

Digitally signed by
NISHANT SHEKHAR
DN: cn=NISHANT
SHEKHAR, o=BHEL,
ou=PS-PEM,
email=nishantshekhar
@bhel.in, c=IN
Date: 2020.02.27
09:07:38 +05'30'

1) BHEL may please note that all applicable input drawings are currently in the process of review/ yet to be submitted/ not submitted with unit currently developing this drawing and with other units of BHEL. In view of all this for any interference of utilities (cables, piping, ducts, Equipment placing, etc.,). Orientation & coordinate for THIS area shall be checked by BHEL currently developing this drawing and with other units of BHEL. If there is any interference at later date which may lead to major revision in drawings & design; the same shall be ensured and incorporated in relevant drawings at BHEL's end. M/s BHEL shall stand guarantee for the final civil drawings based on input data considered. Any short comings/deviations from these resulting in cost and time over runs shall be borne solely by M/s BHEL. The Owner TSGENCO and consultant M/s TCE would not be party to such eventuality. Any eventual changes in sizing/civil works shall be taken up by M/s BHEL without affecting the project schedule. The risk will be solely on M/s BHEL.

2) Any changes or modifications carried out during engineering affecting drawing shall be reflected and incorporated by BHEL without any time and cost implications. Any update that is required in this drawing shall be reflected in applicable drawings in the as built drawings.

FILE NAME : X:\760\YADADRI\NCT\WORKING\760-E-DD-003.R1.dwg

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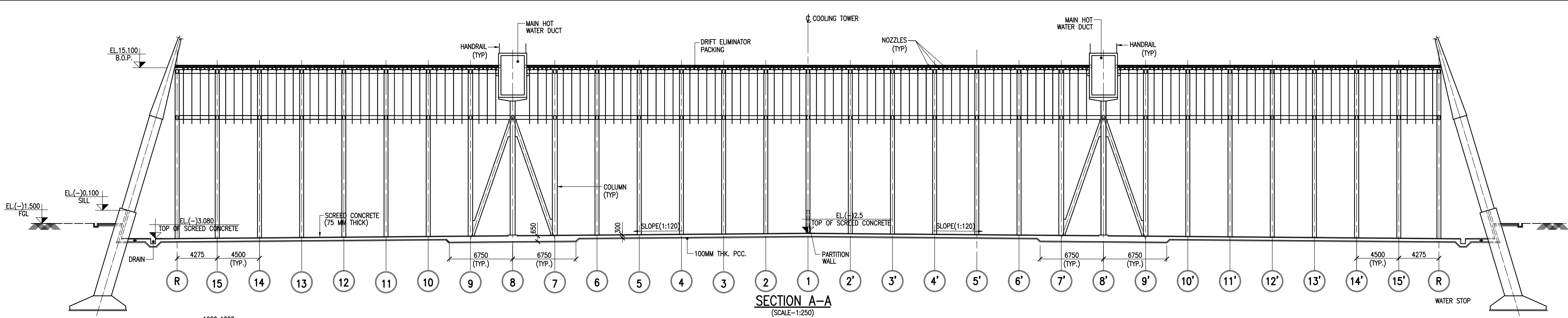
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A

<div>CUSTOMER</div> <div> TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA</div>		<div>EPC CONTRACTOR</div> <div> BHARAT HEAVY ELECTRICALS LIMITED</div>		<div> SPECTRUM Techno Consultants Pvt Ltd <small>Nori Mumbai - India</small></div>		<div>DESIGN BY : DBL</div> <div>CHECKED BY : JHB</div> <div>APPROVED BY : UKR</div> <div>DATE 25/01/2020</div> <div>SCALE AS SHOWN</div>		<div>TITLE</div> <div>GENERAL ARRANGEMENT OF FILL SUPPORTING STRUCTURE</div> <div>STCPL DRG.NO. 760-E-DD-003</div> <div>BHEL DRG.NO. PE-V1-417-165-N026 (SHEET 1 OF 4)</div> <div>THE DRAWING IS THE PROPERTY OF SPECTRUM Techno Consultants Pvt Ltd IT IS SUBJECT TO THEIR RECALL, AND MUST NOT BE REPRODUCED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.</div>		<div>REV.NO. R1</div>	
<div>CONSULTANT</div> <div> TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA</div>		<div>PROJECT</div> <div>5x800 WM YADADRI THERMAL POWER STATION</div>									

SHEET SIZE : A1

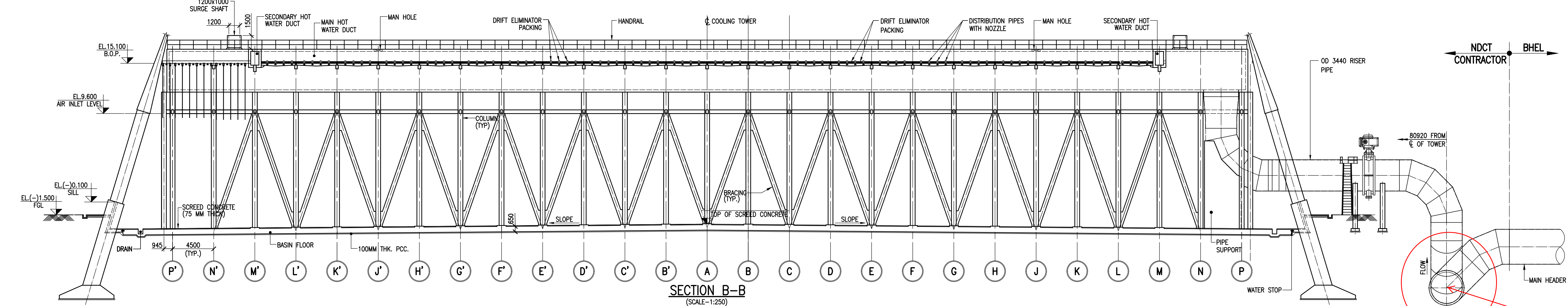
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
3. THIS SHEET MUST BE READ IN CONJUNCTION WITH SHEET NO. 1, 3 & 4 OF THIS DRAWING.

**TATA CONSULTING ENGINEERS LIMITED
VENDOR DOCUMENT REVIEW STATUS**

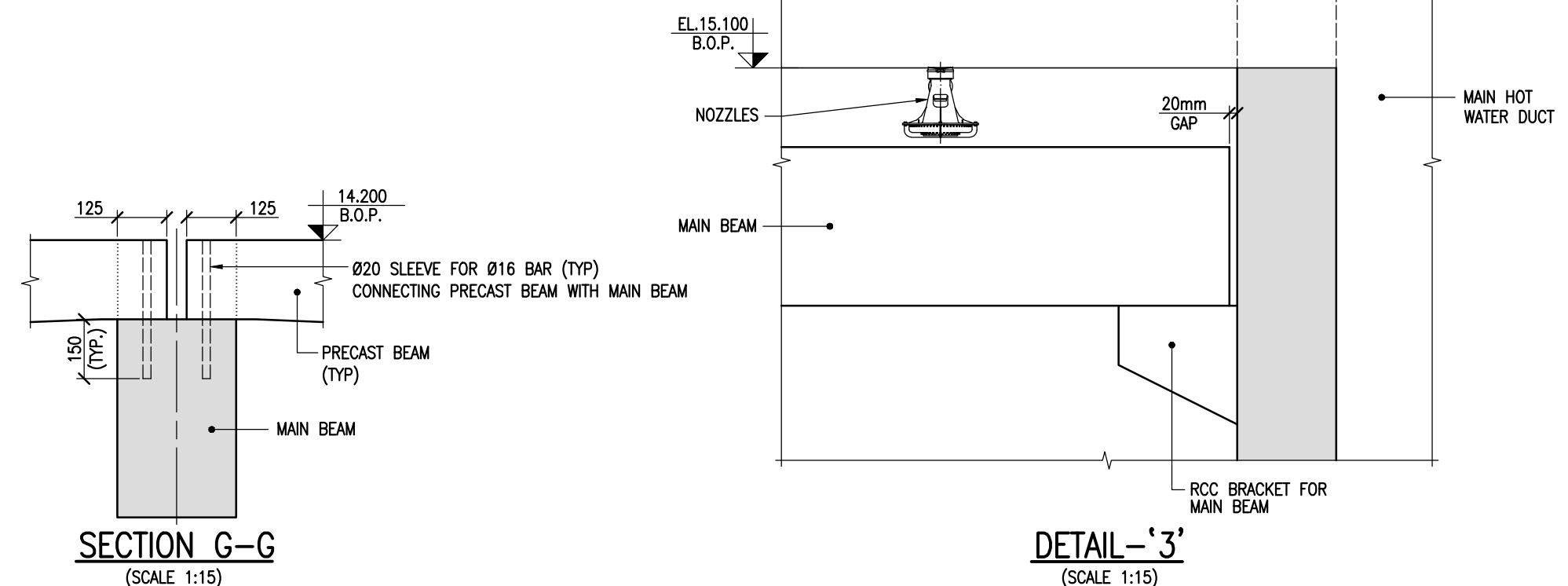
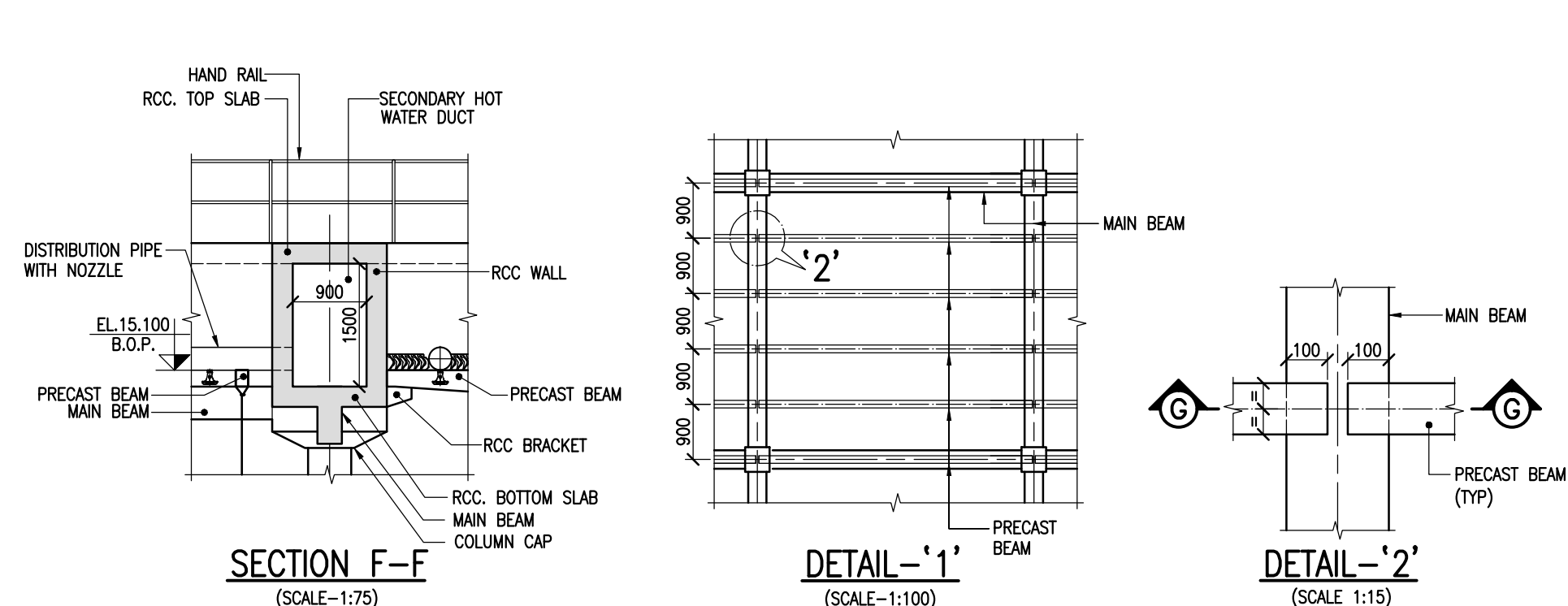
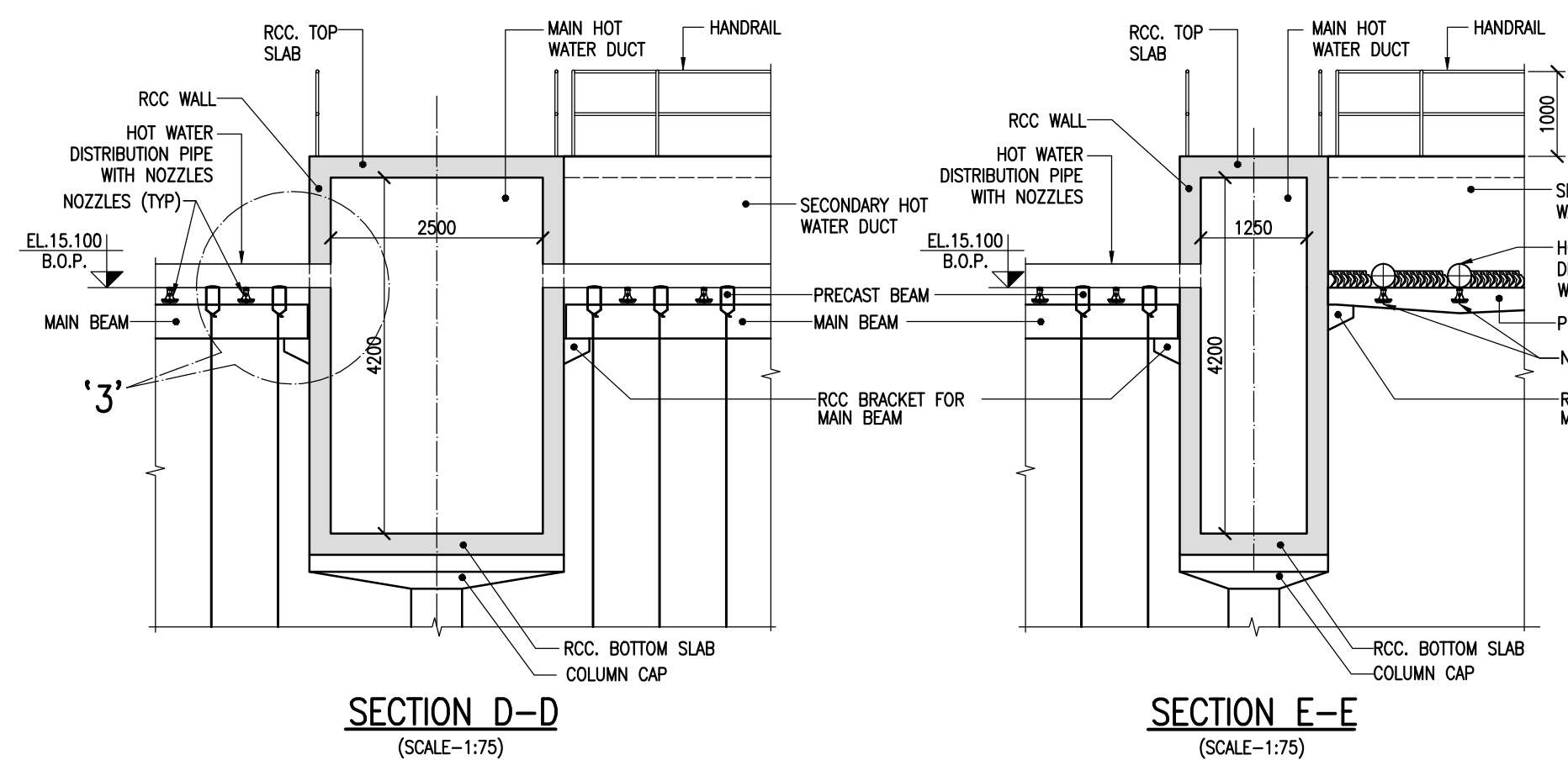
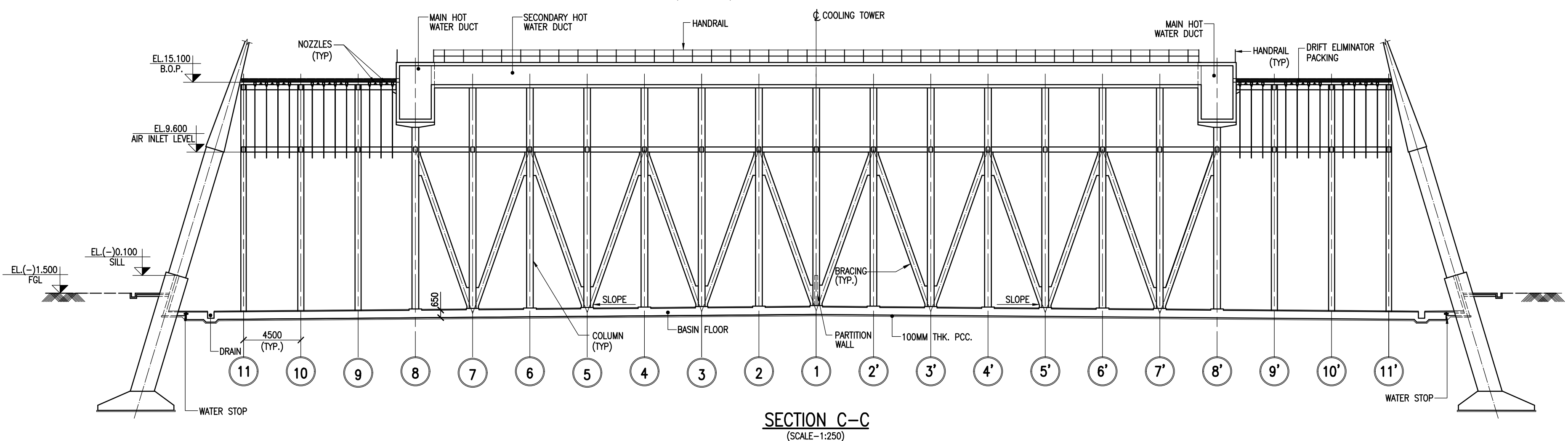
- ☐ A Drawing/Document approved as submitted. Proceed with fabrication/construction.
☒ B Drawing/Document approved subjected to comments noted. Proceed with fabrication/construction considering our comments.
☐ C Our comments are noted on this marked up print.
☐ D Our comments are noted in memo attached to the forwarding transmittal letter No. TCE.11005A-CV-VOT-322, Dated 19-03-2020.
☐ E Correct original of this drawing/document to reflect our comments and resubmit for approval.
☐ F Correct original of this drawing/document to reflect our comments and resubmit for records.
☐ G Drawings/Documents of this category are for information only and not for approval. Information furnished on the drawing/document is noted.
☒ H Drawing/Document reviewed against our previous comments and other revisions highlighted and identified by the vendor.
☐ I Drawing/Document returned without review.
☐ J Print not enclosed.
- Approval conveyed herein neither relieves the Vendor/Contractor of his contractual obligations and his responsibilities for correctness of dimensions, materials of construction, weights, quantities, design details, assembly fits, performance requirements and conformity of the supplies with the Indian Statutory Laws as may be applicable, nor does it limit the purchaser's rights under the contract.
- Reviewed by.....Date.....19-03-2020



**THRUST BLOCK
SHALL BE
PROVIDED**

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BHEL - PROJECT ENGINEERING MANAGEMENT
**THIS DRAWING IS
RELEASED FOR
CONSTRUCTION**
STAMP ALL PREVIOUS REVISIONS AS SUPERSEDED
ISSUED BY
NAME: SACHIN JAIN
SIGNATURE: -Sa-
DATE: 09/11/2020



FILE NAME: X:\760\YADADRI\NDCT\WORKING\760-E-DD-003.R1.dwg

CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA		EPC CONTRACTOR BHARAT HEAVY ELECTRICALS LIMITED		SPECTRUM Techno Consultants Pvt Ltd		DESIGN BY : DBL	TITLE GENERAL ARRANGEMENT OF FILL SUPPORTING STRUCTURE
CONSULTANT TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		PROJECT 5x800 WM YADADRI THERMAL POWER STATION		APPROVED BY : UKR		CHECKED BY : JHB	STCPL DRG.NO. : 760-E-DD-003
REV. NO. DATE DESCRIPTION DRAWN		R1 25/01/20 REVISED AS PER TCE COMMENTS DATED 23 JAN 2020 DOS		DATE 25/01/2020		DATE 25/01/2020	BHEL DRG.NO. : PE-V1-417-165-N026 (SHEET 2 OF 4)
REV. NO. DATE DESCRIPTION DRAWN		R1 30/08/18 FOR APPROVAL SSB		SCALE AS SHOWN		REV. NO. R1	REV. NO. R1

SHEET SIZE : A1



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☒ H Drawing/Document reviewed against our previous comments and other revisions highlighted and identified by the vendor.





☐ I Drawing/Document returned without review.

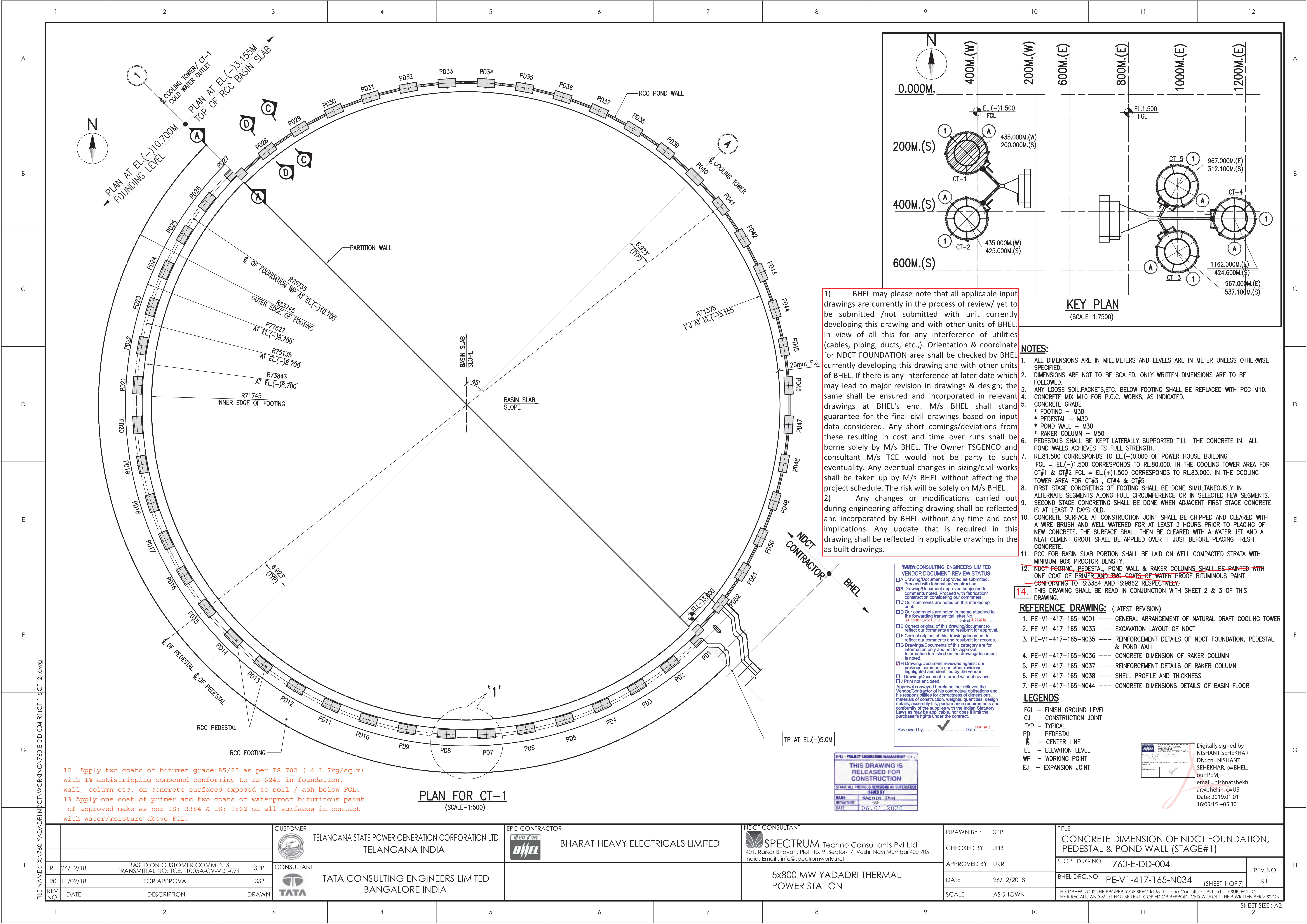
☐ J Print not enclosed.

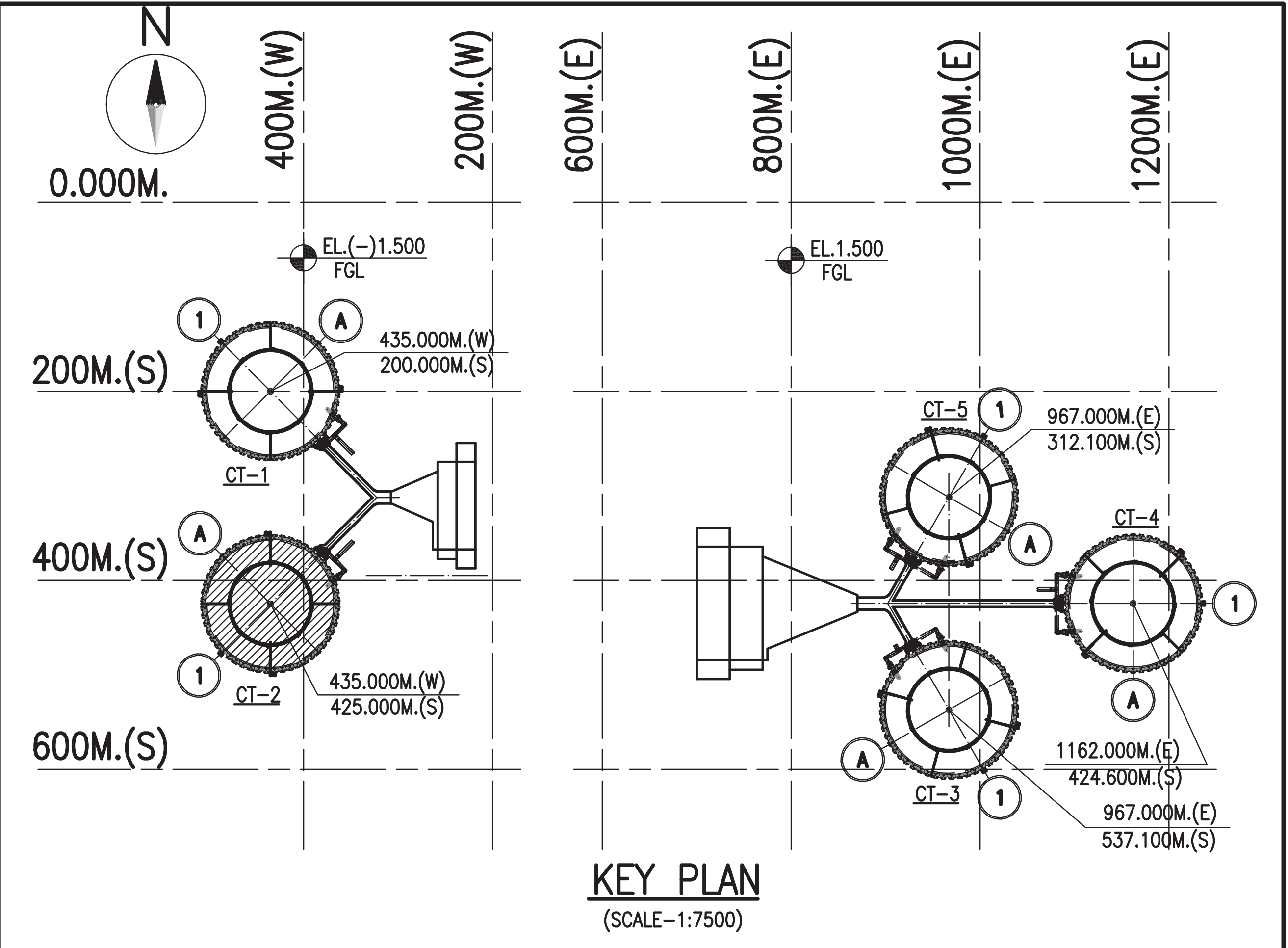
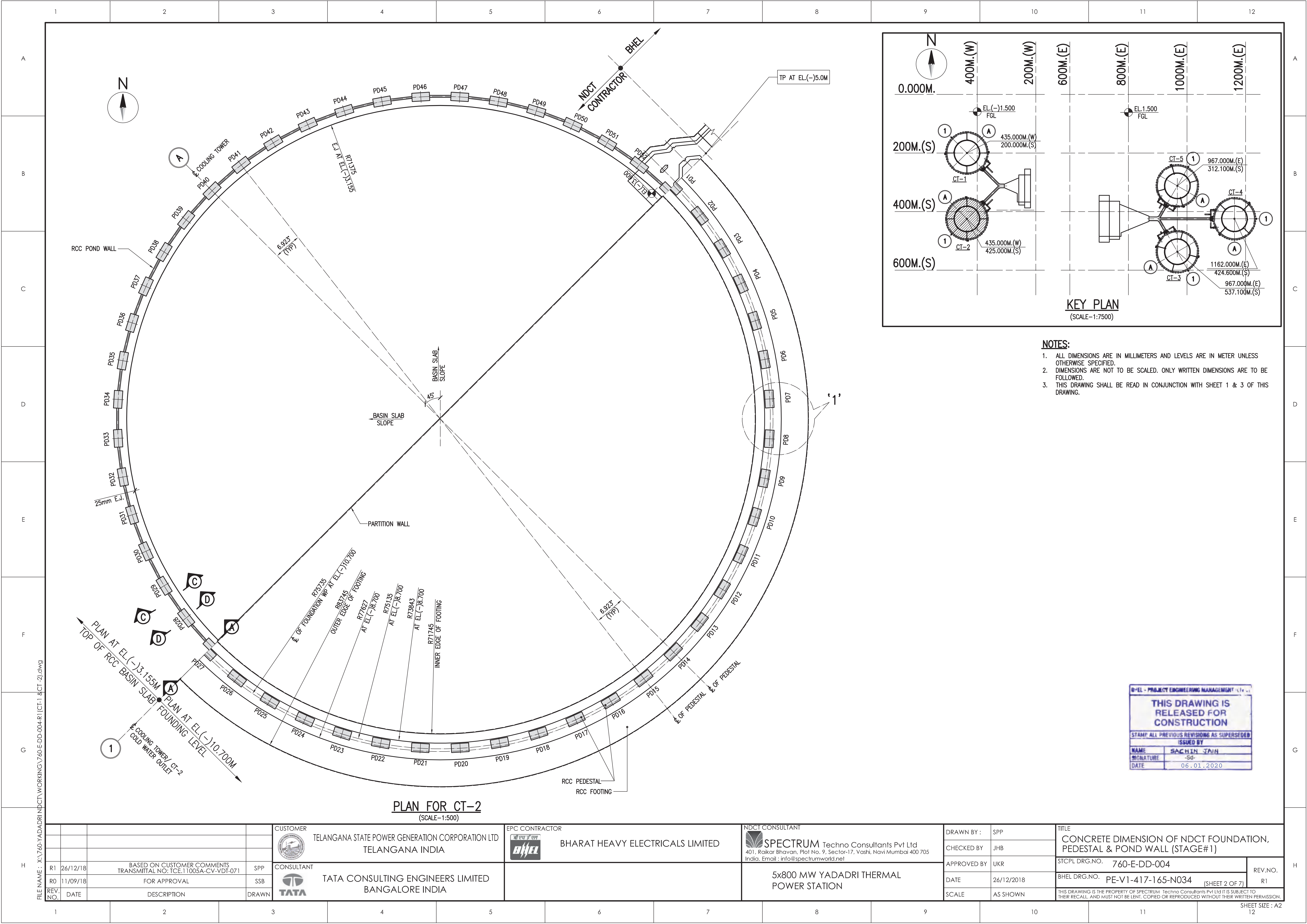
Approval conveyed herein neither relieves the Vendor/Contractor of his contractual obligations and his responsibilities for correctness of dimensions, materials of construction, weights, quantities, design details, performance requirements and conformity of the supplies with the Indian Statutory Laws as may be applicable, nor does it limit the purchaser's rights under the contract.

BHEL - PROJECT ENGINEERING MANAGEMENT DIV.	
THIS DRAWING IS RELEASED FOR CONSTRUCTION	
STAMP ALL PREVIOUS REVISIONS AS SUPERSEDED	
ISSUED BY	
NAME	SACHIN JAIN
SIGNATURE	-Sd-
DATE	09/11/2020

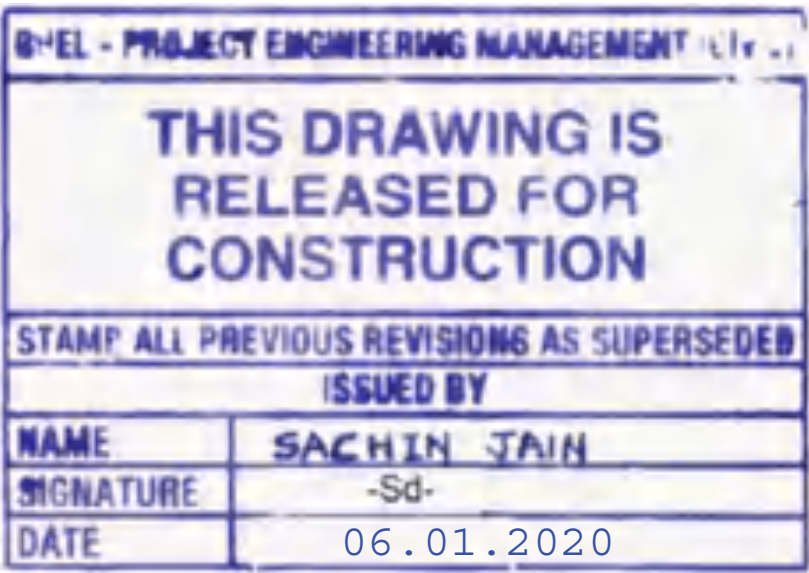
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				CUSTOMER  TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	EPC CONTRACTOR  BHARAT HEAVY ELECTRICALS LIMITED	 SPECTRUM Techno Consultants Pvt Ltd Navi Mumbai - India	DESIGN BY : DBL CHECKED BY : JHB	TITLE GENERAL ARRANGEMENT OF FILL SUPPORTING STRUCTURE	
R1	25/01/2020	REVISED AS PER TCE COMMENTS DATED 23 JAN 2020	DDS	CONSULTANT  TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		PROJECT 5x800 WM YADADRI THERMAL POWER STATION	APPROVED BY : UKR DATE : 25/01/2020 SCALE : AS SHOWN	STCPL DRG.NO. 760-E-DD-003 BHCL DRG.NO. PE-VI-417-165-N026 (SHEET 3 OF 4)	REV.NO. R1
REV.	DATE	DESCRIPTION	DRAWN						



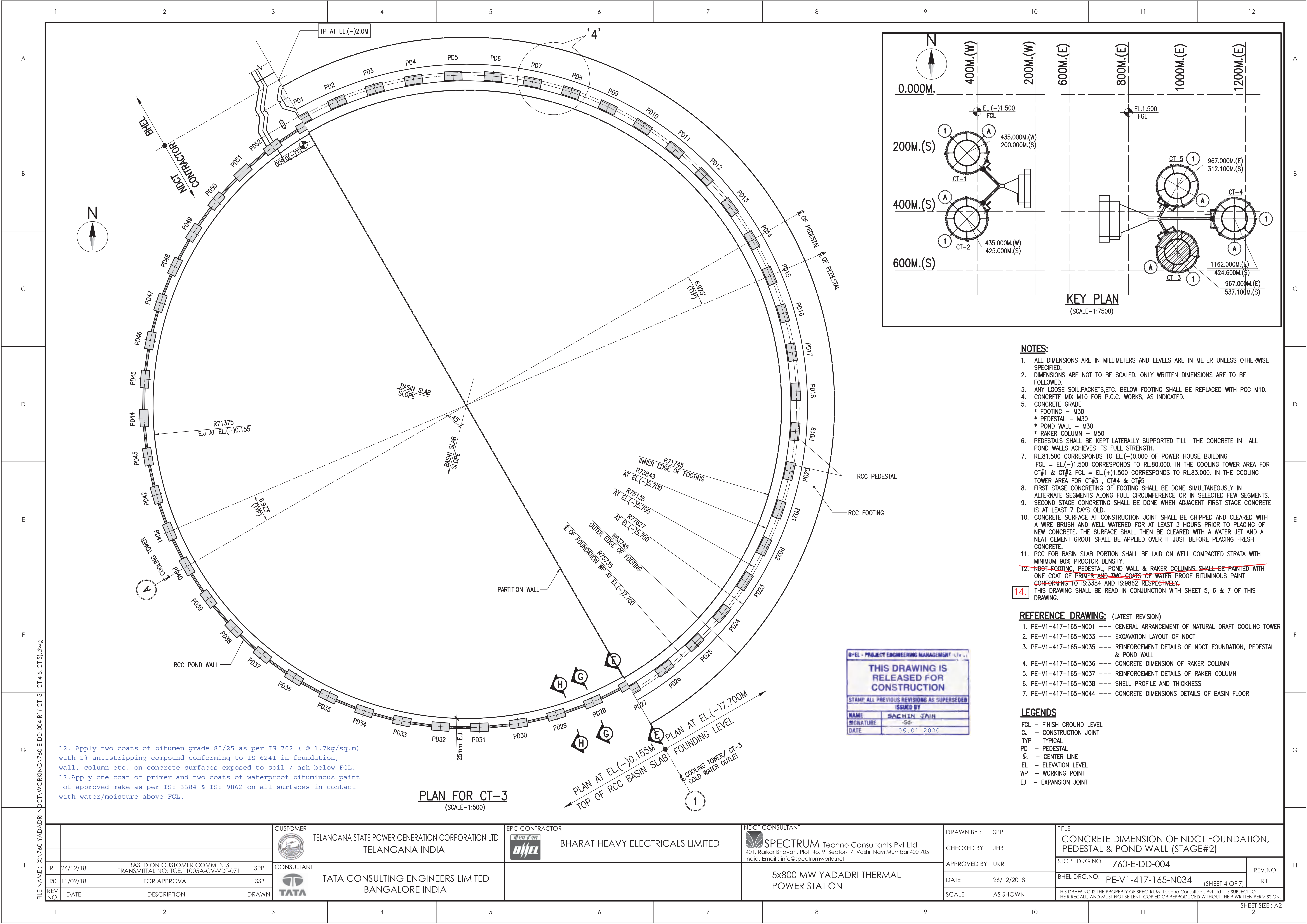


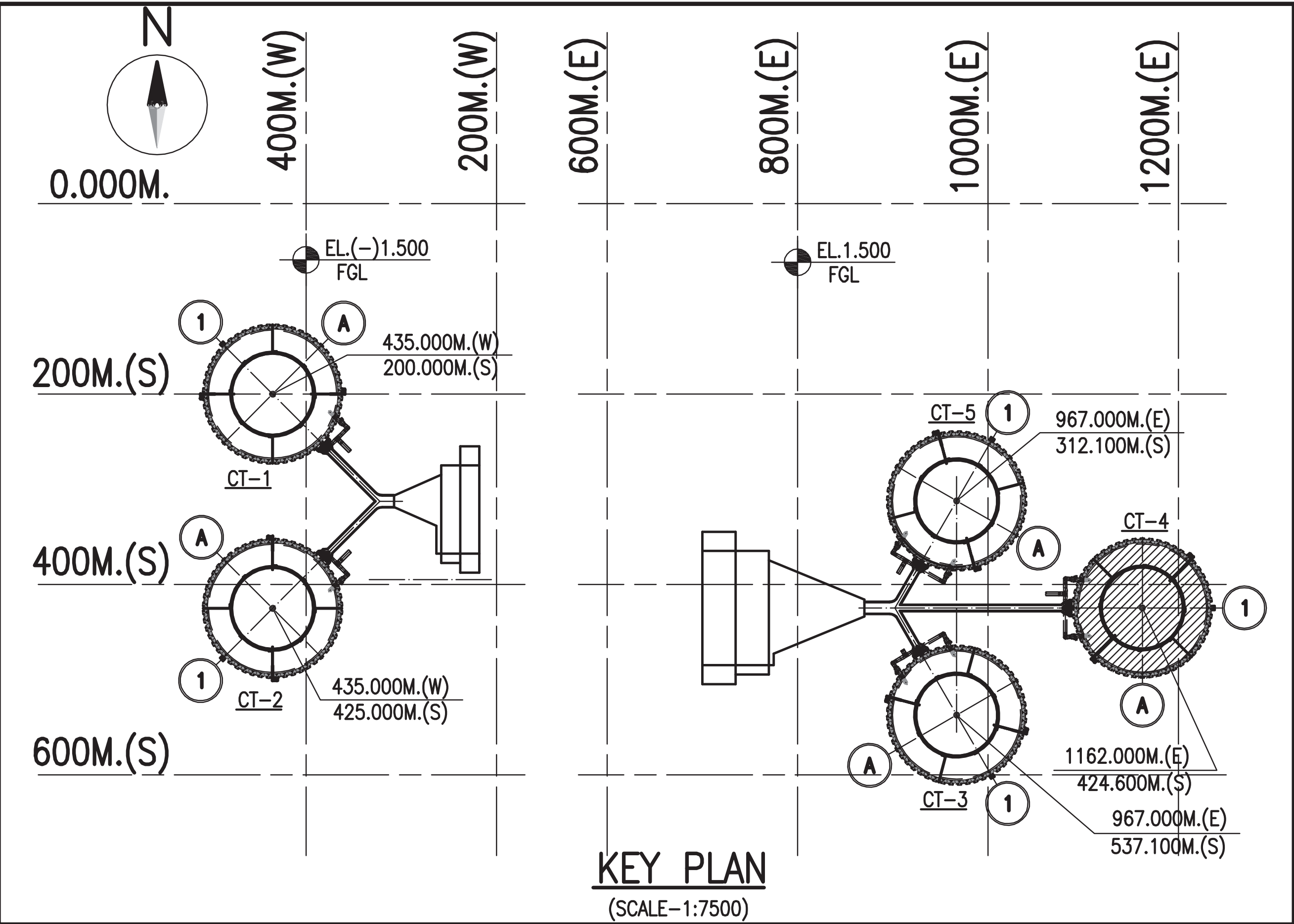
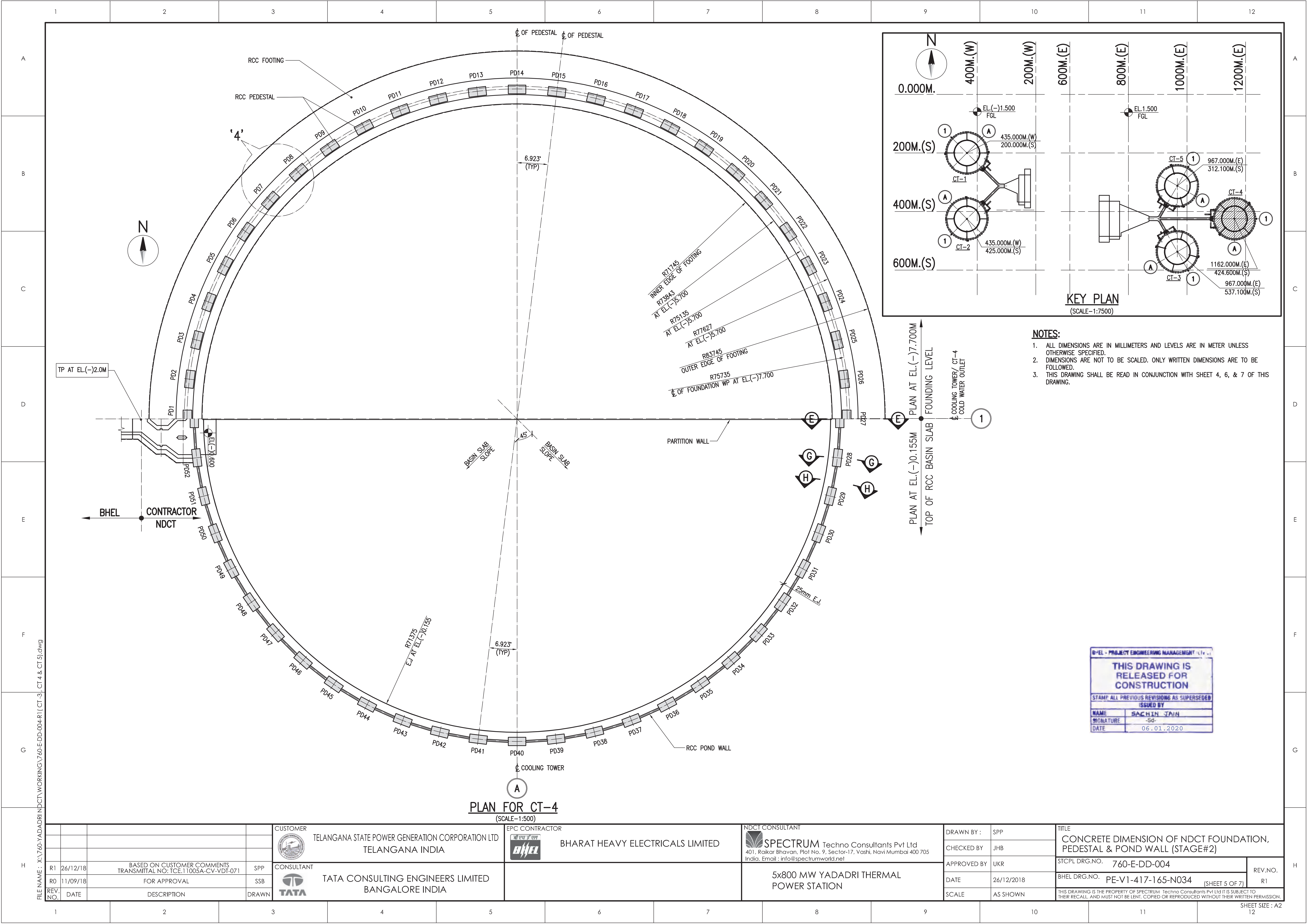
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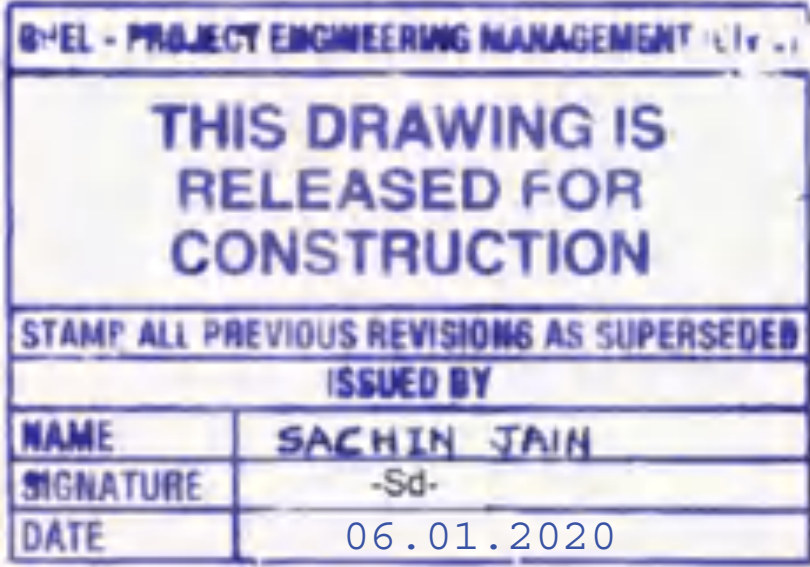
PLAN FOR CT-2
(SCALE-1:500)

FILE NAME : X:\760-YADADRI\NDCT\WORKING\760-E-DD-004-R1\CT-1 & CT-2.dwg		CUSTOMER TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA		EPC CONTRACTOR BHARAT HEAVY ELECTRICALS LIMITED		NDCT CONSULTANT SPECTRUM Techno Consultants Pvt Ltd 401, Raikar Bhavan, Plot No. 9, Sector-17, Vashi, Navi Mumbai 400 705 India. Email : info@spectrumworld.net		DRAWN BY : SPP CHECKED BY : JHB APPROVED BY : UKR DATE : 26/12/2018 SCALE : AS SHOWN		TITLE CONCRETE DIMENSION OF NDCT FOUNDATION, PEDESTAL & POND WALL (STAGE#1) STCPL DRG.NO. 760-E-DD-004 BHEL DRG.NO. PE-V1-417-165-N034 (SHEET 2 OF 7) THIS DRAWING IS THE PROPERTY OF SPECTRUM Techno Consultants Pvt Ltd IT IS SUBJECT TO THEIR RECALL, AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.	
R1	26/12/18	BASED ON CUSTOMER COMMENTS TRANSMITTAL NO: TCE.11005A-CV-VDT-071		SPP	CONSULTANT TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		5x800 MW YADADRI THERMAL POWER STATION		REV.NO. R1		SHEET SIZE : A2 12
R0	11/09/18	FOR APPROVAL		SSB							
REV. NO.	DATE	DESCRIPTION		DRAWN							





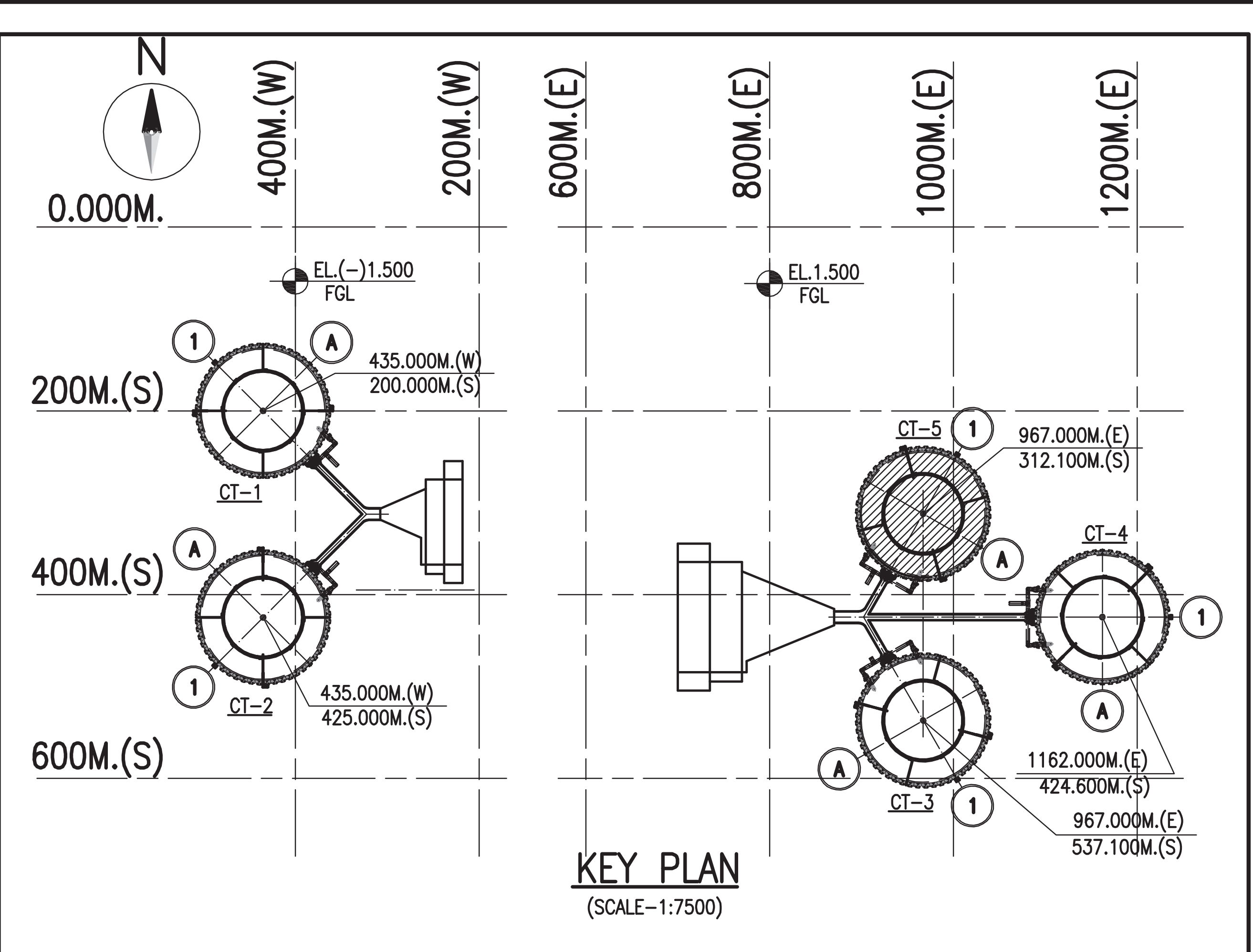
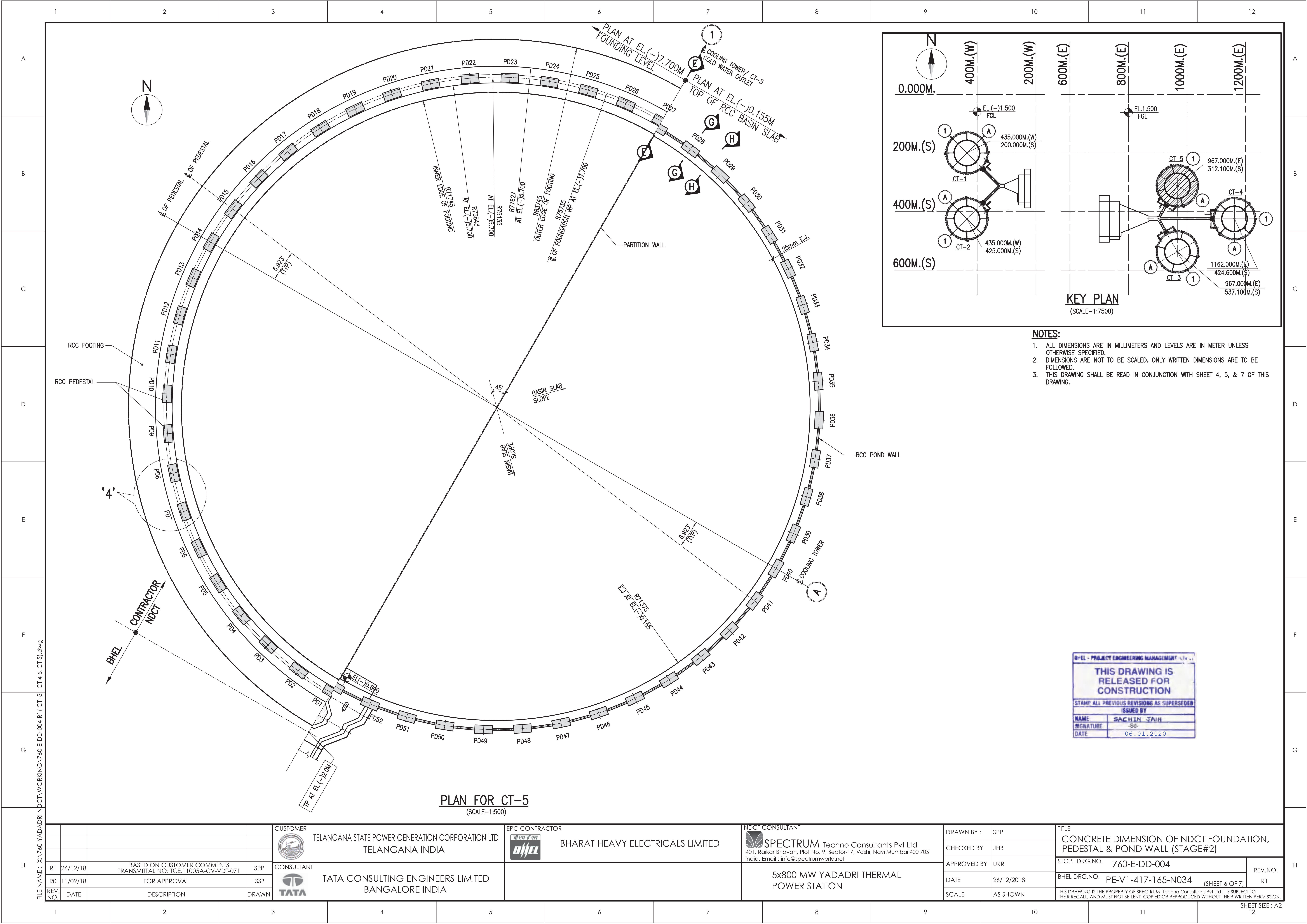
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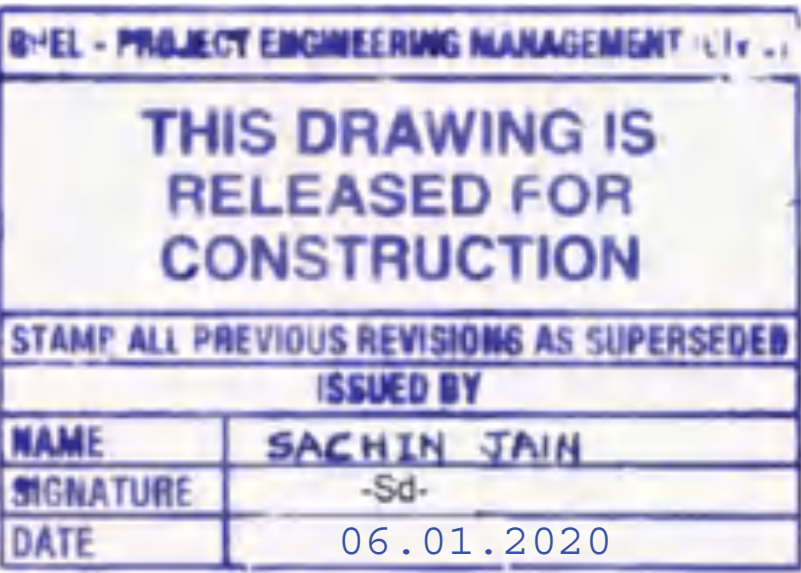
PLAN FOR CT-4
(SCALE-1:500)




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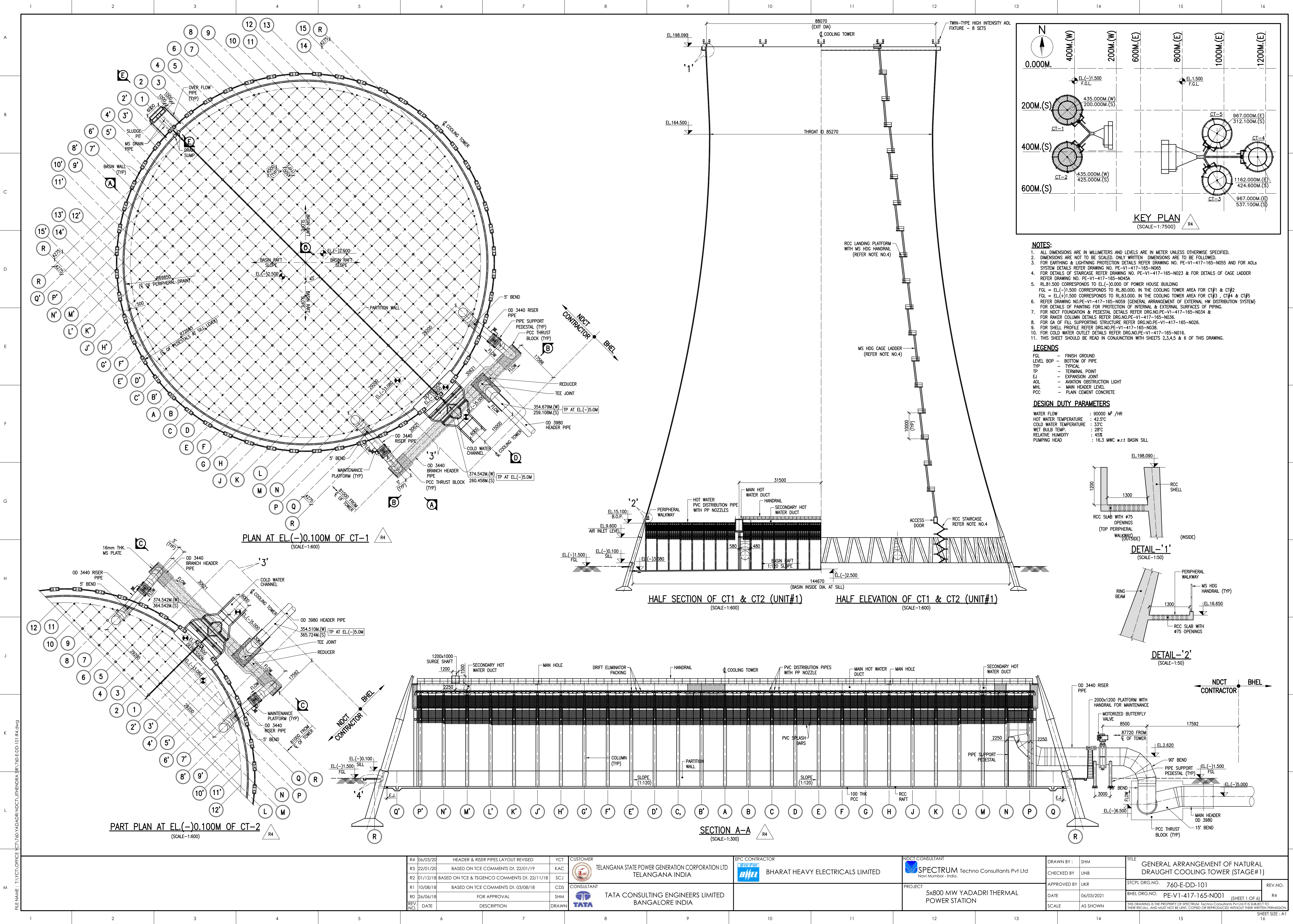
FILE NAME : X:\760-YADADRI NDCT\WORKING\760-E-DD-004-R1 (CT-3, CT 4 & CT 5).dwg



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				<div>CUSTOMER</div> <div> TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA</div>		<div>EPC CONTRACTOR</div> <div> BHARAT HEAVY ELECTRICALS LIMITED</div>		<div>NDCT CONSULTANT</div> <div> SPECTRUM Techno Consultants Pvt Ltd 401, Raikar Bhavan, Plot No. 9, Sector-17, Vashi, Navi Mumbai 400 705 India. Email : info@spectrumworld.net</div>		<div>DRAWN BY :</div> <div>SPP</div>		<div>TITLE</div> <div>CONCRETE DIMENSION OF NDCT FOUNDATION, PEDESTAL & POND WALL (STAGE#2)</div>					
R1 26/12/18				BASED ON CUSTOMER COMMENTS TRANSMITTAL NO: TCE.11005A-CV-VDT-071		SPP		APPROVED BY		UKR		STCPL DRG.NO. 760-E-DD-004		REV.NO.			
R0 11/09/18				FOR APPROVAL		SSB		5x800 MW YADADRI THERMAL POWER STATION		DATE		26/12/2018		BHEL DRG.NO. PE-V1-417-165-N034 (SHEET 6 OF 7)		R1	
REV. NO. DATE				DESCRIPTION		DRAWN				SCALE		AS SHOWN		THIS DRAWING IS THE PROPERTY OF SPECTRUM Techno Consultants Pvt Ltd IT IS SUBJECT TO THEIR RECALL, AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.			

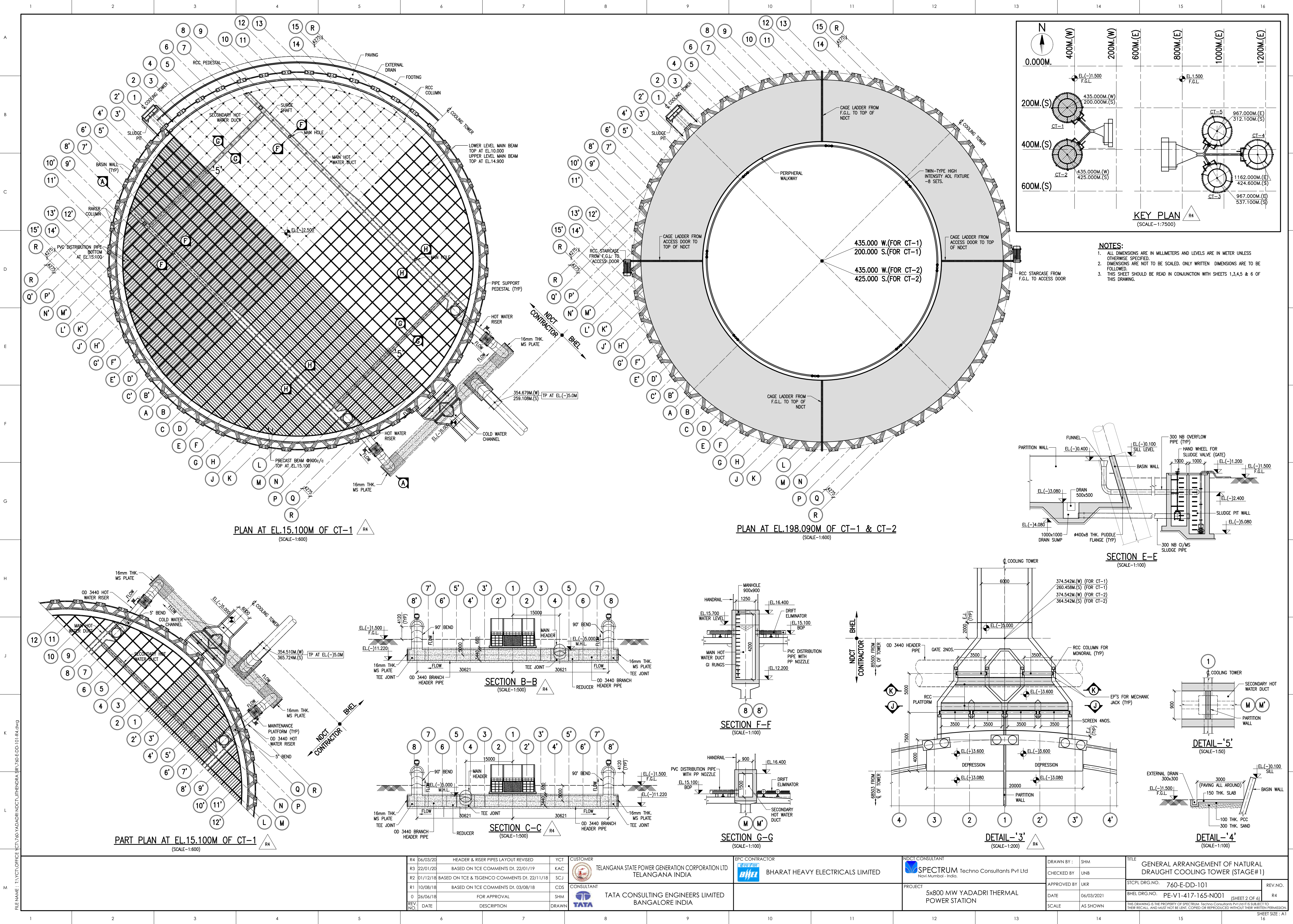


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R4	06/03/20	HEADER & RISER PIPES LAYOUT REVISED	YCT	CUSTOMER	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	EPC CONTRACTOR	NDCT CONSULTANT	DRAWN BY :	SHM	TITLE	GENERAL ARRANGEMENT OF NATURAL DRAUGHT COOLING TOWER (STAGE#1)
R3	22/01/20	BASED ON TCE COMMENTS DI. 22/01/19	KAC					CHECKED BY :	UNB		
R2	01/12/18	BASED ON TCE & TSGENCO COMMENTS DI. 22/11/18	SCJ					APPROVED BY :	UKR		
R1	10/08/18	BASED ON TCE COMMENTS DI. 03/08/18	CDS					DATE	06/03/2021		
RD	26/06/18	FOR APPROVAL	SHM					SCALE	AS SHOWN		
REV/NO	DATE	DESCRIPTION	DRAWN								

TATA	TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA	NDCT CONTRACTOR	BHARAT HEAVY ELECTRICALS LIMITED	NDCT CONSULTANT	SPECTRUM Techno Consultants Pvt Ltd Navi Mumbai - India.	PROJECT	5x800 MW YADRI THERMAL POWER STATION	REVISION	REV. NO.	R4
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SHEET SIZE : A1

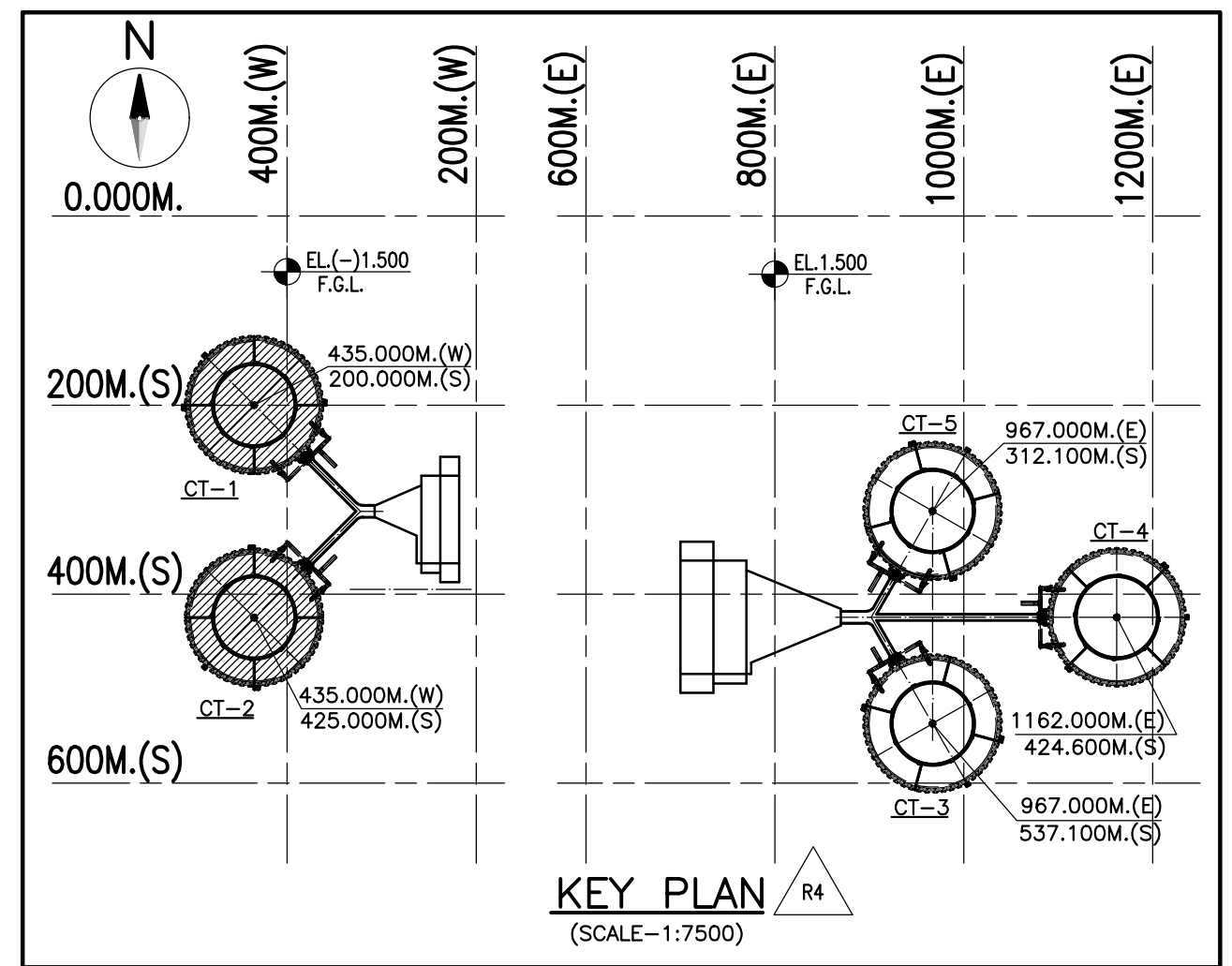
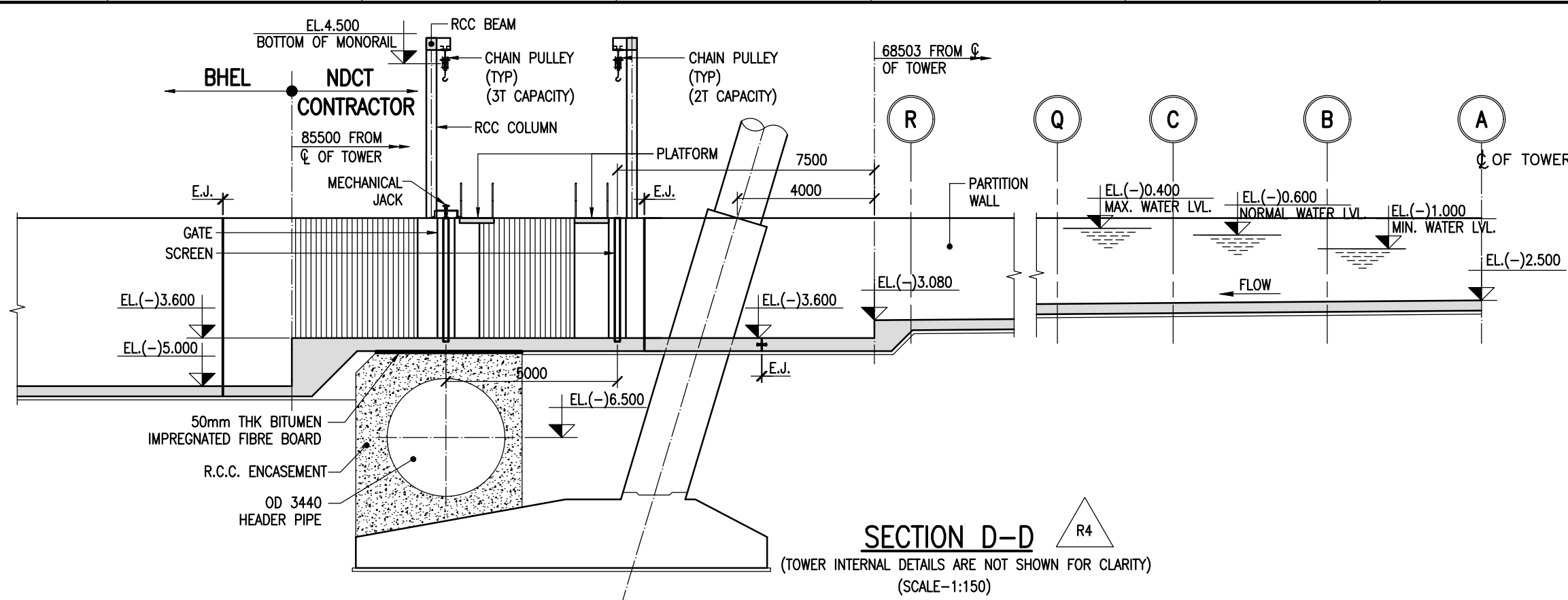


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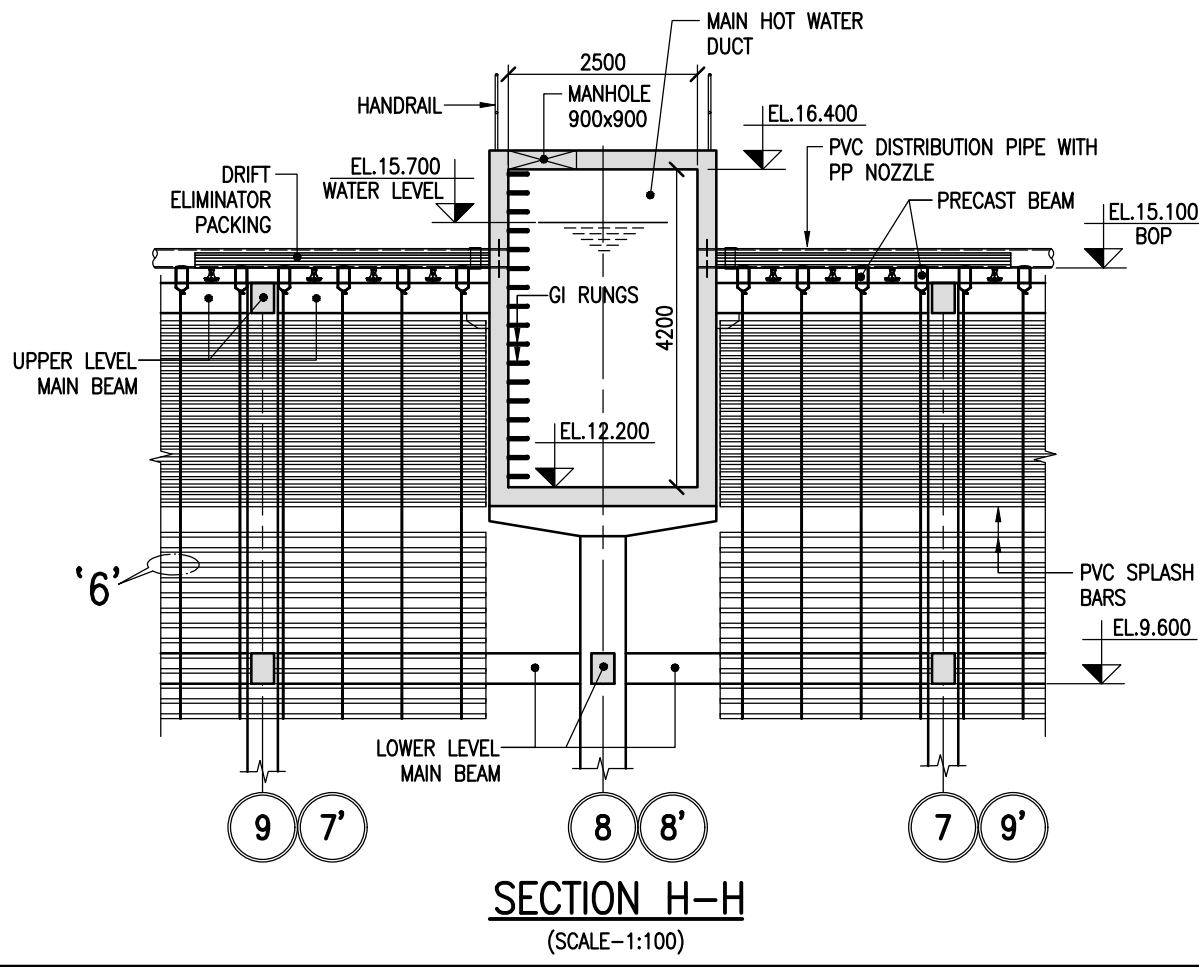
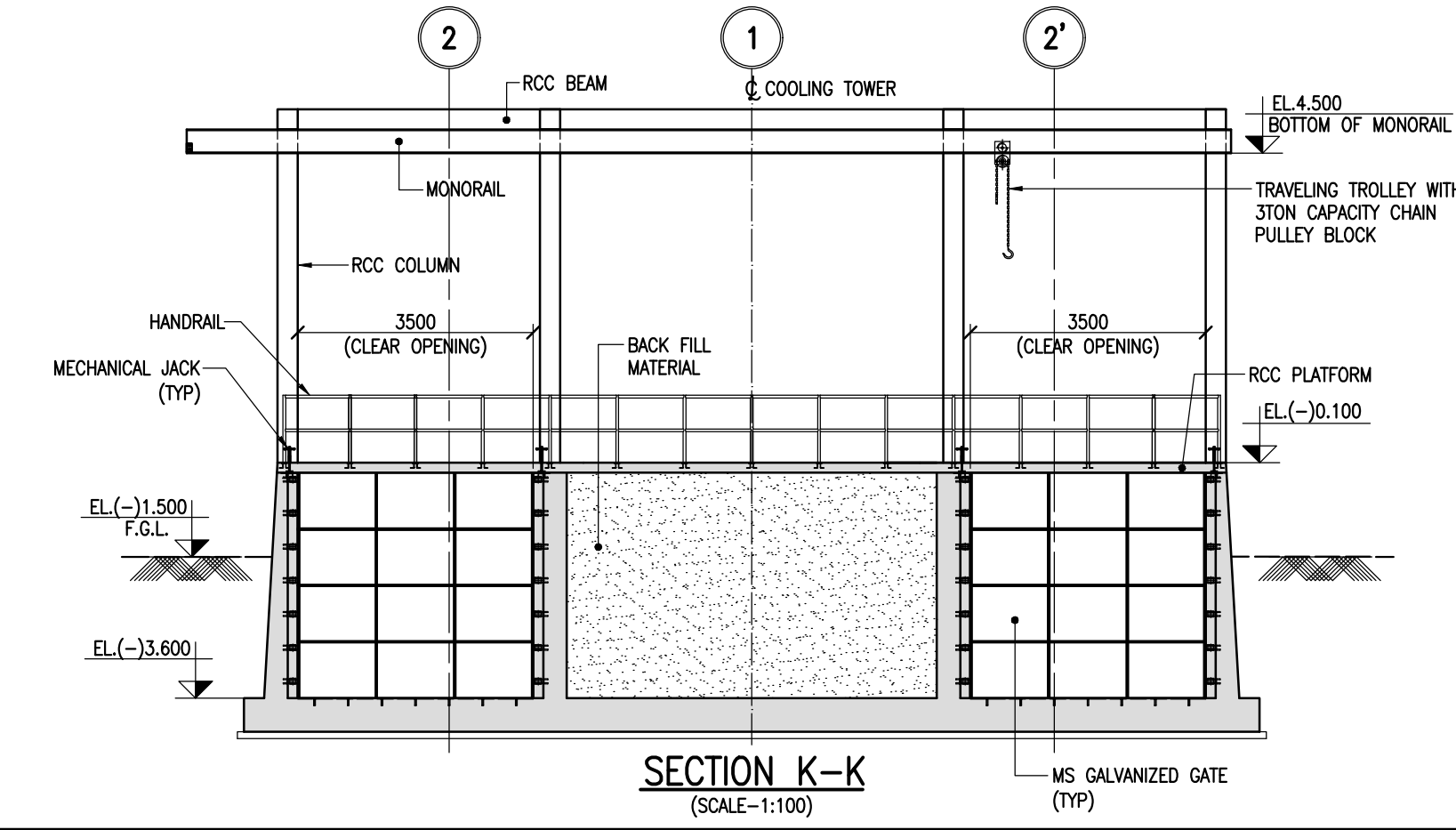
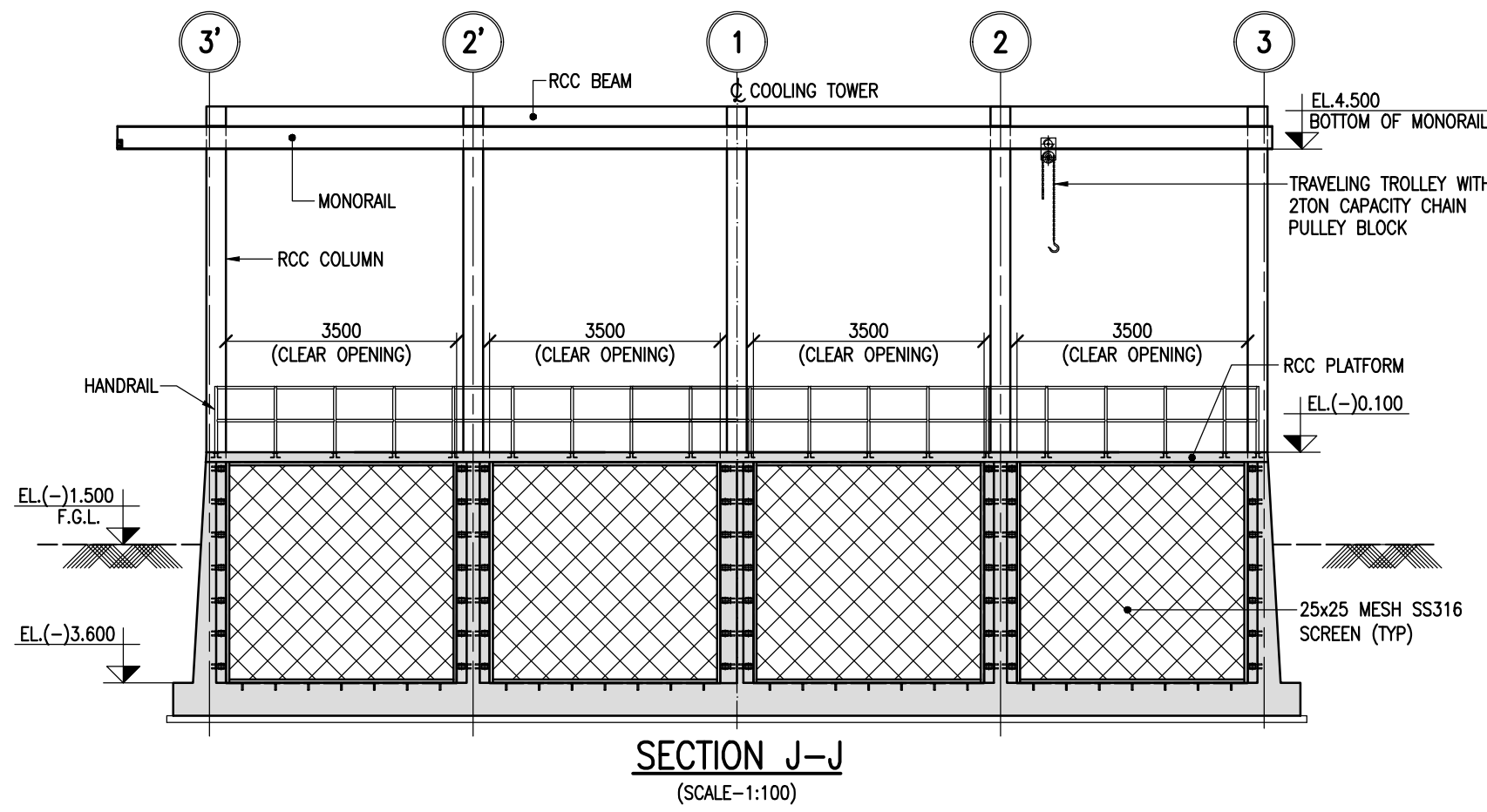
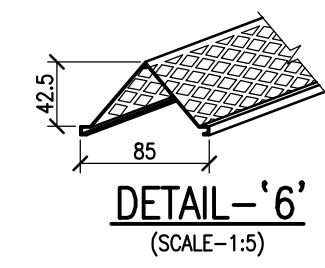
R4	06/03/20	HEADER & RISER PIPES LAYOUT REVISED	YCT	CUSTOMER	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	EPC CONTRACTOR	NDCT CONSULTANT	DRAWN BY :	SHM	TITLE	GENERAL ARRANGEMENT OF NATURAL DRAUGHT COOLING TOWER (STAGE#1)
R3	22/01/20	BASED ON TCE COMMENTS DI. 22/01/19	KAC					CHECKED BY :	UNB		
R2	01/12/18	BASED ON TCE & TSGENCO COMMENTS DI. 22/11/18	SCJ					APPROVED BY :	UKR	STCPL DRG.NO.	760-E-DD-101
R1	10/08/18	BASED ON TCE COMMENTS DI. 03/08/18	CDS					DATE	06/03/2021	BHEL DRG.NO.	PE-V1-417-165-N001
0	26/06/18	FOR APPROVAL	SHM	CONSULTANT	TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		PROJECT	AS SHOWN		(SHEET 2 OF 6)	R4
REV/NO	DATE	DESCRIPTION	DRAWN								

5x800 MW YADADRI THERMAL POWER STATION

SPECTRUM Techno Consultants Pvt Ltd
Navi Mumbai - India.

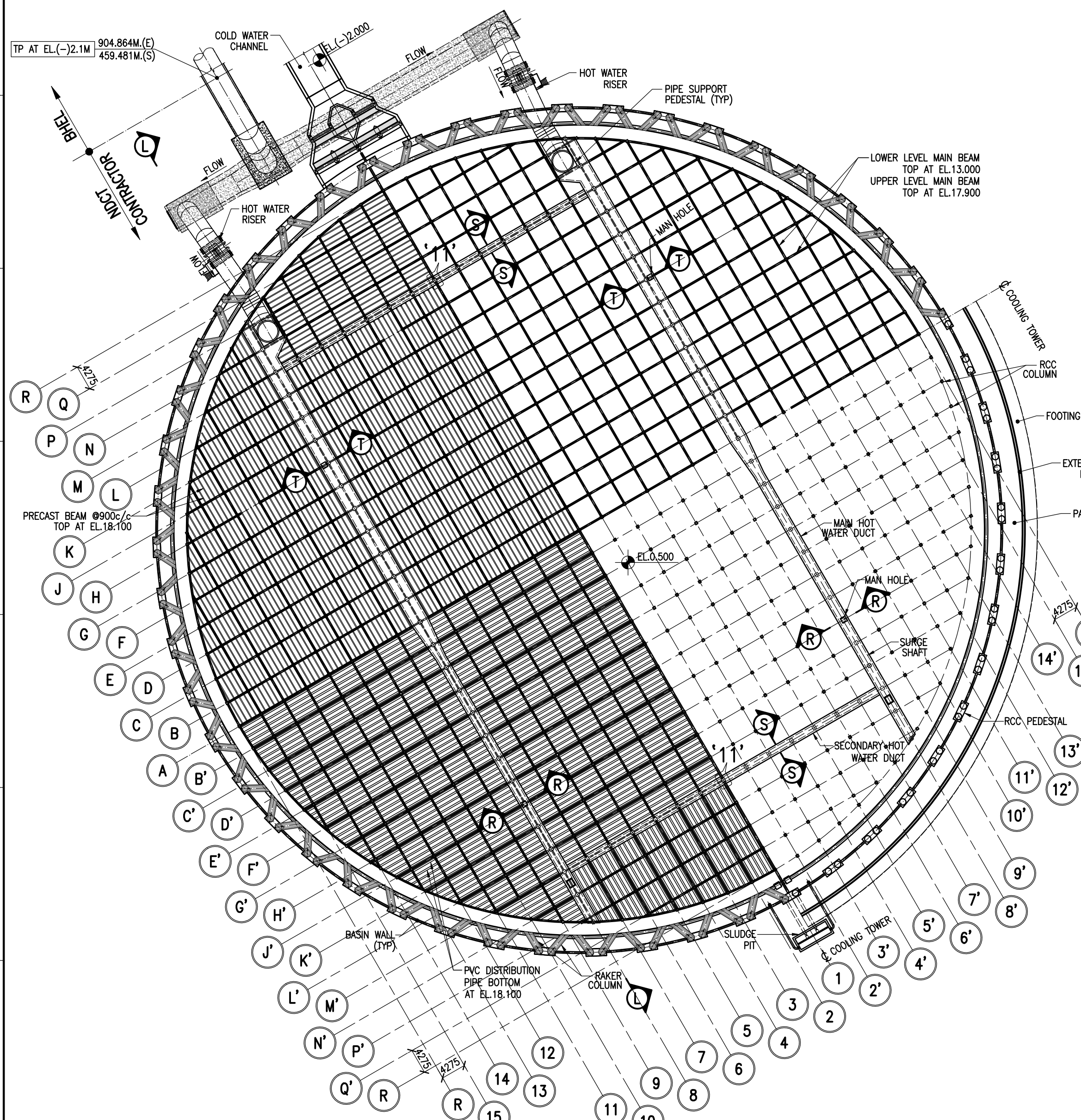


- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
 2. DIMENSIONS ARE NOT TO BE SCALED. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED.
 3. THIS SHEET SHOULD BE READ IN CONJUNCTION WITH SHEETS 1,2,4,5 & 6 OF THIS DRAWING.

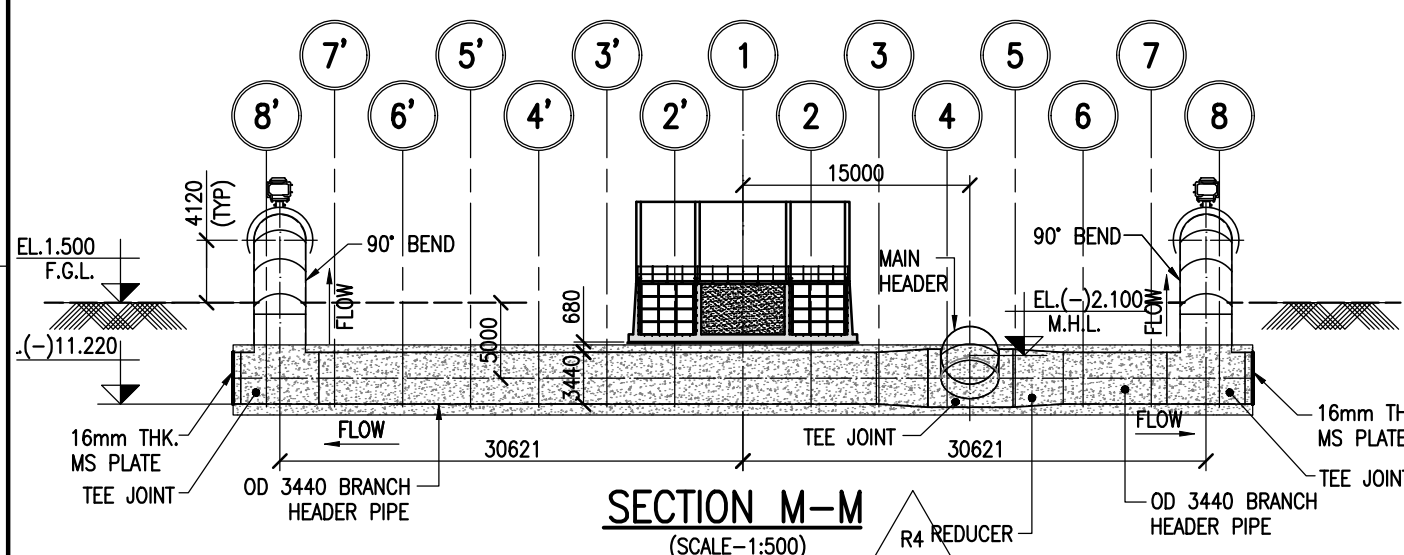


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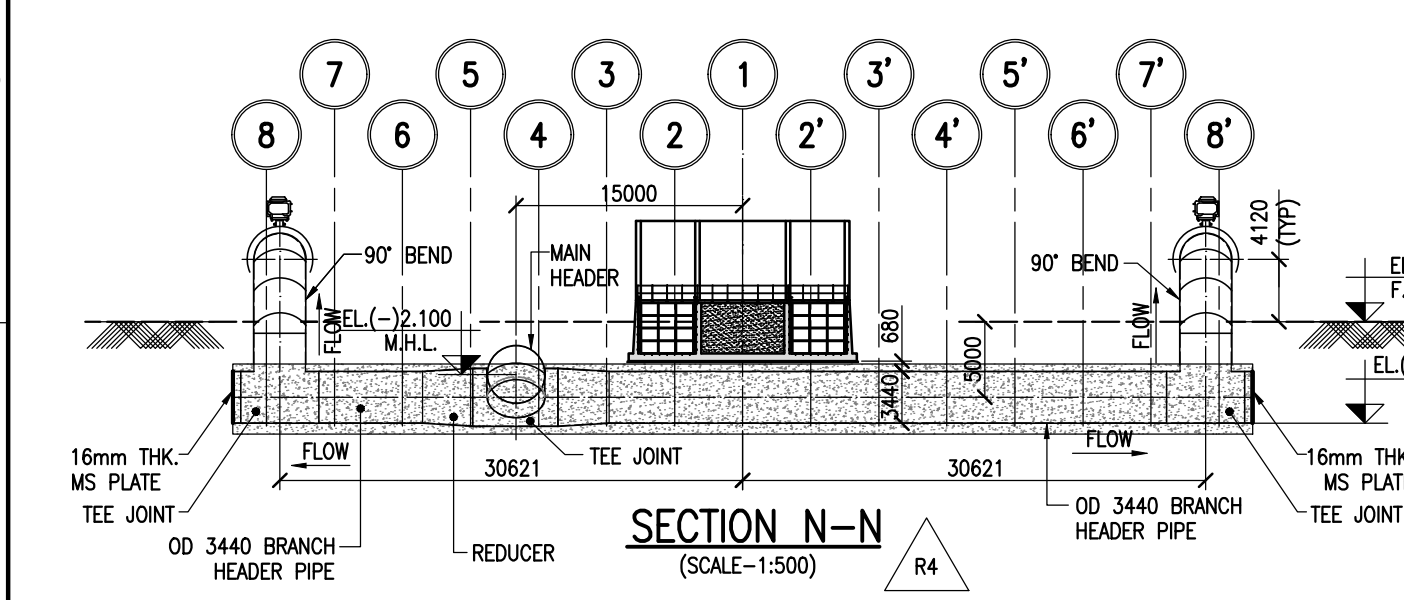
R4	06/03/21	HEADER & RISER PIPES LAYOUT REVISED	YCT	CUSTOMER	EPC CONTRACTOR	NDCT CONSULTANT	DRAWN BY :	SHM	TITLE
R3	22/01/20	BASED ON TCE COMMENTS Dt. 22/01/19	KAC	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	BHARAT HEAVY ELECTRICALS LIMITED	SPECTRUM Techno Consultants Pvt Ltd 401, Raikar Bhavan, Plot No. 9, Sector-17, Vashi, Navi Mumbai 400 705 India. Email : info@spectrumworld.net	CHECKED BY	UNB	GENERAL ARRANGEMENT OF NATURAL DRAUGHT COOLING TOWER (STAGE#1)
R2	01/12/18	BASED ON TCE & TSGENCO COMMENTS Dt. 22/11/18	SCJ	CONSULTANT			APPROVED BY	UKR	STCPL DRG.NO. 760-E-DD-101
R1	10/08/18	BASED ON TCE COMMENTS Dt. 03/08/18	CDS	TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		5x800 MW YADADRI THERMAL POWER STATION	DATE	06/03/2021	BHEL DRG.NO. PE-V1-417-165-N001 (SHEET 3 OF 6)
0	26/06/18	FOR APPROVAL	SHM				SCALE	AS SHOWN	REV.NO. R4
REV. NO.	DATE	DESCRIPTION	DRAWN						THIS DRAWING IS THE PROPERTY OF SPECTRUM Techno Consultants Pvt Ltd IT IS SUBJECT TO THEIR RECALL, AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



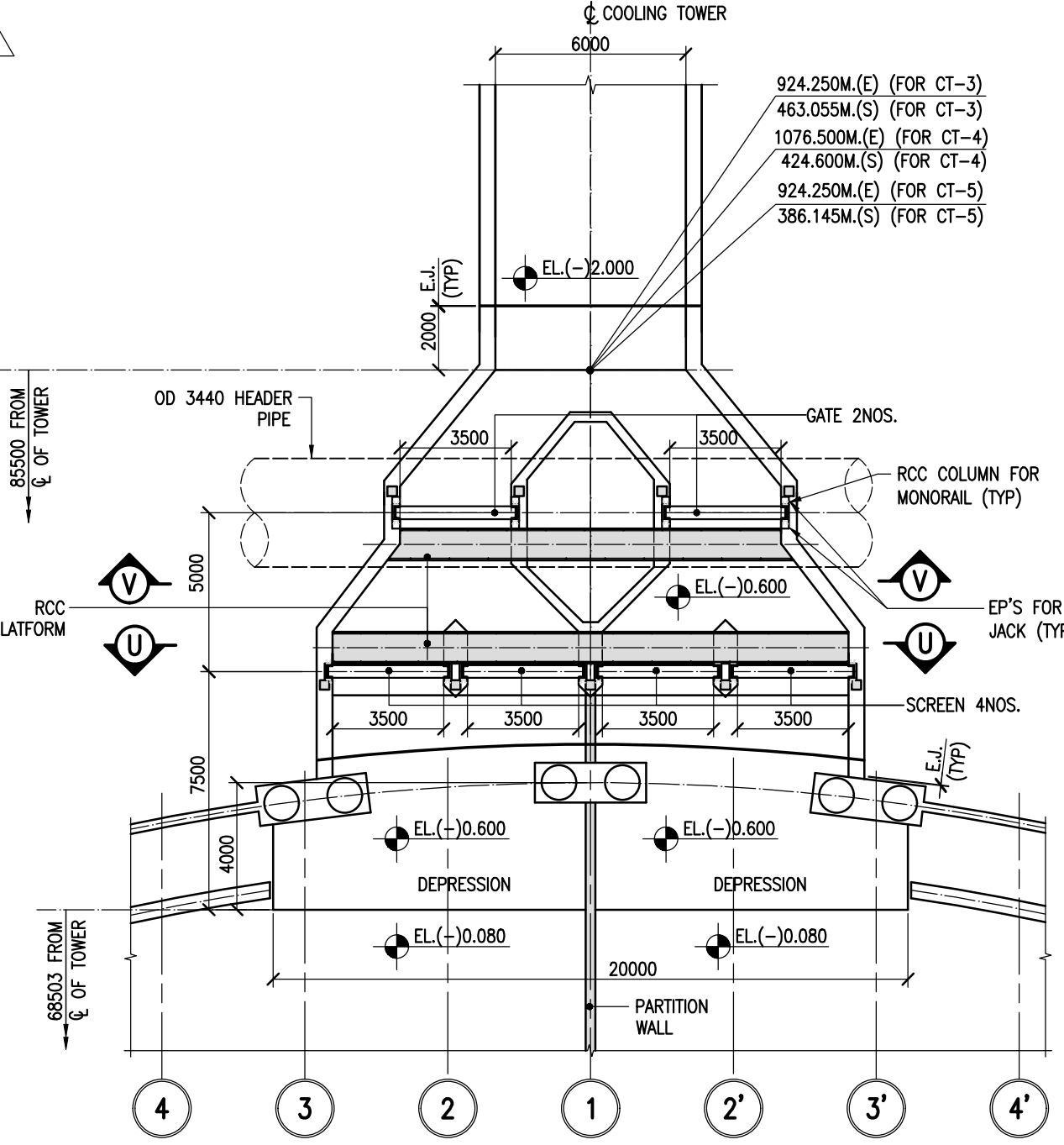
PLAN AT EL.18.100M OF CT-3
(SCALE-1:600)



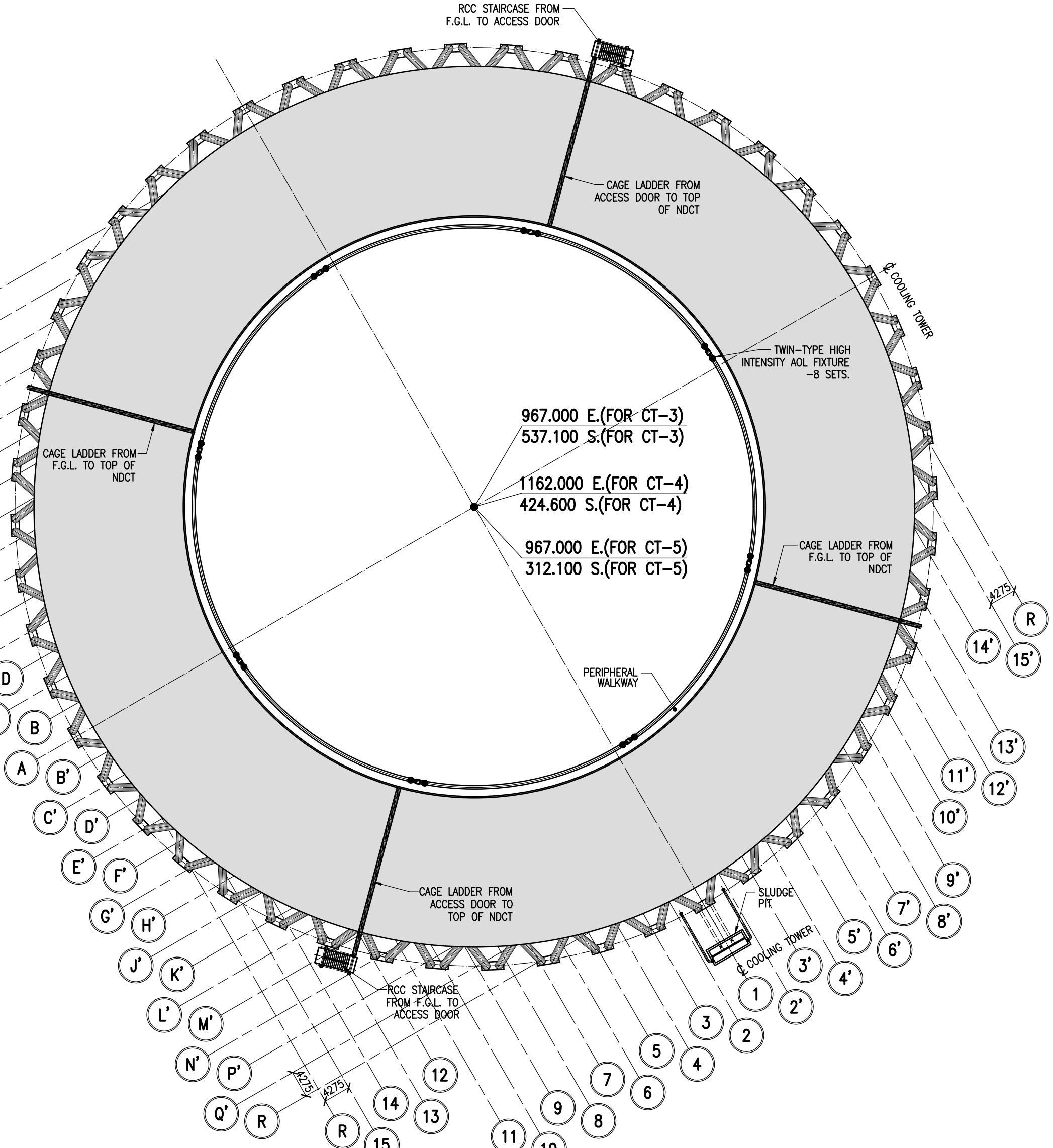
SECTION M-M
(SCALE-1:500)



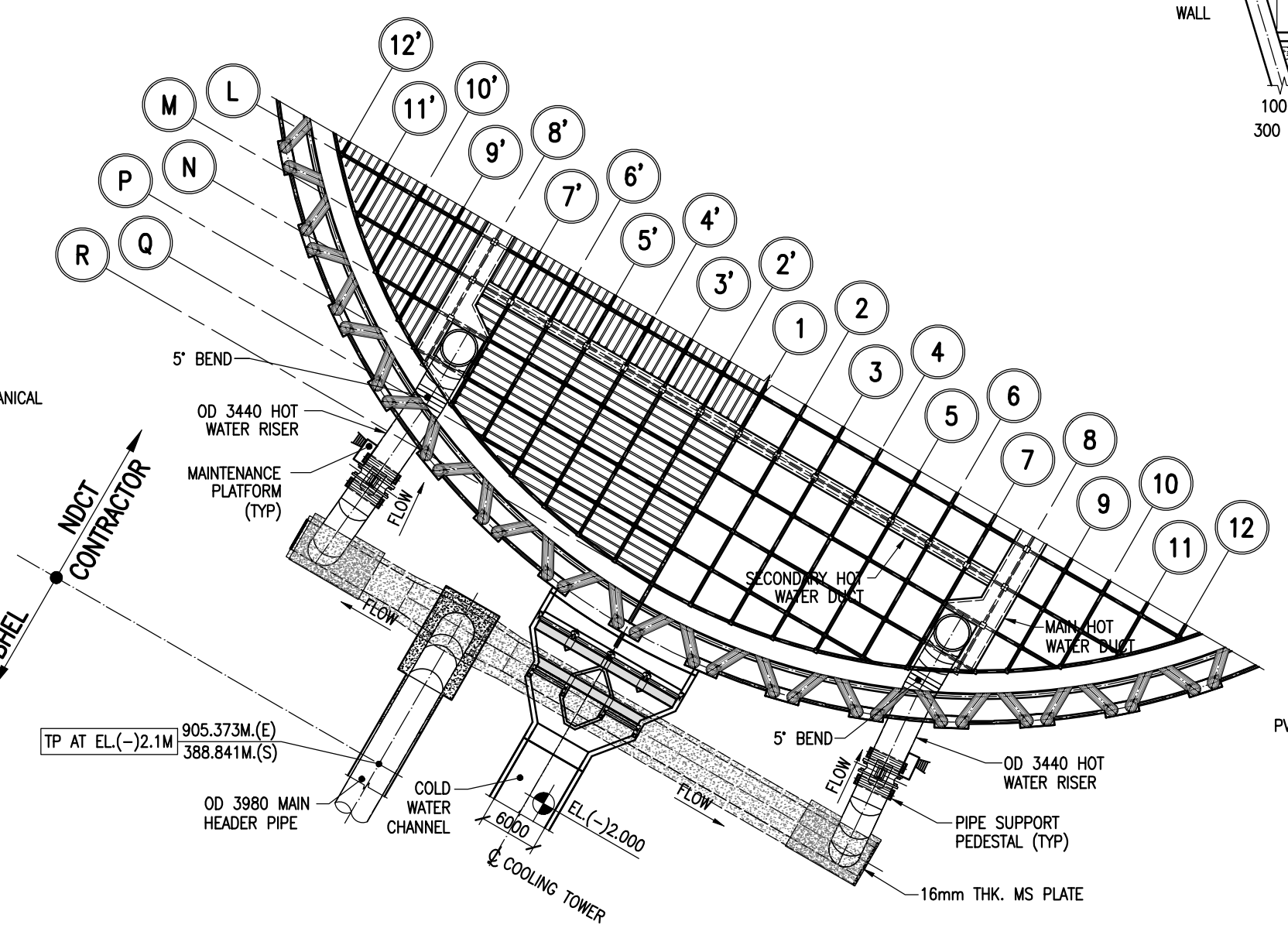
SECTION N-N
(SCALE-1:500)



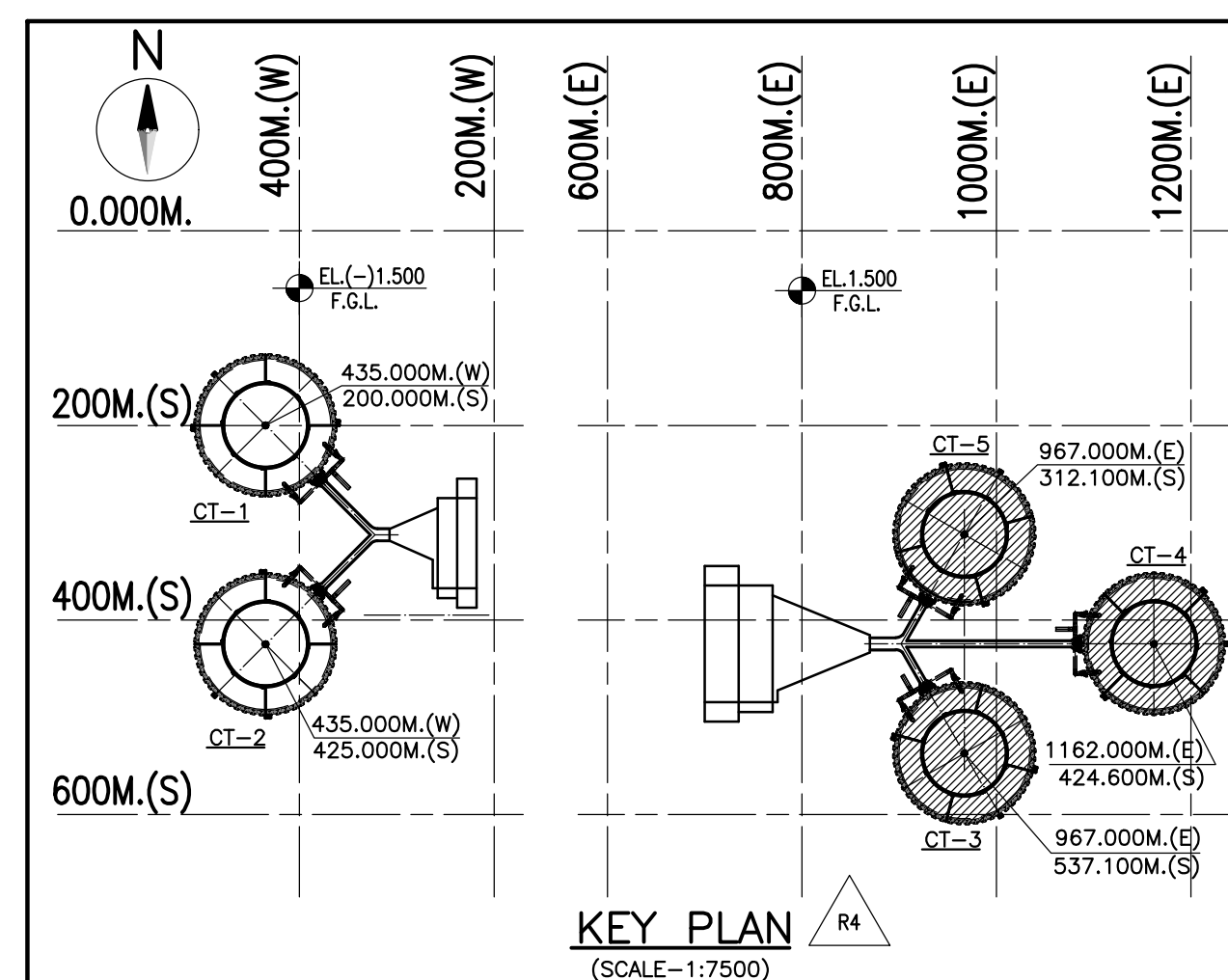
DETAIL-9
(SCALE-1:200)



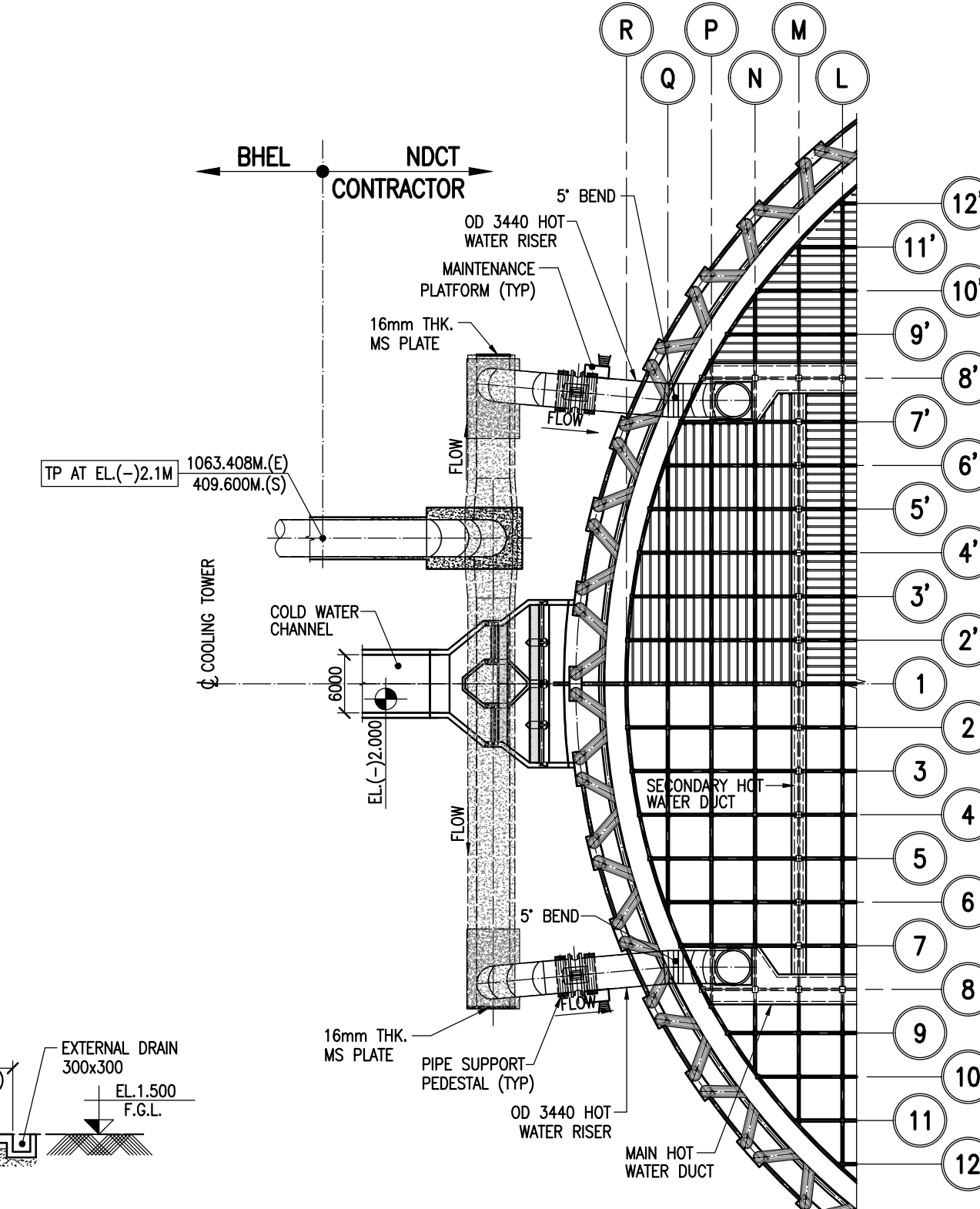
PLAN AT EL.201.090M OF CT-3, CT-4 & CT-5
(SCALE-1:600)



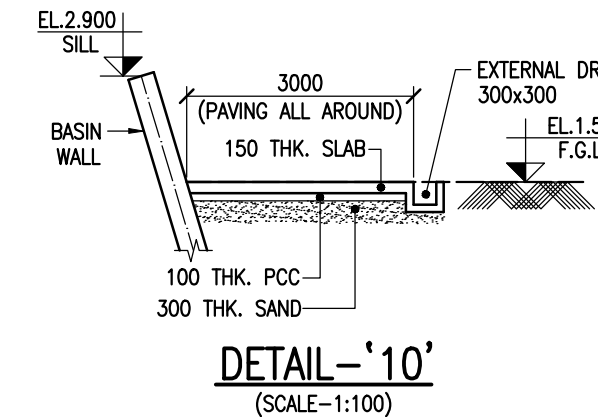
PART PLAN AT EL.18.100M OF CT-5
(SCALE-1:600)



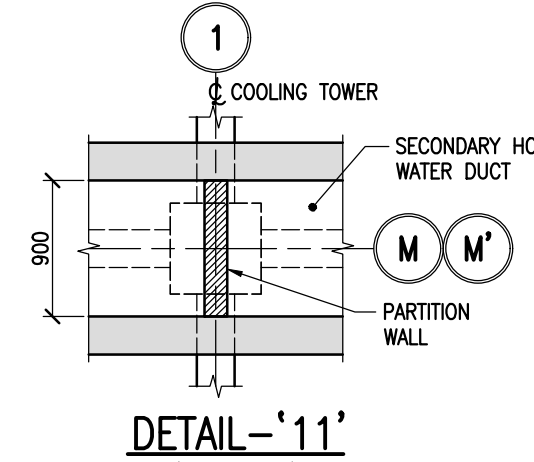
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS AND LEVELS ARE IN METER UNLESS OTHERWISE SPECIFIED.
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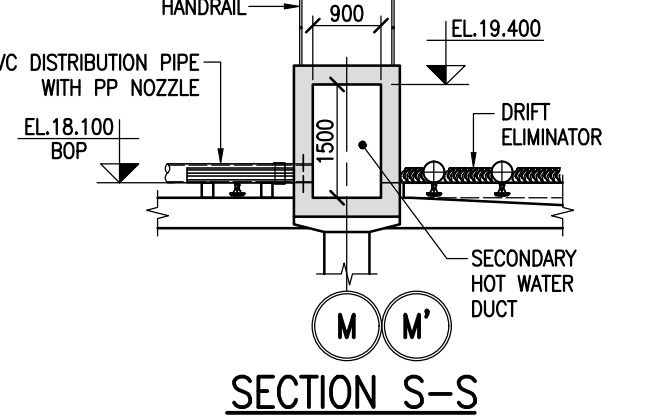
PART PLAN AT EL.18.100M OF CT-4
(SCALE-1:600)



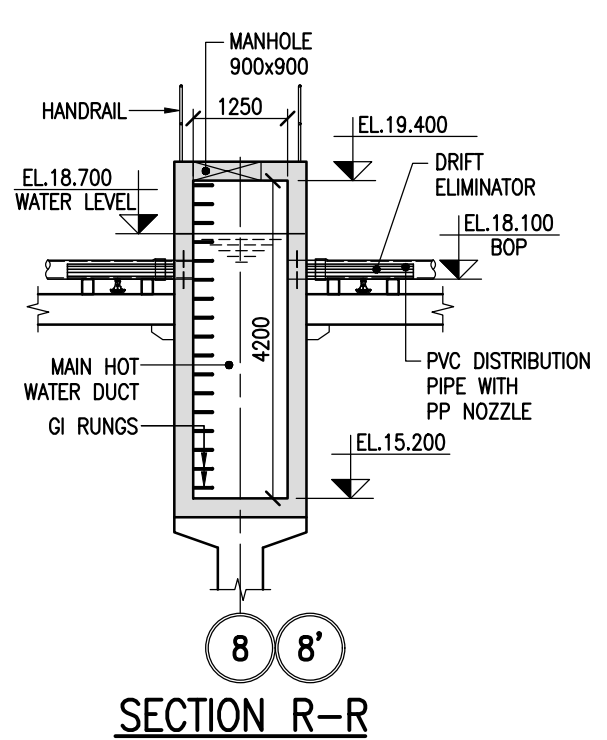
DETAIL-10
(SCALE-1:100)



DETAIL-11
(SCALE-1:50)

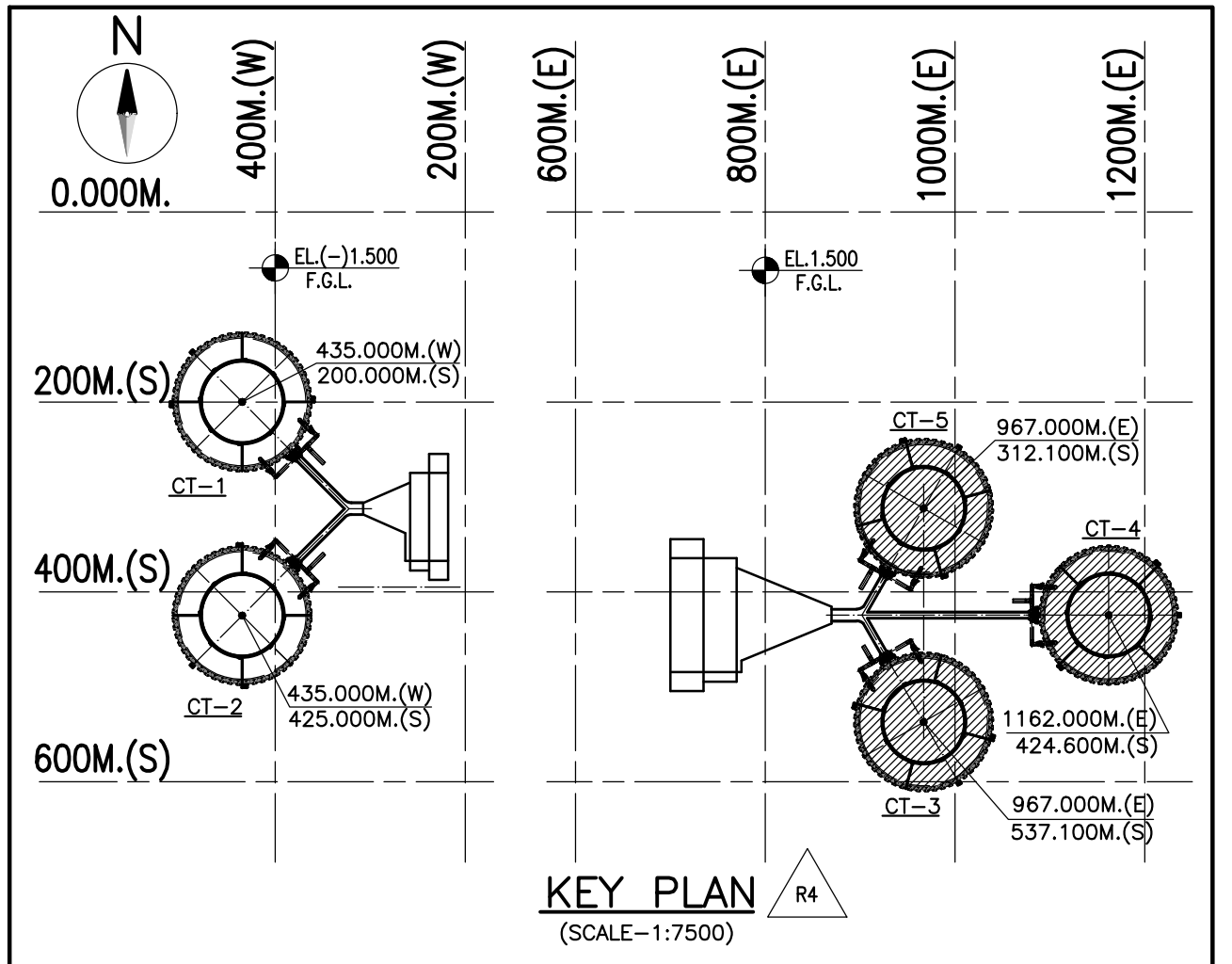
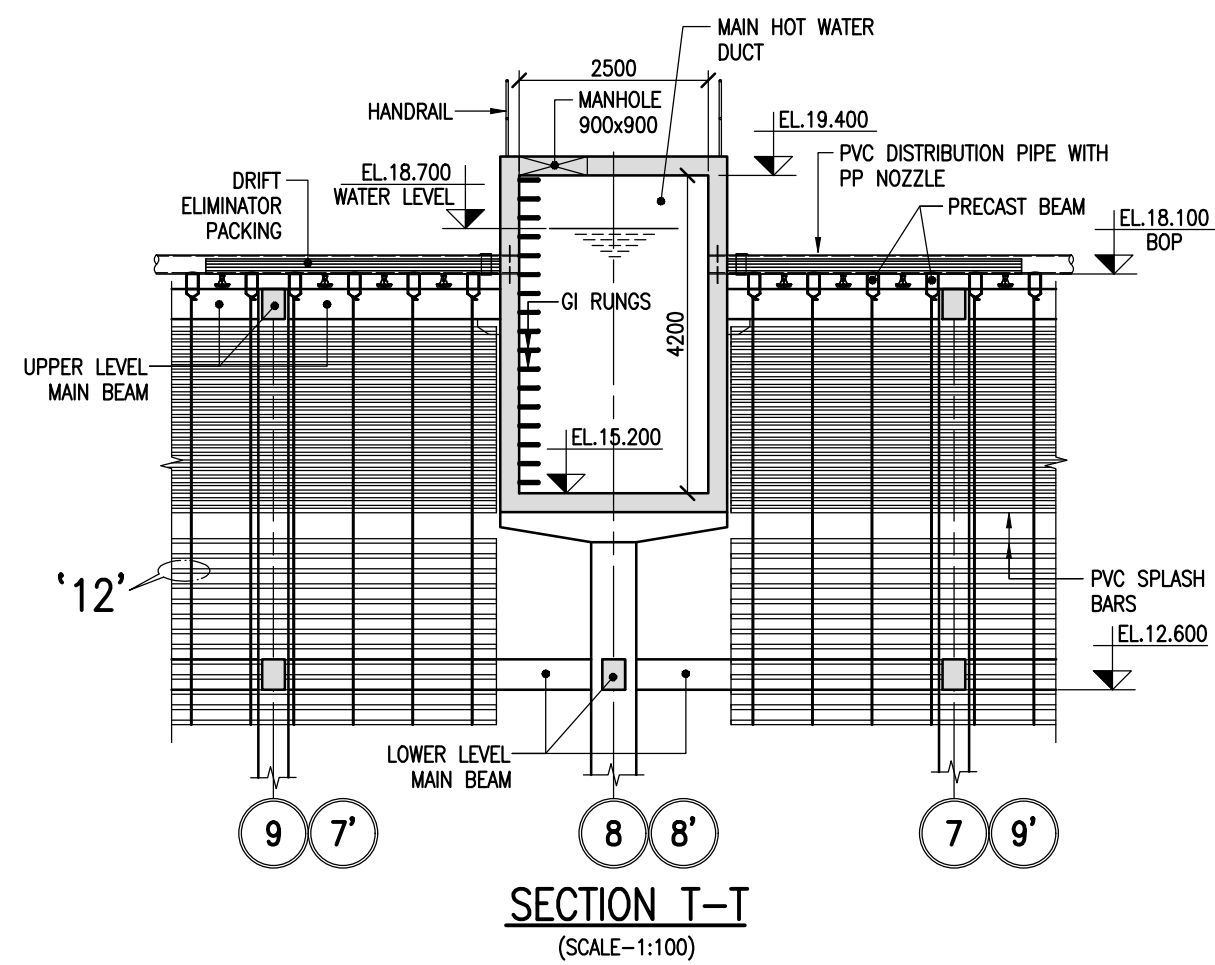
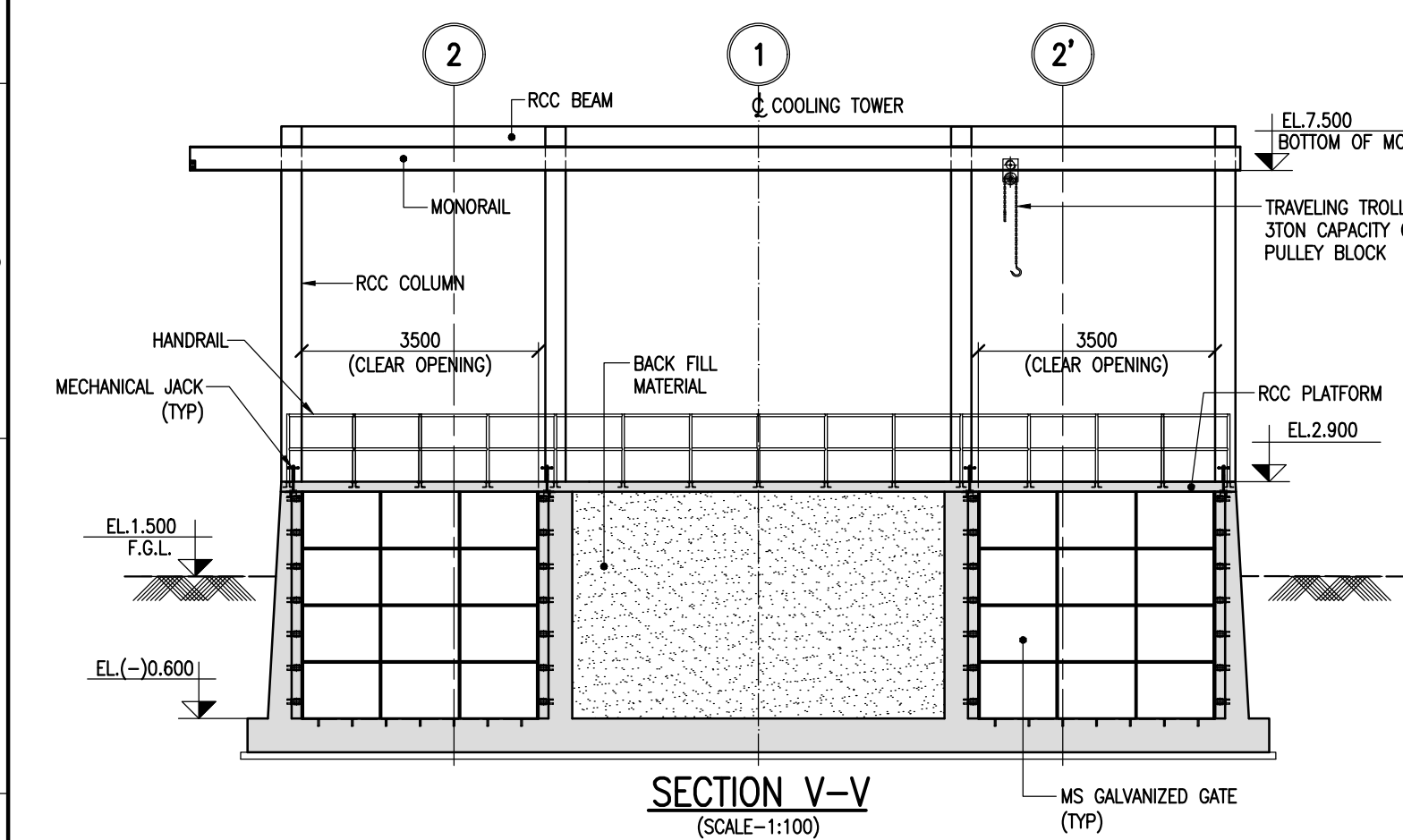
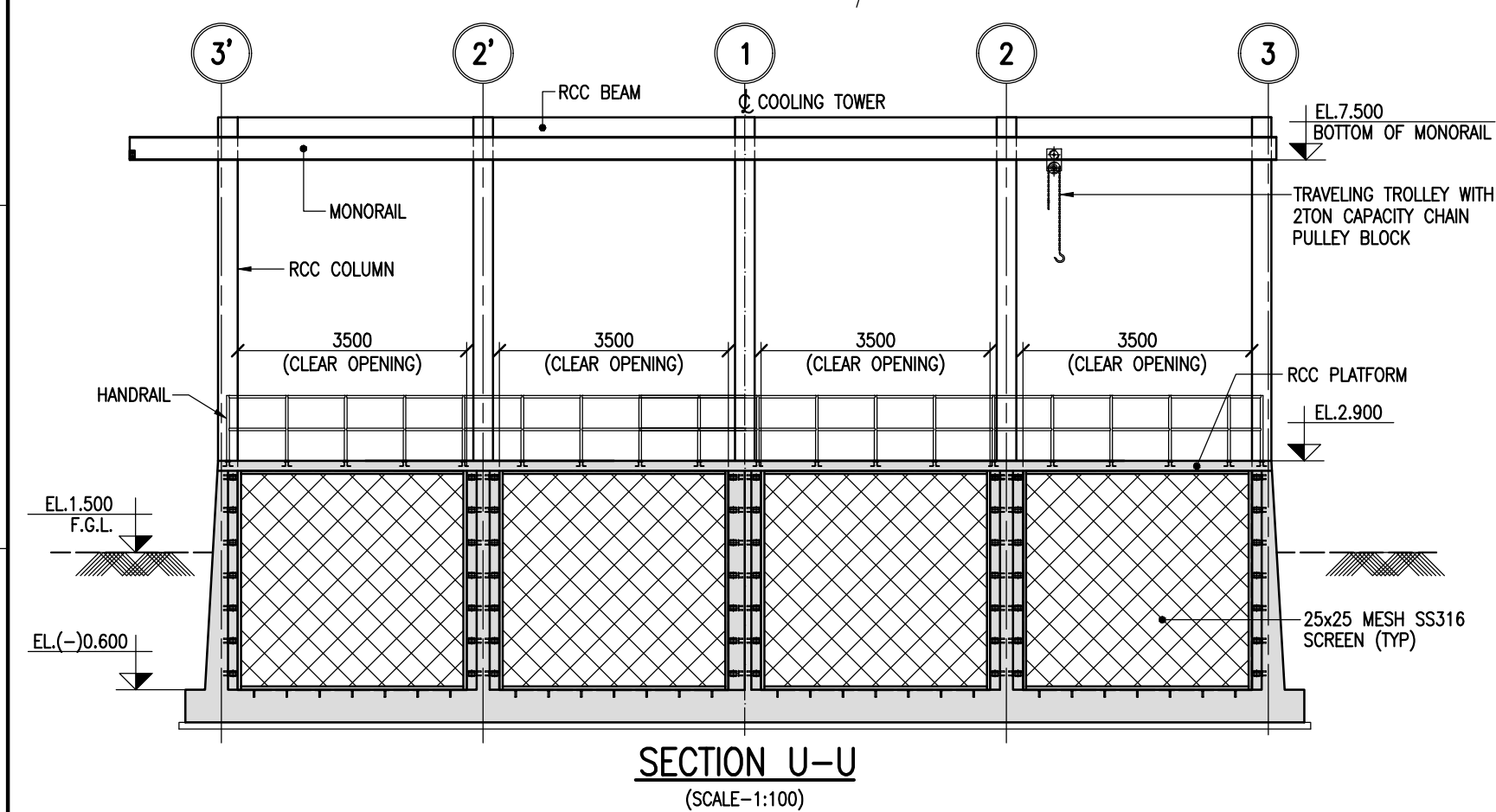
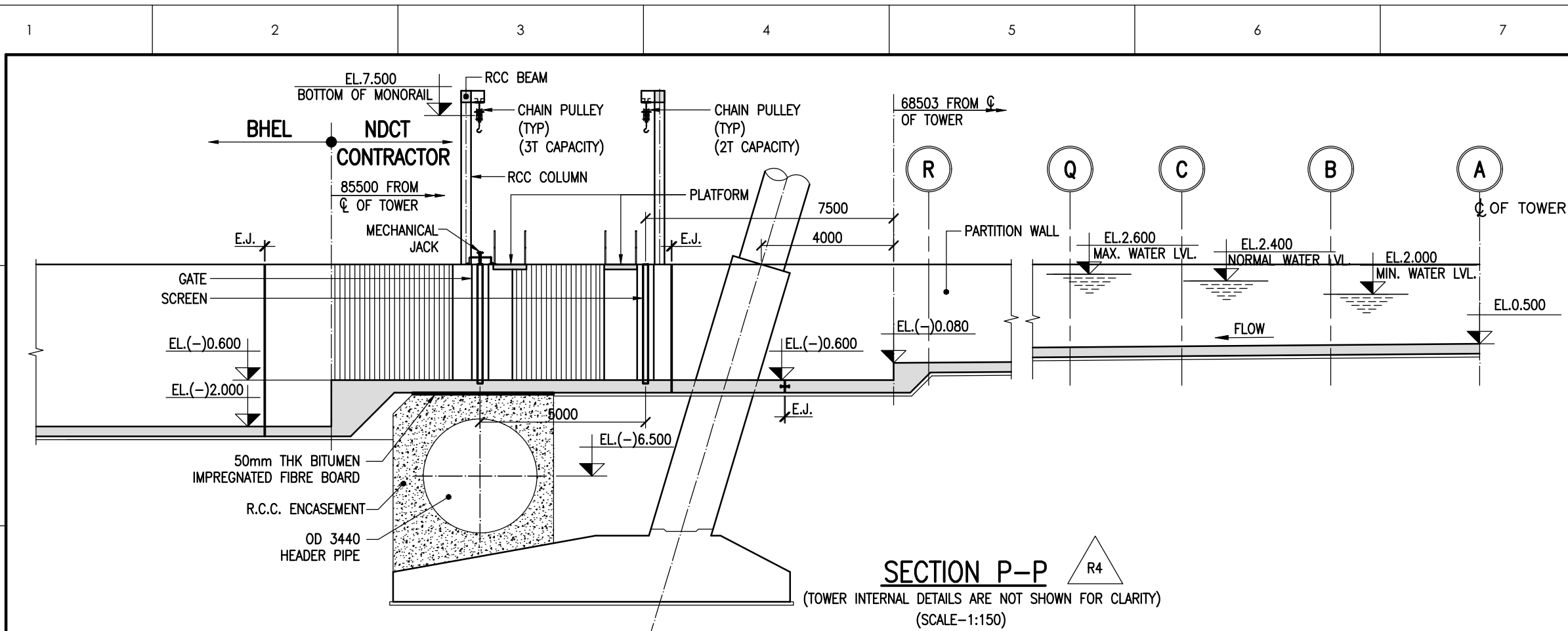


SECTION S-S
(SCALE-1:100)



SECTION R-R
(SCALE-1:100)

R4	06/03/20	HEADER & RISER PIPES LAYOUT REVISED	YCT	CUSTOMER	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	EPC CONTRACTOR	SHIM	TITLE	GENERAL ARRANGEMENT OF NATURAL DRAUGHT COOLING TOWER (STAGE#2)
R3	22/01/20	BASED ON TCE COMMENTS DI. 22/01/19	KAC			NDCT CONSULTANT	UNB		
R2	01/12/18	BASED ON TCE & TSGENCO COMMENTS DI. 22/11/18	SCJ			SPECTRUM Techno Consultants Pvt Ltd Navi Mumbai - India.	UKR		
R1	10/08/18	BASED ON TCE COMMENTS DI. 03/08/18	CDS			PROJECT	DATE	760-E-DD-101	REV.NO.
0	26/06/18	FOR APPROVAL	SHM			5x800 MW YADADRI THERMAL POWER STATION	06/03/2021	PE-V1-417-165-N001	R4
REV	NO	DATE	DESCRIPTION	DRAWN			SCALE	(SHEET 5 OF 6)	



- NOTES:**
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R4	06/03/21	HEADER & RISER PIPES LAYOUT REVISED	YCT	CUSTOMER	EPC CONTRACTOR	NDCT CONSULTANT	DRAWN BY :	SHM	TITLE
R3	22/01/20	BASED ON TCE COMMENTS Dt. 22/01/19	KAC	TELANGANA STATE POWER GENERATION CORPORATION LTD TELANGANA INDIA	BHARAT HEAVY ELECTRICALS LIMITED	SPECTRUM Techno Consultants Pvt Ltd 401, Raikar Bhavan, Plot No. 9, Sector-17, Vashi, Navi Mumbai 400 705 India. Email : info@spectrumworld.net	CHECKED BY	UNB	GENERAL ARRANGEMENT OF NATURAL DRAUGHT COOLING TOWER (STAGE#2)
R2	01/12/18	BASED ON TCE & TSGENCO COMMENTS Dt. 22/11/18	SCJ	CONSULTANT			APPROVED BY	UKR	STCPL DRG.NO. 760-E-DD-101
R1	10/08/18	BASED ON TCE COMMENTS Dt. 03/08/18	CDS	TATA CONSULTING ENGINEERS LIMITED BANGALORE INDIA		5x800 MW YADADRI THERMAL POWER STATION	DATE	22/01/2020	BHEL DRG.NO. PE-V1-417-165-N001 (SHEET 6 OF 6)
0	26/06/18	FOR APPROVAL	SHM				SCALE	AS SHOWN	REV.NO. R3
REV. NO.	DATE	DESCRIPTION	DRAWN						THIS DRAWING IS THE PROPERTY OF SPECTRUM Techno Consultants Pvt Ltd IT IS SUBJECT TO THEIR RECALL, AND MUST NOT BE LENT, COPIED OR REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.