SCHEDULE OF BEAM/GIRDER BEAM SECTION LENGTH REMARKS MARK DIMENSION STIRRUPS COUNT MID COUNT RIGHT LEFT COUNT (MILLIMETERS) (METERS) CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY 3-50mm, 3-100mm, 3-150mm. 4.00 SETS 4.00 METERS REST 200mm O.C TO CL. CENTER TO RB-1 200mm×300mm CENTER TIES: # 16 G.I. TIE WIRE 3-50mm, 3-100mm, 3-150mm, REST 200mm O.C TO CL. 6.00 SETS 3.00 METERS CENTER TO VERIFY RB-2 200mm×300mm TIES: # 16 G.I. TIE WIRE (VERIFY ACTUAL) L3 / 4 L₃ / 5 6 TYPICAL DETAIL OF ROOF BEAM 2 3 4 9.00m 3.00m 3.00m 3.63m 6.38m 3.63m CONCRETE CANOPY CONCRETE CANOPY A PROJECT B CONCRETE CANOPY CONCRETE CANOPY 3.63m 5 ROOF BEAM FRAMING PLAN AS SHOWN S-3 S-3 SCALE





REPUBLIC OF THE PHILIPPINES

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD
DRAWN BY:	E.V.B (JANGZ27)
CHECKED BY:	EJDJR /

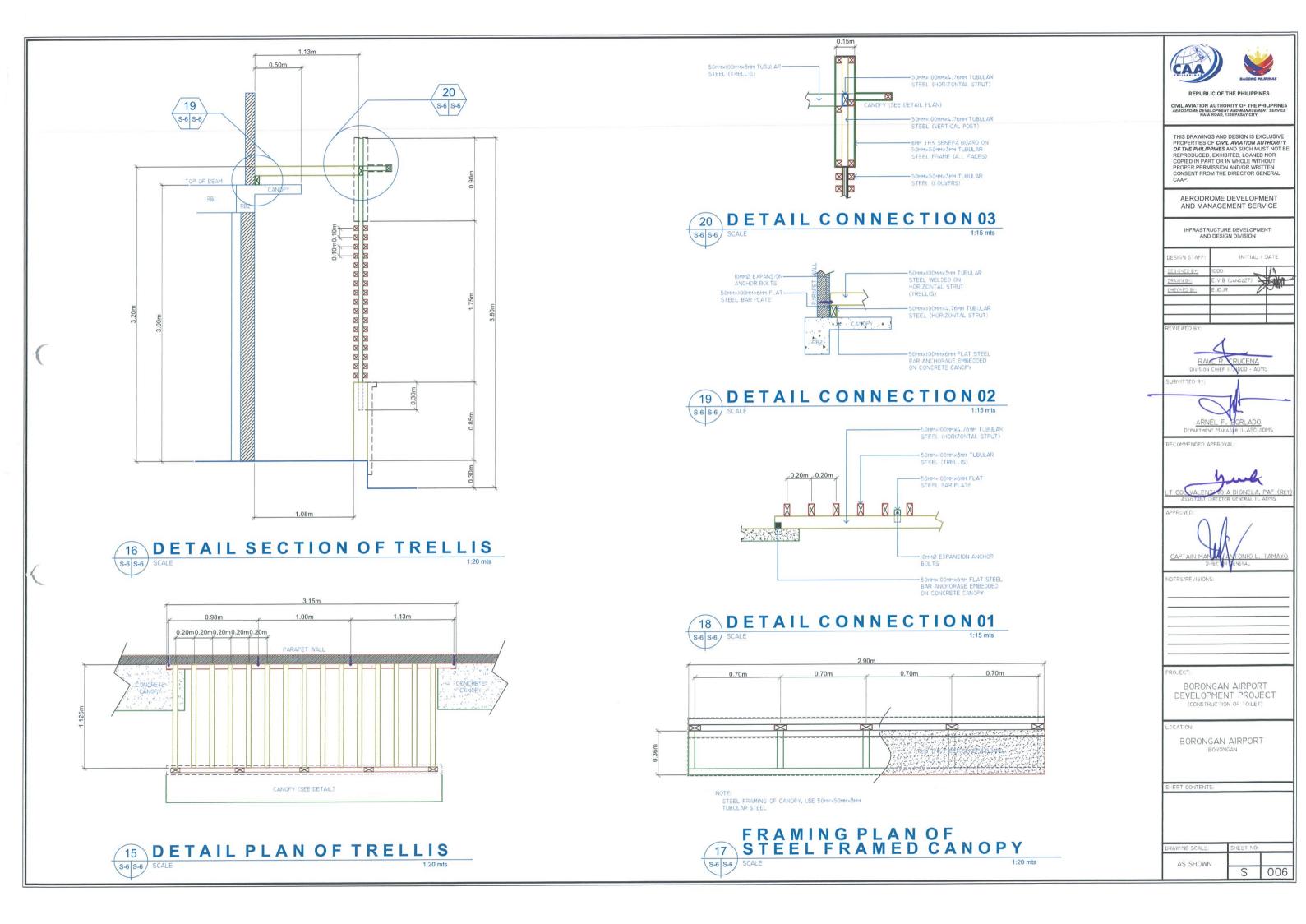


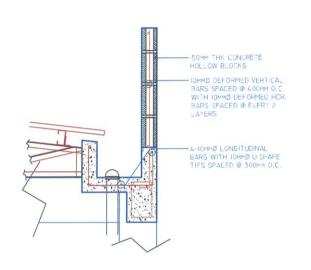
COMMENDED APPROVAL

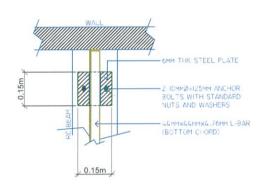
BORONGAN AIRPORT DEVELOPMENT PROJECT

BORONGAN AIRPORT

S 003



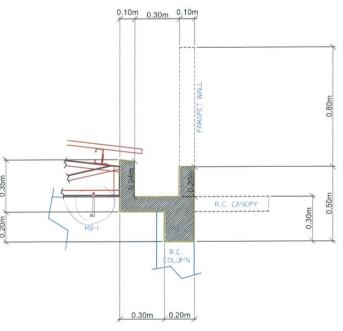




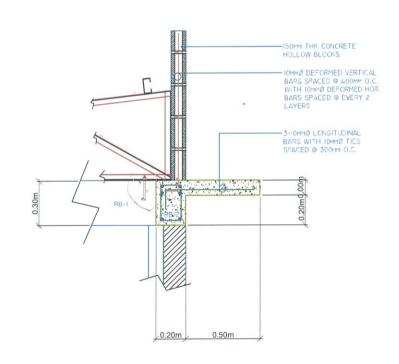
12 DETAIL REINF. OF CONCRETE GUTTER

S-5 S-5 SCALE

14 PLAN OF STEEL BASE PLATE



11 SECTION OF CONCRETE GUTTER S-5 S-5 SCALE



13 DETAIL OF CONCRETE CANOPY S-5 S-5 SCALE





REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED ONG COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	11
DRAWN BY:	E.V.B (JANGZ27)	H
CHECKED BY:	EJDJR	7





COMMENDED APPROVAL:





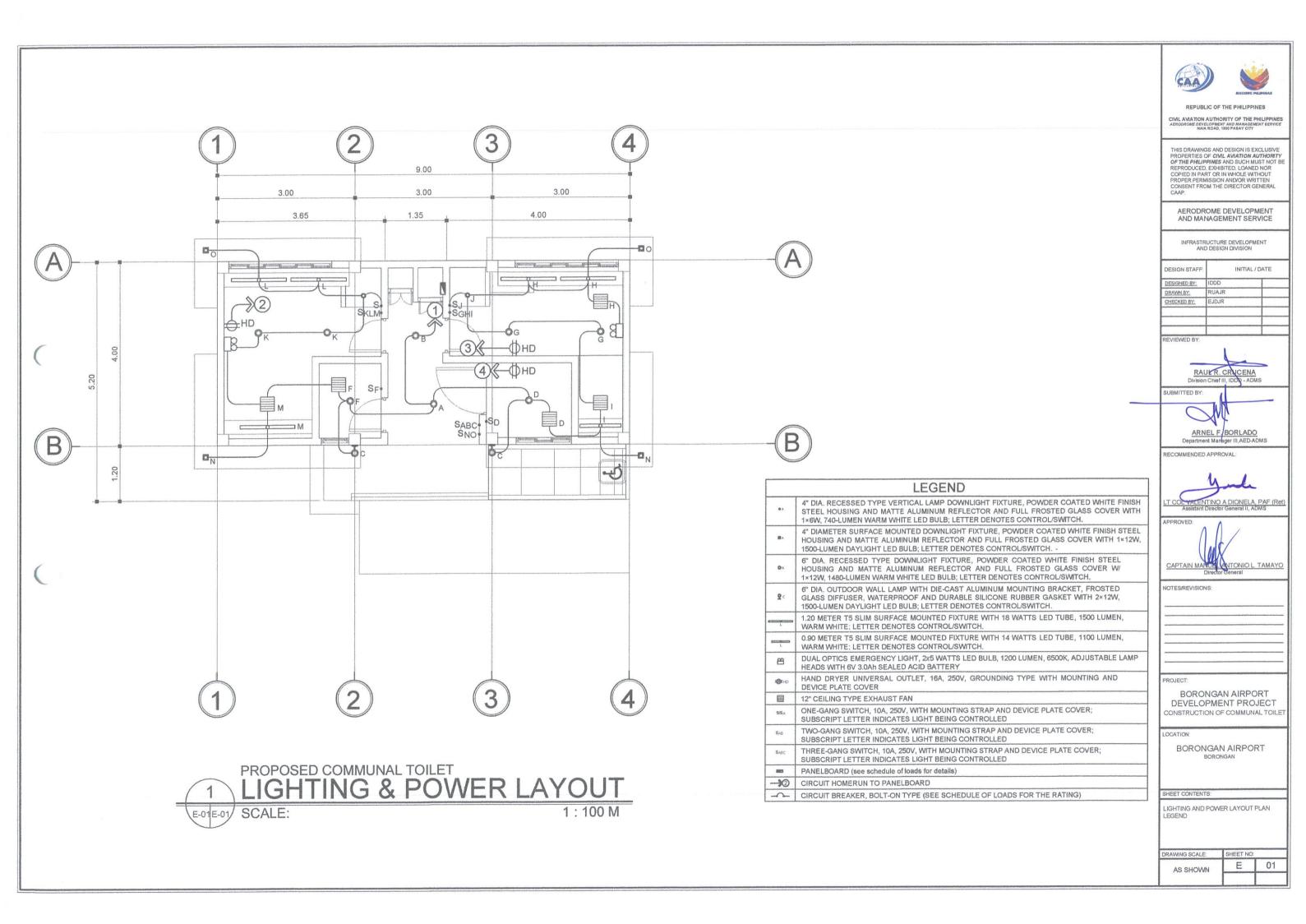
ROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT (CONSTRUCTION OF TOILET)

BORONGAN AIRPORT BORONGAN

DRAWING SCALE:	SHEET NO:	_
AS SHOWN		

S 005



GENERAL NOTES & SPECIFICATIONS:

- ALL ELECTRICAL EQUIPMENT SHALL BE PROPERLY GROUNDED IN ACCORDANCE WITH THE REQUIREMENT OF THE PHILIPPINE ELECTRICAL CODE.
- ALL MATERIALS TO BE USED SHALL BE NEW AND OF THE APPROVED TYPE FOR BOTH LOCATION AND PURPOSE INTENDED.
- 3. WIRES AND CABLES TO BE USED SHALL BE UNDERWRITERS LABORATORY (UL) LISTED.
- MATERIALS AND EQUIPMENT TO BE USED (LIGHTING FIXTURES, BALLAST, FLUORESCENT TUBE, WIRING DEVICES, CIRCUIT BREAKERS, CONDUIT AND PIPES, ENCLOSURES, WIRES AND CABLES, ETC) SHALL HAVE IMPORTED COMMODITY CLEARANCE (ICC) LABEL FOR FOREIGN MADE PRODUCTS AND P.S. MARK FOR LOCAL IN NATURE OF THE BUREAU OF PRODUCT STANDARD (BPS).
- EMERGENCY LIGHTS SHALL BE CONNECTED TO THE NEAREST LIGHTING CIRCUIT PROVIDED WITH SINGLE OUTLET.
- 6. JUNCTION BOXES AND PULL BOXES GAUGE NO. 16 (MINIMUM) SHALL BE PROVIDED BY THE CONTRACTOR WHENEVER REQUIRED AND NECESSARY AND SHALL BE INSTALLED AT CONVENIENT SPACE AND LOCATION TO FACILITATE WIRE PULLING EVEN IF THESE ITEMS ARE NOT SHOWN IN THE PLAN.
- PANEL BOARD SHALL BE FLUSH MOUNTED AND SHALL BE EQUIPPED WITH GROUND KIT TERMINALS WITH NUMBER OF TERMINALS EQUAL TO THE NUMBER OF BRANCH CIRCUITS.
- 8. ALL BRANCH CIRCUIT BREAKER SHALL BE BOLT-ON TYPE WITH 10 KAIC MINIMUM OR AS INDICATED IN THE LOAD SCHEDULE.
- ALL WORKS SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT AND ORDERLY ACCEPTANCE. ALL WIRING SHALL BE CONCEALED AS MUCH AS POSSIBLE.

MOUNTING HEIGHTS:

10100141		
PANELBOARD	1.83 M (6' 0")	FROM TOP OF PANEL TO FINISHED FLOOR LEVEL
HAND DRYER OUTLETS	1.30 M (4' 3")	FROM CENTER OF OUTLET TO FINISHED FLOOR LEVEL
WALL	1.37 M	FROM CENTER OF DEVICE

TO MDP @ PTB
ELECTRICAL ROOM

2 - 8.0mm² THW COPPER WRE
1 - 5.5mm² THW COPPER WRE
IN 25mmØ ELECTRICAL PVC PIPE

MAIN

20 AT

20 AT

3

GROUND TERMINAL



SCHEDULE OF LOADS: PB: 230VOLTS, 1-PHASE, 2WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING/EXHAUST FAN OUTLET	29	230	1450	1	6.30	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE 1-3.5mm² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
2	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE 1-3.5mm² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
3	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE 1-3.5mm² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
4	HAND DRYER OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE 1-3.5mm² THHN/THWN-2 CU WIRE (G)	15mmØ EMT CONDUIT
5	SPARE		230	1200	1	5.22	20AT, 2P		
	ТО	ΓAL				31.08			

 $I_T = 31.08 \times 1.25$ $I_T = 38.85 A$

FOR THE FEEDER CONDUCTOR:

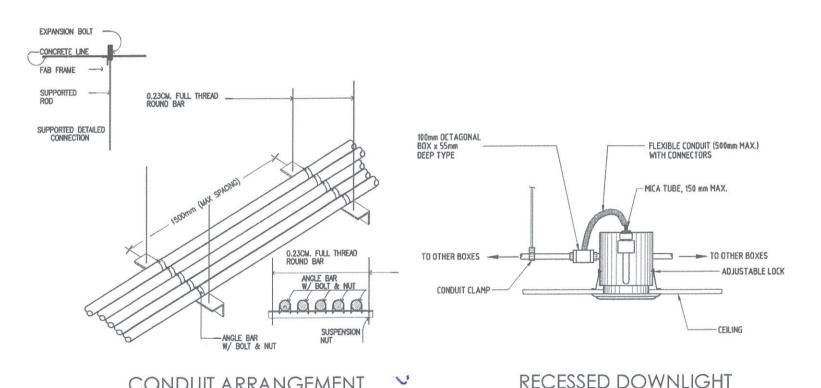
USE: 2 - 8.0mm² THHN/THWN-2 COPPER WIRE 1 - 5.5mm² THHN/THWN-2 COPPER WIRE IN 25mmØ ELECTRICAL PVC PIPE FOR THE FEEDER PROTECTION:

USE: 40AT, 100AF, 2-POLE, 230V, 10KAIC CB

PROPOSED COMMUNAL TOILET

SCHEDULE OF LOADS

E-02/E-02/ SCALE:



CONDUIT ARRANGEMENT

PROPOSED COMMUNAL TOILET
WIRING DETAILS

E-02E-02 SCALE: NTS





REPUBLIC OF THE PHILIPPINE

CIVIL AVIATION AUTHORITY OF THE PHILIPPINE: AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION ANDIOR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT

DESIGNED BY: IDDD DRAWN BY: RUAJR CHECKED BY: EJDJR	DESIGN STAFF:	INITIAL / C	ATE
	DESIGNED BY:	IDDD	T
CHECKED BY: EJDJR	DRAWN BY:	RUAJR	Τ
	CHECKED BY:	EJDJR	T
	Management of the second of th		T
		Contract Con	-

REVIEWED BY



SUBMITTED BY:

ARNEL F BORLADO
Department Manager III, AED-ADMS

RECOMMENDED APPROVAL:



APPROVED:

Clark	
	FONIO L. TAMAYO

NOTES/REVISIONS:

PROJECT

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF COMMUNAL TOILE

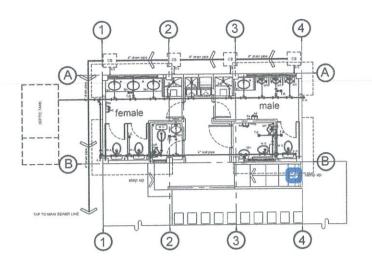
LOCATION

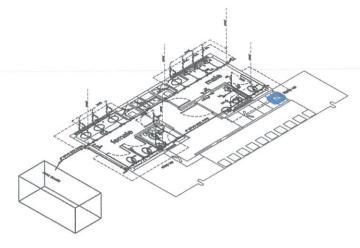
BORONGAN AIRPORT

SHEET CONTENTS:

GENERAL NOTES AND SPECIFICATIONS SCHEDULE OF LOADS SINGLE LINE DIAGRAM WIRING DETAILS

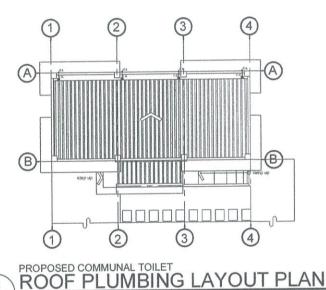
AS SHOWN E 02

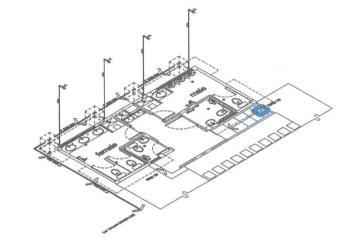




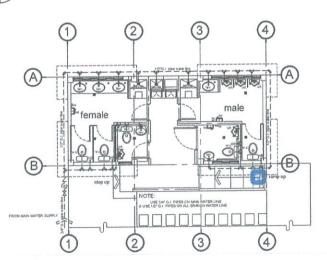
PROPOSED COMMUNAL TOILET GROUND PLUMBING ISOMETRIC PLAN

PROPOSED COMMUNAL TOILET GROUND PLUMBING LAYOUT PLAN

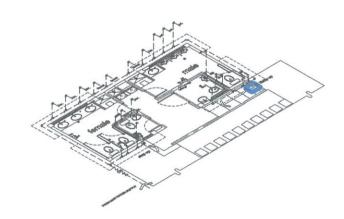




ROOF PLUMBING ISOMETRIC PLAN







WATERLINE ISOMETRIC PLAN

GENERAL NOTES:

- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE; ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE OWNER.
- ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, THE REQUIREMENTS OF OF THE NATIONAL PLUMBING CODE OF THE PRILIPPINES, THE REGULARIANS OF THE LOCAL PLUMBING INSPECTION OFFICE, PERTINENT PROVISIONS OF THE UNIFORM BUILDING CODE AND UNIFORM PLUMBING CODE.
- HORIZONTAL SANITARY SEWER PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AT A MINIMUM SLOPE OF 1% FOR PIPES 100mm@ & LARGER & 2% FOR 75mm@ & SMALLER
- ALL VENT PIPES SHALL BE FREE FROM DROPS OR SAGS AND SHALL BE SLOPED OR GRADED AS TO DRIP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVES.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, THAT IS, THE ACTUAL PIPE SIZES, LOCATIONS, DEPTHS, TOP AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND RELATED STRUCTURES. THE CONTRACTORS SHALL PROVIDE THE NECESSARY EXCAVATIONS, BACKFILLING AND SURFACE RESTORATION OF THE AFFECTED AREAS IN THE LAYING OF SEWER, STORM DRAINAGE AND WATER
- 6. ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.
- THE DIGESTIVE CHAMBER OF SEPTIC TANK MUST BE WATERPROOF.
- NO SEPTIC TANK SHALL BE CONSTRUCTED UNDER THE BUILDING.
- ALL PLUMBING INSTALLATIONS SHALL BE COORDINATED W/LICENSED SANITARY ENGINEER OR REGISTERED MASTER PLUMBER.
- ANY REVISIONS/CHANGES IN THE PLAN SHALL REQUIRE THE PRIOR APPROVAL OF OF THE LICENSED SANITARY ENGINEER OR REGISTERED MASTER PLUMBER.

MATERIAL'S SPECIFICATION:

WATER LINE PIPE

SHALL BE G.I. PIPE OR UPVC PIPE.

- SOIL AND WASTE PIPE - SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR
- APPROVED EQUAL.
 FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

VENT AND VENT STACK

- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED FOLIAL
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

DOWNSPOUT

- SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR APPROVED EQUAL
- FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.

- STORM DRAINAGE SYSTEM
 SHALL BE UPOLYVINYL CHLORIDE (UPVC) PIPE SERIES 1000 II, "EMERALD" BRAND OR
- APPROVED EQUAL
 FITTING SHALL BE SOLVENT CEMENT JOINT CONFORMING TO ASTM D2564.
 FOR OUTSIDE BUILDING, CONCRETE DRAIN PIPE (CDP), TONGUE AND GROOVE, MORTAR JOINTS,
- RE-INFORCED FOR 300mmØ AND LARGER.

PLUMBI	NG LEGENDS
f.d.	FLOOR DRAIN
r.d.	ROOF DRAIN
lav.	LAVATORY
W.C.	WATER CLOSET
vent	FIXTURE VENT
vtc	VENT THRU CEILING
c.o.	CLEAN OUT
d.s.	DOWNSPOUT
uri.	URINAL
-	RAIN WATER DRAIN FLOW
	BRANCH VENT
	SEPTIC TANK

WATER	LINE LEGENDS
lav.	LAVATORY
w.c.	WATER CLOSET
НВ	HOSE BIBB
HD	HAND DRYER
HS	HAND SANITIZER
uri.	URINAL
faucet	FAUCET
	WATER LINE
(W)	WATER METER
-44-	CHECK VALVE
-+4-	GATE VALVE
` }	FROM MAIN WATER LINE





REPUBLIC OF THE PHILIPPINES AVIATION AUTHORITY OF THE PHILIPPINES DROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BY REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	1
DRAWN BY:	E.V.B (jangz27)	10
CHECKED BY:	EJDJR /	1





ECOMMENDED APPROVAL:

ONIO L. TAMAYO

IOTES/REVISIONS

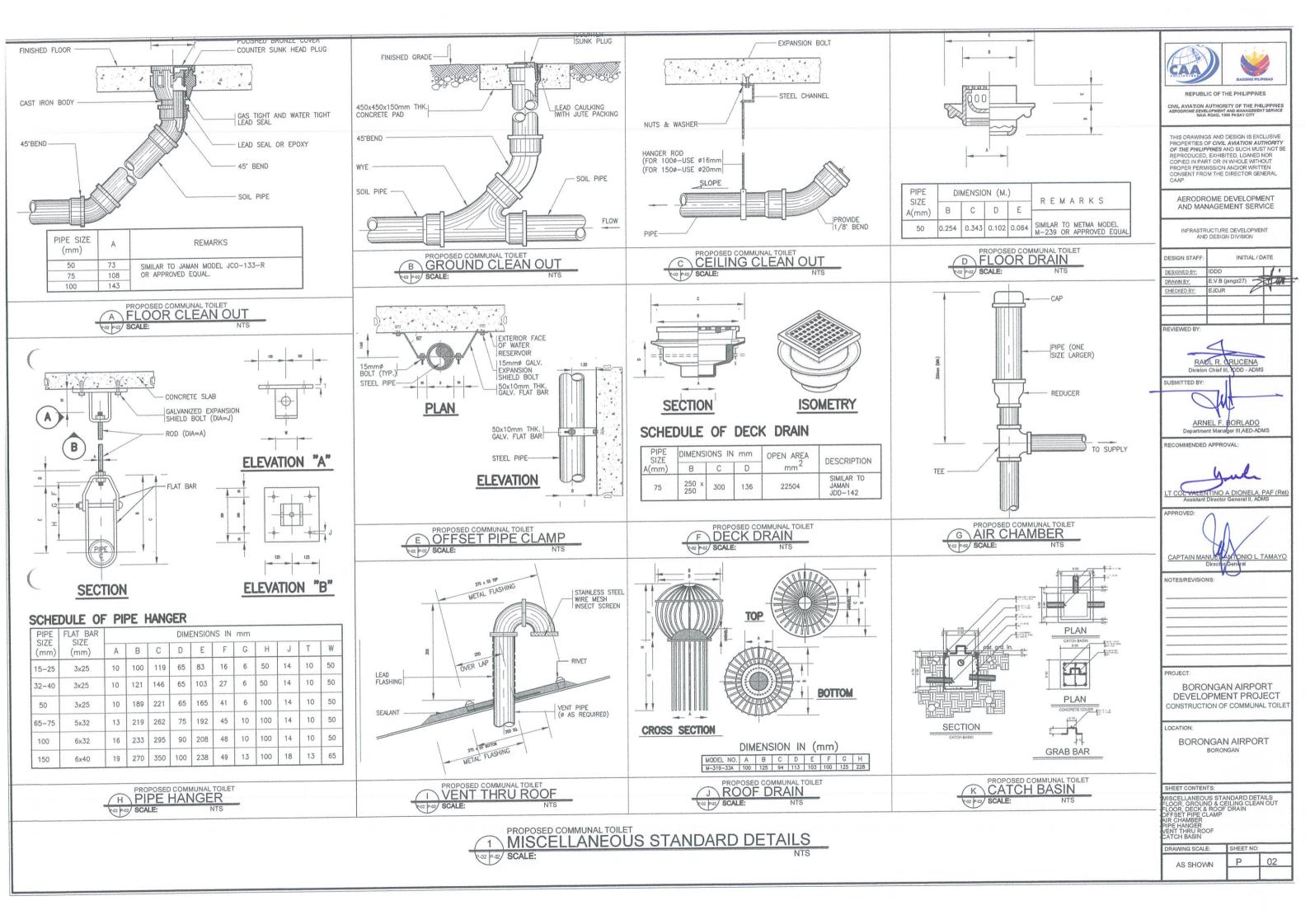
PROJECT

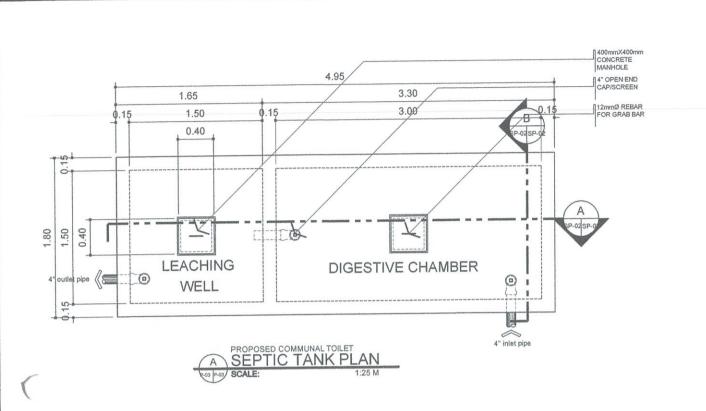
BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF COMMUNAL TOILE

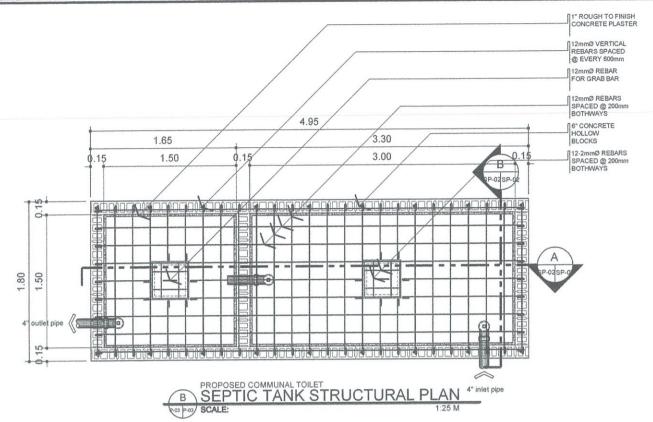
BORONGAN AIRPORT BORONGAN

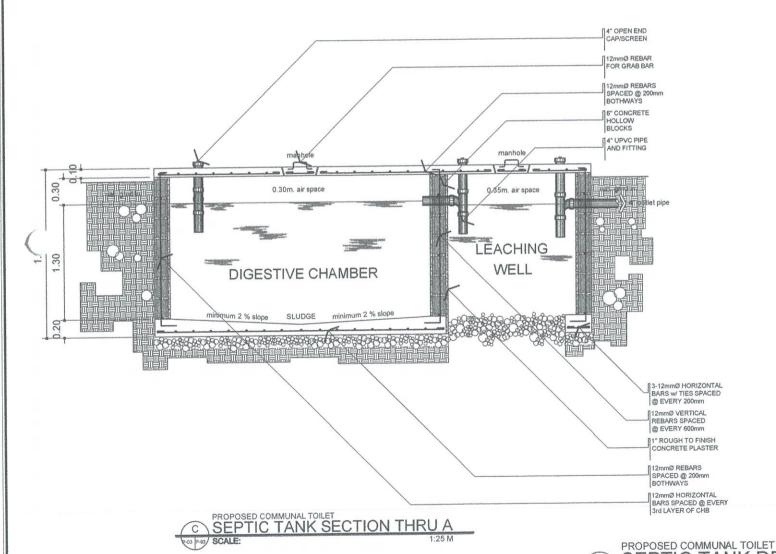
SHEET CONTENTS:

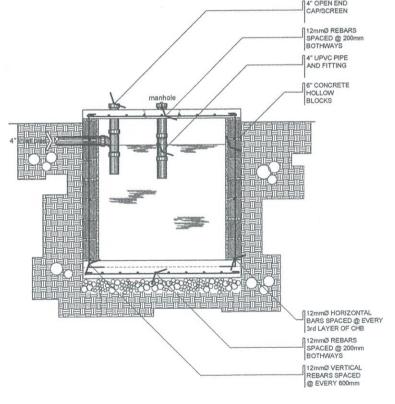
RAWING SCALE: AS SHOWN

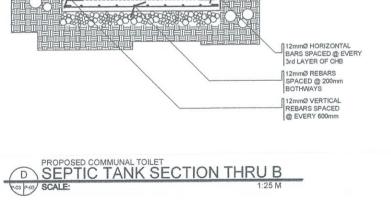












SEPTIC TANK DETAILS

SP-02SP-02 SCALE:





THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	70
CHECKED BY:	EJDJR /	7



SUBMITTED BY:



RECOMMENDED APPROVAL





NOTES/REVISIONS:

	-	-
		0.000

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF COMMUNAL TOILET

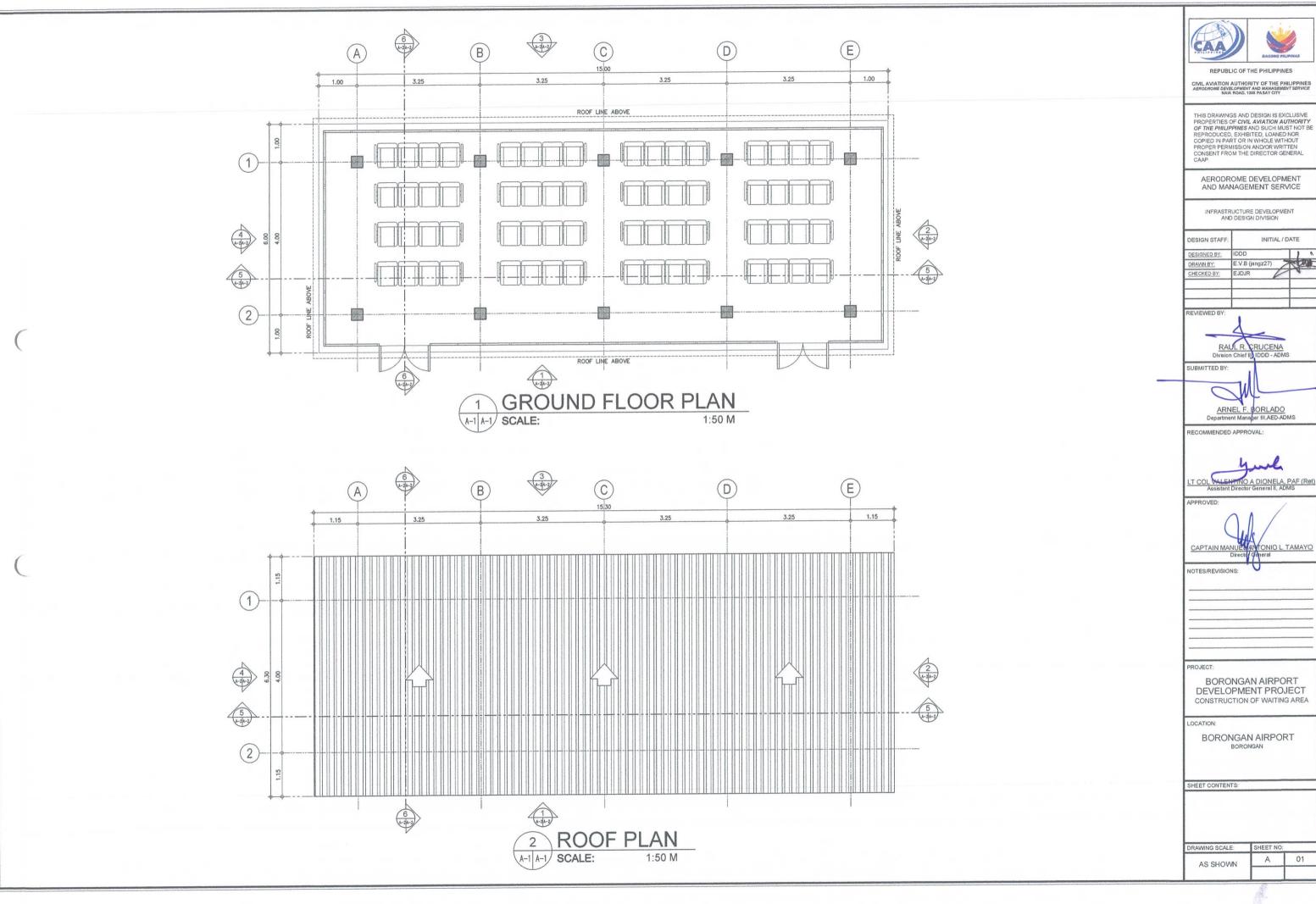
LOCATION:

BORONGAN AIRPORT BORONGAN

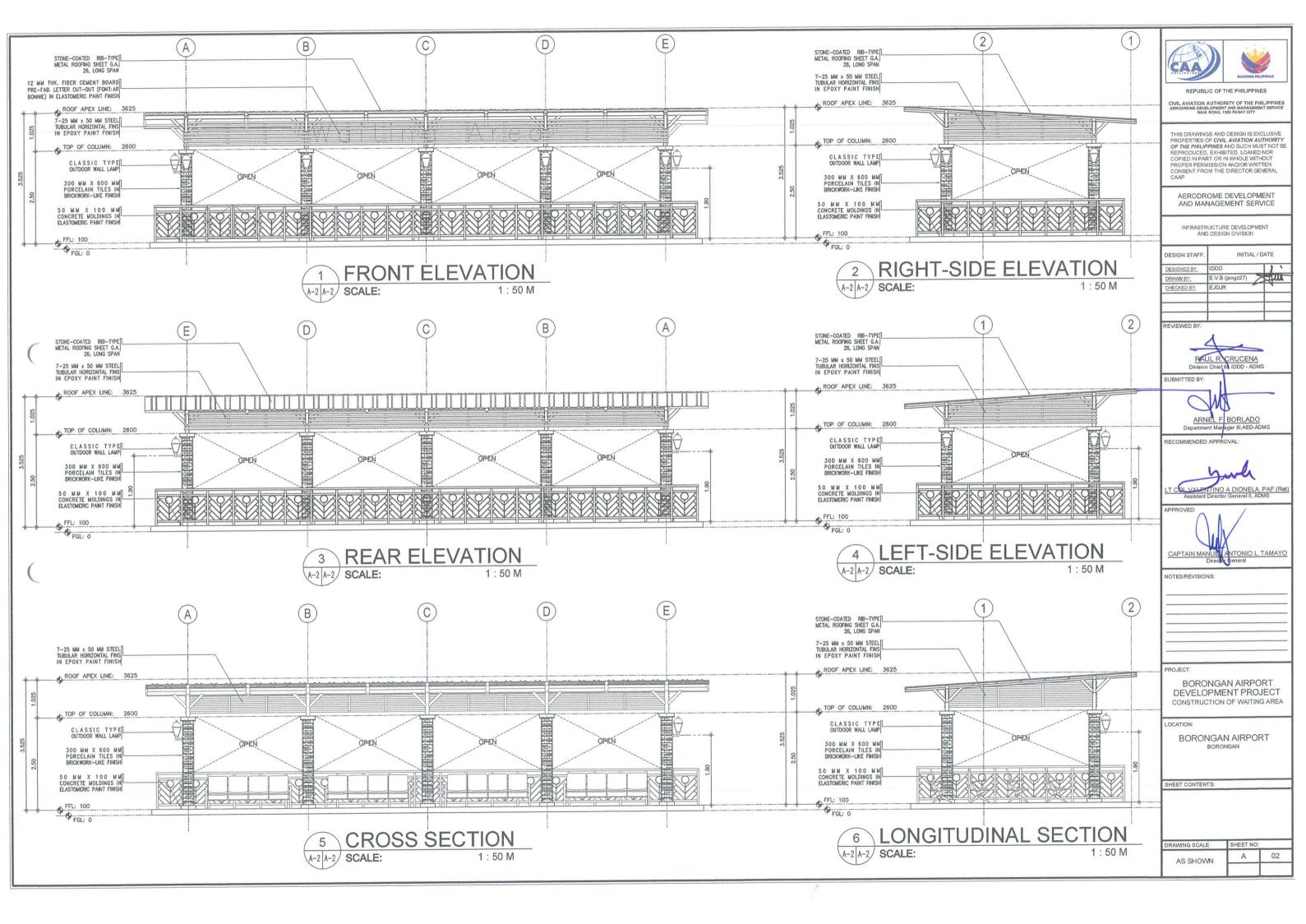
SHEET CONTENTS:

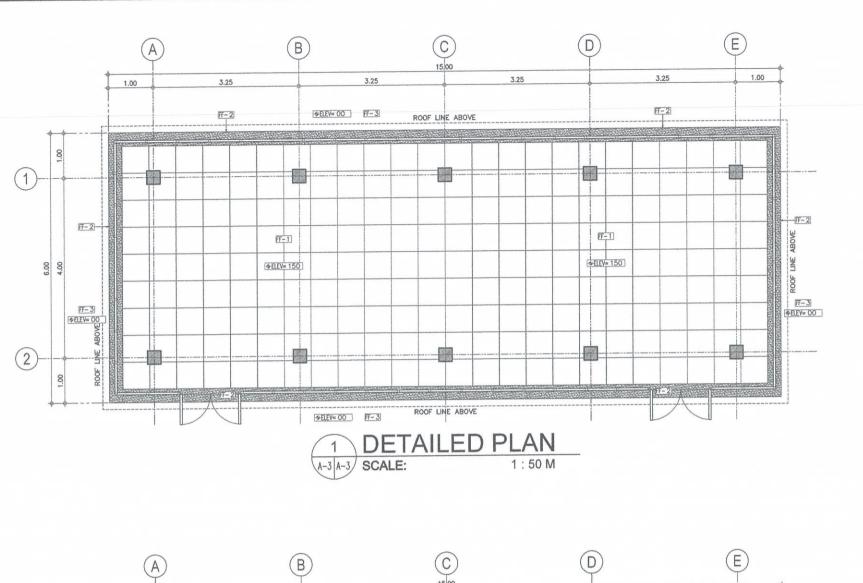
SEPTIC TANK DETAILS SEPTIC TANK PLAN SEPTIC TANK STRUCTURAL PLAN SEPTIC TANK SECTION THRU AA SEPTIC TANK SECTION THRU BB

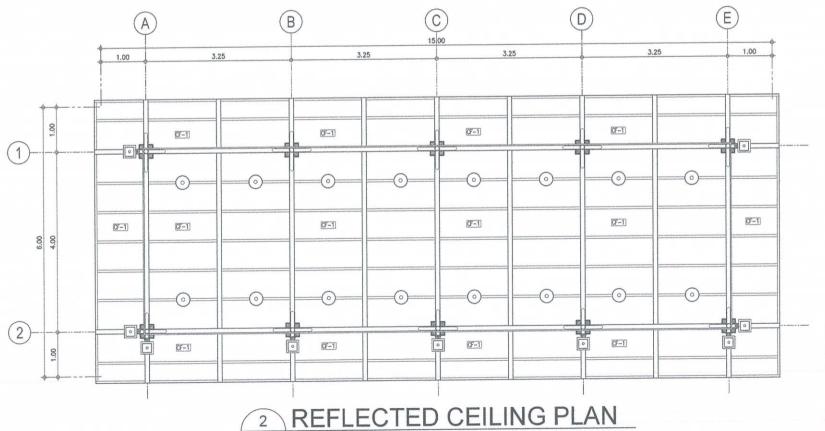
DRAWING SCALE: SHEET NO: 03 P AS SHOWN



DESIGNED BY:	IDDD	1
DRAWN BY:	E.V.B (jangz27)	木
CHECKED BY:	EJDJR /	1







1:50 M

CAA

BAGONG PI

REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGN STAFF:	INITIAL / I	DATE
DESIGNED BY:	IDDD	111
DRAWN BY	E.V.B (jangz27)	1
CHECKED BY:	EJDJR	

REVIEWED BY

RAUL R. CRUCENA

SUBMITTED BY:

ARNEL F. BORLADO
Department Manager III.AED-ADMS

RECOMMENDED APPROVAL:

LT COL VALENTINO A DIONELA, PAF (Re

APPROVED:

TAIN MANUEL ANTONIO L. TAMAYO

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA

LOCATION:

BORONGAN AIRPORT BORONGAN

SHEET CONTENTS:

 DRAWING SCALE:
 SHEET NO:

 AS SHOWN
 A
 03

TAG FLOOR FINISHES

FF-1 600 MM X 600 MM HOMOGENEOUS PORCELAIN OUTDOOR FLOOR TILES IN RUSTIC FINISH

FF-2 PEBBLE WASHOUT FINISH

FF-3 EXISTING CONCRETE PAVEMENT

0

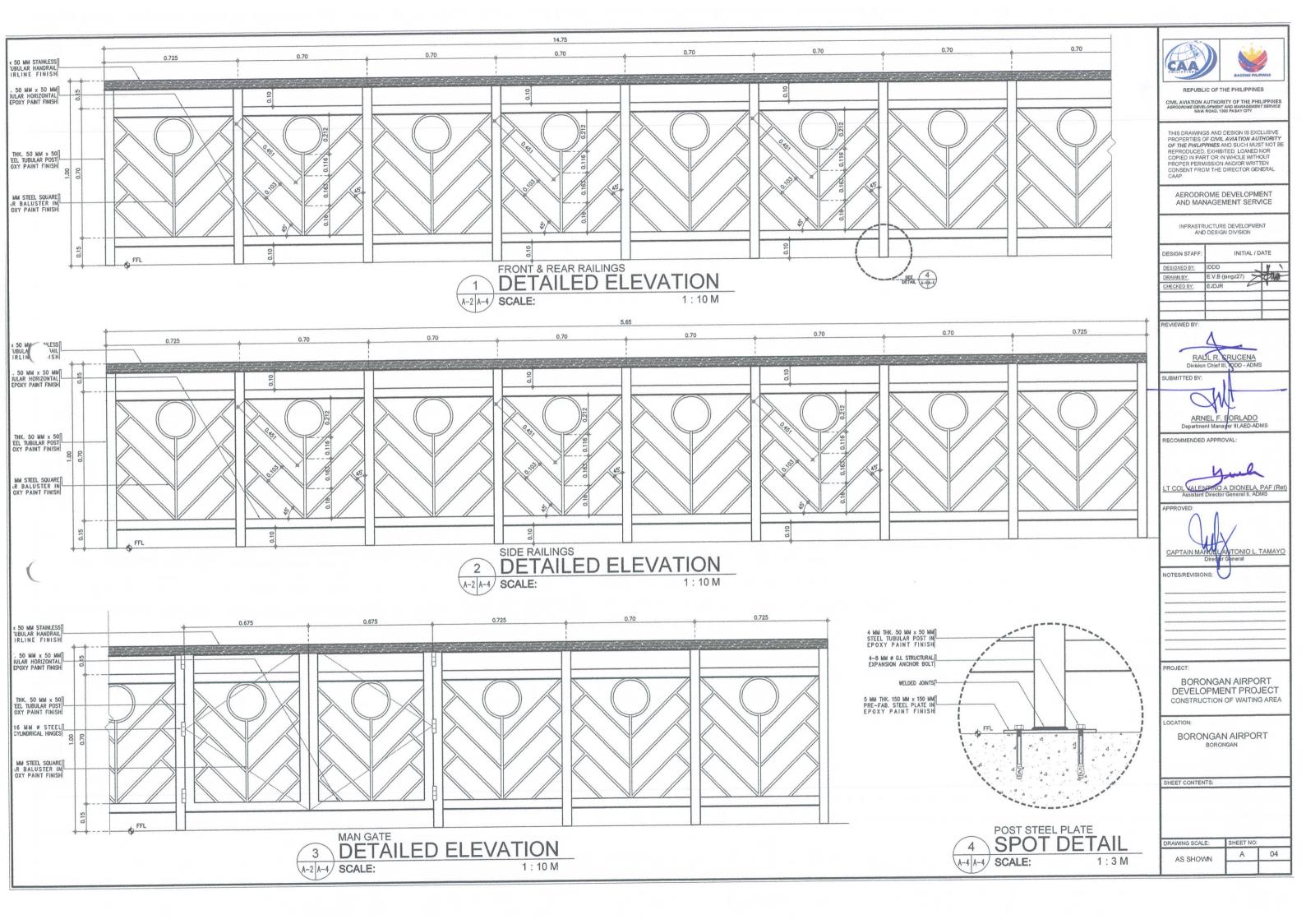
TAG CEILING FINISHES

CF-1 DOUBLE SIDED P.E. ROOF INSULATION ON HEXAGONAL WIRE MESH

WITH PARTIAL FROSTED GLASS COVER
CLASSIC TYPE OUTDOOR WALL LAMP

LEGEND

300 MM Ø SUSPENDED LIGHT ON POLYCARBONATE HALF DOME REFLECTOR



CONSTRUCTION NOTES:

1.0 GENERAL NOTES:

- 1.1 The Contractor shall verify all dimensions and conditions at the site, and shall notify the Engineer of discrepancies between actual conditions and information shown on the drawings before proceeding with the work. This shall include the location and dimensions of grooves, reglets, sleeves, curbs, openings, embedded or attach items, etc. Refer to Architectural, Mechanical, Electrical and Plumbing Drawings.
- 1.2 All dimensions shall take precedence over scale shown on plans, sections or details. Notes and details on drawings shall take precedence over general notes and typical details.
- 1.3 The Contract, Structural Drawings and Specifications represent the finished structures. They do not indicate the method of construction unless so stated. The Contractor shall provide all necessary measures to protect the structures, adjacent properties, workmen and other persons during all phases of construction.
- 1.4 The Contractor shall immediately notify the Owner and/ or the Project In—charge of any condition which in his opinion might endanger the stability of the structures or cause distress in the structures.
- 1.5 Construction materials shall not be stored on poured floors. It is the General Contractor responsibility to ensure that the Sub-Contractor's are informed and do not violate this important requirements.
- 1.6 The Contractor shall provide temporary erection bracing and shoring for all the structural members as required for structural stability during all phases of construction.
- 1.7 The Contractor shall take all steps necessary to ensure the proper alignment of the structures after the installation of all structural and finish materials.

2.0 MATERIAL SPECIFICATION:

- 2.1 Mix Design shall conform to ACI 211.1 & ACI 301. The minimum compressive strength shall be: $Fc'=24.00\,\text{Mpa}$ (3,500 Psi) Foundations, Columns Beams and Suspended Slabs.
 - Fc' = 24.00 Mpa (3,500 Psi) Slab on fill, Graded Slabs.
- 2.2 Cement for the concrete shall conform to the requirements of the "Specifications for the Portland Cement" (ASTM C150, Latest Edition).

Fine Aggregates: Shall consist of natural porac sand. Fine aggregates shall consist of hard, tough, durable, uncoated particles. The stipulated percentage of fines in the sand shall be obtained either by the processing of natural sand or by the production of a suitably graded manufactured sand.

Coarse Aggregates: Shall consist of gravel, crushed gravel or rock, or a combination of gravel and crushed gravel or rock, as per approved by the Structural Engineer. The coarse aggregate, as delivered to the site shall have a uniform and suitable moisture content.

Footings ----- 1" or %" (25mm or 19mm)
R.C. Beams, Columns, Slabs, Wall Footings, Lintel Beams ----- %" (19mm)

- 2.3 Water used in mixing concrete shall be clean and free from injurious amounts of oils, acids, salts, alkalis, organic materials or other substances deleterious to concrete or steel.
- 2.4 Admixtures to be used in concrete shall be subjected to prior approval of the Structural Engineer.
- 2.5 The concrete slab on fill shall be laid on a prepared foundation consisting of a sub grade and granular fill with thickness of overlying slab except as indicated otherwise, sub grade shall be rolled, rammed and tamped to a thoroughly compacted foundation.
- 2.6 All concrete shall deposited, vibrated and cured in accordance with ACI Standard 318-95.
- 2.7 Concrete cover over reinforcing bars shall be as follows:

Footings and bottom of Footing Tie Beams ----- 75mm (cast against earth)
Beams and Columns ----- 40mm (to stirrups and ties)
Walls and Sides of Footing tie Beams ----- 50mm (cast against forms)
Equipment Foundation ----- 70mm

- 2.8 Before concrete is poured, checked with all trades to ensure proper placement of all openings, sleeves, curbs, conduits, etc. relative to the work.
- 2.9 Unless otherwise specified on plans, all reinforcing bars shall be deformed conforming to ASTM A706 with a minimum yield strength of reinforcement shall be enumerated below:

Footings/ footing Tie Beams ----- Fy = 60,000 Psi Columns/ Beams ----- Fy = 60,000 Psi Slabs (On grade and suspended) ----- Fy = 40,000 Psi

- 2.10 All reinforcing bars shall be clean of rust, grease or other materials which tend to impair bond.
- 2.11 Unless otherwise noted in the plans or specifications, Camber all R.C. Beams at least 6mm for every 4.5m of span except cantilevers which shall 18mm for every 3m of span. If there are two (2) or more layers of reinforcing bars, use 25mm diameter separators spaced at 900mm o.c., Top bars splices shall be located at midspan and both bar splices at column supports.
- 2.12 All reinforcing bars shall be accurately and securely placed before pouring concrete or applying mortar or grout.
- 2.13 Unless indicated otherwise, all beams terminating at the column shall have top and bottom bars extending to the far face of the column terminating in a standard 90 degrees hook length of anchorage not less than 600mm.
- 2.14 Lapped splices shall be staggered where possible.
- 2.15 Unless indicated otherwise, splicing of reinforcement shall be in accordance with ACI 318—95, Except that the minimum lap splice shall be 40 bar diameter but less than 600mm.
- 2.16 Vertical and Horizontal reinforcements for CHB shall be 10mm Ø at 600mm for all wall thickness. Lap splices shall be 300mm long (minimum).
- 2.17 Where CHB walls adjoin columns and beams, provide dowels on r.c. columns and beams prior to pouring to match CHB wall reinforcement. The dowels shall be 12mm bars at 400mm o.c., unless otherwise shown on the drawings.
- 2.18 Where columns and beams have been poured without the CHB wall dowels, provide 16mm Ø expansion bolts at 400mm o.c. These anchors shall be drilled and hammered in place. No chipping off of concrete columns and beams is allowed unless otherwise permitted by the Structural Engineer.
- 2.19 Welding electrodes and rods, conformed to AWS D1.1.

 Lap welded splice when used, shall develop a resistance equal to at least 125% of the tensile capacity of the bar being spliced.

 Butt welded splice when used, shall be considered 75% efficient. The remaining 50% capacity to develop 125% of the tensile capacity of the bar shall be provided for by an additional welded lap splice connection on the same joint.

Details of all welded splices shall be submitted by the contractor for approval by the Structural Engineer. Only certified welders shall be allowed to perform welding operations. These welders shall subject to the approval of the Project Manager.

2.20 Shop paint structural steel, except as modified herein. Do not Paint steel surfaces embedded in concrete, galvanized surfaces, or surfaces within ½" of the toe of the welds prior to welding. Prior to assembly, paint surfaces which will be concealed or inaccessible after assembly. Do not paint in foggy or rainy weather; when the ambient temperature is below 45 deg F or over 95 deg F; or when paint may be exposed to temperatures below 40 deg F within 48 hours after application, unless approved otherwise.

SSPC SP 6, Except as modified herein. SSPC SP 3 or SP 6 for steel surfaces exposed in spaces above ceilings, attic spaces, crawl spaces, furred spaces and chases. In addition, maintain steel surfaces free from rust, dirt, oil, grease and other contaminants through final assembly.

Immediately after cleaning, provide the metal surfaces with one coat of MIL SPEC DOD - P - 15328 pretreatment to a dry film thickness of 0.3 to 0.5 MIL FED SPEC TT - C - 490 pretreatment may be applied to SSPC SP 6 cleaned surfaces in accordance with FED SPEC TT - C - 490.

Immediately after the pretreatment coating has dried, apply primer to a minimum dry film thickness of 2.0 MIL. Repair damaged primed surfaces with an additional coat primer.





REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIR ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVAITON AUTHORTY OF THE PHILIPPINES AND SUCH MUST NOT B REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAMP.

AERODROME DEVELOPMENT

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	
DRAWN BY:	E.V.B (jangz27)	3
CHECKED BY:	EJDJR	V

REVIEWED BY:

RAUL R. CRUCENA
Division Chief III, IDDD - ADMS

ARNEL F. BORLADO
Department Manager III,AED-ADMS

RECOMMENDED APPROVAL:



APPROVED:



OTES/REVISIONS:

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA

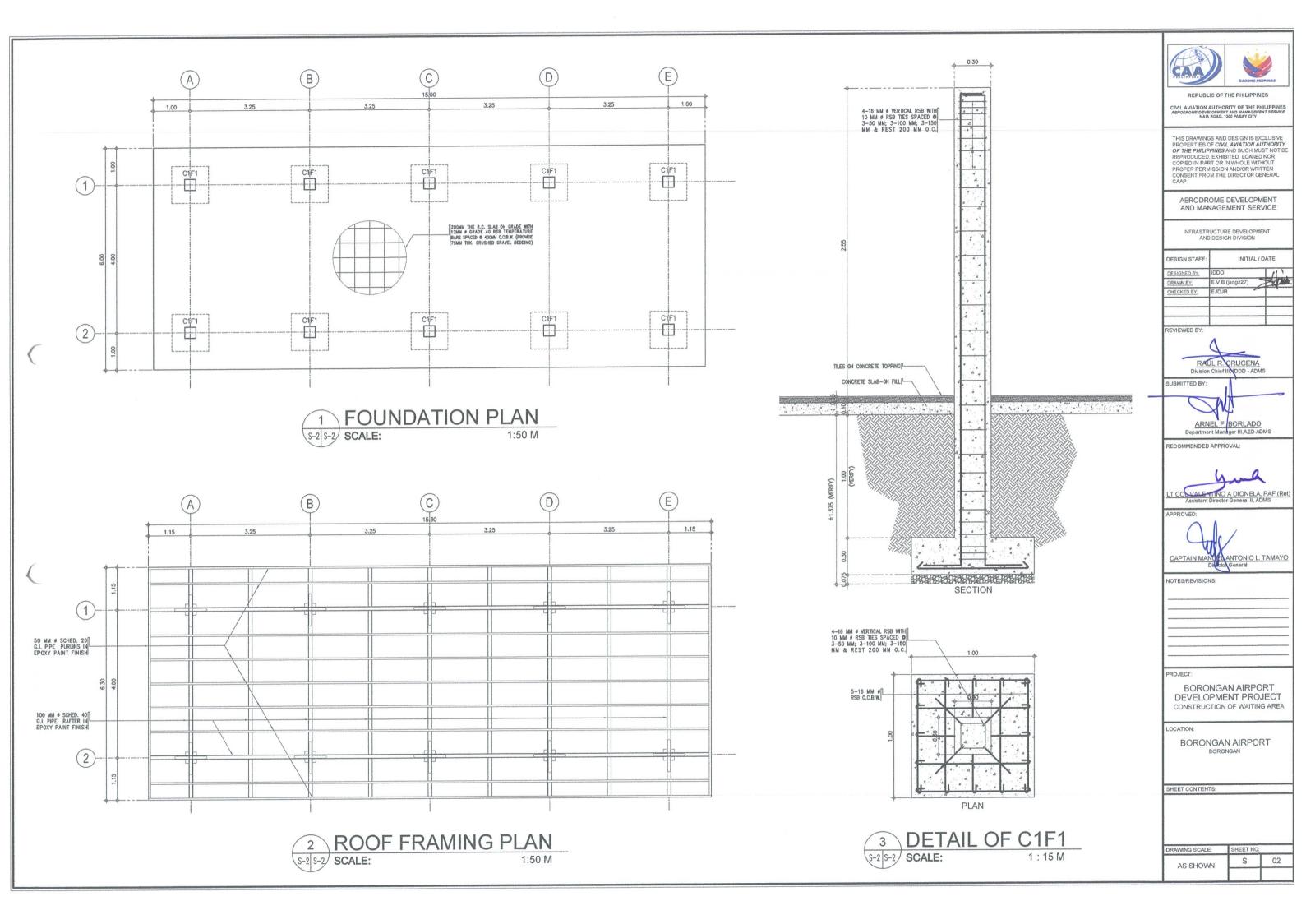
LOCATION:

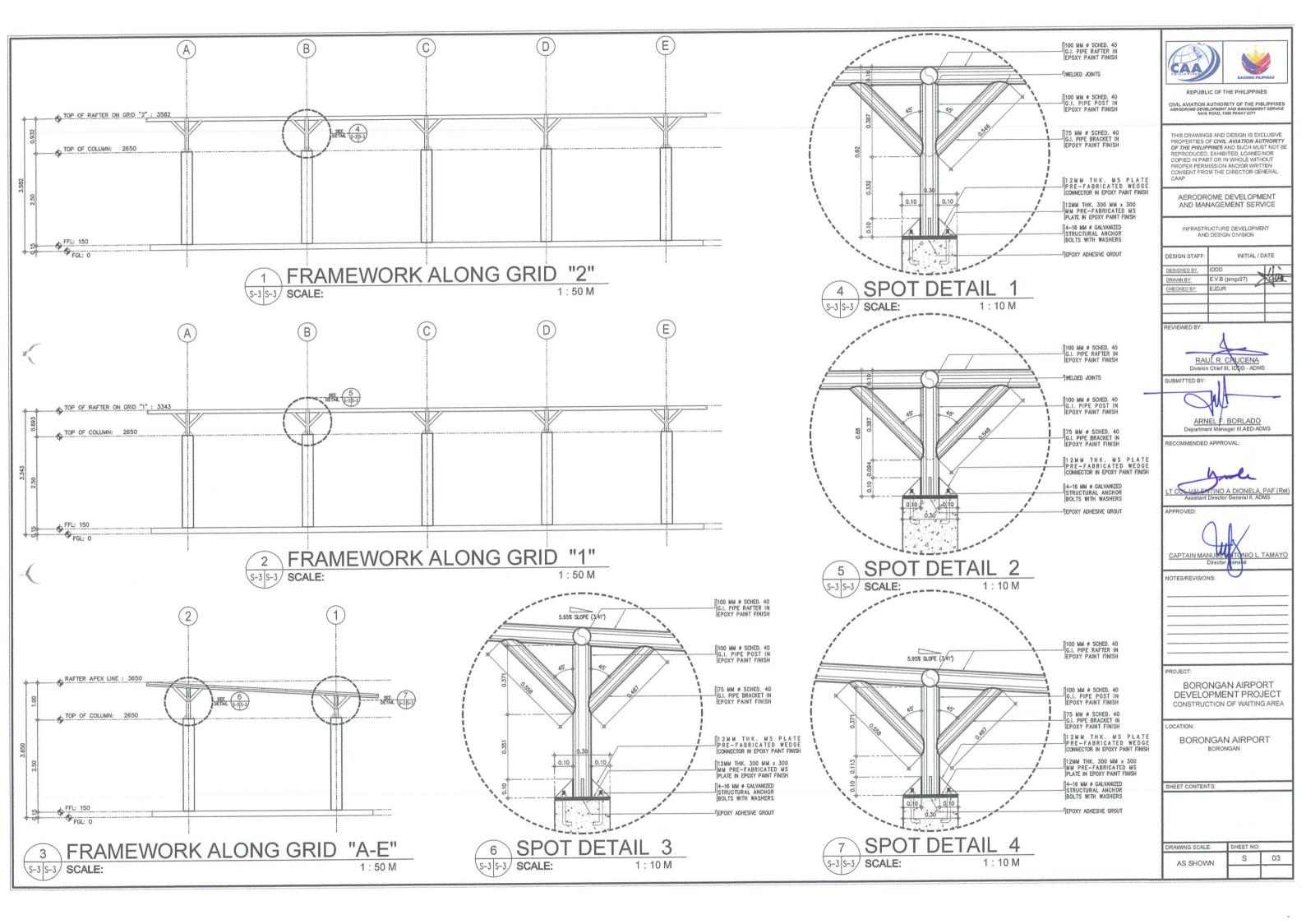
BORONGAN AIRPORT BORONGAN

SHEET CONTENTS:

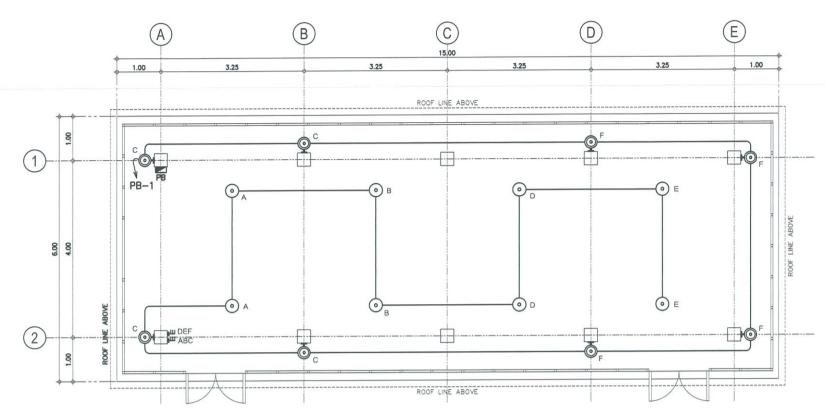
DRAWING SCALE: SHEET NO:

AS SHOWN S 01

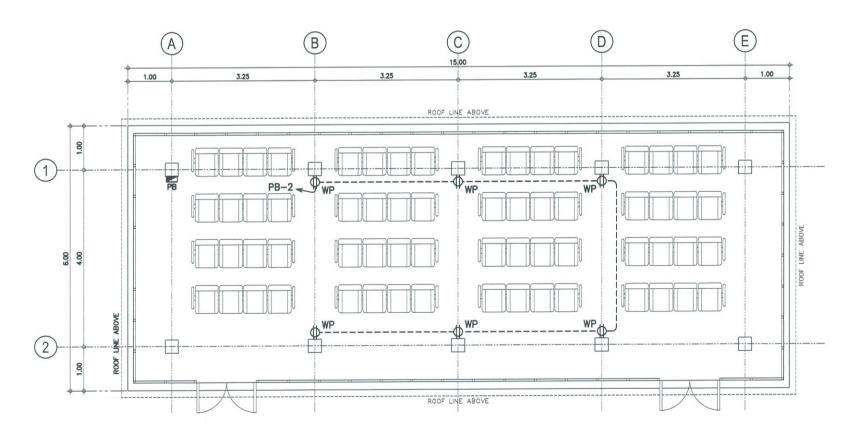




LEGEND					
SYMBOL	DESCRIPTION				
o	22 WATTS E27 LED FLAT LAMP				
©	18 WATTS LED WEATHERPROOF WALL LIGHT				
⇔ WP	WEATHERPROOF DUPLEX UNIVERSAL OUTLET W/ GROUND, 16AMP				
3	THREE-GANG SWITCH, 16AMP, WIDE SERIES				
	PANEL BOARD				



1 LIGHTING LAYOUT PLAN
E-1 E-1 SCALE:



POWER LAYOUT PLAN

SCALE:





REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED. EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	
DRAWN BY:	RUAJR	
CHECKED BY:	EJDJR	



ARNEL F BORLADO
Department Manager III, AED-ADM

RECOMMENDED APPROVAL:



CAPTAIN MANUA

NOTES/REVISIONS:

PROJECT:

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA

OCATION:

BORONGAN AIRPORT

- LEGENDS
 LIGHTING LAYOUT PLAN
 POWER LAYOUT PLAN

DRAWING SCALE: SHEET NO E AS SHOWN

SCHEDULE OF LOADS: PB: 230VOLTS, 1-PHASE, 2WIRE + G

CKT. No.	LOAD DESCRIPTION	NO. OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	16	230	480	1	2.09	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE + 1-3.5mm² THHN/THWN-2 CU WIRE (G)	20mmØ EMT PIPE
2	CONVENIENCE OUTLET	6	230	1080	1	4.70	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE + 1-3.5mm² THHN/THWN-2 CU WIRE (G)	20mmØ EMT PIPE
3	SPARE		230	1000	1	4.35	20AT, 2P		
	тот	AL	A., a			11.14			

 $I_T = 11.14 \times 1.25$

 $I_T = 13.93 A$

FOR THE FEEDER CONDUCTOR:

USE: 2 - 5.5mm² THHN/THWN-2 COPPER WIRE

1 - 5.5mm² THHN/THWN-2 COPPER WIRE (G)

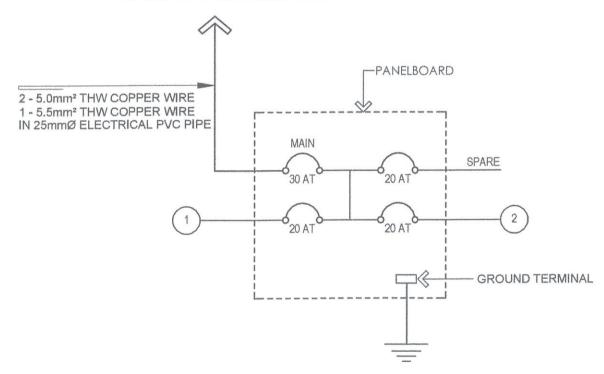
IN 25mm ELECTRICAL PVC PIPE

FOR THE FEEDER PROTECTION:

USE: 30AT, 100AF, 2-POLE, 230V, 10KAIC CB



TO MDP @ PTB ELECTRICAL ROOM









REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINE
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
MAIA BOAD 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AWATION AUTHORIT OF THE PHILIPPINES AND SUCH MUST NOT REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	
DRAWN BY:	RUAJR	
CHECKED BY:	EJDJR	

REVIEWED BY:



SUBMITTED BY:

ARNEL F. BORLADO

RECOMMENDED APPROVAL:



ADDROVED



NOTES/REVISIONS:

BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF WAITING AREA

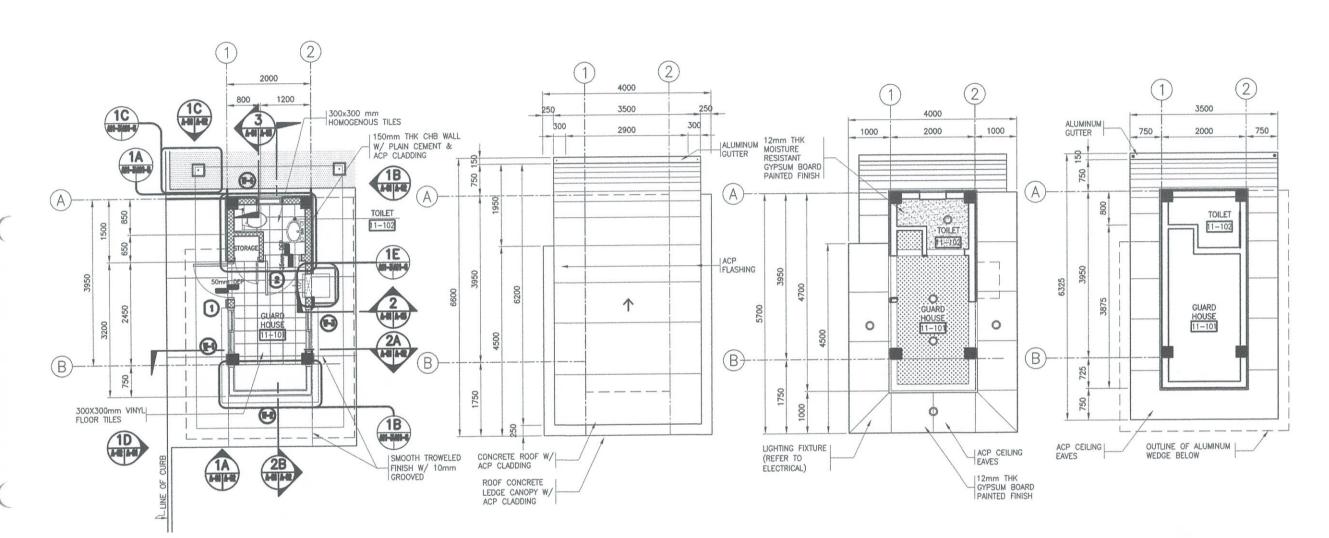
LOCATIO

BORONGAN AIRPORT BORONGAN

SHEET CONTENTS:

SCHEDULE OF LOADS
 SINGLE LINE DIAGRAM

DRAWING SCALE:	SHEET NO	-
AS SHOWN	E	02















CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

IDDD	11 1
E.V.B (jangz27)	TOWAR .
EJDJR	7
	E.V.B (jangz27)

RAULIR. CRUCENA Division Chief III, INDD - ADMS



RECOMMENDED APPROVAL





NOTES/REVISIONS:

-				
SERVICE OF THE PERSONS ASSESSMENT	-	www.	-	91

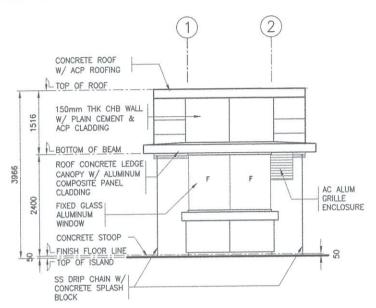
BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF GUARD HOUSE

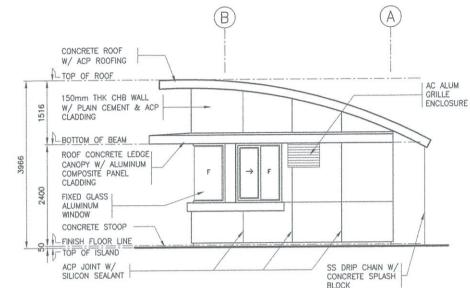
BORONGAN AIRPORT BORONGAN

SHEET CONTENTS:

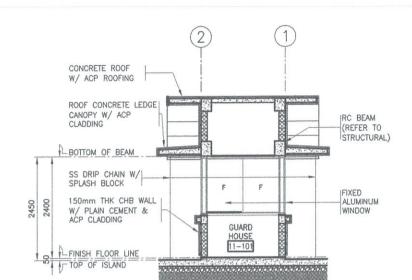
FLOOR PLAN ROOF PLAN REFLECTED CEILING PLAN @ CANOPY REFLECTED CEILING PLAN @ ROOF

DRAWING SCALE:	SHEET NO	:
AS SHOWN	Α	01

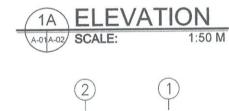




SCALE:







CONCRETE ROOF

CANOPY W/ ACP CLADDING

BOTTOM OF BEAM

TOP OF ROOF

W/ ACP ROOFING

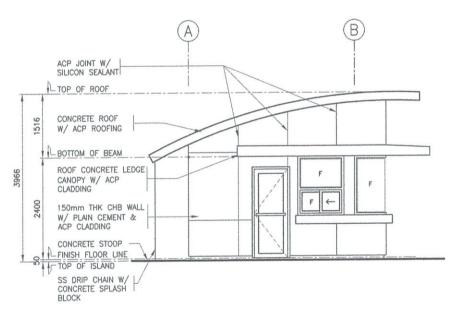
ROOF CONCRETE LEDGE

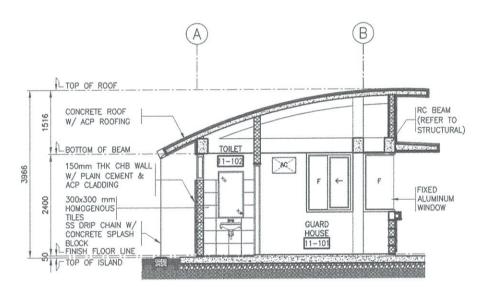
150mm THK CHB WALL

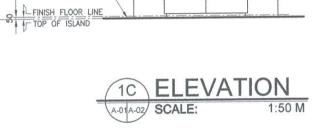
W/ PLAIN CEMENT & ACP CLADDING

SS DRIP CHAIN W/

CONCRETE STOOP









ELEVATION







REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AWAITON AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY: IDDD DRAWN BY: E.V.B (jangz27)	BY: E.V.B (jangz27)	DESIGN STAFF:	INITIAL	DATE
DRAWN BY: E.V.B (jangz27)		DESIGNED BY:	IDDD	111
	ED BY: EJDJR	DRAWN BY:	E.V.B (jangz27)	> VA
CHECKED BY: EJDJR		CHECKED BY:	EJDJR D	74

REVIEWED BY:



ARNEL F. BORLADO
Department Manager III.AED-ADI

RECOMMENDED APPROVAL:



APPROVED:

CAPTAIN MANUE	ANTONIO L. TAMAYO
Direct	General

NOTES/REVISIONS:

PROJEC

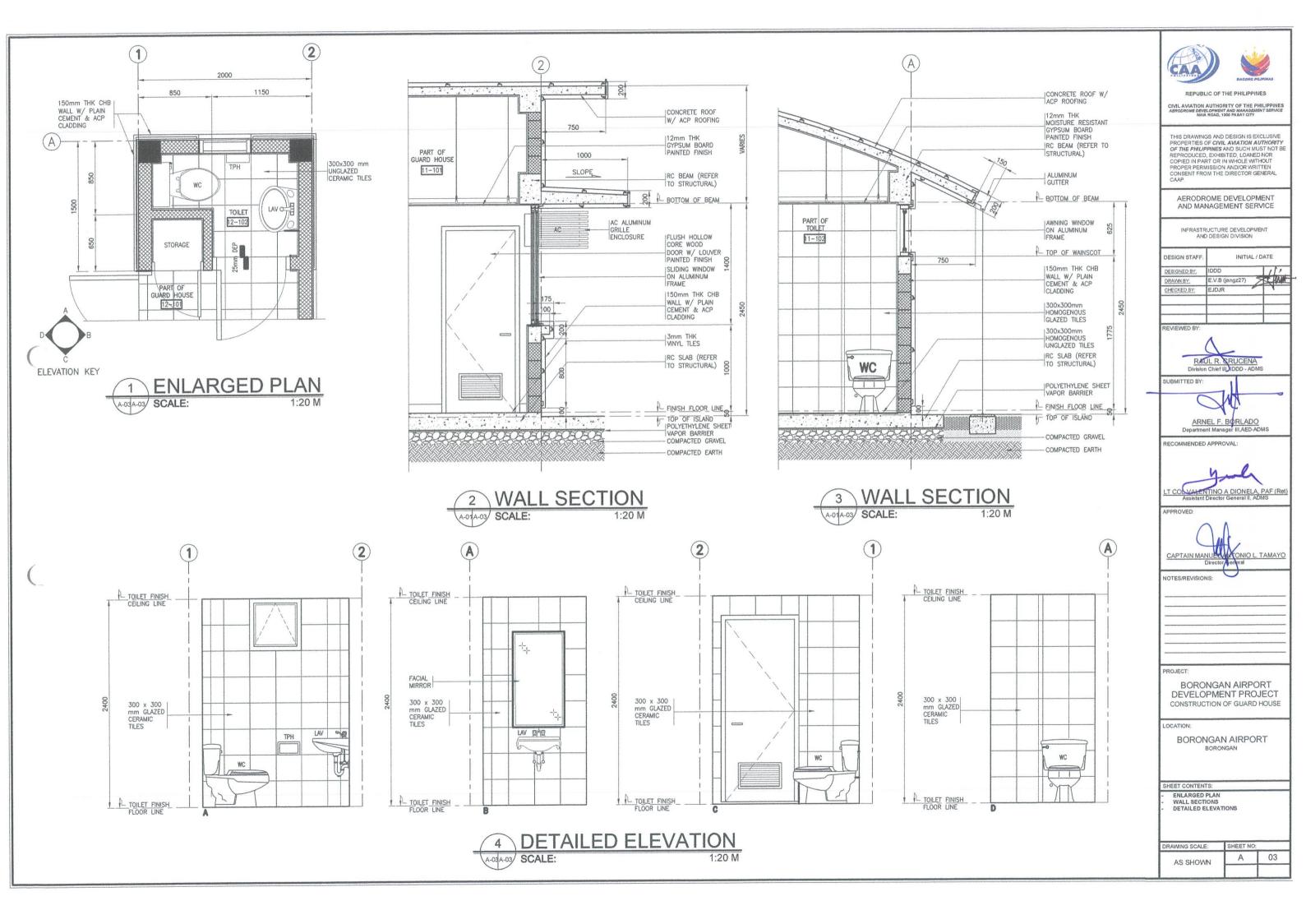
BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF GUARD HOUSE

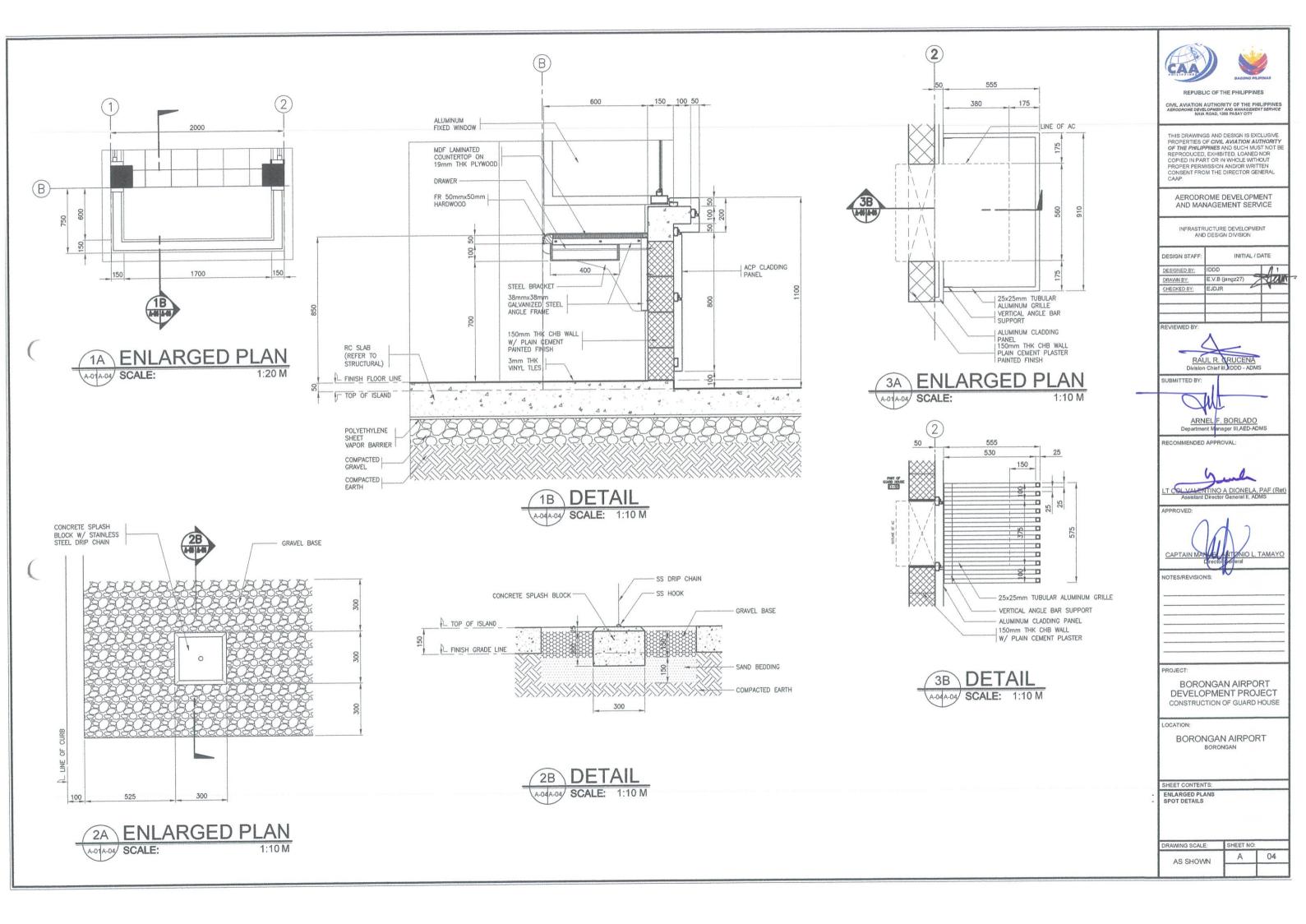
LOCATION:

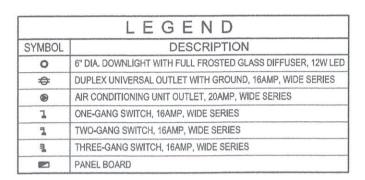
BORONGAN AIRPORT BORONGAN

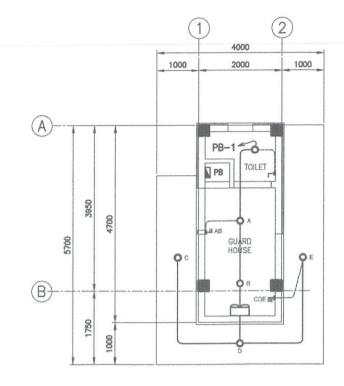
SHEET CONTENTS:

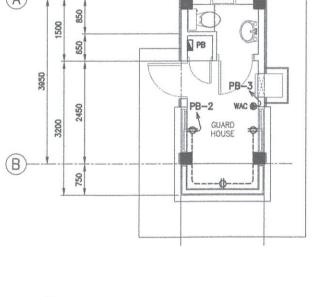
DRAWING SCALE:	SHEET NO	:
AS SHOWN	Α	02











2000

-- 1200 --

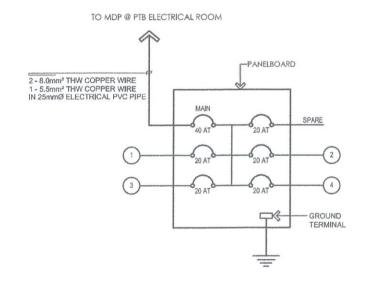
800

LIGHTING LAYOUT

POWER LAYOUT SCALE: 1:50 M

SCHEDULE OF LOADS: PR. 230VOLTS 1-PHASE 2WIRE+G

CKT.	LOAD DESCRIPTION	NO, OF OUTLET	VOLTS	VA PER CIRCUIT	PHASE	AMP	CB RATING	SIZE OF WIRE	SIZE OF CONDUITS
1	LIGHTING OUTLET	7	230	350	1	1.52	20AT, 2P	2-3,5mm² THHN/THWN-2 CU WIRE + 1-3,5mm² THHN/THWN-2 CU WIRE (G)	20mmØ uPVC PIPE
2	CONVENIENCE OUTLET	3	230	540	1	2.35	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE + 1-3.5mm² THHN/THWN-2 CU WIRE (G)	20mm@ uPVC PIPE
3	AIR CONDITIONING OUTLET	1	230	1500	1	6.52	20AT, 2P	2-3.5mm² THHN/THWN-2 CU WIRE + 1-3.5mm² THHN/THWN-2 CU WIRE (G)	20mmØ uPVC PIPE
4	SPARE		230	1000	1	4.35	20AT, 2P		
5	SPARE		230	1000	1	4.35	20AT, 2P		
	ТОТ	AL	Amustone			19.09			
	I _T = 19.09 × 1.25 I _T = 23.87 A		.0mm² THI 5.5mm² THI		COPPER			DR THE FEEDER PROTECTION: SE: 40AT, 100AF, 2-POLE, 230V, 10KAIC C	В



SCHEDULE OF LOADS







REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAIA ROAD, 1300 PASAY GITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED ONC COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT AND DESIGN DIVISION

DESIGNED BY:	IDDD	
DRAWN BY:	RUAJR	
CHECKED BY:	EJDJR	



SUBMITTED BY:



RECOMMENDED APPROVAL





BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF GUARD HOUSE

LOCATION

BORONGAN AIRPORT

LEGENDS LIGHTING LAYOUT POWER LAYOUT SCHEDULE OF LOADS SINGLE LINE DIAGRAM

RAWING SCALE: SHEET NO: E 01 AS SHOWN

GENERAL NOTES :

- IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY PIPE FITTING, VALVE AND APPURTENANCE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED IF NECESSARY TO COMPLETE THE SYSTEM TO THE SATISFACTION OF THE
- 2. ALL DIMENSIONS AND PIPE SIZES ARE IN MILLIMETERS EXCEPT OTHERWISE SHOWN. INDICATED METRIC EQUIVALENT USED ON THESE PLANS FOR PIPE SIZES:

1/2"	= 15mm	1 1/2"	= 40mm	3"	= 75 mm
3/4"	= 20mm	2"	= 50mm	4"	= 100mr
1 1/4"	= 32mm	2 1/2"	= 65mm		

- 3. ALL PLUMBING WORKS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISION OF THE NATIONAL PLUMBING CODE OF THE PHILIPPINES, THE REQUIREMENTS OF THE LOCAL PLUMBING INSPECTION OFFICE, PERTINENT PROVISIONS OF THE UNIFORM BUILDING CODE AND UNIFORM PLUMBING CODE.
- 4. ALL PLUMBING INSTALLATIONS SHALL BE COORDINATED WITH OTHER TRADES. ANY REVISION IN THE PIPING LAYOUT REQUIRED FOR PROPER EXECUTION OF OTHER TRADES SHALL BE WITH PRIOR APPROVAL OF THE ENGINEER.
- HORIZONTAL SANITARY SEWER PIPING SHALL BE RUN IN PRACTICAL ALIGNMENT AT A MINIMUM SLOPE OF 1% FOR PIPES 100mmø & LARGER & 2% FOR 75mmø & SMALLER.
- _ VENT PIPES SHALL BE FREE FROM DROPS OR SAGS AND SHALL BE SLOPED OR GRADED AS TO URIP BACK BY GRAVITY TO THE DRAINAGE PIPE IT SERVES.
- 7. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES AT SITE, SUCH AS, THE ACTUAL PIPE SIZES, LOCATIONS, DEPTHS, TOP AND INVERT ELEVATIONS OF ALL EXISTING PIPES AND RELATED STRUCTURES. THE CONTRACTORS SHALL PROVIDE THE NECESSARY EXCAVATIONS, BACKFILLING AND SURFACE RESTORATION OF THE AFFECTED AREAS IN THE LAYING OF SEWER, AND WATER SUPPLY LINES.
- CONDENSATE DRAINAGE SYSTEM FOR AIRCONDITIONING EQUIPMENT INCLUDING PIPINGS, FITTINGS, SUPPORTS, ALL REQUIRED ACCESSORIES AND TAPPING POINTS SHALL BE PART OF MECHANICAL CONTRACTOR.
- 9. PROVIDE VALVE BOX FOR EACH EMBEDDED GATE VALVE.
- 10. ALL PIPE SIZES INDICATED ON PLANS WERE SIZED ACCORDING TO THEIR INSIDE DIAMETER.

MATERIALS' SPECIFICATION:

COLD WATER LINE

(INSIDE OF BUILDING) — SHALL BE POLYPROPYLENE RANDOM (TYPE 3) PN 20; HIGH RESISTANCE TO PRESSURE AND TEMPERATURE, CONFORMING TO EN ISO 15874.

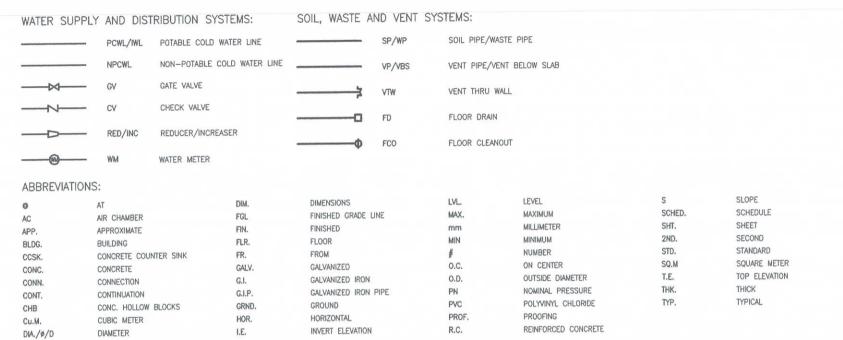
SIMILAR TO GEORGE FISCHER, NELTEX, UNITEC PP—R PIPE OR APPROVED EQUIVALENT.

(OUTSIDE OF BUILDING & EXPOSED) — SHALL BE HOT—DIPPED GALVANIZED IRON PIPE CONFORMING TO ASTM A53. SIMILAR TO SUPREME, SUPERIOR AND IPI PIPE SCHEDULE 40 OR APPROVED EQUIVALENT.

SOIL, WASTE AND VENT LINES

- SHALL BE UNPLASTICIZED POLYVINYL CHLORIDE (uPVC) PIPE CONFORMING TO ASTM D2729, SIMILAR TO NELTEX, MOLDEX OR EMERALD SERIES 1000 uPVC OR APPROVED EQUIVALENT.

LEGEND, SYMBOLS & ABBREVIATIONS:



PLUMBING FIXTURE CONNECTION SCHEDULE (MINIMUM PIPE SERVICE CONNECTION)

PLUMBING FIXTURE	SYMBOL	WATER SUPPLY PIPE SIZE(mm)	WASTE/SOIL PIPE SIZE(mm)	TRAP SIZE(mm)
KITCHEN SINK	KS	15	50	38
LAVATORY	LAV	15	50	38
PANTRY SINK	PS	15	50	38
SERVICE SINK	SSK	15	75	50
SHOWER	SH	15	50	50
URINAL	UR	20	50	INTEGRAL
WATER CLOSET (FLUSH TANK)	wc	15	100	INTEGRAL
WATER CLOSET (FLUSH VALVE)	wc	32	100	INTEGRAL

EQUIVALENT PIPE SIZE FOR WATER PIPES

NOMINAL PIPE DIAMETER(mm)	POLYPROPYLENE RANDOM PPR (mm)
15	20
20	25
25	32
32	40
40	50
50	63
63	75
75	100





REPUBLIC OF THE PHILIPPINES

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES
AERODROME DEVELOPMENT AND MANAGEMENT SERVICE
NAIL ROAD, 1909 PASSY CHE

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILLIPPINES AND SUCH MUST NOT BI REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION AND/OR WRITTEN CONSENT FROM THE DIRECTOR GENERAL CAAP.

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

INFRASTRUCTURE DEVELOPMENT

DESIGN STAFF:	INITIAL /	DATE
DESIGNED BY:	IDDD	11
DRAWN BY	E.V.B (jangz27)	A C
CHECKED BY:	EJDJR	T

REVIEWED BY



SORWITTED



RECOMMENDED APPROVAL:



APPROVED:

NOTES/REVISIONS



BORONGAN AIRPORT DEVELOPMENT PROJECT CONSTRUCTION OF GUARD POST

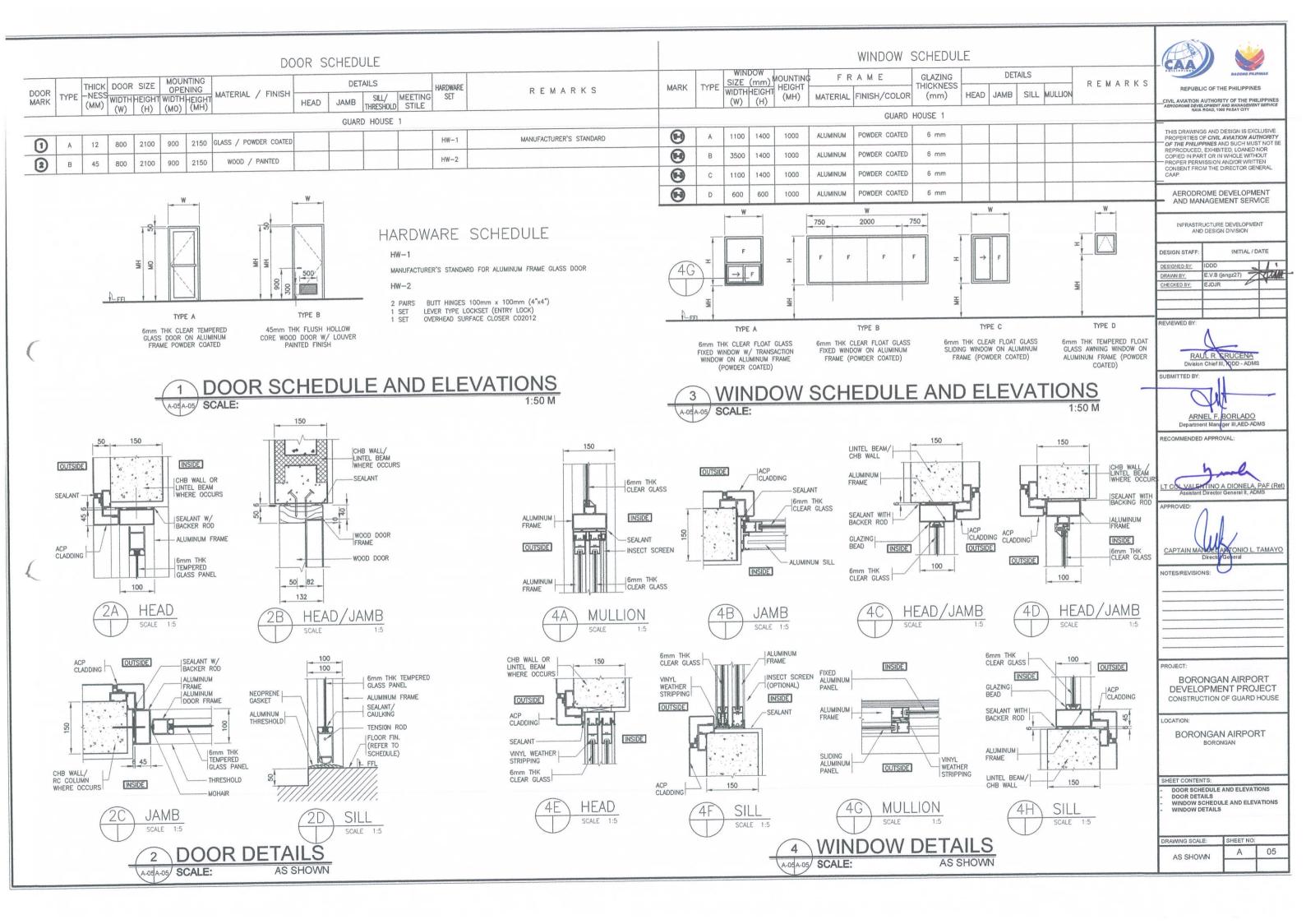
LOCATION

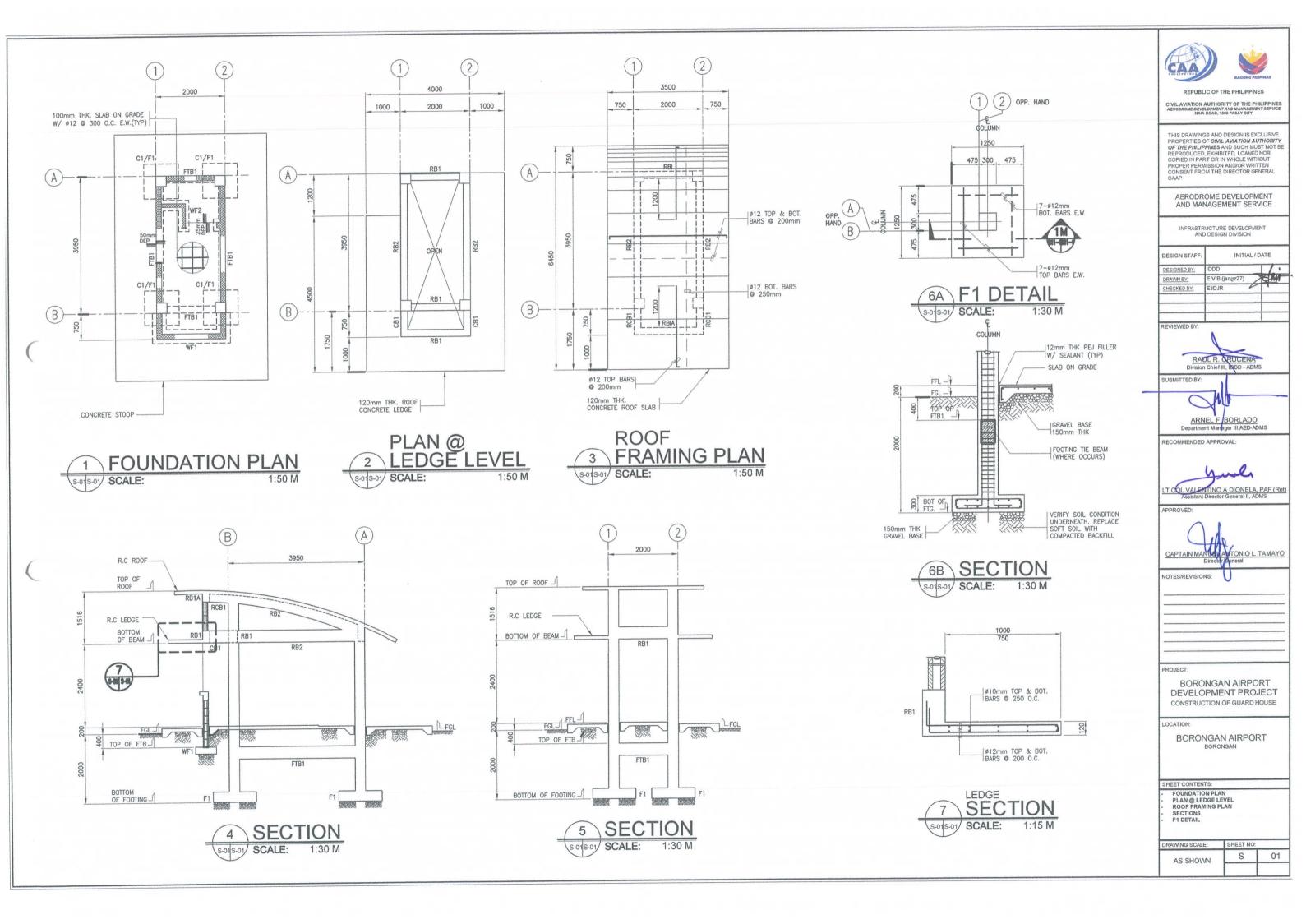
BORONGAN AIRPORT BORONGAN

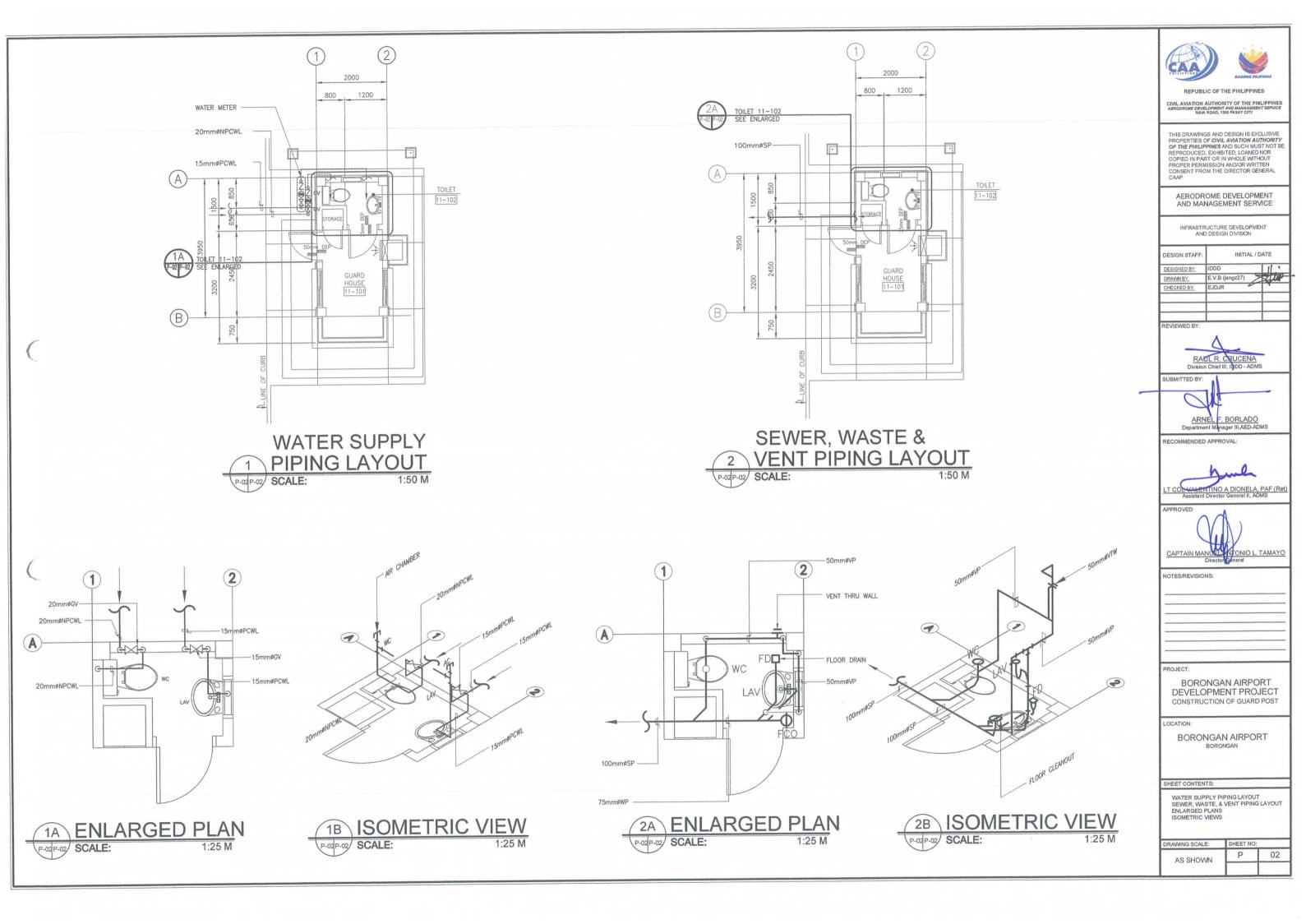
SHEET CONTENTS:

GENERAL NOTES LEGEND, SYMBOLS & ABBREVIATIONS MATERIALS' SPECIFICATIONS PLUMBING FIXTURE CONNECTION SCHEDULE EQUIVALENT PIPE SIZE FOR WATER PIPES

DRAWING SCALE:	SHEET NO	:
AS SHOWN	Р	01







GENERAL NOTES:

- ALL ELECTRICAL WORKS AND INSTALLATIONS SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE ELECTRICAL CODE WITH THE RULES AND REGULATIONS OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF ELECTRICAL LAWS AND REGULATIONS OF THE UTILITY COMPANIES CONCERNED.
- 2. ALL ELECTRICAL WORKS HEREIN SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY REGISTERED ELECTRICAL ENGINEER.
- 3. ALL MATERIALS SHALL BE BRAND NEW AND SUBJECT FOR APPROVAL BY CAAP PROJECT IN-CHARGE.
- 4. ALL WORKS SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT AND ORDERLY ACCEPTANCE.
- 5. PROVIDE STREETLIGHT PHOTOMETRIC TEST REPORT CERTIFIED BY DEPARTMENT OF ENERGY (DOE) TO VERIFY CLAIMS ON ENERGY RATINGS.

SPECIFICATIONS:

80 WATTS INTEGRATED SOLAR LED STREETLIGHT

WATTAGE : 80 WATTS

SOLAR PANEL : 18V/85W MONOCRYSTALLINE SILICON

BATTERY : 12.8V/48AH BUILT-IN LIFEPO4 LITHIUM IRON BATTERY

LIGHT OUTPUT : 8.800 LUMEN / 80 WATTS

LIFE TIME : 50,000 HOURS

COLOR TEMP. : 6500K

LAMP MATERIAL : ALUMINUM ALLOY

BODY COLOR : WHITE

WORKING MODEL : MOTION SENSOR OR TIME CONTROL

CHARGING TIME : 6-8 HOURS (BY SUN)

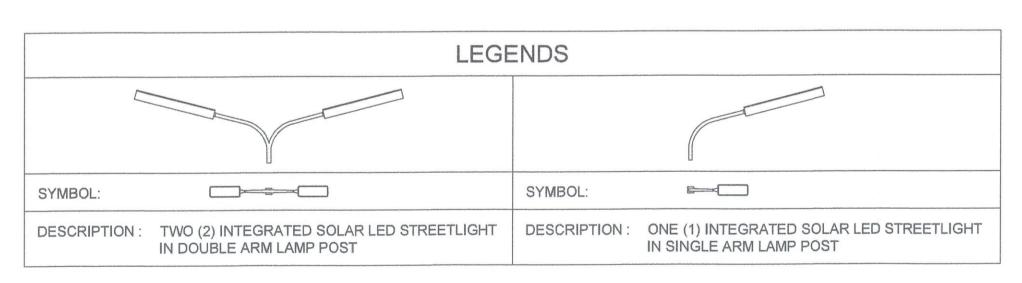
DISCHARGE TIME : 3-5 RAINY DAYS, 12 HOURS PER NIGHT

IP RATING : IF

CERTIFICATES : CE, ROHS, IP65

WARRANTY : 2 YEARS

PRODUCT SIZE : 1,340 x 430 x 50mm







REPUBLIC OF THE PHILIPPINE

CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AERODROME DEVELOPMENT AND MANAGEMENT SERVICE NAMA ROAD, 1300 PARAY CITY

THIS DRAWINGS AND DESIGN IS EXCLUSIVE PROPERTIES OF CIVIL AVIATION AUTHORITY OF THE PHILIPPINES AND SUCH MUST NOT BE REPRODUCED, EXHIBITED, LOANED NOR COPIED IN PART OR IN WHOLE WITHOUT PROPER PERMISSION ANDOR WRITTEN CONSENT FROM THE DIRECTOR GENERAL

AERODROME DEVELOPMENT AND MANAGEMENT SERVICE

NFRASTRUCTURE DEVELOPMENT

DESIGNED BY:	IDDD	T
DRAWN BY:	RUAJR	
CHECKED BY:	EJDJR	

REVIEWED B



SUBMITTED BY:



RECOMMENDED APPROVAL:



APPROVED:



NOTES/REVISIONS

	-		-		-
-					_
		-		-	-
-			_		

PROJE

BORONGAN AIRPORT
DEVELOPMENT PROJECT
VPA AND ACCESS ROAD
LIGHTING

LOCATIO

BORONGAN AIRPORT BORONGAN

SHEET CONTENTS

DRAWING SCALE:	SHEET NO:	
AS SHOWN	E	01