



Jardine Engineering Co., Ltd.

REF. No. **RFA-GEN/JEC/PAC/M&E/089**

PROJECT GAYSORN 2

Date 16/3/2017

Expect Return Date 23/3/2017

Request for Approval Of GENERAL

Subject : **INSPECTION FOR SUBMERSIBLE PUMP SYSTEM TEST & COMMISSIONING**

To : Project Alliance Co., Ltd.

Attn : Khun Thanadit Musikamas
Project Manager

Attachment : N-5-13-2, N6-08, N6-09, N6-07, N5-12, N5-13-3, N5-31

Project Alliance Co., Ltd.

Received By : [Signature]

Date 16/03/16

Time 10.00

(ขนาด A3 จำนวน 7 แผ่น)

Forwarded for ☐ your comment ☐ other

INSPECTION FOR SUBMERSIBLE DRAINAGE PUMP SYSTEM TEST & COMMISSIONING

Signed [Signature]

(Mr. Suthat Sathitsin)

(Project Manager)

To _____

Forwarded for ☐ your comment ☐ other

Signed _____
(_____)
...../...../.....

To Project Alliance Co., Ltd.

☐ approved ☐ approved as note
☐ not approved (see below reasons) ☐ acknowledge

Signed _____
(_____)
...../...../.....

To (Company)

☒ approved ☐ approved as note ☐ acknowledge ☐ not approved ☐ to be re-submitted
(see above/below comments) (see above/below comments)

Signed [Signature]
(Mr. Thanadit Musikamas)
27-03-16

Copies to

☐ Other Contractors _____ ☒ Designers MTL ☒ Owner ☐ _____ ☐ _____ ☐ _____

Approved does not relieve contractors from complying to contracts. การอนุมัติไม่ทำให้ผู้รับจ้างพ้นความรับผิดชอบที่จะต้องปฏิบัติตามสัญญา

SUBMERSIBLE & EJECTOR PUMP

Equipment List

Project : GAYSORN 2 OFFICE AND RETAIL BUILDING

Machine Code	Specification	Q'TY	Electric Power			Model	Brand	Remark
			Phase	Volt	Kw.			
✓ SP - 01	SUBMERSIBLE PUMP CAP : 0.08m ³ /min. (5 m ³ /hr.) X 5 M.	1	1	220	0.25	CN40T - P40	ShinMaywa	No. 1592-522
✓ EQP - 01, 02	SUBMERSIBLE PUMP CAP : 0.24 m ³ /min. (14 m ³ /hr.) X 10 M.	2	3	380	1.5	CN651 - P65	ShinMaywa	No. 1590-115 No. 1590-109
✓ DP - 09	SUBMERSIBLE PUMP CAP : 0.24 m ³ /min. (14 m ³ /hr.) X 10 M.	1	3	380	1.5	CN651 - P65	ShinMaywa	No. 1590-125
✓ SWP - 01, 02	SUBMERSIBLE PUMP CAP : 0.34 m ³ /min. (20 m ³ /hr.) X 10 M.	2	3	380	1.5	CN651 - P65	ShinMaywa	No. 1590-127 No. 1590-114
✓ SLP - 01, 02	SUBMERSIBLE PUMP CAP : 0.60 m ³ /min. (36 m ³ /hr.) X 10 M.	2	3	380	2.2	CN80 - P80B	ShinMaywa	No. 1533-564 No. 1533-562
✓ DP - 01, 02	SUBMERSIBLE PUMP CAP : 0.17 m ³ /min. (10 m ³ /hr.) X 20 M.	2	3	380	3.7	CN80 - P80B	ShinMaywa	No. 1589-516 No. 1583-517

Equipment List

Project : GAYSORN 2 OFFICE AND RETAIL BUILDING

✓ DP - 03, 04	SUBMERSIBLE PUMP CAP : 0.17 m ³ /min. (10 m ³ /hr.) X 20 M.	2	3	380	3.7	CN80 - P80B	ShinMaywa	No. 1583-518 No. 1583-514
✓ DP - 10	SUBMERSIBLE PUMP CAP : 0.17 m ³ /min. (10 m ³ /hr.) X 20 M.	1	3	380	3.7	CN80 - P80B	ShinMaywa	No. 1583-525
✓ DP - 05, 06, 07, 08	SUBMERSIBLE PUMP CAP : 2.4 m ³ /min. (144 m ³ /hr.) X 10 M.	4	3	380	7.5	CN150 - P150	ShinMaywa	No. 1582-404 No. 1539-500 No. 1539-501 No. 1539-502
EJ - 09	SUBMERSIBLE EJECTOR PUMP CAP : 8 min ³ /hr. X 2.5 M.	1	3	380	0.75	JA750V	ShinMaywa	No. 1530-853
✓ EJ - 01, 02	SUBMERSIBLE EJECTOR PUMP CAP : 50 min ³ /hr. X 3.5 M.	2	3	380	3.7	JA372	ShinMaywa	No. 1583-535 No. 1583-536
✓ EJ - 03, 04, 05, 06	SUBMERSIBLE EJECTOR PUMP CAP : 4.50 Kg O2/hr. X 3.5 M.	4	3	380	3.7	JA372	ShinMaywa	No. 1583-543 No. 1583-546 No. 1583-545 No. 1583-548
✓ EJ - 07, 08	SUBMERSIBLE EJECTOR PUMP CAP : 60 min ³ /hr. X 3 M.	2	3	380	3.7	JA372	ShinMaywa	No. 1583-539 No. 1583-534



**INSPECTION FOR SUBMERIBLE PUMP
SYSTEM TEST & COMMISSSSSIONING**

Ref. No. :
Rev. : 00
Date of Issued :

Project : GAYSORN 2
Main Contractor : -
Building Services : -

Area/Floor :
Ref. Dwg. No. :
Document Running No. :
Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : SP-01	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN40T-P40	Model : CN40T	
Serail No. : 1592-522	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (5 m3/hr) 0.08 m3/min	✓			
	Stage : Single Head : 5 m.	✓			
	Discharge Dia : 50 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 0.25 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 1	✓			
	Speed : 2,900 rpm Voltage : 220 V	✓			
MCC	Circuit Breaker Rating : 2.5-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual	Am Meter	Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	3.16	3.17	3.18	-	3.20	3.16	3.18			
Voltage	220/50	392	390	390	220/50	392	390	390	Volt Meter		

RESULT :

COMMENT :

Performed by: JEC Name : <u>สมิทธิ ใจดี</u> Date : <u>14/3/17</u>	Witnessed by: Name : <u>อัครินทร์ นพคุณ</u> Date : <u>14/03/17</u>	Approved by: PAC Name : <u>ทำเนิรศักดิ์ บิสร</u> Date : <u>14/03/17</u>
--	---	--

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : EQP-01	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN651-P65	Model : CN651	
Serail No. : 1590-115	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (14 m3/hr) 0.24 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 65 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 1.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 2.5-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	3.18	3.15	3.20	-	3.12	3.12	3.18	Am Meter	Socomec Diris A20	
Voltage	380/50	390	390	390	380/50	395	395	395	Volt Meter		

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : สมชาย ใจดี

Name : สก๊อต นอวเรอัม

Name : จำเริญศักดิ์ สิลล

Date : 14/03/2017

Date : 14/03/17

Date : 14/03/17

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : EQP-02	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN651-P65	Model : CN651	
Serail No. : 1590-109	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (14 m3/hr) 0.24 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 65 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 1.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 25-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual						
		R-S	S-T	T-R		R-S	S-T	T-R				
Amparage	-	2.85	2.80	2.85	-	2.95	2.97	3.0	Am Meter	Socomec	Diris A20	
Voltage	380/50	393	395	394	380/50	393	396	394	Volt Meter			

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : สมชาย ใจดีName : สมชาย ใจดีName : สมชาย ใจดีDate : 14/03/2019Date : 14/03/17Date : 14/03/17

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-09	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN651-P65	Model : CN651	
Serail No. : 1590-125	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (14 m3/hr) 0.24 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 65 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 1.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 2.5-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R	Socomec	Diris A20	
Amparage	-	3.12	3.14	3.15	-	3.12	3.12	3.16			
Voltage	380/50	390	390	390	380/50	392	392	392			

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : ชนกันต์ นิลพัชร์

Name : ชนกันต์ นิลพัชร์

Name : จำเริญศักดิ์ ภิรมย์

Date : 14/03/2017

Date : 14/03/17

Date : 14/03/17

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERSIBLE DRAINAGE PUMP

Specification

Type : SUBMERSIBLE PUMP	Type : Motor	Type : MCC
Machine Code : SWP-01	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN651-P65	Model : CN651	
Serail No. : 1590-127	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERSIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (20 m3/hr) 0.34 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 1.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 2.5-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	3.15	3.16	3.18	-	3.14	3.14	3.16	Am Meter	Socomec Diris A20	
Voltage	380/50	391	391	392	380/50	390	392	391	Volt Meter		

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : สมชาย ใจดีName : สมชาย ใจดีName : สมชาย ใจดีDate : 14 / 3 / 2017Date : 14 / 03 / 17Date : 14 / 03 / 17

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : SWP-02	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN651-P65	Model : CN651	
Serail No. : 1590-114	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (20 m3/hr) 0.34 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 1.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 2.5-4 A	✓			
	Overload Range : 2.5-4 A	✓			
	Fuse Rating : 6 A Overload Setting : 4 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	3.14	3.12	3.14		3.12	3.16	3.14	Am Meter	Socomec Diris A20	
Voltage	380/50	391	394	395	380/50	390	391	392	Volt Meter		

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : *[Signature]*Name : *[Signature]*Name : *[Signature]*

Date : 14/3/2017

Date : 14/03/17

Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. :
		Rev. : 00
	Date of Issued :	

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP		
Specification		
Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : SLP-01	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1533-564	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP					
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (36 m3/hr) 0.60 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 2.20 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

TEST DATA													
Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual							
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	4.5	4.6	4.7	-	4.7	4.8	4.6	Am Meter	Socomec	Diris A20		
Voltage	380/50	397	397	397	380/50	395	394	396	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC Name : Date : 14/3/17	Witnessed by: Name : Date : 14/03/17	Approved by: PAC Name : Date : 14/03/17
--	---	--

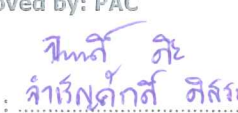
	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. : Rev. : 00 Date of Issued :
---	--	---

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP		
Specification		
Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : SLP-02	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1533-562	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP					
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (36 m3/hr) 0.60 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 2.20 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

TEST DATA													
Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual							
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	4.2	4.3	4.4		4.5	4.4	4.4	Am Meter	Socomec	Diris A20		
Voltage	380/50	396	398	397	380/50	395	398	397	Volt Meter				

RESULT :		
COMMENT :		
Performed by: JEC  Name : Date : 14/03/17	Witnessed by:  Name : Date : 14/03/17	Approved by: PAC  Name : Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. : Rev. : 00 Date of Issued :
---	--	---

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification		
Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-01	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1589-516	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

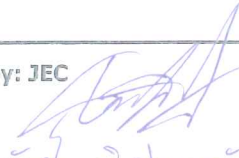
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (10 m3/hr) 0.17 m3/min	✓			
	Stage : Single Head : 20 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 3.70 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

TEST DATA

TEST DATA													
Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	7.1	7.2	7.3	-	7.2	7.1	7.3	Am Meter				
Voltage	380/50	394	395	395	380/50	390	393	391	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC  Name : <u>นายวิชาญ ใจดี</u> Date : <u>14/03/17</u>	Witnessed by:  Name : <u>นายวิชาญ ใจดี</u> Date : <u>14/03/17</u>	Approved by: PAC  Name : <u>นายวิชาญ ใจดี</u> Date : <u>14/03/17</u>
--	--	---



JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERSIBLE DRAINAGE PUMP

Specification

Type : SUBMERSIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-03	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1583-518	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERSIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (10 m3/hr) 0.17 m3/min	✓			
	Stage : Single Head : 20 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 3.70 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual							
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	6	6.3	6.3	-	6.2	6.3	6.4	Am Meter	Socomec	Diris A20		
Voltage	380/50	394	395	396	380/50	392	394	394	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC

Name : 

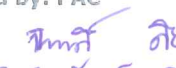
Date : 14/03/17

Witnessed by:

Name : 

Date : 14/03/17

Approved by: PAC

Name : 

Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. :
		Rev. : 00
		Date of Issued :

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-04	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1583-514	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (10 m3/hr) 0.17 m3/min	✓			
	Stage : Single Head : 20 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 3.70 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

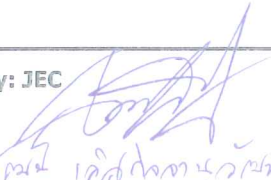
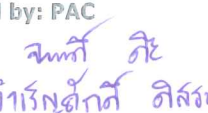
TEST DATA

Commissioning Standard :

Electrical	Start-up			Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual						
		R-S	S-T	T-R		R-S	S-T	T-R				
Amparage	-	6.1	6.2	6.3	-	6.2	6.2	6.3	Am Meter	Socomec	Diris A20	
Voltage	380/50	394	393	391	380/50	391	393	392	Volt Meter			

RESULT :

COMMENT :

Performed by: JEC  Name : Date : 14/03/17	Witnessed by:  Name : Date : 14/03/17	Approved by: PAC  Name : Date : 14/03/17
--	--	---

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSIONING	Ref. No. :
		Rev. : 00
		Date of Issued :

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP		
Specification		
Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-10	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN80-P80B	Model : CN80	
Serail No. : 1583-525	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP					
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (10 m3/hr) 0.17 m3/min	✓			
	Stage : Single Head : 20 m.	✓			
	Discharge Dia : 80 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 3.70 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 6-10 A	✓			
	Overload Range : 6-10 A	✓			
	Fuse Rating : 6 A Overload Setting : 8 A	✓			

TEST DATA									
Commissioning Standard :									
Electrical	Start-up				Running				Test Instrument
	Design	Actual			Design	Actual			
		R-S	S-T	T-R		R-S	S-T	T-R	
Amparage	-	7.1	6.4	6.4	-	6.5	6.6	6.7	Am Meter
Voltage	380/50	396	398	397	380/50	395	397	396	Volt Meter

RESULT :
COMMENT :

Performed by: JEC  Name : <u>สมเกียรติ เลิศดงกขวิทย์</u> Date : <u>14/03/17</u>	Witnessed by:  Name : <u>อัคริณ พงษ์ประพัฒน์</u> Date : <u>14/03/17</u>	Approved by: PAC  Name : <u>จำเริญศักดิ์ ธิชนะ</u> Date : <u>14/03/17</u>
--	--	--

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-05	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN150-P150	Model : CN150	
Serail No. : 1582-404	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (144 m3/hr) 2.40 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 150 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 7.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 13-18 A	✓			
	Overload Range : 13-18 A	✓			
	Fuse Rating : 6 A Overload Setting : 16 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	9.2	9.2	9.3	-	12.8	13.1	13.1	Am Meter	Socomec	Diris A20
Voltage	380/50	398	398	399	380/50	397	399	398	Volt Meter		

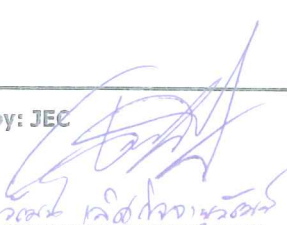
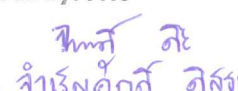
RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : Name : Name : 

Date : 14/03/17

Date : 14/03/17

Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. : Rev. : 00 Date of Issued :
---	--	---

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERSIBLE DRAINAGE PUMP

Specification		
Type : SUBMERSIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-06	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN150-P150	Model : CN150	
Serail No. : 1539-500	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERSIBLE DRAINAGE PUMP

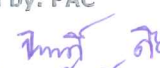
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (144 m3/hr) 2.40 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 150 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 7.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 13-18 A	✓			
	Overload Range : 13-18 A	✓			
	Fuse Rating : 6 A Overload Setting : 16 A	✓			

TEST DATA

TEST DATA													
Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	9.1	9.3	9.2	-	12.7	13.1	13.0	Am Meter				
Voltage	380/50	400	399	398	380/50	397	399	397	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC  Name : <u>ชวรัตน์ ใจดี</u> Date : <u>14/03/17</u>	Witnessed by:  Name : <u>ศักดิ์สิทธิ์ อวตาร</u> Date : <u>14/03/17</u>	Approved by: PAC  Name : <u>จำเริญศักดิ์ สีสะ</u> Date : <u>14/03/17</u>
---	---	---



JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERSIBLE DRAINAGE PUMP

Specification

Type : SUBMERSIBLE PUMP	Type : Motor	Type : MCC
Machine Code : DP-08	Frame : Gray Cast Iron	Manufacturer : Schneider Electric
Model : CN150-P150	Model : CN150	
Serail No. : 1539-502	Manufacturer : ShinMaywa	
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERSIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Non-Clog Type Abrasion Resistant Cast Iron	✓			
	Seal Type : Double Mechanical Seal	✓			
	Flow Rate : (144 m3/hr) 2.40 m3/min	✓			
	Stage : Single Head : 10 m.	✓			
	Discharge Dia : 150 mm. Speed : 2,900 rpm	✓			
MOTOR	Power : 7.50 Kw Frequency : 50 Hertz	✓			
	Pole : 2 Phase : 3	✓			
	Speed : 2,900 rpm Voltage : 380 V	✓			
MCC	Circuit Breaker Rating : 13-18 A	✓			
	Overload Range : 13-18 A	✓			
	Fuse Rating : 6 A Overload Setting : 16 A	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	14.2	14.6	14.6	-	14.3	14.4	14.5	Am Meter	Socomec Diris A20	
Voltage	380/50	395	397	396	380/50	396	398	397	Volt Meter		

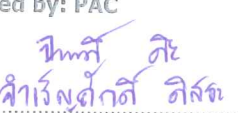
RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : Name : Name : 

Date : 14 / 2 / 17

Date : 14 / 03 / 17

Date : 14 / 03 / 17

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE EJECTOR PUMP

Machine Code : EJ-09

Model : JA750V

Serail No. : 1530-853

Manufacturer : ShinMaywa

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Flow Rate : 8 m ³ /hr	✓			
	Stage : Single	✓			
	Head : 2.5 m.	✓			
	Discharge Dia : 70 mm.	✓			
	Power : 0.75 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4	✓			
	Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	4.3	4.5	4.6	-	4.3	4.5	4.5	Am Meter				
Voltage	380/50	400	401	400	380/50	401	403	401	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : ชัยวัฒน์ วัฒนวิเศษ

Name : ชัยวัฒน์ วัฒนวิเศษ

Name : จำเริญศักดิ์ สิทธิ

Date : 14/3/17

Date : 14/03/17

Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. :
		Rev. : 00
	Date of Issued :	

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP
Specification

Type : SUBMERIBLE EJECTOR PUMP		
Machine Code : EJ-01		
Model : JA372V		
Serail No. : 1583-535		
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP
--

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 50 m3/hr	✓			
	Stage : Single	✓			
	Head : 3.5 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA
Commissioning Standard :

Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	7.2	7.4	7.5	-	7.2	7.4	7.5	Am Meter				
Voltage	380/50	400	403	401	380/50	400	403	400	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC Name : Date : 14/03/17	Witnessed by: Name : Date : 14/03/17	Approved by: PAC Name : Date : 14/03/17
---	---	--



JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE EJECTOR PUMP

Machine Code : EJ-03

Model : JA372V

Serial No. : 1583-543

Manufacturer : ShinMaywa

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 4.5 Kg O2/hr.	✓			
	Stage : Single	✓			
	Head : 3.5 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R <td></td>					
Amparage	-	4.72	4.72	4.77	-	4.73	4.74	4.75	Am Meter				
Voltage	380/50	400	402	400	380/50	401	403	401	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name :

Name :

Name :

Date :

Date :

Date :

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE EJECTOR PUMP

Machine Code : EJ-04

Model : JA372V

Serail No. : 1583-546

Manufacturer : ShinMaywa

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 4.5 Kg O2/hr.	✓			
	Stage : Single	✓			
	Head : 3.5 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up			Running			Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual					
		R-S	S-T	T-R		R-S	S-T	T-R			
Amparage	-	4.70	4.72	4.73	-	4.68	4.71	4.71	Socomec	Diris A20	
Voltage	380/50	399	401	400	380/50	400	403	401			

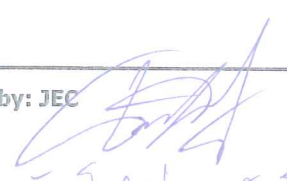
RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

Approved by: PAC

Name : Name : Name : 

Date : 14/03/17

Date : 14/03/17

Date : 14/03/17

	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. :
		Rev. : 00
	Date of Issued :	

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP		
Specification		
Type : SUBMERSIBLE EJECTOR PUMP		
Machine Code : EJ-05		
Model : JA372V		
Serail No. : 1583-545		
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERISIBLE DRAINAGE PUMP					
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 4.5 Kg O2/hr.	✓			
	Stage : Single	✓			
	Head : 3.5 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA													
Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	4.74	4.86	4.77	-	4.71	4.80	4.74	Am Meter				
Voltage	380/50	398	400	399	380/50	397	399	398	Volt Meter				

RESULT :		
COMMENT :		
Performed by: JEC Name : Date : 14/03/17	Witnessed by: Name : วิศวกร นายอรรถวิทย์ Date : 14/03/17	Approved by: PAC Name : จำเริญศักดิ์ สีสระ Date : 14/03/17



	INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSSSIONING	Ref. No. : _____ Rev. : 00 Date of Issued : _____
---	--	---

Project : GAYSORN 2 Main Contractor : - Building Services : -	Area/Floor : Ref. Dwg. No. : Document Running No. : Date of Performed :
--	--

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification		
Type : SUBMERIBLE EJECTOR PUMP		
Machine Code : EJ-07		
Model : JA372V		
Serail No. : 1583-539		
Manufacturer : ShinMaywa		

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

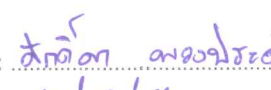
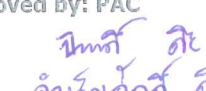
ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 60 m3/min	✓			
	Stage : Single	✓			
	Head : 3 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA

Commissioning Standard :													
Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	-	7.2	7.35	7.29	-	7.23	7.32	7.29					Am Meter
Voltage	380/50	397	400	398	380/50	397	400	398	Volt Meter				

RESULT :

COMMENT :

Performed by: JEC  Name : Date : 14/3/17	Witnessed by:  Name : Date : 14/03/17	Approved by: PAC  Name : Date : 14/03/17
---	--	---

JEC

INSPECTION FOR SUBMERIBLE PUMP SYSTEM TEST & COMMISSSIONING

Ref. No. :

Rev. : 00

Date of Issued :

Project : GAYSORN 2

Main Contractor : -

Building Services : -

Area/Floor :

Ref. Dwg. No. :

Document Running No. :

Date of Performed :

INSPECTION FOR SUBMERIBLE DRAINAGE PUMP

Specification

Type : SUBMERIBLE EJECTOR PUMP

Machine Code : EJ-08

Model : JA372V

Serail No. : 1583-534

Manufacturer : ShinMaywa

TEST REPORT FOR SUBMERIBLE DRAINAGE PUMP

ITEM	DESCRIPTION	RESULT			REMARKS
		PASSED	NOT PASSED	N / A	
PUMP	Type : Submersible Ejector W	✓			
	Seal Type : Gray Iron casting	✓			
	Flow Rate : 60 m3/min	✓			
	Stage : Single	✓			
	Head : 3 m.	✓			
	Discharge Dia : 145 mm.	✓			
	Power : 3.7 Kw	✓			
	Speed : 2,900 rpm	✓			
	Frequency : 50 Hertz	✓			
	Pole : 4 Phase : 3	✓			
	Voltage : 380 V	✓			

TEST DATA

Commissioning Standard :

Electrical	Start-up				Running				Test Instrument	Brand	Model	Range	REMARKS
	Design	Actual			Design	Actual				Socomec	Diris A20		
		R-S	S-T	T-R		R-S	S-T	T-R					
Amparage	—	7.4	7.65	7.59		7.42	7.60	7.59	Am Meter				
Voltage	380/50	349	400	398	380/50	398	400	399	Volt Meter				

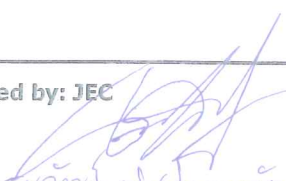
RESULT :

COMMENT :

Performed by: JEC

Witnessed by:

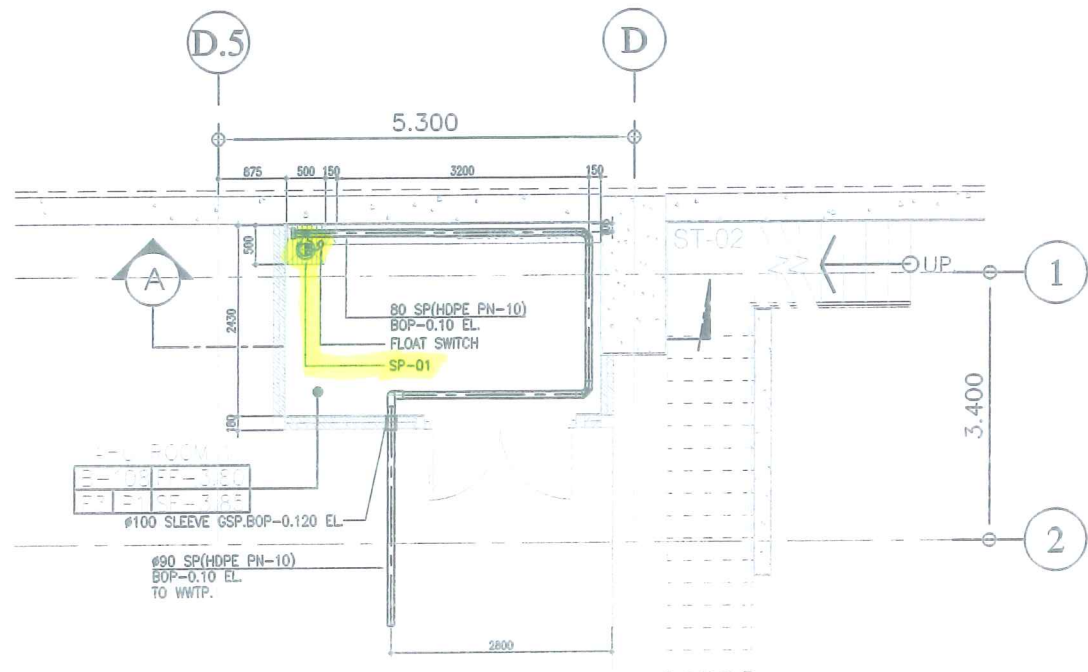
Approved by: PAC

Name : Name : Name : 

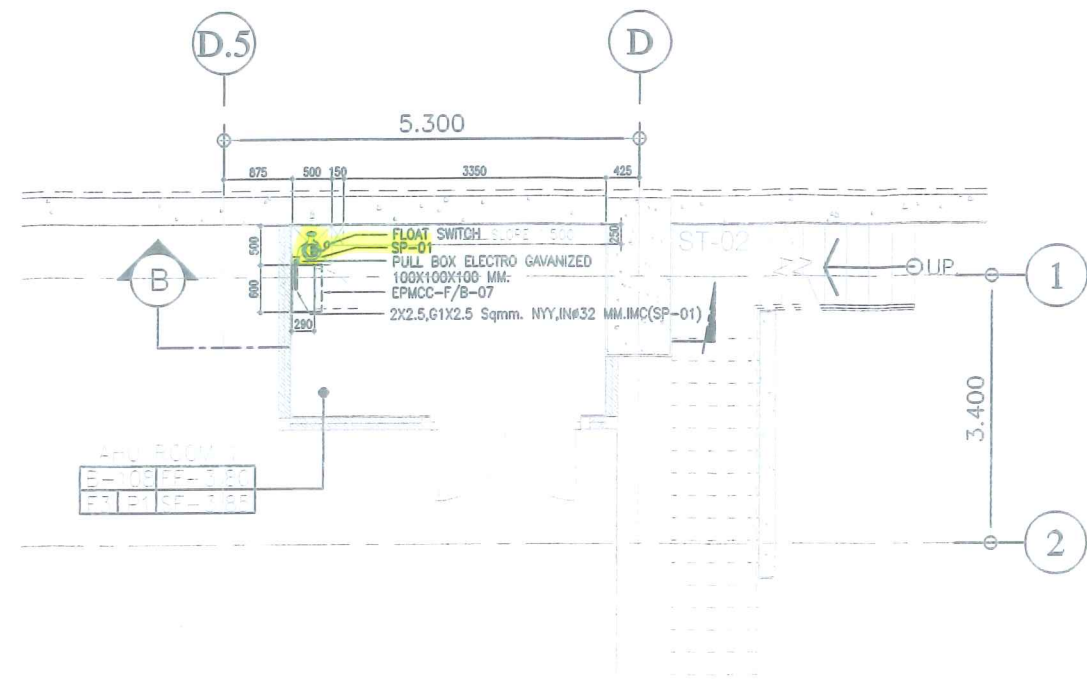
Date : 14/03/17

Date : 14/03/17

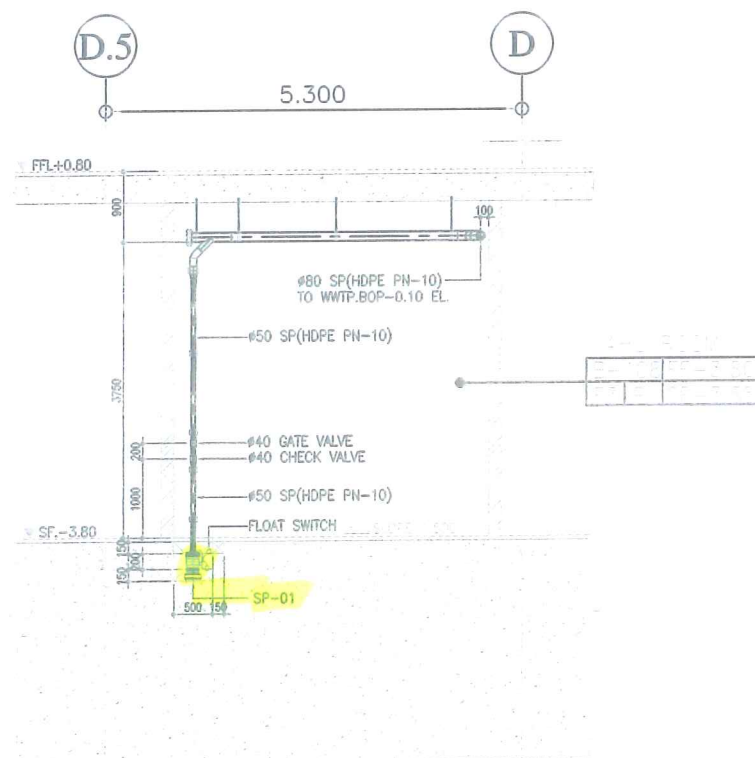
Date : 14/03/17



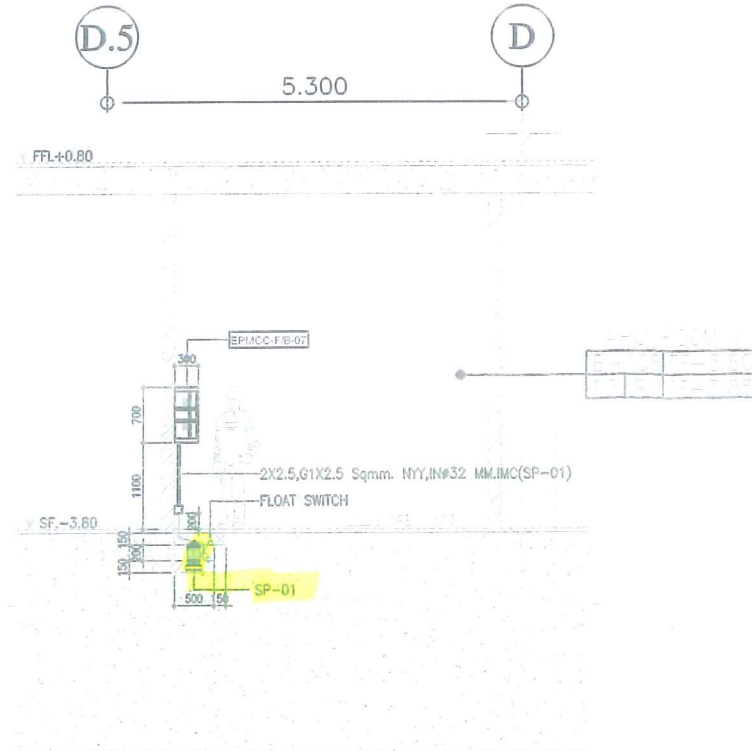
DETAILS SUMP PUMP 01
SCALE: 1:50



ELECTRICAL CONTROL FOR SUMP PUMP 01
SCALE: 1:50



SECTION-A
SCALE: 1:50



SECTION-B
SCALE: 1:50

PROJECT:

อาคารสำนักงานและ
ศูนย์การค้ากษร 2

OWNER:

Gaysom Asset Management Co., Ltd.

ARCHITECTS:

A49

CIVIL AND STRUCTURAL:

KCS

KCS & ASSOCIATES CO., LTD.

MEINHARDT

Co. Reg. No. 010653077010

LANDSCAPE:

L49

LANDSCAPE ARCHITECTS

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

ARCHITECTS:

BUILDING SERVICES CONTRACTOR:



Jardine Engineering Company Limited

204 Pong Pong Road, Bangkok 10110

Tel: 02-25454545, 02-25454545, 02-25454545

Fax: 02-25454545, 02-25454545, 02-25454545

WWW.JEC.CO.TH

SHOP DRAWING

REVISION

DESCRIPTION

DATE

FOR APPROVAL

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DRAWING TITLE

SUMP PUMP DETAILS-LB FLOOR

DRAWN: Rung C. JEC

PREPARED: Tawon L. JEC

CHECKED: Tawon W. JEC

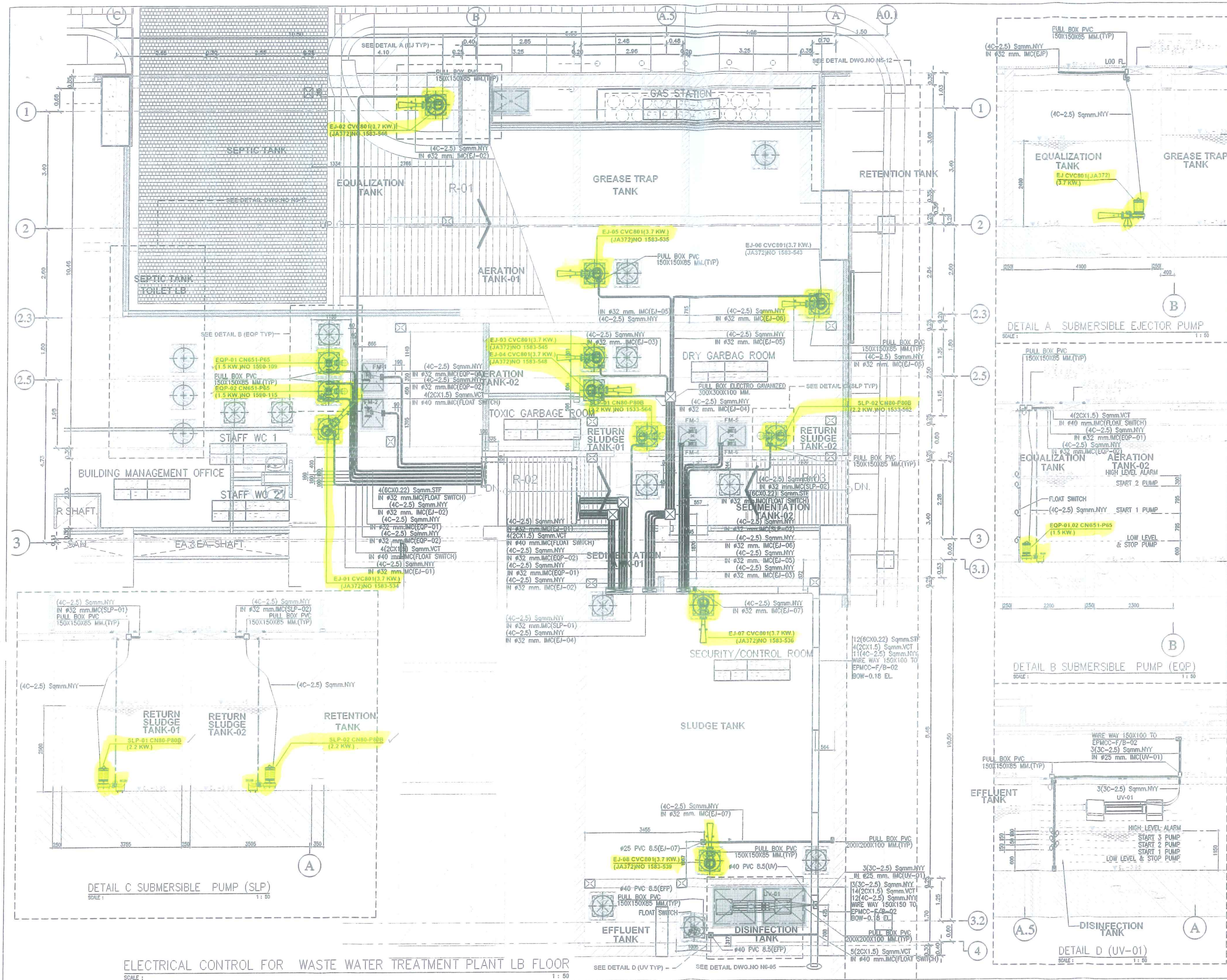
DATE: 03/08/15

SCALE: A1=1:50 / A3=1:100

REV: 00

DWG. NO.

N5-13-2



ELECTRICAL CONTROL FOR WASTE WATER TREATMENT PLANT LB FLOOR
SCALE: 1:50

PROJECT: อาคารสำนักงานและศูนย์การค้าเลขที่ 2

OWNER: Gaysom Asset Management Co., Ltd.

ARCHITECTS: A49

CIVIL AND STRUCTURAL: KCS

MECHANICAL: MEINHARDT

LANDSCAPE: L49

ARCHITECTS: บริษัท อักษร เอ็นจิเนียริ่ง จำกัด

STRUCTURAL ENGINEERS: บริษัท อักษร เอ็นจิเนียริ่ง จำกัด

ELECTRICAL ENGINEERS: บริษัท อักษร เอ็นจิเนียริ่ง จำกัด

MECHANICAL ENGINEERS: บริษัท อักษร เอ็นจิเนียริ่ง จำกัด

ENVIRONMENTAL ENGINEERS: บริษัท อักษร เอ็นจิเนียริ่ง จำกัด

BUILDING SERVICES CONTRACTOR: JEC

Jardine Engineering Company Limited

SHOP DRAWING

REVISED	DESCRIPTION	DATE
A	FOR APPROVAL	02/09/15
B	FOR APPROVAL	10/11/15
C	FOR APPROVAL	18/07/16

DRAWING TITLE: ELECTRICAL CONTROL FOR WASTE WATER TREATMENT

DRAWN: Rungroj C. JEC

PREPARED: Tanawat L. JEC

CHECKED: Tanawong W. JEC

DATE: 18/07/16

SCALE: A1=1:50 / A3=1:100

REV: 02

DWG. NO. N6-07

PROJECT:

อาคารสำนักงานและ
ศูนย์การค้าเลข 2

OWNER :

Gayson Asset Management Co., Ltd.

ARCHITECTS :

A49

51 Sukhumvit 25
BANGKOK 10110 THAILAND
T: 02-255 2255
F: 02-255 2277
E: a49@49.com
www.a49.com

CIVIL AND STRUCTURAL :

KCS

22nd Floor, Chuan Intra Tower II
222/227 The Petchaburi Road,
Bangkok, Huay Krung, Bangkok 10110
T: 0-2556-0184
F: 0-2556-0485
E: kcs_asea@kcs.com
www.kcs-asea.com

MEINHART

1555 New Petchaburi Road, Mainman
Petchaburi, Bangkok 10405, Thailand
Telephone: 0-2207-0507
Fax: 0-2207-0574
Email: meinhart@meinhart.com
www.meinhartgroup.com

LANDSCAPE :

L49

61 Sukhumvit 25
Bangkok 10110 THAILAND
T: 02-255 2255
F: 02-255 2277
E: l49@l49.com
www.l49group.com

ARCHITECTS :

สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404

STRUCTURAL ENGINEERS :

สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404

ELECTRICAL ENGINEERS :

สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404

MECHANICAL ENGINEERS :

สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404

ENVIRONMENTAL ENGINEERS :

สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404
สถาปนิก	นายสมชาย	083-404
วิศวกร	นายสมชาย	083-404

BUILDING SERVICES CONTRACTOR :

Jardine Engineering Company Limited
22nd Floor, Chuan Intra Tower II
222/227 The Petchaburi Road, Bangkok 10110
T: 02-255 2255
F: 02-255 2277
E: jec@jec.com
www.jec.com

AS-BUILT DRAWING

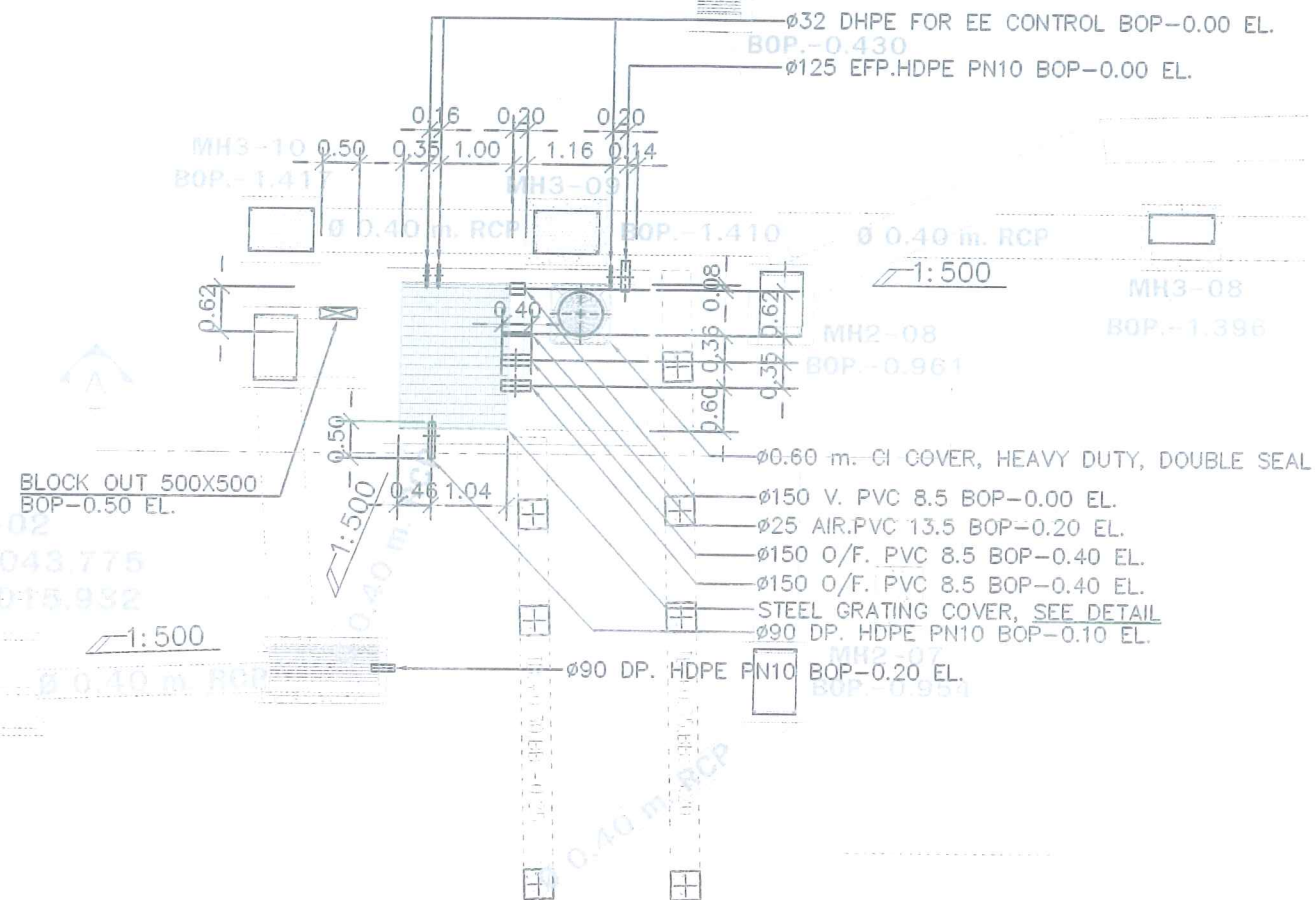
REVISION	DESCRIPTION	DATE
A	FOR APPROVAL	05/06/10
B	FOR APPROVAL	11/06/10

DRAWN BY :

SUMP PUMP DETAILS-100 FLOOR
(DP-09,EJ-09)

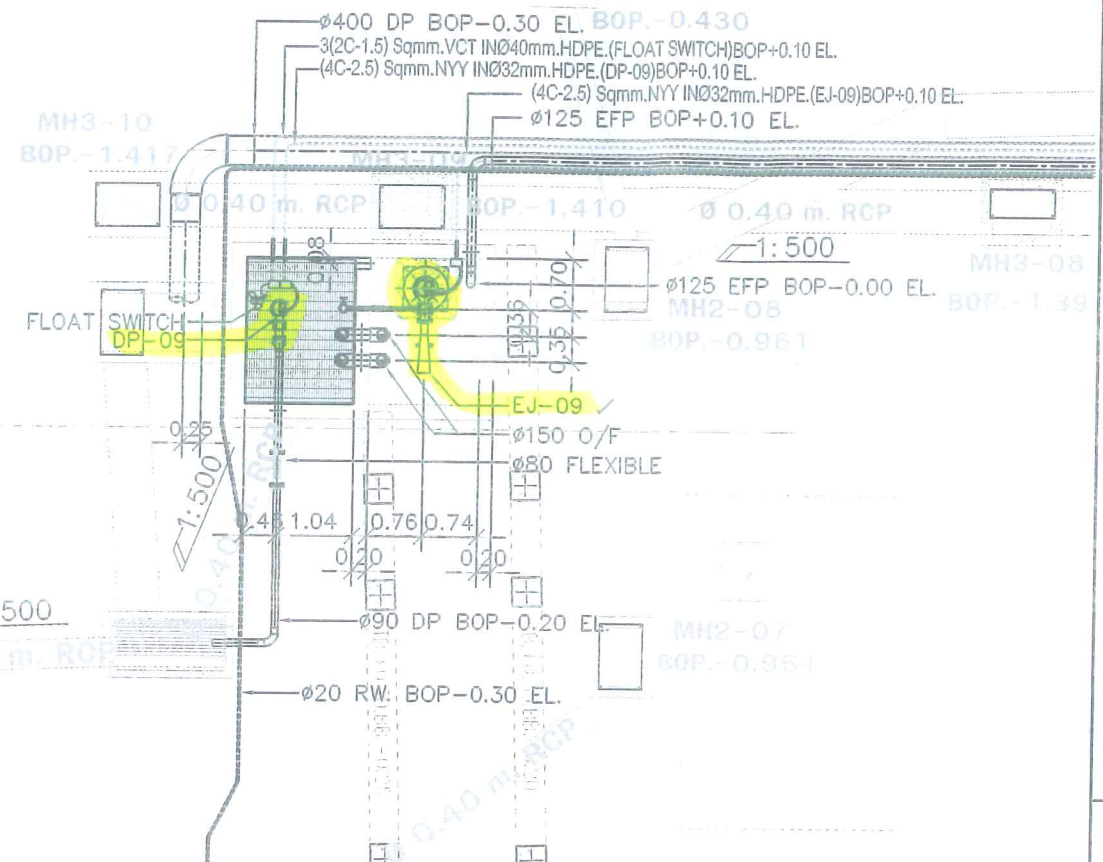
DRAWN :	Rungroj C.	JEC	DWG. NO.
PREPARED :	Tanawat L.	JEC	
CHECKED :	Tanawat W.	JEC	
DATE :	15/06/10		
SCALE :	A1 1:50 A3 1:100		
REV :	01		

N5-13-3



DETAIL SLEEVE SUMP PUMP (DP-09,JP-09)

SCALE : 1:50

BLOCK OUT 500X500
BOP-0.50 EL.SECTION-A
SCALE : 1:50

DETAIL SUMP PUMP (DP-09,JP-09)

SCALE : 1:50

0400 DP BOP-0.50 EL.

HIGH LEVEL
START DP-09

LOW LEVEL, CUT OFF DP-09

FLOAT SWITCH

032 GULDE PIPE GSP
DP-09 (CN65-1.5 KW)

PULL BOX PVC 150X150X85 MM.(TYP)

080 GATE VALVE

SILENCER

025 GATE VALVE

(4C-2.5) Sqmm.NYY IN032mm.HDPE.(EJ-09)BOP+0.10 EL.

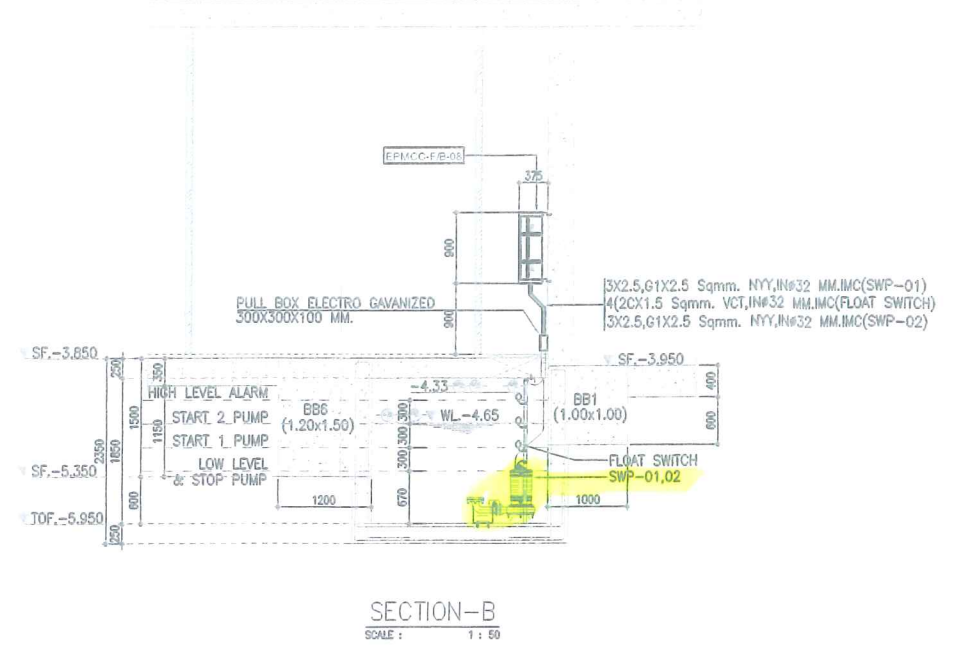
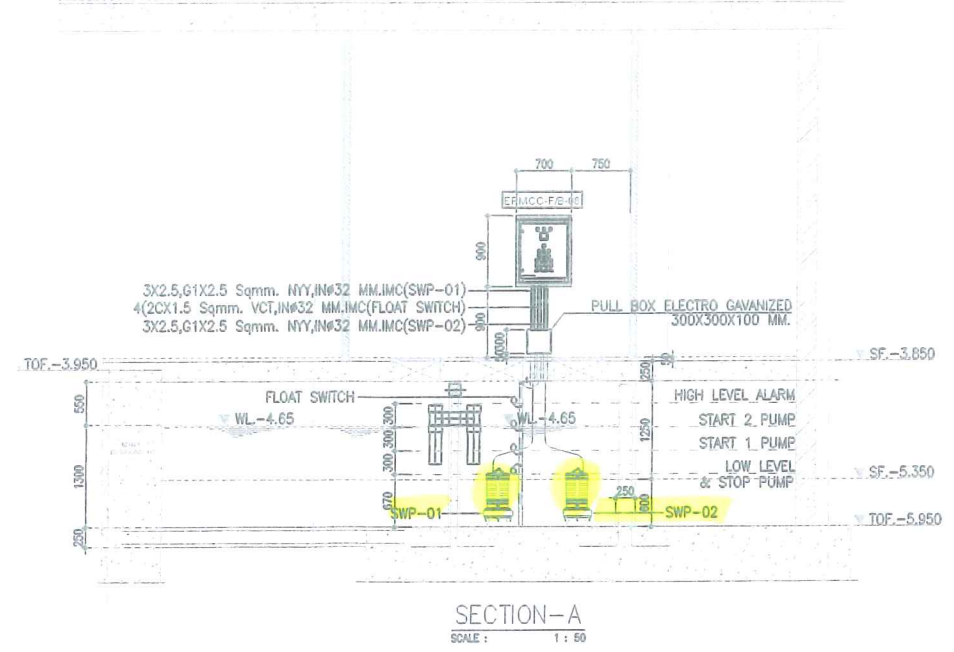
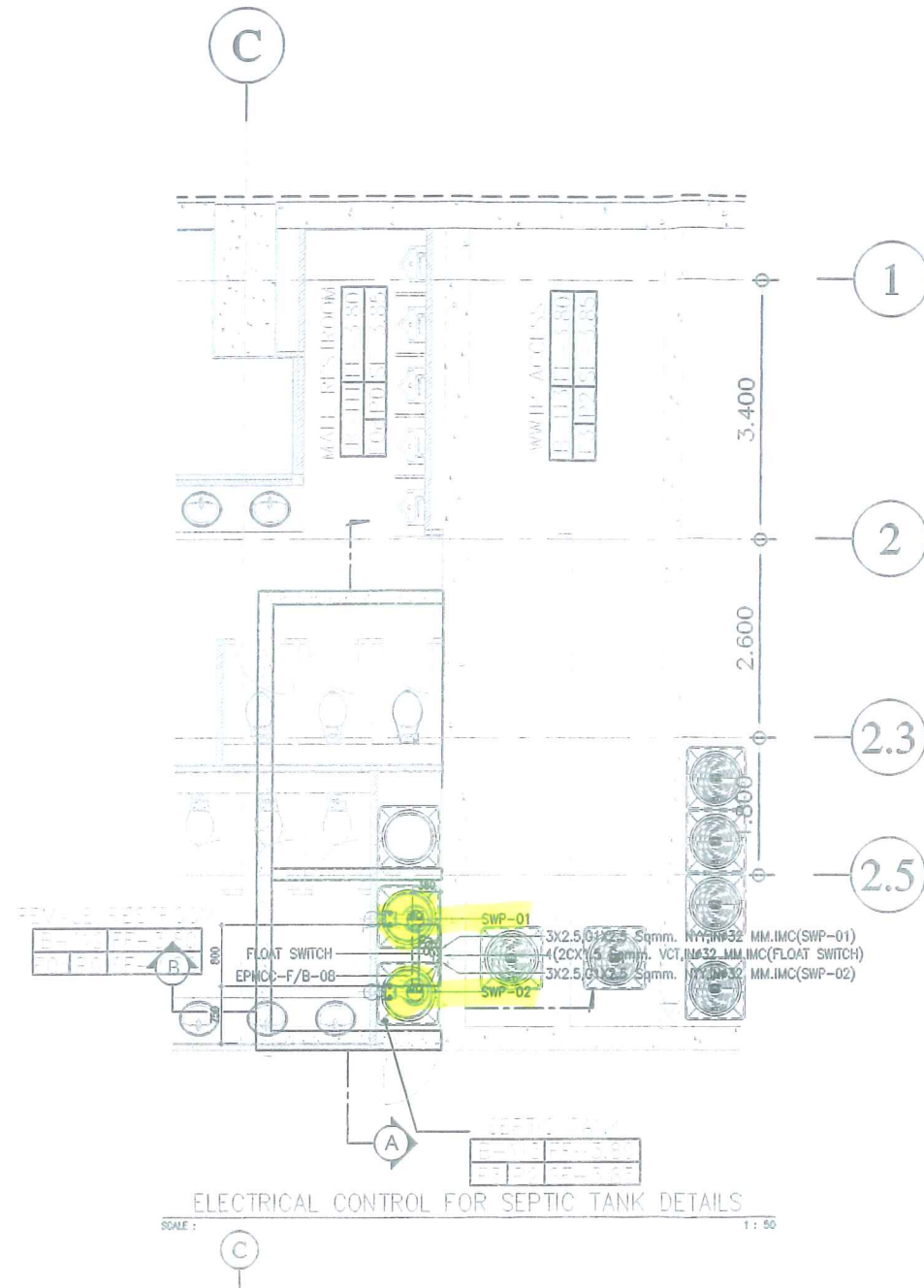
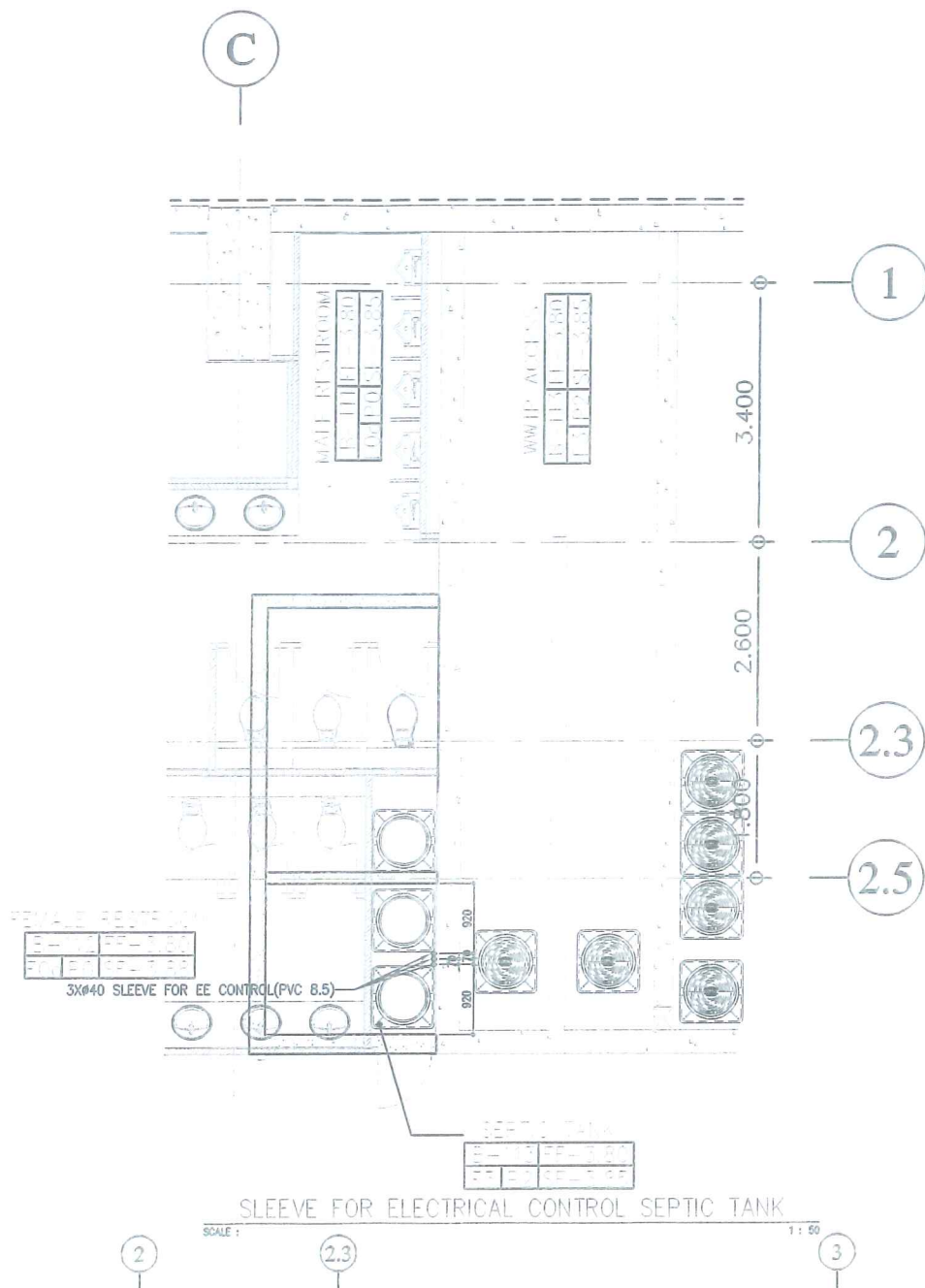
0140 EFP BOP-0.30 EL.

0150 O/F PIPE PVC 8.5

025 GULDE PIPE GSP

EJ-09(J750V 0.75 KW)

SECTION-A
SCALE : 1:50



PROJECT:

อาคารสำนักงานและศูนย์การค้าถาวร 2

OWNER:

Gaysorn Asset Management Co., Ltd.

ARCHITECTS:

A49

CIVIL AND STRUCTURAL:

KCS

LANDSCAPE:

L49

MECHANICAL:

MENHART

ARCHITECTS:

สถาปนิก	สถาปนิก	ร.ร. 404
สถาปนิก	สถาปนิก	ร.ร. 509
สถาปนิก	สถาปนิก	ร.ร. 1938
สถาปนิก	สถาปนิก	ร.ร. 6322
สถาปนิก	สถาปนิก	ร.ร. 15170

STRUCTURAL ENGINEERS:

วิศวกร	วิศวกร	ร.ร. 1023
วิศวกร	วิศวกร	ร.ร. 9572
วิศวกร	วิศวกร	ร.ร. 52127
วิศวกร	วิศวกร	ร.ร. 52127
วิศวกร	วิศวกร	ร.ร. 54157

ELECTRICAL ENGINEERS:

วิศวกร	วิศวกร	ร.ร. 868
วิศวกร	วิศวกร	ร.ร. 854
วิศวกร	วิศวกร	ร.ร. 4407
วิศวกร	วิศวกร	ร.ร. 41371
วิศวกร	วิศวกร	ร.ร. 44515

MCHANICAL ENGINEERS:

วิศวกร	วิศวกร	ร.ร. 601
วิศวกร	วิศวกร	ร.ร. 3362
วิศวกร	วิศวกร	ร.ร. 3325
วิศวกร	วิศวกร	ร.ร. 33555

ENVIRONMENTAL ENGINEERS:

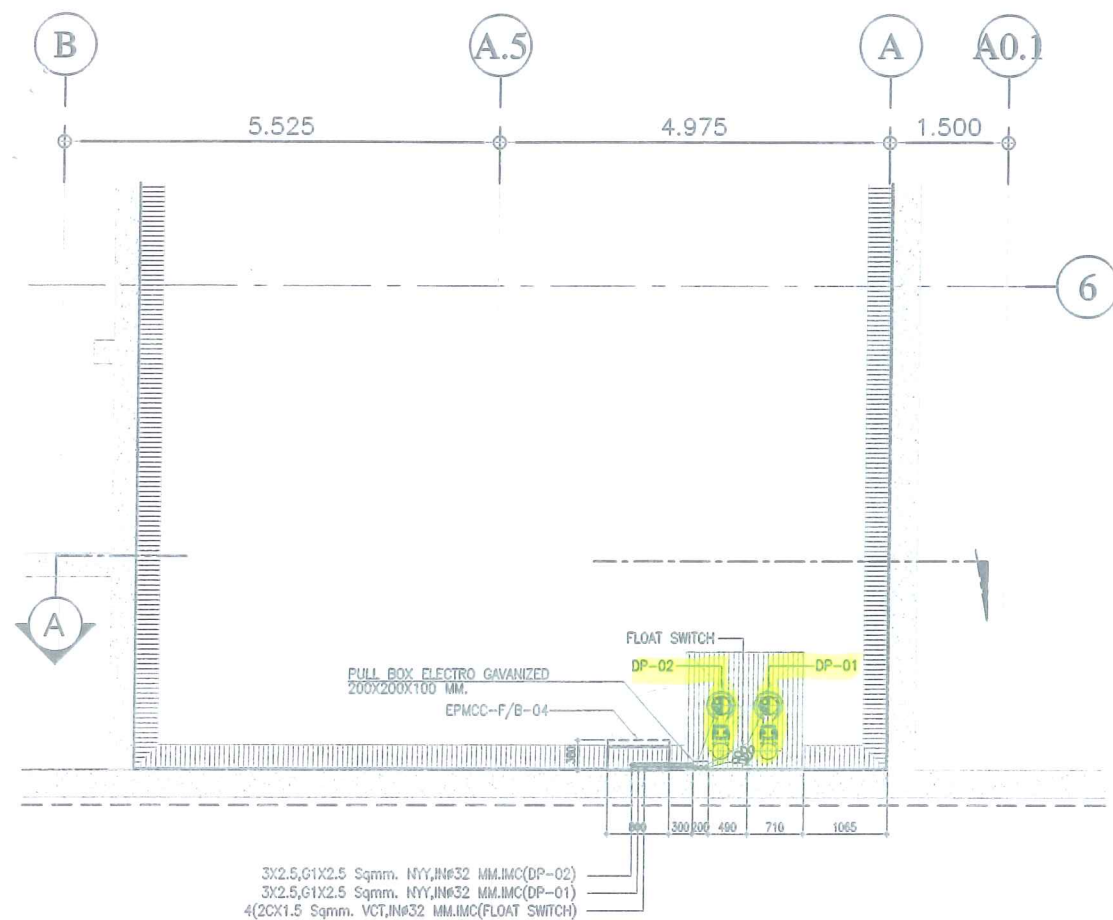
วิศวกร	วิศวกร	ร.ร. 32
วิศวกร	วิศวกร	ร.ร. 82
วิศวกร	วิศวกร	ร.ร. 233
วิศวกร	วิศวกร	ร.ร. 2113

BUILDING SERVICES CONTRACTOR:

JEC

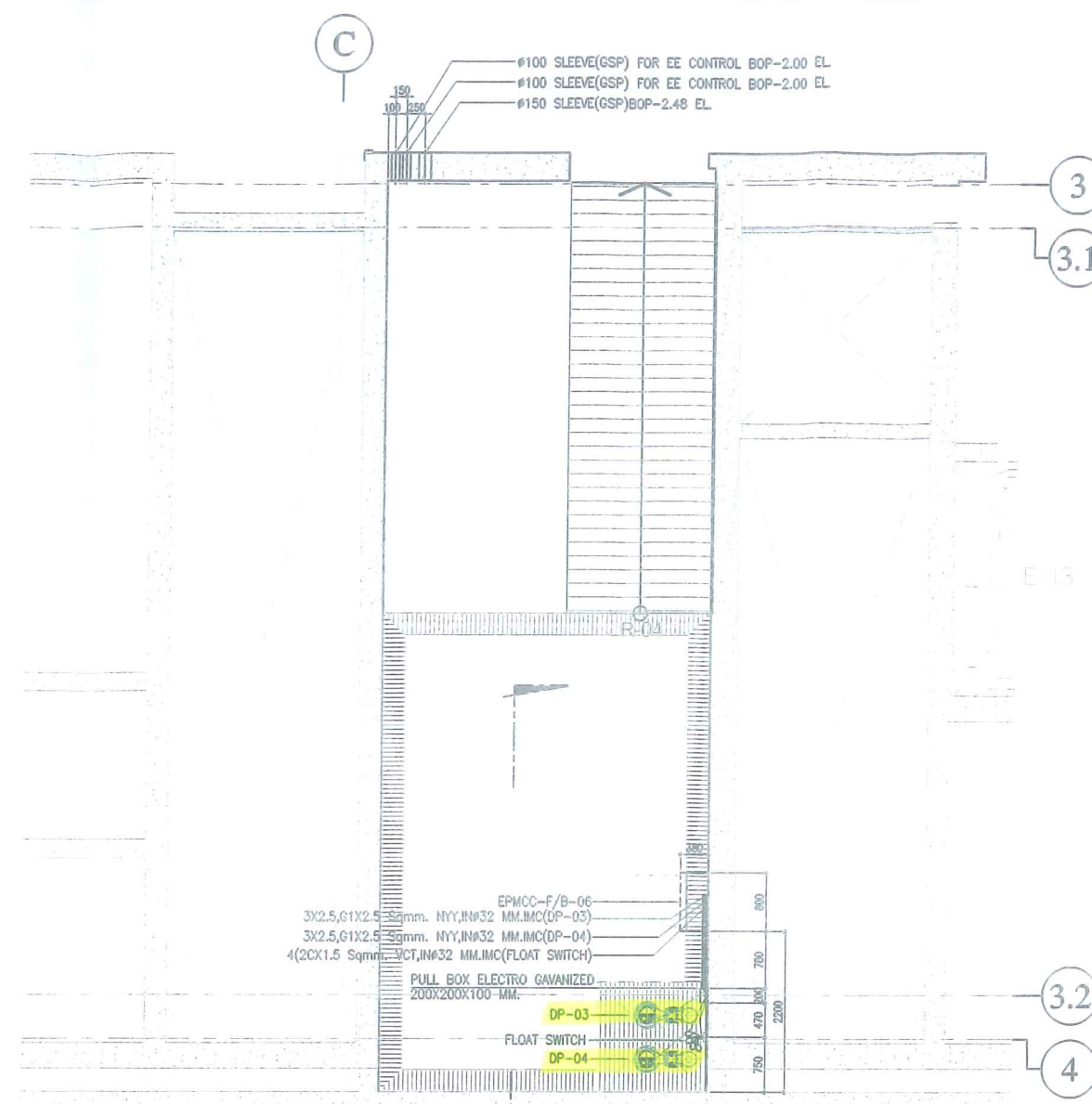
Jardine Engineering Company Limited

214/100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 1161, 1162, 1163, 1164, 1165, 1166, 1167, 1168, 1169, 1170, 1171, 1172, 1173, 1174, 1175, 1176, 1177, 1178, 1179, 1180, 1181, 1182, 1183, 1184, 1185, 1186, 1187, 1188, 1189, 1190, 1191, 1192, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1200, 1201, 1202, 1203, 1204, 1205, 1206, 1207, 1208, 1209, 1210, 1211, 1212, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220, 1221, 1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229, 1230, 1231, 1232, 1233, 1234, 1235, 1236, 1237, 1238, 1239, 1240, 1241, 1242, 1243, 1244, 1245, 1246, 1247, 1248, 1249, 1250, 1251, 1252, 1253, 1254, 1255, 1256, 1257, 1258, 1259, 1260, 1261, 1262, 1263, 1264, 1265, 1266, 1267, 1268, 1269, 1270, 1271, 1272, 1273, 1274, 1275, 1276, 1277, 1278, 1279, 1280, 1281, 1282, 1283, 1284, 1285, 1286, 1287, 1288, 1289, 1290, 1291, 1292, 1293, 1294, 1295, 1296, 1297, 1298, 1299, 1300, 1301, 1302, 1303, 1304, 1305, 1306, 1307, 1308, 1309, 1310, 1311, 1312, 1313, 1314, 1315, 1316, 1317, 1318, 1319, 1320, 1321, 1322, 1323, 1324, 1325, 1326, 1327, 1328, 1329, 1330, 1331, 1332, 1333, 1334, 1335, 1336, 1337, 1338, 1339, 1340, 1341, 1342, 1343, 1344, 1345, 1346, 1347, 1348, 1349, 1350, 1351, 1352, 1353, 1354, 1355, 1356, 1357, 1358, 1359, 1360, 1361, 1362, 1363, 1364, 1365, 1366, 1367, 1368, 1369, 1370, 1371, 1372, 1373, 1374, 1375, 1376, 1377, 1378, 1379, 1380, 1381, 1382, 1383, 1384, 1385, 1386, 1387, 1388, 1389, 1390, 1391, 1392, 1393, 1394, 1395, 1396, 1397, 1398, 1399, 1400, 1401, 1402, 1403, 1404, 1405, 1406, 1407, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1598, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1698, 1699, 1700, 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1723, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, 1738, 1739, 1740, 1741, 1742, 1743, 1744, 1745, 1746, 1747, 1748, 1749, 1750, 1751, 1752, 1753, 1754, 1755, 1756, 1757, 1758, 1759, 1760, 1761, 1762, 1763, 1764, 1765, 1766, 1767, 1768, 1769, 1770, 1771, 1772, 1773, 1774, 1775, 1776, 1777, 1778, 1779, 1780, 1781, 1782, 1783, 1784, 1785, 1786, 1787, 1788, 1789, 1790, 1791, 1792, 1793, 1794, 1795, 1796, 1797, 1798, 1799, 1800, 1801, 1802, 1803, 1804, 1805, 1806, 1807, 1808, 1809, 1810, 1811, 1812, 1813, 1814, 1815, 1816, 1817, 1818, 1819, 1820, 1821, 1822, 1823, 1824, 1825, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1834, 1835, 1836, 1837, 1838, 1839, 1840, 1841, 1842, 1843, 1844, 1845, 1846, 1847, 1848, 1849, 1850, 1851, 1852, 1853, 1854, 1855, 1856, 1857, 1858, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 19



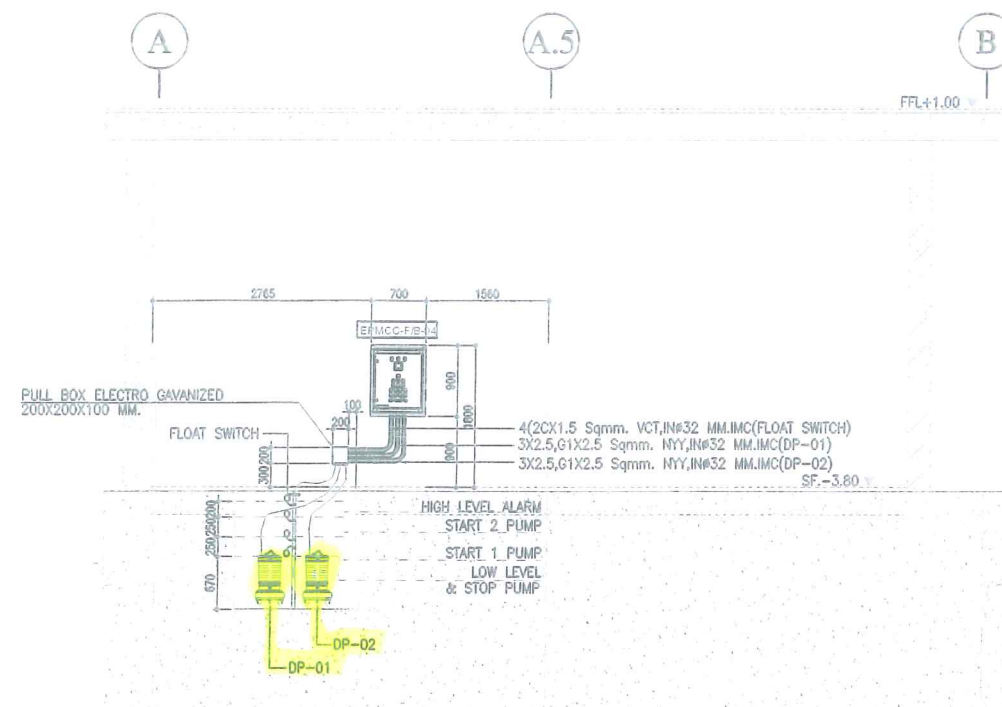
ELECTRICAL CONTROL FOR DRAINAGE SUMP 01,02 DETAILS

SCALE : 1 : 50



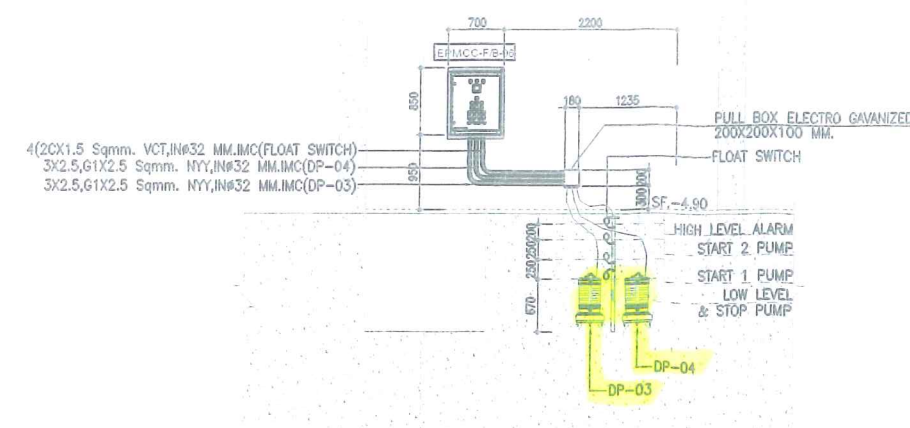
ELECTRICAL CONTROL FOR DRAINAGE SUMP 03,04 DETAILS

SCALE : 1 : 50



SECTION-A

SCALE : 1 : 50



SECTION-B

SCALE : 1 : 50

PROJECT:

อาคารสำนักงานและ
ศูนย์การค้าเลข 2

OWNER:

Gayson Asset Management Co., Ltd.

ARCHITECTS:

A49

CIVIL AND STRUCTURAL:

KCS

C S & ASSOCIATES CO. LTD.

MEINHARDT

Meinhart (Thailand) Ltd.

LANDSCAPE:

L49

ARCHITECTS:

สถาปนิก	สถาปนิก	สถาปนิก
สถาปนิก	สถาปนิก	สถาปนิก
สถาปนิก	สถาปนิก	สถาปนิก
สถาปนิก	สถาปนิก	สถาปนิก

STRUCTURAL ENGINEERS:

วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร

ELECTRICAL ENGINEERS:

วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร

MECHANICAL ENGINEERS:

วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร

ENVIRONMENTAL ENGINEERS:

วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร
วิศวกร	วิศวกร	วิศวกร

BUILDING SERVICES CONTRACTOR:



Jardine Engineering Company Limited

22/11/2015 10:00 AM

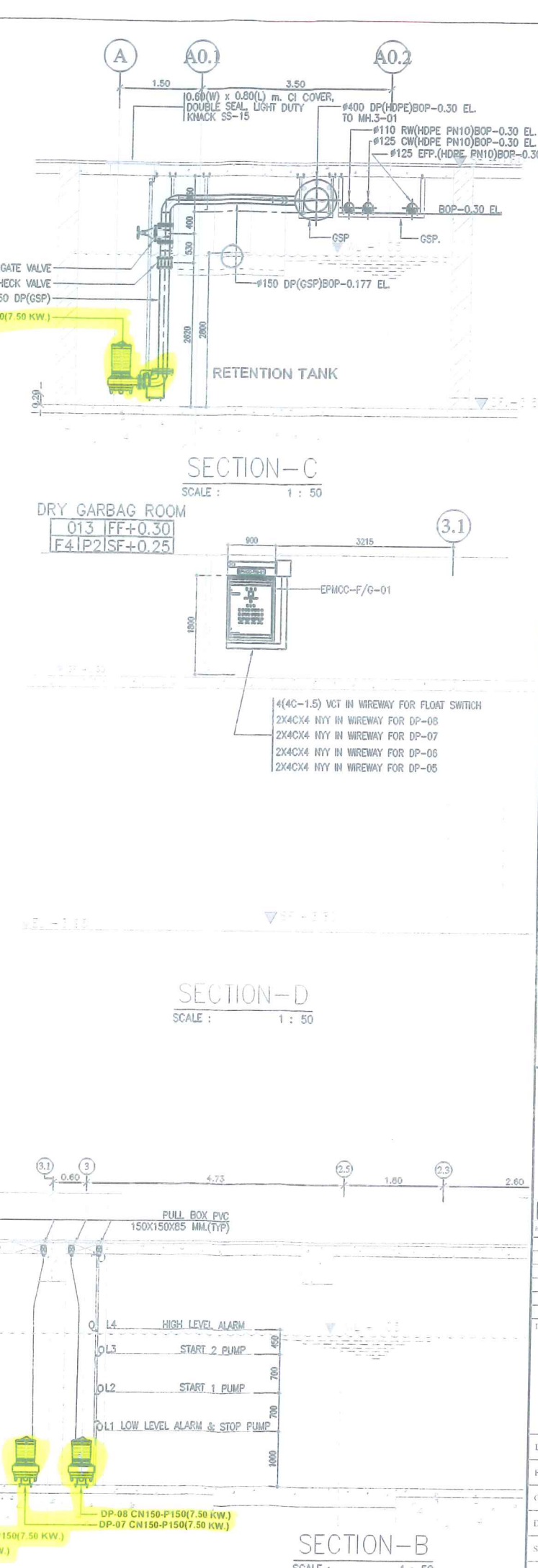
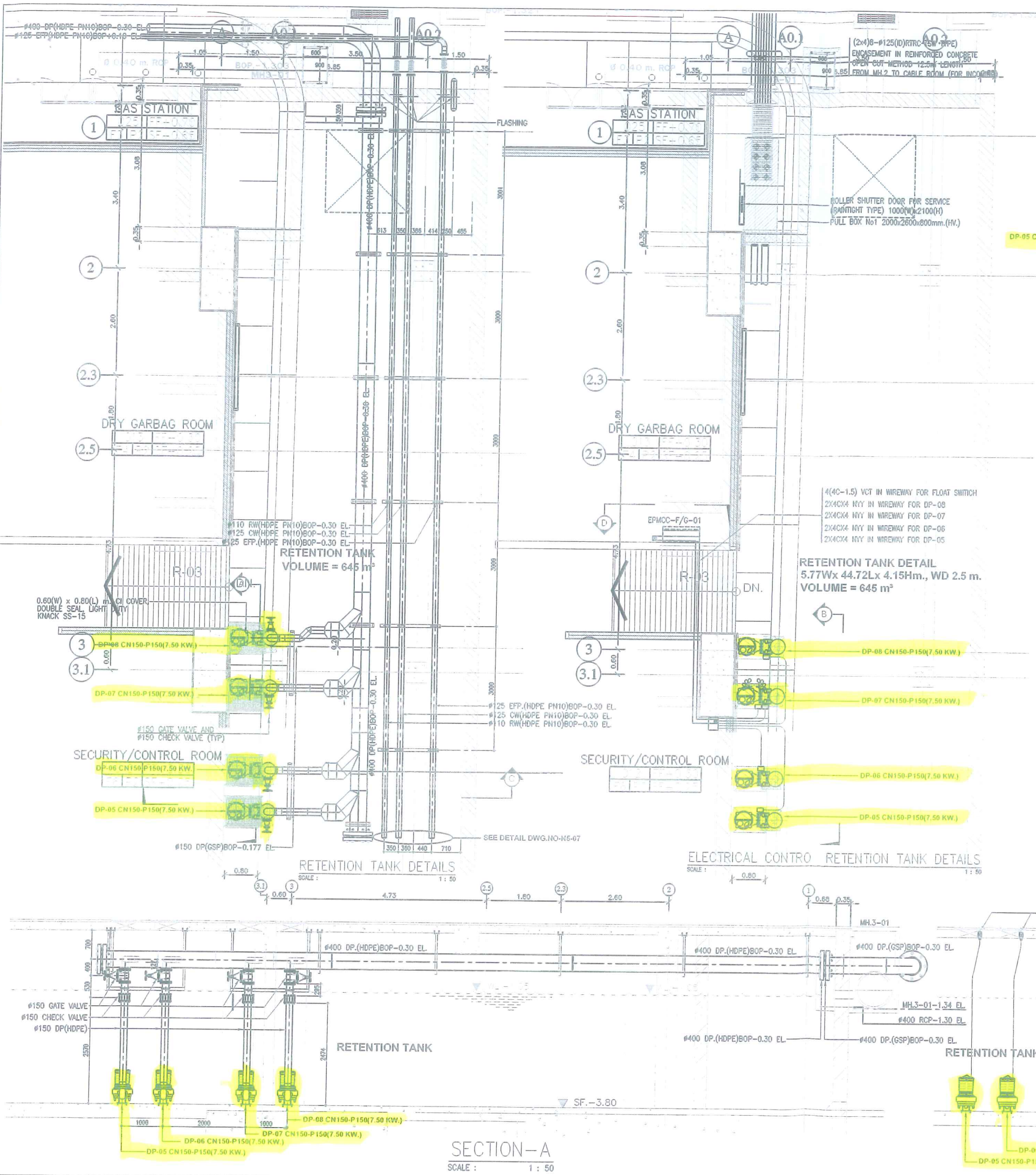
SHOP DRAWING

REVISION	DESCRIPTION	DATE
A	FOR APPROVAL	21/07/15

DRAWING TITLE:

ELECTRICAL CONTROL FOR DRAINAGE
-LB FLOOR

DRAWN :	Rungrat C. JEC	DWG. NO.
PREPARED :	Tanawat L. JEC	
CHECKED :	Tanavepong W. JEC	
DATE :	21/07/15	
SCALE :	A1=1/50 / A3=1/100	
REV :	00	N6-09



PROJECT:
อาคารสำนักงานและ
ศูนย์การค้าเบอร์ 2

OWNER:
Gayson Asset Management Co., Ltd.

ARCHITECTS:
A49
Architects: 49 Limited
250/251 New Petchaburi Road, Bangkok 10500, Thailand
Tel: 02-255-1422
Fax: 02-255-1422
E-mail: a49@49.com, www.a49group.com

CIVIL AND STRUCTURAL:
KCS
KCS & ASSOCIATES CO. LTD.
250/251 New Petchaburi Road, Bangkok 10500, Thailand
Tel: 02-255-1422
Fax: 02-255-1422
E-mail: kcs@kcs.co.th, www.kcs.co.th

LANDSCAPE:
L49
Landscape Architects 49 Limited
250/251 New Petchaburi Road, Bangkok 10500, Thailand
Tel: 02-255-1422
Fax: 02-255-1422
E-mail: l49@l49.com, www.l49group.com

ARCHITECTS:

สถาปนิก	นายวิชาญ	404
วิศวกร	นายวิชาญ	509
สถาปนิก	นายวิชาญ	1936
สถาปนิก	นายวิชาญ	6322
สถาปนิก	นายวิชาญ	15170

STRUCTURAL ENGINEERS:

วิศวกร	นายวิชาญ	1023
วิศวกร	นายวิชาญ	9572
วิศวกร	นายวิชาญ	52127
วิศวกร	นายวิชาญ	52127
วิศวกร	นายวิชาญ	54157

ELECTRICAL ENGINEERS:

วิศวกร	นายวิชาญ	868
วิศวกร	นายวิชาญ	854
วิศวกร	นายวิชาญ	4407
วิศวกร	นายวิชาญ	41371
วิศวกร	นายวิชาญ	44516

MECHANICAL ENGINEERS:

วิศวกร	นายวิชาญ	601
วิศวกร	นายวิชาญ	3362
วิศวกร	นายวิชาญ	3325
วิศวกร	นายวิชาญ	33555

ENVIRONMENTAL ENGINEERS:

วิศวกร	นายวิชาญ	32
วิศวกร	นายวิชาญ	82
วิศวกร	นายวิชาญ	233
วิศวกร	นายวิชาญ	2113

BUILDING SERVICES CONTRACTOR:
JEC
Jardine Engineering Company Limited
250/251 New Petchaburi Road, Bangkok 10500, Thailand
Tel: 02-255-1422
Fax: 02-255-1422
E-mail: jec@jec.com, www.jec.com

SHOP DRAWING

REV.	DESCRIPTION	DATE
A	FOR APPROVAL	25/07/16
B	FOR APPROVAL	25/07/16
C	FOR APPROVAL	25/07/16

DRAWING TITLE
RETENTION TANK DETAIL

DRAWN: Rangnong C. JEC
PREPARED: Tanawat L. JEC
CHECKED: Tanwong W. JEC
DATE: 25/07/16
SCALE: A1=1.50 / A3=1.100
REV: 00

DWG. NO.
N5-12

