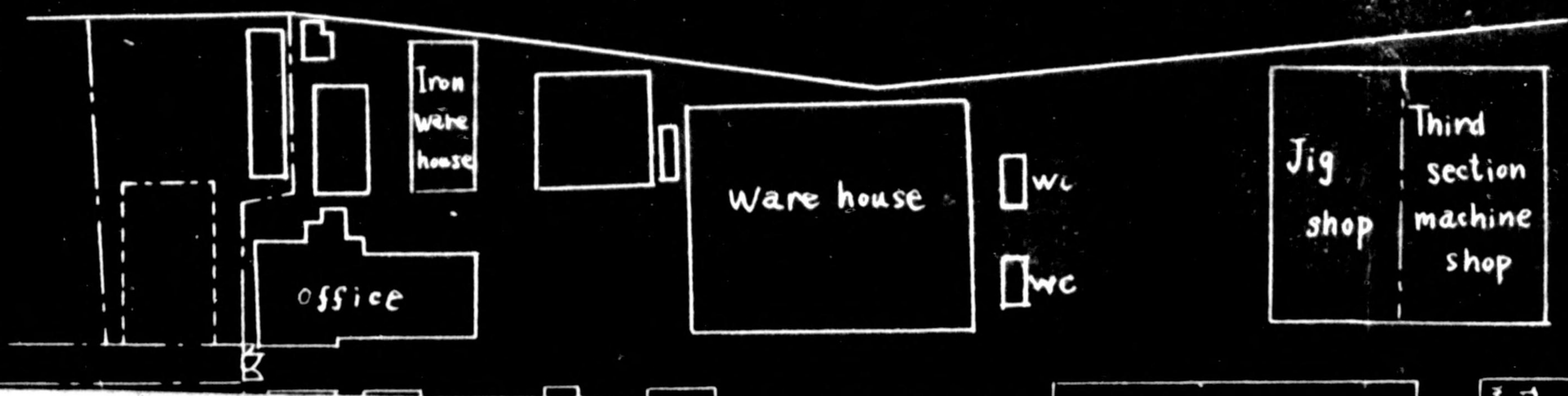


Inv. No.	Name of Machinery	Brief Specifications	Qt.	Remarks
23-12-1116	Grinder	Internal, swing 330 mm	1	
" 524	Milling	Vertical, 860 x 350 mm	1	
" 693	Drilling Machine	swing 600 mm	1	
			Total	
			31	



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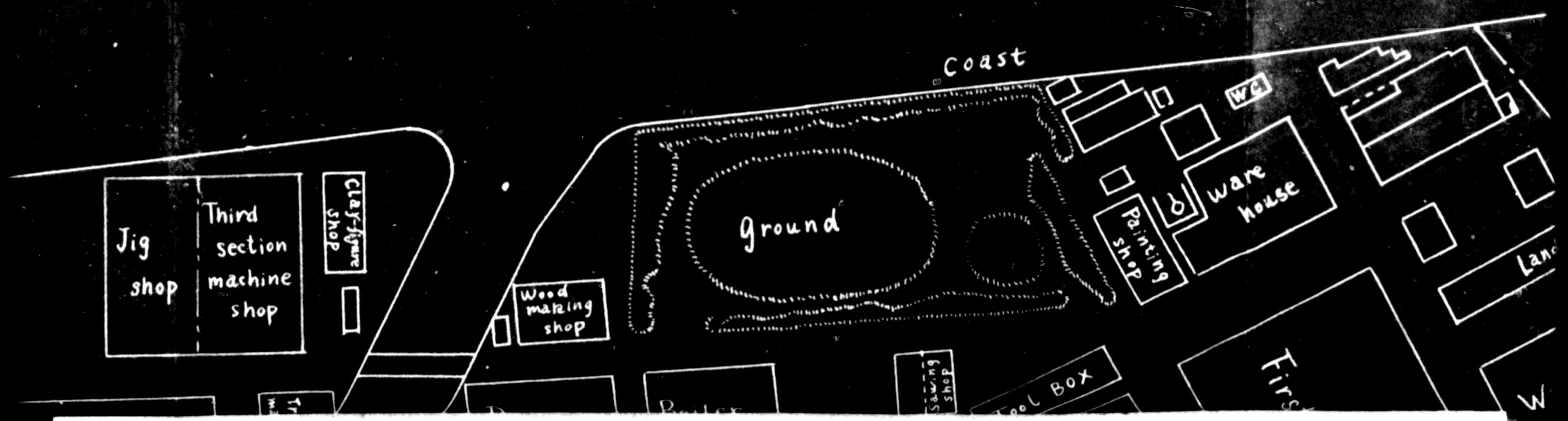
Shinkō Electric Co. L





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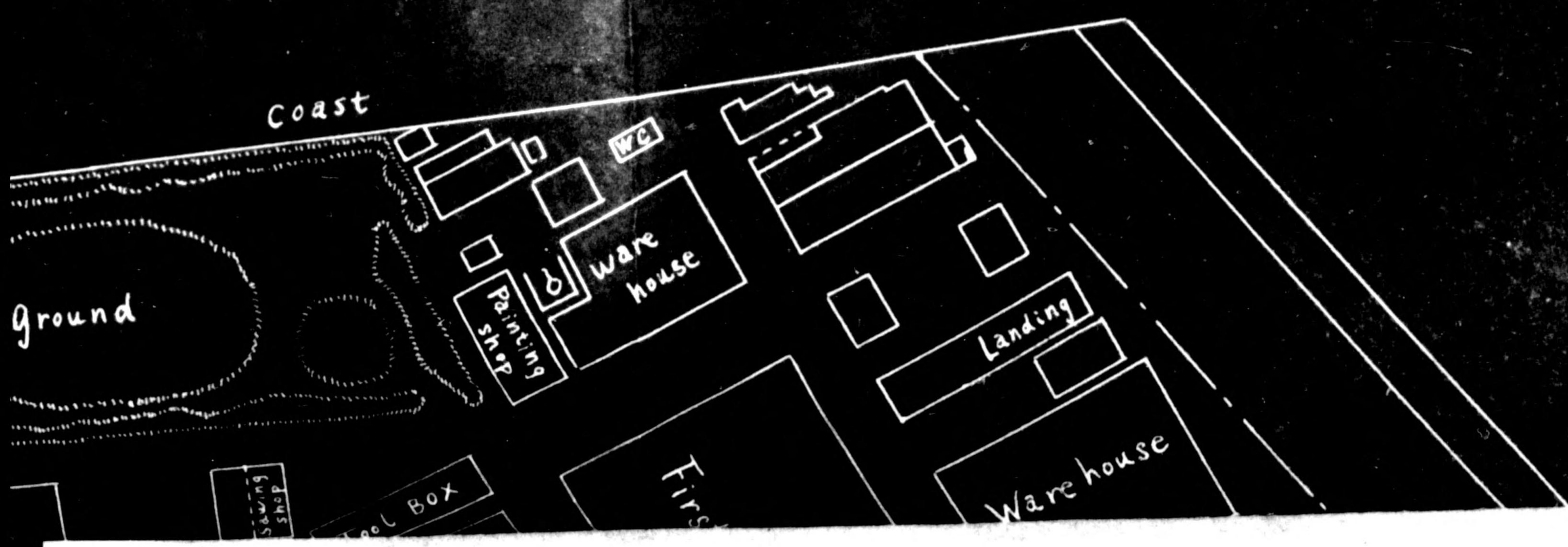
Electric Co. LTD. Toba Plant S = 1/1200





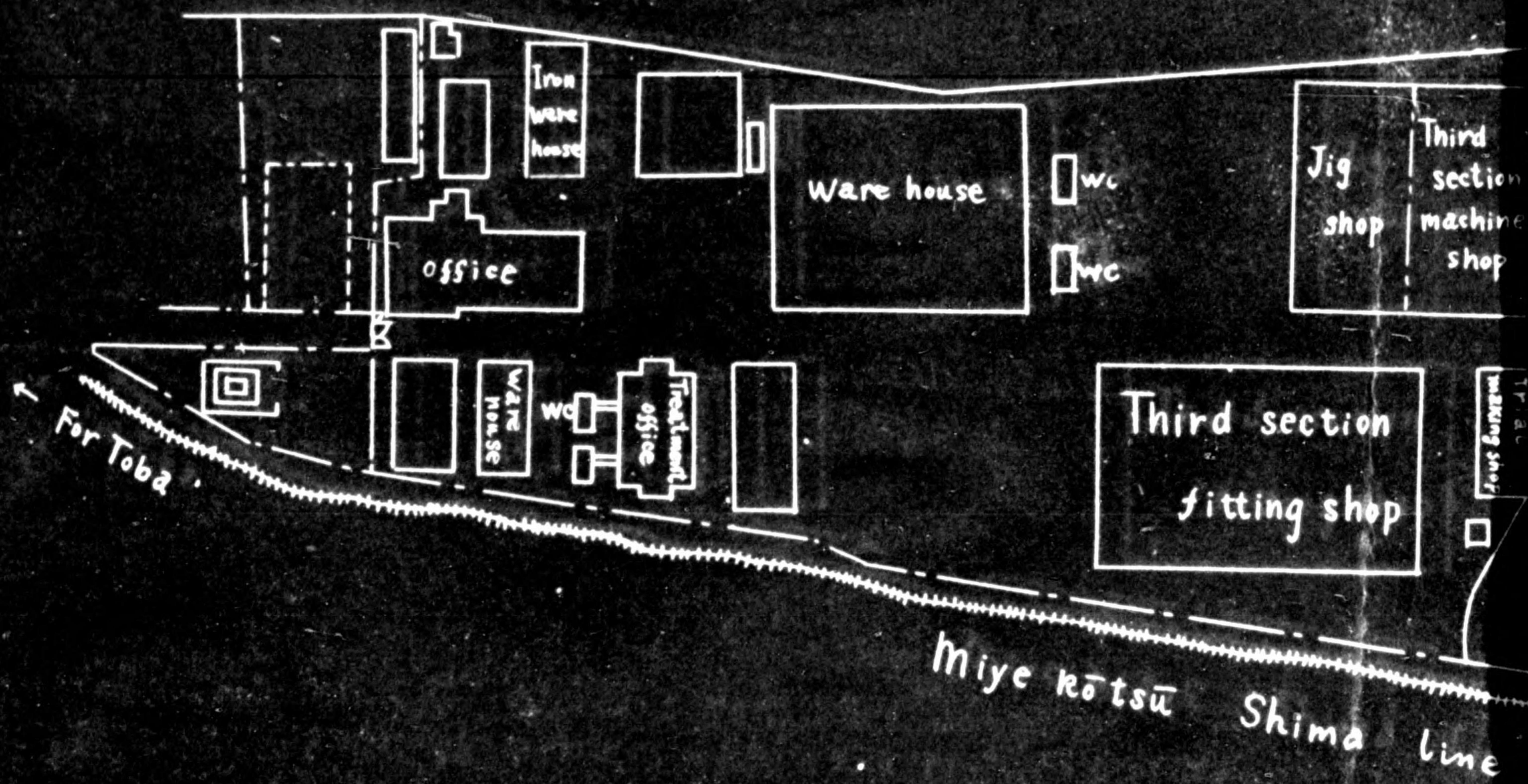
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S = 1/1200



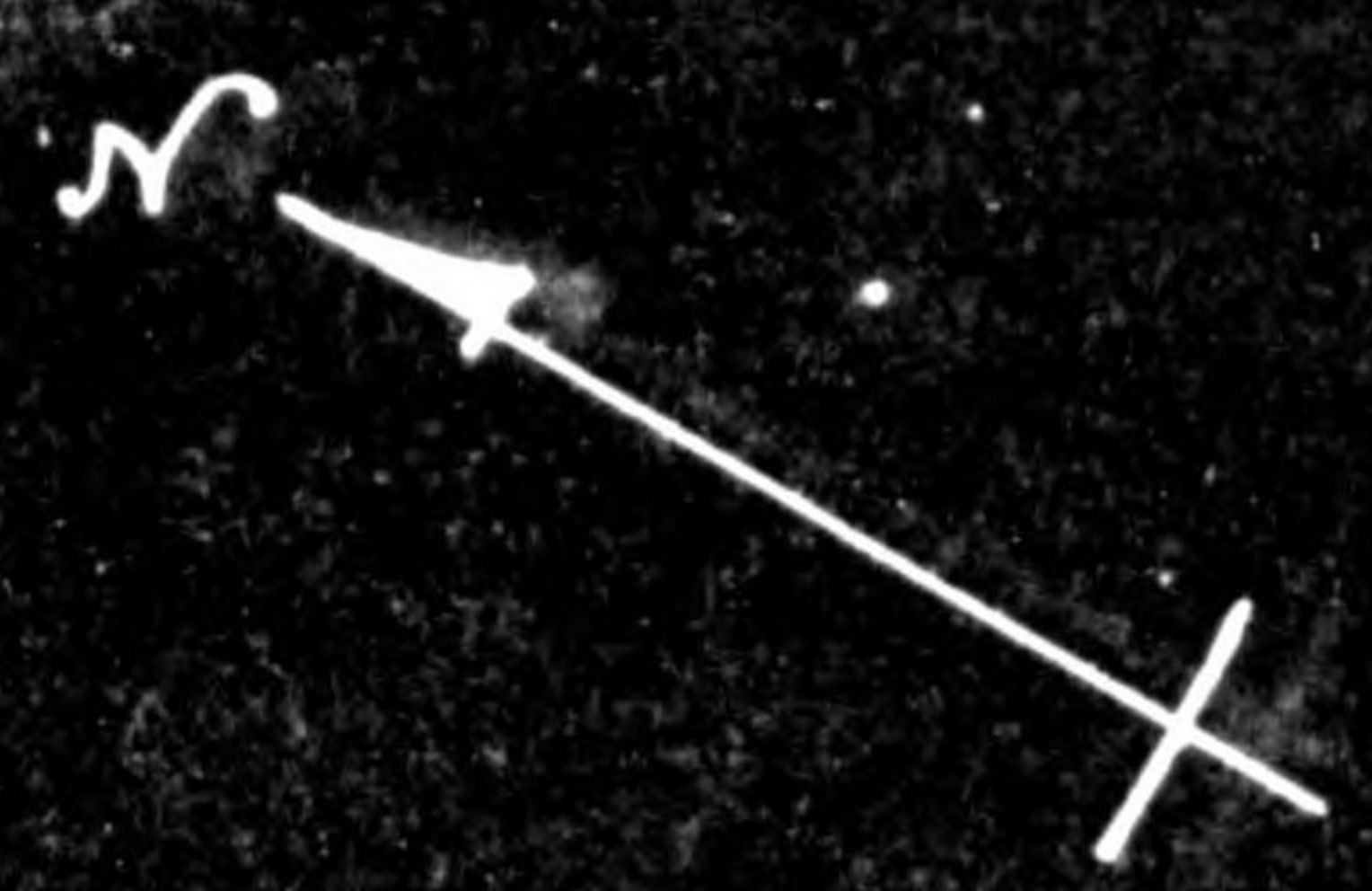
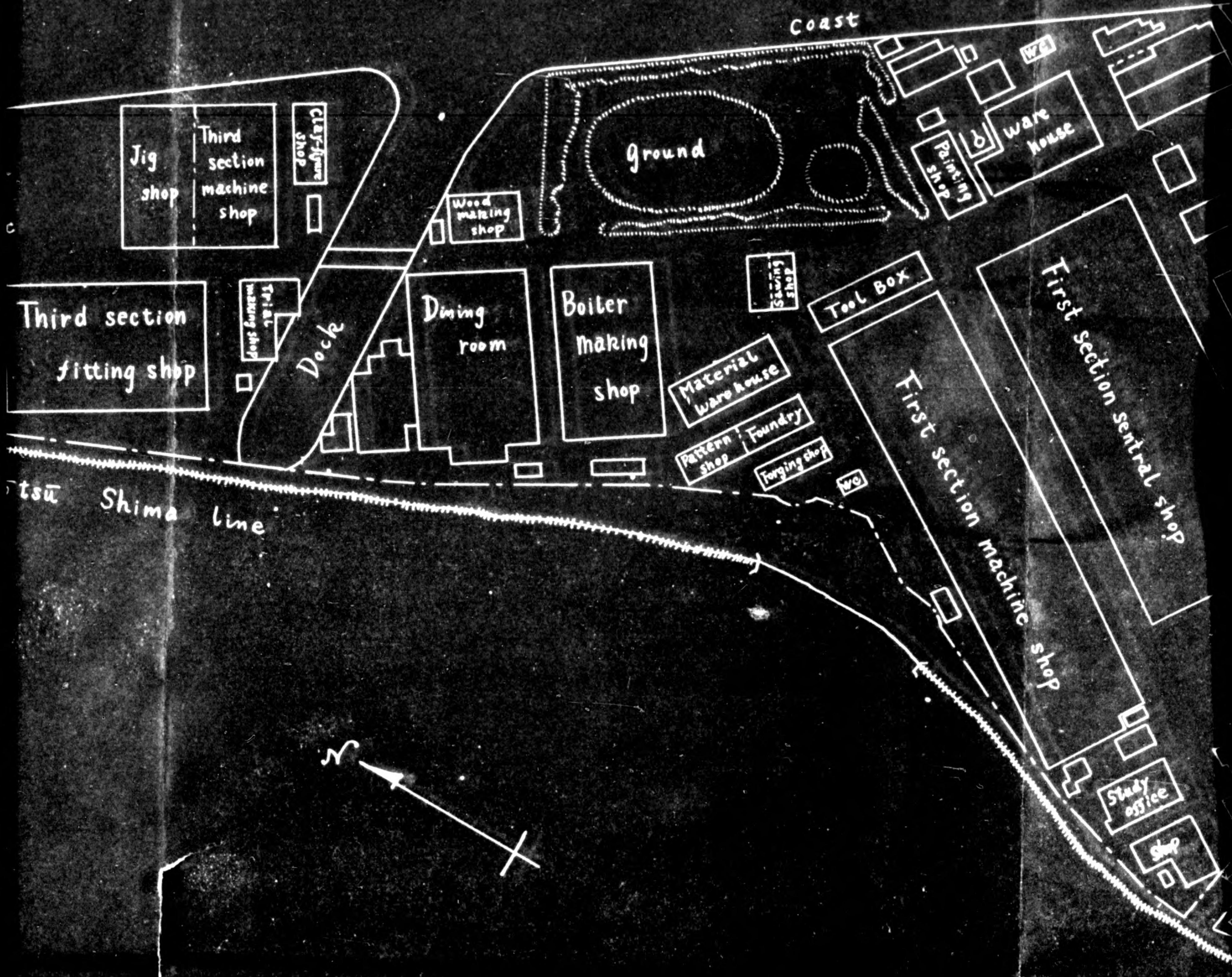


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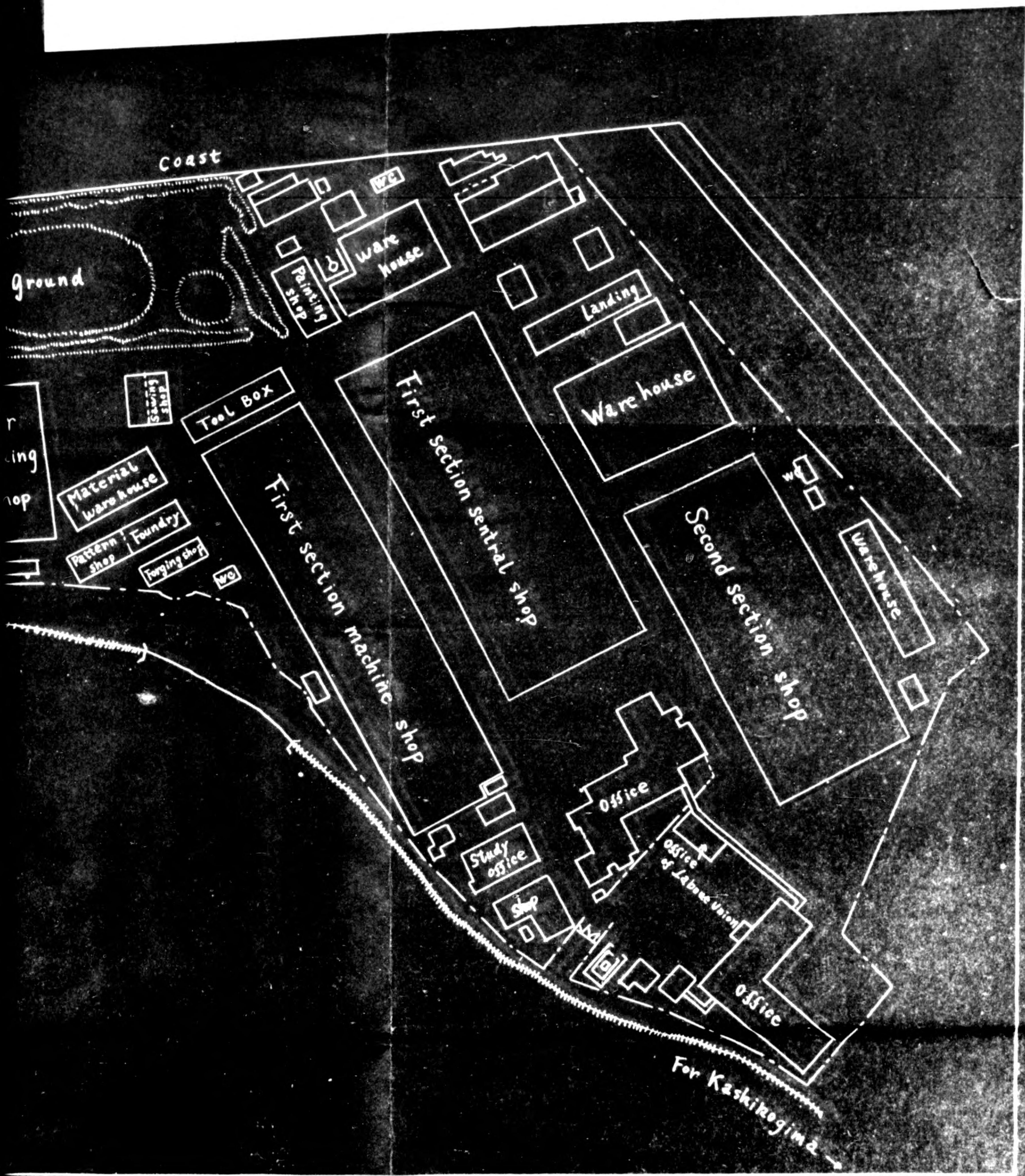


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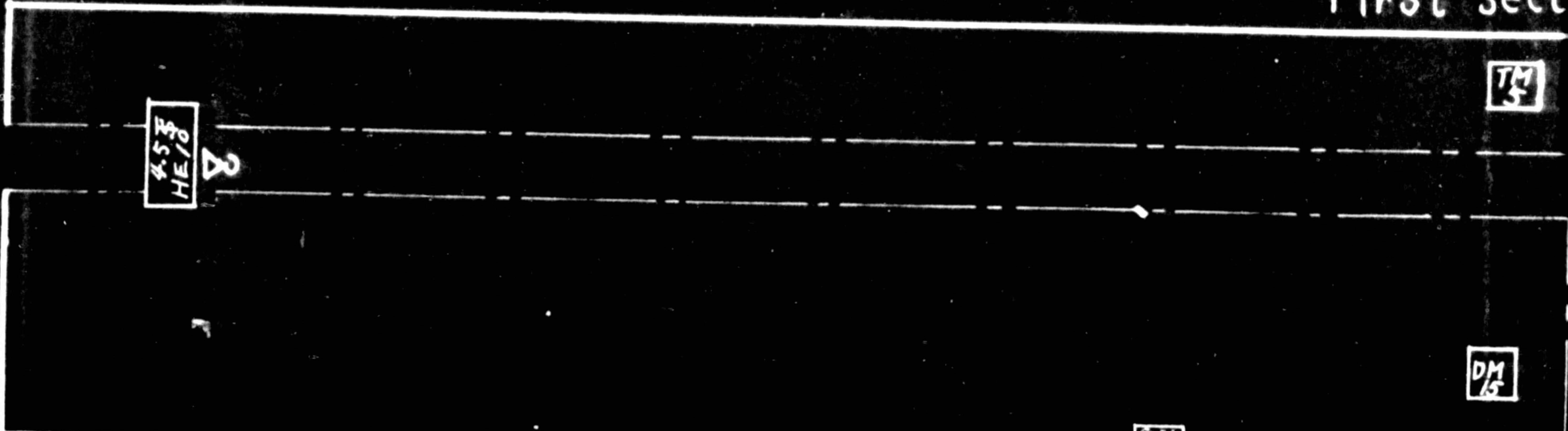
注  八 賠償機械  
 八 官有機械

第一課 山工場機械配置圖

First section machine shop

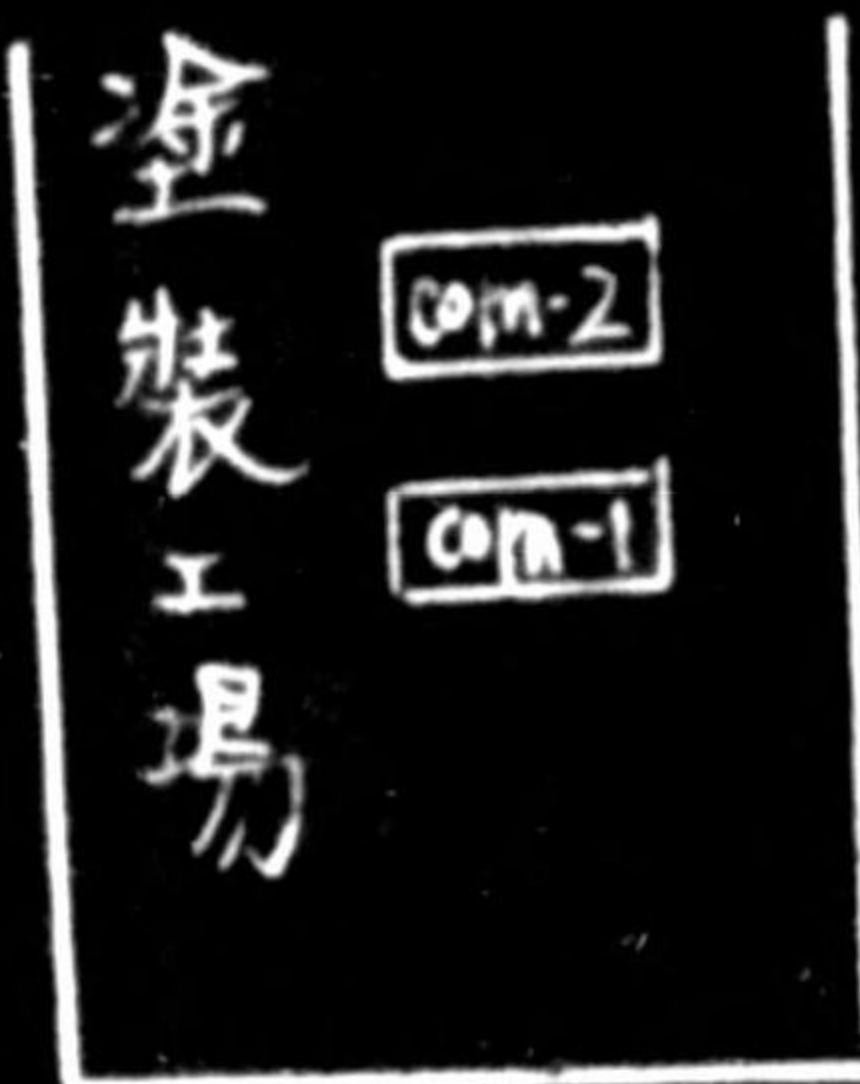
第一  
八

First sect

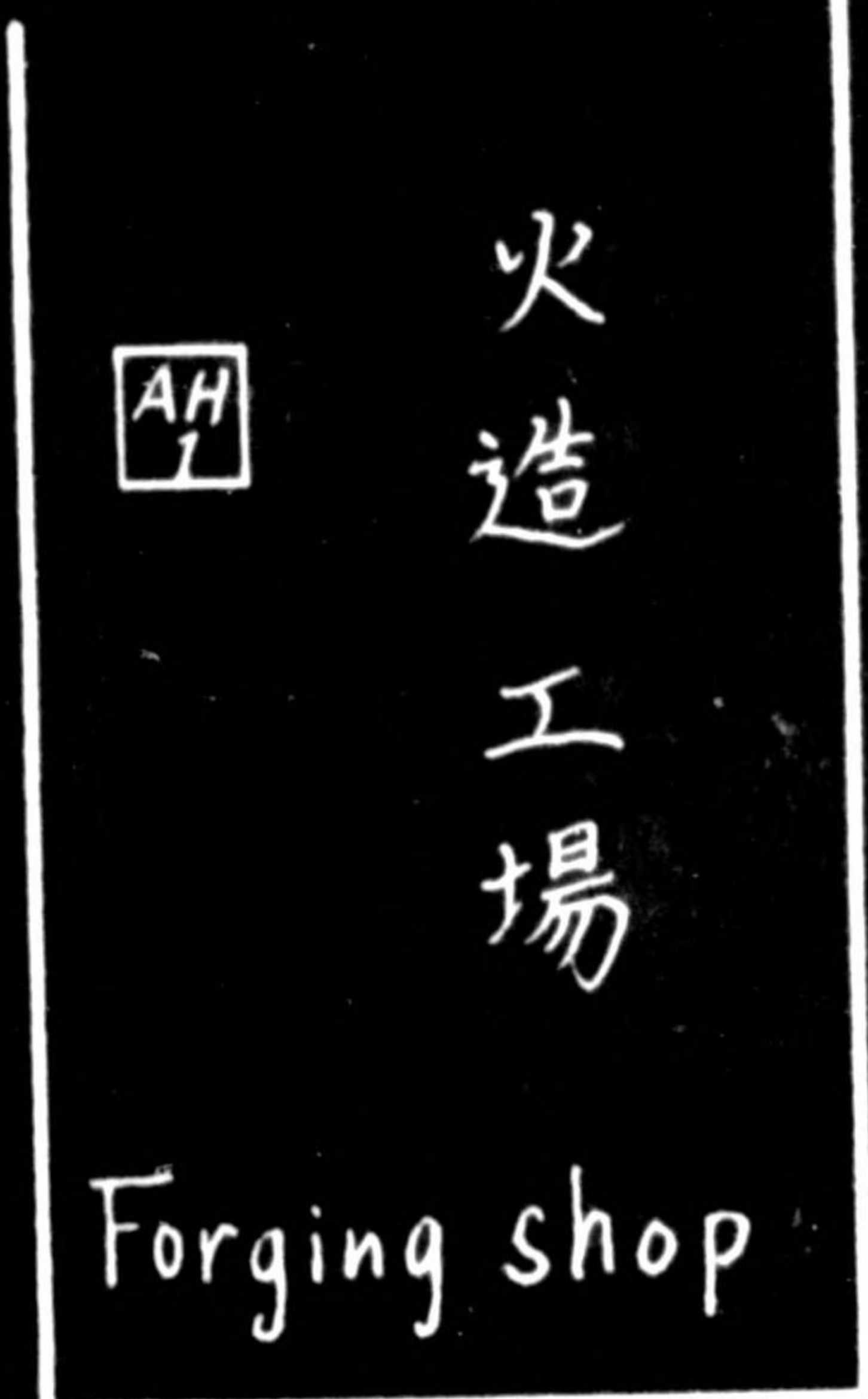




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Painting shop



Forging shop

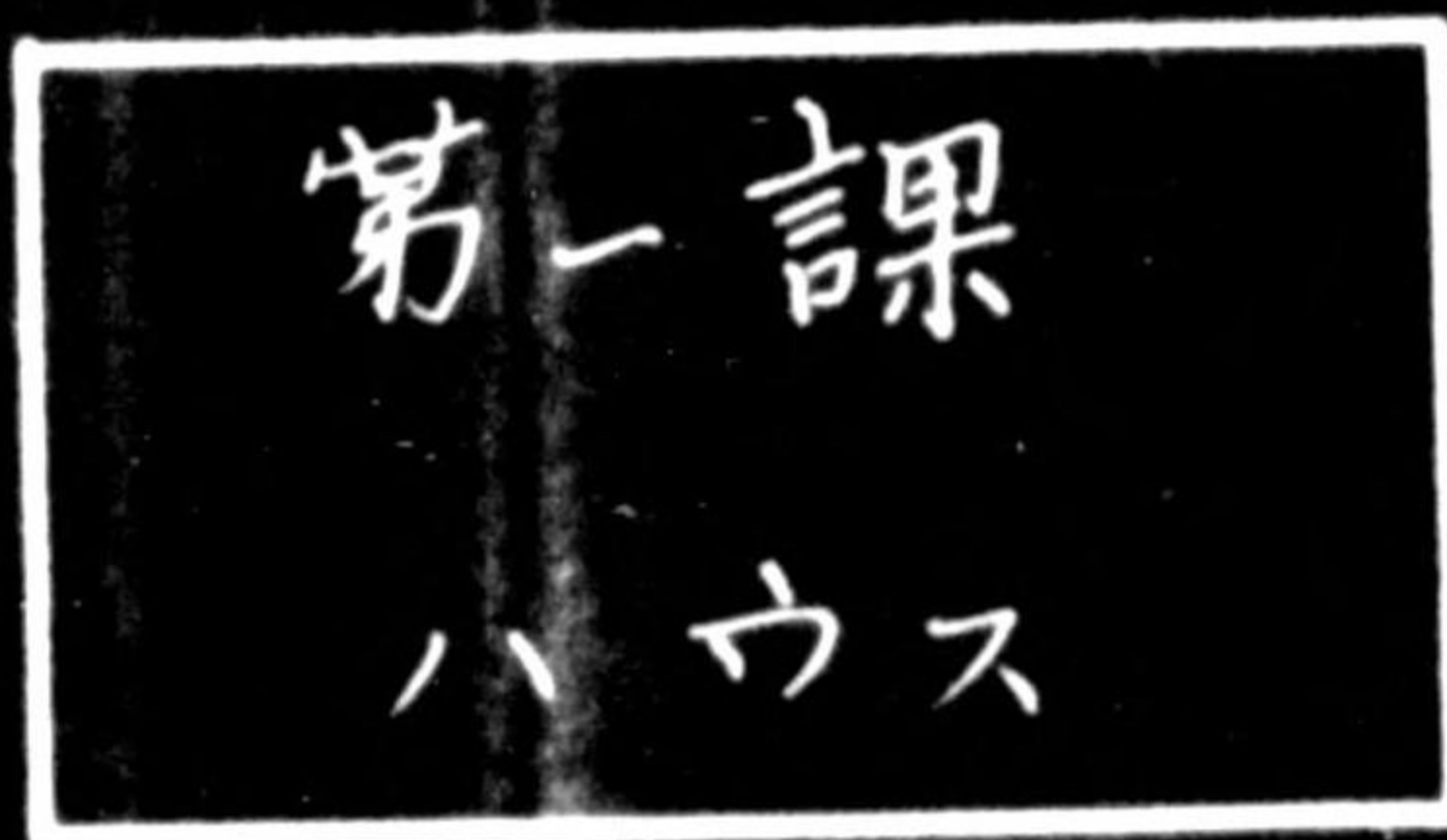


Foundry

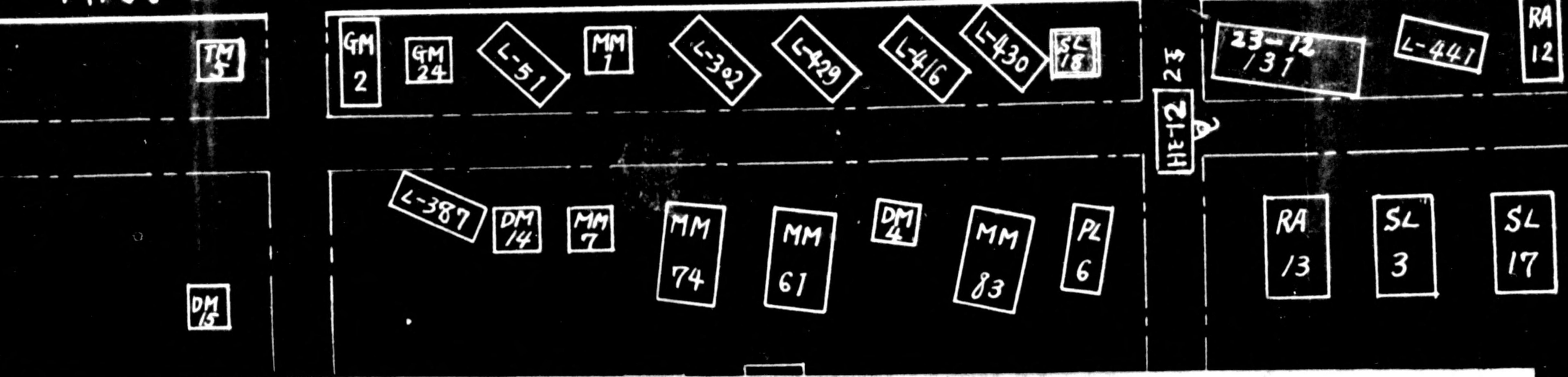
Pattern shop



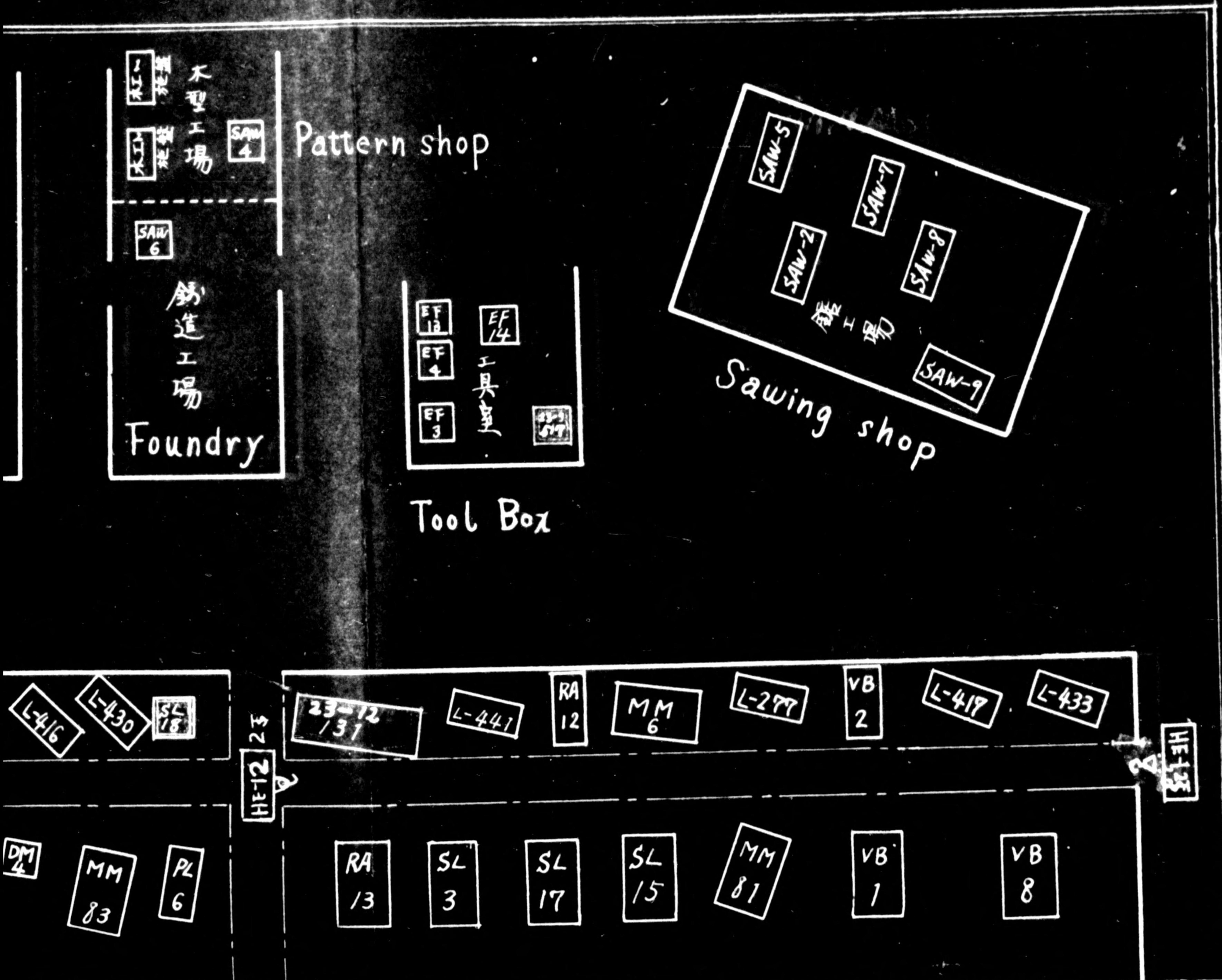
Tool Box



First section office







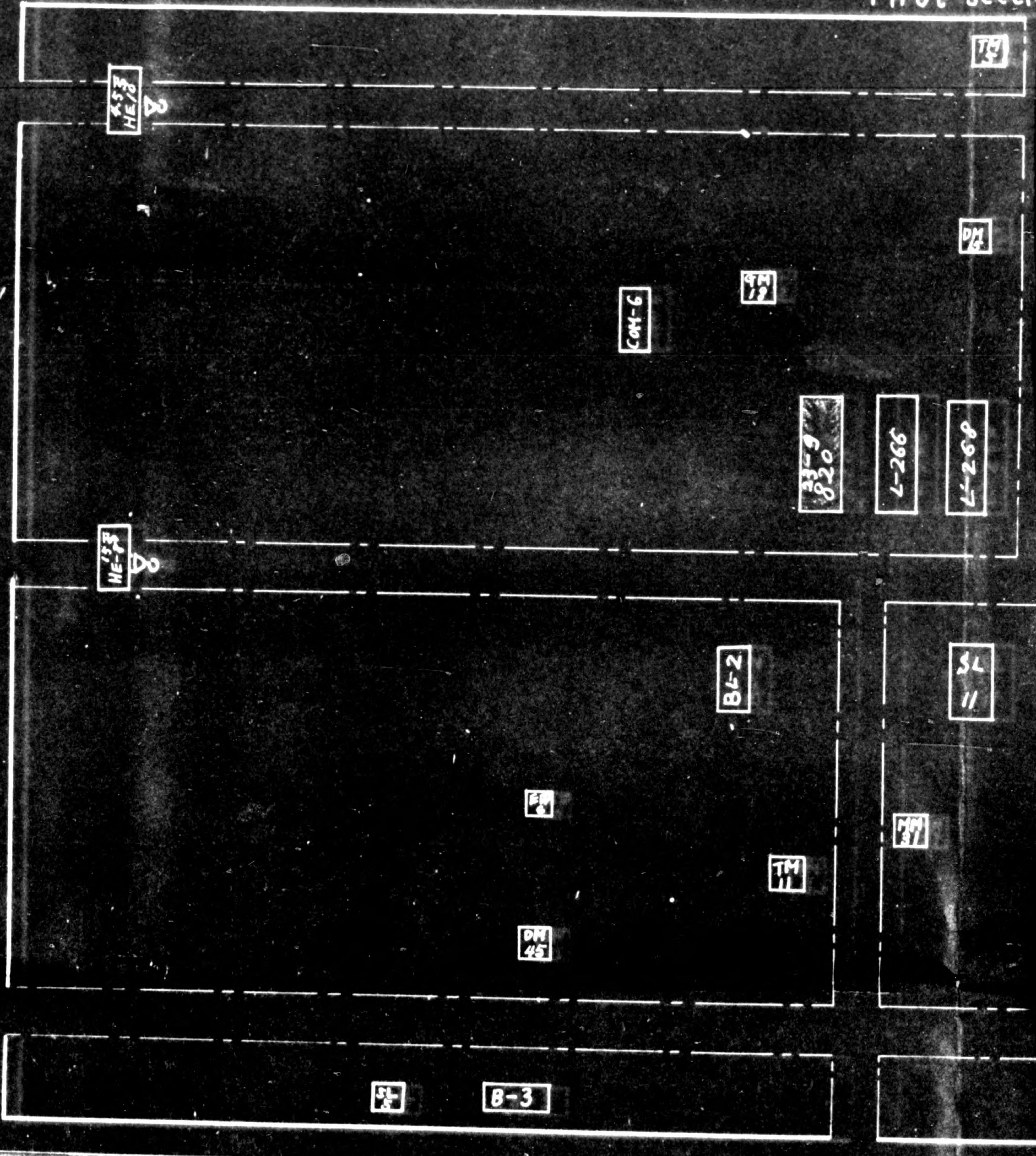


First section machine shop

第一言

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First section





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第一課

ハウス

Tool Box

First section office

17

GM 2 GM 24 L-51 MM 7 L-302 L-429 L-416 L-430 SL 18

23-12 / 131

L-441

RA 12

HE12 23

DM 14

L-387 DM 14 MM 7 MM 74 MM 61 DM 4 MM 83 PL 6

RA 13 SL 3 SL 17

MM 70 MM 71 SL 16 MM 72 RA 6 VB-7

RA 11

RA 9 BM 5 BM 9 BM 8

33-9 820 L-266 L-268

SL 12

HE-12 23

SL 11 L 62

PL 7 PL 3 RA 8 BM 4 BM 1 BM 2 BM 6

BM 7 VB 9

MM 37

L-368 L-369 MM 22 GM-1 L-368 L-384 L-50

SL 4 MM 80 SH 6 SL 10

DM 34 DM-19 L-5 HE-12 23 MM 49 MM 8

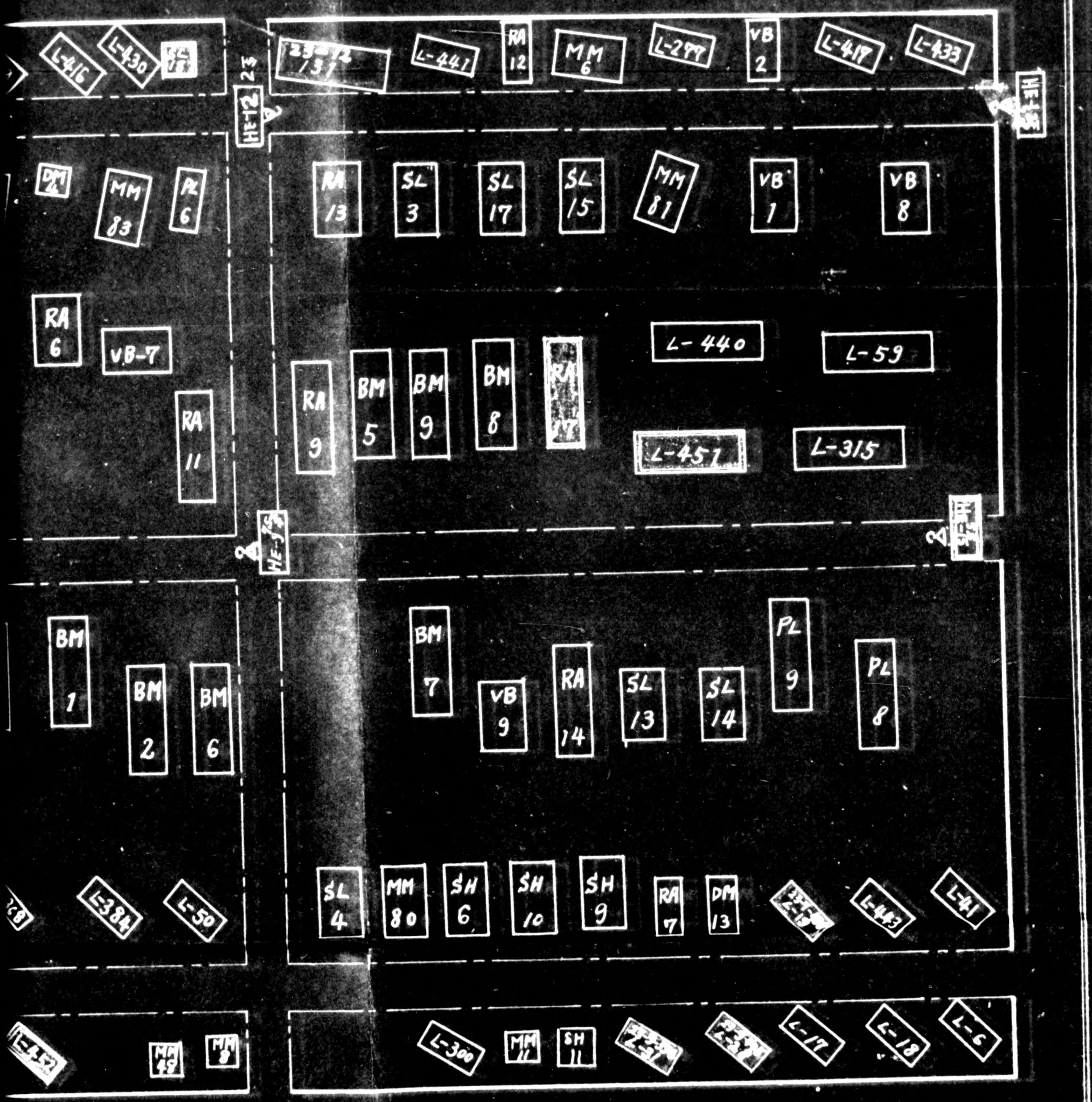
L-300 MM 11

TM 11



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# Tool Box



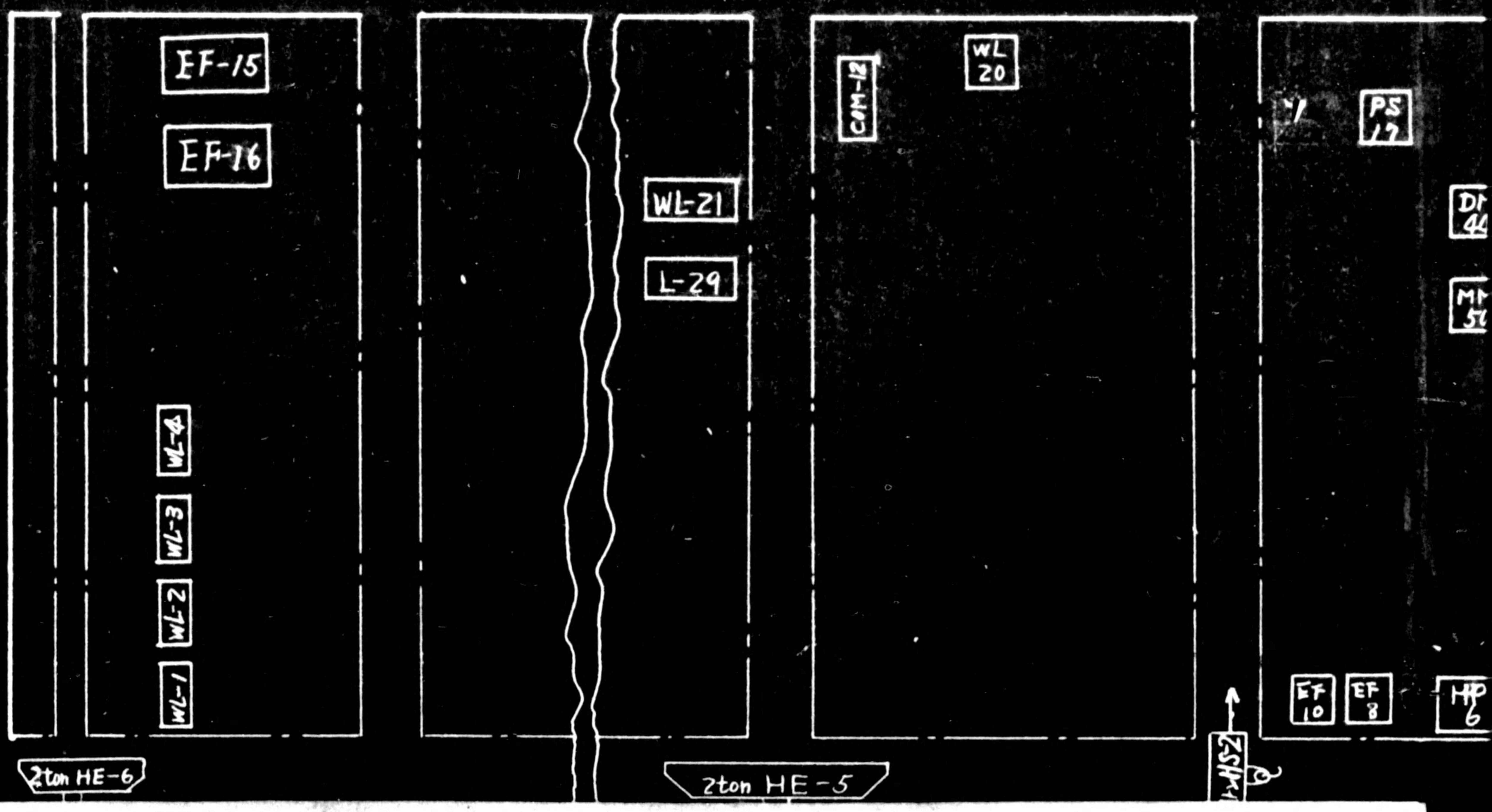
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第二課

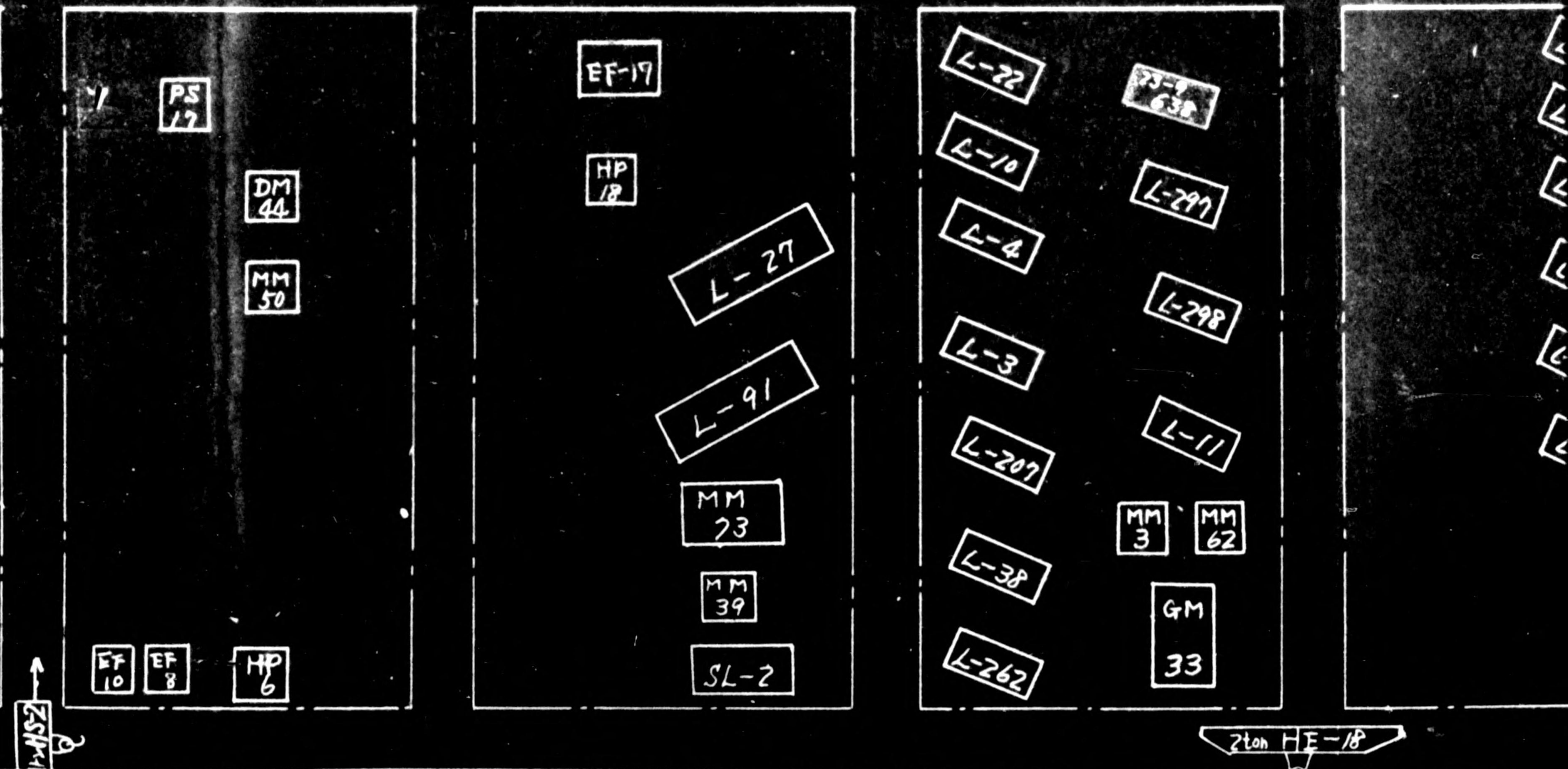
First sect





# 第一課中工場機械配置圖

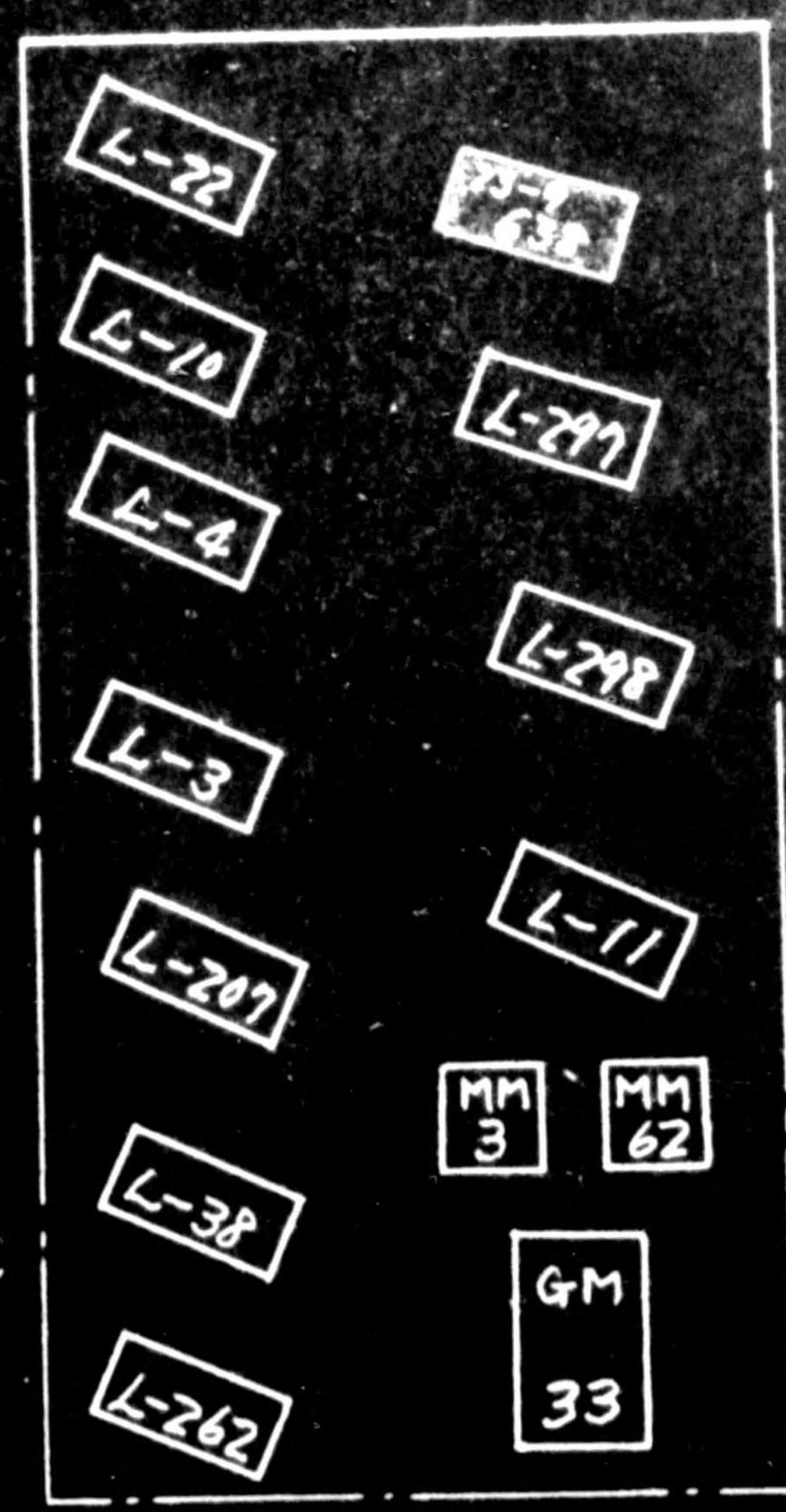
First section central shop



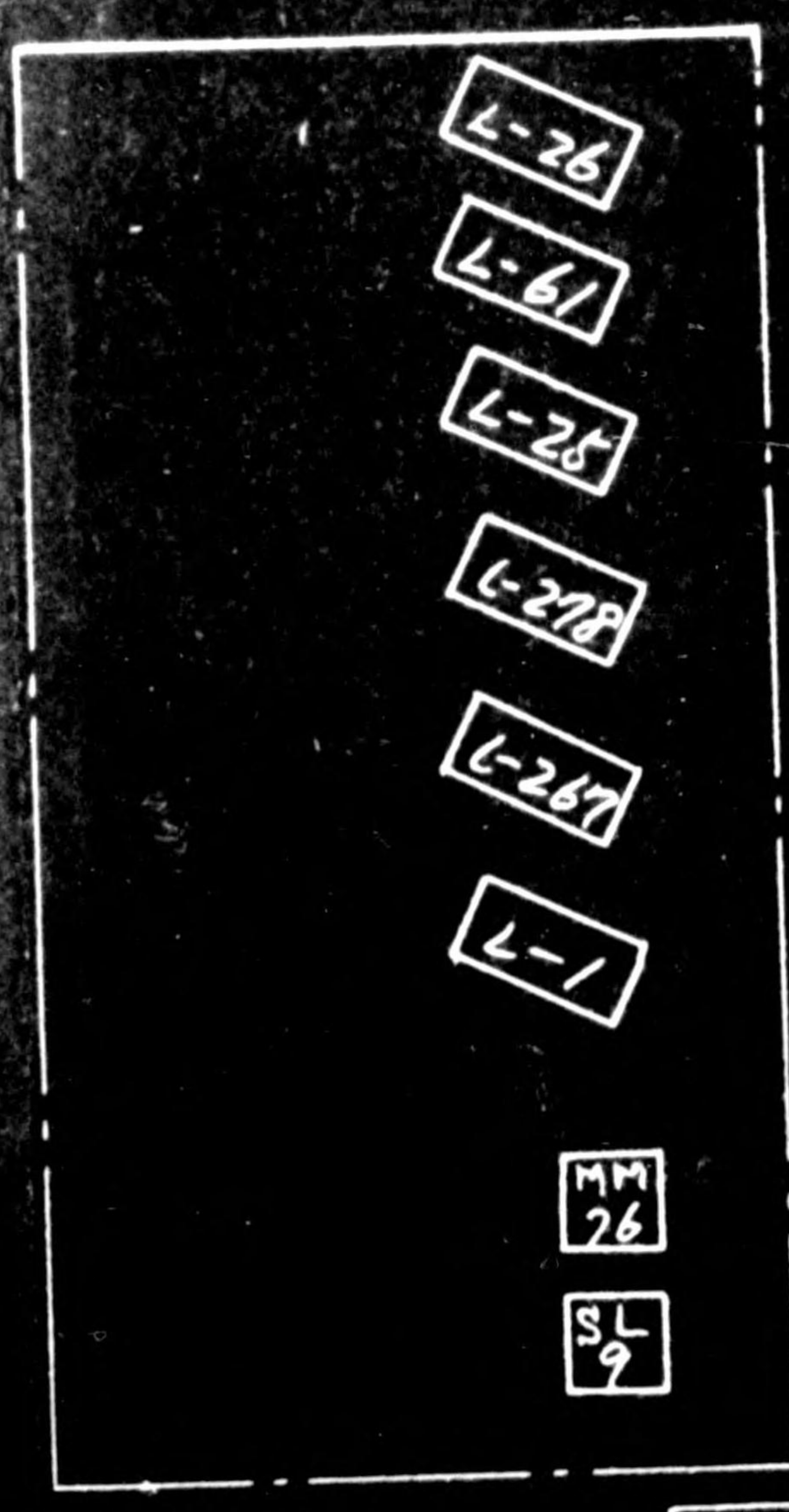


置圖

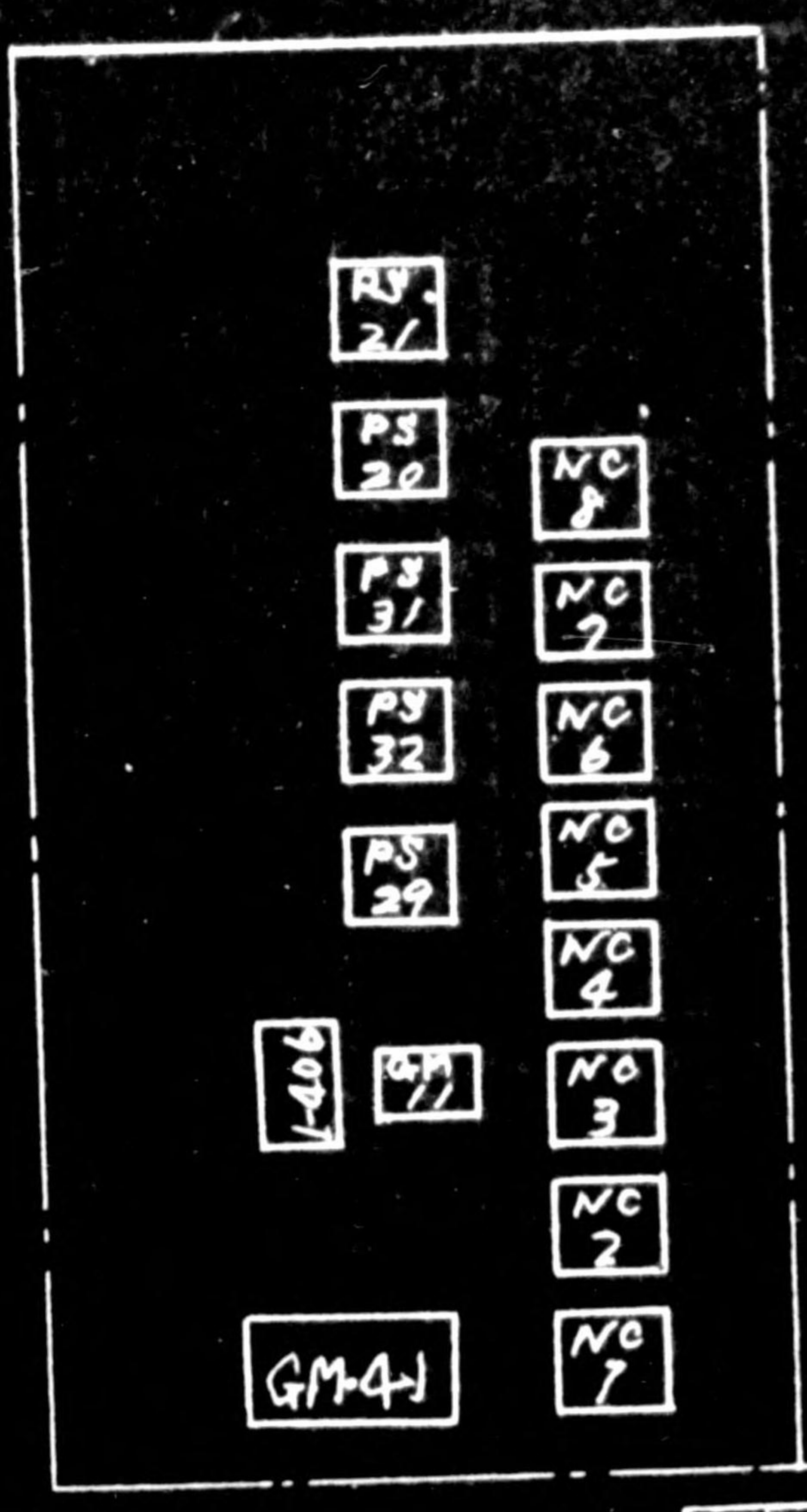
(24-10-12 現在)



2ton HE-18



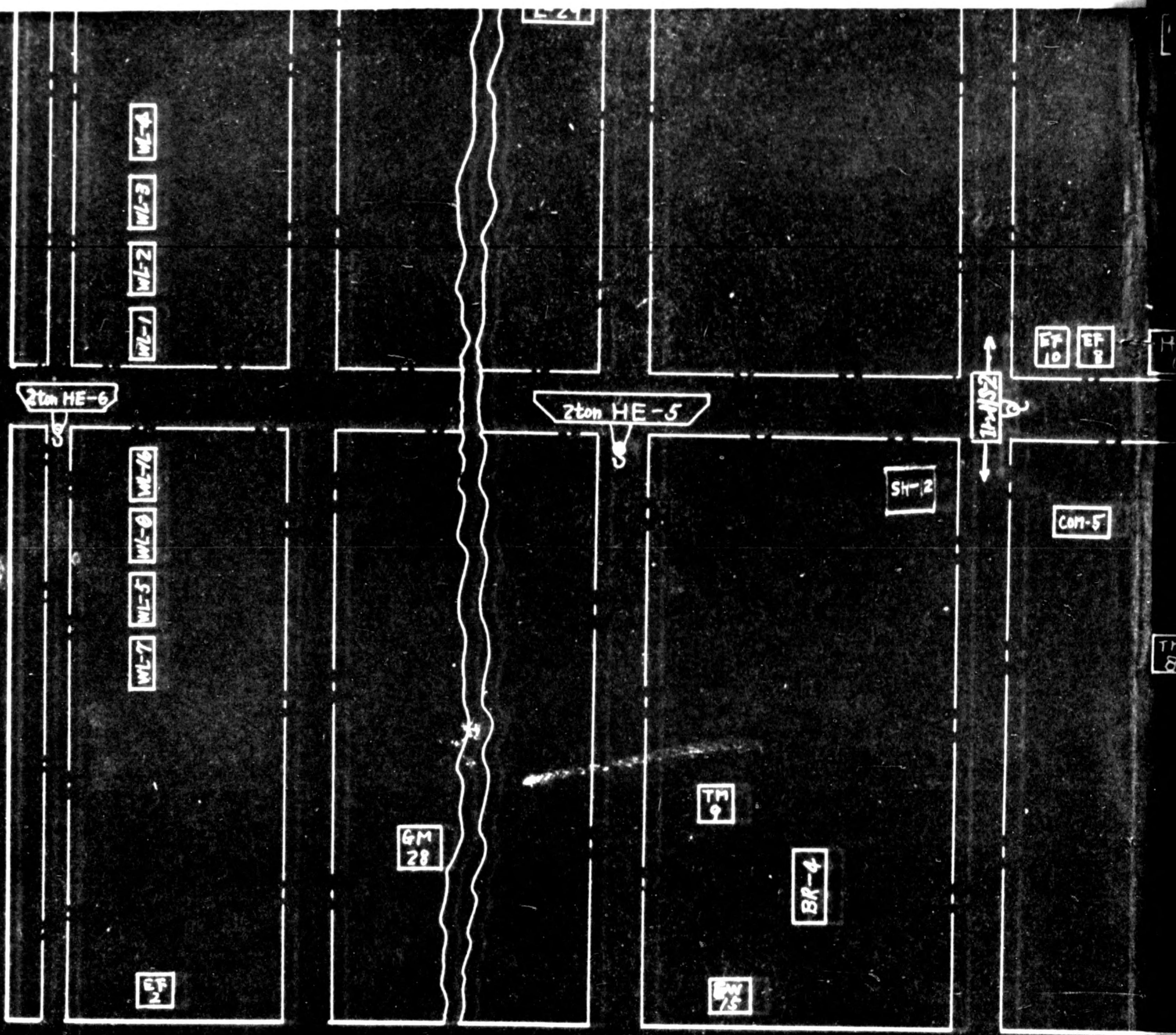
2ton HE-4



2ton HE-3



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MM 50

L-21

L-91

MM 73

MM 39

SL-2

L-3

L-298

L-207

L-11

MM 3

MM 62

L-38

GM

33

L-262

EF 10

EF 8

HP 6

21m HE-10

21m HE-10

SH-2

COM-5

TM 5

RA 16

RA 3

MM 78

MM 82

MM 68

MM 13

RA 15

MM 2

MM 29

MM 51

MM 5

DM 5

SH-5

MM 14

DM 40

SIR-8

P-13

L-44-7

DM 11

PS 16

DM 55

L-422

L-415

L-46

L-444

L-105

L-257

L-16

L-213

L-436

L-374

L-12

L-115

L-172

L-69

L-107

L-218

L-369

L-57

L-22

DM 9

L-39

L-291

GC 2

MM 69

SW 5

ポンプ

PS 27

DM 43



L-298  
L-3  
L-207  
L-30  
L-262  
MM 3  
MM 62  
GM  
33

L-298  
L-267  
L-1  
MM 26  
SL 9

PS 31  
PS 32  
PS 39  
lead  
GM-4J  
NC 2  
NC 6  
NC 5  
NC 4  
NO 3  
NO 2  
NO 7

AS 6  
PS 5  
PS 4  
PS 3  
PS 2  
AS 1

2ton HE-10

2ton HE-4

2ton HE-3

L-415  
L-444  
L-46  
L-257  
L-16  
L-105  
L-213  
L-436  
L-12  
L-274  
L-49  
L-115  
L-17  
L-214  
L-62  
L-22  
L-369  
L-39  
L-297  
MM 69  
DM 9  
G.C 2

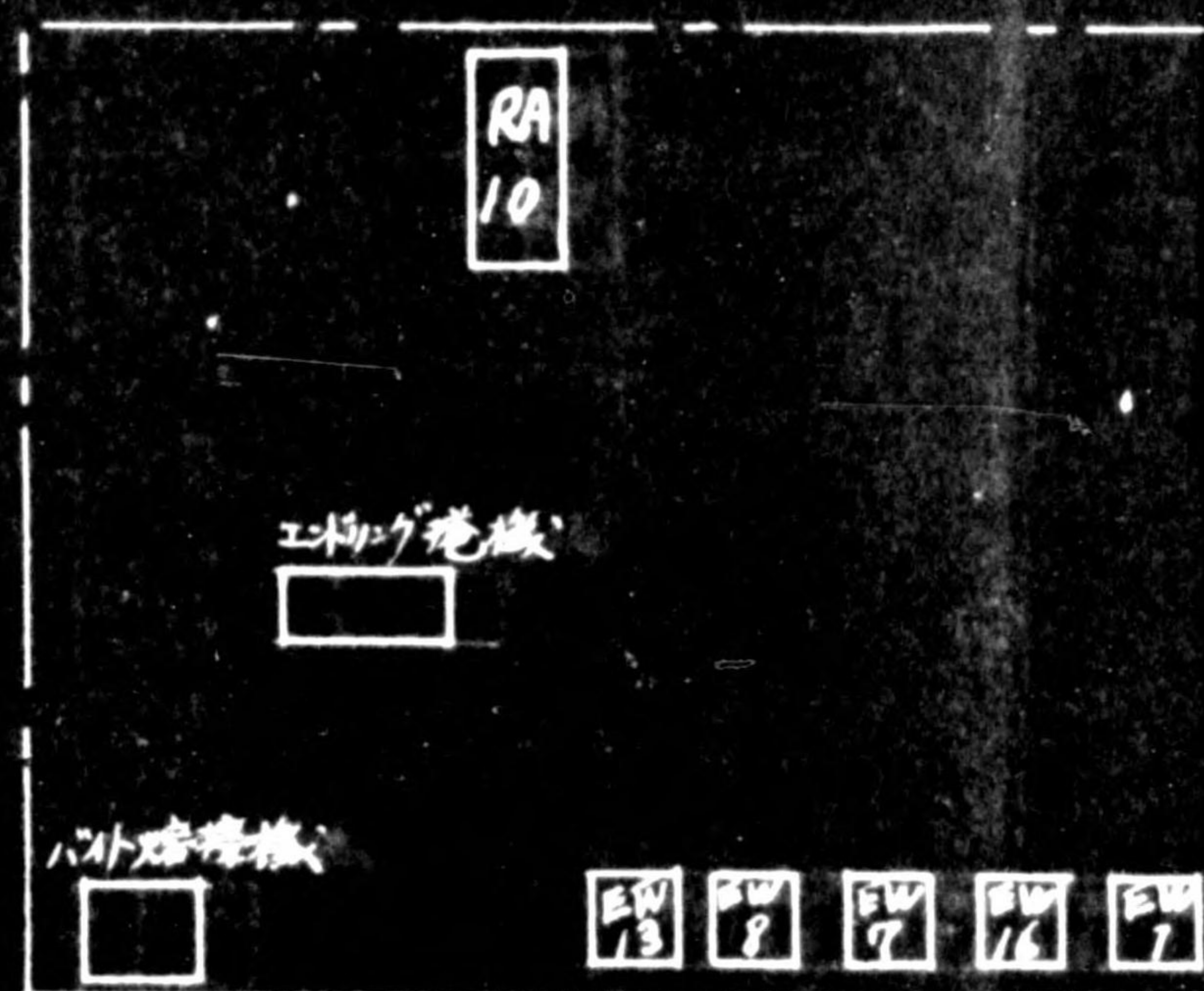
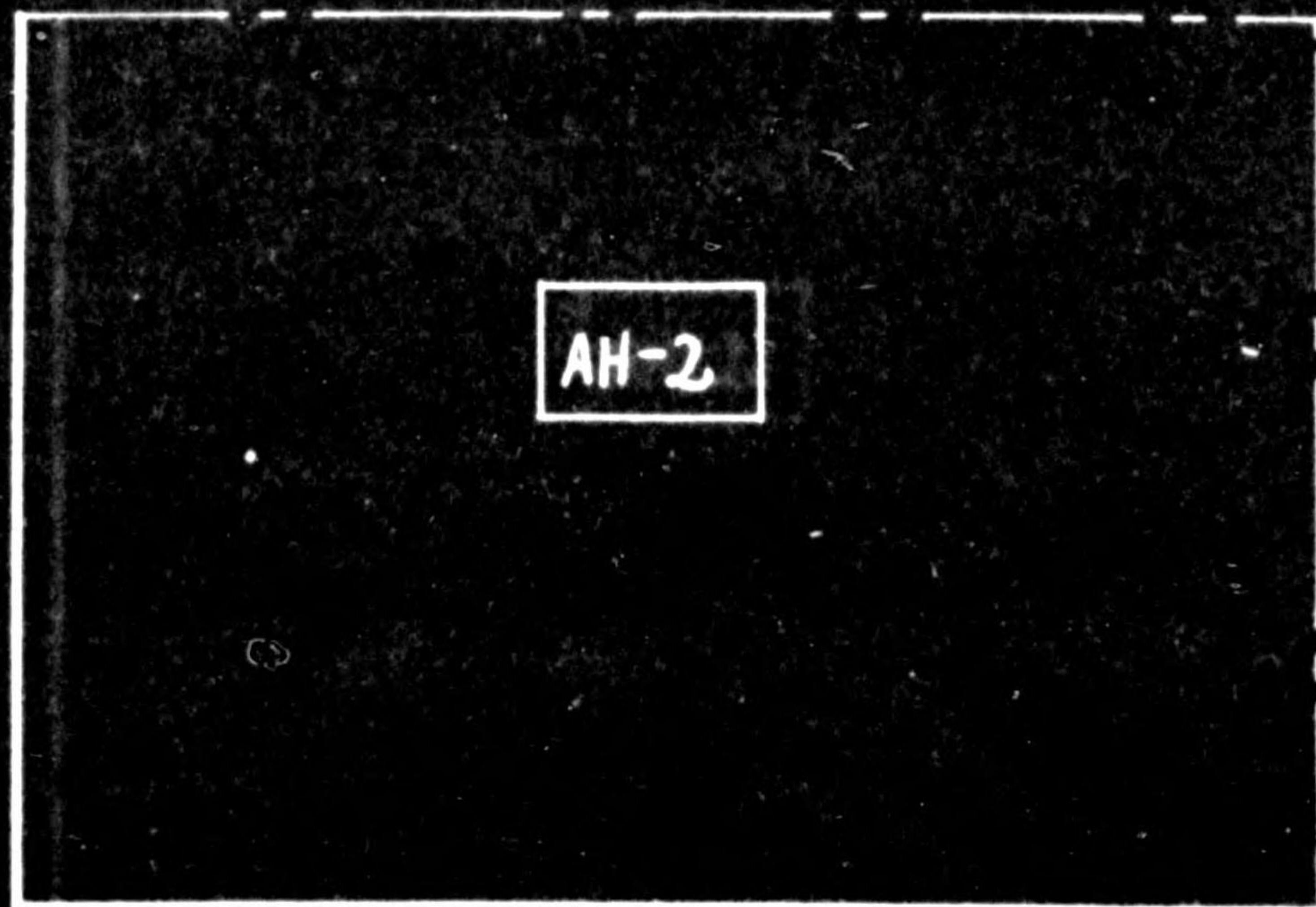
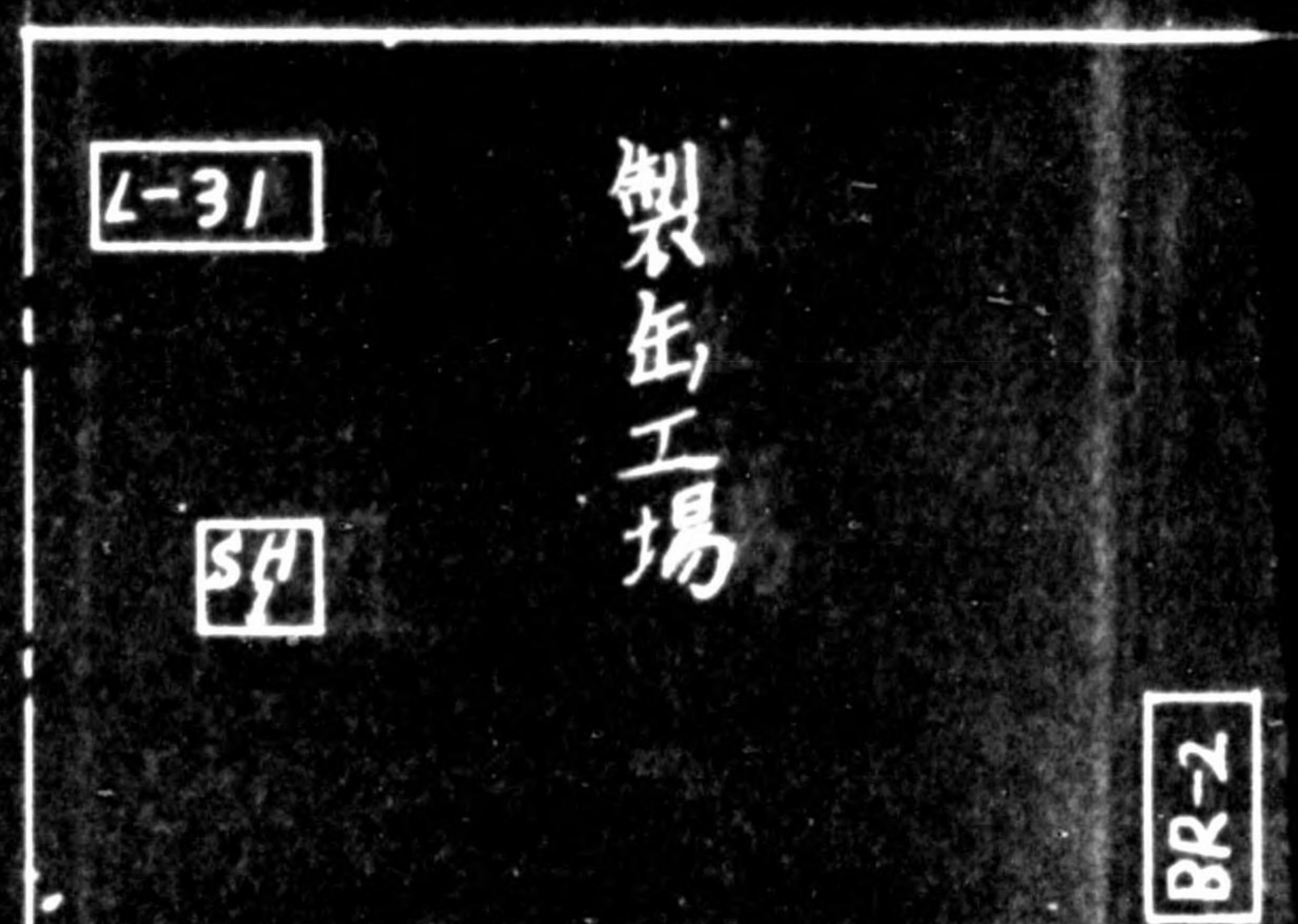
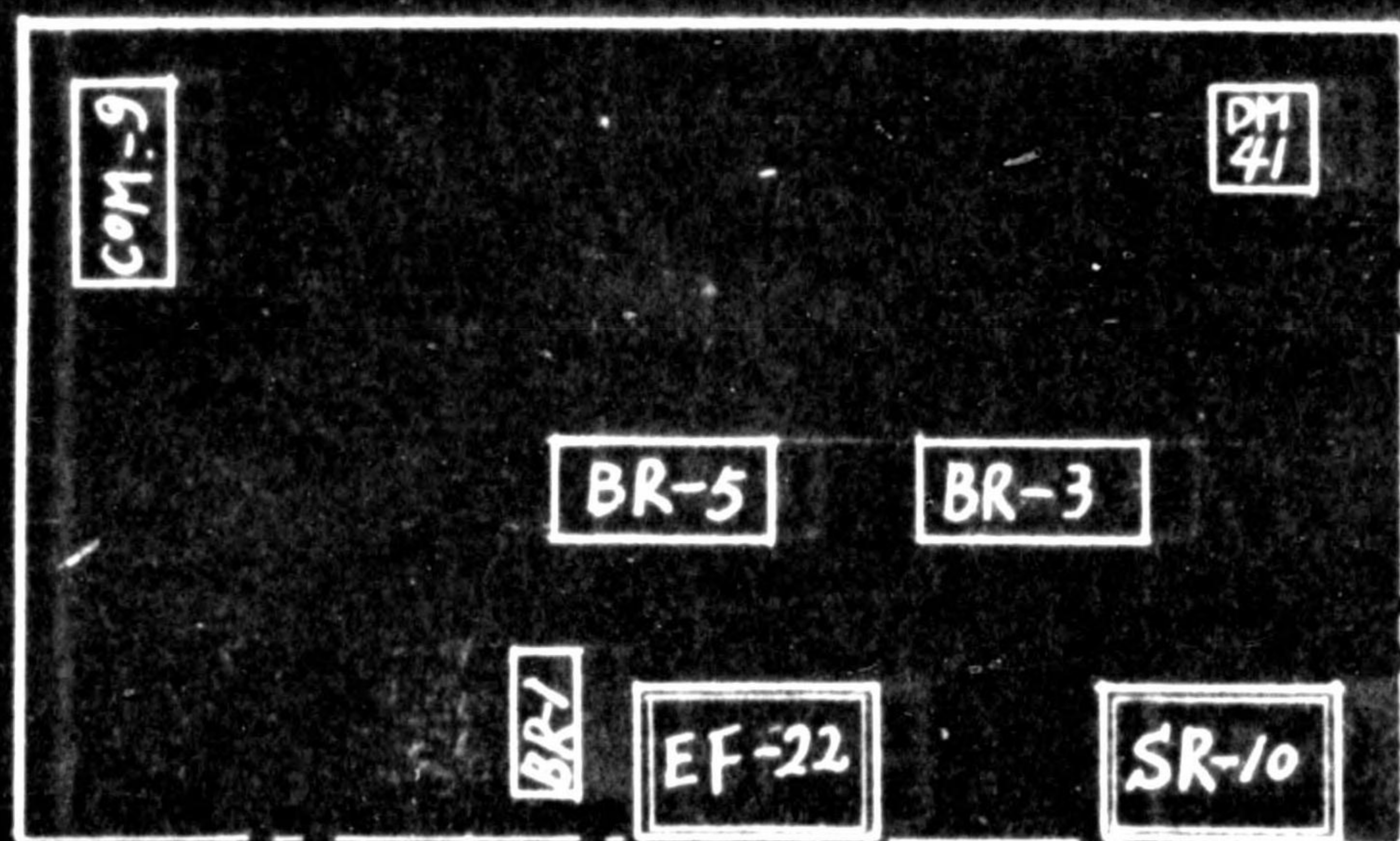
HP 1  
ポンプ  
PS 27  
PS 28  
DM 43

PS-11  
EF 7  
PS-13  
PS-44  
SW 1  
SW 2  
SR-2

PS-12  
PS-42  
SR-7



775013



Boiler making shop





BR-2



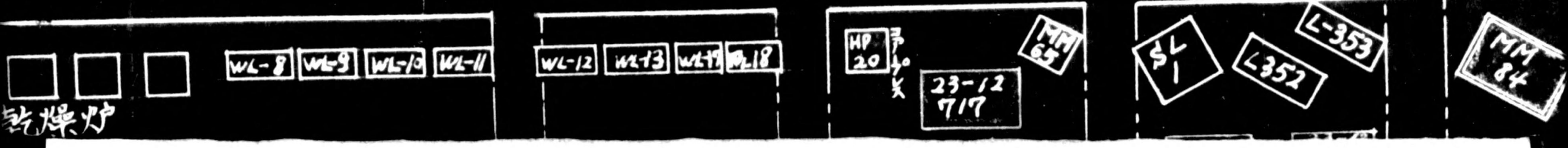
第二課, 製缶, 木工  
機械配置圖  $S=1/200$



Wood making shop

EW 8 EW 9 EW 10 EW 11 EW 12

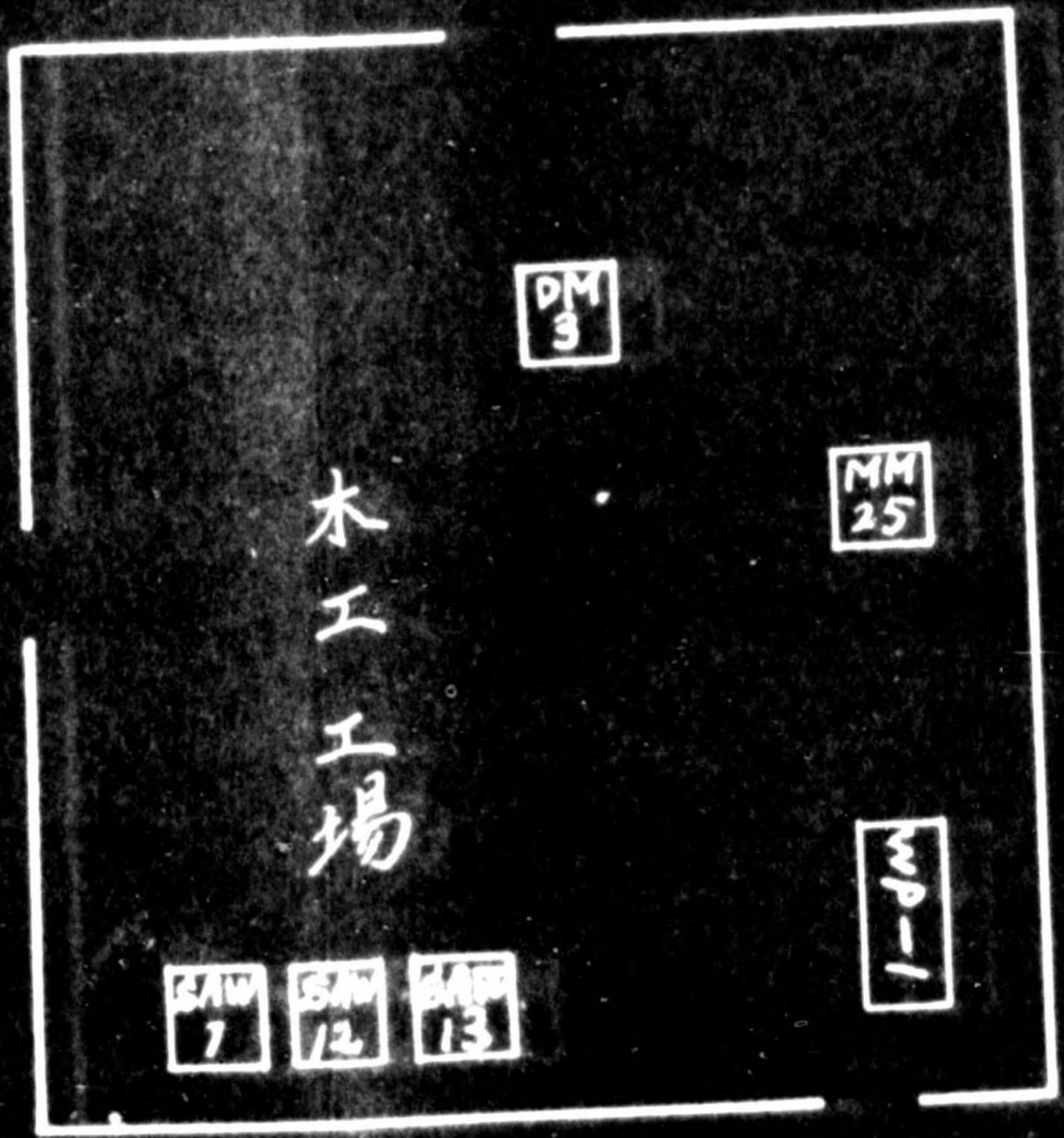
Second section shop





775013

木工  
S=2/200



Wood making shop



Landing shop



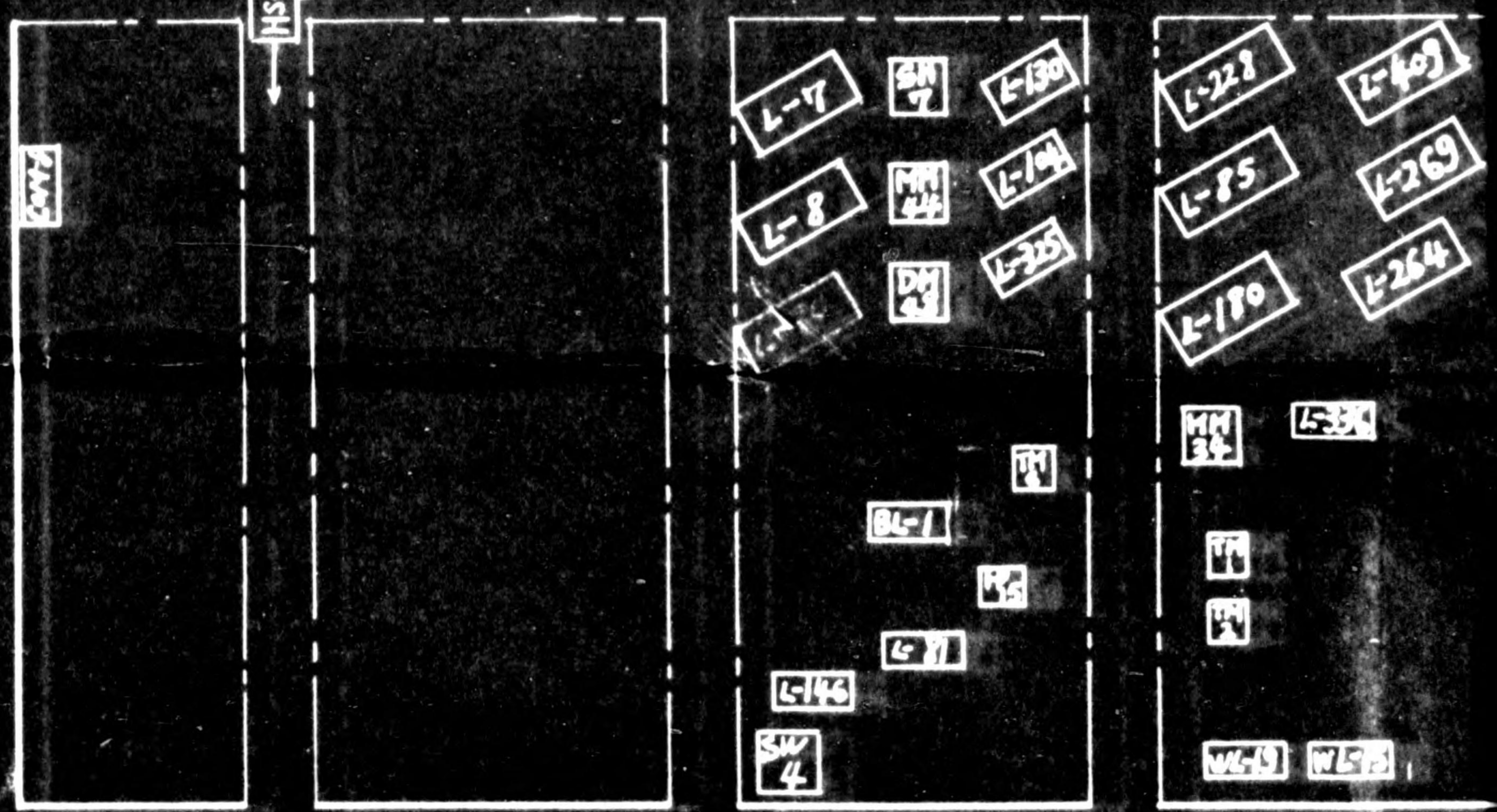
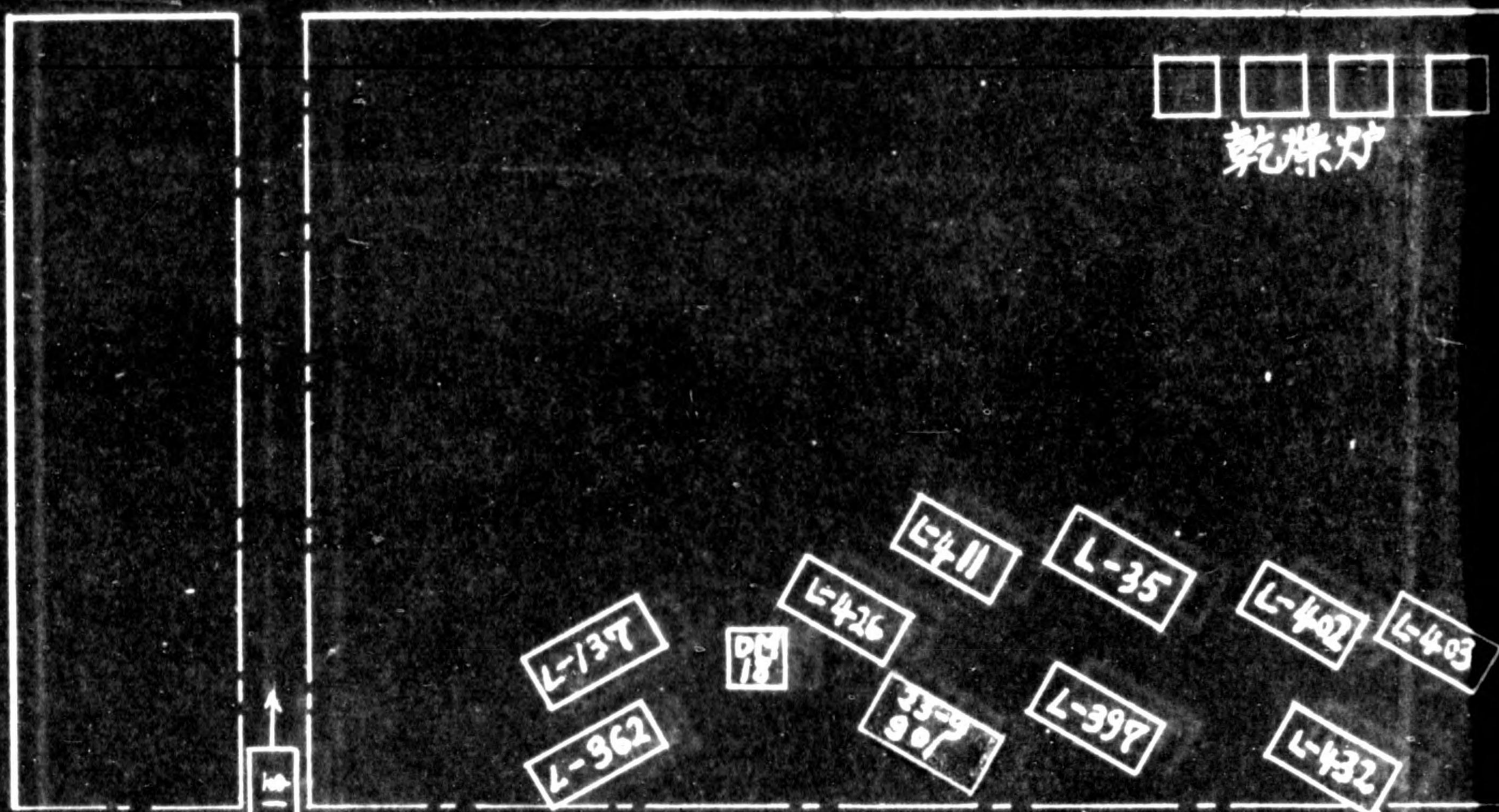


ハ外燈機機

SW 13 SW 8 SW 7 SW 76

# Boiler making shop

乾燥灯





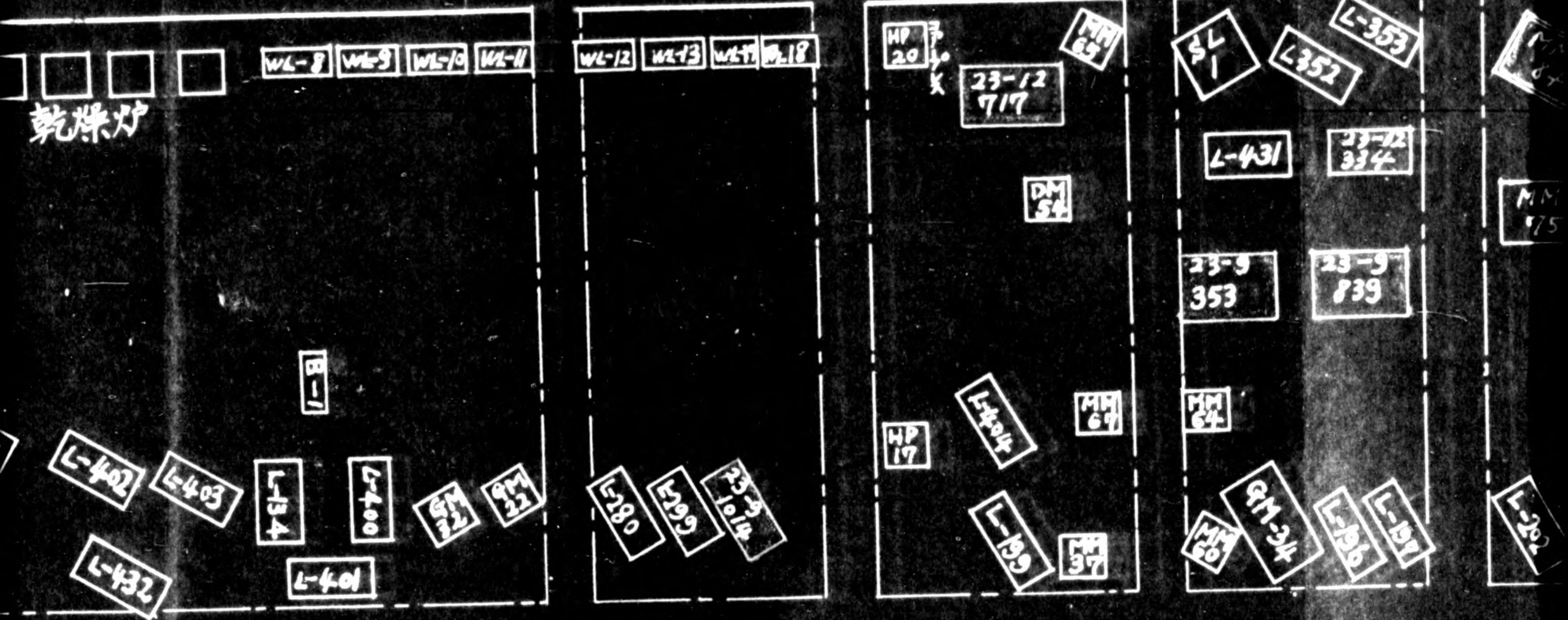
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SAW 7 SAM 12 SAPP 13

SAW 3 SAW 4 SAW 5 SAW 6 SAW 7 SAW 8

Wood making sh

Second section shop



Second section office

第二課  
ハウス

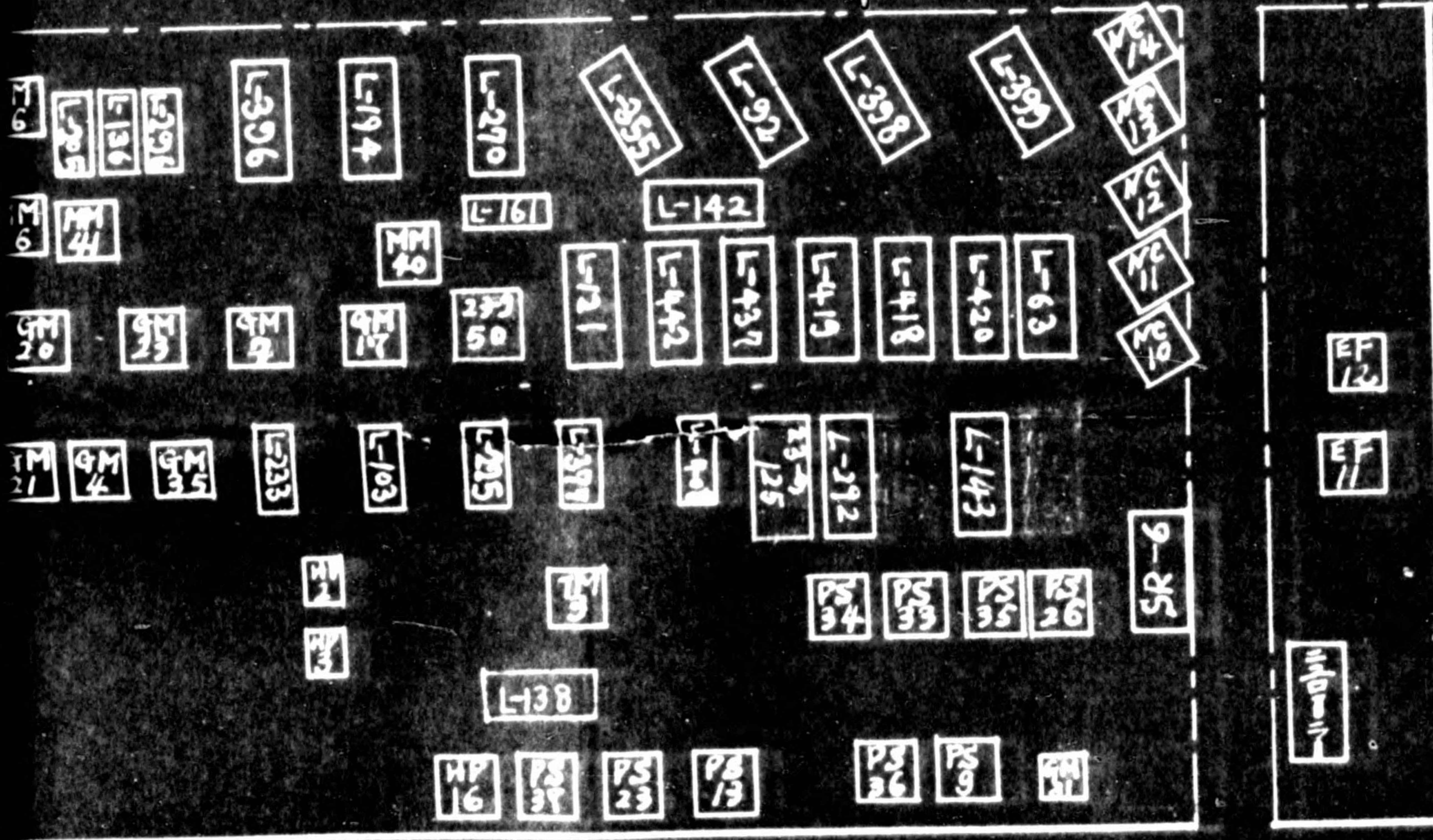
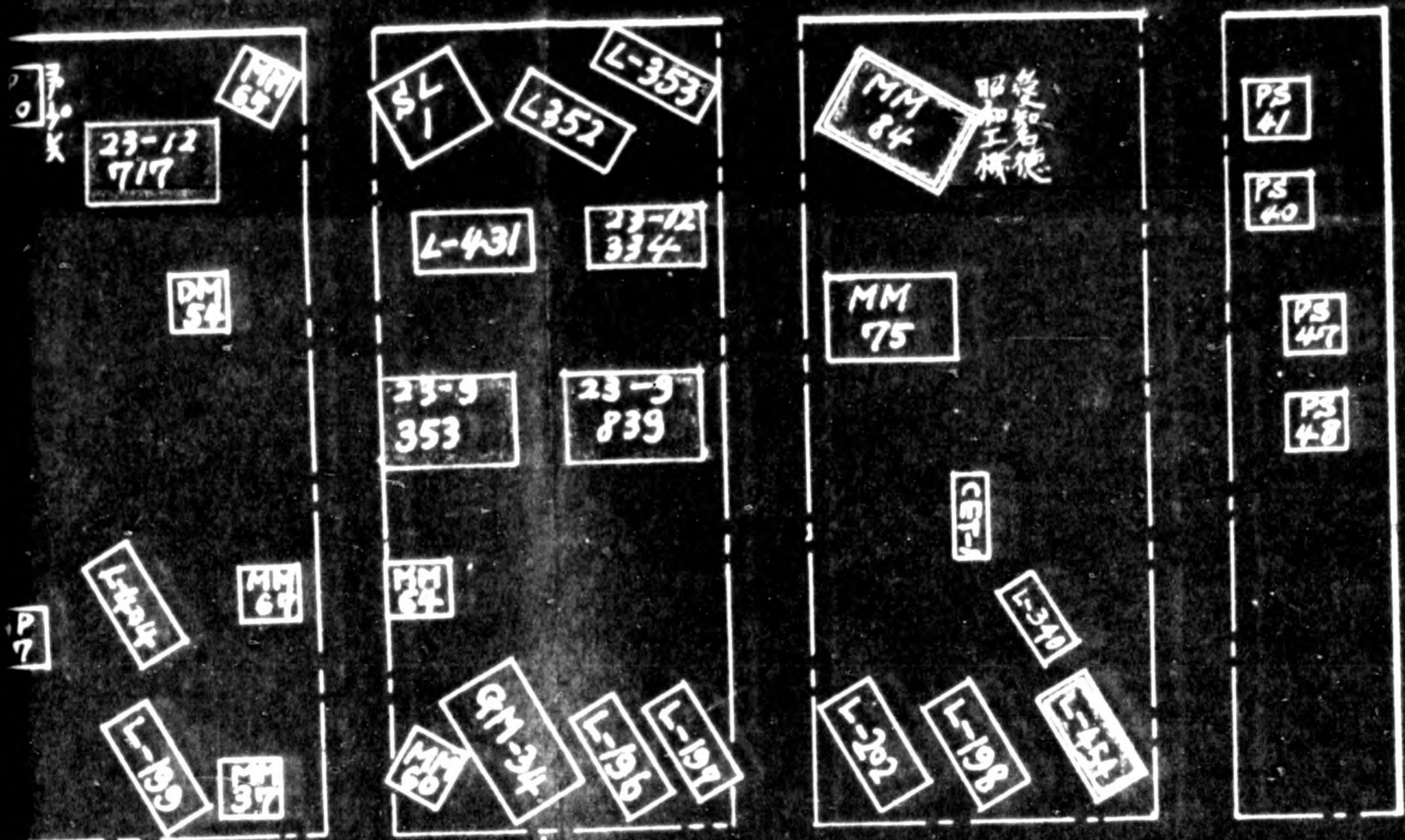
HP 16 PS 37 PS 29 PS 79 PS 36



SAW 7  
SAP 12  
SAP 13

Landing shop

Wood making shop





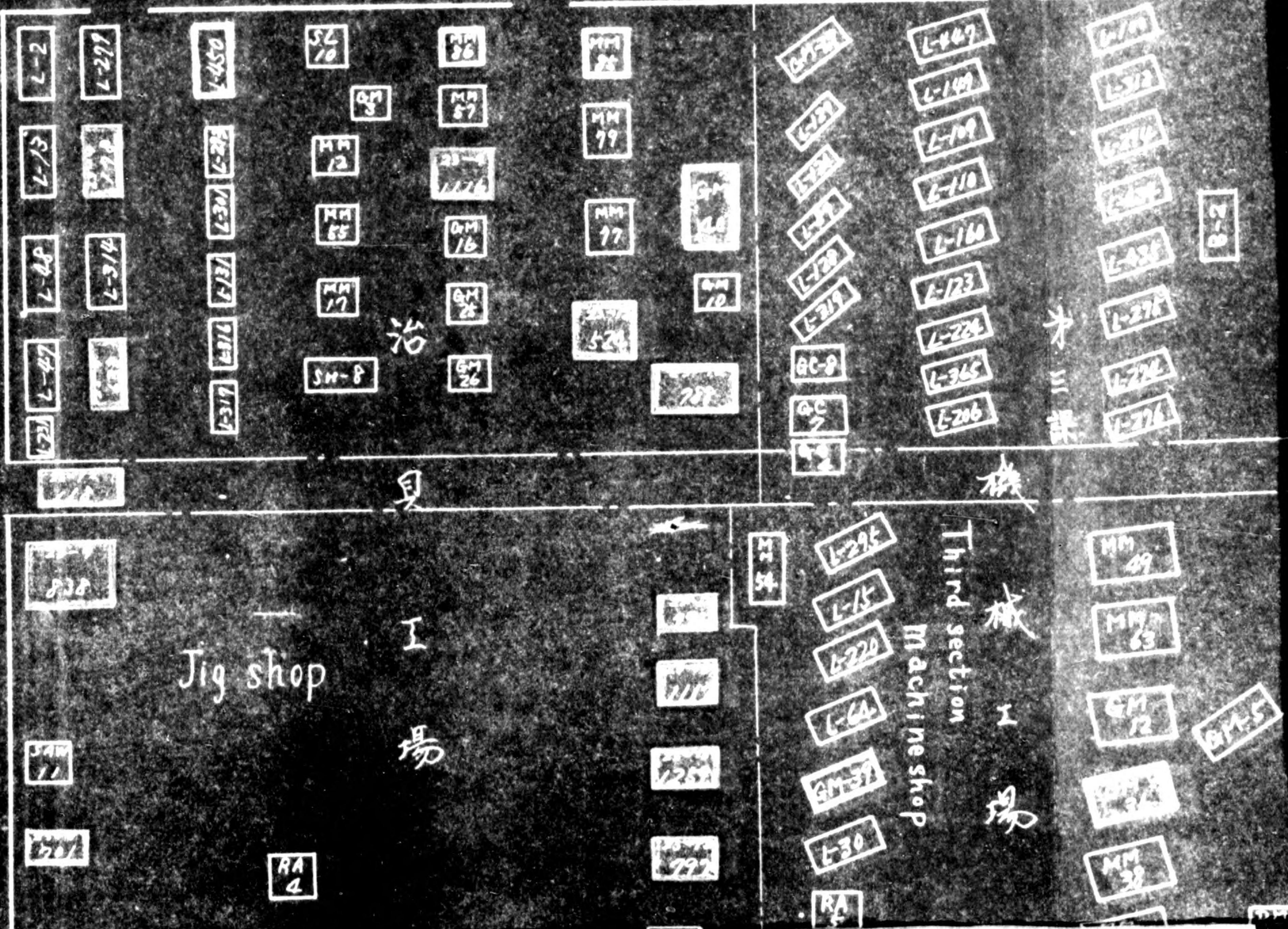
Third section shop  
and Jig shop

機  
械  
配  
置  
部

第  
三  
課  
治  
具  
工  
場

1-2	1-27
1-7	1-28
1-12	1-31
1-17	1-32
1-22	1-33
1-27	1-34
1-32	1-35
1-37	1-36
1-42	1-37
1-47	1-38
1-52	1-39
1-57	1-40
1-62	1-41
1-67	1-42
1-72	1-43
1-77	1-44
1-82	1-45
1-87	1-46
1-92	1-47
1-97	1-48
2-2	2-3
2-7	2-4
2-12	2-5
2-17	2-6
2-22	2-7
2-27	2-8
2-32	2-9
2-37	2-10
2-42	2-11
2-47	2-12
2-52	2-13
2-57	2-14
2-62	2-15
2-67	2-16
2-72	2-17
2-77	2-18
2-82	2-19
2-87	2-20
2-92	2-21
2-97	2-22





Jig shop

治具  
工場

Third section  
Machine shop

機工場

第三課

838

JAM 11

501

RA 4

54

55

56

57

58

59

L-295

L-15

L-220

L-64

GM-39

L-30

RA 4

MM 49

MM 63

GM 12

GM-5

MM 38

GM-5

MM 38

L-8

L-149

L-149

L-149

L-149

L-149

L-149

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L-314

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L-450

L-277

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L-277

L-277

L-277

L-277

L-277

L-277

L-277

SL 10

MM 12

MM 55

MM 17

SM-8

GM 3

MM 86

MM 57

GM 16

GM 26

MM 24

MM 79

MM 77

524

277

GM 10

GM 10

54

GM-39

L-149

L-149

L-149

L-149

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L-224  
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L-361  
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L-414  
L-405  
L-324

L-354  
L-306  
L-357  
L-377  
L-378  
L-191  
L-376  
L-203

製  
造  
工  
場

Clay figure  
shop

HP  
11  
HP  
12  
HP  
9  
HP  
8  
HP  
7

EF  
20

MM  
49  
MM  
63  
GM  
12  
MM  
38

L-329  
L-327  
L-328  
L-326  
L-388  
MM  
10  
MM  
7

35  
6  
629  
627  
6457

MM  
5  
MM  
4  
MM  
3  
MM  
2  
MM  
1

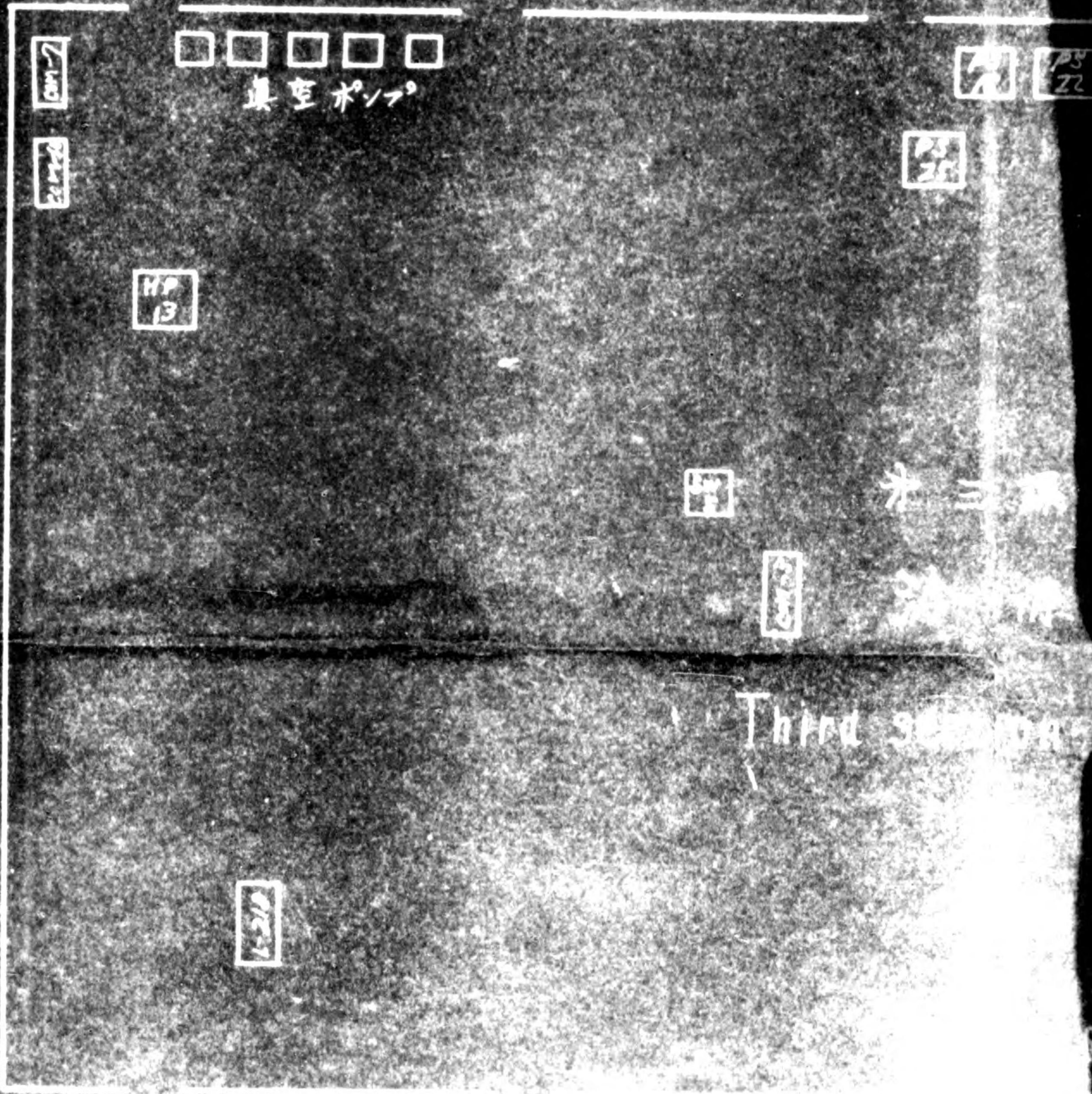
pump cabin

ポン  
プ  
小  
屋



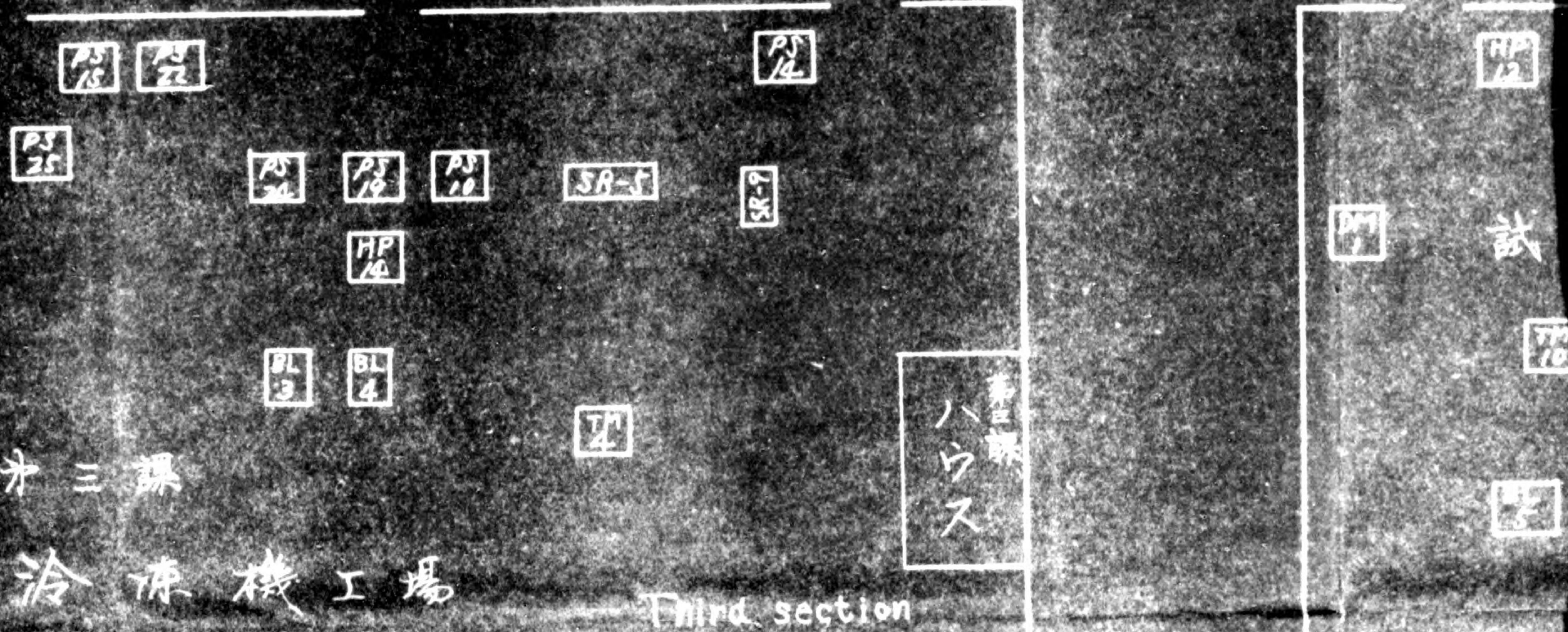
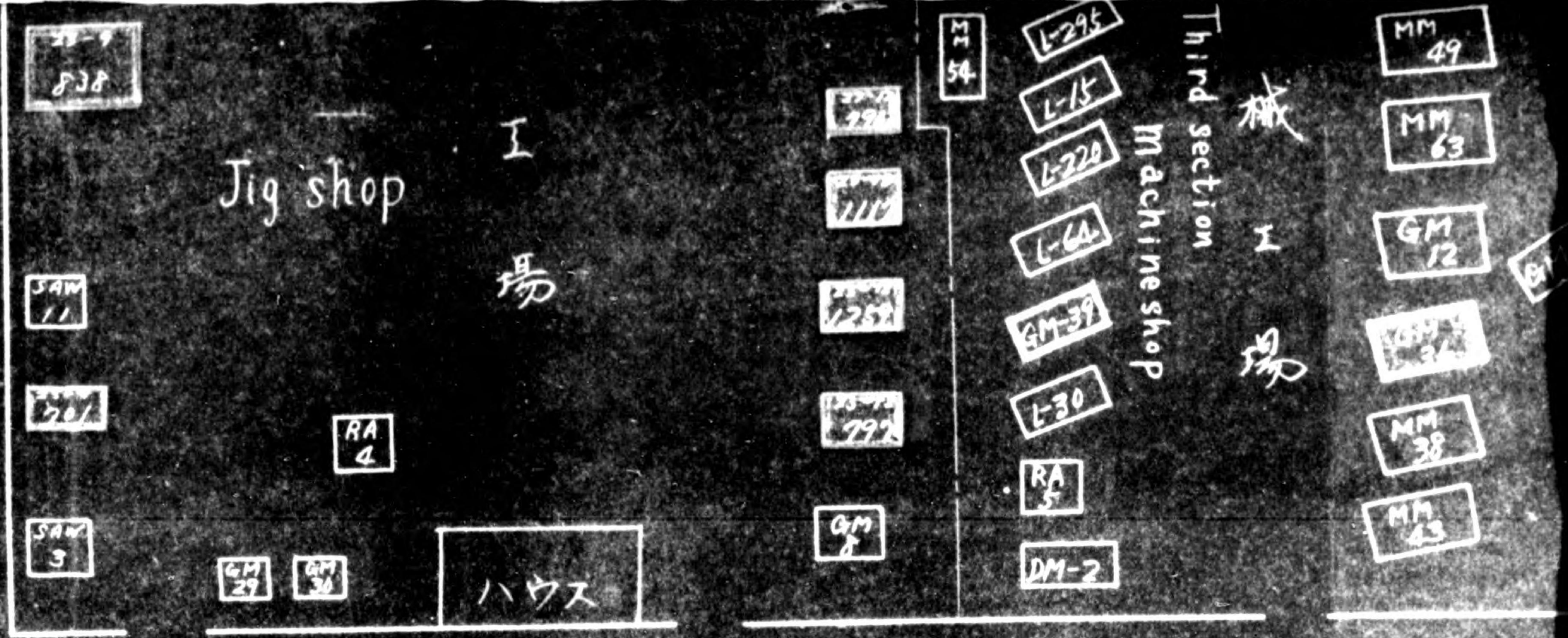
775013

具工場  
配置備



Third...





Third section fitting shop

Third section office

第三課

冷凍機工場

試



775013

MM 49  
 MM 63  
 GM 12  
 GM 34  
 MM 38  
 MM 43

L-329  
 L-327  
 L-328  
 L-326  
 L-388  
 MM 10  
 MM 36  
 DM 49

GM-5  
 L-428  
 L-427  
 L-457  
 L-102

52  
 6

COM-6

EF 20

pump cabin  
ポンプ小屋

MM 12

試作工場

MM 10  
Trial making shop

MM 10

鉄材倉庫

鉄材倉庫

鉄材倉庫

Iron warehouse



Application for Authorized Use and  
or Move of the Reparation Equipment

To : Minister of Finance.

From : Mitsugu Kanaya  
Representative Director, Matsushita Denki K.K.  
(Matsushita Electric Devices Works Co., Ltd.)  
No. 1048, Kadoma-cho, Kita-kochi-gun, Osaka Pref.

Date : 10 December 1949

1. Name of plant. (Code No.)

Suzuka Naval Arsenal (23-10A)  
Tsu Naval Arsenal (23-12)  
Kusu Factory, Nagoya Army Arsenal (23-9)

2. Location of plant.

Shōno-cho, Suzuka city, Mie pref.  
Komori, Tsu city, Mie prer.  
Kusu-cho, Mie-gun, Mie pref.

3. Name of products planned.

Electric Wire devices. Metal Forms, Machinerys, and  
Watt hour meters Cog heel.

4. Experience of the production planned.

On March 1921, this company had been established on personal management by Kōnosuke Matsushita, as name "Matsushita Electric Manufactory", and changed name on Dec. 1935 "Matsushita Electric Industrial Co., Ltd." and also, as that time, had commenced business for production of compound pitch and electric wire devices as subsidiary company named "Matsushita Electric Co., Ltd."

In wartime, production of parts for Air machine and part for war-ship had made. Past-war, on Sept. 1945, we changed name Matsushita Electric Wire devices Works Co., Ltd." and reconverted to production of civil use, such as Electric wire devices and compound Pitches. Our products are the position of the first-rank of this circles on quality and quantity as "Trade mark National."

5. 1939-1949 production

<u>year</u>	<u>output</u>	<u>Rate for output on 1939</u>
1939	¥ 6,266,000	116 %
1940	¥ 7,031,000	116 %
1941	¥ 10,514,000	166 %
1942	¥ 12,368,000	200 %
1943	¥ 14,224,000	233 %
1944	¥ 32,959,000	530 %
1945	¥ 24,931,000	400 %
1946	¥ 56,993,000	930 %
1947	¥ 176,910,000	2930 %



<u>Year</u>	<u>Output</u>	<u>Rate for output on 1939</u>
1948	¥ 366,805,000	6113 %
1949	¥ 519,081,000	8650 %

The above table is out of price indices, and indicate 100 % output on 1939 year.

6. Period of desired permission.

From the authorized date to reparation removal.

7. Goals of the production planned by month for period on this Application.

<u>name</u>	<u>Amount of production</u>	<u>Remarks</u>
Electric wire Devices. Signal apparatus.	358,000 unit ¥ 12,222,000	1st month
Electr"	369,000 unit ¥ 12,850,000	2nd month

8. Above table is estimates of output in Tsu Plant.

A. General descriptions of plan on the management.

1. Our factory have been managing mainly for products such as Electric wire apparatus, compound pitches, signal apparatus and watt hour meters, but existing equipment has large damages owing to the past over production, and it gives the bad conditions on the productive power of which could not be rationalized the enterprises. Accordingly, in case of using Reparation machine, the improvement of our equipment and the increase of production can be made.

2. Specifications of plan.

- a. Hobbing machine. Use for manufacture of cogwheels, watt hours meters.
- b. Machine Tools. Use for manufacture of shapes, metals, working up and manufacture of machinery and parts.
- c. Cled miller. Use for controlling Forms and suplifize
- d. A.C. Motor Various machines.

3. The productive power for availing will be planned by using of Reparation machines and by supplementing of our existing equipment. And Reparation equipment on application will be used for various works, but the increasing figures for production power is hard to indicate, so Hobbing machine and Induction motor only is indicated as the following.

- a. Hobbing machine. Monthly output 3,000 pieces  
increase 2,000 pieces  
about 100 % increase.

b. Induction motor.

1. Past plating work daily 1,500 pic. Sockets & Guid metals
2. Availing Reparation Machine daily 15,000 pic. Increase 100 %



## c. Machine Tools

1. existing manual press.
  - operating number 66%
2. Availing planned machine.
  - operating number 86.6 %
  - increase 200 %

d. Motor. production 20 % increase.

## 8. Name and Location to which products are to be Delivered.

<u>district</u>	<u>General concerns</u>	<u>Agent</u>
Osaka	261	80
Tokyo	91	46
Nagoya	26	16
Kyushu	75	25
<u>Total</u>	<u>453</u>	<u>167</u>

Quantity for sales up to 31 May 1949.

Dec. 1948	¥ 47,357.00
Jan. 1949	¥ 43,801.00
Feb. "	¥ 49,181.00
March "	¥ 47,748.00
April "	¥ 55,658.00
May "	¥ 55,092.00
Total	¥ 298,837.00

## Export.

a. Former result. We have the largest delivers in this circles, that is Manchuria, Korea, India, Builma, D.E.I. South America, but no these agents have its active at present.

Export for India, Builma, Indo-china, and Ciam will be reopened day by day and we have received orders of large quantity such as Electric Wire Wire devices, wire tubes, Knife switch. Amount about ¥ 82,724,000.00

Products	Qt.	Amount	Deliver
Sockets	826,600	¥ 31,112,000	India, Builma, Ciam.
Connectors	391,800	¥ 10,584,000	"
Switch	508,400	¥ 21,032,000	"
Wire tube	48,440	¥ 2,796,000	India, Ciam
Others	200	¥ 1,720,000	India, Bombay
Total		¥ 82,724,000	Culcut.

## b. Output for export.

Dec. 1948	¥ 11,008,000	March 1949	¥ 9,252,000
Jan. 1949	¥ 9,676,000	April "	¥ 8,731,000
Feb. "	¥ 8,981,000	May "	¥ 6,260,000



- c. Order received at present.  
(At the period on Dec. 1949.)

<u>Production</u>	<u>Quantity</u>	<u>Amount</u>	<u>Destination</u>
Electric wir devices			
Sockets	98,300	¥ 1,856,000	Philippin South-America
Plums	1,800	¥ 37,900	"
Switch	8,000	¥ 129,000	"
Caps	4,700	¥ 64,500	"
Others	9,800	¥ 165,000	"
<u>Total</u>		<u>¥ 3,174,000</u>	

9. Scale of proposed change in physical facilities.

- a. Reason served to the reconstruction of Japanese economy.

Reconstruction of economy depend on production only. Due to the said principle, after war end prompt conversion had made. Afterward, we have been devoted ourselves to increase the productive power with the super quality and quantity of product for the reconstruction of Japanese economy. This time, we are renewly planning to complete the more increase than the said results.

In case of using Reparation machines listed, the said plan will reach to our actual object and also the reopen of tree export is pressing us to impose the burden for the increase of productive power, in any way, it will serve to the reconstruction of Japanese economy.

b. Reason for substitute equipment of which is hard to obtain and Availing equipment on applications Reparation machines listed are in the present condition of shortage by war damage and conversion of its manufactures. These equipment listed will be removed and used in our existing equipment, Tsu plant.

c. Equipment be required are shown on the attached list.

10. Ontended expense for Authorized Use.

- A. Materials, be required.  
(Cast iron, steel & others.) ¥ 152,000
- B. Labor  
(Transfer, repair, improvement.) ¥ 236,990.

11. Plan and Location to continue the production after Reparation removal.

In the event of Reparation removal. Existing un-sufficient equipment will be repaired and improved and we will continue production. However, as Hobbing machine and Sled Miller are hard to hand, it may be change our plan.

*Mitsugu Kanaya*  
MITSUOGU KANAYA  
Representative Director,  
Matsushita Denki k.k.



List of Facilities for Application

Code No. 23-10A

Name of Plant. Suzuka Naval Arsenal.

Address of Plant. Shono-cho, Suzuka city, Mie Pref.

1. Machinery

Inv. No.	Name of Machine	Brief Specifications	Qt.	Remarks
23-10A-3095	Motor	0.5 HP	1	
" 3000	Motor	"	1	
" 2981	Motor	"	1	
" 2976	Motor	"	1	
" 3002	Motor	"	1	
" 2967	Motor	"	1	
" 2975	Motor	"	1	
" 2968	Motor	"	1	
" 2986	Motor	"	1	
" 2998	Motor	"	1	
" 3059	Motor	0.75 HP	1	
" 3113	Motor	"	1	
" 3005	Motor	1 HP	1	
" 489	Motor	"	1	
" 3073	Motor	"	1	
" 457	Motor	"	1	
" 497	Motor	"	1	
" 3036	Motor	"	1	
" 2989	Motor	1.5 HP	1	
" 2982	Motor	"	1	
Total			20	



## List of Facilities for Application

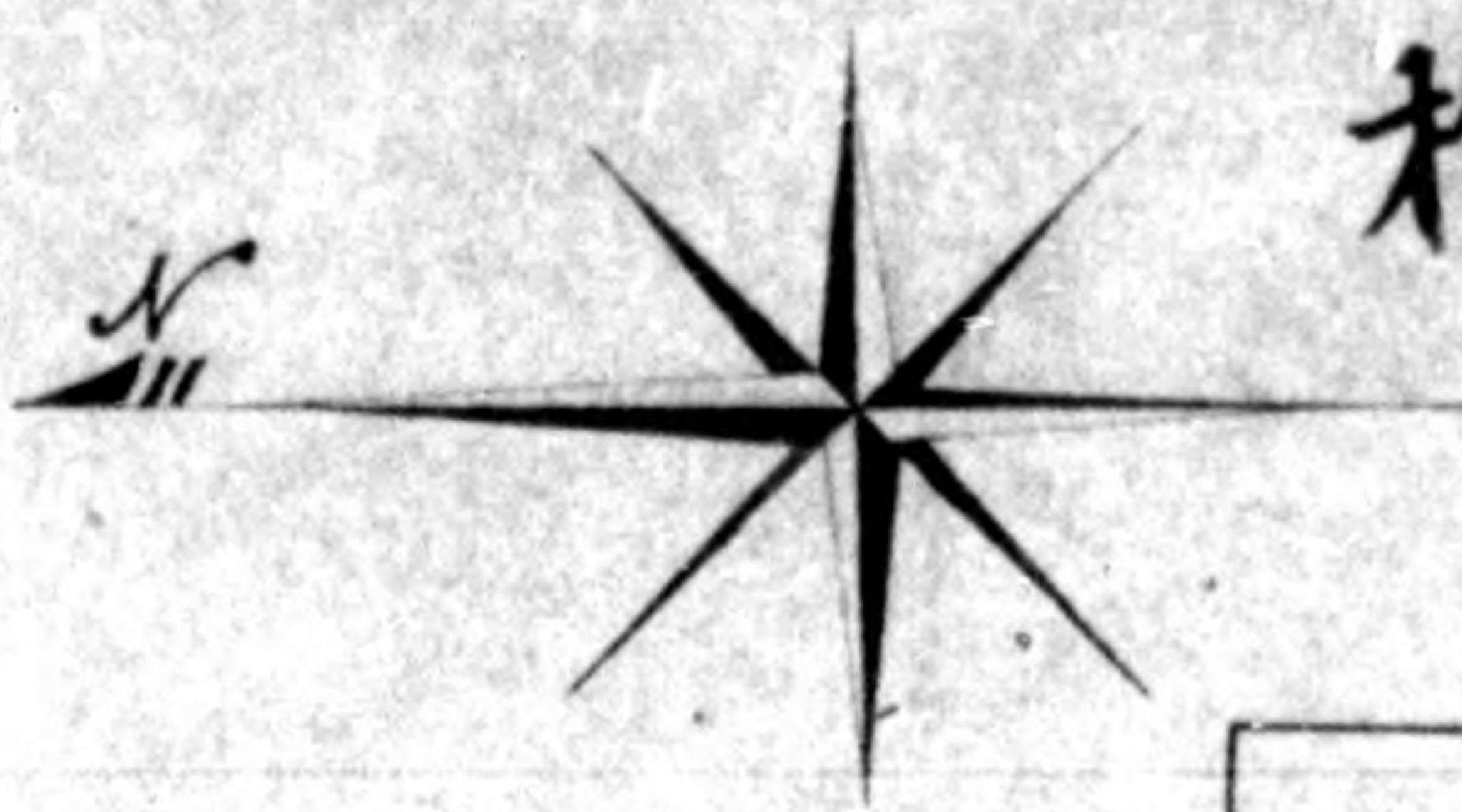
Code No. 23-9, 23-12.  
 Name of Plant. Kusu Factory, Nagoya Army Arsenal.  
 Tau Naval Arsenal.  
 Address of Plant. Kusu-cho, Mie-gun, Mie pref.  
 Komori, Tau city, Mie pref.

## 1. Machinery

Inv. No.	Name of Machinery	Brief Specifications	Qt.	Remarks
23-9- 926	Convertor	5 KW	1	
" 927	Convertor	6 KW	1	
23-12- 471	Milling-Vertical	table size 1000 x 120 mm	1	
" 393	Milling-Vertical	table size 580 x 180 mm	1	
" 636	Sloter	stroke 200 mm	1	
" 1131	Drilling-Bench	swing 400 mm	1	
" 1268	Drilling-Bench	swing 300 mm	1	
" 814	Grinder-Stand & Snagging	1 HP	1	
" 816	Grinder-Stand & Snagging	1 HP	1	
" 790	Grinder-Surface	table dia 300 mm	1	
" 2783	Universal Index		1	
" 2781	Circular table		1	
" 1255	Milling-Vertical	780 x 150 mm	1	
" 609	Shaper	stroke 600 mm	1	
" 733	Gear Hobbing	130 x 100 mm	1	
" 730	Gear Hobbing	130 x 100 mm	1	
" 734	Gear Hobbing	130 x 100 mm	1	
" 735	Gear Hobbing	130 x 100 mm	1	
" 744	Gear Hobbing	130 x 100 mm	1	
" 566	Milling-Thread	150 x 60 mm	1	
			Total	20



# The arrangement of Buildings of Matsushita Denko 松下電工株式会社津工場建物配置圖



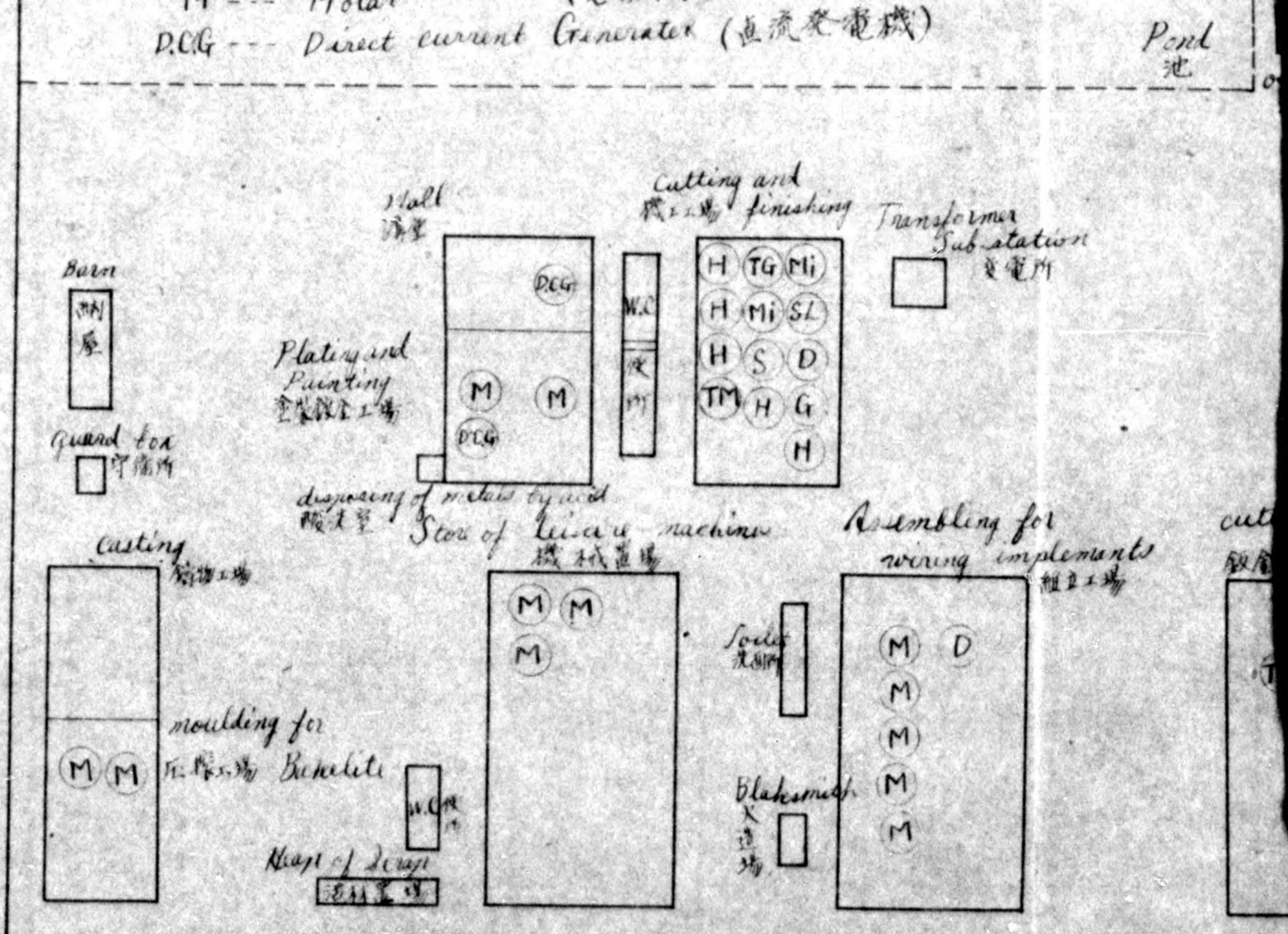
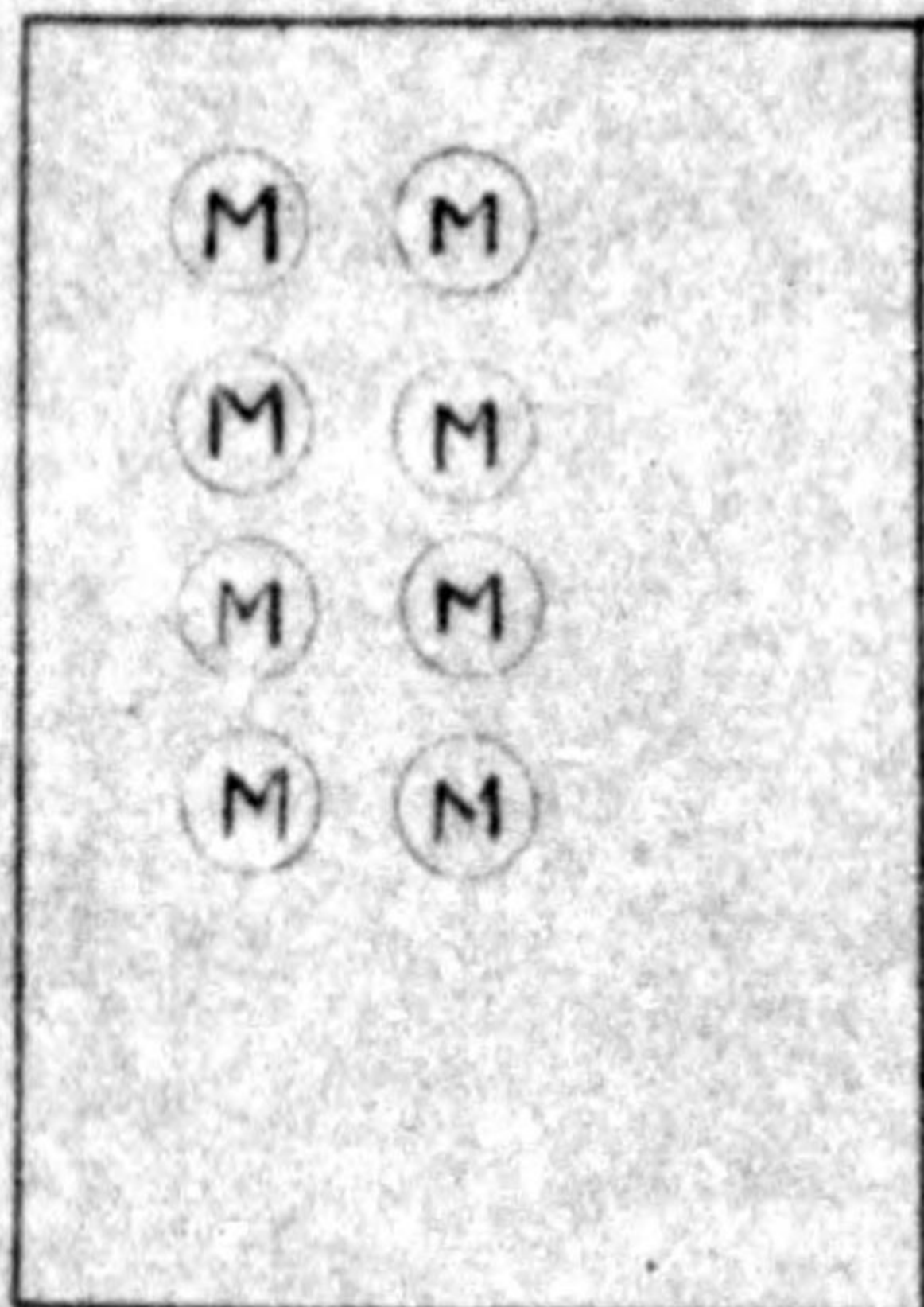
**Notes;**  
備考

1. The mark "O" shows the locality of the borrowed machines.  
○印は借用機械の場所を示す

2. Explanation of signs  
符号説明

- TG --- Tool grinder (工具研磨機)
- Mi --- Milling machine (フライス盤)
- SL --- Slutting machine (スリッター)
- D --- Drilling machine (ドリル盤)
- G --- Grinder (研磨盤)
- H --- Hobbing machine (歯切盤)
- S --- Shaper (形削盤)
- TM --- Thread miller (スレッドミラー)
- M --- Motor (電動機)
- D.C.G --- Direct current Generator (直流発電機)

The Iwatazawa Branch  
岩田川分工場



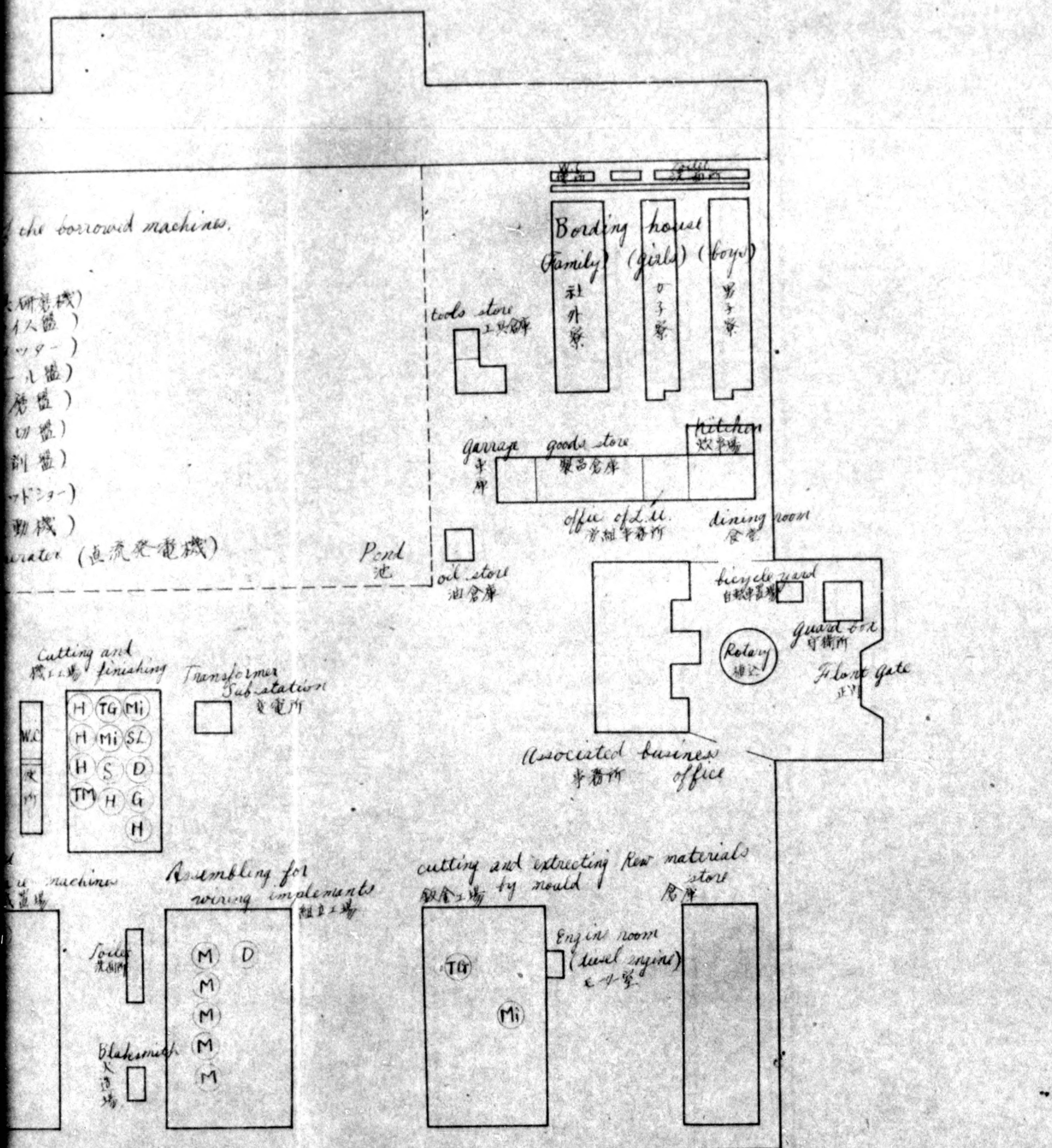


# Works of Matsushita Denko K.K. Tsu Plant

## 津工場建物配置圖

Scale 1/1000

Date, December 10, 1949  
日附 昭和24年12月10日



the borrowed machines.

大研機) (Large research machine)  
 1人盤) (1 person board)  
 ツター) (Tutor)  
 一儿盤) (One child board)  
 磨盤) (Grinding board)  
 切盤) (Cutting board)  
 削盤) (Shaping board)  
 下シ) (Downing)  
 動機) (Moving machine)  
 erator (直流発電機) (Direct current generator)

Cutting and finishing 機工場

H	TG	Mi
H	Mi	SL
H	S	D
TM	H	G
	H	

Transformer Sub-station 変電所

Assembling for wiring implements 組立工場

M	D
M	
M	
M	
M	

Soles 靴底工場

Blakesmith 大造場

cutting and extracting raw materials by mould 模金工場

TG
Mi

Engine room (diesel engine) 汽機室



Application for Authorized Use and  
or Move of the Reparation Equipment

To : Minister of Finance

From : Takeichiro Matsuoka  
President Director, (Matsuoka Industrial Co. Ltd.)  
Matsuoka Sangyo k.k.  
No. 1145, Yasunaga, Jonan-mura, Kuwana-gun, Mie pref.

Date : 10 December 1949

1. Name of Plant. (Code No)

Kusu Factory, Nagoya Army Arsenal (23-9)

2. Location of plant.

Kusu-cho, Mie-gun, Mie pref.

3. Name of products planned.

Internal Combustion Engines and Locomotive,  
Hand Tracks Winches.

4. Experience of the production planned.

Our company has been commenced to manufacture, such as Winches, Hand Tracks on 1931 year and to manufacture Internal Combustion Engine and Locomotive on 1932. Submission of Internal Combustion Locomotive has being good compliment from customers as having special capacity.

5. 1939-1949 production.

year	Internal Combustion Locomotives	Hand Tracks	Winches
1939	16	240	36
1940	24	360	40
1941	22	480	24
1942	20	480	60
1943	20	360	30
1944	22	300	20
1945	20	120	12
1946	40	370	38
1947	45	890	46
1948	46	1750	48
1949	50	2500	50

6. Period of desired permission.

From the date authorized to Reparation Removal.



7. Scales of the production planned by month for period on this Application.

	<u>Past ourput</u>	<u>Estimate</u>	<u>Increasing capacity</u>
Internal Combusion Locomotives	4	5	25 %
Hand Tracks	200	300	50 %
Winches	5	7	40 %

8. Name and Location to which products are to be Delivered.

All Regional Forestry Office, all Construction Office, Japanese Government, all Mining Companies in Kyushu.  
 We have recieved the inquirey from Egypt, India.

9. Scales of proposed change in physical facilities.

Our existing equipment are partly old designed machines. By using of these planned machines, the products cost can be decrease.

10. Intended expense for Authorized Use.

Materials, be required.....¥ 709,150  
 Labor .....¥ 457,500

11. Plan and Location to continue the production after Reparation, removal.

In the event of Removal of those machine, it is hard to hand them in market, and we are scurcely continue our production.

*Takeichiro Matsuoka*  
 TAKEICHIRO MATSUOKA  
 President Director,  
 Matsuoka Sangyo k.k.  
 (Matsuoka Industrial Co. Ltd.)



## List of Facilities for Application

Code No. 23-9  
 Name of Plant. Kusu Factory, Nagoya Army Arsenal.  
 Address of Plant. Kusu-cho, Mie-gun, Mie Pref.

## 1. Machinery

Inv. No.	Name of Machine	Brief Specifications	Qt.	Remarks
23-9- 895	Lathe	Gap, swing 740 mm bed length 4500 mm	1	
" 402	Boring Machine	Horizontal, Bar dia 65 mm	1	
" 1019	Drilling Machine	Swing 480 mm	1	
" 1020	Drilling Machine	"	1	
" 821	Drilling Machine	Swing 850 mm	1	
" 720	Boring Machine	Jig Boring, table size 494 x 715 mm	1	
" 351	Boring Machine	Precision, table size 1650 x 510 mm	1	
" 383	Milling Machine	Vertical, 705 x 255 x 50 mm	1	
" 817	Milling Machine	Vertical, 1200 x 360 x 400 mm	1	
			Total 9	



板田産業株式会社工場配置図

Scale 1/500

車庫

講堂  
一務室

(B) 機械工場

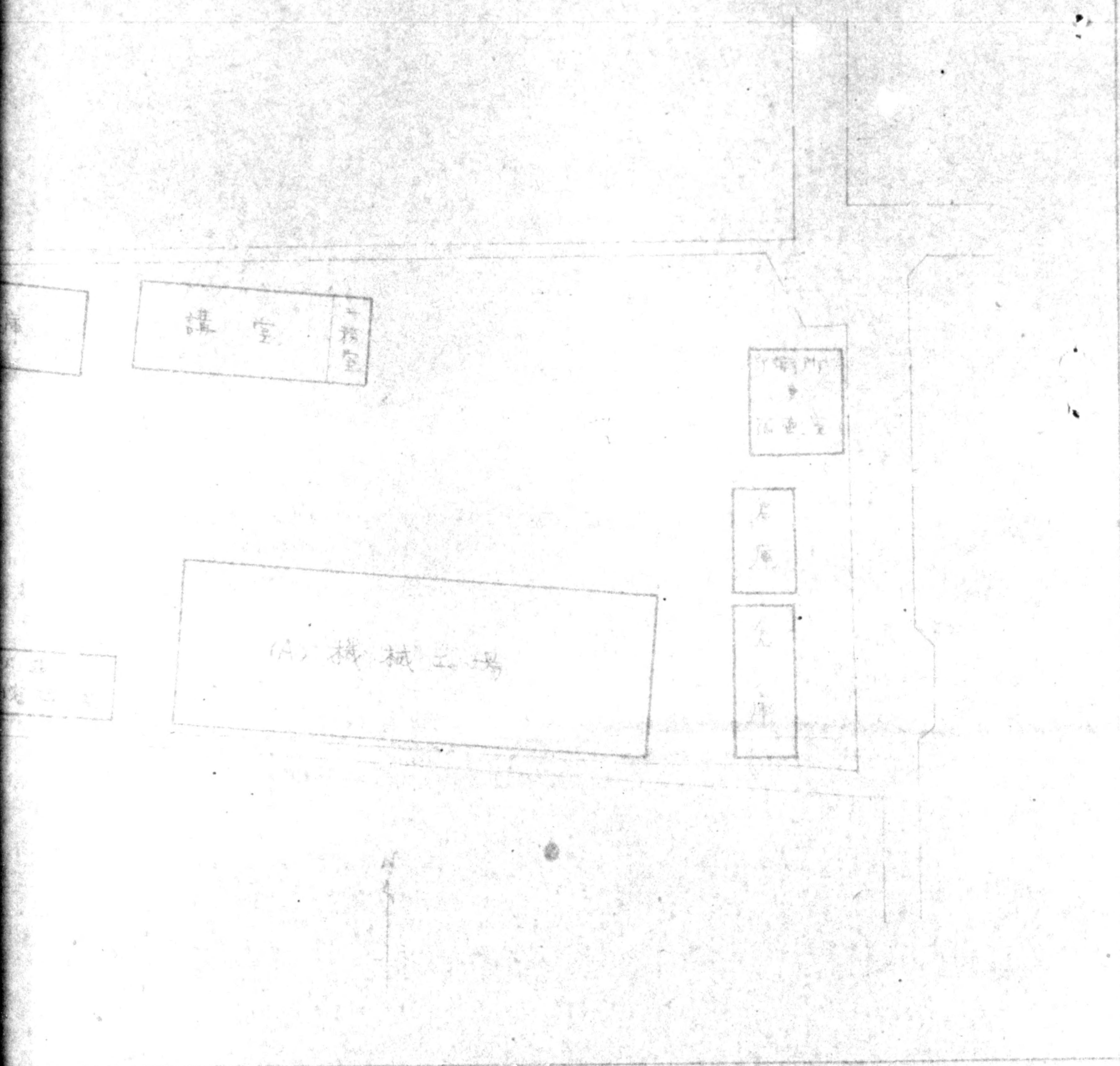
及  
設備

(A) 機械



株式会社工場配置図

Scale 1/500





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