

PAKISTAN NUCLEAR REGULATORY AUTHORITY

Off Shore Marker Piles

Construction of Marker Piles and Navigational Aids at Karachi Nuclear Power Plant

TENDER DOCUMENTS

(Rev-B)

Volume-4

Consultants:



ZAHEERUDDIN CONSULTANTS (PVT.) LTD.

■ Architects ■ Engineers ■ Construction Managers

5 - A, Sindhi Muslim Society, Karachi – 74400 (Pakistan)

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NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO KPT DATUM.

CO-ORDINATES

S.NO	NAME		
01	MP-1	N	276804.62
		E	2749256.30
02	MP-2	N	276804.62
		E	2748956.60
03	MP-3	N	276493.35
		E	2748956.60
04	MP-4	N	276151.16
		E	2748869.65
05	MP-5	N	275834.49
		E	2748767.79
06	MP-6	N	275508.25
		E	2748704.39
07	MP-7	N	275176.10
		E	2748702.51
08	MP-8	N	274852.92
		E	2748776.45
09	MP-9	N	274608.75
		E	2748990.05
10	MP-10	N	274577.16
		E	2749348.94



LAYOUT OF MARKER PILES

Revision Details

By

Check

Date

Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

GENERAL LAYOUT
CONSTRUCTION OF
MARKER PILES

Scale at A1
AS SHOWN

Drawn

ASIF

Approved

AP

Stage 1 check

SRAR

Stage 2 check

AP

Originated

ZCL

Date

May 14



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LIMITED

ARCHITECTS ENGINEERS CONSTRUCTION MANAGERS

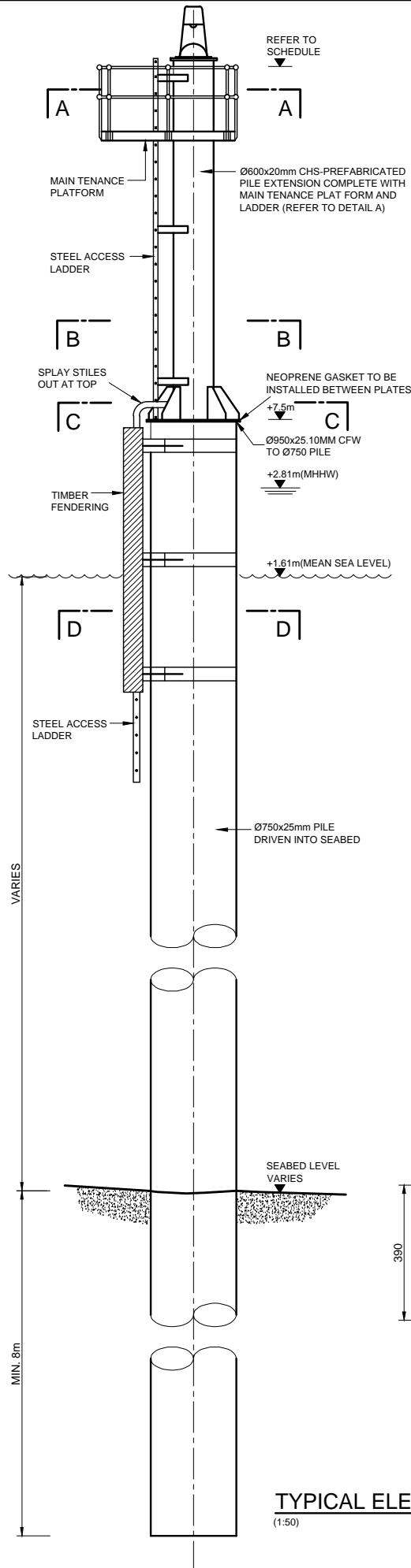
S-A, SINDH MUSLIM SOCIETY, KARACHI-74400 PAKISTAN

Drawing Number

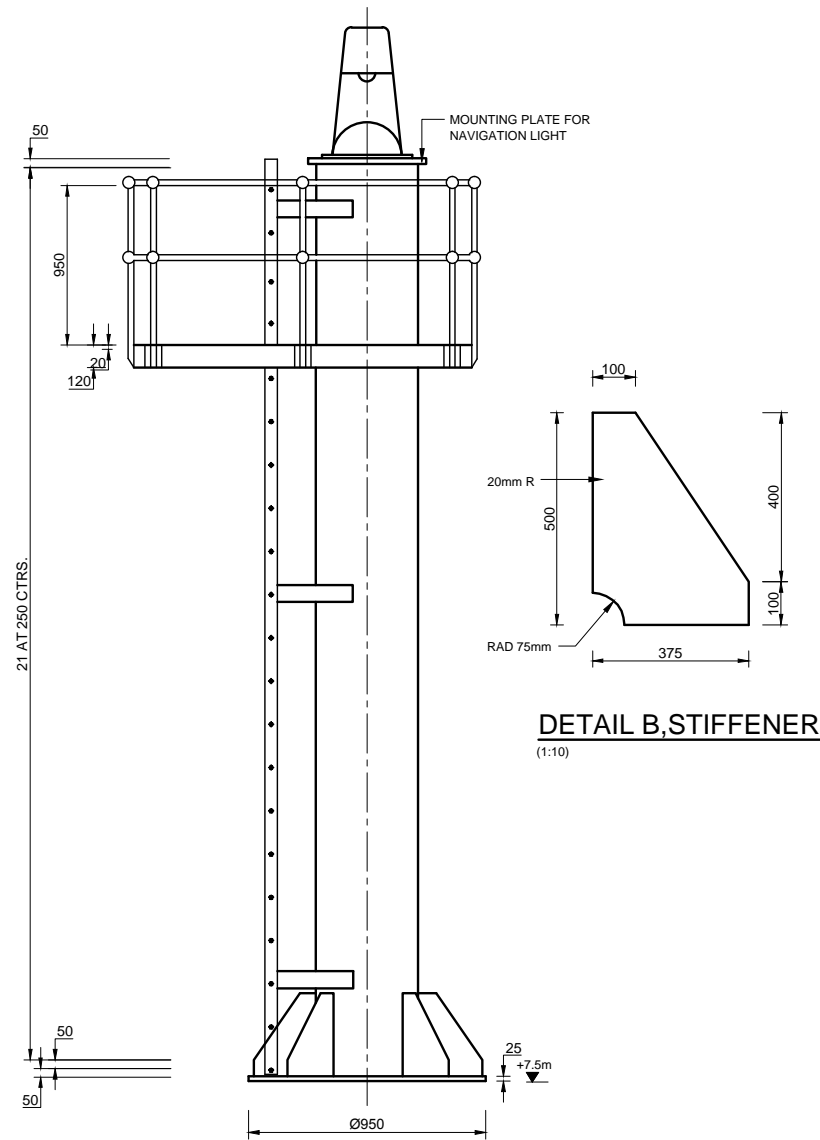
D030614/T-001

Rev

0

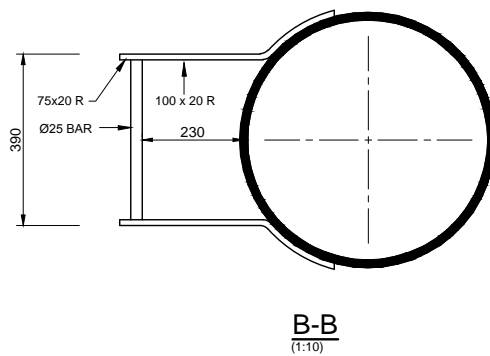


TYPICAL ELEVATION
(1:50)

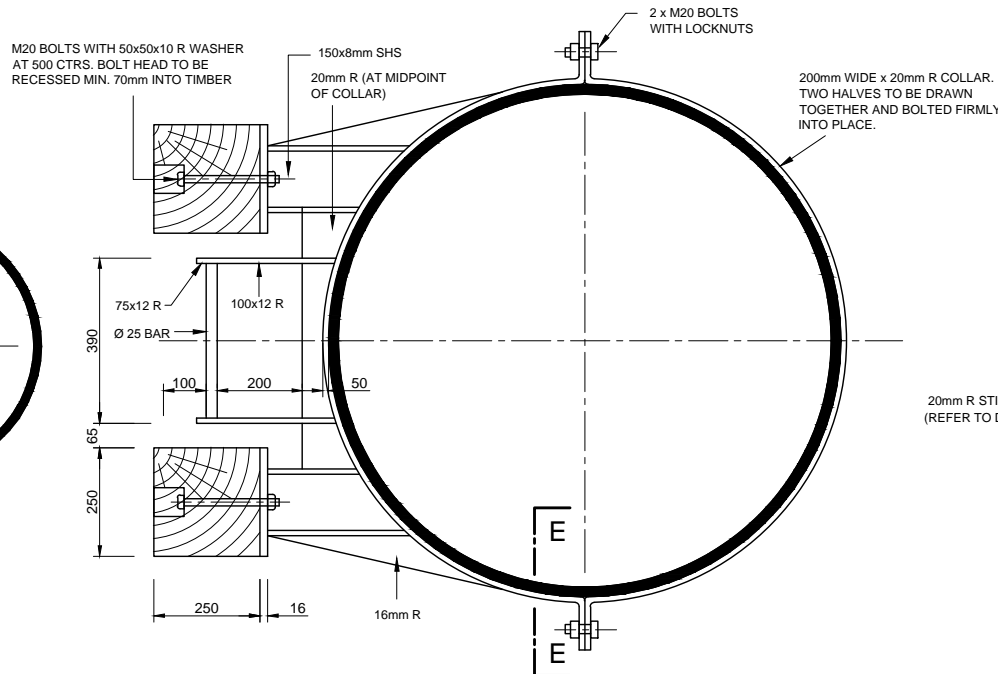


DETAIL A
(1:25)

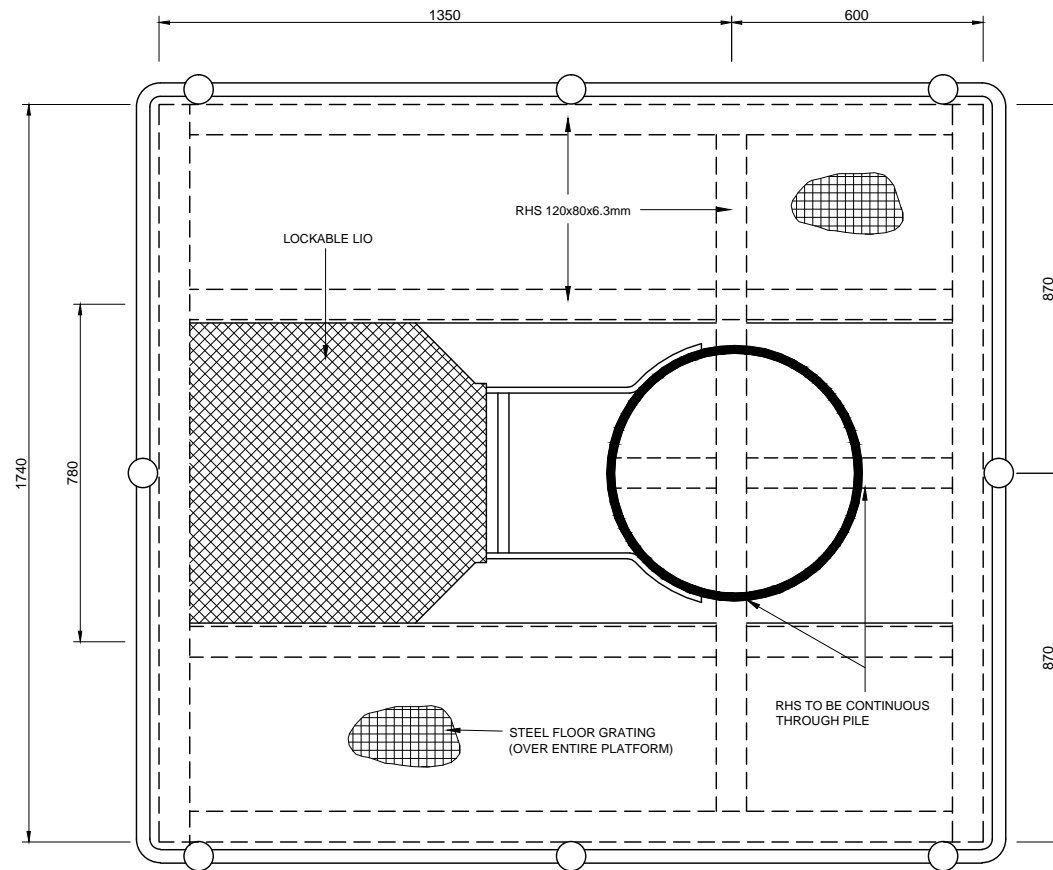
DETAIL B, STIFFENER
(1:10)



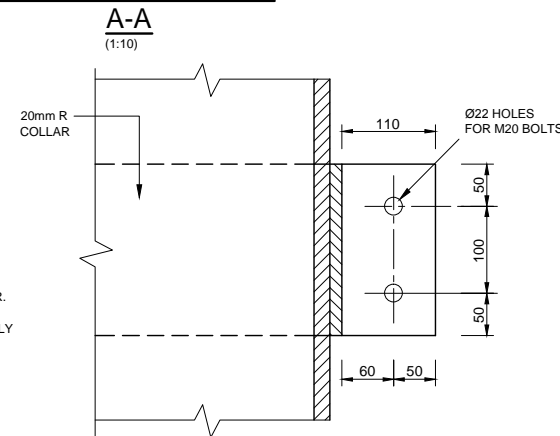
B-B
(1:10)



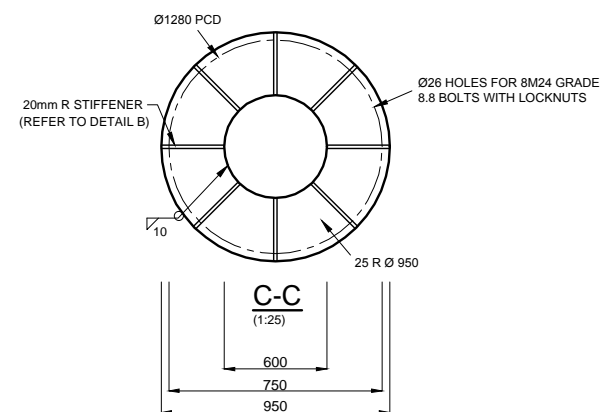
D-D
(1:10)



MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)



E-E
(1:5)



C-C
(1:25)

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-01			
S.NO.	NAME	N	E
01	MP-01	N	276804.62
		E	2749256.30

Revision Details	By	Check	Date	Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

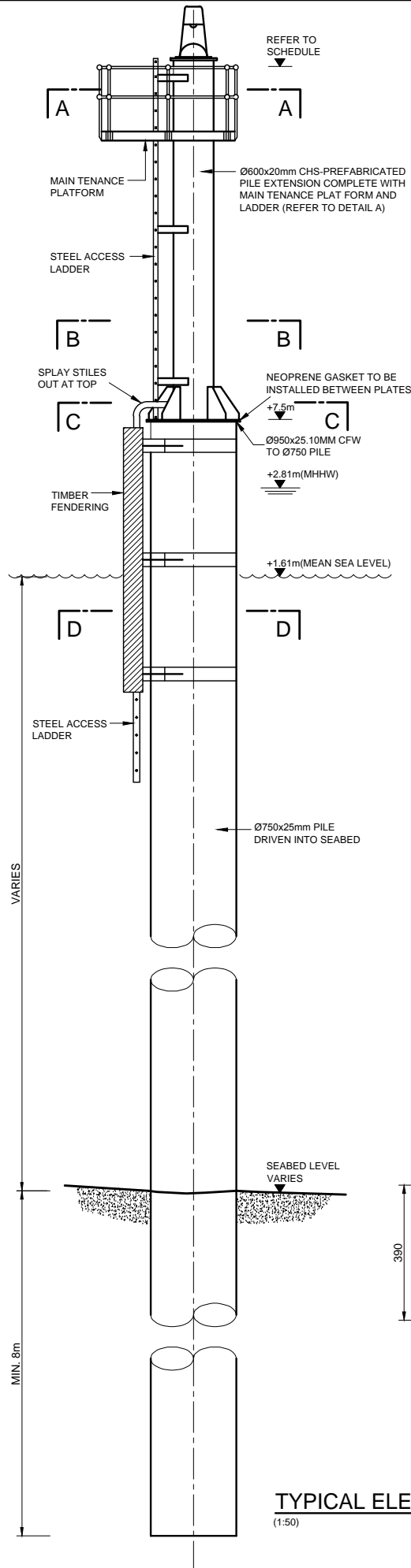
CONSTRUCTION OF
MARKER PILES
MP-01

Scale at A1
AS SHOWN

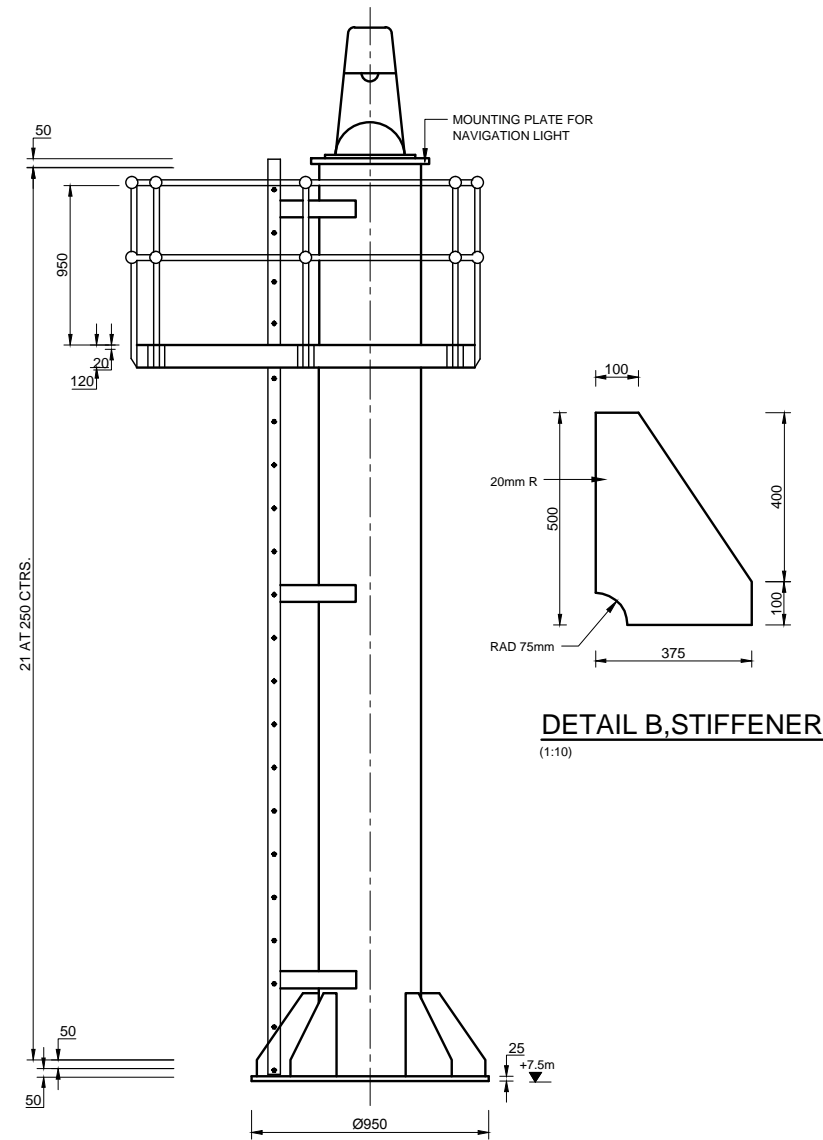
Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

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LIMITED**
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5-A, SINDH MUSLIM SOCIETY, KARACHI-74000 PAKISTAN.

Drawing Number	Rev
D030614/T-002	0

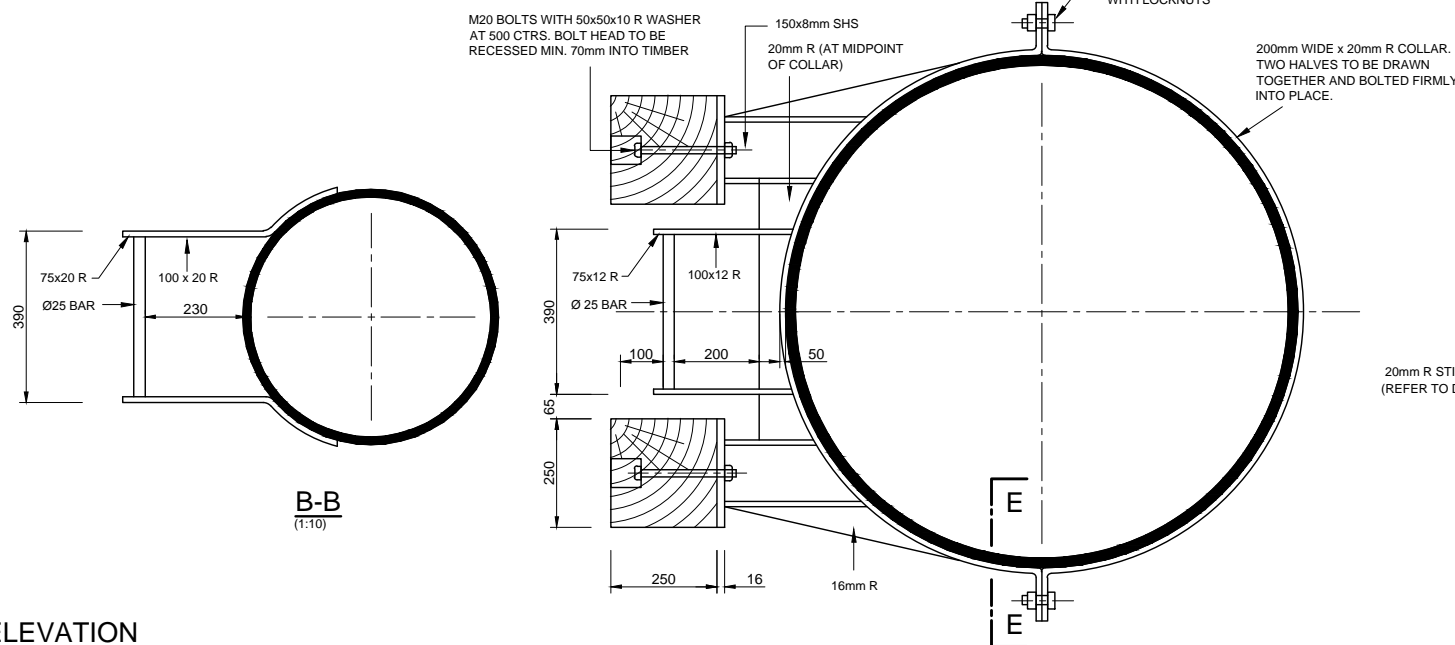


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(1:50)



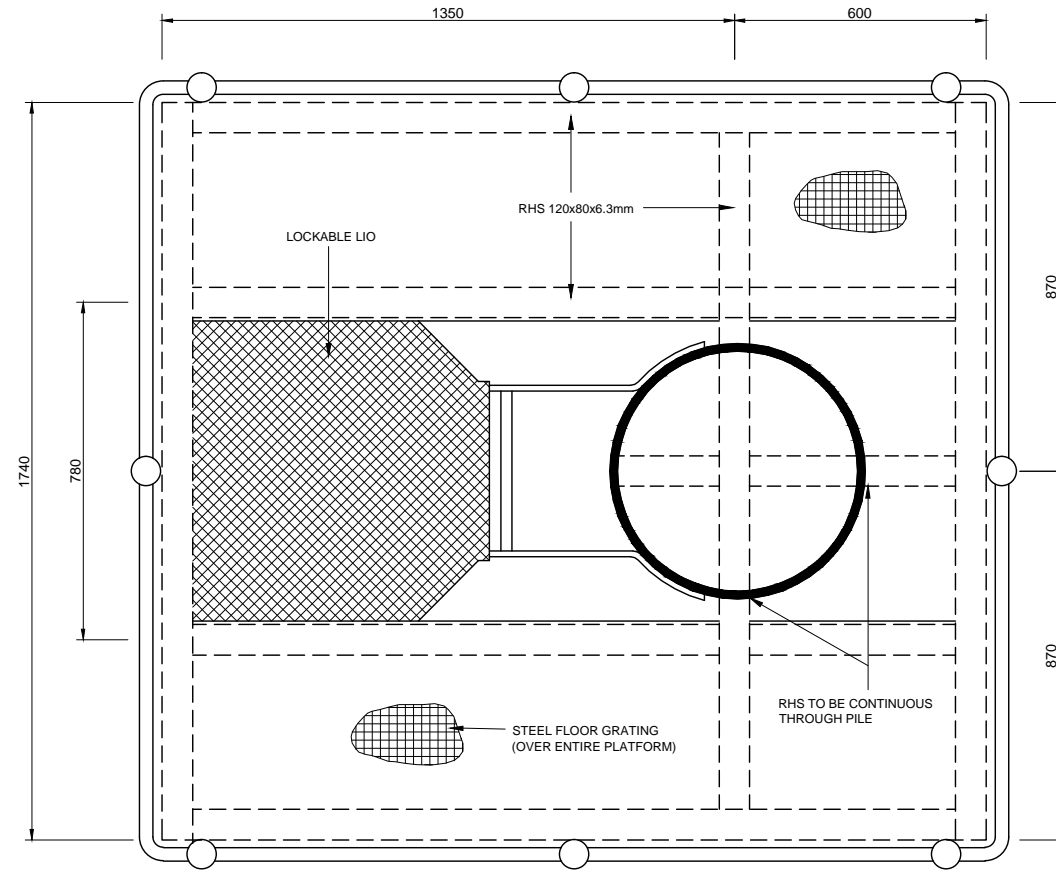
DETAIL B, STIFFENER
(1:10)

DETAIL A
(1:25)



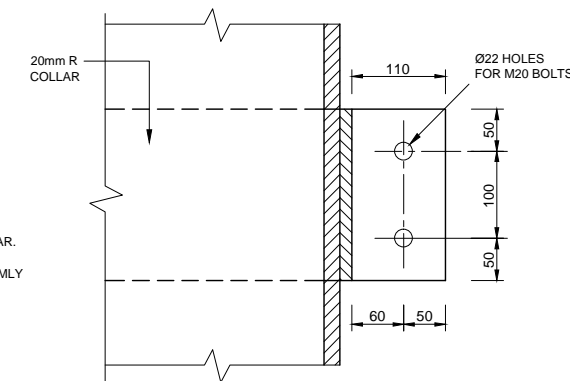
B-B
(1:10)

D-D
(1:10)

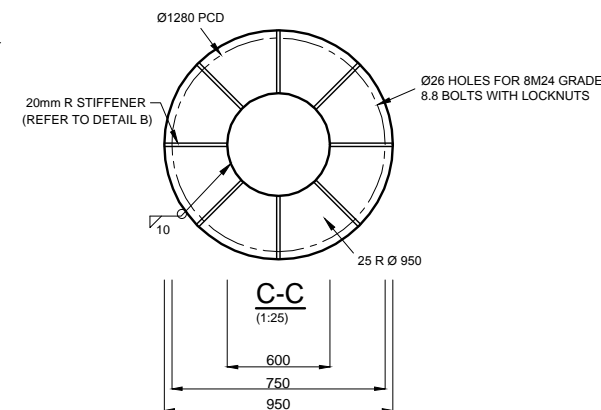


MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)

A-A
(1:10)



E-E
(1:5)



C-C
(1:25)

THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-02			
S.NO.	NAME	N	E
02	MP-2	276804.62	2748956.60

Revision Details	By	Check	Date	Suffix
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Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

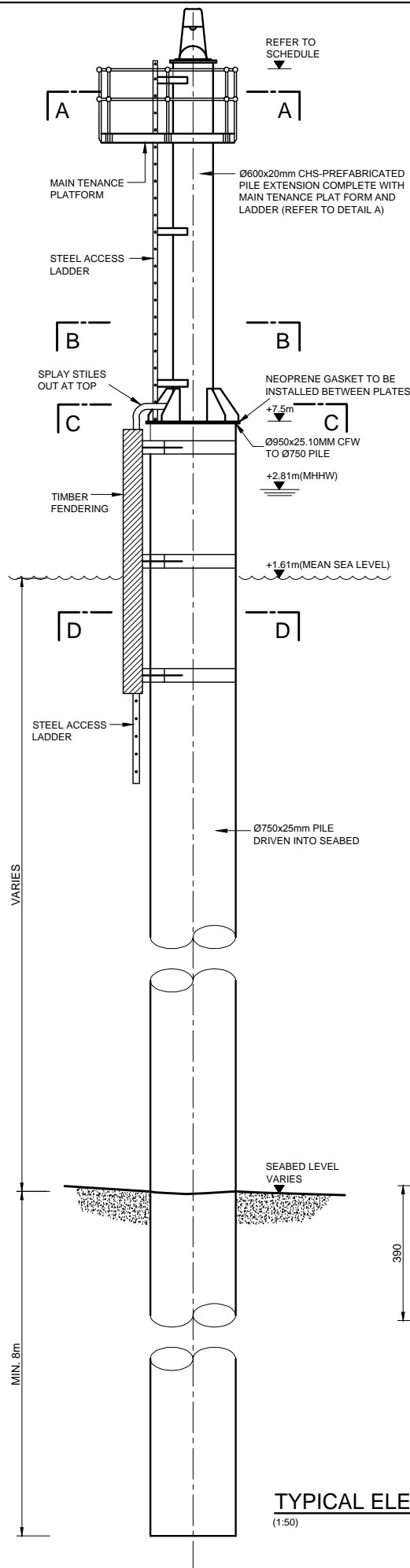
CONSTRUCTION OF
MARKER PILES
MP-02

Scale at A1
AS SHOWN

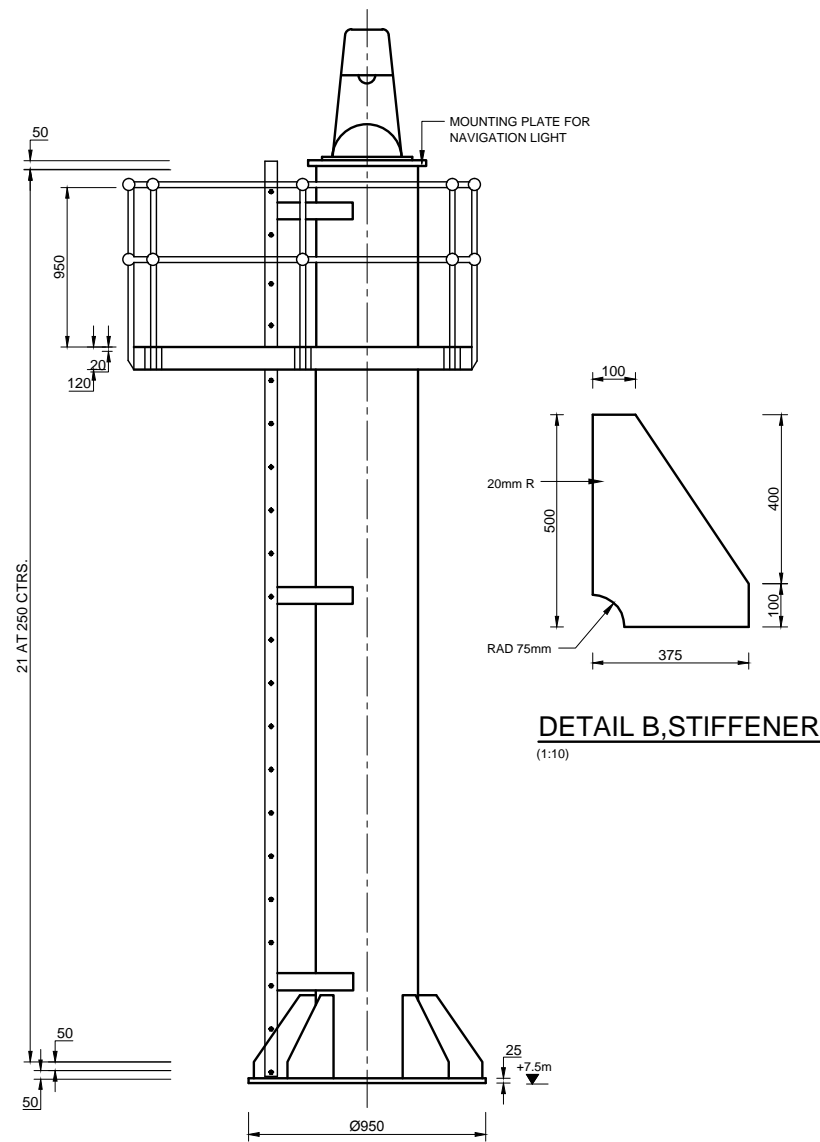
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Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

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5-A, SINDH MUSLIM SOCIETY, KARACHI-74000 PAKISTAN.

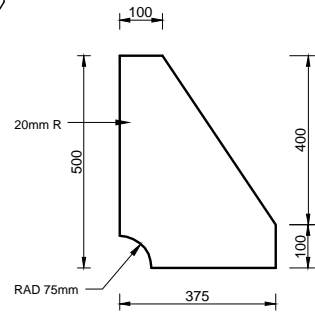
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D030614/T-003	0



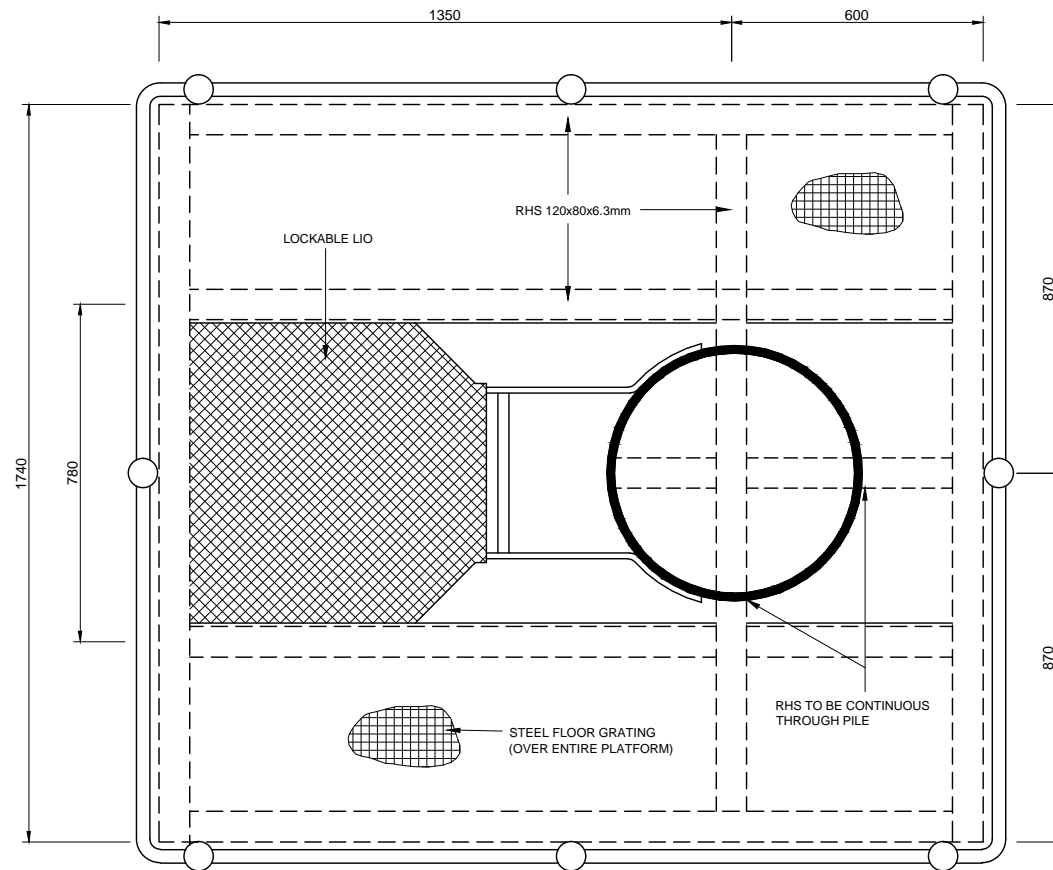
TYPICAL ELEVATION
(1:50)



DETAIL A
(1:25)

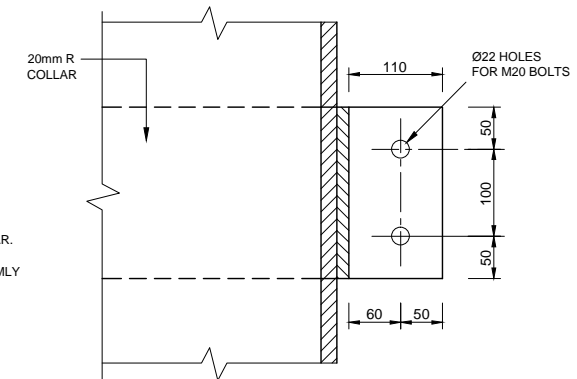


DETAIL B, STIFFENER
(1:10)

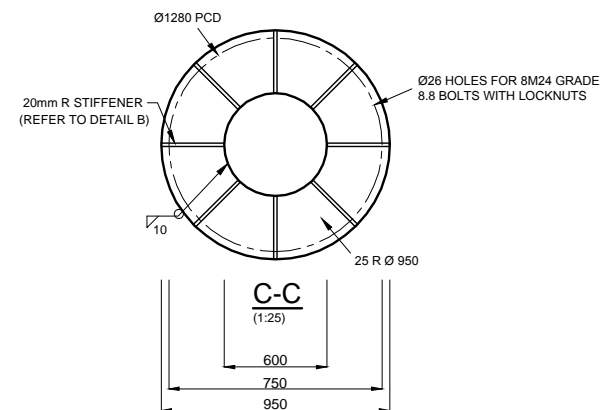


MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)

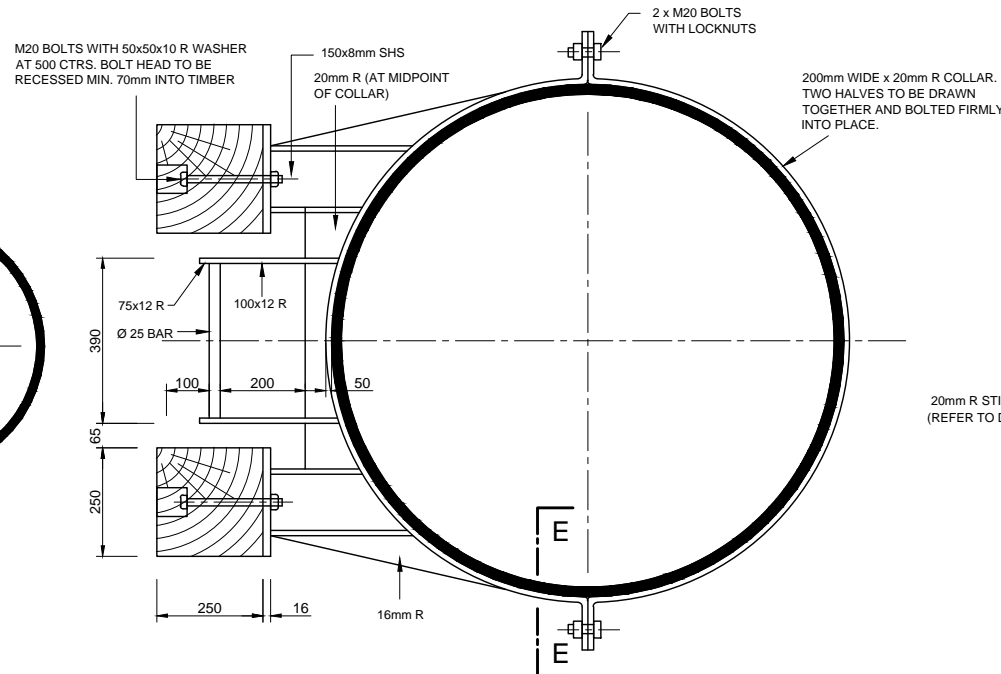
A-A
(1:10)



E-E
(1:5)

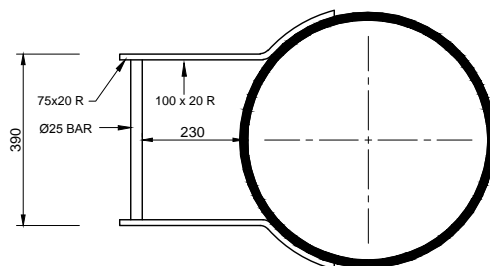


C-C
(1:25)



D-D
(1:10)

B-B
(1:10)



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NOTES

1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-03			
S.NO.	NAME		
03	MP-3	N	276493.35
		E	2748956.60

Revision Details	By	Date	Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

CONSTRUCTION OF
MARKER PILES
MP-03

Scale at A1
AS SHOWN

Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

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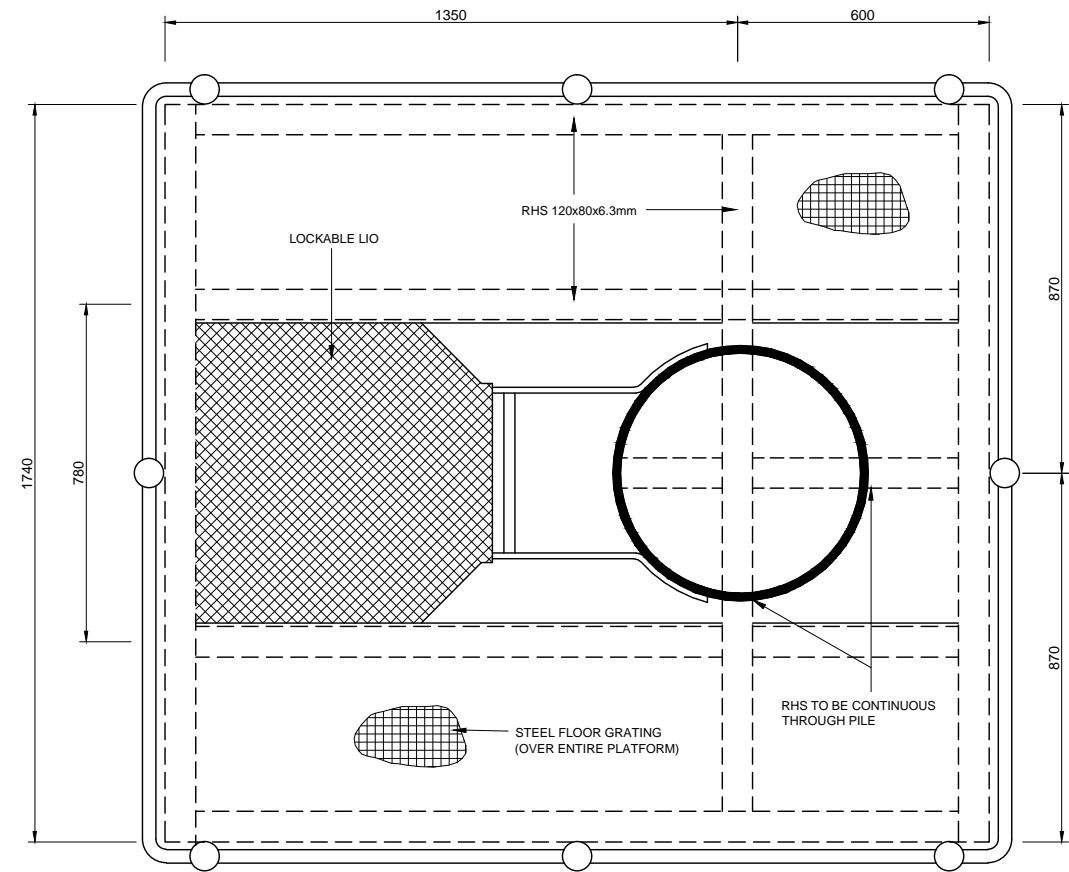
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D030614/T-004	0

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WRITTEN DIMENSIONS SHALL BE USED

NOTES

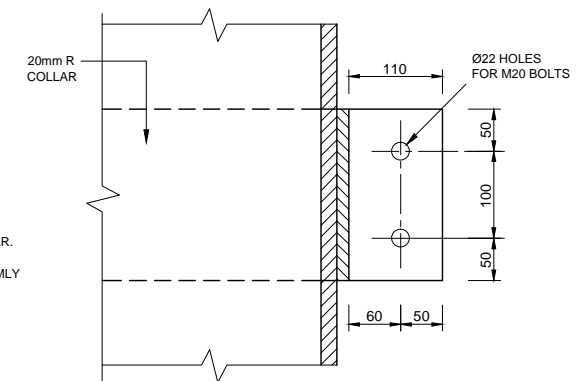
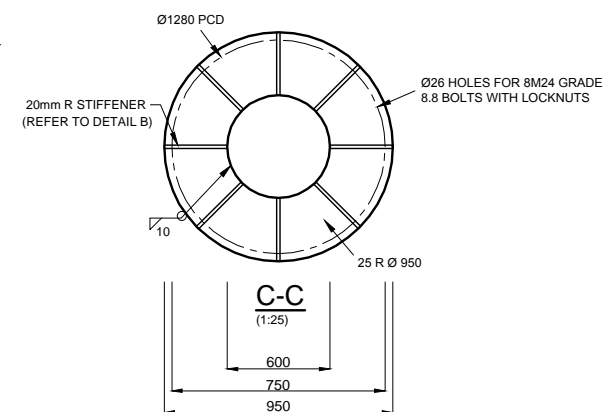
1-ALL DIMENSIONS ARE IN MILLIIMETRES
UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO CHART DATUM.

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S.NO.	NAME		
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		E	2748869.65

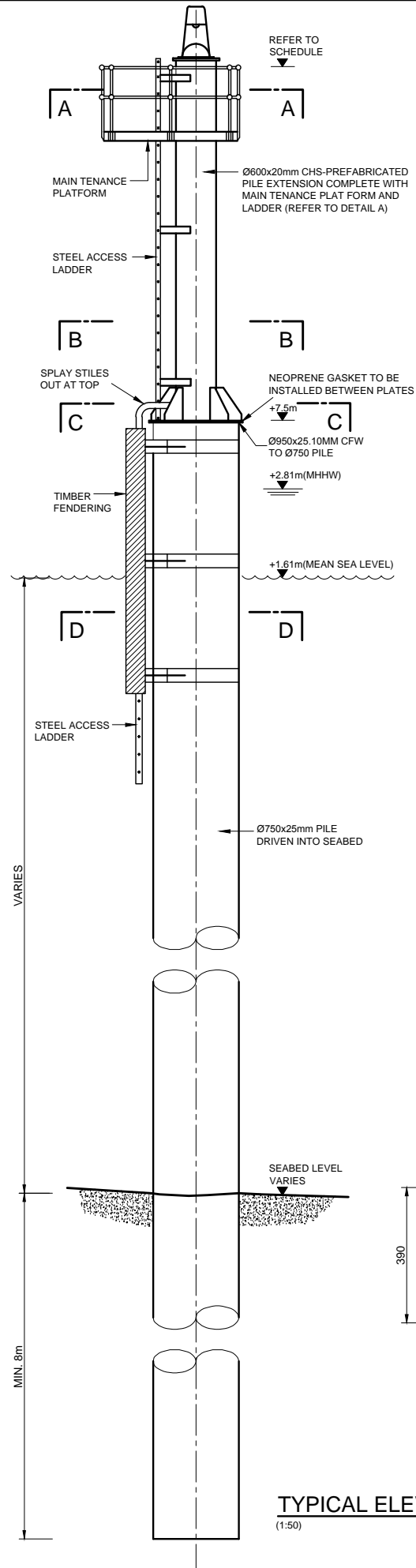


MAINTENANCE PLATFORM LAYOUT (WITH LOCKABLE LID)

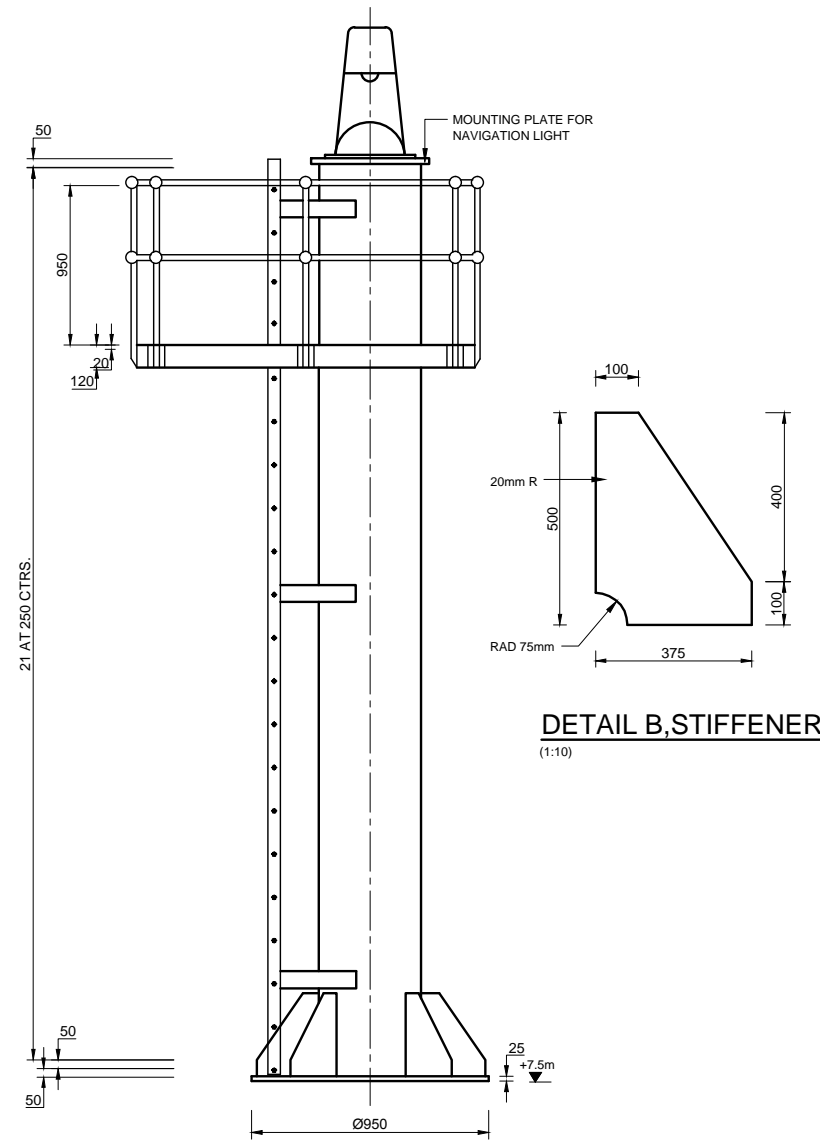
A-A
(1:10)


$$\frac{E-E}{(1:5)}$$


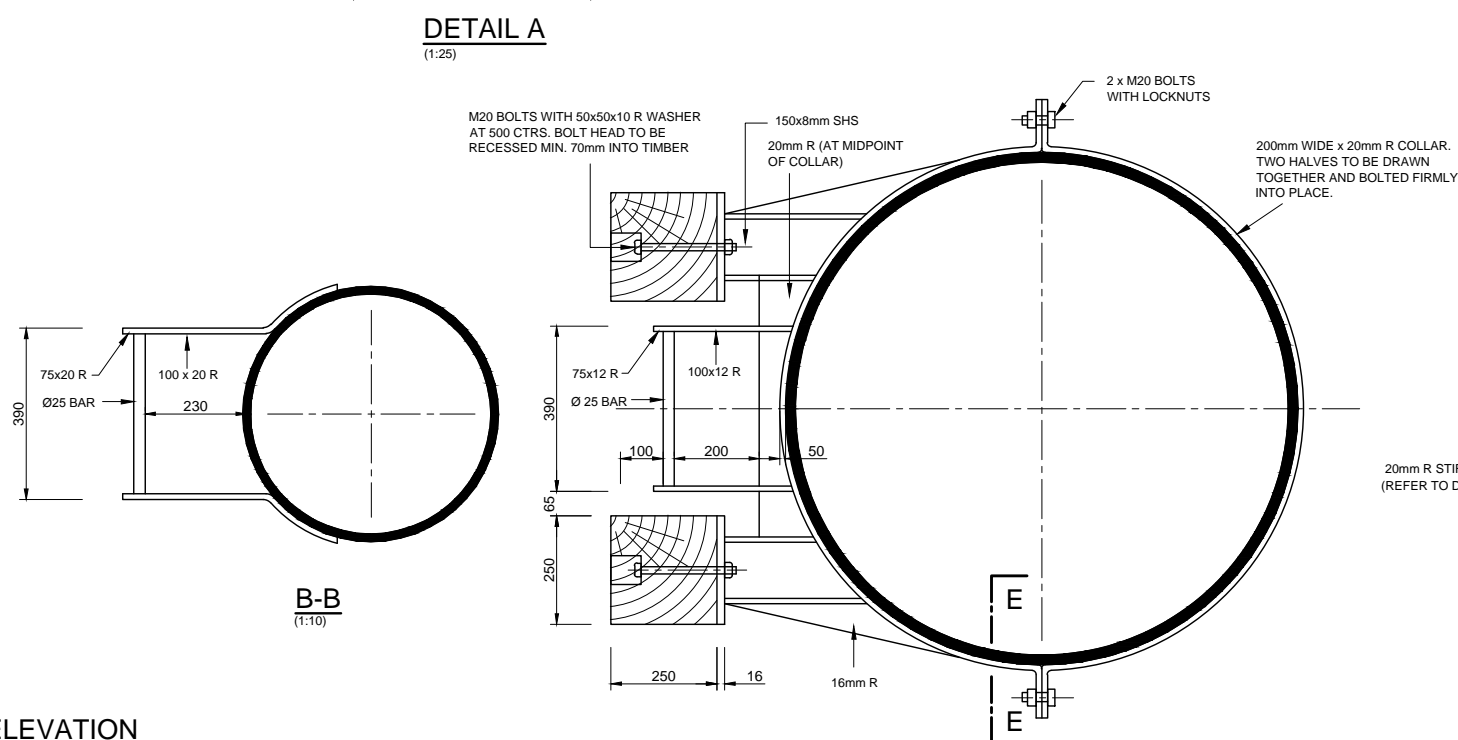
C-C
(1:25)



TYPICAL ELEVATION



DETAIL B,STIFFENER
(1:10)



D-D
(1:10)

Revision Details	By	Date	Suffix
Drawing Status	Check		

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

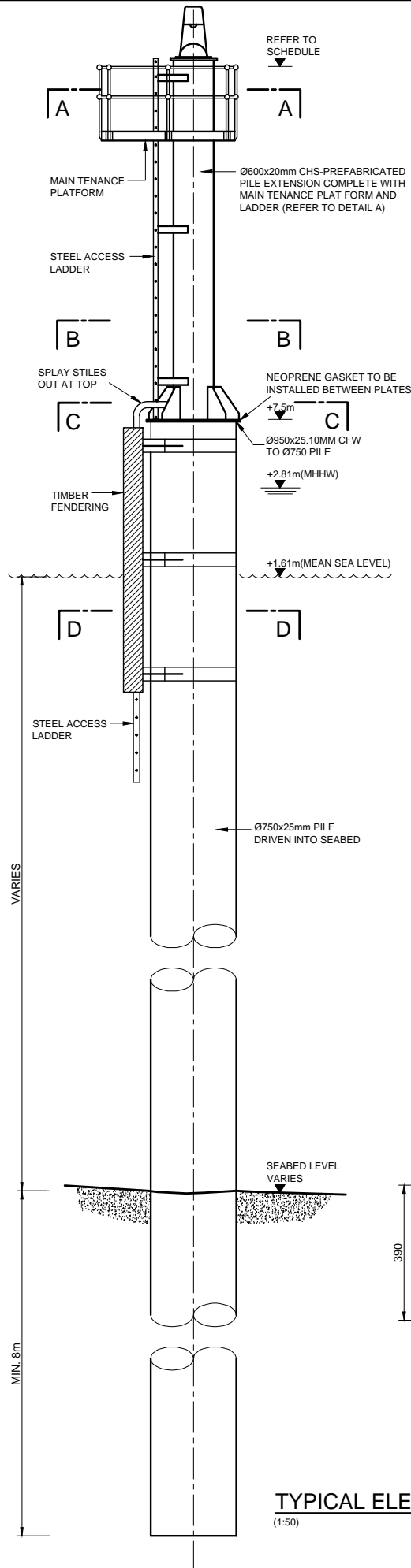
CONSTRUCTION OF MARKER PILES MP-04

Scale at A1
AS SHOWN

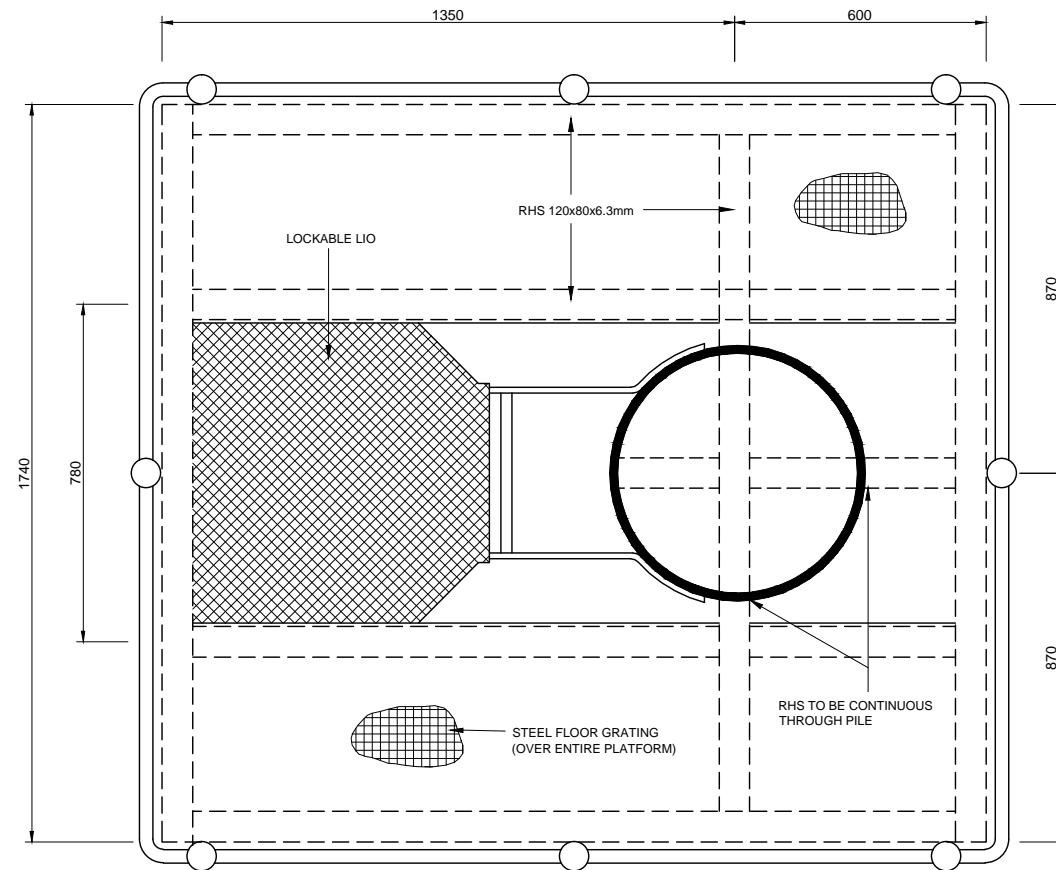
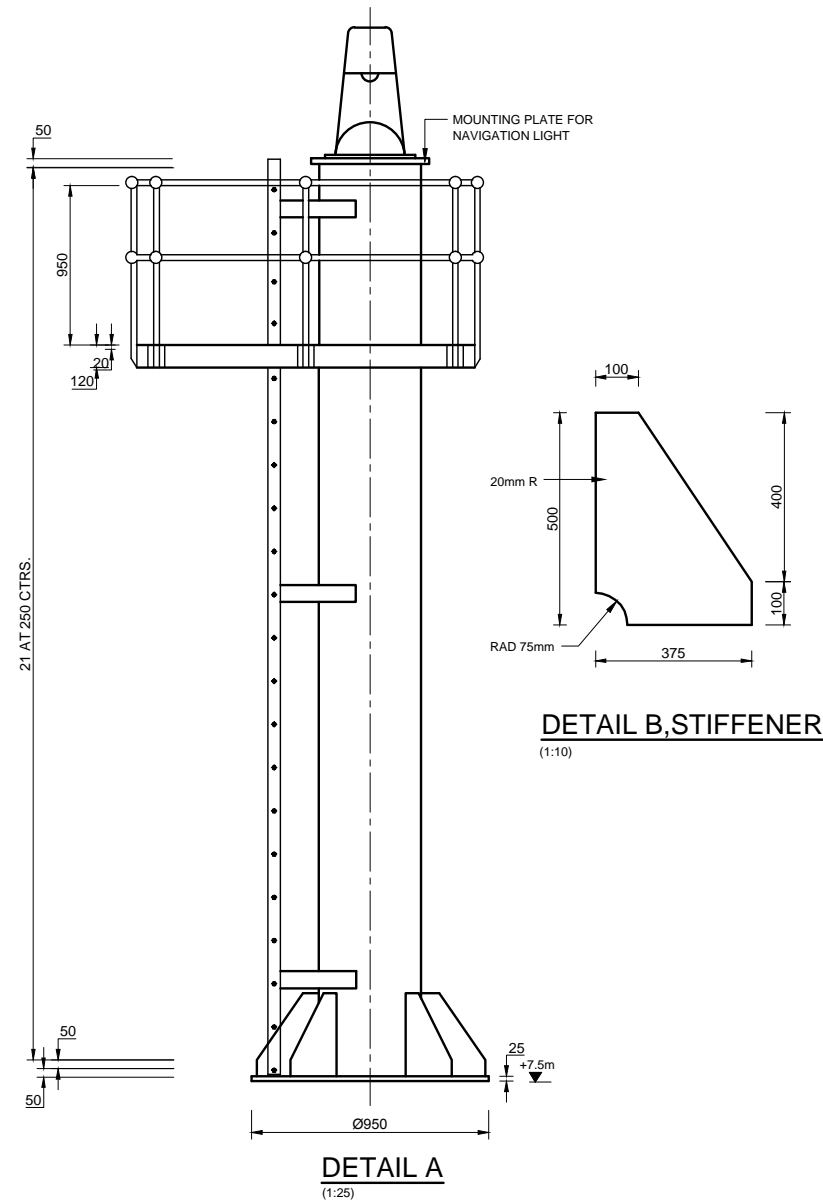
Drawn ASIF		Approved AP	
Stage 1 check SRAR	Stage 2 check AP	Originated ZCL	Date May 14

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LIMITED**
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5 - A, SINDHI MUSLIM SOCIETY, KARACHI-74400 PAKISTAN.

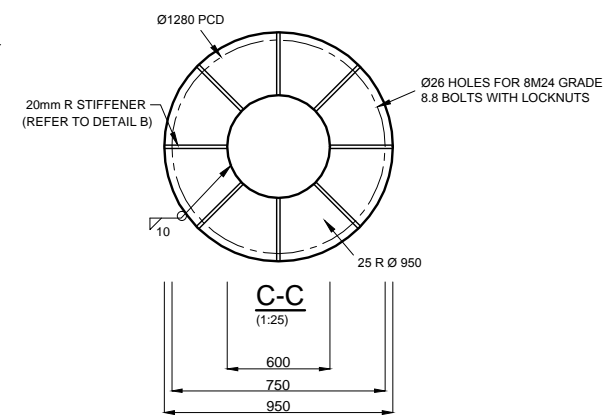
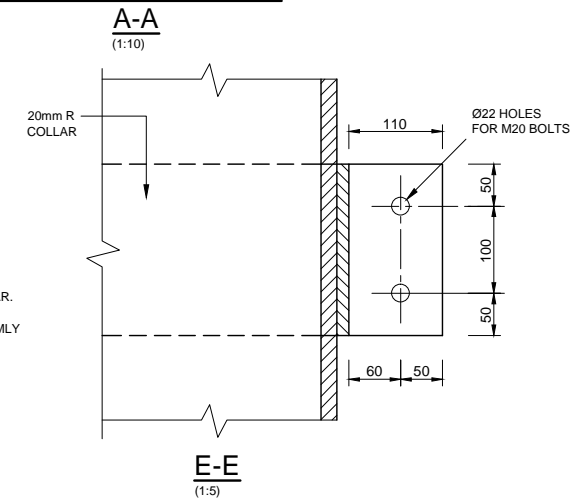
Drawing Number	Rev
D030614/T-005	0



TYPICAL ELEVATION
(1:50)



**MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)**



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NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-05			
S.NO.	NAME	N	E
05	MP-5	275834.49	2748767.79

Revision Details	By	Check	Date	Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

CONSTRUCTION OF
MARKER PILES
MP-05

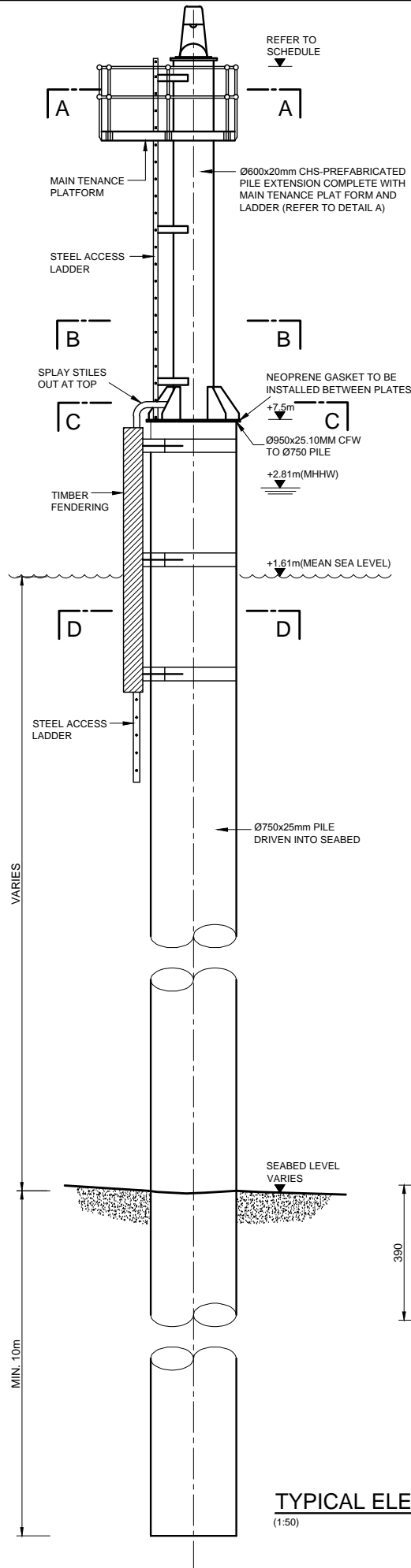
Scale at A1
AS SHOWN

Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

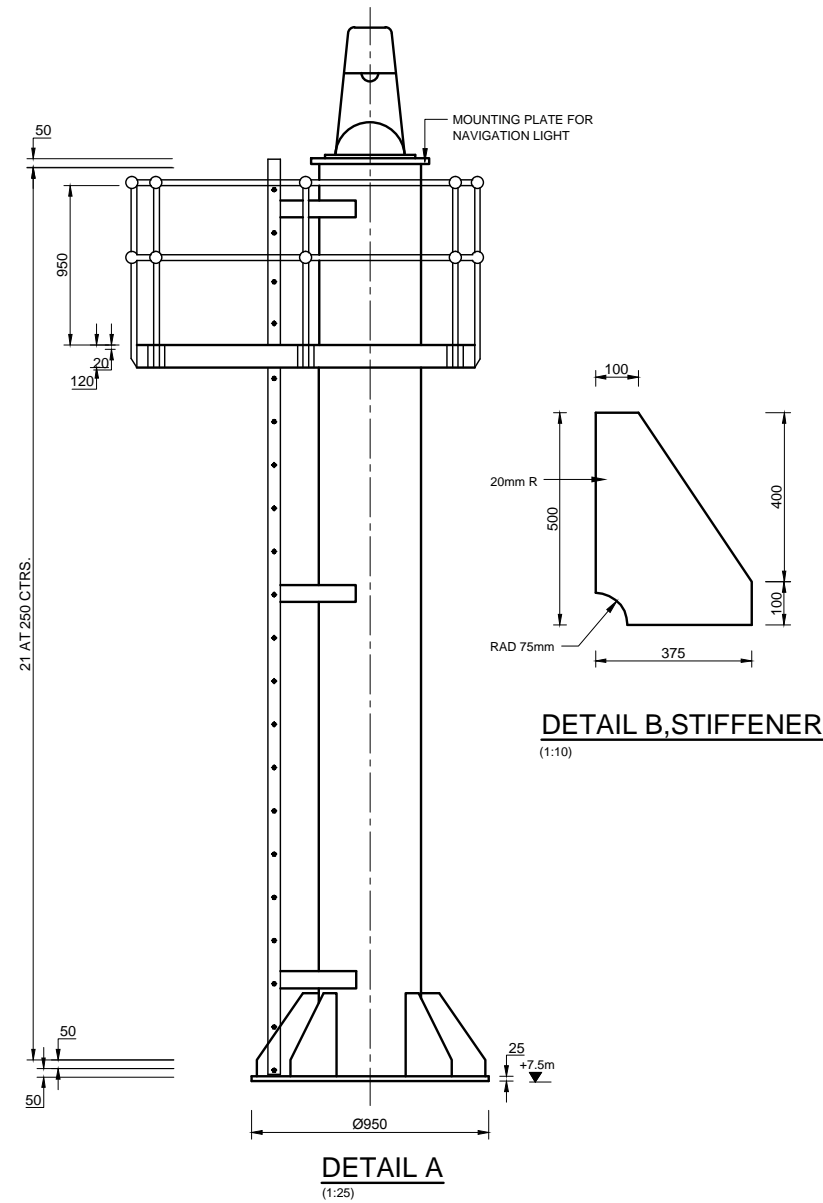
**ZAHREUDDIN
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Drawing Number	Rev
D030614/T-006	0

Drawing Number	Rev
D030614/T-007	0

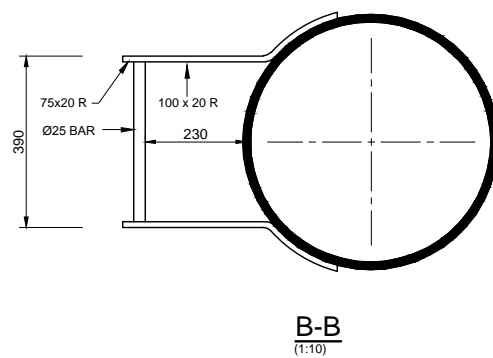


TYPICAL ELEVATION
(1:50)

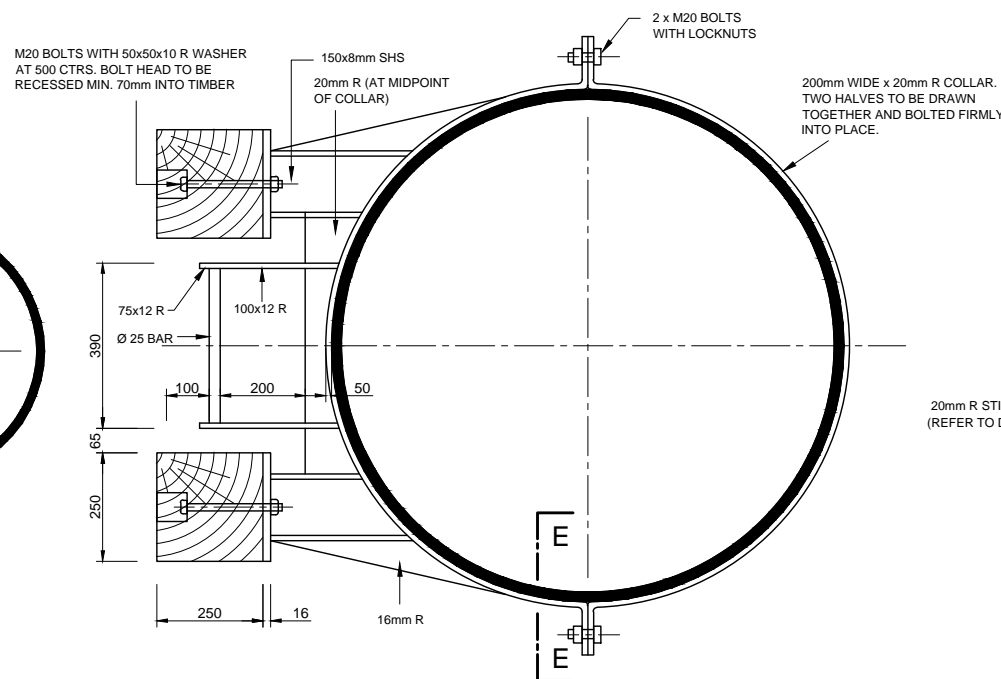


DETAIL A
(1:25)

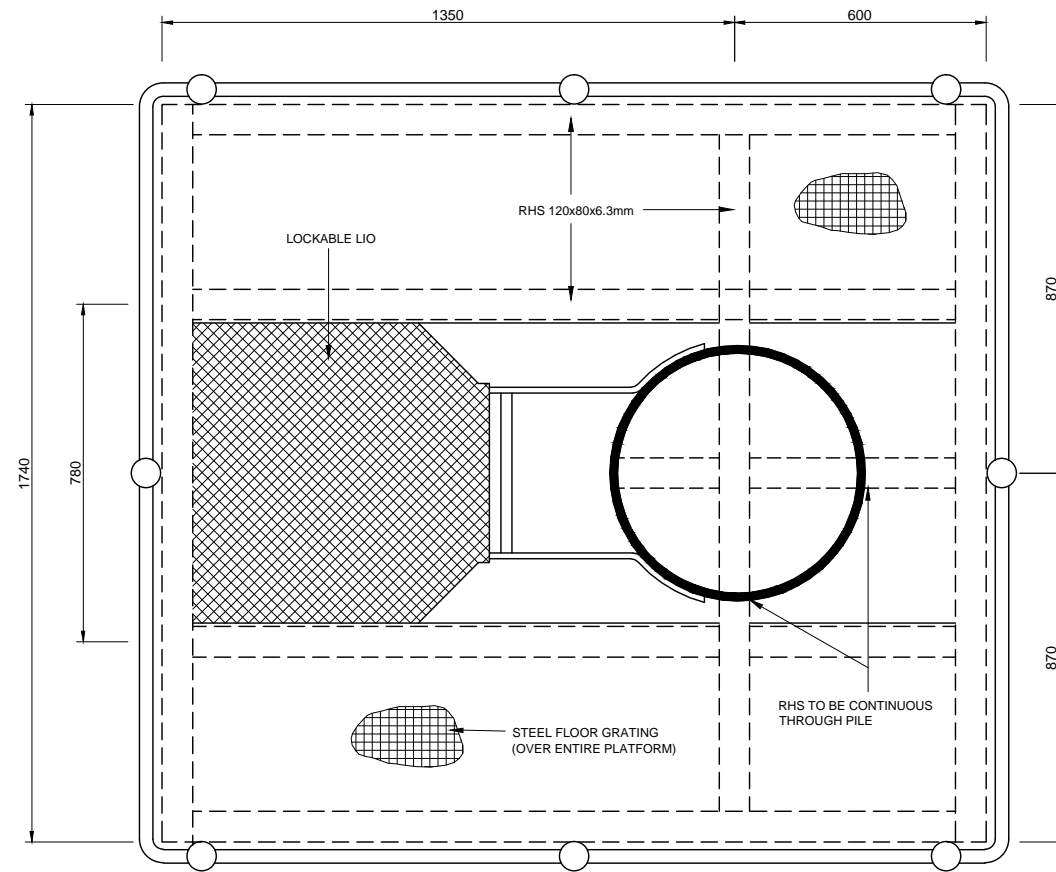
DETAIL B, STIFFENER
(1:10)



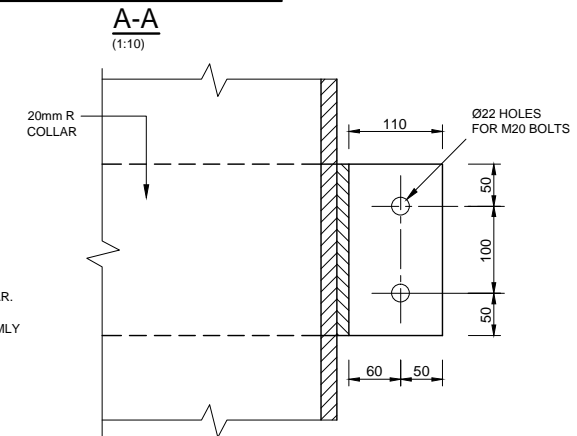
B-B
(1:10)



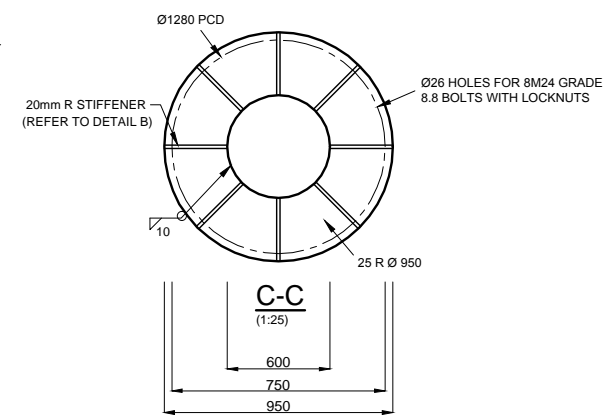
D-D
(1:10)



MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)



E-E
(1:5)



C-C
(1:25)

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NOTES

1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-07			
S.NO.	NAME	N	E
07	MP-7	275176.10	2748702.51

Revision Details	By	Check	Date	Suffix
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Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

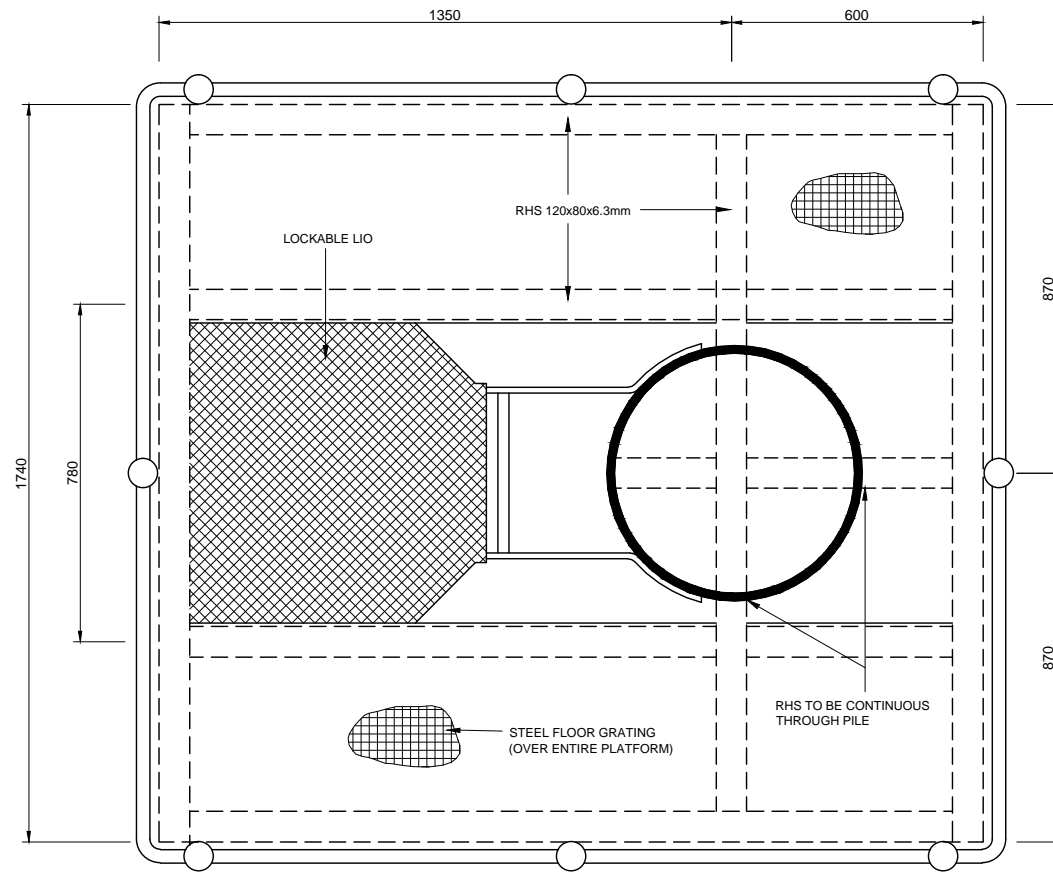
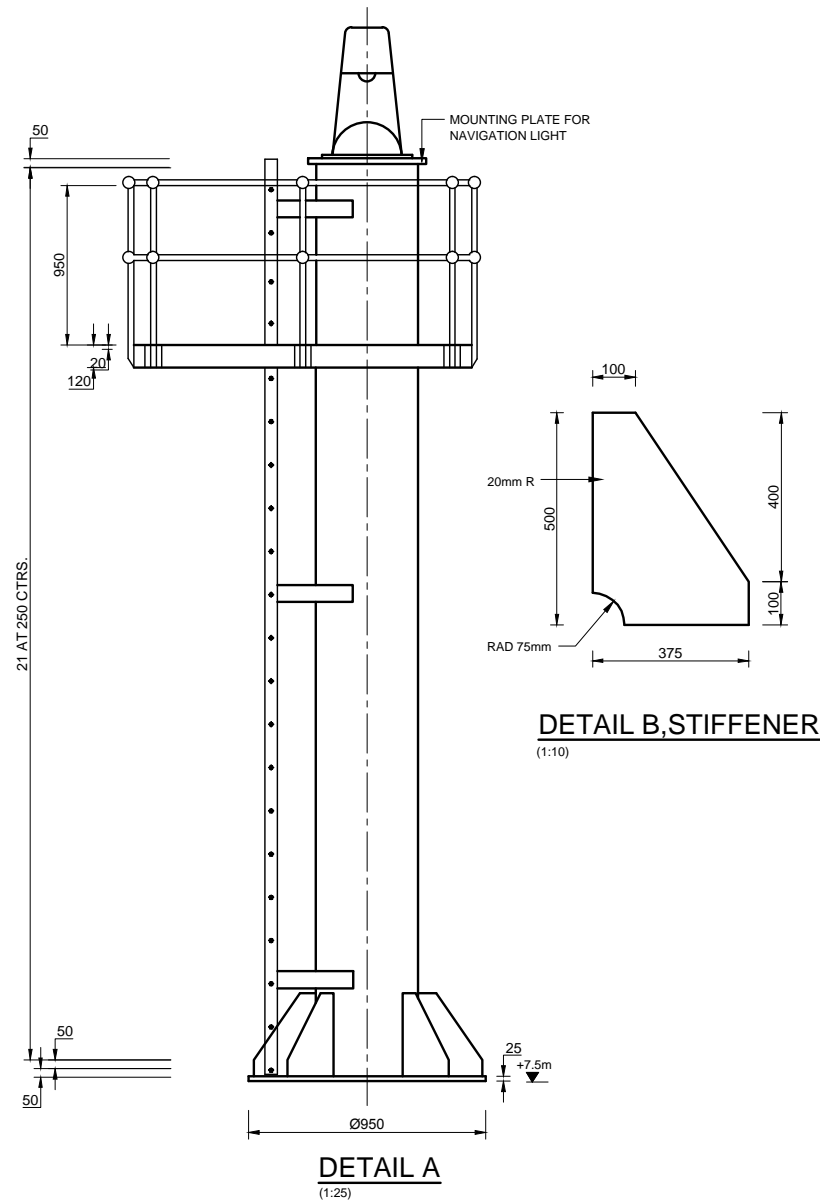
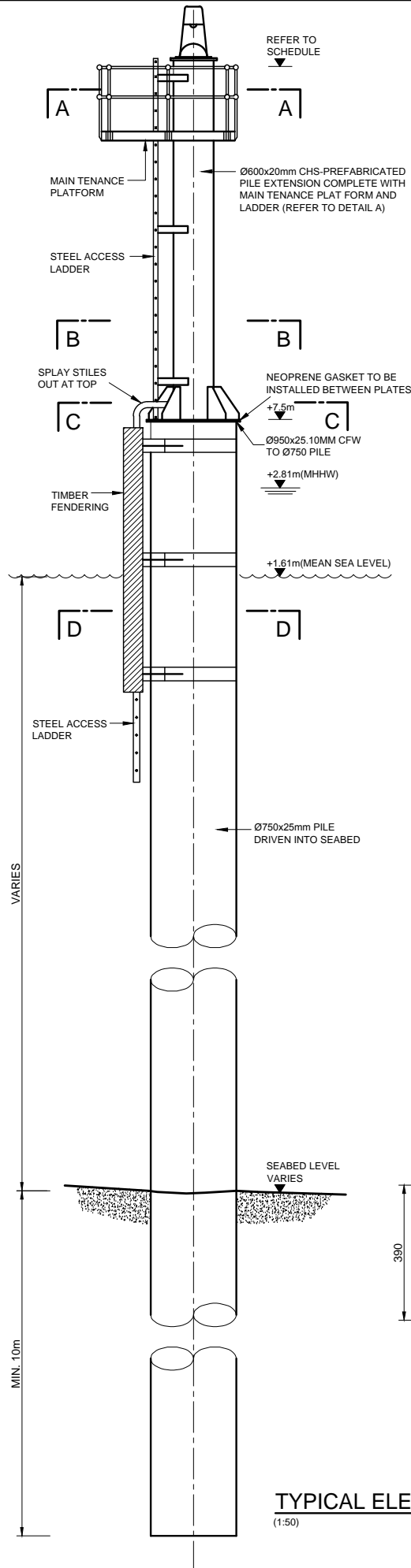
CONSTRUCTION OF
MARKER PILES
MP-07

Scale at A1
AS SHOWN

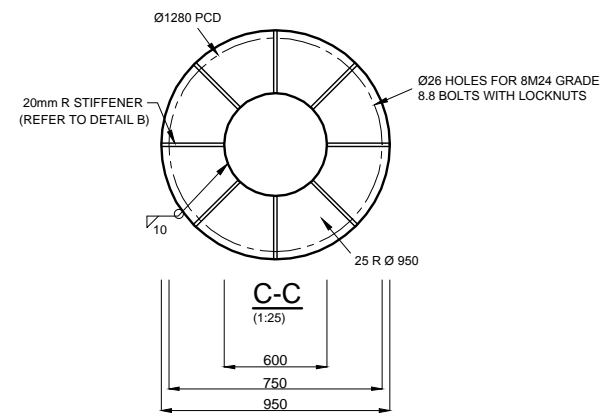
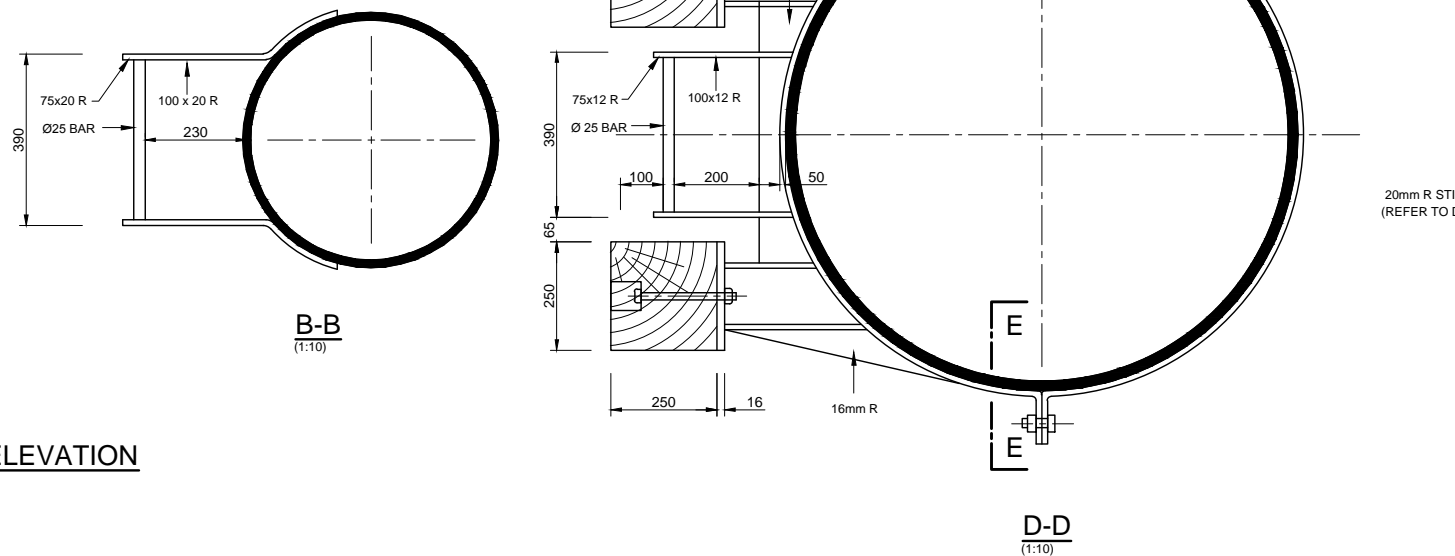
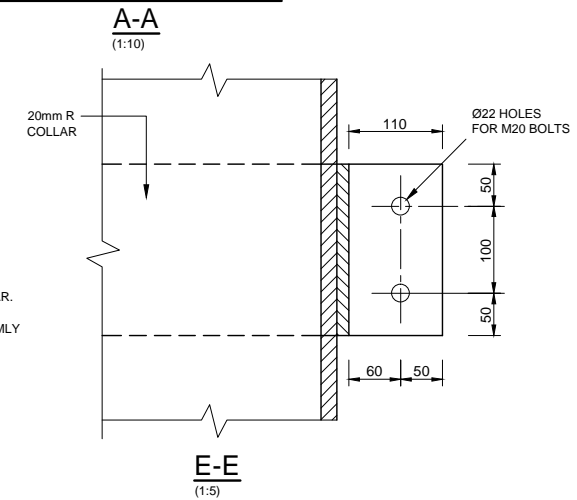
Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

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CONSULTANTS (Pvt.)
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ARCHITECTS ■ ENGINEERS ■ CONSTRUCTION MANAGERS
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Drawing Number	Rev
D030614/T-008	0



MAINTENANCE PLATFORM LAYOUT
(WITH LOCKABLE LID)



TYPICAL ELEVATION
(1:50)

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NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-08			
S.NO.	NAME	N	E
08	MP-8	274852.92	2748776.45

Revision Details	By	Check	Date	Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

CONSTRUCTION OF
MARKER PILES
MP-08

Scale at A1
AS SHOWN

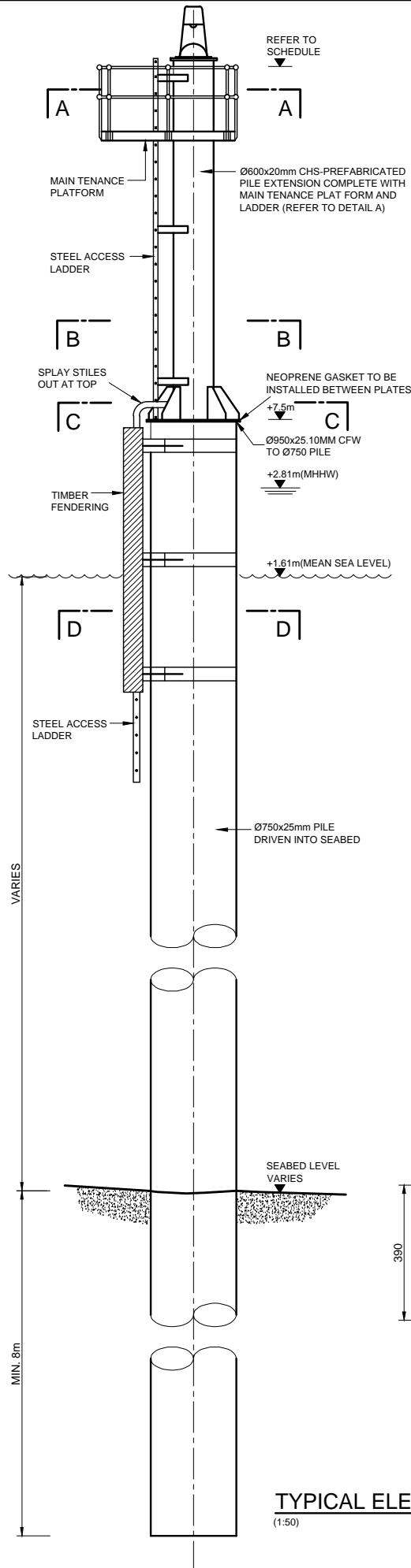
Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

ZAHEERUDDIN
CONSULTANTS (Pvt.)
LIMITED

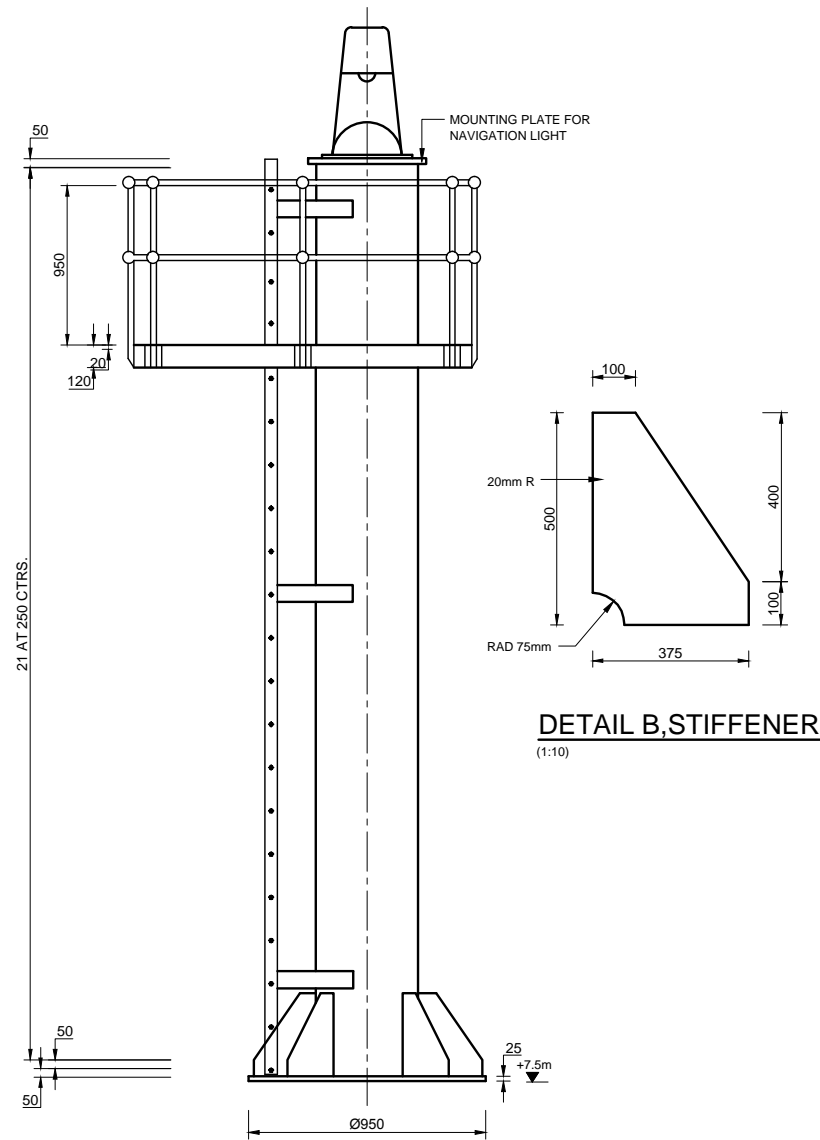
ARCHITECTS ENGINEERS CONSTRUCTION MANAGERS

5-A, SINDH MUSLIM SOCIETY, KARACHI-74000 PAKISTAN.

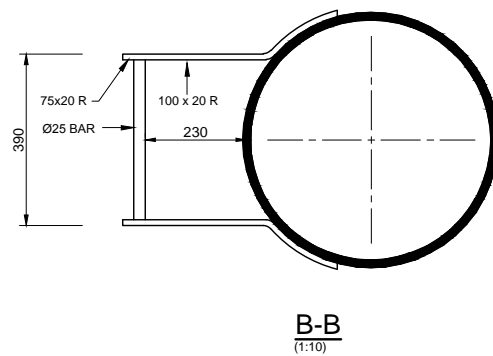
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D030614/T-009	0



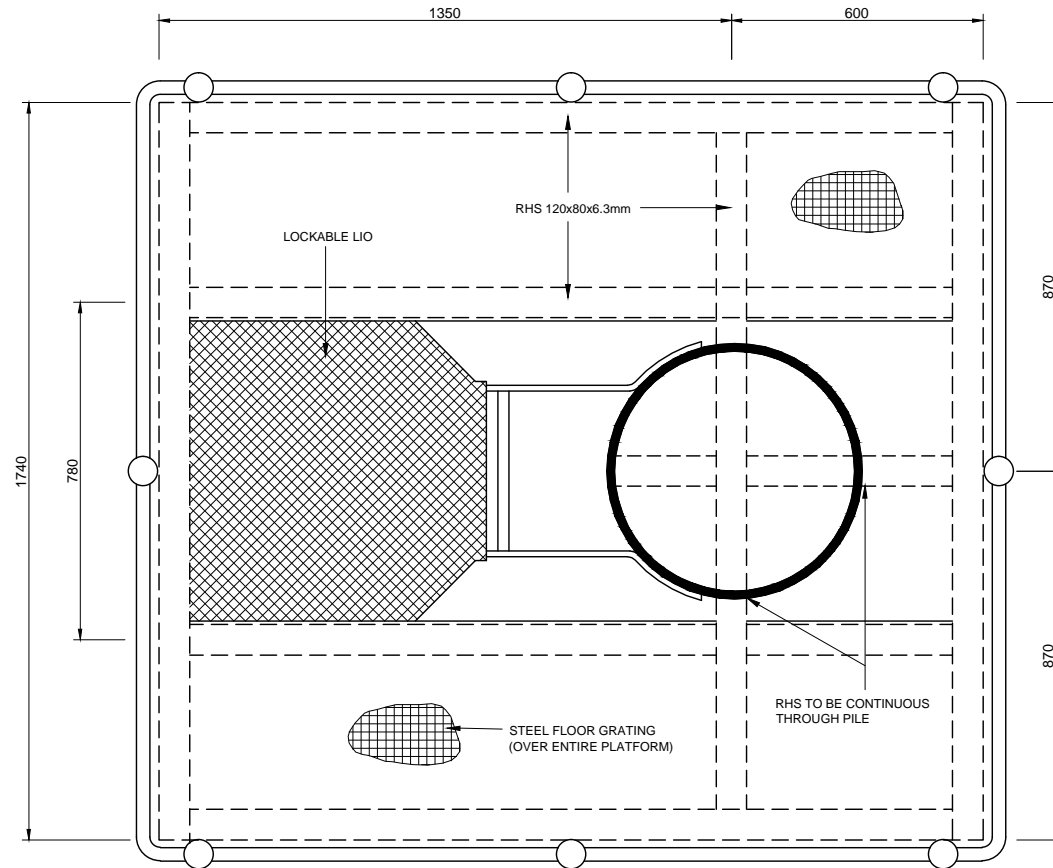
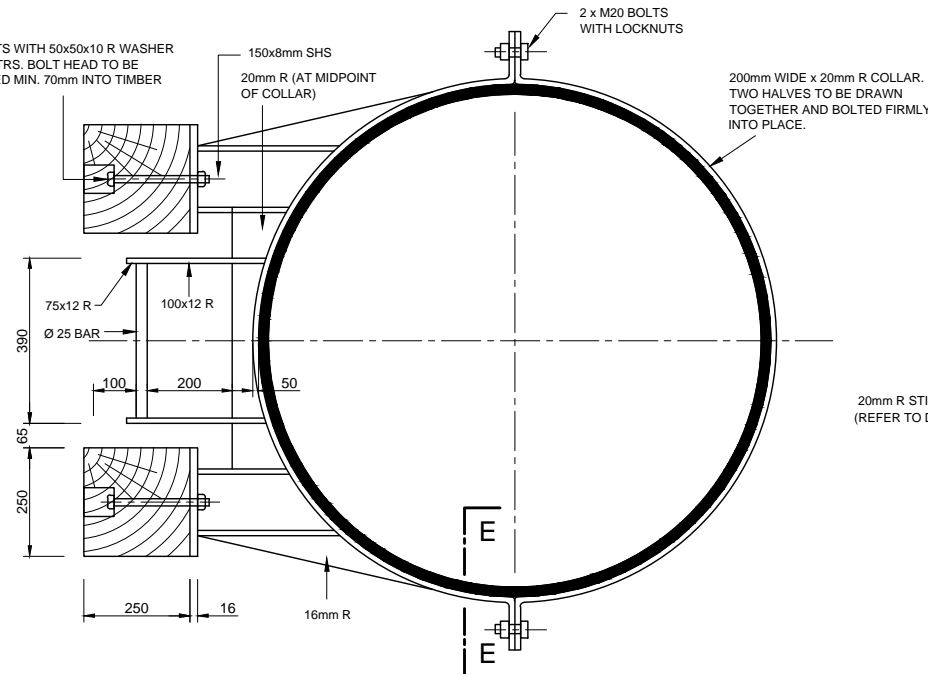
TYPICAL ELEVATION
(1:50)



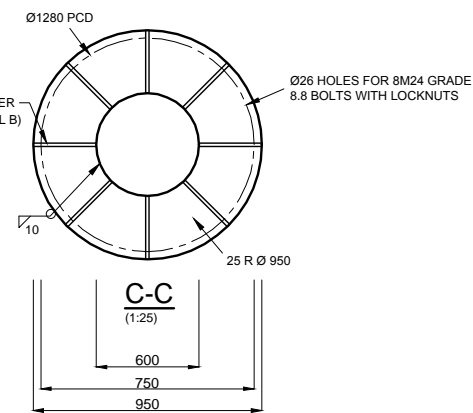
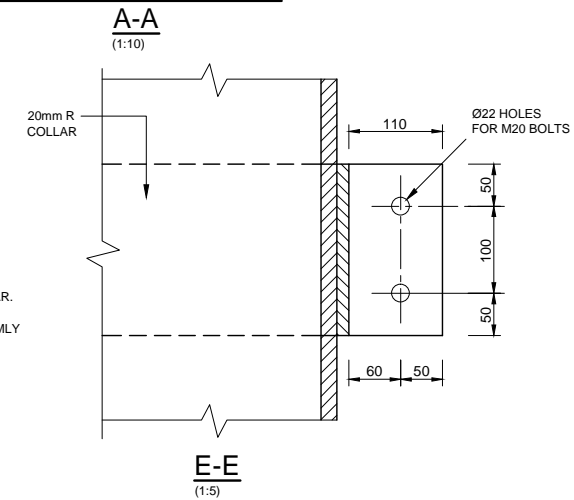
DETAIL A
(1:25)



M20 BOLTS WITH 50x50x10 R WASHER AT 500 CTRS. BOLT HEAD TO BE RECESSED MIN. 70mm INTO TIMBER



MAINTENANCE PLATFORM LAYOUT (WITH LOCKABLE LID)



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NOTES

1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-09			
S.NO	NAME	N	E
09	MP-9	274608.75	2748990.05

Revision Details	By	Check	Date	Suffix

Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

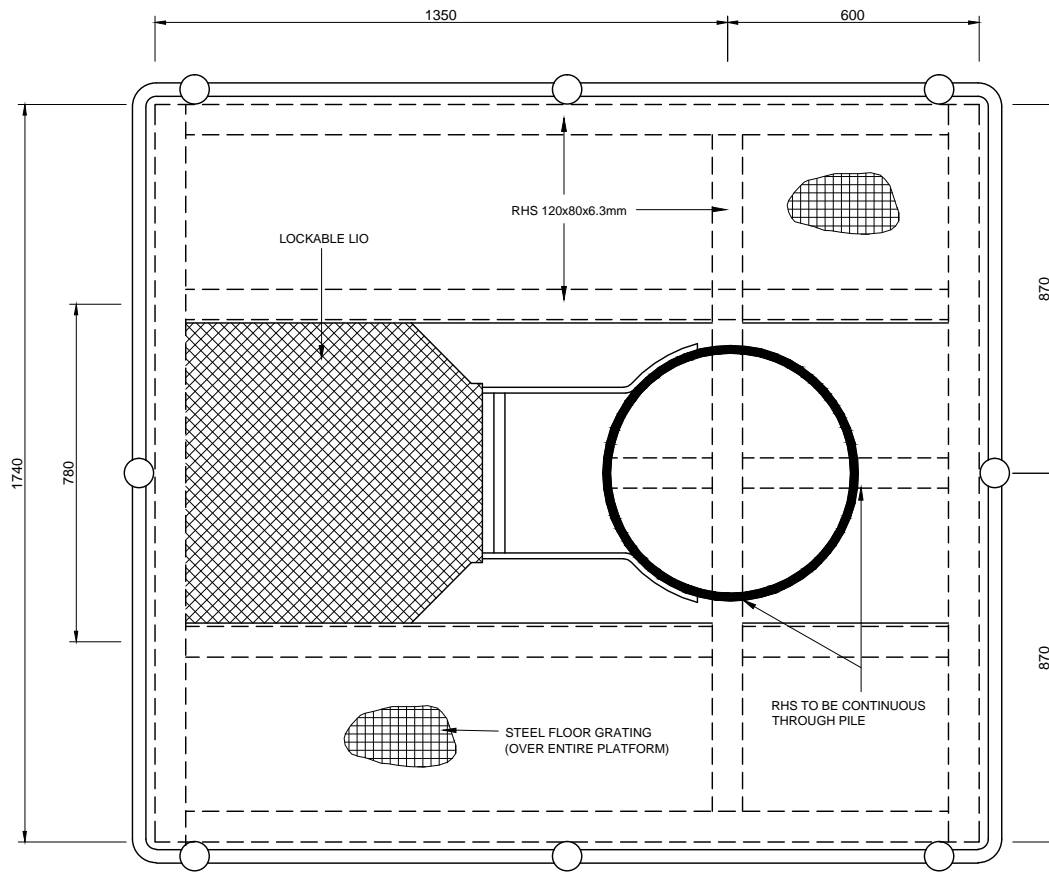
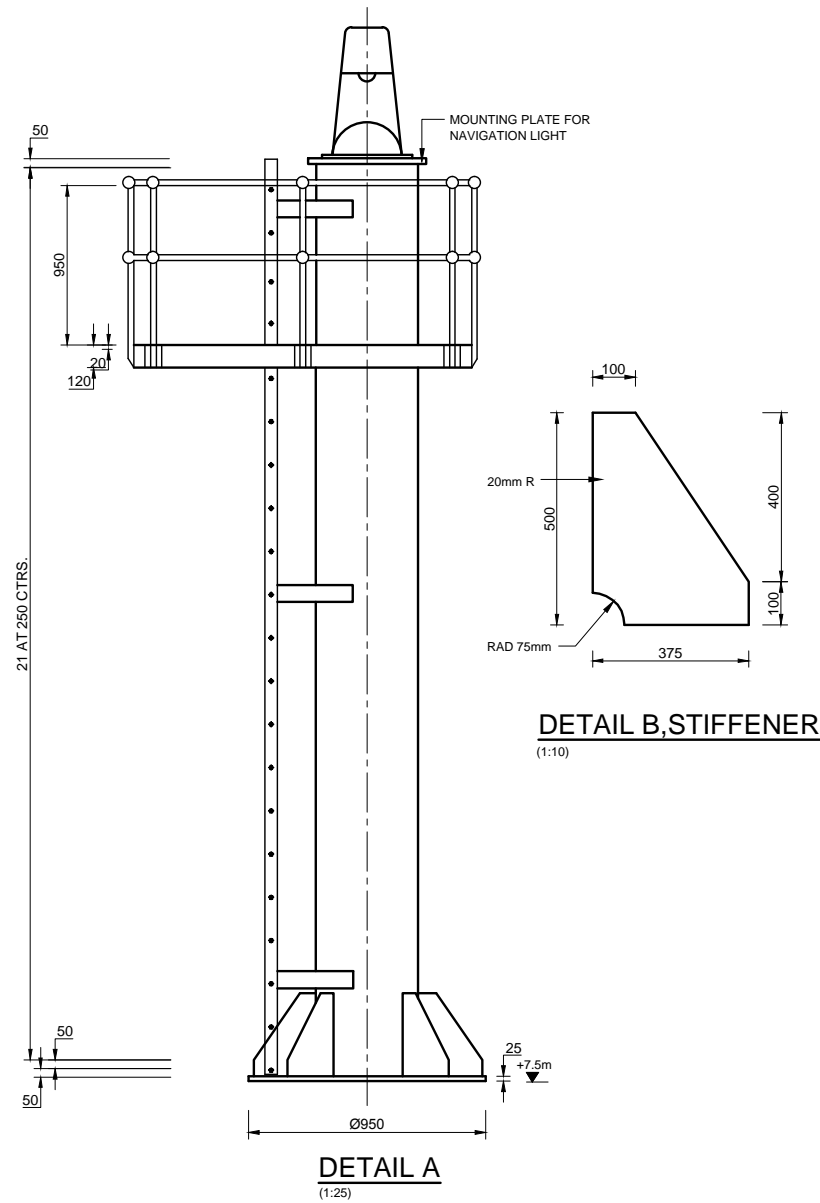
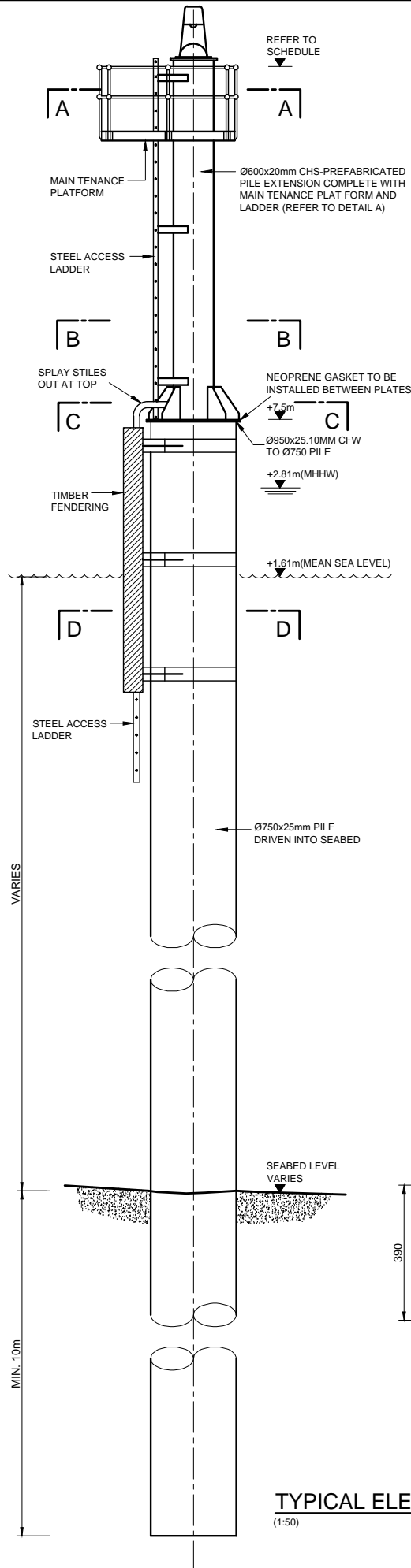
CONSTRUCTION OF
MARKER PILES
MP-09

Scale at A1
AS SHOWN

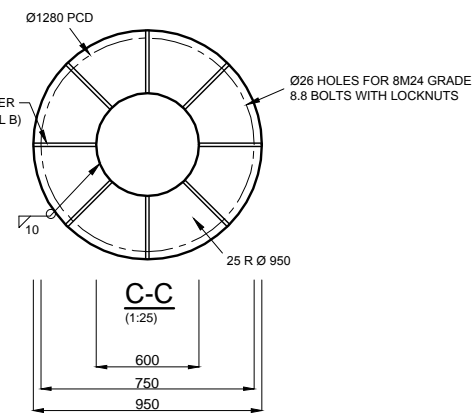
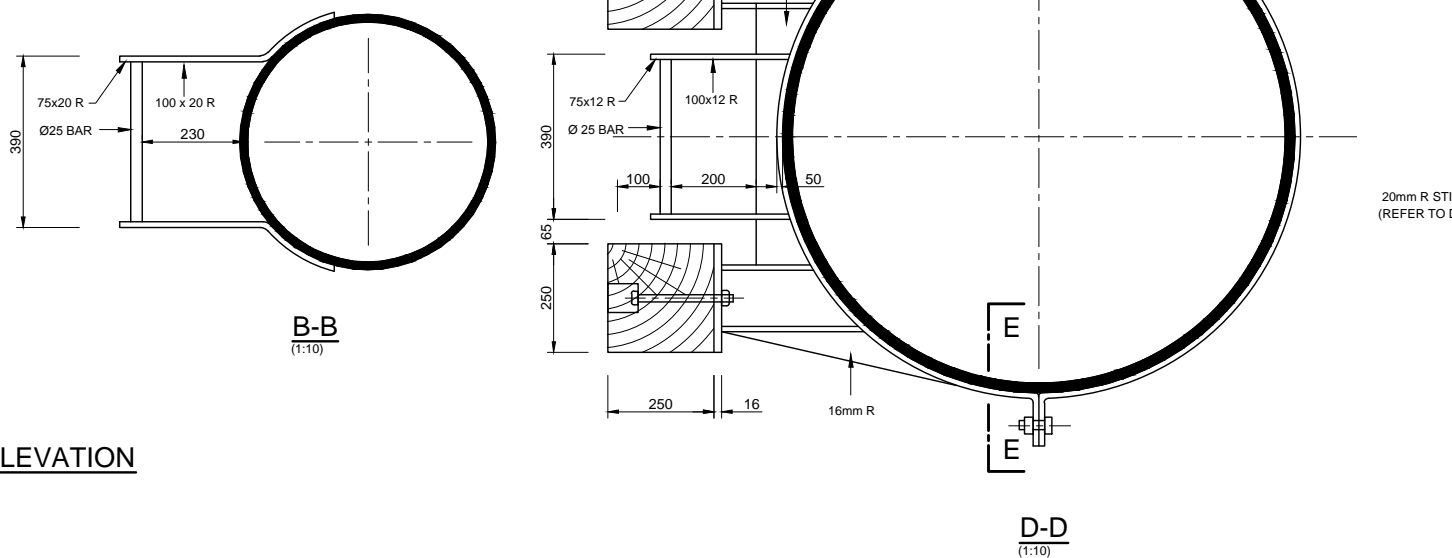
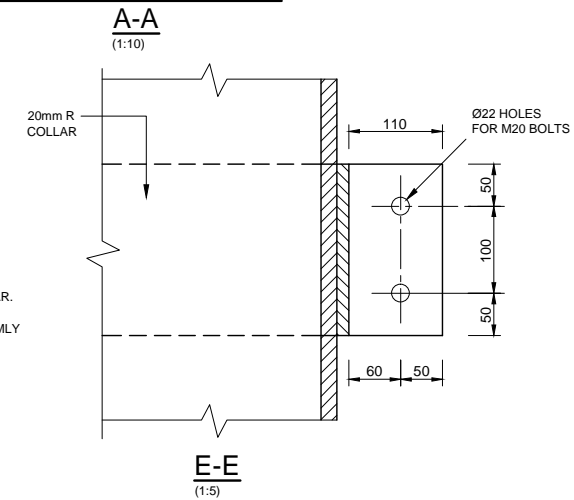
Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

**ZAHREUDDIN
CONSULTANTS (Pvt.)
LIMITED**
ARCHITECTS ENGINEERS CONSTRUCTION MANAGERS
5-A, SINDH MUSLIM SOCIETY, KARACHI-74000 PAKISTAN.

Drawing Number	Rev
D030614/T-010	0



MAINTENANCE PLATFORM LAYOUT (WITH LOCKABLE LID)



THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

NOTES

- 1-ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
- 2-LEVEL ARE IN METRES TO CHART DATUM.

CO-ORDINATES MP-10			
S.NO	NAME	N	E
10	MP-10	274577.16	2749348.94

Revision Details	By	Check	Date	Suffix
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Drawing Status

Job Title

PAKISTAN
NUCLEAR REGULATORY
AUTHORITY

Drawing Title

CONSTRUCTION OF
MARKER PILES
MP-10

Scale at A1
AS SHOWN

Drawn ASIF	Approved AP
Stage 1 check SRAR	Stage 2 check AP
Originated ZCL	Date May 14

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Drawing Number	Rev
D030614/T-011	0