

NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND THE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL 1' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES SPECIFICATIONS, POLICIES AND AS3798.
4. EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
5. ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

EARTHWORKS TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS
2. ALL FILL MATERIAL & CUT PLATFORMS ARE TO BE COMPACTED TO 95% STD. COMPACTION.
3. SUBGRADE MATERIAL FOR NEW ROADWAY SHALL BE COMPACTED TO 98% STD. COMPACTION.

TESTING REQUIREMENTS BUILDING PADS / ALLOTMENTS

4. ALL TESTING TO CONFORM WITH AS 3798.
5. WHERE ANY FILL DEPTHS ARE OVER 200mm TESTING IS REQUIRED. COMPACTION TEST TO LEVEL 1 SUPERVISION (GEOTECHNICAL ENGINEER RPEQ CERTIFIED).

TESTING REQUIREMENTS SERVICE / DRAINAGE TRENCHES

- ALL TESTING TO CONFORM WITH AS 3798.
6. TRAFFICABLE AREA:
 - ONE (1) TEST EACH 300mm LAYER (ALL ROAD CROSSINGS)
 - ONE (1) TEST EACH 300mm LAYER (MAX 50m CENTRES)
 8. NON-TRAFFICABLE AREA:
 - ONE (1) TEST EACH 900mm LAYER (MAX 100m CENTRES)

TESTING REQUIREMENTS REMOVAL OF TREE ROOTS

11. ONE (1) TEST PER TREE AFTER GRUBBING OF ROOT SYSTEM

PROOF ROLLING

13. THE CONTRACTOR SHALL PROOF ROLL THE FOLLOWING:
 - (a) SUB-GRADE LAYER
 - (b) ALL SUB-BASE LAYERS
 - (c) BASE LAYER
 - (d) FOOTPATH SUBGRADE (WITHOUT BEDDING MATERIAL)
14. THE SUPERVISING ENGINEER, AT THEIR DISCRETION, MAY RE-PROOF ROLL ANY ROAD PAVEMENT LAYER IF THE SITE RECEIVES MORE THEN 10mm OF RAIN DURING ANY 24 HOUR PERIOD.

SUBGRADE TESTS

1. THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE SUPERINTENDENT WHO SHALL RECOMMEND CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

DUST

1. NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE.
2. THE CONTRACTOR TO PROVIDE A WATER TRUCK AS REQUIRED TO ELIMINATE THE DUST PROBLEM CAUSED BY SITE TRAFFIC.

CONDUITS

1. THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

FILL MANAGEMENT

1. ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
5. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
6. DEPRESSIONS FORMED BY THE REMOVAL OF VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
7. ANY STRUCTURAL CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +3% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH BUILDING SLABS AND ROAD PAVEMENTS.
8. ANY STRUCTURAL, FREE DRAINING SAND FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200mm THICK, FLOODED, IF NECESSARY, AND COMPACTED TO A MINIMUM DENSITY INDEX OF 70% AS PER AS1289 5.5.1 USING A STATIC SMOOTH ROLLER DRUM NOT LESS THAN 10 TONNE IN STATIC WEIGHT.
9. THE PLACEMENT OF ALL STRUCTURAL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A 'CONTROLLED MANNER', IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
10. THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
11. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
12. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
13. ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES.
14. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

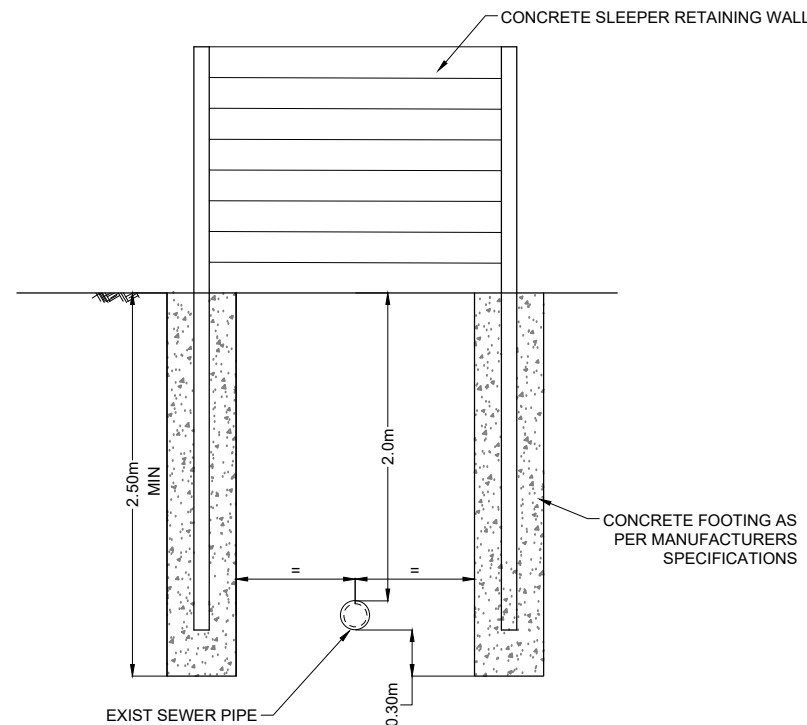
RETAINING WALL CERTIFICATION NOTE:

PROPOSED CONCRETE SLEEPER RETAINING WALLS SHALL BE DESIGNED AND CONSTRUCTED BY THE CONTRACTOR. WALLS SHALL HAVE DESIGN & CONSTRUCTION CERTIFICATION BY CONTRACTOR.

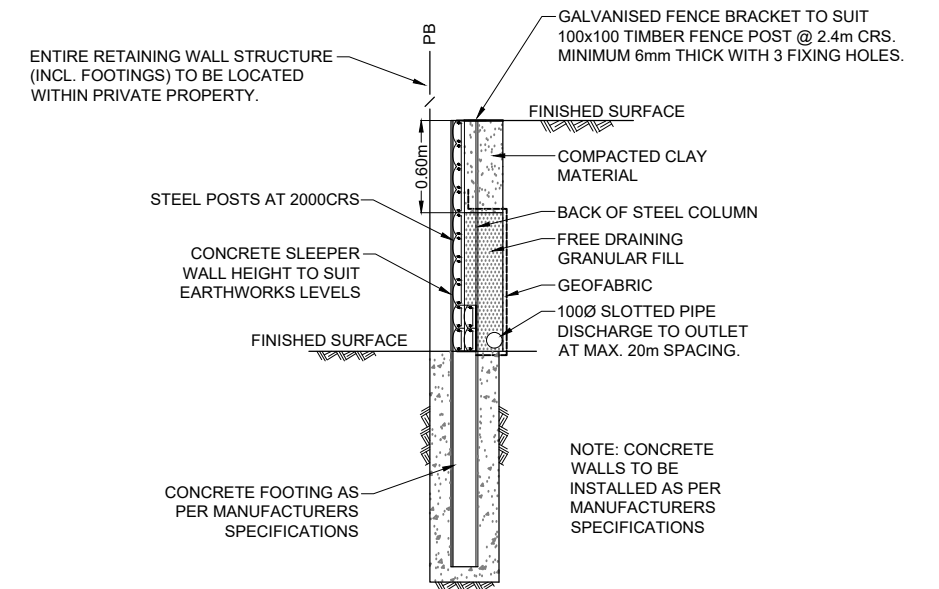
NOTES

1. TEMPORARY FENCE OR STAR-PICKETS AND HAZARD TAPE TO BE INSTALLED AT THE TOP OF ALL RETAINING WALLS GREATER THAN 1.0m HIGH.

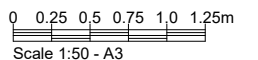
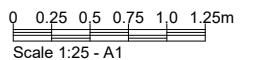
TOOWOOMBA REGIONAL COUNCIL
AMENDED PLAN
REQUIRED TO BE SUBMITTED FOR APPROVAL
 Refer to Condition Number(s)
14.1, 42 & 43
 referred to in Council's Decision Notice dated
15 July 2025
 This plan is subject to conditions of Approval Number
OW/2025/2181



TYPICAL SEWER PROTECTION DETAIL
SCALE 1:25



TYPICAL RETAINING WALL DETAIL
CONCRETE SLEEPER-MAX 2.5m
 SCALE 1:25



A	FOR APPROVAL	21/02/25	APM	DJC	DJC
	REVISIONS	DATE	DWN	CHK	APP

© These drawings remain the property of AM Civil Design Pty Ltd and must not be copied in any format without the written permission of the owners of the copyright.



P: 07 4613 3364
 M: 0417 165 393
 E: andrew@amcivildesign.com.au

Client
FINNIE GROUP PTY LTD

Project
**PROPOSED SUBDIVISION
 CANBOOYA STREET
 DRAYTON**

Title
**BULK EARTHWORK NOTES &
 RETAINING WALL DETAILS**

Drawn: **APM**

Designed: **APM**

Approved (R.P.E.Q.) **9385**

Dan Cooper

DANIEL J. COOPER

Job No. **384**

Date **FEB'2025**

Drawing No. **C-210**

Revision **A**