

SKS DRAFT DPR SUBMISSON AMENDMENTS

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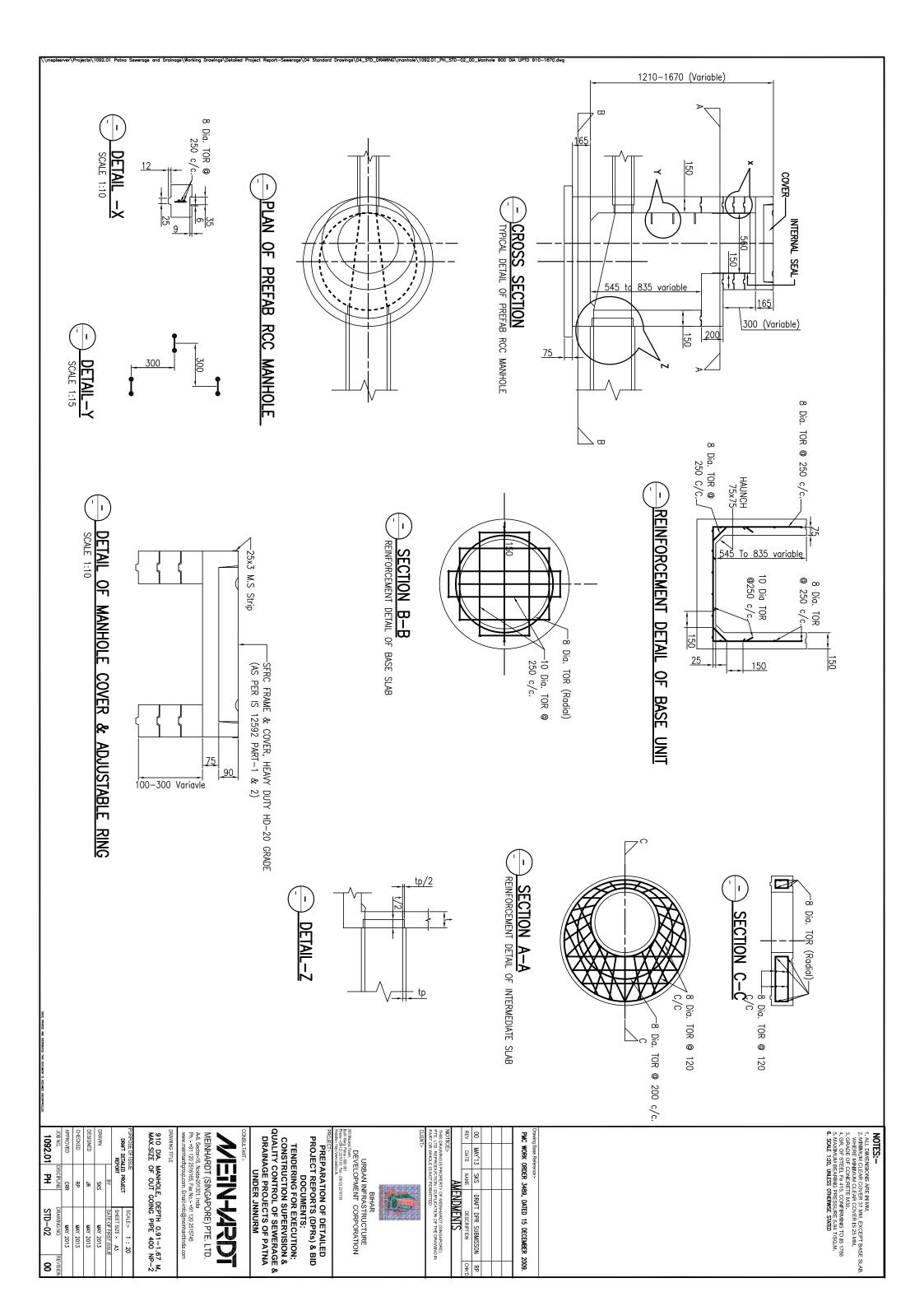
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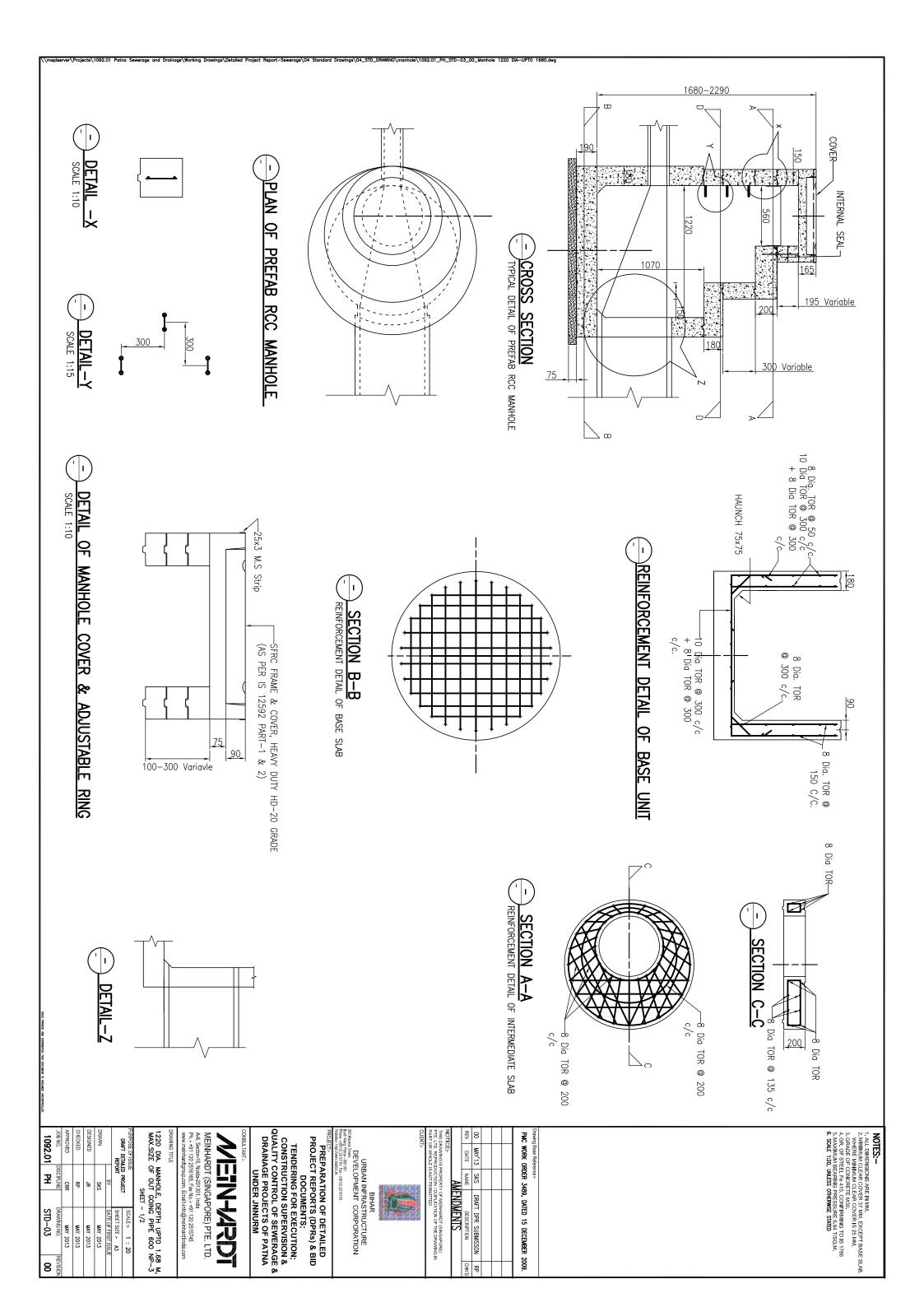
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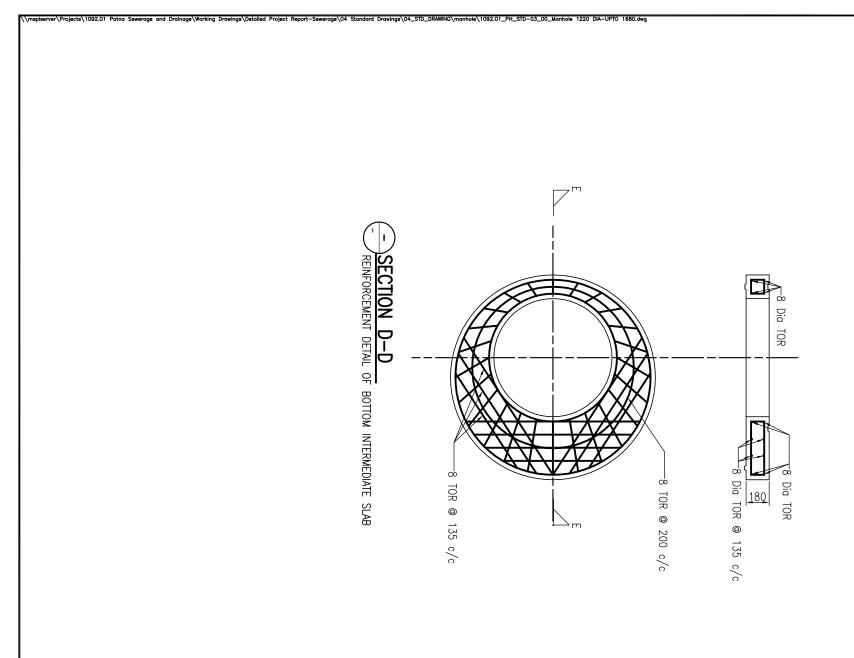
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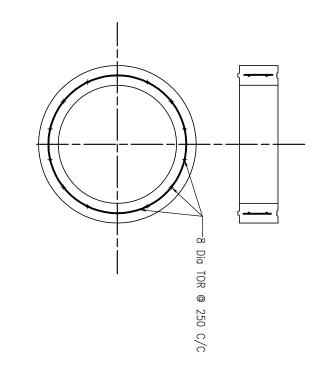
DATE OF FIRST ISSUE

MAY 2013









Panc Work Order 3489, Dated 15 December 2009.

00 MAY'13 SKS DRAFT DPR SUBMISSON
REV DATE NAME DESCRIPTION

AMENDMENTS

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Patna - 800 001 (12) 2210101, Fax - (0612) 2210103 (p://www.buidoo.in.

REINFORCEMENT DETAIL OF INTERMEDIATE RING

PROJECT REPORTS (DPRS) & BID PROJECT REPORTS (DPRS) & BID DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JUNURM **MEIN-ARDI**

MEINHARDT (SINGAPORE) PTE. LTD.

A-8, Sector-16, Noida-201301, India Ph.: - +91 120 2516165, Fax No.: - +91 120 2515745 www.meinhardtgroup.com, Email:-nfo@meinhardtindia.com

DRAFT DETAILED PROJECT REPORT

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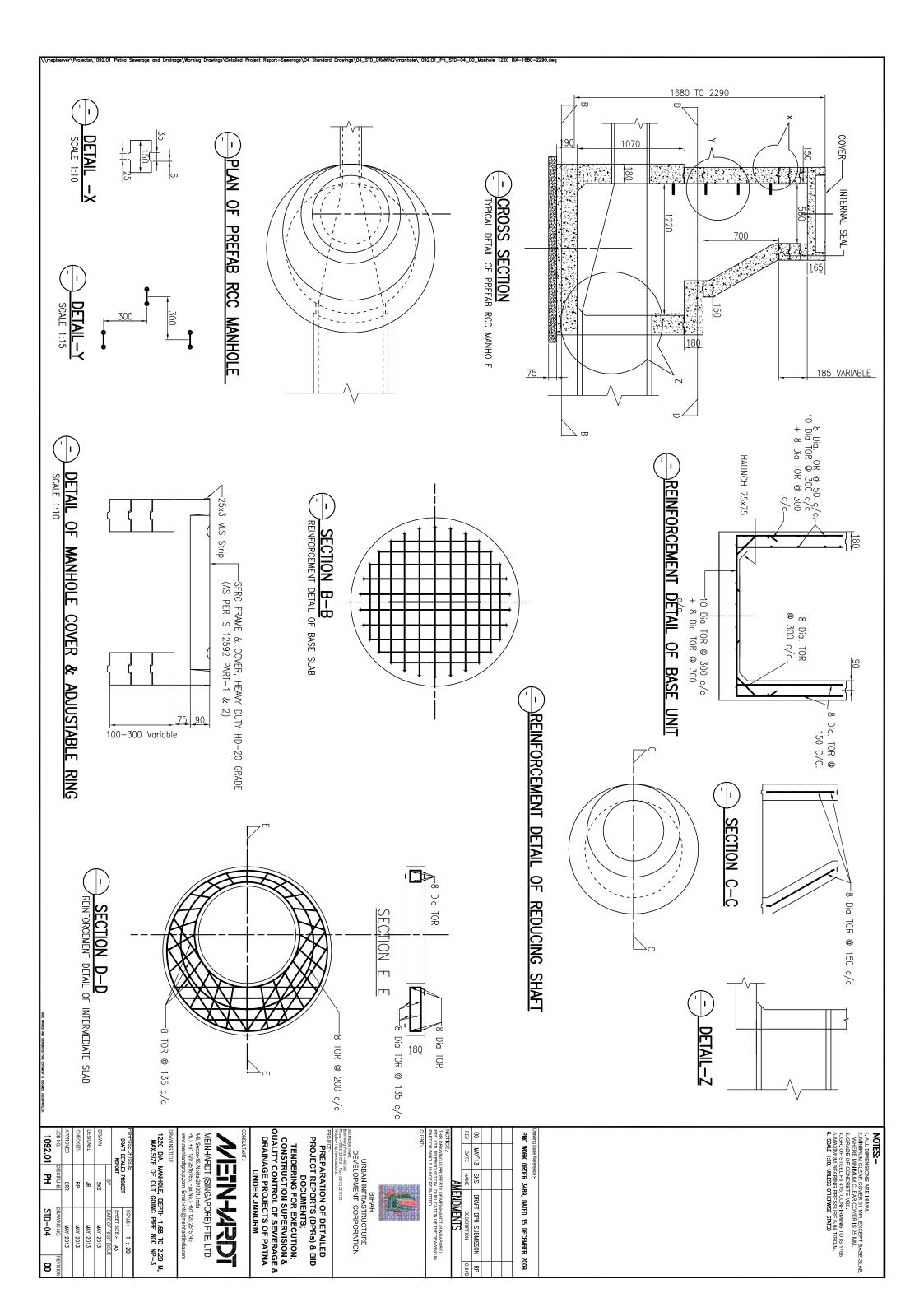
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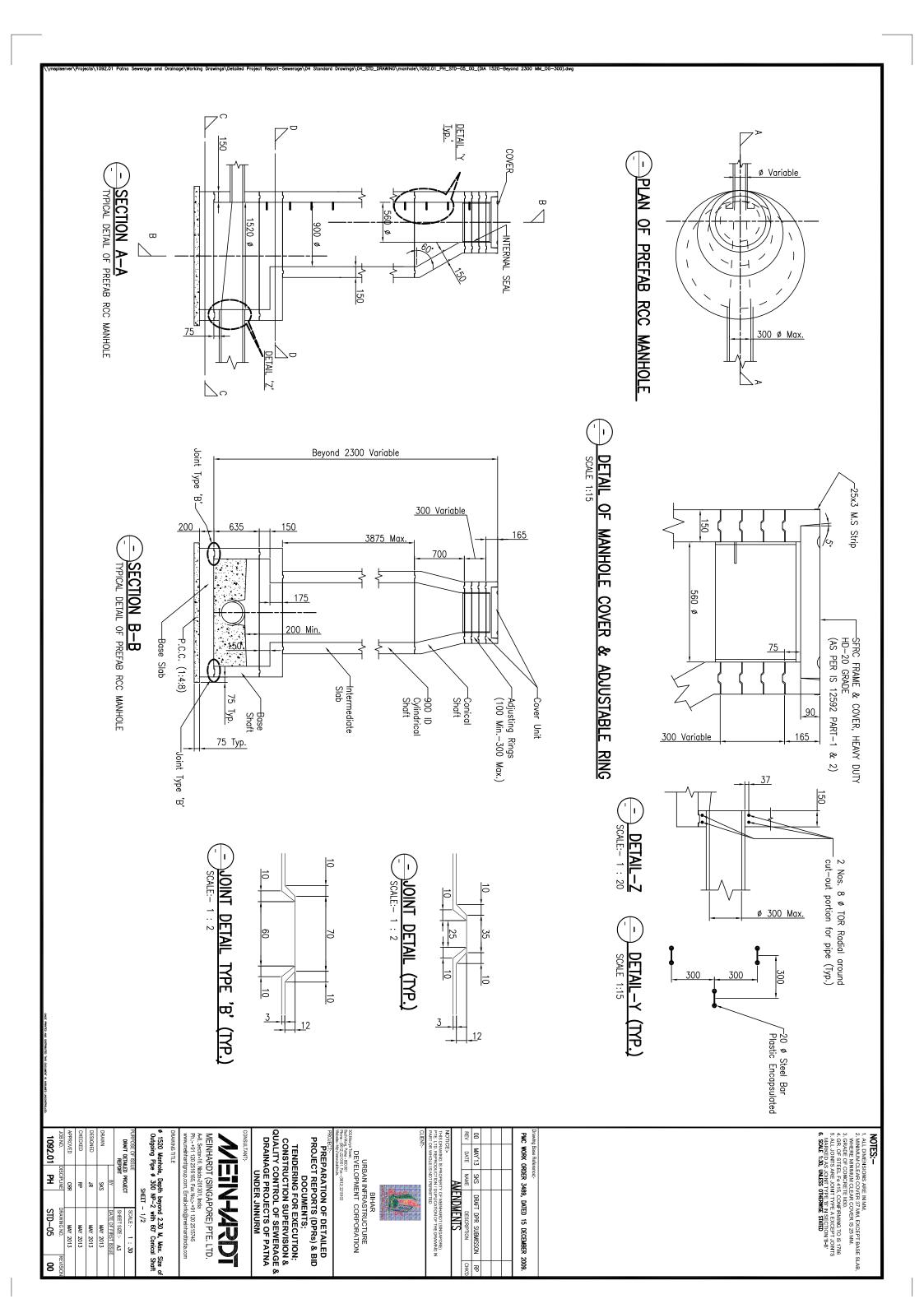
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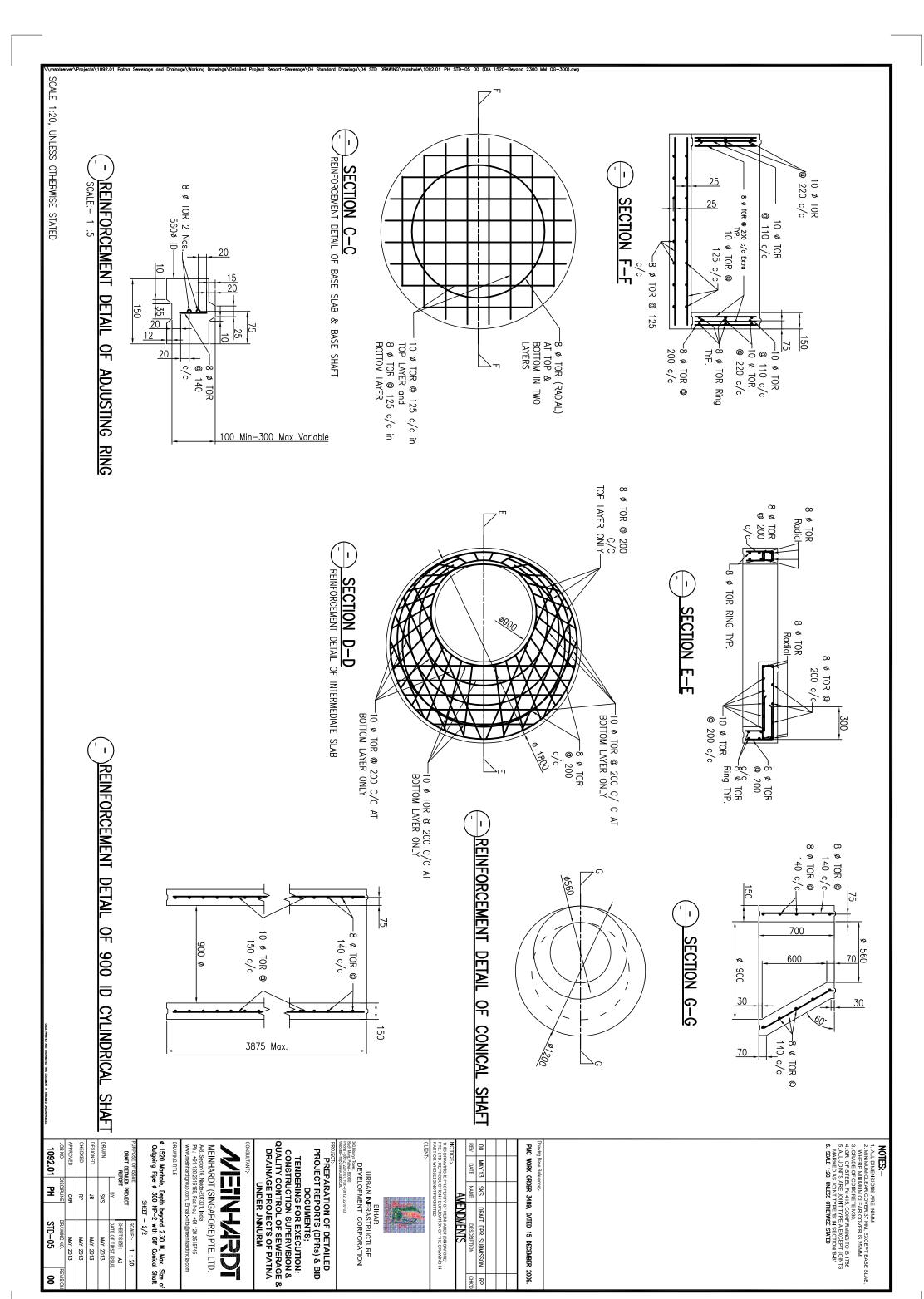
STD-03

1220 DIA. MANHOLE, DEPTH UPTO 1.68 M, MAX.SIZE OF OUT GOING PIPE 600 NP-3 SHET - 2/2

NOTES:
1. ALL DIMENSIONS ARE IN MM.
2. MINIMUM CLEAF COVER 37 MM, EXCEPT BASE SLAB, WHERE MINIMUM CLEAF COVER IS 25 MM.
3. GRADE OF CONCRETE M30.
4. GR, OF STEEL Fe 415, CONFIRMING TO IS 1786
5. MAXIMUM BEARING PRESSURE 8.94 T/SO.M.
6. SOALE 1:20, UNLESS OTHERWISE STATED







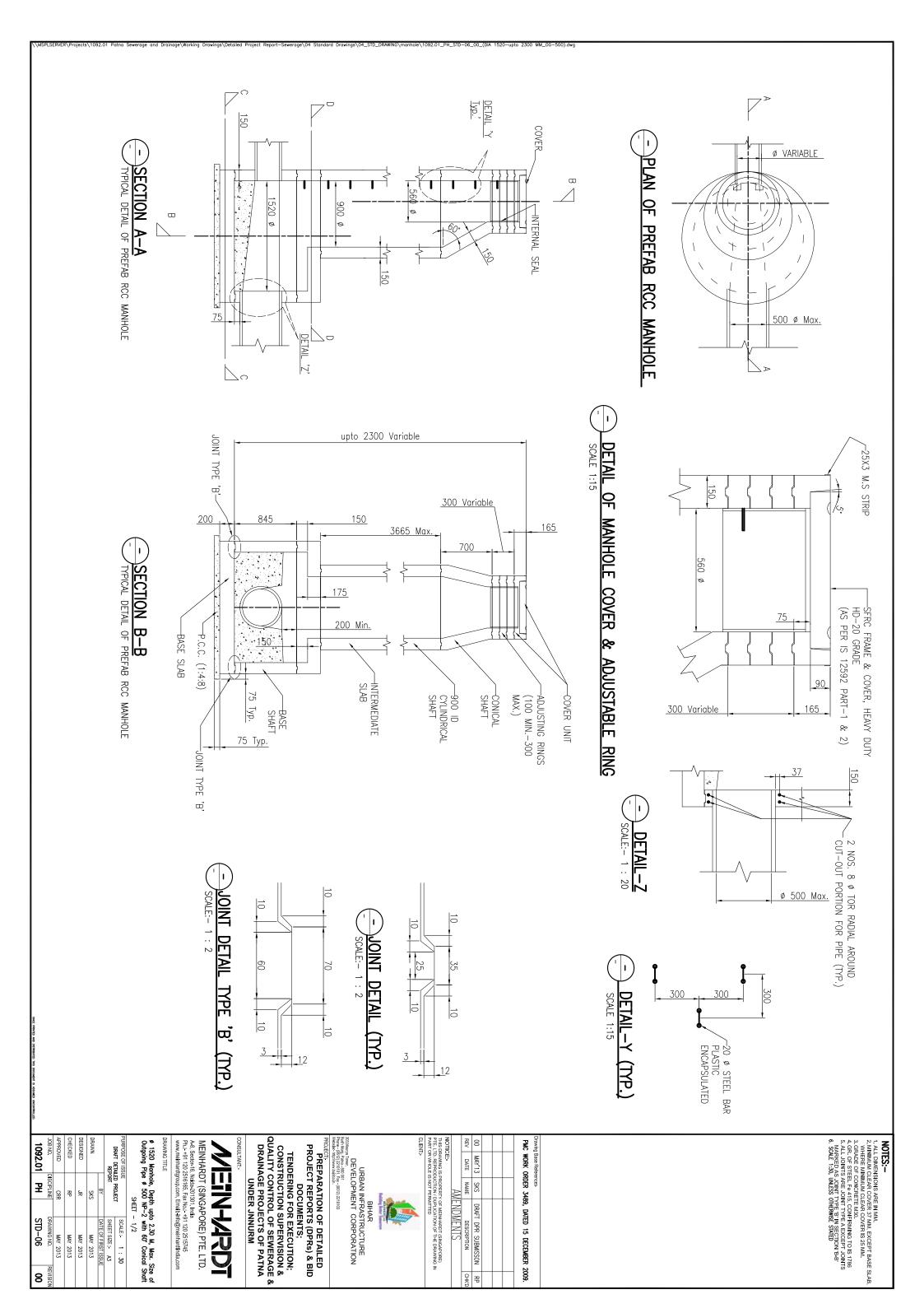
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SHEET SIZE :: A3

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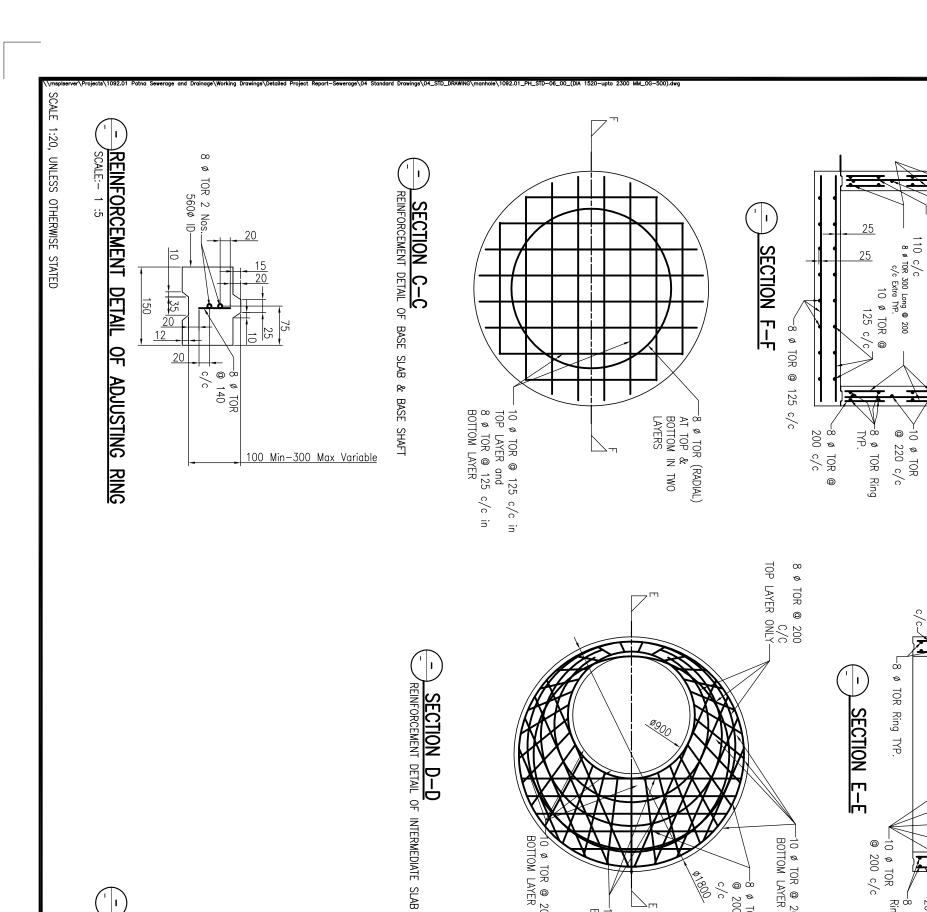
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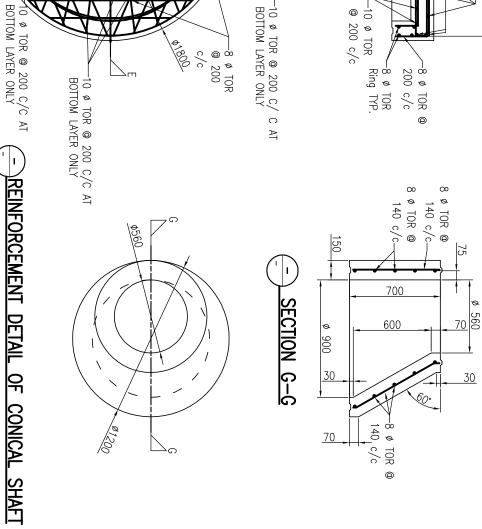
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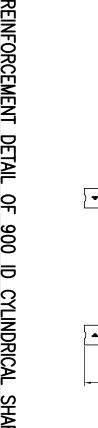
STD-06

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REINFORCEMENT DETAIL OF 900 ID CYLINDRICAL SHAFT

Panding Base Reference:PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

NAME DESCRIPTION

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Part of 1972/2010103

Related: http://www.bladecate.

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CONSTRUCTION SUPERVISION &
QUALITY CONTROL OF SEWERAGE &
DRAINAGE PROJECTS OF PATNA
UNDER JNNURM

10 ø TOR @

3665 Max

150 c/c

MEINHARDI

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A-8, Sector-16, Noble-201301, India
Ph.:-+91 120 2516165, Fax No.:-+91 120 2515745
www.meinhardigroup.com, Email-info@meinhardindia.com

900

1520 Manhole, Depth beyond 2.30 M, Max. Size Outgoing Pipe # 500 NP-2 with 60' Conical Shaf

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REPORT SKS MAY 2013 MAY 2013 MAY 2013

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STD-06 MAY 2013 DRAWING NO.

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1. ALL DIMENSIONS ARE IN MM.
2. MINIMUM CLEAR COVER 37 MM, EXCEPT BASE SLAB.
WHERE MINIMUM CLEAR COVER IS 25 MM.
3. GRADE OF CONCRETE M30.
4. GR. OF STEEL F6 445, COVERNMING TO IS 1736
5. ALL JOINTS ARE JOINT TYPE A EXCEPT JOINTS
MARKED AS JOINT TYPE IP, IN SECTION 18-B'
6. SCALE 1:20, UNLESS OTHERWISE STATED

10 ø TOR //@ 220 c/c

150

—10 ø TOR @ 110 c/c

8 ø TOR @ 200

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8 ø TOR Radial_\

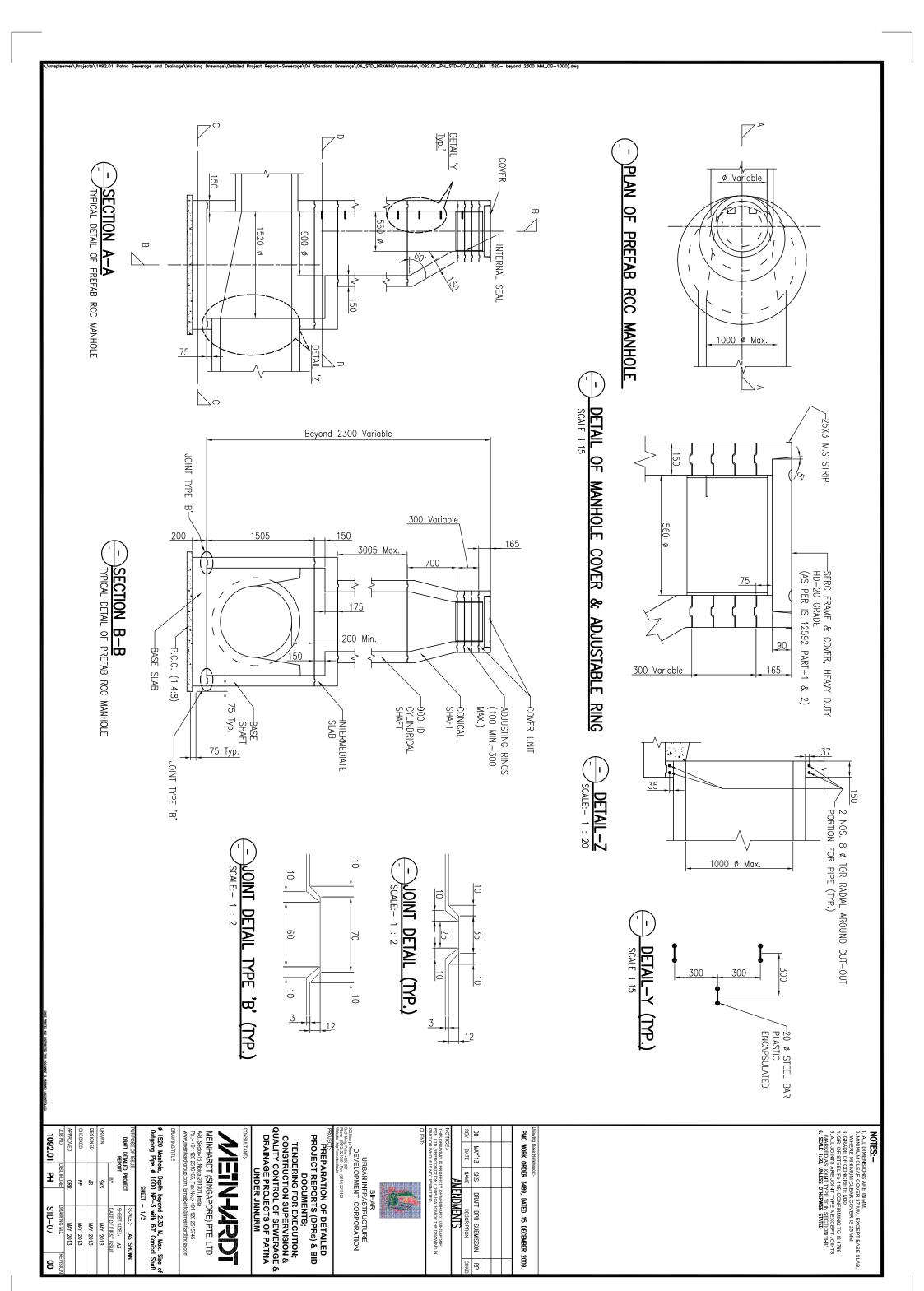
8 ø TOR Radial-

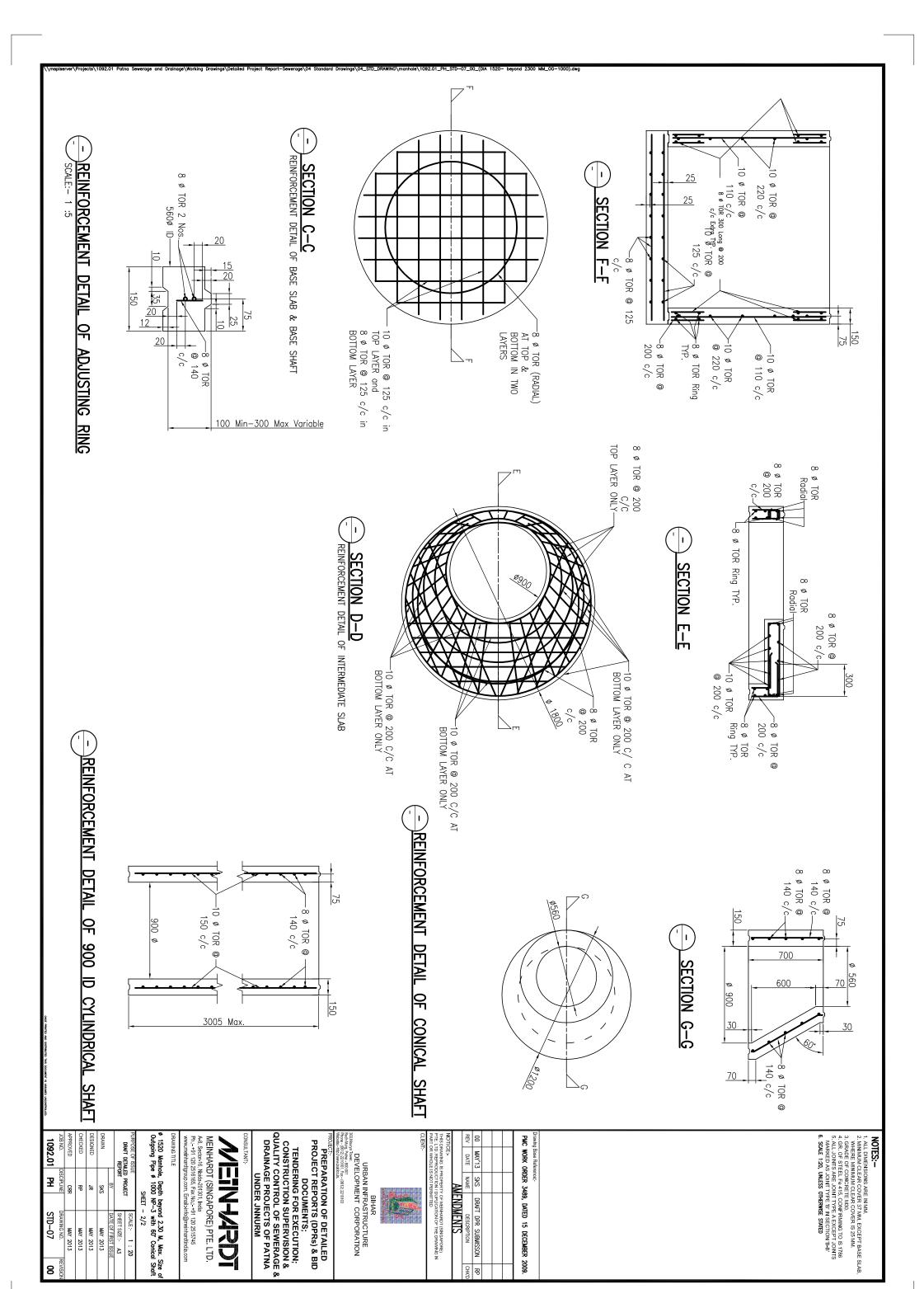
8 ø TOR @ 200 c/c-

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10 ø TOR @

@ 220 c/c 10 Ø TOR

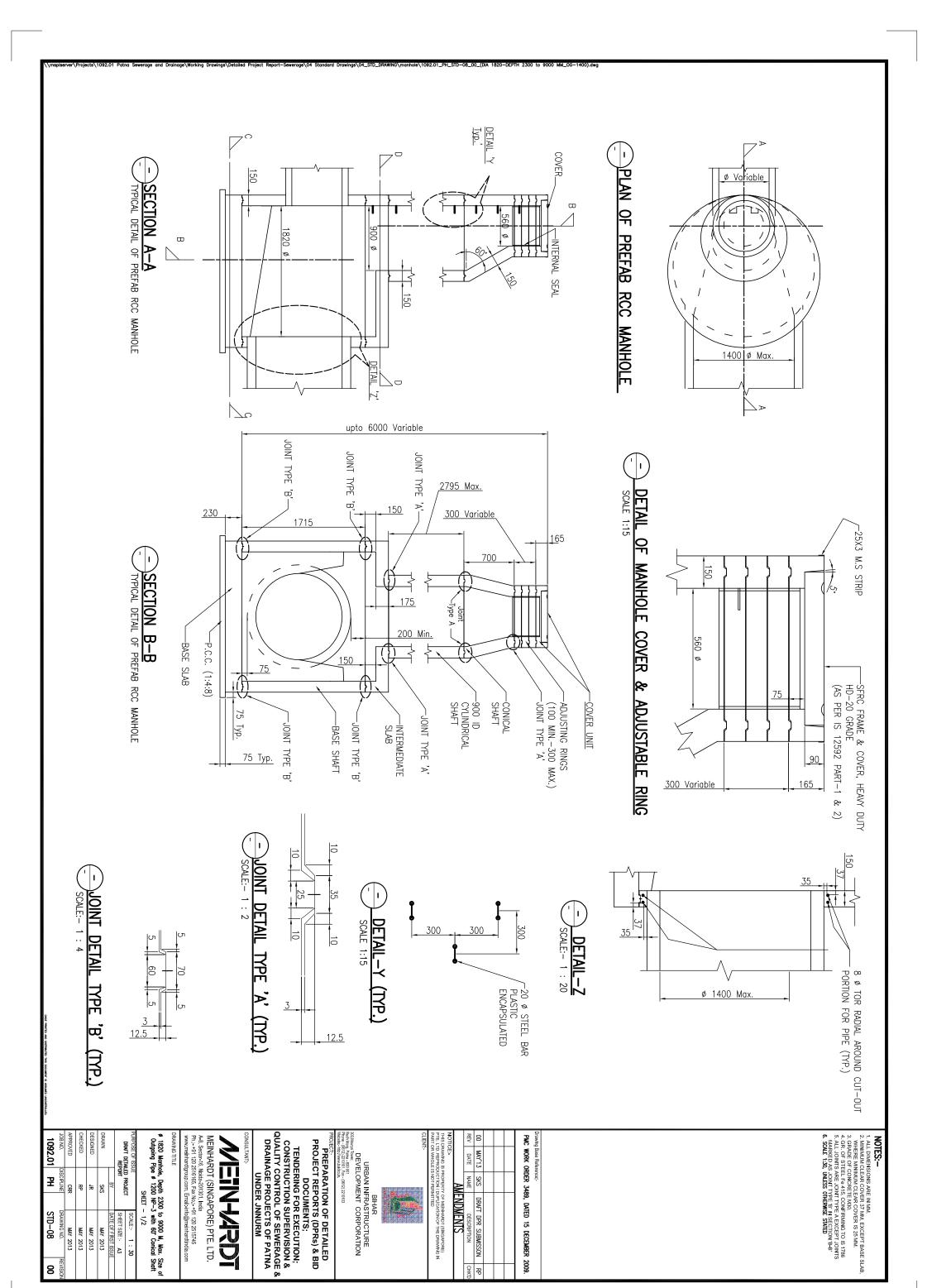


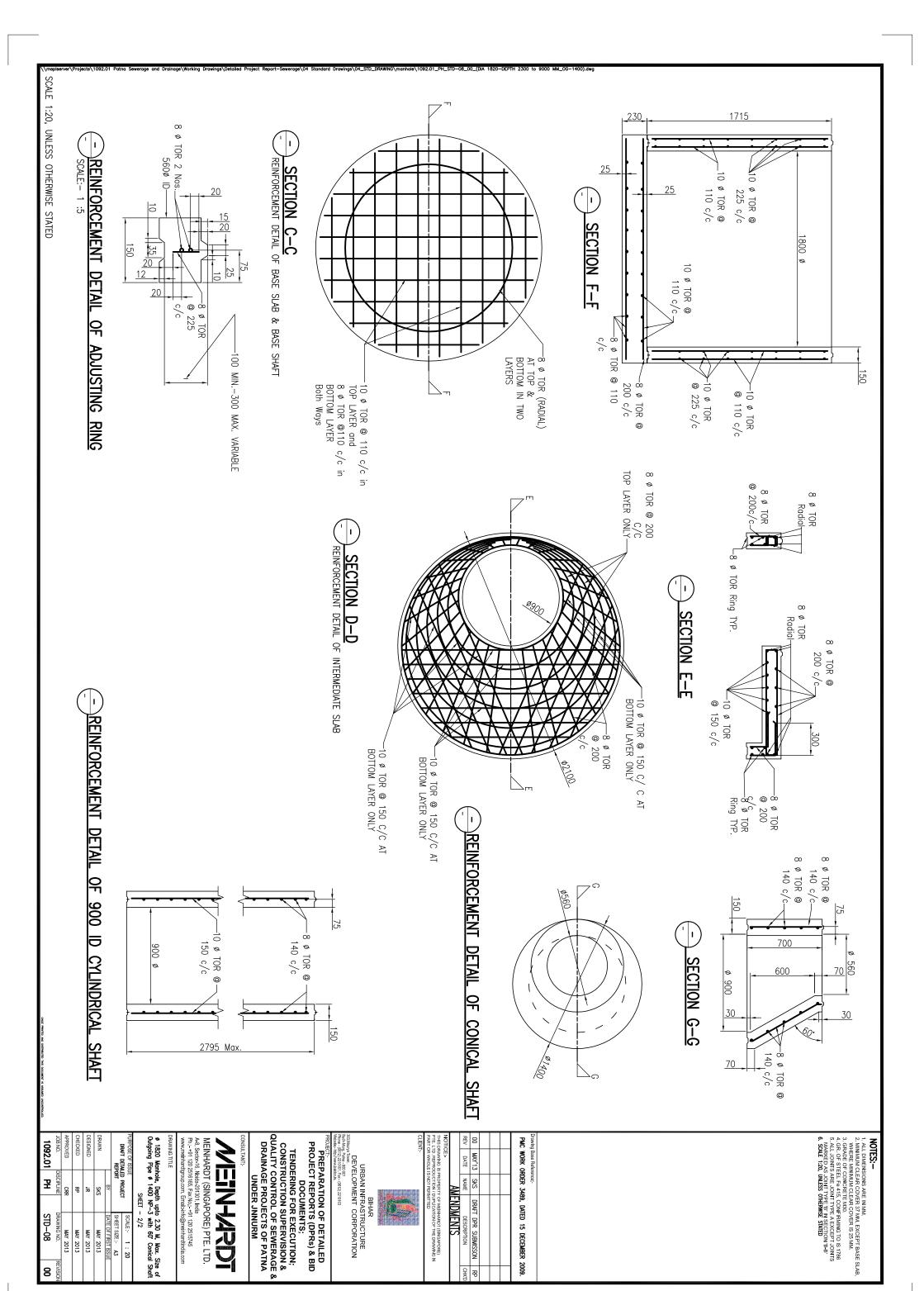


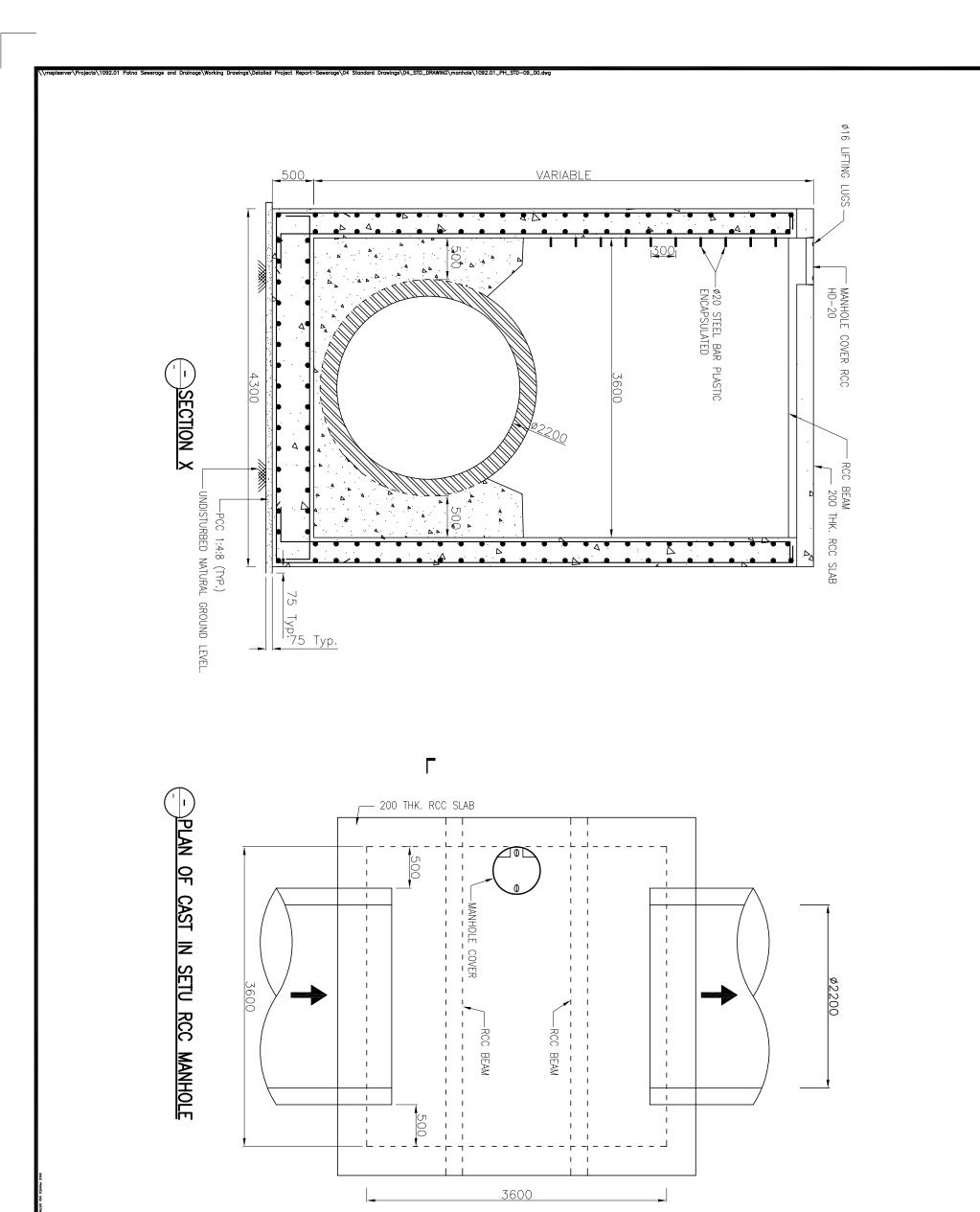
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PROJECT:
PREPARATION OF DETAILED
PROJECT REPORTS (DPRS) & BID
DOCUMENTS;
TENDERING FOR EXECUTION;
CONSTRUCTION SUPERVISION &
QUALITY CONTROL OF SEWERAGE &
DRAINAGE PROJECTS OF PATNA
UNDER JNNURM BIHAR
URBAN INFRASTRUCTURE
DEVELOPMENT CORPORATION
200.Mays Town 200.001
From 1850.22010 1850.002.220103 NOTICE:
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PTE. LTD. REPRODUCT
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CLIENT: MAY'13 SKS DRAFT DPR SUBMISSON
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MEINHARDT (SINGAPORE) PIE. LIU.
A-8, Sector-16, Noide-201301, India
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Ph.: mw.meinhardigroup.com, Ernall-info@meinharditindia.com

JRPOSE OF ISSUE

DRAFT DETAILED PROJECT

REPORT

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MAY 2013

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Rectangular Manhole, Size of Outgoing Pipe ø 2200 NP-3

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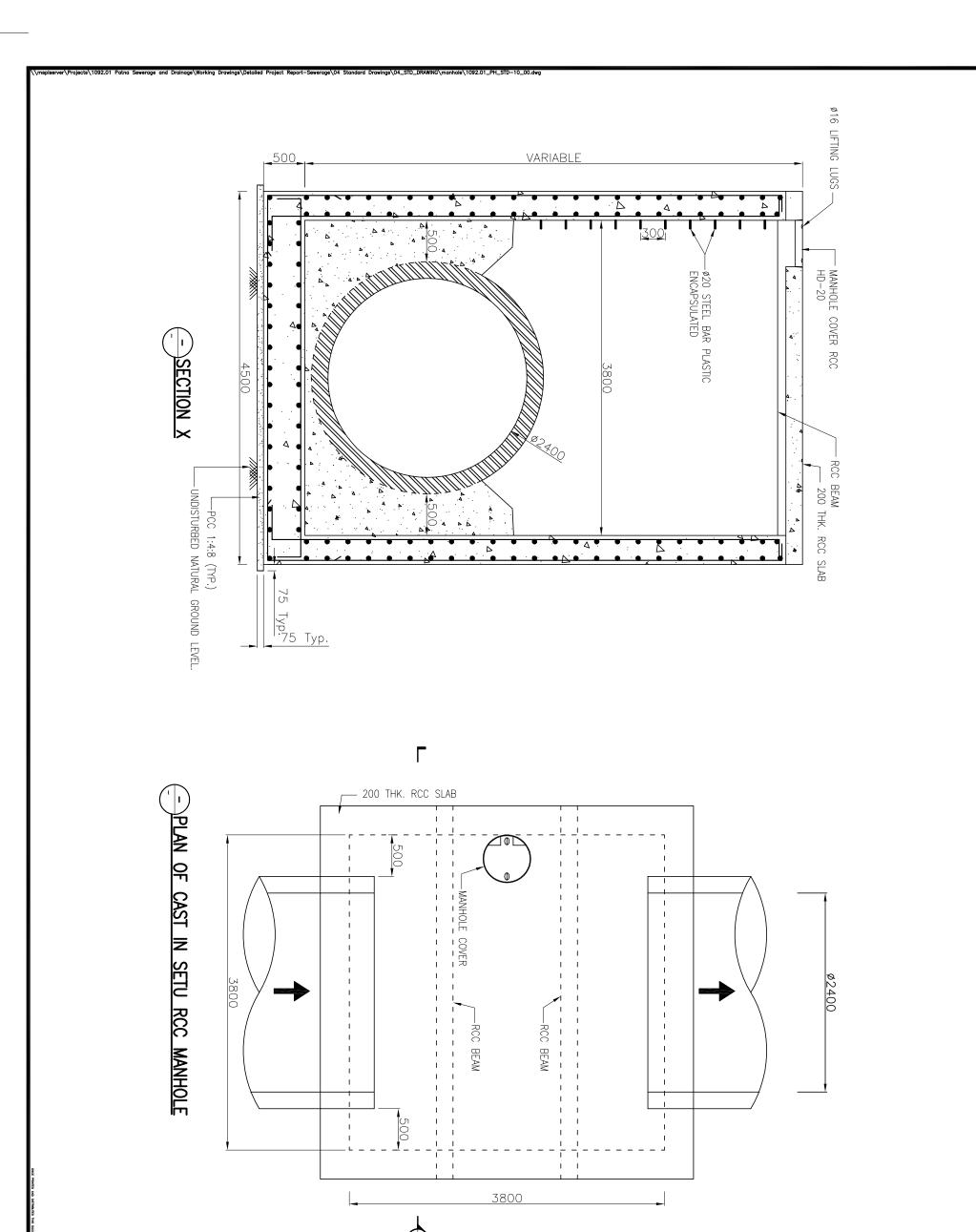
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DER 3489, DATED 15 DECEMBER 2009		
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Drawing Base Reference:
PMC WORK ORDER

NOTES:
1. ALL DIMENSION ARE IN mm. UNLESS OTHERWISE SPECIFIED.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEANT DRAWINGS, ANY DISCREPANCIES, ERRORS OR OMISSIONS TO BE BROUGHT TO THE ATTENTION OF CONSULTANTS.

3. ALL DIMENSIONS TO BE CHECKED BEFORE COMMENCEMENT OF WORK ON SITE.



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CONSULTANT:		NAIIA		TENDE		PREP/	T	Budh Marg, Patria - 800 001 Budh Marg, Patria - 800 001 Phone - (0612) 2210101, Fax - (0612) 2210103 Website - http://www.buidco.in.	DEVE	URI			515	PART OR WHOLE IS NOT PERMITTED	RAWING IS F	Ä		DATE	MAY'13	
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	UNDER JNNURM	DRAINAGE PROJECTS OF PATNA	QUALITY CONTROL OF SEWERAGE &	TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION &	DOCUMENTS;	PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID		210103	DEVELOPMENT CORPORATION	URBAN INFRASTRUCTURE	BIHAR			PART OR WHOLE IS NOT PERMITTED	THIS DRAWING IS PROPERTY OF MEINHARDT (SINGAPORE)		AMENDMENTS	DESCRIPTION	DRAFT DPR SUBMISSON	
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Drawing Base Reference:
PMC WORK ORDER 3489, DATED 15 DECEMBER 2009.

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Rectangular Manhole, Size of Outgoing Pipe ø 2400 NP-3

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DRAFT DETAILED PROJECT

REPORT

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REVISION

MAY 2013

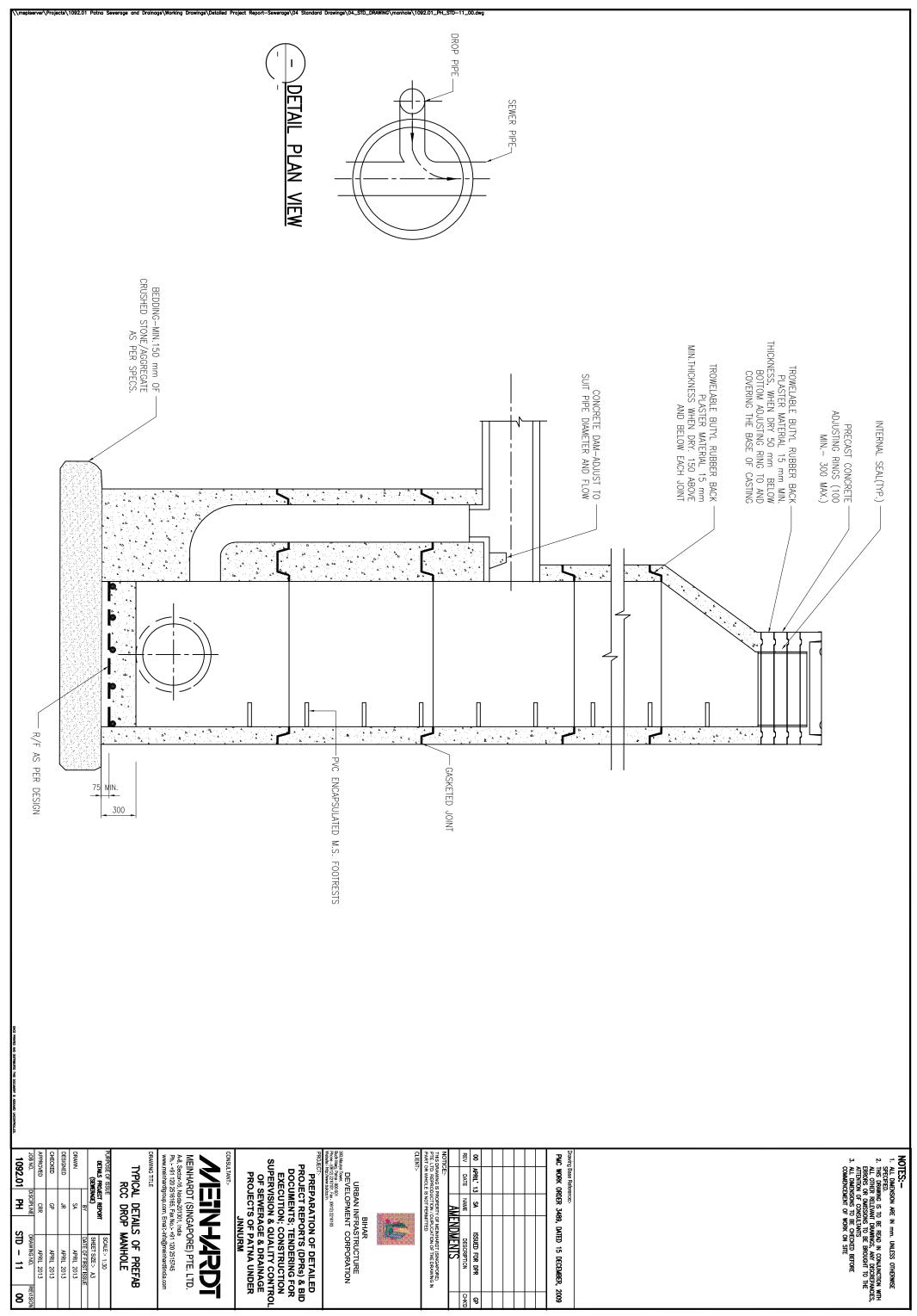
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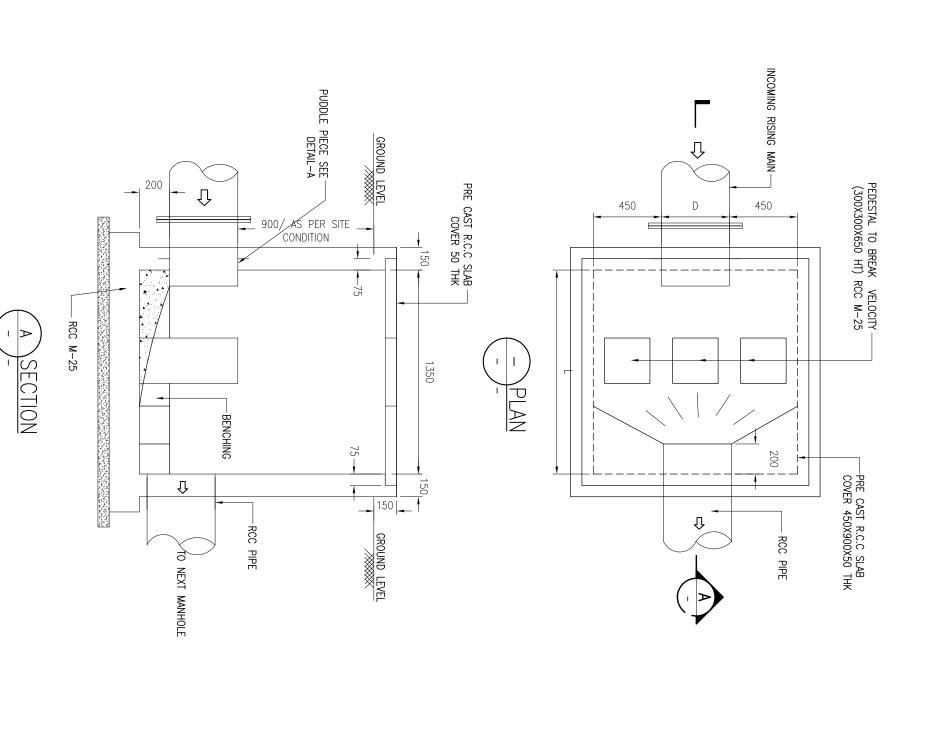
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DATE OF FIRST ISSUE

APRIL 2013

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C.I./M.S. PUDDLE PIECE
 WITH 10mm THK. PLATE
 ALL ROUND 50mm WIDE

- FLANGE

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AMENDMENTS / OF MEINHARDT (SINGAPORE)
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ETAIL

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PREPARATION OF DETAILED PROJECT REPORTS (DPRs) & BID DOCUMENTS; TENDERING FOR EXECUTION; CONSTRUCTION SUPERVISION & QUALITY CONTROL OF SEWERAGE & DRAINAGE PROJECTS OF PATNA UNDER JNNURM

MEINHARDT (SINGAPORE) PTE. LTD. .+91 120 2516165, Fax No. - +91 120 2515745 .meinhardtgroup.com, Email:-info@meinhardtindia.com

RISING MAIN DISCHARGE MANHOLE

DRAFT DETAILED PROJECT REPORT SHEET SIZE: A3

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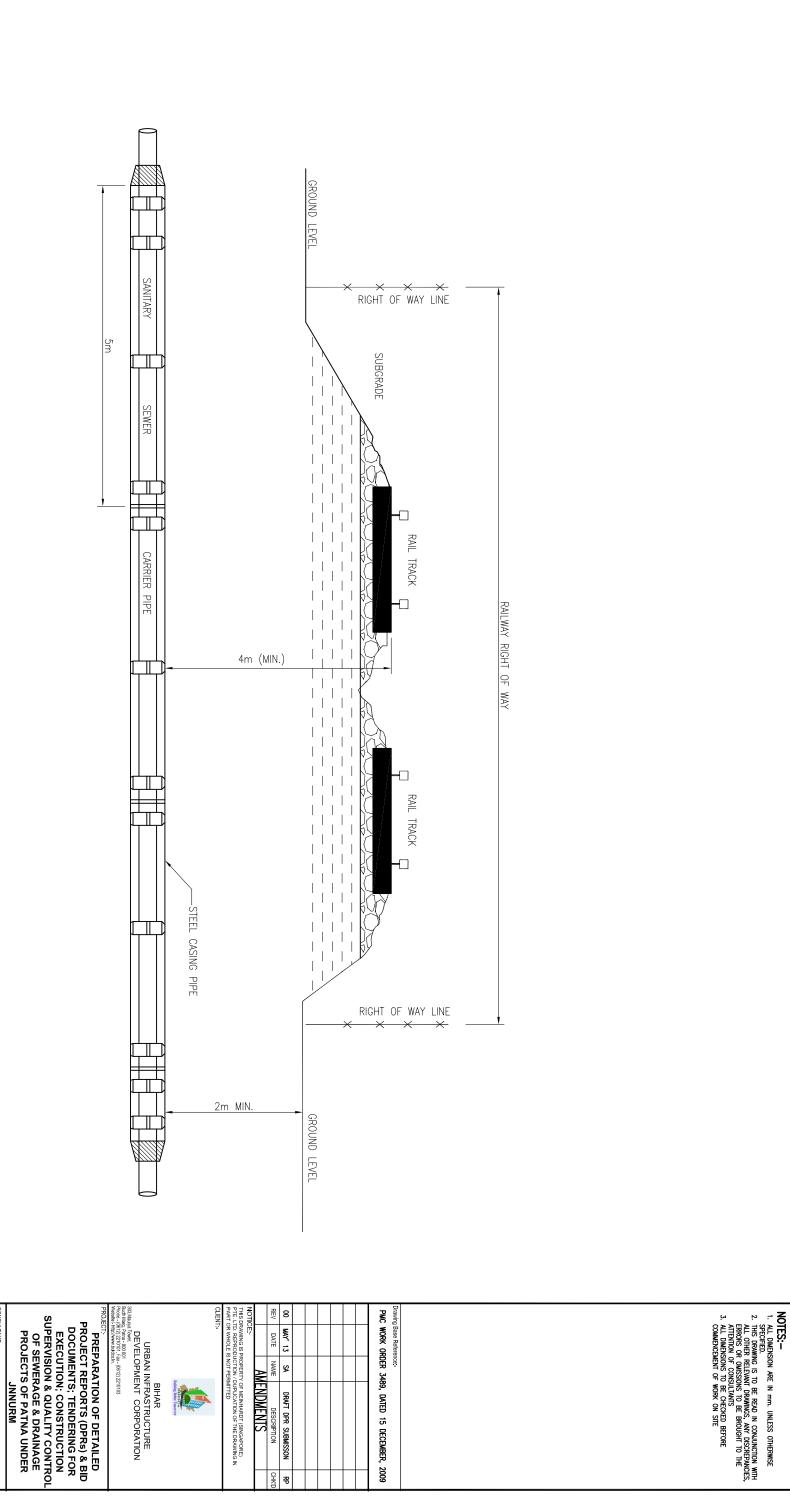
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NOTES:
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3. ALL DIMENSIONS TO BE CHECKED BEFORE COMMENCEMENT OF WORK ON SITE



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SHEET SIZE: A3
DATE OF FIRST ISSUE
MAY 2013
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STD - 13

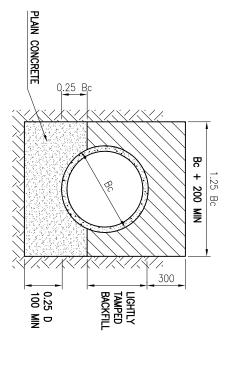
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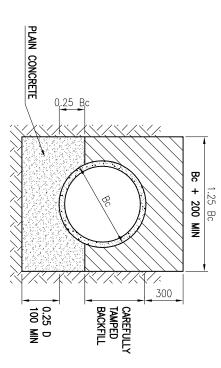
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SCHEMATIC OF RAIL TRACK CROSSING

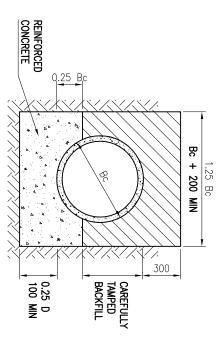




BEDDING CLASS — Ad (PCC CRADLE AND LIGHTLY TAMPED BACKFILL)

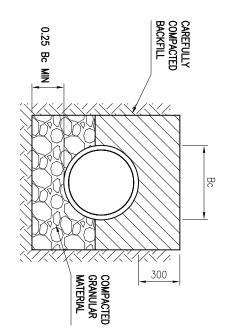


BEDDING CLASS — Ab (PCC CRADLE AND CAREFULLY TAMPED BACKFILL)



'P' THE RATIO OF THE AREA OF STEEL TO THE AREA OF CONCRETE AT THE CROWN BEDDING CLASS — Ac (RCC CRADLE WITH P-0.4%)

CLASS - A



 $\begin{array}{lll} {\sf BEDDING} & {\sf CLASS} & - & {\sf B} \\ {\sf compacted} & {\sf granular} & {\sf bedding} \end{array}$

CLASS - \Box

NOTES:-

- 1. ALL DIMENSIONS ARE IN MM.
- GRANULAR BEDDING AS PER APPROVAL OF ENGINEER.

2.

- 3. PCC MIX AS PER APPROVAL OF ENGINEER.
- 4. IN ROCK, TRENCH IS EXCAVATED AT LEAST 150 MM BELOW THE BELL OF THE PIPE EXCEPT WHERE CONCRETE CRADLE IS USED.

4.

WELL GRADED CRUSHED ROCK OR GRAVEL WITH THE MAX. SIZE NOT EXCEEDING 25 MM IS RECOMMENDED.

5

6. THE ENCASEMENT OF PIPE AND WIDTH OF EXCAVATION SHALL BE AS PER CPHEEO MANUAL ON SEWERAGE AND SEWAGE TREATMENT.

6.

PMC WORK ORDER 3489, MAY' 13 SA DRAFT DPR SUBMISSON DATED 15 DECEMBER, 2009

PERTY OF MEINHARDT (SINGAPORE) ION / DUPLICATION OF THE DRAWING IN IT PERMITTED AMENDMENTS

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16165, Fax No.:- +91 120 2515745 roup.com, Email:Info@meinhardtindia.com

RAWING TITLE TYPICAL DRAWING FOR DIFFERENT CLASSES OF BEDDING FOR SEWER IN TRENCHES

BEDDING FOR TRENC!

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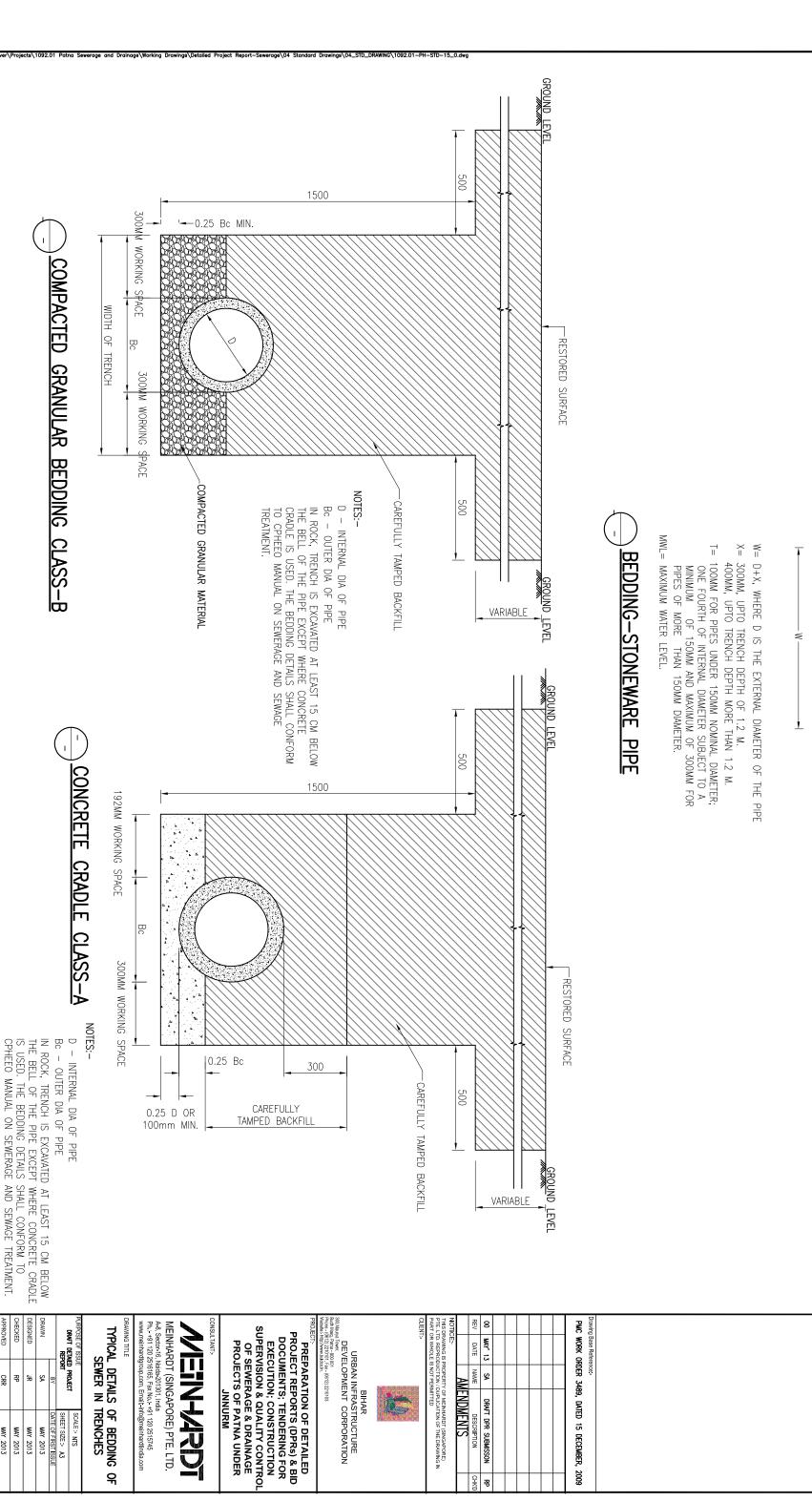
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STD - 14



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DRAFT DPR SUBMISSON

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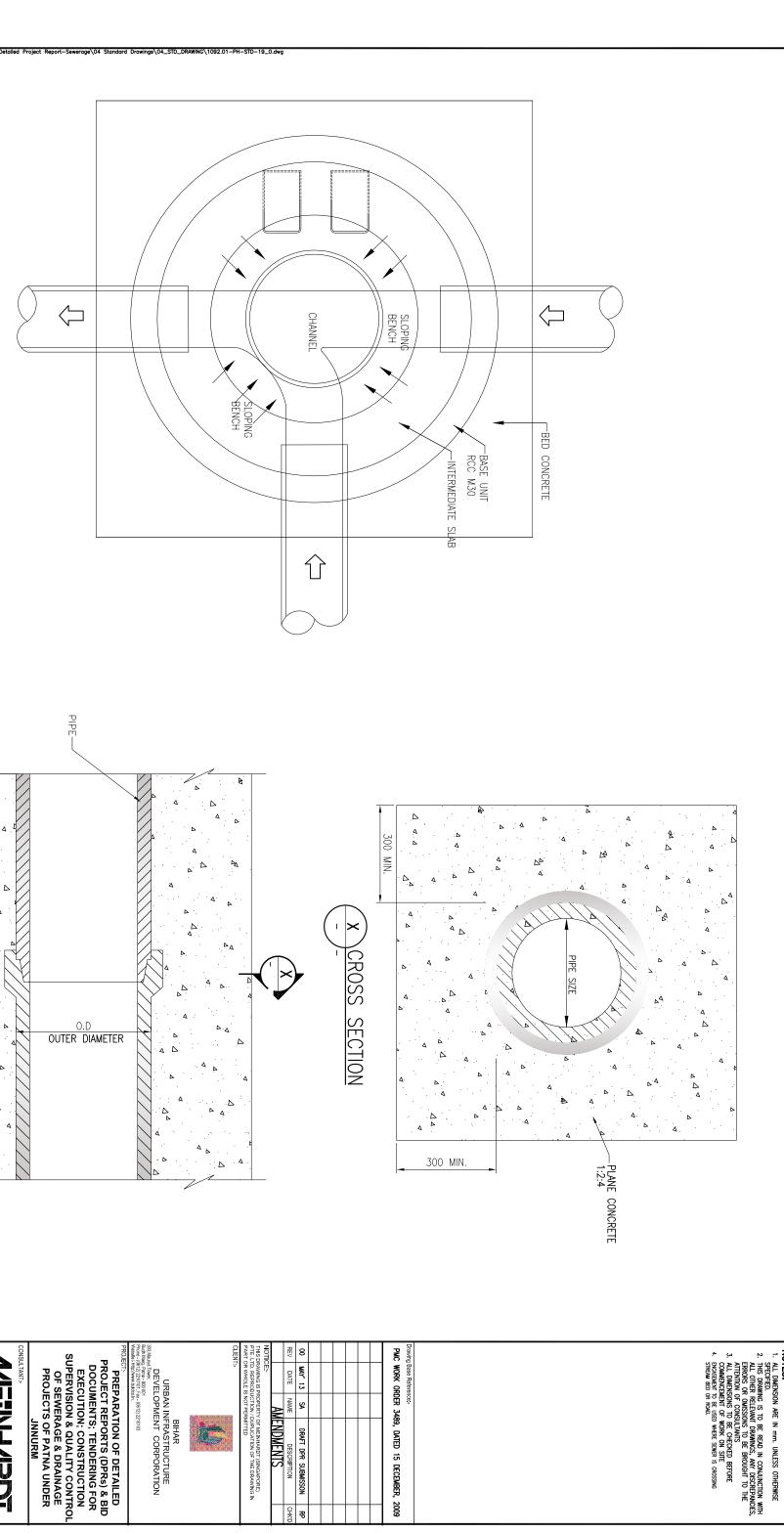
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MAY' 13

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CHANNEL INVERT AT ENDS TO MATCH WITH IL OF INCOMING/OUTGOING PIPES— CHANNEL BOTTOM TO SLOPE WHERE IL OF PIPES DIFFER

PLANE CONCRETE 1:2:4

MANHOLE DETAIL AT PIPE JUNCTION & ENCASING DETAIL OF SEWER UNDER STREAM BED & ROAD CROSSING DRAFT DETAILED PROJECT REPORT

ONGITUDINAL SECTION

(TYPICAL

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PIPE

UNDER STREAM BED

& ROADS)

APPROVED JOB NO. CHECKED

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SHEET SIZE: A3

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MAY 2013
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