

General Structure Notes:

1 - ALL STRUCTURAL DRAWINGS SHOULD BE READ IN CONJUNCTION WITH ALL RELATED ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REFER ESPECIALLY TO MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS, PIPES, ELECTRICAL CONDUITS AND BOXES EMBEDDED IN CONCRETE.
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXACT LOCATION OF ALL DUCTS OPENINGS AND SLEEVES IN STRUCTURAL SLABS, WALLS, ELECTRICAL CONDUITS AND BOXES EMBEDDED IN CONCRETE. REFER ESPECIALLY TO ARCHITECTURAL DRAWINGS FOR OPENINGS IN REINFORCED CONCRETE WALLS, SLABS AND BEAMS FOR SIZE, SHAPE AND LOCATION OF ALL GROOVES WHERE REQUIRED.

2 - FOR FAIR-FACED CONCRETE FINISHES REFER TO DRAWINGS (RAMPS,SIDE FACES OF THE PARAPETS,...)

3 - CONCRETE STRUCTURES ARE DESIGNED IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE CODE (ACI 318 89), AND UNIFORM BUILDING CODE (UBC 1997) FOR SEISMIC FORCES "ZONE 3 "AND WIND PRESSURE.

4 - DESIGN BEARING CAPACITY OF SOIL UNDER FOUNDATIONS IS CONSIDERED TO BE 2 KG/CM2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THAT THE FOUNDATION LAYER HAS A BEARING CAPACITY AT LEAST EQUAL TO THE ABOVE AND TO CONSULT WITH THE ENGINEER IF OTHERWISE.

5 - REINFORCED CONCRETE SHALL HAVE A MINIMUM 28 DAYS CYLINDER CRUSHING STRENGTH OF **320/400 KG/CM2**
ALL REINFORCED CONCRETE SHALL BE VIBRATED.

6 - REINFORCEMENT:

ALL BARS DENOTED BY $\emptyset$ OR T TO BE HIGH TENSILE, HIGH BOND STEEL, BS 4461, F_y = 72000 PSI (5000 KG/CM2) WHEN REINFORCEMENTS ARE SHOWN IN PLAN

7 - CONCRETE PROTECTIVE COVER FOR ANY REINFORCEMENT SHOULD BE AS FOLLOWS: (UNLESS OTHERWISE IS SHOWN ON DRAWINGS)

FOR SLABS: NOT EXPOSED 3 CM AND 5CM FOR EXPOSED ONES

FOR COLUMNS: NOT EXPOSED 3 CM AND 5CM FOR EXPOSED ONES

FOR BEAMS: NOT EXPOSED 3 CM AND 5CM FOR EXPOSED ONES

FOR FOUNDATIONS: 7 CM

8 - BEGINNING AND ENDING OF BARS ARE INDICATED AS FOLLOWS:



9 - DEVELOPMENT LENGTH OF BARS SHOULD BE NOT LESS THAN 60 $\emptyset$

10 - DO NOT SCALE FOR DRAWINGS, ALL DIMENSIONS SHOULD BE READ OR COMPUTED

11 - THE CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR ENGINEERS' APPROVAL

12 - BAR BENDING TABLE

T = 6 mm D $\geq$ 4 cm

T = 8 mm D $\geq$ 5.5 cm

T = 10 mm D $\geq$ 7.5 cm

T = 12 mm D $\geq$ 8.5 cm

T = 14 mm D $\geq$ 10 cm

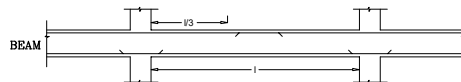
T = 16 mm D $\geq$ 11 cm

T = 20 mm D $\geq$ 14 cm

T = 25 mm D $\geq$ 18 cm



13 - BOTTOM AND TOP BEAM REINFORCEMENT LAYOUT



14 - NOTE

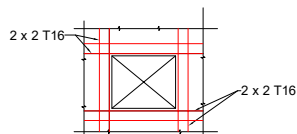
- COLUMNS, WALLS AND SLABS IN EACH LEVEL SHOULD BE TESTED BY COMPRESSIVE STRENGTH ON 6 CORE SAMPLES TAKEN AT 28 DAYS.

- EDGE BARS OR EDGE COLUMNS TO BE TIED BY HOOKS @ 15 cm INTO DROP BEAMS AND SLABS

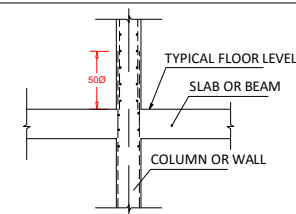
- ALL STIRRUPS FOR SECTION ARE TO T8 UNLESS NOTE OTHERWISE

- STIRRUPS OF COLUMNS TO CONTINUE INTO DROP BEAMS

15 - FOR ALL REINFORCED CONCRETE SLABS, PROVIDE TWO ADDITIONAL T16 BARS ON EACH SIDE OF ALL OPENINGS, BOTH AT TOP AND BOTTOM, AS SHOWN ON THE DRAWINGS.



16- OVERLAP STEEL REINFORCEMENT IN COLUMNS AND WALLS AT TYPICAL FLOOR LEVEL



REINFORCEMENT SECTION FOR LINTELS

Lintels lengths = L

IF $L < 2m$



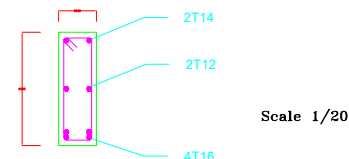
Lintels lengths = L

IF $4m > L > 2m$



Lintels lengths = L

IF $6m > L > 4m$

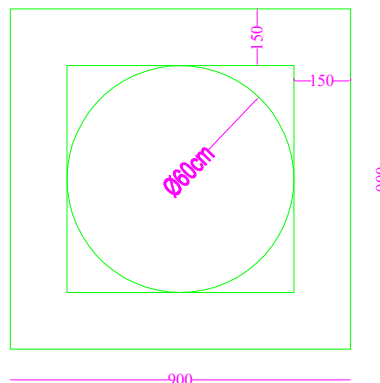


غطاء من الفوننت

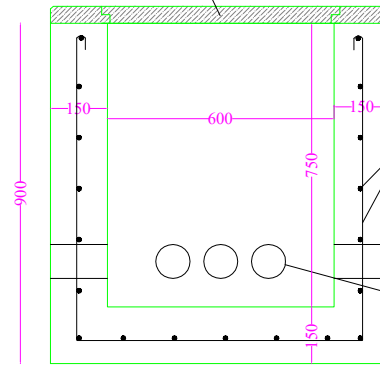
مستوى الزيت

قضبان تسليج
12 ملم كل 15 سم

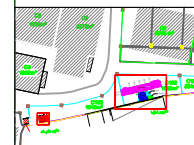
قساطل "3" عدد 3



مسطح نموذجي للريغار

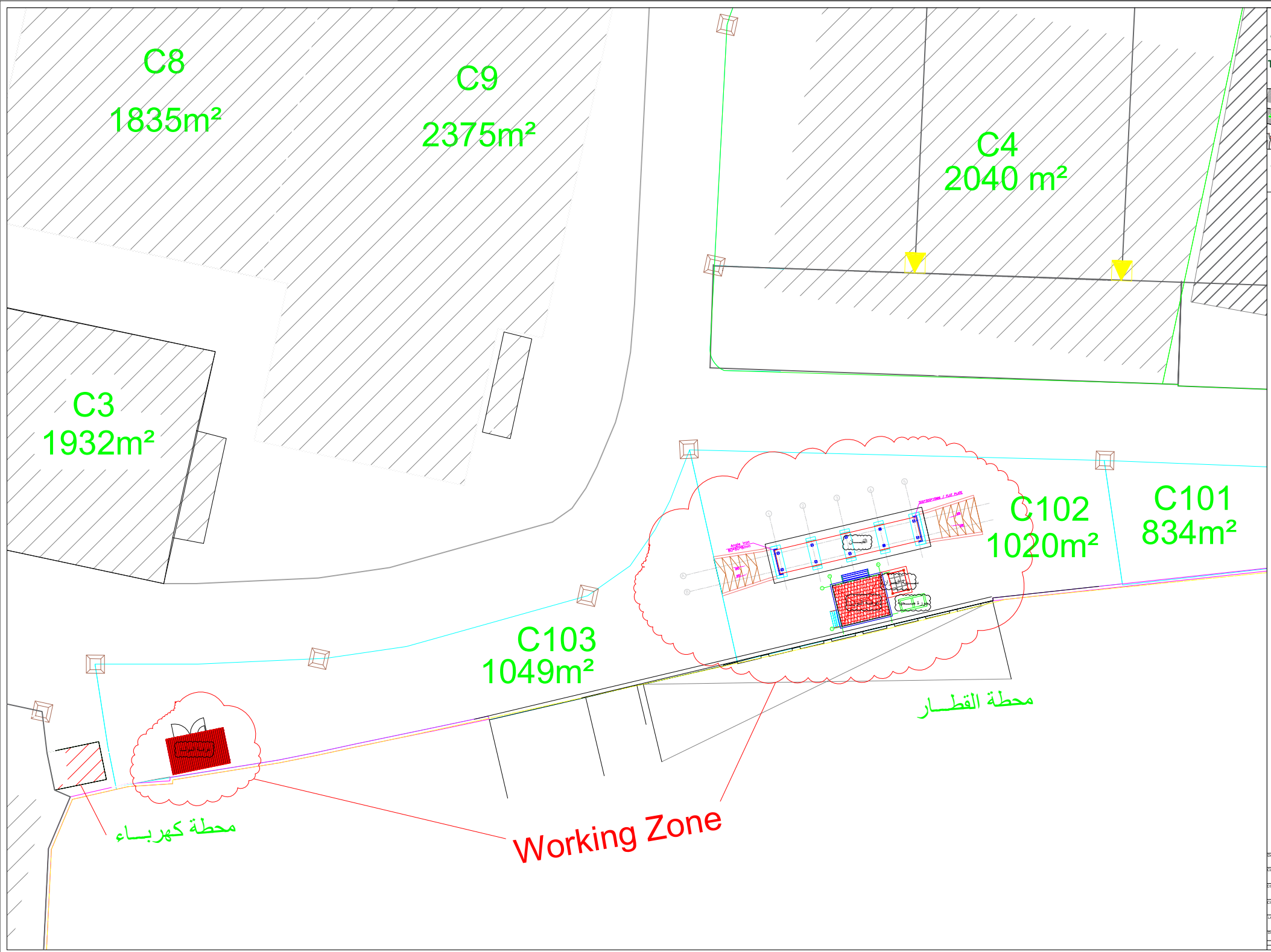


مقطع نموذجي للريغار





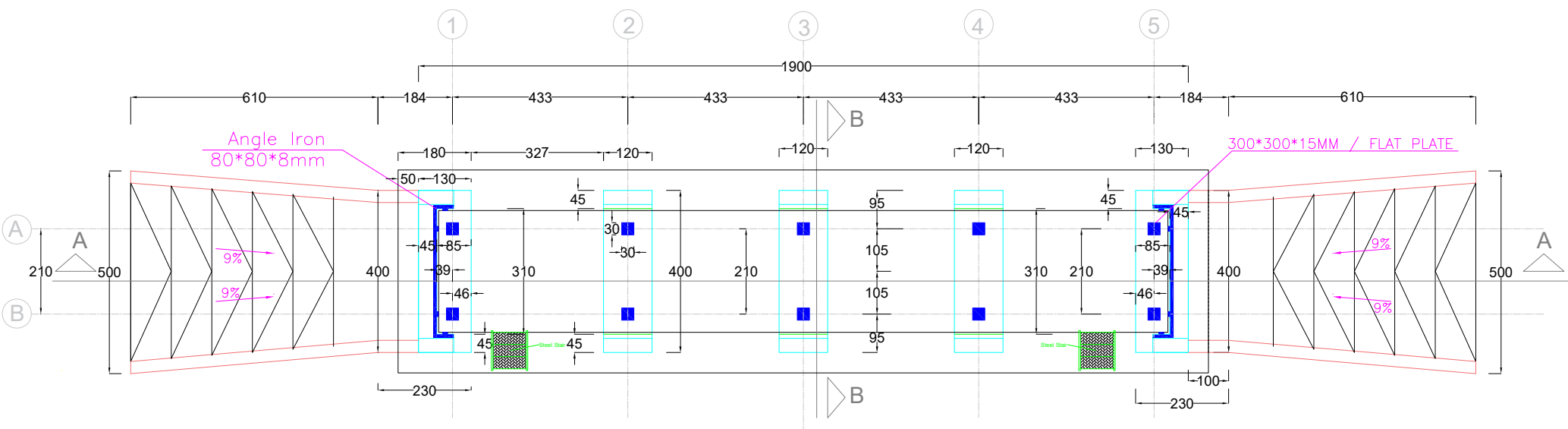
NOTES





Construction of a
weighbridge in the Free
Zone - Port of Tripoli.

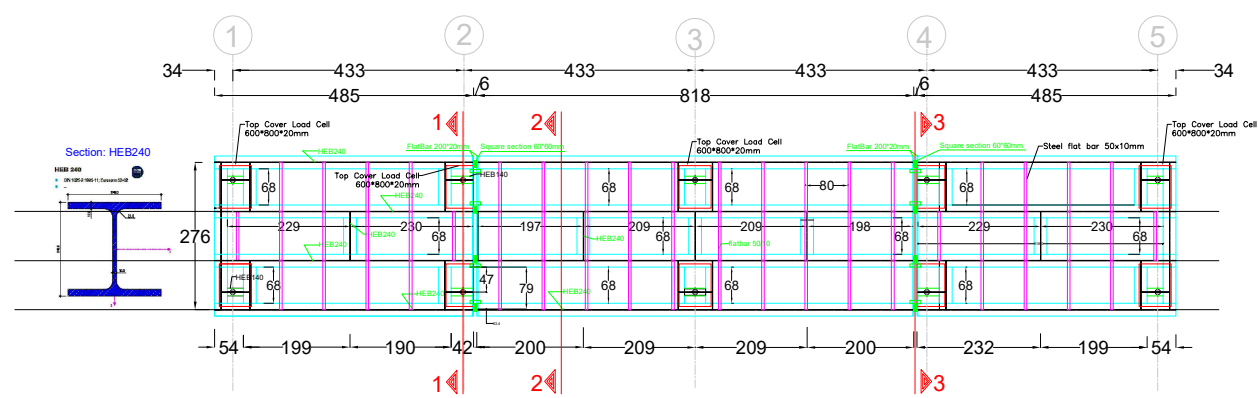
NOTES



Weighbridge Plan

SCALE 1/50

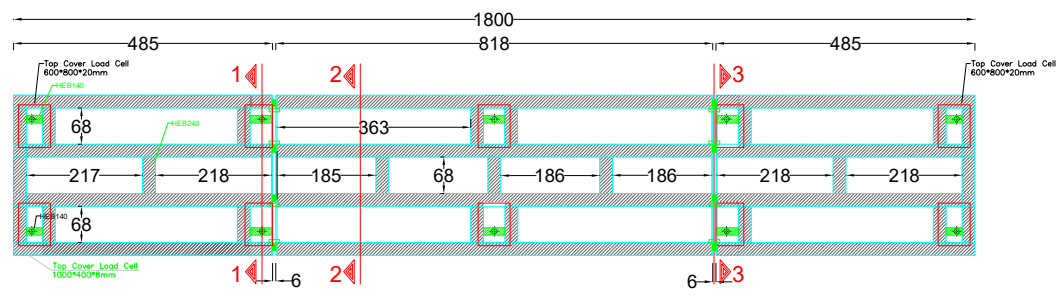
UNIT (cm)



Weighbridge Slab Details

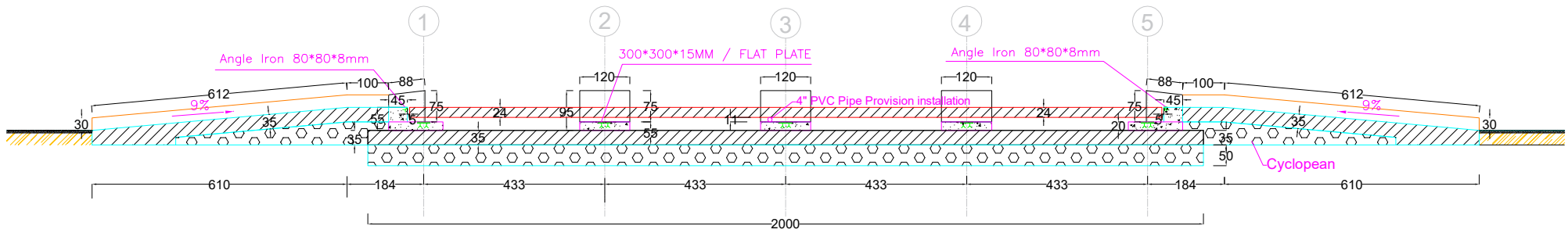
SCALE 1/50

UNIT (cm)



SCALE 1/50

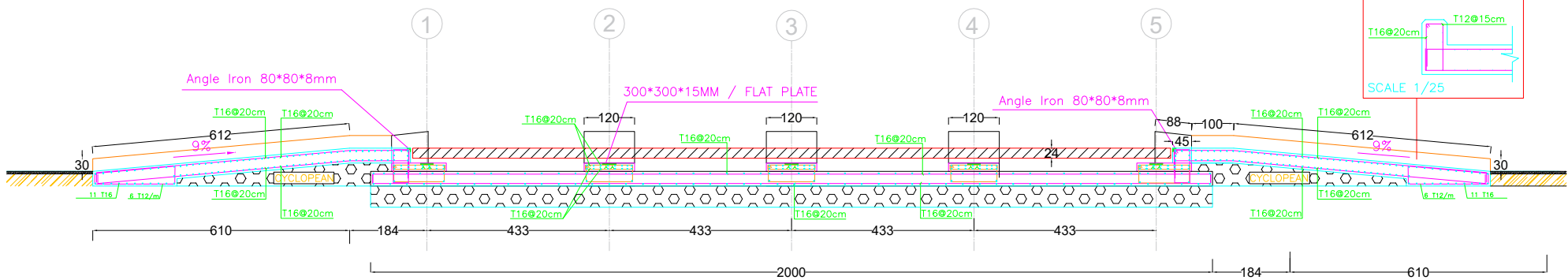
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LONGITUDINAL SECTION A-A-FORMWORK

SCALE 1/50

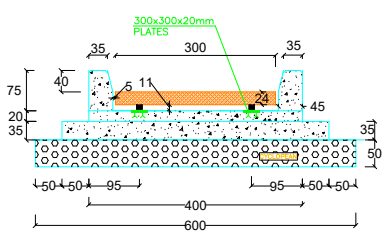
UNIT (cm)



REINFORCEMENT SECTION A-A

SCALE 1/50

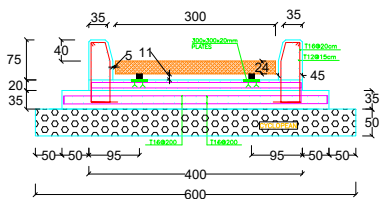
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SECTION B-B (FORMWORK)

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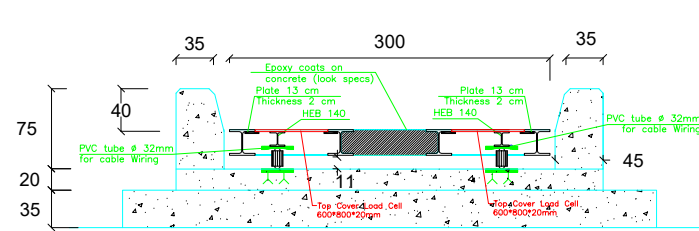
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SECTION B-B (REINFORCEMENT)

SCALE 1/50

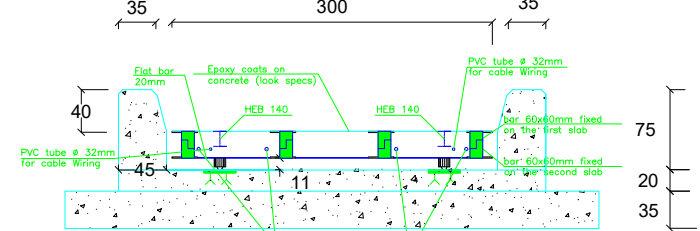
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SEC 1 - 1

SCALE 1/25

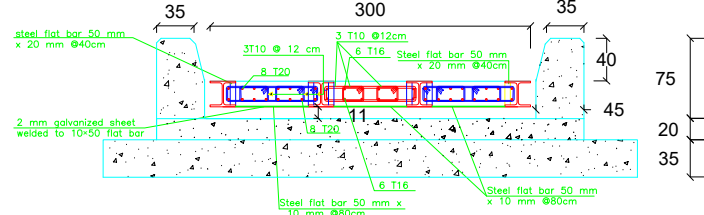
UNIT (cm)



SEC 3 - 3

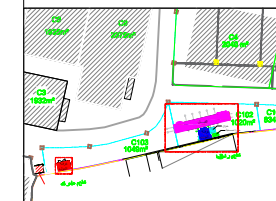
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UNIT (cm)



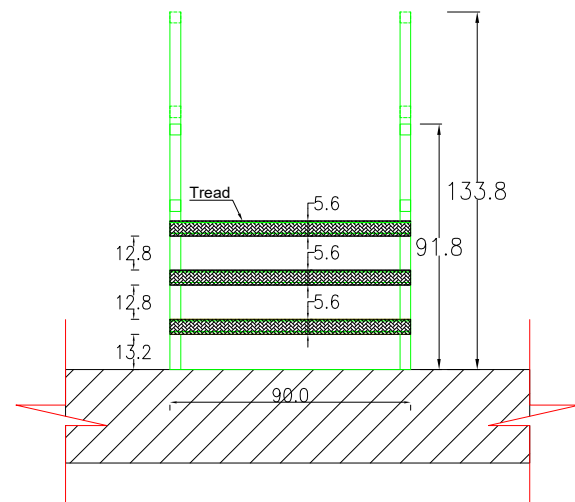
SEC 2 - 2

UNIT (cm)



Construction of a weighbridge in the Free Zone – Port of Tripoli.

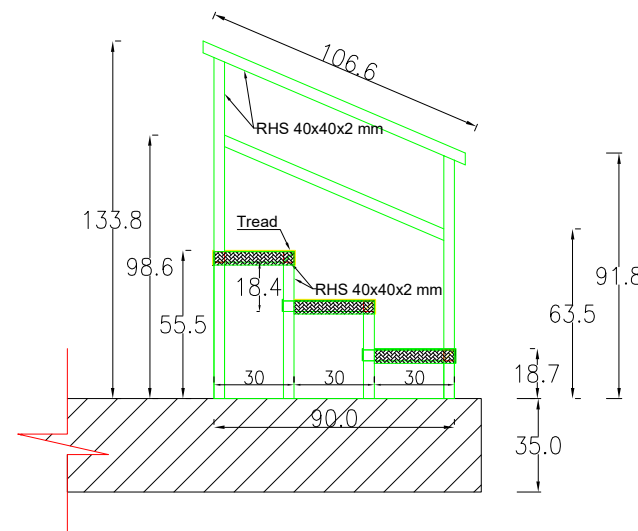
NOTES



Front View

SCALE 1/20

UNIT (cm)



Side View

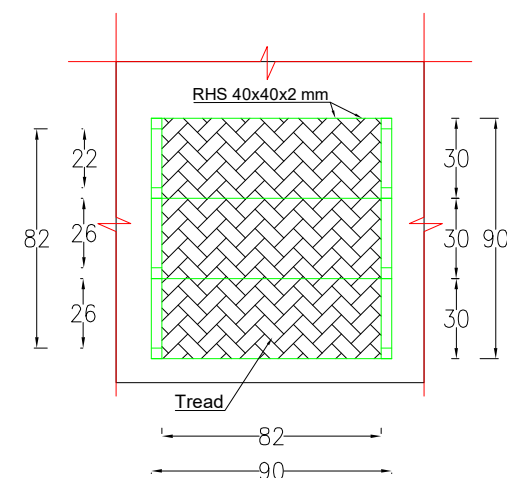
UNIT (cm)

Note:

- Galvanized steel checker plate (lentil pattern).
- Minimum thickness: 3 mm.
- Hot-dip galvanized.
- Anti-slip surface.
- Fixed on steel chassis.
- Complete with all necessary fixings.
- Installed as per approved shop drawings and engineer's instructions.



GCP-01: Lentil pattern galvanized checker plate.

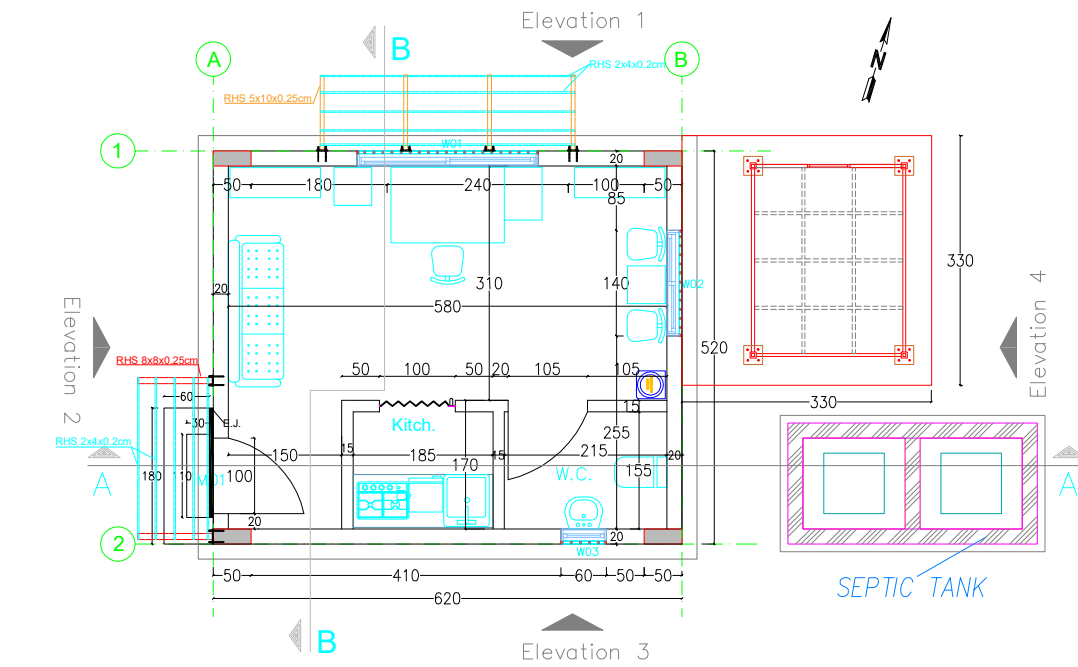
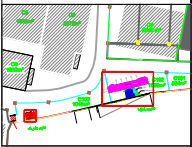


Top View

SCALE 1/20

UNIT (cm)

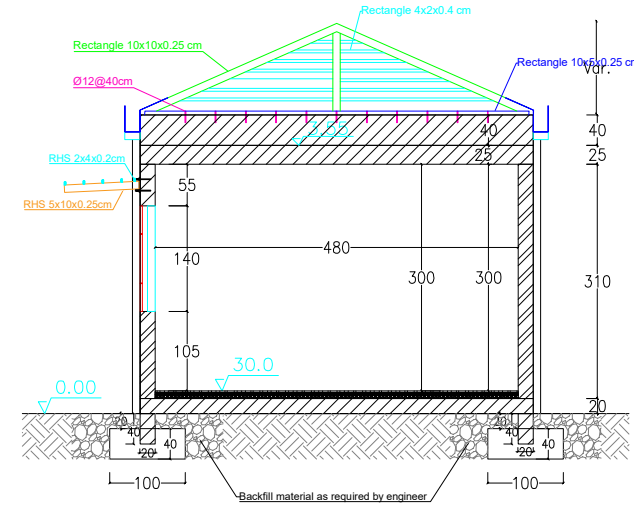
Drawing prepared by:	
Technical Department at The Port of Tripoli	
CLIENT:	
CONTRACTOR:	
CONSULTANT:	
LAYOUT TITLE:	
Structural drawings for weighbridge With Related Room	
Drawing title :	Drawing # :
Scale	Date
--	30-01-2026
S04	



SCALE 1/50

PLAN

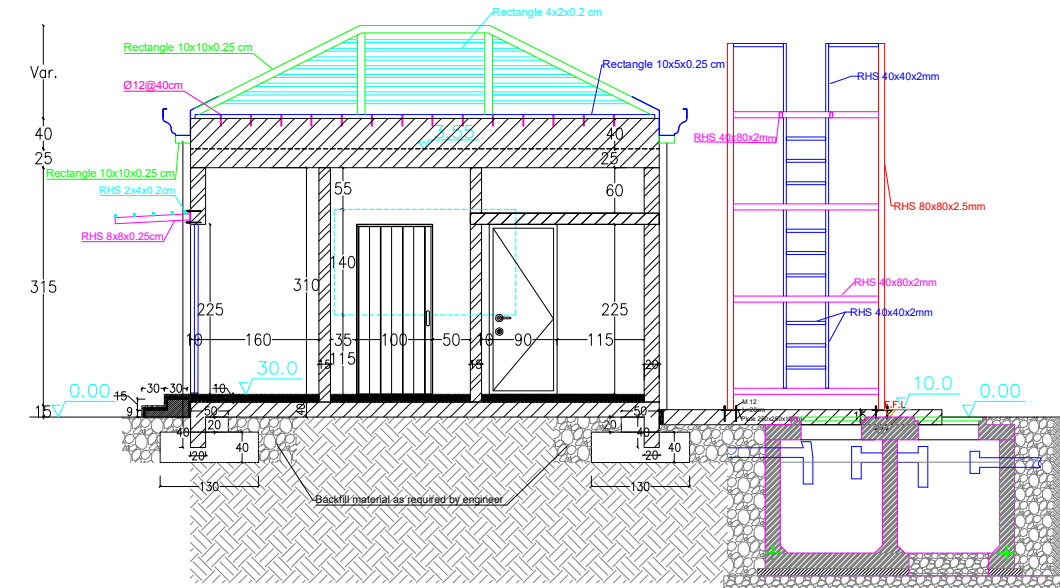
UNIT (cm)



SCALE 1/50

Section B-B

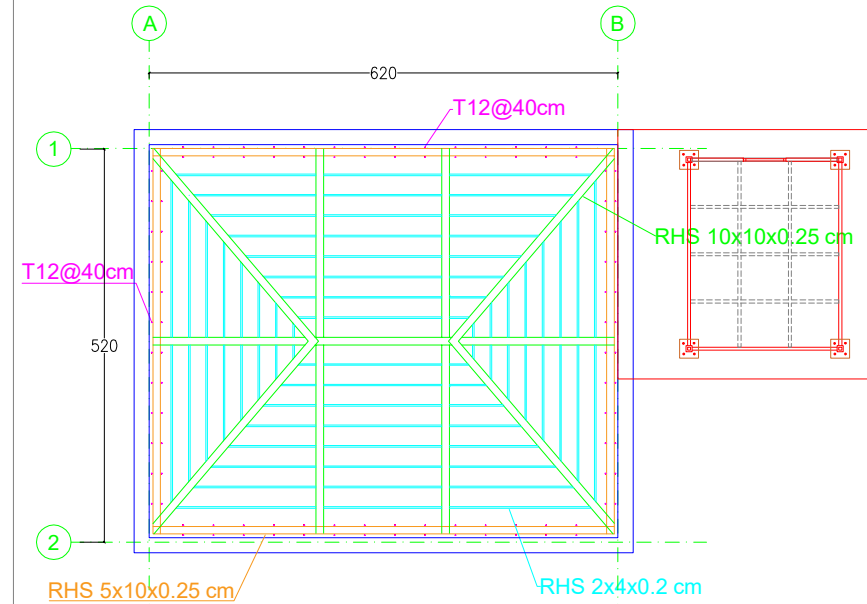
UNIT (cm)



SCALE 1/50

Section A-A

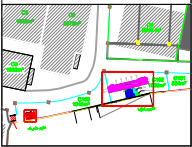
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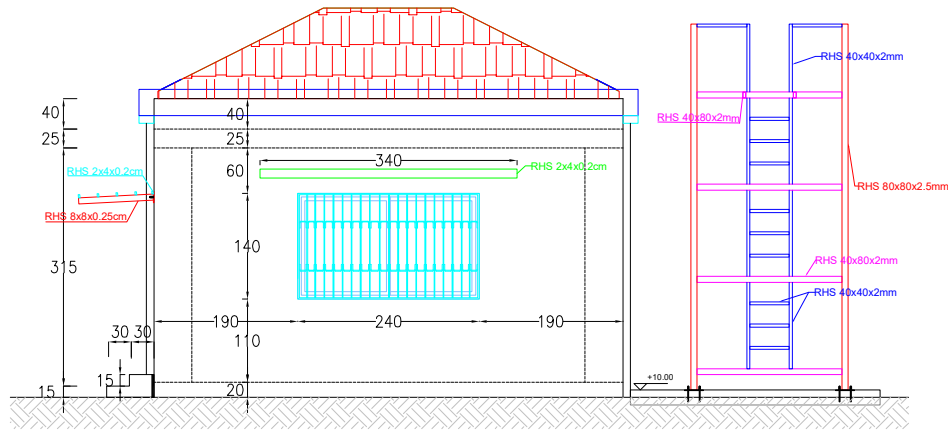
Structural Tile Roof Plan

UNIT (cm)



Construction of a
weighbridge in the Free
Zone – Port of Tripoli.

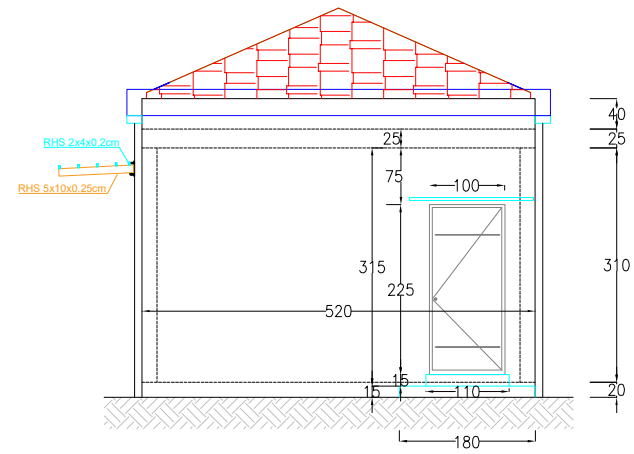
NOTES



Elevation 1

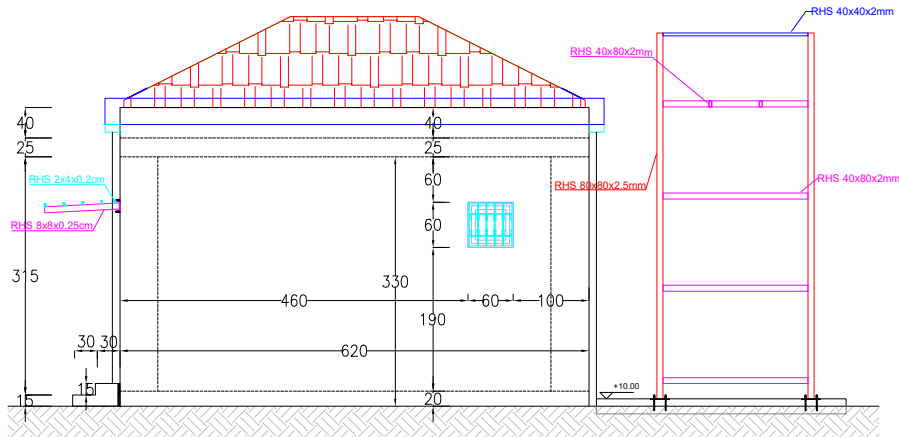
SCALE 1/50

UNIT (cm) SCALE 1/50



Elevation 2

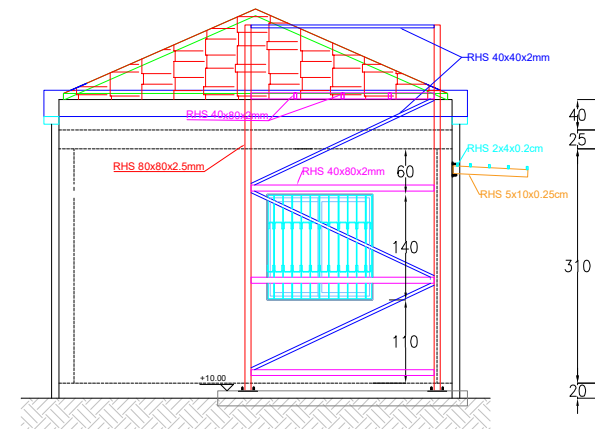
UNIT (cm)



Elevation 3

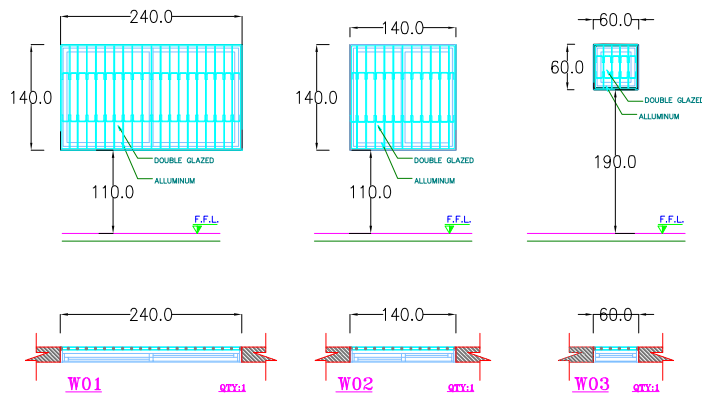
SCALE 1/50

UNIT (cm) SCALE 1/50



Elevation 4

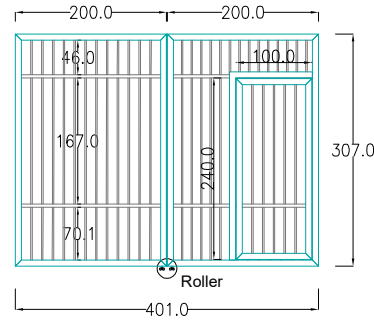
UNIT (cm)



Windows Details

Scale 1/50

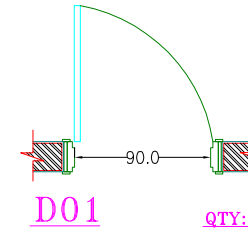
Unit (cm)



Canopy Door

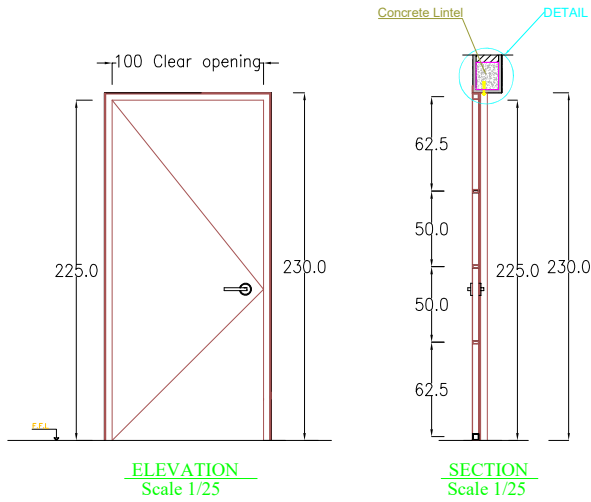
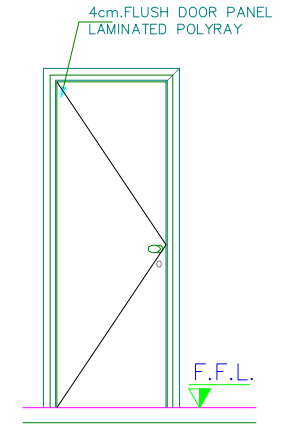
Scale 1/50

Unit (cm)



D01

QTY:1

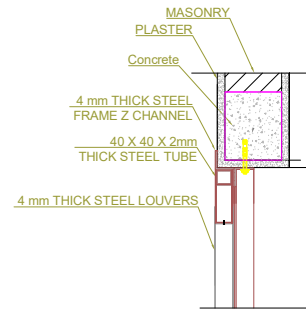


ELEVATION

Scale 1/25

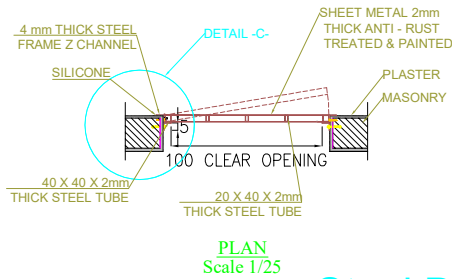
SECTION

Scale 1/25



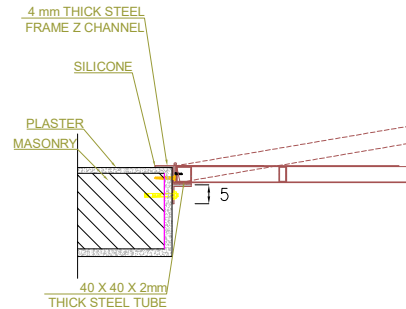
DETAIL -E-

Scale 1/10



PLAN

Scale 1/25



DETAIL -C-

Scale 1/10

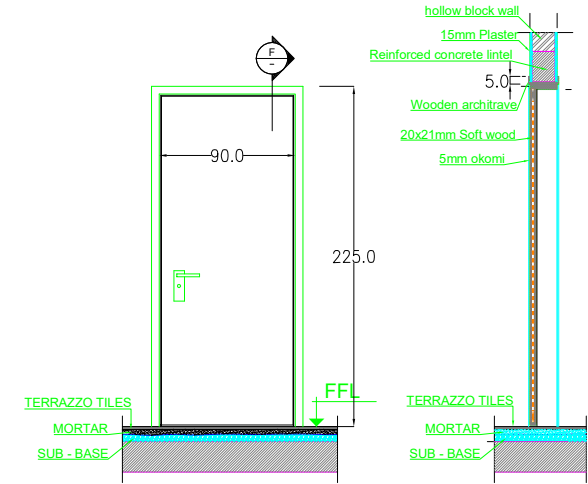
Steel Door Details

Scale 1/25

Unit (cm)

Scale 1/25

Unit (cm)



ELEVATION D01

SCALE 1/25

SECTION

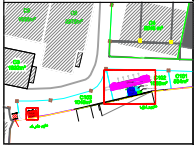
SCALE 1/25

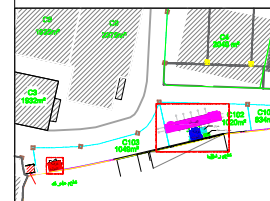


PLAN D01

SCALE 1/25

Wood Door Details

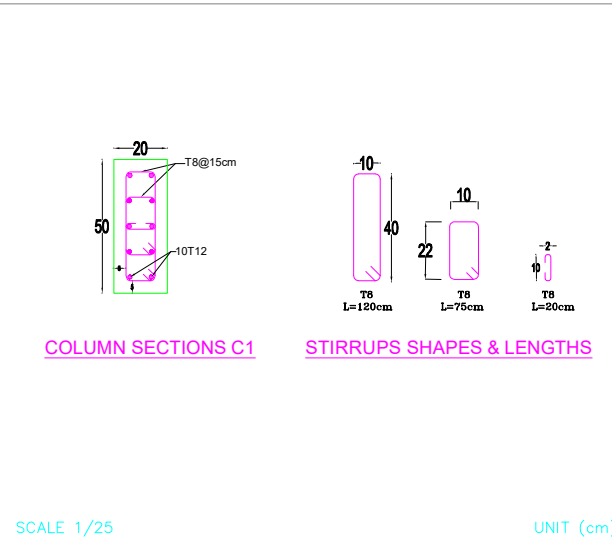
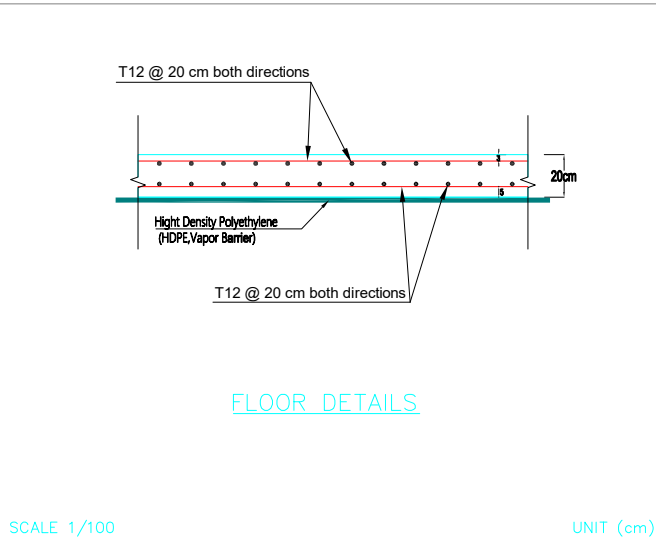
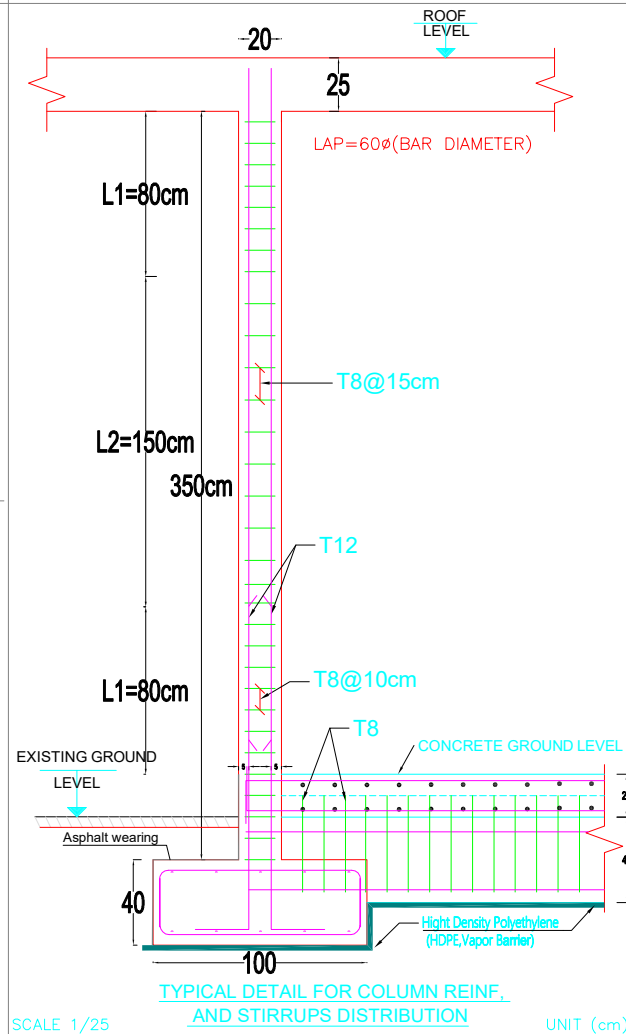
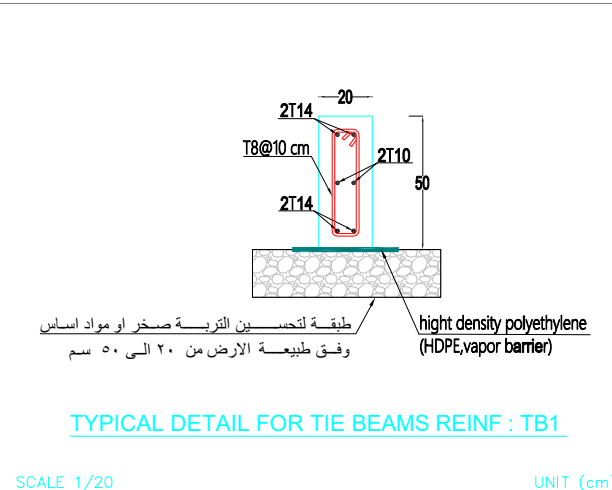
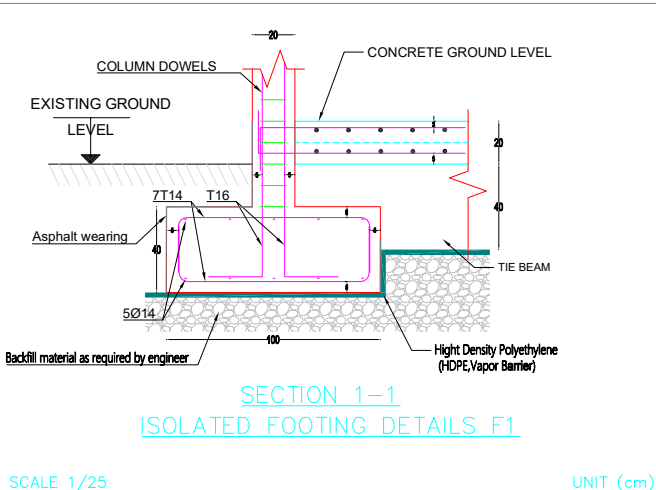
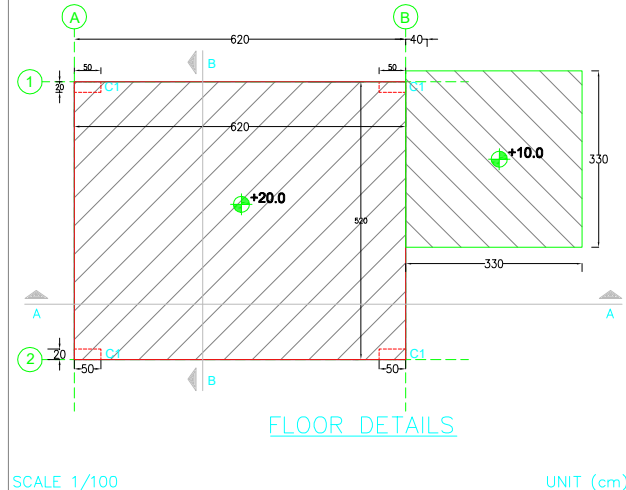
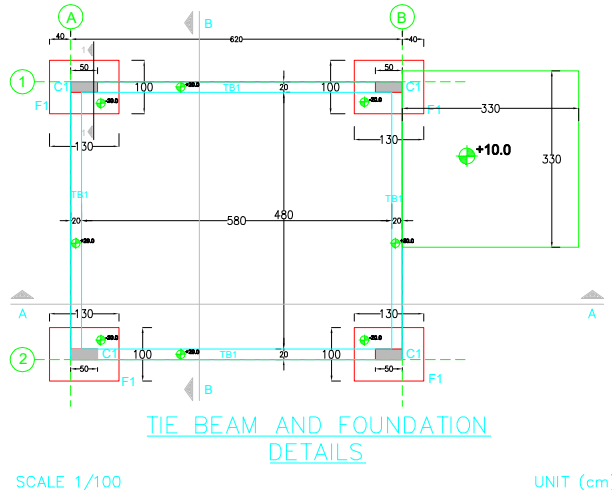
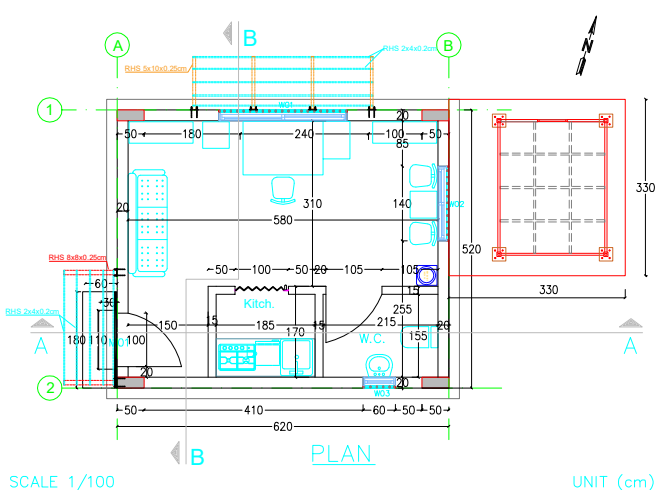


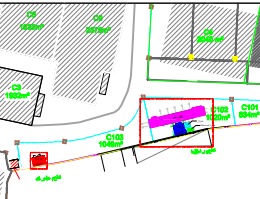


Construction of a weighbridge in the Free Zone – Port of Tripoli.

NOTES

Drawing prepared by:		
Technical Department at The Port of Tripoli		
CLIENT:		
CONTRACTOR:		
CONSULTANT:		
LAYOUT TITLE:		
Drawings for weighbridge With Related Room		
Drawing title :		Drawing # : S08
Structural Plan For :		
Foundations /Columns /S.O.G		
Scale	Date	
1/100	30-01-2026	

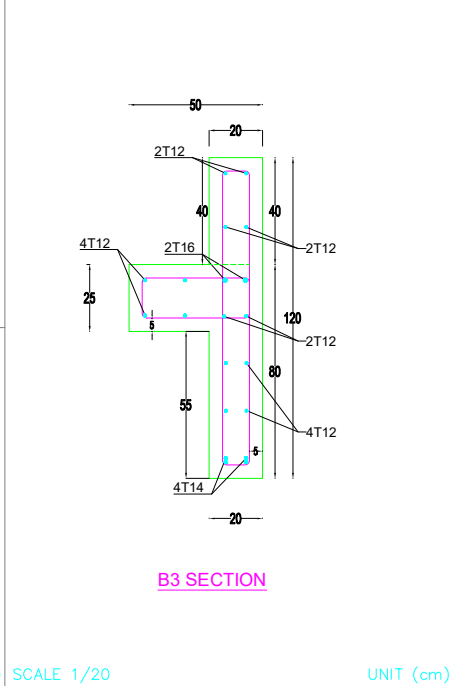
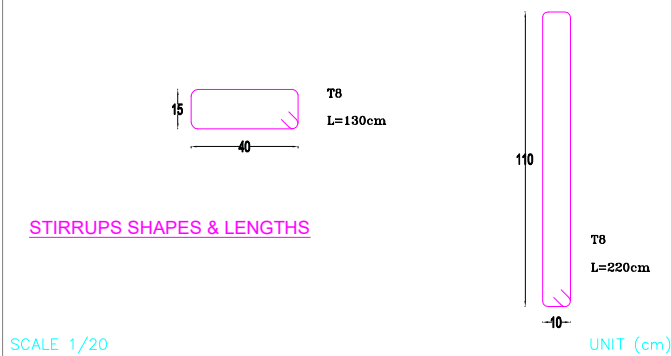
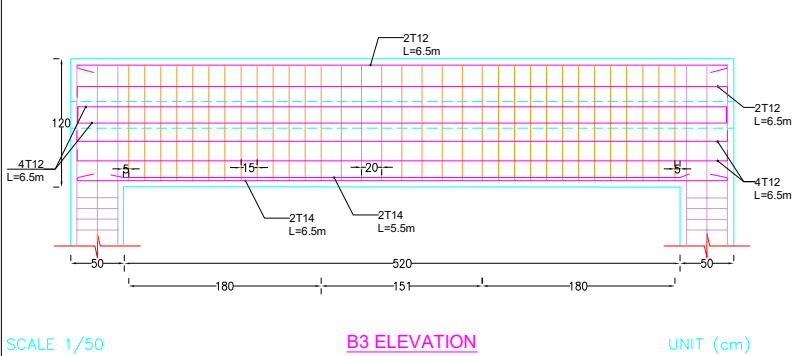
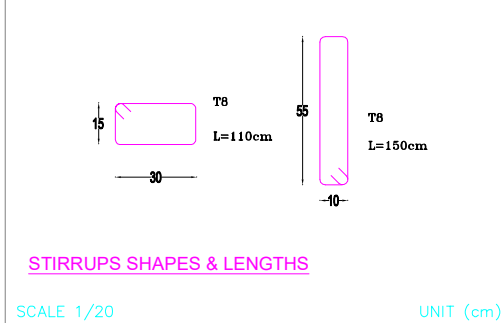
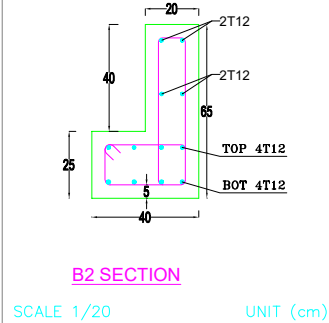
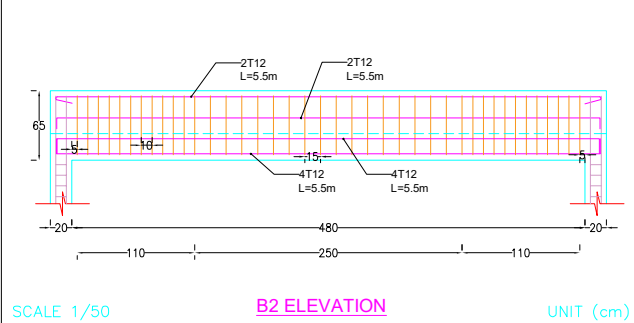
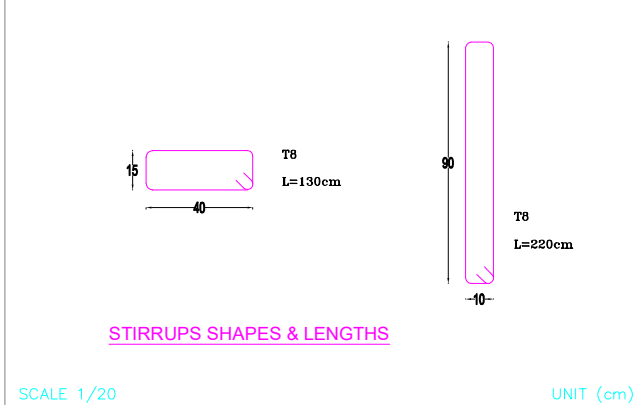
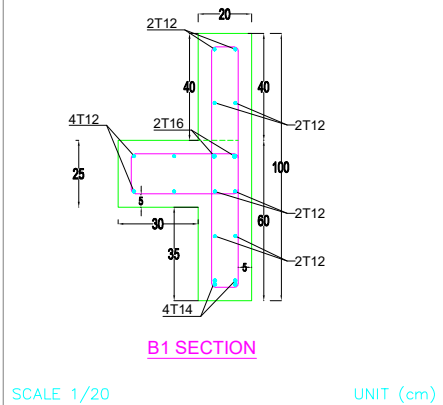
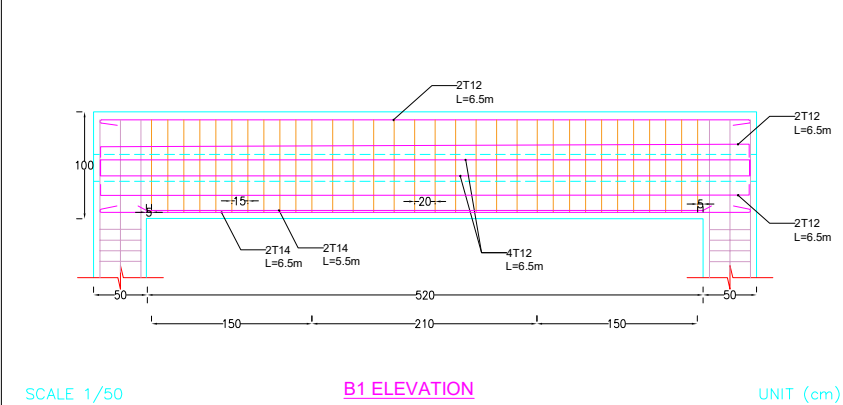
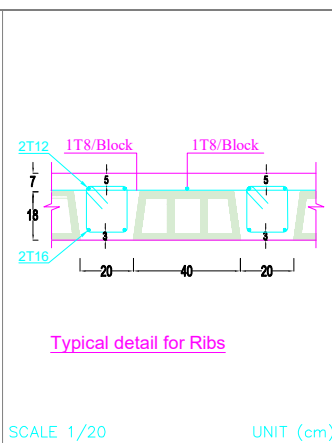
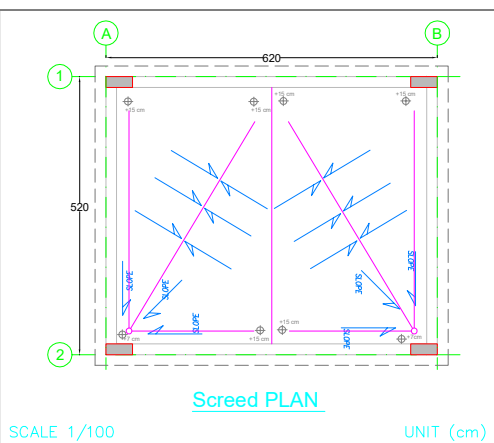
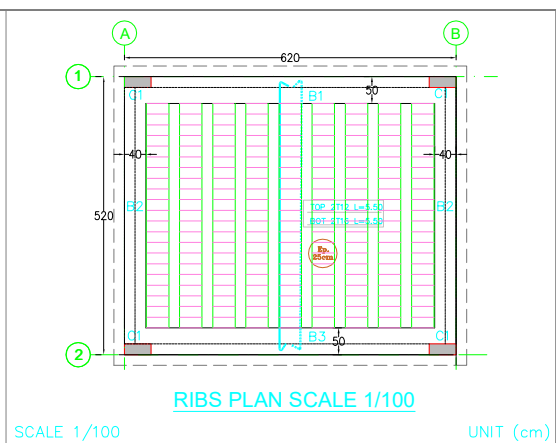
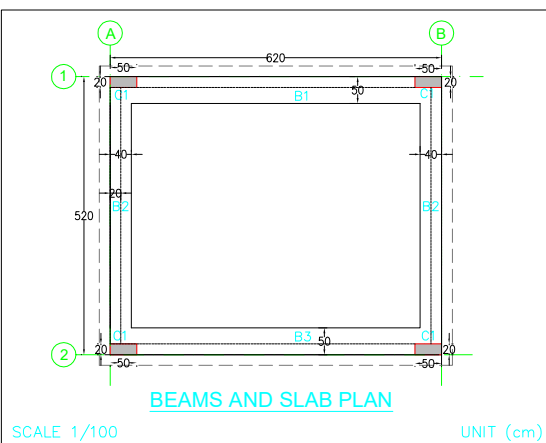


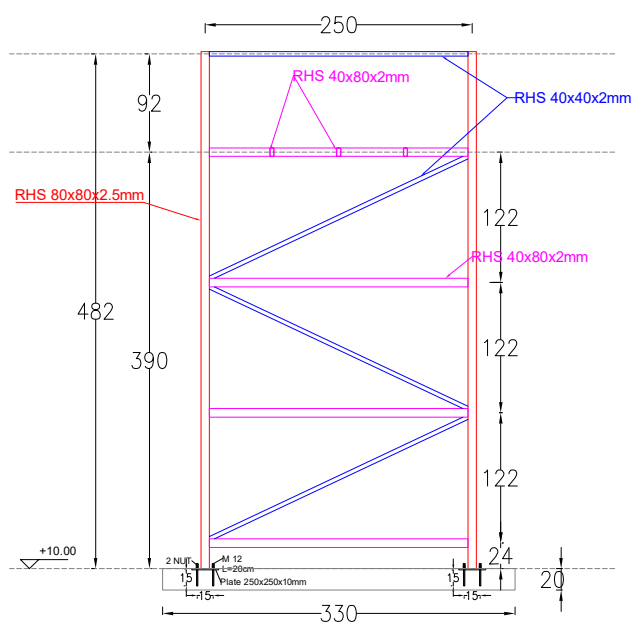


Construction of a
weighbridge in the Free
Zone – Port of Tripoli.

NOTES

Drawing prepared by: Technical Department at The Port of Tripoli		
CLIENT:		
CONTRACTOR:		
CONSULTANT:		
LAYOUT TITLE: Drawings for weighbridge With Related Room		
Drawing title : Structural Drawing For : Slabs & Related Beams		Drawing # : S09
Scale 1/100	Date 30-01-2026	

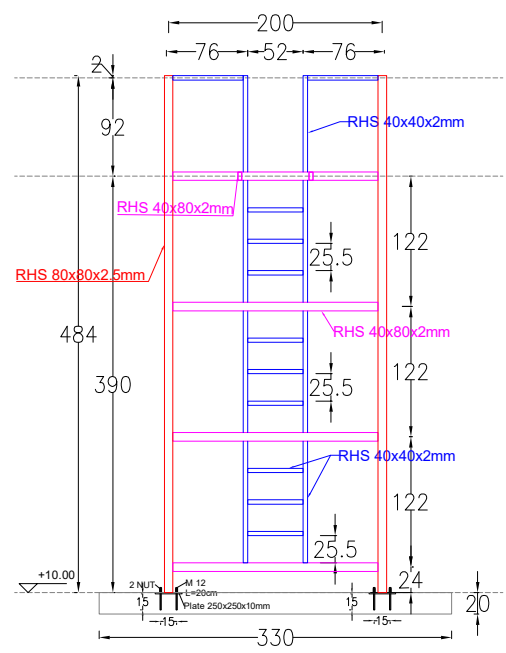




Side view

SCALE 1/25

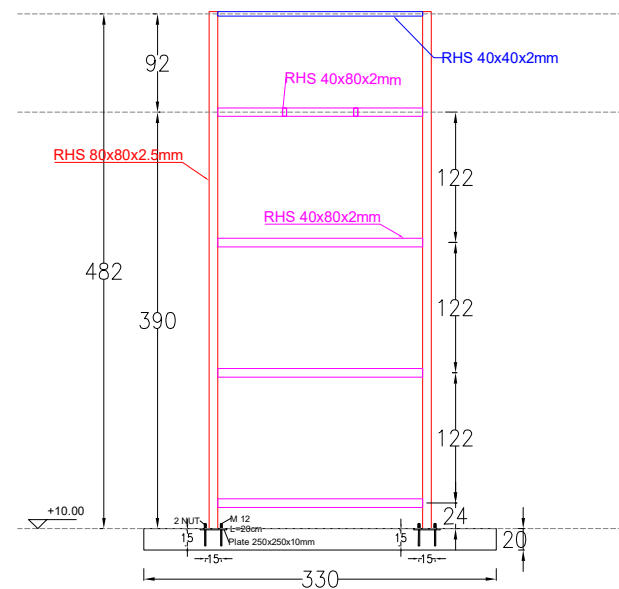
UNIT (cm)



Front view

SCALE 1/25

UNIT (cm)



Back view

SCALE 1/25

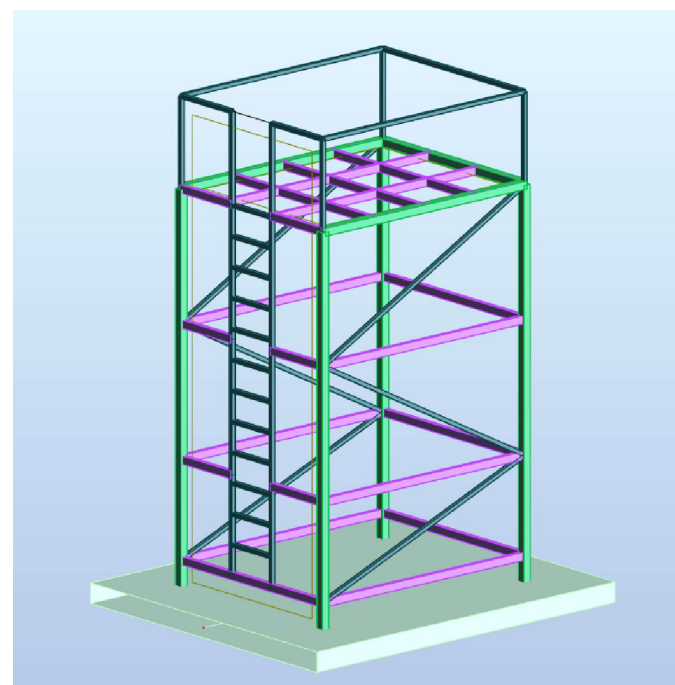
UNIT (cm)

Note:

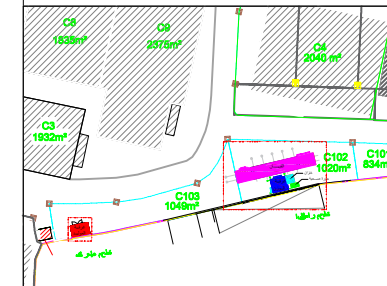
- Galvanized steel checker plate (lentil pattern).
- Minimum thickness: 3 mm.
- **Hot-dip galvanized.**
- Anti-slip surface.
- Fixed on steel chassis.
- Complete with all necessary fixings.
- Installed as per approved shop drawings and engineer's instructions.



GCP-01: Lentil pattern galvanized checker plate.



3D view



Construction of a weighbridge in the Free Zone – Port of Tripoli.

NOTES

Drawing prepared by:
Technical Department at The Port of Tripoli

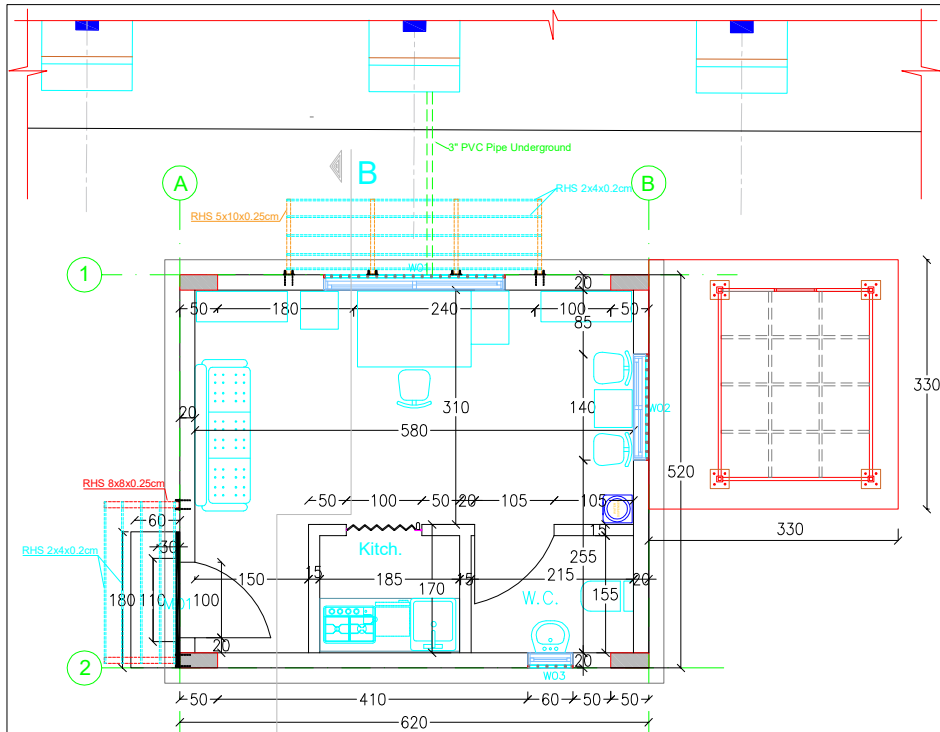
CLIENT:

CONTRACTOR:

CONSULTANT:

LAYOUT TITLE:
Drawings for weighbridge With
Related Room

Drawing title : Electrical Plan		Drawing # : S11
Scale 1/100	Date 30-01-2026	



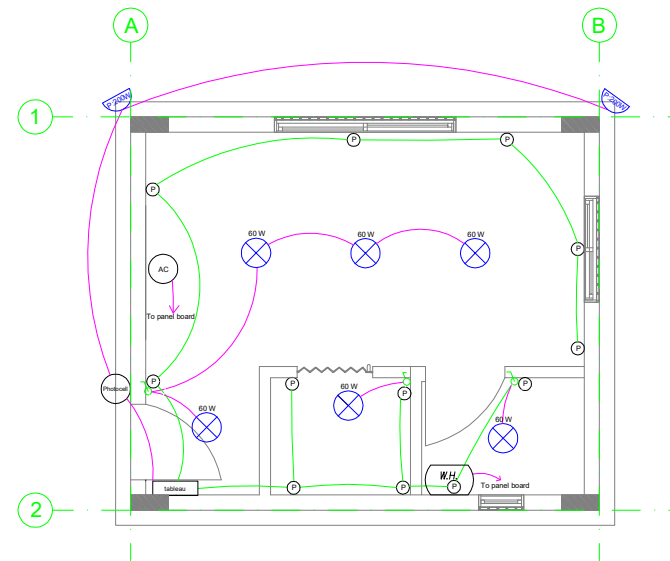
SCALE 1/100

B

PLAN

UNIT (cm)

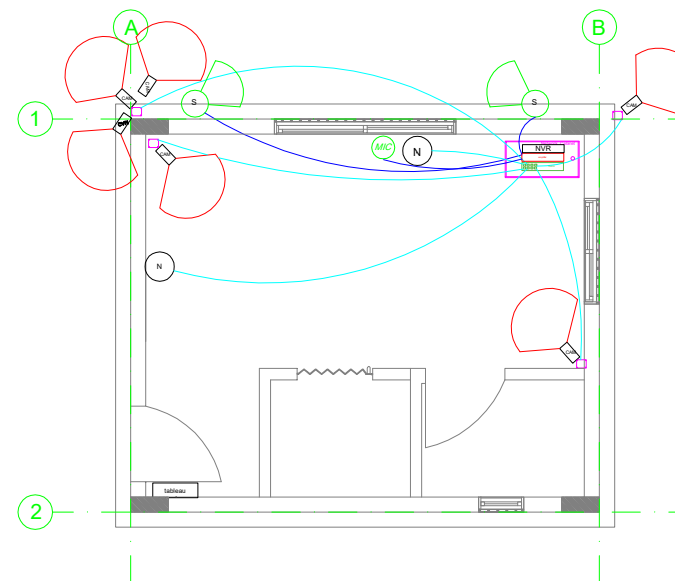
Electrical Legend	
Abreviation	Designation
(W.H)	Water Heater
(AC)	Air Conditioner
(tableau)	Tableau Electrical
(X)	Light
(O)	Socket Electrical
(K)	Key
(P)	Projector
(PC)	Photocell
(MC)	Microphone
(A)	Amplifier
(S)	Speaker
(NC)	Network Cabinet
(8888)	Switch- 8 port
(N)	Network
(C)	Camera Box
(SC)	Security Camera
(NVR)	Network Video Recorder



LIGHTING AND POWER LAYOUT
PLAN

SCALE 1/100

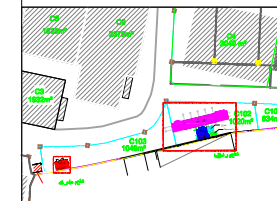
UNIT (cm)



LOW CURRENT LAYOUT
PLAN

SCALE 1/100

UNIT (cm)



Construction of a
weighbridge in the Free
Zone – Port of Tripoli.

NOTES

Drawing prepared by:
Technical Department at The Port of Tripoli

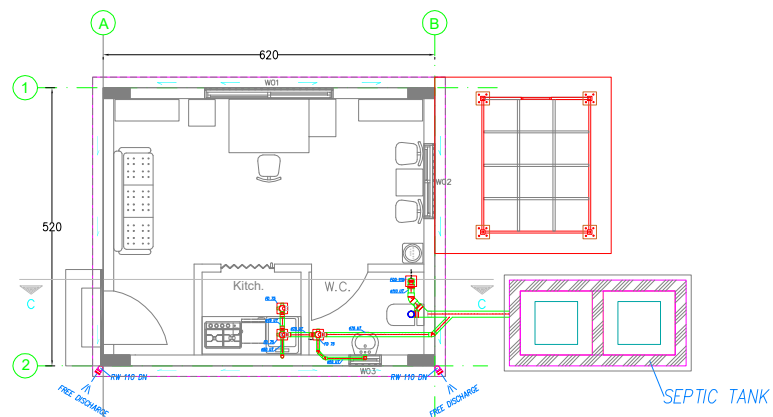
CLIENT:

CONTRACTOR:

CONSULTANT:

LAYOUT TITLE:
Drawings for weighbridge With
Related Room

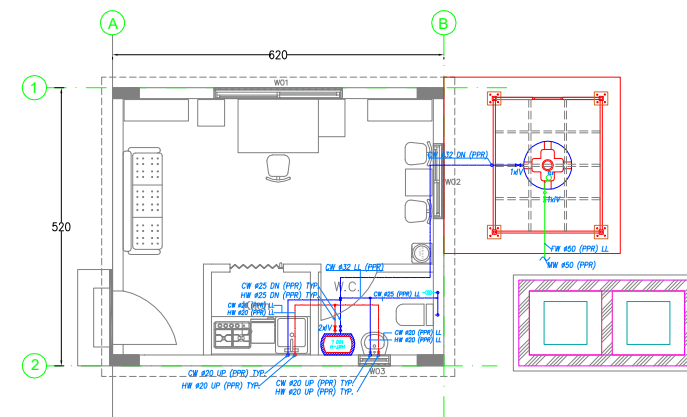
Drawing title :		Drawing # : S12
Mechanical Plan Details		
Scale 1/100	Date 30-01-2026	



SEWER AND STORMWATER
DRAINAGE PLAN

SCALE 1/100

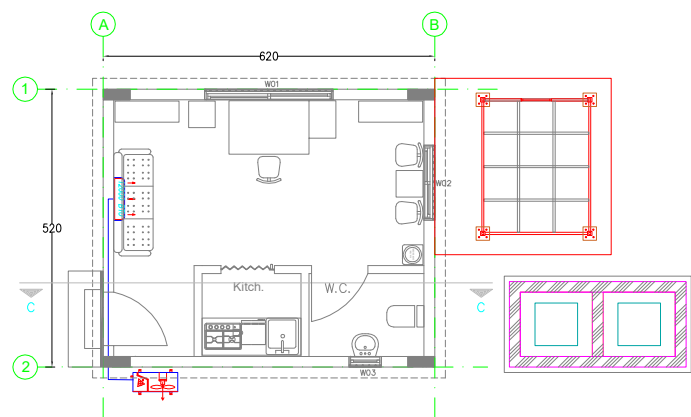
UNIT (cm)



WATER DISTRIBUTION PLAN

SCALE 1/100

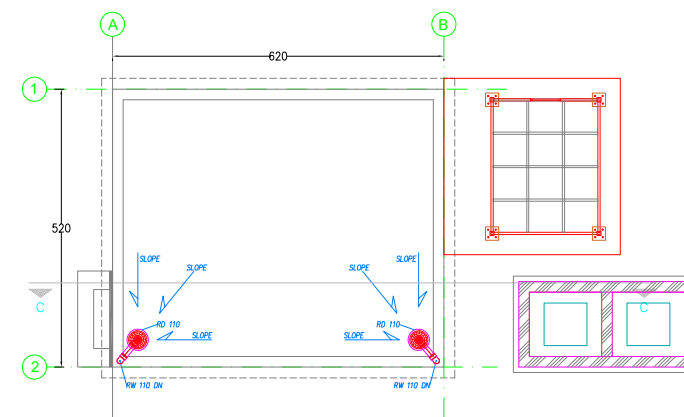
UNIT (cm)



HEATING & COOLING LAYOUT PLAN

SCALE 1/100

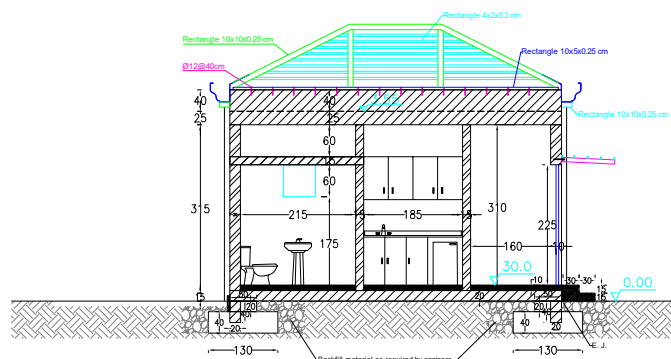
UNIT (cm)



DRAINAGE-RAIN PLAN

SCALE 1/100

UNIT (cm)



Section C-C

SCALE 1/100

UNIT (cm)

PLUMBING LEGEND	
ABBREVIATIONS	DESIGNATION
DN	DOWN
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
RD	ROOF DRAIN
RWP	RAIN WATER PIPE
L	LITER
LL	LOW LEVEL
UP	UP
UT	UNDER TILE
UG	UNDER GROUND
MW	MUNICIPALITY WATER
CW	COLD WATER
HW	HOT WATER
FW	FILING WATER
HWT	HOT WATER TANK
Ø	DIAMETER
IV	ISOLATING BRONZE GATE VALVE
FLV	FLOAT VALVE
RVC	ROOF VENT CAP



UNIT (cm)



UNIT (cm)

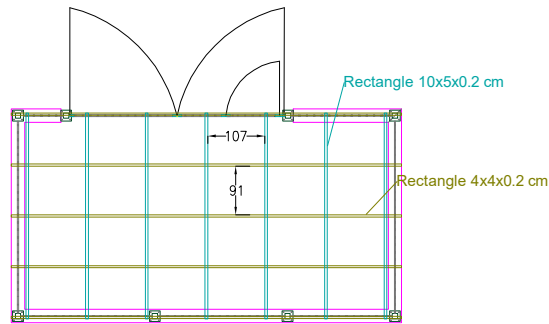


UNIT (cm)



UNIT (cm)

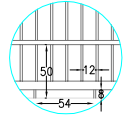
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Scale	Date	
1/100	30-01-2026	



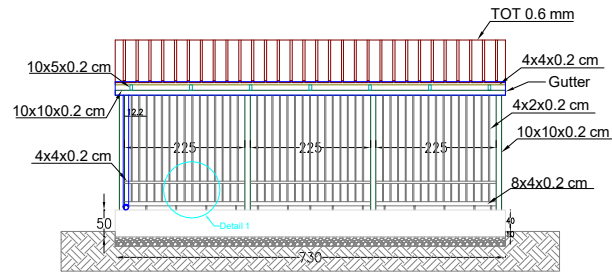
Roof Details

SCALE 1/100

UNIT (cm)



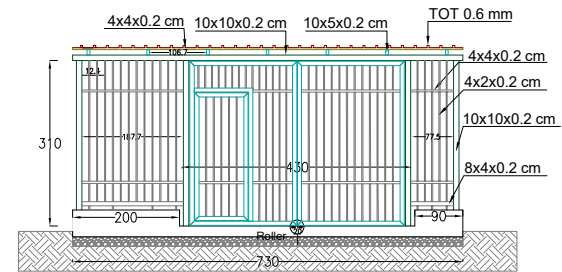
Detail 1
SCALE 1/50



Back View

SCALE 1/100

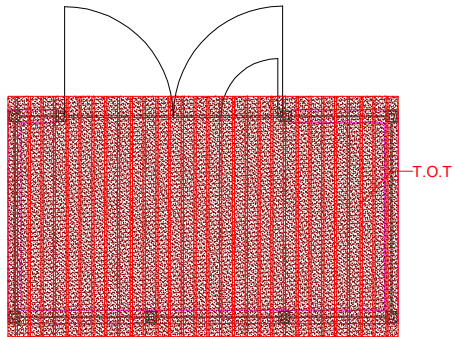
UNIT (cm)



Front View

SCALE 1/100

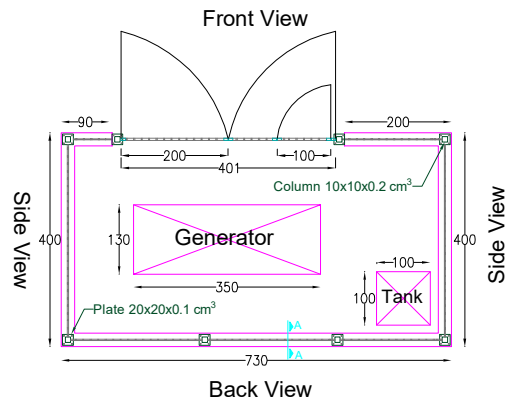
UNIT (cm)



Top View

SCALE 1/100

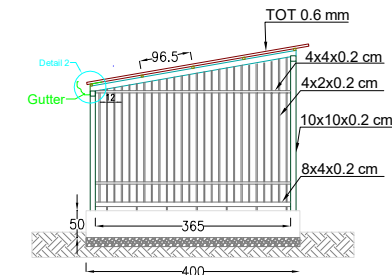
UNIT (cm)



Plan View

SCALE 1/100

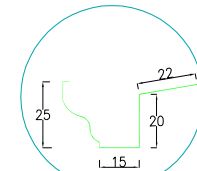
UNIT (cm)



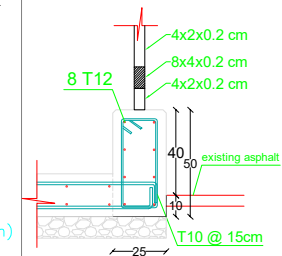
Side View

SCALE 1/100

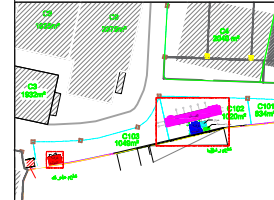
UNIT (cm)



Detail 2
SCALE 1/20



Sec A-A
SCALE 1/25



NOTES

Drawing prepared by:
Technical Department at The Port of Tripoli

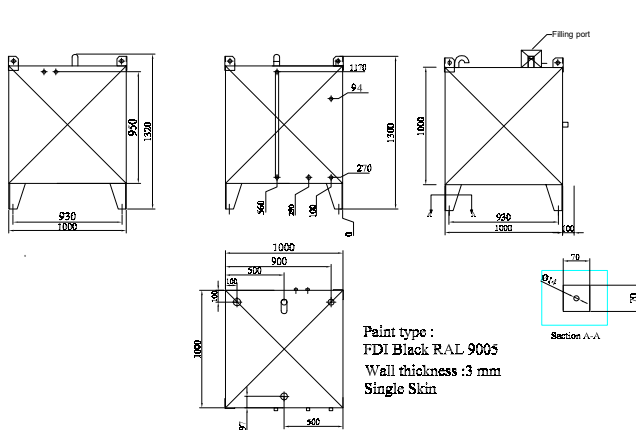
CLIENT:

CONTRACTOR:

CONSULTANT:

LAYOUT TITLE:
Drawings for weighbridge With
Related Room

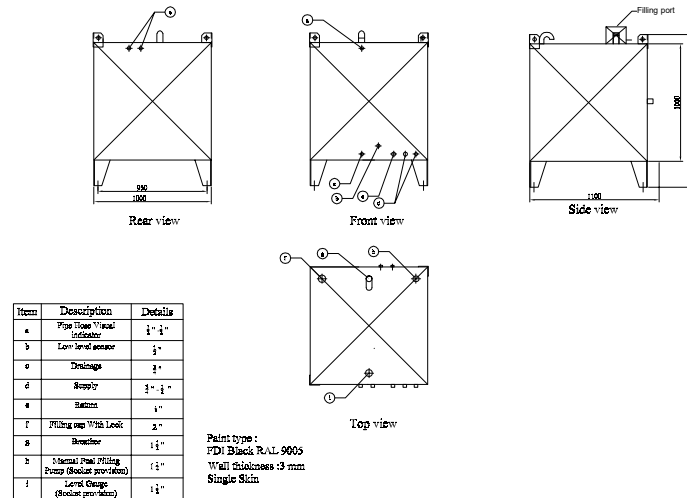
Drawing title : Generator Shelter Structure	Drawing # : S14
Scale : --	Date : 30-01-2026



Fuel Tank 1000L Outline Dimension

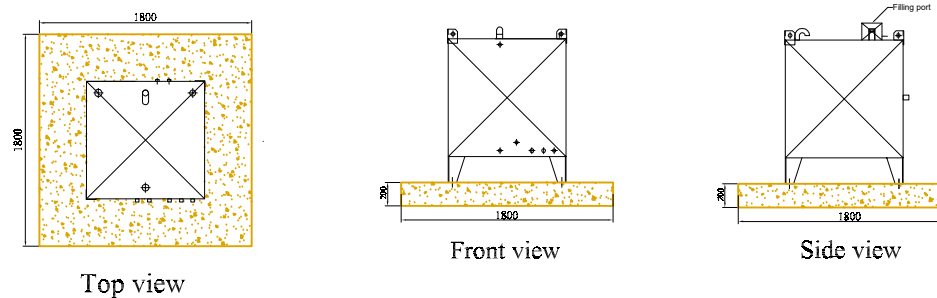
SCALE 1/50

UNIT (mm) SCALE 1/50



Fuel Tank 1000L Tagging

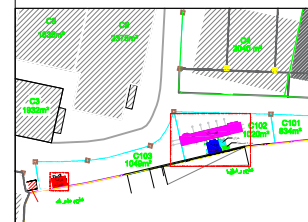
UNIT (mm)



Fuel Tank 1000L Concrete Foundation

SCALE 1/50

UNIT (mm)

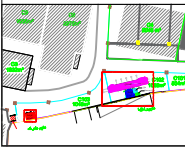


Construction of a weighbridge in the Free Zone – Port of Tripoli.

NOTES

–All tank openings shall be provided with steel covers and padlocks with painting as per engineer request .

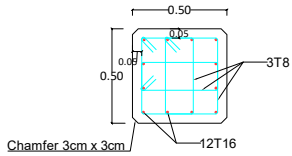
Drawing prepared by: Technical Department at The Port of Tripoli	
CLIENT:	
CONTRACTOR:	
CONSULTANT:	
LAYOUT TITLE: Drawings for weighbridge With Related Room	
Drawing title: Fuel Tank Details	Drawing #: S15
Scale: --	Date: 30-01-2026



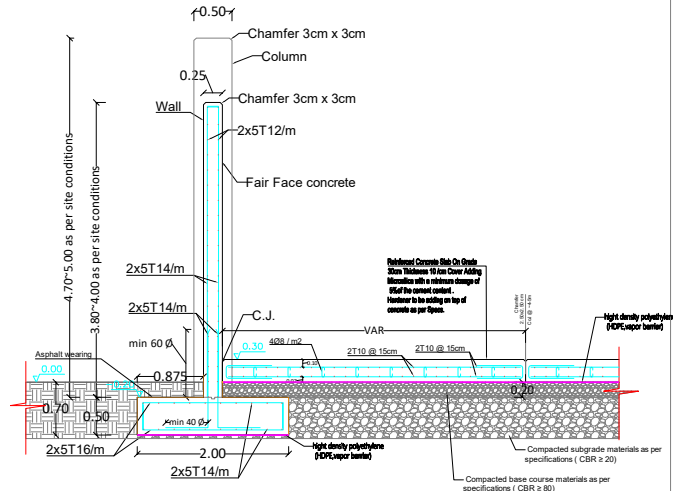
Construction of a
weighbridge in the Free
Zone – Port of Tripoli.

NOTES

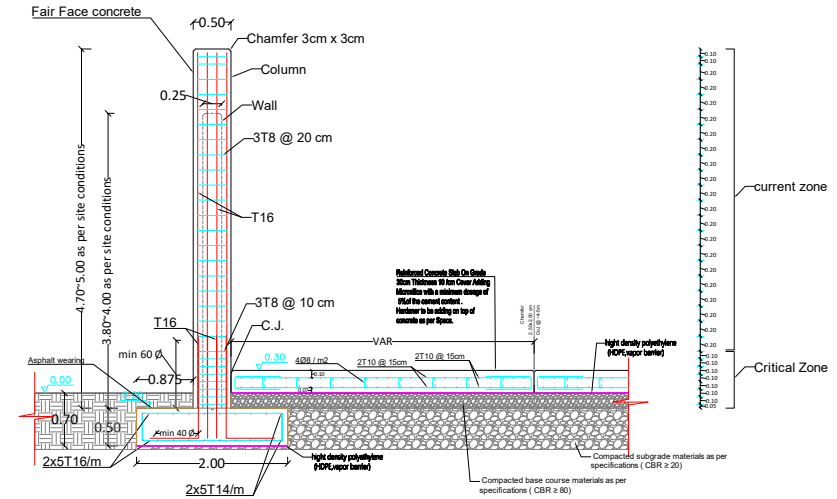
- C.J. : Construction joint
- E.J. : Expansion joint



Typical Column
Reinforcement Detail



Typical Wall-to-Foundation Reinforcement
Detail in the Container Yard



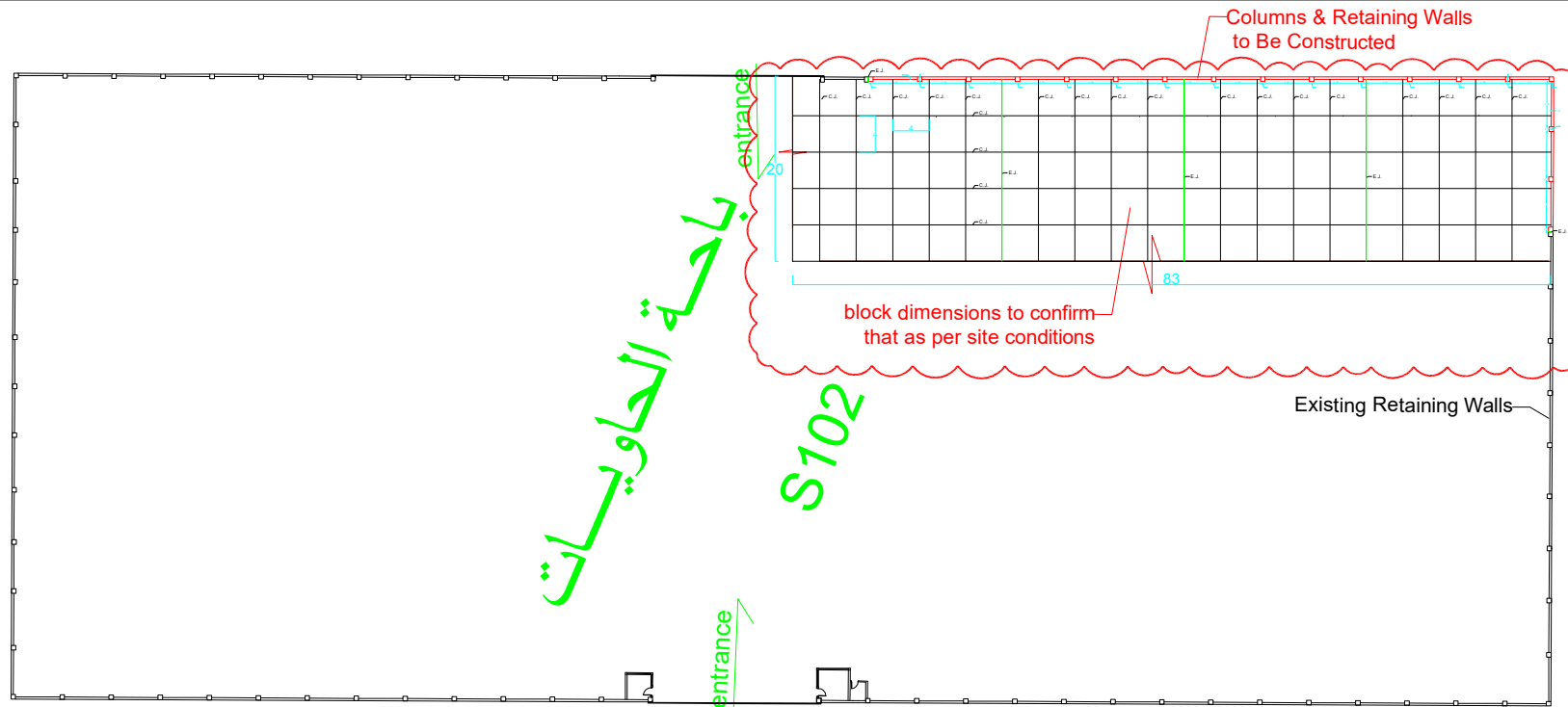
Typical Column-to-Foundation
Reinforcement Detail in the Container Yard

SCALE 1/20

UNIT (m) SCALE 1/50

UNIT (m) SCALE 1/50

UNIT (m)



Retaining Walls Plan

SCALE 1/400

UNIT (m)