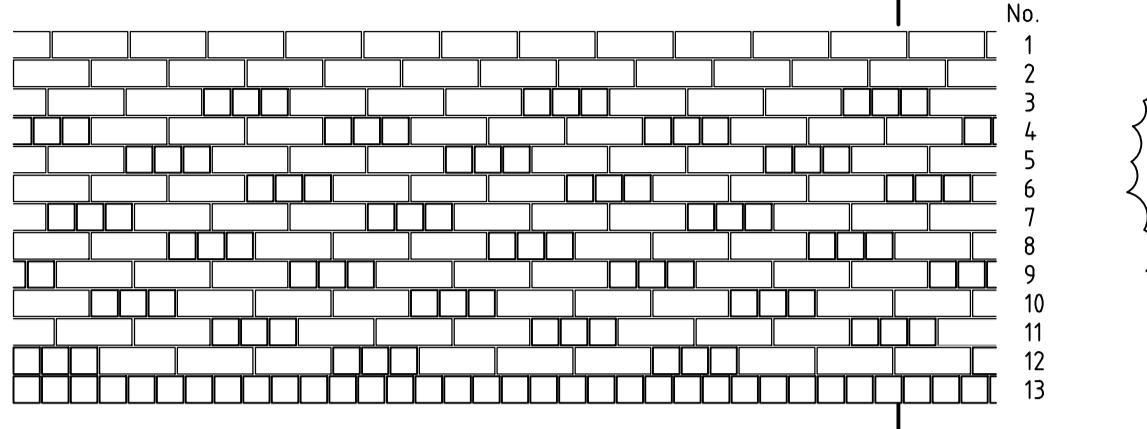
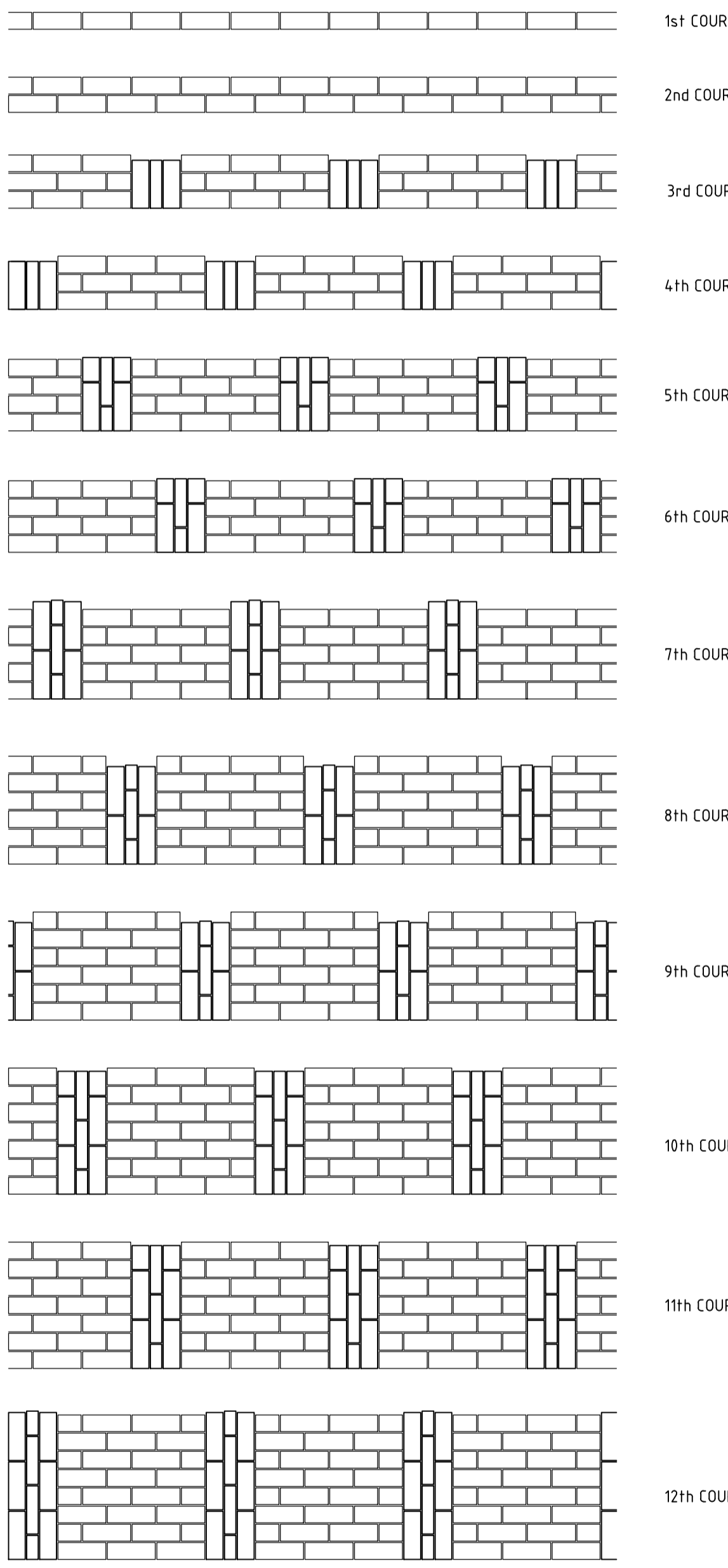


CONTRACTOR TO NOTE BOTTOM COURSE FOR ALL HEIGHT WALLS TO BE LAID AS SOLDER COURSE. INSPECTION OF THE BOTTOM COURSE IS REQUIRED PRIOR TO INSTALLING OTHER COURSES OF THE WALL.



RETAINING WALL COURSING (ELEVATION)
SCALE: 1:100

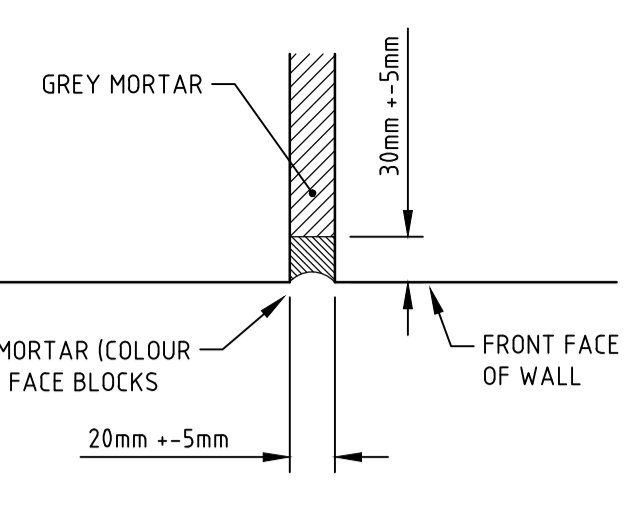
WALL ELEVATION SHOWS LAYING PATTERN FOR THROUGH STONE SETS.



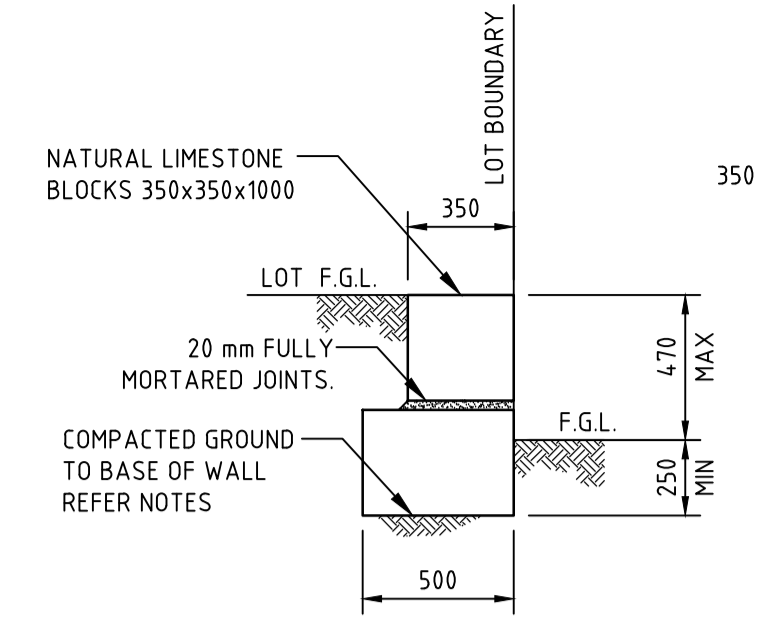
RETAINING WALL COURSING (PLAN)
SCALE: 1:100

3

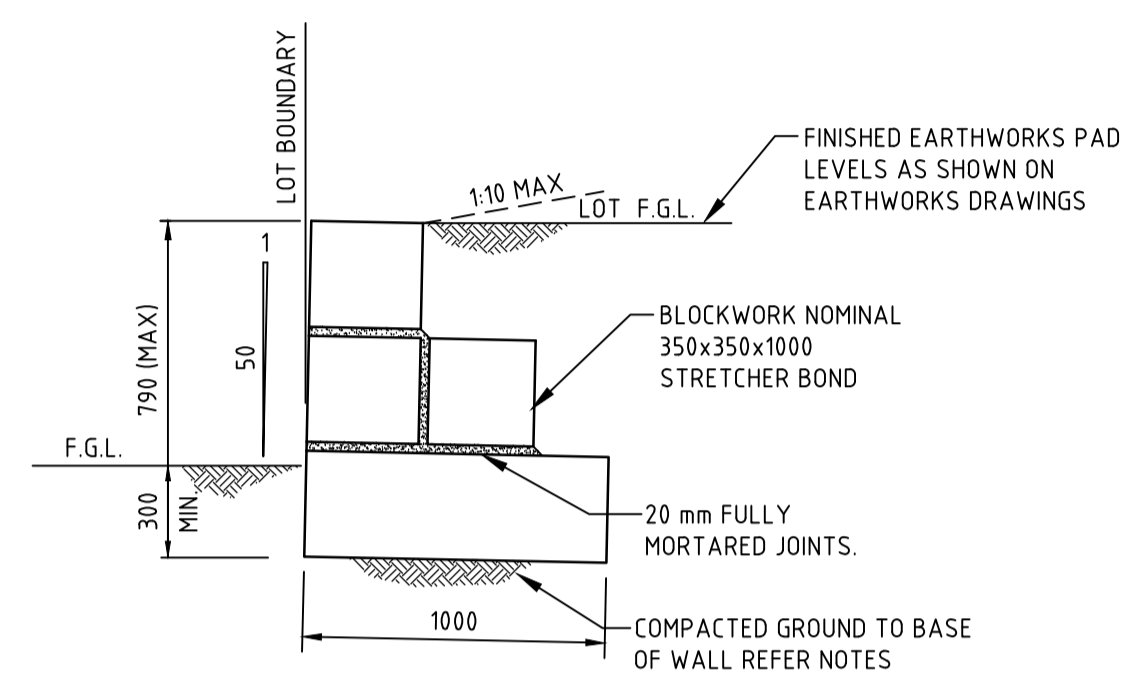
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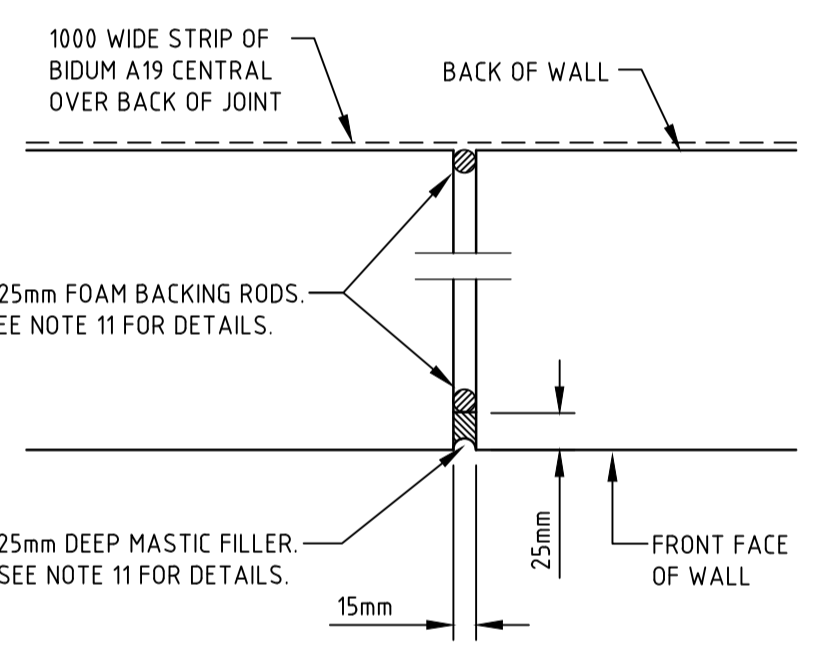
TYPICAL JOINT DETAIL
SCALE: 1:5



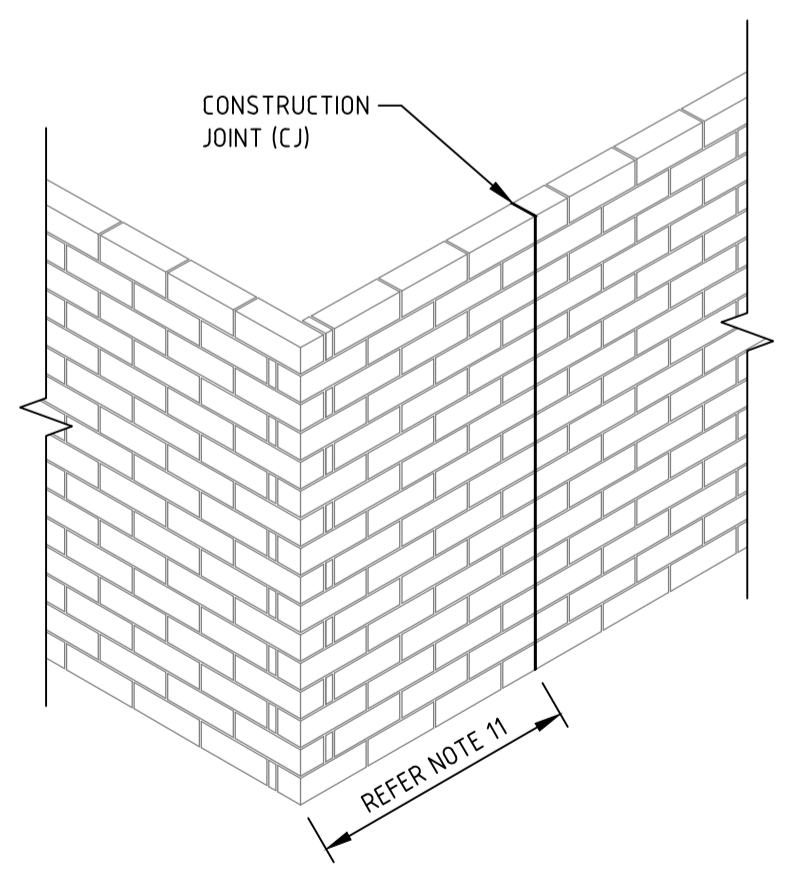
RETAINING WALL 0mm TO 470mm RETAINED
SCALE: N.T.S



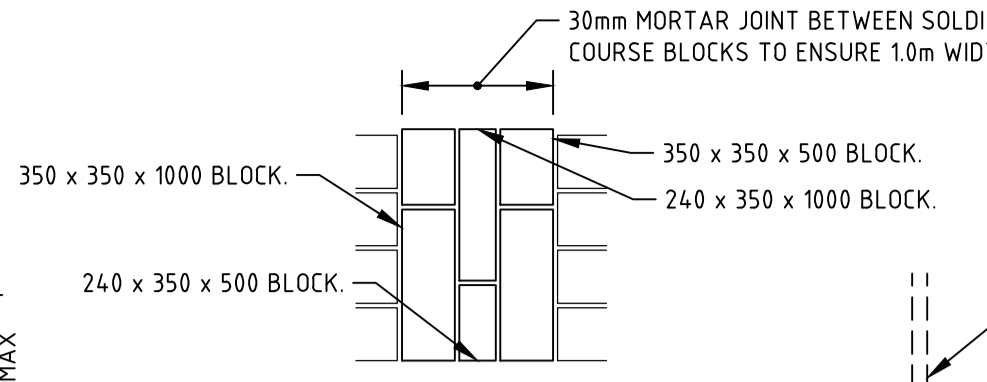
RETAINING WALL 470mm TO 790mm RETAINED
SCALE: N.T.S



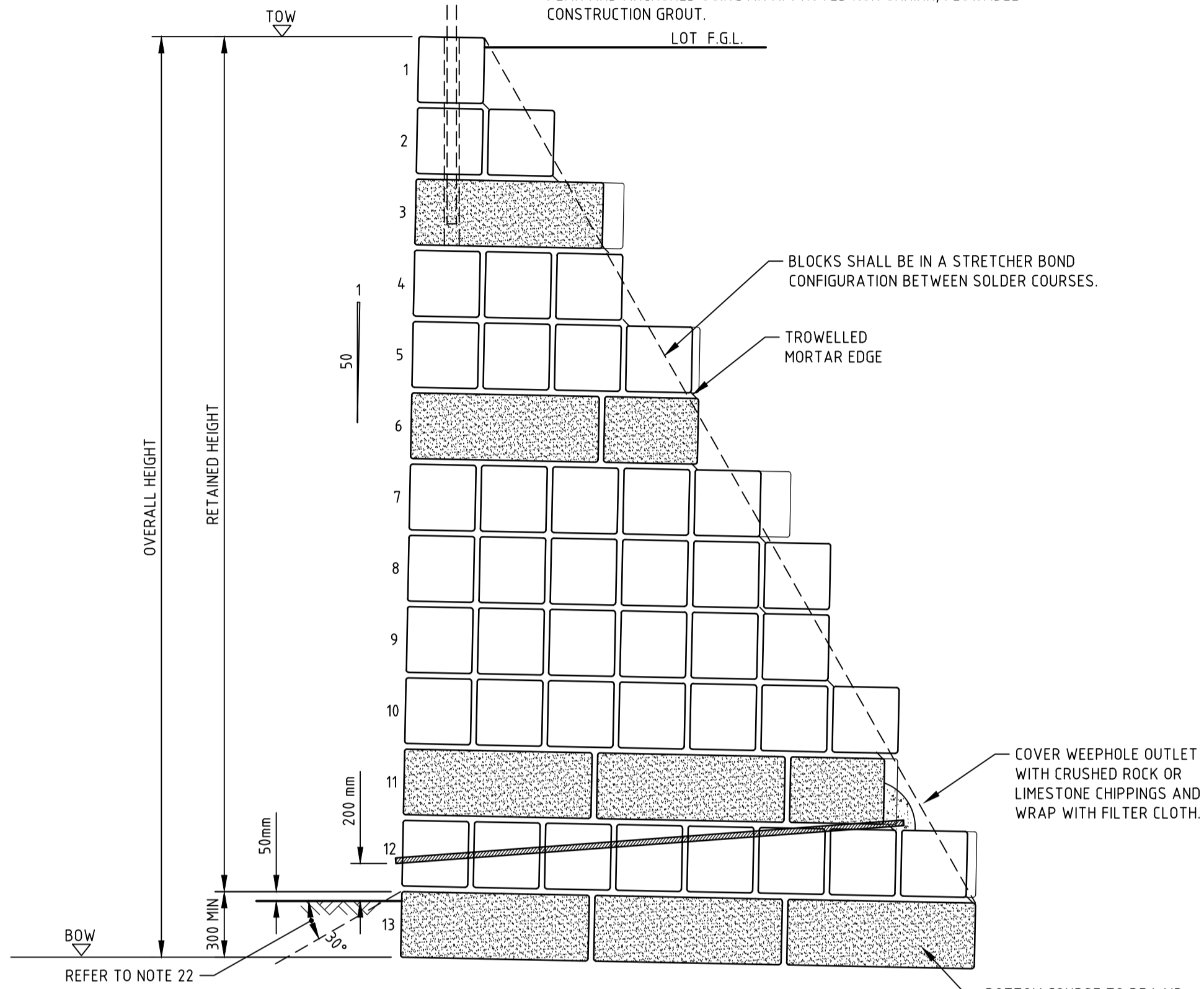
TYPICAL CONTROL JOINT
SCALE: 1:5



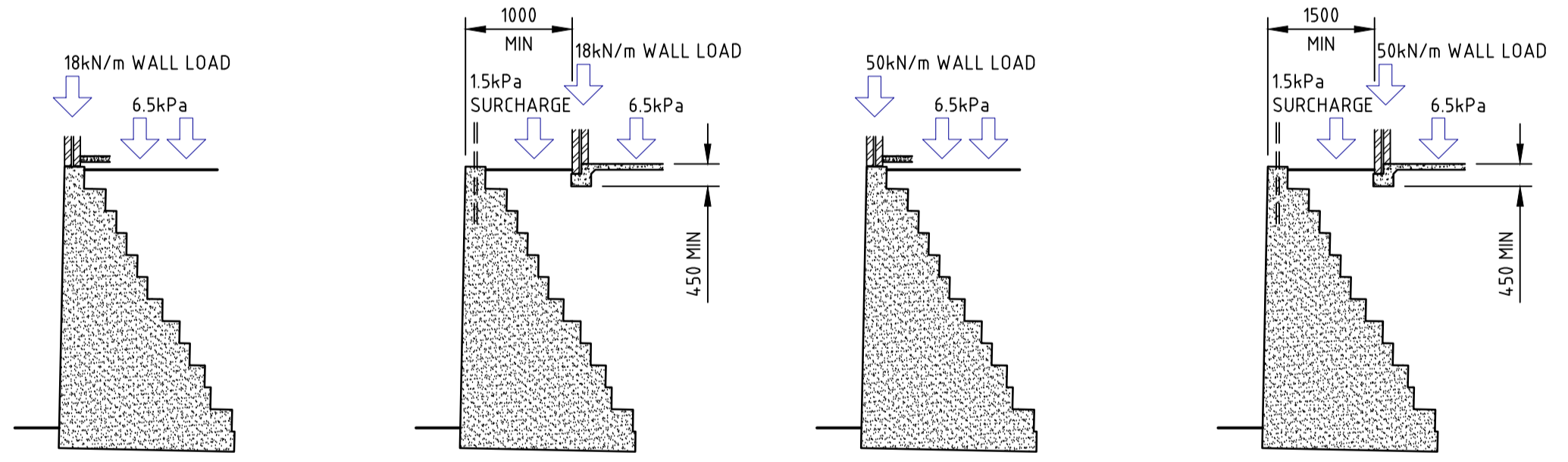
TYPICAL DETAIL OF CONTROL JOINT AT CHANGE OF DIRECTION
SCALE: 1:100



TYPICAL SOLDER COURSE DETAIL
SCALE: 1:200



TYPICAL SECTION A - A
SCALE: N.T.S.



LOADS FOR SINGLE STOREY

LOADS FOR DOUBLE STOREY

- ALL SHOWN LOADS ARE LIVE AND DEAD WORKING LOAD
- THE WALLS ABOVE HAVE BEEN DESIGNED TO CATER FOR THE FOLLOWING LOAD SITUATIONS IN ADDITION TO THOSE SHOWN ABOVE
(a) 15kPa SURCHARGE PLUS WIND LOADING ON FENCE (TC2, WIND REGION "A")
(b) 5kPa SURCHARGE, NO WIND
- FOR ANY OTHER LOAD CASES, CERTIFICATION MUST BE OBTAINED FROM AN INDEPENDENT PRACTICING STRUCTURAL ENGINEER.
- BLOCKS SHALL NOT BE ADDED TO THE TOP OF RETAINING WALLS AND GROUND LEVELS SHALL NOT BE ALTERED IN THE VICINITY OF THE WALLS FOLLOWING THEIR COMPLETION WITHOUT THE APPROVAL OF AN INDEPENDENT PRACTICING STRUCTURAL ENGINEER.
- WHERE FENCES ARE SHOWN THESE WALLS HAVE BEEN DESIGNED TO SUPPORT 1.8m HIGH POST AND RAIL FENCING INSTALLED STRICTLY IN ACCORDANCE WITH THE FENCING NOTES OUTLINED ON THIS DRAWING. OTHER FENCE TYPES SUCH AS MASONRY SHALL NOT BE FIXED TO THE WALL UNLESS CERTIFICATION IS OBTAINED FROM AN INDEPENDENT PRACTICING STRUCTURAL ENGINEER.
- ALL TREES MUST BE MAINTAINED TO AVOID IMPACT LOADS TO THE WALLS OR FENCES.
- NO DRIVEWAYS SHALL BE CONSTRUCTED CLOSER THAN 1200 FROM THE FACE OF THE WALL WITHOUT APPROVAL FROM AN INDEPENDENT PRACTICING STRUCTURAL ENGINEER

- NOTES:**
- DETAILS SHOWN ON THIS DRAWING ARE APPLICABLE FOR 350x350x1000 RECONSTITUTED AND NATURAL LIMESTONE BLOCKS WITH 20mm MORTAR JOINTS. THESE WALLS ARE APPLICABLE FOR SANDY SOIL CONDITIONS. MINIMUM SITE CLASSIFICATION IS 'A'. THE DESIGN IS NOT SUITABLE FOR CLAY MATERIALS UNLESS 2.0m OF CLEAN SAND IS PLACED UNDER WALL FOUNDATIONS.
 - RECONSTITUTED AND LIMESTONE BLOCKS SHALL HAVE A MINIMUM DENSITY OF 1800kg/m³ AND A MINIMUM COMPRESSIVE STRENGTH OF 5MPa. TESTS TO BE PROVIDED FOR EACH 1000 BLOCKS OR MINIMUM OF 2 PER CONTRACT.
 - ALL TOP SOIL, VEGETATION DELETERIOUS MATERIALS TO BE REMOVED FROM FOUNDATION.
 - FOUNDATIONS SHALL BE CLEAN GRANULAR SAND COMPACTED TO A MINIMUM 95% MAXIMUM DRY DENSITY, TESTED TO A DEPTH OF 750mm.
 - ANY REGIONS OF THE FOUNDATION DEEMED UNACCEPTABLE BY THE ENGINEER SHALL BE REPLACED WITH CLEAN FILL AND COMPACTED TO THE NECESSARY STANDARDS.
 - ALL WALLS TO BE SET BETWEEN 0-50mm INSIDE LOT BEING RETAINED. IF WALL IS NOT POSITIONED IN THIS LOCATION THE WALL IS TO BE REMOVED AND RECONSTRUCTED AT THE CONTRACTORS EXPENSE. CONTRACTOR IS TO ORGANISE SURVEY OF THE FIRST BLOCK LAID TO ENSURE IT IS IN THE CORRECT POSITION.
 - CONTRACTOR TO OBTAIN BUILDING LICENSE FOR ALL RETAINING WALLS FROM LOCAL AUTHORITY UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CERTIFICATION OF THE LIMESTONE RETAINING WALLS BEING AS-CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL BE RESPONSIBLE FOR THE APPOINTMENT OF A PRACTICING STRUCTURAL ENGINEER TO PROVIDE A LETTER OF CERTIFICATION FOR THE AS-CONSTRUCTED LIMESTONE RETAINING WALLS AT PRACTICAL COMPLETION.
 - COMPLETED BLOCKWORK OF WALL TO BE OF THICKNESS NO LESS THAN MINIMUM PROFILE SHOWN.
 - ALL WALLS WITH AN OVERALL HEIGHT OF 1400mm OR OVER SHALL BE PROVIDED WITH DRAINAGE HOLES AT 4000mm CENTRES. DRAINAGE HOLES SHALL BE DIA 25PVC WITH OUTLETS 150mm ABOVE GROUND LEVEL. PRIOR TO BACKFILLING, THE HOLES SHALL BE COVERED WITH CRUSHED ROCK OR LIMESTONE CHIPPINGS AND COVERED WITH GEOFABRIC FILTER CLOTH. BIDIM A19 OF SIMILAR.
 - CONTROL JOINTS TO BE CONSTRUCTED WITHIN THE RETAINING WALL WHERE NOTED BELOW
a. WHERE THE STRAIGHT LENGTH OF ANY GIVEN WALL EXCEEDS 35m, IN WHICH CASE THE WALL SHALL HAVE CONTROL JOINTS AT DISTANCES NO GREATER THAN 20m WHERE POSSIBLE THESE SHOULD BE PLACED AT LOT BOUNDARIES.
b. WHERE THE WALL CHANGES DIRECTION, IN WHICH CASE THE CONTROL JOINT IS TO BE LOCATED ON ONE SIDE OF THE CHANGE IN DIRECTION, AT A DISTANCE AWAY FROM THE CORNER EQUAL TO 1.5x(W) WIDTH OF THE BASE OF THE WALL.
 - CONTROL JOINTS SHALL BE 15mm WIDE AND FILLED WITH A Ø25mm FOAM BACKING ROD (TOP, FRONT & BACK) COVERED WITH 25mm DEEP MASTIC OF COLOUR TO MATCH WALL MORTAR (FRONT, TOP & BACK OF TOP BLOCK ONLY). JOINTS ARE TO EXTEND THROUGH WALL AND ANY MASONRY FENCES. A 1000mm WIDE STRIP OF BIDUM A14 CLOTH IS TO BE DRAPED OVER THE REAR OF THE JOINT.
 - ALL VOIDS SHALL BE FULLY MORTARED MORTAR MIX TO BE 1 CEMENT : 1 LIME : 6 SAND, WALLS WITHIN 1m OF COAST SHALL HAVE M4 POINTING MORTAR OF MIX 2 CEMENT : 1 LIME : 9 SAND. CONTRACTOR TO ALLOW FOR 1 TEST FOR 50 LINEAR METERS OF WALL AND MINIMUM 2 TESTS PER CONTRACT.
 - POINTING MORTAR IS TO EXTEND A MINIMUM 100mm BELOW FGL ALONG THE FRONT OF THE WALL AND DOWN THE REAR OF THE TOP BLOCK TO 100 BELOW FINISHED LOT LEVEL.
 - GROUND IN FRONT OF WALL SHALL BE COMPACTED TO 95% MAXIMUM DRY DENSITY PRIOR TO BACKFILLING BEHIND WALL WITH CLEAN FREE DRAINAGE SAND.
 - SAND BACKFILL SHALL NOT BE PLACED UNTIL A MINIMUM OF 5 DAYS AFTER THE COMPLETION OF THE WALL UNLESS OTHERWISE INSTRUCTED IN WRITING BY THE STRUCTURAL ENGINEER.
 - ALL BACKFILL SHALL BE GENERALLY SANDY IN NATURE AND FREE FROM ROCK OR DEBRIS. NO HEAVY COMPACTION EQUIPMENT TO OPERATE WITHIN 1200mm FROM THE FACE OF THE WALL FOR H > 800mm; 2000mm FOR WALLS > 800mm
 - BACKFILL BEHIND WALL TO BE COMPACTED TO 95% MAXIMUM DRY DENSITY OR TO SURROUNDING GROUND NATURAL DENSITY, IN MAXIMUM 300 LIFTS. DUE CARE SHALL BE TAKEN DURING COMPACTION ADJACENT TO WALL.
 - BACKFILL SLOPES SHALL NOT EXCEED 1 VERTICAL TO 10 HORIZONTAL.
 - CONTRACTOR TO INSTALL A STAR PICKET FENCE WITH RINGLOCK FENCING BEHIND TOP COURSE OF ALL RETAINING WALLS GREATER THAN 1.0m HIGH. PICKETS TO HAVE CAPS AND A STRAND OF YELLOW TAPE TO BE FIXED TO TOP WIRE OF FENCE AT 2.0m SPACING. CONTRACTOR TO ERECT WARNING SIGNS TO FENCE AT A MAXIMUM OF 5 LOTS APART, AND AT LOCATIONS OF HIGHER RISK AS SPECIFIED BY THE ENGINEER.
 - A NON SACRIFICIAL ANTI GRAFFITI COATING IS TO BE APPLIED TO WALLS FACING A ROAD, P.A.W. (PUBLIC ACCESS WAY) OR P.O.S. & R.O.S. (PUBLIC OPEN SPACE & REGIONAL OPEN SPACE).
 - NO EXCAVATION SHALL OCCUR WITHIN A 30° ZONE TO THE HORIZONTAL ALONG THE FACE OF THE WALL.
 - CONTRACTOR TO REFER TO STD-CI-780 FOR DETAILS OF FOOTING DEEPENING.
 - CONTRACTOR TO REFER TO ELECTRICAL RETICULATION PLANS FOR THE LOCATION OF RETAINING WALL DEEPENING REQUIRED.
 - DRY CUTTING OF RETAINING WALL BLOCKS IS NOT ALLOWED ON SITE.

RETAINING WALL DIMENSIONS FOR WALLS IN EXCESS OF 790 RETAINED

COURSE NUMBER	OVERALL WALL HEIGHT	MINIMUM WIDTH AT COURSE	MINIMUM WIDTH AT SOLDIER COURSE
2	720	500	500
3	1090	1090	1000
4	1460	1090	1000
5	1830	1660	1520
6	2200	1660	1520
7	2570	1830	2020
8	2940	2200	2020
9	3310	2200	2020
10	3680	2570	2540
11	4050	2570	2540
12	4420	2940	3040
13	4790	2940	3040

CONTRACTOR TO ENSURE MINIMUM COURSE WIDTH IS ACHIEVED ON BOTTOM SOLDIER COURSES. HEADER BLOCK WALLS ABOVE 8 COURSES T.B.C WITH ENGINEER.

8/08/2023 9:58:46 AM Antony Omechuk
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No.	REVISION	BY	DATE
3	NOTES AND DETAILS UPDATED	AO	08.08.23
2	ISSUED FOR CONSTRUCTION	AO	15.06.23
1	ISSUED FOR CONSTRUCTION	AO	17.04.23
0	ISSUED FOR CONSTRUCTION	AC	09.03.20
B	FENCING NOTES AMENDED	AC	28.05.19
A	ISSUED FOR INFORMATION	AC	18.10.24

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CLIENT:
PROJECT:
STANDARD DRAWINGS
DRAWING TITLE:
RECONSTITUTED LIMESTONE BLOCK RETAINING WALL - 20mm MORTAR

SCALE: AS SHOWN
FILE: DESIGN 00
HORIZONTAL: -
VERTICAL: -
DESIGN: AC
DRAWN: AC
CHECKED: 00
APPROVED
SURVEY DATUM: AHD
WAPC No:
DATE: OCT 17
CADFILE NAME:
DRAWING No.:
REV.:

THIS PLAN IS NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BELOW
APPROVED
DATE: OCT 17
DRAWING No.: STD-CI-700
REV. 3