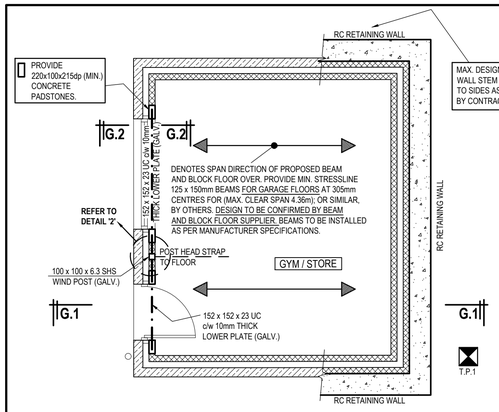
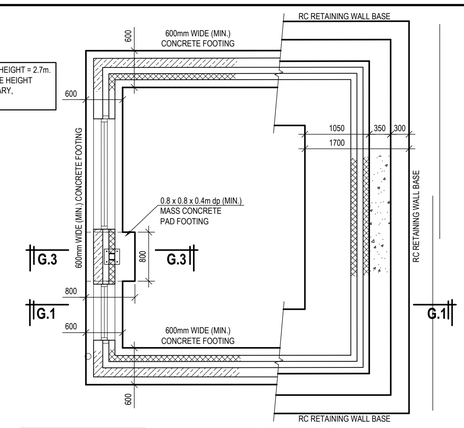


NOTE:
ALL SETTING-OUT AND RELATIVE LEVELS etc. TO BE CONFIRMED BY ARCHITECT / BUILDER.

PROPOSED GYM / STORE PLAN SHOWING STRUCTURE OVER

SCALE 1:50

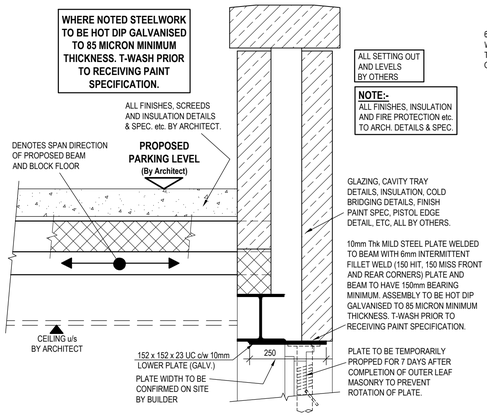


NOTE:
ALL SETTING-OUT AND RELATIVE LEVELS etc. TO BE CONFIRMED BY ARCHITECT / BUILDER.

PROPOSED FOUNDATIONS PLAN SHOWING STRUCTURE OVER

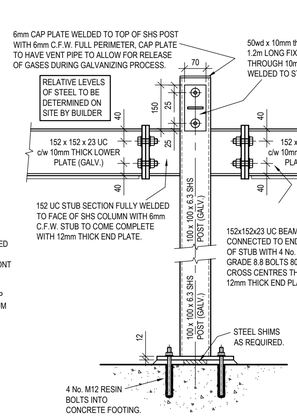
SCALE 1:50

WHERE NOTED STEELWORK TO BE HOT DIP GALVANISED TO 85 MICRON MINIMUM THICKNESS. T-WASH PRIOR TO RECEIVING PAINT SPECIFICATION.



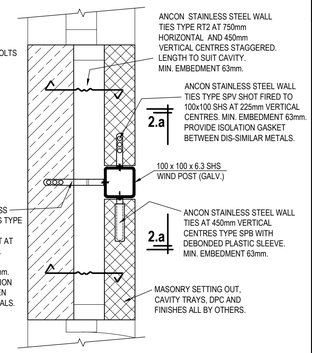
SECTION 'G.2 - G.2' THROUGH 152x152x23 UC BEAM AND PLATE

SCALE 1 : 10



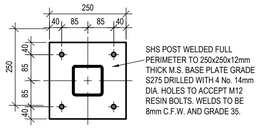
SECTION '2.a - 2.a' SECTIONAL ELEVATION ON 100x100x6.3 SHS POST

SCALE 1 : 10



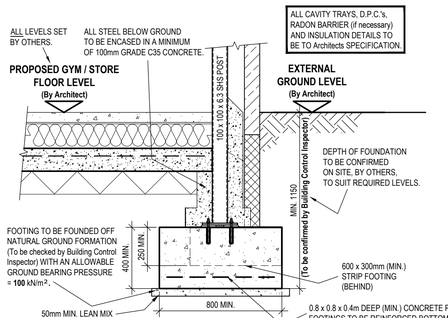
DETAIL '2' MASONRY TIE TO 100 SHS POST

SCALE 1 : 10



100x100x6.3 SHS BASEPLATE DETAIL

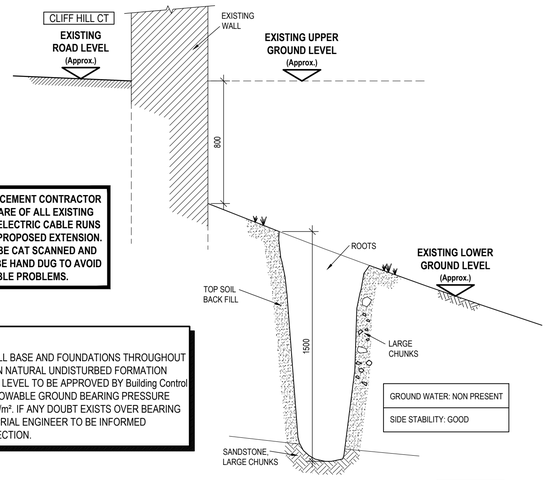
SCALE 1 : 10



SECTION 'G.3 - G.3' THROUGH PAD FOUNDATION

SCALE 1:20

PRIOR TO COMMENCEMENT CONTRACTOR TO BE FULLY AWARE OF ALL EXISTING DRAIN / SERVICE / ELECTRIC CABLE RUNS ACROSS AREA OF PROPOSED EXTENSION. WHOLE AREA TO BE CAT SCANNED AND EXCAVATIONS TO BE HAND DUG TO AVOID ANY POSSIBLE PROBLEMS.

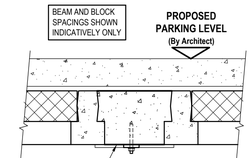


SECTION THROUGH TRIAL HOLE '1'

SCALE 1:20

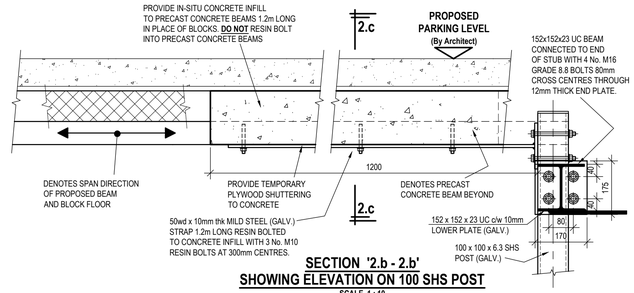
ALL DIMENSIONS APPROXIMATE

NOTE:
ALL RETAINING WALL BASE AND FOUNDATIONS THROUGHOUT TO BE FOUNDED ON NATURAL UNDISTURBED FORMATION LEVEL, FORMATION LEVEL TO BE APPROVED BY Building Control Officer WITH AN ALLOWABLE GROUND BEARING PRESSURE OF AT LEAST 100kN/m². IF ANY DOUBT EXISTS OVER BEARING CAPACITY OF MATERIAL ENGINEER TO BE INFORMED TO ARRANGE INSPECTION.



SECTION '2.c - 2.c'

SCALE 1:10



SECTION '2.b - 2.b' SHOWING ELEVATION ON 100 SHS POST

SCALE 1 : 10

NOTE:
ALL CAVITY TRAYS, D.P.C.'s, RADON BARRIER (if necessary) AND INSULATION DETAILS TO BE To Architects SPECIFICATION.

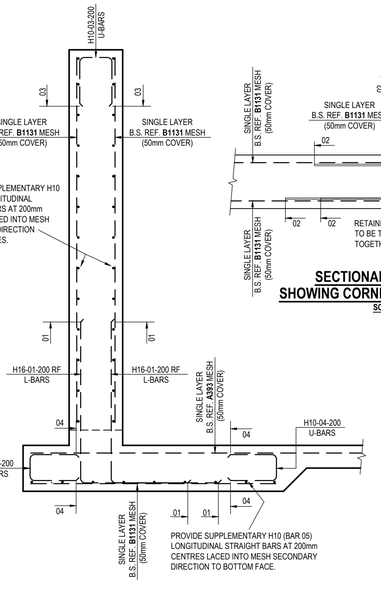
ALL QUANTITIES GIVEN IN BENDING SCHEDULE ARE BASED ON APPROX. 10m WALL LENGTH, TO BE CONFIRMED BY CONTRACTOR

BENDING SCHEDULE

TO BS8666:2005

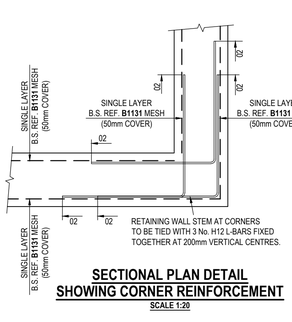
PROJECT REFERENCE	29 CLIFFROAD, HOLMIRTH, HD9 1UY	SCHEDULE NUMBER	2025 / 202 / 10 Sht 01
PROJECT NUMBER	2025 / 202	DATE PREPARED	22nd SEPTEMBER 2025
		DATE REVISED	-

MEMBER	BAR MARK	TYPE AND SIZE	NO. OF MBRS	NO. BARS IN EACH	TOTAL NO.	LENGTH OF EACH BAR (mm)	SHAPE CODE	A mm	B mm	C mm	D mm	E/R mm	Rev
R.C. RETAINING WALL & BASE	01	H16	1		100	1800	11	700					
	02	H12	1		84	1600	11	800					
	03	H10	1		50	800	21	300	210				
	04	H10	1		75	750	21	300	170				
	05	H10	1		105	3500	00	3500	CUT ON SITE				
	PROVIDE 9 No. SHEETS (4.8m x 2.4m) OF B.S. REF. B1131 MESH (includes allowance for laps & wastage)												
	PROVIDE 4 No. SHEETS (4.8m x 2.4m) OF B.S. REF. A393 MESH (includes allowance for laps & wastage)												



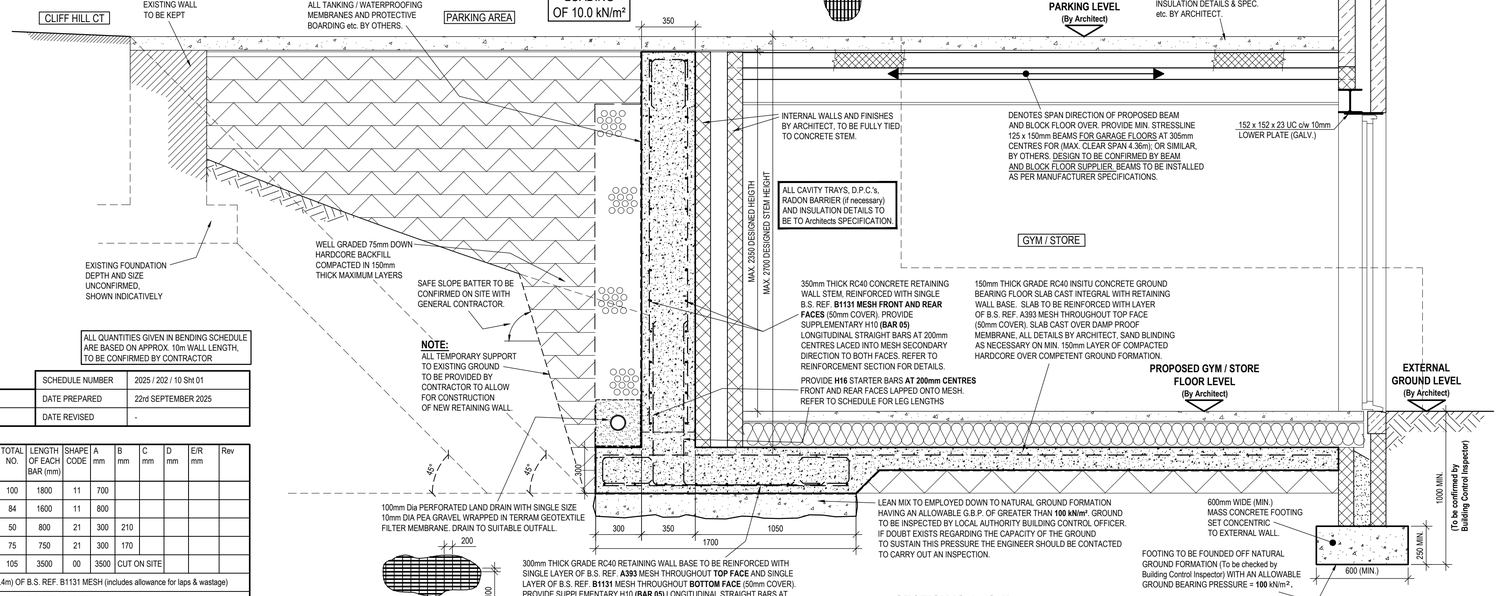
SECTION THROUGH PROPOSED RETAINING WALL SHOWING REINFORCEMENT

SCALE 1 : 20



SECTIONAL PLAN DETAIL SHOWING CORNER REINFORCEMENT

SCALE 1:20



SECTION 'G.1 - G.1' THROUGH PROPOSED GYM

SCALE 1 : 20

DRAWING STATUS
BUILDING REGULATIONS

SHEET SIZE
A1

CONSTRUCTION NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL NECESSARY ARCHITECT'S AND ENGINEERS DRAWINGS AND THE STRUCTURAL CALCULATIONS.

2. ALL CRITICAL & KEY DIMENSIONS ARE TO BE TAKEN ON SITE BEFORE WORK COMMENCES.
ALL SETTING-OUT AND RELATIVE LEVELS etc. ARE TO BE ASCERTAINED BY BUILDER / FABRICATOR FROM ARCHITECTS SETTING-OUT INFORMATION AND ON SITE PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE FROM THIS DRAWING. SETTING-OUT & LEVELS REMAIN THE RESPONSIBILITY OF THE BUILDER / FABRICATOR AND **NOT** 'SGM STRUCTURAL DESIGN'. IF ANY DOUBT EXISTS THEN ARCHITECT MUST BE NOTIFIED.

3. WALLS AND FLOORS TO BE PACKED TIGHT OFF SUPPORTING BEAM TOP FLANGE USING BLUE SLATES OR STEEL SHIMS AND SEMI-DRY NON SHRINK MORTAR.

4. STEEL BEAMS TO BE GRADE S275, ALL STRUCTURAL HOLLOW SECTIONS TO BE GRADE S355J2H TO BS EN 10210 (HOT FINISHED). STEEL BEAMS TO BE THOROUGHLY CLEANED BEFORE PAINTING WITH PRIMER TO A MINIMUM THICKNESS OF 75 MICRONS.

5. ALL STEELWORK MUST BE ADEQUATELY CERTIFIED WITH ALL CORRECT AND UP TO DATE **C.E. MARKING** AND ALL IN ACCORDANCE WITH EXECUTION CLASS 2 TO BS EN 1090 AS A MINIMUM REQUIREMENT.

6. WHERE NOTED STEELWORK TO BE BLAST CLEANED TO SA2.5 AND HOT DIPPED GALVANISED TO A MINIMUM THICKNESS OF 85 MICRONS TO BS 729. GALVANISED STEELWORK TO BE 'T'-WASHED PRIOR TO APPLYING FINISH PAINT SPECIFICATION. ALL BOLTS TO BE HOT DIP SPUN GALVANISED WITH NUTS RETHREADED. FINAL TOP COAT PAINTING AND FIRE PROTECTION TO BE TO THE ARCHITECT'S SPECIFICATION. ALL STEEL BELOW GROUND TO BE ENCASED IN A MINIMUM OF 100mm GRADE C35 CONCRETE.

7. ALL PRECAST CONCRETE LINTELS AND STEEL BEAMS WITH BEARING ONTO MASONRY ARE TO HAVE A MINIMUM BEARING OF 150mm.

8. ALL PADSTONES TO BE MINIMUM GRADE C35 CONCRETE CAST INSITU WITH THE TOP TROWELLED SMOOTH. STEEL SHIMS, 150mm x 100mm x VARYING THICKNESSES, ARE TO BE PLACED MID-WAY ALONG THE LENGTH OF THE PADSTONE WITH THE BEAM BEARING A MINIMUM OF 100mm ONTO THE SHIMS. ALTERNATIVELY USE CUT DOWN PRECAST CONCRETE LINTELS BEDDED ON MORTAR. WALL TO BE MADE GOOD AROUND BEAM END WITH INSITU CONCRETE CAST INTO THE WEB. WHERE DRILLING OF PADSTONES TO ACCEPT RESIN ANCHOR BOLTS IS REQUIRED ADOPT CAST INSITU CONCRETE WITH PREFORMED HOLES FOR BOLTS.

9. FIRE PROTECTION TO THE STEELWORK (REQUIREMENT TO BE CONFIRMED BY LOCAL BUILDING CONTROL OFFICER) TO BE TO THE ARCHITECT'S SPECIFICATION. PROVIDE A MINIMUM OF TWO LAYERS OF 12.5mm PLASTERBOARD, OR GYPROC FIRELINE BOARD PLUS ONE LAYER OF 12.5mm PLASTERBOARD.

FOUNDATIONS NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL STRUCTURAL AND ARCHITECTURAL DRAWINGS.

2. ALL KEY DIMENSIONS ARE TO BE TAKEN ON SITE BEFORE WORK COMMENCES.

3. CONCRETE AND WORKMANSHIP TO BE IN ACCORDANCE WITH BS 8110, BS 8500 AND ANY RELEVANT N.B.S. CLAUSES.

4. CONCRETE TO BE A DESIGNED MIX SUPPLIED IN ACCORDANCE WITH THE RELEVANT CLAUSES OF BS 8500 PARTS 1 AND 2: 2002. MIX DESIGNS TO BE SUBMITTED FOR ACCEPTANCE PRIOR TO COMMENCEMENT OF WORK.

5. CONCRETE TO RETAINING WALL TO BE GRADE C32/40 HAVING A MINIMUM CHARACTERISTIC STRENGTH OF 40N/mm², A MINIMUM PORTLAND CONTENT OF 300 kg/m³. CONSISTENCY CLASS TO BE S3 AND A MAXIMUM FREE WATER:CEMENT RATIO OF 0.55. MAXIMUM AGGREGATE SIZE TO BE 20mm TO BS882.
BLINDING CONCRETE TO BE GRADE C12/15, HAVING A MINIMUM CHARACTERISTIC STRENGTH OF 15N/mm², AND A MAXIMUM CEMENT CONTENT OF 200kg/m³.

6. CONCRETE TO MASS BASES AND FOOTINGS (UNLESS NOTED OTHERWISE) TO BE GRADE C25/30 HAVING A MINIMUM CHARACTERISTIC STRENGTH OF 30N/mm², A MINIMUM PORTLAND CEMENT CONTENT OF 260kg/m³ AND A MAXIMUM FREE WATER:CEMENT RATIO OF 0.65. MAXIMUM AGGREGATE SIZE TO BE 20mm TO BS 882. CONSISTENCY CLASS TO BE S3.
BLINDING CONCRETE TO BE GRADE C12/15, HAVING A MINIMUM CHARACTERISTIC STRENGTH OF 15N/mm², AND A MAXIMUM CEMENT CONTENT OF 200kg/m³.

7. BASES TO BE FOUNDED ON UNDISTURBED NATURAL GROUND HAVING AN ALLOWABLE GROUND BEARING PRESSURE OF --kN/m². FORMATION TO BE INSPECTED BY THE ENGINEER PRIOR TO CONCRETING. OBTAIN ENGINEER'S GUIDANCE IF THE REQUIRED ALLOWABLE BEARING PRESSURE IS NOT ACHIEVED AT ANTICIPATED DEPTHS. SOFT SPOTS, ORGANIC MATERIAL OR CONTAMINATED GROUND FOUND AT FORMATION LEVEL TO BE REMOVED ONLY AFTER INSPECTION BY ENGINEER.

8. DO NOT ALLOW EXCAVATED GROUND SURFACES TO DETERIORATE THROUGH EXPOSURE TO STANDING WATER OR THE WEATHER.

9. WALLS MUST NOT BE BACKFILLED UNTIL GROUT AND MORTAR HAS REACHED DESIGN STRENGTH. TYPICALLY 14 DAYS AFTER PLACING GROUT. DO NOT USE HEAVY VIBRATING EQUIPMENT CLOSE TO THE REAR OF THE WALL.

10. MESH REINFORCEMENT TO BE IN ACCORDANCE WITH B.S. 4483 WITH MINIMUM 350mm LAPS.

11. BAR REINFORCEMENT TO BE IN ACCORDANCE WITH B.S. 4449 AND BS 8666 AND TO HAVE MINIMUM COVER OF 50mm. MINIMUM LAPS TO BE 40xBAR DIAMETER. Eg. FOR H16's LAP = 640mm.

11. MOVEMENT JOINTS TO BE PROVIDED FOR THE FULL THICKNESS OF THE STEM AT A MAXIMUM OF 6m CENTRES BUT TO SUIT ARCHITECTURAL FEATURES. JOINTS TO BE 20mm WIDE FILLED WITH SOFT COMPRESSIBLE BOARD AND SEALED EACH FACE WITH 20mm x 20mm FILLET OF 2 PART POLYSULPHIDE SEALANT.

Revision	Date	By	Chk
-	-	-	-

SGM STRUCTURAL DESIGN
SPRINGFIELD LODGE, 4 THORNHILL ROAD, HUDDERSFIELD, HD3 3AU
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PROJECT
29 CLIFF ROAD HOLMFIRTH HD9 1UY

TITLE
PROPOSED PARKING SPACE PLAN, SECTIONS AND DETAILS

Project No.	Drawing No.	Revision
2025 / 202	10	-
Date Drawn	**Drawn By**	**Checked By**
17 / 09 / 25	KB	DF