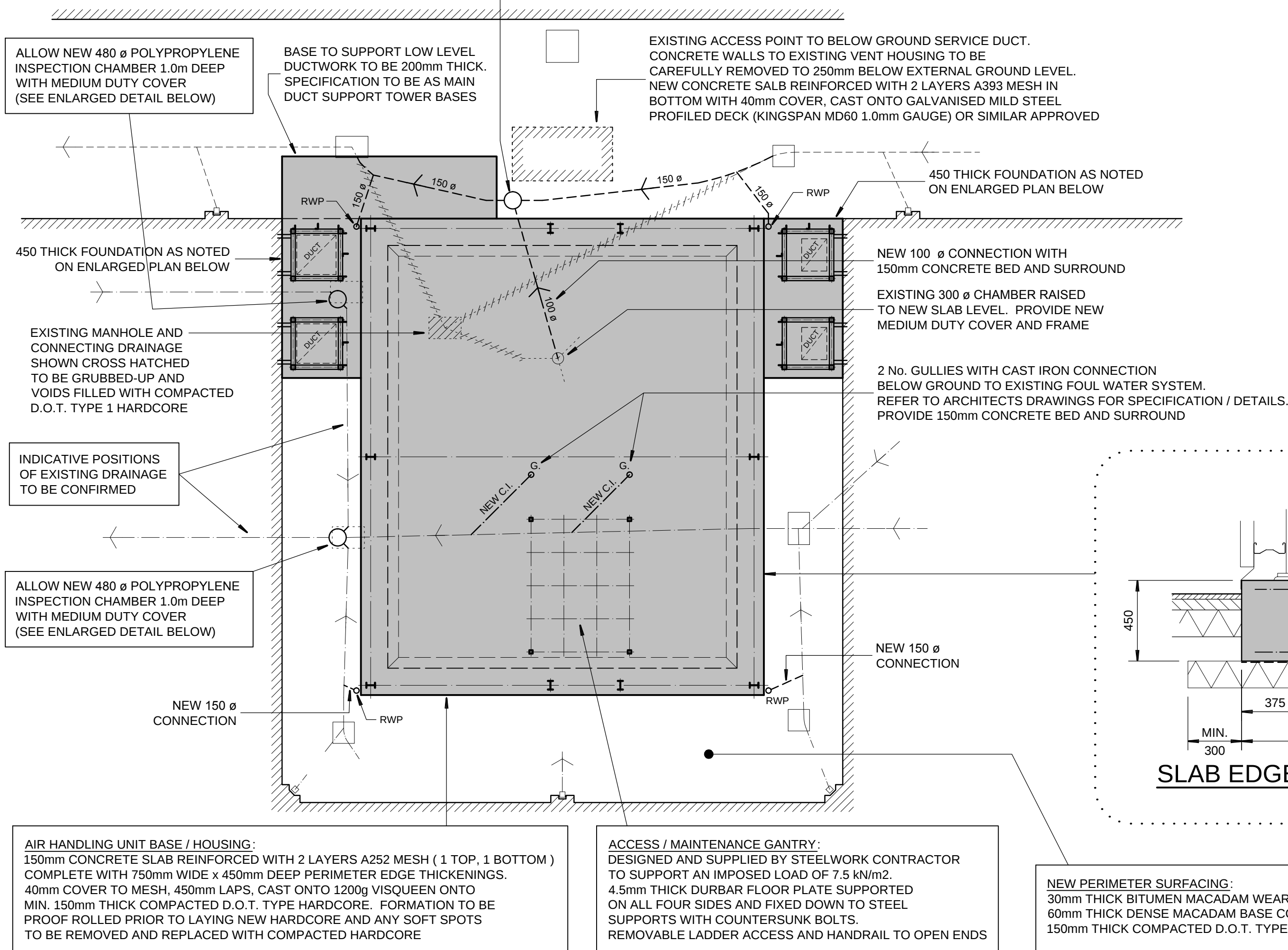


NOTE: NEW DRAINAGE WORKS / DIVERSIONS
ARE TO BE CONFIRMED SUBJECT TO FINDINGS
FROM BELOW GROUND DRAINAGE SURVEY

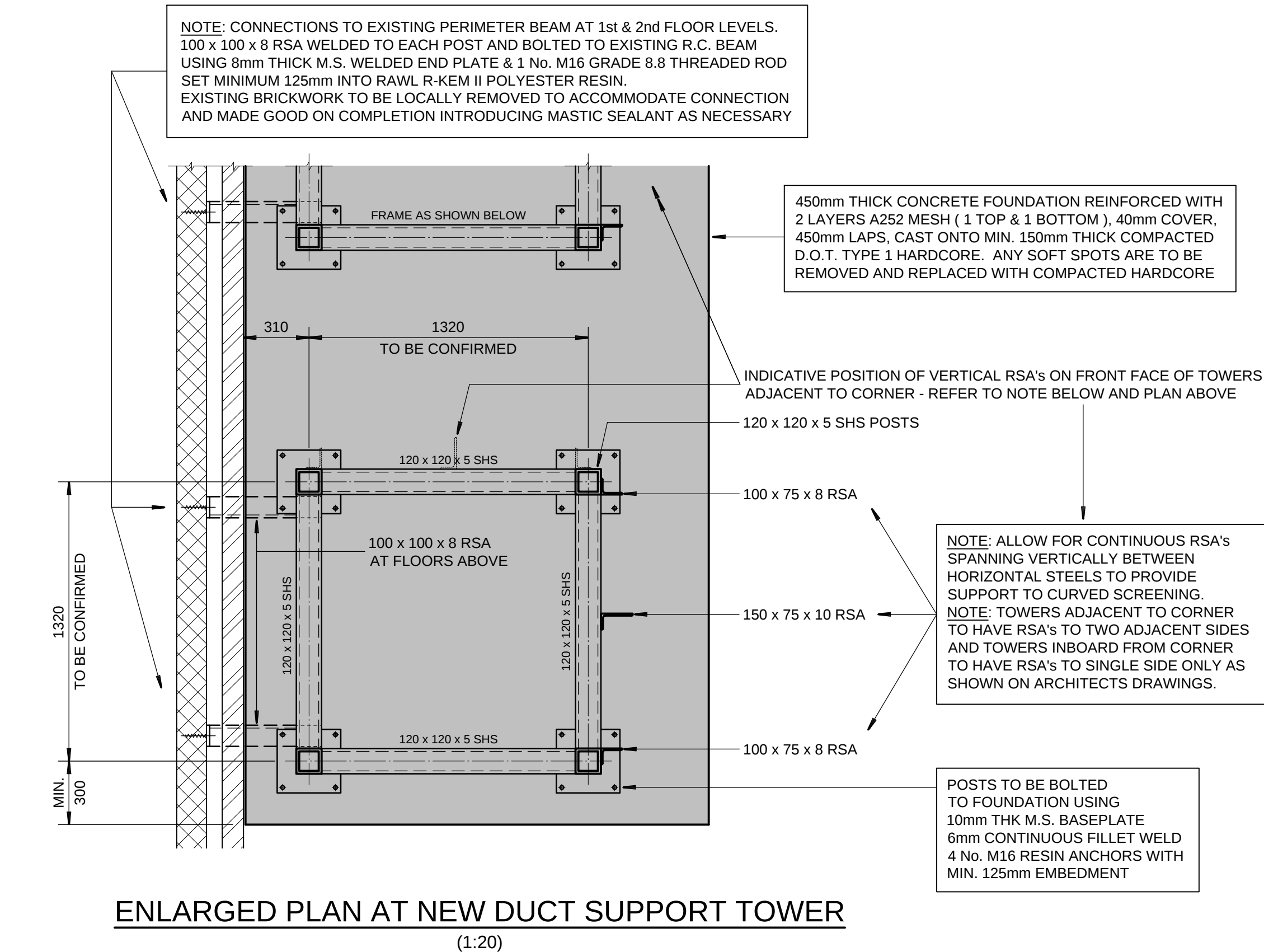
ALLOW NEW 480 Ø POLYPROPYLENE
INSPECTION CHAMBER 1.0m DEEP
WITH MEDIUM DUTY COVER
(SEE ENLARGED DETAIL BELOW)

NOTE: ALL STEELWORK TO BE HOT DIP GALVANISED



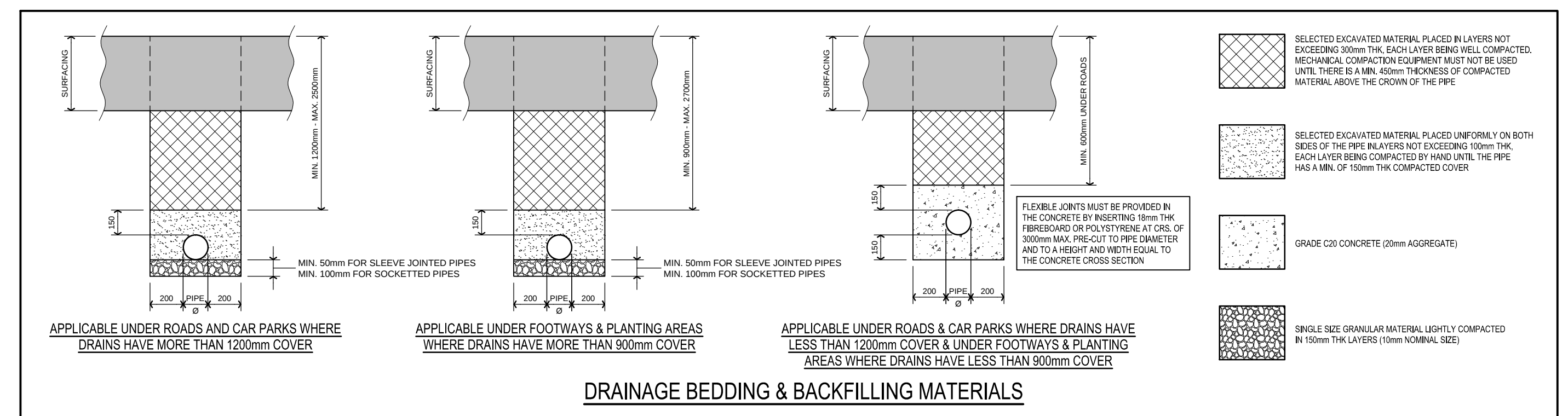
PLAN SHOWING POSITIONS OF NEW VERTICAL DUCT
SUPPORT TOWERS & A.H.U. BASES / HOUSING

(1:100)



ENLARGED PLAN AT NEW DUCT SUPPORT TOWER

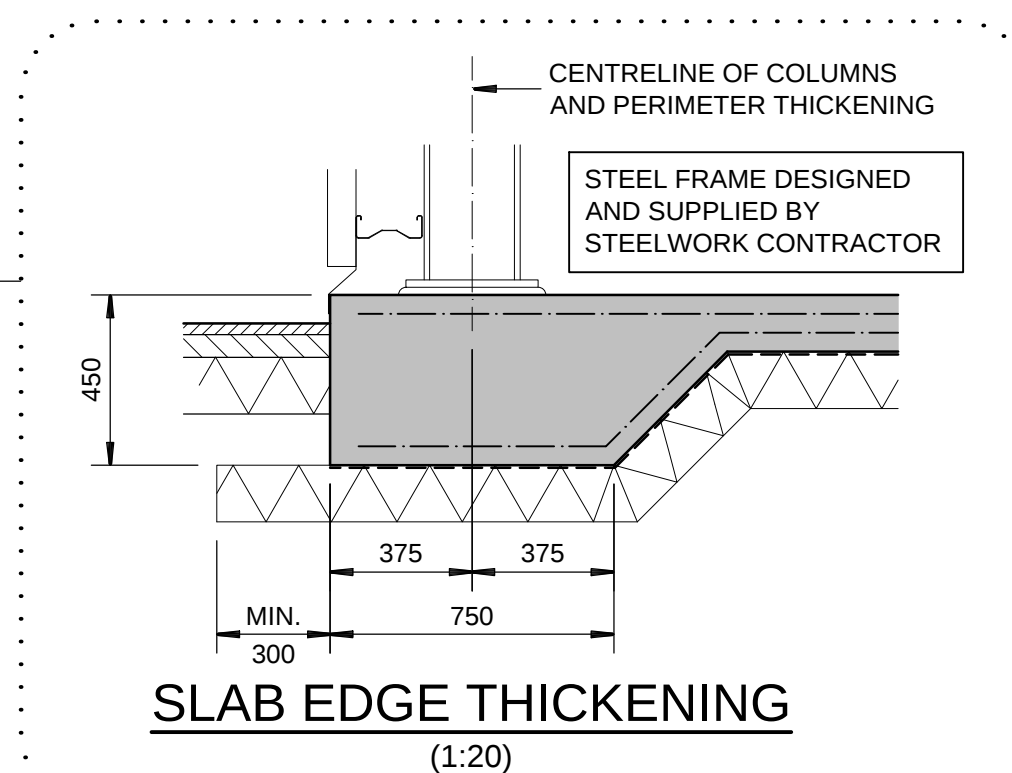
(1:20)



DRAINAGE BEDDING & BACKFILLING MATERIALS

NOTE: 120 x 120 x 5 SHS TO BE FULLY WELDED FRAME WITH 6mm CONTINUOUS BUTT WELDS. POSITIONS AND DETAILS OF SPLICES ARE TO BE AGREED WITH STEELWORK CONTRACTOR, ADOPTING SPIGGOT CONNECTIONS

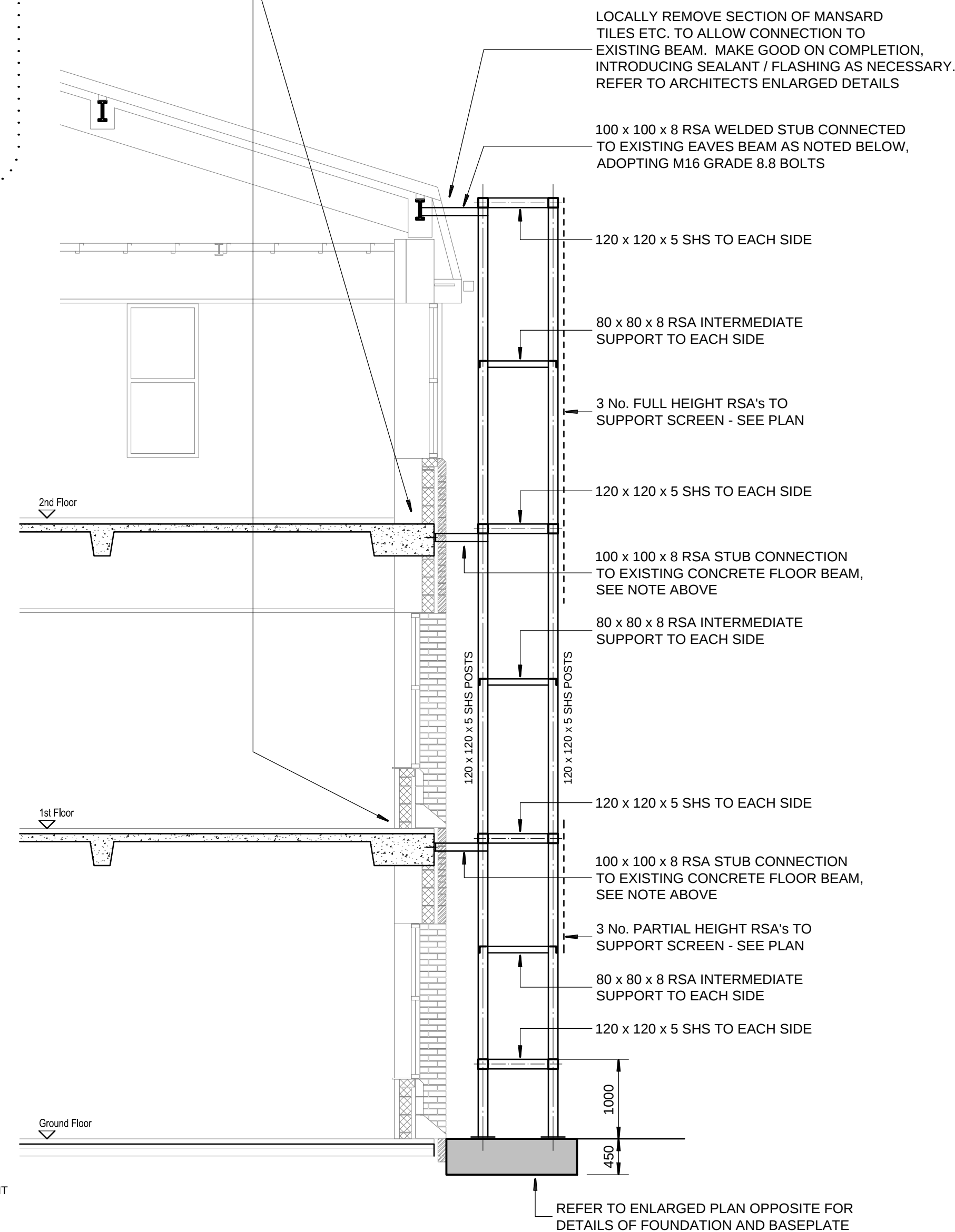
**NOTE: CONTRACTOR / STEELWORK SUB-CONTRACTOR
TO CARRY OUT SITE SURVEY TO DETERMINE VERTICAL
HEIGHTS FROM FOUNDATION TO EAVES LEVEL PRIOR
TO MANUFACTURE OF NEW STEELWORK**



SLAB EDGE THICKENING

(1:20)

NOTE: CONNECTIONS TO EXISTING PERIMETER BEAM AT 1st & 2nd FLOOR LEVELS. 100 x 100 x 8 RSA WELDED TO EACH POST AND BOLTED TO EXISTING R.C. BEAM USING 8mm THICK M.S. WELDED END PLATE & 1 No. M16 GRADE 8.8 THREADED ROD SET MINIMUM 125mm INTO RAWL R-KEM II POLYESTER RESIN. EXISTING BRICKWORK TO BE LOCALLY REMOVED TO ACCOMMODATE CONNECTION AND MADE GOOD ON COMPLETION INTRODUCING MASTIC SEALANT AS NECESSARY



SECTION THROUGH NEW DUCT SUPPORT TOWER

(1:50)

GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT BLAD & SWIFT AND ARCHITECTS' DRAWINGS.
2. **STEELWORK**
3. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH NATIONAL STRUCTURAL STEELWORK SPECIFICATION & RELEVANT STANDARDS.
4. HOT ROLLED STEELWORK TO BE DESIGNATION S275 TO BS EN 10025.
5. SURFACE PREPARATION AND PAINTING TO BE IN ACCORDANCE WITH BS EN ISO 12944 AND BS EN 10210 (HOT FINISHED STRUCTURAL HOLLOW SECTIONS).
6. **INTERNAL STEELWORK**
7. SHOT BLAST TO SA2½ AND APPLY 1 COAT ZINC PHOSPHATE PRIMER IN THE SHOP TO A NOMINAL FILM THICKNESS OF 80 MICRONS PER COAT.
8. ANY DAMAGE TO BE TOUCHED UP ON SITE.
9. **CONCEALED STEELWORK**
10. ANY STEELWORK WHICH WILL BE CONCEALED BY CONCRETE IS TO BE PAINTED WITH FURTHER TWO COATS OF HIGH BUILD BITUMINOUS PAINT ON SITE TO A NOMINAL DRY FILM THICKNESS OF 100 MICRONS PER COAT.
11. STEELWORK WHICH WILL BE IN CONTACT WITH THE OUTER LEAF IS TO BE HOT DIP GALVANISED AS NOTED BELOW OR HAVE TWO COATS OF HEAVY DUTY BITUMEN.
12. **GALVANISED STEELWORK WHERE APPLICABLE (SEE PLANS)**
13. HOT DIP GALVANISE TO BS EN 1461. ANY DAMAGE IS TO BE REPAIRED ON SITE. WHERE A POINT FINISH IS REQUIRED, AN ETCH PRIMER MUST BE USED.
14. **POINT FINISHES**
15. FINAL POINT FINISHES ARE TO BE TO ARCHITECTS SPECIFICATION AND AN APPROVED TRADESMAN IS TO BE CHECKED WITH THE MANUFACTURER.
16. **BOLT & NUT TREATMENT**
17. INTERVAL BOLTS ARE TO BE SHERARDIZED.
18. CONCEALED BOLTS ARE TO BE SHERARDIZED AND HAVE THE SAME SITE APPLIED PAINT FINISH AS THE STEEL.
19. BOLTS IN GALVANISED STEELWORK ARE TO BE HOT DIP GALVANISED ALSO.
20. ALL STEELWORK BELOW GROUND LEVEL IS TO BE ENCASED IN MINIMUM 150mm CONCRETE (RC35 DESIGNATED MIX).
21. CONNECTIONS BETWEEN MILD STEEL AND STAINLESS STEEL ARE TO HAVE NEOPRENE SEPARATING WASHERS TO PREVENT ELECTROLYTIC ACTION.
22. STEELWORK CONTRACTOR IS TO SUBMIT FABRICATION DRAWINGS FOR BLAD & SWIFT FOR COMMENTS PRIOR TO FABRICATION.
23. WHERE APPLICABLE, STEELWORK CONTRACTOR TO ATTEND SITE AND PROVIDE DIMENSIONAL MEASUREMENTS PRIOR TO FABRICATION.
24. **CONCRETE**
25. ALL MATERIALS AND WORKMANSHIP TO COMPLY WITH BS8110 'STRUCTURAL USE OF CONCRETE' BS8500 'SPECIFICATION OF CONCRETE' CONCRETE TO BE MIN. GRADE C35.
26. MIN. CP/C CONTENT 330 Kg/m³.
27. 5% AIR ENTRAINING AGENT.
28. CONCRETE TO BE THOROUGHLY COMPACTED WITH VIBRATING POKER TO PREVENT THE OCCURRENCE OF ANY AIR VOIDS.
29. **REINFORCEMENT**
30. ALL REINFORCEMENT TO BE HIGH YIELD TYPE B500A, B500B OR B500C RIBBED BARS IN ACCORDANCE WITH BS4449:2005.
31. ALL REINFORCEMENT SHALL BE ACCURATELY LOCATED AND SECURELY FIXED IN POSITION USING APPROVED SPACERS AND THE WIRES SO AS TO ENSURE NO MOVEMENT DURING THE PLACING OF CONCRETE.
32. MINIMUM COVER TO BE 40mm.

B	UPDATED TO SUIT REVISED ARCHITECTURAL LAYOUT.	3-1-18
A	FURTHER NOTES & DETAILS ADDED.	5-12-17
REV.	REVISION DESCRIPTION	DATE
DRG. STATUS:		TENDER
CLIENT MID-YORKSHIRE NHS TRUST		
Bland and Swift CONSULTING STRUCTURAL & CIVIL ENGINEERS Ripley Lodge, 19 Lower Wortley Road, Leeds LS12 4RY Tel: +44 (0) 113 231 0999 e-mail: mail@blandswift.com		
JOB DEWSBURY HOSPITAL REFURB. TO WARDS 12, 14 & 15		
TITLE STRUCTURAL WORKS TO SUPPORT SERVICE DUCTS & A.H.U.		
SCALE at A1 1:100, 1:50, 1:25 & 1:20		DRAWN BY DB
DATE NOV 2017		CHECKED AC
DRG. No.	11691 - 02 B	