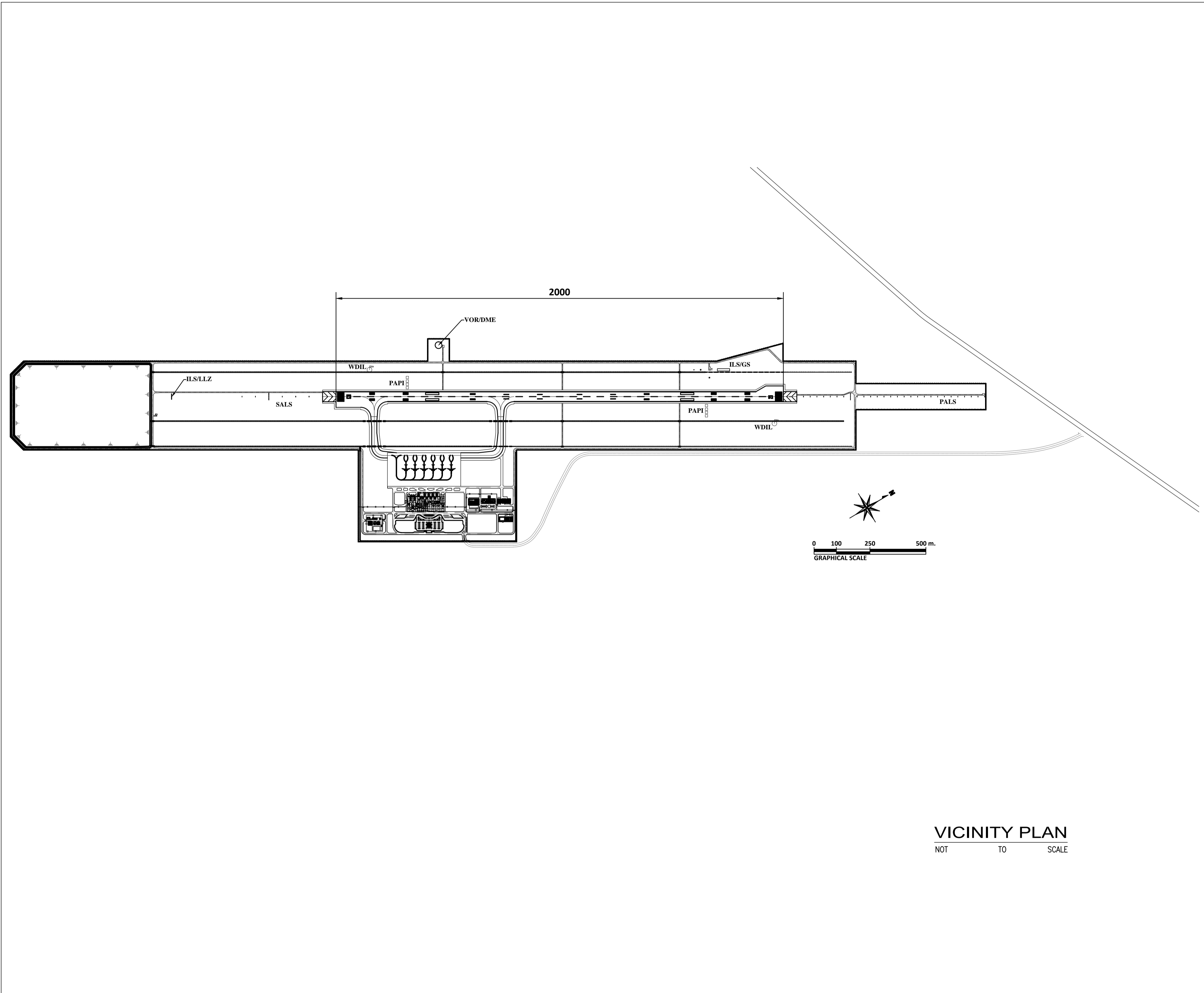


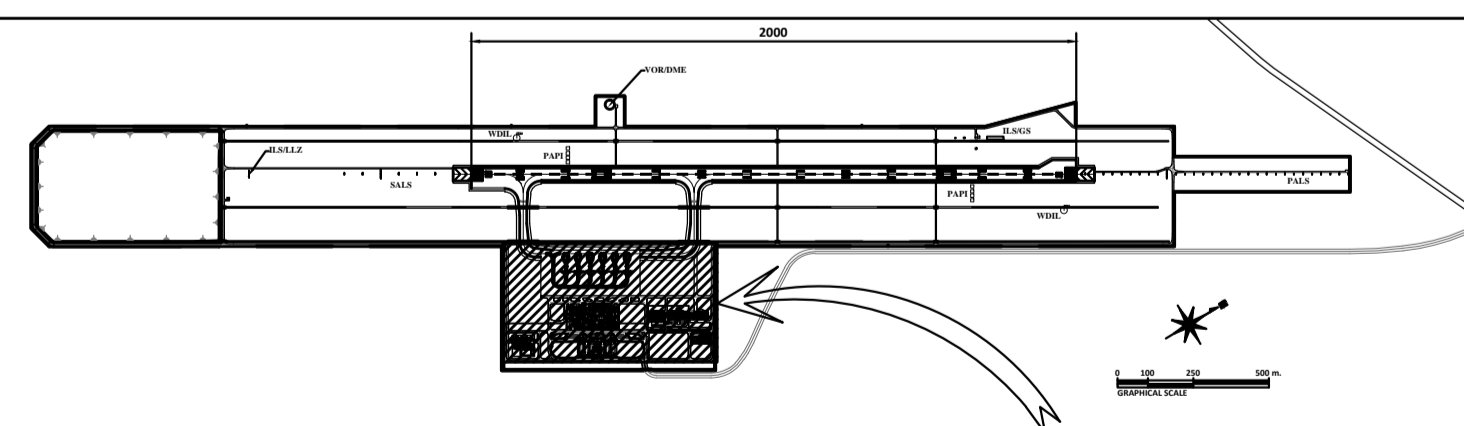
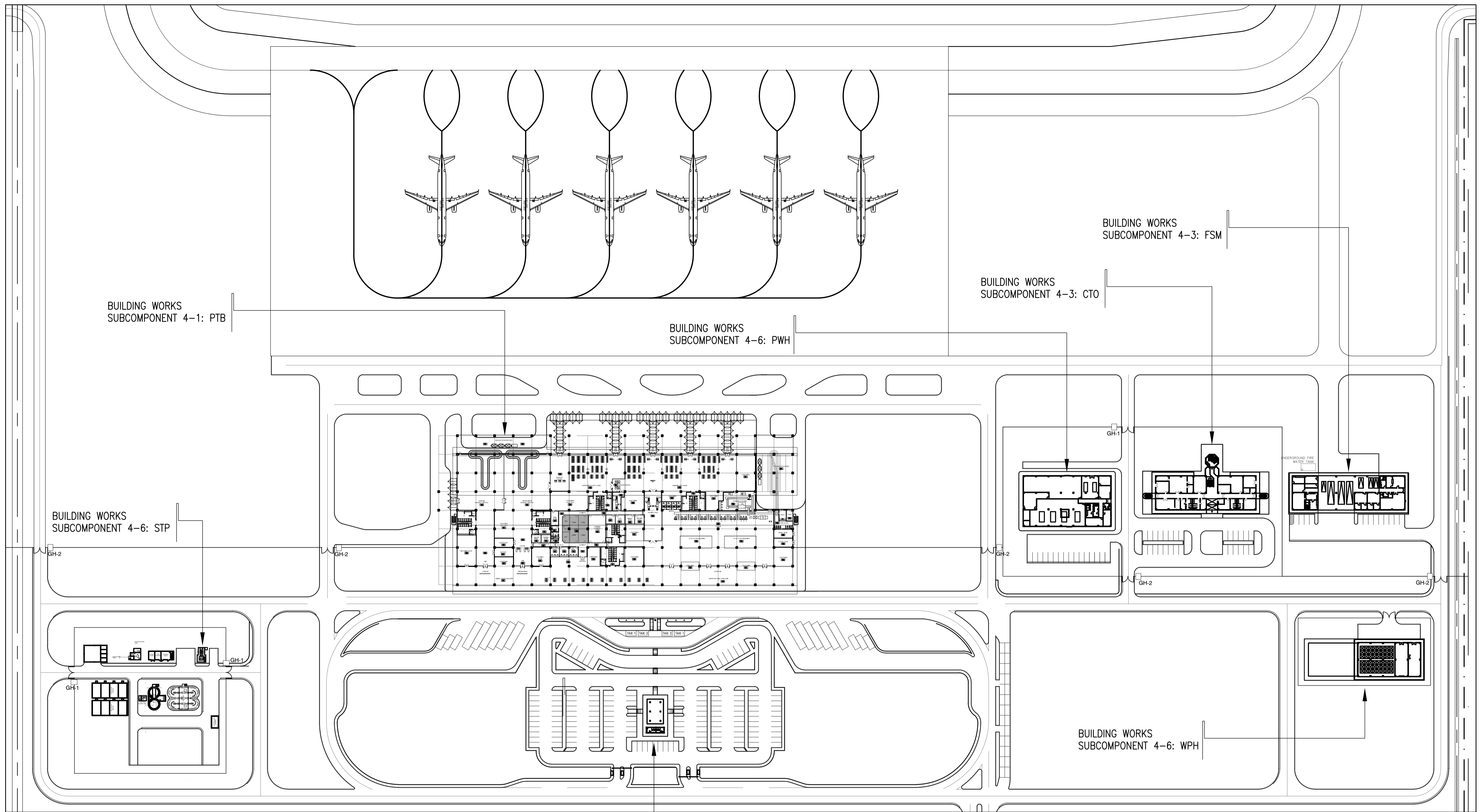
GENERAL NOTES

1. ALL ELECTRICAL INSTALLATION HEREIN SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE. THE RULES, REGULATIONS AND REQUIREMENTS OF THE LOCAL POWER COMPANY AND THE LAWS AND ORDINANCES OF THE LOCAL ENFORCING AUTHORITY.
2. ELECTRIC SERVICE SHALL BE 3φ, 3-WIRE, 13.2kV, 60HZ
3. THE CONTRACTOR SHALL VERIFY AND PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE.
4. ALL CONDUCTORS SHALL BE COPPER, TYPE XLPE AND THHN 90°C, 600 VOLT INSULATION. MINIMUM SIZE SHALL BE 3.5mm², UNLESS OTHERWISE SPECIFIED.
5. ALL MATERIALS SHALL BE NEW AND OF THE APPROVED TYPE FOR THE LOCATION INTENDED.
6. ALL 20 AMPERE CIRCUIT HOMERUNS TO PANELBOARD, MORE THAN 30.0M(100FT) IN LENGTH SHALL BE 5.5mm², UNLESS OTHERWISE SPECIFIED.
7. STANDARD TYPE OF ACCESSORIES, SPLICING DEVICES, TERMINATION AND OTHER APPURTENANCES FOR THE ENTIRE ELECTRICAL INSTALLATIONS SHALL BE USED EVEN IF THESE ARE NOT INDICATED ON THE PLAN AND BILL OF QUANTITIES.
8. FOR ACTUAL LOCATION OF LIGHTING FIXTURES MOTORS AND OTHER ELECTRICAL EQUIPMENT SEE ARCHITECTURAL, MECHANICAL, FIRE PROTECTION AND SANITARY DRAWINGS.
9. ALL NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, LIGHTING FIXTURE AND POWER OUTLET SHALL BE EFFECTIVELY GROUNDING.
10. CONDUITS AND OTHER WIRE ROUTING SHOWN ARE ONLY REPRESENTATION THE CONTRACTOR, SHALL SUBMIT SHOP DRAWINGS ON ALL PROPOSED ROUTING (SHOWN OR EVEN NOT SHOWN IN THE PLAN) AND INSTALLATION FOR APPROVAL.
11. BOXES SHALL BE MADE OF CODE GAGE STEEL WITH ZINC CHROMATE PROTECTION.
12. MOUNTING HEIGHTS FOR SWITCHES AND CONVENIENCE OUTLETS SHALL BE 1.37M AND 0.30M RESPECTIVELY, UNLESS OTHERWISE NOTED.
13. EXPOSED CONDUIT RUNS & CABLE TRAY SHALL BE INSTALLED PARALLEL TO OR PERPENDICULAR WITH THE BUILDING LINE AND SUPPORTED BY CONDUIT CLAMPS EVERY 1.5M.
14. PULLBOXES SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER NECESSARY TO FACILITATE WIRE PULLING EVEN IF THESE ARE NOT INDICATED ON THE PLANS.
15. LAYOUT DIMENSION SHOWN IN DRAWINGS ARE APPROXIMATE ONLY AND INTENDED TO SERVE AS AN INSTALLATION GUIDE. DIMENSION MAY BE ADJUSTED AS REQUIRED TO MEET FIELD CONDITION. WHENEVER FIELD CONDITION OR EXIGENCIES OF CONSTRUCTION MAKE DEPARTURE FROM THE LAYOUT SHOWN, DETAIL OF SUCH DEPARTURE FROM PLAN AND REASON THEREOF SHALL BE SUBMITTED TO THE OWNER OR HIS DULY AUTHORIZED REPRESENTATIVE AND NO DEPARTURE SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE AUTHORITIES CONCERNED.
16. ELECTRICAL WORKS SHALL BE UNDER THE FULL SUPERVISION OF A DULY LICENSED AND PROFESSIONAL ELECTRICAL ENGINEER.



VICINITY PLAN
NOT TO SCALE

	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</small> for Project Implementation, DOTC	APPROVED BY: JULIANITO G. BUCAYAN, JR. <small>Undersecretary</small> 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-4-0 (B0) General ELECTRICAL GENERAL NOTES & VICINITY PLAN	SHEET NO: B0-6000-01
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI Team Leader	JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



KEY PLAN
NOT TO SCALE

1 LANDSIDE DEVELOPMENT PLAN
80-6000-04 GRAPHIC SCALE 0 10 20 50 100m

	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	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL LANDSIDE DEVELOPMENT PLAN	SHEET NO: BO-6000-02
	JICA DESIGN CONSULTANT JOINT VENTURE	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:

POWER DISTRIBUTION		
SYMBOLS	DESCRIPTION	REMARKS
	AMMETER	
	VOLTMETER	
	WATT METER	
	KILOWATT-HOUR METER	
	POWER-FACTOR METER	
	FREQUENCY METER	
	RUNNING HOUR METER	
	TIMER (24 HOURS)	
	VAR HOUR METER	
	NEUTRAL GROUNDING RESISTOR	
	CAPACITOR BANK	
	DIESEL ENGINE GENERATOR	
	FRAME, TO GROUNDING	
	POWER TRANSFORMER (RATING AS INDICATED IN DRAWINGS)	
	VOLTMETER CHANGE OVER SWITCH	
	AMMETER CHANGE OVER SWITCH	
	POTENTIAL TRANSFORMER	
	CURRENT TRANSFORMER	
	POTENTIAL TRANSFORMER	
	GROUNDING (FAULT) PROTECTIVE RELAY SWITCHGEAR	
	DISCONNECTING SWITCH (MANUAL HANDLE OPERATED)	
	VACUUM CIRCUIT BREAKER	
	POWER CIRCUIT BREAKER	
	MOLDED CASE CIRCUIT BREAKER	
	ELECTROMAGNETIC CONTRACTOR	
	VACUUM MAGNETIC CONTRACTOR	
	SERIES REACTOR	
	STATIC CAPACITOR	
3-250mm ²	3 CORES-250 SQUARE MILLIMETERS (CONDUCTOR)	
XLPE	600 VOLT CROSS-LINKED POLYETHYLENE INSULATED CABLE	
15KV XLPE	15000 VOLT CROSS-LINKED POLYETHYLENE INSULATED CABLE	
	POWER FUSE	
	LOAD BREAK SWITCH	
	DISCONNECTING SWITCH (MANUAL HANDLE OPERATED)	
	DISCONNECTING SWITCH (MOTOR DRIVEN)	
	LIGHTNING ARRESTER	
	SURGE ARRESTER	
< >	MEANS DRAWING OUT TYPE	

POWER DISTRIBUTION		
SYMBOLS	DESCRIPTION	REMARKS
	AC UNDER VOLTAGE	RECEIVE
	RELAY	EMERGENCY
	AC OVER CURRENT RELAY	RECEIVE
		ENGINE GENERATOR
		CAPACITY
		FEEDER
		EMERGENCY GROUND
		SECONDARY
		GROUND
	AC OVER CURRENT	NEUTRAL
	GROUND RELAY	EMERGENCY GROUND
		EMERGENCY NEUTRAL
	AC OVER VOLTAGE RELAY	EMERGENCY GENERATOR
	AC VOLTAGE RELAY	EMERGENCY GENERATOR
	CURRENT DIFFERENTIAL RELAY	TRANSFORMER
	DISCONNECTING SWITCH	RECEIVE
	DIRECTIONAL SHORT CIRCUIT RELAY	
	OVER VOLTAGE RELAY	RECEIVE
	OVERCURRENT RELAY	
	MEASUREMENT RELAY	
	CURRENT TRANSDUCER FOR TELEMETERING	
	VOLTAGE TRANSDUCER FOR TELEMETERING	
	POWER-FACTOR TRANSDUCER FOR TELEMETERING	
	FREQUENCY TRANSDUCER FOR TELEMETERING	
	TIMER (24 HOURS, FREQUENTLY)	
	HIGH TENSION POWER FUSE	
	ELECTRICAL MANHOLE	
	ELECTRICAL HANDHOLE	
	CABLE TERMINATION HEAD	
	TEST TERMINAL (DRAWING OUT TYPE)	

AUXILIARY		
SYMBOLS	DESCRIPTION	REMARKS
	FIRE ALARM CONTROL PANEL	REFER TO NOTES
	REMOTE TELEPHONE HANDSET	REFER TO NOTES
	REMOTE ANNUNCIATOR PANEL	
	FIRE ALARM TERMINAL CABINET	
	SUPERVISORY WORK STATION	REFER TO NOTES
	FIRE ZONE LOCATOR	
	FIREMAN'S/MAINTENANCE TELEPHONE JACK	
	FIREMAN ALARM MANUAL PULL STATION	
	ALARM HORN STROBE	
	ALARM BELL	
	PHOTOELECTRIC SMOKE DETECTOR	SURFACE TYPE
	PHOTOELECTRIC SMOKE DETECTOR	INSTALLED IN ABOVE CEILING OR VOID SPACE
	AIRCON DUCT PHOTOELECTRIC SMOKE DETECTOR	
	PHOTOELECTRIC SMOKE DETECTOR	WALL MOUNTED
	FIXED TYPE PHOTOELECTRIC HEAT DETECTOR	
	RATE OF RISE PHOTOELECTRIC HEAT DETECTOR	
	MAIN DISTRIBUTION FRAME	
	PRIVATE ADDRESS BRANCH EXCHANGE	
	INTERMEDIATE DISTRIBUTION FRAME	
	DATA TERMINAL BOARD	FOR DATA ONLY
	TELEPHONE TERMINAL BOARD	FOR TELEPHONE ONLY
	TERMINAL BOARD	MAY COMBINED WITH TELEPHONE, CCTV, CATV OR SYNCHRONIZING CLOCK, WITH PARTITION
	COMPUTER DATA LINE OUTLET WITH RJ45 DEVICE	WALL MOUNTED
	COMPUTER DATA LINE OUTLET WITH RJ45 DEVICE	FLOOR MOUNTED
	TELEPHONE OUTLET WITH RJ11 DEVICE	WALL MOUNTED
	TELEPHONE OUTLET WITH RJ11 DEVICE	FLOOR MOUNTED
	CAMERA WITH MOTORIZED CONTROL ZOOM LENS	INDOOR TYPE
	CAMERA WITH MOTORIZED CONTROL ZOOM LENS	OUTDOOR TYPE
	INLINE SLOPE EQUALIZER	
	AMPLIFIER FOR SIGNAL	
	4-WAY SPLITTER	
	2-WAY SPLITTER	
	TV UNIT OUTLET	
	MASTER CLOCK	
	SINGLE FACED ANALOG SLAVE CLOCK	
	SINGLE FACED DIGITAL SLAVE CLOCK	
	GPS ANTENNA/RECEIVER	
	SPEAKER WITH CEILING GRILL, 6W	WIDE DISPERSION TYPE
	SPLASHPROOF SPEAKER, 20W	
	WALL MOUNTED SPEAKER, 30W	
	WALL MOUNTED SPEAKER, 30W	
	PAGING HORN SPEAKER, 15W	
	PAGING HORN SPEAKER, 60W	
	ATTENUATOR, 0.5-30W	
	DESK TOP MICROPHONE	
	NOISE SENSING MICROPHONE	
	POWER AMPLIFIER (POWER OUTPUT AS INDICATED ON DRAWINGS)	

		PREPARED BY: TEODORO N. PAMATMAT <small>PROF. PROF. ELECTRICAL ENGINEER PTR. 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 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL LEGEND AND SYMBOLS1	SHEET NO: BO-6000-03
		JICA DESIGN CONSULTANT JOINT VENTURE 	TADASHI AOI Team Leader	DATE: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN

LIGHTING AND RECEPTACLE		
SYMBOLS	DESCRIPTION	REMARKS
	1 x 36W FLUO. FIXTURE, LOOVER TYPE, SURFACE MTD.	
	1 x 36W FLUO. FIXTURE, V-SHAPE TYPE, SURFACE MTD.	
	1 x 36W FLUO. FIXTURE, TROFFER TYPE RECESSED MTD. WITH LOOVER	
	1 x 36W FLUO. FIXTURE, VAPOR TIGHT, SURFACE MTD.	
	1 x 36W FLUO. FIXTURE, VAPOR TIGHT, WALL MTD.	
	2 x 36W FLUO. FIXTURE, LOOVER TYPE, SURFACE MTD.	NON-SHADED QUADRANT = NORMAL SUPPLY
	2 x 36W FLUO. FIXTURE, V-SHAPE TYPE, SURFACE MTD.	SHADED QUADRANT = NORMAL/EMERGENCY SUPPLY
	2 x 36W FLUO. FIXTURE, TROFFER TYPE RECESSED MTD. WITH LOOVER	SEE LIGHTING DETAILS
	1 x 18W FLUO. FIXTURE, LOOVER TYPE, RECESSED MTD.	
	4 x 18W FLUO. FIXTURE, TROFFER TYPE RECESSED MTD. WITH LOOVER	
	1 x 18W PLC, RECESSED MOUNTED TYPE, DOWN LIGHT	
	WALL LAMP W/ 1 x 18W CFL	
	1 x 18W PLC, RECESSED MOUNTED TYPE, DOWN LIGHT (WEATHERPROOF TYPE)	
	1 x 18W CFL (WEATHERPROOF TYPE)	
	WALL LAMP W/ 1 x 18W CFL (WEATHERPROOF TYPE)	NORMAL SUPPLY, SEE LIGHTING DETAILS
	METAL HALIDE, WATTAGE AS INDICATED IN DRAWING	NORMAL SUPPLY, SEE LIGHTING DETAILS
	EXIT SIGN LIGHT, SHADED QUADRANT INDICATES SIGN LETTER FACE CEILING / WALL MOUNTED	NORMAL/EMERGENCY SUPPLY, SEE LIGHTING DETAILS
	DUPLEX RECEPTACLE, 15A, 240V, PARALLEL BLADE GROUNDING SLOT	
	DUPLEX RECEPTACLE, 15A, 240V, PARALLEL BLADE GROUNDING SLOT (FLOOR MTD.)	
	DUPLEX RECEPTACLE, 15A, 240V, PARALLEL BLADE GROUNDING SLOT (WEATHERPROOF TYPE)	
	TWISTLOCK RECEPTACLE, 15A, 240V, PARALLEL BLADE GROUNDING SLOT	
	HANDDRYER OUTLET, SINGLE RECEPTACLE, 15A, 240V, PARALLEL BLADE GROUNDING SLOT (STAINLESS STEEL COVER)	
	ACU RECEPTACLE, 20A, 240V, 3W, SAME CONFIGURATION AS ACU PLUG, WITH PLATE	
	MANUAL DISCONNECT SWITCH SIZE AND RATING AS INDICATED IN DRAWING	
	WATER HEATER, MANUAL DISCONNECT SWITCH, SIZE AND RATING AS INDICATED IN DRAWING	
	JUNCTION BOX	
	LIGHT SWITCH, FLUSH TUMBLER, 1 WAY 1-GANG, 15A, 300V	
	LIGHT SWITCH, FLUSH TUMBLER, 3WAY / 4WAY 1-GANG, 15A, 300V	
	LETTER INDICATES FIXTURE OR DEVICE CONTROLLED BY SWITCH "a" OTHER LETTERS, SAME	
	RACEWAY CONCEALED IN CEILING OR WALL, NO HATCH MARK INDICATES 3 x 3.5mm ² THHN WIRES (UNLESS OTHERWISE INDICATED) WITHIN INCLUDING GROUND. HATCH MARKS INDICATE NUMBER OF WIRES WITHIN INCLUDING GROUND	
	RACEWAY CONCEALED BELOW, FIN. FLR. "DITTO"	
	CIRCUIT HOMERUN	
	RISER UP OR RISER DOWN	
	COUNTERPOISE	
	GROUND WIRE	
	ENCLOSED CIRCUIT BRAKER, SIZE AND RATING AS INDICATED IN DRAWING	
	PANELBOARD	NORMAL SUPPLY
	PANELBOARD	NORMAL/EMERGENCY SUPPLY

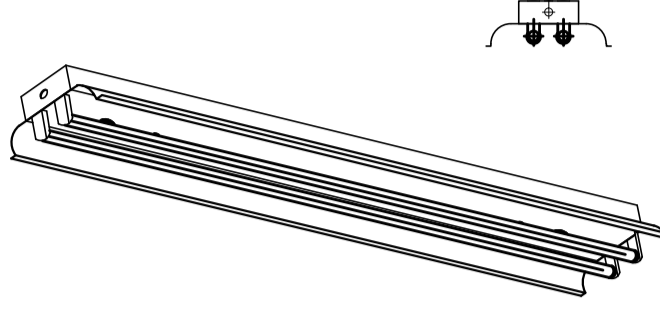
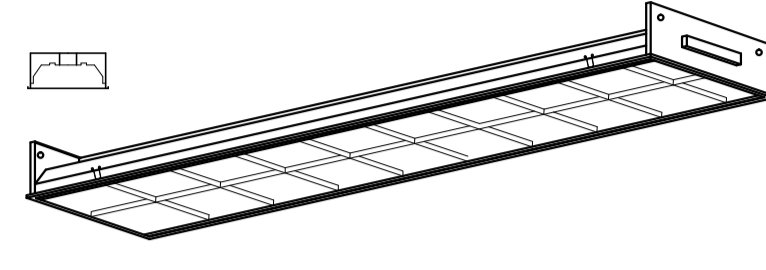
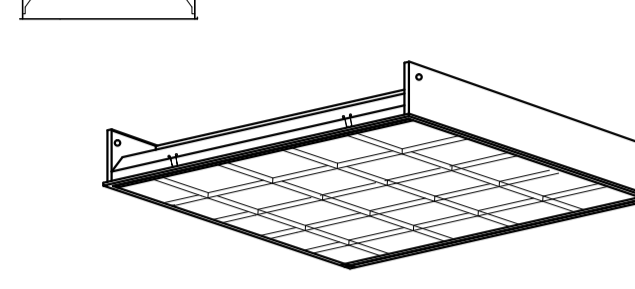
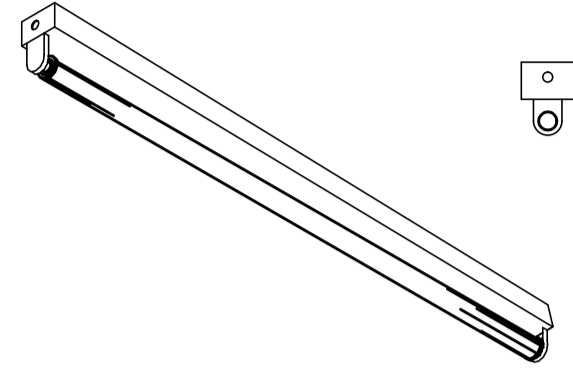
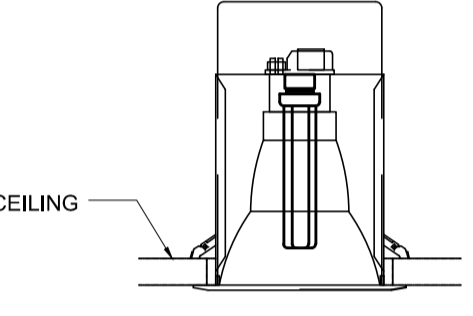
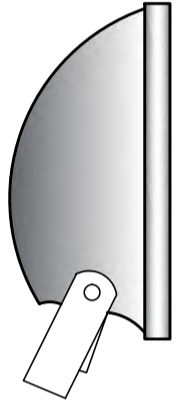
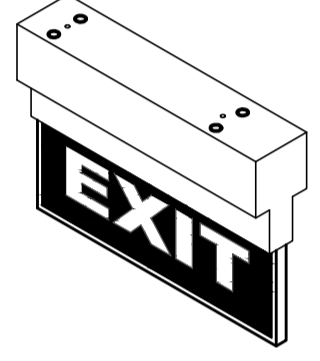




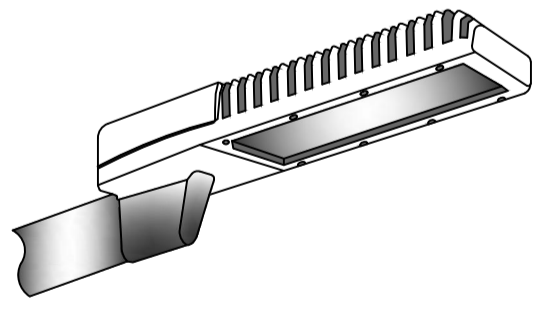


ABBREVIATIONS	
BOHECO	BOHOL ELECTRIC COOPERATIVE
HVSG	HIGH VOLTAGE SWITCH GEAR (13.2kV)
MVSG	HIGH VOLTAGE SWITCH GEAR (4.16kV)
LVSG	LOW VOLTAGE SWITCH GEAR (230V)
GSG	GENERATOR SWITCH GEAR
CCR	CONSTANT CURRENT REGULATOR
CB	CIRCUIT BREAKER
DC	DIRECT CURRENT (DEVICE)
MCC	MOTOR CONTROL CENTER
ABN	AERODROME BEACON
E.I.	ELECTRICAL INTERLOCK
M.I.	MECHANICAL INTERLOCK
3ø 3W	THREE PHASE, THREE WIRE
1ø 2W	ONE PHASE, TWO WIRE
4P	FOUR POLES
3P	THREE POLES
2P	TWO POLES
V	VOLTAGE (VOLTS)
A	CURRENT (AMPERE/S)
kW	REAL POWER (KILO-WATT)
kVAR	REACTIVE POWER (REACTIVE KILO-VOLT AMPERE)
kVA	APPARENT POWER (KILO-VOLT AMPERE)
kAIC	KILO-AMPERE INTERRUPTING CAPACITY
" N	NORMAL SUPPLY
" NE	NORMAL/EMERGENCY SUPPLY
VAC	VENTILLATION AND AIRCONDITIONING
PTB	PASSENGER TERMINAL BUILDING
CTO	CONTROL TOWER, ATC OPERATION AND ADMINISTRATION BUILDING
FSM	FIRE STATION AND AIRPORT MAINTENANCE BUILDING
DRL	DRIVER'S LOUNGE
CPT	CAR PARK TOILET
GDH	GUARD HOUSE
TLB	TOLL BOOTH
WPH	WATER TANK AND PUMP HOUSE
PWH	POWER HOUSE
STP	SEWAGE TREATMENT PLANT
MRF	MATERIAL RECOVERY FACILITY
LLZ	LLZ BUILDING
GSB	GS BUILDING
VOR	VOR BUILDING
JIS	JAPANESE INDUSTRIAL STANDARD
PEC	PHILIPPINE ELECTRICAL CODE
IEC	INTERNATIONAL ELECTROTECHNICAL COMMISSION

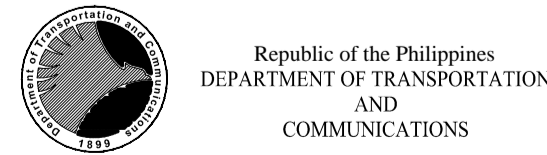




METRIC - ENGLISH CONVERSION TABLE				
WIRES AND CABLES			CONDUIT	
mmØ SOLID	AWG	MCM	mmØ	inØ
1.25	NO. 16		15	1/2
1.6	NO. 14		20	3/4
2.0	NO. 12		25	1
2.6	NO. 10		32	1-1/4
mm ² STRANDED			40	1-1/2
1.25	NO. 16		50	2
2	NO. 14		65	2-1/2
3.5	NO. 12		75	3
5.5	NO. 10		90	3-1/2
8	NO. 8		100	4
14	NO. 6			
22	NO. 4			
30	NO. 2			
38	NO. 1			
50	1/0			
60	2/0			
80	3/0			
100	4/0			
125		250		
150		300		
175		350		
200		400		
250		500		

NOTE: CONDUIT SIZES IN (mmØ) ARE BASED ON INSIDE DIAMETER.

NEAREST EQUIVALENT PNS - IEC	
PNS	IEC
mm ² STRANDED	mm ² STRANDED
3.5	2.5
5.5	4
8	6
14	10
22	16
30	25
38	35
50	50
80	70
100	95
125	120
150	150
200	185
250	240

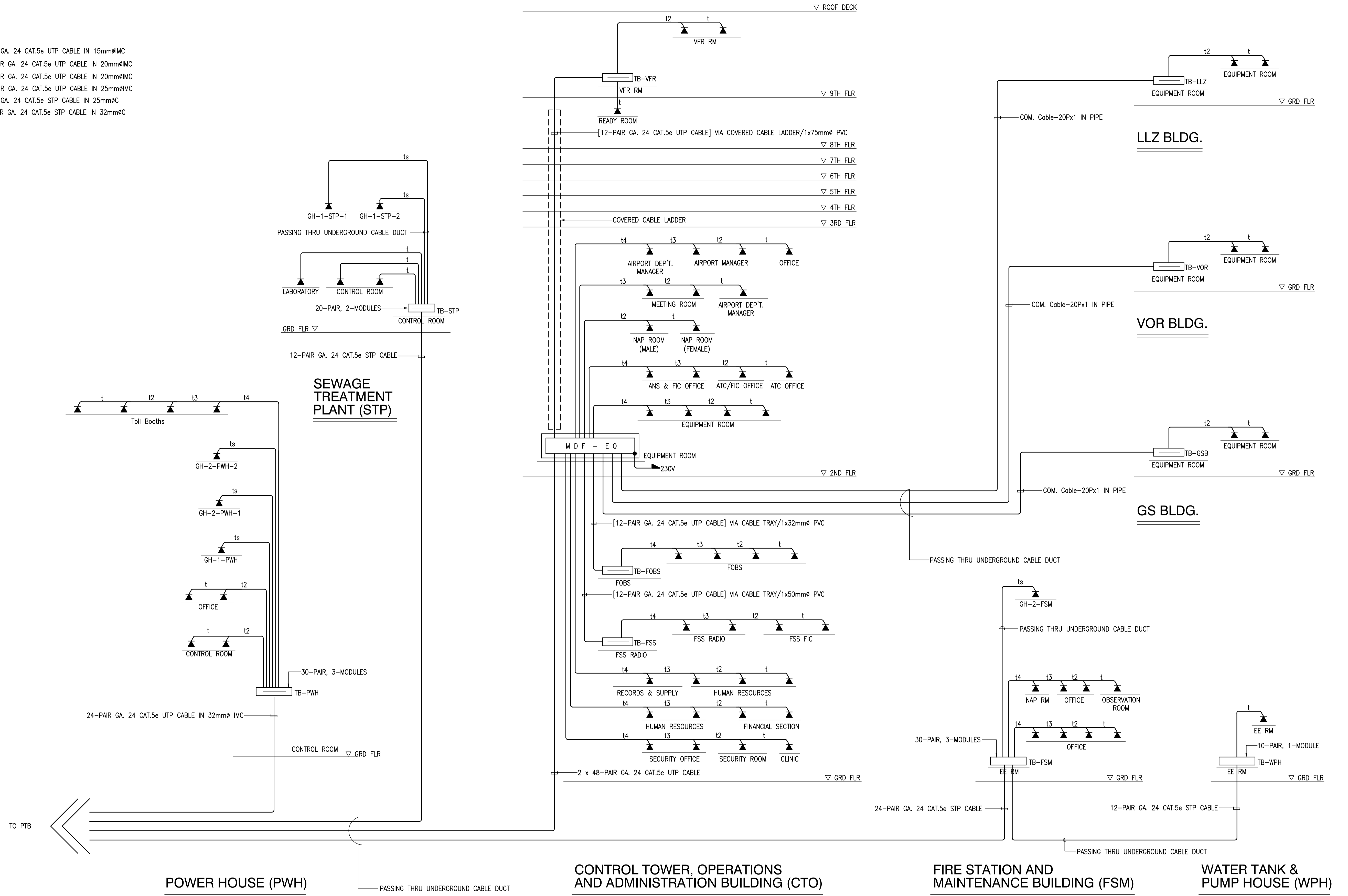
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>TIN: 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL LEGEND AND SYMBOLS2	SHEET NO: BO-6000-04
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</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:

									
SYMBOL 	CONVENTIONAL TYPE 1 x 36W FLUORESCENT FIXTURE, INDUSTRIAL TYPE, SURFACED MOUNTED	SYMBOL 	CONVENTIONAL TYPE 2 x 36W FLUORESCENT FIXTURE, INDUSTRIAL TYPE, SURFACED MOUNTED	SYMBOL 	CONVENTIONAL TYPE 2 x 36W FLUORESCENT FIXTURE, LUMINER TYPE, RECESSED MOUNTED	SYMBOL 	CONVENTIONAL TYPE 4 x 18W FLUORESCENT FIXTURE, LUMINER TYPE, RECESSED MOUNTED	SYMBOL 	CONVENTIONAL TYPE 1 x 36W FLUORESCENT FIXTURE, BATTEN TYPE, SURFACED MOUNTED
									
SYMBOL 	CONVENTIONAL TYPE 1 x 18W PLC DOWN LIGHT, RECESSED MOUNTED	SYMBOL 	CONVENTIONAL TYPE 1 x 250W HPS FLOOD LIGHT (UPLIGHT)	SYMBOL 	LED TYPE 1 x 10W EXIT LIGHT, SURFACED MOUNTED				
									
SYMBOL 	LED TYPE 1 x 24W DOWN LIGHT, RECESSED MOUNTED	SYMBOL 	LED TYPE 1 x 8W DOWN LIGHT, RECESSED MOUNTED	SYMBOL 	LED TYPE 1 x 8W DOWN LIGHT WITH MOTION SENSOR, RECESSED MOUNTED	SYMBOL 	LED TYPE 1 x 28W DOWN LIGHT, RECESSED MOUNTED	SYMBOL 	LED TYPE 1 x 31W LIGHT, LUMINER TYPE, RECESSED MOUNTED
									
SYMBOL 	LED TYPE 1 x 120W LIGHT, WALL MOUNTED	SYMBOL 	LED TYPE 1 x 50W LIGHT, WALL MOUNTED	SYMBOL 	CONVENTIONAL TYPE 1 x 28W FLUORESCENT FIXTURE, SURFACED MOUNTED	SYMBOL 	LED TYPE 1 x 120W LIGHT, POLE MOUNTED		

  JICA DESIGN CONSULTANT JOINT VENTURE	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULJANITO 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-4-0 (B0) General ELECTRICAL LIGHTING FIXTURE SCHEDULE	SHEET NO: B0-6200-01 DRAWING SCALE: AS SHOWN
	  	TADASHI AOI Team Leader			DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: WIM Validated by: HC	

WIRING SCHEDULE:

- t — 4-PAIR GA. 24 CAT.5e UTP CABLE IN 15mm ϕ IMC
- t2 — 2x4-PAIR GA. 24 CAT.5e UTP CABLE IN 20mm ϕ IMC
- t3 — 3x4-PAIR GA. 24 CAT.5e UTP CABLE IN 20mm ϕ IMC
- t4 — 4x4-PAIR GA. 24 CAT.5e UTP CABLE IN 25mm ϕ IMC
- ts — 4-PAIR GA. 24 CAT.5e STP CABLE IN 25mm ϕ C
- ts2 — 2x4-PAIR GA. 24 CAT.5e STP CABLE IN 32mm ϕ C

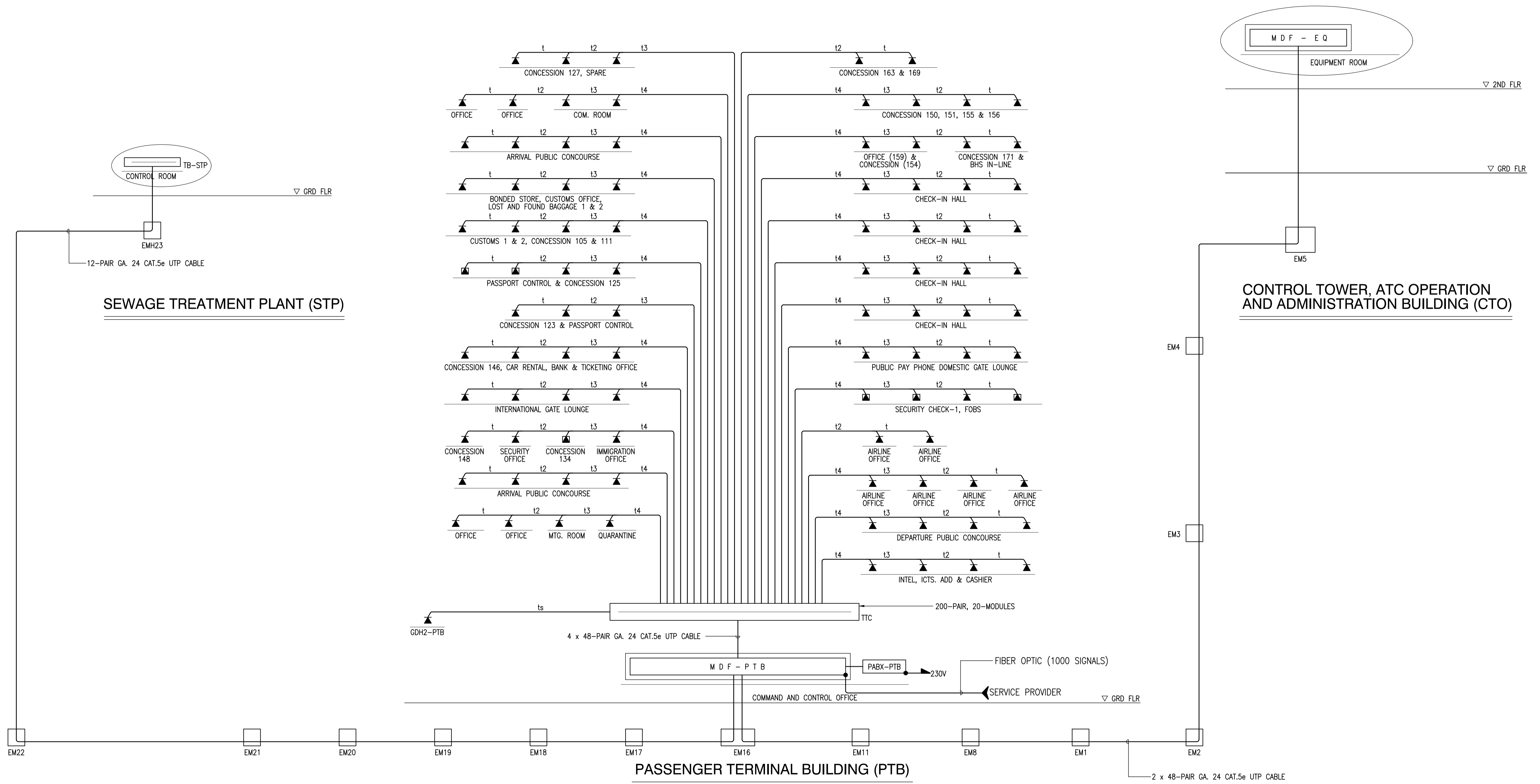


1 TELEPHONE SYSTEM SCHEMATIC DIAGRAM
 90-6300-02 NOT TO SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773 REG. NO.: 1927 DATE: 1-04-13 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-4-0 (B0) General ELECTRICAL TELEPHONE SYSTEM SCHEMATIC DIAGRAM	SHEET NO: B0-6300-01 DRAWING SCALE: AS SHOWN
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WIRING SCHEDULE:

- t — 4-PAIR GA. 24 CAT.5e UTP CABLE IN 15mm ϕ IMC
- t2 — 2x4-PAIR GA. 24 CAT.5e UTP CABLE IN 20mm ϕ IMC
- t3 — 3x4-PAIR GA. 24 CAT.5e UTP CABLE IN 20mm ϕ IMC
- t4 — 4x4-PAIR GA. 24 CAT.5e UTP CABLE IN 25mm ϕ IMC
- ts — 4-PAIR GA. 24 CAT.5e STP CABLE IN 25mm ϕ C

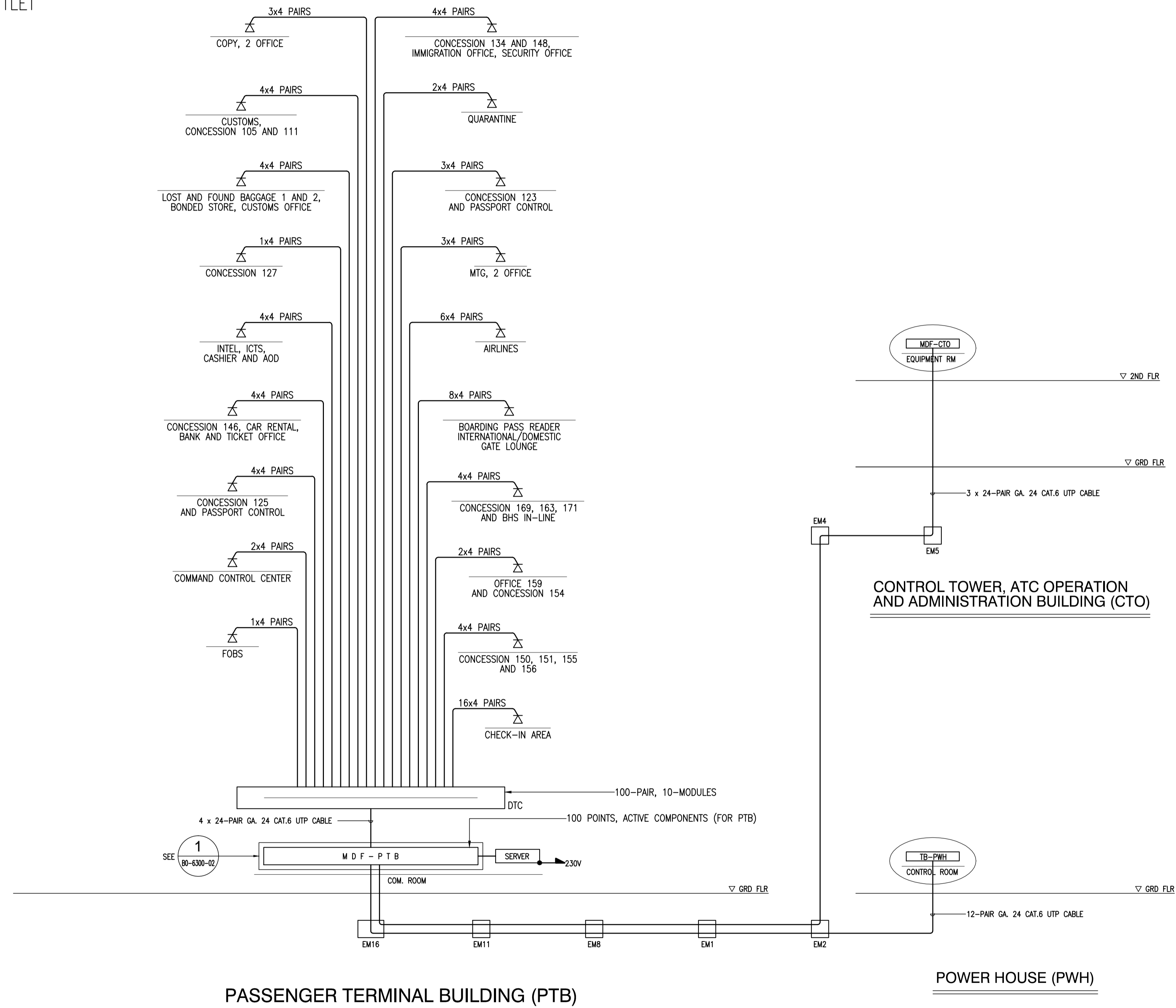


1 TELEPHONE SYSTEM SCHEMATIC DIAGRAM
 NOT TO SCALE

	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 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL TELEPHONE SYSTEM SCHEMATIC DIAGRAM2	SHEET NO: BO-6300-02 DRAWING SCALE: AS SHOWN
	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: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	

WIRING SCHEDULE:

- D — 4-PAIR GA. 24 CAT.6 UTP CABLE
- 4x or 2x — REPRESENTS NUMBER/QUANTITY OF DATA OUTLET

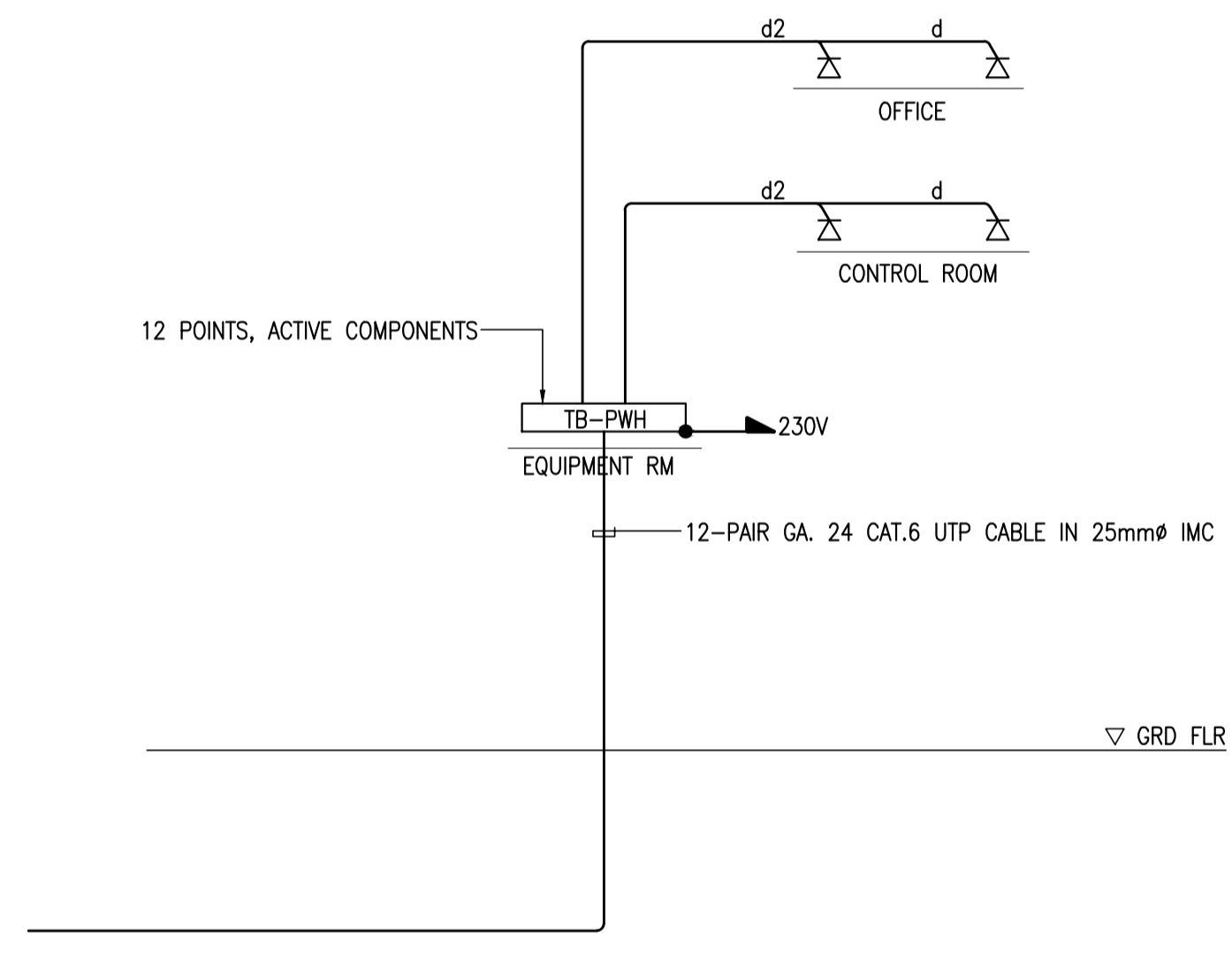


1 DATA SYSTEM SCHEMATIC DIAGRAM
 80-6300-03 NOT TO SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ELECTRICAL DATA SYSTEM SCHEMATIC DIAGRAM1	SHEET NO: B0-6300-03 DRAWING SCALE: AS SHOWN
	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: JUNE 2013 INDEX: AMENDMENTS: Prepared by: WIM Checked by: HC Validated by:	

NOTES FOR COMPUTER NETWORK:

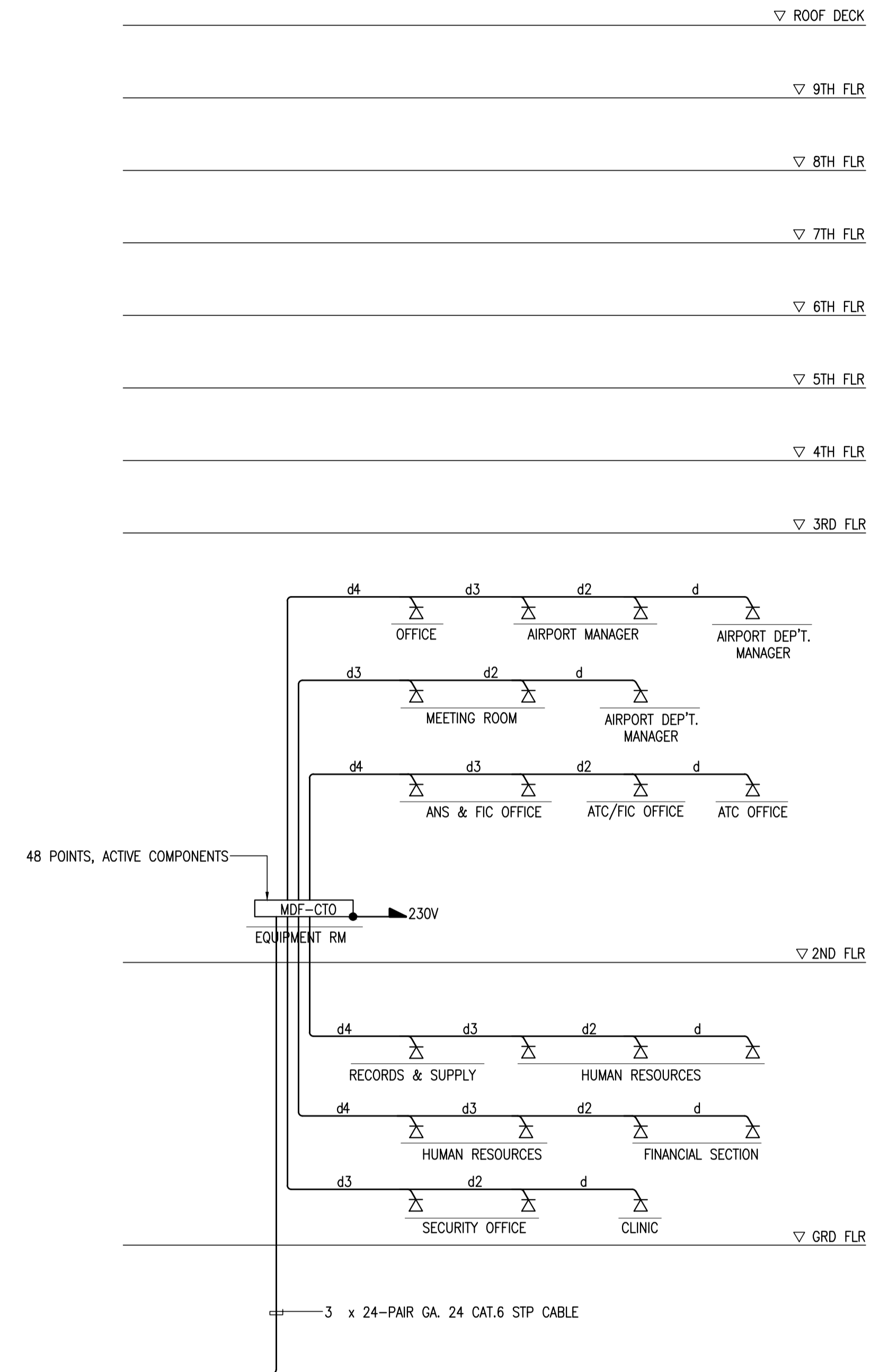
- SUPPLY, INSTALLATION AND TERMINATIONS OF CABINETS, FRAMES, PASSIVE COMPONENTS AND TERMINAL BLOCKS, PATCH PANELS (PORT BASE), PATCH CORD/CONNECTOR AND RACKS ARE INCLUDED IN CONTRACT.
- CABLES, COMPONENTS AND DEVICES SHALL BE SAME BRAND.
- SERVER TERMINAL FRAME (SERVER) SHALL BE ENCLOSED IN WALL MOUNTED DATA CABINETS INSTEAD OF OPEN BAY RACKS.
- ALL CAT.6 PATCH CORDS SHALL BE PROVIDED BY THE CONTRACTOR.



POWER HOUSE (PWH)

WIRING SCHEDULE:

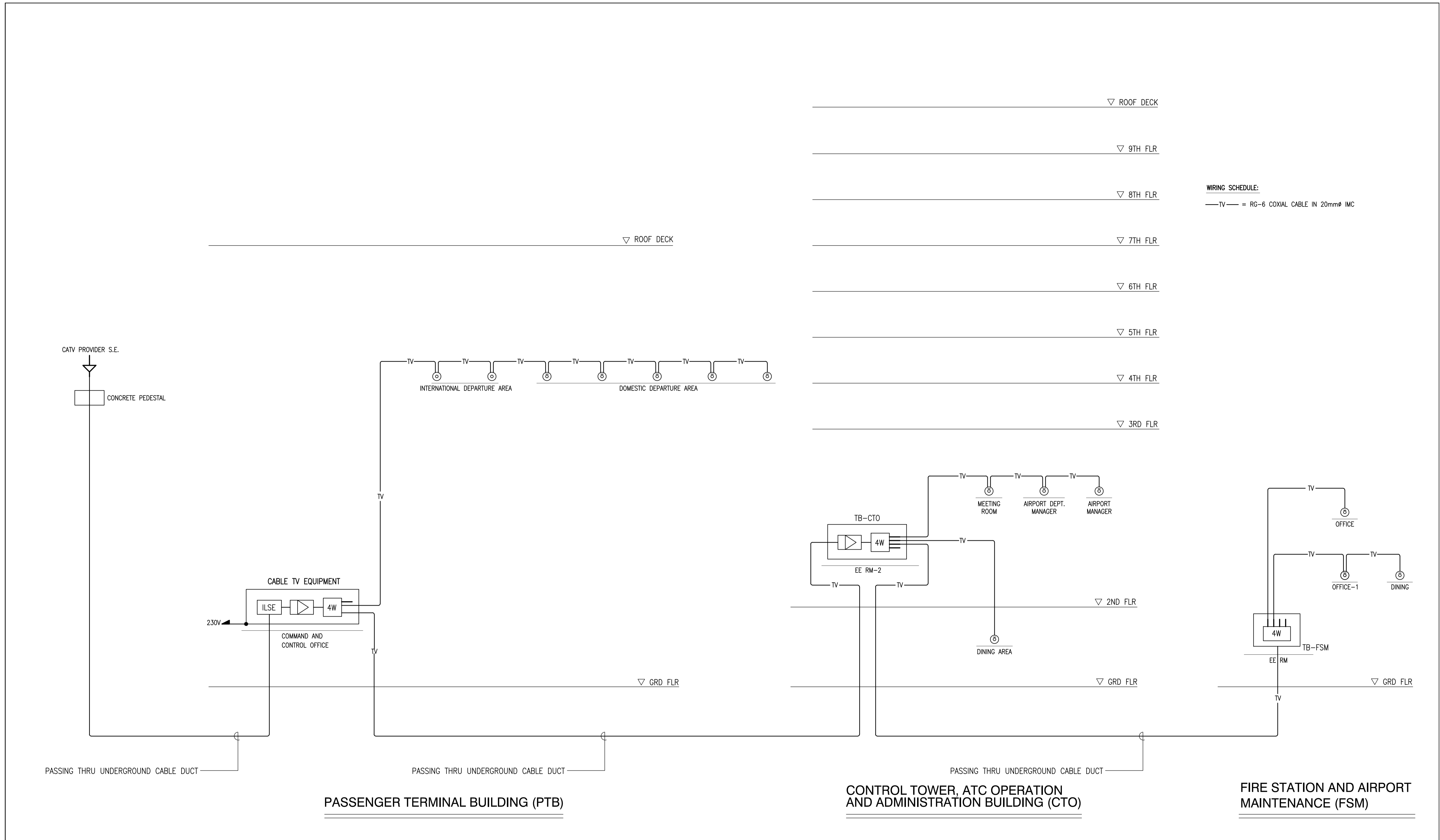
- d — 4-PAIR GA. 24 CAT.6 UTP CABLE IN 15mm ϕ MC
- d2 — 2x4-PAIR GA. 24 CAT.6 UTP CABLE IN 20mm ϕ MC
- d3 — 3x4-PAIR GA. 24 CAT.6 UTP CABLE IN 20mm ϕ MC
- d4 — 4x4-PAIR GA. 24 CAT.6 UTP CABLE IN 25mm ϕ MC



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BUILDING (CTO)

1 DATA SYSTEM SCHEMATIC DIAGRAM

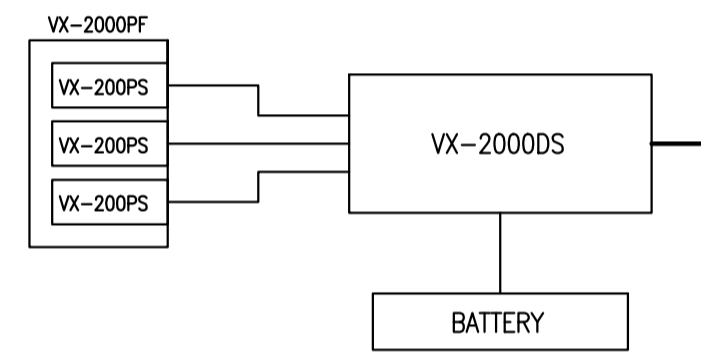
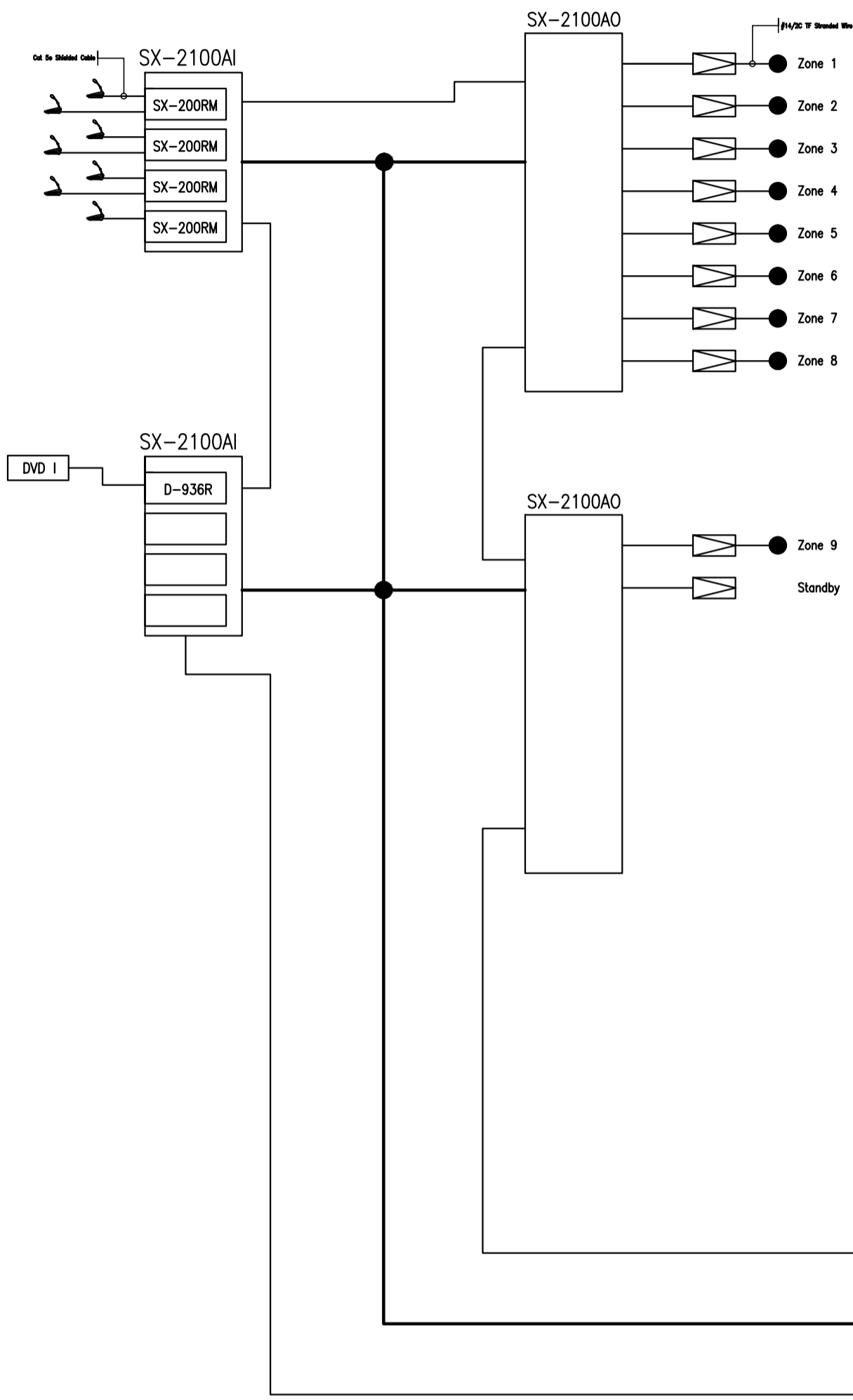
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.I.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL DATA SYSTEM SCHEMATIC DIAGRAM2	SHEET NO: BO-6300-04
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</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:



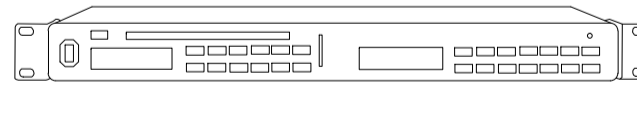
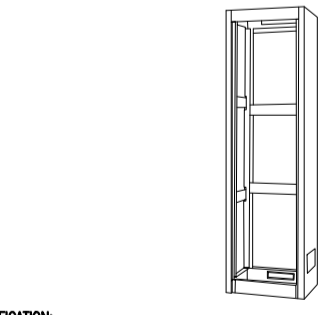
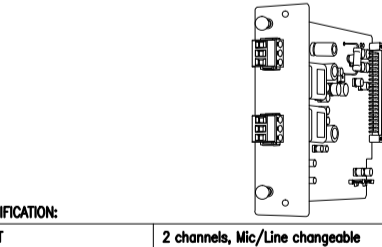
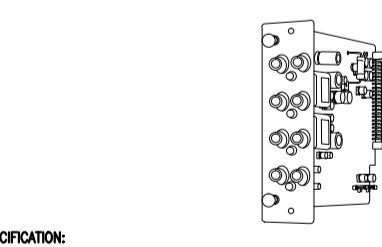
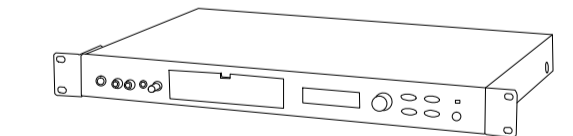
WIRING SCHEDULE:
 —TV— = RG-6 COXIAL CABLE IN 20mm ϕ IMC

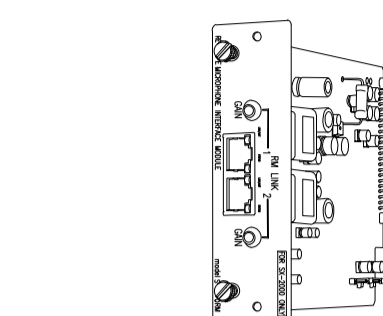
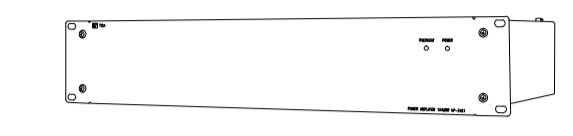
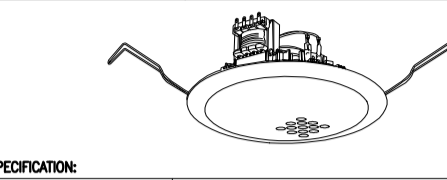
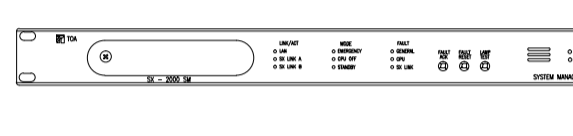

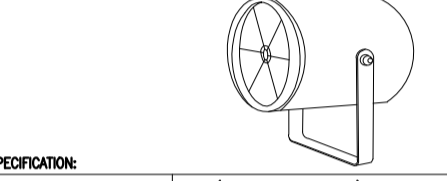
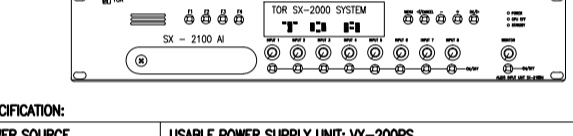
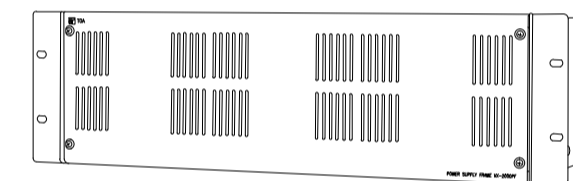
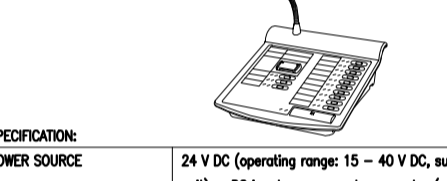
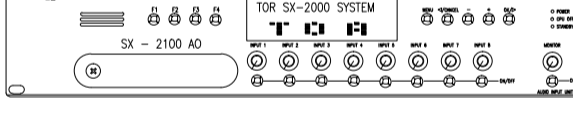
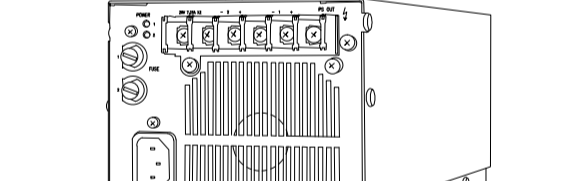
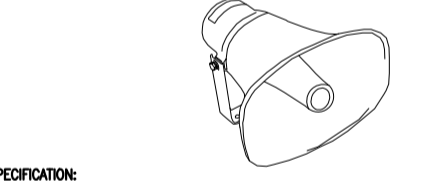
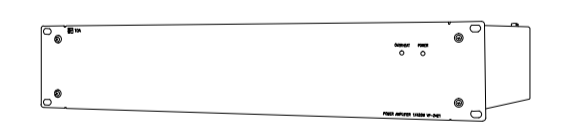
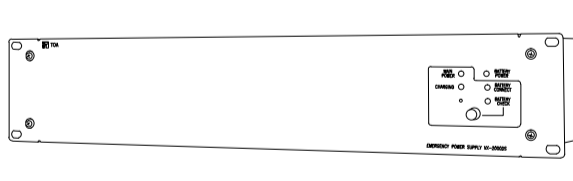
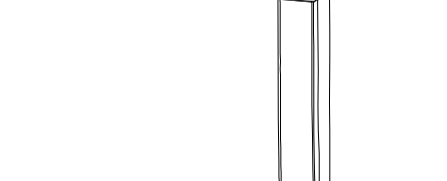
1 CABLE TV SYSTEM SCHEMATIC DIAGRAM
 80-6400-01/ NOT TO SCALE

	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 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL CABLE TV SYSTEM SCHEMATIC DIAGRAM	SHEET NO: B0-6400-01 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: WIM Checked by: HC Validated by: _____	

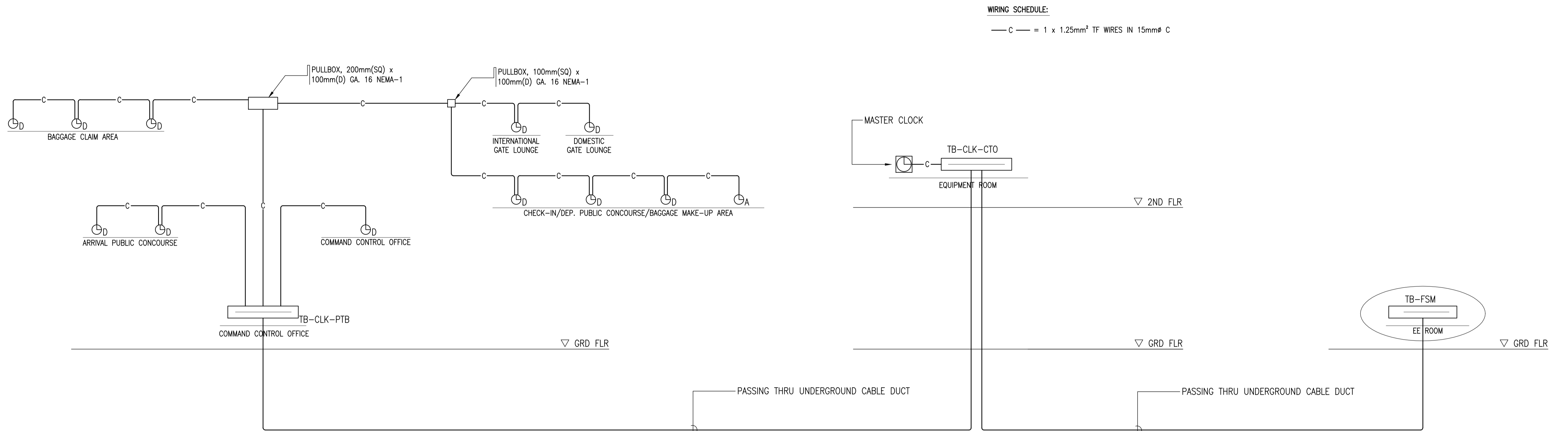


1 PUBLIC ADDRESS BLOCK DIAGRAM
NOT TO SCALE

<p>CD-2011R</p>  <p>SPECIFICATION: POWER SOURCE: 220-240V AC, 50/60 Hz POWER CONSUMPTION: 15 W CD FREQUENCY RESPONSE: 20 - 20,000 Hz, ± 3 dB TUNER RECEIVING FREQUENCY: 87.5 - 108 MHz (50 MHz step) FINISH: Front Panel: Steel Plate, black color Case: Steel Plate, black color DIMENSIONS: 482 (W) x 44 (H) x 200 (D) mm WEIGHT: 3.8kg (without accessories)</p>	<p>CR-413-6</p>  <p>SPECIFICATION: FINISH: Chassis section: Surface treated steel plate Top plate/Frame: 2 mm thick Base: Steel plate (2 mm thick), powder coating, black Design section: Pre-coated steel plate (1 mm thick), lorry, semi-gloss DIMENSIONS: 566 (W) x 2000 (H) x 615 (D) mm WEIGHT: 78 kg ACCESSORY: Screw cover ...3, Screw cover rail ...8, Cable clip ...20, Fishy screw ...1set OPTION: Blower unit: BA-412, Rack runner: YA-706</p>	<p>D-921E</p>  <p>SPECIFICATION: INPUT: 2 channels, Mic/Line changeable Mic: -50/-36 dB, 4.7 kΩ, electronically-balanced, removable terminated block (3 pins) Line: -10/4 dB, 10 kΩ, electronically-balanced, removable terminated block (3 pins) Phantom power supply (can be used when set for the microphone) 15 V (D-901 (option), DP-K1 (option), D-2008SP (option)) Ground lift switch A/D CONVERTER: 24 bit FREQUENCY RESPONSE: 20 Hz - 20 kHz, ±1 dB (4 dB input) FINISH: Panel: Pre-coated steel plate, black, 30 X gloss DIMENSIONS: 35 (W) x 119.5 (H) x 178.4 (D) mm WEIGHT: 140 g</p>	<p>D-921R</p>  <p>SPECIFICATION: INPUT: 1) When the module is attached to the D-901 (option) or D-2008SP (option) or DP-K1 (option): stereo x 4 inputs (Selection of 1 stereo or mixing of all 4-line inputs) -10 dB, 10 kΩ, RCA pin jack 2) When the module is attached to the SX-2100A (option): monaural x 2, -10 dB, 10 kΩ, RCA pin jack A/D CONVERTER: 24 bit SAMPLING FREQUENCY: 48 kHz FREQUENCY RESPONSE: 20 Hz - 20 kHz, ±1 dB (4 dB input) FINISH: Panel: Pre-coated steel plate, black, 30 X gloss FREQUENCY RESPONSE: 20 Hz - 20 kHz, ±1 dB (4 dB input) DIMENSIONS: 35 (W) x 119.5 (H) x 178.4 (D) mm WEIGHT: 140 g</p>	<p>EV-350 R</p>  <p>SPECIFICATION: Power Source: 220 - 240 V AC, 50/60 Hz 0.1 A or 24 V DC 0.4 A Power Consumption: 12 W Input: Microphone: -55 dB, 600 Ω, unbalanced, phone jack AUX: -20 dB, 10 kΩ, unbalanced, phone jack/RCA pin jack Finish: Panel: Aluminum, black, 30 X gloss, paint Case: Surface treated steel plate, black, 30 X gloss Dimensions: 482 (W) x 44 (H) x 315 (D) mm (18.58" x 1.73" x 12.4") Weight: 4 kg (8.82 lb)</p>
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<p>SX-200RM</p>  <p>SPECIFICATION: AUDIO INPUT: 2 INPUTS, 0 dBμV, 8-pin CONNECTOR AUDIO INPUT CHARACTERISTIC: SAMPLING FREQUENCY: 48 kHz A/D CONVERTER: 24 bits POWER FEED: MAX. 1A PER CONNECTOR LEVEL CONTROL: AUDIO INPUT (0 to +12 dB) FINISH: PANEL: PRE-COATED STEEL PLATE, BLACK, 30X GLOSS DIMENSIONS: 35 (W) x 119.5 (H) x 178.4 (D) mm WEIGHT: 190 g</p>	<p>VP-2241</p>  <p>SPECIFICATION: POWER SOURCE: 28 V DC (OPERATING RANGE: 20 - 40 V DC) M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 12 mm CURRENT CONSUMPTION: 4.8 A (EN60065) RATED OUTPUT POWER: 240 W (AT MIN. RESISTIVE AND MAX. CAPACITIVE LOAD) OUTPUT VOLTAGE: 100 V (70 V, 50 V SELECTABLE BY INTERNAL WIRING CHANGE) FREQUENCY RESPONSE: 15 - 18,000 Hz (peak-to-peak) MINIMUM RESISTIVE LOAD: 41 Ω (at 100 V), 21 Ω (at 70 V), 11 Ω (at 50 V) MAXIMUM CAPACITIVE LOAD: 0.5 μF (at 100 V), 1 μF (at 70 V), 1 μF (at 50 V) INPUT: SPECIFIED BY INPUT MODULE VP-2000K FREQUENCY RESPONSE: 40 Hz - 18 kHz, ±3 dB (at 1/3 RATED OUTPUT) S/N RATIO: 80 dB OR MORE OPERATING TEMPERATURE: 0 °C to +40 °C FINISH: PANEL: SURFACE-TREATED STEEL PLATE, BLACK, 30 X GLOSS, PAINT DIMENSIONS: 482 (W) x 88.4 (H) x 346.5 (D) mm WEIGHT: 8.1 kg ACCESSORY: RACK MOUNTING SCREW...4, FIBER WASHER...4</p>	<p>PC-658R</p>  <p>SPECIFICATION: RATED INPUT: 8 W (100 V line), 3 W (70 V line) RATED IMPEDANCE: 100 V line: 1.7 kΩ (3 W), 3.3 kΩ (3 W), 10 kΩ (1 W) 70 V line: 1.7 kΩ (3 W), 3.3 kΩ (1.5 W), 10 kΩ (0.5 W) SENSITIVITY: 80 dB (1 W, 1 m, 1000 - 5000 Hz, pink noise) FREQUENCY RESPONSE: 65 - 18,000 Hz (peak-to-peak) SPEAKER COMPONENT: 18 cm (6") cone-type DIMENSIONS FOR FIXING HOLE: Mounting hole: φ170±0.15 (4.689±0.037) Cutting thickness: 5 - 25 mm (0.2" - 0.98") SPEAKER MOUNTING METHOD: Spring clamp FINISH: Buffer: Polypropylene resin, off-white (RAL 9010 or equivalent color) Grille: Surface-treated steel plate, off-white (RAL 9010 or equivalent color), paint DIMENSIONS: φ182 x 153 (D) mm (φ7.16" x 6.02") WEIGHT: 500 g (1.1 lb) ACCESSORY: Paper pattern ...1</p>
<p>SX-2000SM</p>  <p>SPECIFICATION: POWER SOURCE: USABLE POWER SUPPLY UNIT: VX-200PS 24 V DC (OPERATIONAL RANGE: 20 V - 40 V DC) TWO POWER INPUTS CONSTRUCTION ENABLES DUAL-REUNDANT POWER SUPPLY. CURRENT CONSUMPTION: 1.1 A OR LESS (MAXIMUM VALUE IN THE POWER OPERATING RANGE) INDICATION/OPERATION: SX LINK ACCESS INDICATOR: 2 LAN ACCESS INDICATOR: 1 MODE INDICATOR: 3 (EMERGENCY/STANDBY/ CPU OFF) FAILURE INDICATOR: 3 (OVERHEAT/CPU/SX LINK) POWER INDICATOR: 1 (POWER) FINISH: PANEL: PRE-COATED STEEL PLATE, BLACK, 30X GLOSS DIMENSIONS: 35 (W) x 119.5 (H) x 178.4 (D) mm WEIGHT: 190 g</p>	<p>VP-2421</p>  <p>SPECIFICATION: POWER SOURCE: 28 V DC (OPERATING RANGE: 20 - 40 V DC) M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 12 mm CURRENT CONSUMPTION: 7.8 A (EN60065) RATED OUTPUT POWER: 420 W (at min. resistive and max. capacitive load) OUTPUT VOLTAGE: 100 V (70 V, 50 V SELECTABLE BY INTERNAL WIRING CHANGE) MINIMUM RESISTIVE LOAD: 24 Ω (at 100 V), 12 Ω (at 70 V), 6 Ω (at 50 V) MAXIMUM CAPACITIVE LOAD: 0.5 μF (at 100 V), 1 μF (at 70 V), 1 μF (at 50 V) INPUT: SPECIFIED BY INPUT MODULE VP-2000K FREQUENCY RESPONSE: 40 Hz - 18 kHz, ±3 dB (at 1/3 RATED OUTPUT) OPERATING TEMPERATURE: 0 °C to +40 °C FINISH: PANEL: SURFACE-TREATED STEEL PLATE, BLACK, 30 X GLOSS, PAINT DIMENSIONS: 482 (W) x 88.4 (H) x 346.5 (D) mm WEIGHT: 8.1 kg ACCESSORY: RACK MOUNTING SCREW...4, FIBER WASHER...4</p>	<p>PJ-200W</p>  <p>SPECIFICATION: RATED INPUT: 30 W (100 V line), 100 V line RATED IMPEDANCE: 100 V Line: 500 Ω (20 W), 1 Ω (10 W), 2 Ω (2.5 W) 70 V Line: 250 Ω (20 W), 500 Ω (10 W), 500 Ω (5 W), 1 kΩ (2.5 W) 2 Ω (1.25 W) PREDIST IMPEDANCE: 500 Ω SOUND PRESSURE LEVEL: 95 dB (1 m, 1 W) at 1 kHz FREQUENCY RESPONSE: 50 Hz - 20 kHz FINISH: Cabinet, Cover: ABS resin, off-white Bracket: SPCC, off-white DIMENSIONS: 200 (W) x 255 (H) x 250 (D) mm (7.87" x 10.04" x 9.84") WEIGHT: 2.5 kg (5.51 lb) NOTE: BEFORE INSTALLING THE SPEAKER IN LOCATIONS WHICH VIBRATE CONSIDERABLY OR UNDER ENVIRONMENTAL DUST TO BE OIL-CONTAMINATED.</p>
<p>SX-2100AI</p>  <p>SPECIFICATION: POWER SOURCE: USABLE POWER SUPPLY UNIT: VX-200PS 24 V DC (OPERATIONAL RANGE: 20 V - 40 V DC) TWO POWER INPUTS CONSTRUCTION ENABLES DUAL-REUNDANT POWER SUPPLY. CURRENT CONSUMPTION: 2.0 V OR LESS (MAXIMUM VALUE IN THE POWER OPERATING RANGE) NOTE: BUT EXCEPT CURRENT CONSUMPTION OF THE EXTERNAL EQUIPMENT OF WHICH POWER IS SUPPLIED FROM THE LINE. INDICATION: 18 ALPHANUMERIC CHARACTERS, LEVEL INDICATOR (8 INPUTS, MONITOR), STATUS INDICATORS, POWER INDICATOR, STANDBY INDICATOR, CPU OFF INDICATOR OPERATION: FUNCTION BUTTON, INPUT LEVEL CONTROL, MONITOR SPEAKER VOLUME CONTROL, ON/OFF SWITCH, OPERATION BUTTON AUDIO INPUT: 8 INPUTS, MODUL CONSTRUCTION (MAX. 4 MODULES, MODULES OPTIONAL) MONITORING POSSIBLE USING BUILT-IN SPEAKER. AUDIO INPUT CHARACTERISTIC: SAMPLING FREQUENCY: 48 kHz</p>	<p>VX-2000PF</p>  <p>SPECIFICATION: POWER SOURCE: 28 V DC (OPERATING RANGE: 20 - 40 V DC) M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 12 mm CURRENT CONSUMPTION: 7.8 A (EN60065) RATED OUTPUT POWER: 420 W (at min. resistive and max. capacitive load) OUTPUT VOLTAGE: 100 V (70 V, 50 V SELECTABLE BY INTERNAL WIRING CHANGE) MINIMUM RESISTIVE LOAD: 24 Ω (at 100 V), 12 Ω (at 70 V), 6 Ω (at 50 V) MAXIMUM CAPACITIVE LOAD: 0.5 μF (at 100 V), 1 μF (at 70 V), 1 μF (at 50 V) INPUT: SPECIFIED BY INPUT MODULE VP-2000K FREQUENCY RESPONSE: 40 Hz - 18 kHz, ±3 dB (at 1/3 RATED OUTPUT) OPERATING TEMPERATURE: 0 °C to +40 °C FINISH: PANEL: SURFACE-TREATED STEEL PLATE, BLACK, 30 X GLOSS, PAINT DIMENSIONS: 482 (W) x 88.4 (H) x 346.5 (D) mm WEIGHT: 8.1 kg ACCESSORY: RACK MOUNTING SCREW...4, FIBER WASHER...4</p>	<p>RM-200SA</p>  <p>SPECIFICATION: POWER SOURCE: 24 V DC (operating range: 15 - 40 V DC, supplied from the audio input unit) or DC input power supply connector (when the optional AD-246 power supply unit is used) Usable DC power supply plug: 5.5 mm (0.217") outer diameter, 2.1 mm (0.083") inner diameter, 9.5 mm (0.375") long, and non-polarity type. CURRENT CONSUMPTION: 240 mA or less AUDIO OUTPUT: 0 dBμV/100 Hz, balanced EXTERNAL MICROPHONE INPUT: -40 dBμV, 2.2 kΩ, unbalanced, mini jack, for electret condenser microphone (phantom power supply: 3 V DC) FREQUENCY RESPONSE: 100 Hz - 20 kHz MAXIMUM CABLE DISTANCE: 800 m (2624.6 ft) FINISH: ABS resin, blackish gray DIMENSIONS: 180 (W) x 78.5 (H) x 215 (D) mm (7.08" x 3.11" x 8.48" (excluding microphone)) WEIGHT: 800 g (1.76 lb)</p>
<p>SX-2100AO</p>  <p>SPECIFICATION: POWER SOURCE: USABLE POWER SUPPLY UNIT: VX-200PS 24 V DC (OPERATIONAL RANGE: 20 V - 40 V DC) TWO POWER INPUTS CONSTRUCTION ENABLES DUAL-REUNDANT POWER SUPPLY. CURRENT CONSUMPTION: 1.7 A OR LESS (MAXIMUM VALUE IN THE POWER OPERATING RANGE) 1.2 A OR LESS (WHEN OPERATED ON 24 V DC) NOTE: BUT EXCEPT CURRENT CONSUMPTION OF THE EXTERNAL EQUIPMENT OF WHICH POWER IS SUPPLIED FROM THE LINE. INDICATION: 18 ALPHANUMERIC CHARACTERS, LEVEL INDICATOR (8 INPUTS, MONITOR), STATUS INDICATORS, POWER INDICATOR, STANDBY INDICATOR, CPU OFF INDICATOR OPERATION: FUNCTION BUTTON, INPUT LEVEL CONTROL, MONITOR SPEAKER VOLUME CONTROL, ON/OFF SWITCH, OPERATION BUTTON</p>	<p>VX-200PS</p>  <p>SPECIFICATION: POWER SOURCE: 220 V AC, 50/60 Hz POWER CONSUMPTION: 580 W PS OUT: RATED OUTPUT: 210 W (29 V, 7.25 A) x 2 PSM OUTPUT: 400 W x 2 M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 11 mm OPERATING TEMPERATURE: 0 °C to +40 °C APPLICABLE FRAME: VX-2000PF FINISH: PANEL: SURFACE-TREATED STEEL PLATE CHANGING METHOD: 5.4 mm DIMENSIONS: 125 (W) x 182.6 (H) x 333.8 (D) mm WEIGHT: 13.2 kg ACCESSORY: FUSE (T3.15 A) ...1, POWER CABLE ...1</p>	<p>SC-630 M</p>  <p>SPECIFICATION: RATED INPUT: 30 W LINE VOLTAGE: 100 V line or 70 V line RATED IMPEDANCE: 100 V line: 330 Ω (20 W), 670 Ω (10 W), 1 kΩ (10 W), 2 kΩ (5 W) 70 V line: 170 Ω (20 W), 330 Ω (10 W), 670 Ω (5 W), 1 kΩ (2.5 W) OPERATING TEMPERATURE: -20 °C to +55 °C (must be free from dew condensation) SPEAKER MOUNTING METHOD: Spring clamp FINISH: Horn: Flame Aluminum, off-white, powder coating Reflector horn and rear cover: ABS resin, off-white Bracket, screws and bolts: Stainless steel Speaker grille: Polypropylene chloride resin-coated coilless grille (6 mm in diameter, 800 mm in length) DIMENSIONS: 285 (W) x 227 (H) x 277 (D) mm WEIGHT: 2 kg</p>
<p>VP-2122</p>  <p>SPECIFICATION: POWER SOURCE: 28 V DC (OPERATING RANGE: 20 - 40 V DC) M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 12 mm CURRENT CONSUMPTION: 4.8 A IN TOTAL (EN60065) RATED OUTPUT POWER: 120 W x 2 (AT MIN. RESISTIVE AND MAX. CAPACITIVE LOAD) OUTPUT VOLTAGE: 100 V (70 V, 50 V SELECTABLE BY INTERNAL WIRING CHANGE) FREQUENCY RESPONSE: 15 - 18,000 Hz (peak-to-peak) MINIMUM RESISTIVE LOAD: 41 Ω (at 100 V), 21 Ω (at 70 V), 11 Ω (at 50 V) MAXIMUM CAPACITIVE LOAD: 0.5 μF (at 100 V), 1 μF (at 70 V), 1 μF (at 50 V) INPUT: SPECIFIED BY INPUT MODULE VP-2000K FREQUENCY RESPONSE: 40 Hz - 18 kHz, ±3 dB (at 1/3 RATED OUTPUT) OPERATING TEMPERATURE: 0 °C to +40 °C FINISH: PANEL: SURFACE-TREATED STEEL PLATE, BLACK, 30 X GLOSS, PAINT DIMENSIONS: 482 (W) x 88.4 (H) x 346.5 (D) mm WEIGHT: 8.1 kg ACCESSORY: RACK MOUNTING SCREW...4, FIBER WASHER...4</p>	<p>VX-2000DS</p>  <p>SPECIFICATION: POWER SOURCE: 220 V AC, 50/60 Hz POWER CONSUMPTION: 240 W MAX. APPLICABLE BATTERY: Panasonic LC-1128SPS/APS (65 Ah) CHARGING METHOD: 5.4 mm CHARGING CURRENT: M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 11 mm CHARGING OUTPUT VOLTAGE: 27.3 V 60.3 V (at 25 °C (77 °F)) POWER SUPPLY INPUT: 6 M4 SCREW TERMINAL, DISTANCE BETWEEN BARRIERS: 11 mm (0.437") DC POWER OUTPUT: 6 (25 A max. each) mt screw terminal, distance between barriers: 11 mm (0.437") OPERATING TEMPERATURE: 0 °C to +40 °C (32 °F to 104 °F) FINISH: PANEL: SURFACE-TREATED STEEL PLATE, BLACK, 30 X GLOSS, PAINT DIMENSIONS: 482 (W) x 88.4 (H) x 377.6 (D) mm (18.98" x 3.48" x 14.87") WEIGHT: 10.5 kg (23.15 lb)</p>	<p>SR H2S</p>  <p>SPECIFICATION: ENCLOSURE: Base-reflex type POWER HANDLING CAPACITY: Continuous program: 180 W RATED IMPEDANCE: 8 Ω SENSITIVITY: 98 dB (1 m in equivalent, measured at 4 m) FREQUENCY RESPONSE: Horizontal: 90°, Vertical: 20° FINISH: Enclosure: MFG white, urethane paint Front grille: Punched steel plate, white, acrylic paint DIMENSIONS: 84 (W) x 88.4 (H) x 115 (D) mm (3.31" x 3.48" x 4.53") WEIGHT: 4.2 kg (9.26 lb)</p>

<p>Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS</p> <p>JICA JAPAN INTERNATIONAL COOPERATION AGENCY</p> <p>JICA DESIGN CONSULTANT JOINT VENTURE</p> <p>JAC JAPAN AIRPORT CONSULTANTS, INC.</p> <p>NIPPON KOEI CO., LTD.</p> <p>NIS CONSULTANTS CO., LTD.</p>	<p>PREPARED BY: TEODORO N. PAMATMAT PROF. ELECTRICAL ENGINEER P.T.R. 1403773 REG. NO.: 1927 DATE: 1-04-13 PLAN: 119-747-900 PLACE: MANILA</p> <p>TADASHI AOI Team Leader</p>	<p>RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. Assistant Secretary for Project Implementation, DOTC</p>	<p>APPROVED: JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC</p>	<p>PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT</p> <p>LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES</p>	<p>JUNE 2013</p> <p>DATE INDEX AMENDMENTS</p> <p>Prepared by: WIM Checked by: HC Validated by:</p>	<p>SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL</p> <p>SHEET NO.: B0-6500-01</p> <p>DRAWING SCALE: AS SHOWN</p>
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PASSENGER TERMINAL BUILDING (PTB)

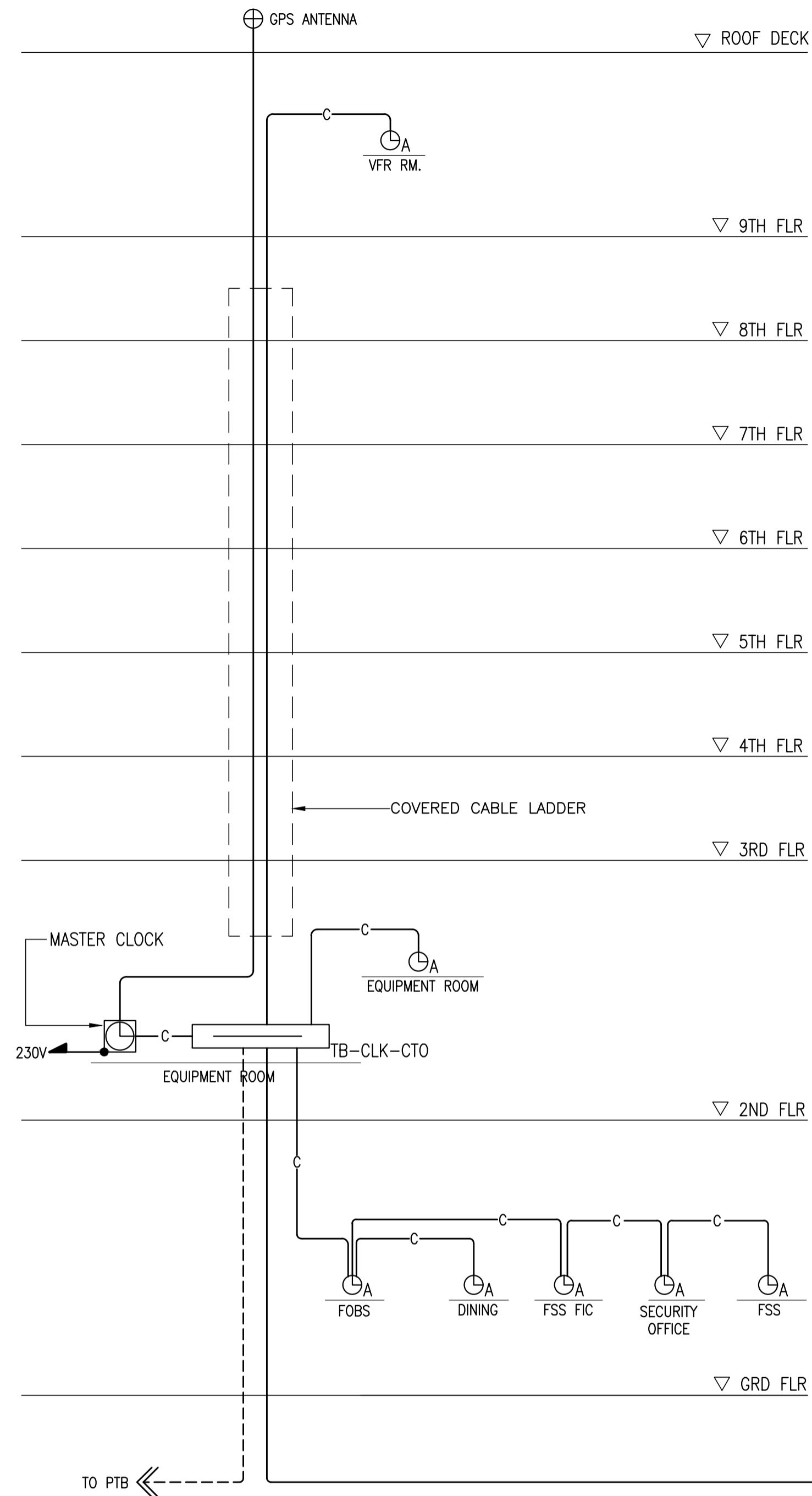
CONTROL TOWER, ATC OPERATION AND ADMINISTRATION BUILDING (CTO)

FIRE STATION AND AIRPORT MAINTENANCE BUILDING (FSM)

- LEGEND:**
- Ⓛ - SLAVE DIGITAL CLOCK
 - Ⓜ - MASTER CLOCK
 - Ⓜ - SLAVE ANALOG CLOCK

1 SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM
 B0-6600-01 NOT TO SCALE

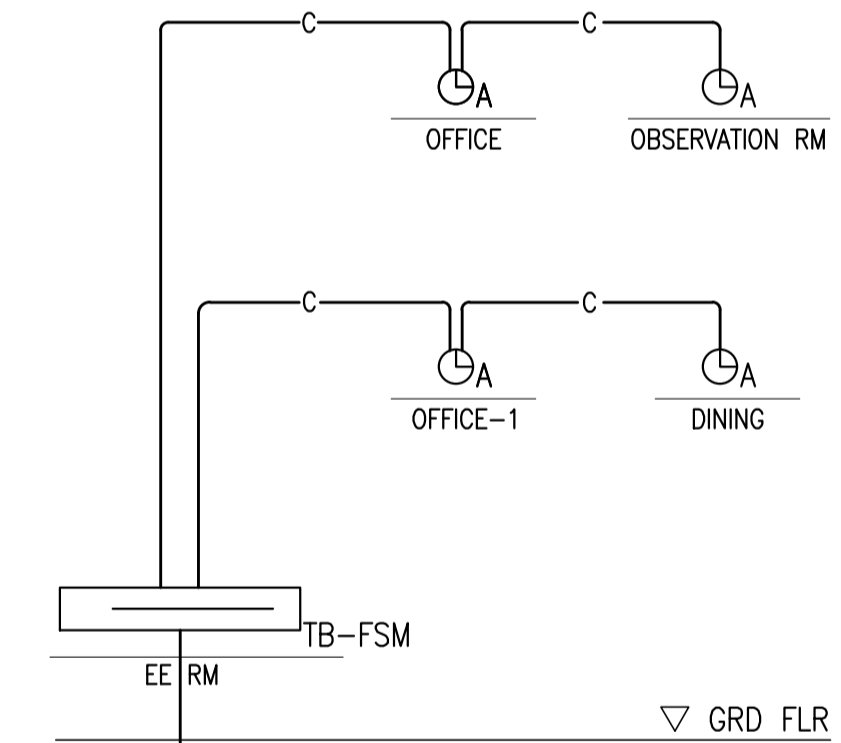
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>TJAN. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: 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-4-0 (B0) General ELECTRICAL SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM	SHEET NO: B0-6600-01
	JICA DESIGN CONSULTANT JOINT VENTURE	TADASHI AOI <small>Team Leader</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:



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BUILDING (CTO)

WIRING SCHEDULE:

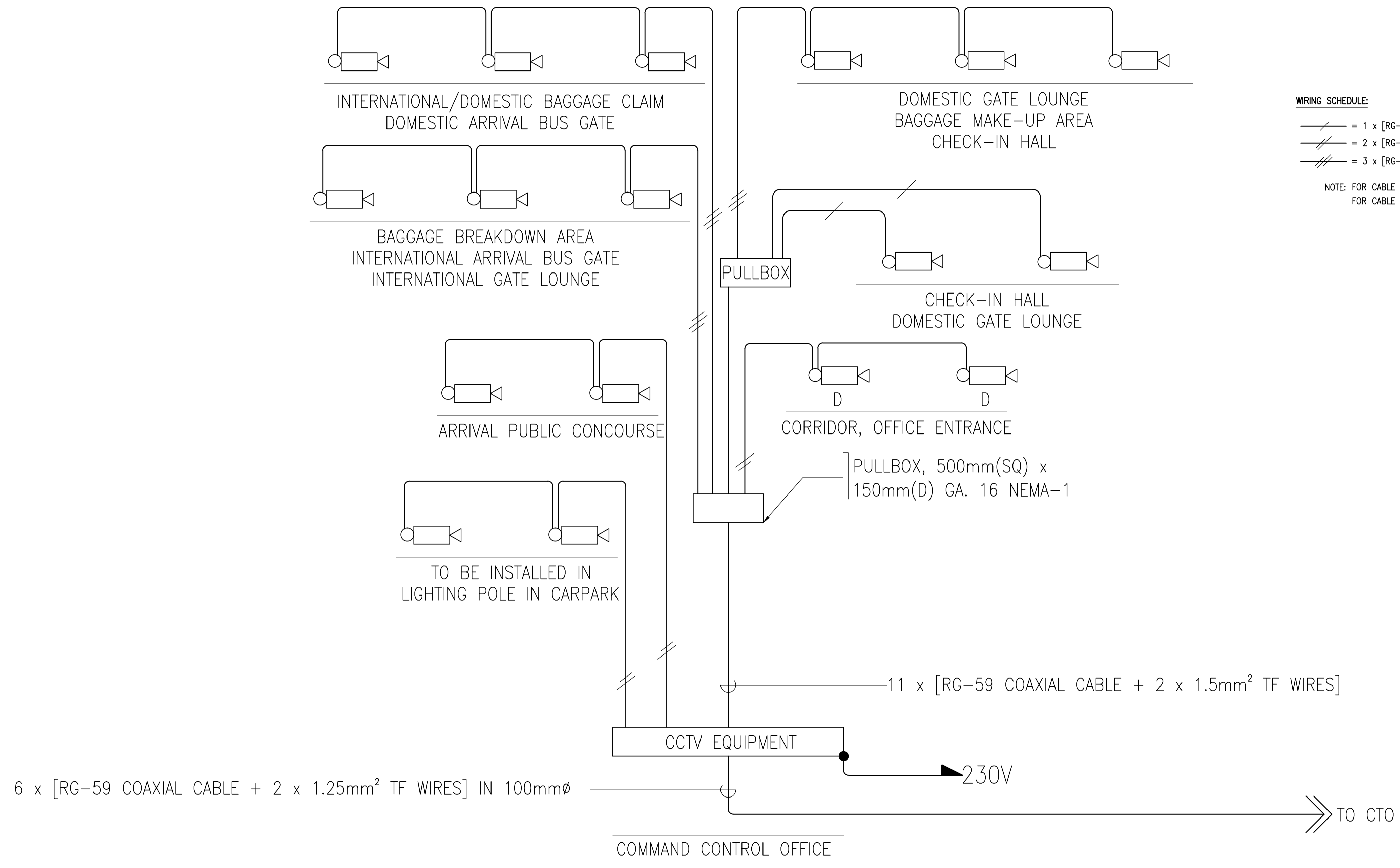
— C — = 1 x 1.25mm² TF WIRES IN 15mm \varnothing C



FIRE STATION AND MAINTENANCE BUILDING (FSM)

1 SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM
 80-6600-01/ NOT TO SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ELECTRICAL SYNCHRONIZING CLOCK SYSTEM SCHEMATIC DIAGRAM	SHEET NO: BO-6600-02
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI <small>Team Leader</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:	DRAWING SCALE: AS SHOWN



WIRING SCHEDULE:

— = 1 x [RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES] IN 20mmØ IMC

— = 2 x [RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES] IN 25mmØ IMC

— = 3 x [RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES] IN 32mmØ IMC

NOTE: FOR CABLE RUNS UP TO 125m USE RG-59
FOR CABLE RUNS OVER 125m USE RV-4351

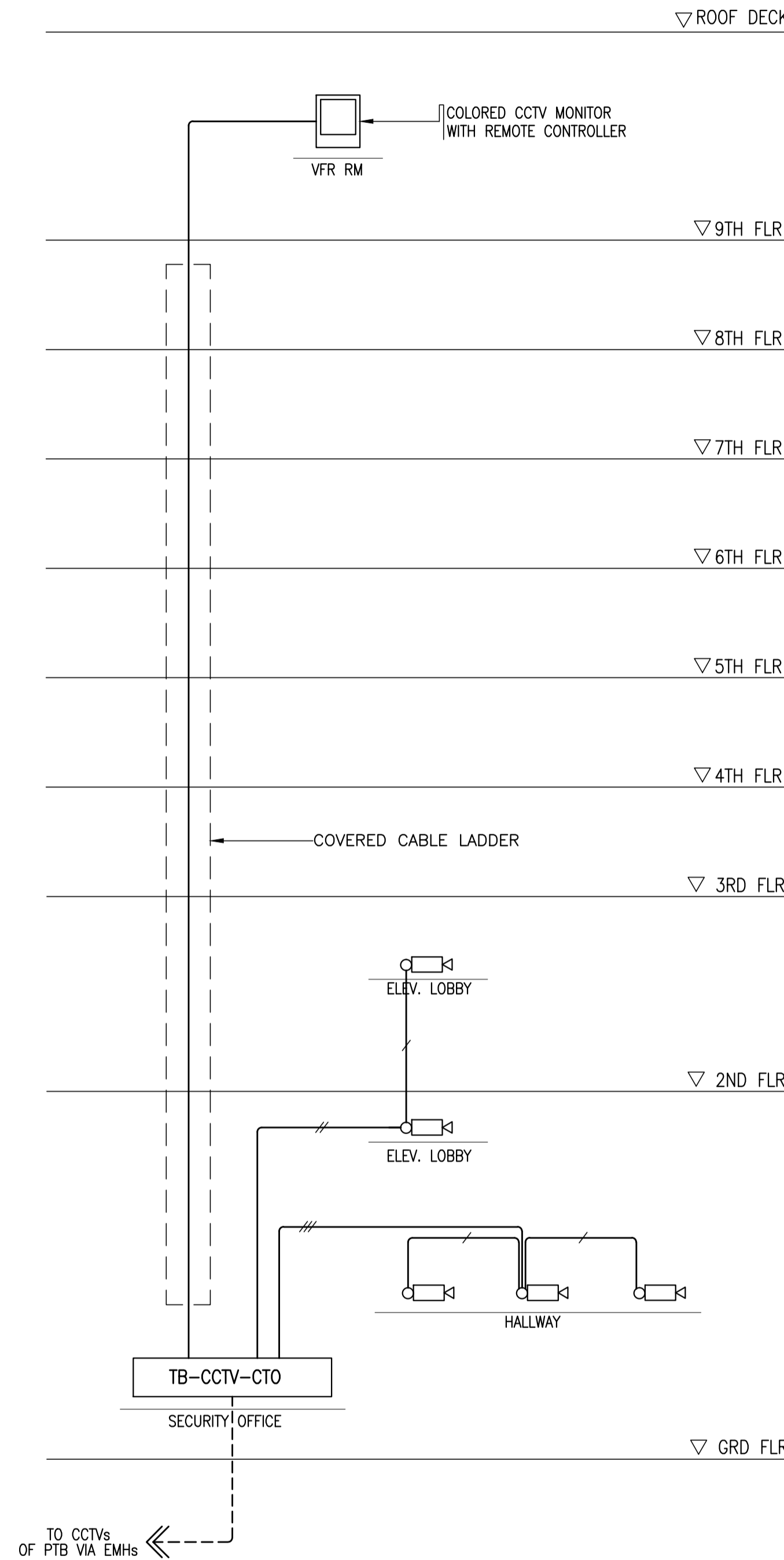
1 PASSENGER TERMINAL BUILDING (PTB) - CCTV SYSTEM SCHEMATIC DIAGRAM
NOT TO SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ELECTRICAL CCTV SYSTEM SCHEMATIC DIAGRAM1	SHEET NO: B0-6700-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPOON 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:	

WIRING SCHEDULE:

- = RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES IN 20mm ϕ IMC
- //— = RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES IN 25mm ϕ IMC
- ///— = RG-59 COAXIAL CABLE + 2 x 1.25mm² TF WIRES IN 32mm ϕ IMC

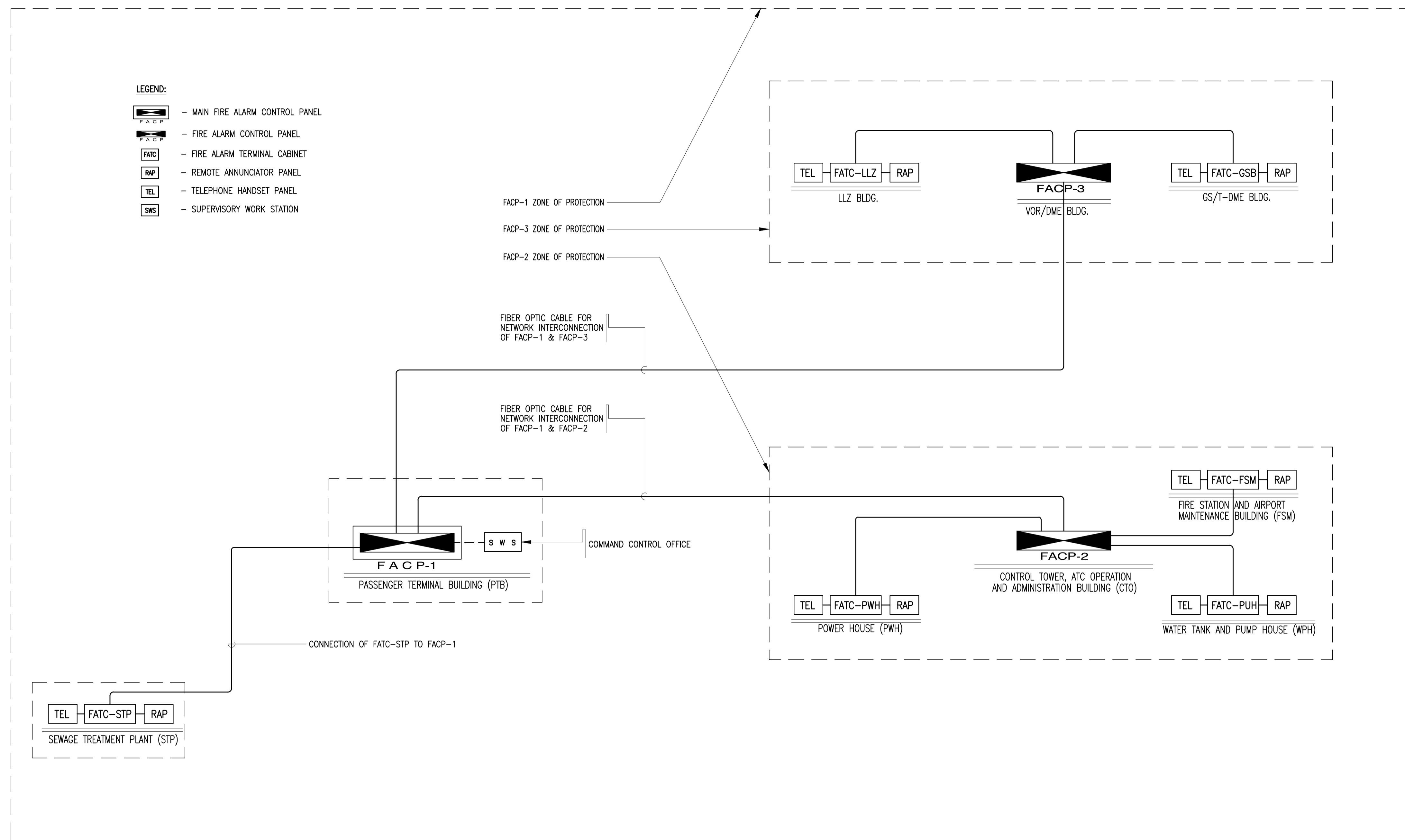
NOTE: FOR CABLE RUNS UP TO 125m USE RG-59
FOR CABLE RUNS OVER 125m USE RV-4351



CONTROL TOWER, OPERATIONS AND ADMINISTRATION BUILDING (CTO)

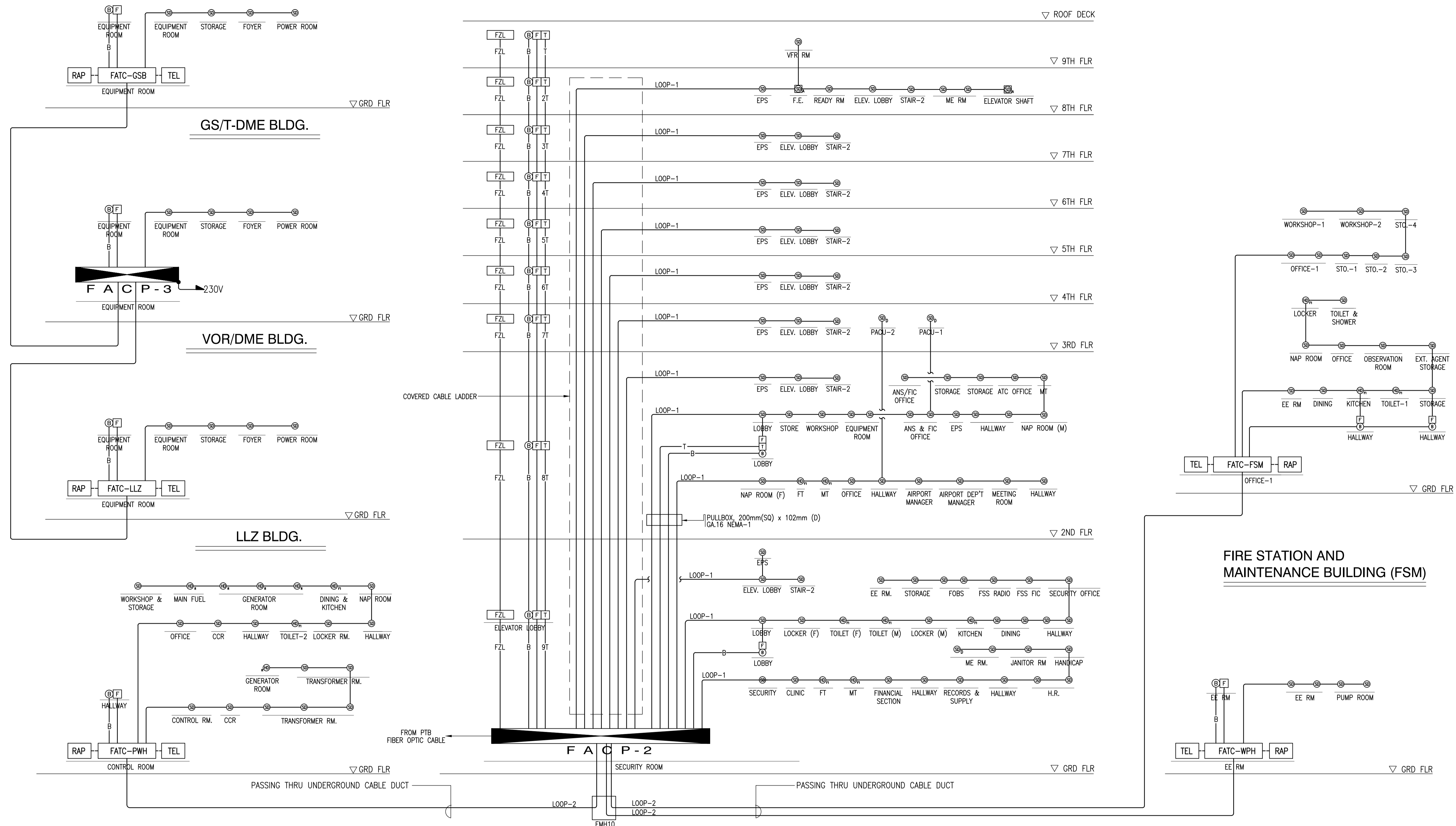
1 CCTV SYSTEM SCHEMATIC DIAGRAM
BO-6700-01/ NOT TO SCALE

	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. 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-4-0 (B0) General ELECTRICAL CCTV SYSTEM SCHEMATIC DIAGRAM2	SHEET NO: BO-6700-02
	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: JUNE 2013 INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



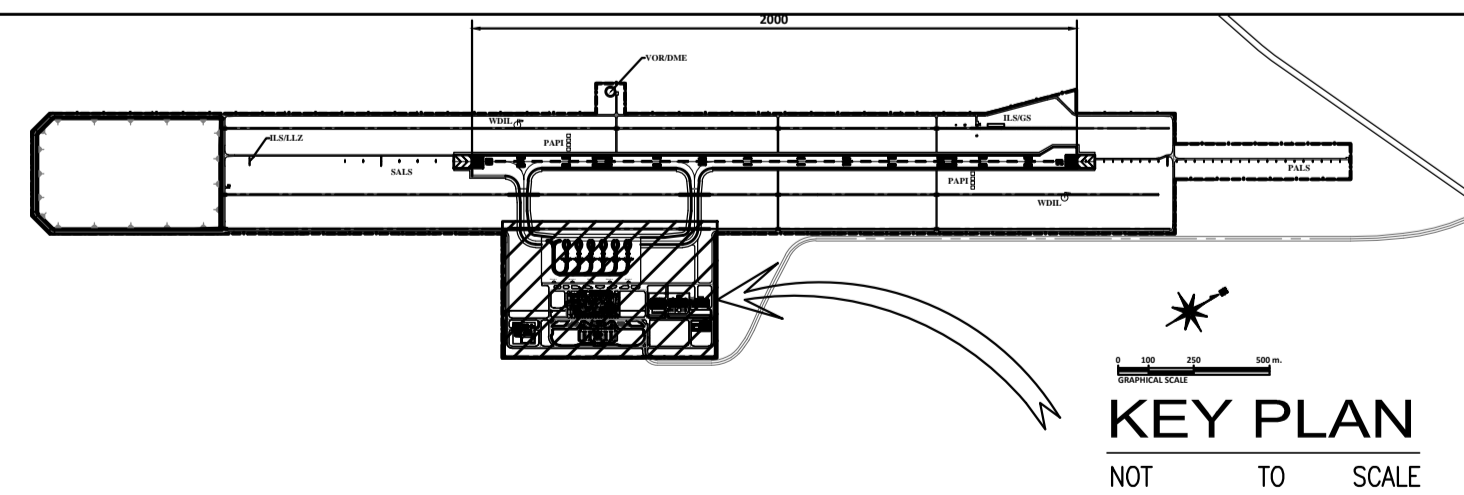
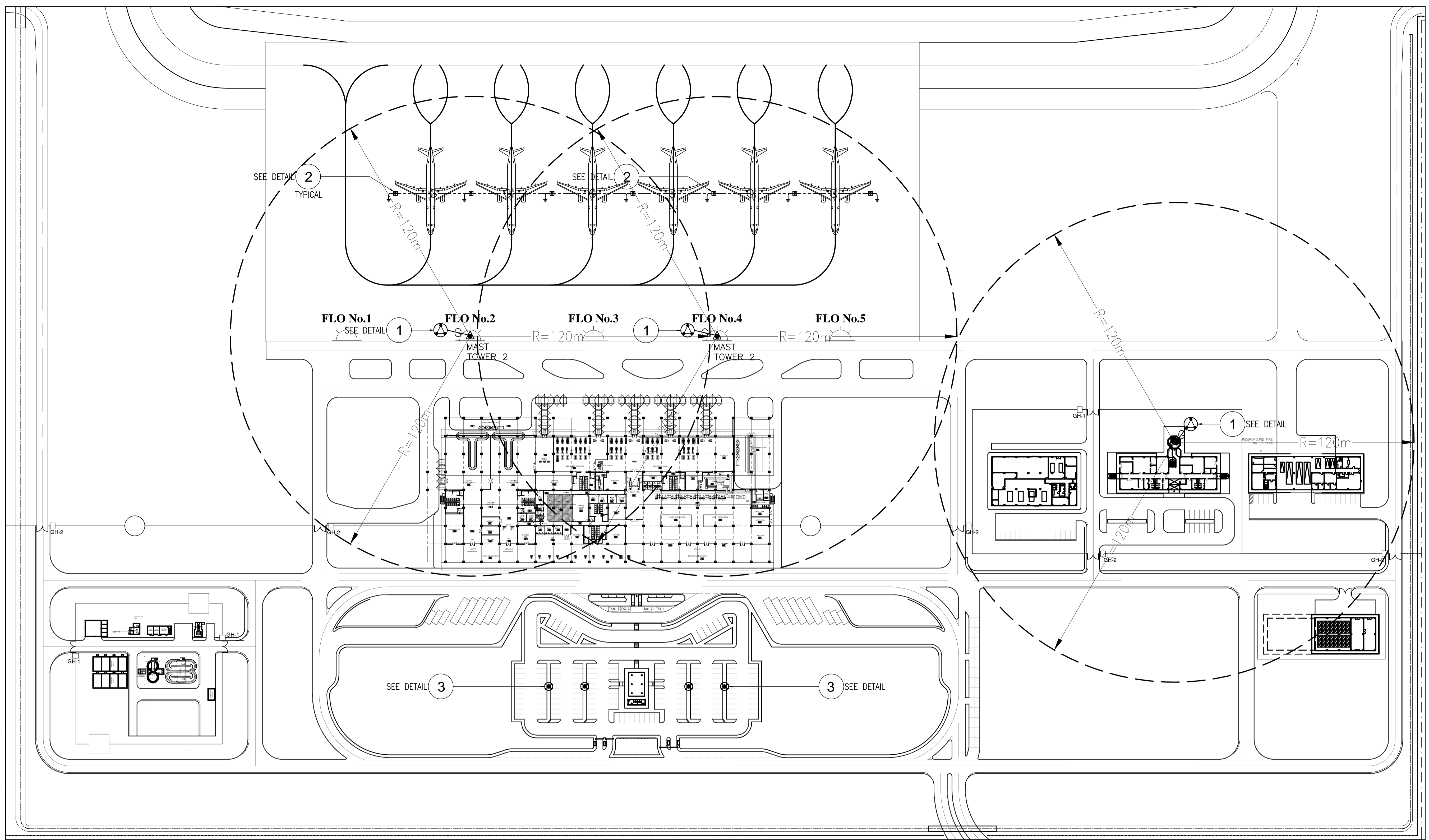
1 FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM (PART 1 OF 2)
BO-6800-01 NOT TO SCALE

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ELECTRICAL FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM1	SHEET NO: BO-6800-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE <small>Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS</small> <small>JAPAN INTERNATIONAL COOPERATION AGENCY</small>	TADASHI AOI <small>Team Leader</small>	JUN 2013 DATE INDEX AMENDMENTS Prepared by WIM Checked by HC Validated by	JUNE 2013 DATE INDEX AMENDMENTS Prepared by WIM Checked by HC Validated by		

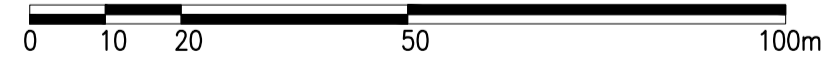


1 FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM
 80-6800-02 NOT TO SCALE

	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	LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL FIRE DETECTION AND ALARM SYSTEM SCHEMATIC DIAGRAM3	SHEET NO: BO-6800-03
	JICA DESIGN CONSULTANT JOINT VENTURE JAC JAPAN AIRPORT CONSULTANTS, INC.	TADASHI AOI <small>Team Leader</small>	JUN 2013	DATE INDEX	AMENDMENTS	Prepared by: WIM Checked by: HC Validated by:	DRAWING SCALE: AS SHOWN



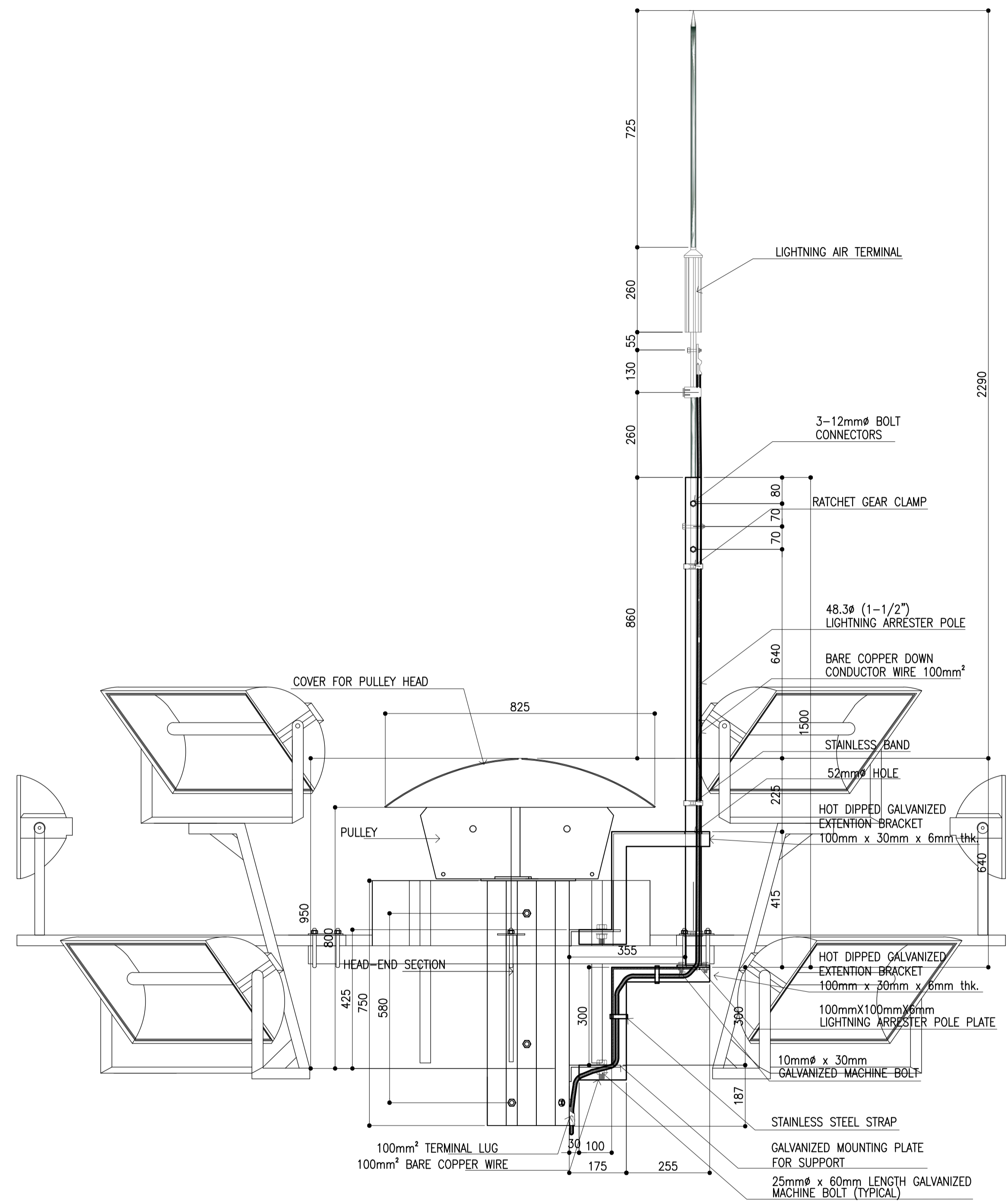
1 LIGHTNING PROTECTION AND AIRCRAFT GROUNDING SYSTEM
 BO-6900-01 GRAPHIC SCALE



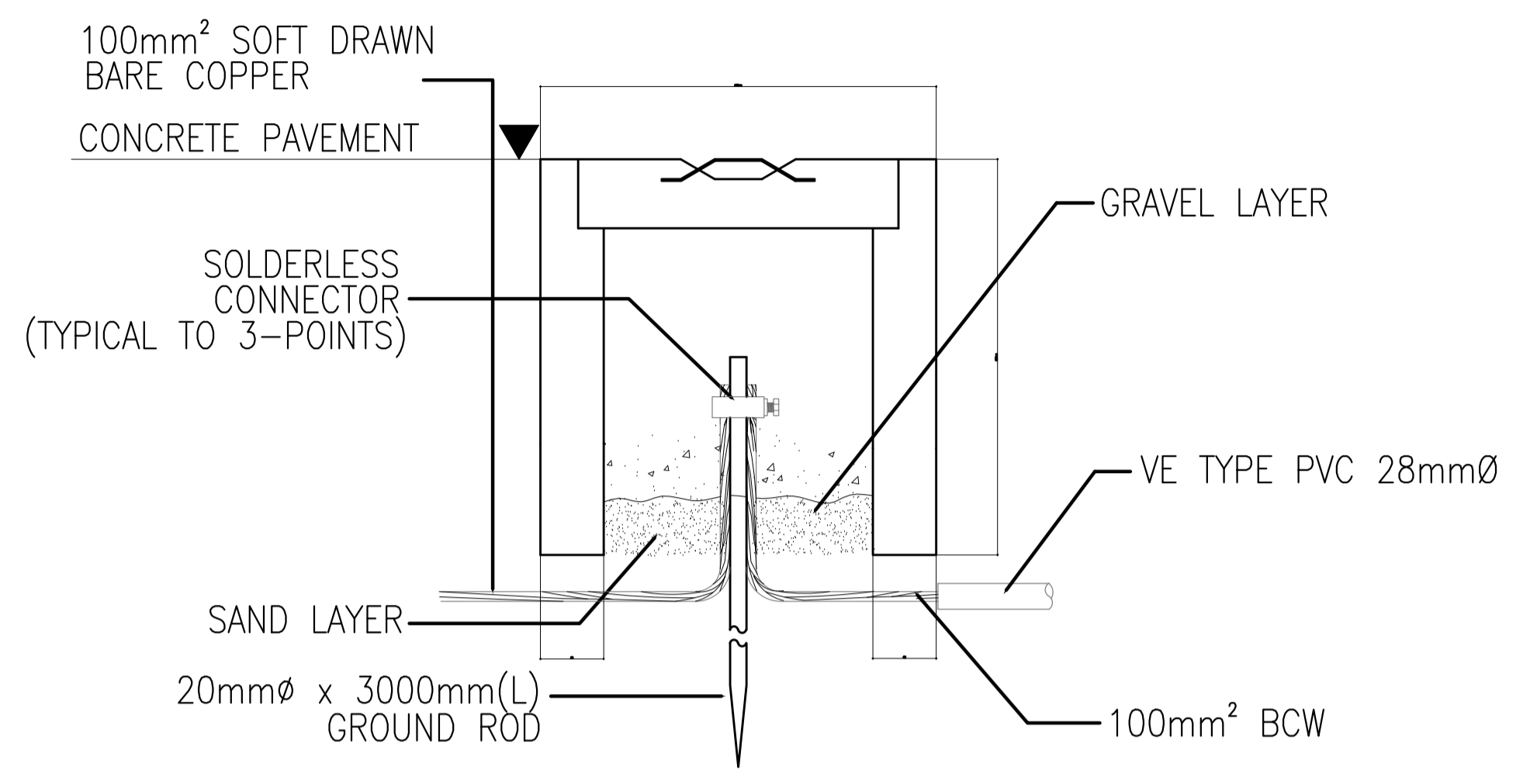
- LEGEND:**
- EARLY EMISSION AIR TERMINAL 120m (R), ON TOP OF MAST TOWER 2, 4 & CONTROL TOWER
 - CONVENTIONAL TYPE AIR TERMINAL ON 12m CARPARK LIGHTING AND MAST TOWER1
 - AIRCRAFT GROUND BAR, 20mmØ
 - 20mmØ x 3000 LONG COPPER CLAD STEEL GROUND ROD

- NOTES:**
1. STP AND ALL BUILDINGS ARE PROVIDED WITH BUILDING GROUND.
 2. 12m TO CARPARK HOT AND MAST TOWER LIGHTING POLE SHALL BE PROVIDED WITH EARTH GROUNDING
 3. SEE SHEET NO. BO-6900-2 & 3 FOR DETAILS.

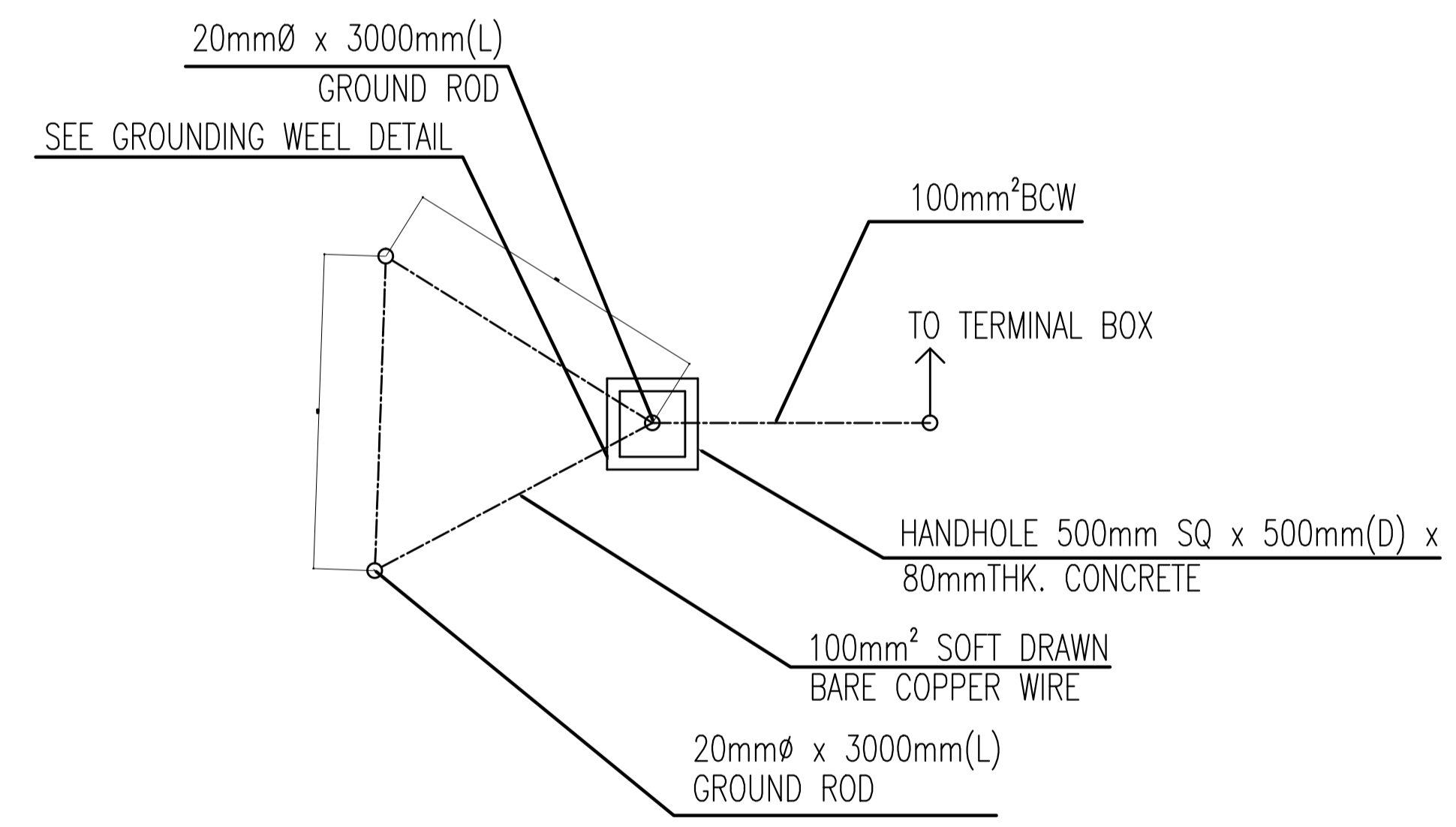
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>TIN: 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary for Project Implementation, DOTC</small>	PROJECT TITLE: NEW BOHOL AIRPORT CONSTRUCTION AND SUSTAINABLE ENVIRONMENT PROTECTION PROJECT LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL LIGHTNING PROTECTION AND AIRCRAFT GROUNDING SYSTEM	SHEET NO: BO-6900-01 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	DATE: JUNE 2013 INDEX: _____ AMENDMENTS: _____ Prepared by: _____ Checked by: _____ Validated by: _____	WIM HC



1 BASIC DETAIL OF LIGHTNING AIR-TERMINAL FOR 25m MAST TOWER
NOT TO SCALE

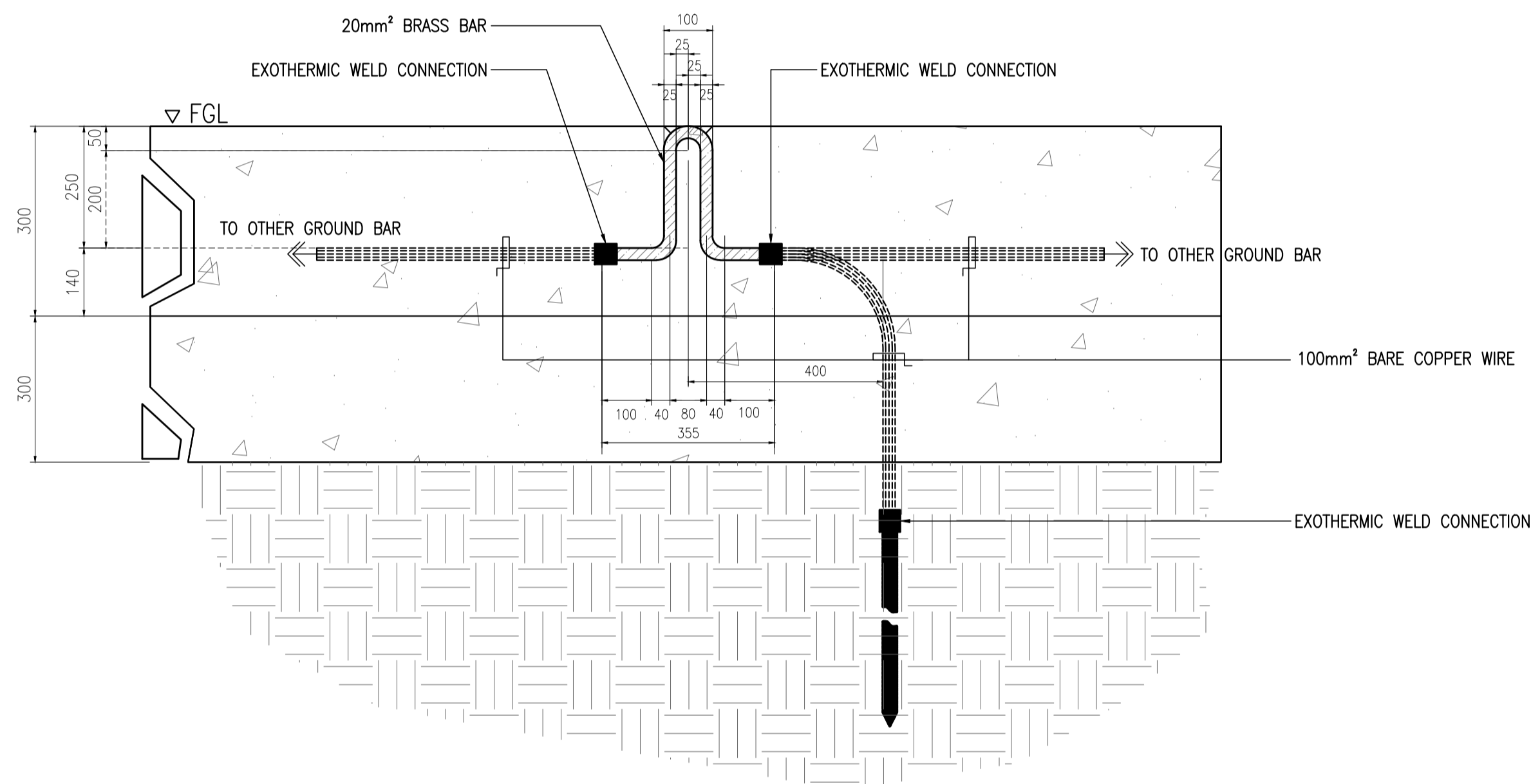


1B GROUNDING WELL DETAIL
NOT TO SCALE

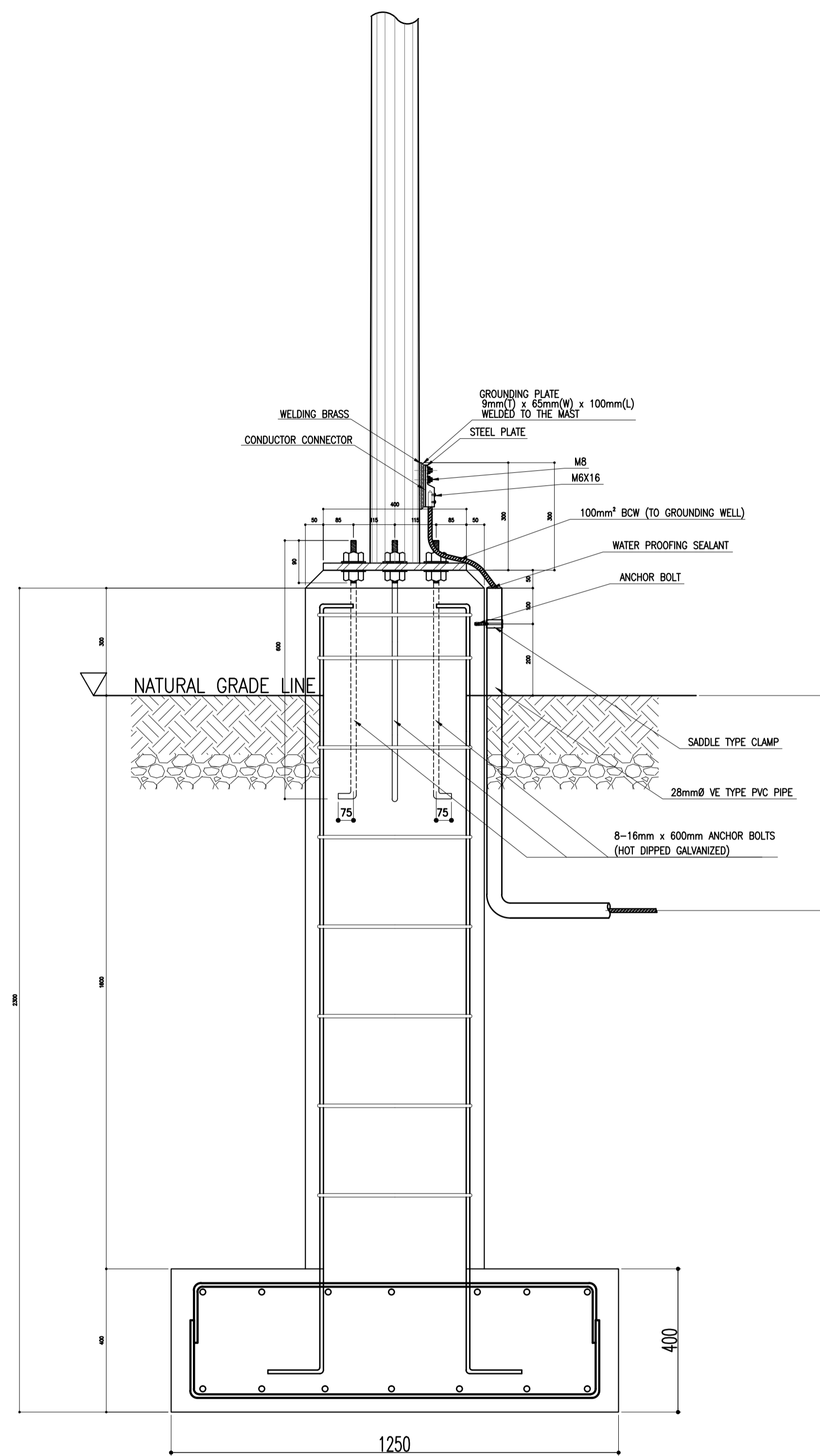


1A LIGHTNING ARRESTER DETAIL OF GROUNDING SYSTEM
NOT TO SCALE

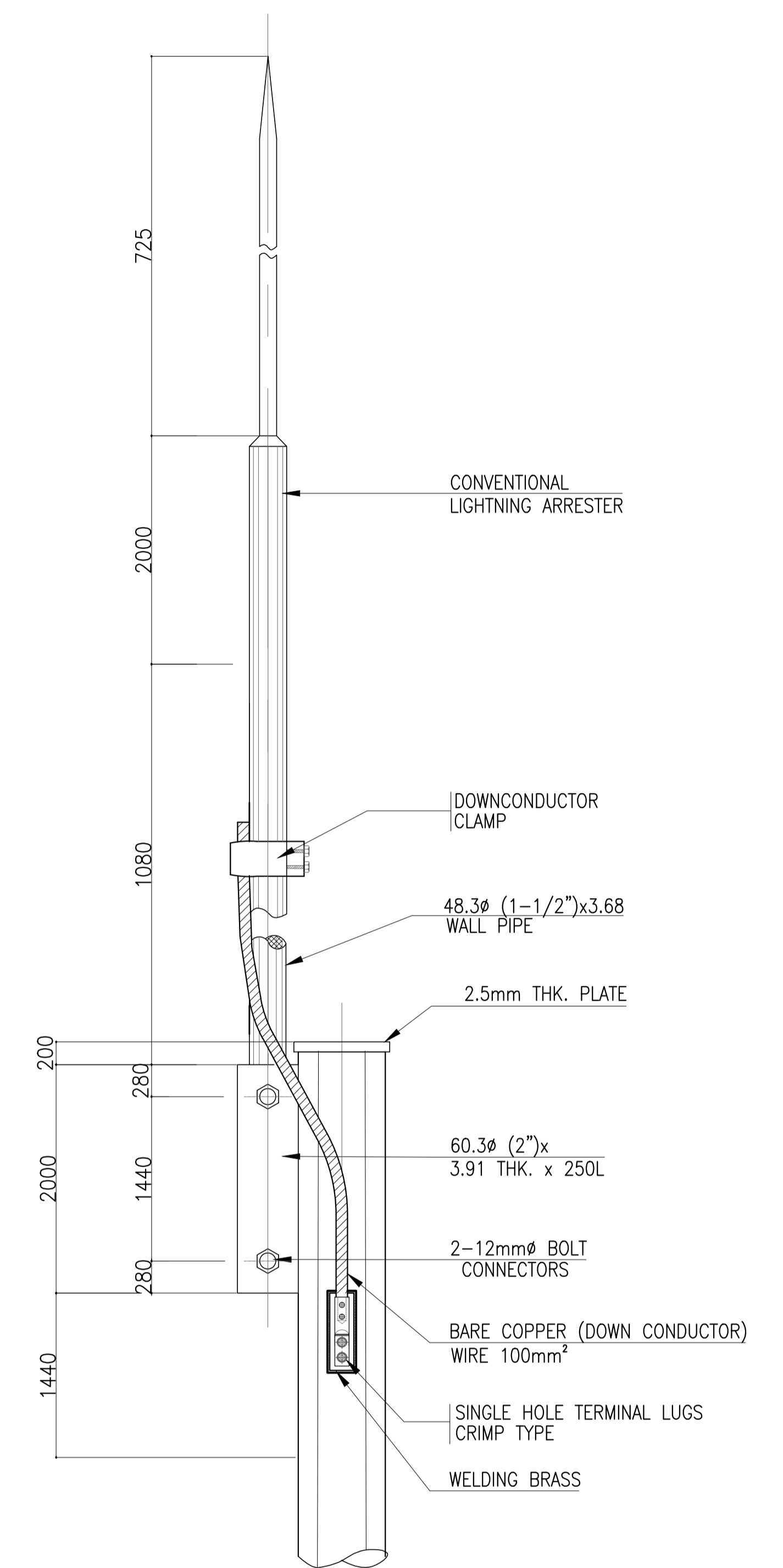
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>TIN: 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: 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-4-0 (B0) General ELECTRICAL LIGHTNING PROTECTION DETAILS	SHEET NO: BO-6900-02
	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: WIM HC AMENDMENTS: Prepared by, Checked by, Validated by



2 AIRCRAFT BAR GROUNDING INSTALLATION DETAIL (TYPICAL)
NOT TO SCALE



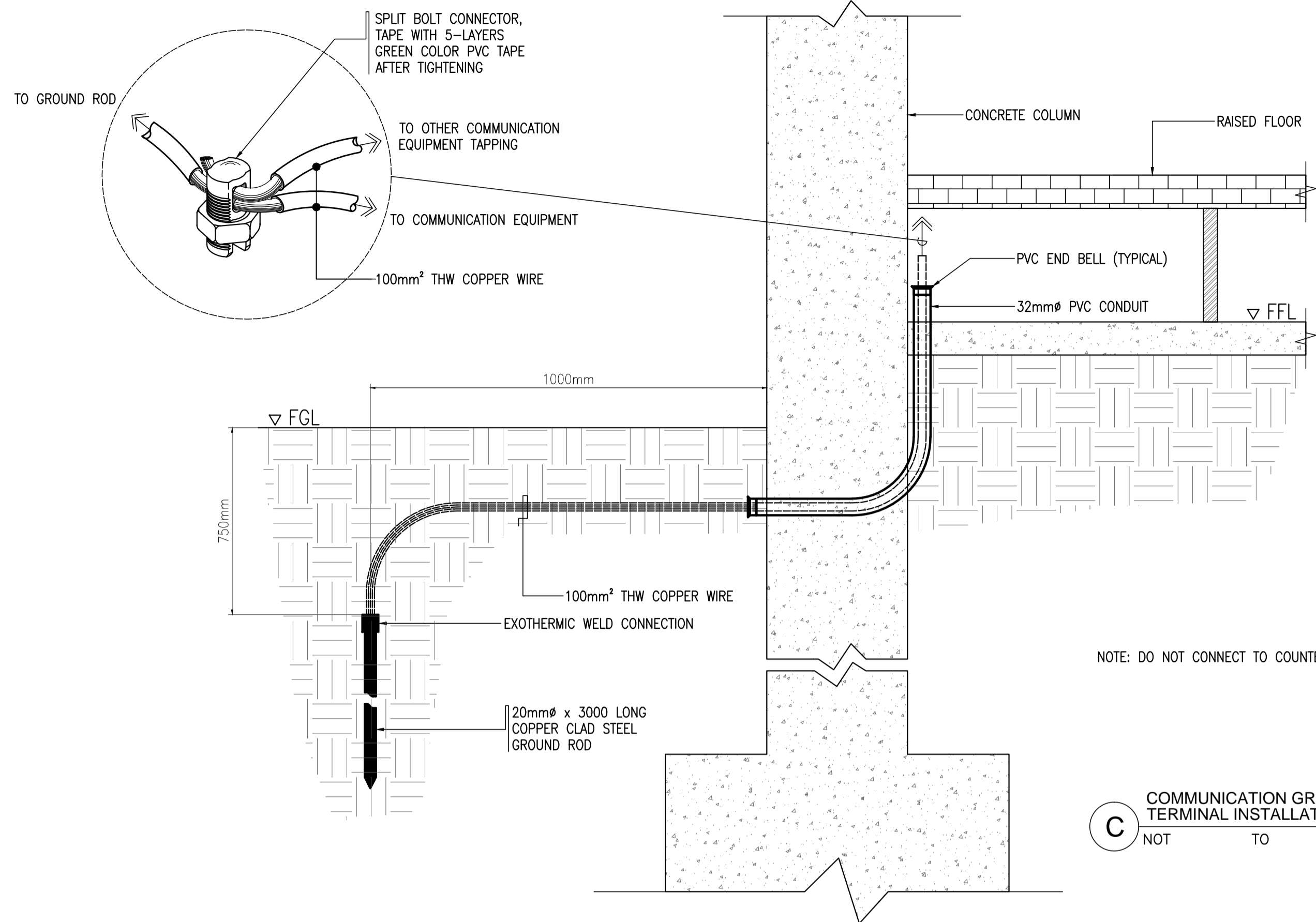
BASIC FOUNDATION FOR 12m CARPARK LIGHTING POLE



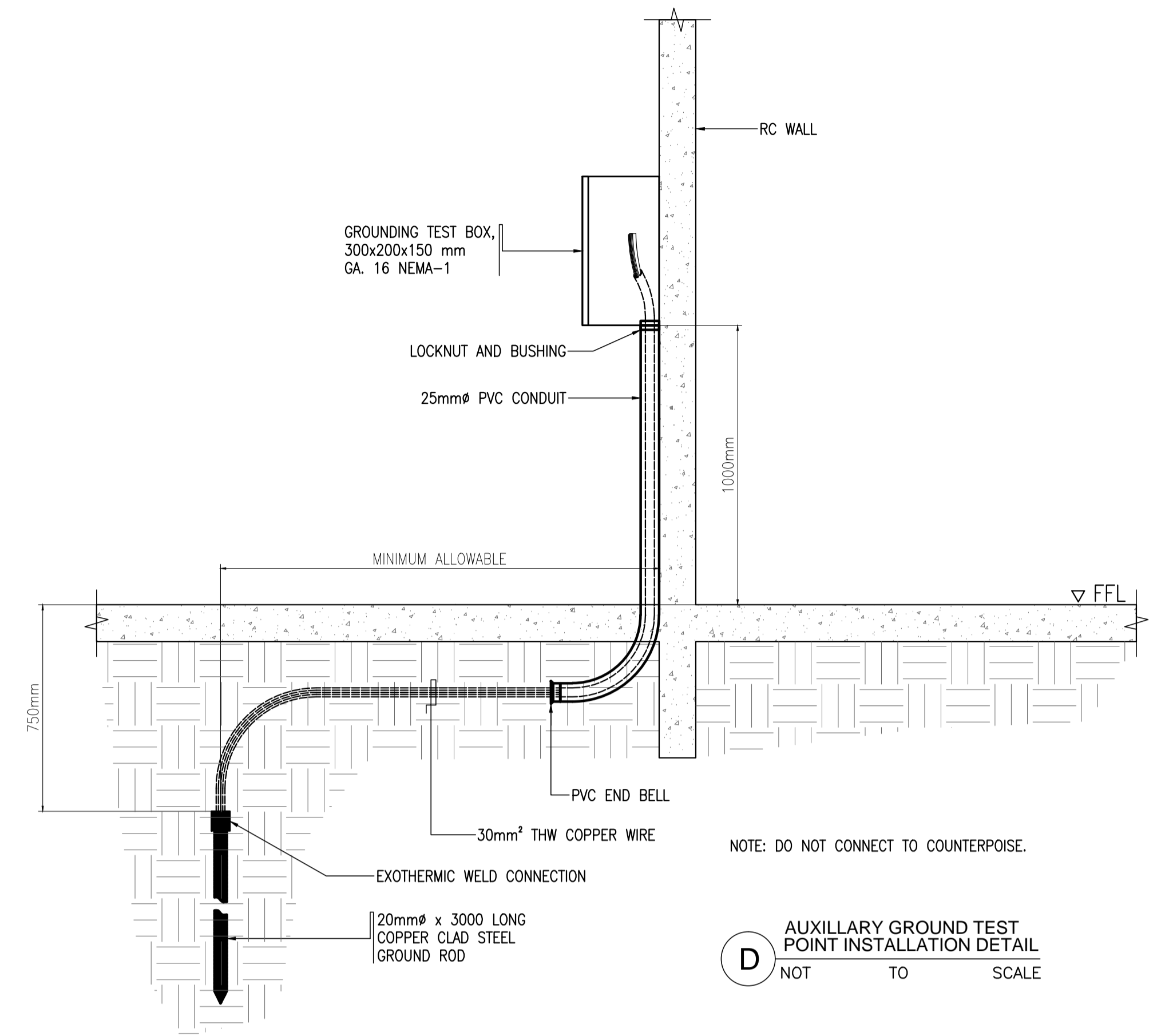
BASIC LIGHTNING ARRESTER INSTALLATION DETAIL

3 BASIC DETAIL INSTALLATION FOR 12m CARPARK LIGHTNING POLE
NOT TO SCALE

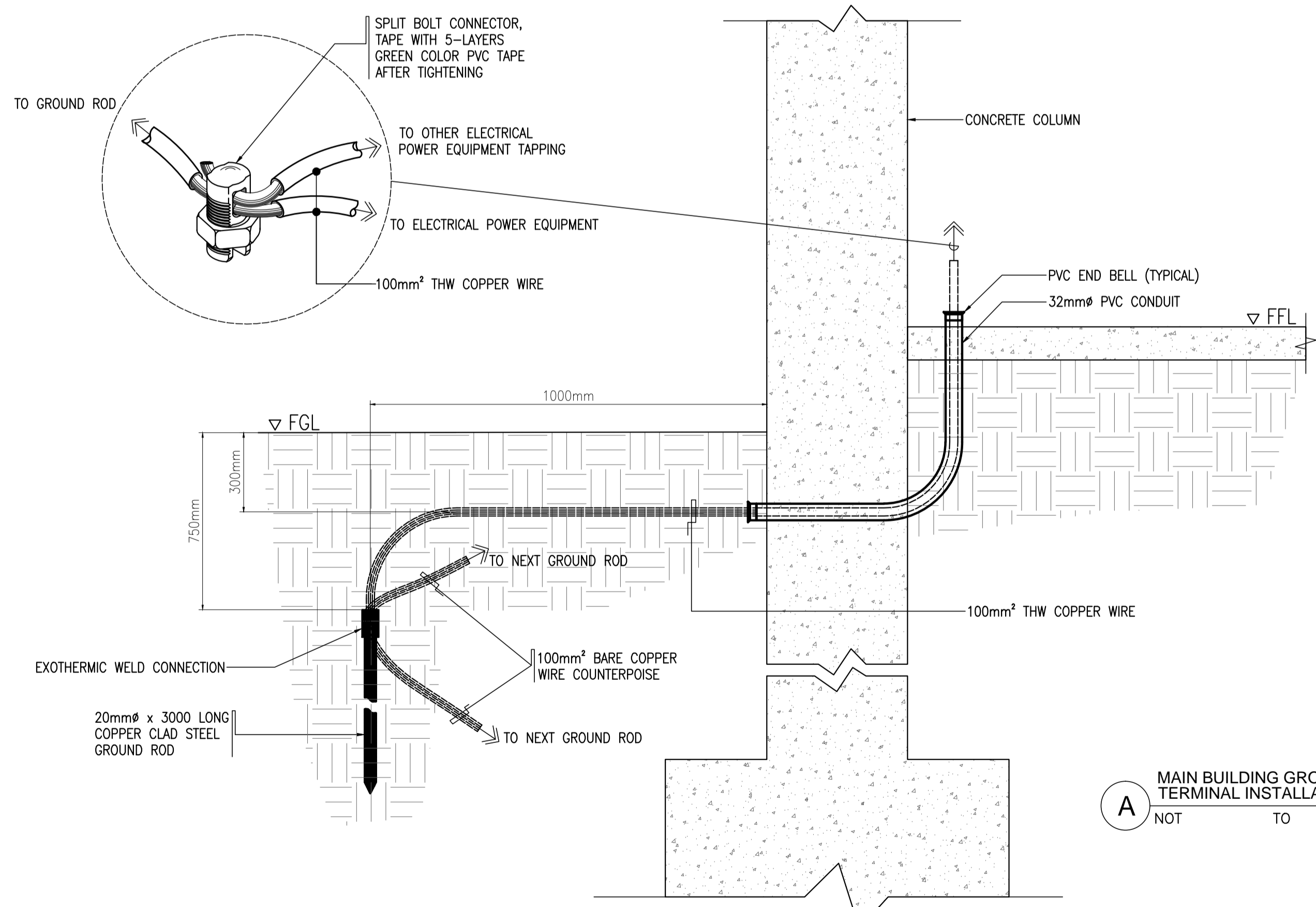
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: 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-4-0 (B0) General ELECTRICAL LIGHTNING PROTECTION AND AIRCRAFT GROUNDING DETAILS	SHEET NO: BO-6900-03
	JICA DESIGN CONSULTANT JOINT VENTURE 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: _____ Checked by: _____ Validated by: _____	DRAWING SCALE: AS SHOWN		



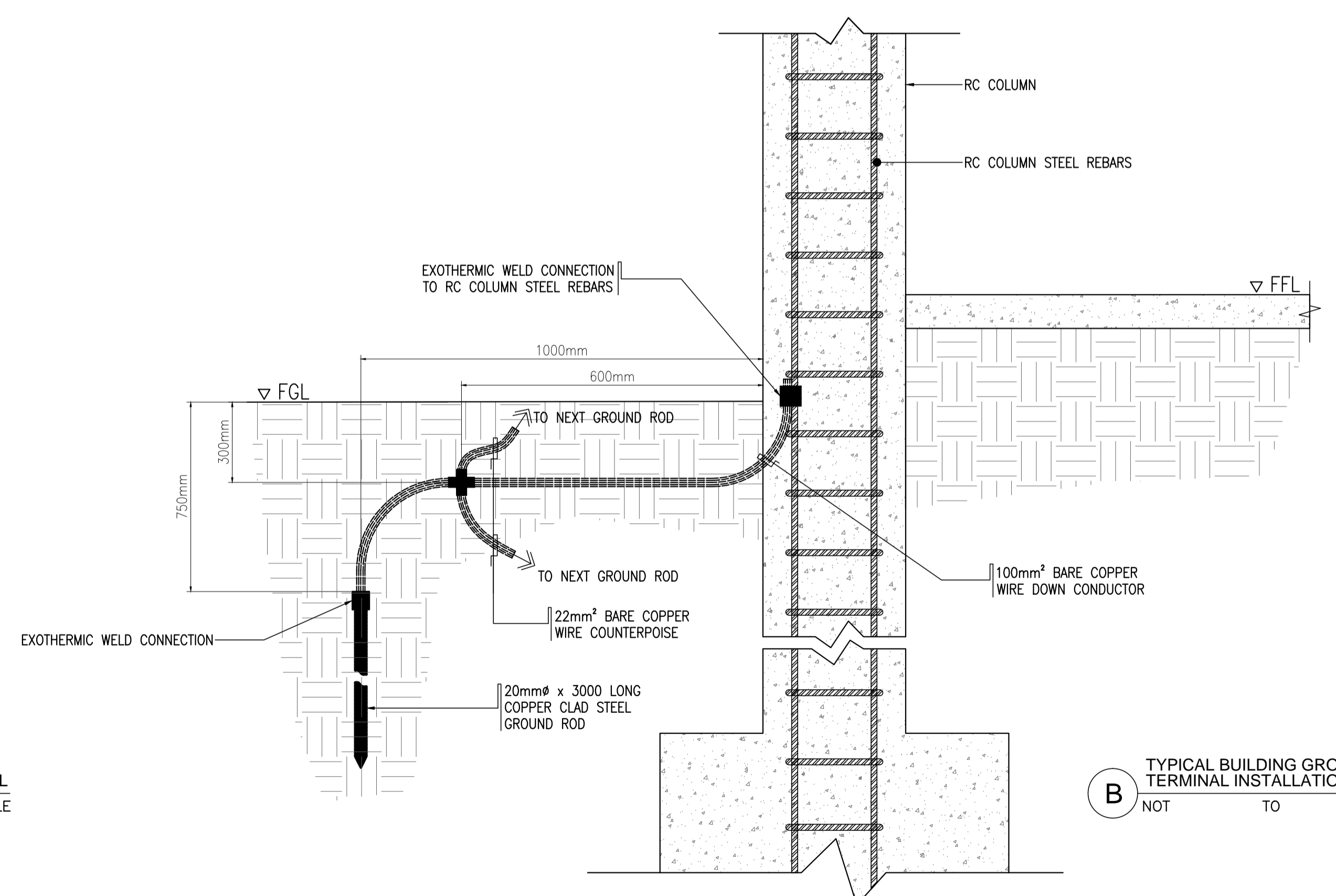
C COMMUNICATION GROUND TERMINAL INSTALLATION DETAIL
NOT TO SCALE



D AUXILIARY GROUND TEST POINT INSTALLATION DETAIL
NOT TO SCALE

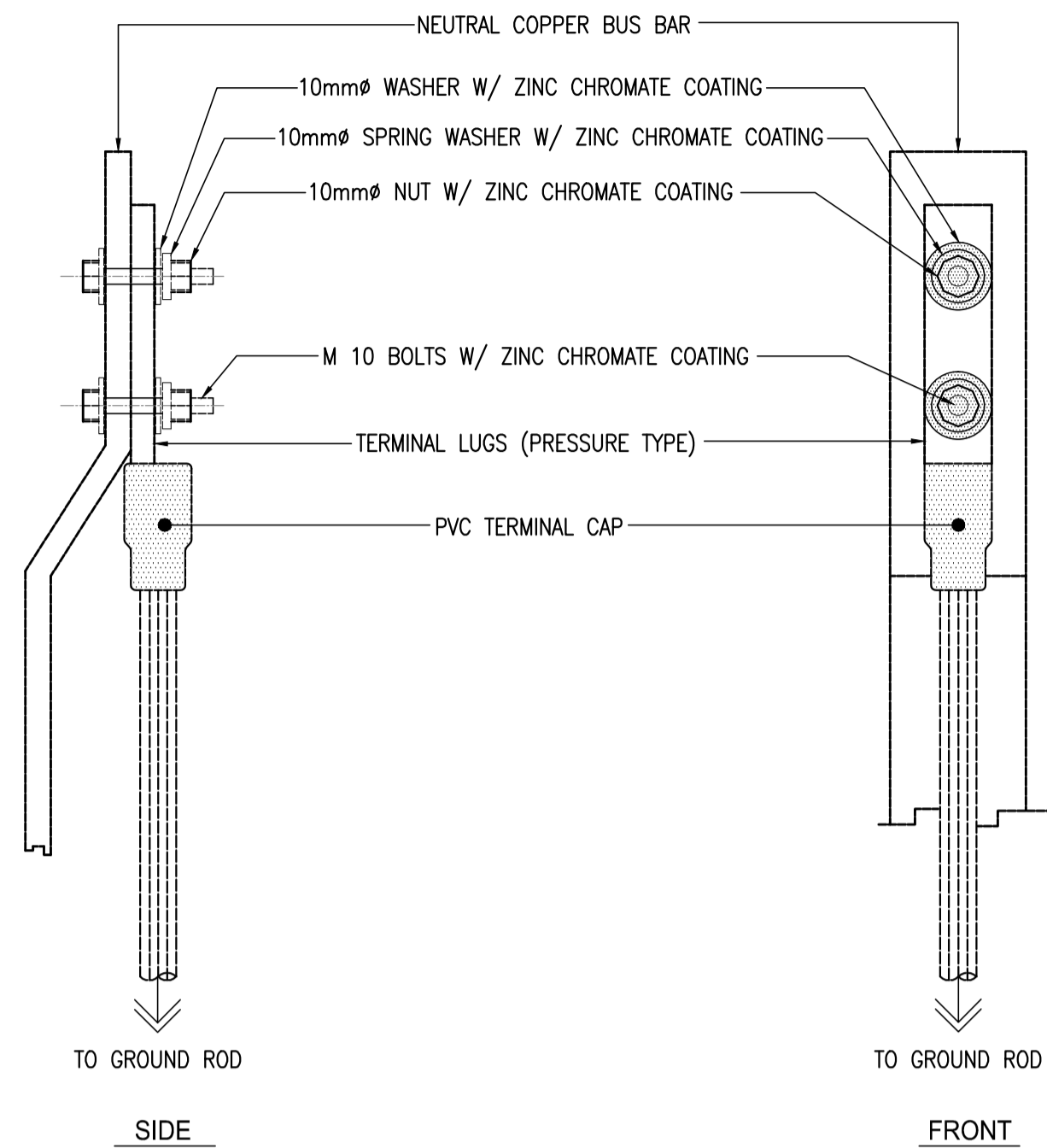


A MAIN BUILDING GROUND TERMINAL INSTALLATION DETAIL
NOT TO SCALE

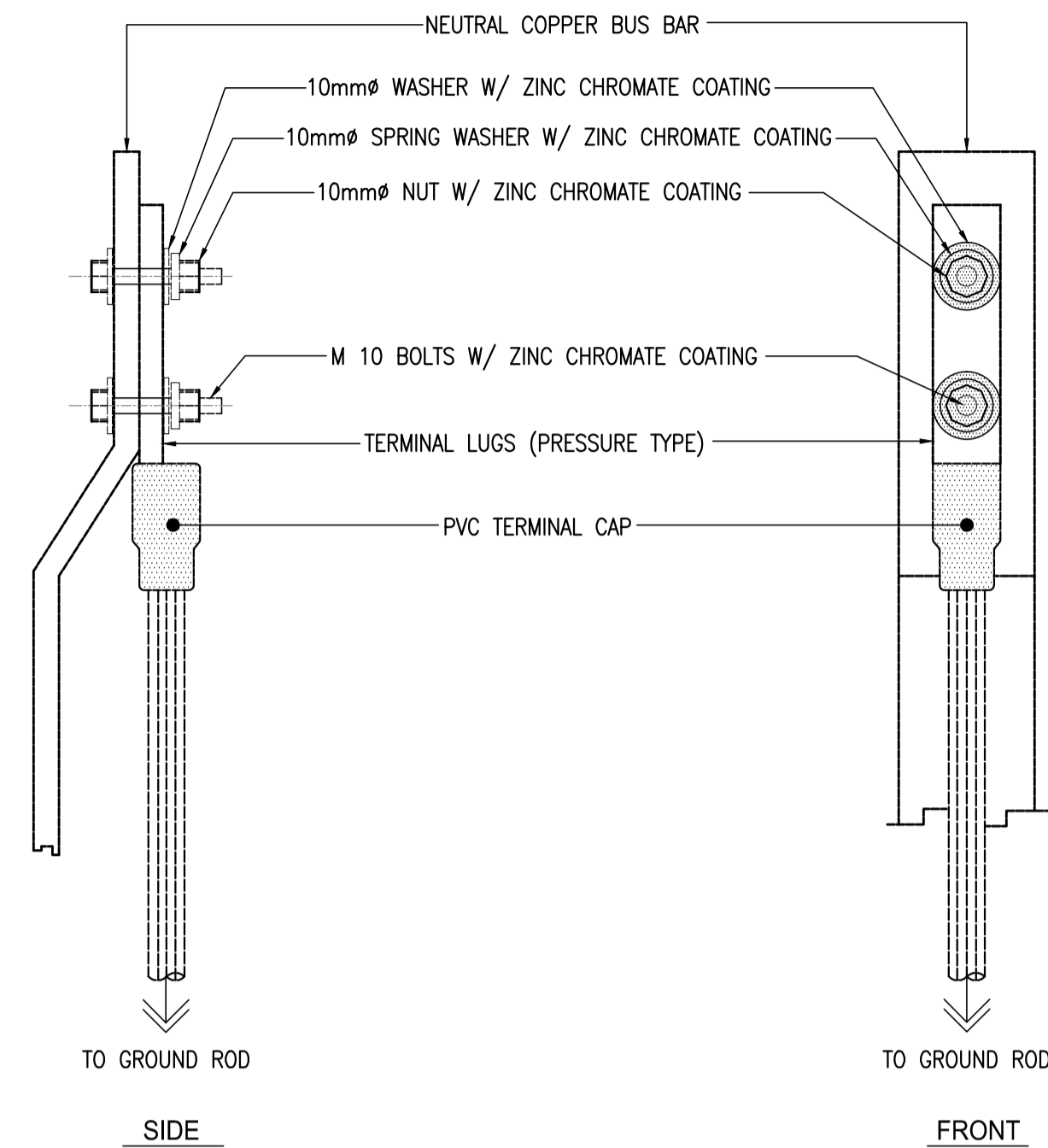


B TYPICAL BUILDING GROUND TERMINAL INSTALLATION DETAIL
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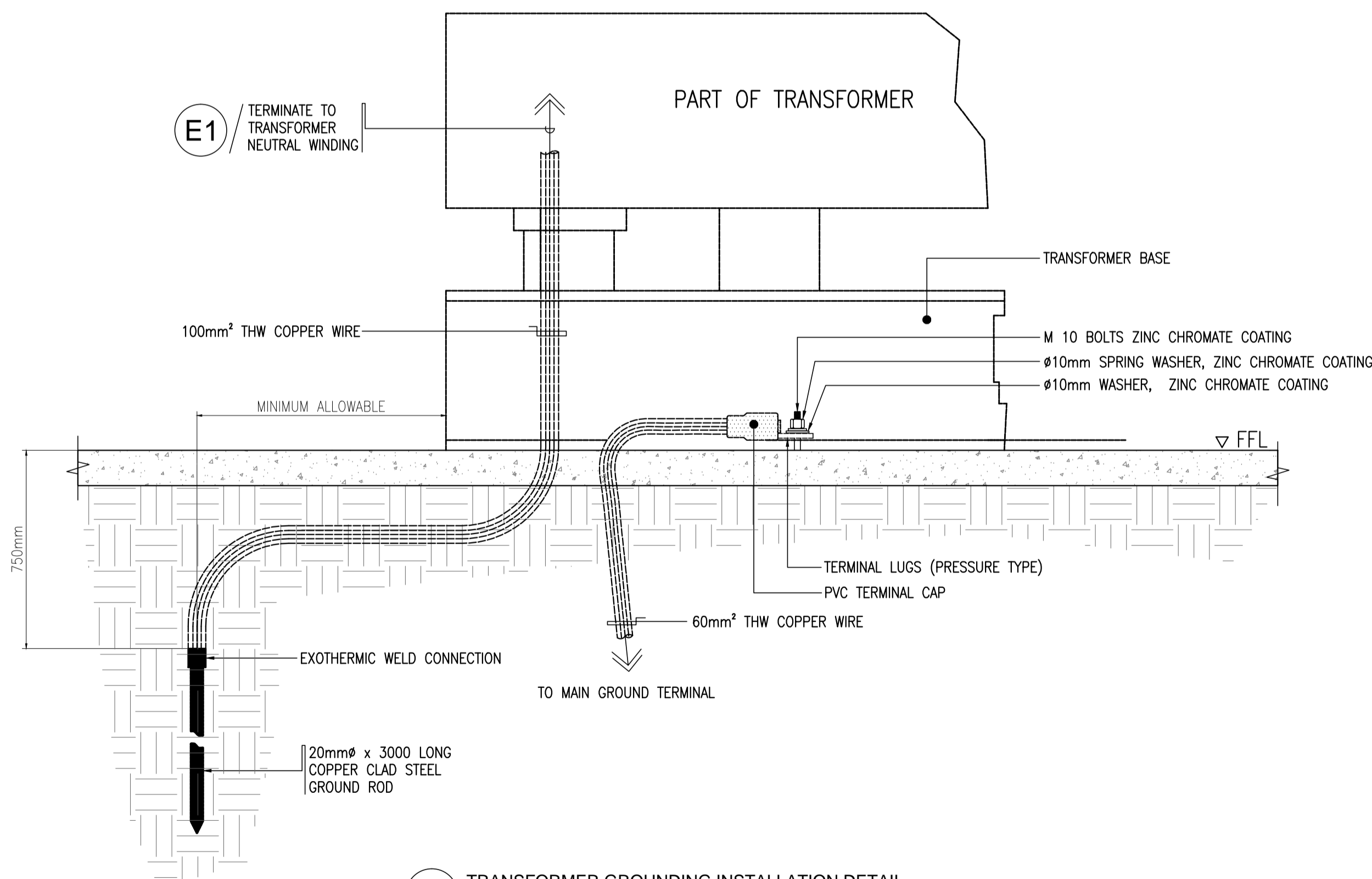
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>PLAN: 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: 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-4-0 (B0) General ELECTRICAL GROUNDING SYSTEM DETAILS1	SHEET NO: BO-6900-04	
	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>	DATE: JUNE 2013	INDEX:	AMENDMENTS:	Prepared by: WIM Checked by: HC Validated by:



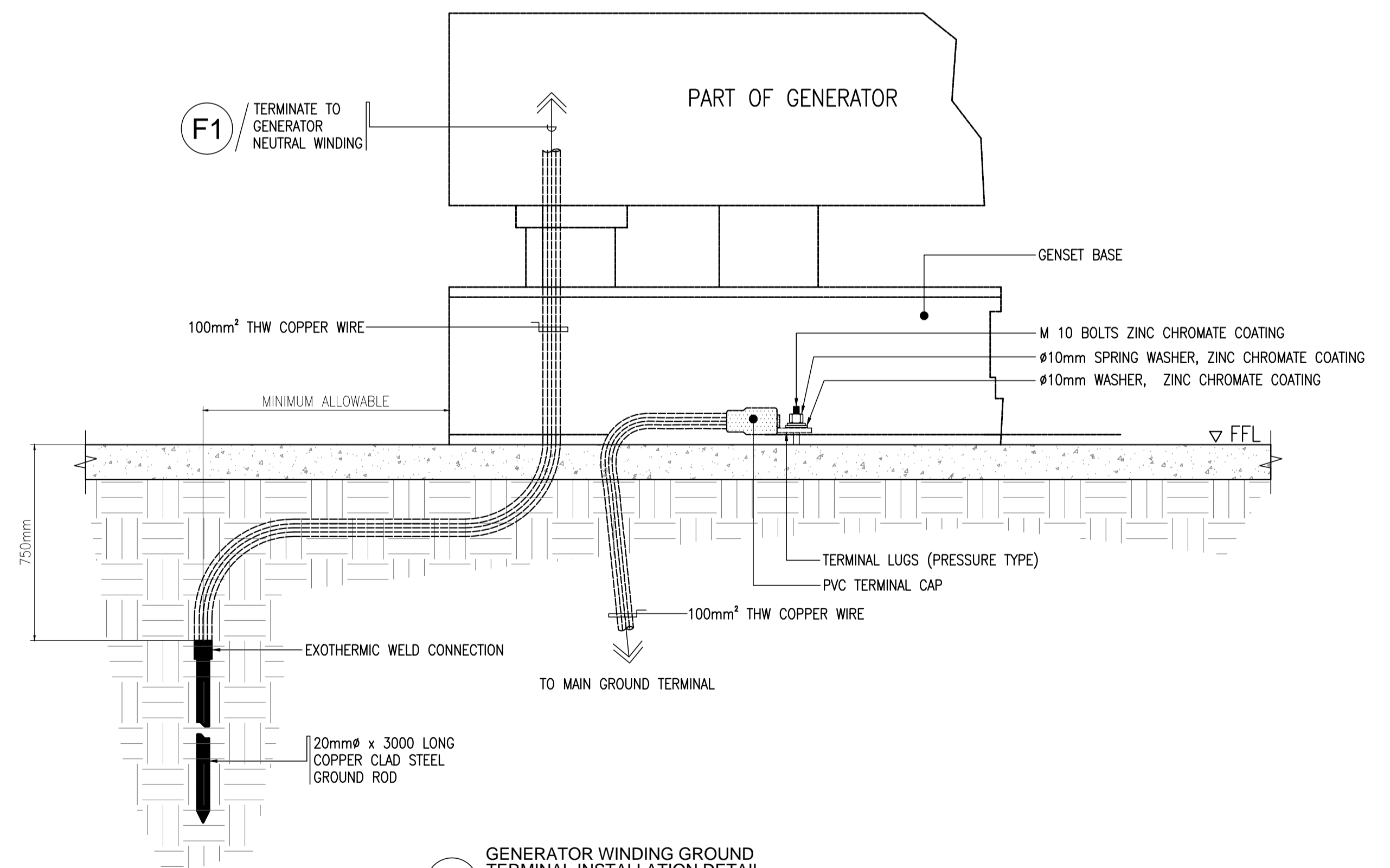
E1 TRANSFORMER NEUTRAL GROUND TERMINAL INSTALLATION DETAIL
NOT TO SCALE



F1 GENERATOR NEUTRAL GROUND TERMINAL INSTALLATION DETAIL
NOT TO SCALE

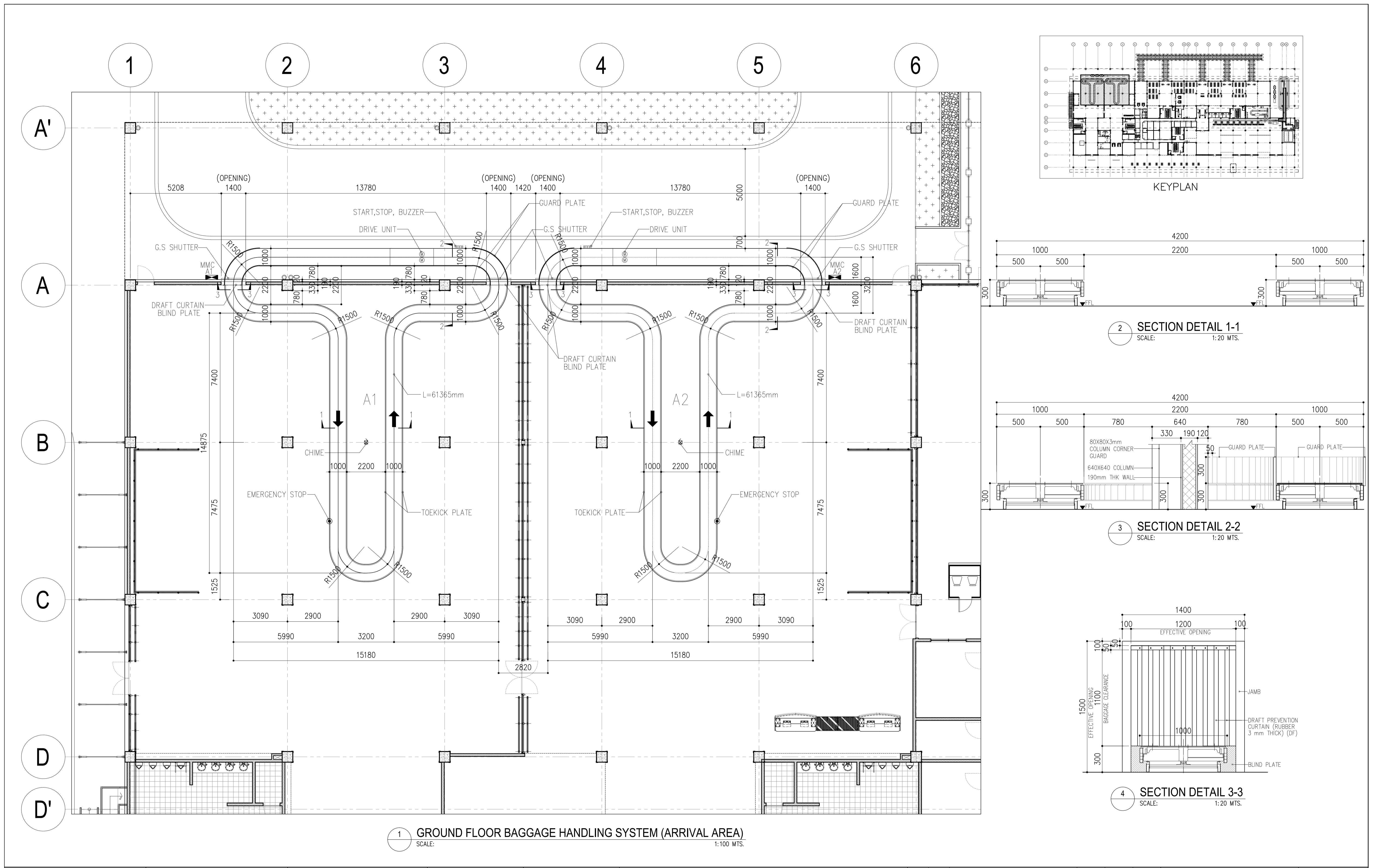


E TRANSFORMER WINDING GROUND TERMINAL INSTALLATION DETAIL
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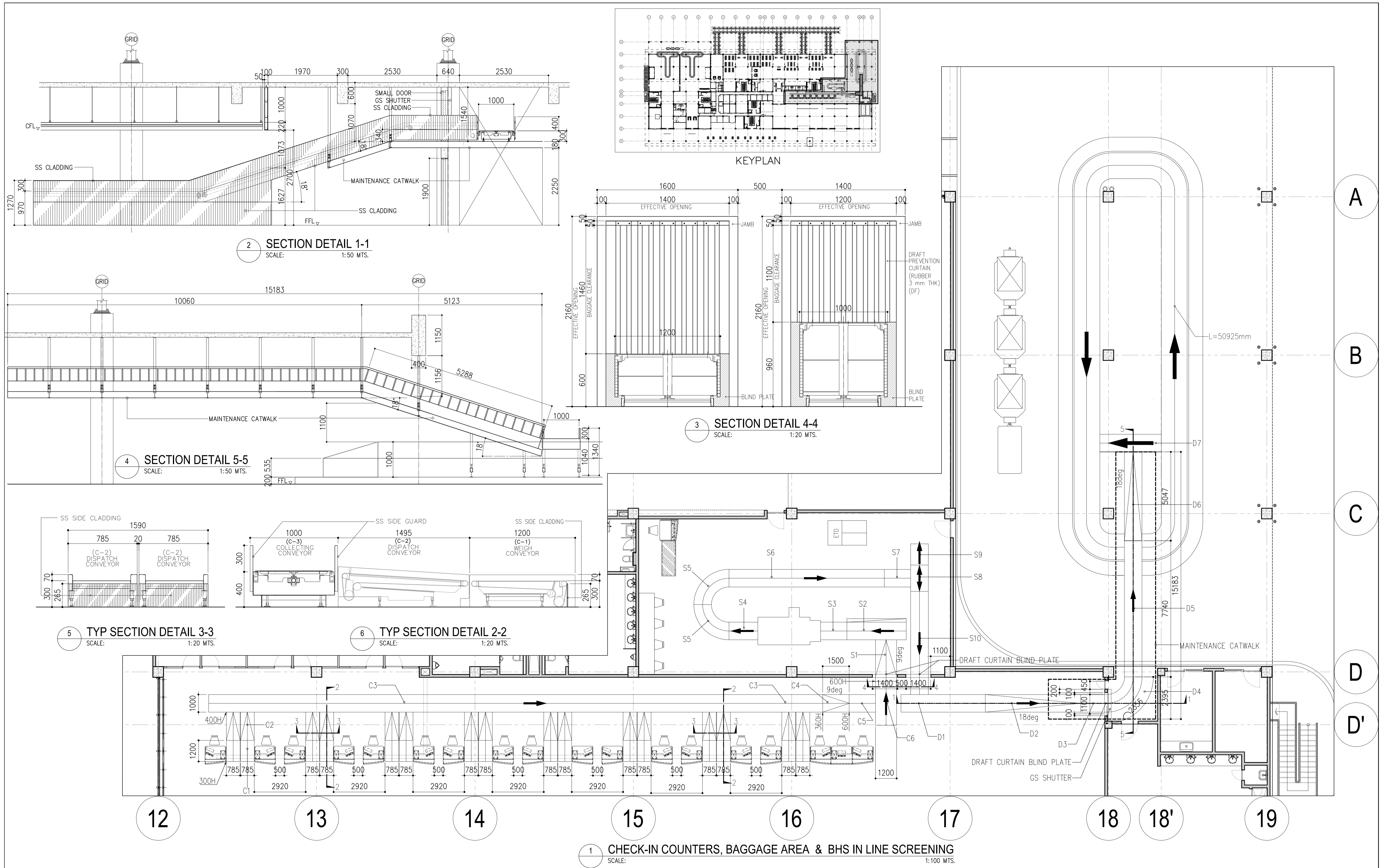


F GENERATOR WINDING GROUND TERMINAL INSTALLATION DETAIL
NOT TO SCALE

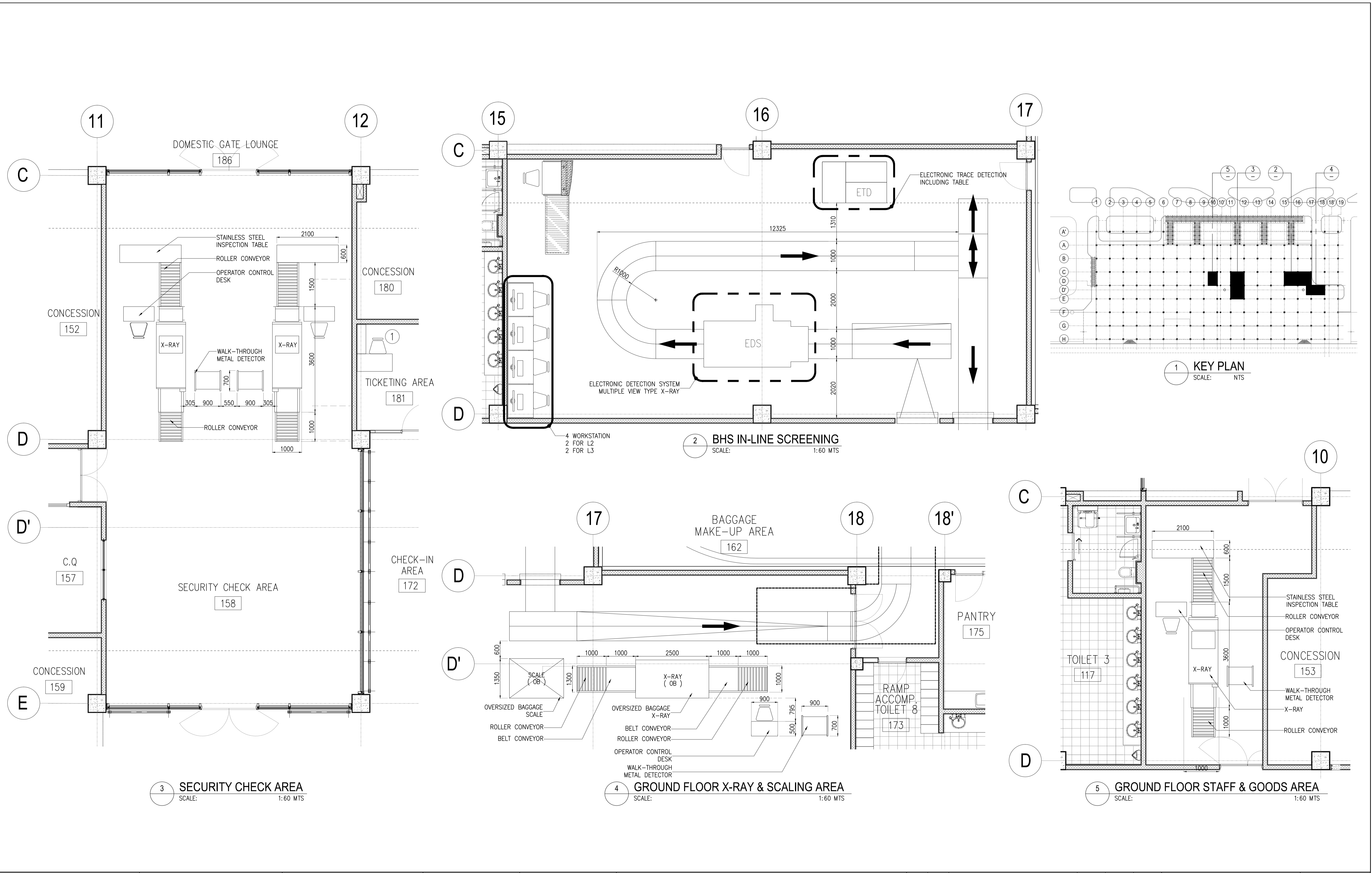
	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PTR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.N. 119-747-900 PLACE: MANILA</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: 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-4-0 (B0) General ELECTRICAL GROUNDING SYSTEM DETAILS2	SHEET NO: BO-6900-05
	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:



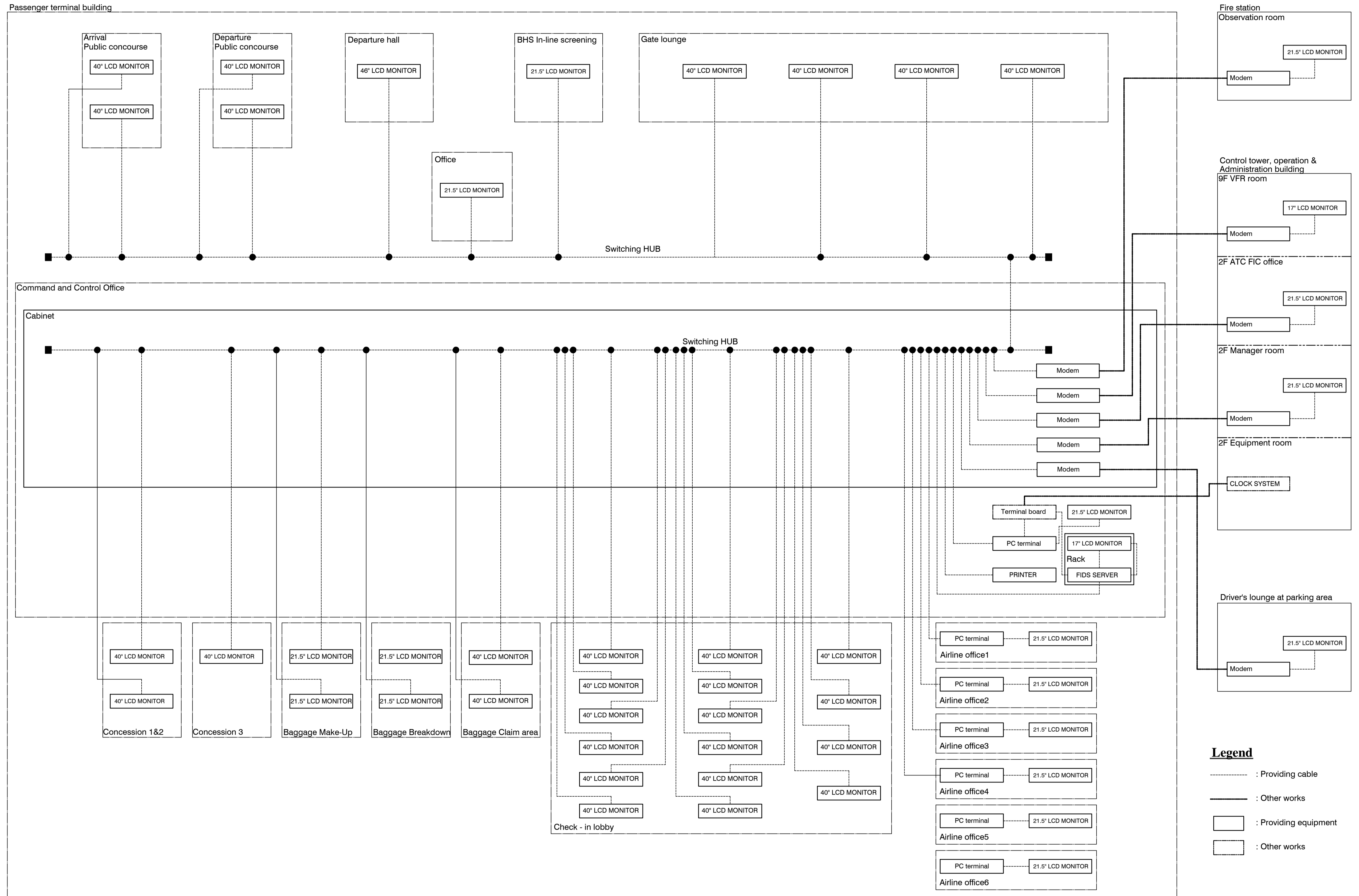
	PREPARED BY: WILLIAM I. MALLONGA <small>PROF. Architect PTR. 3911137 RES. NO.: 4623 DATE: MAY 9, 2013 TEL. 159-544-198 PLACE: MANAR CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary 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-4-0 GENERAL (B1) PASSENGER TERMINAL BUILDING SPECIAL EQUIPMENT WORKS BHS ARRIVAL LAYOUT	SHEET NO: B0-7300-01
	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>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	DRAWING SCALE: AS SHOWN



	PREPARED BY: WILLIAM I. MALLONGA <small>PROF. Architect PTR. 381137 RES. NO. 4623 DATE: MAY 9, 2013 TEL. 159-564-198 PLACE: MAKATI 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-4-0 GENERAL (B1) PASSENGER TERMINAL BUILDING SPECIAL EQUIPMENT WORKS BHS DEPARTURE LAYOUT	SHEET NO: B0-7300-02
	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>	DATE: JUNE 2013 INDEX:	AMENDMENTS:	SHEET SCALE: AS SHOWN

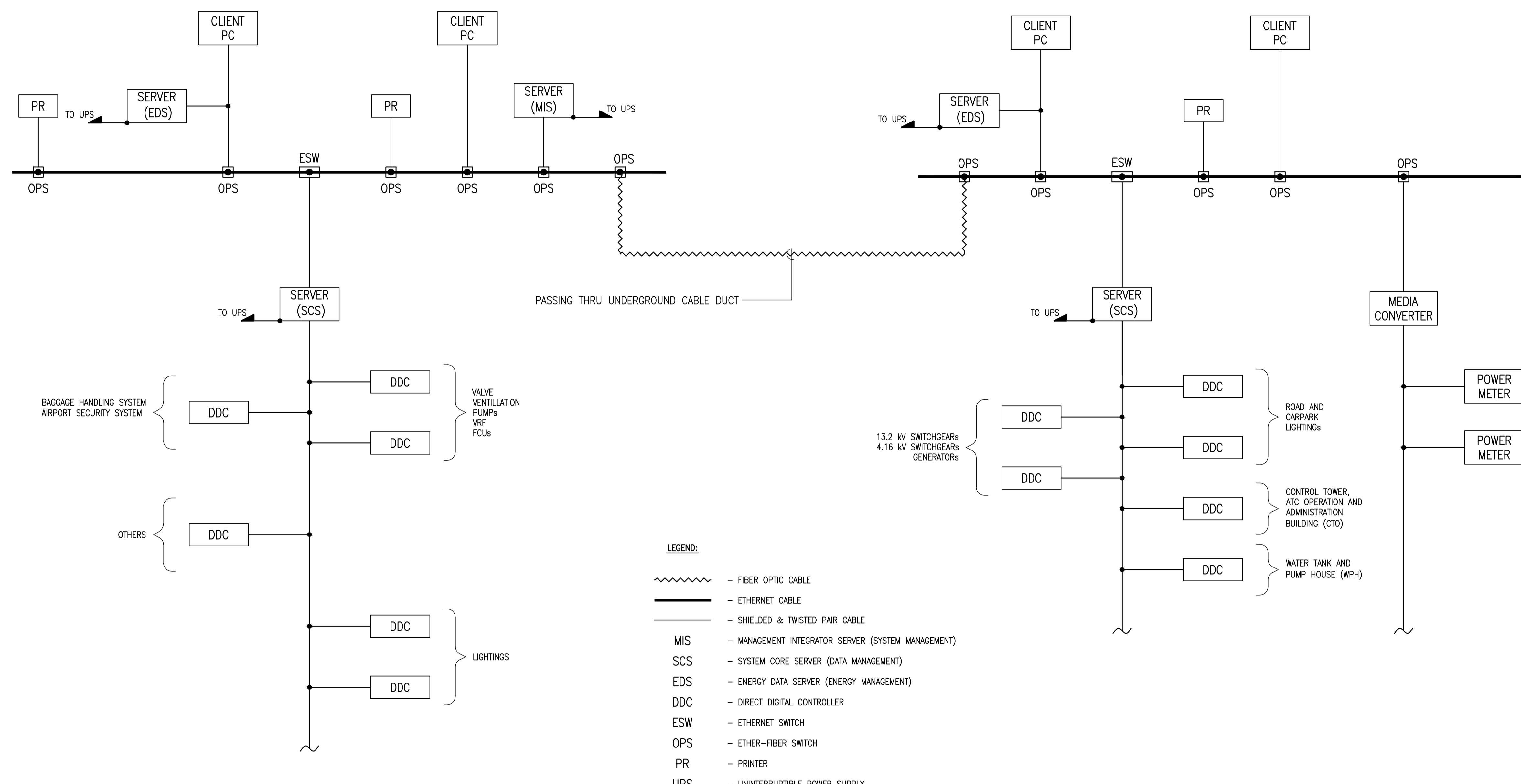


	PREPARED BY: WILLIAM I. MALLONGA <small>PROF: Architect PTR: 3911137 RES. NO.: 4623 DATE: MAY 9, 2013 TEL: 159-564-198 PLACE: MANILA CITY</small>	RECOMMENDING APPROVAL: ILDEFONSO T. PATDU, JR. <small>Assistant Secretary for Project Implementation, DOTC</small>	APPROVED: JULIANITO G. BUCAYAN, JR. <small>Undersecretary 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-4-0 GENERAL (B) PASSENGER TERMINAL BUILDING ELECTRICAL PTB SECURITY SYSTEM	SHEET NO: B0-7400-01 DRAWING SCALE: AS SHOWN
	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	FRS Jr. WIM HC Prepared by Checked by Validated by	



- Legend**
- : Providing cable
 - : Other works
 - : Providing equipment
 - : Other works

	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ELECTRICAL FIDS SYSTEM BLOCK DIAGRAM	SHEET NO: B0-7500-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE <small>Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS</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: _____	SHEET NO:



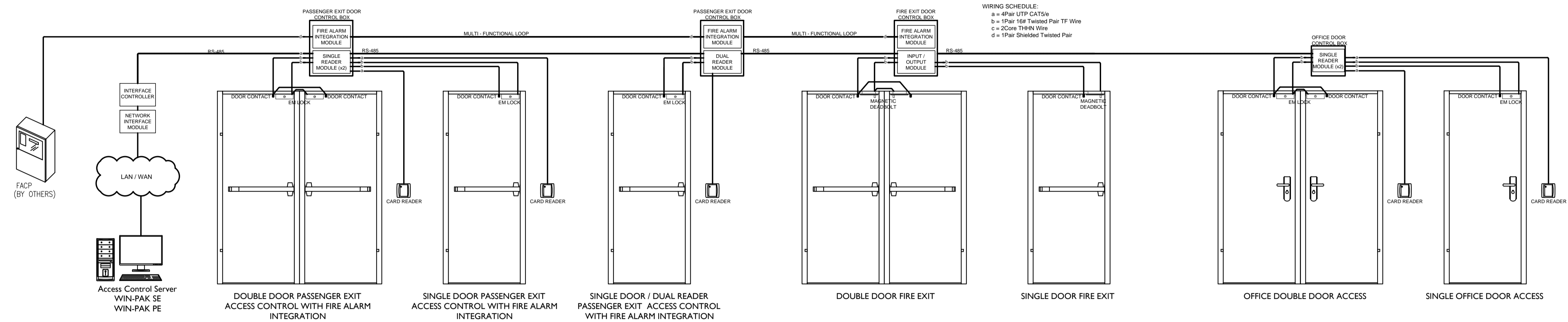
PASSENGER TERMINAL BUILDING (PTB)

POWER HOUSE (PWH)

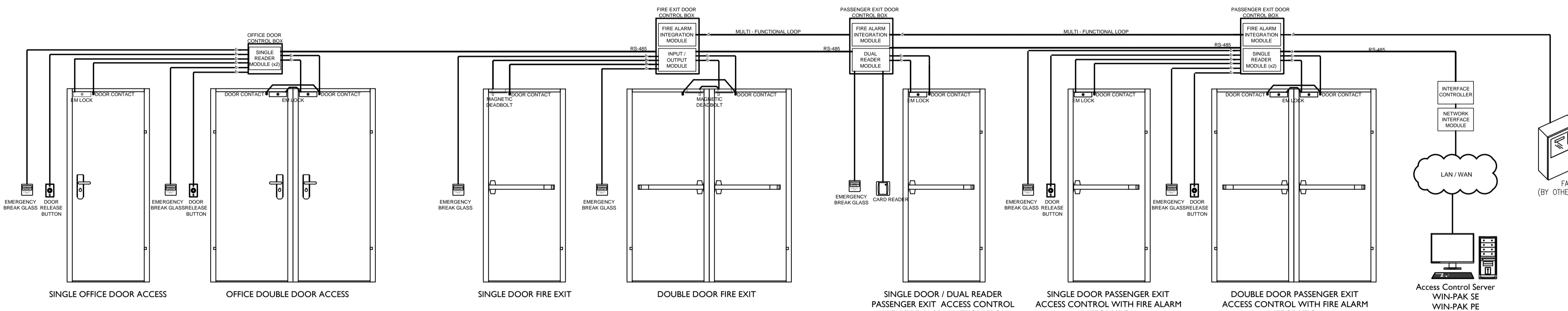
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QUANTIFICATION OF THE FINAL DDC IS
PART OF THE CONTACT/DESIGN.






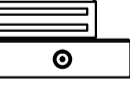

1 BUILDING MANAGEMENT SYSTEM (BMS) BASIC SCHEMATIC DIAGRAM
BO-7600-01 NOT TO SCALE





	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: 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 LOCATION: MUNICIPALITY OF PANGLAO, PROVINCE OF BOHOL, PHILIPPINES	SHEET CONTENTS: COMPONENT-4 BUILDING WORKS (B) SUBCOMPONENT-4-0 (B0) General ELECTRICAL BUILDING MANAGEMENT SYSTEM (BMS) BASIC SCHEMATIC DIAGRAM	SHEET NO: BO-7600-01 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE <small>JAC JAPAN AIRPORT CONSULTANTS, INC. NIPPON KOEI CO., LTD. NIS CONSULTANTS CO., LTD.</small>	JUNE 2013 DATE INDEX AMENDMENTS Prepared by WIM Checked by HC Validated by				



WIRING SCHEDULE:
 a = 4Pair UTP CAT5e
 b = 1Pair 16# Twisted Pair TF Wire
 c = 200# THHN Wire
 d = 1Pair Shielded Twisted Pair

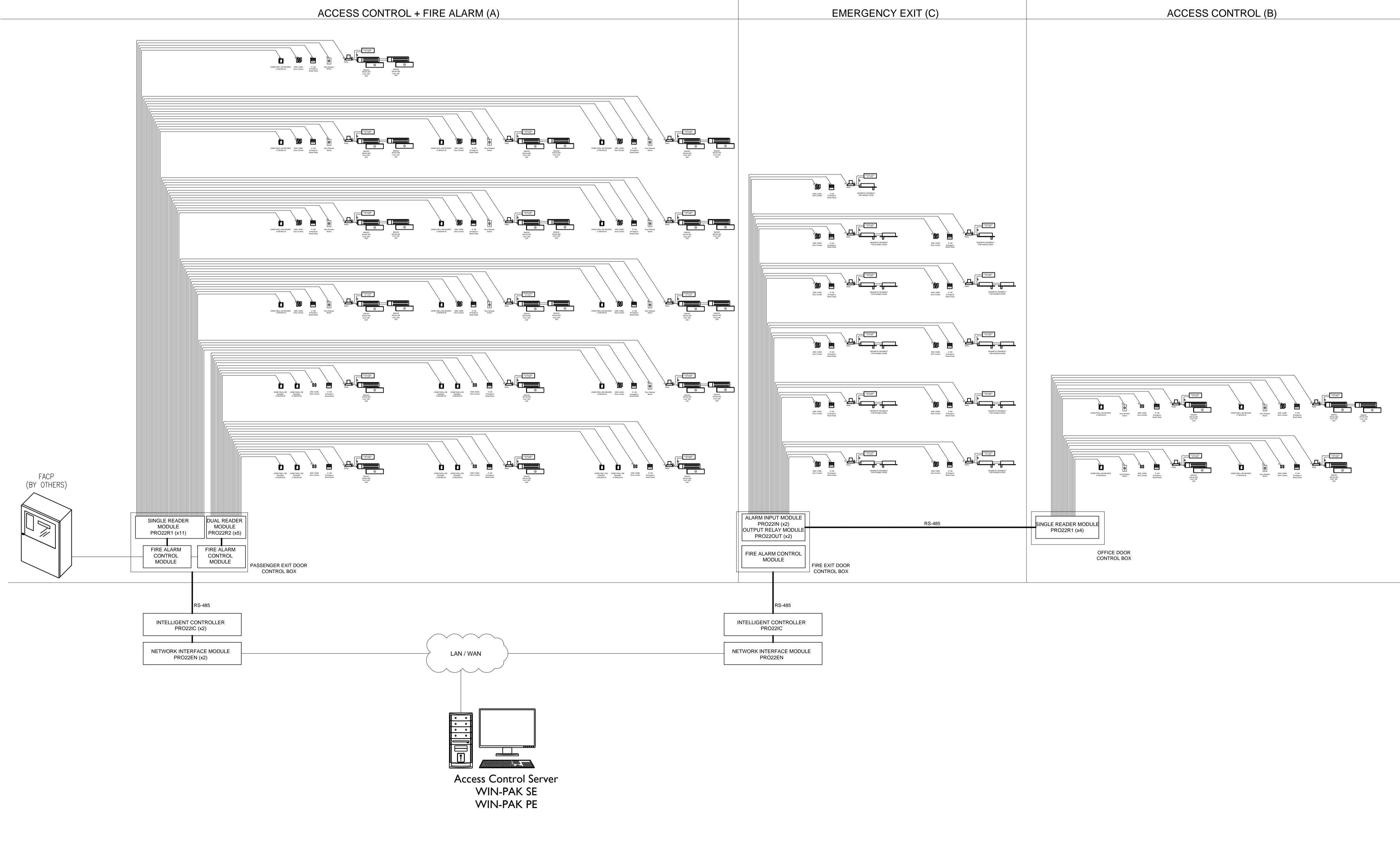


- LEGENDS:**
-  DOOR RELEASE BUTTON
 -  CARD READER
 -  DOUBLE DOOR CONTACT
 -  SINGLE DOOR CONTACT
 -  EMERGENCY BREAK GLASS
 -  EM DOOR LOCK
 -  MOTION SENSOR

 JICA DESIGN CONSULTANT JOINT VENTURE   	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773</small> <small>REG. NO.: 1927 DATE: 1-04-13</small> <small>T.J.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-4-0 (B0) General ACCESS CONTROL SYSTEM SCHEMATIC DIAGRAM1	SHEET NO: B0-7700-01 DRAWING SCALE: AS SHOWN
	JUNE 2013 DATE INDEX AMENDMENTS Prepared by WIM Checked by HC Validated by					

	A	B	C	TOTAL
	5	3	2	10
	11	1	9	21
	21	4		25
	16	4	11	31
	11		4	15
	27	5		32
			20	20

WIRING SCHEDULE:
a = 4Pair UTP CAT5/e
b = 1Pair 16# Twisted Pair TF Wire
c = 2Core THHN Wire
d = 1Pair Shielded Twisted Pair



- LEGENDS:
- DOOR RELEASE BUTTON
 - CARD READER
 - DOUBLE DOOR CONTACT
 - SINGLE DOOR CONTACT
 - EMERGENCY BREAK GLASS
 - EM DOOR LOCK
 - MAGNETIC DEADBOLT

	Republic of the Philippines DEPARTMENT OF TRANSPORTATION AND COMMUNICATIONS	 JAPAN INTERNATIONAL COOPERATION AGENCY	PREPARED BY: TEODORO N. PAMATMAT <small>PROF. ELECTRICAL ENGINEER PIR. 1403773 REG. NO.: 1927 DATE: 1-04-13 T.J.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-4-0 (B0) General ACCESS CONTROL SYSTEM SCHEMATIC DIAGRAM2	SHEET NO: B0-7700-02 DRAWING SCALE: AS SHOWN
	JICA DESIGN CONSULTANT JOINT VENTURE		TADASHI AOI Team Leader		JULIANITO G. BUCAYAN, JR. Undersecretary for Project Implementation, DOTC		DATE: JUNE 2013		WIM HC Prepared by: WIM Checked by: HC Validated by: