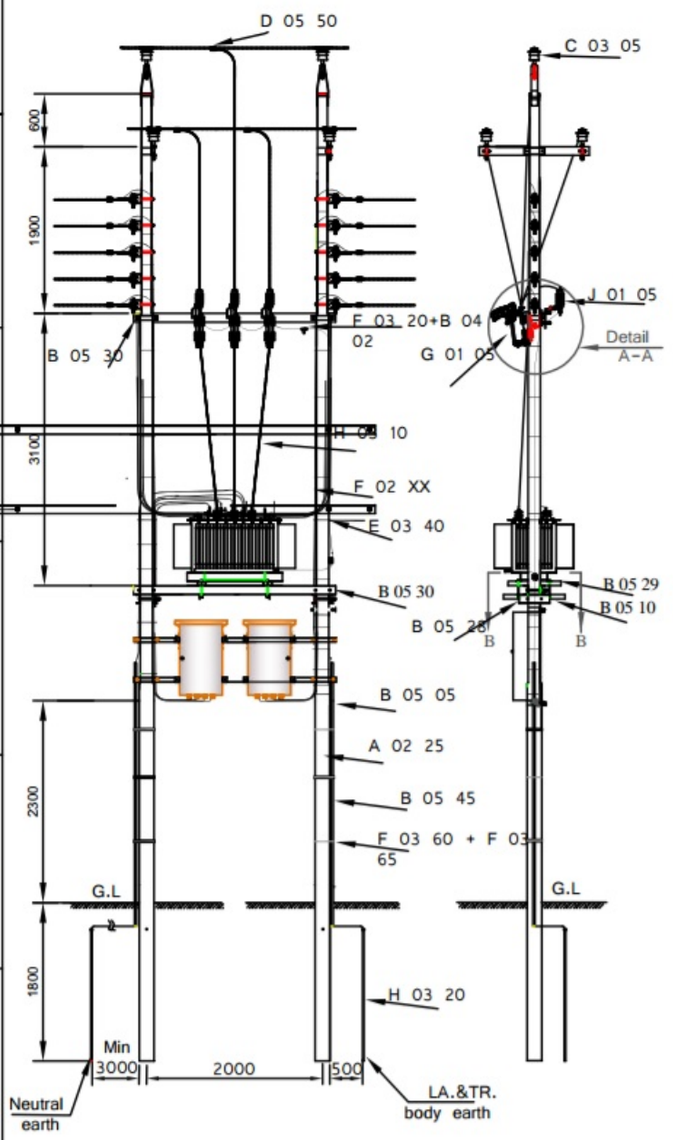
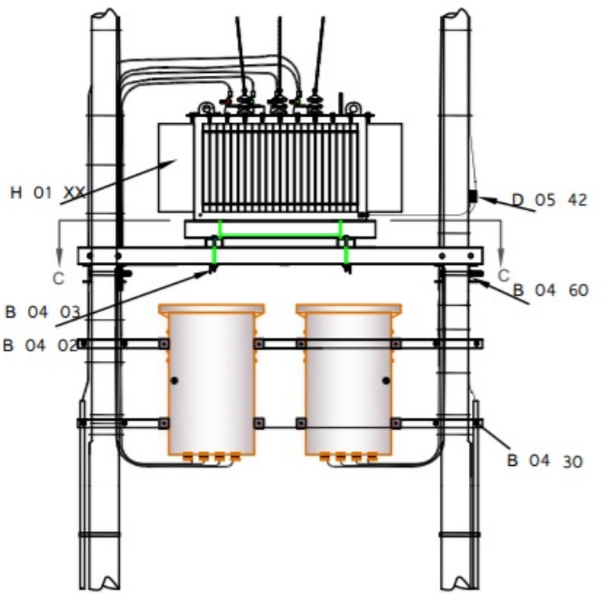
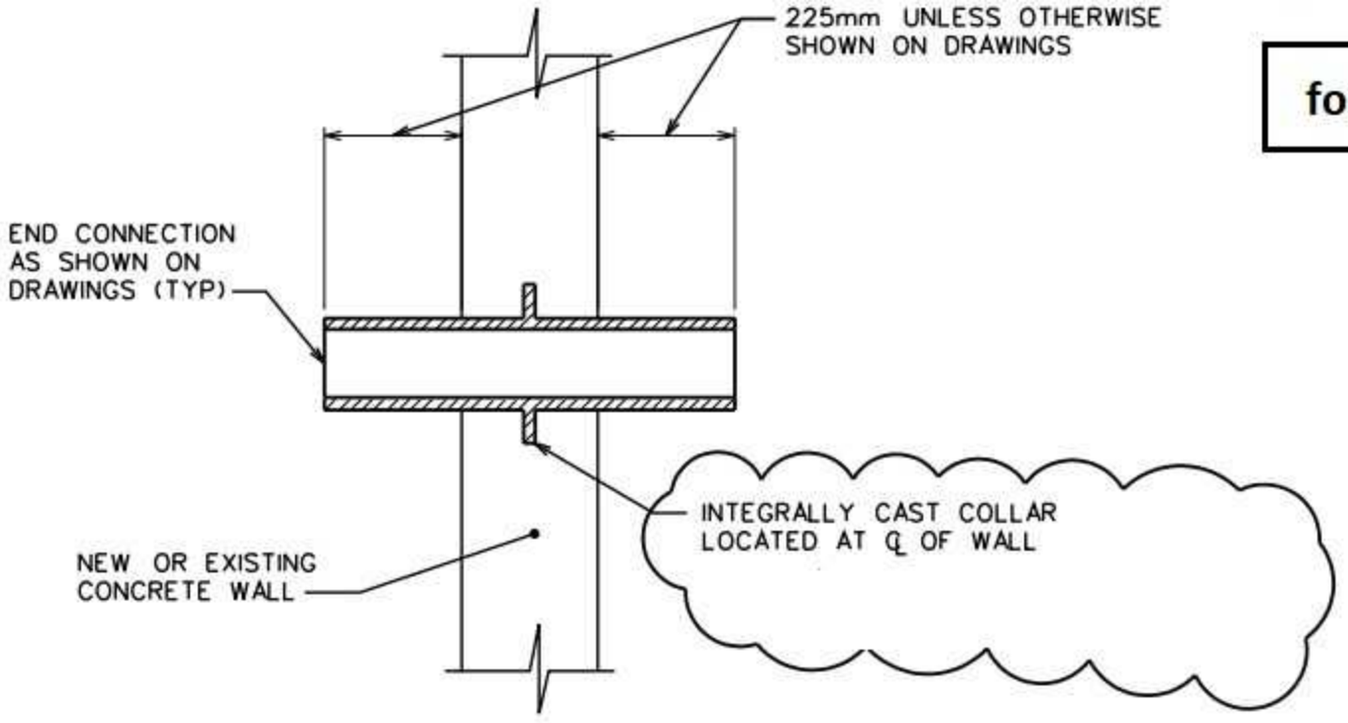




All dimensions are in mm

DISTRIBUTION STANDARDS AND SPECIFICATIONS

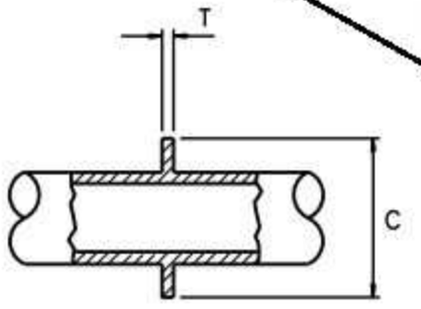
DISTRIBUTION TRANSFORMER CONSTRUCTION



WALL PIPE
DUCTILE IRON

NTS

for Hatra reservoir

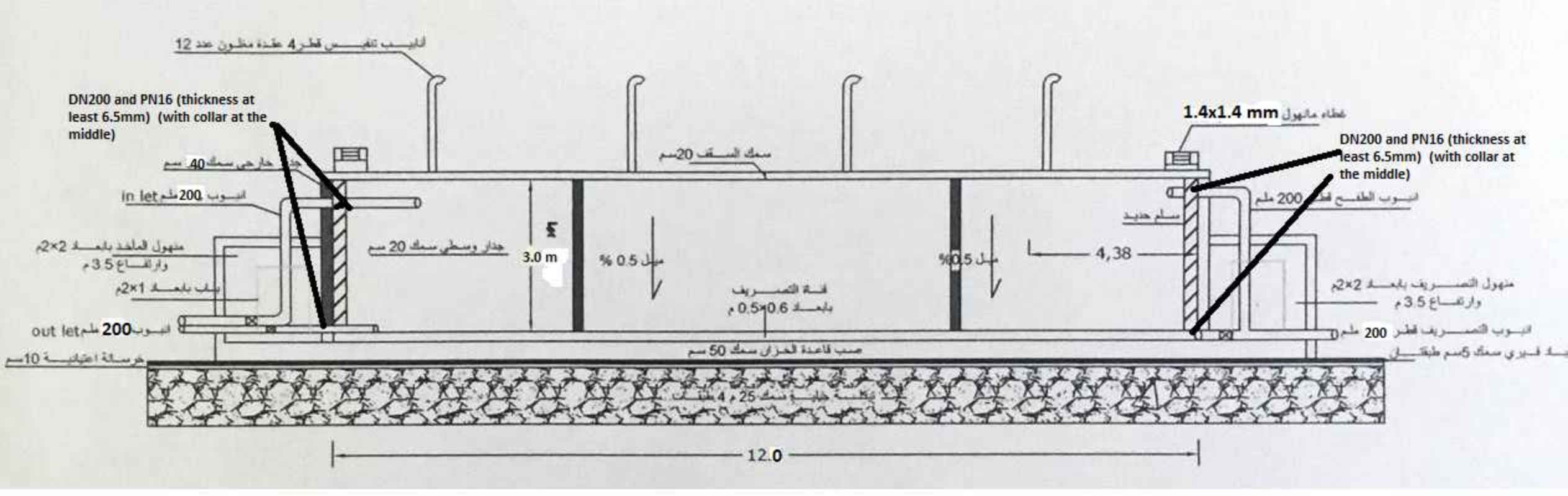


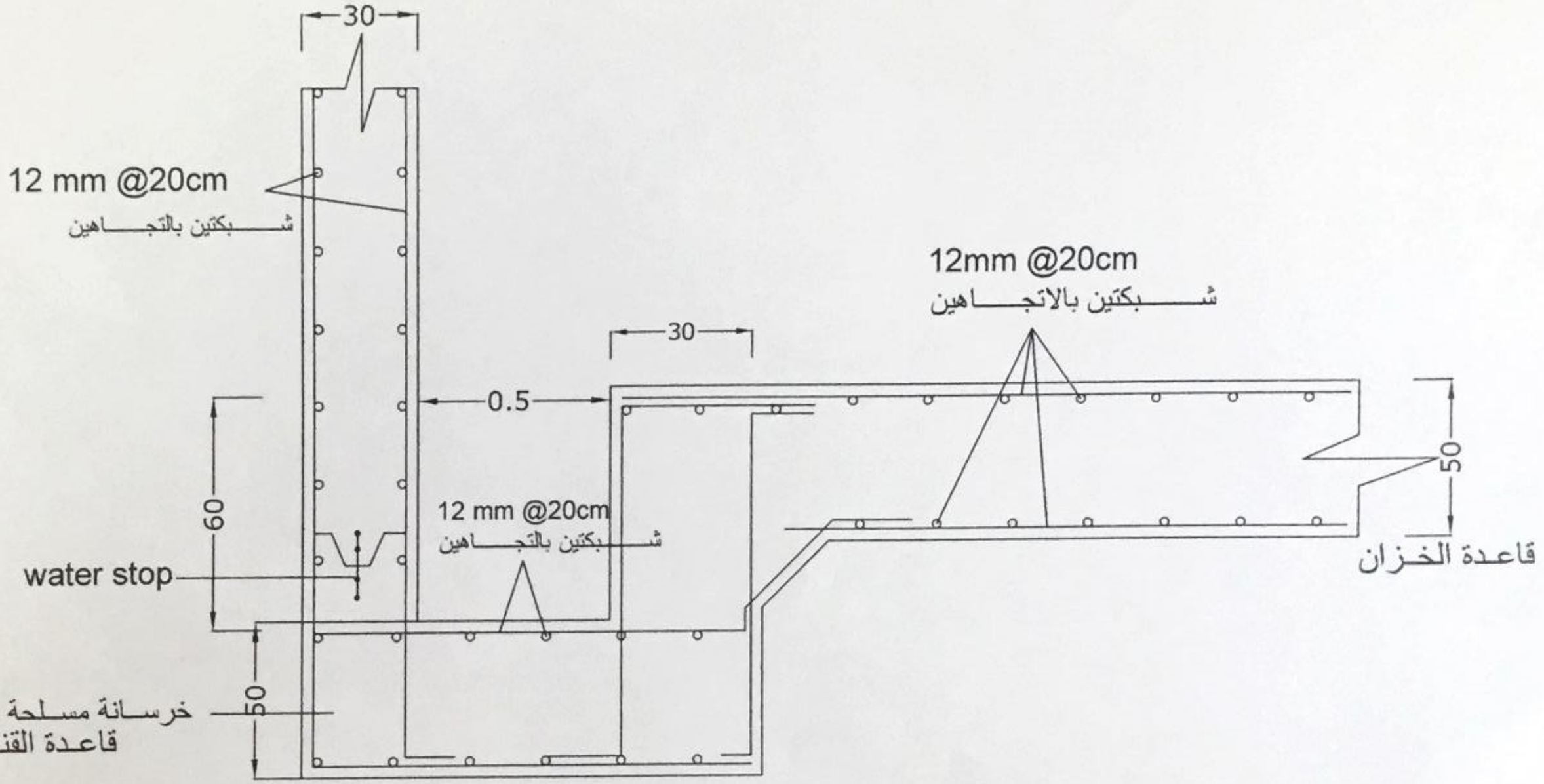
MINIMUM DIMENSIONS

NOMINAL PIPE DIA (mm)	T THICKNESS (mm)	C DIAMETER (mm)
100	12	200
150	12	250
200	12	300
250	12	350
300	12	400
350	19	500
400	19	550
450	19	600
500	19	650
600	19	750
700	25	900
900	25	1100
1000	25	1200
1200	31	1400
1400	38	1600

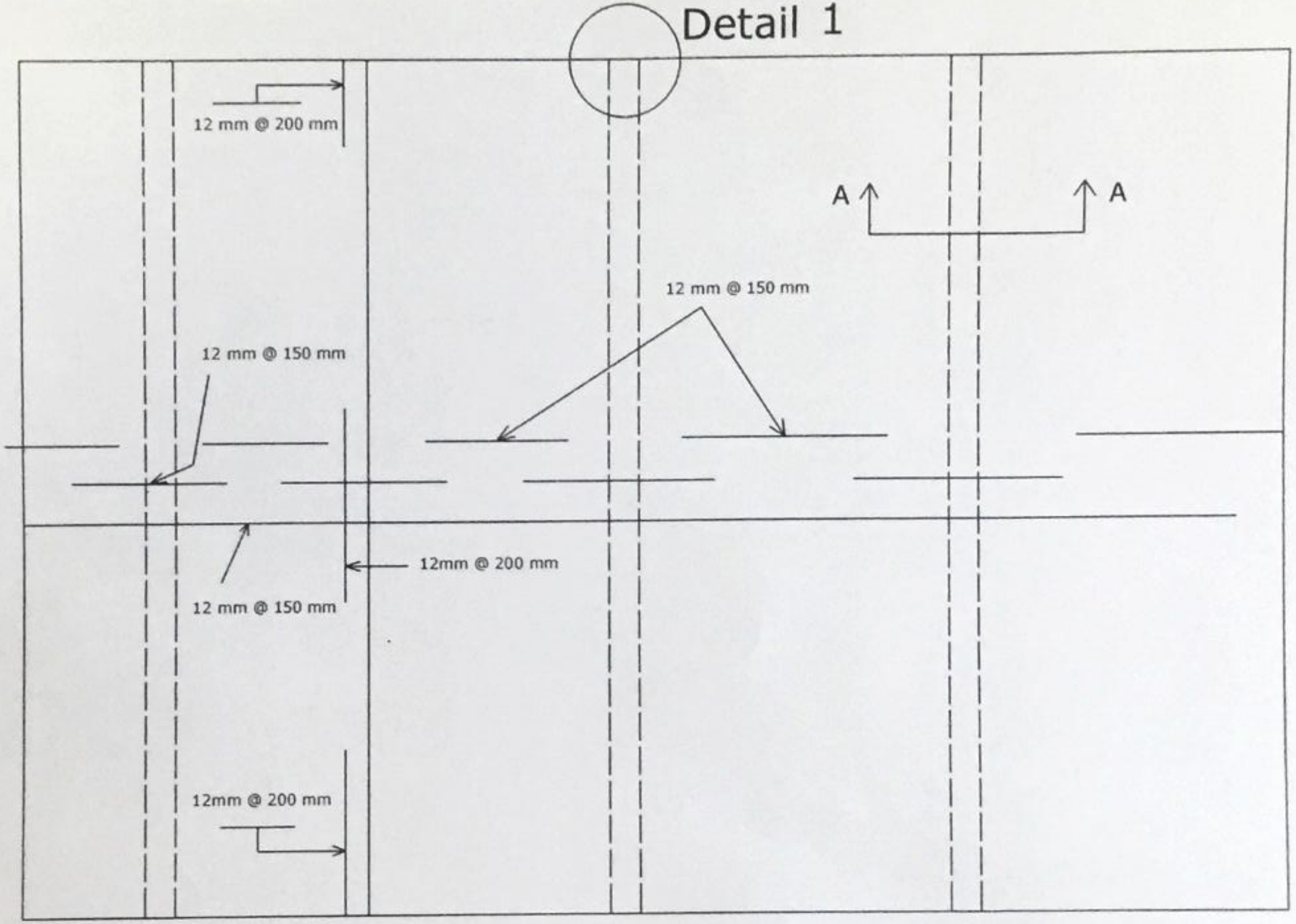
COLLAR DIMENSIONS
DUCTILE IRON
WALL AND FLOOR PIPE

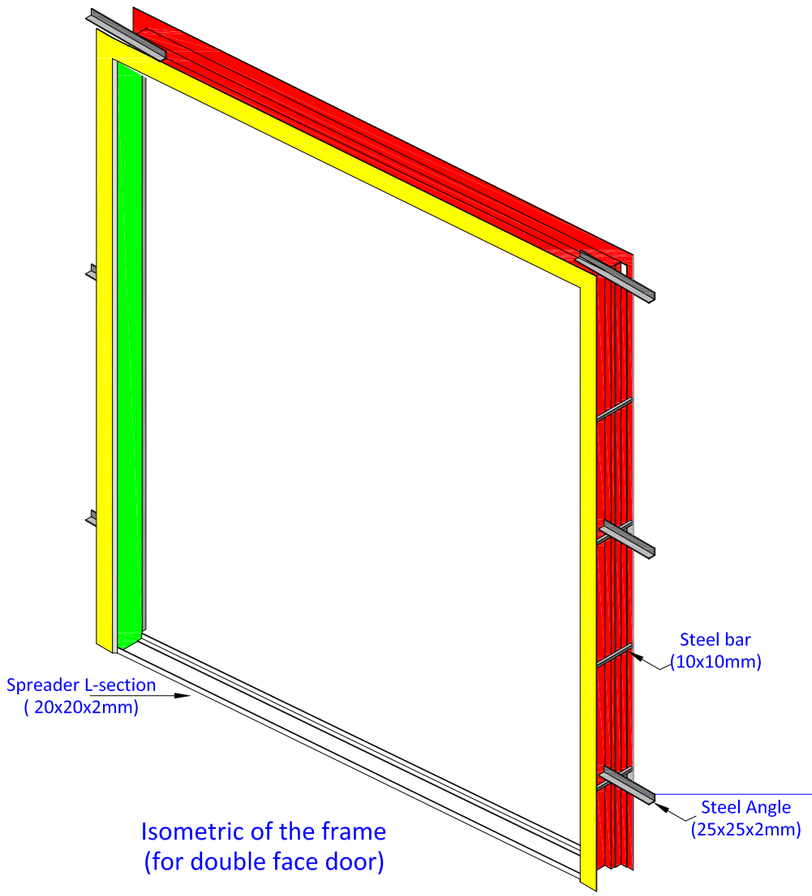
NTS


DN200 and PN16 (thickness at least 6.5mm) (with collar at the middle)
1.4x1.4 mm
DN200 and PN16 (thickness at least 6.5mm) (with collar at the middle)
in let
out let 200
3.0 m
4,38
12.0

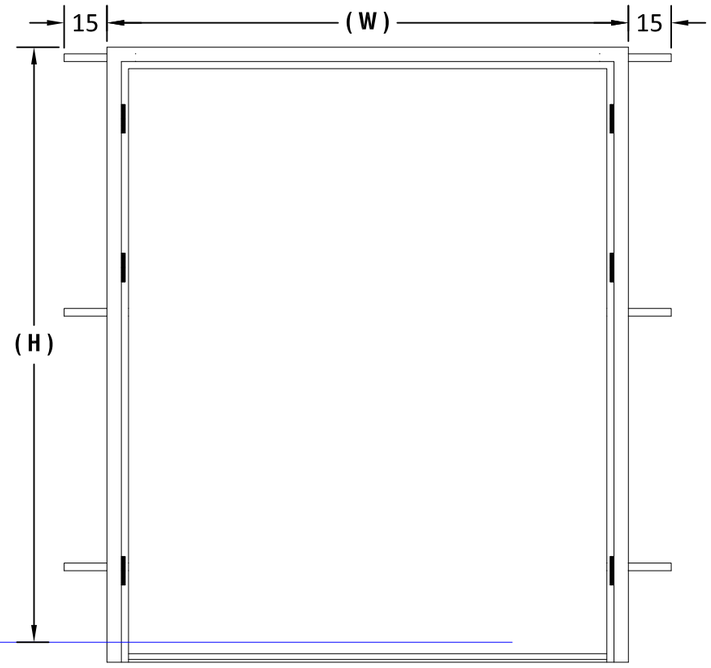

30
12 mm @20cm
شـــبكتين بالتجـــاهين
12mm @20cm
شـــبكتين بالاتجـــاهين
30
0.5
50
60
12 mm @20cm
شـــبكتين بالتجـــاهين
water stop
قاعـدة الخـزان
50
خرسـانة مسـلحة 1:1.5:3
قاعـدة القنـــاة

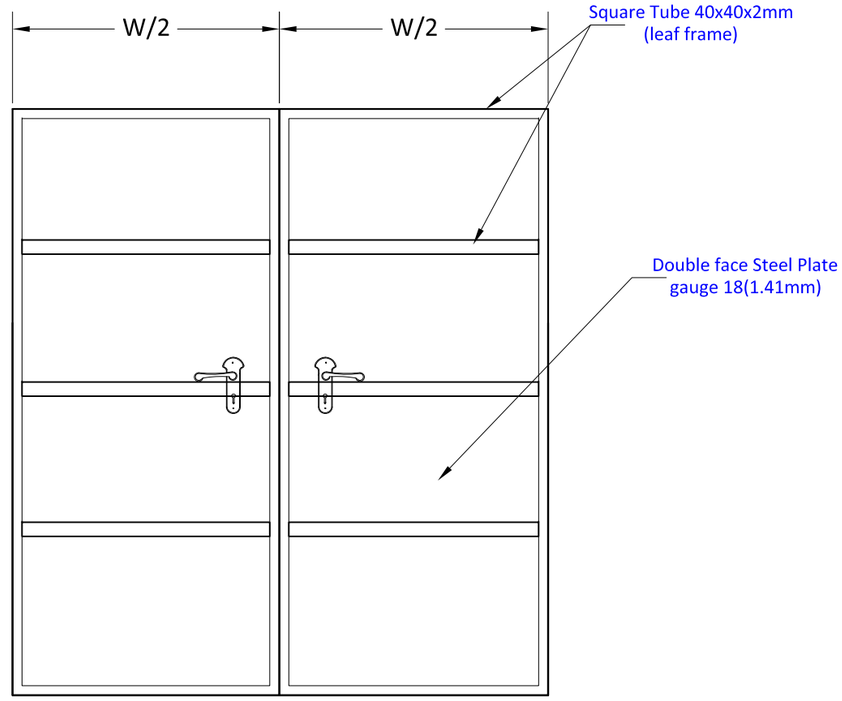
Detail 1

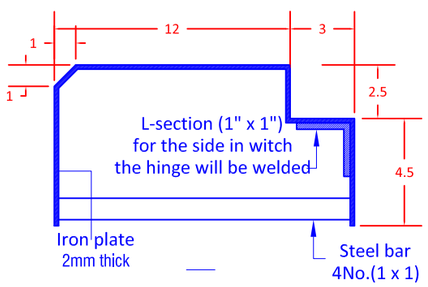

12 mm @ 200 mm
A
A
12 mm @ 150 mm
12 mm @ 150 mm
12mm @ 200 mm
12 mm @ 150 mm
12mm @ 200 mm



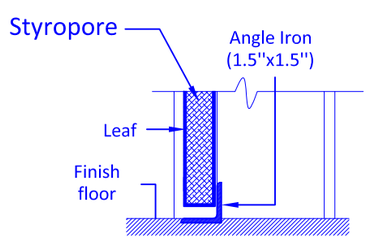
Isometric of the frame
(for double face door)







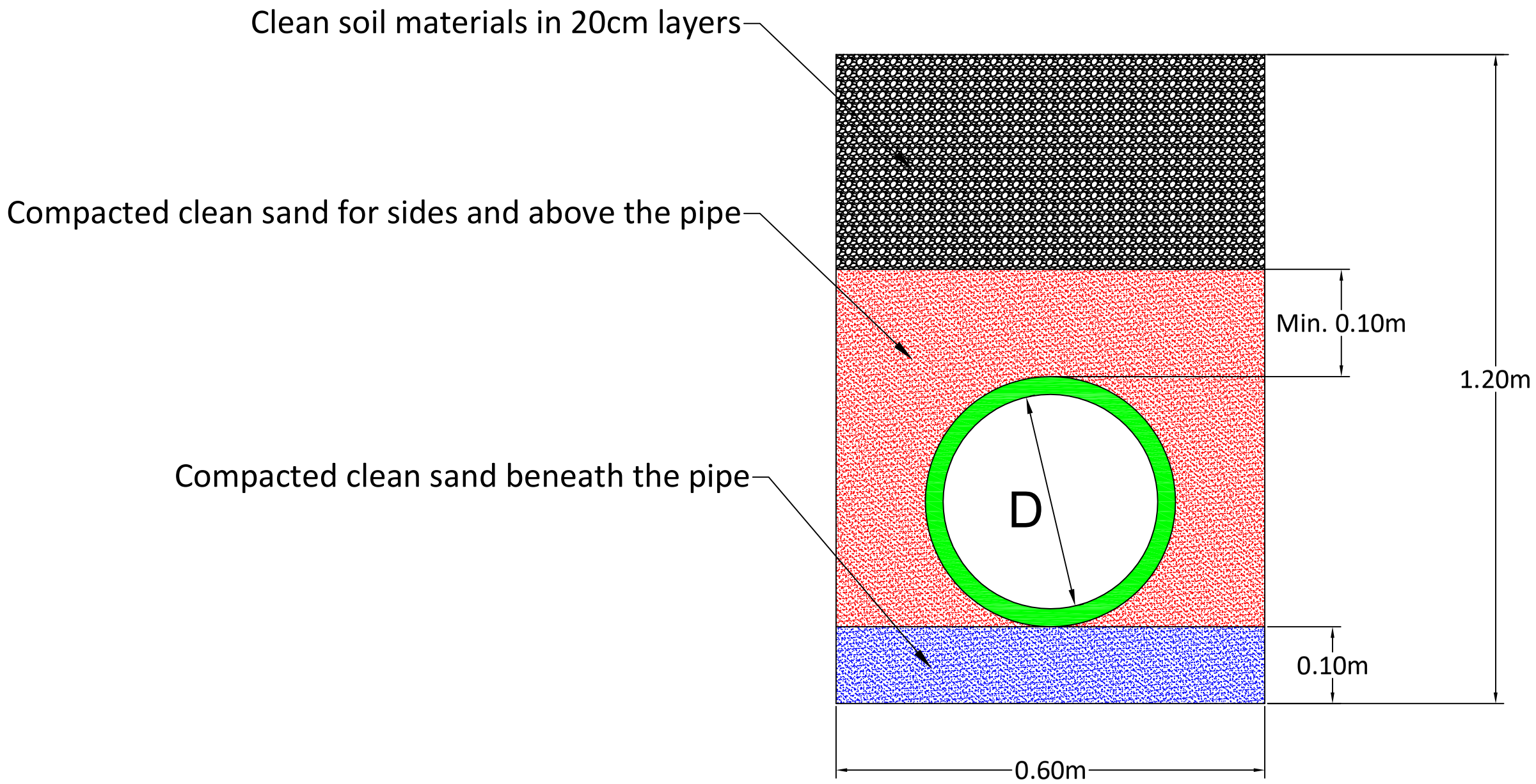
Cross section
at frame door
(for double face)



Detail for
external doors
only

Detail of Steel Door

Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: Detail of Double Leaves Steel Door		
Scale: NTS	Date:	DWG No.



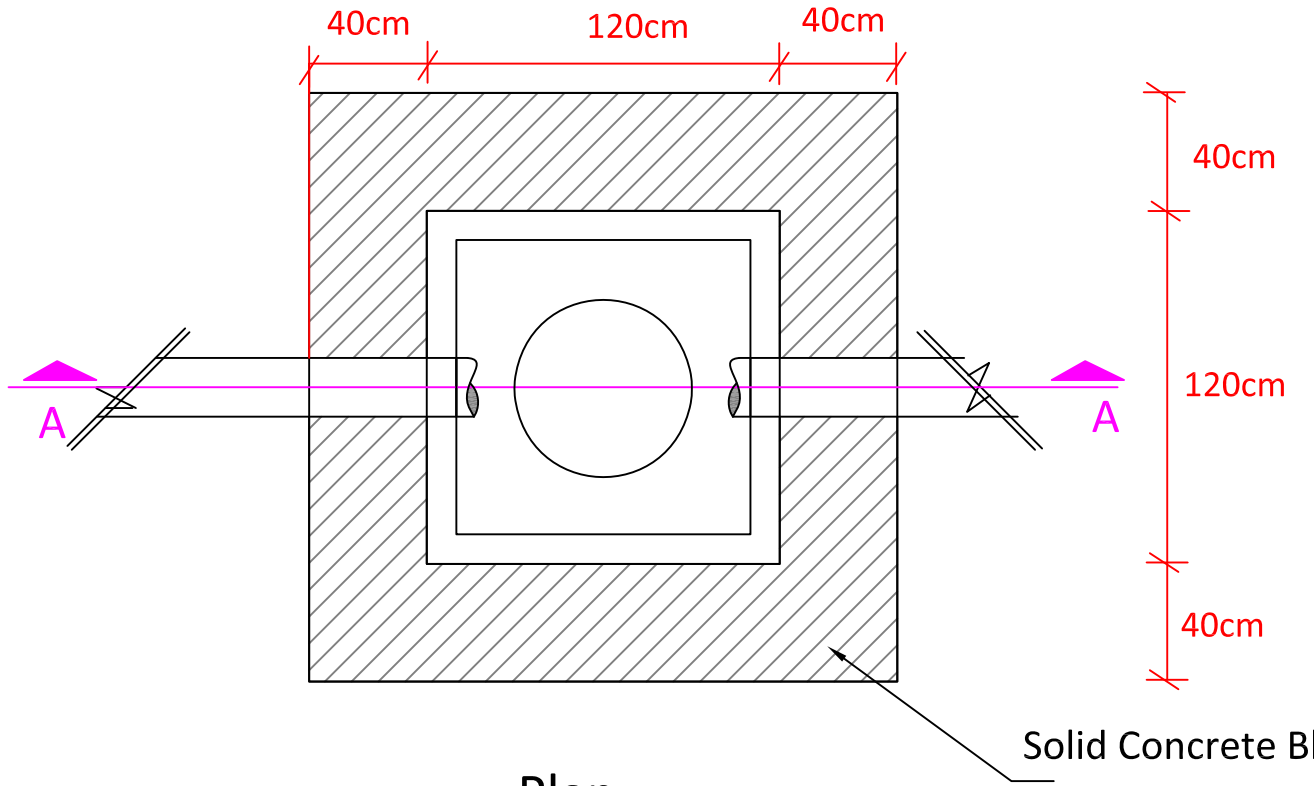
Typical Drawings for Renovation

Drawn by: Soran Rostam Aziz

Sheet Title:

Detail of Laying pipes

Scale: NTS	Date:	DWG No.

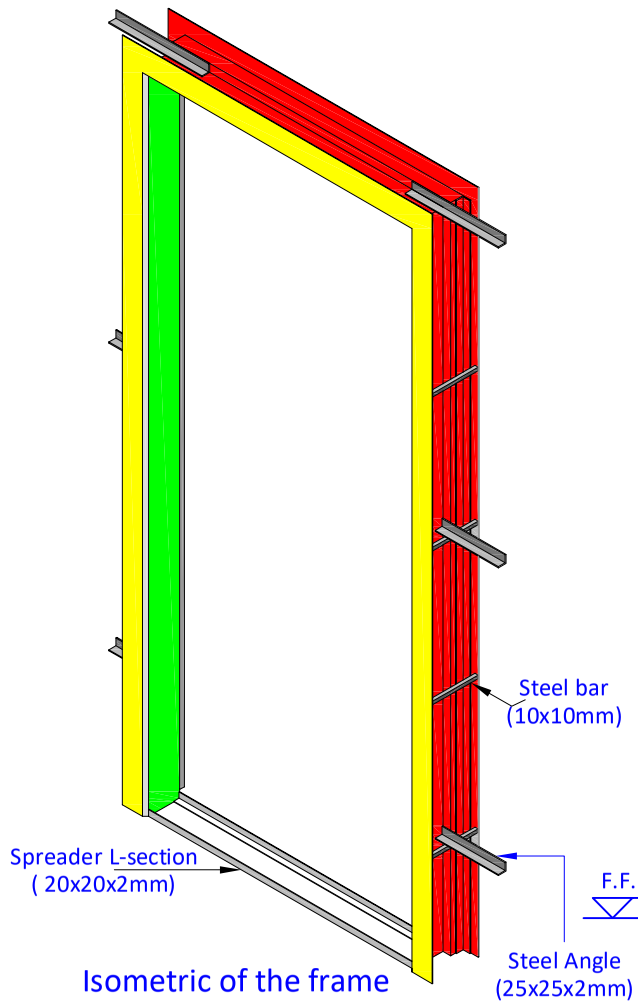


Plan

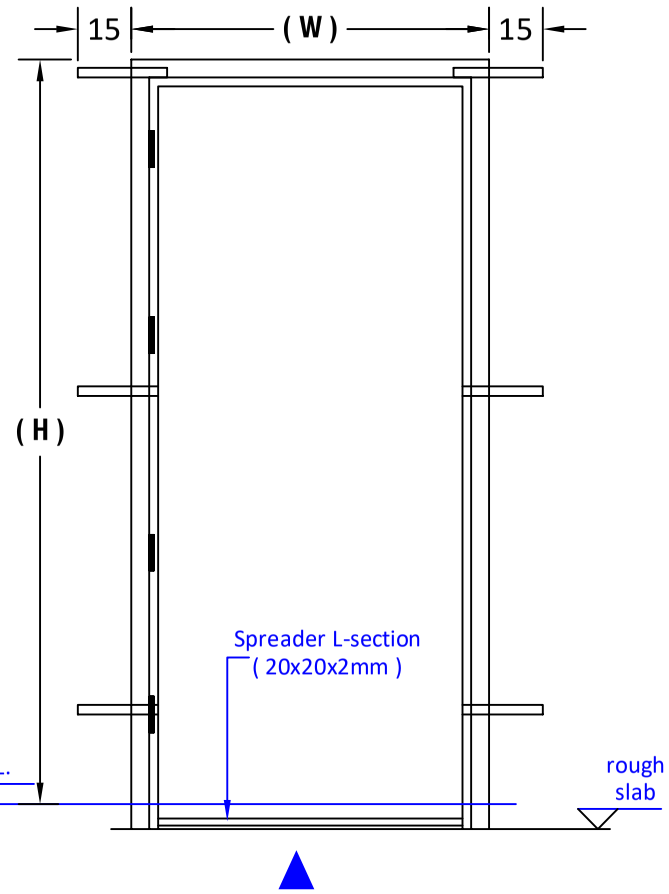
Section A-A

Typical Detail of Manhole 1.2x1.2x1.2m

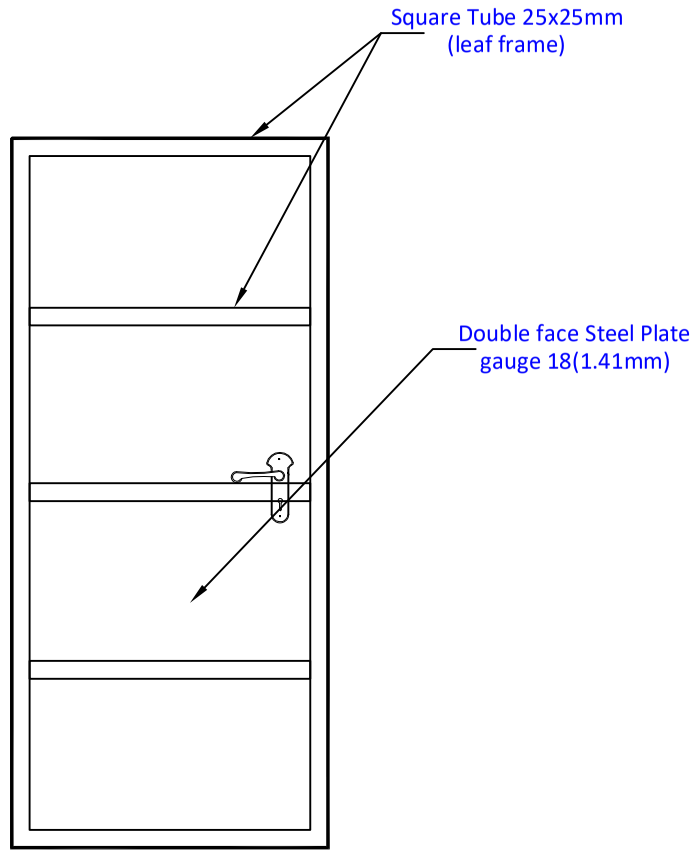
Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: Typical Detail of Manhole		
Scale: NTS	**Date:**	**DWG No.**



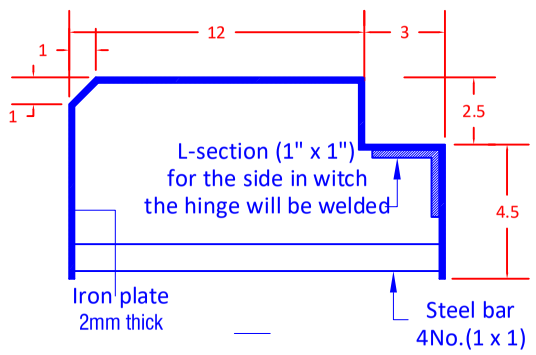
Isometric of the frame
(for double face door)



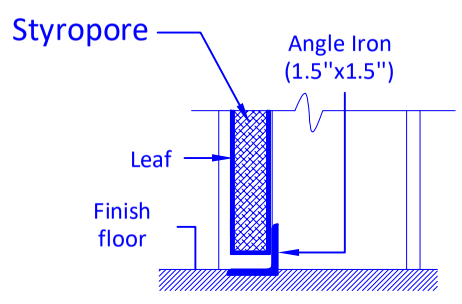
Elevation of the frame
(for double face door)



Leaf detail
for double face door



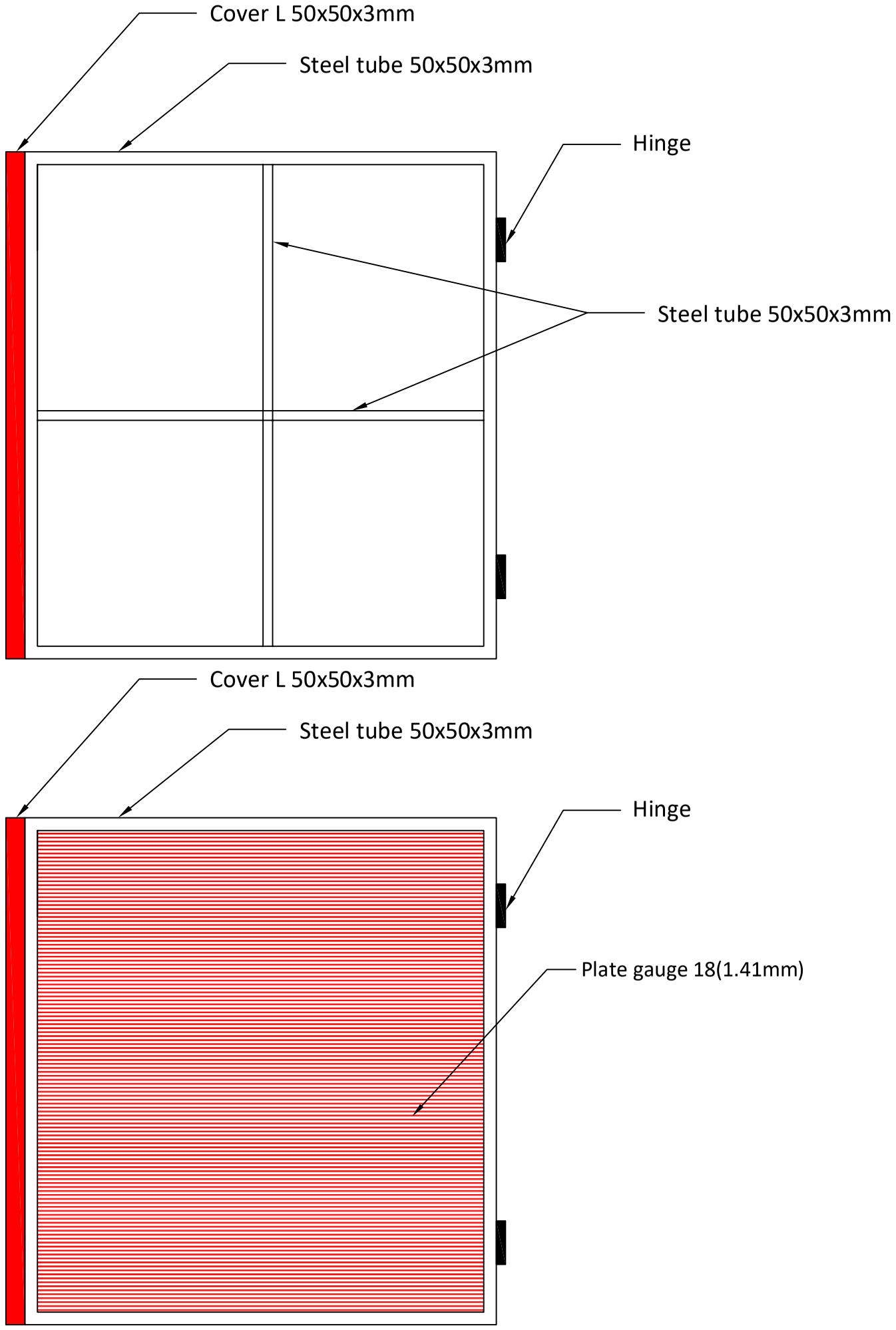
Cross section
at frame door
(for double face)

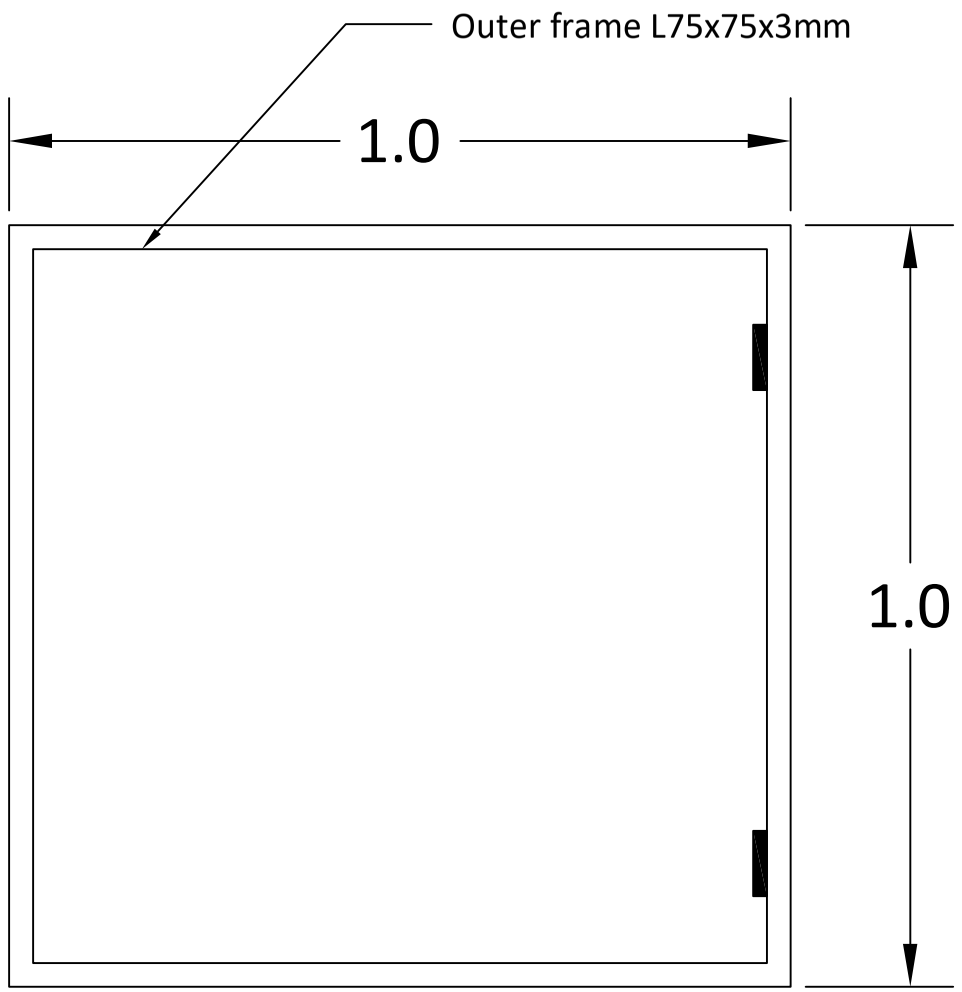


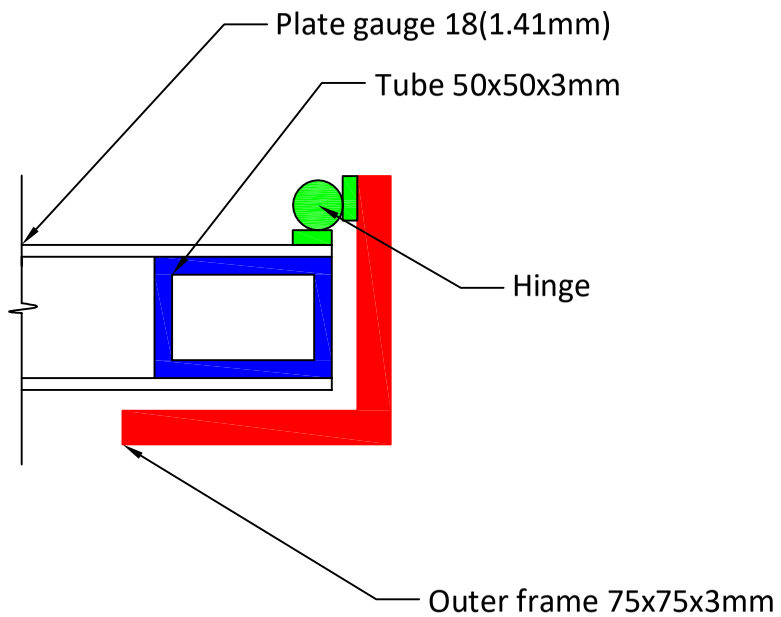
Detail for
external doors
only

Detail of Steel Door

Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: Detail of Single Leaf Steel Door		
Scale: NTS	Date:	DWG No.





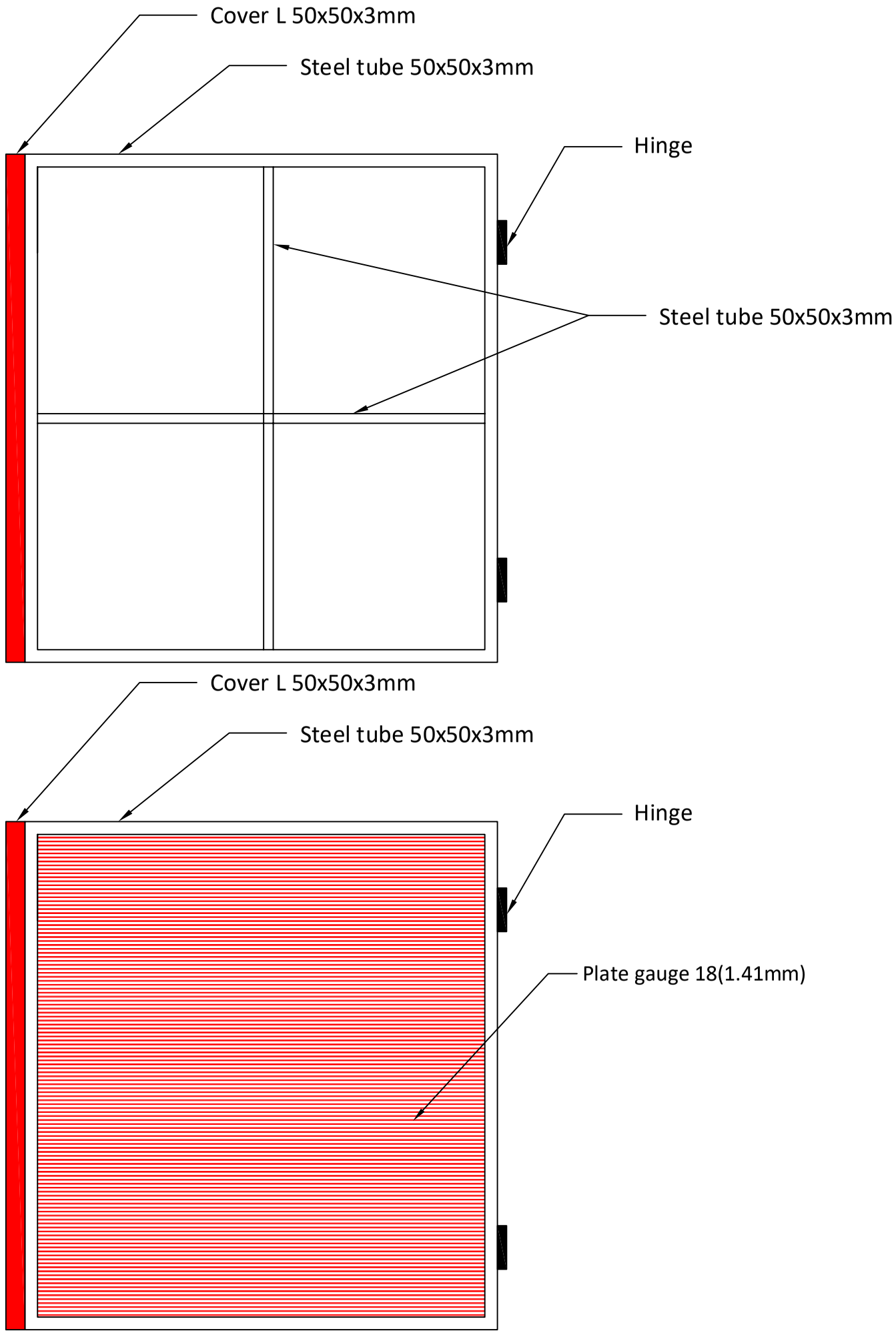


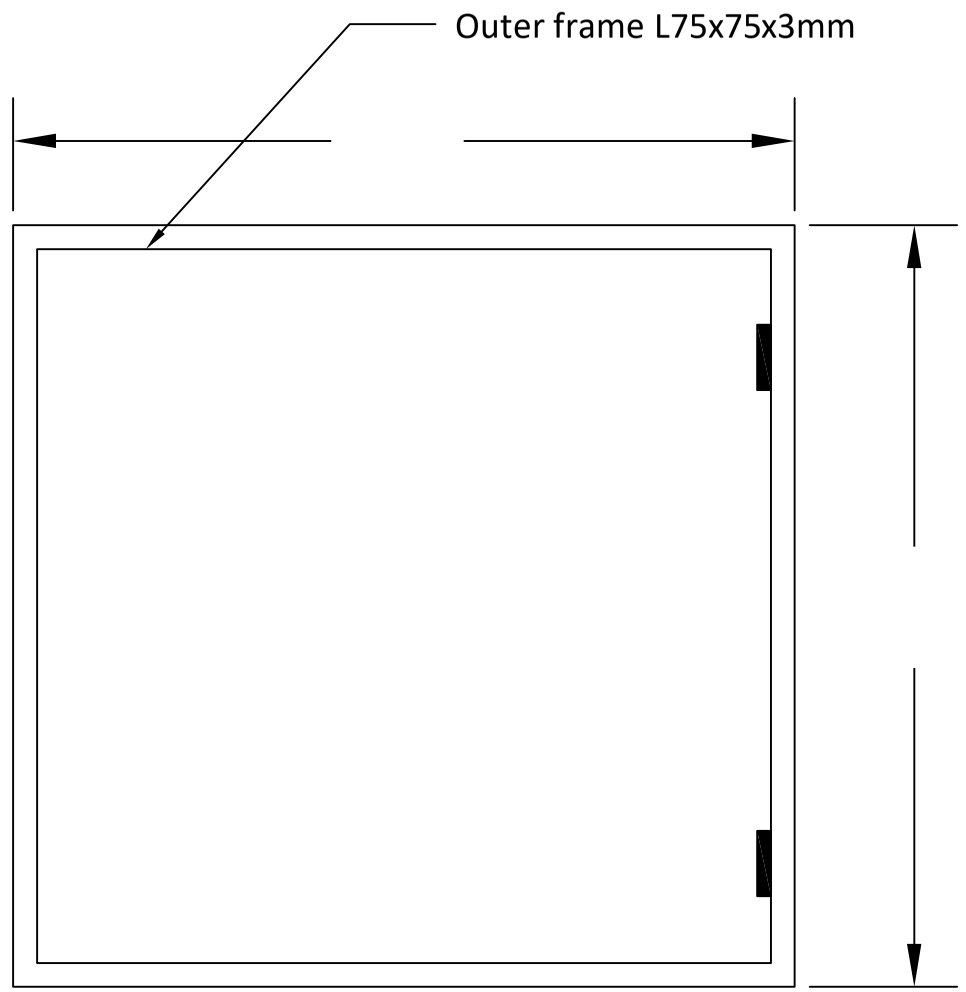
Typical Drawings for Renovation

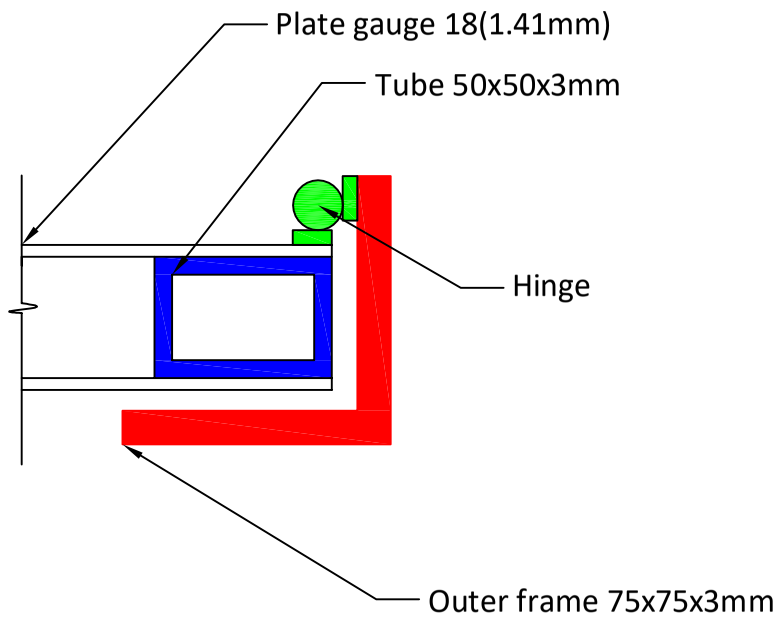
Drawn by: Soran Rostam Aziz

Sheet Title:
Detail of Door 1.0x1.0m

Scale: NTS	**Date:**	**DWG No.**





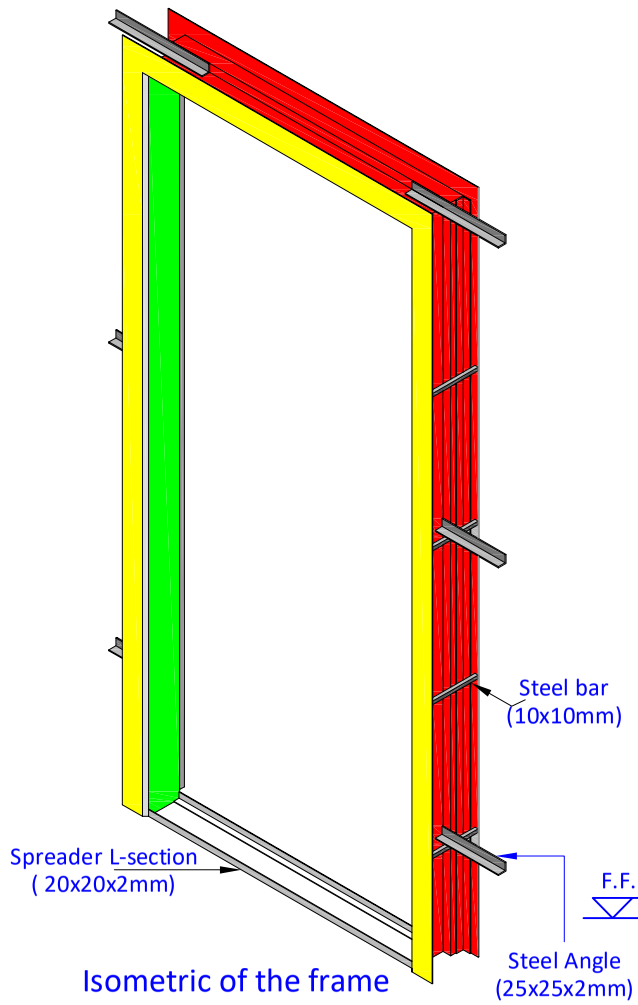


Typical Drawings for Renovation

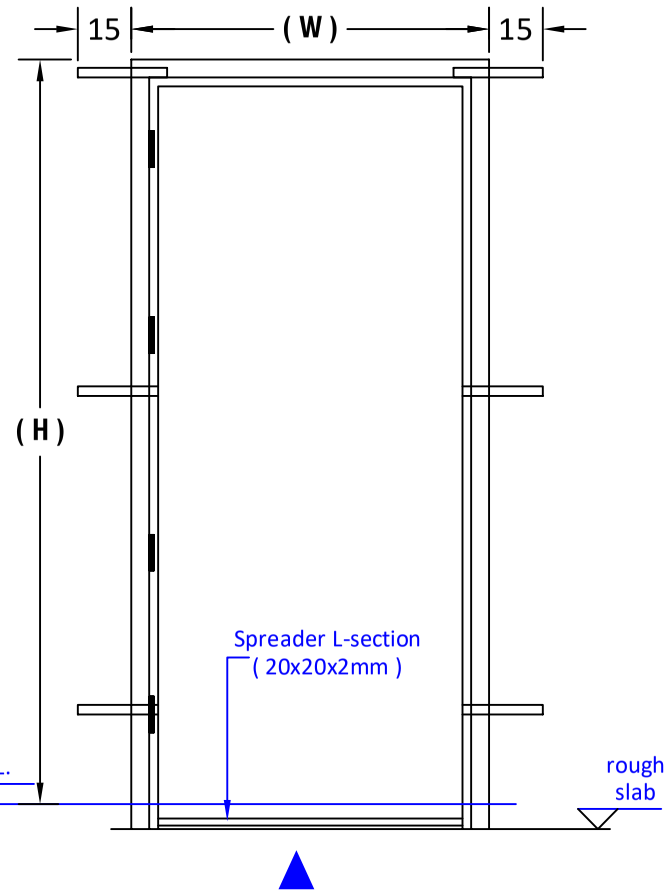
Drawn by: Soran Rostam Aziz

Sheet Title:
Detail of Door

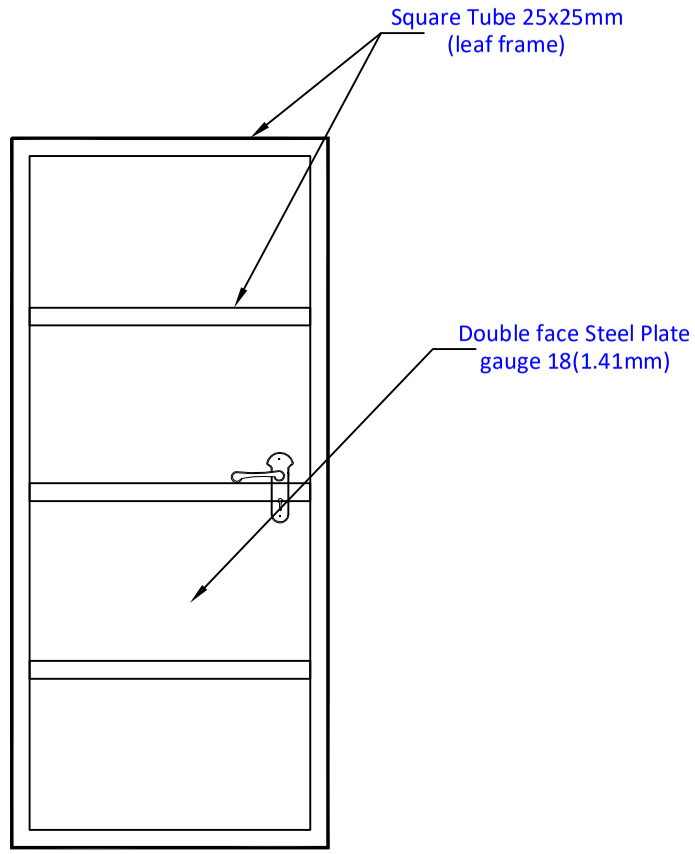
Scale: NTS	**Date:**	**DWG No.**



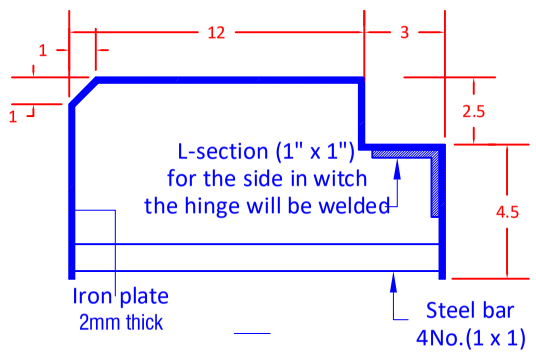
Isometric of the frame
(for double face door)



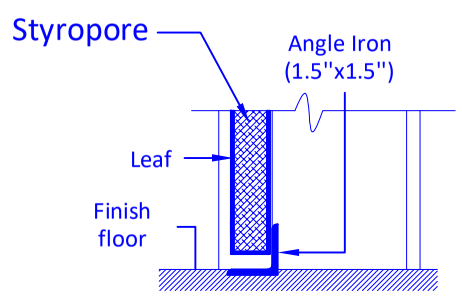
Elevation of the frame
(for double face door)



Leaf detail
for double face door



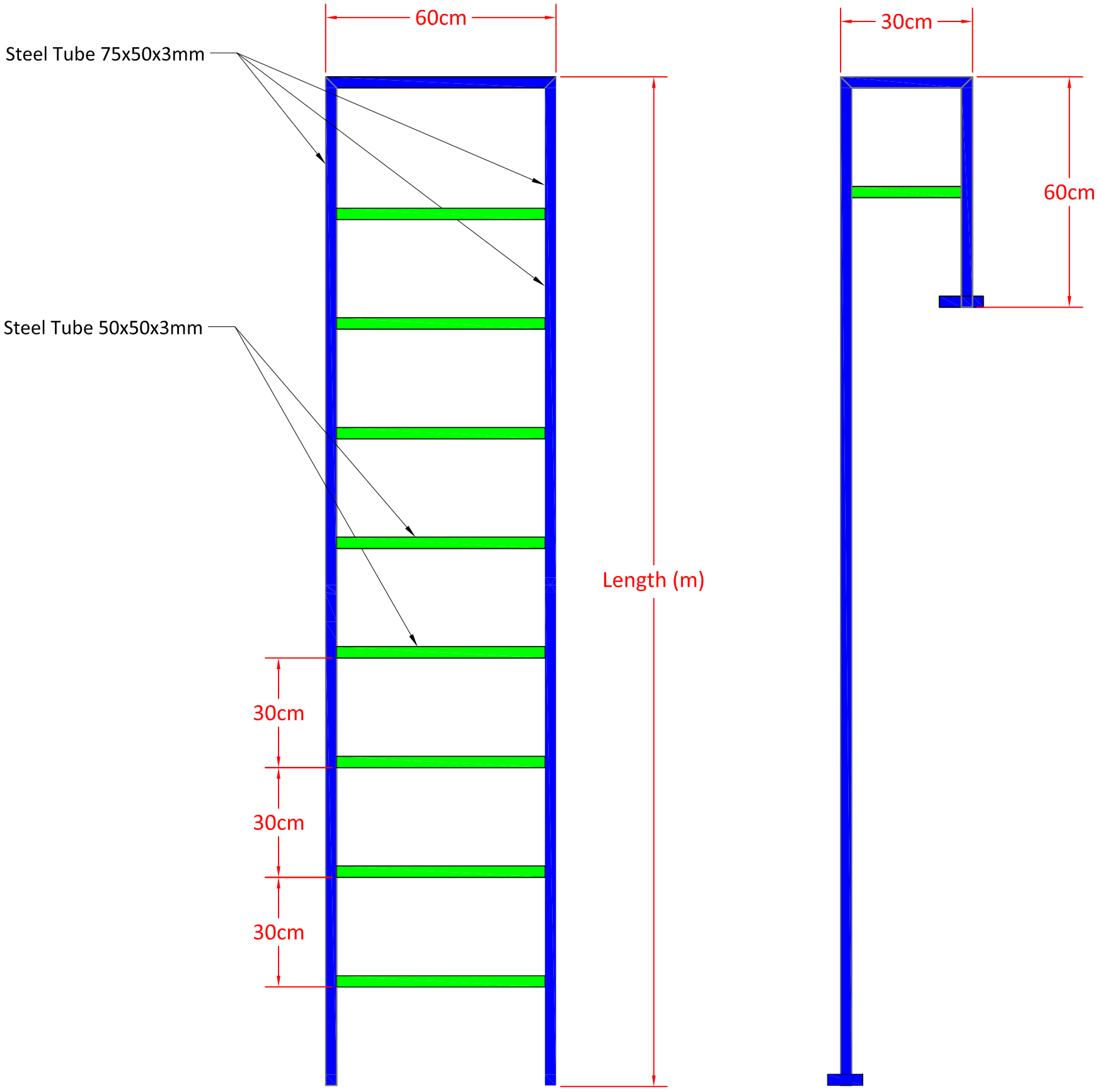
Cross section
at frame door
(for double face)



Detail for
external doors
only

Detail of Steel Door

Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: Detail of Single Leaf Steel Door		
Scale: NTS	Date:	DWG No.

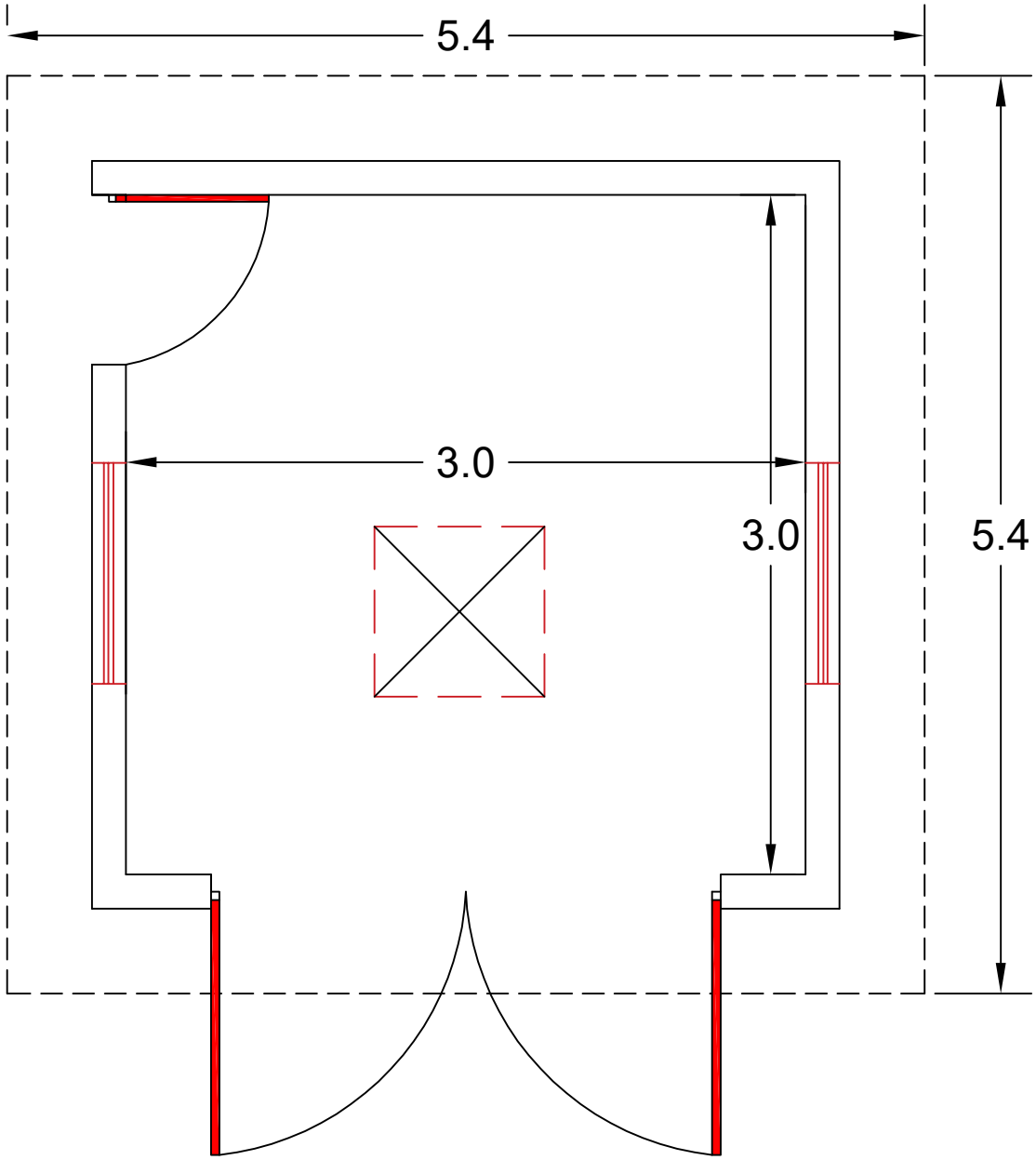


Typical Drawings for Renovation

Drawn by: Soran Rostam Aziz

Sheet Title:
Detail of Steel Ladder

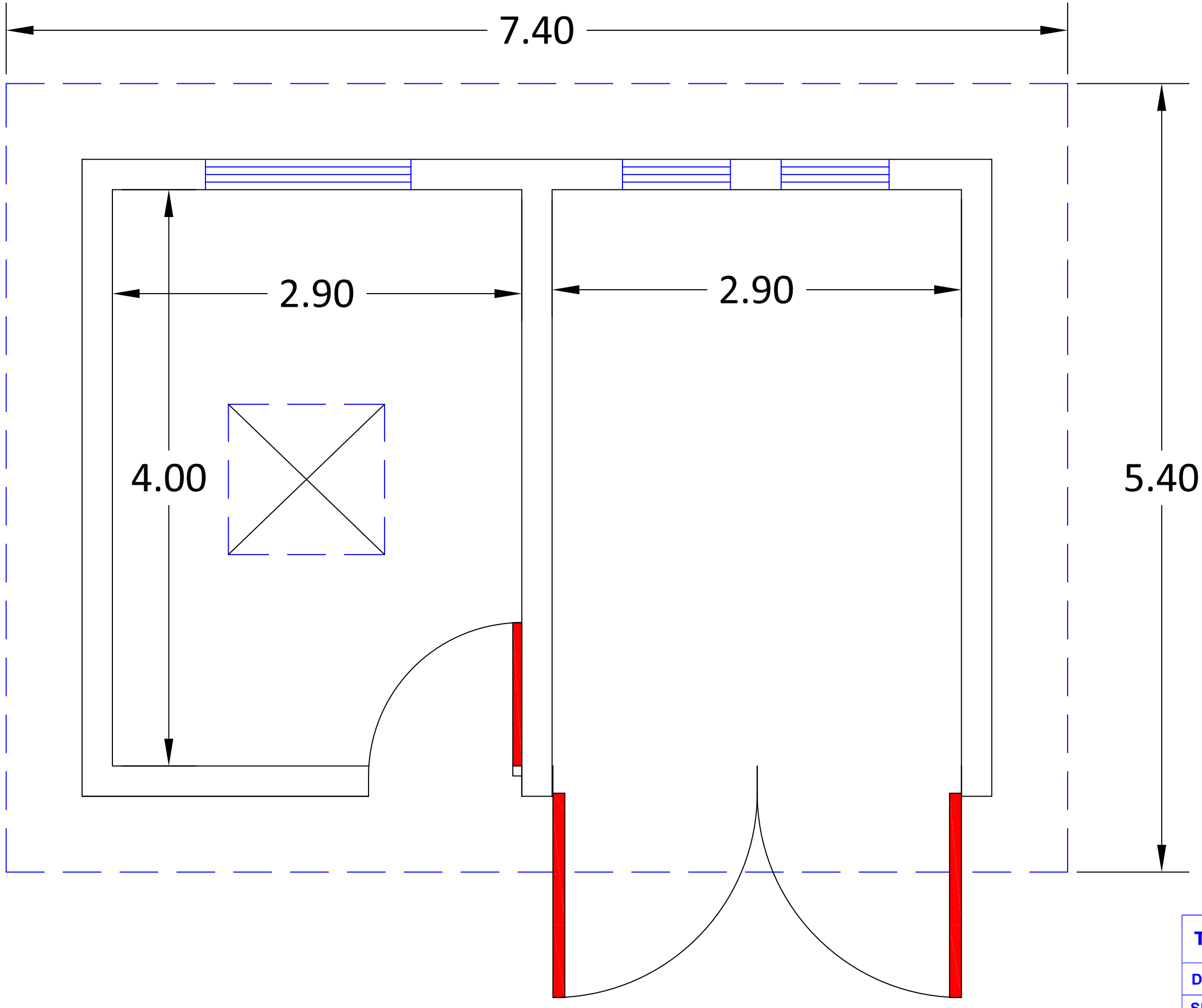
Scale: NTS	Date:	DWG No.



Well Room 3.0x3.0

Foundation 1.0 m Around the Room

Reinforced of Slab and Beams same
Room 4x6

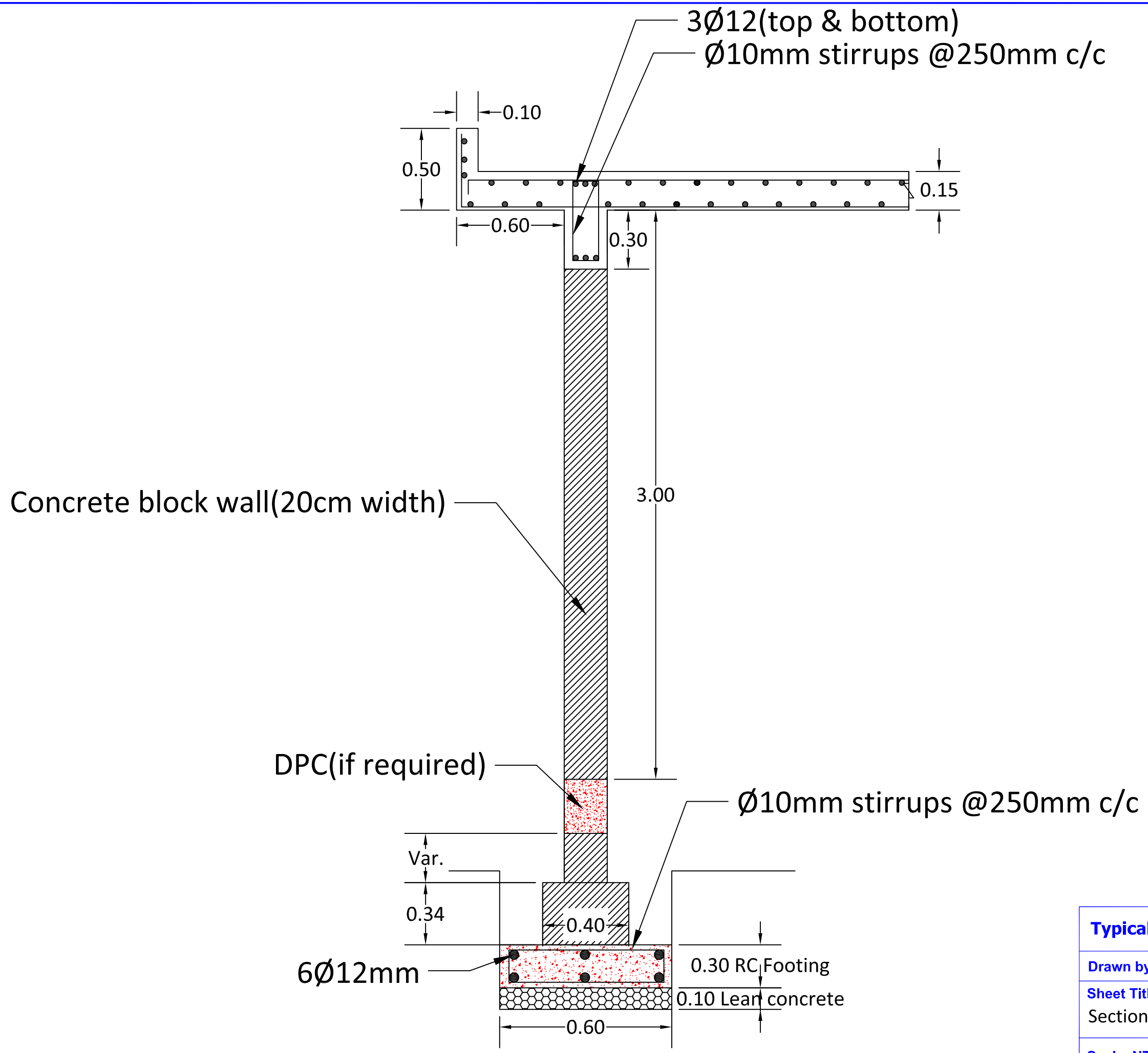


Typical Drawings for Renovation

Drawn by: Soran Rostam Aziz

Sheet Title:
Architectural Plan

Scale: NTS	Date:	DWG No.



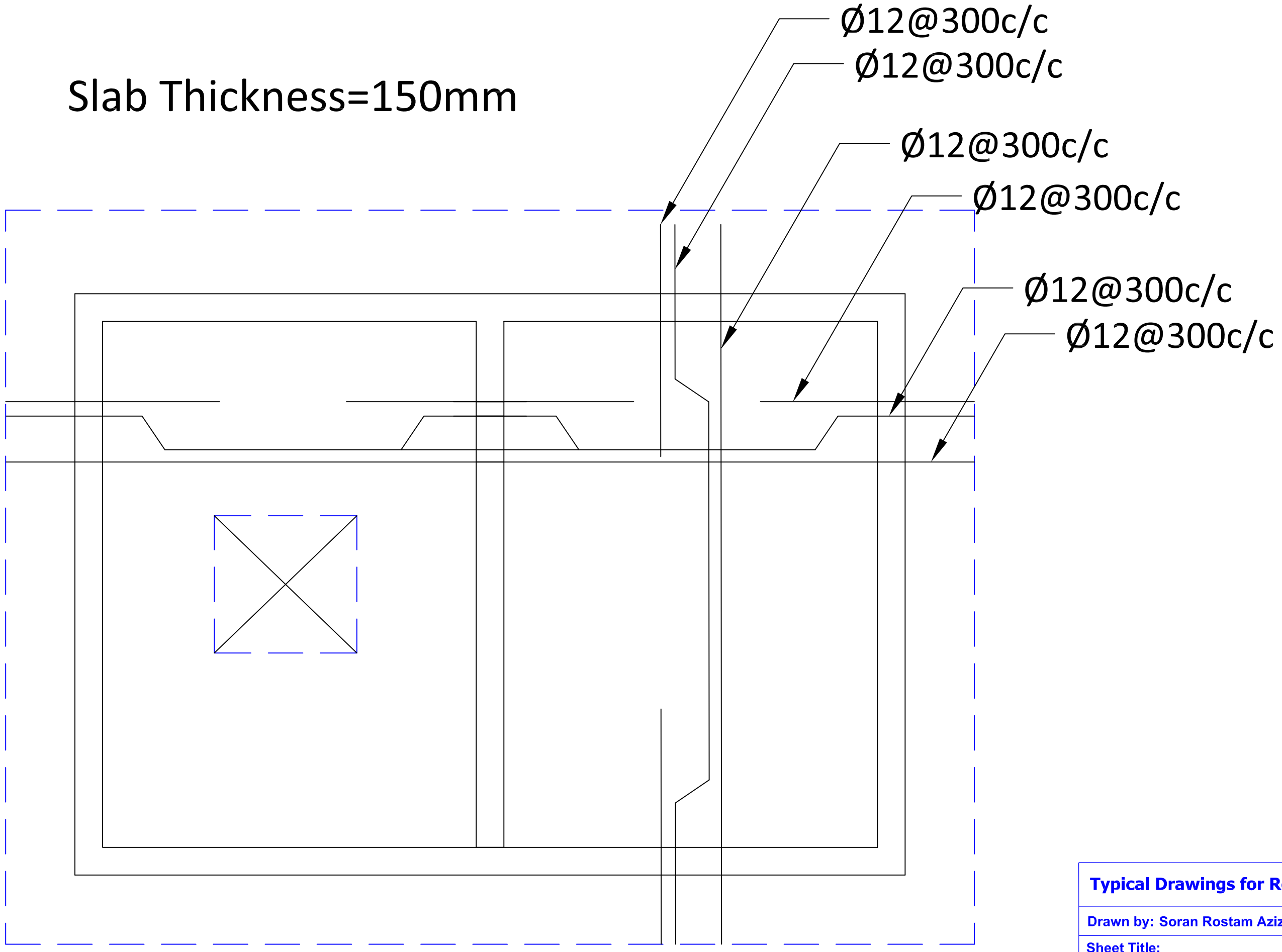
Typical Drawings for Renovation

Drawn by: Soran Rostam Aziz

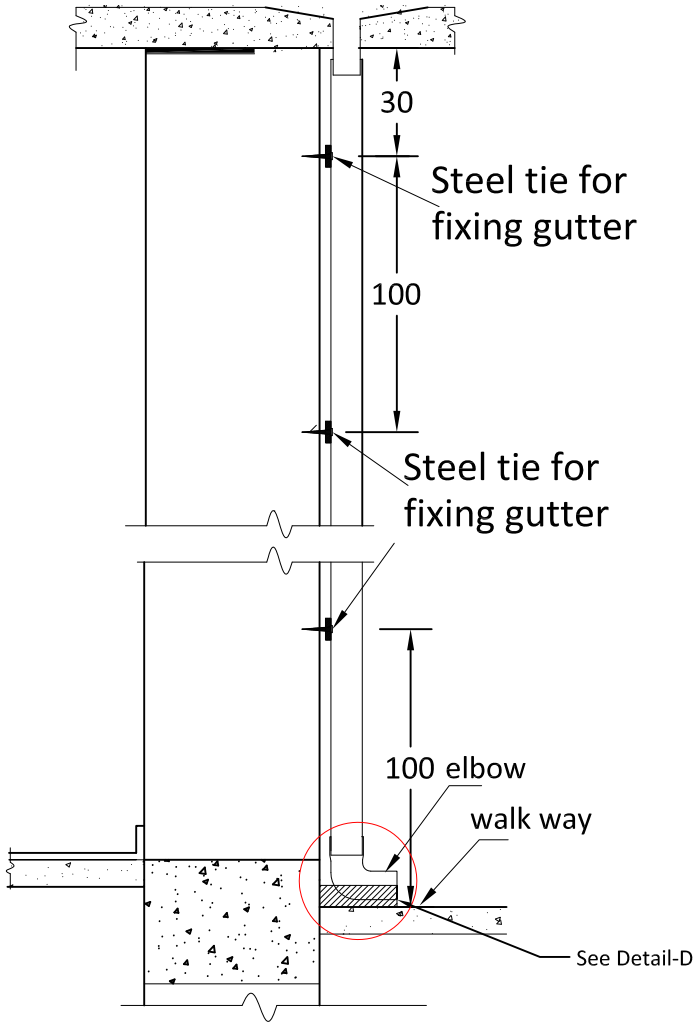
Sheet Title:
Section of the wall

Scale: NTS	**Date:**	**DWG No.**

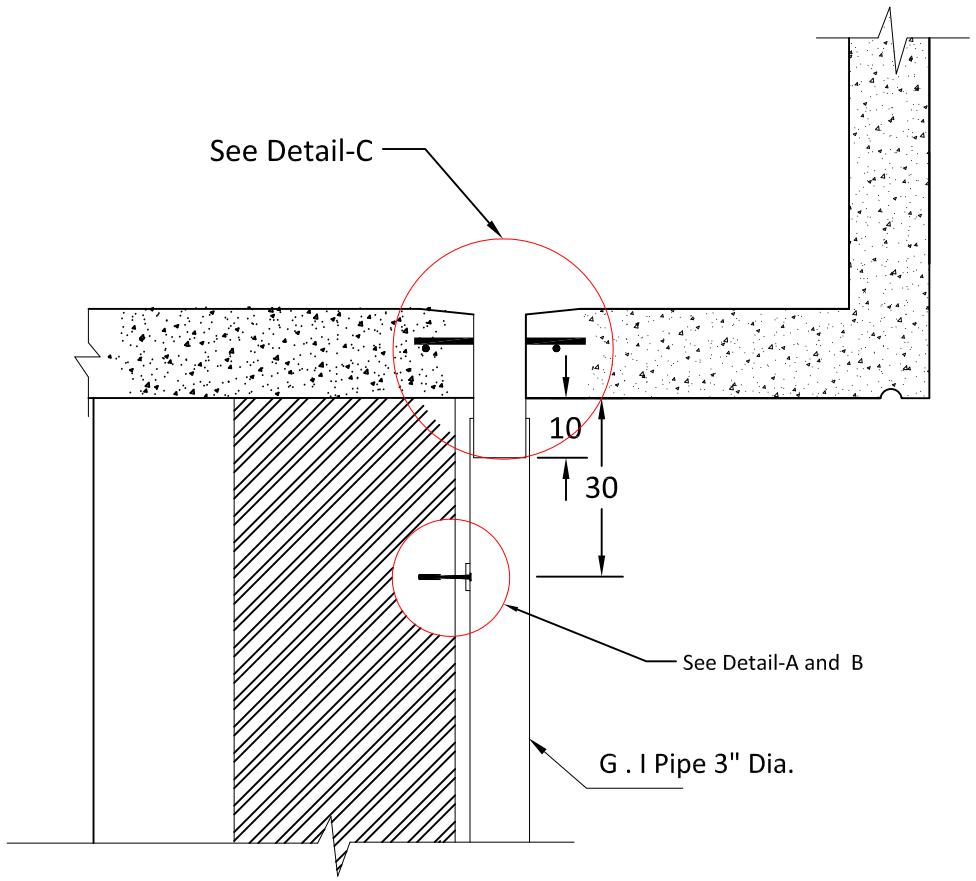
Slab Thickness=150mm

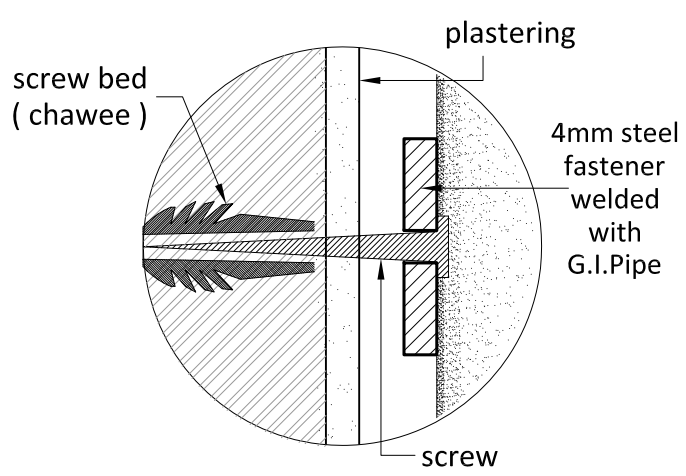


Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: **Slab Reinforcement**		
Scale: NTS	**Date:**	**DWG No.**

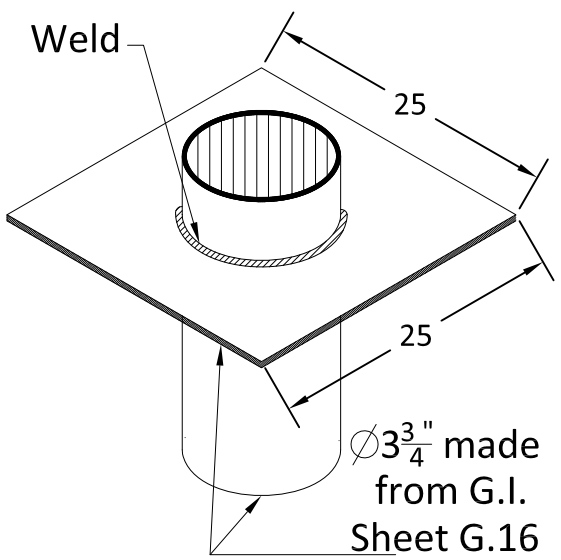


Section

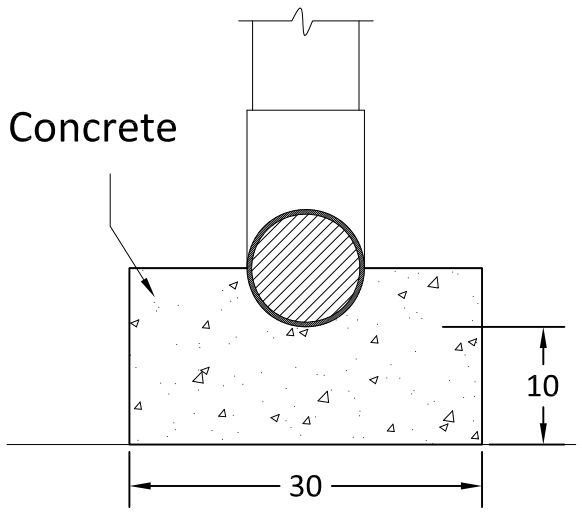




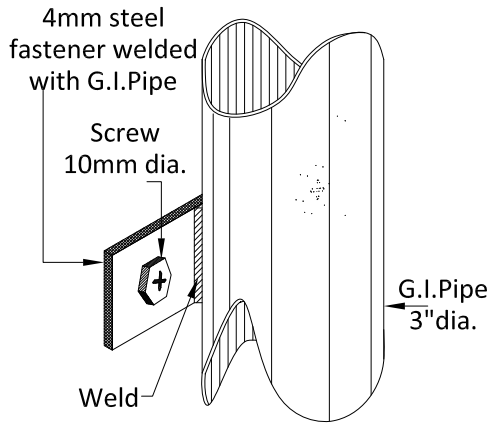
Detail-A



Detail-C



Detail-D



Detail-B

Detail of Roof Drain

Typical Drawings for Renovation		
Drawn by: Soran Rostam Aziz		
Sheet Title: Detail of Roof Drain		
Scale: NTS	**Date:**	**DWG No.**


Location of 3 Wells and Concrete Reservoir in Big Hatarah Village
Write a description for your map.
Legend
Feature 1
Hatarah
Untitled Path
Untitled Polygon
36.668332 N, 43.037449 E 500m3 Concrete Reservoir
Hatarah
W3 , 36.654884,43.029352
W2, 36.654364,43.032682
W1, 36.651973,43.032055
Google Earth
© 2018 Google
© 2018 Basarsoft
Image © 2019 DigitalGlobe
N
1 km

Geology report

According to the report of drilling: issued in 2018 about drilling of deep water well in Nineveh is completed, well name: .

1_ type of machine: drilling rig (Air compressor):

- spuming by: Geologist:
- starting date of drilling the water well: 15_11_2018

2_ finishing date: 25_11_2018

3_ The casing of the water well made by installing the galvanized pipes 8"" diameter till the depth of 220 m. as follows:

- From depth (220) m to (214) m by ordinary pipes diameter (85/8").
- From depth (214) m to (172) m by screen pipes diameter (85/8").
- From depth (172) m to (166) m by ordinary pipes diameter (85/8").
- From depth (166) m to (136) m by screen pipes diameter (85/8").
- From depth (136) m to (130) m by ordinary pipes diameter (85/8").
- From depth (130) m to (100) m by screen pipes diameter (85/8").
- From depth (100) m to (94) m by ordinary pipes diameter (85/8").
- From depth (94) m to (70) m by screen pipes diameter (85/8").
- From depth (70) m to (1) m above ground surface by ordinary pipes diameter (85/8").

4_ The well is extended to the depth of (20) m by using bit (17.5") diameter and reservation to (20) m diameter by pipe diameter (14").

5_ The well drilled with (12.5") diameter tell the depth (220 m)

6_ sp. Testing : sp. 30_17 25 hp

A_ water stark level: 80 m

B_ water dynamic level: 90 m

C_ water production: 120 callous / min

D_ length of testing pipes: 120

8_ chemical analysis:

EC= D.O=

PH= Turbity= sal.=

Lithology

Well Name : ALQOSH W1
Depth : 220 m

N 36 44 19 ELV.= 566 m
E 43 06 04

