

GOVERNMENT OF RAJASTHAN
Rajasthan Urban Sector Development Program

BIDDING DOCUMENT

for the

**Construction, Commissioning and Operation of Fecal Sludge Treatment Plant
of capacity 20 m³/day at Phulera**

Part 1– Technical Bid – Volume 2 - Drawing

Issued on:_____, 2017

Invitation for Bids No.: _____

Package No.: _____

Employer: Local Self Government Department (LSGD), Government of Rajasthan

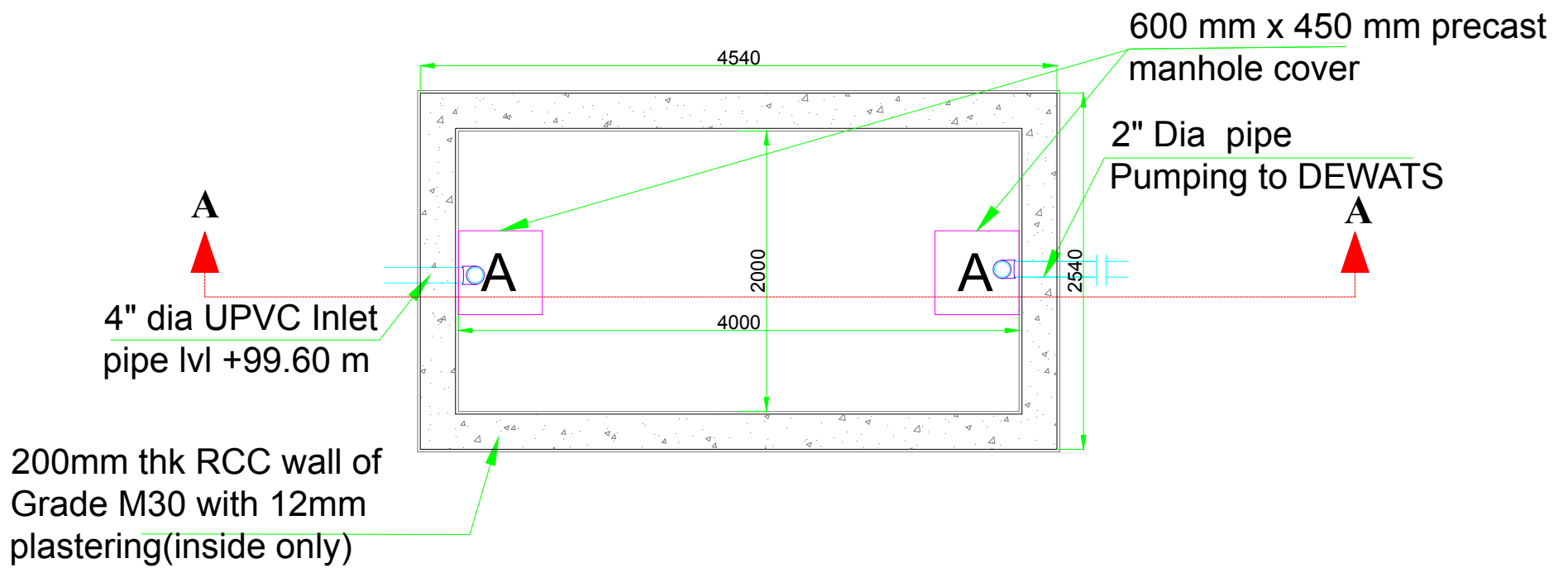
Represented by Rajasthan Urban Infrastructure Development Project (RUIDP)

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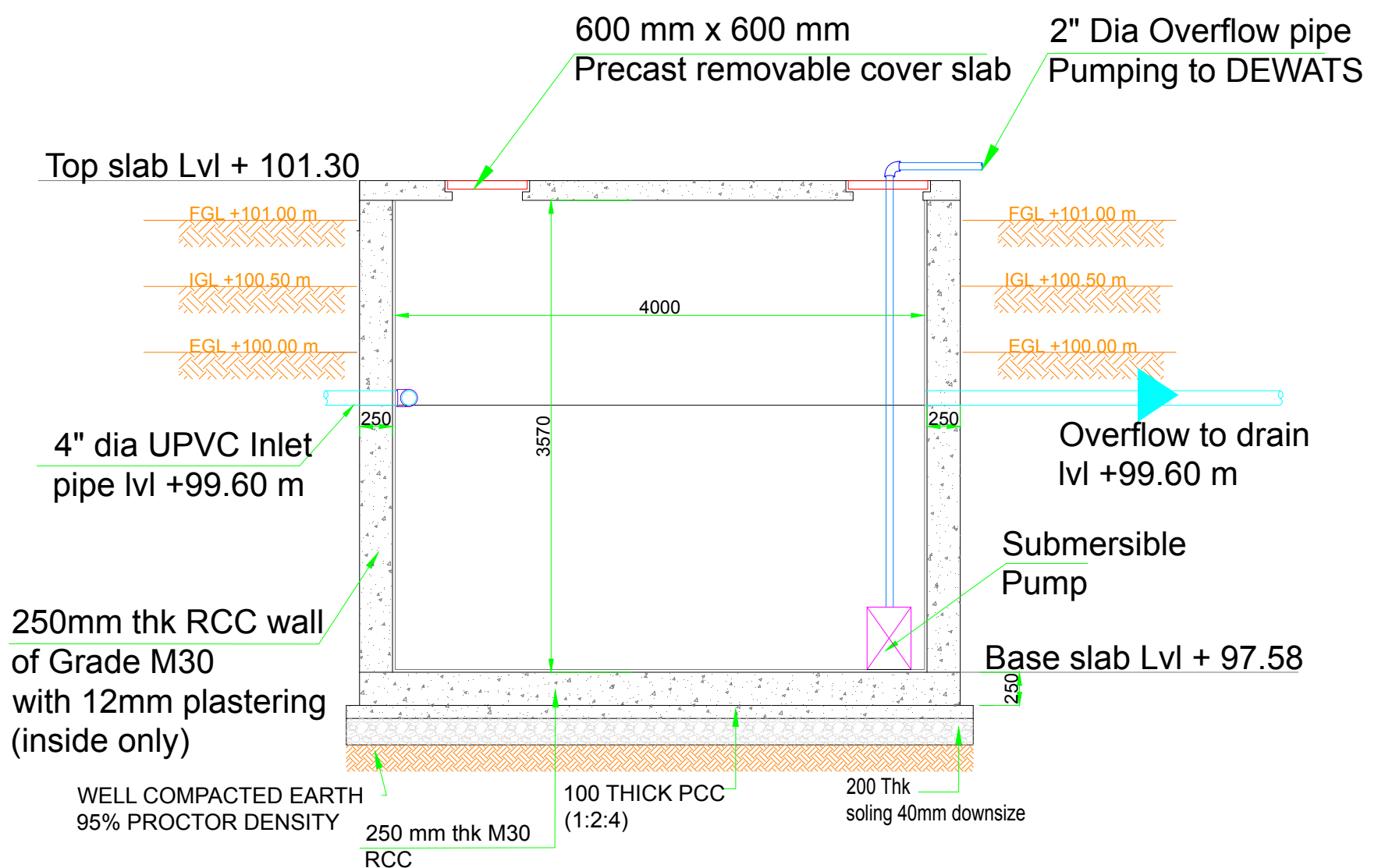
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Plan of Collection Tank 1



Section @ A-A

DRAWING TITLE: Collection Tank 1
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
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DRAWING NO.:
 BMGF/Phulera/D-CT -17

SCALE: NTS

NOTE:
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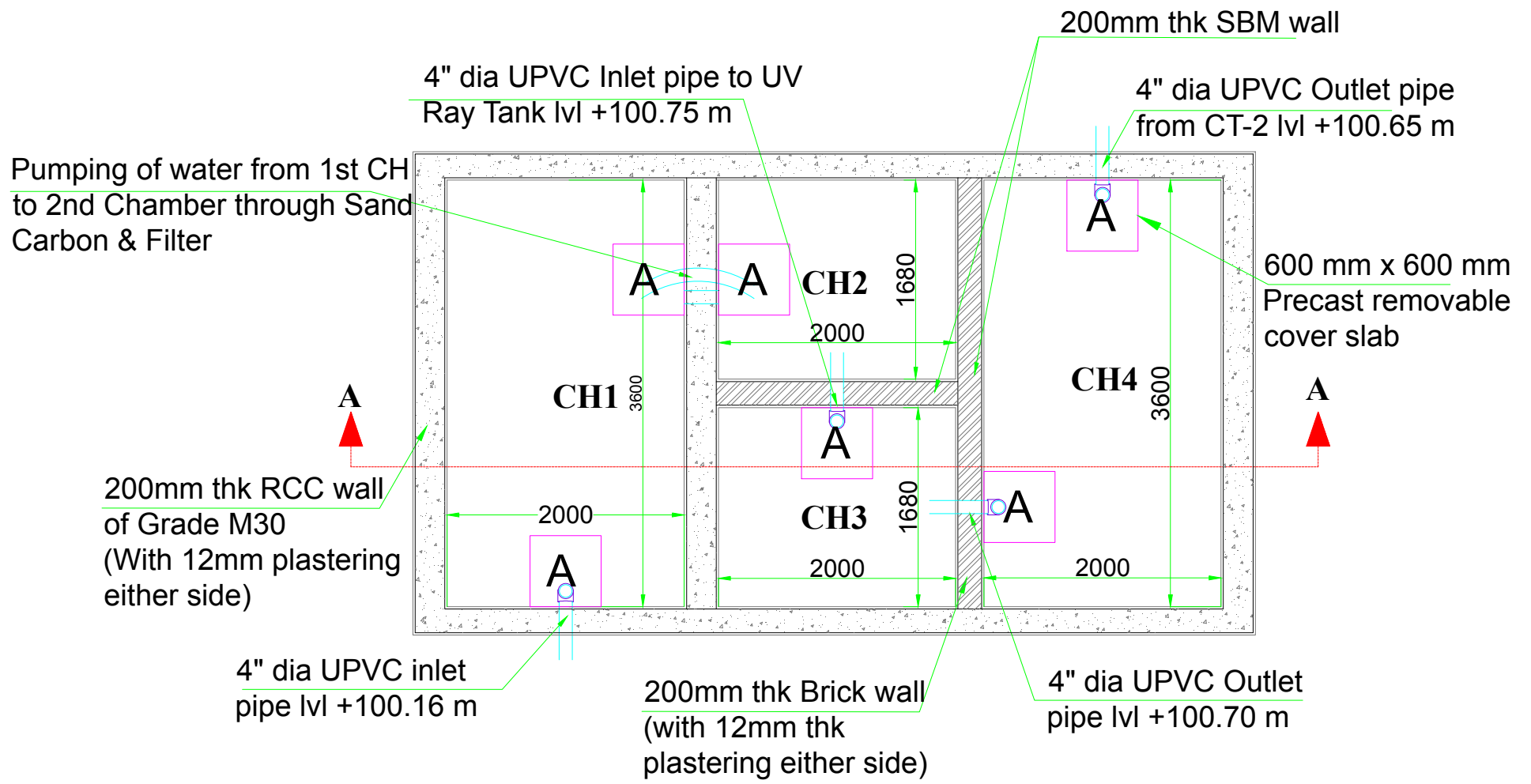
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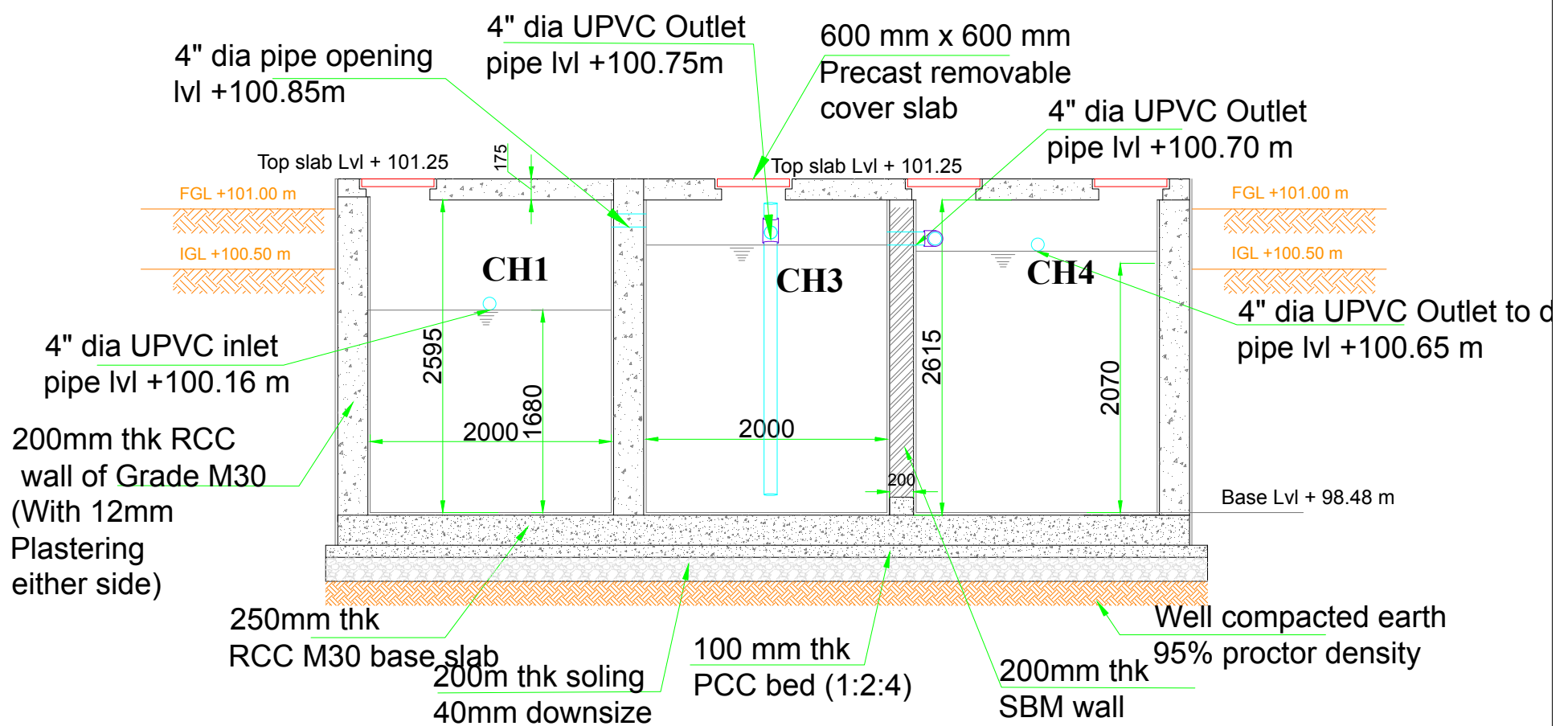
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Plan of collection tank 2



Section @ A-A

DRAWING TITLE: Collection Tank 2
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-CT - 24

NOTE:
All dimensions
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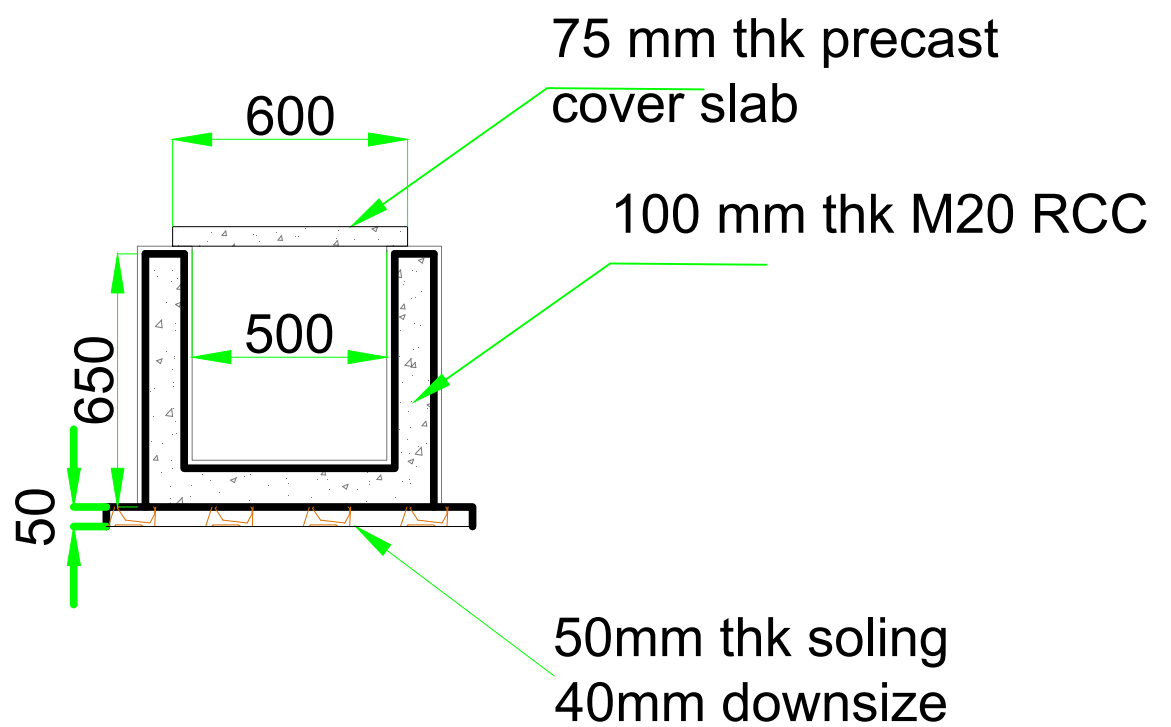
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U-shaped drain



DRAWING TITLE: U-Shaped Drain
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-Drain -34

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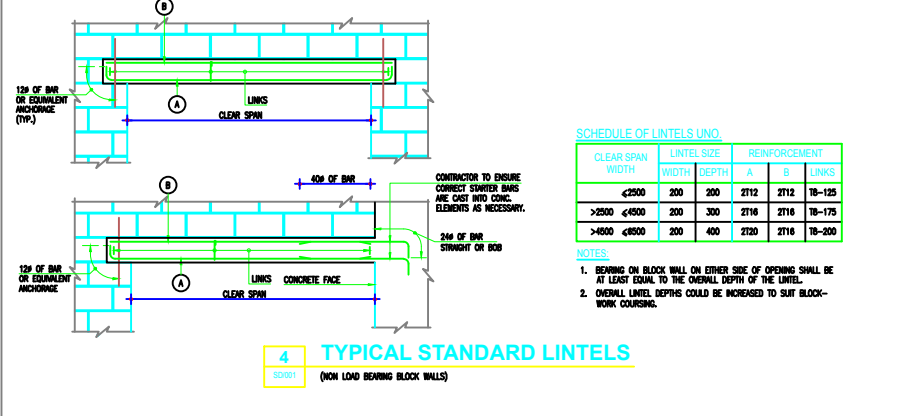
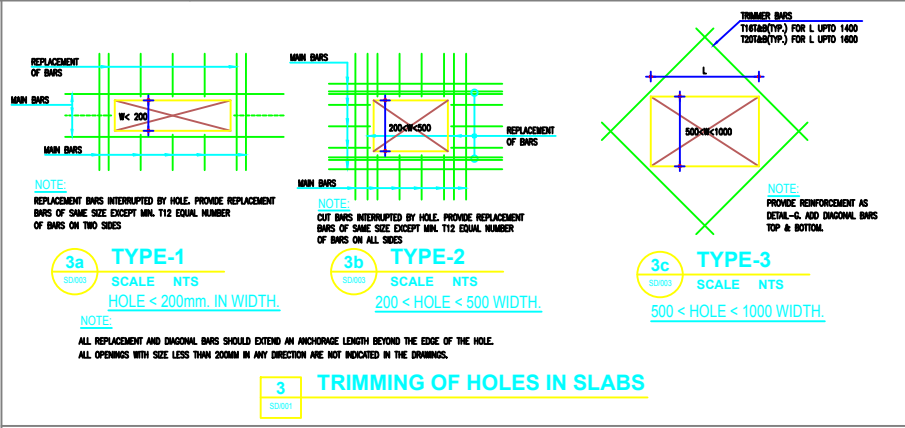
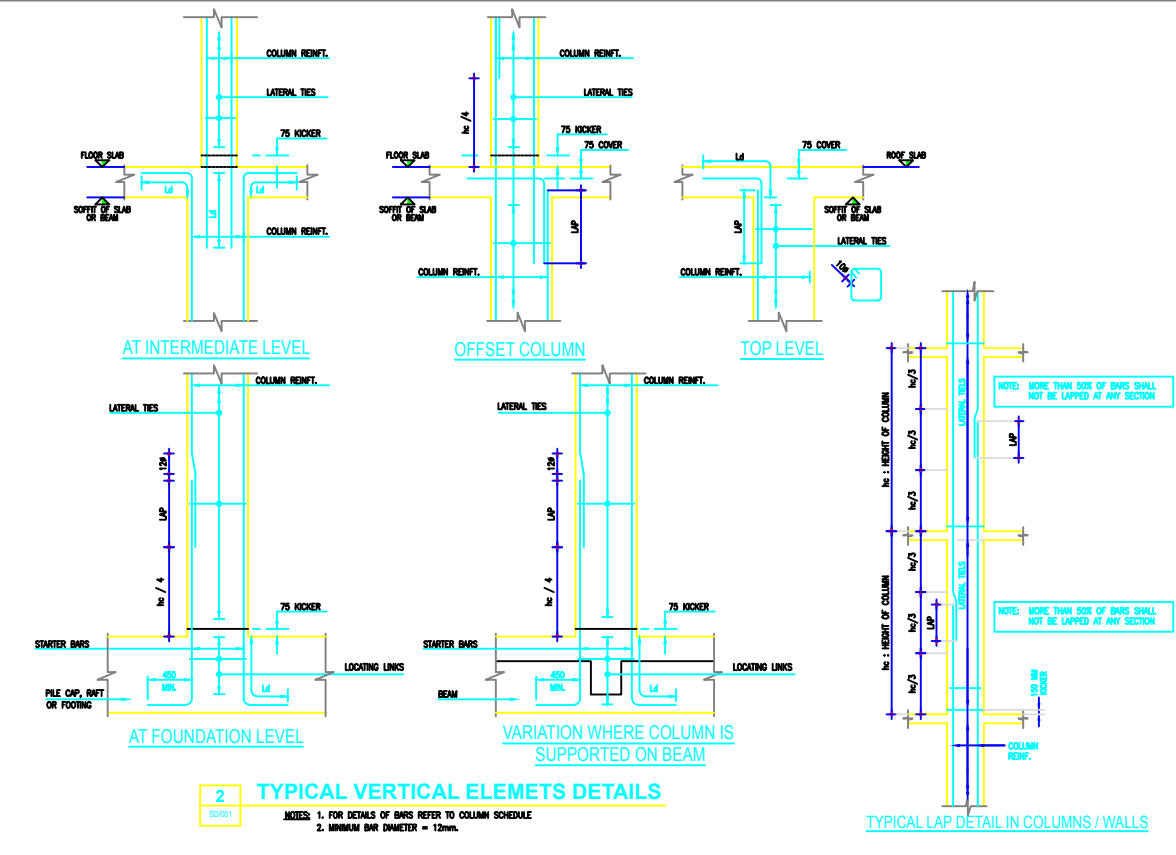
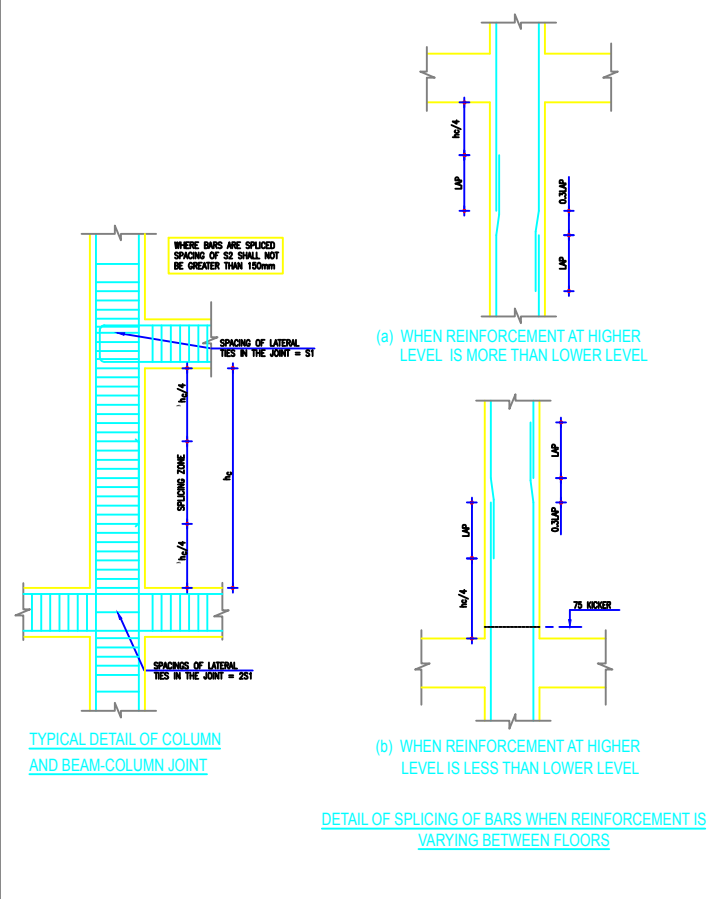
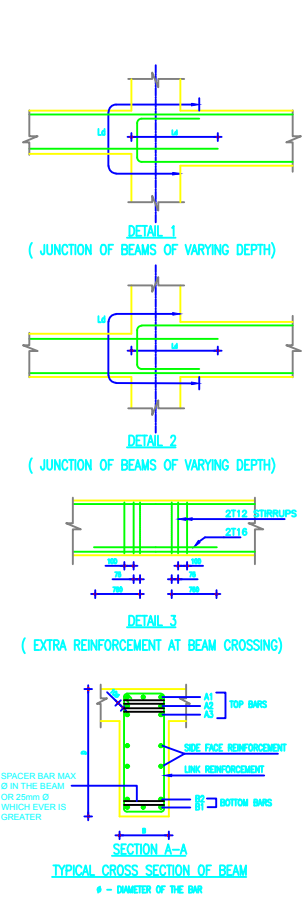
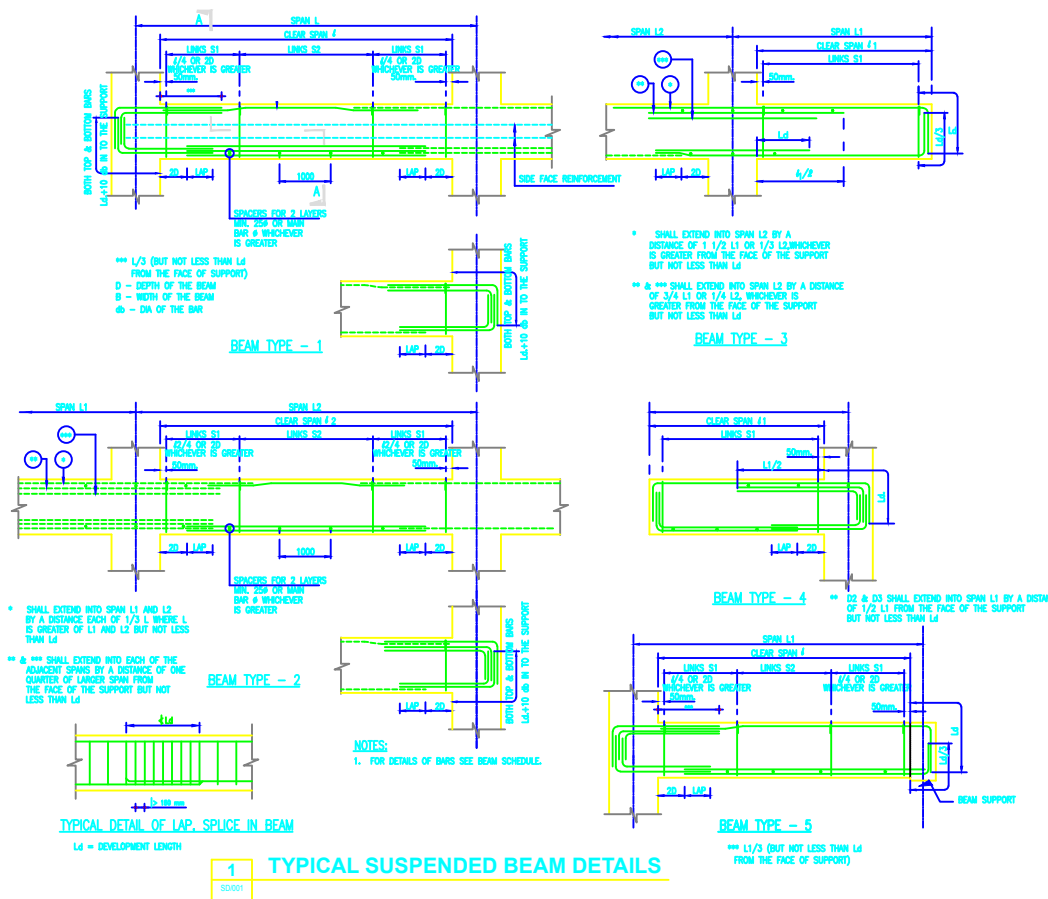
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DRAWING TITLE: General Details
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

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DRAWING NO.:
BMGF/Phulera/D-general details-32

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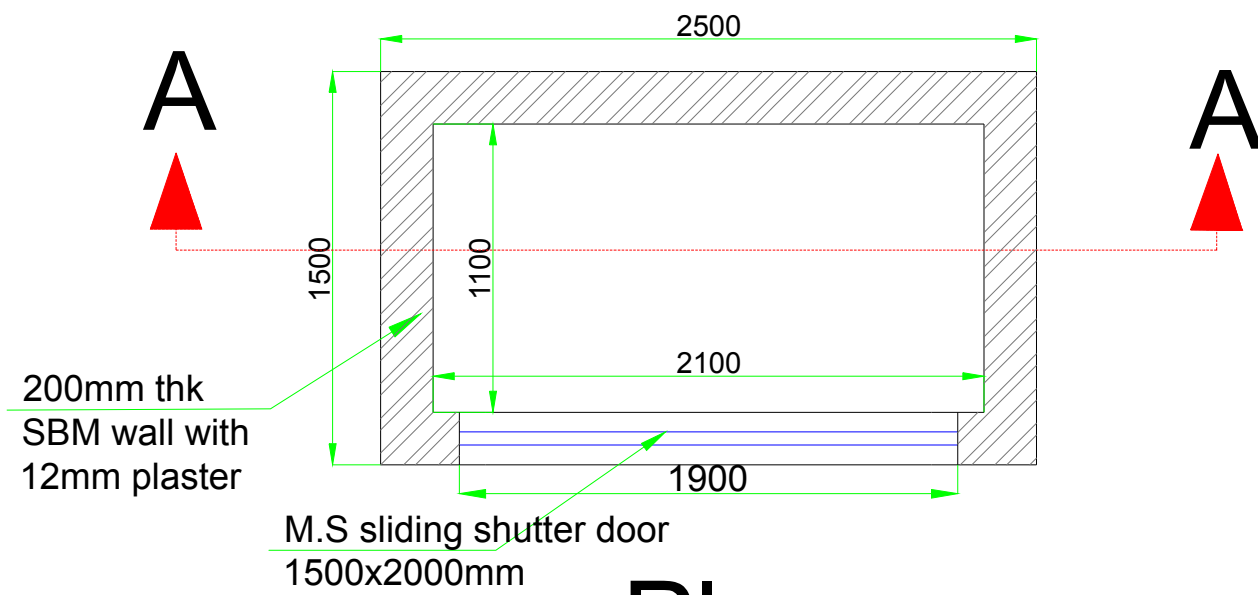
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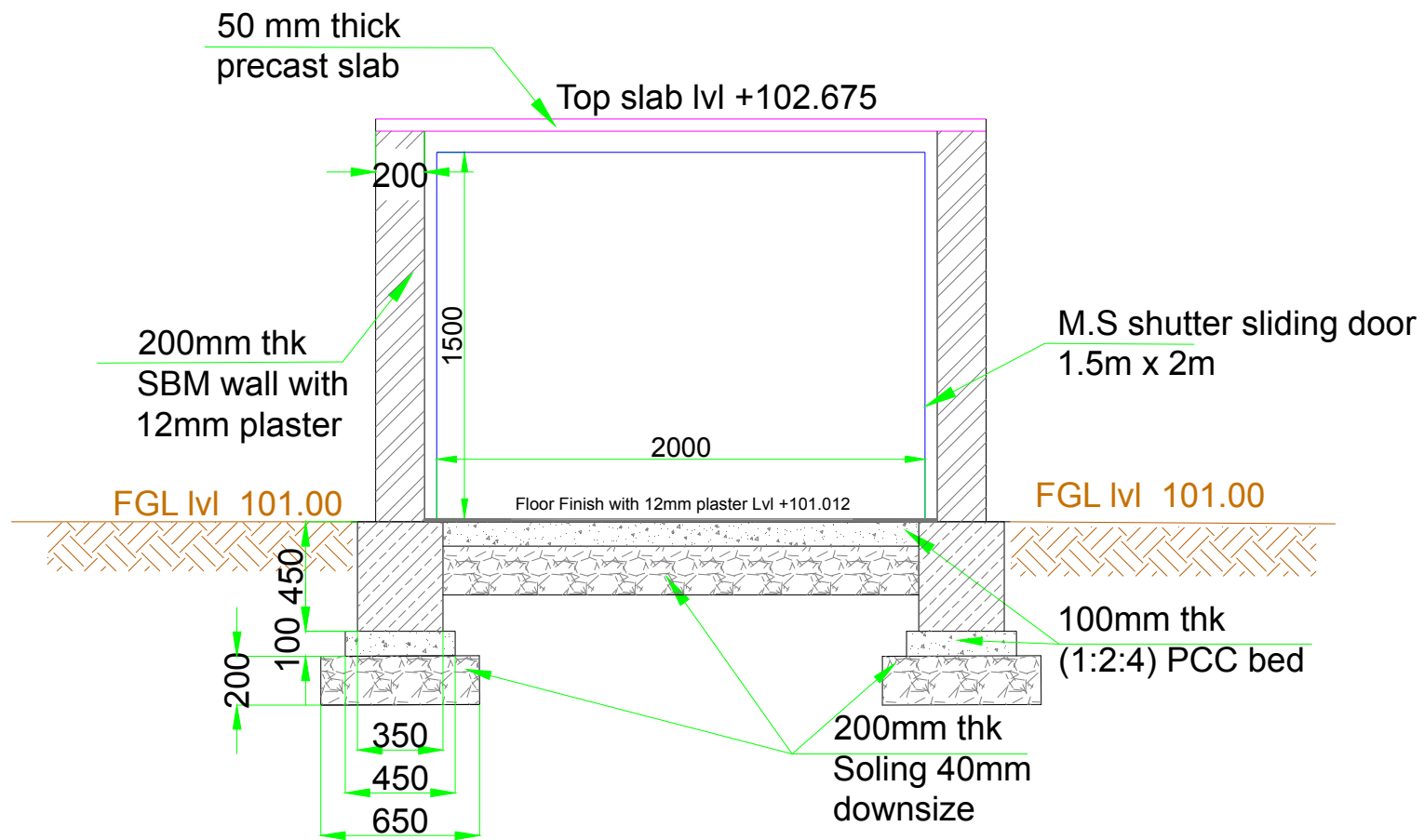
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Logos for IPE Global and CDD Society.



Plan



Section A-A

DRAWING TITLE: Generator Shed
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

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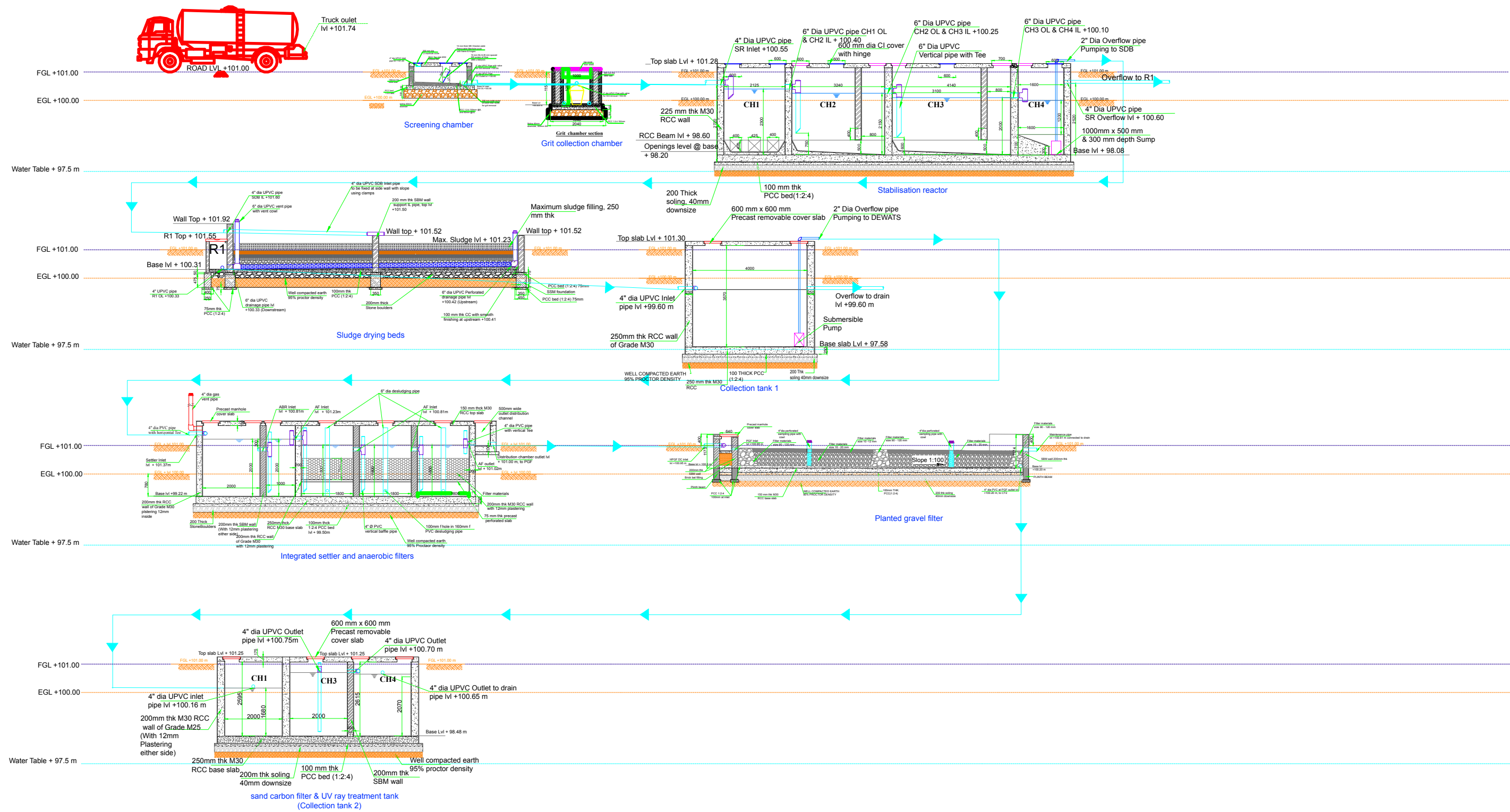
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DRAWING TITLE: Hydraulic Profile
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

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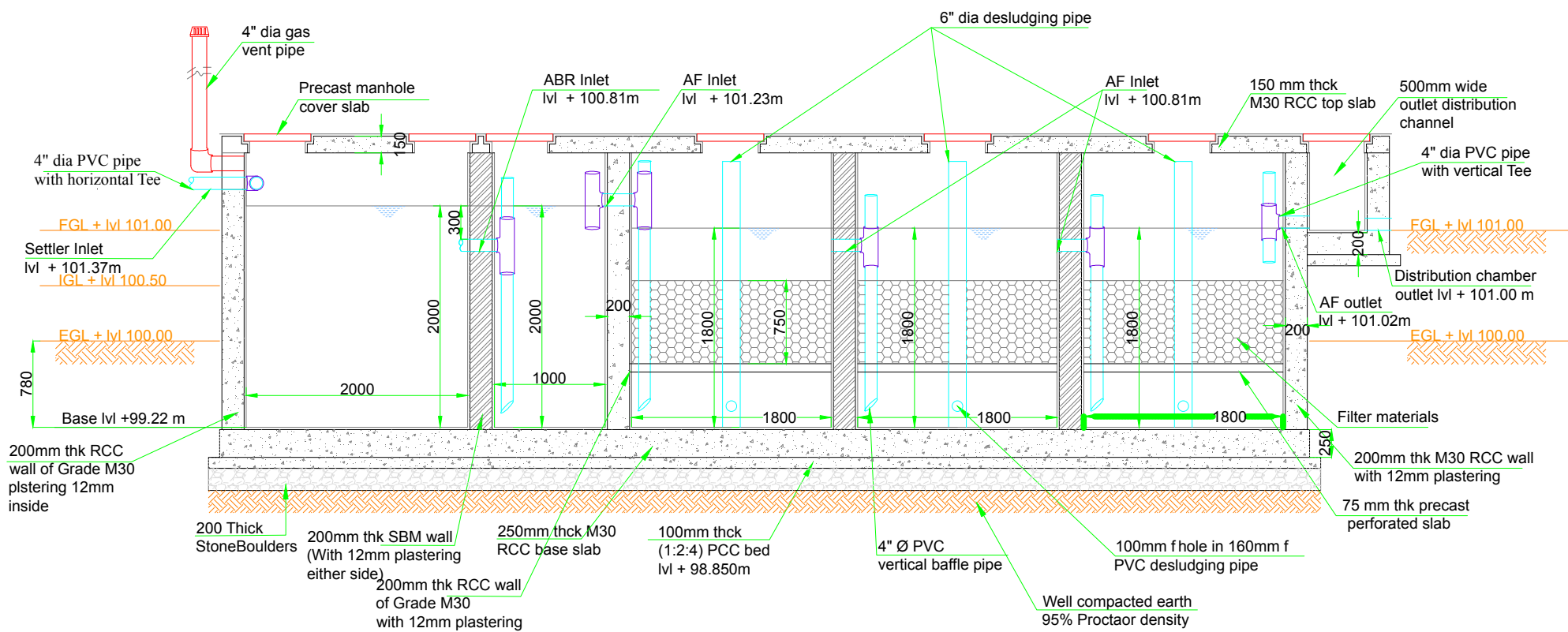
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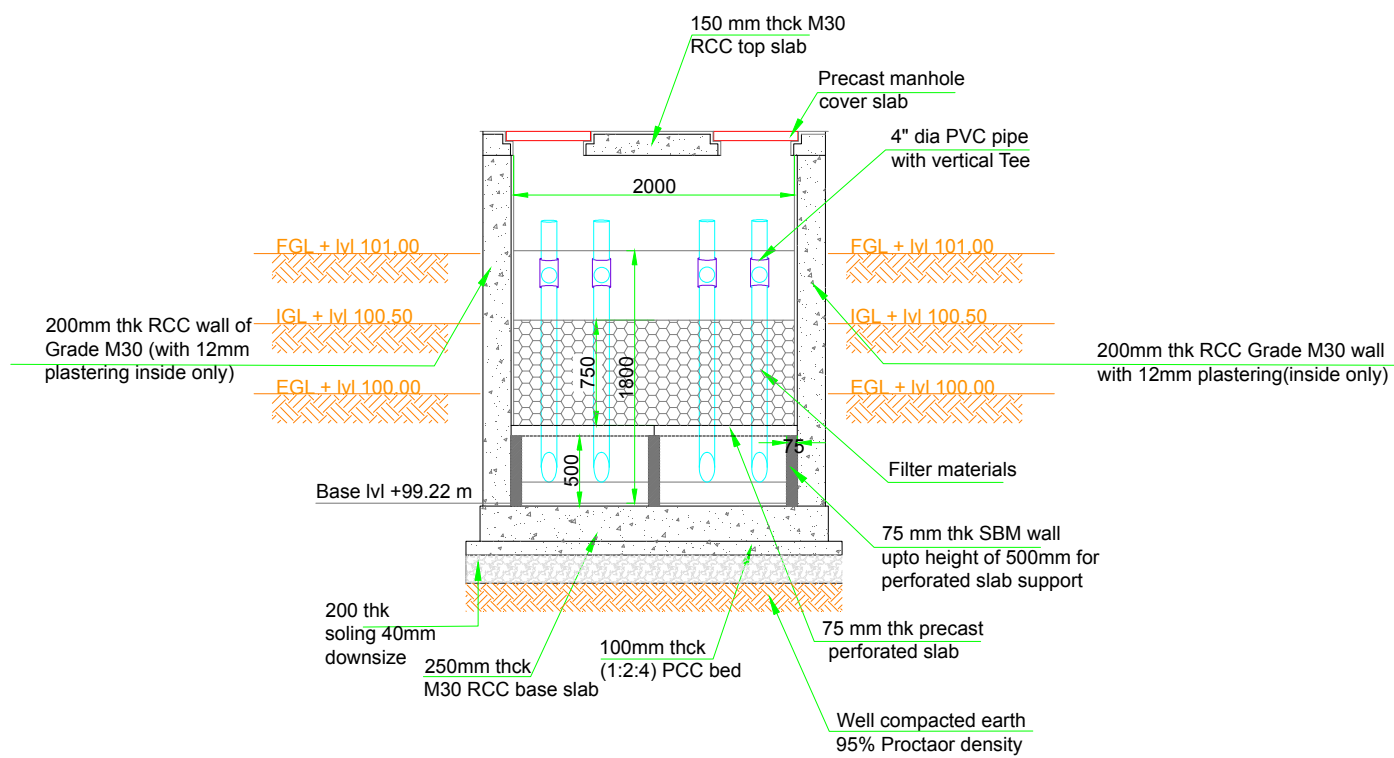
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Cross section @ A-A



Cross section @ B-B

DRAWING TITLE: Integrated Settler Anaerobic Filter
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-ISAF -19

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DRAWING TITLE: Foot Print Layout of FSTP
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan


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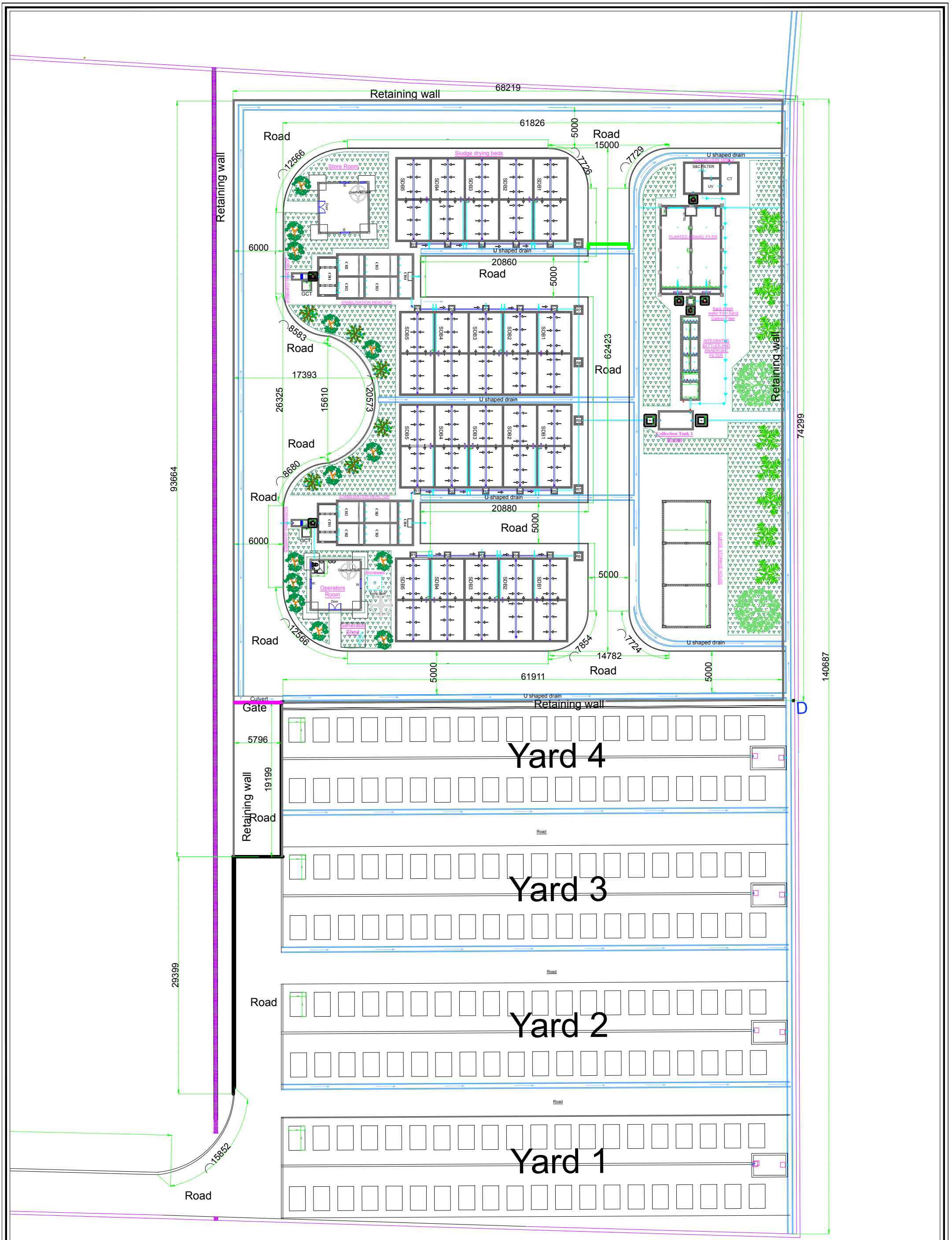





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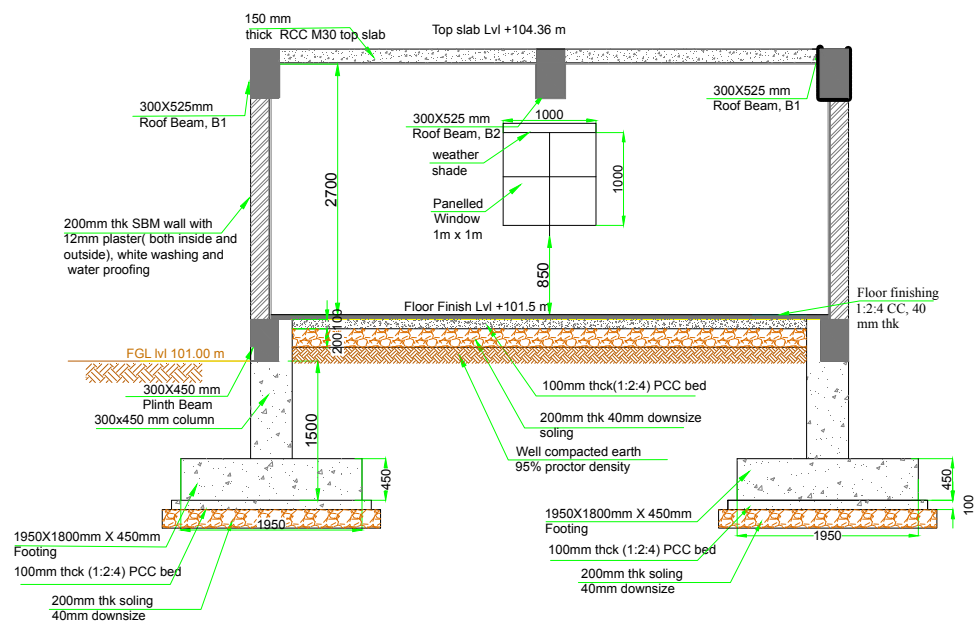
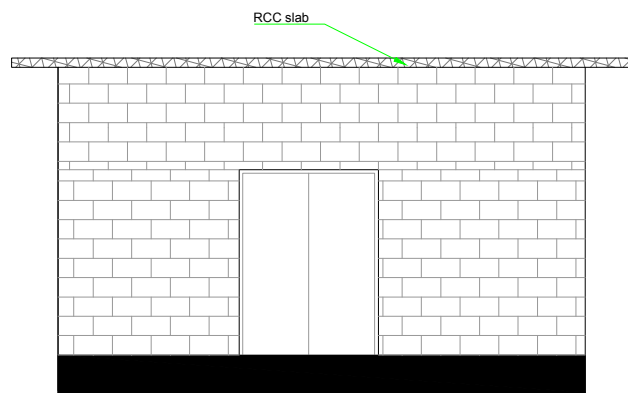
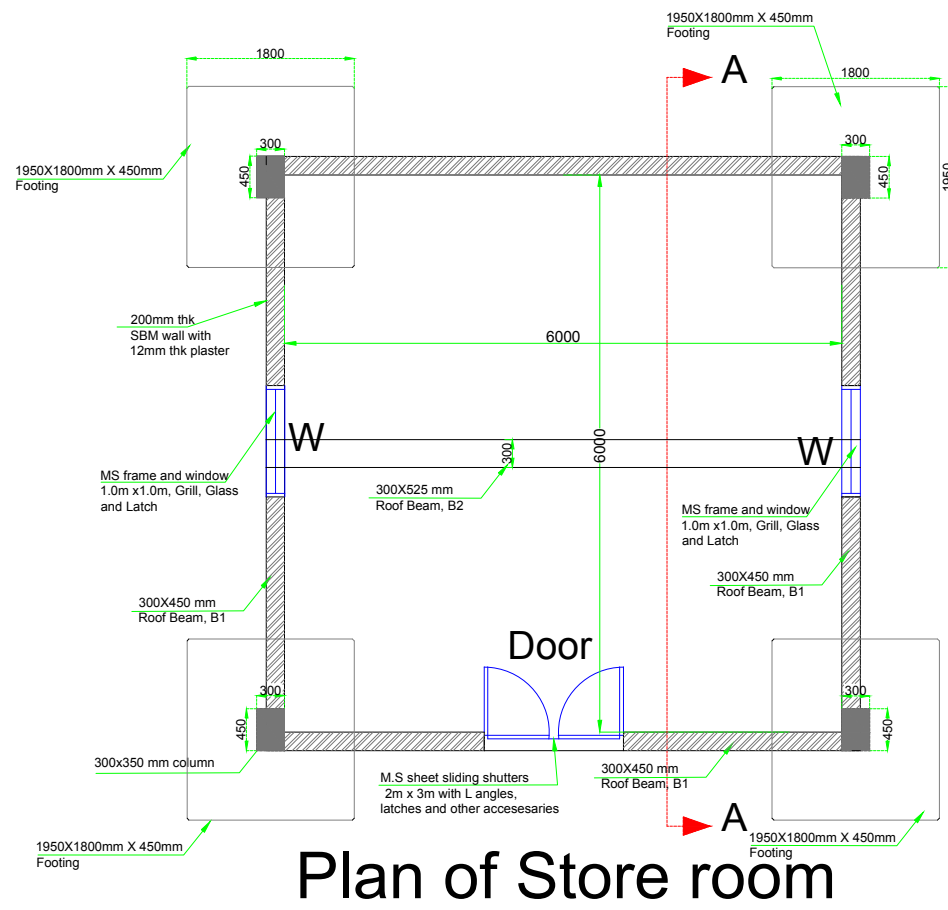
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DRAWING TITLE: Mater Plan- FSTP Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan	DRAWING NO.: BMGF/Phulera/MP-Overall-1	NOTE: All dimensions are in Meter	CLIENTS: Rajasthan Urban Infrastructure Development Project	CONSULTANT: IPE Global Limited <small>IPE Global House B-84, Defence Colony, New Delhi - 110 024 Tel. +91 11 4075 5900 ipe@ipeglobal.com www.ipeglobal.com</small>	SUB - CONSULTANT: CDD Society <small>Survey No.205, Opp. Beedi Workers Colony, Kommaghatta Road, Bandemath, Kengeri Satellite Town, Bengaluru Karnataka 560060</small>
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DRAWING TITLE: Operator Room
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

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SCALE: NTS

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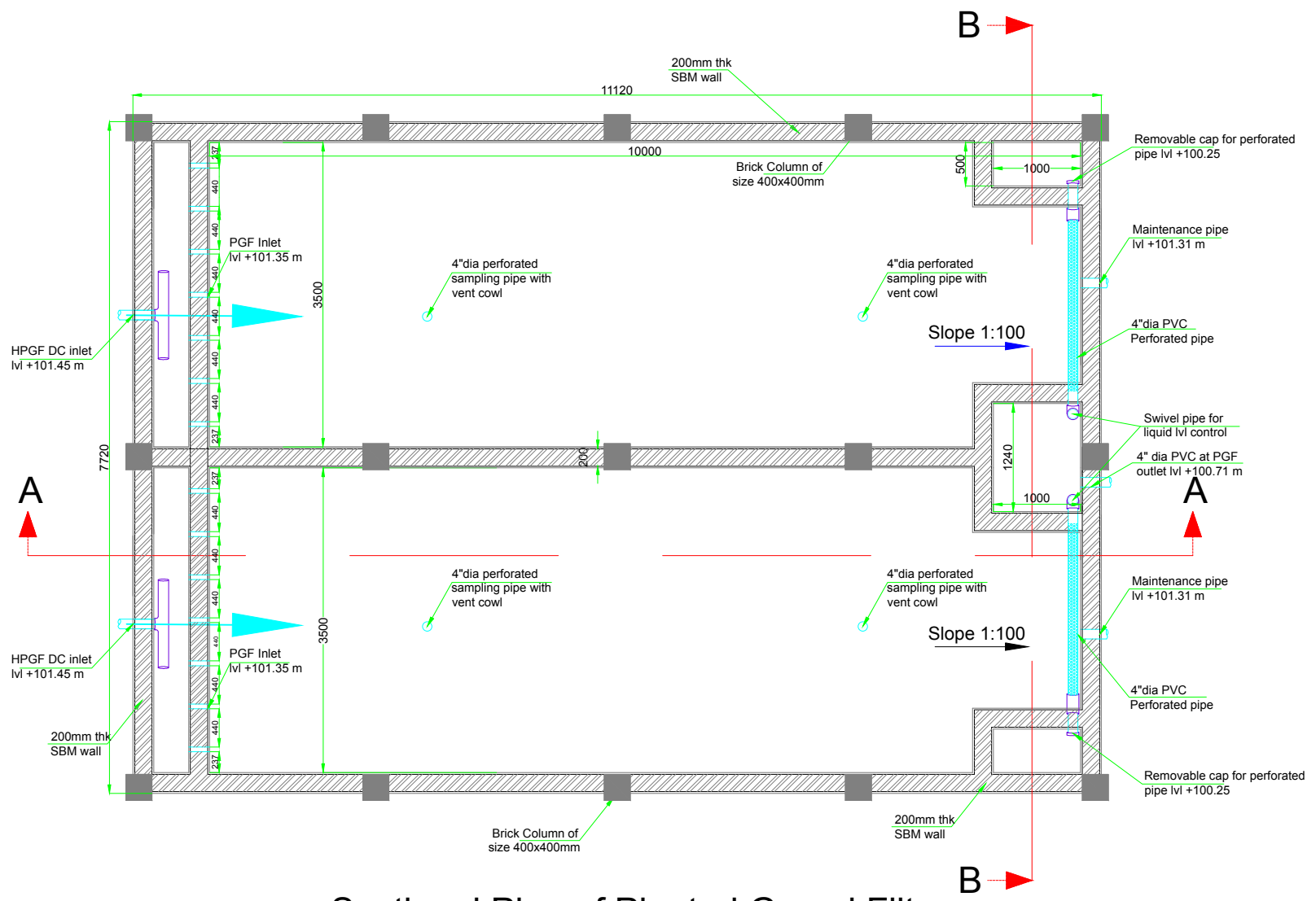
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Sectional Plan of Planted Gravel Filter

DRAWING TITLE: Planted Gravel Filter - Plan
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
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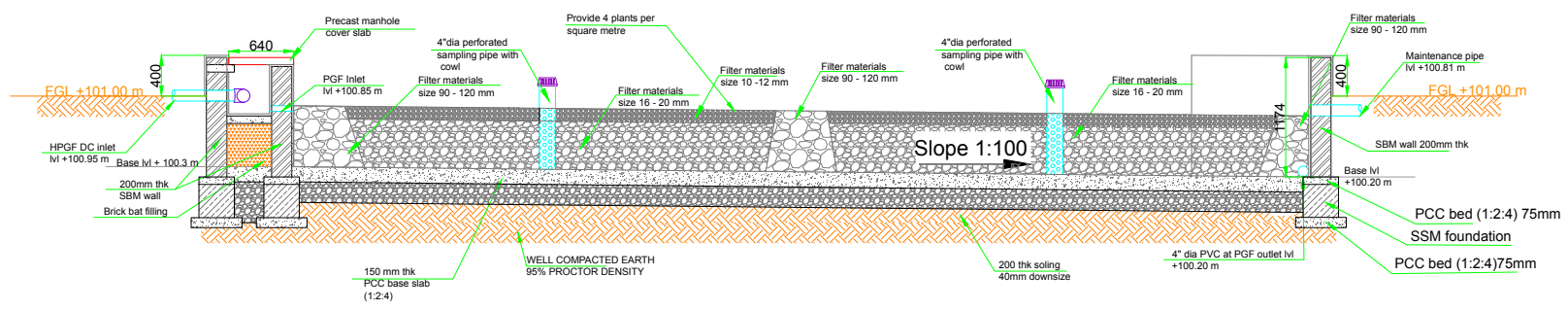
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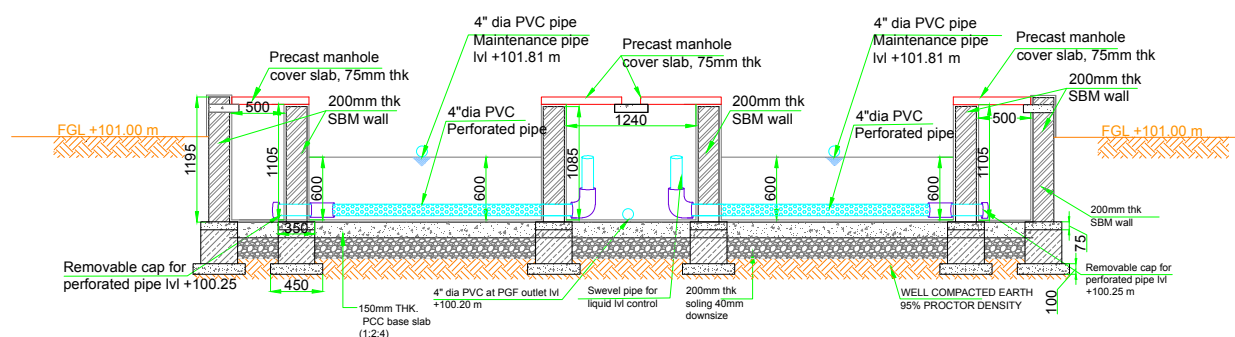
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SCALE: NTS



Section @ A-A



Section @ B-B

DRAWING TITLE: Planted Gravel Filter - Section
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-PGF-22

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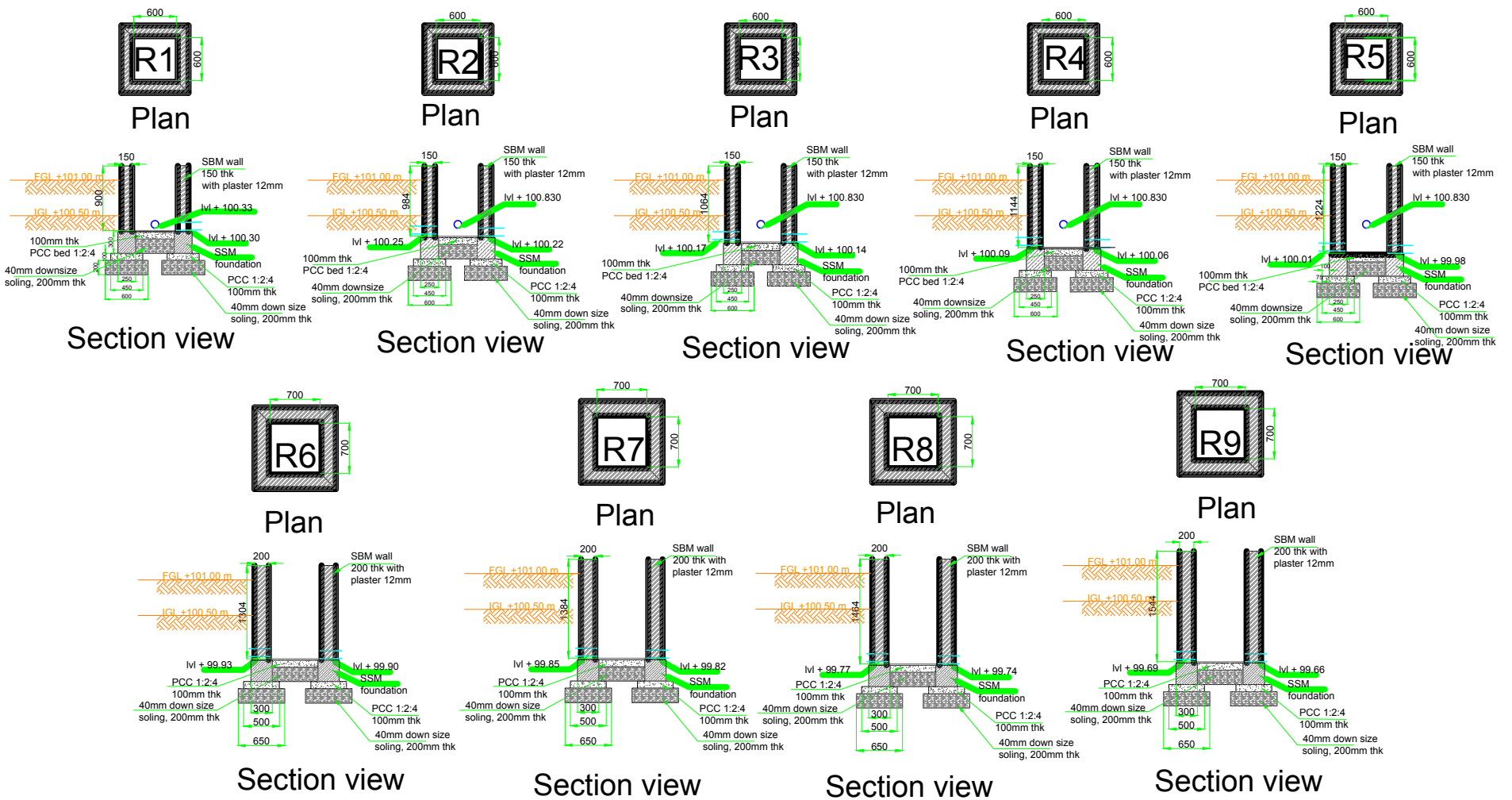
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- Registers**
- #4 R1 #2 R6
 - #4 R2 #2 R7
 - #4 R3 #1 R8
 - #4 R4 #1 R9
 - #4 R5

DRAWING TITLE: Registers
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

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DRAWING NO.:
BMGF/Phulera/D-Register -27

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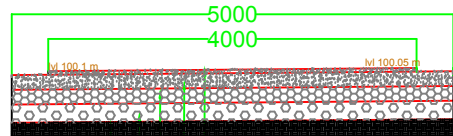
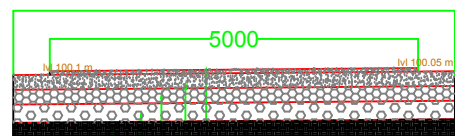


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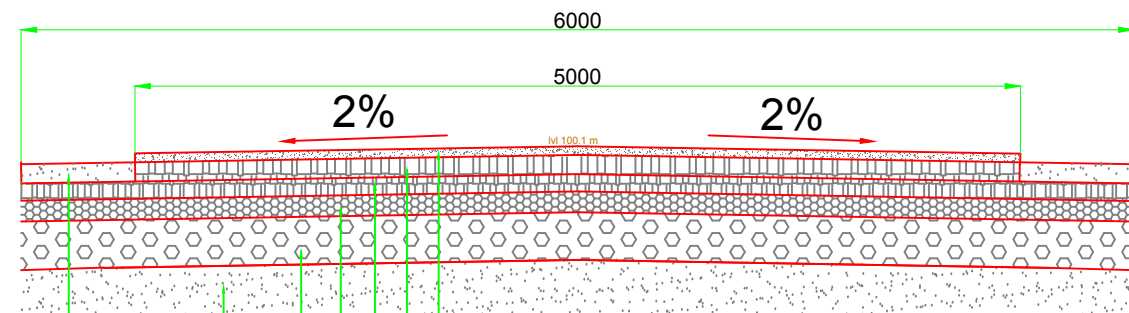
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Rigid pavement



Flexible pavement

DRAWING TITLE: Road Cross Section
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan


DRAWING NO.:
BMGF/Phulera/D-Road-41

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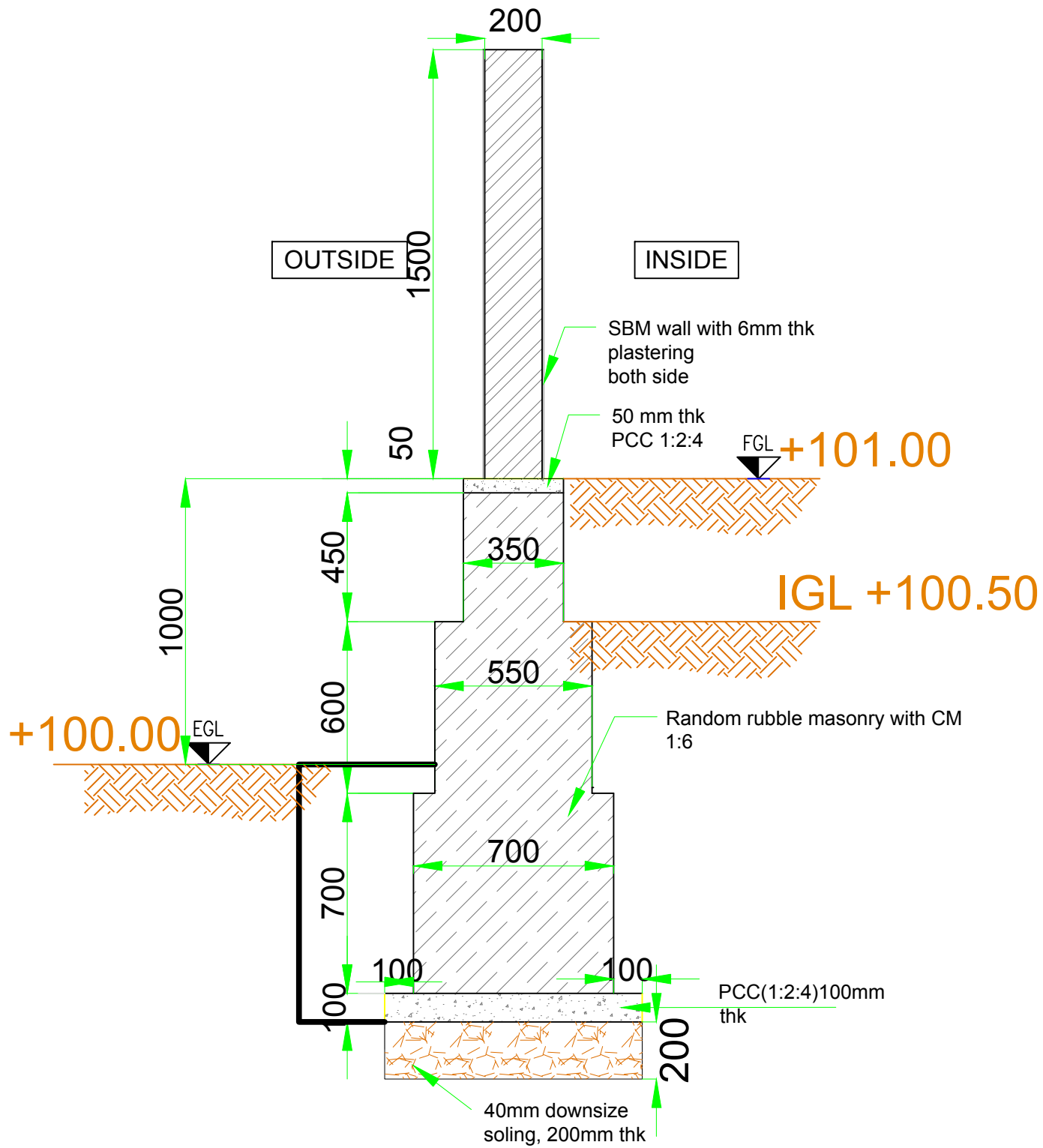


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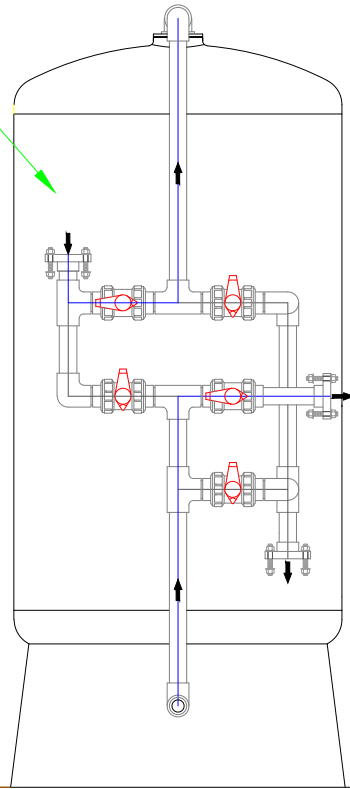


Typical cross section of retaining wall

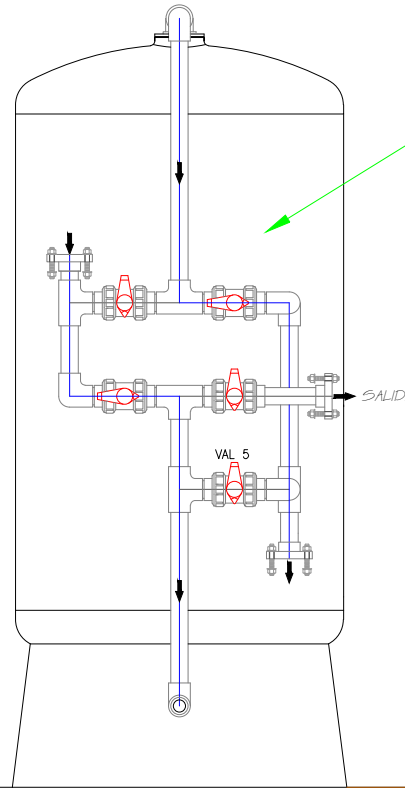
Total retaining wall length= 321 m

<p>DRAWING TITLE: Retaining Wall Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan</p>	<p>DRAWING NO.: BMGF/Phulera/D-RW-40</p>	<p>NOTE: All dimensions are in Meter</p>	<p>CLIENTS: Rajasthan Urban Infrastructure Development Project RUIDP</p>	<p>CONSULTANT: IPE Global Limited IPE Global House B-84, Defence Colony, New Delhi - 110 024 Tel. +91 11 4075 5900 ipe@ipeglobal.com www.ipeglobal.com</p>	<p>SUB - CONSULTANT: CDD Society Survey No.205 ,Opp. Beedi Workers Colony, Kommaghatta Road, Bandemath, Kengeri Satellite Town, Bengaluru Karnataka 560060 CDD Consortium for DEWATS Dissemination Society</p>
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Pressure Sand Filter



Carbon Filter



Representative figure only

FGL lvl 101.00 m



FGL lvl 101.00 m



DRAWING TITLE: Sand and Carbon Filter
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SDF -26

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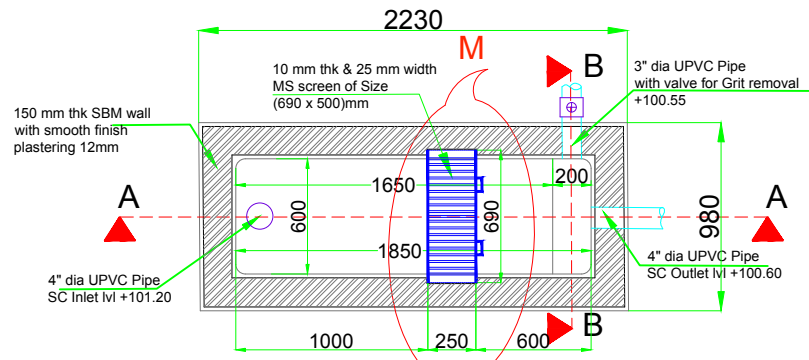
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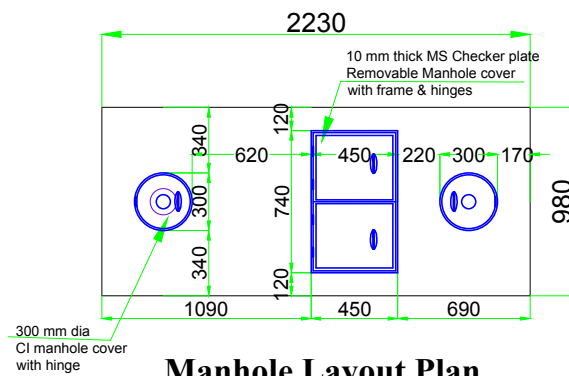
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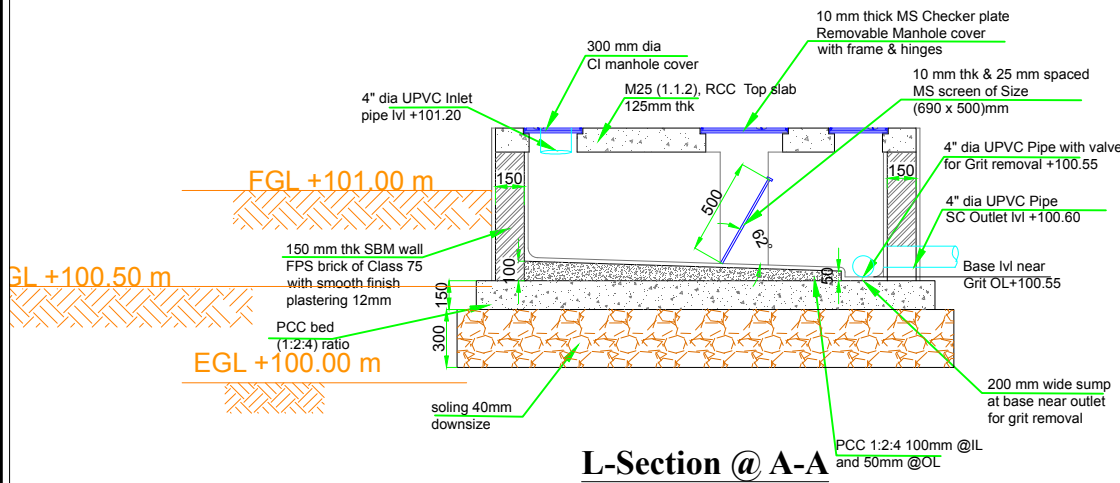




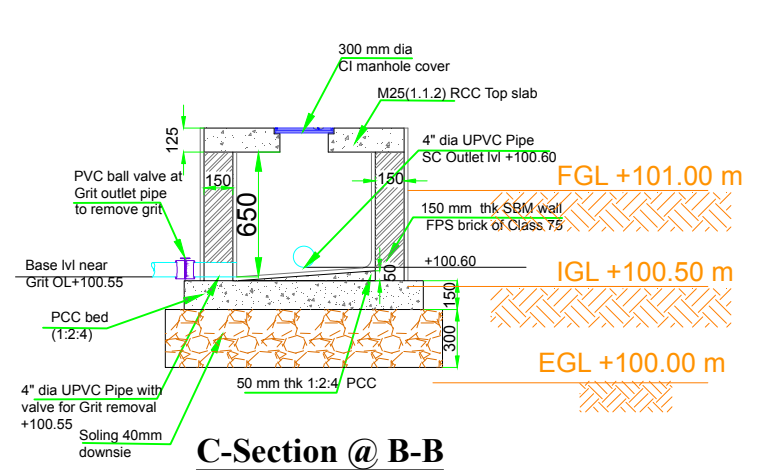
Sectional Plan of Screening Chamber



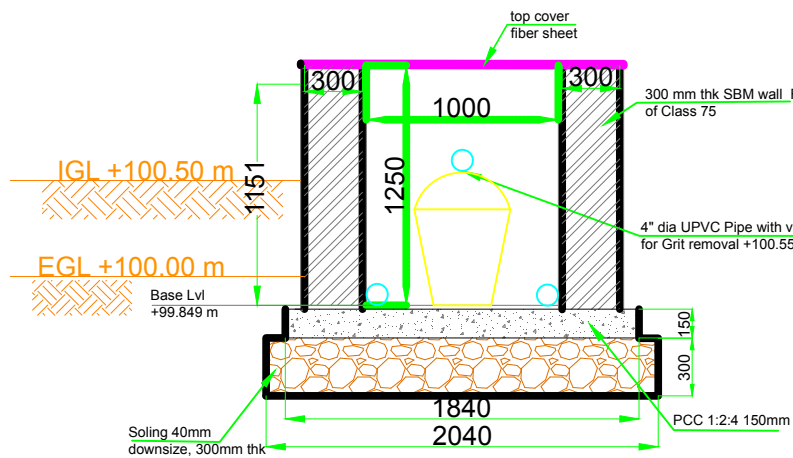
Manhole Layout Plan



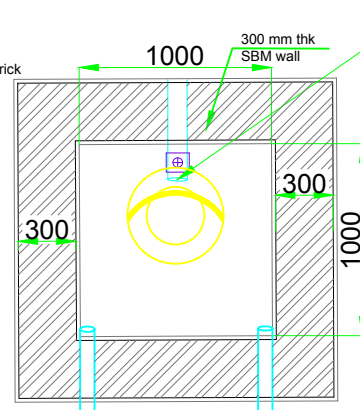
L-Section @ A-A



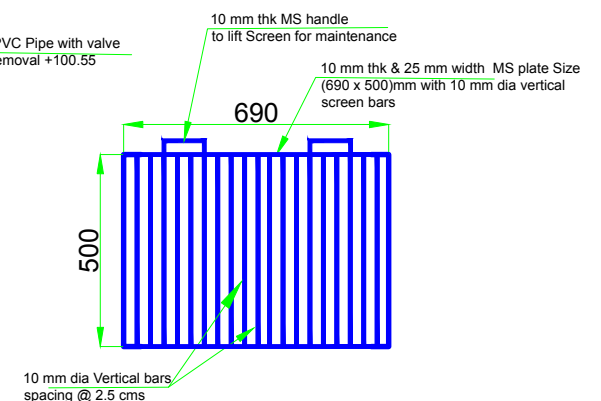
C-Section @ B-B



Grit chamber section



Grit chamber plan



Detail @ M MS Screen

DRAWING TITLE: Screen Chamber
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SC-4

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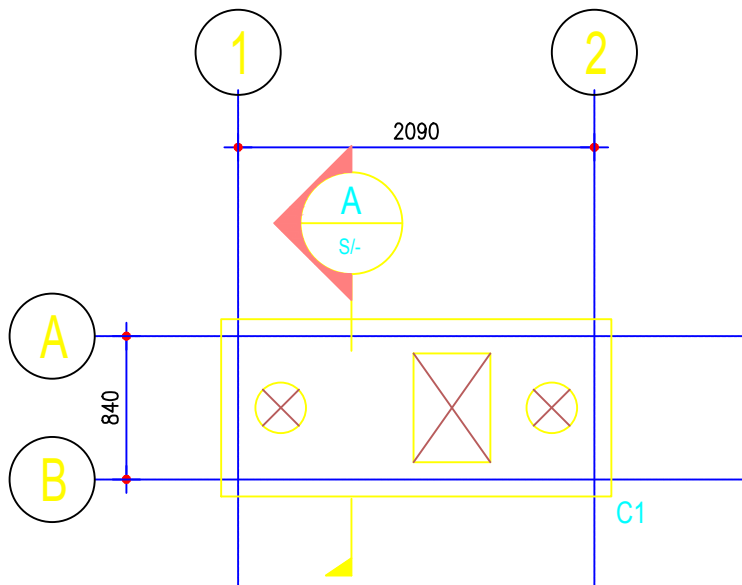
SUB - CONSULTANT:
CDD Society



Survey No.205 ,Opp.
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Kommaghatta Road,
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Satellite Town, Bengaluru
Karnataka 560060

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS

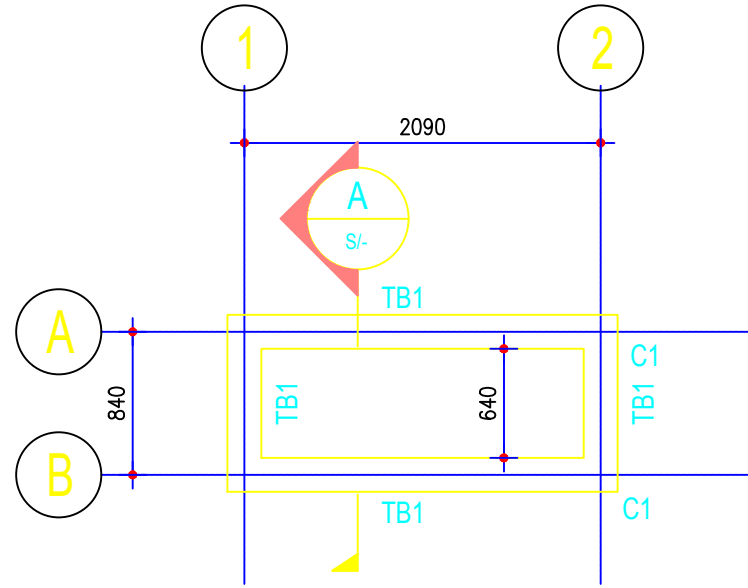


SCREENING CHAMBER TOP SLAB PLAN

2

S/100

SCALE 1:50



SCREENING CHAMBER BOTTOM TIE BEAM LAYOUT

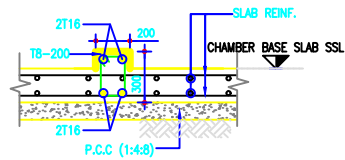
1

S/100

SCALE 1:50

NOTE :

1. TOP SLABS SHALL BE 125 thk. (UNO)

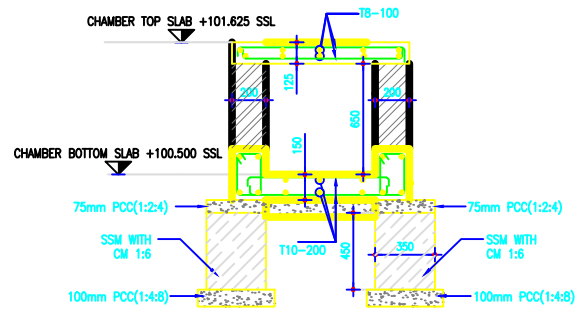


3

S/100

TYPICAL SECTION OF TB1

SCALE 1:25



4

S/101

SECTION A

SCALE 1:25

DRAWING TITLE: Screen Chamber - Detail
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/SD-SC-5

NOTE:
All dimensions
are in Meter

CLIENTS:
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ipe@ipeglobal.com
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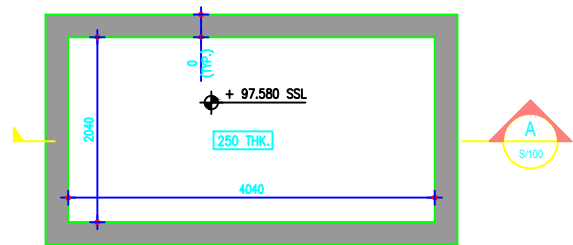
SUB - CONSULTANT:
CDD Society



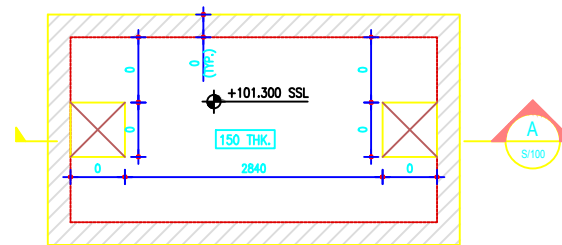
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Capacity Building Support for Innovative Sanitation Solution for Rajasthan

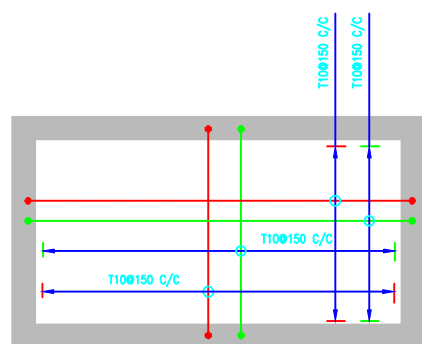
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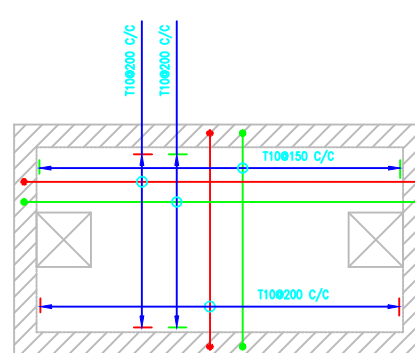
1 BOTTOM SLAB OF COLLECTION TANK
SCALE 1:50



2 TOP SLAB OF COLLECTION TANK
SCALE 1:50

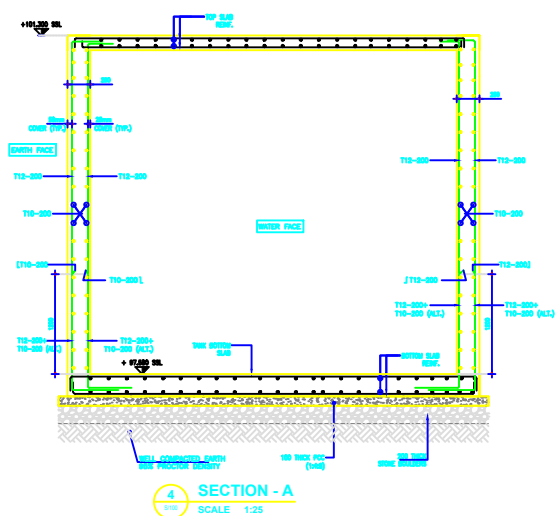


3 BOTTOM SLAB REINF. DETAILS
SCALE 1:50

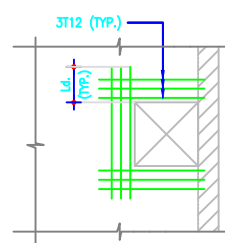


4 TOP SLAB REINF. DETAILS
SCALE 1:50

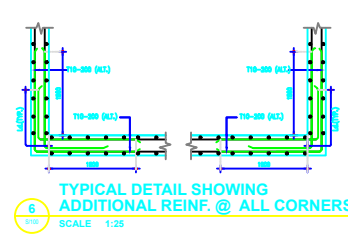
LEGEND :
 ——— INDICATES BOTTOM REINFORCEMENT
 ——— INDICATES TOP REINFORCEMENT



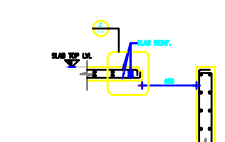
4 SECTION - A
SCALE 1:25



9 DETAIL Y
SCALE 1:50



6 TYPICAL DETAIL SHOWING ADDITIONAL REINF. @ ALL CORNERS
SCALE 1:25



7 TYPICAL MAN HOLE DETAIL
SCALE 1:25

DRAWING TITLE: Collection Tank 1 - Detail
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.: BMGF/Phulera/SD-CT -18

NOTE:
All dimensions are in Meter

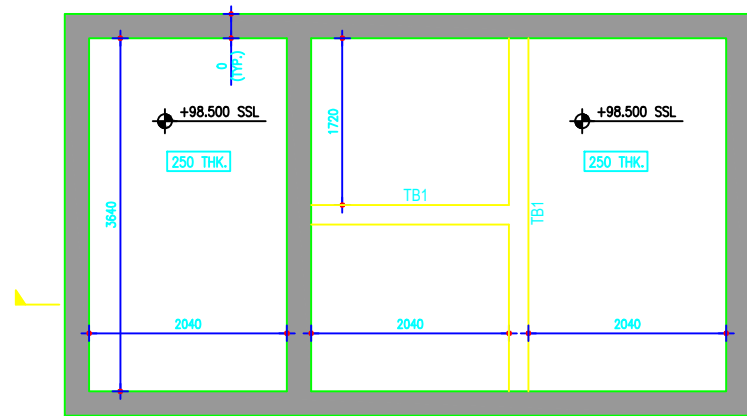
PROJECT: Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS

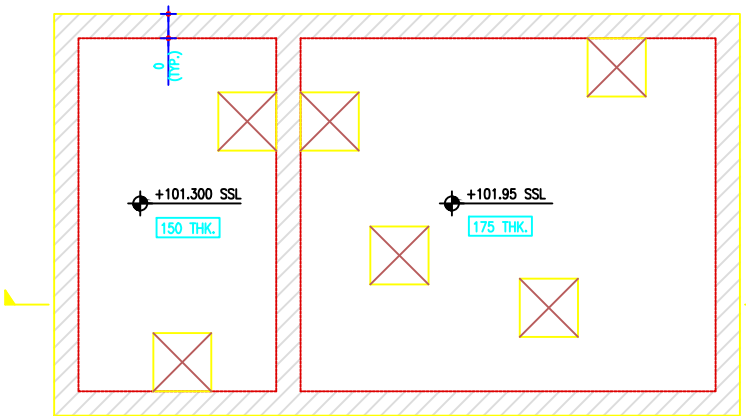
CLIENTS: Rajasthan Urban Infrastructure Development Project
RUIDP

CONSULTANT: IPE Global Limited
IPE Global House
B-84, Defence Colony,
New Delhi - 110 024
Tel. +91 11 4075 5900
ipe@ipeglobal.com
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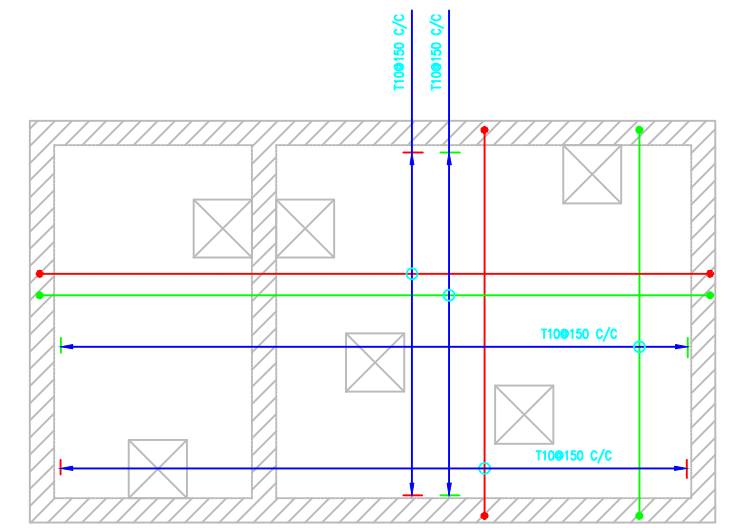
SUB - CONSULTANT: CDD Society
Survey No.205, Opp.
Beedi Workers Colony,
Kommaghatta Road,
Bandemath, Kengeri
Satellite Town, Bengaluru
Karnataka 560060
Consortium for DEWATS Dissemination Society



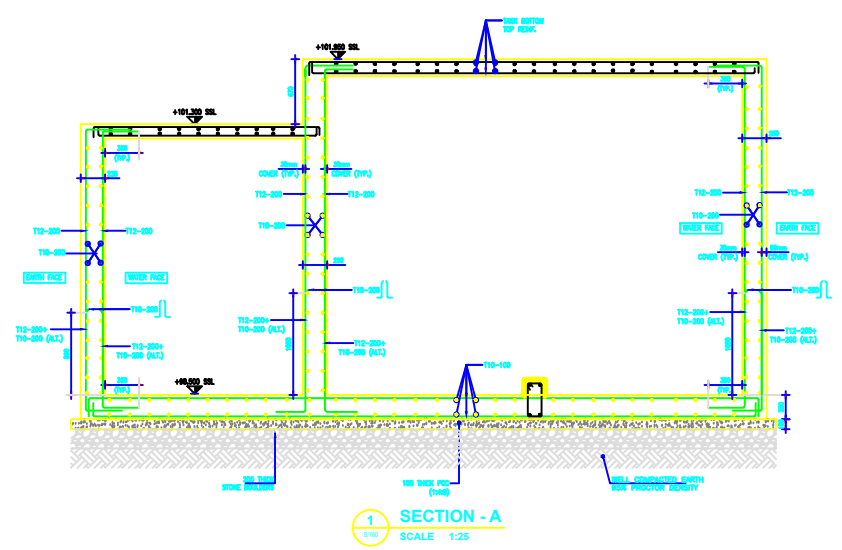
1 COLLECTION, SAND CARBON FILTER & UV RAY TANK BOTTOM SLAB
 S/100 SCALE 1:50



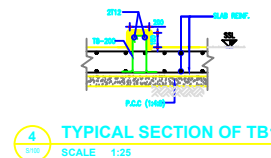
2 COLLECTION, SAND CARBON FILTER & UV RAY TANK TOP SLAB
 S/100 SCALE 1:50



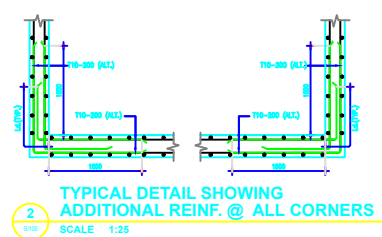
3 COLLECTION, SAND CARBON FILTER & UV RAY TANK TOP SLAB REINF. DETAILS
 S/100 SCALE 1:50



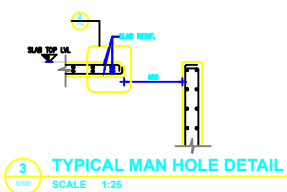
1 SECTION - A
 S/100 SCALE 1:25



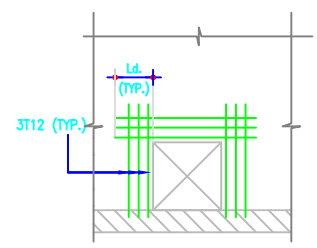
4 TYPICAL SECTION OF TB1
 S/100 SCALE 1:25



2 TYPICAL DETAIL SHOWING ADDITIONAL REINF. @ ALL CORNERS
 S/100 SCALE 1:25



3 TYPICAL MAN HOLE DETAIL
 S/100 SCALE 1:25



5 TYPICAL DETAIL
 S/100 SCALE 1:50

DRAWING TITLE: Collection Tank 2 - Detail
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan


PROJECT:
 Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
 BMGF/Phulera/SD-CT-25

SCALE: NTS

NOTE:
 This drawing is indicative and for bidding purpose only

CLIENTS:
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CONSULTANT:
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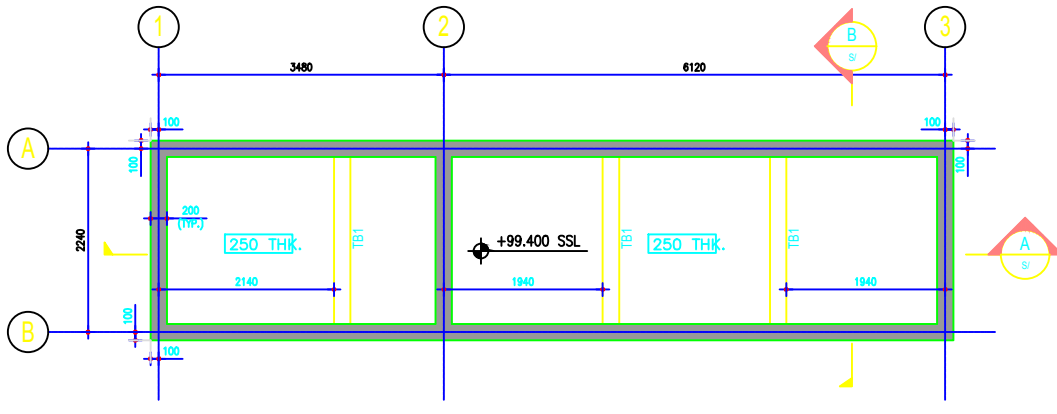


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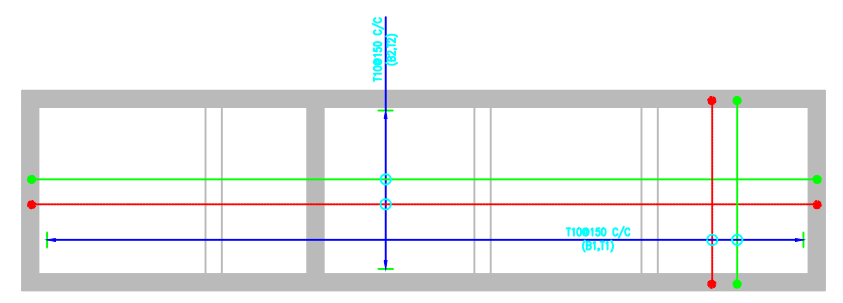
SUB CONSULTANT:
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 Bandemath, Kengeri
 Satellite Town,
 Bengaluru, Karnataka
 560060

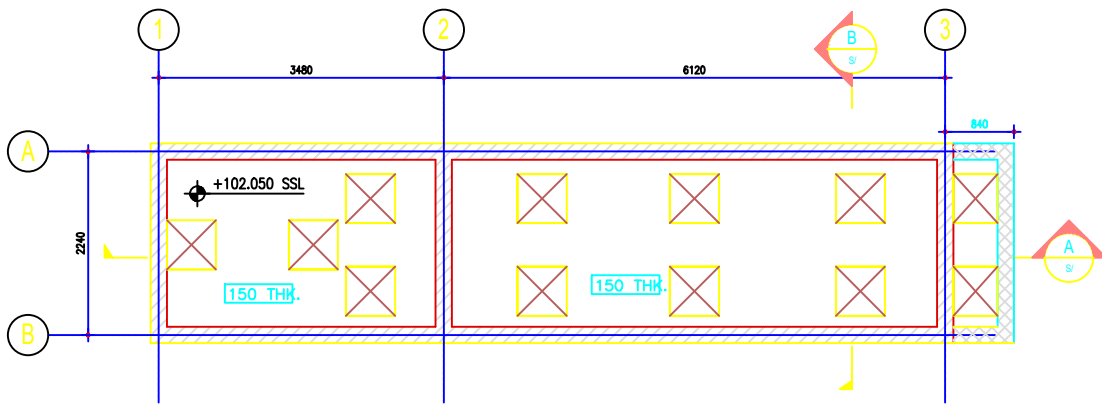


1
INTEGRATED SETTLER AND ANAEROBIC FILTERS BASE SLAB PLAN
SCALE 1:50



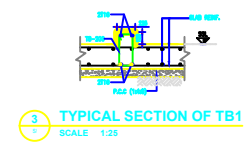
2
INTEGRATED SETTLER AND ANAEROBIC FILTERS BASE SLAB RC DETAILS
SCALE 1:50

LEGEND :
 — INDICATES BOTTOM REINFORCEMENT
 — INDICATES TOP REINFORCEMENT



4
INTEGRATED SETTLER AND ANAEROBIC FILTERS TOP SLAB PLAN
SCALE 1:50

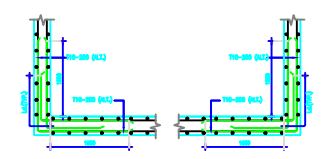
NOTE :
 1. TOP SLABS SHALL BE 150 thk. (UNO).
 2. TOP SLABS @ +102.050 SSL.
 3. FOR MANHOLE LOCATION REFER RELEVANT ARCH. DWG.



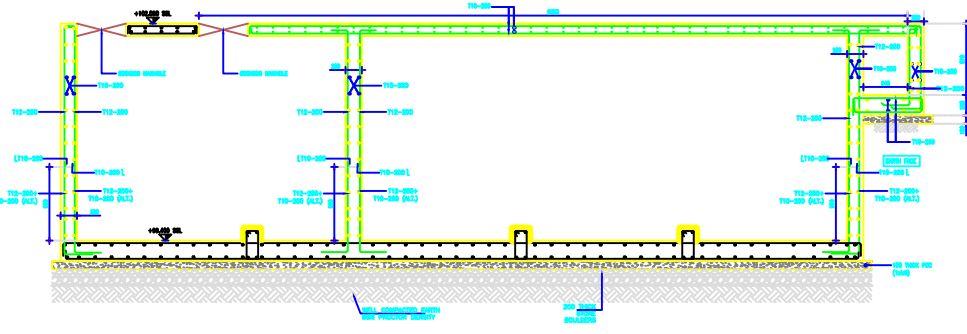
3
TYPICAL SECTION OF TB1
SCALE 1:25



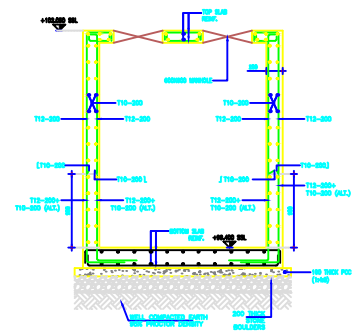
11
TYPICAL MAN HOLE DETAIL
SCALE 1:25



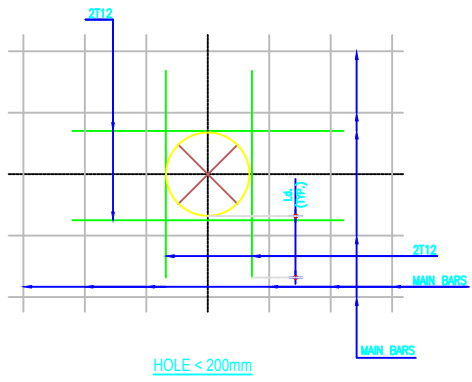
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TYPICAL DETAIL SHOWING ADDITIONAL REINF. @ ALL CORNERS
SCALE 1:25



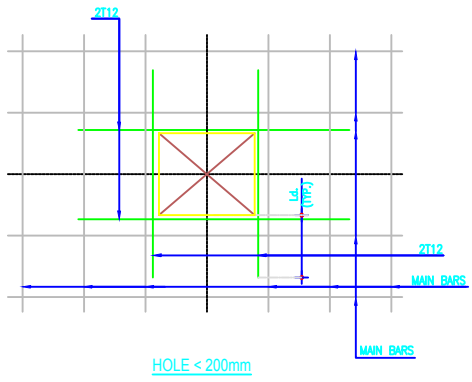
5
SECTION - A
SCALE 1:25



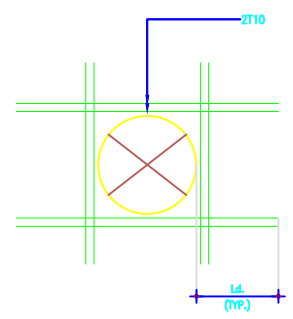
6
SECTION - B
SCALE 1:25



7
TYPICAL TRIMMING DETAILS OF OPENINGS IN RC WALLS
SCALE 1:50



8
TYPICAL TRIMMING DETAILS OF OPENINGS IN RC WALLS
SCALE 1:50



9
TYPICAL CUT OUT DETAIL FOR SLABS
SCALE 1:50

DRAWING TITLE: Integrated Settler Anaerobic baffle Filter - Detail
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.: BMGF/Phulera/SD-ISAF -20

NOTE:
All dimensions are in Meter

CLIENTS:
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SUB - CONSULTANT:
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Survey No.205, Opp.
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Kommaghatta Road,
Bandemath, Kengeri
Satellite Town, Bengaluru
Karnataka 560060

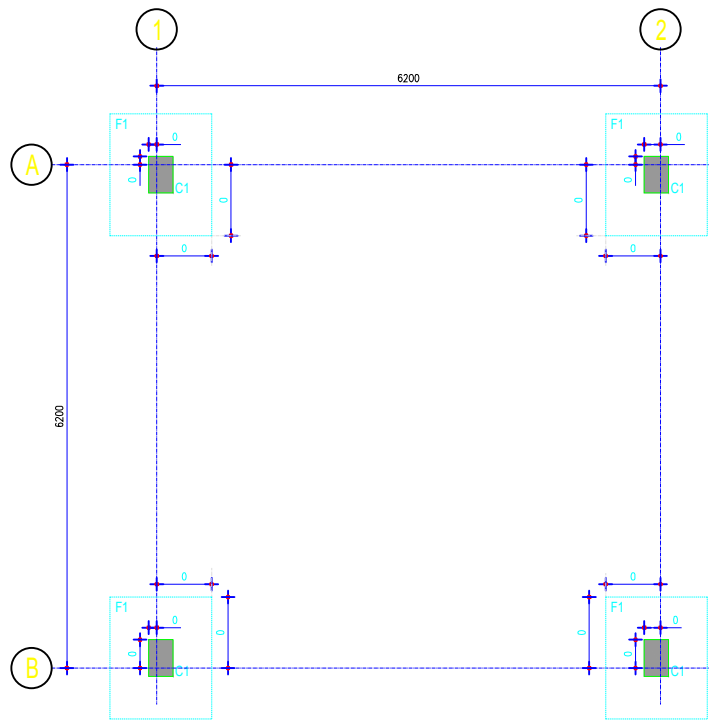
PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS

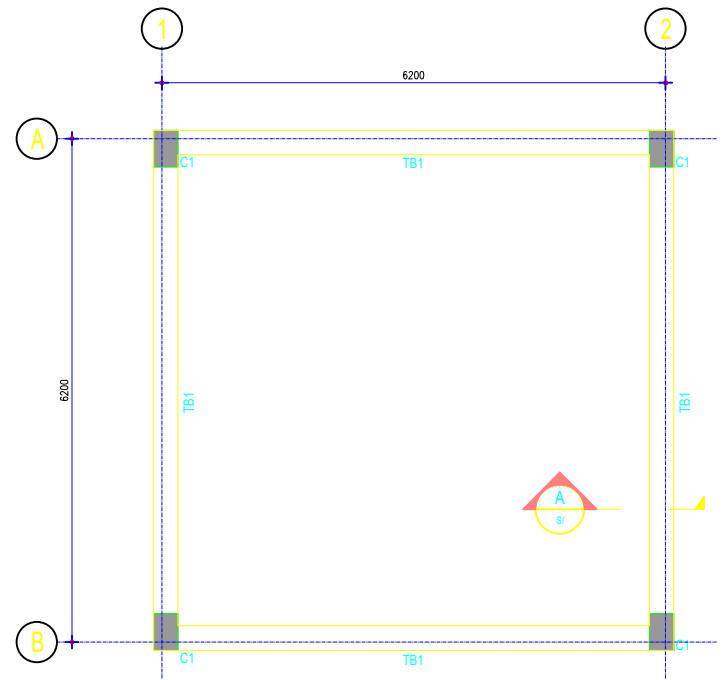
RUIDP

PE GLOBAL

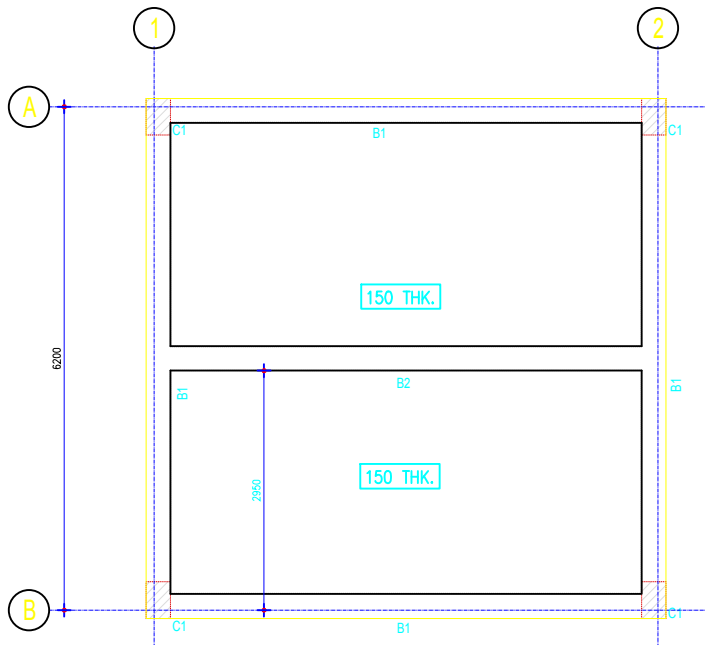
CDD Consortium for DEWATS Dissemination Society



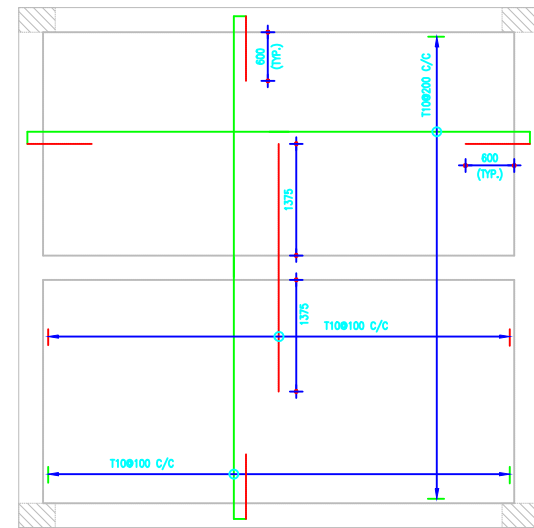
1 OPERATOR SHED FOUNDATION LAYOUT
SCALE 1:50



2 OPERATOR SHED PLINTH BEAM LAYOUT
SCALE 1:50



3 OPERATOR SHED ROOF BEAM LAYOUT
SCALE 1:50



4 OPERATOR SHED ROOF SLAB REINF. DETAILS
SCALE 1:50

DRAWING TITLE: Operator Room – Detail 1
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/SD-OR-37

NOTE:
All dimensions are in Meter

CLIENTS:
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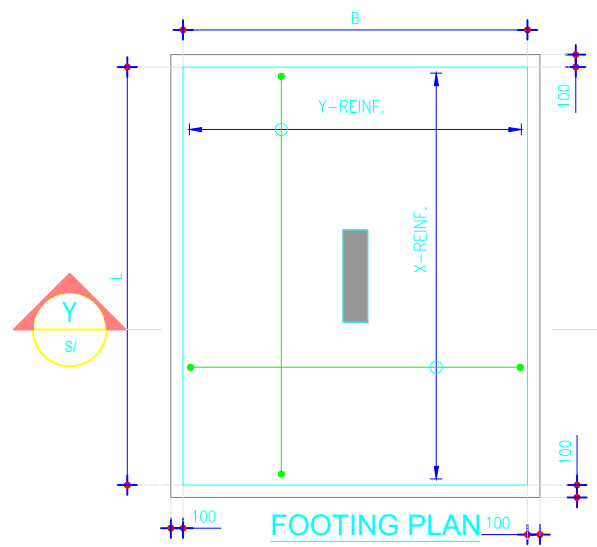
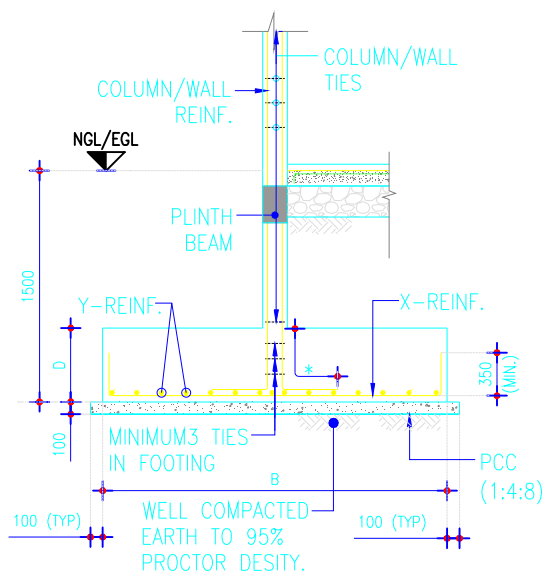
SUB - CONSULTANT:
CDD Society



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Satellite Town, Bengaluru
Karnataka 560060

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS

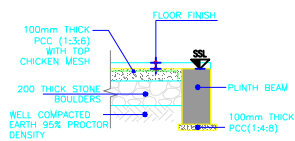


SECTION -Y

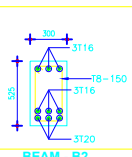
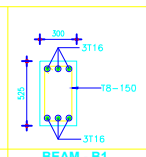
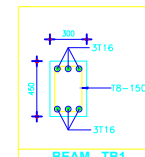
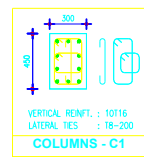
2 **TYPICAL FOOTING DETAIL**
SCALE 1:50

NOTE :

- INDICATES COLUMN REIN. LENGTH SHALL NOT BE LESS THAN DEVELOPMENT LENGTH (Ld) OR HORIZONTAL LENGTH MINIMUM 300 WHICH IS GREATER.



5 **SECTION A**
SCALE 1:25



SCHEDULE OF FOOTING

FOOTING REFERNCE	DIMENSIONS OF FOOTING			X - REINFORCEMENT		Y - REINFORCEMENT		REMARKS
	L	B	D	BOTTOM	TOP	BOTTOM	TOP	
F1	1950	1800	450	T12-200		T12-200		

DRAWING TITLE: Operator Room – Detail2
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.: BMGF/Phulera/SD-OR-38

NOTE:
All dimensions are in Meter

CLIENTS:
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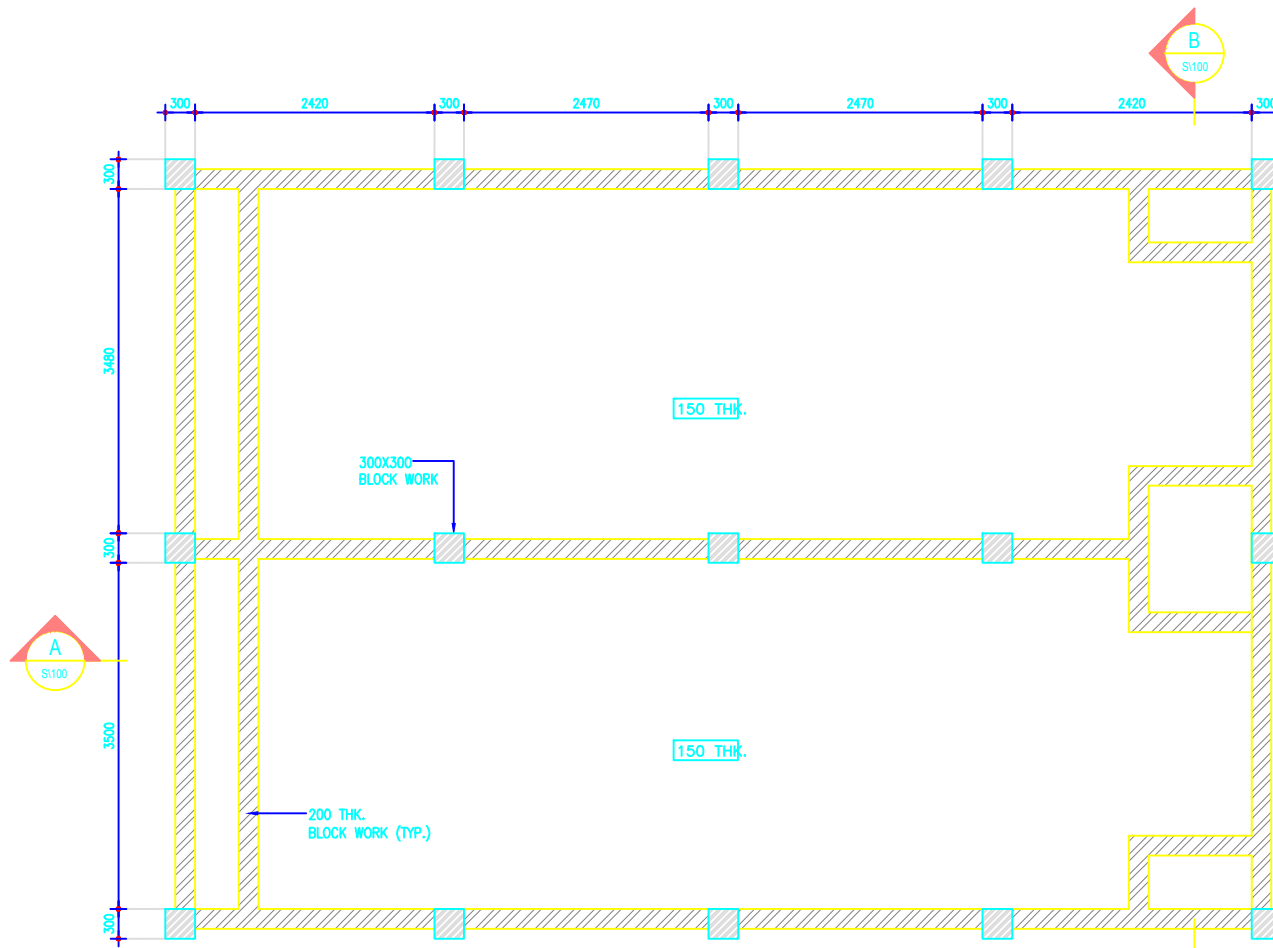


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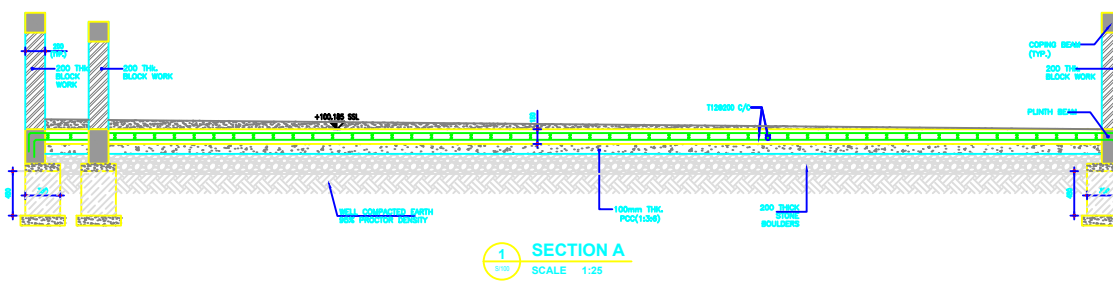


SUB - CONSULTANT:
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Bandemath, Kengeri
Satellite Town, Bengaluru
Karnataka 560060
Consortium for
DEWATS
Dissemination
Society

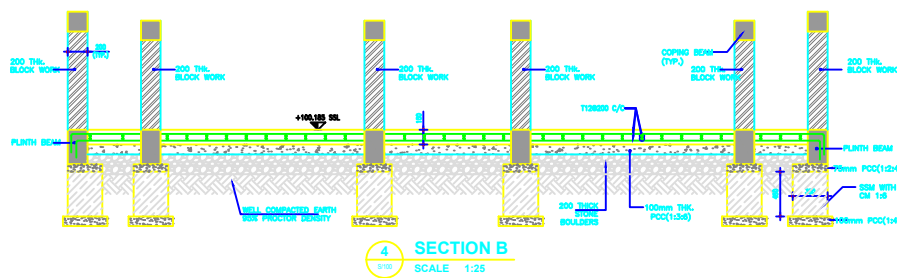




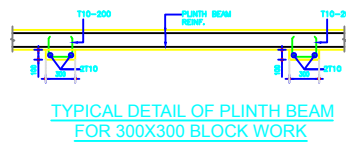
1
PLANTED GRAVEL FILTER TANK PLINTH LAYOUT
 SCALE 1:50



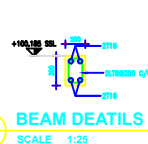
1
SECTION A
 SCALE 1:25



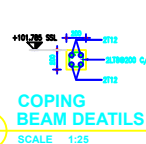
4
SECTION B
 SCALE 1:25



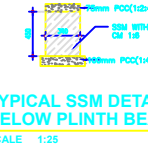
2
TYPICAL DETAIL OF PLINTH BEAM FOR 300X300 BLOCK WORK
 SCALE 1:25



2
BEAM DEATILS
 SCALE 1:25



3
COPING BEAM DEATILS
 SCALE 1:25



4
TYPICAL SSM DETAIL BELOW PLINTH BEAM
 SCALE 1:25

DRAWING TITLE: Planted Gravel Filter - Detail
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.: BMGF/
 Phulera/D-PGF-23

NOTE:
 All dimensions
 are in Meter

CLIENTS:
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 Development Project



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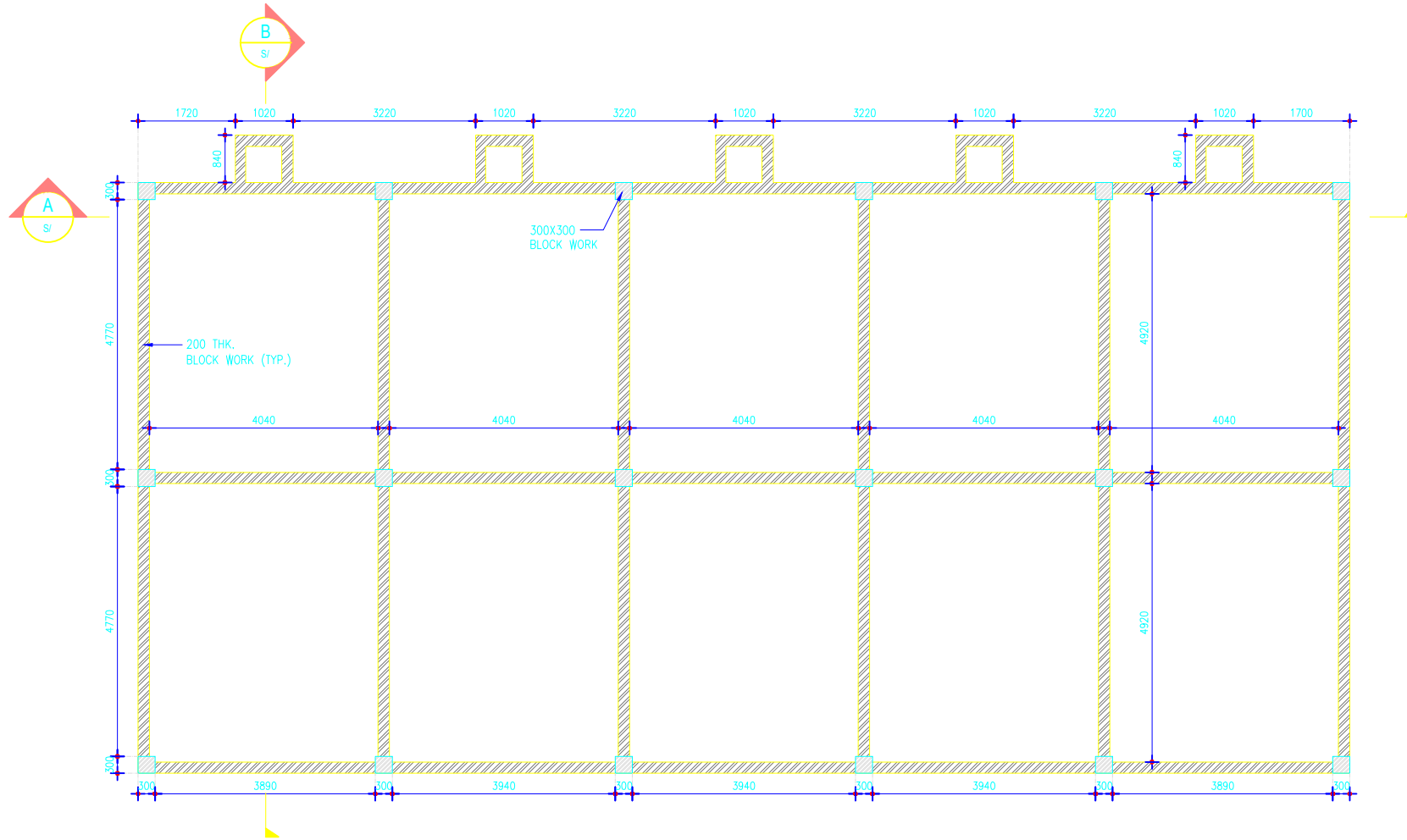
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 Karnataka 560060

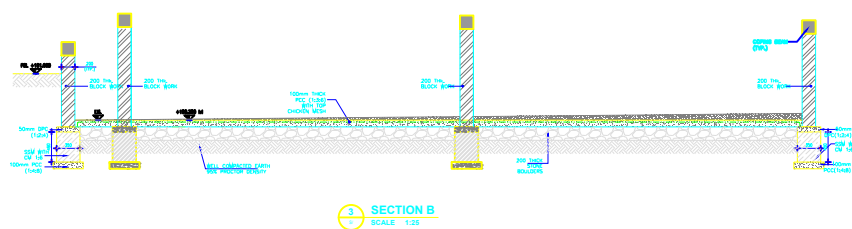
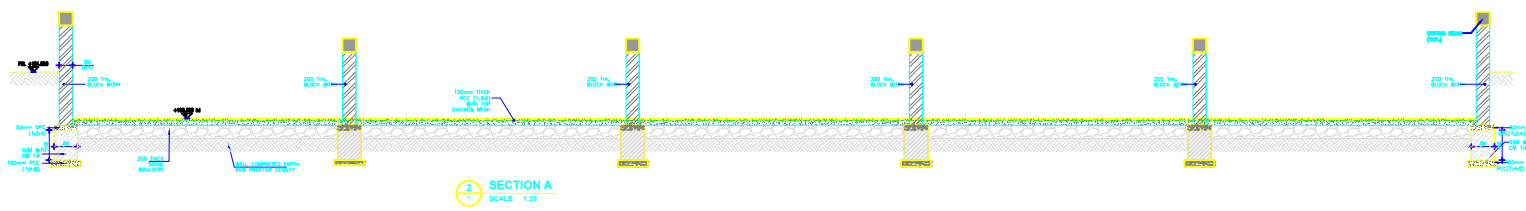


PROJECT:
 Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS



1
SLUDGE DRYING BED
BLOCK WALL LAYOUT
SCALE 1:75



4
COPING
BEAM DETAILS
SCALE 1:25

DRAWING TITLE: Sludge Drying Bed - Detail
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/SD-SDB -16

NOTE:
All dimensions
are in Meter

CLIENTS:
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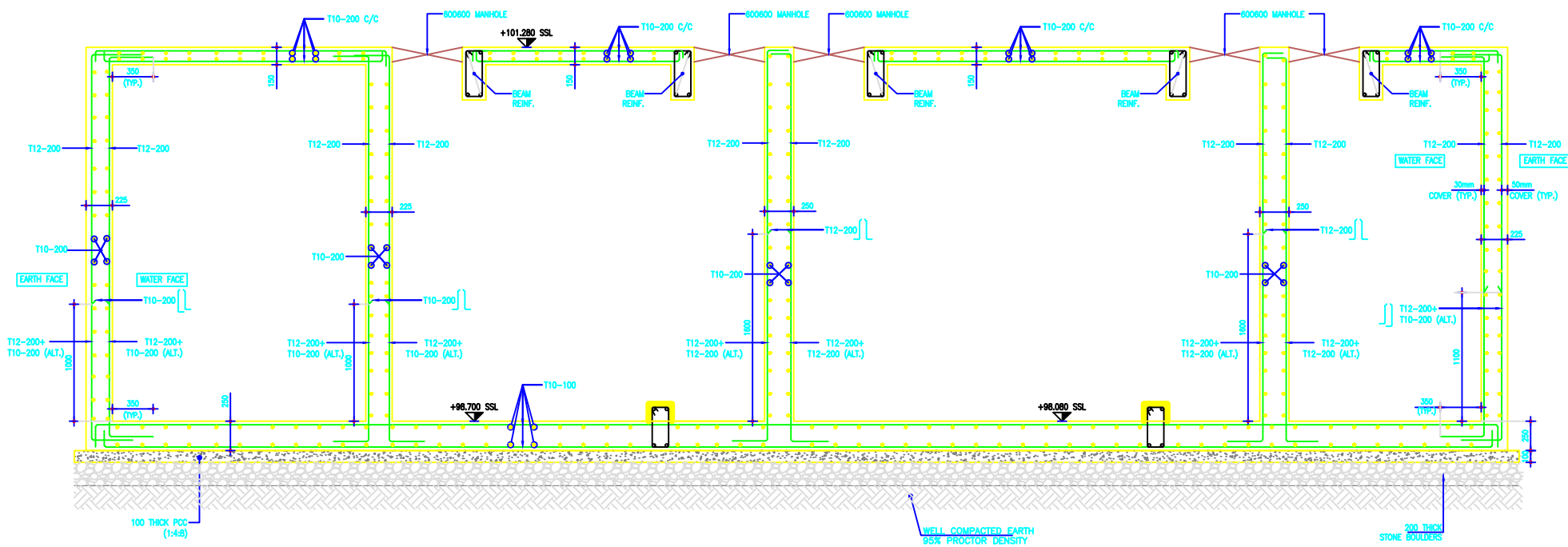
SUB - CONSULTANT:
CDD Society



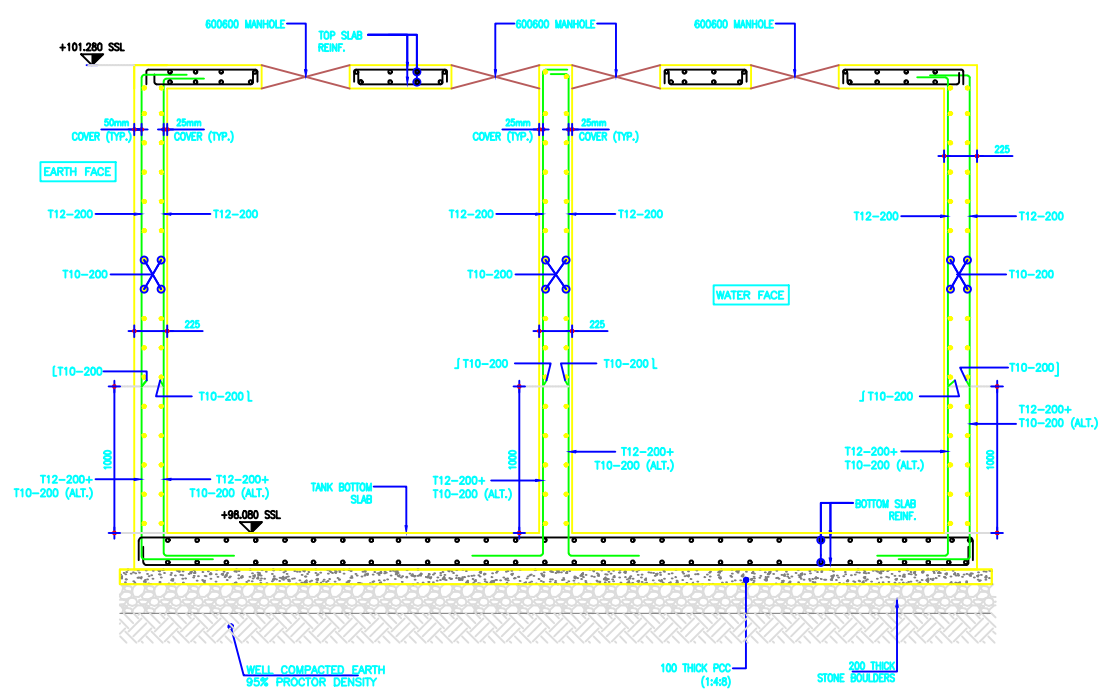
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Karnataka 560060

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS



3 SECTION - A
SCALE 1:25



4 SECTION - B
SCALE 1:25

DRAWING TITLE: Stabilisation Reactor – Detail1
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SR -10

NOTE:
All dimensions are in Meter

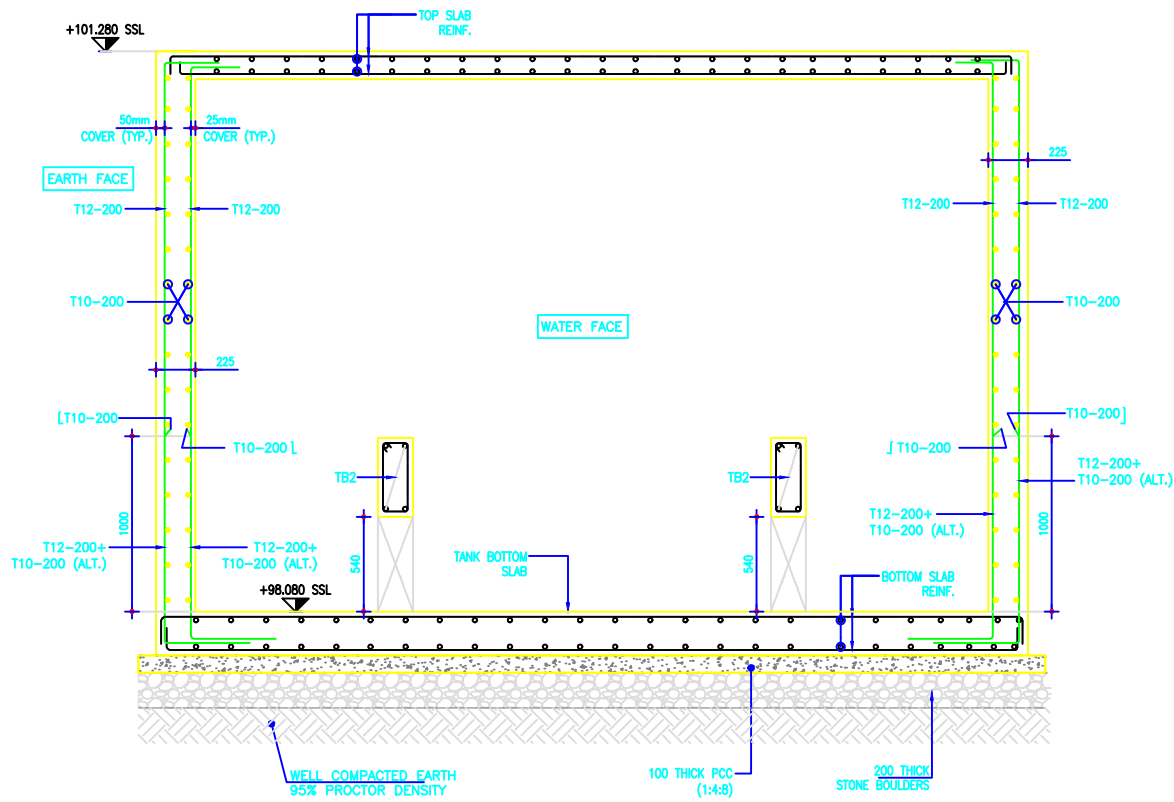
PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS

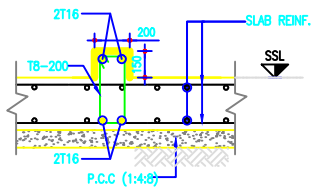
CLIENTS:
Rajasthan Urban Infrastructure Development Project
RUIDP

CONSULTANT:
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Tel. +91 11 4075 5900
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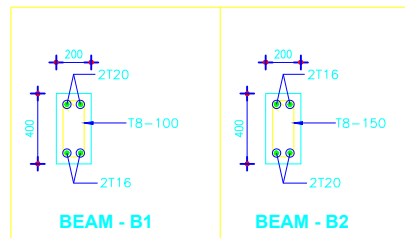
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Karnataka 560060
**Consortium for DEWATS
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5 SECTION - C
SCALE 1:25

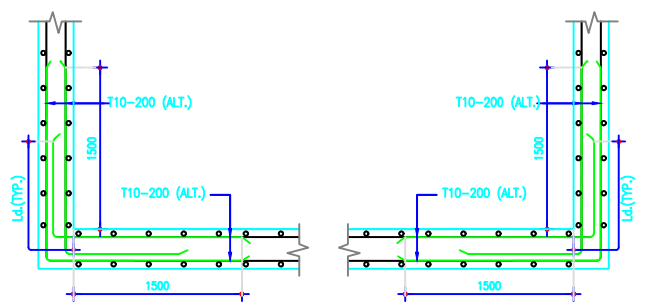


3 TYPICAL SECTION OF TB1
SCALE 1:25

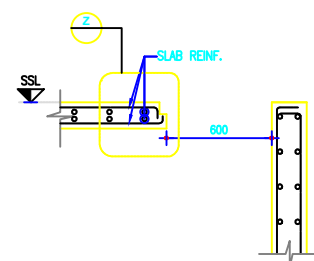


BEAM - B1

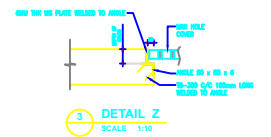
BEAM - B2



1 TYPICAL DETAIL SHOWING ADDITIONAL REINF. @ ALL CORNERS
SCALE 1:25



2 TYPICAL MAN HOLE DETAIL
SCALE 1:25



DETAIL Z
SCALE 1:10

DRAWING TITLE: Stabilisation Reactor – Detail2
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SR -11

SCALE: NTS

NOTE:
All dimensions are in Meter

CLIENTS:
Rajasthan Urban Infrastructure Development Project



CONSULTANT:
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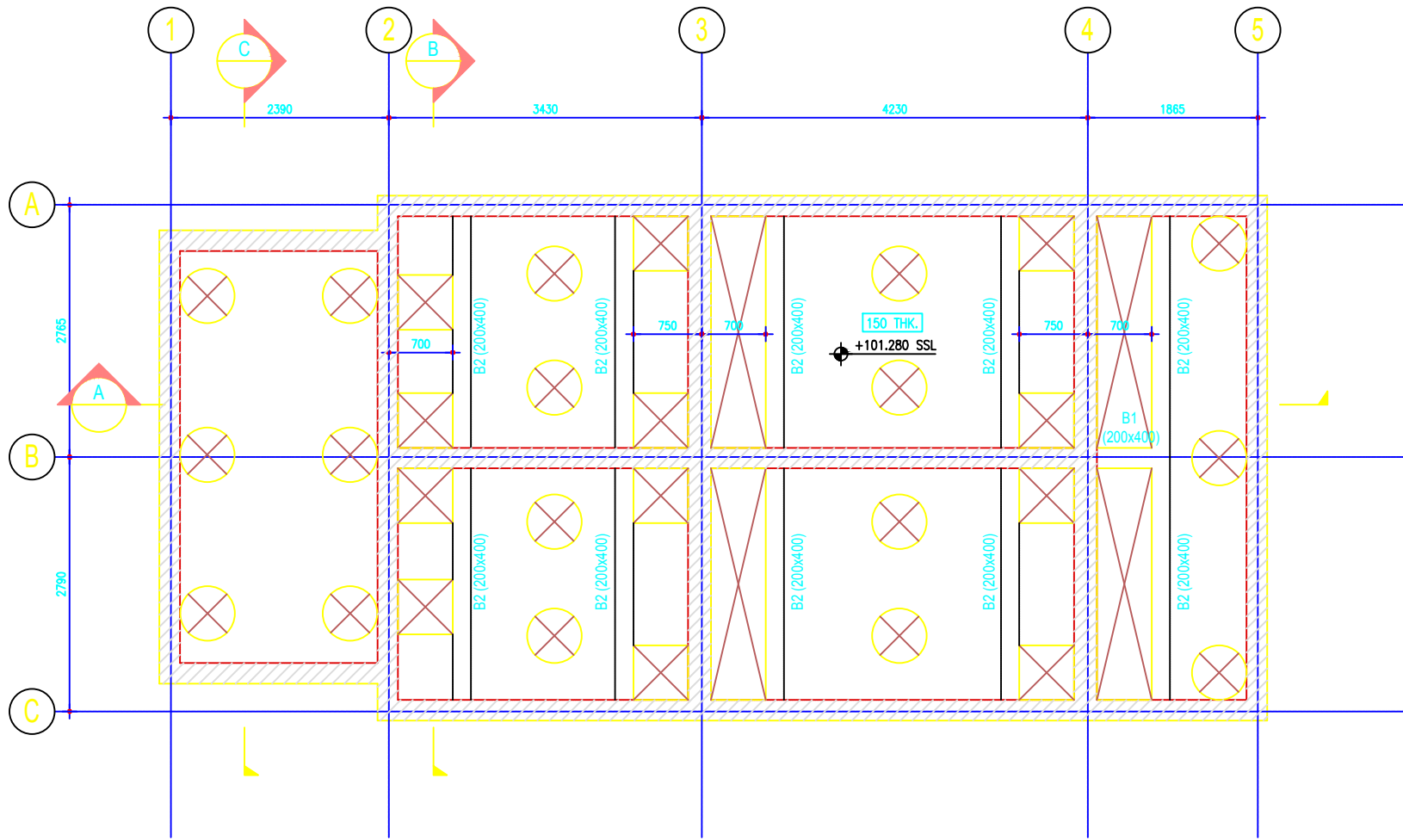
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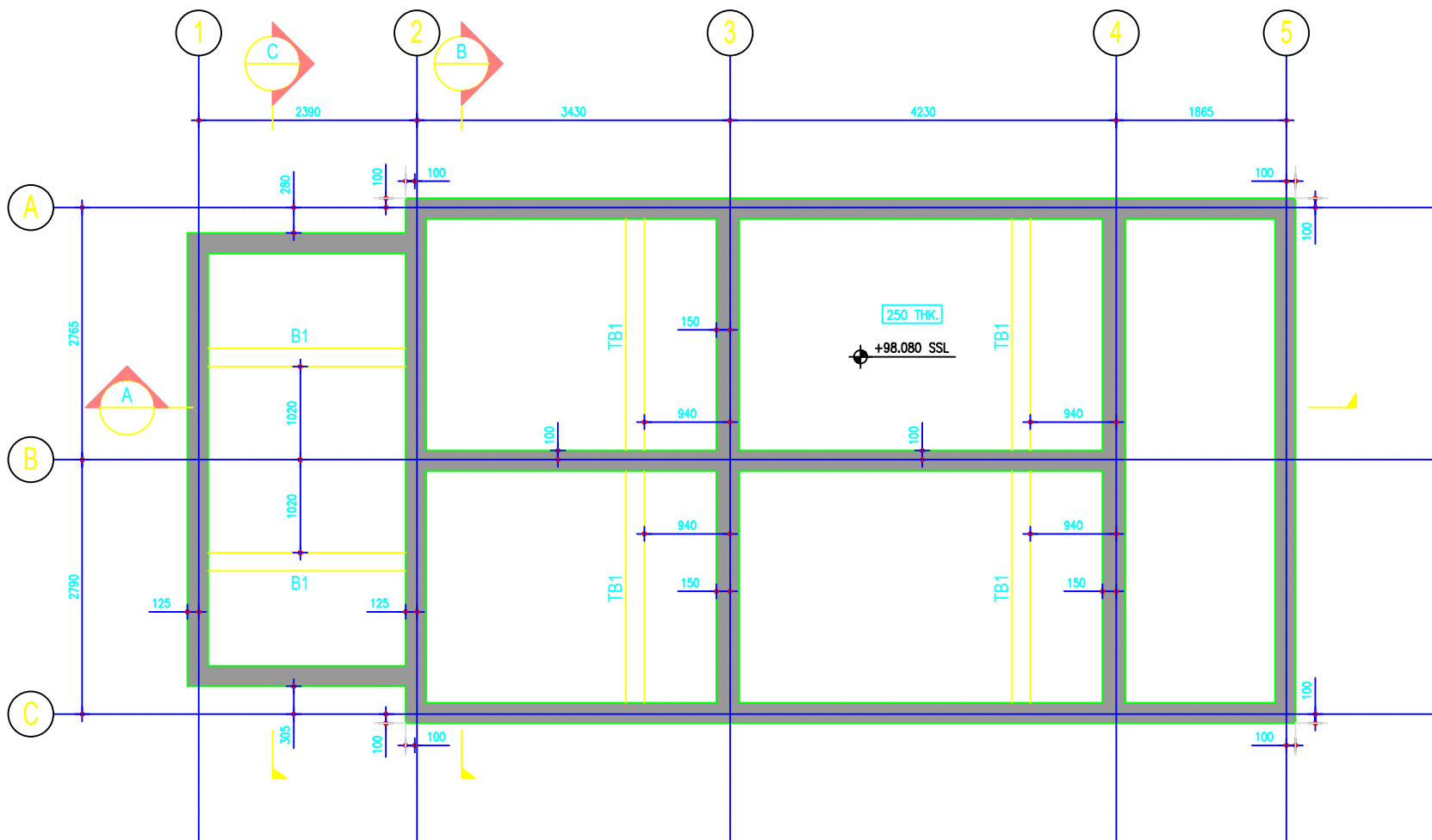


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2 PLAN FOR TOP SLAB OF STABILIZATION REACTOR
SCALE 1:50

NOTE:
1. BASE SLABS SHALL BE 150 thk. (UNO)
2. BASE SLABS LVL. SHALL BE +101.280 SSL (UNO)



1 PLAN FOR BOTTOM SLAB OF STABILIZATION REACTOR
SCALE 1:50

NOTE:
1. BASE SLABS SHALL BE 250 thk. (UNO)
2. BASE SLABS LVL. SHALL BE +98.080 SSL (UNO)

DRAWING TITLE: Stabilisation Reactor - Detail 3
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SR -12

SCALE: NTS

NOTE:
All dimensions are in Meter

CLIENTS:
Rajasthan Urban Infrastructure Development Project

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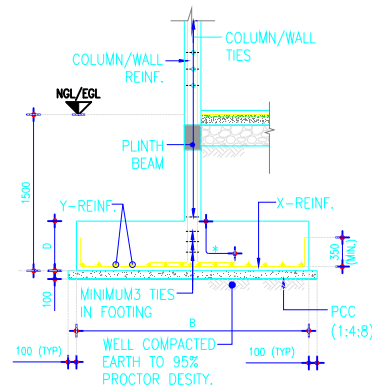
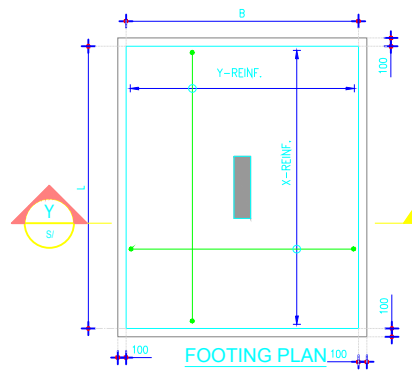
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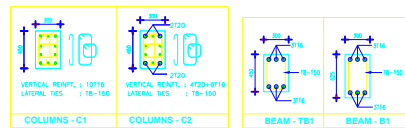
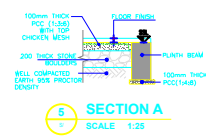
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4 TYPICAL FOOTING DETAIL
SCALE 1:50



NOTE:
1. INDICATES COLUMN REIN. LENGTH SHALL NOT BE LESS THAN DEVELOPMENT LENGTH (Ld) OR HORIZONTAL LENGTH MINIMUM 300 WHICH IS GREATER.

SCHEDULE OF FOOTING

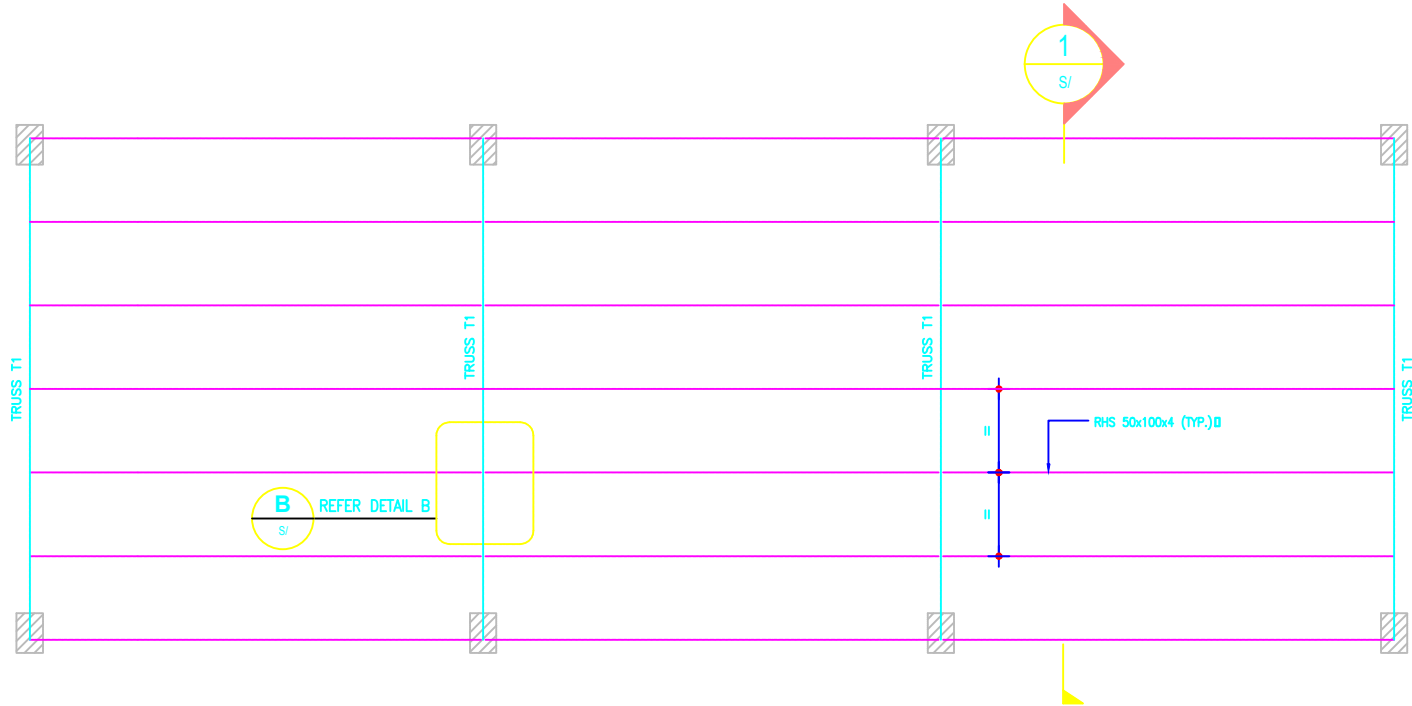
FOOTING REFERENCE	DIMENSIONS OF FOOTING			X - REINFORCEMENT		Y - REINFORCEMENT		REMARKS
	L	B	D	BOTTOM	TOP	BOTTOM	TOP	
F1	2050	1900	450	T12-200		T12-200		
F2	2250	2100	450	T12-150		T12-150		

- COVER: BASESLAB-50mm, RC WALLS-50/30mm, TOP SLAB-25mm, BEAM-30mm.
 - ALL REINFORCEMENT SHALL BE HIGH YIELD STRENGTH DEFORMED BARS CONFORMING TO IS:1786. REINFORCEMENT SHALL BE OF GRADE Fe-500 ONLY.
 - DEVELOPMENT LENGTH (Ld) OF BARS SHALL BE
- | GRADE OF CONCRETE | M20 | M25 | M30 | M35 | M40 & ABOVE |
|-------------------|-----|-----|-----|-----|-------------|
| Fe-500 | 57φ | 49φ | 46φ | 41φ | 36φ |
| Fe-415 | 47φ | 41φ | 38φ | 34φ | 30φ |
- WHERE "φ" IS THE DIAMETER OF THE BAR.
- MORE THAN 50% OF THE BARS SHALL NOT BE SPLICED AT ANY SECTION.
 - LAP SPLICES SHALL BE CONSIDERED AS STAGGERED IF CENTER TO CENTER DISTANCE OF THE SPLICES IS NOT LESS THAN 1.30 TIMES THE LAP LENGTH.
 - GRADE OF CONCRETE M30 WITH MINIMUM CEMENT CONTENT 330 kg/m³
 - AS PER SOIL REPORT 118-17-18 SBC IS CONSIDERED AS 90 kN/m² AT 1.5m FROM EGL.
 - FILLING SHALL BE DONE USING SAND AND GRAVEL STRATUM COMPACTED WITH 98% OF MDD. UPTO 2.5m BELOW EXISTING GROUND LEVEL, IT IS RECOMMENDED TO REPLACE THIS TOP STRATA BY THE SAME FILLING MATERIAL. WATER TABLE WAS ENCOUNTERED AT SITE AT 2.5m BELOW EGL.
 - THE FOUNDATION ARE ASSUMED TO REST ON REFUSAL STRATA/HARD DISINTEGRATED ROCK BELOW THE BASE SLAB LEVEL.
 - WATER PROOFING TO BE DONE AS PER SPECIALIZED VENDOR DETAILS AND TO BE APPROVED BY ENGINEER IN CHARGE.
 - FIRE TRUCK MOVEMENT IS NOT CONSIDERED IN THE DESIGN OF TOP SLAB AND BASE SLAB. LANDSCAPE FILLING IS NOT CONSIDERED IN DESIGN.
 - MASS EXCAVATION SHALL BE DONE TILL BASE SLAB BOTTOM LVL.
 - WELL COMPACTED EARTH TO ACHIEVE MINIMUM 95% PROCTOR DENSITY. TEST TO BE DONE FOR PROCTOR COMPACTION AND TO BE APPROVED BY ENGINEER IN CHARGE.
 - ADDITIONAL REINFORCEMENT TO BE PROVIDED AROUND THE CUTOUTS. REFER STANDARD DETAILS.

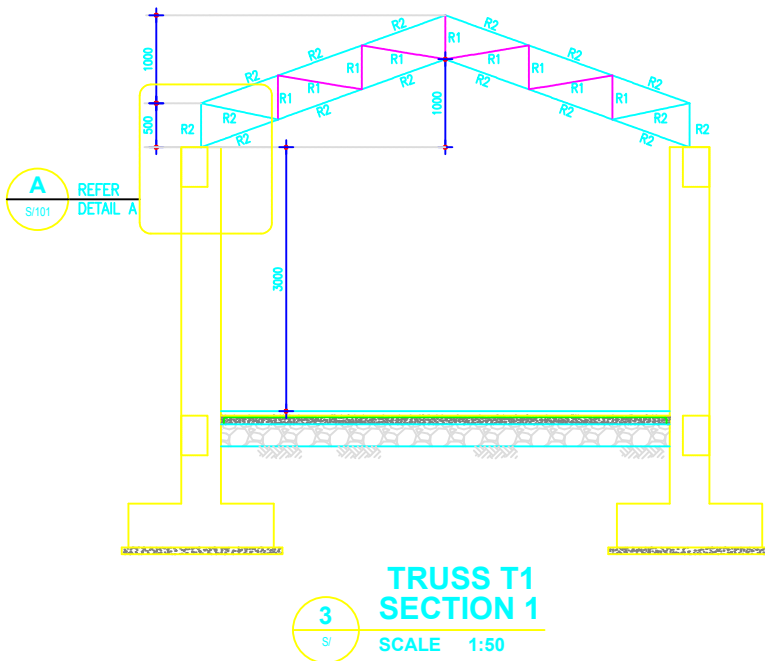
- LIQUID RETAINING STRUCTURES**
- TANKS SHALL BE TESTED FOR WATER TIGHTNESS AS PER IS : 3370 PART-1.
 - ALL STRUCTURAL STEEL EMBEDMENTS LADDERS ETC , SHALL BE PROVIDED WITH 2 COATS ANTICORROSIVE PAINT OVER 2 COATS OF PRIMER.
 - BACKFILLING AROUND THE WATER TANK SHALL BE DONE AFTER THE TESTING OF THE TANK IS COMPLETE WITH THE APPROVAL OF THE ENGINEER - IN - CHARGE.
 - CARE SHALL BE TAKEN AT ALL TIMES TO ENSURE THAT WATER BARS ARE NOT PERFORATED OR DAMAGED IN ANY WAY AND CONCRETE SHALL BE CAREFULLY PLACED AND COMPACTED AROUND THE WATER BAR TO ENSURE DENSE VOID-FREE IMPERVIOUS CONCRETE.
 - ANY BOLT OR FASTENING EMBEDDED IN OR PASSING THROUGH CONCRETE SHALL BE TO THE APPROVAL OF THE ENGINEER - IN - CHARGE AND SHALL NOT IMPAIR THE WATERTIGHTNESS OF THE STRUCTURE.
 - ALL PIPE SLEEVES SHALL BE PROVIDED WITH PUDDLE FLANGES. THE CUTTING OR DRILLING OF HOLES IN TANKS IS STRICTLY PROHIBITED.

NOTE:
1. TOP 1.5m OF EARTH TO BE EXCAVATED.
2. TOP 1m OF SOIL CANNOT BE USED FOR BACKFILLING.

DRAWING TITLE: Sludge Store House – Detail2 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan	DRAWING NO.: BMGF/Phulera/SD-SSH-31	NOTE: All dimensions are in Meter	CLIENTS: Rajasthan Urban Infrastructure Development Project 	CONSULTANT: IPE Global Limited <small>IPE Global House B-84, Defence Colony, New Delhi - 110 024 Tel. +91 11 4075 5900 ipe@ipeglobal.com www.ipeglobal.com</small>	SUB - CONSULTANT: CDD Society <small>Survey No.205 ,Opp. Beedi Workers Colony, Kommaghatta Road, Bandemath, Kengeri Satellite Town, Bengaluru Karnataka 560060</small>
PROJECT: Capacity Building Support for Innovative Sanitation Solution for Rajasthan	SCALE: NTS				



1 SLUDGE STORAGE HOUSE ROOF TRUSS LAYOUT
SCALE 1:75



3 TRUSS T1 SECTION 1
SCALE 1:50

MEMBER SIZES SCHEDULE

MEMBER REF.	SECTION	REMARKS
R1	SHS 25x25x2.6	
R2	SHS 49x49x3.6	

NOTE :

1. TRUSS TOP CHORD TO DIAGONAL/VERTICAL ARE WELDED CONNECTION.
2. PROVIDE 4mm FILLET WELD AL-AROUND U.N.O.
3. ALL BOLT SHALL BE 4.6 Gr U.N.O.
4. ALL STEEL SECTION SHALL BE E-250 GRADE U.N.O.
5. ALL RHS/SHS SHALL BE OF YIELD STRESS Fy240.



DRAWING TITLE: Sludge Store House – Roof truss
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/SD-SSH-29

NOTE:
All dimensions
are in Meter

CLIENTS:
Rajasthan Urban Infrastructure
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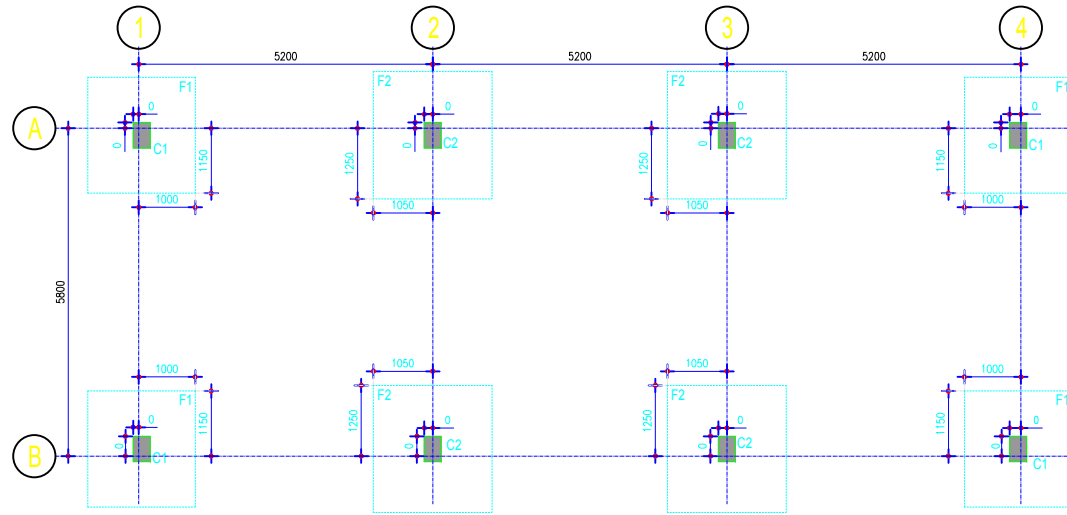
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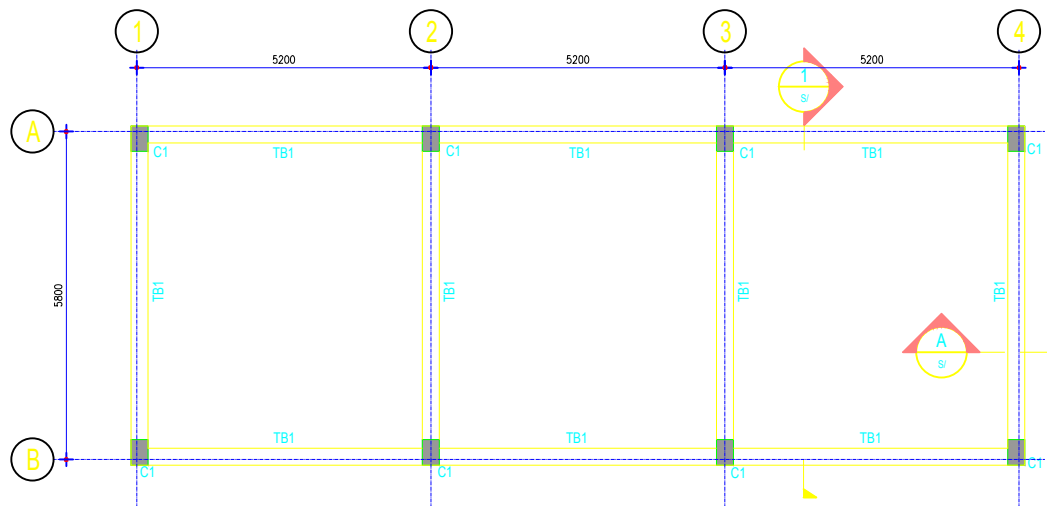
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PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

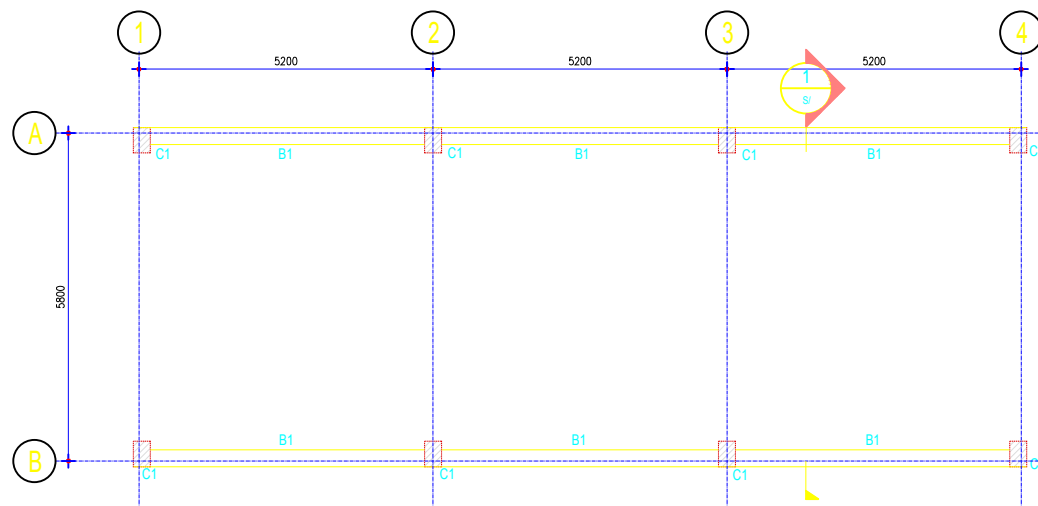
SCALE: NTS



1 SLUDGE STORAGE HOUSE FOUNDATION LAYOUT
SCALE 1:75



2 SLUDGE STORAGE HOUSE PLINTH BEAM LAYOUT
SCALE 1:75



3 SLUDGE STORAGE HOUSE ROOF BEAM LAYOUT
SCALE 1:75

DRAWING TITLE: Sludge Store House – Detail1
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
BMGF/Phulera/SD-SSH-30

SCALE: NTS

NOTE:
All dimensions are in Meter

CLIENTS:
Rajasthan Urban Infrastructure Development Project



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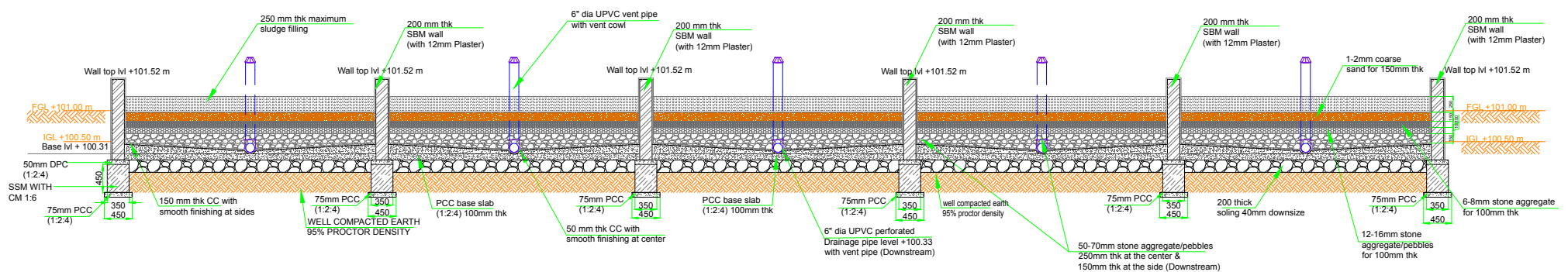
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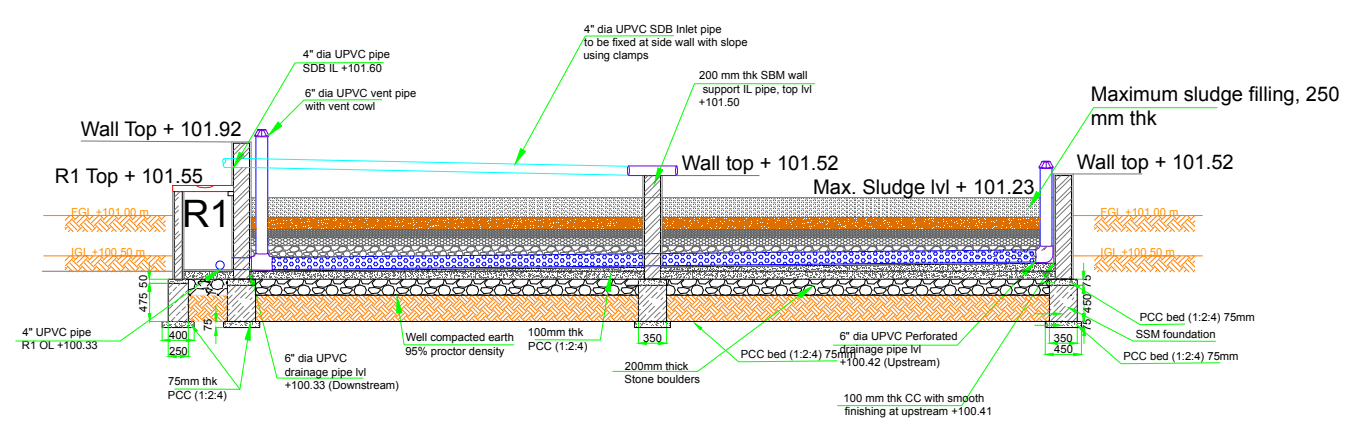
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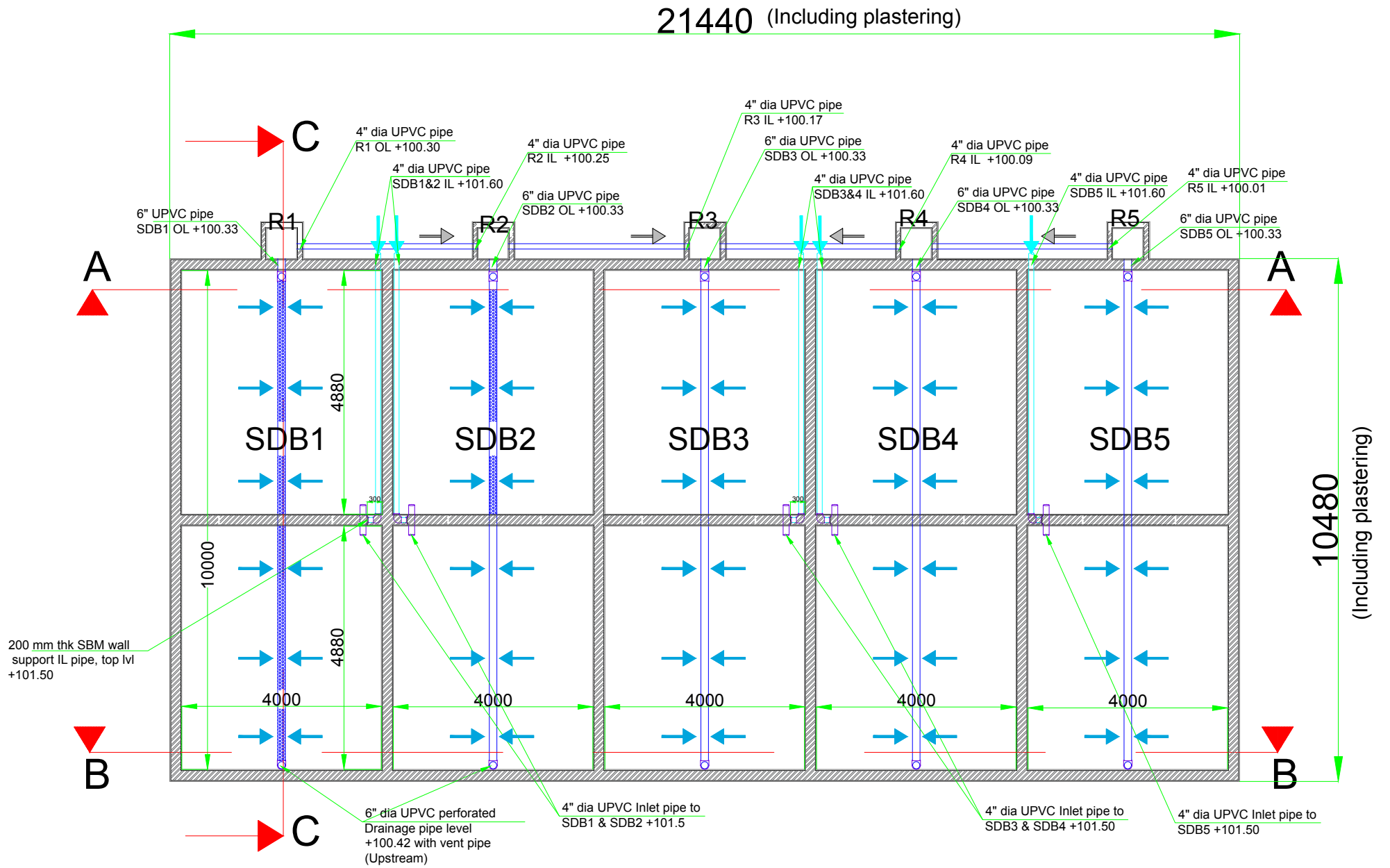


LONGITUDINAL SECTION @ A-A (DOWNSTREAM)



CROSS SECTION @ C-C

<p>DRAWING TITLE: Sludge Drying Bed - Section Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan</p>	<p>DRAWING NO.: BMGF/Phulera/D-SDB -14</p>	<p>NOTE: All dimensions are in Meter</p>	<p>CLIENTS: Rajasthan Urban Infrastructure Development Project</p>	<p>CONSULTANT: IPE Global Limited</p> <p>IPE Global House B-84, Defence Colony, New Delhi - 110 024 Tel. +91 11 4075 5900 ipe@ipeglobal.com www.ipeglobal.com</p>	<p>SUB - CONSULTANT: CDD Society</p> <p>Survey No.205 ,Opp. Beedi Workers Colony, Kommaghatta Road, Bansdohra, Kengeri Satellite Town, Bengaluru Karnataka 560060</p>
<p>PROJECT: Capacity Building Support for Innovative Sanitation Solution for Rajasthan</p>	<p>SCALE: NTS</p>				



**SECTIONAL PLAN OF SLUDGE DRYING BED
(SDB1 to SDB5)**

DRAWING TITLE: Sludge Drying Bed - Plan
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SDB -13

NOTE:
All dimensions
are in Meter

CLIENTS:
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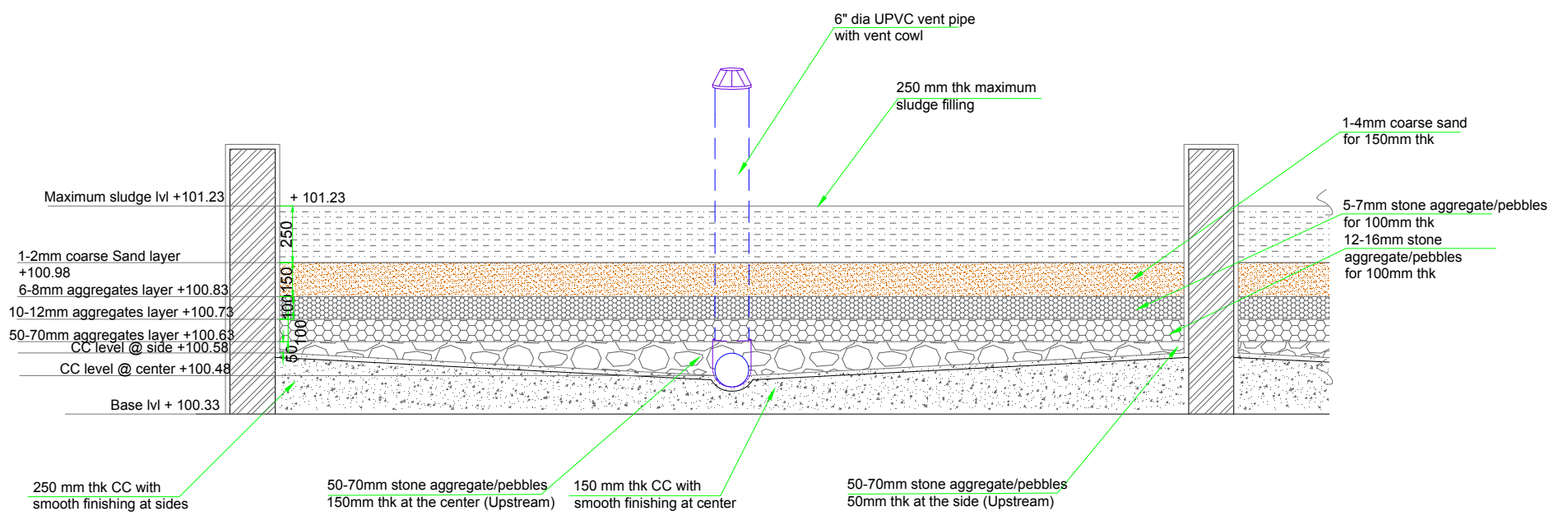
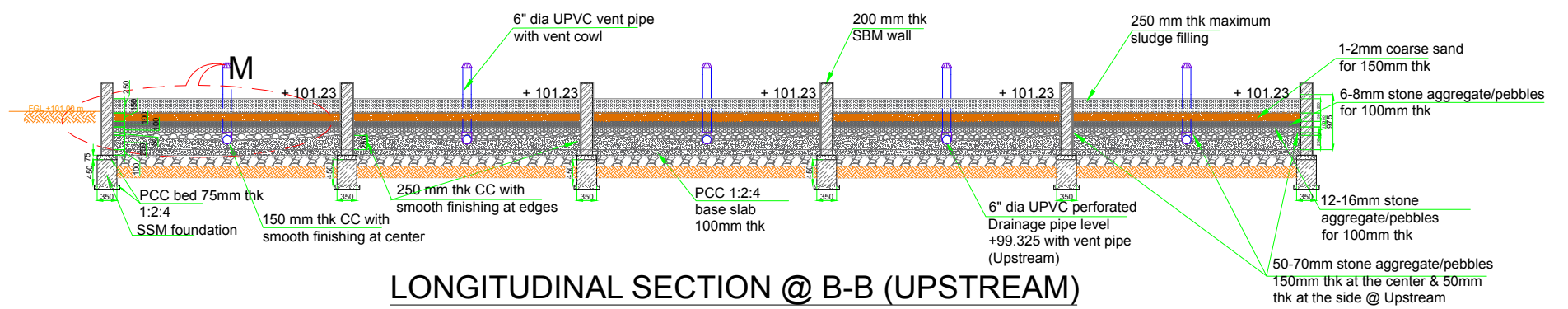
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Karnataka 560060

PROJECT:
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SCALE: NTS





DRAWING TITLE: Sludge Drying Bed – Drainage System
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SDB -15

NOTE:
All dimensions are in Meter

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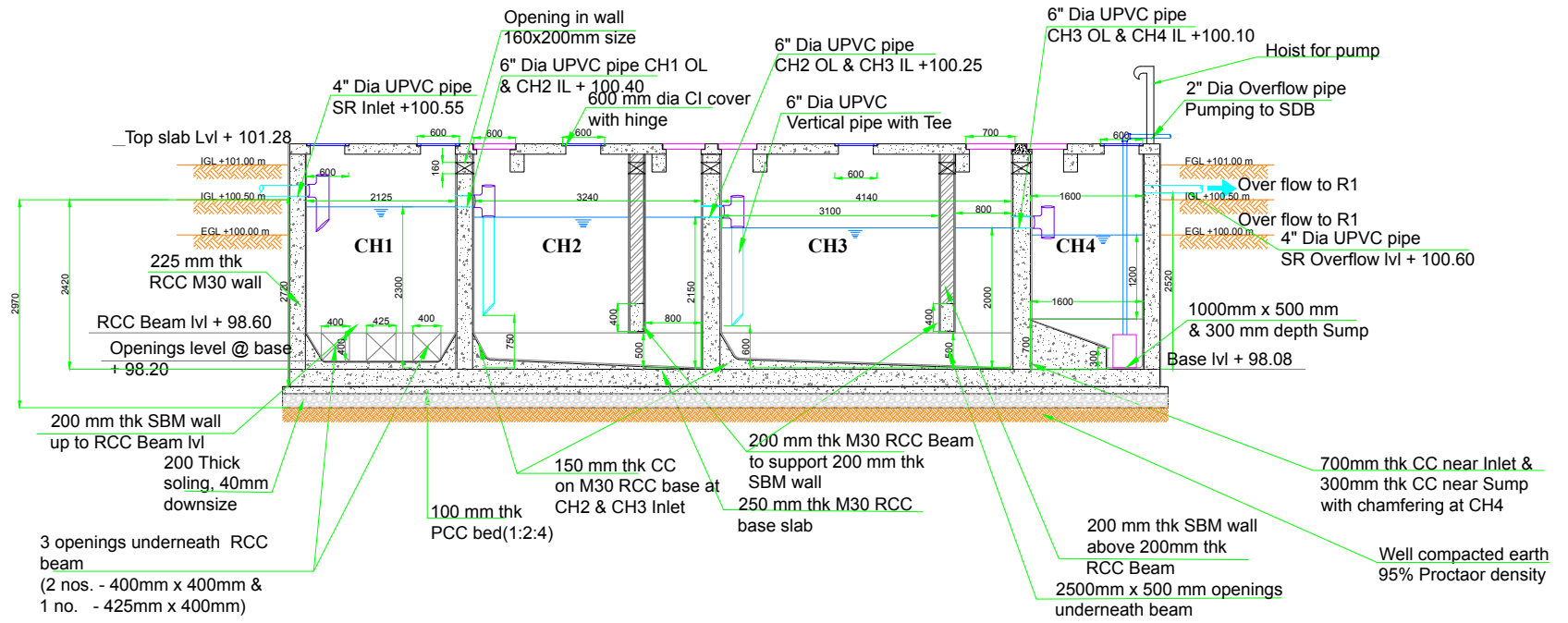
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Karnataka 560060

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

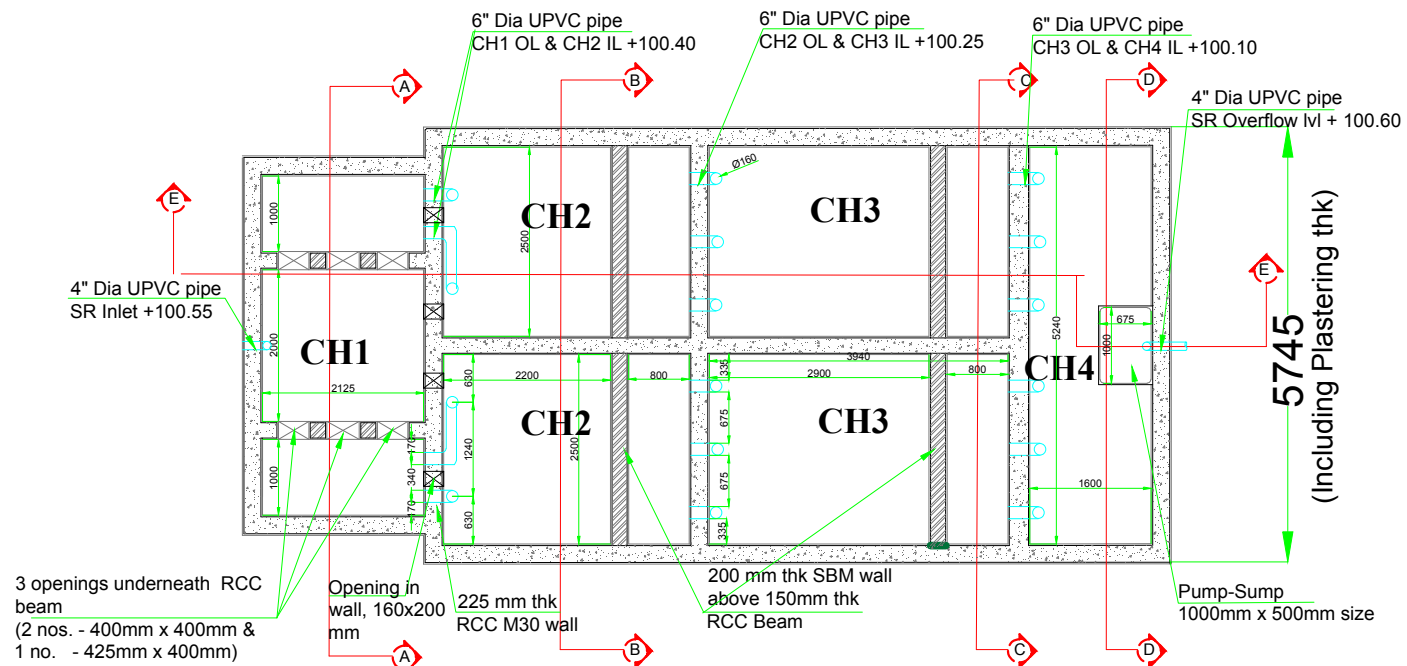
SCALE: NTS





LONGITUDINAL SECTION @ E-E

(Including Plastering thk)



SECTIONAL PLAN OF STABILISATION REACTOR

DRAWING TITLE: Stabilisation Reactor
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.: BMGF/Phulera/D-SR-6

NOTE:
All dimensions are in Meter

CLIENTS:
Rajasthan Urban Infrastructure Development Project

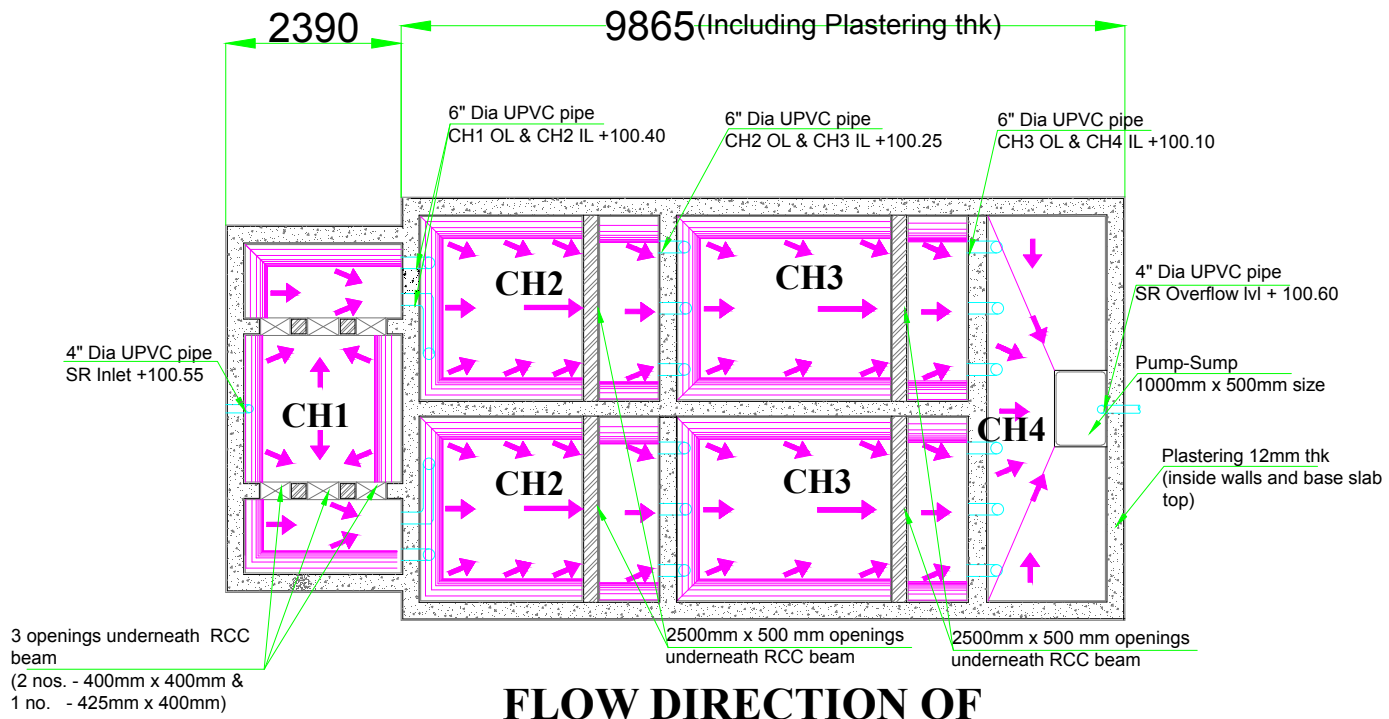
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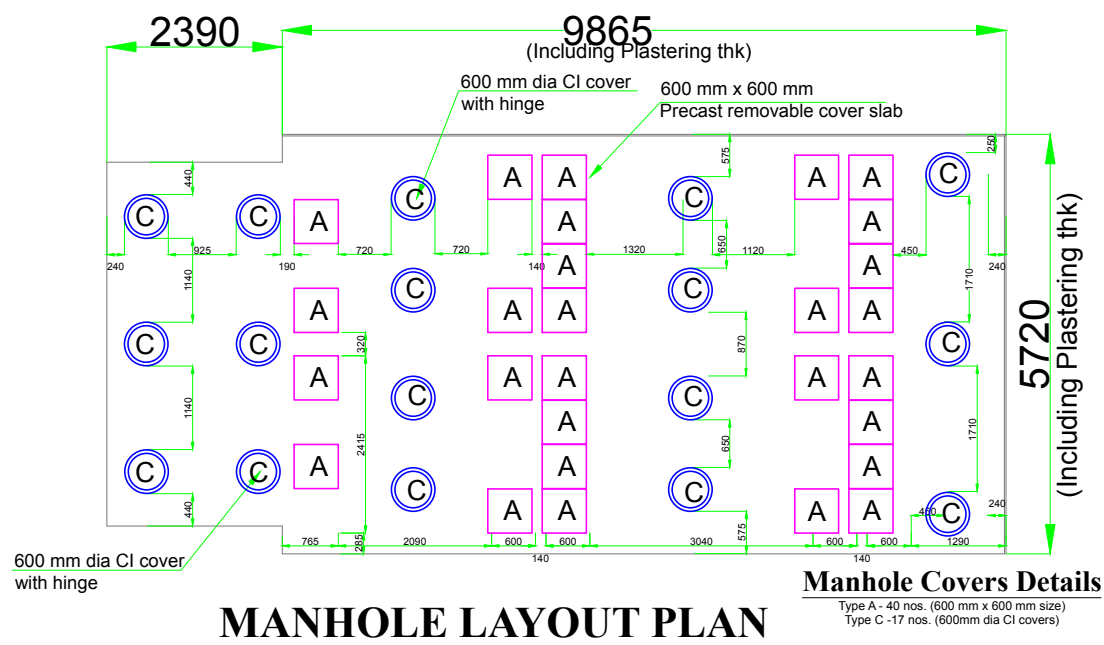
PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS





FLOW DIRECTION OF STABILISATION REACTOR



MANHOLE LAYOUT PLAN

Manhole Covers Details
 Type A - 40 nos. (600 mm x 600 mm size)
 Type C - 17 nos. (600mm dia CI covers)

DRAWING TITLE: Stabilisation Recator - Flow
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
 Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
 BMGF/Phulera/D-SR -7

SCALE: NTS

NOTE:
 All dimensions are in Meter

CLIENTS:
 Rajasthan Urban Infrastructure Development Project

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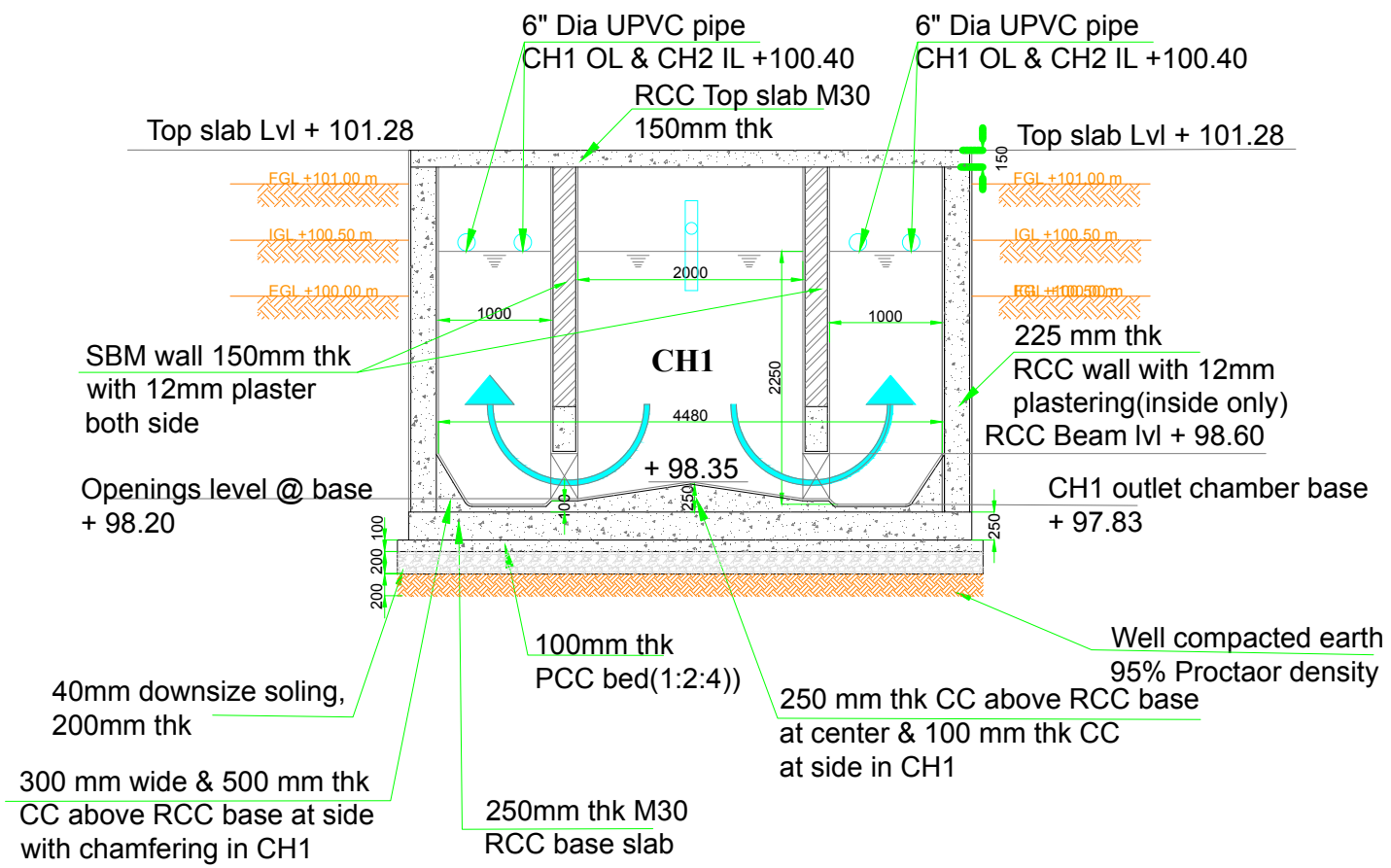
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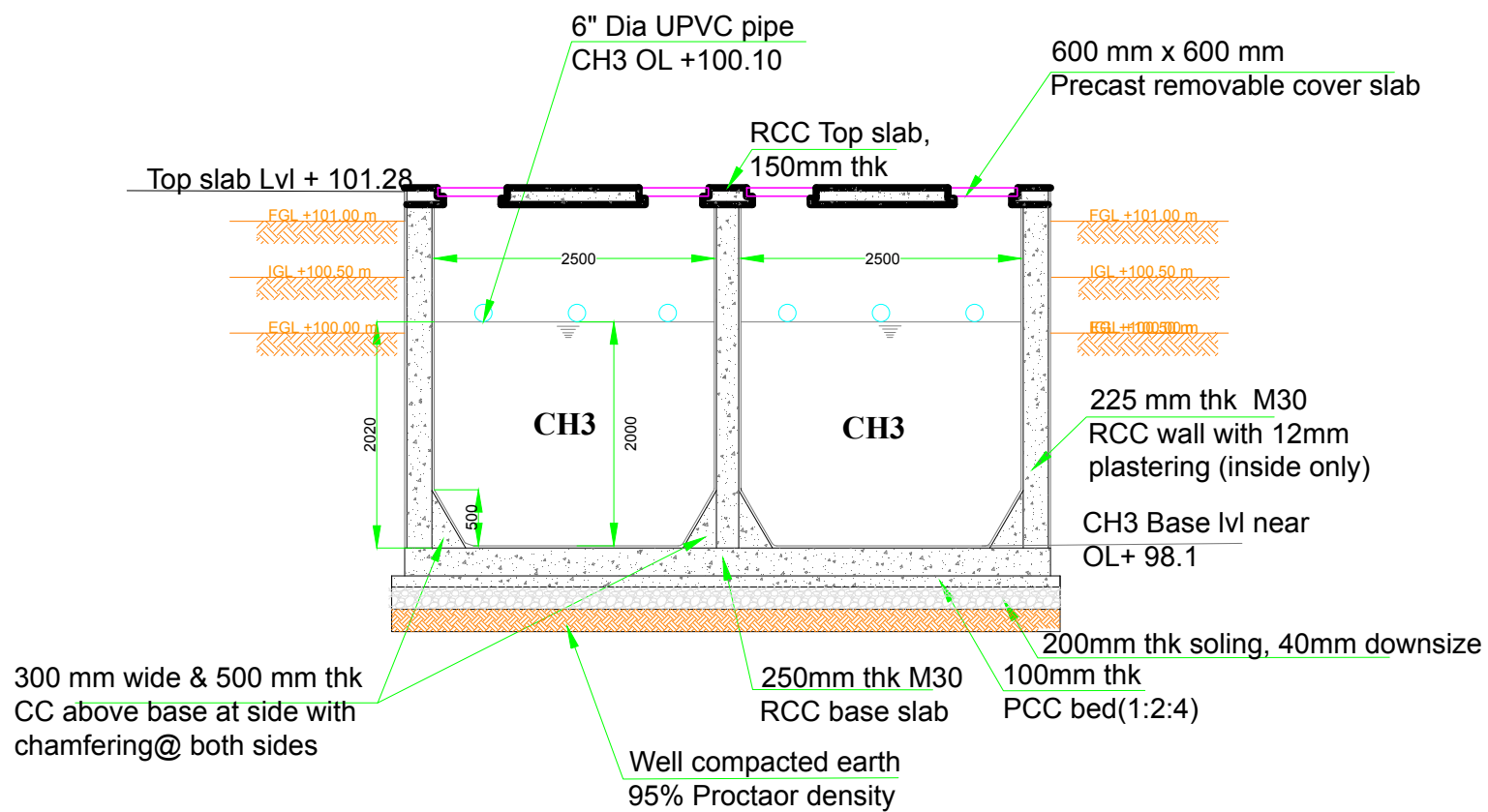
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CROSS SECTION @ A-A



CROSS SECTION @ C-C

DRAWING TITLE: Stabilisation Recator – Cross Section
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SR -8

NOTE:

All dimensions
are in Meter

CLIENTS:
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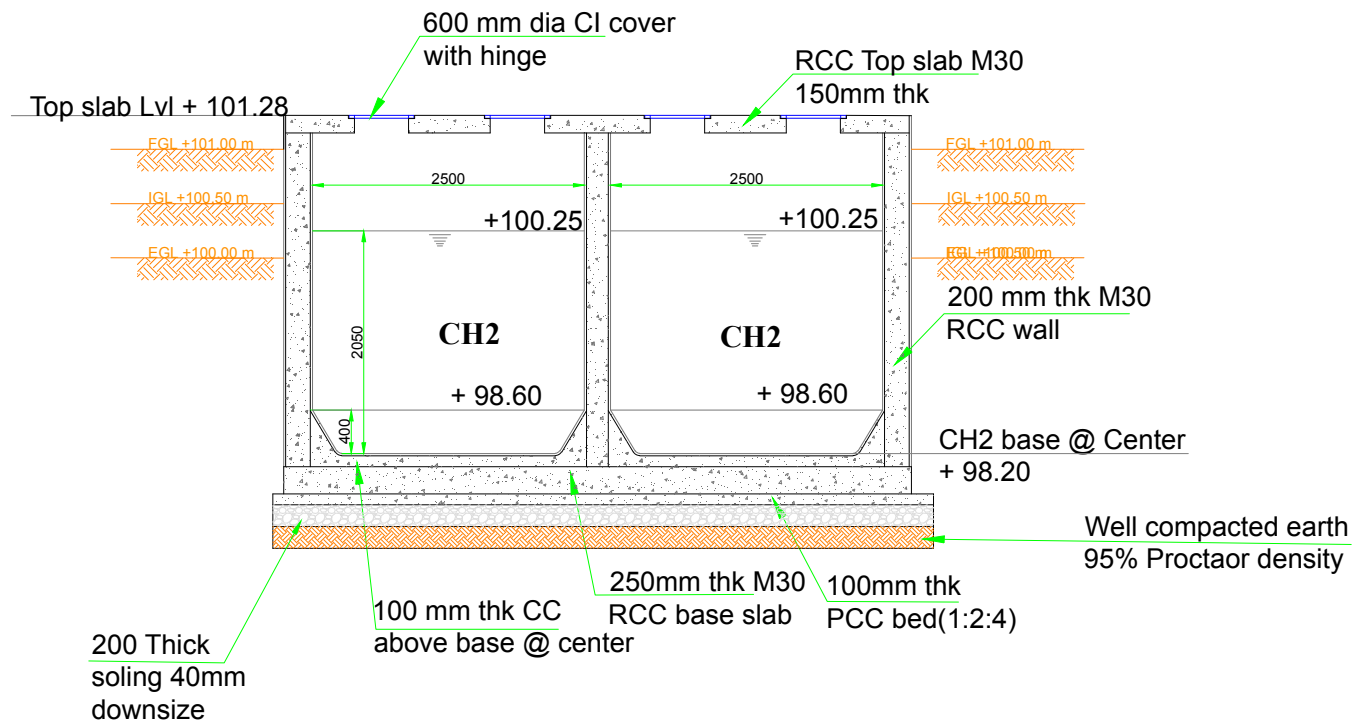
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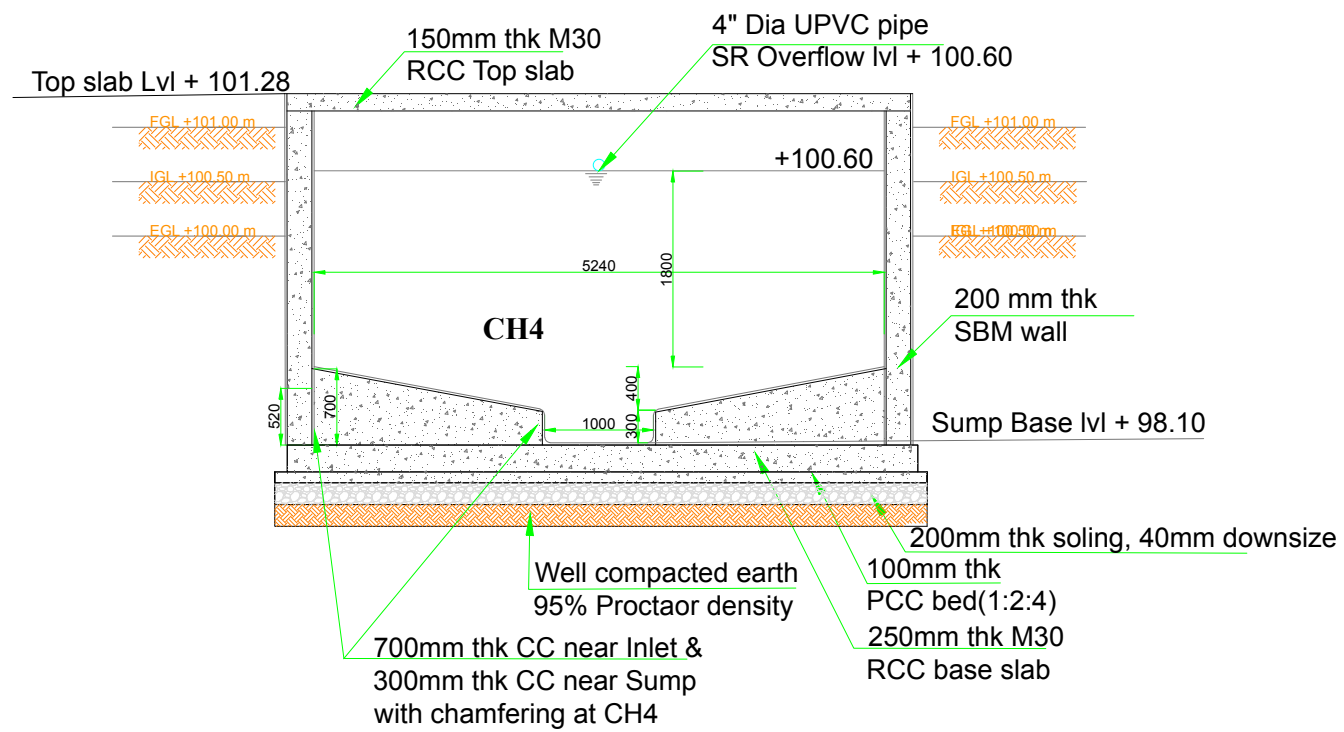
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PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS



CROSS SECTION @ B-B



CROSS SECTION @ D-D

DRAWING TITLE: Stabilisation Recator – Cross Section2
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SR -9

NOTE:
All dimensions are in Meter

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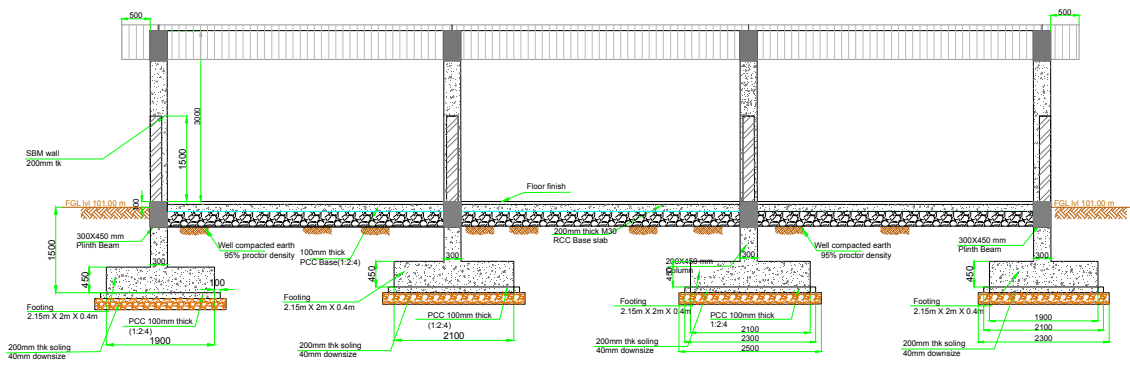
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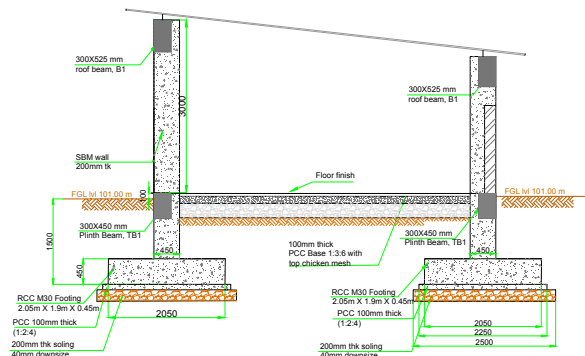
PROJECT:
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SCALE: NTS

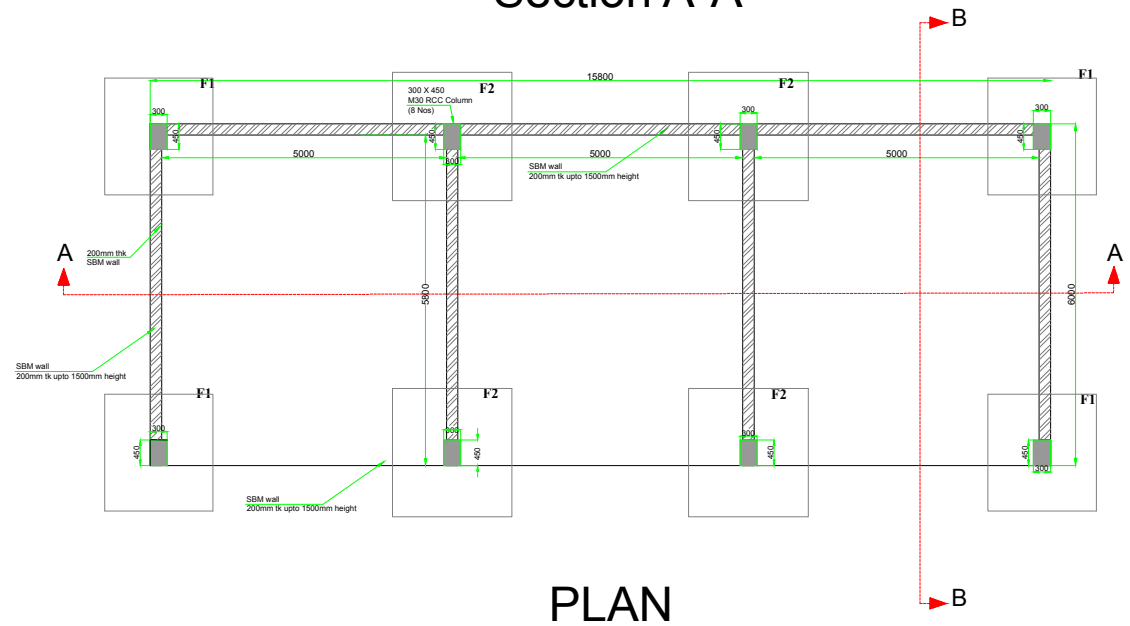




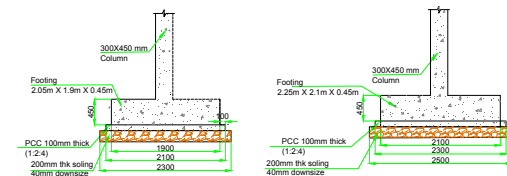
Section A-A



Section B-B

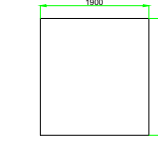


PLAN

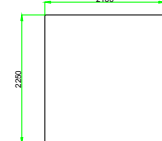


Section@F1

section@F2



Plan@F1



Plan@F2

DRAWING TITLE: Sludge Store House
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
BMGF/Phulera/D-SSH-28

SCALE: NTS

NOTE:
All dimensions are in Meter

CLIENTS:
Rajasthan Urban Infrastructure Development Project



CONSULTANT:
IPE Global Limited

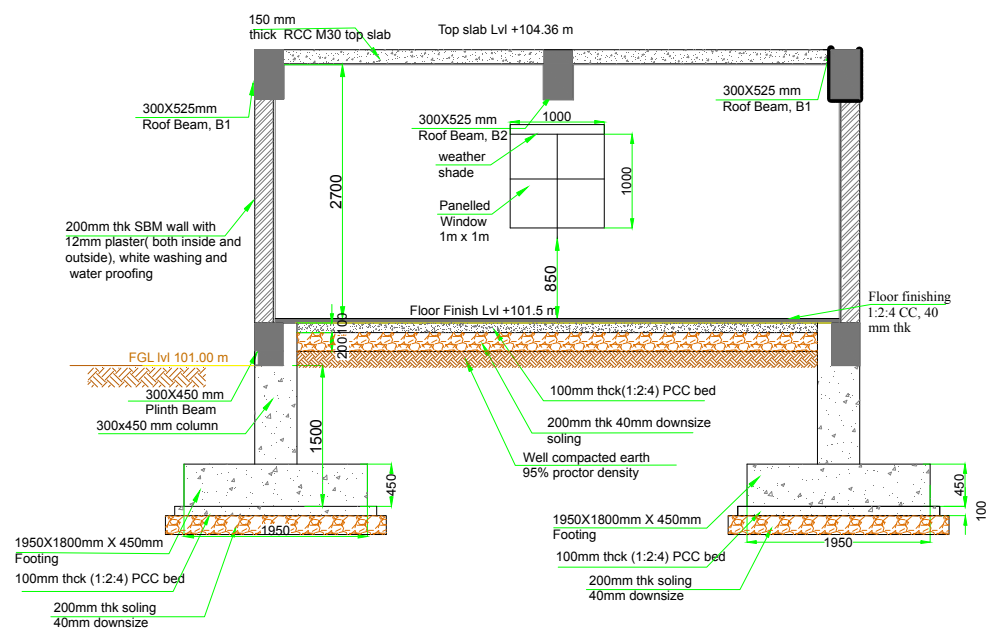
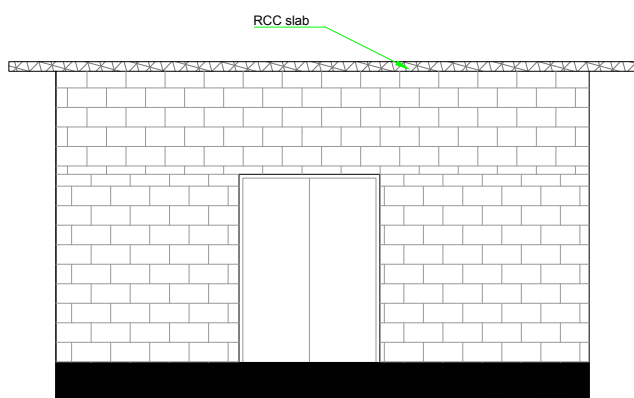
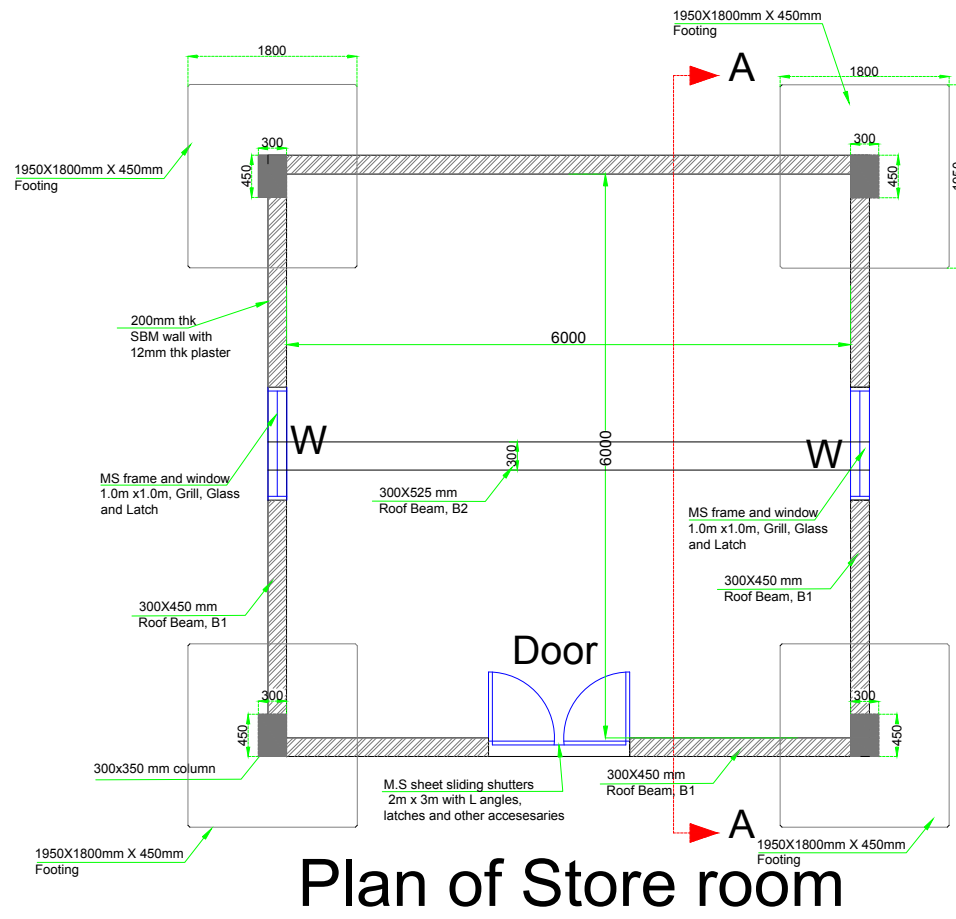
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SUB - CONSULTANT:
CDD Society



Survey No.205 ,Opp.
Beedi Workers Colony,
Kommaghatta Road,
Bandemath, Kengeri
Satellite Town, Bengaluru
Karnataka 560060



DRAWING TITLE: Store Room
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
BMGF/Phulera/D-Store-35

NOTE:
All dimensions
are in Meter

CLIENTS:
Rajasthan Urban Infrastructure
Development Project



CONSULTANT:
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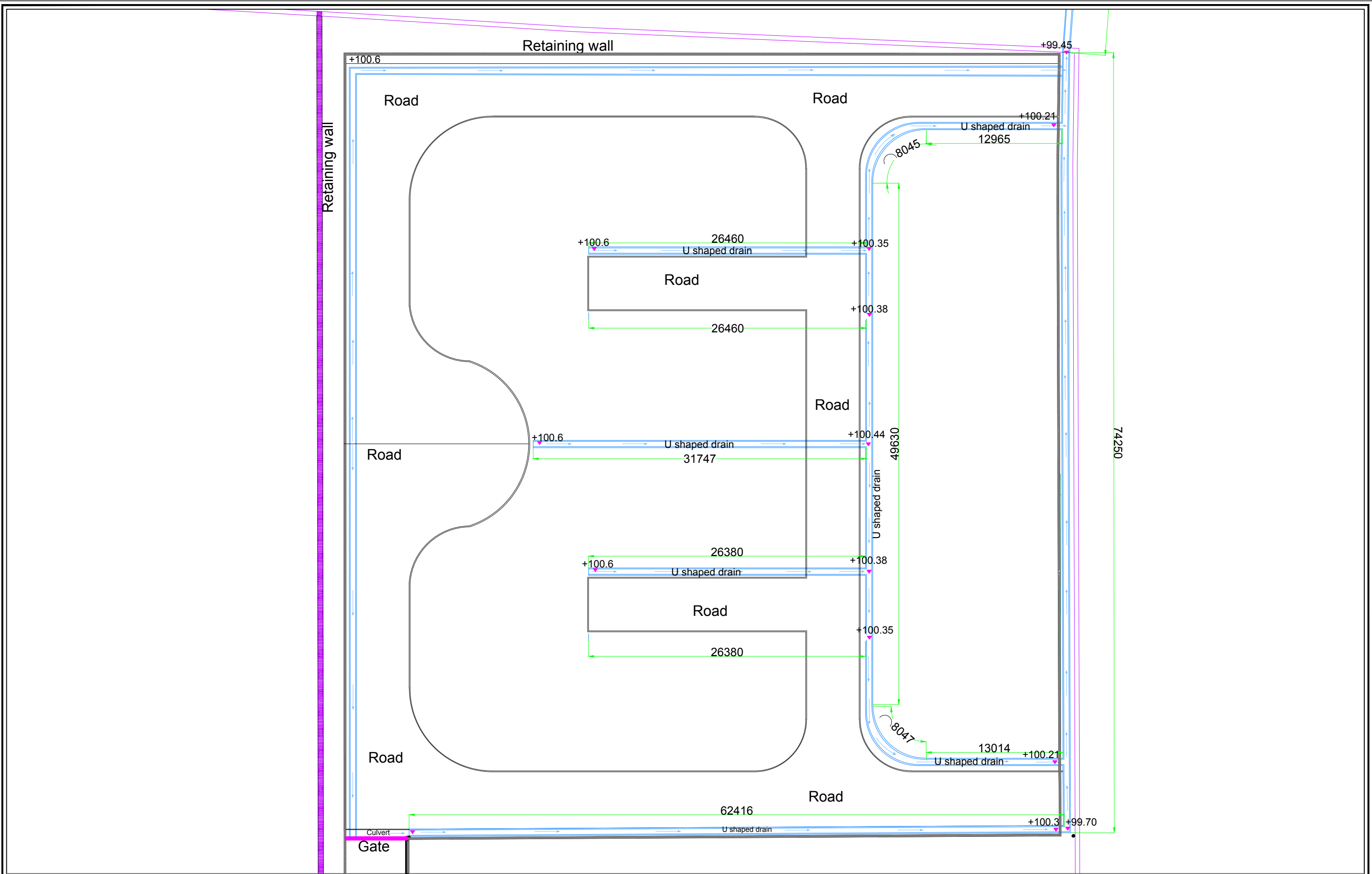
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Satellite Town, Bengaluru
Karnataka 560060

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS



DRAWING TITLE: Storm Drainage Layout
Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

PROJECT:
Capacity Building Support for Innovative Sanitation Solution for Rajasthan

DRAWING NO.:
BMGF/Phulera/D-MP-SWD-42

SCALE: NTS

NOTE:
 This drawing is indicative and for bidding purpose only

CLIENTS:
 Rajasthan Urban Infrastructure Development Project

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CONSULTANT:
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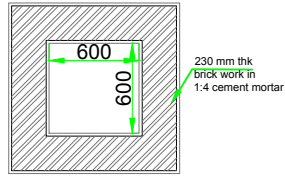
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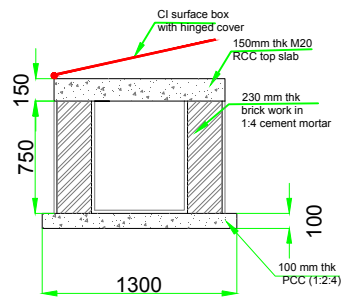
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 560060

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VC1

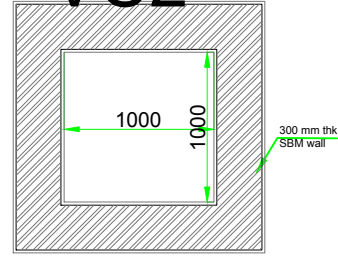


Plan

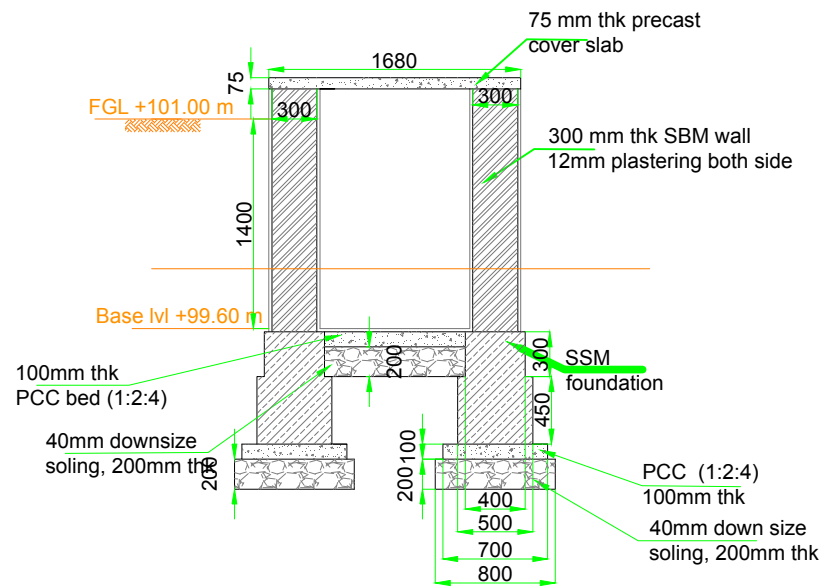


Sectional view

VC2



Plan



Sectional view

Valve Chambers

#7 VC1: base level @100.55 #2, base level @100.95 #4 & @100.16 #1
 #2 VC2: base level @99.66 #2

DRAWING TITLE: Valve Chamber Detail
 Faecal Sludge Treatment Plant, Phulera -Sambhar, Rajasthan

DRAWING NO.:
 BMGF/Phulera/D-VC-33

NOTE:
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CLIENTS:
 Rajasthan Urban Infrastructure Development Project



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PROJECT:
 Capacity Building Support for Innovative Sanitation Solution for Rajasthan

SCALE: NTS