

PROPOSED RESIDENTIAL SUBDIVISION

RAYMOND TERRACE ROAD

THORNTON

MAITLAND CITY COUNCIL

DEVELOPMENT APPLICATION - CONCEPT DESIGN

DRAWING SCHEDULE

DWG No.	SHEET TITLE	REV
C00	COVER SHEET	1
C01	GENERAL ARRANGEMENT PLAN	1
C02	PLAN SHEET	1
C03	ROAD 1 LONGITUDINAL SECTION	1
C04	ROAD 1 CROSS SECTIONS (1 OF 3)	1
C05	ROAD 1 CROSS SECTIONS (2 OF 3)	1
C06	ROAD 1 CROSS SECTIONS (3 OF 3)	1
C07	TYPICAL SECTIONS, DETAIL AND NOTES	1
C08	EROSION AND SEDIMENTATION CONTROL PLAN	1
C09	EROSION AND SEDIMENTATION CONTROL DETAILS	1

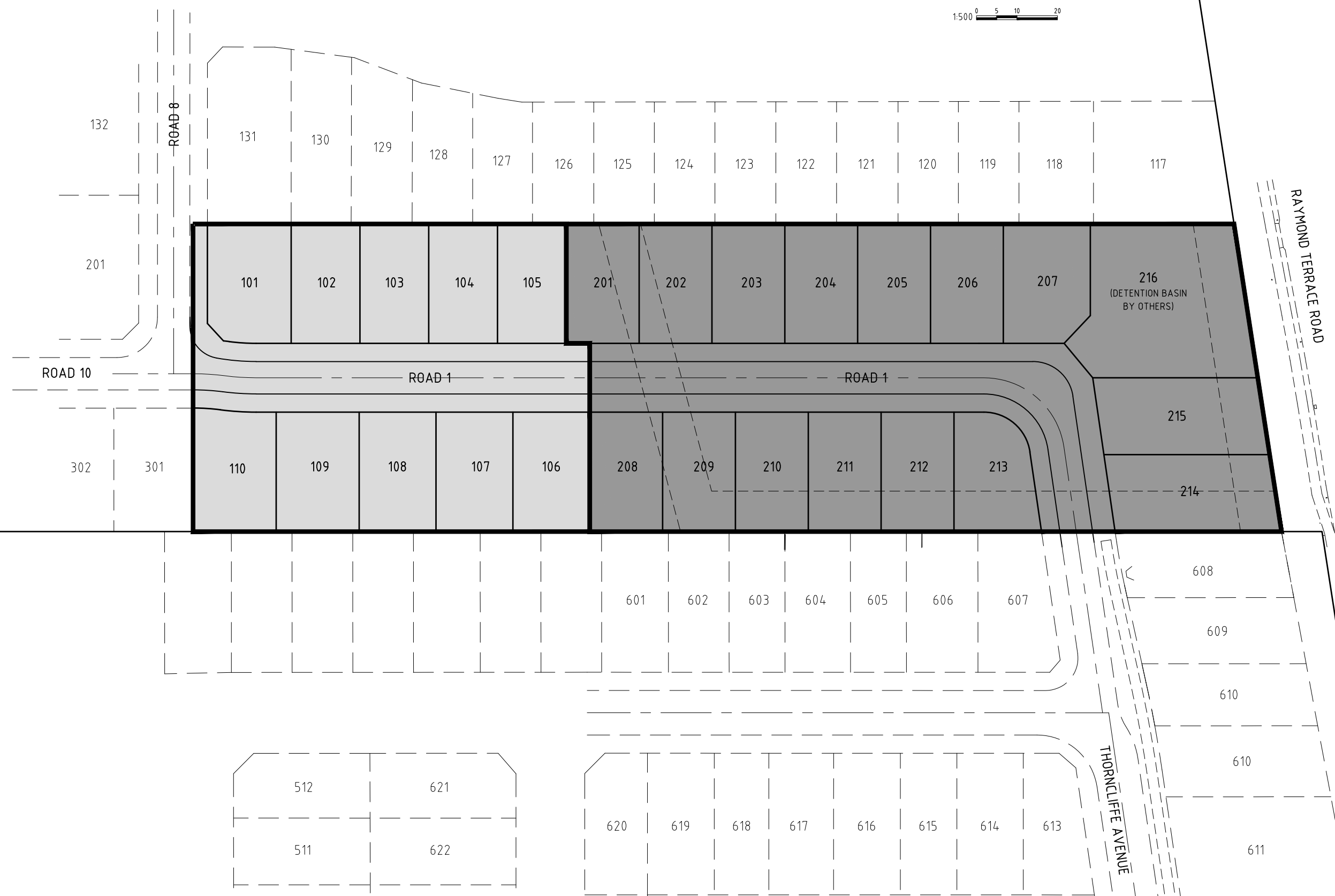
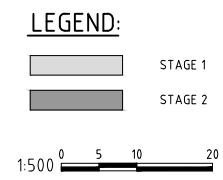
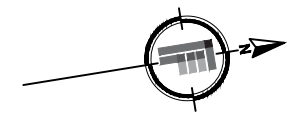


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Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	P S K	A J F	26.10.21

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Designed
P S K

Scale
1:500

Cad Reference
21037 dC01 r1

Project Approval
Anthony Fisher BE (Civil) MIEAust CPEng Consulting Civil Engineer

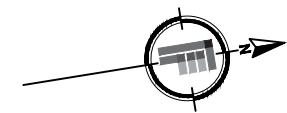
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








PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON

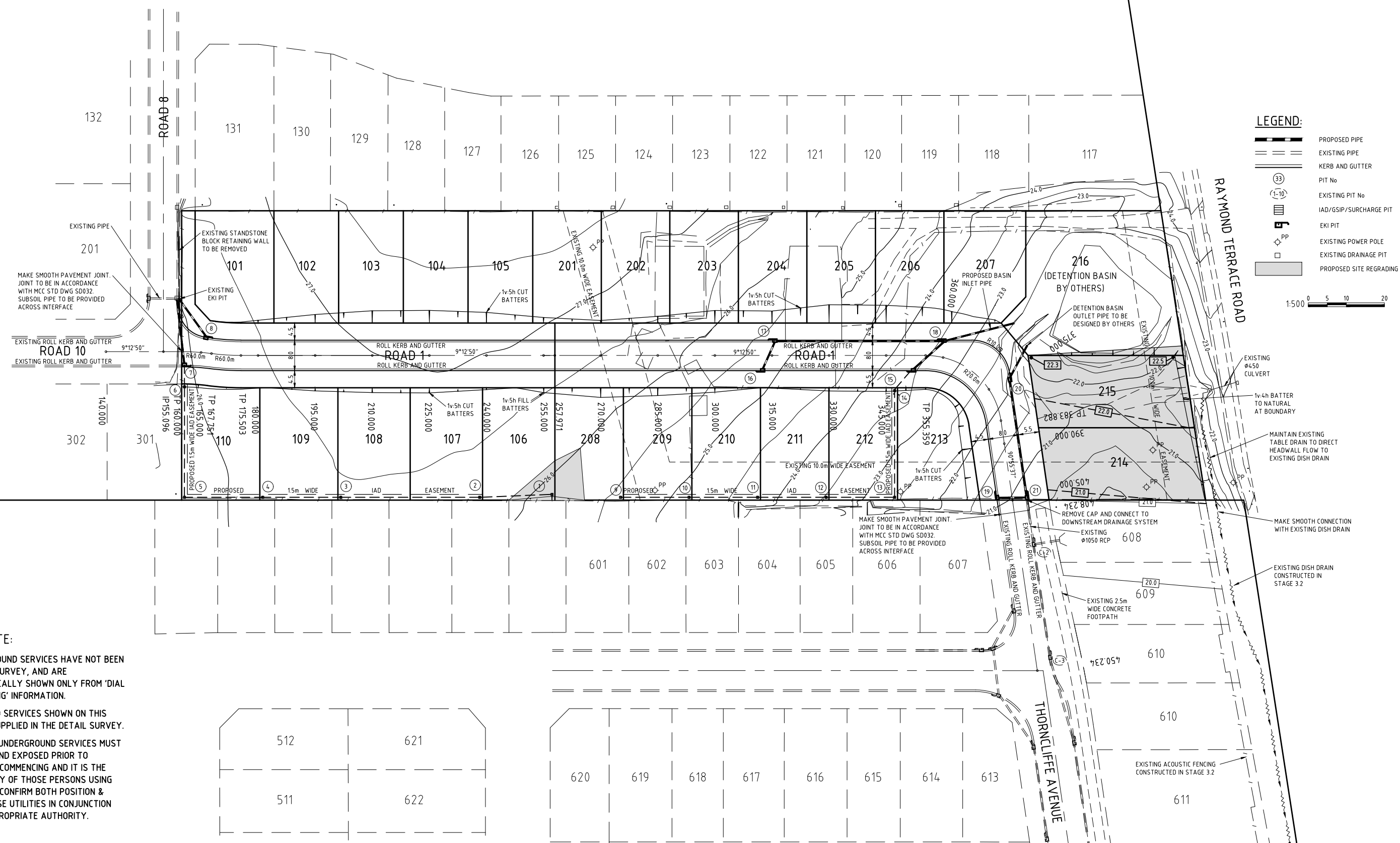
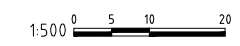
GENERAL ARRANGEMENT PLAN

Project No	21037
Drawing No	C01
Revision	1



LEGEND:

-  PROPOSED PIPE
-  EXISTING PIPE
-  KERB AND GUTTER
-  PIT No
-  EXISTING PIT No
-  IAD/GSIP/SURCHARGE PIT
-  EKI PIT
-  EXISTING POWER POLE
-  EXISTING DRAINAGE PIT
-  PROPOSED SITE REGRADING



SERVICES NOTE:

1. ALL UNDERGROUND SERVICES HAVE NOT BEEN LOCATED BY SURVEY, AND ARE DIAGRAMMATICALLY SHOWN ONLY FROM 'DIAL BEFORE YOU DIG' INFORMATION.
2. ABOVEGROUND SERVICES SHOWN ON THIS PLAN WERE SUPPLIED IN THE DETAIL SURVEY.
3. ALL EXISTING UNDERGROUND SERVICES MUST BE LOCATED AND EXPOSED PRIOR TO EARTHWORKS COMMENCING AND IT IS THE RESPONSIBILITY OF THOSE PERSONS USING THIS PLAN TO CONFIRM BOTH POSITION & LEVEL OF THESE UTILITIES IN CONJUNCTION WITH THE APPROPRIATE AUTHORITY.

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Scale 1:500	Cad Reference 21037 dC02 r1
Project Approval Anthony Fisher BE (Civil) MIEAust CPEng Consulting Civil Engineer	

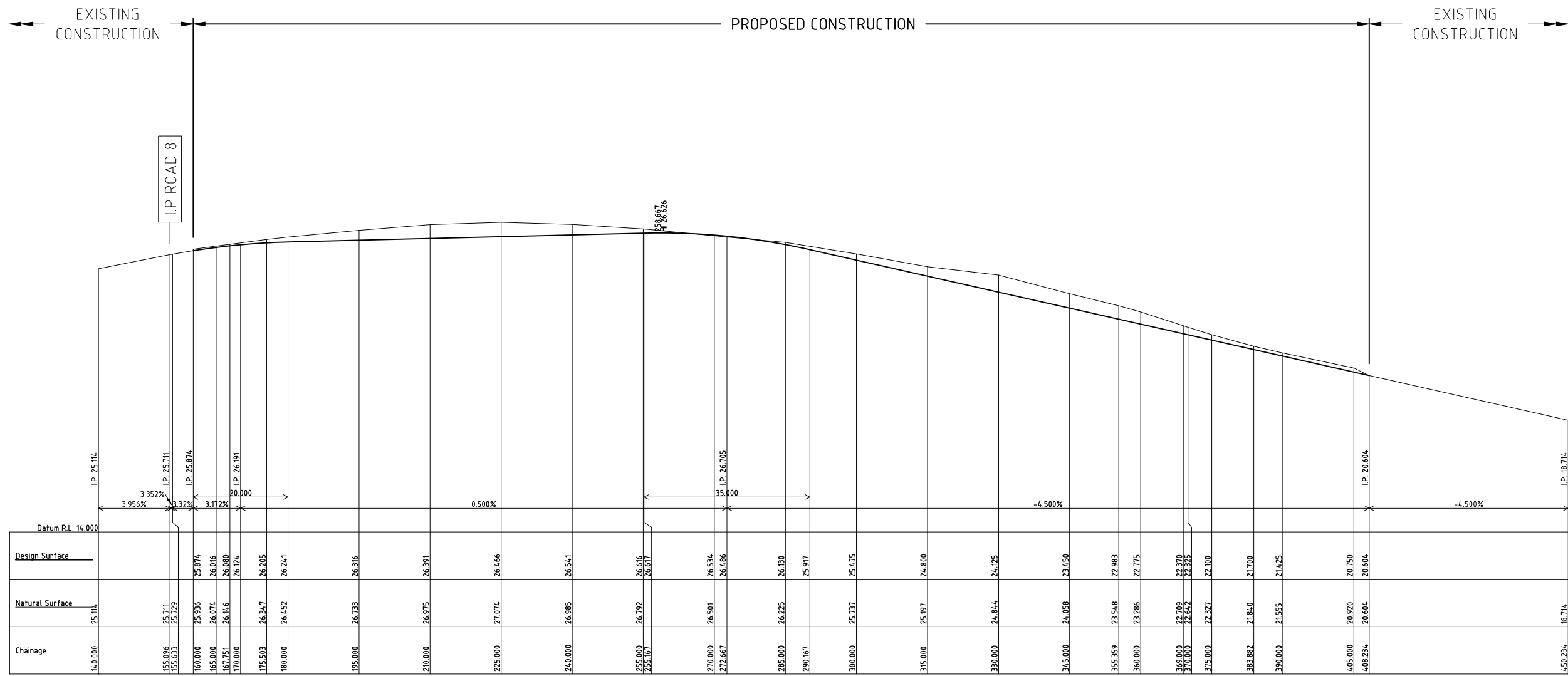
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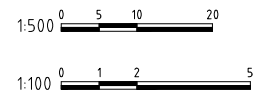
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RAYMOND TERRACE ROAD THORNTON

PLAN SHEET

Project No 21037	
Drawing No C02	Revision 1



ROAD 1 LONGITUDINAL SECTION



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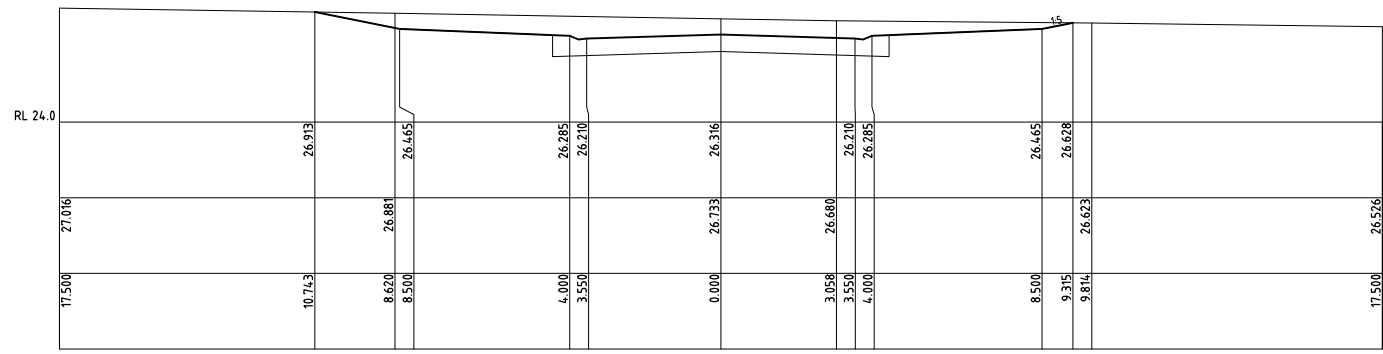
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Anthony Fisher BE (Civil) MIEAust CPEng Consulting Civil Engineer
 A1 SHEET
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21037 dC03 r1

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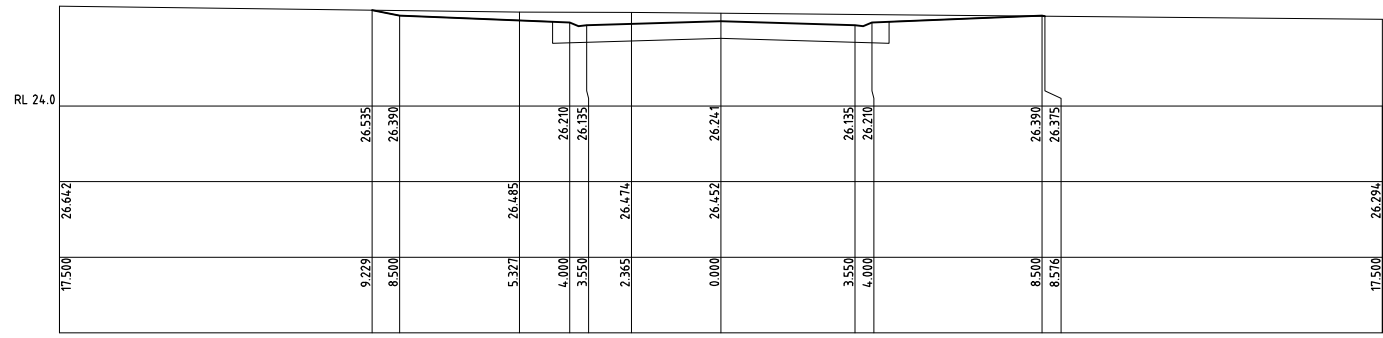


PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON
 ROAD 1 LONGITUDINAL SECTION

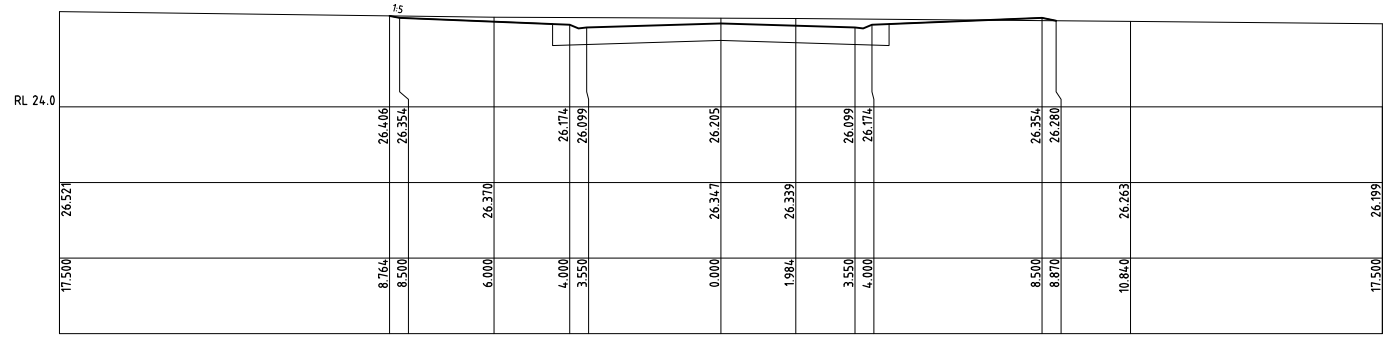
Project No	21037
Drawing No	C03
Revision	1



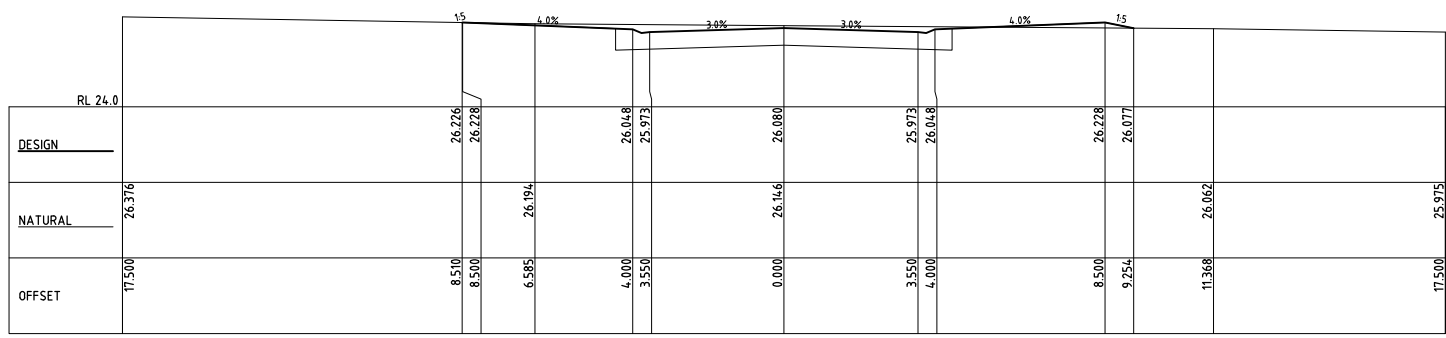
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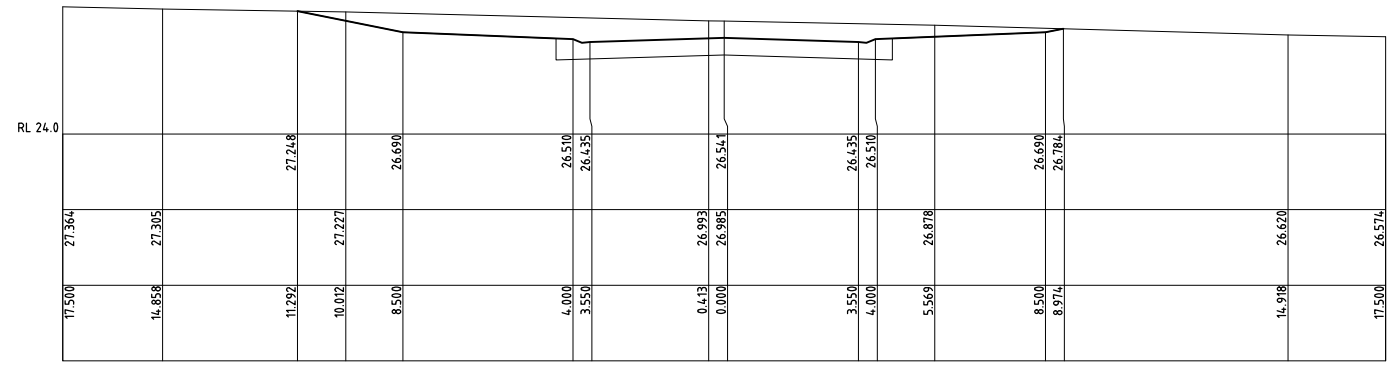
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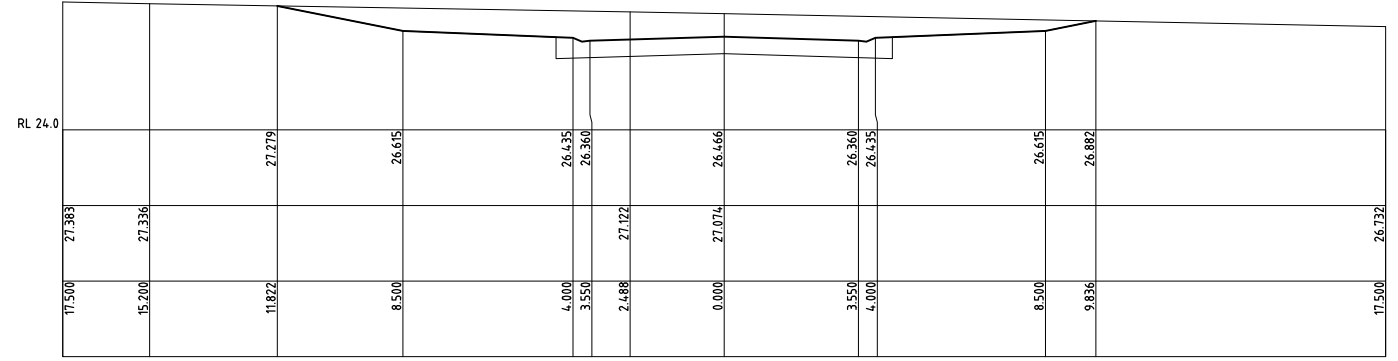
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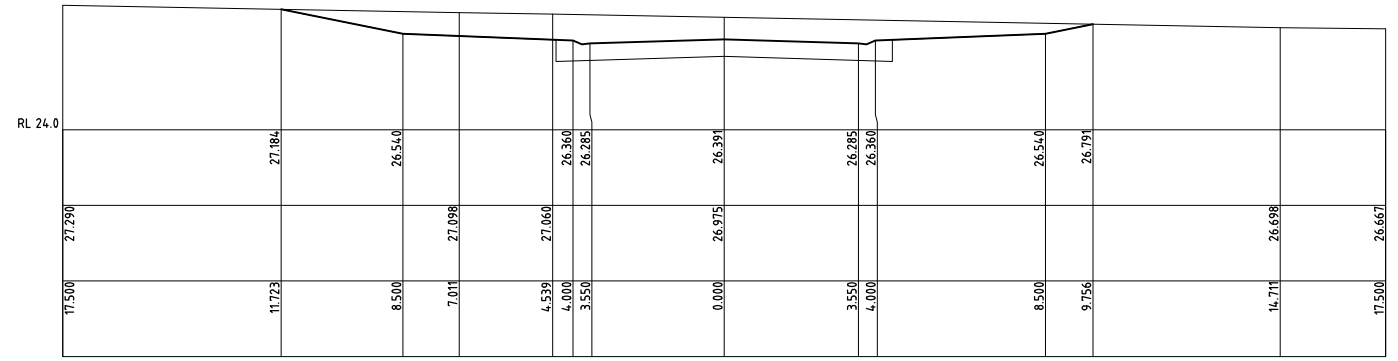
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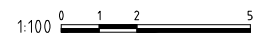
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Scale Horizontal 1:100 Vertical 1:100

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A1 SHEET

Scale
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Cad Reference
21037 dC04 r1

Project Approval
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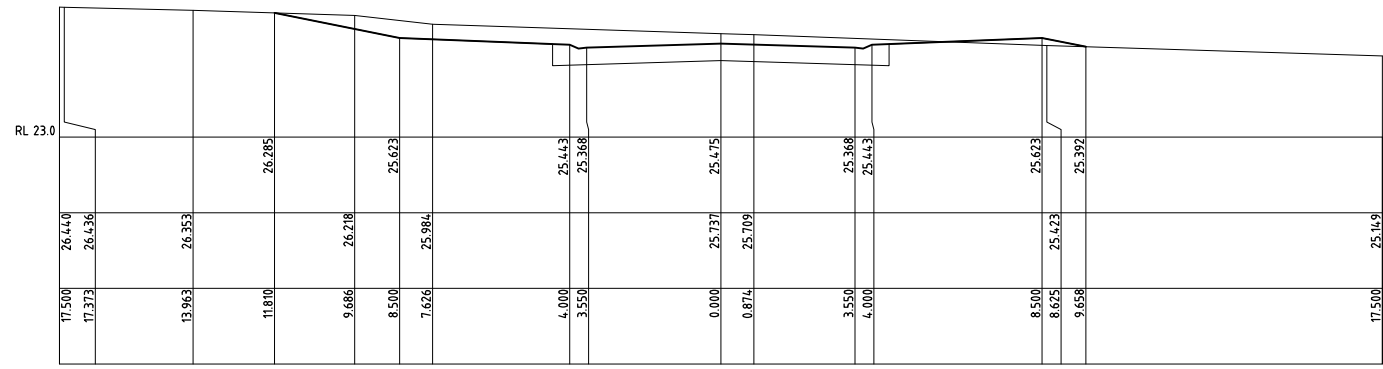
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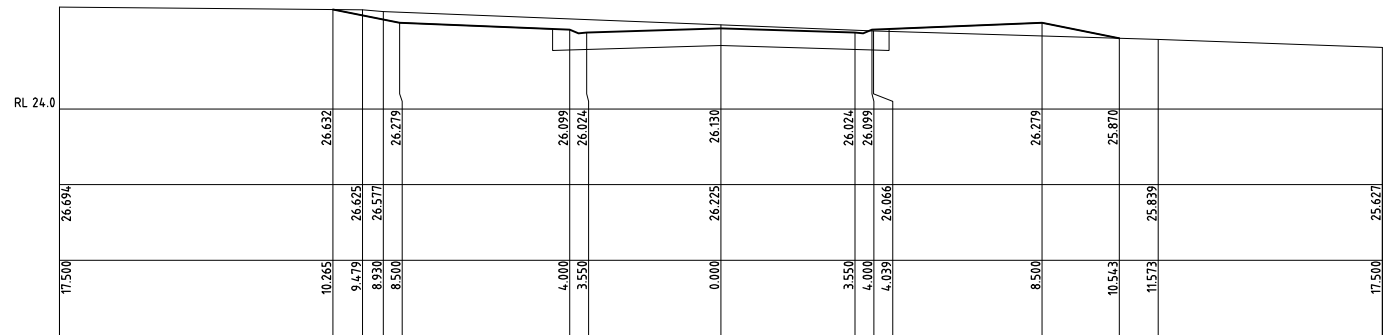
PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON

ROAD 1 CROSS SECTIONS (1 OF 3)

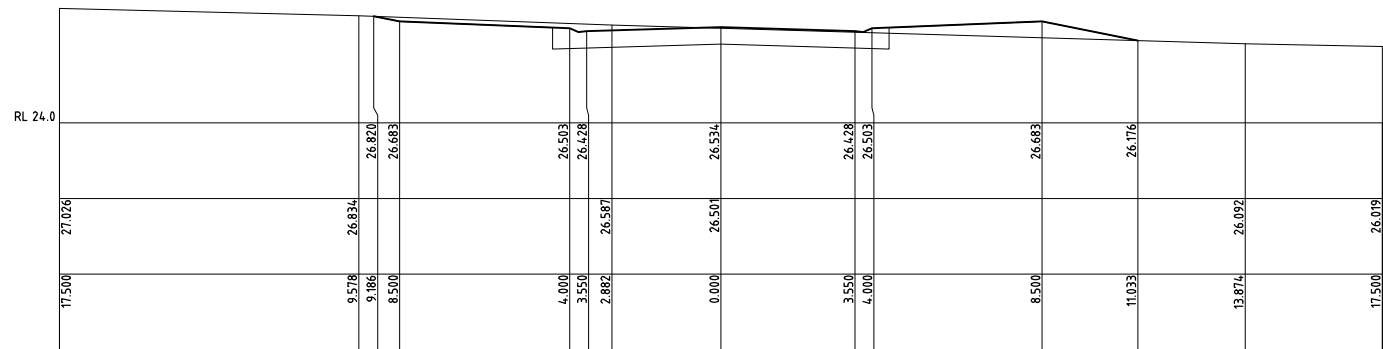
Project No	21037
Drawing No	C04
Revision	1



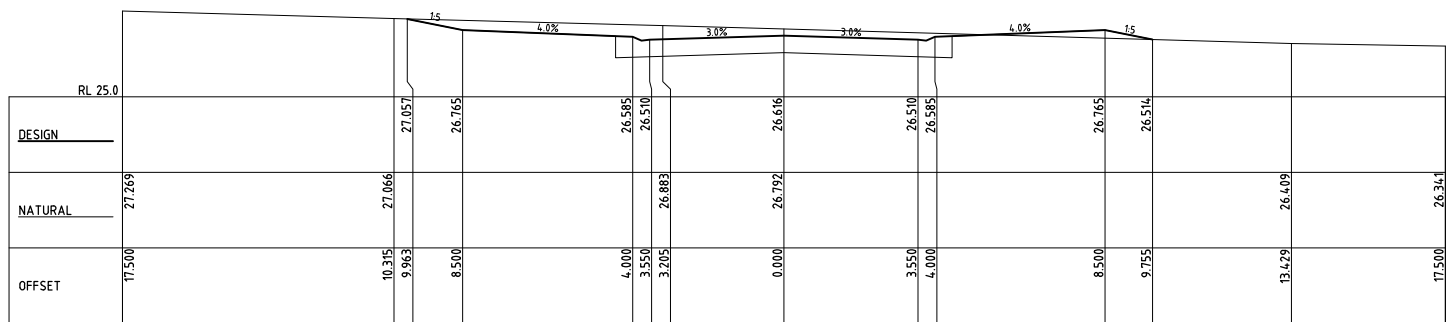
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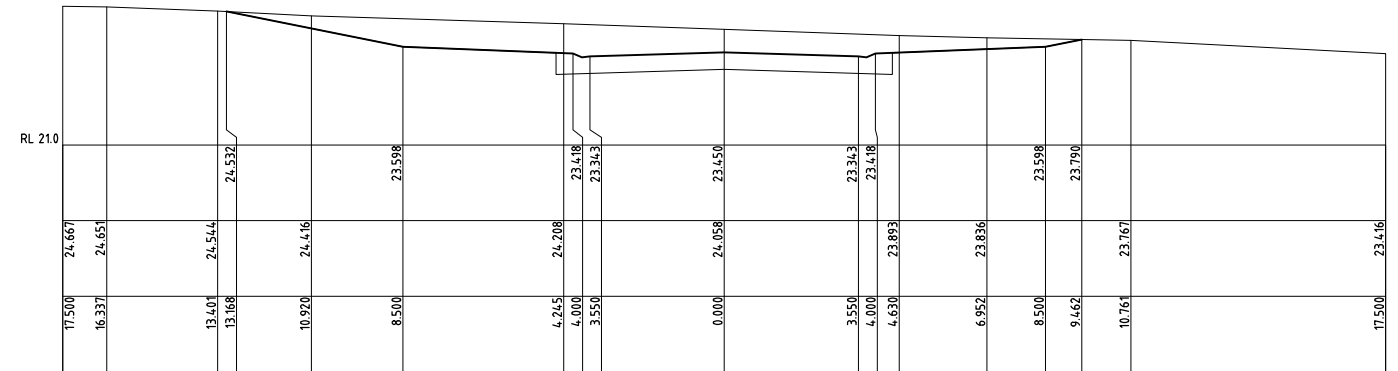
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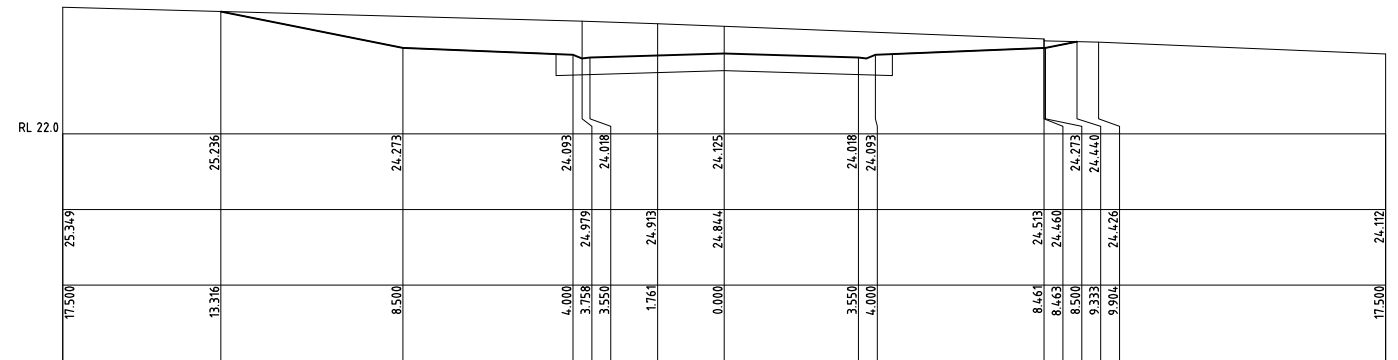
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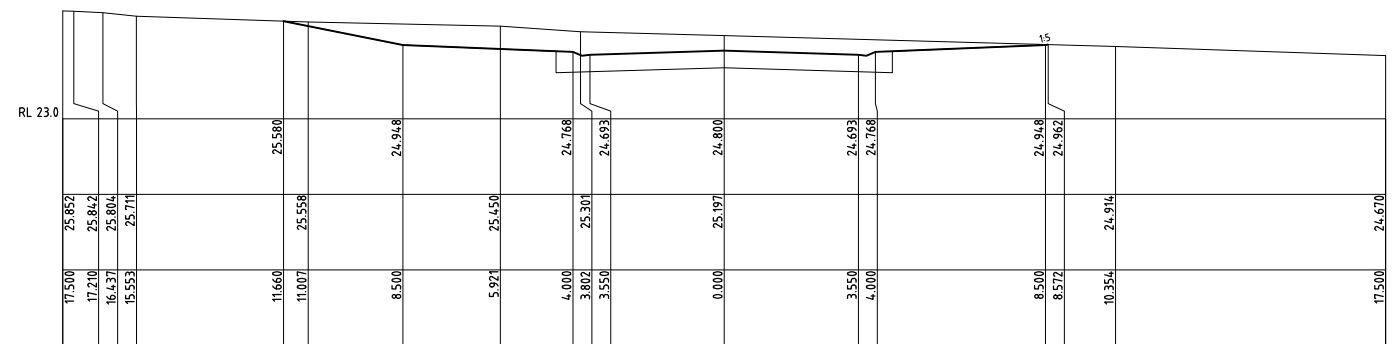
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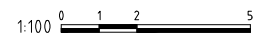
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Scale Horizontal 1:100 Vertical 1:100

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A1 SHEET

Cad Reference
21037 dC05 r1

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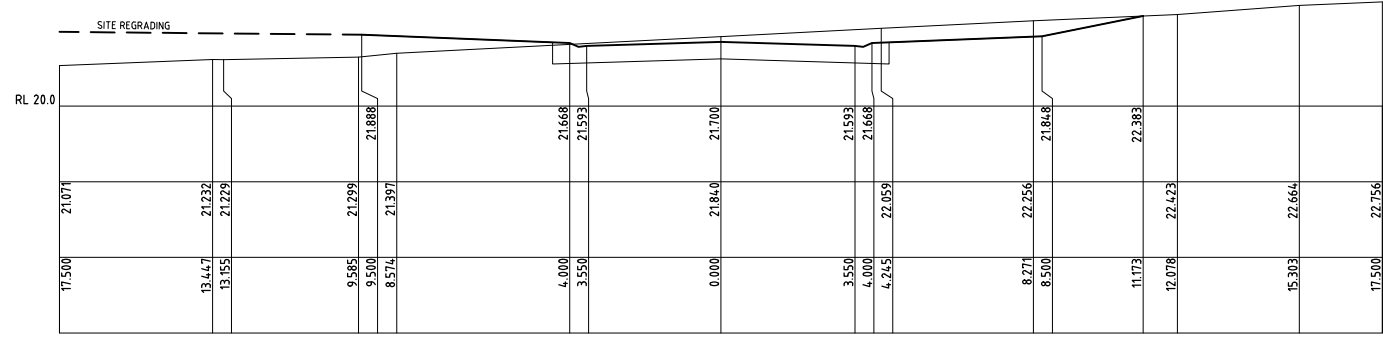
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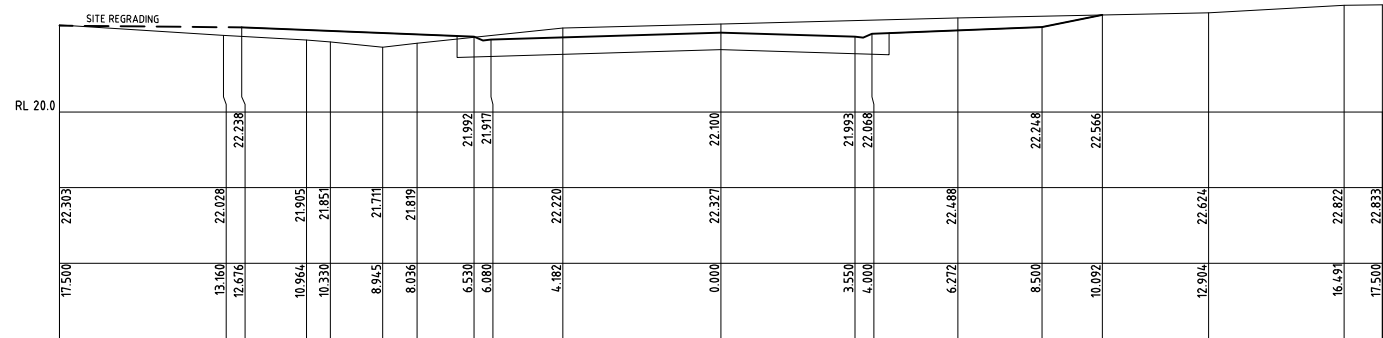
PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON

ROAD 1 CROSS SECTIONS (2 OF 3)

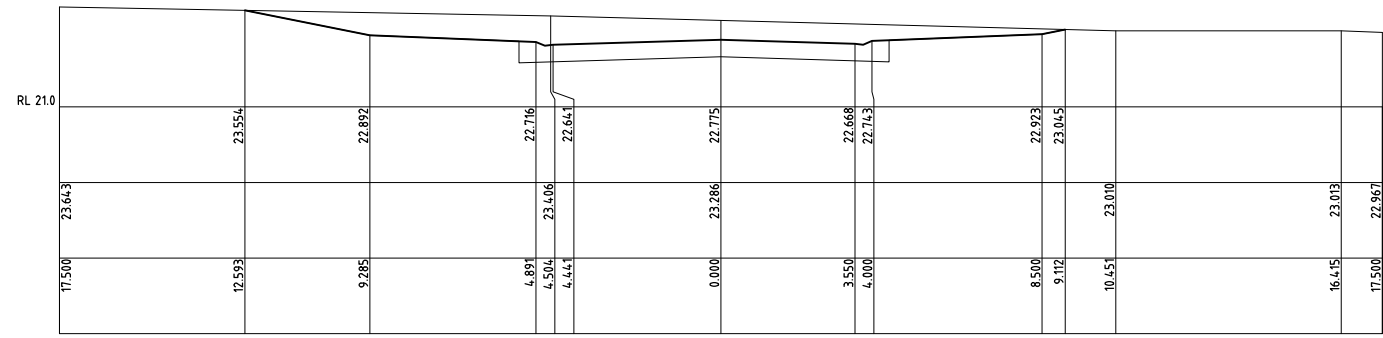
Project No	21037
Drawing No	C05
Revision	1



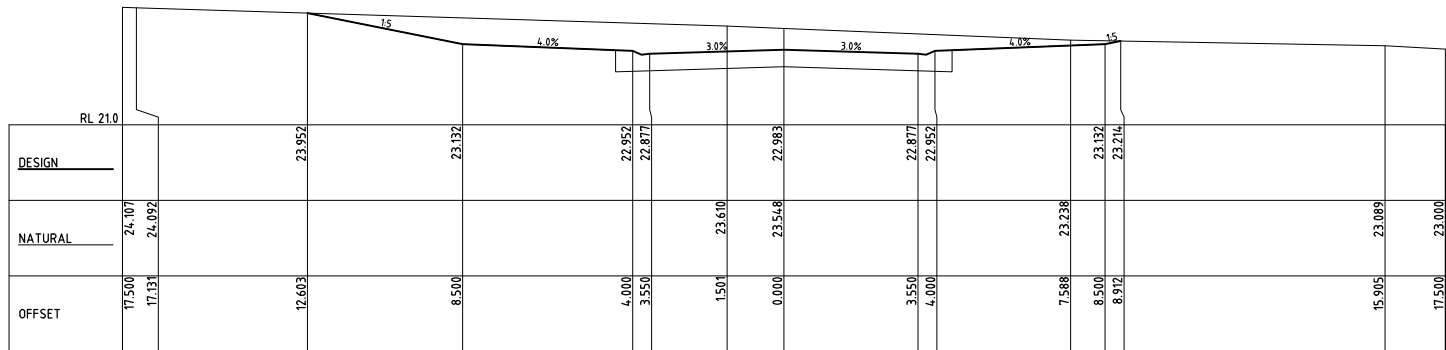
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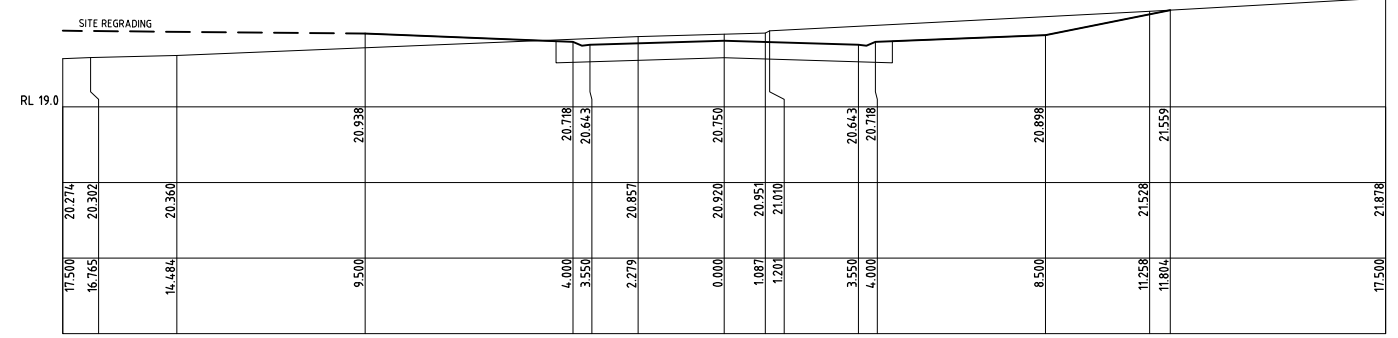
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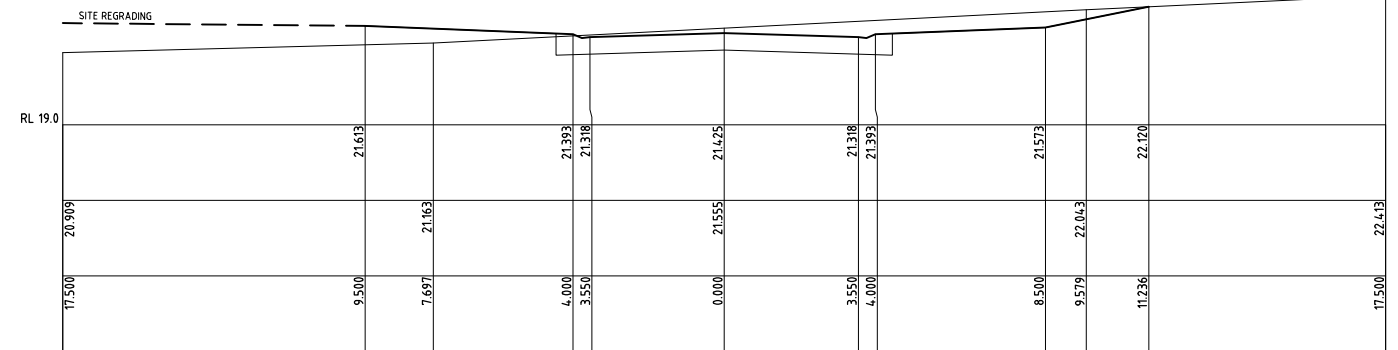
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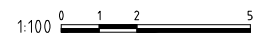
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405.000



390.000



Scale Horizontal 1:100 Vertical 1:100

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A1 SHEET

Scale
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Cad Reference
 21037 dC06 r1

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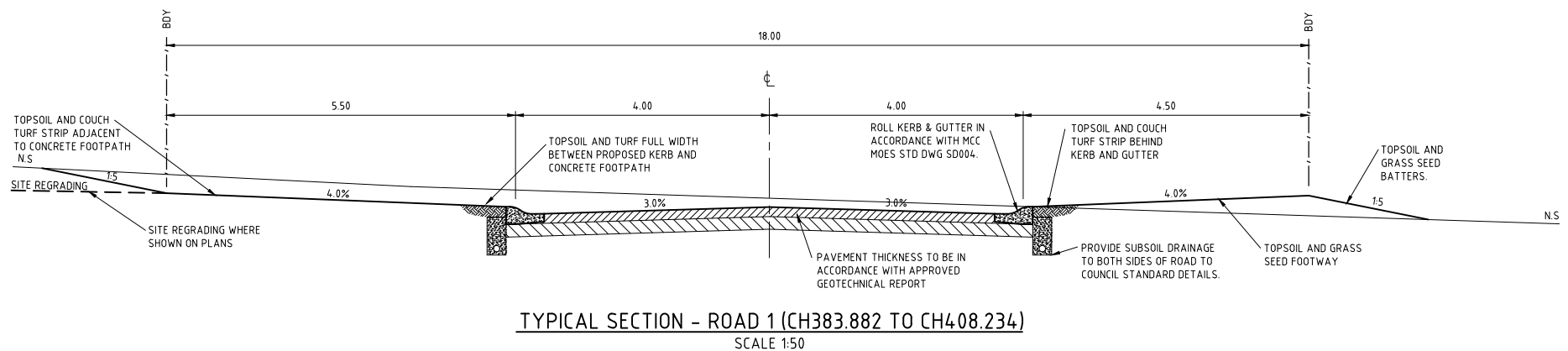
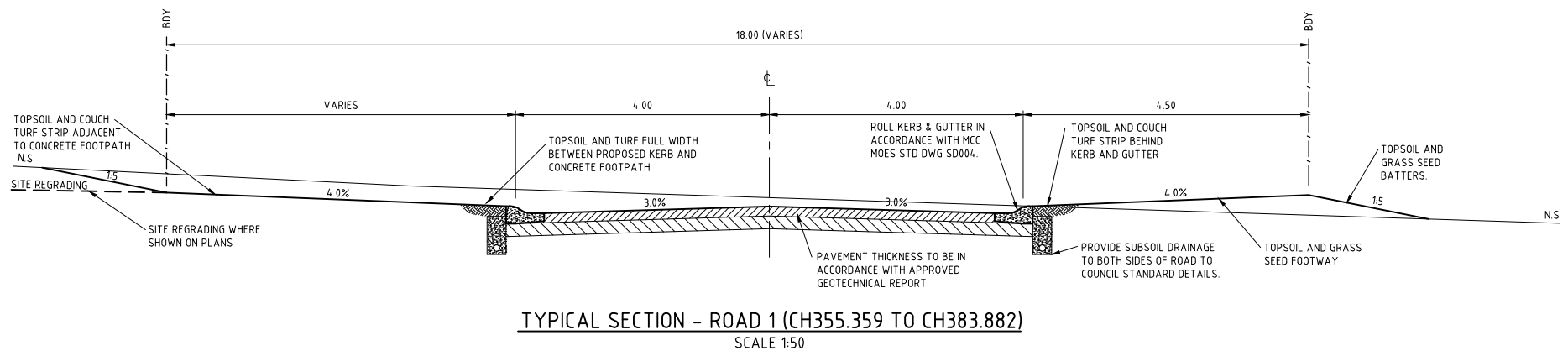
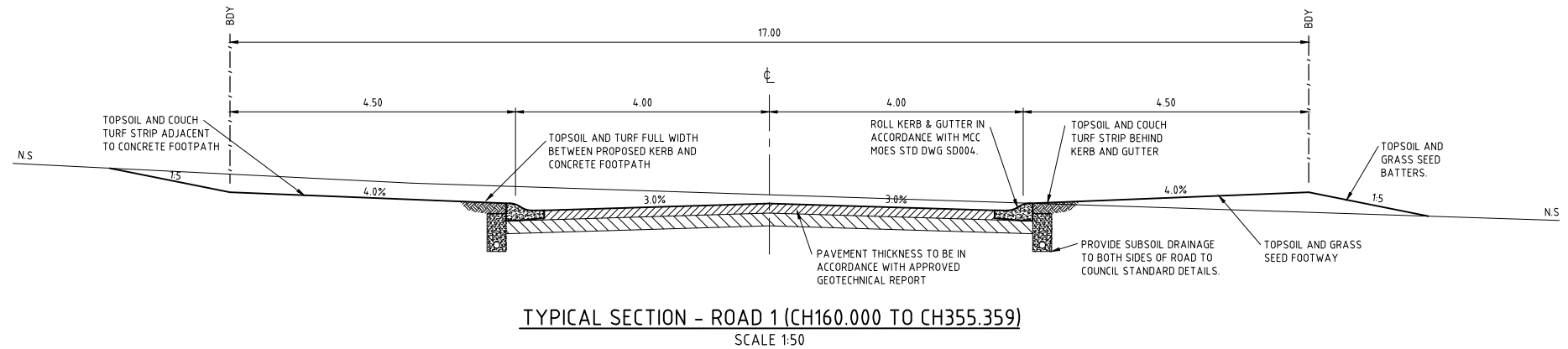
PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON

ROAD 1 CROSS SECTIONS (3 OF 3)

Project No	21037
Drawing No	C06
Revision	1

GENERAL NOTES:

- ALL DIMENSIONS OF EASEMENTS AND LOTS ARE SUBJECT TO REGISTRATION OF DEPOSITED PLAN.
- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE APPROVED PLANS SUBJECT TO MAITLAND CITY COUNCIL'S MANUAL OF ENGINEERING STANDARDS (MCC MOES).
- EROSION CONTROL DEVICES AND SEDIMENT TRAPS TO BE INSTALLED BEFORE SITE IS DISTURBED IN ACCORDANCE WITH THE ATTACHED EROSION AND SEDIMENTATION CONTROL PLAN.
- DENUDED AREAS TO BE SEEDED IMMEDIATELY UPON COMPLETION OF TOPSOIL SPREADING.
- ALL REINFORCED CONCRETE STORMWATER DRAINAGE PIPES ARE TO BE RUBBER RING JOINTED.
- ALL EKI PIT GRATES TO BE SADDINGTONS GGLCD OR SIMILAR WITH RHS FRONT AND BACK.
- ALL PITS DEEPER THAN 1.2m ARE TO BE CONSTRUCTED WITH STEP IRONS IN ACCORDANCE WITH MCC MOES STD DWG SD039, SD043 AND ARE TO HAVE INCREASED INTERNAL DIMENSIONS TO ALLOW ACCESS IN ACCORDANCE WITH CONFINED SPACE REGULATIONS.
- ALL STREET DRAINAGE PITS TO BE CONSTRUCTED IN ACCORDANCE WITH MCC MOES STD DWG SD039.
- ALL INTERALLOTMENT DRAINAGE PIPES TO BE SEWER GRADE uPVC (UNO) OR AN APPROVED EQUIVALENT. THE MINIMUM SLOPE OF INTERALLOTMENT DRAINAGE LINES SHALL BE 1% (UNO). THE INTERALLOTMENT DRAINAGE LINE SHALL BE A MINIMUM OF 0.5m FROM THE BOUNDARY AND LOCATED IN AN EASEMENT 1.5m WIDE.
- ALL EXISTING UNDERGROUND SERVICES MUST BE LOCATED AND EXPOSED PRIOR TO EARTHWORKS COMMENCING AND IT IS THE RESPONSIBILITY OF THOSE PERSONS USING THIS PLAN TO CONFIRM BOTH POSITION & LEVEL OF THESE UTILITIES IN CONJUNCTION WITH THE APPROPRIATE AUTHORITY.
- SUBSOIL DRAINS ARE TO BE PROVIDED IN ACCORDANCE WITH MCC MOES STD DWG SD035, AND WHERE NECESSARY AS DIRECTED BY COUNCIL'S INSPECTOR DURING WORKS. SUBSOIL DRAINAGE TO BE PROVIDED FOR THE FULL LENGTH OF ALL DRAINAGE ROAD CROSSINGS.
- PAVEMENT THICKNESS TO BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE APPROVED GEOTECHNICAL REPORT. GEOTECHNICAL ENGINEER TO REPORT TO COUNCIL ON REQUIRED SELECT FILL THICKNESS BEFORE PLACEMENT OF SELECT FILL.
- WORKING HOURS ON SITE SHALL BE IN ACCORDANCE WITH EPA & COUNCIL REQUIREMENTS.
- VEHICULAR ACCESS AND ALL SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION WORKS.
- MAINTENANCE ON THE SEEDED AND TURFED AREAS SHALL BE OVER A 3 MONTH PERIOD. TURF THE FULL WIDTH OF ALL EARTH DISH DRAINS. LAY 600mm WIDE TURF STRIPS ALONG ALL CONCRETE EDGES INCLUDING ACCESSWAYS AND PATHWAYS, AT THE REAR OF ALL KERB AND GUTTERING AND AT THE TOP OF CUT BATTERS. TURF INFILL TO BE PROVIDED BETWEEN KERB AND CONCRETE FOOTPATH. MULCH (IF AVAILABLE FROM SITE CLEARING) AND SEED ALL OTHER DISTURBED AREAS, INCLUDING TRENCHES. NO PERMANENT MULCH/WOODCHIP IS PERMITTED WITHIN FLOWPATHS AND PUBLIC AREAS.
- ALL PERAMBULATOR RAMPS TO BE CONSTRUCTED AS SHOWN ON PLANS AND IN ACCORDANCE WITH MCC MOES STD DWG SD019.
- TRAFFIC CONTROL MEASURES TO BE IN ACCORDANCE WITH AS 1742.3-1996.
- ALL LEVELS MUST BE OBTAINED FROM ESTABLISHED BENCH MARKS AS DIRECTED BY THE SUPERVISOR.
- THE CONTRACTOR IS TO ENSURE THAT ALL THE NECESSARY SERVICE PIPE CONDUITS AND FITTINGS ARE IN PLACE PRIOR TO THE FINAL WEARING COURSE BEING LAID.
- PROVIDE STREET NAME SIGNS AT ALL INTERSECTIONS, DOUBLE BLADED WHERE NECESSARY.
- ALL FILL MATERIAL WITHIN LOTS INCLUDING BATTERS SHALL BE PLACED IN ACCORDANCE WITH AS3978 TO LEVEL 1 INSPECTION AND TESTING.
- WHERE APPROVED CONSTRUCTION WORK REQUIRES THE REMOVAL OF TREES, THE CONTRACTOR IS TO ENGAGE THE SERVICES OF A SUITABLY QUALIFIED ECOLOGIST TO INSPECT THE SITE AND IDENTIFY ANY TREE WHICH IS LIKELY TO BE A HABITAT TREE. THE ECOLOGIST IS TO BE ON SITE DURING THE FELLING OF ANY IDENTIFIED TREE AND ENSURE THAT ANY DISPLACED OR INJURED WILDLIFE IS COLLECTED AND FORWARDED TO AN APPROPRIATE WILDLIFE RESCUE SERVICE. THE ECOLOGIST IS TO REPORT TO COUNCIL ON ACTION TAKEN AS PART OF TREE CLEARING OPERATIONS.
- PAVEMENT PROOF ROLLING AND LEVEL CHECKS, DENSITY AND BENKELMAN BEAM TESTING TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF MCC MOES.



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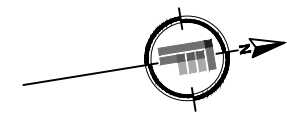
Designed P S K	A1 SHEET
Scale AS SHOWN	Cad Reference 21037 dC07 r1
Project Approval Anthony Fisher BE (Civil) MIEAust CPEng Consulting Civil Engineer	

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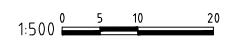
TYPICAL SECTIONS, DETAILS AND NOTES

Project No 21037	
Drawing No C07	Revision 1



NOTE:
 ALL EXISTING UNDERGROUND SERVICES MUST BE LOCATED AND EXPOSED PRIOR TO EARTHWORKS COMMENCING AND IT IS THE RESPONSIBILITY OF THOSE PERSONS USING THIS PLAN TO CONFIRM BOTH POSITION & LEVEL OF THESE UTILITIES IN CONJUNCTION WITH THE APPROPRIATE AUTHORITY.

- LEGEND**
- SEDIMENT FENCE
 - EARTH BANK DRAIN
 - STABILISED SITE ENTRANCE
 - STRAW BALE FILTER SEDIMENT TRAP
 - MESH AND GRAVEL PIT PROTECTION
 - MATERIAL STOCKPILE



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Project Approval Anthony Fisher BE (Civl) MIEAust CPEng Consulting Civil Engineer	

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**PROPOSED RESIDENTIAL SUBDIVISION
 RAYMOND TERRACE ROAD THORNTON**

EROSION AND SEDIMENTATION CONTROL PLAN

Project No 21037	
Drawing No C08	Revision 1

EROSION CONTROL

- EROSION CONTROL DEVICES AND SILTATION TRAPS TO BE INSTALLED BEFORE SITE IS DISTURBED IN ACCORDANCE WITH N.S.W. DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT GUIDELINES AND APPROVED BY COUNCIL INSPECTOR.
- ALL PERIMETER AND CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN EARTHWORKS AND/OR CLEARING.
- SILT TO BE REMOVED FROM TEMPORARY SEDIMENT CONTROL BASINS AS DIRECTED BY COUNCIL INSPECTOR OR DEPARTMENT OF LAND AND WATER CONSERVATION REPRESENTATIVE TO MAINTAIN SILTATION STORAGE CAPACITY IN TEMPORARY BASINS.
- FILTRATION BUFFER ZONES ARE TO BE FENCED OFF AND ACCESS PROHIBITED TO ALL PLANT AND MACHINERY.
- HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER PRIOR TO COMMENCEMENT OF EARTHWORKS IMMEDIATELY AFTER CLEARING OF VEGETATION BEFORE REMOVAL OF TOPSOIL.
- SANDBAGS TO BE USED DURING ROAD CONSTRUCTION TO DIVERT STORMWATER INTO PITS WHEN SUBGRADE IS UP TO KERB LEVEL.
- ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED & MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
- CLEAN WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO DRAINAGE SYSTEM.
- ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING. TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE APPROVED LOCATION.
- ALL TOPSOIL IS TO BE STOCKPILED ON SITE FOR RE-USE (AWAY FROM TREES AND DRAINAGE LINES). MEASURES SHALL BE APPLIED TO PREVENT EROSION OF THE STOCKPILES.
- ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE LIP SHALL BE A MINIMUM OF 200mm.
- ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND MULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
- UNDERSCRUBBING OF VEGETATION TO BE RESTRICTED TO SLASHING TO MINIMISE SOIL DISTURBANCE. UPON COMPLETION OF ALL EARTHWORKS OR AS DIRECTED BY COUNCIL, SOIL CONSERVATION TREATMENTS SHALL BE APPLIED TO RENDER AREAS THAT HAVE BEEN DISTURBED, EROSION PROOF WITHIN 14 DAYS.
- DENUDED AREAS TO BE STRIP TURFED OR HYDROMULCH SEEDED WITH THE SEED MIX BELOW OR APPROVED BY DEPARTMENT OF LAND AND WATER CONSERVATION REPRESENTATIVE, WITHIN 14 DAYS OF PRACTICAL COMPLETION OF EARTHWORKS. STRIPS ARE TO BE PLACED ACROSS THE CONTOUR AT RIGHT ANGLES TO THE DIRECTION OF SLOPE.
- THE AREA OVER ALL STORMWATER AND SEWER LINES NOT WITHIN ROAD RESERVES IS TO BE MULCHED AND SEEDED WITHIN 14 DAYS AFTER BACKFILL.
- NO MORE THAN 15m OF TRENCH IS TO BE OPEN AT ANY ONE TIME.
- AREAS OVER ELECTRICITY, TELEPHONE AND GAS SUPPLY TRENCHES ARE TO BE SEEDED AND MULCHED BY THE RELEVANT AUTHORITY WITHIN 14 DAYS AFTER BACKFILL.
- ALL FOOTPATHS, BERMS AND BATTERS AND SITE REGRADING AREAS ARE TO BE TOPSOILED WITH MINIMUM 75mm OF SELECTED SITE TOPSOIL AND GRASSED.
- STRIPS OF TURF ARE TO BE PLACED IMMEDIATELY BEHIND THE KERB AND GUTTER ON ALL NEW ROADS AND AT LOCATIONS AS DETERMINED BY COUNCIL'S SUPERVISING OFFICER.
- ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE COMPLETED PRIOR TO THE SUBDIVISION FINAL INSPECTION. ALL EROSION DEVICES ARE TO BE MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.

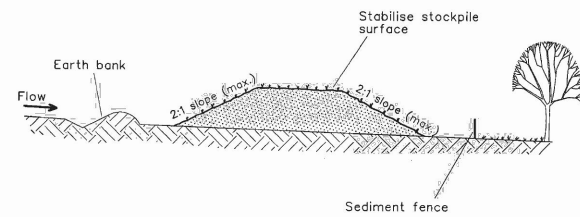
HYDROMULCH SEED MIXES

SUMMER MIX	
MATERIAL	APPLICATION RATE
JAPANESE MILLET	30 kg/Ha
COUCH	10 kg/Ha
CARPET GRASS	10 kg/Ha
HAIFA WHITE CLOVER	5 kg/Ha
BINDER	200 l/Ha
PULP	1000 kg/Ha
FERTILISER	300 kg/Ha

WINTER MIX	
MATERIAL	APPLICATION RATE
OATS	20 kg/Ha
RYE GRASS	10 kg/Ha
RED CLOVER	5 kg/Ha
WHITE CLOVER	5 kg/Ha
COUCH	10 kg/Ha
FERTILISER ENRICHER OR DYNAMIC LIFTER	1000 kg/Ha

TYPICAL CONSTRUCTION SCHEDULE

TASK	WEEK							
	1	2	3	4	5	6	7	8
CONSTRUCT ALL TEMPORARY SEDIMENT BASINS	█							
PLACE SILT FENCE ALONG ROAD BOUNDARIES AS SHOWN	█							
PLACE SILT FENCE BELOW AREAS TO BE REGRADED	█							
CONSTRUCT ALL DIVERSION BANKS CATCHING CLEAN WATER	█							
ROAD CONSTRUCTION AND REGRADED		█	█	█	█	█	█	█
PLACE SILT FENCE AROUND TOPSOIL STOCKPILES		█						
PLACE SEDIMENT BARRIERS AROUND STORMWATER PITS AT COMPLETION OF DRAINAGE			█	█				
PLACE STRIP TURF PARALLEL TO DESIGN CONTOURS ALONG ROAD AS SHOWN								█

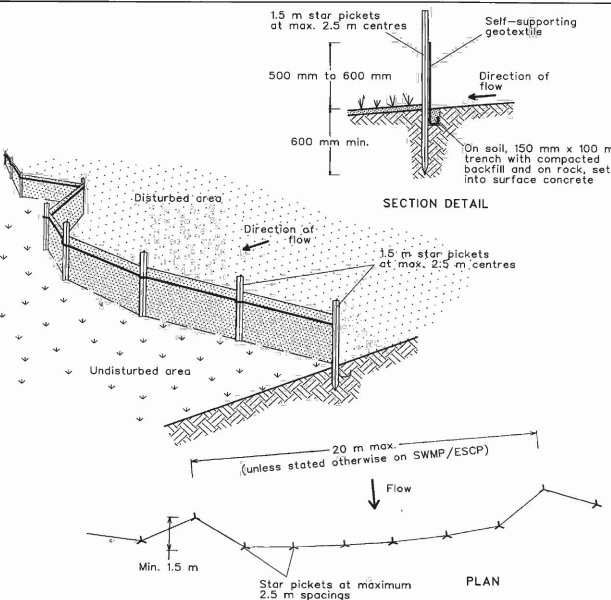


Construction Notes

- Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated water flow, roads and hazard areas.
- Construct on the contour as low, flat, elongated mounds.
- Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1

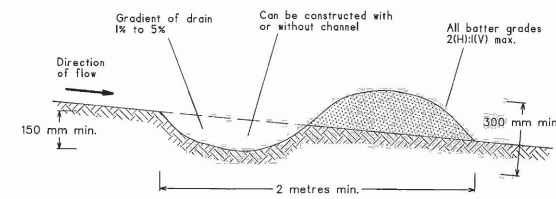


Construction Notes

- Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section. The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event.
- Cut a 150-mm deep trench along the upslope line of the fence to the bottom of the fabric to be entrenched.
- Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- Join sections of fabric at a support post with a 150-mm overlap.
- Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

SD 6-8



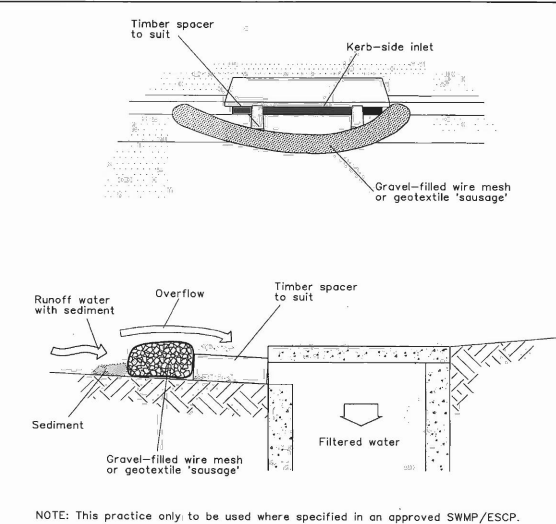
NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

- Build with gradients between 1 percent and 5 percent.
- Avoid removing trees and shrubs if possible - work around them.
- Ensure the structures are free of projections or other irregularities that could impede water flow.
- Build the drains with circular, parabolic or trapezoidal cross sections, not V shaped.
- Ensure the banks are properly compacted to prevent failure.
- Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW)

SD 5-5



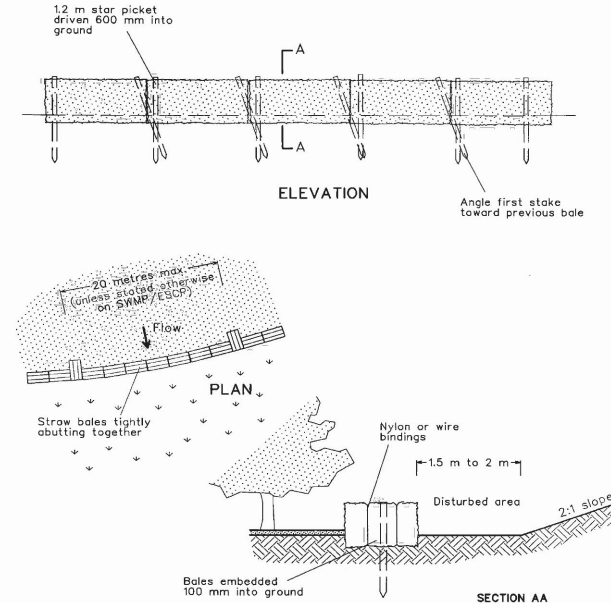
NOTE: This practice only to be used where specified in an approved SWMP/ESCP.

Construction Notes

- Install filters to kerb inlets only at sag points.
- Fabricate a sleeve made from geotextile or wire mesh longer than the length of the inlet pit and fill it with 25 mm to 50 mm gravel.
- Form an elliptical cross-section about 150 mm high x 400 mm wide.
- Place the filter at the opening leaving at least a 100-mm space between it and the kerb inlet. Maintain the opening with spacer blocks.
- Form a seal with the kerb to prevent sediment bypassing the filter.
- Sandbags filled with gravel can substitute for the mesh or geotextile providing they are placed so that they firmly abut each other and sediment-laden waters cannot pass between.

MESH AND GRAVEL INLET FILTER

SD 6-11

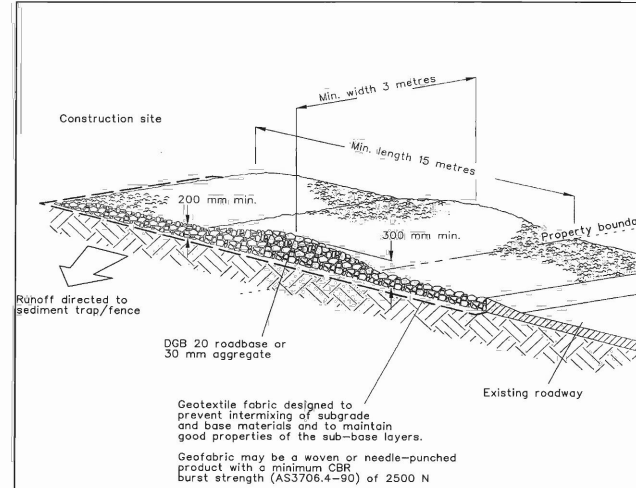


Construction Notes

- Construct the straw bale filter as close as possible to being parallel to the contours of the site.
- Place bales lengthwise in a row with ends tightly abutting. Use straw to fill any gaps between bales. Straws are to be placed parallel to ground.
- Ensure that the maximum height of the filter is one bale.
- Embed each bale in the ground 75 mm to 100 mm and anchor with two 1.2 metre star pickets or stakes. Angle the first star picket or stake in each bale towards the previously laid bale. Drive them 600 mm into the ground and, if possible, flush with the top of the bales. Where star pickets are used and they protrude above the bales, ensure they are fitted with safety caps.
- Where a straw bale filter is constructed downslope from a disturbed batter, ensure the bales are placed 1 to 2 metres downslope from the toe.
- Establish a maintenance program that ensures the integrity of the bales is retained - they could require replacement each two to four months.

STRAW BALE FILTER

SD 6-7



Construction Notes

- Strip the topsoil, level the site and compact the subgrade.
- Cover the area with needle-punched geotextile.
- Construct a 200-mm thick pad over the geotextile using road base or 30-mm aggregate.
- Ensure the structure is at least 15 metres long or to building alignment and at least 3 metres wide.
- Where a sediment fence joins onto the stabilised access, construct a hump in the stabilised access to divert water to the sediment fence.

STABILISED SITE ACCESS

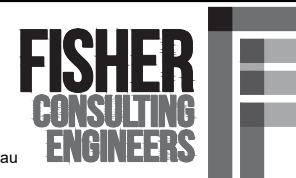
SD 6-14

Amendment	Description	Drawn	App'd	Date
1	ORIGINAL ISSUE	P S K	A J F	26.10.21

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PROPOSED RESIDENTIAL SUBDIVISION
RAYMOND TERRACE ROAD THORNTON
EROSION AND SEDIMENTATION CONTROL DETAILS

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C09
Revision
1