

PROCEDURE FOR UNDERPINNING:

STEP 1:
CONTRACTOR TO EXCAVATE IN RESTRICTED AREAS AS SHOWN IN STAGE 1 DRAWINGS. TO EXPOSE THE EXISTING FOUNDATIONS ONLY. ONCE THE FOUNDATIONS HAVE BEEN EXPOSED, CONTRACTOR TO REPORT TO THE ENGINEER WHO WILL ASSESS THE QUALITY OF THE EXISTING FOUNDATION. THE ENGINEER WILL REPORT IN WRITING TO THE CONTRACTOR, AS TO WHICH AREAS OF EXISTING FOUNDATIONS MUST BE REMOVED, REMOVING OF FOUNDATIONS MUST BE DONE IN ACCORDANCE WITH GUIDELINES SET OUT BELOW.

STEP 2:
ONCE STEP 1 IS COMPLETED, CONTRACTOR MAY PROCEED WITH RESTRICTED EXCAVATION TO THE REQUIRED DESIGN DEPTH. THE REQUIRED DESIGN DEPTH WILL BE CONFIRMED BY THE ENGINEER PRIOR TO EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE THAT ALL APPROPRIATE SAFETY PRECAUTIONS ARE ADHERED TO DURING EXCAVATION OF DEEP TRENCHES. CONTRACTOR MUST APPOINT A HEALTH AND SAFETY OFFICER THROUGHOUT THE DURATION OF THIS CONTRACT. ALL TRENCHES MUST BE NEATLY TRIMMED AND FREE OF ALL LOOSE DEBRIS.

STEP 3:

CONTRACTOR TO PROVIDE TEMPORARY SUPPORTS IN THE FORM OF STEEL POSTS. STEEL POSTS TO BE PLACED ON 500x500mm CONCRETE PADS IN POSITIONS AS INDICATED ON THE DRAWINGS. ENGINEER WILL INDICATE TO THE CONTRACTOR AS TO WHICH TRENCHES WILL REQUIRE IMPORTED MATERIAL TO FORM A SOIL RAFT. LENGTHS OF STEEL POSTS TO BE CONFIRMED ONSITE.

STEP 4:

ONCE ALL FOUNDATIONS DEPTHS HAVE BEEN CONFIRMED, CONTRACTOR TO PROCEED WITH CASTING OF NEW CONCRETE BASES. CONTRACTOR MUST ENSURE THAT TOP OF NEW CONCRETE BASES AND UNDERSIDE OF EXISTING FOUNDATION IS SET OUT TO THE NEAREST BRICK COURSE +40mm. ALL TEMPORARY PROPS MUST BE CAST INTO FOUNDATIONS. CONCRETE MUST BE ALLOWED TO CURE FOR 7 DAYS PRIOR TO BUILDING OF NEW BRICKWORK. THIS WILL ALLOW THE CONCRETE TO ACHIEVE REQUIRED STRENGTHS AND COMPLETE INITIAL SHRINKAGE

STEP 5:

AFTER 7 DAYS, CONTRACTOR CAN PROCEED WITH BRICKWORK DEPENDING ON EXCAVATION DEPTH. CONTRACTOR TO BUILD 350/400mm BRICK WALL TO 400mm BELOW THE EXISTING FOUNDATION. 12mm ROOTS TO BE PROVIDED AT EVERY SECOND FOUNDATION. 12mm ROOTS TO INSPECT ALL COMPLETED BRICKWORK PRIOR TO CORNERING.

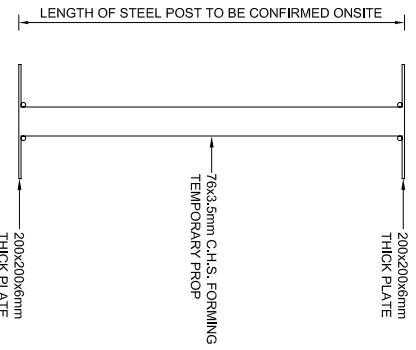
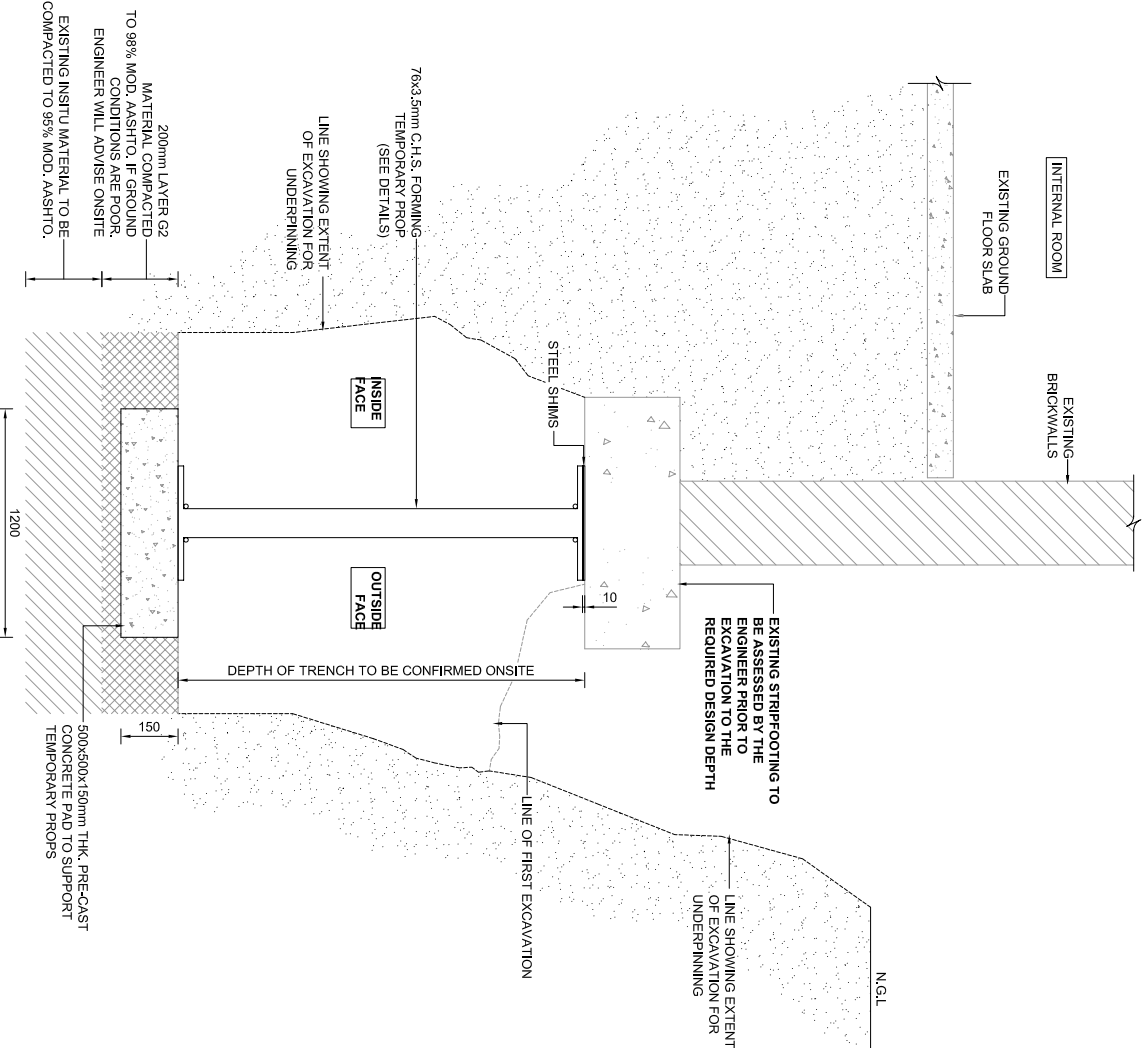
STEP 6:

REMAINING 40mm GAP TO BE FILLED WITH A 5 STAR NON-SHRINK, NON-EXPANSIVE GROUT.

STEP 7:

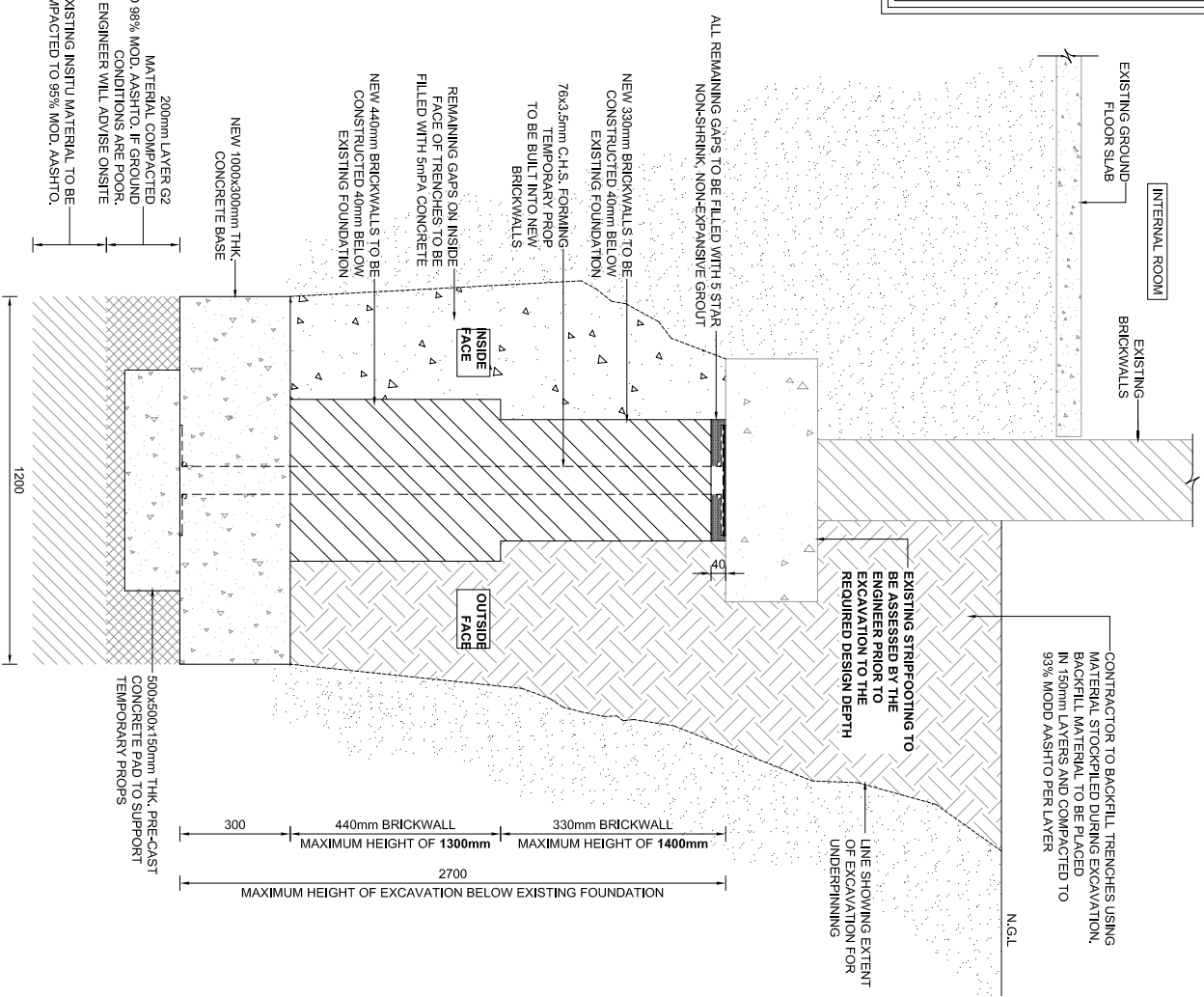
CONTRACTOR TO BACKFILL INSIDE FACE OF TRENCHES USING 5 MPa CONCRETE AND OUTSIDE FACE OF TRENCHES USING MATERIAL STOCKPILED DURING EXCAVATION. BACKFILL MATERIAL TO BE PLACED IN 150mm LAYERS AND COMPACTED TO 95% MODD AASHTO PER LAYER

NOTE:
CONTRACTOR TO NOTE THAT SHOULD EXCAVATION BELOW EXISTING FOUNDATION EXCEED 2.7m, ENGINEER WILL REVIEW DESIGN OF NEW BRICK WALLS



UNDERPINNING PROP DETAIL
SCALE 1 : 10

- NOTES:**
- 1) EXISTING STORMWATER DOWNPIPES THAT ARE IN GOOD ORDER MUST BE STORED AND THEN RE-INSTALLED ON COMPLETION OF UNDERPINNING. ALL DAMAGED S.W. PIPES TO BE REPLACED.
 - 2) ALL ROOT PENETRATION ALONG EXCAVATED AREAS MUST BE REMOVED.
 - 3) ALL UNDERGROUND SERVICES MUST BE PROTECTED DURING EXCAVATION FOR UNDERPINNING.
 - 4) ALL ELECTRICAL CABLES MUST BE SLEEVED PRIOR TO BACKFILLING OF TRENCHES.
 - 5) ALL DAMAGED SEWER AND POTABLE WATER PIPES MUST BE REPAIRED IF DAMAGED DURING EXCAVATION.



TYPICAL SECTION THROUGH 440mm BRICK WALLS
SCALE 1 : 10

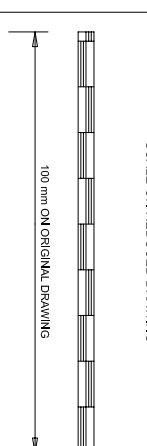
NOTES :
ALL LEVELS AND DIMENSIONS TO BE CHECKED ON SITE BEFORE WORK COMMENCES. ANY DISCREPANCIES TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

ALL FOUNDATIONS MUST BE INSPECTED BY THE ENGINEER BEFORE THE CONCRETE IS CAST
IF MIXING OF CONCRETE IS DONE BY CONTRACTOR ON SITE, THEN APPROPRIATE MIX DESIGN MUST BE USED AND CONCRETE CUBE TEST MUST BE CARRIED OUT.
COMPACTION OF ALL SPECCED GEO-FILL MATERIALS TO BE TESTED AND RESULTS ISSUED TO THE ENGINEER.
WHERE PROPPING IS REQUIRED, CONTRACTOR SHALL BE RESPONSIBLE FOR ERECTION, MAINTENANCE AND REMOVAL OF PROPS.

CONCRETE STRENGTH AT 28 DAYS
BASES 25MPa/10mm
GROUND SLAB 25MPa/10mm
STRIPFOOTING 25MPa/10mm
MIN. COVER TO REINFORCING :
COLUMNS 30mm COVER
BASES 30mm COVER
STRIPFOOTING 40mm COVER
ALL BRICKWORK/BLCKWORK TO BE FULLY BONDED.
SABS APPROVED BRICK/BLOCK FORCE TO BE USED AT EVERY THIRD COURSE.

DWG. NO.	REFERENCE DRAWINGS
REVISION	

REV.	DATE	DESCRIPTION
SCALE ON REDUCED DRAWING		



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CHECKED	P. Naidoo		DATE	08/13

CONSULTANTS DRAWING NO. PO 1394

PROJECT: **WHITBY LODGE**

DRAWING TITLE: **FOUNDATION DETAILS**

SCALES: **AS SHOWN**

DRAWING NO.	PO 1394/002	REVISION	0
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