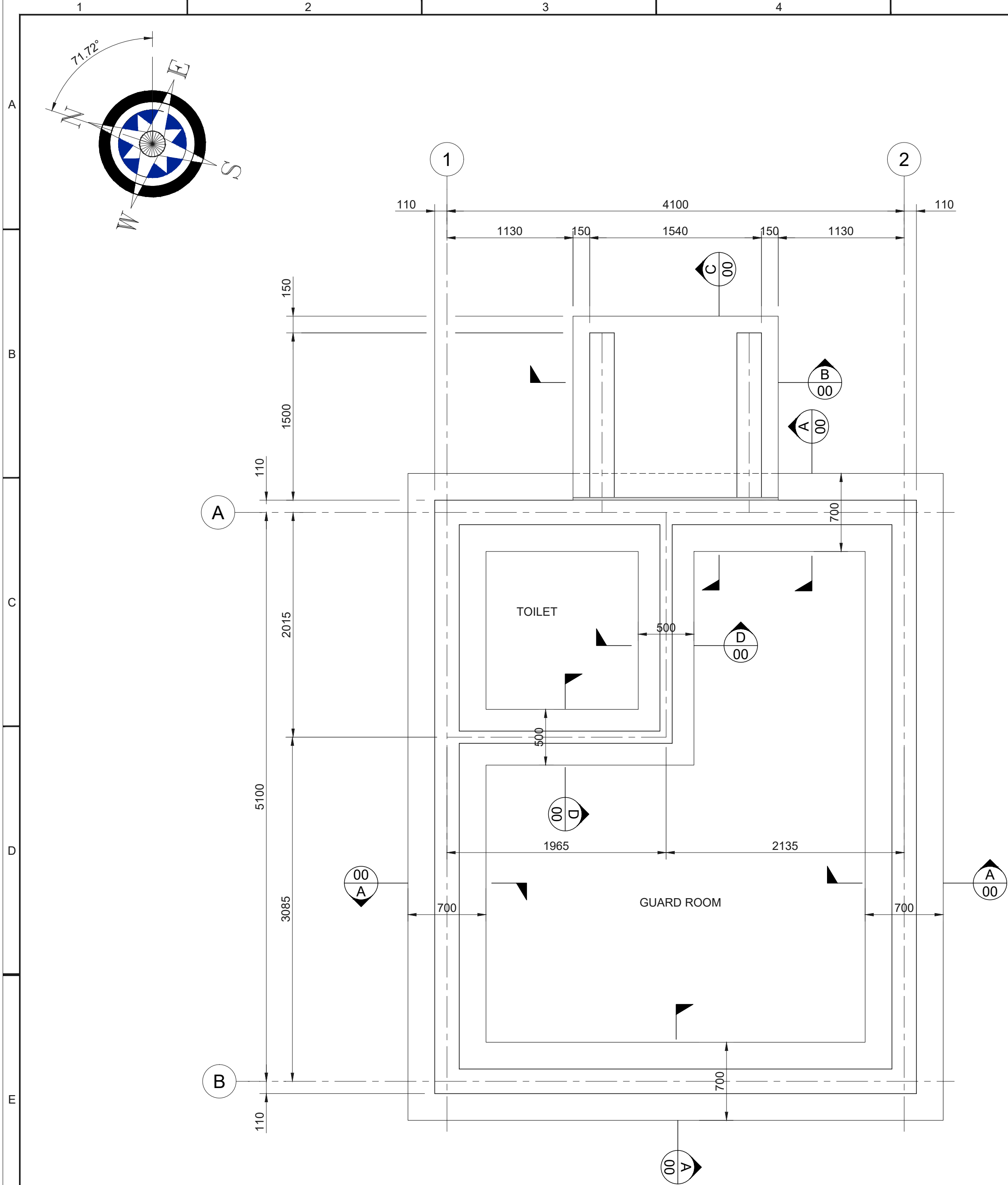
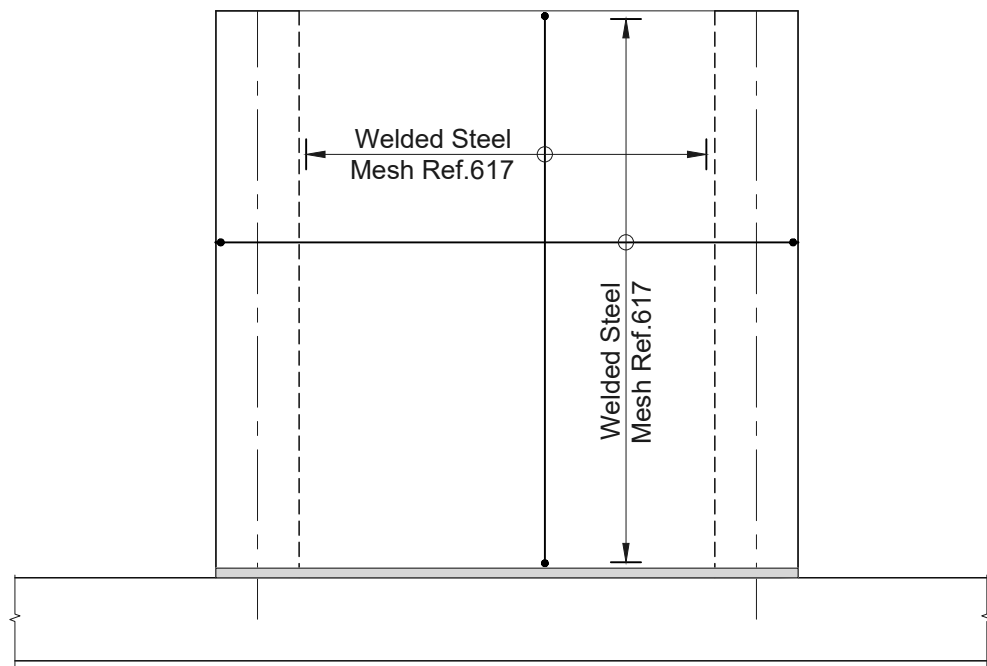


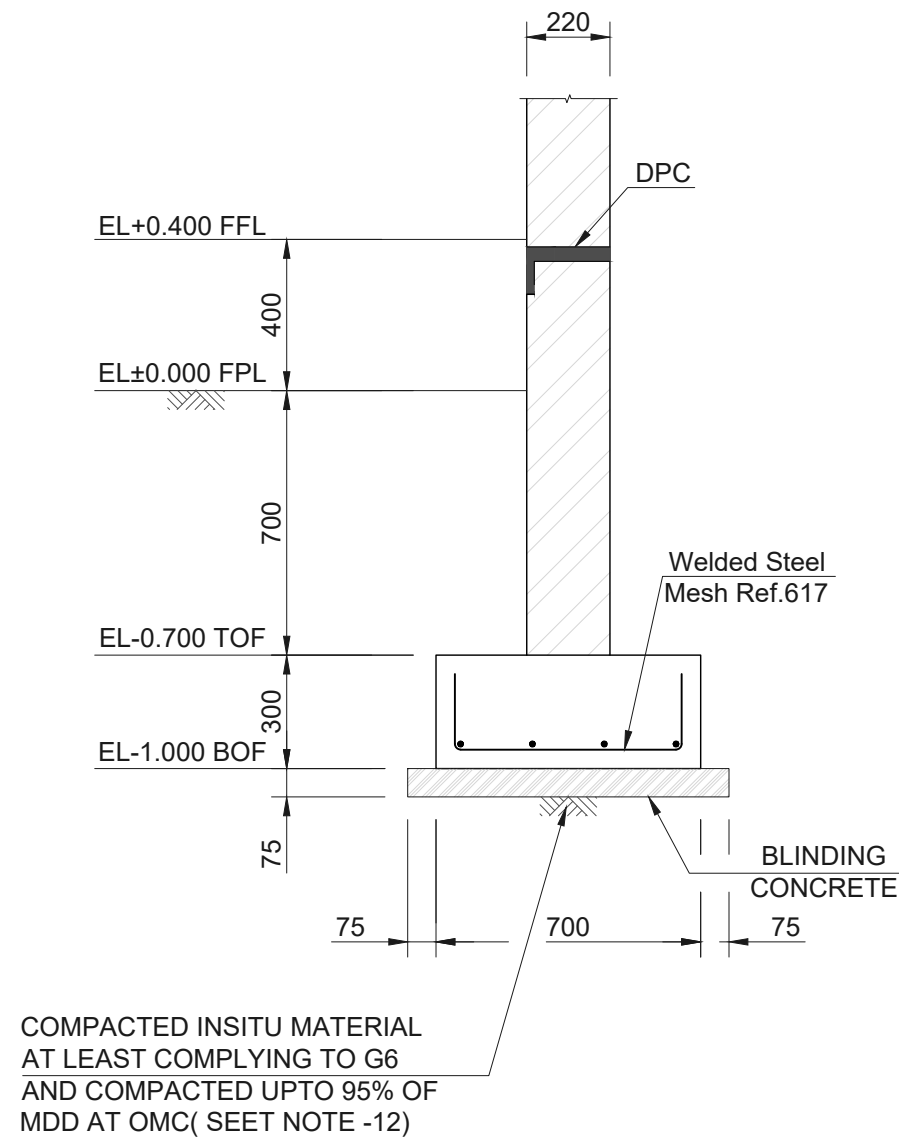
FOUNDATION & STRUCTURAL PLANS & DETAILS FOR GUARD HOUSE IN PV AREA



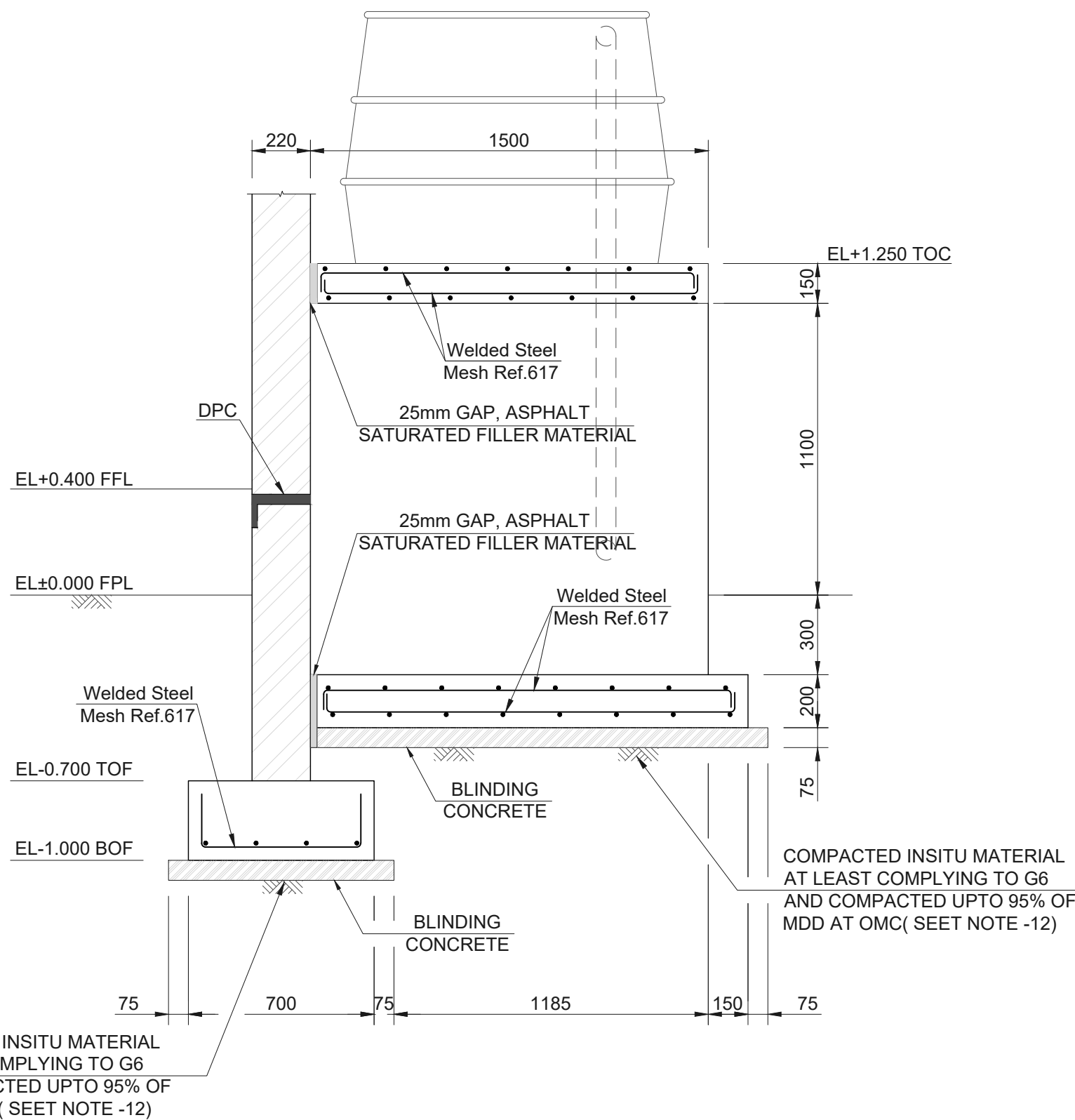
GUARD HOUSE FOUNDATION LAYOUT



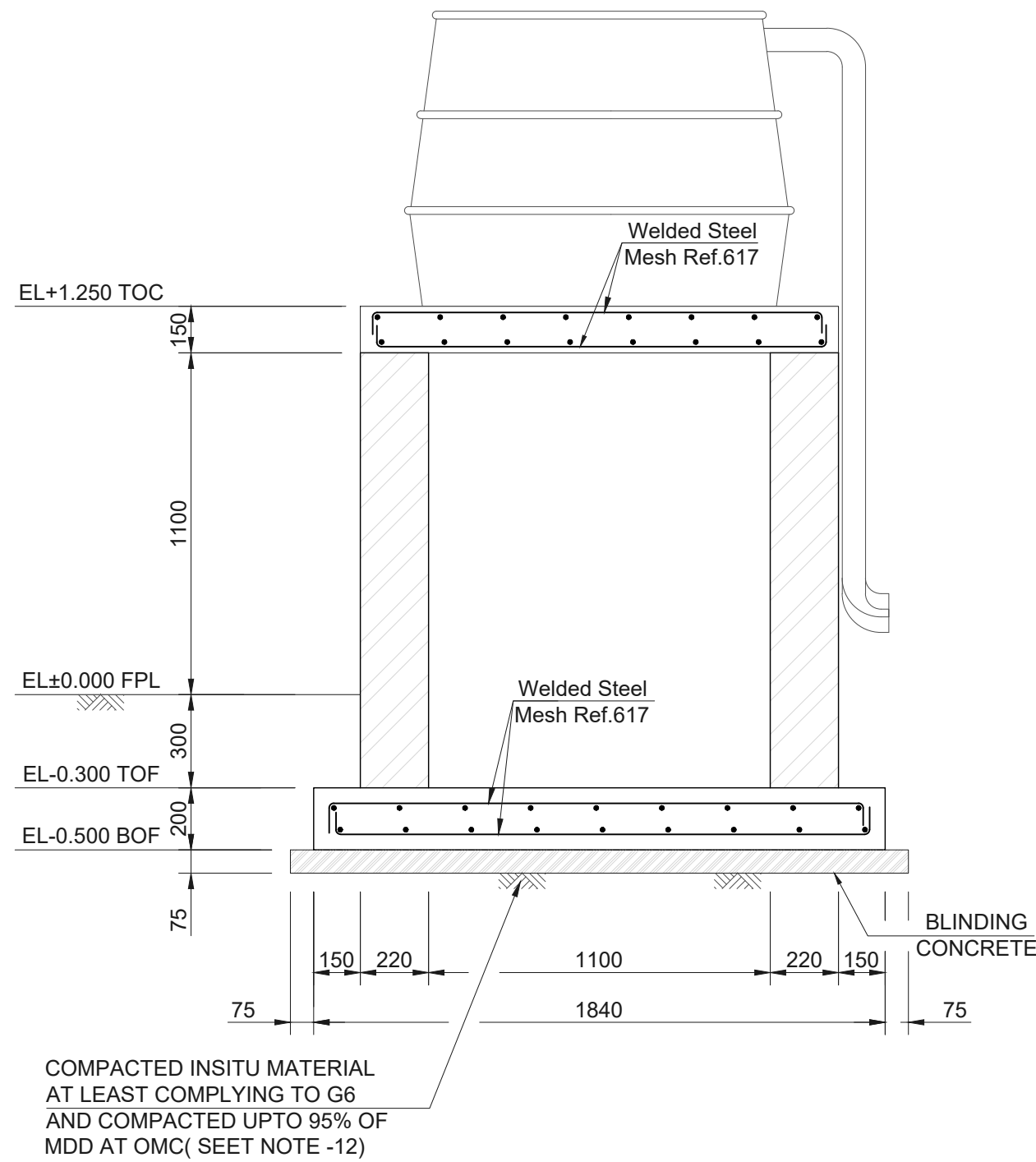
RAINWATER HARVESTING TANK TOP SLAB
LEVEL AT EL+1.250 TOC



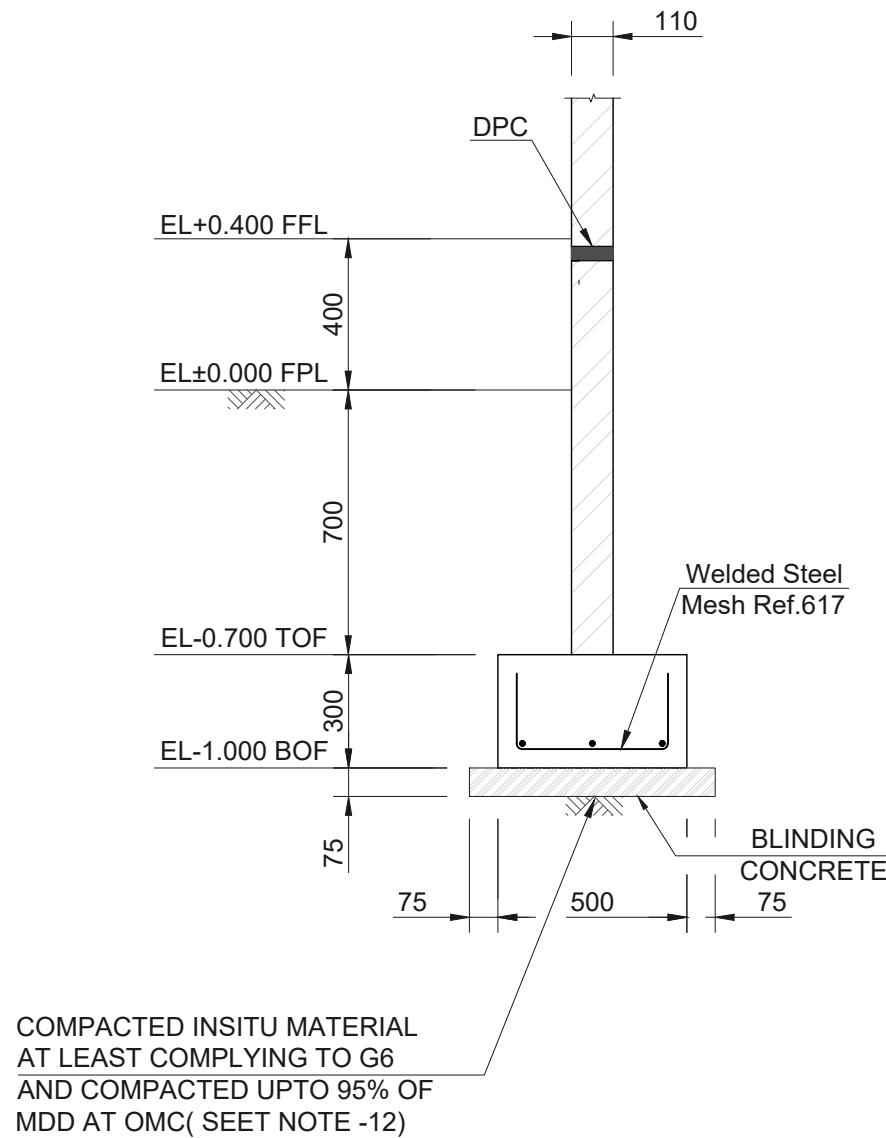
SECTION A-A
SCALE 1:20
220mm THICK WALL
TYPICAL FOUNDATION DETAIL



SECTION B-B
SCALE 1:20
110mm THICK WALL
TYPICAL FOUNDATION DETAIL



SECTION C-C
SCALE 1:20
TYPICAL FOUNDATION DETAIL



SECTION D-D
SCALE 1:20
110mm THICK WALL
TYPICAL FOUNDATION DETAIL

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE RELEVANT REFERENCE DRAWINGS. ANY DISCREPANCY SHALL BE BROUGHT TO THE NOTICE OF ENGINEER BEFORE COMMENCING WORKS.
- ALL LEVELS ARE WITH REFERENCE TO THE FINISHED PLATFORM LEVEL (FPL).
- ALL STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAY CUBE STRENGTH OF 30 MPa AS PER SANS 1200 G.
- ALL LEAN / BLINDING CONCRETE SHALL BE GRADE C20.
- ALL REINFORCEMENT STEEL BARS SHALL HAVE MINIMUM YIELD STRENGTH OF 450 MPa.
- ALL EXPOSED CONCRETE EDGES SHALL HAVE 20mm x 20mm CHAMFER.
- UNLESS NOTED OTHERWISE, LAP LENGTH SHALL BE 50 TIMES THE DIAMETER OF BARS.
- REFER TO SABS 0144 ANNEX-D FOR BOND & LAP LENGTHS. ALSO REFER SANS 282 FIGURE 3 FOR MINIMUM HOOK, BEND & RADIUS ALLOWANCES FOR STEEL BARS.
- TO ENSURE DURABILITY REQUIREMENTS OF CONCRETE, TYPE-I CEMENT WITH A MINIMUM CEMENT CONTENT OF 330 kg/m³ & A MAXIMUM WATER CEMENT RATIO SHOULD NOTE EXCEED 0.5.
- ALL CONCRETE MEMBERS SHALL HAVE A MINIMUM CLEAR COVER TO REINFORCEMENT AS FOLLOWS:
 - BEAM : 40mm
 - SLABS : 20mm
 - FOUNDATION : 50mm
- ANY LOOSE MATERIAL OR SAND IF ENCOUNTERED AT BOF LEVEL SHALL BE REPLACED USING G-6 MATERIAL COMPACTED IN LAYERS NOT MORE THAN 150mm THICK.
- FOUNDATIONS ARE DESIGNED FOR SOIL BEARING CAPACITY OF 150KPa AS PER GEOTECH REPORT.
- ALL CIVIL WORKS TO BE CONDUCTED AS PER SANS 1200 D.
- PRIOR TO EXECUTION, BBS (BAR BENDING SCHEDULE) MUST BE VERIFIED ON SITE; ANY DISCREPANCIES MUST BE BROUGHT TO THE ATTENTION.
- ALL LOAD BEARING MASONRY WALLS SHALL COMPRISE OF CLAY BRICKS MASONRY UNITS COMPLYING TO SANS 227 HAVING MINIMUM COMPRESSIVE STRENGTH OF 14MPa.
- MORTAR USED FOR MASONRY WALLS SHALL BE OF CLASS II (MINIMUM 1:4 CEMENT SAND MORTAR TO BE USED.) AS PER SANS 10164-1.
- AS SUGGESTED IN THE GEOTECH REPORT SULPHATE RESISTANT CEMENT (SRC) SHALL BE USED IN ALL THE BURIED FOUNDATIONS AND ORDINARY PORTLAND CEMENT (OPC) SHALL BE USED FOR SUPERSTRUCTURES.

LEGENDS

- BOF : BOTTOM OF FOOTING
FFL : FINISH FLOOR LEVEL
TOC : TOP OF CONCRETE
FPL : FINISHED PLATFORM LEVEL
TOF : TOP OF FOOTING
TYP. : TYPICAL

- COMPACTED EARTH
BRICK MASONRY WALL
BLINDING CONCRETE

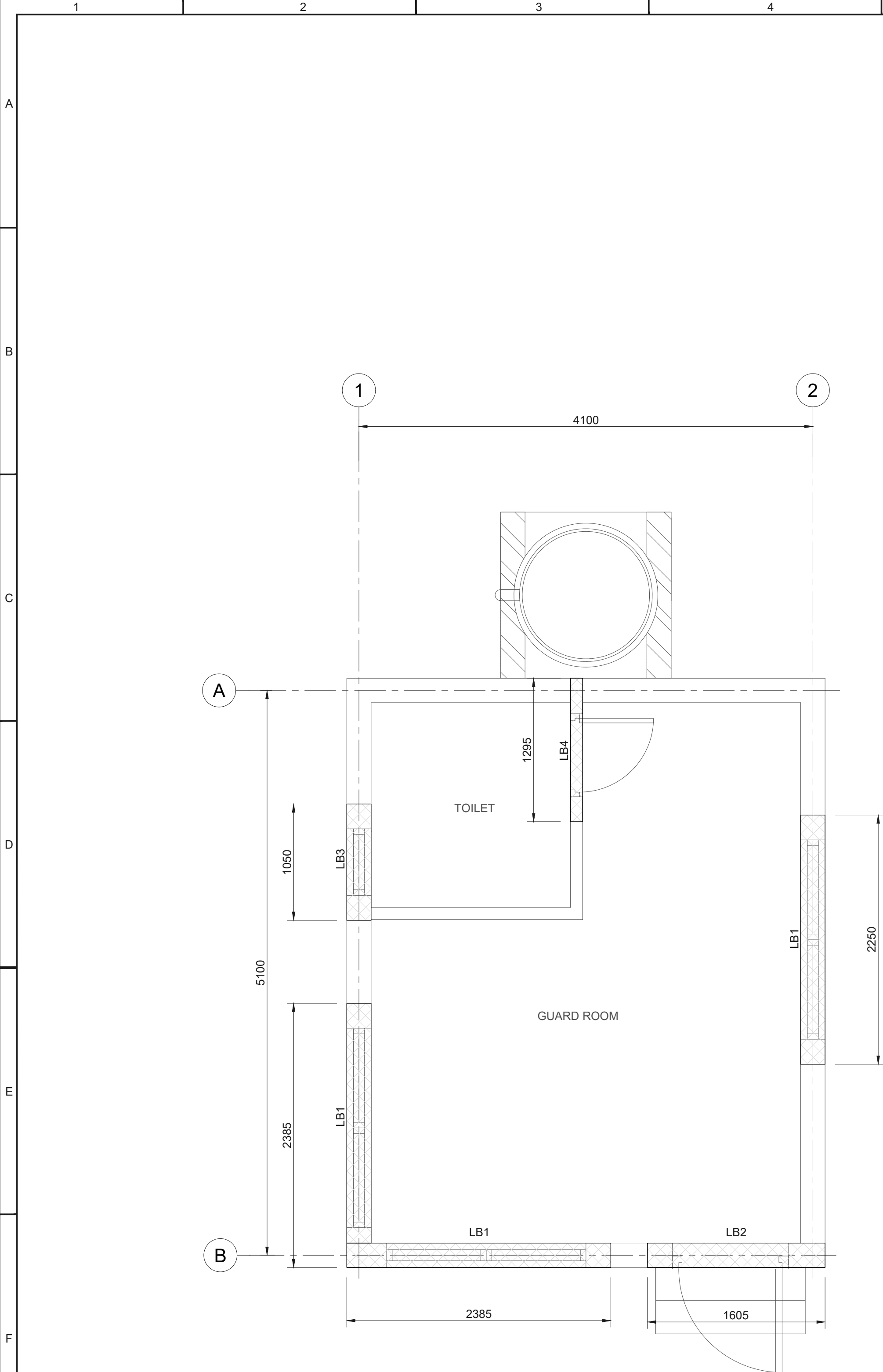
REFERENCE DRAWINGS

DRAWING TITLE		DRAWING NUMBER	
GENERAL LAYOUT OF PV AREA		NSI-MNA-00-ER-DWG-001	
INTERNAL ROAD PLAN AND DETAILS FOR PV AREA		NSI-MNA-C1-EC-DWG-004	
ACCESS ROAD PLAN AND DETAILS		NSI-MNA-C1-EC-DWG-003	
DRAINAGE LAYOUT AND DETAILS		NSI-MNA-C2-EC-DWG-008	
FENCE & GATE LAYOUT FOR THE OVERALL PLANT		NSI-MNA-F1-EC-DWG-001	
ARCHITECTURAL PLANS & DETAILS FOR GUARD HOUSE IN PV AREA		NSI-MNA-00-EA-DWG-023	
MECHANICAL SERVICES PLANS & DETAILS FOR GUARD HOUSE IN PV AREA		NSI-MNA-00-EC-DWG-026	
LIGHTING AND POWER LAYOUT FOR GUARD HOUSE		NSI-MNA-E1-EP-DLS-052	
LIGHTING AND SMALL POWER PANEL BOARD CIRCUIT SCH.FOR GUARD HOUSE		NSI-MNA-E1-EP-SCH-057	

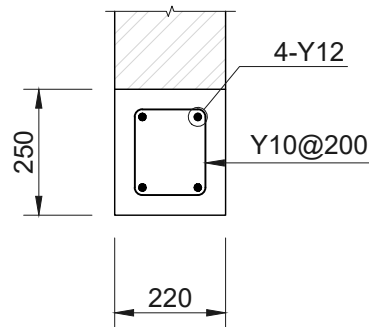
00	I	26-Mar-26	MHB	UMS	ZEE	ZAK	ISSUED FOR APPROVAL		
Rev.	Class	Date	Drwn.	Chkd.	Rvwd.	Aprd.	Description		

CLIENT		OWNER ENGINEER		EPC CONTRACTOR	
Anthem		A=1 An ABL Group Company		CNWE CHINA NUCLEAR WORLDWIDE ENGINEERING	

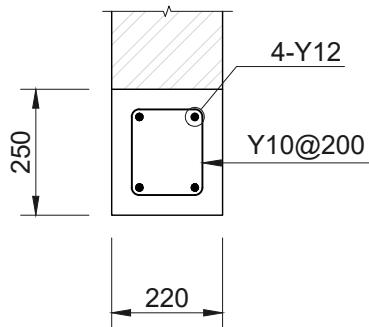
SIZE	PROJECT:					
A1	NOTSI 475MW SOLAR PHOTOVOLTAIC PROJECT					
SCALE	DRAWING TITLE:					
1:30	FOUNDATION & STRUCTURAL PLANS & DETAILS FOR GUARD HOUSE IN PV AREA					
SHEET NO.						
02/03						
PROFESSIONAL ENGINEER:		NAME			NUMBER	
		V.SIBOIBOI 			202001487	
PROJECT	ISSUER	AREA	DISCIPLINE	TYPE	SEQUENCE	REV. NO.
NSI	MNA	00	ES	DWG	024	00



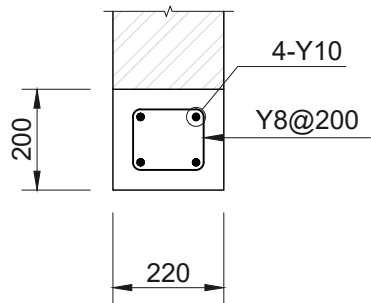
GUARD HOUSE LINTEL BEAM LAYOUT



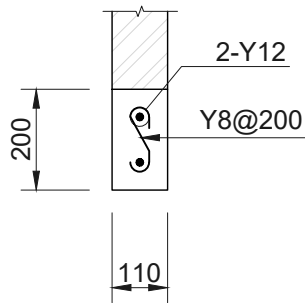
LINTEL BEAM LB1
SCALE 1:15



LINTEL BEAM LB2
SCALE 1:15



LINTEL BEAM LB3
SCALE 1:15



LINTEL BEAM LB4
SCALE 1:15

- NOTES
- FOR NOTES, LEGENDS & REFERENCE DRAWINGS REFER (NSI-MNA-00-ES-DWG-024 SHEET-02/03).
 - LINTEL BEAM'S SOFFIT ELEVATION SHOULD BE DETERMINED IN STRICT COMPLIANCE TO DOORS/WINDOWS HEIGHTS GIVEN IN ARCHITECTURE.
 - MINIMUM BEARING LENGTH OF LINTEL BEAM ON WALL SHOULD BE 220mm ON EITHER SIDES. OR AS INDICATED IN THE LAYOUT.
 - LINTEL BEAM CONCRETE SHALL HAVE MINIMUM 28 DAY CUBE STRENGTH OF 30 MPa AS PER SANS 1200 G.

00	I	26-Mar-26	MHB	UMS	ZEE	ZAK	ISSUED FOR APPROVAL					
Rev.	Class	Date	Drwn.	Chkd.	Rvwd.	Aprd.	Description					
CLIENT			OWNER ENGINEER				EPC CONTRACTOR					
Anthem			A=L An ALB, Group Company				CNWE 中国水电工程集团有限公司 CERC 中国水电工程集团成都勘测设计研究院有限公司					
SIZE		PROJECT:										
A1		NOTSI 475MW SOLAR PHOTOVOLTAIC PROJECT										
SCALE		DRAWING TITLE:										
1:30		FOUNDATION & STRUCTURAL PLANS & DETAILS FOR GUARD HOUSE IN PV AREA										
SHEET NO.												
03/03												
PROFESSIONAL ENGINEER:			NAME				NUMBER					
			V.SIBOIBOI				202001487					
PROJECT	ISSUER	AREA	DISCIPLINE			TYPE	SEQUENCE	REV. NO.				
NSI	MNA	00	ES			DWG	024	00				