



JOHN HAY MANAGEMENT CORPORATION

RENOVATION OF GATES 1, 2, and 4 to INCLUDE INSTALLATION OF INSPECTION BAY AREAS

PREPARED BY:

Arch. MARILOU C. DUCLAYAN

CHECKED BY:

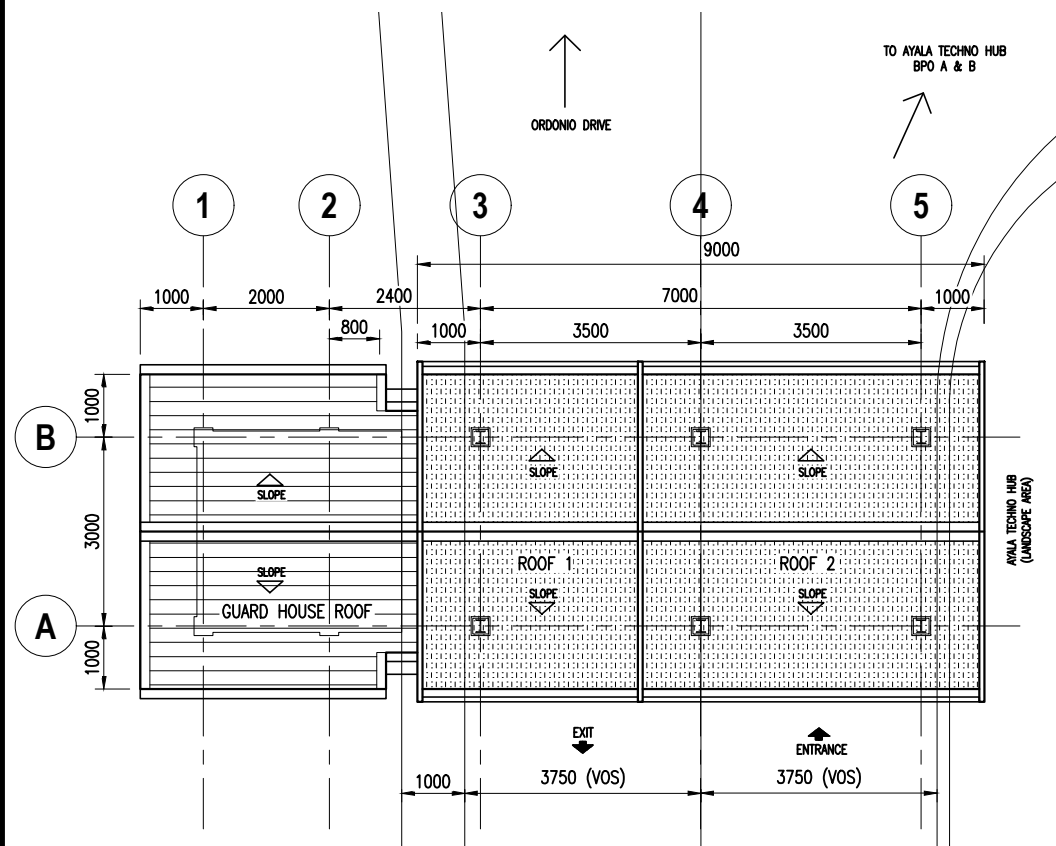
ARCH. LUZVIMINDA M. NIGOS-PANGANIBAN

RECOMMENDED BY:

ENGR. BOBBY V. AKIA

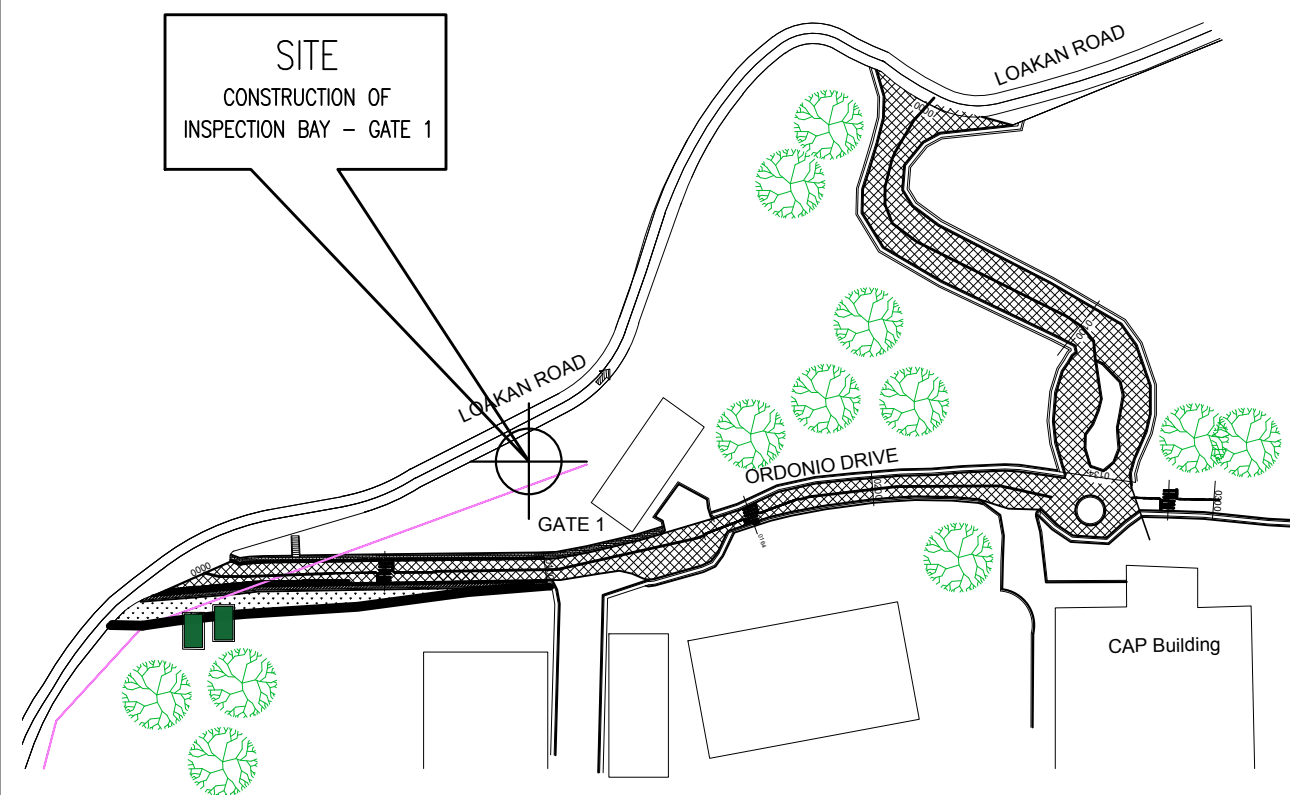
GATE 1 INSPECTION BAY PERSPECTIVE

1
A 1 SCALE



GATE 1 INSPECTION BAY
SITE DEVELOPMENT PLAN

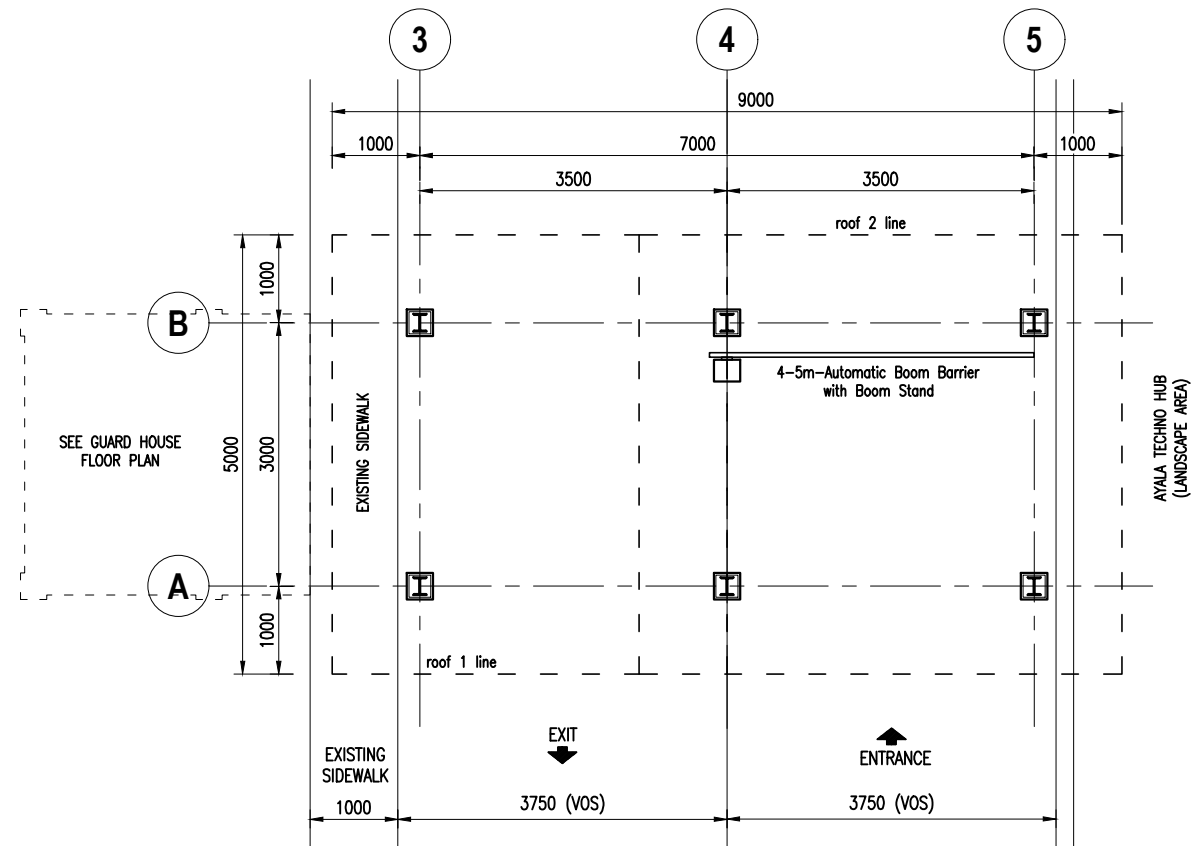
2
A 1 SCALE 1:100mts



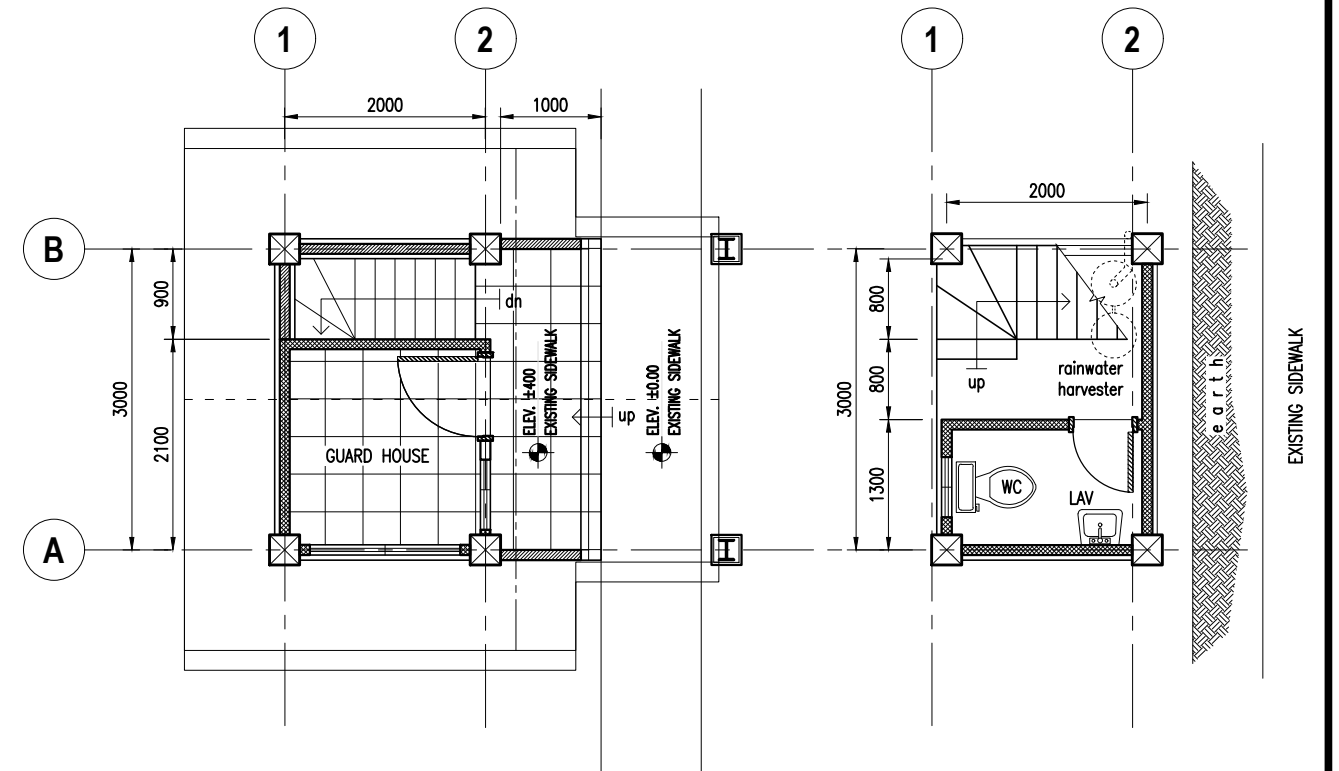
GATE 1 INSPECTION
VICINITY MAP

3
A 1 SCALE NTS

Republic of the Philippines Office of the President JHMC JOHN HAY MANAGEMENT CORPORATION a member of The BCDA Group	
SHEET CONTENT:	
PROJECT TITLE: RENOVATION OF GATES 1, 2, and 4 to INCLUDE INSTALLATION OF INSPECTION BAY AREAS	
LOCATION OF PROJECT: JOHN HAY SPECIAL ECONOMIC ZONE, CAMP JOHN HAY	
RECOMMENDED BY: ENGR. BOBBY V. AKIA	
CHECKED & APPROVED BY: ARCH. LUZVIMINDA M. NIGOS-PANGANIBAN	
DRAFTED BY: ARCH. MARILOU C. DUCLAYAN	A1
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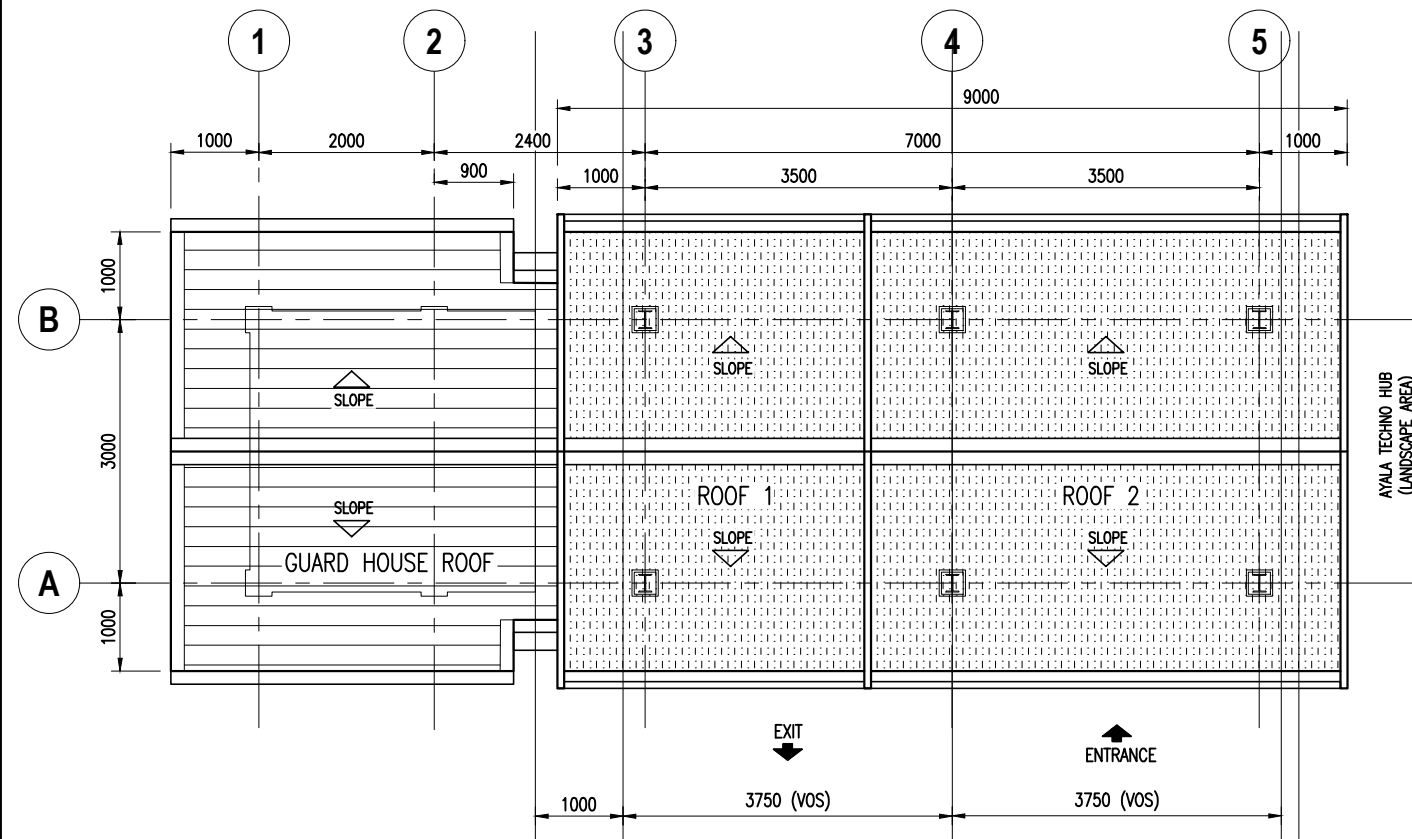


1 GATE 1 INSPECTION BAY PLAN
SCALE 1:80mts

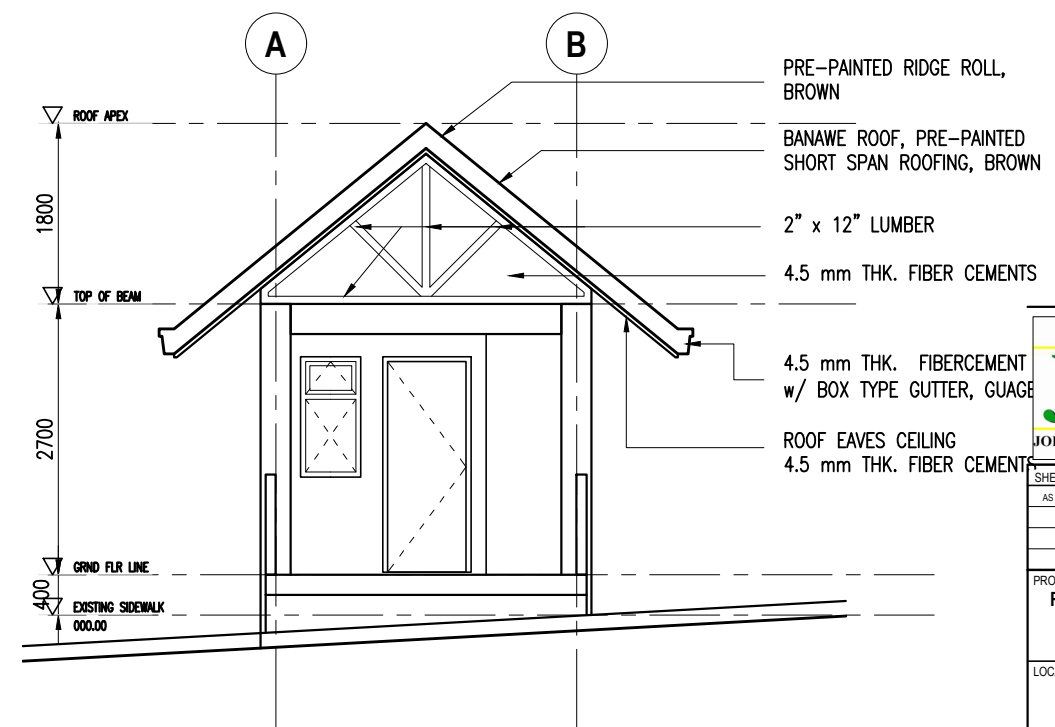


3 GUARD HOUSE GROUND FLOOR PLAN
SCALE 1:70mts

4 GUARD HOUSE LOWER GRND FLR PLAN
SCALE 1:70mts

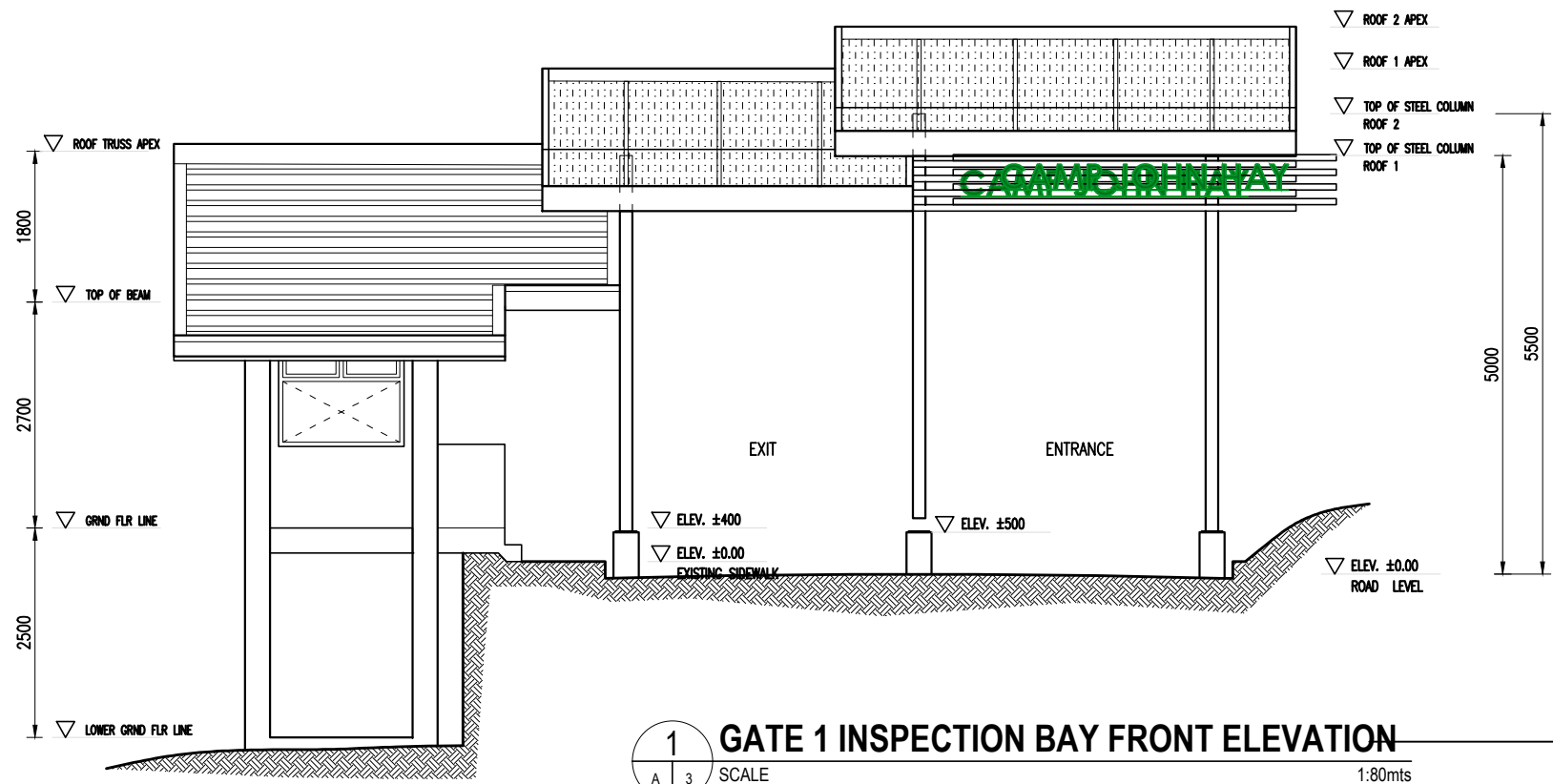


2 GATE 1 INSPECTION BAY ROOF PLAN
SCALE 1:80mts

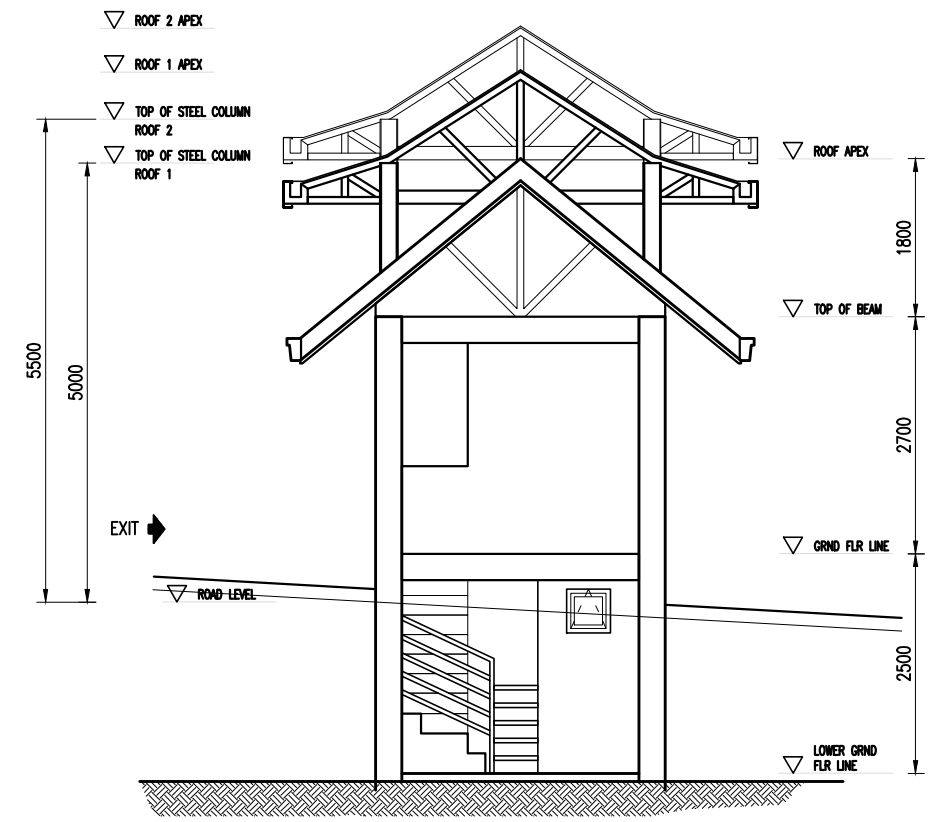


5 GUARD HOUSE FRONT ELEVATION
SCALE 1:70mts

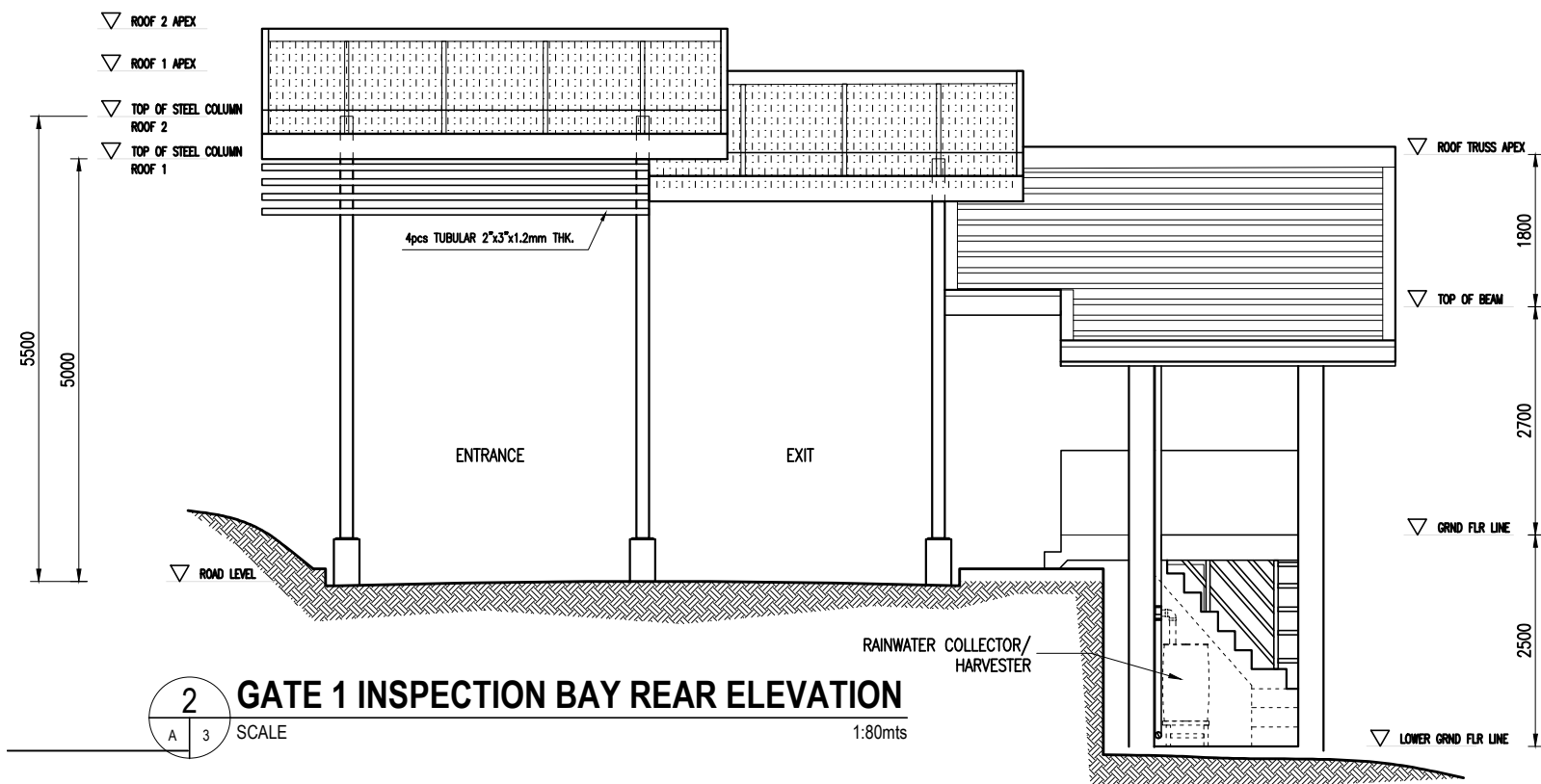
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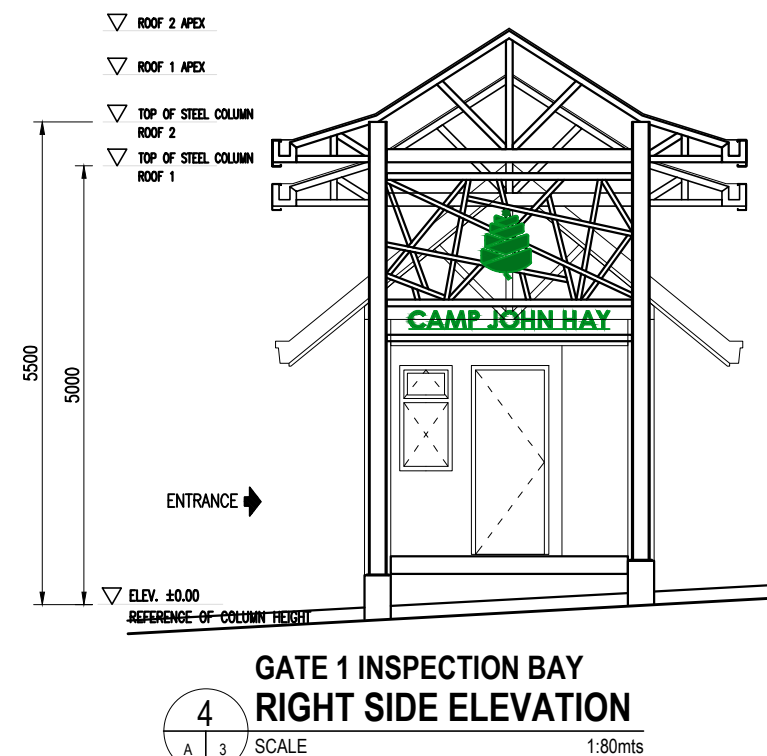
1 GATE 1 INSPECTION BAY FRONT ELEVATION
SCALE 1:80mts



3 GATE 1 INSPECTION BAY LEFT SIDE ELEVATION
SCALE 1:80mts

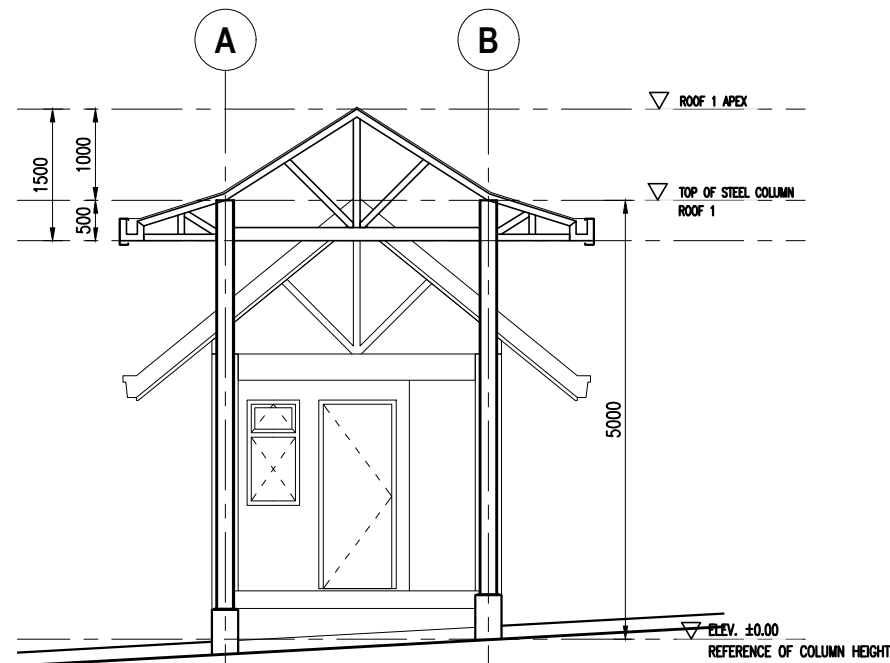


2 GATE 1 INSPECTION BAY REAR ELEVATION
SCALE 1:80mts

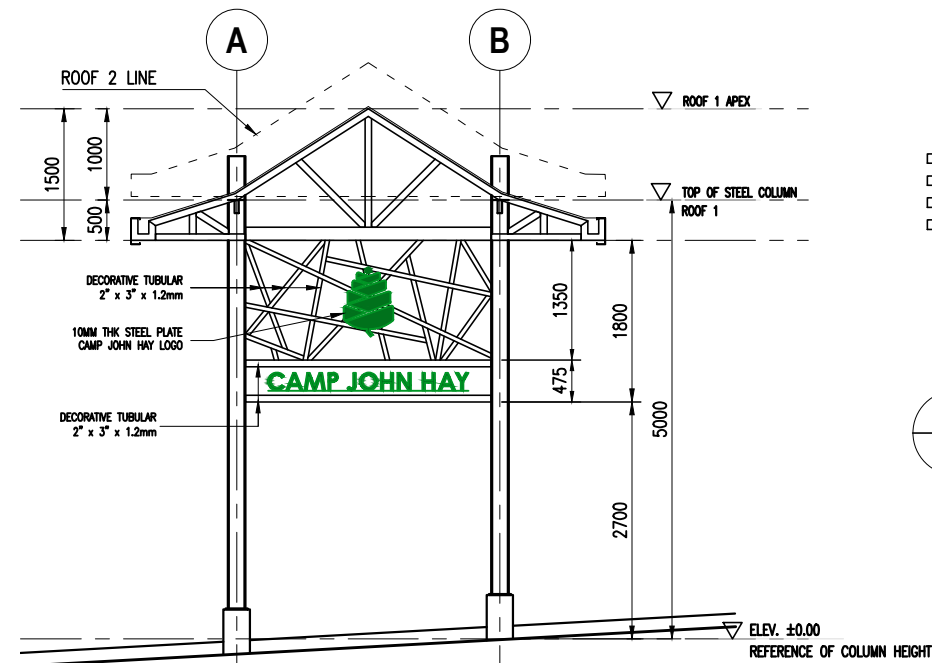


4 GATE 1 INSPECTION BAY RIGHT SIDE ELEVATION
SCALE 1:80mts

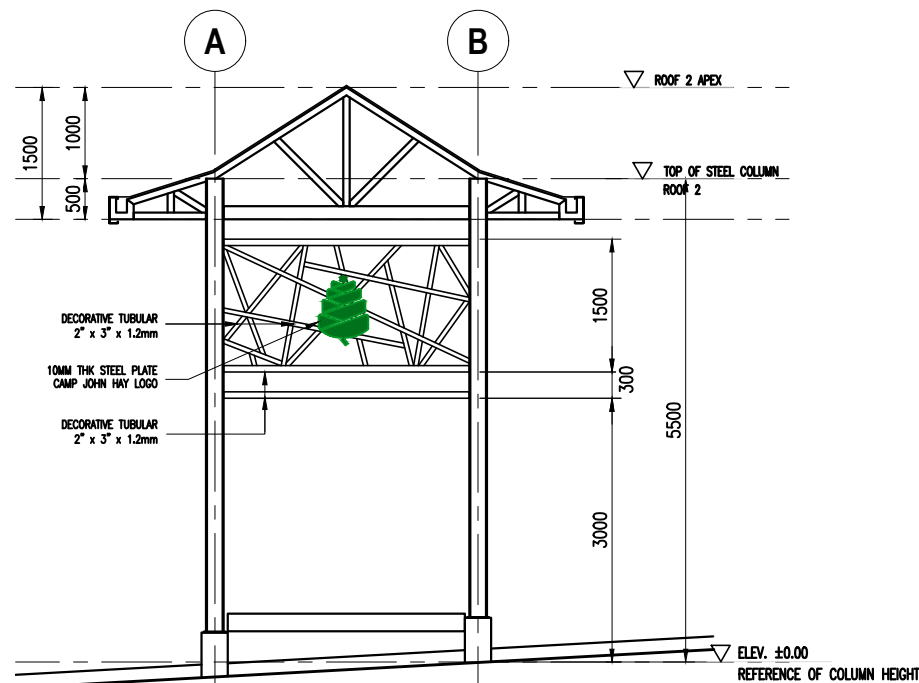
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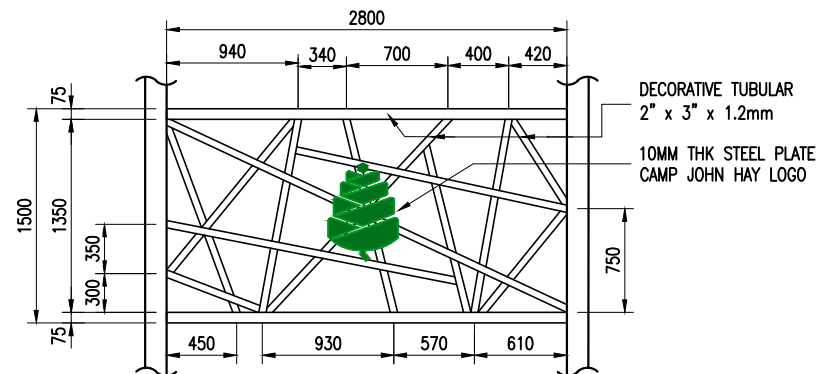
**GATE 1 INSPECTION BAY
SECTION AT GRID '3'**
SCALE 1:80mts



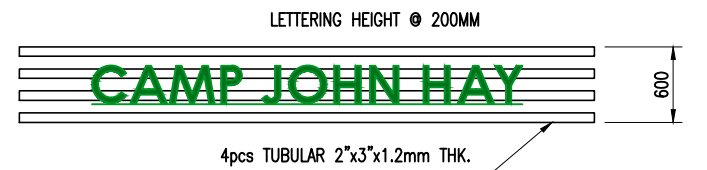
**GATE 1 INSPECTION BAY
SECTION AT GRID '4'**
SCALE 1:80mts



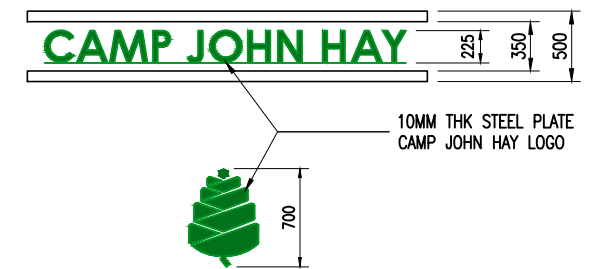
**GATE 1 INSPECTION BAY
SECTION AT GRID '4'**
SCALE 1:80mts



4 DECORATIVE STEEL DETAILS
SCALE 1:50mts



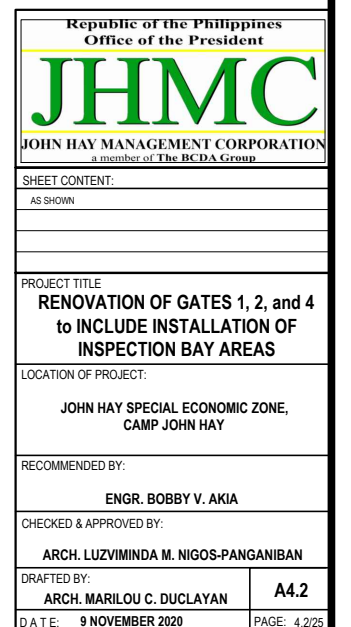
**GATE 1 INSPECTION BAY
CAMP JOHN HAY LOGO AT ENTRANCE**
SCALE NTS

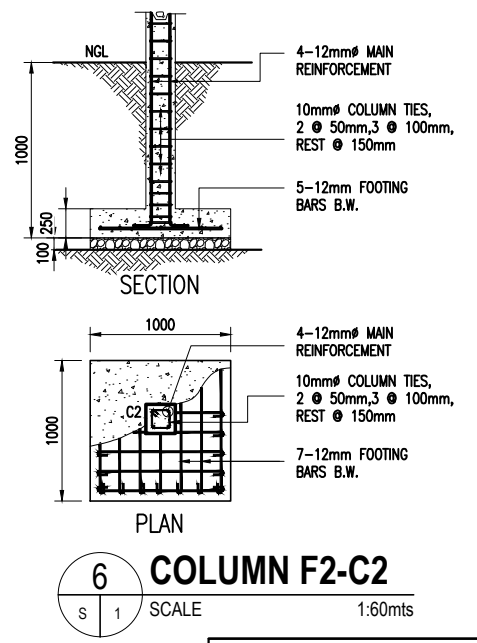
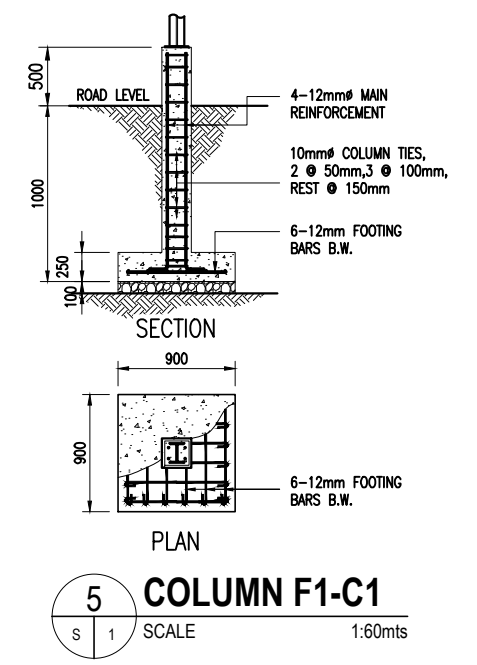
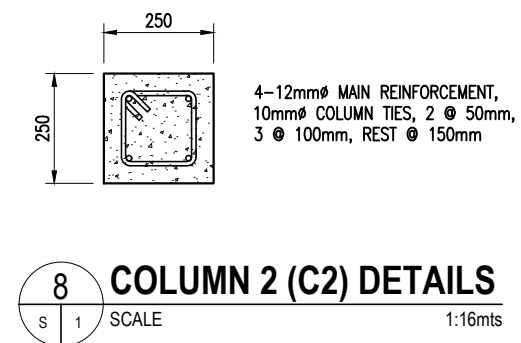
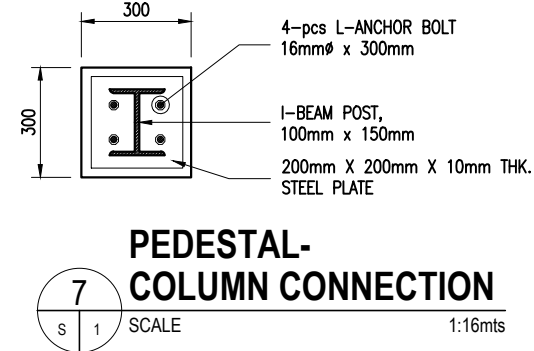
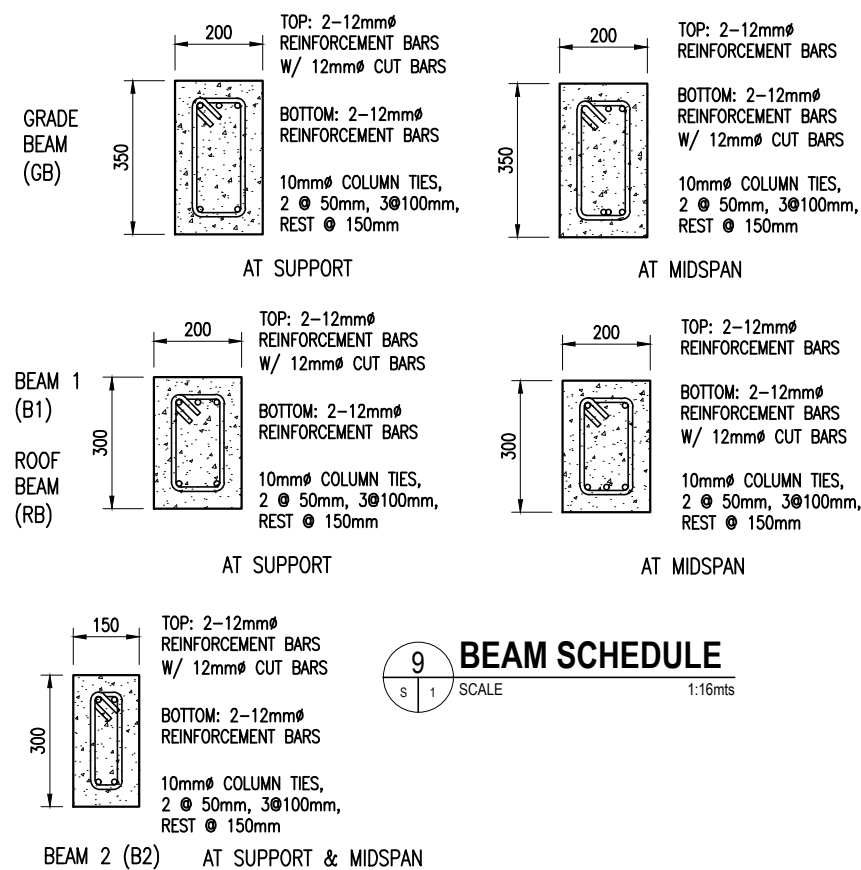
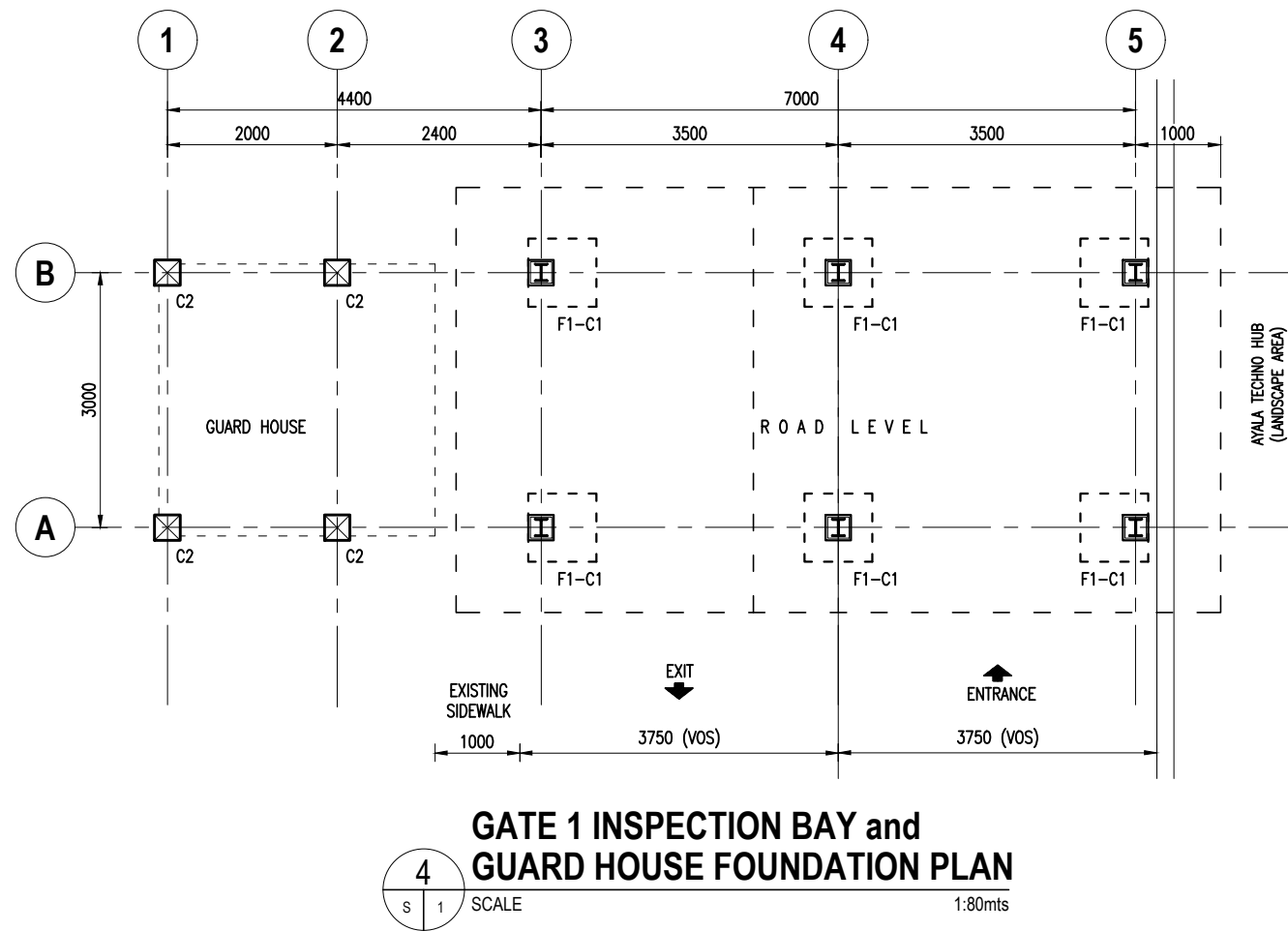
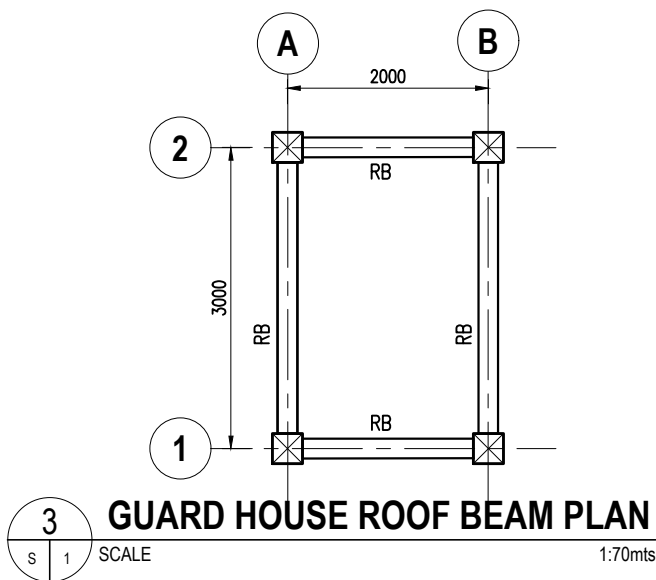
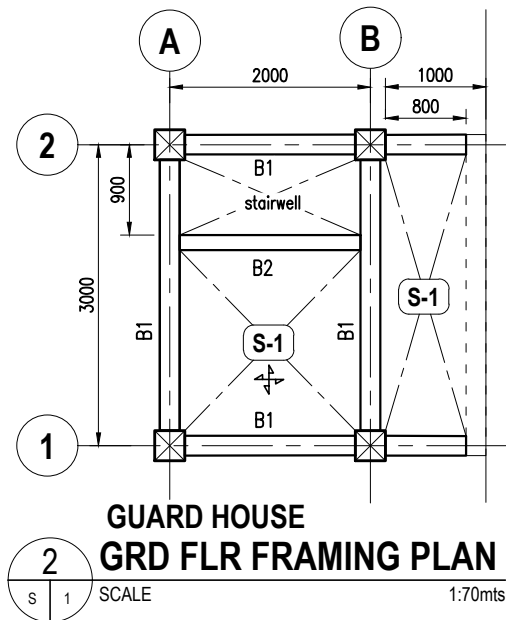
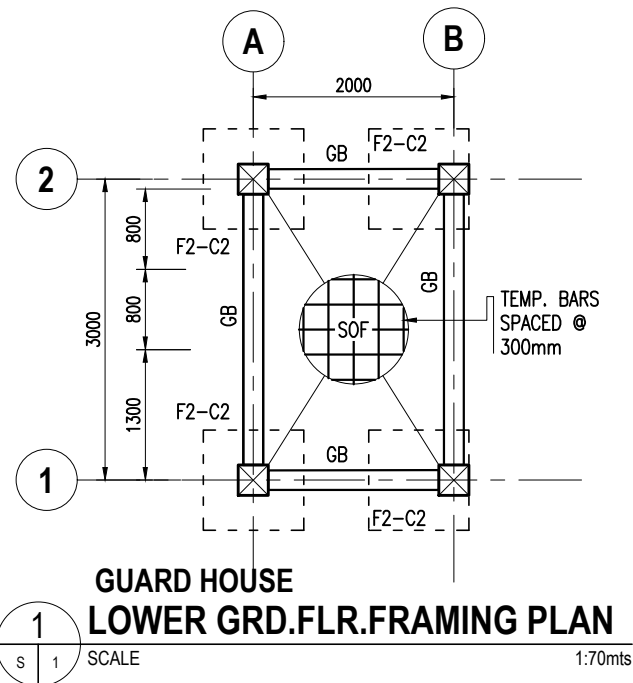


DESCRIPTION:	ALUMINUM GLASS DOOR WITH ORDINARY GLASS, COMPLETE W/ ALL NECESSARY HARDWARE AND ACCESSORIES	FLUSH DOOR W/ 6mm THK. MARINE PLYWOOD ON BOTH FACES	ALUMINUM FIXED AND AWNING WINDOW WITH ORDINARY GLASS, COMPLETE W/ ALL NECESSARY HARDWARE AND ACCESSORIES	ALUMINUM FIXED AND AWNING WINDOW WITH ORDINARY GLASS, COMPLETE W/ ALL NECESSARY HARDWARE AND ACCESSORIES	ALUMINUM AWNING WINDOW WITH ORDINARY GLASS, COMPLETE W/ ALL NECESSARY HARDWARE AND ACCESSORIES
LOCATION:	GUARD HOUSE	COMFORT ROOM	GUARD HOUSE	GUARD HOUSE	COMFORT ROOM
QUANTITY:	1 SET	1 SET	1 SET	1 SET	2 SETS

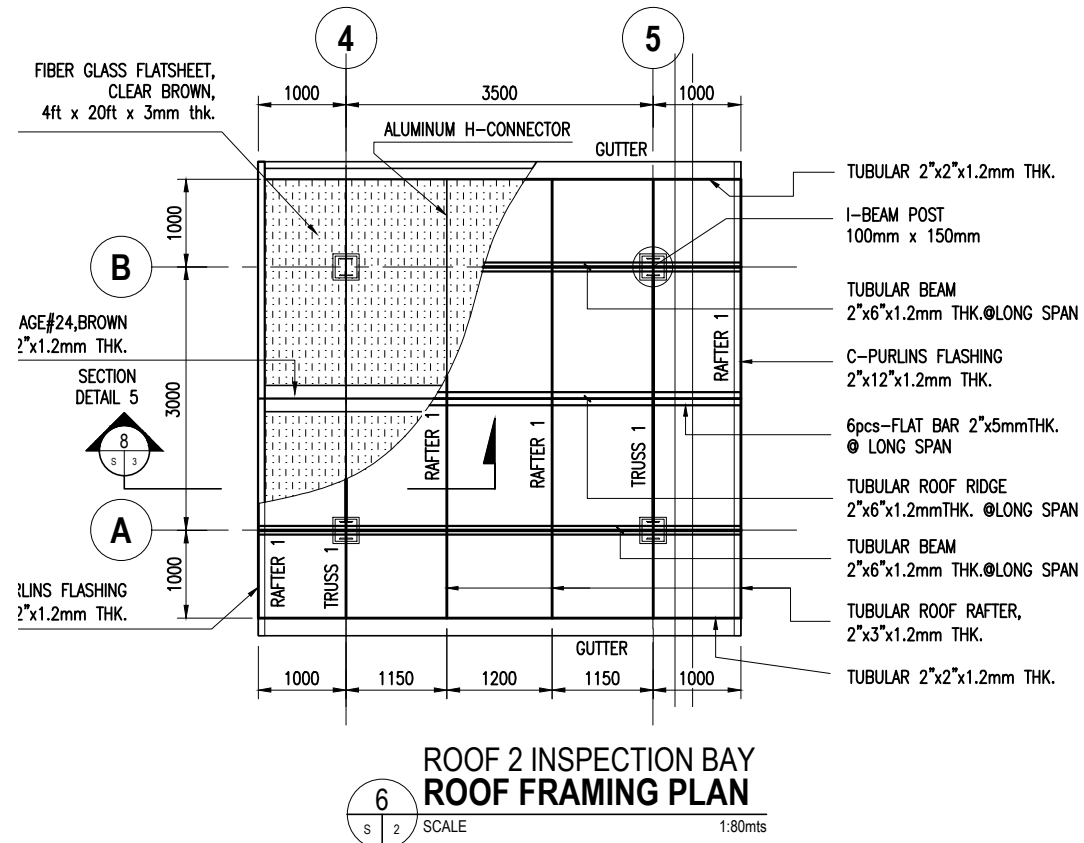
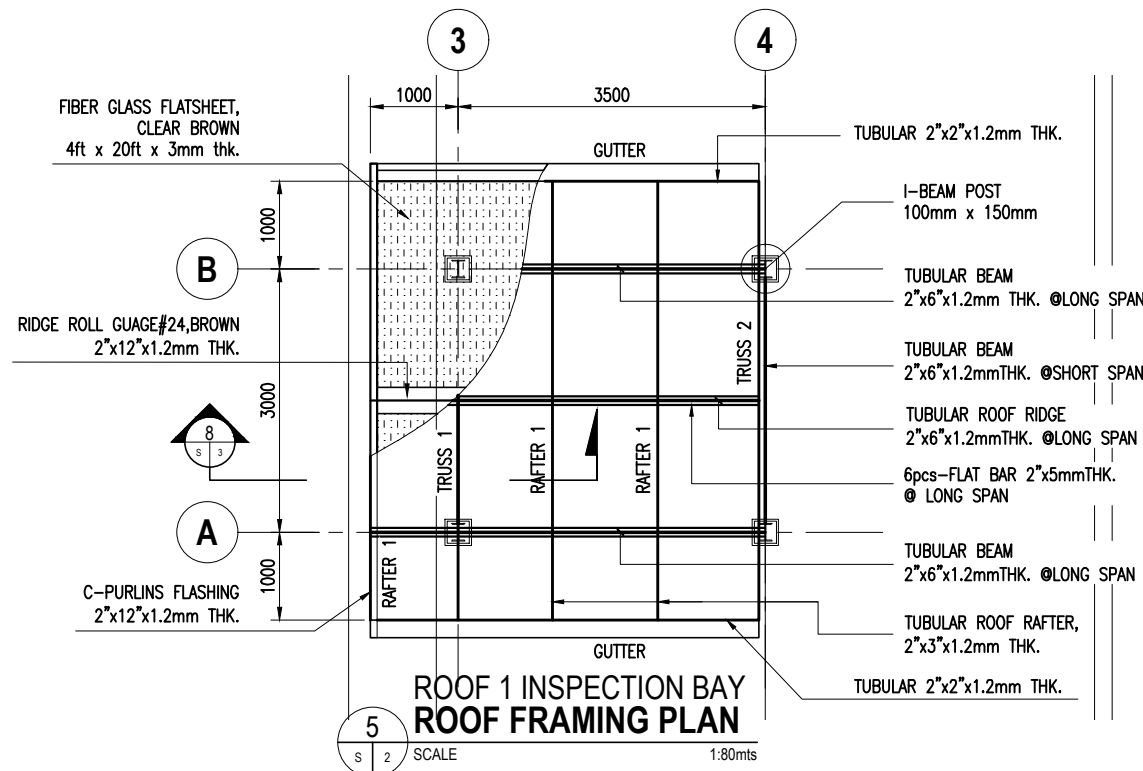
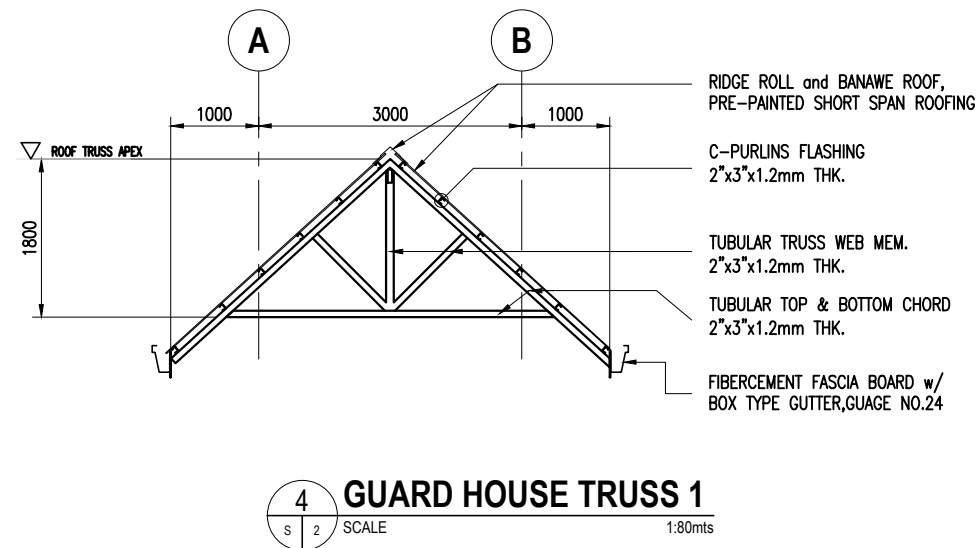
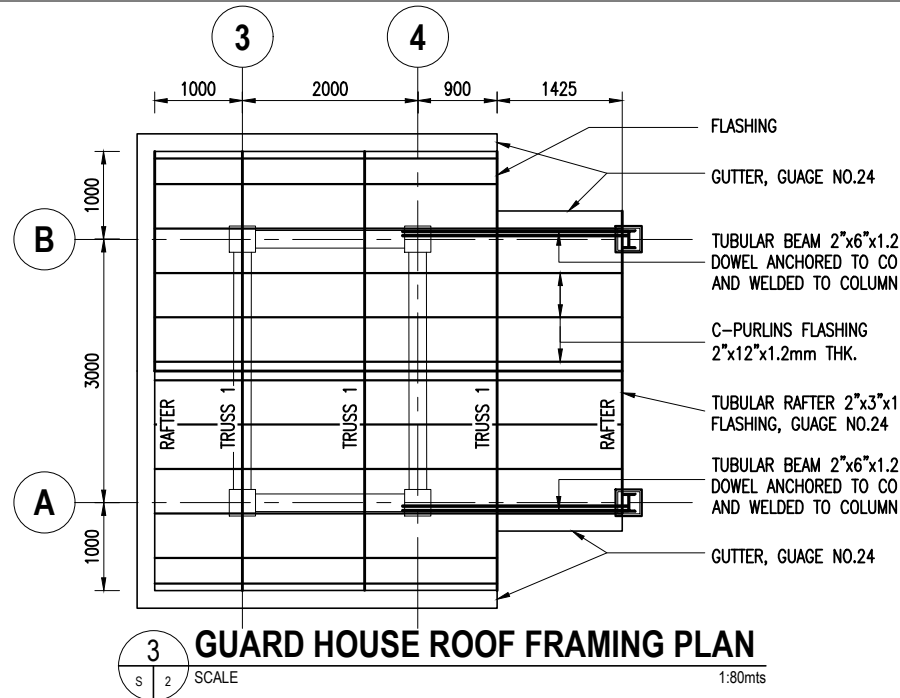
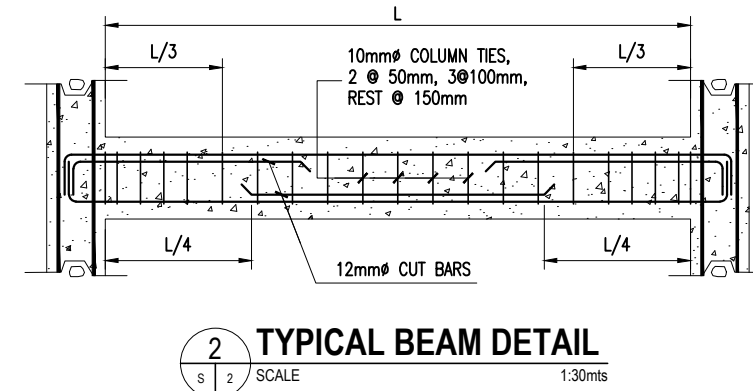
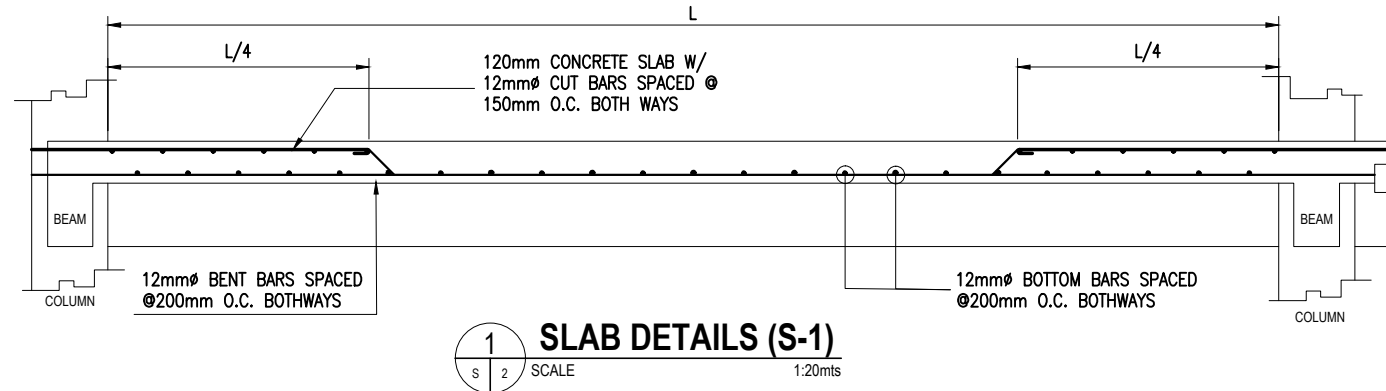
6 DOOR and WINDOW SCHEDULE
SCALE 1:70mts

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ARCH. MARILOU C. DUCLAYAN	
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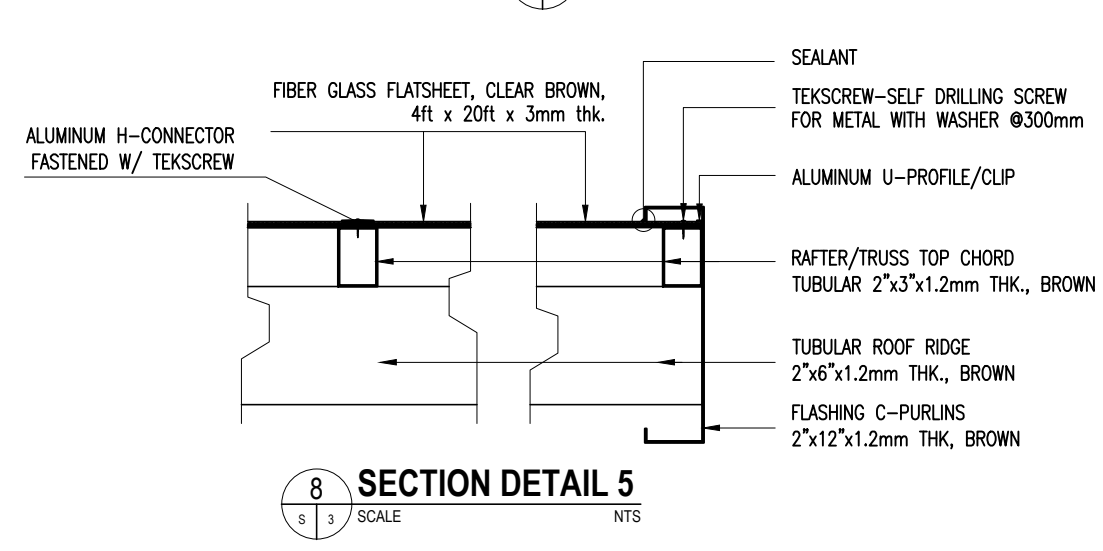
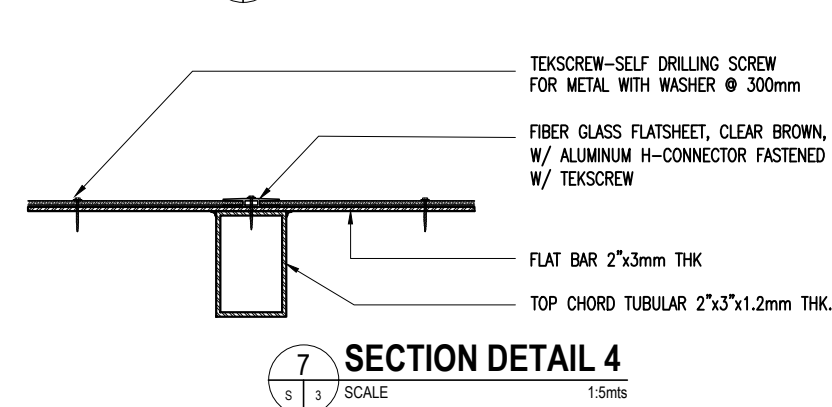
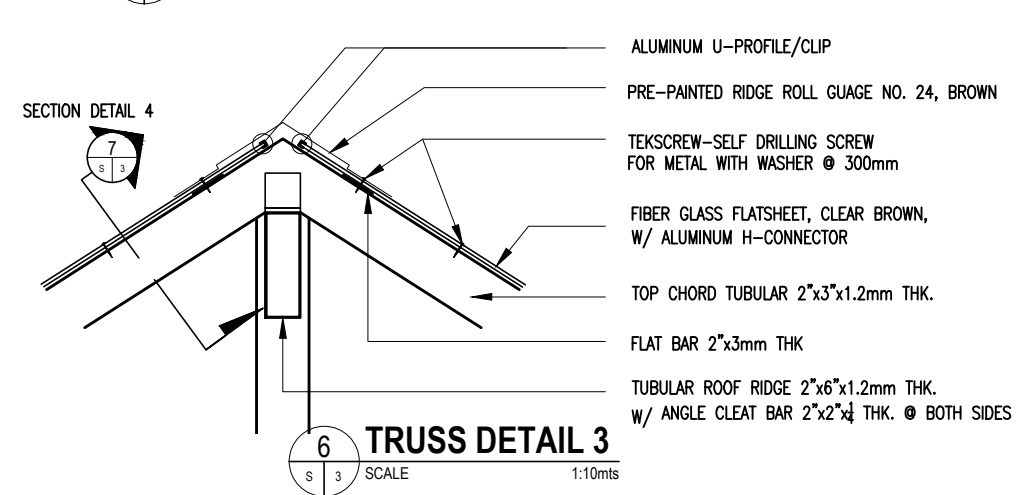
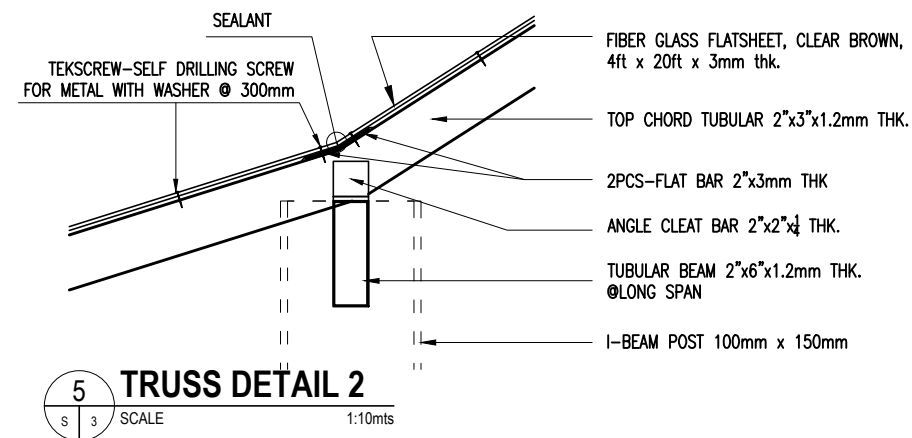
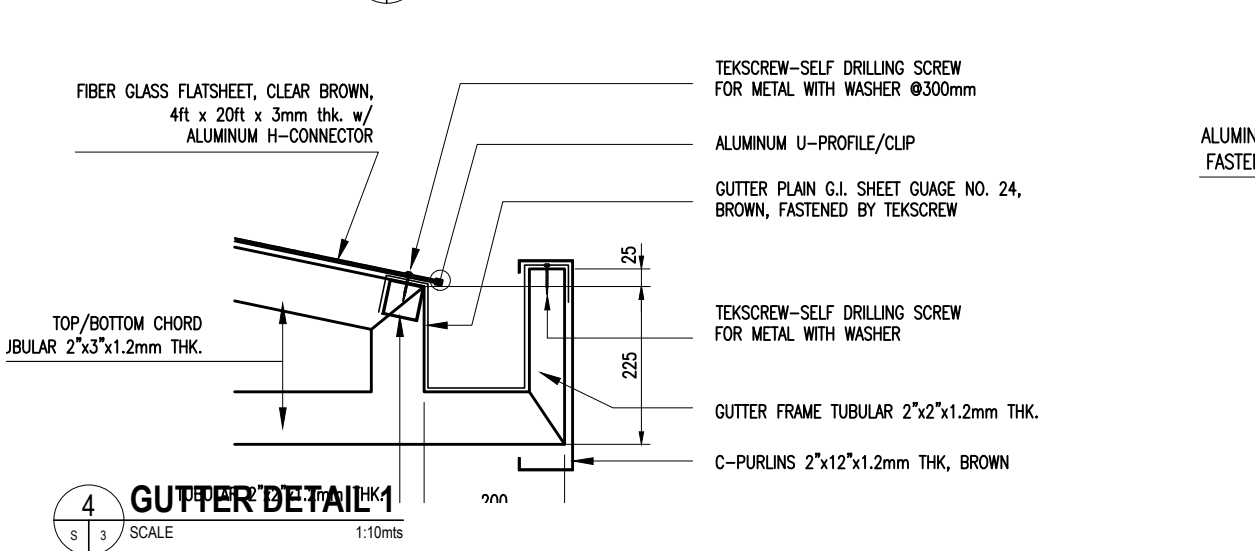
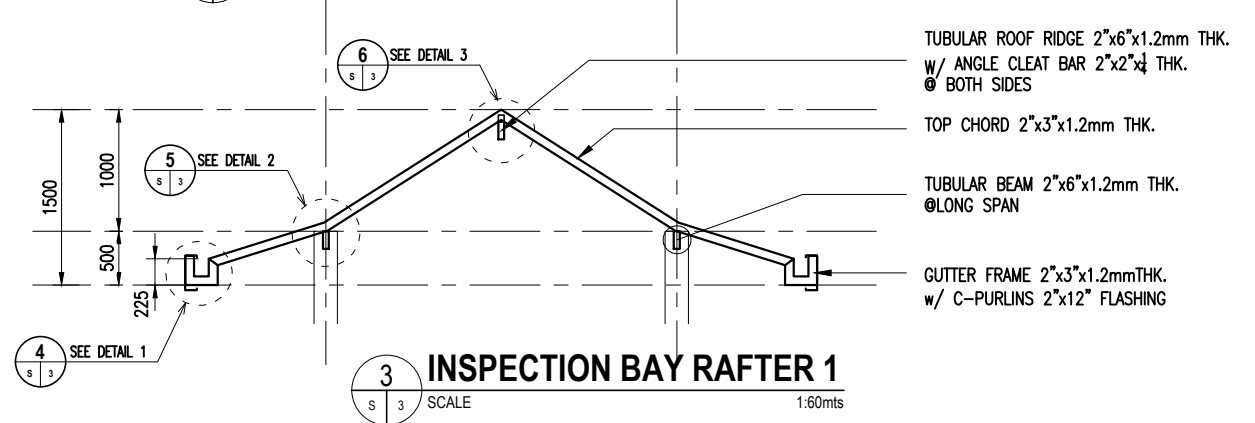
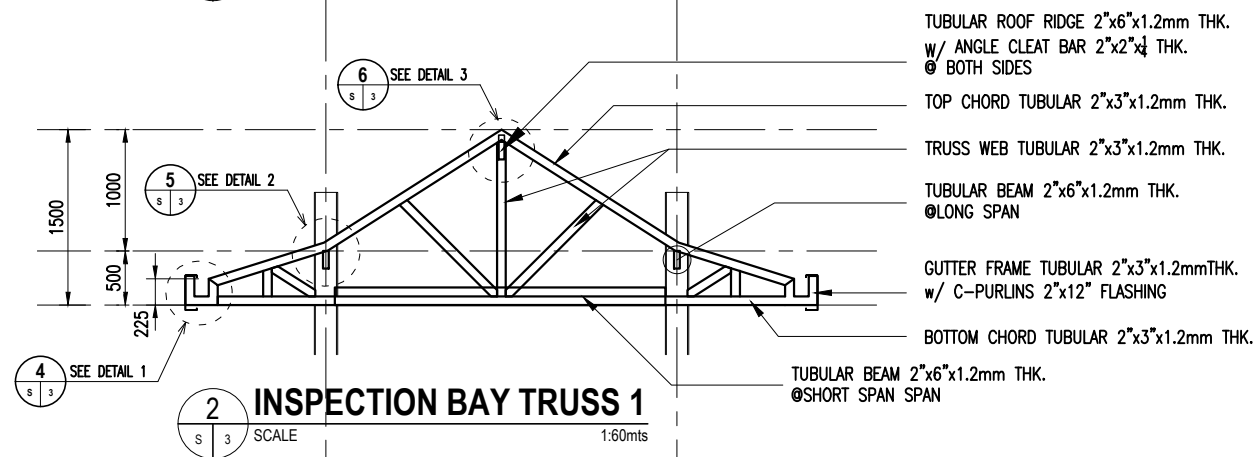
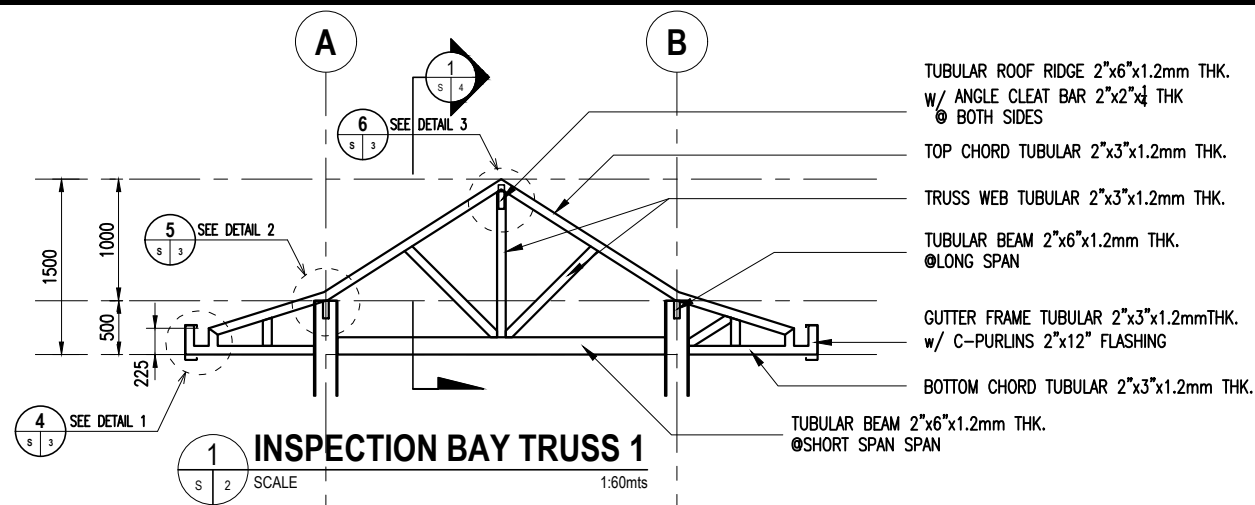




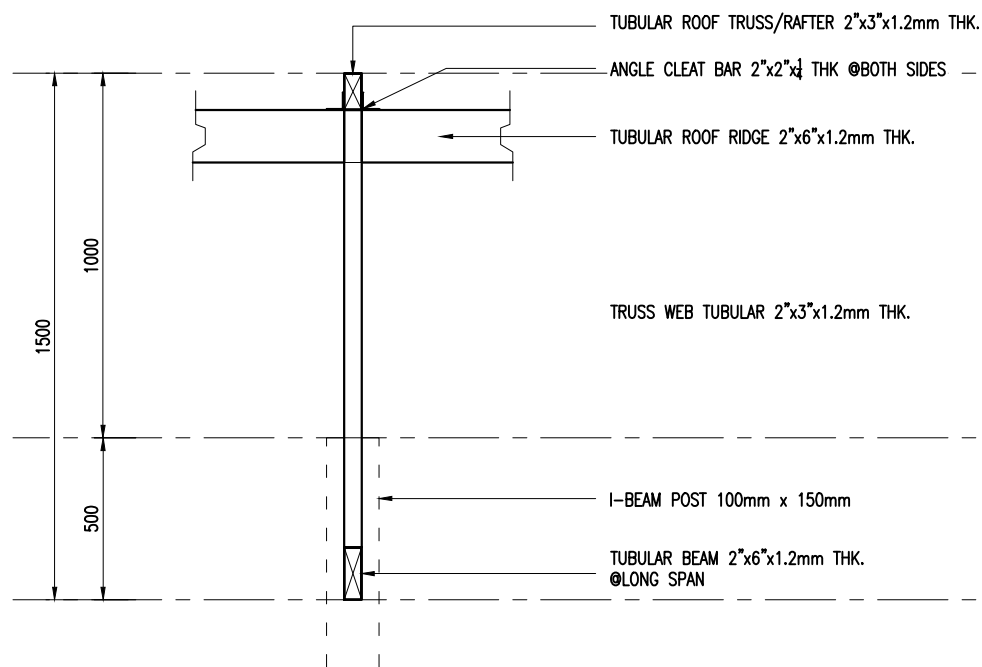
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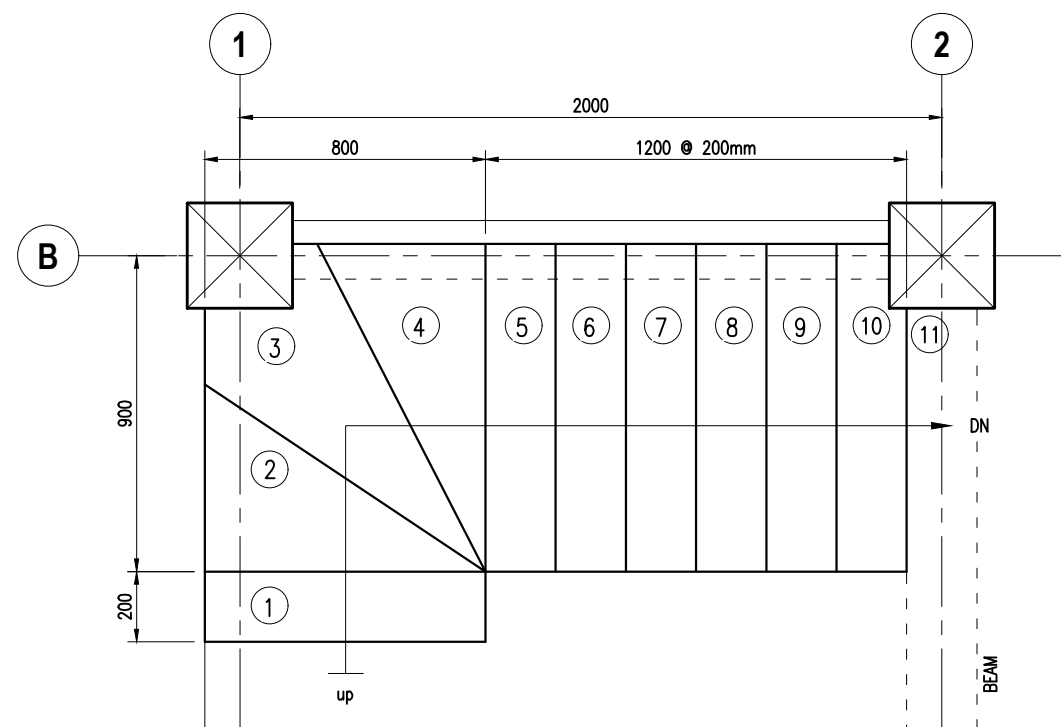
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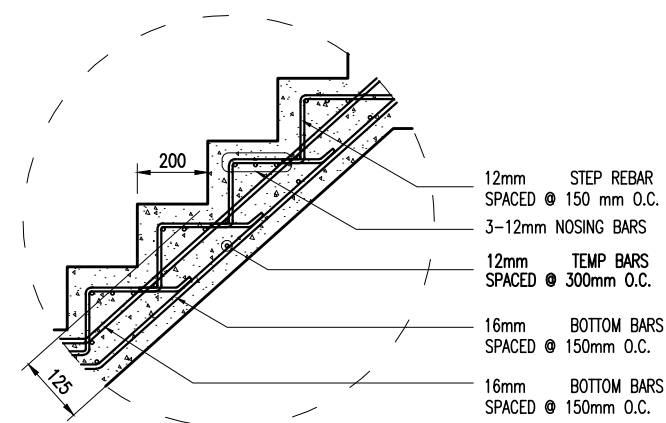
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SECTION DETAIL 6
SCALE: 1/4" = 1'-0" NTS



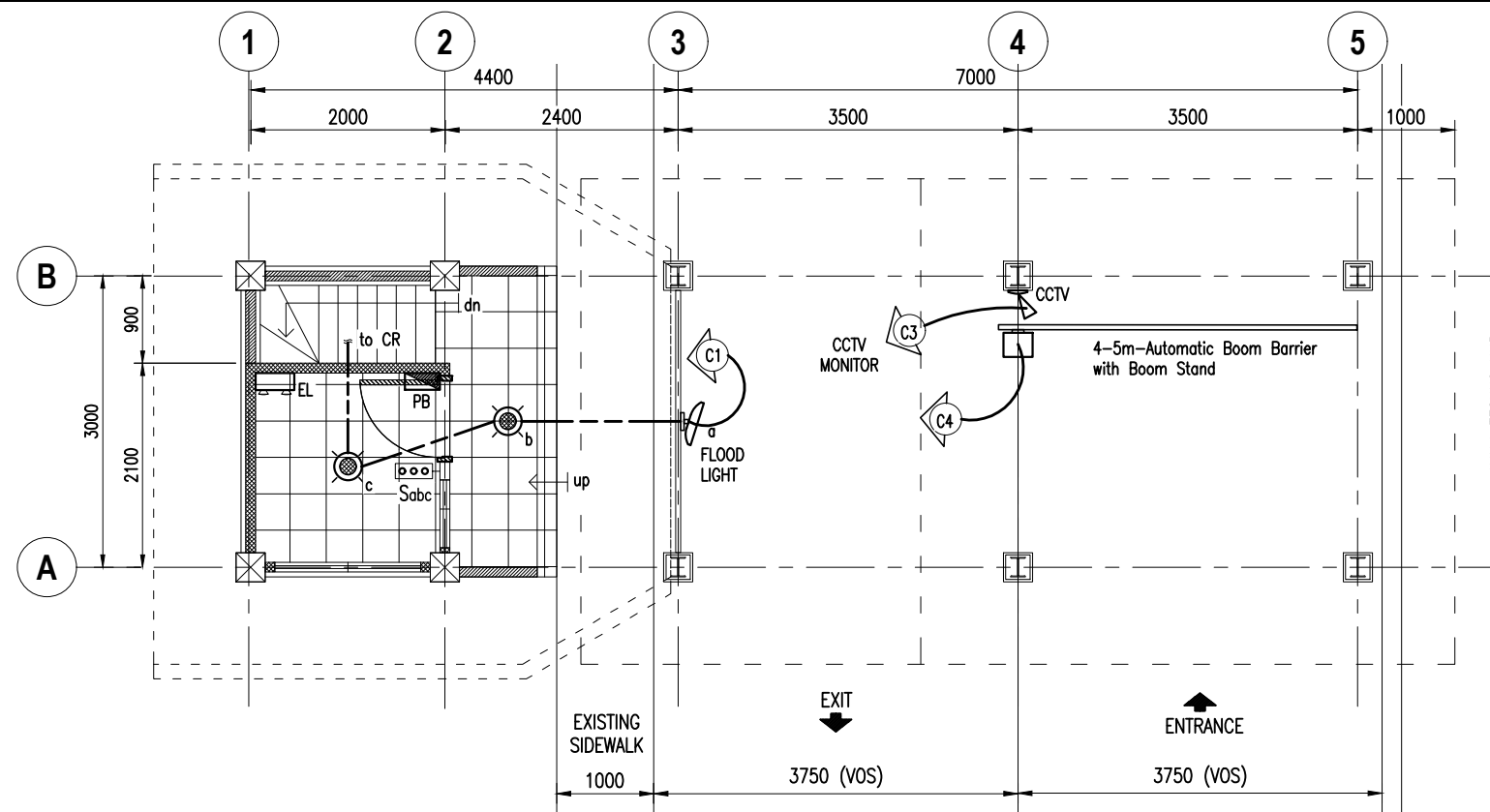
GUARDHOUSE STAIR PLAN
SCALE: 1/2" = 1'-0" 1:20mts



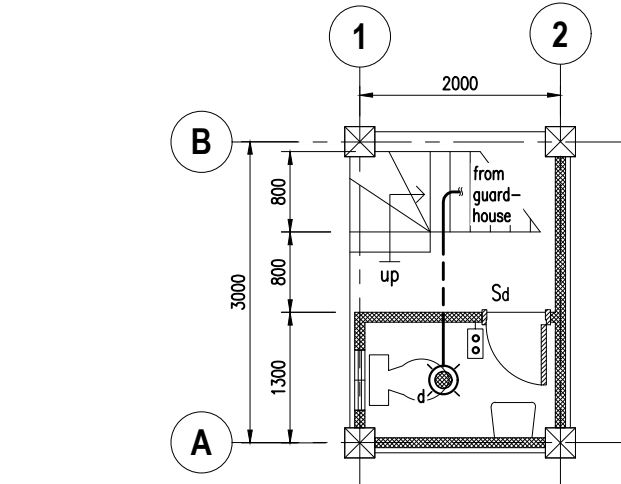
STAIR DETAILS
SCALE: 1/2" = 1'-0" 1:30mts



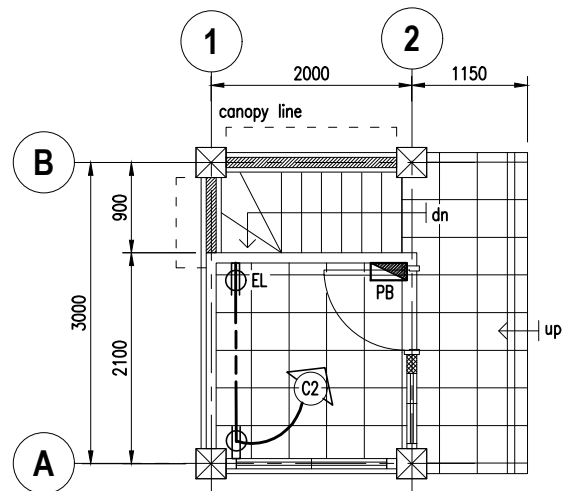
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ARCH. MARILOU C. DUCLAYAN	
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1 GATE - INSPECTION BAY & GUARD HOUSE GRND FLR LIGHTING LAYOUT
SCALE 1:70mts



2 GUARD HOUSE LOWER GRND FLR. LIGHTING LAYOUT
SCALE 1:70mts

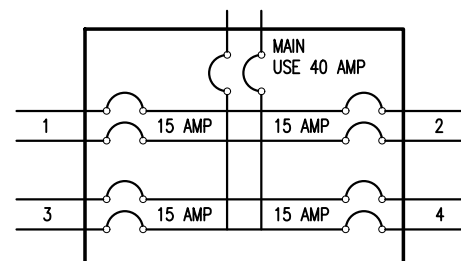


2 GUARD HOUSE LOWER FLR. POWER LAYOUT
SCALE 1:70mts

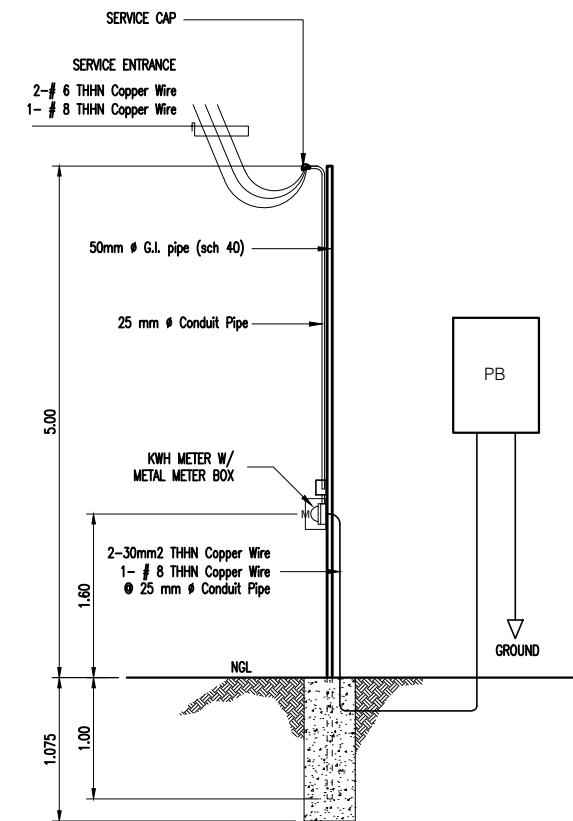
LOAD SCHEDULE								
CIRCUIT NO.	LOAD DESCRIPTION	NO. OF OUTLETS	POWER (VA)	VOLTAGE (VOLTS)	CURRENT (AMP)	BREAKER RATING	WIRE SIZE (mm ²)	CONDUIT SIZE (mm)
1	LIGHTING	4	400	230	1.74	15 AMP	2.0	20 mm Ø
2	CONVENIENCE OUTLET	2	360	230	1.57	15 AMP	3.5	20 mm Ø
3	CCTV	1	500	230	2.17	15 AMP	3.5	20 mm Ø
4	BOOM BARRIER	1	SEE SPECIFICATION	230		15 AMP	3.5	20 mm Ø
	TOTAL		1,260					

USE:
 MAIN FEEDER CONDUCTOR 2 - #8.0 mm² THHN Stranded Copper Wire
 GROUND CONDUCTOR 1 - #6.0 mm² THHN Stranded Copper Wire
 MAIN DISCONNECT 40 Amperes, 2 pole, 250 Volt Circuit Breaker

5 LOAD SCHEDULE
SCALE NTS



4 PANEL BOARD SCHEDULE
SCALE NTS



6 SINGLE LINE SERVICE ENTRANCE
SCALE NTS

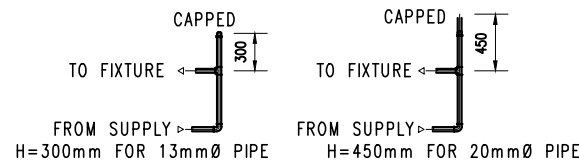
ELECTRICAL LEGENDS :

- LIGHTING FIXTURE, LED LIGHTS
- CONVENIENCE OUTLET
- EMERGENCY LIGHT OUTLET
- 3-GANG SWITCH
- EMERGENCY LIGHT, LED TYPE
- LIGHTING LINE
- POWER LINE
- CIRCUIT

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PLUMBING / SANITARY NOTES :

1. ALL PLUMBING WORKS AND INSTALLATION SHALL COMPLY WITH THE PROVISIONS OF THE LATEST EDITION OF THE PHILIPPINE NATIONAL PLUMBING CODE WITH THE RULES AND REGULATION OF THE NATIONAL AND LOCAL AUTHORITIES CONCERNED IN THE ENFORCEMENT OF SANITARY LAWS.
2. PIPES SHALL NOT BE EMBEDDED ON STRUCTURAL MEMBERS.
3. THE CONTRACTOR SHALL VERIFY AND ORIENT THE ACTUAL LOCATION OF THE WATER AND SEWER TAPPING POINT FOR CONNECTION OF CLEAN WATER AND SEWER DISCHARGE RESPECTIVELY.
4. PLUMBING LAYOUT IS ONLY DIAGRAMATIC PIPES, CLEANOUT, CHECK VALVES SHALL BE CONCEALED FROM VIEW AS MUCH AS POSSIBLE.
5. MINIMUM SLOPE FOR SOIL PIPE SHALL BE 2%
6. ALL PLUMBING FIXTURE SHALL BE VENTED INDIVIDUALLY.
7. PROVIDE GATE VALVES TO ALL WATER SUPPLY LINES TO FIXTURES OR GROUP OF FIXTURES AND/OR EQUIPMENT AND SHALL BE PROVIDED WITH CHAMBERS OR VERTICAL CAPPED PIPE PROPOSED EXTENSION OF DIMENSION AS SHOWN.



8. ALL MATERIALS TO BE USED SHALL BE NEW, APPROVED AND APPROPRIATE TYPE FOR LOCATION AND INTENDED USE. WASTE, SOIL AND VENT PIPE SHALL BE PVC, SCHEDULE 40. CLEAN WATER AND HOT WATER LINE SHALL BE G.I. PIPE SCHEDULE 40 AND 60 RESPECTIVELY.
9. ALL PLUMBING INSTALLATION SHALL BE DONE UNDER THE DIRECT SUPERVISION OF A DULY LICENSED SANITARY ENGINEER OR A REGISTERED MASTER PLUMBER.

1. WASTE WATER CALCULATION

ESTIMATED WATER CONSUMPTION
OCCUPANTS = 10 PERSONS x 200 LITERS / DAY
= 2,000 LITERS/DAY

ESTIMATED WASTE WATER PRODUCED
= 2,000 LITERS/DAY x 60% = 1,200 LITERS/DAY
(1 cu.m = 1000 LITERS)
= 1,200 LITERS / 1000 LITERS
= 1.2 cu.m PER DAY

2. WATER TANK COMPUTATION

NO. OF PERSONS: 10 PERSONS
GALLONS PER PERSON PER DAY: 75 GALLONS
GALLONS PER DAY: 10 x 75 GALS. = 750 GALS
CONSTANT: DAILY SEWAGE FLOW IN GAL. 1.125 AND .75
FORMULA:
 $V = 1.125 + 750$
 $V = 1.125 + .75(750)$
 $V = 563.66$ GALLONS
(1 cu.m/264 GAL)
 $V = 563.66$ GALLONS/264 GALLONS
 $V = 2.14$ CU.M

3. SEPTIC TANK DIMENSION, MIN. DEPTH IS 1.20 mts AND WIDTH IS 1.00mts

LENGTH OF DIGESTION CHAMBER
 $L = \text{VOLUME} / \text{WIDTH} \times \text{DEPTH}$
 $L = 2.14 \text{ CU.M.} / 1.00 \times 1.20$
 $L = 1.78$ METERS

TOTAL LENGTH:
 $= L / 2 + L$
 $= 1.78 / 2 + 2.13 = 1.90$ meters

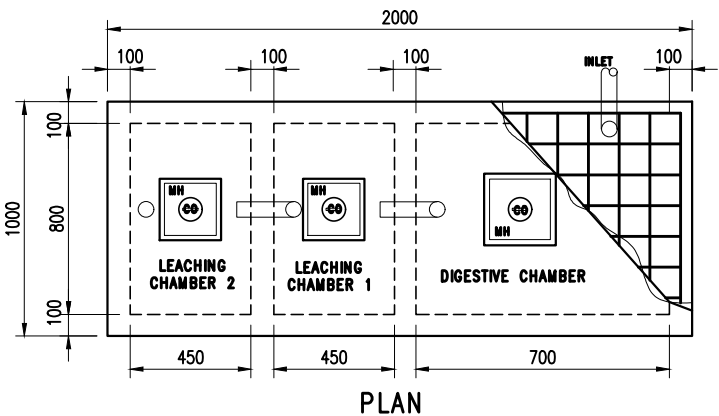
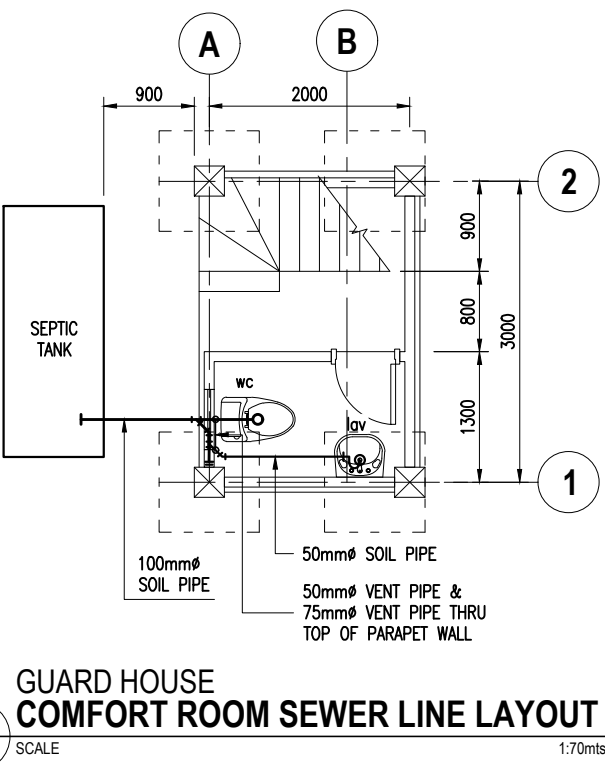
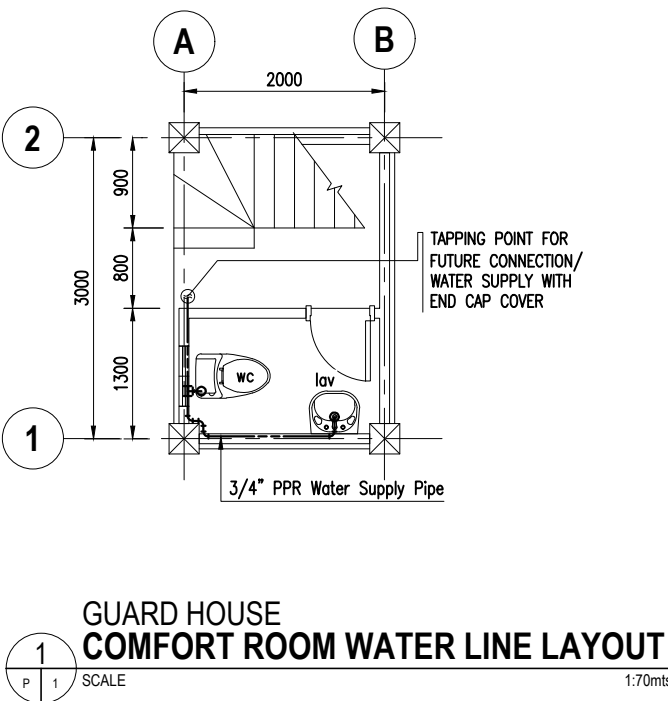
REQUIRED SEPTIC TANK SIZE = $L \times W \times D$
 $= 1.90\text{m} \times 1 \times 1.20 = 2.28$ CU. M

PROPOSED SEPTIC TANK SIZE = $L \times W \times D$
 $= 2 \times 1 \times 1.20 = 2.40$ CU. M (SAFE)

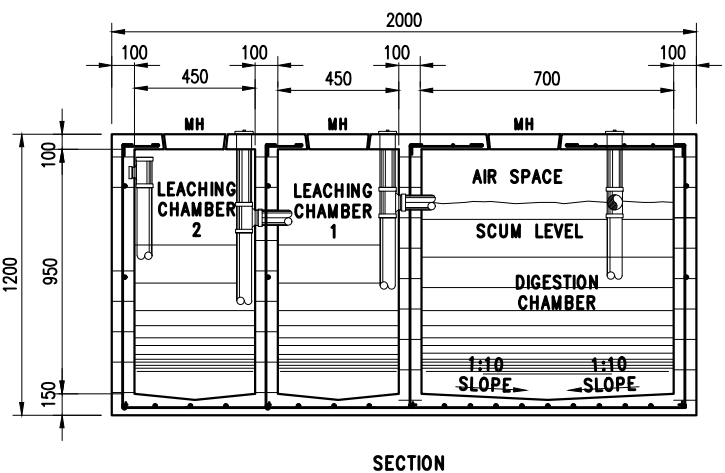
GUARD HOUSE
SEPTIC TANK COMPUTATION
SCALE NTS

LEGEND :

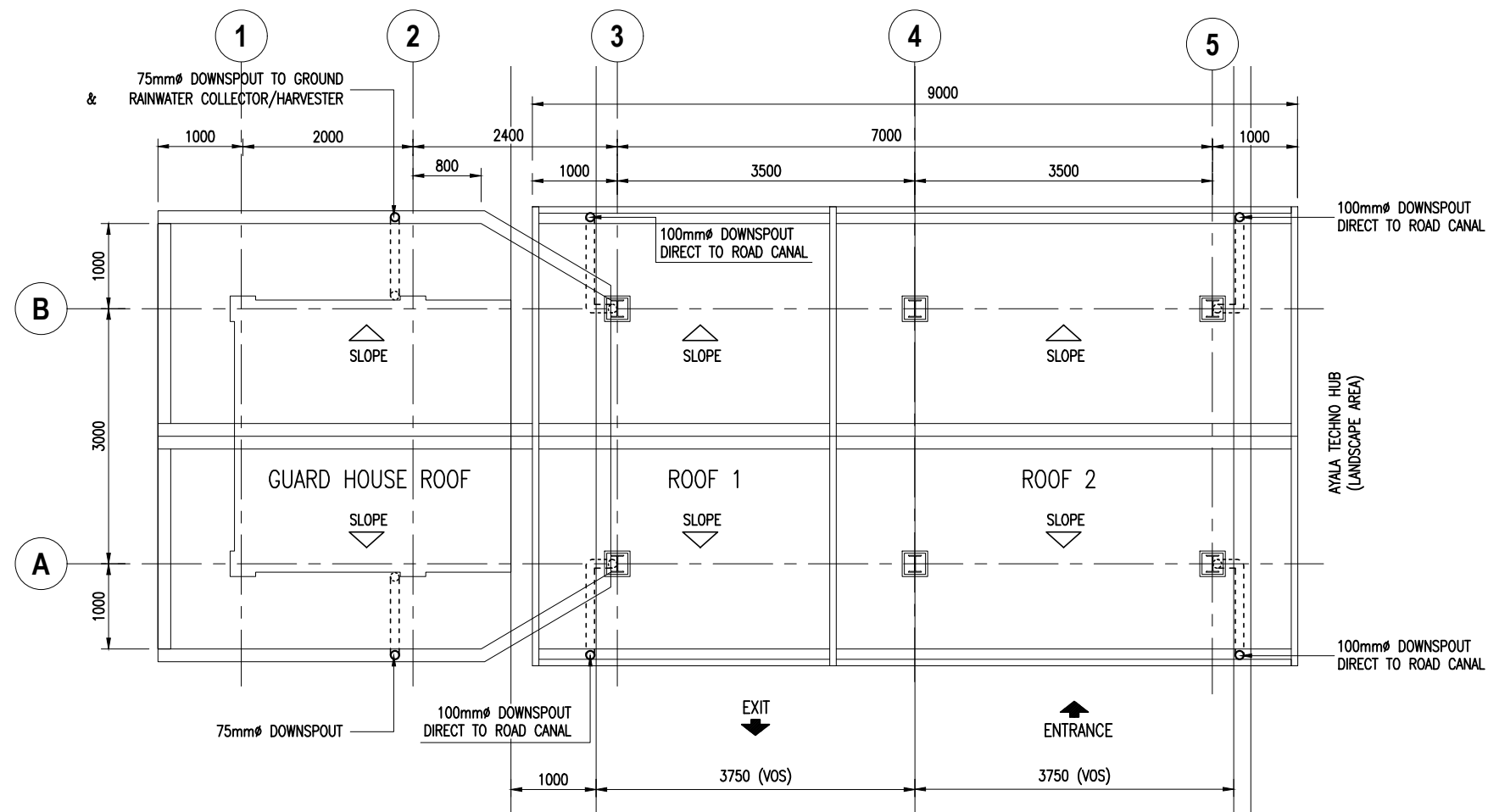
FD FLOOR DRAIN
LAV LAVATORY
SP SOIL PIPE
SSP SOIL STACK PIPE
VP VENT PIPE
VSTR VENT STACK THRU ROOF
WC WATER CLOSET
CO WALL CLEANOUT



GUARD HOUSE
SEPTIC TANK PLAN & DETAILS
SCALE 1:30mts

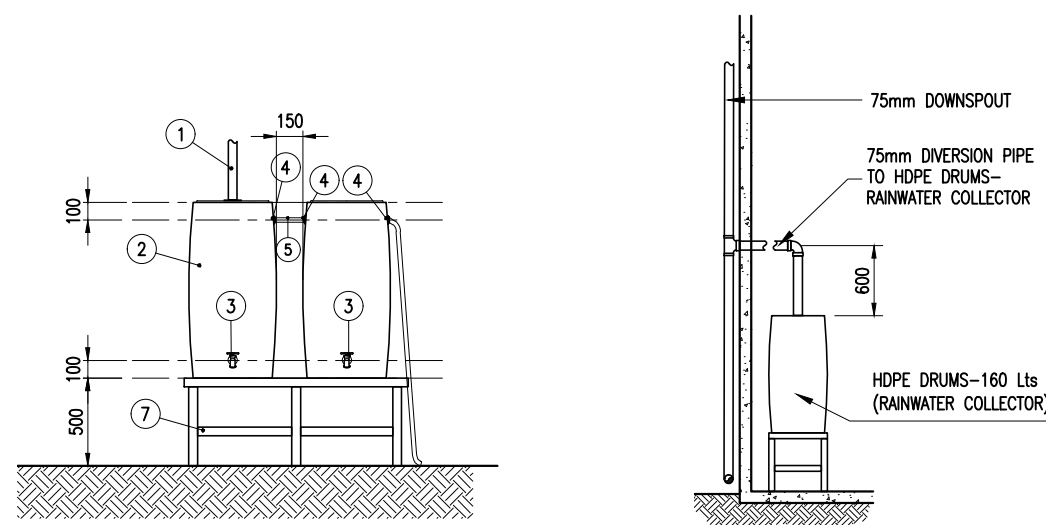


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SHEET CONTENT: AS SHOWN	
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LOCATION OF PROJECT: JOHN HAY SPECIAL ECONOMIC ZONE, CAMP JOHN HAY	
RECOMMENDED BY: ENGR. BOBBY V. AKIA	
CHECKED & APPROVED BY: ARCH. LUZVIMINDA M. NIGOS-PANGANIBAN	
DRAFTED BY: ARCH. MARILOU C. DUCLAYAN	P1
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1 GATE 1 INSPECTION BAY & GUARD HOUSE STORM DRAINAGE LAYOUT
SCALE 1:60mts

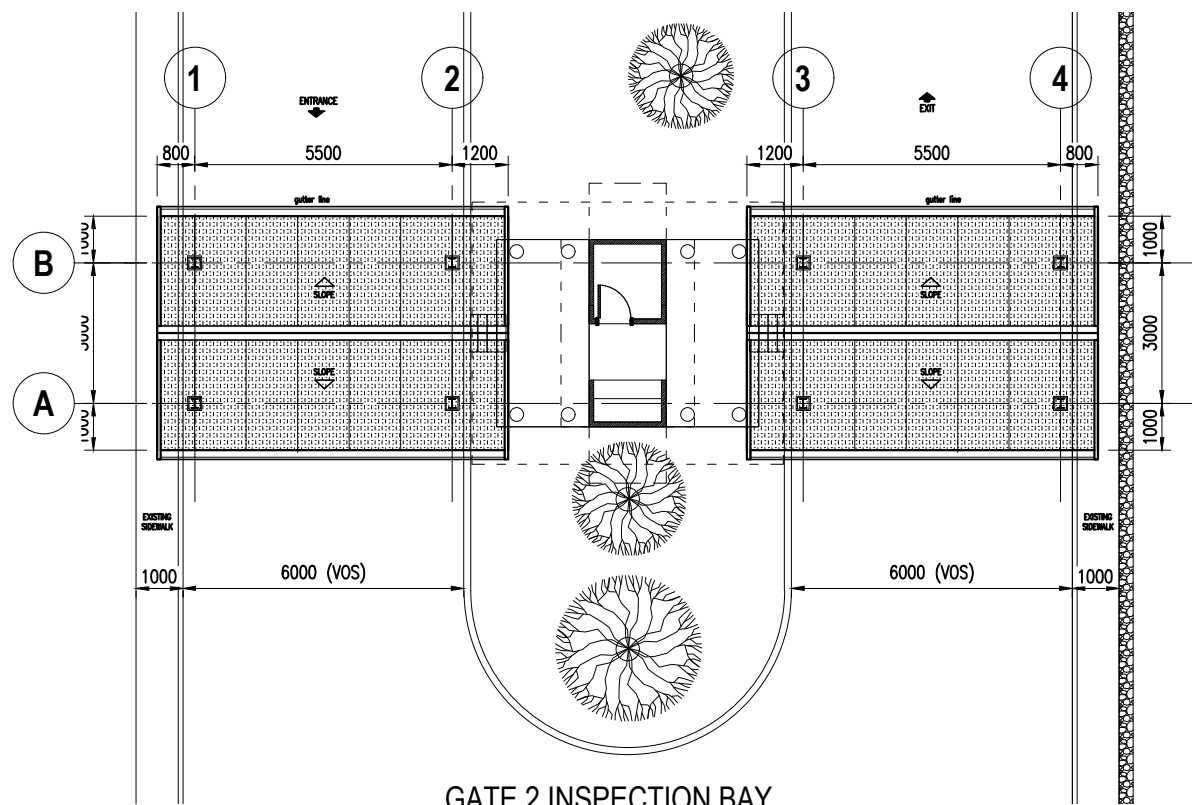
MARK	DESCRIPTION
1	75mmØ PIPE
2	HDPE DRUMS, 160 LT
3	1" HOSE BIB with 3/4" PIPE THREAD, with WASHER (INSIDE & OUTSIDE), COUPLING, BUSHING
4	OVERFLOW VALVE 3/4" PIPE THREAD with 1" HOSE ADAPTER, with WASHER (INSIDE & OUTSIDE) & LOCK NUT
5	3/4" PPR PIPE
6	WATER HOSE CONNECTED TO OVERFLOW VALVE c/o JHMC
7	2"x3" TUBULAR HDPE DRUMS WATER STAND



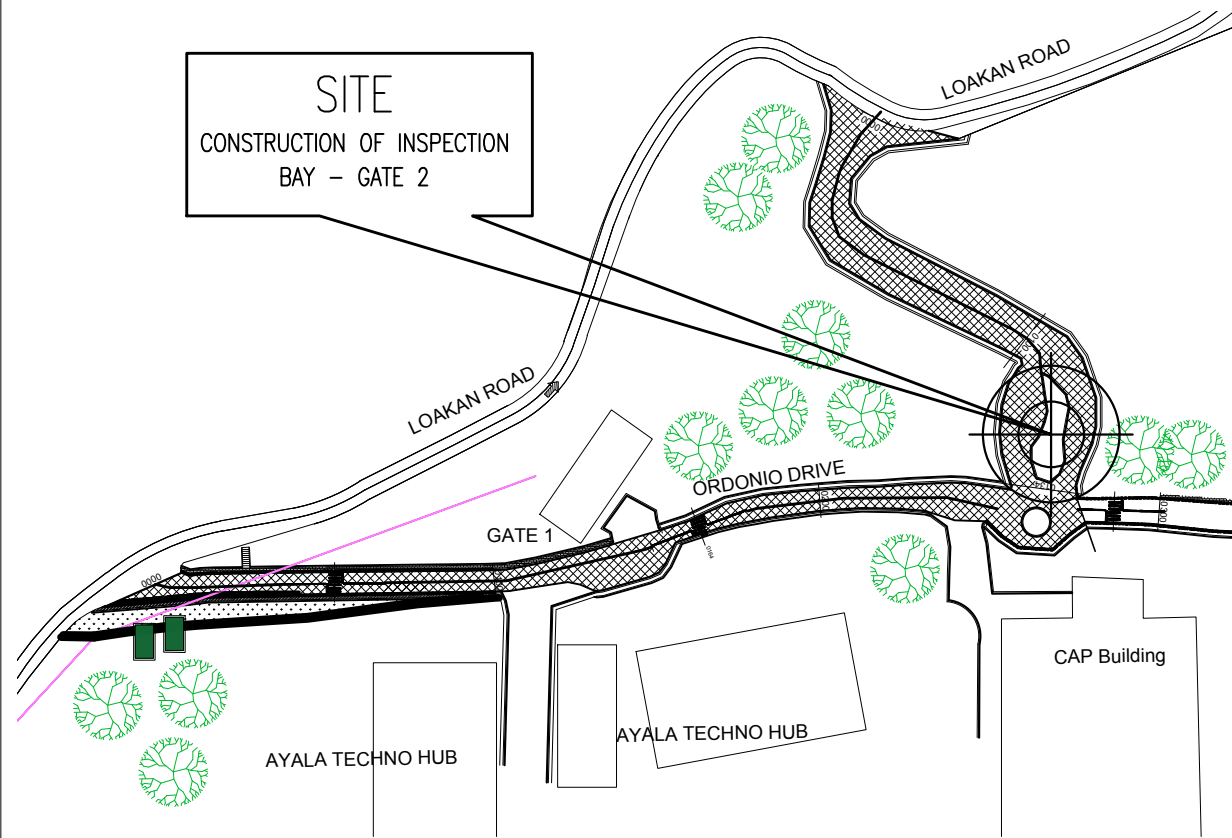
6 GUARD HOUSE (HDPE DRUMS) RAINWATER COLLECTOR DETAILS
SCALE 1:60mts

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GATE 2 INSPECTION BAY
PERSPECTIVE
1
A 1 SCALE

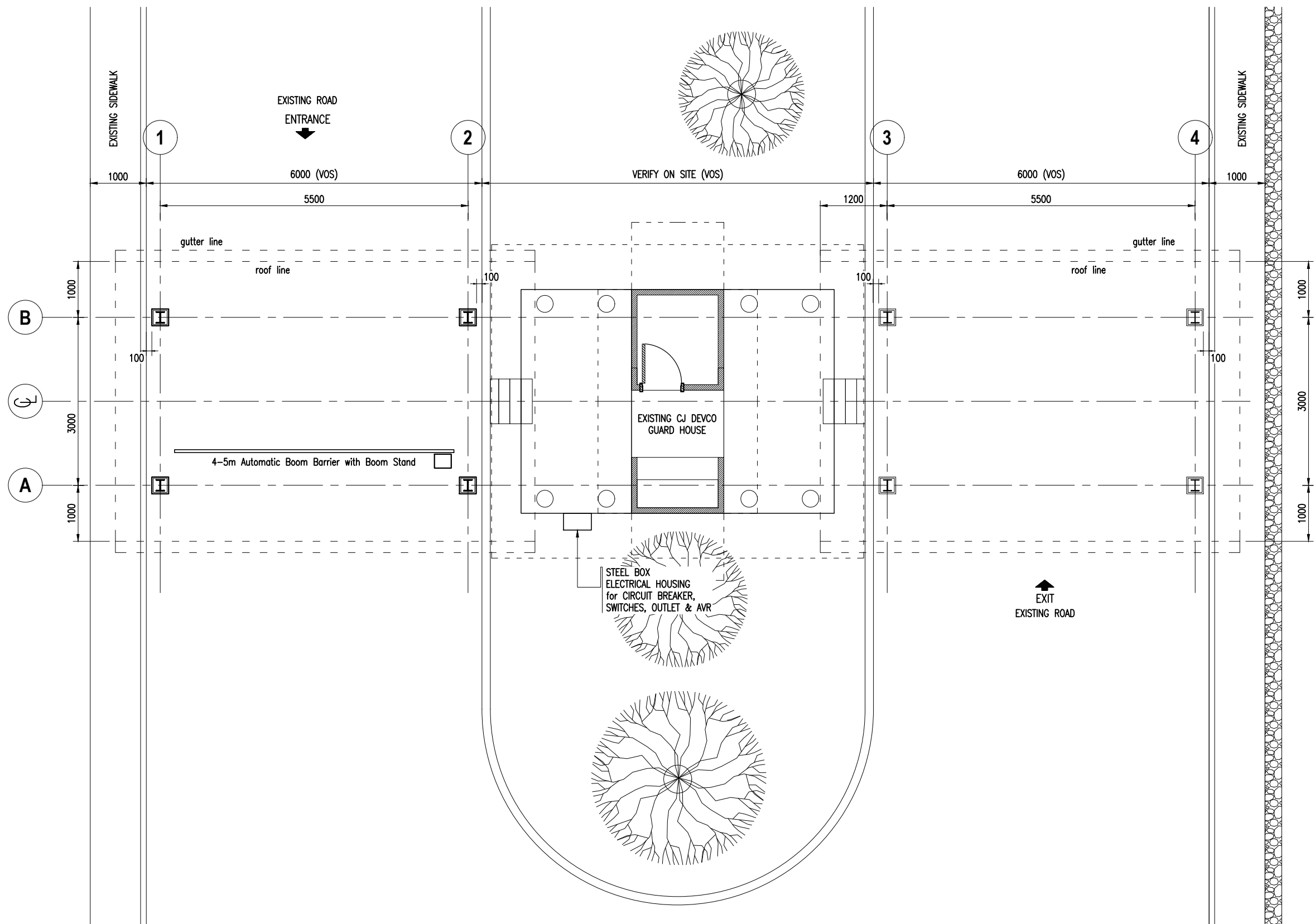


GATE 2 INSPECTION BAY
SITE DEVELOPMENT PLAN
2
A 1 SCALE 1:150mts



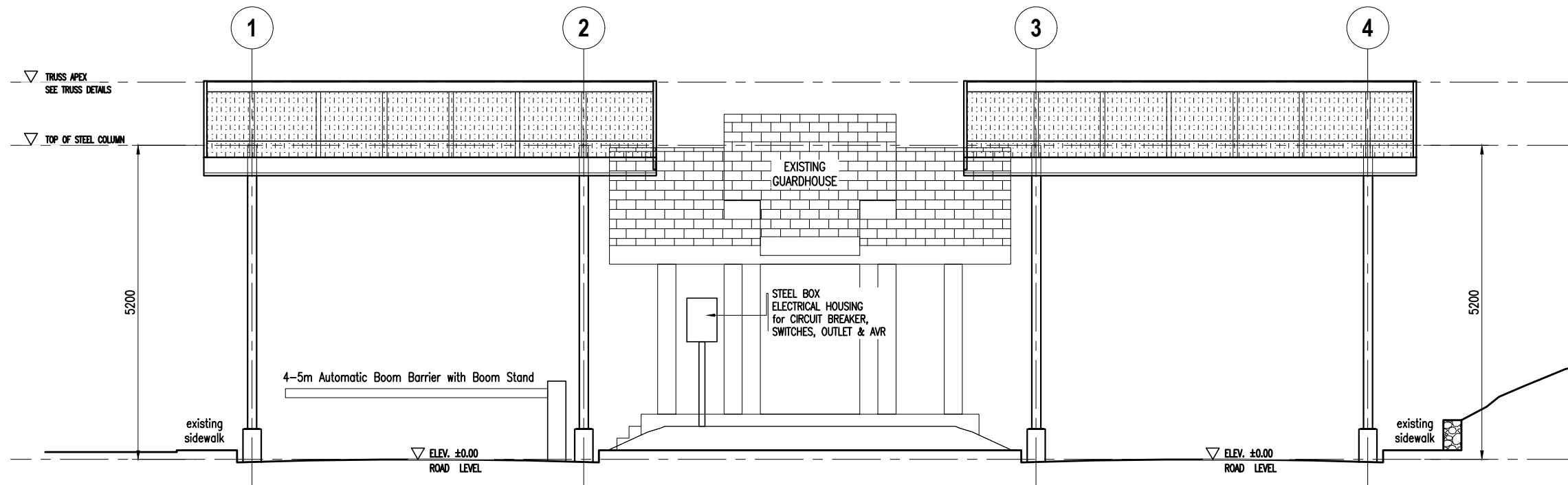
GATE 2 INSPECTION
VICINITY MAP
3
A 1 SCALE NTS

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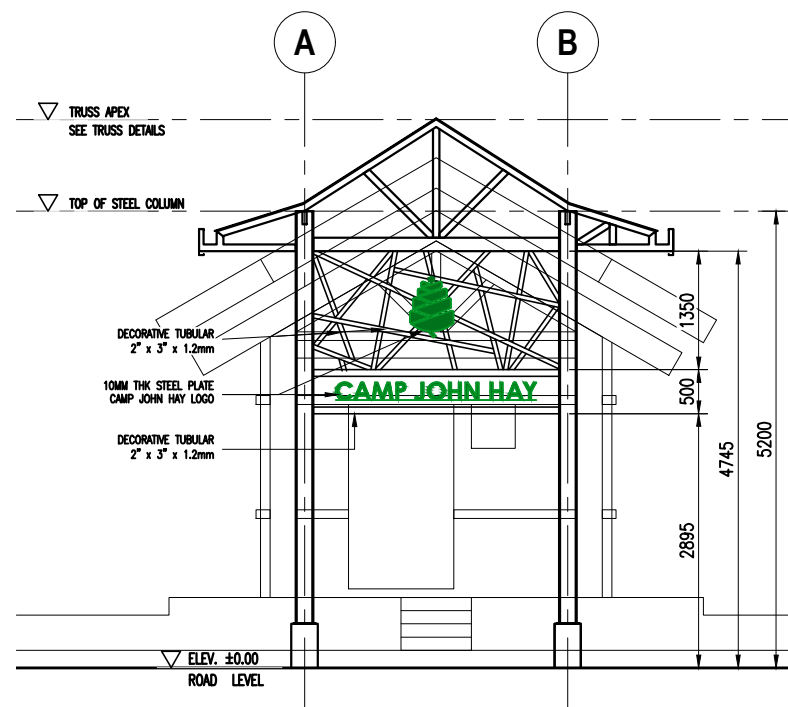


1 GATE 2 INSPECTION BAY PLAN
A 2 SCALE 1:80mts

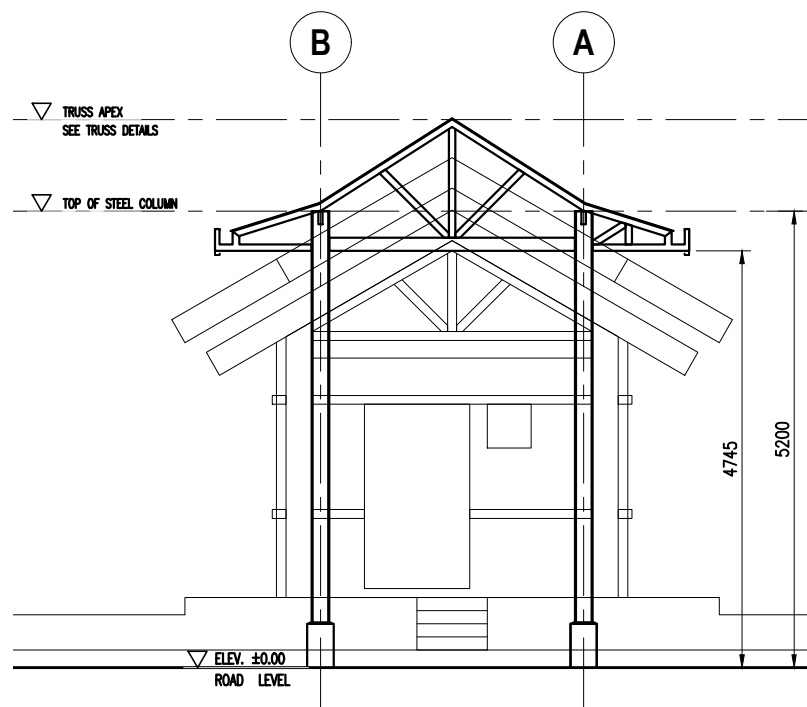
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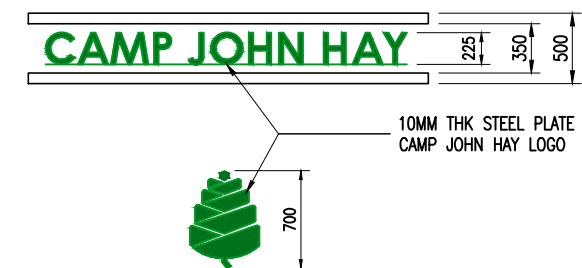
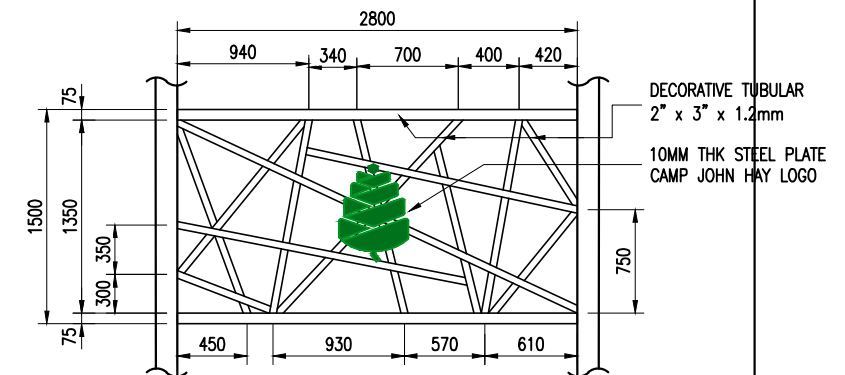
**GATE 2 INSPECTION BAY
TYP. FRONT & REAR ELEVATION**
1 SCALE 1:80mts



**GATE 2 INSPECTION BAY
TYP. LEFT & RIGHT ELEVATION**
2 SCALE 1:80mts

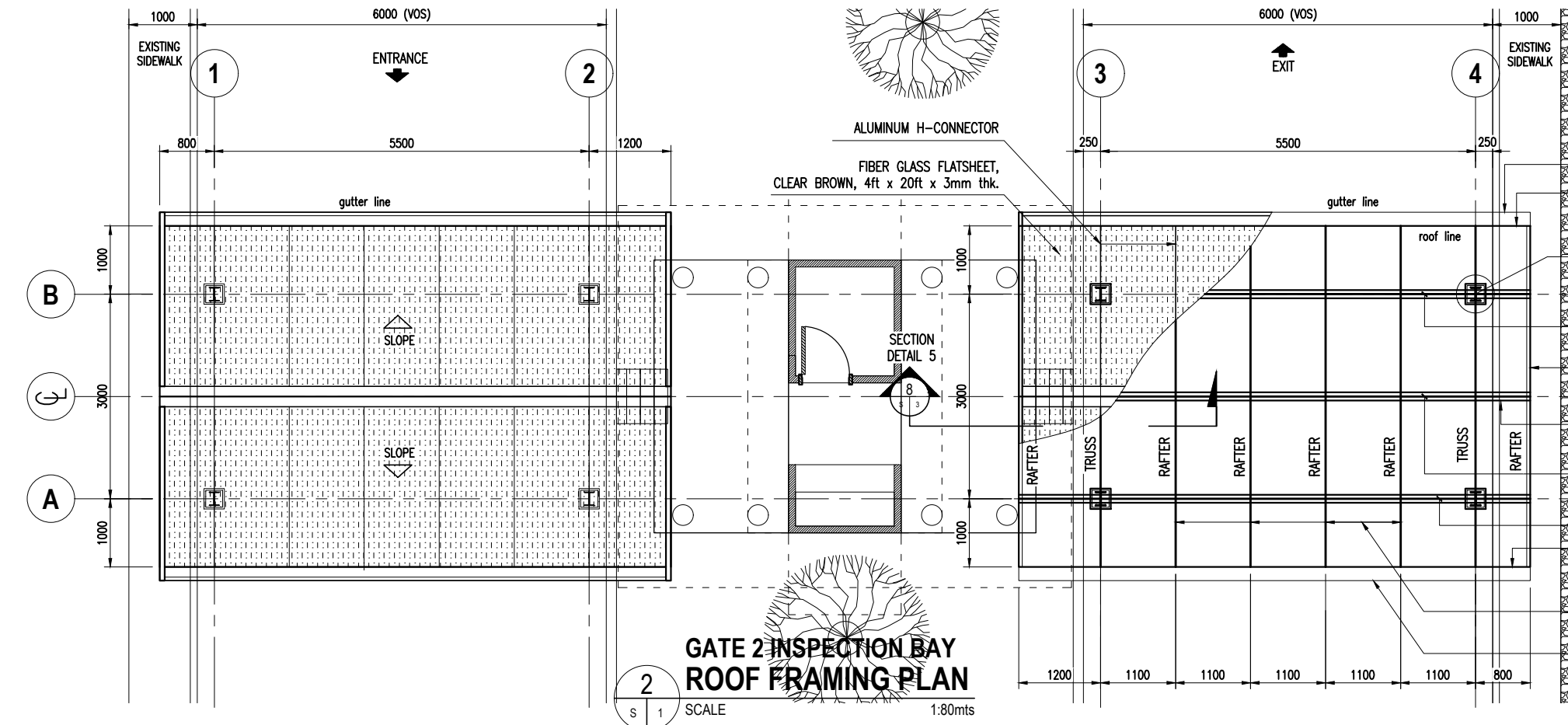
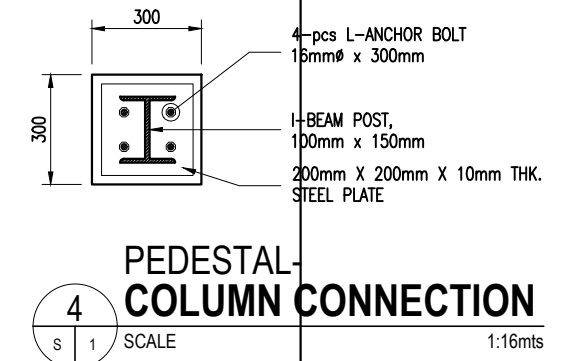
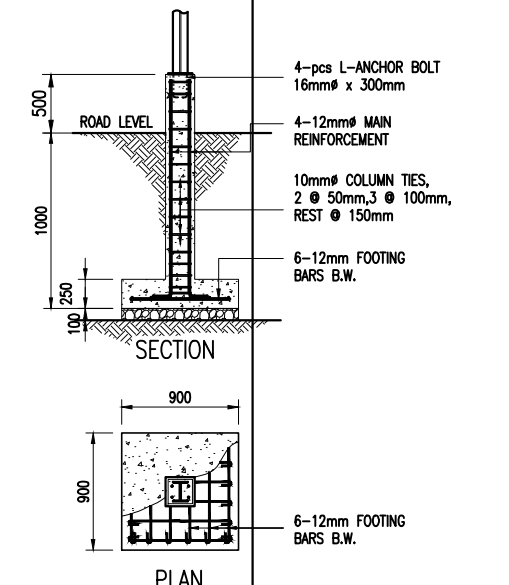
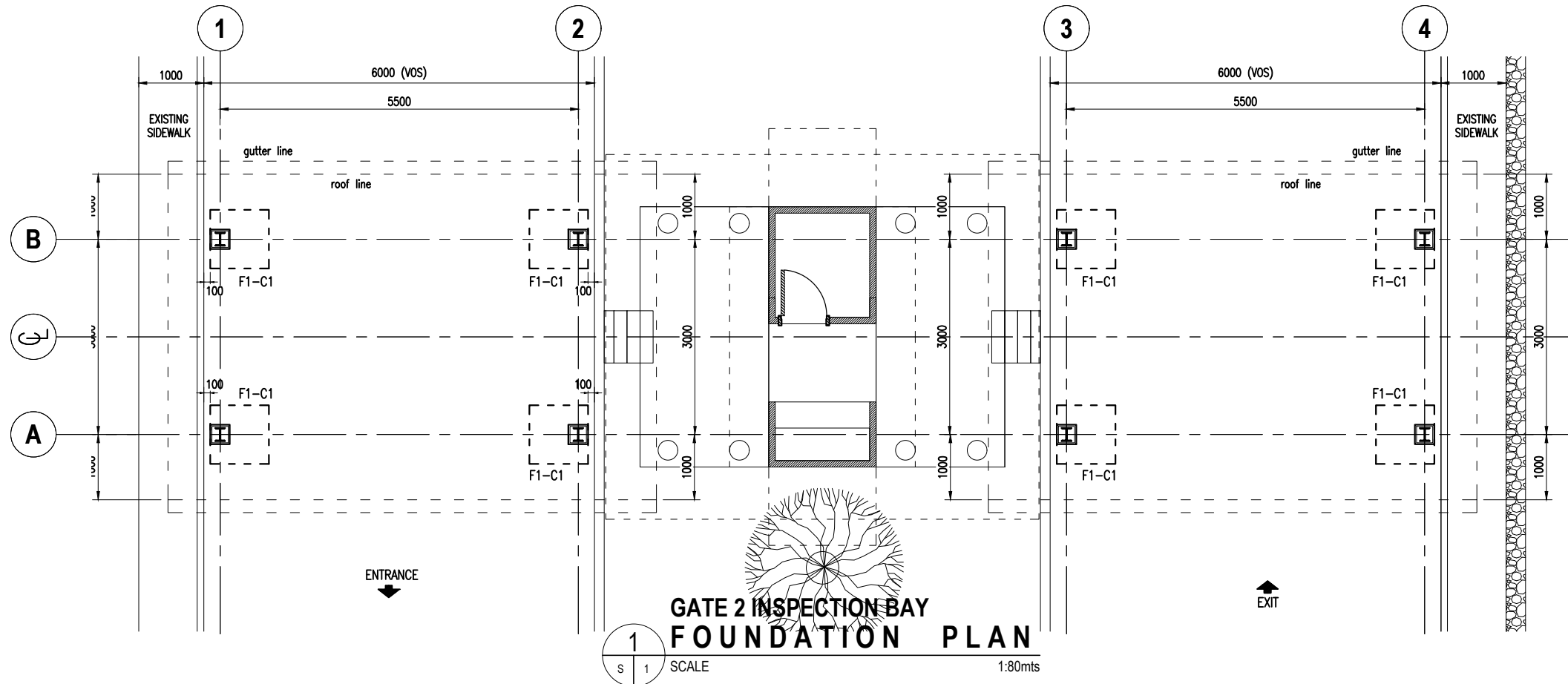


**GATE 2 INSPECTION BAY
TYP. SECTION AT GRID 2 & 3**
3 SCALE 1:80mts



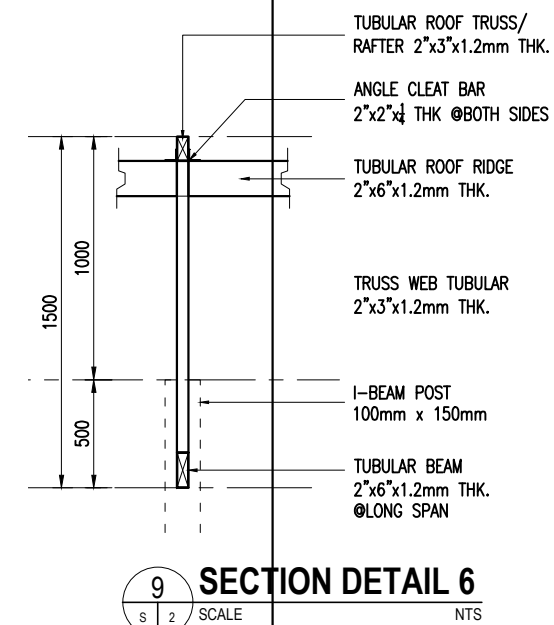
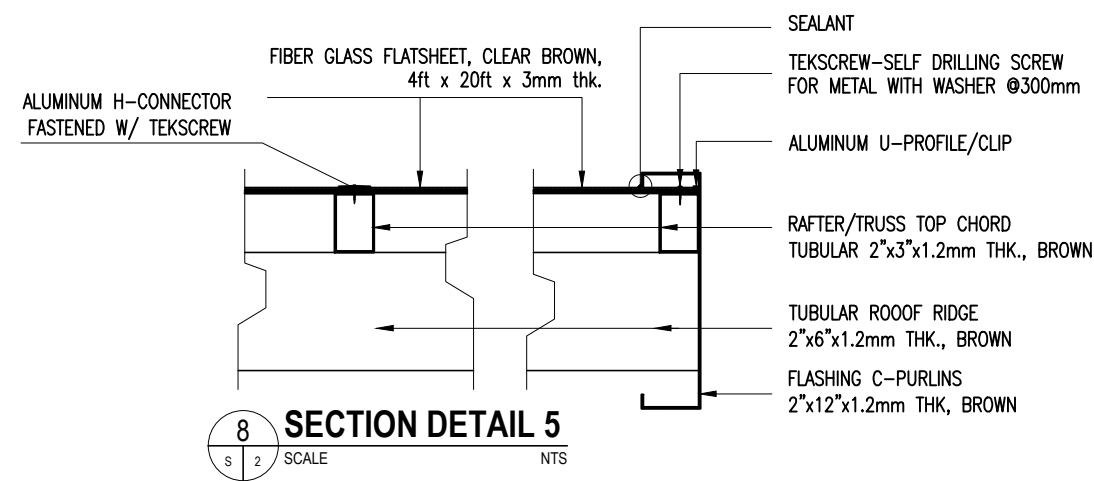
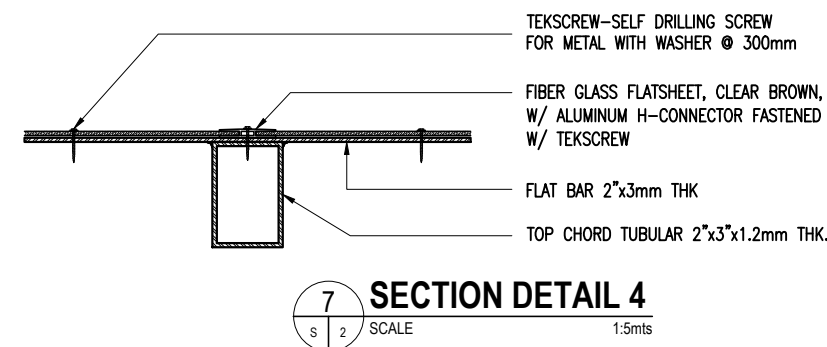
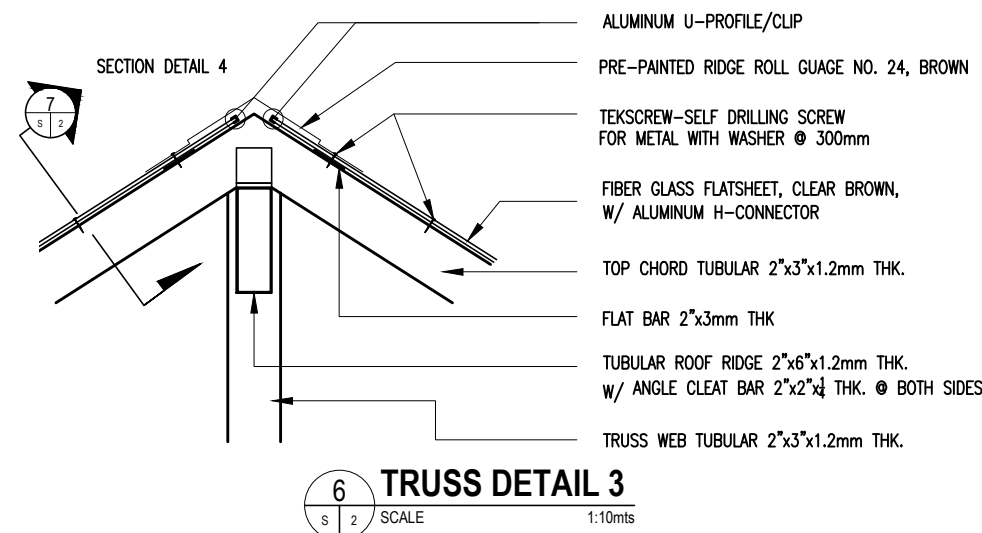
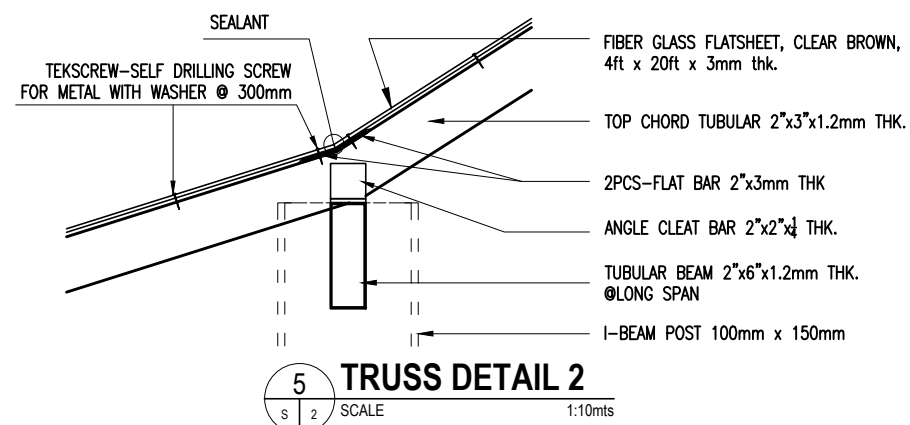
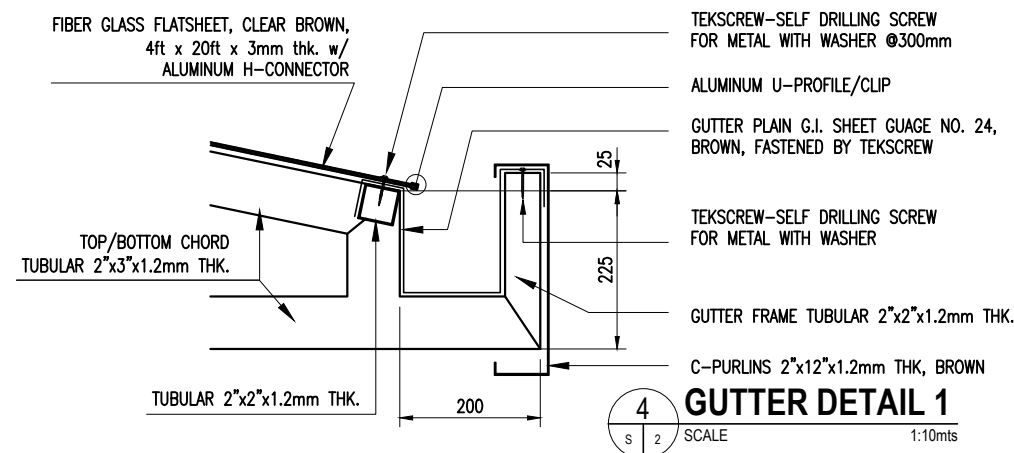
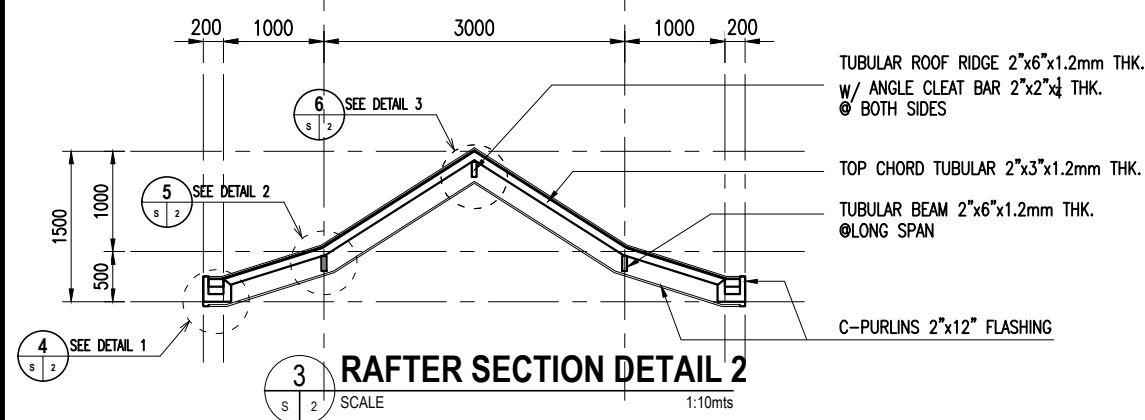
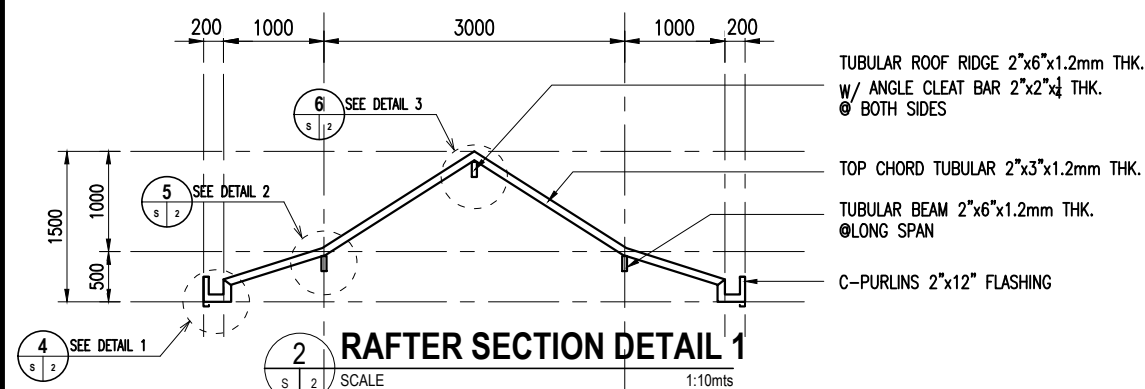
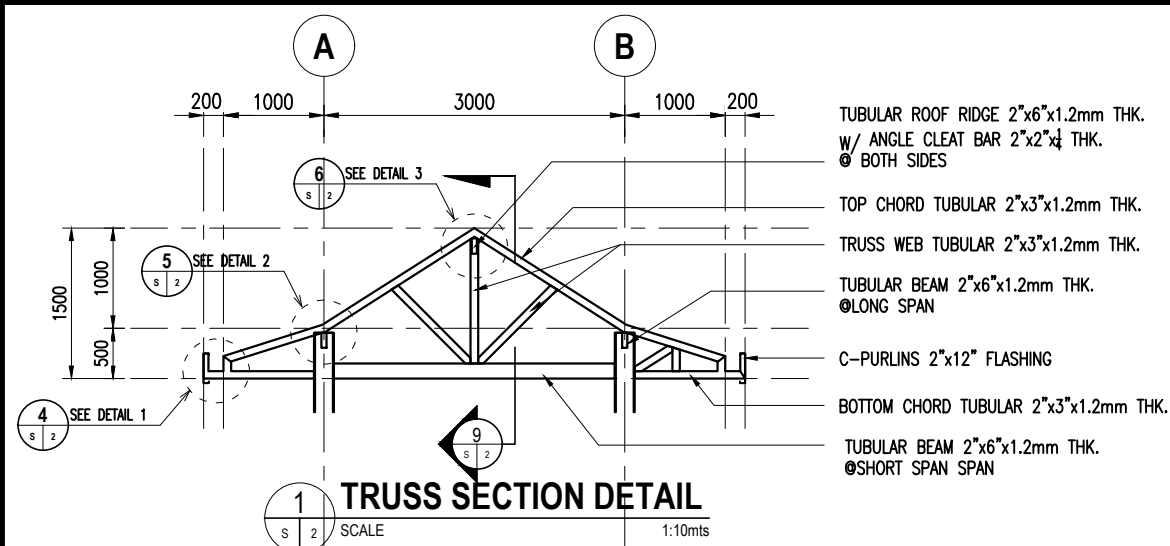
4 DECORATIVE STEEL DETAILS
SCALE 1:50mts

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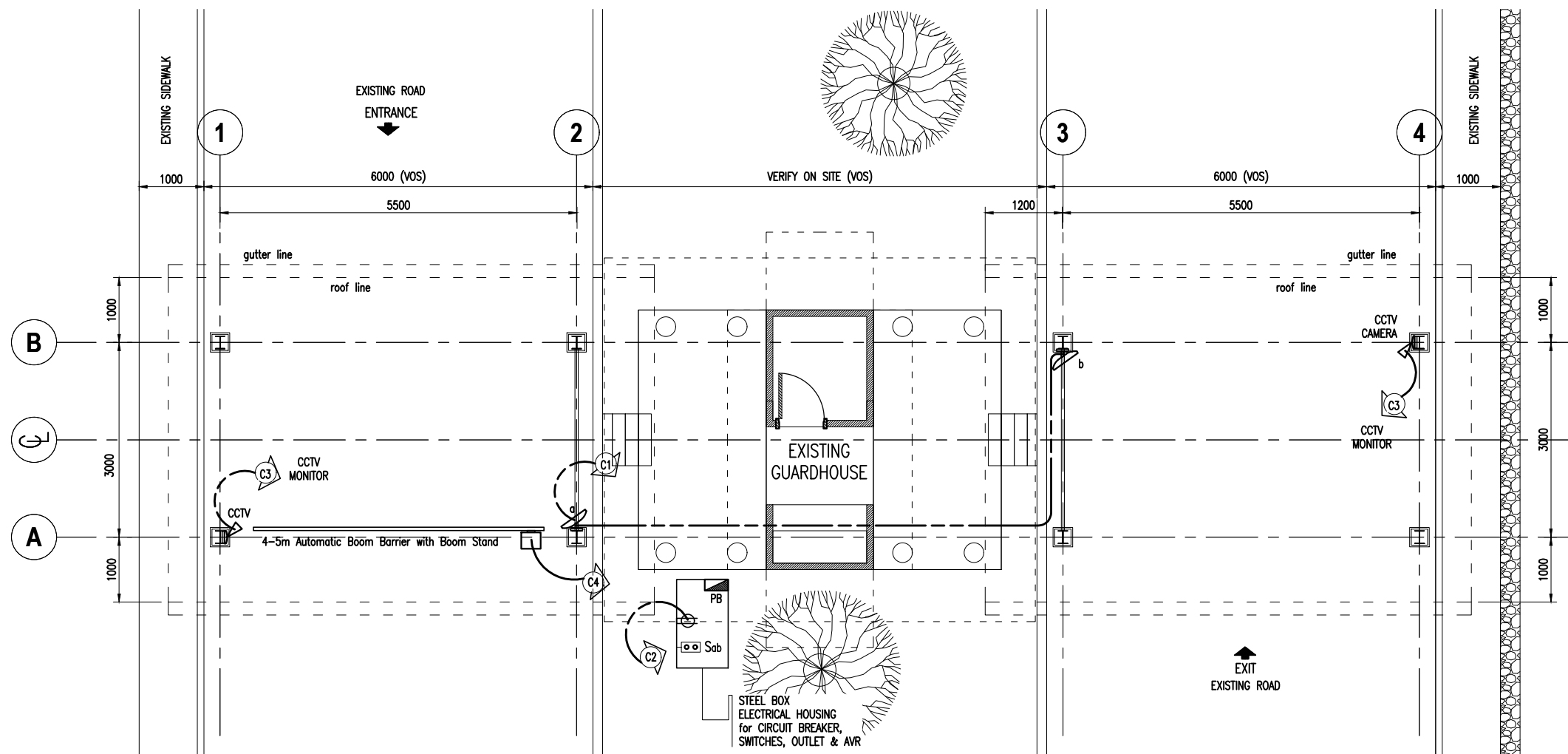


- GUTTER (SEE DETAILS)
- TUBULAR 2"x2"x1.2mm THK.
- I-BEAM POST 100mm x 150mm
- TUBULAR BEAM 2"x6"x1.2mm THK. @LONG SPAN
- C-PURLINS FLASHING 2"x12"x1.2mm THK.
- 6pcs-FLAT BAR 2"x5mmTHK. @ LONG SPAN
- TUBULAR ROOF RIDGE 2"x6"x1.2mmTHK. @LONG SPAN
- TUBULAR BEAM 2"x6"x1.2mmTHK. @LONG SPAN
- TUBULAR 2"x2"x1.2mm THK.
- TUBULAR ROOF RAFTER, 2"x3"x1.2mm THK.
- GUTTER (SEE DETAILS)

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GATE 2 INSPECTION BAY LIGHTING AND POWER LAYOUT

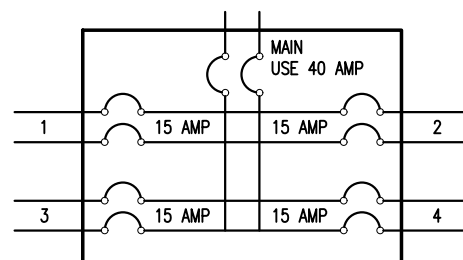
1
E 1

SCALE

1:70mts

ELECTRICAL LEGENDS :

- LIGHTING FIXTURE, LED LIGHTS
- CONVENIENCE OUTLET
- 3-GANG SWITCH
- EMERGENCY LIGHT, LED TYPE
- LIGHTING LINE
- LIGHTING LINE
- POWER LINE
- CIRCUIT
- PANEL



2
E 1

PANEL BOARD SCHEDULE

SCALE

NTS

LOAD SCHEDULE								
CIRCUIT NO.	LOAD DESCRIPTION	QTY	POWER (VA)	VOLTAGE (VOLTS)	CURRENT (AMP)	BREAKER RATING	WIRE SIZE (mm ²)	CONDUIT SIZE (mm)
1	LIGHTING	2	200	230	0.87	15 AMP	2.0	20 mm Ø
2	CONVENIENCE OUTLET	1	180	230	0.78	15 AMP	3.5	20 mm Ø
3	CCTV	2	500	230	2.17	15 AMP	3.5	20 mm Ø
4	BOOM BARRIER	1	SEE SPECIFICATION	230		15 AMP	3.5	20 mm Ø
	TOTAL							

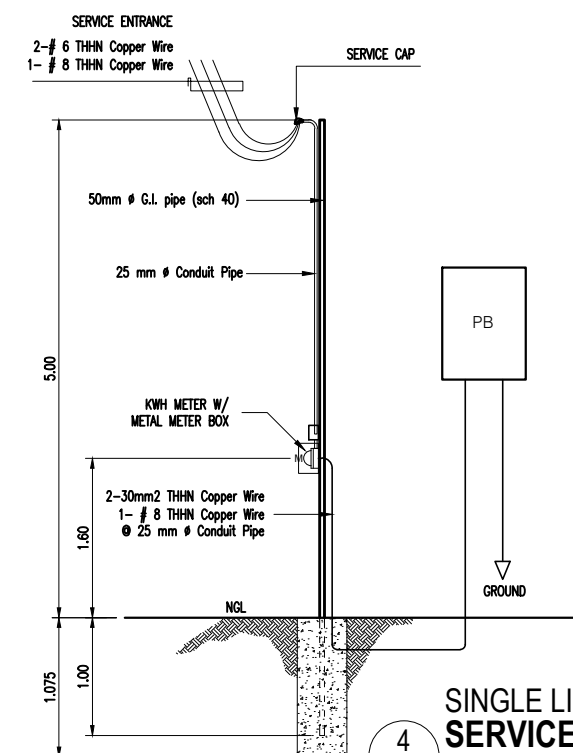
USE:
MAIN FEEDER CONDUCTOR 2 - #8.0 mm² THHN Stranded Copper Wire
GROUND CONDUCTOR 1 - #6.0 mm² THHN Stranded Copper Wire
MAIN DISCONNECT 40 Amperes, 2 pole, 250 Volt Circuit Breaker

3
E 1

LOAD SCHEDULE

SCALE

NTS



4
E 1

SINGLE LINE SERVICE ENTRANCE

SCALE

NTS

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JOHN HAY MANAGEMENT CORPORATION
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CAMP JOHN HAY

RECOMMENDED BY:
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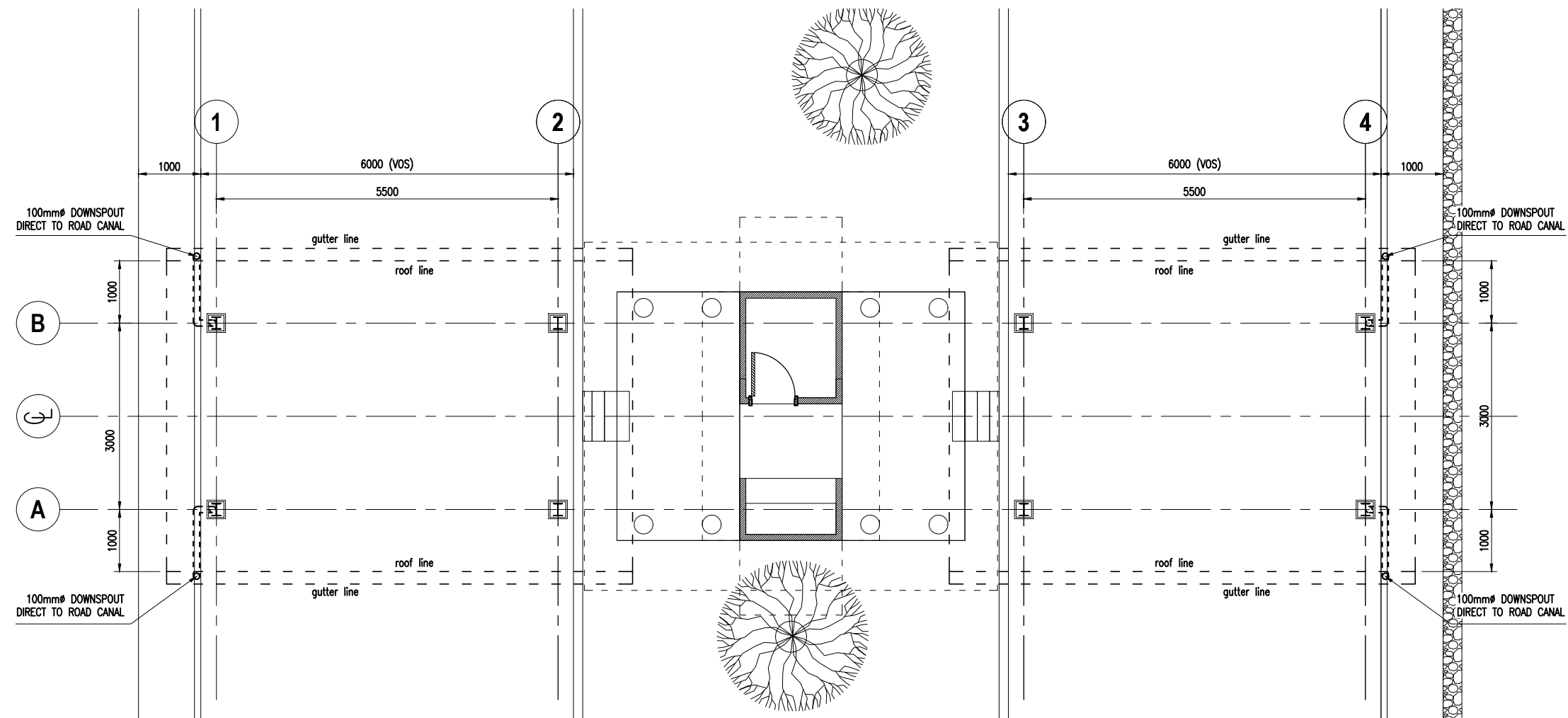
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E1



1
P 2

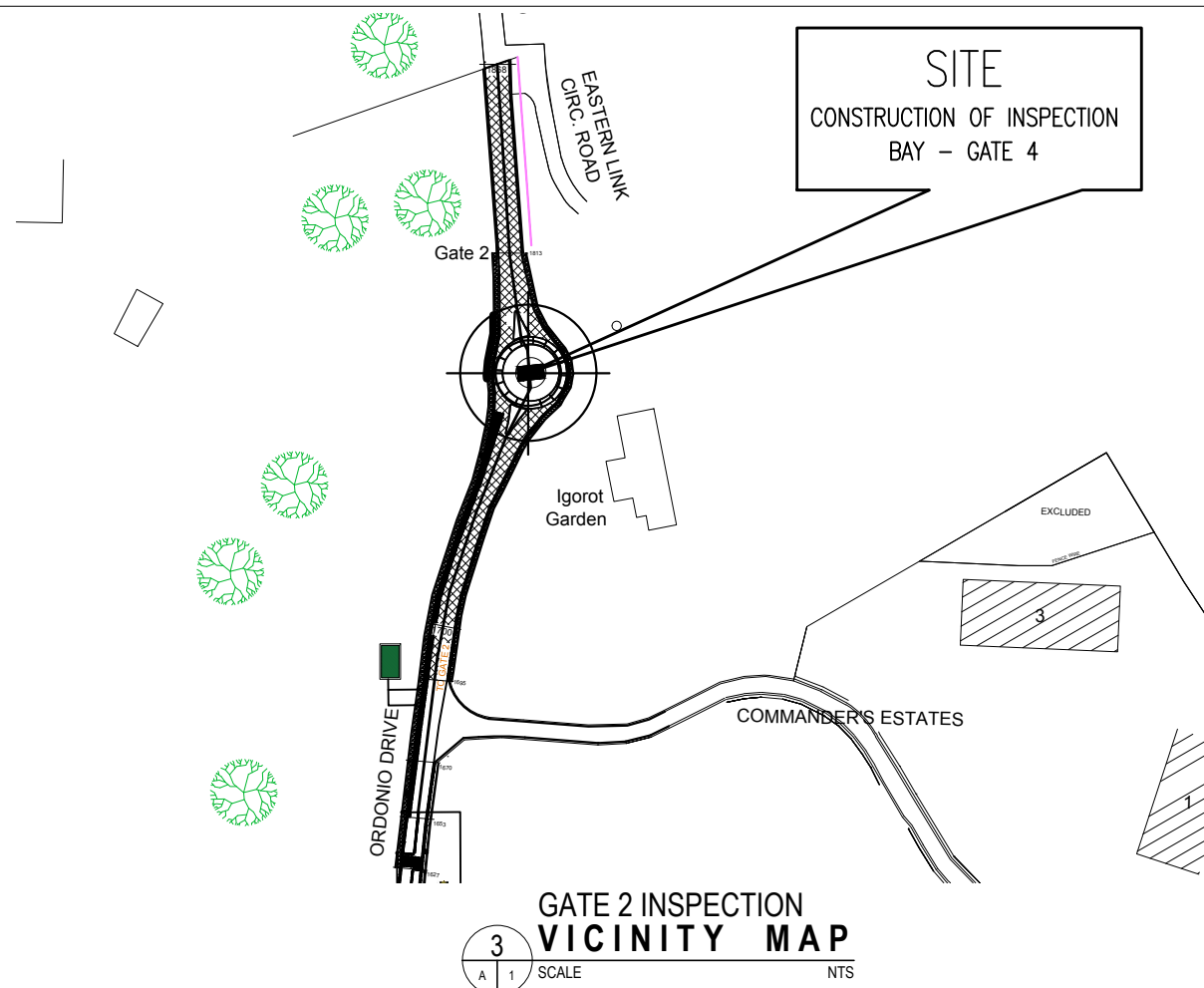
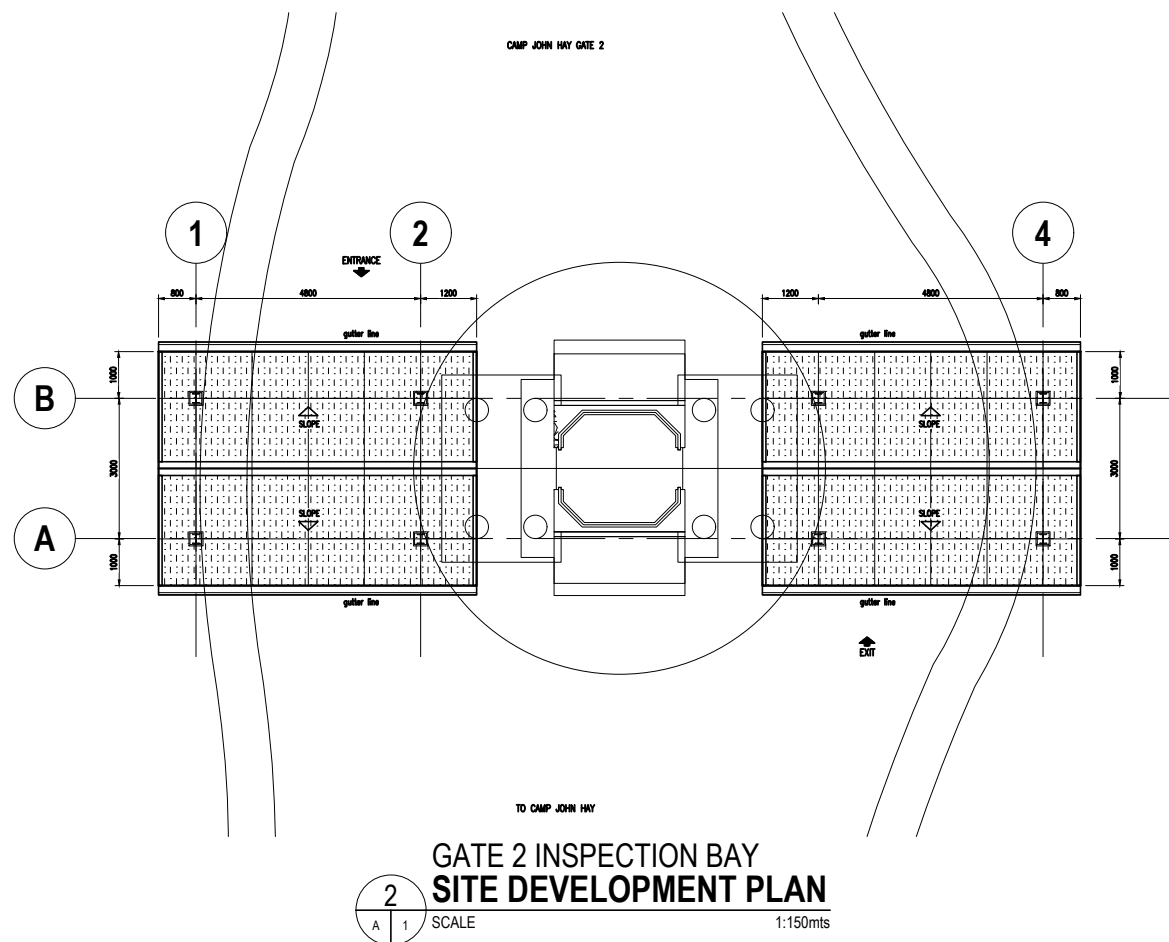
GATE 2 INSPECTION BAY STORM DRAINAGE LAYOUT

SCALE

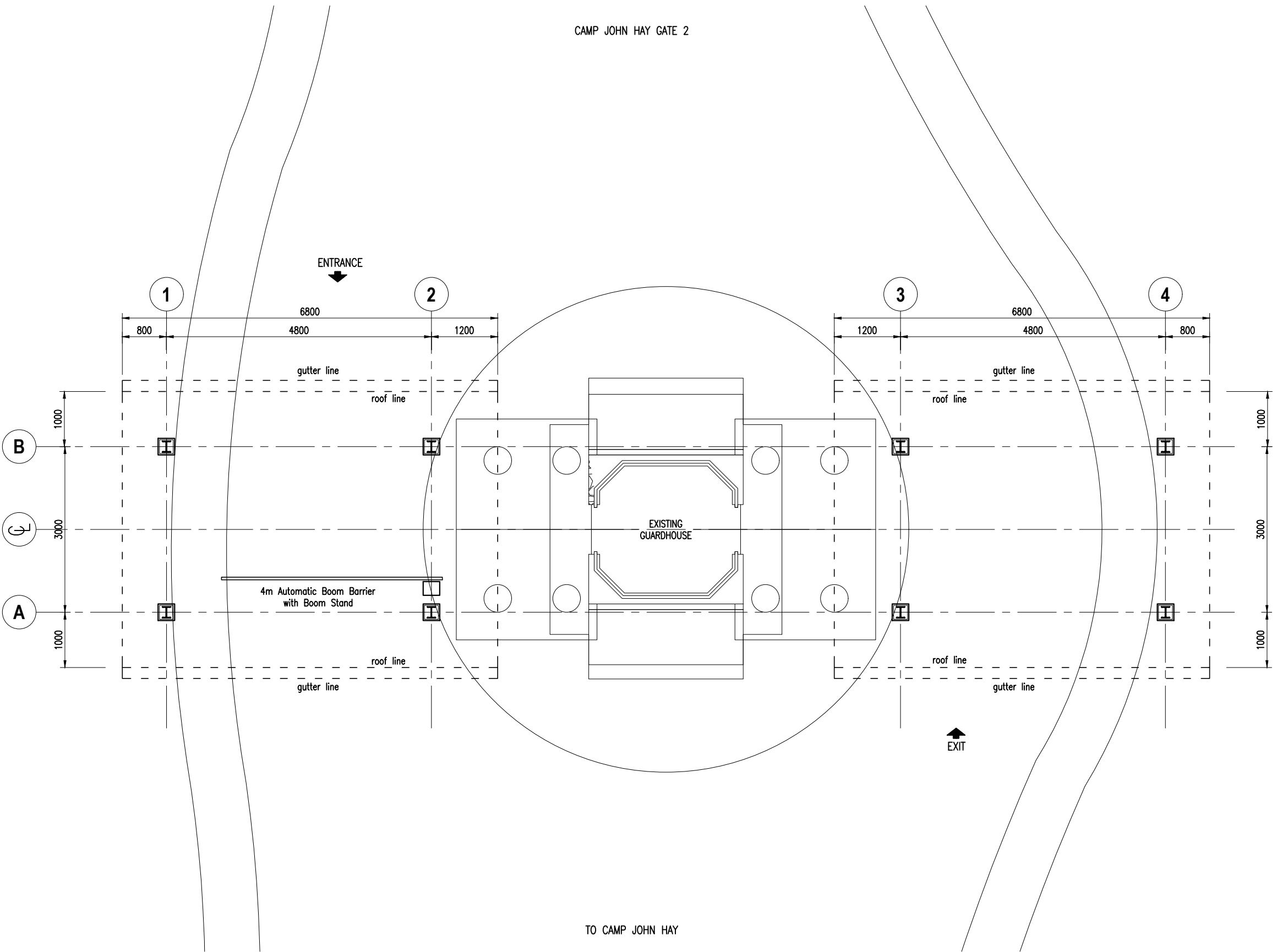
1:60mts

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GATE 2 INSPECTION BAY
P E R S P E C T I V E
1
A 1 SCALE



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TO CAMP JOHN HAY

1 **GATE 4 INSPECTION BAY PLAN**

A 2 SCALE 1:80mts

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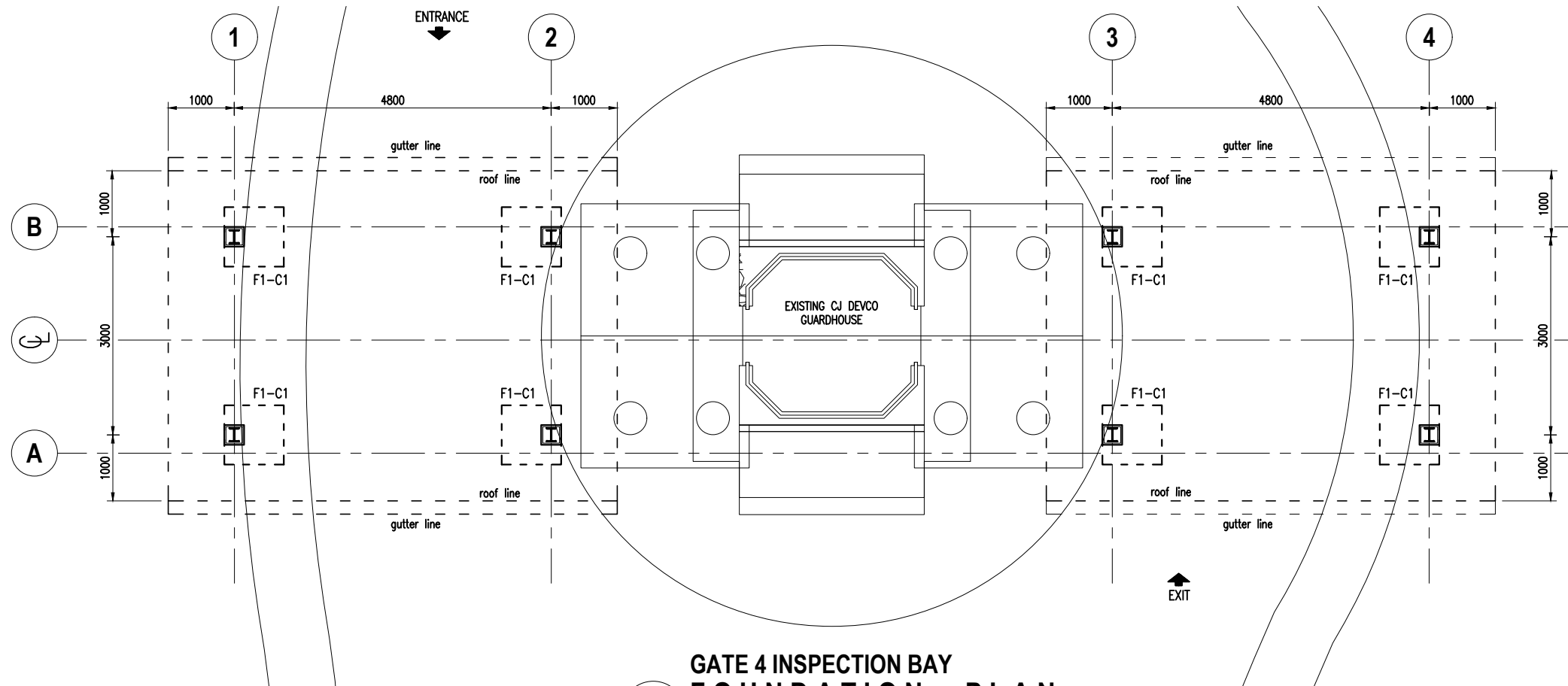
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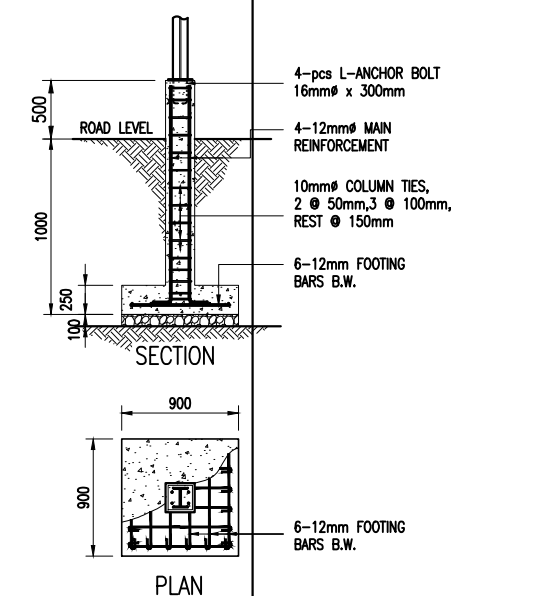
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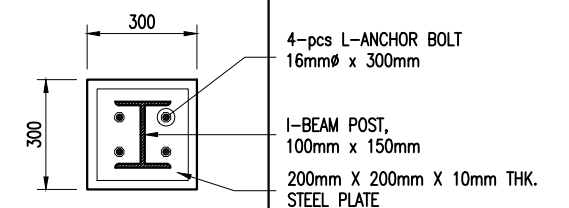




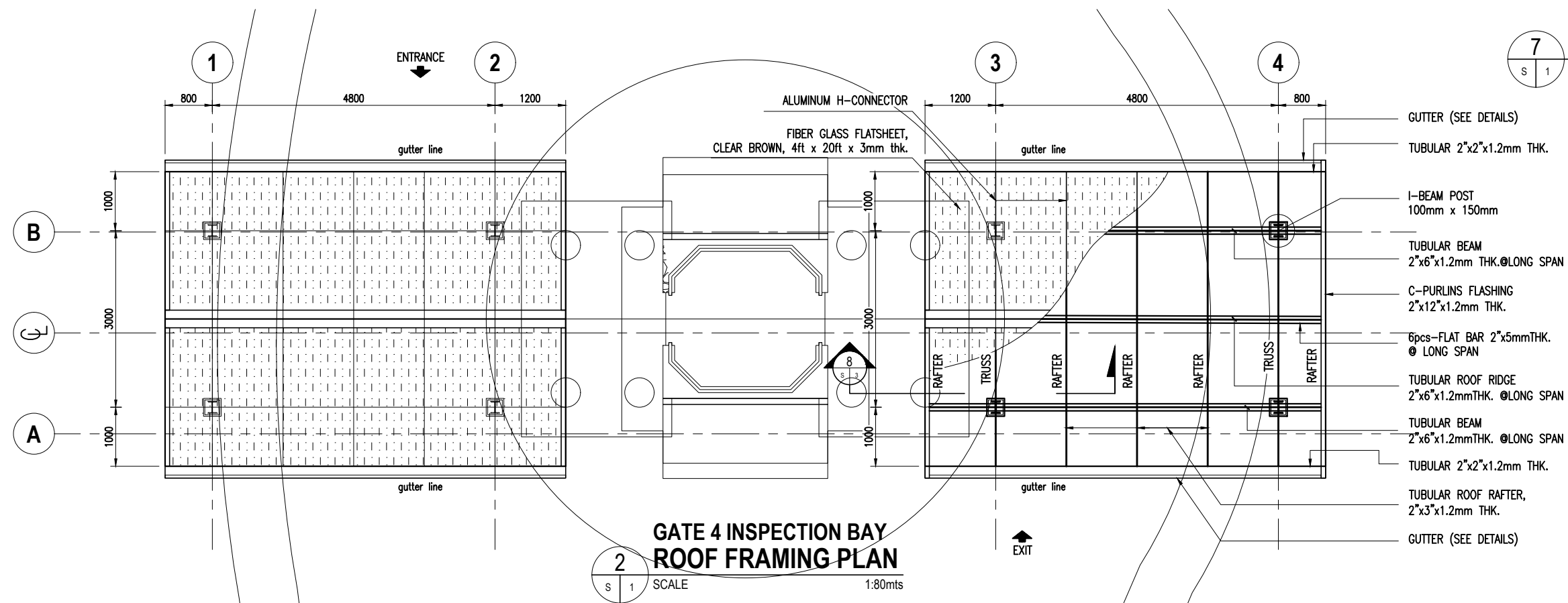
**GATE 4 INSPECTION BAY
FOUNDATION PLAN**
SCALE 1:80mts



5 COLUMN F1-C1
SCALE 1:60mts

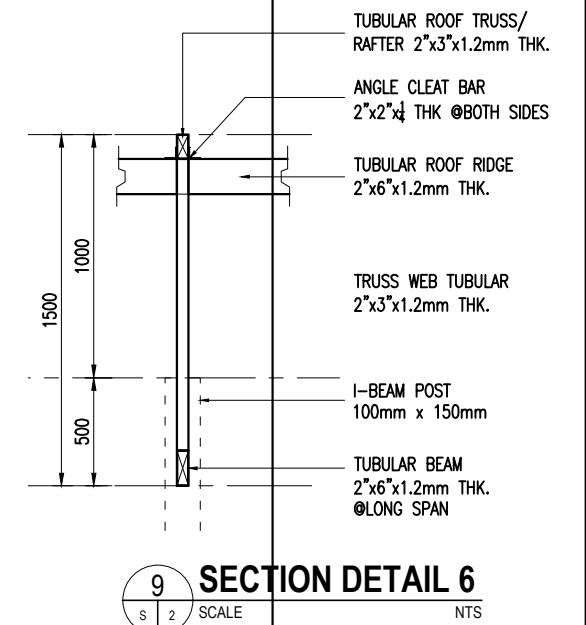
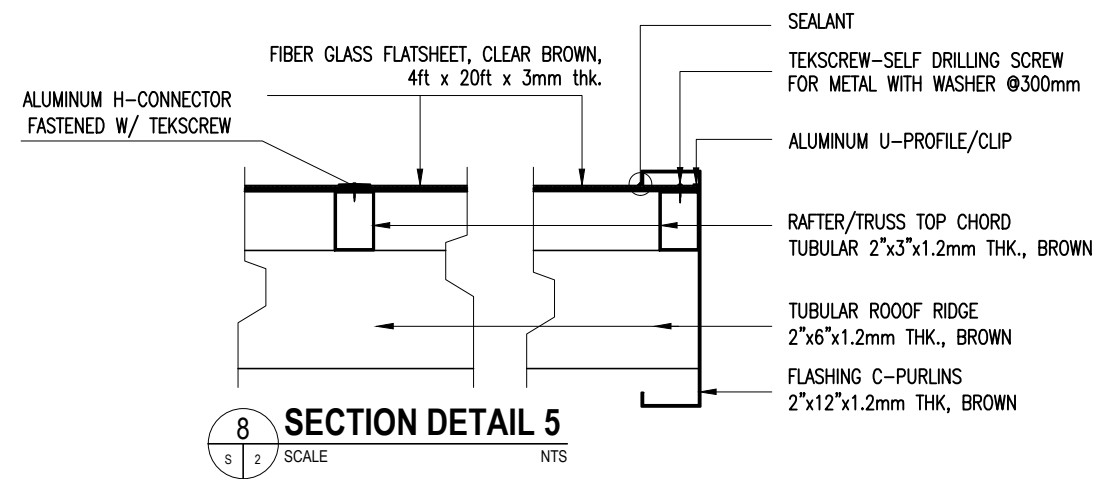
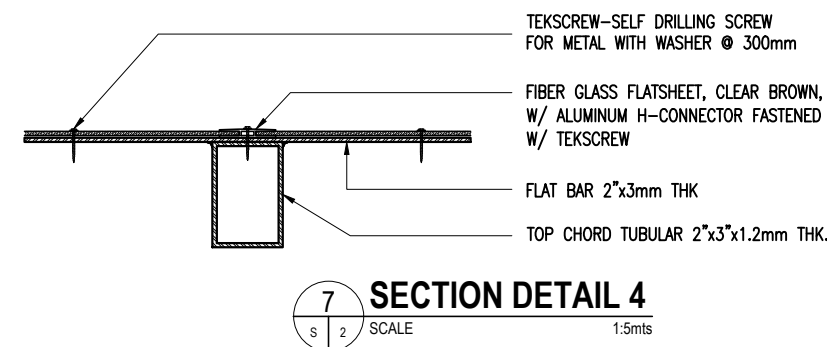
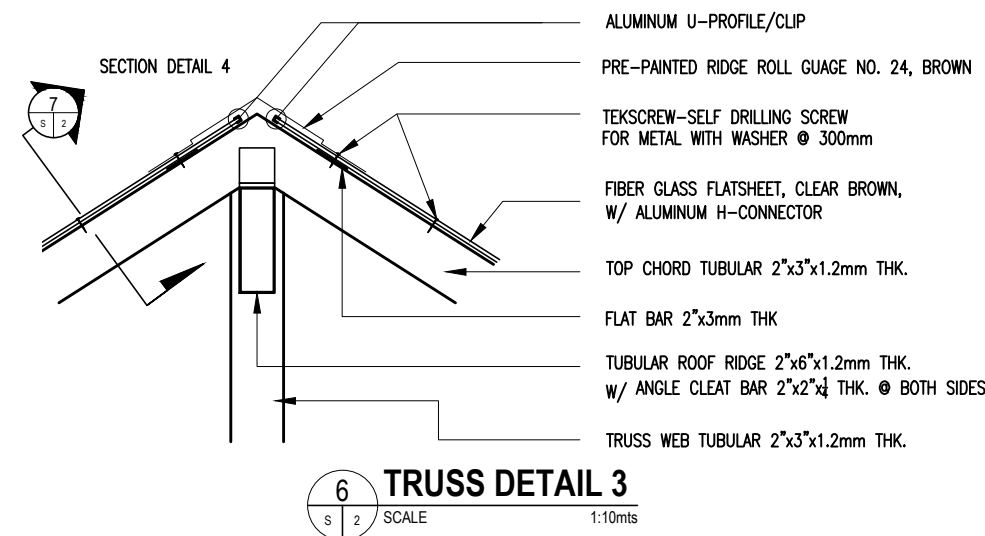
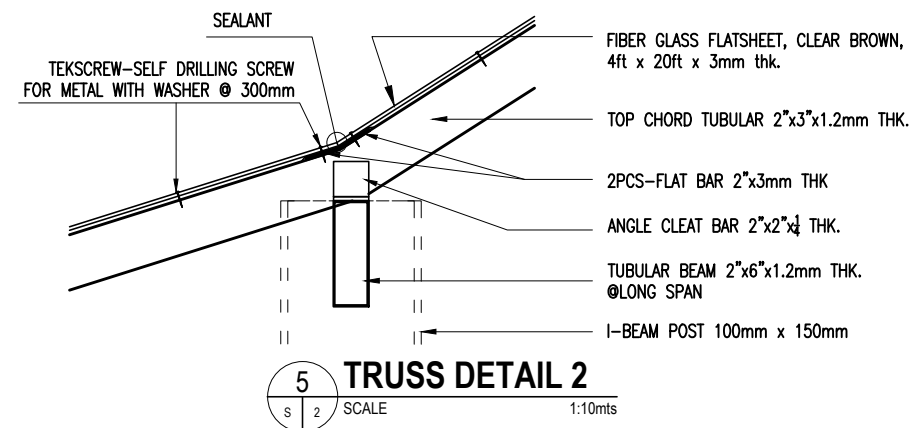
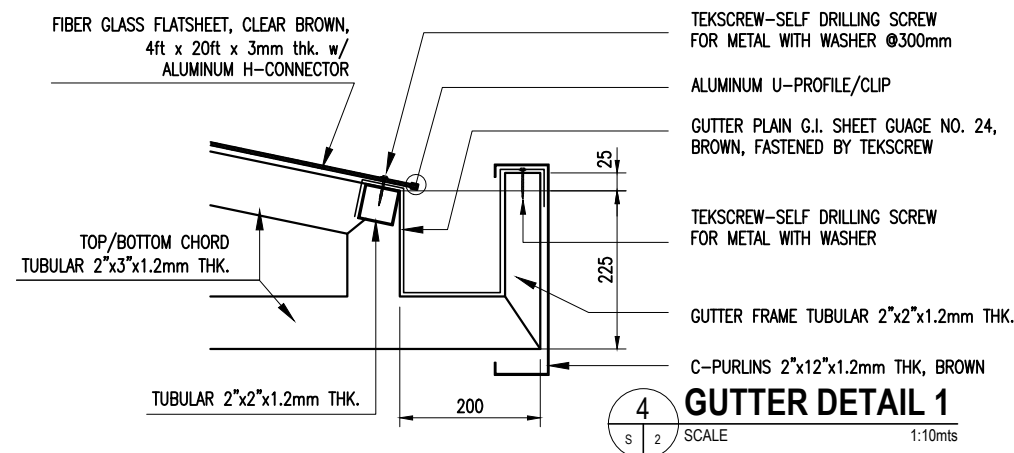
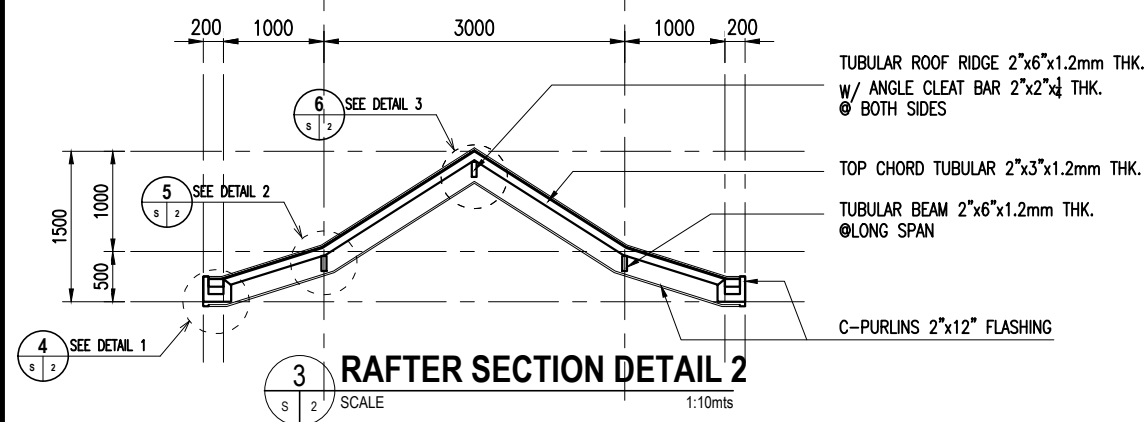
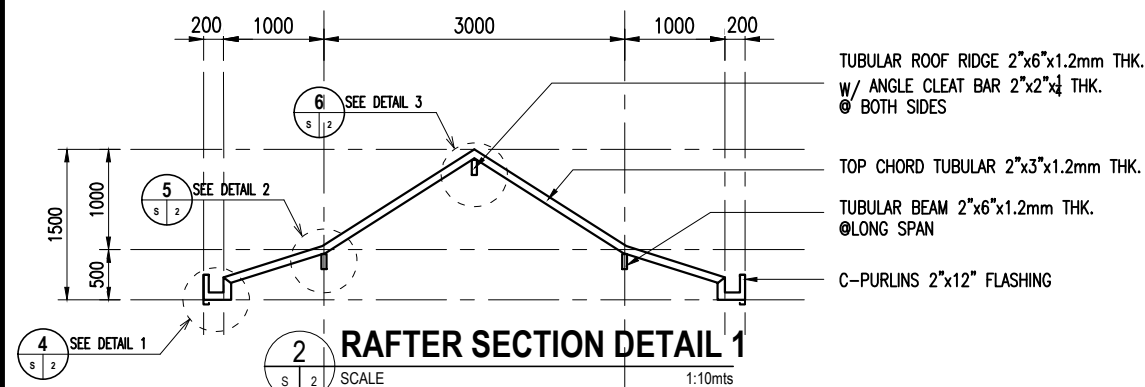
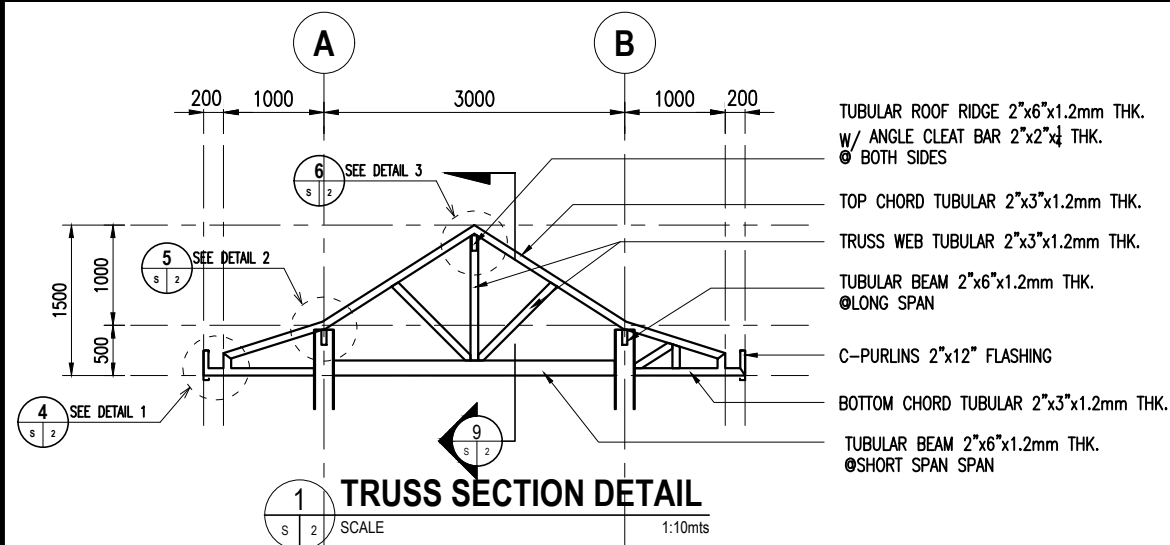


7 PEDESTAL-COLUMN CONNECTION
SCALE 1:16mts

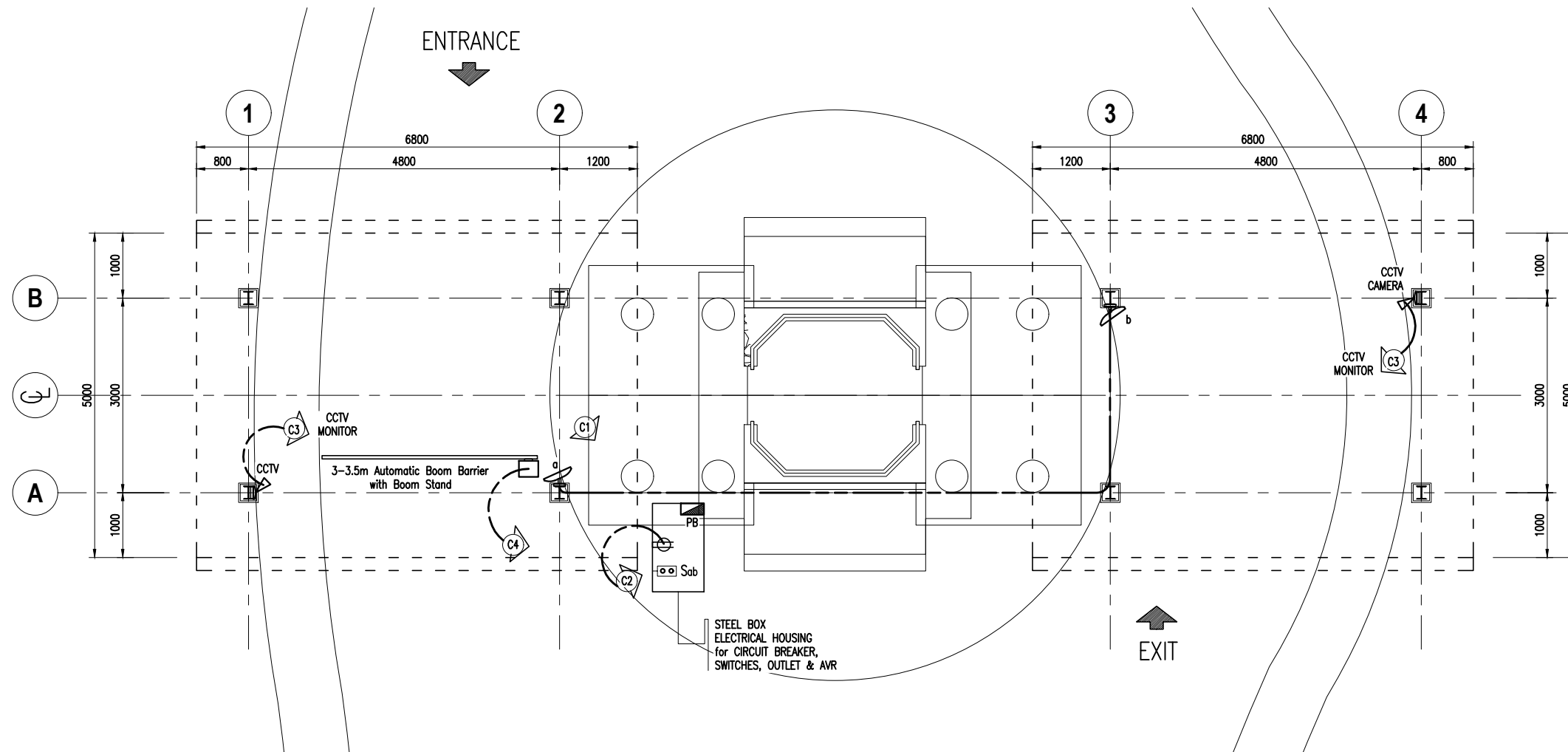


**GATE 4 INSPECTION BAY
ROOF FRAMING PLAN**
SCALE 1:80mts

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DRAFTED BY: ARCH. MARILOU C. DUCLAYAN	S1
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CHECKED & APPROVED BY:	
ARCH. LUZVIMINDA M. NIGOS-PANGANIBAN	
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ARCH. MARILOU C. DUCLAYAN	
DATE: 11 NOVEMBER 2020	S2
PAGE: 23/25	



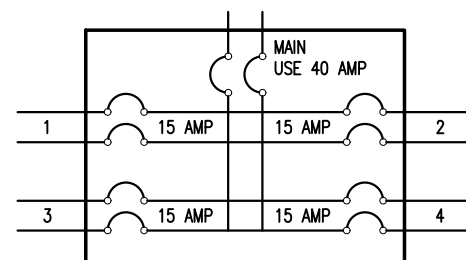
**GATE 4 INSPECTION BAY
LIGHTING AND POWER LAYOUT**

1
E 1

SCALE 1:70mts

ELECTRICAL LEGENDS :

- LIGHTING FIXTURE, LED LIGHTS
- CONVENIENCE OUTLET
- 3-GANG SWITCH
- EMERGENCY LIGHT, LED TYPE
- LIGHTING LINE
- LIGHTING LINE
- POWER LINE
- CIRCUIT
- PANEL



2 PANEL BOARD SCHEDULE

1
E 1

SCALE NTS

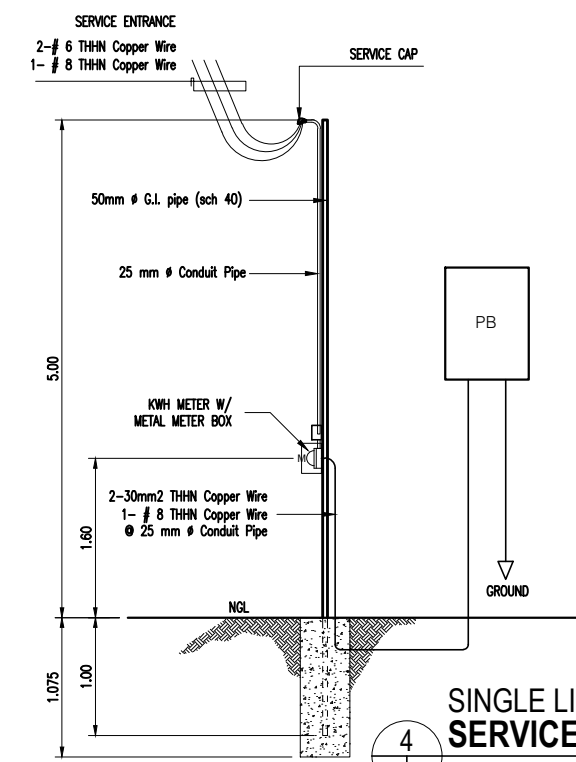
LOAD SCHEDULE								
CIRCUIT NO.	LOAD DESCRIPTION	QTY	POWER (VA)	VOLTAGE (VOLTS)	CURRENT (AMP)	BREAKER RATING	WIRE SIZE (mm ²)	CONDUIT SIZE (mm)
1	LIGHTING	2	200	230	0.87	15 AMP	2.0	20 mm Ø
2	CONVENIENCE OUTLET	1	180	230	0.78	15 AMP	3.5	20 mm Ø
3	CCTV	2	500	230	2.17	15 AMP	3.5	20 mm Ø
4	BOOM BARRIER	1	SEE SPECIFICATION	230		15 AMP	3.5	20 mm Ø
	TOTAL							

USE:
 MAIN FEEDER CONDUCTOR 2 - #8.0 mm² THHN Stranded Copper Wire
 GROUND CONDUCTOR 1 - #6.0 mm² THHN Stranded Copper Wire
 MAIN DISCONNECT 40 Amperes, 2 pole, 250 Volt Circuit Breaker

3 LOAD SCHEDULE

1
E 1

SCALE NTS



**4 SINGLE LINE
SERVICE ENTRANCE**

1
E 1

SCALE NTS

Republic of the Philippines
Office of the President

JHMC
JOHN HAY MANAGEMENT CORPORATION
a member of The BCDA Group

SHEET CONTENT:
AS SHOWN

PROJECT TITLE:
**RENOVATION OF GATES 1, 2, and 4
to INCLUDE INSTALLATION OF
INSPECTION BAY AREAS**

LOCATION OF PROJECT:
JOHN HAY SPECIAL ECONOMIC ZONE,
CAMP JOHN HAY

RECOMMENDED BY:
ENGR. BOBBY V. AKIA

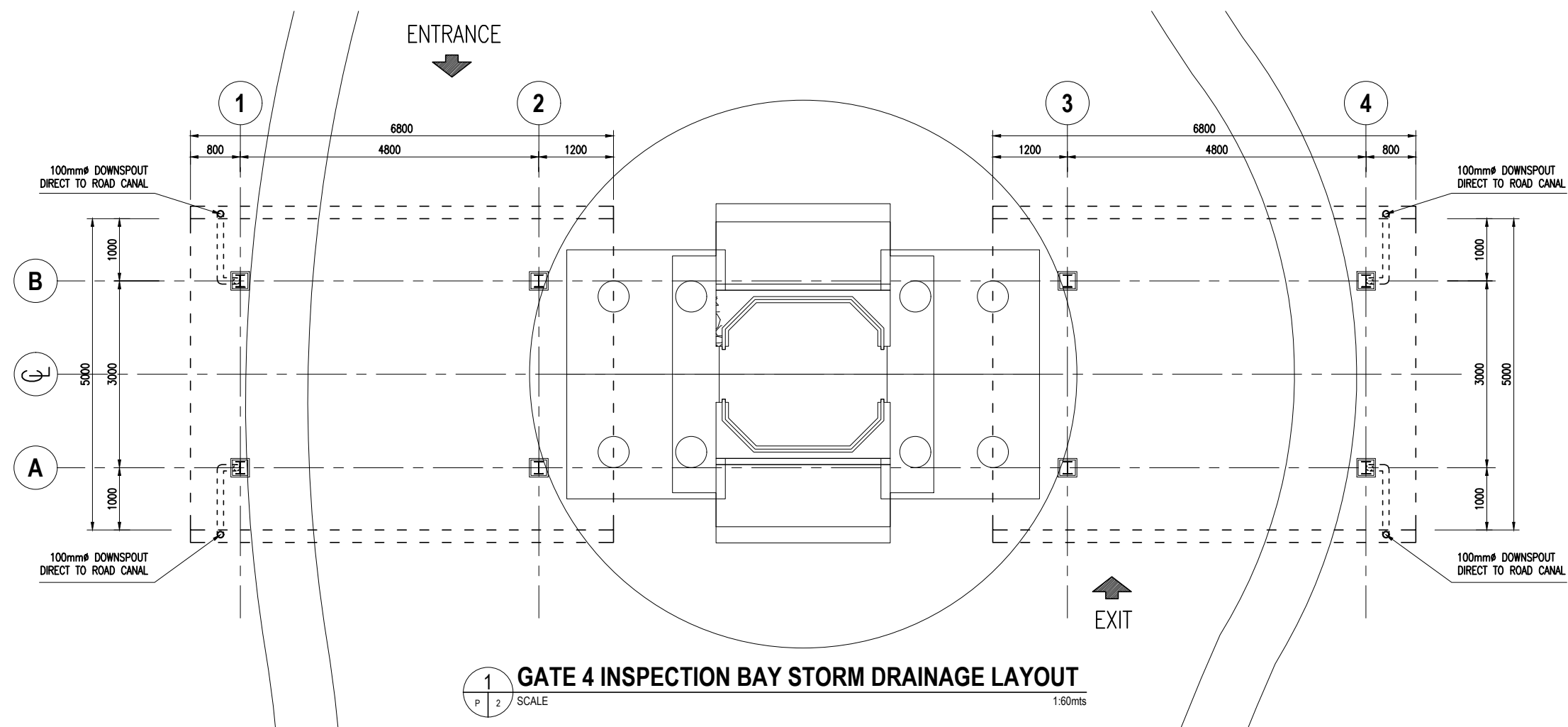
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E1



Republic of the Philippines Office of the President JHMC JOHN HAY MANAGEMENT CORPORATION a member of The BCDA Group	
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RENOVATION OF GATES 1, 2, and 4 to INCLUDE INSTALLATION OF INSPECTION BAY AREAS	
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JOHN HAY SPECIAL ECONOMIC ZONE, CAMP JOHN HAY	
RECOMMENDED BY:	
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