



**NOTE :**  
ALL DIMENSIONS SHOWN IN THE DRAWING ARE IN MILLIMETER (MM),  
AND ALL LEVELS OR ELEVATIONS ARE IN METER (M) UNLESS  
OTHERWISE SPECIFIED.

**LEGENDS**

- STEEL COLUMN
- STORMWATER STACK PIPE

**ENGINEERING PRACTICE TABLE**

LOCATION	ITEMS	ARCHITECTURAL DETAILS	MATERIAL PROPERTIES
EXTERNAL WALL	Pa1 PAINTED METAL WALL FOR THE COVER OF THE AWNING.	LIGHT GREY(RAL9006) MOLDED STEEL PLATE. PURLIN.	1. THICKNESS 0.5MM; 2. ANTI-CORROSION GRADE C5;
	Pa2 PAINTED WALL FOR THE BASE OF CONTAINERS	TO BE PAINTED WITH SPECIAL INTERFACIAL AGENT; 15MM THICK 1:3 CEMENT MORTAR; PRIMER COAT ONE COURSE; FINAL COAT TWO COURSES;	1.THE BONDING PERFORMANCE OF THE INTERFACE AGENT IS $\geq 1.0$ MPa, AND IT HAS GOOD RESISTANCE TO WATER AND ALKALI EROSION. 2.CEMENT MORTAR SHOULD HAVE GOOD COMPRESSIVE STRENGTH. BONDING STRENGTH SHOULD BE $\geq 0.5$ MPa
	Pv1 METAL ROOF FOR ALL ROOFS.	LIGHT GREY(RAL9006) MOLDED STEEL PLATE. PURLIN.	1. THICKNESS 0.5MM; 2. ANTI-CORROSION GRADE C5;
GROUND	Pv2 CEMENT MORTAR GROUND FOR THE TRAFFIC ISLAND	THE REINFORCED CONCRETE SLAB SHALL BE SLOPED OUTWARD AT A 2% GRADIENT.SURFACE BRUSHED.	1. NOMINAL CONCRETE COVER OF REINFORCEMENT $\geq 55$ MM. 2. THE SURFACE SHOULD BE UNIFORM IN TEXTURE; FORMWORK LINERS SHOULD LEAVE NO STAINS ON CONCRETE, SHOULD BE CONNECTED AND FIXED TO THE BACKING, WITHOUT ANY DEFECTS.
COATING	COATING 1 FOR STEEL COLUMN	LIGHT GRAY(RAL9006) COATING.	1. THE SURFACE OF THE BASE MATERIAL SHALL BE THOROUGHLY DERUSTED, AND THE STANDARD SHALL REACH GRADE ST3.0 (FREE OF RUST, OIL STAINS, FLOATING DUST, ETC.) AND SHOW OBVIOUS METALLIC LUSTER. THE SHARP CORNERS, EDGES AND BURS SHALL BE POLISHED SMOOTH TO ACHIEVE ARC TRANSITION. THE WELD JOINTS SHALL BE FREE OF DEFECTS SUCH AS WELDING SLAG AND SPATTER.
	COATING 2 FOR SAFETY RAIL	RETROREFLECTIVE BLACK-YELLOW PAINT, WITH 20CM-WIDE ALTERNATING STRIPES. BLACK (RAL9004) AND YELLOW(RAL1003) .	2. AFTER THE BASE MATERIAL TREATMENT PASSES THE ACCEPTANCE CHECK, THE FIRST COAT OF PAINT SHALL BE APPLIED WITHIN 8 HOURS TO PREVENT SECONDARY RUSTING. 3. THE PAINT HAS TO BE RESISTANT AGAINST ABRASION AND ULTRAVIOLET RADIATION AND HAS TO BE APPROVED BY THE ENGINEER.
	COATING 3 FOR CURBS	RETROREFLECTIVE BLACK-YELLOW PAINT, WITH 20CM-WIDE ALTERNATING STRIPES. BLACK (RAL9004) AND YELLOW(RAL1003) .	THE PAINT HAS TO BE RESISTANT AGAINST ABRASION AND ULTRAVIOLET RADIATION AND HAS TO BE APPROVED BY THE ENGINEER.

**FACILITIES TABLE**

FACILITIES	Eq1	WASHBASIN WATER COPPER MATERIAL FAUCET	WASHBASIN WATER COPPER MATERIAL FAUCET.
	Eq2	SHOWER COPPER MATERIAL SHOWER HEAD	SHOWER COPPER FAUCET WITH CHROME FINISH
	Eq3	CERAMIC WASHBASIN WHITE GLAZED COUNTER BASIN	WHITE GLAZED COUNTER BASIN
	Eq4	CERAMIC CLOSE STOOL WHITE GLAZED TOILET	WHITE GLAZED TOILET
	Eq7	MIRROR GLASS	MIRROR GLASS, DIMENSIONS REFER TO DRAWING. MIRRORS SHALL BE MANUFACTURED FROM GLASS MINIMUM 6MM THICK AND SHALL HAVE GROUND AND POLISHED EDGES, PROTECTIVE PAINT COATING SHALL PROTECT THE SILVERING. SILVERING SHALL BE OF A MINIMUM THICKNESS OF 65 TO 75 MG/SQ. FT WITH A GUARANTEE OF 10 YEARS.
	Eq8	MARBLE COUNTERTOP	MARBLE COUNTERTOP, DIMENSIONS REFER TO DRAWING.
	Eq13	TISSUE BOX	PLASTIC
	Eq14	TOWEL HOOK	PLASTIC
	Eq15	CERAMIC MOP BASIN	WHITE GLAZED

**NOTES**

- THE ABSOLUTE ELEVATION OF  $\pm 0$  IS 6.800M.
- ACCORDING "GEOTECHNICAL INVESTIGATION REPORT FOR MAIN GATE AND FREE ZONE AREA WORKS OF THE CAIO NEW PORT PROJECT IN ANGOLA" APPENDIX : B-2, IT CAN BE SEEN THAT THE HIGHEST ASTRONOMICAL TIDE LEVEL OF THE FREE ZONE GATE IS 4.6M, THE THICKNESS OF THE GROUND CONSTRUCTION METHOD IS 600MM, WITH A DIFFERENCE OF 1.6M BETWEEN THE TWO. THE GROUND CUSHION LAYER IS MUCH HIGHER THAN THE GROUNDWATER LEVEL LINE .
- 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  $\geq 240\mu\text{m}$ , INCLUDING  $70\mu\text{m}$  OF PRIMER,  $70\mu\text{m}$  OF INTERMEDIATE COATING, AND  $100\mu\text{m}$  OF FINAL COAT.
- 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  $85\mu\text{m}$  (STEEL 5MM THICK AND OVER). THE MINIMUM COATING THICKNESS IS  $64\mu\text{m}$  (STEEL UNDER 5MM THICK BUT NOT LESS THAN 2MM).
- 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, 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.
- 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. THE RAINWATER PIPE CLAMP IS MADE OF METAL AND CAN FIRMLY FIX THE RISER WITH A SPACING OF LESS THAN 1,500MM.
- 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.
- 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.

Engineer Approval Codes			
Code Nr	Condition	Signature Employer's Representative	Date
Code 1	Noted Work may proceed.		
Code 2	Noted with comments Work may proceed.		
Code 3	Rejected Work may not proceed. Revise and resubmit.		

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REVISION	DESCRIPTION	DATE	CHECKED

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**PROJECT**

**The Project of the New Port of Caio in Cabinda**

**DRAWING TITLE**

**Onshore Buildings\_Free Zone Gate 2**  
**Plans and Engineering Practice Table**

DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	DRAWING N°
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DESIGN STAGE	DETAILED DESIGN			