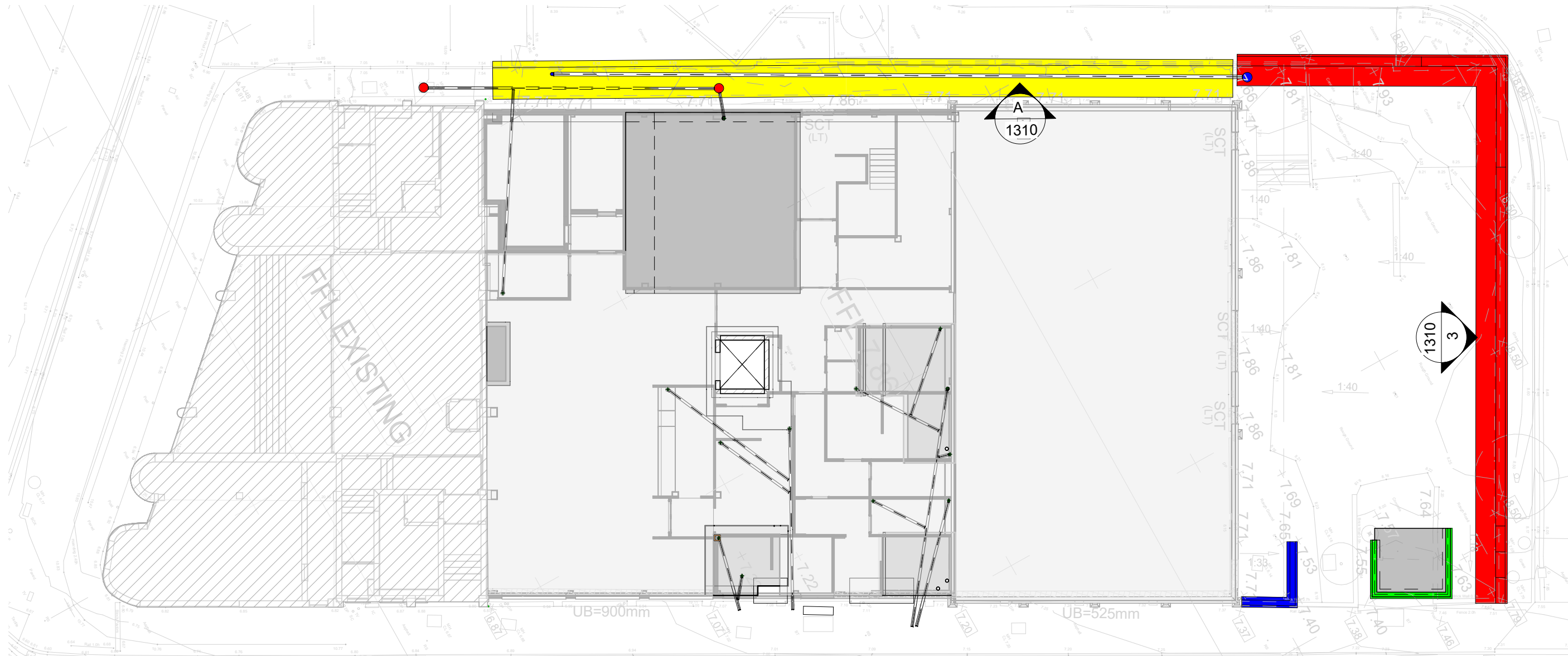
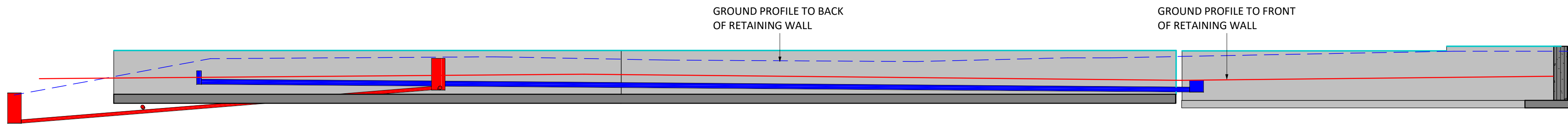


30/11/2020 14:48:23 F:\01 Contracts\0000-CC-C-10892 - Port Talbot Phase Redevelopment\01_WP\W13_Model_3d\5\PT-HYD-XX-ZZ-M3-S-0001_2019_P7.dwg:Gridline Moved.rvt



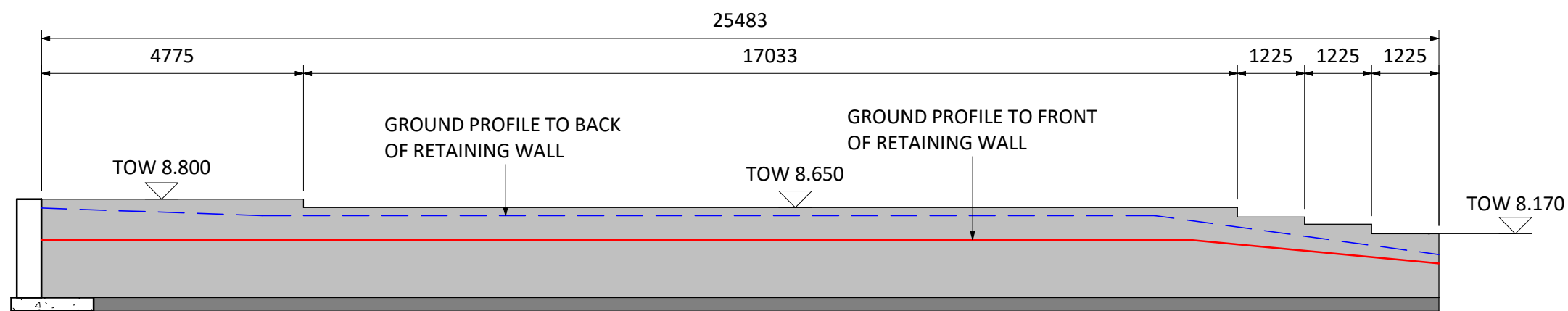
1310.01 - RETAINING WALL KEY PLAN

1 : 200



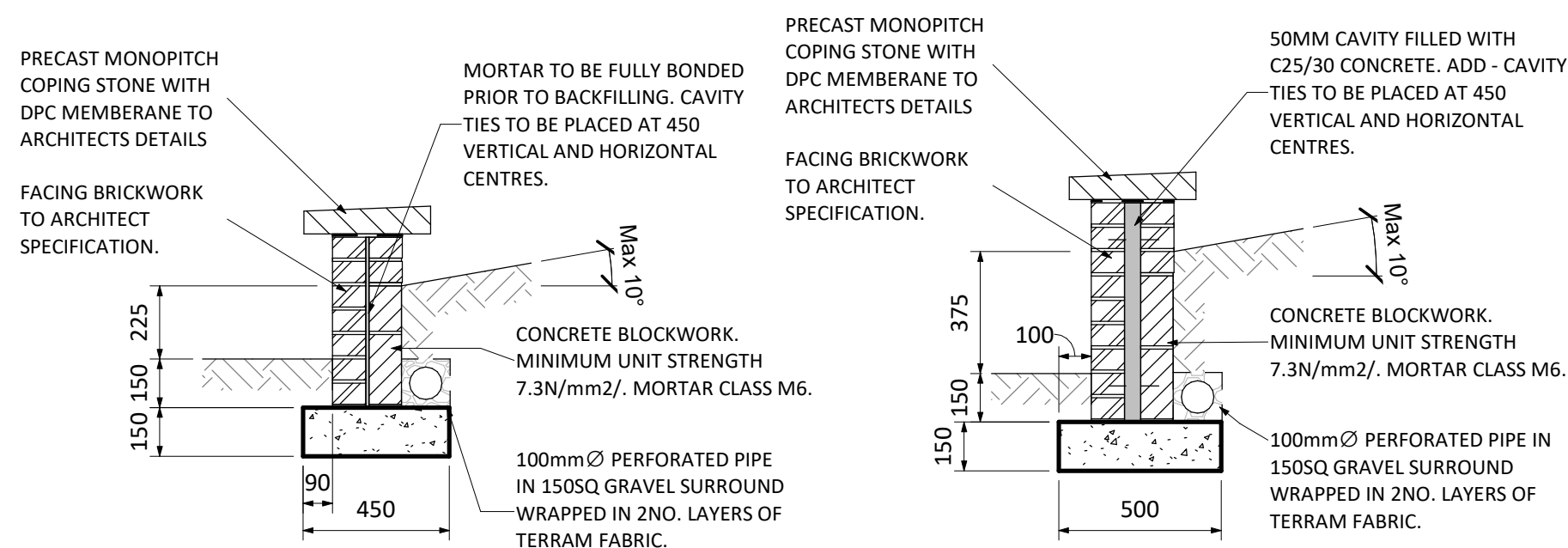
1310.02 - ELEVATION A

1 : 100



1310.03 - ELEVATION B

1 : 100



DETAIL 1 CAVITY FILL RETAINING WALL
MAXIMUM RETAINED HEIGHT 225mm
[MAXIMUM SUCHARGE 5kPa]

DETAIL 2 CAVITY FILL RETAINING WALL
MAXIMUM RETAINED HEIGHT 375mm
[MAXIMUM SUCHARGE 5kPa]

NOTE:

WEEPHOLES/WATERPROOFING TO CONTRACTORS SPECIFICATION TO REFLECT CLIENT REQUIREMENTS.

DESIGN BASED ON ALLOWABLE BEARING PRESSURE OF 100kN/m².

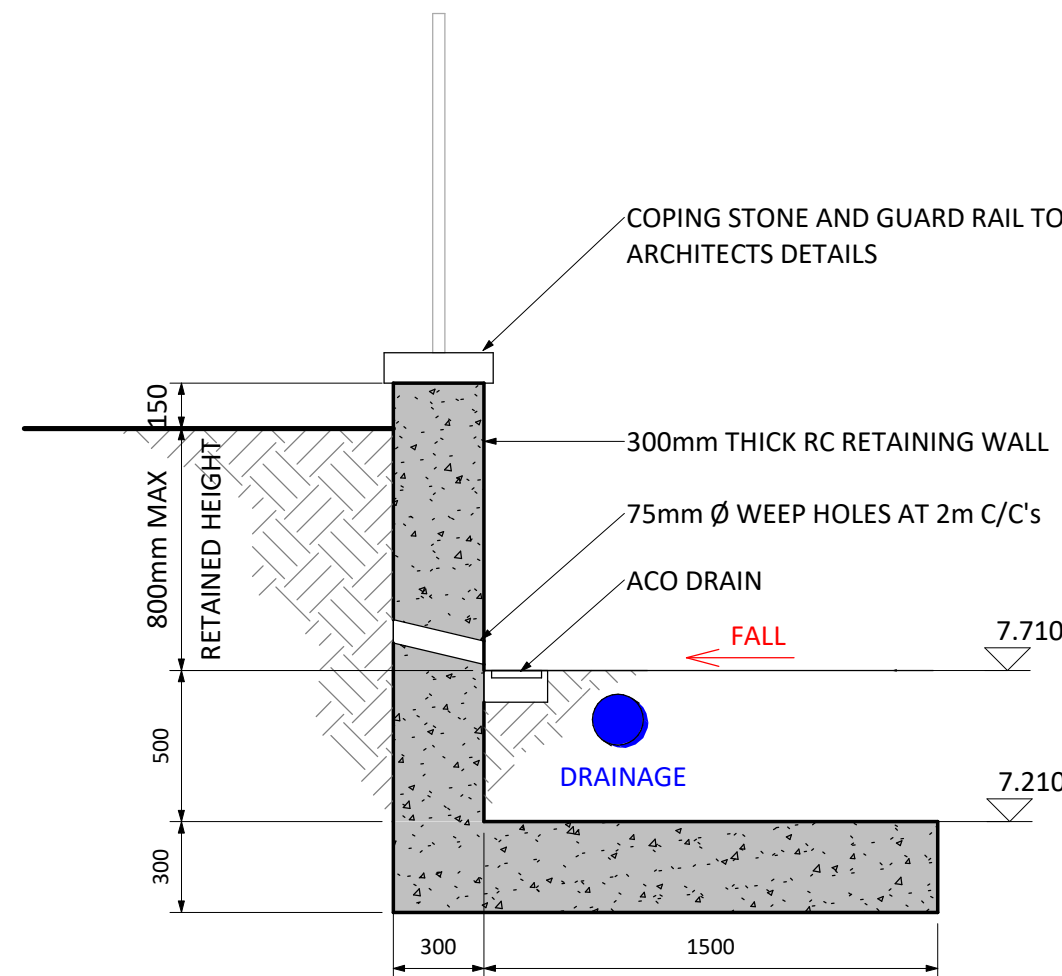
FOUNDING MATERIAL TO BE PROOF ROLLED AND PLATE TESTED TO CONFIRM MINIMUM ALLOWABLE BEARING PRESSURE HAS BEEN ACHIEVED PRIOR TO CONSTRUCTION.

FOUNDING MATERIAL WILL VARY ACROSS THE SITE

ALL VISIBLE SOFT SPOTS BELOW PROPOSED FOUNDATIONS TO BE EXCAVATED AND REPLACED WITH COMPACTED GRANULAR FILL PRIOR TO PROOF ROLLING AND PLATE TESTING OF GROUND.

KEY:

- MASONRY RETAINING WALL SEE DETAIL 1
- CAVITY FILLED MASONRY RETAINING WALL SEE DETAIL 2
- RC RETAINING WALL WITH MASONRY FINISH SEE DETAIL 3
- RC RETAINING WALL SEE DETAIL 4

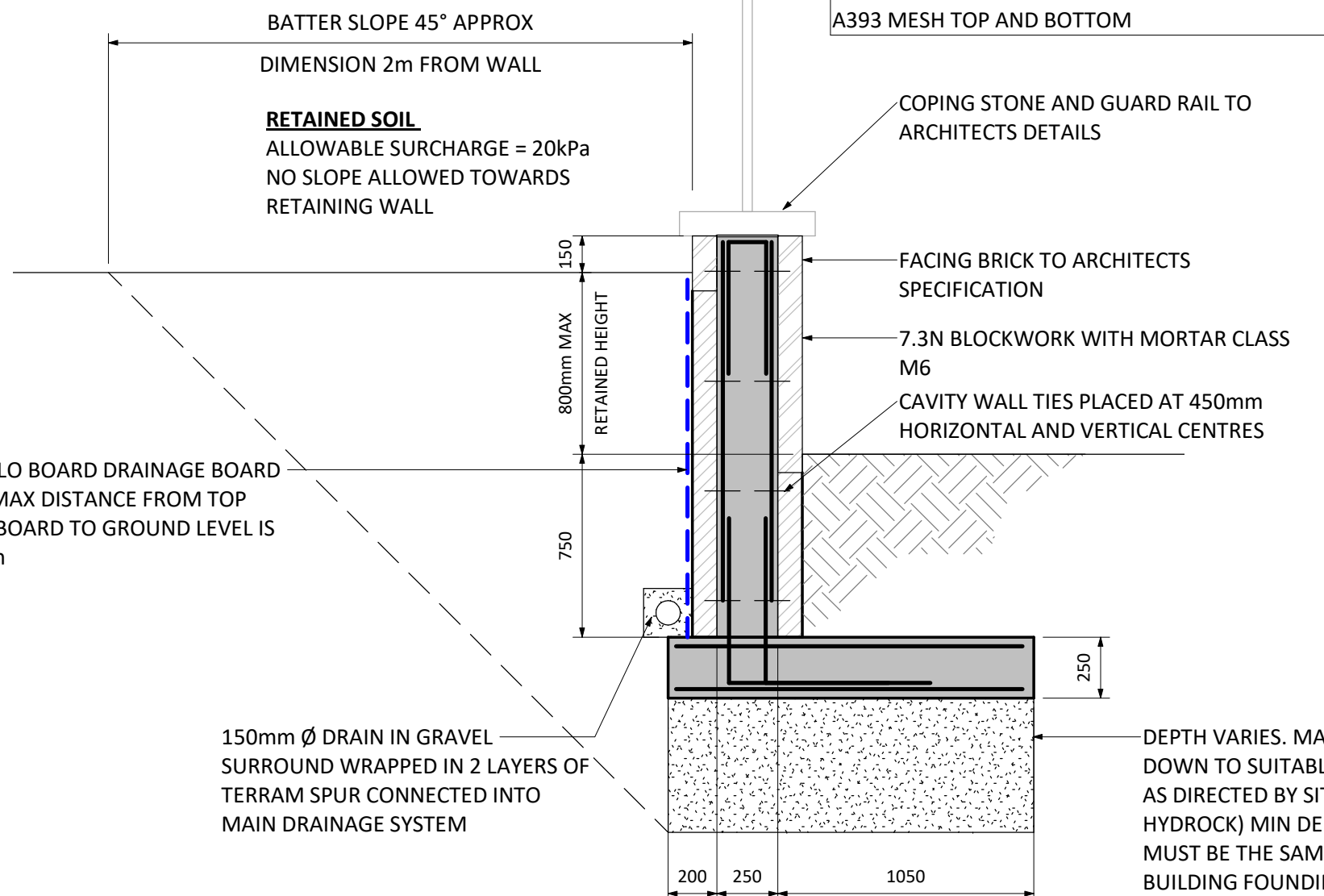


1310.05 - DETAIL 4 SECTION THROUGH RC RETAINING WALL

1 : 25

REINFORCEMENT REQUIREMENTS (50mm COVER)

RC WALL MAIN
H12 AT 200mm C/C's EACH FACE
H12 STARTER BARS WITH 40xDIA LAP LENGTH
RC WALL TRANSVERSE
H8 AT 200mm C/C's EACH FACE
BASE
A393 MESH TOP AND BOTTOM



1310.04 - DETAIL 3 SECTION THROUGH RC RETAINING WALL

1 : 25

NOTES

RETAINED MATERIAL TO BE LOOSELY PLACED, FREE DRAINING AND COMPACTED IN LAYERS.

CONCRETE GRADE: RC32/40_DS1.

CONCRETE POURED INTO MASONRY CAVITY IN UPLIFTS OF NO GREATER THAN 1m, ALLOWED TO CURE FULLY BEFORE SUBSEQUENT POURS.

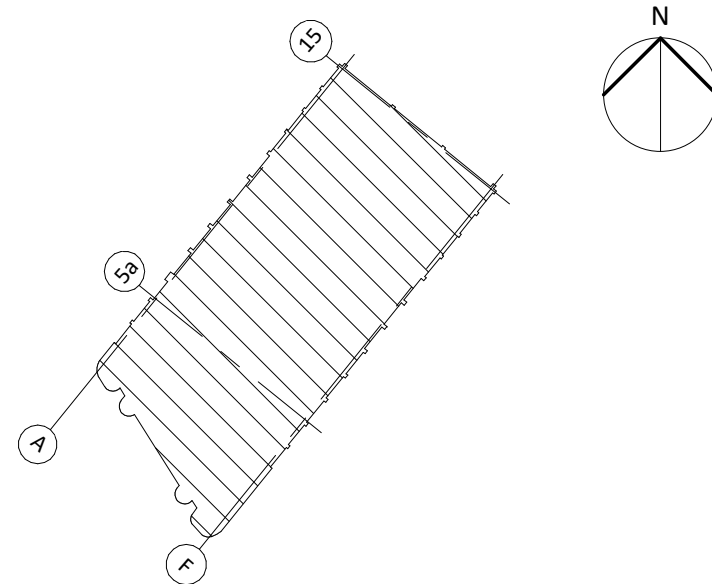
FOUNDING DEPTH TO BE WITHIN THE GRANULAR ALLUVIAL FAN DEPOSITS, ENCOUNTERED AT 0.8 AND 2.2m BGL. FOUNDING STRATA TO BE INSPECTED BY COMPETENT PERSON (NOT HYDROCK) DURING CONSTRUCTION TO ENSURE THE STRUCTURE IS FOUNDED ON SUITABLE STRATA.

SHOULD DURING THE EXCAVATION OF THE FOUNDATIONS ANY SOFT SPOTS OR HARD SPOTS BE ENCOUNTERED, THESE SHOULD BE REMOVED AND REPLACED WITH AN ENGINEERED FILL MATERIAL.

WHERE THE RETAINING WALL IS CONSTRUCTED IN CLOSE PROXIMITY TO THE EXISTING HOUSES/NEW STRUCTURE. THE FOUNDATIONS ARE TO BE TIED AND CAST TO THE NEW FOUNDATIONS. CARE MUST BE TAKEN NOT TO UNDERMINE THE ADJACENT STRUCTURE FOUNDATIONS SO THEY DO NOT SURCHARGE THE RETAINING WALL.

A SUITABLE LIGHTWEIGHT RAILING SHOULD BE FIXED TO THE CONCRETE STEM AND NOT THE FACING MASONRY. DESIGN TO ARCHITECTS SPECIFICATION. WALL IS NOT DESIGNED TO WITHSTAND IMPACT LOADING.

KEY PLAN



NOTES

1. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BEFORE THE COMMENCEMENT OF WORKS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ARCHITECT & ENGINEER FOR VERIFICATION. FIGURED DIMENSIONS ONLY ARE TO BE TAKEN FROM THIS DRAWING.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS' AND SERVICE ENGINEERS' DRAWINGS AND SPECIFICATIONS. THIS DRAWING IS COPYRIGHT.

FOUNDATIONS

1. ALL EXCAVATIONS FOR FOUNDATIONS TO BE BLINDED 50mm LEAN-MIX CONCRETE OR 50mm COMPACTED SAND.

CONCRETE

1. MASS FILL CONCRETE TO BE MIN GRADE FND2
2. REINFORCED CONCRETE TO BE GRADE C32/C40

MASONRY

1. ALL BELOW GROUND BLOCKWORK TO BE MEDIUM-DENSE, MIN STRENGTH 7.3N/mm².
2. ALL BELOW GROUND BRICKWORK TO BE MIN CLASS B ENGINEERING BRICK.
3. ALL ABOVE GROUND BRICKWORK TO ARCHITECTS SPECIFICATION.
4. ALL MORTAR TO BE MINIMUM M4.

REVISIONS

REV	FOR REVIEW & COMMENT	DATE	BY	DATE	BY
P01	L BUSHROD	18/10/19	P DAVIES	18/10/19	M ACE

REV	DATE	CHECKED BY	DATE	APPROVED BY	DATE

Hydrock	Castlebridge 5 5-19 Cowbridge Road East CARDIFF CF11 9AB t: +44(0)2920 023665 e: cardiff@hydrock.com
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CLIENT	NEATH PORT TALBOT COUNTY BOROUGH COUNCIL
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PROJECT	PLAZA PORT TALBOT
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TITLE	EXTERNAL RETAINING WALL DETAILS
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HYDROCK PROJECT NO. C-10892	SCALE @ A1 As indicated
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SUITABILITY DESCRIPTION SUITABLE FOR REVIEW & COMMENT	SUITABILITY S3
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DRAWING NO. (PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER) PPT-HYD-XX-ZZ-DR-S-1310	REVISION P01
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