

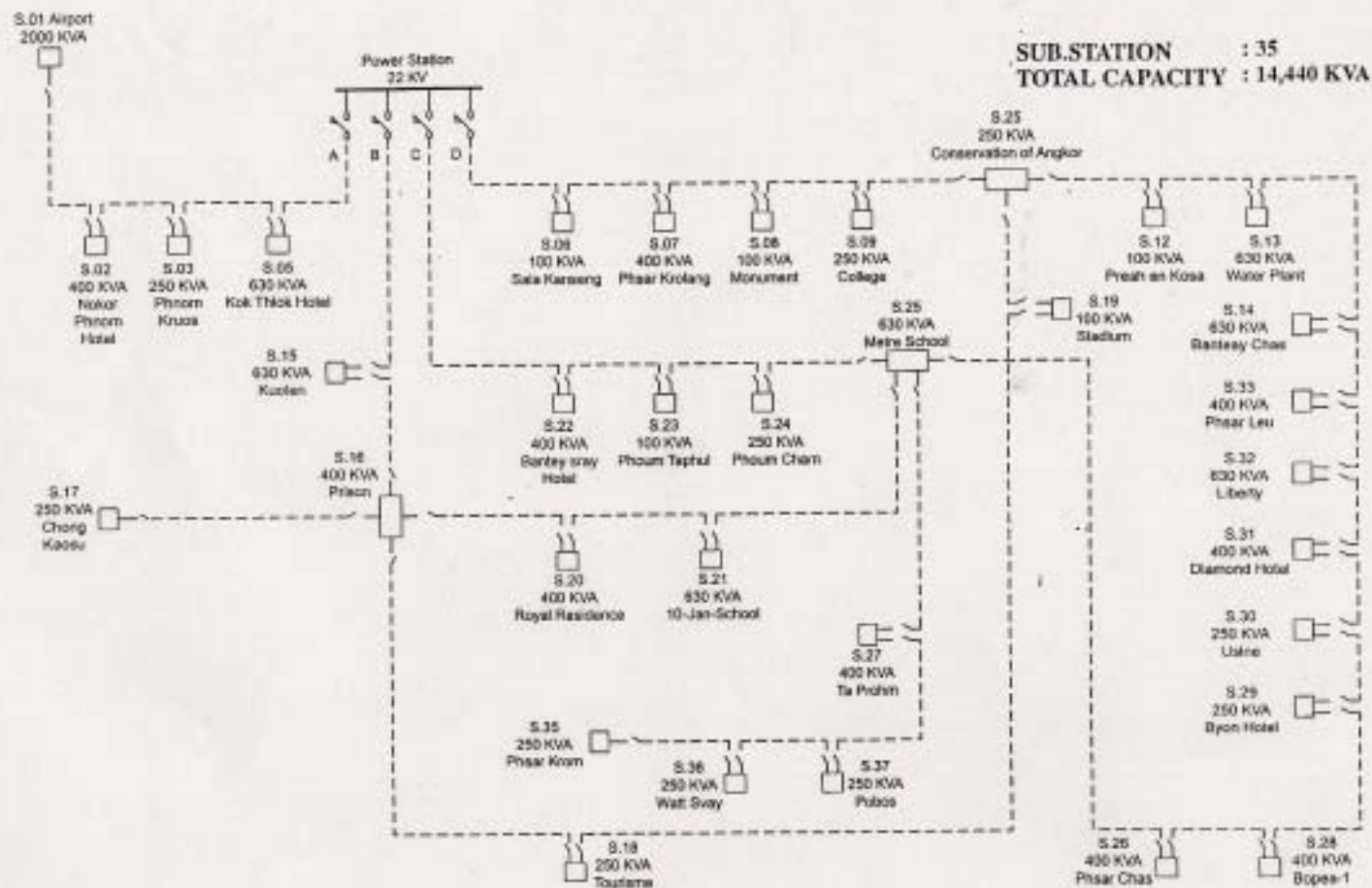
## **Drawings**

### **List of Drawings**

No	Drawing Number	Title
1	SRD-001	Equipment Layout in Existing Power Plant
2	SRD-002	Location of Power Plants 20kV Line Route
3	SRD-003	20 kV Distribution System
4	SRD-004	Layout of New Generating Facilities in Existing Power Station
5	SRD-005	Area Map of New Site
6	SRD-006	Layout of Generating Equipment in Power Station
7	SRD-007	Arrangement of Fuel Storage Tank
8	SRD-008	Starting Air System Diagram
9	SRD-009	Fuel Oil System Diagram
10	SRD-010	Lubricating Oil System Diagram
11	SRD-011	Cooling Water System Diagram
12	SRD-012	Single-Line Connection Diagram
13	SRD-013	22 kV Underground Cable Laying Plan
14	SRD-014	Construction of Concrete Piles
15	SRD-015	Layout of Generating Facilities in Power Station Land
16	SRD-016	Power Station Building Plan
17	SRD-017	Power Station Building Section
18	SRD-018	Office Plan







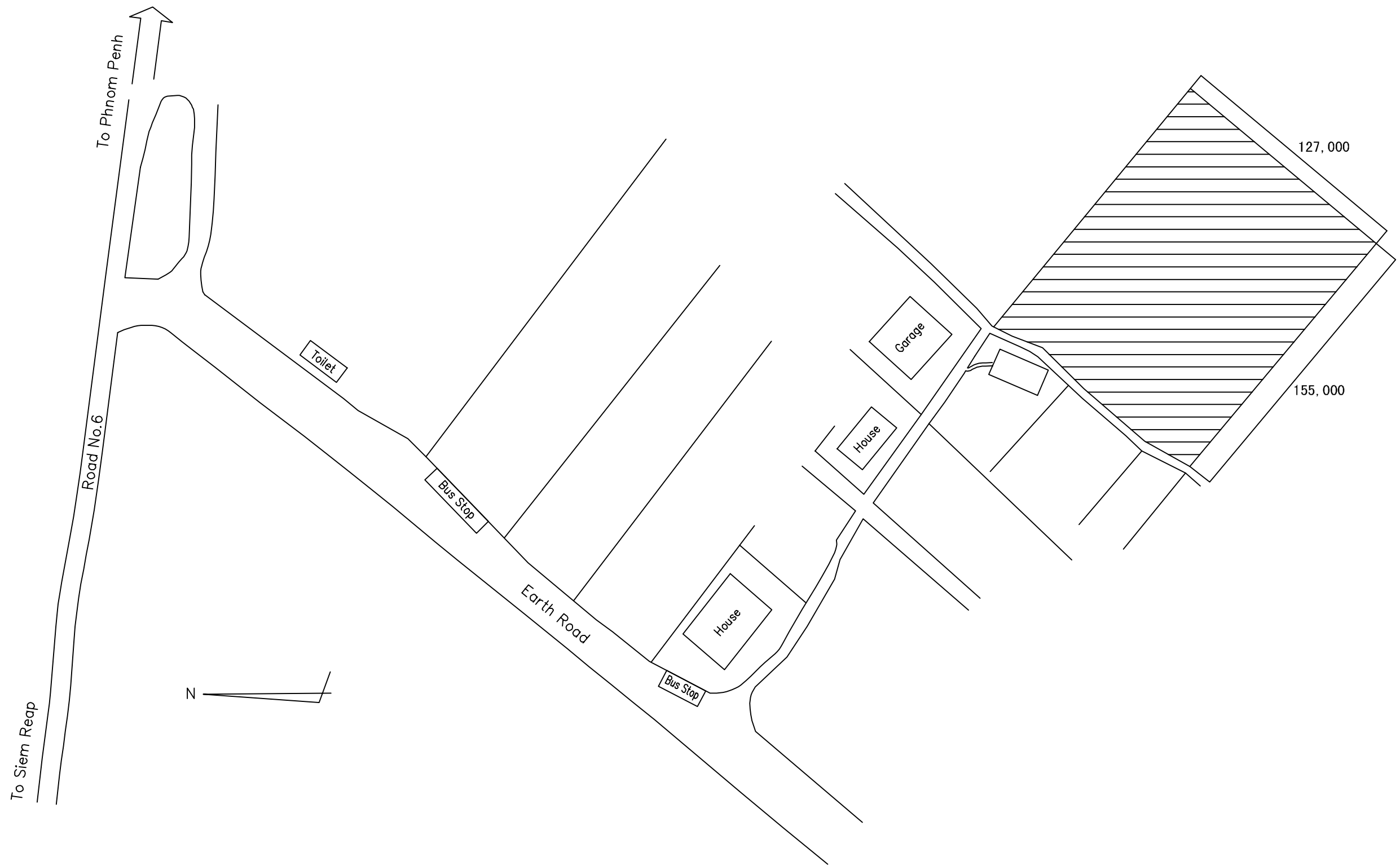
#### Notice

- Substation
- Breaker
- Interrupter
- Overhead Line
- Underground Cable

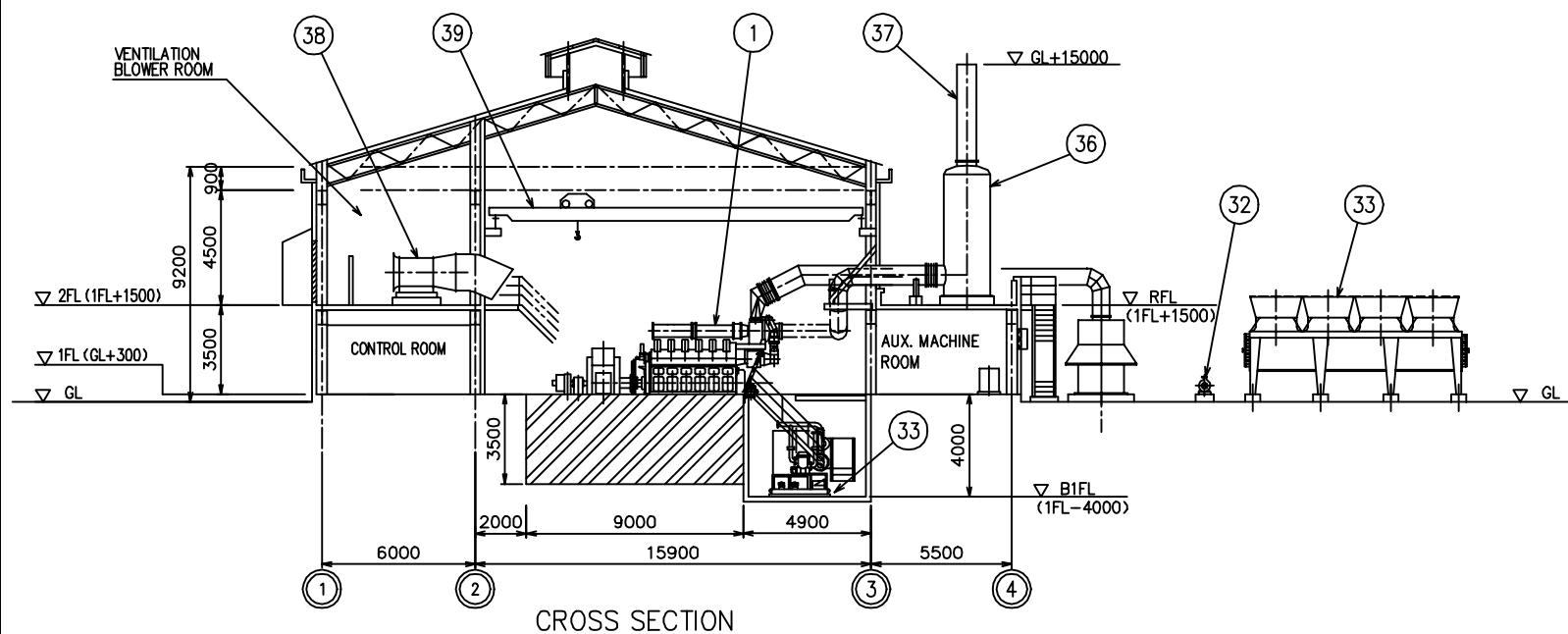
MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SEM REAP GENERATING FACILITIES			
DWG	Y. YAMAMOTO	SCALE	TITLE
CHD	Y. SUNAKURA	DATE	22KV DISTRIBUTION SYSTEM
APD	Y. SUNAKURA		
APPROVED BY			
DATE			
DWG NO			SPD-003



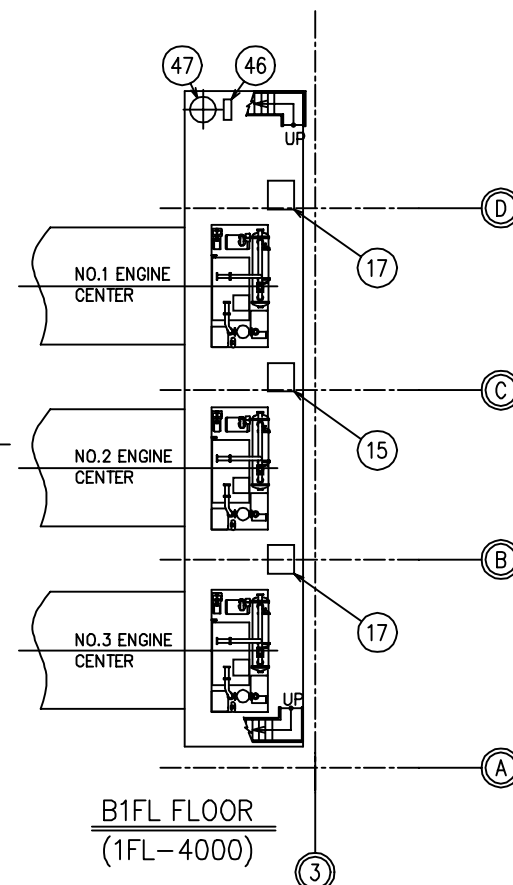




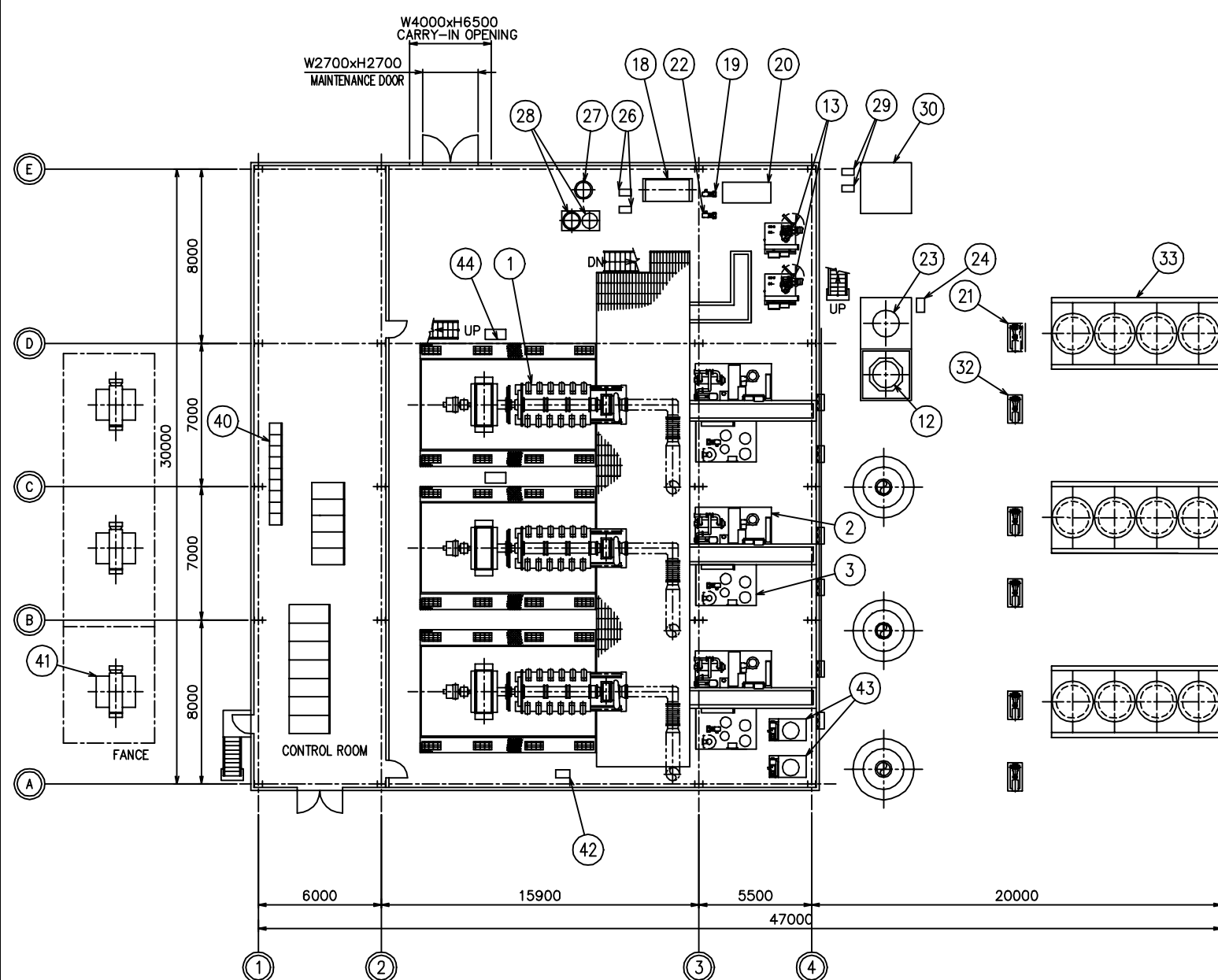
MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES				
DWN	T.YAMAMOTO	SCALE	TITLE  AREA MAP OF NEW SITE	
CHKD	Y.SUNAGAWA			
APPD	Y.SUNAGAWA	DATE	DWG NO  SRD-005	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN				



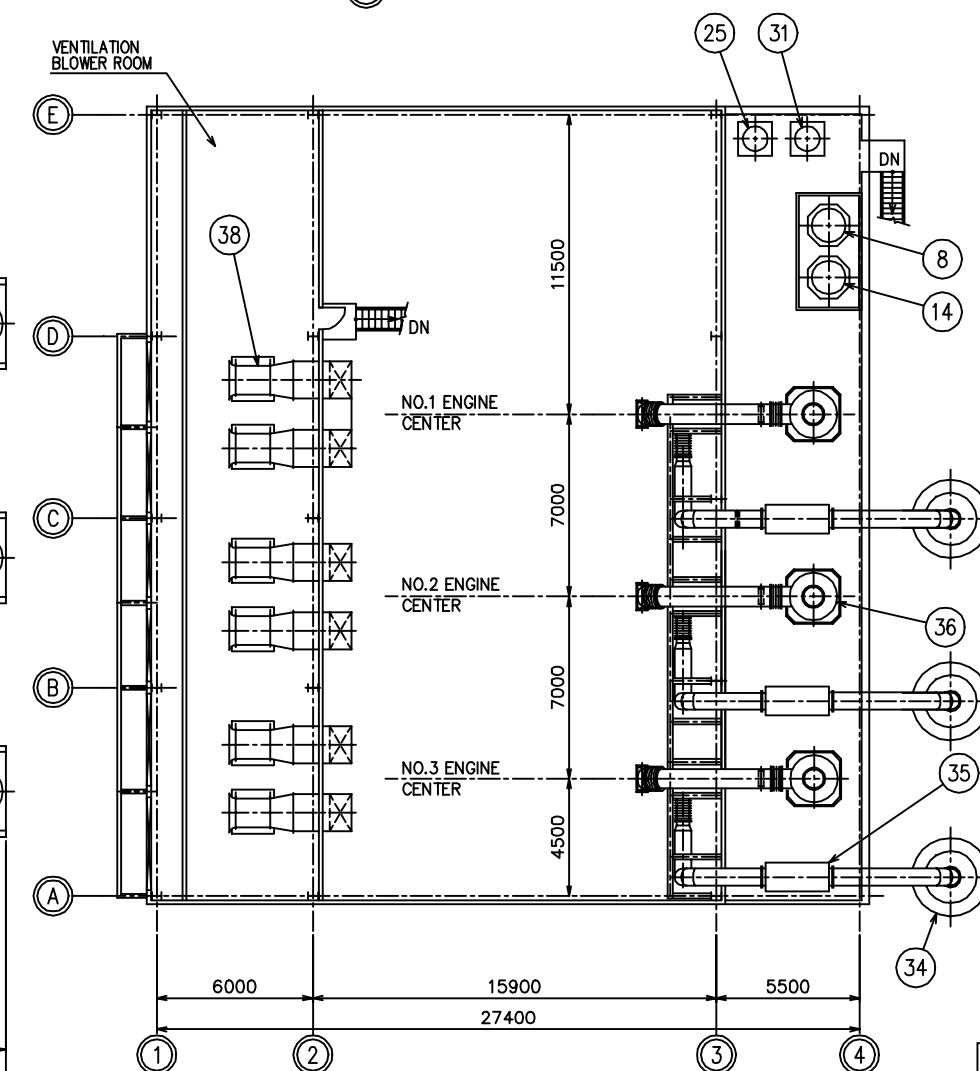
CROSS SECTION



B1FL FLOOR  
(1FL-4000)



OUTDOOR AND FIRST FLOOR



SECOND FLOOR & ROOF FLOOR

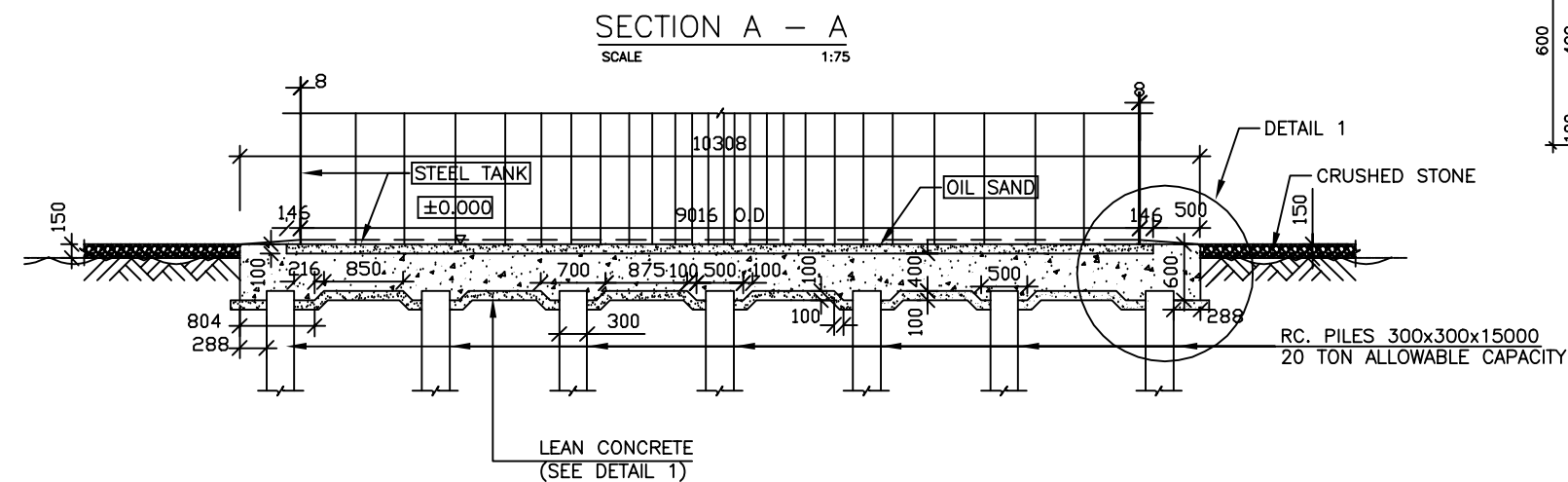
47	Cooling water recovery tank	1		1kl	
46	Cooling water recovery pump	1			
45	Oily water separator pit	1	—		
44	Engine gauge panel	3	1.0		
43	Air compressor unit	2sets			
42	Lub. oil transfer pump	1	0.2		
41	Station transformer	3	—		
40	Electric control panel	1set	—		
39	O.H Traveling crane	1	—		
38	Ventilation blower	1set	—		
37	Tail pipe	3	0.5		
36	Exhaust gas silencer	3	5.4		
35	Intake air filter	3sets	0.7		
34	Intake air silencer	3sets	—		
33	Radiator	3sets	—		
32	Secondary cooling water pump	3	0.4		
31	Expansion tank	1	1.5	1000l	
30	Water tank	1	—		
29	Raw water supply pump	1+1	0.3		
28	Water softener	1	3.0		
27	Soft water tank	1	3.5	1kl	
26	Soft water circulating pump	1+1	0.3		
25	Jacket cooling water tank	1	1.5	1000l	
24	Sludge transfer pump	1	0.3		
23	Sludge tank	1	1.2	3kl	
22	Sludge discharge pump	1	0.3		
21	Jacket cooling water pump	3	1.2	1kl	
20	Oily water separator	1			
19	Oily water pump	1	0.3		
18	Oily water separator tank	1	2.3	3kl	
17	Waste oil tank unit	2	0.9	300l	
16					
15	Fuel oil drain tank unit	1	0.9	300l	
14	Heavy fuel oil service tank	1	2.3	2kl	
13	Heavy fuel oil purifier unit	2sets			
12	Heavy fuel oil buffer tank	1	2.3	2kl	
11	Heavy fuel oil transfer pump	1+1			
10	Heavy fuel oil unloading pump	1+1			
9	Heavy fuel oil storage tank	2			
8	Diesel fuel oil service tank	1	2.3	2kl	
7	Diesel fuel oil transfer pump	1+1	0.3		
6	Diesel fuel oil storage tank	1			
5	Diesel fuel oil unloading pump	1+1			
4					
3	Aux.machine block (B)	3sets			
2	Aux.machine block (A)	3sets			
1	Diesel engine & generator	3sets	89.0		
No.	NAME	Q' ty	WEIGHT (ton)	REMARKS	

MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA  
THE PROJECT FOR SIEM REAP GENERATING FACILITIES

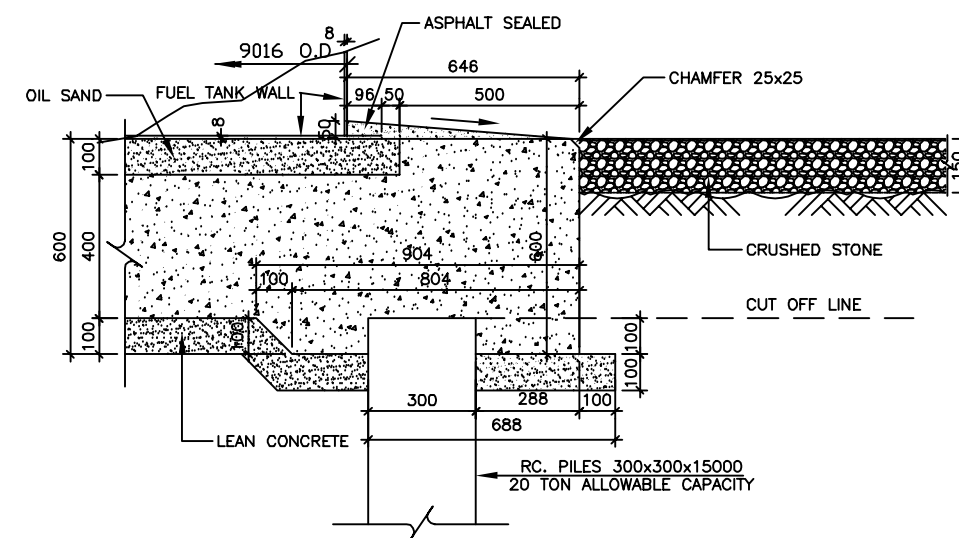
DWN	T.YAMAMOTO	SCALE	TITLE
CHKD	Y.SUNAGAWA	DATE	LAYOUT OF GENERATING EQUIPMENT IN POWER STATION
APPD	Y.SUNAGAWA		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		DWG NO	SRD-006



SCALE 1:75

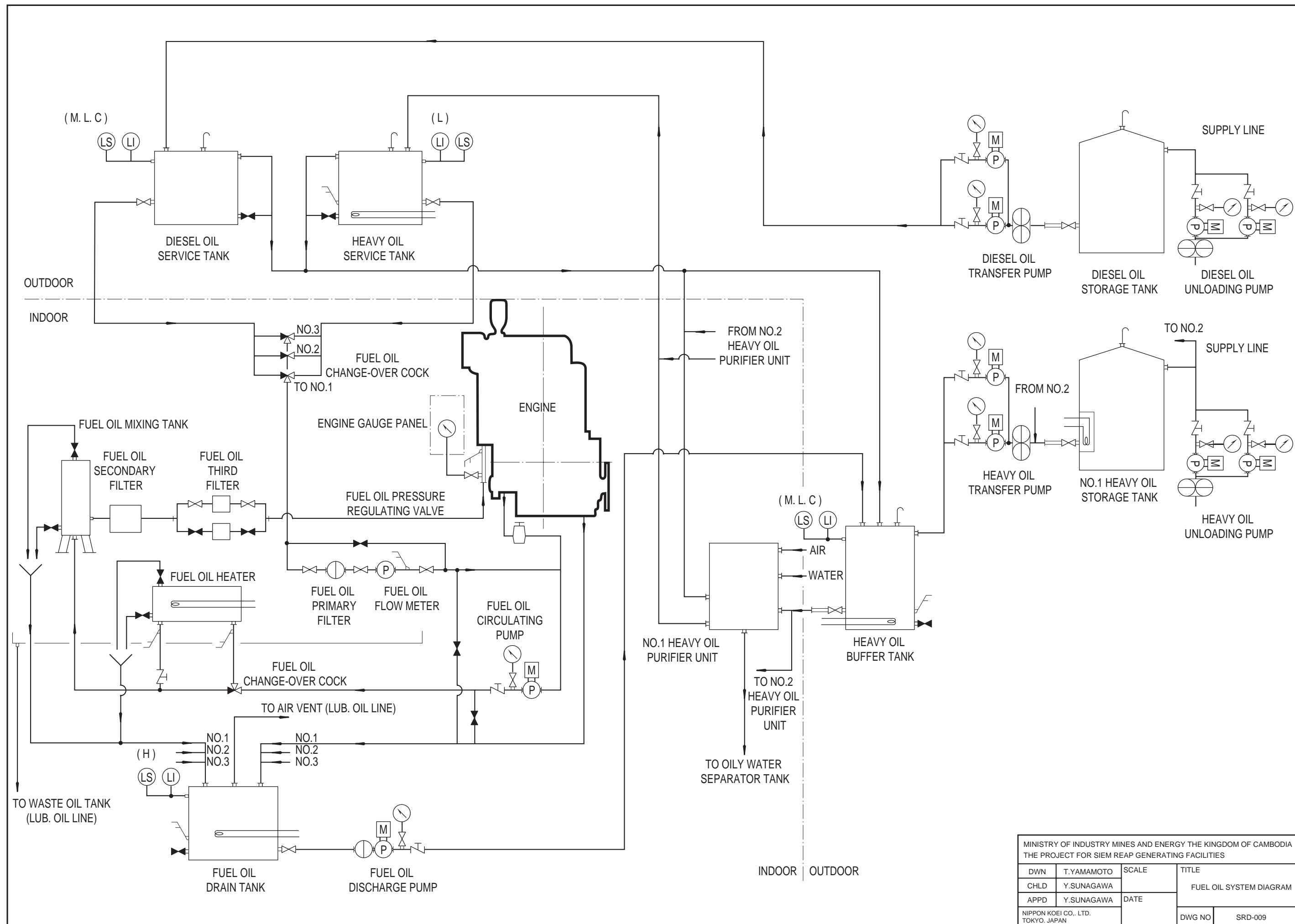


SCALE 1:75

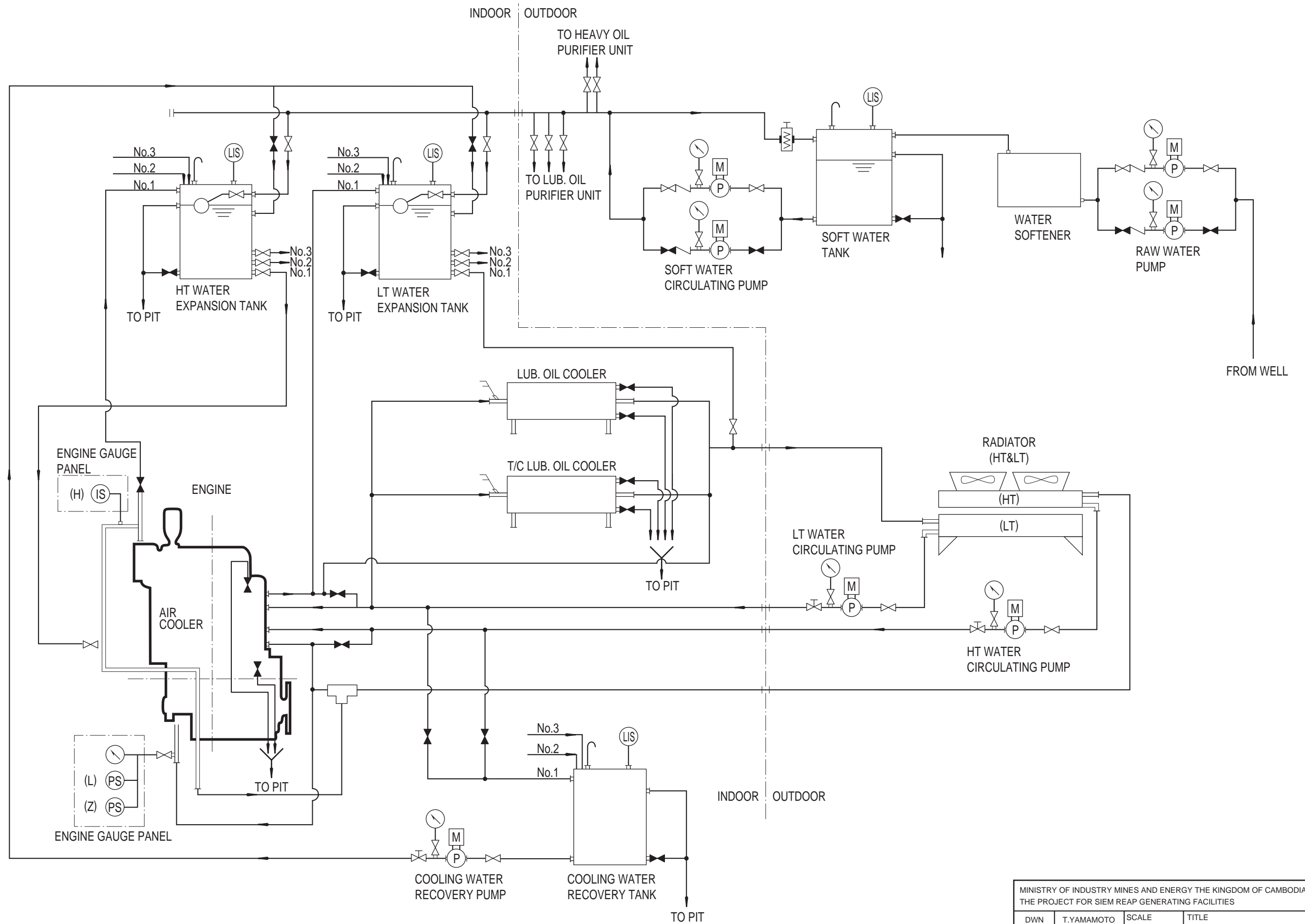


MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES			
DWN	T.YAMAMOTO	SCALE	TITLE
CHKD	Y.SUNAGAWA	DATE	ARRANGEMENT OF FUEL STORAGE TANK
APPD	Y.SUNAGAWA		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN.		DWG NO	SRD-007

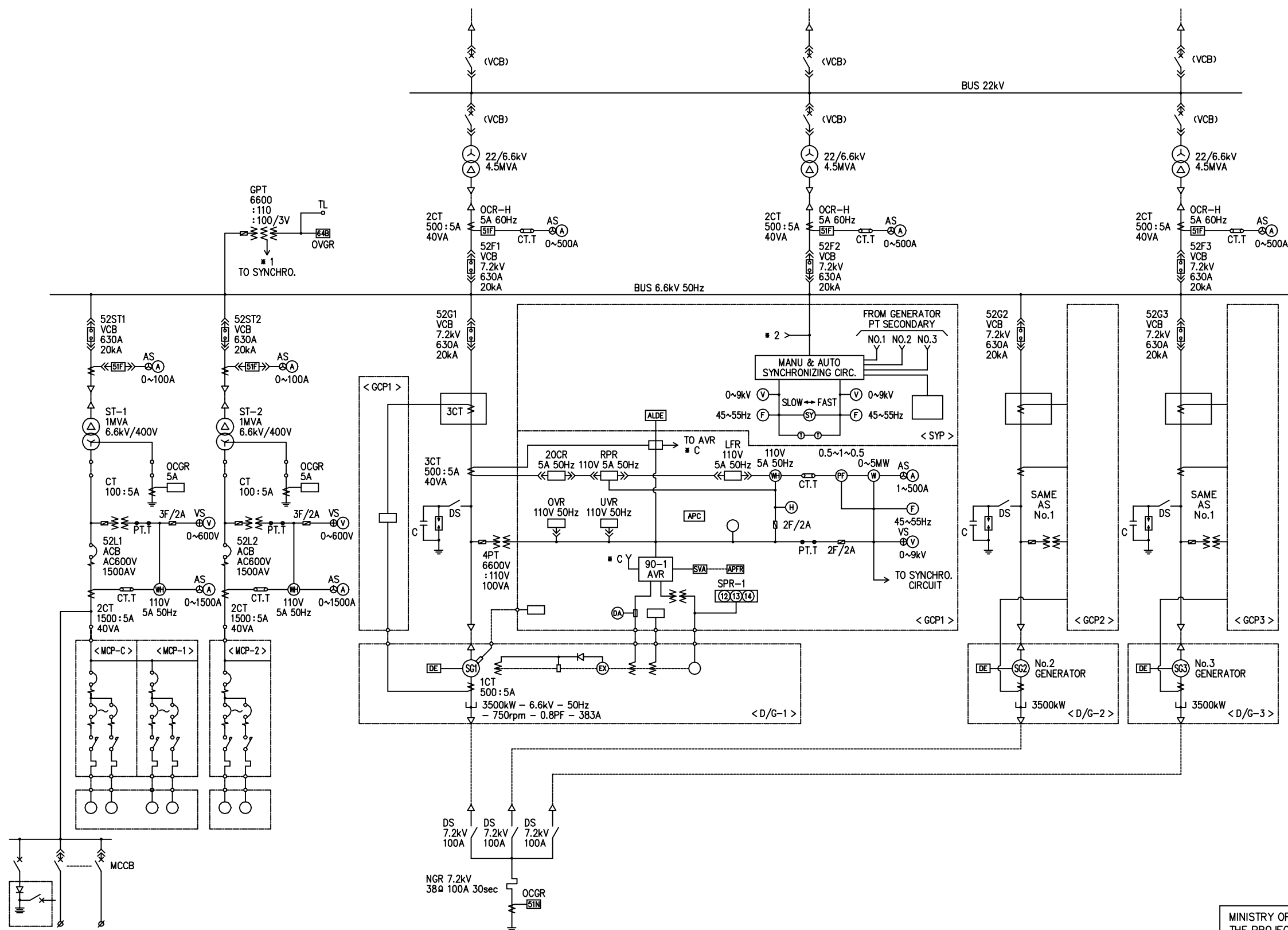








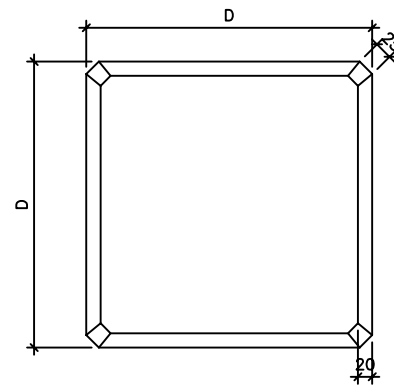
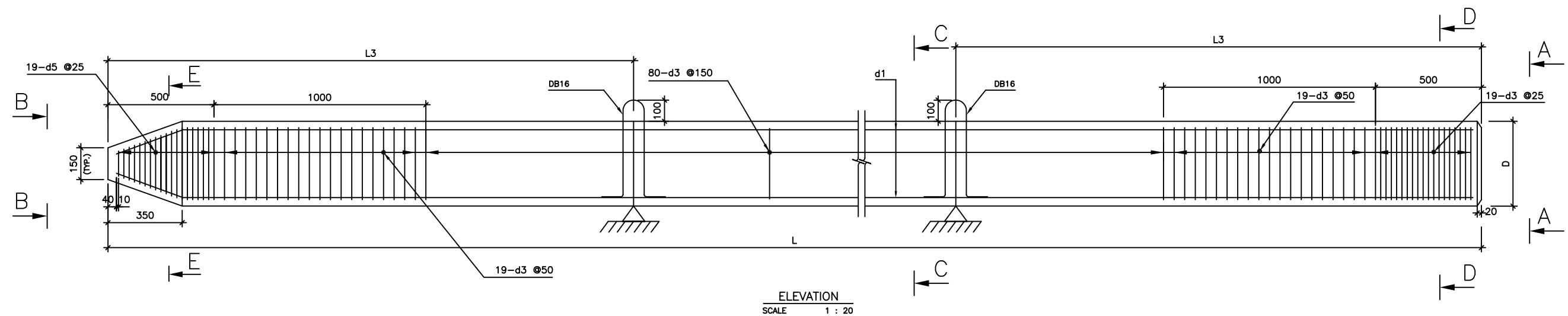
MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES			
DWN	T.YAMAMOTO	SCALE	TITLE COOLING WATER SYSTEM DIAGRAM
CHLD	Y.SUNAGAWA		
APPD	Y.SUNAGAWA	DATE	
NIPPON KOEI CO., LTD. TOKYO, JAPAN			DWG NO
			SRD-011



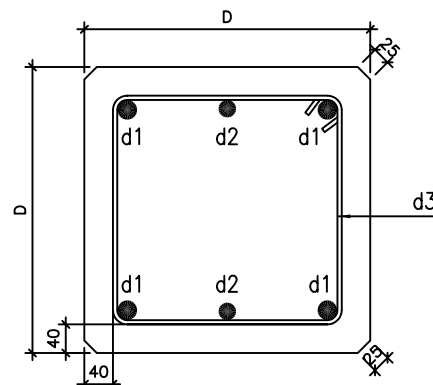
MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES				
DWN	T.YAMAMOTO	SCALE	TITLE	
CHKD	Y.SUNAGAWA		SINGLE-LINE CONNECTION DIAGRAM	
APPD	Y.SUNAGAWA	DATE		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN			DWG NO	SRD-012



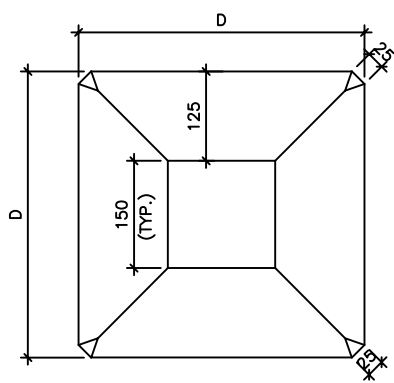




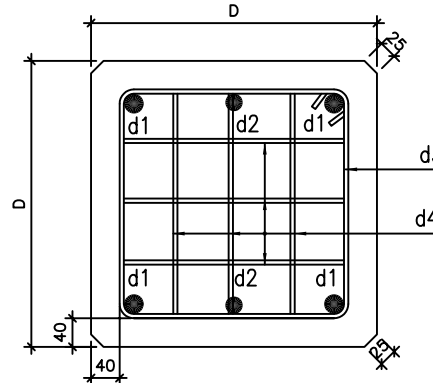
A-A  
SCALE 1:10



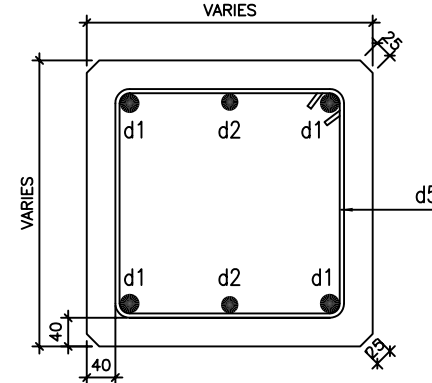
C-C  
SCALE 1:10



B-B  
SCALE 1:10



D-D  
SCALE 1:10



E-E  
SCALE 1:10

#### REINFORCEMENT LIST :

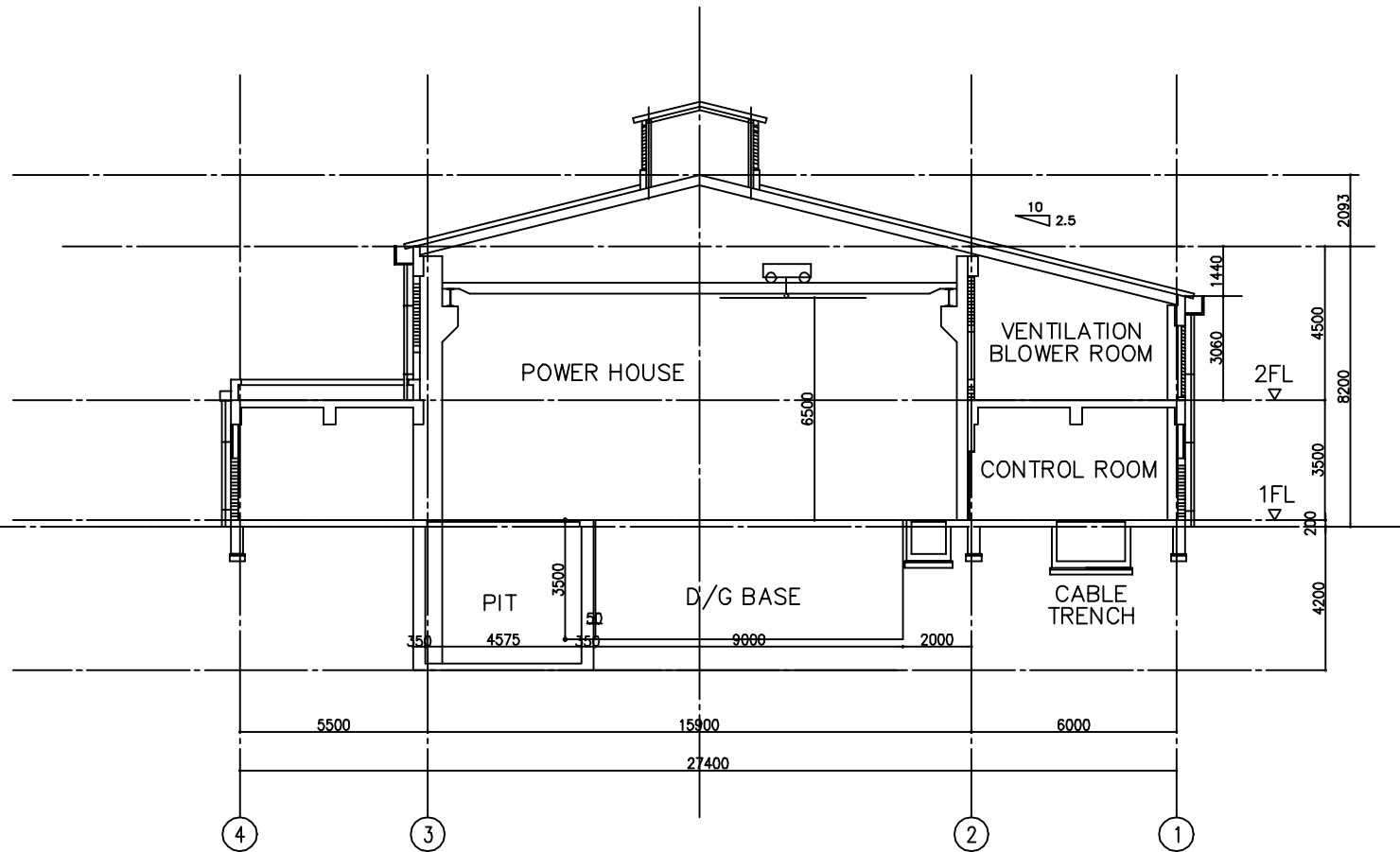
PILE LENGTH L (m)	SIZE D (mm)	LIFTING LENGTH L3 (mm)	BAR DIA./NUMBER d1 / N1		BAR DIA./NUMBER d2 / N2		LINK DIA./NUMBER d3 / N3		LINK DIA./NUMBER d4 / N4		LINK DIA./NUMBER d5 / N5	
15.000	300x300	3100	25	4	20	2	6	137	6	120	6	19
15.000	350x350	3100	25	4	25	2	6	137	6	120	6	19
15.000	400x400	3100	28	4	25	2	6	137	6	120	6	19

#### GENERAL NOTES

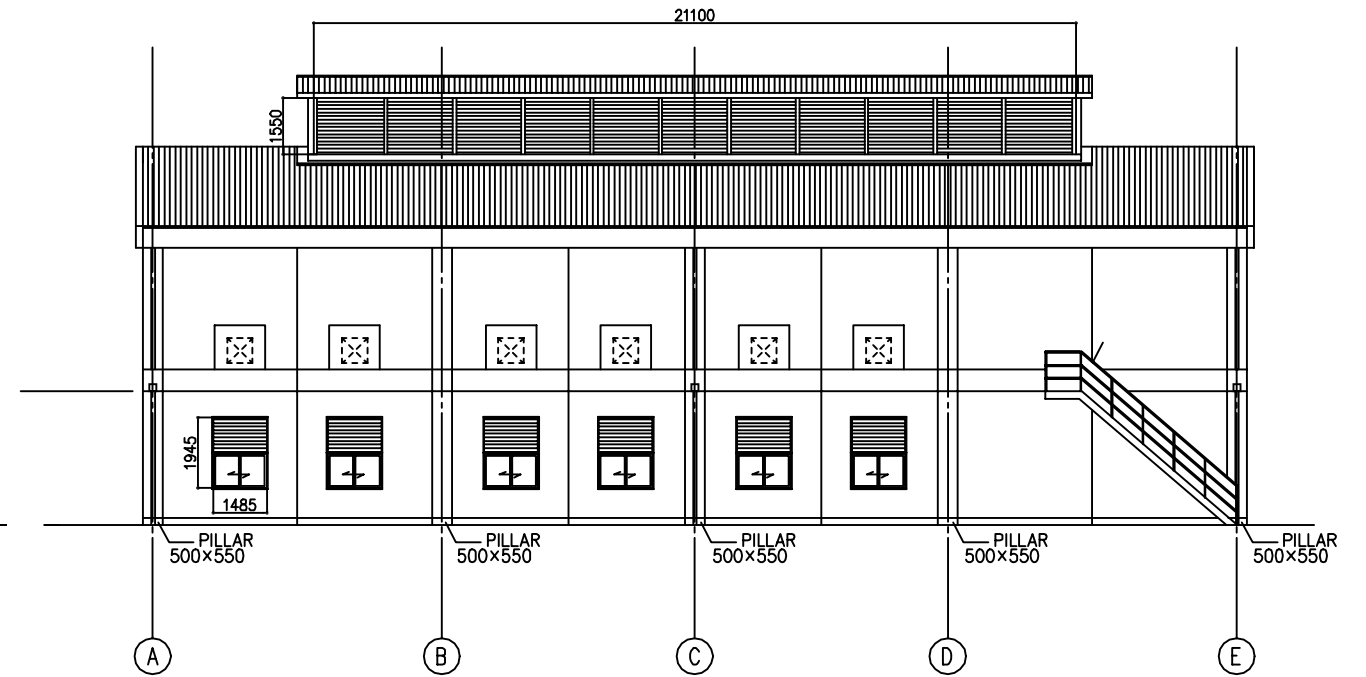
- 1-ALL DIMENSIONS ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN.
- 2-ALL COVER SHALL BE 25mm MINIMUM.
- 3-MAIN BARS TO BE OF DB-DEFORMED BAR OF GRADE SD40 HAVING A CHARACTERISTIC YIELD STRENGTH  $f_y=390 \text{ N/mm}^2$ .
- 4-STRUCTURAL CONCRETE TO HAVE A CHARACTERISTIC CYLINDER STRENGTH  $f_c'=310 \text{ kg/cm}^2$ .
- 5-LINKS TO BE OF RB-ROUND PLAIN BAR OF GRADE SR24 HAVING A CHARACTERISTIC YIELD STRENGTH  $f_y=235 \text{ N/mm}^2$ .
- 6-REQUIRED PILE LENGTH IS UP TO SOILS CONDITION
- 7-ALLOWABLE PILE BEARING CAPACITY 25 TONNES FOR 300x300
- 8-ALLOWABLE PILE BEARING CAPACITY 34 TONNES FOR 350x350
- 9-ALLOWABLE PILE BEARING CAPACITY 42 TONNES FOR 400x400

MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES				
DWN	T.YAMAMOTO	SCALE	TITLE	
CHKD	Y.SUNAGAWA		CONSTRUCTION OF CONCRETE PILES	
APPD	Y.SUNAGAWA	DATE		
NIPPON KOEI CO.,LTD. TOKYO, JAPAN			DWG NO	SRD-014

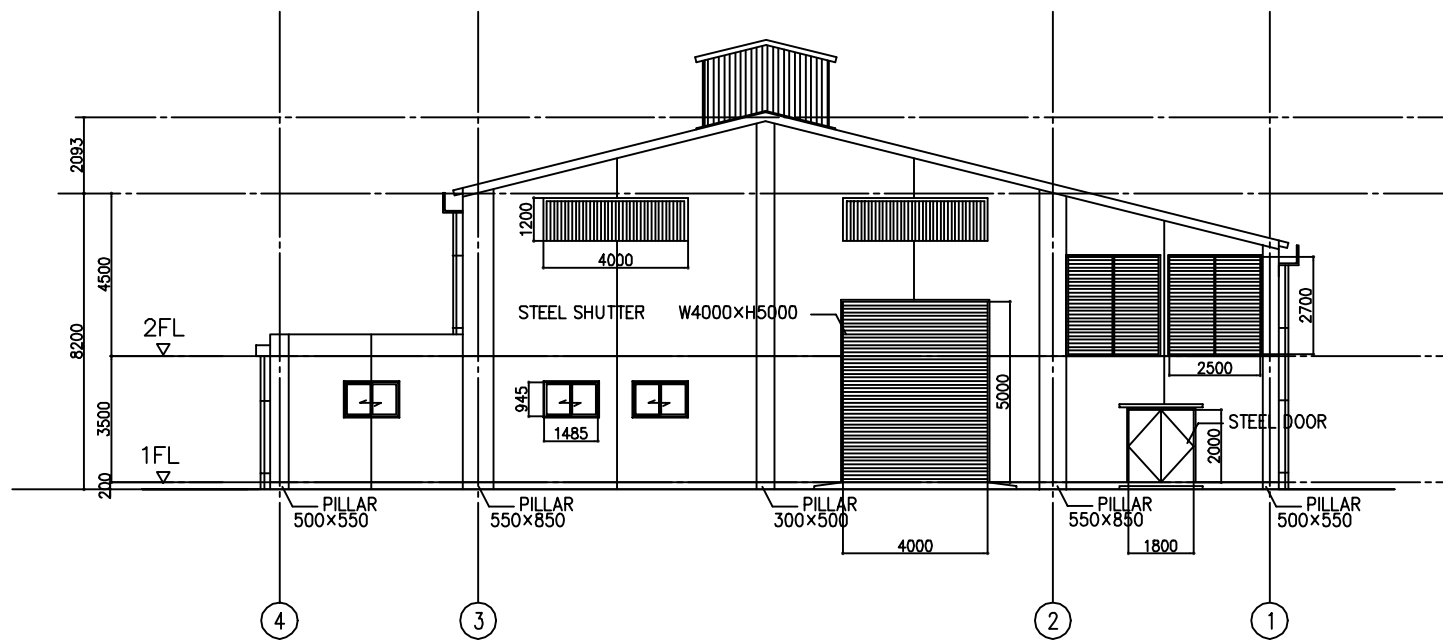




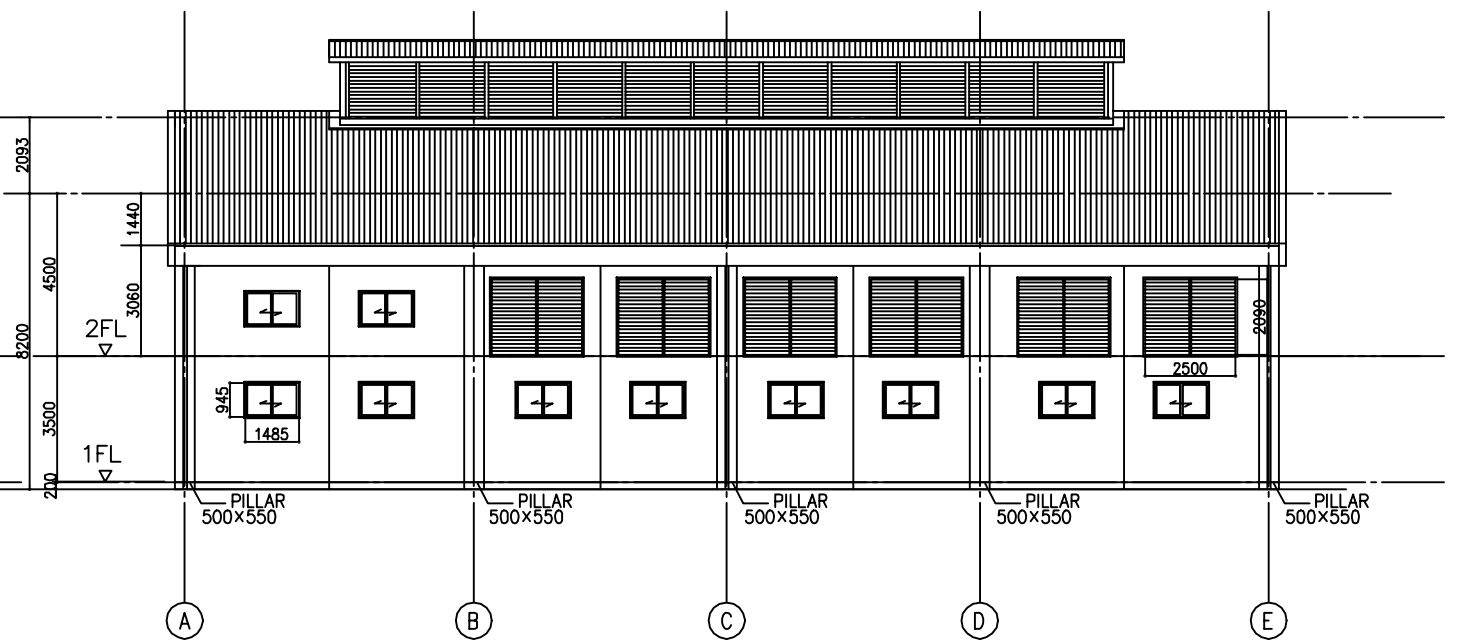
SECTION S=1:100



ELEVATION ( EAST FACE ) S=1:100

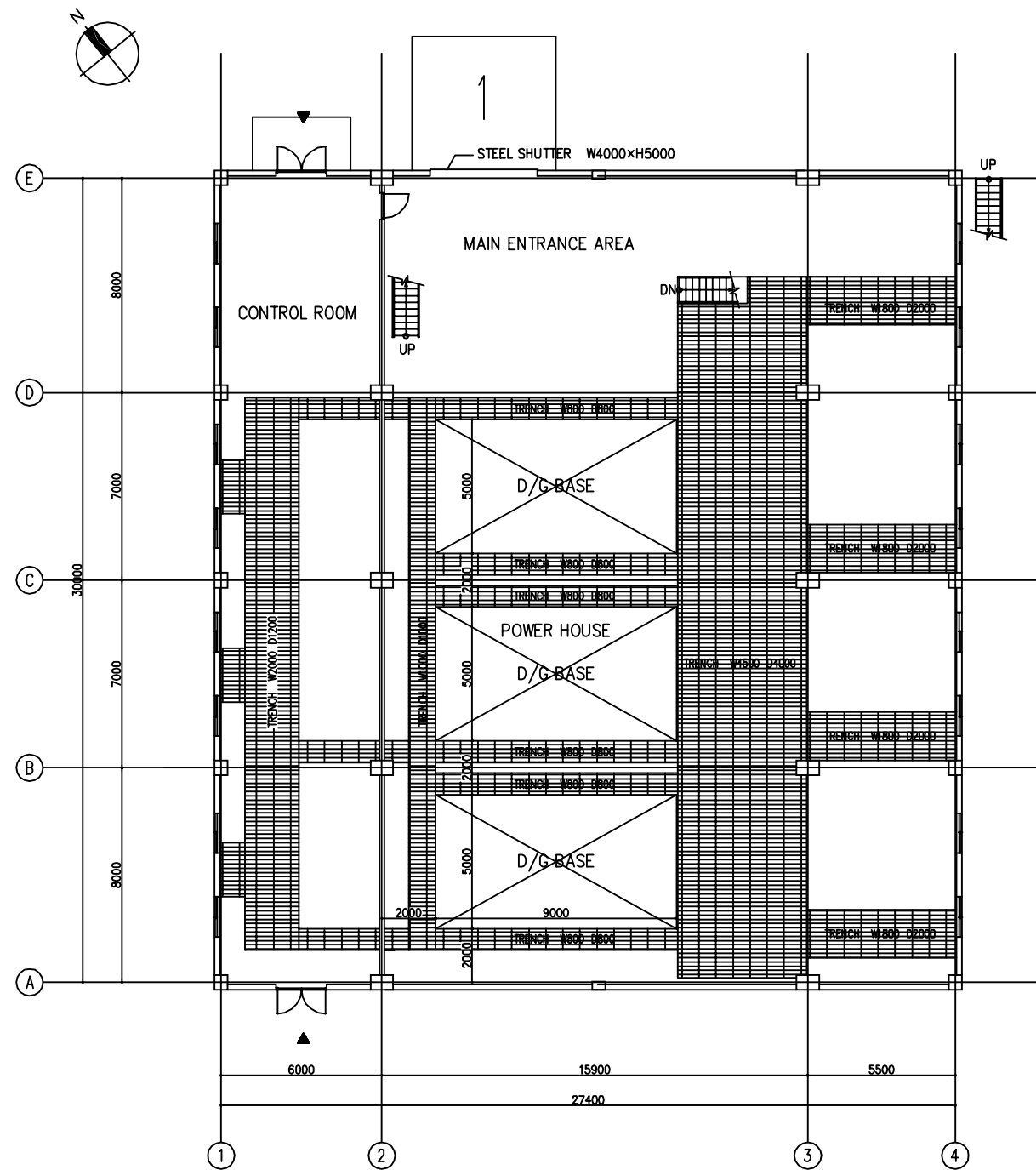


ELEVATION ( NORTH FACE ) S=1:100

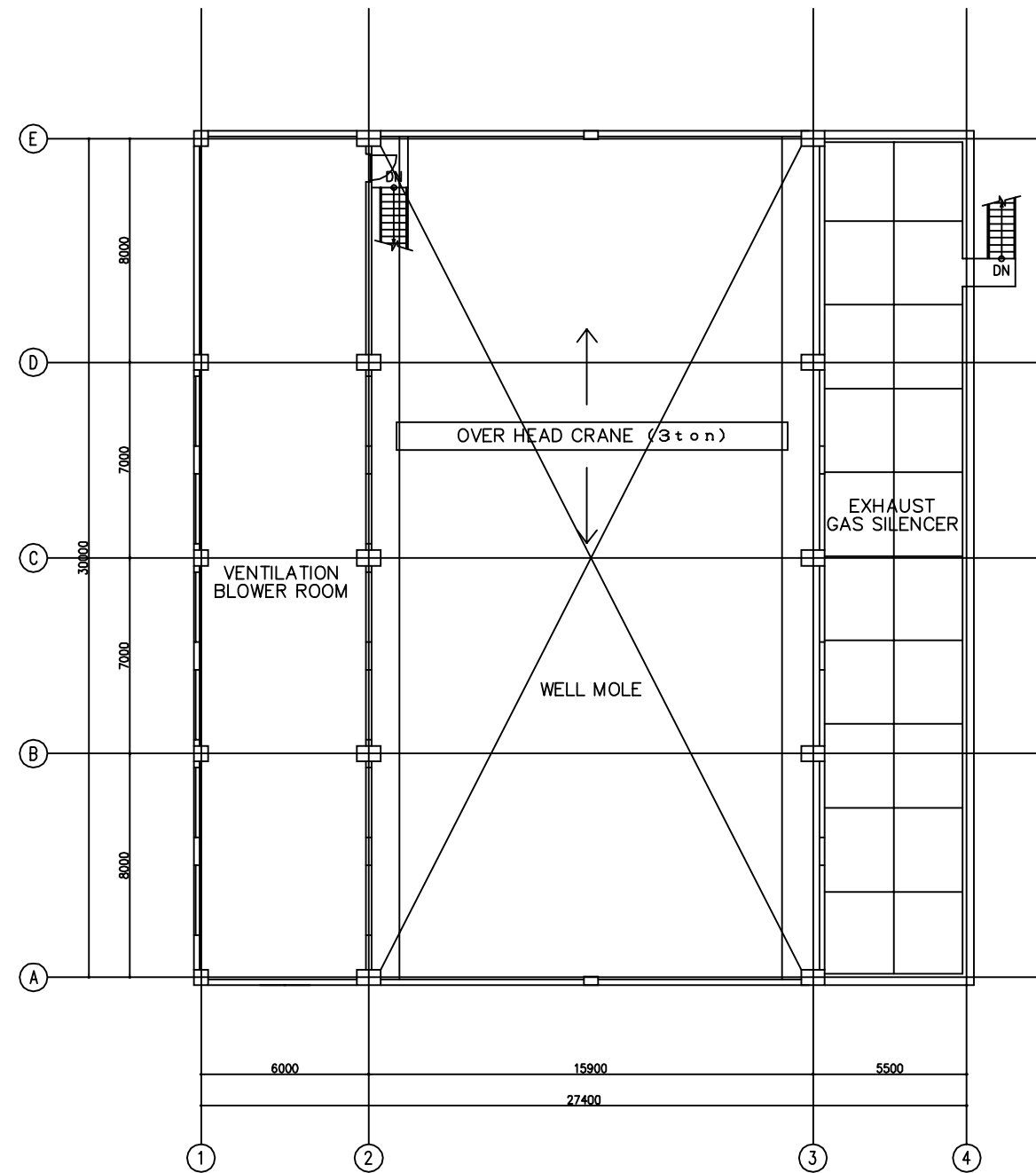


ELEVATION ( WEST FACE ) S=1:100

MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES			
DWN	T.YAMAMOTO	SCALE	TITLE
CHKD	Y.SUNAGAWA		POWER STATION BUILDING PLAN
APPD	Y.SUNAGAWA	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		DWG NO	SRD-016

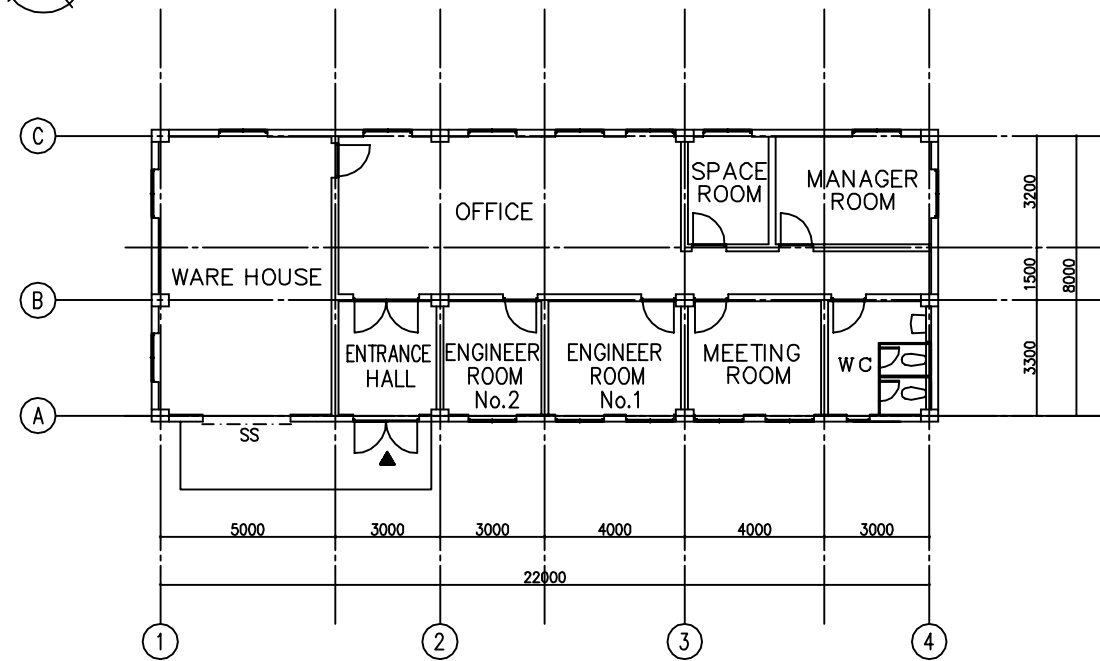
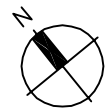


1st FLOOR PLAN

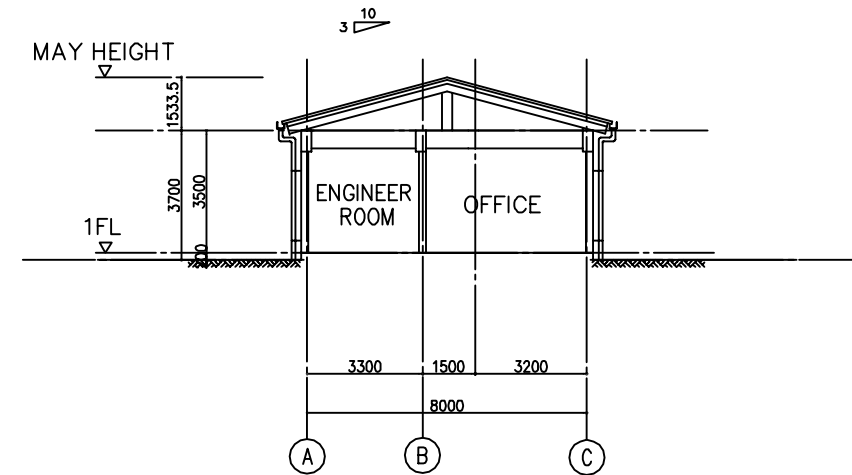


2st FLOOR PLAN

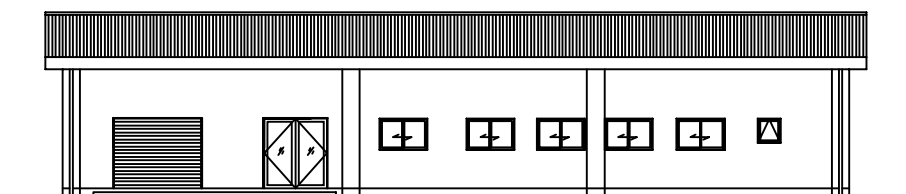
MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES			
DWN	T.YAMAMOTO	SCALE	TITLE POWER STATION BUILDING PLAN
CHKD	Y.SUNAGAWA		
APPD	Y.SUNAGAWA	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN			DWG NO
			SRD-017



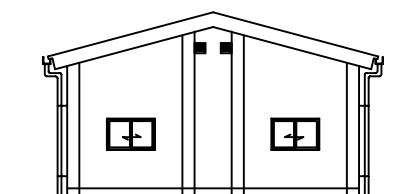
PLAN S=1:100



SECTION S=1:100



ELEVATION ( SOUTH FACE ) S=1:100



ELEVATION ( EAST FACE ) S=1:100

MINISTRY OF INDUSTRY MINES AND ENERGY THE KINGDOM OF CAMBODIA THE PROJECT FOR SIEM REAP GENERATING FACILITIES			
DWN	T.YAMAMOTO	SCALE	TITLE
CHKD	Y.SUNAGAWA		OFFICE PLAN
APPD	Y.SUNAGAWA	DATE	
NIPPON KOEI CO.,LTD. TOKYO, JAPAN		DWG NO	SRD-018