



EXPERIENCE DRAWING

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CONTENT

1

Electrical engineering

2

Mechanical engineering

ELECTRICAL ENGINEERING

TSUYAMA PROJECT

PROJECT SCALE

Waste treatment system with 5 floors (7000 m²)
5階 (7000m²) ごみ処理施設建設工事

SCOPE OF DESIGN

Cable rack and cable duct
ケーブルラック・ケーブルダクト

Instrument and electrical equipment
計装設備・電気設備

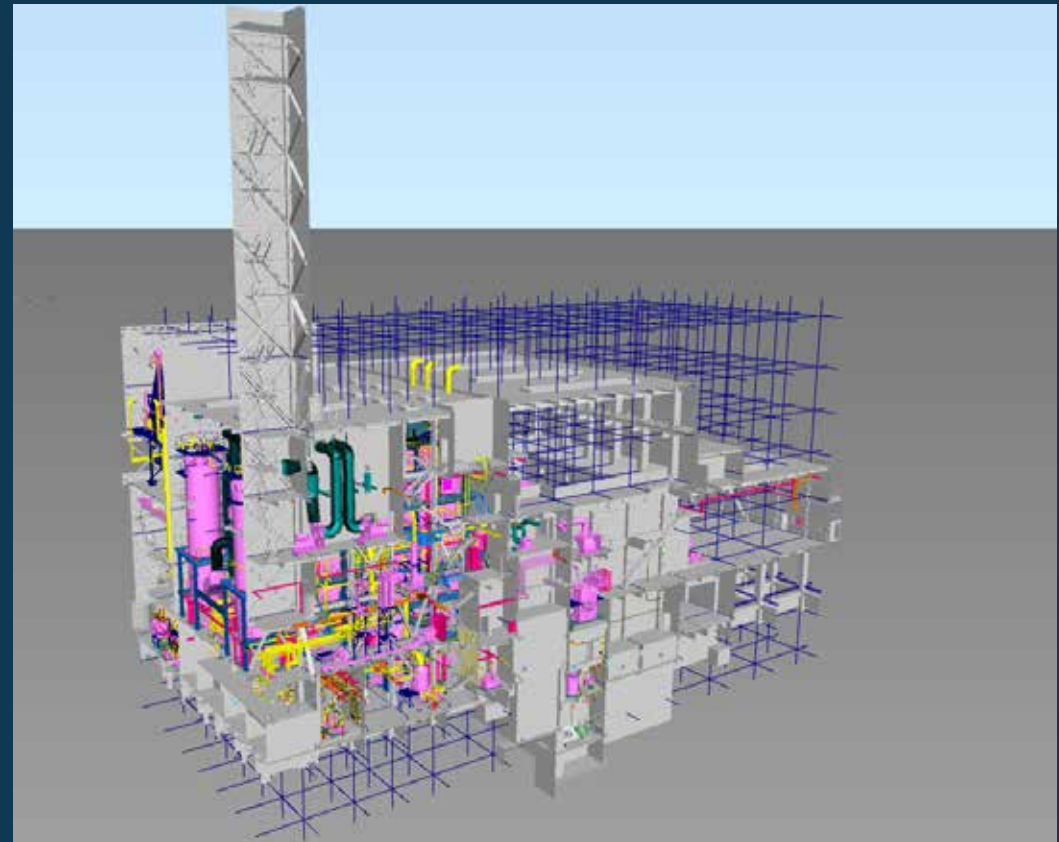
Instrument air
計装空気

ITV

Instrument & Piping layout
配管配線配置図

Grounding layout
接地配置図

Electrical room
電気室



3D VIEW



Drawing made

Cable schedule

ケーブルスケジュール

Wiring flow sheet diagram

配線系統図

Grounding wiring diagram

接地線系統図

Main electric circuit installation drawings

主電路布設図

Piping wiring installation drawings

配管配線布設図

Grounding wiring installation drawings

接地線布設図

Electrical equipment layout

電気機器配置図

Cable duct & rack isometric drawing

ケーブルダクト・ラックアイソメ図

Instrument air piping diagram installation drawings

計装空気配管系統図・布設図

Analyzer gauge piping procedure and installation drawings

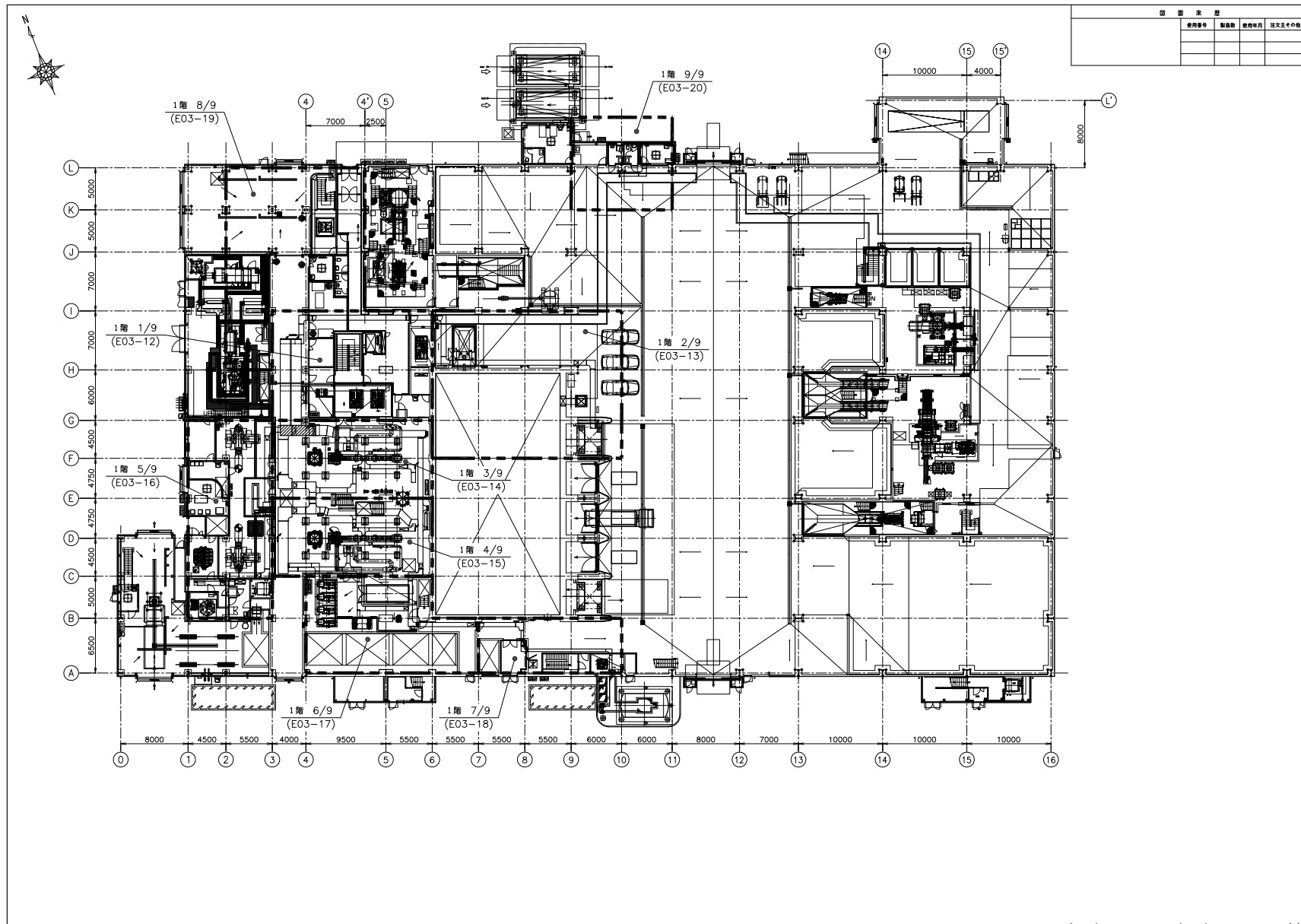
分析計配管要領及び布設図

ITV base manufacture drawings and installation drawings

ITV架台製作図及び据付図

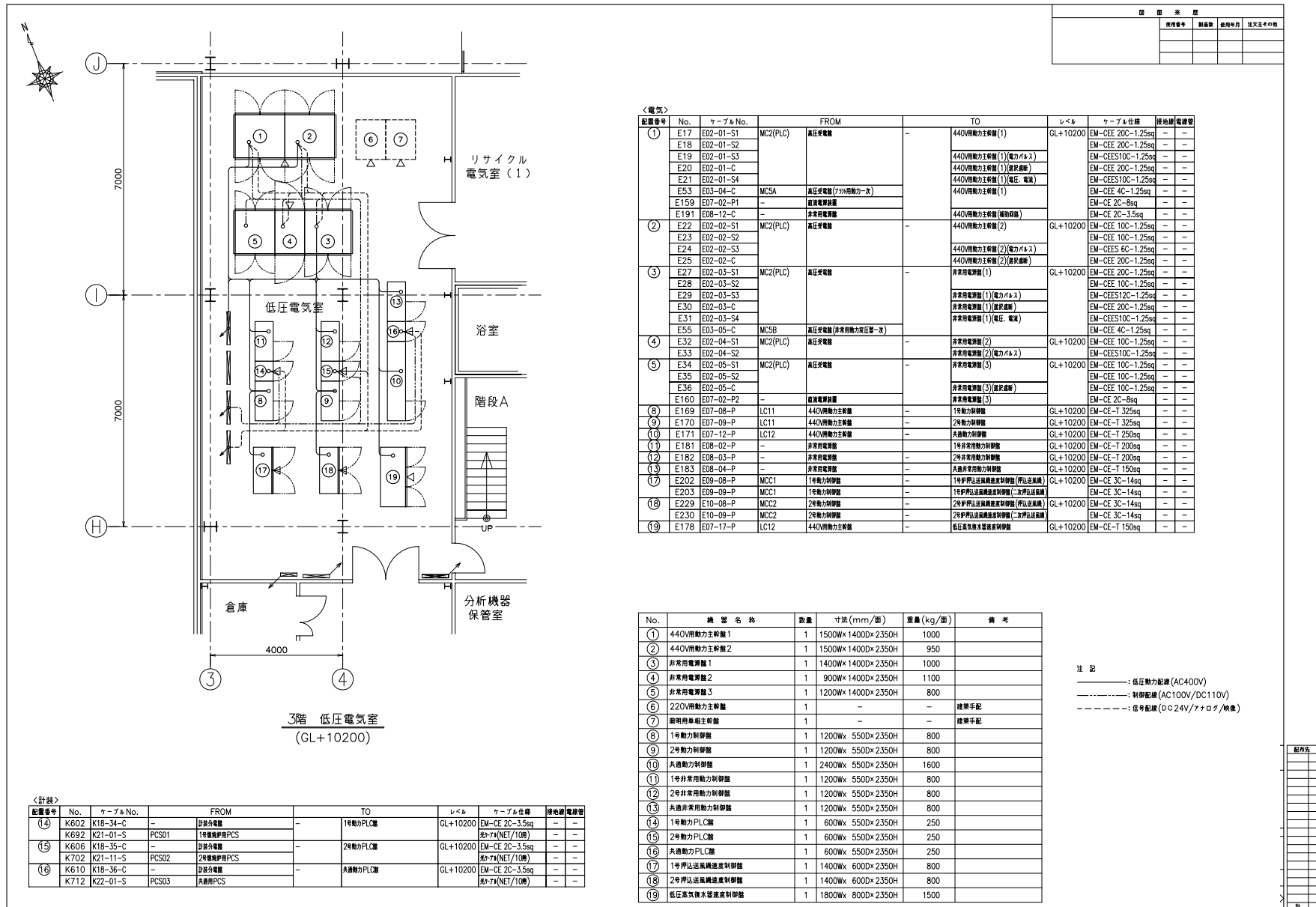
Main electric circuit installation drawings / cable rack drawings

主電路布設図



Piping wiring installation drawings

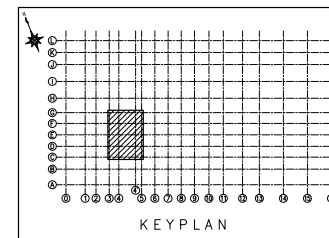
配管配線布設図

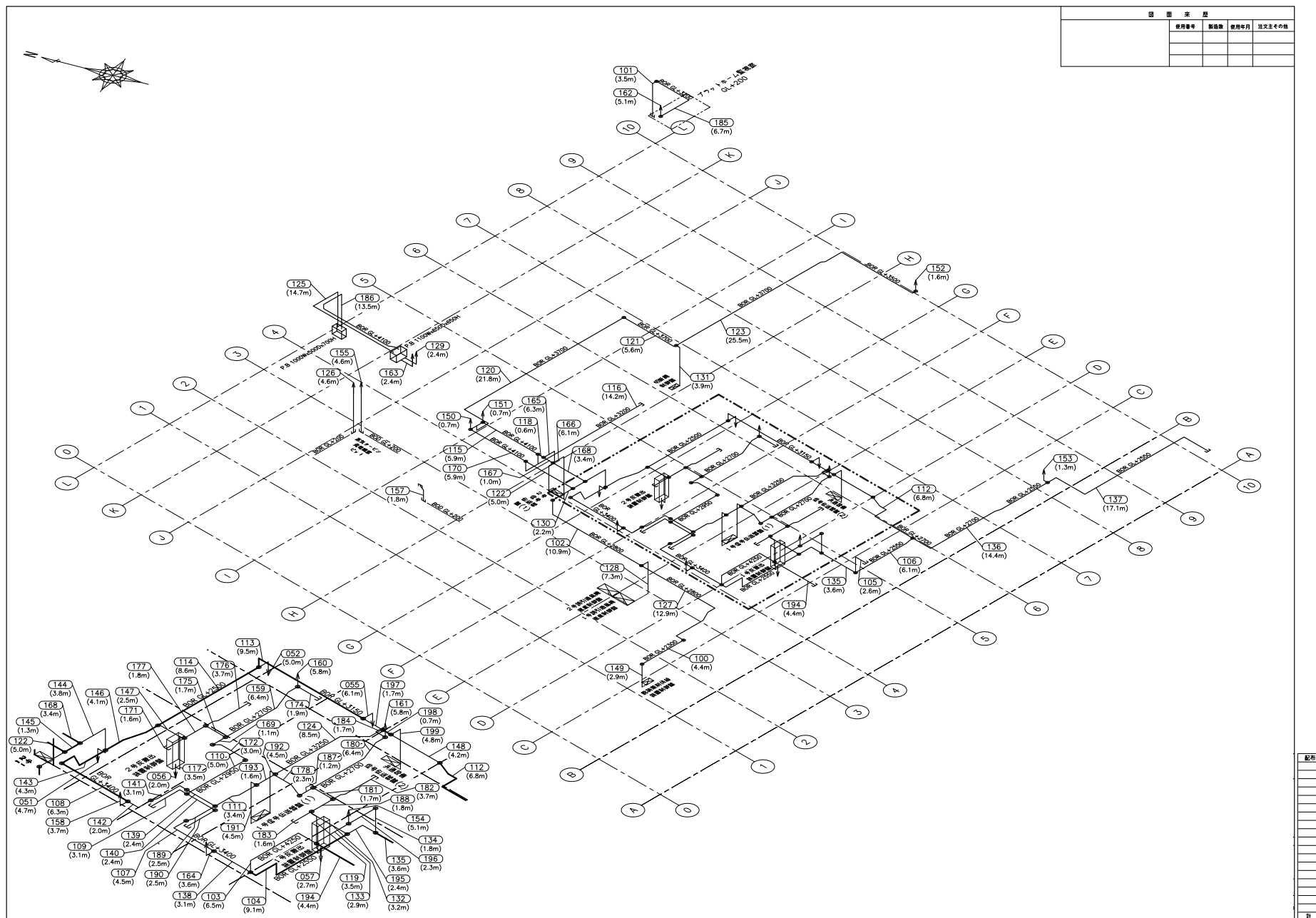




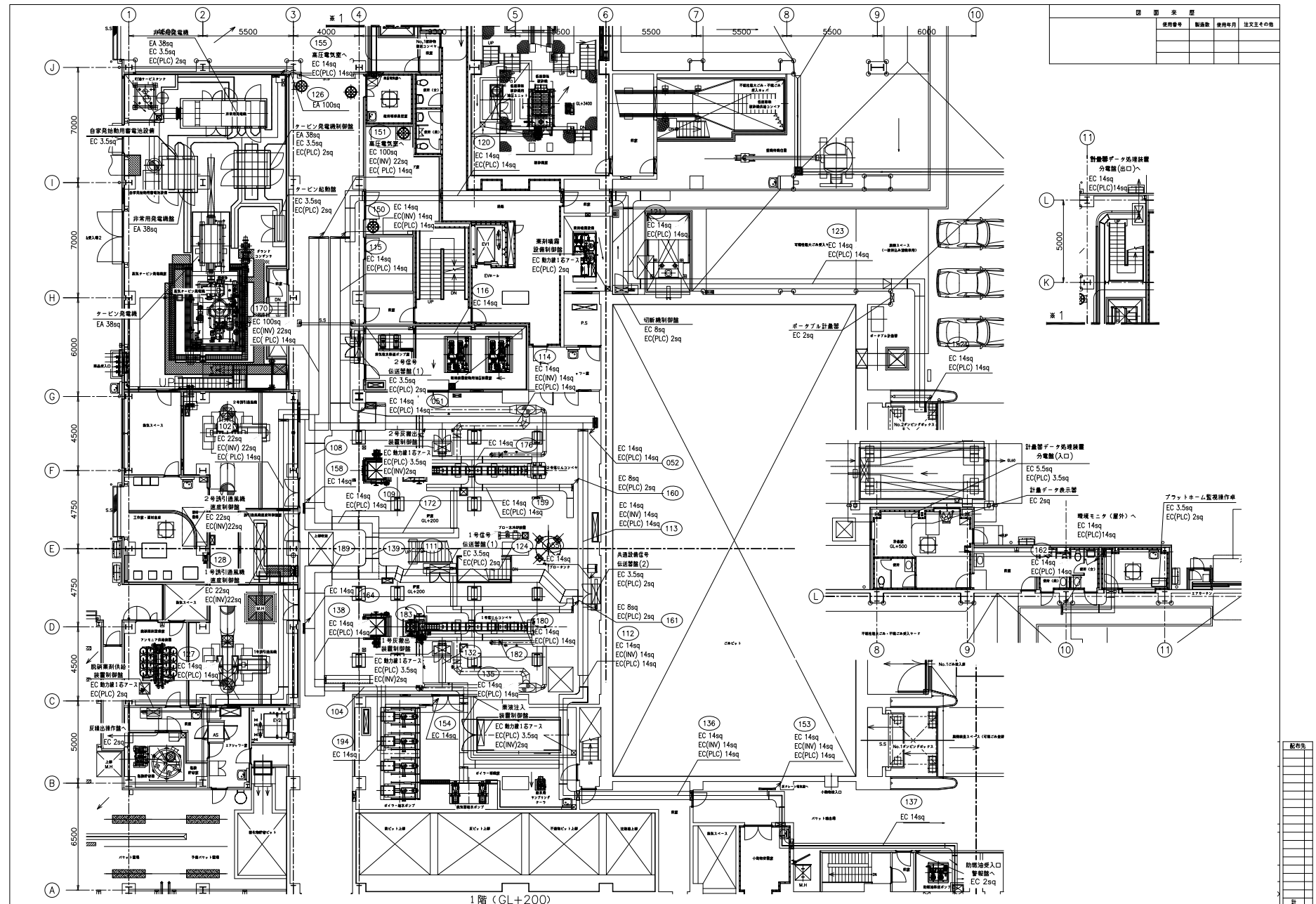
注記:

1. 図中  印は、「炉室 4 階」
(整番: E/K02-49)を参照して下さい。
2. 図中  印は、「炉室 5 階」
(整番: E/K02-51)を参照して下さい。

[illegible]



Cable duct & rack isometric drawing (ケーブルダクト・ラックアイソメ図)

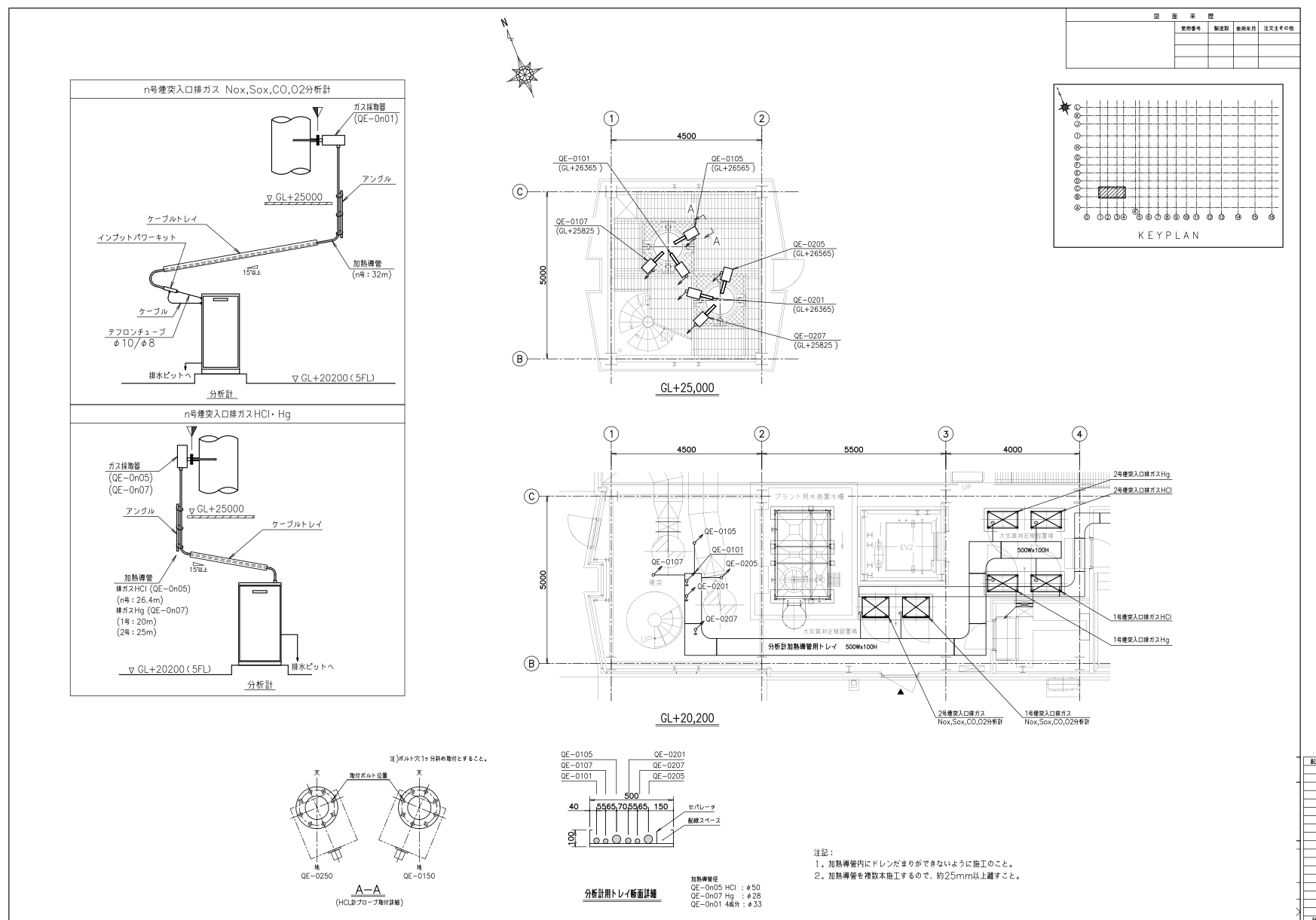


ITV架台製作図及び据付図

[illegible]

Analyzer gauge piping procedure, installation drawing

分析計配管要領及び布設図





BPCA-3 PROJECT

PROJECT SCALE

Compressor skid and Module

SCOPE OF DESIGN

Compressor skid

F3231-8717 Instrument & JB Location

F3231-8742 Wiring Diagram

F3231-8752 Hook Up

F3231-8773 Junction Box Schedule For Compressor

Module

8757 Instrument Layout

8767 CCTV & Paging layout

9703 Interface drawing for cabling

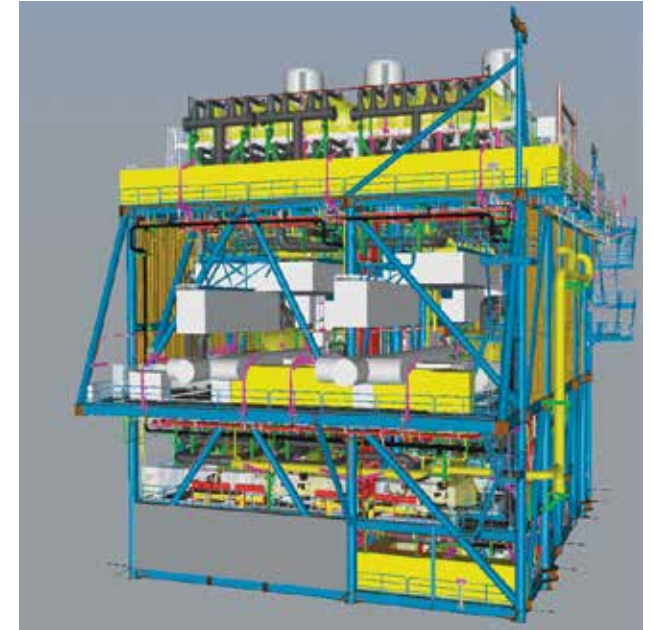
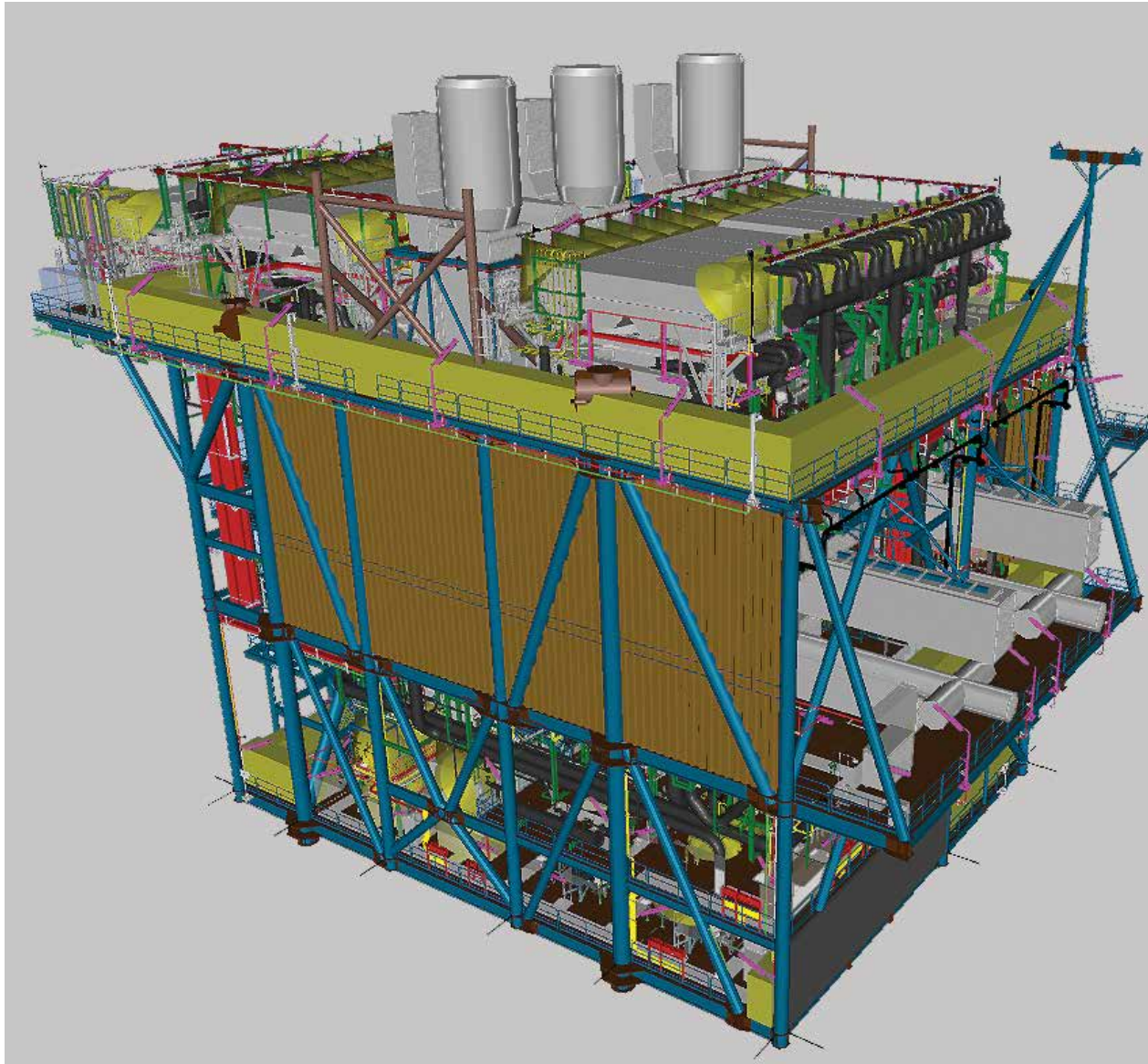
9717 Lighting layout

9727 Main cable tray layout

9743 Interconnection Diagram

9773 JB schedule

9782 Cable tray supports

**3D**

Instrument Layout

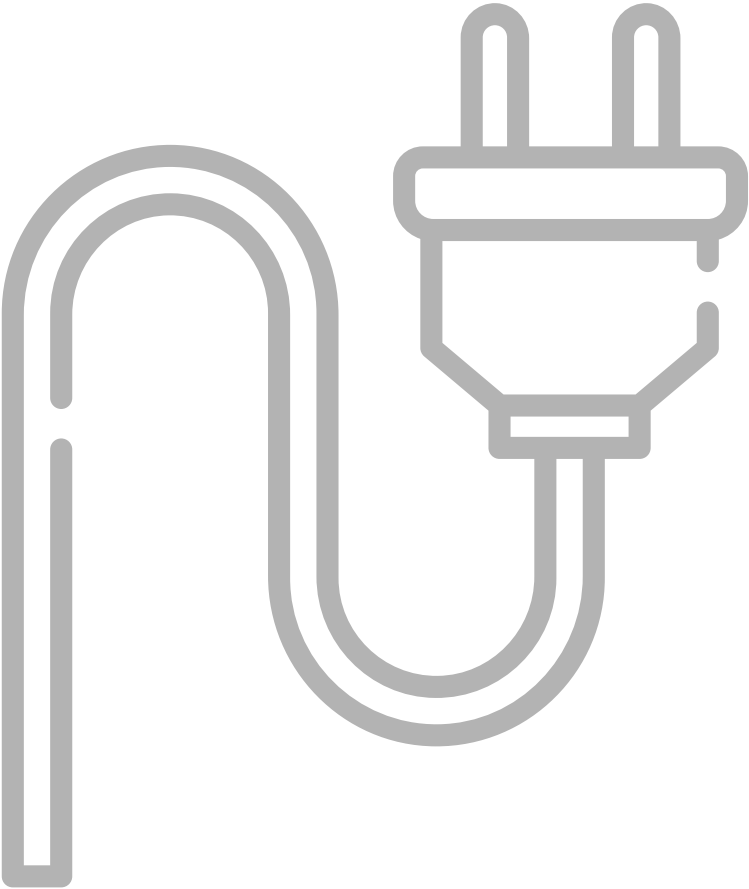
Electrical Equipment Layout

Lighting Layout

Main Tray and Support

Branch Tray and Support

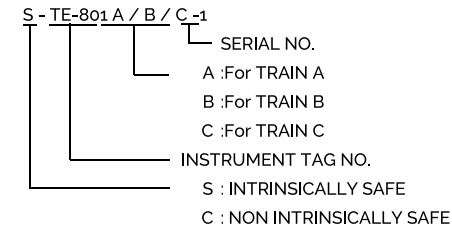
WIRING DIAGRAM FOR COMPRESSOR



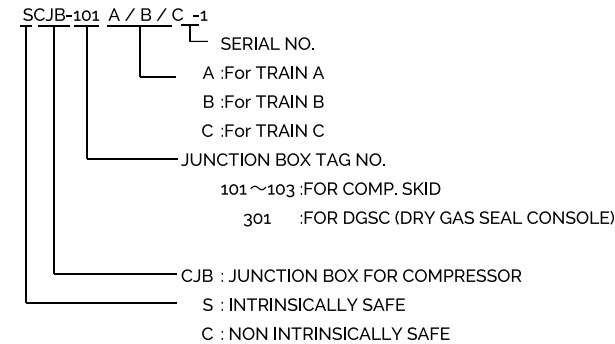
NOTES

- 1. All the cabling materials and works (Shown by dotted line "- - - - -") shall be supplied by PLATFORM CONTRACTOR.
- 2. CABLE and JUNCTION BOX numbering system are as follows.

1) INSTRUMENT CABLE



2) JUNCTION BOX



3. LEGEND

- BK : BLACK
W : WHITE
R : RED
SHD : SHIELD
- ⊕ : FLEXIBLE CONDUIT CONNECTOR
□ :CABLE GLAND

2

4. All cable cores shall be numbered with PVC CORE MARKER at each Terminal end.

5. The cable types using in this document are as follows:

(1) FR-Si for Transmitter

[Construction Details]

- Cable Type : 600V Flame Retardant as per IEC 60332-3 cat. A
 - Conductor : 7 Stranded tinned annealed copper
 - Insulation : PVC
 - Cable Core : 1Pr, White & Black
 - Screen : Individual and overall screen (Aluminum - Mylar tape)
 - Inner sheath PVC type SHF2
 - Armour : Galvanized steel wire braid
 - Outer sheath PVC type SHF2
- (SHF2 : POLYOLEFIN, FLAME RETARDANT, IEC 60332-3, Cat.'A')
Light Blue (Intrinsically safe circuit)

(2) FR-S for Solenoid Valve and Limit Switch

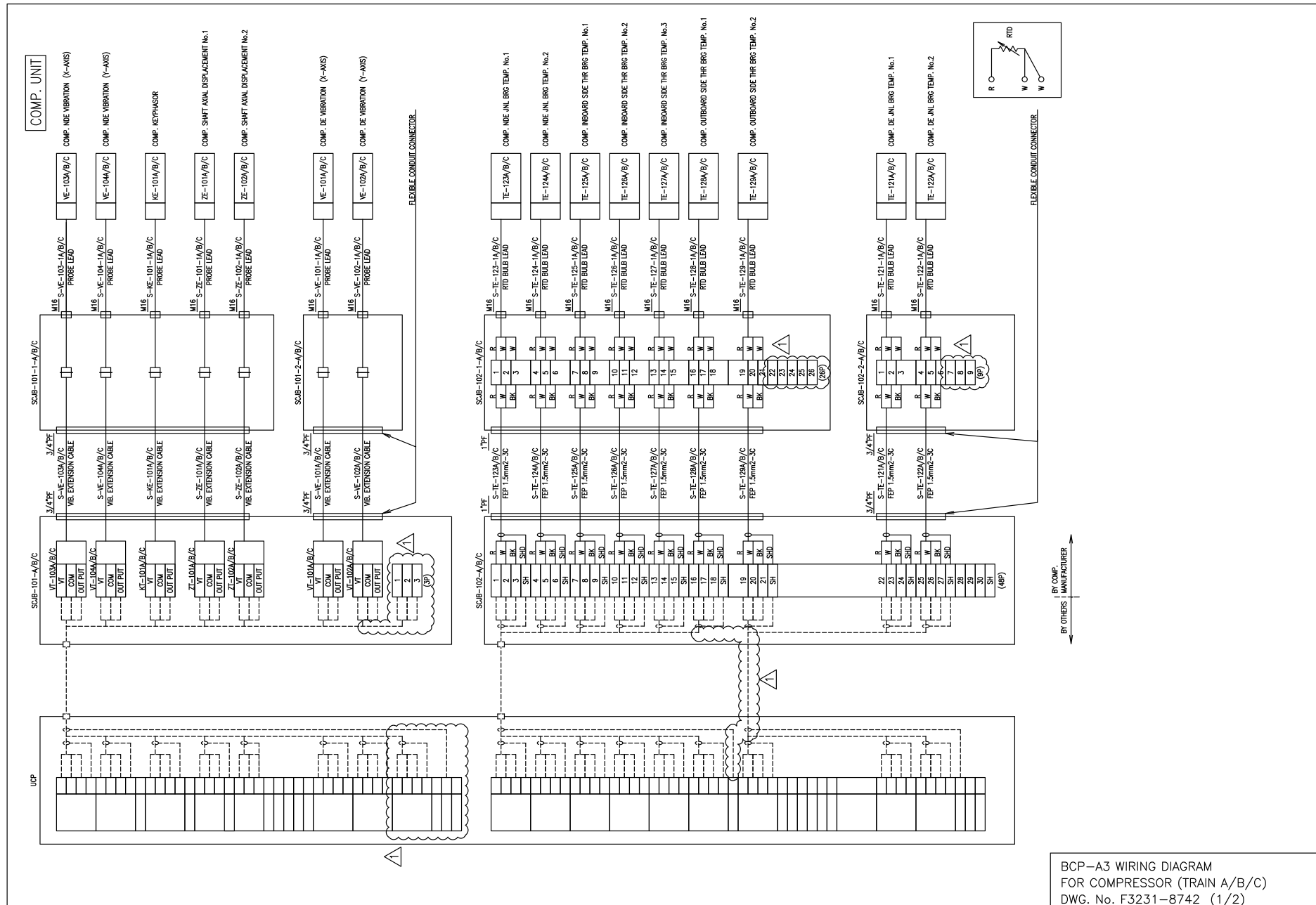
[Construction Details]

- Cable Type : 600V Flame Retardant as per IEC 60332-3 cat. A
 - Conductor : 7 Stranded tinned annealed copper
 - Insulation : PVC
 - Cable Core : 1Pr, White & Black
 - Screen : Individual and overall screen (Aluminum - Mylar tape)
 - Inner sheath PVC type SHF2
 - Armour : Galvanized steel wire braid
 - Outer sheath PVC type SHF2
- (SHF2 : POLYOLEFIN, FLAME RETARDANT, IEC 60332-3, Cat.'A')
Black (Non Intrinsically safe circuit)

(3) FEP(Fluorinated Ethylene Propylene) for COMP.RTD extension cable

[Construction Details]

- Conductor : Tinned annealed copper
- 1.5mm²
- Insulation : FEP(Fluorinated Ethylene Propylene)
- 3 C : Red, White, Black
- Shield : Tinned annealed copper
- braid with drain wire
- Outer sheath : FEP(Fluorinated Ethylene Propylene)
- Light Blue (Intrinsically safe circuit)





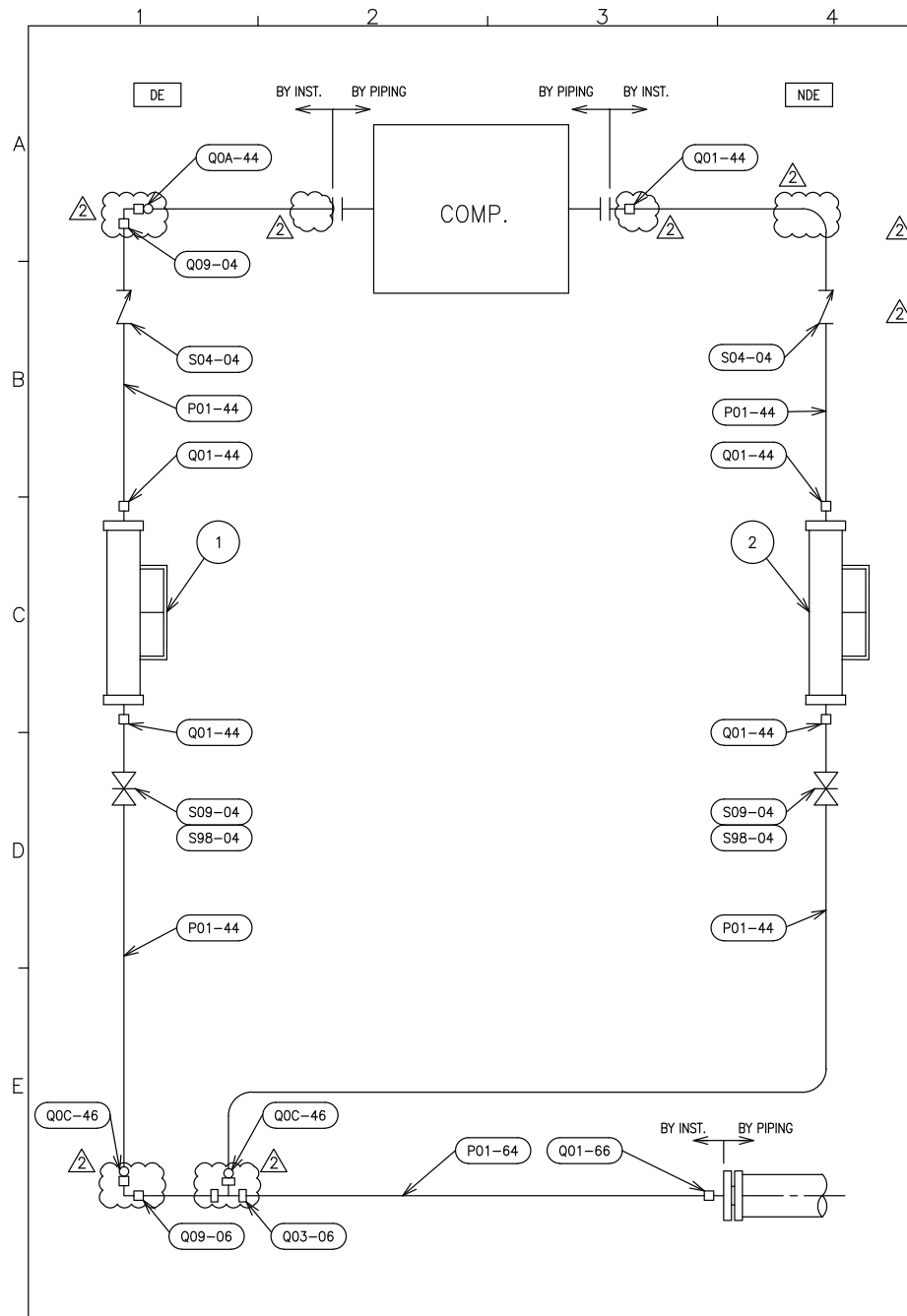
CONTENTS

	(PAGE No.)
I . NOTES	P1
II . DRAWING	(DRAWING No.)
1. PRESSURE GAUGE	F3231-8752.01
2. PRESSURE TRANSMITTER	F3231-8752.02
3. SEAL GAS FLOW LINE	F3231-8752.03
4. SEPARATION GAS FLOW LINE	F3231-8752.04
5. TEMPERATURE GAUGE	F3231-8752.05
6. PRESS CONTROL VALVE	F3231-8752.06

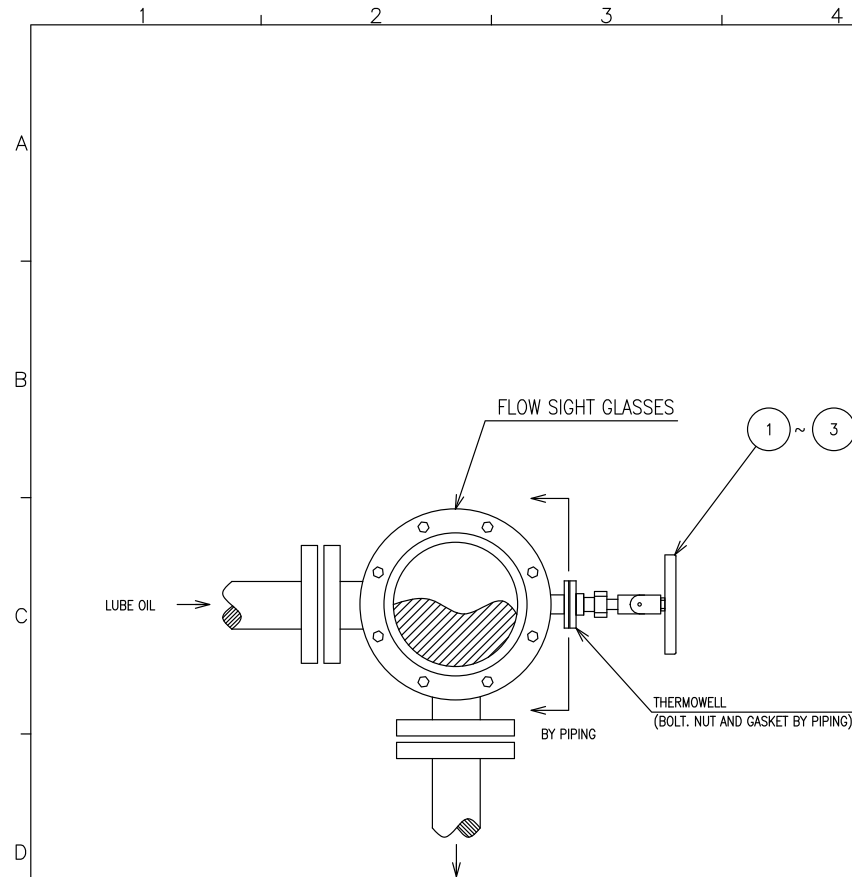
P1

I . NOTES

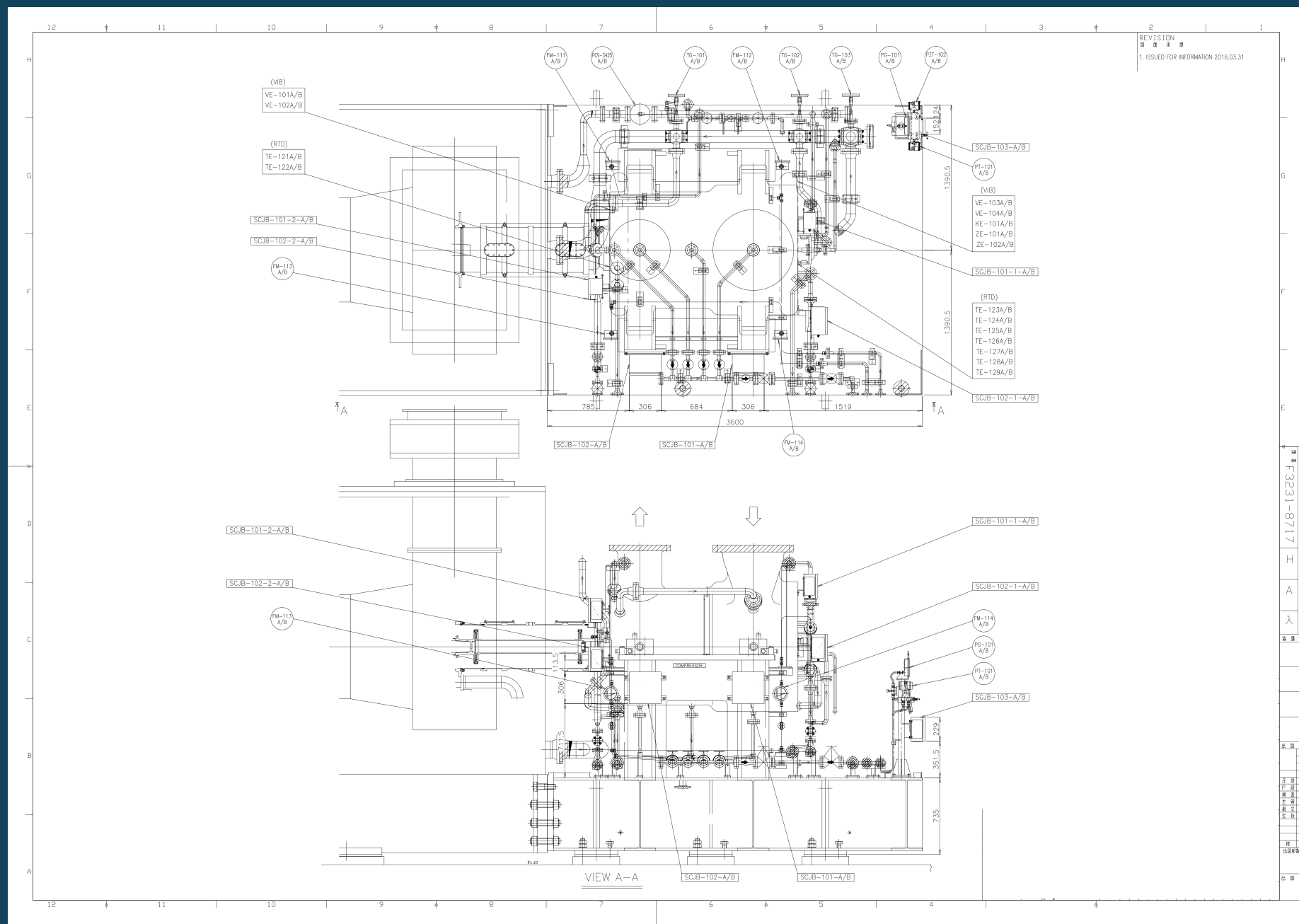
1. Tubing to locally mounted instruments shall not be routed across normal or emergency walkways, or interfere with access to equipment
2. Tubing shall be supported at intervals of not more than 1m in a continuous run and 300mm from a free end.
3. All tubing shall be supported with stainless steel trays/straps or Polypropylene tube clamps.
4. Tube fittings shall be Swagelok, 316SS.
5. Tube shall be Sandvik or Swagelok, 316SS.
6. This drawing is for Compressor only.
Hook-up of DRY GAS SEAL CONSOLE, WATER WASH, GAS TURBINE are not included in this drawing.
7. Impulse line to be kept as minimum as practical.

[illegible]

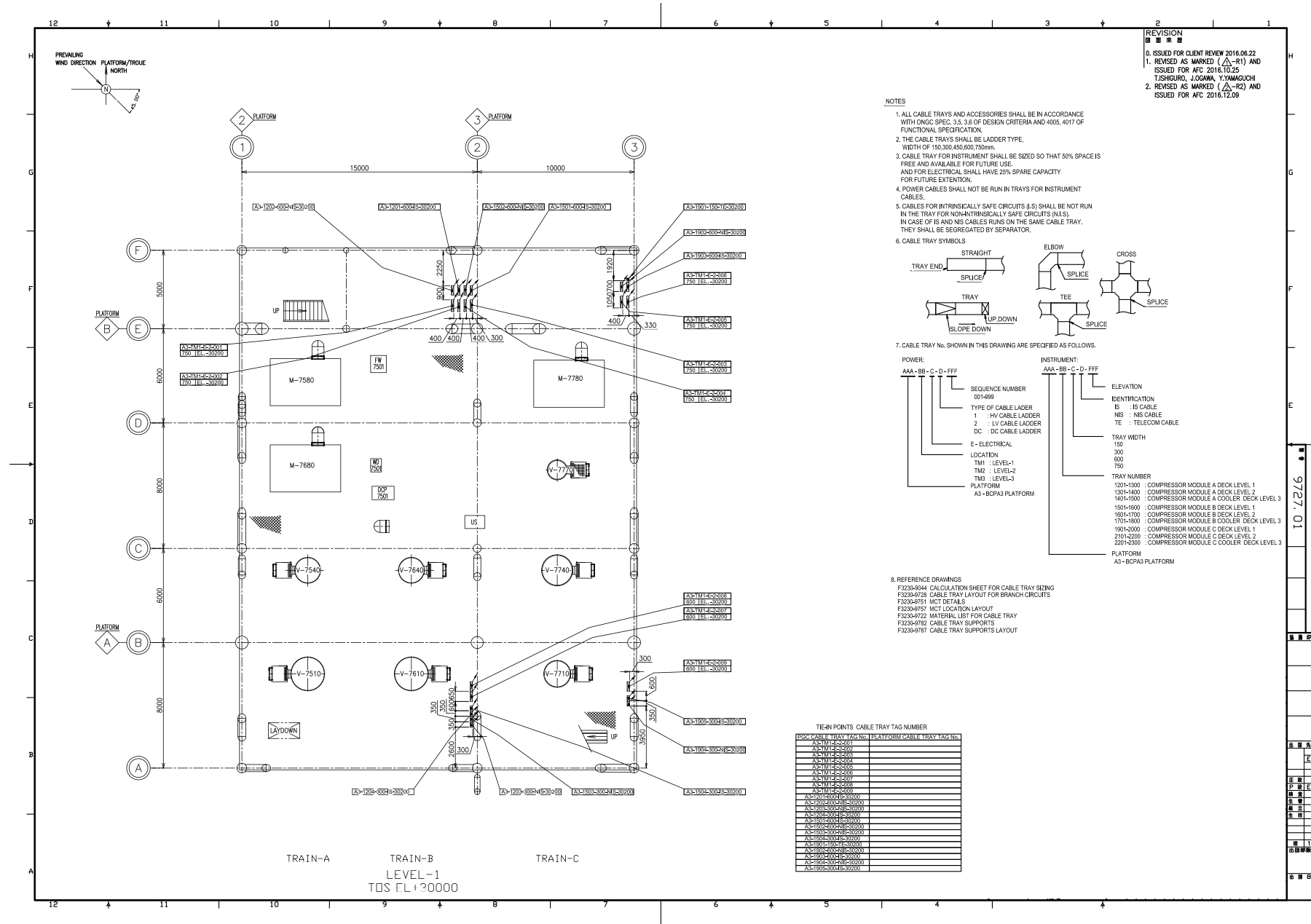
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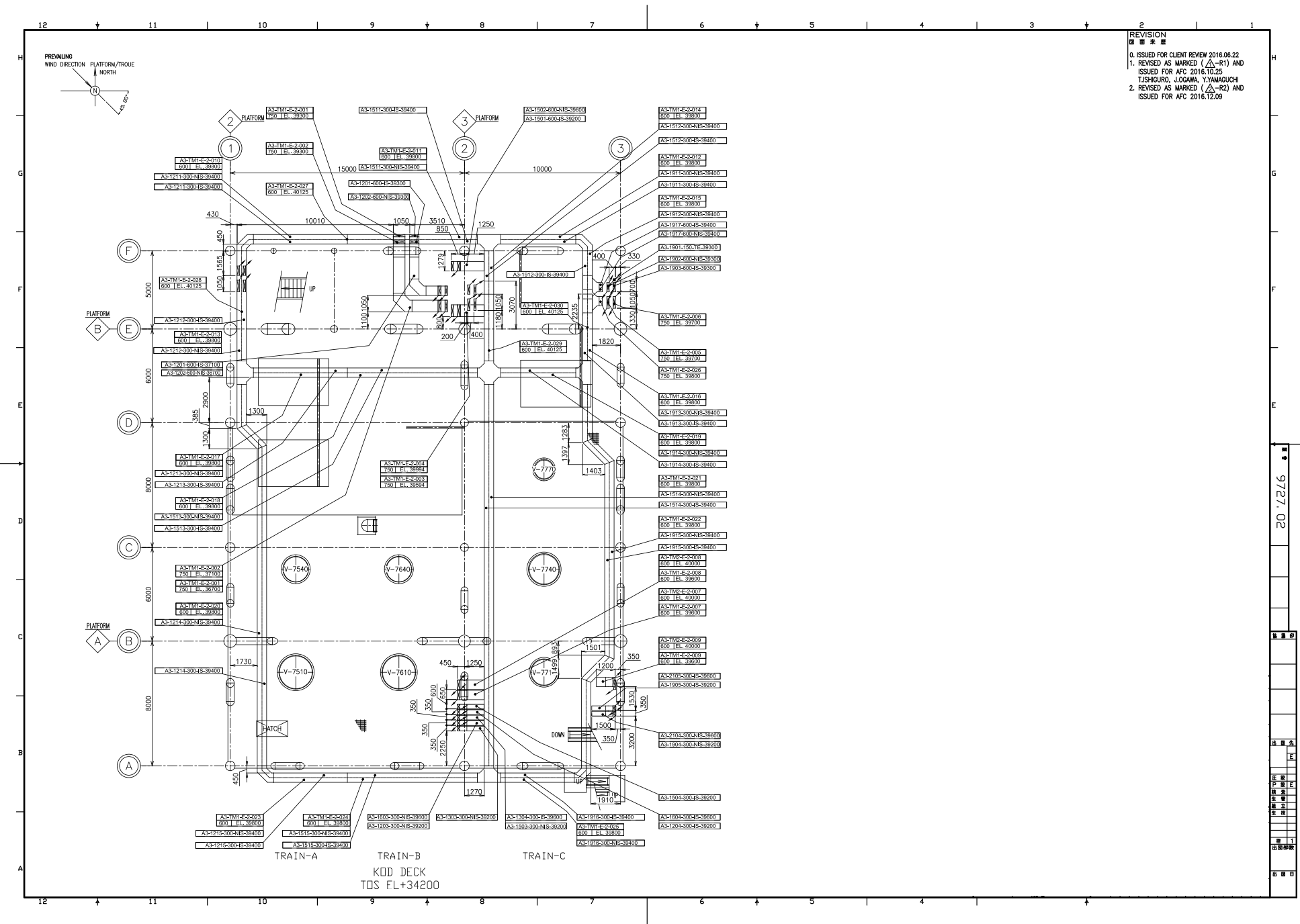
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Instrument and junction box layout for compressor



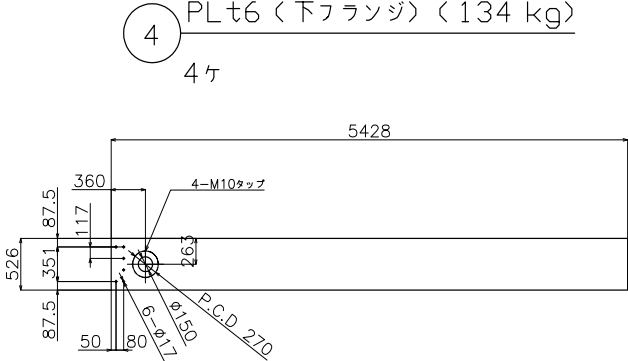
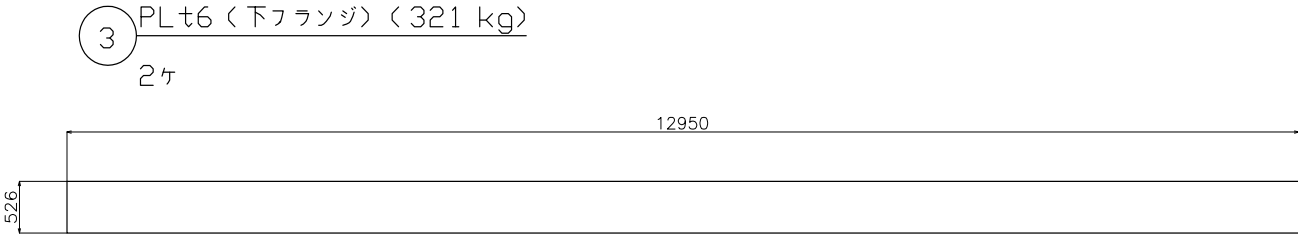
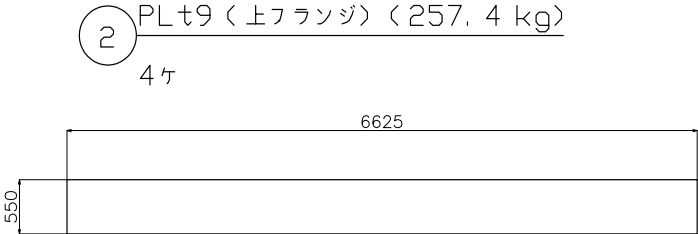
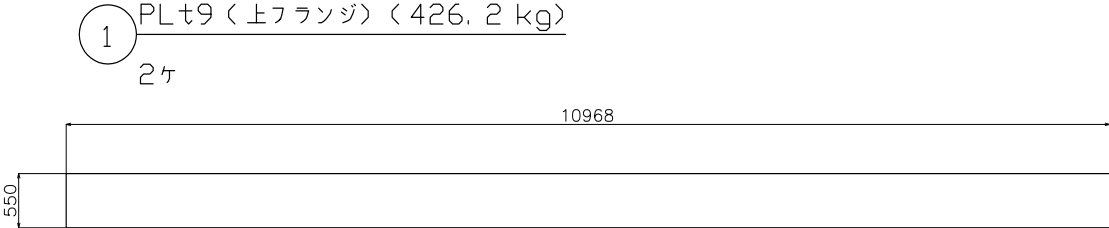
MAIN CABLE TRAY LAYOUT FOR MODULE



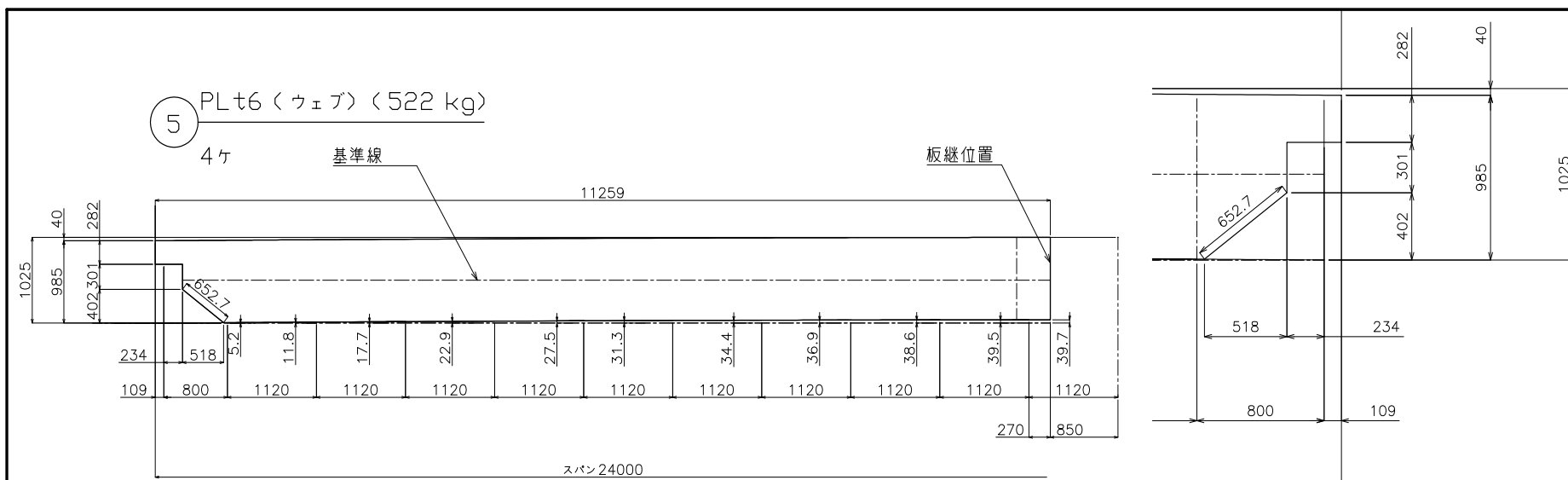


MECHANICAL ENGINEERING

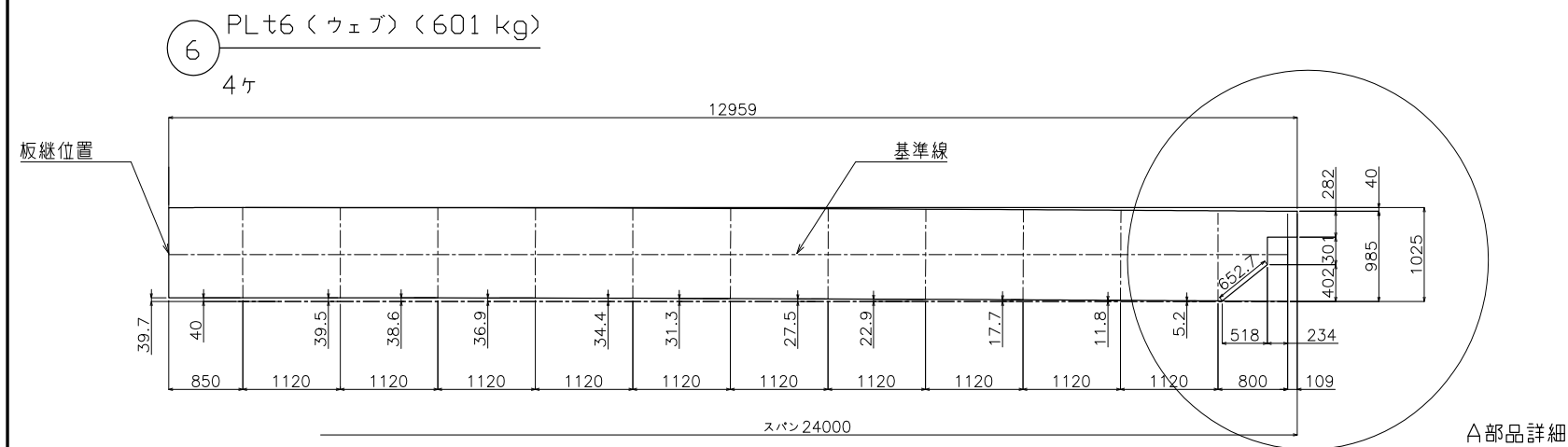
作図依頼書



ASIEM		APPROVED 承認		OWNER 注文主 HANWA CO.,LTD.	ORDER NO. 製番 -----	RULE規格
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3RD ANGLE PROJECTION		DATE 作成日	2019. 02. 14	DWG. NO. 図 番		REV. 訂正記号



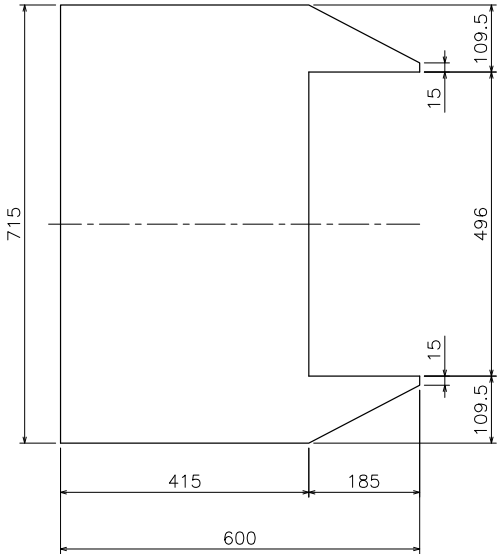
A部品詳細 (S=1/25)



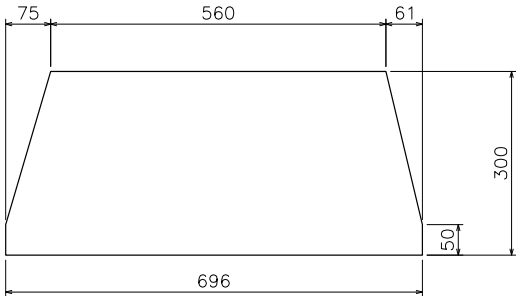
A部品詳細

ASIEM ASIEM DESIGN CO., LTD.		APPROVED 承認	OWNER 注文主 HANWA CO., LTD.	ORDER NO. 製番 -----	RULE 規格 -----
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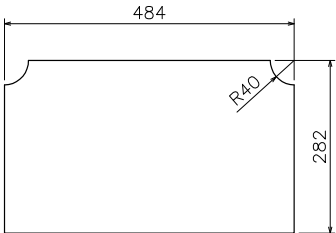
13 PLt9 (30. 3 kg)
4ヶ



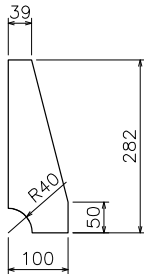
14 PLt9 (14. 8 kg)
4ヶ



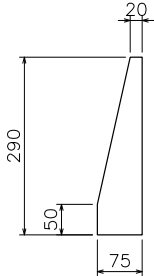
15 PLt9 (9. 6 kg)
4ヶ



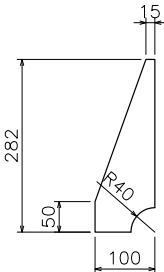
18 PLt9 (2 kg)
4ヶ



16 PLt6 (1 kg)
8ヶ

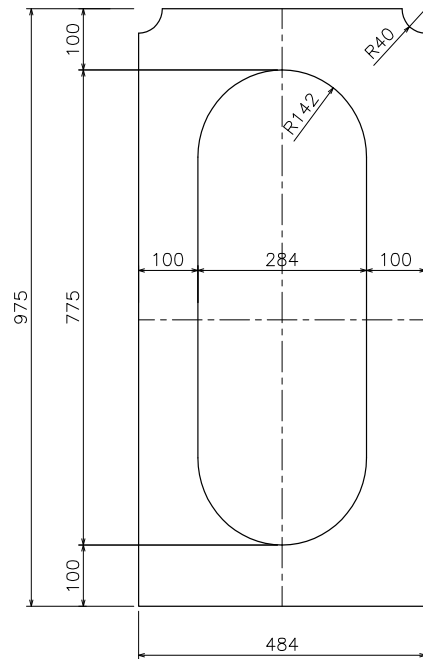


17 PLt9 (2 kg)
4ヶ

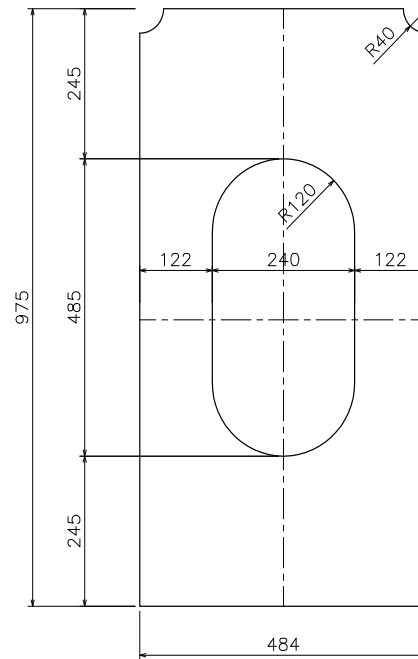


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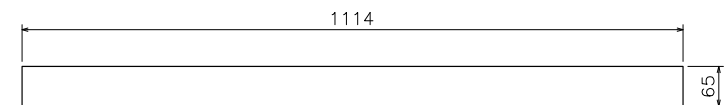
7 PLt6 (セパレータ) (12.5 kg)
26ヶ



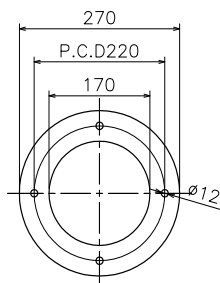
8 PLt6 (セパレータ) (17 kg)
16ヶ



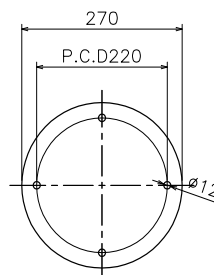
9 PLt6 (3.4 kg)
80ヶ



11 PLt12 (3.3 kg)
4ヶ



12 PLt6 (2.7 kg)
4ヶ



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