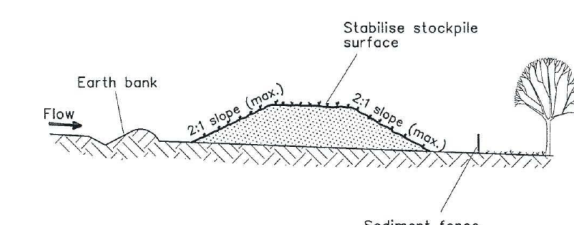
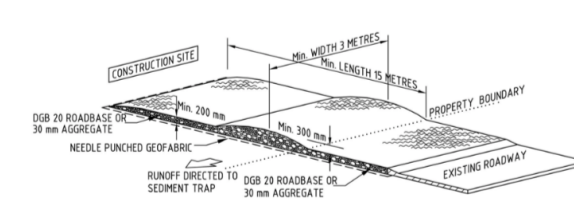


**SANDBAGGED CURB SEDIMENT TRAP - CONSTRUCTION NOTES**  
1. IN CERTAIN CIRCUMSTANCES EXTRA SEDIMENT TRAPPING MAY BE NEEDED IN THE STREET GUTTER.

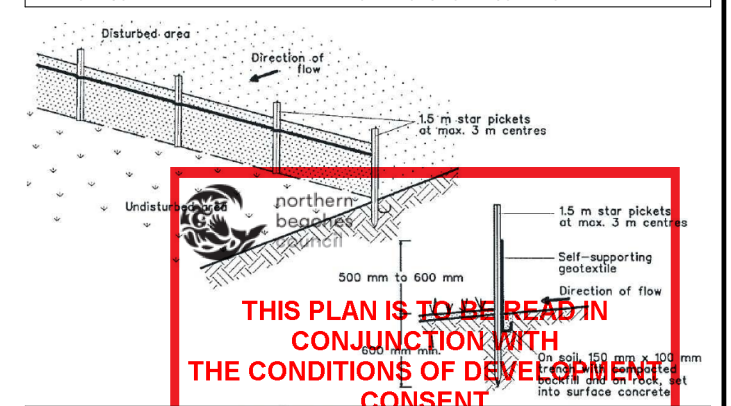


**STOCKPILE - CONSTRUCTION NOTES**  
1. WHERE POSSIBLE LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATERFLOWS, ROADS AND HAZARD AREA.  
2. CONSTRUCT ON THE CONTOUR AS A LOW, FLAT, ELONGATED MOUND.  
3. WHERE THERE IS INSUFFICIENT AREA TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.  
4. REHABILITATE IN ACCORDANCE WITH THE SWMP/ESCP.  
5. CONSTRUCT EARTH BANK (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

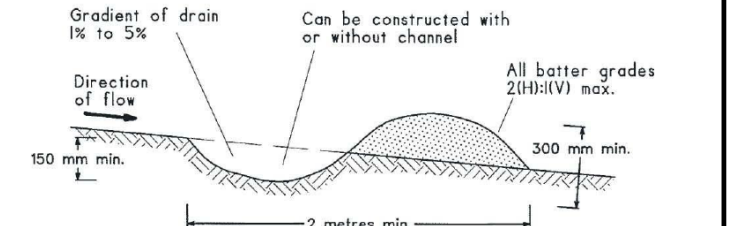


**STABILISED SITE ACCESS - CONSTRUCTION NOTES**  
1. STRIP TOPSOIL AND LEVEL SITE.  
2. COMPACT SUBGRADE.  
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.  
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.  
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

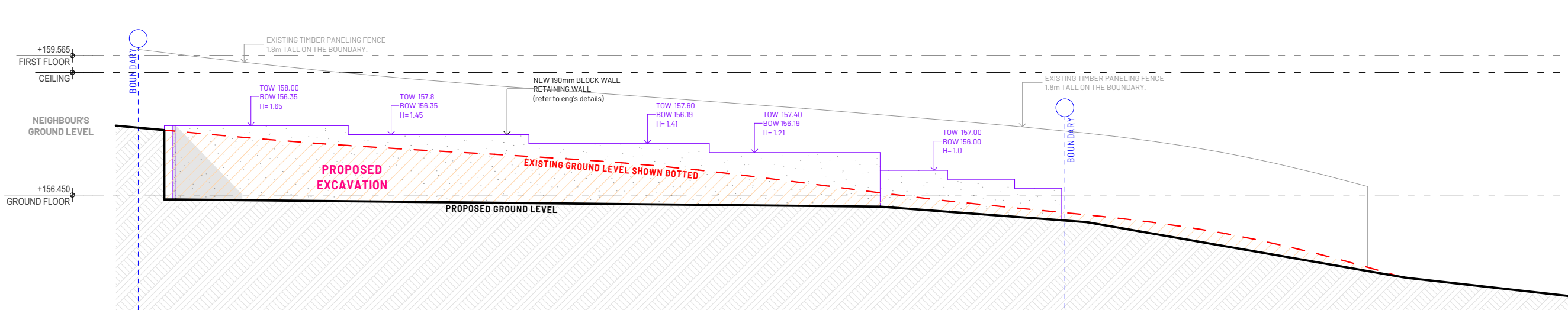
**CONSTRUCTION NOTES**  
1. SITE WORKS WILL NOT START UNTIL THE EROSION AND SEDIMENT CONTROL WORKS OUTLINED IN THE CLAUSES 2 TO 4, BELOW, ARE INSTALLED AND FUNCTIONAL.  
2. THE ENTRY TO AND DEPARTURE OF VEHICLES FROM THE SITE WILL BE CONFINED TO ONE STABILISED POINT. SEDIMENT OR BARRIER FENCING WILL BE USED TO RESTRICT ALL VEHICULAR MOVEMENTS TO THAT POINT. STABILISATION WILL BE ACHIEVED BY EITHER:  
- CONSTRUCTION A SEALED (EG CONCRETE OR ASPHALT) DRIVEWAY TO THE STREET.  
- CONSTRUCTION A STABILISED SITE ACCESS FOLLOWING STANDARD DRAWING SD 6-14 OR OTHER SUITABLE TECHNIQUE APPROVED BY THE COUNCIL.  
3. SEDIMENT FENCES (SD 6-8) AND BARRIER FENCES WILL BE INSTALLED AS SHOWN ON THE ATTACHED DRAWING.  
4. TOPSOIL FROM THE WORKS AREA WILL BE STRIPPED AND STOCKPILED (SD 4-1) FOR LATER USE IN LANDSCAPING THE SITE.  
5. ALL STOCKPILES WILL BE PLACED IN THE LOCATION SHOWN ON THE ESCP AND AT LEAST 2 METRES CLEAR OF ALL AREAS OF POSSIBLE AREAS OF CONCENTRATED WATERFLOW, INCLUDING DRIVEWAYS.  
6. LANDS TO THE REAR OF ALLOTMENT AND ON THE FOOTPATH WILL NOT BE DISTURBED DURING WORKS EXCEPT WHERE ESSENTIAL, EG DRAINAGE WORKS ACROSS THE FOOTPATH. WHERE WORKS ARE NECESSARY, THEY WILL BE UNDERTAKEN IN SUCH A WAY TO MINIMISE THE OCCURRENCE OF SOIL EROSION, EVEN FOR SHORT PERIODS. THEY WILL BE REHABILITATED (GRASSED) AS SOON AS POSSIBLE. STOCKPILES WILL NOT BE PLACED ON THESE LANDS AND THEY WILL NOT BE USED AS VEHICLE PARKING AREAS.  
7. APPROVED BINS AND BUILDING WASTE, CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHING LITTER WILL BE PROVIDED AND ARRANGEMENTS MADE FOR REGULAR COLLECTION AND DISPOSAL.  
8. GUTTERING WILL BE CONNECTED TO THE STORMWATER SYSTEM OR THE RAINWATER TANK AS SOON AS PRACTICABLE.  
9. TOPSOIL WILL BE RESPREAD AND ALL DISTURBED AREAS WILL BE STABILISED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS.  
10. ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY AND AFTER RAIN TO ENSURE THEY ARE MAINTAINED IN A FULLY FUNCTIONAL CONDITION.



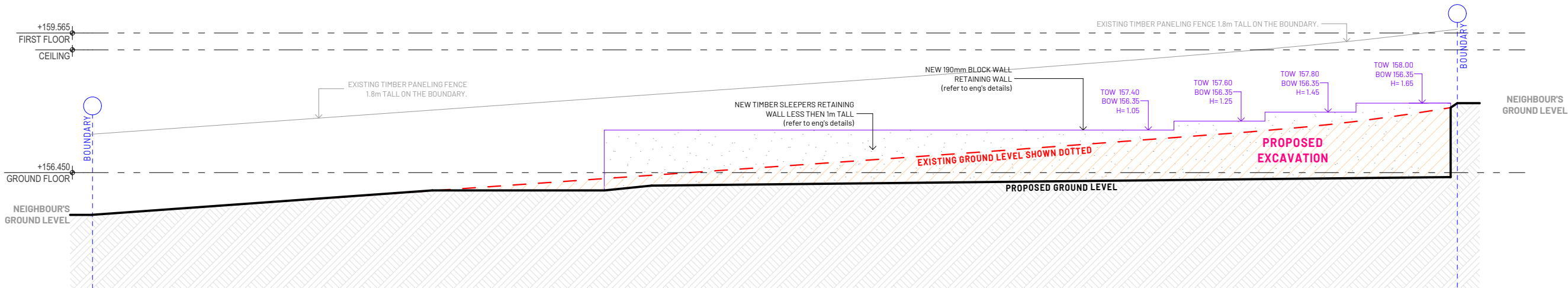
**SEDIMENT FENCE - CONSTRUCTION NOTES**  
1. CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE.  
2. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND.  
3. DIG A 150MM DEEP TRENCH ALONG THE UPSLOPE SIDE OF THE FENCE TO THE BOTTOM OF THE FABRIC TO THE ENTRENCHED.  
4. FIX SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF PICKETS WITH WIRE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER.  
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150MM OVERLAP.  
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.



**EARTH BANK (LOW FLOW) - CONSTRUCTION NOTES**  
1. CONSTRUCT WITH GRADIENT OF 1 PER CENT TO 5 PER CENT.  
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE.  
3. DRAINS TO BE OF CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTION NOT V-SHAPED.  
4. EARTH BANKS TO BE ADEQUATELY COMPACTED IN ORDER TO PREVENT FAILURE.  
5. PERMANENT OR TEMPORARY STABILISATION OF THE EARTH BANK TO BE COMPLETED WITHIN 10 DAYS OF CONSTRUCTION.  
6. ALL OUTLETS FROM DISTURBED LANDS ARE TO FEED INTO SEDIMENT BASIN OR SIMILAR.  
7. DISCHARGE RUNOFF COLLECTED FROM UNDISTURBED LANDS ONTO EITHER A STABILISED OR UNDISTURBED DISPOSAL SITE WITHIN THE SAME SUBCATCHMENT AREA FROM WHICH THE WATER ORIGINATED.  
8. COMPACT BANK WITH A SUITABLE IMPLEMENT IN SITUATION WHERE THEY ARE REQUIRED TO FUNCTION FOR MORE THAN FIVE DAYS.  
9. EARTH BANKS TO BE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT WILL IMPEDE NORMAL FLOW.



01 ELEVATION 1  
1:100



02 ELEVATION 2  
1:100



THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE CONDITIONS OF DEVELOPMENT CONSENT

DA2022/0978

- AUSTRALIAN STANDARDS & BCA**
- ALL WORKS TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA & OTHER
- RELEVANT STATUTORY & LOCAL REGULATION CODES & MANUFACTURER'S RECOMMENDATIONS & INSTRUCTIONS.
1. INSTALL ALL SMOKE ALARM'S ACCORDANCE TO PART 3.7.5 OF THE BCA.
  2. ALL HANDRAIL'S TO COMPLY WITH BCA 3.9.1 STAIRWAY & RAMP CONSTRUCTION.
  3. POOL FENCING / GATE TO COMPLY WITH AUSTRALIAN STANDARDS AS 1926.1-2012
  4. GUTTERS/DOWNPIPES - COMPLY TO AS/NZS 3500.3.2
  5. ALL WINDOW OPENINGS IN BEDROOMS WHERE THE LEVEL BELOW IS MORE THAN 2M TO BE RESTRICTED TO COMPLY WITH N.C.C cl 3.9.2.5

- GENERAL NOTES**
1. ALL DIMENSIONS AND FLOOR AREA ARE TO BE VERIFIED BY BUILDER.
  2. LEVELS SHOWN ARE APPROXIMATE UNLESS ACCOMPANIED BY REDUCED LEVELS BY A REGISTERED SURVEYOR.
  3. WRITTEN DIMENSIONS ARE TO BE TAKEN IN PREFERENCE TO SCALING.
  4. ALL BOUNDARY CLEARANCES MUST BE VERIFIED BY THE SURVEYOR PRIOR TO THE COMMENCEMENT OF ANY BUILDING WORK.
  5. WHERE ENGINEERING OR HYDRAULIC DRAWINGS ARE REQUIRED, SUCH MUST TAKE PREFERENCE TO THIS DRAWING.
  6. STORMWATER TO BE CONNECTED AND DISCHARGED TO COUNCIL'S REQUIREMENTS AND TO AS 3500.3 - 1990.
  7. ALL SERVICES TO BE LOCATED AND VERIFIED BY THE BUILDER WITH THE RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY BUILDING WORKS.
  8. LOCATION OF SERVICES ARE APPROXIMATE ONLY, AND SUBJECT TO SITE CONDITION AS DETERMINED BY BUILDER.
  9. ALL SERVICES TO BE LOCATED AND VERIFIED BY THE BUILDER WITH THE RELEVANT AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY BUILDING WORKS.
  10. ALL CONSTRUCTION TO CONFORM TO NCC AUSTRALIAN STANDARDS.

- ☉ SMOKE ALARM  
[EF] EXHAUST FAN  
[LOH] LIFT OF HINGES

- ADDITIONAL NOTES**
1. REFER SCHEDULE OF MATERIALS & COLOURS FOR FURTHER DETAIL.
  2. EXPANSION JOINTS TO BE PROVIDED AS PER BCA / AUSTRALIAN STANDARDS.

- STORMWATER NOTES**
1. STORMWATER TO BE CONNECTED TO EXISTING. OVERFLOW TO NEAREST STREET OUTLET.
  2. RAINWATER PLUMBING CONNECTED AS PER BASIX CERTIFICATE.



MASONRY BLOCK & CAPPED  
RETAINING WALL

AUSTRALIAN STANDARDS AND BCA  
ALL WORKS TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS, THE BUILDING CODE OF AUSTRALIA AND OTHER RELEVANT STATUTORY AND LOCAL REGULATION CODES AND WITH MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS.

- EARTHWORKS
- GUTTERS / DOWNPIPES
- FOOTINGS AND SLABS
- MASONRY
- GLAZING
- SMOKE ALARMS
- WATERPROOFING WET AREAS
- ARTIFICIAL LIGHTING
- MECHANICAL VENTILATION
- STAIR CONSTRUCTION
- BALUSTRADES

smith&

smith & smith studio  
architectural drafting & building design

client  
**ANDREW IEMMA**  
project  
**RETAINING WALLS**  
site address  
**10 COURTLEY ROAD, BEACON HILL,  
NSW, 2100**

DA01 rev 18/05/2022 DA ISSUE revision notes KS by

project No.  
**20-057**

RETAINING WALLS

|       |       |         |            |        |   |
|-------|-------|---------|------------|--------|---|
| 0     | 1     | 2       | 3          | metres | 4 |
| stage | drawn | checked | scale @ A3 |        |   |
| DA    | KS    | KS      | 1:100      |        |   |

drawing  
**ELEVATIONS**

lot no. | D.P. no. | dwelling type  
**Lot 7 | D.P. 238331**

drawing #  
**00.05**  
revision  
**DA01**

DEVELOPMENT APPLICATION



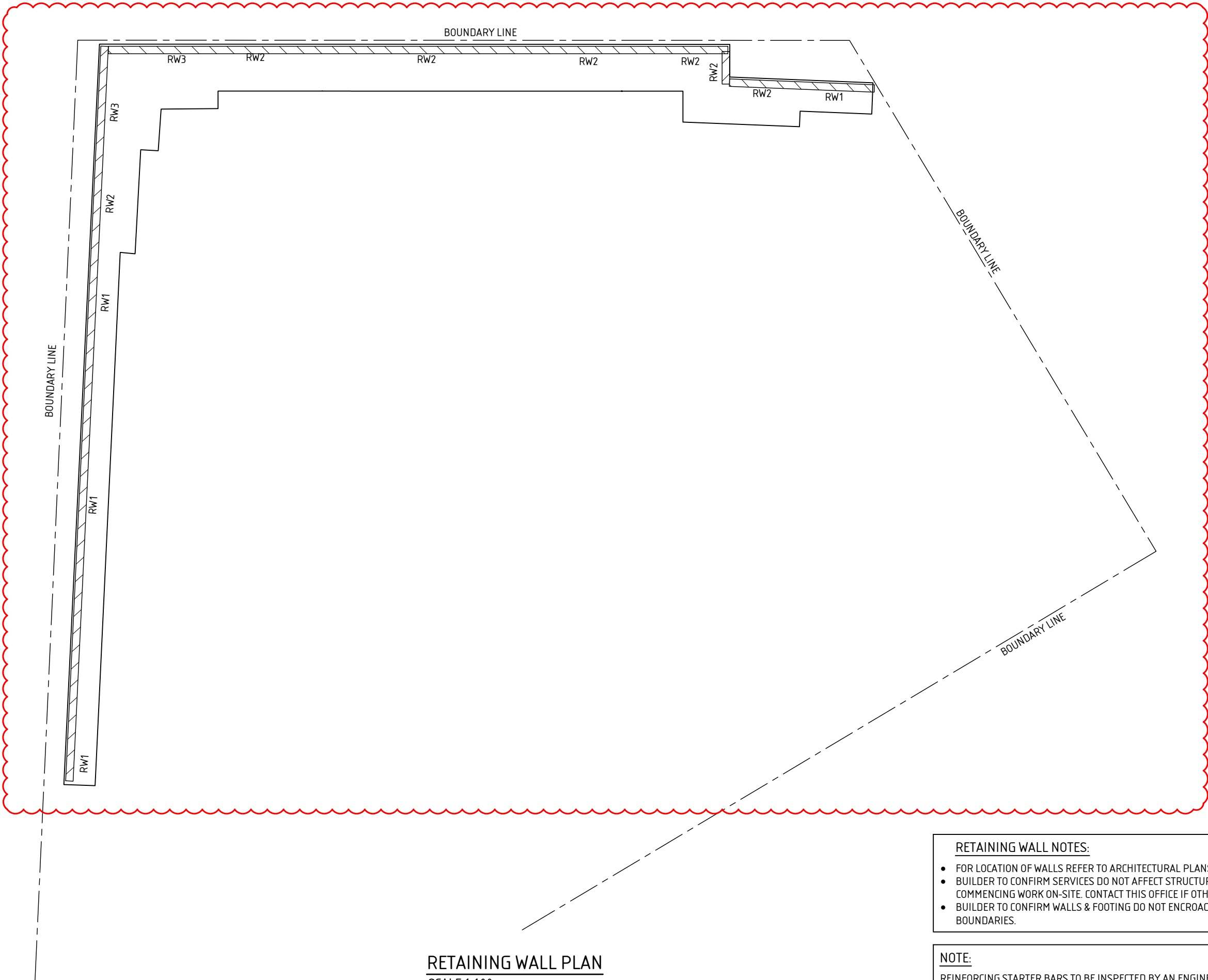


northern  
beaches  
council

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CONJUNCTION WITH  
THE CONDITIONS OF DEVELOPMENT  
CONSENT

DA2022/0978

| GEOTECHNICAL INFORMATION |             |            |
|--------------------------|-------------|------------|
| SOIL CLASSIFICATION:     | P           | (DESIGN M) |
| SOIL TEST REFERENCE:     | 2.22.2461.1 |            |
| DATE:                    | 24/02/22    |            |



RETAINING WALL NOTES:

- FOR LOCATION OF WALLS REFER TO ARCHITECTURAL PLANS.
- BUILDER TO CONFIRM SERVICES DO NOT AFFECT STRUCTURE BEFORE COMMENCING WORK ON-SITE. CONTACT THIS OFFICE IF OTHERWISE.
- BUILDER TO CONFIRM WALLS & FOOTING DO NOT ENCROACH OVER SITE BOUNDARIES.

NOTE:

REINFORCING STARTER BARS TO BE INSPECTED BY AN ENGINEER FROM THIS OFFICE PRIOR TO INSTALLATION OF BLOCK WALL.

APPROVED  
GERVASE PURICH  
CIVIL ENGINEER  
FIEAust. CPEng, NER, BPB, RBP, RPEQ No. 11656

CLIENT  
ANDREW IEMMA  
  
CLIENT REFERENCE. No.

SHEET  
RETAINING WALL PLANS  
  
SCALE - 1:100 @ A3

PROJECT ADDRESS  
LOT 7 NO. 10 COURTLEY ROAD,  
BEACON HILL. NSW



STRUCterre

consulting

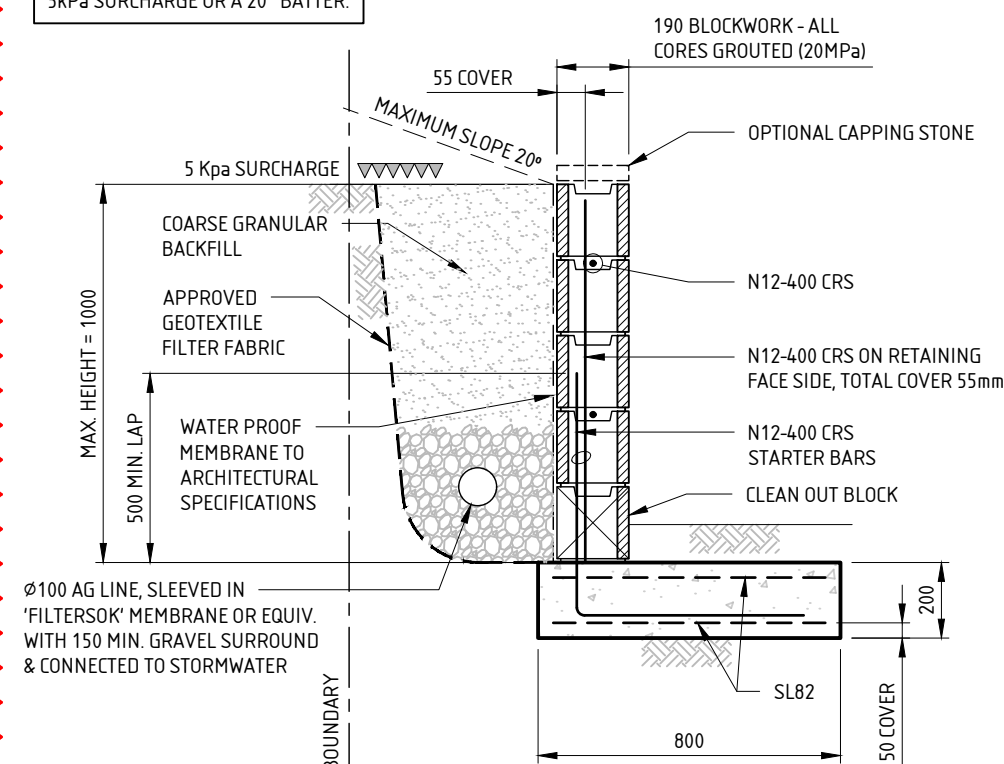
TEL (02) 9475 3000 FAX (02) 9646 2311 EMAIL: sydney@structerre.com.au

REVISION  
  
A  
  
DATE  
01/06/22

PROJECT NO.  
3.22.5264.2  
  
SHEET NO.  
S-101

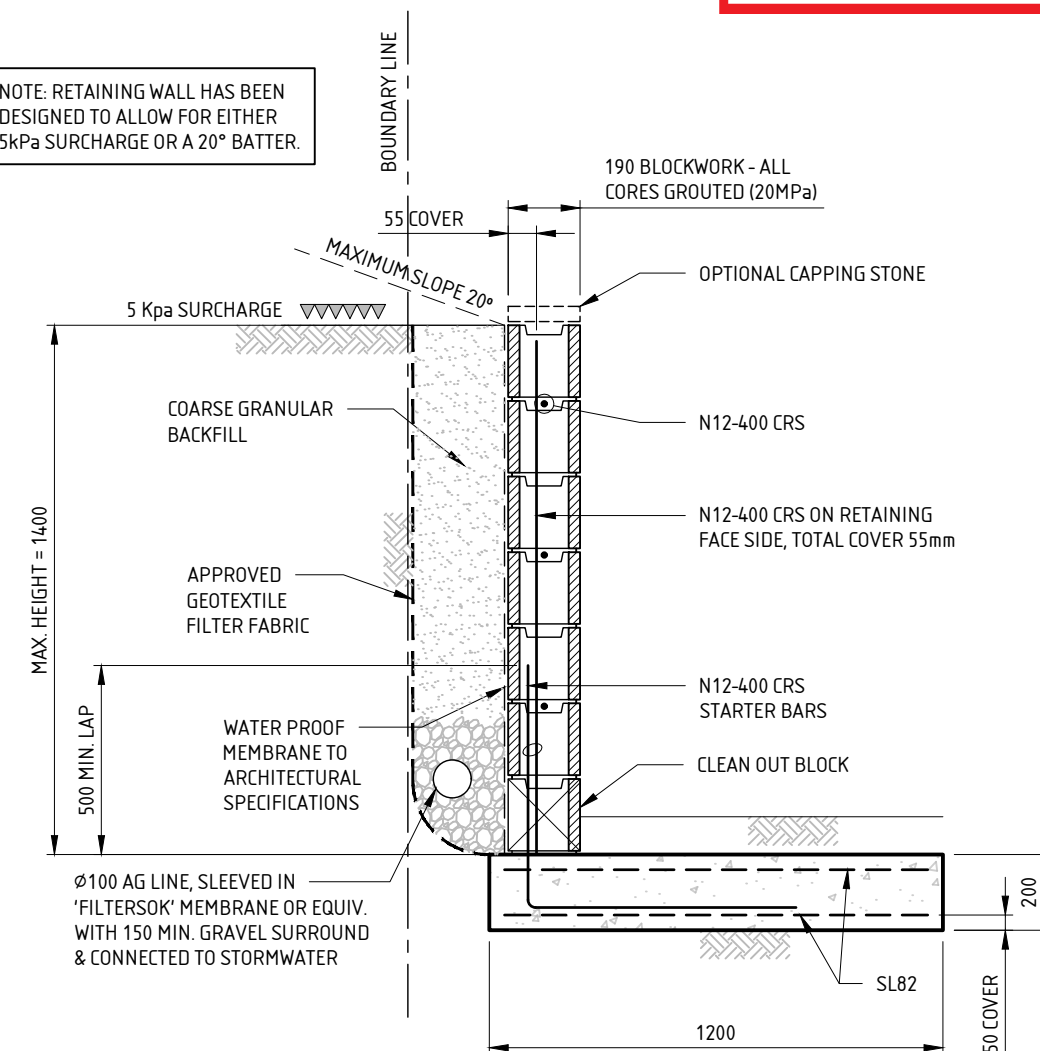


NOTE: RETAINING WALL HAS BEEN  
DESIGNED TO ALLOW FOR EITHER  
5kPa SURCHARGE OR A 20° BATTER.



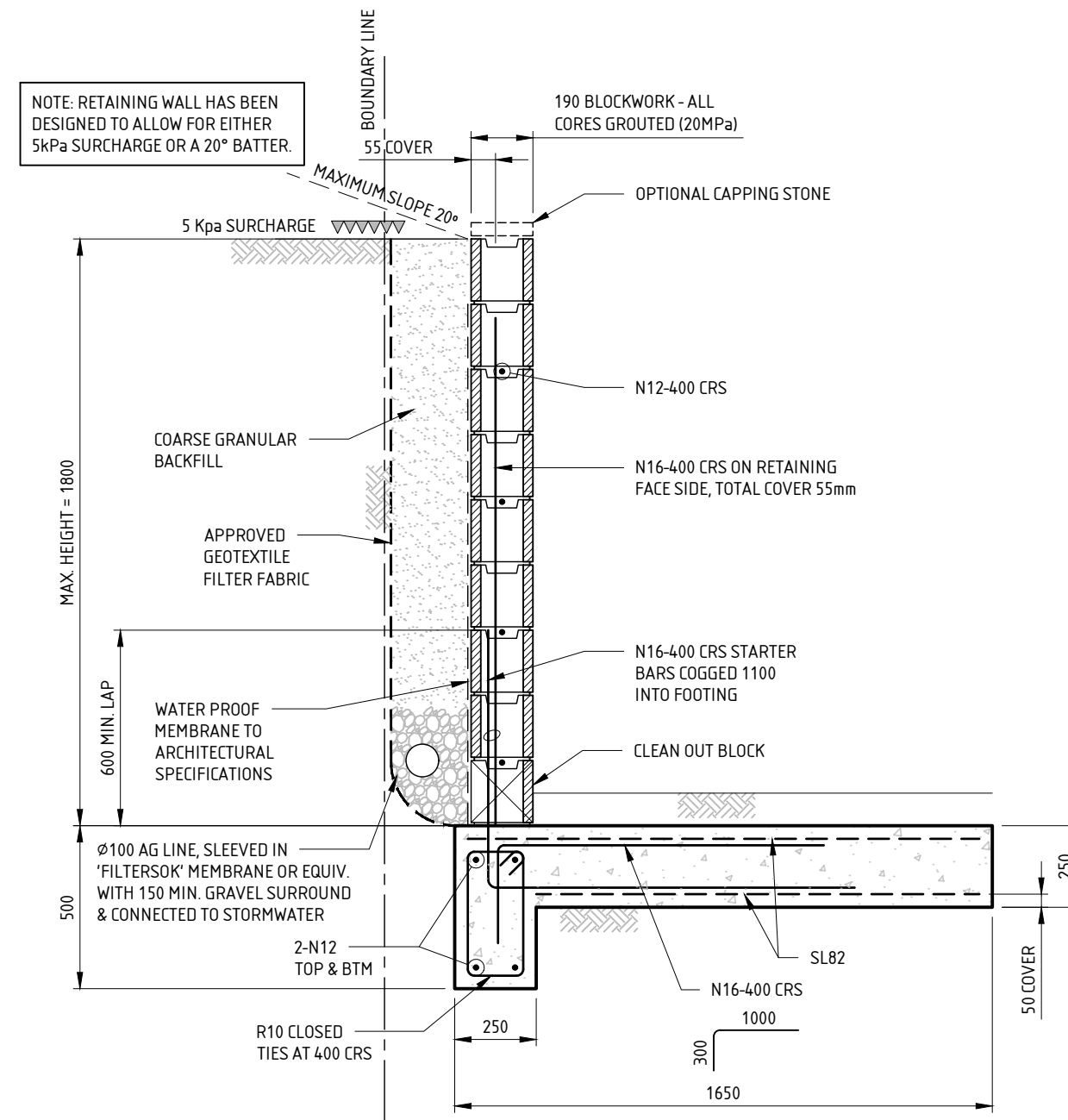
**MAX. 1000mm TYPICAL RETAINING  
WALL DETAIL (RW1)**

NOTE: RETAINING WALL HAS BEEN  
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5kPa SURCHARGE OR A 20° BATTER.



**MAX. 1400mm TYPICAL  
RETAINING WALL DETAIL (RW2)**





MAX. 1800mm TYPICAL  
RETAINING WALL DETAIL (RW3)



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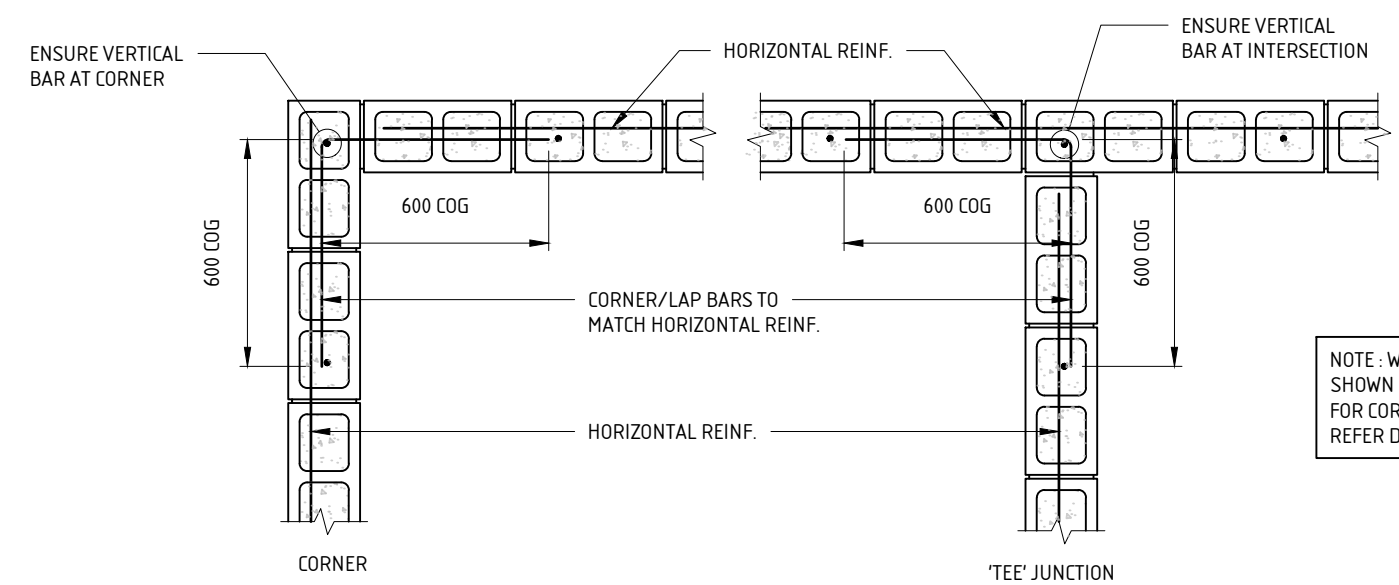
**DA2022/0978**

### BRICKWORK & BLOCKWORK

- B.1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3700.
- B.2 STRENGTH OF BRICKS, CLASS OF BLOCKS AND TYPE OF MORTAR SHALL BE AS TABULATED, AND SHALL BE VERIFIED BY TESTS ACCORDING TO RELEVANT STANDARDS.

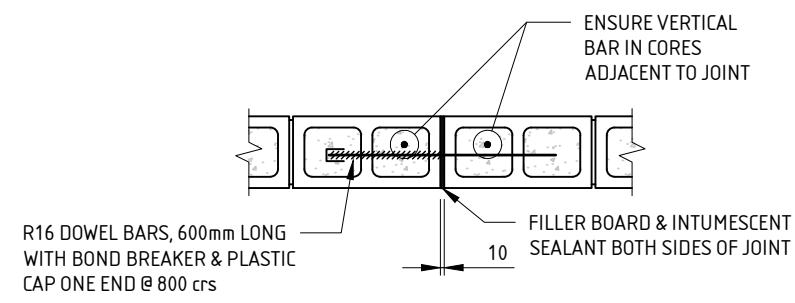
| ELEMENT | MATERIAL    | CHARACTERISTIC UNCONFINED COMPRESSIVE STRENGTH (f <sub>uc</sub> ) | MORTAR TYPE |
|---------|-------------|---|-------------|
| WALL    | BURNT CLAY  | 12MPa   | 1:1:6       |
| WALL    | CONC. BLOCK | 15MPa   | 1:1:6       |

- B.3 BRICKWORK OR BLOCKWORK SUPPORTING CONCRETE OR STEEL MEMBERS SHALL BE TROWELLED SMOOTH AND SEPARATED AT THE BEARING SURFACE BY APPROVED JOINTING MATERIAL.
- B.4 BRICKWORK AND BLOCKWORK TO BE TIED TO COLUMNS, FLOOR SLABS AND BEAMS.
- B.5 CORES SHALL BE FILLED WITH CONCRETE OF STRENGTH  $f'_{c} = 20\text{MPa}$ . 10mm MAX. AGGREGATE SIZE AND A MAXIMUM SLUMP OF 225mm.
- B.6 CLEAN OUT OPENINGS ARE REQUIRED AT THE BASE OF ALL REINFORCED WALLS AND ABOVE HORIZONTAL CONSTRUCTION JOINTS.
- B.7 PROVIDE SEALED CONTROL JOINTS @ 8.0m CTRS MAX. ALL BRICKWORK SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN THE CONCRETE.
- B.8 ALL BLOCKS SHALL BE DRY WHEN LAID. FACE SHELLS AND CROSS WEBS SHALL BE FULLY BEDDED.
- B.9 REINFORCEMENT PROJECTING FROM FOUNDATIONS OR SLABS INTO CORES SHALL BE SET ACCURATELY IN PLACE USING TEMPLATES TO ALIGN WITH THE CENTRE OF THE LENGTH OF CORES AND WITH COVER AS NOTED. COVER SHALL BE MEASURED FROM THE INNER FACE OF THE BLOCK U.N.O. AND SHALL BE SUCH THAT GROUT MAY BE SOLIDLY COMPACTED BETWEEN THE BAR AND THE SHELL. WHERE HORIZONTAL BARS ARE INDICATED, THE WEBS OF THE BLOCKS BELOW THE BARS SHALL BE CUT DOWN TO ACCOMMODATE THE BARS.
- B.10 CORES SHALL BE GROUTED WHERE INDICATED OR NOTED. GROUTING SHALL TAKE PLACE AT INTERVALS OF NOT MORE THAN 2400mm. GROUT SHALL BE PLACED IN LIFTS OF 1200mm AND COMPACTED BY POKER VIBRATOR. A SHORT TIME SHOULD ELAPSE BETWEEN SUCCESSIVE LIFTS TO ALLOW PLASTIC SETTLEMENT TO OCCUR.
- B.11 REINFORCED BLOCKWORK RETAINING WALLS SHALL NOT BE BACKFILLED UNTIL 14 DAYS AFTER THE WALL HAS BEEN GROUTED, OR IF APPLICABLE, UNTIL AFTER THE RETAINING SLAB OVER HAS BEEN POURED AND CURED FOR 7 DAYS. BACKFILL TO RETAINING WALLS TO BE FREE DRAINING GRANULAR MATERIAL PROVIDE SUBSOIL DRAIN OR WEEP HOLES.
- B.12 BRICKWORK SUPPORTING SLABS AND BEAMS SHALL HAVE GALVANISED SLIDING JOINT STRIPS COMPRISING 2 GALVANISED STRIPS WITH GRAPHITE GREASE BETWEEN THEM ( 'SWAN' JOINT STRIPS OR EQUIVALENT)
- B.13 NO MASONRY WALLS ARE TO BE ERECTED ON SUSPENDED SLABS OR BEAMS UNTIL ALL PROPPING HAS BEEN APPROVED.
- B.14 BUILDER TO PROVIDE TEMPORARY PROPPING TO ALL WALLS WHERE REQUIRED FOR STABILITY DURING CONSTRUCTION.
- B.15 NO CHASES OR RECESSES ARE PERMITTED IN LOAD BEARING MASONRY WITHOUT THE APPROVAL OF THE ENGINEER.



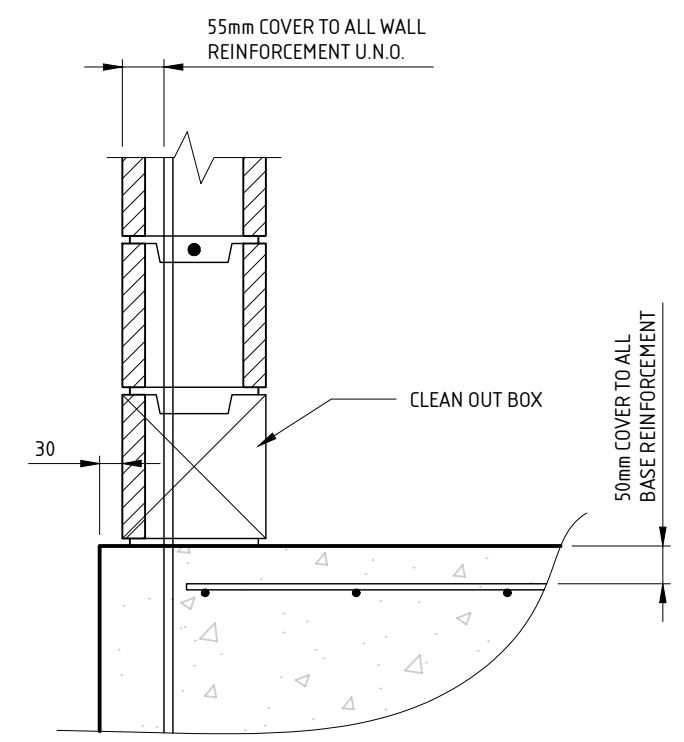
### WALL INTERSECTIONS

NOTE : WALL VERTICAL BARS ARE SHOWN DIAGRAMMATICALLY ONLY. FOR CORRECT SPACING AND LOCATION REFER DETAILS ELSEWHERE.



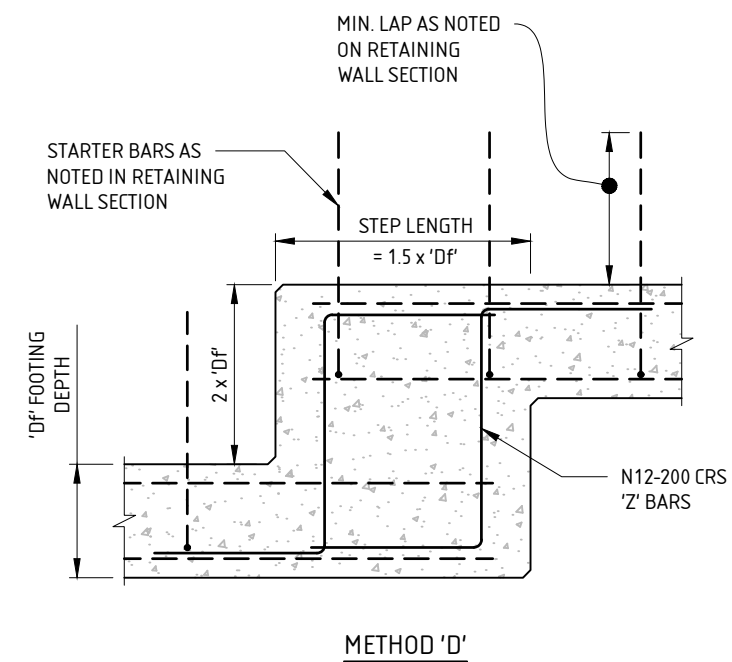
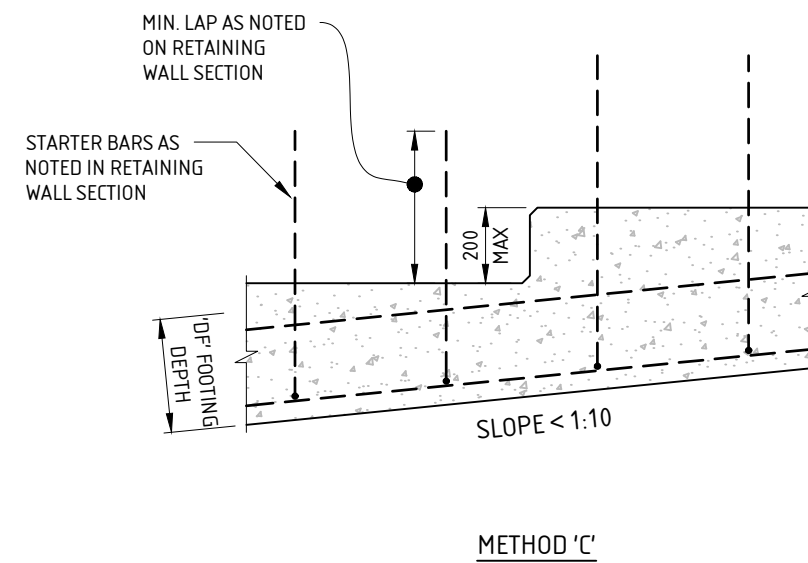
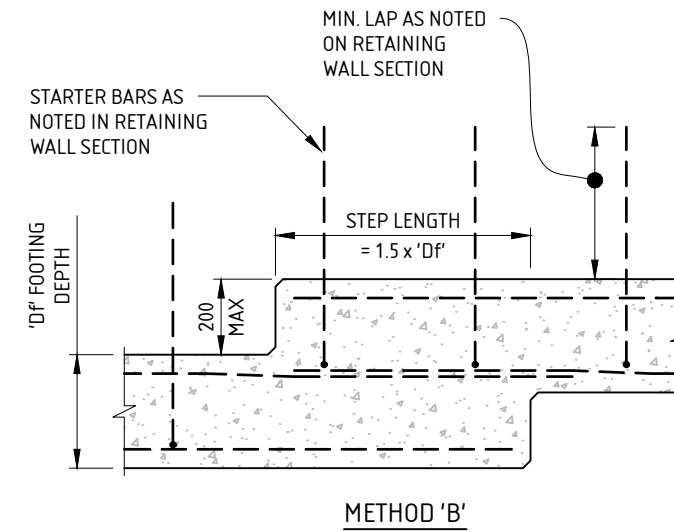
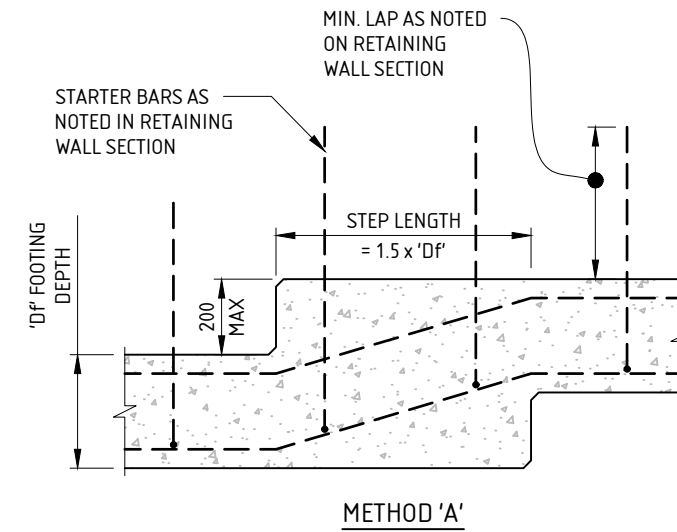
### BLOCKWORK WALL CONTROL JOINT DETAIL

PROVIDE SEALED CONTROL JOINTS @ 8.0m CTRS MAX. ALL BLOCKWORK SUPPORTING OR SUPPORTED BY CONCRETE FLOORS SHALL BE PROVIDED WITH VERTICAL JOINTS TO MATCH ANY CONTROL JOINTS IN THE CONCRETE.



### TYPICAL DETAIL

SCALE 1:10



### METHODS FOR STEPPING RETAINING WALL FOOTINGS (ELEVATION)

BEND REINFORCEMENT ON SITE TO MAINTAIN COVER  
(FOR FOOTING REINFORCEMENT & DEPTH REFER TO RETAINING WALL DETAILS)



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