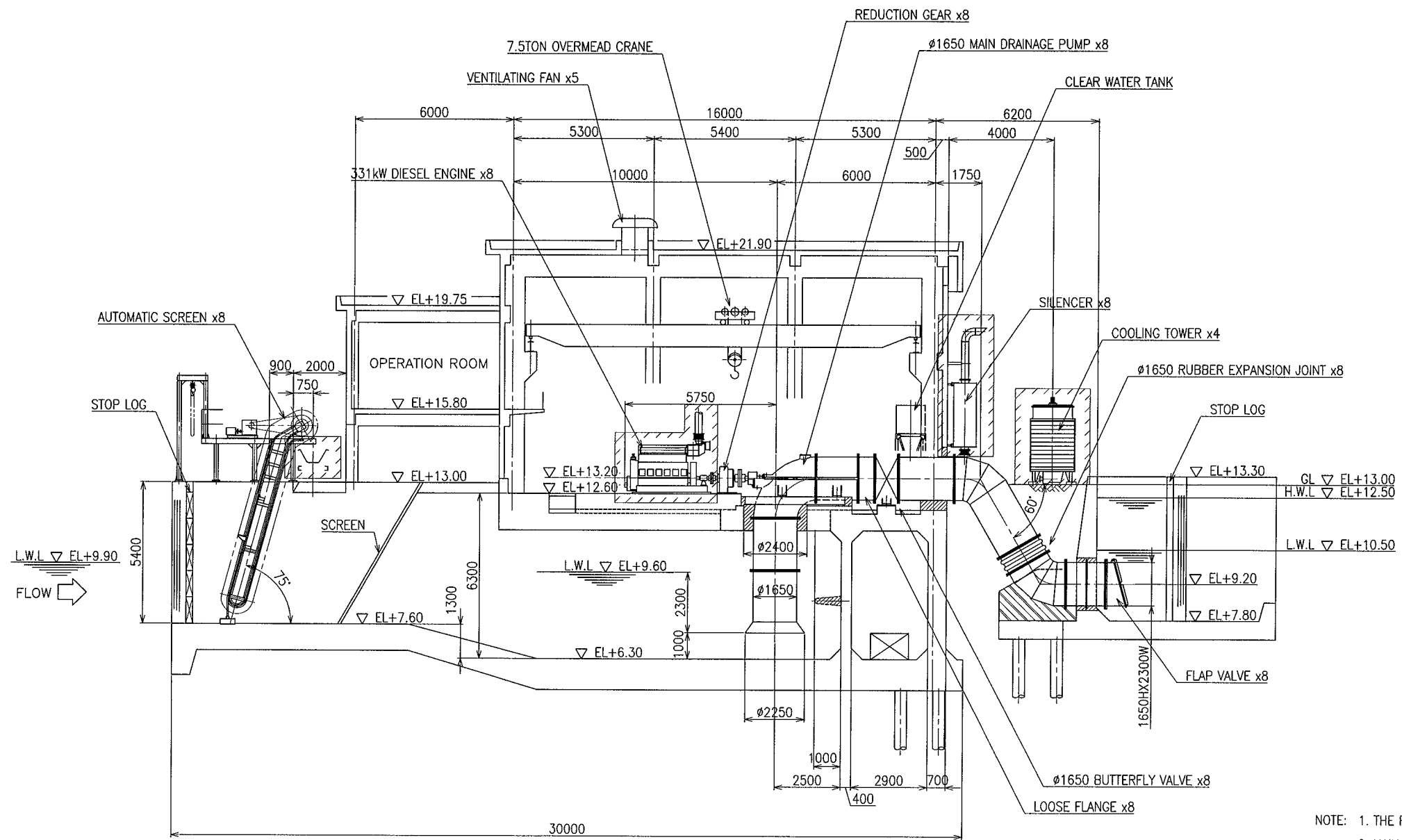


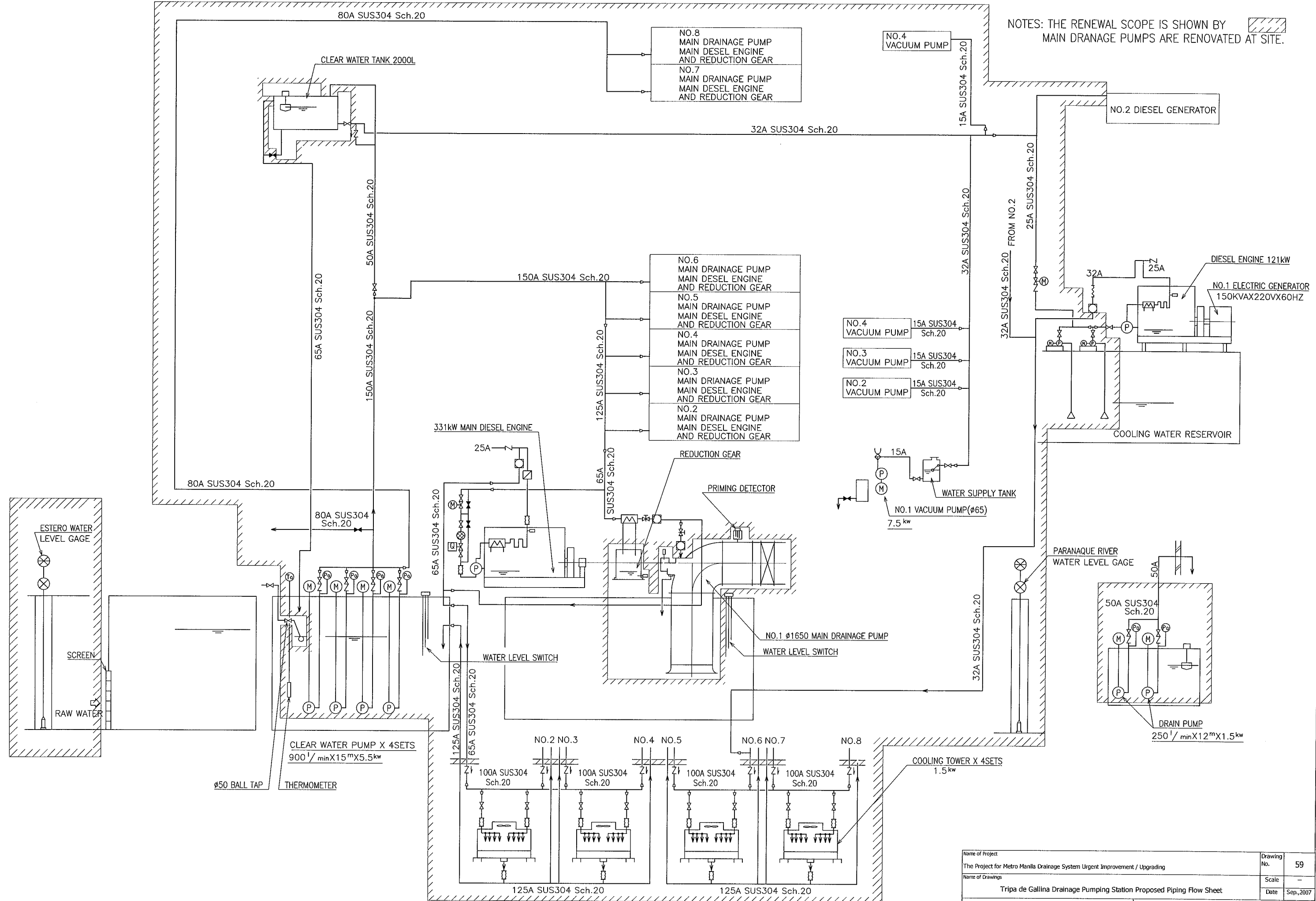
NOTE:  
 1. THE RENEWAL SCOPE IS SHOWN BY .  
 2. MAIN DRAINAGE PUMPS ARE RENEWED AT SITE.  
 3. AUTOMATIC SCREENS ARE RENEWED AT SITE.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	57
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed General Layout	Scale	1/150
		Date	Sep., 2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	



- NOTE: 1. THE RENEWAL SCOPE IS SHOWN BY 2. MAIN DRAINAGE PUMPS ARE RENEWED AT SITE. 3. AUTOMATIC SCREENS ARE RENEWED AT SITE.

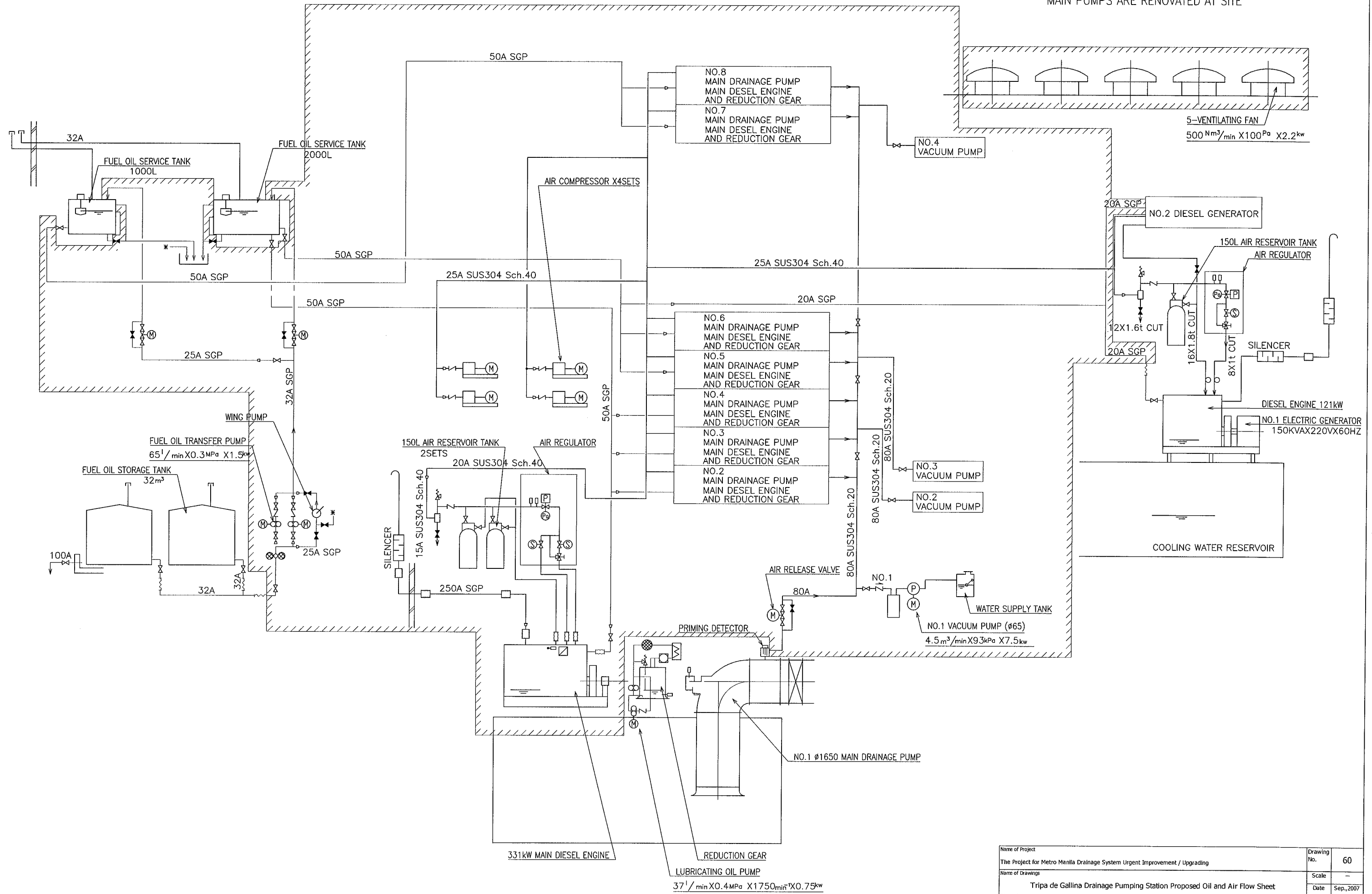
Name of Project		Drawing No.	58
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/100
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Proposed Elevation Plan			
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	

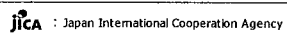
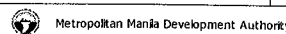


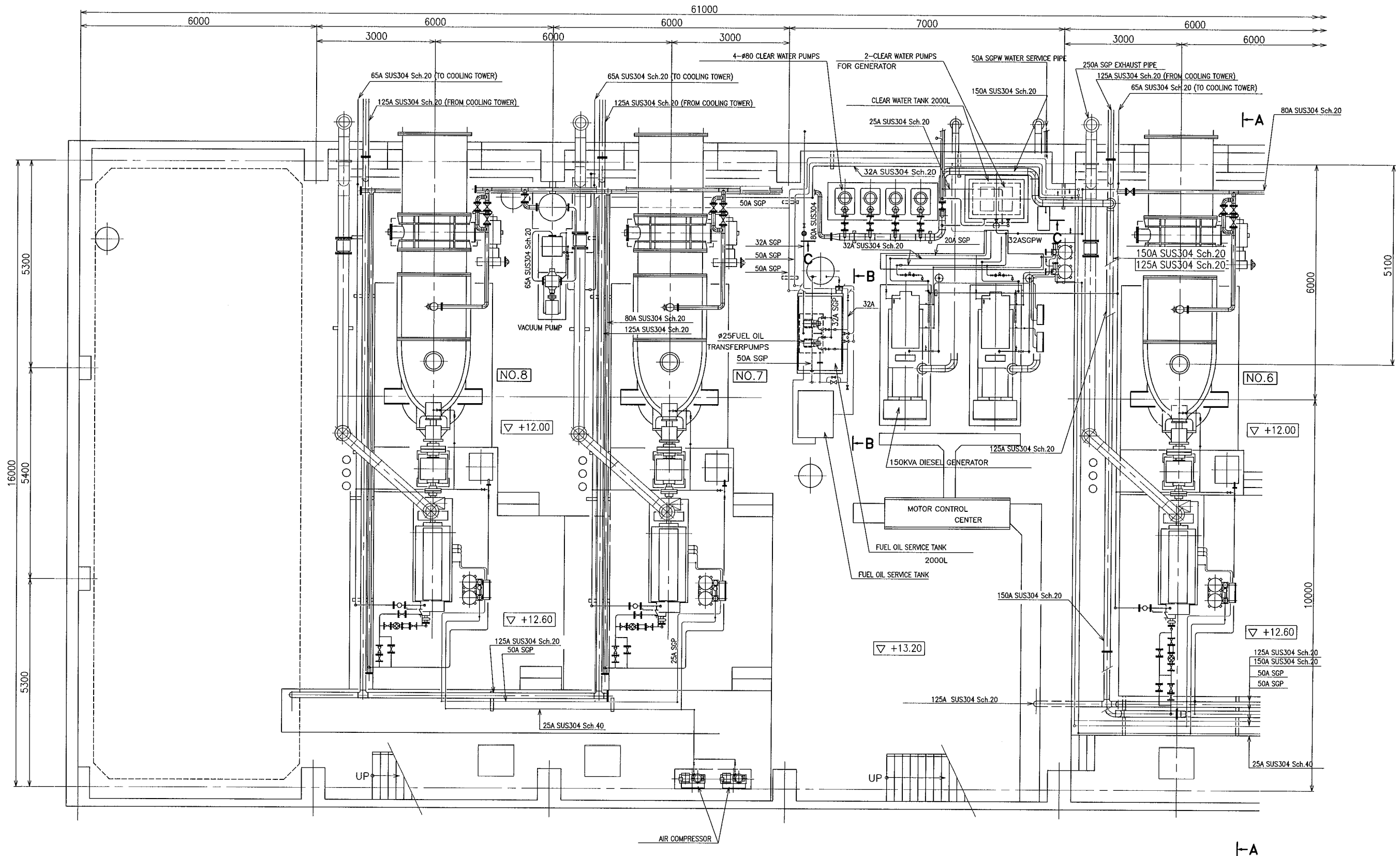
NOTES: THE RENEWAL SCOPE IS SHOWN BY [hatched box] MAIN DRANAGE PUMPS ARE RENOVATED AT SITE.

Name of Project		Drawing No.	59
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	-
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Proposed Piping Flow Sheet			
Japan International Cooperation Agency		Metropolitan Manila Development Authority	

NOTE: THE RENEWAL SCOPE IS SHOWN BY  MAIN PUMPS ARE RENOVATED AT SITE

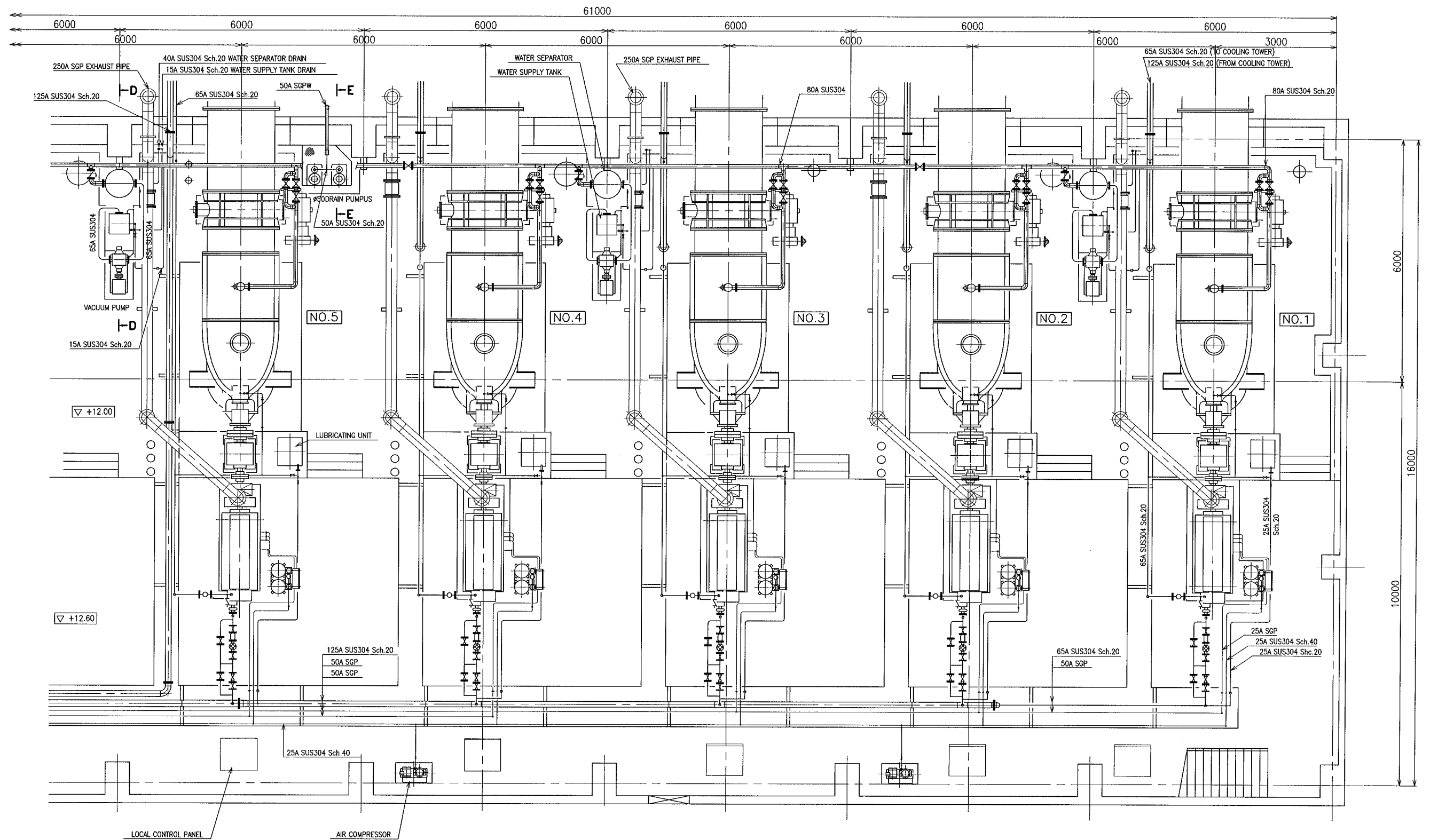


Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	60
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Oil and Air Flow Sheet	Scale	-
		Date	Sep., 2007
 JICA : Japan International Cooperation Agency		 Metropolitan Manila Development Authority	



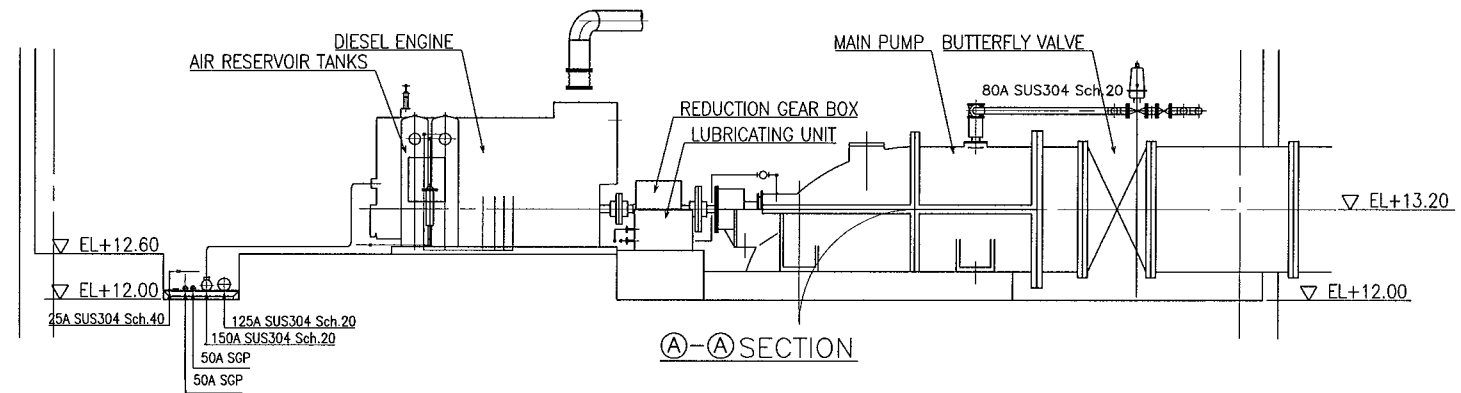
NOTE: REFER TO  
 "RENEWAL FLOW SHEET"  
 "RENEWAL OIL AND AIR LINE FLOW SHEET"  
 "RENEWAL GENERAL ARRANGEMENT"  
 "RENEWAL SMALL PIPINGS"  
 "RENEWAL SMALL PIPINGS ABOUT COOLING WATER"  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF  
 PIPES EQUIPMENTS AND DEVICES.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	61-1
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Small Piping Plan(1/3)	Scale	1/50
		Date	Sep., 2007
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	

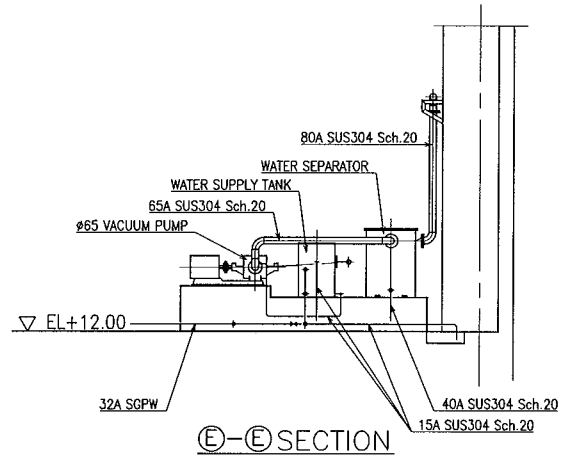


NOTE: REFER TO  
 "RENEWAL FLOW SHEET"  
 "RENEWAL OIL AND AIR LINE FLOW SHEET"  
 "RENEWAL GENERAL ARRANGEMENT"  
 "RENEWAL SMALL PIPES ABOUT COOLING TOWER"  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF  
 PIPES EQUIPMENTS AND DEVICES.

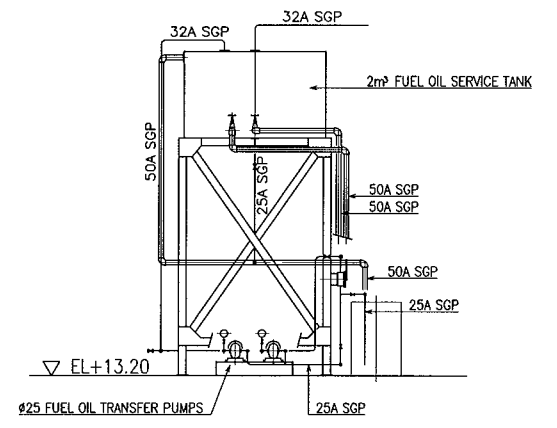
Name of Project	Drawing No.	61-2
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Scale	1/50
Name of Drawings	Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Proposed Small Piping Plan(2/3)		
JICA : Japan International Cooperation Agency		MetroManila Development Authority



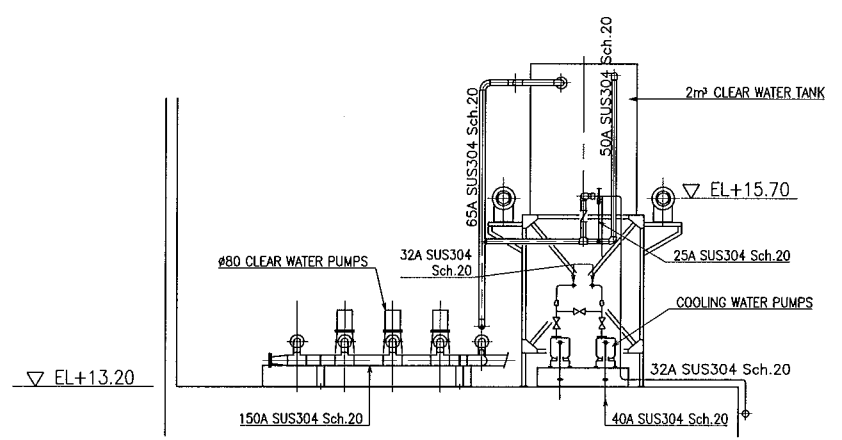
Ⓐ-Ⓐ SECTION



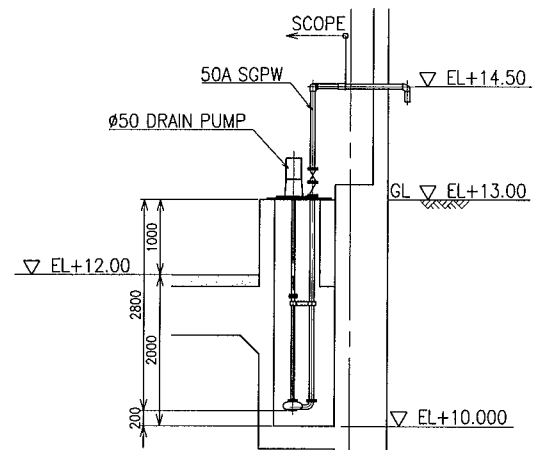
Ⓔ-Ⓔ SECTION



Ⓑ-Ⓑ SECTION



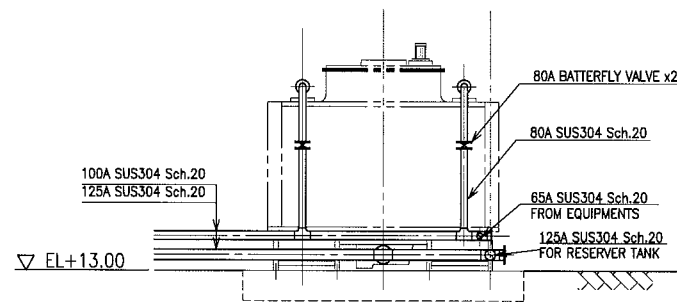
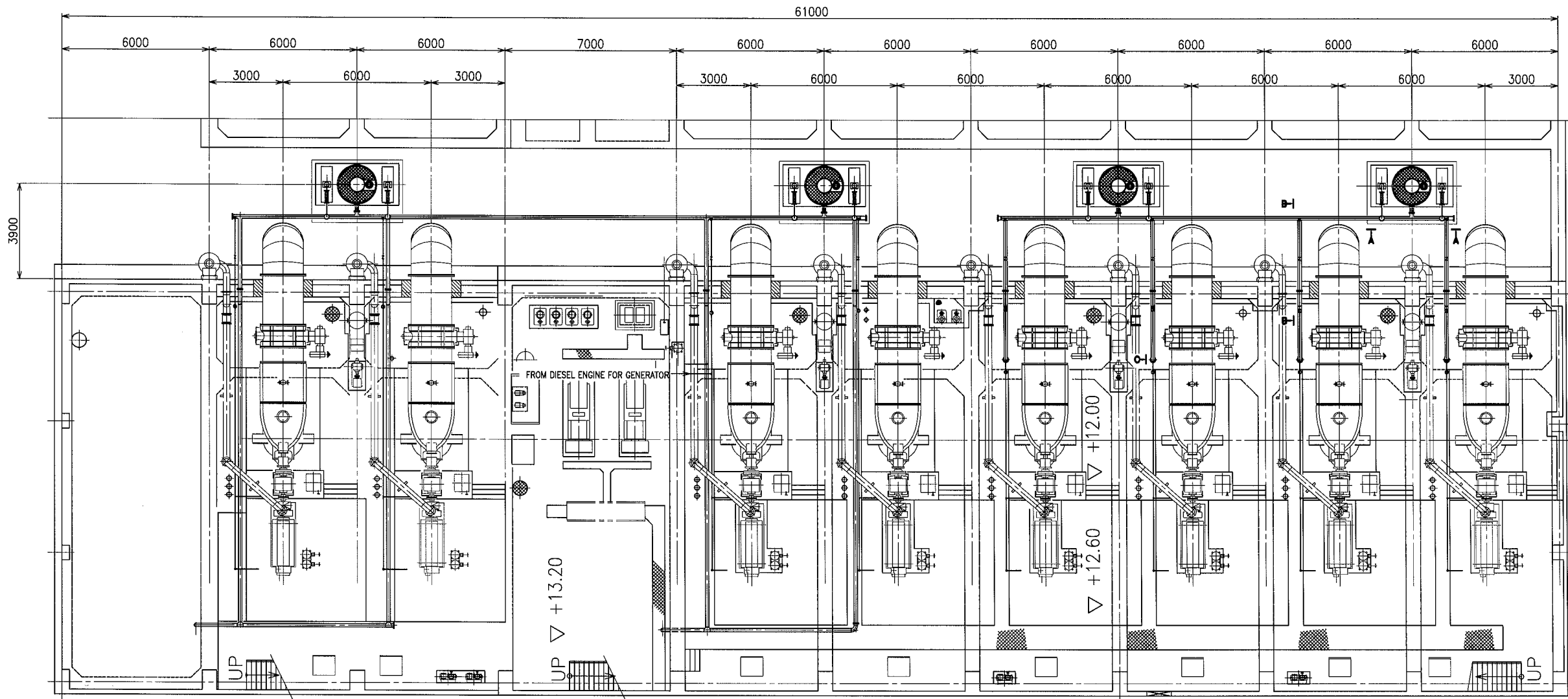
Ⓒ-Ⓒ SECTION



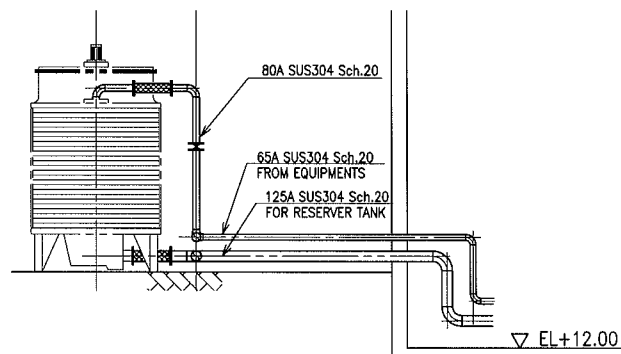
Ⓕ-Ⓕ SECTION

NOTE: REFER TO  
 "RENEWAL FLOW SHEET"  
 "RENEWAL OIL AND AIR LINE FLOW SHEET"  
 "RENEWAL GENERAL ARRANGEMENT"  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF PIPES EQUIPMENTS AND DEVICES.

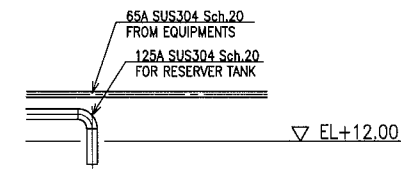
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	61-3
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Small Piping Plan(3/3)	Scale	1/50
		Date	Sep.,2007
: Japan International Cooperation Agency		MetroManila Development Authority	



**A-A SECTION**  
(1:NONE)



**B-B SECTION**  
(1:NONE)

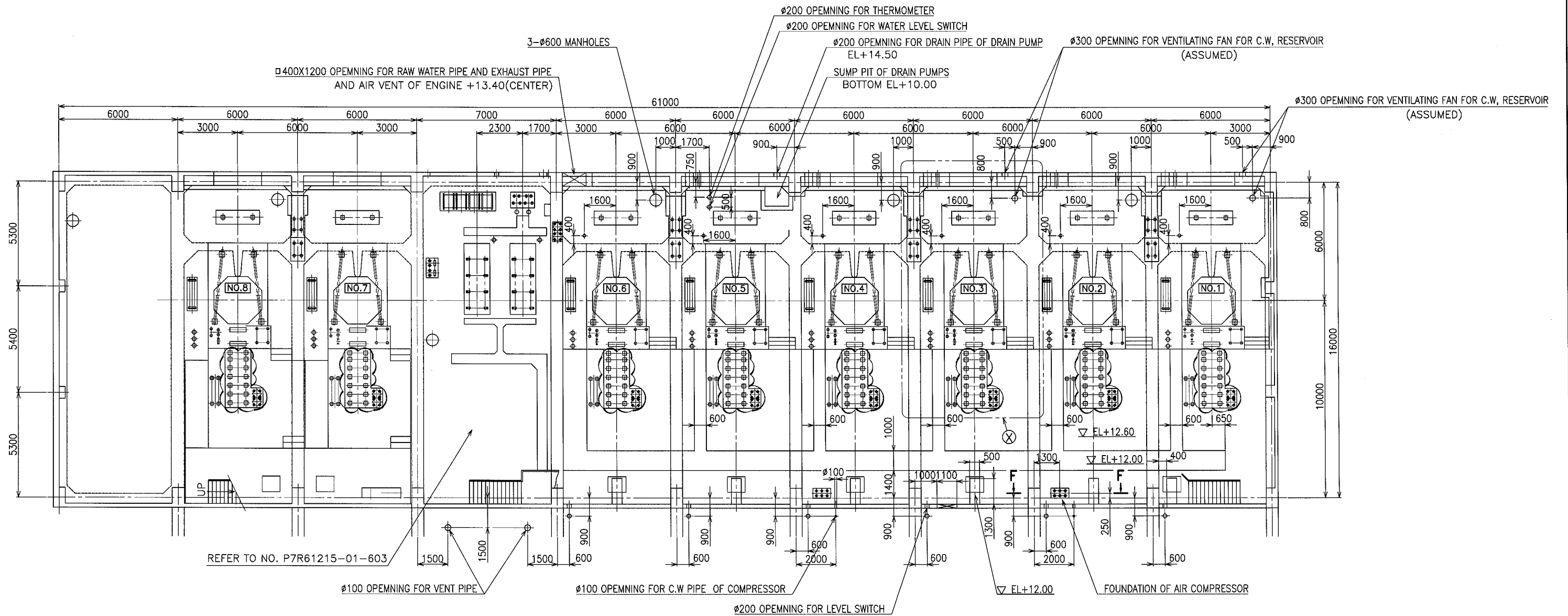


**C-C SECTION**  
(1:NONE)

NOTE: REFER TO  
 "RENEWAL FLOW SHEET"  
 "RENEWAL OIL AND AIR LINE FLOW SHEET"  
 "RENEWAL GENERAL ARRANGEMENT"  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF PIPES EQUIPMENTS AND DEVICES.

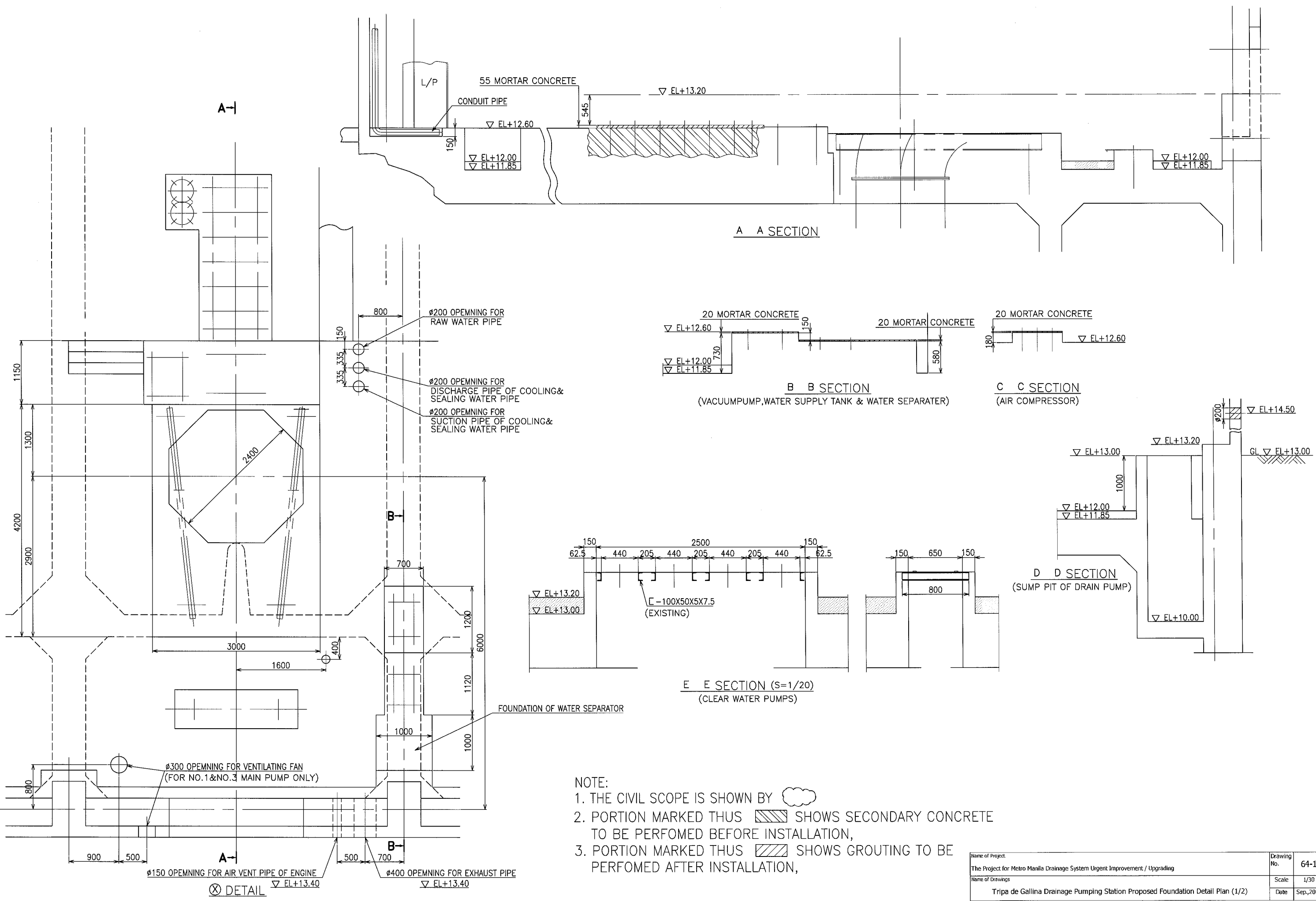
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	62
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Cooling Tower Small Piping Plan	Scale	1/100
		Date	Sep.,2007
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	





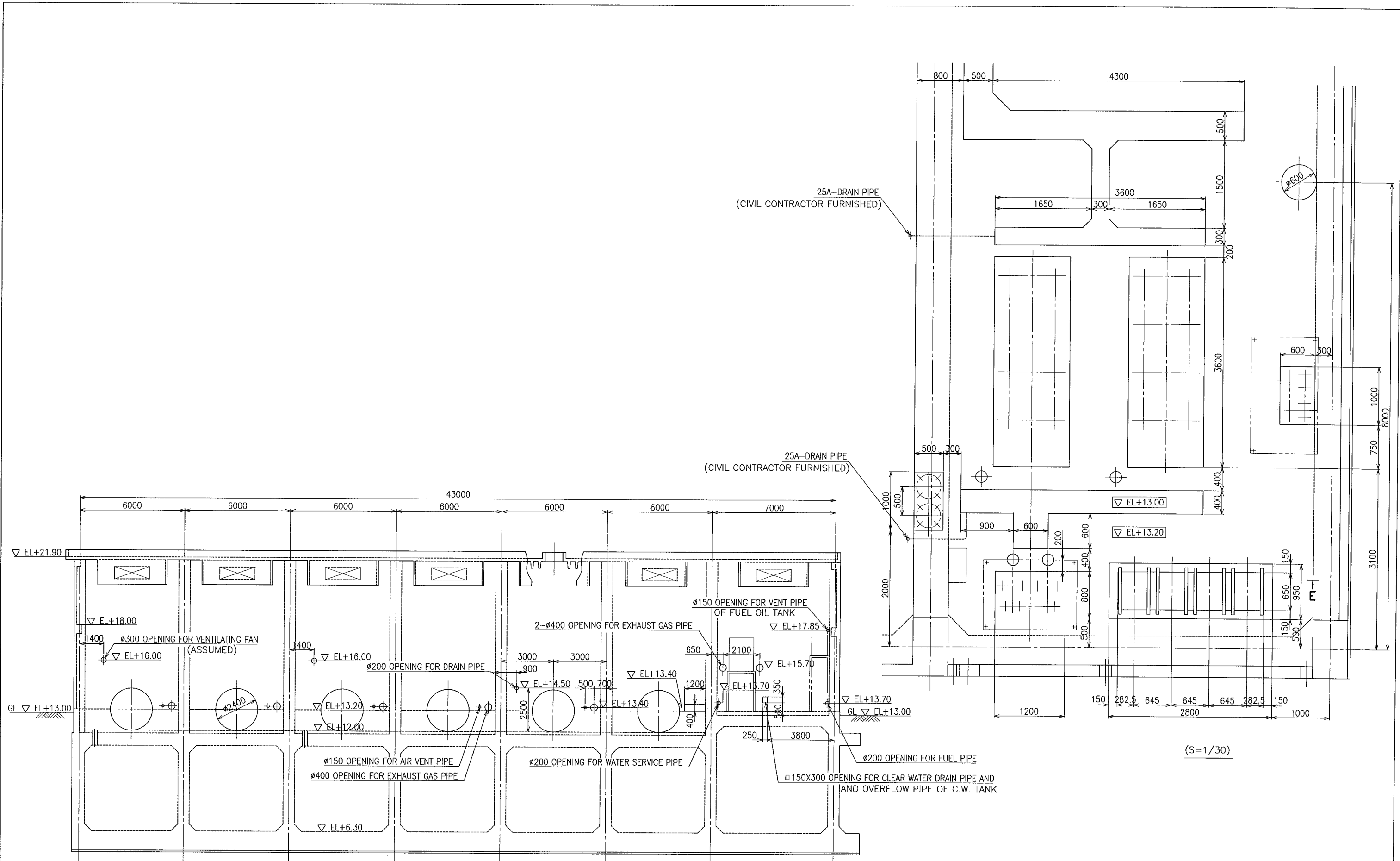
NOTE: THE REMOVAL SCOPE IS SHOWN BY

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	63
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Foundation Plan	Scale	1/100
		Date	Sep, 2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	

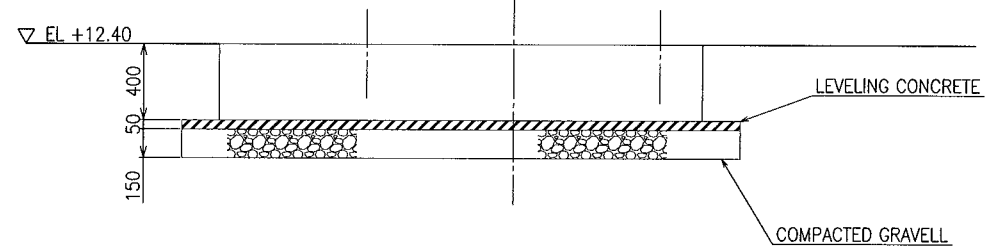
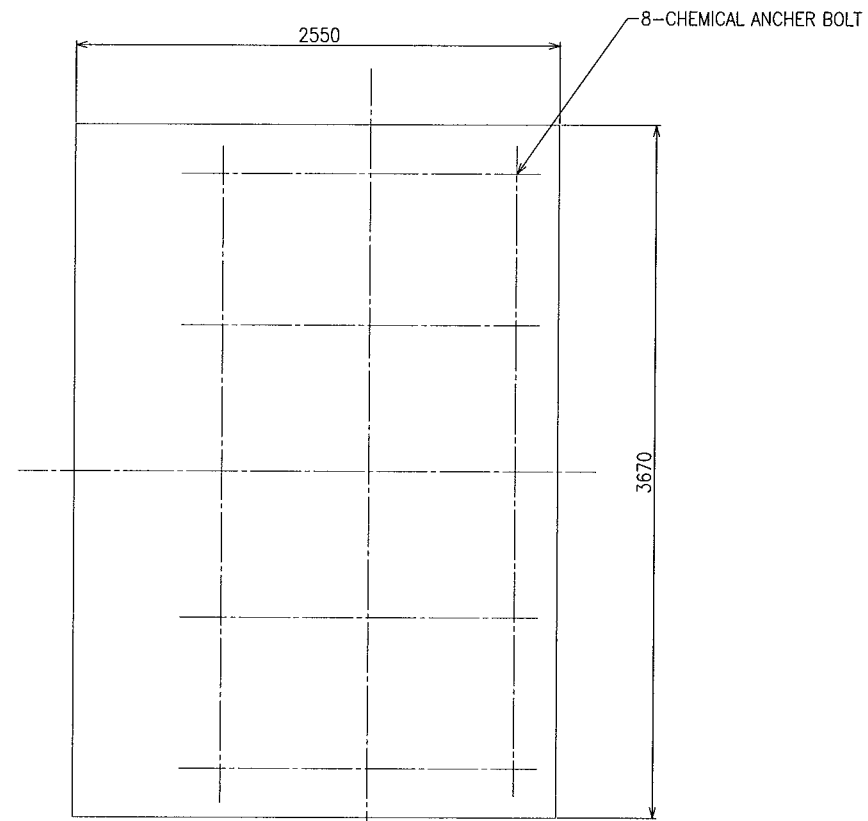
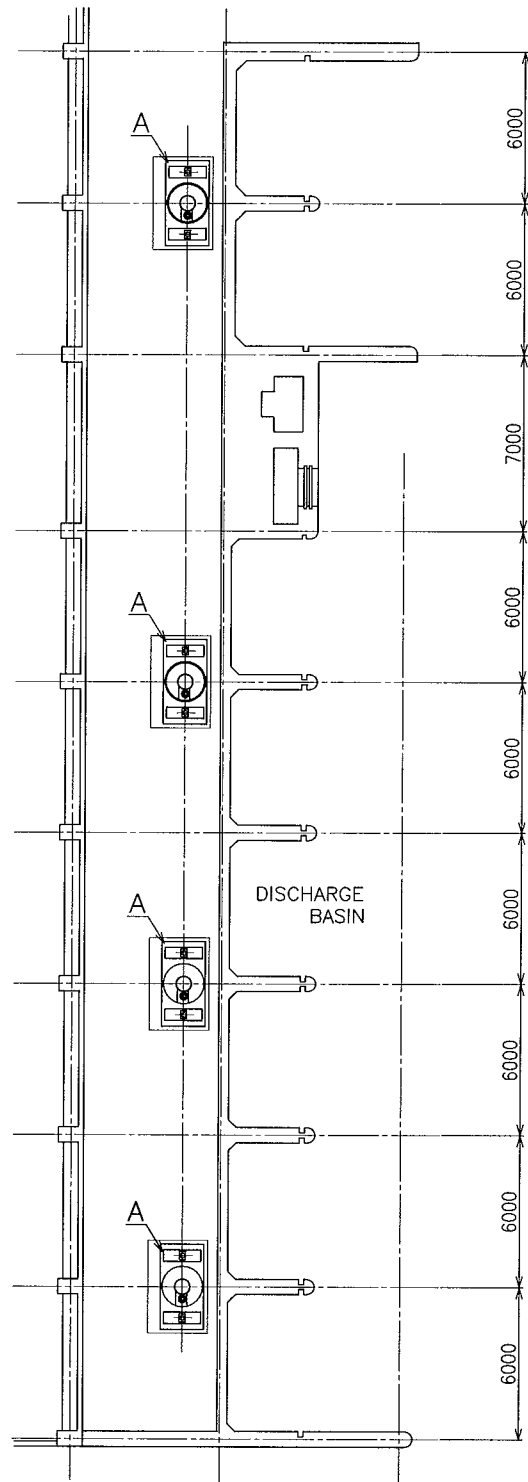


NOTE:  
 1. THE CIVIL SCOPE IS SHOWN BY ☁  
 2. PORTION MARKED THUS SHOWS SECONDARY CONCRETE TO BE PERFORMED BEFORE INSTALLATION,  
 3. PORTION MARKED THUS SHOWS GROUTING TO BE PERFORMED AFTER INSTALLATION,

Name of Project		Drawing No.	
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		64-1	
Name of Drawings		Scale	
Tripa de Gallina Drainage Pumping Station Proposed Foundation Detail Plan (1/2)		1/30	
		Date	
		Sep., 2007	
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	



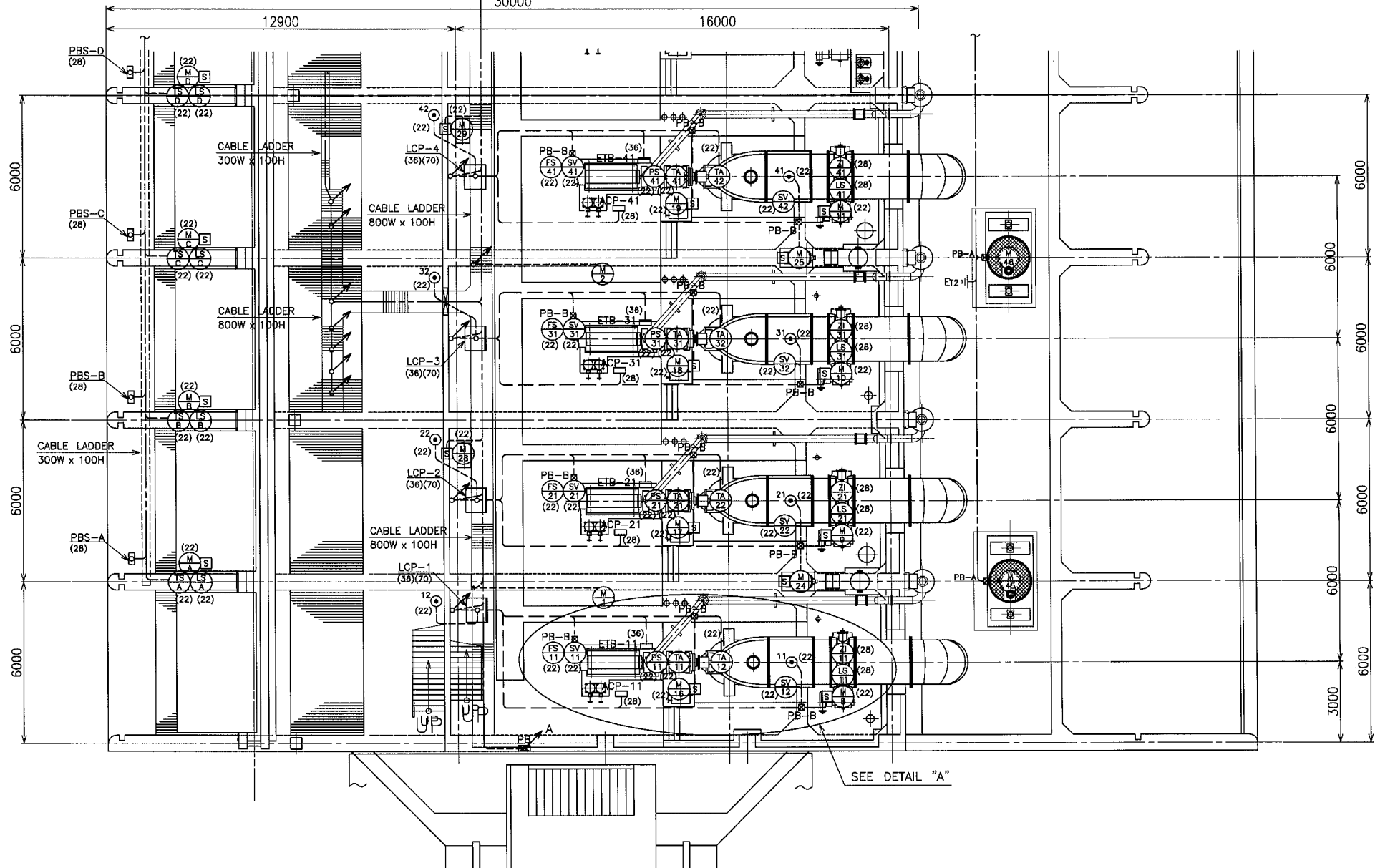
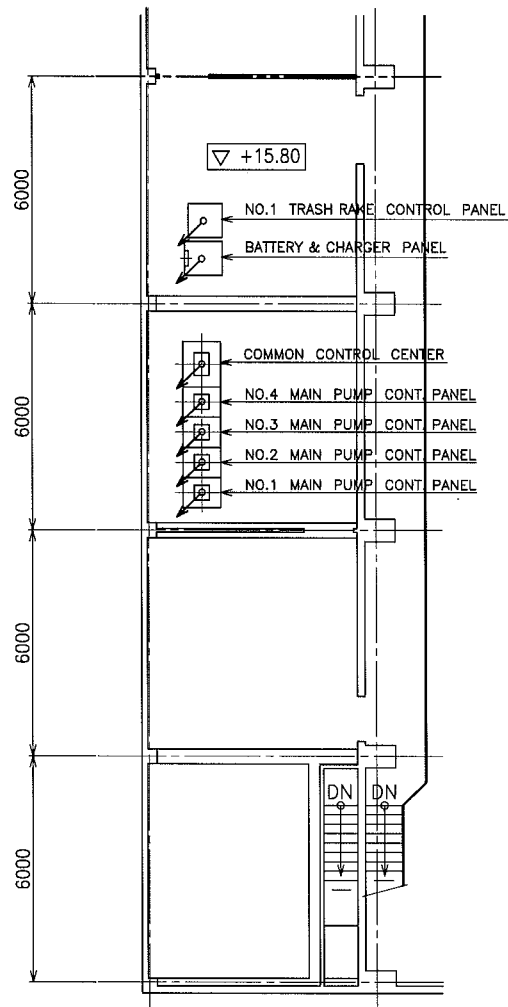
Name of Project		Drawing No.	64-2
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/100
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Proposed Foundation Detail Plan (2/2)			
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	



DETAIL A  
(S=1:20)

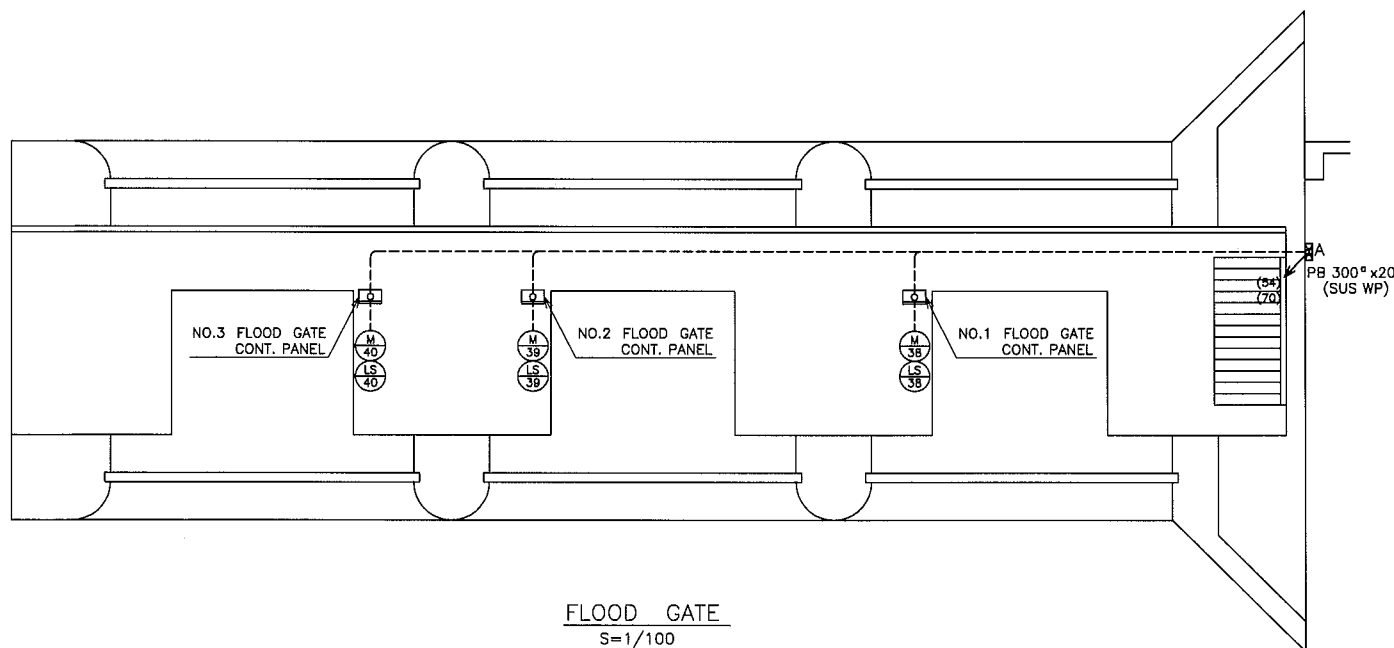
Name of Project	Drawing No.	65
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Scale	1/150
Name of Drawings	Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Proposed Cooling Tower Foundation Plan		
jica : Japan International Cooperation Agency		Metropolitan Manila Development Authority

SEE WIRING LAYOUT (2/2)

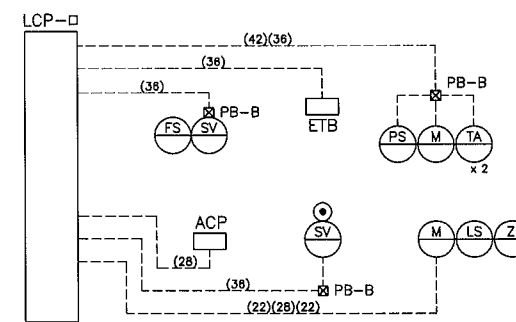


PUMPING FLOOR PLAN (1/2)

S=1/100



FLOOD GATE  
S=1/100

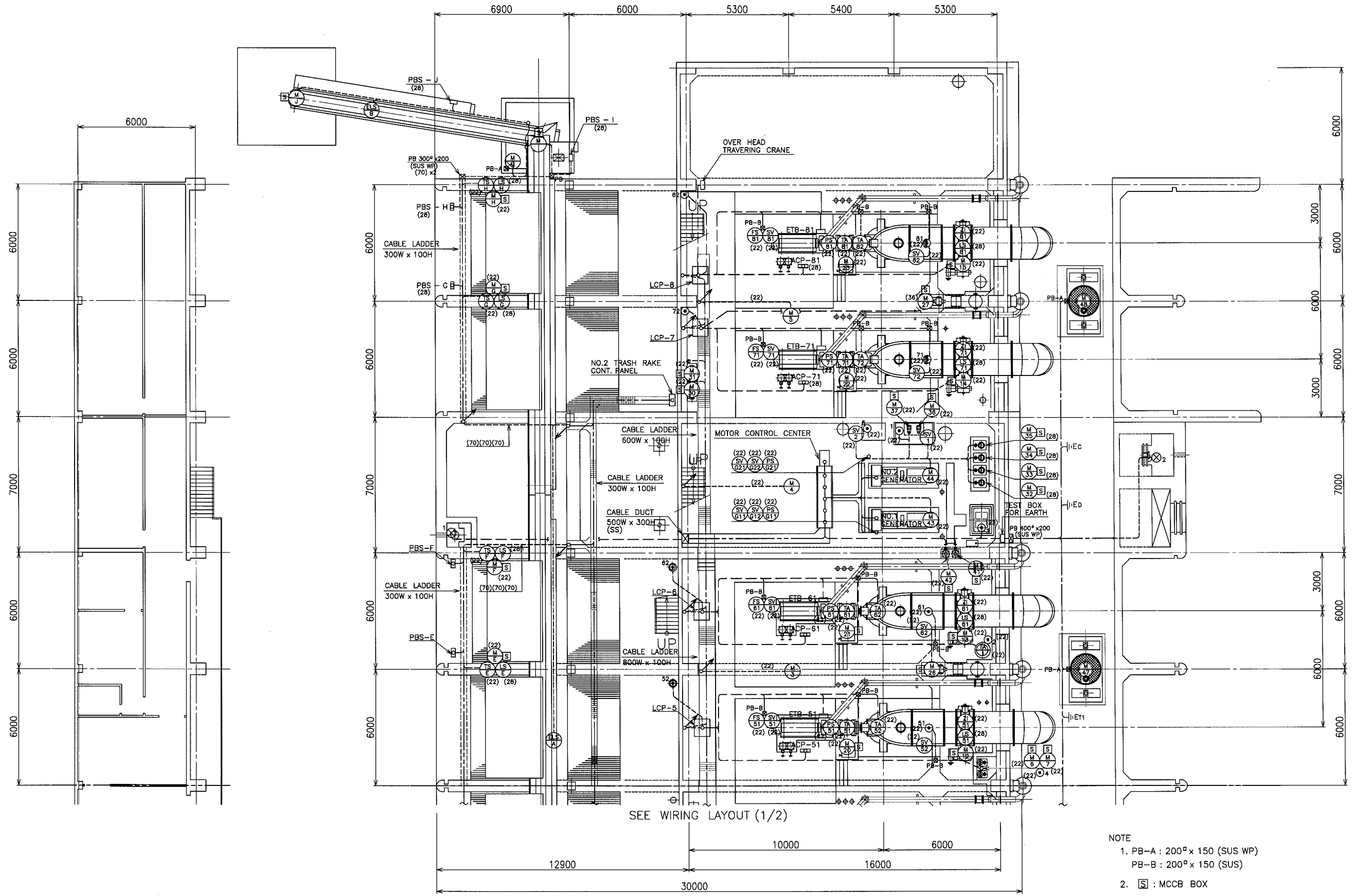


DETAIL "A"

NOTE

1. PB-A : 200<sup>0</sup> x 150 (SUS WP)  
PB-B : 200<sup>0</sup> x 150 (SUS)
2. □ : MCCB BOX
3. CABLE LADDER : ALUMINUM.
3. CABLE LADDER & DUCT SUPPORT : SS HOT DIPPED. GALVA.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	66-1
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Wiring Plan(1/2)	Scale	1/100
		Date	Sep.,2007
JICA : Japan International Cooperation Agency	Metropolitan Manila Development Authority		



PUMPING FLOOR PLAN (2/2)  
S=1/100

- NOTE
1. PB-A : 200<sup>Q</sup> x 150 (SUS WP)  
PB-B : 200<sup>Q</sup> x 150 (SUS)
  2. [Symbol] : MCCB BOX
  3. CABLE LADDER : ALUMINUM.
  3. CABLE LADDER & DUCT SUPPORT : SS HOT DIPPED GALVA.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	66-2
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Wiring Plan(2/2)	Scale	1/100
		Date	Sep, 2007
jica : Japan International Cooperation Agency		Metropolitan Manila Development Authority	



SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
(11)	NO.1 DISCHARGE VALVE (LS)	NO.1 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(12)	(Z)	NO.1 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(13)	NO.2 DISCHARGE VALVE (LS)	NO.1 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(14)	(Z)	NO.2 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(15)	NO.3 DISCHARGE VALVE (LS)	NO.2 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(16)	(Z)	NO.3 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(17)	NO.4 DISCHARGE VALVE (LS)	NO.2 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(18)	(Z)	NO.4 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(19)	NO.5 DISCHARGE VALVE (LS)	NO.3 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(20)	(Z)	NO.5 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(21)	NO.6 DISCHARGE VALVE (LS)	NO.3 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(22)	(Z)	NO.6 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(23)	NO.7 DISCHARGE VALVE (LS)	NO.4 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(24)	(Z)	NO.7 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
(25)	NO.8 DISCHARGE VALVE (LS)	NO.4 MAIN PUMP CONT. PANEL	CVV 2 - 10C	(28)		
(26)	(Z)	NO.8 LOCAL CONT. PANEL	CVV 2 - 5C	(22)		
LCP-1	COMMON CONT. PANEL	NO.1 LOCAL CONT. PANEL	CVV 2 - 6C			
	NO.1 MAIN PUMP CONT. PANEL		CVV 2 - 15C x2			
ETB-11	NO.1 ENGINE T. B		CVV 2 - 15C	(36)		
ACP-11	NO.1 AIR CONT. PANEL		CVV 2 - 10C	(28)		
(1A)	NO.1 G. B LUB OIL TEMP.		CVV 2 - 2C	(22)		
(1B)	NO.1 PUMP BEARING TEMP.		CVV 2 - 3C			
(11)	NO.1 PRIMING DETECTOR					
(12)	NO.1 SUCTION PIT LEVEL					
(13)	NO.1 CLEAR WATER MV.		CVV 2 - 6C			
(14)	NO.1 COOLING W. FLOW SWITCH		CVV 2 - 2C			
(15)	NO.1 G. B LUB OIL PS.		CVV 2 - 3C			
(16)	NO.1 WATER MV.		CVV 2 - 6C			
LCP-2	COMMON CONT. PANEL	NO.2 LOCAL CONT. PANEL	CVV 2 - 6C			
	NO.1 MAIN PUMP CONT. PANEL		CVV 2 - 15C x2			
ETB-21	NO.2 ENGINE T. B		CVV 2 - 15C	(36)		
ACP-21	NO.2 AIR CONT. PANEL		CVV 2 - 10C	(28)		
(2A)	NO.2 G. B LUB OIL TEMP.		CVV 2 - 2C	(22)		
(2B)	NO.2 PUMP BEARING TEMP.		CVV 2 - 3C			
(21)	NO.2 PRIMING DETECTOR					
(22)	NO.2 SUCTION PIT LEVEL					
(23)	NO.2 CLEAR WATER MV.		CVV 2 - 6C			
(24)	NO.2 COOLING W. FLOW SWITCH		CVV 2 - 2C			
(25)	NO.2 G. B LUB OIL PS.		CVV 2 - 3C			
(26)	NO.2 WATER MV.		CVV 2 - 6C			

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
LCP-3	COMMON CONT. PANEL	NO.3 LOCAL CONT. PANEL	CVV 2 - 6C			
	NO.2 MAIN PUMP CONT. PANEL		CVV 2 - 15C x2			
ETB-31	NO.3 ENGINE T. B		CVV 2 - 15C	(36)		
ACP-31	NO.3 AIR CONT. PANEL		CVV 2 - 10C	(28)		
(3A)	NO.3 G. B LUB OIL TEMP.		CVV 2 - 2C	(22)		
(3B)	NO.3 PUMP BEARING TEMP.		CVV 2 - 3C			
(31)	NO.3 PRIMING DETECTOR					
(32)	NO.3 SUCTION PIT LEVEL					
(33)	NO.3 CLEAR WATER MV.		CVV 2 - 6C			
(34)	NO.3 COOLING W. FLOW SWITCH		CVV 2 - 2C			
(35)	NO.3 G. B LUB OIL PS.		CVV 2 - 3C			
(36)	NO.3 WATER MV.		CVV 2 - 6C			
LCP-4	COMMON CONT. PANEL	NO.4 LOCAL CONT. PANEL	CVV 2 - 6C			
	NO.2 MAIN PUMP CONT. PANEL		CVV 2 - 15C x2			
ETB-41	NO.4 ENGINE T. B		CVV 2 - 15C	(36)		
ACP-41	NO.4 AIR CONT. PANEL		CVV 2 - 10C	(28)		
(4A)	NO.4 G. B LUB OIL TEMP.		CVV 2 - 2C	(22)		
(4B)	NO.4 PUMP BEARING TEMP.		CVV 2 - 3C			
(41)	NO.4 PRIMING DETECTOR					
(42)	NO.4 SUCTION PIT LEVEL					
(43)	NO.4 CLEAR WATER MV.		CVV 2 - 6C			
(44)	NO.4 COOLING W. FLOW SWITCH		CVV 2 - 2C			
(45)	NO.4 G. B LUB OIL PS.		CVV 2 - 3C			
(46)	NO.4 WATER MV.		CVV 2 - 6C			
LCP-5	COMMON CONT. PANEL	NO.5 LOCAL CONT. PANEL	CVV 2 - 6C			
	NO.3 MAIN PUMP CONT. PANEL		CVV 2 - 15C x2			
ETB-51	NO.5 ENGINE T. B		CVV 2 - 15C	(36)		
ACP-51	NO.5 AIR CONT. PANEL		CVV 2 - 10C	(28)		
(5A)	NO.5 G. B LUB OIL TEMP.		CVV 2 - 2C	(22)		
(5B)	NO.5 PUMP BEARING TEMP.		CVV 2 - 3C			
(51)	NO.5 PRIMING DETECTOR					
(52)	NO.5 SUCTION PIT LEVEL					
(53)	NO.5 CLEAR WATER MV.		CVV 2 - 6C			
(54)	NO.5 COOLING W. FLOW SWITCH		CVV 2 - 2C			
(55)	NO.5 G. B LUB OIL PS.		CVV 2 - 3C			
(56)	NO.5 WATER MV.		CVV 2 - 6C			

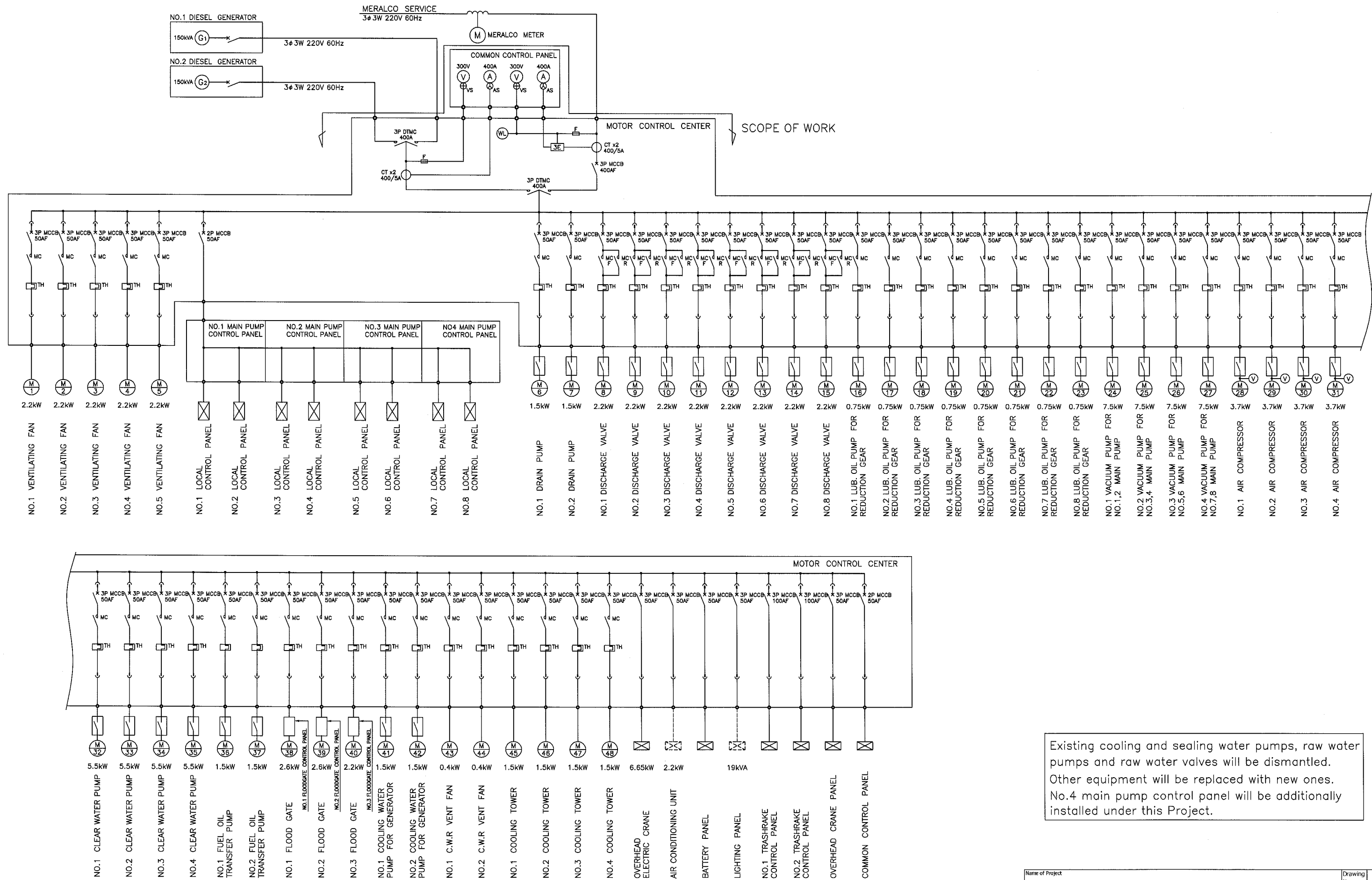


SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
LCP-6	COMMON CONT. PANEL	NO.6 LOCAL CONT. PANEL	CVV 2 <sup>0</sup> - 6C			
	NO.3 MAIN PUMP CONT. PANEL		CVV 2 <sup>0</sup> - 15C x2			
ETB-61	NO.6 ENGINE T. B		CVV 2 <sup>0</sup> - 15C	(36)		
ACP-61	NO.6 AIR CONT. PANEL		CVV 2 <sup>0</sup> - 10C	(28)		
TA 61	NO.6 G. B LUB OIL TEMP.		CVV 2 <sup>0</sup> - 2C	(22)		
TA 62	NO.6 PUMP BEARING TEMP.		CVV 2 <sup>0</sup> - 3C			
61	NO.6 PRIMING DETECTOR					
62	NO.6 SUCTION PIT LEVEL					
SV 61	NO.6 CLEAR WATER MV.		CVV 2 <sup>0</sup> - 6C			
FS 61	NO.6 COOLING W. FLOW SWITCH		CVV 2 <sup>0</sup> - 2C			
PS 61	NO.6 G. B LUB OIL PS.		CVV 2 <sup>0</sup> - 3C			
SV 62	NO.6 WATER MV.		CVV 2 <sup>0</sup> - 6C			
LCP-7	COMMON CONT. PANEL	NO.7 LOCAL CONT. PANEL	CVV 2 <sup>0</sup> - 6C			
	NO.4 MAIN PUMP CONT. PANEL		CVV 2 <sup>0</sup> - 15C x2			
ETB-71	NO.7 ENGINE T. B		CVV 2 <sup>0</sup> - 15C	(36)		
ACP-71	NO.7 AIR CONT. PANEL		CVV 2 <sup>0</sup> - 10C	(28)		
TA 71	NO.7 G. B LUB OIL TEMP.		CVV 2 <sup>0</sup> - 2C	(22)		
TA 72	NO.7 PUMP BEARING TEMP.		CVV 2 <sup>0</sup> - 3C			
71	NO.7 PRIMING DETECTOR					
72	NO.7 SUCTION PIT LEVEL					
SV 71	NO.7 CLEAR WATER SV.		CVV 2 <sup>0</sup> - 6C			
FS 71	NO.7 COOLING W. FLOW SWITCH		CVV 2 <sup>0</sup> - 2C			
PS 71	NO.7 G. B LUB OIL PS.		CVV 2 <sup>0</sup> - 3C			
SV 72	NO.7 WATER SV.		CVV 2 <sup>0</sup> - 6C			
LCP-8	COMMON CONT. PANEL	NO.8 LOCAL CONT. PANEL	CVV 2 <sup>0</sup> - 6C			
	NO.4 MAIN PUMP CONT. PANEL		CVV 2 <sup>0</sup> - 15C x2			
ETB-81	NO.7 ENGINE T. B		CVV 2 <sup>0</sup> - 15C	(36)		
ACP-81	NO.8 AIR CONT. PANEL		CVV 2 <sup>0</sup> - 10C	(28)		
TA 81	NO.8 G. B LUB OIL TEMP.		CVV 2 <sup>0</sup> - 2C	(22)		
TA 82	NO.8 PUMP BEARING TEMP.		CVV 2 <sup>0</sup> - 3C			
81	NO.8 PRIMING DETECTOR					
82	NO.8 SUCTION PIT LEVEL					
SV 81	NO.8 CLEAR WATER SV.		CVV 2 <sup>0</sup> - 6C			
FS 81	NO.8 COOLING W. FLOW SWITCH		CVV 2 <sup>0</sup> - 2C			
PS 81	NO.8 G. B LUB OIL PS.		CVV 2 <sup>0</sup> - 3C			
SV 82	NO.8 WATER SV.		CVV 2 <sup>0</sup> - 6C			

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
SV 61	NO.1 GENERATOR STOP SV	NO.1 GENERATOR PANEL	CVV 2 <sup>0</sup> - 2C	(22)		
SV 61	NO.1 GENERATOR C. W. SV					
SV 62	NO.2 GENERATOR STOP SV	NO.2 GENERATOR PANEL				
SV 62	NO.2 GENERATOR C. W. SV					
PS 61	NO.1 GENERATOR A. PS	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 4C	(22)		
PS 62	NO.2 GENERATOR A. PS	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 4C	(22)		
SV 61	FUEL OIL TRANSFER SV	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 6C	(22)		
61	FUEL OIL SERVICE T. LEVEL	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 5C	(22)		
TA 61	C. W. PIT TEMP. SWITCH	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 2C	(22)		
62	C. W. PIT LEVEL		CVV 2 <sup>0</sup> - 3C			
63	C. W. TANK LEVEL		CVV 2 <sup>0</sup> - 5C			
64	DRAIN PIT LEVEL	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 5C	(22)		
61	SUCTION PIT LEVEL	COMMON CONT. PANEL	CVVS 2 <sup>0</sup> - 2C	(22)		
62	DISCHARGE PIT LEVEL	COMMON CONT. PANEL	CVVS 2 <sup>0</sup> - 2C	(22)		
SV 62	FUEL OIL TRANSFER MV.	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 6C	(22)		
65	FUEL OIL SERVICE T. LEVEL	COMMON CONT. PANEL	CVV 2 <sup>0</sup> - 5C	(22)		

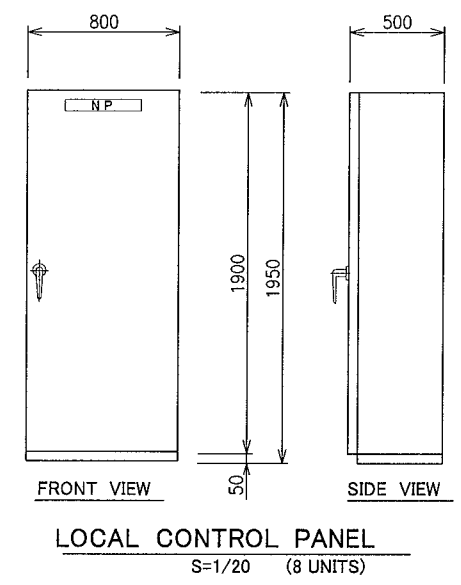
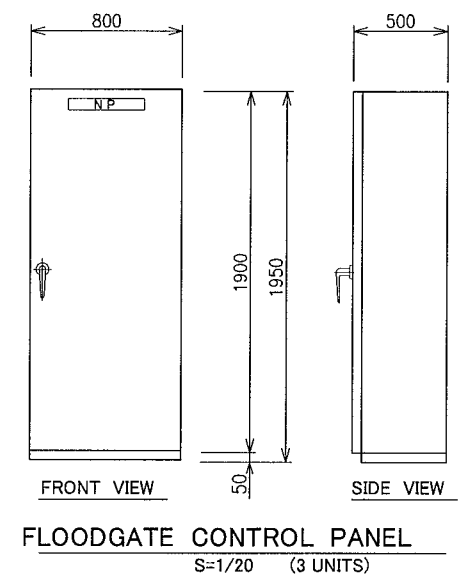
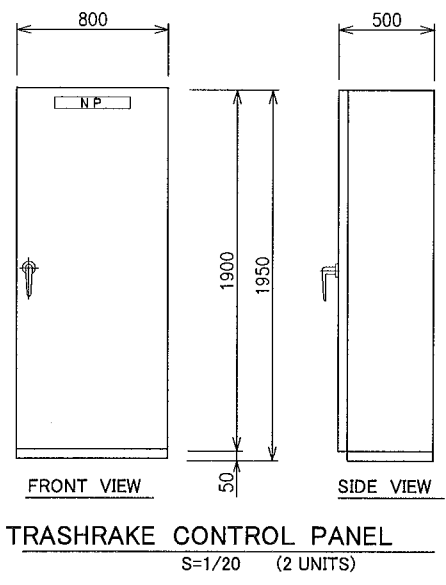
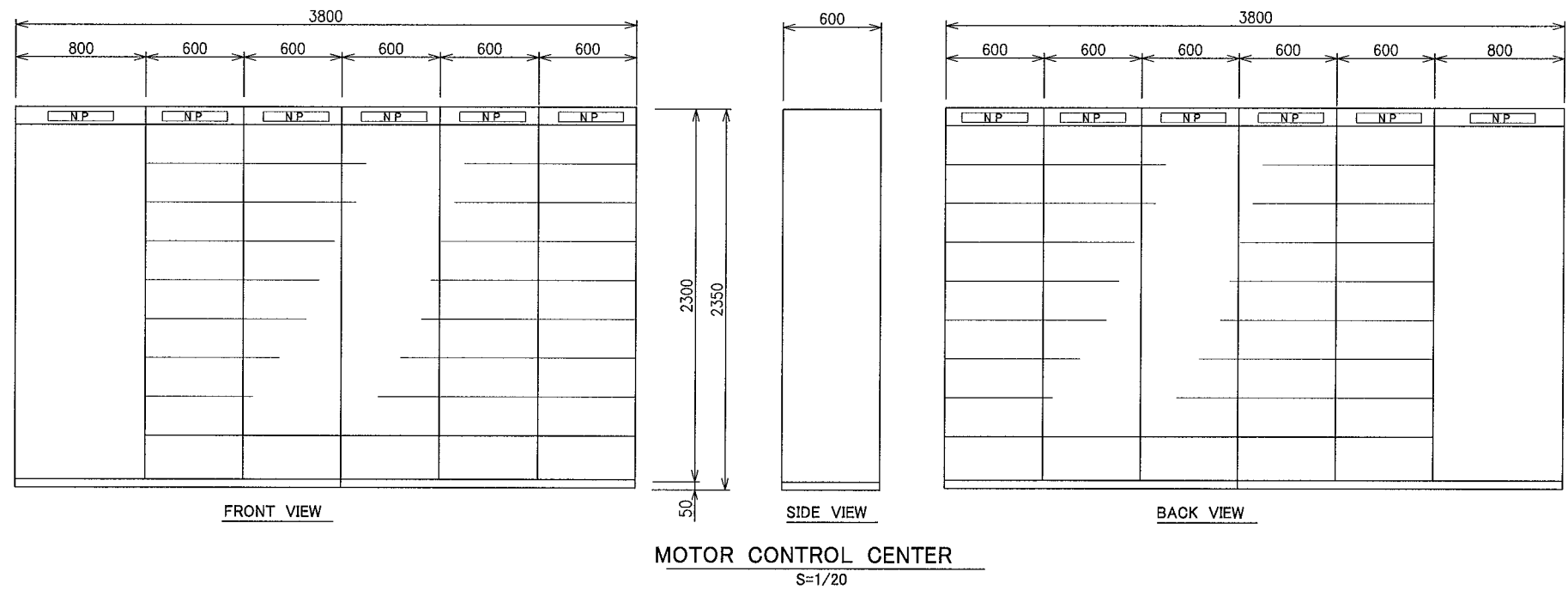
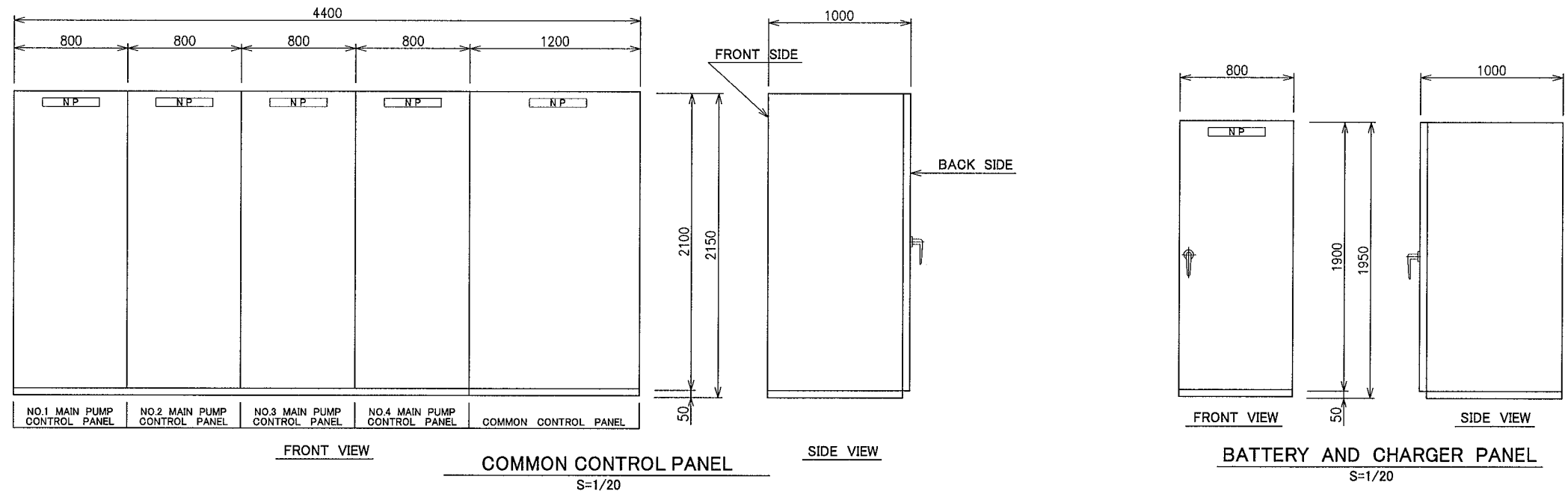
SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
	NO.1 TRASH RAKE CONT. PANEL	MOTOR CONTROL CENTER	600V CVT ' 60	(54)	IV 1#	
	NO.2		600V CVT ' 38	(42)	IV 8#	
	NO.1 FLOOD GATE CONT. PANEL		600V CV 3.5 - 3C	(22)	IV 3.5	
	NO.2					
	NO.3					
(M)	NO.1 FLOOD GATE	NO.1 FLOOD GATE CONT. PANEL	600V CV 3.5 - 3C	(22)	IV 3.5	2.6kW
(M)	NO.2	NO.2				
(M)	NO.3	NO.3				2.2kW
(LS)	NO.1 FLOOD GATE L. S.	NO.1 FLOOD GATE CONT. PANEL	CVV 2 - 10C	(28)		
(LS)	NO.2	NO.2				
(LS)	NO.3	NO.3				
	NO.1 FLOOD GATE CONT. PANEL	COMMON CONT. PANEL	CVV 2 - 15C	(36)		
	NO.2					
	NO.3					
(M)	NO.1 TRASH RAKE	NO.1 TRASH RAKE CONT. PANEL	600V CV 3.5 - 3C	(22)	IV 3.5	3.7kW
(M)	NO.2					
(M)	NO.3					
(M)	NO.4					
(M)	NO.5					
(M)	NO.6					
(LS)	NO.1 TRASH RAKE T. S.	NO.1 TRASH RAKE CONT. PANEL	CVV 2 - 2C	(22)		
(LS)	NO.2					
(LS)	NO.3					
(LS)	NO.4					
(LS)	NO.5					
(LS)	NO.6					
(LS)	NO.1 TRASH RAKE L. S.	NO.1 TRASH RAKE CONT. PANEL	CVV 2 - 2C	(22)		
(LS)	NO.2					
(LS)	NO.3					
(LS)	NO.4					
(LS)	NO.5					
(LS)	NO.6					
PBS - A	NO.1 TRASH RAKE PBS	TRASH RAKE CONT. PANEL	CVV 2 - 10C	(28)		
PBS - B	NO.2					
PBS - C	NO.3					
PBS - D	NO.4					
PBS - E	NO.5					
PBS - F	NO.6					

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
(M)	NO.7 TRASH RAKE	NO.2 TRASH RAKE CONT. PANEL	600V CV 3.5 - 3C	(22)	IV 3.5	3.7kW
(M)	NO.8					
(M)	H. CONVEYOR					2.2kW
(M)	I. CONVEYOR					3.7kW
(M)	DRANAGE PUMP					
(LS)	NO.7 TRASH RAKE T. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 - 2C	(22)		
(LS)	NO.8					
(LS)	NO.7 TRASH RAKE L. S.					
(LS)	NO.8					
PBS - G	NO.7 TRASH RAKE P. B. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 - 10C	(28)		
PBS - H	NO.8					
PBS - I	H. CONVEYOR P. B. S.					
PBS - J	I. CONVEYOR P. B. S.					
ELS - A	H. CONVEYOR E. ST. L. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 - 2C	(22)		
ELB - B	I. CONVEYOR E. ST. L. S.					
	Ed	TEST BOX FOR EARTH		(VE54)	IV 60	
	Ec					
	Et1				IV 5.5	
	Et2					
	TEST BOX FOR EARTH	Ed MAIN WIRE			IV 38	
		COMMON CONT. PANEL			IV 1#	
	COMMON CONT. PANEL	Ed MAIN WIRE			IV 1#	
	NO.1 MAIN PUMP CONT. PANEL					
	NO.2					
	NO.3					
	NO.4					
	BATTERY & CHARGER PANEL					
	MOTOR CONTROL CENTER				IV 38	

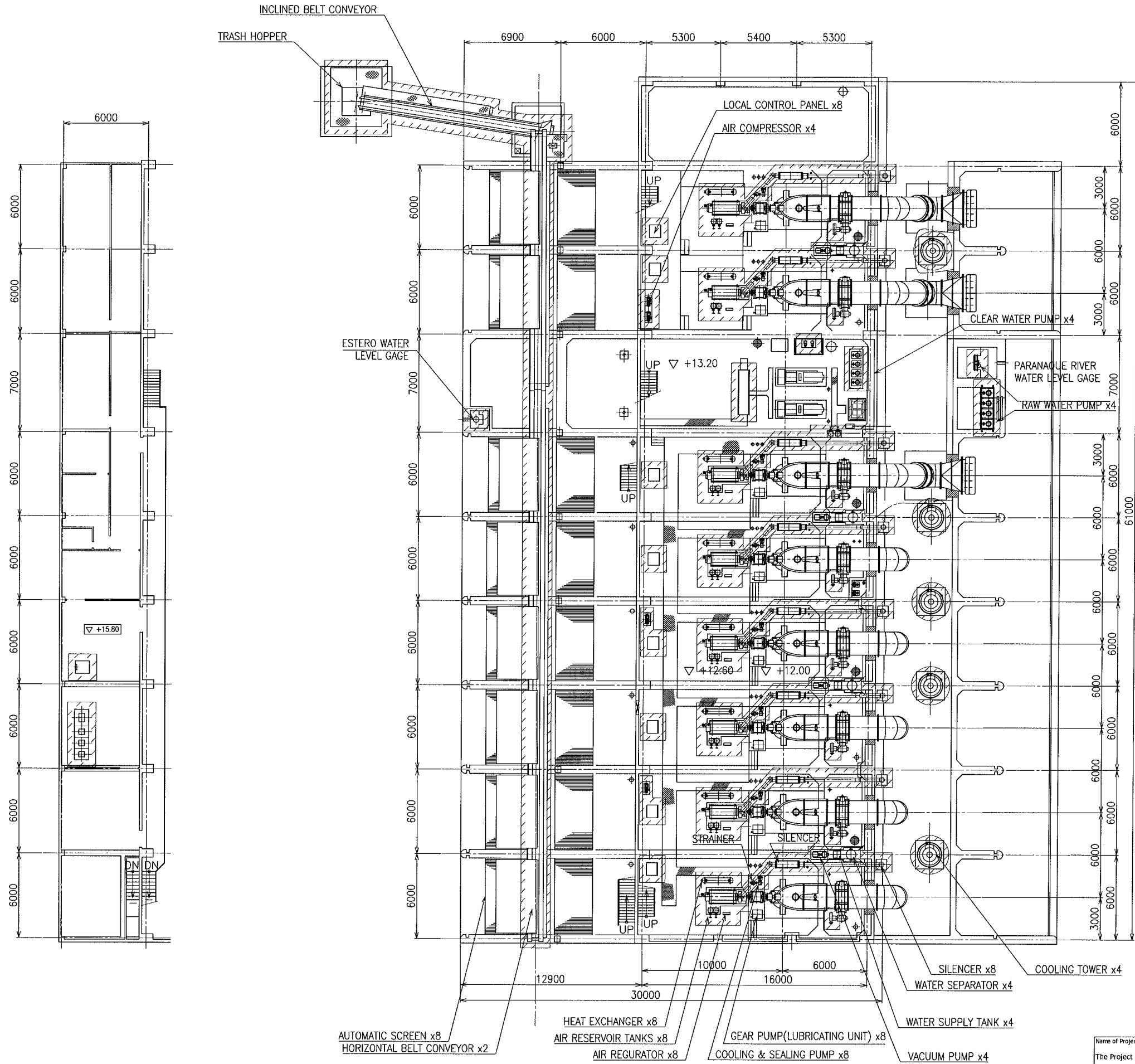


Existing cooling and sealing water pumps, raw water pumps and raw water valves will be dismantled. Other equipment will be replaced with new ones. No.4 main pump control panel will be additionally installed under this Project.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	68
Name of Drawings	Tripa de Gallina Drainage Pumping Station Proposed Single Line Diagram	Scale	-
		Date	Sep, 2007
: Japan International Cooperation Agency		: Metropolitan Manila Development Authority	

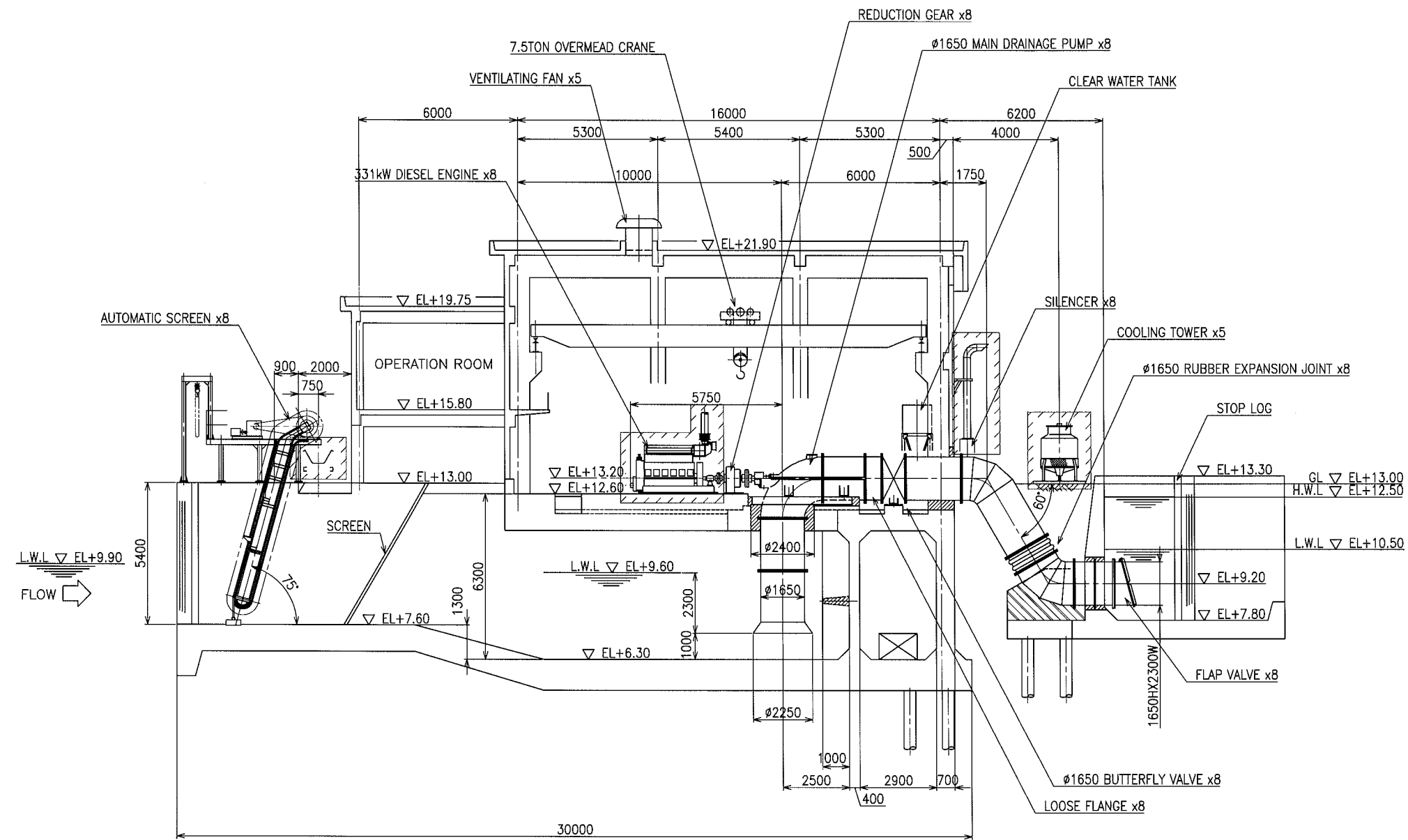


Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	69
Name of Drawings	Tripa de Gallina Drainage Pumping Station Reference Drawings of Panels	Scale	1/20
		Date	Sep., 2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	



NOTE: THE REMOVAL SCOPE IS SHOWN BY

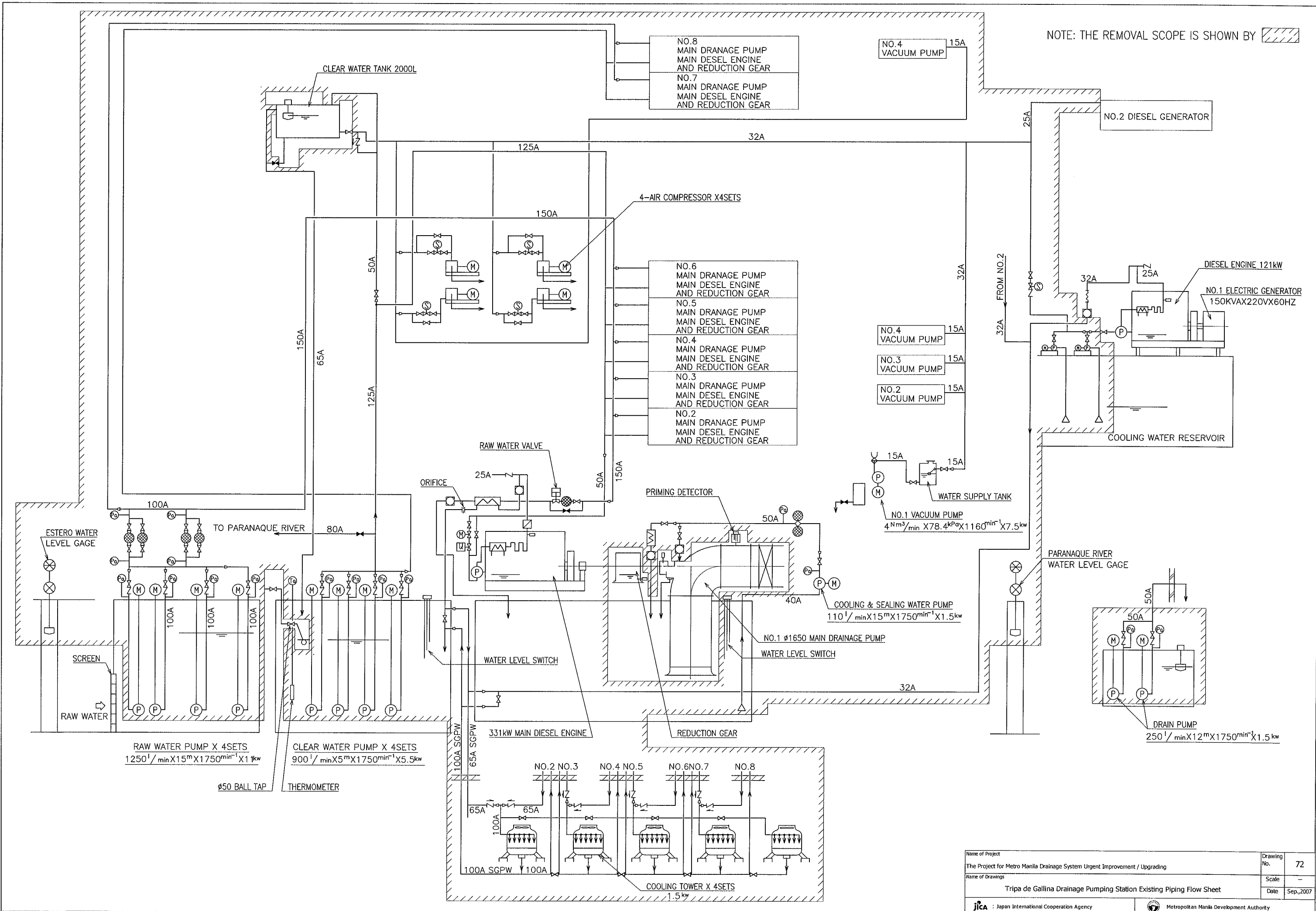
Name of Project		Drawing No.	70
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/150
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing General Layout			
: Japan International Cooperation Agency		MetroManila Development Authority	


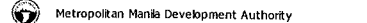



NOTE: THE REMOVAL SCOPE IS SHOWN BY

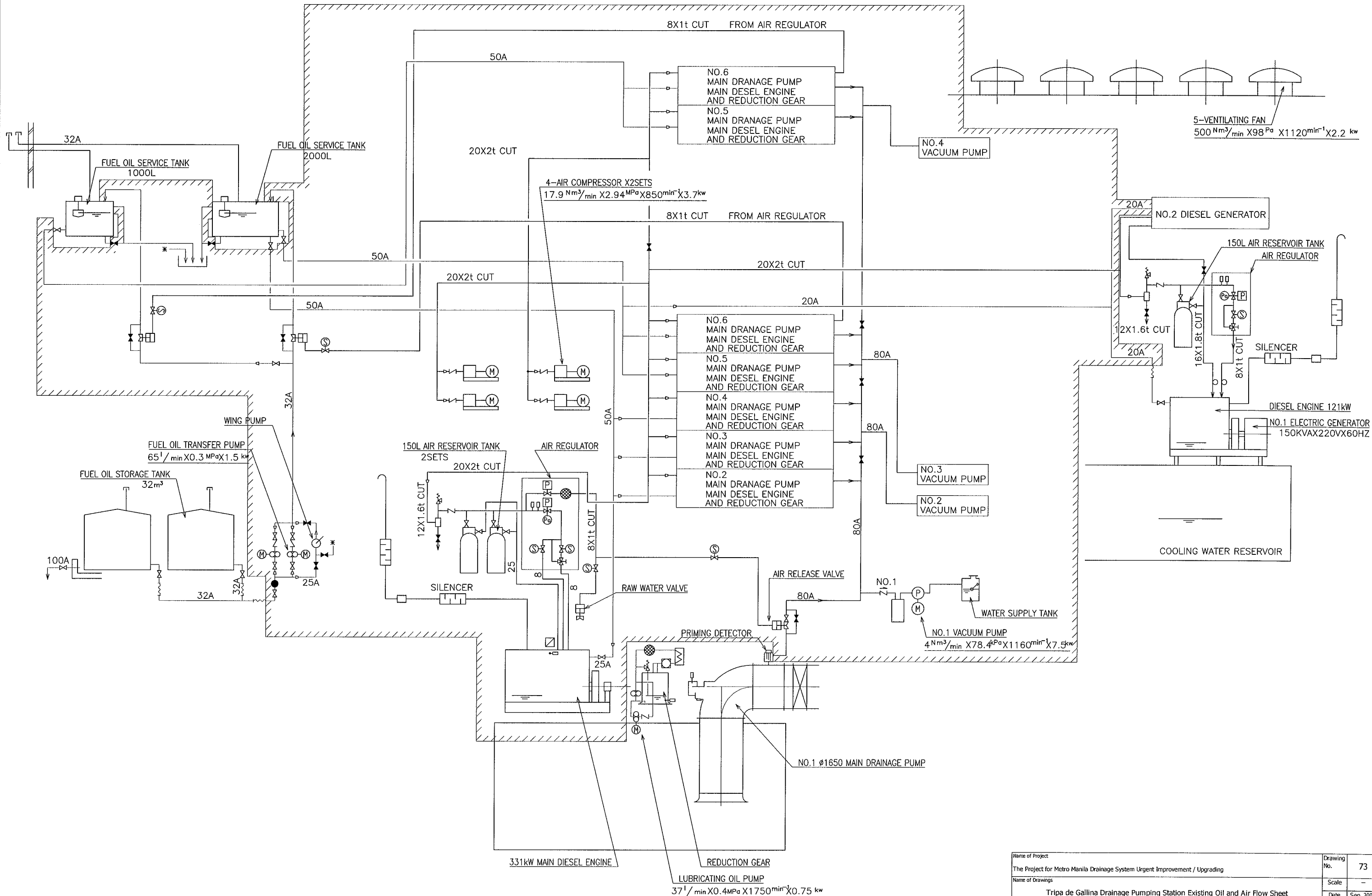
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	71
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Elevation View	Scale	1/100
		Date	Sep. 2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	

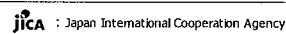
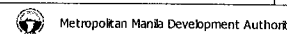
NOTE: THE REMOVAL SCOPE IS SHOWN BY 



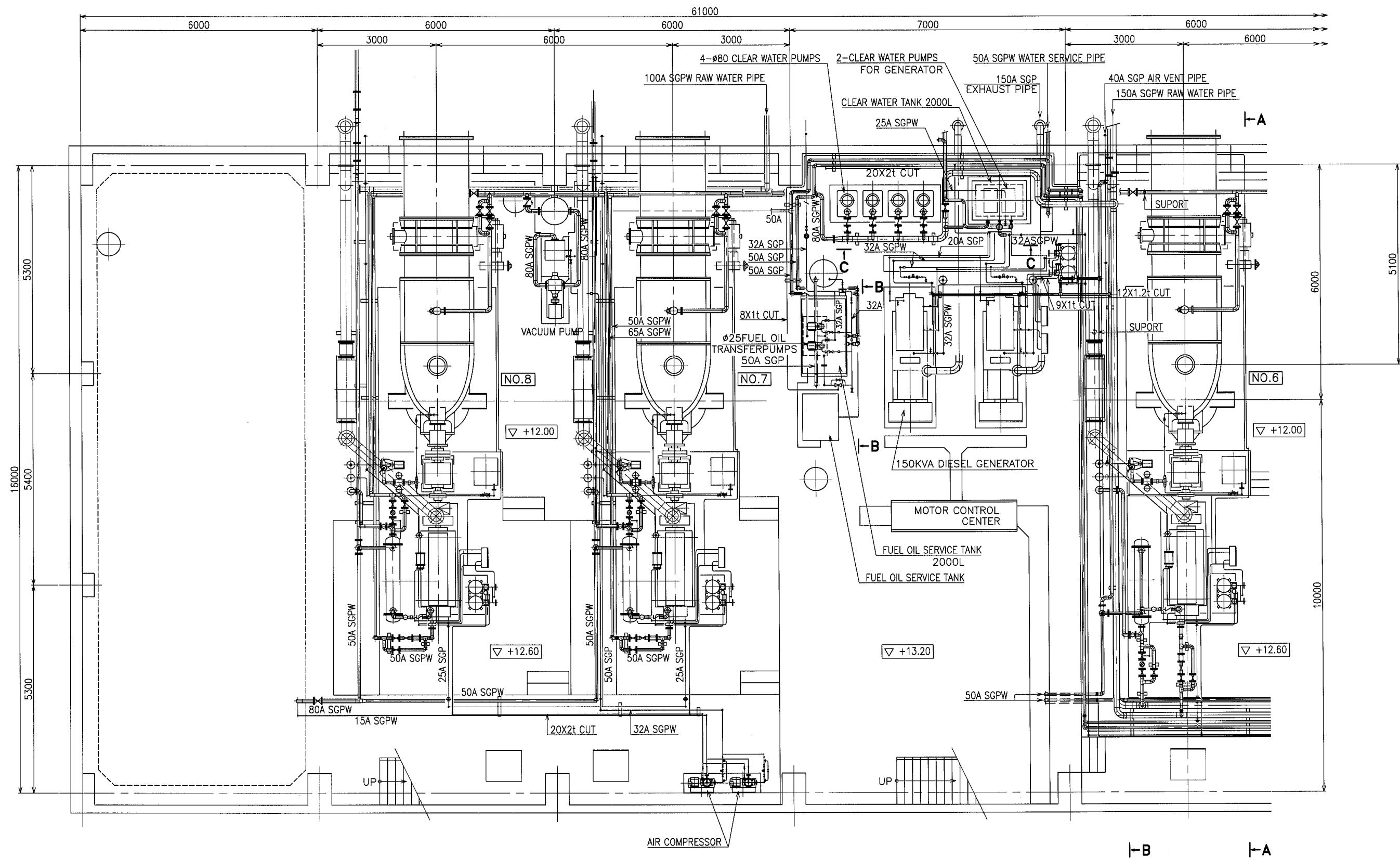
Name of Project		Drawing No.	72
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	-
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing Piping Flow Sheet			
 : Japan International Cooperation Agency		 Metropolitan Manila Development Authority	

NOTE: THE REMOVAL SCOPE IS SHOWN BY 



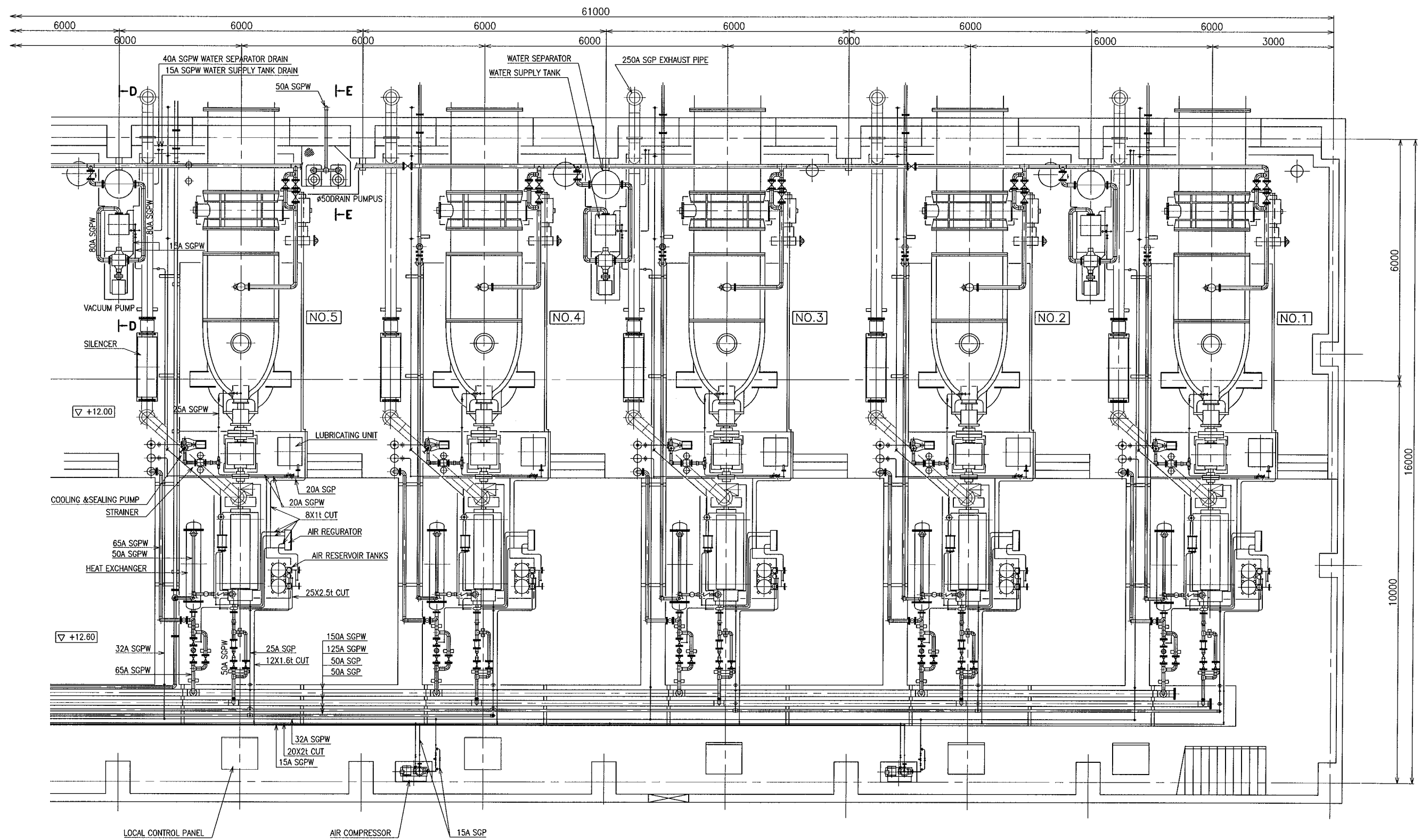
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	73
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Oil and Air Flow Sheet	Scale	-
		Date	Sep., 2007
 : Japan International Cooperation Agency		 Metropolitan Manila Development Authority	





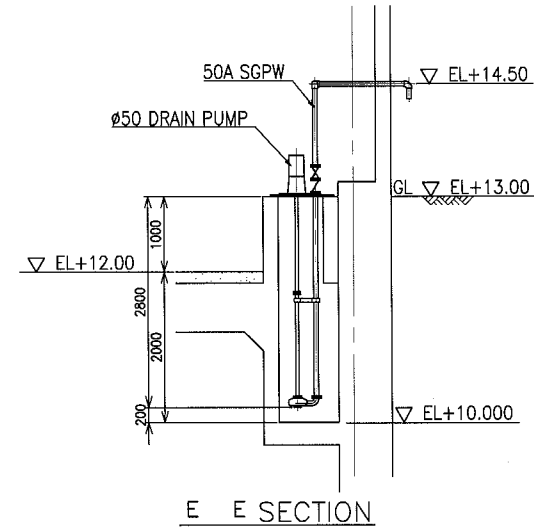
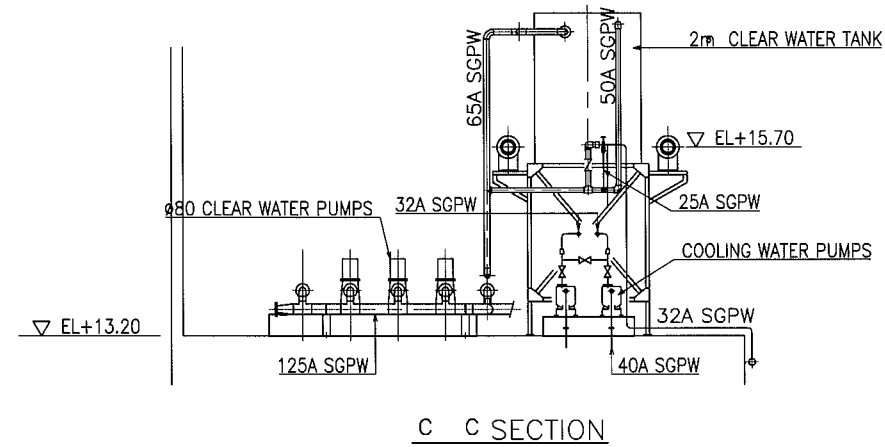
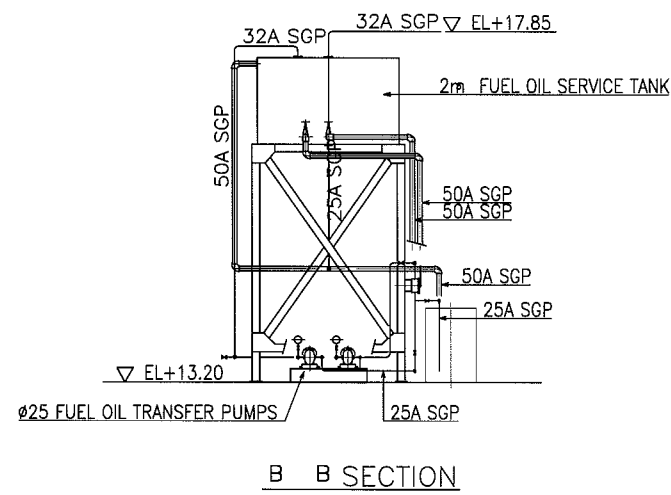
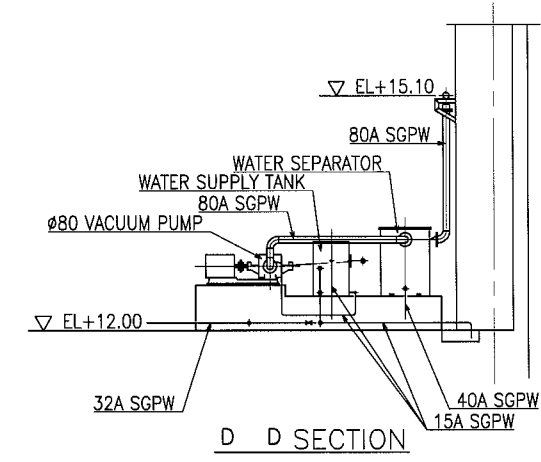
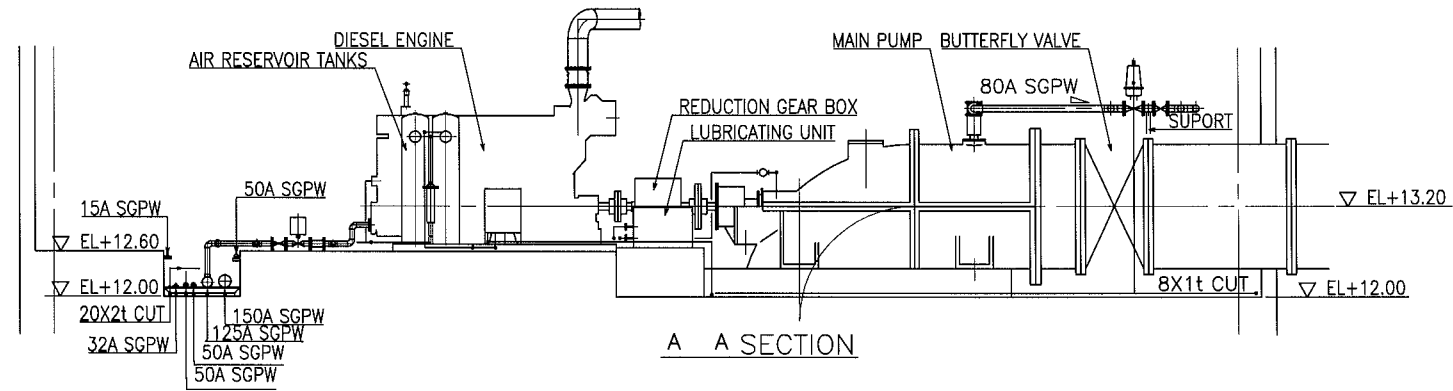
NOTE: REFER TO  
 \*EXISTING FLOW SHEET\*  
 \*EXISTING OIL AND AIR LINE FLOW SHEET\*  
 \*EXISTING GENERAL ARRANGEMENT\*  
 \*EXISTING SMALL PIPINGS\*  
 \*EXISTING SMALL PIPINGS ABOUT COOLING WATER\*  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF  
 PIPES EQUIPMENTS AND DEVICES.

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	74-1
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Small Piping(1/4)	Scale	1/50
		Date	Sep.,2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	

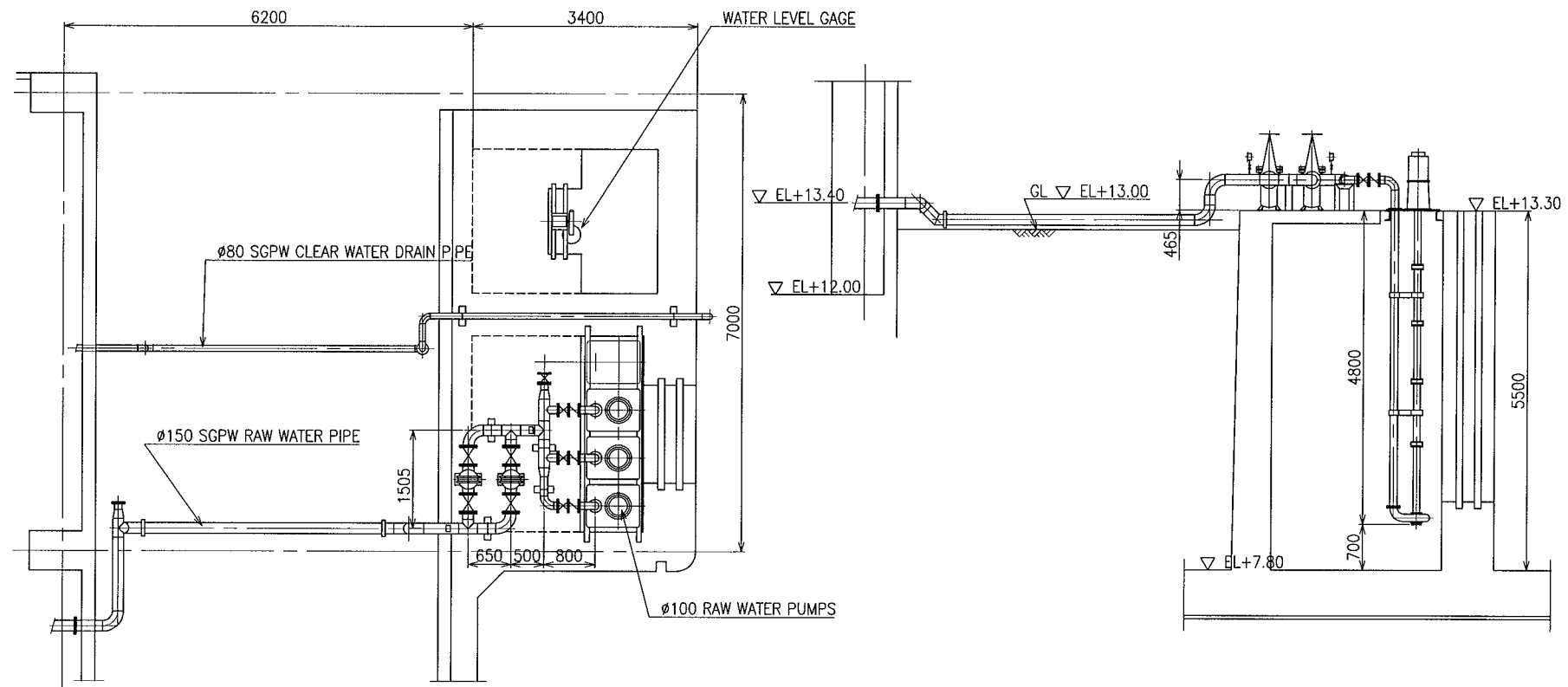




NOTE: REFER TO  
 'EXISTING FLOW SHEET'  
 'EXISTING OIL AND AIR LINE FLOW SHEET'  
 'EXISTING GENERAL ARRANGEMENT'  
 'EXISTING SMALL PIPINGS'  
 'EXISTING SMALL PIPINGS ABOUT COOLING WATER'  
 FOR MORE INFORMATION ON THE REMOVAL SCOPE OF  
 PIPES EQUIPMENTS AND DEVICES.

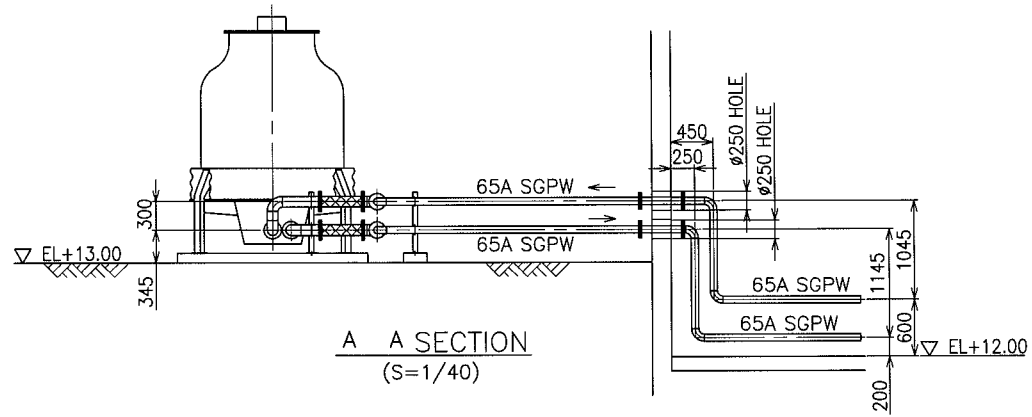
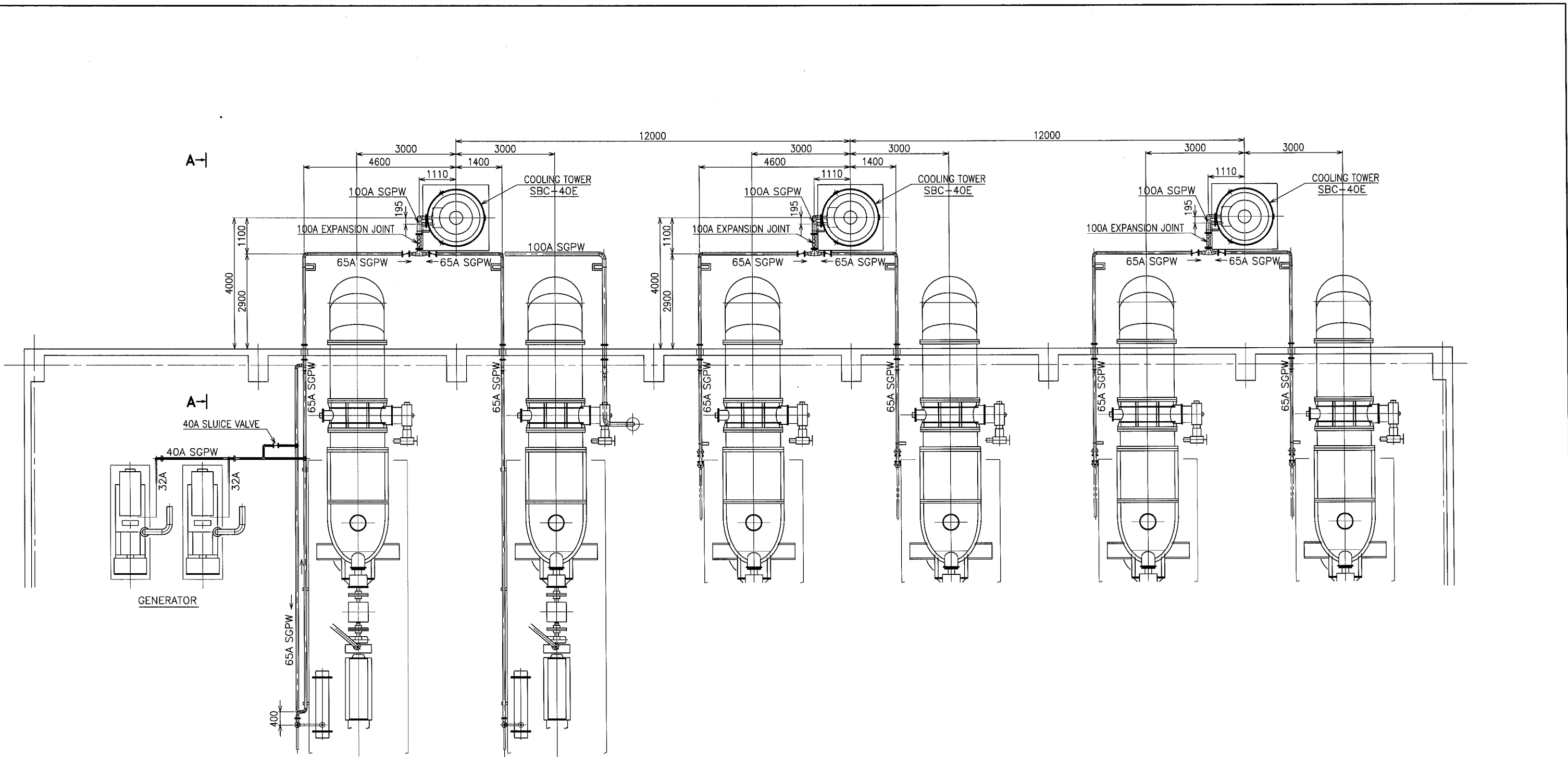
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	74-2
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Small Piping(2/4)	Scale	1/50
		Date	Sep.,2007
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	



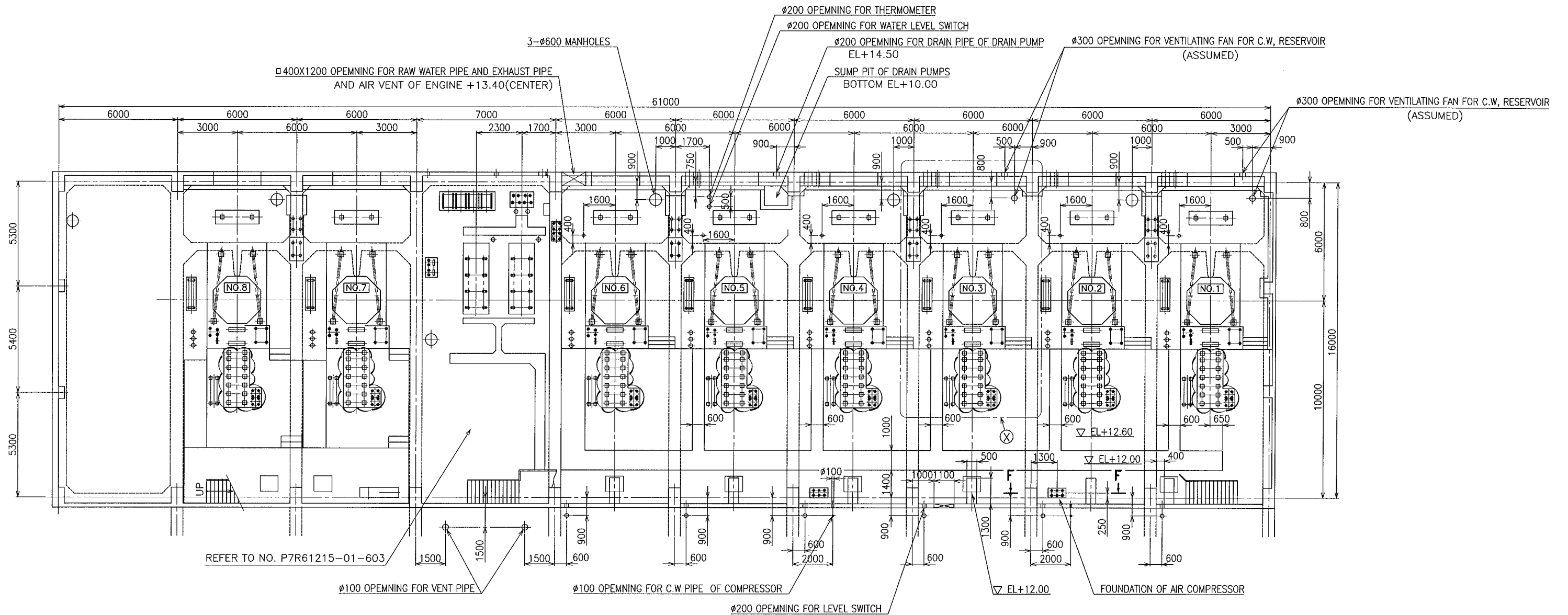
Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	74-3
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Small Piping(3/4)	Scale	1/50
		Date	Sep., 2007
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	



Name of Project		Drawing No.	74-4
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/50
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing Small Piping(4/4)			
 JICA : Japan International Cooperation Agency		 Metropolitan Manila Development Authority	

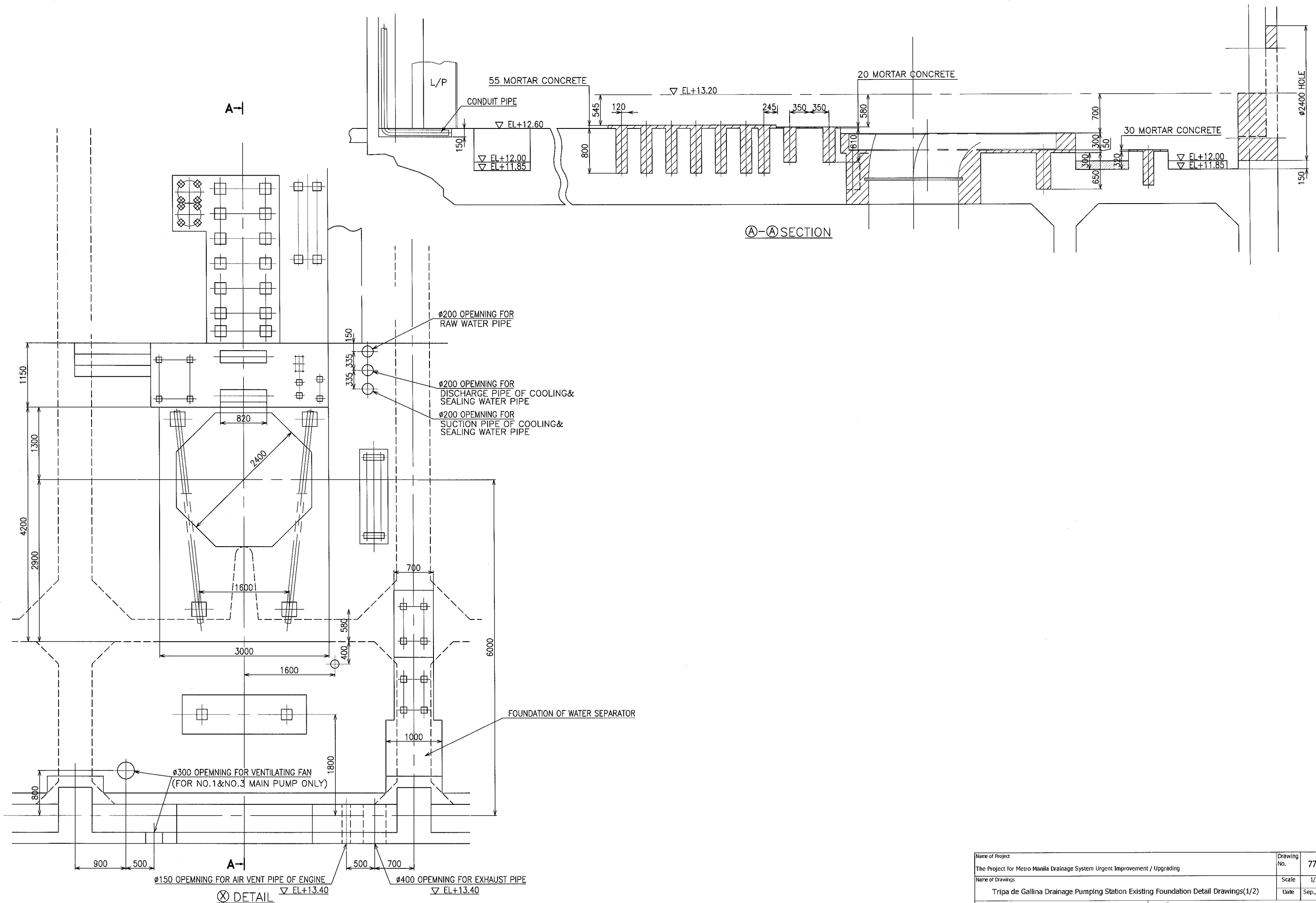


Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	75
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Cooling Tower Small Piping	Scale	1/60
		Date	Sep., 2007
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	

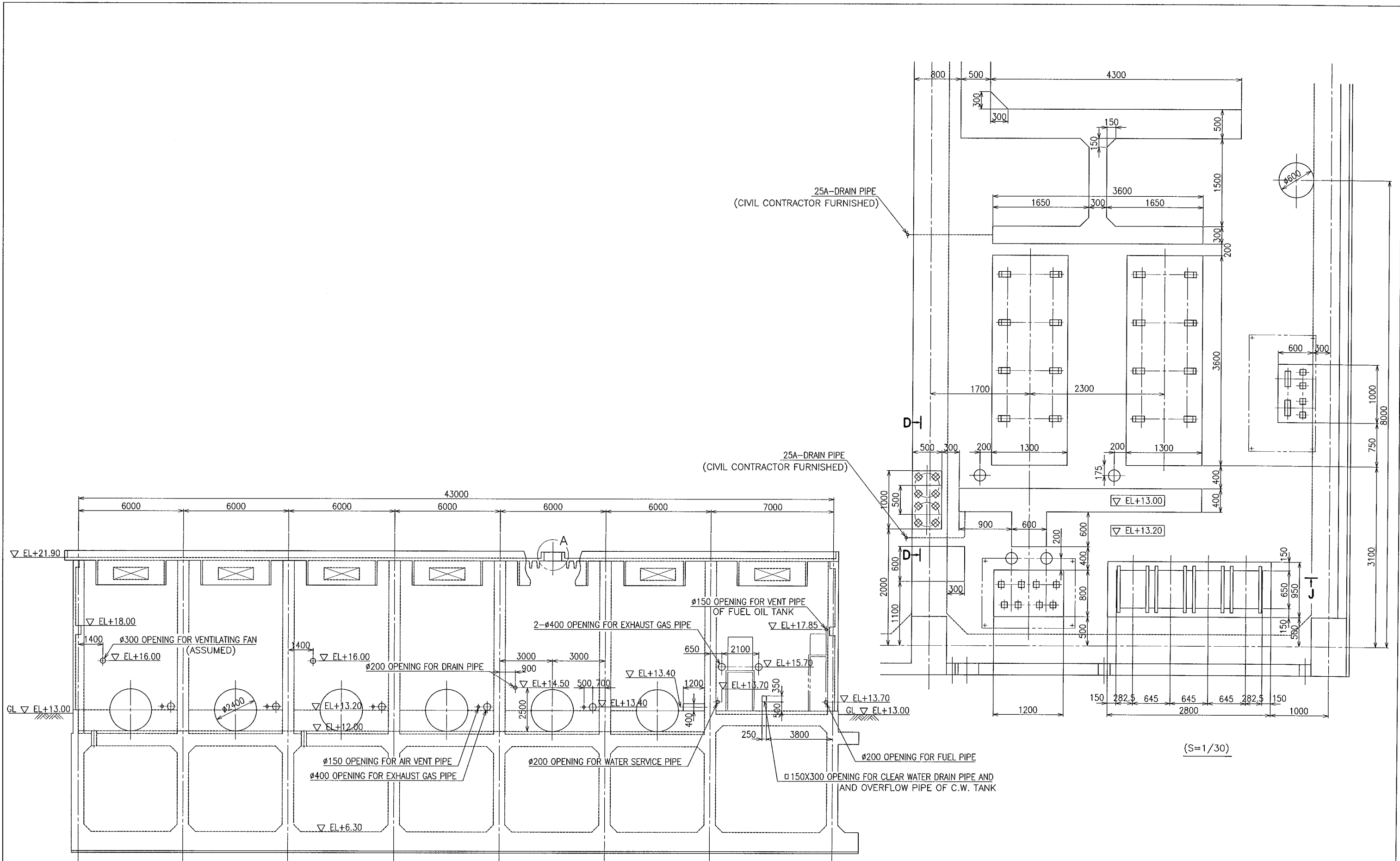


NOTE: THE REMOVAL SCOPE IS SHOWN BY

Name of Project		Drawing No.	76
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/100
Name of Drawings		Date	Sep.,2007
Tripa de Gallina Drainage Pumping Station Existing Foundation			
: Japan International Cooperation Agency		Metropolitan Manila Development Authority	

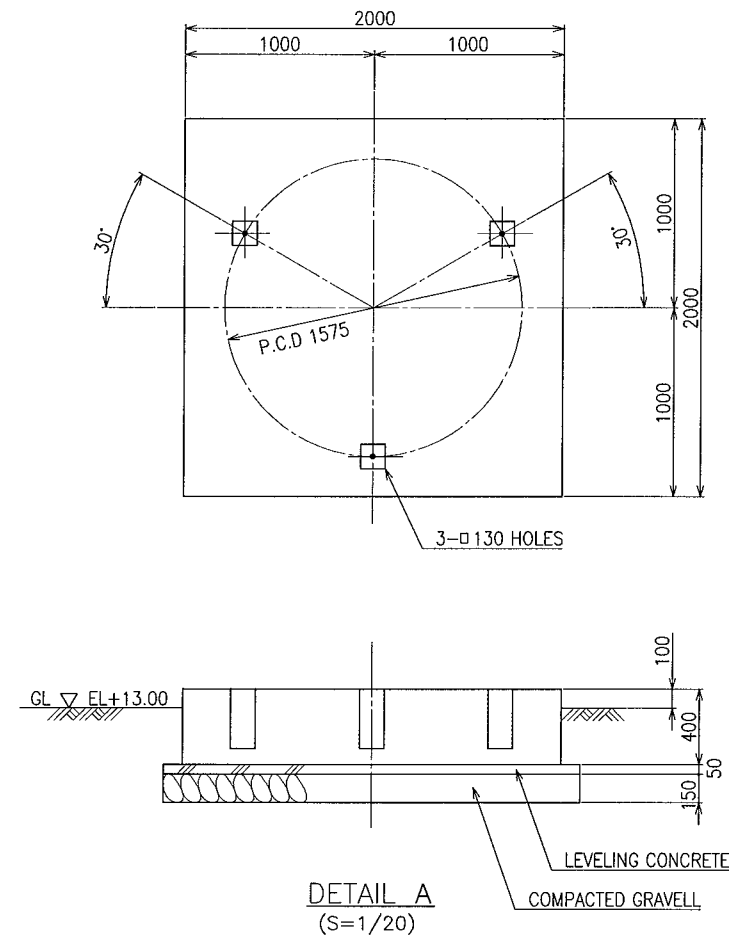
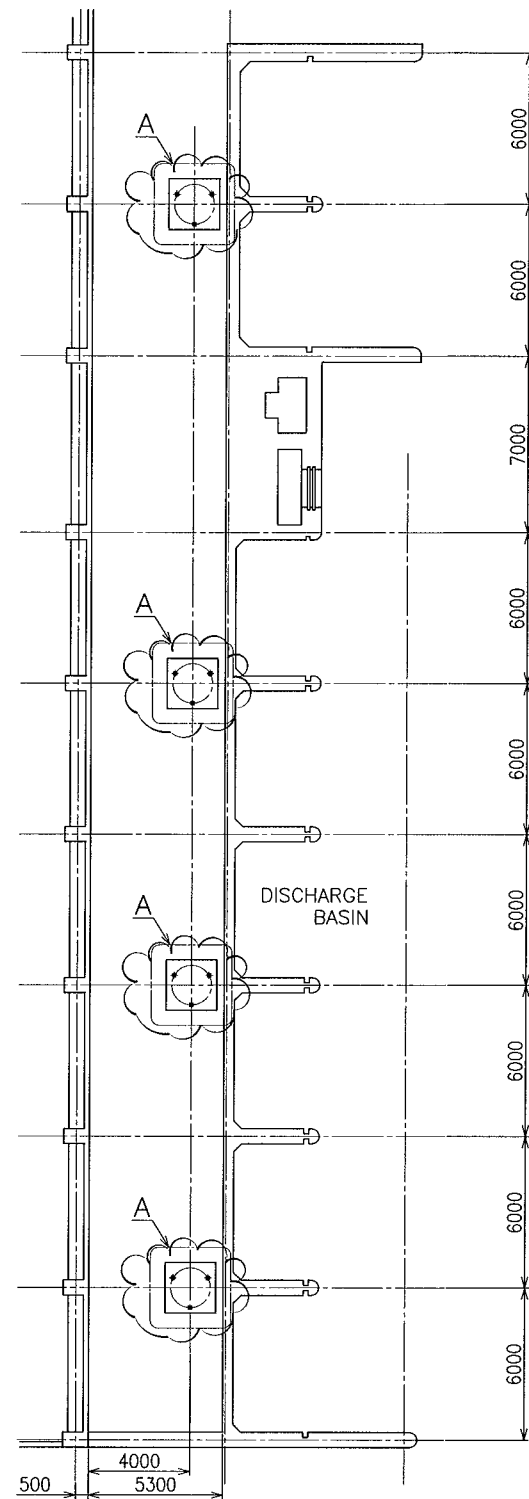


Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	77-1
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Foundation Detail Drawings(1/2)	Scale	1/30
		Date	Sep., 2007
: Japan International Cooperation Agency		: Metropolitan Manila Development Authority	




Name of Project		Drawing No.	77-2
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/100
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing Foundation Detail Drawings(2/2)			
: Japan International Cooperation Agency		: Metropolitan Manila Development Authority	

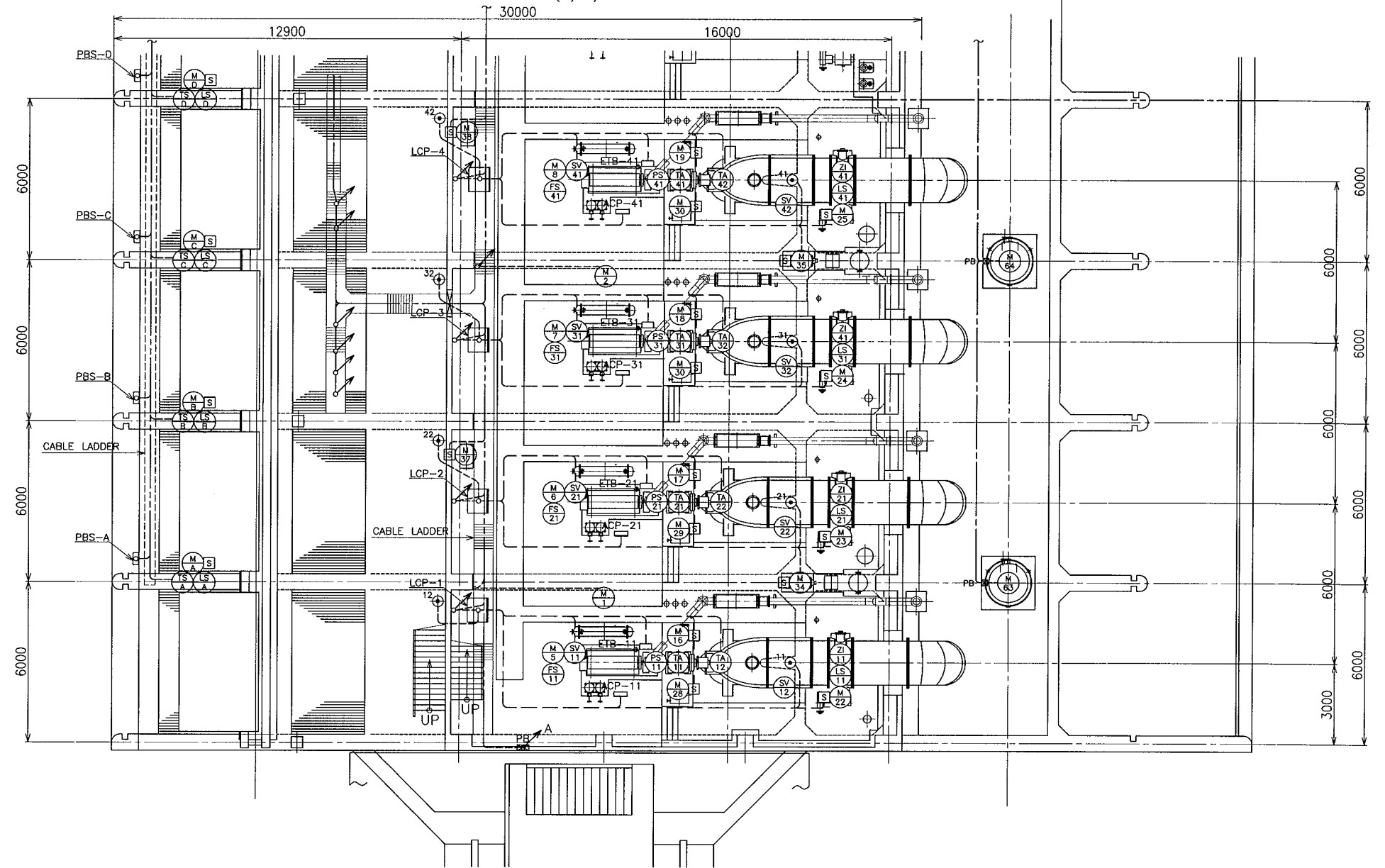
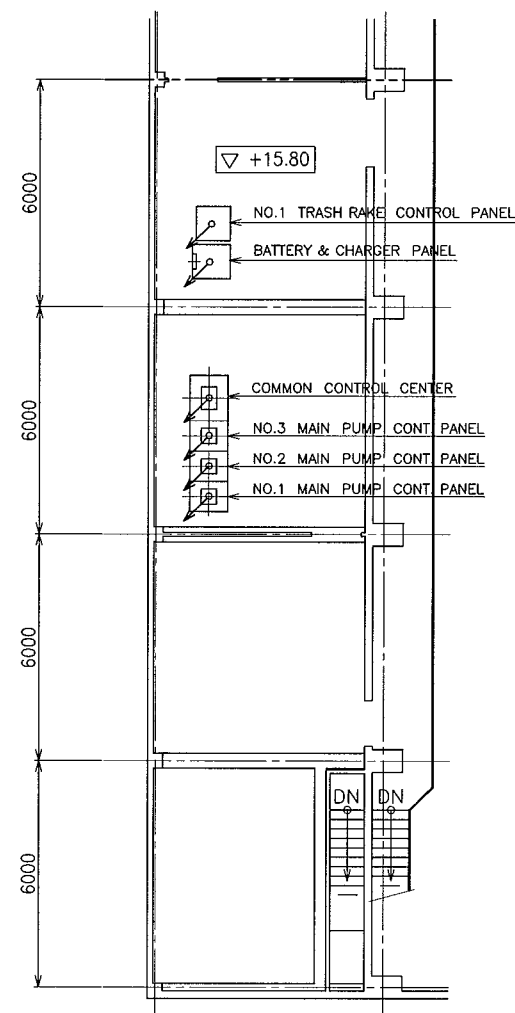




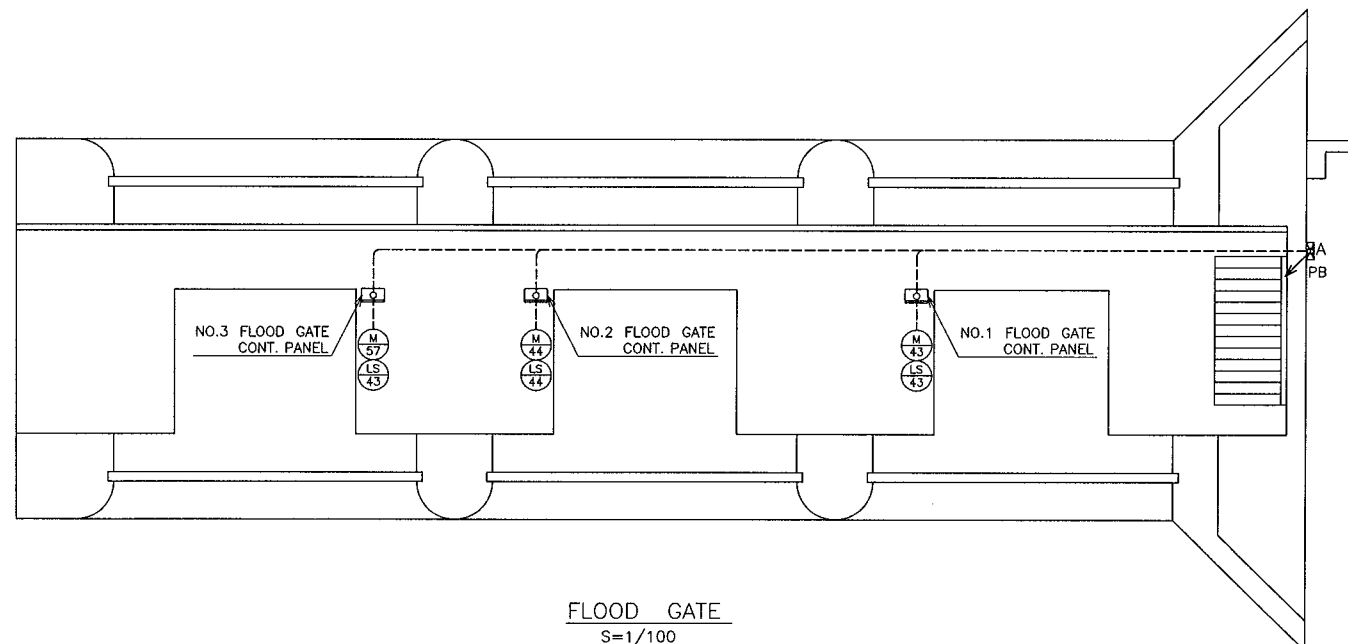
NOTE: THE REMOVAL SCOPE IS SHOWN BY 

Name of Project		Drawing No.	78
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/150
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing Cooling Tower Foundation			
jica : Japan International Cooperation Agency		 Metropolitan Manila Development Authority	



SEE WIRING LAYOUT (2/2)

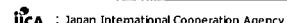



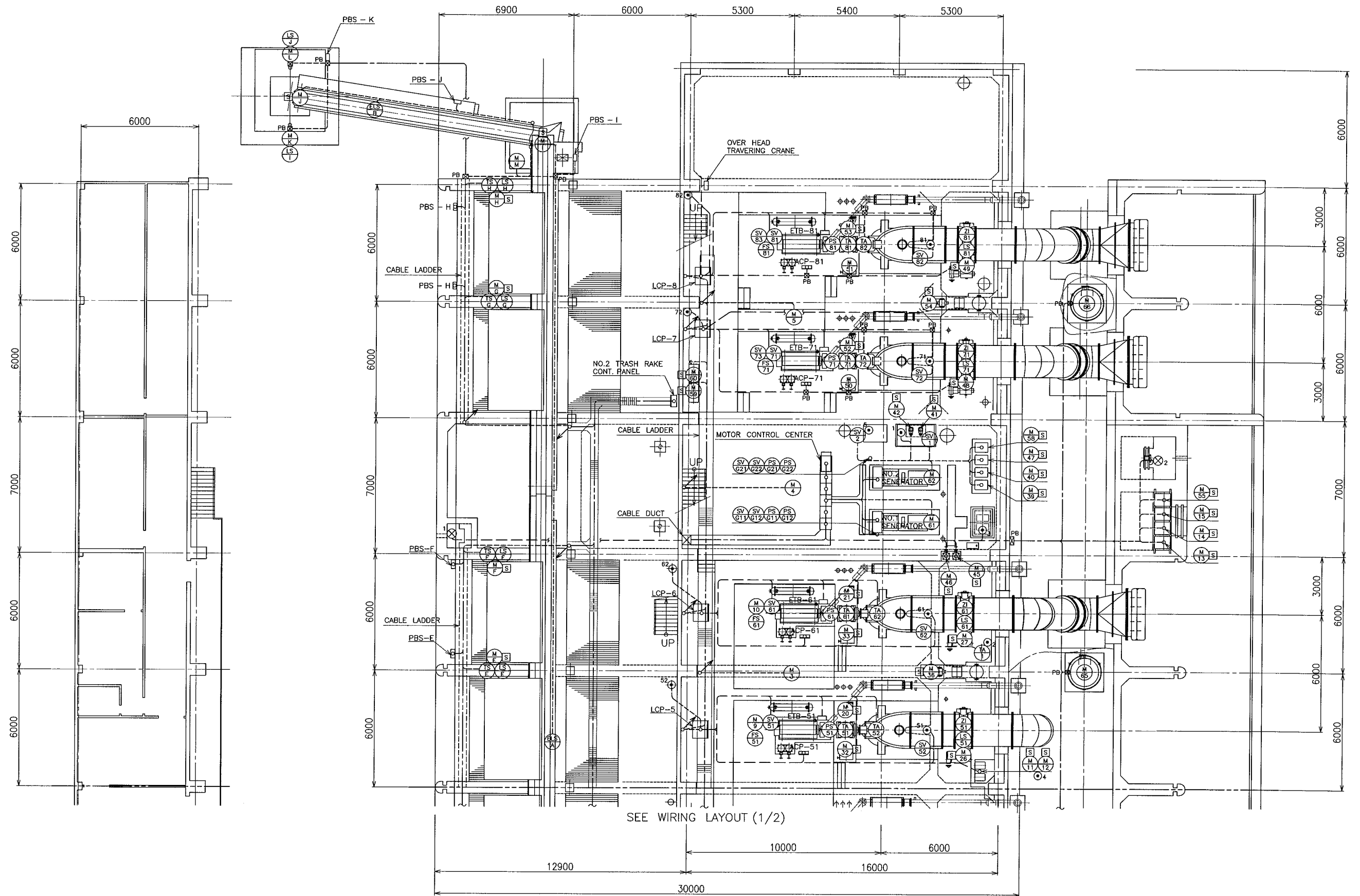
PUMPING FLOOR PLAN (1/2)  
S=1/100



NOTE

1.  CABLE LADDER
2.  : MCCB BOX

Name of Project		Drawing No.	79-1
The Project for Metro Manila Drainage System Urgent Improvement / Upgrading		Scale	1/100
Name of Drawings		Date	Sep., 2007
Tripa de Gallina Drainage Pumping Station Existing Wiring Layout(1/2)			
 : Japan International Cooperation Agency		 : Metropolitan Manila Development Authority	



PUMPING FLOOR PLAN (2/2)  
S=1/100

Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	79-2
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Wiring Layout(2/2)	Scale	1/100
		Date	Sep.,2007
JICA : Japan International Cooperation Agency		Metropolitan Manila Development Authority	

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
M 1	NO.1 VENTILATION FAN	MOTOR CONTROL CENTER	AWG #12 - 3C	(3/4")		2.2kW
M 2	NO.2					
M 3	NO.3					
M 4	NO.4					
M 5	NO.5					
M 11	NO.1 DRAIN PUMP					1.5kW
M 12	NO.2					
M 13	NO.1 RAW WATER PUMP		AWG #6 - 3C	(1")		11kW
M 14	NO.2					
M 15	NO.3					
M 16	NO.4					
M 17	NO.1 C. AND SEALING. W. P		AWG #12 - 3C	(3/4")		1.5kW
M 18	NO.2					
M 19	NO.3					
M 20	NO.4					
M 21	NO.5					2.2kW
M 22	NO.6					
M 23	NO.7					2.4kW
M 24	NO.8					
M 25	NO.1 DISCHARGE VALVE					
M 26	NO.2					
M 27	NO.3					
M 28	NO.4					
M 29	NO.5					
M 30	NO.6					
M 31	NO.7					2.2kW
M 32	NO.8					
M 33	NO.1 LUBE OIL PUMP FOR REDUCTION GEAR					0.75kW
M 34	NO.2					
M 35	NO.3					
M 36	NO.4					
M 37	NO.5					
M 38	NO.6					
M 39	NO.7					
M 40	NO.8					
M 41	NO.1 VACUUM PUMP		AWG #8 - 3C	(1")		7.5kW
M 42	NO.2					
M 43	NO.3					
M 44	NO.4					
M 45	NO.1 AIR COMPRESSOR		AWG #10 - 3C	(3/4")		3.7kW
M 46	NO.2					
M 47	NO.3					
M 48	NO.4					
M 49	NO.1 CLEAR WATER PUMP		AWG #8 - 3C	(1")		5.5kW
M 50	NO.2					
M 51	NO.3					
M 52	NO.4					
M 53	NO.1 FUEL OIL TRANSFER PUMP		AWG #12 - 3C	(3/4")		1.5kW
M 54	NO.2					
M 55	NO.1 CLEAR WATER PUMP FOR GENERATOR					
M 56	NO.2					

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
M 57	NO.1 C. W. R. VENT FAN	MOTOR CONTROL CENTER	AWG #12 - 3C	(3/4")		0.4kW
M 58	NO.2					
M 59	NO.1 COOLING TOWER					1.5kW
M 60	NO.2					
M 61	NO.3					
M 62	NO.4					
M 63	OVER HEAD TRAVELING CRANE		AWG #6 - 3C	(1")		6.65kW
M 64	BATTERY PANEL		AWG #10 - 3C			
M 65	LIGHTING PANEL		AWG #6 - 3C	(1")		
M 66	NO.1 GENERATOR PANEL		MCM 250 - 3C x 2	(3") x 2		
M 67	NO.2					
M 68	MERALCO INCOMING					
M 69	COMMON CONTROL PANEL		AWG #10 - 2C			
M 70			AWG #12 - 3C x 4			
M 71	BATTERY & CHARGER PANEL	EMERGENCY LIGHTING	AWG #12 - 2C			
M 72	LCP - 1	NO.1 LOCAL CONT. PANEL				
M 73	LCP - 2	NO.2				
M 74	LCP - 3	NO.3				
M 75	LCP - 4	NO.4				
M 76	LCP - 5	NO.5				
M 77	LCP - 6	NO.6				
M 78	LCP - 7	NO.7				
M 79	LCP - 8	NO.8				
M 80		COMMON CONT. PANEL				
M 81		NO.1 GENERATOR PANEL	AWG #10 - 2C			
M 82		NO.2				
M 83		COMMON CONT. PANEL	AWG #12 - 2C			
M 84						
M 85	MOTOR CONTROL CENTER	COMMON CONT. PANEL	AWG #14 - 12C			
M 86		NO.1 MAIN PUMP CONT. PANEL	AWG #14 - 14C			
M 87		NO.2				
M 88		NO.3				
M 89		NO.1 LOCAL CONT. PANEL	AWG #10 - 2C			
M 90			AWG #14 - 29C			
M 91		NO.2 LOCAL CONT. PANEL	AWG #10 - 2C			
M 92			AWG #14 - 29C			
M 93		NO.3 LOCAL CONT. PANEL	AWG #10 - 2C			
M 94			AWG #14 - 29C			
M 95		NO.4 LOCAL CONT. PANEL	AWG #10 - 2C			
M 96			AWG #14 - 29C			
M 97		NO.5 LOCAL CONT. PANEL	AWG #10 - 2C			
M 98			AWG #14 - 29C			
M 99		NO.6 LOCAL CONT. PANEL	AWG #10 - 2C			
M 100			AWG #14 - 29C			
M 101		NO.7 LOCAL CONT. PANEL	AWG #14 - 20C x 2			
M 102			AWG #12 - 2C			
M 103		NO.8 LOCAL CONT. PANEL	AWG #14 - 20C x 2			
M 104			AWG #12 - 2C			
M 105		COMMON CONT. PANEL	AWG #14 - 20C			
M 106						
M 107	NO.1 GENERATOR PANEL	COMMON CONT. PANEL	AWG #14 - 12C	(1")		
M 108	NO.2					
M 109	NO.1	MOTOR CONTROL CENTER	MCM 250 <sup>P</sup> - 3C x 2			
M 110	NO.2					

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
(LS 1)	NO.1 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER	AWG # 14 - 5C			
		NO.1 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 1)		NO.1 LOCAL CONT. PANEL				
(LS 2)	NO.2 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.1 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 2)		NO.2 LOCAL CONT. PANEL				
(LS 3)	NO.3 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.2 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 3)		NO.3 LOCAL CONT. PANEL				
(LS 4)	NO.4 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.2 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 4)		NO.4 LOCAL CONT. PANEL				
(LS 5)	NO.5 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.3 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 5)		NO.5 LOCAL CONT. PANEL				
(LS 6)	NO.6 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.3 MAIN PUMP CONT. PANEL		(1 1/2")		
(ZI 6)		NO.6 LOCAL CONT. PANEL				
(LS 7)	NO.7 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.7 LOCAL CONT. PANEL		(1 1/2")		
(ZI 7)						
(LS 8)	NO.8 DISCHARGE VALVE (LS)	MOTOR CONTROL CENTER				
		NO.8 LOCAL CONT. PANEL		(1 1/2")		
(ZI 8)						
LCP-1	COMMON CONT. PANEL	NO.1 LOCAL CONT. PANEL	AWG # 14 - 6C			
	NO.1 MAIN PUMP CONT. PANEL		AWG # 14 - 25C			
ETB-11	NO.1 ENGINE T. B		AWG # 14 - 3C x 2	(1 1/4")		
			AWG # 14 - 2C x 2			
ACP-11	NO.1 AIR CONT. PANEL		AWG # 14 - 2C x 4	(1 1/4")		
(TA 11)	NO.1 G. B LUB OIL TEMP.		AWG # 14 - 2C	(1/2")		
(TA 12)	NO.1 PUMP BEARING TEMP.		AWG # 14 - 3C			
(P 11)	NO.1 PRIMING DETECTOR					
(P 12)	NO.1 SUCTION PIT LEVEL					
(M 5)	NO.1 RAW WATER SV.		AWG # 14 - 5C	(3/4")		
(SV 11)	NO.1 CLEAR WATER SV.		AWG # 14 - 2C	(1/2")		
(FS 11)	NO.1 COOLING W. FLOW SWITCH					
(PS 11)	NO.1 G. B LUB OIL PS.		AWG # 14 - 3C			
(SV 12)	NO.1 WATER SV.		AWG # 14 - 5C			
LCP-2	COMMON CONT. PANEL	NO.2 LOCAL CONT. PANEL	AWG # 14 - 6C			
	NO.1 MAIN PUMP CONT. PANEL		AWG # 14 - 25C			
ETB-21	NO.2 ENGINE T. B		AWG # 14 - 3C x 2	(1 1/4")		
			AWG # 14 - 2C x 2			
ACP-21	NO.2 AIR CONT. PANEL		AWG # 14 - 2C x 4	(1 1/4")		
(TA 21)	NO.2 G. B LUB OIL TEMP.		AWG # 14 - 2C	(1/2")		
(TA 22)	NO.2 PUMP BEARING TEMP.		AWG # 14 - 3C			
(P 21)	NO.2 PRIMING DETECTOR					
(P 22)	NO.2 SUCTION PIT LEVEL					
(M 5)	NO.2 RAW WATER SV.		AWG # 14 - 5C	(3/4")		
(SV 21)	NO.2 CLEAR WATER SV.		AWG # 14 - 2C	(1/2")		
(FS 21)	NO.2 COOLING W. FLOW SWITCH					
(PS 21)	NO.2 G. B LUB OIL PS.		AWG # 14 - 3C			
(SV 22)	NO.2 WATER SV.		AWG # 14 - 5C			

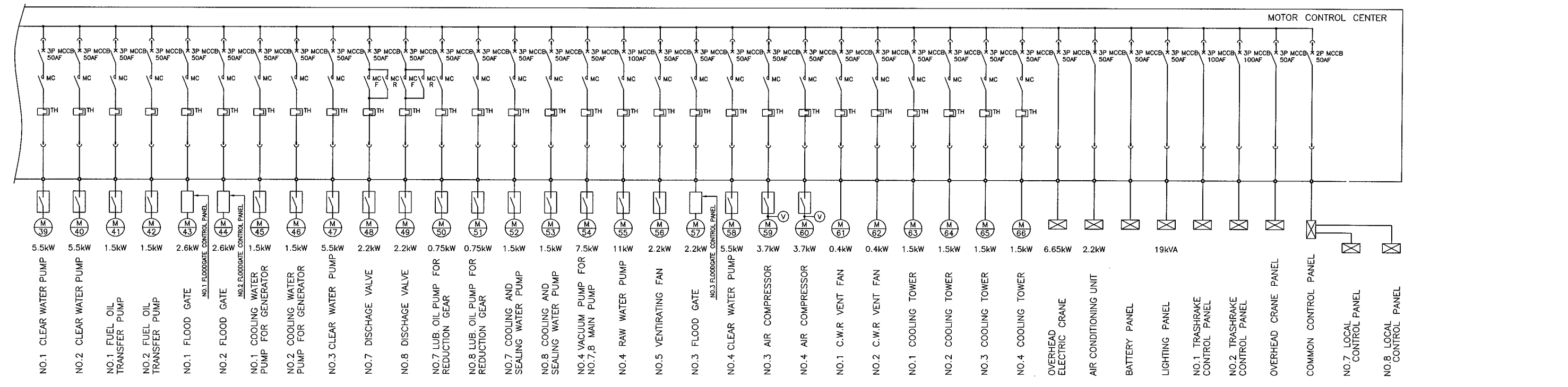
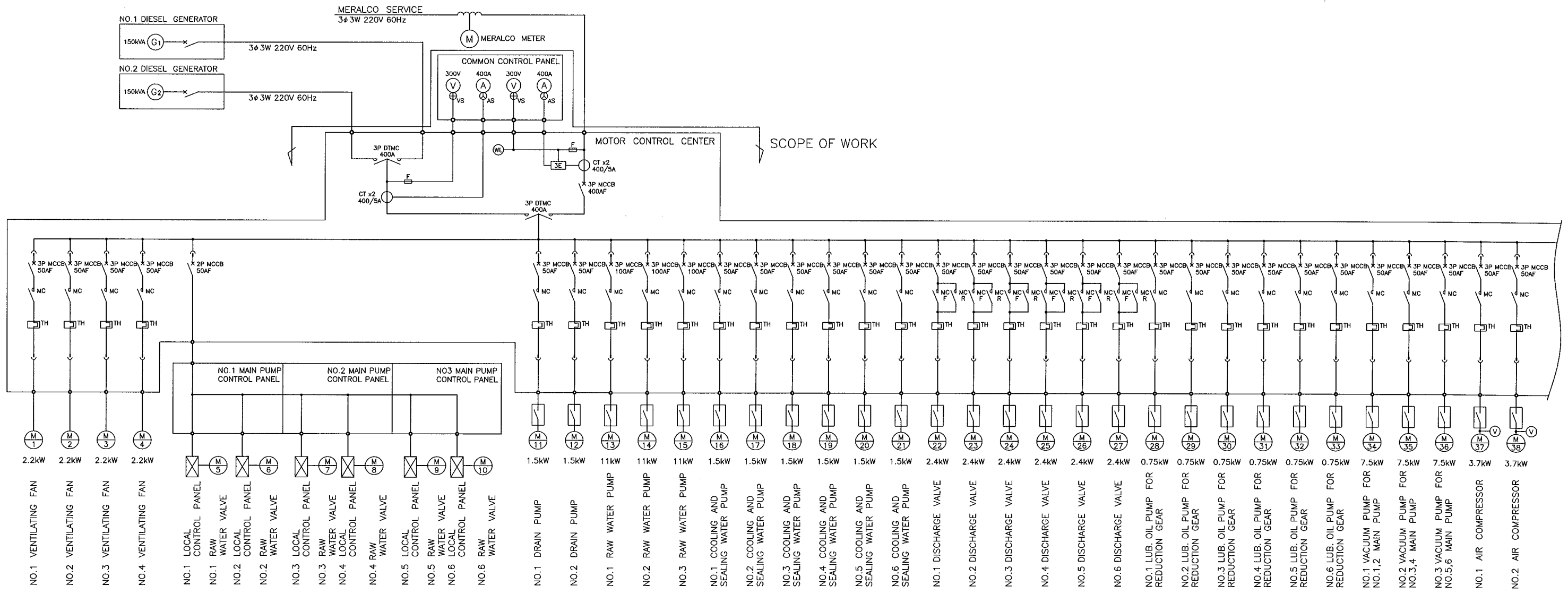
SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
LCP-3	COMMON CONT. PANEL	NO.3 LOCAL CONT. PANEL	AWG # 14 - 6C			
	NO.2 MAIN PUMP CONT. PANEL		AWG # 14 - 25C			
ETB-31	NO.3 ENGINE T. B		AWG # 14 - 3C x 2	(1 1/4")		
			AWG # 14 - 2C x 2			
ACP-31	NO.3 AIR CONT. PANEL		AWG # 14 - 2C x 4	(1 1/4")		
(TA 31)	NO.3 G. B LUB OIL TEMP.		AWG # 14 - 2C	(1/2")		
(TA 32)	NO.3 PUMP BEARING TEMP.		AWG # 14 - 3C			
(P 31)	NO.3 PRIMING DETECTOR					
(P 32)	NO.3 SUCTION PIT LEVEL					
(M 5)	NO.3 RAW WATER SV.		AWG # 14 - 5C	(3/4")		
(SV 31)	NO.3 CLEAR WATER SV.		AWG # 14 - 2C	(1/2")		
(FS 31)	NO.3 COOLING W. FLOW SWITCH					
(PS 31)	NO.3 G. B LUB OIL PS.		AWG # 14 - 3C			
(SV 32)	NO.3 WATER SV.		AWG # 14 - 5C			
LCP-4	COMMON CONT. PANEL	NO.4 LOCAL CONT. PANEL	AWG # 14 - 6C			
	NO.2 MAIN PUMP CONT. PANEL		AWG # 14 - 25C			
ETB-41	NO.4 ENGINE T. B		AWG # 14 - 3C x 2	(1 1/4")		
			AWG # 14 - 2C x 2			
ACP-41	NO.4 AIR CONT. PANEL		AWG # 14 - 2C x 4	(1 1/4")		
(TA 41)	NO.4 G. B LUB OIL TEMP.		AWG # 14 - 2C	(1/2")		
(TA 42)	NO.4 PUMP BEARING TEMP.		AWG # 14 - 3C			
(P 41)	NO.4 PRIMING DETECTOR					
(P 42)	NO.4 SUCTION PIT LEVEL					
(M 5)	NO.4 RAW WATER SV.		AWG # 14 - 5C	(3/4")		
(SV 41)	NO.4 CLEAR WATER SV.		AWG # 14 - 2C	(1/2")		
(FS 41)	NO.4 COOLING W. FLOW SWITCH					
(PS 41)	NO.4 G. B LUB OIL PS.		AWG # 14 - 3C			
(SV 42)	NO.4 WATER SV.		AWG # 14 - 5C			
LCP-5	COMMON CONT. PANEL	NO.5 LOCAL CONT. PANEL	AWG # 14 - 6C			
	NO.3 MAIN PUMP CONT. PANEL		AWG # 14 - 25C			
ETB-51	NO.5 ENGINE T. B		AWG # 14 - 3C x 2	(1 1/4")		
			AWG # 14 - 2C x 2			
ACP-51	NO.5 AIR CONT. PANEL		AWG # 14 - 2C x 4	(1 1/4")		
(TA 51)	NO.5 G. B LUB OIL TEMP.		AWG # 14 - 2C	(1/2")		
(TA 52)	NO.5 PUMP BEARING TEMP.		AWG # 14 - 3C			
(P 51)	NO.5 PRIMING DETECTOR					
(P 52)	NO.5 SUCTION PIT LEVEL					
(M 5)	NO.5 RAW WATER SV.		AWG # 14 - 5C	(3/4")		
(SV 51)	NO.5 CLEAR WATER SV.		AWG # 14 - 2C	(1/2")		
(FS 51)	NO.5 COOLING W. FLOW SWITCH					
(PS 51)	NO.5 G. B LUB OIL PS.		AWG # 14 - 3C			
(SV 52)	NO.5 WATER SV.		AWG # 14 - 5C			

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
LCP-6	COMMON CONT. PANEL	NO.6 LOCAL CONT. PANEL	AWG ? 14 - 6C			
	NO.3 MAIN PUMP CONT. PANEL		AWG ? 14 - 25C			
ETB-61	NO.6 ENGINE T. B		AWG ? 14 - 3C x 2(1 1/4")			
	↓		AWG ? 14 - 2C x 2			
ACP-61	NO.6 AIR CONT. PANEL		AWG ? 14 - 2C x 4(1 1/4")			
Ⓜ <sub>61</sub>	NO.6 G. B LUB OIL TEMP.		AWG ? 14 - 2C (1/2")			
Ⓜ <sub>62</sub>	NO.6 PUMP BEARING TEMP.		AWG ? 14 - 3C			
Ⓞ <sub>61</sub>	NO.6 PRIMING DETECTOR					
Ⓞ <sub>62</sub>	NO.6 SUCTION PIT LEVEL					
Ⓢ <sub>61</sub>	NO.6 RAW WATER SV.		AWG ? 14 - 5C (3/4")			
Ⓢ <sub>62</sub>	NO.6 CLEAR WATER SV.		AWG ? 14 - 2C (1/2")			
Ⓢ <sub>63</sub>	NO.6 COOLING W. FLOW SWITCH					
Ⓢ <sub>64</sub>	NO.6 G. B LUB OIL PS.		AWG ? 14 - 3C			
Ⓢ <sub>65</sub>	NO.6 WATER SV.		AWG ? 14 - 5C			
LCP-7	COMMON CONT. PANEL	NO.7 LOCAL CONT. PANEL	AWG ? 14 - 10C			
ETB-71	NO.7 ENGINE T. B		AWG ? 14 - 3C x 3(1 1/4")			
	↓		AWG ? 14 - 2C x 2			
ACP-71	NO.7 AIR CONT. PANEL		AWG ? 14 - 2C x 4(1 1/4")			
Ⓜ <sub>71</sub>	NO.7 G. B LUB OIL TEMP.		AWG ? 14 - 2C (1/2")			
Ⓜ <sub>72</sub>	NO.7 PUMP BEARING TEMP.		AWG ? 14 - 3C			
Ⓞ <sub>71</sub>	NO.7 PRIMING DETECTOR					
Ⓞ <sub>72</sub>	NO.7 SUCTION PIT LEVEL					
Ⓢ <sub>71</sub>	NO.7 RAW WATER SV.		AWG ? 14 - 5C (3/4")			
Ⓢ <sub>72</sub>	NO.7 CLEAR WATER SV.		AWG ? 14 - 2C (1/2")			
Ⓢ <sub>73</sub>	NO.7 COOLING W. FLOW SWITCH					
Ⓢ <sub>74</sub>	NO.7 G. B LUB OIL PS.		AWG ? 14 - 3C			
Ⓢ <sub>75</sub>	NO.7 WATER SV.		AWG ? 14 - 5C			
LCP-8	COMMON CONT. PANEL	NO.8 LOCAL CONT. PANEL	AWG ? 14 - 10C			
ETB-81	NO.8 ENGINE T. B		AWG ? 14 - 3C x 3(1 1/4")			
	↓		AWG ? 14 - 2C x 2			
ACP-81	NO.8 AIR CONT. PANEL		AWG ? 14 - 2C x 4(1 1/4")			
Ⓜ <sub>81</sub>	NO.8 G. B LUB OIL TEMP.		AWG ? 14 - 2C (1/2")			
Ⓜ <sub>82</sub>	NO.8 PUMP BEARING TEMP.		AWG ? 14 - 3C			
Ⓞ <sub>81</sub>	NO.8 PRIMING DETECTOR					
Ⓞ <sub>82</sub>	NO.8 SUCTION PIT LEVEL					
Ⓢ <sub>81</sub>	NO.8 RAW WATER SV.		AWG ? 14 - 5C (3/4")			
Ⓢ <sub>82</sub>	NO.8 CLEAR WATER SV.		AWG ? 14 - 2C (1/2")			
Ⓢ <sub>83</sub>	NO.8 COOLING W. FLOW SWITCH					
Ⓢ <sub>84</sub>	NO.8 G. B LUB OIL PS.		AWG ? 14 - 3C			
Ⓢ <sub>85</sub>	NO.8 WATER SV.		AWG ? 14 - 5C			

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
Ⓢ <sub>11</sub>	NO.1 GENERATOR STOP SV	NO.1 GENERATOR PANEL	AWG ? 14 - 2C	(1/2")		
Ⓢ <sub>12</sub>	NO.1 GENERATOR C. W. SV	↓				
Ⓢ <sub>21</sub>	NO.2 GENERATOR STOP SV	NO.2 GENERATOR PANEL				
Ⓢ <sub>22</sub>	NO.2 GENERATOR C. W. SV	↓				
Ⓢ <sub>31</sub>	NO.1 GENERATOR A. PS	COMMON CONT. PANEL	AWG ? 14 - 2C	(1/2")		
Ⓢ <sub>32</sub>	↓					
Ⓢ <sub>41</sub>	NO.2 GENERATOR A. PS	↓		(1/2")		
Ⓢ <sub>42</sub>	↓					
Ⓢ <sub>51</sub>	FUEL OIL TRANSFER SV	COMMON CONT. PANEL	AWG ? 14 - 2C	(1/2")		
Ⓞ <sub>1</sub>	FUEL OIL SERVICE T. LEVEL	COMMON CONT. PANEL	AWG ? 14 - 3C	(1/2")		
	↓		AWG ? 14 - 2C			
Ⓢ <sub>61</sub>	C. W. PIT TEMP. SWITCH	↓				
Ⓞ <sub>2</sub>	C. W. PIT LEVEL		AWG ? 14 - 3C			
Ⓞ <sub>3</sub>	C. W. TANK LEVEL		AWG ? 14 - 2C			
	↓		AWG ? 14 - 3C			
Ⓞ <sub>4</sub>	DRAIN PIT LEVEL	↓	AWG ? 14 - 2C			
Ⓢ <sub>71</sub>	SUCTION PIT LEVEL	COMMON CONT. PANEL	AWG ? 14 - 2C	(1/2")		
Ⓢ <sub>72</sub>	DISCHARGE PIT LEVEL	COMMON CONT. PANEL	AWG ? 14 - 2C	(1/2")		
Ⓢ <sub>81</sub>	FUEL OIL TRANSFER SV	COMMON CONT. PANEL	AWG ? 14 - 2C	(1/2")		
Ⓞ <sub>5</sub>	FUEL OIL SERVICE T. LEVEL	COMMON CONT. PANEL	AWG ? 14 - 2C x (1/2") x 3			

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
	NO.1 TRASH RAKE CONT. PANEL	MOTOR CONTROL CENTER	600V CV 60 <sup>□</sup> - 3C	(54)		
	NO.2 ↓		600V CV 38 <sup>□</sup> - 3C			
	NO.1 FLOOD GATE CONT. PANEL		AWG #8 - 3C	(1")		
	NO.2 ↓					
	NO.3 ↓		AWG #8 - 3C			
(M 43)	NO.1 FLOOD GATE	NO.1 FLOOD GATE CONT. PANEL	AWG #12 - 3C	(3/4")		2.6kW
(M 44)	NO.2 ↓	NO.2 ↓				
(M 57)	NO.3 ↓	NO.3 ↓				
(LS 43)	NO.1 FLOOD GATE L. S.	NO.1 FLOOD GATE CONT. PANEL	AWG #14 - 10C	(1 1/4")		
(LS 44)	NO.2 ↓	NO.2 ↓				
(LS 57)	NO.3 ↓	NO.3 ↓				
	NO.1 FLOOD GATE CONT. PANEL	COMMON CONT. PANEL	AWG #14 - 12C	(1 1/4")		
	NO.2 ↓					
	NO.3 ↓					
(M A)	NO.1 TRASH RAKE	NO.1 TRASH RAKE CONT. PANEL	600V CV 3.5 <sup>□</sup> - 3C	(22)	IV 3.5 <sup>□</sup>	3.7kW
(M B)	NO.2 ↓					
(M C)	NO.3 ↓					
(M D)	NO.4 ↓					
(M E)	NO.5 ↓					
(M F)	NO.6 ↓					
(TS A)	NO.1 TRASH RAKE T. S.	NO.1 TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 2C	(22)		
(TS B)	NO.2 ↓					
(TS C)	NO.3 ↓					
(TS D)	NO.4 ↓					
(TS E)	NO.5 ↓					
(TS F)	NO.6 ↓					
(LS A)	NO.1 TRASH RAKE L. S.	NO.1 TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 10C	(28)		
(LS B)	NO.2 ↓					
(LS C)	NO.3 ↓					
(LS D)	NO.4 ↓					
(LS E)	NO.5 ↓					
(LS F)	NO.6 ↓					
PBS - A	NO.1 TRASH RAKE PBS	TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 10C	(28)		
PBS - B	NO.2 ↓					
PBS - C	NO.3 ↓					
PBS - D	NO.4 ↓					
PBS - E	NO.5 ↓					
PBS - F	NO.6 ↓					

SYMBOL	FROM	TO	CABLE SPEC.	CONDUIT PIPE	GROUNDING WIRE	REMARKS
(M G)	NO.7 TRASH RAKE	NO.2 TRASH RAKE CONT. PANEL	600V CV 3.5 <sup>□</sup> - 3C	(22)	IV 3.5 <sup>□</sup>	3.7kW
(M H)	NO.8 ↓					2.2kW
(M I)	H. CONVEYOR					3.7kW
(M J)	I. CONVEYOR					0.75kW
(M K)	NO.1 HOPPER					
(M L)	NO.2 ↓					
(M M)	DRAINAGE PUMP					
(LS G)	NO.7 TRASH RAKE T. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 2C	(22)		
(LS H)	NO.8 ↓					
(LS I)	NO.7 TRASH RAKE L. S.					
(LS J)	NO.8 ↓					
(LS K)	NO.1 HOPPER L. S.		CVV 2 <sup>□</sup> - 6C			
(LS L)	NO.2 ↓					
PBS - G	NO.7 TRASH RAKE P. B. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 10C	(28)		
PBS - H	NO.8 ↓					
PBS - I	H. CONVEYOR P. B. S.					
PBS - J	I. CONVEYOR P. B. S.					
PBS - K	HOPPER P. B. S.					
ELS - A	H. CONVEYOR E. ST. L. S.	NO.2 TRASH RAKE CONT. PANEL	CVV 2 <sup>□</sup> - 2C	(22)		
ELB - B	I. CONVEYOR E. ST. L. S.					



Name of Project	The Project for Metro Manila Drainage System Urgent Improvement / Upgrading	Drawing No.	81
Name of Drawings	Tripa de Gallina Drainage Pumping Station Existing Single Line Diagram	Scale	-
		Date	Sep., 2007
: Japan International Cooperation Agency			