GENERAL

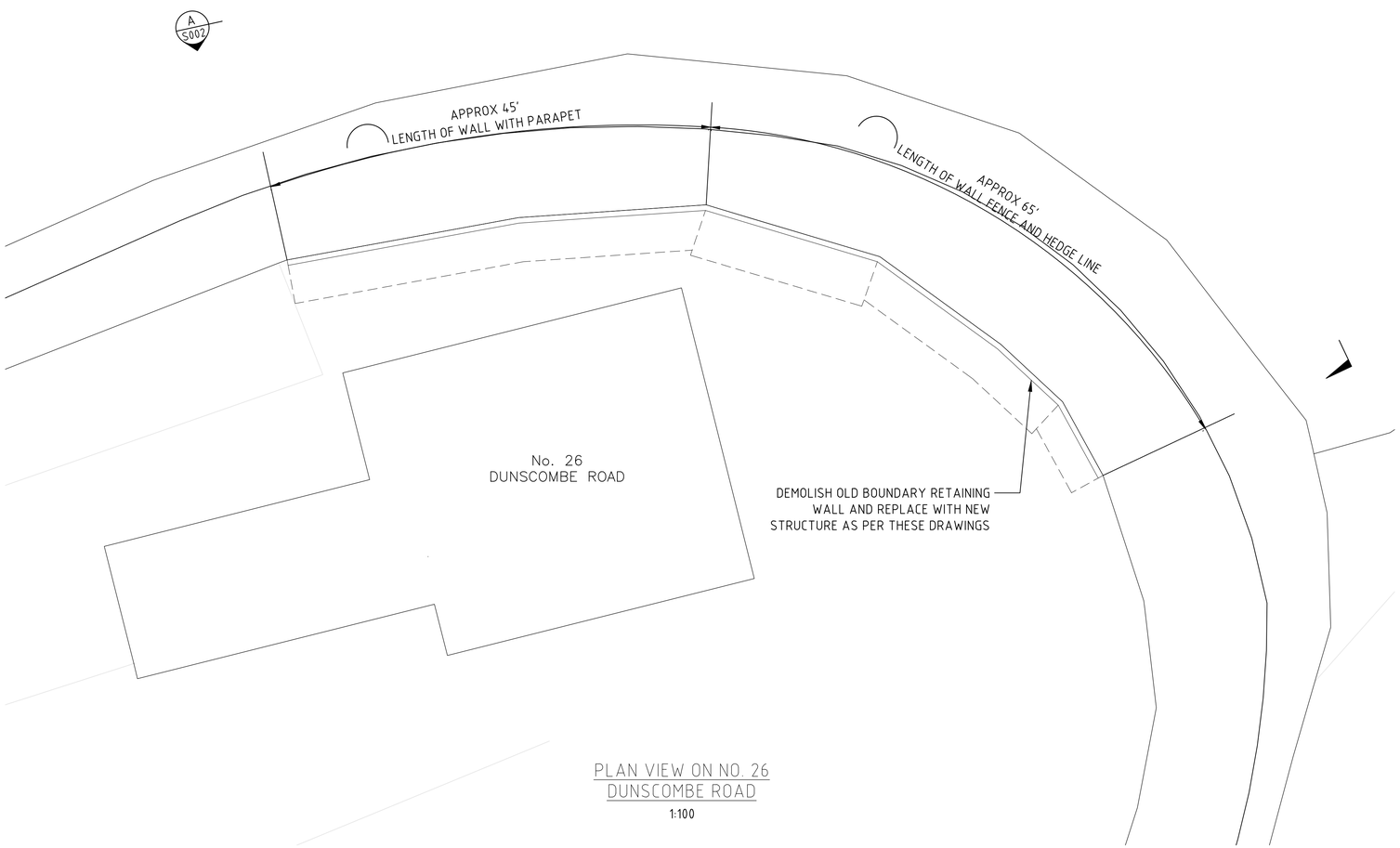
1. ALL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION AND ANY OTHER WRITTEN INSTRUCTIONS ISSUED.
2. WHERE APPROVAL IS REQUIRED, THIS SHALL BE OF THE SUPERINTENDENT OR HIS REPRESENTATIVE.
3. ANY AMBIGUITY OR DISCREPANCY SHALL BE REFERRED FOR CLARIFICATION BEFORE WORK PROCEEDS.
2. DIMENSIONS ARE PRESENTED IN MILLIMETERS WITH EQUIVALENT FOOT/INCH VALUE SHOWN IN BRACKETS.
   EXAMPLE: 1000mm [3'-3 $\frac{3}{8}$"]
3. REFER TO THE DRAWING DIMENSIONS FOR SETTING OUT THE WORKS. HOWEVER, ALL EXISTING DIMENSIONS AND LEVELS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR ON SITE.
4. UNLESS NOTED OTHERWISE, ALL LEVELS ARE IN METRES [m].
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE STRUCTURE UNTIL ITS COMPLETION AND SHALL ENSURE THAT NO PART OF THE STRUCTURE IS OVERSTRESSED DURING THE WORKS.
6. WHERE STANDARDS ARE REFERRED TO, THEY SHALL BE THE LATEST EDITION.
7. PROPRIETARY ITEMS, PROPOSED BY THE CONTRACTOR, ARE TO BE REVIEWED AND APPROVED BY THE DESIGNING ENGINEER PRIOR TO USE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING WORK AREAS.
9. ALL DEMOLITION SHALL BE IN AN ACCEPTABLE MANNER UNDER THE OCCUPATIONAL HEALTH AND SAFETY REGULATIONS 2009. ALL SURPLUS MATERIAL SHALL BE DISPOSED OF OFF SITE IN A LEGAL MANNER.

REINFORCEMENT

1. WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. IF SHOWN/PERMITTED, WELDS SHALL DEVELOP THE FULL STRENGTH OF THE REINFORCING ELEMENT.
2. ALL REINFORCING STEEL TO HAVE A MINIMUM YIELD STRENGTH OF 410 MPa AND SHALL BE TYPE 2 DEFORMED BARS
3. ALL REINFORCING STEEL SHALL BE CLASS II GALVANISED IN ACCORDANCE WITH ASTM A767. TIE WIRE SHALL ALSO BE GALVANISED.
4. REINFORCEMENT SPACING NOT SHOWN SHALL BE TAKEN AS EQUAL.
5. REINFORCING CHAIRS ARE TO BE CONCRETE AND AS SMALL AS PRACTICABLE. PROPRIETARY PLASTIC COVER SUPPORTS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
6. REINFORCING BARS SHOWN ON THESE DRAWINGS ARE DIAGRAMMATIC ONLY.
7. BARS SHOWN MAY REPRESENT MORE THAN ONE LENGTH AND/OR PROFILE.
8. BARS MAY NOT BE SHOWN IN TRUE POSITION FOR CLARITY. ALL HOOKS, BENDS AND COGS ARE STANDARD AND SHALL BE IN ACCORDANCE WITH ACI 318 UNLESS NOTED OTHERWISE.
9. LAP SPLICES TO ALTERNATE AND NO MORE THAN 50% OF SPLICES SHALL BE IN ANY ONE SECTION.
10. BARS SHALL NOT BE CUT NOR BENT ON SITE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
11. BARS SHALL BE BENT COLD BY MACHINE OR OTHER APPROVED MEANS PRODUCING A GRADUAL AND EVEN MOTION. BARS INCORRECTLY BENT SHALL NOT BE RE-BENT AND INCORPORATED IN THE WORKS AND NO REINFORCEMENT SHALL BE BENT WHEN IN POSITION IN THE WORKS, WHETHER OR NOT IT IS PARTIALLY EMBEDDED IN HARDENED CONCRETE.
12. CONTRACTOR TO PROVIDE 24 HOURS NOTICE FOR THE INSPECTION OF ALL REINFORCING PRIOR TO POURING CONCRETE.
13. LAP LENGTHS SHALL BE AS TABULATED (SHOWN BELOW) UNLESS SHOWN OTHERWISE ON THE DRAWINGS.

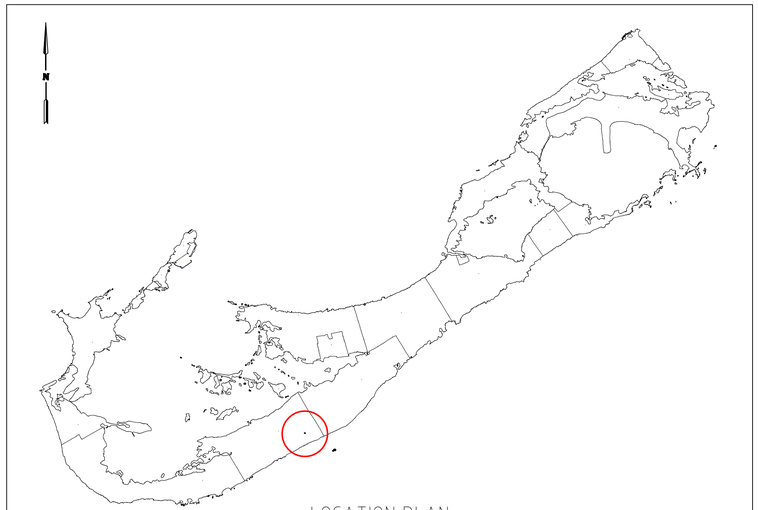
MINIMUM ALLOWABLE LAP LENGTHS	
BAR DIAMETER	MIN LAP LENGTH
T10	460mm [18"]
T12	600mm [24"]
T16	760mm [30"]
T20	900mm [36"]
T25	1500mm [60"]

ALTERNATIVE BAR SIZES		
METRIC BAR SIZE (mm)	IMPERIAL EQUIVALENT (")	FORMER IMPERIAL DESIGNATION
T10	3/8"	#3
T12	1/2"	#4
T16	5/8"	#5
T20	3/4"	#6
T25	1"	#8



PLAN VIEW ON NO. 26 DUNSCOMBE ROAD

1:100



LOCATION PLAN

1:100,000

CONCRETE

1. CONCRETE SHALL COMPLY WITH THE FOLLOWING SPECIFICATION:
   - MINIMUM CONCRETE COVER TO REINFORCEMENT
     - FOOTINGS
       - TOP = 50mm (2")
       - BOTTOM = 75mm (3")
   - MINIMUM CONCRETE STRENGTH AT SERVICE F'c = 25 MPa
   - MINIMUM CEMENT CONTENT = 440 Kg/m^3 (28 lb/ft^3)
   - MAXIMUM WATER/CEMENT RATIO = 0.5
2. CONCRETE MIX DESIGNS TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL.
3. NO ADDITIVES TO BE USED WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
4. CAST IN ITEMS WITH LESS THAN 25mm (1") COVER TO ATMOSPHERE SHALL BE HOT DIPPED GALVANISED IN ACCORDANCE WITH ASTM A153.
5. ALL FORMWORK, SHORING AND RESHORING SHALL BE THE RESPONSIBILITY OF AND DESIGNED BY THE CONTRACTOR
6. CONCRETE SHALL BE TESTED FOR SLUMP ON SITE. THE TEST CYLINDERS SHALL BE TAKEN FOR 3, 7 AND 28 DAY STRENGTHS.
7. CONCRETE STRENGTH AND SLUMP TO BE AS FOLLOWS

MIN. SPECIFIED 28 DAY STRENGTH	SLUMP
25 MPa	75mm ± 25mm

EXCAVATION AND EARTHWORKS

1. CONTRACTOR TO TAKE CARE IN EXCAVATION OF EXISTING STRUCTURE AND IN GENERAL TO NOT CAUSE UNCONTROLLED STRUCTURAL COLLAPSE
2. ALL SHORING, SHEETING AND DE-WATERING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
3. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT ALL EXISTING AND SURROUNDING INFRASTRUCTURE
4. IF UNEXPECTED MECHANICAL, ELECTRICAL OR STRUCTURAL ELEMENTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUBMIT DETAILS OF SUCH TO THE ENGINEER.
5. FOUNDATIONS ARE TO BEAR ON UNDISTURBED AND SOUND GROUND/ROCK. BEARING MATERIAL IS TO REMAIN UNDISTURBED AND BE REVIEWED BY THE ENGINEER PRIOR TO POURING FOOTING.
6. ANY SOFT AREAS IN BEARING MATERIAL ARE TO BE REMOVED AND FILLED WITH MASS CONCRETE OF MINIMUM STRENGTH 25 MPa.
7. A MINIMUM 50mm (2") CONCRETE BLINDING LAYER TO BE POURED UNDER THE FULL EXTEND OF THE RETAINING WALL FOOTING.
8. NO BACKFILLING UNTIL 7 DAYS AFTER LAST CONCRETE POUR
9. BACKFILL MATERIAL SHALL BE FREE FROM ORGANIC MATTER, CONSTRUCTION DEBRIS AND LARGE ROCKS.
10. BACKFILL MATERIAL SHALL BE WELL GRADED AND PLACED IN LAYERS NOT EXCEEDING 150mm (6")
11. BACKFILL MATERIAL TO BE COMPACTED EVERY 600mm (2')
12. EXISTING VEGETATION ROOTS WITHIN THE EXTENTS OF THE NEW RETAINING WALL TO BE CUT/REMOVED AND TREATED WITH ROOT KILLER
13. THE CONTRACTOR SHALL LOCATE AND IDENTIFY EXISTING UNDERGROUND UTILITIES WITHIN THE SITE EXTENTS. IF UTILITIES ARE TO REMAIN, THE CONTRACTOR SHALL ENSURE THAT THE UTILITIES ARE SUPPORTED AND PROTECTED THROUGHOUT THE WORKS.

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DEPARTMENT OF WORKS AND ENGINEERING

Fax: (441) 295-5658

ISSUED FOR: TENDER

AMENDMENTS:

NO	REVISION	BY	APP	DATE
A	FOR TENDER	CF	–	31/10/25

SCALE: AS SHOWN AT ANSI D

SURVEY
PREPARED BY: – DATE: –

DESIGN
PREPARED BY: C.FRASER DATE: 31/10/25
CHECKED BY: – DATE: –

DRAWING
PREPARED BY: C.FRASER DATE: 31/10/25
CHECKED BY: – DATE: –

APPROVED BY: – DATE: –

PROJECT NUMBER: –

PROJECT NAME:

DUNSCOMBE ROAD RETAINING WALL

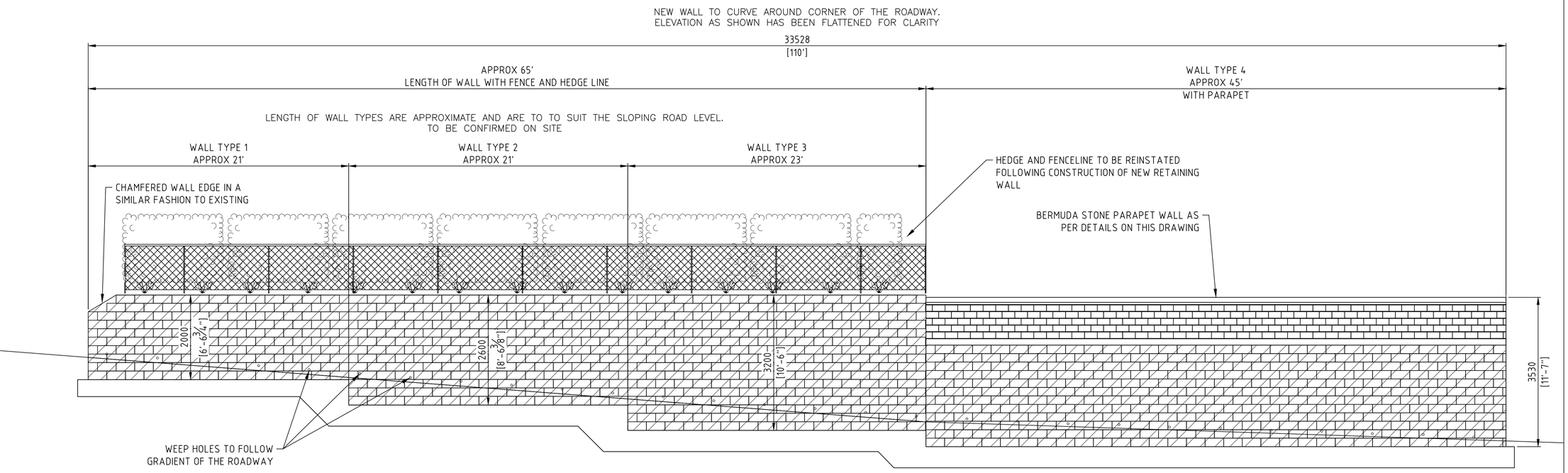
WARWICK

SHEET TITLE:

GENERAL NOTES

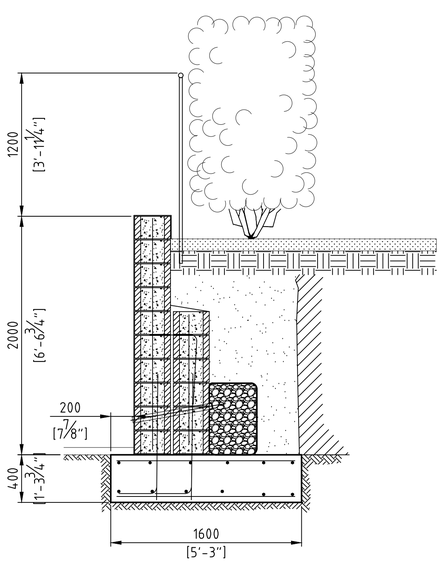
SHEET NUMBER: S001

REVISION: A

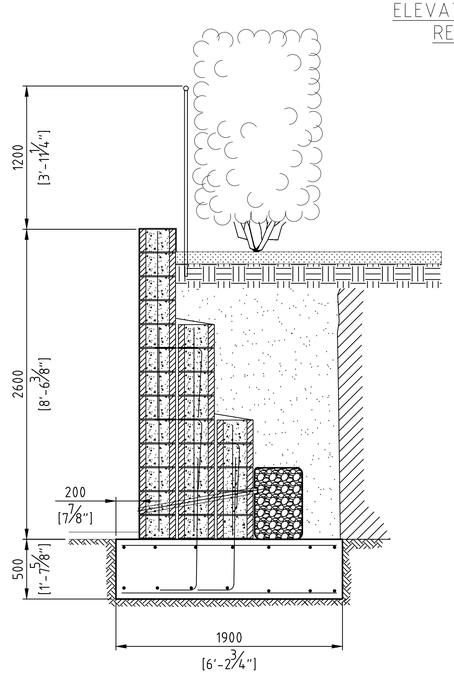


VIEW A:A
ELEVATION ON PROPOSED
RETAINING WALL
1:50

HATCH INDICATES WALLS TO BE COATED WITH MINIMUM OF ½" LIME PLASTER



WALL TYPE 1
10 COURSES
1:25



WALL TYPE 2
13 COURSES
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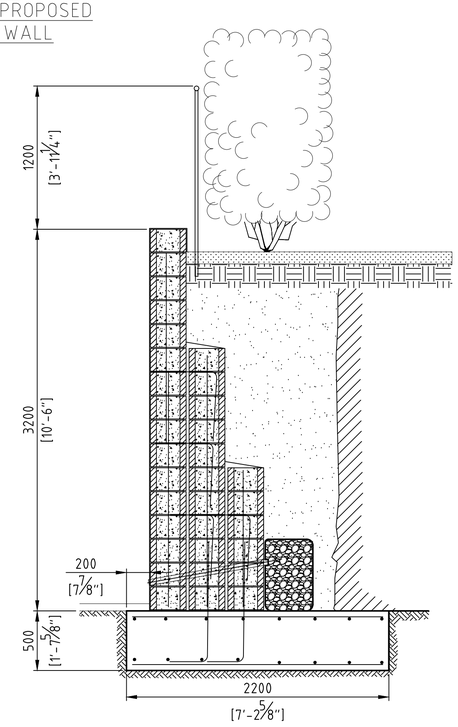
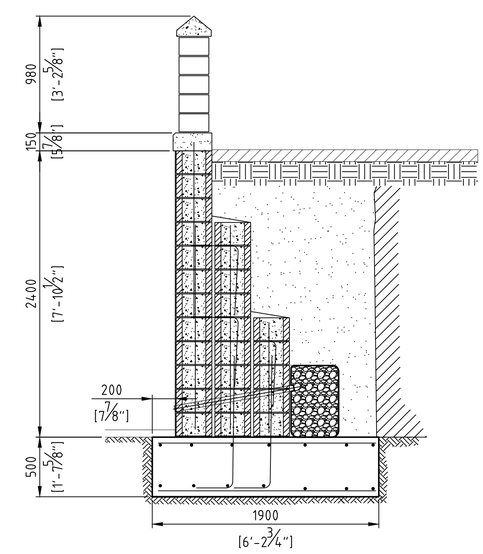


WALL TYPE 3
16 COURSES
1:25



WALL TYPE 4
PARAPET TOP
1:25

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SCALE: AS SHOWN AT ANSI D

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DATE: –

DESIGN
PREPARED BY: C.FRASER
DATE: 31/10/25
CHECKED BY: –
DATE: –

DRAWING
PREPARED BY: C.FRASER
DATE: 31/10/25
CHECKED BY: –
DATE: –

APPROVED BY: –
DATE: –

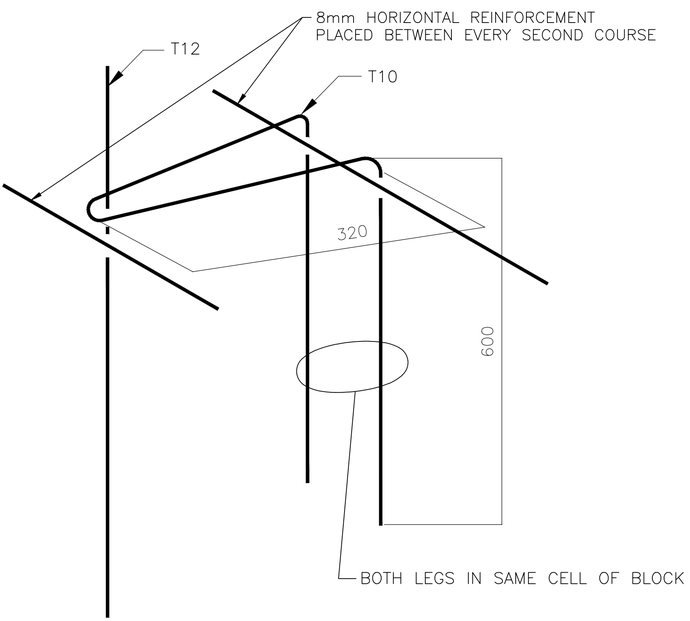
PROJECT NUMBER:
–

PROJECT NAME:
DUNSCOMBE ROAD
RETAINING WALL

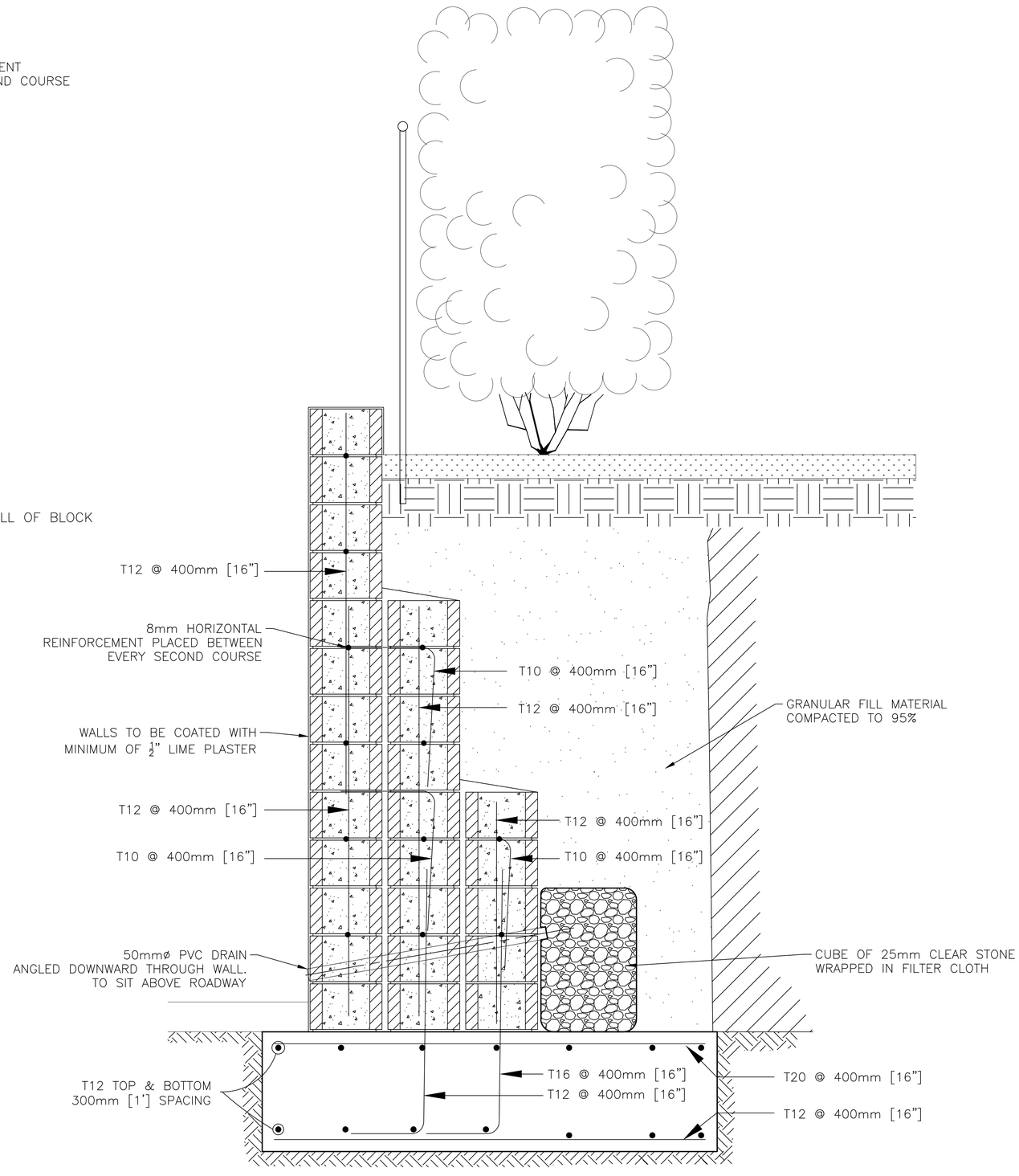
WARWICK

SHEET TITLE:
GENERAL ARRANGEMENT

SHEET NUMBER: S002
REVISION: A



TYPICAL LOOPED
REINFORCEMENT DETAIL
1:10



TYPICAL WALL DETAILS
1:10

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PREPARED BY: C.FRASER
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DATE: –

APPROVED BY: –
DATE: –

PROJECT NUMBER:
–

PROJECT NAME:
DUNSCOMBE ROAD
RETAINING WALL

WARWICK

SHEET TITLE:
WALL DETAILS

SHEET NUMBER: S003
REVISION: A