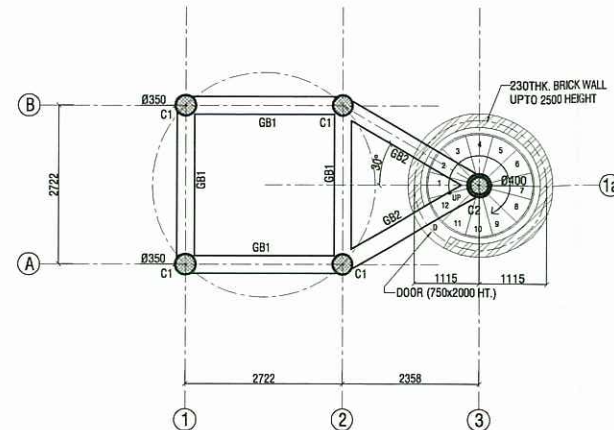
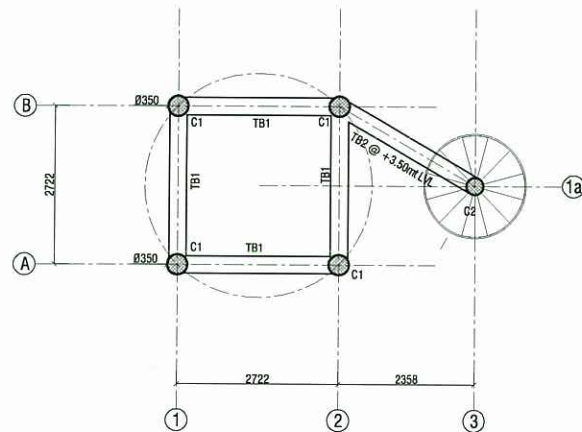


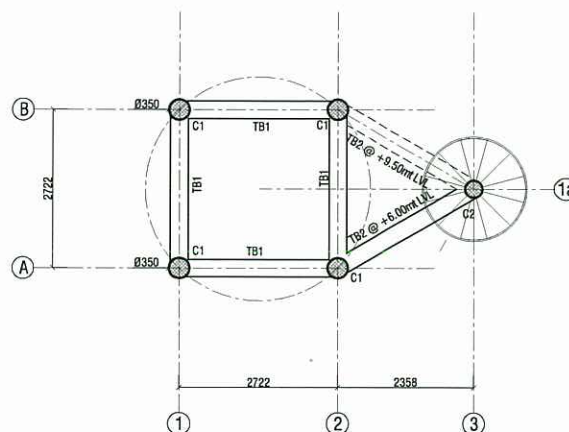
FOUNDATION PLAN



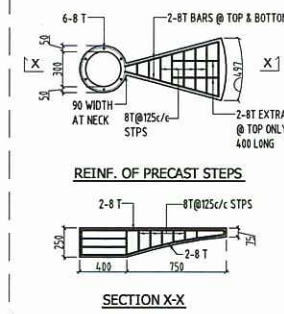
PLAN @ ±0.00 mt LVL



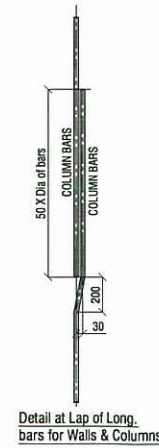
PLAN @ +4.0mt LVL



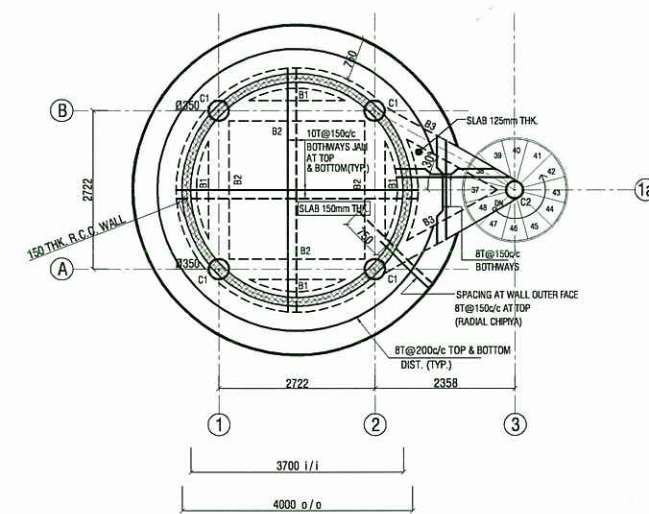
PLAN @ +8.0mt LVL



SECTION X-X



Detail at Lap of Long bars for Walls & Columns



PLAN @ +11.88mt LVL

STAGING COLUMN & FOOTING SCHEDULE :

SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C1	6-20T	2200 x 2200	2500 x 2500	475	150	12-10T	12-10T
2	III	15	M:25	Fe:415	C1	6-20T	1800 x 1800	2100 x 2100	450	150	10-10T	10-10T
3	III	20	M:25	Fe:415	C1	6-20T	1600 x 1600	1900 x 1900	400	150	9-10T	9-10T
4	III	25	M:25	Fe:415	C1	6-20T	1500 x 1500	1800 x 1800	400	150	8-10T	8-10T

STAIR COLUMN & FOOTING SCHEDULE :

SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C2	6-16T	2000 x 2000	2300 x 2300	475	150	11-10T	11-10T
2	III	15	M:25	Fe:415	C2	6-16T	1800 x 1800	2100 x 2100	450	150	10-10T	10-10T
3	III	20	M:25	Fe:415	C2	6-16T	1600 x 1600	1900 x 1900	400	150	9-10T	9-10T
4	III	25	M:25	Fe:415	C2	6-16T	1500 x 1500	1800 x 1800	400	150	8-10T	8-10T

NOTES :

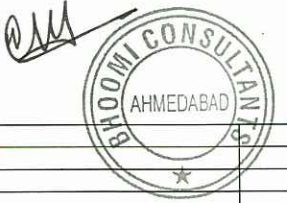
- ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- GRADE OF CONC FOR R.C.C. CONTAINER WORK SHALL BE M 25 & STAGING WORK SHALL BE M 25 CONFORMING TO IS 456 OF 2000.
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.:13920 -1993, I.S.: 1893-2002, GSDMA GUIDELINE IS CONSIDERED.
- ALL STEEL CONFORM I.S.1786-1985 FE : 415
- SHUTTERING SHOULD BE MADE WITH RIGID STEEL FRAMING WITH EITHER STEEL OR WATER-PROOF PLYWOOD CLADDING. THERE SHOULD BE ARRANGEMENT FOR FIXING PERMANENT PLUMB-BOB FOR CHECKING PLUMB IN TWO ORTHOGONAL DIRECTIONS SIMULTANEOUSLY.
- DO NOT APPLY OIL OR ANY STICKY LUBRICANT TO FORMS BEFORE CASTING CONCRETE. USE SPECIAL DE-SHUTTERING CHEMICAL OR VOLATILE LUBRICANT. FORMS SHOULD BE CLEANED IMMEDIATELY AFTER DE-SHUTTERING EVERY STAGE OF CONCRETING.
- REINFORCEMENT BARS SHOULD BE CUT, BENT, JOGGLED OR HOOKED AS SHOWN ON DRAWING. IN CASE, IF ANY DETAILS ARE MISSING OR ARE AMBIGUOUS, CLARIFICATION SHALL BE OBTAINED FROM THE CONSULTANT BEFORE STARTING WORK. LAPS SHALL BE PROVIDED WITH PRECISE LENGTH, LOCATION, LENGTH OF JOGGLE AND ALIGNMENT. DO NOT PROVIDE SPLICES OR LAPS AT ANY ARBITRARY LOCATION. IF SITE CONDITIONS REQUIRE LOCATION OF LAPS AT ANY OTHER POSITION, PRIOR APPROVAL SHOULD BE OBTAINED FROM THE CONSULTANT.
- STIRRUPS AND COLUMN-LINKS SHOULD HAVE 135° BENDS WITH MINIMUM 10D EXTENSION BEYOND THE CURVED LENGTHS. IN CASE OF MULTIPLE RINGS/STIRRUPS LOCATION OF BENDS SHOULD BE PROPERLY PLANNED TO AVOID ENTANGLEMENT OF VIBRATOR NEEDLE.
- LONGITUDINAL BARS IN COLUMNS SHOULD BE ORIENTED IN SUCH A WAY THAT THE BARS FROM BRACES CAN BE PLACED COMFORTABLY WITHOUT UNDUE CROWDING AND CROSSING. THE DETAILS OF PROBABLE LOCATIONS ARE SHOWN ON DRAWING, HOWEVER MORE EFFICIENT ARRANGEMENT OF BARS CAN BE PLANNED ON SITE BY ACTUAL TAMPLATING. UNIFORM OR RANDOM PLACEMENT OF LONGITUDINAL BARS OF COLUMNS MIGHT INVITE DIFFICULTIES WHILE FIXING REINFORCEMENT OF OTHER ELEMENTS CONNECTED WITH IT.
- IN ALL CIRCULAR WALL MEMBER CARE SHOULD BE TAKEN TO ENSURE THAT ALL CIRCULAR RING REINF. ARE NOT LAPPED IN ONE VERTICAL PLANE. LAPS SHOULD BE STAGGERED AROUND THE PERIPHERY.
- HYDROTESTING SHALL BE DONE IN ACCORDANCE WITH IS:2911 (PART 4) LATEST BY MAINTAINED LOAD METHOD.
- AT ALL THE JUNCTIONS OF THE TANK PORTION, IT SHOULD BE ENSURED THAT THE REINFORCEMENT OF ONE MEMBER IS FULLY ANCHORED TO ITS CONNECTED MEMBER WHEREVER CONTINUITY IS TO BE MAINTAINED.
- THE PIPES SHALL BE TAKEN AS POSSIBLE ALONG AND VERY CLOSE TO SIDE WALLS OF THE RESERVOIR & SHALL BE SUPPORTED ON M.S. CLAMPS MADE OF 40MM G.I. BOLTS & NUTS
- OVERFLOW AND WASHOUT PIPE SHALL BE LEFT WELL BEYOND THE PLINTH
- WALLS AND BOTTOM SLAB SHALL BE CAST IN SEQUENTIAL ORDER.
- CURING PERIOD SHALL BE 28 DAYS MINIMUM.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
BASE SLAB : 45mm
WALL : 45 mm (BOTH FACES)
CIRCULAR GIRDER : 45mm (ALL SIDES)
BRACING BEAM : 30mm (ALL SIDES)
RAFT/FOOTING : 50mm (ALL AROUND)
- ALL INSIDE FACES TO RECEIVE 20 MM THK. WATER PROFF PLASTER WITH APPROVED WATER PROOFING COMPUND IN CM 1:2
- ALL INLETS OUTLETS OVER FLOW PIPES MAN HOLE FRAMES ETC. TO BE LEFT IN POSITION BEFORE CONCRETING
- DEVELOPMENT LENGTH IS TO BE TAKEN 50d, (d = DIA OF BARS)
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.:13920 -2016, I.S.: 1893 P1-2016, I.S.: 1893 P2-2014, AND ZONE: III FOR E.Q. HAS BEEN CONSIDERED.


APPROVED

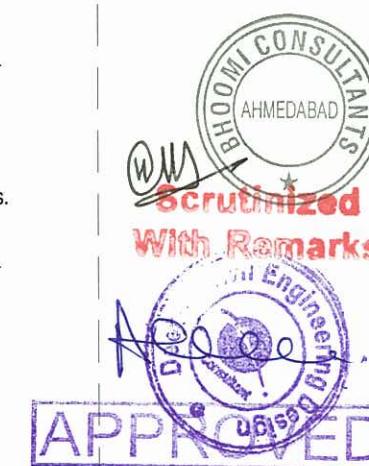
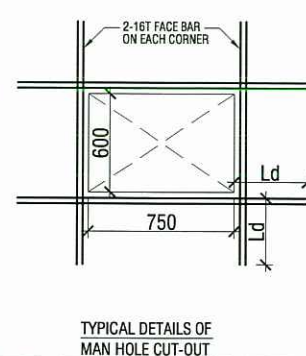
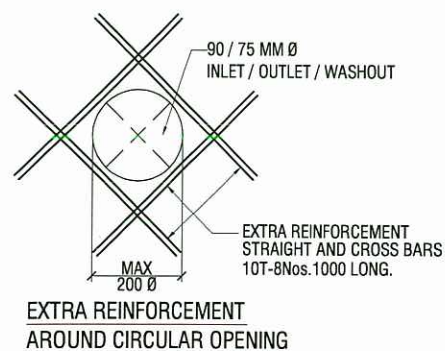
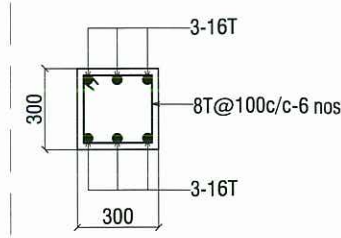
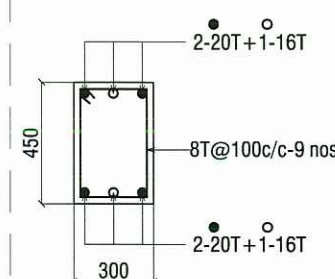
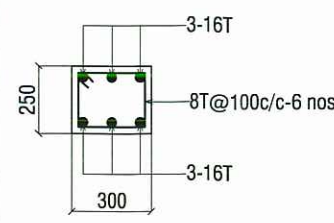
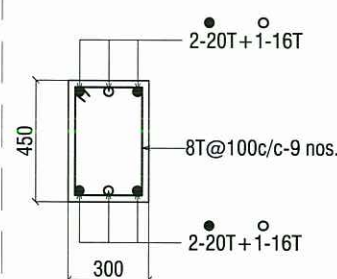
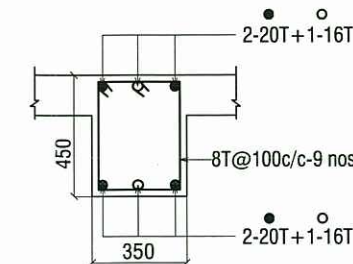
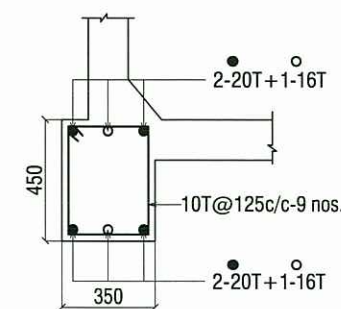
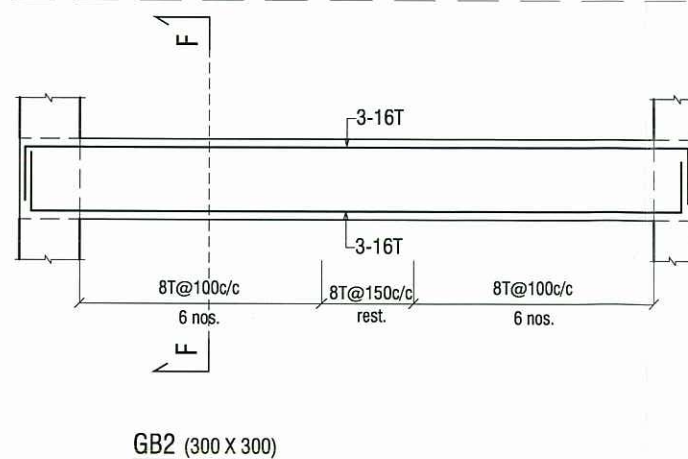
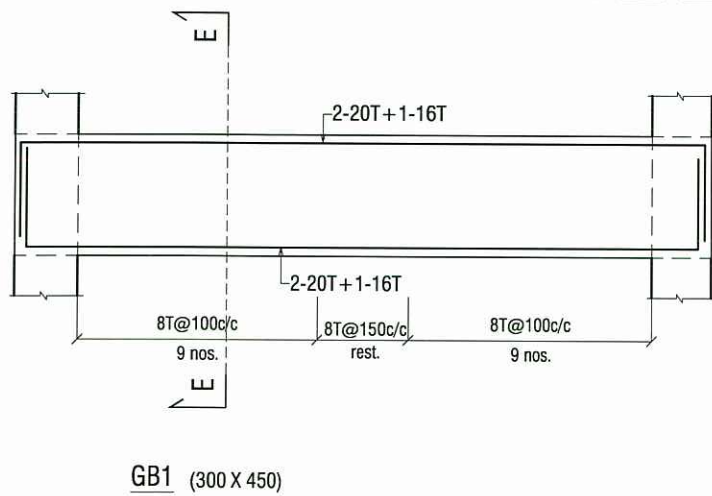
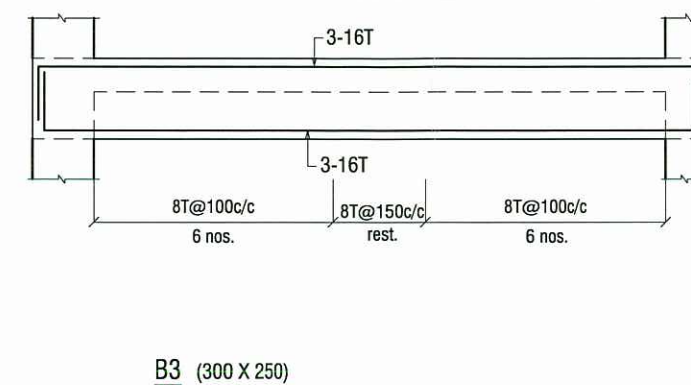
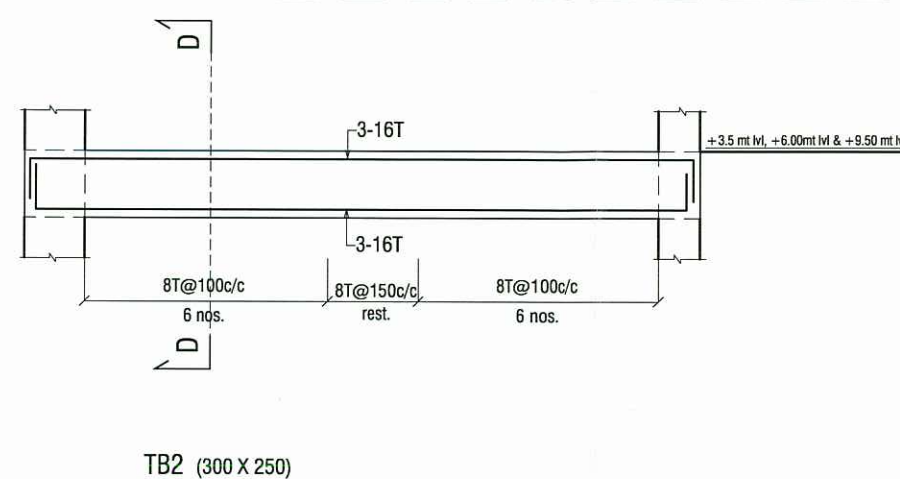
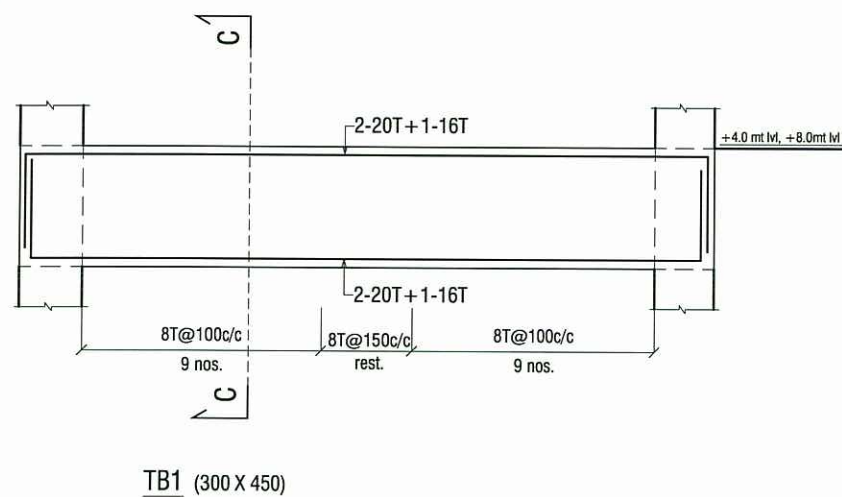
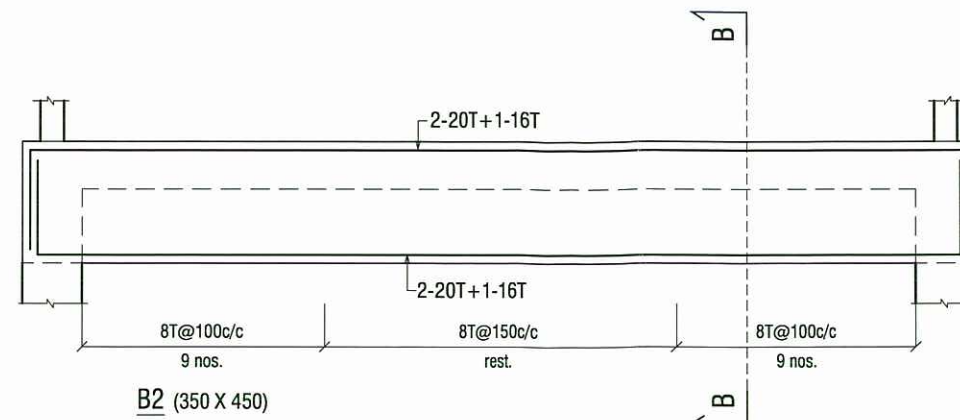
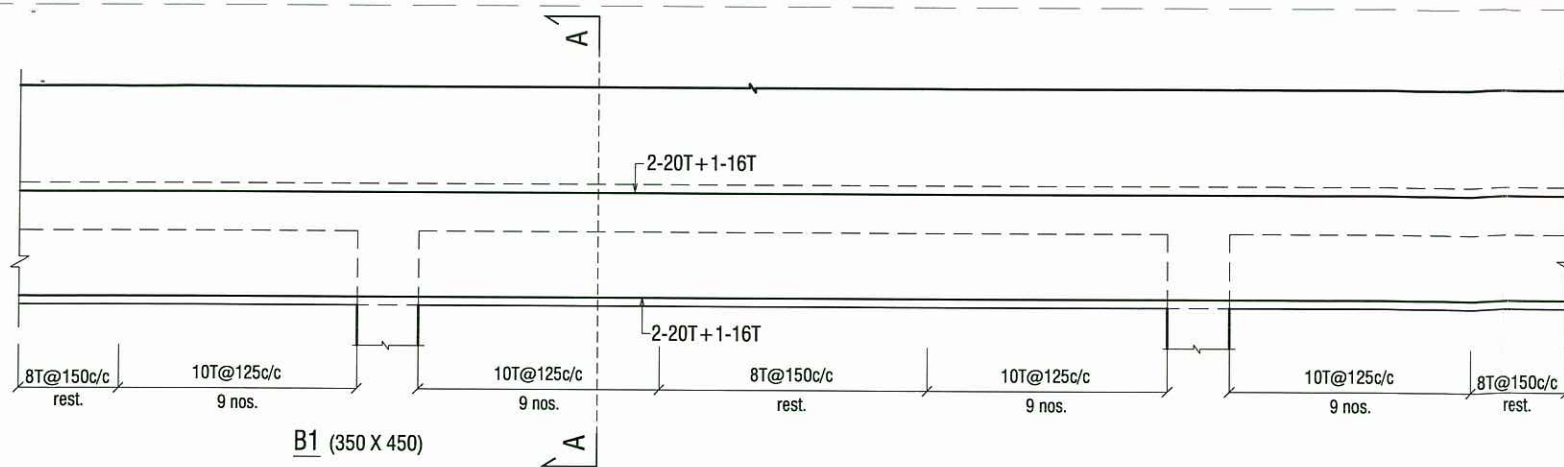
Scrutinized With Remarks




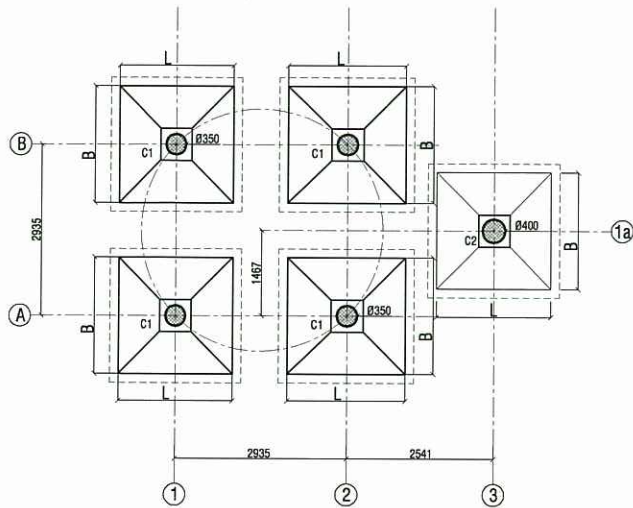
Scrutinized With Remarks



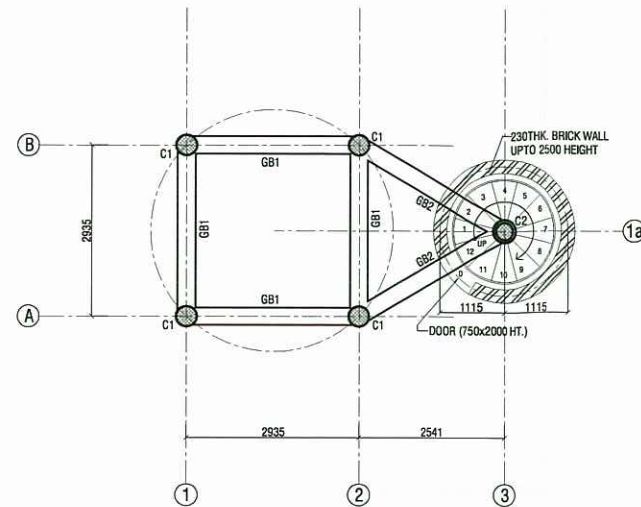
R-0	12.07.17	FOR APPROVAL			01
REV. NO.	DATE	I S S U E			PRINTS
PROJECT:	20000 L CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)				
DRG. TITLE:	STRUCTURAL LAYOUTS OF ALL LVL				
CLIENT:	WASMO GANDHINAGAR				
STRUCTURAL ENGINEERS					
<div> BHOOMI - CONSULTANTS -</div> <div>205-206, 2nd FLOOR ALPHA MEGACON HOUSE, Opp. ARMEDIA, PAKAWAN TO SINGHSHIVAN ROAD, S.G. HIGHWAY, AHMEDABAD-380054 Ph : 079-29703381, 96796 06993 email : shashivjayd@gmail.com, Web : www.bhoomiconsultants.com</div>					
SCALE:		CHECKED	PROJ. NO. :		DRG. NO. :
DRN: MIRAL					S/02
\\Dhamendral\\BHOOMI ALL DRAWINGS\\DRAWING A TO OIESR 2014					



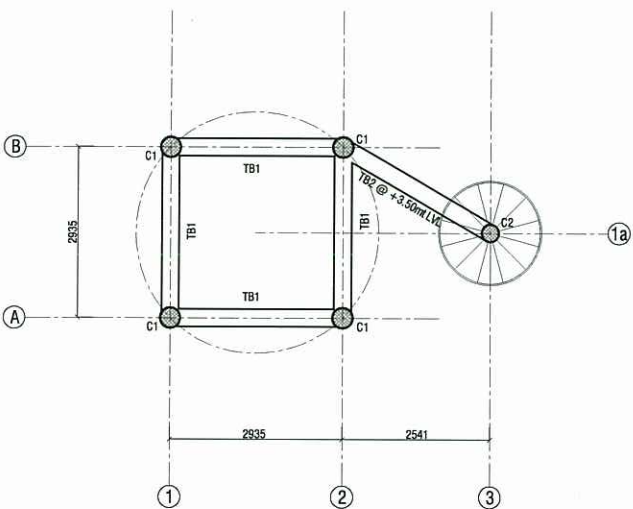
R-O	12.07.17	FOR APPROVAL	01
REV. NO.	DATE	I S S U E	PRINTS
PROJECT:	20000 L CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)		
DRG. TITLE:	STRUCTURAL BEAM DETAILS OF ALL LVL		
CLIENT :	WASMO GANDHINAGAR		
STRUCTURAL ENGINEERS			
		205-206, 2nd FLOOR ALPHA MEGACON HOUSE, Opp. ARMEDDA, PAKAWAN TO SINDHU BHAVAN ROAD, S.G. HIGHWAY, AHMEDABAD-380014 Ph : 079-29703331, 98796 08903 email : bhoomiconsultants@gmail.com Web : www.bhoomiconsultants.com	
BHOOMI - CONSULTANTS -			
SCALE:	CHECKED	PROJ. NO. :	DRG. NO. :
DRN: MIRAL			S/04
VDharmendra/BHOOMI ALL DRAWINGS/DRAWING A TO OESR 2014			



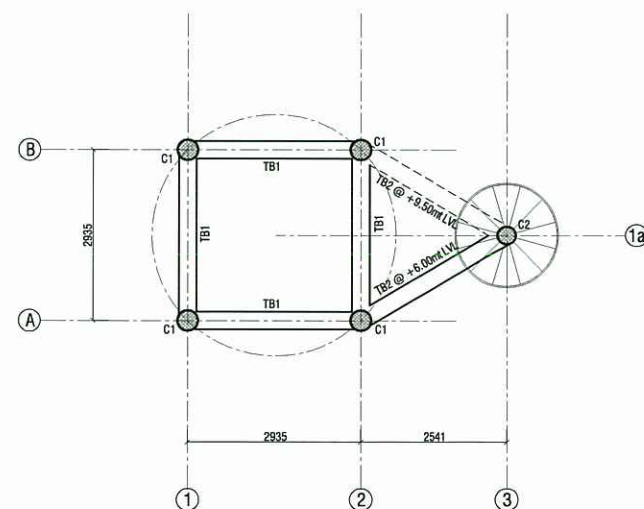
FOUNDATION PLAN



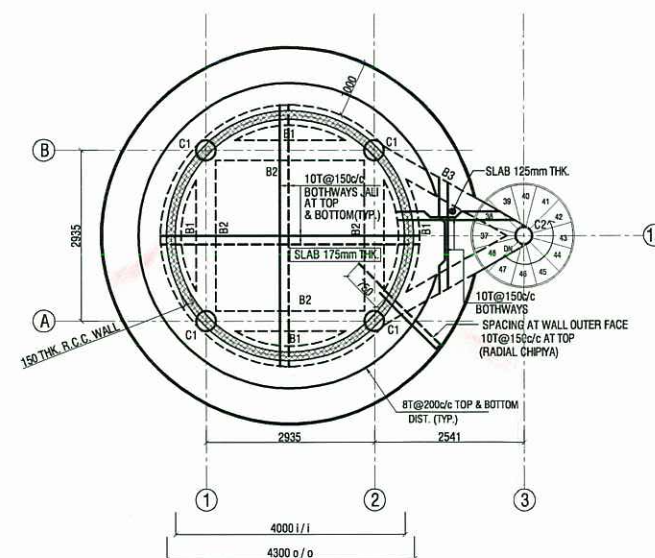
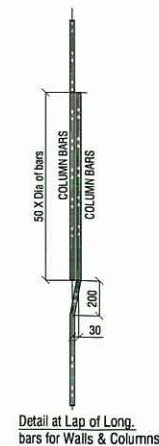
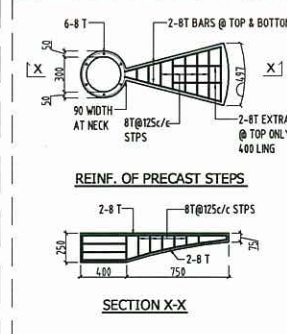
PLAN @ ±0.00 mt LVL



PLAN @ +4.0mt LVL



PLAN @ +8.0mt LVL



PLAN @ +11.88mt LVL

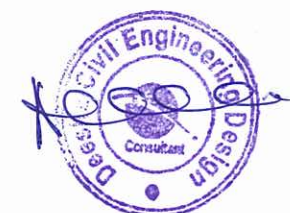
STAGING COLUMN & FOOTING SCHEDULE :

SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C1	6-20T	2300 x 2300	2600 x 2600	500	150	13-10T	13-10T
2	III	15	M:25	Fe:415	C1	6-20T	1900 x 1900	2200 x 2200	475	150	11-10T	11-10T
3	III	20	M:25	Fe:415	C1	6-20T	1600 x 1600	1900 x 1900	450	150	9-10T	9-10T
4	III	25	M:25	Fe:415	C1	6-20T	1500 x 1500	1800 x 1800	450	150	9-10T	9-10T

STAIR COLUMN & FOOTING SCHEDULE :

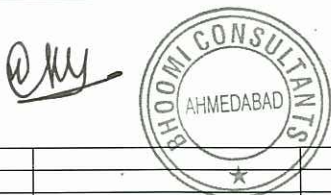
SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C2	8-16T	2000 x 2000	2300 x 2300	475	150	11-10T	11-10T
2	III	15	M:25	Fe:415	C2	8-16T	1800 x 1800	2100 x 2100	475	150	10-10T	10-10T
3	III	20	M:25	Fe:415	C2	8-16T	1600 x 1600	1900 x 1900	450	150	9-10T	9-10T
4	III	25	M:25	Fe:415	C2	8-16T	1500 x 1500	1800 x 1800	450	150	8-10T	8-10T

APPROVED
Scrutinized
With Remarks



NOTES :

- ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- GRADE OF CONC FOR R.C.C. CONTAINER WORK SHALL BE M 25 & STAGING WORK SHALL BE M 25 CONFORMING TO IS 456 OF 2000.
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.: 13920 -1993, I.S.: 1893-2002, GSDMA GUIDELINE IS CONSIDERED.
- ALL STEEL CONFORM I.S. 1786-1985 FE : 415
- SHUTTERING SHOULD BE MADE WITH RIGID STEEL FRAMING WITH EITHER STEEL OR WATER-PROOF PLYWOOD CLADDING. THERE SHOULD BE ARRANGEMENT FOR FIXING PERMANENT PLUMB-BOB FOR CHECKING PLUMB IN TWO ORTHOGONAL DIRECTIONS SIMULTANEOUSLY.
- DO NOT APPLY OIL OR ANY STICKY LUBRICANT TO FORMS BEFORE CASTING CONCRETE. USE SPECIAL DE-SHUTTERING CHEMICAL OR VOLATILE LUBRICANT. FORMS SHOULD BE CLEANED IMMEDIATELY AFTER DE-SHUTTERING EVERY STAGE OF CONCRETING.
- REINFORCEMENT BARS SHOULD BE CUT, BENT, JOGGLED OR HOOKED AS SHOWN ON DRAWING. IN CASE, IF ANY DETAILS ARE MISSING OR ARE AMBIGUOUS, CLARIFICATION SHALL BE OBTAINED FROM THE CONSULTANT BEFORE STARTING WORK. LAPS SHALL BE PROVIDED WITH PRECISE LENGTH, LOCATION, LENGTH OF JOGGLE AND ALIGNMENT. DO NOT PROVIDE SPLICES OR LAPS AT ANY ARBITRARY LOCATION. IF SITE CONDITIONS REQUIRE LOCATION OF LAPS AT ANY OTHER POSITION, PRIOR APPROVAL SHOULD BE OBTAINED FROM THE CONSULTANT.
- STIRRUPS AND COLUMN-LINKS SHOULD HAVE 135° BENDS WITH MINIMUM 10D EXTENSION BEYOND THE CURVED LENGTHS. IN CASE OF MULTIPLE RINGS/STIRRUPS LOCATION OF BENDS SHOULD BE PROPERLY PLANNED TO AVOID ENTANGLEMENT OF VIBRATOR NEEDLE.
- LONGITUDINAL BARS IN COLUMNS SHOULD BE ORIENTED IN SUCH A WAY THAT THE BARS FROM BRACES CAN BE PLACED COMFORTABLY WITHOUT UNDUE CROWDING AND CROSSING. THE DETAILS OF PROBABLE LOCATIONS ARE SHOWN ON DRAWING, HOWEVER MORE EFFICIENT ARRANGEMENT OF BARS CAN BE PLANNED ON SITE BY ACTUAL TEMPLATING. UNIFORM OR RANDOM PLACEMENT OF LONGITUDINAL BARS OF COLUMNS MIGHT INVOKE DIFFICULTIES WHILE FIXING REINFORCEMENT OF OTHER ELEMENTS CONNECTED WITH IT.
- IN ALL CIRCULAR WALL MEMBER CARE SHOULD BE TAKEN TO ENSURE THAT ALL CIRCULAR RING REINF. ARE NOT LAPPED IN ONE VERTICAL PLANE. LAPS SHOULD BE STAGGERED AROUND THE PERIPHERY.
- HYDROTESTING SHALL BE DONE IN ACCORDANCE WITH IS:2911 (PART 4) LATEST BY MAINTAINED LOAD METHOD.
- AT ALL THE JUNCTIONS OF THE TANK PORTION, IT SHOULD BE ENSURED THAT THE REINFORCEMENT OF ONE MEMBER IS FULLY ANCHORED TO ITS CONNECTED MEMBER WHEREVER CONTINUITY IS TO BE MAINTAINED.
- THE PIPES SHALL BE TAKEN AS POSSIBLE ALONG AND VERY CLOSE TO SIDE WALLS OF THE RESERVOIR & SHALL BE SUPPORTED ON M.S. CLAMPS MADE OF 40MM G.I. BOLTS & NUTS
- OVERFLOW AND WASHOUT PIPE SHALL BE LEFT WELL BEYOND THE PLINTH
- WALLS AND BOTTOM SLAB SHALL BE CAST IN SEQUENTIAL ORDER.
- CURING PERIOD SHALL BE 28 DAYS MINIMUM.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
BASE SLAB : 45mm
WALL : 45 mm (BOTH FACES)
CIRCULAR GIRDER : 45mm (ALL SIDES)
BRACING BEAM : 30mm (ALL SIDES)
RAFT/FOOTING : 50mm (ALL AROUND)
- ALL INSIDE FACES TO RECEIVE 20 MM THK. WATER PROOF PLASTER WITH APPROVED WATER PROOFING COMPOUND IN CM 1:2
- ALL INLETS/OUTLETS OVER FLOW PIPES MAN HOLE FRAMES ETC. TO BE LEFT IN POSITION BEFORE CONCRETING
- DEVELOPMENT LENGTH IS TO BE TAKEN 50d, (d = DIA OF BARS)
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.: 13920 -1993, I.S.: 1893-2002, GSDMA GUIDELINE AND ZONE: III FOR E.Q. HAS BEEN CONSIDERED.



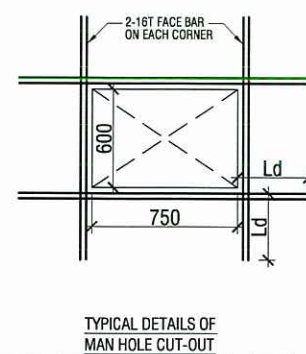
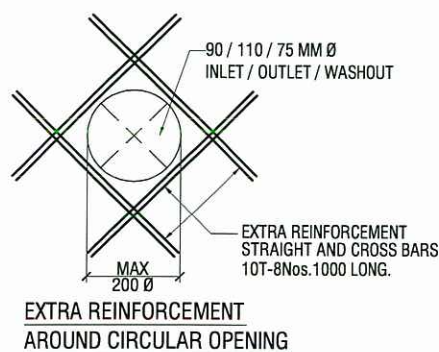
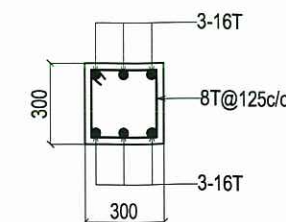
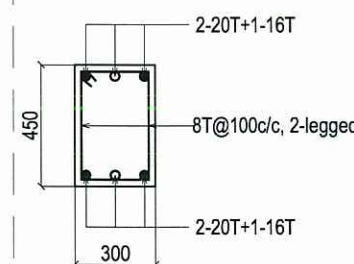
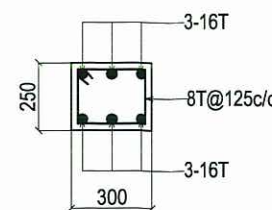
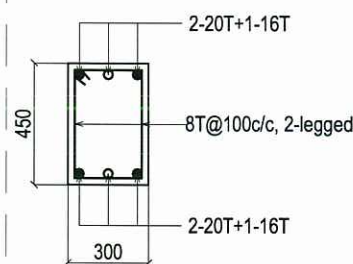
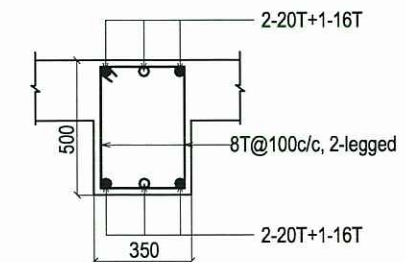
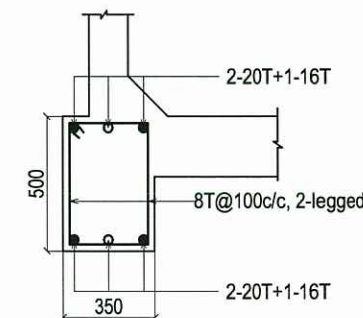
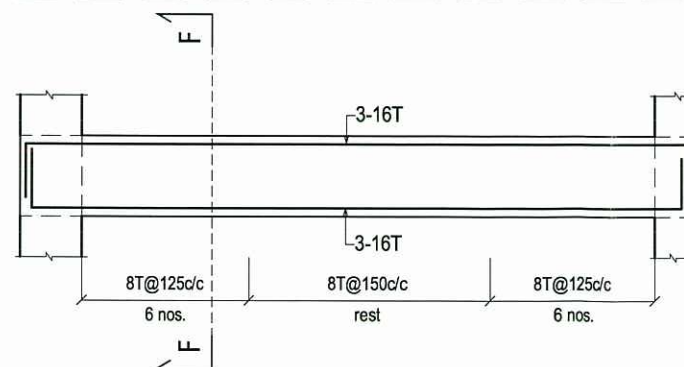
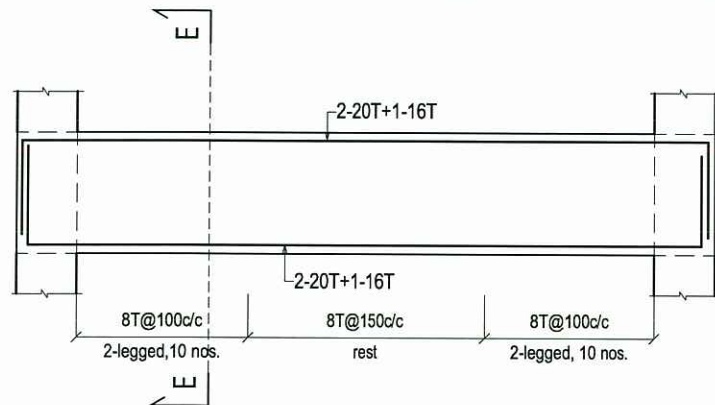
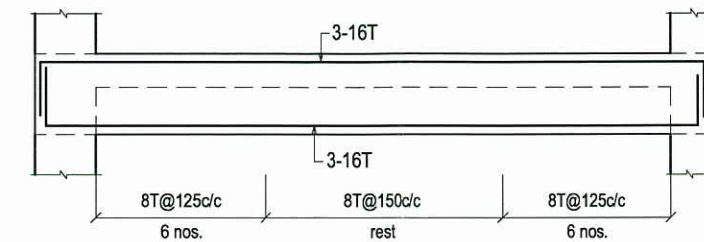
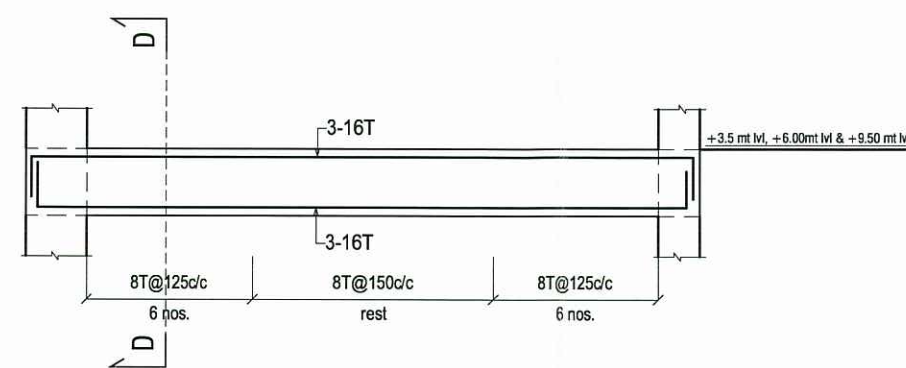
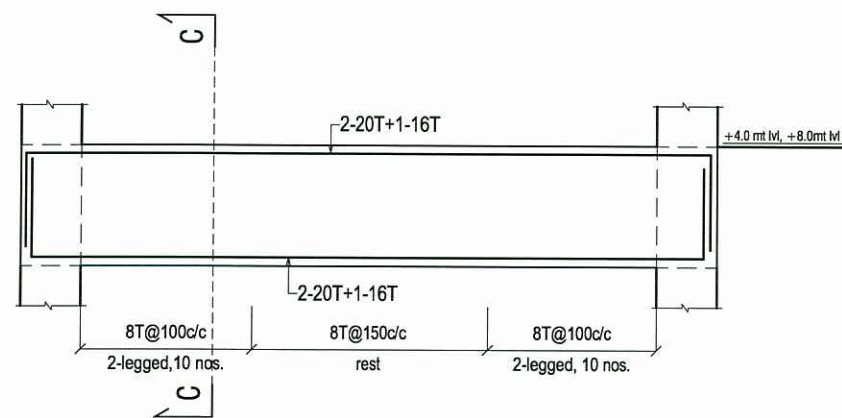
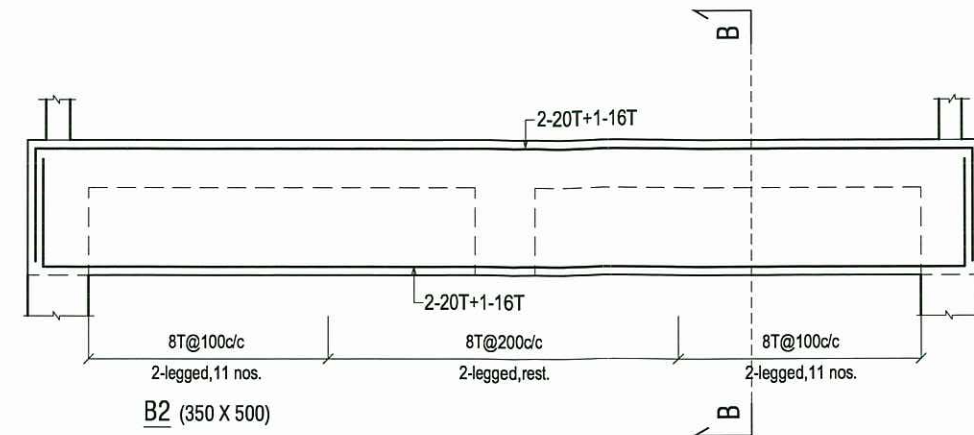
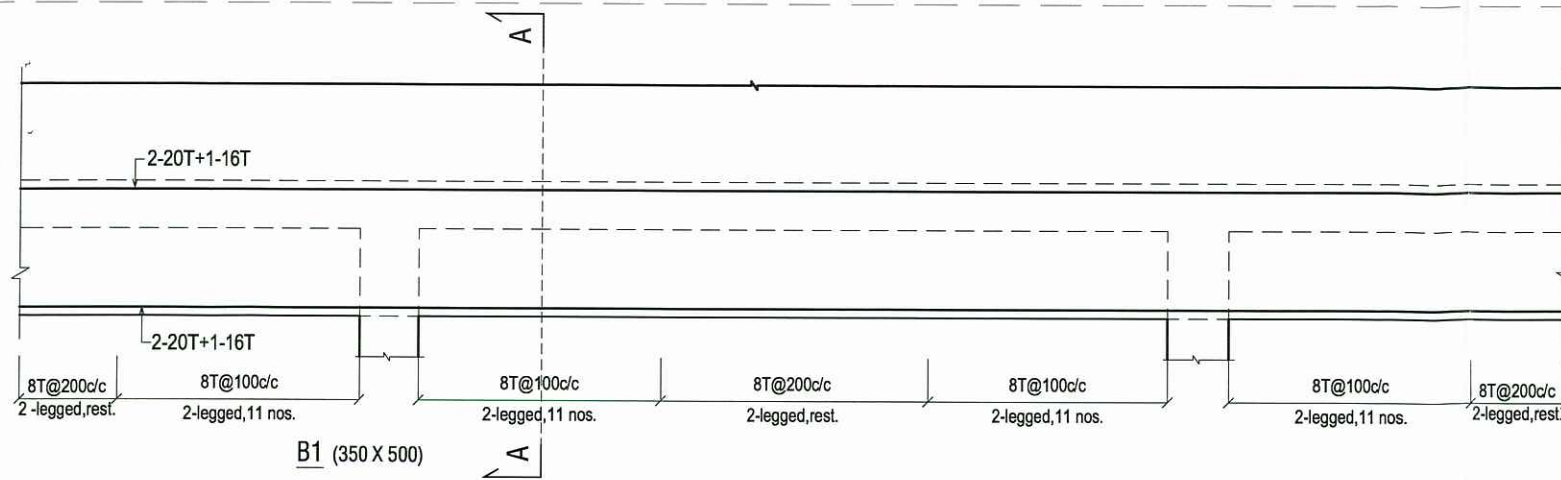
R-0	00-03-15	FOR APPROVAL	01
REV. NO.	DATE	I S S U E	PRINTS
PROJECT:	30000 L CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)		
DRG. TITLE:	STRUCTURAL LAYOUTS OF ALL LVL		
CLIENT:	WASMO GANDHINAGAR		

STRUCTURAL ENGINEERS

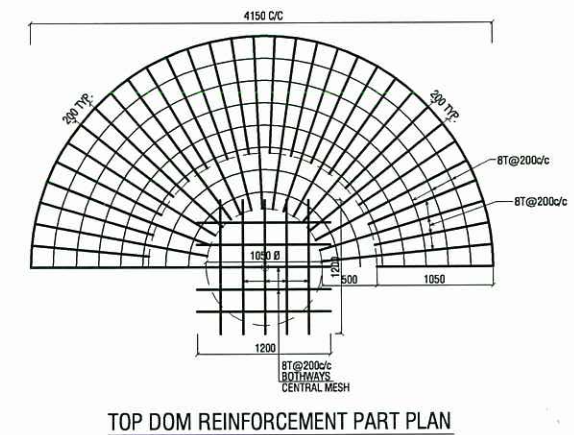
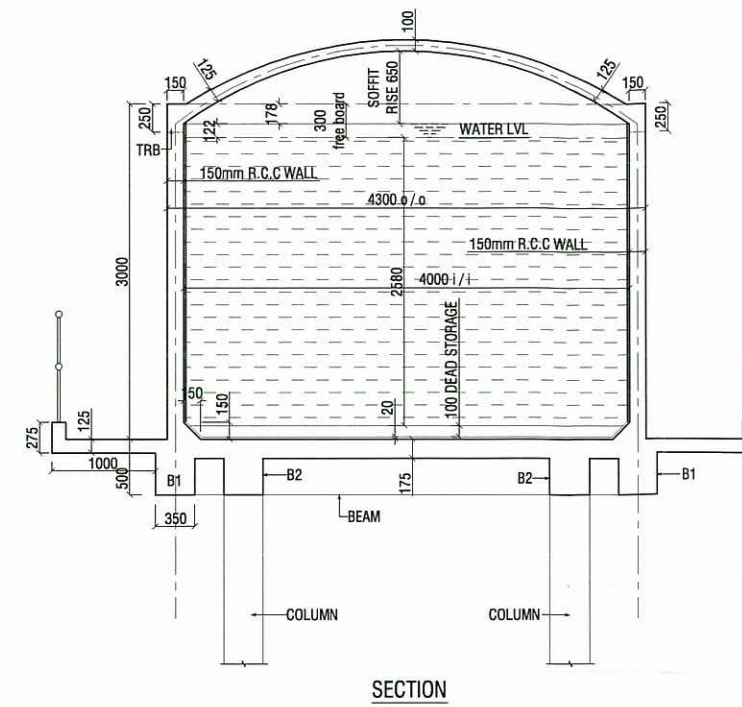
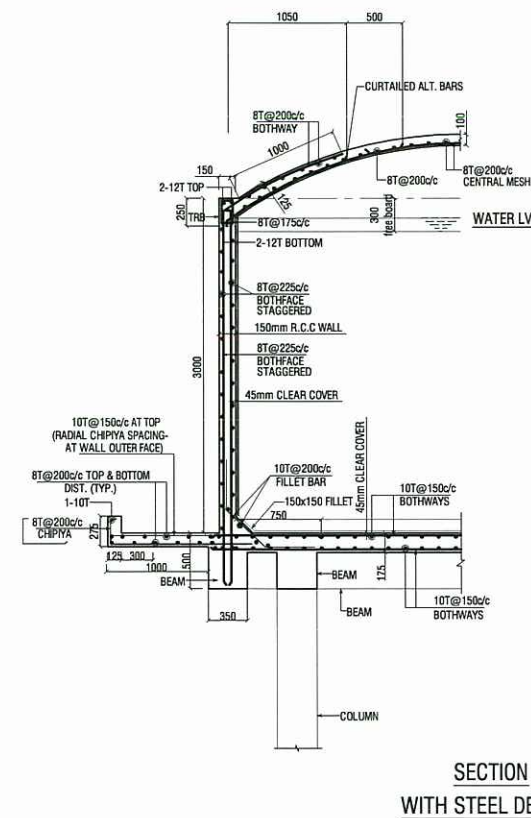
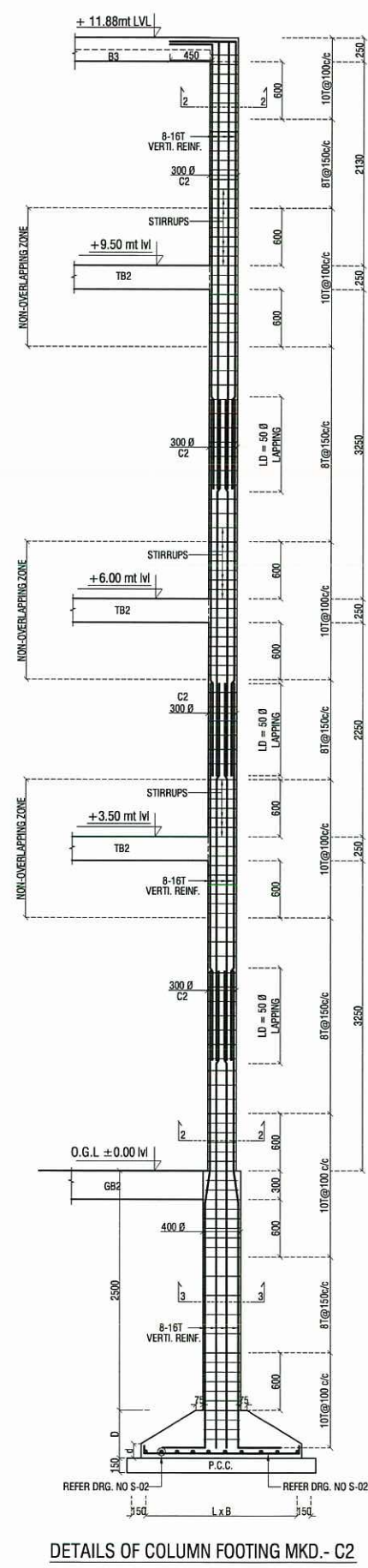
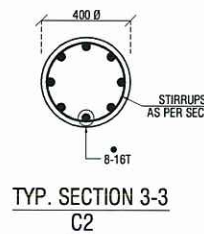
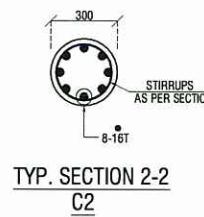
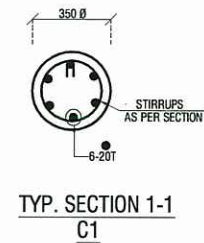
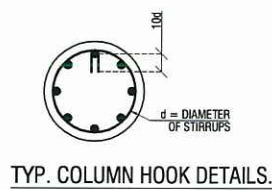
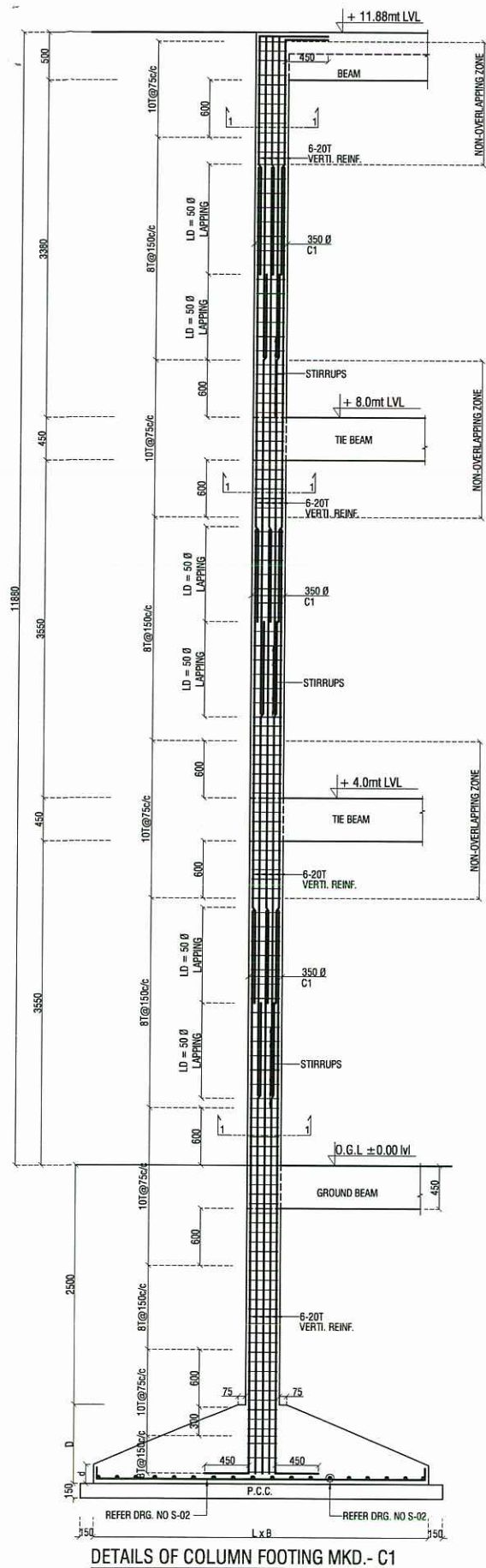
BHOOMI CONSULTANTS

401, SILVER CROSS BUILDING, NEAR SHIVRAJANI CROSS ROAD, SATELLITE, AHMEDABAD
TEL: 079 26921664, FAX: 079 26924915
email: vijaydinhah@yahoo.com, shahvijay@gmail.com
web :

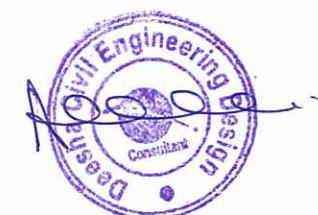
SCALE:	CHECKED	PROJ. NO. :	DRG. NO. :
DRN: ALOK			S/02



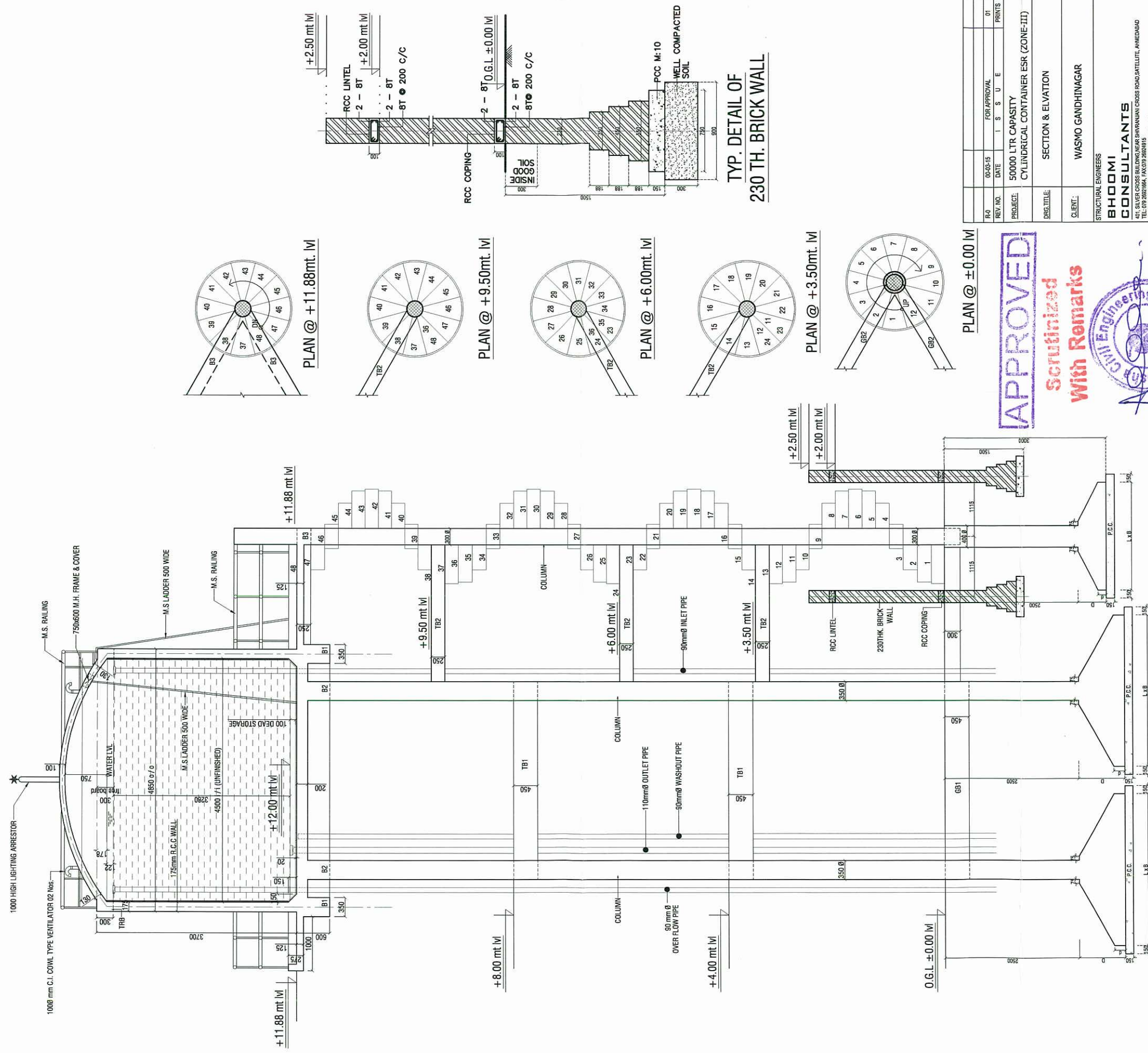
R-0	00-03-15	FOR APPROVAL		01
REV. NO.	DATE	I	S	U
		E		PRINTS
PROJECT:	30000 L CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)			
DRG. TITLE:	STRUCTURAL BEAM DETAILS OF ALL LVL			
CLIENT:	WASMO GANDHINAGAR			
STRUCTURAL ENGINEERS				
BHOOMI CONSULTANTS				
401, SILVER CROSS BUILDING, NEAR SHIVRAJANI CROSS ROAD, SATELLITE, AHMEDABAD TEL: 079 26921664, FAX: 079 26924915 email: vijayshah@yahoo.com, shahvijay@gmail.com web:				
SCALE:	CHECKED	PROJ. NO.:	DRG. NO.:	
DRN: ALOK			S/04	
NDhamendraBHOOMI ALL DRAWINGS DRAWING A TO OESR 2014				



APPROVED
Scrutinized
With Remarks



R-0	00-03-15	FOR APPROVAL	01
REV. NO.	DATE	I S S U E	PRINTS
PROJECT:	30000 L CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)		
DRG. TITLE:	REINFORCEMENT DETAILS OF COLUMN, FOOTING & CONTAINER		
CLIENT:	WASMO GANDHINAGAR		
STRUCTURAL ENGINEERS			
BHOOMI CONSULTANTS			
401, SILVER CROSS BUILDING, NEAR SHIVRAJAN CROSS ROAD, SATELLITE, AHMEDABAD TEL: 079 26921664, FAX: 079 26924915 email: vijaydohra@bhoomi.com, shahvijayd@gmail.com web:			
SCALE:	CHECKED	PROJ. NO. :	DRG. NO. :
DRN: ALOK			S/03
BHOOMI ALL DRAWINGS/DRAWING A TO OESR 2014			



PLAN @ ±0.00 lv

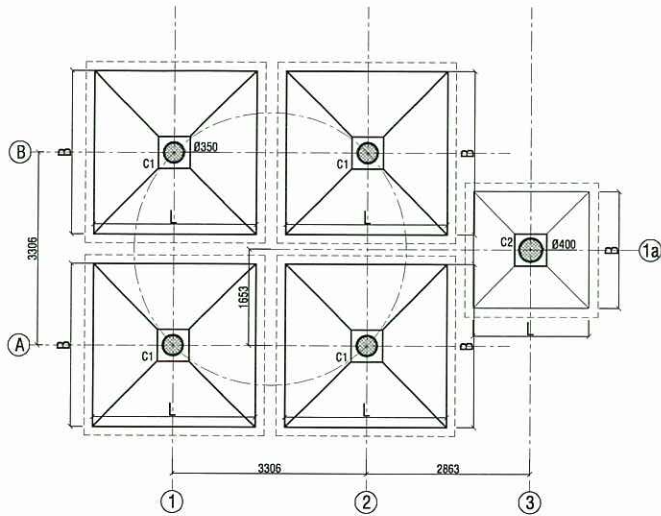
APPROVED

**Scrutinized
With Remarks**

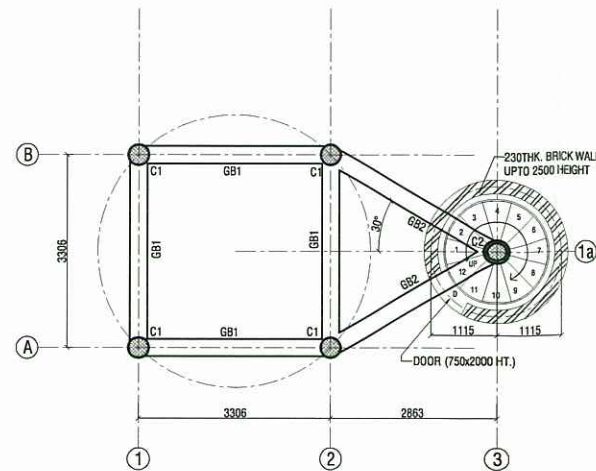


SECTIONAL ELEVATION

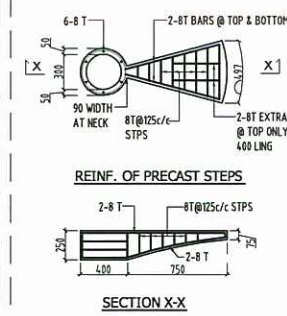
R-2	00-03-15	FOR APPROVAL		01	
REV. NO.	DATE	I	S	U	PRINTS
PROJECT:	50000 LTR CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)				
DRG.TITLE:	SECTION & ELVATION				
CLIENT:	WASMO GANDHINAGAR				
STRUCTURAL ENGINEERS	BHOOMI CONSULTANTS				
401, ELVER CROSS BUILDING NEAR SHIRWANANI CROSS ROAD, SATELLITE, AHMEDABAD tel: 079 26020044, fax: 079 26020015 email: bhoomi@bhoomiconsultants.com, bhoomi@bhoomiconsultants.com web:					
SCALE:		CHECKED	PROJ. NO. :	DRG. NO. :	
DRN:	ALOK			S/01	
100mm=1m. FROM ALL DRAWINGS DRAWING A TO OCSR 2014					



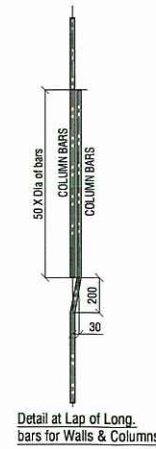
FOUNDATION PLAN



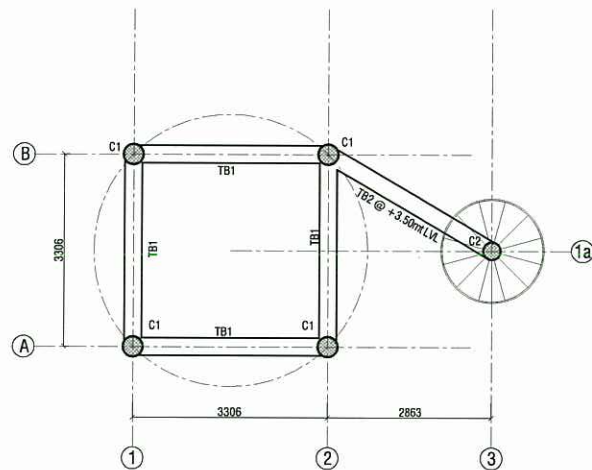
PLAN @ ±0.00 mt LVL



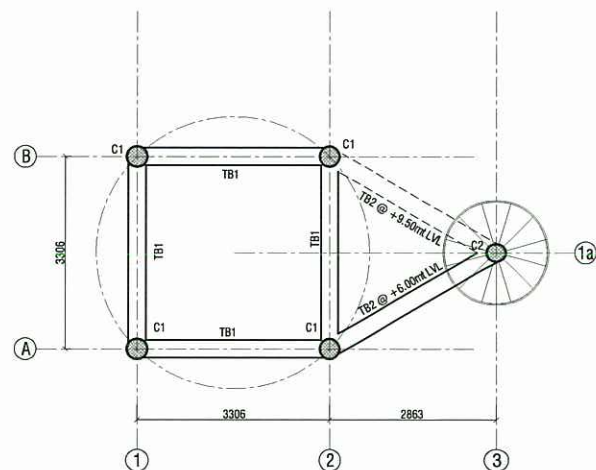
SECTION X-X



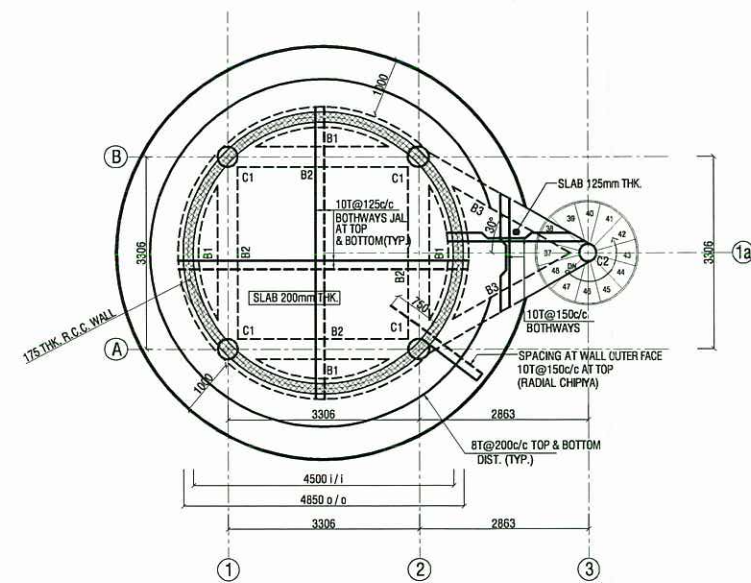
Detail at Lap of Long. bars for Walls & Columns



PLAN @ +4.0mt LVL



PLAN @ + 8.0mt LVL



PLAN @ +11.88mt LVL

STAGING COLUMN & FOOTING SCHEDULE :

SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C1	4-20T+4-16T	2500 X 2500	2800 X 2800	575	150	16-10T	16-10T
2	III	15	M:25	Fe:415	C1	4-20T+4-16T	2100 X 2100	2400 X 2400	550	150	13-10T	13-10T
3	III	20	M:25	Fe:415	C1	4-20T+4-16T	1800 X 1800	2100 X 2100	525	150	11-10T	11-10T
4	III	25	M:25	Fe:415	C1	4-20T+4-16T	1600 X 1600	1900 X 1900	475	150	11-10T	11-10T

STAIR COLUMN & FOOTING SCHEDULE :

SR.NO	ZONE	S.B.C	Concrete	Steel	COL. NO.	COL STEEL	FOOTING SIZE	P.C.C SIZE	D	d	// TO SHORT SIDE OF FOOTING	// TO LONG SIDE OF FOOTING
1	III	10	M:25	Fe:415	C2	8-16T	2000 x 2000	2300 x 2300	475	150	11-10T	11-10T
2	III	15	M:25	Fe:415	C2	8-16T	1800 x 1800	2100 x 2100	475	150	10-10T	10-10T
3	III	20	M:25	Fe:415	C2	8-16T	1600 x 1600	1900 x 1900	450	150	9-10T	9-10T
4	III	25	M:25	Fe:415	C2	8-16T	1500 x 1500	1800 x 1800	450	150	8-10T	8-10T

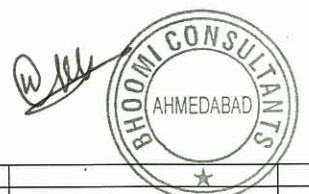
APPROVED

Scrutinized
With Remarks



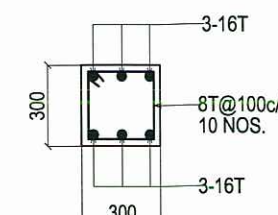
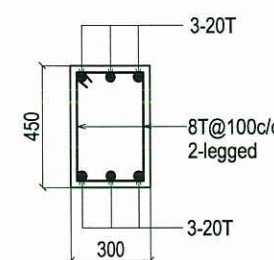
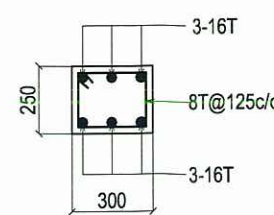
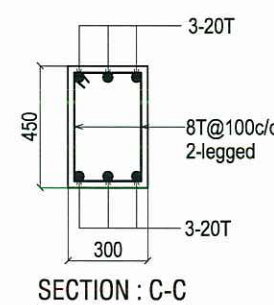
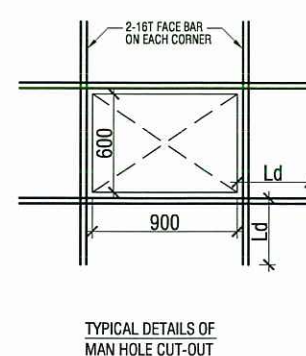
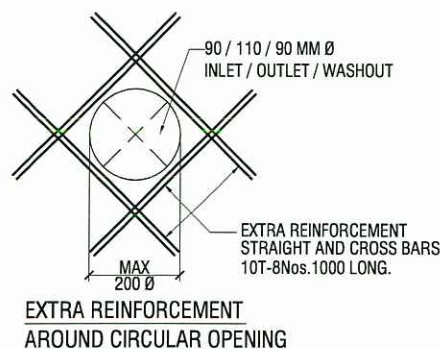
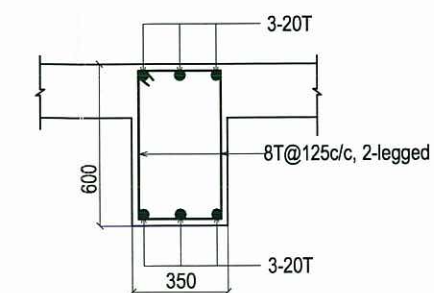
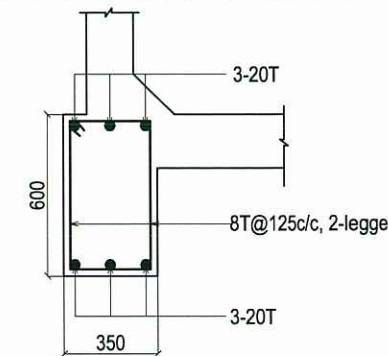
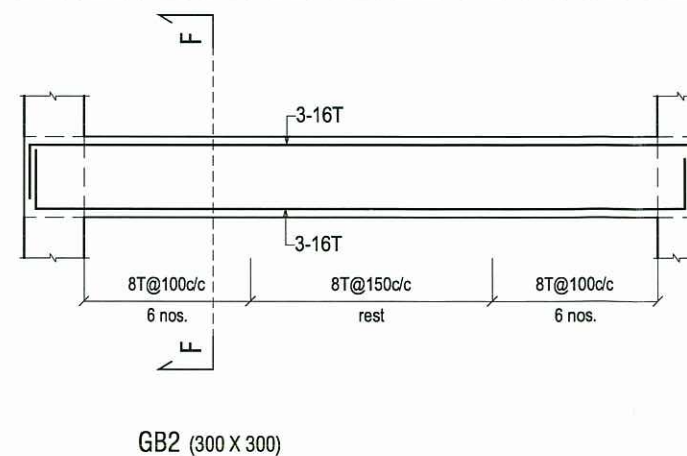
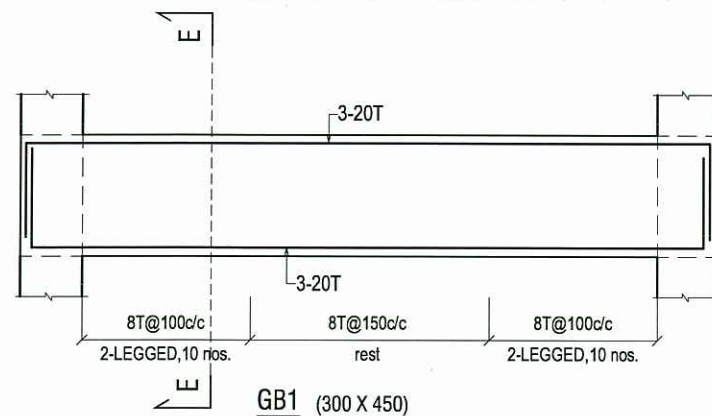
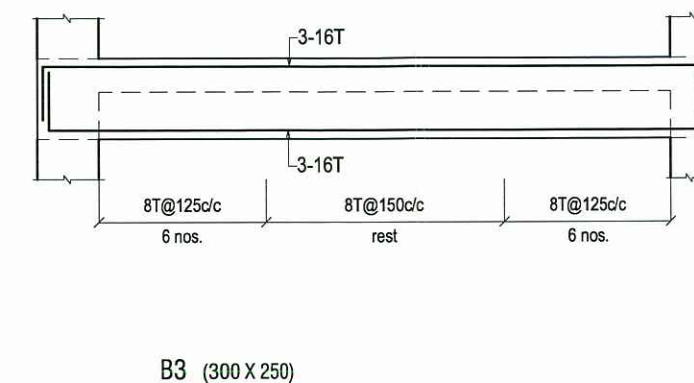
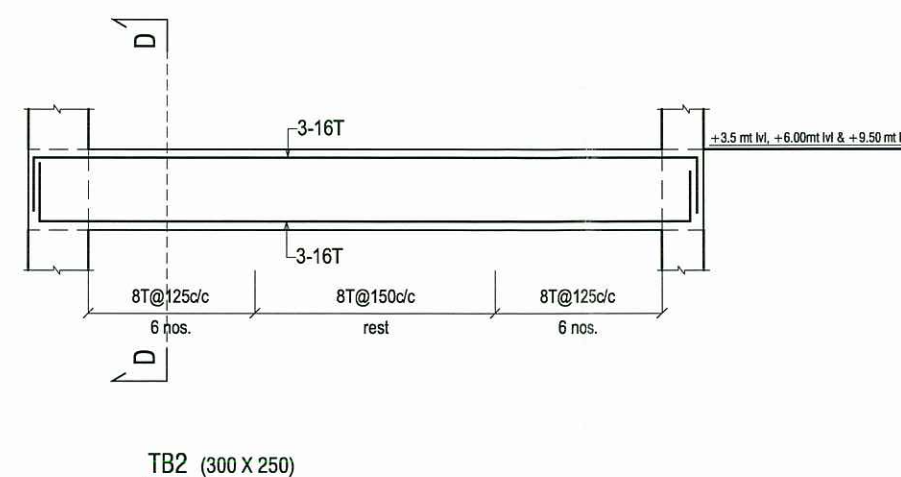
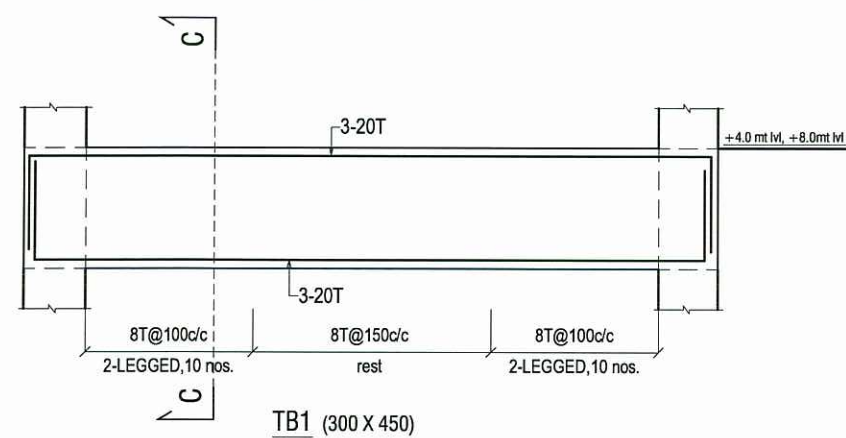
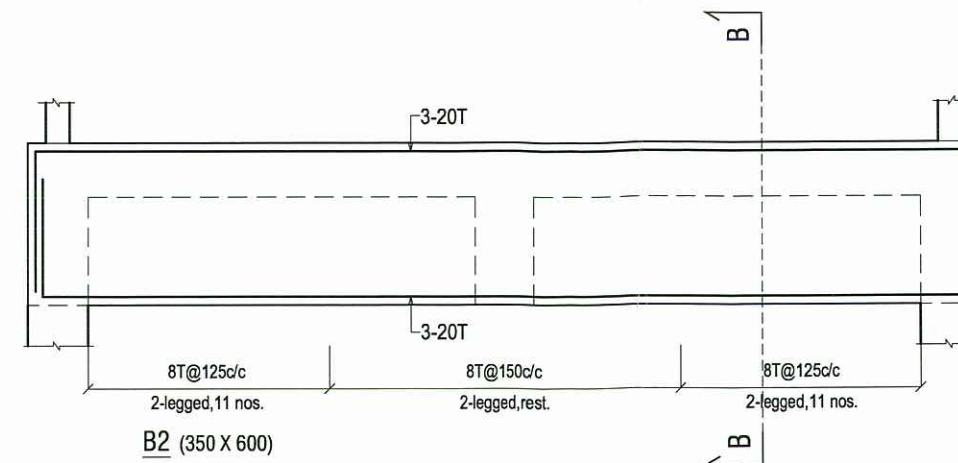
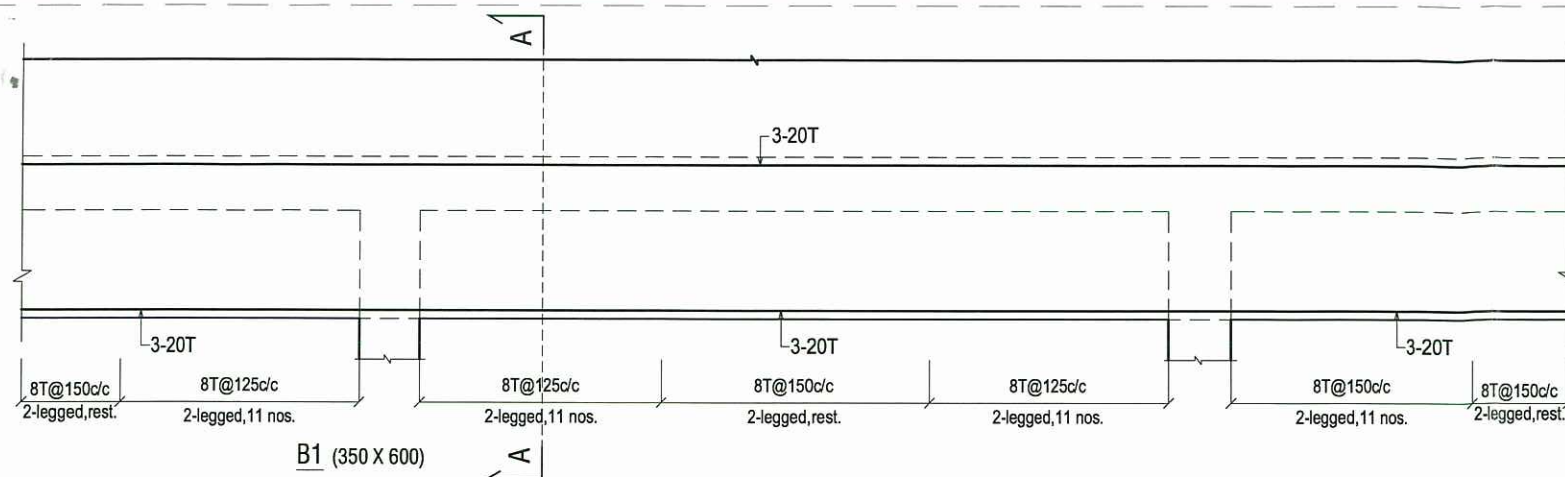
NOTES :

- ALL DIMENSIONS ARE GIVEN IN MILLIMETRES UNLESS OTHERWISE STATED.
- CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS BEFORE EXECUTION OF THE WORK.
- GRADE OF CONC FOR R.C.C. CONTAINER WORK SHALL BE M 30 & STAGING WORK SHALL BE M 25 CONFORMING TO IS 456 OF 2000.
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.:13920 -1993, I.S.: 1893-2002, GSDMA GUIDELINE IS CONSIDERED.
- ALL STEEL CONFORM I.S.1786-1985 FE : 415
- SHUTTERING SHOULD BE MADE WITH RIGID STEEL FRAMING WITH EITHER STEEL OR WATER-PROOF PLYWOOD CLADDING. THERE SHOULD BE ARRANGEMENT FOR FIXING PERMANENT PLUMB-BOB FOR CHECKING PLUMB IN TWO ORTHOGONAL DIRECTIONS SIMULTANEOUSLY.
- DO NOT APPLY OIL OR ANY STICKY LUBRICANT TO FORMS BEFORE CASTING CONCRETE. USE SPECIAL DE-SHUTTERING CHEMICAL OR VOLATILE LUBRICANT. FORMS SHOULD BE CLEANED IMMEDIATELY AFTER DE-SHUTTERING EVERY STAGE OF CONCRETING.
- REINFORCEMENT BARS SHOULD BE CUT, BENT, JOGGLED OR HOOKED AS SHOWN ON DRAWING. IN CASE, IF ANY DETAILS ARE MISSING OR ARE AMBIGUOUS, CLARIFICATION SHALL BE OBTAINED FROM THE CONSULTANT BEFORE STARTING WORK. LAPS SHALL BE PROVIDED WITH PRECISE LENGTH, LOCATION, LENGTH OF JOGGLE AND ALIGNMENT. DO NOT PROVIDE SPLICES OR LAPS AT ANY ARBITRARY LOCATION. IF SITE CONDITIONS REQUIRE LOCATION OF LAPS AT ANY OTHER POSITION, PRIOR APPROVAL SHOULD BE OBTAINED FROM THE CONSULTANT.
- STIRRUPS AND COLUMN-LINKS SHOULD HAVE 135° BENDS WITH MINIMUM 10D EXTENSION BEYOND THE CURVED LENGTHS. IN CASE OF MULTIPLE RINGS/STIRRUPS LOCATION OF BENDS SHOULD BE PROPERLY PLANNED TO AVOID ENTANGLEMENT OF VIBRATOR NEEDLE.
- LONGITUDINAL BARS IN COLUMNS SHOULD BE ORIENTED IN SUCH A WAY THAT THE BARS FROM BRACES CAN BE PLACED COMFORTABLY WITHOUT UNDUE CROWDING AND CROSSING. THE DETAILS OF PROBABLE LOCATIONS ARE SHOWN ON DRAWING, HOWEVER MORE EFFICIENT ARRANGEMENT OF BARS CAN BE PLANNED ON SITE BY ACTUAL TAMPLATING. UNIFORM OR RANDOM PLACEMENT OF LONGITUDINAL BARS OF COLUMNS MIGHT INVITE DIFFICULTIES WHILE FIXING REINFORCEMENT OF OTHER ELEMENTS CONNECTED WITH IT.
- IN ALL CIRCULAR WALL MEMBER CARE SHOULD BE TAKEN TO ENSURE THAT ALL CIRCULAR RING REINF. ARE NOT LAPPED IN ONE VERTICAL PLANE. LAPS SHOULD BE STAGGERED AROUND THE PERIPHERY.
- HYDROTESTING SHALL BE DONE IN ACCORDANCE WITH IS:2911 (PART 4) LATEST BY MAINTAINED LOAD METHOD.
- AT ALL THE JUNCTIONS OF THE TANK PORTION, IT SHOULD BE ENSURED THAT THE REINFORCEMENT OF ONE MEMBER IS FULLY ANCHORED TO ITS CONNECTED MEMBER WHEREVER CONTINUITY IS TO BE MAINTAINED.
- THE PIPES SHALL BE TAKEN AS POSSIBLE ALONG AND VERY CLOSE TO SIDE WALLS OF THE RESERVOIR & SHALL BE SUPPORTED ON M.S. CLAMPS MADE OF 40MM G.I. BOLTS & NUTS
- OVERFLOW AND WASHOUT PIPE SHALL BE LEFT WELL BEYOND THE PLINTH
- WALLS AND BOTTOM SLAB SHALL BE CAST IN SEQUENTIAL ORDER.
- CURING PERIOD SHALL BE 28 DAYS MINIMUM.
- CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS:
BASE SLAB : 45mm
WALL : 45 mm (BOTH FACES)
CIRCULAR GIRDER : 45mm (ALL SIDES)
BRACING BEAM : 30mm (ALL SIDES)
RAFT/FOOTING : 50mm (ALL AROUND)
- ALL INSIDE FACES TO RECEIVE 20 MM THK. WATER PROOF PLASTER WITH APPROVED WATER PROOFING COMPOUND IN CM 1:2
- ALL INLETS/OUTLETS OVER FLOW PIPES MAN HOLE FRAMES ETC. TO BE LEFT IN POSITION BEFORE CONCRETING
- DEVELOPMENT LENGTH IS TO BE TAKEN 50d, (d = DIA OF BARS)
- FOR DESIGN OF THIS ESR I.S.: 456-2000, I.S.:13920 -1993, I.S.: 1893-2002, GSDMA GUIDELINE AND ZONE-III FOR E.Q. HAS BEEN CONSIDERED.

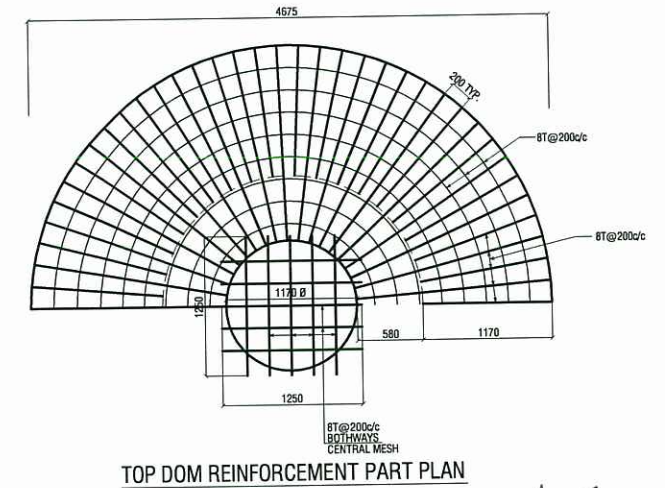
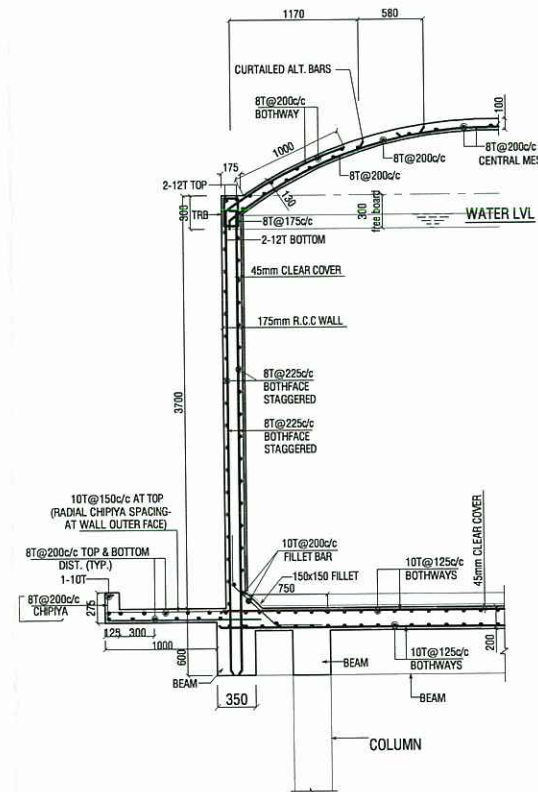
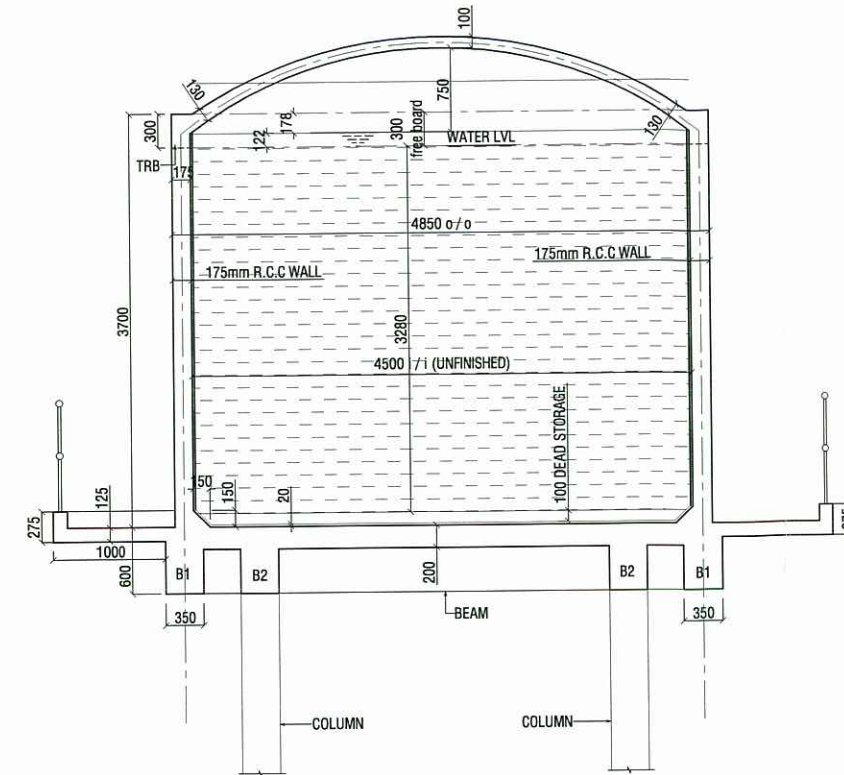
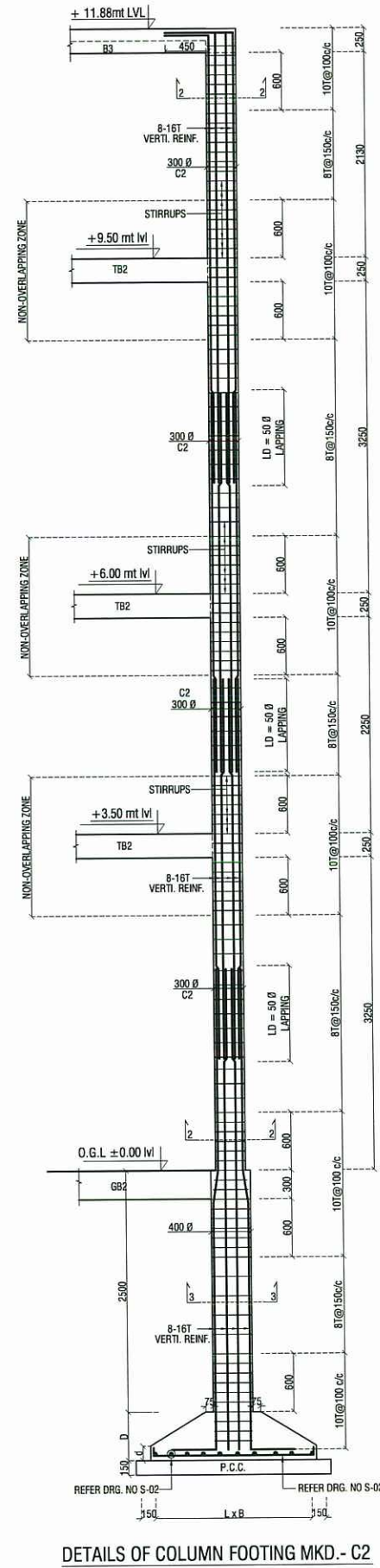
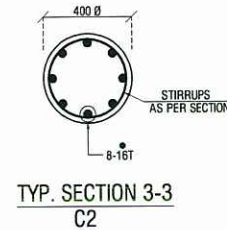
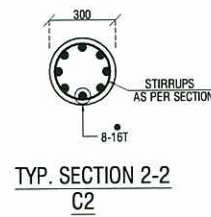
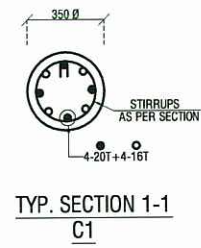
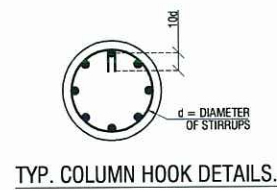
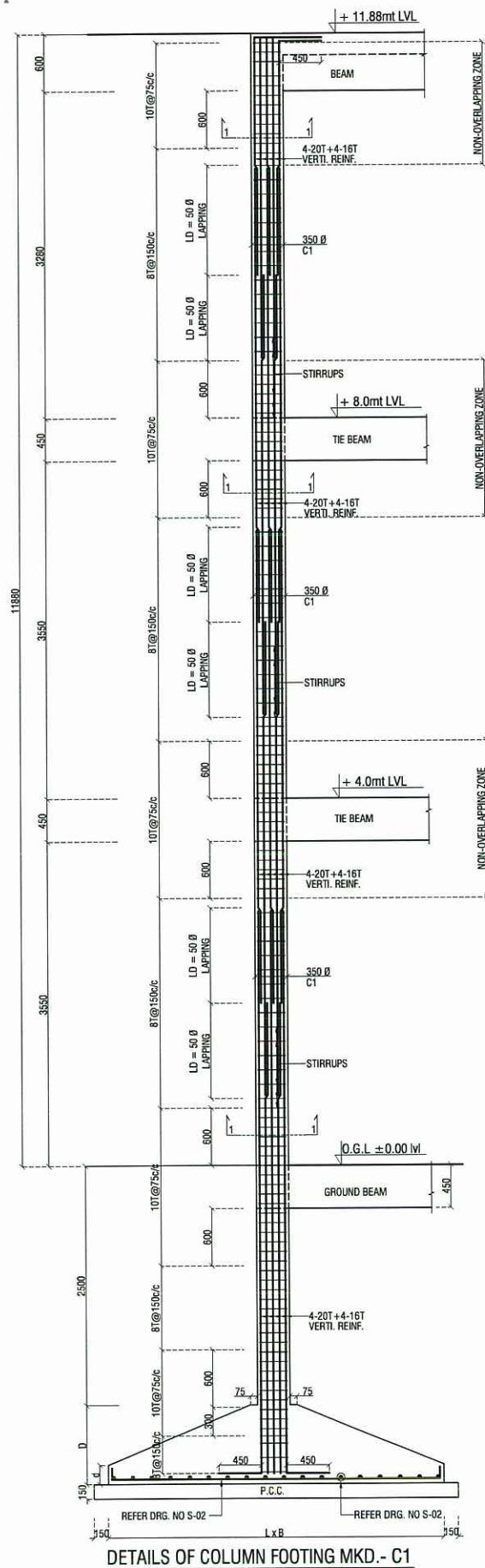


R-0	00-03-15	FOR APPROVAL	01
REV. NO.	DATE	I S S U E	PRINTS
PROJECT:	50000 LTR CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)		
DRG. TITLE:	STRUCTURAL LAYOUTS OF ALL LVL		
CLIENT:	WASMO GANDHINAGAR		

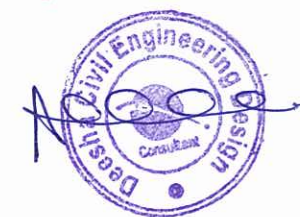
STRUCTURAL ENGINEERS			
BHOOMI CONSULTANTS			
401, SILVER CROSS BUILDING, NEAR SHIVRAJANI CROSS ROAD, SATELLITE, AHMEDABAD TEL: 079 26921664, FAX: 079 26924915 email: vijaydinh@yahoo.com, shivjayd@gmail.com web :			
SCALE:	CHECKED	PROJ. NO. :	DRG. NO. :
DRN: ALOK			S/02
\\Dharmendra\\BHOOMI ALL DRAWINGS\\DRAWING A TO O\\ESR 2014			



R-D	00-03-15	FOR APPROVAL	01
REV. NO.	DATE	I S S U E	PRINTS
PROJECT:	50000 LTR CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)		
DRG. TITLE:	STRUCTURAL BEAM DETAILS OF ALL LVL		
CLIENT:	WASMO GANDHINAGAR		
STRUCTURAL ENGINEERS			
BHOOMI CONSULTANTS			
401, SILVER CROSS BUILDING NEAR SHIVRAJANI CROSS ROAD, SATELLITE, AHMEDABAD TEL: 079 26621664, FAX: 079 26624919 email: vijaykumar@yahoo.com, shahvijay@gmail.com web:			
SCALE:	CHECKED	PROJ. NO. :	DRG. NO. :
DRN: ALOK			S/04
\\dhamendra\BHOOMI\ALL DRAWINGS\DRAWING A TO OESR 2014			



APPROVED
Scrutinized
With Remarks



R-O	00-03-15	FOR APPROVAL					01
REV. NO.	DATE	I	S	S	U	E	PRINTS
PROJECT:	50000 LTR CAPACITY CYLINDRICAL CONTAINER ESR (ZONE-III)						
DRG. TITLE:	REINFORCEMENT DETAILS OF COLUMN, FOOTING & CONTAINER						
CLIENT:	WASMO GANDHINAGAR						
STRUCTURAL ENGINEERS							
BHOOMI CONSULTANTS							
401, SILVER CROSS BUILDING, NEAR SHIVRAMJI CROSS ROAD, SATELLITE, AHMEDABAD TEL: 079 26921664, FAX: 079 26924915 email: vijaydshah@bhoomi.com, shahvijay@gmail.com web:							
SCALE:	CHECKED		PROJ. NO.:		DRG. NO.:		
DRN: ALOK					S/03		
W:\Dharmendra\BHOOMI\ALL DRAWINGS\DRAWING A TO OESR 2014							