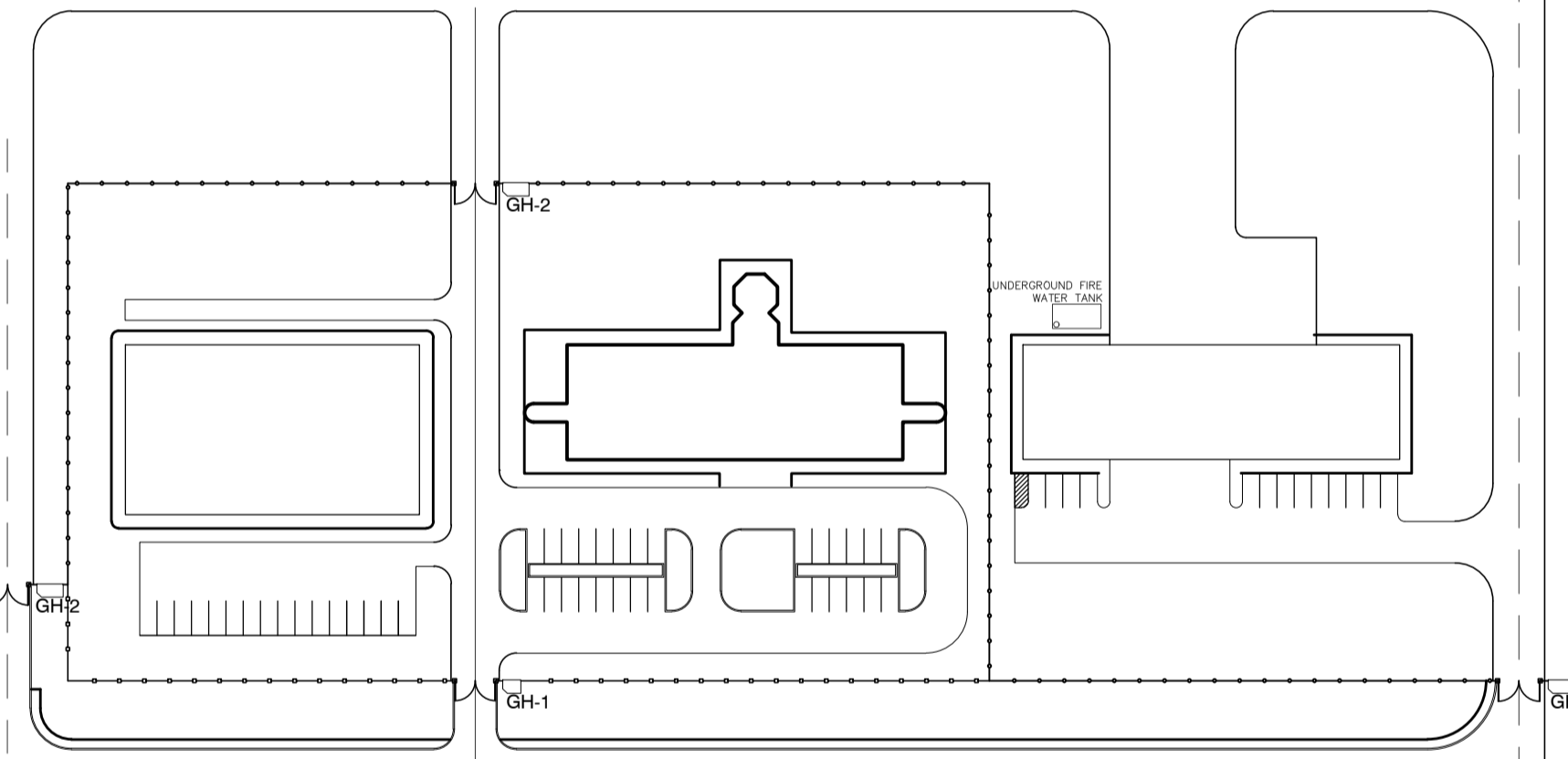
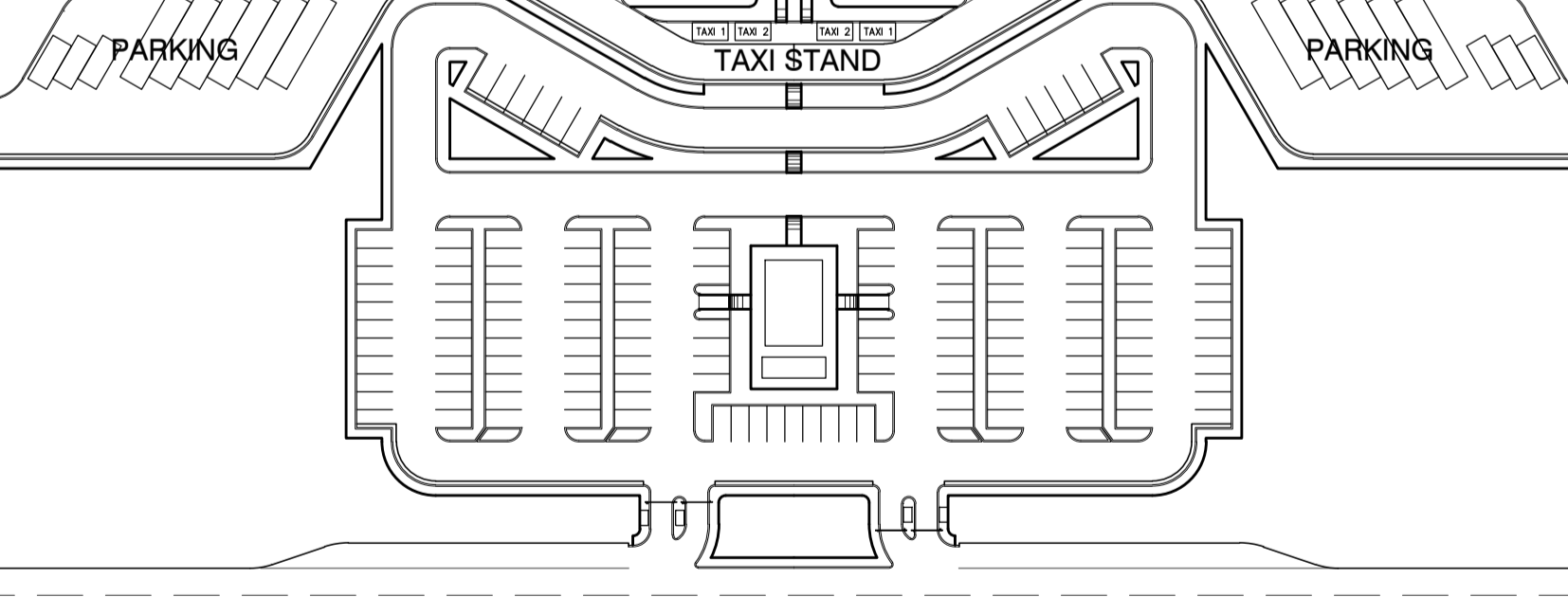
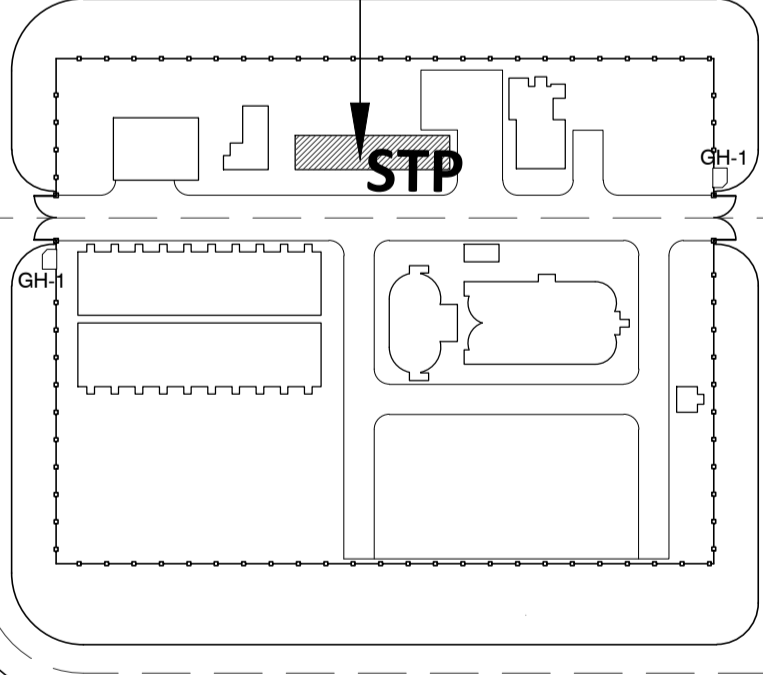


**COMPONENT-4 BUILDING WORKS (B)
SUBCOMPONENT-4-6 UTILITY BUILDINGS
(B61) STP CONTROL ROOM (STP)**



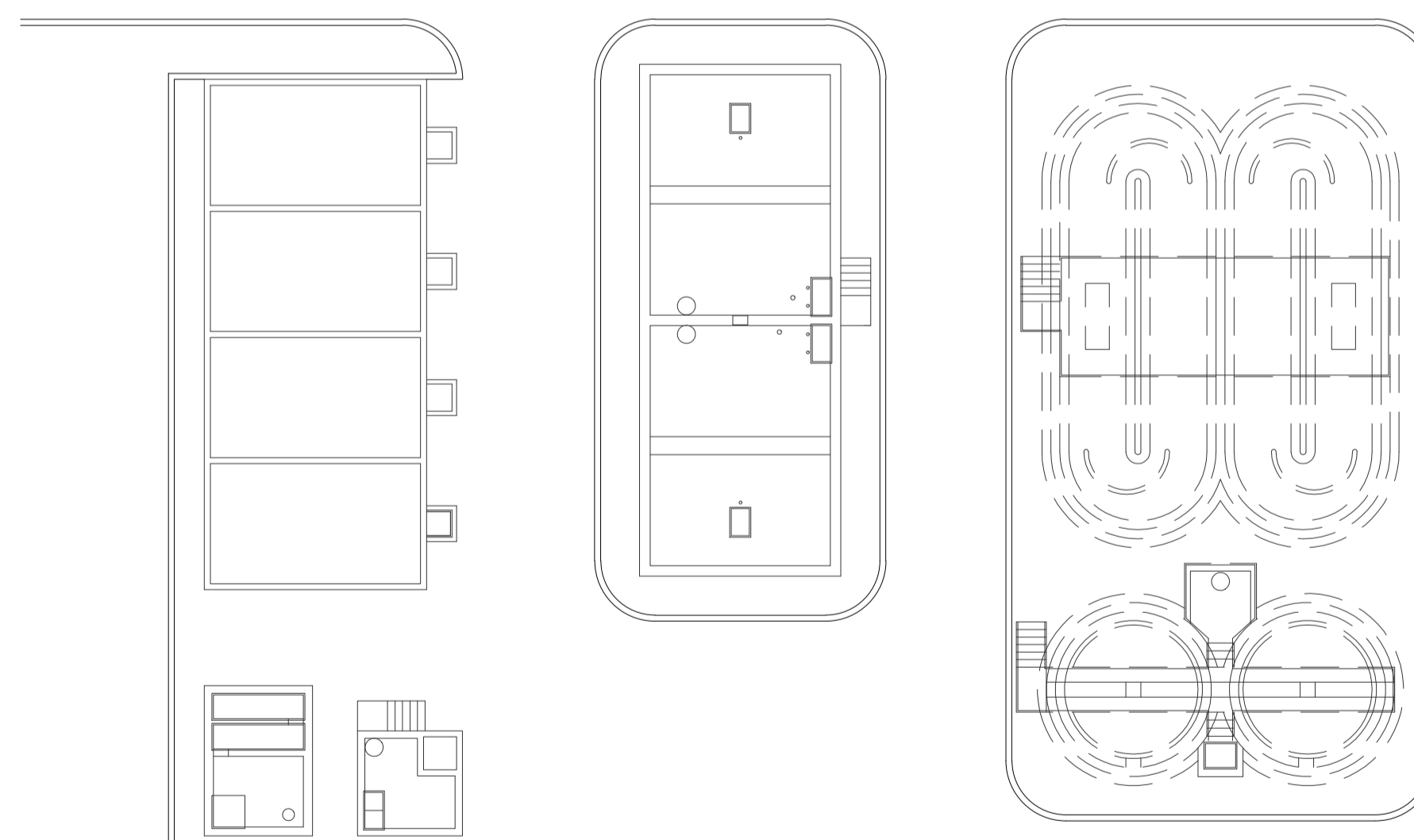
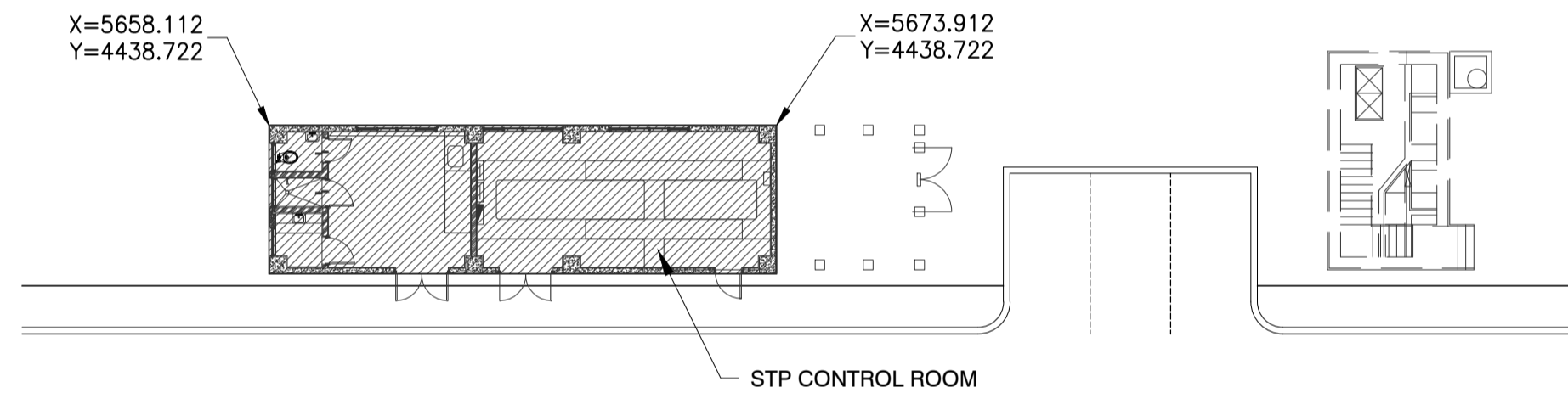
	PREPARED BY: WILLIAM I. MALLONGA <small>PROF: Architect PTR: 3811137 REG. NO.: 4623 DATE: MAY 9, 2013 TEAM: 159-564-198 PLACE: MANILA CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 UTILITY BUILDINGS (B63) STP CONTROL ROOM ARCHITECTURAL LOCATION PLAN	SHEET NO: B63-4300-01 DRAWING SCALE: 1:1000 M.
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.</small>	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	JUNE 2013 DATE INDEX AMENDMENTS Prepared by: WIM Checked by: HC Validated by:	SHEET NO: B63-4300-01 DRAWING SCALE: 1:1000 M.

**STP CONTROL ROOM (STP)
OUTLINE OF EXTERNAL FINISHING SCHEDULE**

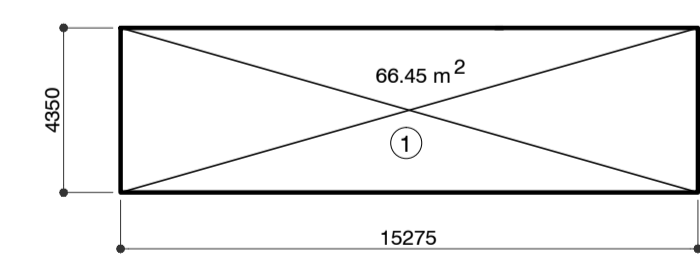
Portion	Appl.	Symbol	Finishing Material	Portion	Appl.	Symbol	Finishing Material	
Floor		FLG	t=30 Granite tile with jet burner finish on cement setting bed	Walls		WLA	Aluminum Back-mullion Curtain wall Framing system	
	x	FLS	Cement render finishing with metal troweled (t=30)		x	WLR	Cement render finish w/P-4	
		FLC	Ceramic tile 300 x 300 slip resistance finishing			WLC	Fair faced concrete w/P-4	
Roof		ROD	Single folded steel plate roof with insulation (Folded steel plate : t=0.6,h=41 fluorine-resin coated aluminized steel, Insulation : t=100 Glass wool wrapped in polyethylene film)	Windows		WLD	Aluminum Cladding: Anodizing with electro deposition Aluminum composite panel w/ polyethylene insulation t=40mm	
		ROS	Single folded steel plate (t=0.6, h=41) fluorine-resin coated aluminized steel w/ prefabricated fiber glass sheet t=5mm		x	AW	Anodizing with electro deposition aluminum window	
	x	ROC	Protective concrete layer on insulation board and pre-formed waterproofing membrane WP-1		Doors	x	SD	Steel door w/P-3
		ROPS	Vinyl Chloride resin sheet membrane on insulation board t=30			x	AD	Anodizing with electro seposition aluminum door
		ROPR	Hot applied rubberized asphalt waterproofing system WP-2			Column	x	CNR
Roof Gutter		RGA	Stainless sheet (t=2) w/ polyethylene foam W=500		CNC		Fair faced concrete w/P-4	
		RGB	Stainless sheet (t=2) w/ polyethylene foam W=300		CNF		Fair faced concrete	
Fascia		EVA	t=2.5 Aluminum panel w/P-8		CNB		t=8 Calcium silicate board w/P-4	
					CNS		Steel structure w/P-8	
Parapet	x	PAR	Cement render finish w/P-4	Beam	BMR		Cement render finish w/P-4	
		PAF	Fair faced concrete w/P-4				BMC	Fair faced concrete w/P-4
DownSpout		DSA	d=100 Galvanized SGP w/P-3				BMF	Fair faced concrete
		DSB	d=150 Galvanized SGP w/P-3		Base	BMS	Steel structure w/P-8	
	x	DSC	d=100 uPVC Pipe w/P-7			x	BSR	Cement render finish w/P-4 h=300
Soffit		SFA	t=8 Calcium silicate board w/P-7			BSF	Fair faced concrete h=300	
		SFB	t=8 Calcium silicate board w/P-1		SKG	t=25 Granite tile H=100		
	x	SFC	Formed Face Concrete	Roller Doors		RDST	Roller steel door w/P-3	
Parapet Coping		PCA	Anodizing with electro deposition Aluminum Coping			RDG	Roller steel grill w/P-3	
	x	PCR	Cement render finish w/P-4	Expansion Joint		EXJ	Pre-fabricated stainless steel expansion joint covers	
Sky Light		SKL	Laminated glass with anodizing with electro deposition frame					
Ladder		LDS	Stainless steel pipe					

- Legend for Paint Type**
- P-1 Synthetic Resin Emulsion Paint
 - P-2 Synthetic Resin Mixed Paint type I (for wood)
 - P-3 Synthetic Resin Mixed Paint type II (for steel)
 - P-4 Synthetic Resin Emulsion Multi-Layer Coating
 - P-5 Clear Lacquer
 - P-6 Epoxy Resin Floor Paint
 - P-7 Acrylic Resin Enamel Paint
 - P-8 Fluorine-resin Enamel coating

wp-3: Water Proofing : Urethane Waterproofing Coating



1 LAYOUT PLAN
SCALE 1:200m.



STP CONTROL ROOM FLOOR AREA SCHEDULE

FL	Floor Area No.	Floor Area
	1	66.45 m ²
GFL	TOTAL	66.45 m ²

2 STP CONTROL ROOM
SCALE 1:200m.

	PREPARED BY: WILLIAM I. MALLONGA <small>PROF: Architect PIR: 3011137 REG. NO.: 4623 DATE: MAY 9, 2013 TEL: 150-564-198 PLACE: MANILA CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 UTILITY BUILDINGS (B63) STP CONTROL ROOM ARCHITECTURAL EXTERNAL FINISHING SCHEDULE LAYOUT PLAN FLOOR AREA SCHEDULE	SHEET NO: B63-4300-02
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	DATE INDEX AMENDMENTS	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN

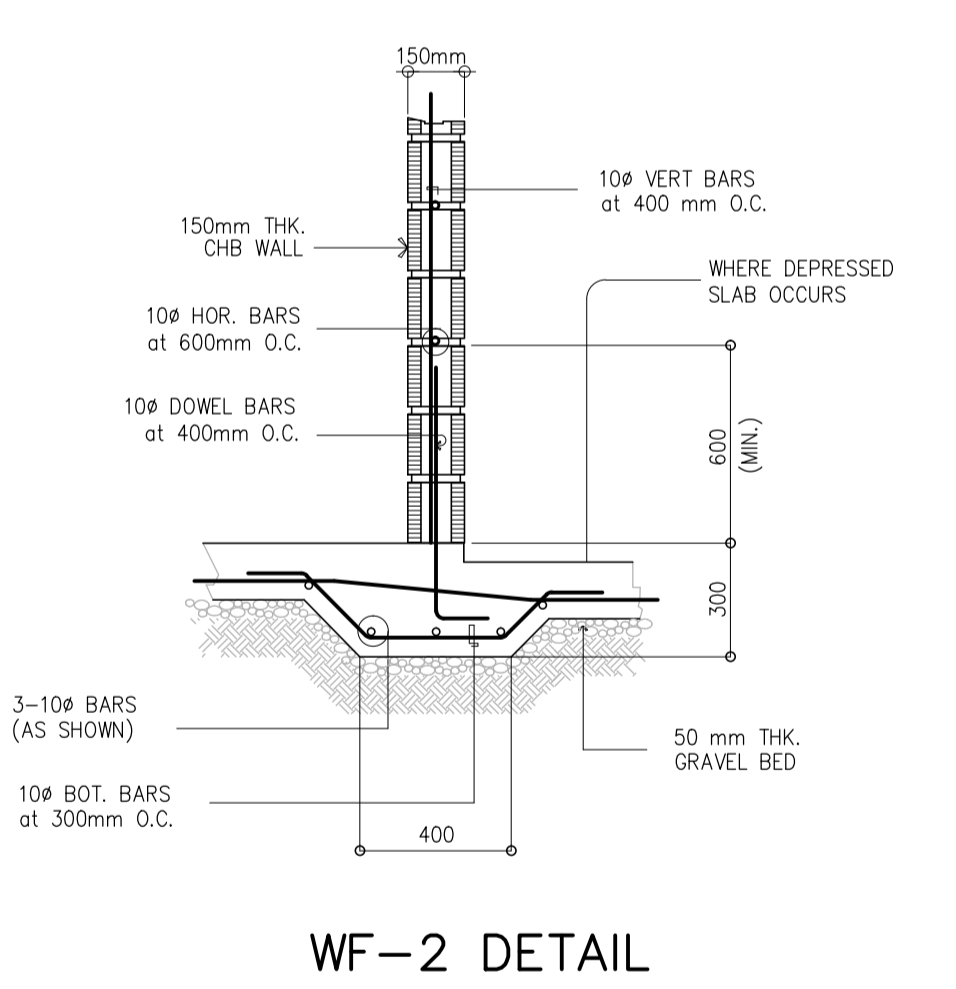
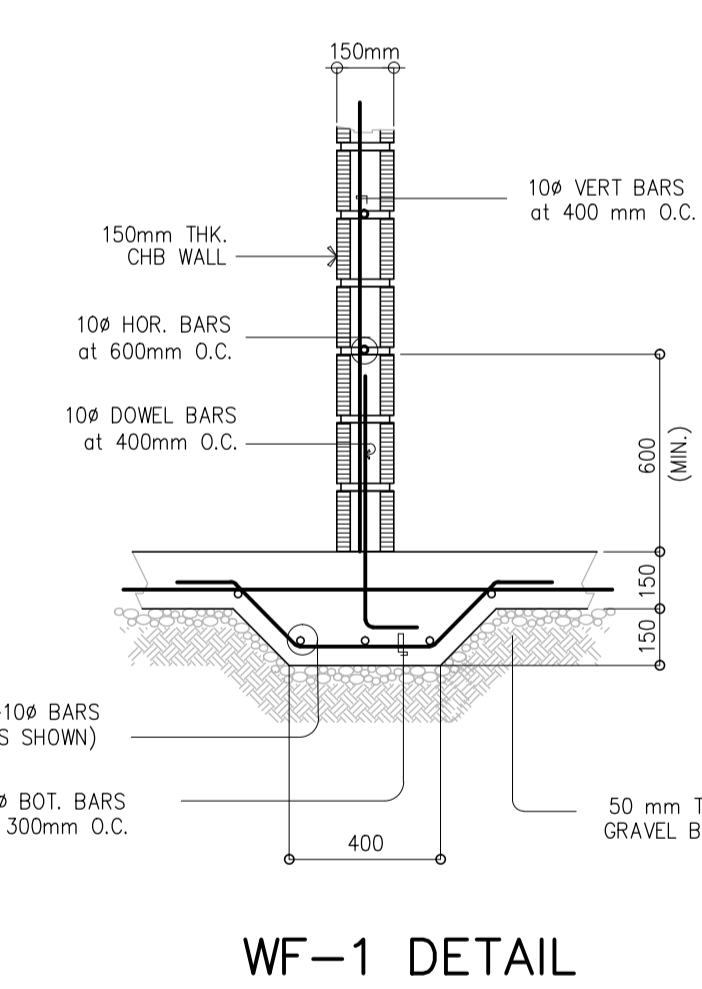
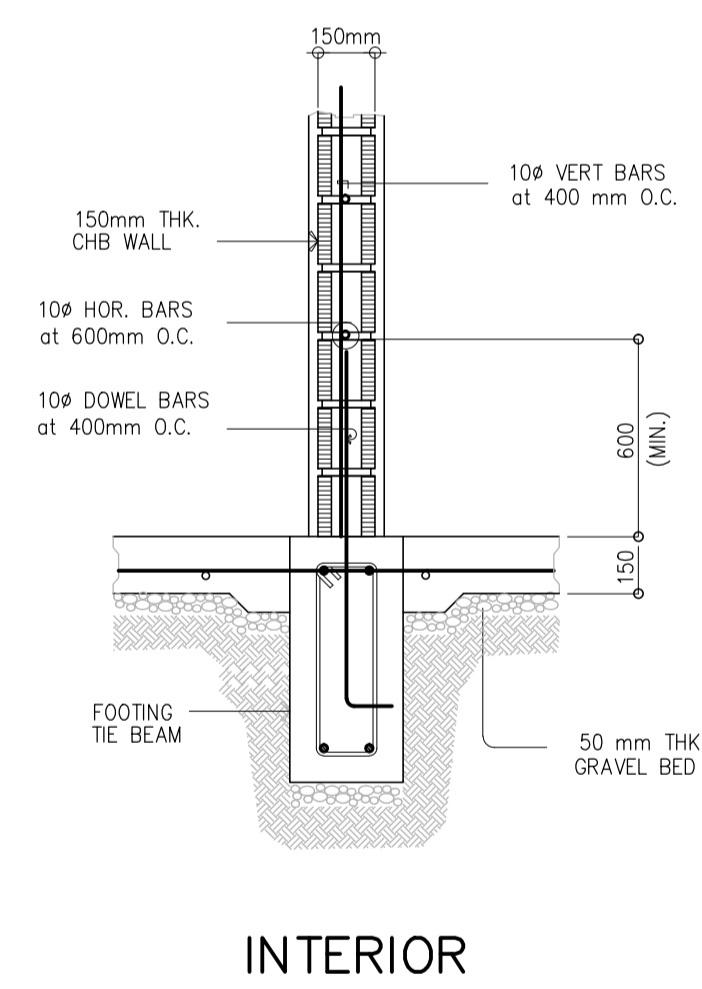
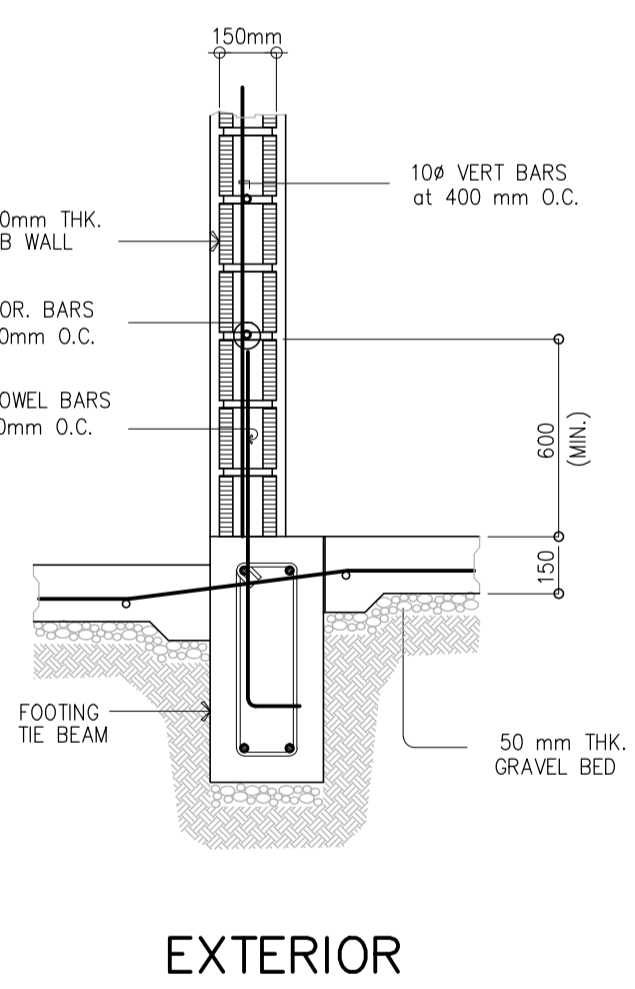
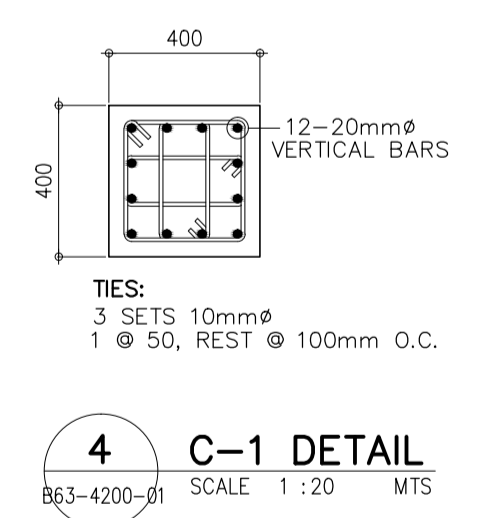
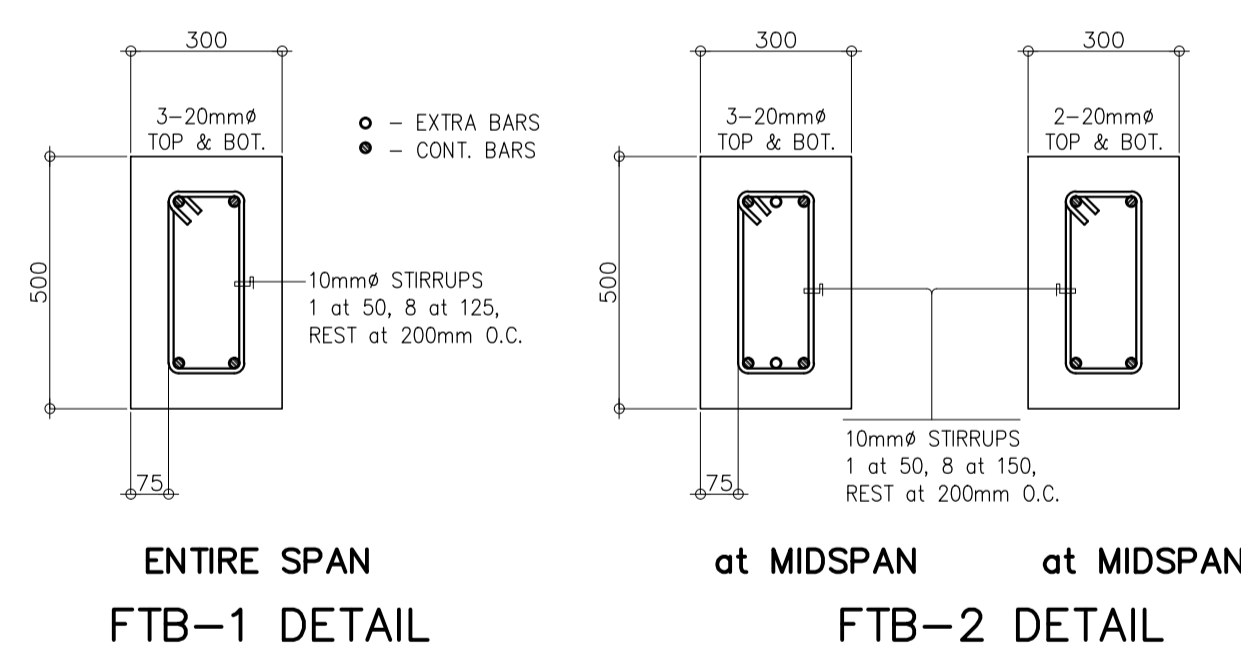
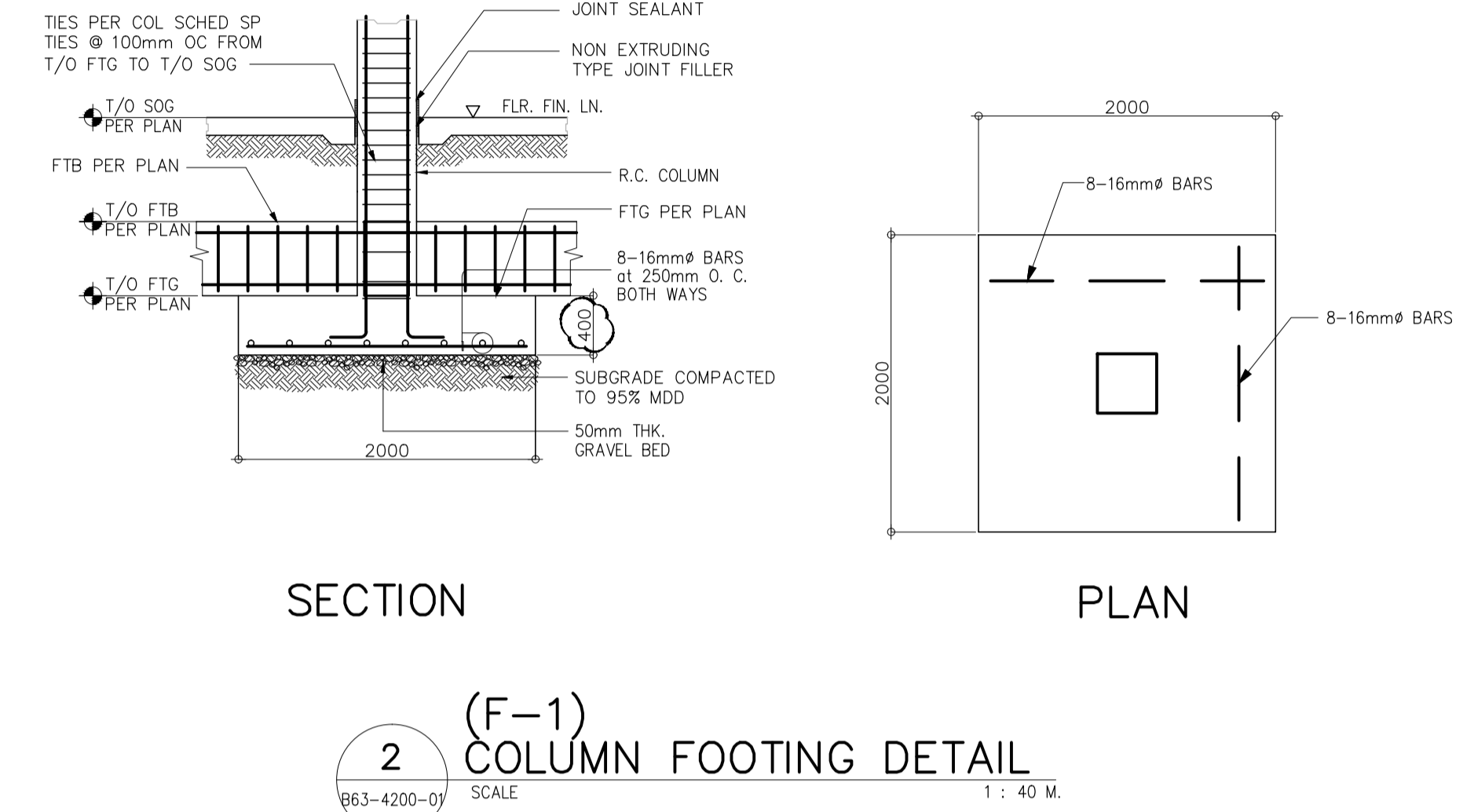
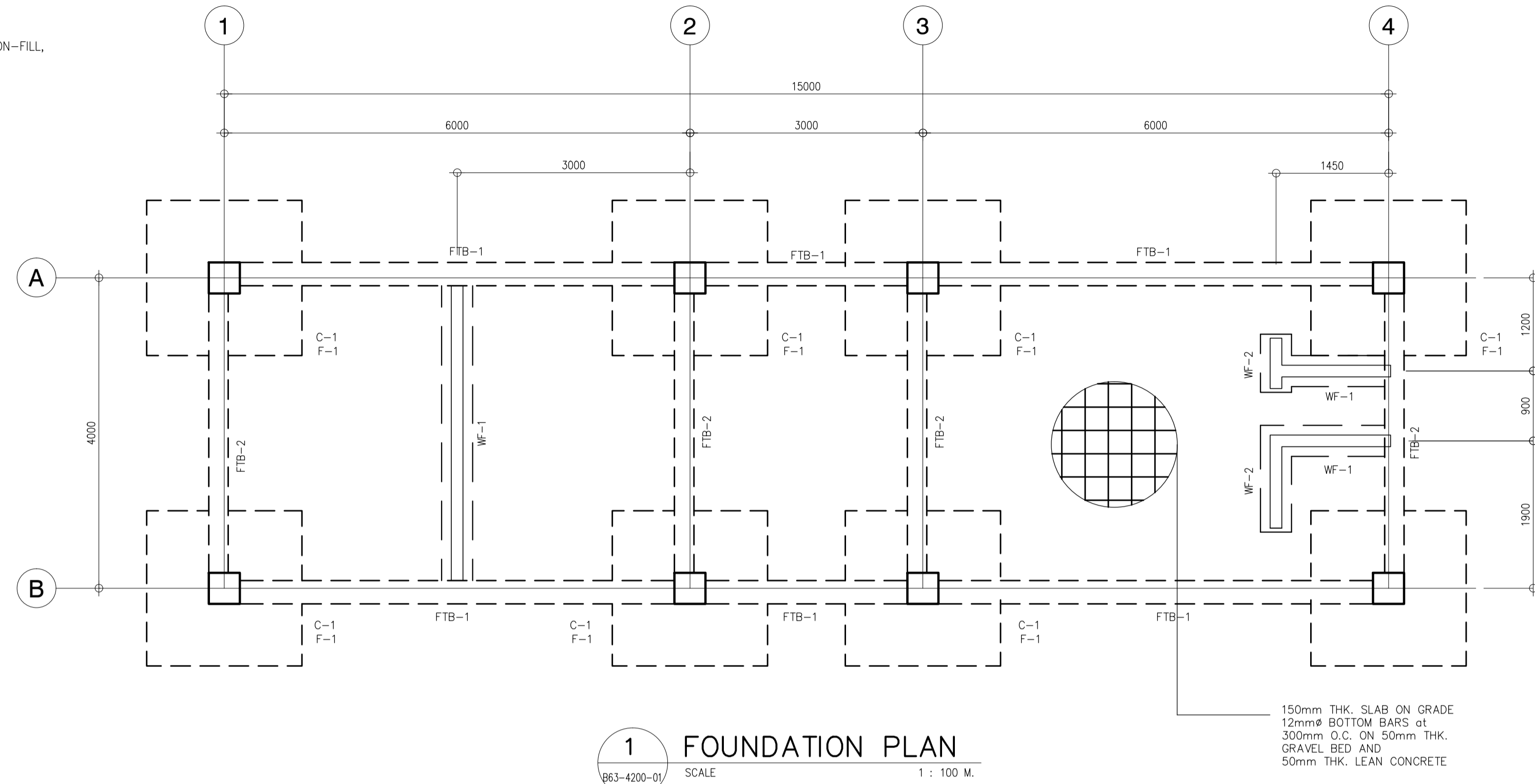
GENERAL NOTES:

- CONCRETE COMPRESSIVE STRENGTH
 - $f_c' = 20.7 \text{ MPa}$ FOUNDATION, WALL FOOTINGS, SLAB-ON-FILL, LINTEL BEAMS
 - $f_c' = 27.6 \text{ MPa}$ COLUMNS, BEAMS, SUSPENDED SLAB, FOOTING TIE BEAMS, STAIR, PARAPET

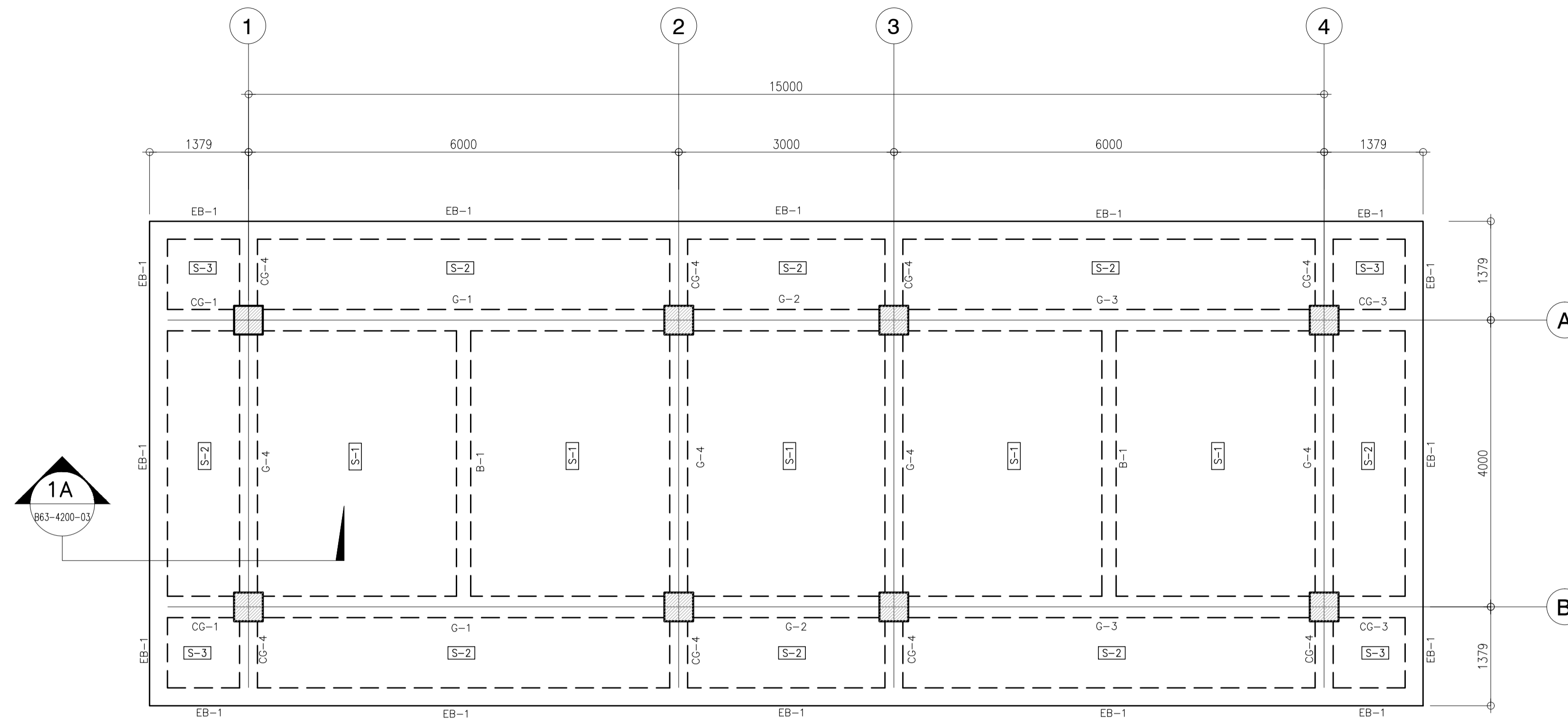
- REBARS YIELD STRENGTH
 - $f_y = 414 \text{ MPa}$ 16mm ϕ & LARGER
 - $f_y = 276 \text{ MPa}$ 12mm ϕ & 10mm

GENERAL FOUNDATION NOTES

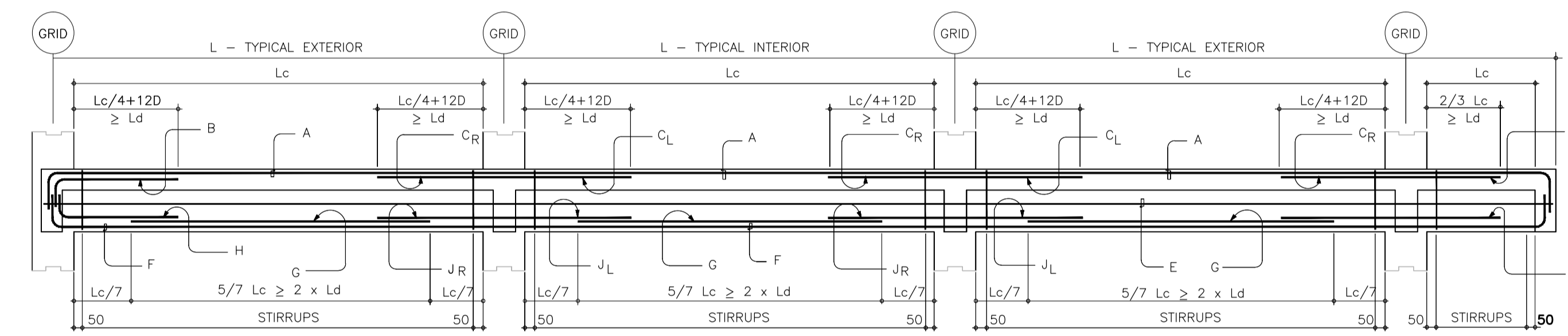
- SEE SHEET B0-4200-01 TO B0-4200-02 FOR GENERAL STRUCTURAL NOTES AND TYPICAL WALL CONSTRUCTION NOTES.
- ALL COLUMN FOOTINGS ARE CENTERED ON COLUMN AND COLUMNS ARE CENTERED ON GRIDS UNO.
- DIMENSION ON THIS PLAN ARE CENTER TO CENTER OF COLUMNS.
- T/E INDICATED TOP OF FOOTING ELEVATION (DATUM: GROUND FLR LVL. = 0.00m)
TYP T/E UNO: -1.50m
TYP T/O FTB ELEV: -0.60m
- VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES.
- SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF RECESSES, SLABS, SLOPED AREAS IN SLABS ON GRADE, AND CURBS AT EXTERIOR BUILDING FACE.
- F1, F2 ETC ON PLAN DENOTES CONC FOOTING. SEE SHEET B63-4200-03.
- C1, C2 ETC ON PLAN DENOTES COLUMNS. SEE SHEET B63-4200-03.



	PREPARED BY: EDGARDO C. CRUZ PROF: CIVIL ENGINEER PTR: 7589023B REG. NO.: 23983 DATE: JANUARY 03, 2013 TEL: 661-157-021 PLACE: QUEZON CITY	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-6 : UTILITY BUILDINGS STP (SEWERAGE TREATMENT PLANT CONTROL RM) STRUCTURAL GENERAL NOTES FOUNDATION PLAN PLAN COLUMN, TIE BEAM & FOOTING DETAIL	SHEET NO: B63-4200-01
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI Team Leader	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	DATE: JUNE 2013	INDEX:	AMENDMENTS:	DRAWING SCALE: AS SHOWN

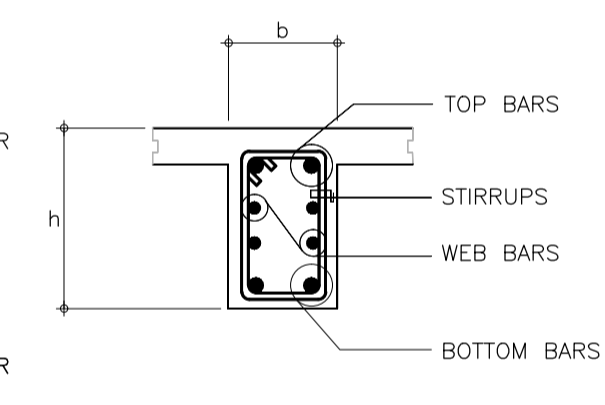


1 ROOF FRAMING PLAN
SCALE 1 : 50 M.



TYPICAL R.C. BEAMS ELEVATION

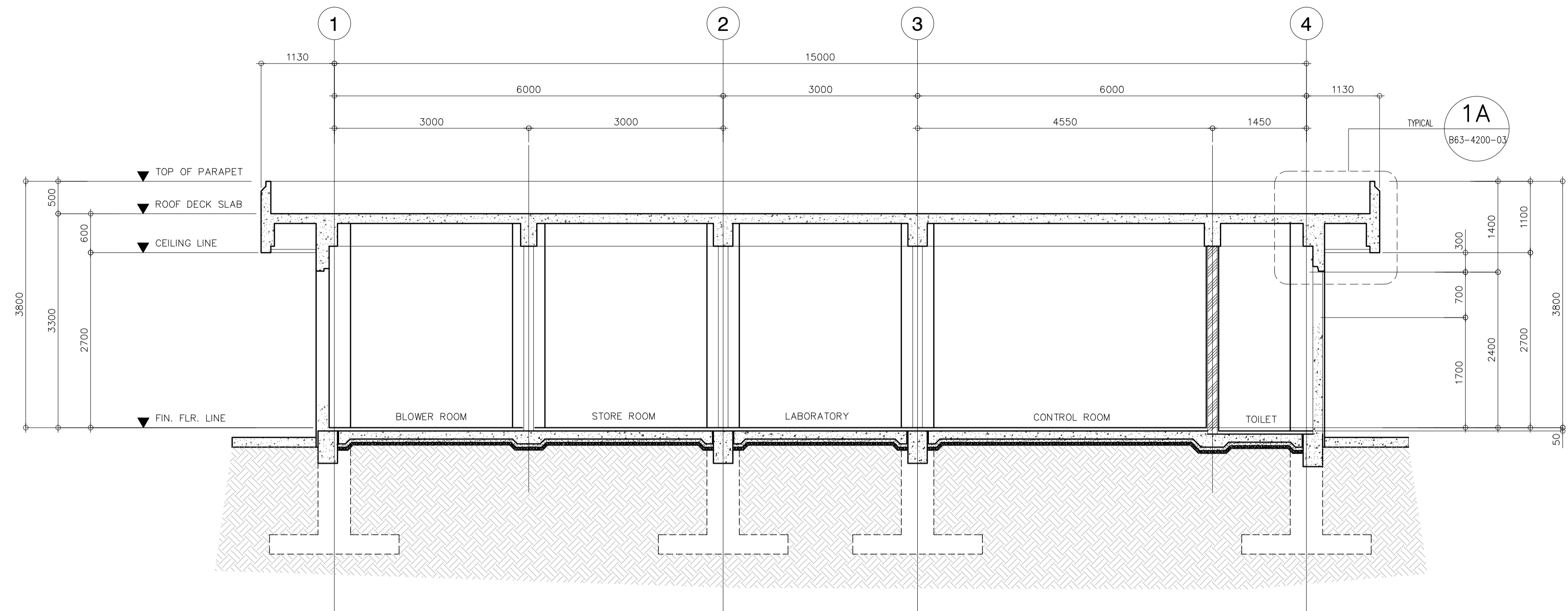
NOTE : ALL MAIN BARS SHALL BE 20mm ϕ , ALL E-BARS SHALL BE 20mm ϕ , UNLESS OTHERWISE INDICATED, FIRST STIRRUP SHALL BE AT 50mm FROM THE FACE OF THE SUPPORT AND STIRRUPS SHALL BE 12mm ϕ , UNLESS OTHERWISE INDICATED.



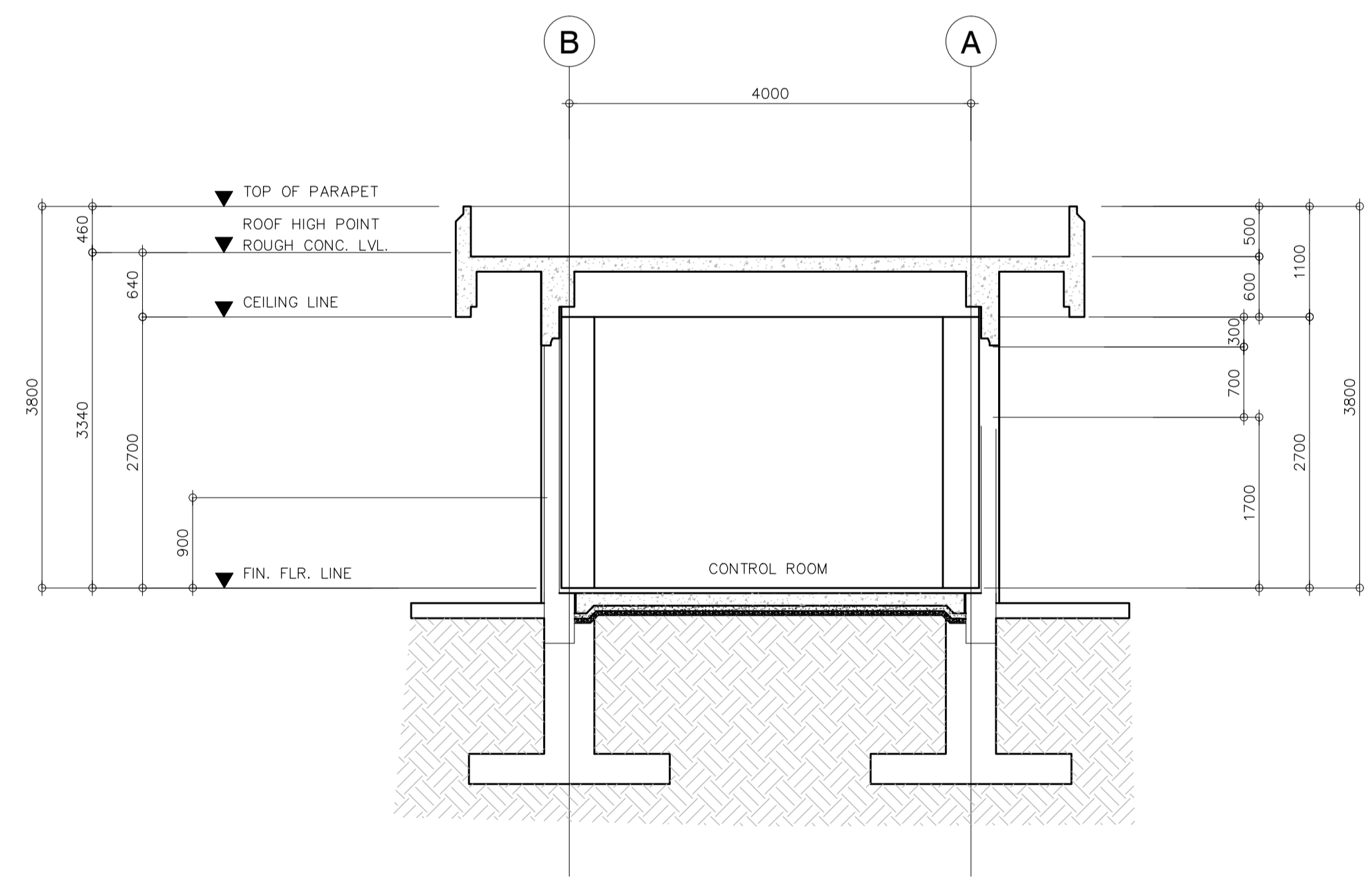
TYP. BEAM SECTION

SCHEDULE OF R.C. BEAMS																		
BEAM MARK	B (mm)	H (mm)	STEEL REINFORCEMENT											SIZE	STIRRUPS SPACING	REMARKS		
			A	B	C _L	C _R	D	E	F	G	H	J _L	J _R				K	
CG-1	300	500	2				2		2	2							REST ϕ 125	
G-1	300	500	2		5	5		2	2	3							8 ϕ 125, REST ϕ 200	
G-2	300	500	2		5	5			2	2							8 ϕ 125, REST ϕ 200	
G-3	300	500	2		5	5		2	2	3							8 ϕ 125, REST ϕ 200	
CG-3	300	500	2				2		2	2							REST ϕ 125	
CG-4	250	500	3	3	3	3	3	3	3	3							REST ϕ 125	
G-4	250	500	2		2	2			2	2							8 ϕ 125, REST ϕ 200	
B-1	200	500	2						2	2							8 ϕ 100, REST ϕ 200	
EB-1	200	500	2						2	2							REST ϕ 125	

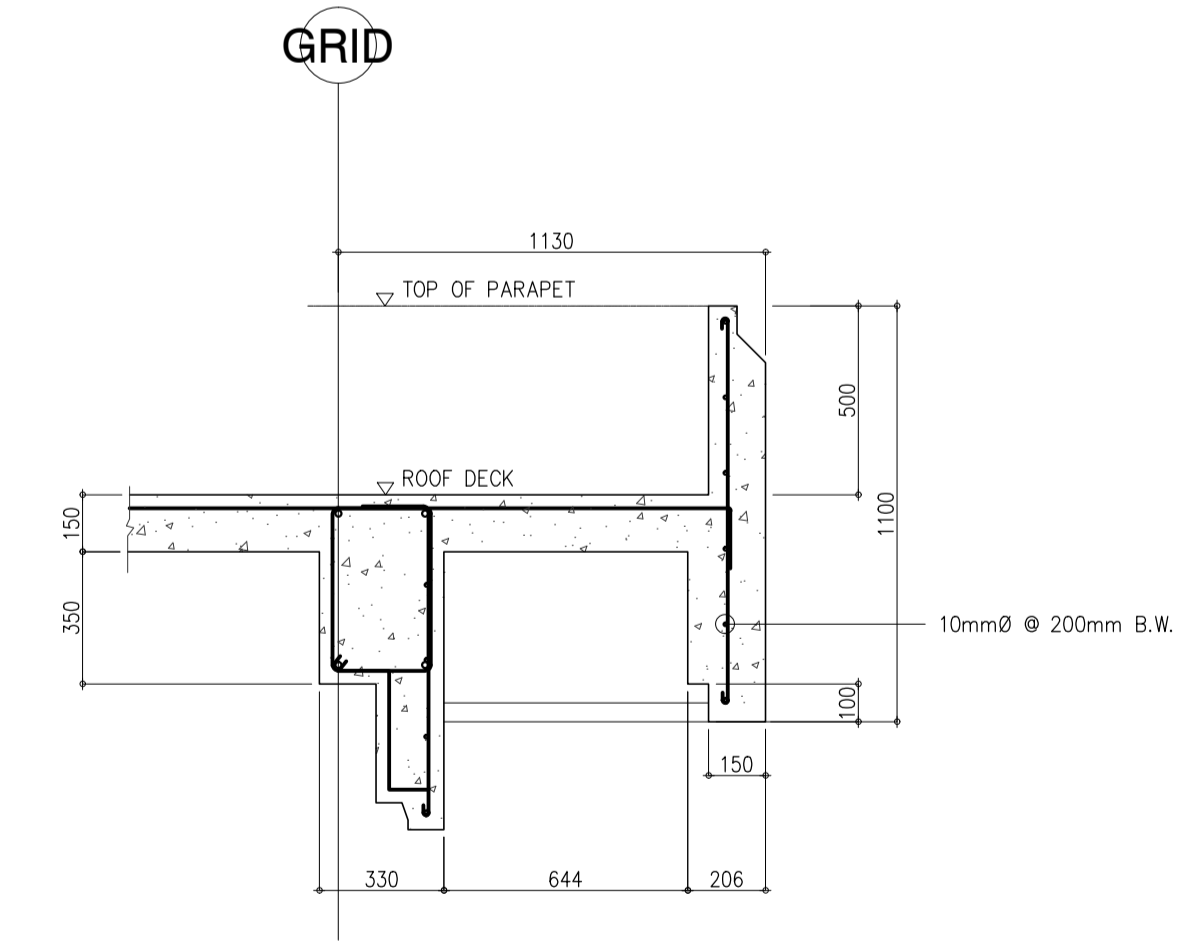
	PREPARED BY: EDGARDO C. CRUZ <small>PROF. CIVIL ENGINEER PIR. 758903B REG. NO.: 23983 DATE: JANUARY 03, 2013 T.I.N. 651-157-021 PLACE: QUEZON CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-6 : UTILITY BUILDINGS STP (SEWERAGE TREATMENT PLANT CONTROL RM) STRUCTURAL ROOF DECK FRAMING PLAN / PARAPET DET. SECTION / SCHEDULE OF R.C. BEAMS	SHEET NO: B63-4200-02 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX: AMENDMENTS Prepared by: FRS Jr. WIM IIC Checked by: Validated by:	



1 FRAME ELEVATION ALONG GRID A & B
 B63-4200-03 SCALE 1 : 50 MTS

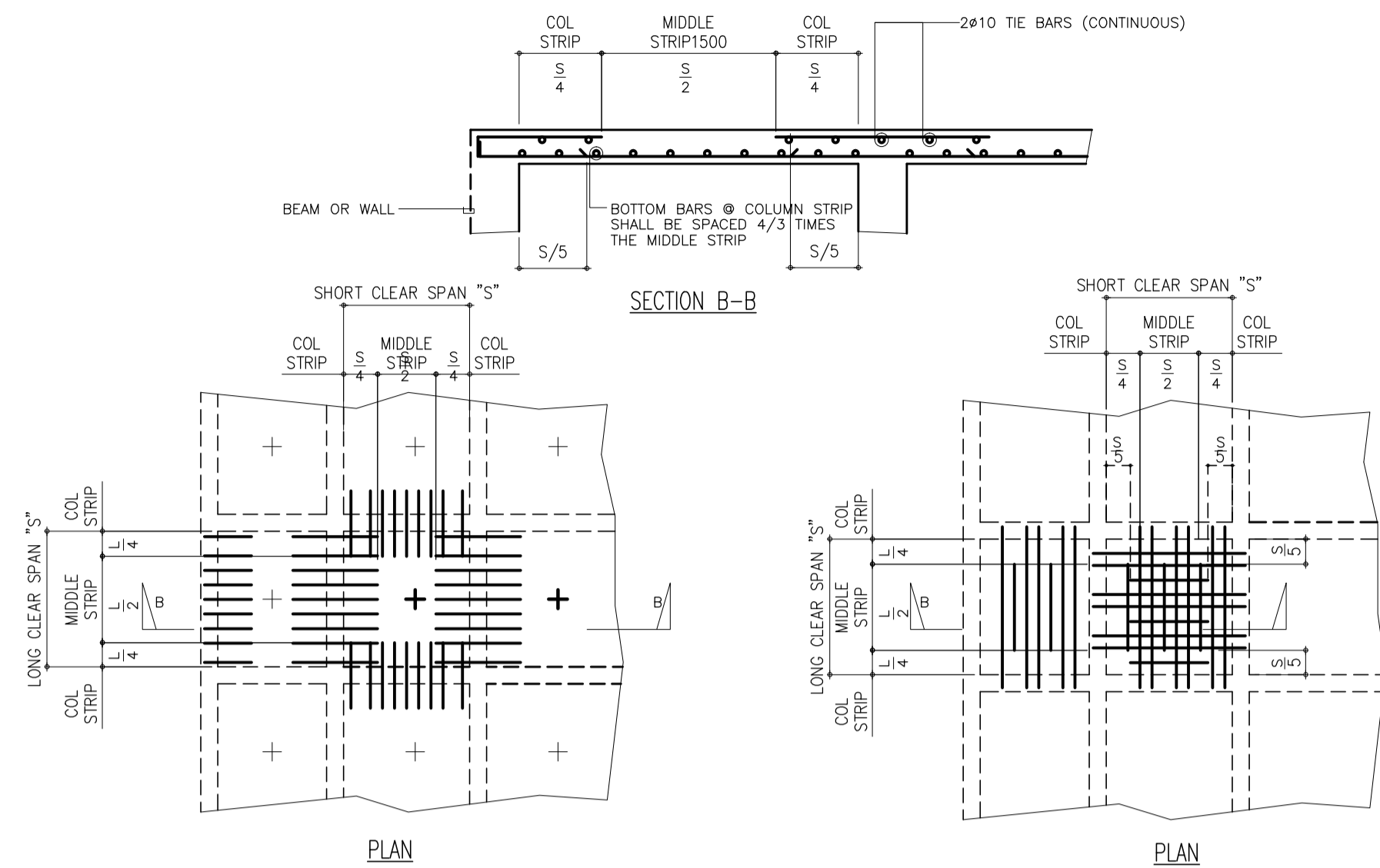


2 FRAME ELEVATION ALONG GRID 3
 B63-4200-03 SCALE 1 : 50 MTS

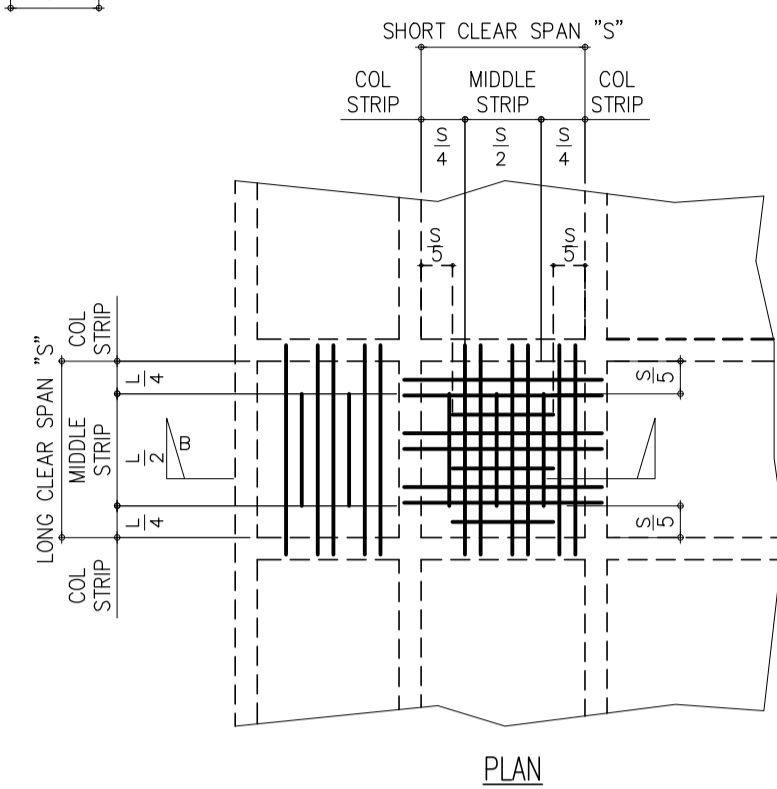


1A PARAPET DETAILED SECTION
 B63-4200-03 SCALE 1 : 20 MTS

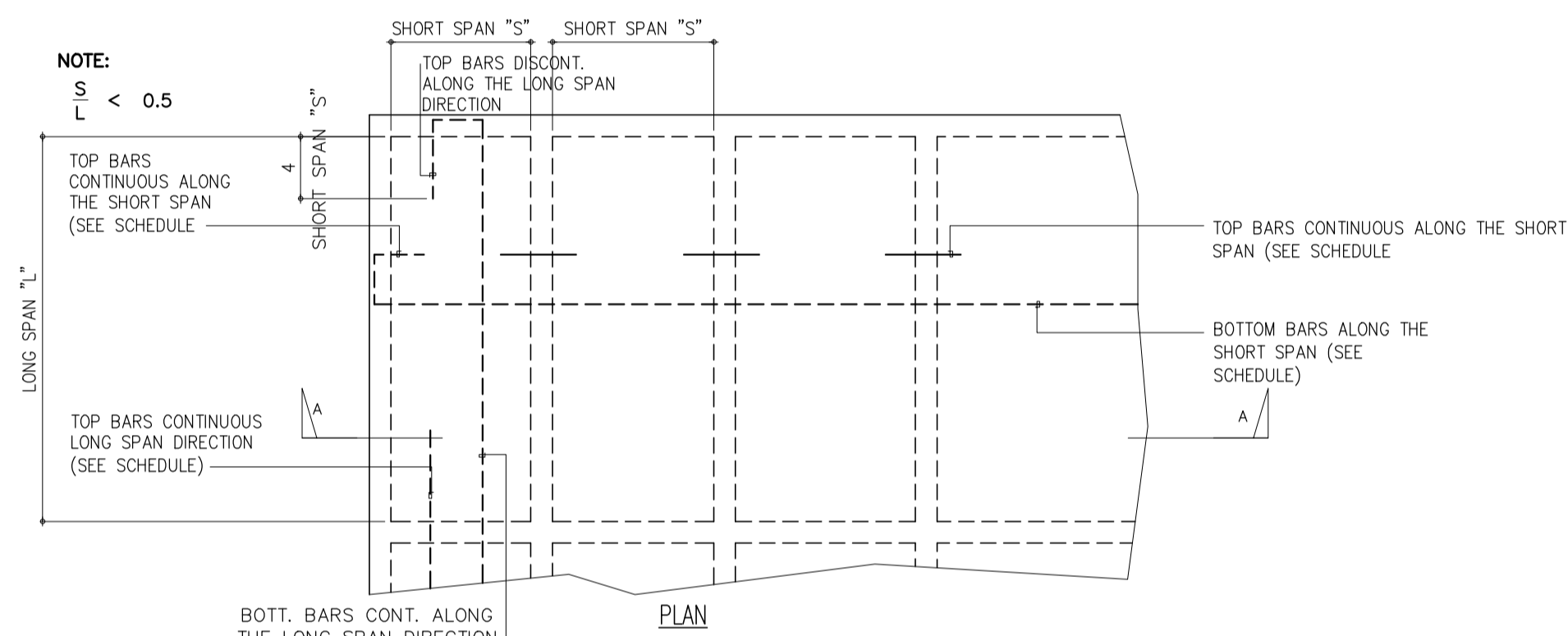
	PREPARED BY: EDGARDO C. CRUZ <small>PROF. CIVIL ENGINEER PTR. 75890238 REG. NO.: 23983 DATE: JANUARY 03, 2013 T.E.N. 651-157-021 PLACE: QUEZON CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-6 : UTILITY BUILDINGS STP (SEWERAGE TREATMENT PLANT CONTROL RM) STRUCTURAL FRAME ELEVATION @ GRID A, B & 3 PARAPET DETAIL	SHEET NO: B63-4200-03 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	JUNE 2013 DATE INDEX AMENDMENTS Prepared by: FRS Jr. WIM HC Checked by: Validated by:	



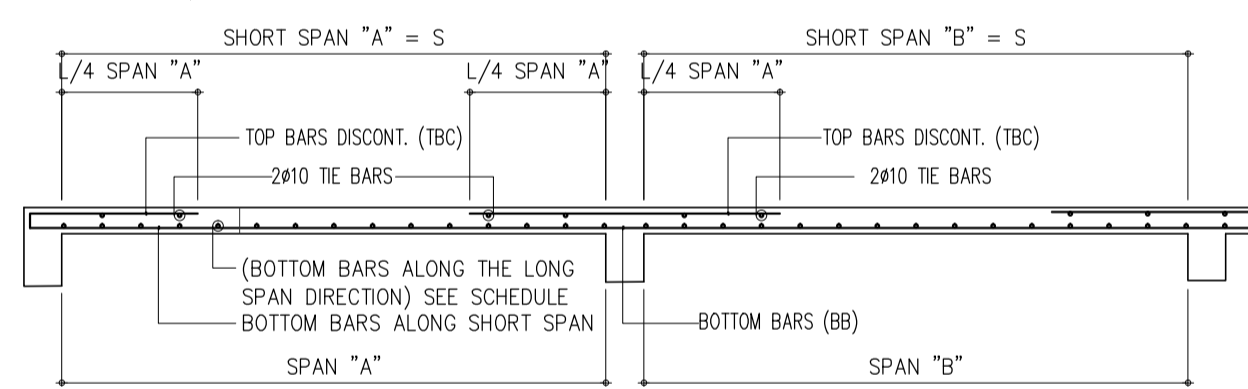
TYP. FRAMING PLAN OF TWO-WAY SLAB SHOWING TOP BAR REINFORCEMENT



TYP. FRAMING PLAN OF TWO-WAY SLAB SHOWING BOTTOM BAR REINFORCEMENT



NOTES:
1. IF TOP BARS OF ADJACENT SLABS DIFFER AT THEIR COMMON SUPPORT THE SMALLER SPACING SHALL GOVERN



NOTES:
1. IF TOP BARS OF ADJACENT SLABS DIFFER AT THEIR COMMON SUPPORT THE SMALLER SPACING SHALL GOVERN

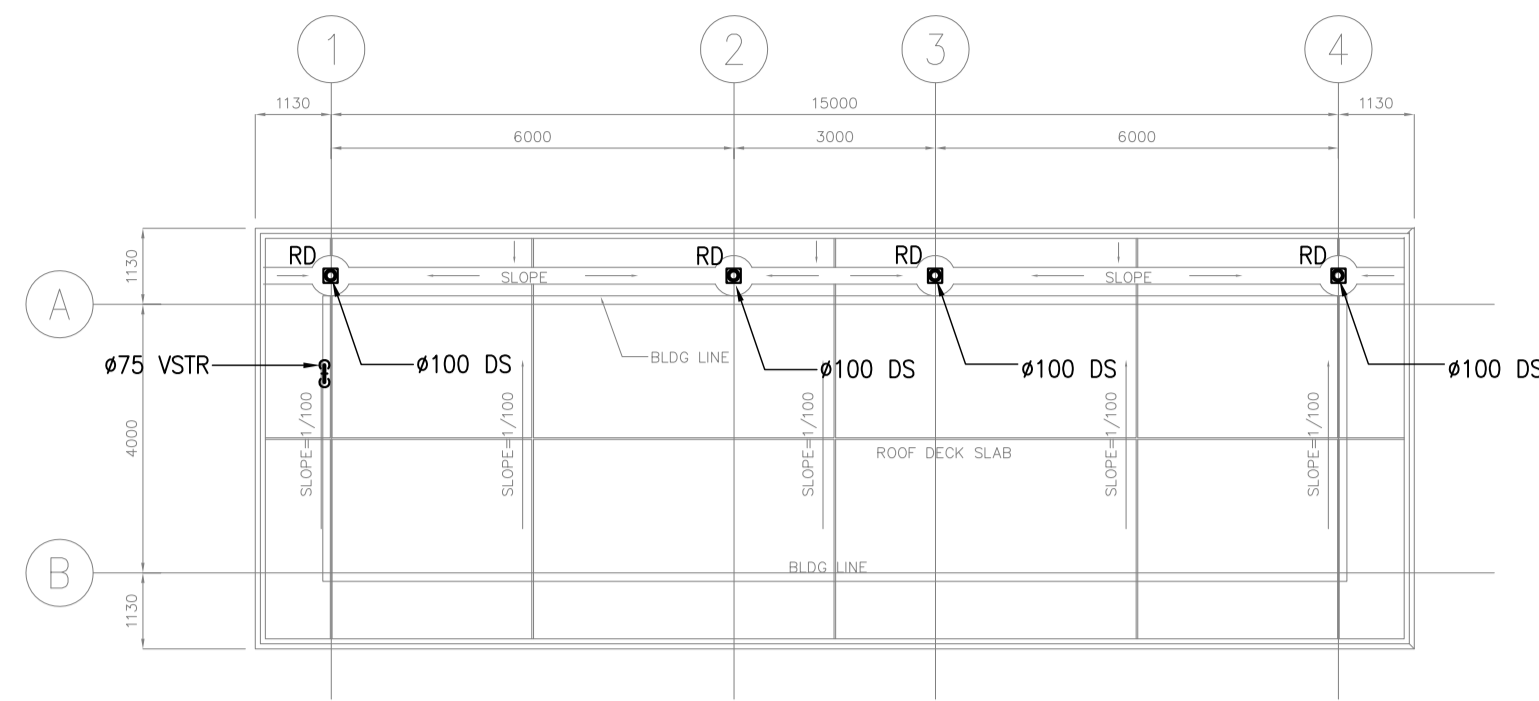
1 ELEVATION OF RC SLABS
SCALE 1 : 50

SCHEDULE OF R.C SLABS

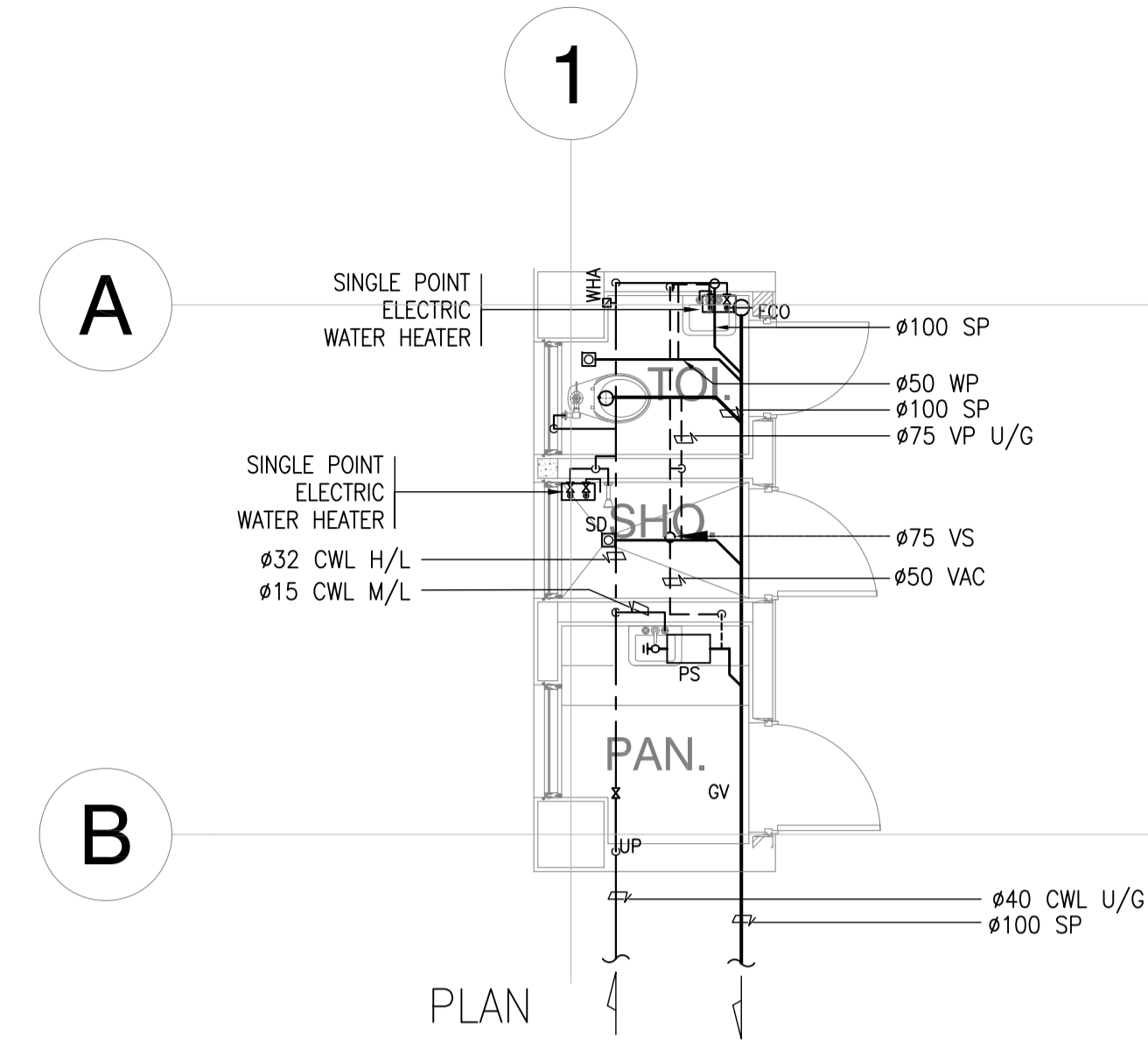
SLAB MARK	THICKNESS (mm)	BAR SIZE	SHORT DIRECTION			LONG DIRECTION			REMARKS
			BOTTOM MIDSPAN	TOP BARS		BOTTOM MIDSPAN	TOP BARS		
				CONT EDGE	DISC EDGE		CONT EDGE	DISC EDGE	
S-1	100	10mm#	250mm	125mm	250mm	250mm	125mm	250mm	TWO-WAY
S-2	100	10mm#	200mm	200mm	200mm	300mm	300mm	300mm	ONE-WAY
S-3	100	10mm#	300mm	300mm	300mm	300mm	300mm	300mm	TWO-WAY

NOTE: IF THE TOP BARS OF ADJACENT SLABS DIFFER AT COMMON SUPPORT, THE SMALLER SPACING SHALL GOVERN

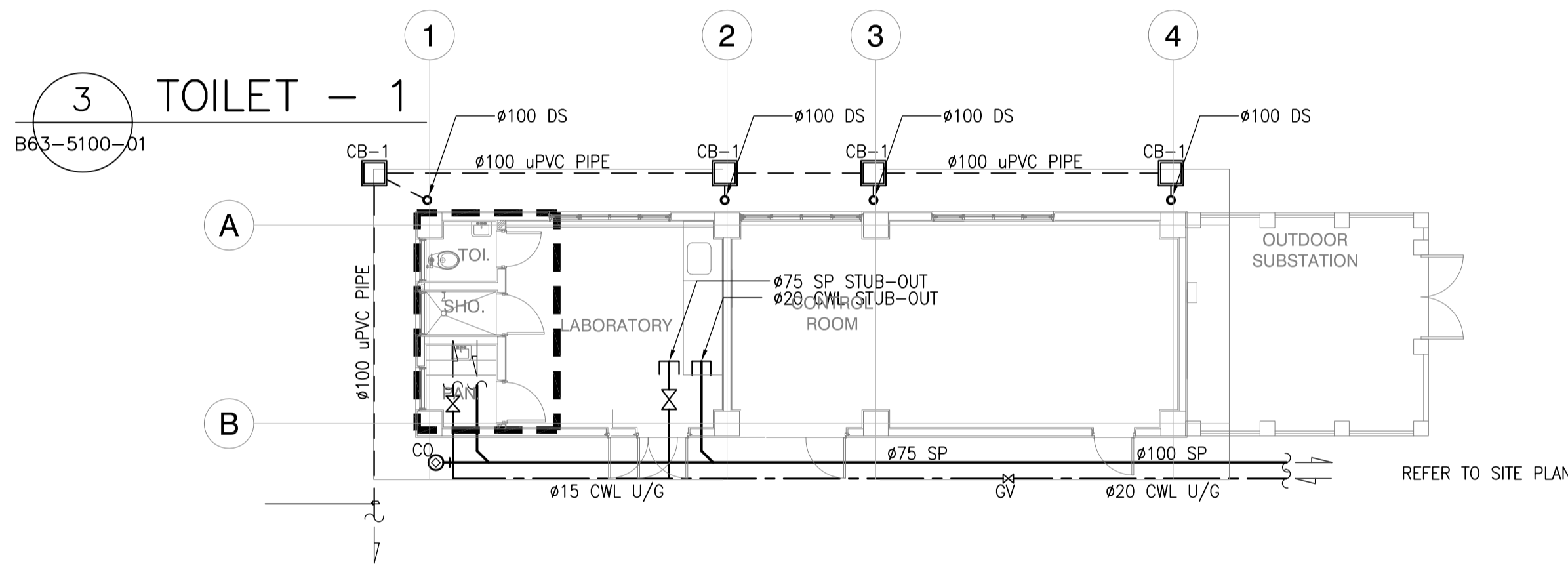
	PREPARED BY: EDGARDO C. CRUZ <small>PROF. CIVIL ENGINEER PIR. 7589023B REG. NO.: 23983 DATE: JANUARY 03, 2013 TEL. 651-157-021 PLACE: QUEZON CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-6 : UTILITY BUILDINGS STP (SEWERAGE TREATMENT PLANT CONTROL RM)	SHEET NO: B63-4200-04
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	STRUCTURAL SLAB DETAILS



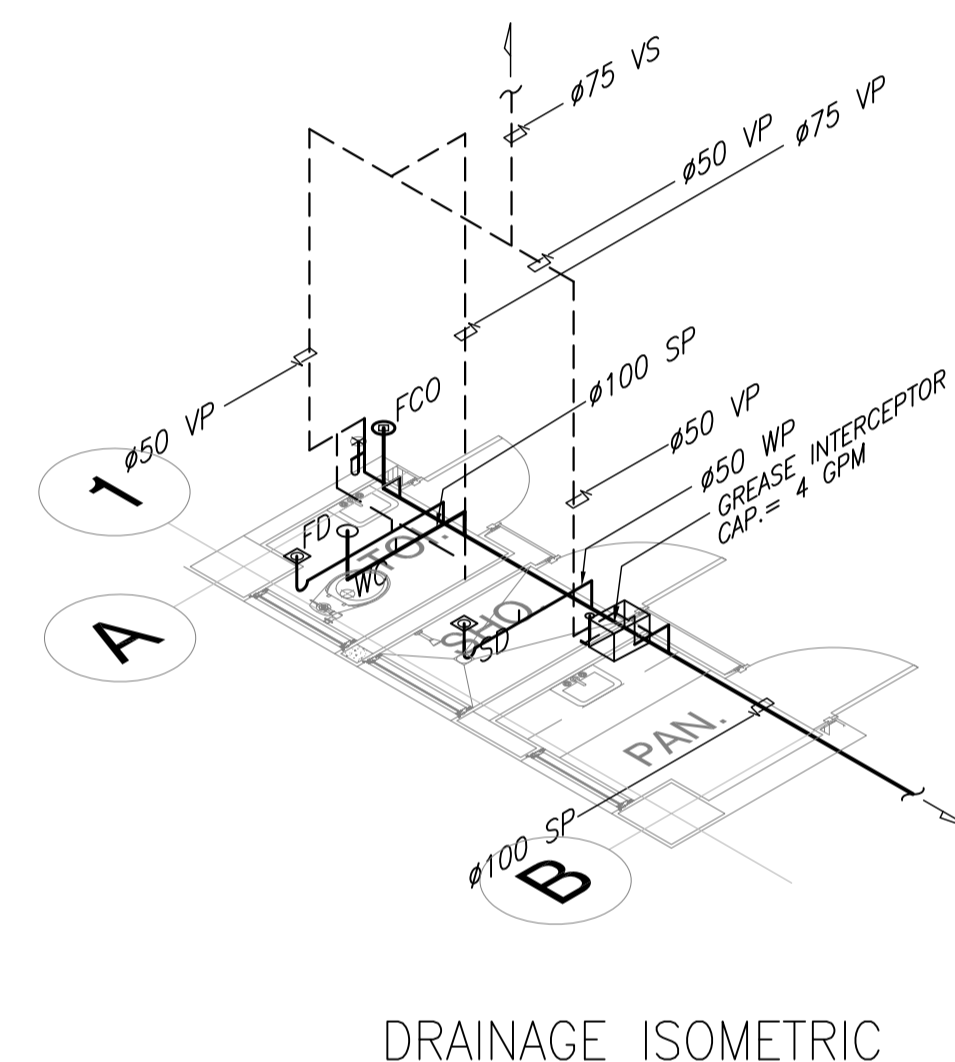
1 ROOF DECK PLUMBING PLAN
 B63-5100-01 SCALE 1:100M



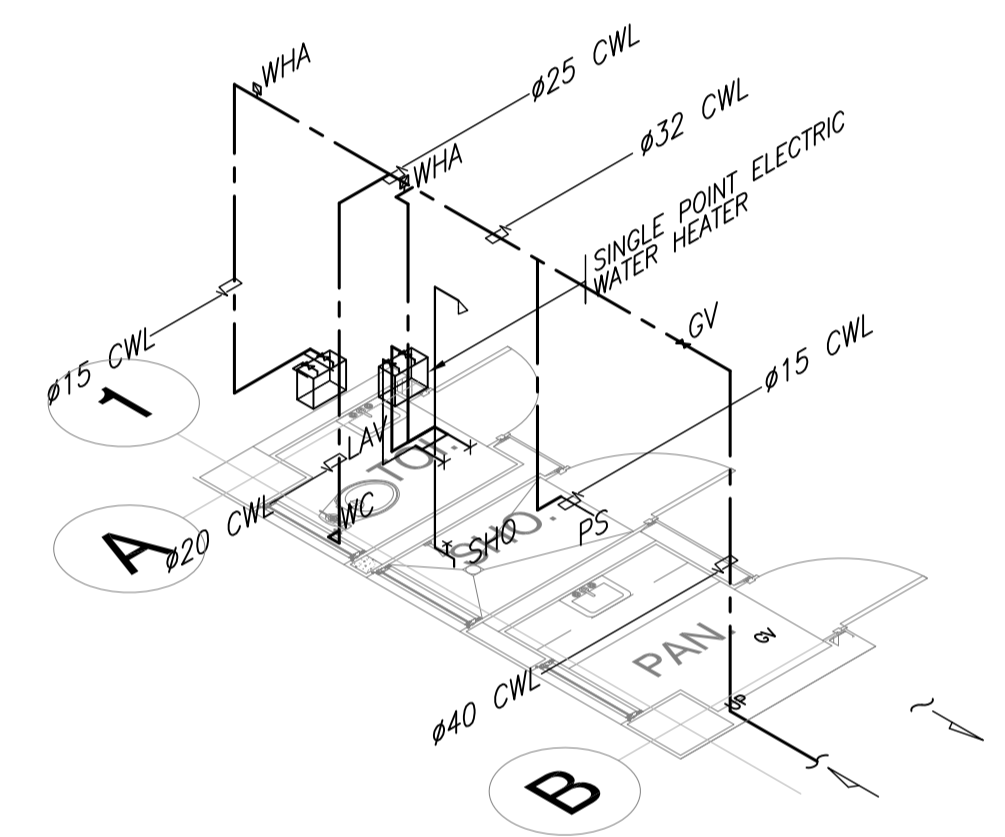
3 TOILET - 1 BLOW-UP PLAN
 B63-5100-01 SCALE 1:50M



2 GROUND FLOOR PLUMBING PLAN
 B63-5100-01 SCALE 1:100M



DRAINAGE ISOMETRIC



WATER LINE ISOMETRIC

CATCH BASIN SCHEDULE

SYMBOL	PIT NAME	PIT DIM.	PIT DEPTH	MANHOLE SPECS.	REMARKS
□	CB-1	500x500	825 (min)	R.C. Cover w/ Lifting Handle	

PLUMBING EQUIPMENT SCHEDULE

ITEMS	DESIGNATION	QTY.	TYPE	TECHNICAL SPECIFICATIONS / DESCRIPTIONS				CONTROLLERS & ACCESSORIES		LOCATION	REMARKS
				MOTOR	PHASE	HERTZ	VOLTAGE RATING	MOTOR CONTROLS	ACCESSORIES		
EW-1	ELECTRIC WATER HEATER	2	INSTANTANEOUS (SINGLE POINT)	-	SINGLE	50-60	220-240 V	-	COMPLETE WITH ACCESSORIES	EACH SHOWER	-

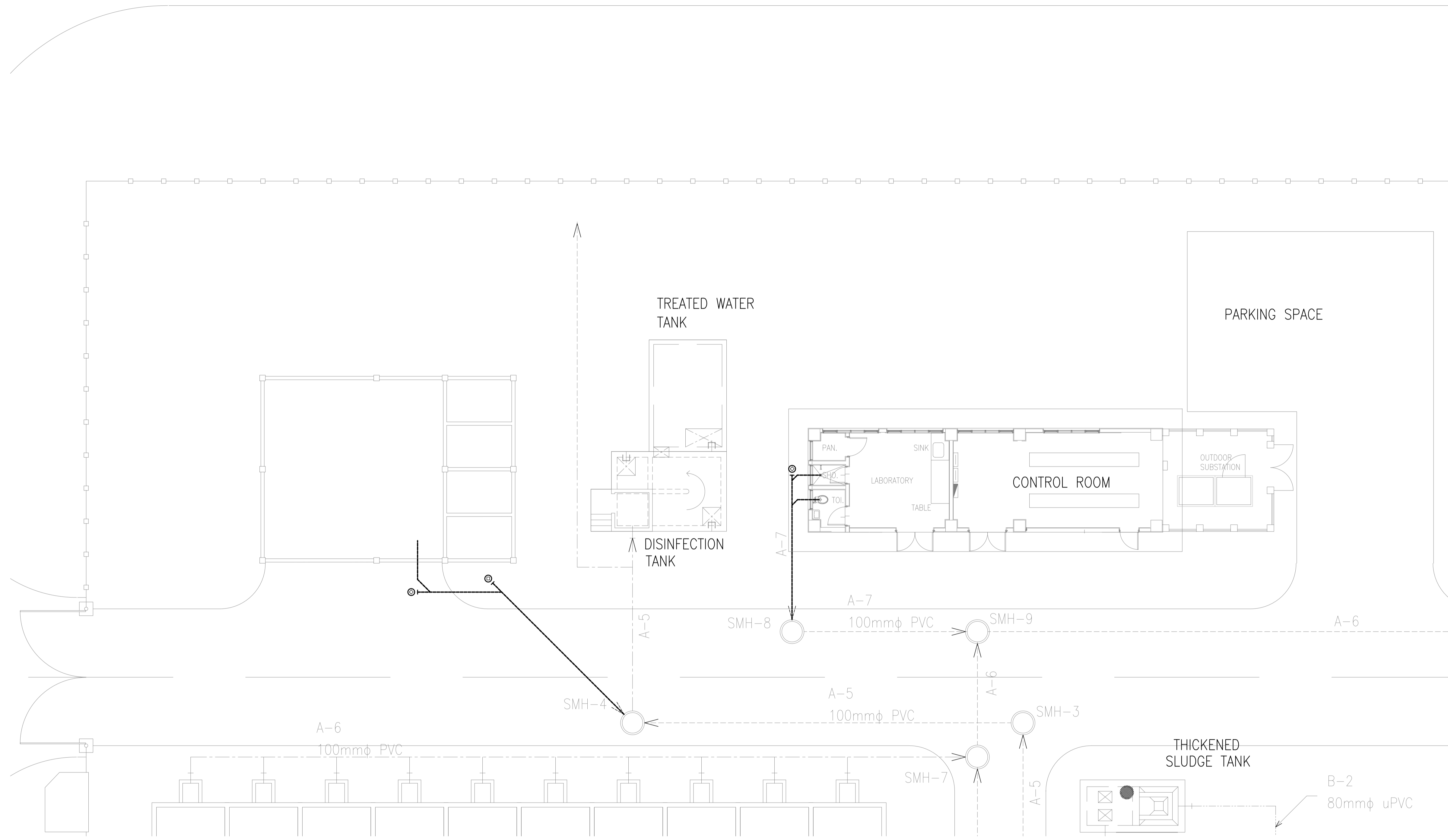
SANITARY FIXTURE SCHEDULE

SYMBOL	SANITARY FIXTURE NAME	REFERENCED MODEL NO.	Q'TY	REMARKS
WC-3	WATER CLOSET	-	1	
LAV-4	LAVATORY	-	1	
SHO	SHOWER	-	1	
PS	PANTRY SINK FAUCET	-	1	
TPH	TOILET PAPER HOLDER	-	1	
	SOAP HOLDER	-	1	

NOTE : SANITARY FIXTURE SHALL HAVE MANUFACTURER'S STANDARD ACCESSORIES.

	PREPARED BY: LEOVIMEL J. VINELES <small>Philippine Registered Engineer</small> PROF. SANITARY ENGINEER PIR. 2024236 REG. NO. 0002435 DATE: 07-09-2013 T.I.N. 237-652-602-000 PLACE: MANILA	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B63) STP CONTROL ROOM MECHANICAL SANITARY AND PLUMBING GROUND & ROOF DECK PLUMBING PLAN, TOILET 1 BLOW-UP PLAN, PLUMBING EQUIP'T. SCHED. & SANITARY FIXTURE SCHED.	SHEET NO: B63-5100-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	DATE: JUNE 2013 INDEX: AMENDMENTS Prepared by: WIM Checked by: IIC Validated by:				

LEGEND:	
---	SEWAGE
---	SLUDGE
---	UTILITY WATER (TREATED EFFLUENT)



1 **SOIL AND WASTE PIPE LAYOUT**
B63-5100-02 SCALE 1:100M

	PREPARED BY: LEOVIMEL J. VINELES <small>Philippine Registered Engineer</small> PROF. SANITARY ENGINEER PTR. 2024236 REG. NO. 0002435 DATE: 07-09-2013 T.I.N. 237-652-602-000 PLACE: MANILA	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B63) STP CONTROL ROOM MECHANICAL SANITARY AND PLUMBING SOIL AND WASTE PIPE LAYOUT	SHEET NO: B63-5100-02 DRAWING SCALE: 1:150M
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	JUNE 2013 DATE INDEX AMENDMENTS Prepared by WIM HIC Checked by Validated by				

SEWAGE TREATMENT PLANT
SPLIT TYPE AIR CONDITIONING UNIT:

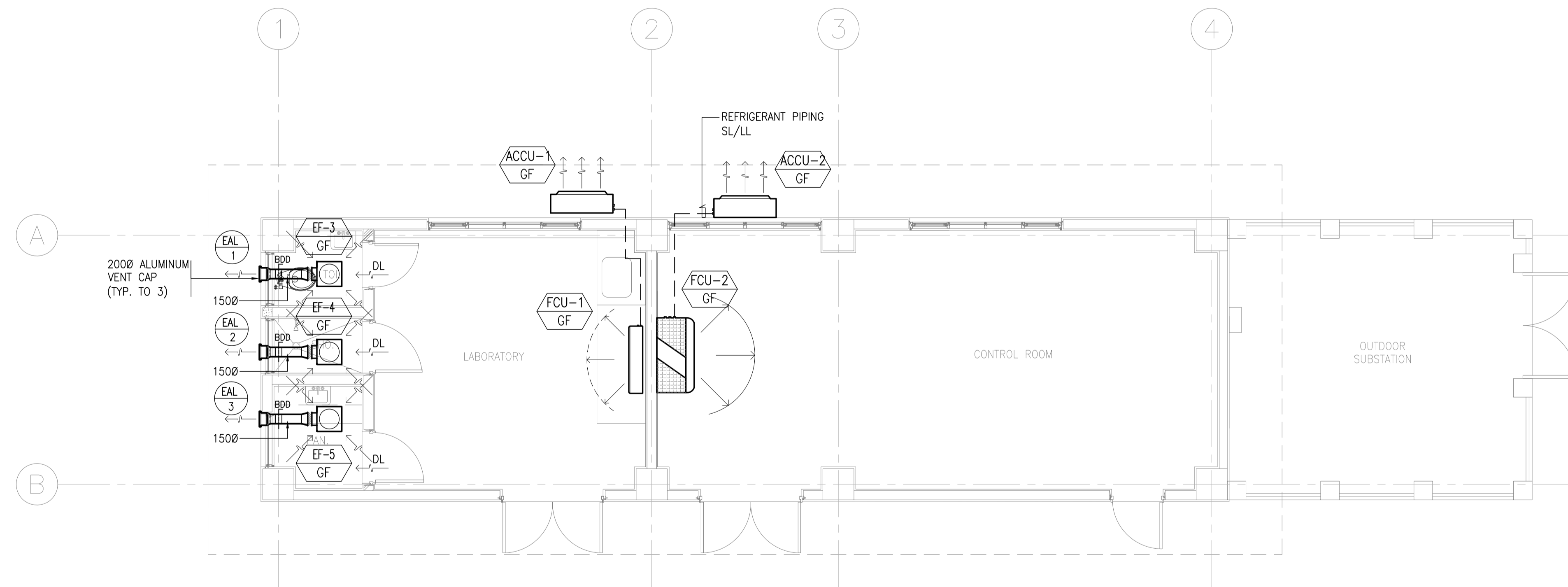
UNIT DESIGNATIONS		EQUIPMENT	AREA SERVED	QUANTITY	EQUIPMENT		REFRIGERANT TYPE	ELECTRICAL CHARACTERISTICS				TYPE
INDOOR UNIT	OUTDOOR UNIT				TOTAL COOLING CAPACITY (kW)	AIR FLOW RATE (lps)		POWER INPUT (W)	VOLTS	PHASE	HERTZ	
FCU-1 GF	ACCU-1 GF	FAN COIL UNIT	LABORATORY	1	3.51	200	R410A	1210	230	1	60	WALL MOUNTED
FCU-2 GF	ACCU-2 GF	FAN COIL UNIT	CONTROL ROOM	1	7	300	R410A	2500	230	1	60	CEILING SUSPENDED

EXHAUST FAN:

UNIT DESIGNATION	EQUIPMENT	AREA SERVED	QUANTITY	EQUIPMENT AIRFLOW (lps)	STATIC PRESSURE (Pa)	POWER INPUT (W)	ELECTRICAL CHARACTERISTICS			TYPE OF FAN
							VOLTS	PHASE	HERTZ	
EF-1 GF	EXHAUST FAN	TOILET	1	25	48	30	230	1	60	CEILING CASSETTE
EF-2 GF	EXHAUST FAN	SHOWER ROOM	1	15	48	30	230	1	60	CEILING CASSETTE
EF-3 GF	EXHAUST FAN	PANTRY	1	20	48	30	230	1	60	CEILING CASSETTE

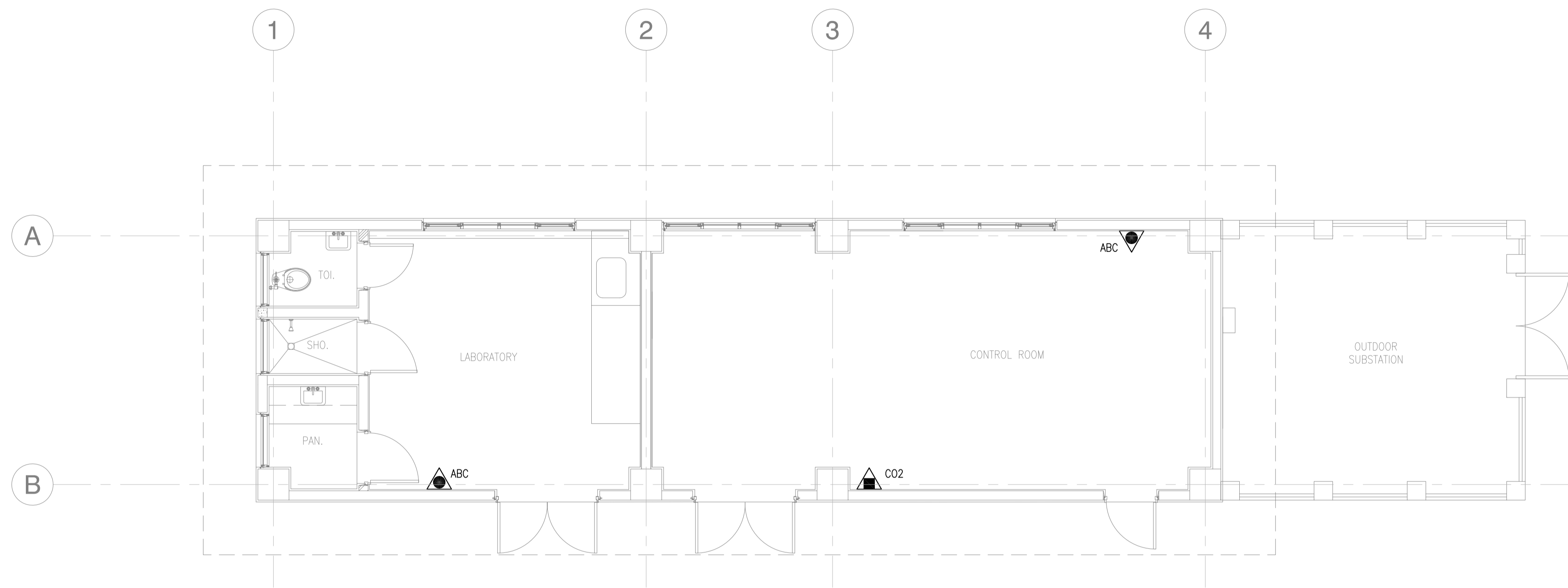
AIR TERMINAL DEVICES:

AIR TERMINAL DEVICE DESIGNATION	LOCATION	LEVEL	SERVICE	QUANTITY	TOTAL AIR FLOWRATE (lps)	TYPE	AIR FLOWRATE PER TERMINAL DEVICE (lps)	DIMENSION DIAMETER (mm)	REMARKS
EAL 3	TOILET	GROUND FLOOR	EXHAUST AIR	1	25	EXHAUST AIR LOUVER	25	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER
EAL 4	SHOWER	GROUND FLOOR	EXHAUST AIR	1	15	EXHAUST AIR LOUVER	15	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER
EAL 5	PANTRY	GROUND FLOOR	EXHAUST AIR	1	20	EXHAUST AIR LOUVER	20	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER



SEWAGE TREATMENT PLANT
AIR-CONDITIONING AND VENTILATION LAYOUT
1
B63-5300-01 SCALE 1:50M

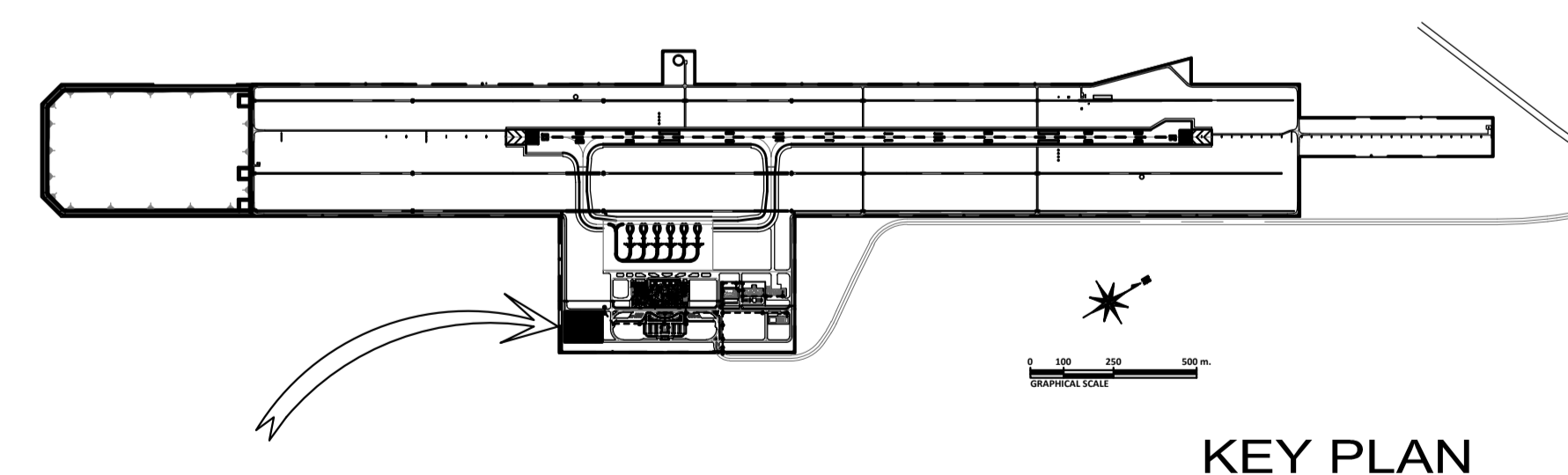
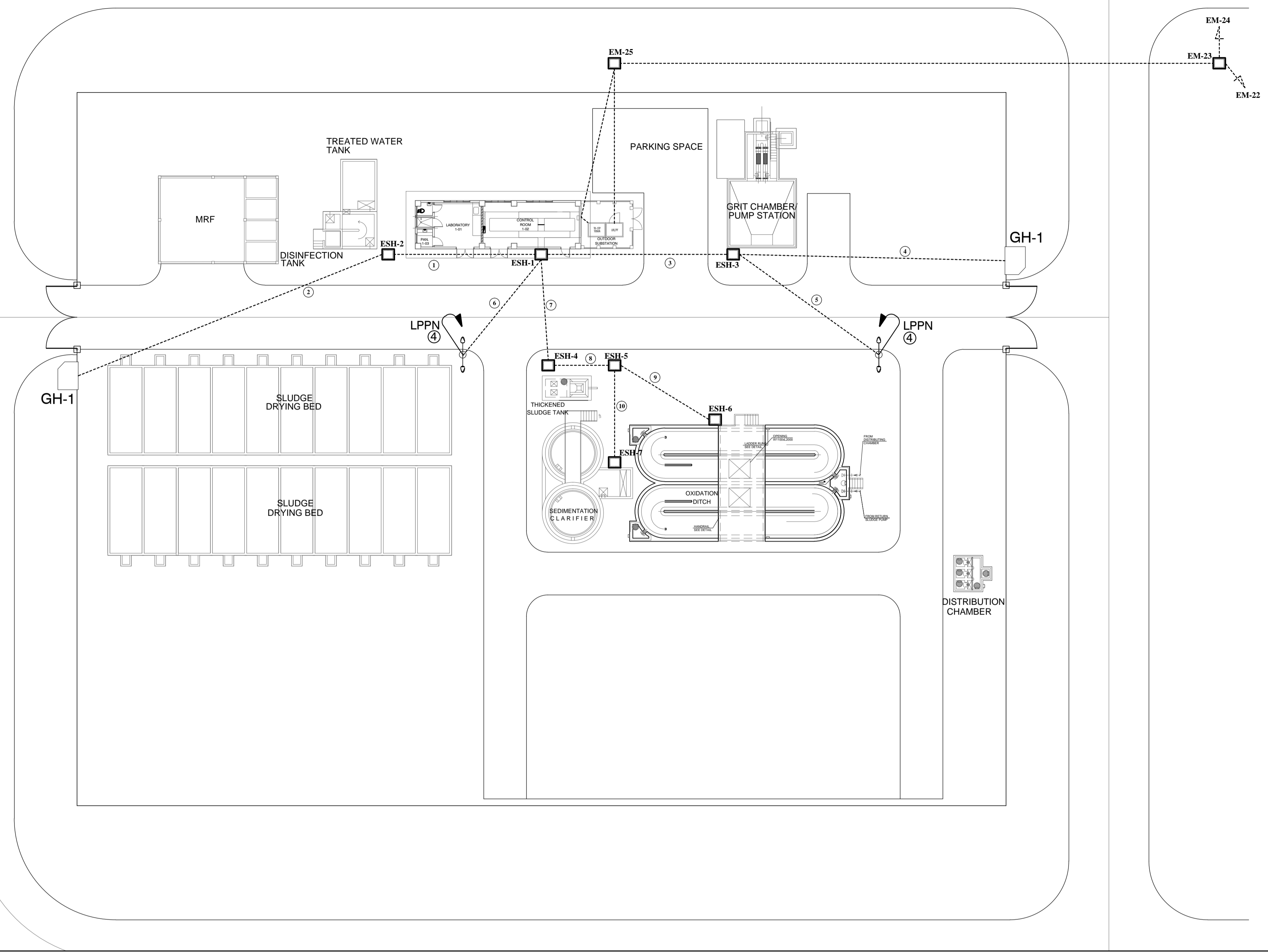
	PREPARED BY: RENATO A. ARRIOLA Filipino Registered Engineer PROF. NO: 2379 PIR. 1725187 REG. NO: 2379 DATE: JANUARY 07, 2013 T.I.N. 150-563-379 PLACE: TAGBILAR CITY	RECOMMENDING APPROVAL: JILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B63) STP CONTROL ROOM MECHANICAL VENTILATION AND AIR-CONDITIONING AIR-CONDITIONING AND VENTILATION LAYOUT	SHEET NO: B63-5200-01 DRAWING SCALE: 1:150M
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.	DATE: JUNE 2013 INDEX: AMENDMENTS Prepared by: WIM Checked by: IIC Validated by:				



1
 663-5300-01 SCALE 1:50M

LEGEND:	
	4.5 KG. FIRE EXTINGUISHER DRY CHEMICAL
	23.0 KG. FIRE EXTINGUISHER CARBON DIOXIDE

	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS		JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: RENATO A. ARRIOLA <small>Filipino Registered Engineer</small> <small>PROF. MECHANICAL ENGINEER PTR. 1725187</small> <small>REG. NO. 2379 DATE: JANUARY 07, 2013</small> <small>T.I.N. 150-563-379 PLACE: TAGBILAR CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO I. PATDU, JR. <small>Assistant Secretary</small> <small>for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary</small> <small>for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT <small>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES</small>	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B63) STP CONTROL ROOM MECHANICAL FIRE PROTECTION STP FIRE PROTECTION LAYOUT	SHEET NO: B63-5300-01 DRAWING SCALE: 1:50M
JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC.		NIPPON KOEI CO., LTD.		NJS CONSULTANTS CO., LTD.		TADASHI AOI <small>Team Leader</small>	DATE INDEX AMENDMENTS JUNE 2013	Prepared by: WIM Checked by: HC Validated by:	

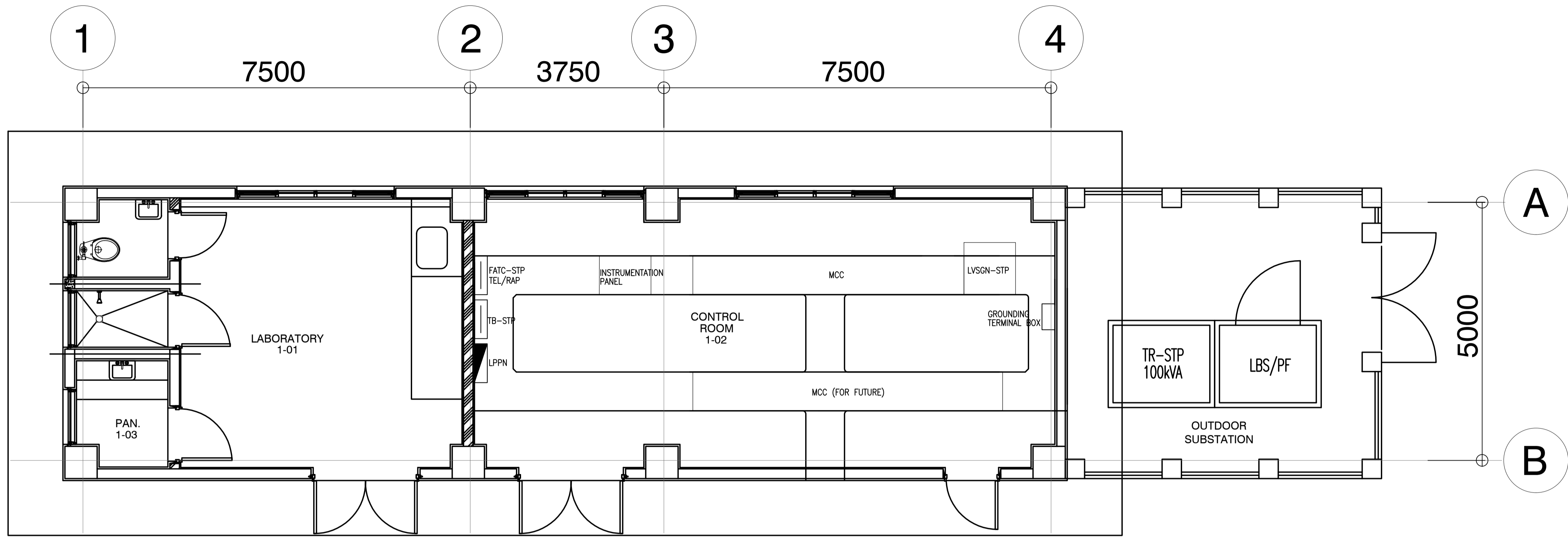


KEY PLAN
NOT TO SCALE

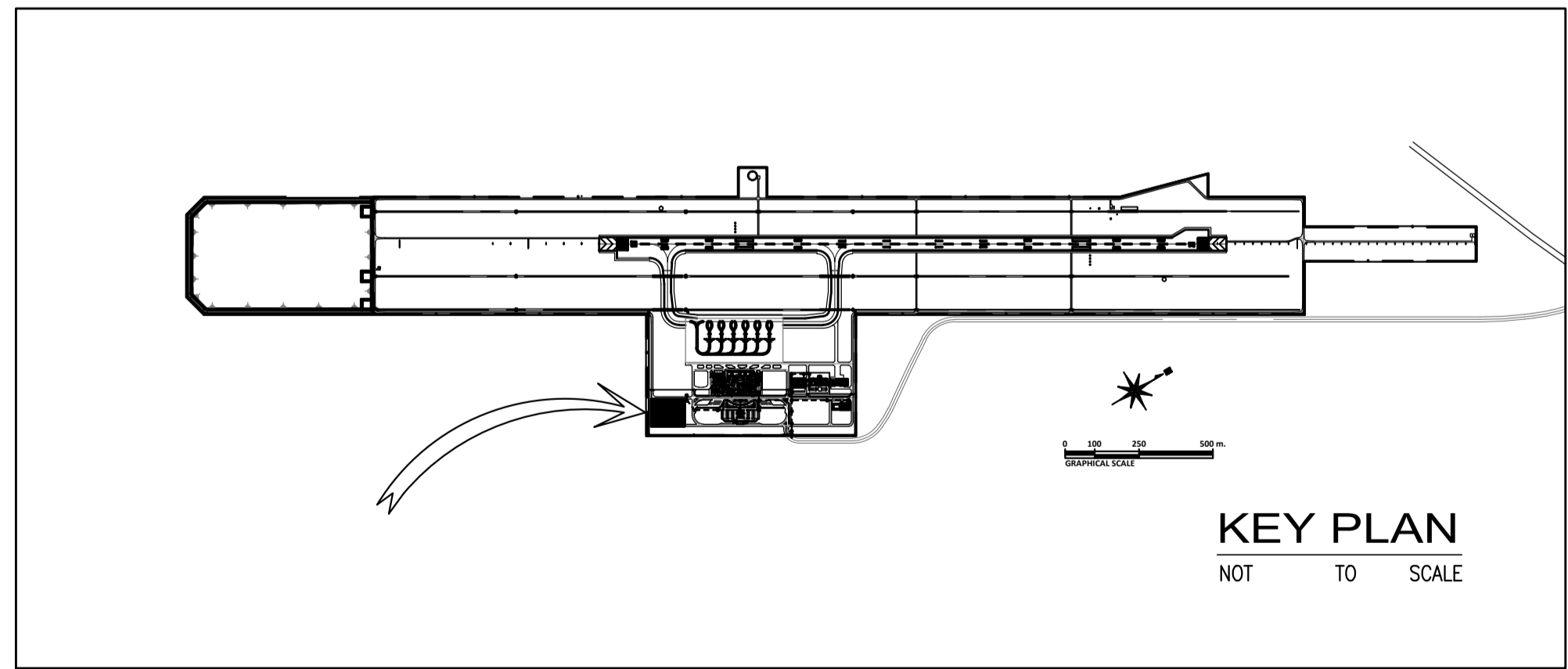
1 STP FACILITIES LAYOUT
B63-6000-01 GRAPHICAL SCALE

Section	Classification of cable	Conduit	Remarks
	STP Power Cable	PVC50 x 1	
	STP Power Cable	PVC50 x 1	
①	STP Power Cable	PVC50 x 1	
	STP Power Cable	PVC50 x 1	
	2 - 5.5mm THHN Cable (To GH)	PVC32 x 1	
②	2 - 5.5mm THHN Cable (To GH)	PVC32 x 1	
	STP Power Cable	PVC75 x 1	
③	STP Power Cable	PVC50 x 1	
	STP Power Cable	PVC50 x 1	
	2 - 5.5mm THHN Cable (To GH)	PVC100 x 1	
	2 - 5.5mm THHN Cable (To Road Light)	PVC32 x 1	
④	2 - 5.5mm THHN Cable (To GH)	PVC32 x 1	
⑤	2 - 5.5mm THHN Cable (To Road Light)	PVC32 x 1	
⑥	2 - 5.5mm THHN Cable (To Road Light)	PVC32 x 1	
⑦	STP Power Cable	PVC75 x 3	
	STP Power Cable	PVC50 x 6	
⑧	STP Power Cable	PVC75 x 3	
	STP Power Cable	PVC50 x 6	
⑨	STP Power Cable	PVC50 x 4	
	STP Power Cable	PVC75 x 2	
⑩	STP Power Cable	PVC50 x 2	

	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: TEODORO N. PAMATMAT PROF. ELECTRICAL ENGINEER PIR. 1403773 REG. NO.: 1927 DATE: 1-04-13 PLAN: 119-747-900 PLACE: MANILA	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL	SHEET NO: B63-6100-01
	JICA DESIGN CONSULTANT JOINT VENTURE	JAC JAPAN AIRPORT CONSULTANTS, INC.	NIPPON KOEI CO., LTD.	TADASHI AOI Team Leader	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX AMENDMENTS Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN



1 STP EQUIPMENT LAYOUT
 B63-6000-01 GRAPHIC SCALE



	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL CONTROL ROOM EQUIPMENT LAYOUT	SHEET NO: B63-6100-02 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	

SEWAGE TREATMENT PLANT
SPLIT TYPE AIR CONDITIONING UNIT:

UNIT DESIGNATIONS		EQUIPMENT	AREA SERVED	QUANTITY	EQUIPMENT		REFRIGERANT TYPE	ELECTRICAL CHARACTERISTICS				TYPE
INDOOR UNIT	OUTDOOR UNIT				TOTAL COOLING CAPACITY (kW)	AIR FLOW RATE (lps)		POWER INPUT (W)	VOLTS	PHASE	HERTZ	
FCU-1 GF	ACCU-1 GF	FAN COIL UNIT	LABORATORY	1	3.51	200	R410A	1210	230	1	60	WALL MOUNTED
FCU-2 GF	ACCU-2 GF	FAN COIL UNIT	CONTROL ROOM	1	7	300	R410A	2500	230	1	60	CEILING SUSPENDED

EXHAUST FAN:

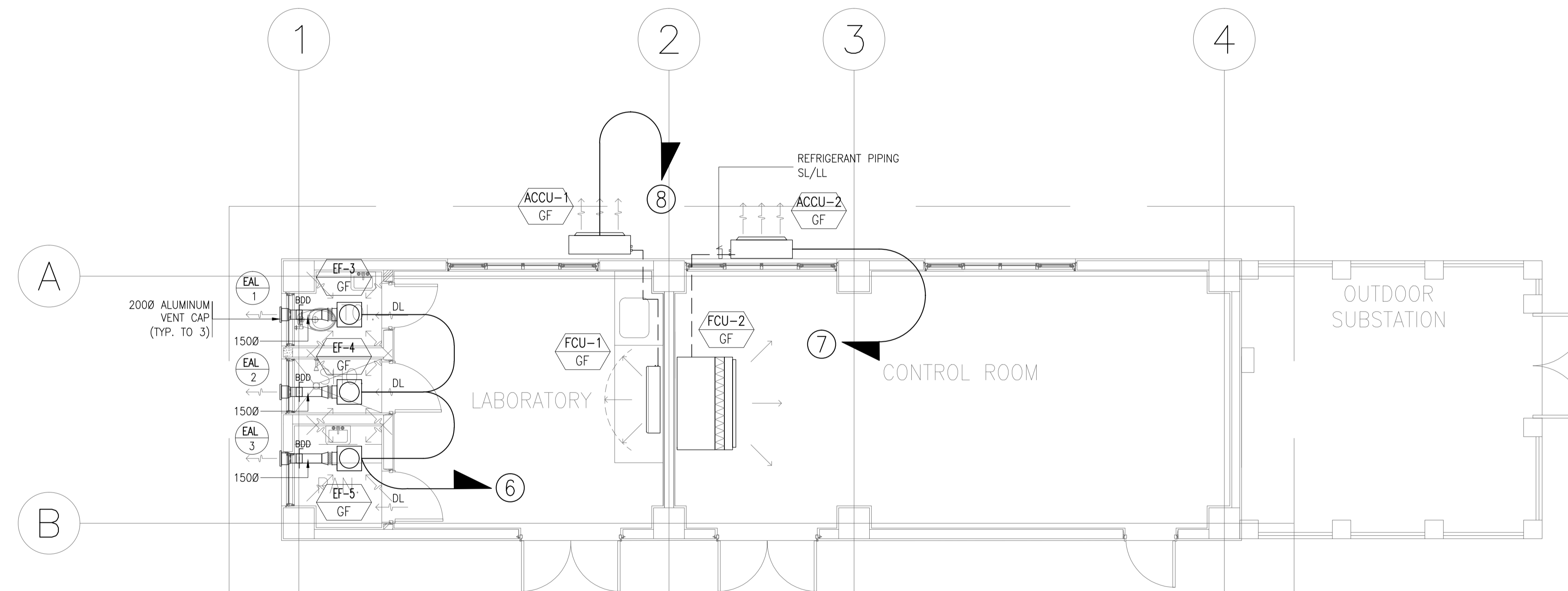
UNIT DESIGNATION	EQUIPMENT	AREA SERVED	QUANTITY	EQUIPMENT AIRFLOW (lps)	STATIC PRESSURE (Pa)	POWER INPUT (W)	ELECTRICAL CHARACTERISTICS			TYPE OF FAN
							VOLTS	PHASE	HERTZ	
EF-1 GF	EXHAUST FAN	TOILET	1	25	48	30	230	1	60	CEILING CASSETTE
EF-2 GF	EXHAUST FAN	SHOWER ROOM	1	15	48	30	230	1	60	CEILING CASSETTE
EF-3 GF	EXHAUST FAN	PANTRY	1	20	48	30	230	1	60	CEILING CASSETTE

AIR TERMINAL DEVICES:

AIR TERMINAL DEVICE DESIGNATION	LOCATION	LEVEL	SERVICE	QUANTITY	TOTAL AIR FLOWRATE (lps)	TYPE	AIR FLOWRATE PER TERMINAL DEVICE (lps)	DIMENSION DIAMETER (mm)	REMARKS
EAL 3	TOILET	GROUND FLOOR	EXHAUST AIR	1	25	EXHAUST AIR LOUVER	25	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER
EAL 4	SHOWER	GROUND FLOOR	EXHAUST AIR	1	15	EXHAUST AIR LOUVER	15	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER
EAL 5	PANTRY	GROUND FLOOR	EXHAUST AIR	1	20	EXHAUST AIR LOUVER	20	200	WEATHER PROOF W/ INTEGRAL BACKDRAFT DAMPER

2 SEWAGE TREATMENT PLANT
AIR TERMINAL SCHEDULE
B63-5200-01 SCALE NTS

1 SEWAGE TREATMENT PLANT
EQUIPMENT SCHEDULE
B63-5200-01 SCALE NTS



3 SEWAGE TREATMENT PLANT
AIR-CONDITIONING AND VENTILATION LAYOUT
B63-5200-01 SCALE 1:50M.

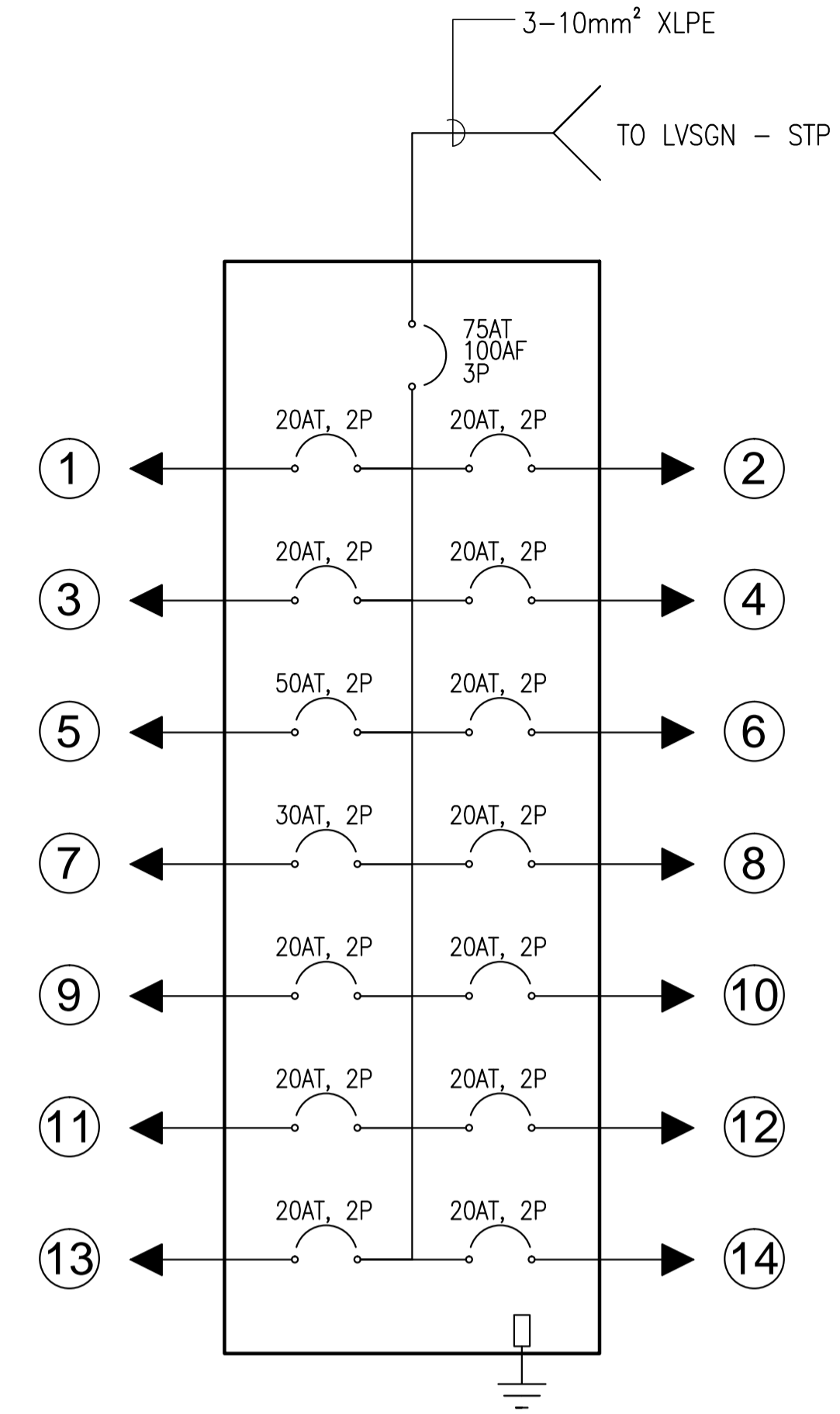
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>TIN. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL PWR FEEDER LAYOUT	SHEET NO: B63-6100-03
	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN

PANEL: LPPN-STP		VOLTAGE: 230V 3ø 3W		SUPPLY: NORMAL				
TO: LVSGN-STP								
CKT NO.	LOAD DESCRIPTION	VA	AMPERE LOAD			WIRE	CONDUIT	PROTECTION
			øAB	øBC	øCA 3ø LOAD			
1	10 - 4-18W FLUORESCENT LAMP	1327		5.76		3-3.5mm ² THHN	20mmø	20AT, 2P CB
	4 - 2x36W FLUORESCENT LAMP					3-3.5mm ² THHN	20mmø	
	3 - 18W PINLIGHT					3-3.5mm ² THHN	20mmø	
2	3 - DUPLEX OUTLET	1080		4.69		3-3.5mm ² THHN	20mmø	20AT, 2P CB
3	3 - DUPLEX OUTLET	1080		4.69		3-3.5mm ² THHN	20mmø	20AT, 2P CB
4	2 - DOUBLE ARM LIGHTING POST (12m HIGH) W/ 120W LED LAMP/FIXTURE	600			2.6	3-3.5mm ² THHN	20mmø	20AT, 2P CB
5	SHOWER OUTLET	5625	24.45			3-5.5mm ² THHN	20mmø	50AT, 2P CB
6	3 - 32W EF	120			0.52	3-3.5mm ² THHN	20mmø	20AT, 2P CB
7	1 - 2500W ACCU	3125			13.58	3-5.5mm ² THHN	20mmø	30AT, 2P CB
8	1 - 1200W ACCU	1500		6.52		3-3.5mm ² THHN	20mmø	20AT, 2P CB
9	CB @ GH1-STP-1 (2 - 18W PLC + 2-CONV. RECEP. + 47W TF)	824		3.58		3-3.5mm ² THHN	20mmø	20AT, 2P CB
10	CB @ GH1-STP-2 (2 - 18W PLC + 2-CONV. RECEP. + 47W TF)	824			3.58	3-3.5mm ² THHN	20mmø	20AT, 2P CB
11	4 - 18W FLUORESCENT LAMP FOR MRF	90			0.39	3-3.5mm ² THHN	20mmø	20AT, 2P CB
12	1 - DUPLEX OUTLET (WATERPROOF TYPE) FOR MRF	360			1.56	3-3.5mm ² THHN	20mmø	20AT, 2P CB
13	1 - 47W EF FOR MRF	59			0.26	3-3.5mm ² THHN	20mmø	20AT, 2P CB
14	SPARE	500			2.17	3-3.5mm ² THHN	20mmø	20AT, 2P CB
			24.45	25.24	24.66			

It = 25.24 x 1.732 = 43.72A

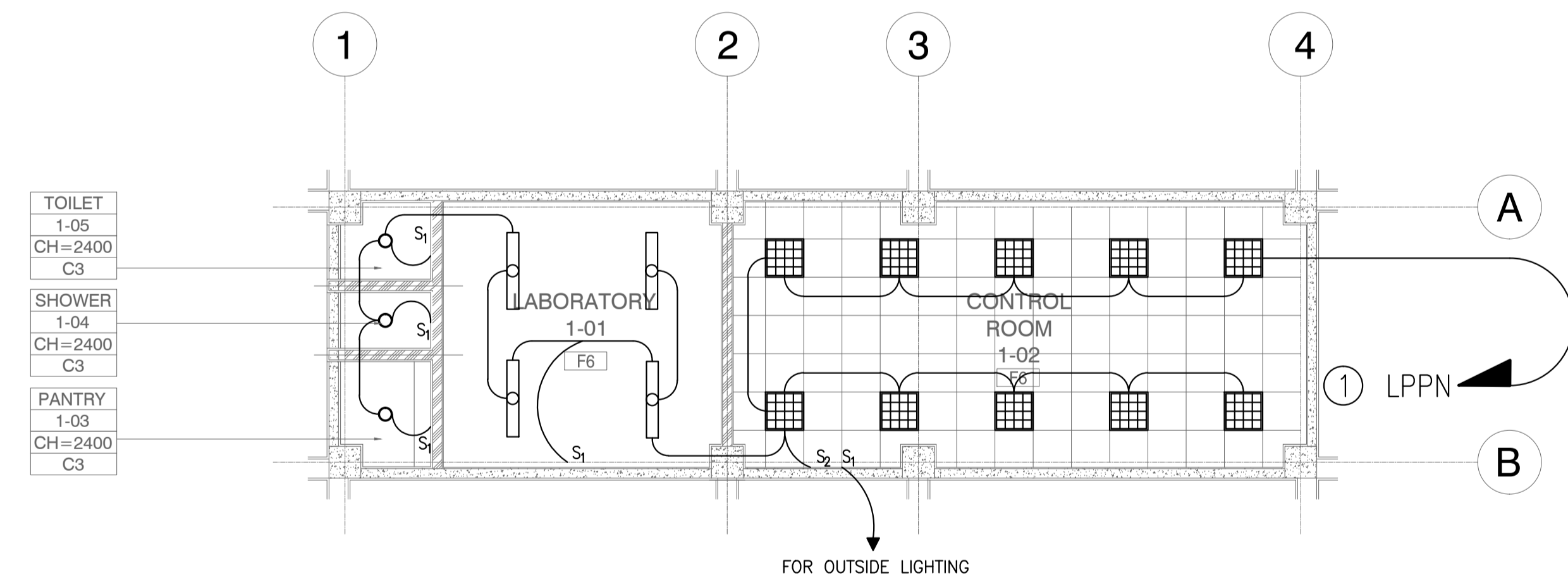
FEEDER SIZE: 3-10mm² XLPE

MAIN PROTECTION: 75AT, 100AF, 230V, 3P, MCCB, 10KAIC



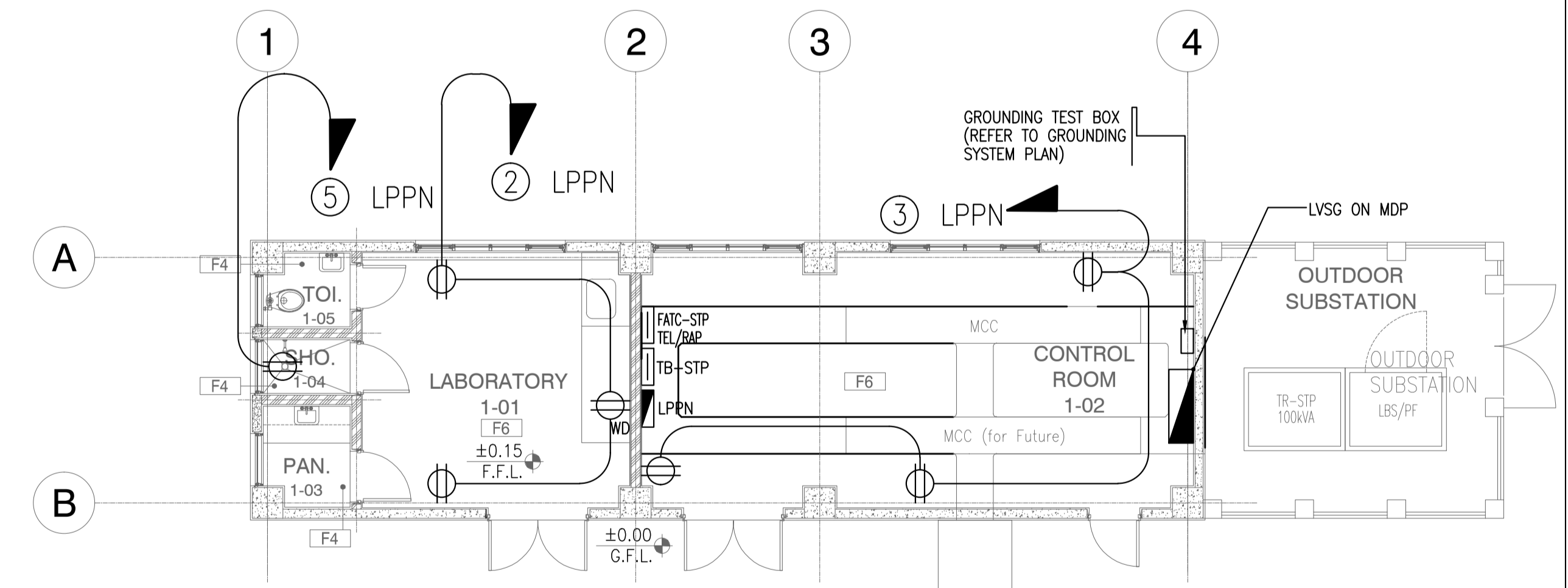
3 STP CONTROL ROOM (STP)
PANEL SCHEDULE
B63-6200-02/ NOT TO SCALE

4 STP CONTROL ROOM (STP)
SINGLE LINE DIAGRAM
B63-6200-02/ NOT TO SCALE



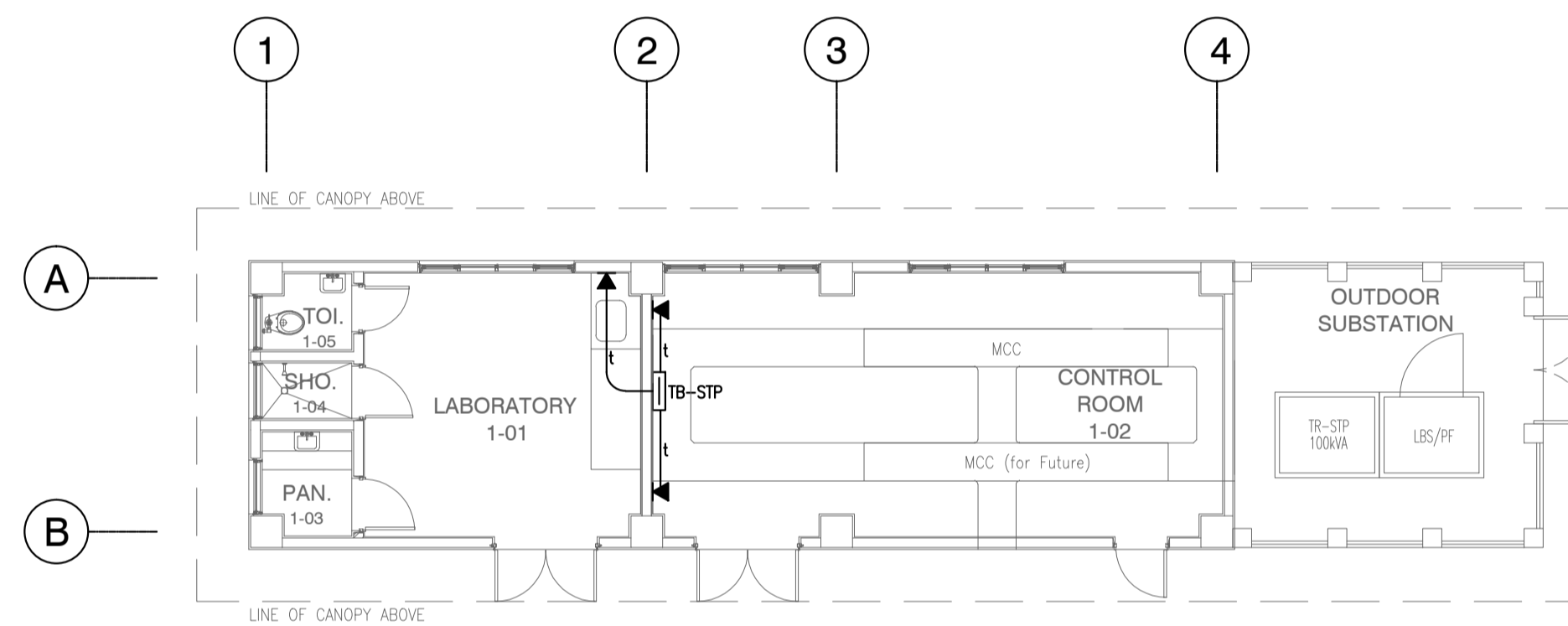
2 STP CONTROL ROOM (STP)
LIGHTING LAYOUT PLAN
B63-6200-01/ GRAPHIC SCALE 0 1 2 5m

- LEGEND:**
- 2x40W FLO. LAMP-NORMAL POWER ONLY
 - RECESSED TYPE
 - 1-18W PINLIGHT-NORMAL POWER ONLY



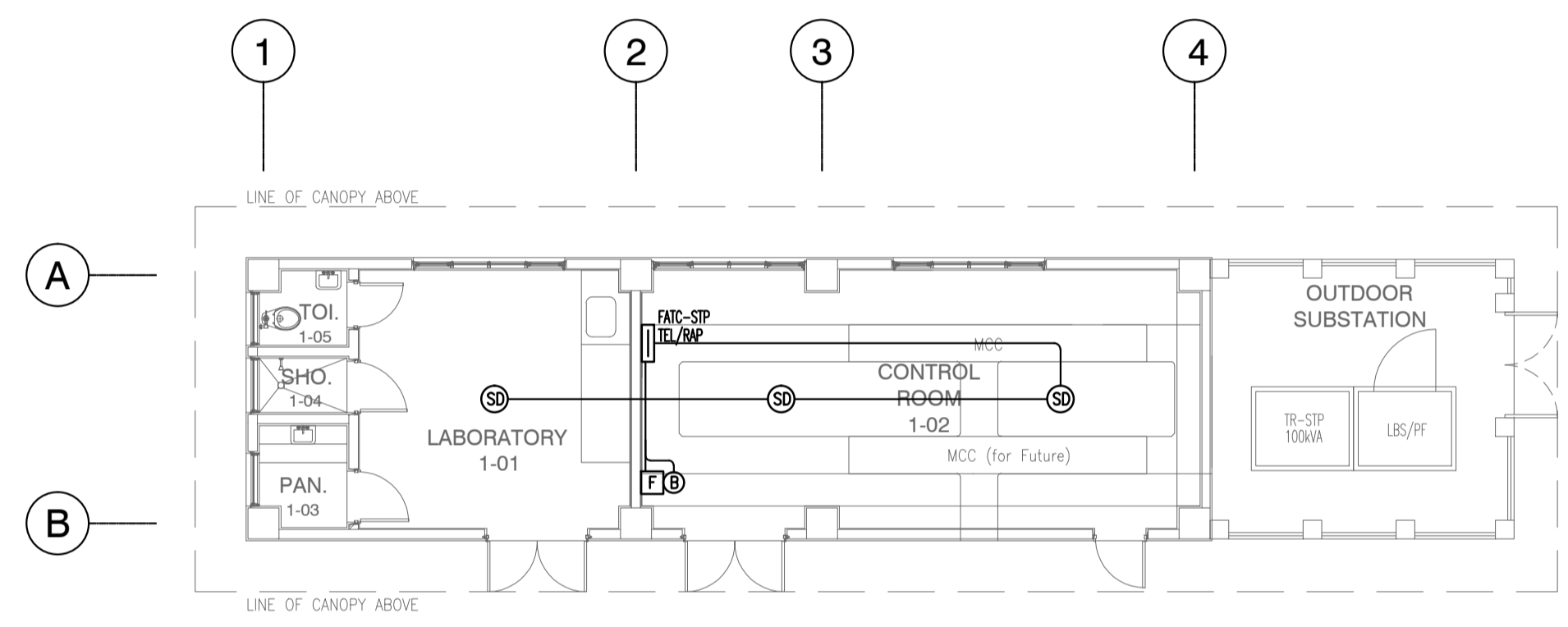
1 STP CONTROL ROOM (STP)
RECEPTACLE LAYOUT PLAN
B63-6200-01/ GRAPHIC SCALE 0 1 2 5m

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.I.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL RECEPTACLE, LIGHTING & PANEL SCHEDULE	SHEET NO: B63-6200-01 DRAWING SCALE: 1:75 m
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: _____ Validated by: _____	WIM HC



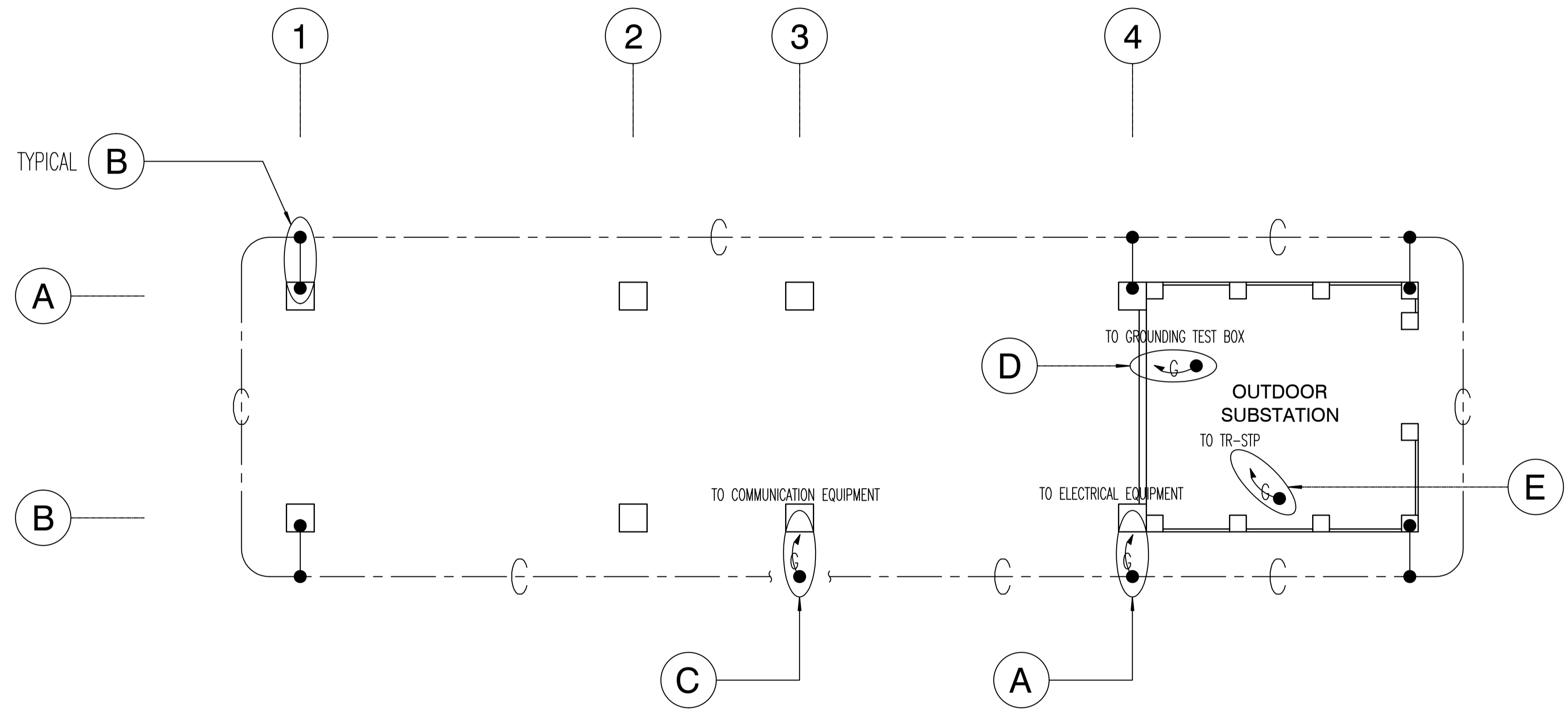
1 STP CONTROL ROOM (STP)
TELEPHONE LAYOUT
B63-6300-01

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: 	APPROVED: 	PROJECT TITLE: 	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL TELEPHONE LAYOUT	SHEET NO: B63-6300-01
	JICA DESIGN CONSULTANT JOINT VENTURE 	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULUANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN



1 STP CONTROL ROOM (STP)
 FIRE DETECTION AND ALARM SYSTEM LAYOUT
 B63-6800-01 GRAPHIC SCALE
 NOTE: REFER TO FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM FOR WIRING SCHEDULE.

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: 	APPROVED: 	PROJECT TITLE: 	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL FDAS LAYOUT	SHEET NO: B63-6800-01
	JICA DESIGN CONSULTANT JOINT VENTURE 	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN








1 STP CONTROL ROOM (STP)
GROUND FLOOR GROUNDING SYSTEM PLAN
B63-6900-01

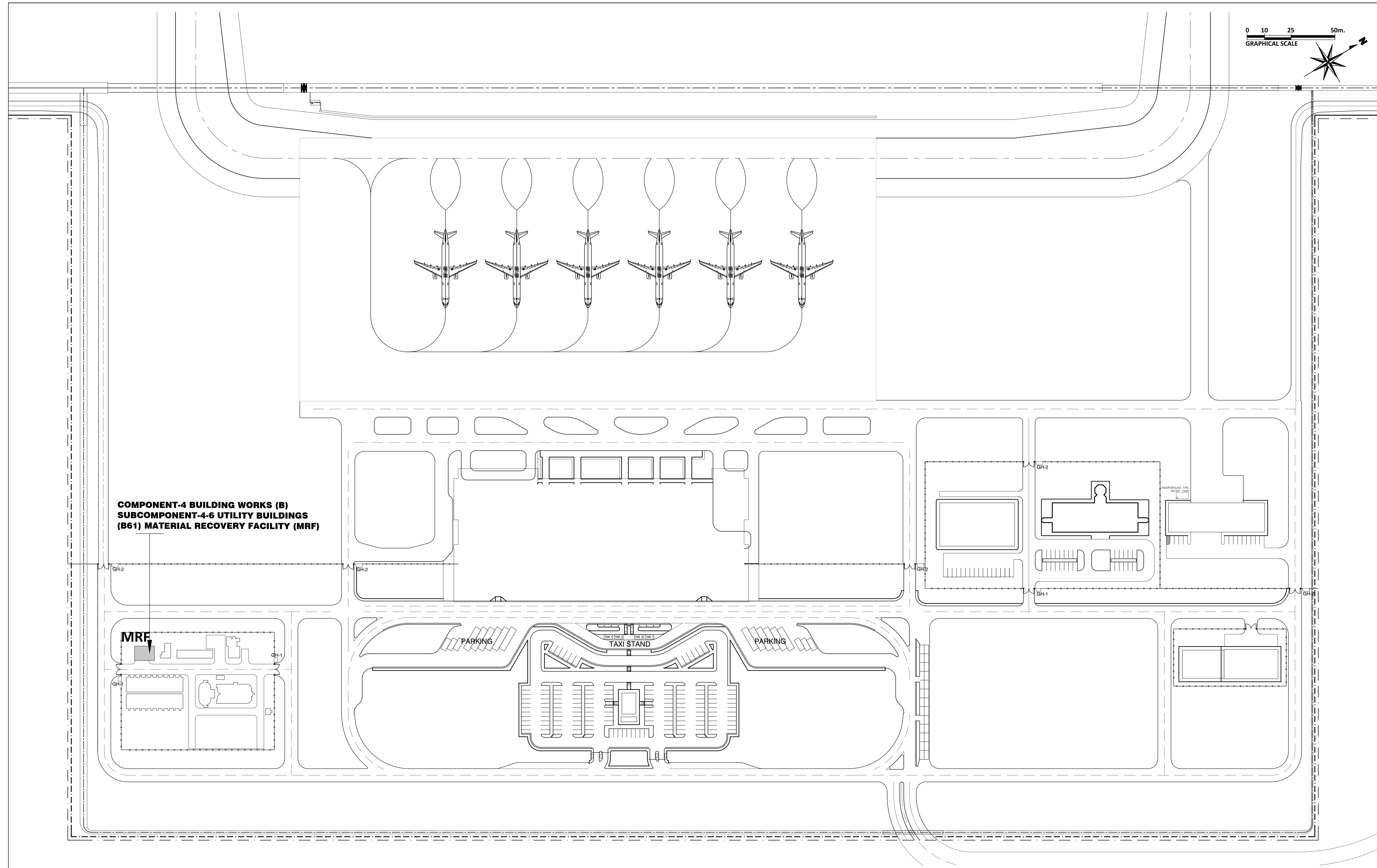
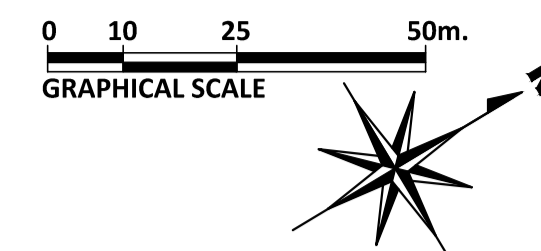
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B63) STP Control Room ELECTRICAL GROUNDING LAYOUT	SHEET NO: B63-6900-01 DRAWING SCALE: 1:60
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	JICA JAPAN INTERNATIONAL COOPERATION AGENCY	JAC JAPAN AIRPORT CONSULTANTS, INC.	NIPON KOEI CO., LTD.	NIS CONSULTANTS CO., LTD.	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:

DRAWING LIST

DOCUMENT IV: DRAWINGS
COMPONENT-4: BUILDING WORKS (B)
SUBCOMPONENT-4-6: UTILITY BUILDINGS
(B64) MATERIAL RECOVERY FACILITY (MRF)

SHEET No.	SHEET CONTENTS	SHEET No.	SHEET CONTENTS
B64-4300	ARCHITECTURAL WORKS		
B64-4300-01	LOCATION PLAN		
B64-4300-02	LAYOUT PLAN, EXTERNAL FINISHING, FLOOR AREA SCHEDULE		
B64-4300-03	FLOOR PLAN, ELEVATION, SECTION, INTERNAL FINISHING SCHEDULE		
B64-4200	STRUCTURAL WORKS		
B64-4200-01	FOUNDATION PLAN & FRAMING PLAN		
B64-4200-02	FRAME ELEVATION		
B64-4200-03	SECTION & DETAIL		
B64-5100	PLUMBING WORKS		
B64-5100-01	MATERIAL RECOVERY FACILITY (MRF) MECHANICAL SANITARY & PLUMBING (1) SANITARY AND PLUMBING LAYOUT		
B64-5100-02	MATERIAL RECOVERY FACILITY (MRF) MECHANICAL SANITARY & PLUMBING (2) ROOF DECK PLUMBING LAYOUT		
B64-5200	MECHANICAL WORKS		
B64-5200-01	MATERIAL RECOVERY FACILITY (MRF) MECHANICAL VENTILATION AND AIR-CONDITIONING		
B64-5300	FIRE PROTECTION		
B64-5300-01	FIRE PROTECTION LAYOUT		
B64-6000	ELECTRICAL WORKS		
B64-6100-01	VAC FEEDER LAYOUT PLAN		
B64-6200-01	RECEPTACLE & LIGHTING LAYOUT		
B64-6900-01	GROUNDING LAYOUT		

 Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	 JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY:	RECOMMENDING APPROVAL:	APPROVED:	PROJECT TITLE:							SHEET CONTENTS:	SHEET NO:
		WILLIAM I. MALLONGA <small>PROF: Architect PTR: 3811137</small> <small>REG. NO.: 4623 DATE: MAY 9, 2013</small> <small>TEAM: 129-564-198 PLACE: MANILA CITY</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary</small> <small>for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary</small> <small>for Project Implementation, DOTC</small>	NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	<small>JUNE 2013</small>	<small>DATE</small> <small>INDEX</small> <small>AMENDMENTS</small>	<small>Prepared by</small> <small>Checked by</small> <small>Validated by</small>	<small>WIM</small> <small>HC</small>	<small>WIM</small> <small>HC</small>	<small>WIM</small> <small>HC</small>	<small>WIM</small> <small>HC</small>	<small>WIM</small> <small>HC</small>
JICA DESIGN CONSULTANT JOINT VENTURE  JAPAN AIRPORT CONSULTANTS, INC.  NIPPON KOEI CO., LTD.  NIS CONSULTANTS CO., LTD.													



**COMPONENT-4 BUILDING WORKS (B)
SUBCOMPONENT-4-6 UTILITY BUILDINGS
(B61) MATERIAL RECOVERY FACILITY (MRF)**

MRF

PARKING

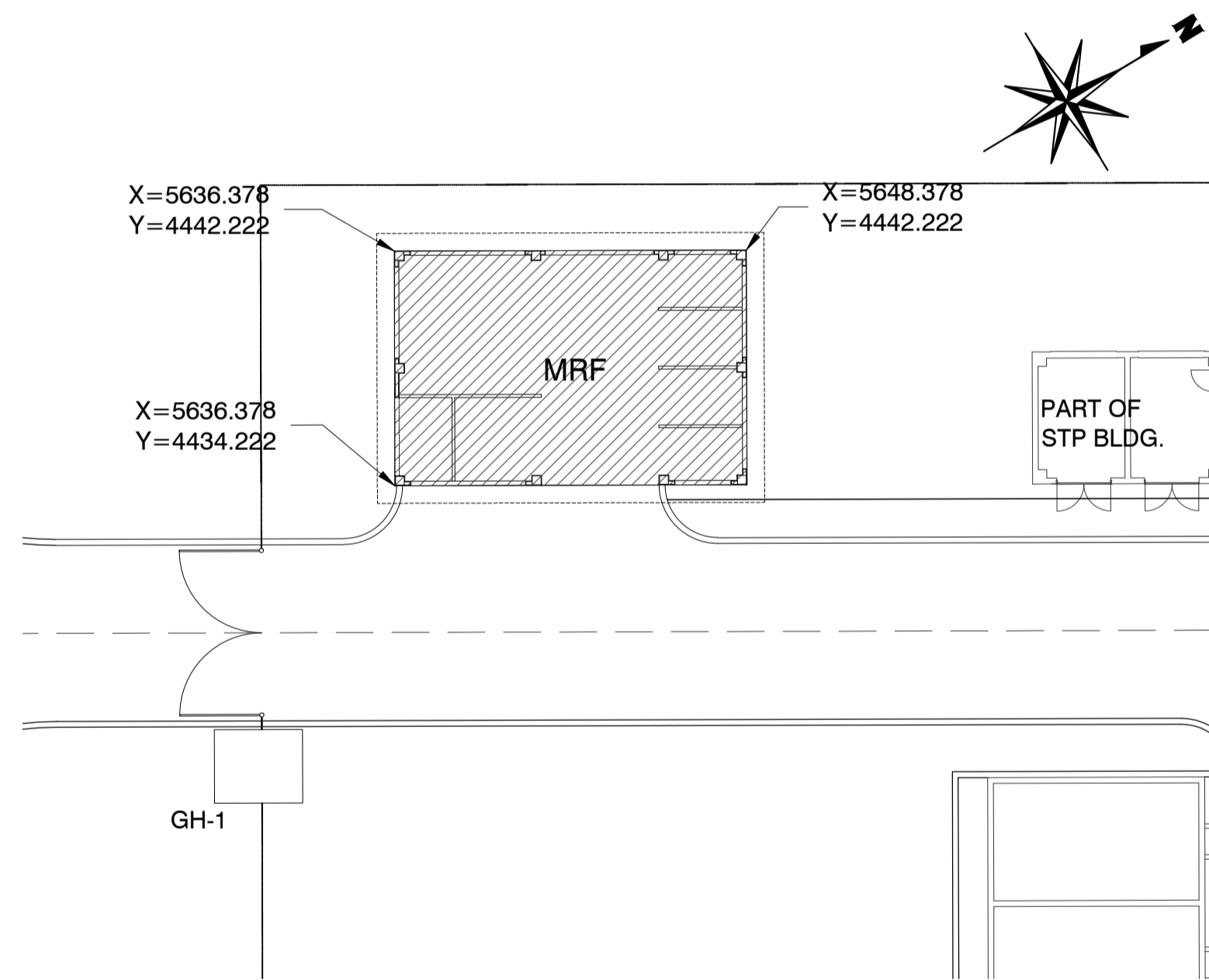
TAXI STAND

PARKING

	PREPARED BY: WILLIAM I. MALLONGA <small>PROF: Architect PIR: 3811137 RES. NO.: 4623 DATE: MAY 9, 2013 TEAM: 159-564-198 PLACE: MANILA CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY ARCHITECTURAL LOCATION PLAN	SHEET NO: B64-4300-01 DRAWING SCALE: 1:1000 M.
	JICA DESIGN CONSULTANT JOINT VENTURE <small>Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS</small>	<small>PROF: Architect PIR: 3811137 RES. NO.: 4623 DATE: MAY 9, 2013 TEAM: 159-564-198 PLACE: MANILA CITY</small>	<small>ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC</small>	<small>JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: WIM Validated by: HC	SHEET NO: B64-4300-01 DRAWING SCALE: 1:1000 M.

**MATERIAL RECOVERY FACILITY (MRF)
OUTLINE OF EXTERNAL FINISHING SCHEDULE**

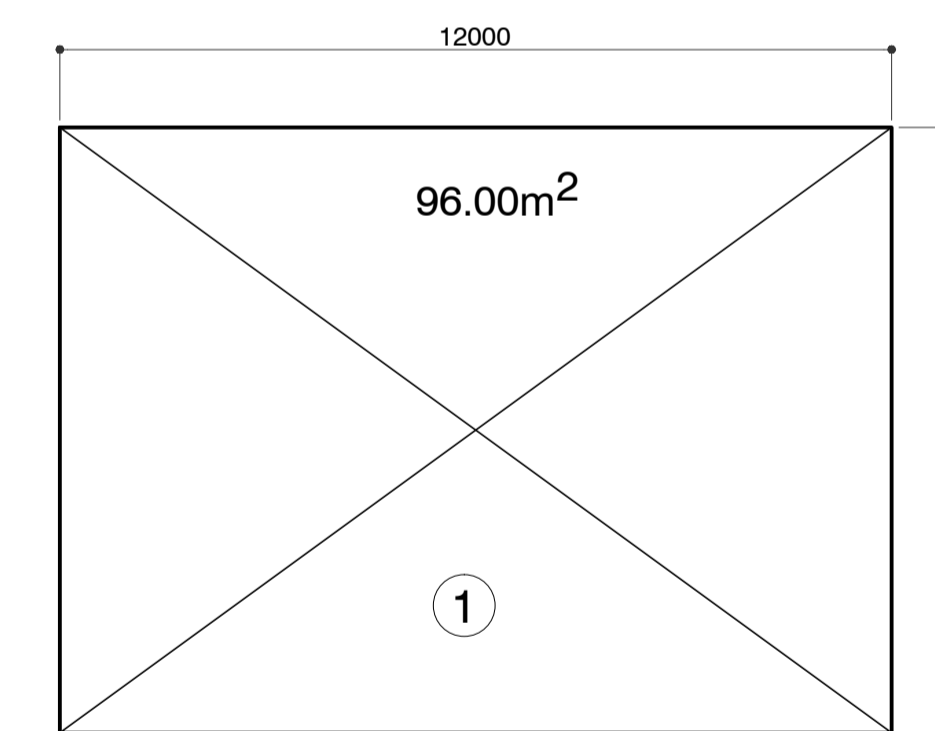
Portion	Appl.	Symbol	Finishing Material	Portion	Appl.	Symbol	Finishing Material
Floor		FLG	t=30 Granite tile with jet burner finish on cement setting bed	Walls		WLA	Aluminum Back-mullion Curtain wall Framing system
	x	FLS	Cement render finishing with metal troweled (t=30)		x	WLR	Cement render finish w/P-4
		FLC	Ceramic tile 300 x 300 slip resistance finishing			WLC	Fair faced concrete w/P-1
Roof		ROD	Single folded steel plate roof with insulation (Folded steel plate : t=0.6, h=41 Fluorin-resin coated aluminized steel, t=100 Glass wool wrapped in polyethylene film)	Windows		WLD	Aluminum Cladding: Anodizing with electro deposition Aluminum composite panel w/ polyethylene insulation t=40mm
	x	ROS	Single folded steel plate (t=0.6, h=41) fluorine-resin coated aluminized steel w/ prefabricated fiber glass sheet t=5mm			AW	Anodizing with electro deposition aluminum window
		ROC	Protective concrete layer on insulation board and pre-formed waterproofing membrane WP-1	Doors		SD	Steel door w/P-3
		ROPS	Vinyl Chloride resin sheet membrane on insulation board t=30		AD	Anodizing with electro deposition aluminum door	
		ROPR	Hot applied rubberized asphalt waterproofing system WP-2	Column	x	CNR	Cement render finish w/P-4
Roof Gutter		RGA	Stainless sheet (t=2) w/ polyethylene foam W=500		CNC	Fair faced concrete w/P-4	
	x	RGB	Fluorine-resin coated aluminized steel t=0.6mm.		CNF	Fair faced concrete	
Facsia		EVA	t=2.5 Aluminum panel w/P-8		CNB	t=8 Calcium silicate board w/P-4	
Parapet		PAF	Fair faced concrete w/P-4		CNS	Steel structure w/P-8	
DownSpout		DSA	d=100 uPVC Pipe	Beam	x	BMR	Cement render finish w/P-4
		DSB	d=150 Galvanized SGP w/P-3		BMC	Fair faced concrete w/P-4	
Soffit		SFA	t=8 Calcium silicate board w/P-7		BMF	Fair faced concrete	
		SFB	t=8 Calcium silicate board w/P-1		BMS	Steel structure w/P-8	
		SFC	Formed Face Concrete	Base	x	BSR	Cement render finish w/P-6 h=300
Parapet Coping		PCA	Anodizing with electro deposition Aluminum Coping		BSF	Fair faced concrete h=300	
		PCR	Cement render finish w/P-4		SKG	t=25 Granite tile H=100	
Sky Light		SKL	Laminated glass with anodizing with electro deposition frame	Roller Doors		RDST	Roller steel door w/P-3
Ladder		LDS	Stainless steel pipe			RDG	Roller steel grill w/P-3
				Expansion Joint		EXJ	Pre-fabricated stainless steel expansion joint covers



1 LAYOUT PLAN
SCALE 1:200m.

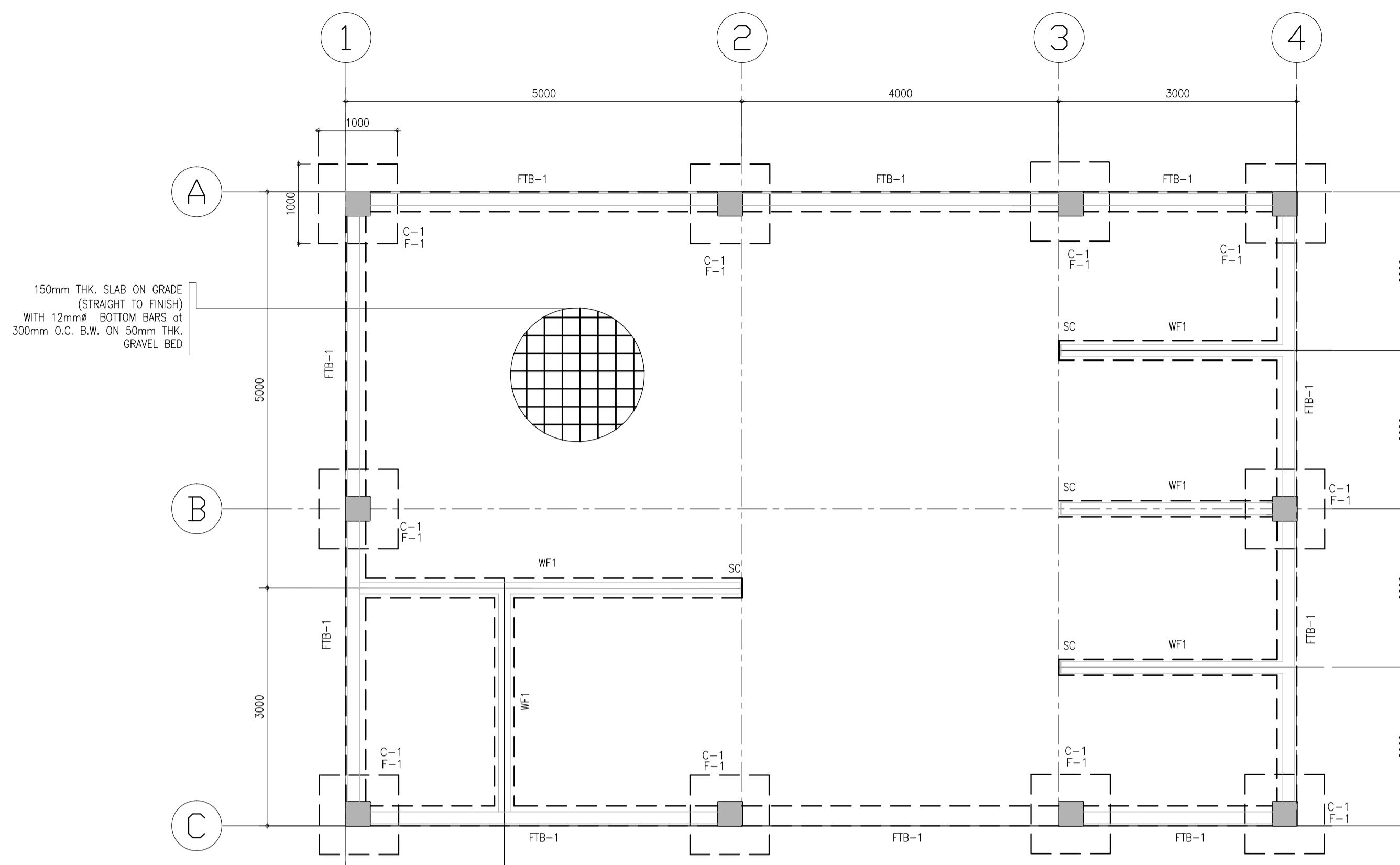
MATERIAL RECOVERY FACILITY BUILDING FLOOR AREA SCHEDULE

FL	Floor Area No.	Floor Area
GFL	1	96.00 m ²
	TOTAL	96.00 m ²

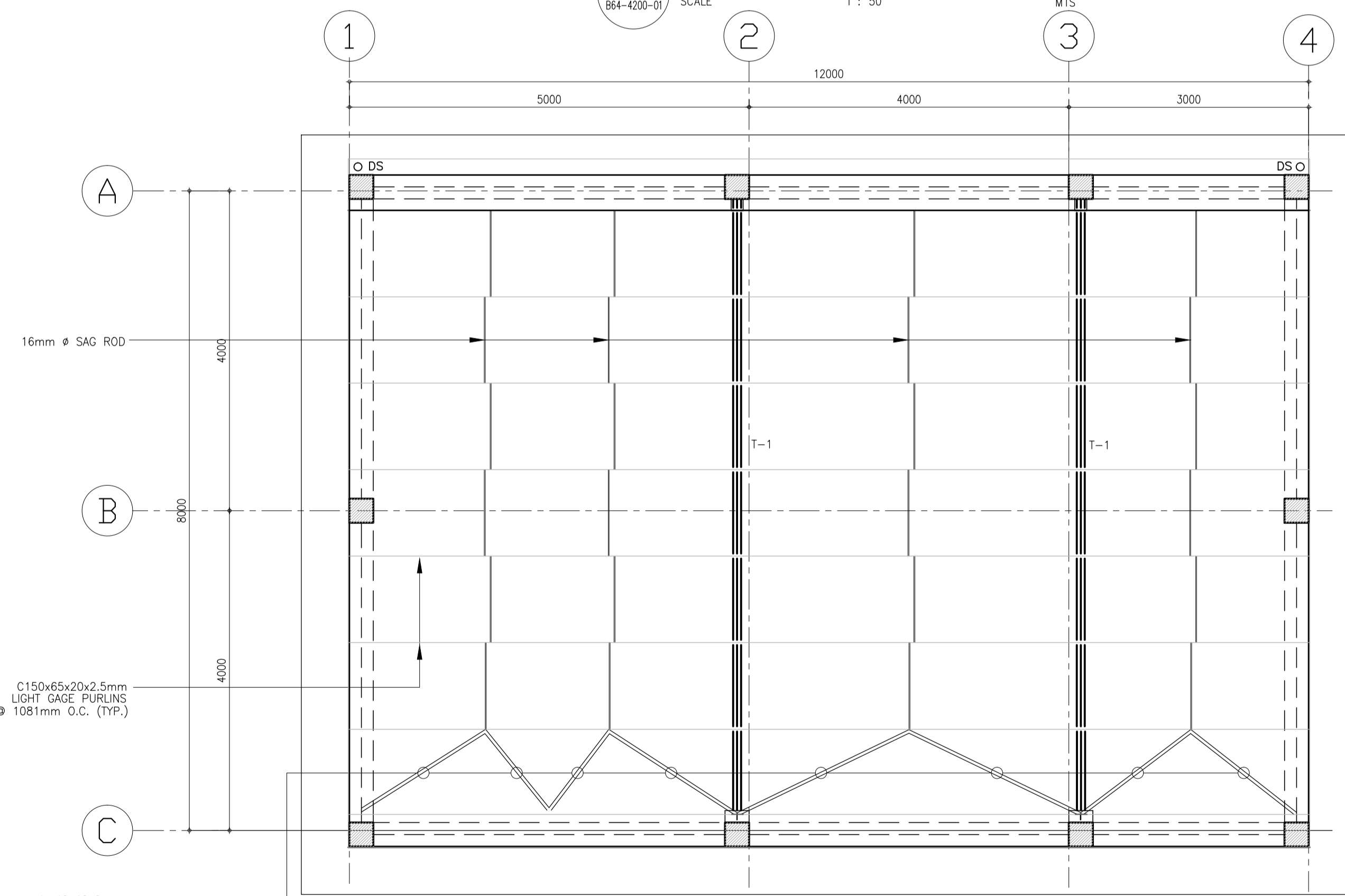


2 MATERIAL RECOVERY FACILITY (MRF)
SCALE NTS.

	PREPARED BY: WILLIAM I. MALLONGA <small>PROF: Architect PIR: 3811137 RES. NO.: 4623 DATE: MAY 9, 2013 TEL: 159-564-198 PLACE: MANILA CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY ARCHITECTURAL LAYOUT PLAN MATERIAL RECOVERY FACILITY FLOOR AREA SCHEDULE EXTERNAL FINISHING SCHEDULE	SHEET NO: B64-4300-02
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	DATE INDEX AMENDMENTS	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN



1 MATERIAL RECOVERY FACILITY FOUNDATION PLAN
 B64-4200-01 SCALE 1 : 50 MTS



2 MATERIAL RECOVERY FACILITY ROOF FRAMING PLAN
 B64-4200-01 SCALE 1 : 50 MTS

GENERAL FOUNDATION NOTES

A. SEE SHEET B0-4200-01 TO B0-4200-03 FOR GENERAL STRUCTURAL NOTES AND TYPICAL WALL CONSTRUCTION NOTES.

B. ALL COLUMN FOOTINGS ARE CENTERED ON COLUMN AND COLUMNS ARE CENTERED ON GRIDS UNO.

C. DIMENSION ON THIS PLAN ARE CENTER TO CENTER OF COLUMNS

D. TFE INDICATED TOP OF FOOTING ELEVATION(DATUM:
 GROUND FLR LVL = 0.00m)
 TYP TFE UNO: -1.50m
 TYP T/O FTB ELEV: -0.60m

E. VERIFY SIZE, LOCATION AND DEPTH OF UTILITIES AND SLEEVES WITH OTHER TRADES.

F. SEE ARCHITECTURAL DRAWINGS FOR LOCATION OF RECESSES SLABS, SLOPED AREAS IN SLABS ON GRADE, AND CURBS AT EXTERIOR BUILDING FACE

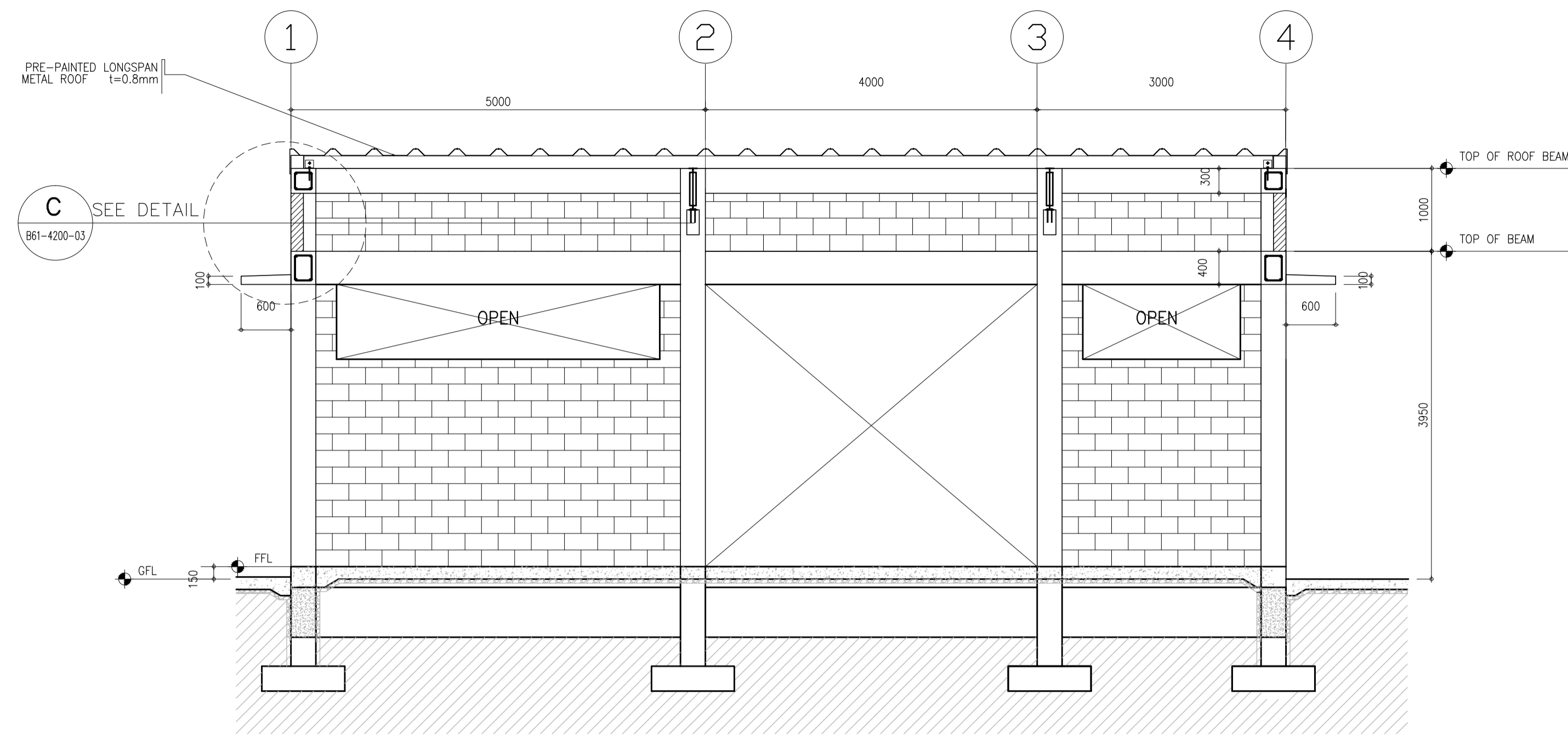
G. F1, F2 ETC ON PLAN DENOTES CONC FOOTING. SEE SHEET B64-4200-03.

H. C1, C2 ETC ON PLAN DENOTES COLUMNS. SEE SHEET B64-4200-03.

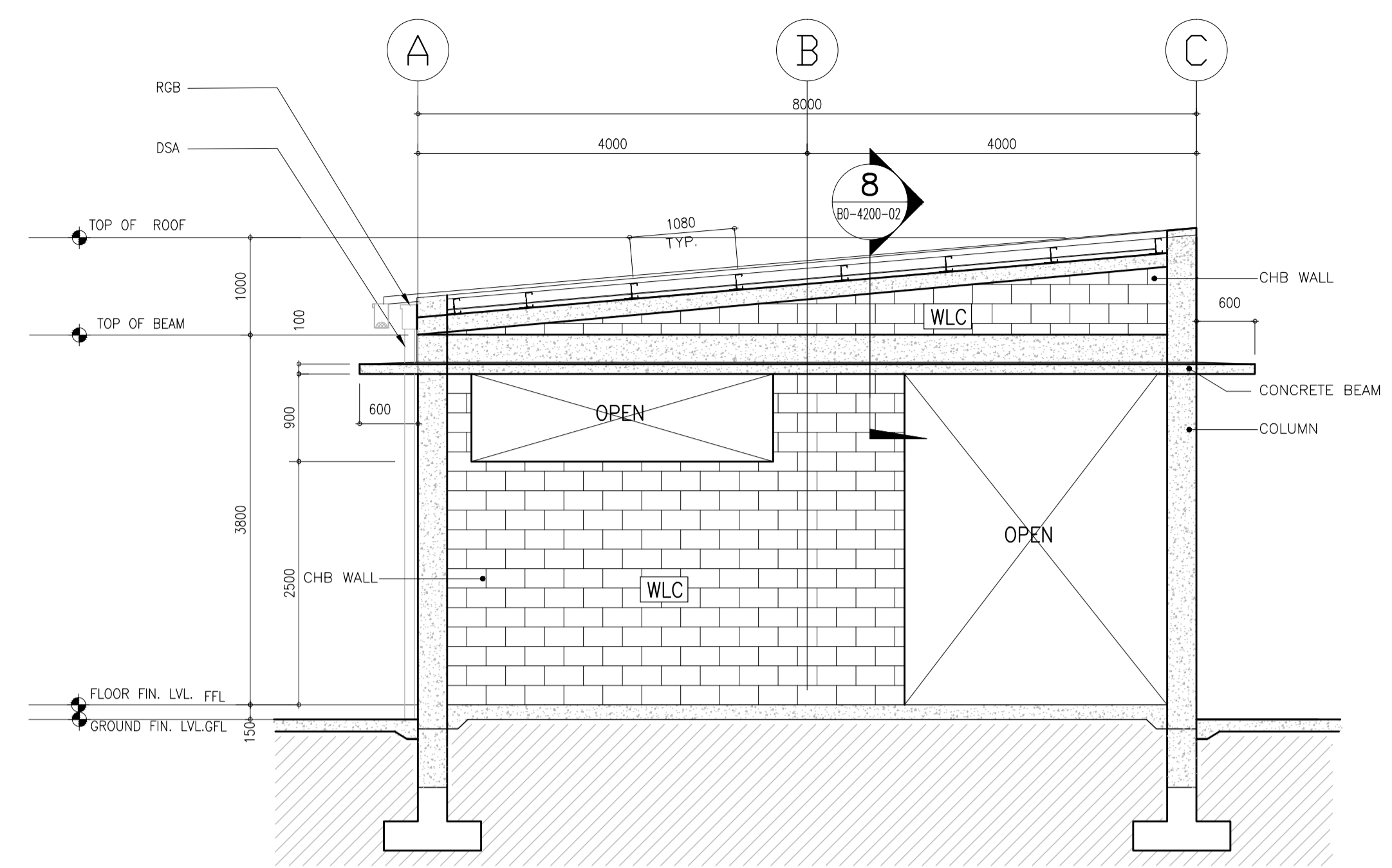
COLUMN LEGEND:

■ - CONTINUOUS COLUMN
 ▨ - TERMINATED COLUMN

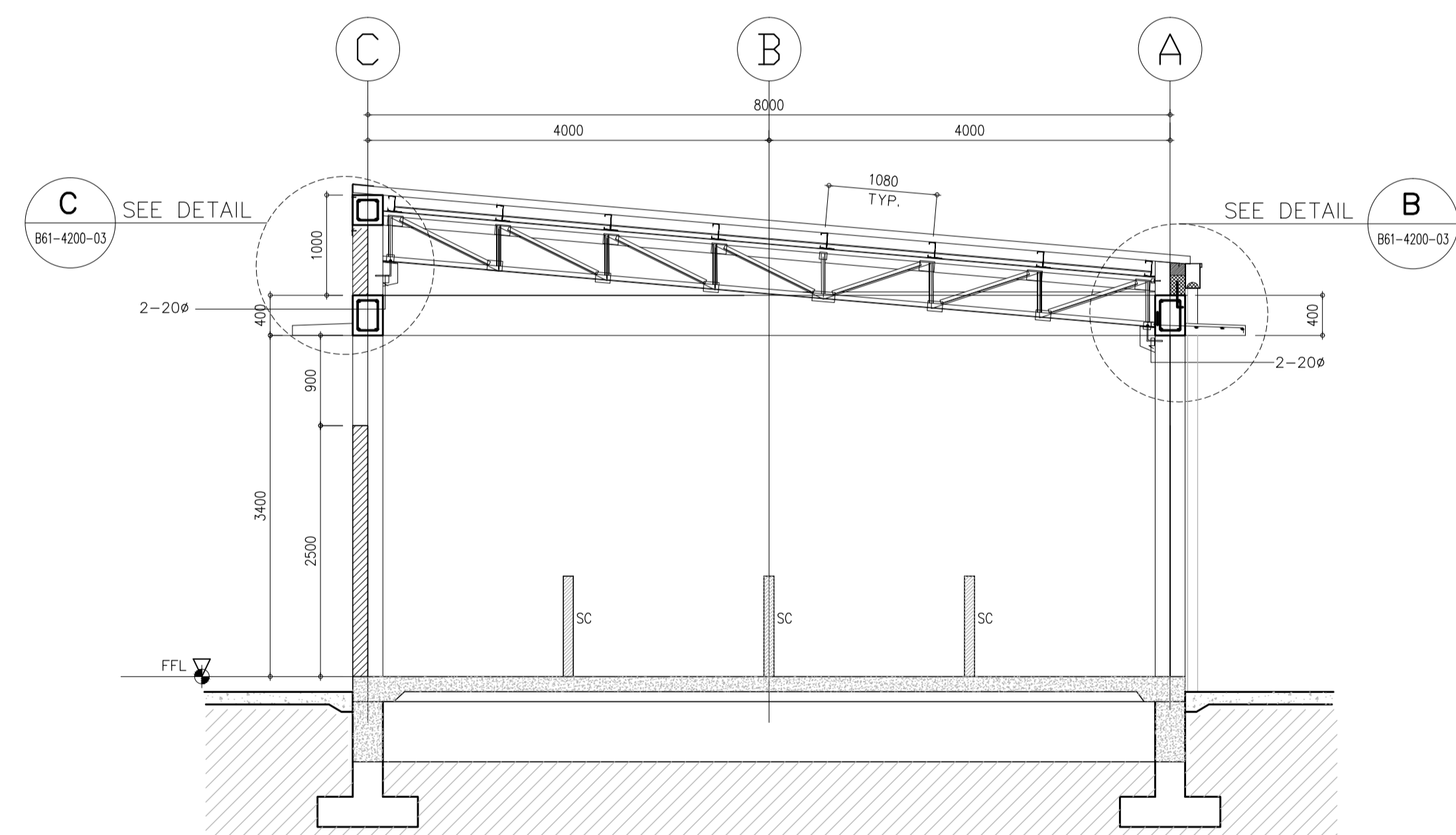
	PREPARED BY: EDGARDO C. CRUZ <small>PROF. CIVIL ENGINEER PTR. 7589023B REG. NO.: 23983 DATE: JANUARY 03, 2013 TEL. 651-157-021 PLACE: QUEZON CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (B) SUB-COMPONENT 4-6 : UTILITY BUILDINGS MRF (MATERIAL RECOVERY FACILITY) STRUCTURAL FOUNDATION PLAN ROOF FRAMING PLAN	SHEET NO: B64-4200-01 DRAWING SCALE: 1 : 50 MTS
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS JAPAN INTERNATIONAL COOPERATION AGENCY	TADASHI AOI Team Leader	JUN 2013 DATE INDEX AMENDMENTS Prepared by: FRS Jr. WIM HC Checked by: Validated by:	JUNE 2013 DATE INDEX AMENDMENTS	SHEET NO: B64-4200-01 DRAWING SCALE: 1 : 50 MTS



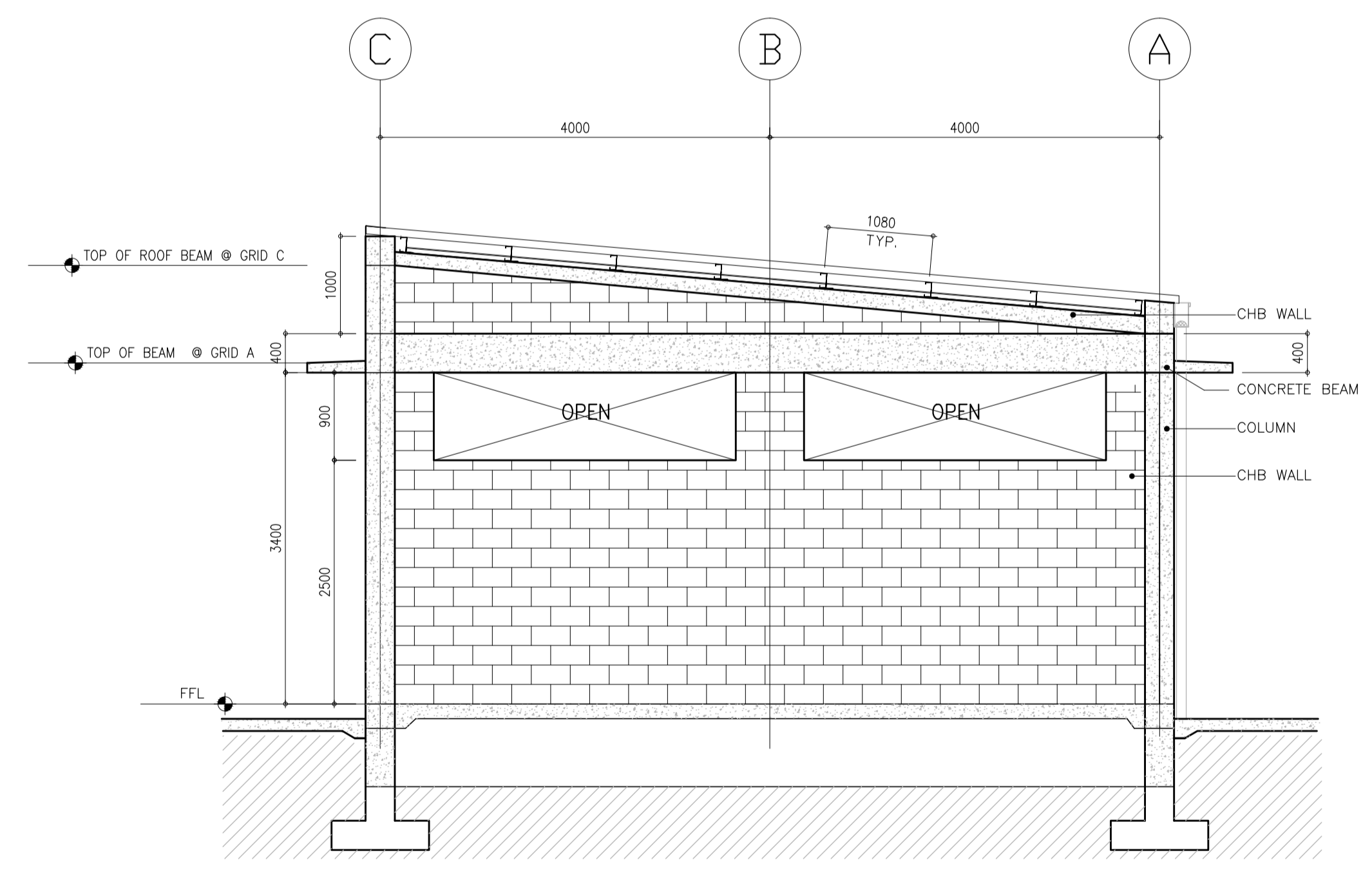
1 MATERIAL RECOVERY FACILITY
FRAME ELEVATION @ GRID C
SCALE 1 : 50 MTS



2 MATERIAL RECOVERY FACILITY
FRAME ELEVATION @ GRID 1
SCALE 1 : 50 MTS

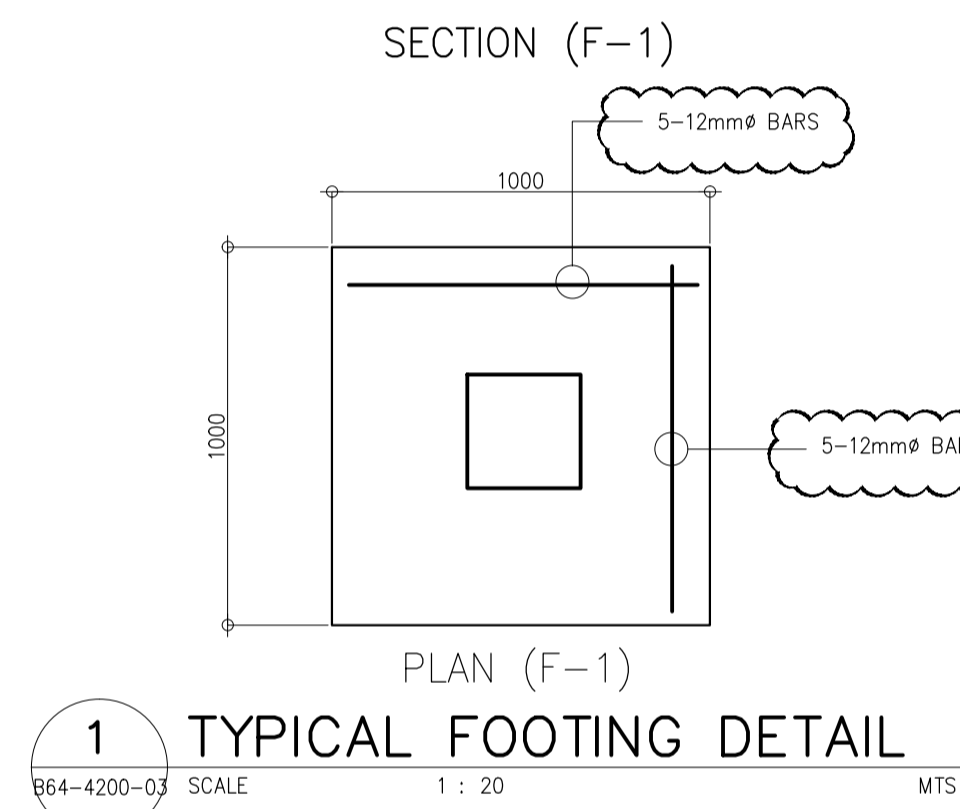
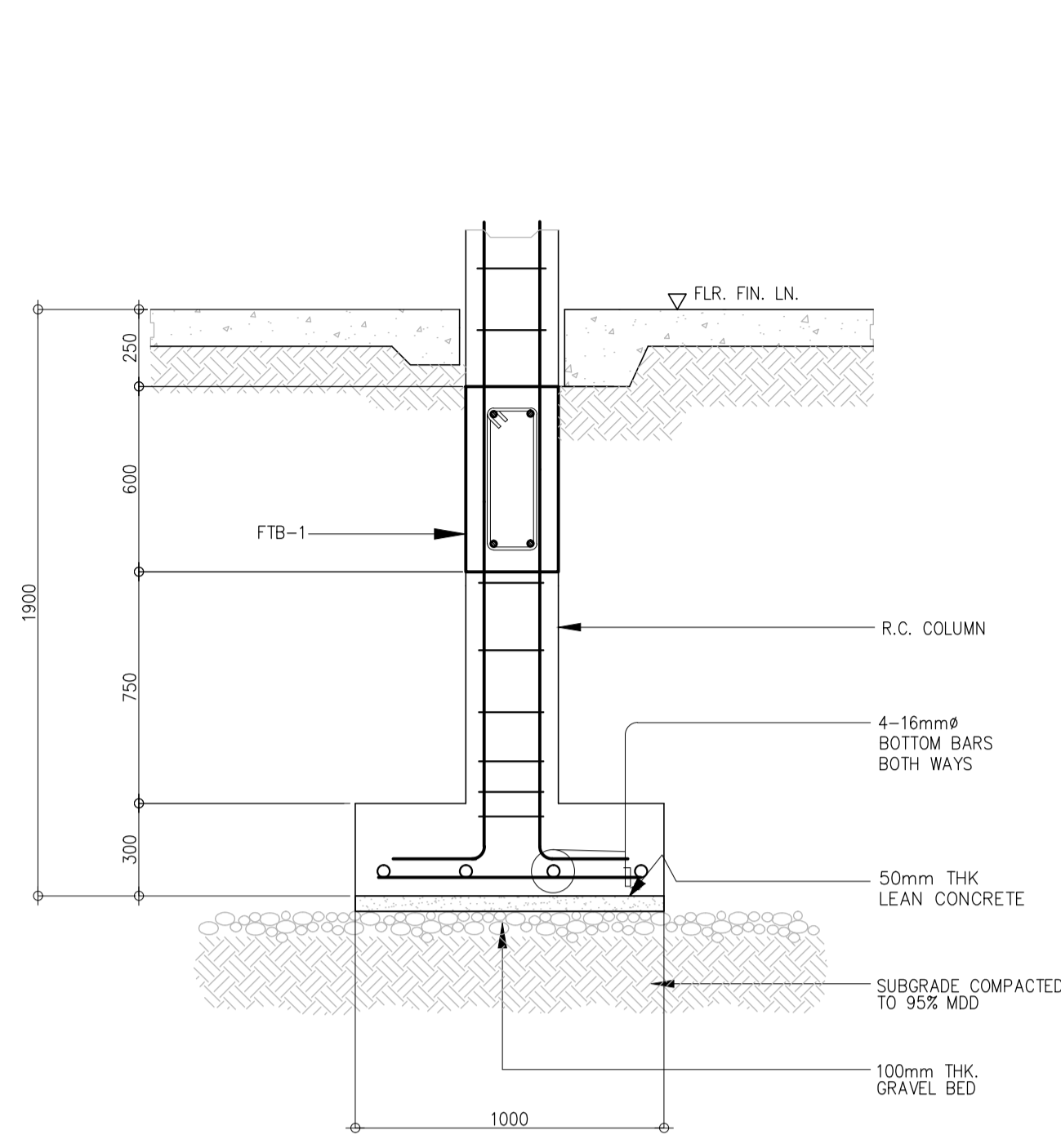


3 MATERIAL RECOVERY FACILITY
FRAME ELEVATION @ GRID 3
SCALE 1 : 50 MTS

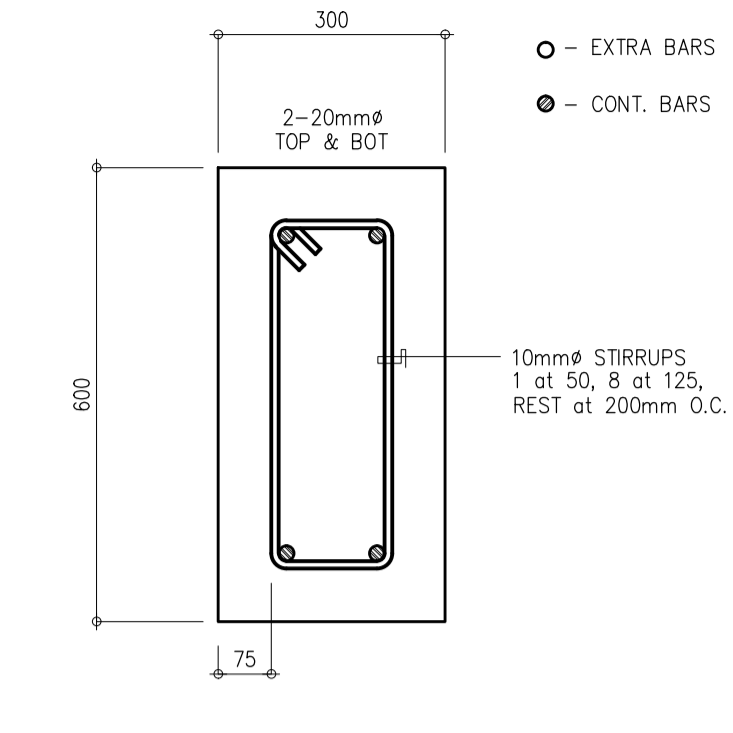


4 MATERIAL RECOVERY FACILITY
FRAME ELEVATION @ GRID 4
SCALE 1 : 50 MTS

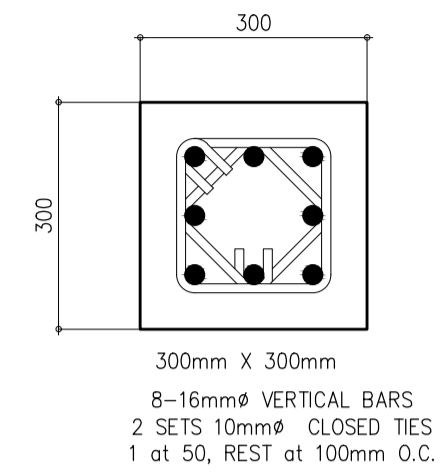
	PREPARED BY: EDGARDO C. CRUZ <small>PROF. CIVIL ENGINEER PTR. 7589023B REG. NO.: 23983 DATE: JANUARY 03, 2013 T.I.N. 651-157-021 PLACE: QUEZON CITY</small>	RECOMMENDING APPROVAL: JULDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4 : BUILDING WORKS (9) SUB-COMPONENT 4-6 : UTILITY BUILDINGS MRF (MATERIAL RECOVERY FACILITY) STRUCTURAL FRAME ELEVATION @ GRID 1, 3, & 4 FRAME ELEVATION @ GRID C	SHEET NO: B64-4200-02
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: FRS Jr. Checked by: WIM Validated by: HC



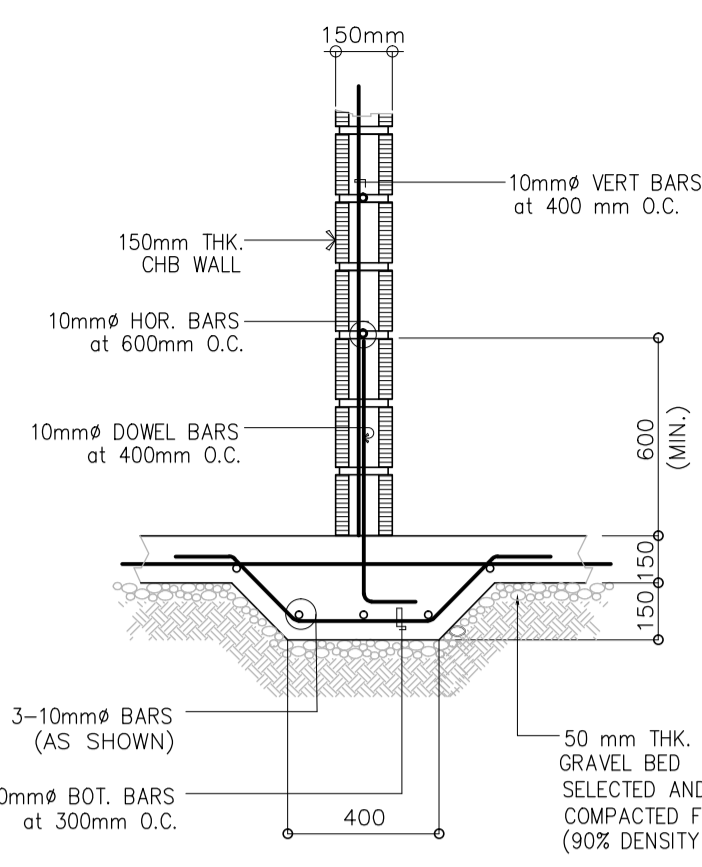
1 TYPICAL FOOTING DETAIL
B64-4200-03 SCALE 1 : 20 MTS



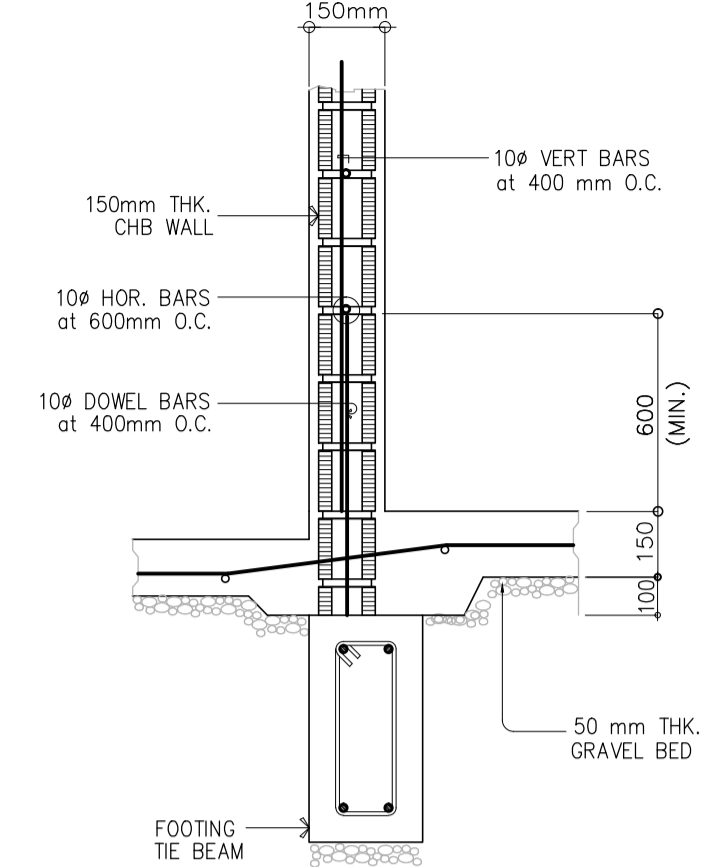
2 ENTIRE SPAN FTB-1 DETAIL
B64-4200-03 SCALE 1 : 10 MTS



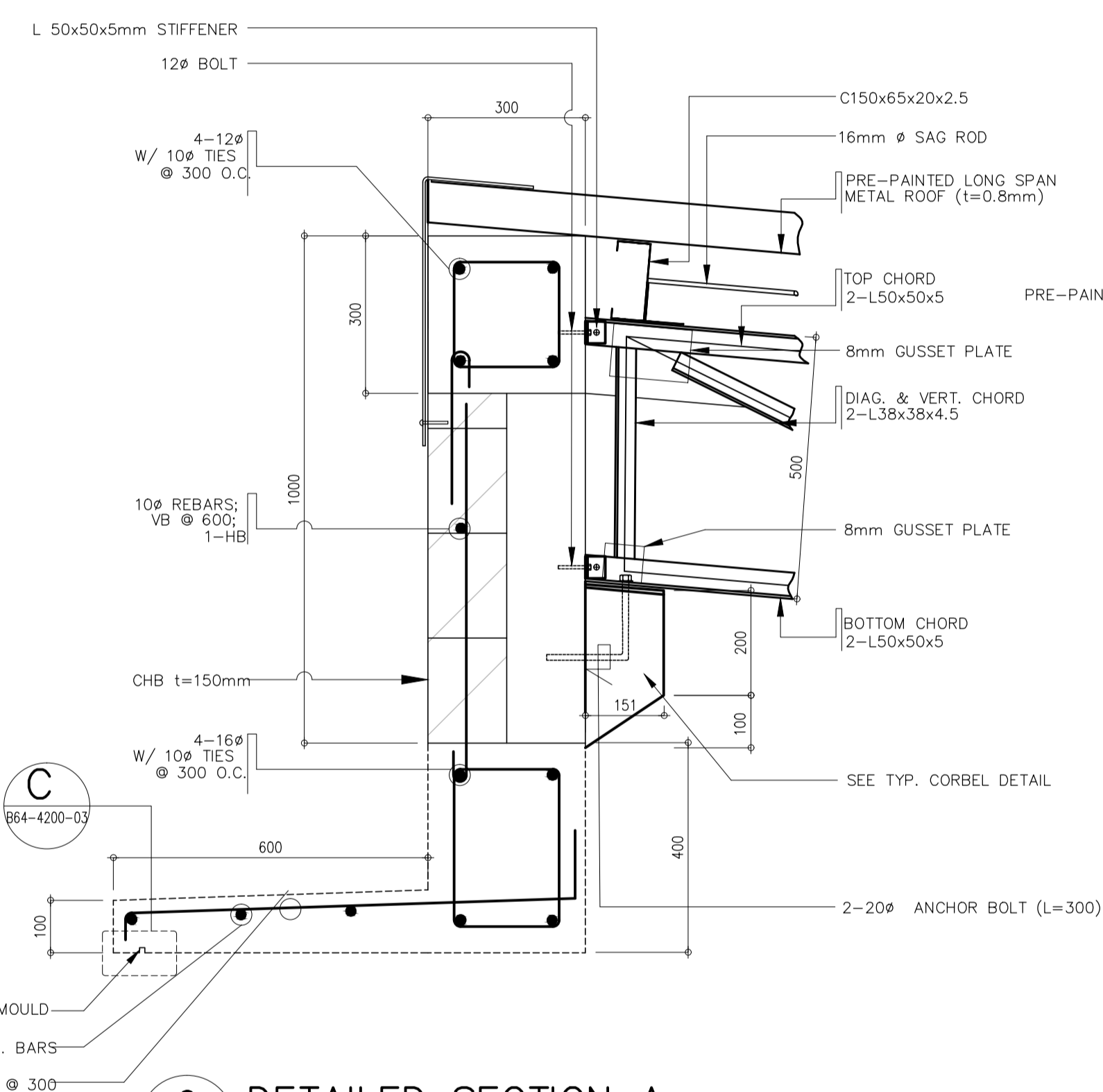
3 C-1 DETAILED SECTION
B64-4200-03 SCALE 1 : 10 MTS



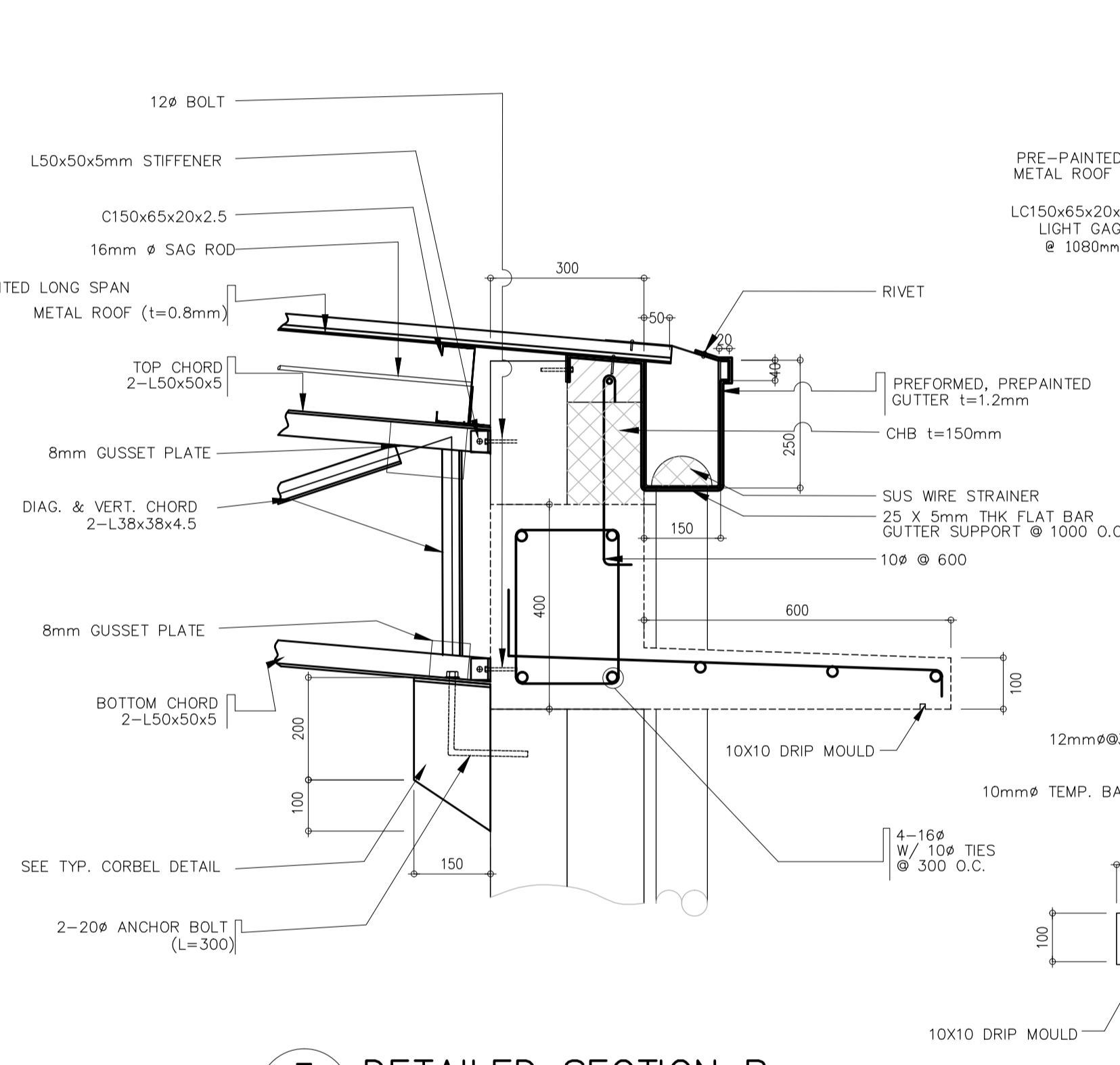
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B64-4200-03 SCALE 1 : 20 MTS



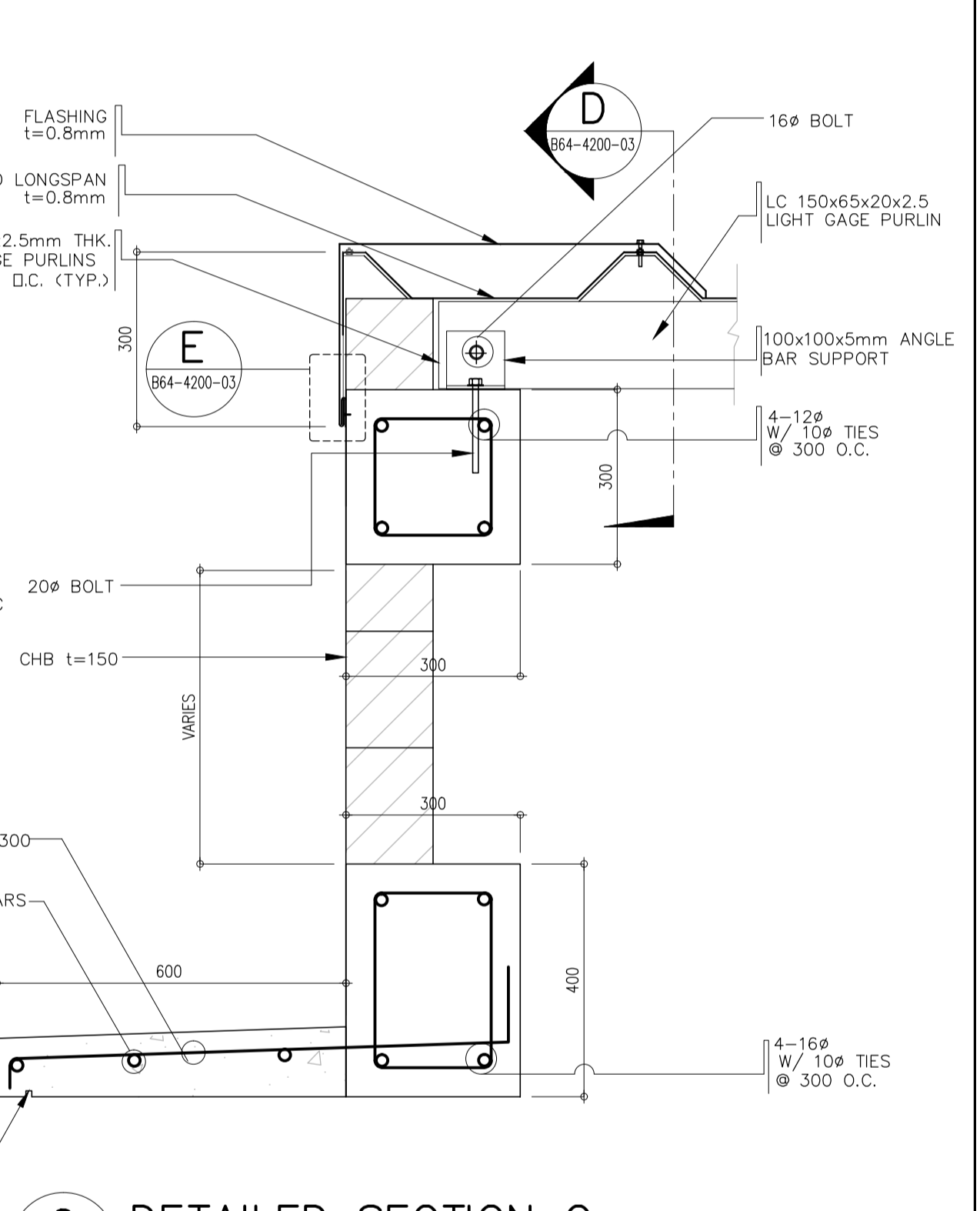
5 TYPICAL FOOTING DETAIL
B64-4200-03 SCALE 1 : 20 MTS



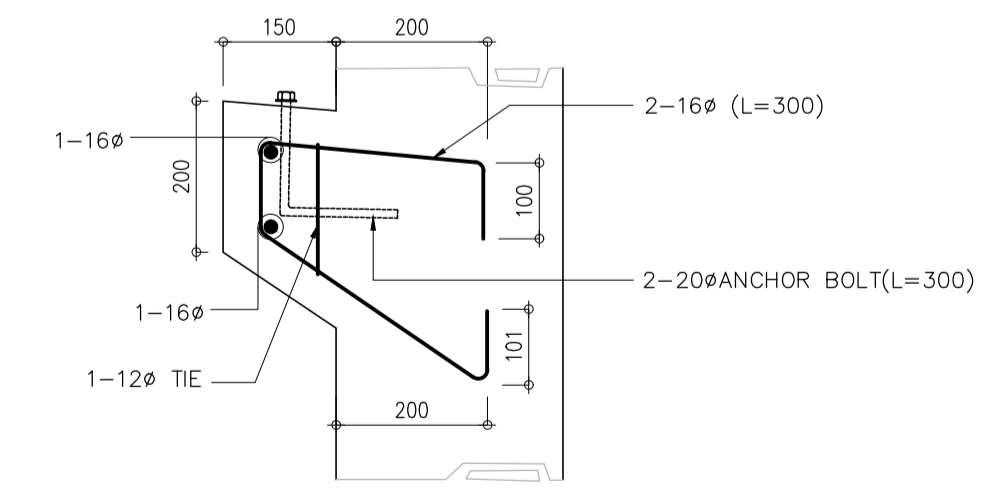
6 DETAILED SECTION A
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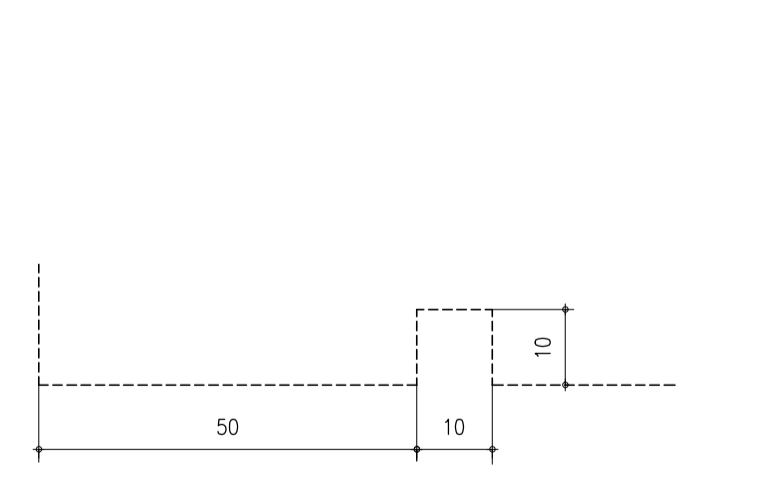
7 DETAILED SECTION B
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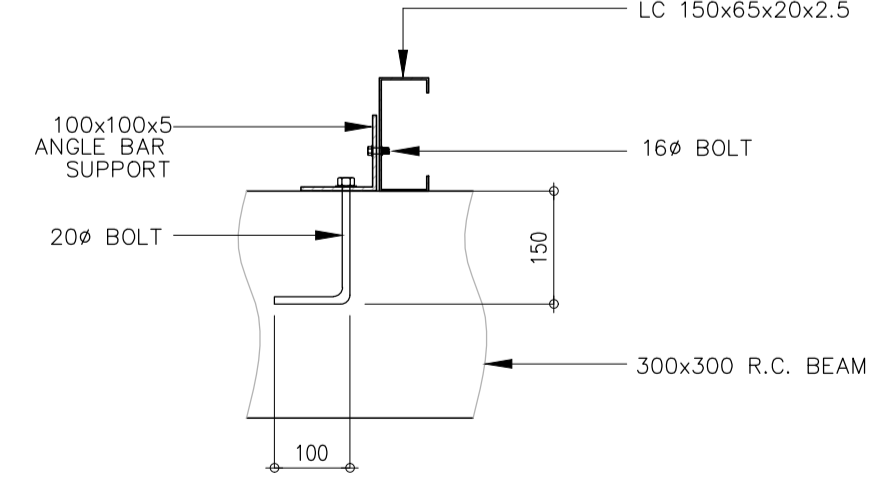
8 DETAILED SECTION C
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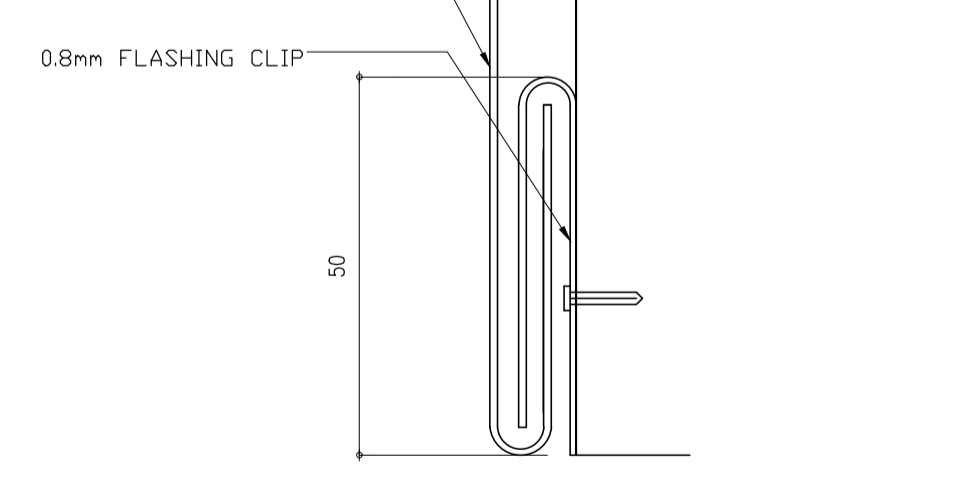
9 TYP. CORBEL DETAIL
B64-4200-03 SCALE 1 : 10 MTS



10 DRIP MOULD DETAIL D
B64-4200-03 SCALE 1 : 1 M.



11 DETAILED SECTION D
B64-4200-03 SCALE 1 : 10 MTS



12 FLASHING CLIP DTL. E
B64-4200-03 SCALE 1 : 1 M.

Republic of the Philippines
DEPARTMENT OF TRANSPORTATION
AND
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JICA
JAPAN INTERNATIONAL
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AGENCY

JICA DESIGN CONSULTANT JOINT VENTURE

JAC JAPAN AIRPORT
CONSULTANTS,
INC.

NK NIPPON KOEI
CO., LTD.

NIS NIS CONSULTANTS
CO., LTD.

PREPARED BY:
EDGARDO C. CRUZ

PROF. CIVIL ENGINEER PIR. 7589023B
RES. NO.: 23983 DATE: JANUARY 03, 2013
TEL. 651-157-0211 PLACE: QUEZON CITY

RECOMMENDING APPROVAL:
ILDEFONSO T. PATDU, JR.
Assistant Secretary
for Project Implementation, DOTC

APPROVED:
JULIANITO G. BUCAYAN, JR.
Undersecretary
for Project Implementation, DOTC

TADASHI AOI
Team Leader

PROJECT TITLE:
**NEW BOHOL AIRPORT CONSTRUCTION AND
SUSTAINABLE ENVIRONMENT PROTECTION PROJECT**

LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES

SHEET CONTENTS:
COMPONENT-4 : BUILDING WORKS
SUB-COMPONENT 4-6 : UTILITY BUILDINGS
MRP (MATERIAL RECOVERY FACILITY)
STRUCTURAL
TYPICAL FOOTING DETAIL
DETAIL SECTIONS

SHEET NO.:
B64-4200-03

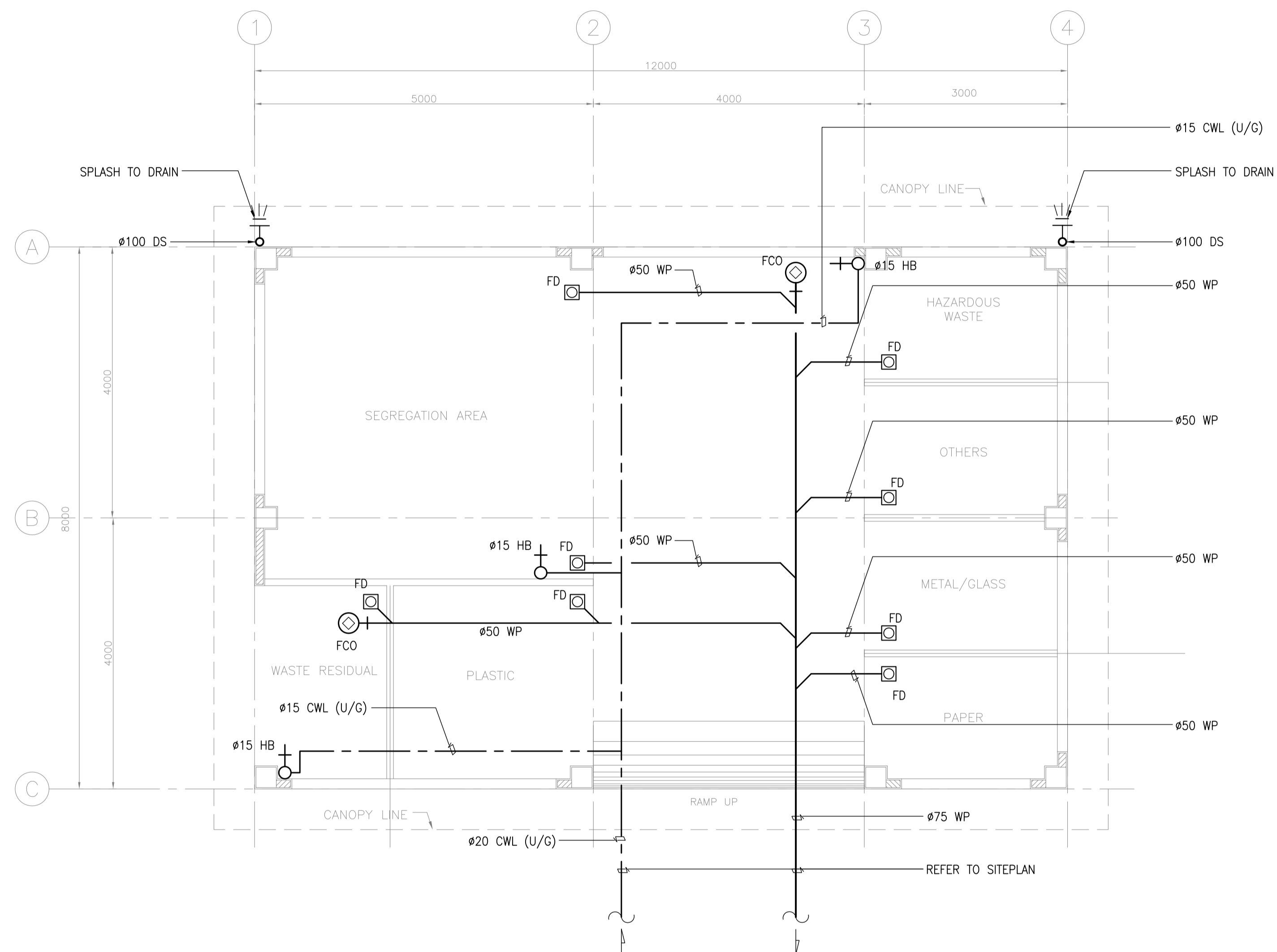
DRAWING SCALE:
AS SHOWN

DATE: JUNE 2013

INDEX

AMENDMENTS

Prepared by: FRS Jr. WIM HC
Checked by:
Validated by:



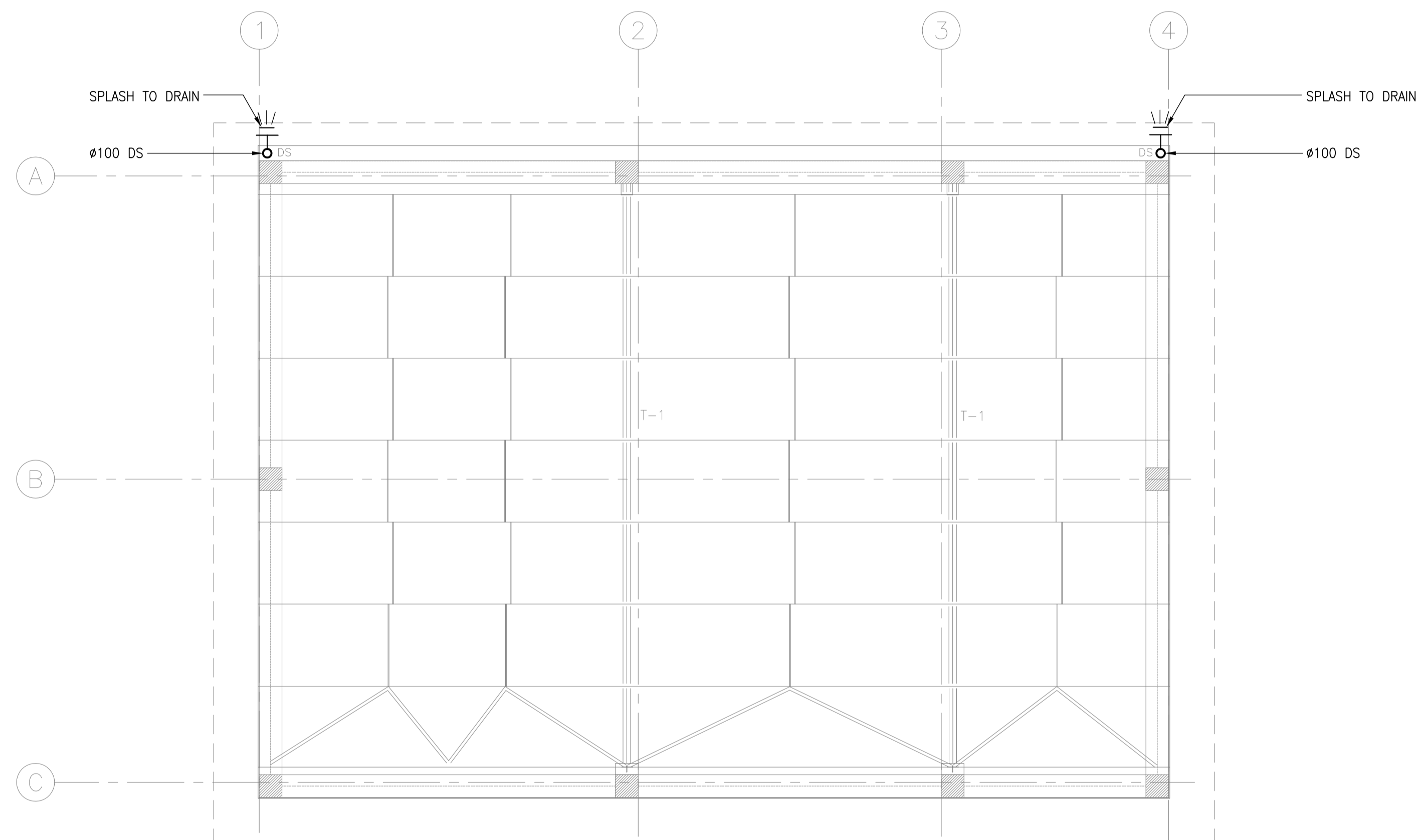
**MATERIAL RECOVERY FACILITY
SANITARY & PLUMBING LAYOUT**

1
B64-5100-01 SCALE 1:50M

	PREPARED BY: LEOVIMEL J. VINELES <small>Philippine Registered Engineer</small>	RECOMMENDING APPROVAL: 	APPROVED: 	PROJECT TITLE: 	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY	SHEET NO: B64-5100-01
	<small> PROF: SANITARY ENGINEER PTR: 2024236 REG. NO: 0002435 DATE: 07-09-2013 T.I.N: 237-852-802-000 PLACE: MANILA </small>	JILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE INDEX AMENDMENTS JUNE 2013	MECHANICAL SANITARY AND PLUMBING SANITARY & PLUMBING LAYOUT

CATCH BASIN SCHEDULE:

SYMBOL	PIT NAME	PIT DIM.	PIT DEPTH	MANHOLE SPECS.	REMARKS
□	CB-1	500x500	825 (MIN)	R.C. COVER W/ LIFTING HANDLE	



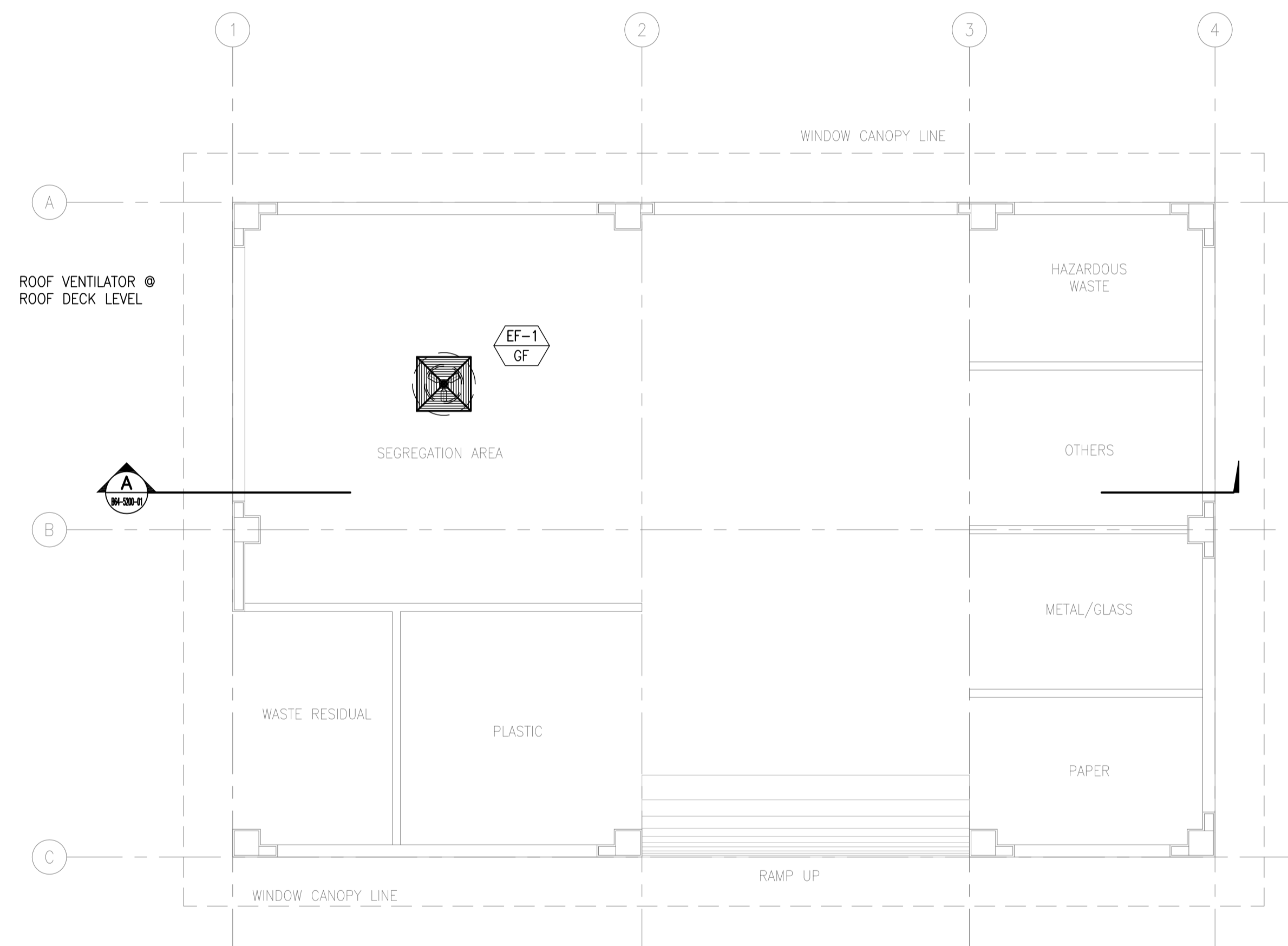
1
B64-5100-02 SCALE 1:50M

**MATERIAL RECOVERY FACILITY
ROOF DECK PLUMBING LAYOUT**

	PREPARED BY: LEOVIMEL J. VINELES <small>Philippine Registered Engineer</small> PROF: SANITARY ENGINEER PTR: 2024236 REG. NO.: 0002435 DATE: 07-09-2013 T.I.N.: 237-652-602-000 PLACE: MANILA	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY MECHANICAL SANITARY AND PLUMBING ROOF DECK PLUMBING LAYOUT	SHEET NO: B64-5100-02 DRAWING SCALE: 1:50M
	JICA DESIGN CONSULTANT JOINT VENTURE JUNE 2013 DATE INDEX AMENDMENTS Prepared by Checked by Validated by					

**MATERIAL RECOVERY FACILITY
EXHAUST FAN**

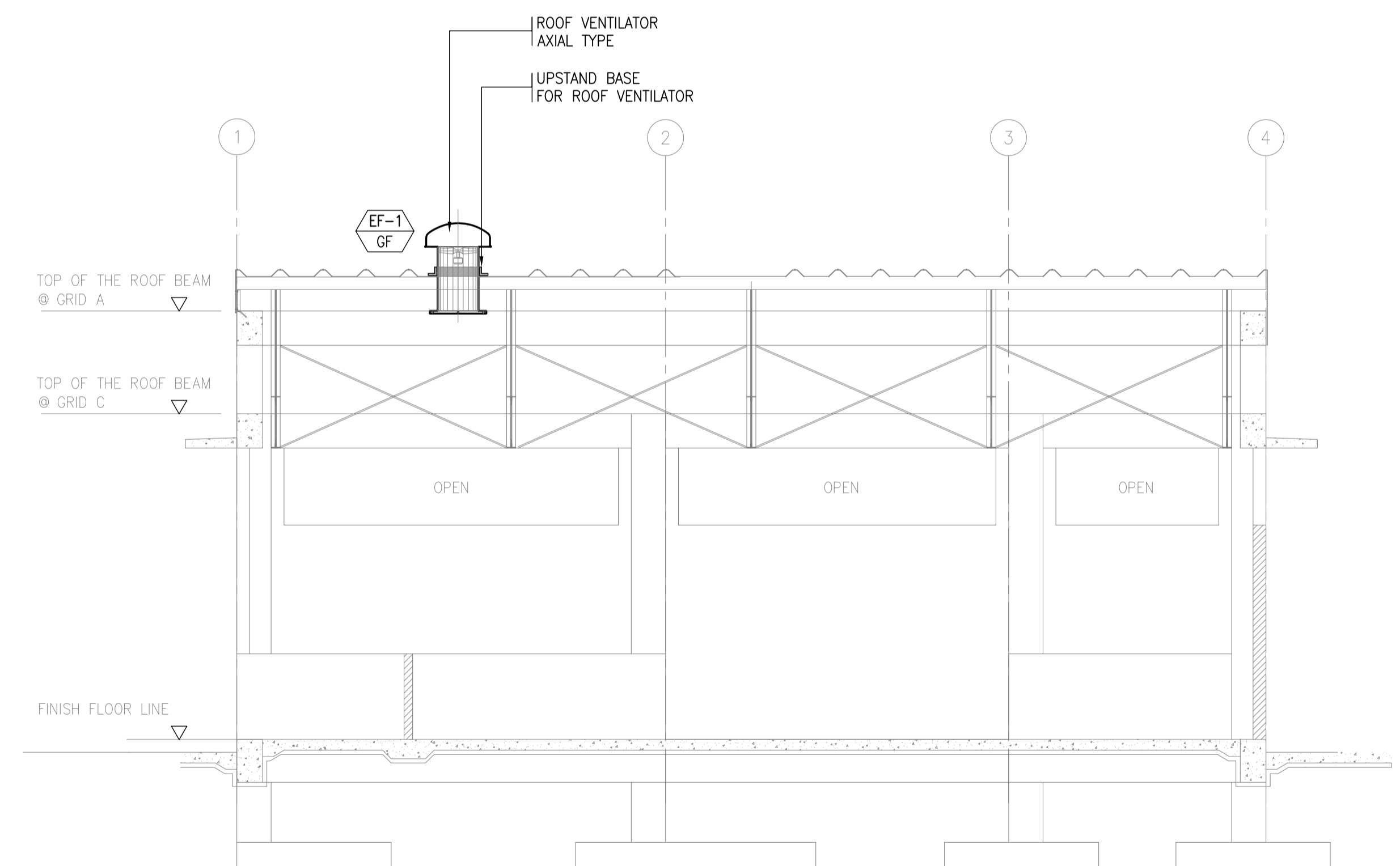
UNIT DESIGNATIONS	EQUIPMENT	AREA SERVED	QUANTITY	EQUIPMENT AIRFLOW (lps)	STATIC PRESSURE (Pa)	POWER INPUT (W)	ELECTRICAL CHARACTERICS			TYPE OF FAN
							VOLTS	PHASE	HERTZ	
EF-1 GF	EXHAUST FAN	SEGREGATION AREA	1	884	105	370	230	1	60	ROOF VENTILATOR (AXIAL TYPE)



1
B64-5200-01

**MATERIAL RECOVERY FACILITY
VENTILATION LAYOUT**

SCALE 1:50M

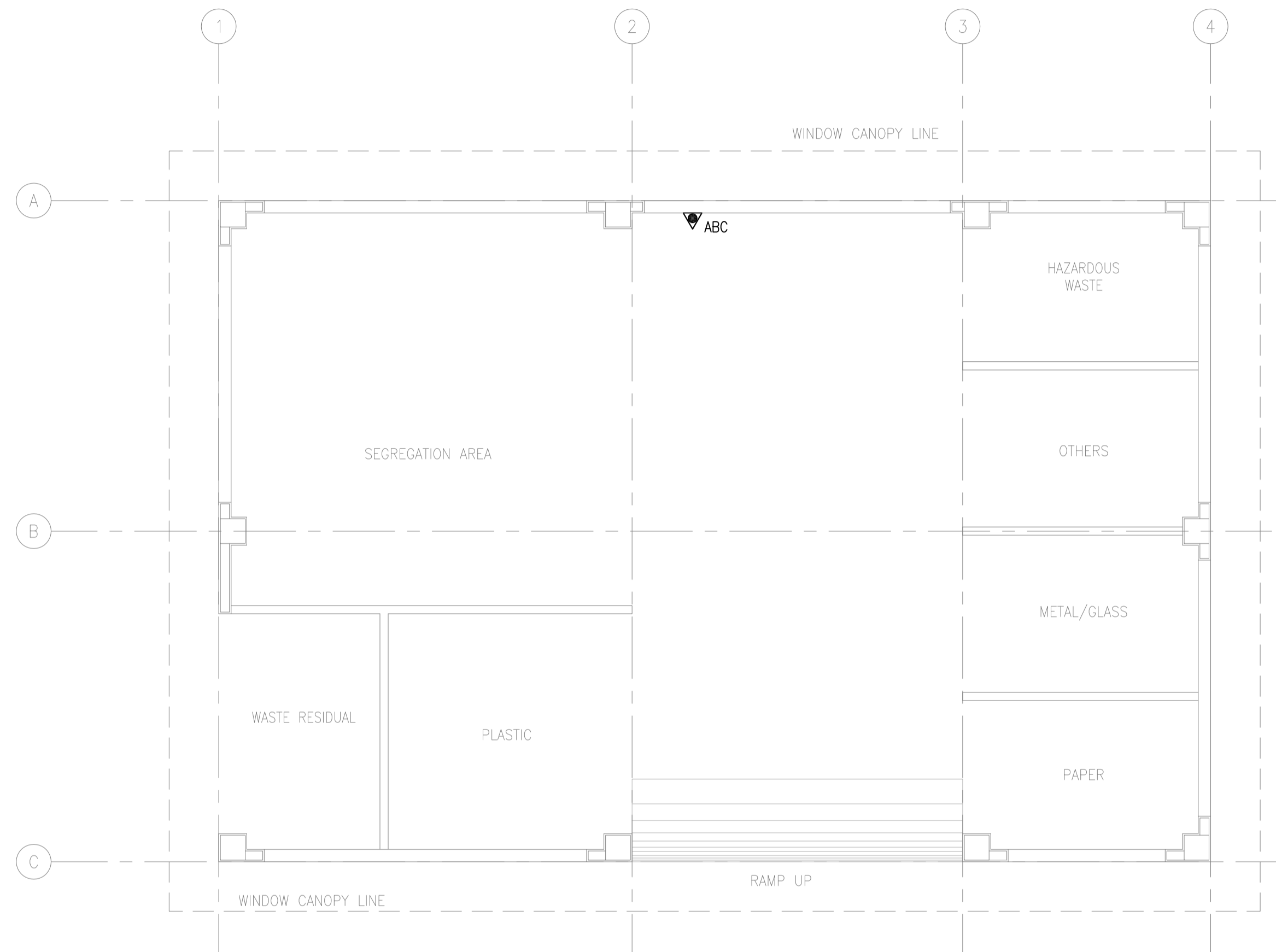


A
B64-5200-01

**MATERIAL RECOVERY FACILITY
SECTION "A"**

SCALE 1:50M

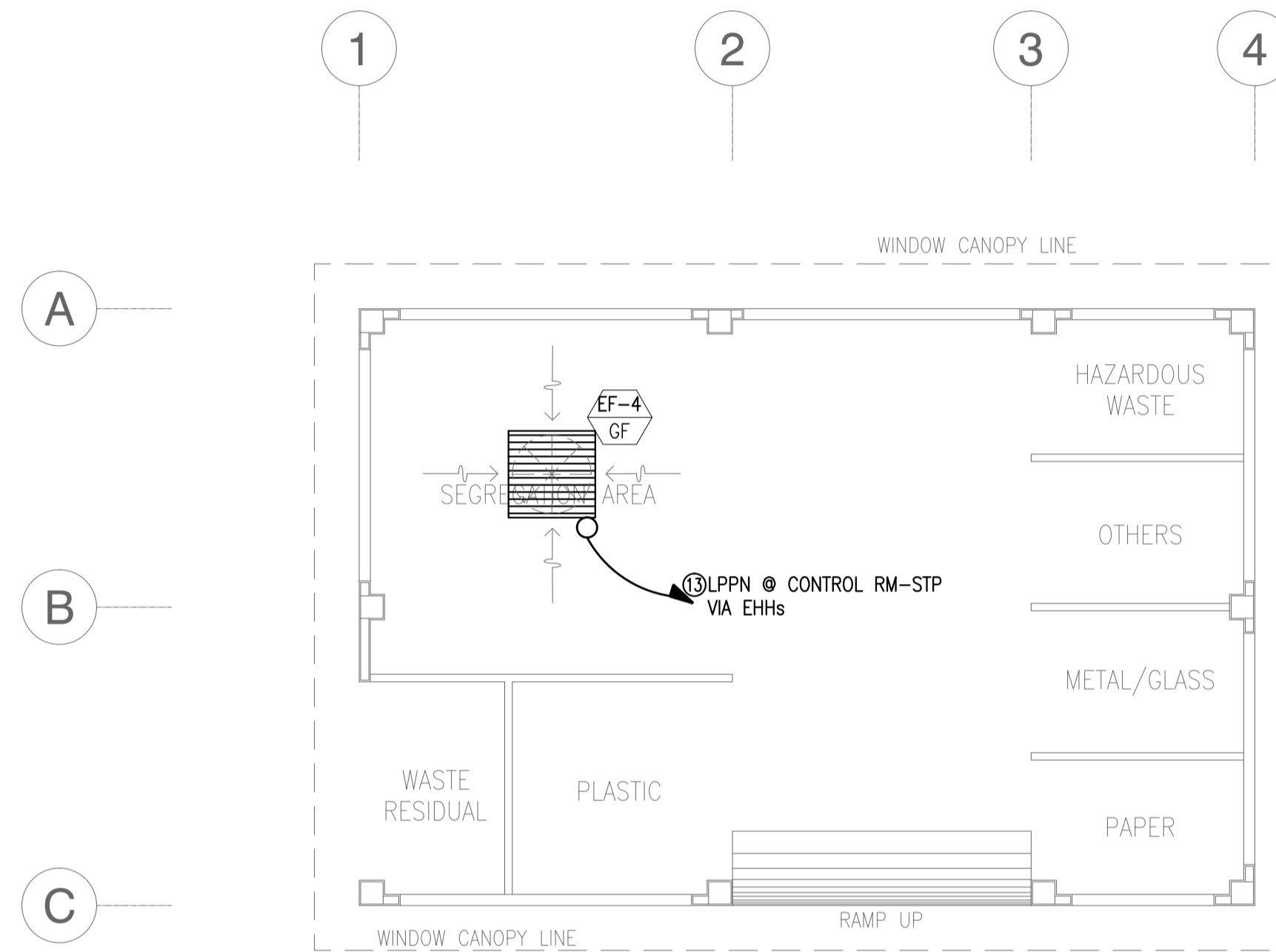
	PREPARED BY: RENATO A. ARRIOLA Filipino Registered Engineer PROF: MECHANICAL ENGINEER PIR. 1725187 REG. NO: 2379 DATE: JANUARY 01, 2013 T.I.N: 150-563-379 PLACE: TAGBILAR CITY	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY	SHEET NO: B64-5200-01
	JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI Team Leader	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	MECHANICAL VENTILATION AND AIR-CONDITIONING AIR-CONDITIONING AND VENTILATION LAYOUT	DRAWING SCALE: 1:50M	



1
**MATERIAL RECOVERY FACILITY
FIRE PROTECTION LAYOUT**
B64-5300-01 SCALE 1:50M

LEGEND:	
	4.5 KG. FIRE EXTINGUISHER DRY CHEMICAL

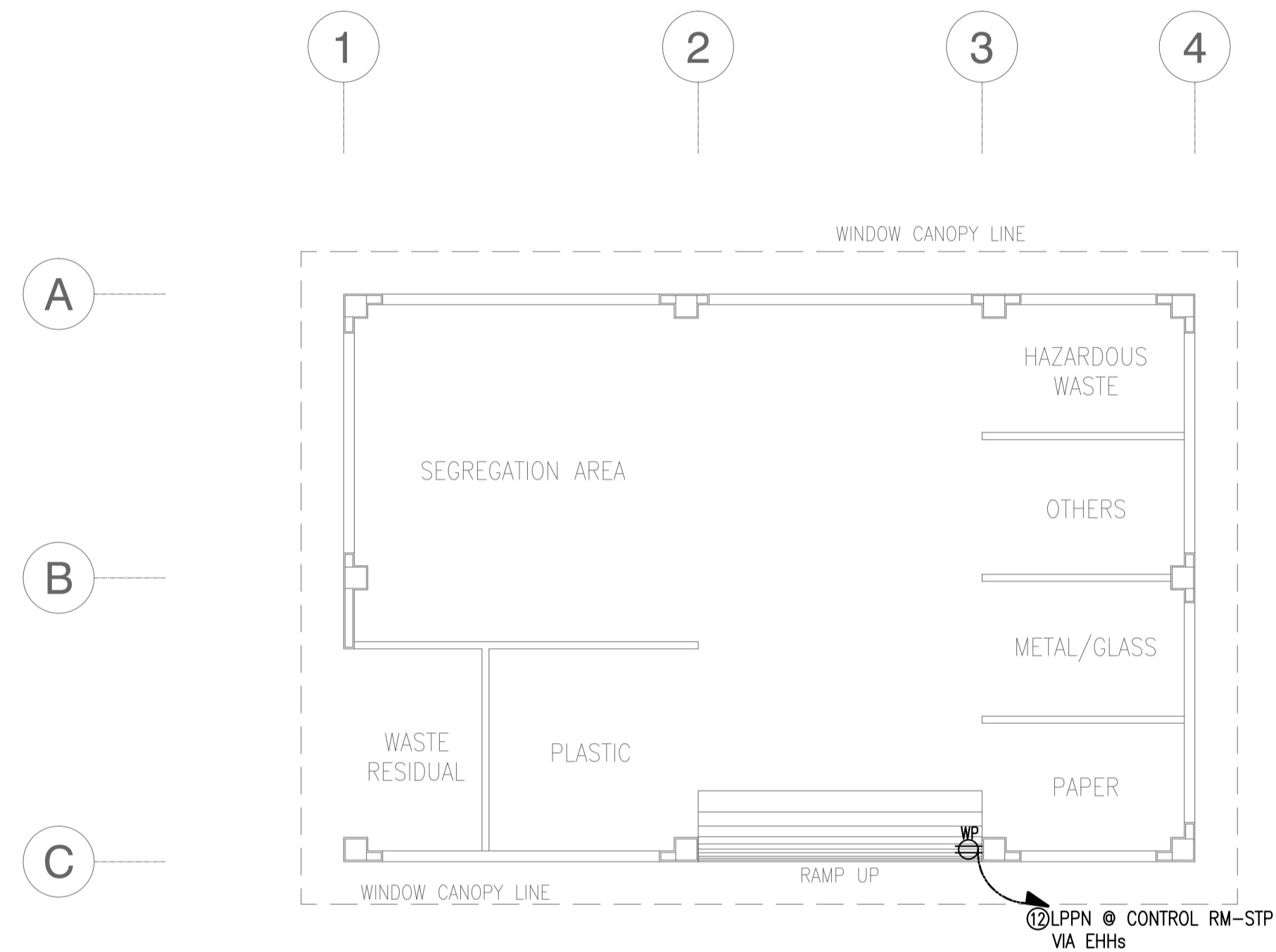
 Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	 JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: RENATO A. ARRIOLA <small>Filipino Registered Engineer</small> <small>PROF. MECHANICAL ENGINEER PTR. 1725187</small> <small>REG. NO. 2379 DATE: JANUARY 07, 2013</small> <small>T.I.N. 150-563-379 PLACE: TAGBILAR CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary</small> <small>for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary</small> <small>for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT <small>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES</small>	SHEET CONTENTS: COMPONENT-4: BUILDING WORKS (B) SUBCOMPONENT-4-6: UTILITY BUILDINGS (B64) MATERIAL RECOVER FACILITY MECHANICAL FIRE PROTECTION FIRE PROTECTION LAYOUT	SHEET NO: B64-5300-01 DRAWING SCALE: 1:50M
JICA DESIGN CONSULTANT JOINT VENTURE JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NJS CONSULTANTS CO., LTD.		TADASHI AOI <small>Team Leader</small>				DATE INDEX AMENDMENTS JUNE 2013 Prepared by: WIM Checked by: IIC Validated by:	



NOTE: REFER TO SHEET NO. B63-6200-01 FOR PANEL SCHEDULE.

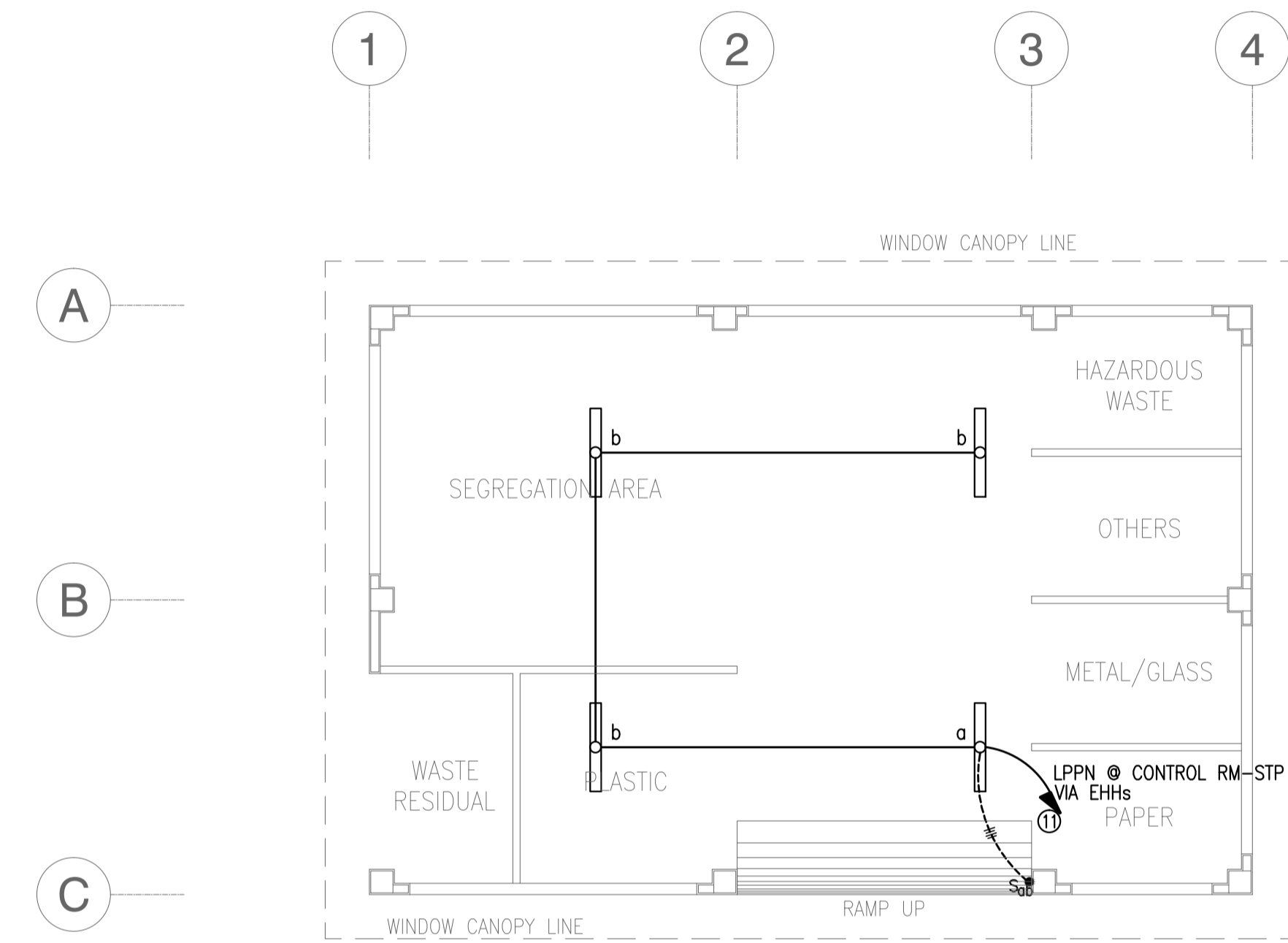
1 MATERIAL RECOVERY FACILITY (MRF)
VAC FEEDER LAYOUT PLAN
 B64-6100-01 GRAPHIC SCALE 0 1 2 5m

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B64) Material Recover Facility ELECTRICAL VAC FEEDER LAYOUT	SHEET NO: B64-6100-01 DRAWING SCALE: 1:75 m
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAPAN AIRPORT CONSULTANTS, INC. NIPPOK KOEI CO., LTD. NIS CONSULTANTS CO., LTD.</small>	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



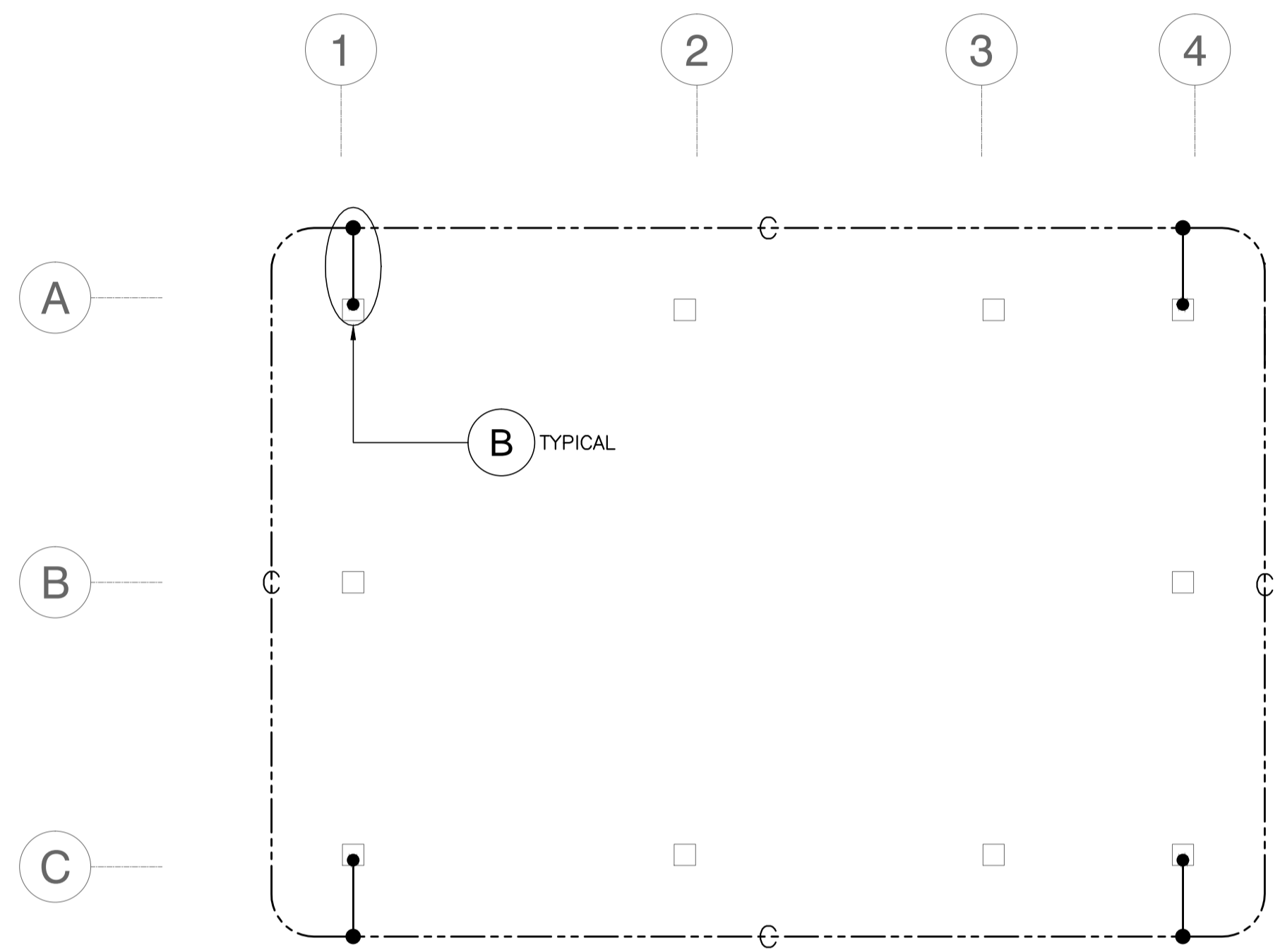
1 MATERIAL RECOVERY FACILITY (MRF)
RECEPTACLE LAYOUT PLAN
B64-6200-01 GRAPHIC SCALE

NOTE: REFER TO SHEET NO. B63-6200-01 FOR PANEL SCHEDULE.



2 MATERIAL RECOVERY FACILITY (MRF)
LIGHTING LAYOUT PLAN
B64-6200-01 GRAPHIC SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: 	APPROVED: 	PROJECT TITLE: 	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B64) Material Recover Facility ELECTRICAL RECEPTACLE & LIGHTING LAYOUT	SHEET NO: B64-6200-01
	JICA DESIGN CONSULTANT JOINT VENTURE TADASHI AOI Team Leader	ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC	JULJANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	DATE: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: 1:75 m



NOTE: REFER TO SHEET NO. B0-6900-04 FOR DETAILS.

1 MATERIAL RECOVERY FACILITY (MRF)
GROUND FLOOR GROUNDING SYSTEM PLAN
 B64-6900-01 GRAPHIC SCALE 0 1 2 5m

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-6 (B64) Material Recover Facility ELECTRICAL GROUNDING LAYOUT	SHEET NO: B64-6900-01 DRAWING SCALE: 1:75 m
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.	TADASHI AOI <small>Team Leader</small>	ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by: