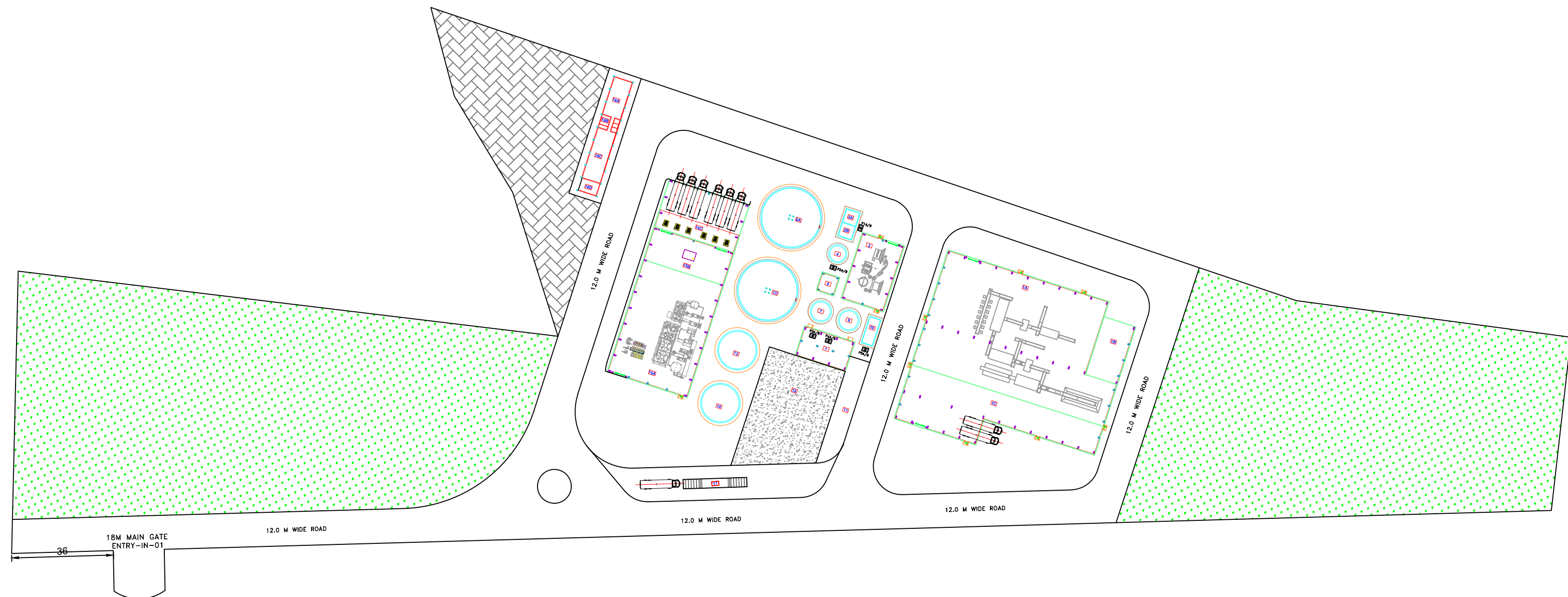


MORBI MSW PROCESSING PLANT LAYOUT



STRUCTURE NUMBER	PART	NAME	SIZE (IN TO IN CLEAR AVAILABLE)
1	1A	M.S.W SEGREGATION SHED	63M X 45M
	1B	DUMPING AREA	12.22M X 28.82M
	1C	M.R.F STORAGE	(75.5X11.04 + 31.74X10.0)
2	—	PRE-TREATMENT GRINDER SHED	16.0M X 25.5M
3	3A	MIXING TANK-1	5.0M X 5.0M X (3M +0.5F.B)
	3B	MIXING TANK-2	5.0M X 5.0M X (3M +0.5F.B)
4	--	HYDROLYSIS TANK	6.0M DIAMETER X (7.2M +0.5F.B)
5	--	BOILER+TANK CANOPY	6.34M X 6.7M
6	6A	DIGESTOR TANK-1	22.0M DIAMETER X (11M HEIGHT)
	6B	DIGESTOR TANK-2	22.0M DIAMETER X (11M HEIGHT)
7	—	DIGESTET TANK	7.0M DIAMETER X (5.2M +0.5F.B)
8	—	SCREW PRESS+VOLUTE PRESS SHED (G+1)	19.23M X 11M
9	—	SLS FILTRATE TANK	7.0M DIAMETER X (5.2M +0.5F.B)
10	—	LIQUID FERTILIZER TANK	4.0M X 10M X (2.5M+0.5F.B)
11	—	OPEN AREA FOR ETP	7.75M X 20M
12		OPEN AREA FOR FERTILIZER DRYING	30.0M X 26.75M
13	—	RAW GAS HOLDER	14.0M DIAMETER BALOON
14	—	SWEET GAS HOLDER	14.0M DIAMETER BALOON
15	15A	GAS UP-GRADATION SHED	31.04M X 44M
	15B	COMPRESSOR AREA	31.04M X 12.75M
	15C	FILLING AREA(ONLY CANOPY)	31.04M X 18.80M
16	16A	ADMIN BUILDING	6.97M X 14.55M
	16B	REST ROOM	3.27M X 05.00M
	16C	LABORATORY BUILDING	6.97M X 19.66M
	16D	D.G SET ROOM	6.97M X 04.66M
17	--	WEIGHT BRIDGE	32M X 03.5M
18	--	SECURITY CABIN	05.00M X 4.40M

DESCRIPTION: **MSW PROCESSING PLANT LAYOUT**



PROJECT MANAGEMENT CONSULTANT :
GUJARAT ENERGY RESEARCH AND
MANAGEMENT INSTITUTE (GERMI)



CLIENT :
MORBI MUNICIPAL CORPORATION

PROJECT TITLE:

MORBI MSW PROCESSING PLANT

SHEET CONTENT:

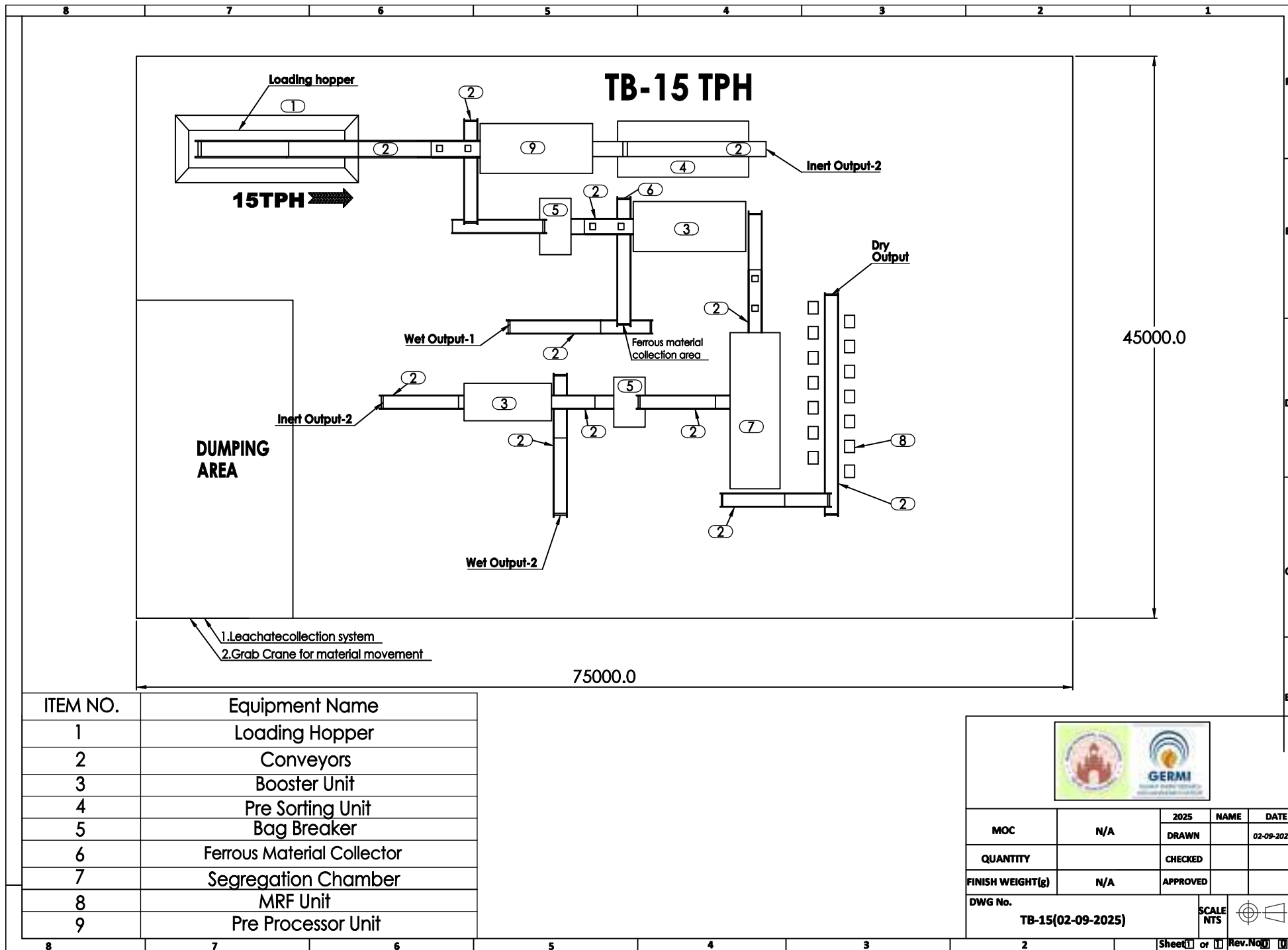
LAYOUT WITH PLOT BOUNDARY

DRAWN: CHECKED: APPROVED:

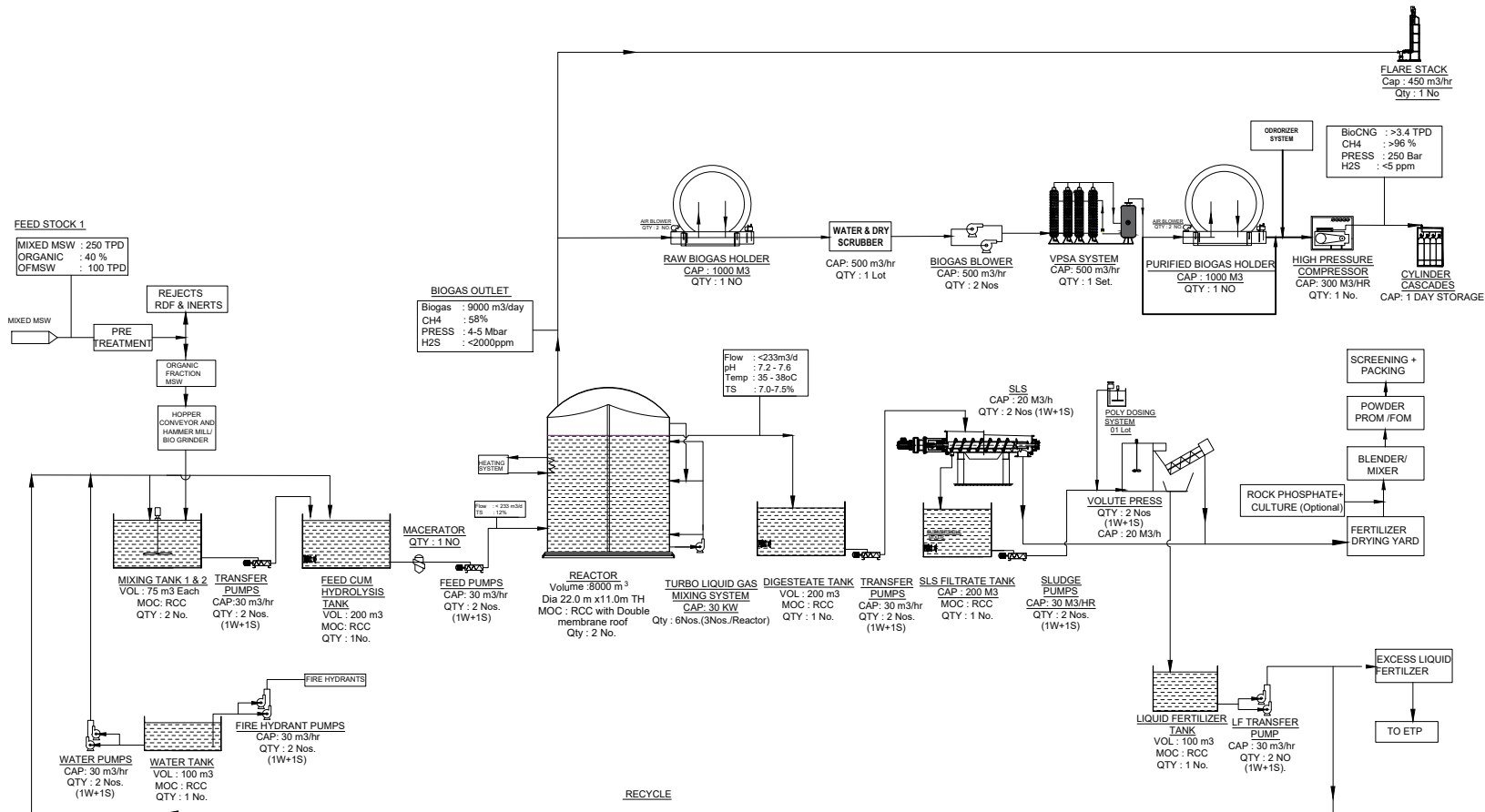
PROJECT CODE & NUMBER: **MMC** SCALE: **N.T.S**

DRAWING NO: **GERMI/MMC/MSW/01** SHEET NO. :

REV. 01 DATE: **12.03.26** 01 OF 01



PROCESS FLOW DIAGRAM - 250 TPD MSW TO BIOCNG & FOM PLANT



STRICTLY CONFIDENTIAL

REV	NO	DATE	DESCRIPTION	DESIGN	CHECKED	APPROVED
1	1	10/01/2024	10/01/2024	10/01/2024	10/01/2024	10/01/2024
CONSULTANT: GUJARAT ENERGY RESEARCH AND MANAGEMENT INSTITUTE						
CLIENT: MORBI MUNICIPAL CORPORATION						
PROJECT TITLE: 250 TPD MSW TO BIOCNG						
SHEET CONTENT: PROCESS FLOW DIAGRAM						
SCALE: N.T.S	PROJECT NUMBER: -	PLANT: -	DATE: -			
DRAWING NO: GERMI/PPD/01	SHEET NO: 01	OF: 01	REV: 00			

250 TPD MSW TO BIOCNG -MASS BALANCE DETAILS

1.RAW MIXED WASTE		
Total Waste	250.0	TPD
Organic Fraction	40.0	%
Organic waste	100	TPD

2.AFTER SEGREGATION		
Feed	100.0	TPD
TS	28.00	%
VS	22.40	%
VS	80.00	%

3.REACTOR MIXING TANK		
TS	28000	Kg/day
VS	22400	Kg/day
pH	6.7 - 7.0	
Total Water req	233	m3/day
Sludge Consistency	12	%
Water/recycle	133	m3/day

15 RAW FRESH WATER FOR DILUTION		
Flow	0	m3/day
Solids	0	Kgs/day
TS	0.00	%
Qty	0	Kgs/day

7.REACTOR GAS OUTLET		
Biogas genera	9000.0	nm3/day
VS destroyed	12760	Kgs/day
Methane	58	%
H2S	2000	ppm

4. REACTOR		
Flow	233.3	m3/day
TS	29265	Kg/day
VS	23200	Kg/day
TS	12.54	%
VS	79.28	%

8. SCRUBBER SYSTEM		
Biogas	9000	m3/day
Methane	58	%
Pressure	3000	mBar(g)
H2S	<10	ppm

5. DIGESTATE TANK		
Flow	233	m3/day
TS	16505	Kg/day
oVS	10440	Kg/day
TS	7.07	%
VS	63.25	%

9. BIOCNG OUTLET		
BioCNG	5003	m3/day
Methane	3452	Kgs/day
Methane	96	%
Pressure	250	Bar

6. DEWATERING(2 STAGES)		
Flow	233	m3/day
TS qty	16505	Kg/day
oVS	10440	Kg/day
TS	7.1	%
VS	63.25	%

Solids Capture 90%

11. LIQUID FERTILIZER TANK		
Flow	174	m3/day
TS	1651	Kg/d
TS	0.95	%
VS qty	1044	Kgs/day

11.EXCESS LFOM TO ETP		
Flow	41	m3/day
Solids	386	Kgs/day
TS	0.95	%
Qty	40582	Kgs/day

10. SOLIDS OUTLET		
Dry solids (100%)	14855	Kg/day
with 25% solids	59418	kgs/day
TS	25	%
Moisture	75	%

12. INLET TO COMPOSTING PLANT		
Dry solids (100%)	14855	Kg/day
Water + Solid	59418	kgs/day
TS	25	%

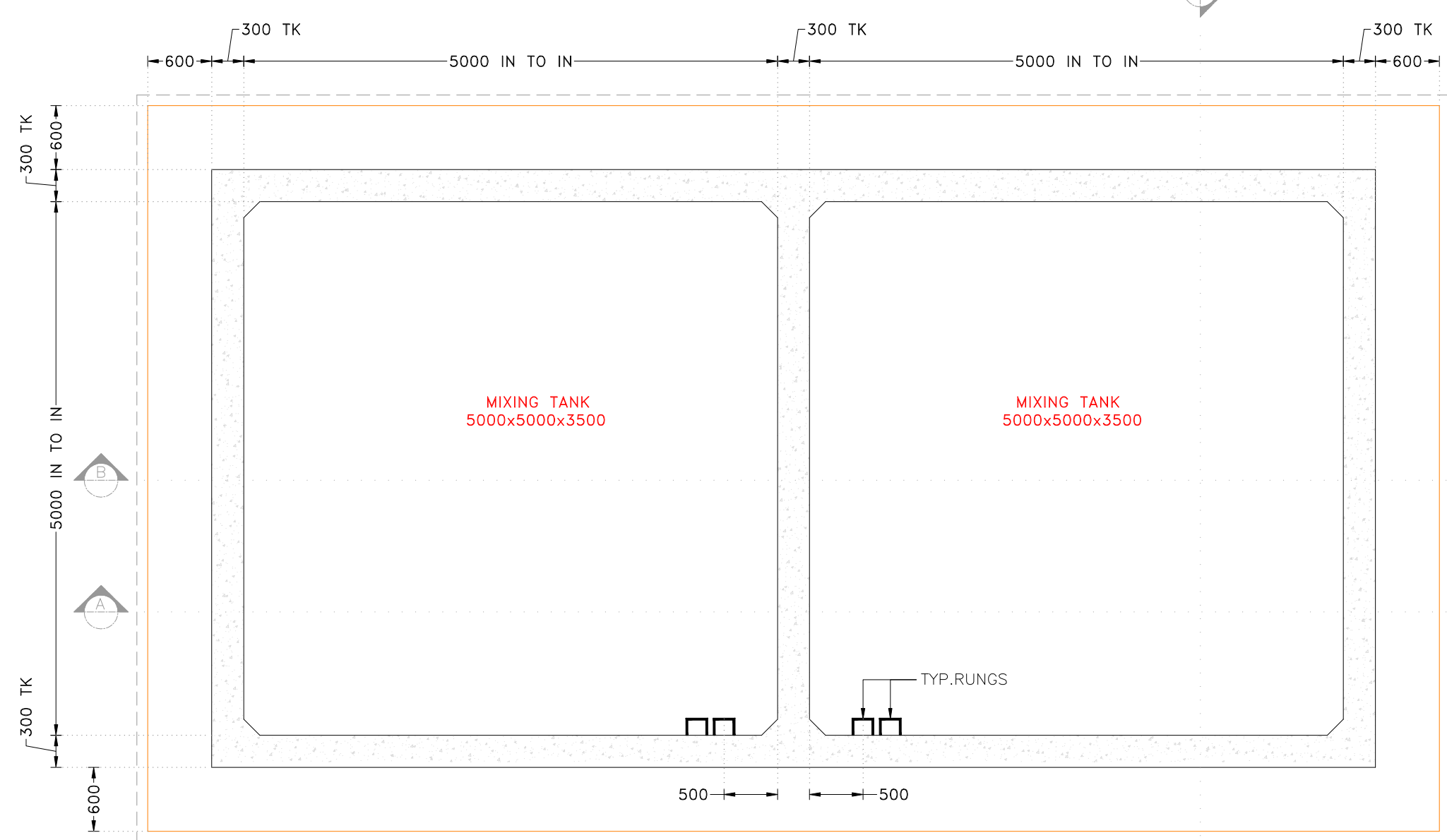
13. FINAL FOM		
Qty Dry Basis	14855	Kg/day
With 80% Solids)*	16711	Kg/day

80%

1. Specific gravity is not considered for converting m3 to Kgs

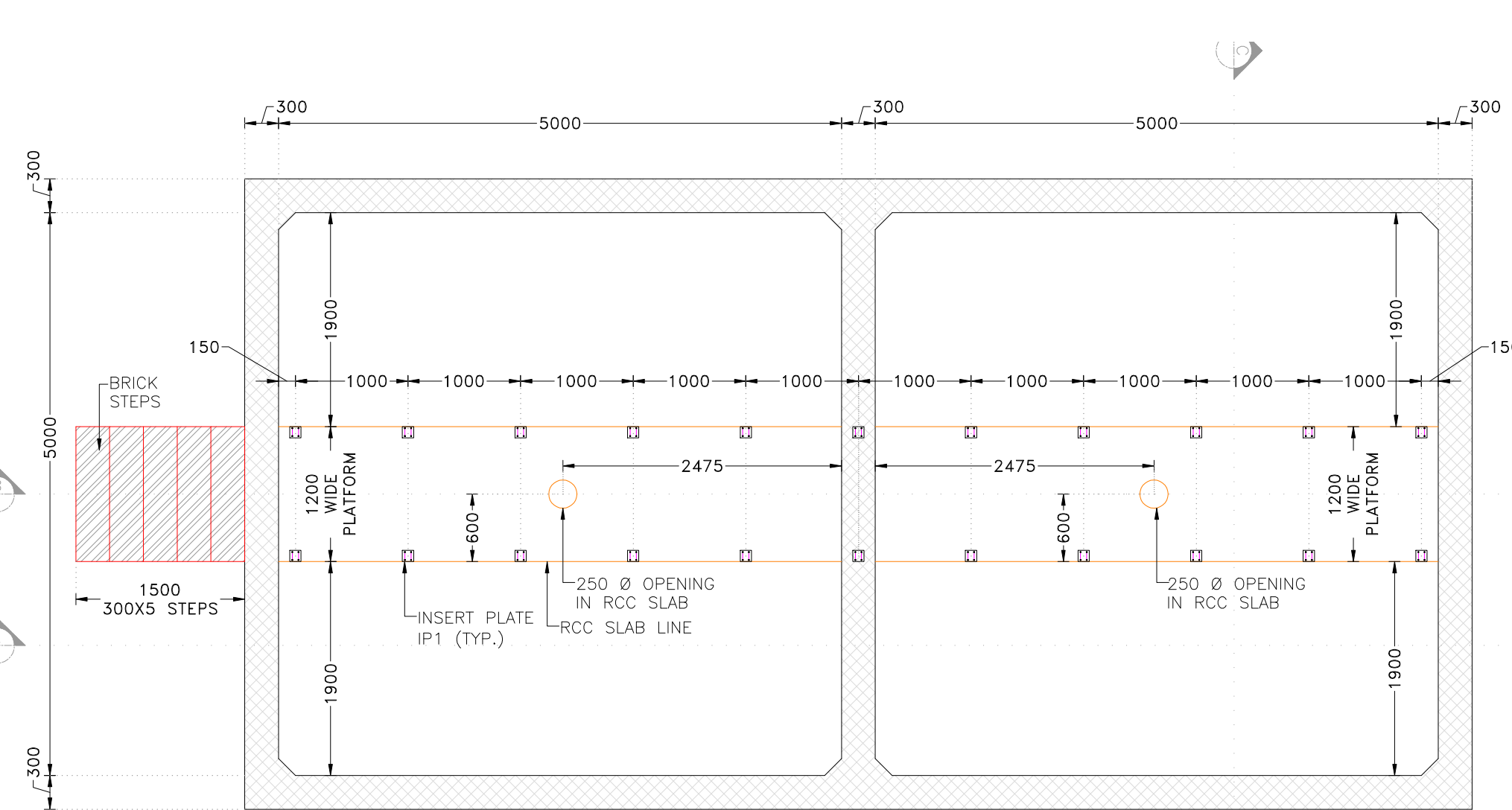
*Considered 10% impurities /reject

MIXING TANK



LAYOUT AT FOUNDATION LEVEL

SCALE 1:50

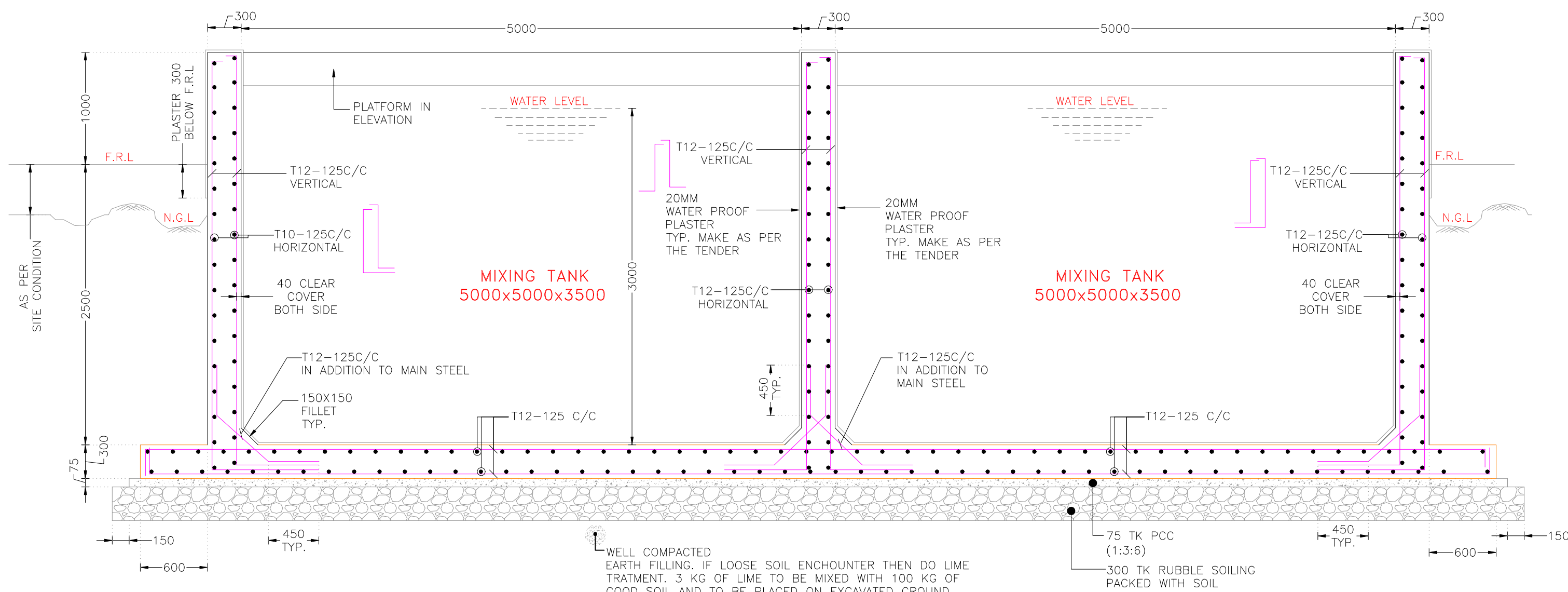


LAYOUT AT SLAB

SCALE 1:50

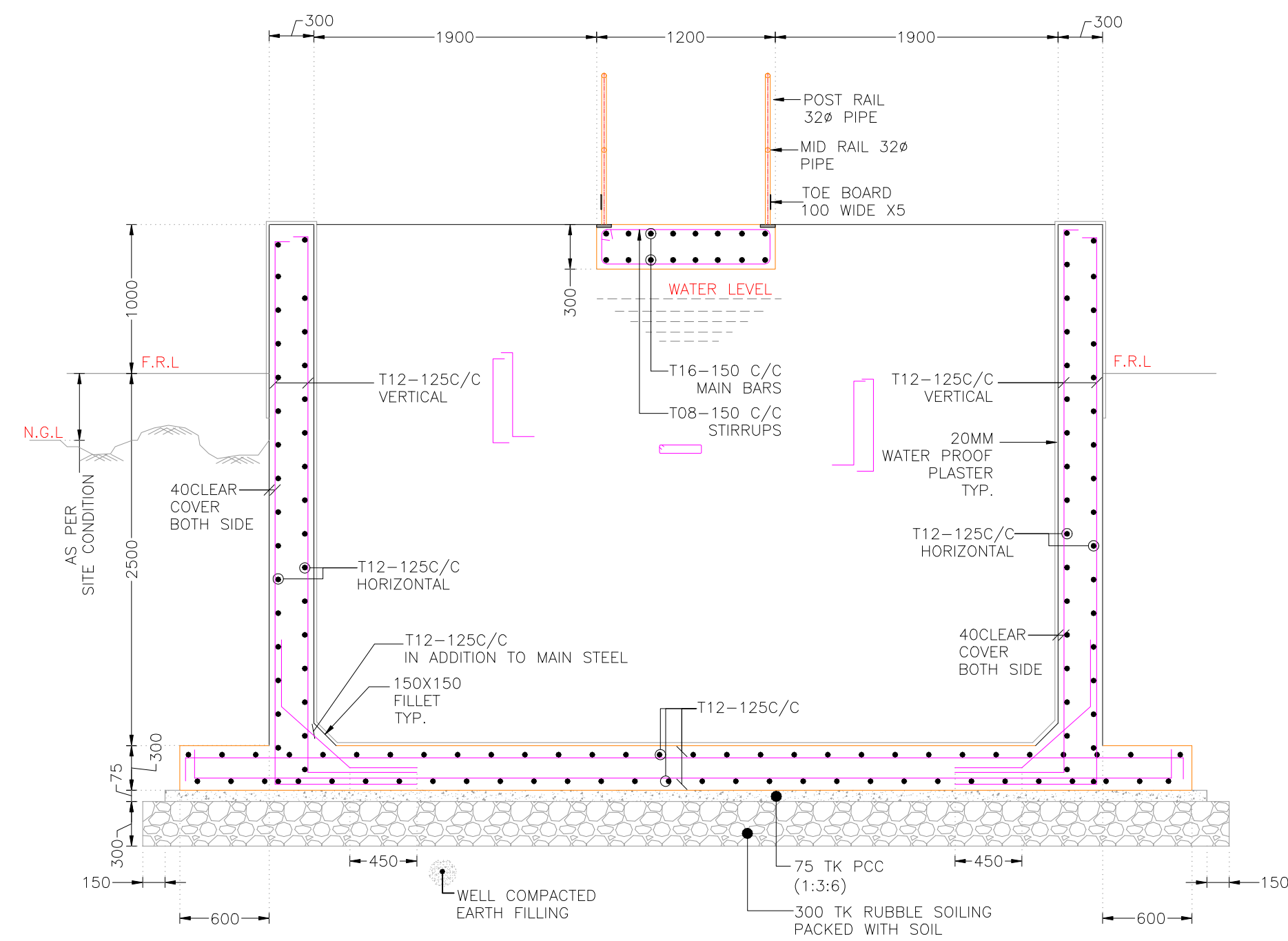
R.C.C. WALL STOP AT THIS LEVEL

100
50
100
100
2 NOS
OF T-10
PL : 100X100X10 MM TK
[DETAILS FOR IP-1]
SCALE 1:15



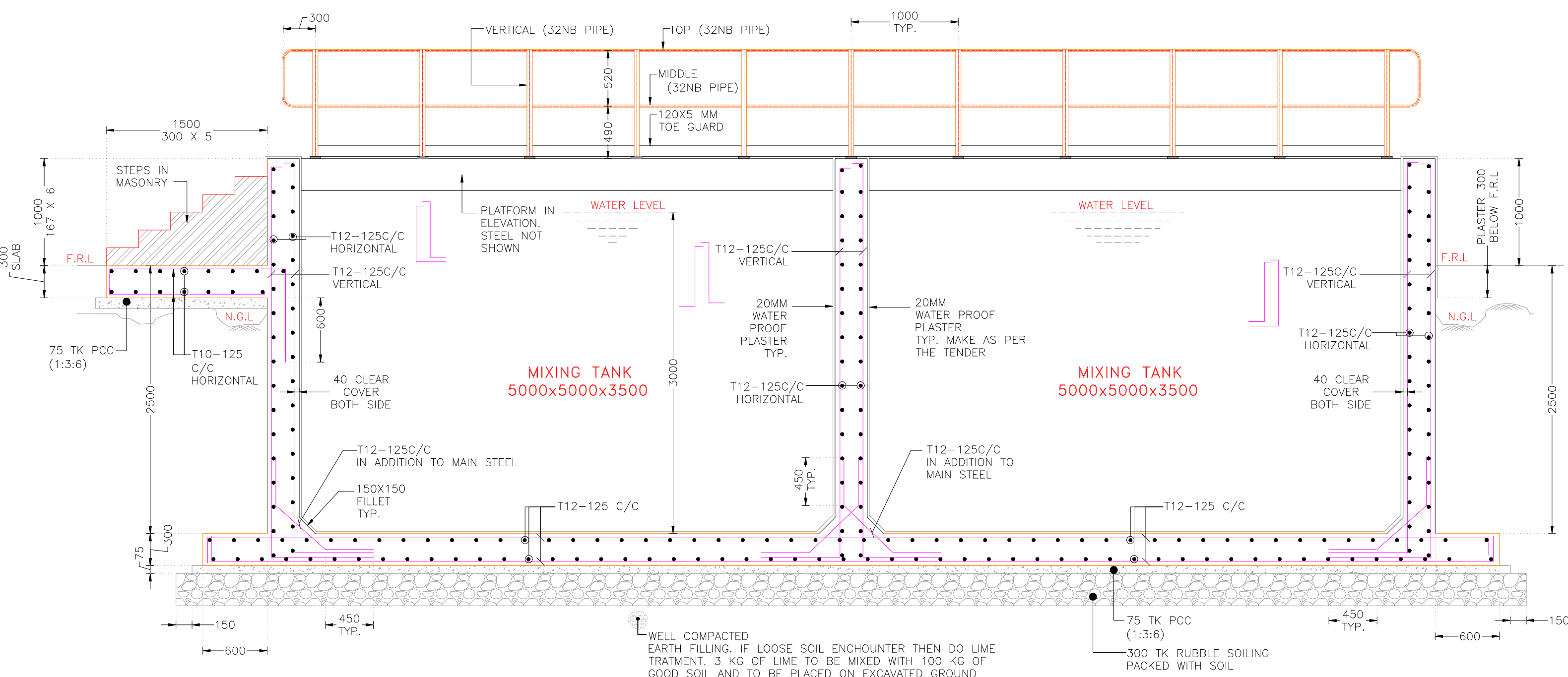
SECTION A-A

SCALE 1:35



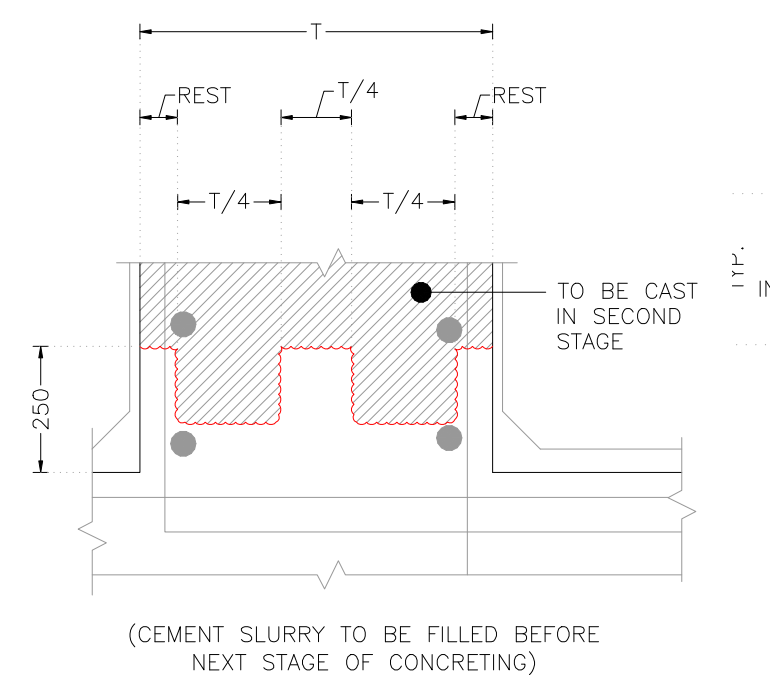
SECTION C-C

SCALE 1:35



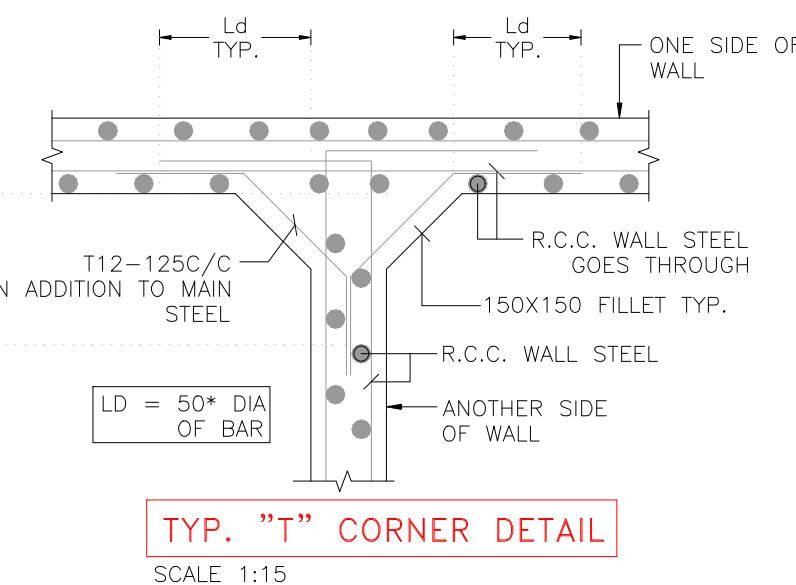
SECTION B-B

SCALE 1:35



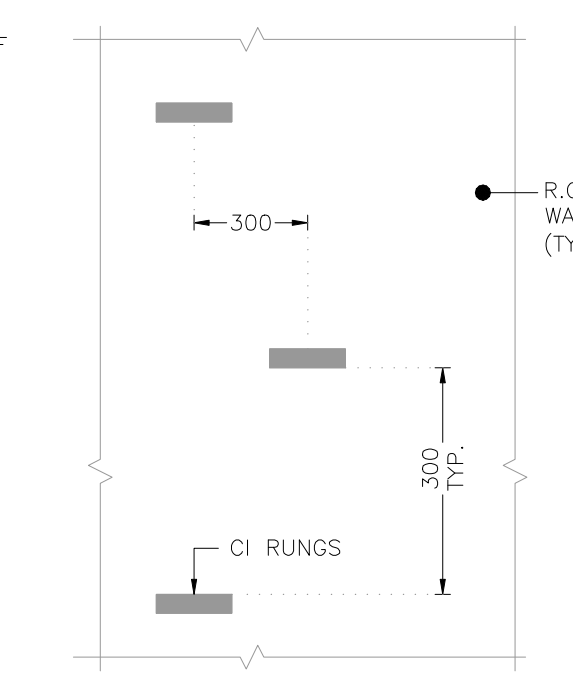
TYPICAL CONSTRUCTION JOINT DETAIL

SCALE 1:15



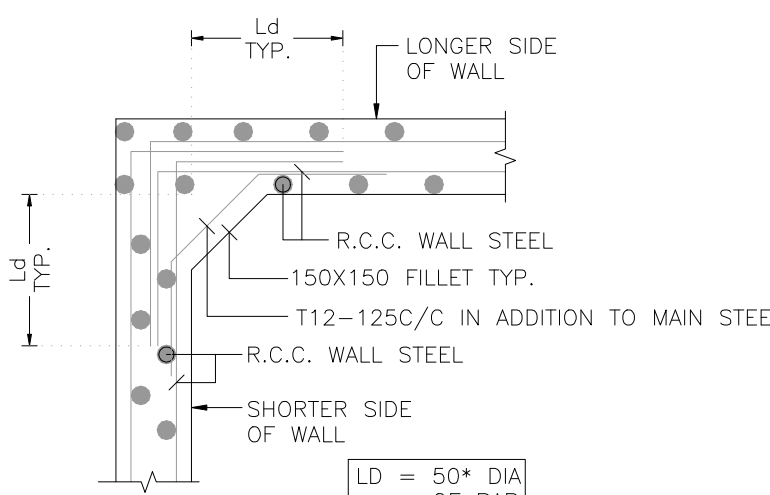
TYP. "T" CORNER DETAIL

SCALE 1:15



TYPICAL DETAILS OF RUNGS

SCALE 1:20



TYP. "L" CORNER DETAIL

SCALE 1:15

THESE ALL ARE TENDER DRAWINGS ONLY. ONLY FOR TENDER PURPOSE. NOT FOR CONSTRUCTION PURPOSE. BEFORE STARTING THE CONSTRUCTION TAKE AN APPROVAL FROM THE CONCERN AUTHORITY

CONFIDENTIAL STATEMENT:-

THIS DRAWING IS THE PROPERTY OF P.VORA DESIGN AND ENGINEERING CONSULTANTS. THIS INFORMATION IS CONFIDENTIAL AND IS TO BE USED IN CONNECTION WITH WORK DESCRIBED BY P.VORA DESIGN AND ENGINEERING CONSULTANTS. NO PART IS TO BE DISCLOSED OR COPY TO OTHER WITHOUT WRITTEN PERMISSION FROM P.VORA DESIGN AND ENGINEERING CONSULTANTS.

GENERAL NOTES:-

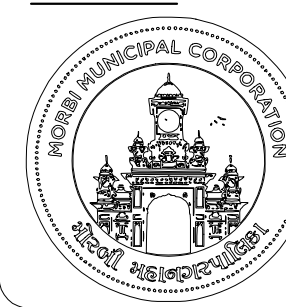
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- ALL RCC WORK HAVE TO BE DONE IN CONTROLLED CONCRETE OF GRADE **M30** WHICH HAS MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = **30 N/mm²**
- ALL REINFORCEMENT MARKED WITH "T" DENOTES HIGH STRENGTH DEFORMED BAR OF GRADE **Fe500** CONFINING TO IS:1786, WITH MINIMUM YIELD STRENGTH = 500 N/mm²
- CONSTRUCTION SHALL BE STRICTLY IN ACCORDANCE WITH IS:456-2000.
- MINIMUM ANCHORAGE LENGTH SHALL BE 50 X DIA OF BAR.
- NET S.B.C CONSIDERED FOR FOOTING **15MT/M²** AT THE DEPTH OF **2.0m FROM N.G.L.**
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE FOLLOWING.
 - FOOTING = 50 MM
 - BEAM = 30 MM
 - COLUMN = 40 MM
 - SLAB = 25 MM
- ALL BUILDING LAYER/ LEVELING COURSE SHALL BE WITH P.C.C **M10 (1:3:6)**.
- OVER EXCAVATION BELOW THE FOOTING OF THE BUILDING SHALL BE DONE IN **P.C.C ONLY**.
- IF ANY POCKETS/LOOSE SOIL STRATA ENCOUNTER DURING EXCAVATION, SAME SHALL BE FILLER WITH P.C.C AND BROUGHT UP TO THE FOULING LEVEL OF STRUCTURAL MEMBER A REQUIRED.
- ALL RELEVANT INSERT PLATE AND ANCHORED BARS ETC. ARE TO BE PLACED IN POSITION , PRIOR TO CONCRETING OF MEMBER AS REQUIRED.
- F.F.L & F.R.L AS PER MASTER LAYOUT
 - N.G.L = NATURAL GROUND LEVEL
 - F.G.L = FINISHED GROUND LEVEL
 - F.F.L = FINISHED FLOOR LEVEL

ALL F.R.L (FINISHED ROAD LEVEL) TO BE CONSIDERED AS PER SCHEDULE GIVEN IN THE MASTER LAYOUT

REV.	DATE	PURPOSE	BY
R0	00-00-00		PJV

REVISION HISTORY

CLIENT



ADDRESS:
MORBI MUNICIPAL CORPORATION
15, VASANT PLOT MAIN ROAD, SARDAR NAGAR, MORBI-363641

CONSULTANTS



ADDRESS:
GUJARAT ENERGY RESEARCH & MANAGEMENT INSTITUTE
1st FLOOR, ENERGY BUILDING FDPU CAMPUS, RAISAN VILLAGE, GANDHINAGAR, GUJARAT-382 007
CONTACT:
information@germi.org

PROJECT NUMBER:- 4925

BUILDING NAME:- MIXING TANK

PROJECT NAME:- MORBI BIO CNG PLANT

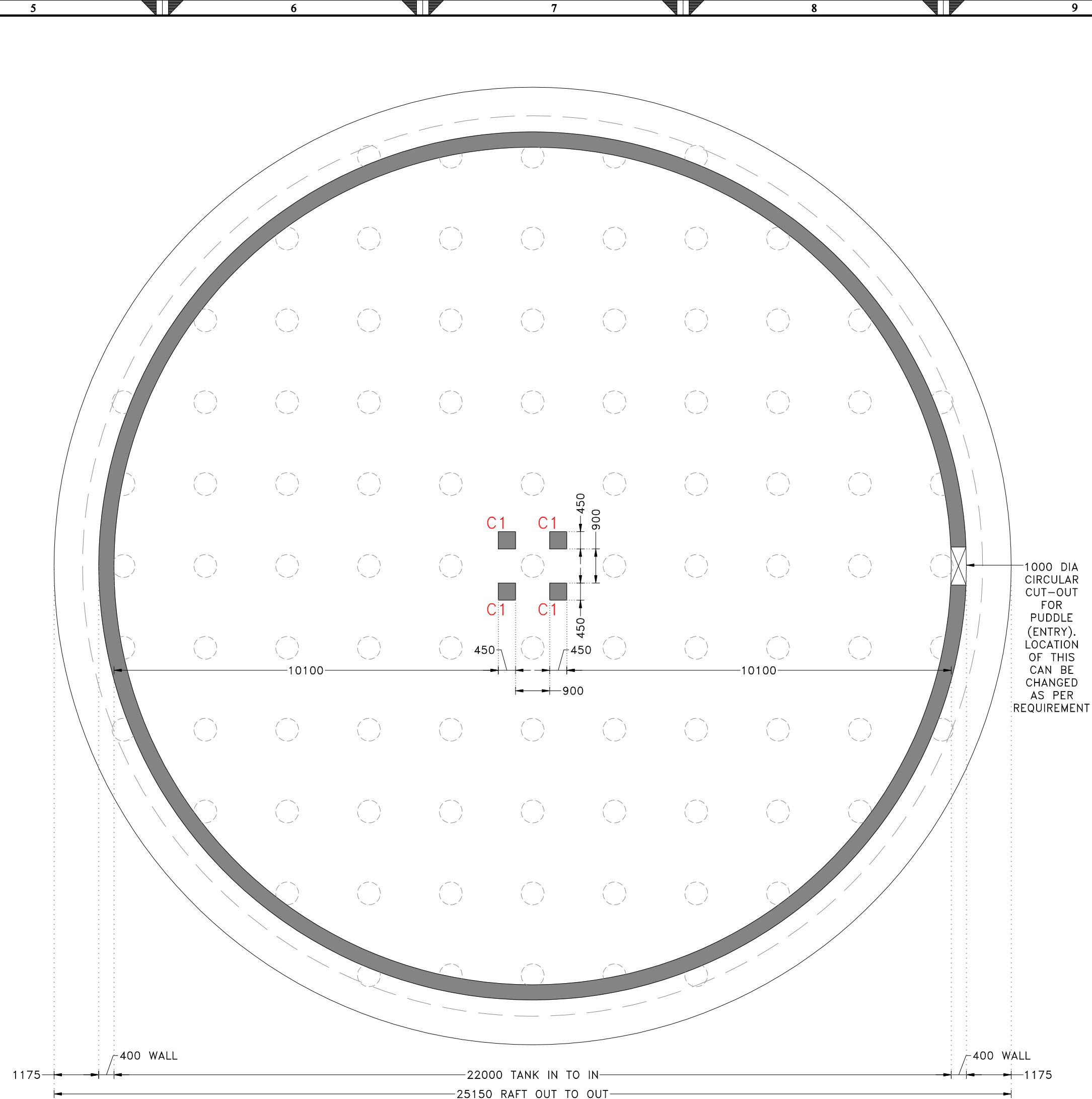
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CHECK:- SWAYAM
APPROVE:- PRASHAM

DATE:- 06-10-2025
SCALE:- VERY

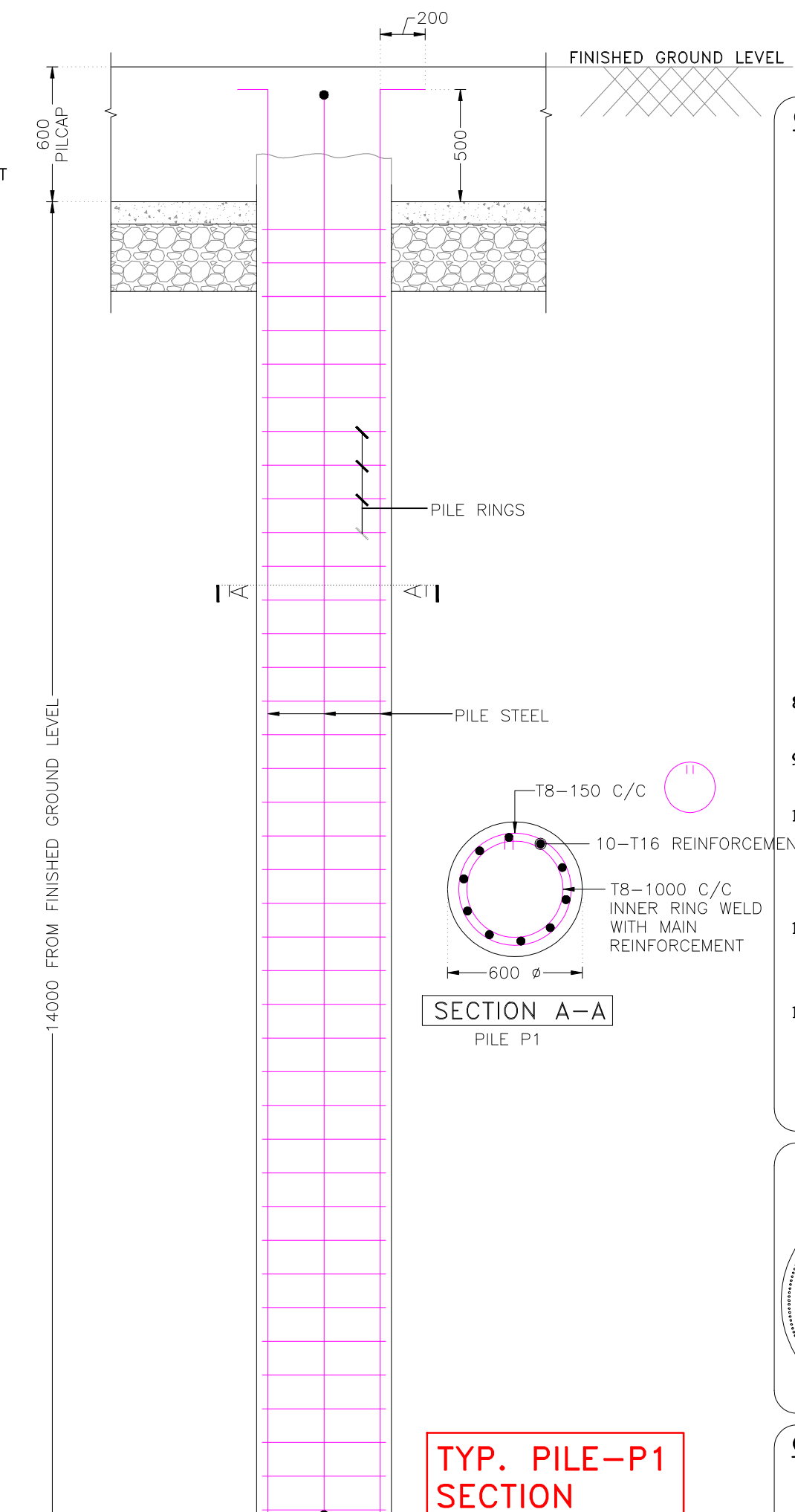
DRAWING TITLE:-
STRUCTURAL LAYOUT & DETAIL OF MIXING TANK

DRAWING NO	REVISION	SHEET	FOR
3.S.101	R0	A1	A

RCC DIGESTER




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1. ALL DIMENSIONS ARE IN mm AND ALL LEVELS ARE IN Meter UNLESS AND OTHERWISE SPECIFIED.
2. ALL RCC WORK HAVE TO BE DONE IN CONTROLLED CONCRETE OF GRADE **M30** WHICH HAS MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = **30 N/mm²**
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4. CONSTRUCTION SHALL BE STRICTLY IN ACCORDANCE WITH IS:456-2000.
5. MINIMUM ANCHORAGE LENGTH SHALL BE 50 X DIA OF BAR.
6. NET S.B.C CONSIDERED FOR FOOTING **15MT/M²** AT THE DEPTH OF **2.0m FROM N.G.L.**
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 - BEAM = 30 MM
 - COLUMN = 40 MM
 - SLAB = 25 MM
8. ALL BUILDING LAYER/ LEVELING COURSE SHALL BE WITH P.C.C M10 (1:3:6).
9. OVER EXCAVATION BEFORE THE FOOTING OF THE BUILDING SHALL BE DONE IN **P.C.C ONLY**.
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11. ALL RELEVANT INSERT PLATE AND ANCHORED BARS ETC. ARE TO BE PLACED IN POSITION , PRIOR TO CONCRETING OF MEMBER AS REQUIRED.
12. F.F.L & F.R.L AS PER MASTER LAYOUT
 - N.G.L = NATURAL GRAOUND
 - F.G.L = FINISHED GROUND LEVEL
 - F.F.L = FINISHED FLOOR LEVEL

CONSULTANTS



ADDRESS:

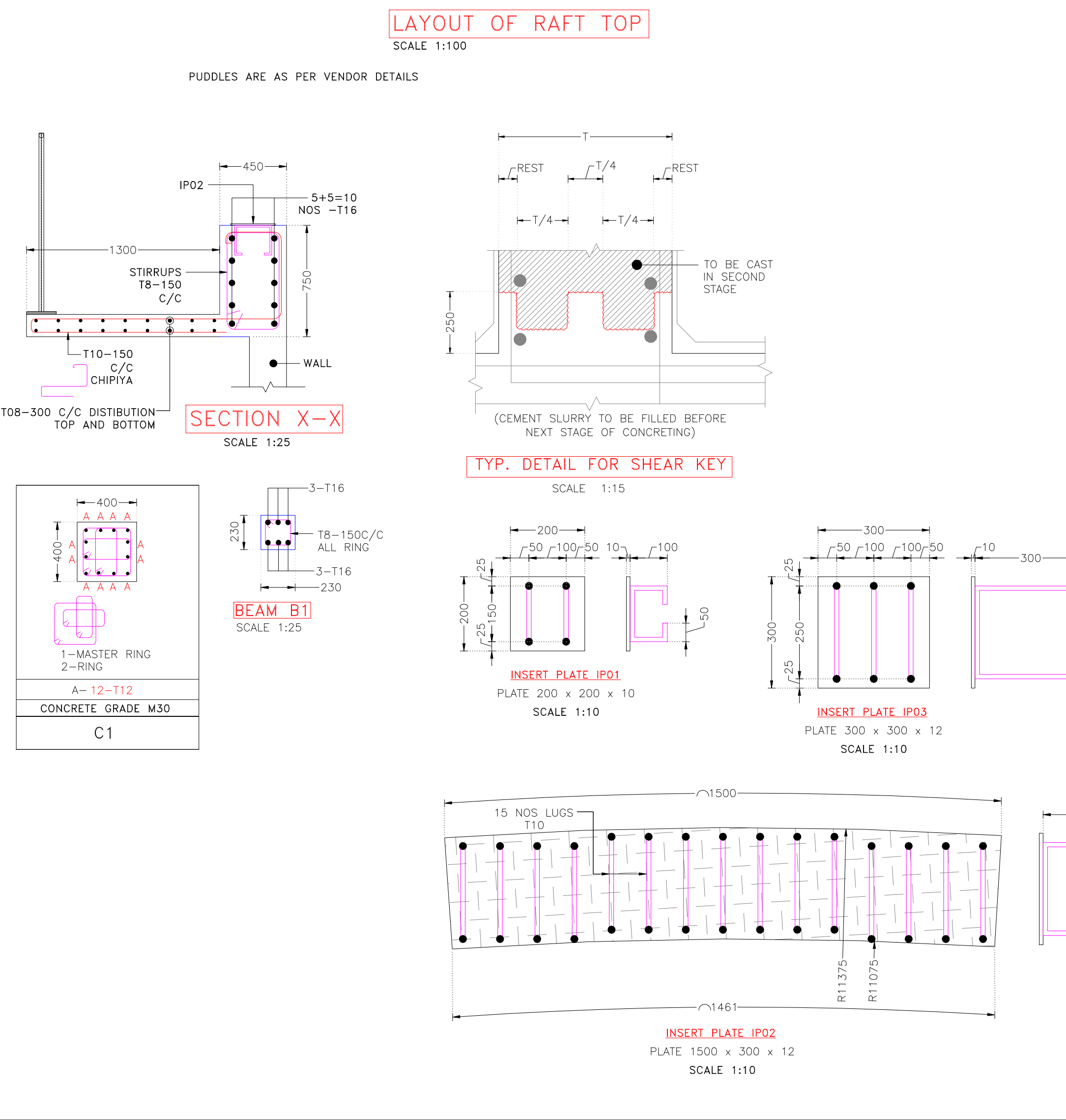
GUJARAT ENERGY RESEARCH & MANAGEMENT INSTITUTE
1st FLOOR, ENERGY BUILDING PDPU
CAMPUS, RAISAN VILLAGE,
GANDHINAGAR,
GUJARAT-382 007

CONTACT:

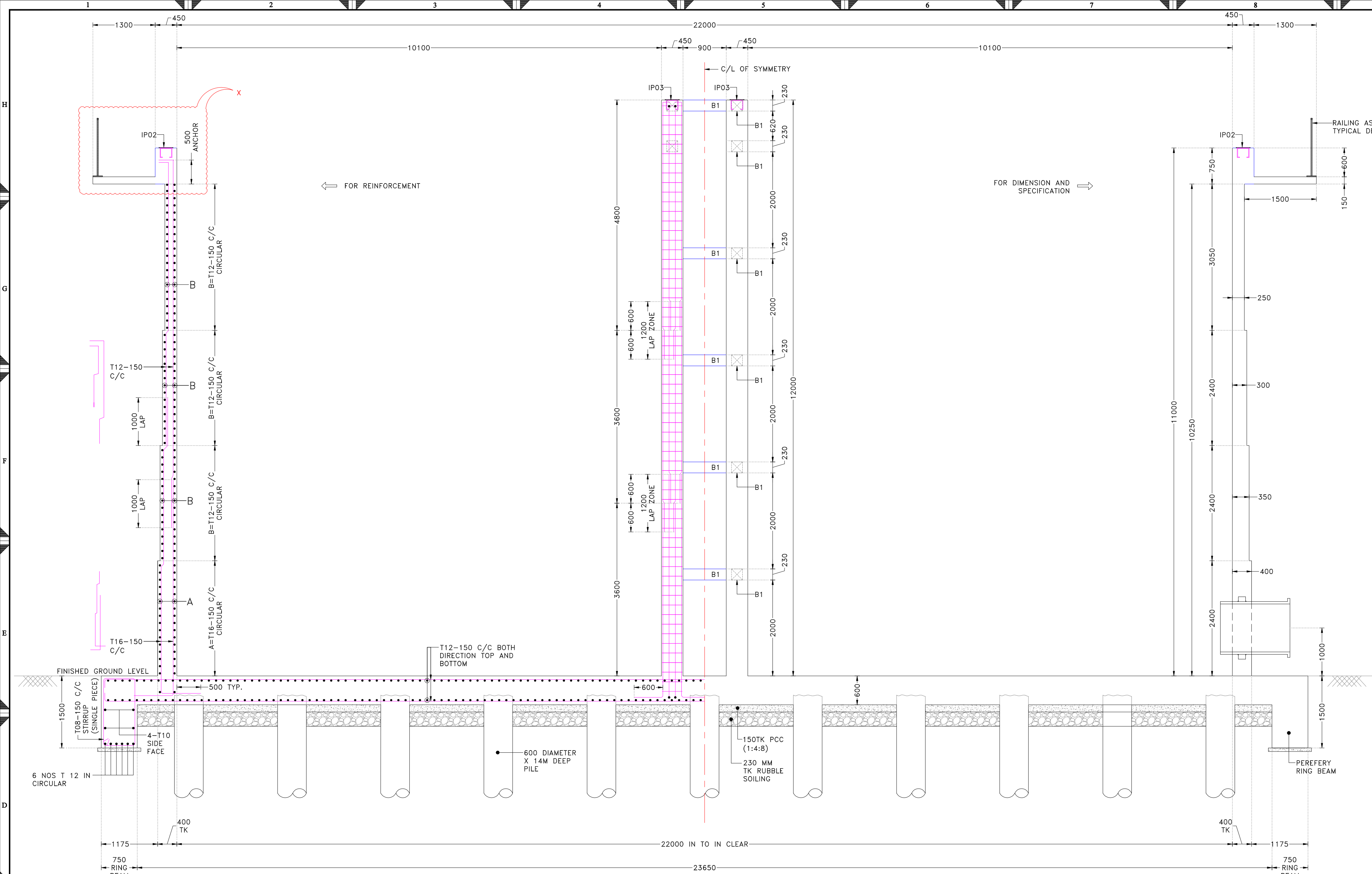
+91-9601986496,
pvorastructure@gmail.com
www.pvora.in

<u>RAWN:-</u>	AYAN	<u>DATE OF R0:-</u> 26-09-2025
<u>CHECK:-</u>	ATIF	
<u>APPROVE:-</u>	PJV	<u>SCALE:-</u> VERY

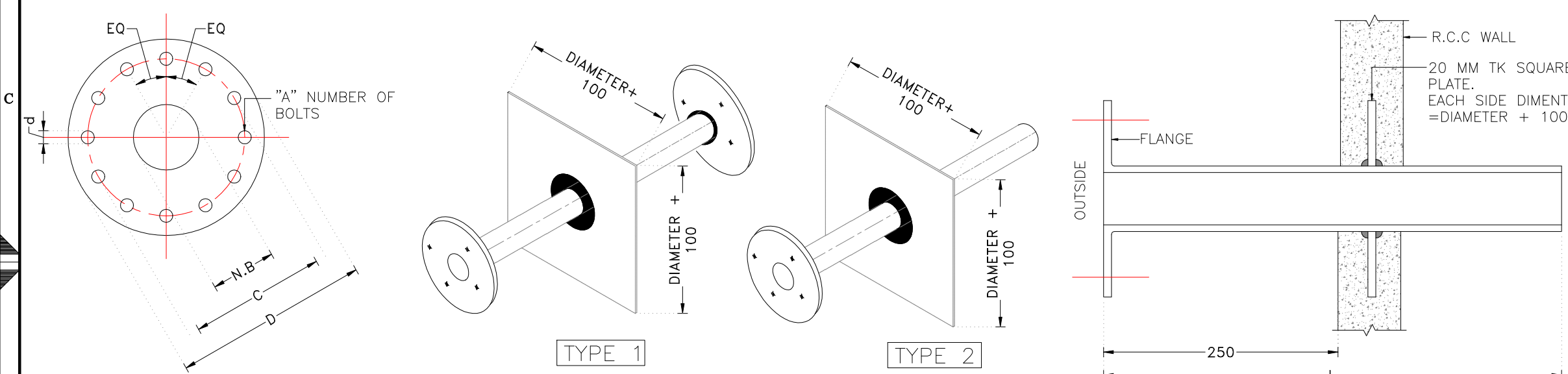
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6.S.101	R0	A1	T TENDER



TYP. PILE-P1
SECTION



SECTION:A-A
SCALE 1:50



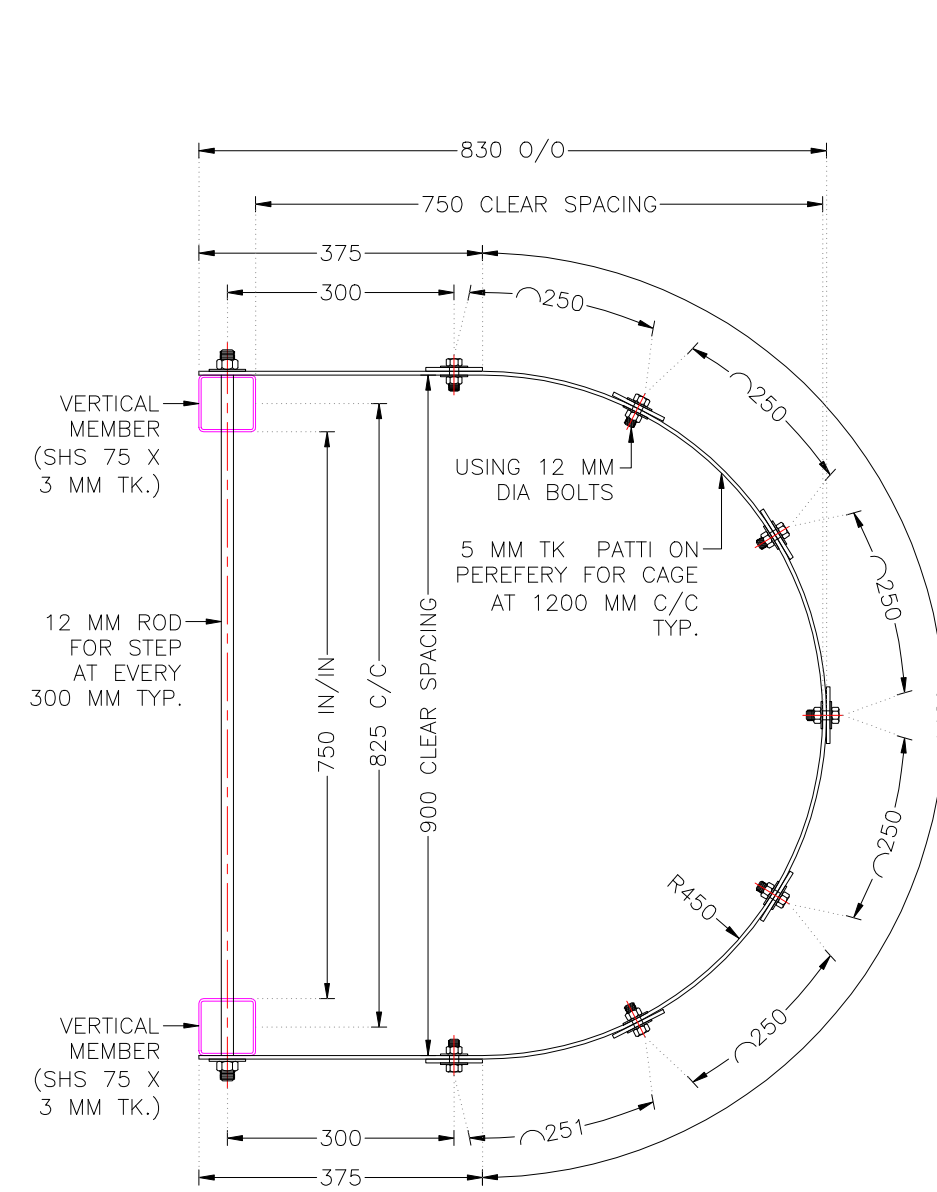
FLANGE

SCHEDULE OF PUDDLE

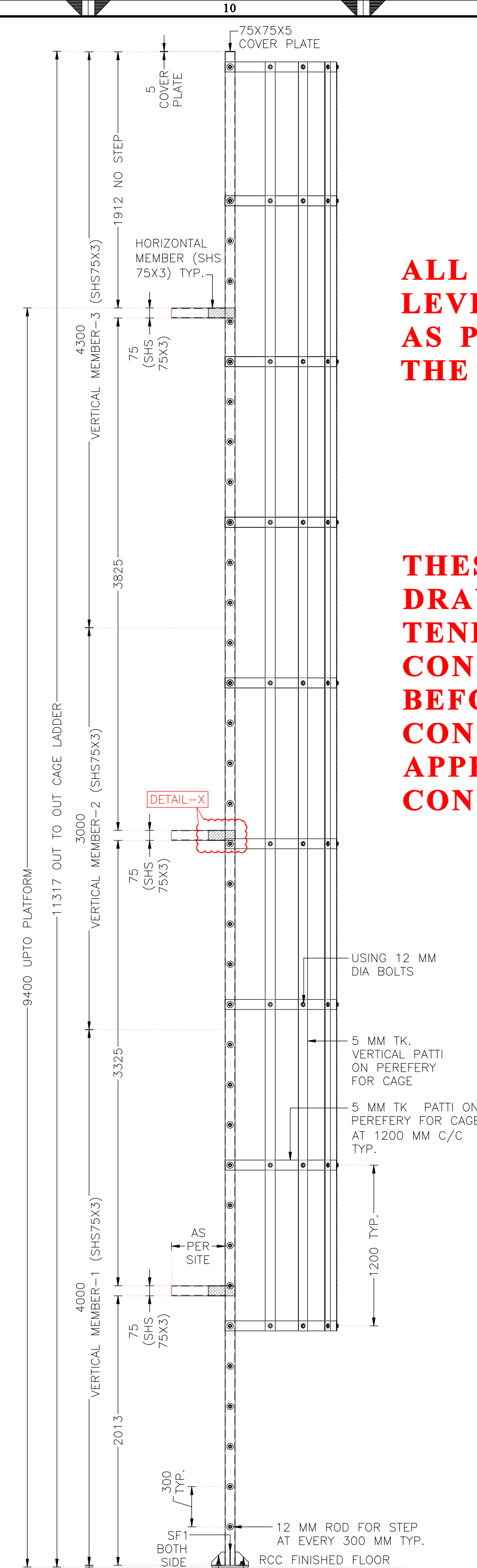
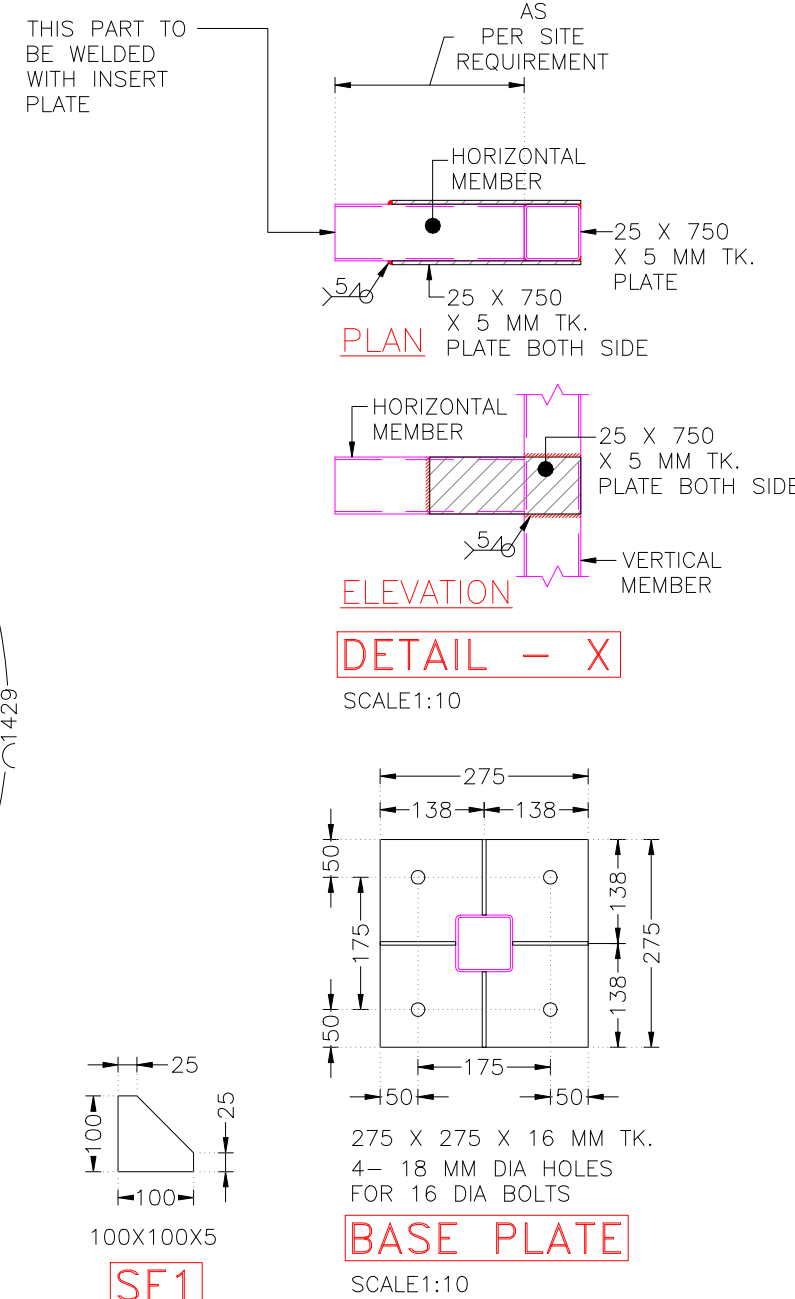
SCALE 1:75
ALL PUDDLE SHALL BE AS PER IS 1536:1989

NOTE: ALL PUDDLE SHALL BE G.I COATED
WITH MINIMUM ZINK COATING OF 120 GSM

N	NOMINAL DIA (N.B)	FLANGE DIMENTIONS			HOLES			PIPE DIMENTIONS (CLASS B)		TYPE	MATERIAL	LEVEL AT BOTTOM	QUATY (NOS)	TANK
		C	D	THICKNESS	A NUMBER OF HOLES	d DIAMETER OF HOLES	DIAMETER OF BOLTS	MASS FOR 1 M BARREL	"L" LENGTH OF BARREL					
N-1	1000	1160	1230	50	28	37	33	619	1000	TYPE-2	HOT DEEP G.I WITH MINIMUM 200 GSM COATING	AS PER SECTION	1	SUMP



TYPICAL PLAN FOR
CAGE LEDDER
SCALE 1:10



TYPICAL DETAILS
OF CAGE LADDER
SCALE 1:30

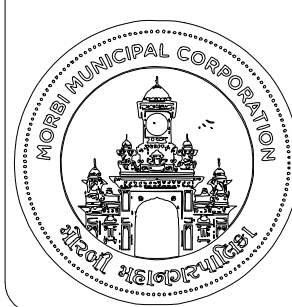
ALL F.R.L (FINISHED ROAD
LEVEL) TO BE CONSIDERED
AS PER SCHEDULE GIVEN IN
THE MASTER LAYOUT

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DRAWINGS ONLY. ONLY FOR
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GENERAL NOTES:-

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CLIENT



ADDRESS:

MORBI MUNICIPAL CORPORATION
15, Vasant Plot Main Road,
Sardar Nagar, Morbi-363641

CONSULTANTS



ADDRESS:

GUJARAT ENERGY RESEARCH & MANAGEMENT INSTITUTE
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GANDHINAGAR,
GUJARAT-382 007

CONTACT:

+91-9601986496,
pvorastructure@gmail.com
www.pvora.in

PROJECT NUMBER:-

4925

BUILDING NAME:-

DIGESTER TANK

PROJECT NAME:-

MORBI BIO CNG PLANT

DRAWN:-

AYAN

CHECK:-

ATIF

APPROVE:-

PIV

DATE OF R0:-

26-09-2025

SCALE:-

VERY

DRAWING TITLE:-

REACTOR TANK SUB & SUPER STRUCTURE
STRUCTURAL DETAILS

DRAWING NO

6.S.102

REVISION

R0

SHEET

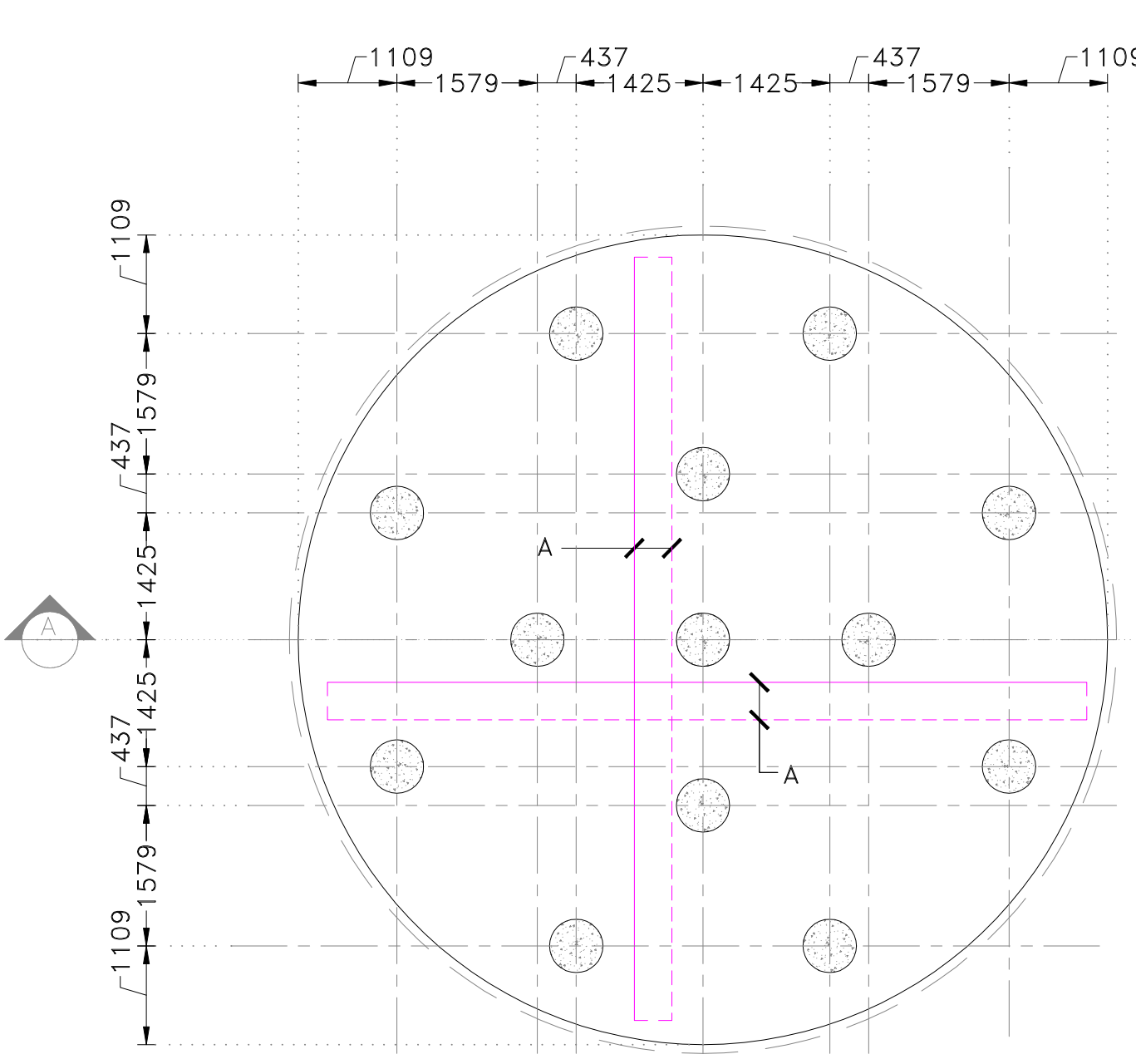
A1

FOR

T

HYDROLYSIS TANK

DIGESTATE TANK

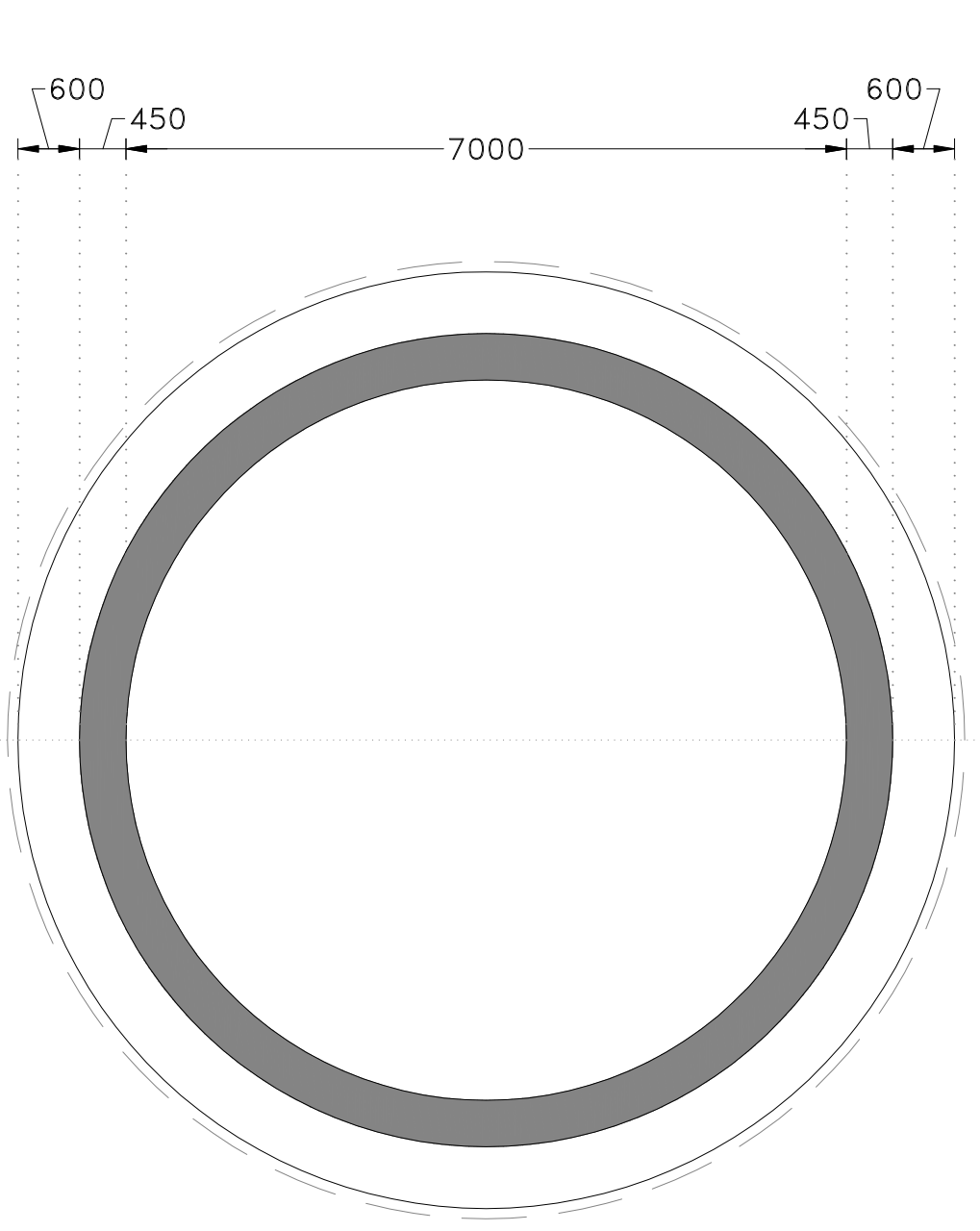


LAYOUT OF PILE AND RAFT

SCALE 1:100

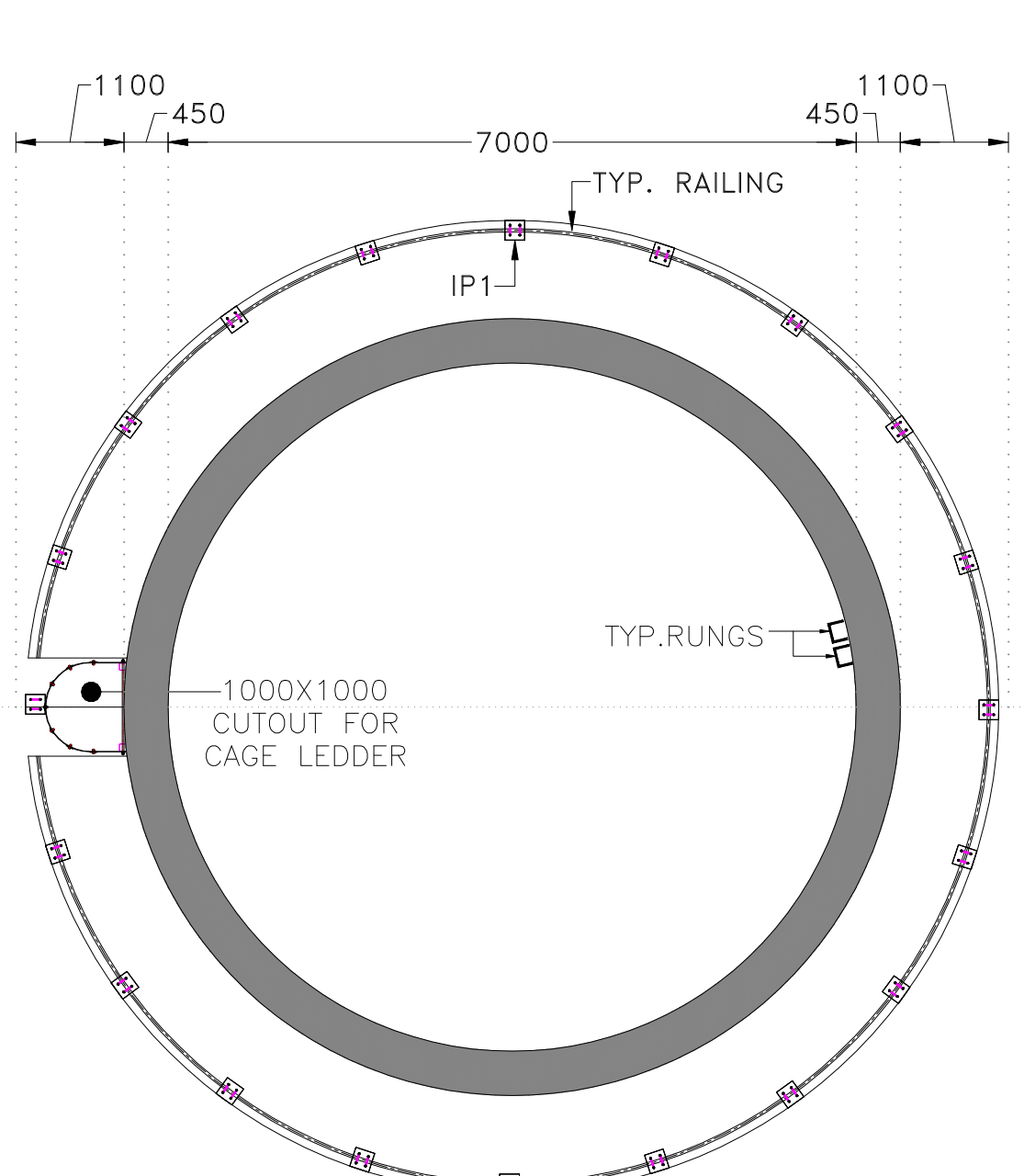
A-T12@150 C/C ON TOP AND BOTTOM

600 DIAMETER X 5.0 M DEEP PILE X 13 NOS OF PILE



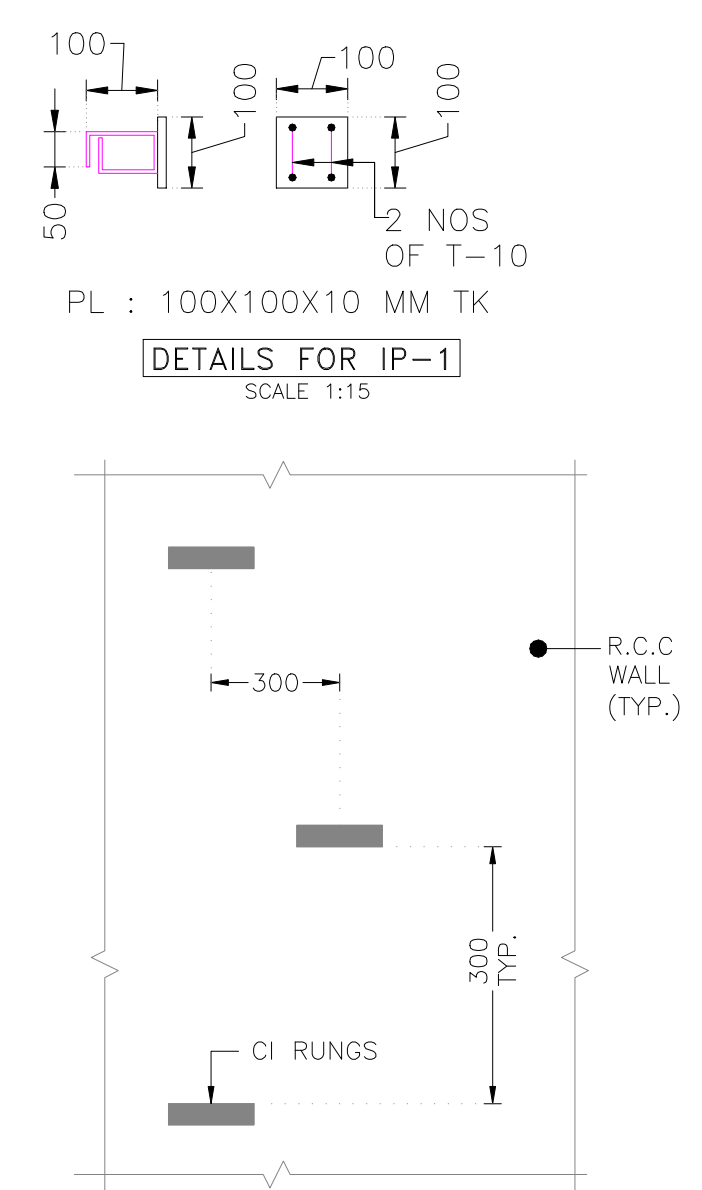
LAYOUT OF RAFT TOP

SCALE 1:100



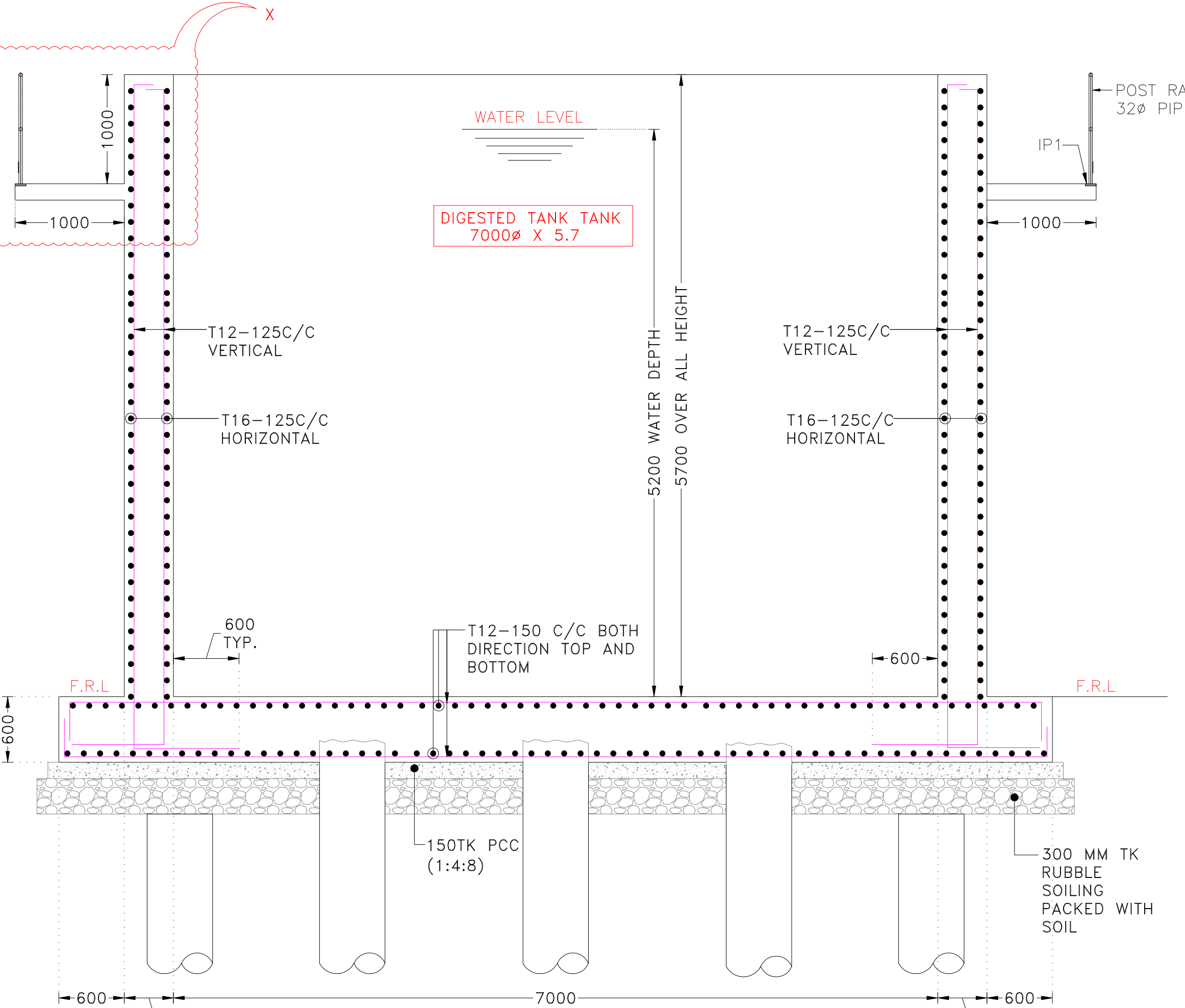
LAYOUT OF TOP PLATFORM

SCALE 1:100



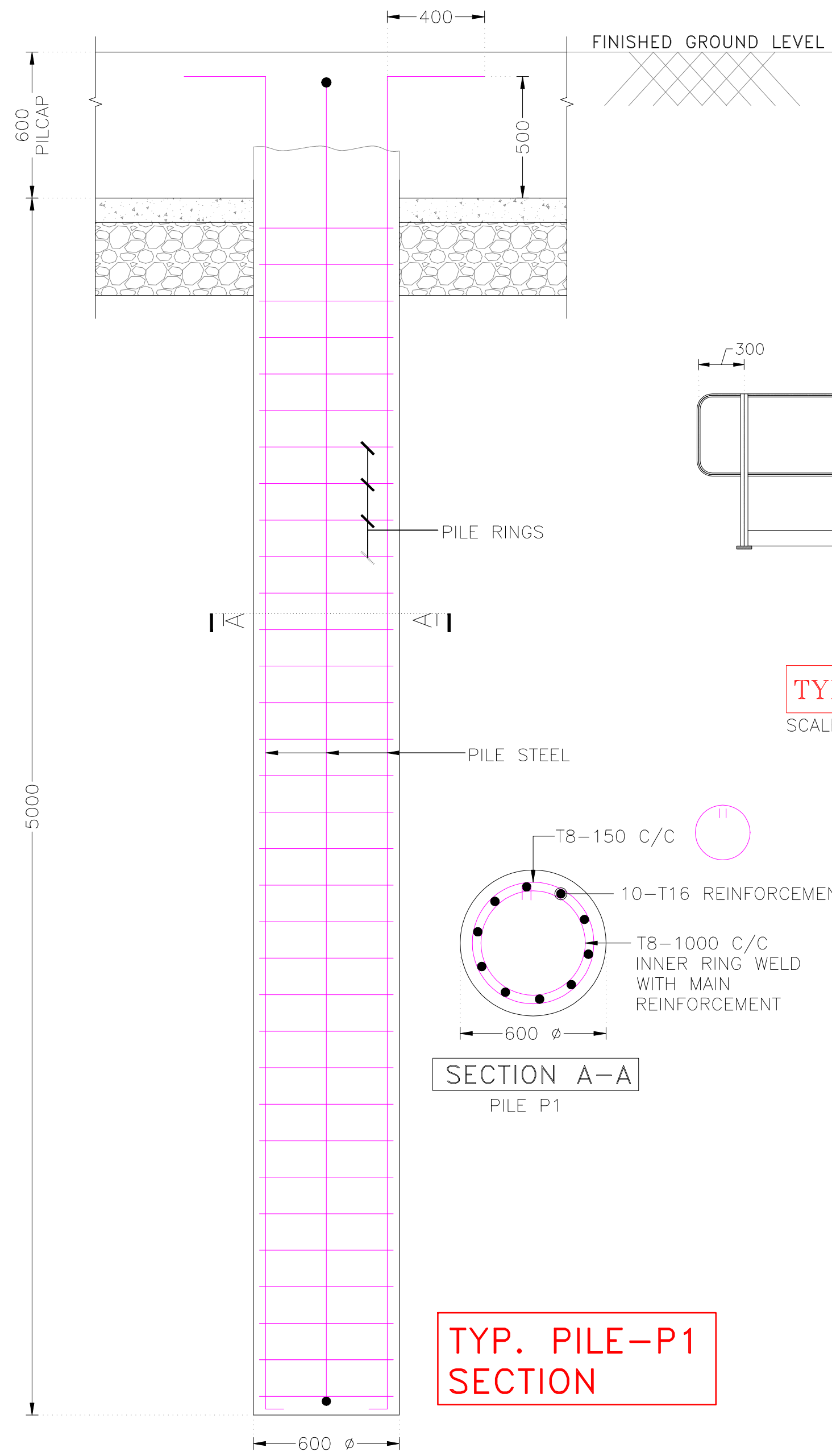
TYPICAL DETAILS OF RUNGS

SCALE 1:20

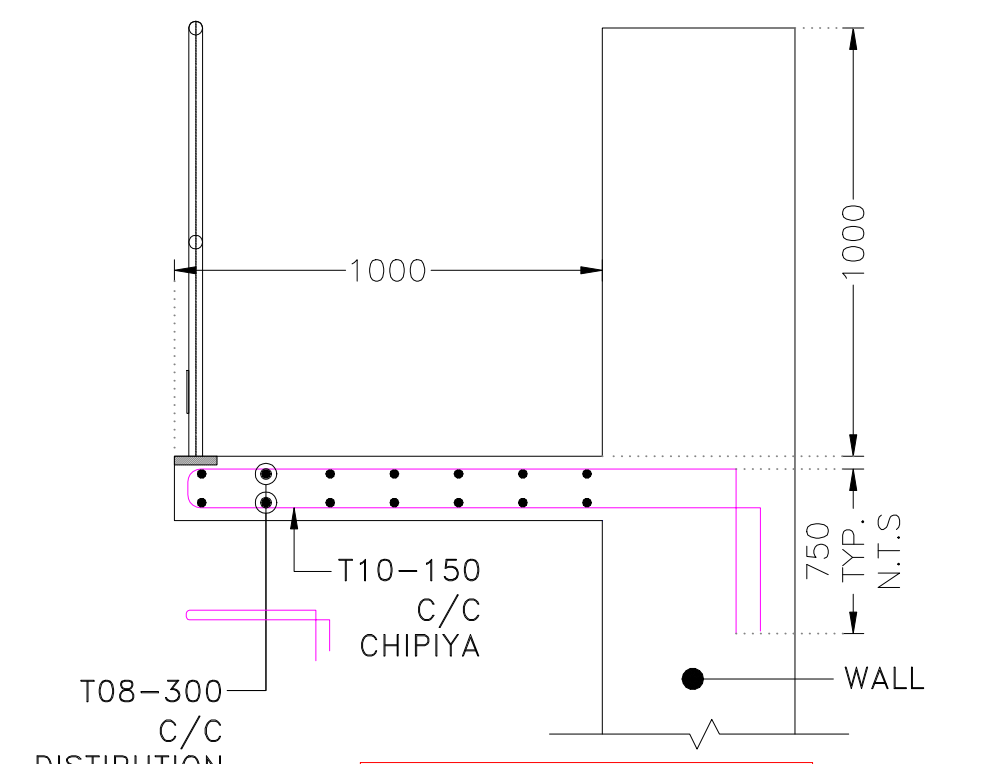


SECTION:A-A

SCALE 1:50

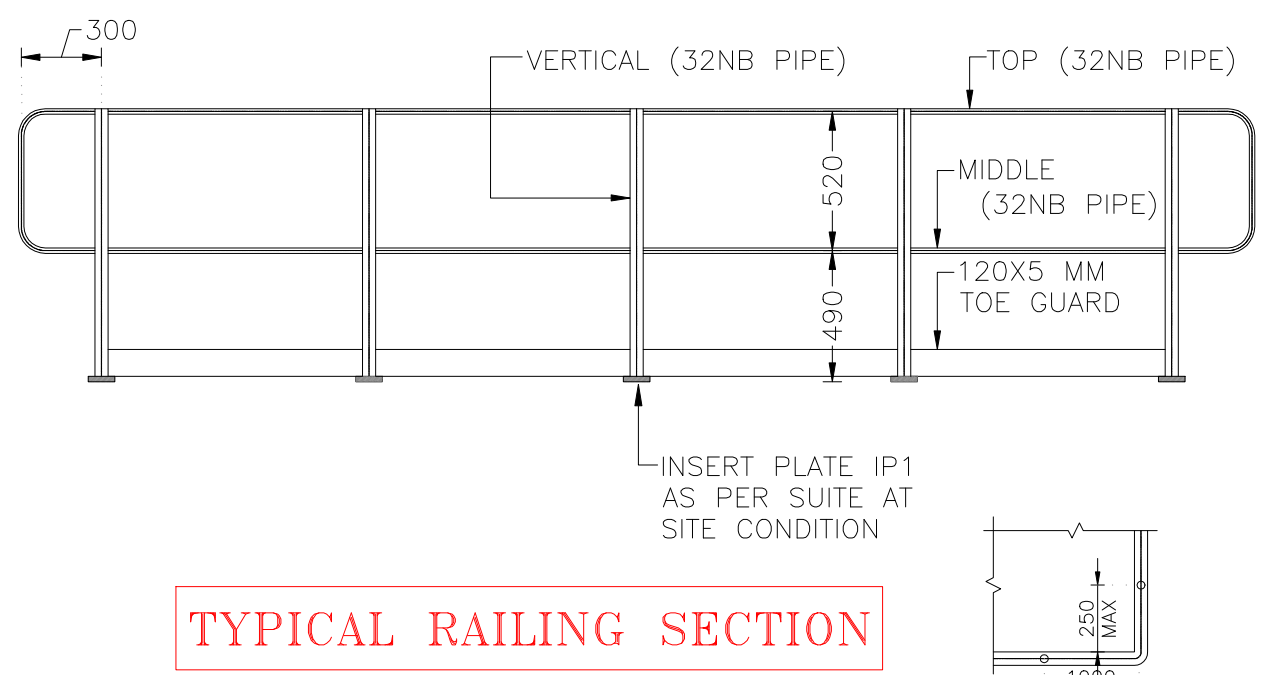


TYP. PILE-P1 SECTION



SECTION X-X

SCALE 1:25



TYPICAL RAILING SECTION

SCALE 1:40

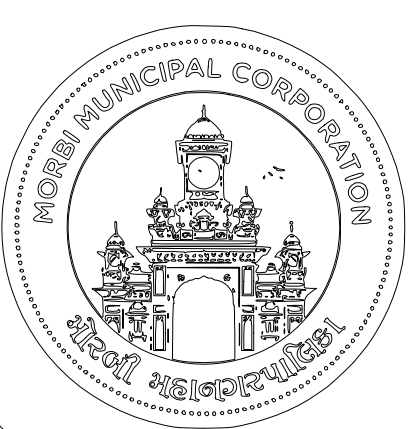
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R1	00-00-00		PJV
REVI.	DATE	PURPOSE	BY
<u>REVISION HISTORY</u>			

GENERAL NOTES:-

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 - COLUMN = 40 MM
 - SLAB = 25 MM
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- OVER EXCAVATION BELOW THE FOOTING OF THE BUILDING SHALL BE DONE IN **P.C.C ONLY**.
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- ALL RELEVANT INSERT PLATE AND ANCHORED BARS ETC. ARE TO BE PLACED IN POSITION , PRIOR TO CONCRETING OF MEMBER AS REQUIRED.
- F.F.L & F.R.L AS PER MASTER LAYOUT
 - N.G.L = NATURAL GROUND LEVEL
 - F.G.L = FINISHED GROUND LEVEL
 - F.F.L = FINISHED FLOOR LEVEL

CLIENT



ADDRESS:
MORBI MUNICIPAL CORPORATION
15, Vasant Plot Main Road,
Sardar Nagar, Morbi-363641

CONSULTANTS



ADDRESS:
GUJARAT ENERGY RESEARCH & MANAGEMENT INSTITUTE
1st FLOOR, ENERGY BUILDING PDPU CAMPUS, RAISAN VILLAGE, GANDHINAGAR, GUJARAT-382 007
CONTACT:
+91-9601986496,
pvorastructure@gmail.com
www.pvora.in

PROJECT NUMBER:- 4925

BUILDING NAME:- DIGESTED TANK

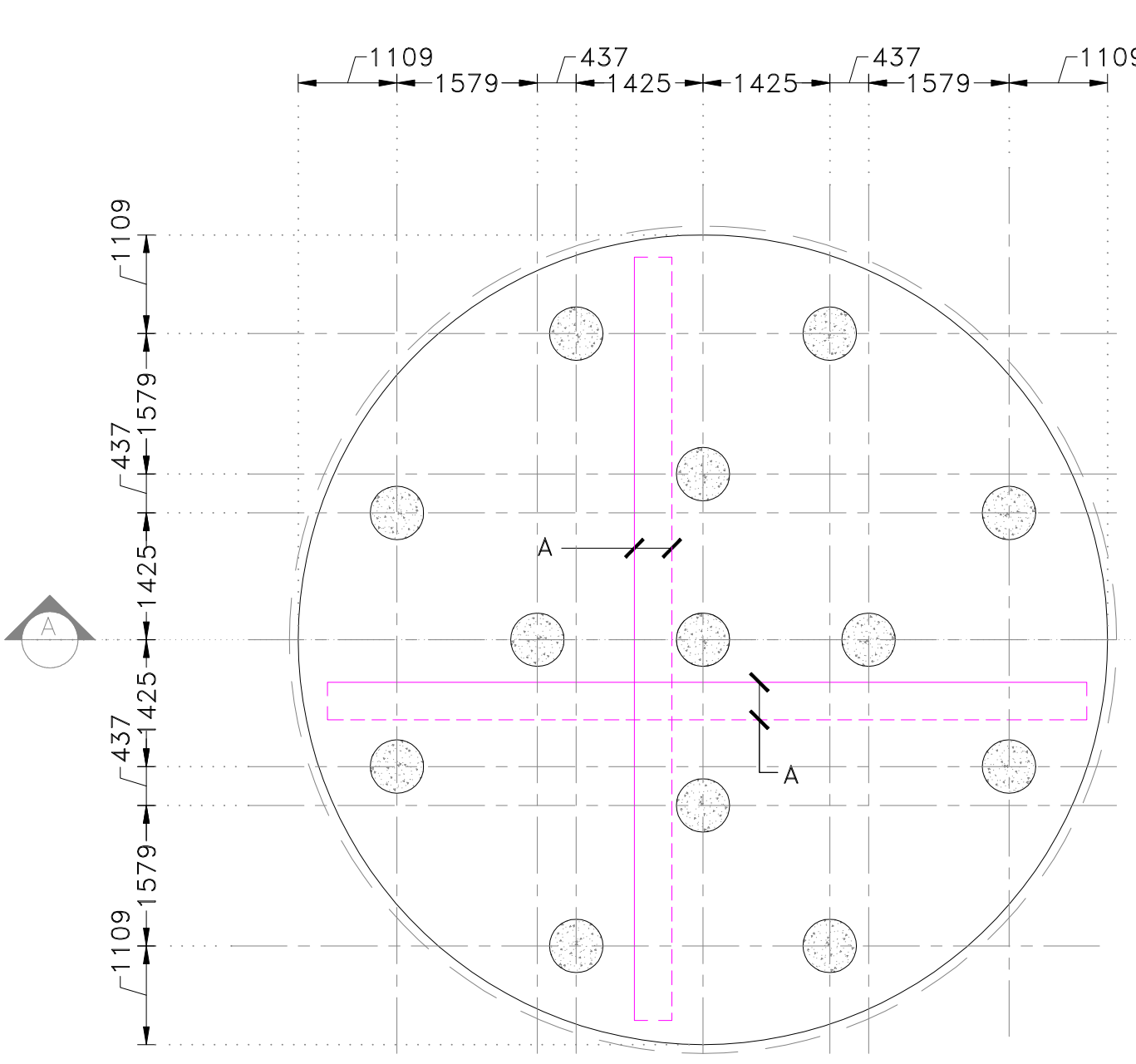
PROJECT NAME:- MORBI BIO CNG PLANT

DRAWN:-	DHAVAL	DATE OF R0:-	16-10-2025
CHECK:-	SWAYAM		
APPROVE:-	PJV	SCALE:-	VERY

DRAWING TITLE:-
DIGESTED TANK SUB & SUPER STRUCTURE
STRUCTURAL DETAILS. TYPICAL DRAWING FOR REACTOR

DRAWING NO	REVISION	SHEET	FOR
7.S.101	R0	A1	T TENDER

SLS TANK

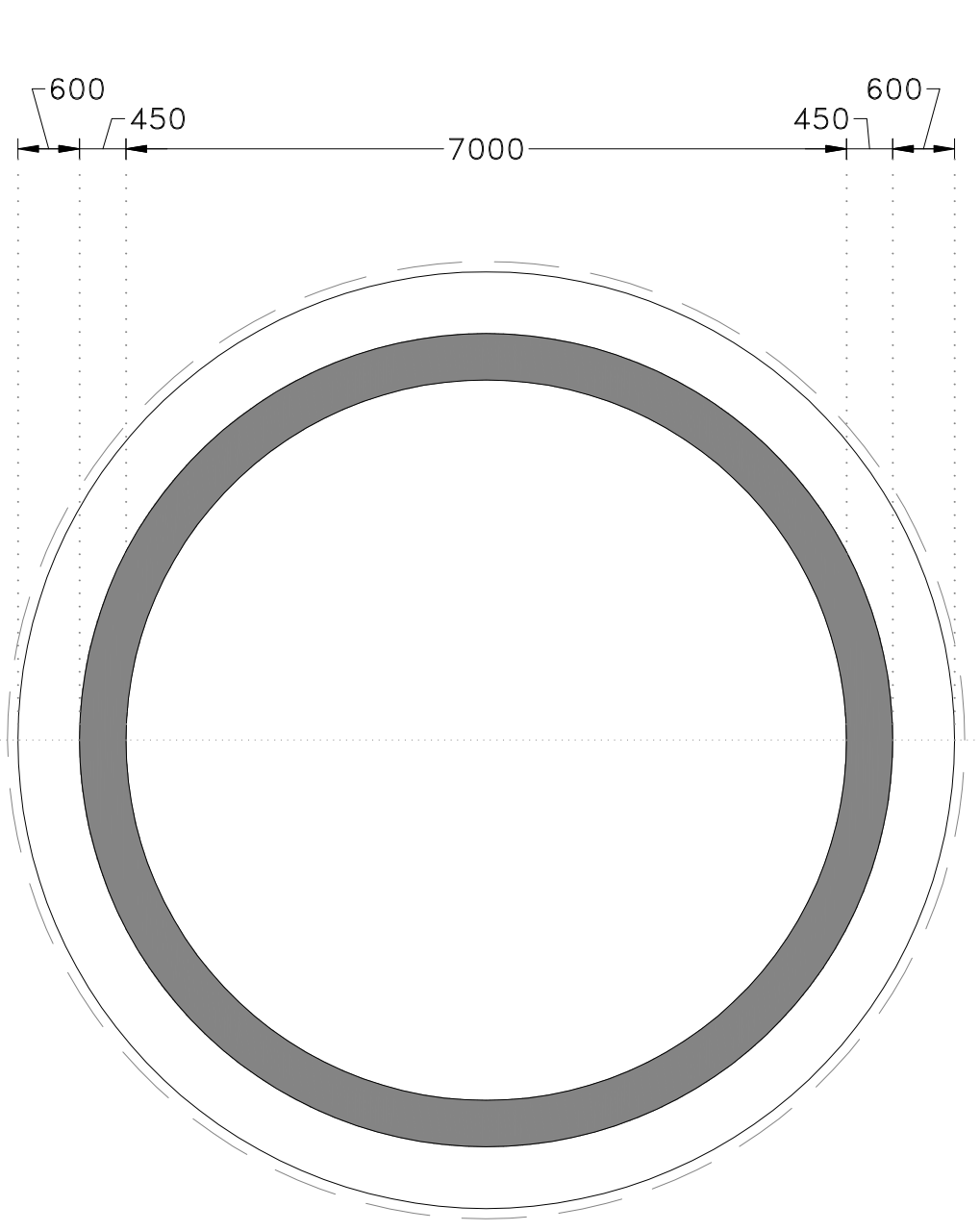


LAYOUT OF PILE AND RAFT

SCALE 1:100

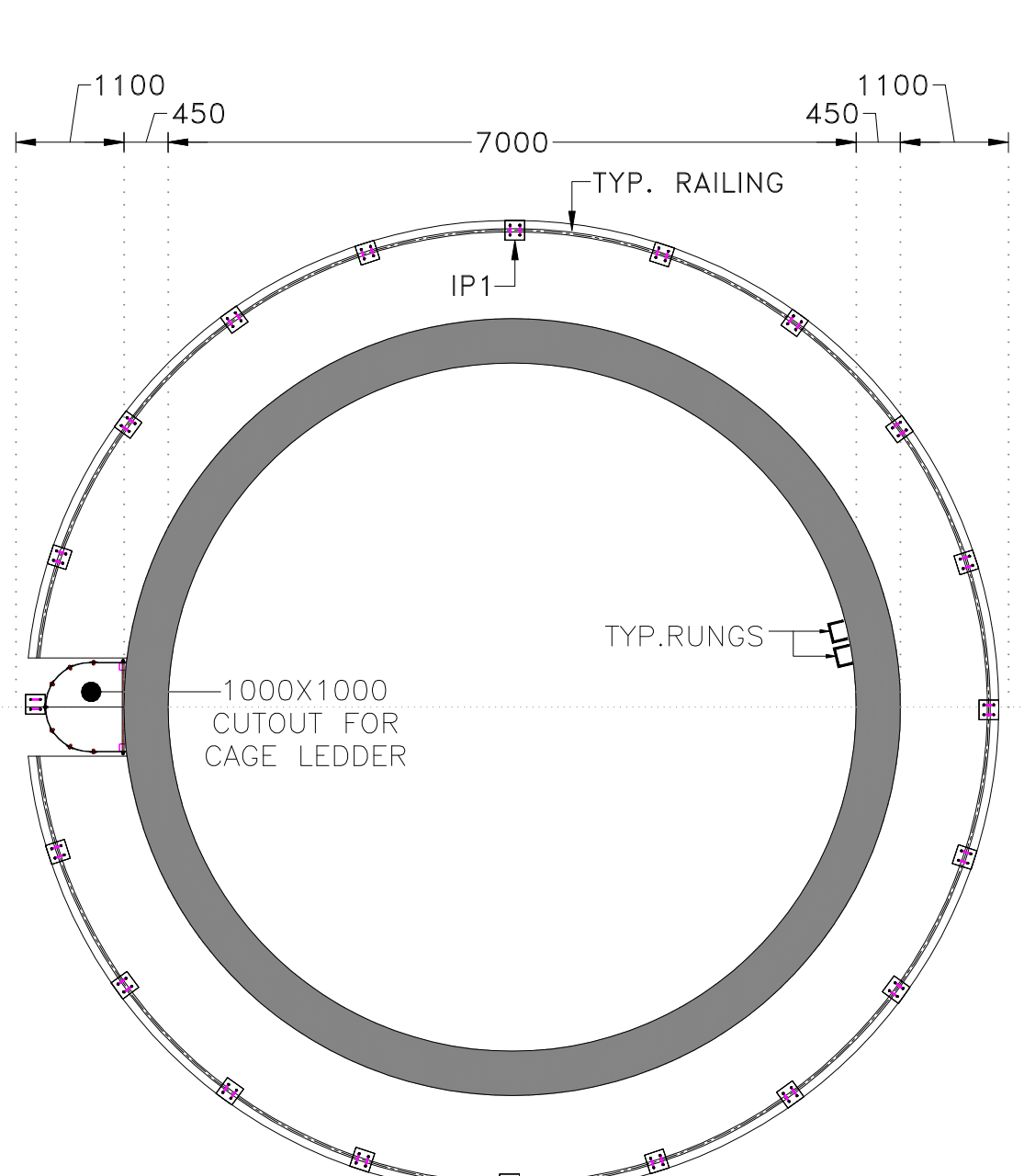
A-T12@150 C/C ON TOP AND BOTTOM

600 DIAMETER X 5.0 M DEEP PILE X 13 NOS OF PILE



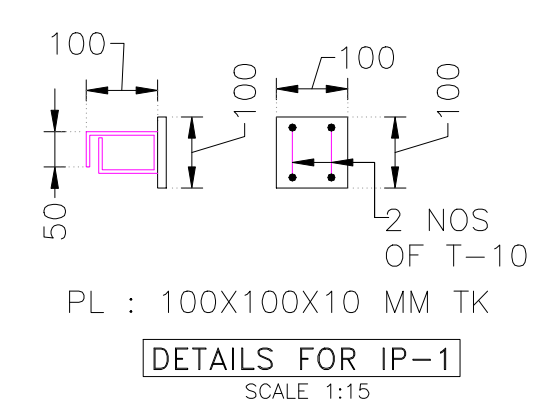
LAYOUT OF RAFT TOP

SCALE 1:100



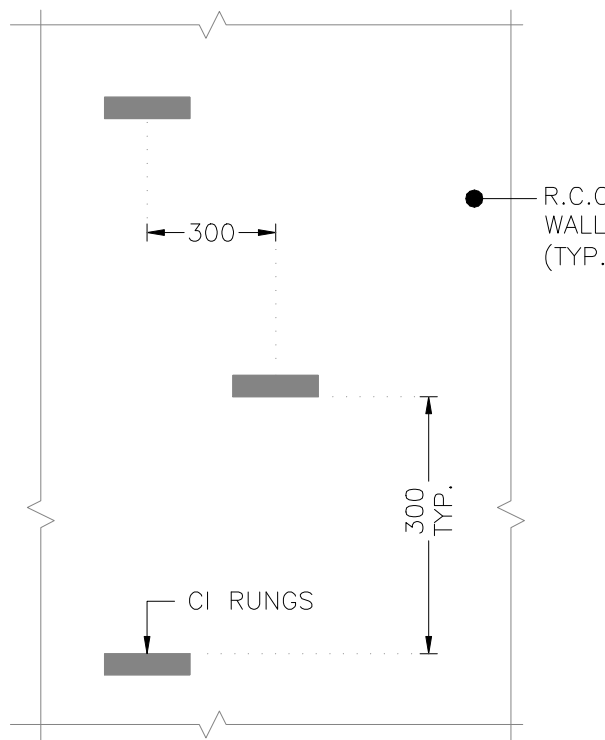
LAYOUT OF TOP PLATFORM

SCALE 1:100



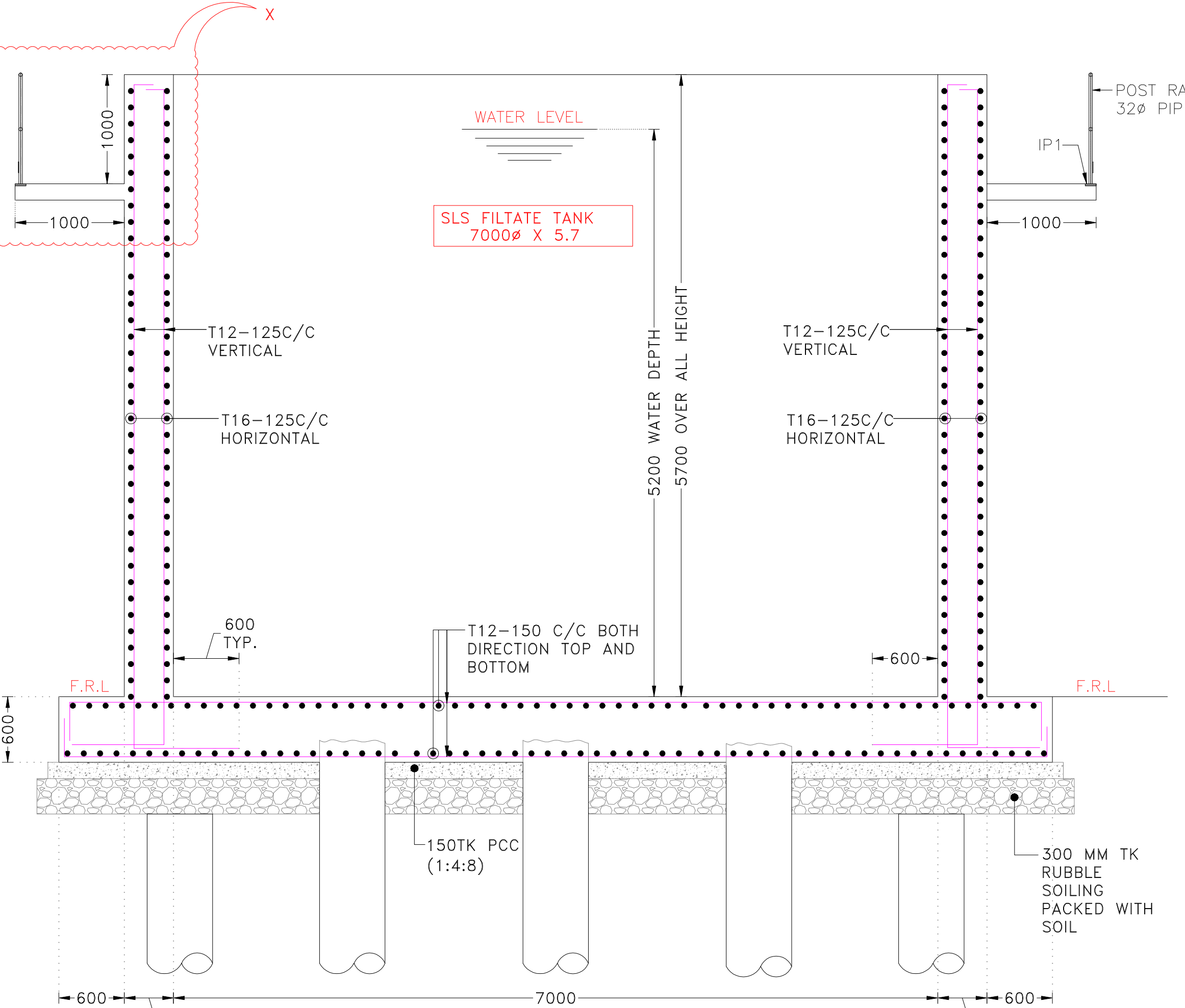
DETAILS FOR IP-1

SCALE 1:15



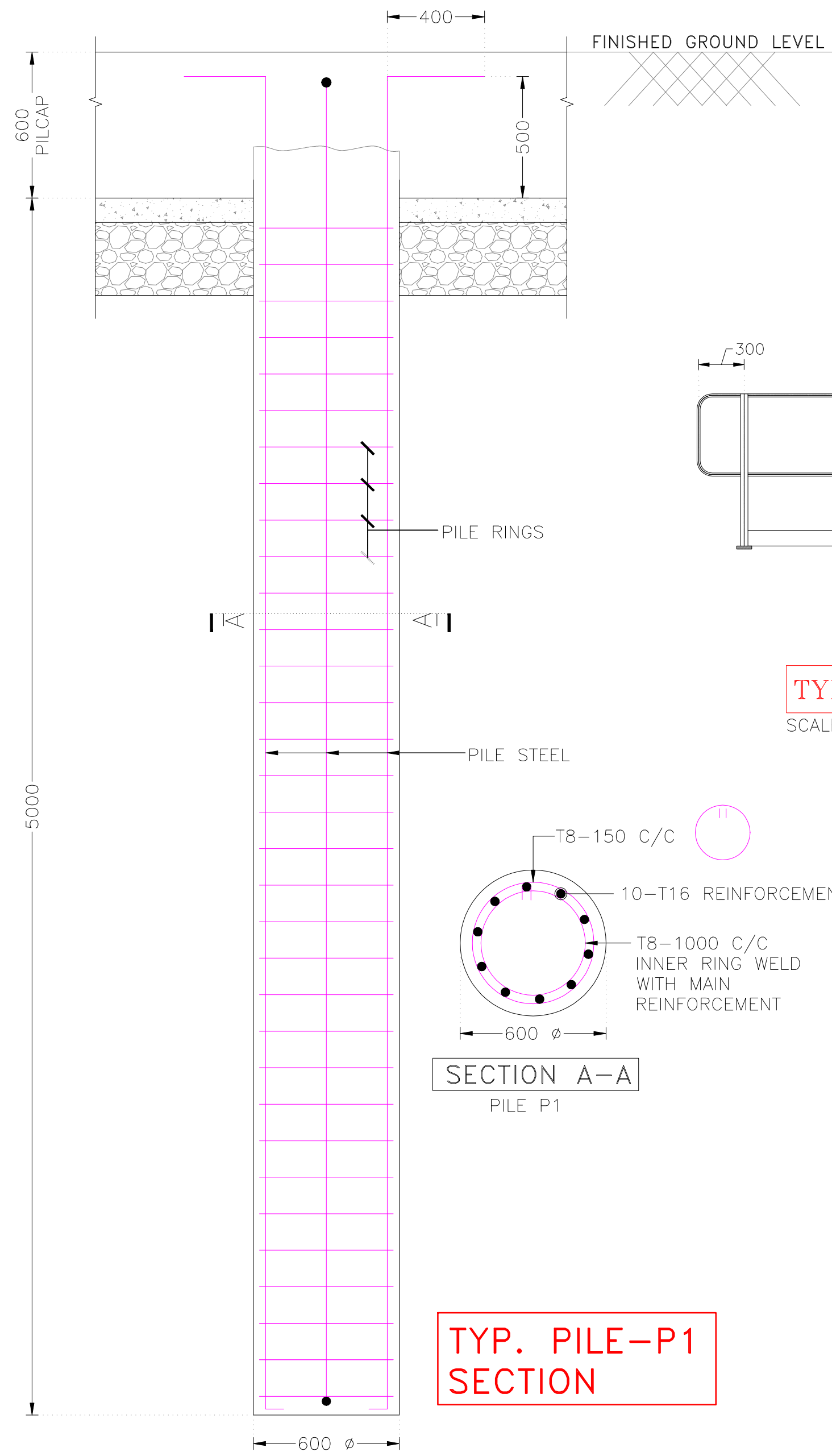
TYPICAL DETAILS OF RUNGS

SCALE 1:20

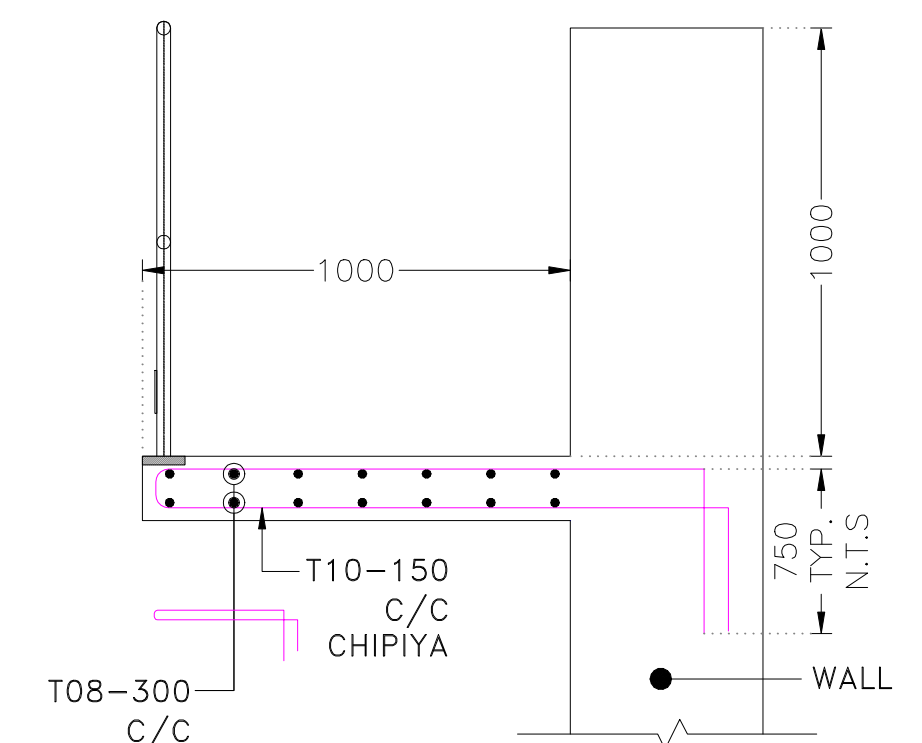


SECTION:A-A

SCALE 1:50

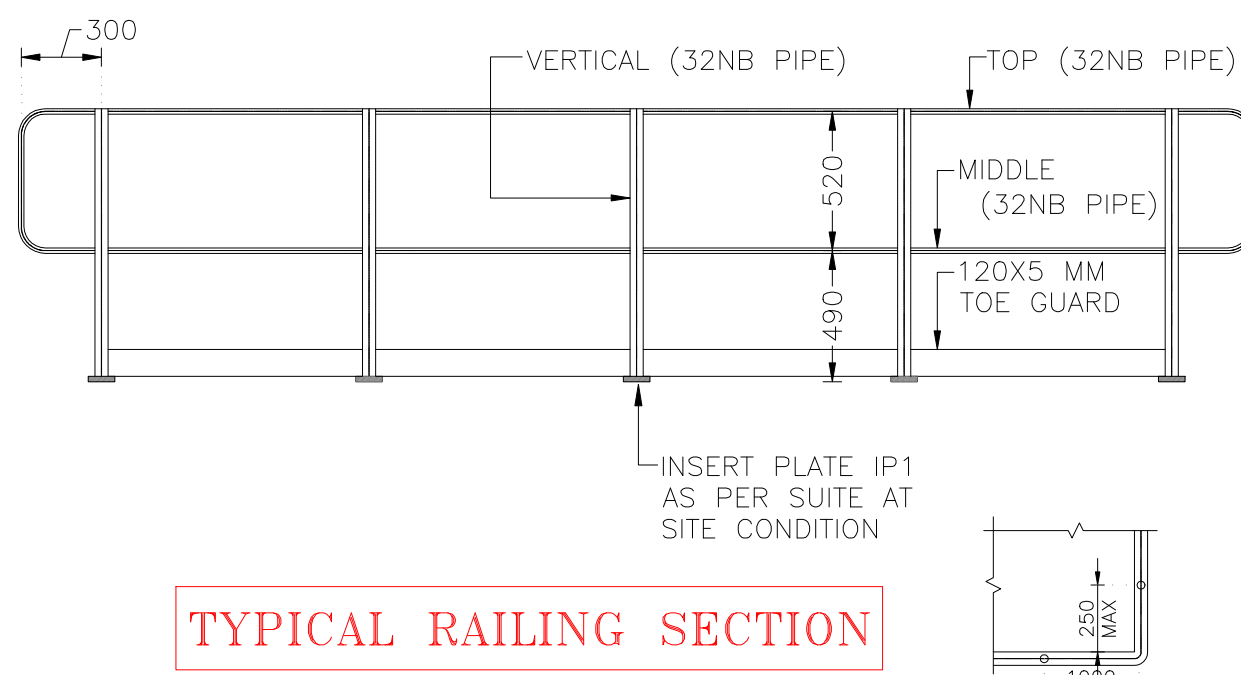


TYP. PILE-P1 SECTION



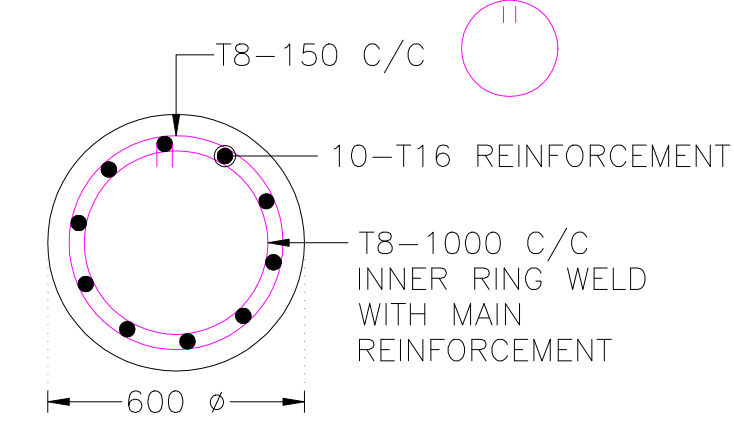
SECTION X-X

SCALE 1:25



TYPICAL RAILING SECTION

SCALE 1:40



SECTION A-A PILE P1

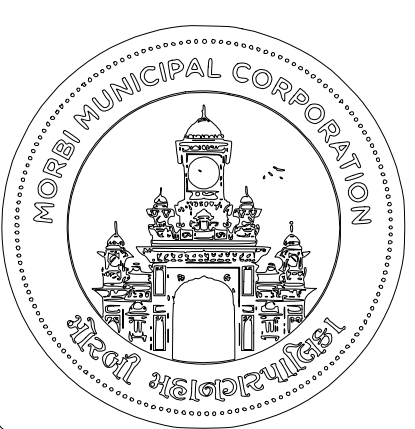
THESE ALL ARE TENDER DRAWINGS ONLY. ONLY FOR TENDER PURPOSE. NOT FOR CONSTRUCTION PURPOSE. BEFORE STARTING THE CONSTRUCTION TAKE AN APPROVAL FROM THE CONCERN AUTHORITY

REVI.	DATE	PURPOSE	BY
R1	00-00-00		PJV
REVISION HISTORY			

GENERAL NOTES:-

- ALL DIMENSIONS ARE IN m.m AND ALL LEVELS ARE IN Meter UNLESS AND OTHERWISE SPECIFIED.
- ALL RCC WORK HAVE TO BE DONE IN CONTROLLED CONCRETE OF GRADE **M30** WHICH HAS MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = **30** N / mm²
- ALL REINFORCEMENT MARKED WITH "T" DENOTES HIGH STRENGTH DEFORMED BAR OF GRADE **Fe500** CONFINING TO IS:1786, WITH MINIMUM YIELD STRENGTH = 500 N/mm²
- CONSTRUCTION SHALL BE STRICTLY IN ACCORDANCE WITH IS:456-2000.
- MINIMUM ANCHORAGE LENGTH SHALL BE 50 X DIA OF BAR.
- NET S.B.C CONSIDERED FOR FOOTING **15MT/M²** AT THE DEPTH OF **2.0m** FROM N.G.L.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE FOLLOWING.
 - FOOTING = 50 MM
 - BEAM = 30 MM
 - COLUMN = 40 MM
 - SLAB = 25 MM
- ALL BUILDING LAYER/ LEVELING COURSE SHALL BE WITH P.C.C **M10 (1:3:6)**.
- OVER EXCAVATION BELOW THE FOOTING OF THE BUILDING SHALL BE DONE IN **P.C.C ONLY**.
- IF ANY POCKETS/LOOSE SOIL STRATA ENCOUNTER DURING EXCAVATION, SAME SHALL BE FILLER WITH P.C.C AND BROUGHT UP TO THE FOULING LEVEL OF STRUCTURAL MEMBER A REQUIRED.
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CONTACT:
+91-9601986496,
pvorastructure@gmail.com
www.pvora.in

PROJECT NUMBER:- 4925

BUILDING NAME:- SLS FILTRATE TANK

PROJECT NAME:- MORBI BIO CNG PLANT

DRAWN:- DHAVAL

CHECK:- SWAYAM

APPROVE:- PJV

DATE OF R0:- 16-10-2025

SCALE:- VERY

DRAWING TITLE:-

SLS FILTATE TANK SUB & SUPER STRUCTURE
STRUCTURAL DETAILS. TYPICAL DRAWING FOR REACTOR

DRAWING NO	REVISION	SHEET	FOR
9.S.101	R0	A1	T TENDER

WEIGHBRIDGE

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