






















RESPONSE TO THE CONSULTANT'S DESIGN REVIEW COMMENTS						DATE		22.03, 2025				
PROJECT NAME: The Project of the New Port of Caio in Cabinda												
MAIN SUBJECT: RESPONSE TO CONSULTANT'S DESIGN REVIEW COMMENTS RAD-CRBC-136 DD MAIN GATE_SE20250314 (ARCH PART)						SECTION OF PROJECT		LOT 1 LOT 2 LOT 3 OTHERS <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>				
ROAD NETWORK	CIVIL	FIRE PROTECTION	ELECTRICAL	INSTRUMENT	STRUCTURAL	MECHANICAL PROCESS	HVAC	PLUMBING	GEOTECHNICAL	ESTIMATING	PROJECT	OTHER
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PREPARED BY: DESIGN TEAM OF CRBC CAIOPORT PROJECT MANAGEMENT						REVIEW DOCUMENT REF. & DATE OF THE CONSULTANT		RAD-CRBC-136 DD MAIN GATE_SE20250314 (ARCH PART)				
REVIEWER BY: Gao Changsheng / CHIEF ENGINEER OF CRBC CAIOPORT PROJECT MANAGEMENT						CONTRACTOR'S RESPONSE REF.		RAD-CRBC-136A DETAIL DESIGN OF MAIN GATE				
COMMENT NUMBER	DRAWING, SPECIFICATION, OR PAGE NUMBER	CONSULTANT'S COMMENT & CONTRACTOR'S RESPONSE				A	AGREED			CONTRACTOR'S ACTION		
						C	CLARIFICATION					
						S	SUBMIT SUPPLEMENTARY INFO LATER					
						E	EXCEPTION					
1		General										
	LOT1_DD_1020-A-00	GENERAL COMMENT FOR ALL DESIGN DRAWINGS - Please refer and address the comments from RAD.CRBC-144 DD Workshop SE20250228 (ARCH Part) and L1 SE CCD00123 RAD144 20250228 and subsequent buildings replies Add coordination plans for all the utilities and details for different utilities crossings, heights, dimensions, position of final fixtures, etc Add details of utilities penetrations in the walls (heights, dimensions, etc); Add on the floor plan position of different vertical utilities, dimensions, details, etc; - Please align with SERIES 0300, 3300 and 3400 requirements Response: Accepted. The drawings have been deepened with SERIES 0300, 3300 and 3400 requirements. The drawings related to utilities (such as the coordination plans for all the utilities and details for different utilities crossings, heights, etc, details of utilities penetrations in the walls (heights, dimensions, etc)) have been provided 1. - All changes in the next resubmission shall be marked with a cloud. Response: Accepted. All changes have been marked with a cloud.				A						
	LOT1_DD_1020-A-01	for the sector, refer to the comments of structural engineer/Sellhorn Response: Accepted. All this engineering practice have been confirmed with structural. The explanation have been added.				A						

		<p>NOTES:</p> <p>1. THE OUTBOUND’S ABSOLUTE ELEVATION OF ± 0 IS 6.52M; THE INBOUND’S ABSOLUTE ELEVATION OF ± 0 IS 5.82M</p> <p>2. ACCORDING "GEOTECHNICAL INVESTIGATION REPORT FOR MAIN GATE AND FREE ZONE AREA WORKS OF THE CAIO NEW PORT PROJECT IN ANGOLA" APPENDIX : B-2. THE HIGHEST ASTRONOMICAL TIDE LEVEL OF OUTBOUND AREA IS 3.00M, THE LOWEST POINT ELEVATION OF OUTBOUND IS 6.42M, AND THE THICKNESS OF THE GROUND CONSTRUCTION METHOD IS 250MM, WITH A DIFFERENCE OF 3.17M BETWEEN THE TWO.THE HIGHEST ASTRONOMICAL TIDE LEVEL OF INTBOUND AREA IS 1.40M, THE LOWEST POINT ELEVATION OF OUTBOUND IS 5.69M, AND THE THICKNESS OF THE GROUND CONSTRUCTION METHOD IS 250MM, WITH A DIFFERENCE OF 4.04M BETWEEN THE TWO. THE GROUND CUSHION LAYER IS MUCH HIGHER THAN THE GROUNDWATER LEVEL LINE .</p> <p>3.THE MAIN STEEL ELEMENTS (SUCH AS STEEL COLUMNS. STEEL BEAMS. ROOF PURLINS. WALL PURLINS...) SHOULD BE DERUSTED IN THE FACTORY. THE STEEL COMPONENTS OF THE BUILDING AND THE EXPOSED METAL COMPONENTS OF THE BUILDING ALL MEET THE C5 ANTI-CORROSION REQUIREMENTS. THE NDFT OF THE ANTI-CORROSION PAINT SHOULD BE ≥ 240μm, INCLUDING 70μm OF PRIMER, 70μm OF INTERMEDIATE COATING, AND 100μm OF FINAL COAT.</p> <p>4.ALL GALVANIZING WORKS WHERE SPECIFIED SHALL BE HOT-DIP GALVANIZED AND SHALL CONFORM TO THE REQUIREMENTS OF EN ISO 1461:2009. THE MINIMUM COATING THICKNESS IS 85μm.</p> <p>5.THE DETAILED ROOFING SYSTEM (SOLAR PANELS SUPPORTS INCLUDED) WILL BE PREPARED AND DETAILED BY THE SUPPLIER,AND ITS METAL COMPONENTS SHOULD MEET THE C5 CORROSION RESISTANCE REQUIREMENTS, WITH THICKNESS OF ANTI-CORROSION PAINT NDFT ≥ 240μm, INCLUDING 70μm OF PRIMER, 70μm OF INTERMEDIATE COATING, AND 100μm OF FINAL COATING, FASTENERS SHOULD BE EFFECTIVELY SECURED AND FIRMLY FIXED. THE WATERPROOF LEVEL AND PERFORMANCE OF SEALING COMPONENTS OF SOLAR SUPPORTS SHOULD BE CONSISTENT WITH THAT OF THE ROOF, AND THE ORIGINAL WATERPROOF SYSTEM SHOULD NOT BE DAMAGED.</p> <p>6.THE RAINWATER PIPE IS MADE OF GALVANIZED STEEL, THE DRAWINGS WILL BE PREPARED AND DETAILED BY THE SUPPLIER. THE ANTI-CORROSION PERFORMANCE SHOULD BE C5 GRADE, AND THE COMPONENT ANTI-CORROSION PAINT NDFT THICKNESS SHOULD BE ≥ 240μm, INCLUDING 70μm OF PRIMER,70μm OF INTERMEDIATE COATING, AND 100 μm OF FINAL COATING. THE RAINWATER PIPE CLAMP IS MADE OF METAL AND CAN FIRMLY FIX THE RISER WITH A SPACING OF LESS THAN 1,500MM.</p> <p>7.STEEL COMPONENTS SUCH AS ROOF PURLINS AND STRUCTURAL BEAMS FOR STEEL STRUCTURES OF THE BUILDING WILL BE FINALIZED BY THE SUPPLIER IN THE FORM OF MANUFACTURING DRAWINGS AND CONFIRMED BY THE CONSULTANT BEFORE PURCHASE ORDERS CAN BE PLACED AND CONSTRUCTION CAN COMMENCE.</p> <p>8. THE SANITARY WARES AND EQUIPMENT IN THE KITCHEN AND BATHROOM SHALL BE DETERMINED BY THE MANUFACTURER IN THE FORM OF SHOP DRAWINGS, INCLUDING THE CHARACTERISTICS OF THE MATERIALS IN TERMS OF DURABILITY, IMPACT RESISTANCE, WATER RESISTANCE, CHEMICAL RESISTANCE AND FIRE RESISTANCE.</p>																	
	LOT1_DD_1020-A-02	<p>LEGENDS:Fencing/Weight bridge</p> <p>Response: Accepted.</p> <table><tr><th colspan="2">LEGENDS :</th></tr><tr><td></td><td>MAIN GATE</td></tr><tr><td></td><td>VEGETATION</td></tr><tr><td></td><td>SIDEWALK</td></tr><tr><td></td><td>PEBBLE PAVING</td></tr><tr><td></td><td>COVERED WALKWAY</td></tr><tr><td></td><td>FENCING</td></tr><tr><td></td><td>WEIGHT BRIDGE</td></tr></table>	LEGENDS :			MAIN GATE		VEGETATION		SIDEWALK		PEBBLE PAVING		COVERED WALKWAY		FENCING		WEIGHT BRIDGE	A
LEGENDS :																			
	MAIN GATE																		
	VEGETATION																		
	SIDEWALK																		
	PEBBLE PAVING																		
	COVERED WALKWAY																		
	FENCING																		
	WEIGHT BRIDGE																		
	LOT1_DD_1020-A-03	<p>1. All traffic protection system to be detailed</p> <p>Response: Accepted.It has already been supplemented in No.5</p>	A																

Details in LOT1_DD_1020-A-11-2.

2.- coordinate the rainwater dropdown pipes with LOT1_DD_1020-A-04

- detail the system

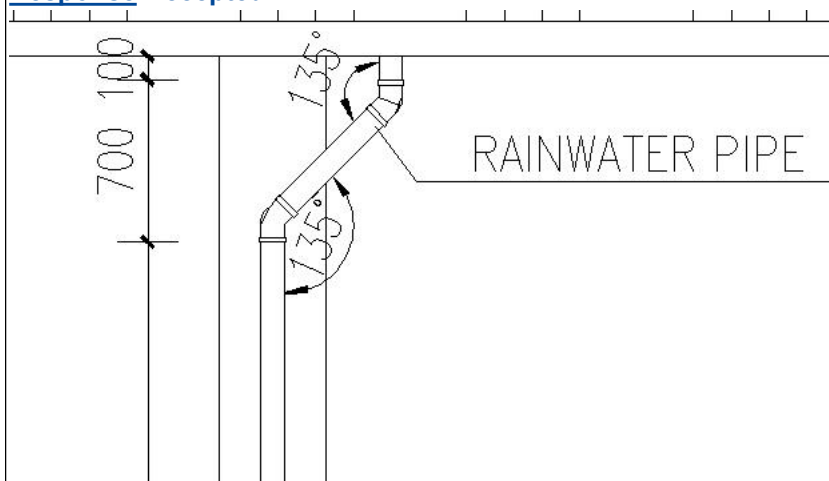
Response:Accepted.Rainwater system have already been supplemented.

- add the weighing bridge in the sections

Response: Clarification, Weight bridge will be finalized by the supplier in the form of manufacturing drawings and confirmed by the consultant before purchase orders can be placed and construction can commence.

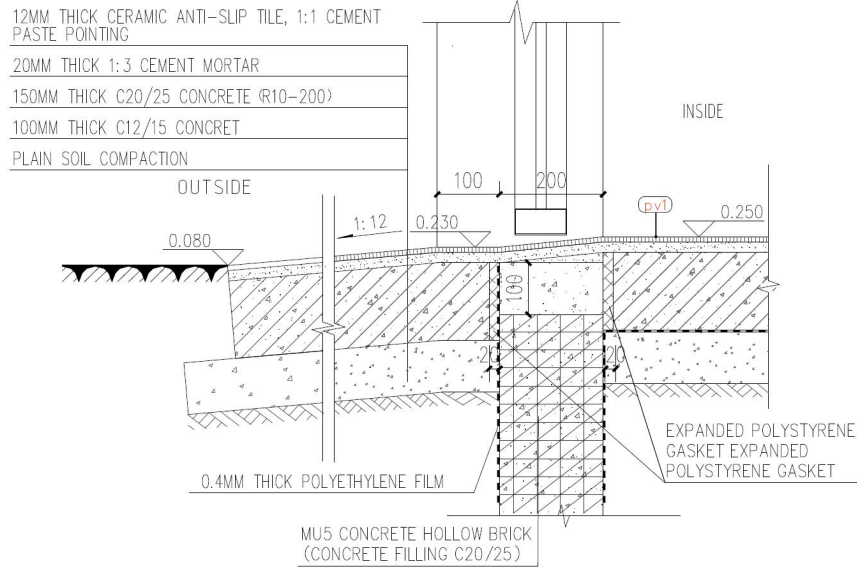
- add details

Response:Accepted.



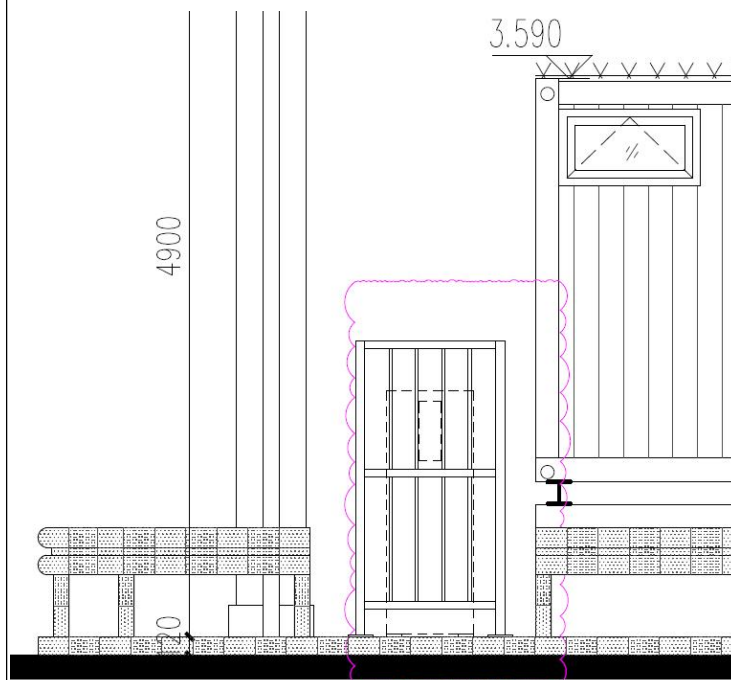
2. ramp detail?

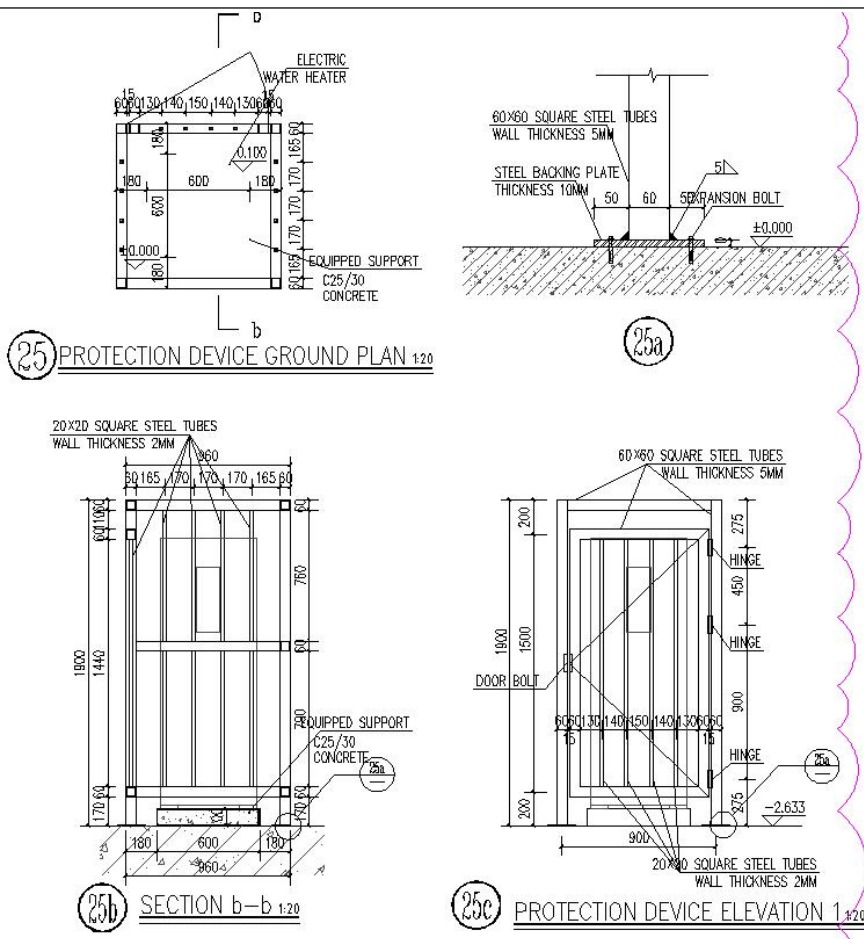
Response: Accepted.The ramp details have already been supplemented.



4. Water heaters? Supports, protection, details?

Response: Accepted. The water heaters and details have already been supplemented. And Reserve Water heaters refer to Plumbing drawings.

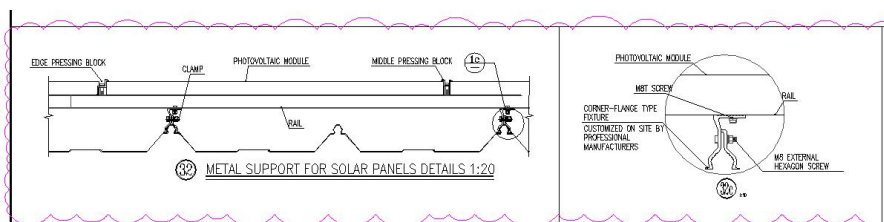




1.Details for photovoltaic system:supports/dimensions/penetration sealing

Response: Clarification, The drawings of metal support for solar panels will be prepared and detailed by the supplier, and its metal components should meet the c5 corrosion resistance requirements, with thickness of anti-corrosion paint $\geq 240 \mu\text{m}$. Fasteners should be effectively secured and firmly fixed. The waterproof level and performance of sealing components of solar supports should be consistent with that of the roof, and the original waterproof system should not be damaged.

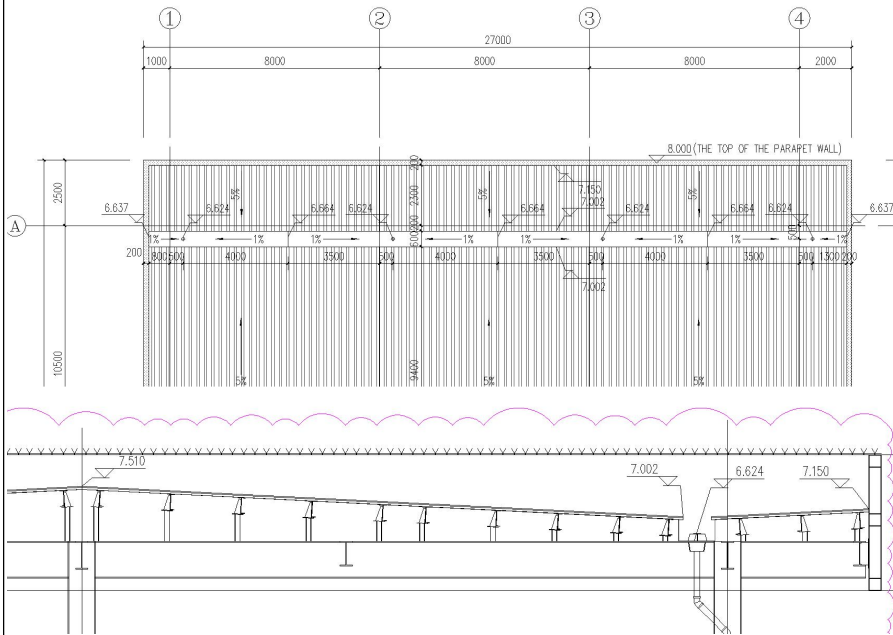
LOT1_DD_1020-A-04



A

2.Dimensions? Elevations? (please refer to all relevant elements not only to the indicated ones)

Response: Accepted.Dimensions and Elevations and have already been supplemented in “DRAINAGE OUTBOUND PLAN” LOT1_DD_1020-A-04-1 and “SECTION 1-1”



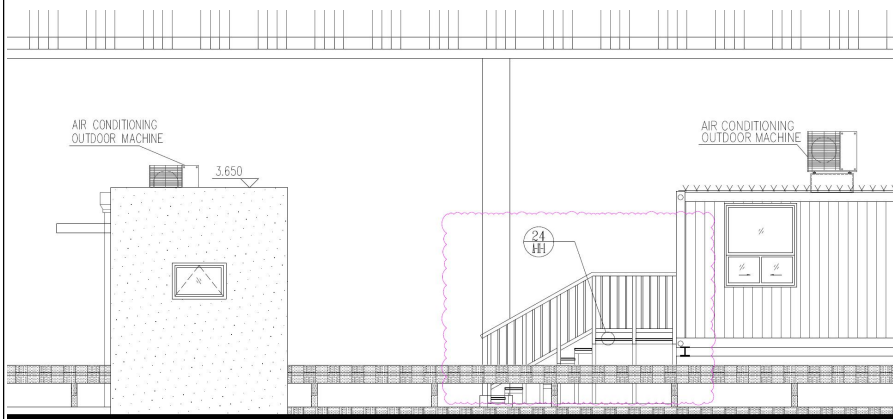
1.rainwater pipes?

Response: Accepted.Rainwater pipe have already been revised.

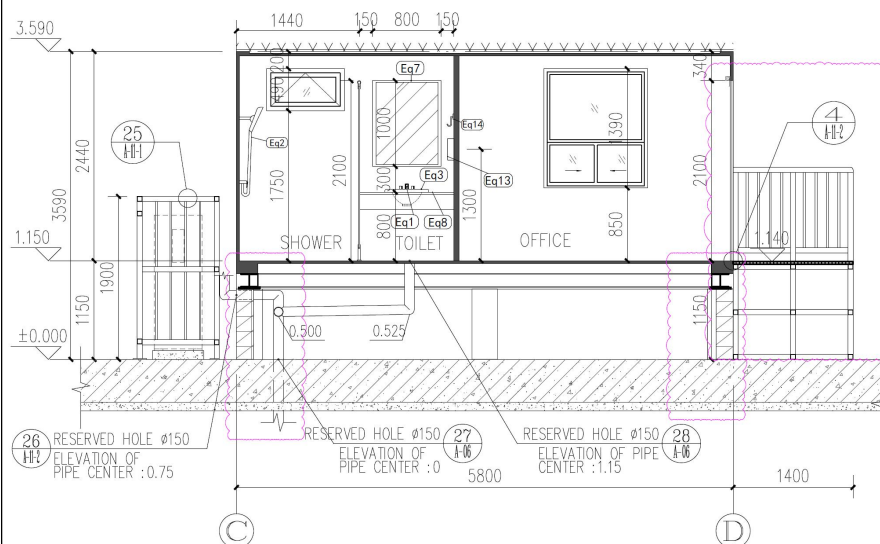
2.AC unit? details,penetrations, sealing?

Response: Accepted.AC unit details have already been supplemented. And Reserve pipeline hole refer to hvac drawings.

LOT1_DD_
1020-A-05



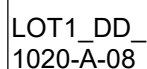
A



Response: Accepted.It has already been supplemented.In
“ENGINEERING PRACTICE TABLE(STEEL SHED AND OFFICE
CONTAINER) ” of LOT1 DD 1020-A-01

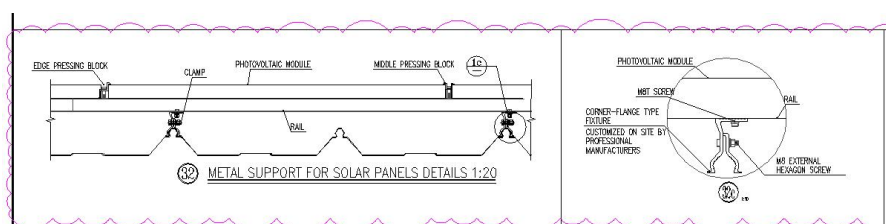
BLACK (RAL9004) AND YELLOW (RAL1003)
SIGNALING PAINT,
EACH COLOR IS SPACED 20CM APART.

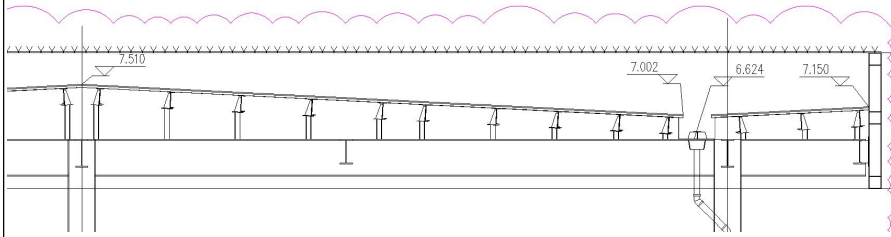
Response: Accepted.Dimensions and Elevetions and have already been supplemented in “DRAINAGE OUTBOUND PLAN”
LOT1 DD 1020-A-04-1 and “SECTION 1-1”



2.Details for pfotovoltaic system:supports/dimensions/penetration sealing

Response: Clarification, The drawings of metal support for solar panels will be prepared and detailed by the supplier, and its metal components should meet the c5 corrosion resistance requirements, with thickness of anti-corrosion paint ndft $\geq 240 \mu\text{m}$. Fasteners should be effectively secured and firmly fixed. The waterproof level and performance of sealing components of solar supports should be consistent with that of the roof, and the original waterproof system should not be damaged.

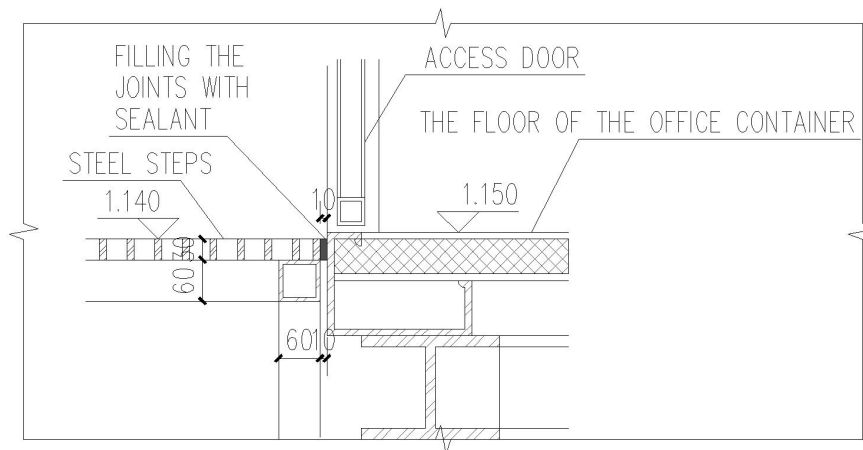




further comments will be given when the final drawings will be submitted

1. threshold detail missing

Response: Accepted.It has already been supplemented.



LOT1_DD_1020-A-011

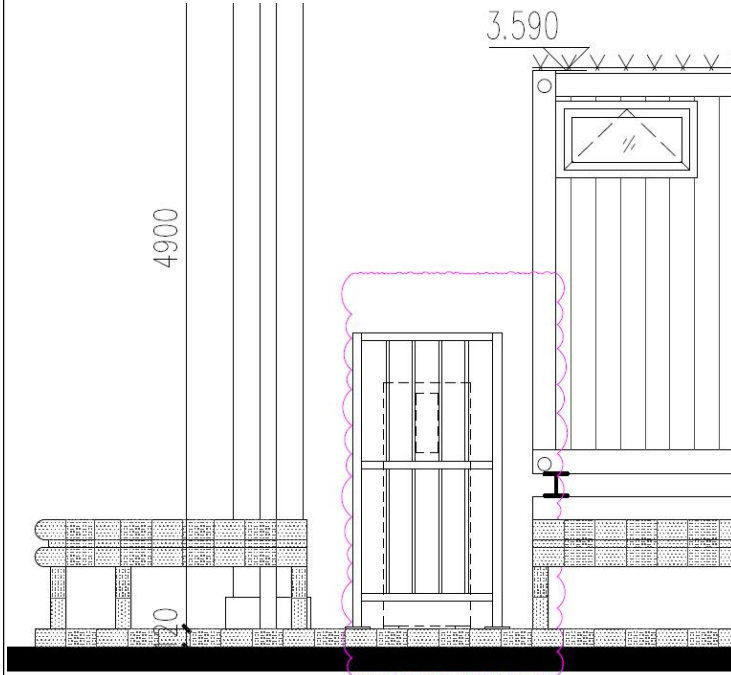
A

2. details?

Response:Clarification, AC unit details have already been supplemented.Reserve pipeline hole refer to hvac drawings

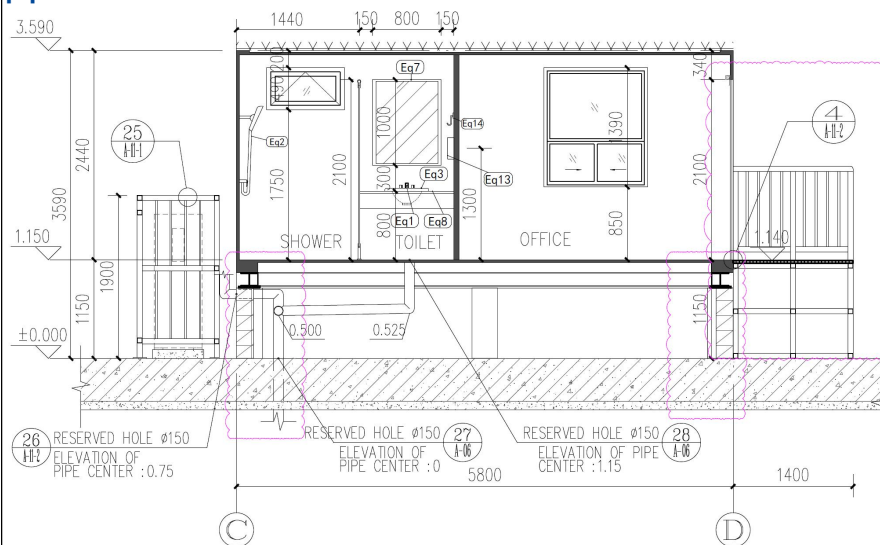
3. water heater?

Accepted.The water heaters and details have already been supplemented. And Reserve Water heaters refer to Plumbing drawings.



4.protection/concealing?

Response:Accepted.Build walls on all four sides to protect the pipes.

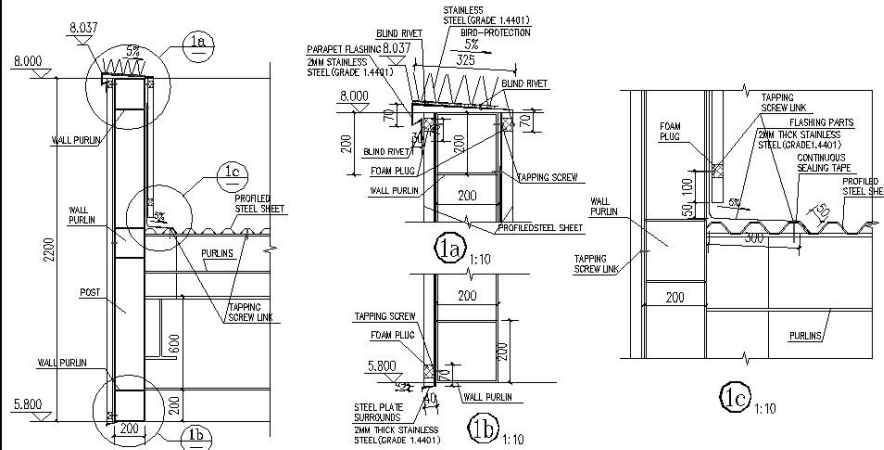


LOT1_DD_
1020-A-13

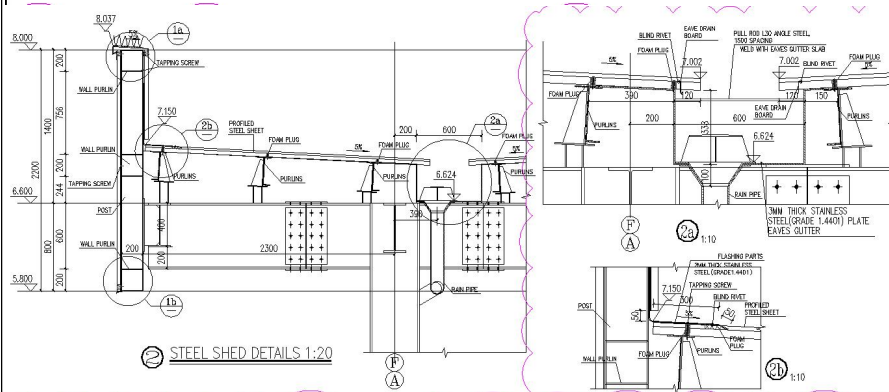
1. The details are general and not sufficient for this level of design

Response: Accepted.Supplement the detailed drawing information.

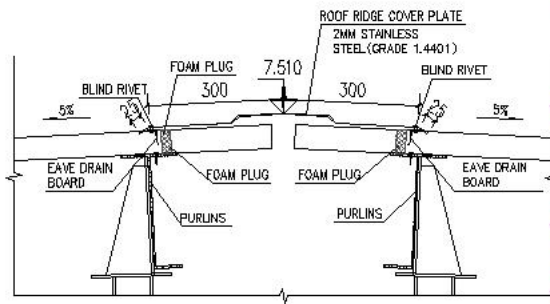
A



① STEEL SHED DETAILS 1:20



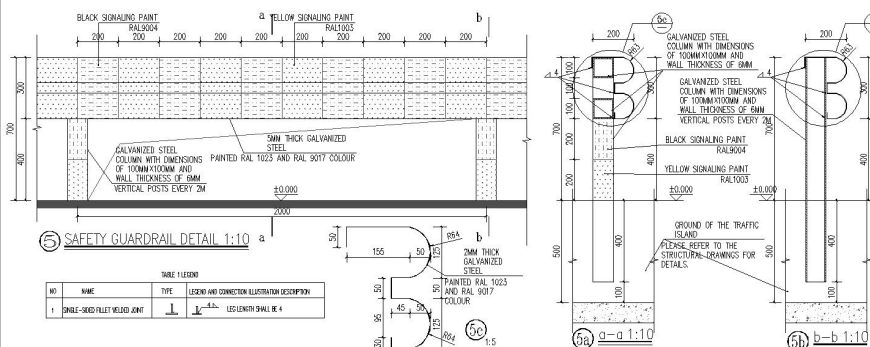
② STEEL SHED DETAILS 1:20



③ STEEL SHED DETAILS 1:10

2. detailed drawings of the system missing

Response: Accepted. Safety Rails detailed drawings has been supplemented in LOT1_DD_1020-A-11-2.



3. detail? how it will be fixed?

Response: Accepted.Revise the detailed drawing.

4. This detail will be addressed once the roof plan,including the highs and lows, is presented. In general, it is recommended to reevaluate the entire layer package, taking into account that the terrace will be accessible for maintenance and factoring in the equipment to be installed on it.

Response: Clarification,For information such as the height of the detailed construction layers, please refer to “ENGINEERING PRACTICE TABLE(FISCAL AND BORDER POLICE ROOM)” -Pv6 Roof.

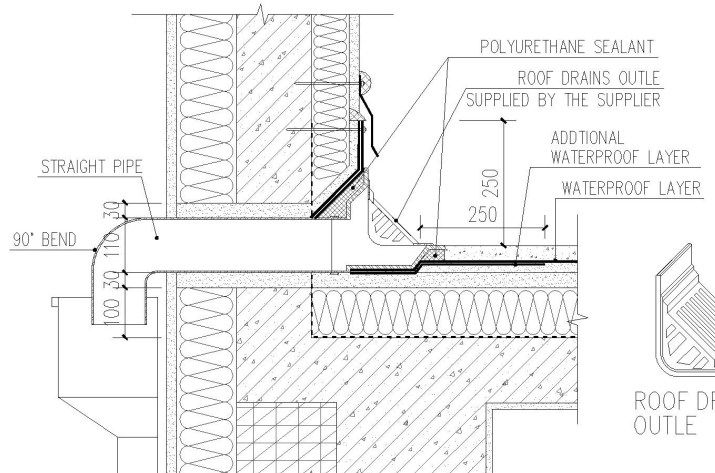
ROOF	Pv6	30MM FINE AGGREGATE CONCRETE (R6-200 TWO-WAY STEEL MESH INSIDE)
		4MM THICK MODIFIED ASPHALT II TYPE POLYESTER PY APP WATERPROOF ROLLS
		20MM THICK 1: 2.5 CEMENT MORTAR LEVELING
	CEMENT MORTAR ROOF	LIGHT-WEIGHT CONCRETE SLOPING COURSE, AND THE THINNEST PART IS 30MM
	(WITH INCLINATION OF 2%)	
	100MM THICK ROCK WOOL BOARD INSULATION LAYER	
	FULLY-SPREAD ONE LAYER OF 0.4MM THICK POLYETHYLENE FILM	
		CAST-IN-SITU RC FLOOR SLAB

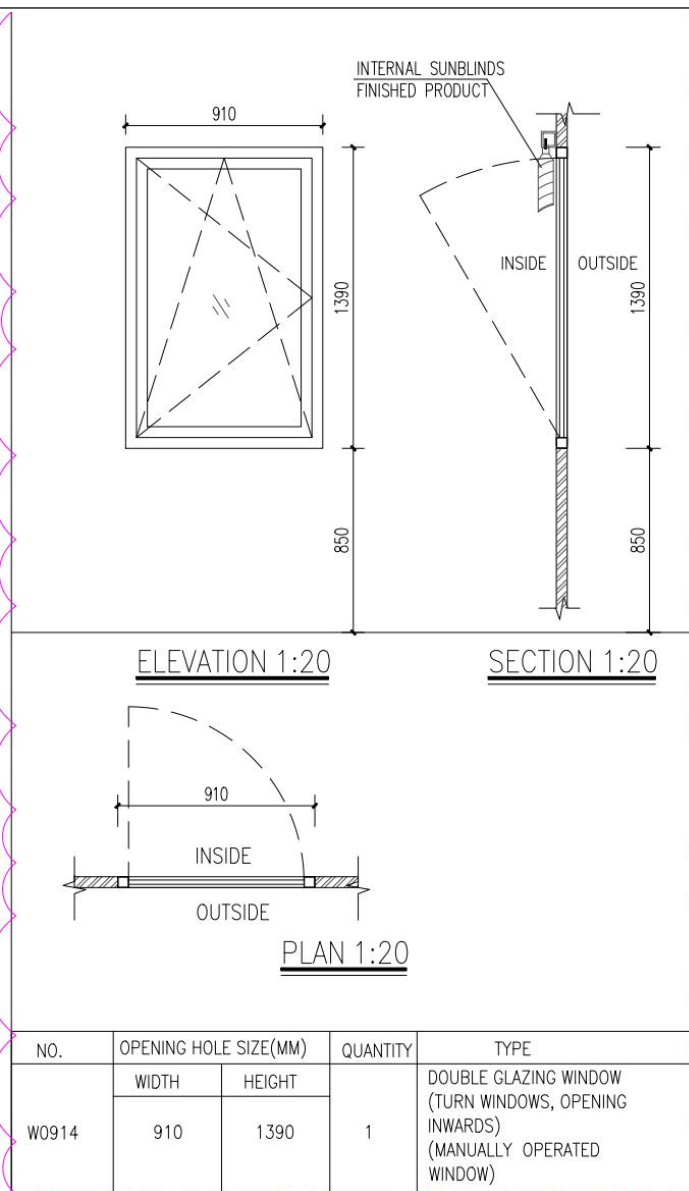
5. - considerations in regards of vapour control?

Response: Clarification, “0.4MM THICK POLYETHYLENE FILM” has been added to Isolate water vapor.

6.weak spot in regards of waterproofing. interface between waterproofing layers and rain outlet to be rechecked

Response: Accepted.Revise the detailed drawing.

		<p>RAINWATER OUTLET OF ROOF</p>  <p>NOTE: ROOF DRAINS OUTLET CONSIST OF STAINLESS STEEL (GRADE 1.4401) GRATE AND MEMBRANE FLASHING CLAMP.</p> <p>12 1:10</p>	
<p>LOT1_DD_1020-A-14</p>	<p>serie 3603 turn and tilt window</p> <p>Response: Accepted.It has been revised.</p>	A	



include Serie 3300 and 3600 Deviations should be listed in the description

Response: Accepted. It had been added.

Safety rails of 70 cm height shall be installed to surround each island

Response: Clarification. It had been added surround each island island.

When?

Response: Clarification. It will be finalized by the supplier in the form of manufacturing drawings and confirmed by the consultant before purchase orders can be placed and construction can commence.

insulation? Air conditioning?

3301-3311 tinted glass and sunshading

sound reduction ≥ 35 dB

A

		<p><u>Response:</u> Accepted. These explanations have been added.</p> <p>where is this from? 3311 says 0.6</p> <p><u>Response:</u> Clarification. According to the meeting minutes document” 2024-06-03_Meeting Protocol CRBC Visit_lhe”, heat transfer coefficient of whole window U-value =1.7 W/m²K.</p>	
--	--	---	--