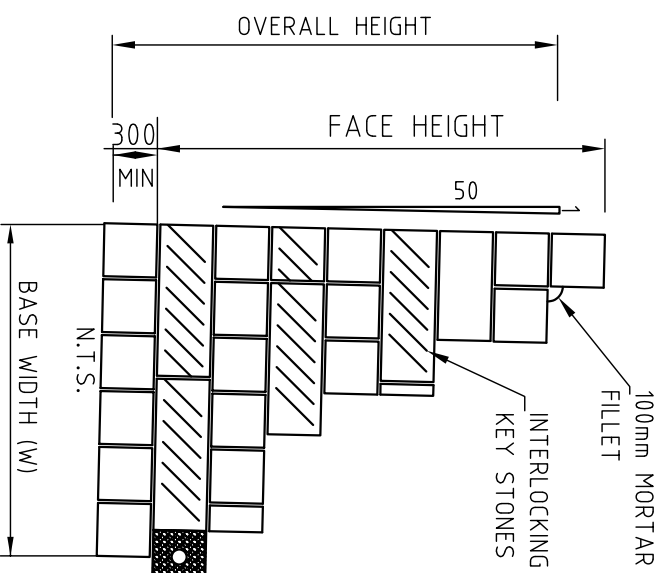
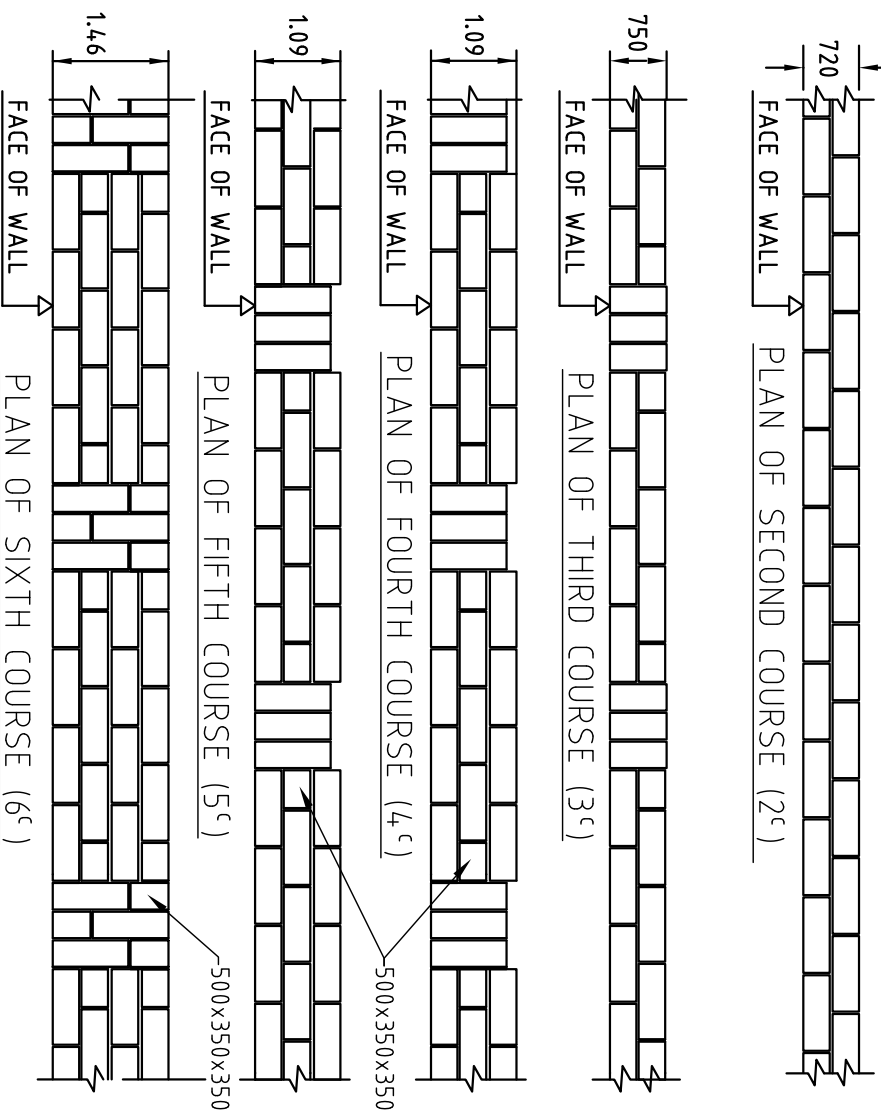
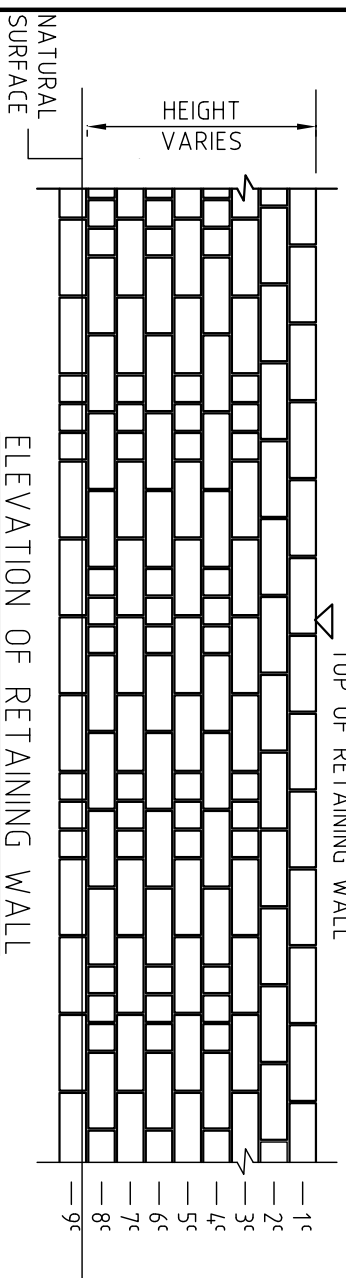


COURSE No.	OVERALL HEIGHT	FACE HEIGHT	MIN. BASE WIDTH AT COURSE (W)
1c	-	-	-
2c	0.72	0.42	0.72m
3c	1.09	0.79	0.72m
4c	1.46	1.16	1.09m
5c	1.83	1.53	1.09m
6c	2.20	1.90	1.46m
7c	2.57	2.27	1.83m
8c	2.94	2.64	1.83m
9c	3.31	3.01	2.25m



100 mm Dia. SUB-SOIL DRAIN WRAPPED IN GEOFABRIC SOCK SURROUNDED BY MIN 300 mm 20 mm BLUEMETAL MIN GRADIENT 1:100

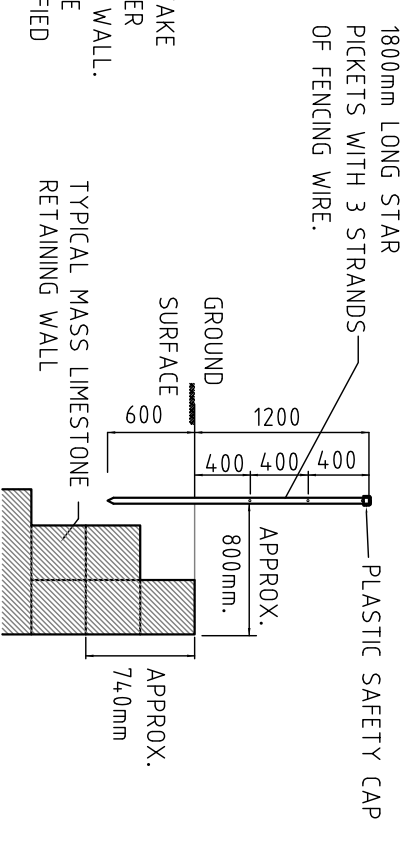


## NOTES:

- WHERE PROPOSED RETAINING WALL MEETS FUTURE, WALL TO BE EXTENDED 2m PAST LOT BOUNDARY AT THE TOP OF WALL TAPERING DOWN TO BASE OF WALL.
- WALLS ARE DESIGNED TO TAKE INTO ACCOUNT THE LOADINGS OF A SINGLE STORY RESIDENCE, WITH A 1.0m SETBACK FROM THE BOUNDARY LINE. INDEPENDENT ENGINEERING ADVICE SHALL BE SOUGHT FOR A DOUBLE STORY RESIDENCE.
- SCREEN FENCES INSTALLED ONTO RETAINING WALLS SHALL BE DESIGNED FOR STABILITY INDEPENDANT OF THE RETAINING WALL IF RETAINING WALL IS LESS THAN 1.10m IN HEIGHT.
- TEMPORARY SAFETY FENCING TO BE 1800mm. LONG STAR PICKETS DRIVEN IN 600mm. WITH THREE STRANDS OF 3.15mm. (10 GAUGE) PLAIN FENCING WIRE.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED AT MAXIMUM SEPARATION OF 3.5m.
- SAFETY FENCING WIRE TO BE DRAWN HAND TIGHT.
- SAFETY FENCE STAR PICKETS TO BE INSTALLED ON EITHER SIDE OF LOT BOUNDARIES. STAR PICKETS AT EITHER SIDE OF LOT BOUNDARY TO HAVE MAXIMUM SEPARATION OF 100mm. WHERE NOT SEPARATED BY A RETAINING WALL.
- SAFETY FENCING WIRE TO TERMINATE AT STAR PICKETS ON EITHER SIDE OF LOT BOUNDARIES. ADJACENT STAR PICKETS AT LOT BOUNDARIES TO BE JOINED AT THE TOP WITH A SINGLE STRAND OF FENCING WIRE.
- SAFETY FENCE STAR PICKETS AT CORNER AND AT FENCE TERMINATION POINTS ON LOT BOUNDARIES TO BE BRACED WITH STAR PICKET ON 45° ANGLE.
- BUILDING LICENCE REQUIRED PRIOR TO COMMENCING WORKS.
- NON-SACRIFICIAL ANTI-GRAFFITI COATING TO BE APPLIED TO WALLS EXPOSED TO ROAD/D.U.P.
- THE RETAINING WALLS HAVE BEEN DESIGNED AND CONSTRUCTED TO TAKE A 1.8m HIGH FENCE INSTALLED WITH POSTS AT A SPACING NO GREATER THAN 2.5m AND EMBEDDED TO A DEPTH OF AT LEAST 600mm IN THE WALL. IT IS INTENDED THAT FENCES SHOULD BE INSTALLED BY A REPUTABLE BUILDING OR FENCING CONTRACTOR WHOSE DESIGNS HAVE BEEN CERTIFIED BY A STRUCTURAL ENGINEER.
- IF A SWIMMING POOL IS TO BE CONSTRUCTED IN ANY PROXIMITY TO THE WALLS IT IS ADVISABLE THAT INDEPENDENT ADVICE FROM A CERTIFIED STRUCTURAL ENGINEER BE OBTAINED.
- WALLS SHALL BE CONSTRUCTED FROM 1000 LONG x 350 x 350 RECONSTITUTED LIMESTONE BLOCKS WITH A MASS PER UNIT VOLUME OF 1800 Kg/cum TO BE SECURELY MORTARED TOGETHER WITH ALL VOIDS FILLED.
- INTERLOCKING HORIZONTAL AND VERTICAL KEYSTONES SHALL BE PLACED UNIFORMLY THROUGHOUT THE WALL TO MINIMUM SPACING SHOWN ON THE DRAWING.
- MORTAR MIX SHALL BE 1 CEMENT, 1 LIME, 6 SAND.
- GROUND BELOW WALL SHALL BE A MINIMUM OF 300mm OF CLEAN GRANULAR SAND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm OR 95% MAXIMUM DRY DENSITY.
- GROUND IN FRONT OF WALL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PRIOR TO BACKFILLING BEHIND WALL WITH CLEAN, FREE DRAINING SAND.
- SAND BACKFILL TO BE SPREAD IN 300mm LAYERS AND COMPACTED TO A MINIMUM OF 8 BLOWS PER 300mm WHEN TESTED WITH A STANDARD FALLING WEIGHT PENETROMETER. DO NOT BACKFILL UNTIL 7 DAYS AFTER THE LAST BLOCK HAS BEEN LAID. USE ONLY LIGHT COMPACTION EQUIPMENT.

### DESIGN ASSUMPTIONS

- ASSUMED ANGLE OF REPOSE 35°
- RECONSTITUTED LIMESTONE DENSITY 1.8t/m<sup>3</sup>
- SOIL DENSITY 1.7t/m<sup>3</sup>
- ASSUMED 3KPa LIVE LOAD TO TOP OF WALL
- HEIGHTS ARE BASED ON A 350mm HIGH BLOCK WITH 20mm MORTAR COURSE.



TYPICAL SECTION THROUGH TEMPORARY SAFETY FENCING

N.T.S.  
SAFETY FENCING TO BE INSTALLED AS SHOWN FOR ALL RETAINING WALLS THAT ARE 1.0m IN HEIGHT OR OVER.

ALAN MCLEAN ENGINEERING PTY LTD  
67 ARLUNYA AVENUE, BELMONT WA 6104

Mob 041 992 5752 amep@iinet.net.au ABN 49 084 859 727

DESIGNED MJB PAYNE  
DRAWN A.J.MCLEAN  
CHECKED  
DATE APRIL 2020

SCALE: 1:100  
DATUM:

COPYRIGHT © THESE PLANS AND ASSOCIATED SPECIFICATIONS ARE AND ALWAYS REMAIN THE PROPERTY OF ALAN MCLEAN ENGINEERING PTY LTD AND MUST NOT BE GIVEN, LENT, REPROD. HIRED OUT OR OTHERWISE DISPOSED OF OR COPIED WITHOUT THE WRITTEN PERMISSION OF ALAN MCLEAN ENGINEERING PTY LTD.

APPROVED

DATE

DRAWING No : AMENDMENT No: ORIGINAL DRAWING SIZE  
C-22-6-2 A3

LOT 174 FORD STREET, WOODBRIDGE  
RETAINING WALL DETAILS

WAPC 146523