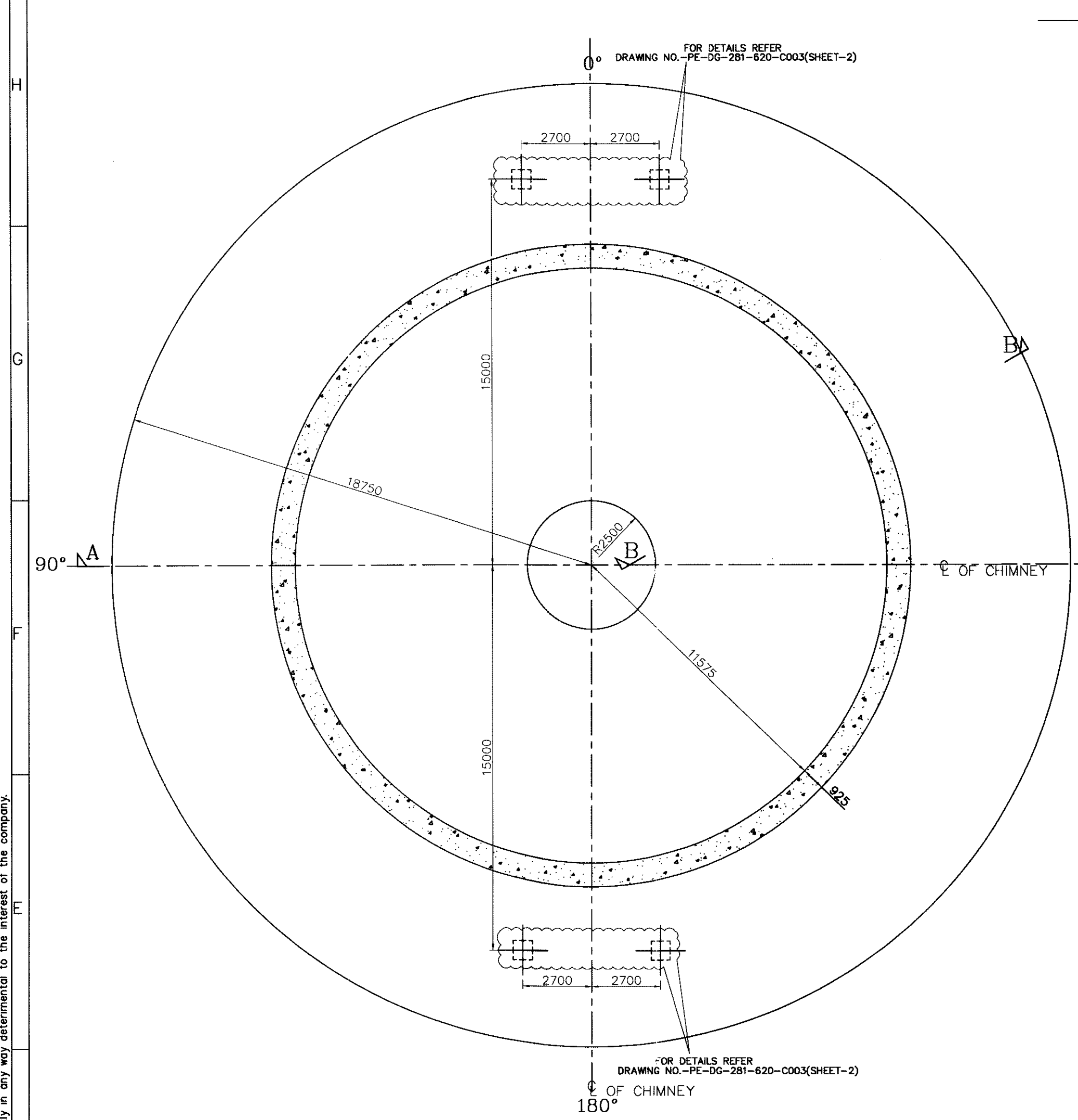
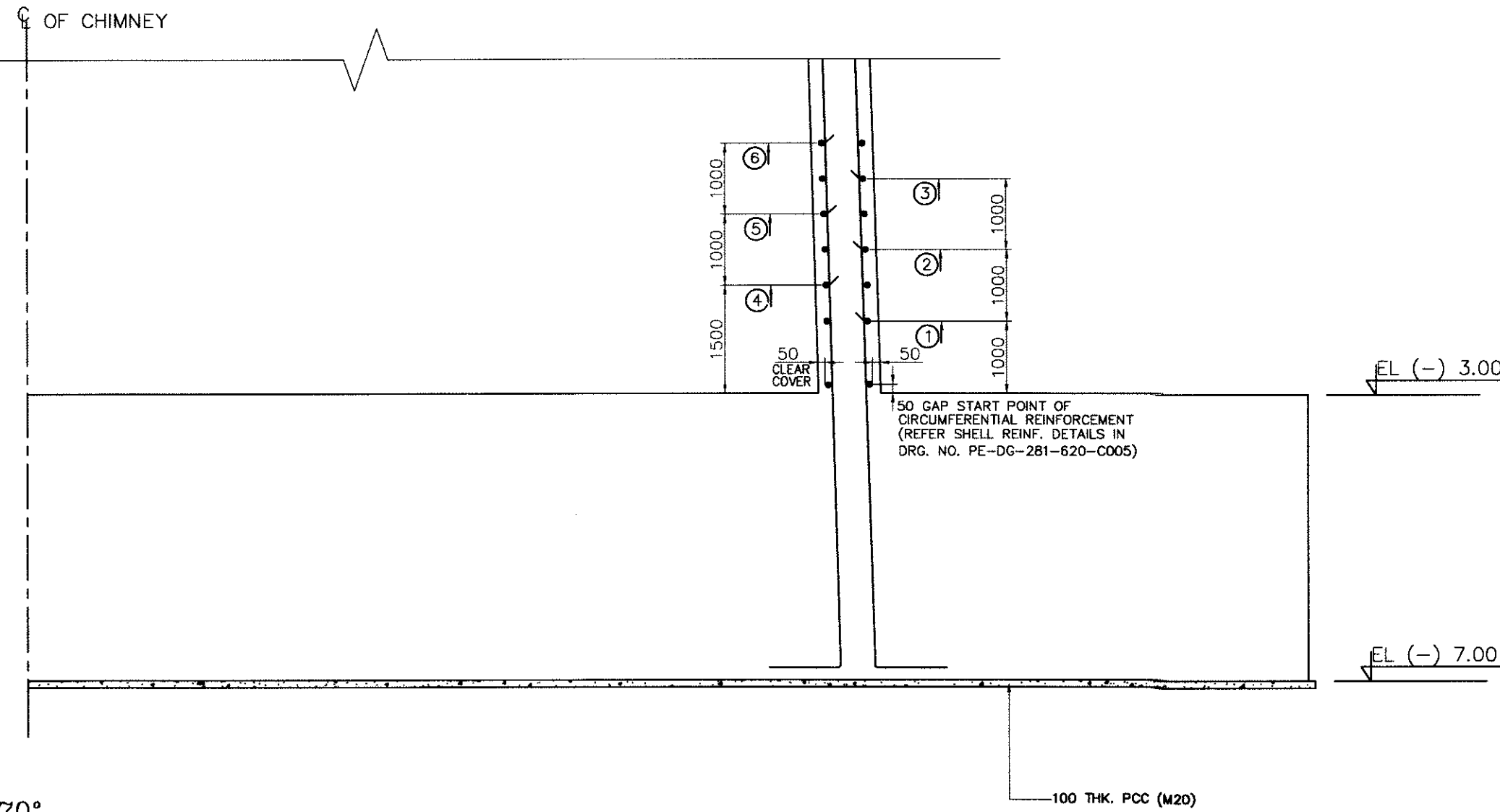


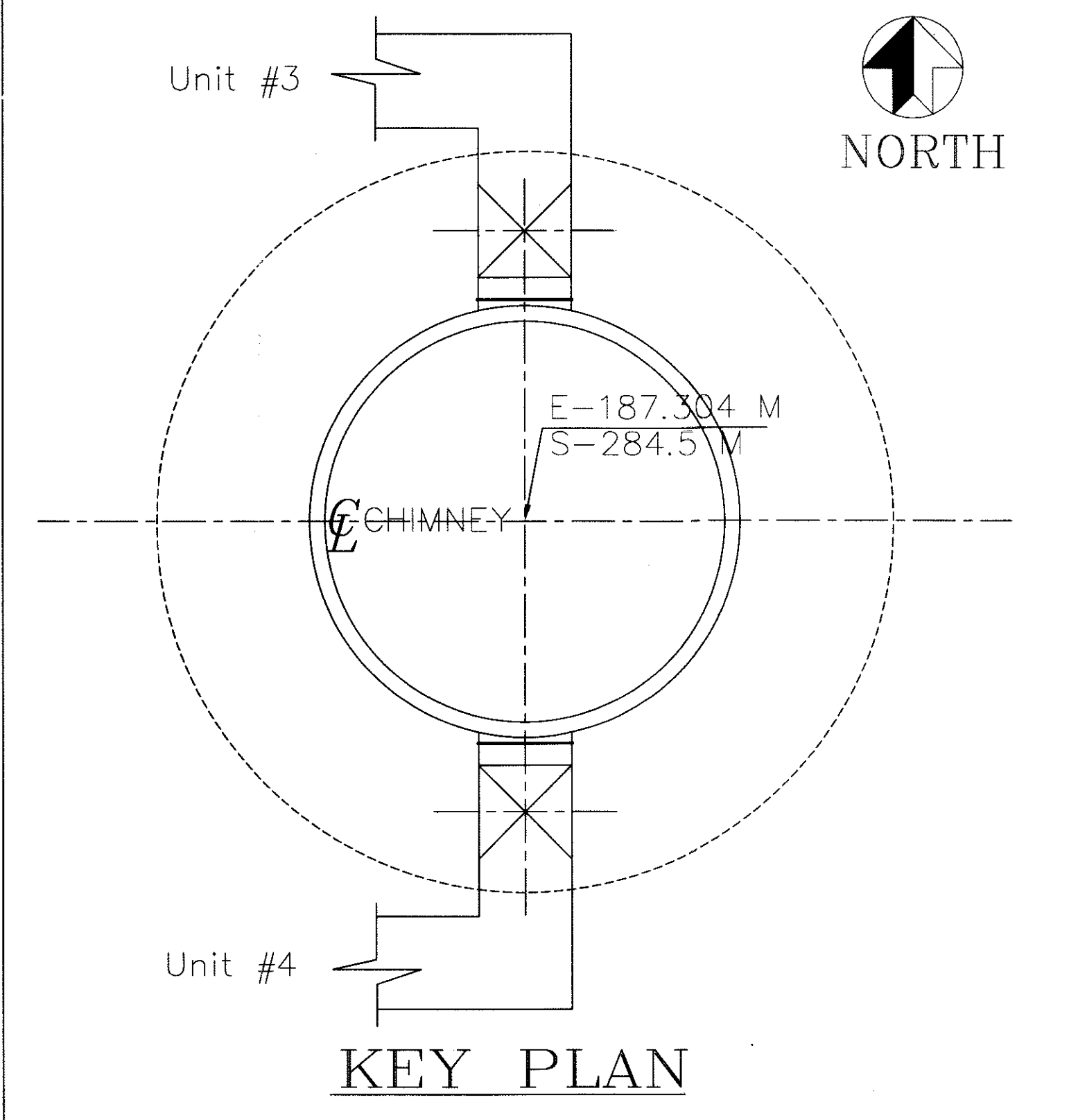
PE-DG-281-620-C003
DRAWING NO.



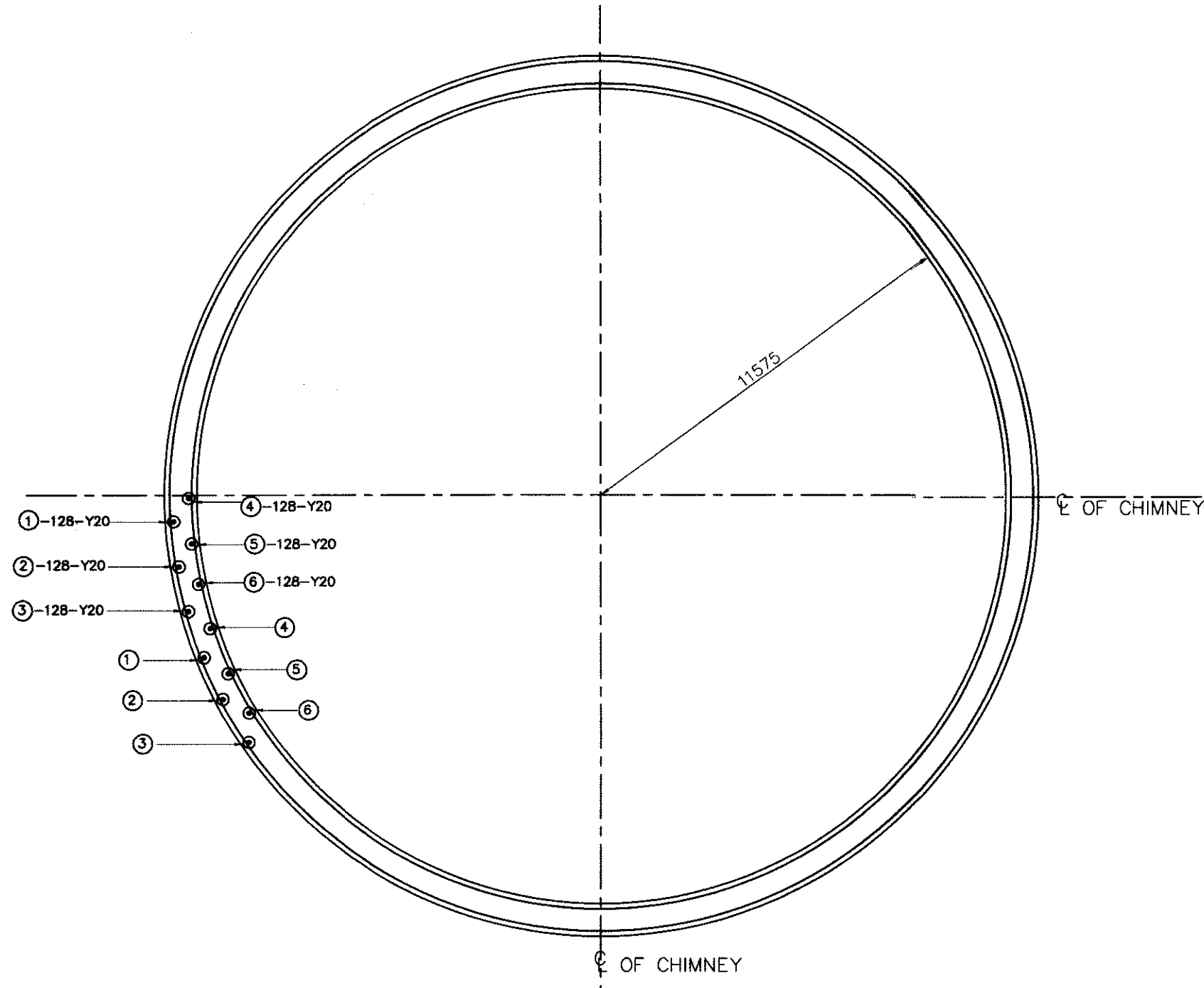
FOUNDATION PLAN



SECTION B-B
SHOWING ARRANGEMENT OF DOWELS IN CHIMNEY SHELL
(NOTE - CLEAR COVER TO CIRCUMFERENTIAL DOWELS AT INSIDE FACE AND AT OUTSIDE FACE OF SHELL IS 50mm.)



KEY PLAN



DETAILS OF STARTER BARS FOR CONCRETE SHELL
(NOTE:- NUMBER OF BARS SHOWN AGAINST EACH BAR MARK IS TO BE UNIFORMLY DISTRIBUTED ALONG FULL CIRCLE)

- NOTES**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS/ELEVATIONS ARE IN METRES.
 2. EL ± 0.000 CORRESPONDS TO RL (+)10.5 M.
 3. ADEQUATE NUMBER OF STRONG CHAIRS SHALL BE PROVIDED TO ACCURATELY PLACE THE REINFORCEMENT AND MAINTAIN THEM IN CORRECT POSITION DURING PLACING AND COMPACTION OF CONCRETE.
 4. LAPS SHOWN ARE INDICATIVE AND SHALL BE STAGGERED.
 5. MINIMUM CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS :-
(a). SIDES = 50 mm.
(b). TOP = 75 mm.
(c). BOTTOM = 100 mm.
 6. APPROPRIATE MIX DESIGN SHALL BE FOLLOWED FOR CONCRETING OF FOUNDATION.
 7. REINFORCED CONCRETE FOR FOUNDATION RAFT SHALL BE GRADE M35 AND FOR CHIMNEY SHELL SHALL BE GRADE M30 CONFORMING TO IS: 456-2000.
 8. REINFORCEMENT BARS SHALL BE CRS BARS OF GRADE Fe500 CONFORMING TO IS: 1786 UNLESS NOTED OTHERWISE.
 9. IF ANY LOOSE SOIL POCKETS OR BLACK COTTON SOIL OR ABUNDANT WELL IS FOUND BELOW THE FOUNDING LEVEL, THE SAME SHALL BE REMOVED AND FILLED WITH PCC OF GRADE M20.
 10. FOR GENERAL ARRANGEMENT OF CHIMNEY REFER APPROVED DRAWING NO. PE-DG-281-620-C001.
 11. FOR REINFORCEMENT DETAILS OF FOUNDATION REFER APPROVED DRG. NO. PE-DG-281-620-C003.
 12. THE EXCAVATION SHALL BE CARRIED OUT WITH PROPER DEWATERING ARRANGEMENTS. GROUND WATER LEVEL SHALL BE MAINTAINED AT LEAST 200 MM. BELOW THE BOTTOM OF EXCAVATION.
 13. ADEQUATE SHEETING & SHORING SHALL BE PROVIDED AS REQUIRED TO PROTECT THE SIDES OF EXCAVATION UNTIL THEY ARE BACK FILLED.
 14. MUD MAT AS SHOWN SHALL BE OF PCC OF GRADE M20 WITH MAXIMUM SIZE OF COARSE AGGREGATE NOT EXCEEDING 20 MM.
 15. PCC SHALL BE DONE IMMEDIATELY AFTER COMPLETION OF FOUNDATION EXCAVATION.
 16. GROUND CONDUCTORS FOR EARTHING & LIGHTING PROTECTION SHALL BE LAID BELOW GROUND LEVEL AS INDICATED IN THE SPECIFICATIONS & THE APPROVED ELECTRICAL DRAWINGS.
 17. ALL MATERIAL QUALITY TESTING, STORAGE, FORM WORK, CONCRETE MIXING, PLACEMENT OF REINFORCEMENT & CONCRETE, WORKMANSHIP, SAFETY, ETC. SHALL CONFORM TO IS: 456 & THE TECHNICAL SPECIFICATIONS.
 18. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH CONTRACT TERMS AND THE TECHNICAL SPECIFICATIONS.

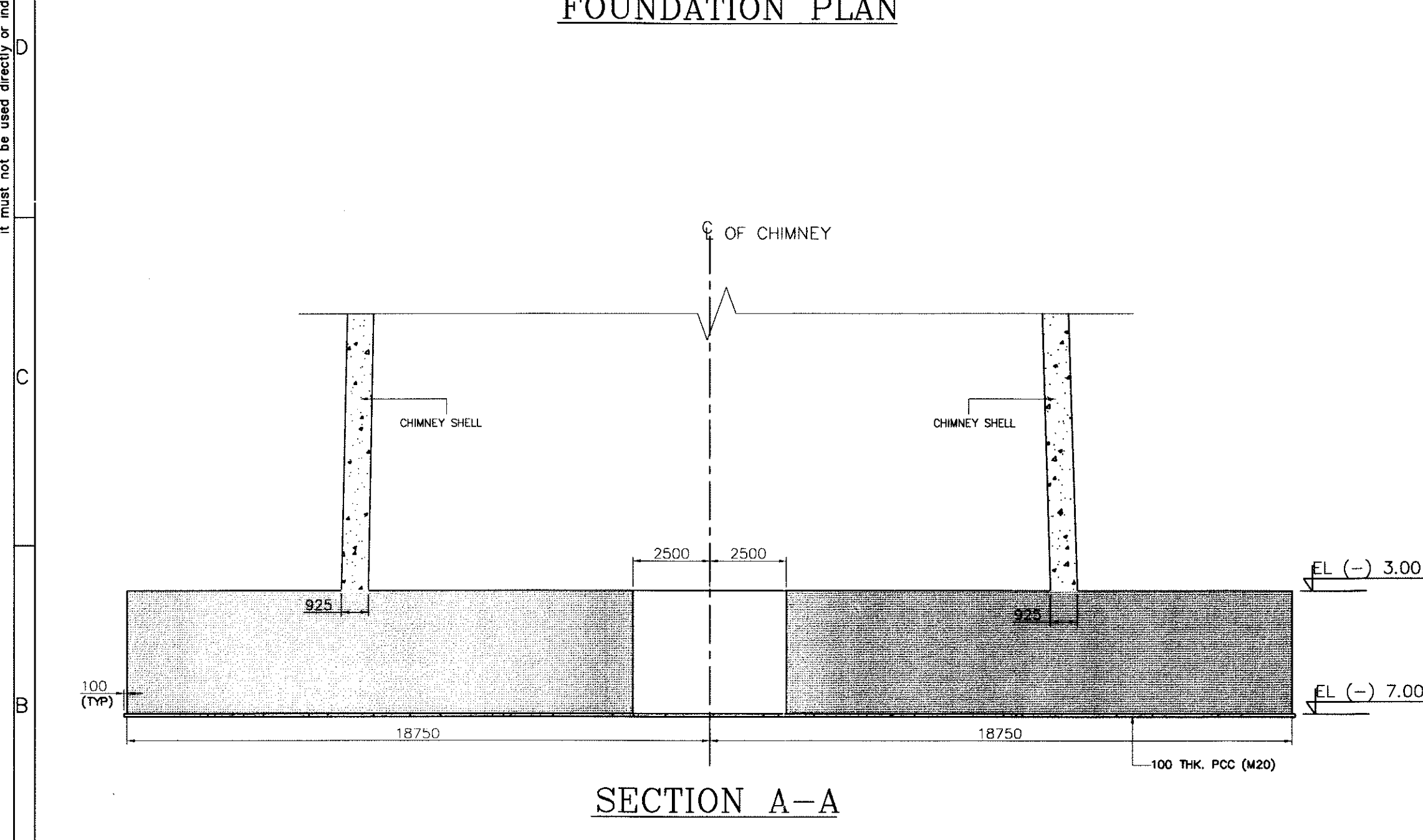
- ENGG REF DWG**
1. GENERAL ARRANGEMENT ----- PE-DG-281-620-C001
- CONST REF DWG**
1. SHELL PROFILE & MAIN REINFORCEMENT DETAIL ----- PE-DG-281-620-C005
- LEGEND**
- VERTICAL BARS: - ① 110-Y25 - DIA OF BARS (mm.)
- 1 - NUMBER OF BARS
- BAR MARK

TCE CONSULTING ENGINEERS LTD.

PROJECT REVIEW STAMP

11/02/2011

11/02/2011



SECTION A-A

BHEL-PROJECT ENGINEERING MANAGEMENT (CIVIL)

THIS DRAWING IS RELEASED FOR COMMENTS/APPROVAL

STAMP ALL PREVIOUS REVISION AS SUPERSEDED

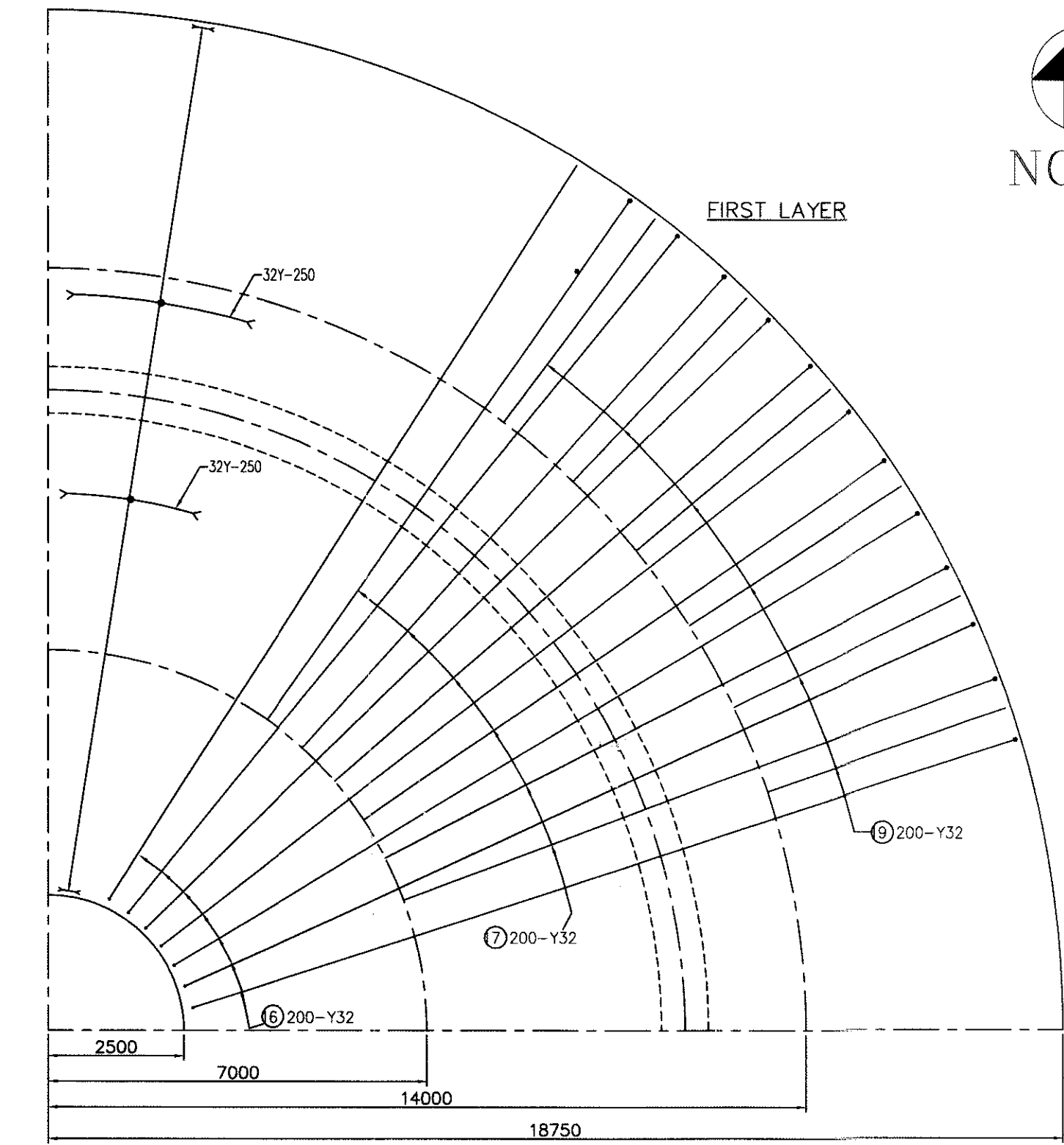
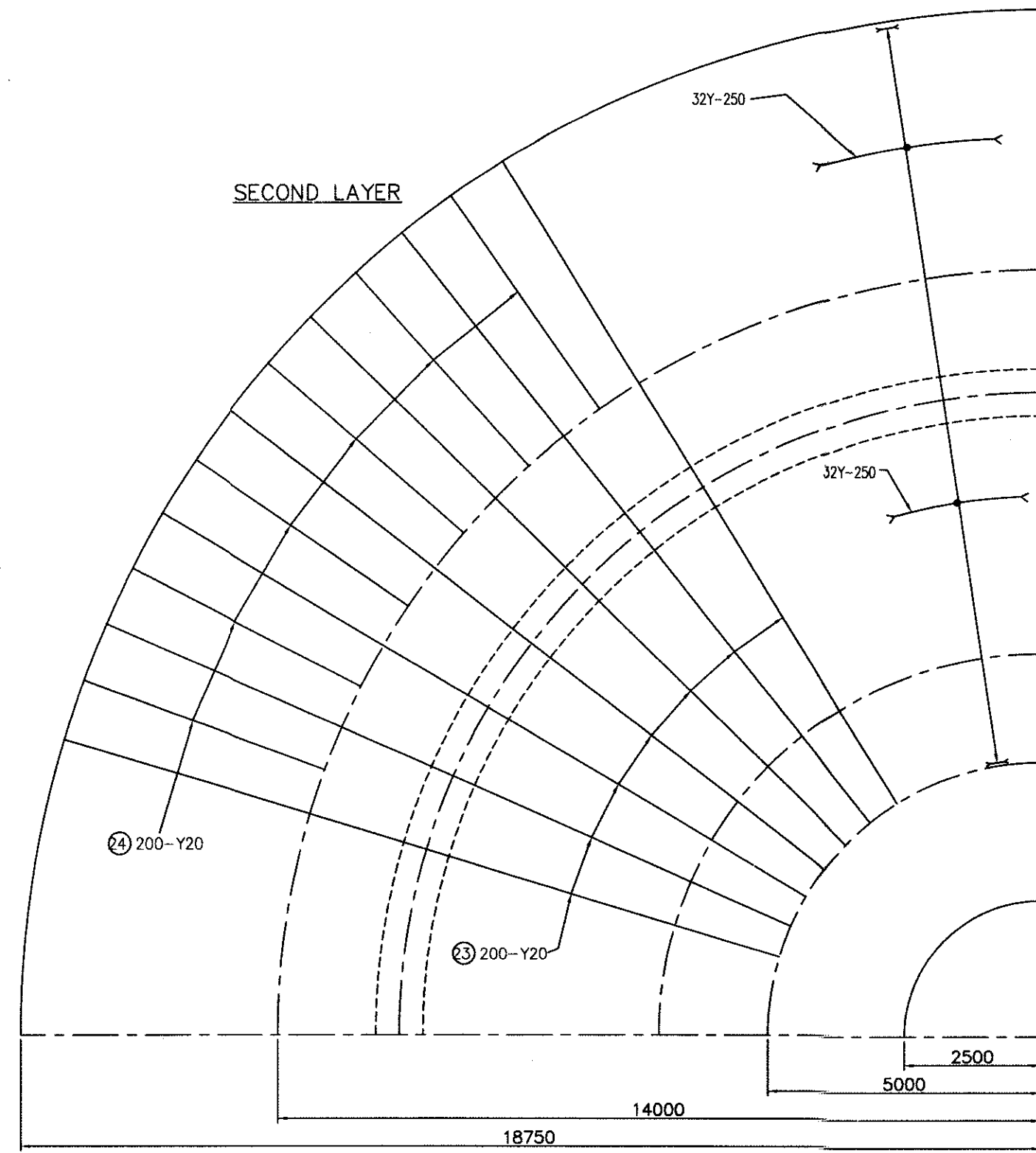
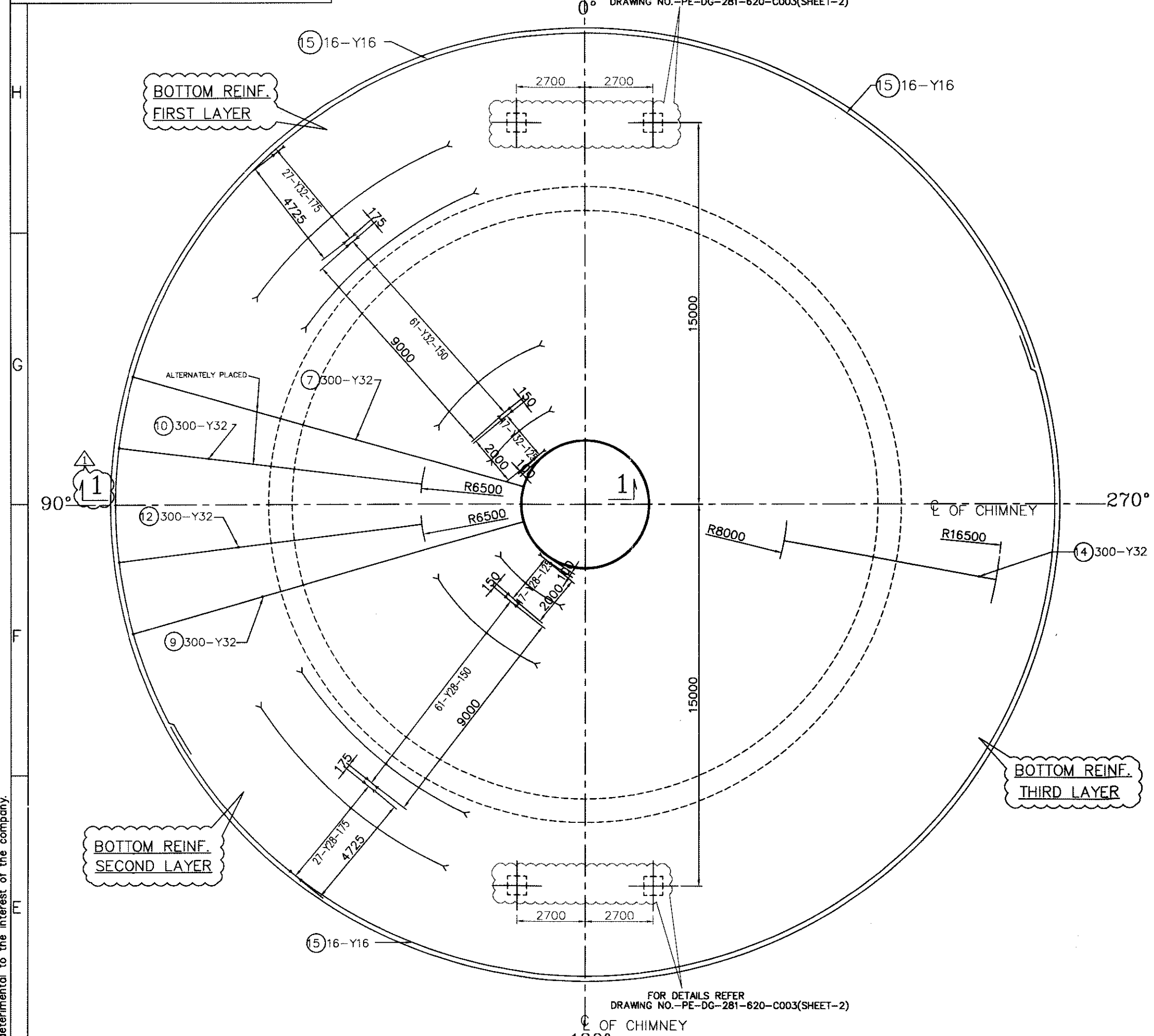
ISSUED BY:

NAME: M.P.
SIGNATURE: Sd/-
DATE: 14/02/2011

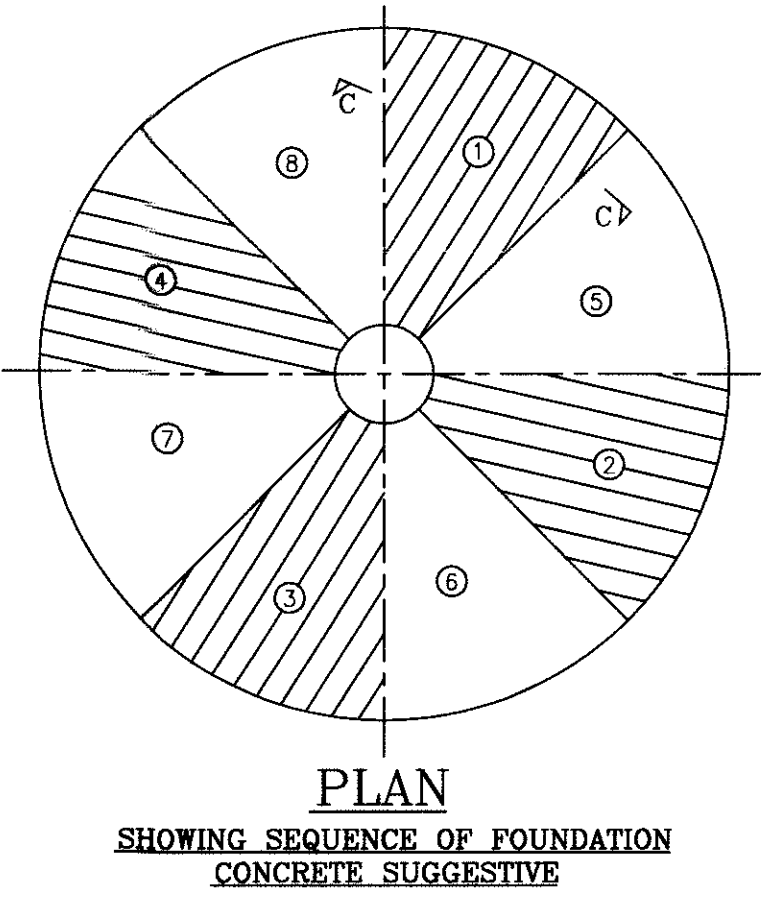
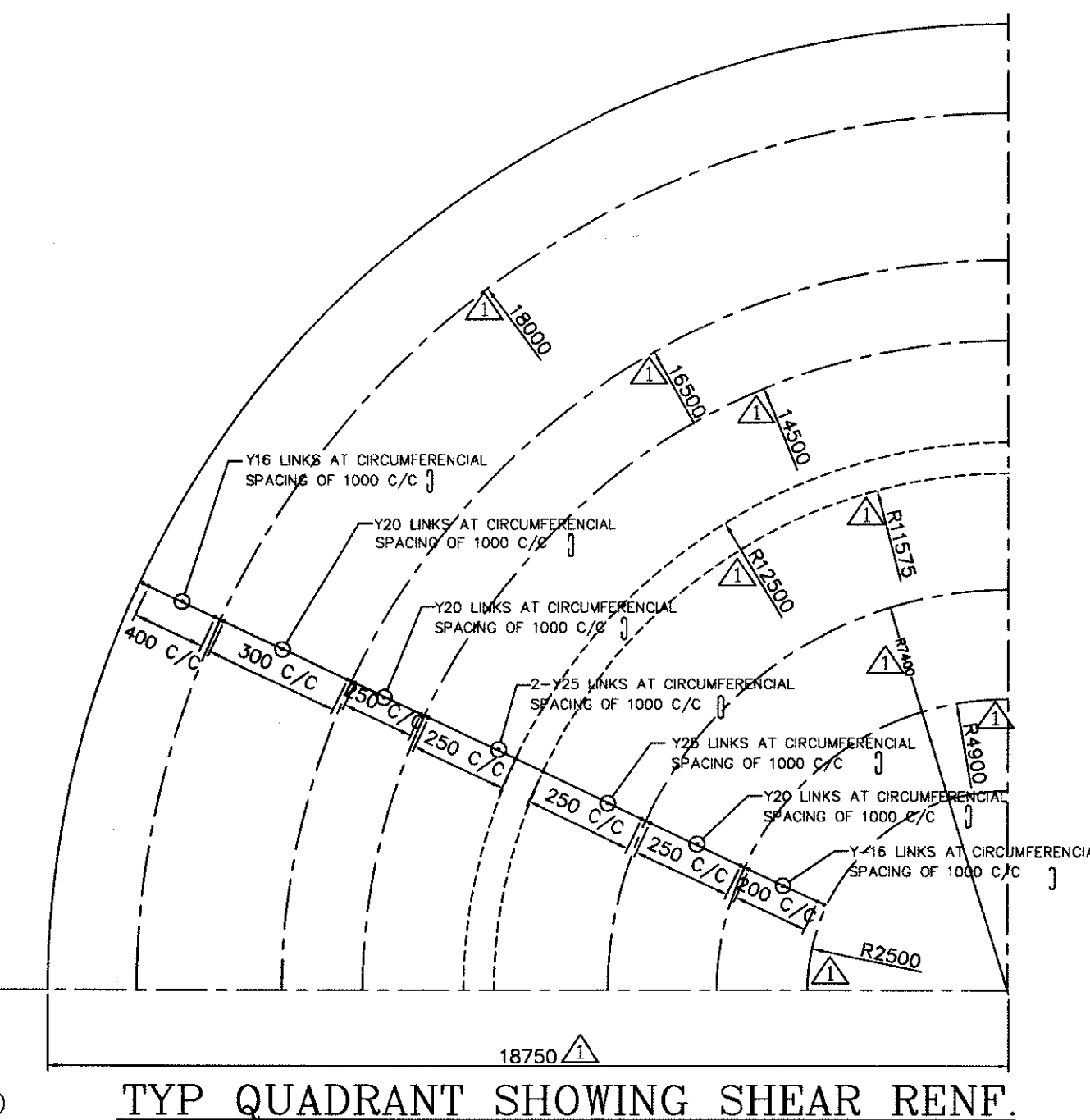
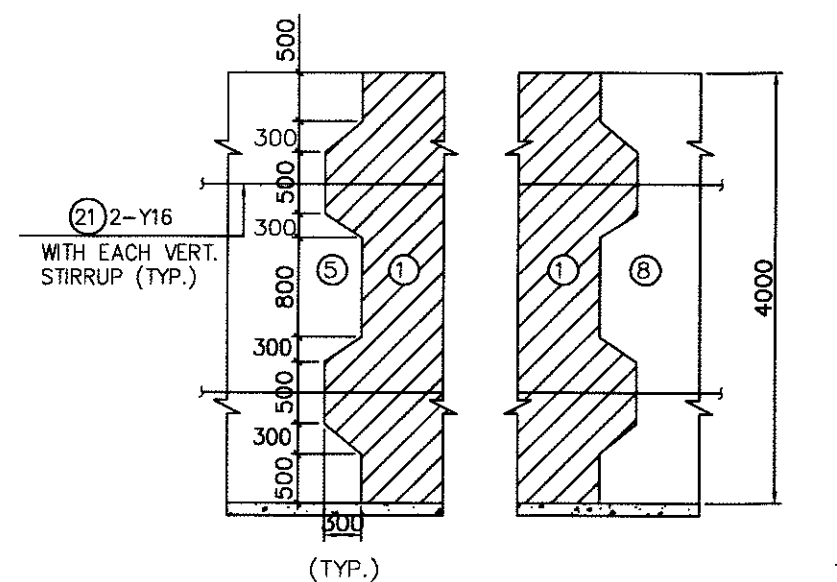
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|---|------------|-------------|---|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|--|
| JOB NO. | 281 | OWNER | GSECL GUJARAT STATE ELECTRICITY CORPORATION LTD. | | | | | | | | | | | | | | | | | | | | | | |
| STATUS | CONTRACT | PROJECT | 2 X 250 MW SIKKA THERMAL POWER PROJECT (EXTENSION UNITS 3 & 4) DIST. JAMNAGAR | | | | | | | | | | | | | | | | | | | | | | |
| DISTRIBUTION | | CONSULTANTS | TCE CONSULTING ENGINEERS LTD, BANGALORE | | | | | | | | | | | | | | | | | | | | | | |
| PRINT SCALE IN METRE | 0 20 40 80 | DEPT | BHARAT HEAVY ELECTRICALS LTD POWER SECTOR PROJECT ENGINEERING MANAGEMENT NEW DELHI | | | | | | | | | | | | | | | | | | | | | | |
| REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | |
| 1 | 14.02.2011 | | | | | | | | | | | | | | | | | | | | | | | | |
| TITILE: CHIMNEY GA OF FOUNDATION AND DETAILS OF STARTER BARS CIVIL ELEC C&I MSE MAX DEPT. SCALE 1:125 DRAWING NO. PE-DG-281-620-C002 SIGN DATE SHEET 1 OF 1 REV. 1 | | | | | | | | | | | | | | | | | | | | | | | | | |

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|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|------|------|------|-----|------|
| REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD | REV. | DATE | ALTD | CHD | APPD |
| | | | | | | | | | | | | | | | | | | | | | | | | |

800C-029-281-620-C000
DRAWING NO. PE-DG-281-620-C000(SHEET-2)



| BILL OF MATERIAL | |
|------------------|-----------------|
| MATERIAL | QUANTITY |
| CONCRETE M35 | 4350 Cum. |
| PCC | 150 Cum. |
| REINFORCEMENT | 425 MT(approx.) |



- NOTES
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS/ELEVATIONS IN METRES.
 - EL ± 0.000 CORRESPONDS TO RL 10.5 M.
 - ADEQUATE NUMBER OF STRONG CHAIRS SHALL BE PROVIDED TO ACCURATELY PLACE THE REINFORCEMENT AND MAINTAIN THEM IN CORRECT POSITION DURING PLACING AND COMPACTING OF CONCRETE.
 - LAPS SHOWN ARE INDICATIVE AND SHALL BE STAGGERED.
 - MINIMUM CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS :-
(a) SIDES = 50 mm.
(b) TOP = 75 mm.
(c) BOTTOM = 100 mm.
 - APPROPRIATE MIX DESIGN SHALL BE FOLLOWED FOR CONCRETING OF FOUNDATION.
 - FOR FILE REINFORCEMENT EMBEDMENT DETAILS REFER DWG NO.-PE-DG-281-620-C002(SH-A)
 - FOR OTHER NOTES REFER DWG NO PE-DG-281-620-C001.

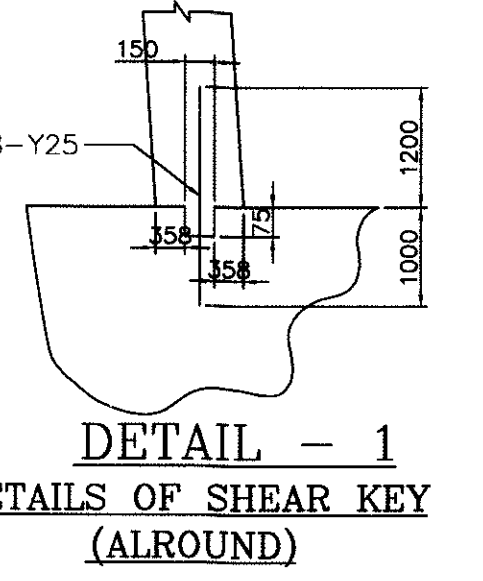
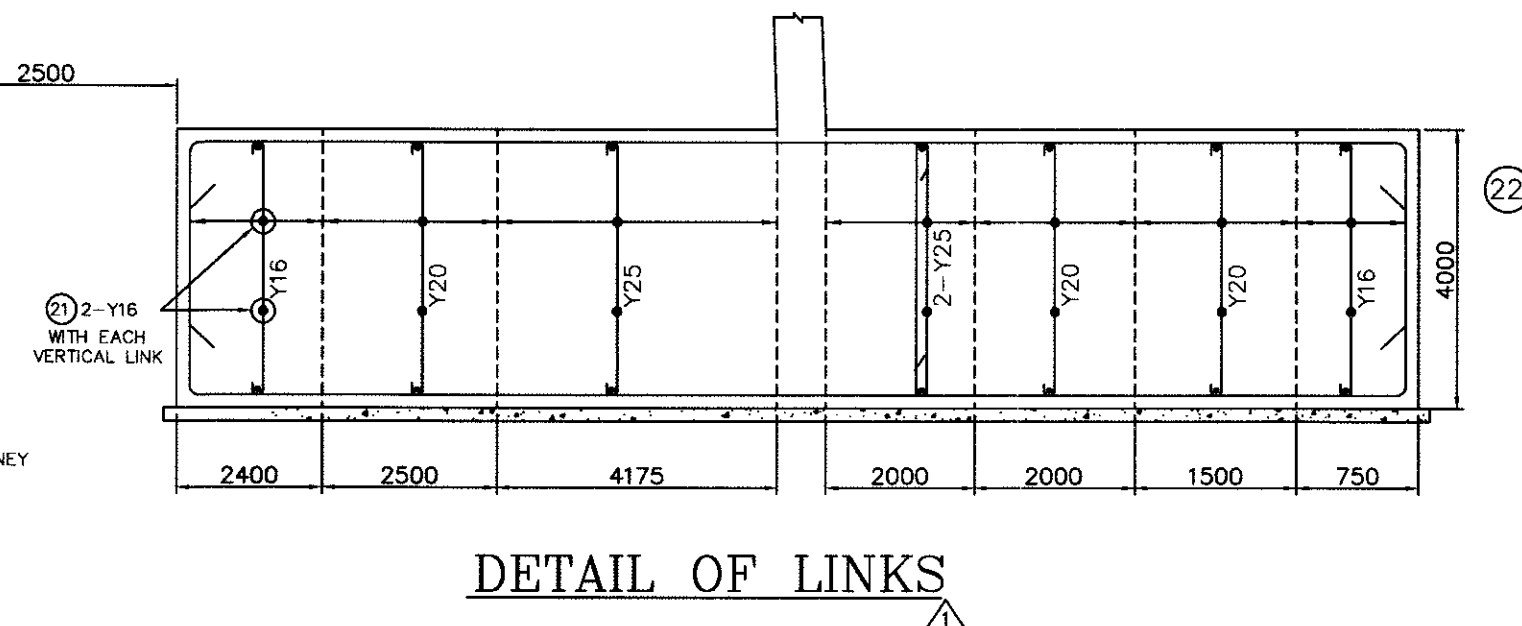
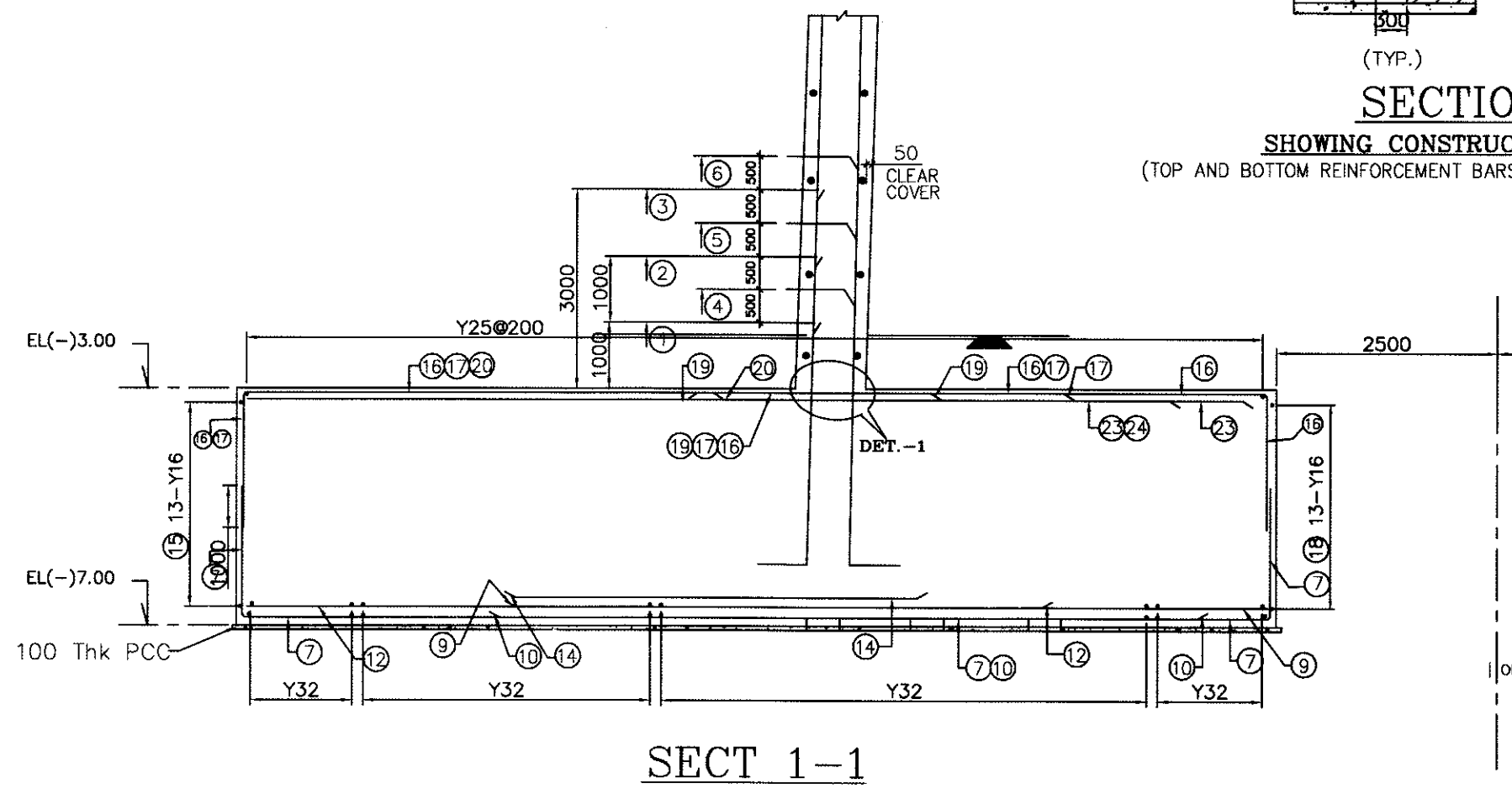
ENGG REF DWG
1. GENERAL ARRANGEMENT-----PE-DG-281-620-C001

CONST REF DWG
1. G.A. OF FOUNDATION AND DETAILS OF STARTER BARS -----PE-DG-281-620-C002
2. SHELL PROFILE & MAIN REINFORCEMENT DETAIL -----PE-DG-281-620-C004

- LEGEND
- 110-Y25 --- DIA OF BARS (MM)
 - NUMBER OF BARS
 - 32Y-250 --- BAR SPACING(MM)
 - DIA OF BARS (MM).

BHEL-PROJECT ENGINEERING MANAGEMENT (CIVIL)
THIS DRAWING IS RELEASED FOR COMMENTS/APPROVAL
STAMP ALL PREVIOUS REVISION AS SUPERSEDED

| NAME | MP | ISSUED BY |
|-----------|------------|-----------|
| Sd/- | | |
| SIGNATURE | | |
| DATE | 14/02/2011 | |



| | | | |
|----------------------|---|---|---|
| JOB NO. | 281 | OWNER | GSECL GUJARAT STATE ELECTRICITY CORPORATION LTD. |
| STATUS | CONTRACT | PROJECT | 2 X 250 MW SIKKA THERMAL POWER PROJECT (EXTENSION UNITS 3 & 4) DIST. JAMNAGAR |
| DISTRIBUTION | | CONSULTANTS | TCE CONSULTING ENGINEERS LTD, BANGALORE |
| PRINT SCALE IN METRE | 0 24 48 96 192 384 768 1536 3072 6144 12288 | BHARAT HEAVY ELECTRICALS LTD | DEPT CODE C |
| REV. 01 | DATE 14.02.11 | POWER SECTOR PROJECT ENGINEERING MANAGEMENT NEW DELHI | DRN DRS -sd- 06.01.2011 DESN LP -sd- 03.01.2011 CHD MP -sd- 07.01.2011 APPD RK -sd- 10.01.2011 |
| TITLE | | CHIMNEY REINFORCEMENT DETAILS OF CHIMNEY RAFT | |
| DEPT. SCALE 1:125 | | DRAWING NO. PE-DG-281-620-C003 | |
| SIGN | | SHEET 1 OF 2 REV. 1 | |
| DATE | | DATE | |

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Fold-1