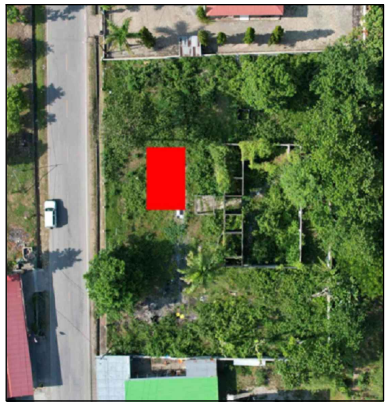
CNE COVA LIMA
EXTERIOR PERSPECTIVE



LOCATION PLAN

VICINITY MAP

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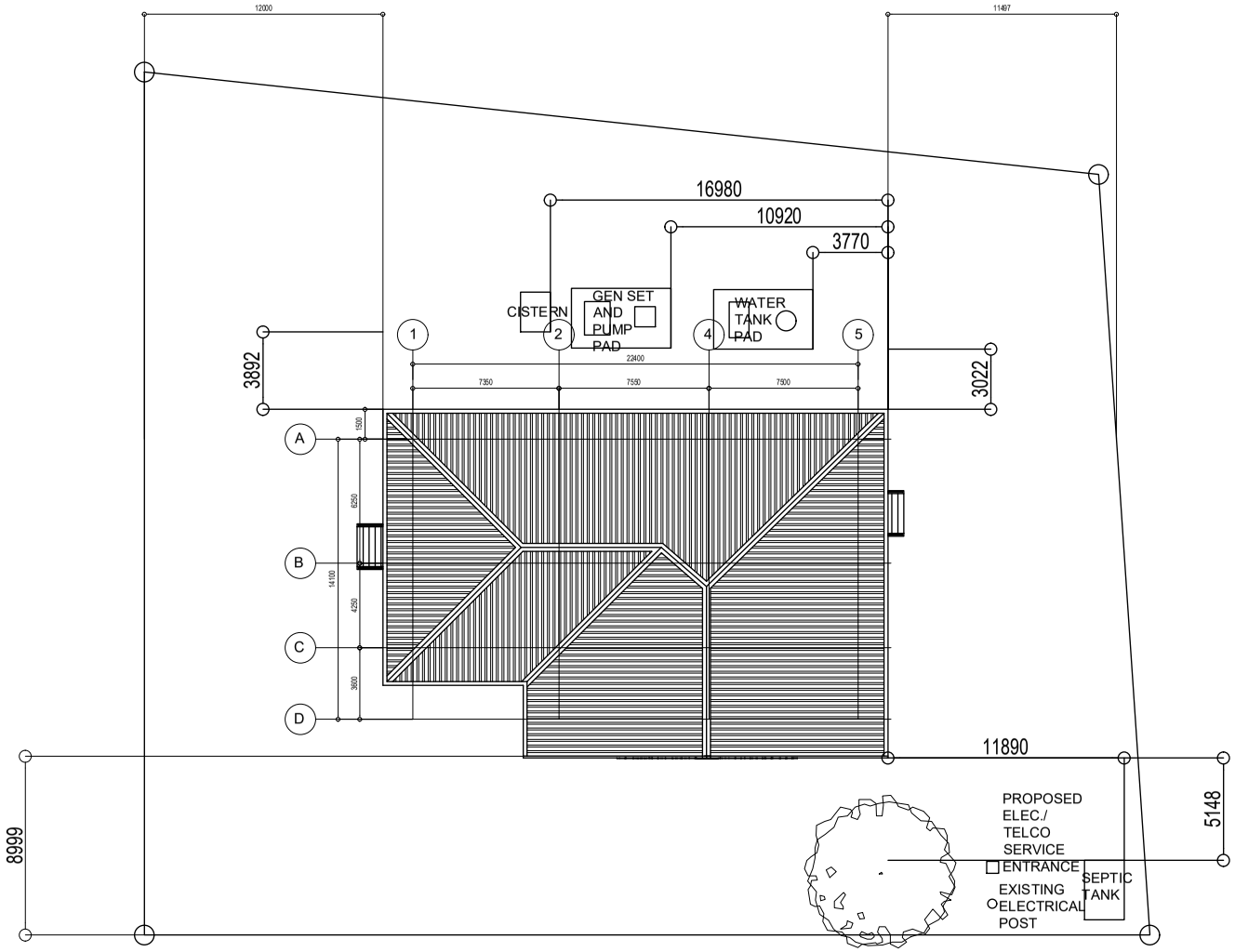
M2: ACU and Ventilation Layout
M3: Generator Layout and Details

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA PERSPECTIVE LOCATION MAP VICINITY MAP			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	A1				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	SHP.SUPV. CHECKED
			–	–	–		
			ORIGINATOR			CLIENT	

REVISION HISTORY



EXISTING ROAD

N

CNE COVA LIMA
SITE DEVELOPMENT PLAN

1 M 3 M 5 M
2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SITE DEVELOPMENT PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	A2				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	SHP.SUPV. CHECKED
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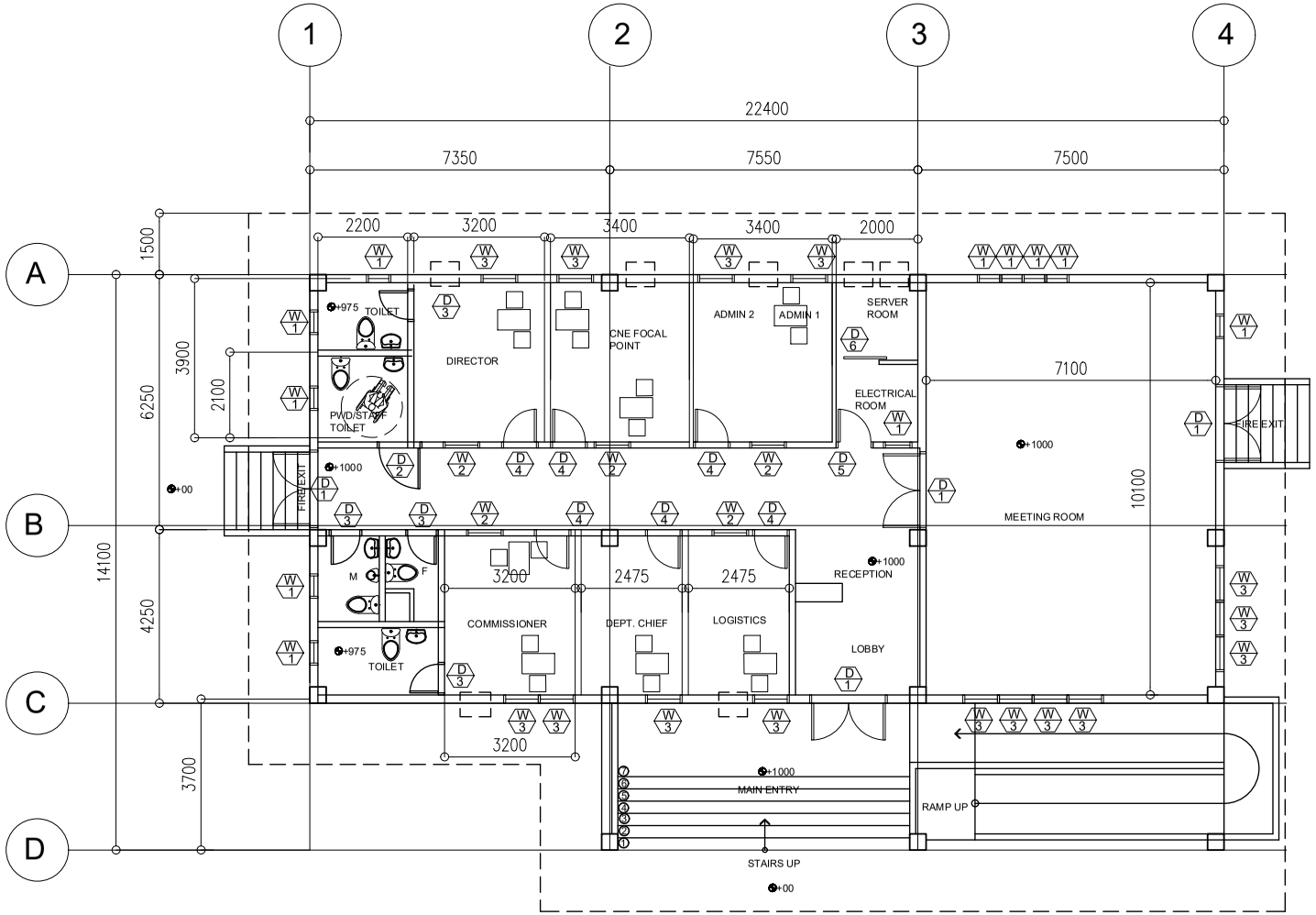
			ORIGINATOR			CLIENT	

REVISION HISTORY



LEGEND

- MASONRY WALL, 200MM FOR EXTERIOR, 150MM FOR INTERIOR WALLS
- 100MM FICEM DRYWALL, UP TO CEILING

CNE COVA LIMA
FLOOR PLAN

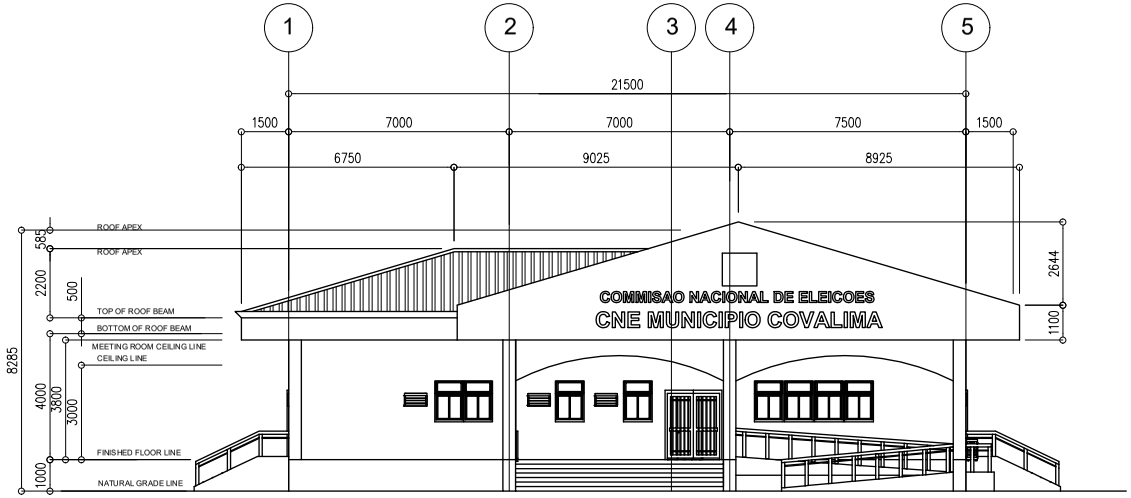
SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

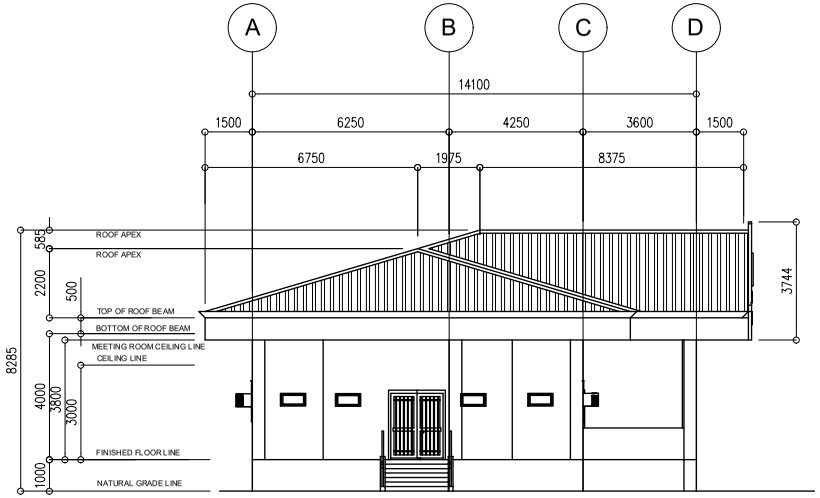
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA FLOOR PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	A3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			ORIGINATOR			CLIENT	

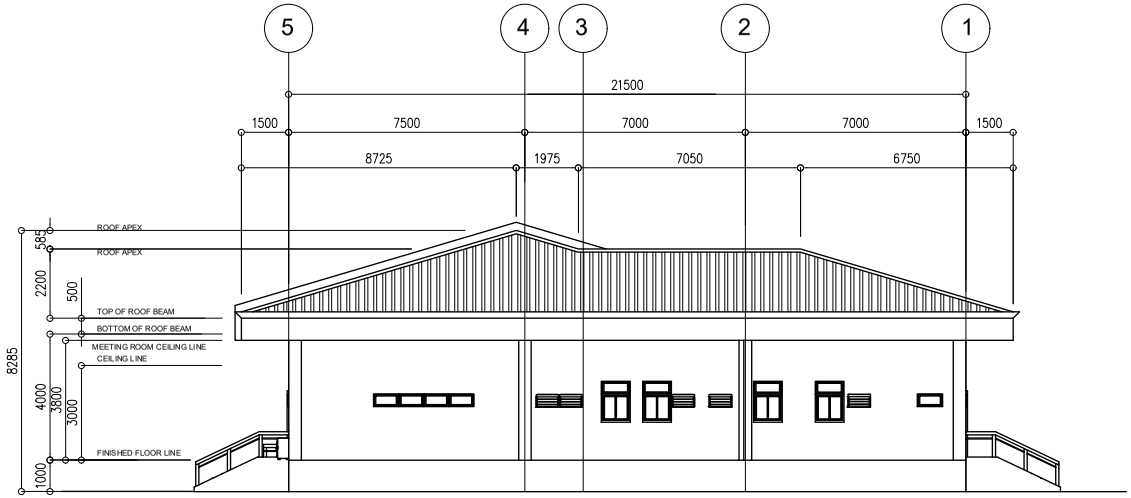
REVISION HISTORY



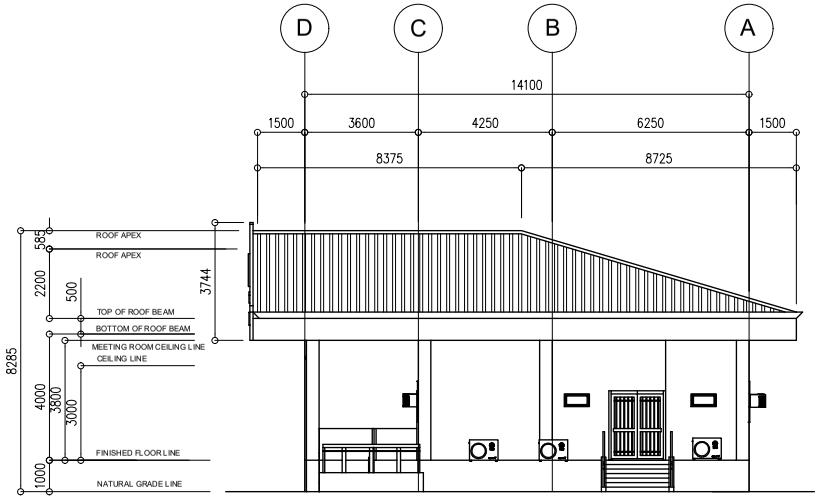
CNE COVA LIMA
FRONT ELEVATION
SCALE: 1:80 MTS



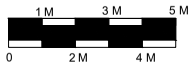
CNE COVA LIMA
LEFT ELEVATION
SCALE: 1:80 MTS



CNE COVA LIMA
REAR ELEVATION
SCALE: 1:80 MTS



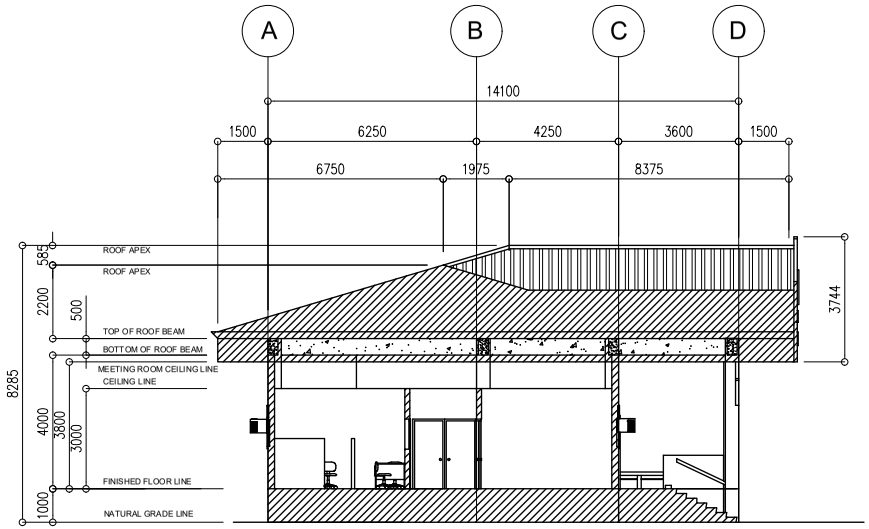
CNE COVA LIMA
RIGHT ELEVATION
SCALE: 1:80 MTS



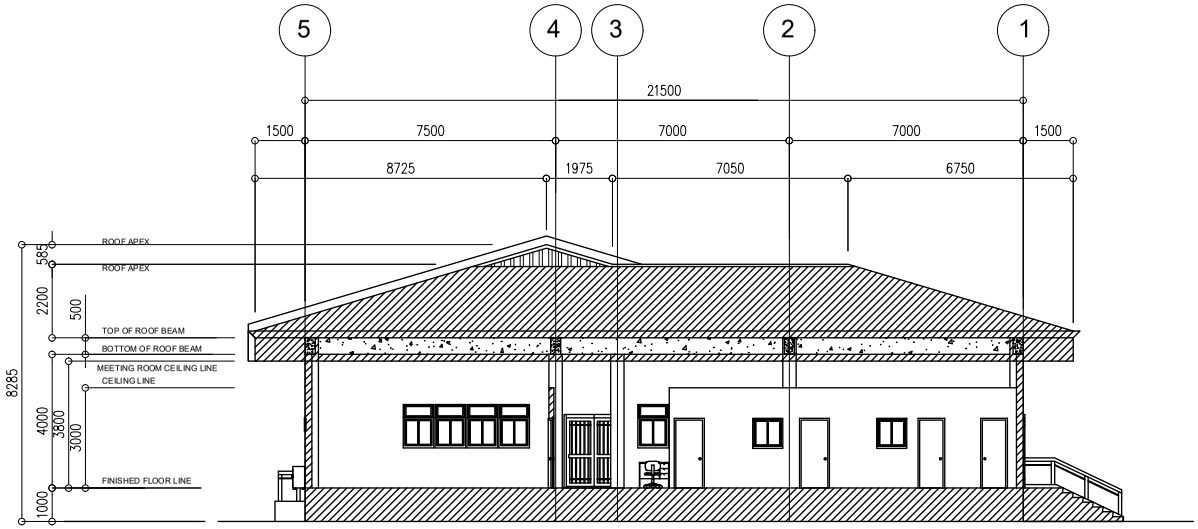
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA ELEVATIONS			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	A4				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	BRP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

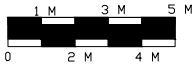
REVISION HISTORY



CNE COVA LIMA
CROSS SECTION
SCALE: 1:80 MTS



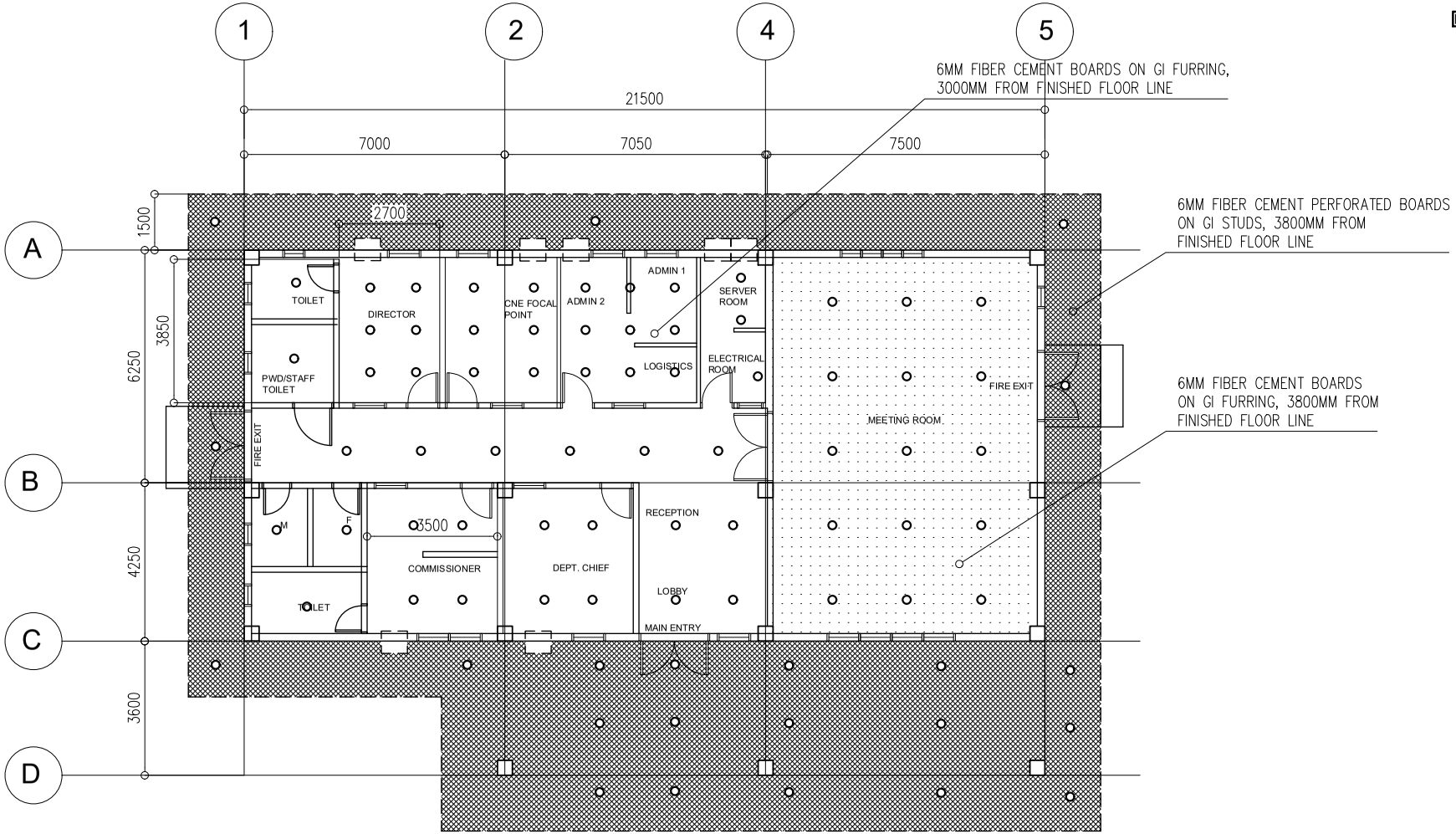
CNE COVA LIMA
LONGITUDINAL SECTION
SCALE: 1:80 MTS



PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SECTIONS			CNE COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	A5				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ENP.SUPV. CHECKED
			–	–	–		
			ORIGINATOR			CLIENT	

REVISION HISTORY



LEGEND

- EL — LED EMERGENCY LIGHT
- EXIT — EXIT LIGHT
- 150MM DIA. LED DOWN LIGHT

CNE COVA LIMA
REFLECTED CEILING PLAN

SCALE: 1:60 MTS

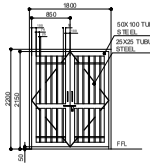
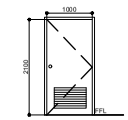
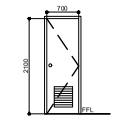
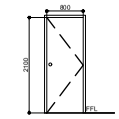
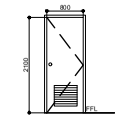
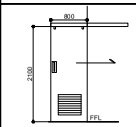
1 M 3 M 5
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA REFLECTED CEILING PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER); ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	A6				

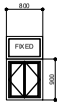
REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	MNP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

DOOR SCHEDULE

MARK	DESCRIPTION	LENGTH X HEIGHT	LOCATION/ NO. OF SETS
D 1	STEEL DOOR, WITH 50X 100 TUBULAR STEEL JAMBS, 50X100MM TUBULAR STEEL FRAME, WITH 4 SETS STAINLESS STEEL HINGES, 25MM TUBULAR STEEL WELDED DOOR HANDLES, AND HEAVY DUTY SLIDING BOLT DOOR LATCH		ONE AILEU: 1 MAIN ENTRY, 2 RIRE EXITS, 1 MEETING ROOM ONE BAUCAU: 1 MAIN ENTRY, 1 RIRE EXIT ONE COVA LIMA: 1 MAIN ENTRY, 2 RIRE EXITS, 1 MEETING ROOM
D 2	MARINE PLYWOOD FLUSH DOOR, KILN DRIED FRAME AND JAMBS, WITH 3 STAINLESS STEEL HINGES OPENING OUTWARDS, STAINLESS STEEL DOORKNOBS, WITH LOWER LOUVERS		ONE AILEU: 1 PWD TOILET ONE BAUCAU: 1 PWD TOILET ONE COVA LIMA: 1 PWD TOILET
D 3	MARINE PLYWOOD FLUSH DOOR, KILN DRIED FRAME AND JAMBS, WITH 3 STAINLESS STEEL HINGES, STAINLESS STEEL DOORKNOBS, WITH LOWER LOUVERS		ONE AILEU: 4 TOILETS ONE BAUCAU: 4 TOILETS ONE COVA LIMA: 4 TOILETS
D 4	PLYWOOD FLUSH DOOR, KILN DRIED FRAME AND JAMBS, WITH 3 STAINLESS STEEL HINGES, STAINLESS STEEL DOORKNOBS		ONE AILEU: 6 OFFICES ONE BAUCAU: 6 OFFICES ONE COVA LIMA: 6 OFFICES
D 5	STEEL DOOR, POLYURETHANE FINISH, WITH 3 STAINLESS STEEL LOOSE PIN HINGES, STAINLESS STEEL DOOR KNOB, WITH LOWER VENTS		ONE AILEU: 1 ELECTRICAL ROOM ONE BAUCAU: 1 ELECTRICAL ROOM ONE COVA LIMA: 1 ELECTRICAL ROOM
D 6	MARINE PLYWOOD FLUSH DOOR, WITH OVERHEAD SLIDING DOOR TRACK AND TWO SETS OF WHEELS, WITH STAINLESS STEEL HANDLE MOUNTED ON PLATE AND SLIDING DOOR LOCK, WITH LOUVERS		ONE AILEU: 1 SERVER ROOM ONE BAUCAU: 1 SERVER ROOM ONE COVA LIMA: 1 SERVER ROOM

WINDOW SCHEDULE

MARK	DESCRIPTION	LENGTH X HEIGHT	LOCATION/ NO. OF SETS
W 1	ALUMINUM FRAME, POWDERCOATED GRAY, 1 SET, AWNING, 8MM CLEAR ORDINARY GLASS, 1700 MM FROM FINISHED FLOOR LINE		ONE AILEU: 5 TOILETS, 1 ELECTRICAL ROOM, 5 MEETING ROOM ONE BAUCAU: 5 TOILETS, 1 ELECTRICAL ROOM ONE COVA LIMA: 5 TOILETS, 1 ELECTRICAL ROOM, 5 MEETING ROOM
W 2	ALUMINUM FRAME, POWDERCOATED GRAY, 1 SET, CASEMENT, 8MM CLEAR ORDINARY GLASS, 1200 MM FROM FINISHED FLOOR LINE		ONE AILEU: 5 INTERIOR - OFFICES ONE BAUCAU: 5 INTERIOR - OFFICES ONE COVA LIMA: 5 INTERIOR - OFFICES
W 3	ALUMINUM FRAME, POWDERCOATED GRAY, 1 SET, CASEMENT, 8MM CLEAR ORDINARY GLASS, 1200 MM FROM FINISHED FLOOR LINE		ONE AILEU: 8 EXTERIOR - OFFICES, 7 MEETING ROOM ONE BAUCAU: 8 EXTERIOR - OFFICES ONE COVA LIMA: 8 EXTERIOR - OFFICES

FINISH SCHEDULE

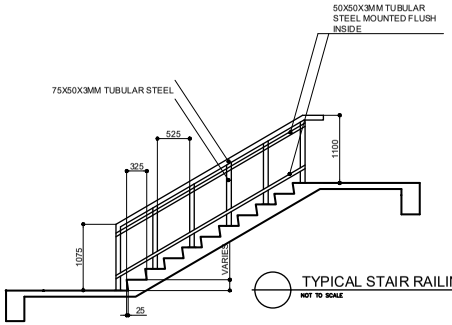
AREA	LOCATION	FINISH/INSTRUCTIONS	COLOR
EXTERIOR AREAS			
EXTERIOR RAMPS	FLOOR	300X300MM PAVER TILES	RED
STAIRS	FLOOR	300X300MM TEXTURED CERAMIC STAIR TILES WITH NOSING	BEIGE
LOWER WALL BELOW FLOOR LINE	WALL	SEMI GLOSS LATEX	GRAY
WALL ABOVE FLOOR LINE	WALL	SEMI GLOSS LATEX	LIGHT YELLOW
EAVES	EAVES	SEMI GLOSS LATEX	GRAY
GUTTER	GUTTER	FLAT LATEX	GRAY
EXPOSED DOWNSPOUTS	DOWNSPOUTS	SEMI GLOSS LATEX	SAME COLOR AS WALL
ROOFING SHEETS	ROOF	PREPAINTED 0.5MM CORRUGATED LONG SPAN GI SHEETS WITH 12MM PE INSULATION	RED
RAMP AND STAIR RAILINGS	RAILINGS	MARINE EPOXY PRIMER, QUICK DRY ENAMEL TOPCOAT	GRAY
STEEL DOORS AND JAMBS	DOORS AND JAMBS	MARINE EPOXY PRIMER, QUICK DRY ENAMEL TOPCOAT	GRAY
ROOF LOUVERS	ROOF LOUVERS	POWDER COATED ALUMINUM LOUVERS AND TUBULAR FRAMES	LIGHT YELLOW
WINDOW JAMBS AND FRAMES	WINDOW JAMBS AND FRAMES	POWDER COATED ALUMINUM JAMBS AND FRAMES	GRAY
INTERIOR AREAS			
WOODEN DOOR JAMBS AND FRAMES	WOODEN DOOR JAMBS AND FRAMES	QUICK DRY SEMI GLOSS ENAMEL	GRAY
STEEL DOOR JAMBS AND FRAMES	STEEL DOOR JAMBS AND FRAMES	MARINE EPOXY PRIMER, QUICK DRY ENAMEL TOPCOAT	GRAY
ALL ROOMS EXCEPT TOILETS AND ELECTRICAL ROOM AND SERVER ROOM	FLOORS	600X600MM SEMI HOMOGENOUS CERAMIC POLISHED FLOOR TILES	BEIGE
BASEBOARD	WALLS	SEMI GLOSS LATEX	GRAY
TOILETS	FLOORS	300X300 TEXTURED CERAMIC FLOOR TILES	BEIGE
TOILETS	WALLS	300X300 POLISHED CERAMIC TILES, UP TO CEILING	BEIGE
ALL WALLS EXCEPT TOILETS	WALLS	SEMI GLOSS LATEX	LIGHT YELLOW
ELECTRICAL ROOM, SERVER ROOM	FLOORS	300X300 HOMOGENOUS VINYL TILES	BEIGE
ALL AREAS	CEILING	FLAT LATEX	EGSHELL WHITE
DOOR HINGES, DOORKNOBS	HARDWARE	STAINLESS STEEL SATIN FINISH	SILVER

NOTES:
1. ARCHITECTURAL DETAILS, INTERIOR DESIGN DETAILS, COLORS AND MATERIALS SHALL SUPERSEDE THIS FINISH SCHEDULE
2. FURNISH THE OWNER WITH SAMPLES PRIOR TO INSTALLATION

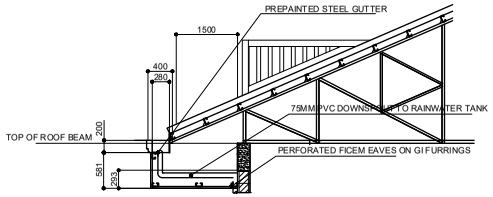
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA DOOR SCHEDULE WINDOW SCHEDULE FINISH SCHEDULE			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	A7				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	SHP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

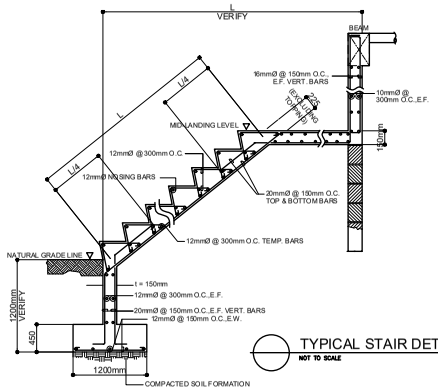
REVISION HISTORY



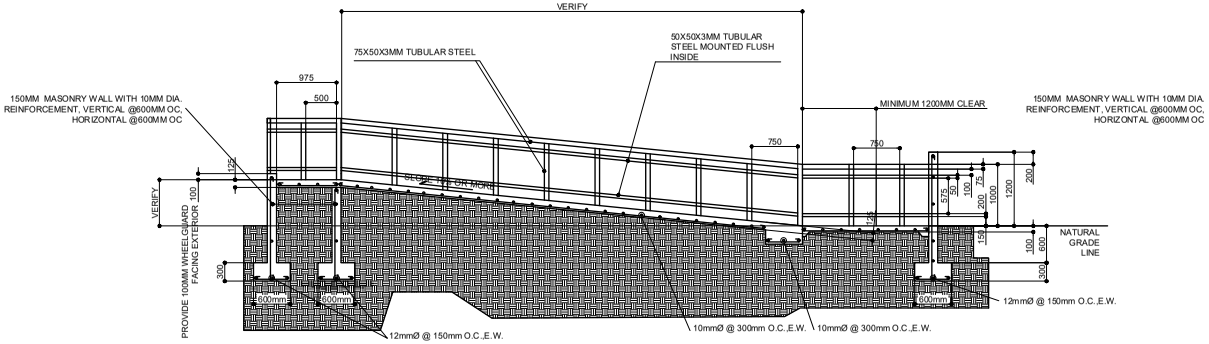
TYPICAL STAIR RAILING DETAIL
NOT TO SCALE



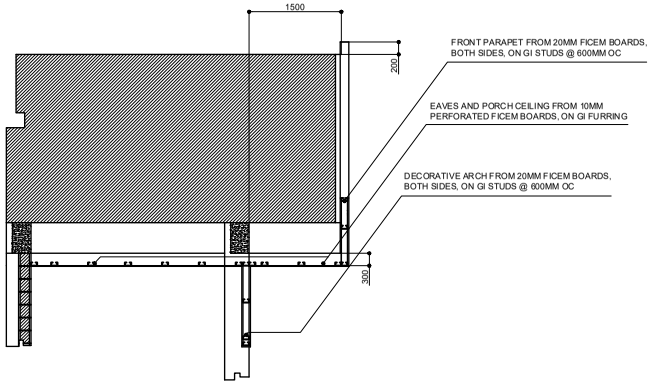
TYPICAL GUTTER AND EAVE DETAIL
NOT TO SCALE



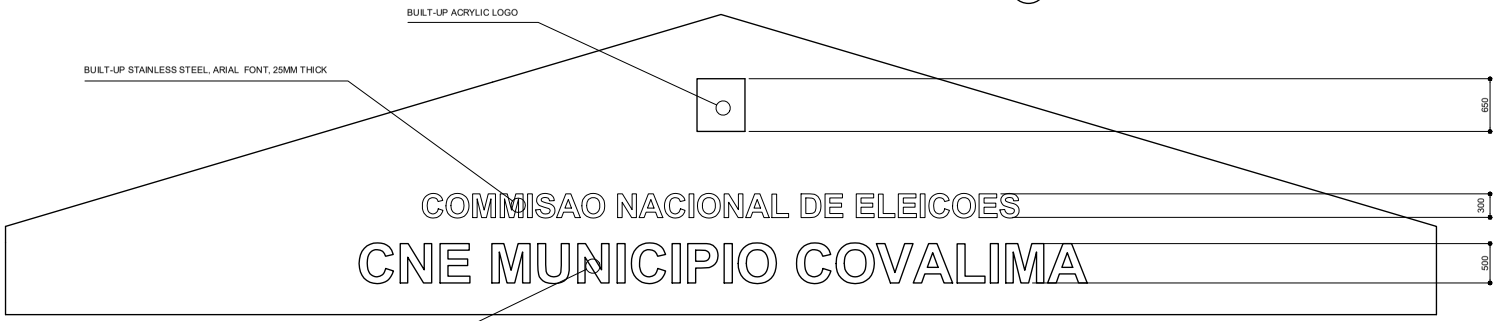
TYPICAL STAIR DETAIL
NOT TO SCALE



TYPICAL RAMP DETAIL
NOT TO SCALE



DETAIL OF PARAPET, DECORATIVE ARCH AND EAVES
NOT TO SCALE



SIGNAGE DETAIL
NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	STAIR DETAIL RAMP DETAIL TYPICAL ROOF LOUVER DETAIL TYPICAL GUTTER AND EAVE DETAIL SIGNAGE DETAIL			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA, PROJECT MANAGER ENGR. MD SHRAJUL ISLAM, CIVIL ENGINEER SPECIALIST
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	A8				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	BRP/SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

1 S-0 STRUCTURAL NOTES, SPECIFICATIONS AND TYPICAL DETAILS

NOT TO SCALE

STRUCTURAL SPECIFICATIONS

A.) GENERAL NOTES:

A.1) IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN. DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

A.2) IN CASE OF CONFLICT IN DETAILS OR DIMENSIONS BETWEEN THE ARCHITECTURAL AND ENGINEERING DRAWINGS, REFER TO THE ARCHITECT FOR FINAL DECISION.

A.3) IN CASE OF CONFLICT BETWEEN THESE DRAWINGS AND SPECIFICATIONS, THE WORKING DRAWING SHALL GOVERN.

A.4) ALL STRUCTURAL DETAILS UNLESS OTHERWISE SHOWN IN THE DRAWINGS SHALL FOLLOW CONSTRUCTION NOTE DETAILS.

A.5) ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE ACI-318-95 CODE IN SO FAR AS THEY DO NOT CONFLICT WITH LOCAL BUILDING CODE REQUIREMENTS.

A.6) CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT, MECHANICAL, ELECTRICAL, STRUCTURAL ENGINEER PLANS AS TO THE EXACT SIZE AND LOCATION OF OPENINGS THRU FLOOR SLAB, BEAMS AND WALLS.

B.) CONCRETE:

MINIMUM CONCRETE STRENGTH AT 28 DAYS COMPRESSIVE TEST SHALL AS FOLLOWS:

B.1) COLUMNS, FOOTING TIE-BEAMS ____ f'c = 25 MPa (3,500 psi)

B.2) FOOTINGS, RETAINING WALLS, & STAIRS ____ f'c = 25 MPa (3,500 psi)

B.3) SUSPENDED SLABS, BEAMS AND GIRDERS ____ f'c = 25 MPa (3,500 psi)

B.4) SLAB ON GRADE ____ f'c = 25 MPa (3,500 psi)

B.5) OTHERS NOT SPECIFIED ____ f'c = 25 MPa (3,500 psi)

CONCRETE MIX FOR 25MPa: 1 PART CEMENT, 2.95 PARTS GRAVEL, 2.66 PARTS SAND

* CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEELBARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEELBARROWS OR BUCKETS IN WHICH CASE THEY SHALL NOT EXCEED SIX (6.00) METERS IN AGGREGATE LENGTH.
* NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATIONS IS EXTREMELY DIFFICULT TO ACCOMPLISH.
* WITHOUT PRELIMINARY TEST DATA, THE WATER-CEMENT RATIO FOR A GIVEN STRENGTH OF CONCRETE SHOULD NOT EXCEED THE VALUES SHOWN IN THE ACI CODE, WHEN STRENGTH IN EXCESS OF 211.0 KG/CM² (3 KSI) ARE REQUIRED, STRENGTH TEST SHOULD BE MADE.

C.) CONCRETE PROTECTION FOR REINFORCING BARS:

* THE FOLLOWING SHALL BE THE CLEAR COVER CONCRETE PROTECTIONS:

FOUNDATION ____ 0.08 m.
SLAB ON GRADE ____ 0.04 m.
SURFACE EXPOSED TO WEATHER ____ 0.05 m.
COLUMNS ____ 0.04 m.
BEAMS AND GIRDERS ____ 0.04 m.
SUSPENDED SLABS AND STAIRS ____ 0.02 m.
WALLS ____ 0.02 m.
POST-TENSIONED SLAB ____ 0.03 m.

D.) SIZE OF AGGREGATES TO BE USED:

MAXIMUM SIZES OF AGGREGATES TO BE USED FOR VARIOUS TYPE OF CONCRETE CONSTRUCTION:

MINIMUM DIMENSION OF SECTION	REINFORCED CONCRETE WALLS, BEAMS & COLUMNS	UNREINFORCED WALLS	HEAVILY REINFORCED SLABS	LIGHTLY REINFORCED OR UNREINFORCED SLABS
2 1/2" TO 5"	1/2" TO 3/4"	3/4"	3/4" TO 1"	3/4" TO 1 1/2"
6" TO 11"	3/4" TO 1 1/2"	1 1/2"	1 1/2"	1 1/2" TO 3"
12" TO 29"	1 1/2" TO 3"	3"	1 1/2" TO 3"	3"
30" OR MORE	1 1/2" TO 3"	6"	1 1/2" TO 3"	3" TO 6"

E.) REINFORCING BARS:

E.1) ALL REINFORCING BARS SHALL BE DEFORMED BILLET-STEEL BARS IN ACCORDANCE WITH ASTM A-615.

E.2) 16mm ø REBARS & LARGER SHALL BE DEFORMED HARD GRADE ____ fy = 414 MPa (60,000 psi)

E.3) 12mm ø REBARS & SMALLER SHALL BE DEFORMED INTERMEDIATE GRADE ____ fy = 276 MPa (40,000 psi)

E.4) ALL REINFORCING BARS ARE WELDABLE.

F.) STRUCTURAL STEEL:

F.1) ALL STRUCTURAL STEEL, BOTH ANGLES AND STEEL PLATES SHALL CONFORM TO ASTM A60. ____ fy = 413 MPa (59,000 psi)

F.2) WELDING ELECTRODES SHALL BE E70 XX SERIES.

F.3) MACHINE AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-325.

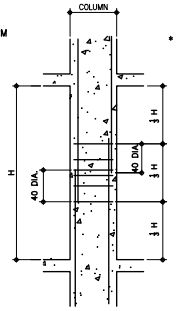
G.) REINFORCING BARS SPLICES:

G.1) FOR BEAMS: ALL SPLICES SHALL BE LAPPED OR EXTEND A MINIMUM OF 40 DIAMETER UNLESS SHOWN OTHERWISE. HORIZONTAL BARS SPLICE LOCATION SHALL BE STAGGERED FOR BEAMS AND GIRDERS. SPLICE TOP BARS AT MID SPAN, BOTTOM BARS AT SUPPORTS.

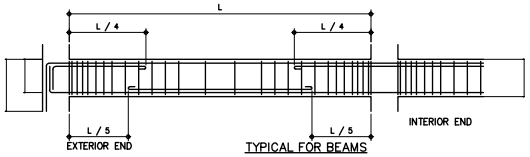
G.2) FOR COLUMNS: ALL SPLICES SHALL BE WELDED OR LAPPED LOCATED NEAR THE MID-HEIGHT LEVEL. NO MORE THAN 50% OF THE TOTAL NUMBER OF MAIN BARS SHALL BE SPLICED AT ANY SAME LEVEL LOCATION.

H.) CUT-OFF BARS

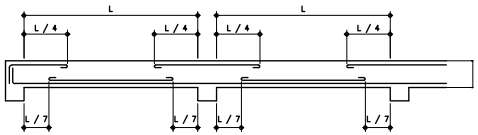
* UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS, TYPICAL BAR CUT-OFF FOR BEAMS, GIRDERS AND SLABS SHOWN BELOW SHALL BE FOLLOWED. HOOKS MAY BE OPTIONAL.



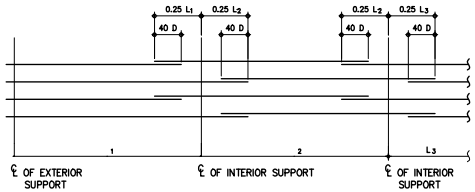
COLUMN SPLICE DETAIL



TYPICAL FOR BEAMS



TYPICAL FOR ONE-WAY SLAB



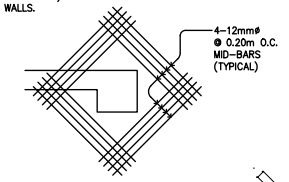
TYPICAL DETAIL OF STAGGERED LAP SPLICES FOR SLAB BOTTOM BAR

I.) PIPES AND CONDUITS EMBEDDED IN CONCRETE:

* UNLESS OTHERWISE SHOWN ON STRUCTURAL DRAWINGS OR PERMISSION OF ENGINEER, PIPES AND OTHER ELECTRICAL CONDUITS WITH THEIR FITTINGS SHALL NOT DISPLACE MORE THAN 4% OF THE CROSS-SECTIONAL AREA OF THE COLUMN.

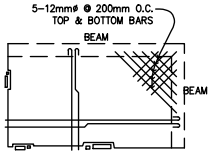
J.) REBARS AT CORNER SLAB AND SLAB OPENING:

* PROVIDE EXTRA REINFORCEMENT FOR CORNER SLABS (TWO ADJACENT DISCONTINUOUS EDGES) AS SHOWN BELOW AND AT ENDS AND CORNER OF SHEAR WALLS.

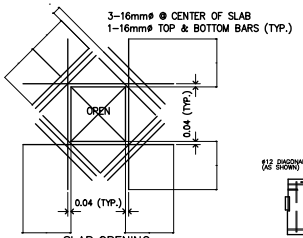


END OF SHEAR WALL

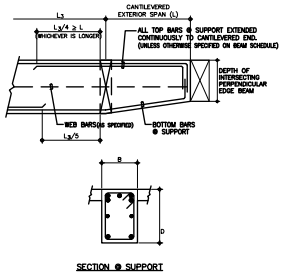
SHEAR WALL



CORNER SLAB

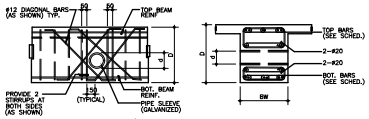


SLAB OPENING

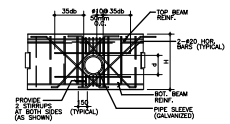


TYP. CANTILEVERED CONVENTIONAL BEAM DETAIL

NOT TO SCALE



d ≤ D/5 AND d ≤ 150mm



d ≤ D/4

DETAIL OF BEAM OPENINGS

NOT TO SCALE

K.) MINIMUM TIME BEFORE REMOVAL OF FORMS AFTER POURING:

WALLS ____ 3 DAYS
COLUMNS ____ 3 DAYS
BEAMS ____ AFTER STRESSING FOR PRESTRESSED MEMBERS OR 21 DAYS FOR NON-PRESTRESSED MEMBERS.
SLABS ____ AFTER STRESSING OF POST-TENSIONED BEAMS OR 21 DAYS FOR NON-PRESTRESSED MEMBERS.

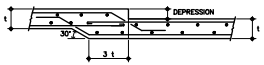
* UNDUE SUPERIMPOSED DEAD LOADS SHOULD NOT BE APPLIED DURING ANY SUBSEQUENT CURING PERIOD.

L.) CAMBERING:

* UNLESS OTHERWISE SPECIFIED BY THE ENGINEER OR ARCHITECT, CAMBER ARE TO BE PROVIDED FOR ALL SUSPENDED REINFORCED CONCRETE MEMBERS, AS FOLLOWS:

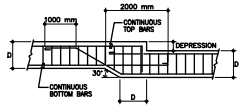
BEAMS ____ 12 mm PER 3.05 m.
SLABS ____ 12 mm PER 3.05 m.
CANTILEVERED BEAMS & SLABS ____ 25 mm PER 3.05 m.

UNDUE SUPERIMPOSED DEAD LOADS SHOULD NOT BE APPLIED DURING ANY SUBSEQUENT CURING PERIOD.



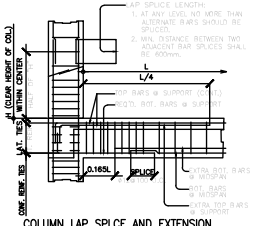
SLAB DEPRESSION DETAIL

NOT TO SCALE



BEAM DEPRESSION DETAIL

NOT TO SCALE



COLUMN LAP SPLCE AND EXTENSION
GIRDER TO COLUMN CONNECTION DET

NOT TO SCALE

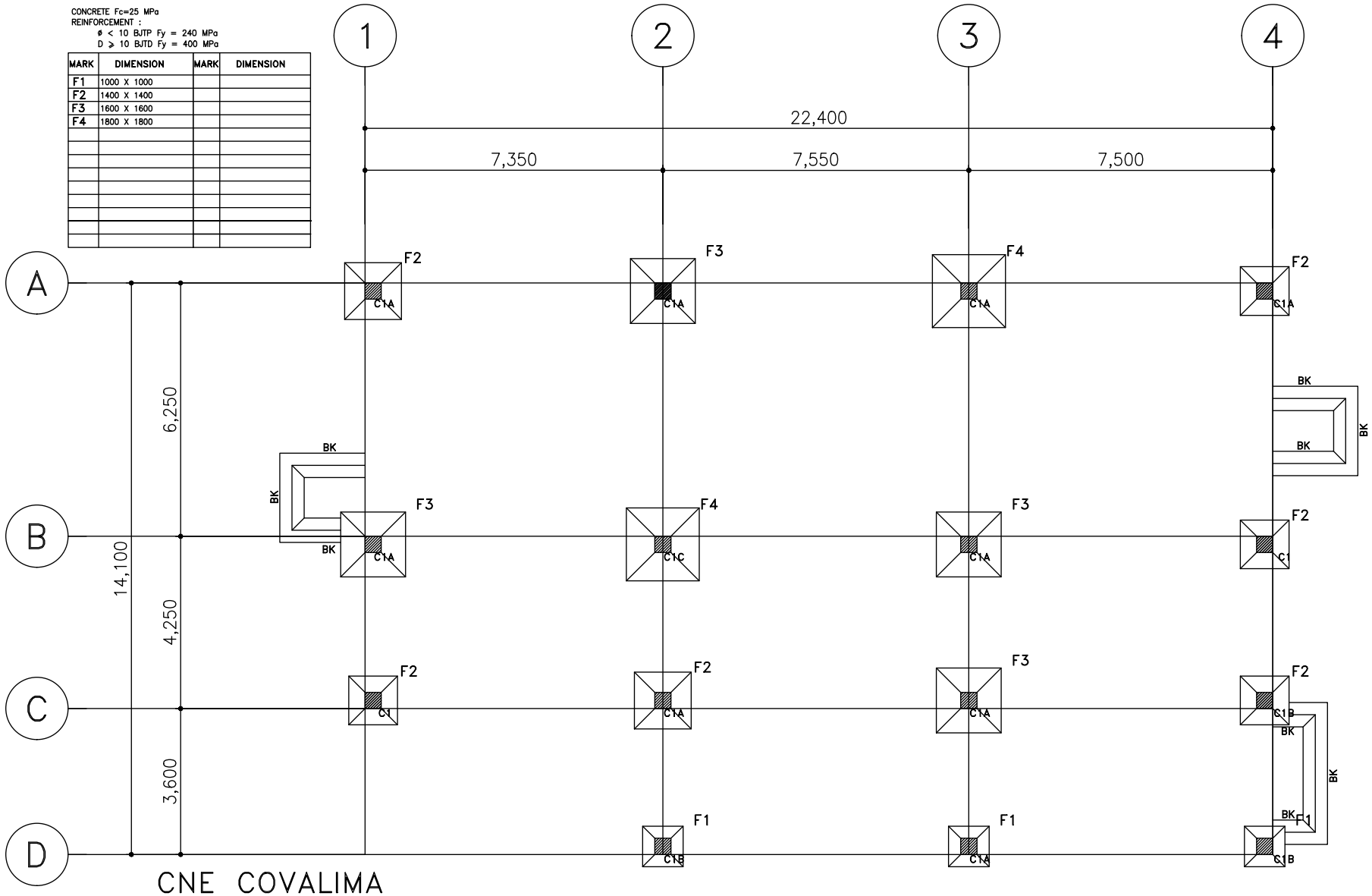
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	STRUCTURAL NOTES SPECIFICATIONS TYPICAL DETAILS			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	S0				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	BRP/SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

CONCRETE Fc=25 MPa
REINFORCEMENT :
ø < 10 BJTP Fy = 240 MPa
D ≥ 10 BJTD Fy = 400 MPa

MARK	DIMENSION	MARK	DIMENSION
F1	1000 X 1000		
F2	1400 X 1400		
F3	1600 X 1600		
F4	1800 X 1800		



CNE COVALIMA FOUNDATION PLAN

SKALA 1 : 50

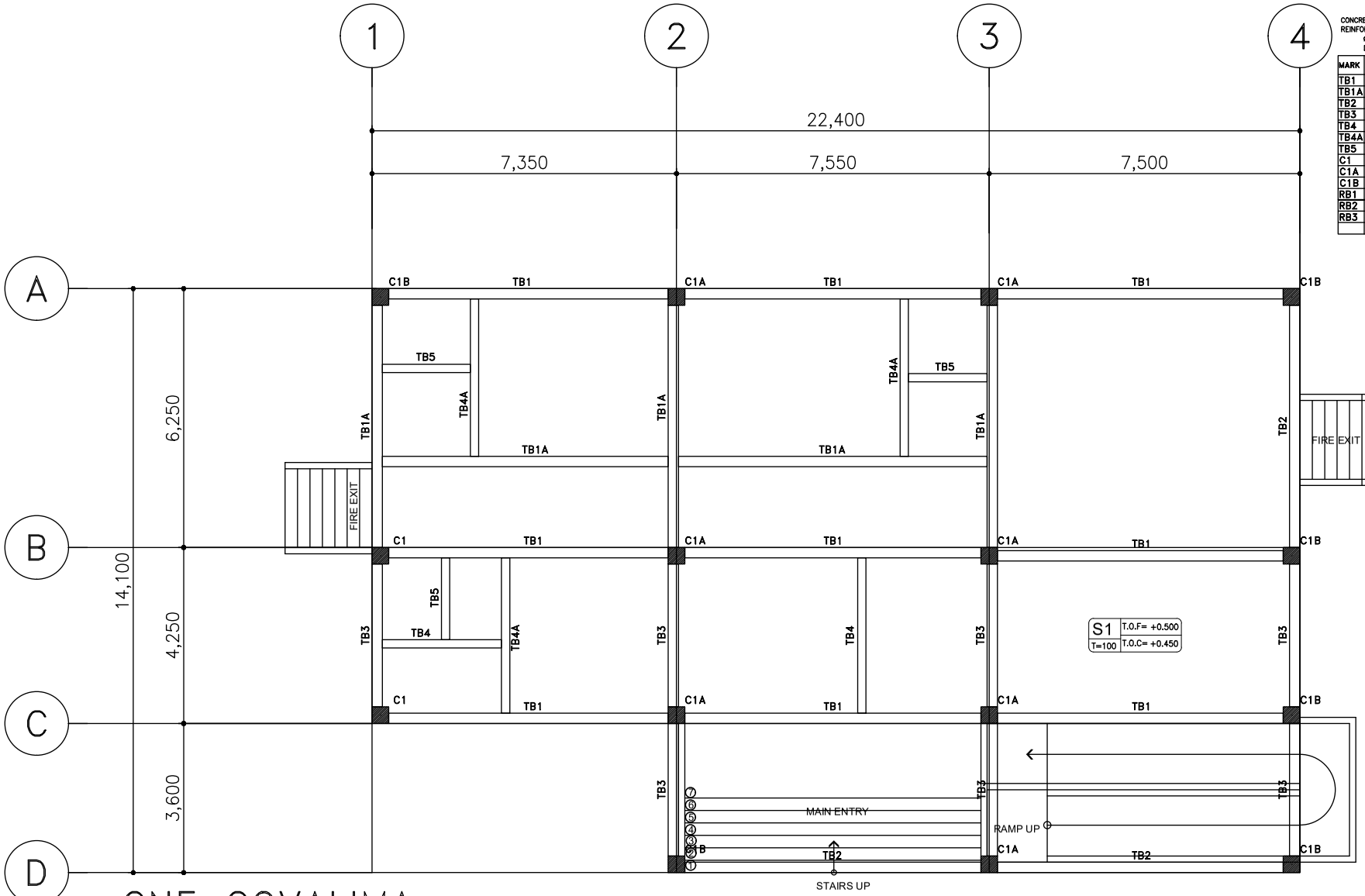
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVALIMA FOUNDATION PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVALIMA	S1				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

CONCRETE Fc=25 MPa
REINFORCEMENT :
ø < 10 BJTP Fy = 240 MPa
D > 10 BJTD Fy = 400 MPa

MARK	DIMENSION	MARK	DIMENSION
TB1	250 X 600		
TB1A	250 X 600		
TB2	250 X 500		
TB3	250 X 400		
TB4	200 X 400		
TB4A	200 X 400		
TB5	200 X 300		
C1	400 X 400		
C1A	400 X 400		
C1B	400 X 400		
RB1	200 X 600		
RB2	200 X 500		
RB3	200 X 300		



CNE COVALIMA
TIEBEAM & COLUMN FLOOR PLAN

SKALA 1 : 50

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVALIMA TIEBEAM & COLUMN FLOOR PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVALIMA	S2				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
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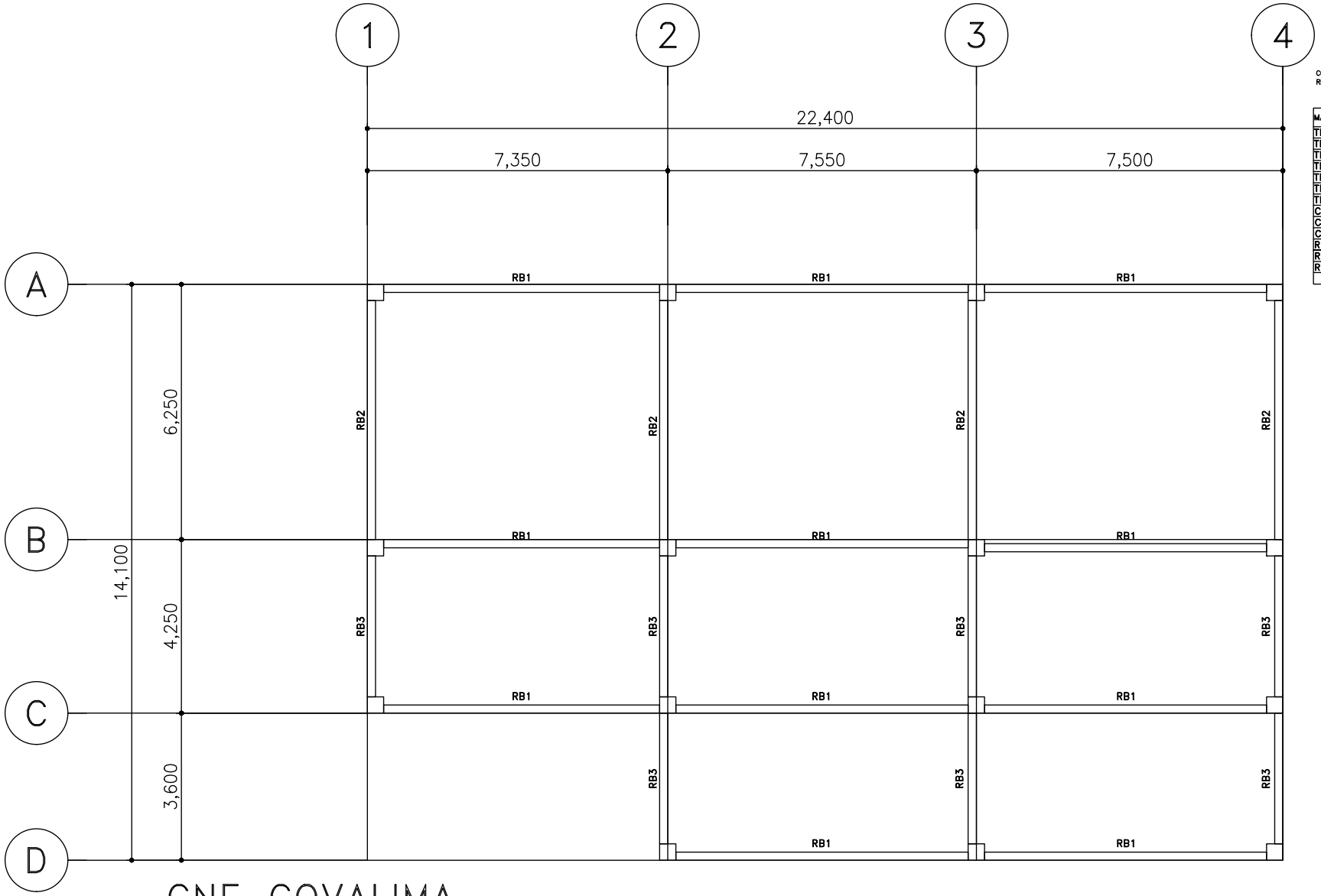
			ORIGINATOR			CLIENT	

REVISION HISTORY



CONCRETE Fc=25 MPa
REINFORCEMENT :
ø < 10 BJTP Fy = 240 MPa
D ≥ 10 BJTD Fy = 400 MPa

MARK	DIMENSION	MARK	DIMENSION
TB1	250 X 600		
TB1A	250 X 600		
TB2	250 X 500		
TB3	250 X 400		
TB4	200 X 400		
TB4A	200 X 400		
TB5	200 X 300		
C1	400 X 400		
C1A	400 X 400		
C1B	400 X 400		
RB1	200 X 600		
RB2	200 X 500		
RB3	200 X 300		

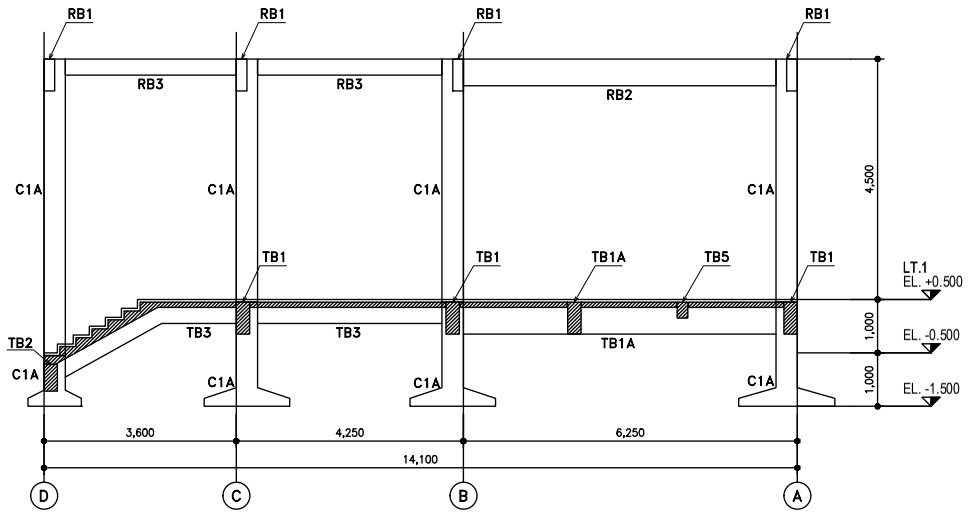
CNE COVALIMA
RING BEAM PLAN

SKALA 1 : 50

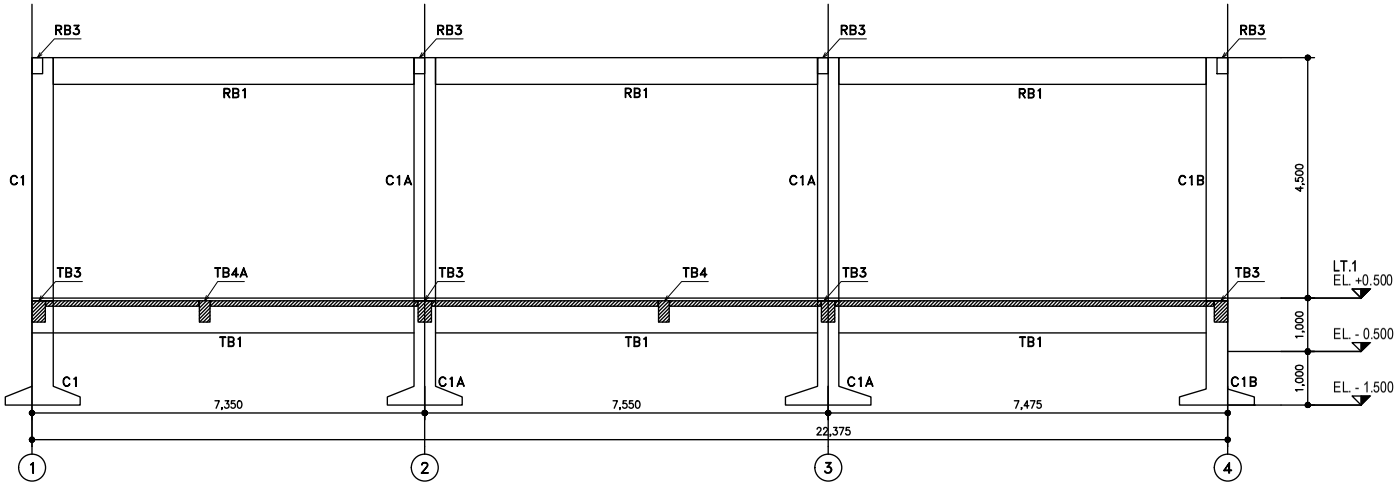
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVALIMA RING BEAM PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA, PROJECT MANAGER; ENGR. MD SHIRAJUL ISLAM, CIVIL ENGINEER SPECIALIST
COVALIMA	S3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	GRP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
SECTION LINE – 3
SKALA 1 : 50



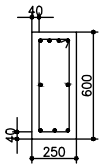
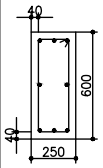
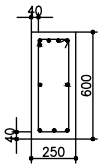
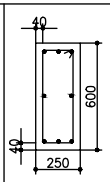
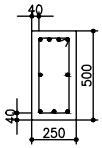
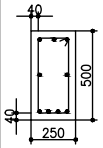
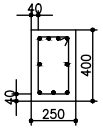
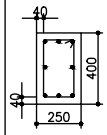
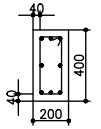
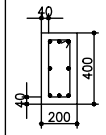
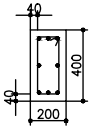
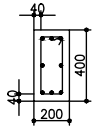
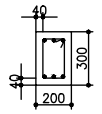
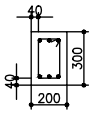
CNE COVA LIMA
SECTION LINE – C
SKALA 1 : 50

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVALIMA FOUNDATION SECTION			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVALIMA	S4				

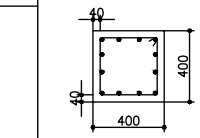
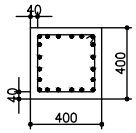
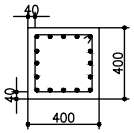
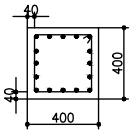
REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			–	–	–		
			ORIGINATOR			CLIENT	

REVISION HISTORY

TIEBEAM DETAIL 1 ST FLOOR

TYPE / DIMENSI	TB1 250 x 600		TB1A 250 x 600		TB2 250 x 500		TB3 250 x 400		TB4 200 x 400		TB4A 200 x 400		TB5 200 x 300	
TIE-BEAM														
Position	End	Mid	End	Mid	End	Mid	End	Mid	End	Mid	End	Mid	End	Mid
TOP REBAR	4-D16	3-D16	5-D16	3-D16	4-D13	3-D13	4-D13	3-D13	3-D10	3-D10	3-D13	3-D13	3-D10	3-D10
MID REBAR	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	2-D10	-	-
BOT REBAR	3-D16	3-D16	3-D16	3-D16	3-D13	4-D13	3-D13	3-D13	3-D10	3-D10	3-D13	3-D13	3-D10	3-D10
Stirrup	D10-100	D10-150	D10-100	D10-150	D10-100	D10-150	D10-100	D10-150	D10-100	D10-150	D10-100	D10-150	D10-100	D10-150

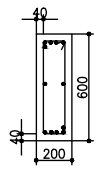
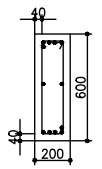
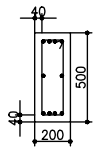
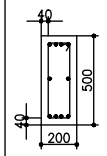
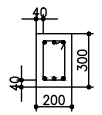
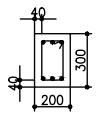
COLUMN DETAIL 1 ST FLOOR

TYPE	DIMENTION		TYPE	DIMENTION		TYPE	DIMENTION		TYPE	DIMENTION	
C1	400 x 400		C1A	400 x 400		C1B	400 x 400		C1C	400 x 400	
SKEMATIK			SKEMATIK			SKEMATIK			SKEMATIK		
Main Rebar	End	Mid	Main Rebar	End	Mid	Main Rebar	End	Mid	Main Rebar	End	Mid
	12-D16			18-D16			16-D13			16-D19	
Stirrup	D10-150	D10-150	Stirrup	D10-150	D10-150	Stirrup	D10-150	D10-150	Stirrup	D10-150	D10-150

CONCRETE Fc=25 MPa
REINFORCEMENT :
ø < 10 BJTP Fy = 240 MPa
D ≥ 10 BJTD Fy = 400 MPa

MARK	DIMENSION	MARK	DIMENSION
TB1	250 X 600		
TB1A	250 X 600		
TB2	250 X 500		
TB3	250 X 400		
TB4	200 X 400		
TB4A	200 X 400		
TB5	200 X 300		
C1	400 X 400		
C1A	400 X 400		
C1B	400 X 400		
RB1	200 X 600		
RB2	200 X 500		
RB3	200 X 300		

RING BEAM DETAIL

TYPE / DIMENSI	RB1 200 x 600		RB2 200 x 500		RB3 200 x 300	
RING-BEAM						
Posisi	End	Mid	End	Mid	End	Mid
TOP REBAR	5-D10	5-D10	4-D10	4-D10	3-D10	3-D10
MID REBAR	2-D10	2-D10	2-D10	2-D10	-	-
BOT REBAR	5-D10	5-D10	4-D10	4-D10	3-D10	3-D10
Stirrup	D10-100	D10-150	D10-100	D10-150	D10-150	D10-150

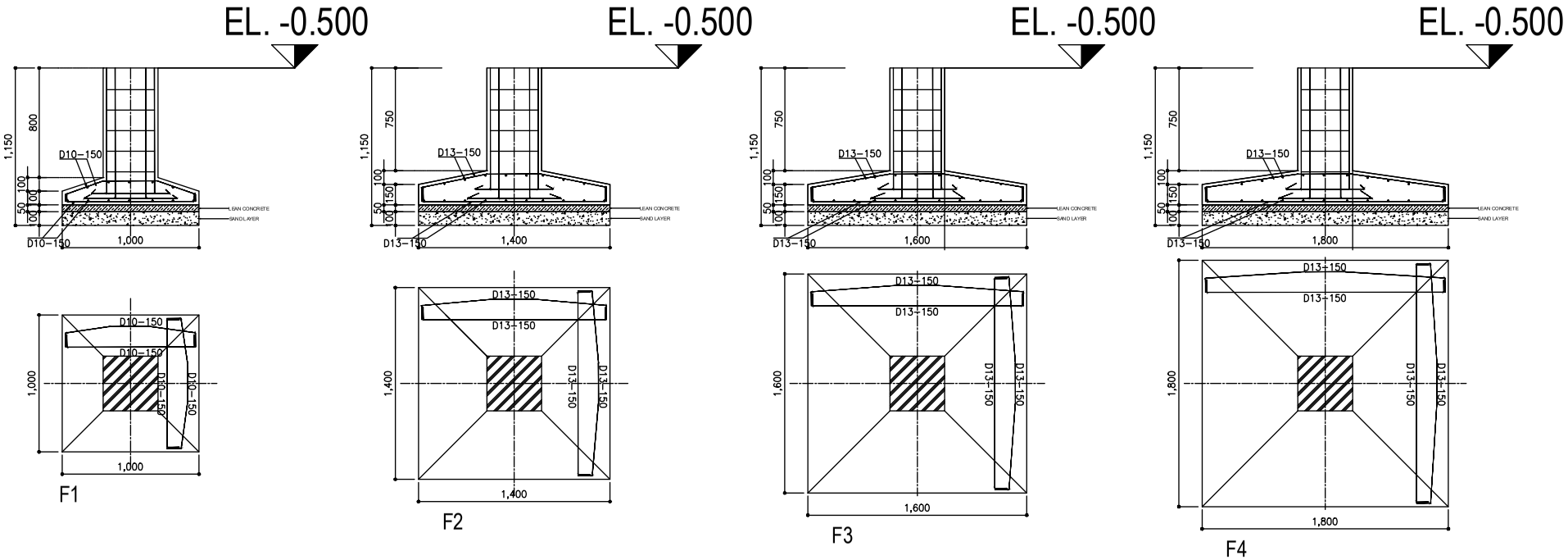
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	DETAIL OF TIE BEAM DETAIL OF RING BEAM DETAIL OF COLUMN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVALIMA	S5				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

CONCRETE Fc=25 MPa
REINFORCEMENT :
ø < 10 BJTP Fy = 240 MPa
D ≥ 10 BJTD Fy = 400 MPa

MARK	DIMENSION	MARK	DIMENSION
F1	1000 X 1000		
F2	1400 X 1400		
F3	1600 X 1600		
F4	1800 X 1800		

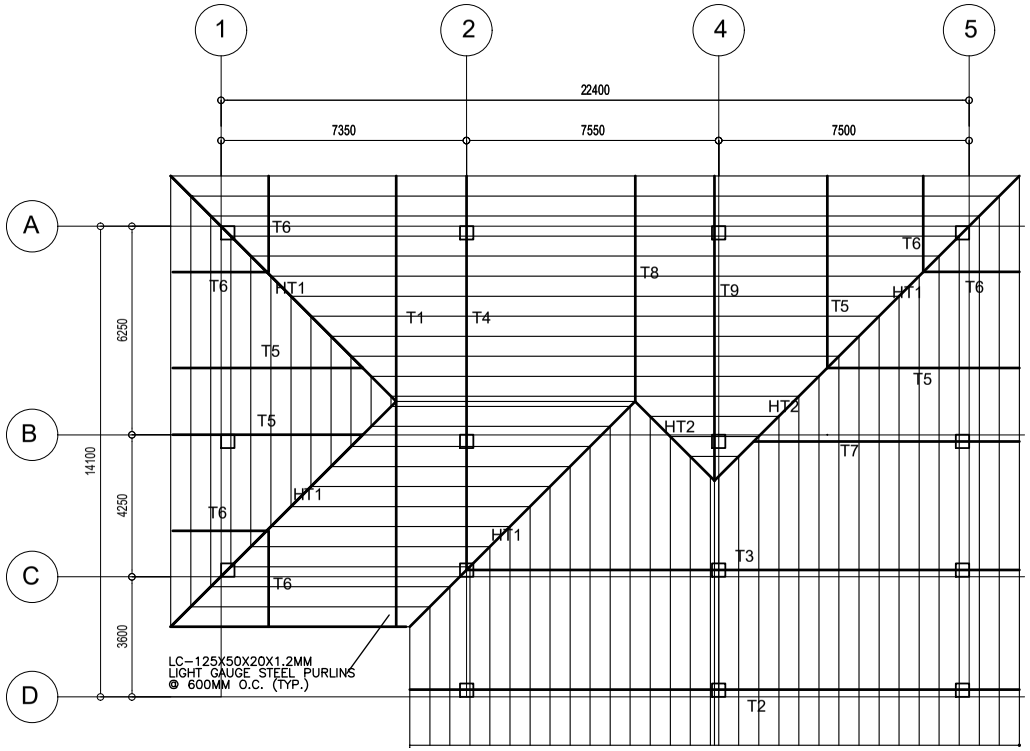


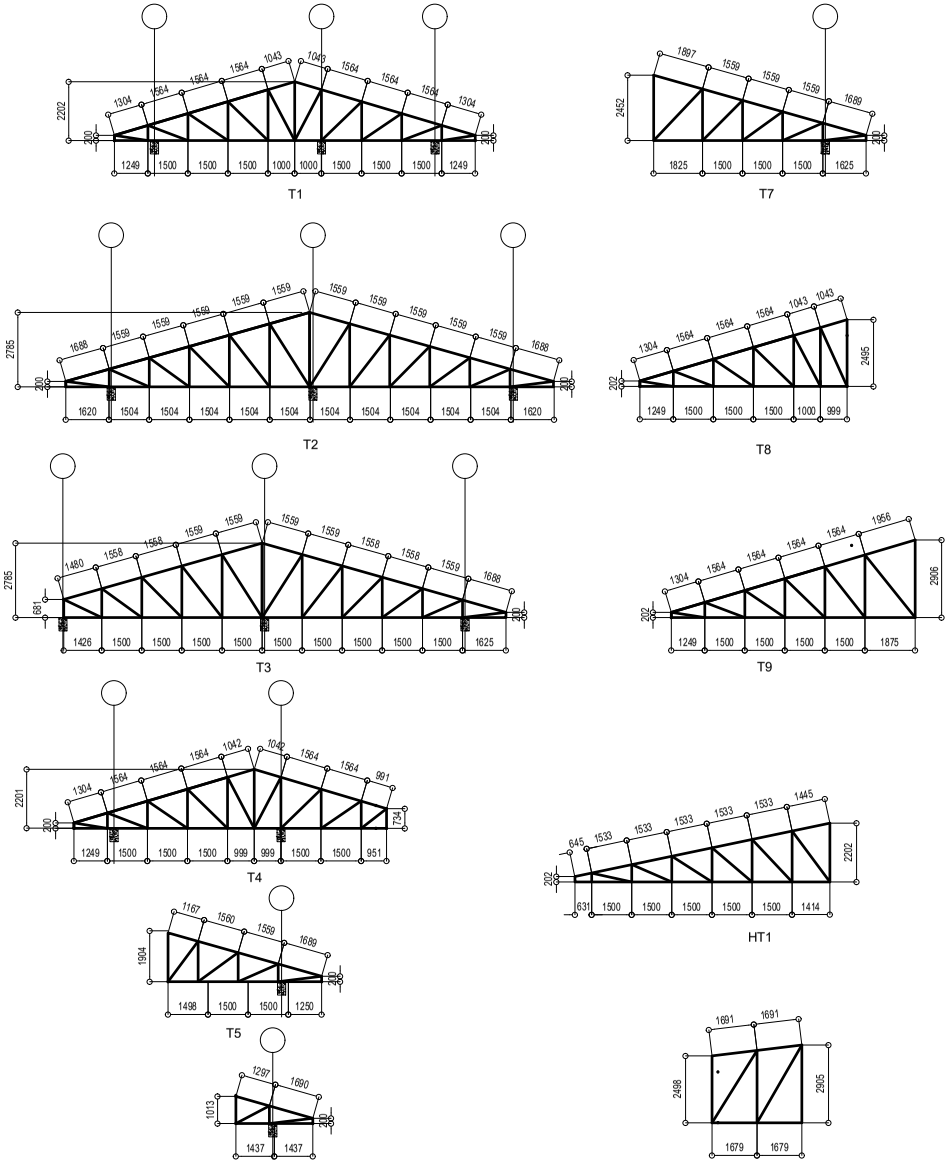
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVALIMA DETAIL FOUNDATION			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVALIMA	S6				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

TRUSSES:
TOP AND BOTTOM CHORDS: 2L 75X75X8
VERTICAL MEMBERS: 2L 50X50X6
DIAGONAL MEMBERS: 2L 50X50X4





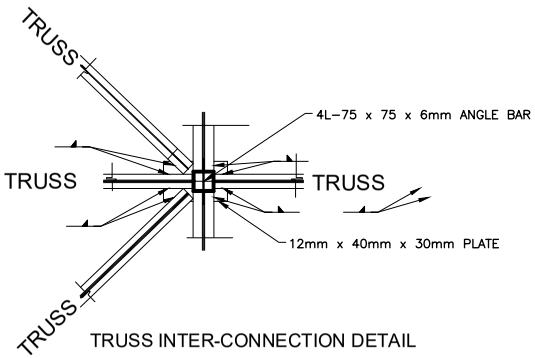
CNE COVA LIMA
FLOOR PLAN
SCALE: 1:80 MTS

ROOF TRUSSES
NOT TO SCALE

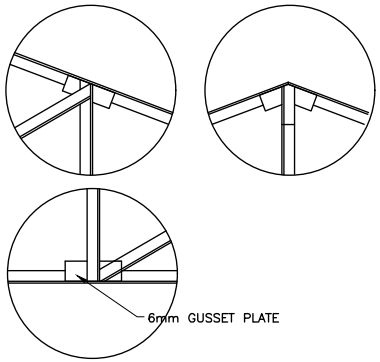
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA ROOF FRAMING PLAN ROOF TRUSSES			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	S7				

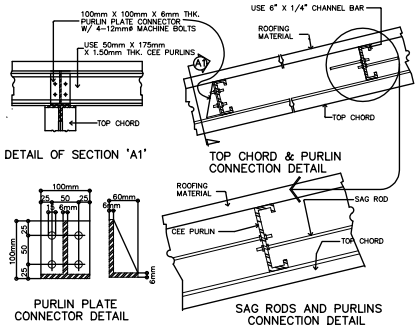
REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	BRP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

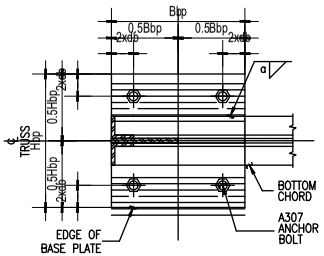


TRUSS INTER-CONNECTION DETAIL

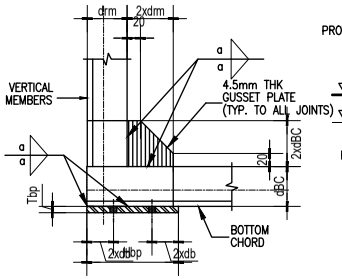




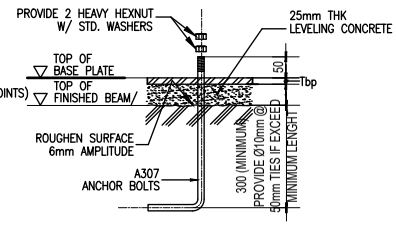
PURLIN CONNECTION DETAIL
NOT TO SCALE



PLAN



SECTION

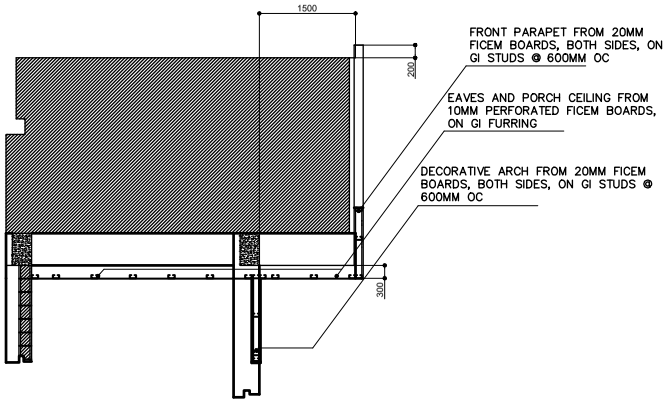


ANCHOR BOLT DETAIL

DEFINITION:
dbc = DEPTH OF BOTTOM CHORD MEMBER
dvm = DEPTH OF VERTICAL MEMBER
db = DIAMETER OF BOLT
Tbp = BASE PLATE THICKNESS
Bbp = WIDTH OF BASEPLATE
Hbp = LENGTH OF BASEPLATE
a = WELD LEG

SCHEDULE OF TRUSS TO BASEPLATE CONNECTION

BASEPLATE MARK	DIMENSIONS			BOLTS			WELD LEG "a" (mm)
	Bbp(mm)	Hbp(mm)	Tbp(mm)	ø(mm)	No.	LENGHT(mm)	
BP1 (TYP.)	250	400	16	ø20–A307	4	400	12

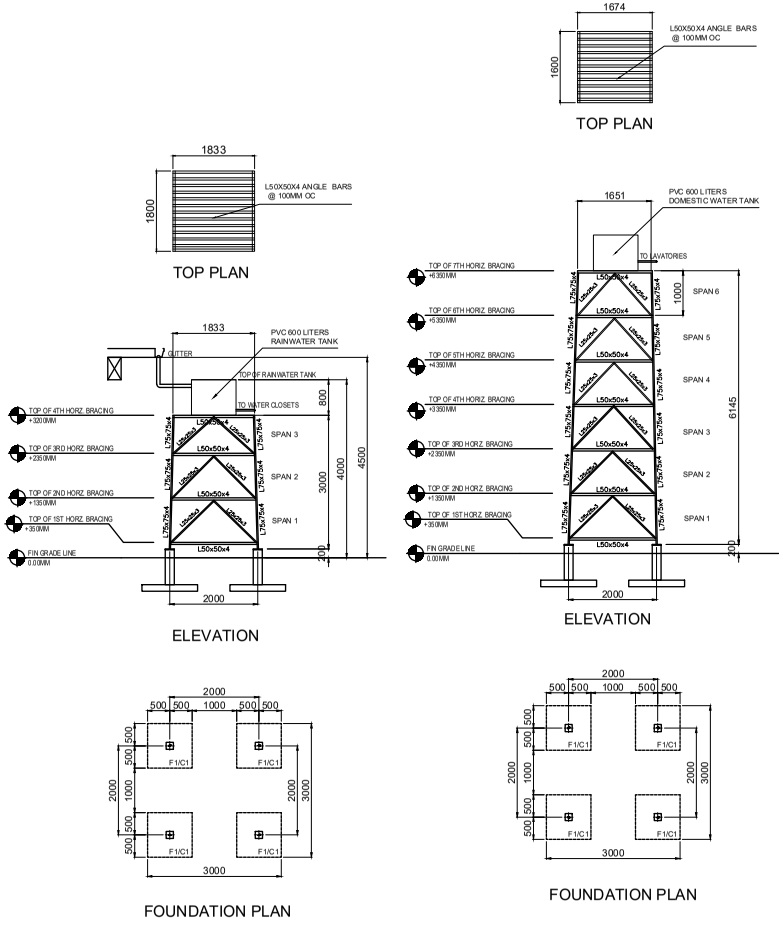


DETAIL OF PARAPET, DECORATIVE ARCH AND EAVES
NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA TRUSS INTER-CONNECTION DETAIL PURLIN CONNECTION DETAIL SCHEDULE OF TRUSS TO BASEPLATE CONNECTION DETAIL OF PARAPET, DECORATIVE ARCH AND EAVES			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	S8				

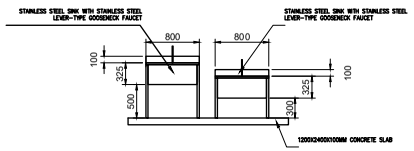
REV	DATE	MARK / DESCRIPTION	– DRAWN BY	– CHECKED	– CHECKED	SURVEY REVIEWED	BRP/SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



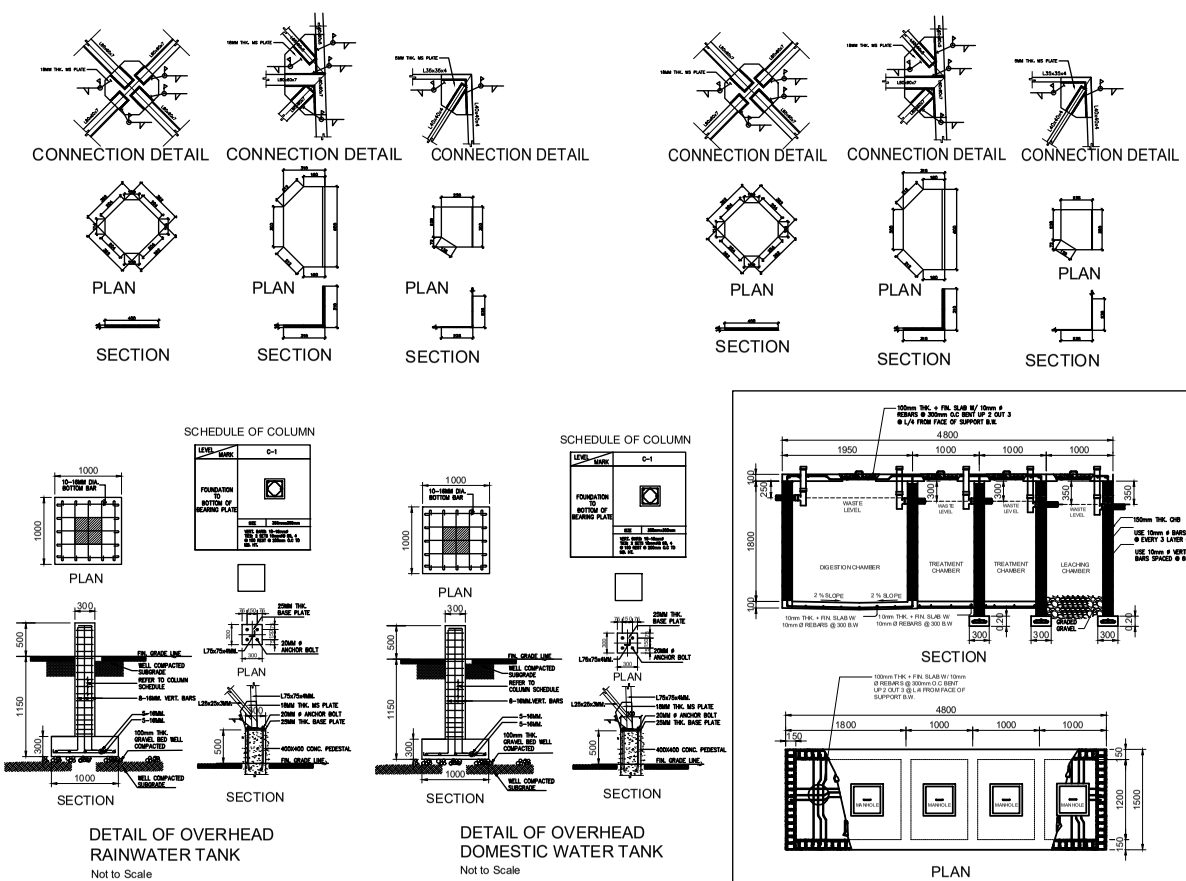
DETAIL OF WATER TANK TOWERS

SCALE 1 : 60 M



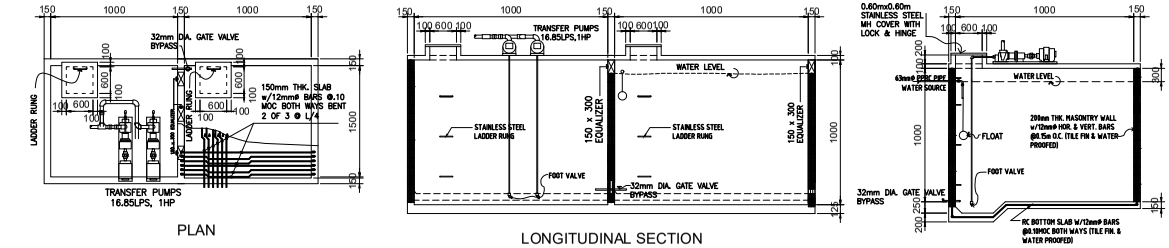
WASHING STATION DETAIL

NOT TO SCALE



DETAIL OF SEPTIC TANK

SCALE 1 : 40 M



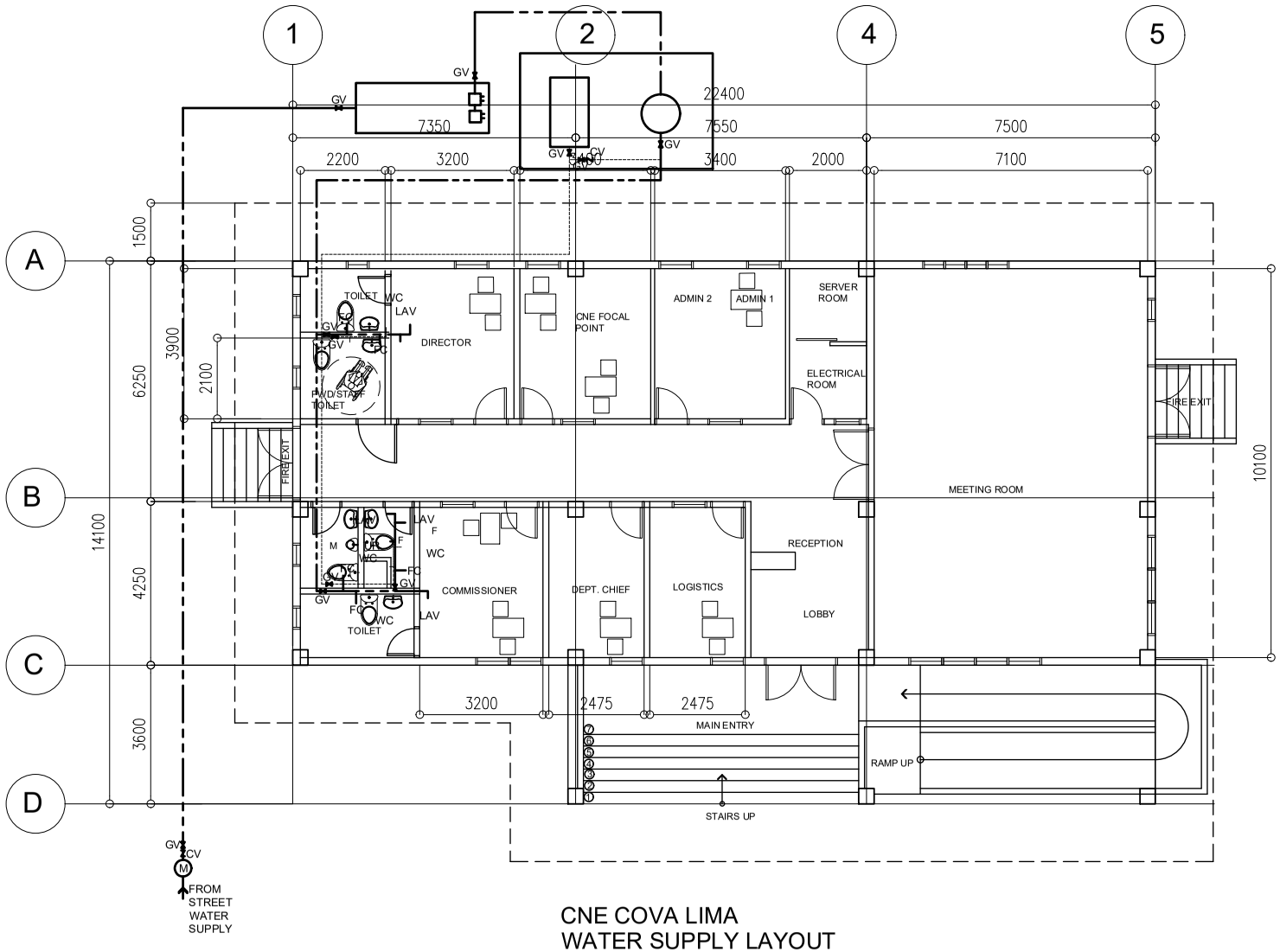
DETAIL OF UNDERGROUND WATER TANK

SCALE 1 : 60 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	DETAIL OF OVERHEAD DOMESTIC WATER TANK DETAIL OF OVERHEAD RAINWATER TANK CISTERN AND SEPTIC TANK DETAIL			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
CNE COVA LIMA	P1				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



LEGEND

- WATER METER
- TRANSFER PUMPS
- GV GATE VALVE
- CV CHECK VALVE
- FC FAUCET
- LAV LAVATORY
- UR URINAL
- WC WATER CLOSET
- CO CLEAN OUT
- FD FLOOR DRAIN
- VSTR VENT STACK THRU ROOF
- FCO FLOOR CLEAN OUT

CNE COVA LIMA
WATER SUPPLY LAYOUT

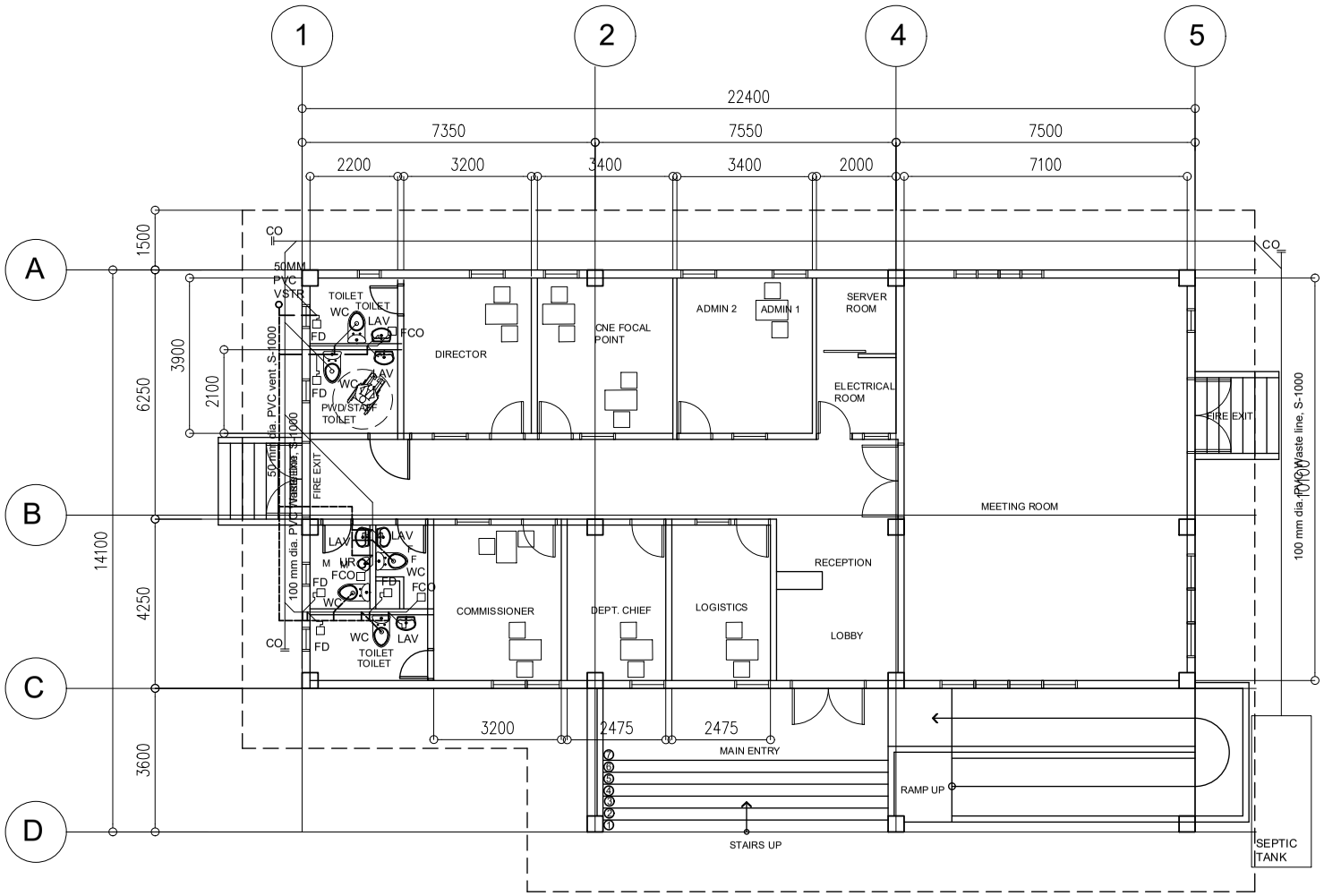
SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA WATER SUPPLY LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	P2				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



LEGEND

- M — WATER METER
- TRANSFER PUMPS
- GV — GATE VALVE
- CV — CHECK VALVE
- FC — FAUCET
- LAV — LAVATORY
- UR — URINAL
- WC — WATER CLOSET
- CO — CLEAN OUT
- FD — FLOOR DRAIN
- VSTR — VENT STACK THRU ROOF
- FCO — FLOOR CLEAN OUT

CNE COVA LIMA
SEWER LINE LAYOUT

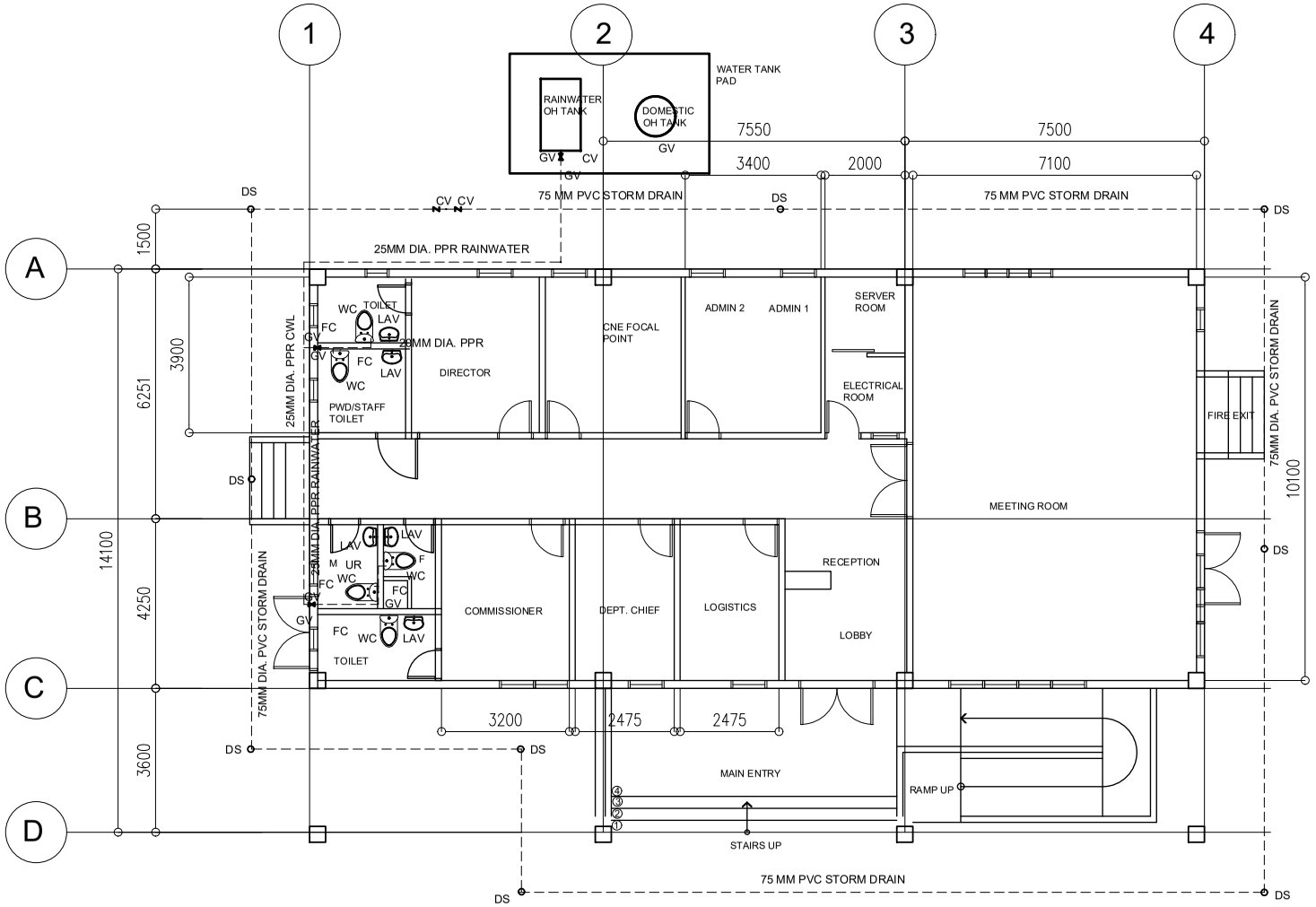
SCALE: 1:60 MTS

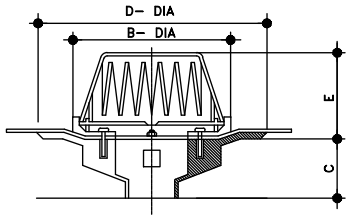
1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SEWER LINE LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	P3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ENP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY





PIPE SIZE (MM)	DIMENSION IN MILEMETER (MM)				REMARKS
A⌀	B	C	D	E	
50	180	100	230	100	PROVIDE MESH STRAINER
75	180	100	230	100	
100	180	100	230	100	

ROOF DRAIN DETAIL
NTS

CNE COVA LIMA
STORM DRAINAGE LAYOUT

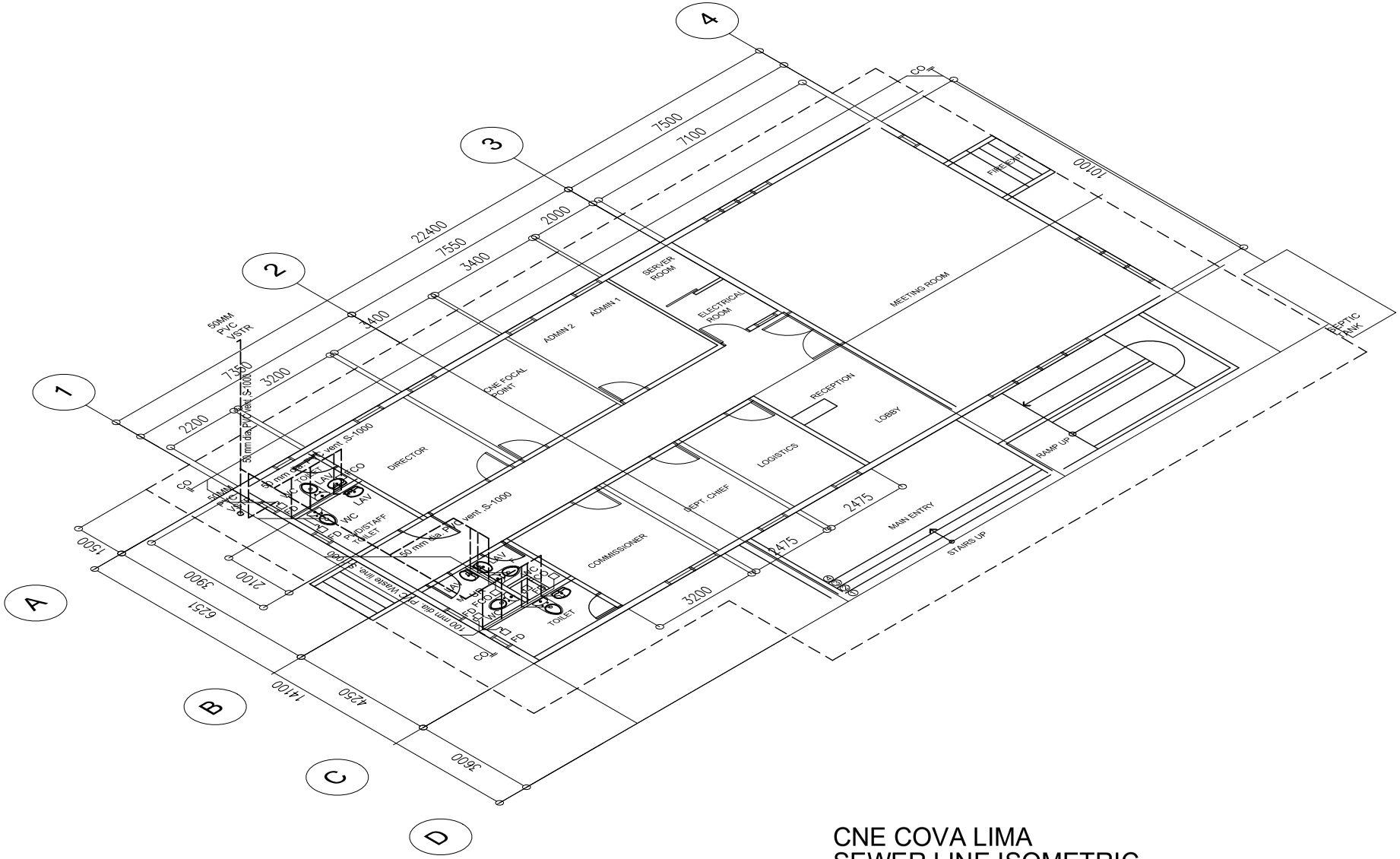
SCALE: **1:60 MTS**

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA STORM DRAINAGE LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	P4				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



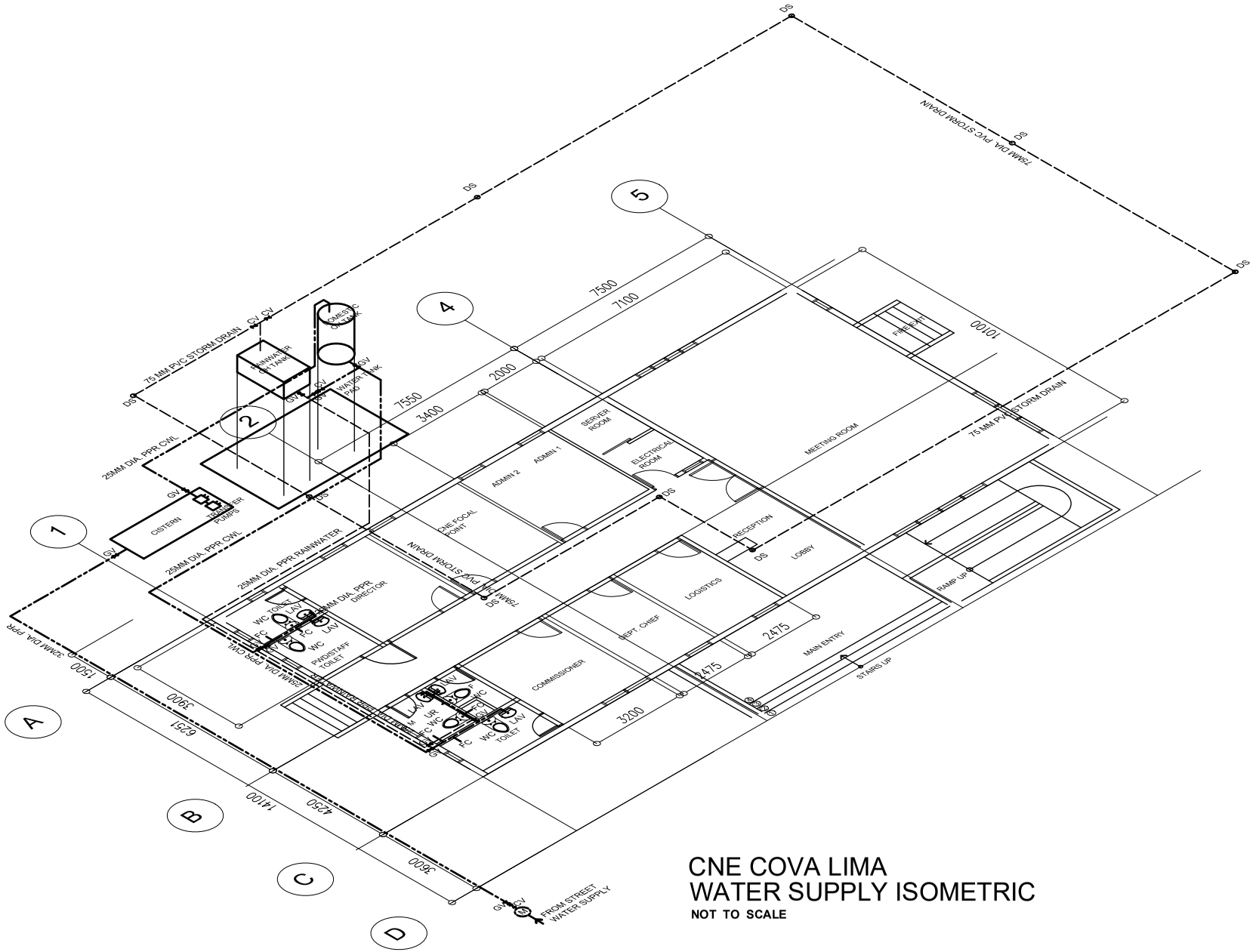
CNE COVA LIMA
SEWER LINE ISOMETRIC

NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA ISOMETRIC SEWER LINE LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) — ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	P5				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
WATER SUPPLY ISOMETRIC

NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA ISOMETRIC WATER SUPPLY LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	P6				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

GENERAL NOTES:

ALL WORK SHALL COMPLY WITH THE LATEST APPROVED EDITION OF THE LOCAL ELECTRICAL CODE ; WITH THE RULES & REGULATIONS LOCAL AUTHOTIES AND/OR GOVERNMENT AGENCIES CONCERNED IN THE ENFORCEMENT OF, ELECTRICAL, FIRE/SAFETY & BUILDING CODES; AND WITH THE RULES/REGULATIONS OF THE LOCAL ELECTRIC UTILITY COMPANY HAVING JURISDICTION IN THE AREA, WHERE THE PROPOSED FACILITY SHALL BE CONSTRUCTED.

1. SERVICE TO THE BUILDING/FACILITY SHALL BE 230VAC, 1PH, 2W, 50HZ WITH GREEN PVC INSULATED GROUND WIRE (PHASE, N, + G) REQUIRED SIZES OF SERVICE ENTRANCE CONDUIT/WIRES SHALL BE AS SHOWN ON THE POWER SINGLE LINE DIAGRAM.

2. WIRING METHODS SHALL BE AS FOLLOWS:
   - 2.a POWER/AUXILIARY SERVICE ENTRANCE - INTERMEDIATE METAL CONDUITS (IMC).
   - 2.b EXPOSED INSTALLATIONS - INTERMEDAITE METAL CONDUITS (IMC).
   - 2.c INSTALLATIONS INSIDE DROP CEILINGS & DOUBLE WALLS/PARTITIONS - ELECTRICAL METALLIC TUBING (EMT 20mm DIA. MAX'M).
   - 2.d BELOW GRADE INSTALLATIONS - CONCRETE ENCASED RIGID PVC CONDUITS, (PVC SCHL #40 MIN'M) WITH 100MM THICK MIN'M CONCRETE ENVELOPE.
   - 2.e AUXILIARY SYSTEMS - RIGID POLYVINYL CHLORIDE CONDUITS,(PVC SCHL #40 MIN'M).
   - 2.f FIRE ALARM SYSTEMS - (WHEN REQUIRED) INTERMEDIATE METAL CONDUITS (IMC) WITH FIRE RETARDANT COATING
   - 2.g OUTDOOR EXPOSED INSTALLATIONS - INTERMEDIATE/FLEXIBLE METALLIC CONDUITS PVC JACKETTED WITH LIQUIDTIGHT FITTINGS.

3. WIRES AND CABLES SHALL BE OF HIGH CONDUCTIVITY COPPER INSULATED FOR 600VAC, TYPE THW/THHN, SIZE 3.5MM2 (MIN). COLOR CODING AS FOLLOWS:
   - 3.a PHASE-A or LINE-1 - RED
   - 3.b PHASE-B or LINE-2 - YELLOW
   - 3.c PHASE-C or LINE-3 - BLUE
   - 3.d NEUTRAL - WHITE
   - 3.e GROUNDING or EARTHING - GREEN OR GREEN WITH YELLOW STRIPES

4. RIGID/INTERMEDIATE & FLEXIBLE STEEL/METAL CONDUITS SHALL BE HOT DIPPED GALVANIZED STEEL, 15MM DIA (MIN) OF STANDARD LENGTH;

5. POLYVINYL CHLORIDE (PVC) CONDUITS SHALL BE ELECTRICAL GRADE RIGID TYPE WITH MATCHING FITTINGS SCHL#40 (MINIMUM).

6. BOXES AND FITTINGS SHALL BE HOT DIPPED GALVANIZED, PRESSED SHEET STEEL, DEEP TYPE, WITH STANDARD SIZES & KNOCK OUTS; GA#16 (MINIMUM)

7. MOUTING HEIGHTS SHALL BE AS FOLLOWS:
   - 7.a WALL MOUNTED SWITCHES - 1.400 FROM FINISHED FLOOR LINE ON CENTER.
   - 7.b WALL MOUNTED POWER OUTLETS - 0.500 FROM FINISHED FLOOR LINE; OR COUNTER TOPS, ON CENTER.
   - 7.c WALL MOUNTED AUXILIARY OUTLETS - 0.500 FROM FINISHED FLOOR LINE; OR COUNTER TOPS, ON CENTER.
   - 7.d DISCONECT WITCHES/PANELBOARDS - 1.400 FROM FINISHED FLOOR LINE (OR AS REQUIRED BY EQIPT SERVED, ON CENTER).
   - 7.e ACU & OTHER SPECIAL OUTLETS - 2.500 FROM FINISHED FLOOR LINE (OR AS REQUIRED BY EQIPT SERVED, ON CENTER).
   - 7.f WALL MOUNTED EXIT LIGHT OUTLETS - 0.300 FROM CEILING LINE ON CENTER.
   - 7.g WALL EMERGENCY LIGHT OUTLETS - 0.300 FROM CEILING LINE ON CENTER.
   - 7.h WALL MOUNTED EXH FAN OUTLETS - 0.300 FROM CEILING LINE ON CENTER.

   ALL MOUNTING HEIGHTS SHALL BE SUBJECT TO PROJECT ARCHITEC'S &/OR CLIENT'S APPROVAL PRIOR TO INSTALLATION.

8. ALL ELECTRICAL MATERIALS, DEVICES, FIXTURES & EQUIPMENT SHALL BE NEW AND OF STANDARD SIZES & RATINGS; AND SHALL BE SUBJECT TO PROJECT ARCHITECT'S &/OR CLIENT'S APPROVAL PRIOR TO INSTALLATION.

9. ELECTRICAL LAYOUTS & DIAGRAMS ARE SHOWN DIAGRAMATICLLY; ACTUAL LOCATIONS & ROUTINGS SHALL BE COORDINATED WITH THE EXISTING FIELD CONDITIONS AND WITH THE OTHER DISCIPLINE/TRADE CONTRACTORS.

10. ALL ELECTRIACAL WORKS/INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE DULLY APPROVED PROJECT CONSTRUCTION DRAWINGS & SPECIFICATIONS; AND SHALL BE SUPERVISED BY A DULLY LICENSED ELECTRICAL ENGINNER &/OR MASTER ELECTRICIAN.

11. ALL THE NECESSARY BUILDING ELECTRICAL PERMITS INCLUDING THE CERTIFICATE OF FINAL ELECTRICAL INSPECTION, SHALL BE SECURED BY THE CLIENT-APPROVED/DESIGNATED ELECTRICAL CONTRACTOR.

12. ALL ELECTRICAL INSTALLATIONS SHALL BE TESTED AND CERTIFIED BY THE ELECTRICAL CONTRATOR PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF FINAL ELECTRICAL INSPECTION & OCCUPANCY; BY THE NATIONAL/LOCAL GOVERNMENT UNIT OR AUTHORITIES, HAVING JURISDICTION. ELECTRICAL INSPECTION, TESTING & ACCEPTANCE SHALL BE WITNESSED BY THE DESIGNATED LOCAL BUILDING AUTHORITIES & WITH THE CLIENT-DESIGNATED SITE ENGINEER &/OR REPRESENTATIVES.

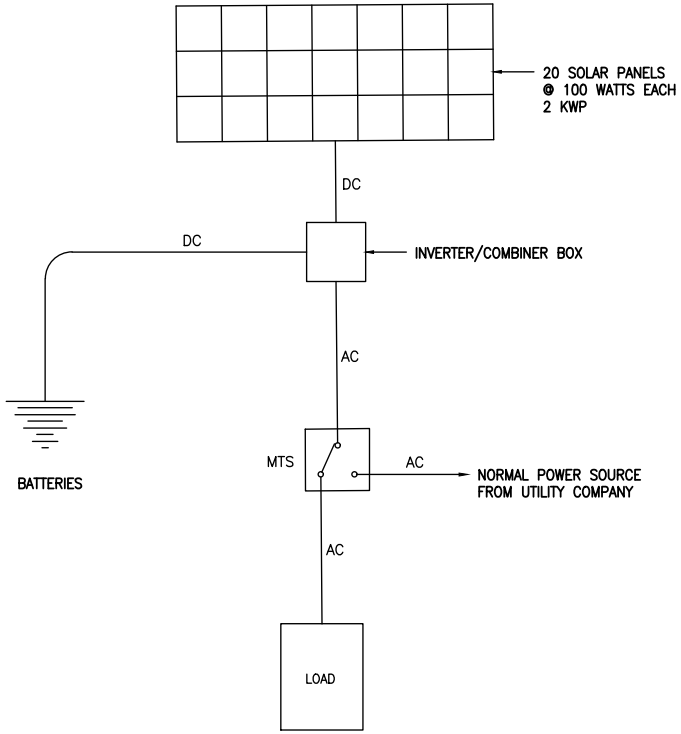
LEGEND & SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING
	CEILING LIGHT OUTLET WITH 100W LED TYPE LIGHTING FIXTURE, "PHILIPS" OR APPROVED EQUAL (FOR OFFICE AREAS/MEETING RMS)	CEILING / RECESSED
	PINLIGHT OUTLET WITH 50W LED TYPE LIGHTING FIXTURE "PHILIPS" OR APPROVED EQUAL (FOR HALLWAYS/EVES/COMMON AREAS)	CEILING / RECESSED
	GARDEN LIGHTING FIXTURE WITH 50W LED LIGHTING FIXTURE OUTDOOR TYPE (AS MAY BE REQUIRED/APPROVED)	WALL / SURFACE
a	SPST WALL SWITCH, 10A, 230VAC, WITH MATCHING PLATE COVER "PANASONIC" BRAND OR APPROVED EQUAL	WALL / FLUSH
abc	---do--- BUT WITH 2 OR 3 SPST SWITCH IN ONE PLATE COVER "PANASONIC" BRAND OR APPROVED EQUAL	WALL / FLUSH
3W	3 OR 4 WAY SWITCH WITH MATCHING PLATE COVER "PANASONIC" BRAND OR APPROVED EQUAL	WALL / FLUSH
	DUPLEX CONVENIENCE OUTLET 15A, 250VAC PARALLEL SLOTS, GROUNDING TYPE, WITH MATCHING PLATE COVER, PANASONIC or APPROVED EQUAL	WALL / FLUSH
c	---do--- BUT 300MM ABOVE COUNTER TOP	WALL / FLUSH
WP	---do--- BUT WITH WEATHERPROOF PLATE	WALL / FLUSH
EX	---do--- BUT FOR EXHAUST FAN	WALL / FLUSH
ACU	---do--- BUT FOR ACU OUTLET	WALL / FLUSH
----------	CONDUIT OR TUBING RUN EXPOSED/INSIDE CEILING OR UNDERFLOOR; HASH MARKS INDICATE NUMBER OF WIRES	N/A
	POWER SERVICE ENTRANCE 230VAC, 1-PH, 3-WIRES, 50Hz	N/A
	POWER SERVICE ENRANCE	
	KWHR METER	
	PANELBOARD	
MTS	MANUAL TRANSFER SWITCH	
	WALL EXHAUST FAN	
	CEILING MOUNTED EXHAUST FAN	
SERV	SERVER OUTLET	
REF	REFRIGERATOR OUTLET	

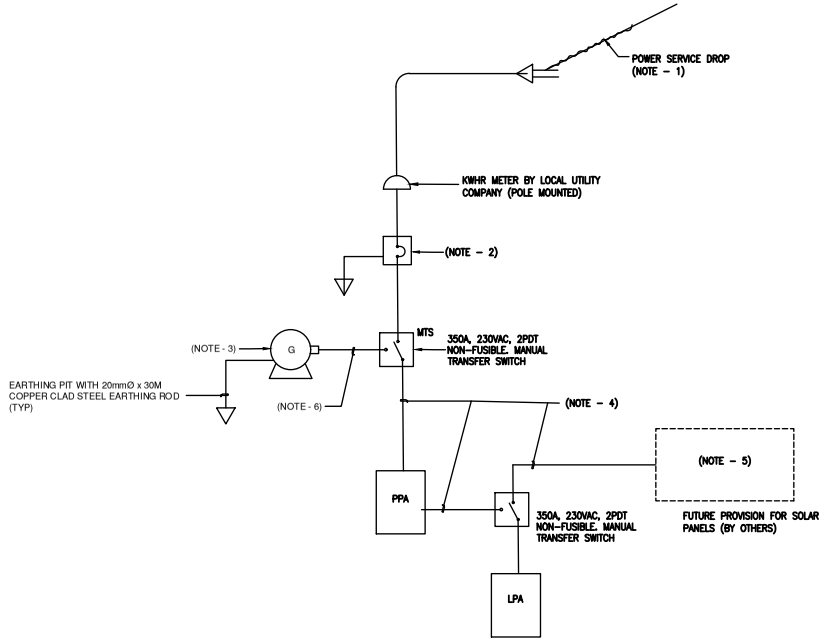
PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	GENERAL NOTES, LEGEND AND SYMBOLS			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	E1				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



SOLAR PANEL
SINGLE LINE DIAGRAM



STAE SITE POWER
SINGLE LINE DIAGRAM

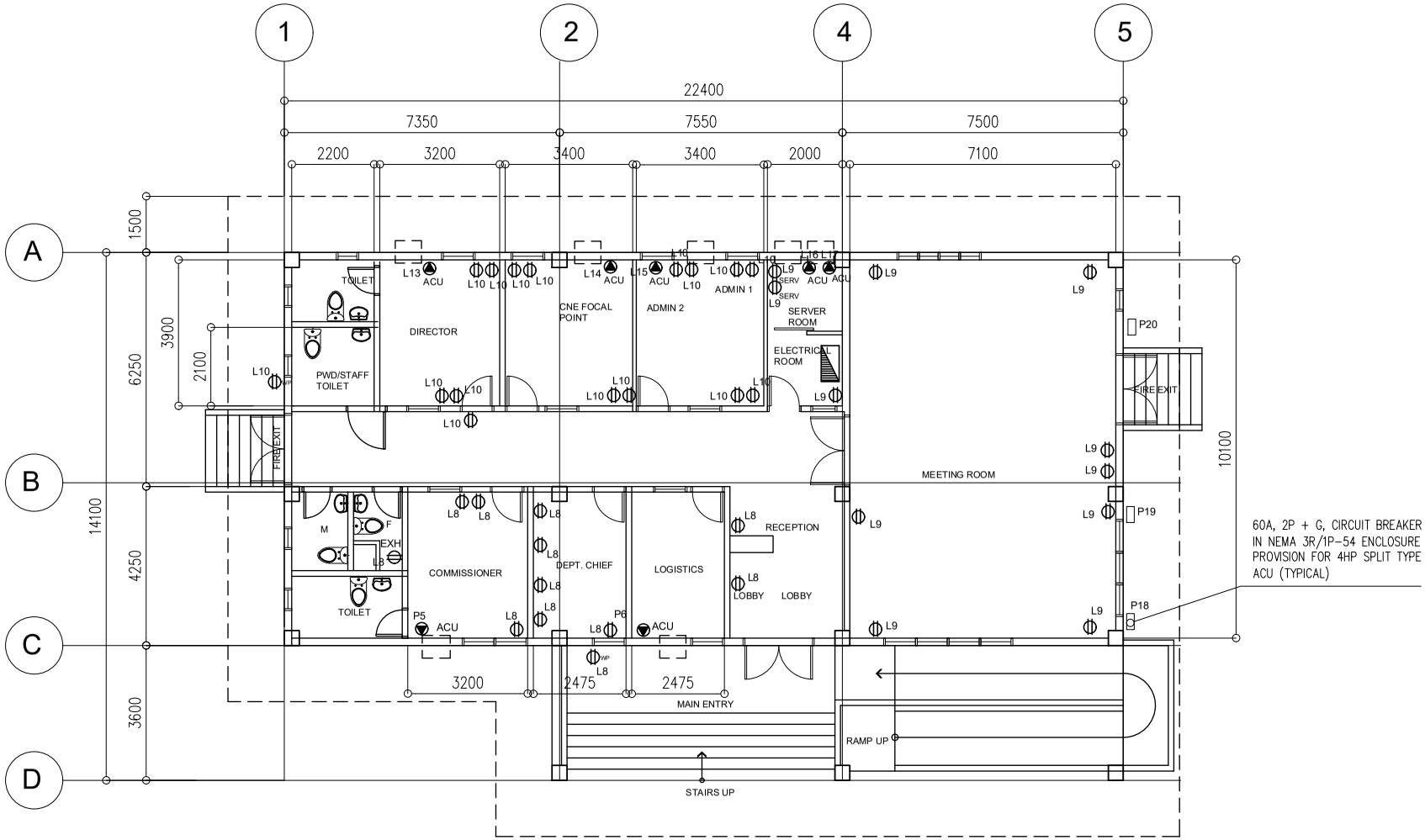
NOTES:

1. POWER SERVICE DROP BY LOCAL UTILITY COMPANY, OVERHEAD 230VAC, 1PH, 3W, (L+N+G) 50HZ. COORDINATE WITH LOCAL UTILITY COMPANY REPRESENTATIVE PRIOR TO INSTALLATION.
2. POLE-MOUNTED MAIN INCOMING CIRCUIT BREAKER 300AT/350AF, 2P, 230VAC IN NEMA-3R/IP54 ENCLOSURE. MOUNTED @ 1.40M FROM FINISH GRADE LINE ON CENTER.
3. 75KW, 230VAC, 1PH, 3W (L+N+G) 50HZ, SKID-MOUNTED DIESEL DRIVEN GENSET OUTDOOR TYPE WITH MATCHIN OUTPUT CIRCUIT BREAKER.
4. FOR FEEDER (C.B.'S/WIRES) SIZES/RATINGS, REFER TO PANELBOARD SCHEDULES.
5. FUTURE ROOF-MOUNTED SOLAR PANELS, COMPLETE WITH INVERTERS, BATTERIES, MOUNTING ACCESSORIES, CABLING/WIRING & OUTPUT CIRCUIT BREAKERS.
   RATED @25KW, 230VAC, 1PH, 3W, 50HZ (L+N+G) BY OTHERS.
6. ALL CONDUIT RUNS BELOW GRADE SHALL BE IN RIGID PVC INSTALLED @ 1.5M (MIN.) FROM FINISH GRADE LINE; WITH CONCRETE ENVELOPE 100MM (MIN.) THICK ALL AROUND.
7. STAE POWER SINGLE LINE DIAGRAM SHALL BE TYPICAL FOR SITES MANATUTO, VIQUEQUE & COVALIMA.

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE SITE POWER SINGLE LINE DIAGRAM CNE SOLAR PANEL SINGE LINE DIAGRAM			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	E2				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ORIG.SUPV. CHECKED
			–	–	–		
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
POWER LAYOUT

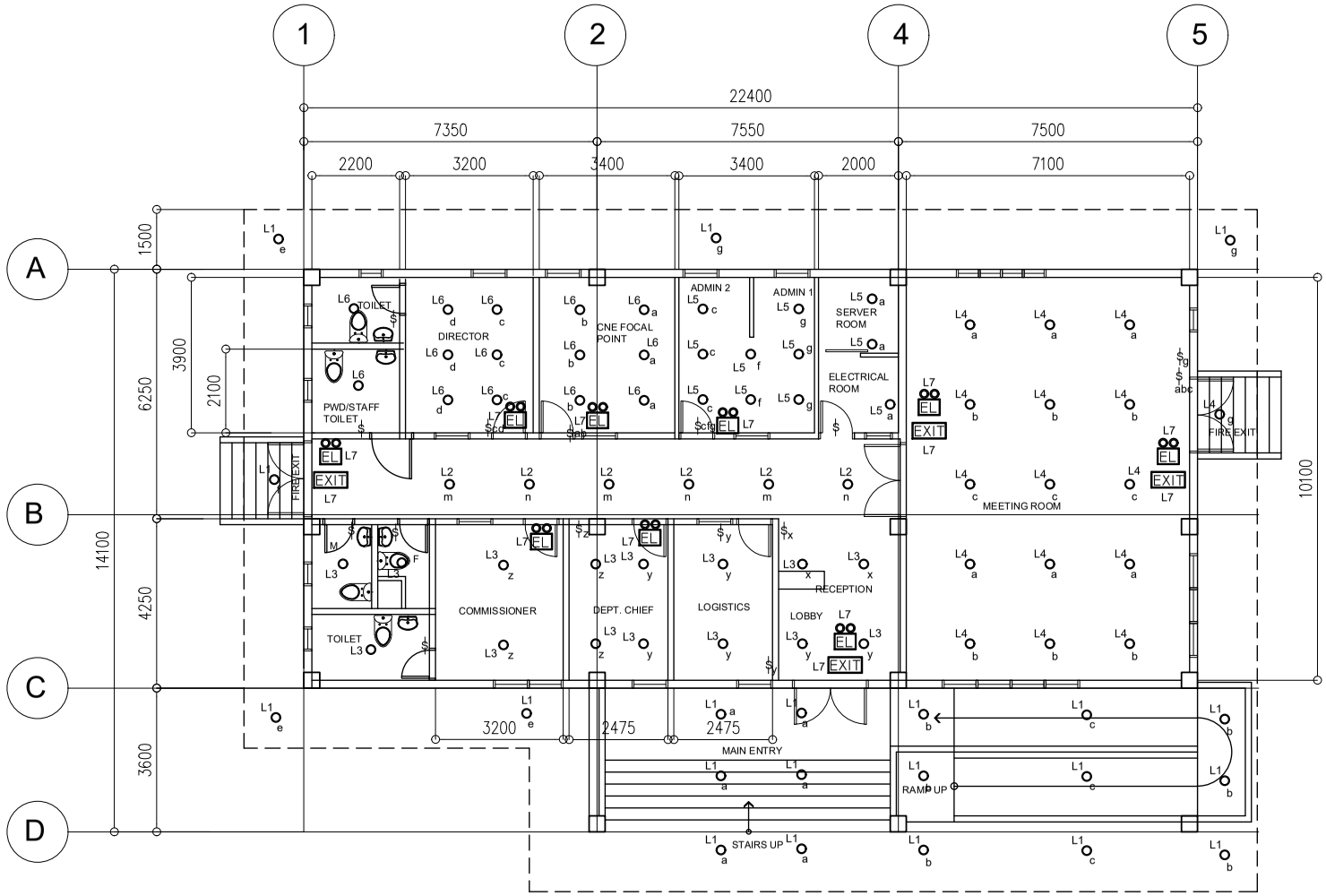
SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA POWER LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	E3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
LIGHTING LAYOUT

SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA LIGHTING LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	E4				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

PANEL DESIGNATION : LP-A @GRD FLR EE RM — MAIN: 125AT/225AF, 2P, 230VAC, 10KAIC MIN
NEMA TYPE / FINISH : NEMA-1 / ANSI Light Gray or (IEC EQUIVALENT) — PHASE: 1-Ph, 3W, 50Hz (PhA, N + G)
FEED FROM : PP-A @ GROUND FLR EE ROOM — MOUNTING: WALL / FLUSH

CKT NO.	CB RATING			OUTLETS		SWITCHES			OTHER LOADS	AMP LOAD PhA-N	BRANCH CKT SIZE			REMARKS
	VOLTS	AF	AT	LO	CO	S	Sab	Sabc			COND mm Dia	PhA-N mm2	Grdg mm2	
L-1	230	50	20	22	-	1	1	1		9.46	15	2 x 3.5	3.5	
L-2	230	50	20	6	-	-	2	-		2.58	15	2 x 3.5	3.5	
L-3	230	50	20	15	-	6	-	-		6.45	15	2 x 3.5	3.5	
L-4	230	50	20	15	-	-	-	1		6.45	15	2 x 3.5	3.5	
L-5	230	50	20	12	-	1	-	1		5.16	15	2 x 3.5	3.5	
L-6	230	50	20	14	-	2	2	-		6.02	15	2 x 3.5	3.5	
L-7	230	50	20	-	13	-	-	-	9- EL & 4-EXL	9.75	15	2 x 3.5	3.5	
L-8	230	50	20	-	14	-	-	-		10.50	15	2 x 3.5	3.5	
L-9	230	50	20	-	10	-	-	-		7.50	15	2 x 3.5	3.5	
L-10	230	50	20	-	19	-	-	-		14.25	15	2 x 3.5	3.5	
L-11	230	50	20	-	-	-	-	-	PROVISION FOR OUTDOOR SECURUTY LIGHTS (10-EA)	4.30	15	2 x 3.5	3.5	
L-12	230	50	20	-	-	-	-	-	PROVISION FOR OUTDOOR SECURUTY LIGHTS (10-EA)	4.30	15	2 x 3.5	3.5	
L-13	230	50	20	-	-	-	-	-	SPARE	10.00	-	-	-	
L-14	230	50	20	-	-	-	-	-	SPARE	10.00	-	-	-	
L-15	230	50	20	-	-	-	-	-	SPARE	10.00	-	-	-	
L-16	230	50	20	-	-	-	-	-	SPARE	10.00	-	-	-	
TOTAL				84	56	10	5	3		126.72				

ILine 1Ph = 126.72 AMP @ 100% DF
= 101.38 AMP @ 80% DF (WIRE AMP = 130A)
= 88.70 AMP @ 70% DF
FEEDER LENGTH = 15.00 M @ NEGLIGIBLE% VD (MAX VD = 3%)

FEEDER SIZE:
2 x 38mm2 THW/THHN 600VAC Stranded Cu & 1 x 14mm2 Green PVC Insulated Grdg Wire in 32mm Dia RSC with 125AT/225AF, 2P, 230VAC, Molded Case Bolt-On-Type Main Circuir Breaker & Plug-in Type Br. Ckt Bkr

TYPICAL FOR SITES: CNE's AILEU, BAUCAU & COVA LIMA

LIGHTING PANEL DESIGNATION LP–A

PANEL DESIGNATION : PP-A @ GROUND FLR EE ROOM — MAIN: 300AT/350AF, 2P, 230VAC, 10KAIC MIN.
NEMA TYPE / FINISH : NEMA-1 / ANSI Light Gray or (IEC EQUIVALENT) — PHASE: 1-Ph, 3W, 50Hz (PhA, N + G)
FEED FROM : POWER SERVICE ENTRANCE — MOUNTING: WALL / FLUSH

CKT NO.	RATING			OTHER LOADS	AMP LOAD PhA-N	BRANCH CKT SIZE			REMARKS
	VOLTS	AF	AT			COND mm Dia	PhA-N mm2	Grdg mm2	
P-1	230	100	100	LP-A VIA MTS (DPDT +G)	126.72	32	2 x 38	14	MTS @150A 2P, 230VAC NON-FUSIBLE 3W (DPDT, +G)
P-2	230	100	60	5-HP WATER PUMP	28.00	25	2 x 14	3.5	DUTY
P-3	230	100	60	5-HP WATER PUMP	28.00	25	2 x 14	3.5	STAND-BY
P-4	230	100	30	SPARE	10.00	-	-	-	
P-5	230	50	30	2-HP WINDOW TYPE ACU-1	12.00	15	2 x 3.5	3.5	
P-6	230	50	30	2-HP WINDOW TYPE ACU-2	12.00	15	2 x 3.5	3.5	
P-7	230	50	30	2-HP WINDOW TYPE ACU-3	12.00	15	2 x 3.5	3.5	
P-8	230	50	30	2-HP WINDOW TYPE ACU-4	12.00	15	2 x 3.5	3.5	
P-9	230	50	30	2-HP WINDOW TYPE ACU-5	12.00	15	2 x 3.5	3.5	
P-10	230	50	30	2-HP WINDOW TYPE ACU-6	12.00	15	2 x 3.5	3.5	
P-11	230	50	30	2-HP WINDOW TYPE ACU-7	12.00	15	2 x 3.5	3.5	
P-12	230	50	30	5-HP SPLIT TYPE ACU-1	28.00	25	2 x 14	3.5	
P-13	230	50	30	5-HP SPLIT TYPE ACU-2	28.00	25	2 x 14	3.5	
P-14	230	50	30	5-HP SPLIT TYPE ACU-3	28.00	25	2 x 14	3.5	
P-15	230	50	30	SPARE	10.00	-	-	-	
P-16	230	50	30	SPARE	10.00	-	-	-	
P-17	230	100	60	SPARE	10.00	-	-	-	
P-18	230	100	60	SPARE	10.00	-	-	-	
TOTAL					372.72				

ILine 1Ph = 372.72 AMP @ 100% DF
= 298.18 AMP @ 80% DF (WIRE AMP = 325A)
= 260.90 AMP @ 70% DF
FEEDER LENGTH = 50.00 M @ 2.3% VD (MAXIMUM VD = 3%)

FEEDER SIZE:
2 x 175mm2 THW/THHN 600VAC Stranded Cu & 1 x 80mm2 Green PVC Insulated Grdg Wire in 65mm Dia RSC, with 300AT/350AF, 2P, 230VAC, Molded Case Bolt-On-Type Main & Branch Circuit Breakers.

GENSET RATING:
75KW, 230VAC, 2P, 3W, 50HZ DIESEL DRIVEN SKID-MOUNTED GENSET OUTDOOR TYPE WITH MATCHING 300AT/300AF, 2P, 3W OUTPUT C.B. & NON-FUSIBLE DPDT MTS AND CONTROL/METERING PANEL, OPERATING/MAINTENANCE TOOLS & VIBRATION ISOLATORS.

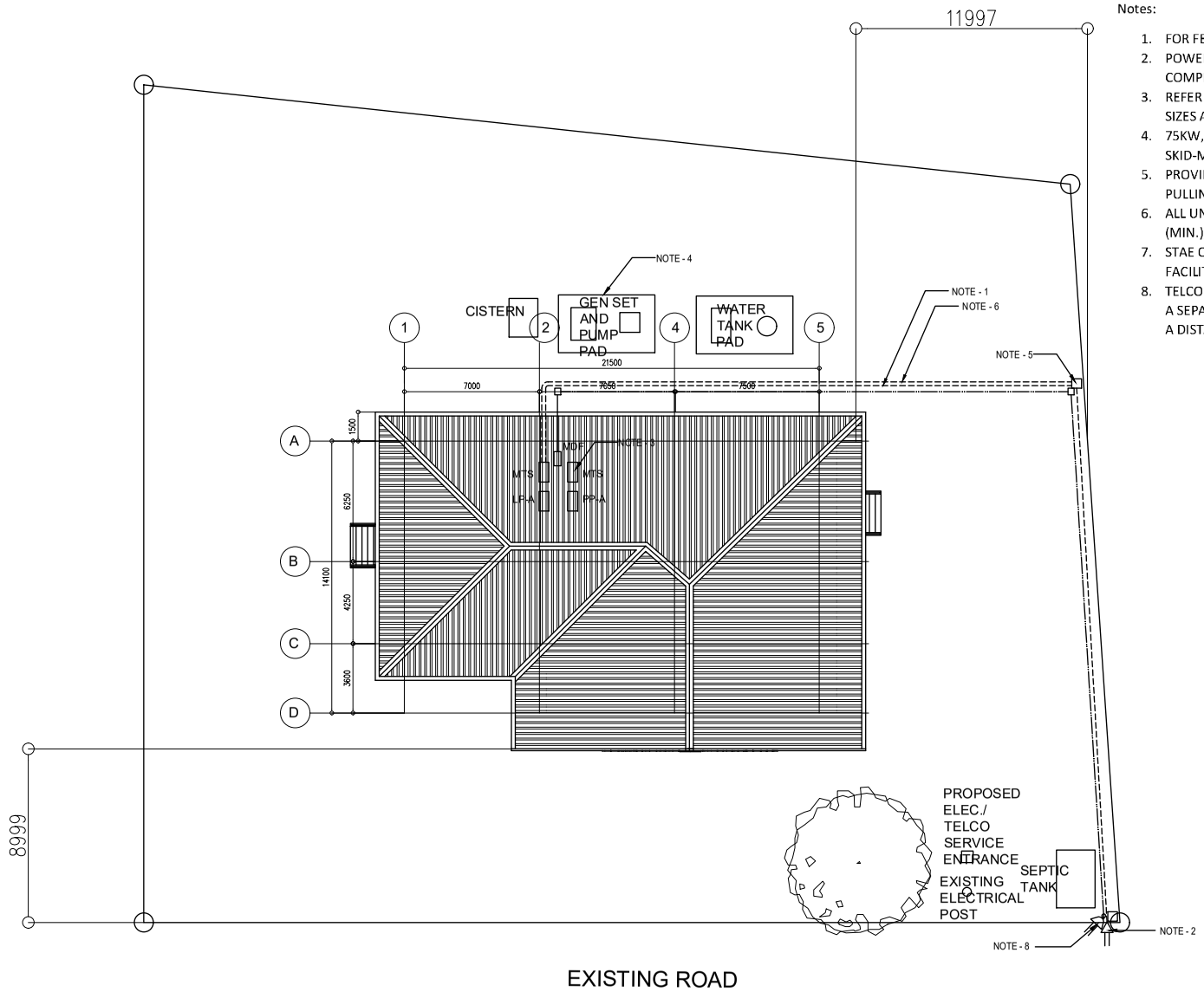
TYPICAL FOR SITES: CNE's AILEU, BAUCAU & COVA LIMA

POWER PANEL DESIGNATION PP–A

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA LIGHTING PANEL DESIGNATION LP–A & POWER PANEL DESIGNATION PP–A			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER); ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	E5				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



Notes:

1. FOR FEEDER SIZES/RATINGS, REFER TO THE POWER SINGLE LINE DIAGRAM.
2. POWER/TELCO SERVICE ENTRANCE; PEDESTAL; TYPE, DETAILS & DIMENSIONS SHALL COMPLY/CONFROM WITH THE LOCAL UTILITY COMPANY STANDARDS & REQUIREMENTS.
3. REFER TO THE PANELBOARD SCHEDULES FOR LOAD DISTRIBUTION & BRANCH CIRCUIT/FEEDER SIZES AND RATINGS.
4. 75KW, 230VAC, 1 HP 3W 50 HZ SKID-MOUNTED DIESEL DRIVEN GENSET OUTDOOR TYPE WITH SKID-MOUNTED FUEL DAY TANK.
5. PROVIDE 500X500X300 MM (L x W x D) INTERMEDIATE HANDHOLE TO FACILITATE CABLE PULLING/INSTALLATION.
6. ALL UNDERGROUND CONDUIT RUNS SHALL BE RIGID PVC, AT 1.5M FROM FINISH GRADE LINE (MIN.); WITH 100MM THICK (MIN.) CONCRETE ENVELOPES ALL AROUND.
7. STAE OFFICE STRUCTURE POWER SITE DEVELOPMENT PLAN SHALL BE TYPICAL/SYMMETRICAL IN FACILITY ORIENTATION WITH STAE'S MANATUTO, VIQUEQUE, & COVALIMA.
8. TELCO SERVICE ENTRANCE SHALL BE SHARED WITH THE POWER SERVICE ENTRANCE PEDESTAL. A SEPARATE SET OF CONDUIT INCLUDING HANDHOLE SHALL BE PROVIDED FOR THE TELCO WITH A DISTANCE OF AT LEAST >= 0.3M BELOW THE POWER WEATHERHEAD.

CNE COVA LIMA TELCO/POWER SITE DEVELOPMENT PLAN

1 M 3 M 5 M
2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA TELCO/POWER SITE DEVELOPMENT PLAN			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	E6				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

AUXILIARY SYSTEMS LEGEND & SYMBOLS:

SYMBOL	MOUNTING	DESCRIPTION
MDF	WALL/FLOOR	MAIN DISTRIBUTION FRAME
IDF	FLOOR	INTERMEDIATE DISTRIBUTION FRAME
MTTC	WALL/FLOOR	MAIN TELEPHONE TERMINAL CABINET
	FLOOR	OPEN-BAY/EQUIPMENT RACK 42U, 19" (482.6mm)
CP	AS REQUIRED	CONSOLIDATION POINT 19" (482.6mm) 4U OR 9U OPEN-BAY RACK OR DATA CABINET
PABX	AS REQUIRED	ELECTRONIC PRIVATE AUTOMATIC BRANCH EXCHANGE
UTM	AS REQUIRED	UNIFIED THREAT MANAGEMENT (UTM) / NEXT GENERATION FIREWALL ROUTER
SWITCH	AS REQUIRED	NETWORK SWITCH
PoE	AS REQUIRED	POWER-OVER-ETHERNET (PoE) NETWORK SWITCH
	WALL 0.3M AFF	DOUBLE WORK STATION OUTLET, VOICE (or DATA) & DATA (2x 4-pair Cat6 RJ45 CABLES)
	FLOOR	-DITTO- EXCEPT FLOOR MOUNTED
	AS REQUIRED	SINGLE WORK STATION OUTLET FOR VOICE (or DATA) (4-pair Cat6 RJ45 CABLE)
	FLOOR	-DITTO- EXCEPT FLOOR MOUNTED
	AS REQUIRED	SINGLE WORK STATION OUTLET FOR DATA (or VOICE) (4-pair Cat6 RJ45 CABLE)
	FLOOR	-DITTO- EXCEPT FLOOR MOUNTED
	CEILING	SINGLE WORK STATION OUTLET FOR DATA (4-pair Cat6 RJ45 CABLE)
	AS REQUIRED	SINGLE RJ45 PLUG FOR A/V Link (HDBaseT/HDMI over 4-pair Shielded Cat6 RJ45 CABLE)
PULLBOX	CEILING	PULLBOX
APM	AS REQUIRED	WIFI ACCESS POINT MANAGER, RACK MOUNTED
	CEILING	WIFI ACCESS POINT
WP	AS REQUIRED	-DITTO- EXCEPT WEATHERPROOF TYPE.
UPS	AS REQUIRED	UNINTERRUPTIBLE POWER SUPPLY (UPS)

SYMBOL	MOUNTING	DESCRIPTION
VGA	AS REQUIRED	VGA (D-SUB 15-PIN) PORT
VGA+3.5mm	AS REQUIRED	VGA (D-SUB 15-PIN) PORT + 3.5mm AUDIO PORT
HDMI	AS REQUIRED	HDMI PORT FOR PROJECTORS OR LCD/LED TV DISPLAYS
	AS REQUIRED	LCD PROJECTOR, VGA PORT 15-PIN & HDMI PORT
PTZ	AS REQUIRED	CCTV CAMERA, WITH ZOOM, PAN AND TILT.
PTZ/WP	AS REQUIRED	-DITTO- EXCEPT WEATHERPROOF TYPE.
	AS REQUIRED	FIXED CCTV CAMERA
WP	AS REQUIRED	-DITTO- EXCEPT WEATHERPROOF TYPE.
P	CEILING	6W SPEAKER, CONE TYPE, 3W OR 1.5W TAP. 70VOLT W/ MATCHING TRANSFORMER.
	2.3M	HORN TYPE SPEAKER, 10W OR 15W.
C	1.83M AFF	VOLUME CONTROLLER
M	WALL	MICROPHONE OUTLET - WALL MOUNTED
CCTV		CCTV EQUIPMENT (DVR OR NVR)
MTV		CCTV MONITOR OUTLET
PTZ		CCTV PAN-TILT-ZOOM (PTZ) CONTROLLER
PA EQUIP		PUBLIC ADDRESS EQUIPMENT, RACK MOUNTED.

MANUEL LIM III
PRC NO.: 0009657

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA AUXILIARY SYSTEM LEGEND			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEERING SPECIALIST)
COVA LIMA	AX1				

REV	DATE	MARK / DESCRIPTION	- DRAWN BY	- CHECKED	- CHECKED	SURVEY REVIEWED	CRP SUPV. CHECKED
			ORIGINATOR			CLIENT	

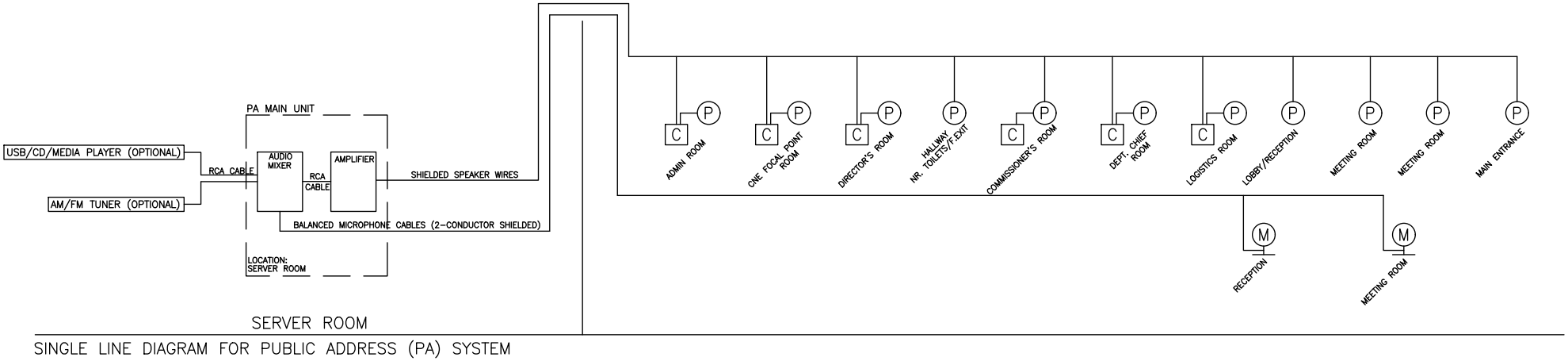
REVISION HISTORY

LEGENDS:

MDF	:	MAIN DISTRIBUTION FRAME
IDF	:	INTERMEDIATE DISTRIBUTION FRAME (19" or 482.6mm 42U OPEN–BAY RACK)
UTM	:	UNIFIED THREAT MANAGEMENT (UTM)/NEXT GENERATION FIREWALL ROUTER
SWITCH	:	NETWORK SWITCH (GIGABIT SPEED)
POE	:	POWER OVER ETHERNET (POE) NETWORK SWITCH
PATCH PANEL	:	24–PORT 1U CATEGORY–6 PATCH PANEL
	:	TWO (2) CATEGORY–6 INFORMATION OUTLET (IO) PORTS FOR VOICE & DATA
	:	ONE (1) CATEGORY–6 INFORMATION OUTLET (IO) PORT FOR DATA
W	:	CATEGORY–6 IO PORT FOR WIRELESS ACCESS POINT (CEILING MOUNT – PoE–READY)
	:	CATEGORY–6 IO PORT FOR IP–CCTV CAMERAS (CEILING/WALL–MOUNT – PoE–READY)
CCTV	:	CCTV RECORDING EQUIPMENT (DVR OR NVR)
TMTV	:	CCTV DISPLAY MONITOR
APM	:	WIRELESS ACCESS POINT (AP) MANAGER
PABX	:	PRIVATE AUTOMATIC BRANCH EXCHANGE

NOTES:

- EACH "x" INDICATES ONE (1) 4–PAIR CATEGORY 6 UTP CABLE
- CATEGORY–6 HORIZONTAL CABLING SHALL BE INSTALLED IN EMT/IMC or PVC CONDUITS
- IDF or EQUIPMENT RACK SHALL BE PROVIDED WITH A UNIFIED THREAT MANAGEMENT (UTM)/ NEXT GENERATION FIREWALL ROUTER, A GIGABIT NETWORK SWITCH AND AN OPTIONAL POWER–OVER–ETHERNET (PoE) NETWORK SWITCH
- IDF OR EQUIIPMENT RACK SHALL BE PROVIDED WITH A UNINTERRUPTIBLE POWER SUPPLY (UPS) >=2.2KVA
- PLS MAINTAIN A DISTANCE OF AT LEAST 60–100mm. BETWEEN POWER AND ETHERNET CABLES ESP. ON CABLE TRAYS
- PLS MAINTAIN A MIN. BEND RADIUS OF AT LEAST 40mm. FOR ALL CATEGORY–6 CABLES



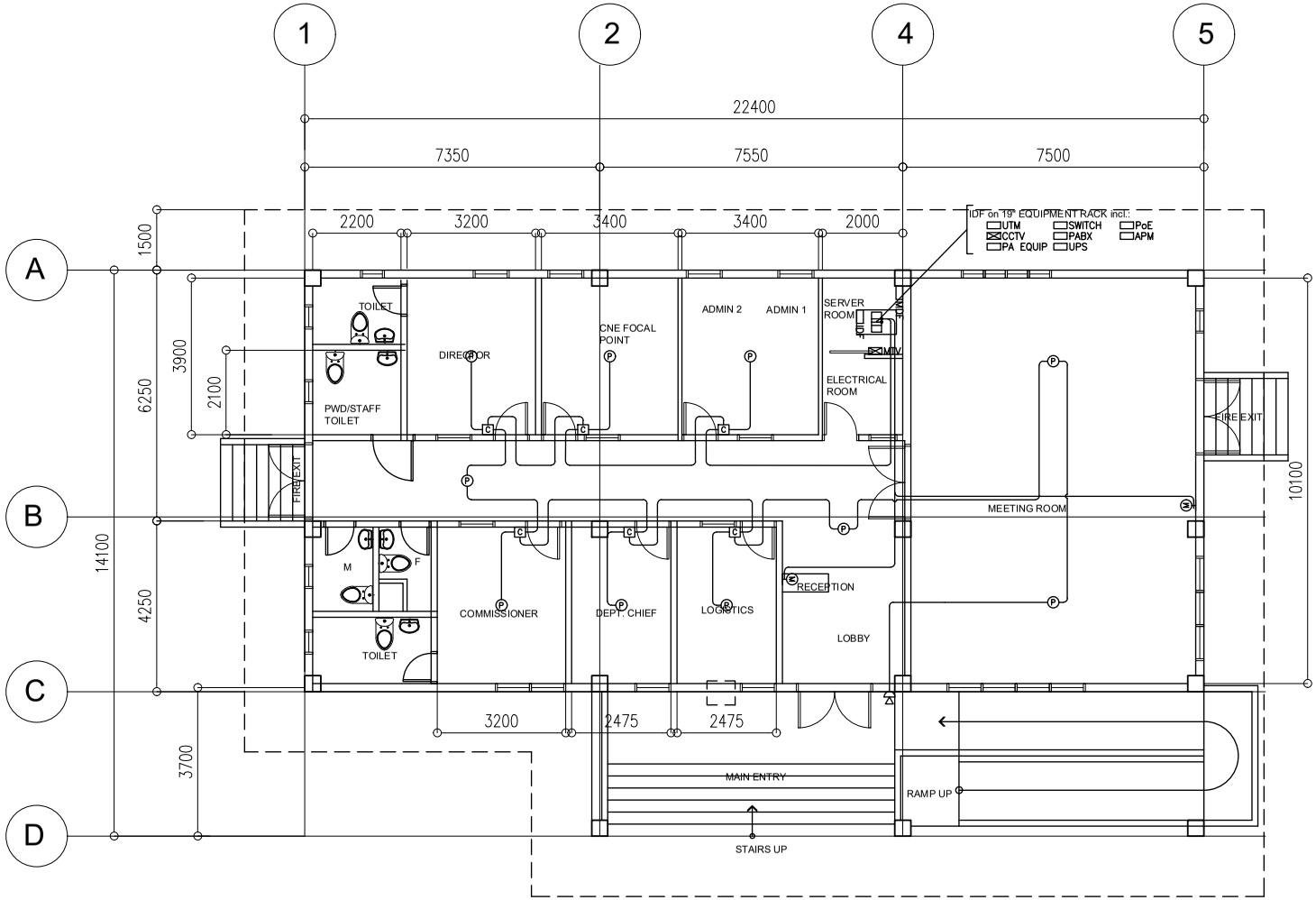
SINGLE LINE DIAGRAM FOR PUBLIC ADDRESS (PA) SYSTEM

CNE COVA LIMA
SINGLE LINE DIAGRAM FOR PUBLIC ADDRESS (PA) SYSTEM
NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SINGLE LINE DIAGRAM FOR PUBLIC ADDRESS (PA) SYSTEM			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER); ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEERING SPECIALIST)
COVA LIMA	AX2				

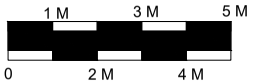
REV	DATE	MARK / DESCRIPTION	– DRAWN BY	– CHECKED	– CHECKED	SURVEY REVIEWED	GRP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
PUBLIC ADDRESS (PA) LAYOUT

SCALE: 1:60 MTS



PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA PUBLIC ADDRESS (PA) LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CNE ENGINEER SPECIALIST)
COVA LIMA	AX3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

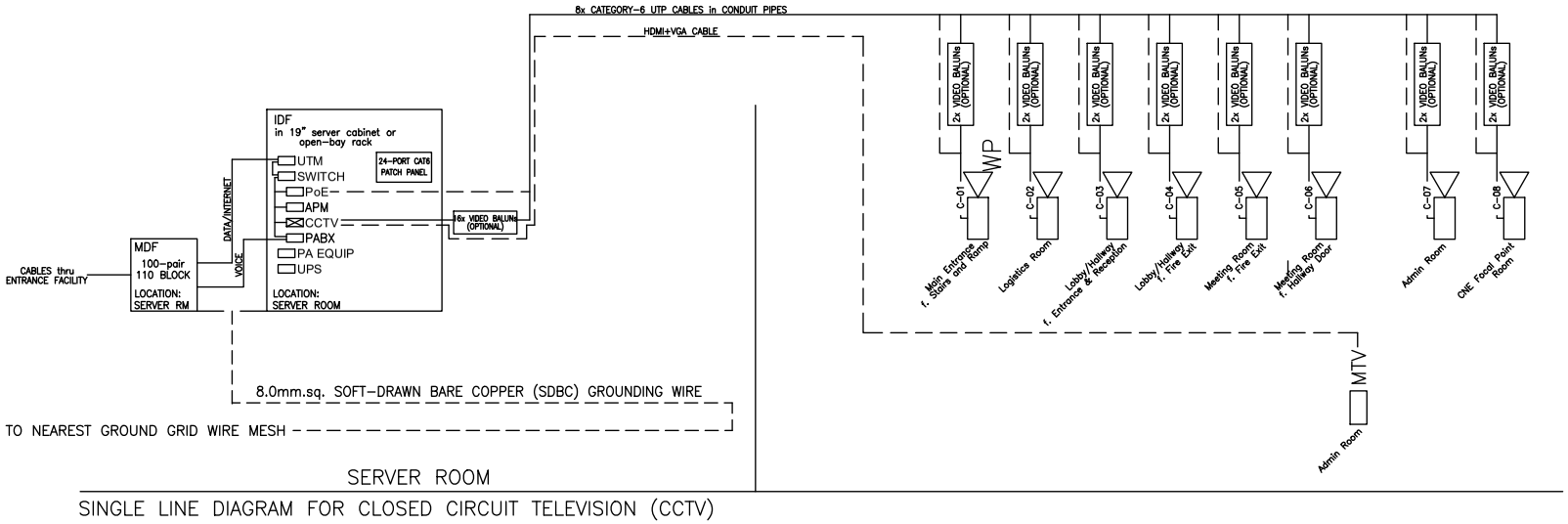
REVISION HISTORY

LEGENDS:

MDF	:	MAIN DISTRIBUTION FRAME
IDF	:	INTERMEDIATE DISTRIBUTION FRAME (19" or 482.6mm 42U OPEN-BAY RACK)
UTM	:	UNIFIED THREAT MANAGEMENT (UTM)/NEXT GENERATION FIREWALL ROUTER
SWITCH	:	NETWORK SWITCH (GIGABIT SPEED)
POE	:	POWER OVER ETHERNET (POE) NETWORK SWITCH
PATCH PANEL	:	24-PORT 1U CATEGORY-6 PATCH PANEL
	:	TWO (2) CATEGORY-6 INFORMATION OUTLET (IO) PORTS FOR VOICE & DATA
	:	ONE (1) CATEGORY-6 INFORMATION OUTLET (IO) PORT FOR DATA
W	:	CATEGORY-6 IO PORT FOR WIRELESS ACCESS POINT (CEILING MOUNT - PoE-READY)
	:	CATEGORY-6 IO PORT FOR IP-CCTV CAMERAS (CEILING/WALL-MOUNT - PoE-READY)
CCTV	:	CCTV RECORDING EQUIPMENT (DVR OR NVR)
MTV	:	CCTV DISPLAY MONITOR
APM	:	WIRELESS ACCESS POINT (AP) MANAGER
PABX	:	PRIVATE AUTOMATIC BRANCH EXCHANGE

NOTES:

- EACH "x" INDICATES ONE (1) 4-PAIR CATEGORY 6 UTP CABLE
- CATEGORY-6 HORIZONTAL CABLING SHALL BE INSTALLED IN EMT/IMC or PVC CONDUITS
- IDF or EQUIPMENT RACK SHALL BE PROVIDED WITH A UNIFIED THREAT MANAGEMENT (UTM)/ NEXT GENERATION FIREWALL ROUTER, A GIGABIT NETWORK SWITCH AND AN OPTIONAL POWER-OVER-ETHERNET (PoE) NETWORK SWITCH
- IDF OR EQUIIPMENT RACK SHALL BE PROVIDED WITH A UNINTERRUPTIBLE POWER SUPPLY (UPS) >=2.2KVA
- PLS MAINTAIN A DISTANCE OF AT LEAST 60-100mm. BETWEEN POWER AND ETHERNET CABLES ESP. ON CABLE TRAYS
- PLS MAINTAIN A MIN. BEND RADIUS OF AT LEAST 40mm. FOR ALL CATEGORY-6 CABLES



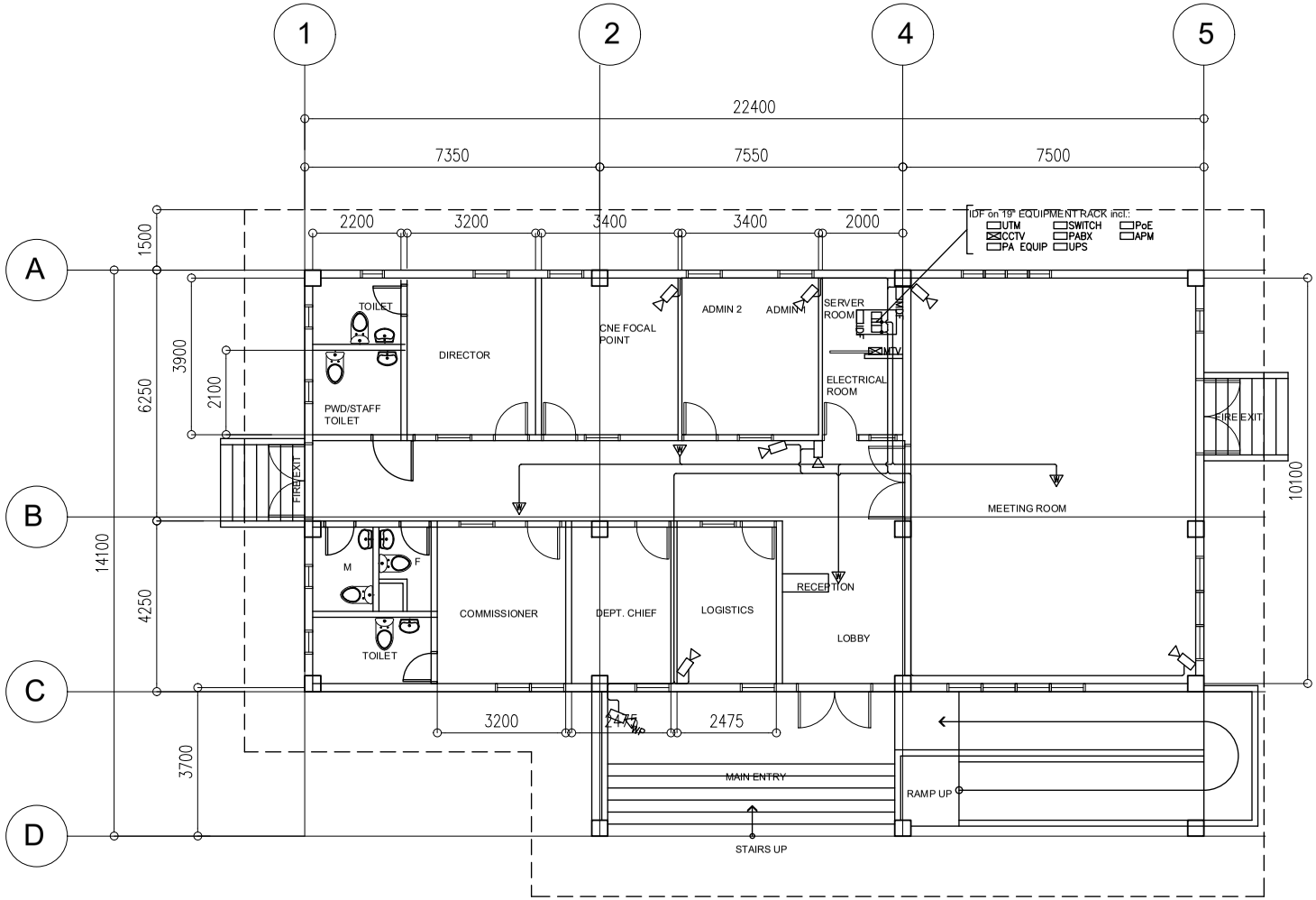
SINGLE LINE DIAGRAM FOR CLOSED CIRCUIT TELEVISION (CCTV)

CNE COVA LIMA
SINGLE LINE DIAGRAM FOR CLOSED CIRCUIT TELEVISION (CCTV)
NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SINGLE LINE DIAGRAM FOR CLOSED CIRCUIT TELEVISION (CCTV)			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEERING SPECIALIST)
COVA LIMA	AX4				

REV	DATE	MARK / DESCRIPTION	- DRAWN BY	- CHECKED	- CHECKED	SURVEY REVIEWED	GRP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
WI-FI & CLOSED CIRCUIT TELEVISION (CCTV)

SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA WI-FI & CLOSED CIRCUIT TELEVISION (CCTV)			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	AX5				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ENP.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

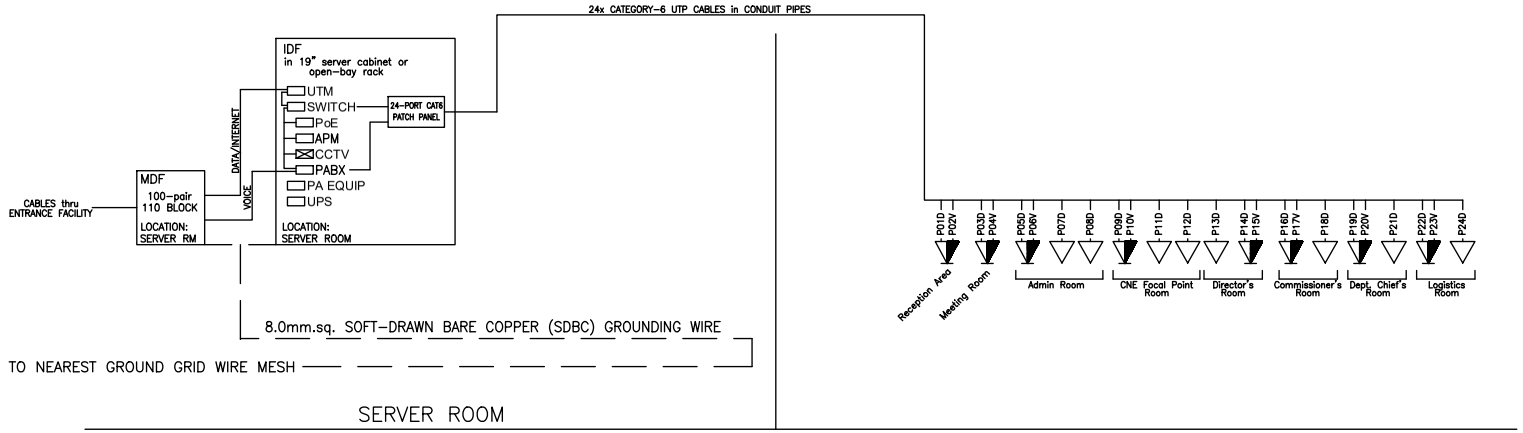
REVISION HISTORY

LEGENDS:

MDF	:	MAIN DISTRIBUTION FRAME
IDF	:	INTERMEDIATE DISTRIBUTION FRAME (19" or 482.6mm 42U OPEN–BAY RACK)
UTM	:	UNIFIED THREAT MANAGEMENT (UTM)/NEXT GENERATION FIREWALL ROUTER
SWITCH	:	NETWORK SWITCH (GIGABIT SPEED)
POE	:	POWER OVER ETHERNET (POE) NETWORK SWITCH
PATCH PANEL	:	24–PORT 1U CATEGORY–6 PATCH PANEL
	:	TWO (2) CATEGORY–6 INFORMATION OUTLET (IO) PORTS FOR VOICE & DATA
	:	ONE (1) CATEGORY–6 INFORMATION OUTLET (IO) PORT FOR DATA
W	:	CATEGORY–6 IO PORT FOR WIRELESS ACCESS POINT (CEILING MOUNT – PoE–READY)
	:	CATEGORY–6 IO PORT FOR IP–CCTV CAMERAS (CEILING/WALL–MOUNT – PoE–READY)
CCTV	:	CCTV RECORDING EQUIPMENT (DVR OR NVR)
TMTV	:	CCTV DISPLAY MONITOR
APM	:	WIRELESS ACCESS POINT (AP) MANAGER
PABX	:	PRIVATE AUTOMATIC BRANCH EXCHANGE

NOTES:

- EACH "x" INDICATES ONE (1) 4–PAIR CATEGORY 6 UTP CABLE
- CATEGORY–6 HORIZONTAL CABLING SHALL BE INSTALLED IN EMT/IMC or PVC CONDUITS
- IDF or EQUIPMENT RACK SHALL BE PROVIDED WITH A UNIFIED THREAT MANAGEMENT (UTM)/ NEXT GENERATION FIREWALL ROUTER, A GIGABIT NETWORK SWITCH AND AN OPTIONAL POWER–OVER–ETHERNET (PoE) NETWORK SWITCH
- IDF OR EQUIIPMENT RACK SHALL BE PROVIDED WITH A UNINTERRUPTIBLE POWER SUPPLY (UPS) >=2.2KVA
- PLS MAINTAIN A DISTANCE OF AT LEAST 60–100mm. BETWEEN POWER AND ETHERNET CABLES ESP. ON CABLE TRAYS
- PLS MAINTAIN A MIN. BEND RADIUS OF AT LEAST 40mm. FOR ALL CATEGORY–6 CABLES



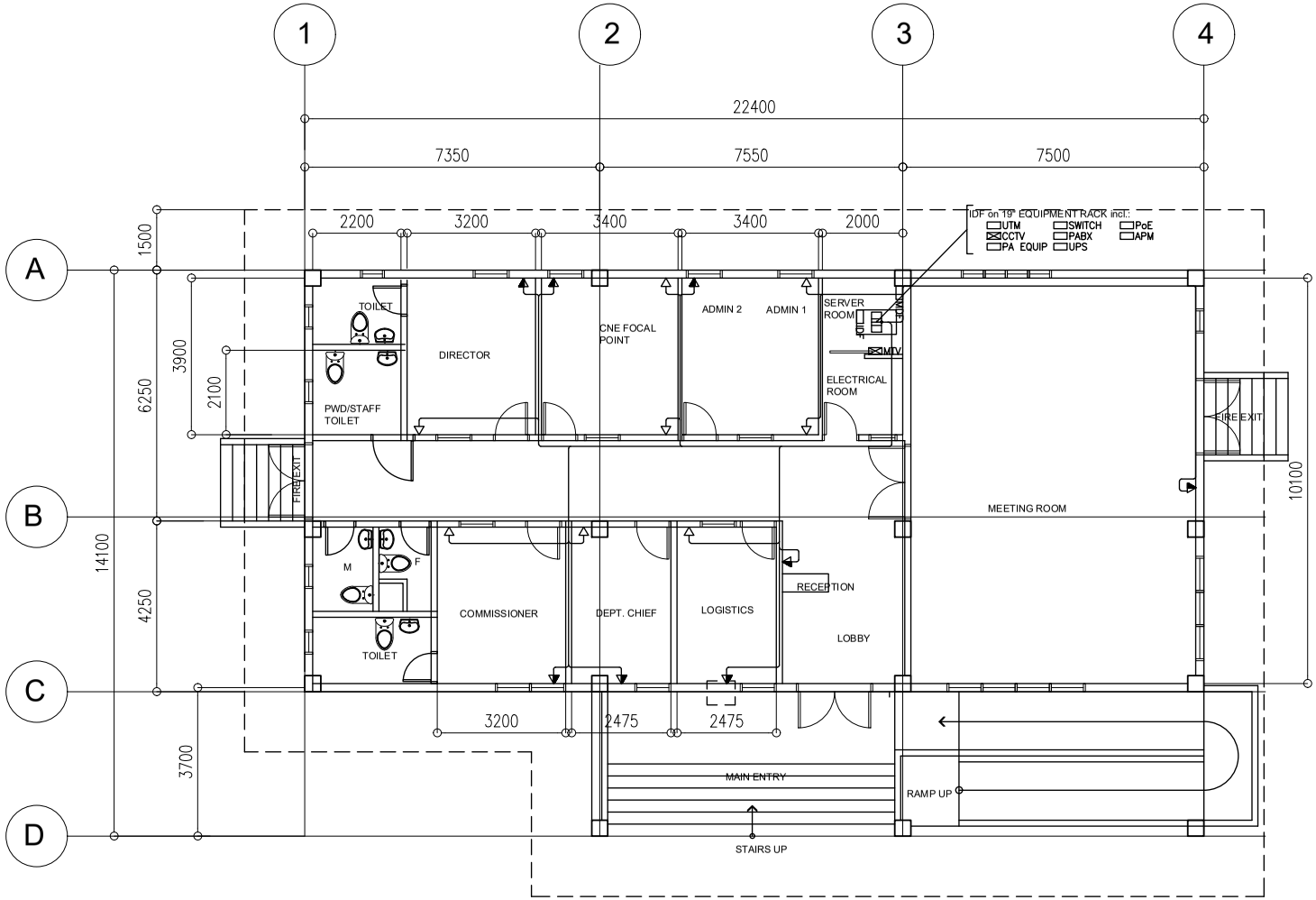
SINGLE LINE DIAGRAM FOR VOICE AND DATA PORTS

CNE COVA LIMA
SINGLE LINE DIAGRAM FOR VOICE AND DATA PORTS
PORT ASSIGNMENT SCHEDULE FOR VOICE AND DATA
NOT TO SCALE

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA SINGLE LINE DIAGRAM FOR VOICE AND DATA PORTS PORT ASSIGNMENT SCHEDULE FOR VOICE AND DATA			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR–LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEERING SPECIALIST)
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	AX6				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	CHP.SUPV. CHECKED
			–	–	–		
			ORIGINATOR			CLIENT	

REVISION HISTORY



CNE COVA LIMA
VOICE AND DATA PORTS

SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA VOICE AND DATA PORTS			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CNE ENGINEER SPECIALIST)
COVA LIMA	AX7				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ORIP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

REVISION HISTORY

Port Assignment Schedule for Voice and Data

CNE COVA LIMA

UNDP Covid - Resilient Election in Timor-Leste (CORE-TL)

Auxiliary Works

Count	*Patch Panel*	*Port No.*	*Type*	*Height*	*Location*
1	1	P01D	Data	Wall 0.3m AFF	Reception area
2	1	P02V	Voice	Wall 0.3m AFF	Reception area
3	1	P03D	Data	Wall 0.3m AFF	Meeting room
4	1	P04V	Voice	Wall 0.3m AFF	Meeting room
5	1	P05D	Data	Wall 0.3m AFF	Admin room
6	1	P06V	Voice	Wall 0.3m AFF	Admin room
7	1	P07D	Data	Wall 0.3m AFF	Admin room
8	1	P08D	Data	Wall 0.3m AFF	Admin room
9	1	P09D	Data	Wall 0.3m AFF	CNE Focal Point
10	1	P10V	Voice	Wall 0.3m AFF	CNE Focal Point
11	1	P11D	Data	Wall 0.3m AFF	CNE Focal Point
12	1	P12D	Data	Wall 0.3m AFF	CNE Focal Point
13	1	P13D	Data	Wall 0.3m AFF	Director’s room
14	1	P14V	Voice	Wall 0.3m AFF	Director’s room
15	1	P15D	Data	Wall 0.3m AFF	Director’s room
16	1	P16D	Data	Wall 0.3m AFF	Commissioner’s Room
17	1	P17V	Voice	Wall 0.3m AFF	Commissioner’s Room
18	1	P18D	Data	Wall 0.3m AFF	Commissioner’s Room
19	1	P19D	Data	Wall 0.3m AFF	Department Chief
20	1	P20V	Voice	Wall 0.3m AFF	Department Chief
21	1	P21D	Data	Wall 0.3m AFF	Department Chief
22	1	P22D	Data	Wall 0.3m AFF	Logistics
23	1	P23V	Voice	Wall 0.3m AFF	Logistics
24	1	P24D	Data	Wall 0.3m AFF	Logistics

AIRCONDITIONING UNIT SCHEDULE

ITEM NO.	QUANTITY (SET)	SERVICE	LOCATION	CAPACITY HP (KW)	POWER			REMARKS
					VOLTS	PHASE	HERTZ	
1	3	TO COOL THE TEMPERATURE IN AN INSIDE SPACE BY REMOVING EXISTING HEAT AND MOISTURE FROM THE ROOM	CNE COVA LIMA (MEETING ROOM)	4 (3)	220	1	50	SPLIT-TYPE A/C INVERTER WITH WIRELESS REMOTE CONTROL. BRAND SHALL BE SAMSUNG, PANASONIC OR APPROVED EQUAL.
2	8	TO COOL THE TEMPERATURE IN AN INSIDE SPACE BY REMOVING EXISTING HEAT AND MOISTURE FROM THE ROOM	CNE COVA LIMA (DIRECTOR, DEPT.CHIEF, FOCAL POINT, SERVER/EE RM., ADMIN, LOGISTICS & COMMISSIONER)	1 (0.746)	220	1	50	SPLIT-TYPE A/C NON-INVERTER WITH WIRELESS REMOTE CONTROL. BRAND SHALL BE SAMSUNG, PANASONIC OR APPROVED EQUAL.

WATER TRANSFER PUMP SCHEDULE

QUANTITY (SET)	SERVICE	LOCATION	CAPACITY (LPS)	APPROX.HEAD (M)	MOTOR HP (KW)	RPM	POWER			REMARKS
							VOLTS	PHASE	HERTZ	
2	TO SUPPLY POTABLE WATER TO OVERHEAD DOMESTIC WATER SUPPLY TANK	CNE COVA LIMA	0.5552 EACH	41	1 (0.746)	2900	220	1	50	HORIZONTAL, SINGLE STAGE, END-SUCTION CENTRIFUGAL PUMP, GRUNDFOS OR APPROVED EQUAL

DIESEL GENERATOR SET SCHEDULE

QUANTITY (SET)	SERVICE	LOCATION	CAPACITY (KVA)	POWER			REMARKS
				VOLTS	PHASE	HERTZ	
1	TO SUPPLY EMERGENCY POWER TO THE BUILDING DURING POWER FAILURE	CNE COVA LIMA	240	220	1	50	SOUNDPROOF GENSET AS SPECIFIED. BRAND SHALL BE CATERPILLAR, CUMMINS, PERKINS OR APPROVED EQUAL.

EXHAUST FAN SCHEDULE

QUANTITY (SET)	SERVICE	LOCATION	CAPACITY HP (W)	POWER			REMARKS
				VOLTS	PHASE	HERTZ	
1	TO REMOVE THE AIR OF EXHAUST MOISTURE, HUMIDITY, ODORS AND OTHER POLLUTANTS	CNE COVA LIMA (FEMALE TOILET)	0.035 (26)	220	1	50	EXHAUST TYPE AND CONNECTED BY 100MM DIA.PVC EXHAUST PIPE TO GRIDLINE B-C/1 WITH AIR VOLUME CAP.=180 CU.M/HR

MECHANICAL SYSTEM

UNDP CORE-TL

GENERAL NOTES:

1. ALL WORKS HEREIN SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND SHALL BE EXECUTED ACCORDING TO THE PROVISIONS OF THE NATIONAL BUILDING CODE OF TIMOR LESTE AND THE RULES AND REGULATIONS OF LOCAL GOVERNMENT AUTHORITIES CONCERNED UNDER THE DIRECT SUPERVISION OF A LICENSED MECHANICAL ENGINEER.

2. THE JOB SHALL BE EXECUTED IN THE MOST THOROUGH, PROMPT AND WORKMANLIKE MANNER EMPLOYING STANDARD TOOLS, EQUIPMENT, METHODS AND GOOD ENGINEERING PRACTICE.

3. ANY DISCREPANCIES NOTED INCLUDING DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, AND/OR THE OWNER'S REPRESENTATIVE, AND RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.

4. NEITHER ACCURACY NOR COMPLETENESS OF UTILITY LOCATIONS SHOWN ON THE DRAWING IS GUARANTEED. DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN THE FIELD, WHETHER OR NOT SHOWN ON DRAWINGS. EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.

5. CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS FOR ALL OF THEIR WORKS AND SUBMIT FOR ACCEPTANCE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORKS ON SITE.

6. SHOP DRAWINGS AND THE INSTALLATION ON SITE SHALL RESPECT THE SPATIAL COORDINATION OF THE DESIGN AND COMPLY WITH THE ROUTING INCLUDING LINE AND LEVEL SHOWN ON THE "FOR CONSTRUCTION" DRAWINGS UNLESS ON SITE CONDITIONS OR SPATIAL COORDINATION WITH OTHER TRADES SHOWS THAT THERE ARE UNRESOLVED SPATIAL CLASHES. MINOR CLASHES THAT CAN BE RESOLVED ON SITE WITH OTHER TRADES SHALL BE AGREED ON SITE AND INCORPORATED IN AS-BUILT DRAWINGS. ANY MAJOR CLASHES REQUIRED SIGNIFICANT REROUTING SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER FOR RESOLUTION.

7. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TECHNICAL AND SPATIAL COORDINATION, BOTH WITH ITS OWN WORKS AND THE WORKS OF OTHERS. NO COST OR TIME VARIATION/CHANGE ORDER WILL BE GRANTED FOR ANY IMPACT OF THE FAILURE OF THE CONTRACTOR TO COORDINATE THEIR WORKS.

8. IT IS NOT INTENDED THAT THE DRAWINGS SHALL SHOW EVERY FITTING, OFFSET, VALVE OR DEVICE. ALL SUCH ITEMS WHETHER SPECIFICALLY MENTIONED OR NOT, OR INDICATED IN THE DRAWINGS SHALL BE FURNISHED OR INSTALLED. IF NECESSARY, TO COMPLETE THE SYSTEM IN ACCORDANCE WITH BEST PRACTICE AND TO THE SATISFACTION OF THE ENGINEER AND THE OWNER.

9. ALL SERVICE RETICULATION (PIPES, ETC.) PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED AS REQUIRED AND SHALL BE SEALED WATERTIGHT.

10. ALL SERVICE RETICULATION (PIPES, ETC) PENETRATING FIRE RATED WALLS OR PARTITIONS SHALL BE PROTECTED WITH UL-LISTED FIRE STOPPING SEALANT OR ASSEMBLY OF EQUAL RATING.

11. CONTRACTOR TO PROVIDE SLEEVES AS SPECIFIED FOR ALL RETICULATION PASSING THROUGH WALLS. SEALANT TO BE INSTALLED AS SPECIFIED.

12. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

13. WHERE PROVISIONS HAVE BEEN MADE IN THE BUILDING FOR THE ACCOMODATION OF THIS INSTALLATION, BEFORE PROCEEDING WITH THE WORKS, THE CONTRACTOR IS TO CHECK AND CONFIRM THAT THE PROVISIONS ARE SATISFACTORY FOR THE WORKS, AND WHERE AMENDMENTS ARE REQUIRED. RELEVANT DETAILS ARE TO BE PROVIDED IN A TIMELY MANNER.

14. COORDINATE WITH BUILDER FOR ALL BUILDERS WORK REQUIREMENTS. WALL OPENINGS TO BE SPECIFIED BEFORE WALL CONSTRUCTION TO ALLOW BUILDER TO ERECT WALL WITH ALL OPENINGS PROPERLY SIZED AND FINISHED. COORDINATE WALL OPENINGS WITH OTHER TRADES AND ADJUST RETICULATION AS NECESSARY TO PROVIDE SEPARATION BETWEEN WALL OPENINGS.

15. ANY AND ALL PERMITS REQUIRED FOR THE INSTALLATION OF ANY MATERIAL SHALL BE OBTAINED AS PART OF THE WORK INCLUDING ALL PAYMENTS OF FEES OR EXPENSES INCURRED.

16. ALL INSTALLATIONS SHALL BE PLUMBED AND LEVEL TO THE BUILDING STRUCTURE.

17. INSTALL ALL EQUIPMENT AND OTHER APPURTENANCES IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, CONTRACT DOCUMENTS, APPLICABLE CODES AND REGULATIONS. REFER TO ARCHITECTURAL DRAWINGS AND FIXTURE CATALOGUES FOR EXACT LOCATIONS OF ALL FIXTURES AND EQUIPMENT.

18. INSTALL ALL EQUIPMENT IN ACCESSIBLE LOCATIONS. WHERE EQUIPMENT MUST BE INSTALLED ABOVE AN INACCESSIBLE CEILING OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED AND THE LOCATION SHALL BE COORDINATED WITH THE ARCHITECT.

19. CONTRACTOR TO COORDINATE PERMANENT CEILING ACCESS TO VALVES, EQUIPMENT AND DEVICES IN THE CEILING VOID REQUIRING FUTURE MAINTENANCE.

20. ALL MATERIALS TO BE USED SHALL BE BRAND NEW AND OF THE APPROVED TYPE FOR LOCATION AND PURPOSES.

21. ALL EQUIPMENT AND CONTROLLERS INSTALLED OUTDOORS SHALL BE WEATHERPROOF TYPE AND RATED FOR OUTDOOR USE.

22. ALL EQUIPMENT REQUIRING ELECTRICAL POWER SUPPLY SHALL BE PROVIDED WITH CODE COMPLIANT MEANS OF ELECTRICAL SUPPLY ISOLATION. THIS MUST INCLUDE A MEANS OF LOCKING THE SUPPLY OFF FOR SAFETY DURING MAINTENANCE.

23. ALL ELECTRICAL INSTALLATIONS SHALL BE INSTALLED ACCORDING TO TIMOR LESTE ELECTRICAL CODE AND ELECTRICAL SPECIFICATION.

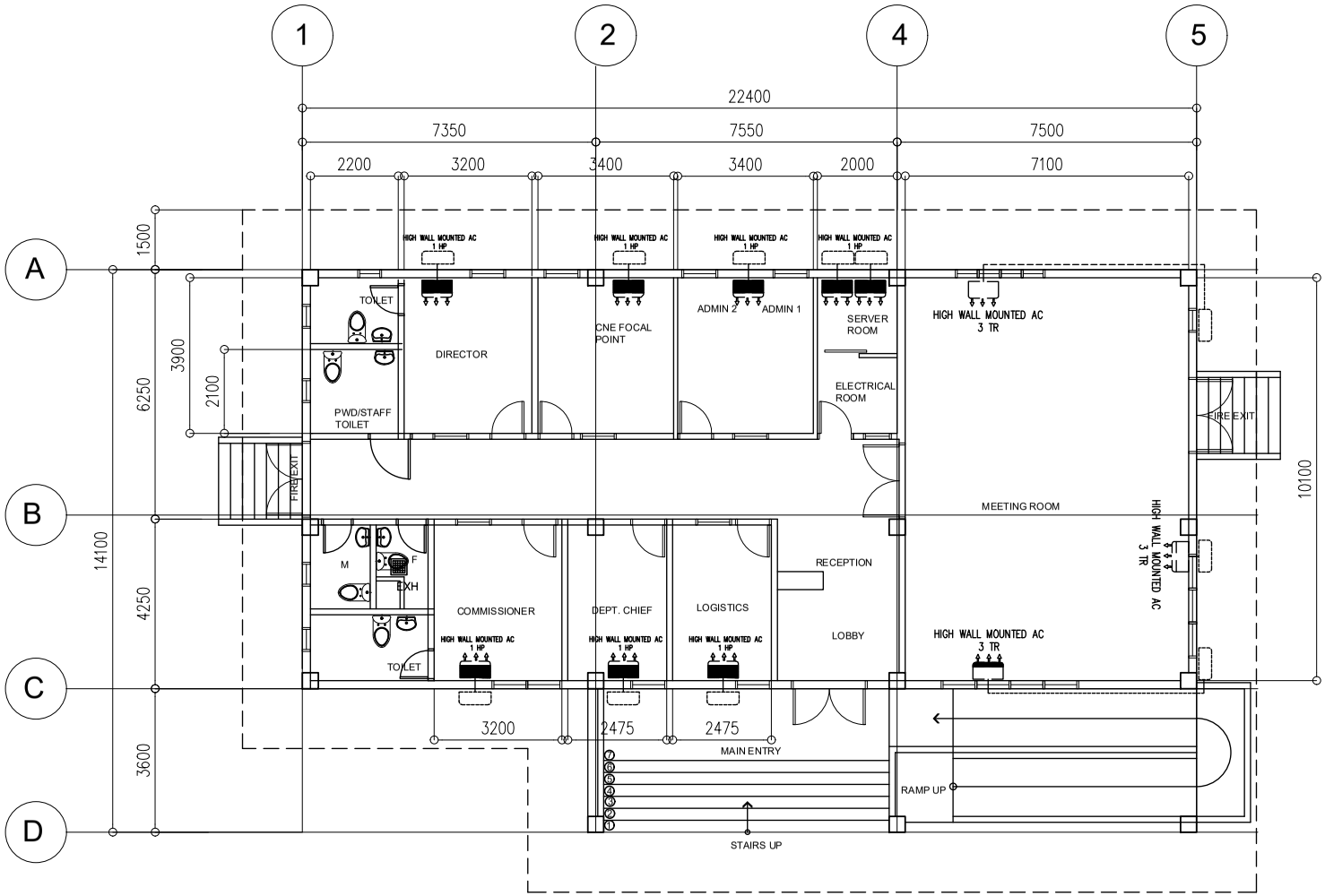
24. INSTALL ALL FLOOR MOUNTED EQUIPMENT ON CONCRETE HOUSEKEEPING PADS.

25. SUBMIT ACCURATE AS-BUILT DRAWINGS. PREPARE AS-BUILT DRAWINGS DURING CONSTRUCTION AND MEASURE LOCATION OF PIPEWORK, VALVES AND EQUIPMENT LOCATIONS BEFORE CEILINGS ARE CLOSED.

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	AIR CONDITION SCHEDULE WATER TRANSFER PUMP SCHEDULE DIESEL GENERATOR SET SCHEDULE EXHAUST FAN SCHEDULE GENERAL NOTES			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME TITO DE JESUS FILIPE DA COSTA, PROJECT MANAGER ENGR. MD SHIRAJUL ISLAM, CIVIL ENGINEER SPECIALIST
LOCATION:	DWG. NO:	REV. NO.			
COVA LIMA	M1				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY



LEGEND

HIGH WALL MOUNTED AC 2 HP — HIGH WALL SPLIT TYPE ACU

EXH — EXHAUST FAN

CNE COVA LIMA
AIR CONDITION LAYOUT

SCALE: 1:60 MTS

1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA AIR CONDITIONING LAYOUT			COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) — ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	M2				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	ORIP.SUPV. CHECKED
			ORIGINATOR			CLIENT	

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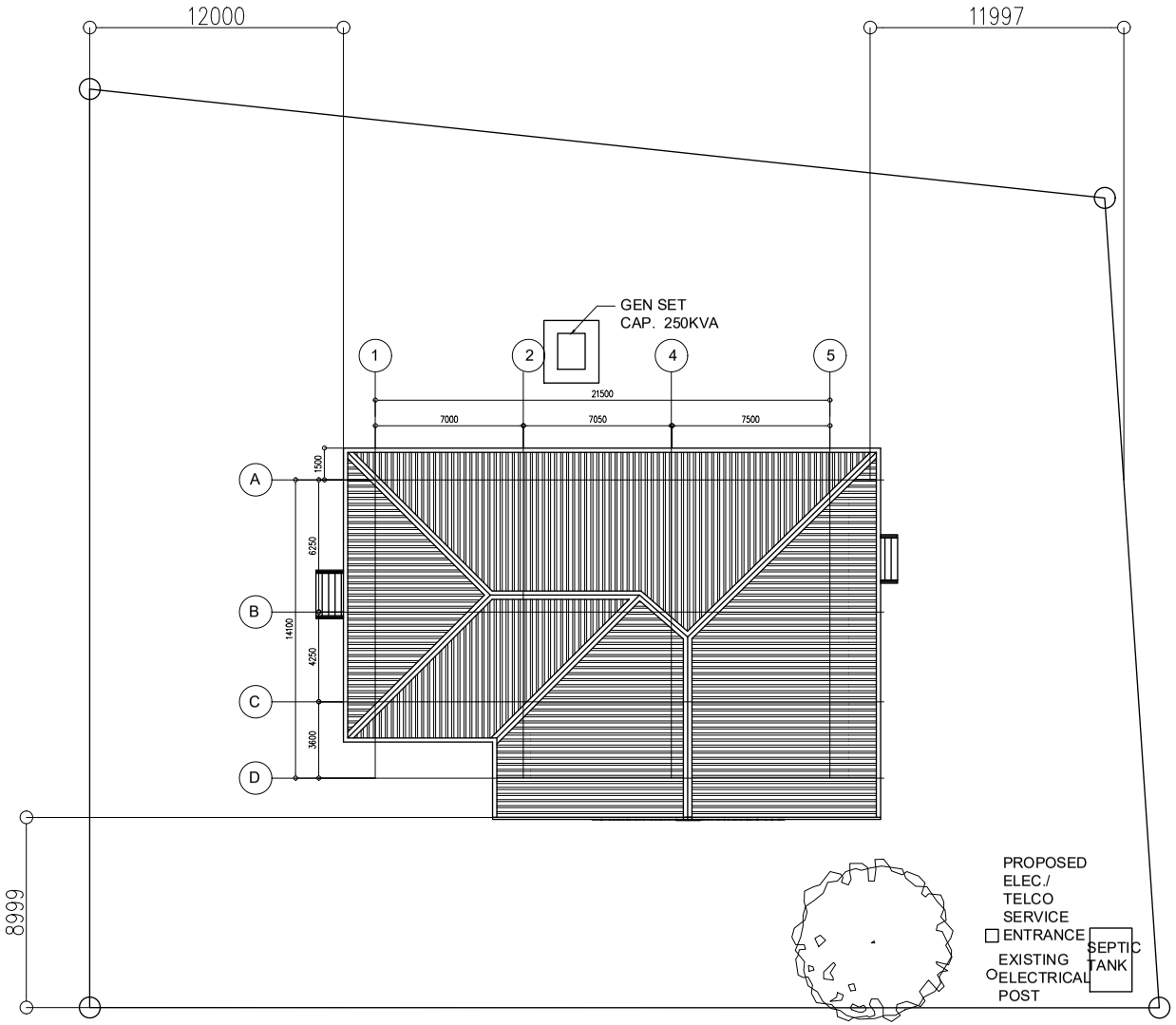
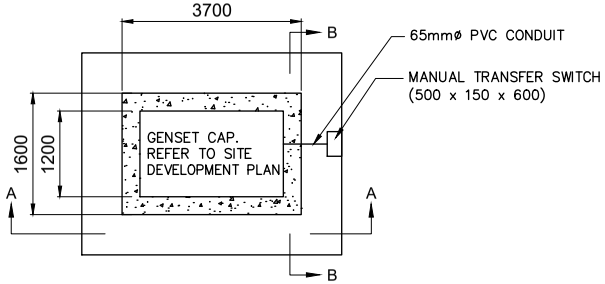
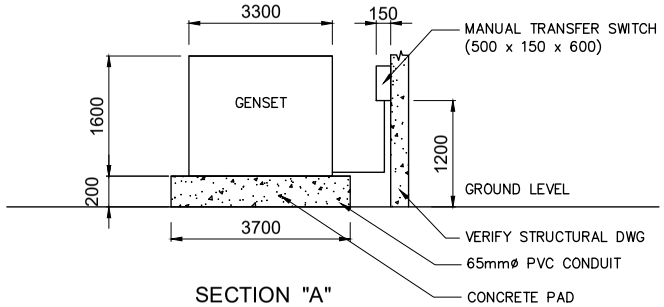




PLAN



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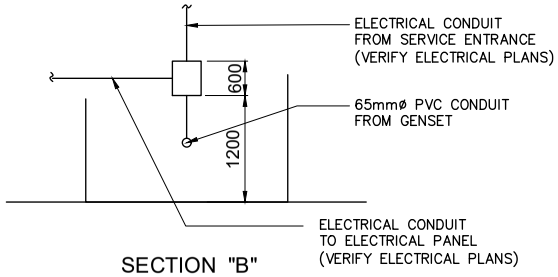
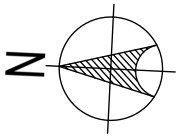


SECTION "B"

DETAIL OF GENSET

NOT TO SCALE



CNE COVA LIMA GENSET PLAN

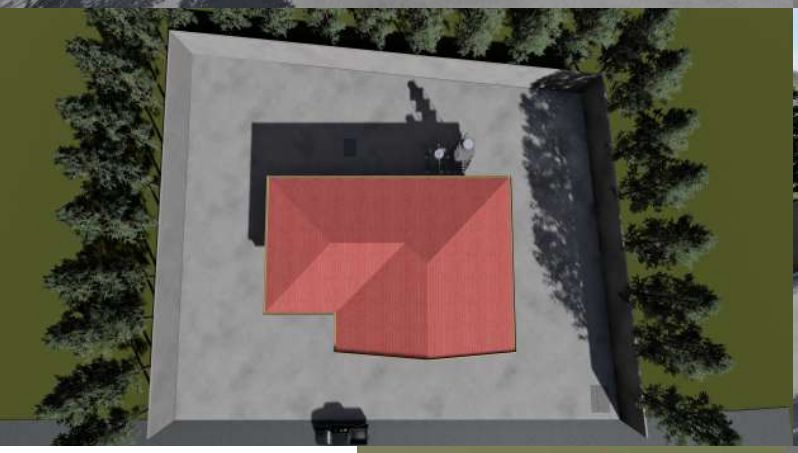
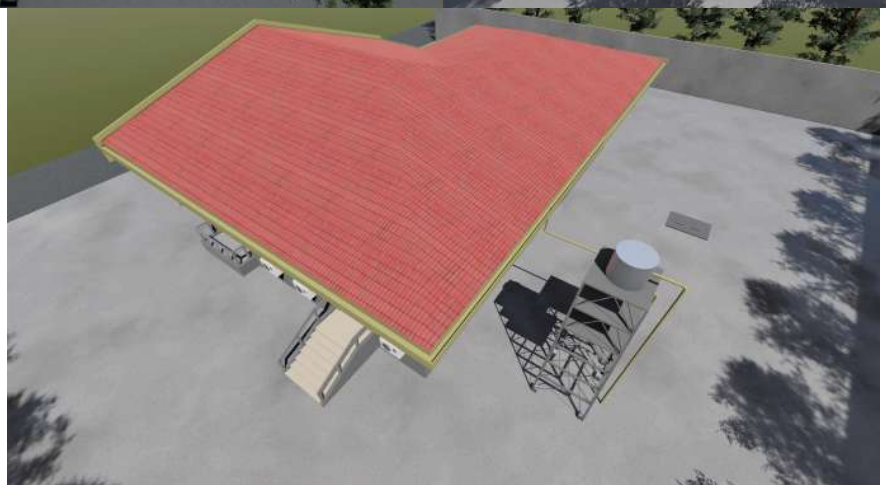
1 M 3 M 5 M
0 2 M 4 M

PROJECT TITLE:	SHEET CONTENTS:	SHEET NO.	DESIGN CONTRACTOR:	CONCESSIONAIRE:	GRANTOR:
UNDP CORE-TL	CNE COVA LIMA GENSET PLAN	A-2		COMMISSION ON NATIONAL ELECTIONS	DEMOCRATIC REPUBLIC OF TIMOR-LESTE UNITED NATIONS DEVELOPMENT PROGRAMME
LOCATION:	DWG. NO:	REV. NO.			TITO DE JESUS FILIPE DA COSTA (PROJECT MANAGER) / ENGR. MD SHIRAJUL ISLAM (CIVIL ENGINEER SPECIALIST)
COVA LIMA	M3				

REV	DATE	MARK / DESCRIPTION	DRAWN BY	CHECKED	CHECKED	SURVEY REVIEWED	DRF.SUPV. CHECKED
			-	-	-		
			ORIGINATOR			CLIENT	

REVISION HISTORY

CNE MUNICIPIO COVALIMA

CNE MUNICIPIO COVALIMA

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