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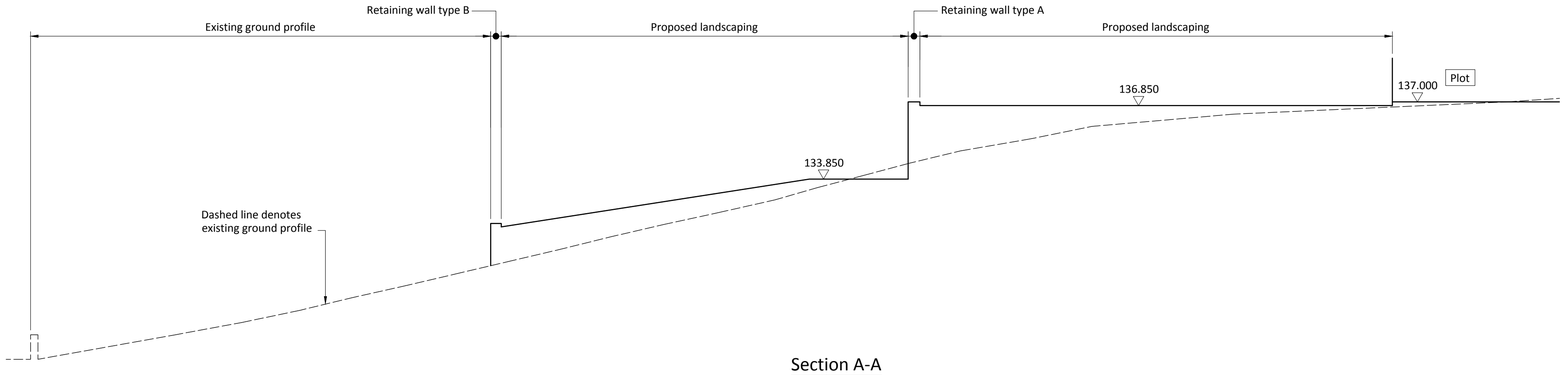
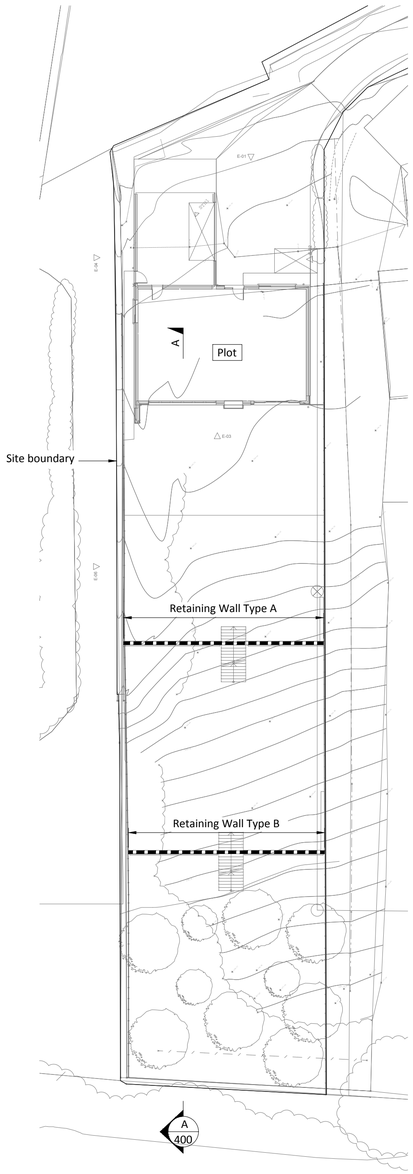
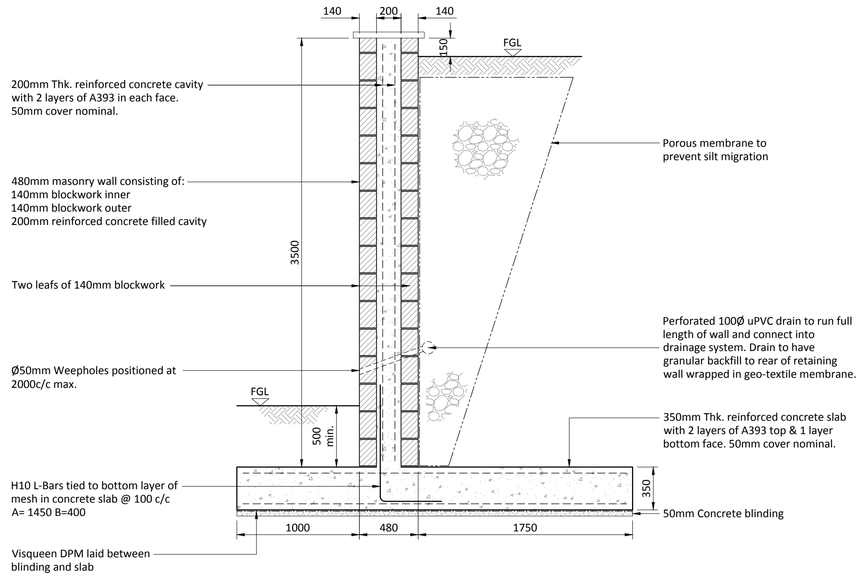
A1



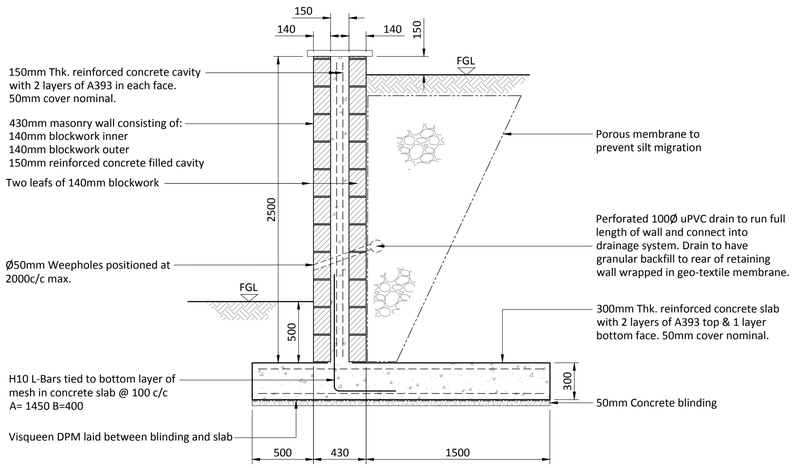
Section A-A
Scale 1:125



Plan
Scale 1:250



Section on Retaining Wall Type A
Scale 1:25



Section on Retaining Wall Type B
Scale 1:25

Masonry Specification Notes

1. All masonry to be in accordance with BS 5628.
2. All masonry to be in accordance with the contract specification.
3. Brickwork above ground to be to Architects details to BS 3921, minimum strength 15N/mm², designation FN, with water absorption rate between 7-12%, in grade (iii) mortar to BS 5628.
4. Brickwork below ground and within 150mm of finished ground level to be Class B engineering brick O.S.A. to BS 3921 in grade (i) mortar to BS 5628.
5. Blockwork to be dense solid concrete block O.S.A. , minimum strength = 7.0N/mm², minimum density 1400kg/m³, in grade (iii) mortar to BS 5628.
6. Wall ties to be proprietary stainless steel at 450mm vertical and 900mm horizontal centre's, reducing to 300mm vertical centre's at 225mm from openings.
7. BRC Brickforce or Bricktor to both leaves to 2 courses above and below each window opening. Bed joint reinforcement to extend 600mm beyond window opening to each side.

Reinforcement Notes

1. All work to be carried out in accordance with contract specification.
2. All proprietary components are to be constructed in strict accordance with the manufacturer's instructions.
3. The structure is designed to be stable upon completion, temporary stability is the responsibility of the contractor.
4. Cover to be 50mm U.N.O.
5. Reinforcement is to be fixed and held firmly in position prior to concrete placement using cold reduced steel tying wire to BS. 4482 and proprietary concrete spacers as necessary.
6. Reinforcement to comply with BS 4449 and BS 8666:2005.
7. Minimum reinforcement lap lengths to be:
   - H10 Bars = 400 mm
   - H12 Bars = 480 mm
   - H16 Bars = 640 mm
   - H20 Bars = 800mm
   - Mesh = 400mm
8. Reinforcement quantity - allow 115kg of high yield steel cut and bent loose bars per m³ of concrete to all foundations and lift pit.
9. Standard bar notation:- 17 H25-06-250 NF
   - 17 = No. of bars
   - H25 = Bar type & size
   - 06 = Bar mark
   - 250 = Bar spacing
   - NF = Abbreviation

   Abbreviations
   - H = High yield, high bond
   - T = Top
   - B = Bottom
   - NF = Near face
   - FF = Far face
   - AR = Alternate bars reversed
   - AP = Alternately placed
   - STG = Staggered
10. All reinforcement detailed on this drawing are listed on the bar schedules xxx/xxx/xxx.

General Notes

1. DO NOT SCALE.
2. This drawing is to be read in conjunction with all other relevant drawings.
3. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Engineer should be informed PRIOR to construction on site.
4. All dimensions are in millimetres unless otherwise stated.
5. Assume all site details are existing unless otherwise specified.
6. All specialist items to be used in accordance with the manufacturers recommendations.
7. The contractor should maintain the stability of all existing buildings and structures within and adjacent to the works, and of all works from the date of possession of the site until practical completion of the works. The contractor shall design, install and maintain all necessary temporary works to comply with the above.
8. The contractor shall submit his proposals for the temporary supports and method statement showing the sequence of construction of the works to the employer for comment before commencement of the works.
9. The contractor shall be responsible for ensuring that sufficient tolerances are provided and integrated throughout all elements of the works. The contractor is to take account of tolerances detailed elsewhere when complying with this clause.
10. All details of existing construction to be confirmed on site. Any discrepancies are to be reported to the Engineer immediately.
11. The contractor is to provide temporary access and surfacing to the works during the construction period.
12. All setting out to HTC Architects Drg No 1097/101A.
13. Proposed works should not have any impact on existing services.

Concrete Notes

1. All concrete to be design mix graded C35 to BS 8110 with minimum cement content 300kg/m3/ and maximum water / cement ration of 0.5. Nominal aggregate size 20mm, sulphate class 1.
2. Three cubes shall be taken from the first batch and three cubes from every third batch thereafter. One cube to be tested after 7 days, one after 28 days and one to be kept for re-testing if required.
3. Dimensions shown on the drawing shall not differ from as built dimensions by more than the following;

	In Plan Dims < 2000mm	Dims > 2000mm	In Plan
Foundation	15mm	15mm	15mm
Elsewhere	5mm	5mm	5mm

4. The actual concrete cover to the reinforcement shall not be less than the required nominal cover minus 5mm.
5. Prior to concrete being poured, all surfaces shall be cleaned, free of dirt, debris and water.
6. Poured concrete shall be vibrated using poker vibrator.
7. Concrete shall not be placed while temperature is 5°c on a falling thermometer, 44°c on rising thermometer.
8. All concrete to be protected from loss of moisture for first four days after placing.
9. Nominal concrete cover to formed or prepared surfaces to be 40mm.
10. Nominal concrete cover to unblinded excavations to be 75mm.
11. Concrete to each base to be placed in one continuous pour.
12. Formed finishes to be basic finish / plain finish.
13. Worked finishes to be tamped finish / brushed finish / steel float finish.
14. Reinforcement to be designed in accordance with BS 4449 and 4483. All reinforcement shall be bent in accordance with BS 8666. It shall be the responsibility of the contractor to detail all reinforcement for the works. Nominal cover to reinforcement as stated on the drawings.
15. Site mixing of structural concrete will not be permitted.
16. Blinding concrete to be grade C10 to BS 8110.

DESCRIPTION	REV	DATE	CHK	APR

beamconsulting

Beam Consulting
14 Bond Street
Wakefield
WF1 2QP
Tel: 01924 361653
Fax: 01924 364631

PROJECT
Lepton

DRAWING TITLE
Retaining Wall GA & Details

CLIENT
Fraser Morgan Limited

STATUS
Information

DRAWN	KK	DATE	13/05/19
CHECKED	TM	SCALE	AS SHOWN @ A1
APPROVED	KGP		

DRAWING NUMBER	REVISION
186-32-400	-