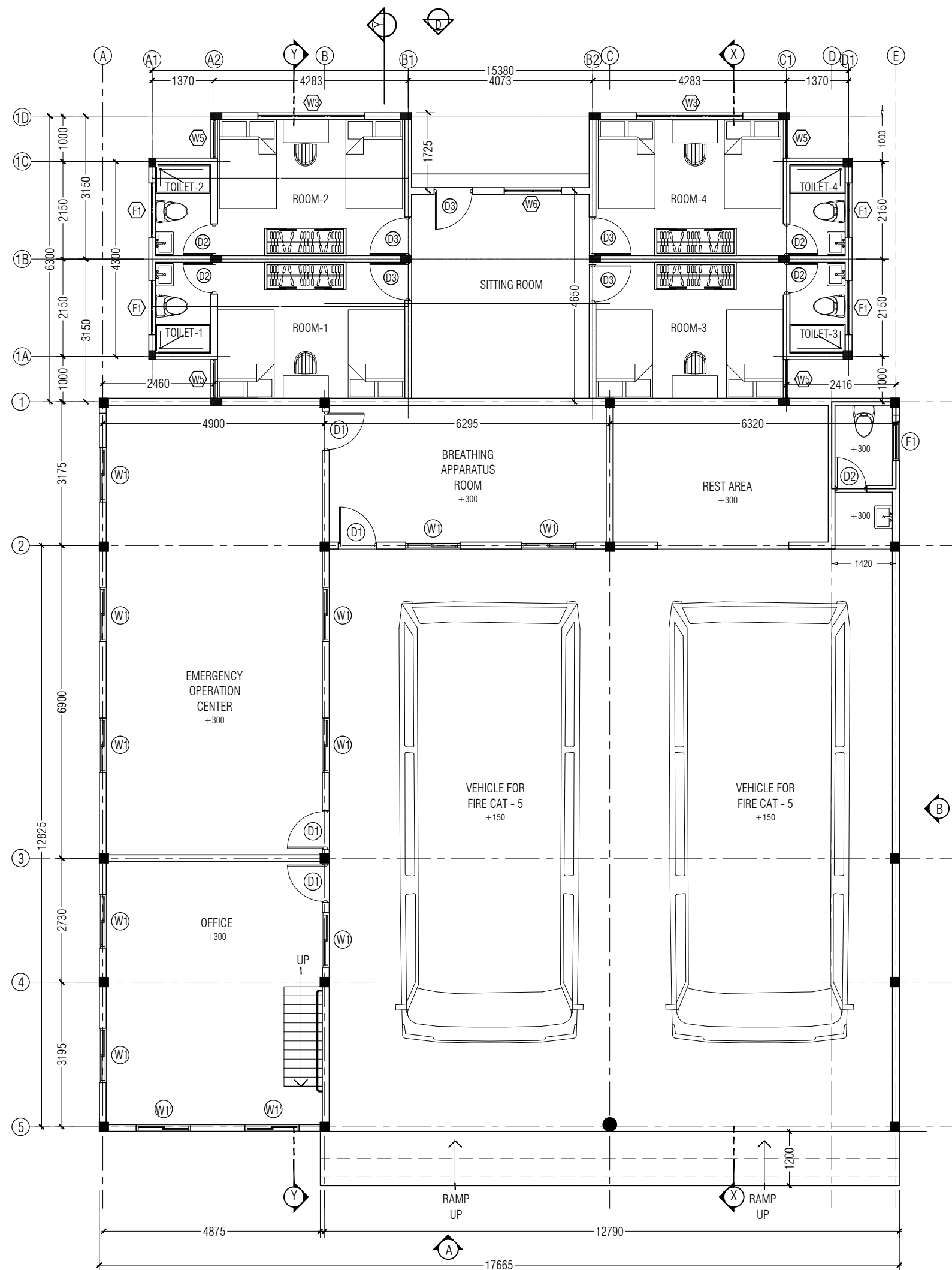


HA. A. HOARAFUSHI AIRPORT
FIRE STATION WITH FIRE ACCOMMODATION (R1)

ARCHITECTURAL, STRUCTURAL
ELECTRICAL & PLUMBING DRAWINGS

CLIENT: REGIONAL AIRPORTS



PROJECT:

HOARAFUSHI
AIRPORT

TITLE:

FIRE STATION &
FIRE STAFF
ACCOMMODATION

DRAWN BY: MAHREEN

DESIGN BY: MAHREEN

DRAWING NO: HOA/FS/01/19

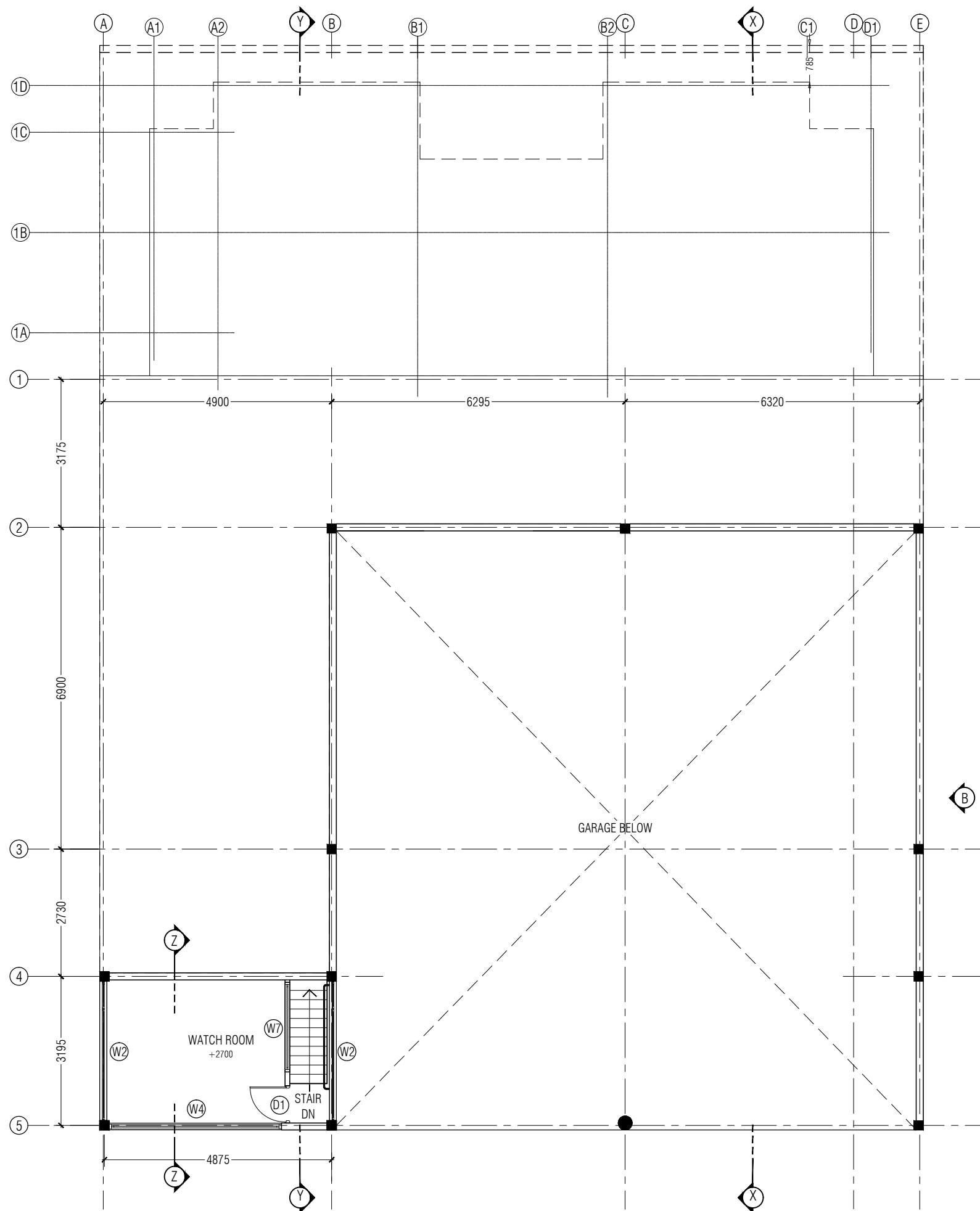
SCALE: AS SHOWN

DATE: SEPT 2019

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MEZZAININE FLOOR PLAN
SCALE 1:100



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TITLE:

FIRE STATION &
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ACCOMMODATION

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MAHREEN

DESIGN BY:

MAHREEN

DRAWING NO:

HOA/FS/02/19

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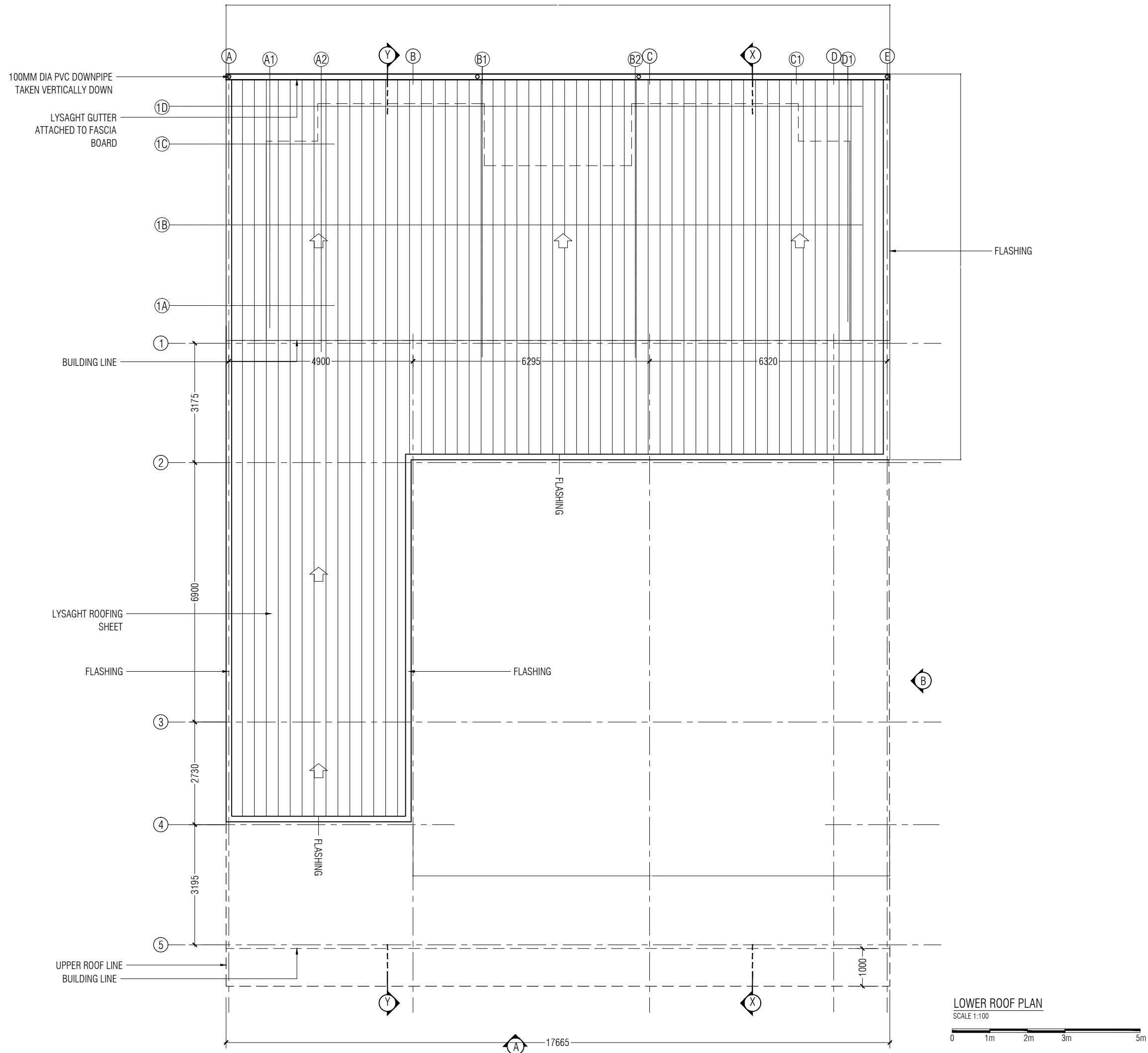
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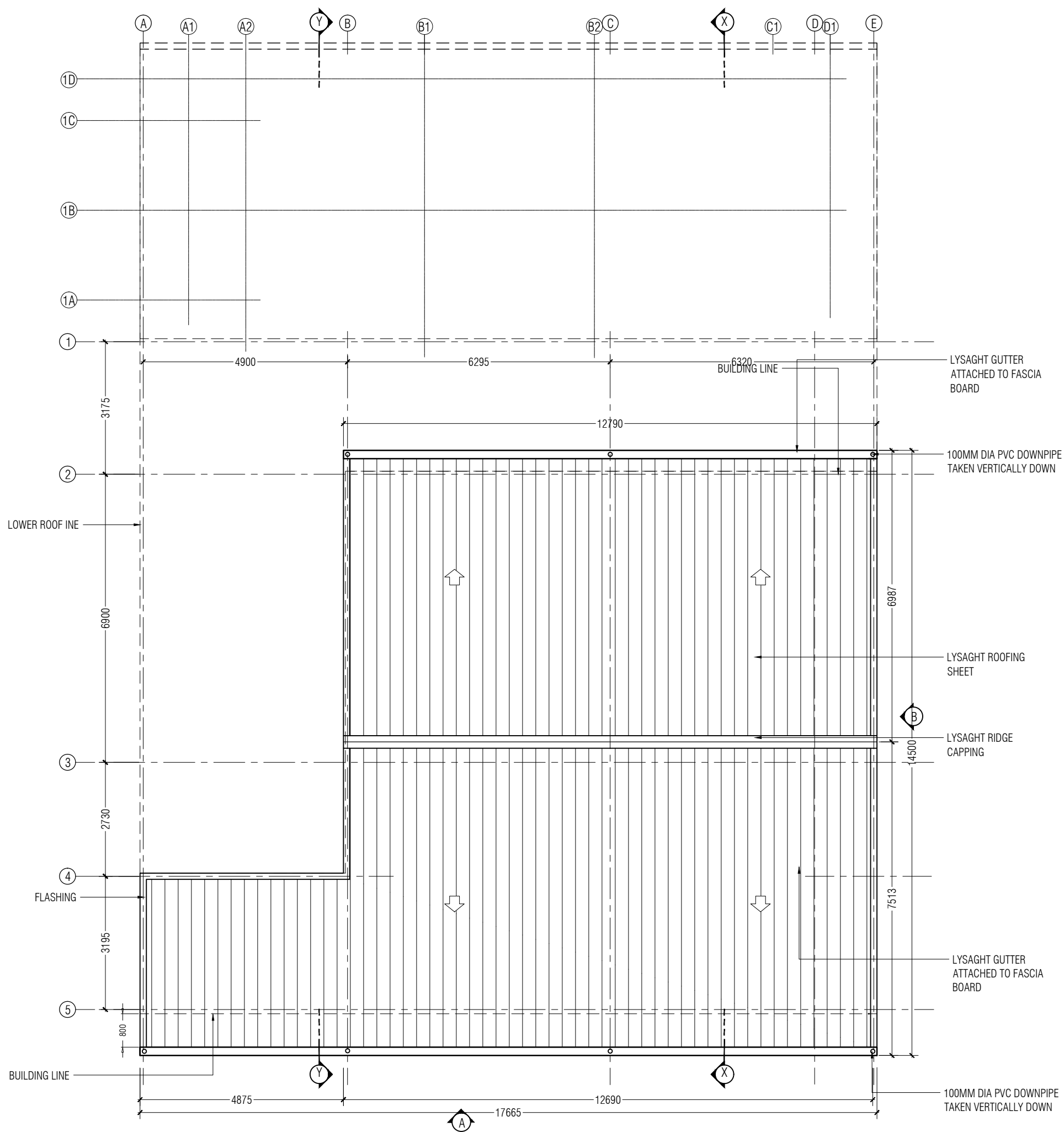
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DRAWING NO:	HOA/FS/03/19
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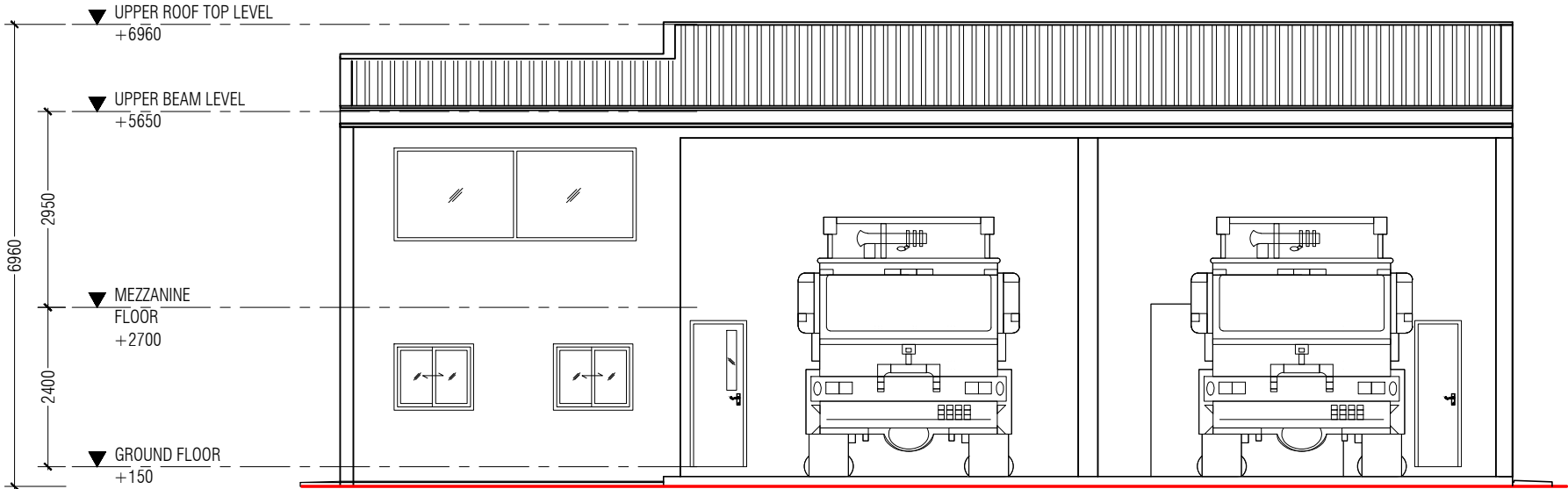
UPPER ROOF PLAN
SCALE 1:100



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TITLE:	
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DRAWING NO:	HOA/FS/04/19
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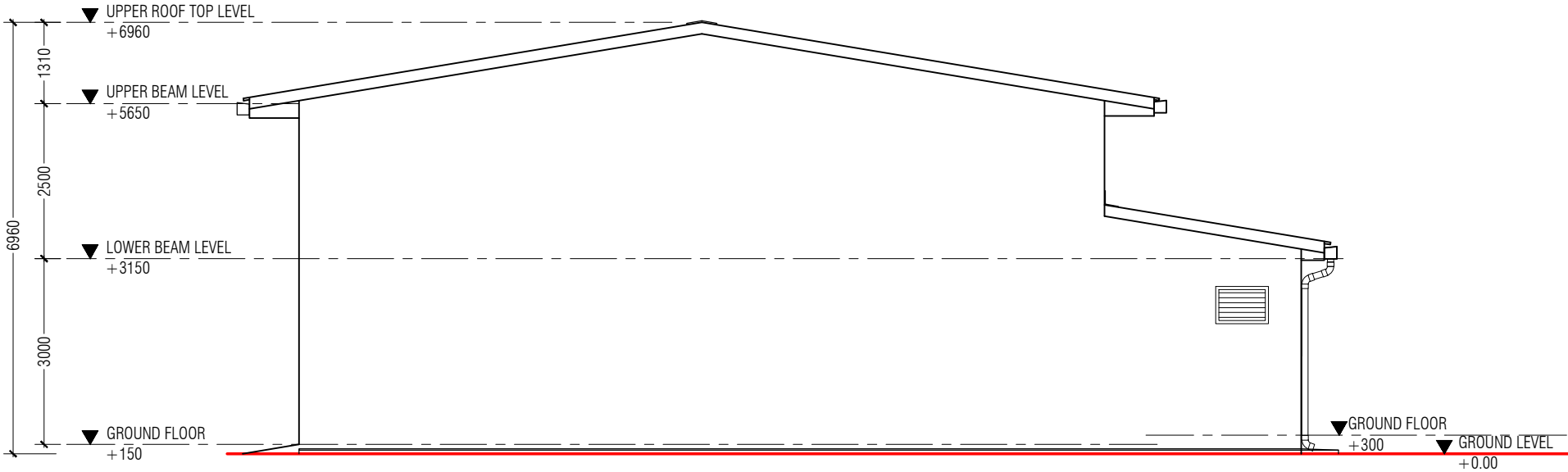


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ELEVATION A

SCALE 1:100



ELEVATION B

SCALE 1:100



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TITLE:
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ACCOMMODATION

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DRAWING NO: HOA/FS/05/19

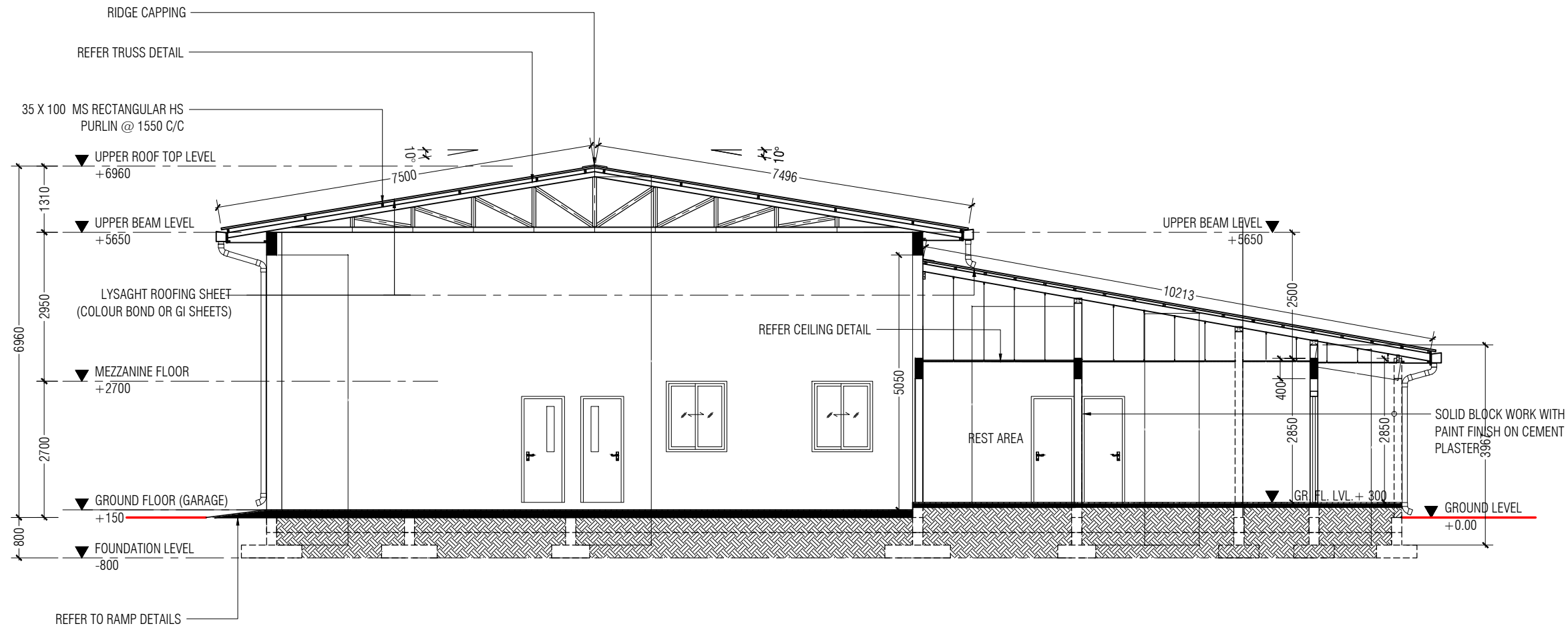
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SECTION XX
SCALE 1:200



SLAB ON GROUND:

GARAGE AREA
150 MM THK CONCRETE :
REINFORCEMENT @ 200

25MM CEMENT SCREED :
CONCRETE FINISH BY PVC
LAYERED ABOVE CONCRETE

OTHER AREAS
80 MM THK CEMENT SAND
THICK PVC MESH REINFORCING
MM GRID

25MM THK SCREEDING OVER
FINISH AS PER SPECIFICATION

500 GAUGE POLYTHENE SHEET
PROVIDED TO THE BOTTOM OF
SOIL UNDERNEATH GROUND

PROJECT:

HOARAFUSHI
AIRPORT

TITLE:

FIRE STATION &
FIRE STAFF
ACCOMMODATION

DRAWN BY:

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DESIGN BY:

MAHREEN

DRAWING NO:

HOA/FS/06/19

SCALE:

AS SHOWN

DATE:

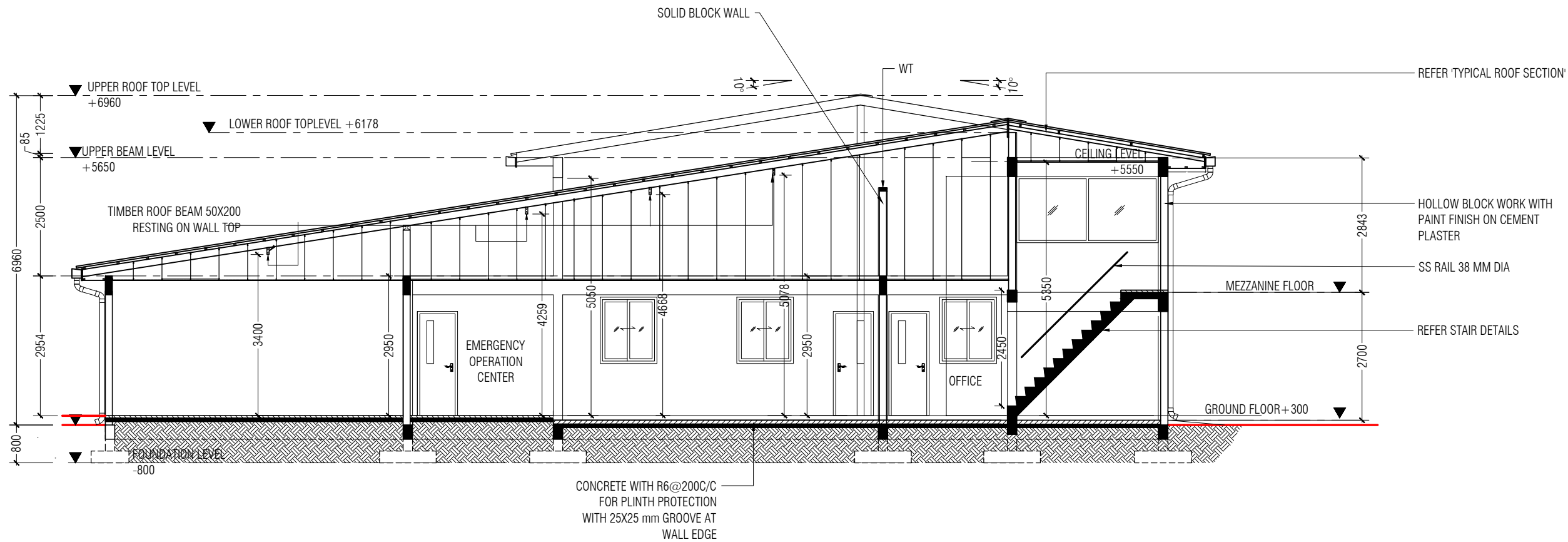
SEPT 2019

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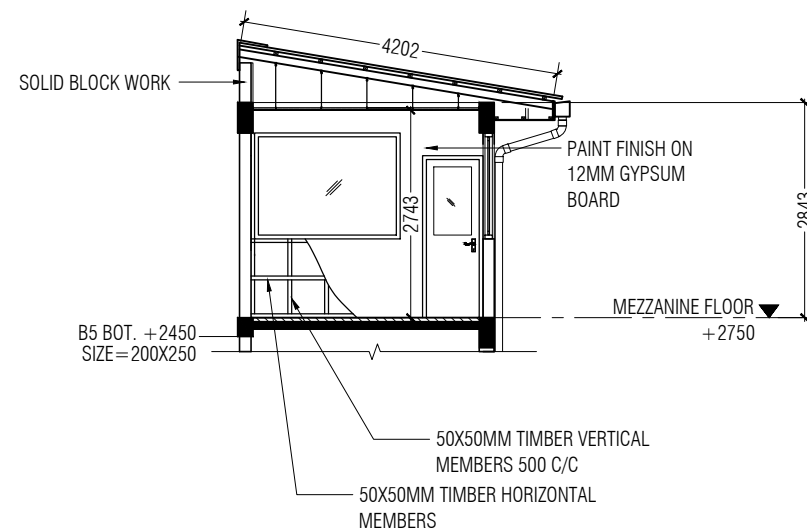
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SECTION YY
SCALE 1:200



SECTION ZZ
SCALE 1:200



PROJECT:

HOARAFUSHI
AIRPORT

TITLE:

**FIRE STATION &
FIRE STAFF
ACCOMMODATION**

DRAWN BY:

MAHREEN

DESIGN BY:

MAHREEN

DRAWING NO:

HOA/FS/07/19

SCALE:

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DATE:

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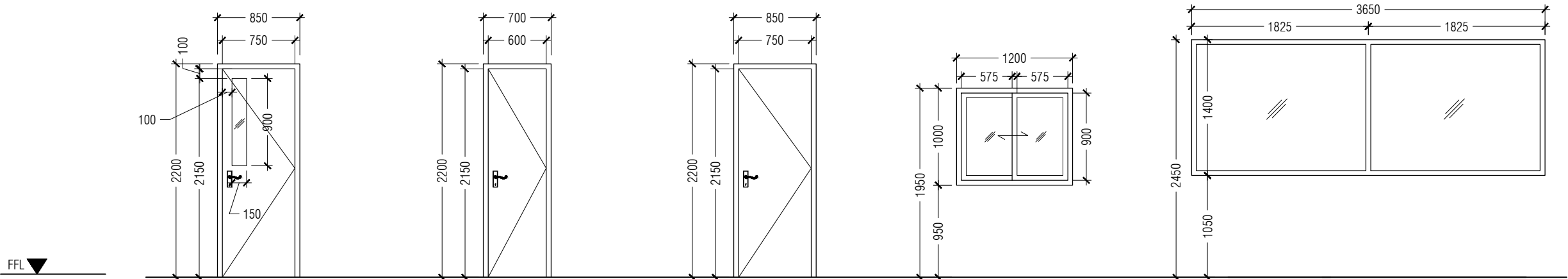
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D/W #	D104 NO.S		D205 NO.S		D305 NO.S		W112 NO.S		W401 NO.S	
DOOR FRAME	POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)	
PANEL	TIMBER HOLLOW PANEL - PAINT FINISH		TIMBER HOLLOW PANEL - PAINT FINISH		PVC READY MADE PANEL		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)	
FINISHES	WHITE	CLEAR GLASS-5MM	WHITE		WHITE		WHITE	CLEAR GLASS-6MM	WHITE	CLEAR GLASS-6MM

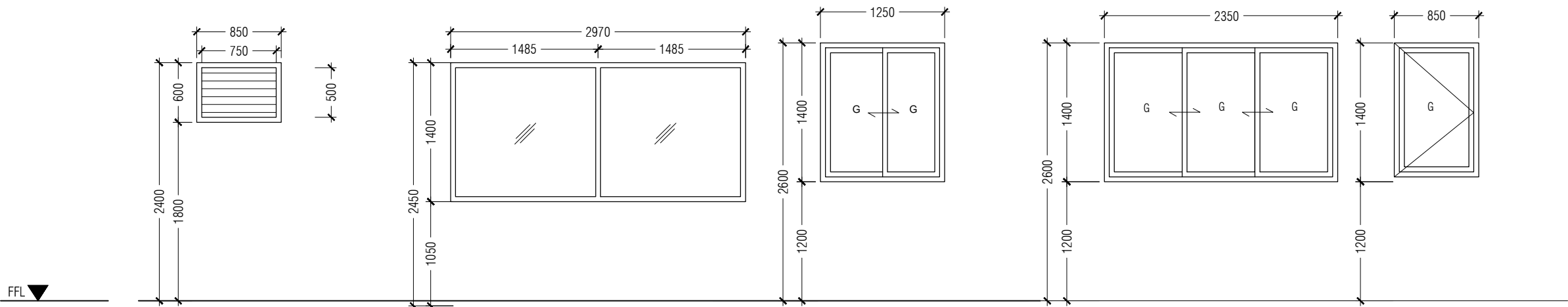


GENERAL NOTES:

DIMENSION SHOWN ON DRAWINGS INDICATE EFFECTIVE OPENINGS OF FRAME. ALL WOODEN FRAME DEPTHS ARE 100MM. WOODEN DOOR PANEL THICKNESS = 35MM

EXTERNAL UNITS MUST COMPLY THE FOLLOWING WEATHER CONDITIONS:
-WIND PRESSURE: 200 Kg/sqm
-WATER TIGHTNESS: 25Kg/sqm

D/W #	F105 NO.S		W202 NO.S		W610 NO.S		W302 NO.S		W504 NO.S	
DOOR FRAME	POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)	
PANEL	POWDER COATED ALUMINUM (25 MICRON)				POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)		POWDER COATED ALUMINUM (25 MICRON)	
FINISHES	WHITE		WHITE	CLEAR GLASS-6MM	WHITE	TINTED BLACK -6MM	WHITE	TINTED BLACK -6MM	WHITE	TINTED BLACK -6MM



ALL EXTERNAL FRAMES / WALL JOI MUST BE SEALED WITH SILICON SEALANT AND WEDGES TRIMMED WITH 12 X 12MM H/W BEADING FIXED TO FRAMES BY BRASS NAILS.

ALL HARDWOOD SHALL BE PROVIDED FOR THE PERFORMANCE OF ALL FUNCTIONS OF THE UNITS.

TYPE OF GLASS USED ON DOORS / WINDOWS ARE INDICATED ON SCHEDULE WITH THICKNESS 6MM.

A.
HINGES SHALL CONFIRM AS FOLLOWS:
IF DOOR SIZE IS MORE THAN 700W X 2100H, WD: 125MM X 2 SETS
IF DOOR SIZE IS LESS THAN 700W X 2100H WD: 100MM X 2 SETS

DOOR KNOBS SHALL BE 900MM ABOVE FINISHED FLOOR LEVEL.

ABOVE ALL DOOR/ WINDOWS LINTEL BEAM MUST BE PROVIDED WITH MINIMUM 300 MM OFFSET FROM WINDOW EDGE TO BOTH SIDES

B.
DOOR SWINGS ARE INDICATED ON THE FLOOR PLANS AND ON SCHEDULE. WINDOW SWINGS ARE DEFINED ON SCHEDULE.
ALL ELEVATIONS ARE SHOWN FROM OUTSIDE.

ALL MEASUREME SHALL BE MEASURED ON SITE BEFORE FABRICATION.

DOORS AND WINDOW SCHEDULE

SCALE 1:50



PROJECT:

HOARAFUSHI AIRPORT

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FIRE STATION & FIRE STAFF ACCOMMODATION

DRAWN BY:	MAHREEN
DESIGN BY:	MAHREEN
DRAWING NO:	HOA/FS/08/19
SCALE:	AS SHOWN
DATE:	SEPT 2019
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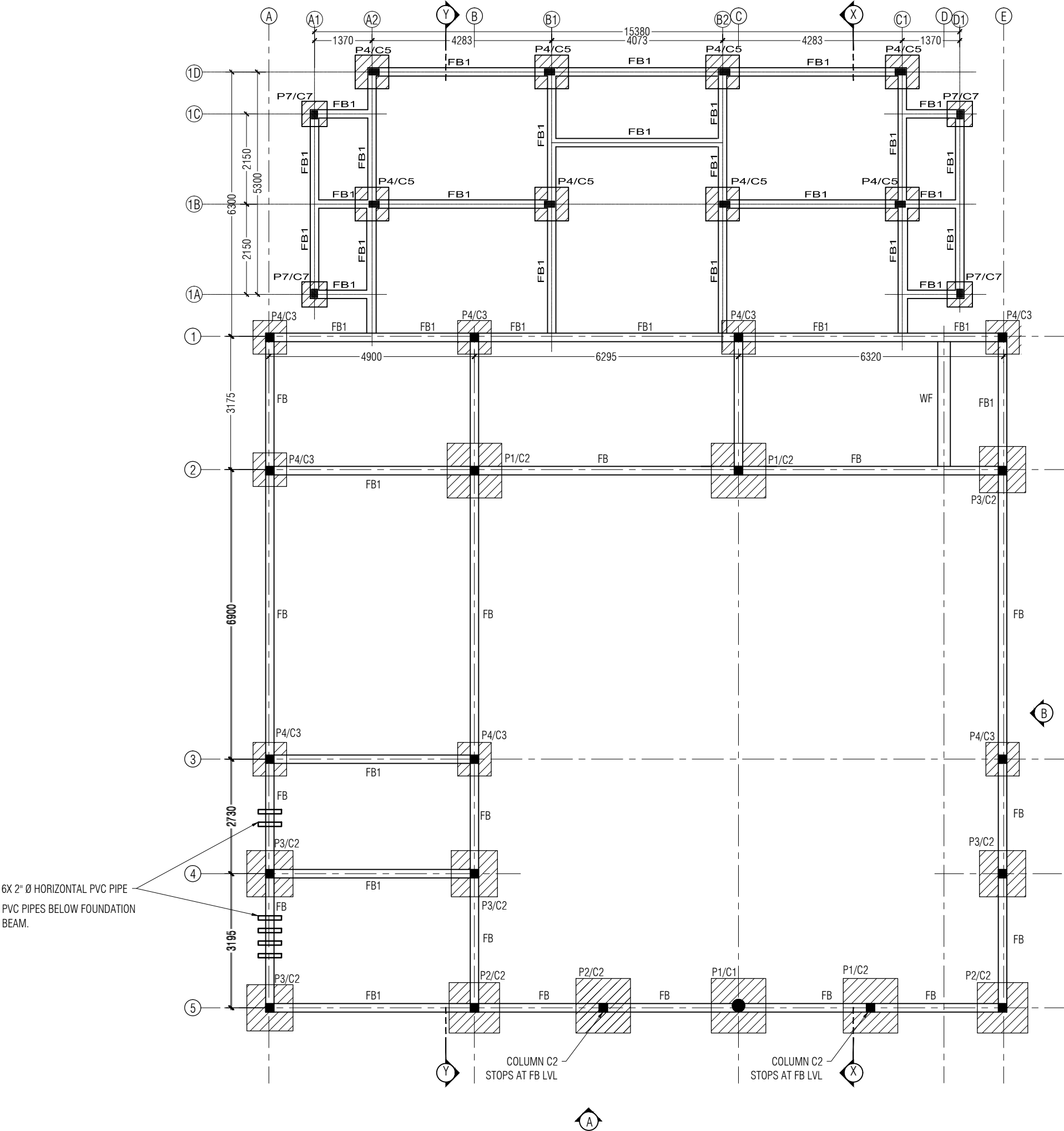
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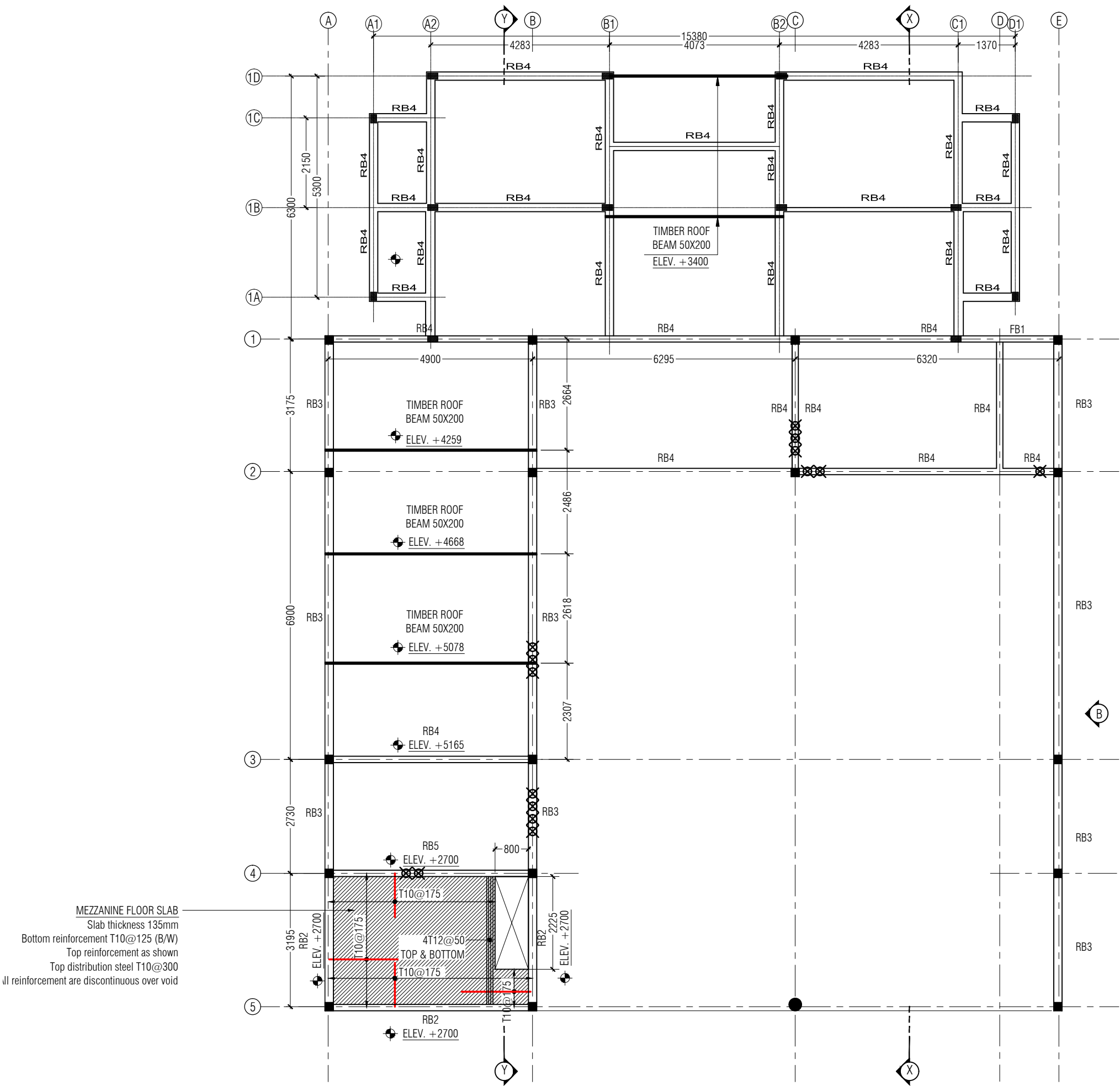
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P#	SIZE	REINFORCEMENT
P1	1300 X 1300 X 300	T12@200 C/C (B1/B2)
P2	1200 X 1200 X 300	T12@200 C/C (B1/B2)
P3	1100 X 1100 X 300	T12@200 C/C (B1/B2)
P4	800 X 800 X 250	T12@200 C/C (B1/B2)
P7	650 X 650 X 250	T10@160 C/C (B1/B2)

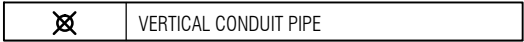
FOUNDATION & COLUMN PLAN
SCALE 1:100

PROJECT: HOARAFUSHI AIRPORT	
TITLE: FIRE STATION & FIRE STAFF ACCOMMODATION	
DRAWN BY:	MAHREEN
DESIGN BY:	MAHREEN
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NOTE:
ALL BEAMS ARE AT +3150 UNLESS OTHERWISE STATED

ALL CONDUITS ARE 1" Ø PVC CONDUITS



ALL PVC PIPES SHALL BE IN CENTER OF BEAMS.
MINIMUM SPACING OF CONDUITS IN BEAMS SHALL BE 300MM.
NO CONDUITS SHALL BE INSTALLED IN COLUMNS.

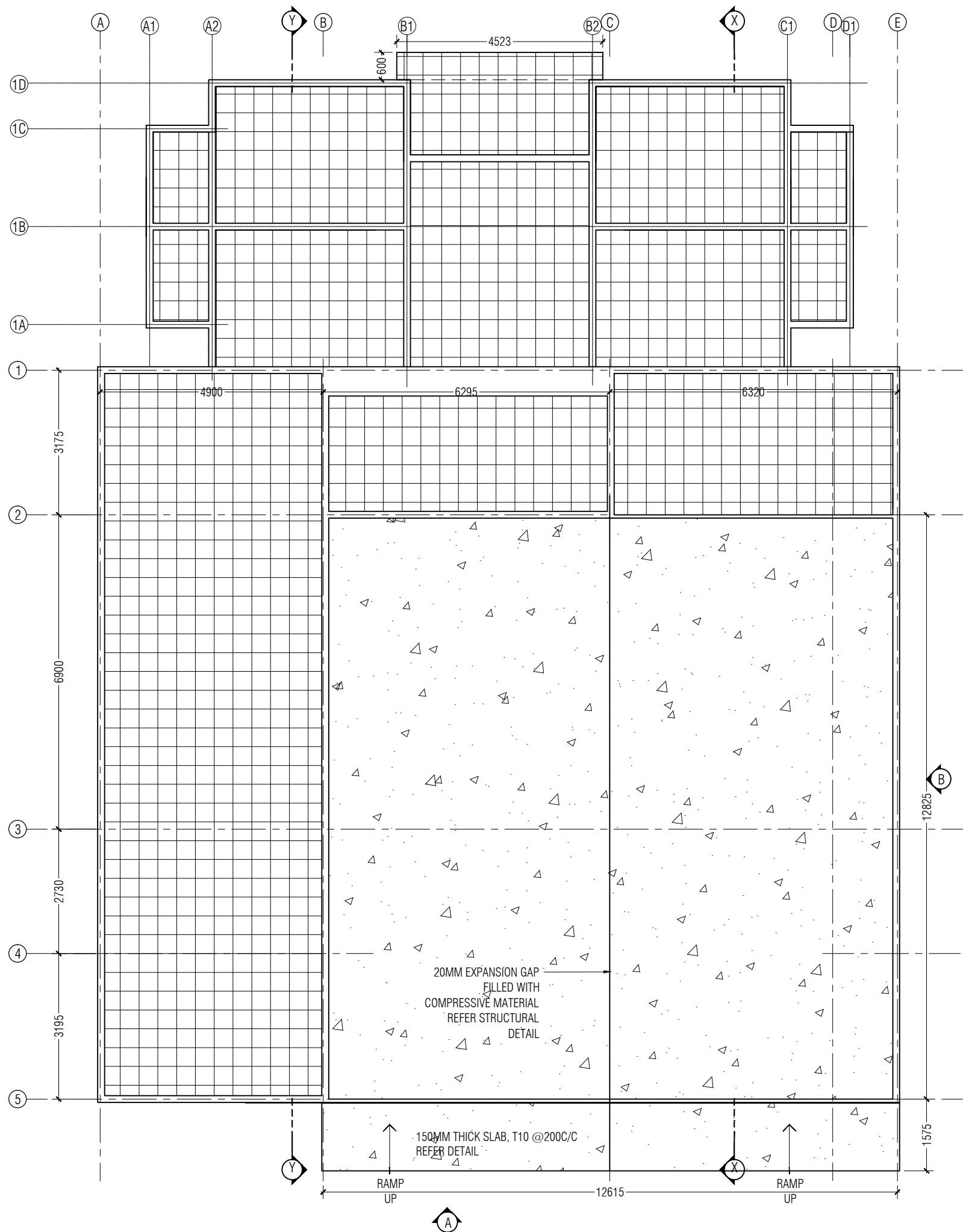
LOWER ROOF BEAM & MEZZANINE FLOOR SLAB RFMT PLAN
SCALE 1:100

PROJECT:
HOARAFUSHI
AIRPORT

TITLE:
FIRE STATION &
FIRE STAFF
ACCOMMODATION

DRAWN BY:	MAHREEN
DESIGN BY:	MAHREEN
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150MM THICK SLAB, T10 @200C/C



80 MM THK CEMENT SAND SCREED SLAB WITH R6 200C/C GRID REINFORCEMENT.

NOTE:

500 GUAGE POLYTHENE SHEET SHALL BE PROVIDED TO THE BOTTOM OF SLAB.
COMPACTED SOIL UNDERNEATH GROUND SLAB

GROUND SLAB RFMT PLAN

SCALE 1:100



PROJECT:

HOARAFUSHI
AIRPORT

TITLE:

FIRE STATION &
FIRE STAFF
ACCOMMODATION

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DRAWING NO:

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DATE:

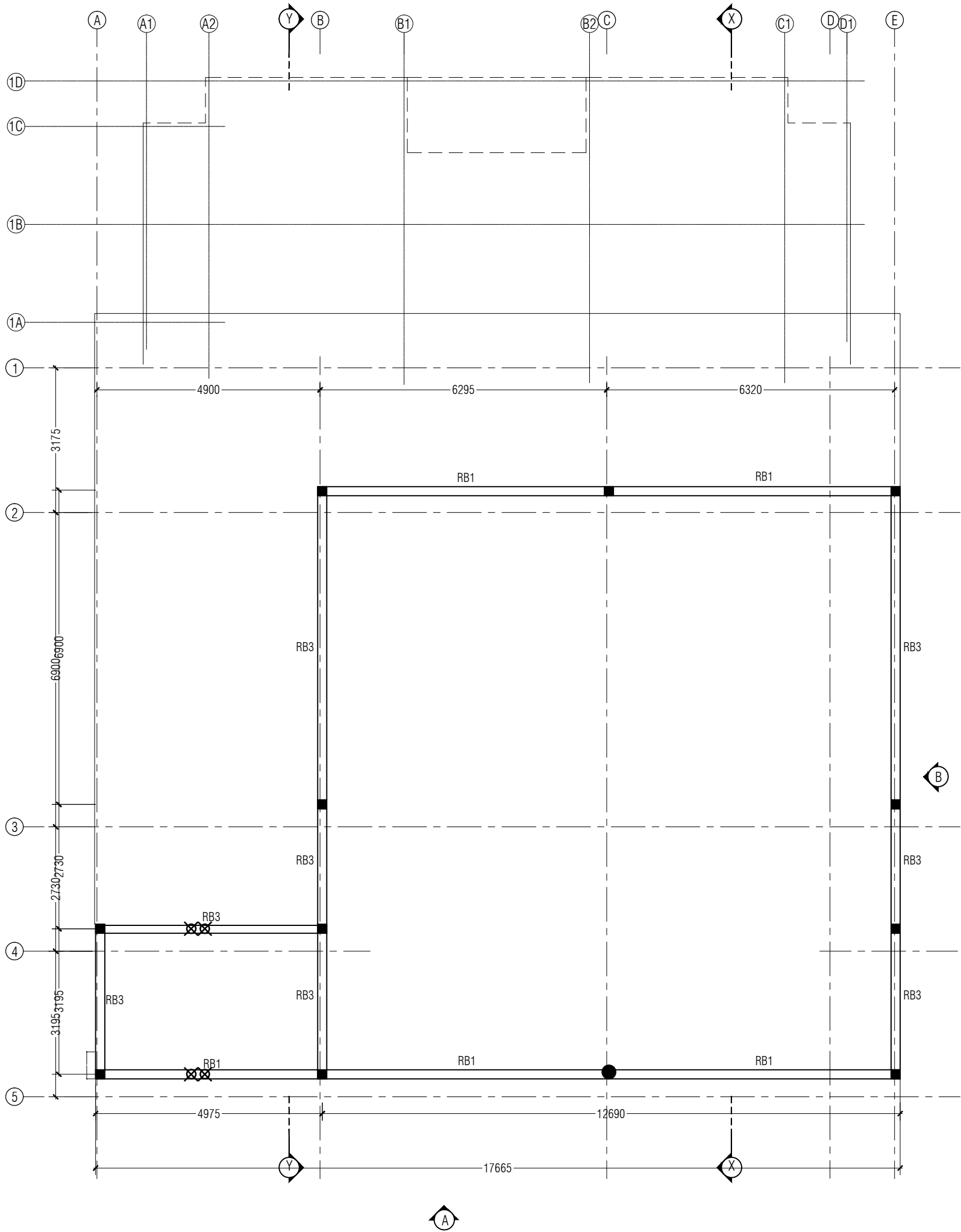
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NOTE:
ALL BEAMS ARE AT +5650 UNLESS OTHERWISE STATED

ALL CONDUITS ARE 1" Ø PVC CONDUITS

VERTICAL CONDUIT PIPE

ALL PVC PIPES SHALL BE IN CENTER OF BEAMS.
MINIMUM SPACING OF CONDUITS IN BEAMS SHALL BE 300MM.
NO CONDUITS SHALL BE INSTALLED IN COLUMNS.

UPPER ROOF BEAM PLAN

SCALE 1:200

PROJECT:

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TITLE:
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ACCOMMODATION

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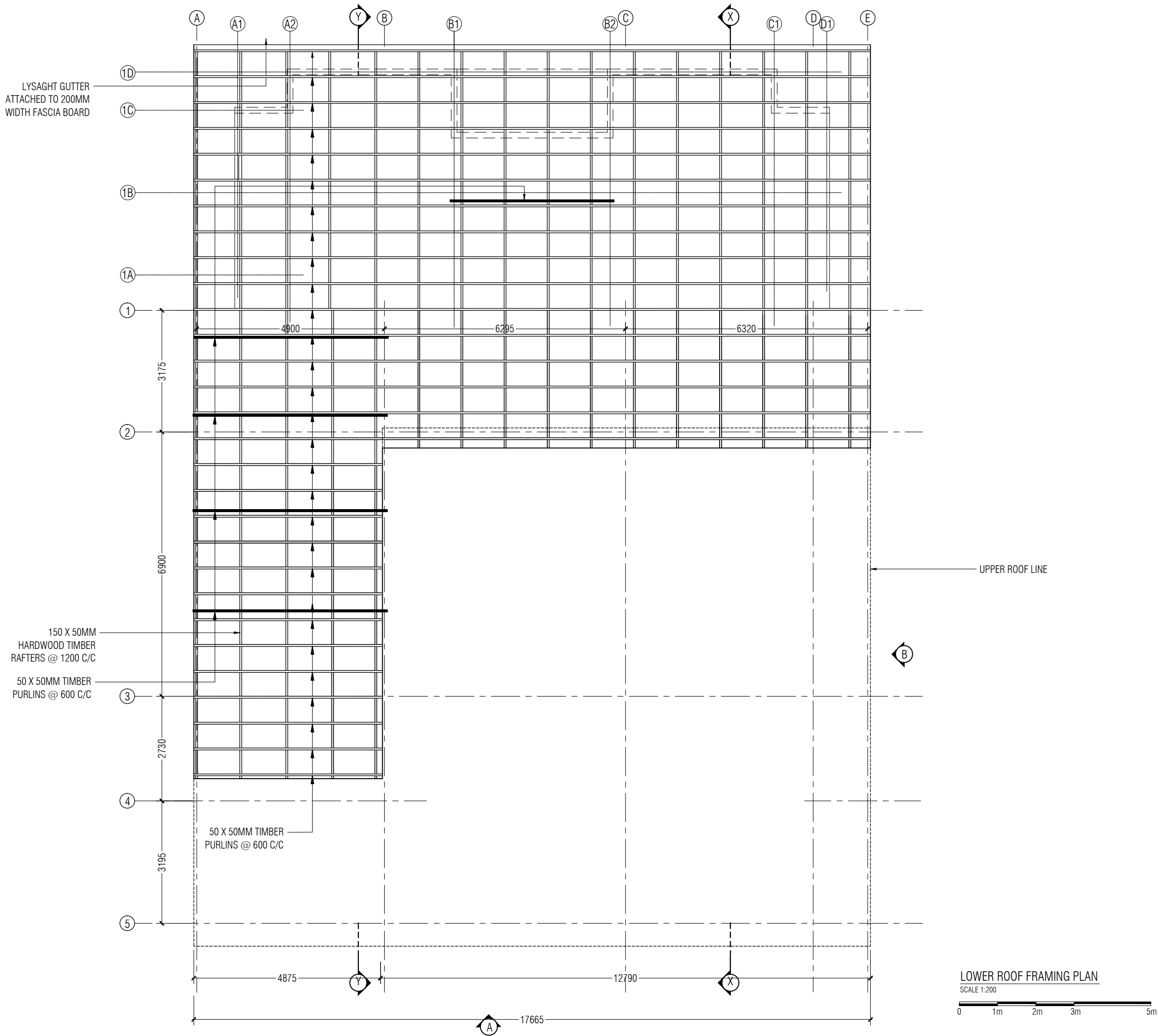
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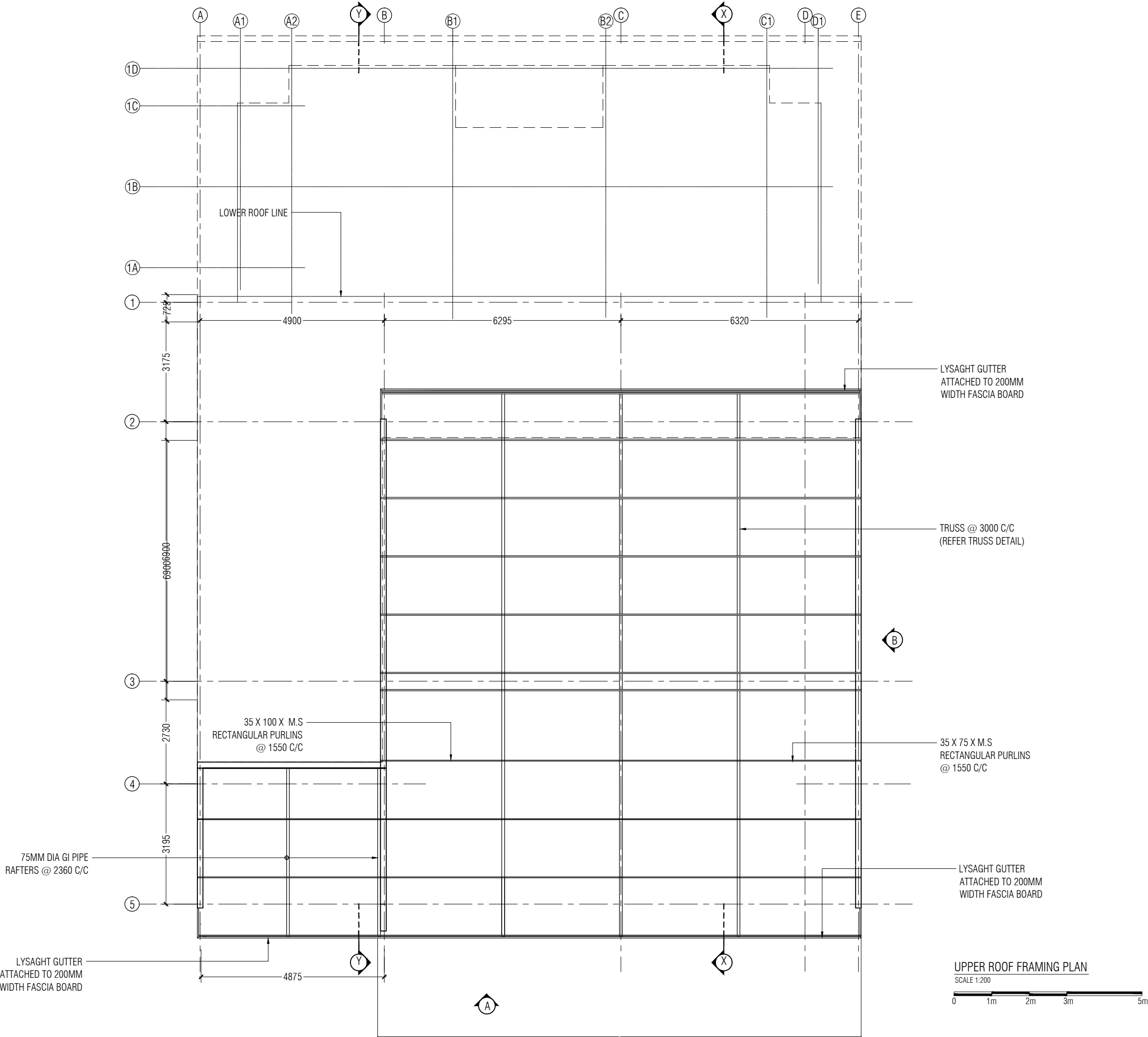
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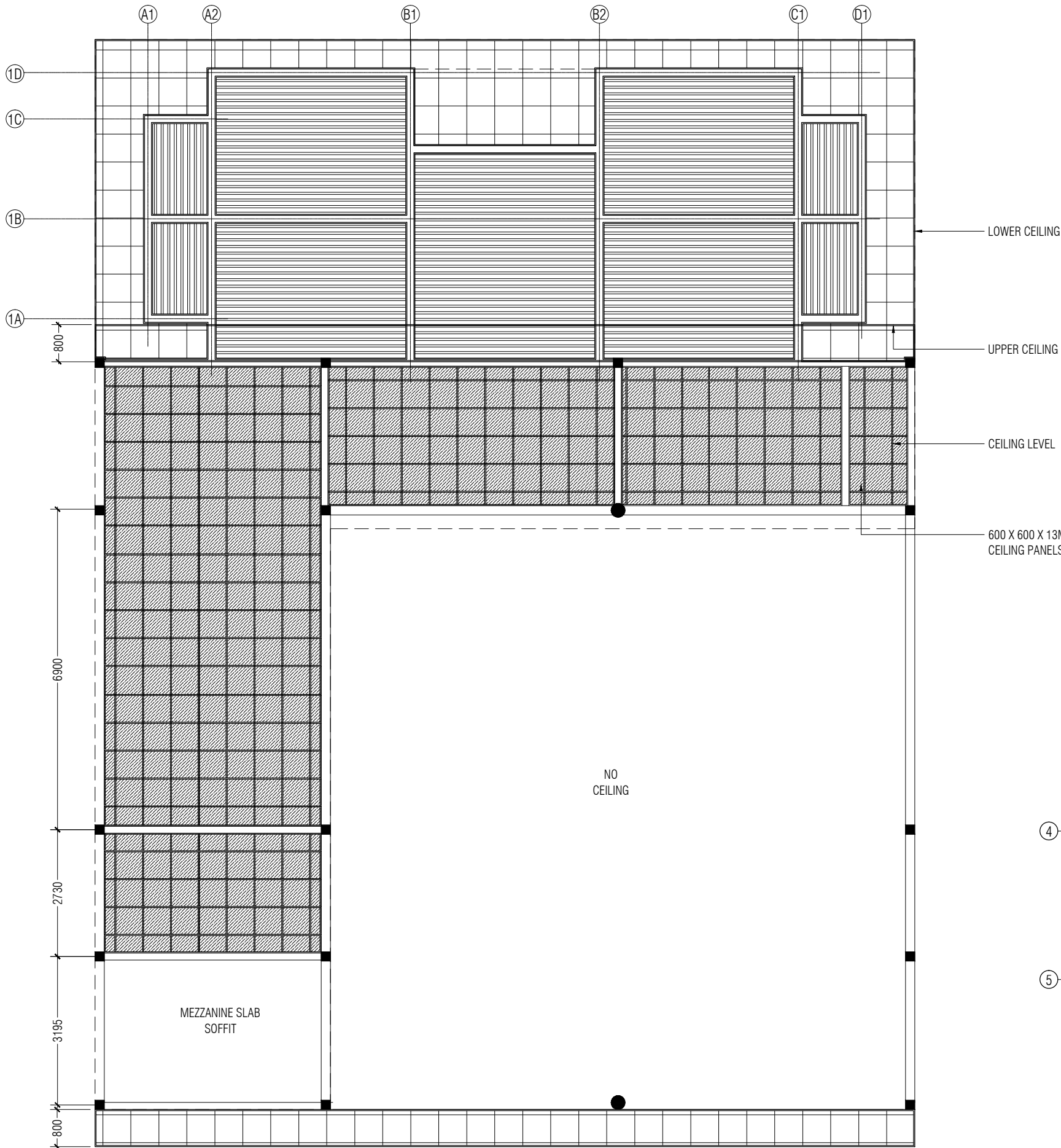


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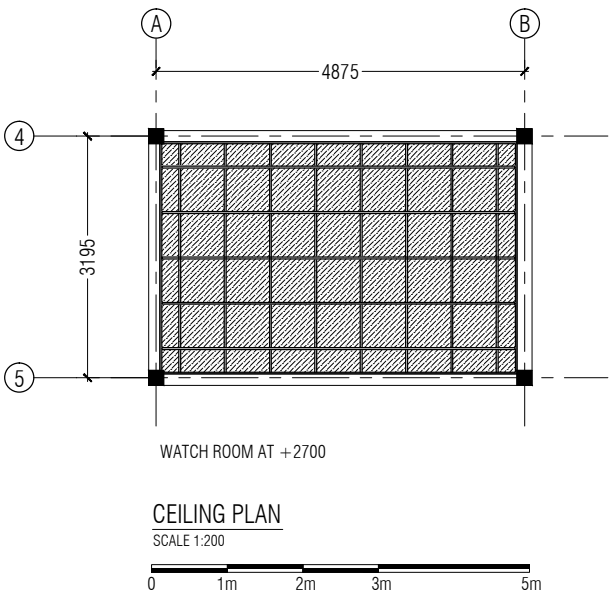
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FIRE STATION &
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ACCOMMODATION

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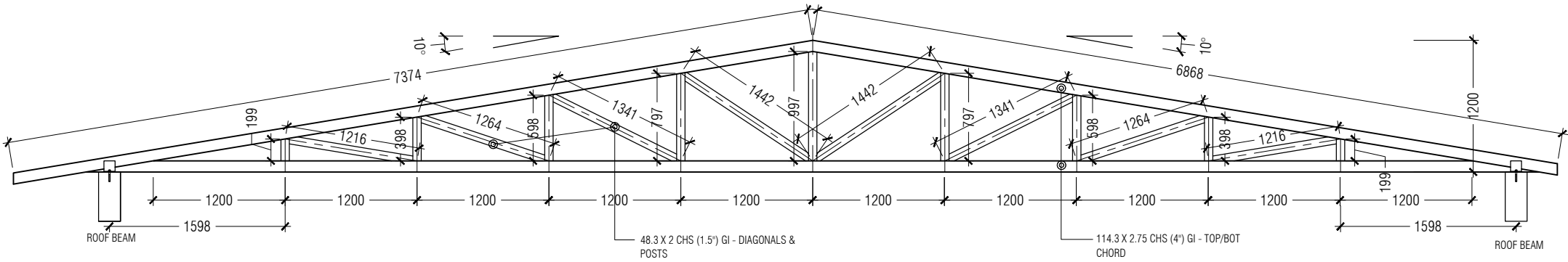
- EXTERNAL
6MM THK CEMENT BOARD CEILING. REFER CEILING DETAIL
- ROOMS & TOILETS
PVC TOUNGE AND GROOVE CELING SYSTEM AS PER
SUPPLIERS SPECIFICATION. REFER CEILING DETAIL
- EOC, BREATHING APPARATUS RM, REST AREA
PVC 600X600X13 CEILING SYSTEM AS PER
SUPPLIERS SPECIFICATION. REFER CEILING DETAIL



PROJECT: HOARAFUSHI AIRPORT	
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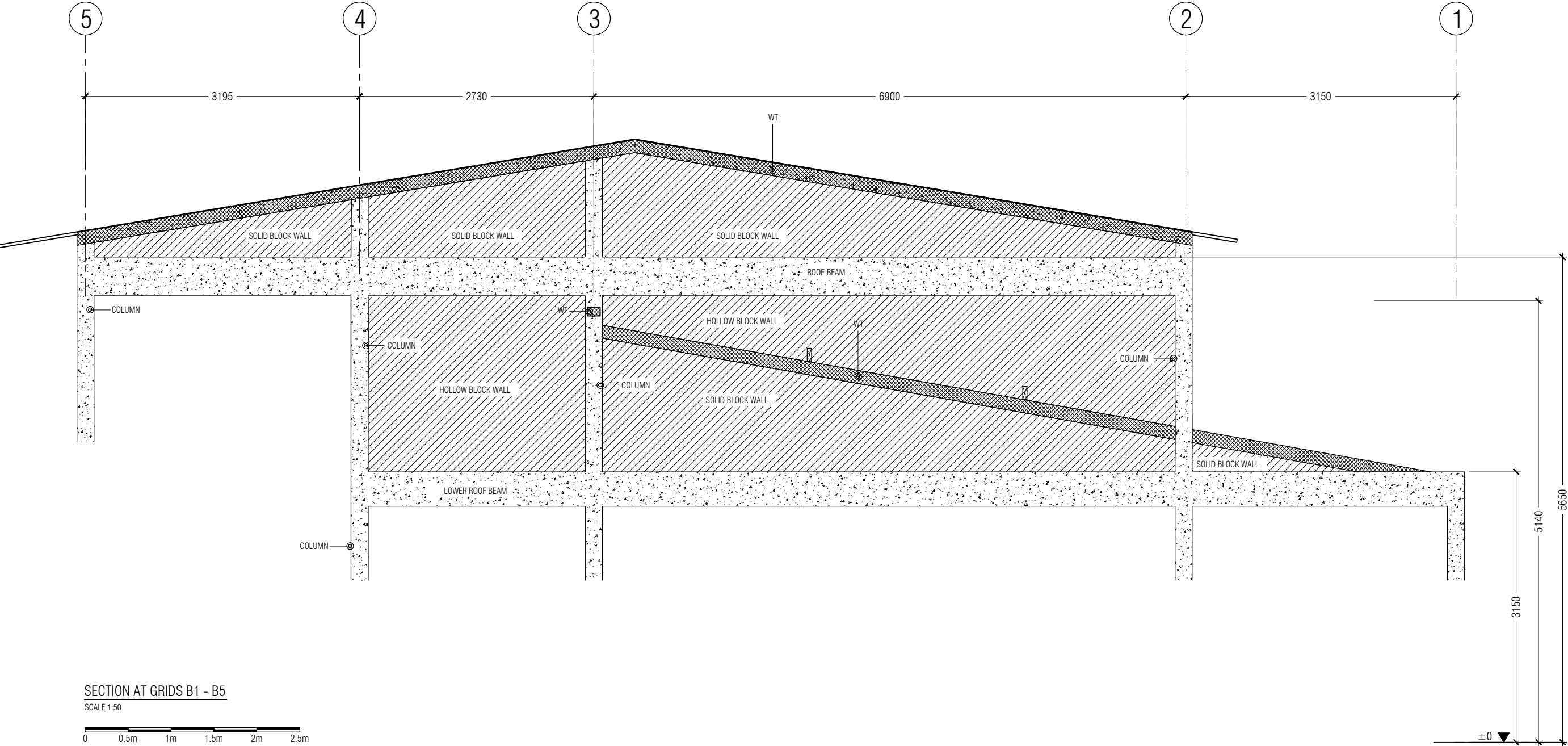


TRUSS DETAIL
SCALE 1:50



NOTE:
ALL TRUSSES SHALL BE FIXED TO THE ROOF BEAM WITH 75 X 100 MM
ANGLE CLEAT & 12MM Ø (50MM LENGTH) ANCHOR BOLT FROM BOTH SIDES
OF TRUSS

ANGLE CLEAT WELDED TO TRUSS



SECTION AT GRIDS B1 - B5
SCALE 1:50



PROJECT:

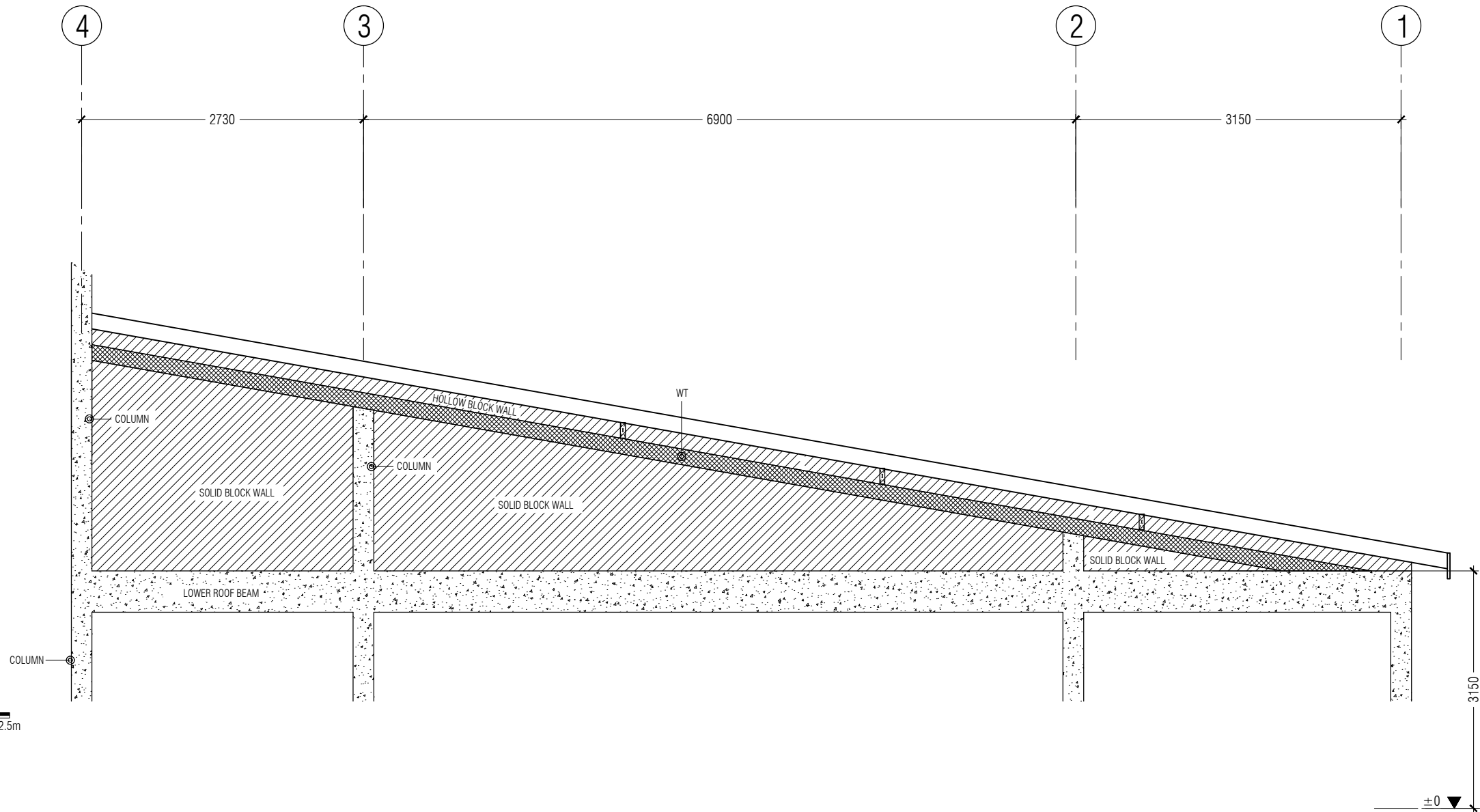
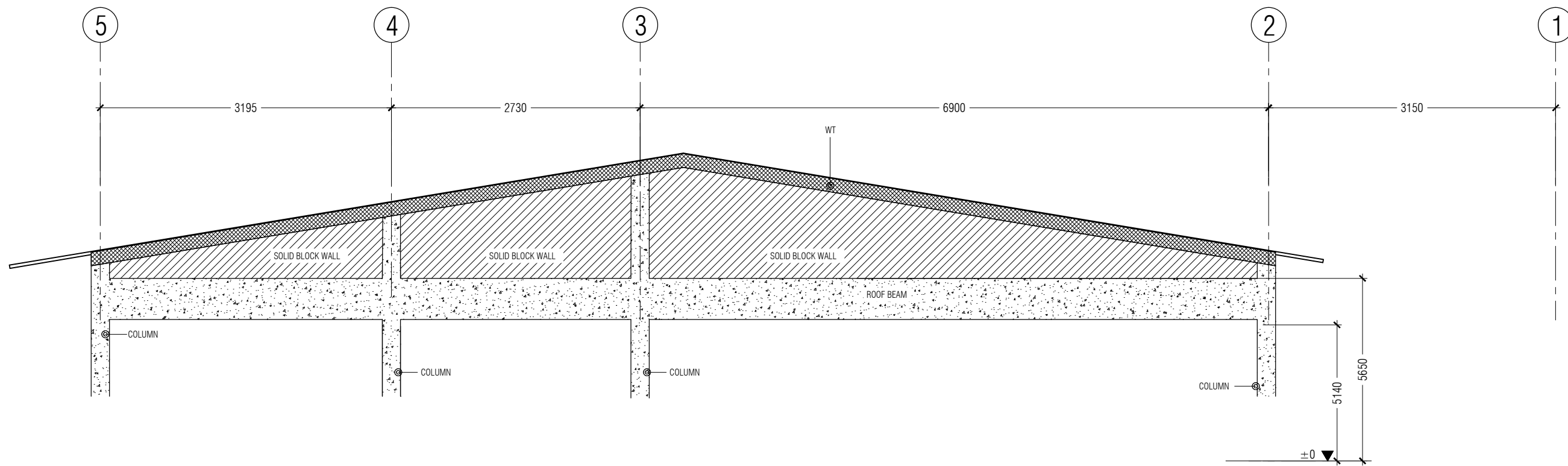
HOARAFUSHI
AIRPORT

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PROJECT:

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DRAWN BY: MAHREEN

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GENERAL NOTES

- ALL STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND SERVICE DRAWINGS, SPECIFICATIONS AND WRITTEN INSTRUCTIONS IF ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED FOR DECISION BEFORE PROCEEDING WITH THE WORK.
- THE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF-SITE SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS COMMENCED.
- WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE RELEVANT RECENT BS CODES (BS 8000) OR OTHER ACCEPTABLE STANDARDS.
- THE REINFORCED CONCRETE DESIGN IS BASED ON BS 8110 - STRUCTURAL USE OF CONCRETE
- ALL FOUNDATIONS HAS BEEN DESIGNED FOR SAFE GROUND PRESSURE OF 75 KN/m2

CONCRETE

- ALL INSITU STRUCTURAL CONCRETE SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 25 N/mm2 TO THE RELEVANT CLAUSES OF BS5328.
 - ALL PLAIN CONCRETE (OR BLINDING) SHALL HAVE MINIMUM 28 DAYS CUBE STRENGTH OF 15 N/mm2 (EQUIVALENT CYLINDER STRENGTH, $f_c = 12 \text{ N/mm}^2$), TO THE RELEVANT CLAUSES OF BS538.
- SULPHATE RESISTING CEMENT SHALL BE USED FOR ALL CONCRETE IN CONTACT WITH SALT WATER.
- NO OPENINGS, HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE IN THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL
- CONSTRUCTION AND EXPANSION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED.
- NO ELECTRICAL CONDUIT AND PIPES ARE TO BE CAST IN COLUMNS OR THROUGH BEAMS WITHOUT PRIOR APPROVAL UNLESS OTHERWISE SHOWN IN THE DRAWINGS
- BITUMINOUS WATERPROOFING PAINT SHALL BE APPLIED TO ALL CONCRETE SURFACES BELOW GROUND AND 300MM ABOVE GROUND
- SHEAR KEY SHALL BE PROVIDED AT ALL CONSTRUCTION JOINTS.
- BELOW ALL FOUNDATION FOOTINGS & BEAMS 500 GAUGE POLYTHENE MEMBRANE SHALL BE PROVIDED. BELOW THE POLYTHENE MEMBRANE 50mm THICK LEAN CONCRETE SHALL BE PROVIDED.
- ALL CONCRETE NEAR OR AROUND SPLASH ZONE SHOULD USE CORROSION INHIBITING ADMIXTURE AS ACCEPTED.
- ALL EXPOSED CONCRETE SURFACES IN WATER SHOULD BE APPLIED WITH EPOXY BASED PROTECTION COATINGS AS ACCEPTED.

REINFORCEMENT

- REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO BS-4449 WITH MINIMUM YIELD STRENGTH $F_y=460\text{N/mm}^2$ DENOTED AS (T) AND UNDEFORMED BARS MILD STEEL BARS WITH MINIMUM YIELD STRENGTH OF $F_y=250\text{N/mm}^2$ DENOTED AS (R). WELDED WIRE MESH SHALL COMPLY WITH-4483.
- WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED. IF REINFORCEMENT SHOULD BE WELDED, APPROVAL IS REQUIRED.
- ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS, OR SUPPORT BARS.
- TYPICAL DEVELOPMENT AND SPLICES OF DEFORMED BARS WITH $F_y = 460 \text{ N/mm}^2$ AND $F_c = 25 \text{ N/mm}^2$, (CUBE STRENGTH) SHALL BE AS FOLLOWS, UNLESS OTHERWISE MENTIONED IN DRAWINGS:
 - BASIC TENSION DEVELOPMENT LENGTH, $L_d = 45\phi$
 - FOR HORIZONTAL REINFORCEMENTS (MEMBER THICKNESS LESS THAN 300mm) TENSION DEVELOPMENT LENGTH OR SPLICE, $L_d = 60\phi$.
 - FOR HORIZONTAL REINFORCEMENTS (MEMBER THICKNESS MORE THAN 300mm) TENSION DEVELOPMENT LENGTH OR SPLICE, $L_d = 70\phi$
 - MINIMUM COMPRESSION DEVELOPMENT LENGTH, $L_{dc} = 30\phi$ (OR 300mm WHICHEVER IS MORE).
- CONCRETE COVER THICKNESS
 - STRUCTURAL MEMBERS BELOW GROUND WITH WATERPROOFING MEMBRANE = 50MM
 - STRUCTURAL MEMBERS BELOW GROUND IN CONTACT WITH SEA LEVEL OR SOIL = 75MM
 - COLUMNS= 35-40MM
 - SLAB BOTTOM= 30-35MM
 - BEAMS= 35-40MM


PROJECT:

HOARAFUSHI
AIRPORT

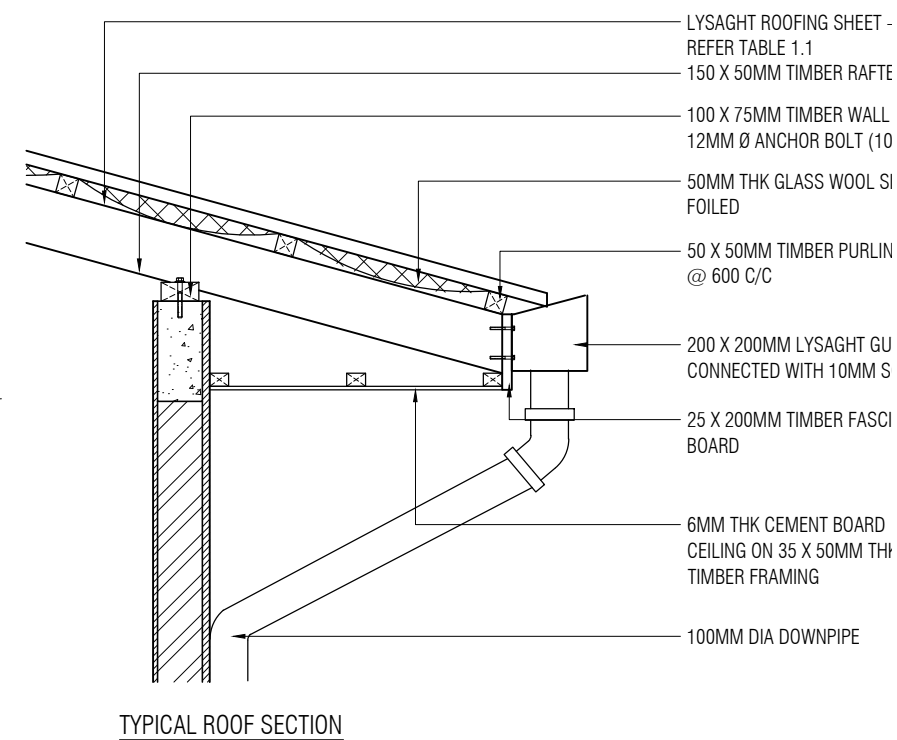
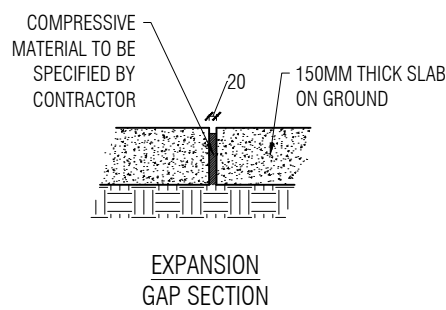
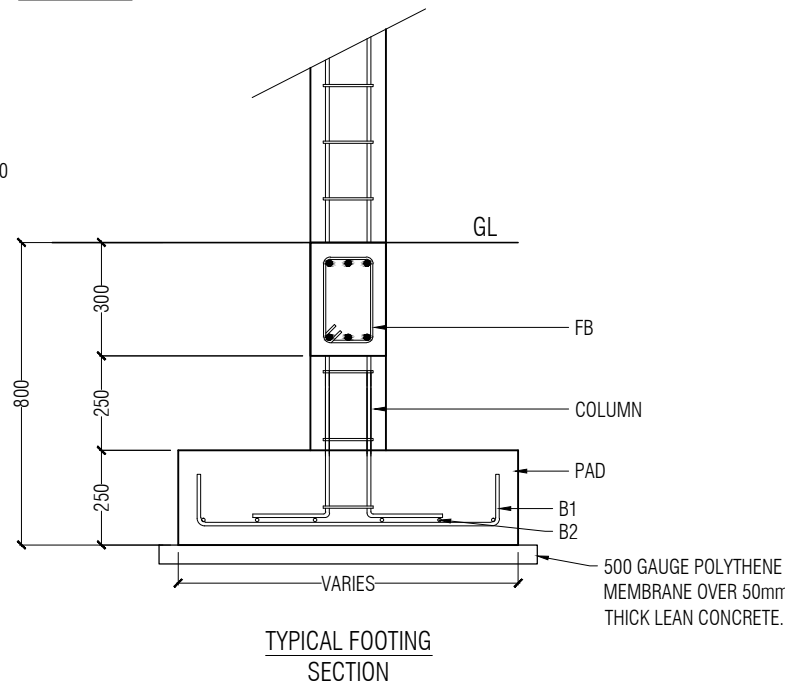
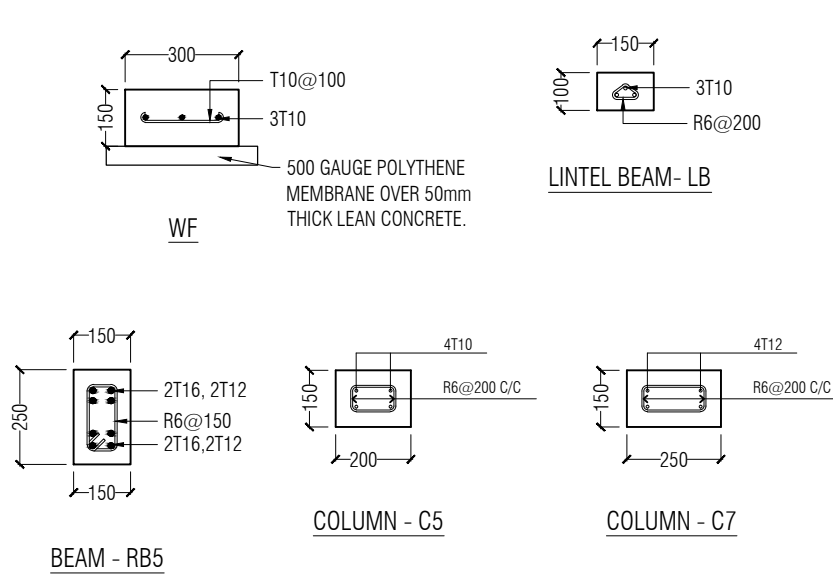
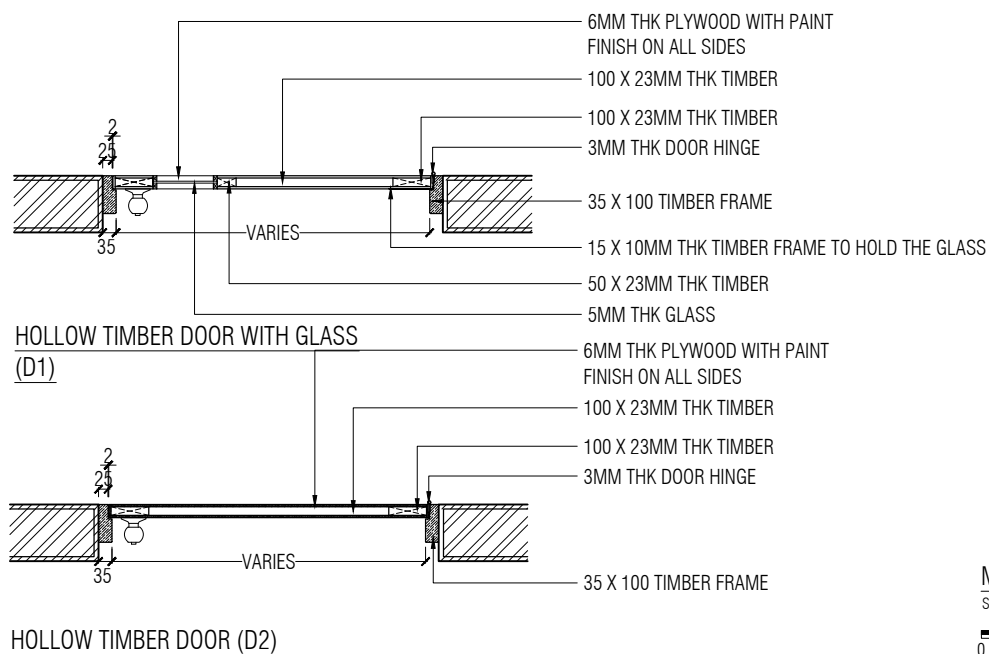
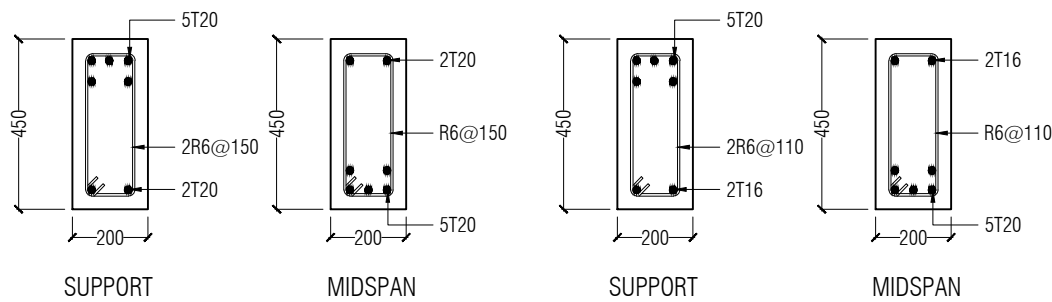
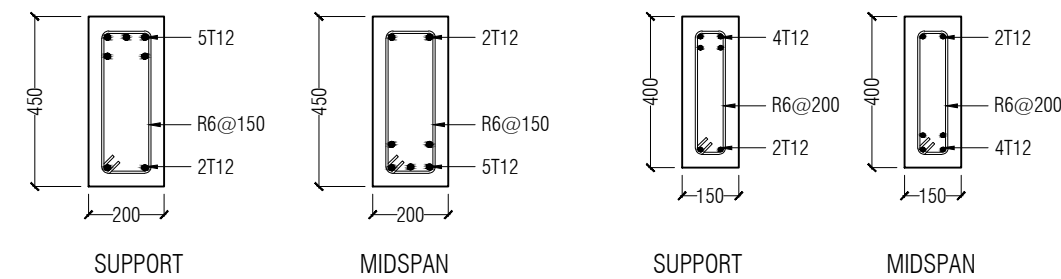
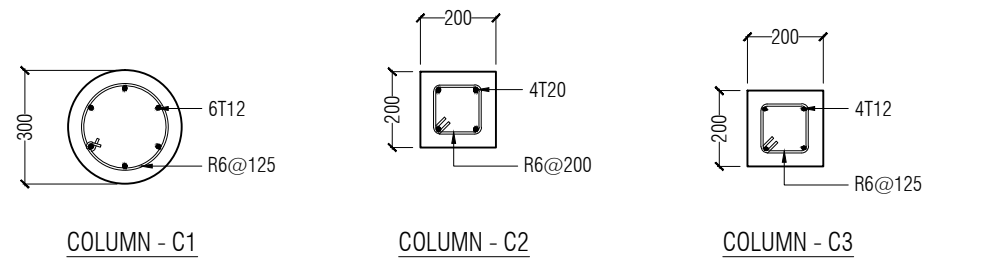
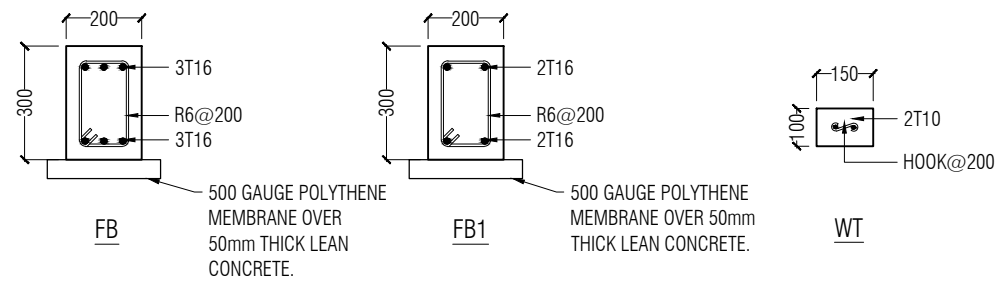
TITLE:

FIRE STATION &
FIRE STAFF
ACCOMMODATION

DRAWN BY:	MAHREEN
DESIGN BY:	MAHREEN
DRAWING NO:	HOA/FS/18/19
SCALE:	AS SHOWN
DATE:	SEPT 2019
CHECKED BY:	MAHREEN

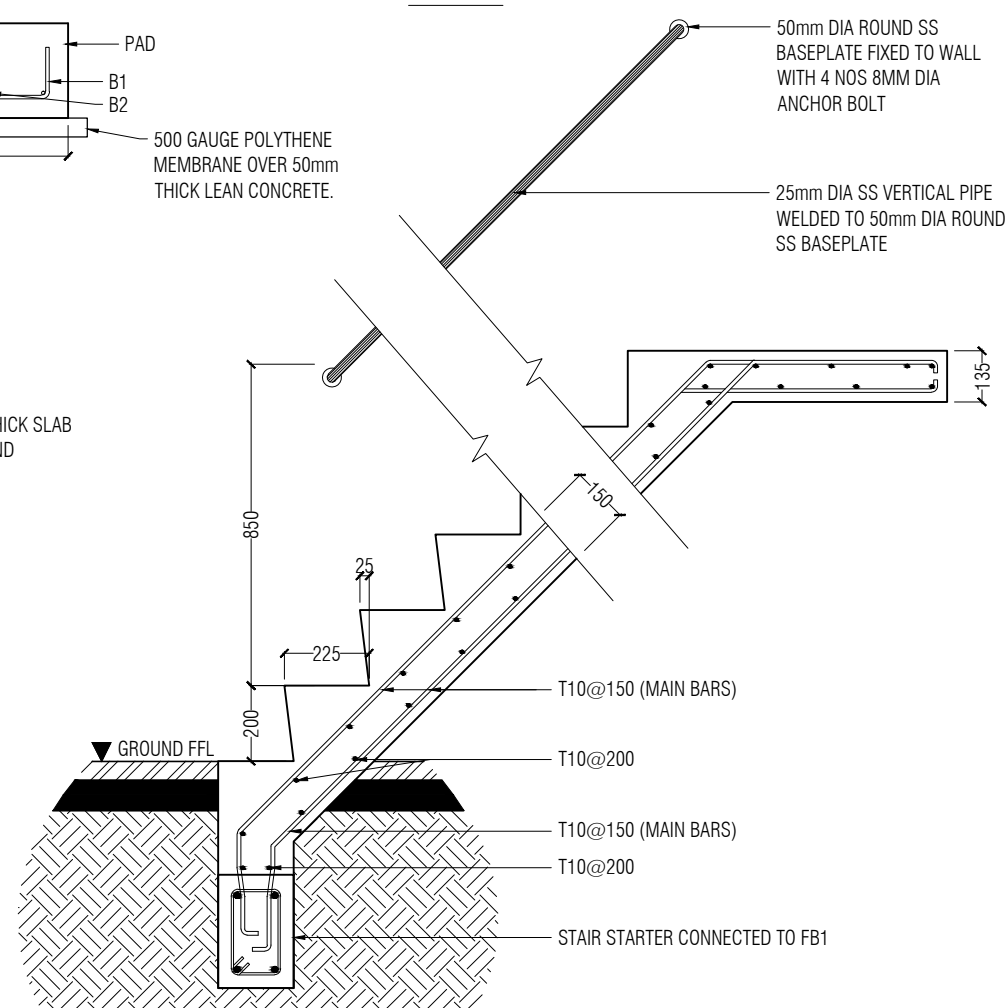


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IRIMDEK®	0.42	436	762	29	2 (1 in 30)
	0.48	4.9	762	29	2 (1 in 30)

TABLE 1.1



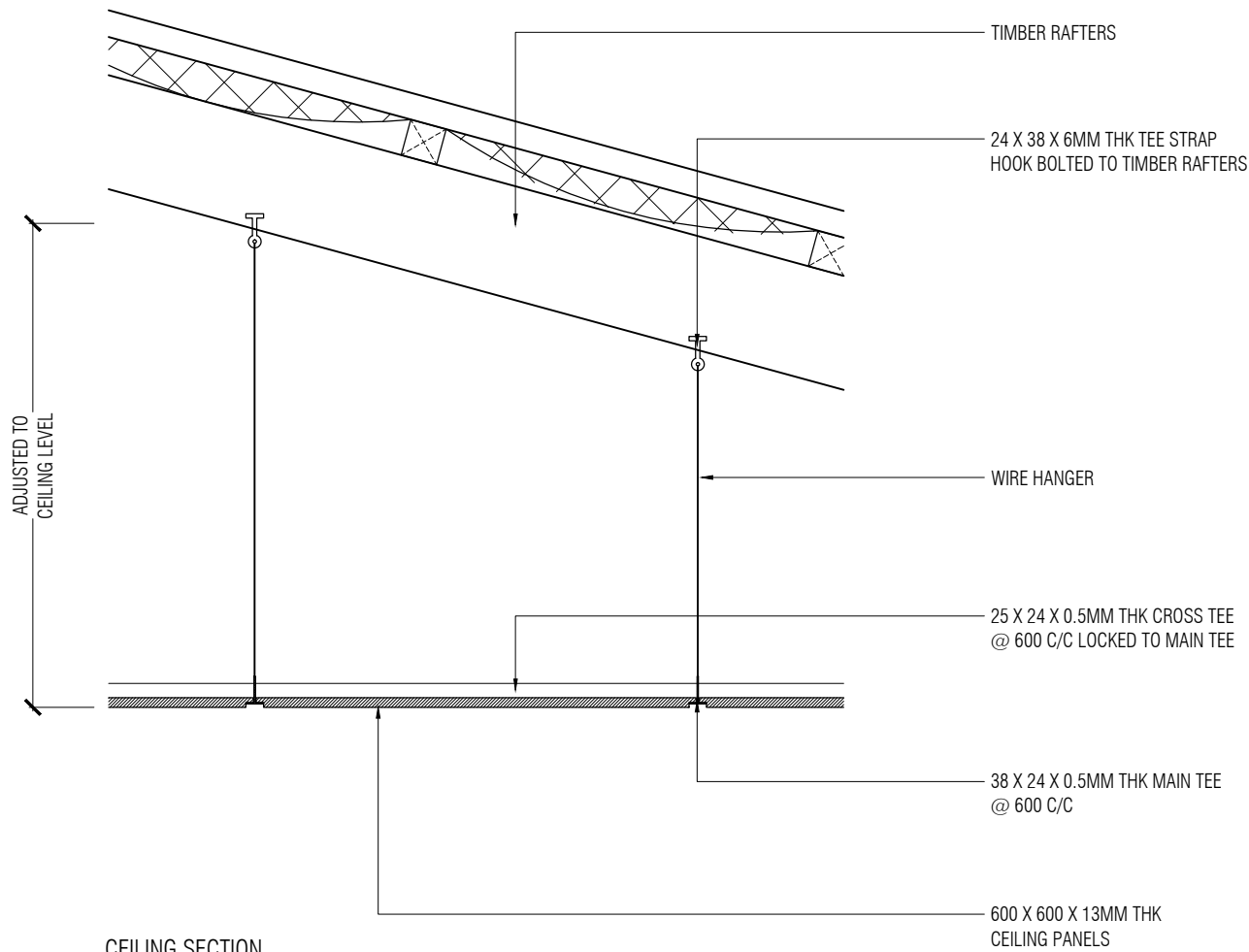
PROJECT:
HOARAFUSHI AIRPORT

TITLE:
FIRE STATION & FIRE STAFF ACCOMMODATION

DRAWN BY: MAHREEN
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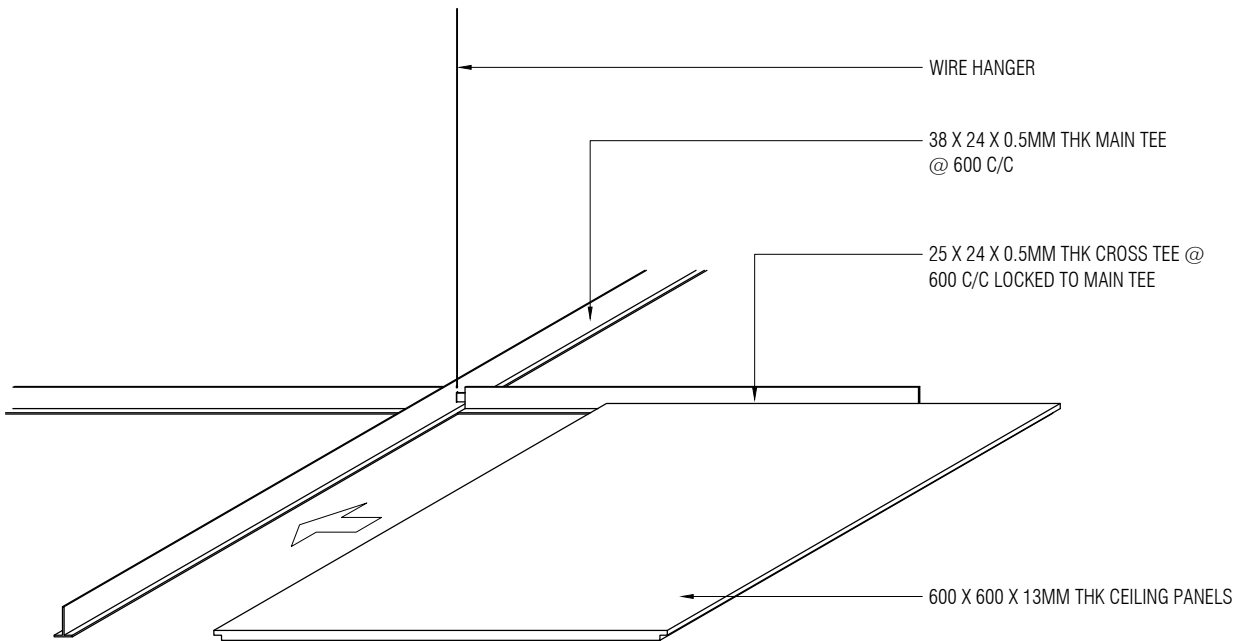
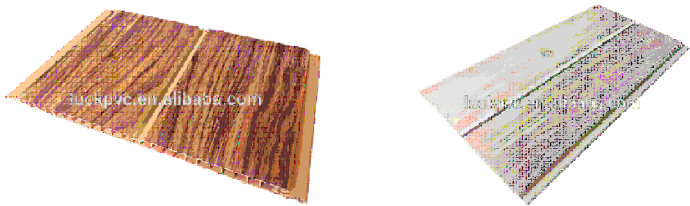
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CEILING SECTION

ALTERNATIVE CEILING SYSTEM OPTION IS ALSO ACCEPTABLE:

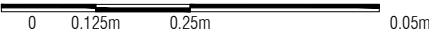
PVC TOUNGE AND GROOVE CELING SYSTEM AS PER SUPPLIERS SPECIFICATION.



CEILING AXONOMETRIC VIEW

CEILING DETAILS

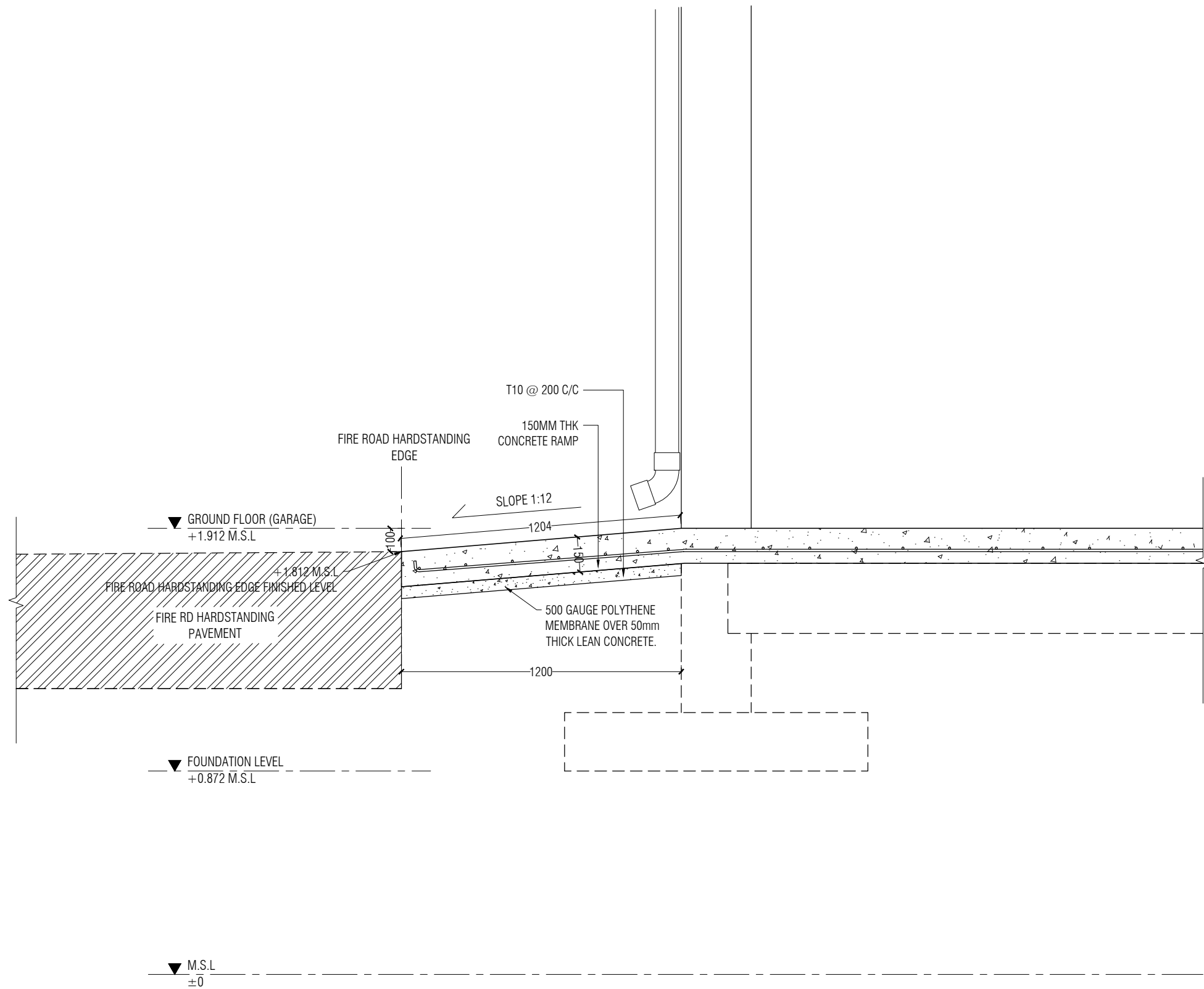
SCALE 1:10



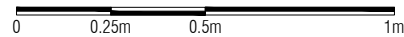
PROJECT: HOARAFUSHI AIRPORT	
TITLE: FIRE STATION & FIRE STAFF ACCOMMODATION	
DRAWN BY:	MAHREEN
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SCALE:	AS SHOWN
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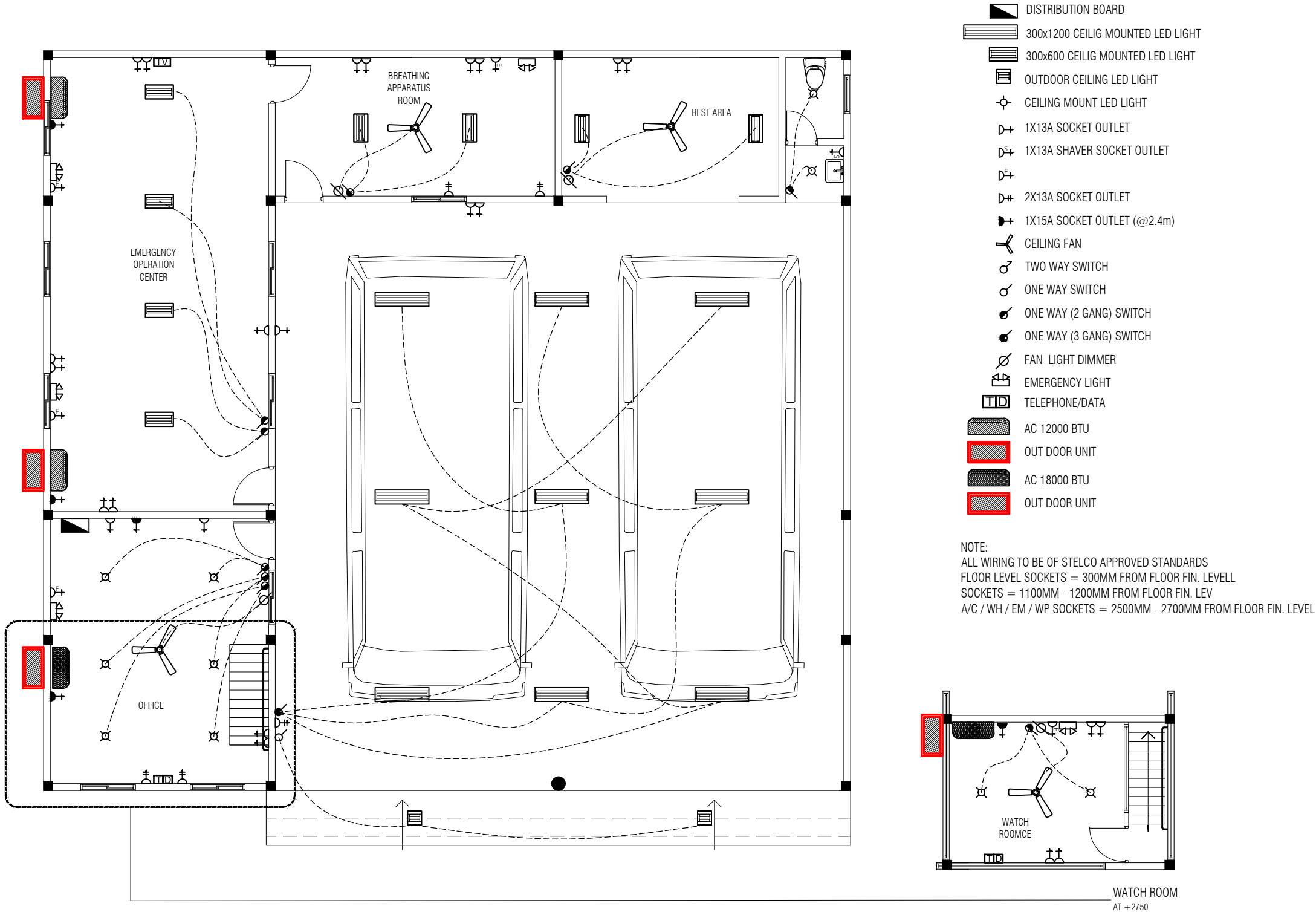
RC RAMP DETAILS
SCALE 1:20



PROJECT: HOARAFUSHI AIRPORT	
TITLE: FIRE STATION & FIRE STAFF ACCOMMODATION	
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ELECTRICAL LAYOUT

SCALE 1:200



PROJECT:

HOARAFUSHI
AIRPORT

TITLE:

FIRE STATION &
FIRE STAFF
ACCOMMODATION

DRAWN BY:

MAHREEN

DESIGN BY:

MAHREEN

DRAWING NO:

HOA/FS/22/19

SCALE:

AS SHOWN

DATE:

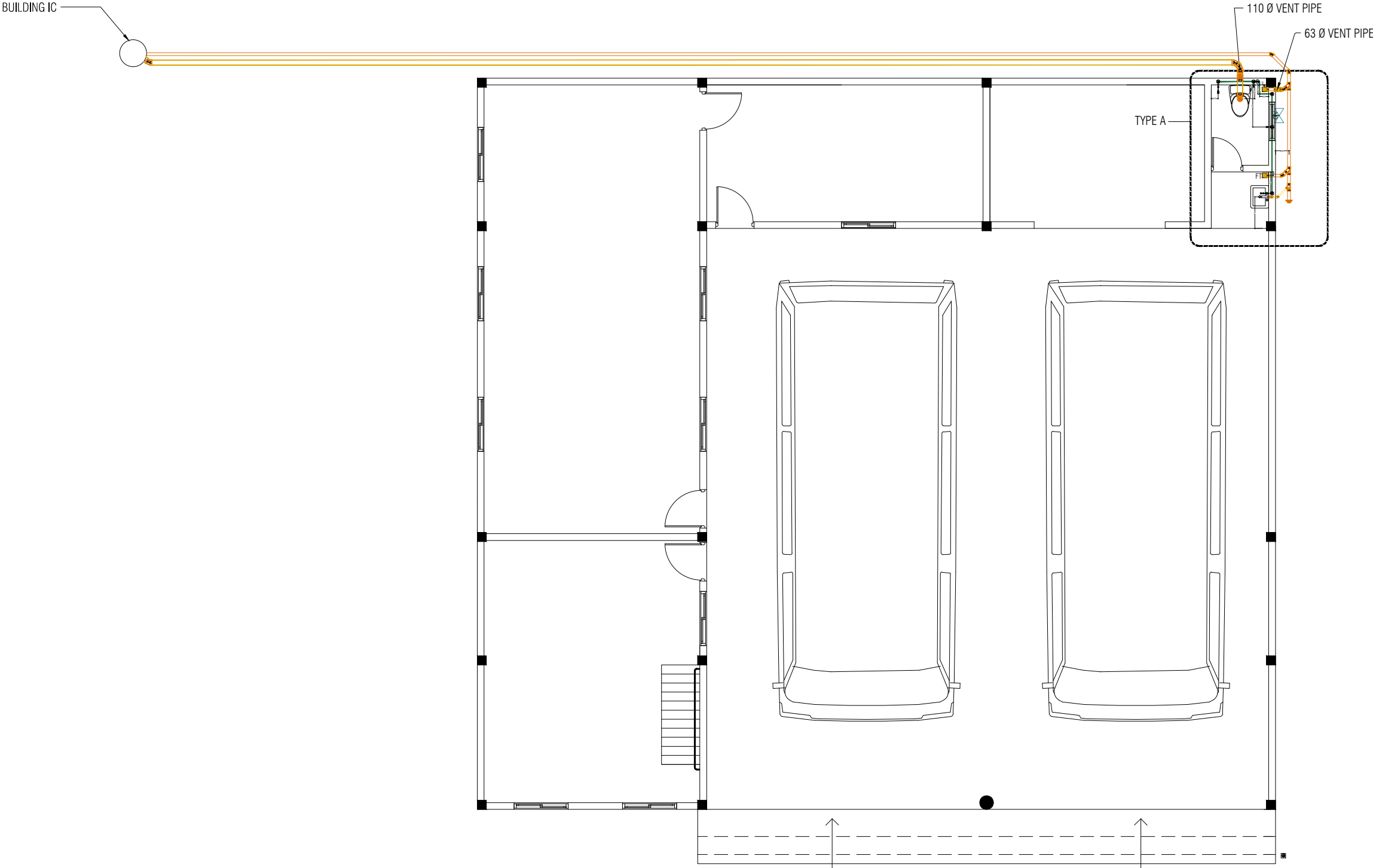
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GROUND PLUMBING REFERENCE LAYOUT

SCALE 1:200



PROJECT:

HOARAFUSHI
AIRPORT

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ACCOMMODATION

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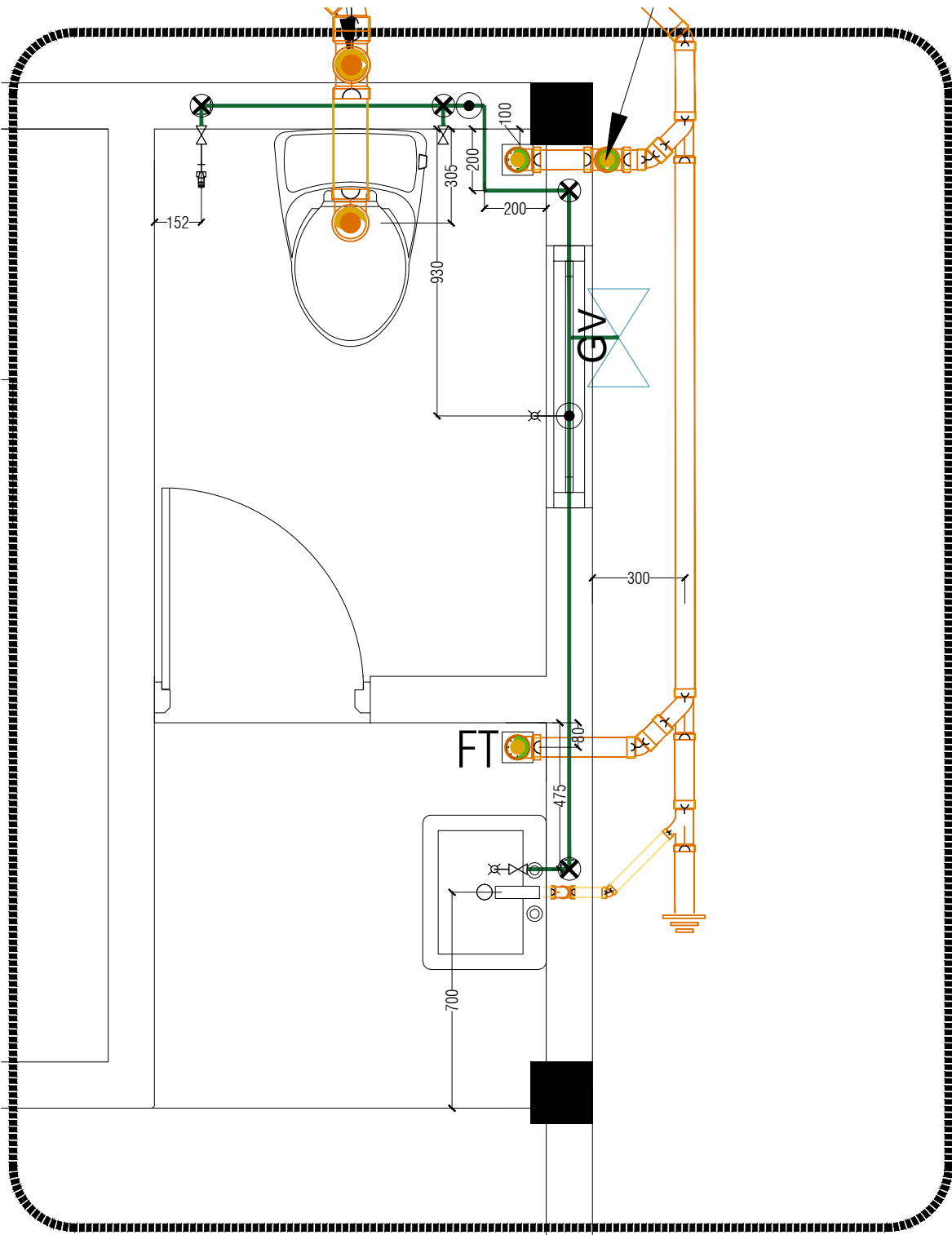
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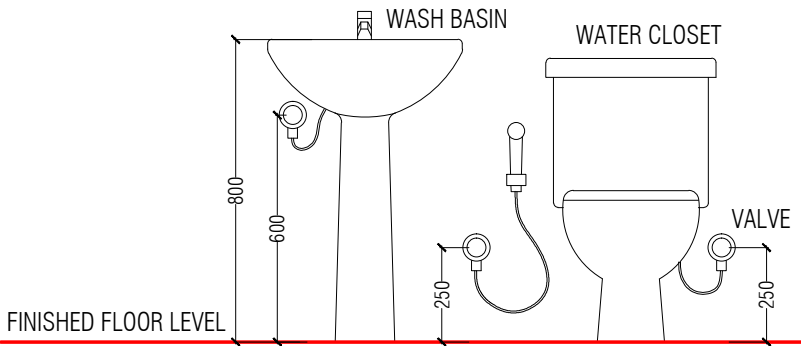
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LEGEND

- SOIL PIPE 110mm DIA
- WASTE PIPE 63mm DIA
- WASTE PIPE 32mm DIA
- RODDING EYE
- MAIN GATE VALVE
- 150 X 150 FLOOR DRAIN
- FAUCET / TAP
- SHOWER MIXER
- MUSLIM SHOWER
- STOP VALVE
- FRESH WATER SUPPLY 16mm DIA
- RISE IN WALL
- DROP IN WALL

*NOTE:
ALL SOIL/WASTE PIPES SHALL BE UNDER FLOOR SLAB
ALL SOIL/WASTE PIPE SLOPE SHALL BE GREATER THAN OR EQUAL TO 1:150



TYPICAL TOILET LINE OF HEIGHTS

SCALE 1:20



PROJECT:
HOARAFUSHI
AIRPORT

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FIRE STAFF
ACCOMMODATION

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DESIGN BY:	MAHREEN
DRAWING NO:	HOA/FS/24/19
SCALE:	AS SHOWN
DATE:	SEPT 2019
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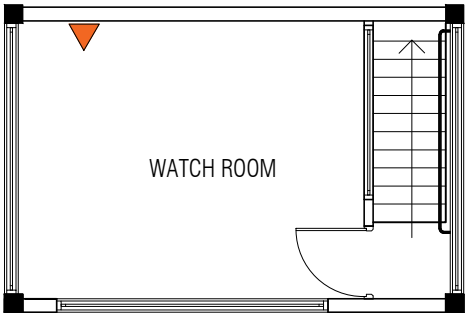


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FIRE BUILLING - IT LAYOUT

SCALE 1:75



NETWORK	Qty
Telephone Point	07
Single Data Point	04
WIFI	02

Legend

- Telephone Point
- Data Point
- WIFI

PROJECT:

HOARAFUSHI
AIRPORT

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FIRE STAFF
ACCOMMODATION

DRAWN BY: MAHREEN

DESIGN BY: MAHREEN

DRAWING NO: HOA/FS/25/19

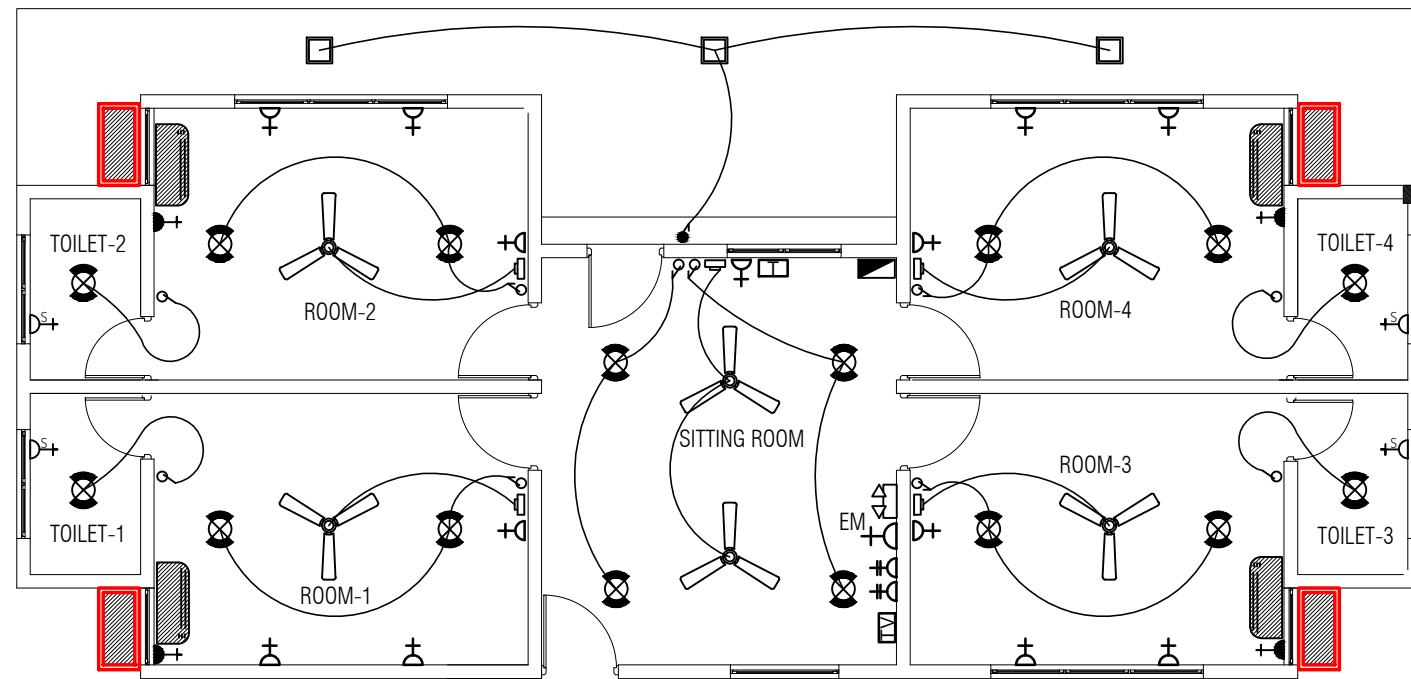
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DATE: SEPT 2019

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











FIRE ACCOMMODATION ELECTRICAL /AC LAYOUT - IT LAYOUT

SCALE 1:75



LEGENDS

-  DISTRIBUTION BOX
-  CEILING MOUNT LED LIGHT
-  OUTDOOR CEILING MOUNT LED LIGHT
-  SWITCH SINGLE GANG
-  SWITCH 2-GANG
-  SWITCH 3-GANG
-  1X15A SOCKET OUTLET (@2.4m)
-  13A SOCKET OUTLET SINGLE GANG
250MM ABOVE F.FLOOR LEVEL)
-  13A SOCKET OUTLET DOUBLE GANG
250MM ABOVE F.FLOOR LEVEL)
-  1X13A SHAVER SOCKET OUTLET
-  CEILING FAN
-  FANCONTROL (REGULATOR)
-  EMERGENCY LIGHT
-  EMERGENCY LIGHT SOCKET OUTLET +2.4m
-  TELEPHONE SOCKET
-  TV SOCKET
-  AC 12000 BTU
-  A/C OUTDOOR UNIT

NOTE:

ALL WIRING TO BE OF STELCO APPROVED STANDARDS
 FLOOR LEVEL SOCKETS = 300MM FROM FLOOR FIN. LEVELL
 SOCKETS = 1100MM - 1200MM FROM FLOOR FIN. LEV
 KITCHEN SOCKETS = 1150 - 1250MM FROM FLOOR FIN. LEVEL
 A/C / WH / EM / WP SOCKETS = 2500MM - 2700MM FROM FLOOR FIN. LEVEL

PROJECT:

**HOARAFUSHI
AIRPORT**

TITLE:

**FIRE STATION &
FIRE STAFF
ACCOMMODATION**

DRAWN BY: MAHREEN

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DRAWING NO: HOA/FS/26/19

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