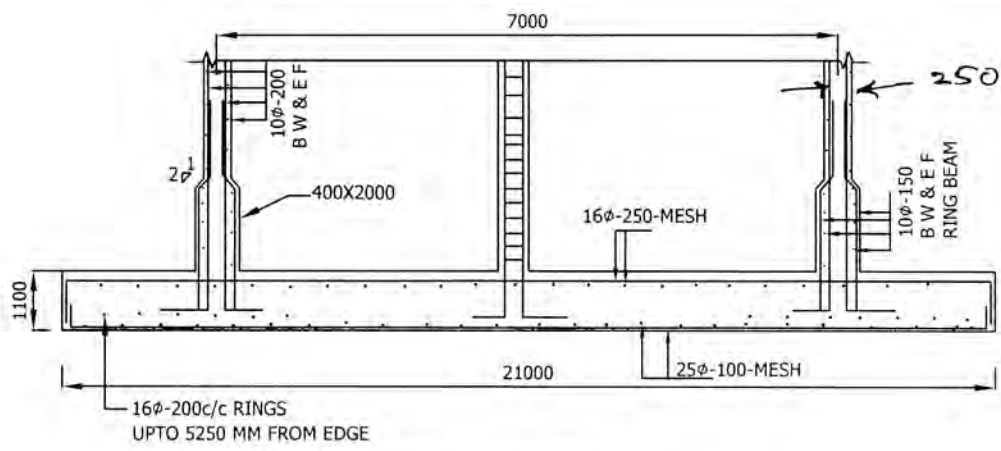
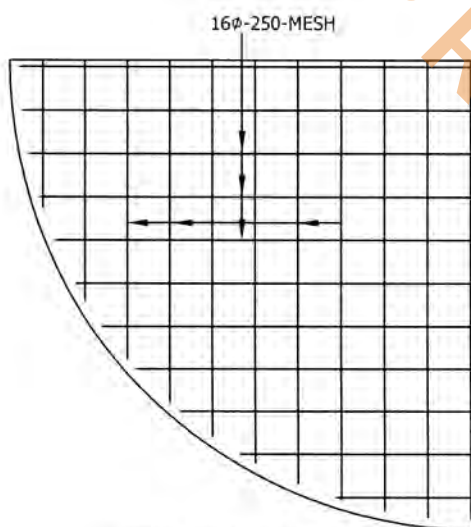
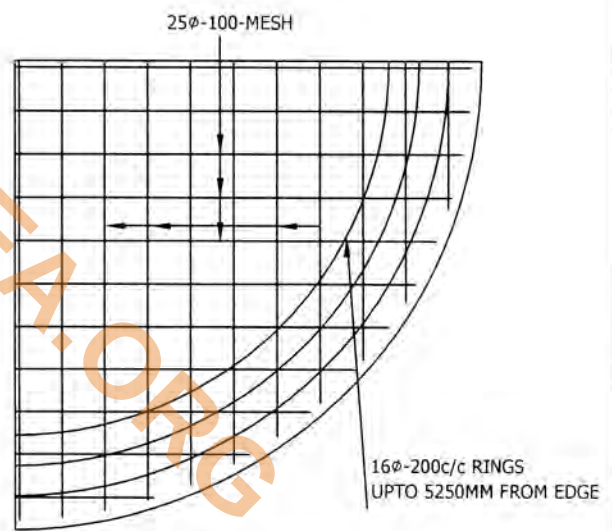




SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-5 T/SQM

[Signature]
Asst Executive Engineer

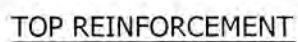
[Signature]
15.2.19
Dy.Executive Engineer

[Signature]
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

SCHEME:

150 K.L OHBR 30.00M STG.

DRGNO:3

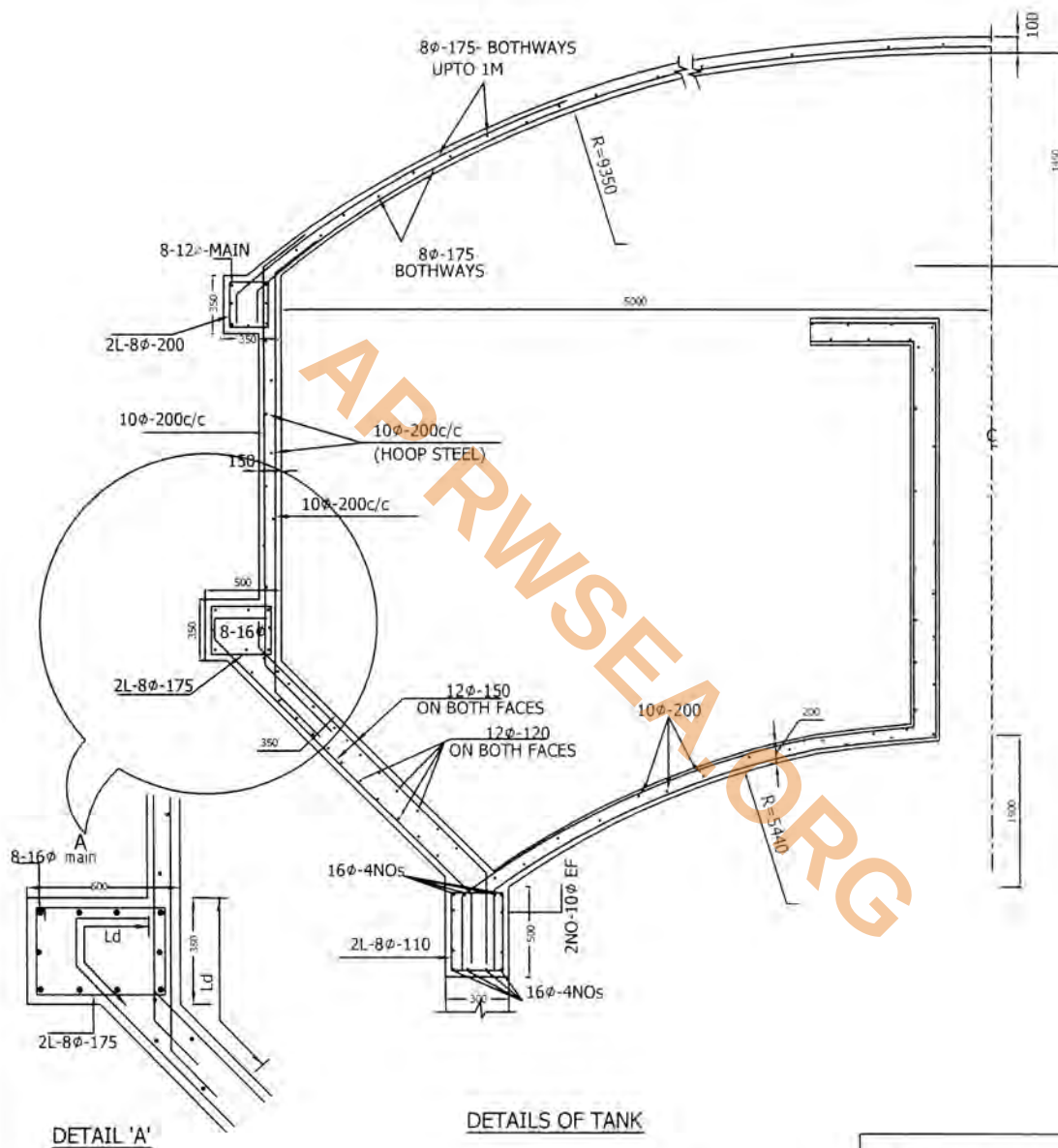


- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND
LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOIL-10 T/SQM

907
15.2.2019
Dy. Executive Engineer

/ Approved /
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

DRGNO:3



SCHEME:

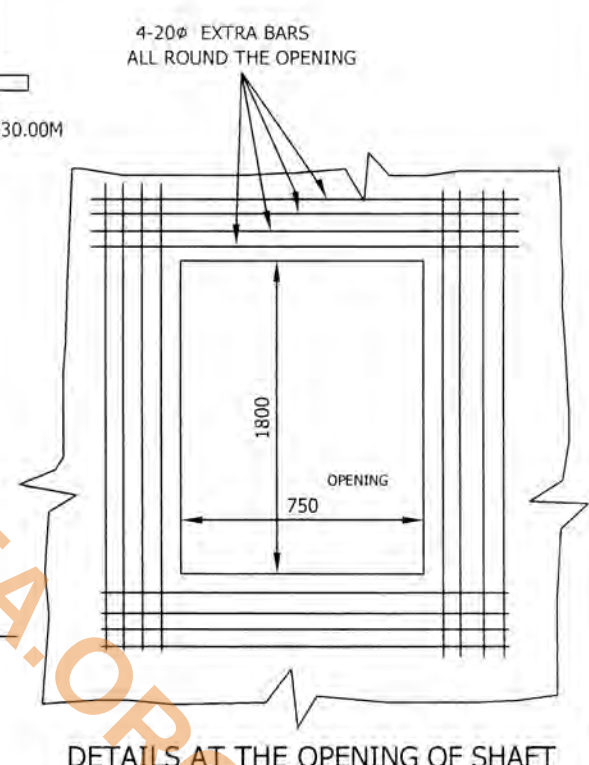
200KL-OHBR-STAGING: 30.00M

DRGNO:2

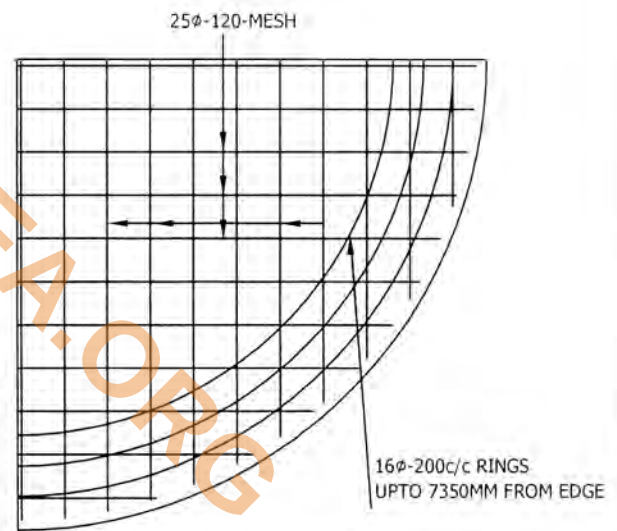
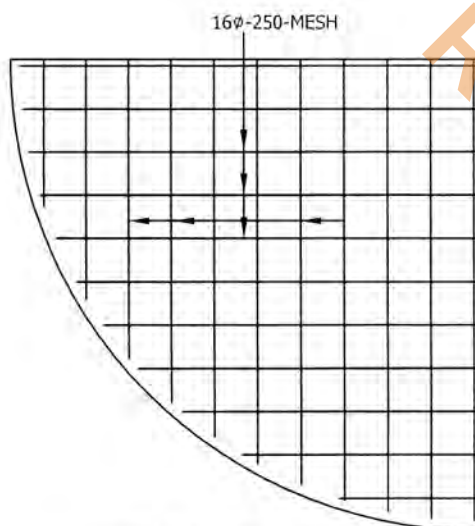
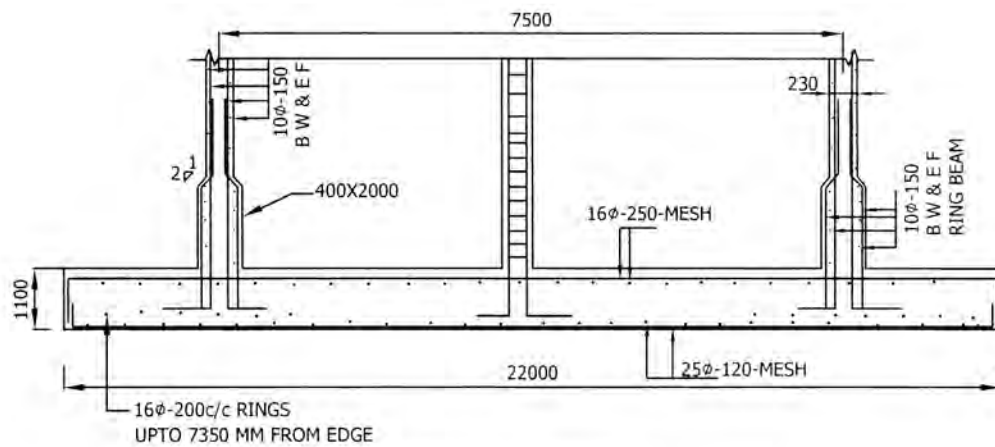
Rn
Asst Executive Engineer

15/2/2019
Asst Executive Engineer

[Signature]
Asst Executive Engineer



SCHEME:
200 K.L OHBR 30.00M STG.
DRGNO:1



NOTE:

- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 150KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOIL:-5 T/SQM

Asst Executive Engineer

15.2.2019
Dy.Executive Engineer

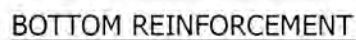
Approved

Chief Engineer-II
RWS&S,Gollapudi
Vijayawada.

SCHEME:

200 K.L OHBR 30.00M STG.

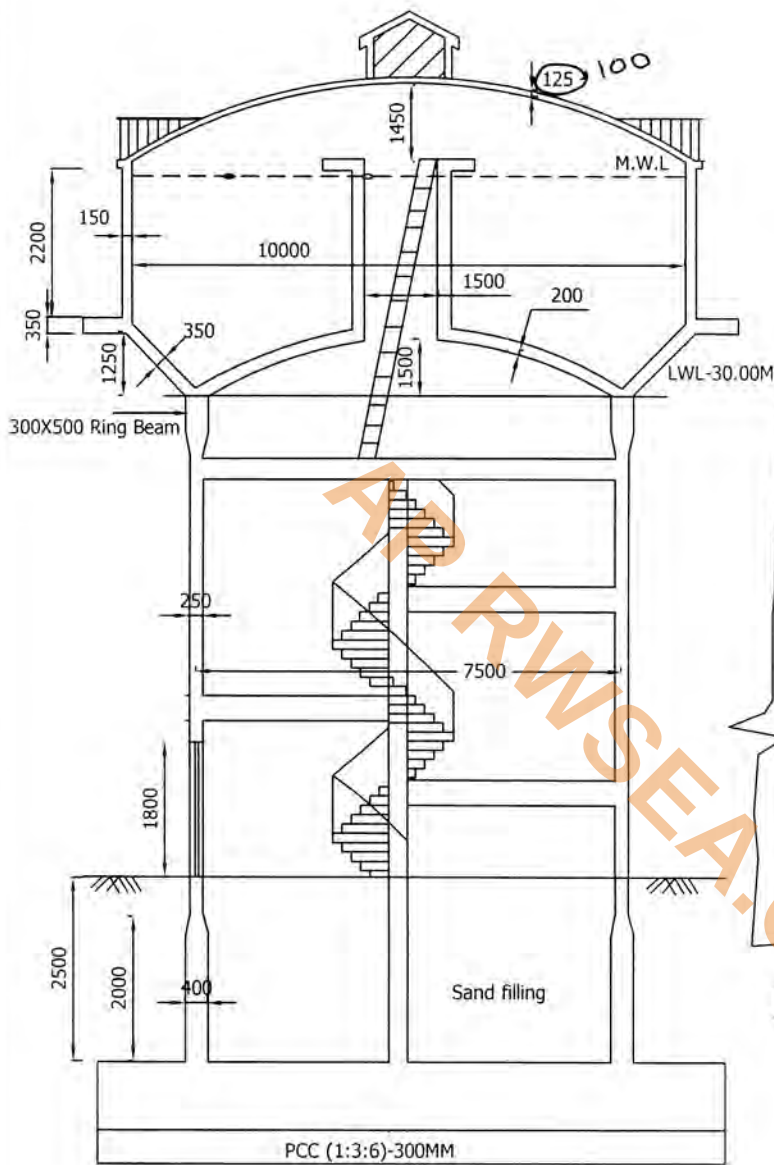
DRGNO:3



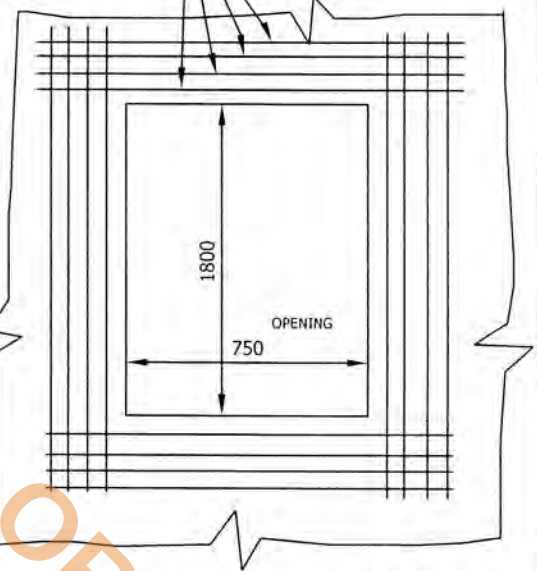
DRGNO:3



DRGNO:3



4-20 ϕ EXTRA BARS
ALL ROUND THE OPENING



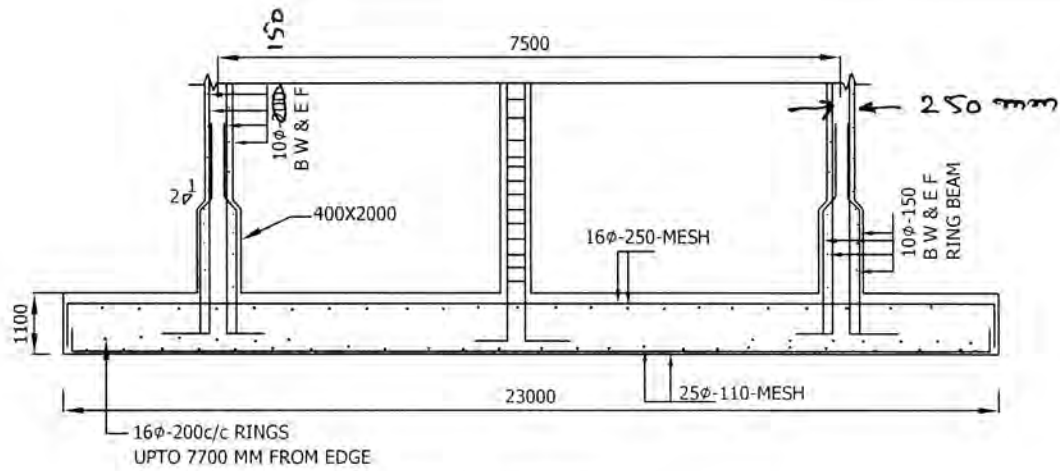
DETAILS AT THE OPENING OF SHAFT

POR
Asst Executive Engineer

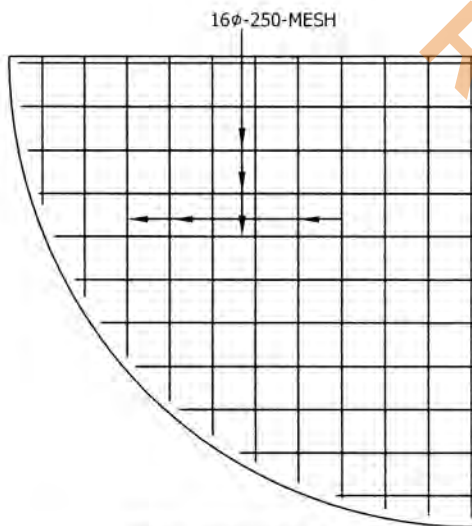
930
15.2.2019
Dy. Executive Engineer

[Signature]
Approved
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

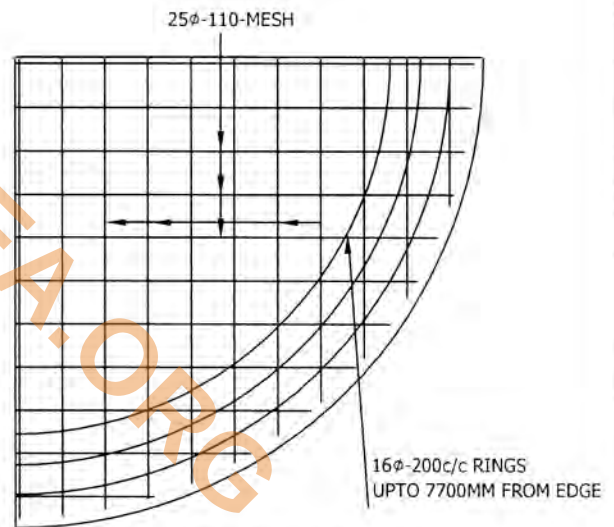
Wind Speed : 200 KMPH
SCHEME:
200 K.L OHBR 30.00M STG.
DRGNO:1



SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-S T/SQM

H.P.R.
Asst Executive Engineer

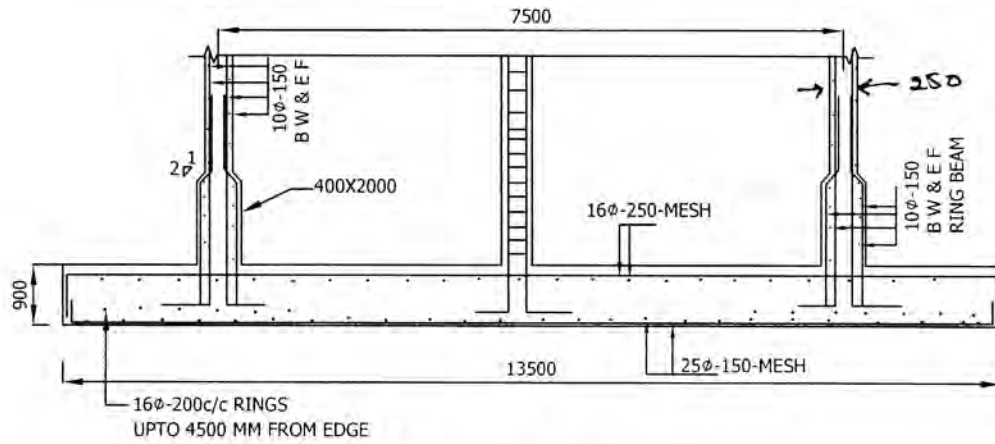
SJB
15.2.2019
Dy.Executive Engineer

//Approved//
[Signature]
Chief Engineer-II
RWS&S,Gollapudi
Vijayawada.

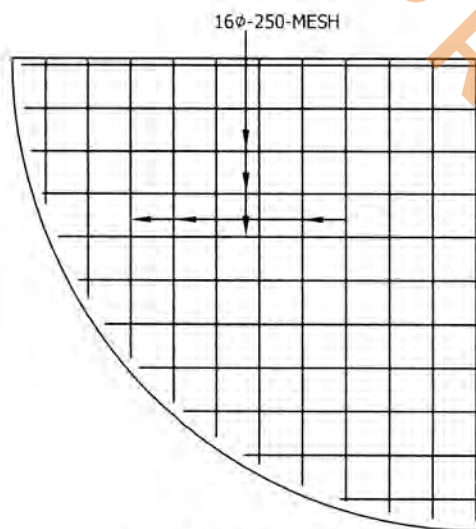
SCHEME:

200 K.L OHBR 30.00M STG.

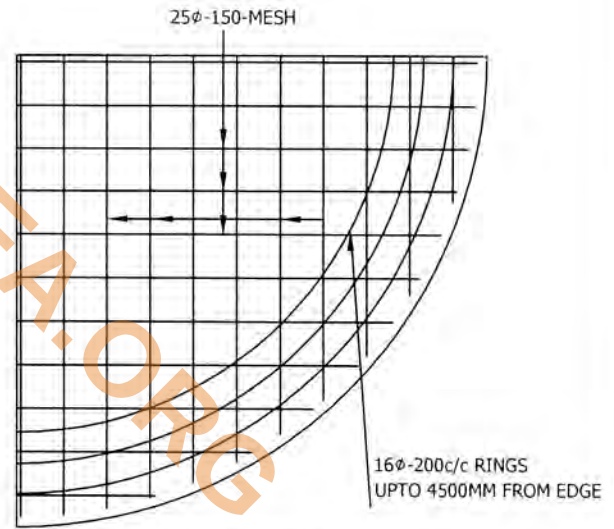
DRGNO:3



SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-10 T/SQM

Pur
Asst Executive Engineer

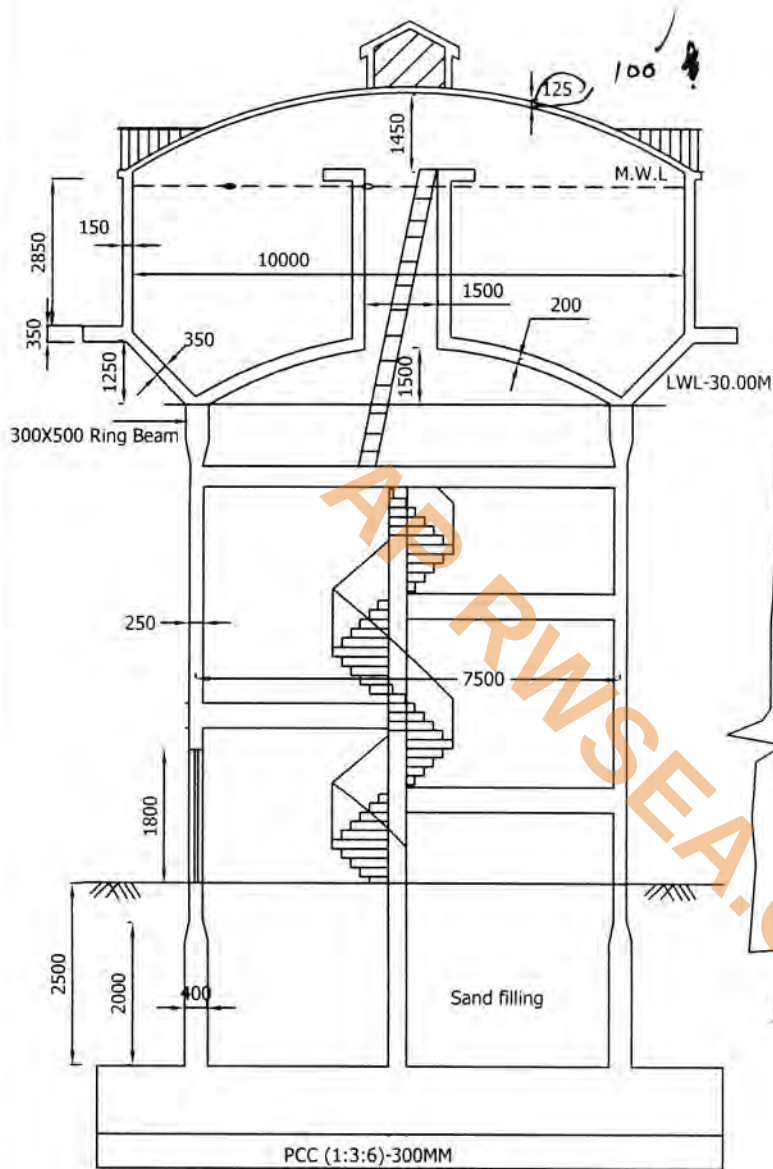
T25
15.2.2019
Dy.Executive Engineer

Approved
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

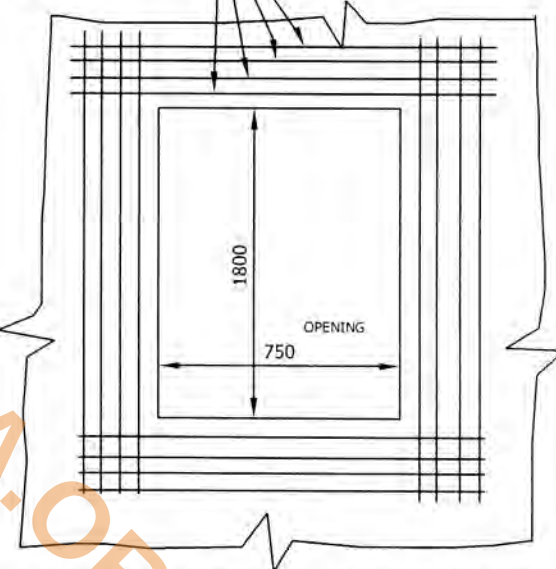
SCHEME:

200 K.L OHBR 30.00M STG.

DRGNO:3



4-20 ϕ EXTRA BARS
ALL ROUND THE OPENING



DETAILS AT THE OPENING OF SHAFT

bn
Asst Executive Engineer

15.2.2019
Dy. Executive Engineer

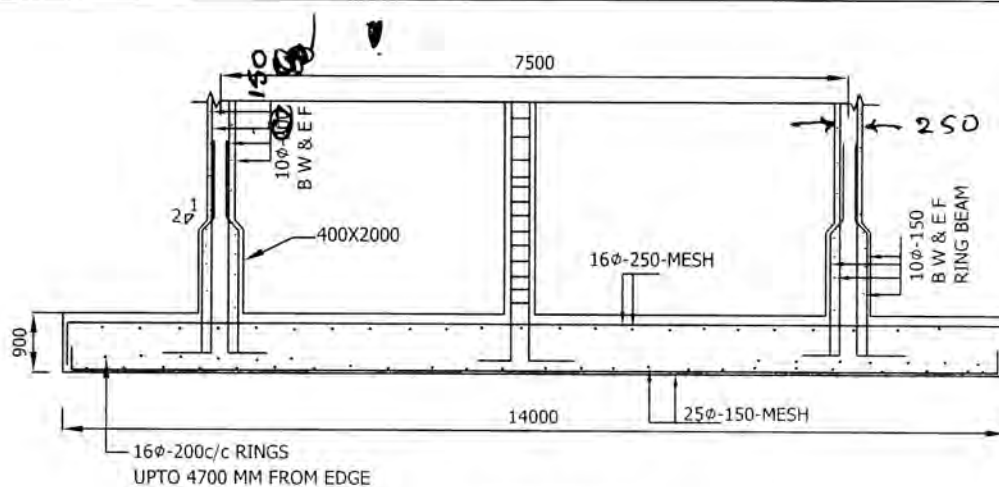
// Approved //
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

WIND SPEED - 200 KMPH

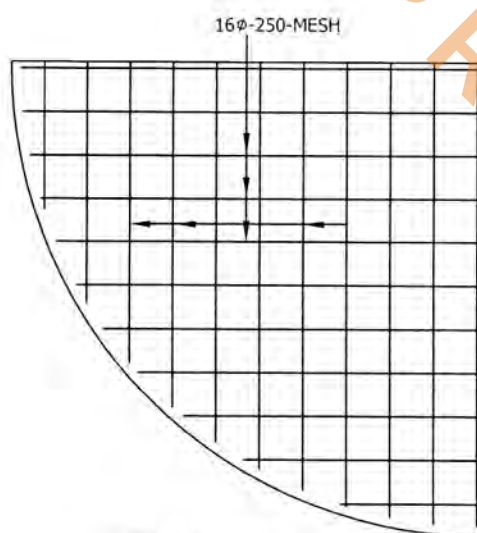
SCHEME:

250 K.L OHBR 30.00M STG.

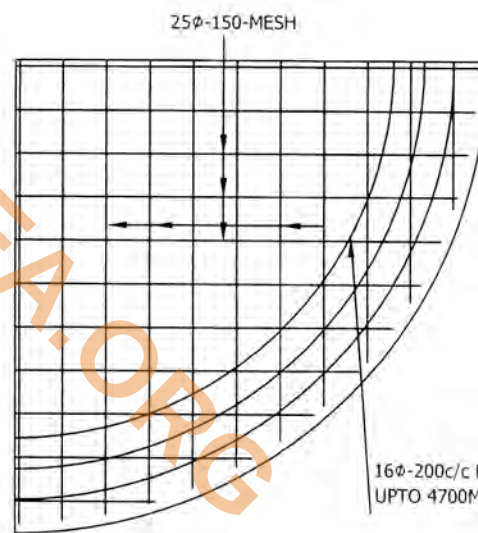
DRGNO:1



SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

- 1.GRADE OF CONCRETE : M30
- 2.GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
- 4.DEPTH OF FOUNDATION:2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
- 5.ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-10 T/SQM

R.R.
Asst Executive Engineer

S.M.
15.2.2019
Dy.Executive Engineer

/Approved//
[Signature]
Asst Engineer-II
R.V.R.S., Gollapudi
Vijayawada.

SCHEME:

250 K.L OHBR 30.00M STG.

DRGNO:3



1. GRADE OF CONCRETE : M30
2. GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 200KMPH
4. DEPTH OF FOUNDATION: 2.50m BELOW GROUND LEVEL UP TO TOP OF RAFT
5. ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-5 T/SQM

POK
 Asst. Exec. Engineer

15.2.19
 Executive Engineer

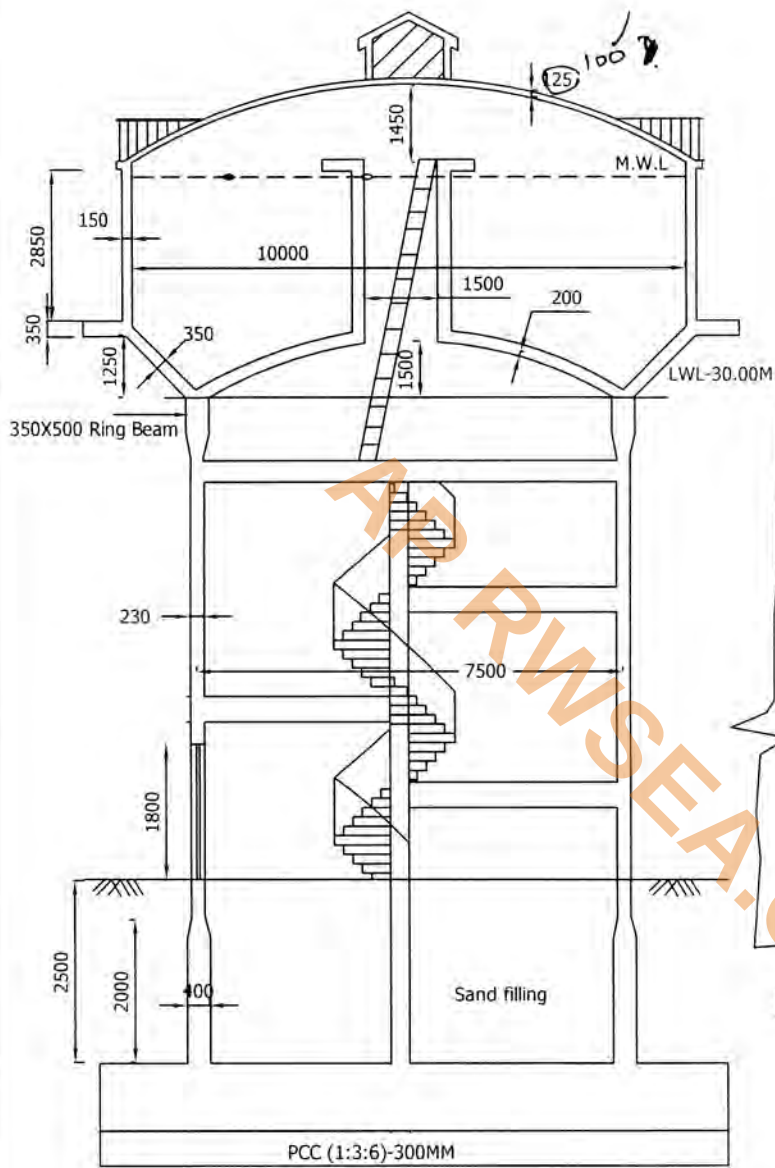
Dy. ~~Executive Engineer~~

Approved//

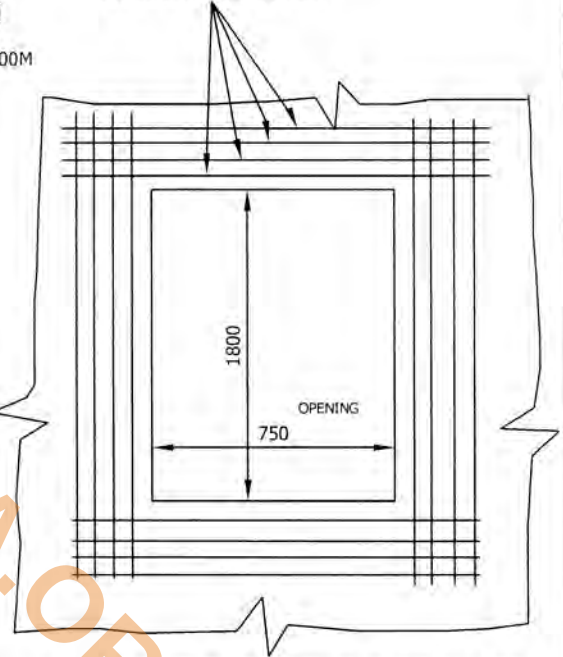
 Chief Engineer-II
 RWS&S, Gollapudi
 Vijayawada.

250 K.L OHBR 30.00M STG.

413



4-20 ϕ EXTRA BARS
ALL ROUND THE OPENING



DETAILS AT THE OPENING OF SHAFT

P. S. R.
Asst Executive Engineer

R. S. S.
15.2.2019
Dy. Executive Engineer

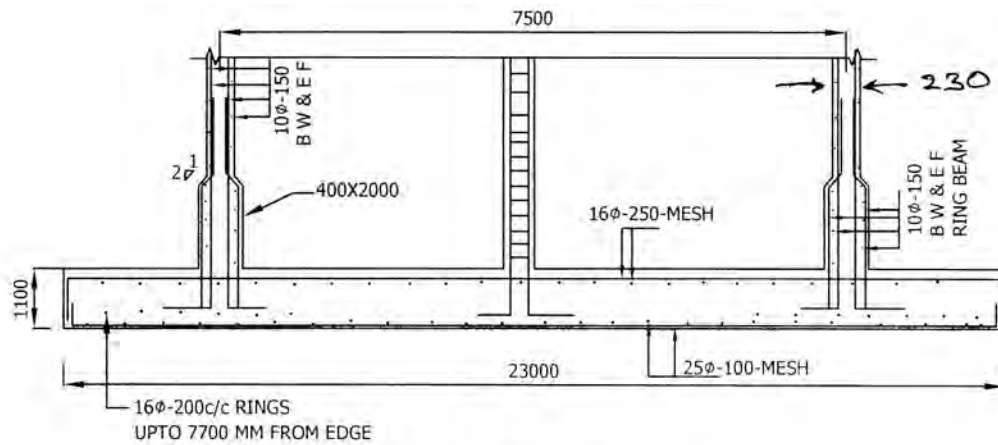
[Signature]
//Approved//
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

WIND SPEED - 150 KMPH

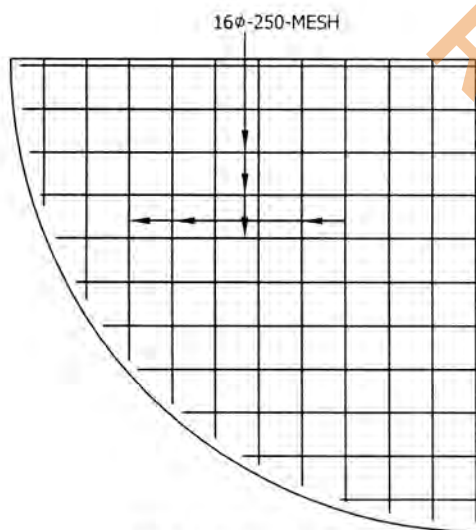
SCHEME:

250 K.L OHBR 30.00M STG.

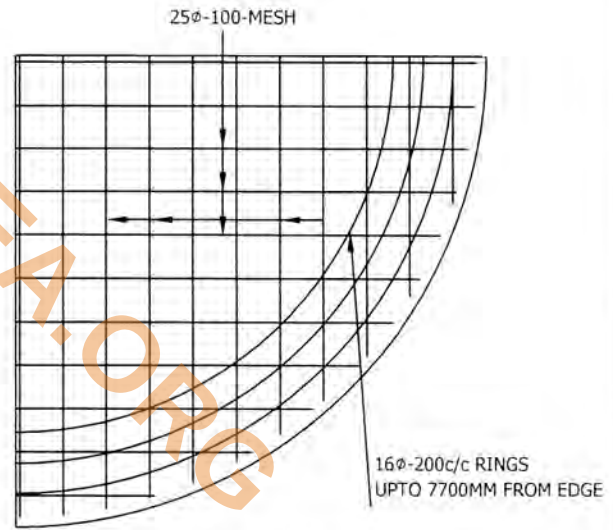
DRGNO:1



SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

1. GRADE OF CONCRETE : M30
2. GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 150KMPH
4. DEPTH OF FOUNDATION: 2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
5. ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-5 T/SQM

P.R.
Asst Executive Engineer

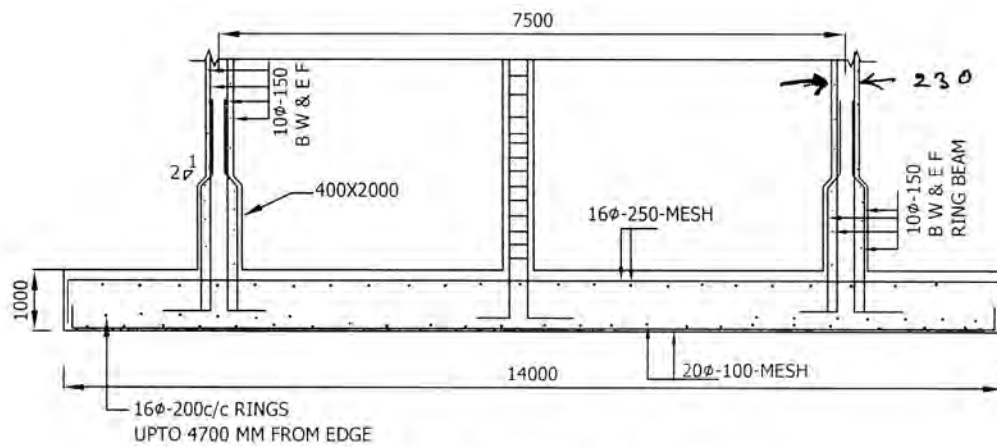
907/15.2.2014
Dy. Executive Engineer

Approved
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

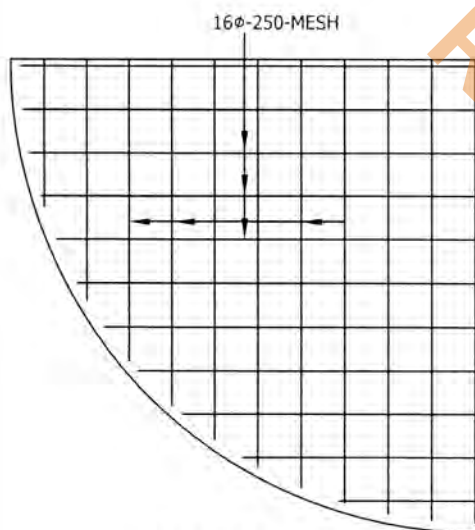
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250 K.L OHBR 30.00M STG.

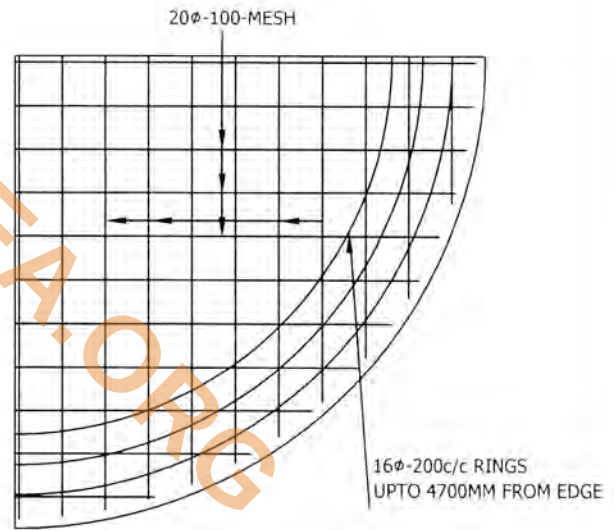
DRGNO:3



SECTIONAL ELEVATION



TOP REINFORCEMENT



BOTTOM REINFORCEMENT

NOTE:

1. GRADE OF CONCRETE : M30
2. GRADE OF STEEL : Fe415
3. BASIC WIND SPEED : 150KMPH
4. DEPTH OF FOUNDATION: 2.50m BELOW GROUND LEVEL UPTO TOP OF RAFT
5. ALL DIMENSIONS ARE IN "MM"
6. S B C OF SOILL-10 T/SQM

Asst Executive Engineer

Dy. Executive Engineer

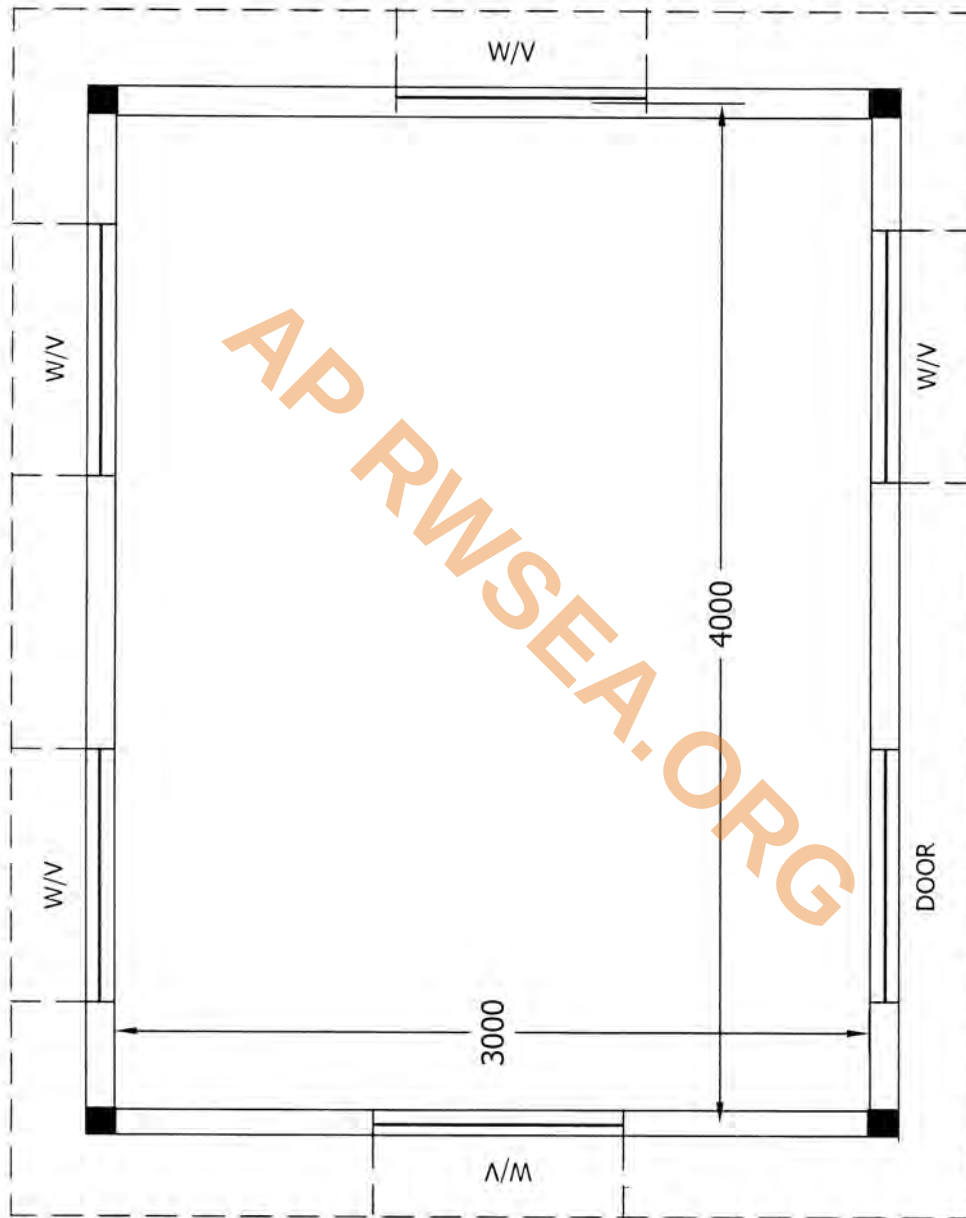
Approved//
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

SCHEME:

250 K.L OHBR 30.00M STG.

DRGNO:3

3.00 X 4.00 PUMPHOUSE

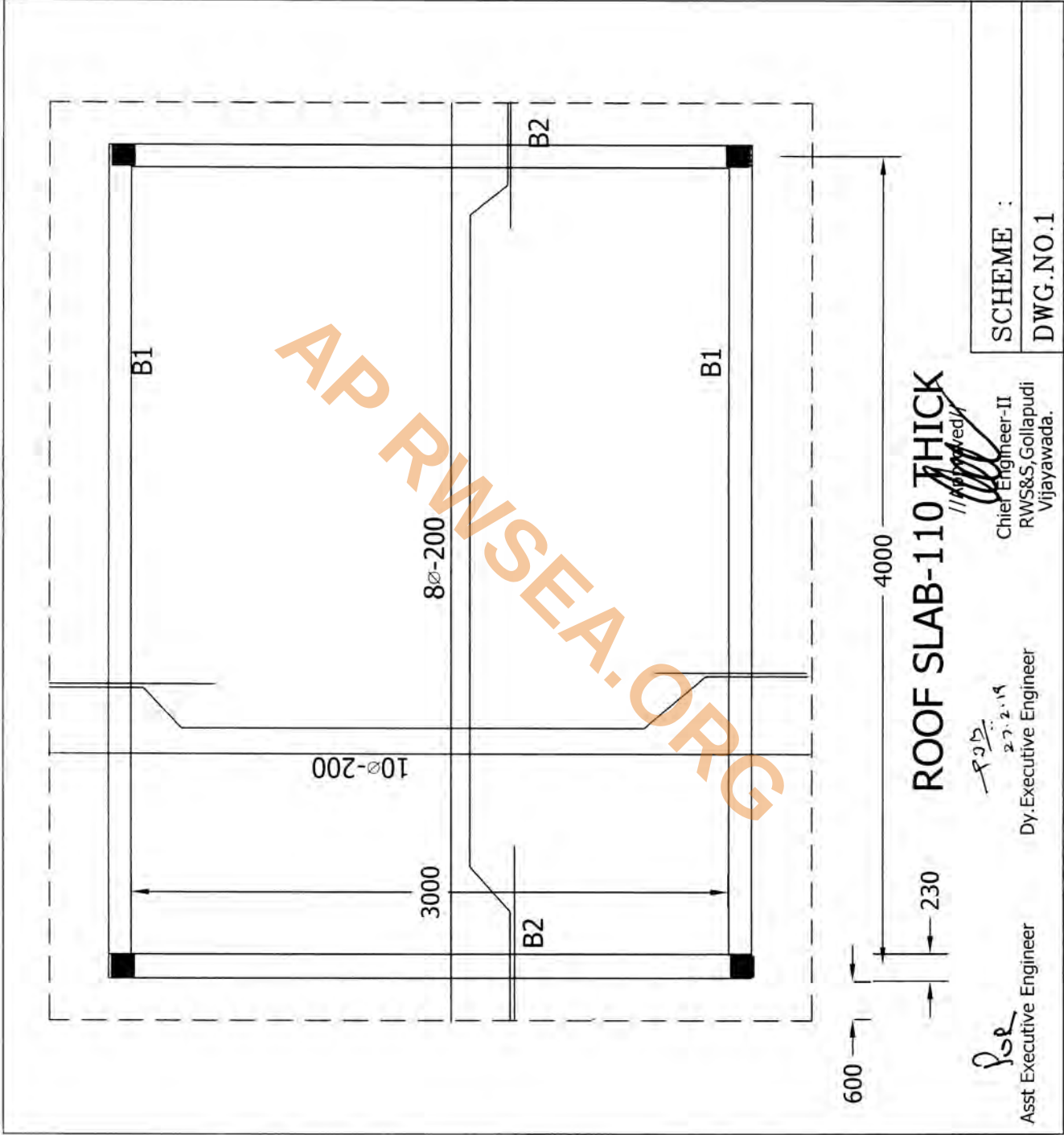


APPROVED
 CE-JI, KWS, VJA

27.2.19
 DEE

AEF

SCHEME :
 DWG.NO.1



PLINTH BEAM

2Y16
8Y-200STP
2Y16
PLINTH BEAM
(230x300)
SECTION-1-1

2Y16[⊕]
8[⊕] 200STP
2Y16[⊕]

PLINTH BEAM
(230x300)

SECTION-2-2

3Y12⁶⁰
 8⁶⁰-200STP
 LINEL LEVEL BEAM
 (230x300)

SECTION 1-1
(230x350)

SECTION 2-2
(230x350)

BEAM-B2 (230x350)

SECTION 1-1
(230x420)

SECTION 2-2
(230x420)

Note:- SBC of soil-10t/sqm

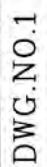
Dr
AEE

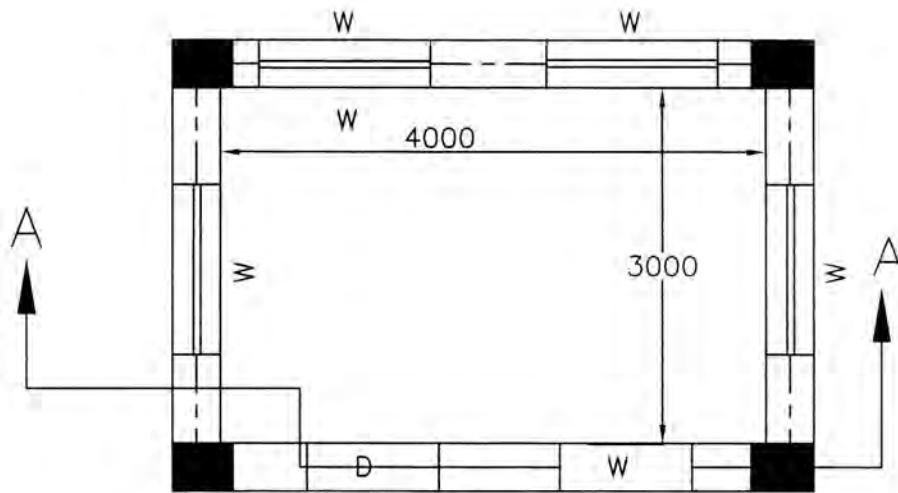
27.2.2019
975

11 APPENDED 11

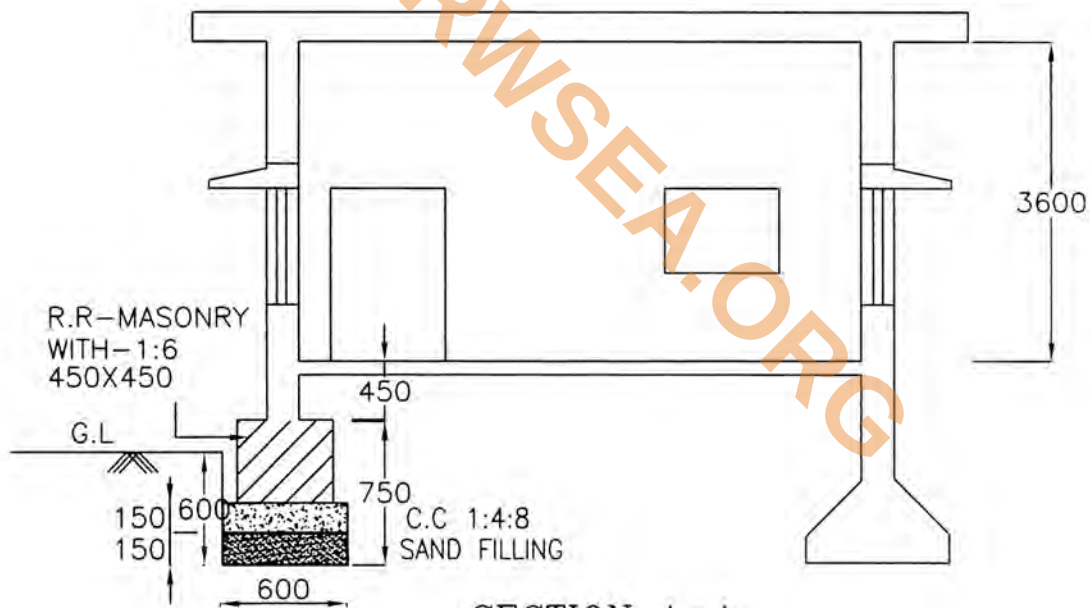
C.F. II, 1885, 17A

SCHEME :
DWG.NO.1





PLAN



SECTION A-A

PUMP HOUSE OF 3 m X 4 m SIZE

P.R.

Asst Executive Engineer

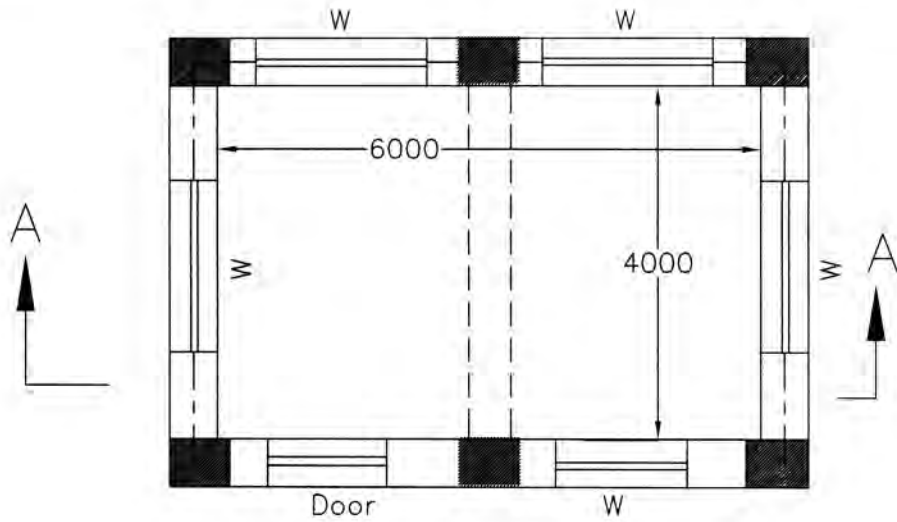
9/2/19
27.2.19

Dy. Executive Engineer

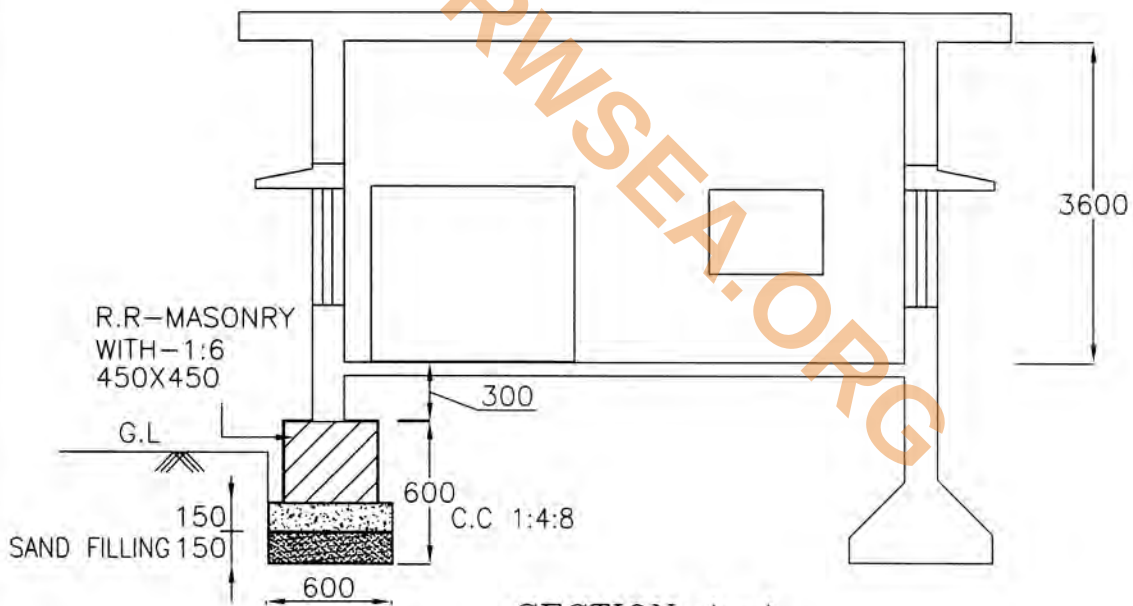
Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

SCHEME :

DWG.NO.1



PLAN



SECTION A-A

PUMP HOUSE OF 4 m X 6 m SIZE

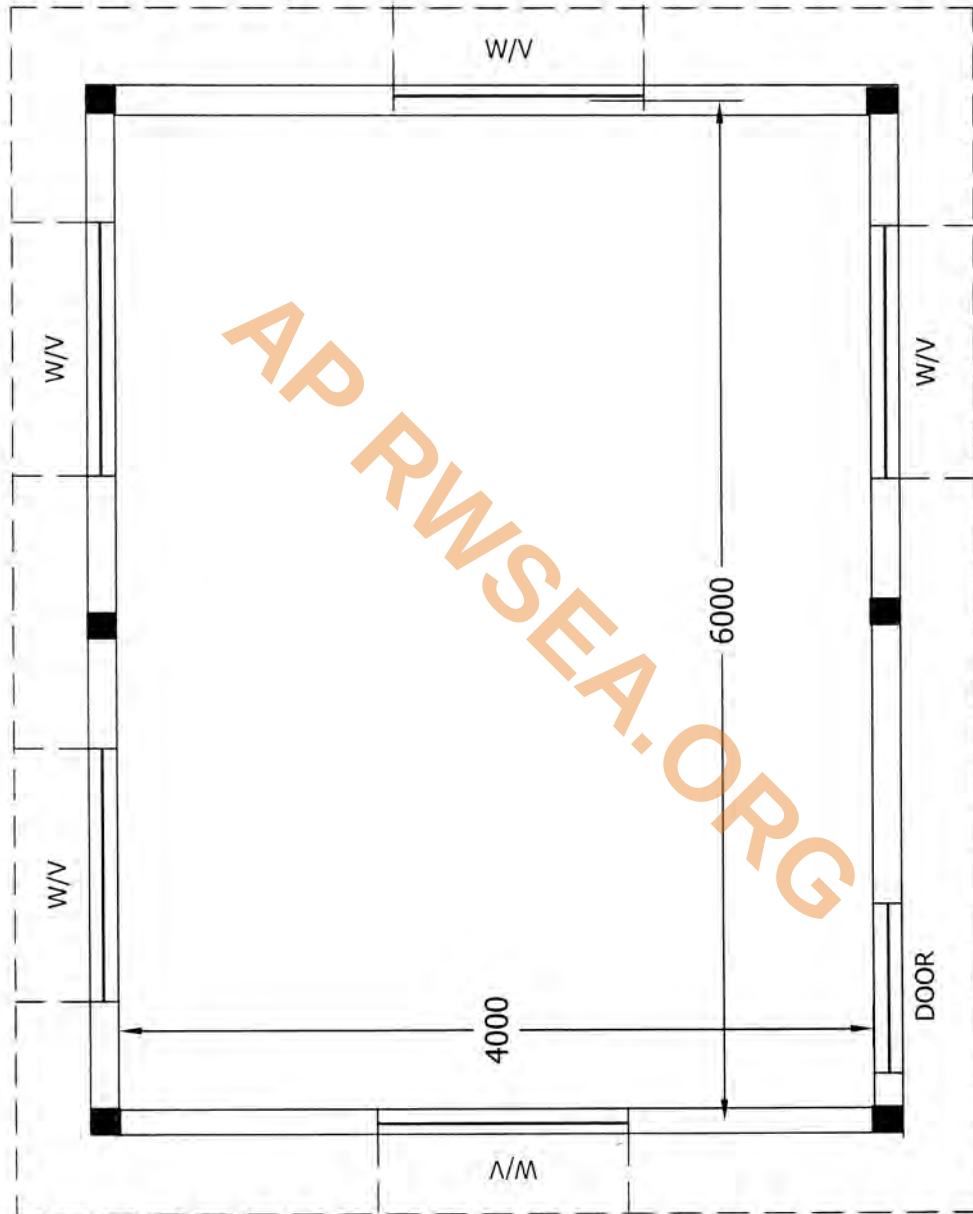
AE

27.2.2019
DEE

APPROVED
CE-II, RWS, VJA

SCHEME :
DWG.NO.1

6.00 X 4.00 PUMPHOUSE



//Approved//

27.2.2019

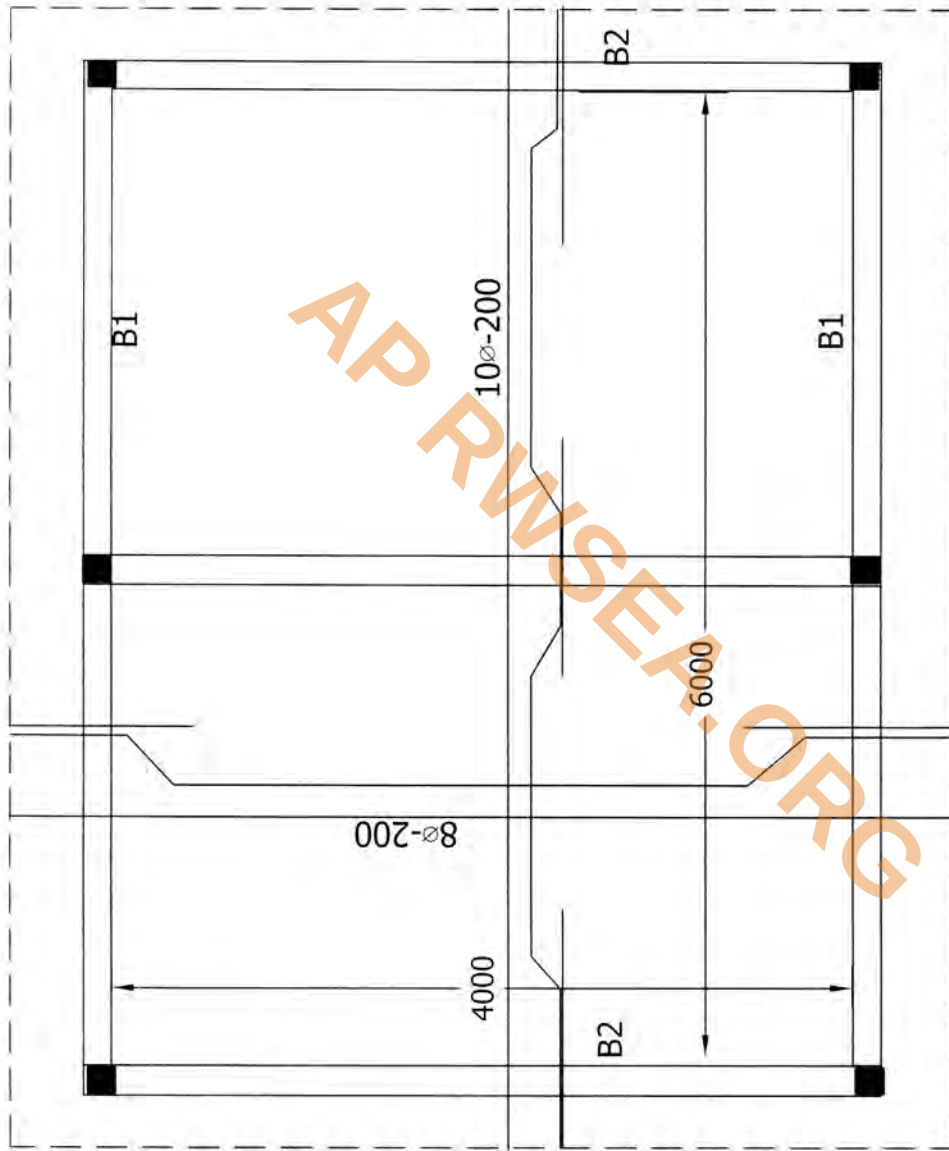
Dy. Executive Engineer

Pok

Asst Executive Engineer

Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

SCHEME :
DWG.NO.1



ROOF SLAB-110 THICK

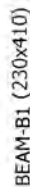
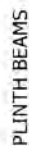
//Approved//

Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

27.2.2019
Dy. Executive Engineer

Asst Executive Engineer

SCHEME :
DWG.NO.1

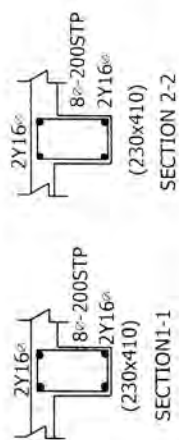


Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

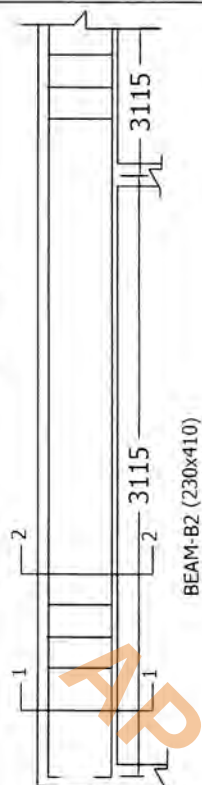
SCHEME 1:

DWG.NO.1

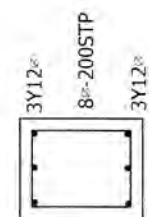
PLINTH BEAMS



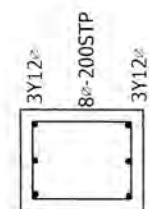
SECTION 1-1



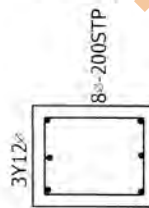
BEAM-B2 (230x410)



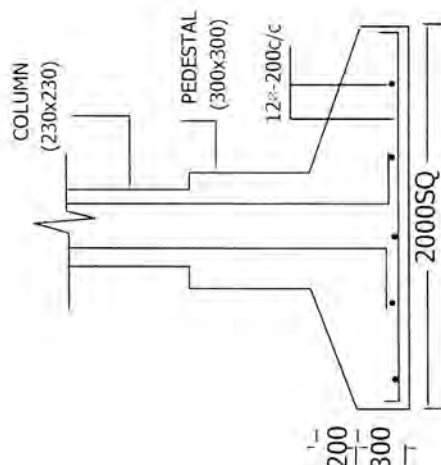
PLINTH BEAM
(230x300)
SECTION-2-2



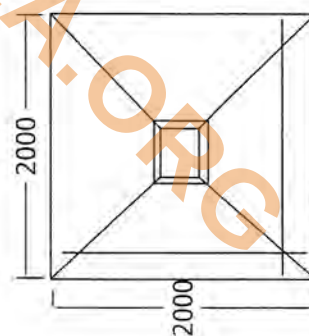
PLINTH BEAM
(230x300)
SECTION-1-1



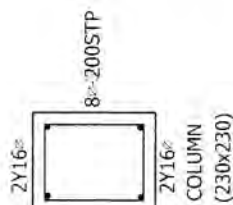
3Y12
INTEL LEVEL BEAM
(230x300)



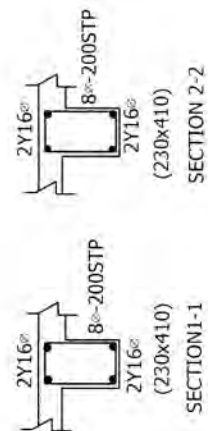
FOOTING



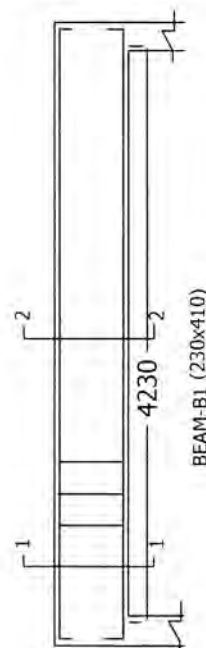
2000



COLUMN
(230x230)



SECTION 1-1



BEAM-B1 (230x410)

NOTE: SBC OF SOIL $\geq 5 \text{ T/SQM}$.

Asst Executive Engineer

Dy.Executive Engineer

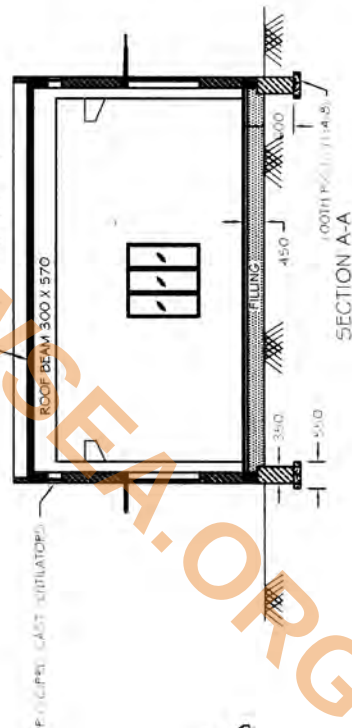
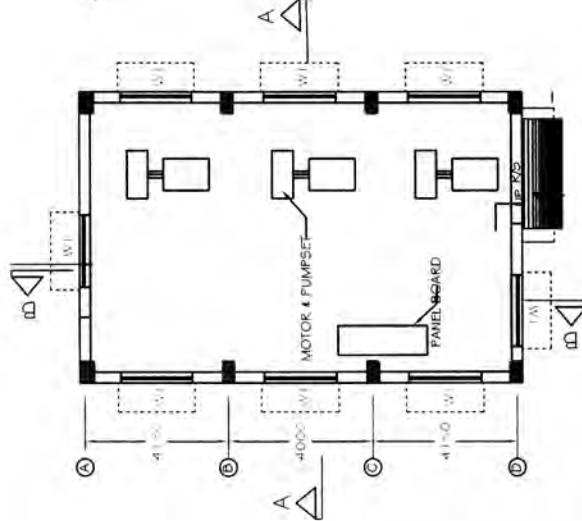
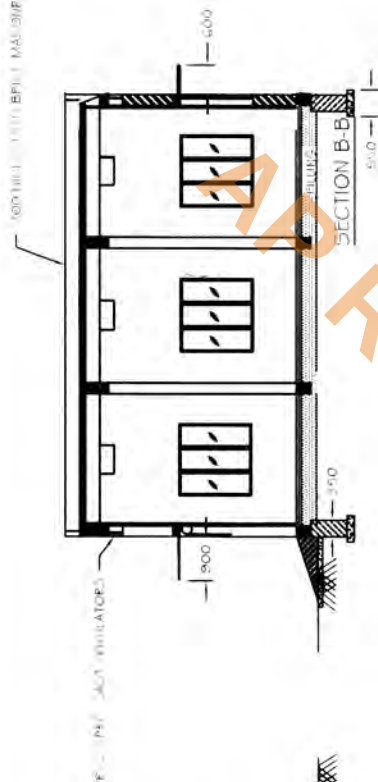
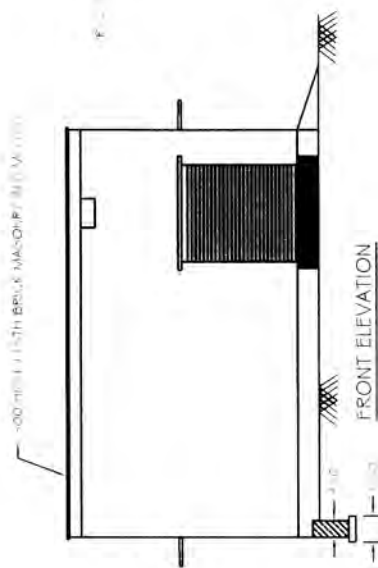
Approved//

Senior Engineer-II
RWS&S, Gollapudi
Vijayawada.

SCHEME :

DWG.NO.1

6 X 12 M PUMP HOUSE



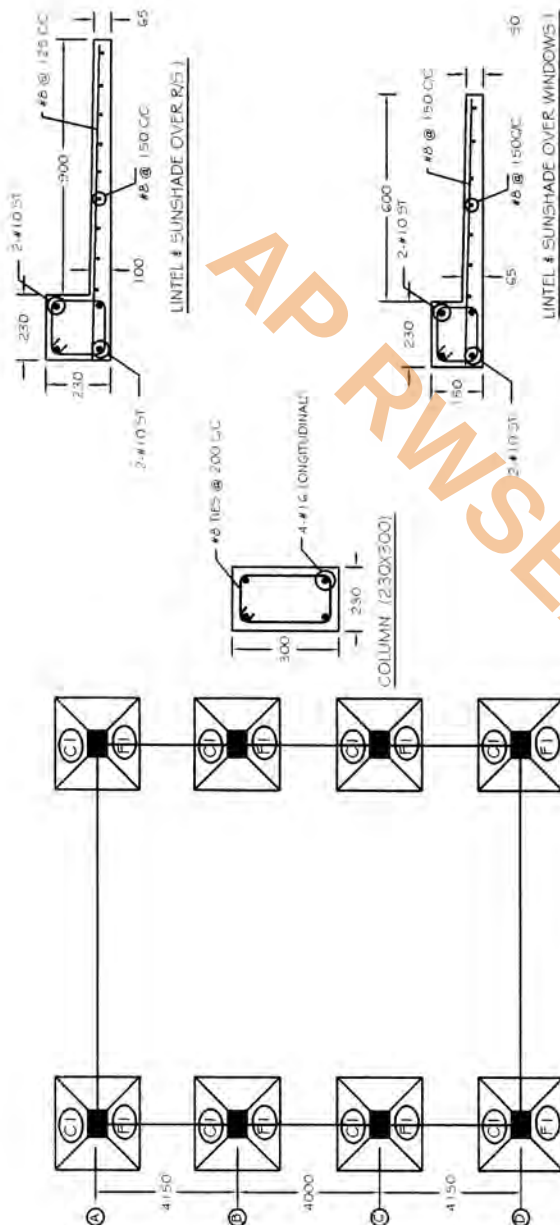
- (1) ALL DIMENSIONS ARE IN mm.
- (2) ALL LEVELS ARE IN METRS.
- (3) ALL P.C.C WORK IN MSO GRADE (DESIGN MIX).
- (4) REIN. ENFORCEMENT OF 15.5 D. BAR.
- (5) GRADE P.C.C 4.15.
- (6) FOOTINGS DESIGNED FOR A S.B.C. OF 5000 AND 10 T/SM.
- (7) P.C.C. BELOW FOOTINGS IN 2:4:1 (4.5).
- (8) BASEMENT WALL IN P.P. MASONRY (C.M. 1:4).
- (9) POINTED WITH C.M. (1:3).
- (10) 230 TH BRICK MACHERY WALL IN C.M. (1:4).
- (11) PARAPET 115 TH BRICK MACHERY WALL IN C.M. (1:4).
- (12) FLOORING: BLD. CONCRETE 100MM IN P.C.C. (1:3:6).
- (13) FINISHING: WITH 12MM TH. LEMBIT MORTAR IN C.M. (1:3).
- (14) PLASTERING: 12 TH IN C.M. (1:3) FOR EXTERIOR WALLS.
- (15) EXTERIOR WALLS: 20 TH IN C.M. (1:3) (POLICE FINISH).
- (16) CEILING: 12 TH IN C.M. (1:4).
- (17) PAINTING: EXTERIOR WALLS - O.B.D. IN 2 COATS OVER PRIMARY COAT. EXTERIOR WALLS - SHOW CEM. IN 2 COATS OVER PRIMARY COAT. CEILING - WHITE WASH WITH SUPACEM IN 2 COATS. WINDOWS & DOORS - SYNTHETIC RIAXI PAINT IN 2 COATS OVER PRIMARY COAT.
- (18) ROOF FINISHING: 20 TH IMPERVIOUS COAT IN C.M. (1:3).
- (19) POLING SHUTTERS: 2000 X 2400 (NO. 1).
- (20) STEEL GLAZED WINDOWS: 1500 X 1500 (10 NO.).
- (21) P.C.C. PRE CAST VENTILATORS: 600 X 100 (12 NO.).
- (22) 100 DIA P.V.C. WATER SPOUTS (AT 8 LOCATIONS).
- (23) CHAIN PULLEY BLOCK 3 TON CAPACITY - 1 NO.

NOTE:
PUMPSETS FOUNDATIONS SHALL BE PROVIDED AS PER RECOMMENDATIONS OF PUMPS MANUFACTURERS.

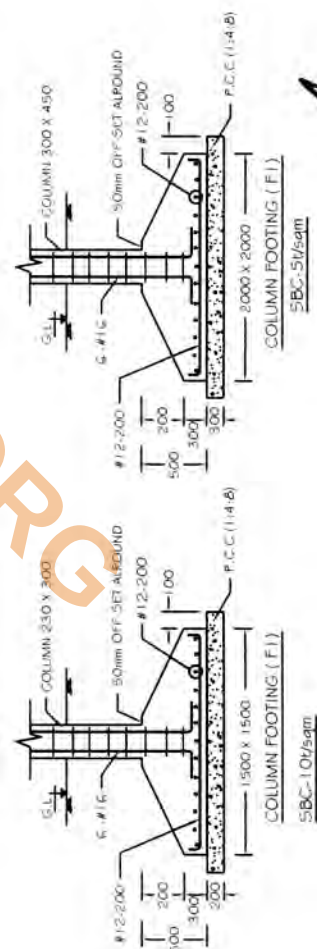
Chief Engineer,
RWCES, Golapada,
Vijayawada

27.2.19

Asst. Executive Engineer,
D. Irrigation Division



- NOTE
- 1) ALL DIMENSIONS ARE IN mm.
 - 2) ALL R.C.C. WORK IN M20 GRADE (DESIGN MIX).
 - 3) STEEL REINFORCEMENT OF RLY S.D. BARS.
 - 4) CLEAR COVER TO REINFORCEMENT:
 - a) FOOTING: 50mm to BOTTOM MOST REINFORCEMENT.
 - b) COLUMN: 40mm to TIES.
 - c) BEAMS: 25mm to STIRRUPS.
 - 5) LAP LENGTHS:
 - a) IN COMPRESSION - 45 DIA.
 - b) IN TENSION - 55 DIA.
 - 6) ALL LAPS SHOULD BE STAGGERED.
 - 7) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456-2000.



AP
RWSEA.ORG

AP
RWSEA.ORG

AP
RWSEA.ORG

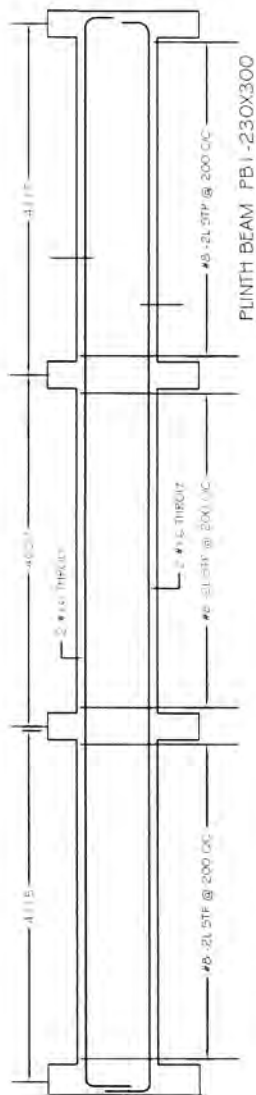
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RWSEA.ORG

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RWSEA.ORG

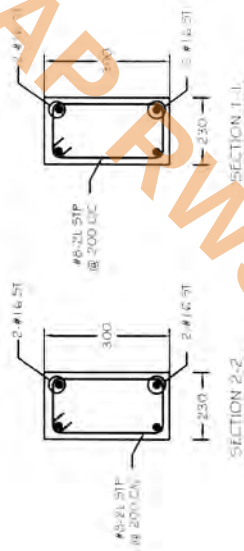
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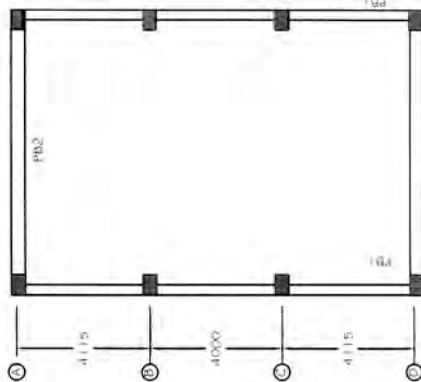
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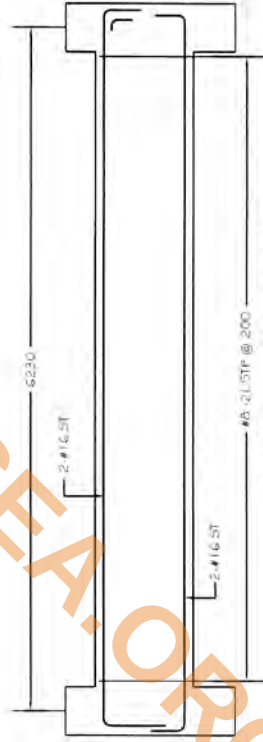
PLINTH BEAM PB1-230X300



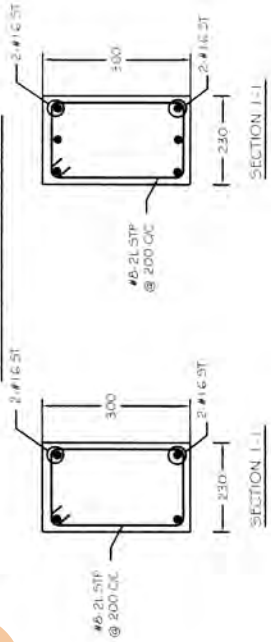
SECTION 2-2



PB2



PLINTH BEAM PB2-230X300



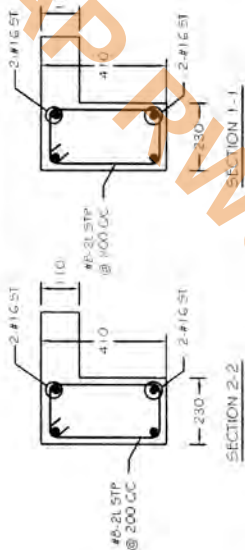
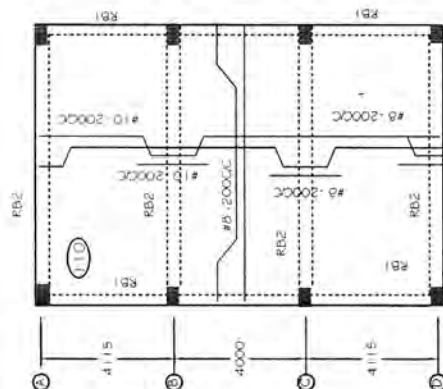
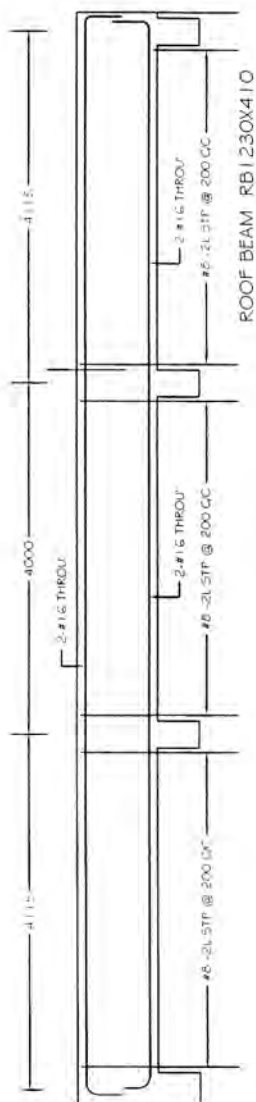
SECTION 1-1

- NOTE:
- 1) ALL DIMENSIONS ARE IN mm
 - 2) ALL R.C.C. WORK IN M20 GRADE (DESIGN MIX)
 - 3) STEEL REINFORCEMENT OF ALL S.D. BARS GRADE Fe 415
 - 4) CLEAR COVER TO REINFORCEMENT:
 - a) FOOTING : 50mm to BOTTOM MUST REINFORCEMENT
 - b) COLUMN : 40mm to TIES
 - c) BEAMS : 25mm to STIRRUPS
 - 5) LAP LENGTHS:
 - a) IN COMPRESSION : 48 DIA
 - b) IN TENSION : 36 DIA
 - 6) ALL LAPS SHOULD BE STAGGERED
 - 7) WORK SHOULD BE CARRIED OUT AS PER IS CODE 456-2000

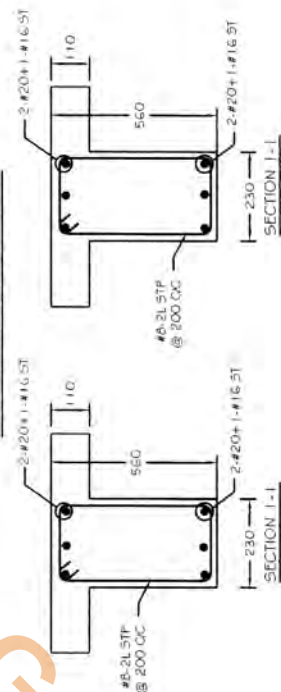
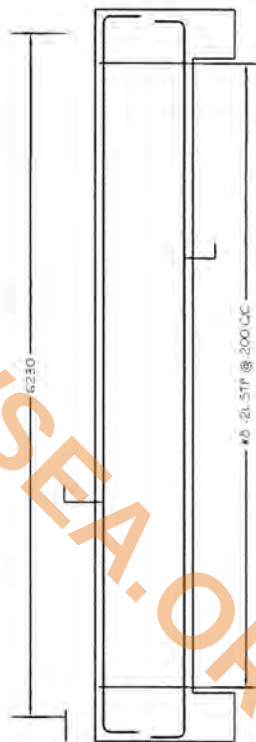
Engineer (H)
RVSAS, Gollapudi
Vijayawada

27.2.19
By Executive Engineer

Asst. Executive Engineer



- NOTE:
- 1) ALL DIMENSIONS ARE IN mm
 - 2) ALL R.C.C WORK IN K20 GRADE (DESIGN M20)
 - 3) STEEL REINFORCEMENT OF R.Y.S.D. BARS
 - 4) GRADE 16 IS USED FOR ALL REINFORCEMENT
 - 5) FOOTING - 50mm TO BOTTOM MOST REINFORCEMENT
 - 6) COLUMN - 40mm TO TIES
 - 7) BEAMS - 25mm TO STIRRUPS
 - 8) LAP LENGTHS:
 - a) IN COMPRESSION - 45 DIA.
 - b) IN TENSION - 55 DIA.
 - 9) ALL LAPS SHOULD BE STAGGERED.
 - 10) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456:2000.

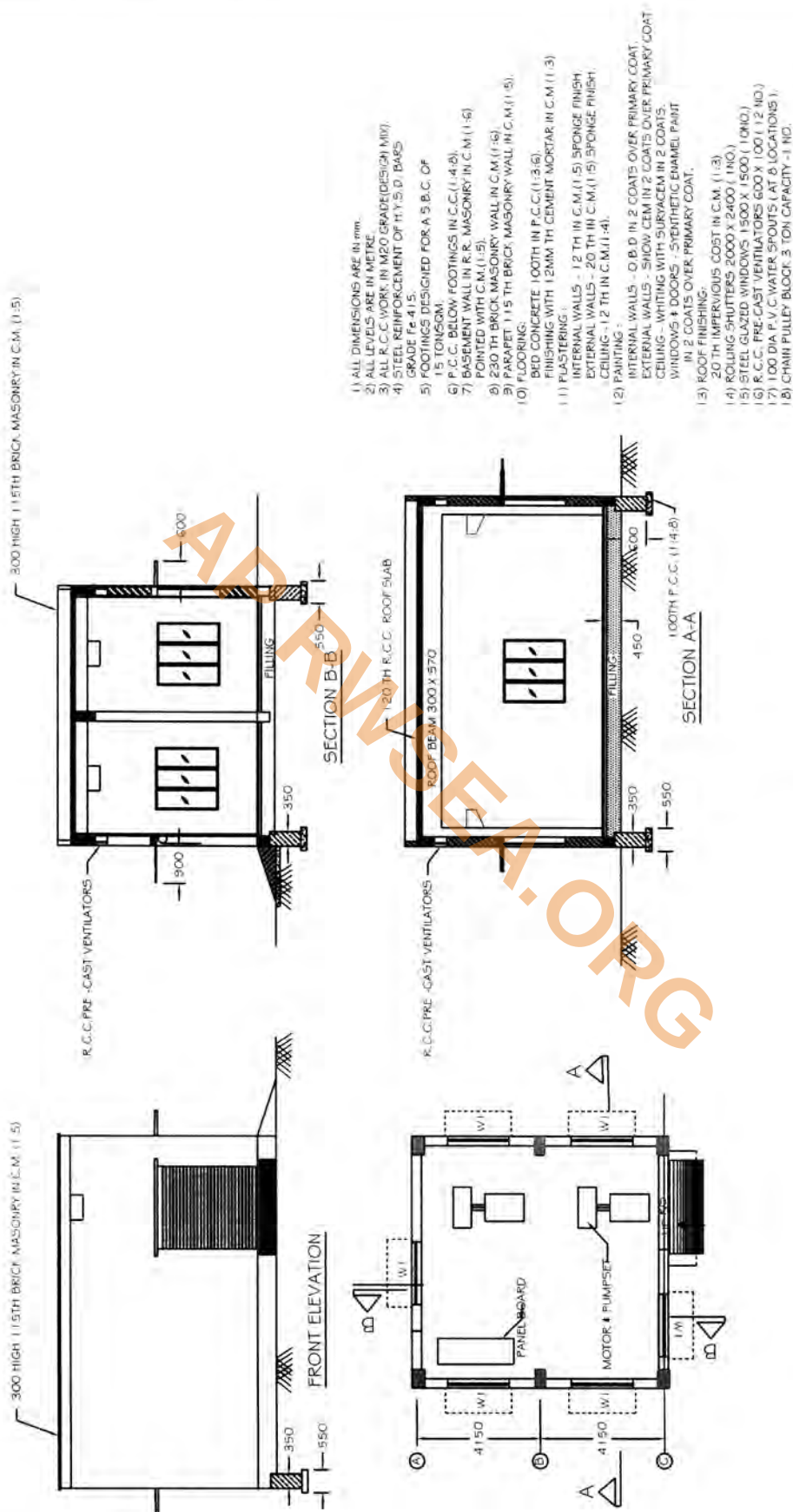


PROVIDED
 Engineer-III,
 RWSM, Gollapudi
 Vijayawada

27.2.11
 Dy. Executive Engineer

Asst. Executive Engineer

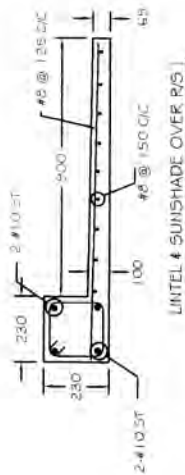
6 X 8 M PUMP HOUSE



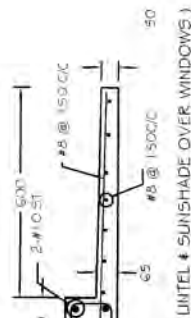
for
Asst. Executive Engineer

27.2.19
Dy. Executive Engineer

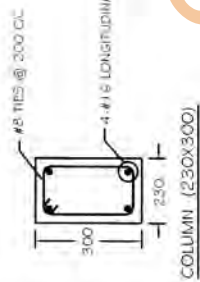
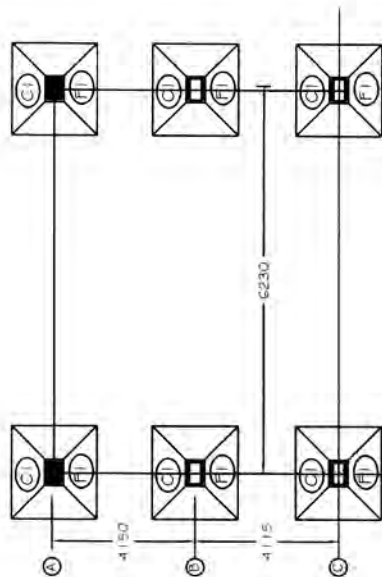
for
Asst. Engineer-II,
RUSTS, Gopalnagar
Vijayanagar



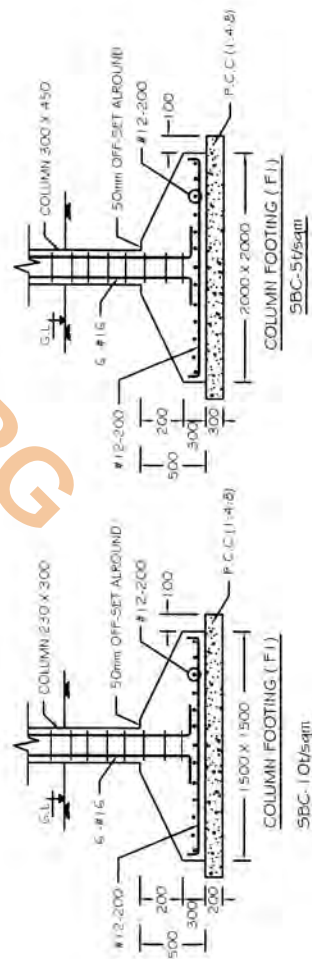
LINTEL & SUNSHADE OVER R/S



LINTEL & SUNSHADE OVER WINDOWS



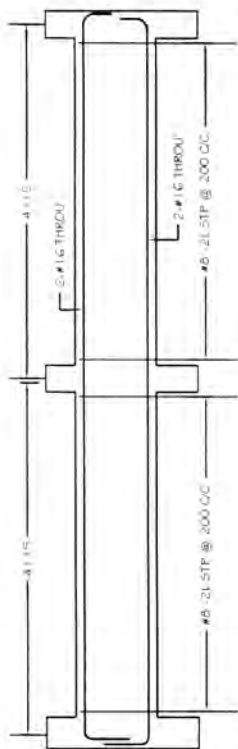
COLUMN (230X300)



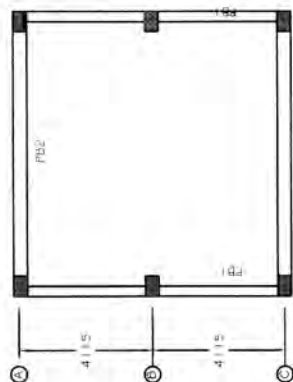
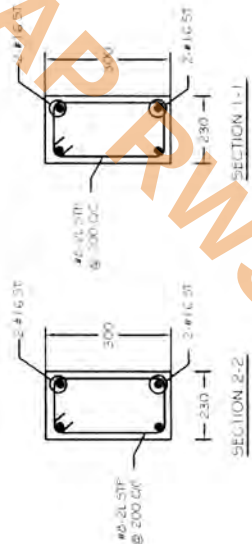
- NOTE
- 1) ALL DIMENSIONS ARE IN mm
 - 2) ALL P.C.C WORK IN M20 GRADE (DESIGN MIX)
 - 3) STEEL REINFORCEMENT OF HYSD BARS
 - 4) GRADE IS 415
 - 5) LAP LENGTHS:
 - a) IN COMPRESSION - 45 DIA
 - b) IN TENSION - 55 DIA
 - c) ALL LAPS SHOULD BE STAGGERED
 - d) WORK SHOULD BE CARRIED OUT AS PER IS CODE 456-2000.
 - 6) CLEAR COVER TO REINFORCEMENT:
 - a) FOOTING - 50mm to BOTTOM MOST REINFORCEMENT
 - b) COLUMN - 40mm to TIE
 - c) BEAMS - 25mm to STIRRUPS

Engineer-II
RWS&S, Gollapudi
Vijayawada

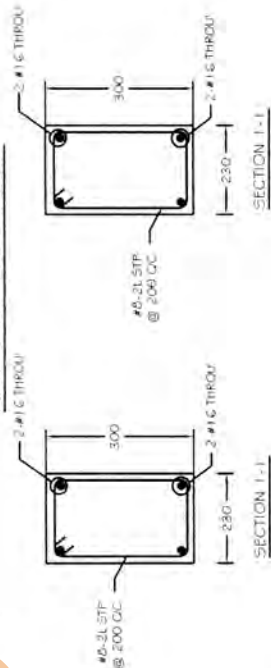
Asst. Executive Engineer
Dy. Executive Engineer



PLINTH BEAM PB1 230X300



PLINTH BEAM PB2 230X300

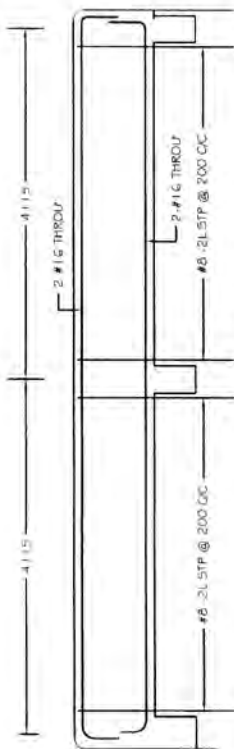


NOTE:
 1) ALL DIMENSIONS ARE IN MM.
 2) ALL R.C.C. WORK IN M30 GRADE (DESIGN M30).
 3) STEEL REINFORCEMENT OF H.V.S.D. BARS
 GRADE Fe 415.
 4) CLEAR COVER TO REINFORCEMENT:
 a) FOOTING : 50mm to BOTTOM MOST
 REINFORCEMENT
 b) COLUMN : 40mm to TIES.
 c) BEAMS : 25mm to STIRRUPE.
 5) LAP LENGTHS:
 a) IN COMPRESSION : 45 DIA.
 b) IN TENSION : 135 DIA.
 c) ALL LAPS SHOULD BE STAGGERED
 d) WORK SHOULD BE CARRIED OUT AS PER
 I.S. CODE 456:2000.

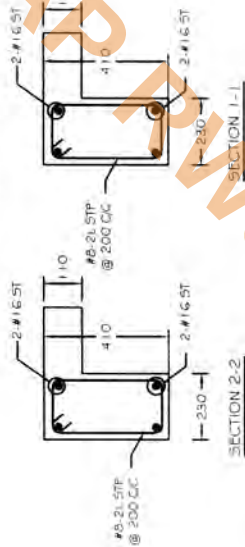
Vipavada
 Dy. Executive Engineer

27.2.19
 Dy. Executive Engineer

Asst. Executive Engineer



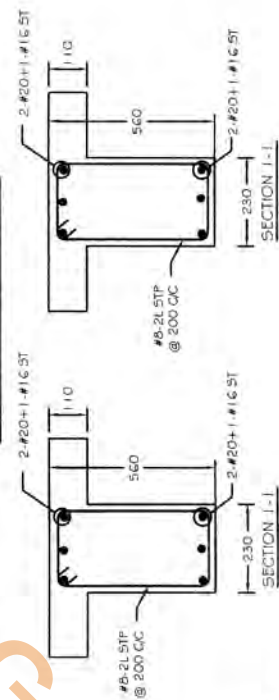
ROOF BEAM RB1230X410



NOTE:

- 1) ALL DIMENSIONS ARE IN mm.
- 2) ALL R.C.C WORK IN M20 GRADE (DESIGN MIX).
- 3) STEEL REINFORCEMENT OF HYSD BARS GRADE Fe 415.
- 4) CLEARANCE FROM TO REINFORCEMENT:
 - a) COLUMN : 50mm to BOTTOM MOST REINFORCEMENT
 - b) COLUMN : 40mm to TIES
 - c) BEAMS : 25mm to STIRRUPS
- 5) LAP LENGTHS:
 - a) IN COMPRESSION : 45 DIA.
 - b) IN TENSION : 55 DIA.
 - c) ALL LAPS SHOULD BE STAGGERED.
- 6) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456-2000.

ROOF BEAM RB2 300 X560

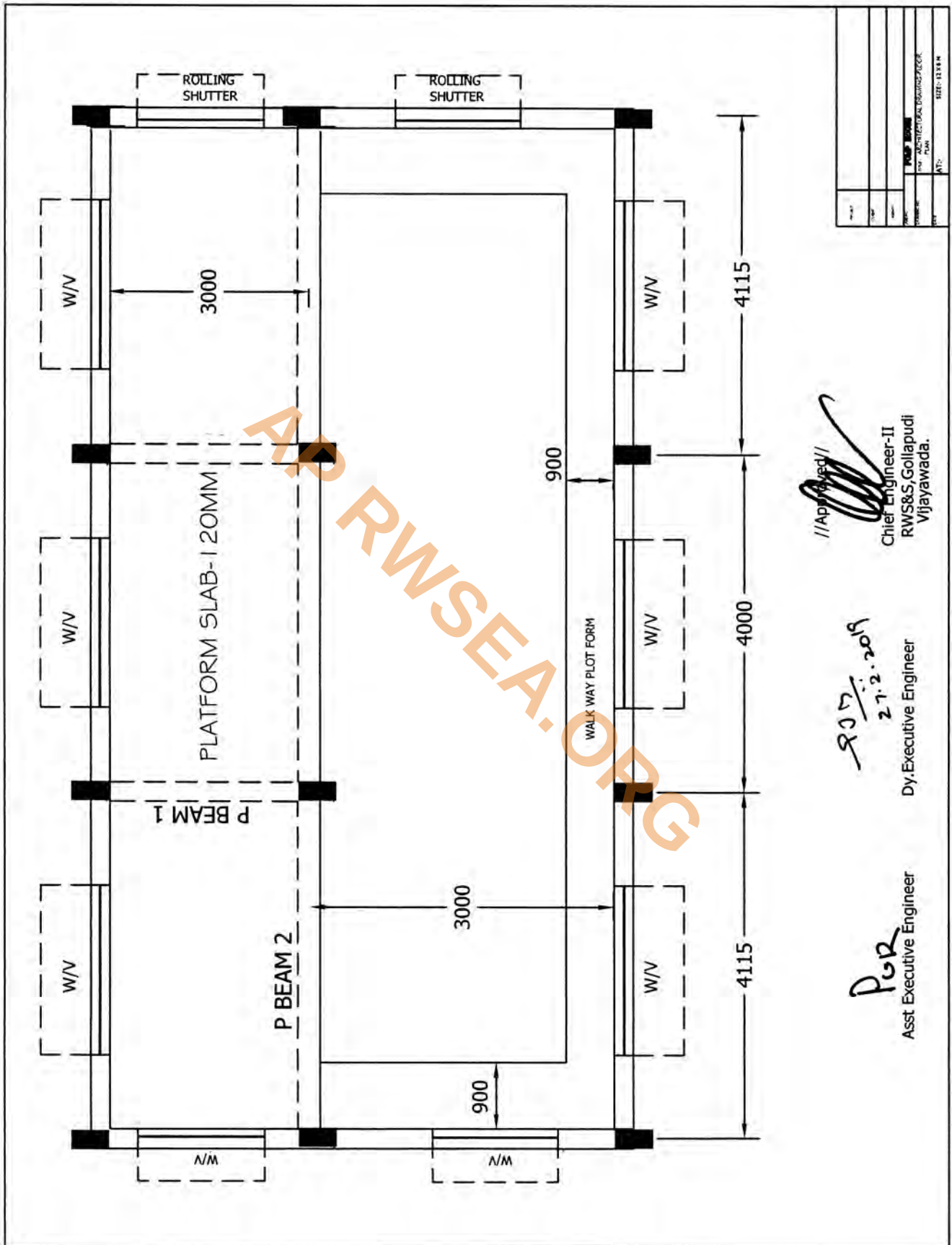


Chief Engineer-II,
RVVCL, Kumbhariya
(Vijaywada)

27.2.19

Asst. Executive Engineer

Dy. Executive Engineer

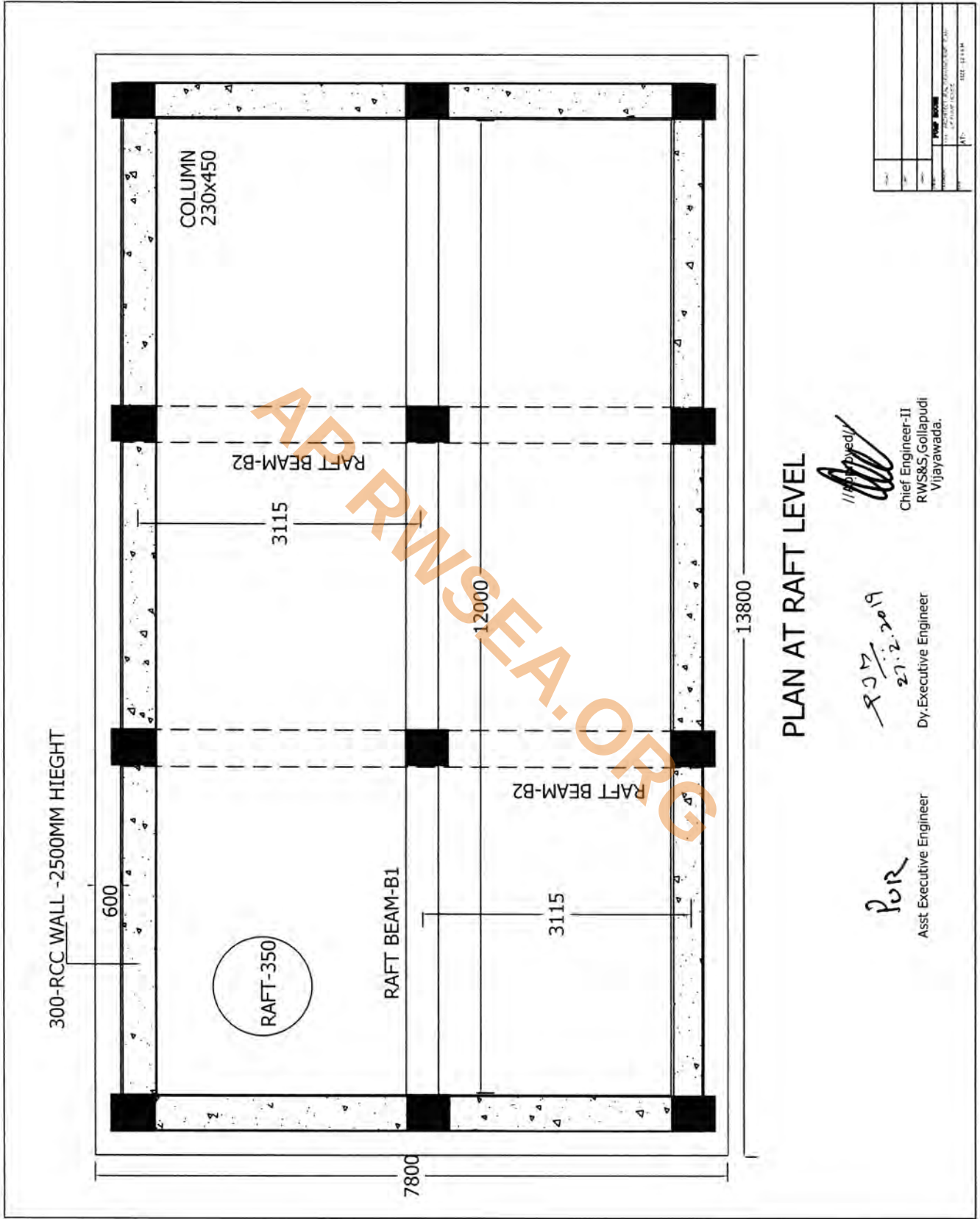


DATE	
SCALE	
PROJECT	
CLIENT	
DESIGNER	
CHECKER	
APPROVED	
DATE	
BY	
FOR	
SIZE	12.5 x 6.5

//Approved//
 Chief Engineer-II
 RWS&S, Gollapudi
 Vijayawada.

20/12/2019
 27.2.2019
 Dy. Executive Engineer

PUR
 Asst Executive Engineer

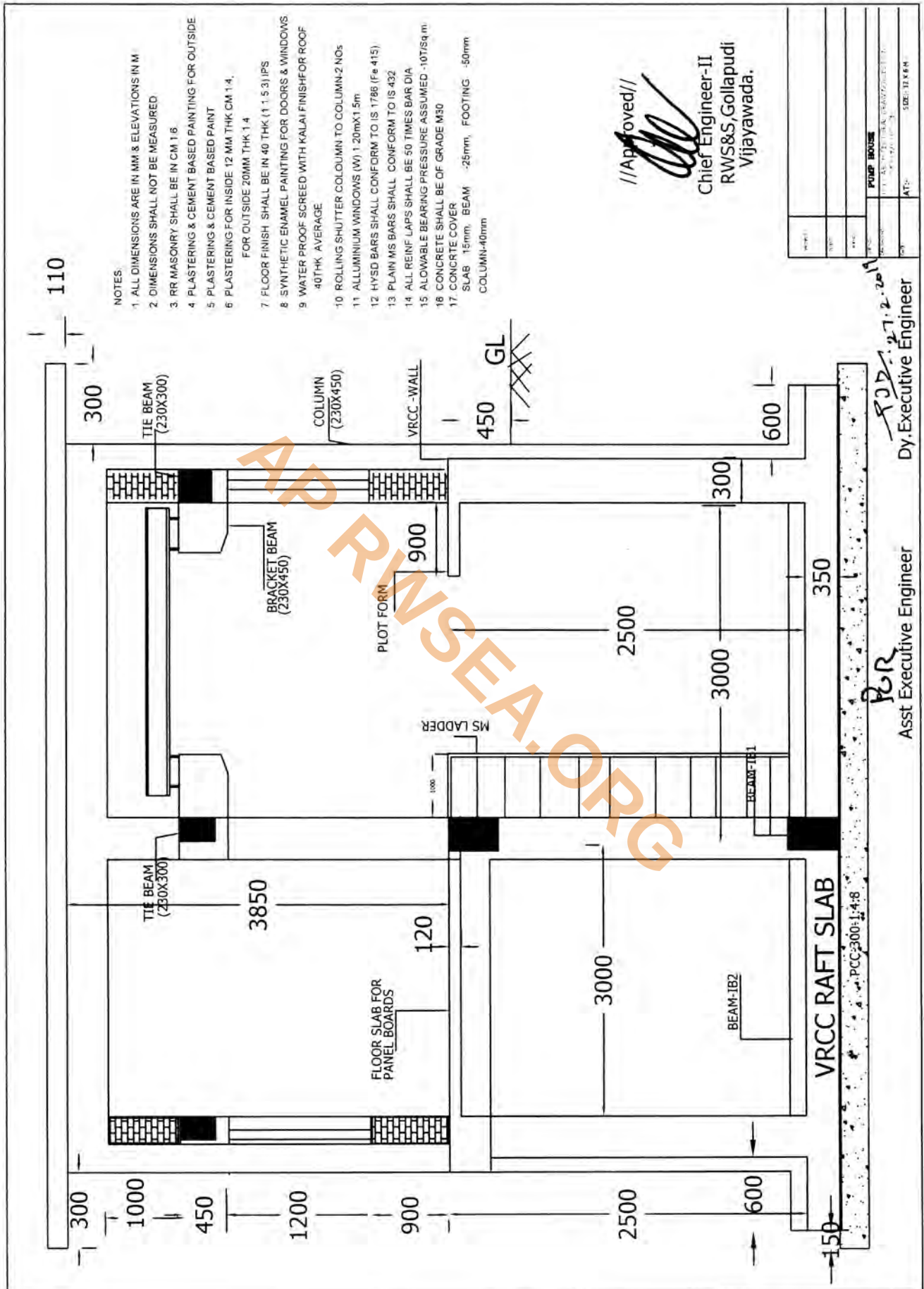


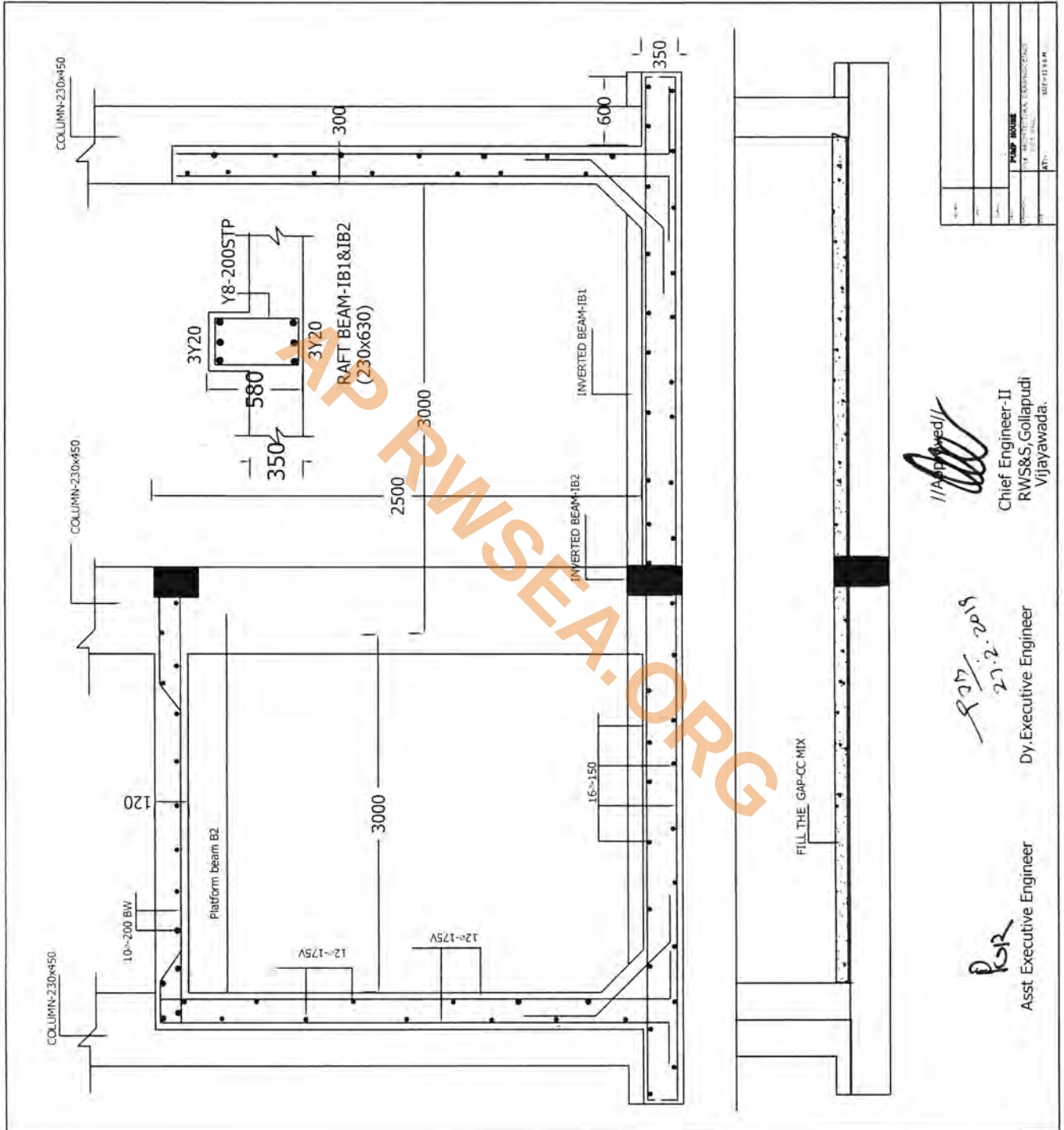
DATE	27.2.2019
PROJECT	RAFT-350
DESIGNER	Chief Engineer-II
CHECKER	RWS&S, Gollapudi
APPROVED	Vijayawada
SCALE	1:100

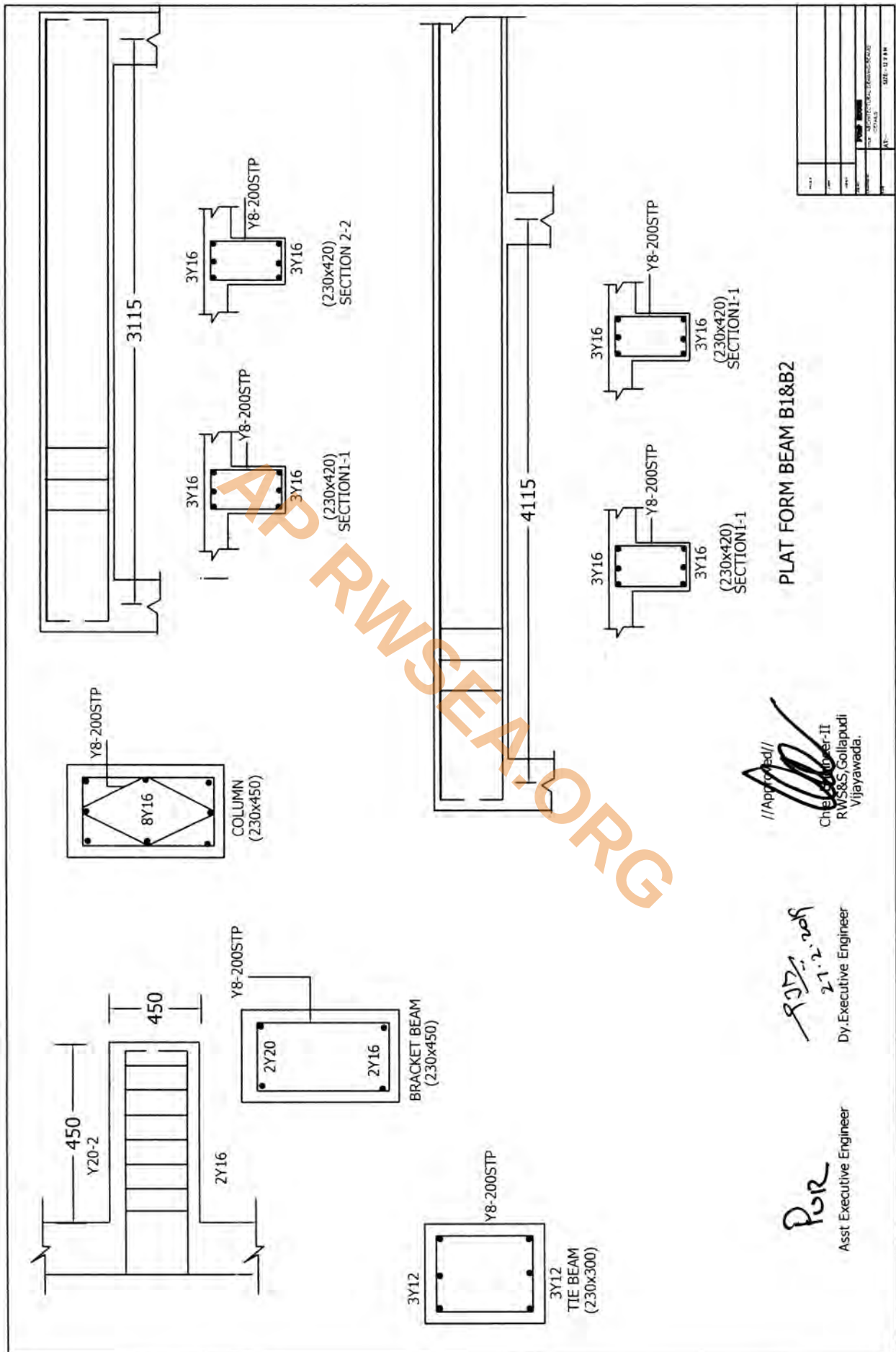
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Chief Engineer-II
RWS&S, Gollapudi
Vijayawada

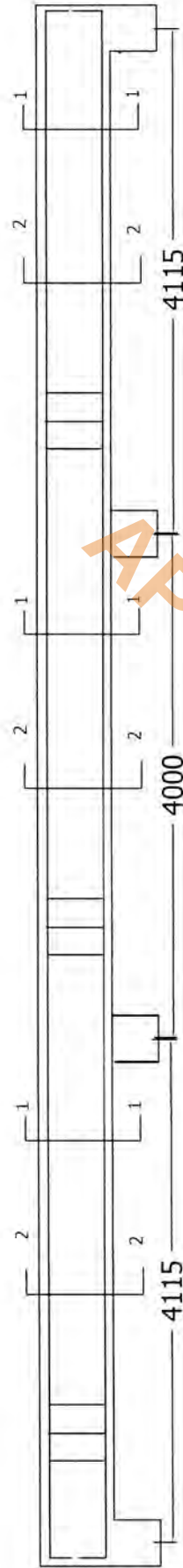
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27.2.2019
Dy. Executive Engineer

[Signature]
Asst Executive Engineer

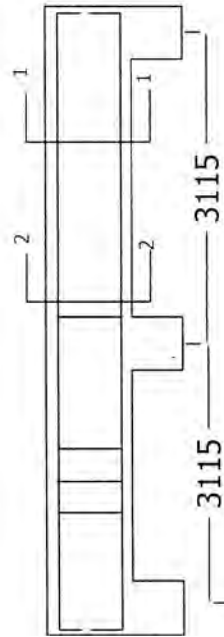




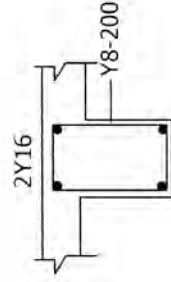




BEAM-RB2 (230x410)

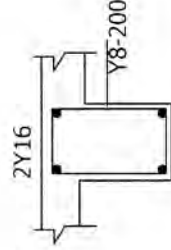


BEAM-RB1 (230x410)



SECTION I-I

(230x410)



SECTION I-I

(230x410)

ROOF BEAMS -B2

//Approved//

27.2.2019

Chief Engineer-II
RWS&S Gollapudi
Vijayawada.

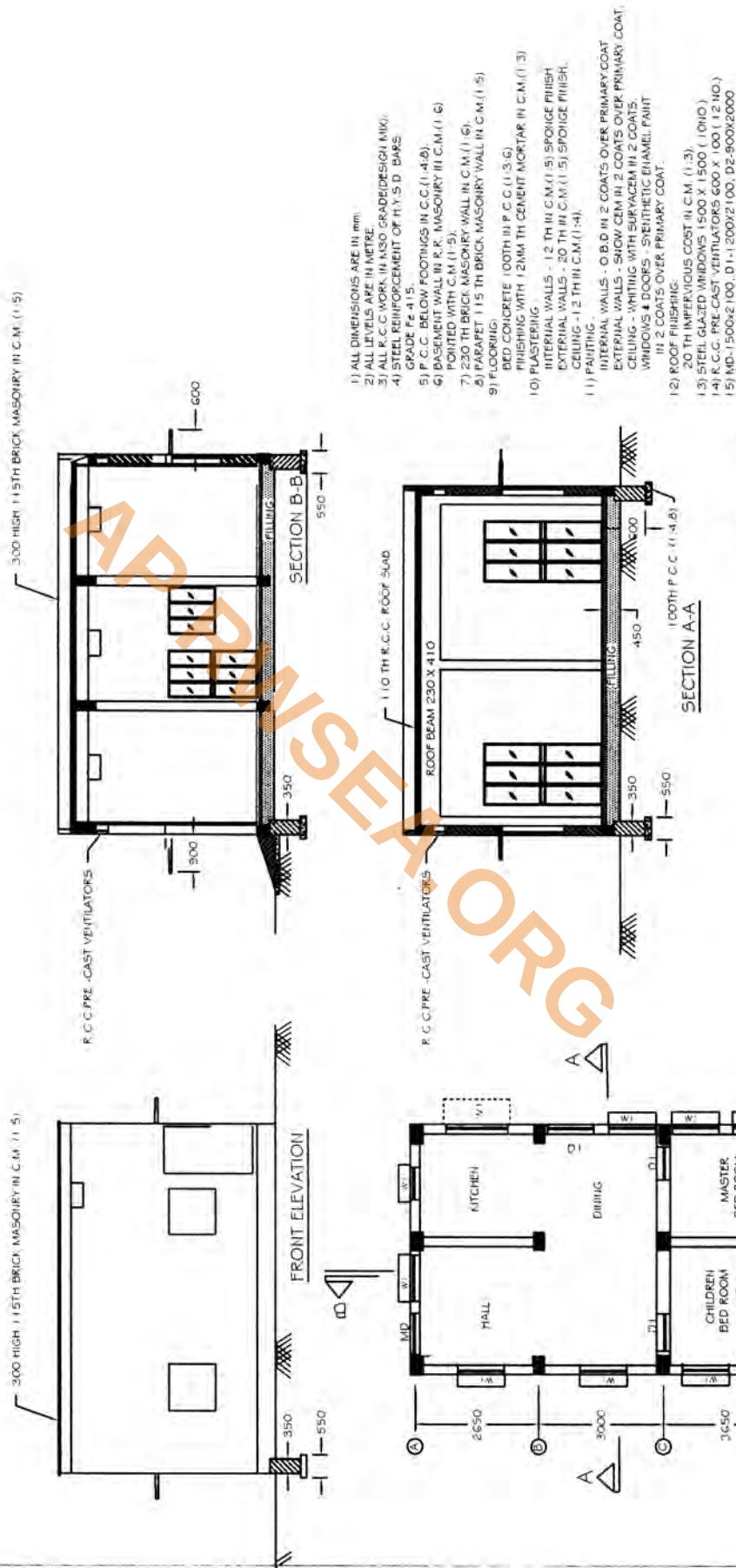
Dy.Executive Engineer

Asst Executive Engineer

R.R

NO.	REVISION
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WATCHMAN/STAFF QUARTER OF SIZE-9.0 M X 6.0M



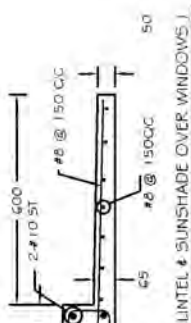
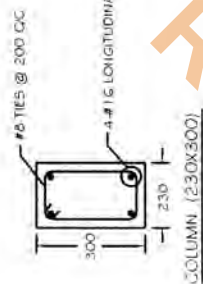
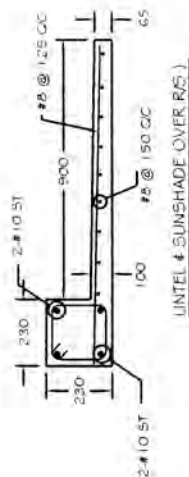
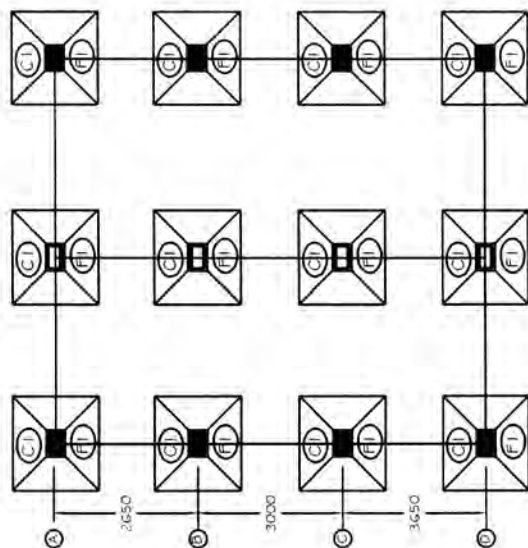
//Approved//

Chaitanya Engineer-11
RWS#5, Gollapudi
Vijayawada.

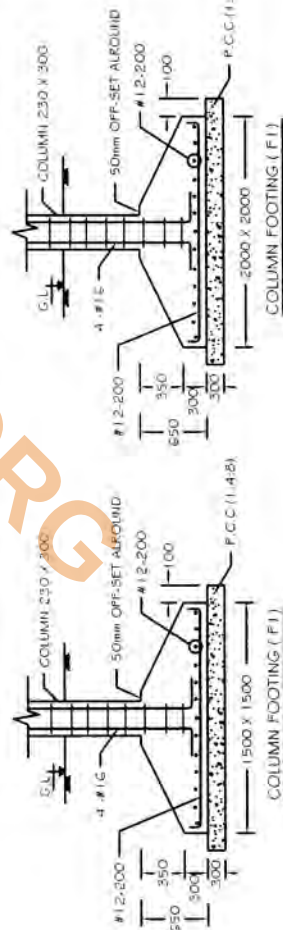
61.3.19
JCB

Dy.Executive Engineer

Asst Executive Engineer



- NOTE
- 1) ALL DIMENSIONS ARE IN mm
 - 2) ALL P.C.C. WORK IN 1:2:4 RATIO (DESIGN MVA).
 - 3) STEEL REINFORCEMENT OF R15 D. BARS.
 - 4) CLEAR COVER TO REINFORCEMENT.
 - a) FOOTING - 50mm to BOTTOM MOST REINFORCEMENT.
 - b) COLUMN - 40mm to TIES.
 - c) BEAMS - 25mm to STIFFENERS.
 - 5) LAP LENGTHS.
 - a) IN COMPRESSION - 45 DIA.
 - b) IN TENSION - 55 DIA.
 - 6) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456-2000.
 - 7) SBC OF THE SOIL-100 TNSQM.



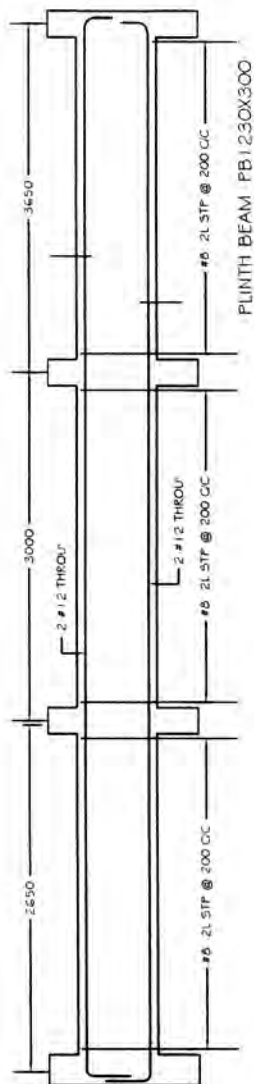
//Approved//

Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

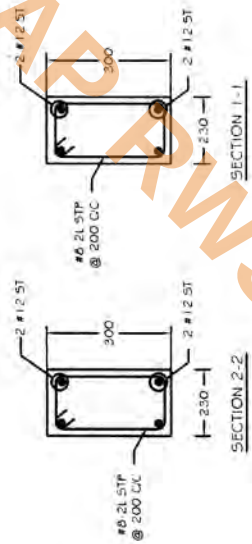
27.2.19

Dy. Executive Engineer

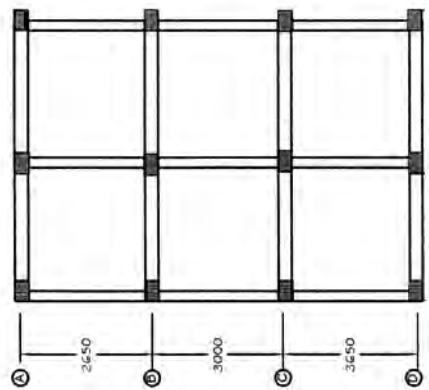
Asst Executive Engineer



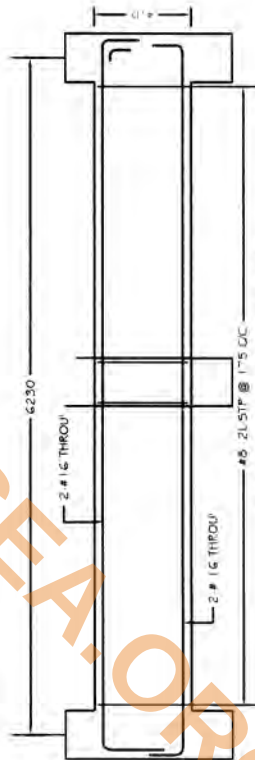
PLINTH BEAM PB1 230X300



SECTION 2-2



SECTION 1-1



PLINTH BEAM PB2 230X300



SECTION 1-1

SECTION 1-1

- NOTE
- 1) ALL DIMENSIONS ARE IN mm.
 - 2) ALL R.C.C. WORK IN 1:2:4 GRADE DESIGN MIX.
 - 3) STEEL REINFORCEMENT OF HYSD BARS GRADE Fe 415.
 - 4) CLEAR COVER TO REINFORCEMENT:
 - a) FOOTING : 50mm to BOTTOM MOST REINFORCEMENT.
 - b) COLUMN : 40mm to TIES.
 - c) BEAMS : 25mm to STIRRUPS.
 - 5) LAP LENGTHS:
 - a) IN COMPRESSION : 45 DIA.
 - b) IN TENSION : 55 DIA.
 - 6) ALL WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456:2000.

Approved//

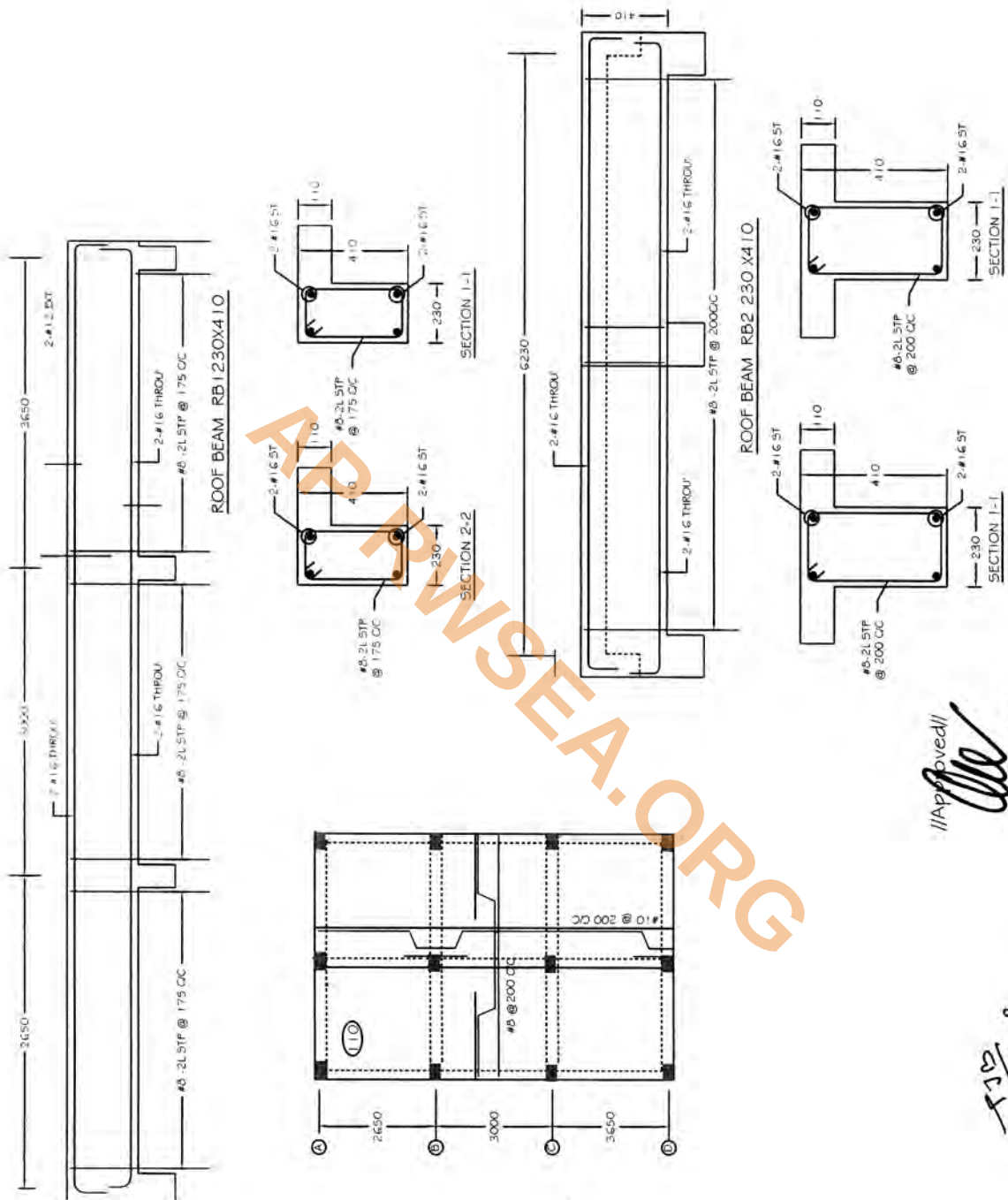
Engineer-II

RWS&S, Gollapudi
Vijayawada.

27.2.17

Dy. Executive Engineer

Asst Executive Engineer



//Approved//

Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

27.12.19

Dy. Executive Engineer

Asst Executive Engineer

[illegible]

- 1) ALL DIMENSIONS ARE IN mm.
- 2) ALL CEILING ARE 1 METRE
- 3) ALL R.C. WORK IN 1500 GRADE (F5/28/M30)
- 4) STEEL REINFORCEMENT OF 11.5, 5, 2, 8, 10, 16, 20, 25, 32, 40, 50, 60, 75, 85, 95, 105, 115, 125, 135, 145, 155, 165, 175, 185, 195, 205, 215, 225, 235, 245, 255, 265, 275, 285, 295, 305, 315, 325, 335, 345, 355, 365, 375, 385, 395, 405, 415, 425, 435, 445, 455, 465, 475, 485, 495, 505, 515, 525, 535, 545, 555, 565, 575, 585, 595, 605, 615, 625, 635, 645, 655, 665, 675, 685, 695, 705, 715, 725, 735, 745, 755, 765, 775, 785, 795, 805, 815, 825, 835, 845, 855, 865, 875, 885, 895, 905, 915, 925, 935, 945, 955, 965, 975, 985, 995, 1005, 1015, 1025, 1035, 1045, 1055, 1065, 1075, 1085, 1095, 1105, 1115, 1125, 1135, 1145, 1155, 1165, 1175, 1185, 1195, 1205, 1215, 1225, 1235, 1245, 1255, 1265, 1275, 1285, 1295, 1305, 1315, 1325, 1335, 1345, 1355, 1365, 1375, 1385, 1395, 1405, 1415, 1425, 1435, 1445, 1455, 1465, 1475, 1485, 1495, 1505, 1515, 1525, 1535, 1545, 1555, 1565, 1575, 1585, 1595, 1605, 1615, 1625, 1635, 1645, 1655, 1665, 1675, 1685, 1695, 1705, 1715, 1725, 1735, 1745, 1755, 1765, 1775, 1785, 1795, 1805, 1815, 1825, 1835, 1845, 1855, 1865, 1875, 1885, 1895, 1905, 1915, 1925, 1935, 1945, 1955, 1965, 1975, 1985, 1995, 2005, 2015, 2025, 2035, 2045, 2055, 2065, 2075, 2085, 2095, 2105, 2115, 2125, 2135, 2145, 2155, 2165, 2175, 2185, 2195, 2205, 2215, 2225, 2235, 2245, 2255, 2265, 2275, 2285, 2295, 2305, 2315, 2325, 2335, 2345, 2355, 2365, 2375, 2385, 2395, 2405, 2415, 2425, 2435, 2445, 2455, 2465, 2475, 2485, 2495, 2505, 2515, 2525, 2535, 2545, 2555, 2565, 2575, 2585, 2595, 2605, 2615, 2625, 2635, 2645, 2655, 2665, 2675, 2685, 2695, 2705, 2715, 2725, 2735, 2745, 2755, 2765, 2775, 2785, 2795, 2805, 2815, 2825, 2835, 2845, 2855, 2865, 2875, 2885, 2895, 2905, 2915, 2925, 2935, 2945, 2955, 2965, 2975, 2985, 2995, 3005, 3015, 3025, 3035, 3045, 3055, 3065, 3075, 3085, 3095, 3105, 3115, 3125, 3135, 3145, 3155, 3165, 3175, 3185, 3195, 3205, 3215, 3225, 3235, 3245, 3255, 3265, 3275, 3285, 3295, 3305, 3315, 3325, 3335, 3345, 3355, 3365, 3375, 3385, 3395, 3405, 3415, 3425, 3435, 3445, 3455, 3465, 3475, 3485, 3495, 3505, 3515, 3525, 3535, 3545, 3555, 3565, 3575, 3585, 3595, 3605, 3615, 3625, 3635, 3645, 3655, 3665, 3675, 3685, 3695, 3705, 3715, 3725, 3735, 3745, 3755, 3765, 3775, 3785, 3795, 3805, 3815, 3825, 3835, 3845, 3855, 3865, 3875, 3885, 3895, 3905, 3915, 3925, 3935, 3945, 3955, 3965, 3975, 3985, 3995, 4005, 4015, 4025, 4035, 4045, 4055, 4065, 4075, 4085, 4095, 4105, 4115, 4125, 4135, 4145, 4155, 4165, 4175, 4185, 4195, 4205, 4215, 4225, 4235, 4245, 4255, 4265, 4275, 4285, 4295, 4305, 4315, 4325, 4335, 4345, 4355, 4365, 4375, 4385, 4395, 4405, 4415, 4425, 4435, 4445, 4455, 4465, 4475, 4485, 4495, 4505, 4515, 4525, 4535, 4545, 4555, 4565, 4575, 4585, 4595, 4605, 4615, 4625, 4635, 4645, 4655, 4665, 4675, 4685, 4695, 4705, 4715, 4725, 4735, 4745, 4755, 4765, 4775, 4785, 4795, 4805, 4815, 4825, 4835, 4845, 4855, 4865, 4875, 4885, 4895, 4905, 4915, 4925, 4935, 4945, 4955, 4965, 4975, 4985, 4995, 5005, 5015, 5025, 5035, 5045, 5055, 5065, 5075, 5085, 5095, 5105, 5115, 5125, 5135, 5145, 5155, 5165, 5175, 5185, 5195, 5205, 5215, 5225, 5235, 5245, 5255, 5265, 5275, 5285, 5295, 5305, 5315, 5325, 5335, 5345, 5355, 5365, 5375, 5385, 5395, 5405, 5415, 5425, 5435, 5445, 5455, 5465, 5475, 5485, 5495, 5505, 5515, 5525, 5535, 5545, 5555, 5565, 5575, 5585, 5595, 5605, 5615, 5625, 5635, 5645, 5655, 5665, 5675, 5685, 5695, 5705, 5715, 5725, 5735, 5745, 5755, 5765, 5775, 5785, 5795, 5805, 5815, 5825, 5835, 5845, 5855, 5865, 5875, 5885, 5895, 5905, 5915, 5925, 5935, 5945, 5955, 5965, 5975, 5985, 5995, 6005, 6015, 6025, 6035, 6045, 6055, 6065, 6075, 6085, 6095, 6105, 6115, 6125, 6135, 6145, 6155, 6165, 6175, 6185, 6195, 6205, 6215, 6225, 6235, 6245, 6255, 6265, 6275, 6285, 6295, 6305, 6315, 6325, 6335, 6345, 6355, 6365, 6375, 6385, 6395, 6405, 6415, 6425, 6435, 6445, 6455, 6465, 6475, 6485, 6495, 6505, 6515, 6525, 6535, 6545, 6555, 6565, 6575, 6585, 6595, 6605, 6615, 6625, 6635, 6645, 6655, 6665, 6675, 6685, 6695, 6705, 6715, 6725, 6735, 6745, 6755, 6765, 6775, 6785, 6795, 6805, 6815, 6825, 6835, 6845

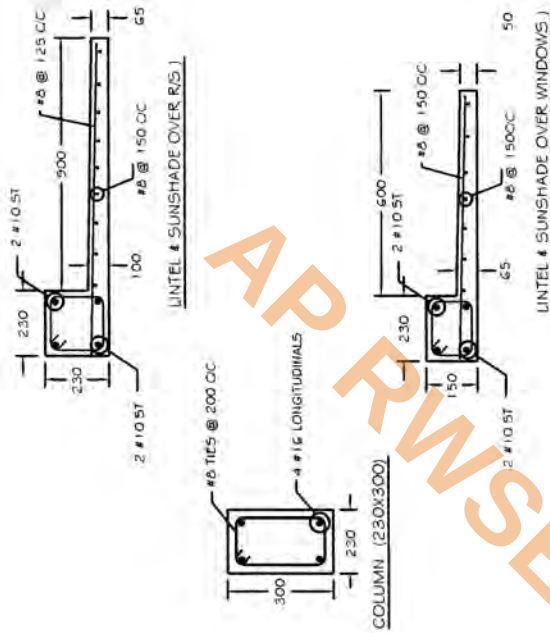
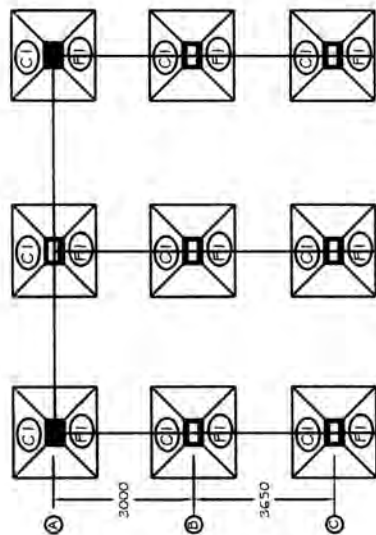
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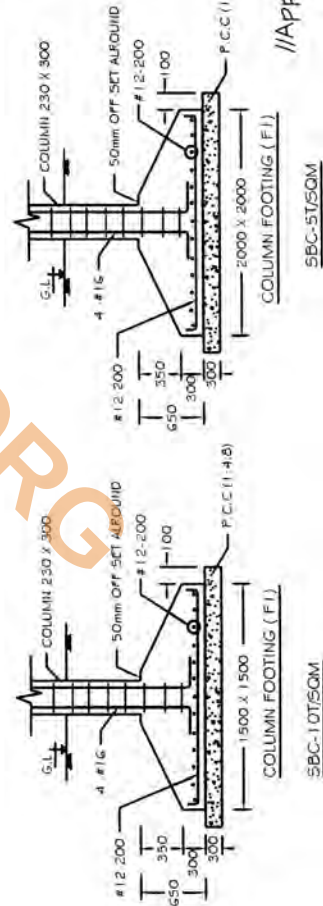
Dy. Executive Engineer

Asst Executive Engineer

Chief Engineer-II
RWSE, Gollapudi
Vijayawada.



- NOTE
- 1) ALL DIMENSIONS ARE IN mm
 - 2) ALL P.C.C. WORK IN M20 GRADE DESIGN MIX.
 - 3) STEEL REINFORCEMENT OF H.Y.S.D. BARS
 - 4) GRADE Fe 415
 - 5) CLEAR COVER TO REINFORCEMENT:
 - a) FOOTING : 50mm to BOTTOM MOST REINFORCEMENT
 - b) COLUMN : 40mm to TIES
 - c) BEAMS : 25mm to STIRRUPS
 - 6) LAP LENGTHS:
 - a) IN COMPRESSION : 45 DIA.
 - b) IN TENSION : 55 DIA.
 - 7) ALL LAPS SHOULD BE STAGGERED
 - 8) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456:2000
 - 9) SBC OF THE SOIL 100 NUSQM

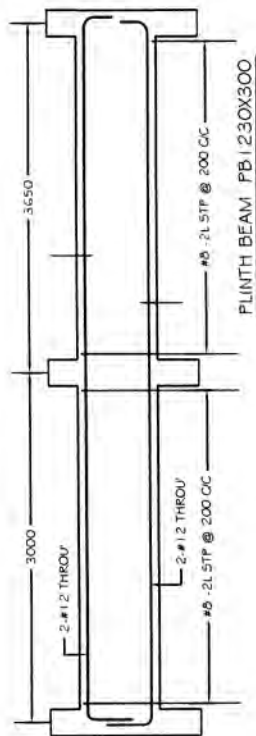


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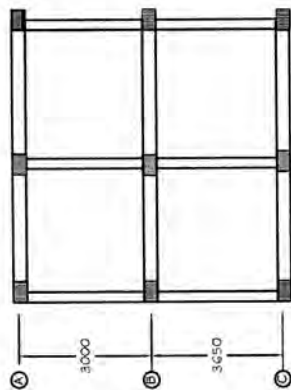
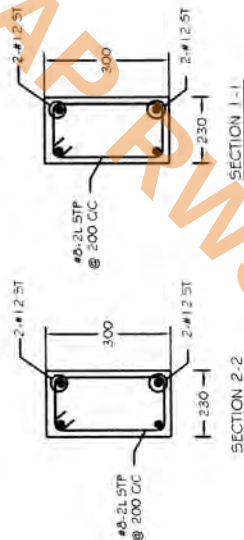
27.2.19
Dy. Executive Engineer

Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

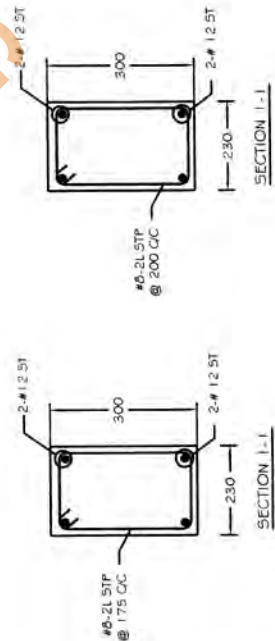
Asst Executive Engineer



PLINTH BEAM PB1 230X300



PLINTH BEAM PB2 230X300



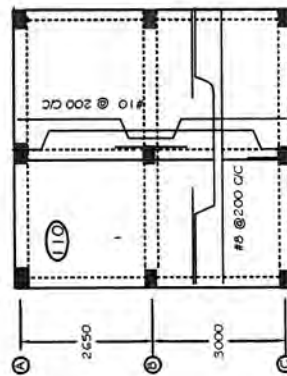
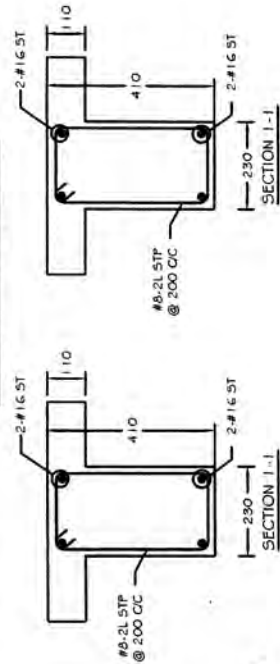
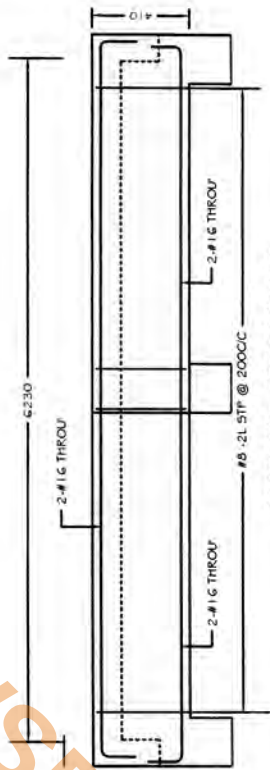
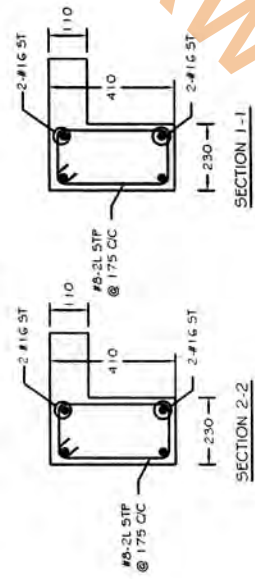
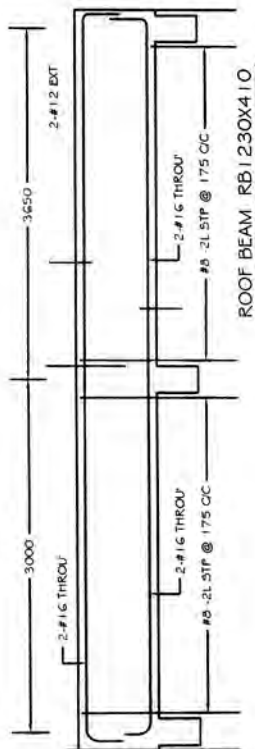
- NOTE:
- 1) ALL DIMENSIONS ARE IN mm.
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 - b) COLUMN : 40mm to TIES.
 - c) BEAMS : 25mm to STIRRUPS.
 - d) SLABS : 25mm to TOP.
 - 5) SPACING OF REINFORCEMENT:
 - a) IN COMPRESSION : 45 DIA.
 - b) IN TENSION : 55 DIA.
 - 6) ALL LAPS SHOULD BE STAGGERED.
 - 7) WORK SHOULD BE CARRIED OUT AS PER I.S. CODE 456:2000.

//Approved//

Chief Engineer-II
RWS#S.Gollapudi
Vijayawada.

R.S.D.
27.2.2018
Dy. Executive Engineer

Asst Executive Engineer



//Approved//

27.2.19

Dy. Executive Engineer

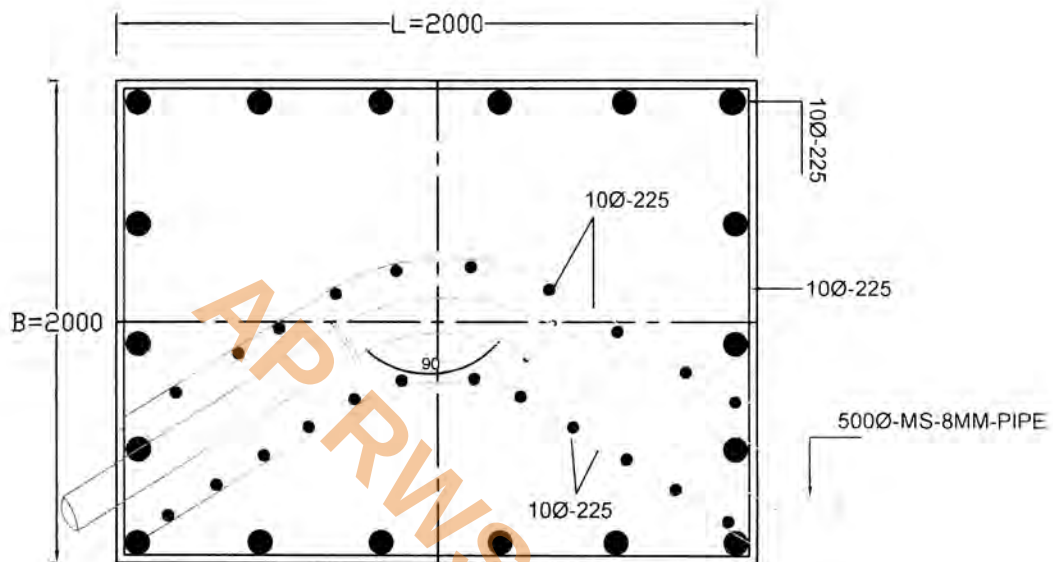
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Chief Engineer-II
RWS&S, Gollapudi
Vijayawada.

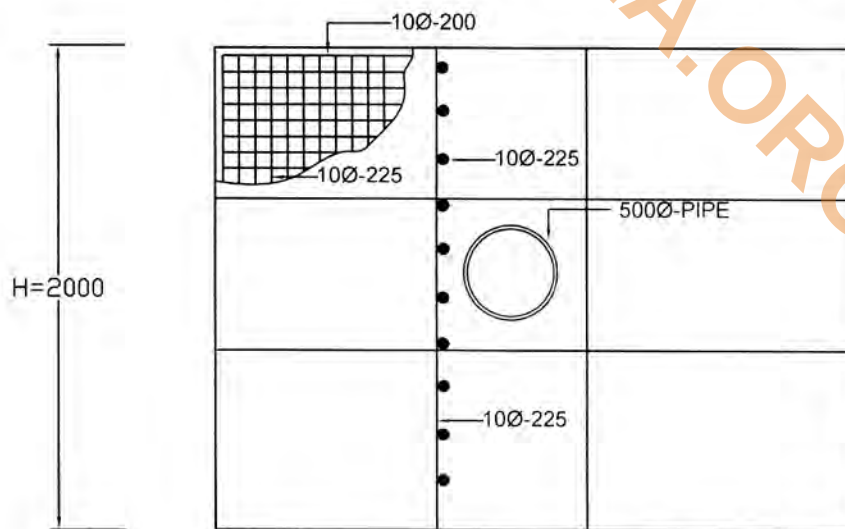
**DESIGN OF THRUST BLOCK
FOR 500MM PIPE WITH 6 kg/cm² AND 90 DEGREES BEND**

Diameter of the pipe	Dia	500 mm
Pressure in pipe	Pr	6.00 kg/cm ²
Length of outer edge		2.00
Length of inner edge		2.00
Length of thrust block	Lbt	2.00 m
Width of thrust block	Wtb	2.00 m
Depth of the thrust block	Dtb	2.00 m
Angle of deviation	alpha	90 degrees
Angle of internal friction	phi	30 degrees
Cohesion	Ch	0 kg/cm ²
Earth cover	hi	0.50 m
Area of cross section	area	1963.50 cm ²
Horizontal thrust	Ht	16.66 t
Lateral resistance to counteract the horizontal thrust		
Wt. Of thrust block		18.26 t
Wt. Of water		0.393 t
Wt of earth		1.62 t
	Wl	20.27 t
Total force available considering frictional resistance of soil		
	Wi	6.081 t
Lateral resistance of soil against the block		
	fi	21.60 t
	fii	0.00 t
	fiii	1.73 t
	Wii	23.33 t
Lateral resistance of soil when the thrust block is free to yield away from the soil mass in the portion of projected pipes		
	xi	0.30 t
	xii	0.00 t
	xiii	0.58 t
	Wiii	0.300 t
Total lateral resistance	Res	29.71 t
Factor of safety		1.78 OK
Check for safe bearing capacity		
Total weight of the thrust block		20.27 t
SBC of the soil		12.00 t/m²
Area of the thrust block		4 m ²
SBC required		5.07 t/m ²
		OK
Provide 2m x2m x2m thrust block		
Reinforcement; skin reinforcement of 5kg/m ²		5.00 kg
	Dia of bar	10 mm
	Spacing	200 mm
Skin reinforcement provided		6.17 kg

THRUST BLOCK 500MM-60 M HEAD
(90 DEG-BEND)



HORIZONTAL SECTION OF THRUST BLOCK



VERTICAL SECTION OF THRUST BLOCK

DESIGN OF PEDESTALS

500 mm MS

Spacing of anchore blocks	4
Internal dia of the pipe	500 mm
Weight of the pipe	4.01 kn
Weght of water	7.85 kn
Total down word load	11.86 kn
Mx. Slope angle	25 Deg
Outer dia of the pi[e	516 mm
 Total load on pedestal	 11.86 kn

Design of pedestal

Length of Pedestal	900	0.90 m
Width of the pedestal	450	0.45 m
Max. hieght of the pedestal	1450	1.45
self weight of the pedestal	=	14.68 kn
Total load on pedestal	=	26.54 kn
Cross sectional area of the pedestal	=	0.41 m ²
Max. cmpressive stress on pillar	=	0.066 n/mm ²
		OK
Min area of steel required	=	53.09 mm ²

Provide Y10 -200VI,- as vertical bars and Y8-200 mm c/c as transverse rods

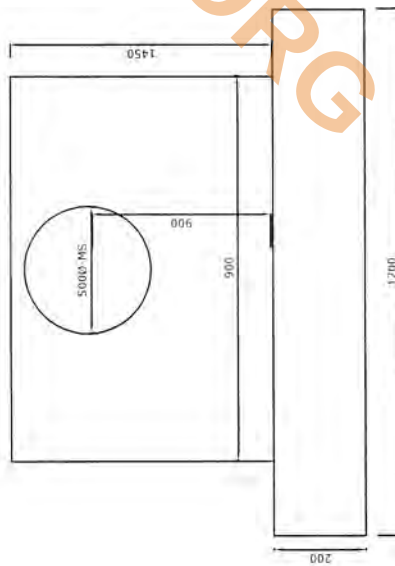
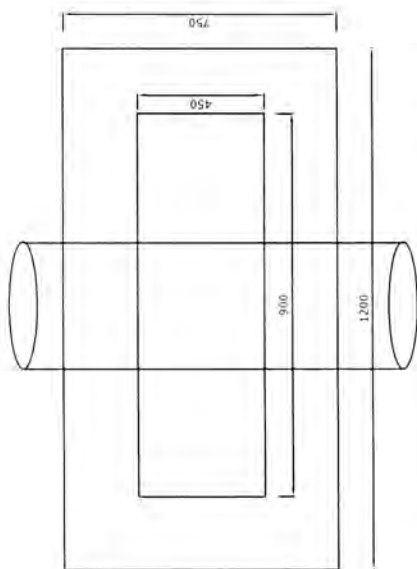
Over turning check

Load on pedestat	=	11.86 kn
Load parallel to the slope	=	5.01 kn
Max. height of pipe center on top of footing	=	0.90 m
Max. height of pipe center from bottom of footing	=	1.10 m
Max.Moment on top of footing	=	4.51 knm
Max.Moment at bottom of footing	=	5.51 knm
Area of the pedestal	=	405000 mm ²
Section modulus of pedestal		30375000.00 mm ³
Length of footing	1200	1.20 m

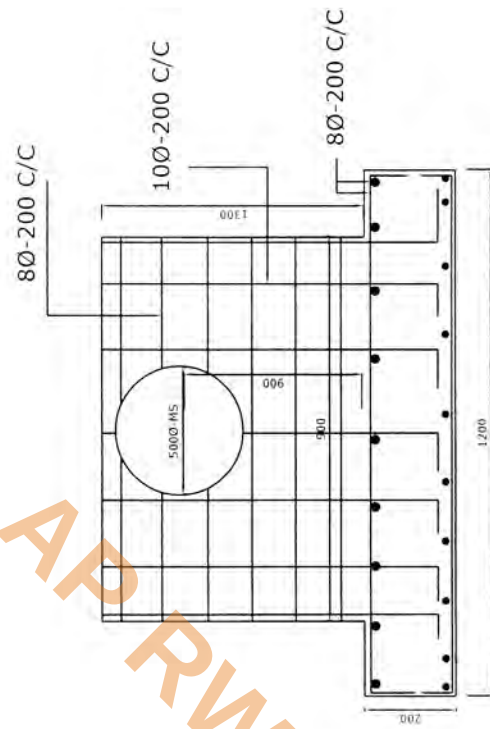
Width of the footing	750	0.75 m	
Max. height of the footing	200	0.20	
Self weight of the footing	=	4.50 kn	
Area of the footing	=	900000 mm ²	
Section modulus of footing	=	112500000 mm ³	
P _{max} at top of the footing	=	0.21 n/mm ²	
P _{min} at top of the footing	=	-0.08 n/mm ²	
P _{max} at bottom of the footing	=	0.08 n/mm ²	
P _{min} at bottom of the footing	=	-0.01 n/mm ²	
Max tensile Stress	=	0.012 n/mm ²	< 2.8 n/mm ²
Max Bending stress	=	0.149 n/mm ²	< 1.7 n/mm ²

Design footing

Length of footing	=	1.20 m	
Width of footing	=	0.75 m	
Depth of footing	=	0.20 m	
Self weight of footing	=	4.50 kn	
Self weight of pedestal	=	14.68 kn	
Weight of pipe + water	=	11.86 kn	
Total	=	31.04 kn	
Safe bearing capacity of the soil	=	200 kn/m ²	
Area of the footing required	=	0.2 m ²	
Area of the footing provided	=	0.90 m ²	OK



Pedestal for 500mm dia MS-8mm pipes



Pedestal for 500mm dia MS-8MM pipe

Design of MS Pipe of 1400mm Dia As per IS codes

Static Head with Lose:	68.00 mts	Internal Dia of the Pipe	1400 mm
Water Hammer Head	124.00 mts	Internal CM Lining	15 mm
Total Head	192.00 mts	Thickness of MS Pipe	14 mm
		Outside Dia of the Pipe	1415 mm
Design Pressure = Twice the working pressure		Outside CM lining	30 mm
	136	Trench size	2.6 x 2.60
Say	13.6 Kg/Cm ²		
Considering water hammer hea	125.00		
Say	12.50 Kg/Cm ²	<	13.6 Kg/Cm ²

Factory Test Pressure= 192.00 Kg/Cm²
Hence Design Pressure= 192.00 Kg/Cm²

Thickness of the Pipe As Per IS 3589

$$P = 2 \times S \times T / D$$

P= Hydraulic test Pressure = 1.92 Mpa
D= Outside dia of the pipe =
T= Specified thickness of the pipe
S= Stress 60% of the specified min Yield stress in Mpa

$$T = 10.06 \text{ mm}$$

As per IS 5822

$$\text{Nominal Thickness } t = \frac{P \times D}{(2 \times a \times f \times e + P)}$$

t = Nominal thickness in mm
P = Nominal design pressure in Mpa
D = Outside diameter in MM
f = Specified min yield stress 250
e = Weld efficiency 90%
a = Design factor 0.9

For Working Pressure
 $t = 3.55 \text{ mm}$

For Design pResure
 $t = 11.09 \text{ mm}$

Shell Thickness

Thickness of shell $t_s = 14 \text{ mm}$
Thickness of inside CM = 15 mm
Thickness of outside C = 30 mm

Young's Modulus of Concrete = $3.57 \times 10^5 \text{ Kg/Cm}^2$ 357000
Young's Modulus of Steel = $2.10 \times 10^6 \text{ Kg/Cm}^2$ 2100000

$$t_e = \text{Equivalent Thickness}$$

$$t_e = t_s + (t_c \times E_c / E_s)$$

$$= 10 + (14 + 3.57 \times 10^5 / 2.10 \times 10^6)$$

$$= 16.55 \text{ mm} \quad 1.655 \text{ cm}$$

Internal dia of the Pipe = 1400 mm
Dia of Internal Lining = 1415 mm
Dia of MS Barrel = 1444 mm
Outside dia of the Pipe = 1488 mm

Weight of internal lining = 136.08
Weight of Steel Pipe = 285.00
Weight of Outside coating = 298.13

Weight of water	=	785.71	
		1504.93 Kgs	
Say		1505.00 Kgs	
Weight due to soil fillir W_{fill}	=	$C_d \times \gamma_s \times B_e \times B_d$	
γ_s	=	Unit weight of soil	= 1800 Kg/Cm ²
B_e	=	Outer dia of Pipe	= 1.415 mts
B_d	=	width of trench	= 2.60 mts
H	=	Height of Fill	= 1.185 mts
H/B_d	=	0.456	
C_d	=	0.419	0.419
W_{fill}	=	2775 Kg/Cm ²	
Self weight	=	753 Kg/m	
Total Weight	=	3527 Kg/m	

Deflection :-

For External load and partial vaccum pressure

$$= D^2 \times k_e \times W_e \times R^3 / (E \times I + 0.061 \times e^1 \times R^3 - 2 \times p_e \times R^3 \times K_e)$$

For 90° Bends

W_e	=	35.27 kg/Cm	
I	=	0.378 cm ³	
D_e	=	1433.1 mm	
R	=	716.55 mm	71.655 cm
Youngs' Modulus	Y	=	2600 kg/Cm ²
Weld Efficiency	=	90%	
Deflection	=	0.863 cm	
Allowable Deflection	=	2% of nominal dia	
		2.83 cm	
Hence Safe			

Deflection considering internal pressure

$$= 0.08289 \text{ cm} < 2.83$$

Hence Safe

Compressive Stress :- External load due to side support and Partial Vacuum

$$M_b = K_b \times W_e \times R \times E \times I / (E \times I + 0.061 \times e^1 \times R^3 - 2 \times p_e \times K_e \times R^3)$$

$$f_{comp} = (M_b \times 6 / t_e^2) + (p_e \times D_e) / (2 \times t_e)$$

		218.11 Kg. Cm	
		516.91 kg/Cm ²	Say 517 kg/Cm ²
Allowable compressive Stress	=	0.50 x 2600 x 0.9 kg/Cm ²	
		1170 kg/Cm ²	

Tensile Stress :-

$$f_{ten} = (K_b \times W_e \times R \times E \times t_e) / (2 \times (E \times I + 0.061 \times e^1 \times R^3 + 2 \times p_e \times K_e \times R^3)) + (p_e \times D_e / 2 \times t_e)$$

		1076 kg/Cm ²	
Allowable Tensile Stress	=	0.60 x 2600 x 0.9 kg/Cm ²	
		1404 kg/Cm ²	

Hence Safe

Check for Buckling :-

Critical pressure for Buckling	$F =$	$1.65 \times E \times (t_e / D_e)^3$	
	=	5.34 kg/Cm ²	
Actual Pressure	=	0.246 kg/Cm ²	

Hence Safe

**GOVERNMENT OF ANDHRA PRADESH
ABSTRACT**

Panchayat Raj & Rural Development Department - Streamlining the powers of all the Engineering Departments – To implement / adopt comprehensive guidelines issued by Water Resources Department vide G.O.Ms.No.41, Dt:24-05-2018 to Rural Water Supply and Sanitation Department – Permission accorded – Orders – Issued.

PANCHAYAT RAJ & RURAL DEVELOPEMNT (RWS&S-I) DEPARTMENT

G.O.MS.No. 234

Dated: 11-12-2018.
Read the following:-

1. G.O.Ms.No 1007, TR&B(C1) Dept., Dated:05.11.1976.
2. G.O.Ms.No.41, Water Resources (Reforms) Dept., Dated:24.05.2018.
3. From the Engineer-in-Chief, RWS&S Dept., Vijayawada, Lr.No. AEE/DEE(T)/41/2018, dt:09.08.2018.

& & &

ORDER:-

In the G.O 2nd read above, the Water Resources Department have issued orders for accepting the recommendations of the Board of Chief Engineer (BoCEs) with certain modifications and issue the comprehensive guidelines applicable to all Engineering departments for enhancement of powers.

2. In the reference 3rd read above, the Engineer-in-Chief, Rural Water Supply & Sanitation, Vijayawada has requested the Government to accord permission for implementing / adopting comprehensive guidelines issued in G.O.2nd read above to RWS&S Department also.

3. Government, after careful examination of the proposal, hereby accord permission to implement the following revised delegation of powers in Rural Water Supply and Sanitation Department, as adopted by Water Resources (Reforms) Department in the G.O 2nd read above.

Nature of Powers	Cadre	Revised Delegation of Powers as per Water Resources (Reforms) dept. G.O.Ms.No.41 Dt: 24-05-2018		Revised Delegation of Powers to RWS department requested	
		For Plain Areas	For Tribal Areas	For Plain Areas	For Tribal Areas
Administrative Approval to estimates for works (other than residential buildings and electrical works)	CE	Rs.20 Lakhs	Rs.30.00 Lakhs	Rs.20 Lakhs	Rs.30.00 Lakhs
	SE	Rs. 10.00 Lakhs	Rs.15.00 Lakhs	Rs. 10.00 Lakhs	Rs.15.00 Lakhs
	EE	Rs.1,00,000/-	Rs.1,50,000/-	Rs.1,00,000/-	Rs.1,50,000/-
Administrative Approval to full contributinal works	CE	Full Powers		Full Powers	
	SE	Rs.2.00 Lakh		Rs.2.00 Lakh	
	EE	Rs.30,000/-		Rs.30,000/-	
Powers over nomination	CE	Rs.3,00,000/-		-----	
	SE	Rs.2,00,000/-		-----	
	EE	Rs.1,00,000/-		Rs.5,00,000/- As per G.O MS No 198 dt 03.06.2005	
Excess over estimates	CE	15% above the amount of Technical		No change	
	SE	10% subject to a limit of powers of technical sanction		No change	
	EE	5% subject to a limit of powers of technical sanction		No change	

Nature of Powers	Cadre	Revised Delegation of Powers as per Water Resources (Reforms) dept. G.O.Ms.No.41 Dt: 24-05-2018	Revised Delegation of Powers for RWS department requested
Passing excess expenditure on all works irrespective of total sanctioned estimate without percentage limit	CE	Rs.10,000/-	No change
	SE	Rs.6,000/- SE has no powers to sanction excess over revised estimate sanctioned by higher authority	No change
	EE	Rs.2,000/- SE has no powers to sanction excess over revised estimate sanctioned by higher authority	No change
Technical sanction to detailed estimate of works	CE	Up to Administrative approval	No change
	SE	Up to Rs.200.00 lakhs	Up to Rs.200.00 lakhs
	EE	Up to Rs.40.00 lakhs	Up to Rs.40.00 lakhs
	DEE	-	Up to Rs.5.00 lakhs
Acceptance of Tenders	COT	COT can accept tenders above Rs.10.00 Crores	Departmental Tender Committee Can accept tenders above Rs.10.00 Crores.
	CE	Can accept tenders up to Rs.10.00 Crores	Can accept tenders up to Rs.10.00 Crores
	SE	Can accept tenders up to Rs.200.00 lakhs	Can accept tenders up to Rs.200.00 lakhs
	EE	Can accept tenders up to Rs.40.00 lakhs	Can accept tenders up to Rs.40.00 lakhs
	DEE	-	Can accept tenders up to Rs.5.00 lakhs.

4. The Engineer-in-Chief, Rural Water Supply & Sanitation, Vijayawada shall take necessary action in the matter accordingly.

5. A copy of this order is available on internet and can be accessed at www.ap.gov.in/goir.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

Dr. K.S. JAWAHAR REDDY,
PRINCIPAL SECRETARY TO GOVERNMENT.

To

The Engineer-in-Chief, Rural Water Supply & Sanitation, Vijayawada.

Copy to:

The Director, Treasuries and Accounts, AP, Vijayawada,

The Accountant General, Andhra Pradesh, Hyderabad.

The OSD to Hon'ble M (PR&RD, ITE&C),

The PS to Prl. Secretary (PR&RD)

The PR&RD(RWS-II) Dept.,

SC/SF.

// FORWARDED : : BY ORDER //

SECTION OFFICER.