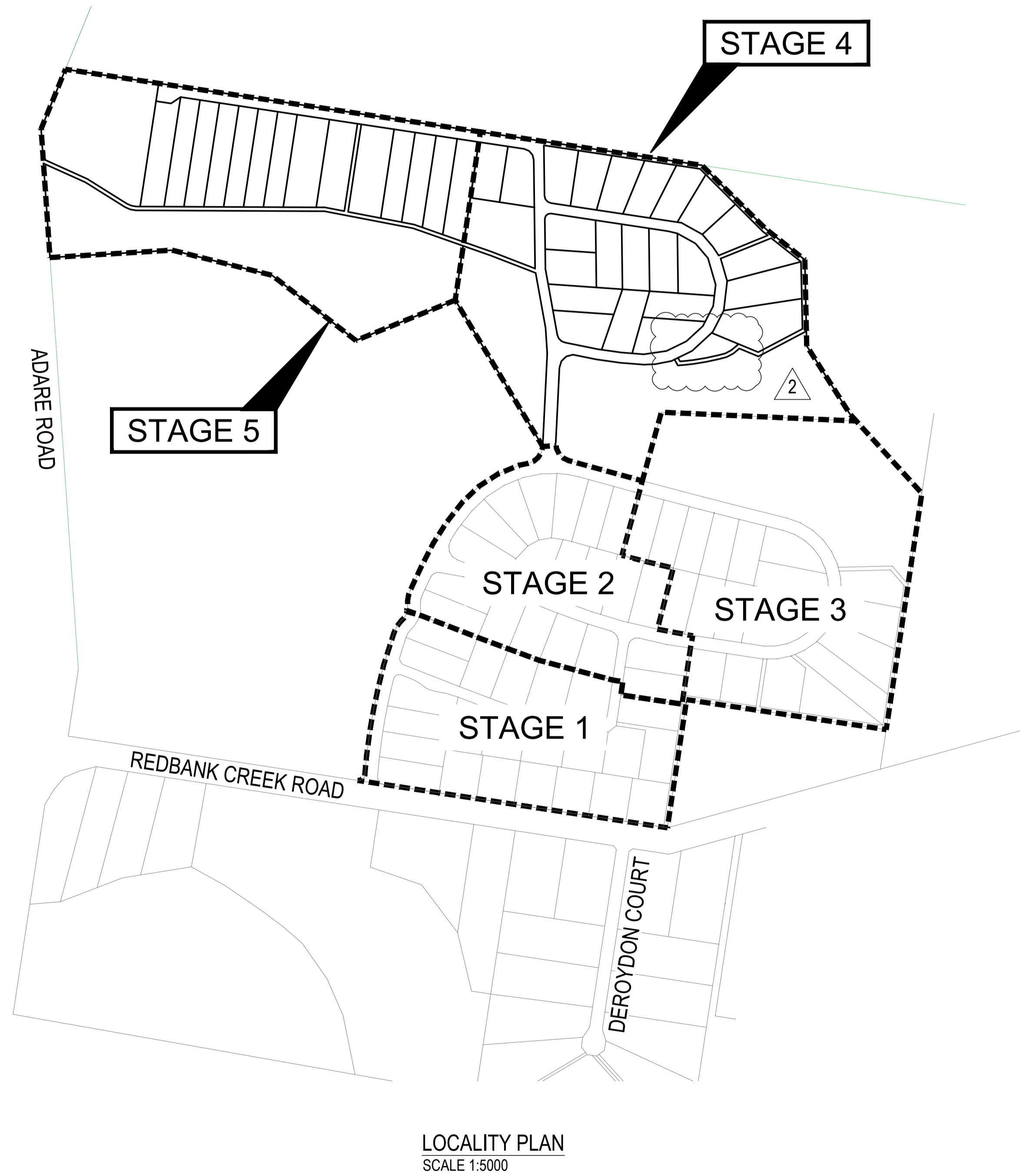


PROPOSED SUBDIVISION

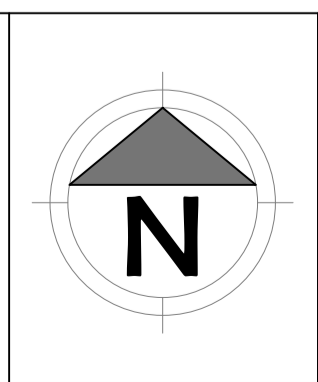
PARKLAKE, ADARE - STAGES 4 AND 5

174 ADARE ROAD, ADARE, QLD 4343



CIVIL ENGINEERING DRAWINGS	
SHEET NUMBER	SHEET TITLE
C4000	COVER SHEET
C4001	STANDARD NOTES
C4002	SITE PLAN - SHEET 1
C4003	SITE PLAN - SHEET 2
C4004	SITE PLAN - SHEET 3
C4100	EROSION AND SEDIMENT CONTROL PLAN - SHEET 1
C4101	EROSION AND SEDIMENT CONTROL PLAN - SHEET 2
C4102	EROSION AND SEDIMENT CONTROL PLAN - SHEET 3
C4190	EROSION AND SEDIMENT CONTROL DETAILS
C4191	EROSION AND SEDIMENT CONTROL NOTES
C4200	BULK EARTHWORKS PLAN - SHEET 1
C4201	BULK EARTHWORKS PLAN - SHEET 2
C4202	BULK EARTHWORKS PLAN - SHEET 3
C4290	BULK EARTHWORKS DETAILS
C4300	PAVEMENT PLAN - SHEET 1
C4301	PAVEMENT PLAN - SHEET 2
C4302	PAVEMENT PLAN - SHEET 3
C4400	ROADWORKS PLAN - SHEET 1
C4401	ROADWORKS PLAN - SHEET 2
C4402	ROADWORKS PLAN - SHEET 3
C4430	SIGNS AND PAVEMENT MARKING PLAN - SHEET 1
C4431	SIGNS AND PAVEMENT MARKING PLAN - SHEET 2
C4432	SIGNS AND PAVEMENT MARKING PLAN - SHEET 3
C4450	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 1
C4451	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 2
C4452	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 3
C4453	ROAD LONGITUDINAL SECTION - NEWLAND PLACE - SHEET 4
C4454	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 1
C4455	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 2
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C4457	ROAD CROSS SECTIONS - NEWLAND PLACE - SHEET 4
C4458	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 1
C4459	ROAD LONGITUDINAL SECTION - BURTON CRESCENT - SHEET 2
C4460	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 1
C4461	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 2
C4462	ROAD CROSS SECTIONS - BURTON CRESCENT - SHEET 3
C4480	INTERSECTION DETAILS
C4490	ROADWORKS DETAILS
C4500	DRAINAGE CATCHMENT PLAN
C4501	DRAINAGE PLAN - SHEET 1
C4502	DRAINAGE PLAN - SHEET 2
C4503	DRAINAGE PLAN - SHEET 3
C4510	DRAINAGE BIO RETENTION BASIN DETAILS
C4550	DRAINAGE LONGITUDINAL SECTIONS - SHEET 1
C4551	DRAINAGE LONGITUDINAL SECTIONS - SHEET 2
C4560	DRAINAGE CALCULATIONS
C4600	WATER RETICULATION COVER SHEET
C4601	WATER RETICULATION PLAN - SHEET 1
C4602	WATER RETICULATION PLAN - SHEET 2
C4603	WATER RETICULATION PLAN - SHEET 3
C4700	BUSHFIRE TRAIL 3 AND 4 PLAN
C4701	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 1
C4702	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 2
C4703	BUSHFIRE TRAIL 3 LONGITUDINAL SECTION - SHEET 3
C4704	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 1
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C4706	BUSHFIRE TRAIL 3 CROSS SECTIONS - SHEET 3
C4707	BUSHFIRE TRAIL 4 LONGITUDINAL AND CROSS SECTIONS
C4708	BUSHFIRE TRAIL 5 AND 6 PLAN
C4709	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 1
C4710	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 2
C4711	BUSHFIRE TRAIL 5 LONGITUDINAL SECTION - SHEET 3
C4712	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 1
C4713	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 2
C4714	BUSHFIRE TRAIL 5 CROSS SECTIONS - SHEET 3
C4715	BUSHFIRE TRAIL 6 LONGITUDINAL AND CROSS SECTIONS
C4716	BUSHFIRE TRAIL DETAILS

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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IF IN DOUBT - ASK.

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 100 200 300 400 500m
SCALE 1:5000

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
COVER SHEET

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4000	SHEET SIZE A1
		REVISION 2

GENERAL NOTES

- G1. ALL LEVELS SHALL BE OBTAINED FROM ESTABLISHED BMS OR SSM.
- G2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK.
- G3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH COUNCIL'S SPECIFICATIONS AND THE DIRECTIONS OF THE SUPERINTENDENT.
- G4. DIMENSIONS MUST NOT BE SCALED FROM DRAWINGS.
- G5. CONTRACTOR TO ENSURE THAT ALL ROADWORKS ARE SMOOTHLY TRANSITIONED TO EXISTING LEVELS FREE FROM ABRUPT CHANGES.
- G6. THE CONTRACTOR SHALL ARRANGE ALL SURVEY SETOUT TO BE CARRIED OUT BY A REGISTERED SURVEYOR. FURTHER, THE LOCATION OF RECOVERY MARKS SHOULD BE VERIFIED AND CONFIRMED BY THE CONTRACTOR AND ANY DISCREPANCIES SHOULD BE CLARIFIED IN WRITING WITH THE SUPERINTENDENT PRIOR TO THE COMMENCEMENT OF WORK.
- G7. AT COMPLETION OF WORKS ALL ADJOINING DISTURBED AREAS ARE TO BE REINSTATED TO THE "AS FOUND" CONDITION.
- G8. THE CONTRACTOR SHALL ENSURE ALL AREAS DRAIN WITH A MINIMUM FALL OF 1% (1:100) GRADE TO OUTLETS UNLESS INDICATED OTHERWISE. NO WORKS SHALL CAUSE PONDING OF STORMWATER ON UPSTREAM PROPERTIES OR CONCENTRATE RUNOFF ONTO DOWNSTREAM PROPERTIES.
- G9. THESE PLANS SHALL BE READ IN CONJUNCTION WITH APPROVED LANDSCAPE, ARCHITECTURAL, ELECTRICAL, RETICULATION, WATER AND SEWER DRAWINGS AND SPECIFICATIONS AND OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED.
- G10. THE CONTRACTOR SHALL ENSURE THAT ALL PAVEMENTS GRADE EVENLY BETWEEN NOMINATED RLS ON PLAN AND NO POND OF WATER OCCURS.
- G11. ALL DIMENSIONS ARE IN METERS UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METERS.
- G12. DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.
- G13. WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS, AND THE LOCAL STATUTORY AUTHORITIES, EXCEPT WHERE VARIED BY THE CONTRACT DOCUMENTS.
- G14. THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER. BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRAS INVOLVED MUST BE TAKEN UP WITH THE SUPERINTENDENT BEFORE THE WORK COMMENCES.
- G15. THE CONTRACTOR IS TO EMPLOY A QUALIFIED GEOTECHNICAL ENGINEER AS REQUIRED FOR ALL GEOTECHNICAL ASPECTS OF THE BUILDING WORKS. REFER TO FOUNDATION, GROUNDWORKS AND RETENTION/SHORING NOTES. REFER ALSO TO THE GEOTECHNICAL REPORT FOR THIS PROJECT.
- G16. ORIGINAL SURVEY WAS COMPLETED BY BPLANNED & SURVEYED PH 1300 275 266

SUBGRADE PREPARATION

- RW1. REMOVE ALL VEGETATION, TOPSOIL AND DELETERIOUS MATERIAL FROM AREA OF PROPOSED BUILDING PLATFORM AND PAVEMENTS.
- RW2. PROOF ROLL EXPOSED SUB GRADE TO ACHIEVE A MINIMUM COMPACTION OF 98% STANDARD MAXIMUM DRY DENSITY (SMD), DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1.
- RW3. REMOVE ANY SOFT, HEAVING, WET OR UNSTABLE AREAS IDENTIFIED DURING PROOF ROLLING AND REPLACE USING SELECT IMPORTED FILL COMPACTED IN LAYERS NOT EXCEEDING 200mm MEASURED LOOSE TO ACHIEVE A MINIMUM 98% STANDARD MAXIMUM DRY DENSITY.
- RW4. NOTE THAT THE SITE IS UNDERLAIN BY EXISTING SERVICES AND COMPACTION UTILISING VIBRATION MAY NOT BE SUITABLE IN THE VICINITY OF UNDERGROUND SERVICES.
- RW5. ANY FILL REQUIRED TO RAISE LEVELS TO BULK EARTHWORKS TO WITHIN 50mm OF NOMINATED LEVELS IS TO BE APPROVED GRANULAR MATERIAL COMPACTED IN LAYERS NOT EXCEEDING 300mm MEASURED LOOSE TO 98% STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC).
- RW6. THE CONTRACTOR IS TO PROVIDE CERTIFICATION TO THE EFFECT THAT EARTHWORKS COMPACTION TO 98% STANDARD MAXIMUM DRY DENSITY, (AS 1289 E.1.1, E.4.1) HAS BEEN ACHIEVED, UNLESS OTHERWISE AGREED IN WRITING BY SITE SUPERINTENDENT.
- RW7. THE CONTRACTOR IS TO PROVIDE TO THE SITE SUPERINTENDENT A SURVEY CONFIRMATION FROM A REGISTERED SURVEYOR, CONFIRMING BULK EARTHWORKS LEVELS AS WITHIN +/-50mm OF LEVELS NOMINATED.
- RW8. SUBGRADE REPLACEMENT MATERIAL IS TO CONSIST OF CLEAN, UNCONTAMINATED, WELL-GRADED MATERIAL WITH A MAXIMUM PARTICLE SIZE OF 75mm, WITH 80% LESS THAN 20mm, AND A SOAKED C.B.R. GREATER THAN 10% AND A PLASTICITY INDEX LESS THAN 12.
- RW9. BACK FILLING FOR SERVICE TRENCHES AND REMOVED SERVICES OR PITS OR FOUNDATIONS IS TO USE APPROVED WELL-GRADED GRANULAR MATERIAL WITH MINIMUM VOIDS, (EITHER SELECT INSITU OR IMPORTED FILL), COMPACTION AS SPECIFIED ABOVE.
- RW10. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH AS3798-1996: GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS.

GENERAL EARTHWORKS

- E1. THE SITE OF THE WORKS SHALL BE PREPARED BY STRIPPING ALL EXISTING TOPSOIL, FILL AND VEGETATION.
- E2. COMPACT SUBGRADE TO 98% OF THE STANDARD MAXIMUM DRY DENSITY WHEN TESTED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 1289 TESTS E.1.1. OR E.1.2. THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED TO DETECT ANY SOFT OR WET AREAS WHICH SHOULD BE LOCALLY EXCAVATED AND BACK FILLED WITH SELECTED MATERIAL. THE BACK FILLING MATERIAL SHALL BE IMPORTED GRANULAR FILL OF LOW PLASTICITY, PREFERABLY CRUSHED SANDSTONE, AND TO BE PLACED IN LAYERS NOT EXCEEDING 300mm LOOSE THICKNESS AND COMPACTED TO 98% OF STANDARD MAXIMUM DRY DENSITY WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT. SITE WORKS ARE TO BE BATTERED TO ADJACENT PROPERTY LEVELS.
- E3. NO STORMWATER IS TO POND ON ADJOINING PROPERTIES. THE SITE SHALL BE GRADED AND DRAINED SO THAT STORMWATER WILL BE DIRECTED AWAY FROM THE BUILDING PLATFORM. STORMWATER DRAINAGE SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ALL STORMWATER RUNOFF SHALL BE GRADED AWAY FROM THE DWELLING AND DISPOSED OF VIA SURFACE CATCHDRAINS AND STORMWATER COLLECTION PITS.
- E4. ENSURE ALL RETAINING WALLS ARE CONSTRUCTED WITH ADEQUATE SUBSOIL DRAINAGE.

GROUND WORKS AND EXCAVATION

- GW1. ALL GROUND WORKS AND EXCAVATION SHALL BE IN ACCORDANCE WITH GEOTECHNICAL REPORT: 93323.00.R01.Rev01.
- GW2. SEPARATE AND REMOVE ALL TOPSOIL, NON SOIL MATERIAL, CONCRETE, VEGETATION, BRICKBATS, TIMBER, ROOT AFFECTED SOIL AND EXISTING FILL. STORE TOPSOIL IF REQUIRED.
- GW3. ALL EXCAVATIONS SHALL BE FINISHED CLEAN AND HORIZONTAL AND SHALL NOT UNDERMINE FOOTINGS, WALLS etc...
- GW4. PROOF ROLL WITH AN 8 TONNE ROLLER, REPLACE ANY SOFT MATERIAL WITH APPROVED FILL AND RE-COMPACT. GEOTECHNICAL ENGINEER TO APPROVE.
- GW5. THE FILL IS TO BE PLACED AND COMPACTED IN LAYERS OF MAXIMUM LOOSE THICKNESS 300mm.
- GW6. TOP LAYER OF PAVED AREAS TO BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY. GEOTECHNICAL ENGINEER TO VERIFY.
- GW7. ALL PERMANENT EMBANKMENTS TO BE COMPACTED IN 200 mm LAYERS AS PER NOTE G16 AND AT A MAXIMUM SLOPE OF 1 VERTICAL TO 2.5 HORIZONTAL UNLESS NOTED OTHERWISE. SHOULD DRAINAGE BE REQUIRED THEN SUBMIT DETAILS TO THE ENGINEER.
- GW8. ALL GROUND WORKS SHALL BE TESTED BY AN APPROVED GEOTECHNICAL ENGINEER TO A LEVEL 1 STANDARD IN ACCORDANCE WITH AS 3798 - 1996.
- GW9. ALL EXCAVATIONS TO BE INSPECTED AT REGULAR INTERVALS BY A GEOTECHNICAL ENGINEER.
- GW10. REFER TO ARCHITECTURAL DRAWINGS TO CONFIRM SETOUT OF BUILDINGS, CARPARKS ETC.
- GW11. THE LEVELS SHOWN ARE ONLY RELEVANT TO THE PLAN UPON WHICH THEY ARE SHOWN.
- GW12. ALL CONTOURS AND LEVELS USED TO PRODUCE EARTHWORK DETAILS HAVE BEEN BASED ON SURVEYOR AND ARCHITECTS SURVEY INFORMATION.
- GW13. ALL FINISHED FLOOR LEVELS ARE TO BE CONFIRMED BY ARCHITECT.
- GW14. ALL EXISTING SERVICES ARE TO BE CAPPED OFF PRIOR TO ANY WORKS.
- GW15. A PRE-CONSTRUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR, THE GEOTECHNICAL ENGINEER, AND THE EARTHWORKS CONTRACTOR TO UNDERSTAND POTENTIAL DIFFICULTIES AND TO ORGANISE TESTING PROCEDURES. THE CONTRACTOR SHALL CONFIRM TO THE ENGINEER THAT THE MEETING HAS BEEN HELD.

DRAINAGE NOTES

- D1. PIT LEVELS SHOWN ON STORMWATER DRAINAGE PLANS ARE FOR INFORMATION. EXACT PIT LEVELS TO BE ADJUSTED TO SUIT FALLS IN PAVEMENT/LANDSCAPED AREA.
- D2. PITS GREATER THAN 1.2m DEEP TO BE FITTED WITH STEP IRONS.
- D3. DRAINAGE PIPES SHALL BE BACKFILLED WITH COMPACTED CLEAN SHARP SAND TO 200 ABOVE PIPE OBVERT. ADDITIONAL BACKFILL UNDER ROADS SHALL CONSIST OF CLASS 2 F.C.R. MATERIAL COMPACTED IN 200mm LAYERS TO 98% SMD. UNDER LANDSCAPED AREAS ADDITIONAL BACKFILL SHALL CONSIST OF GRANULAR MATERIAL COMPACTED IN 200mm LAYERS TO 95% SMD. A 3m LENGTH OF 100 Ø SLOTTED AGRICULTURAL LINE SURROUNDED BY GEOTECH STOCKING SHALL BE PROVIDED ON THE UPSTREAM SIDE OF ALL PITS.
- D4. CONCRETE STORMWATER PIPES TO BE CLASS '3' UNDER ROADS AND CLASS '2' IN NON-TRAFFICED AREAS. ALL PIPES GREATER THAN 3000 ARE TO BE RUBBER RING JOINTS U.N.O.
- D5. CONCRETE PITS GREATER THAN 1.0m DEEP TO BE REINFORCED WITH N12-200 EACH WAY CENTRED, MIN. 300 LAP, CONCRETE - Fc 25MPa
- D6. 1500, 2250 AND 3000 uPVC PIPES TO BE SEWER GRADE PIPE UNDER TRAFFICABLE PAVEMENT. MIN. 400 COVER UNDER NON-TRAFFICABLE PAVEMENT.
- D7. PIT COVERS AND GRATED DRAINS IN TRAFFICABLE PAVEMENT TO BE AS 3996 CLASS D "HEAVY DUTY" AND IN NON-TRAFFICABLE AREAS TO BE AS 3996 CLASS C "LIGHT DUTY".
- D8. SUPERINTENDENT TO APPROVE LOCATION OF SUBSOIL OUTLET HEADWALLS IN ACCORDANCE WITH IPWEAQ STD DRG RS-142.

UTILITY SERVICES

- S1. CONDUITS TO BE PROVIDED FOR WATER AND ENERGY AUTHORITIES, TELSTRA AND OTHER SERVICES AS REQUIRED.
- S2. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM SURVEY AND AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
- S3. VAN DER MEER CANNOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS, ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN ARISING FROM ANY CAUSE WHATSOEVER.
- S4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY WORK. ANY DISCREPANCIES SHALL BE REPORTED TO THE SUPERINTENDENT. CLEARANCES SHALL BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY.
- S5. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ON SITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
- S6. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION OR FUTURE WORKS.
- S7. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.

TELSTRA - DUTY OF CARE NOTE:
TELSTRA'S PLANS SHOW ONLY THE PRESENCE OF CABLES AND PLANT. THEY ONLY SHOW THEIR POSITION RELATIVE TO ROAD BOUNDARIES, PROPERTY FENCES ETC. AT THE TIME OF INSTALLATION AND TELSTRA DOES NOT WARRANT OR UPHOLD THAT SUCH PLANS ARE ACCURATE THEREAFTER DUE TO CHANGES THAT MAY OCCUR OVER TIME. DO NOT ASSUME DEPTH OR ALIGNMENT OF CABLES OR PLANT AS THESE VARY SIGNIFICANTLY.

THE CONTRACTOR HAS A DUTY OF CARE WHEN EXCAVATING NEAR TELSTRA CABLES AND PLANT. BEFORE USING MACHINE EXCAVATORS TELSTRA PLANT MUST FIRST BE PHYSICALLY EXPOSED BY SOFT DIG POT HOLING TO IDENTIFY ITS LOCATION. TELSTRA WILL SEEK COMPENSATION FOR DAMAGES CAUSED TO ITS PROPERTY AND LOSSES CAUSED TO TELSTRA AND ITS CUSTOMERS.

ELECTRICAL AND GAS NETWORK:
A MINIMUM OF 30 DAYS PRIOR TO COMMENCEMENT OF EXCAVATION WORKS THE SUBCONTRACTOR MUST CONTACT DIAL BEFORE YOU DIG.

RETAINING WALL GENERAL

- GR1. BASE MATERIAL SHALL BE COMPACTED TO MINIMUM 98% STANDARD MAXIMUM DRY DENSITY (SMD) WITHIN 2% OF STANDARD OPTIMUM MOISTURE CONTENT (SOMC) DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. MINIMUM ALLOWABLE BEARING PRESSURE OF 150 kPa. GEOTECHNICAL ENGINEER EMPLOYED BY CONTRACTOR TO INSPECT AND CONFIRM.
- GR2. DRAINAGE MATERIAL WITHIN AND IMMEDIATELY BEHIND THE WALL SHALL BE 12-20mm CLEAN AGGREGATE. DRAINAGE MATERIAL TO EXTEND A MINIMUM 300mm BEHIND WALL. COMPACT DRAINAGE MATERIAL. ALTERNATIVELY USE NO FINES CONCRETE, AS FOLLOWS:
• CONCRETE STRENGTH M15.
• 210kg/m³ PORTLAND CEMENT
• MAXIMUM AGGREGATE SIZE 20 mm.
• W/C RATIO 0.45 TO 0.55.
• DENSITY 1600 TO 2000 kg/m³.
- GR3. INFILL SOIL SHALL BE CLASS 1 CONTROLLED FILL TO AS4678, OR AS SPECIFIED ON THE DRAWINGS. UNSUITABLE SOILS, SUCH AS HEAVY CLAYS OR ORGANIC SOILS WITH HIGH PLASTICITY, SHALL NOT BE USED IN THE REINFORCED SOIL MASS.
- GR4. SPREAD BACKFILL IN UNIFORM LIFTS OF 200mm UNCOMPACTED THICKNESS. COMPACT TO MINIMUM 95% OF SMD. COMPACTION WITHIN 1.0 m BEHIND THE WALL SHALL BE ACCOMPLISHED BY USING A HAND-OPERATED PLATE COMPACTOR AND SHALL BEGIN BY RUNNING THE PLATE DIRECTLY ON THE BLOCK, THEN COMPACTING IN PARALLEL PATHS, PROGRESSIVELY AWAY FROM THE WALL FACE.
- GR5. WHERE ROADWAYS OR BUILDING STRUCTURES ARE LOCATED ABOVE THE REINFORCED ZONE, COMPACT TO 98% SMD WITHIN 2% OF SOMC DETERMINED BY THE STANDARD COMPACTION TEST IN ACCORDANCE WITH CURRENT AUSTRALIAN STANDARD 1289.5.1.1. COMPACTION TESTING SHALL BE TAKEN AT 1.2m BEHIND THE WALL.

PAVEMENT

- F1. SUBGRADE SHALL BE PREPARED AS OUTLINED IN EARTHWORKS.
- F2. PAVEMENT MATERIAL SHALL CONSIST OF APPROVED OR RIPPED SANDSTONE, NATURAL GRAVEL OR FINE CRUSH ROCK AS PER COUNCIL SPECIFICATION.
- F3. PAVEMENT MATERIALS SHALL BE SPREAD IN LAYERS NOT EXCEEDING 150mm AND NOT LESS THAN 75mm COMPACTED THICKNESS. PAVEMENT MATERIALS SHALL BE SIZED AND OF A STANDARD OUTLINED IN AS1141.
- F4. CRUSHED OR RIPPED SANDSTONE SHALL BE MINUS 75mm NOMINAL SIZE DERIVED FROM SOUND, CLEAN SANDSTONE FREE FROM OVERBURDEN, CLAY SEAMS, SHALE AND OTHER DELETERIOUS MATERIAL.
- F5. PAVEMENT MATERIALS SHALL BE COMPACTED BY SUITABLE MEANS TO SATISFY THE FOLLOWING MINIMUM SPECIFICATIONS (AS PER AS1289.52)
- | DESCRIPTION | MODIFIED DENSITY RATIO |
|--------------------|------------------------|
| SUB-BASE | 98% MDD |
| BASE COURSE | 98% MDD |
| ASPHALTIC CONCRETE | 97% MDD |
- AND SUBJECT TO COUNCIL'S CONSTRUCTION SPECIFICATION.
- F6. TESTING FOR EACH LAYER SHALL BE UNDERTAKEN BY A N.A.T.A. REGISTERED LABORATORY IN ACCORDANCE WITH AS1289, AT NOT MORE THAN 50m INTERVALS AND A MINIMUM OF TWO PER LAYER OR AS PER LOCAL PLANNING SCHEME. FURTHER FREQUENCY OF TESTING SHALL BE NO LESS THAN THAT REQUIRED BY AS3978-1996.
- F7. A MINIMUM GRAVEL LAYER 150-200mm ABOVE THE GEOGRID SHALL BE ADHERED TO AS PER SUPPLIER (GLOBAL SYNTHETICS) REQUIREMENTS AND SPECIFICATIONS.

AS CONSTRUCTED

PRIVATE WORKS (SITE CIVIL WORKS)

- THE CONTRACTOR SHALL PROVIDE THE FOLLOWING AS-CONSTRUCTED DOCUMENTATION TO VAN DER MEER PRIOR TO PRACTICAL COMPLETION OF CIVIL WORKS:
- PW.01 A COMPLETE SURVEY OF COMPLETED SURFACE INCLUDING SURFACE LEVELS OF ALL STRUCTURES INCLUDING BUT NOT LIMITED TO:
- STORMWATER MANHOLES AND PITS.
 - BIO-RETENTION AREAS, INCLUDING BASE AND TOP OF FILTER TRENCH MATERIAL AND AREA INSTALLED, IF APPLICABLE.
 - WATER SERVICE CONNECTION INCLUDING FITTINGS AND METERS.
 - SEWERAGE PROPERTY CONNECTIONS INCLUDING MANHOLES.
 - SEWER PUMP STATIONS, IF APPLICABLE.
- PW.02 COPIES OF NATA TEST CERTIFICATE RESULTS IN RESPECT OF:
- THE COMPACTION OF FILL INCLUDING COMPACTION OF TRENCH BACKFILL.
 - EARTHWORKS CERTIFICATION FROM GEOTECHNICAL RPEQ INCLUDING LEVEL 1 CERTIFICATION WHERE REQUIRED.
 - THE SUB-GRADE CBR.
 - THE SUB-GRADE COMPACTION.
 - THE LOWER SUBBASE (CBR 15) MATERIAL QUALITY.
 - THE LOWER SUBBASE (CBR 15) COMPACTION.
 - THE SUB-BASE COURSE (CBR 45) MATERIAL QUALITY.
 - THE SUB-BASE COURSE (CBR 45) COMPACTION.
 - THE BASE COURSE (CBR 80) MATERIAL QUALITY.
 - THE BASE COURSE (CBR 80) COMPACTION.
 - THE PRIME OR PRIMER SEAL SPRAY AND APPLICATION RATES.
 - THE AC CORE TESTS.
 - ANY CONCRETE TESTING REQUIRED.
 - CCTV VIDEO FOR UNDERGROUND STORMWATER INFRASTRUCTURE WORK.
- PW.03 DURING CONSTRUCTION, DIGITAL PHOTOGRAPHS MUST:
- BE TAKEN OF COMPLEX CONSTRUCTIONS OR INSTALLATIONS WHICH WILL BE BELOW GROUND LEVEL OR NOT VISIBLE AFTER CONSTRUCTION COMPLETION OR AS REQUESTED ON SITE.
 - BE TAKEN PRIOR TO BACKFILLING.
 - INCLUDE A CHAINAGE OR EXACT LOCATION REFERENCE IN THE TITLE OF THE DIGITAL PHOTO FILE.
 - BE DATE STAMPED.

COUNCIL WORKS

- CW.01 TO PROVIDE AS CONSTRUCTED INFORMATION AS PER LOCAL COUNCIL SUBMISSION GUIDELINES REQUIREMENTS.

REINFORCED CONCRETE BLOCKWORK

- M1. CONCRETE BLOCKS SHALL BE BORAL 'CORE FILL BLOCKS', DOUBLE-U TYPE, OR SIMILAR APPROVED.
- M2. MINIMUM DURABILITY REQUIREMENTS:

LOCATION	SALT ATTACK RESISTANCE GRADE OF MASONRY UNIT	MORTAR CLASS	DURABILITY CLASS OF WALL TIES AND BUILT-IN COMPONENTS
INTERIOR MASONRY	GENERAL PURPOSE	M3	R3
EXTERIOR MASONRY ABOVE DAMP PROOF COURSE	GENERAL PURPOSE	M3	R3
BELOW DAMP PROOF COURSE OR IN CONTACT WITH GROUND	EXPOSURE	M4	R4

M3. MINIMUM STRENGTH REQUIREMENTS:

ELEMENT	STRENGTH OF MASONRY UNIT	MORTAR CLASS #
CONCRETE BLOCKWORK (REINF)	f _{uc} = 15 MPa	M3

- # UNLESS A HIGHER CLASSIFICATION IS REQUIRED FOR DURABILITY (REFER NOTE M2).
- M4. LAY BOTTOM COURSE OF BLOCKS ON FULL MORTAR BED.
- M5. ALL PERPENDS SHALL BE FILLED WITH MORTAR, EXCEPT WEEPHOLES.
- M6. ALL CORES SHALL BE GROUTED UNLESS NOTED OTHERWISE.
- M7. GROUT FOR CORE FILLING SHALL BE IN ACCORDANCE WITH AS3600, WITH THE FOLLOWING PROPERTIES:
- STRENGTH GRADE S20
 - MAX. AGGREGATE SIZE 10mm
 - SLUMP 230mm ± 25mm
 - MIN. CEMENT CONTENT 300kg/m³ M7. PROVIDE VERTICAL CONTROL JOINTS IN MASONRY WALLS AS FOLLOWS :

WALL TYPE	JOINT WIDTH	MAX JOINT SPACING
CONCRETE BLOCKWORK (REINF)	15mm	12m

- M7. AT CORNERS, CONTROL JOINTS SHALL BE WITHIN HALF THE SPECIFIED JOINTS SPACING FROM THE CORNER. JOINTS SHALL BE SEALED WITH AN APPROVED FLEXIBLE SEALANT. PROVIDE JOINTS TO MATCH JOINTS IN SUPPORTING SLABS.
- M8. PROVIDE CLEANOUT OPENINGS AT THE BASE OF ALL REINFORCED CORES AND REMOVE ALL MORTAR PROTRUSIONS BEFORE GROUTING. ADDITIONAL CLEANOUT OPENINGS SHALL BE PROVIDED ABOVE EACH HORIZONTAL POUR BREAK.
- M9. MAXIMUM HEIGHT OF POUR FOR GROUTING SHALL NOT EXCEED 3.6m FOR 190 LOCKWORK, AND 0.8m FOR 140 BLOCKWORK. STOP POUR 50mm BELOW TOP OF BLOCK TO PROVIDE KEY FOR SUBSEQUENT POUR.
- M10. GROUT SHALL BE THOROUGHLY COMPACTED IN THE CORES BY RODDING OR MECHANICAL VIBRATION.

CONCRETE

- C1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 AND OTHER RELEVANT AUSTRALIAN STANDARDS.
- C2. CONCRETE SHALL BE SUPPLIED BY AN APPROVED MANUFACTURER IN ACCORDANCE WITH AS1379.
- C3. CONCRETE SHALL HAVE THE FOLLOWING PARAMETERS:
- | ELEMENT | SLUMP (mm) | AGGREGATE | f _c (MPa) | OTHER REQ |
|-----------------------|------------|-----------|----------------------|-----------|
| EXTERNAL VEHICLE SLAB | + 80 | 20 | N32 | (1) |
- + DENOTES SLUMP AT PLANT
(1) DENOTES MAXIMUM BASE SHRINKAGE STRAIN 600 x 10⁻⁶ AT 56 DAYS (TO AS 1012 PART 13)
- C4. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- C5. BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS, IF ANY.
- C6. HOLES, CHASES OR EMBEDMENT ITEMS, INCLUDING PIPES AND CONDUITS SHALL NOT BE PLACED IN CONCRETE MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- C7. CONDUITS, PIPES AND LIKE SHALL NOT BE PLACED WITHIN THE CONCRETE COVER, NOR DISPLACE THE REINFORCEMENT LAYERS.
- C8. CONSTRUCTION JOINTS (CJ) SHALL BE PROPERLY FORMED AND USED ONLY WHERE SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER. ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY SCABBLED.
- C9. THE MAXIMUM HEIGHT OF POUR FOR CONCRETE ELEMENTS SHALL BE 3m UNLESS METHOD OF PLACEMENT HAS BEEN APPROVED BY THE ENGINEER. COLUMNS SHALL NOT BE POURED WITH THE SLAB OVER.
- C10. CONCRETE SHALL BE THOROUGHLY COMPACTED IN THE FORMS BY MEANS OF MECHANICAL VIBRATION.
- C11. WHEN THE SHADE TEMPERATURE EXCEEDS 35°C, THE EXPOSED SURFACE OF CONCRETE SHALL BE SPRAYED WITH A FINE FILM OF APPROVED ALIPHATIC ALCOHOL DURING CONCRETE PLACEMENT AND FINISHING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ENSURING ADEQUATE SUPPLY OF ALIPHATIC ALCOHOL ON SITE BEFORE COMMENCING CONCRETE WORK.

- C12. CURING OF CONCRETE SHALL COMMENCE WITHIN 2 HOURS OF FINISHING OPERATIONS AND SHALL BE MAINTAINED FOR A MINIMUM OF 7 DAYS USING AN APPROVED PROPRIETARY CURING COMPOUND IN ACCORDANCE WITH AS 3799 AND COMPATIBLE WITH THE PROPOSED FINISH OR CONTINUOUS PONDING WITH POTABLE WATER. THE CONTRACTOR TO SUBMIT PROPOSED CURING PROCEDURE FOR APPROVAL OF THE ENGINEER.
- C13. ALL CONCRETE DELIVERED TO SITE SHALL BE SUBJECT TO PROJECT ASSESSMENT IN ACCORDANCE WITH AS 1379.
- C14. THE CONTRACTOR SHALL NOMINATE A CONCRETE DELIVERY SUPERVISOR WHO SHALL BE A SUITABLE EXPERIENCED PERSON FOR THE APPROVAL OF THE ENGINEER, TO MONITOR THE DELIVERY AND PLACING OF THE CONCRETE FOR EACH POUR ON THE PROJECT. IN ADDITION, THE MANUFACTURER SHALL SAMPLE AND TEST FOR DRYING SHRINKAGE EACH TYPE OF CONCRETE SUPPLIED, AT LEAST EVERY MONTH DURING THE COURSE OF THE PROJECT OR FOR EVERY 1000 CUBIC METRES PLACED. NATA TEST CERTIFICATES SHALL BE FORWARDED TO THE ENGINEER. THE RESULTS OF THESE TESTS SHALL ALSO BE KEPT ON SITE.

CONCRETE SAMPLES AND TESTS

ARRANGE FOR A NATA REGISTERED TESTING LABORATORY TO TAKE SAMPLES OF AND TEST CONCRETE FOR COMPRESSION, FLEXURAL TENSILE STRENGTH (SLABS ON GROUND ONLY) AND SLUMP.

COMPRESSION TEST SAMPLES SHALL CONSIST OF 3 STANDARD CYLINDERS (4 STANDARD CYLINDERS FOR POST-TENSIONED CONCRETE), TESTED FOR COMPRESSIVE STRENGTH AS FOLLOWS:

ONE (1) CYLINDER AT 3 DAYS FOR POST-TENSIONED CONCRETE ONLY.
ONE (1) CYLINDER AT 7 DAYS.
TWO (2) CYLINDERS AT 28 DAYS.

THE MINIMUM NUMBER OF DAILY SAMPLES SHALL BE AS FOLLOWS:
IN COLUMNS/WALLS: 1 SAMPLE PER TRUCK
ALL OTHER CONCRETE OF ANY ONE TYPE AS FOLLOWS:
1 TRUCK PER DAY - 1 SAMPLE
2 TO 5 TRUCKS PER DAY - 2 SAMPLES
6 TO 10 TRUCKS PER DAY - 3 SAMPLES
10 TO 20 TRUCKS PER DAY - 4 SAMPLES
FOR EACH ADDITIONAL 10 TRUCKS PER DAY, 1 SAMPLE.

SLUMP: 1 SAMPLE PER TRUCK AT TIME OF POURING.

C16. REFER TO TYPICAL STRIPPING AND PROPPING DETAIL.

REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION



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SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
STANDARD NOTES

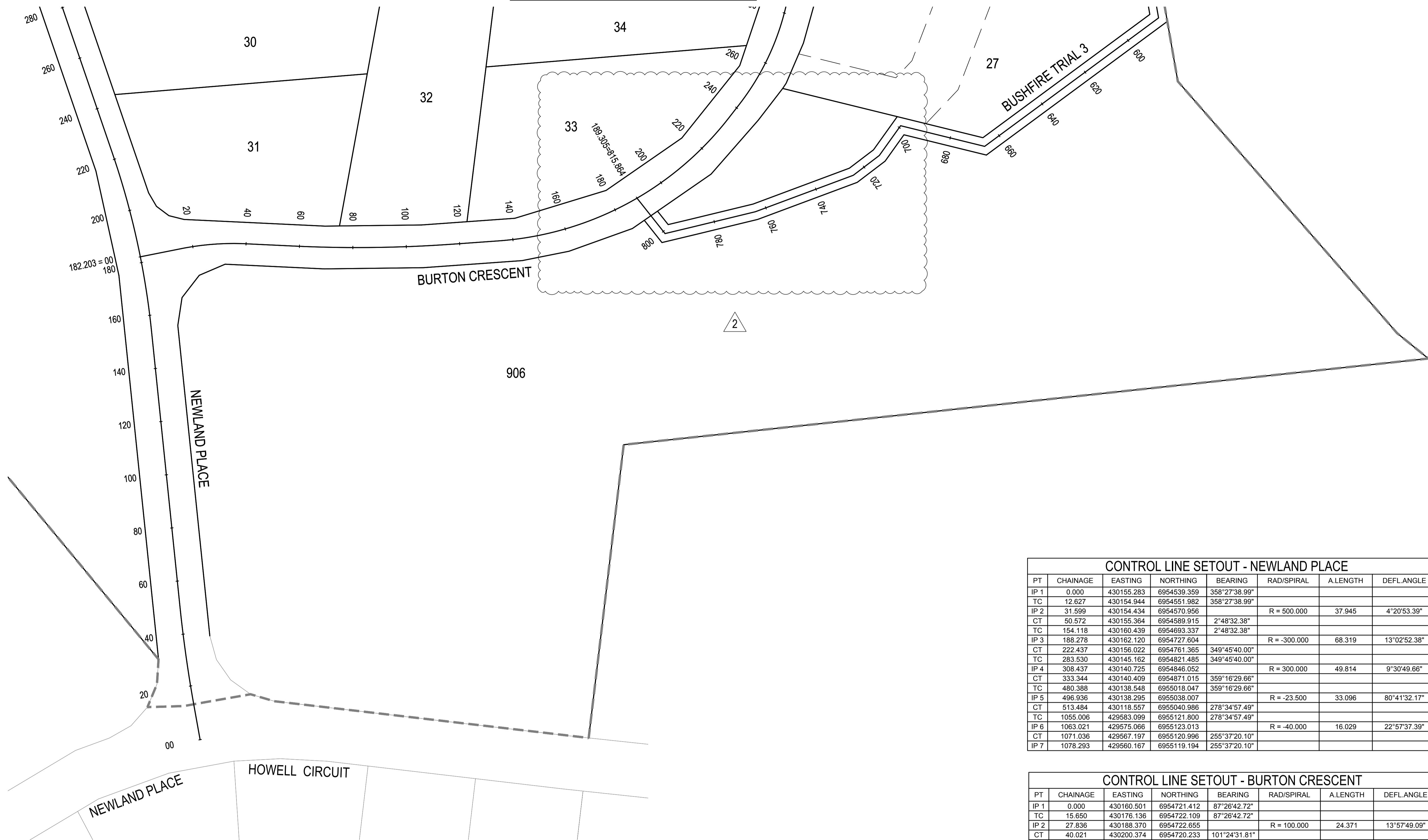
DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1

JOB No.	DRAWING No.	REVISION
BR242001	C4001	0

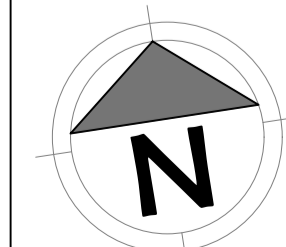
FOR CONTINUATION REFER DWG No. C4003



CONTROL LINE SETOUT - NEWLAND PLACE							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430155.283	6954539.359	358°27'38.99"			
TC	12.627	430154.944	6954551.982	358°27'38.99"			
IP 2	31.599	430154.434	6954570.956		R = 500.000	37.945	4°20'53.39"
CT	50.572	430155.364	6954589.915	2°48'32.38"			
TC	154.118	430160.439	6954693.337	2°48'32.38"			
IP 3	188.278	430162.120	6954727.604		R = -300.000	68.319	13°02'52.38"
CT	222.437	430156.022	6954761.365	349°45'40.00"			
TC	283.530	430145.162	6954821.485	349°45'40.00"			
IP 4	308.437	430140.725	6954846.052		R = 300.000	49.814	9°30'49.66"
CT	333.344	430140.409	6954871.015	359°16'29.66"			
TC	480.388	430138.548	6955018.047	359°16'29.66"			
IP 5	496.936	430138.295	6955038.007		R = -23.500	33.096	80°41'32.17"
CT	513.484	430118.557	6955040.986	278°34'57.49"			
TC	1055.006	429583.099	6955121.800	278°34'57.49"			
IP 6	1063.021	429575.066	6955123.013		R = -40.000	16.029	22°57'37.39"
CT	1071.036	429567.197	6955120.996	255°37'20.10"			
IP 7	1078.293	429560.167	6955119.194	255°37'20.10"			

CONTROL LINE SETOUT - BURTON CRESCENT							
PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430160.501	6954721.412	87°26'42.72"			
TC	15.650	430176.136	6954722.109	87°26'42.72"			
IP 2	27.836	430188.370	6954722.655		R = 100.000	24.371	13°57'49.09"
CT	40.021	430200.374	6954720.233	101°24'31.81"			
TC	58.038	430218.034	6954716.669	101°24'31.81"			
IP 3	87.733	430247.177	6954710.788		R = -500.000	59.391	6°48'20.39"
CT	117.428	430276.812	6954708.402	94°36'11.42"			
TC	134.629	430293.957	6954707.022	94°36'11.42"			
IP 4	184.944	430347.270	6954702.729		R = -120.000	100.628	48°02'47.09"
CT	235.258	430386.104	6954739.508	46°33'24.33"			
TC	241.529	430390.658	6954743.821	46°33'24.33"			
IP 5	275.195	430416.178	6954767.990		R = -95.000	67.330	40°36'27.74"
CT	308.860	430419.821	6954802.950	5°56'56.59"			
TC	315.692	430420.529	6954809.745	5°56'56.59"			
IP 6	388.124	430429.933	6954899.992		R = -95.000	144.864	87°22'10.09"
CT	460.556	430340.213	6954913.528	278°34'46.51"			
TC	638.819	430164.142	6954940.092	278°34'46.51"			
IP 7	646.739	430156.095	6954941.306		R = -100.000	16.240	9°18'16.85"
CT	654.859	430147.958	6954941.203	269°16'29.66"			
IP 8	663.296	430139.522	6954941.097	269°16'29.66"			

REVISIONS:		
No.	REVISION DESCRIPTION	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	31/10/24
0	ISSUED FOR CONSTRUCTION	02/08/24



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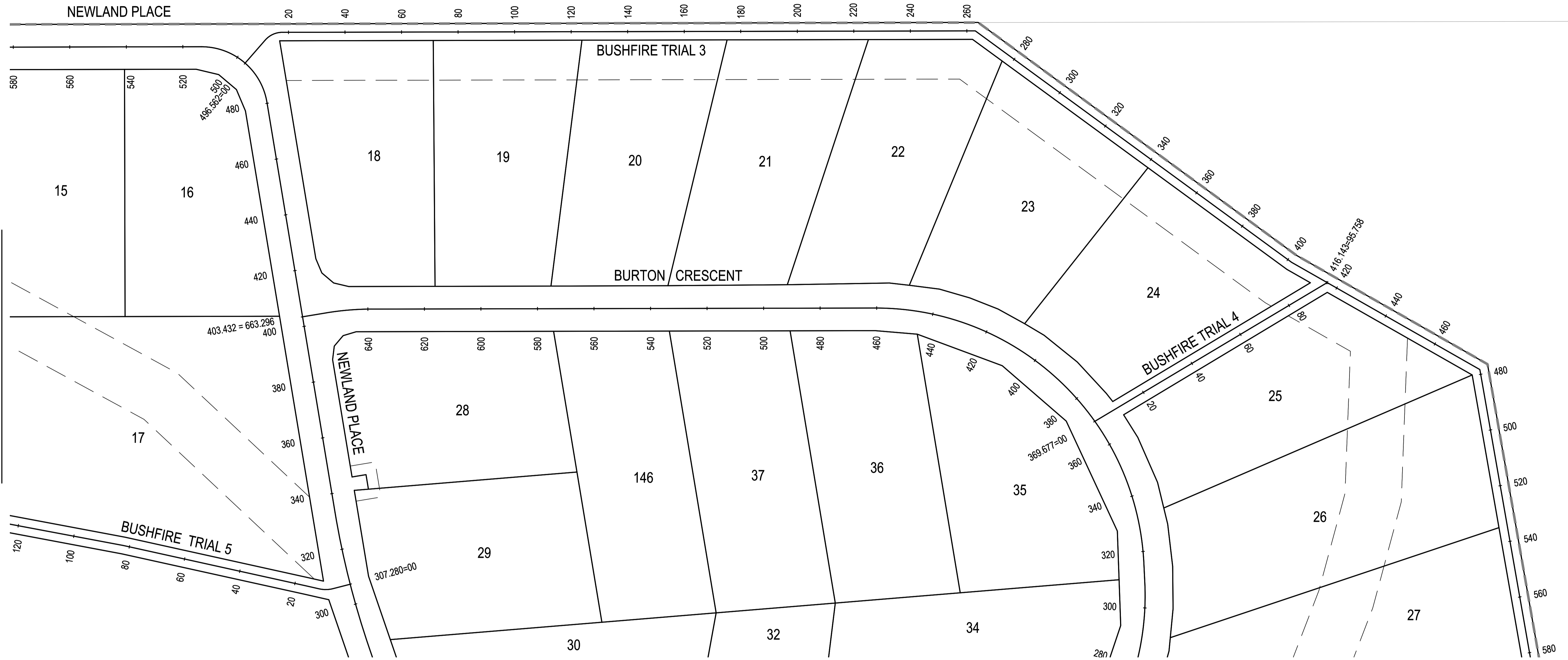
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 SCALE

 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
SITE PLAN SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SIGNATURE: [Signature]
 DRAFTSPERSON: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No.: BR242001
 DRAWING No.: C4002
 REVISION: 2

OR CONTINUATION REFER DWG No. C4004



FOR CONTINUATION REFER DWG No. C4002

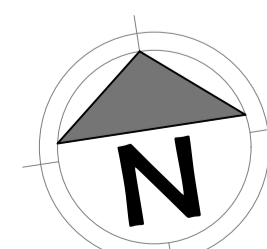
CONTROL LINE SETOUT - BUSHFIRE TRAIL 3

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A. LENGTH	DEFL. ANGLE
IP 1	0.000	430132.890	6955032.804	49°48'52.57"			
TC	10.985	430141.282	6955039.893	49°48'52.57"			
IP 2	14.390	430144.053	6955042.232		R = 8.000	6.809	48°45'53.94"
CT	17.794	430147.638	6955041.692	98°34'46.51"			
IP 3	262.984	430390.084	6955005.113				
IP 4	401.652	430488.313	6954907.236				
IP 5	478.299	430548.398	6954859.649				
IP 6	585.818	430550.741	6954752.155				
IP 7	666.750	430479.117	6954714.472				
IP 8	699.139	430449.198	6954726.875				
IP 9	712.841	430439.633	6954717.063				
IP 10	725.073	430428.891	6954711.213				
IP 11	764.170	430390.610	6954703.265				
IP 12	788.089	430366.780	6954701.205				
IP 13	798.958	430355.949	6954700.301				
IP 14	815.864	430347.573	6954714.986	330°18'00.00"			

CONTROL LINE SETOUT - BUSHFIRE TRAIL 4

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	430410.978	6954862.144	67°51'20.12"
IP 2	95.758	430499.672	6954898.239	67°51'20.12"

REVISIONS:		MP	02/08/24
No.	REVISION DESCRIPTION	DRAWN	DATE
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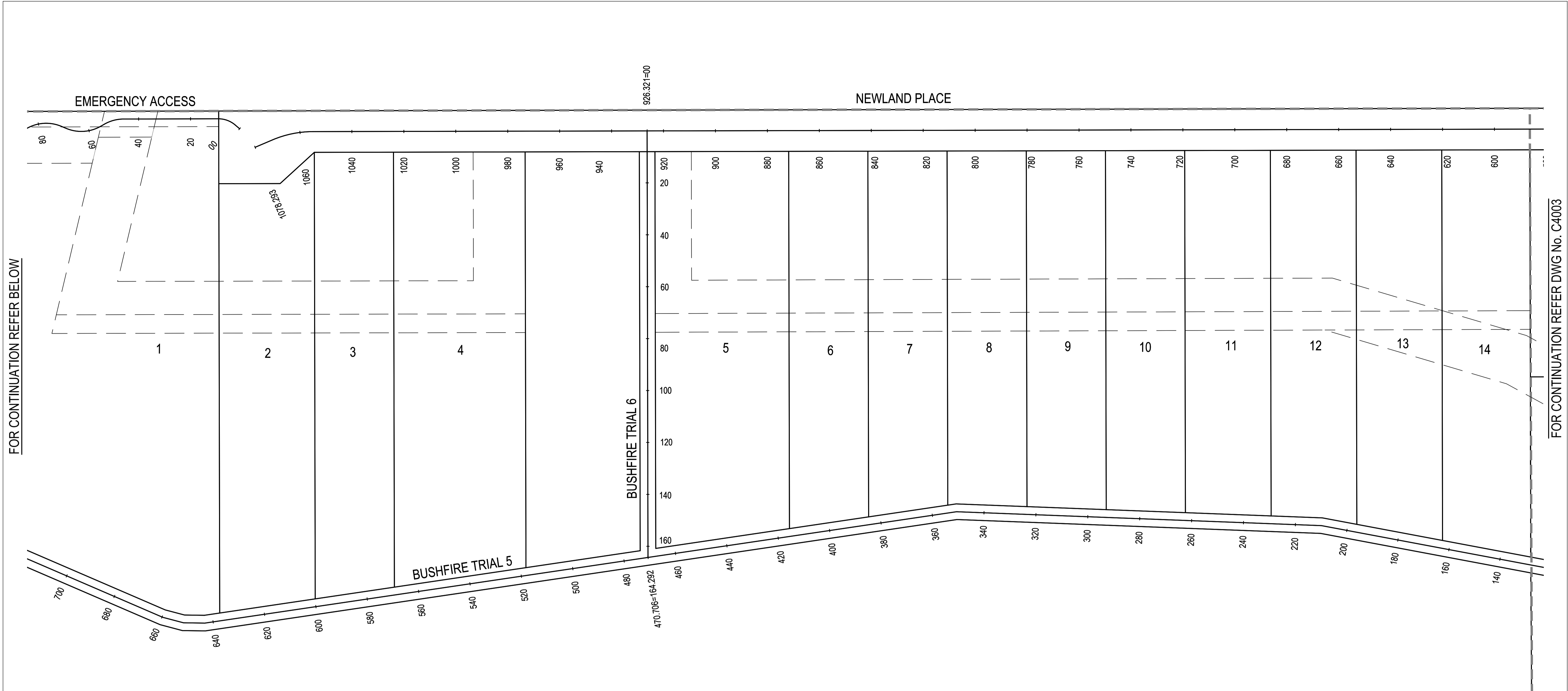
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 SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
SITE PLAN SHEET 2

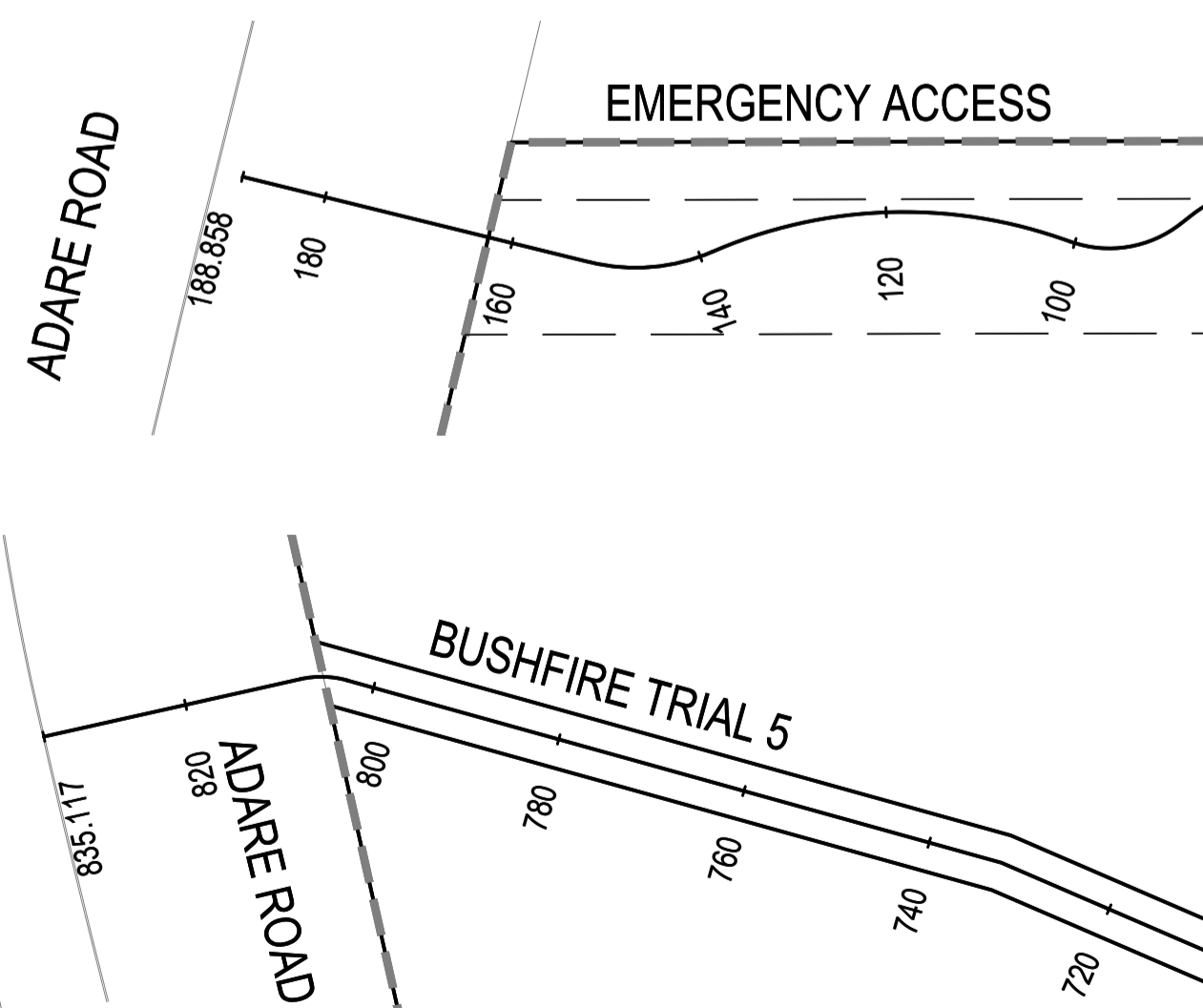
DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4003	SHEET SIZE A1
		REVISION 0



FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4003



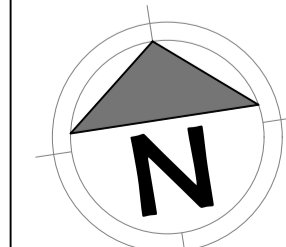
FOR CONTINUATION REFER ABOVE

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430132.890	6955032.804	49°48'52.57"			
TC	10.985	430141.282	6955039.893	49°48'52.57"			
IP 2	14.390	430144.053	6955042.232		R = 8.000	6.809	48°45'53.94"
CT	17.794	430147.638	6955041.692	98°34'46.51"			
IP 3	262.984	430390.084	6955005.113				
IP 4	401.652	430488.313	6954907.236				
IP 5	478.299	430548.398	6954859.649				
IP 6	585.818	430550.741	6954752.155				
IP 7	666.750	430479.117	6954714.472				
IP 8	699.139	430449.198	6954726.875				
IP 9	712.841	430439.633	6954717.063				
IP 10	725.073	430428.891	6954711.213				
IP 11	764.170	430390.610	6954703.265				
IP 12	788.089	430366.780	6954701.205				
IP 13	798.958	430355.949	6954700.301				
IP 14	815.864	430347.573	6954714.986	330°18'00.00"			

PT	CHAINAGE	EASTING	NORTHING	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	430141.870	6954845.000	264°17'49.22"			
TC	6.365	430135.536	6954844.367	264°17'49.22"			
IP 2	8.736	430133.131	6954844.127		R = 10.000	4.742	27°10'10.78"
CT	11.107	430130.882	6954845.011	291°28'00.00"			
IP 3	16.114	430126.224	6954846.843				
IP 4	82.169	430064.621	6954870.686				
IP 5	209.918	429944.088	6954913.014				
IP 6	350.579	429805.957	6954939.572				
IP 7	643.216	429513.324	6954940.941				
IP 8	651.458	429505.195	6954942.301				
IP 9	659.720	429497.621	6954945.602				
IP 10	732.210	429436.170	6954984.056				
TC	802.857	429371.770	6955013.100	294°16'30.00"			
IP 11	805.319	429369.479	6955014.133		R = -10.000	4.924	28°12'42.51"
CT	807.781	429366.972	6955013.961	266°03'47.49"			
IP 12	835.117	429339.700	6955012.084	266°03'47.49"			

PT	CHAINAGE	EASTING	NORTHING	BEARING
IP 1	0.000	429710.341	6955102.588	188°34'47.00"
IP 2	164.292	429685.831	6954940.134	188°34'47.00"

No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
SITE PLAN SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4004	SHEET SIZE A1 REVISION 0

FOR CONTINUATION REFER DWG No. C4101



GENERAL NOTES:

1. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND SEDIMENTATION DURING ALL STAGES OF THE CONSTRUCTION ACTIVITIES UNTIL COMPLETION OF THE WORKS.
2. THE ADOPTED EROSION AND SEDIMENT CONTROL MEASURES ARE APPROPRIATELY AMENDED IF SITE CONDITIONS OR SCOPE OF WORKS SIGNIFICANTLY CHANGES, OR ARE EXPECTED TO SIGNIFICANTLY CHANGE FROM THOSE CONDITIONS ASSUMED DURING DEVELOPMENT OF THE ESCP.
3. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH COUNCIL'S AND THE INTERNATIONAL EROSION CONTROL ASSOCIATION (IECA) GUIDELINES 2008.
4. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO GRUBBING WORKS.
5. WHERE KERB AND CHANNEL OR KERB ONLY IS INSTALLED, AN 800mm WIDE CONTINUOUS STRIP OF TURF WITH ADDITIONAL FILTER STRIPS AT 5.0m SPACING SHALL BE LAID BEHIND ALL KERBS. THE REMAINING UNSEALED VERGE AREA SHALL BE FILLED, GRADED AND GRASS SEEDING TO ACHIEVE 80% GRASS COVERAGE AT OFF MAINTENANCE. (UNLESS NOTED OTHERWISE)

LAND CLEARING AND VEGETATION MANAGEMENT:

1. CLEARING EXTENTS IS NOT TO EXCEED A DISTANCE OF 5.0m OUTSIDE OF THE CUT AND FILL HATCH EXTENTS. ALL VEGETATION IS TO BE REMOVED TO FACILITATE THE IDENTIFIED BULK EARTHWORKS.
2. LAND CLEARING SHOULD NOT OCCUR UNLESS PRECEDED BY THE INSTALLATION OF ALL NECESSARY DRAINAGE AND EROSION SEDIMENT CONTROL MEASURES.
3. WHEREVER PRACTICAL, RETAIN VEGETATION COVER ON SITE. LAND CLEARING IS TO BE STAGED TO MINIMISE THE EXTENT AND DURATION OF SOIL EXPOSURE. TIMING OF WORKS MUST BE CONSIDERED WHEN LAND CLEARING - BULK EARTHWORKS SHOULD BE CARRIED OUT DURING THE 'DRY SEASON' WHEN POSSIBLE.
4. RESTRICT MOVEMENT OF CONSTRUCTION EQUIPMENT TO AVOID UNNECESSARY SOIL COMPACTION.
5. AS WORKS PROCEED, DISTURBED AREAS SHOULD BE STABILISED, REHABILITATED, AND REVEGETATED AS SOON AS POSSIBLE AFTER EARTHWORKS HAVE BEEN COMPLETED.
6. CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
7. DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
8. REVEGETATION AND LANDSCAPING WORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH DOCUMENTED PLANS.

LEGEND

	SEDIMENT FENCING
	CONSTRUCTION ENTRY / EXIT
	SANDBAG CHECK DAM
	STAGE BOUNDARY

CUT FILL

	0.00m - 0.25m
	0.25m - 0.50m
	0.50m - 1.000m
	1.00m - 2.00m
	> 2.00m

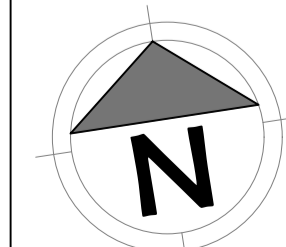
SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS		
DRAINAGE (unknown dia.)		
DRAINAGE (known dia.)		
ELECTRICITY		
O/H ELECTRICITY & POLE		
GAS		
WATER MAIN		

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	DRIVEWAY ADDED	MP	17/12/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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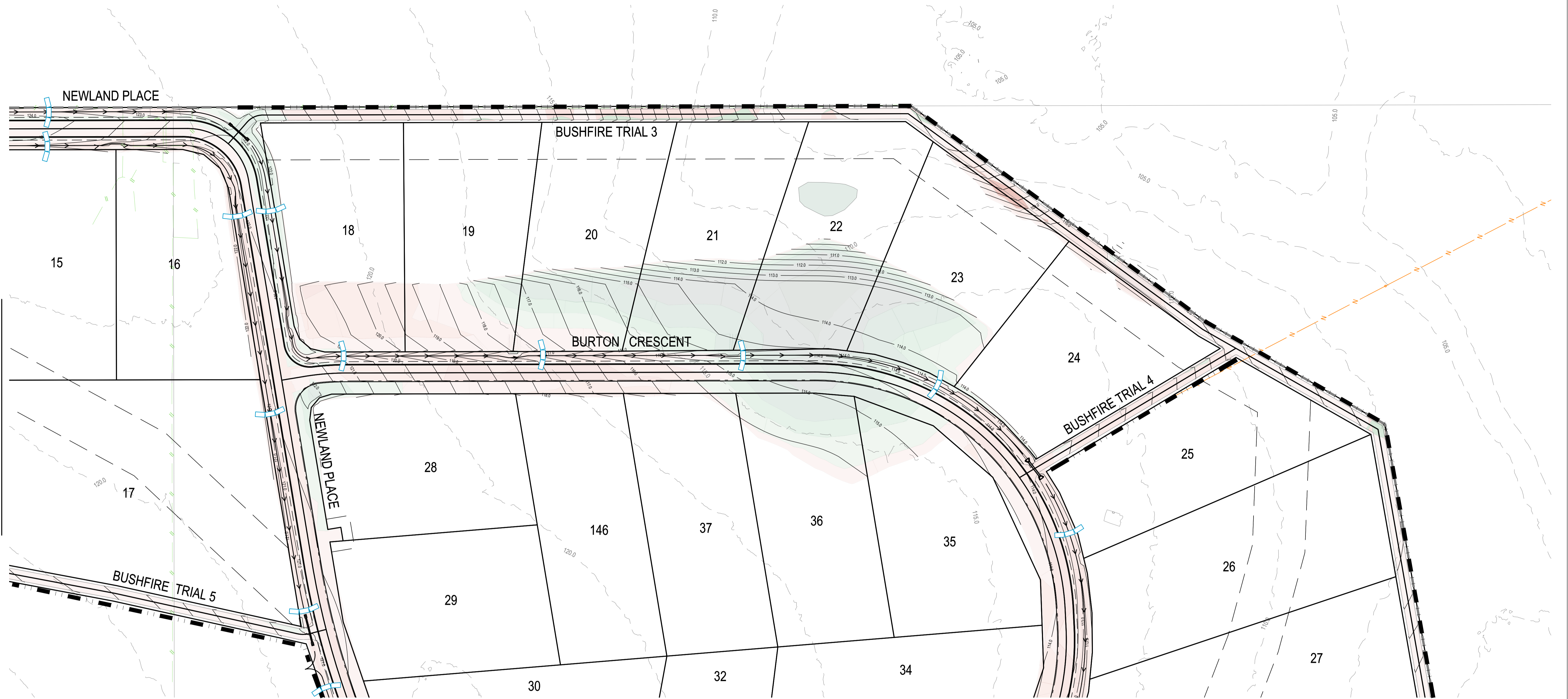
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PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4100	SHEET SIZE A1
		REVISION 3

OR CONTINUATION REFER DWG No. C4102



FOR CONTINUATION REFER DWG No. C4100

LAND CLEARING AND VEGETATION MANAGEMENT:

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- CLEARING TO BE UNDERTAKEN NO MORE THAN 8 WEEKS AHEAD OF EARTHWORKS IN ACCORDANCE WITH TABLE 4.4.7 OF IECA GUIDELINE.
- DISTURBED SOILS SURFACES TO BE STABILISED WITH 70% COVER WITHIN 30 DAYS (TABLE 4.4.7 OF IECA MANUAL).
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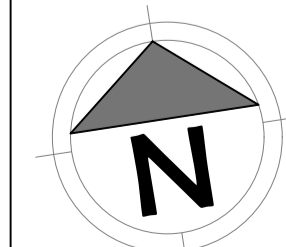
SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND		CUT FILL	
	SEDIMENT FENCING		0.00m - 0.25m
	CONSTRUCTION ENTRY / EXIT		0.25m - 0.50m
	SANDBAG CHECK DAM		0.50m - 1.000m
	STAGE BOUNDARY		1.00m - 2.00m
			> 2.00m

REVISIONS:		MP	02/08/24
No.	REVISION DESCRIPTION	DRAWN	DATE
0	ISSUED FOR CONSTRUCTION		



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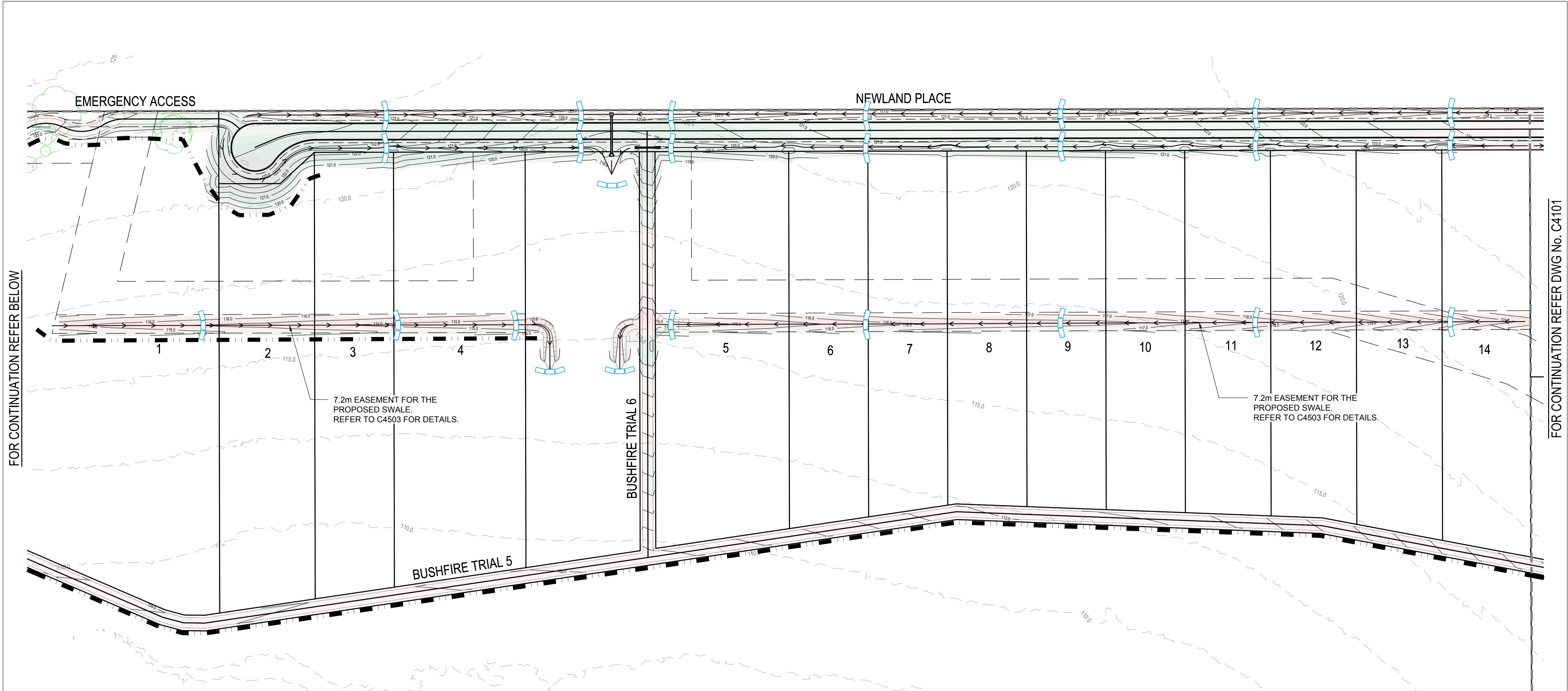
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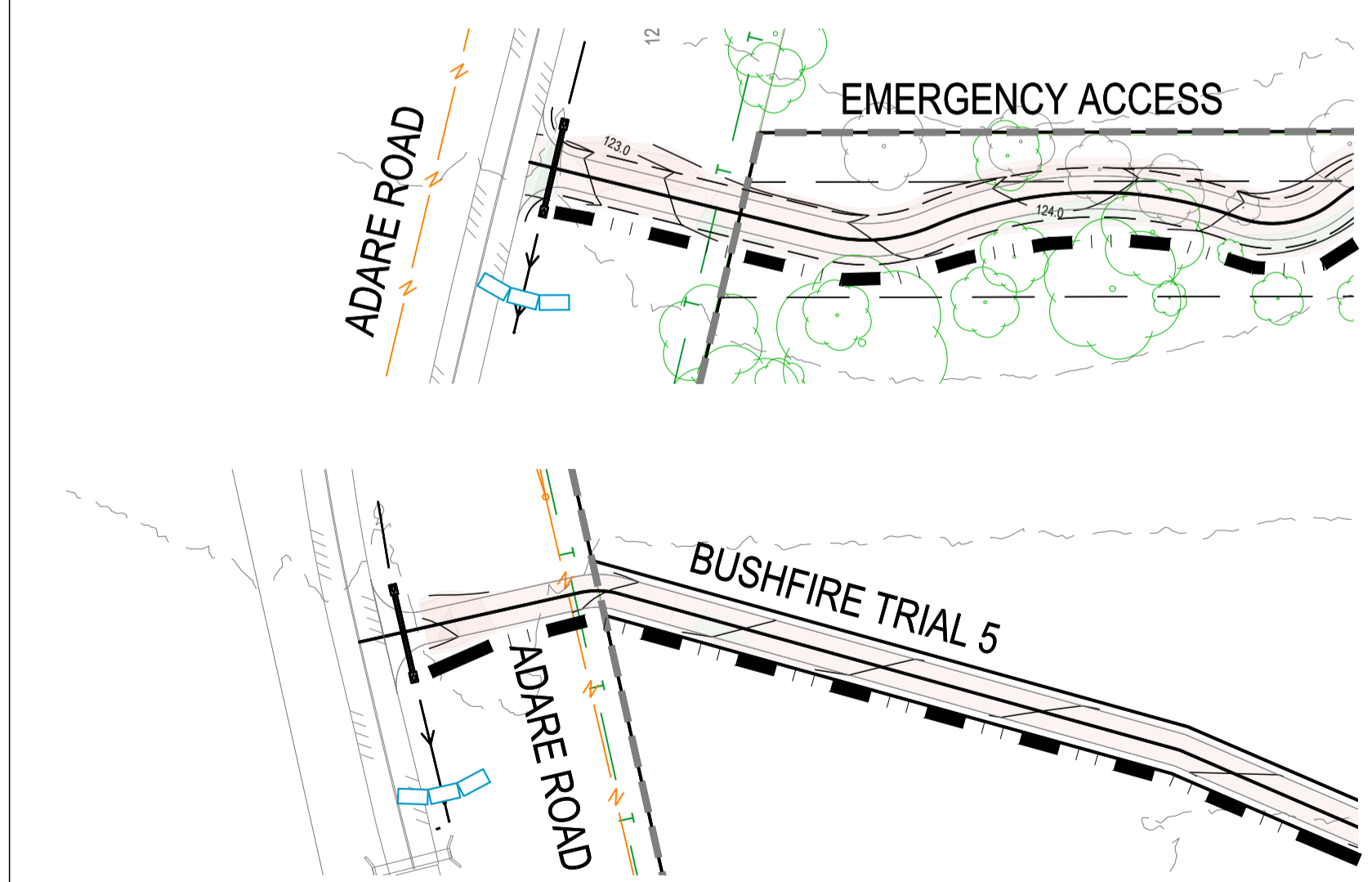
PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
EROSION AND SEDIMENT CONTROL PLAN - SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4101	0	



FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4101



FOR CONTINUATION REFER ABOVE

LEGEND

	SEDIMENT FENCING
	CONSTRUCTION ENTRY / EXIT
	SANDBAG CHECK DAM
	STAGE BOUNDARY

CUT FILL

		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.000m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS		
DRAINAGE (unknown dia.)		
DRAINAGE (known dia.)		
ELECTRICITY		
O/H ELECTRICITY & POLE		
GAS		
WATER MAIN		

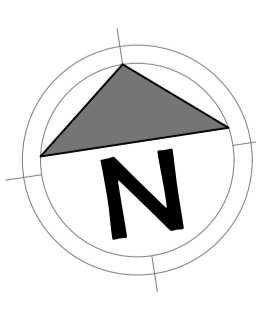
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No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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SCALE

0 7.5 15 22.5 30 37.5m 75m

SCALE 1:750

PROJECT TITLE

PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE

EROSION AND SEDIMENT CONTROL PLAN - SHEET 3

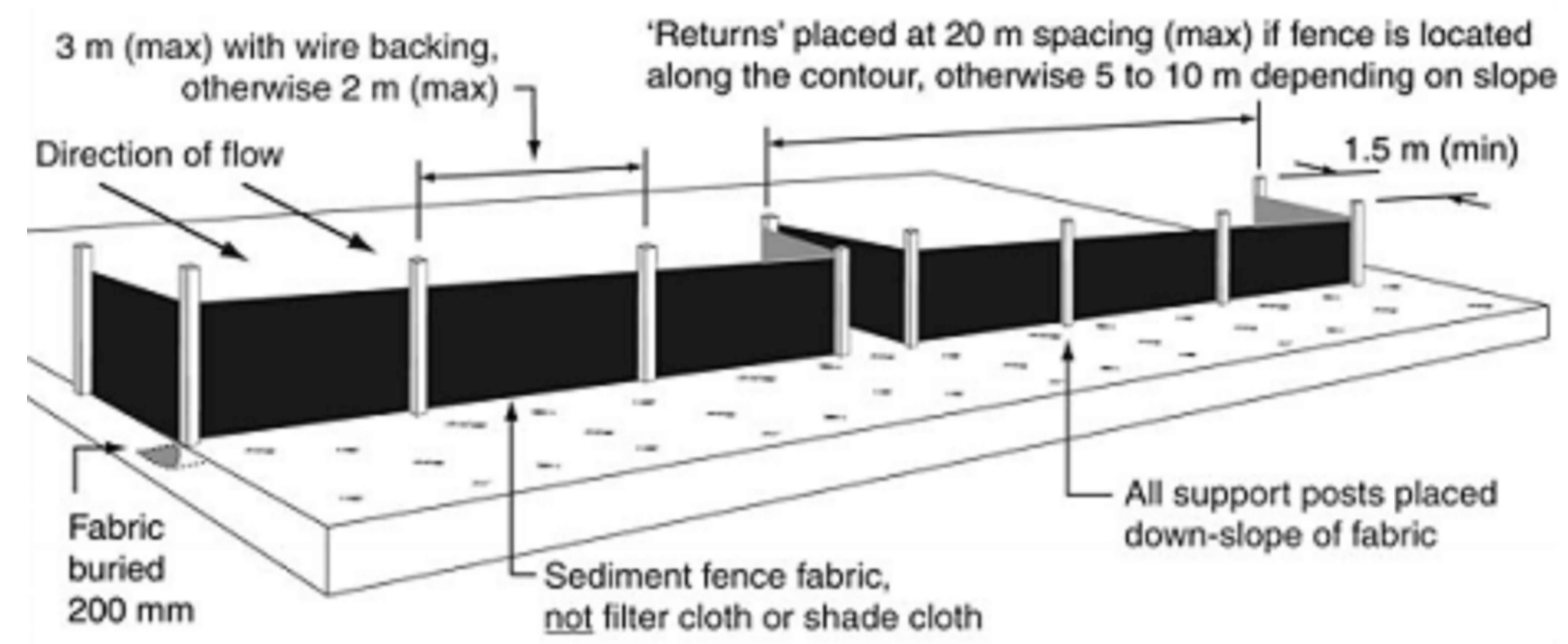
DRAWING STATUS

ORIGINAL ISSUE
FOR CONSTRUCTION

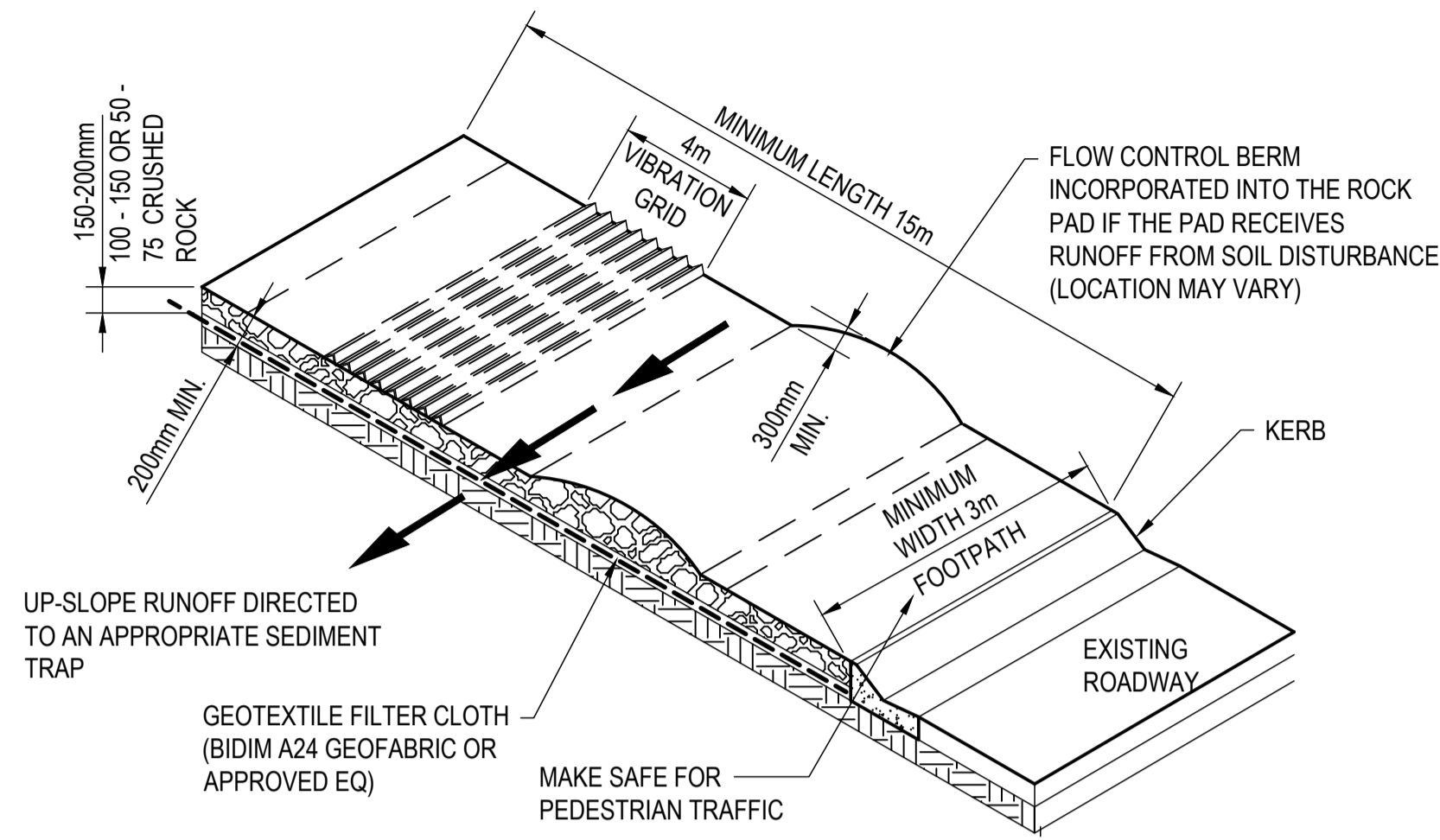
PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1

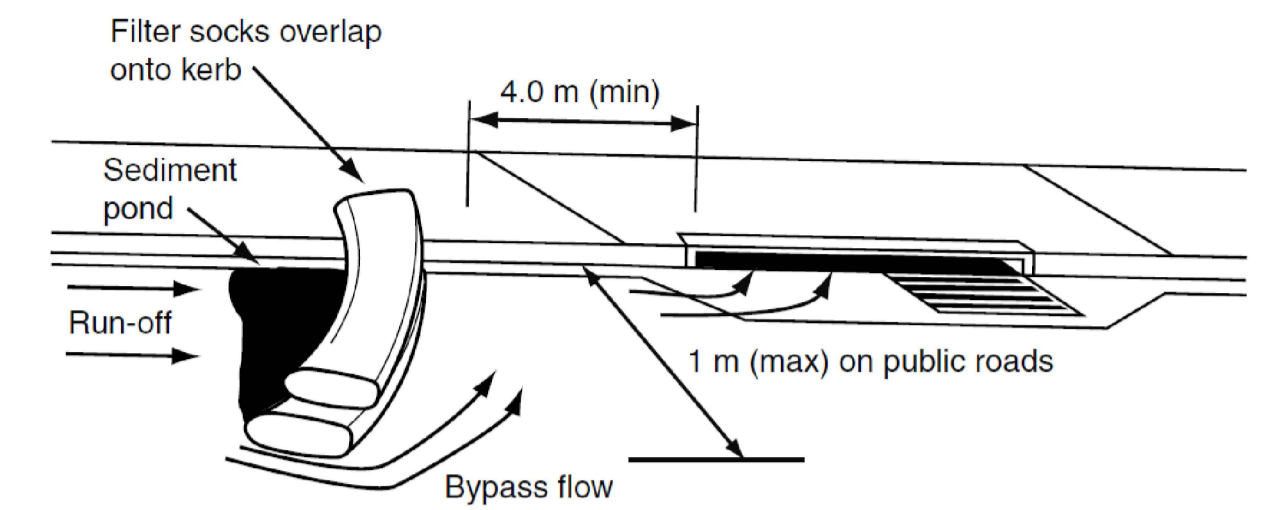
JOB No.	DRAWING No.	REVISION
BR242001	C4102	0



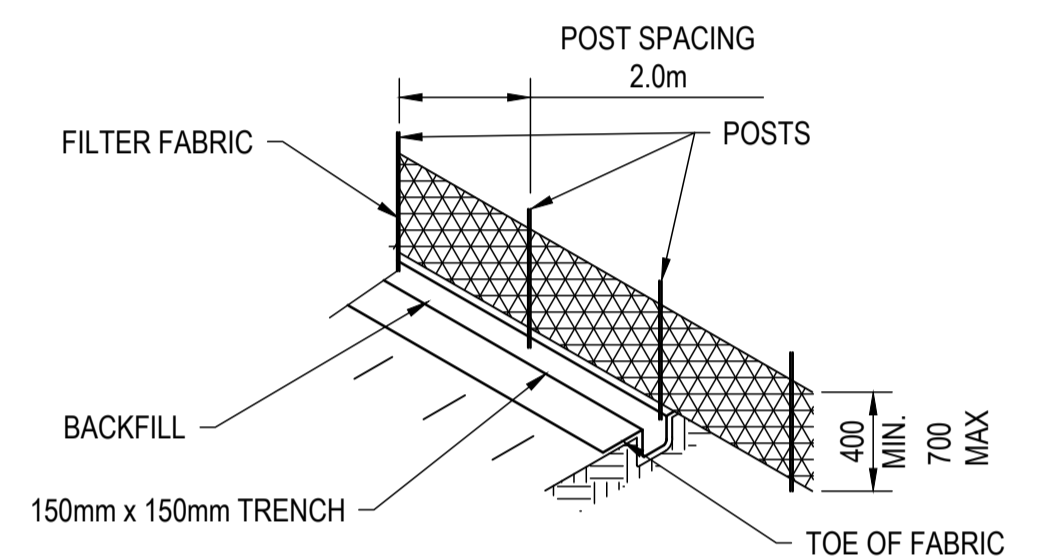
TYPICAL INSTALLATION OF A SEDIMENT FENCE
NOT TO SCALE



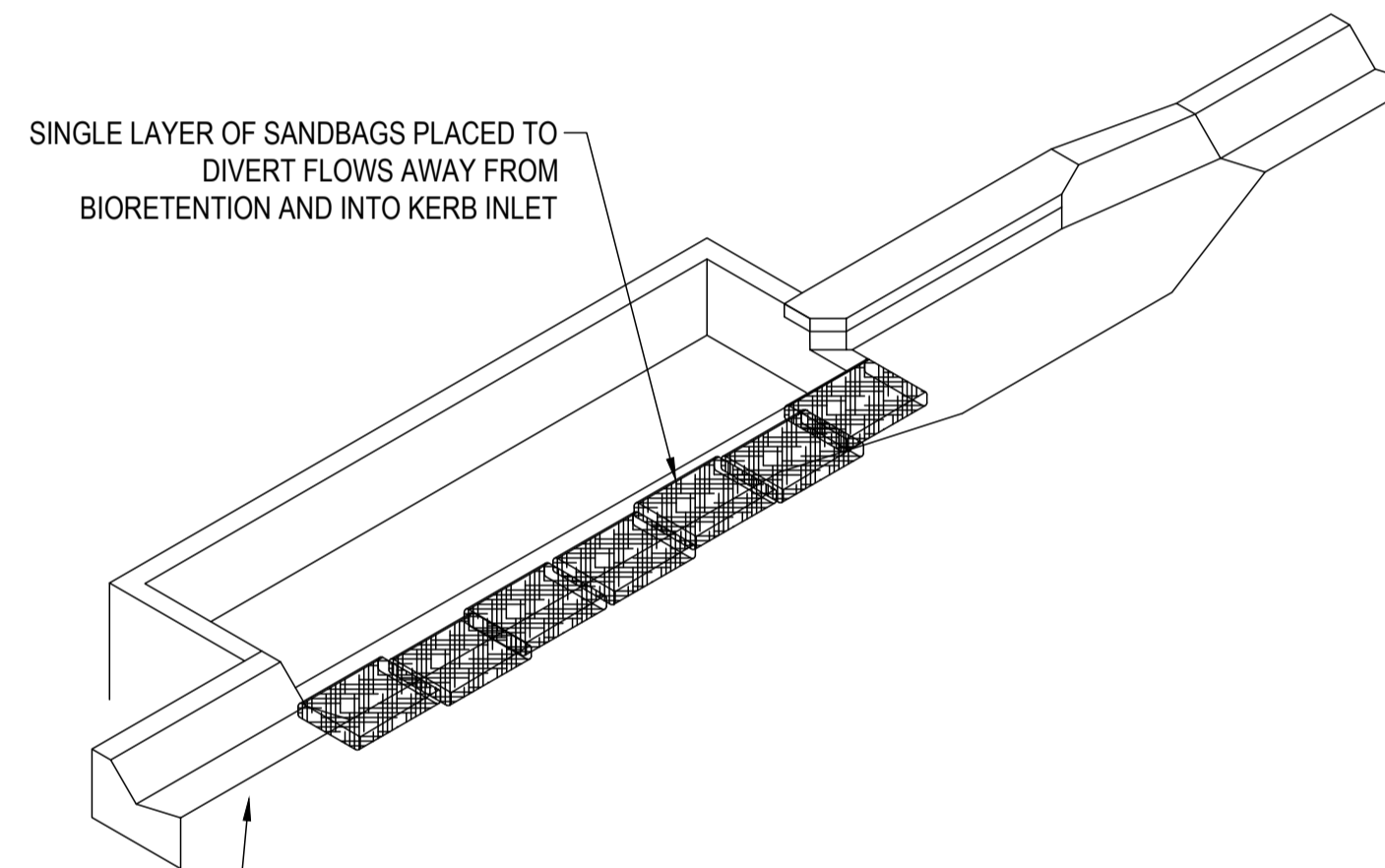
CONSTRUCTION ENTRY/EXIT POINT DETAIL
NOT TO SCALE



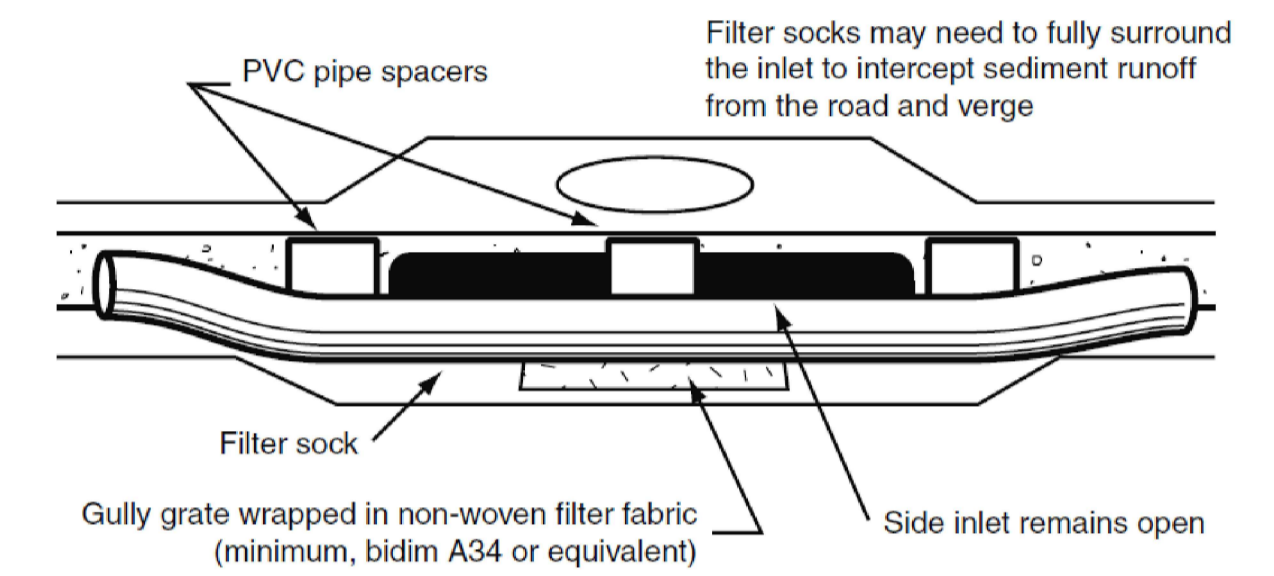
ON-GRADE KERB INLET SEDIMENT TRAP
NOT TO SCALE



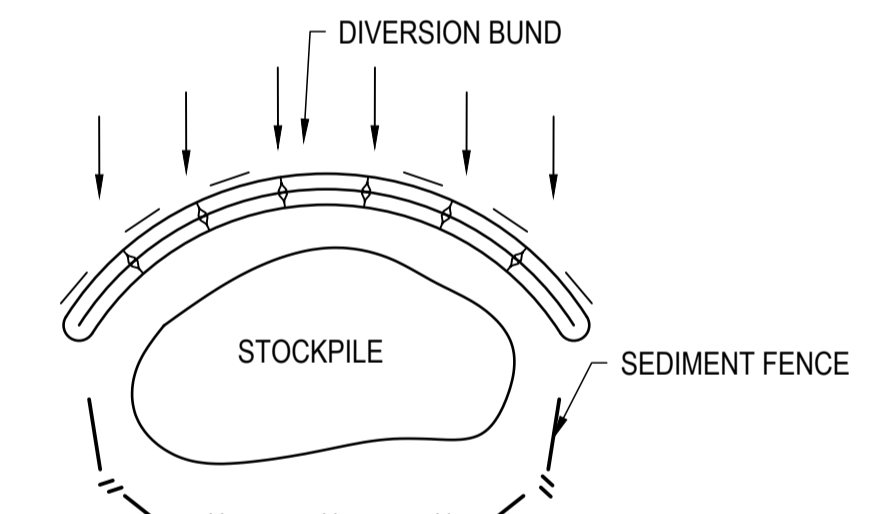
SEDIMENT FENCE
NOT TO SCALE



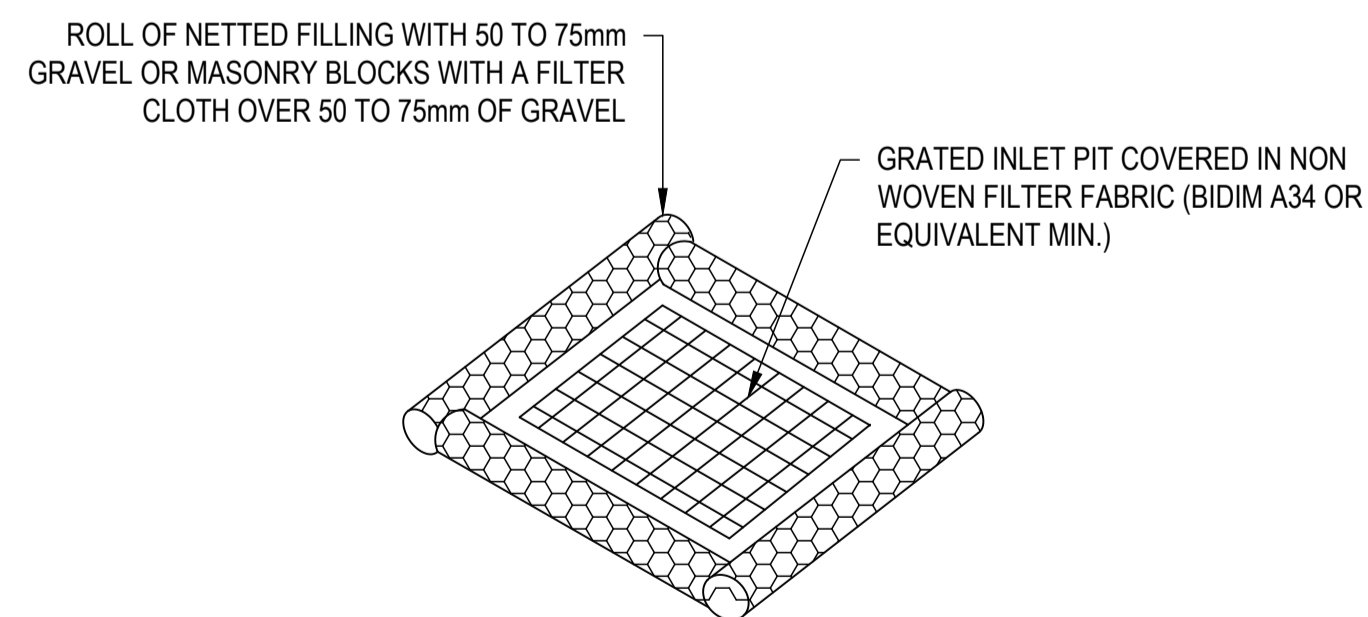
BIORETENTION INLET DIVERSION
NOT TO SCALE
INSTALL KERB INLET PROTECTION UPSTREAM OF BIORETENTION POD AS PER ADJACENT DETAIL



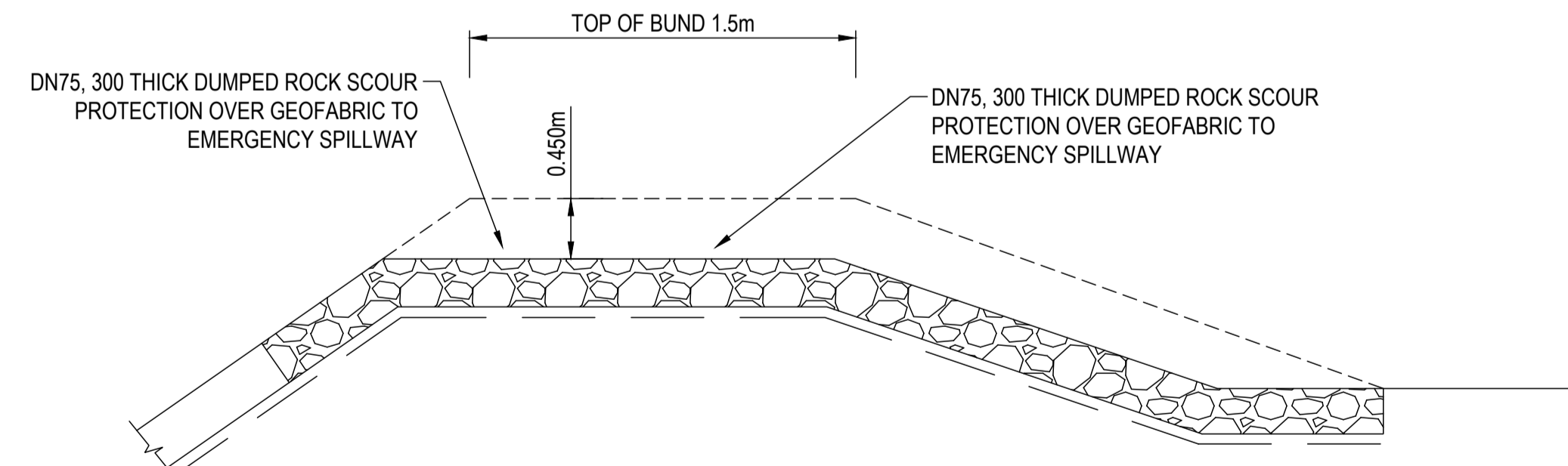
SAG INLET SEDIMENT TRAP
NOT TO SCALE



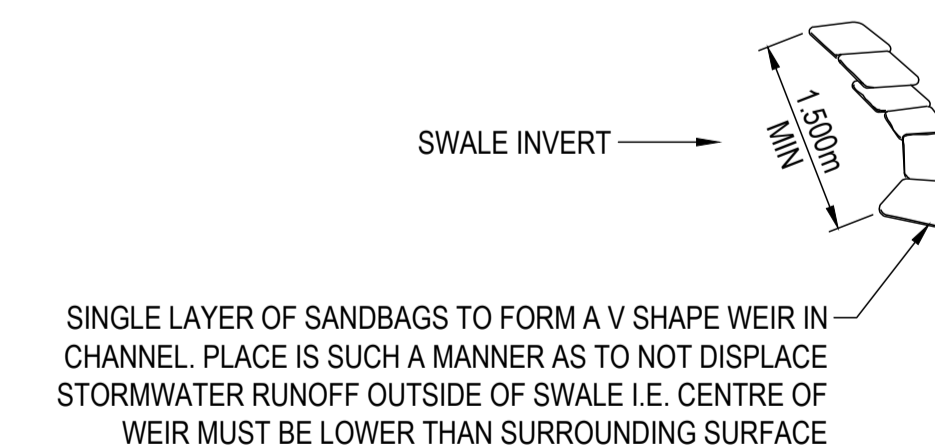
STOCKPILE SEDIMENT CONTROL
NOT TO SCALE



FIELD INLET SEDIMENT TRAP
NOT TO SCALE



SEDIMENT BASIN EMERGENCY SPILLWAY DETAIL
NOT TO SCALE



TYPICAL SAND BAG CHECK DAM
NOT TO SCALE

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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CLIENT
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PO BOX 4107 SPRINGFIELD QLD 4300
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
EROSION AND SEDIMENT CONTROL DETAILS

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4190	0	

SEDIMENT FENCE

MATERIALS

- FABRIC: POLYPROPYLENE, POLYAMIDE, NYLON, POLYESTER OR POLYETHYLENE WOVEN OR NON-WOVEN FABRIC, AT LEAST 700mm IN WIDTH AND A MINIMUM UNIT WEIGHT OF 140GSM.
- SUPPORT POSTS/STAKES AND STEEL STAR PICKETS SUITABLE FOR ATTACHING FABRIC.

INSTALLATION

- WHERE POSSIBLE INSTALL SEDIMENT FENCE AT LEAST 2m FROM THE TOE OF ANY FILLING OPERATIONS THAT MAY RESULT IN SHIFTING SOIL/FILL DAMAGING THE FENCE.
- ENSURE THE EXTREME ENDS OF THE FENCE ARE TURNED UP THE SLOPE AT LEAST 1.5m OR AS NECESSARY TO MINIMISE WATER BYPASSING AROUND THE FENCE.
- ENSURE THE SEDIMENT FENCE IS INSTALLED IN A MANNER THAT AVOIDS THE CONCENTRATION OF FLOW ALONG THE FENCE AND THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE FENCE.
- IF THE SEDIMENT FENCE IS TO BE INSTALLED ALONG THE EDGE OF THE EXISTING TREES, ENSURE CARE IS TAKEN TO PROTECT THE TREES AND THEIR ROOT SYSTEMS DURING INSTALLATION OF THE FENCE.
- UNLESS DIRECTED BY THE SITE SUPERVISOR OR THE APPROVED PLANS, EXCAVATE A 200mm WIDE BY 200mm DEEP TRENCH ALONG THE PROPOSED FENCE LINE, PLACING THE EXCAVATED MATERIAL ON THE UP-SLOPE SIDE OF THE TRENCH.
- ALONG THE LOWER SIDE OF THE TRENCH, APPROPRIATELY SECURE THE STAKES INTO THE GROUND SPACED NO GREATER THAN 3m IF SUPPORTED BY A TOP SUPPORT WIRE OR WEIR MESH BACKING, OTHERWISE NO GREATER THAN 2m.
- WHEREVER POSSIBLE, CONSTRUCT THE SEDIMENT FENCE FROM A CONTINUOUS ROLL OF FABRIC. TO JOIN FABRIC ATTACH EACH END OF TWO OVERLAPPING STAKES WITH THE FABRIC FOLDING AROUND THE ASSOCIATED STAKE ONE TURN AND WITH TWO STAKES TIED TOGETHER WITH THE WIRE METHOD OR OVERLAP THE FABRIC TO THE NEXT ADJACENT SUPPORT POST.
- SECURELY ATTACH THE FABRIC TO THE SUPPORT POSTS USING 25 X 12.5mm STAPLES, OR TIE WIRE AT MAXIMUM 150mm SPACING.
- SECURELY ATTACH THE FABRIC TO THE SUPPORT WIRE/MESH (IF ANY) AT A MAXIMUM SPACING OF 1m.
- ENSURE THE COMPLETED SEDIMENT FENCE IS AT LEAST 450mm, BUT NOT MORE THAN 700mm HIGH. IF A SPILL THROUGH WEIR IS INSTALLED, ENSURE THE CREST OF THE WEIR IS AT LEAST 300mm ABOVE GROUND LEVEL.
- BACKFILL THE TRENCH AND TAMP THE FILL TO FIRMLY ANCHOR THE BOTTOM OF THE FABRIC AND MESH TO PREVENT WATER FROM FLOWING UNDER THE FENCE.
- IF IT IS NOT POSSIBLE TO ANCHOR THE FABRIC IN AN EXCAVATED TRENCH, THEN USE A CONTINUOUS LAYER OF SAND OR AGGREGATE TO HOLD THE FABRIC FIRMLY ON THE GROUND.

MAINTENANCE

- INSPECT THE SEDIMENT FENCE AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.
- REPAIR ANY TORN SECTIONS WITH A CONTINUOUS PIECE OF FABRIC FROM POST TO POST.
- WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.
- IF THE FENCE IS SAGGING BETWEEN STAKES, INSTALL ADDITIONAL SUPPORT POSTS.
- REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 1/3 THE HEIGHT OF THE FENCE.
- DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

SEDIMENT BASINS

GENERAL

- SEDIMENT BASIN TO BE LOCATED ABOVE THE 5YR FLOOD LINE. INSTALL SEDIMENT BASINS FOR ALL CATCHMENTS ACROSS THE PROJECT AREA.
- MATERIALS USED IN THE CONSTRUCTION OF SEDIMENT BASINS SHOULD NOT HAVE AN EMERSON NUMBER OF 3 OR ABOVE (I.E. DISPERSIVE SOILS SUCH AS THE SUBSOILS THAT CAN BE ENCOUNTERED AT THE SITE CANNOT BE USED TO CONSTRUCT SEDIMENT BASINS).
- A " FULL OF SEDIMENT" MARKER MUST BE PLACED IN THE SEDIMENT BASIN TO SHOW THE DESIGN DEPTH OF THE SOIL/STORAGE ZONE VOLUME AND TO INDICATE WHEN REMOVAL OF THE SEDIMENT IS TO BE CARRIED OUT.
- CONSTRUCTED SEDIMENT BASINS TO BE FULLY OPERATIONAL THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL THE BASINS CATCHMENT AREA ACHIEVES 70% GROUND COVER ON ALL SOIL SURFACES.
- FLOCCULATION REQUIREMENTS TO BE IN ACCORDANCE WITH TABLE B17 OF THE IECA GUIDELINES. IN GENERAL 32kg OF GYPSUM TO BE ADDED TO 100m³ OF STORED WATER.

MAINTENANCE

- INSPECT THE SEDIMENT BASIN DURING THE FOLLOWING PERIODS AS STATED WITHIN PAGE B.52 OF THE IECA GUIDELINES:
 - DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY, FALLING TREES OR CONSTRUCTION ACTIVITY HAS DAMAGED ANY COMPONENT OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, REPAIR IT.
 - AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS. IF DAMAGE HAS OCCURRED, MAKE THE NECESSARY REPAIRS.
 - AT LEAST WEEKLY DURING THE NOMINATED WET SEASON (IF ANY) OTHERWISE AT LEAST FORTNIGHTLY.
 - PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE "SHUTDOWN".
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA OR, IF APPROPRIATE, MIX WITH DRY SOIL ON THE SITE.
- DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
- CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
- CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT; MAKE ALL NECESSARY REPAIRS.
- REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
- SUBMERGED INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH INFLOW EVENT.

REMOVAL OR CONVERSION OF SEDIMENT BASIN

- WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED OR OTHERWISE INCORPORATED INTO THE PERMANENT STORMWATER DRAINAGE SYSTEM. IN EITHER CASE, SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED.
- BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN OR SPILLWAY, INSTALL ALL NECESSARY SHORT-TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
- ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN PRIOR TO THE DAM'S REMOVAL. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- BRING THE DISTURBED AREA TO A PROPER GRADE, THEN SMOOTH, COMPACT AND STABILISE OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

MATERIAL STOCKPILING:

- THE CONSTRUCTION CONTRACTOR IS TO ADHERE TO THE FOLLOWING SOIL AND STOCKPILE MANAGEMENT PRACTISES. STOCKPILES OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED MUST BE:
 - APPROPRIATELY PROTECTED FROM WIND, RAIN, CONCENTRATED SURFACE FLOW AND EXCESSIVE UP-SLOPE STORMWATER SURFACE FLOWS.
 - LOCATED AT LEAST 2m FROM ANY HAZARDOUS AREA, RETAINED VEGETATION, OR CONCENTRATED DRAINAGE LINE.
 - LOCATED UP-SLOPE OF AN APPROPRIATE SEDIMENT CONTROL SYSTEM.
- PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 28 DAYS.
- PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 10 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
- PROVIDED WITH AN APPROPRIATE PROTECTIVE COVER (SYNTHETIC, MULCH OR VEGETATIVE) IF THE MATERIALS ARE LIKELY TO BE STOCKPILED FOR MORE THAN 5 DAYS DURING THOSE MONTHS THAT HAVE A HIGH EROSION RISK.
- A SUITABLE FLOW DIVERSION SYSTEM MUST BE ESTABLISHED IMMEDIATELY UP-SLOPE OF A STOCKPILE OF ERODIBLE MATERIAL THAT HAS THE POTENTIAL TO CAUSE ENVIRONMENTAL HARM IF DISPLACED, IF THE UP-SLOPE CATCHMENT AREA DRAINING TO THE STOCKPILE EXCEEDS 1500m².

STABILISED ENTRY/EXIT NOTES

MATERIALS

- ROCK: WELL GRADED, HARD, ANGULAR, EROSION RESISTANT ROCK, NOMINAL DIAMETER OF 50mm TO 75mm (SMALL DISTURBANCES) OR 100 TO 150mm (LARGE DISTURBANCES). ALL REASONABLE MEASURES MUST BE TAKEN TO OBTAIN ROCK OF NEAR UNIFORM SIZE.
- FOOTPATH STABILISING AGGREGATE: 25 TO 50mm GRAVEL OR AGGREGATE.
- GEOTEXTILE FABRIC: HEAVY-DUTY, NEEDLE-PUNCHED, NON-WOVEN FILTER CLOTH ('BIDIM' A24 OR EQUIVALENT).

INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND DIMENSIONAL DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- CLEAR THE LOCATION OF THE VIBRATION GRID, REMOVING STUMPS, ROOTS AND OTHER VEGETATION TO PROVIDE A FIRM FOUNDATION SO THAT THE ROCK IS NOT PRESSED INTO SOFT GROUND. CLEAR SUFFICIENT WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY THAT NECESSARY FOR THE EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE
- IF THE EXPOSED SOIL IS SOFT, PLASTIC OR CLAYEY, PLACE A SUB-BASE OF CRUSHED ROCK OR A LAYER OF HEAVY-DUTY FILTER CLOTH TO PROVIDE A FIRM FOUNDATION.
- ENSURE THAT THE INSTALLATION OF THE VIBRATION GRID INCLUDES ADEQUATE SEDIMENT STORAGE VOLUME UNDER THE GRID. WHERE NECESSARY, INSTALL SUITABLE PRECAST SEDIMENT COLLECTION CHAMBERS.
- PLACE A ROCK PAD/RAMP FORMING A MINIMUM 200mm THICK LAYER OF CLEAN, OPEN-VOID ROCK OVER THE ROADWAY BETWEEN THE VIBRATION GRID AND THE SEALED STREET TO PREVENT TYRES FROM PICKING UP MORE SOIL AFTER THEY HAVE BEEN CLEANED.
- IF THE ASSOCIATED CONSTRUCTION SITE IS UP-SLOPE OF THE ROCK PAD, THUS CAUSING STORMWATER RUNOFF TO FLOW TOWARDS THE ROCK PAD, THEN FORM A MINIMUM 300mm HIGH FLOW CONTROL BERM ACROSS THE ROCK PAD TO DIVERT SUCH RUNOFF TO A SUITABLE SEDIMENT TRAP
- THE TOTAL LENGTH OF THE VIBRATION GRIP AND ROCK RAMPS SHOULD BE AT LEAST 15m WHERE PRACTICABLE, AND AS WIDE AS THE FULL WIDTH OF THE ENTRY OR EXIT AND AT LEAST 3m. THE ROCK RAMP SHOULD COMMENCE AT THE EDGE OF THE OFF-SITE SEALED ROAD OR PAVEMENT.
- FLARE THE END OF THE ROCK PAD WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES DO NOT TRAVEL OVER UNPROTECTED SOIL.

MAINTENANCE

- INSPECT VIBRATION GRID PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF-PRODUCING RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS.
- IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MATERIAL MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
- IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY.
- WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ROCK RAMPS ARE REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.
- ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.
- DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

CHECK DAM SEDIMENT TRAPS

INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- PRIOR TO PLACEMENT OF THE SEDIMENT TRAP, ENSURE THE DRAINAGE CHANNEL IS DEEP ENOUGH TO PREVENT WATER BEING UNSAFELY DIVERTED OUT OF THE DRAIN ONCE THE CHECK DAMS ARE INSTALLED.
- LOCATE EACH CHECK DAM SEDIMENT TRAP AS DIRECTED WITHIN THE APPROVED PLANS, OR OTHERWISE AT SUCH A SPACING TO ACHIEVE THE REQUIRED SEDIMENT TRAPPING OUTCOMES.
- IF THE CHECK DAMS ARE ALSO BEING USED TO CONTROL EROSION WITHIN THE DRAINAGE CHANNEL, THEN LOCATE EACH SUCCESSIVE CHECK DAM SUCH THAT THE CREST OF THE IMMEDIATE DOWNSTREAM DAM IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM CHECK DAM.
- ENSURE SAND BAGS EXTEND UP THE CHANNEL BANKS (WHERE PRACTICAL) TO A LEVEL AT LEAST 100mm ABOVE THE CREST LEVEL OF THE CHECK DAM.

MAINTENANCE

- INSPECT EACH CHECK DAM AND THE DRAINAGE CHANNEL AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING RAINFALL.
- CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN ANY OF THE CHECK DAMS, THEN CHECK THE SPACING OF THE DAMS AND WHERE NECESSARY INSTALL INTERMEDIATE CHECK DAMS OR A SUITABLE CHANNEL LINER.
- CHECK FOR DISPLACEMENT OF THE CHECK DAMS.
- CHECK FOR SOIL SCOUR AROUND THE ENDS OF EACH CHECK DAM. IF SUCH EROSION IS OCCURRING, CONSIDER EXTENDING THE WIDTH OF THE CHECK DAM TO AVOID SUCH PROBLEMS.
- IF SEVERE SOIL EROSION OCCURS EITHER UNDER OR AROUND THE CHECK DAMS, THEN SEEK EXPERT ADVICE ON AN ALTERNATIVE TREATMENT MEASURE.
- DE-SILT SEDIMENT TRAP IF THE SEDIMENT LEVEL EXCEEDS 1/3 THE CREST HEIGHT.
- DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

KERB INLET SEDIMENT TRAPS

FROM IECA (INTERNATIONAL EROSION SEDIMENT ASSOCIATION) AUSTRALASIA STANDARD DRAWING ESC-03 (DEC 09).

MATERIALS

- SOCKS: MINIMUM 200mm DIAMETER SYNTHETIC OR BIODEGRADABLE TUBES MANUFACTURED FROM NON-WOVEN OR COMPOSITE FABRIC SUITABLE FOR THE 'FILTRATION' OF COARSE SEDIMENTS.
- FILL MATERIAL: STRAW, CANE MULCH, COMPOSITE MATERIAL (AS4454), COARSE SAND, OR CLEAN AGGREGATE.
- STAKES: MINIMUM 25 x 25mm TIMBER.

INSTALLATION

- REFER TO APPROVED PLANS FOR LOCATION AND INSTALLATION DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.
- ENSURE THE SOCKS ARE PLACED INDIVIDUALLY OR COLLECTIVELY (AS A SINGLE SEDIMENT TRAP) SUCH THAT:
 - LEAKAGE AROUND OR UNDER THE SOCKS IS MINIMISED.
 - ADJOINING SOCKS ARE TIGHTLY BUTTED OR OVERLAPPED AT LEAST 450mm.
 - THE SURFACE AREA OF POTENTIAL WATER PONDING UP-SLOPE OF EACH SEDIMENT TRAP IS MAXIMISED.
 - TO THE MAXIMUM DEGREE PRACTICAL, ALL SEDIMENT-LADEN WATER WILL PASS THROUGH THE FORMED POND BEFORE FLOWING OVER THE DOWN-SLOPE END OF THE SEDIMENT TRAP.
- WHEN PLACED ACROSS THE INVERT OF MINOR DRAINS, ENSURE THE SOCKS ARE PLACED SUCH THAT:
 - THE CREST OF THE DOWNSTREAM SOCK IS LEVEL WITH THE CHANNEL INVERT AT THE IMMEDIATE UPSTREAM SOCK (IF ANY);
 - EACH SOCK EXTENDS UP THE CHANNEL BANKS SUCH THAT THE CREST OF THE SOCK AT ITS LOWEST POINT IS LOWER THAN GROUND LEVEL AT EITHER END OF THE SOCK.
- IF STAKES ARE REQUIRED TO ANCHOR THE SOCKS, THEIR SPACING DOES NOT EXCEED 1.2m OR SIX TIMES THE SOCK DIAMETER (WHICHEVER IS THE LESSER). A MAXIMUM STAKE SPACING OF 0.3m APPLIES WHEN USED TO FORM CHECK DAMS.

MAINTENANCE

- INSPECT ALL FILTER SOCKS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF PRODUCING STORMS OR OTHERWISE AT WEEKLY INTERVALS.
 - REPAIR OR REPLACE DAMAGED SOCKS.
 - THE BULK OF THE SEDIMENT COLLECTED BEHIND THE FILTER SOCKS SHOULD BE REMOVED BY SHOVEL AFTER EACH STORM EVENT.
 - REMOVE COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
- REMOVAL
- ALL SAND, SOIL, SEDIMENT OR MUD MUST BE PHYSICALLY REMOVED FROM SEALED SURFACES, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.
 - IF NECESSARY FOR SAFETY REASONS, THE SEALED SURFACE SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE SURFACE.
 - DISPOSE OF COLLECTED SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
 - ALL SYNTHETIC (PLASTIC) MESH OR OTHER NON READILY BIODEGRADABLE MATERIAL MUST BE REMOVED FROM THE SITE ONCE THE SLOPE OR DRAIN IS STABILISED, OR THE SOCKS HAVE DETERIORATED TO A POINT WHERE THEY ARE NO LONGER PROVIDING THEIR INTENDED DRAINAGE OR SEDIMENT CONTROL FUNCTION.

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24

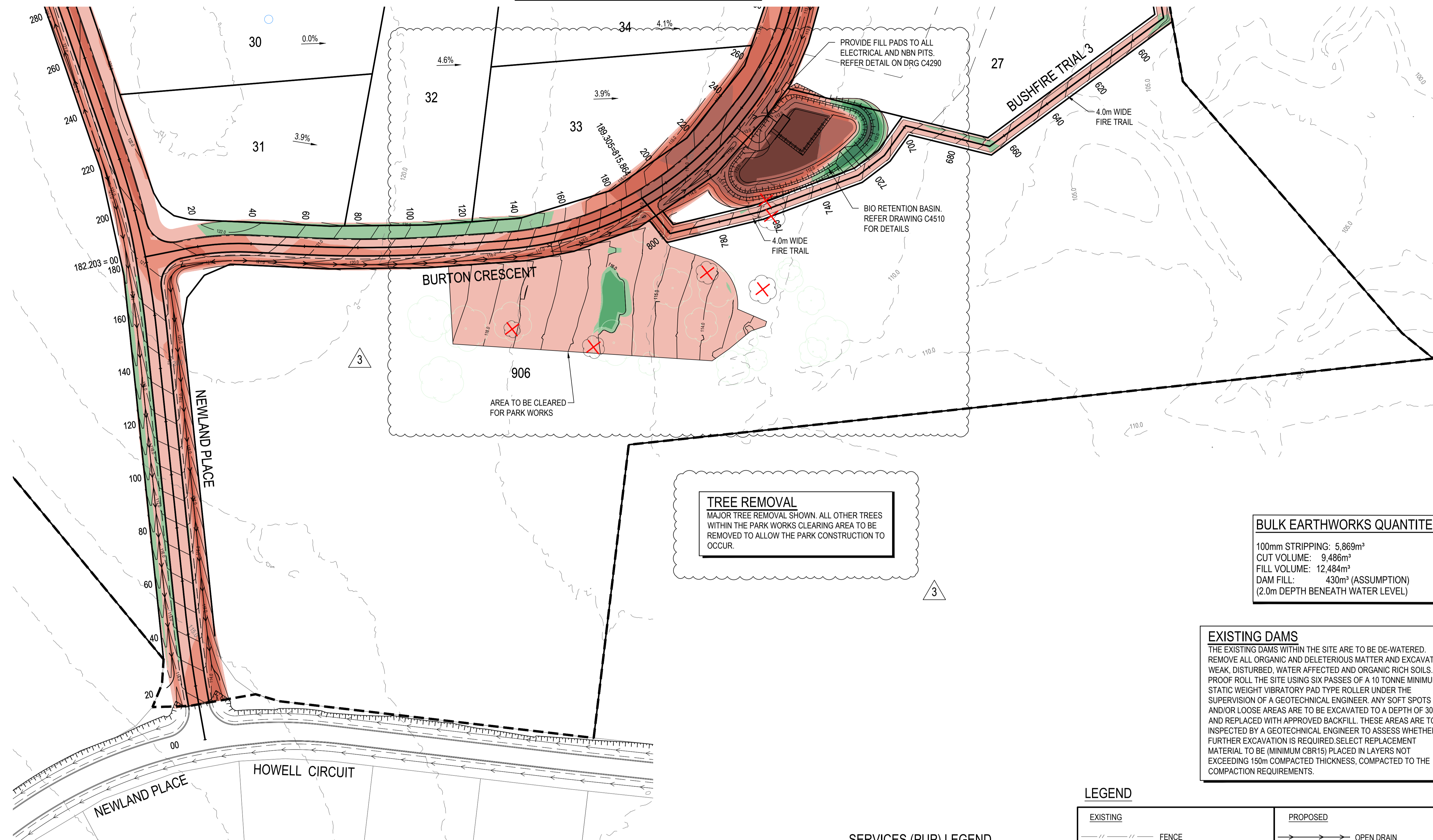


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IF IN DOUBT ASK.

CLIENT	PROJECT TITLE
PARK LAKE ADARE PTY LTD PO BOX 4107 SPRINGFIELD QLD 4300	PROPOSED SUBDIVISION 174 ADARE ROAD, ADARE, QLD 4343 STAGES 4 AND 5
SCALE	DRAWING TITLE
	EROSION AND SEDIMENT CONTROL NOTES

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4191	0	

FOR CONTINUATION REFER DWG No. C4201



TREE REMOVAL
 MAJOR TREE REMOVAL SHOWN. ALL OTHER TREES WITHIN THE PARK WORKS CLEARING AREA TO BE REMOVED TO ALLOW THE PARK CONSTRUCTION TO OCCUR.

BULK EARTHWORKS QUANTITIES

100mm STRIPPING:	5,869m ³
CUT VOLUME:	9,486m ³
FILL VOLUME:	12,484m ³
DAM FILL:	430m ³ (ASSUMPTION)
(2.0m DEPTH BENEATH WATER LEVEL)	

EXISTING DAMS
 THE EXISTING DAMS WITHIN THE SITE ARE TO BE DE-WATERED. REMOVE ALL ORGANIC AND DELETERIOUS MATTER AND EXCAVATE WEAK, DISTURBED, WATER AFFECTED AND ORGANIC RICH SOILS. PROOF ROLL THE SITE USING SIX PASSES OF A 10 TONNE MINIMUM STATIC WEIGHT VIBRATORY PAD TYPE ROLLER UNDER THE SUPERVISION OF A GEOTECHNICAL ENGINEER. ANY SOFT SPOTS AND/OR LOOSE AREAS ARE TO BE EXCAVATED TO A DEPTH OF 300mm AND REPLACED WITH APPROVED BACKFILL. THESE AREAS ARE TO BE INSPECTED BY A GEOTECHNICAL ENGINEER TO ASSESS WHETHER FURTHER EXCAVATION IS REQUIRED. SELECT REPLACEMENT MATERIAL TO BE (MINIMUM CBR15) PLACED IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS, COMPACTED TO THE COMPACTION REQUIREMENTS.

NOTE

- REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00.R.01.REV01 DATED 19TH FEB 2018.
- DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION
 ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
 ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
 (NOTE: TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT FILL

0.00m - 0.25m	0.25m - 0.50m	0.50m - 1.000m	1.00m - 2.00m	> 2.00m
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SERVICES (PUP) LEGEND

	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	Ø
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	▽
GAS	G(*)
WATER MAIN	W(*)

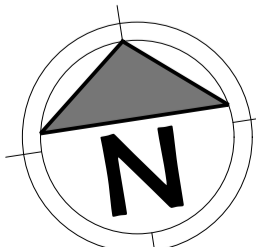
LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- MOUNTABLE KERB TYPE M4	--- MOUNTABLE KERB TYPE M6
--- MOUNTABLE KERB TYPE M6	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
⊗ TREE TO BE REMOVED	--- STAGE BOUNDARY
○ TREE TPZ	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	DRIVEWAY ADDED	MP	17/12/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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 P.04/02/2018 - AKR

CLIENT
PARK LAKE ADARE PTY LTD
 PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 1

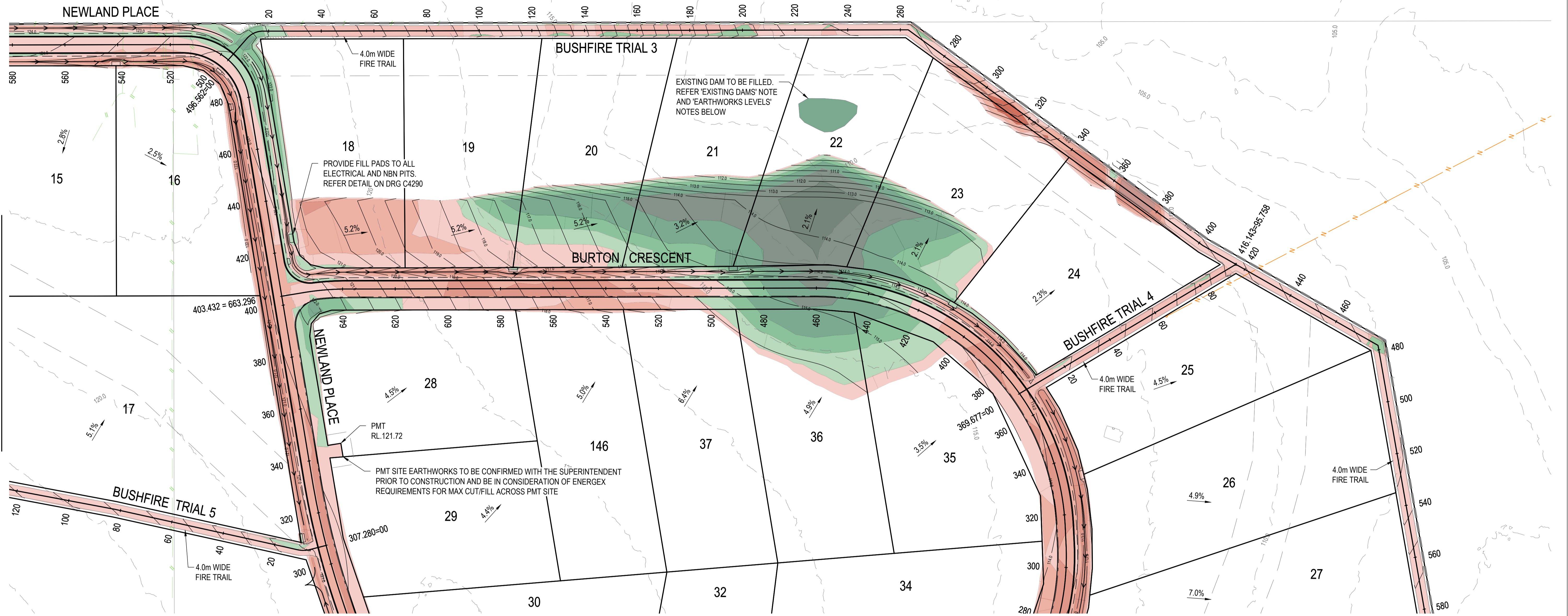
DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1

JOB No.	DRAWING No.	REVISION
BR242001	C4200	3

OR CONTINUATION REFER DWG No. C4202



FOR CONTINUATION REFER DWG No. C4200

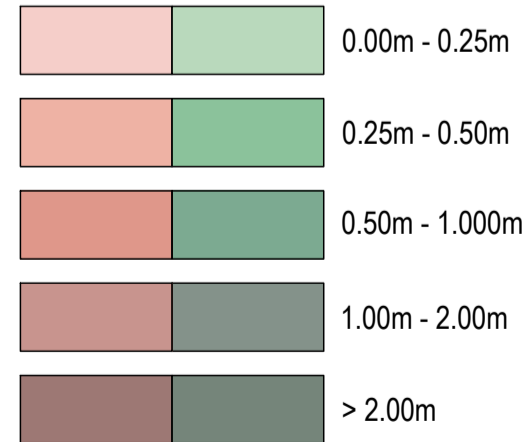
NOTE

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 (NOTE: TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT FILL



SERVICES (PUP) LEGEND

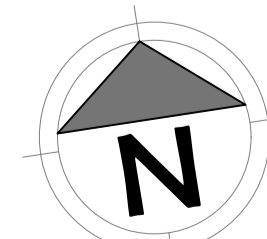
	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	Ø
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	▽
GAS	G(*)
WATER MAIN	W(*)

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- MOUNTABLE KERB TYPE M4	--- MOUNTABLE KERB TYPE M6
--- MOUNTABLE KERB TYPE M6	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- STAGE BOUNDARY
○ TREE TPZ	

REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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 PO BOX 4107 SPRINGFIELD QLD 4300
SCALE
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 SCALE 1:750

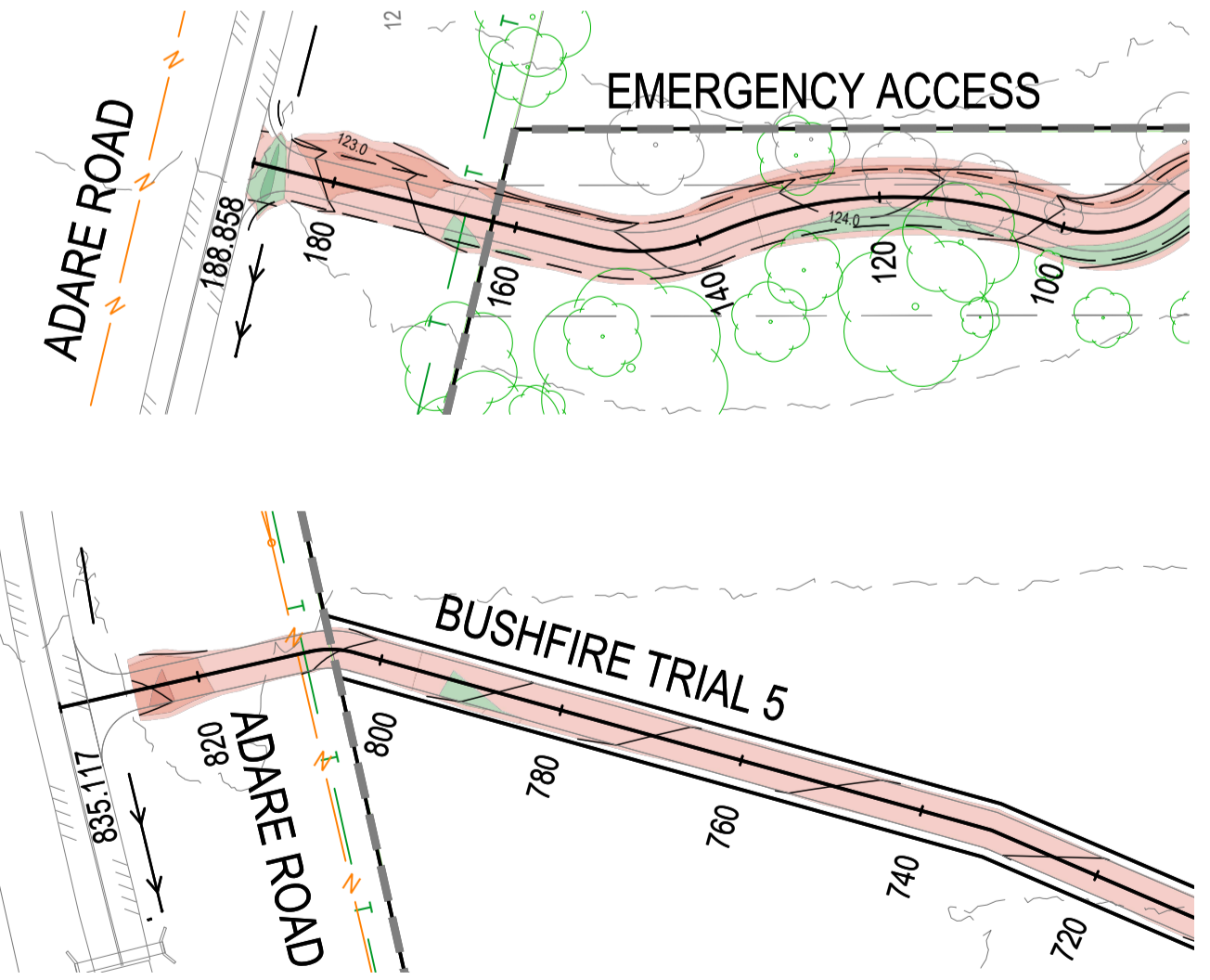
PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4201	0	



FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4201



FOR CONTINUATION REFER ABOVE

NOTE

- REFER TO CIVIL SPECIFICATIONS ON DRAWING C4001 FOR SUBGRADE PREPARATION REQUIREMENTS.
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE DOUGLAS PARTNERS GEOTECHNICAL REPORT: 93323.00 R.01.REV01 DATED 19TH FEB 2018.
- DETAILED BULK EARTHWORKS MODELLING HAS NOT BEEN UNDERTAKEN FOR PIPE TRENCHING

LEVEL 1 COMPACTION
 ALL FILLING ON SITE TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
 ALL FILLING OF EXISTING DAMS WITHIN INDIVIDUAL LOTS TO BE LEVEL 1 COMPACTED FILL AS PER AS3798 UNLESS NOTED OTHERWISE.
 (NOTE TYPE 2 TESTING MAY ONLY BE USED FOR INDIVIDUAL RESIDENTIAL LOTS ONLY)

CUT	FILL	DEPTH
		0.00m - 0.25m
		0.25m - 0.50m
		0.50m - 1.00m
		1.00m - 2.00m
		> 2.00m

SERVICES (PUP) LEGEND

SERVICE	EXISTING
COMMUNICATIONS	C(*)
DRAINAGE (unknown dia.)	D(*)
DRAINAGE (known dia.)	
ELECTRICITY	E(*)
O/H ELECTRICITY & POLE	
GAS	G(*)
WATER MAIN	W(*)

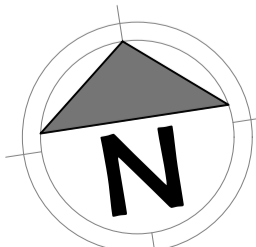
(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- MOUNTABLE KERB TYPE M4	--- MOUNTABLE KERB TYPE M6
--- MOUNTABLE KERB TYPE M6	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- STAGE BOUNDARY
○ TREE TPZ	

REVISIONS:

No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

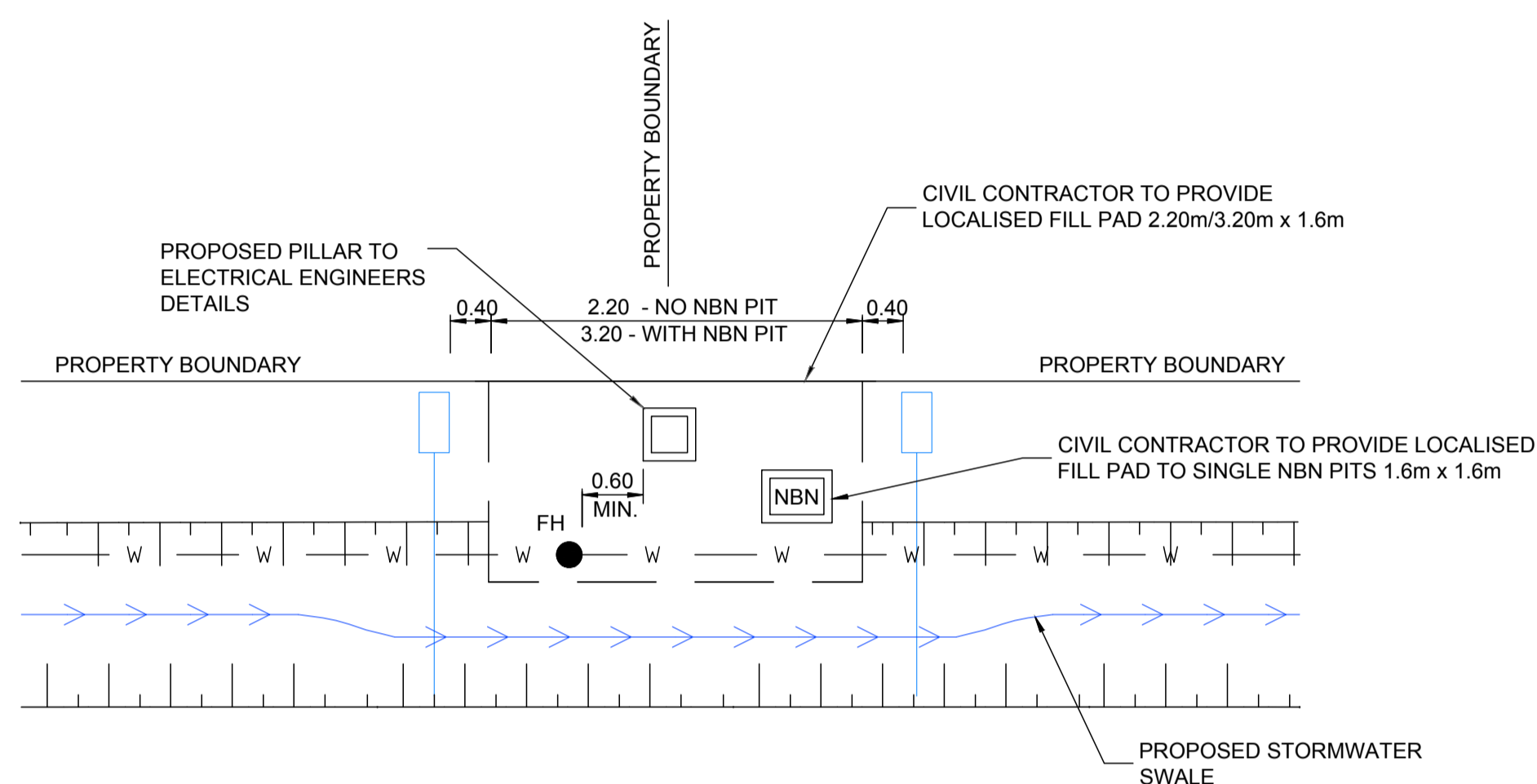
DRAWING TITLE
BULK EARTHWORKS PLAN
SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

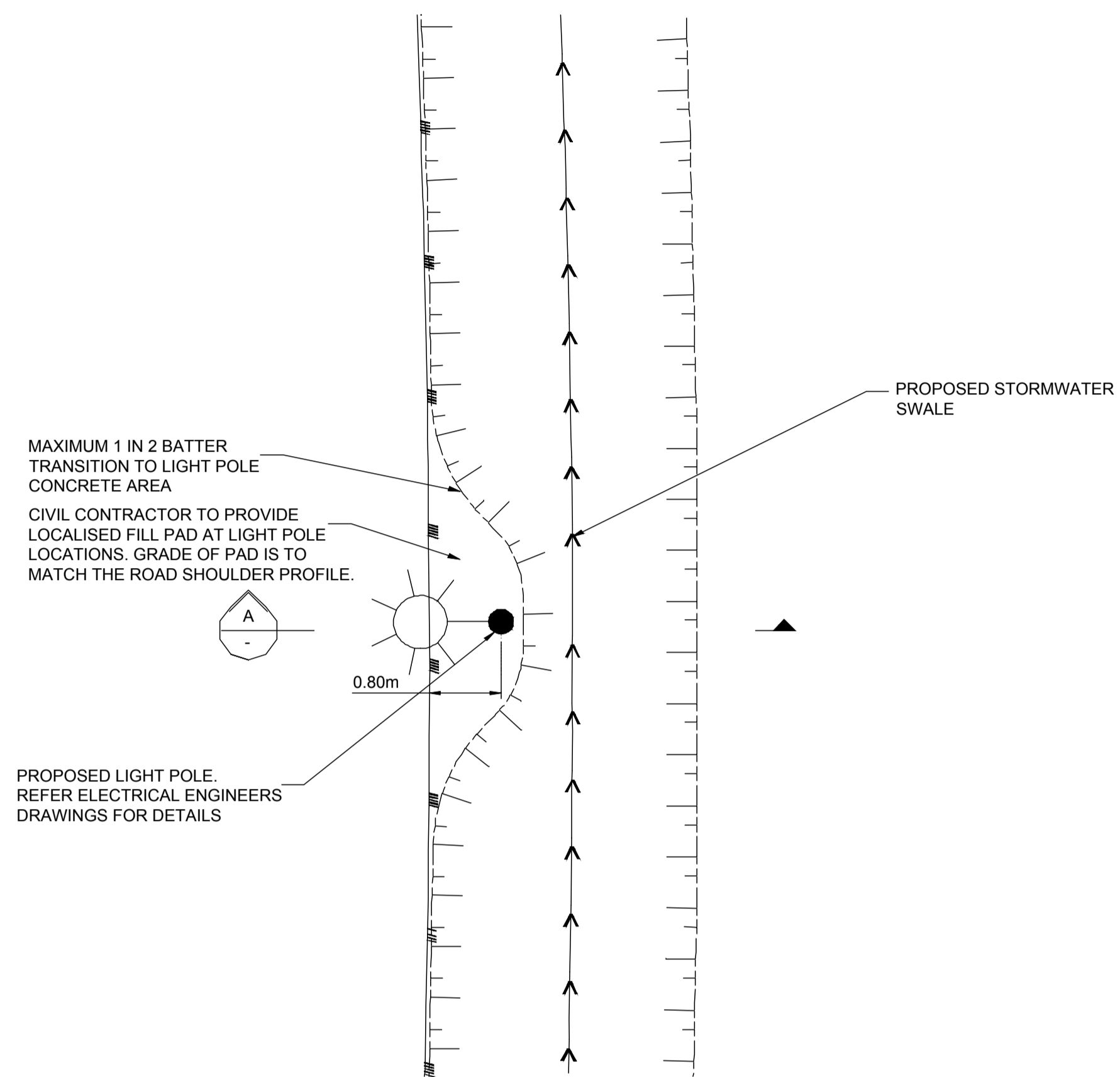
PROJECT LEADER	DESIGNER	SIGNATURE
CK	MP	

DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1

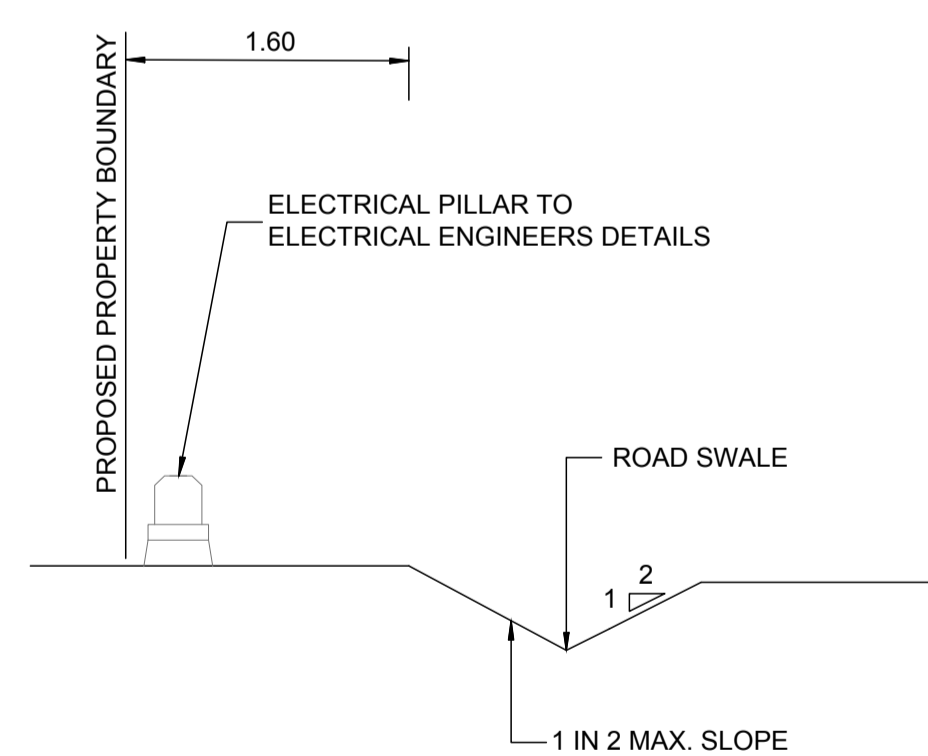
JOB No.	DRAWING No.	REVISION
BR242001	C4202	0



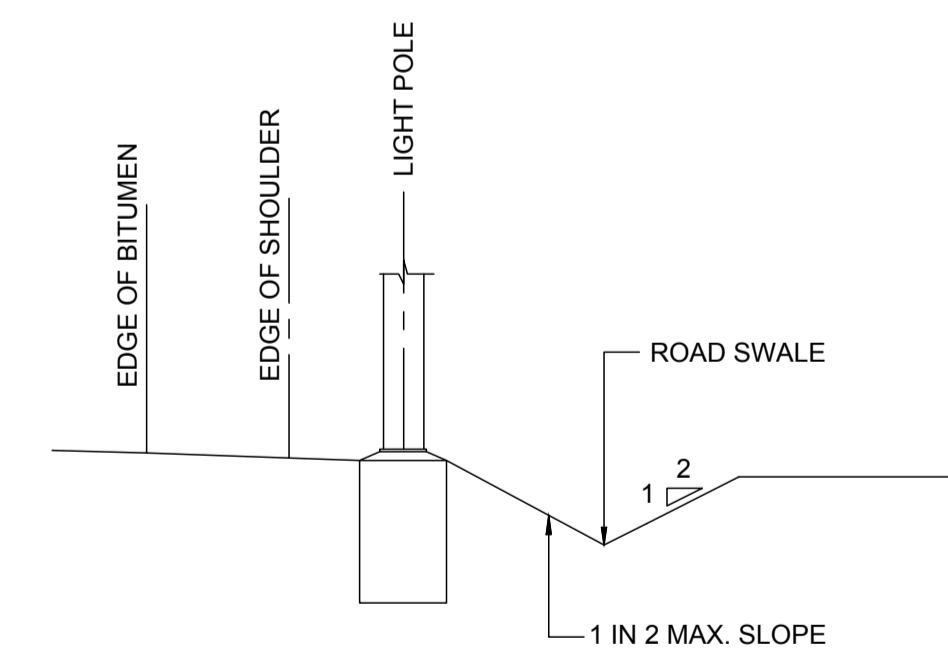
TYPICAL ELECTRICAL PILLAR PROTECTION DETAIL
SCALE 1:50



TYPICAL LIGHT POLE PROTECTION DETAIL
SCALE 1:50



B TYPICAL ELECTRICAL PILLAR SECTION
SCALE 1:50



TYPICAL LIGHT POLE SECTION A
SCALE 1:50

REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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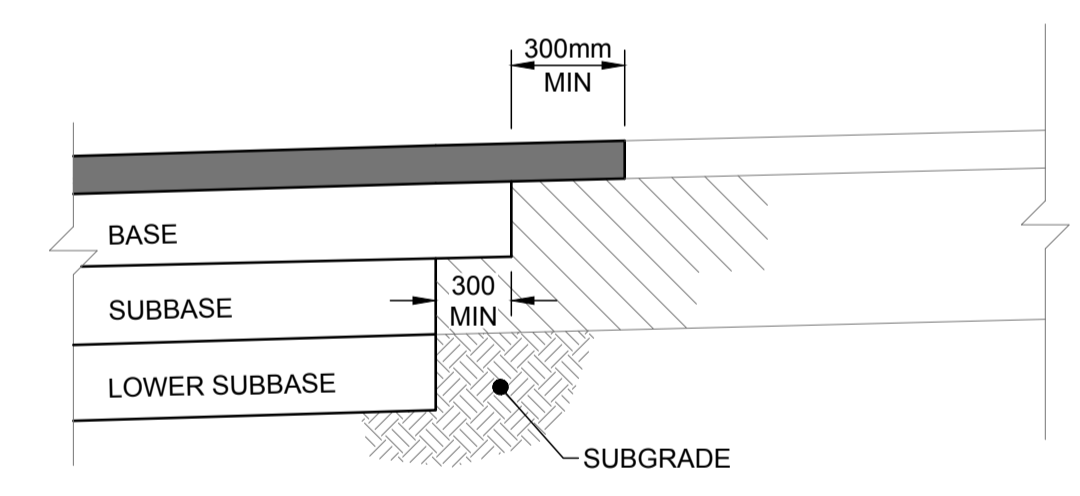
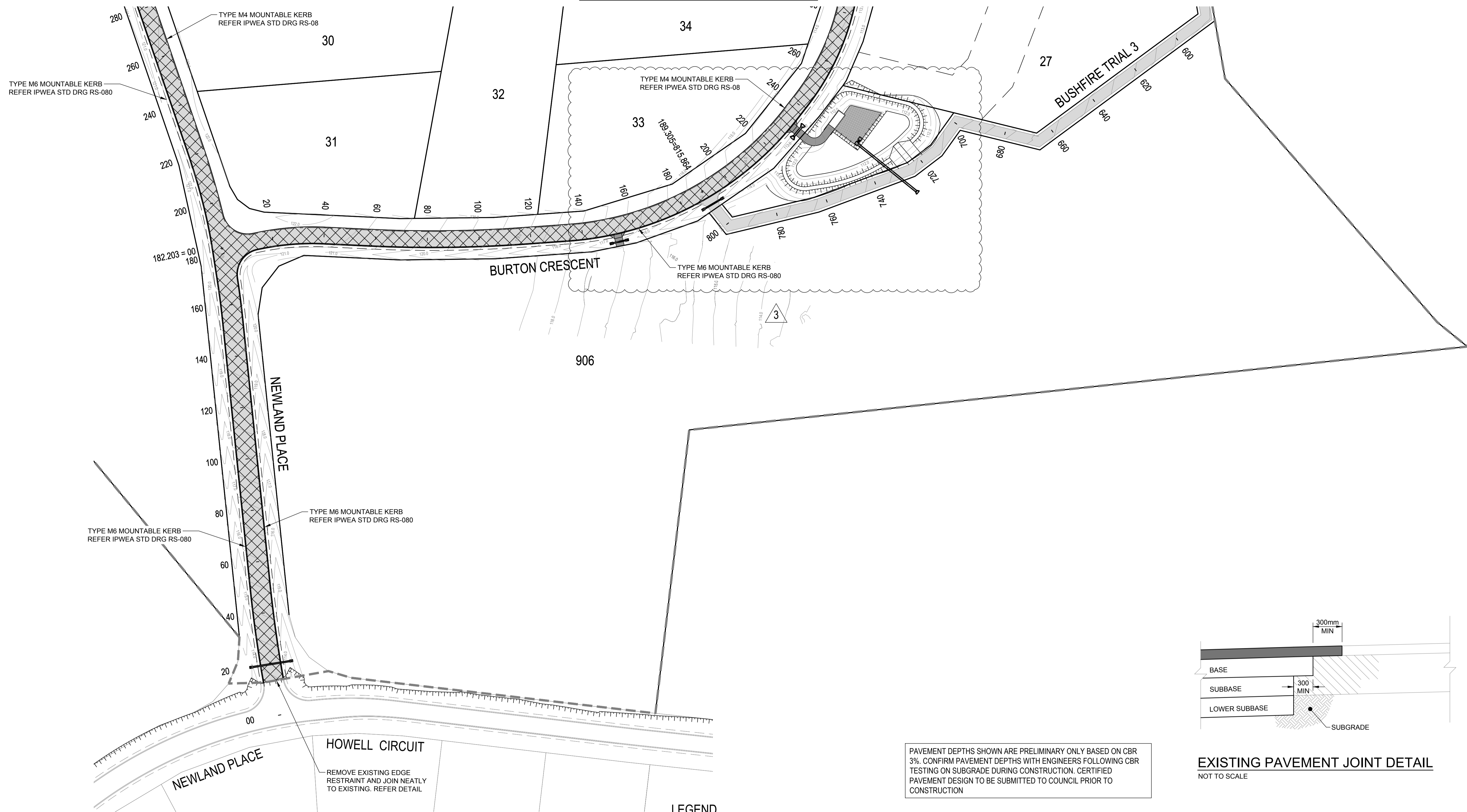
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SCALE
0 1 2 3 4 5m
SCALE 1:50

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
BULK EARTHWORKS DETAILS

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4290	0	

FOR CONTINUATION REFER DWG No. C4301



PAVEMENT DEPTHS SHOWN ARE PRELIMINARY ONLY BASED ON CBR 3%. CONFIRM PAVEMENT DEPTHS WITH ENGINEERS FOLLOWING CBR TESTING ON SUBGRADE DURING CONSTRUCTION. CERTIFIED PAVEMENT DESIGN TO BE SUBMITTED TO COUNCIL PRIOR TO CONSTRUCTION

EXISTING PAVEMENT JOINT DETAIL
NOT TO SCALE

LEGEND

EXISTING	PROPOSED
FENCE	MOUNTABLE KERB TYPE M4
OPEN DRAIN	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M4	CONTOUR (0.5m)
MOUNTABLE KERB TYPE M6	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

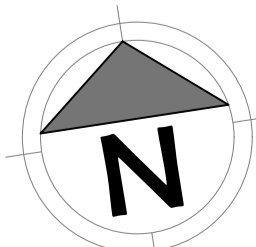
SURFACE TREATMENT LEGEND:

	PAVEMENT 1 - ACCESS STREET - 1x10 ⁵ ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
	HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
	BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.

PAVEMENT NOTES

- FOR ANY PARTIALLY BUILT ASPHALT PAVEMENT, THE PAVEMENT SHOULD NOT BE LOADED (BY EITHER NON-ESSENTIAL CONSTRUCTION OR GENERAL TRAFFIC) UNTIL THE PARTIALLY BUILT ASPHALT PAVEMENT IS ≤ 60mm BELOW THE FINISHED SURFACE LEVEL.
- GENERAL TRAFFIC USE OF A PARTIALLY BUILT ASPHALT PAVEMENT SHOULD BE LIMITED, AS PROLONGED USE WILL RESULT IN A CONSIDERABLY REDUCED PAVEMENT LIFE.
- THE PROPOSED WORK SHOULD BE CUT IN TO EXPOSE THE EDGE OF THE EXISTING PAVEMENT AND NOT SIMPLY BUTTED AGAINST THE EDGE OF THE EXISTING SURFACE.

No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	DRIVEWAY ADDED	MP	17/12/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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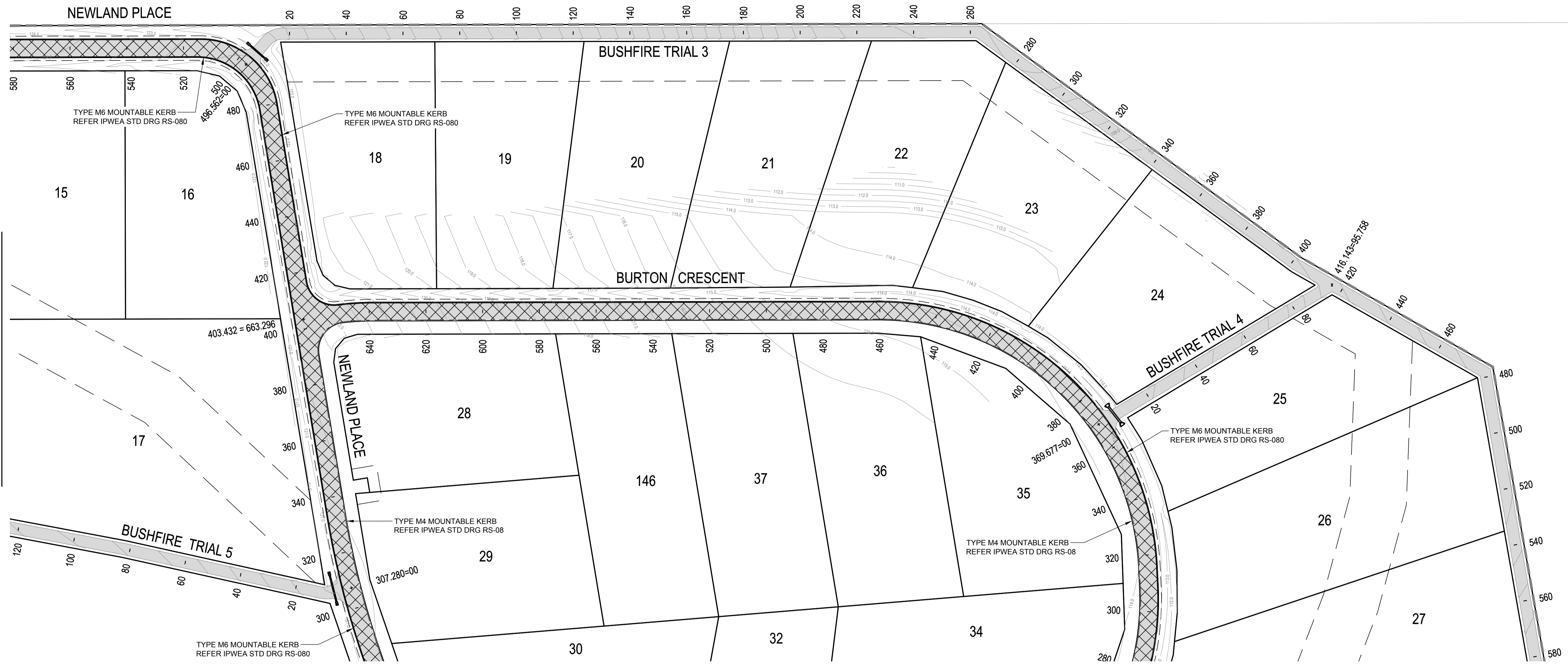
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0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
PAVEMENT PLAN SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4300	REVISION 3	

OR CONTINUATION REFER DWG No. C4302



FOR CONTINUATION REFER DWG No. C4300

LEGEND

EXISTING	PROPOSED
FENCE	MOUNTABLE KERB TYPE M4
OPEN DRAIN	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M4	CONTOUR (0.5m)
MOUNTABLE KERB TYPE M6	ROAD EDGE BITUMEN
ROAD EDGE BITUMEN	ROAD SHOULDER
TREE TO REMAIN	DRAINAGE
TREE TO BE REMOVED	

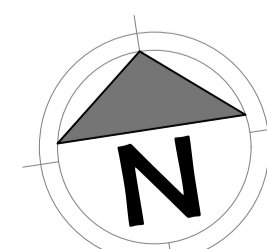
SURFACE TREATMENT LEGEND:

	PAVEMENT 1 - ACCESS STREET - 1x10 ⁵ ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
	HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
	BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.

PAVEMENT NOTES

- FOR ANY PARTIALLY BUILT ASPHALT PAVEMENT, THE PAVEMENT SHOULD NOT BE LOADED (BY EITHER NON-ESSENTIAL CONSTRUCTION OR GENERAL TRAFFIC) UNTIL THE PARTIALLY BUILT ASPHALT PAVEMENT IS ≤ 60mm BELOW THE FINISHED SURFACE LEVEL.
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- THE PROPOSED WORK SHOULD BE CUT IN TO EXPOSE THE EDGE OF THE EXISTING PAVEMENT AND NOT SIMPLY BUTTED AGAINST THE EDGE OF THE EXISTING SURFACE.

REVISIONS:	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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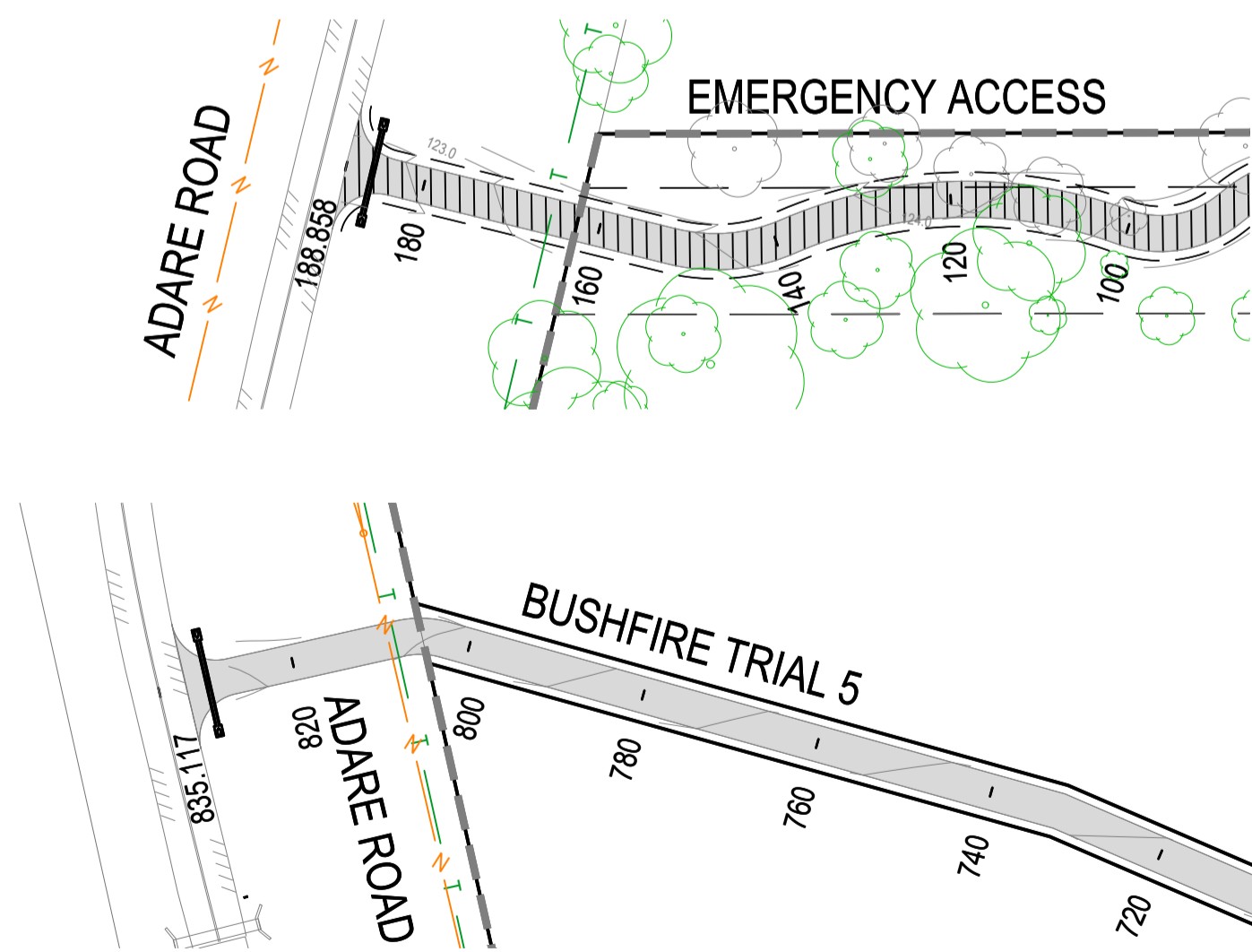
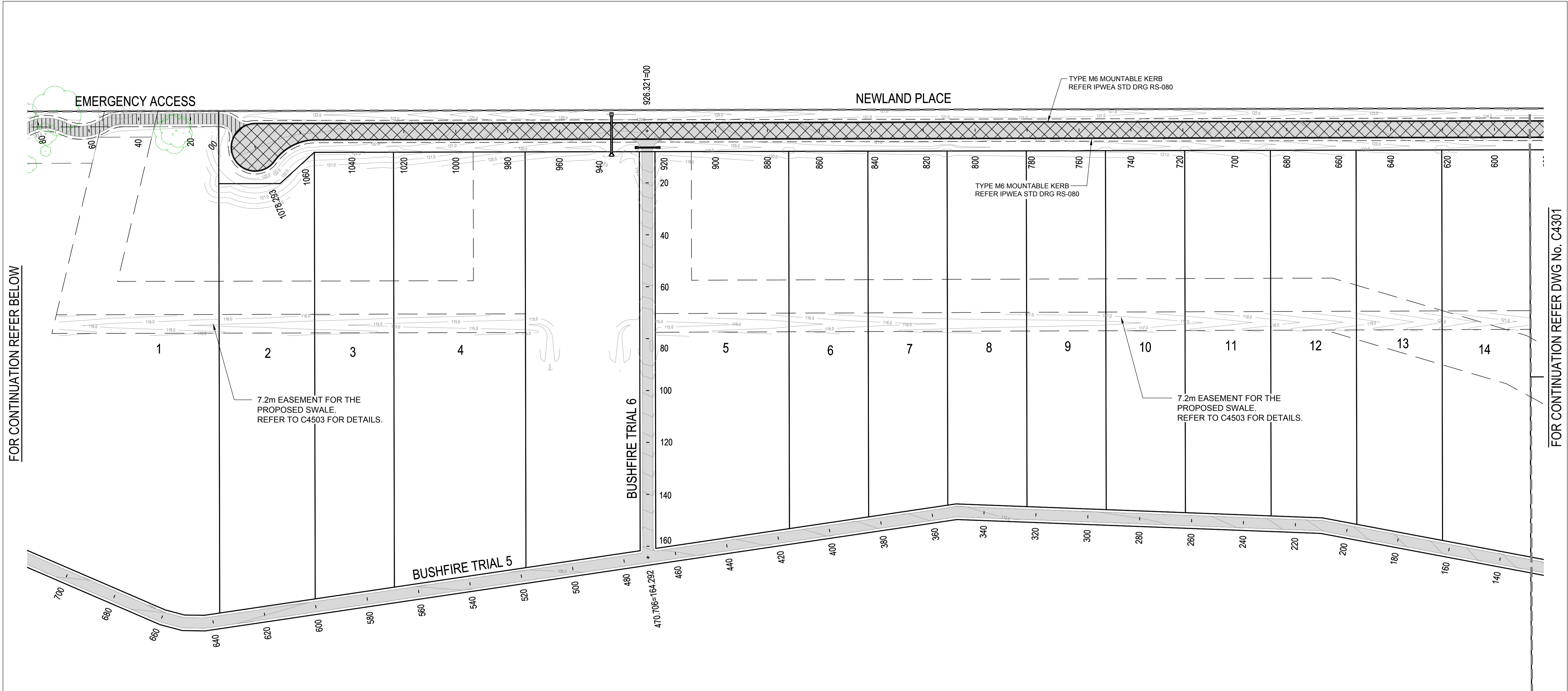
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 SCALE

 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
PAVEMENT PLAN SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4301	REVISION 0	



LEGEND

EXISTING	PROPOSED
FENCE	ROAD EDGE BITUMEN
OPEN DRAIN	MOUNTABLE KERB TYPE M4
MOUNTABLE KERB TYPE M4	MOUNTABLE KERB TYPE M6
MOUNTABLE KERB TYPE M6	CONTOUR (0.5m)
ROAD EDGE BITUMEN	ROAD EDGE BITUMEN
TREE TO REMAIN	ROAD SHOULDER
TREE TO BE REMOVED	DRAINAGE

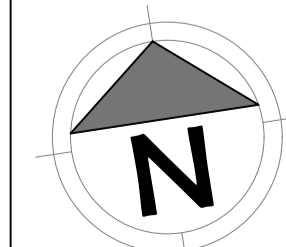
SURFACE TREATMENT LEGEND:

	PAVEMENT 1 - ACCESS STREET - 1x10 ⁵ ASPHALT - 30mm @ DG10, CLASS 320 BITUMEN BINDER WITH EMULSION PRIME 150mm THICK BASE COURSE - TYPE 2.1 (CBR 80) BINDER WITH EMULSION PRIME 150mm THICK SUB-BASE - TYPE 2.3 (CBR 45) TOTAL PAVEMENT DEPTH = 330mm
	HEAVY DUTY DRIVEWAY REFER IPWEA STD DRG RS-051
	BUSHFIRE TRAIL REFER DRGS C4700-C1716 FOR DETAILS.
	EMERGENCY ACCESS 100mm BASE COURSE - TYPE 2.5 (CBR15)

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REVISIONS:	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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SCALE

0 7.5 15 22.5 30 37.5m 75m

SCALE 1:750

PROJECT TITLE

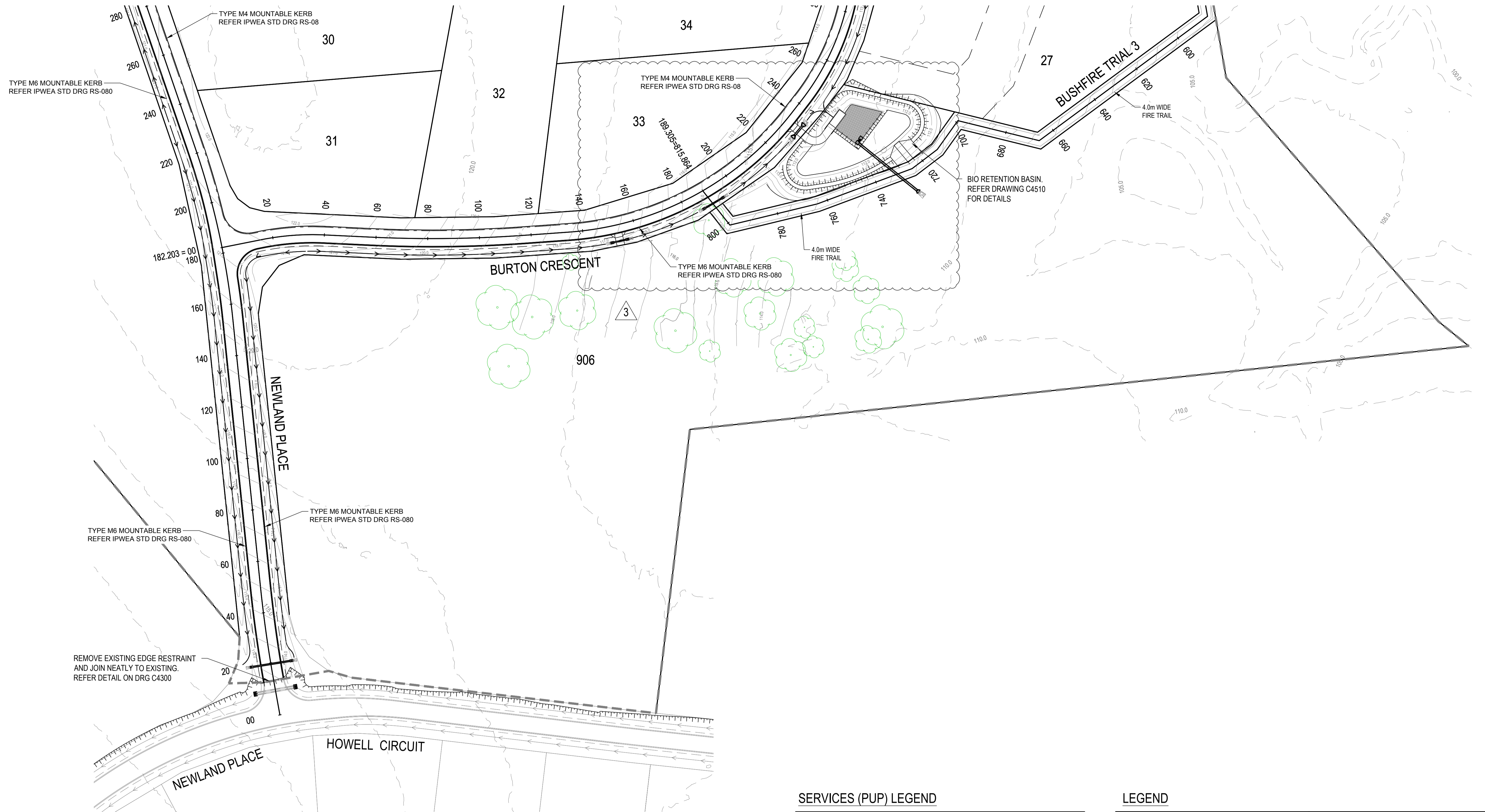
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE

PAVEMENT PLAN SHEET 3

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4302		0

FOR CONTINUATION REFER DWG No. C4401



NOTE
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10% FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

SERVICES (PUP) LEGEND

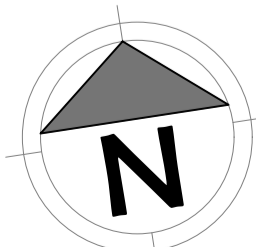
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
	→ → → → OPEN DRAIN
	===== MOUNTABLE KERB TYPE M4
	===== MOUNTABLE KERB TYPE M6
	----- CONTOUR (0.5m)
	----- ROAD EDGE BITUMEN
	----- ROAD SHOULDER
	----- DRAINAGE

No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	DRIVEWAY ADDED	MP	17/12/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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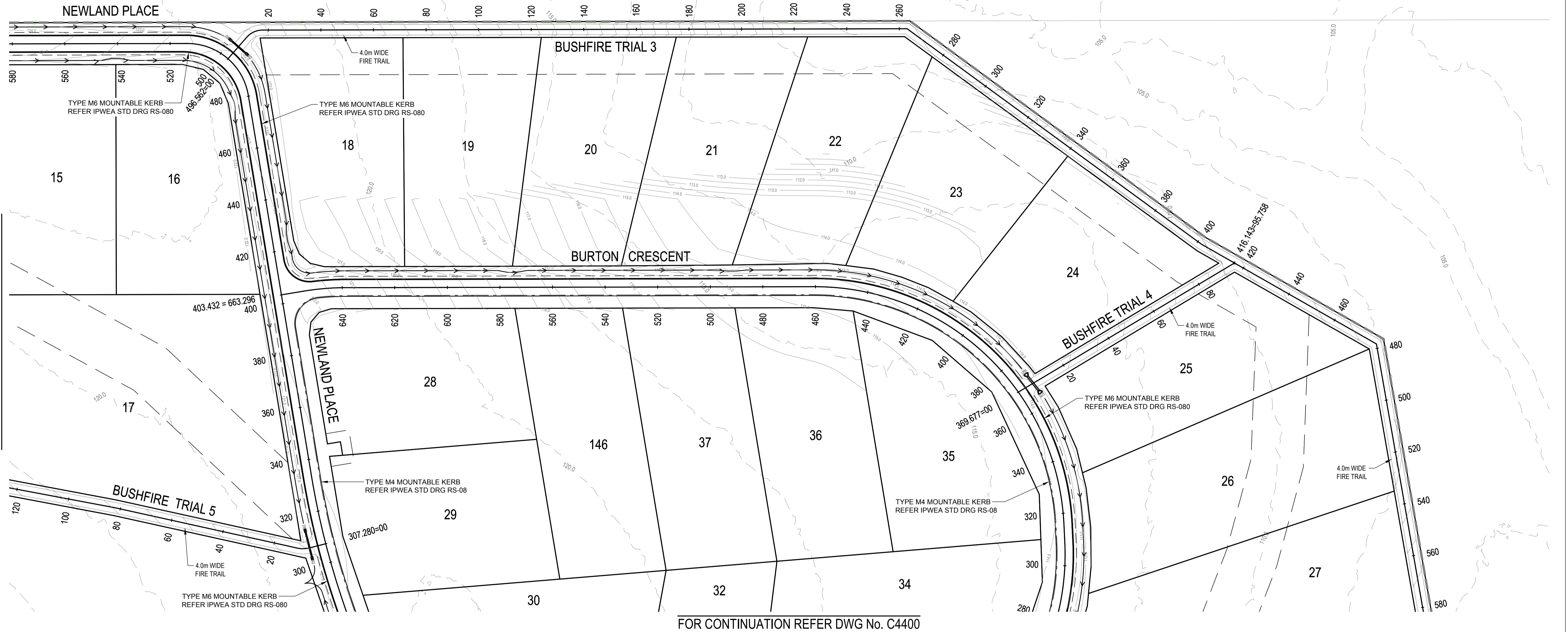
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SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
ROADWORKS PLAN SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4400	REVISION 3	

OR CONTINUATION REFER DWG No. C4402



FOR CONTINUATION REFER DWG No. C4400

NOTE
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10%
FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

SERVICES (PUP) LEGEND

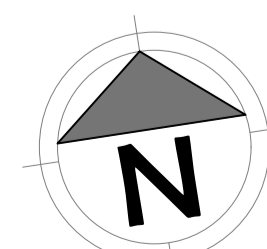
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED
	→ → → → OPEN DRAIN
	— — — — MOUNTABLE KERB TYPE M4
	— — — — MOUNTABLE KERB TYPE M6
	— — — — CONTOUR (0.5m)
	— — — — ROAD EDGE BITUMEN
	— — — — ROAD SHOULDER
	— — — — DRAINAGE

REVISIONS:	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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LEVEL 3, 51 ALFRED STREET
FORTITUDE VALLEY QLD 4006
Telephone +61 7 3021 6600
www.vandermeer.com.au
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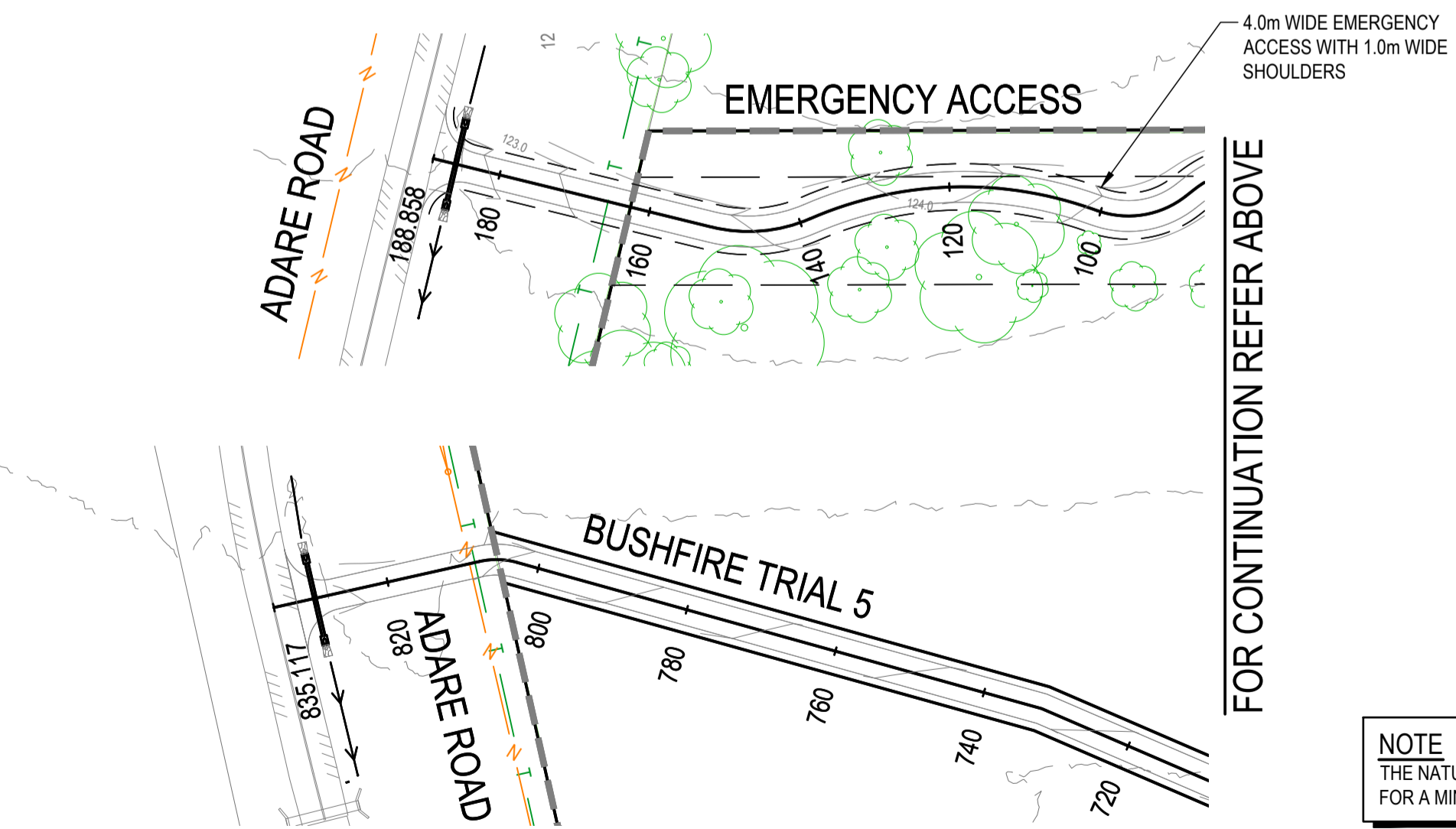
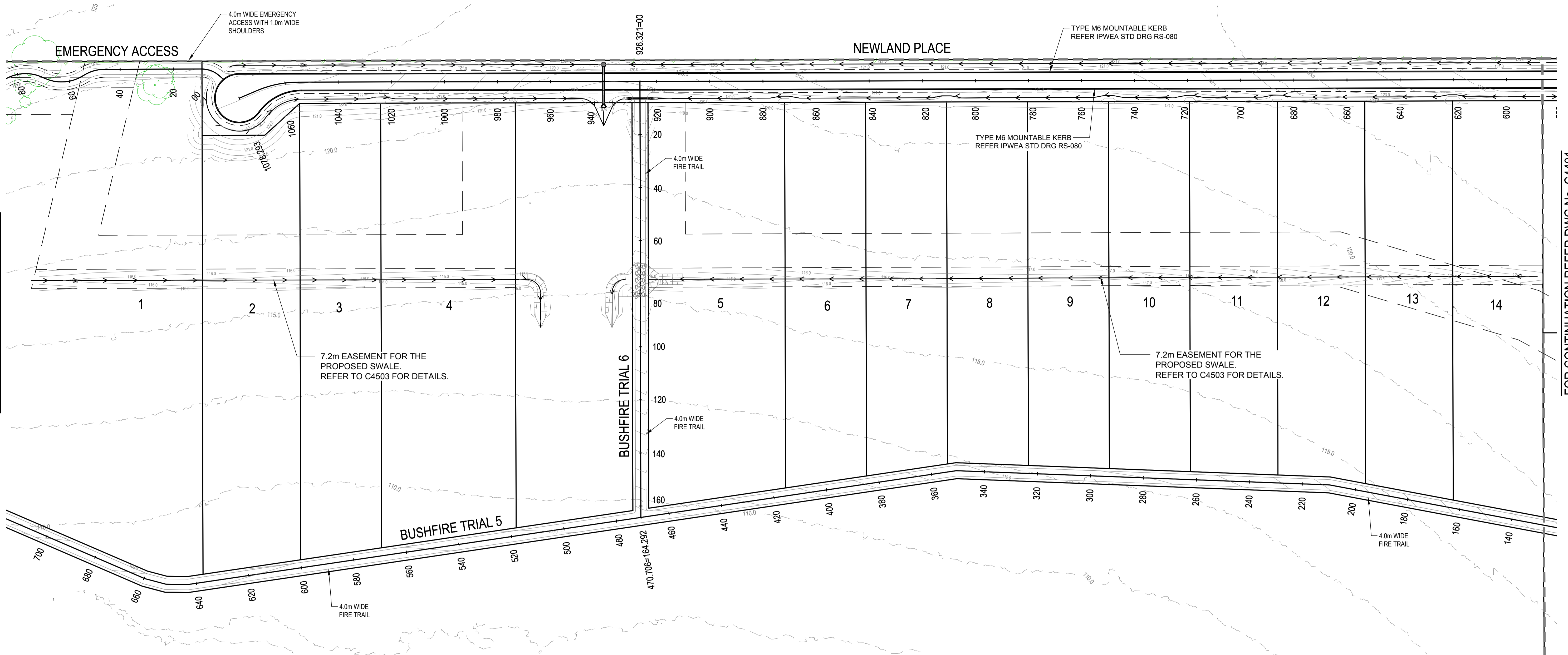
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300
SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
ROADWORKS PLAN SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER: CK
DESIGNER: MP
SIGNATURE: [Signature]
DRAFTSPERSON: MP
SCALE: AS SHOWN
DATE: 29/08/24
SHEET SIZE: A1
JOB No: BR242001
DRAWING No: C4401
REVISION: 0

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4401



NOTE
THE NATURAL SLOPE OF ALL LOTS IS FLATTER THAN 10%
FOR A MINIMUM OF 80% OF THE TOTAL LOT AREA.

SERVICES (PUP) LEGEND

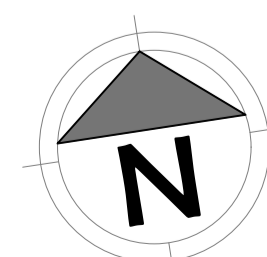
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

LEGEND

EXISTING	PROPOSED

REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION



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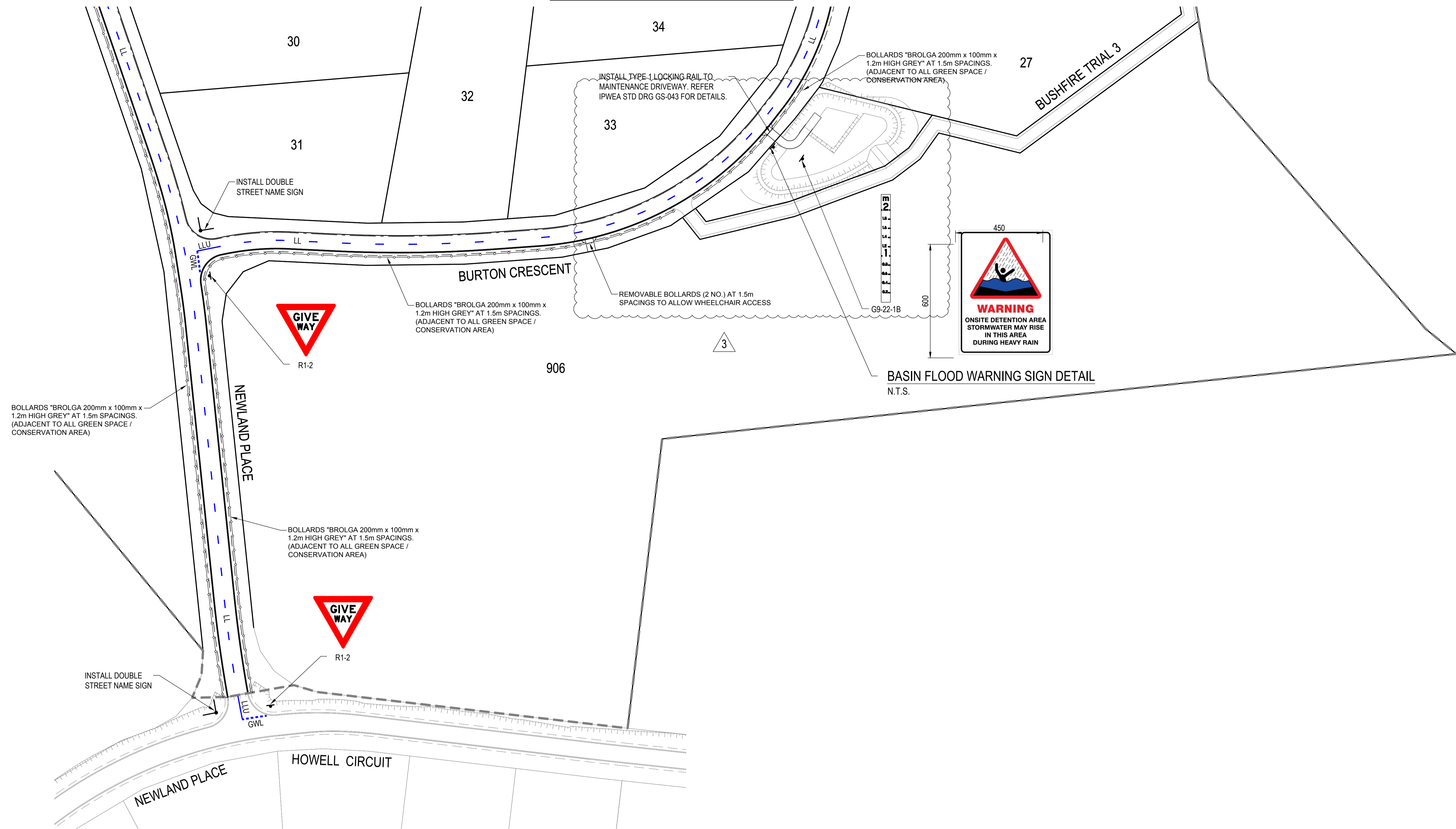
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IF IN DOUBT - ASK.

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300
SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
ROADWORKS PLAN SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER: CK
DESIGNER: MP
SIGNATURE: [Signature]
DRAFTSPERSON: MP
SCALE: AS SHOWN
DATE: 29/08/24
SHEET SIZE: A1
JOB No.: BR242001
DRAWING No.: C4402
REVISION: 0

FOR CONTINUATION REFER DWG No. C4431



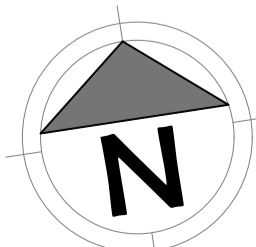
BASIN FLOOD WARNING SIGN DETAIL
N.T.S.

PAVEMENT MARKING LEGEND	
LLU	SEPARATION LINE UNBROKEN (150mm)
LL	LANE LINE BROKEN (150mm) 3m LINE, 9m GAP
GWL	GIVE WAY LINE (300mm)

SIGNS LEGEND	
	NEW SIGN

- PAVEMENT MARKING NOTES**
- ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
 - ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
 - DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
 - ALL LINEWORK TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
 - PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
 - INSTALL GUIDE POSTS TO EDGE OF BITUMEN ALONG TABLE DRAINS IN ACCORDANCE WITH TMR STD DRG SD1356.
 - INSTALL GUIDE POSTS TO BOTH SIDES OF ALL DRIVEWAYS.
 - LINE MARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.
 - GIVEWAY PAVEMENT MARKING LOCATIONS TO BE IN ACCORDANCE WITH MUTCD.

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	DRIVEWAY ADDED	MP	17/12/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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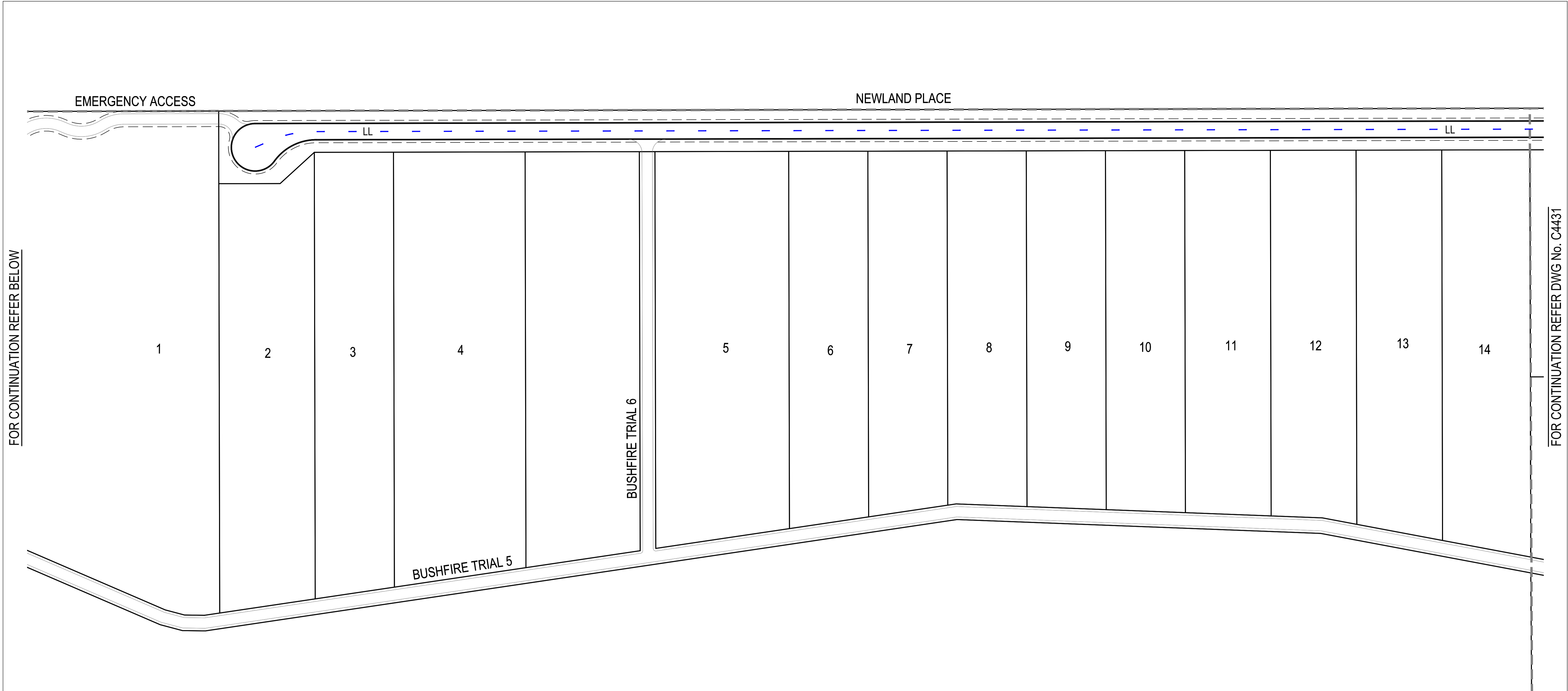
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

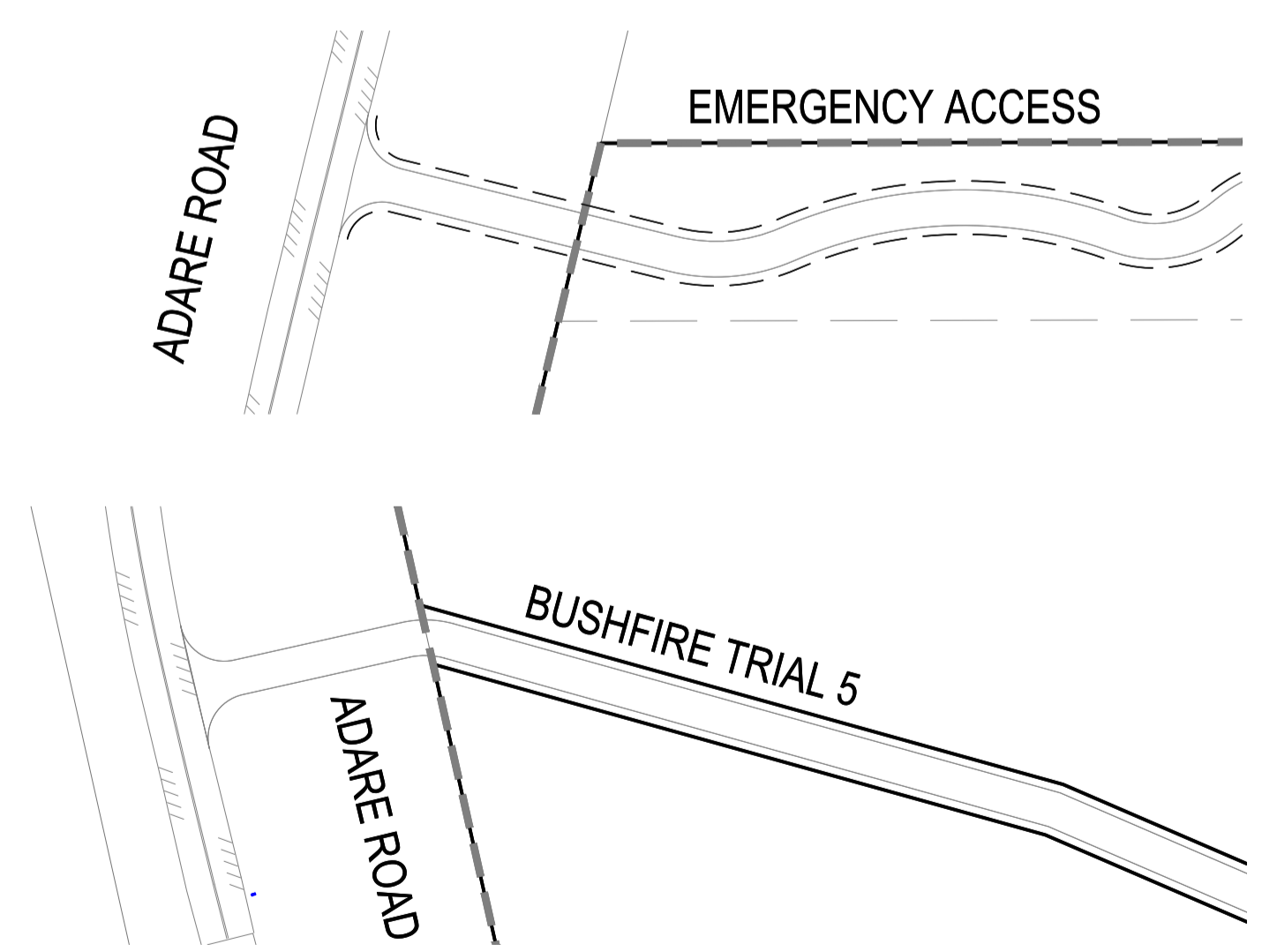
DRAWING TITLE
SIGNS AND PAVEMENT MARKING PLAN - SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4430	3	



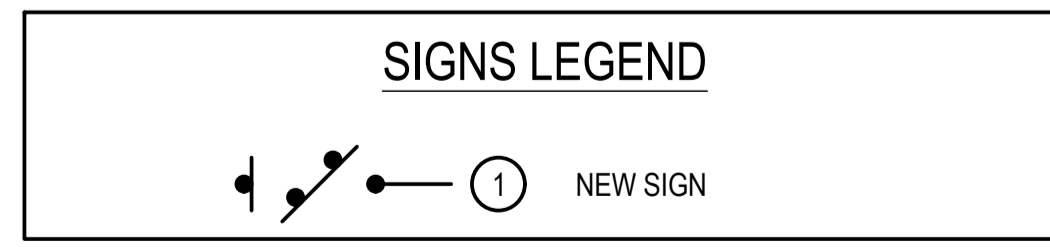
FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER DWG No. C4431



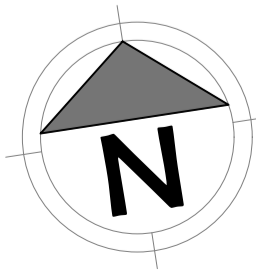
FOR CONTINUATION REFER ABOVE

PAVEMENT MARKING LEGEND	
LLU	SEPARATION LINE UNBROKEN (150mm)
LL	LANE LINE BROKEN (150mm) 3m LINE, 9m GAP
GWL	GIVE WAY LINE (300mm)



- PAVEMENT MARKING NOTES**
- ALL LONGITUDINAL LINES AS PER MUTCD SECTION 5.2.
 - ALL TRANSVERSE LINES AS PER MUTCD SECTION 5.4.
 - DIAGONAL AND CHEVRONS AS PER MUTCD SECTION 5.5.
 - ALL LINework TO HAVE RAISED REFLECTIVE MARKERS INSTALLED AS PER MUTCD SECTION 5.6.
 - PAINT FULL WIDTH EDGE LINE (EL) 200mm FROM EDGE OF BITUMEN AS SHOWN.
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 - INSTALL GUIDE POSTS TO BOTH SIDES OF ALL DRIVEWAYS.
 - LINEMARKING SHALL BE DULUX ROADMASTER WATER BASED PAVEMENT MARKING OR APPROVED EQUIVALENT.
 - GIVEWAY PAVEMENT MARKING LOCATIONS TO BE IN ACCORDANCE WITH MUTCD.

REVISIONS:			
No.	REVISION DESCRIPTION	MP DRAWN	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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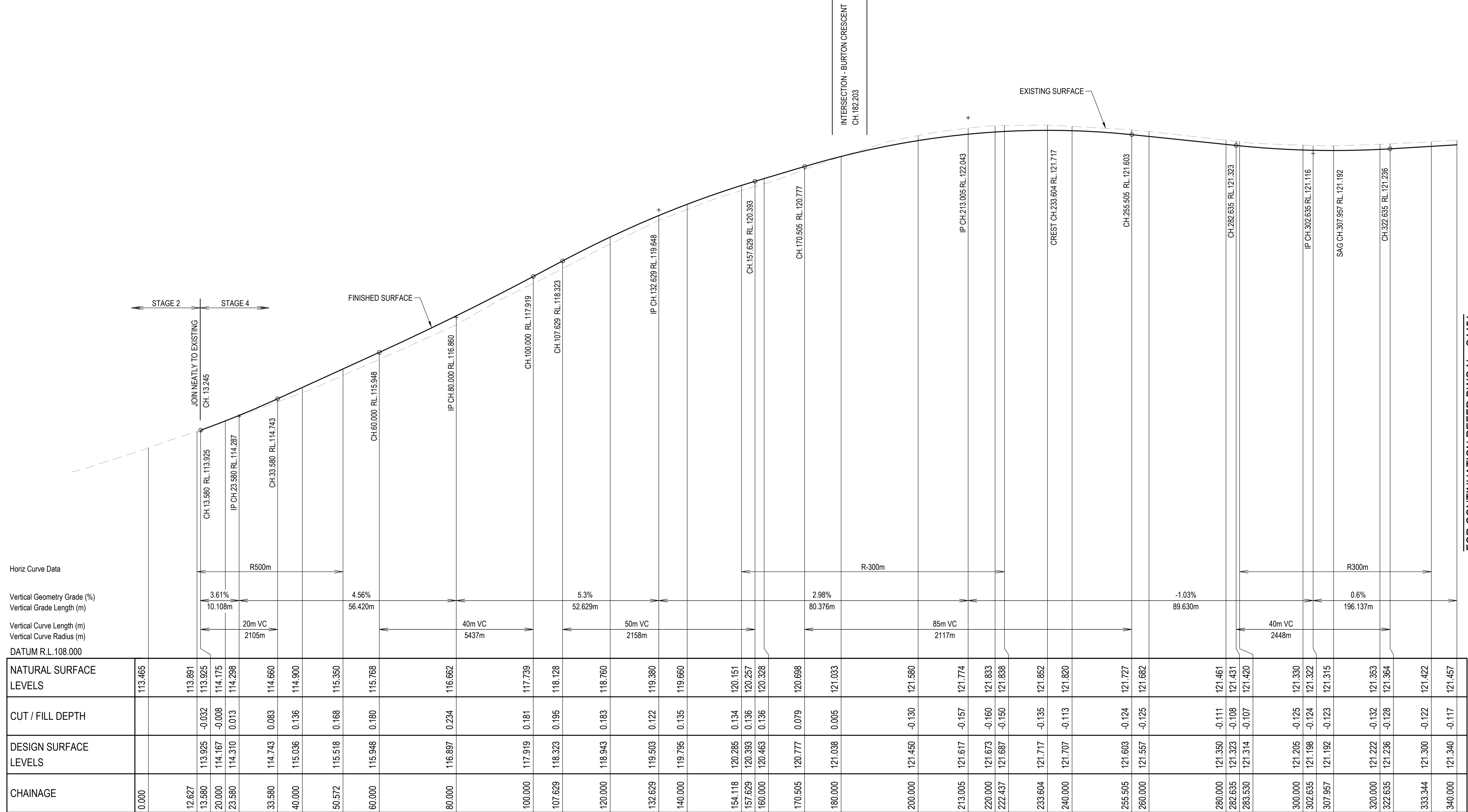
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
SIGNS AND PAVEMENT MARKING PLAN - SHEET 3

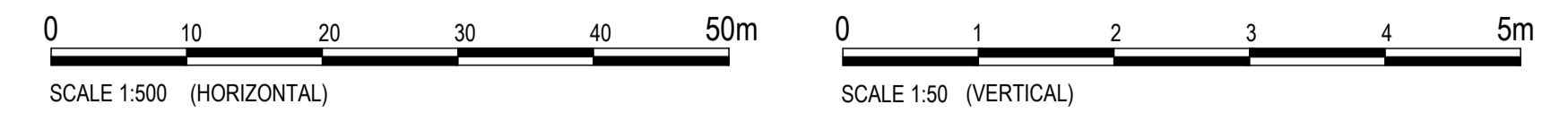
DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4432	0	



Horiz Curve Data
 Vertical Geometry Grade (%)
 Vertical Grade Length (m)
 Vertical Curve Length (m)
 Vertical Curve Radius (m)
 DATUM R.L. 108.000

	0.000	12.627	13.580	14.167	14.298	33.580	40.000	50.572	60.000	80.000	100.000	107.629	120.000	132.629	140.000	154.118	157.629	160.000	170.505	180.000	200.000	213.005	220.000	222.437	233.604	240.000	255.505	260.000	280.000	282.635	283.530	300.000	302.635	307.957	320.000	322.635	333.344	340.000
NATURAL SURFACE LEVELS	113.465	113.891	113.925	114.175	114.298	114.660	114.900	115.350	115.768	116.662	117.739	118.128	118.760	119.380	119.660	120.151	120.257	120.328	120.698	121.033	121.580	121.774	121.833	121.838	121.852	121.820	121.727	121.682	121.461	121.431	121.420	121.330	121.322	121.315	121.353	121.364	121.422	121.457
CUT / FILL DEPTH			-0.032	-0.008	0.013	0.083	0.136	0.168	0.180	0.234	0.181	0.195	0.183	0.122	0.135	0.134	0.136	0.136	0.079	0.005	-0.130	-0.157	-0.160	-0.150	-0.135	-0.113	-0.124	-0.125	-0.111	-0.108	-0.107	-0.125	-0.124	-0.123	-0.132	-0.128	-0.122	-0.117
DESIGN SURFACE LEVELS			113.925	114.167	114.310	114.743	115.036	115.518	115.948	116.897	117.919	118.323	118.943	119.503	119.795	120.285	120.393	120.463	120.777	121.038	121.450	121.617	121.673	121.687	121.717	121.707	121.603	121.557	121.350	121.323	121.314	121.205	121.198	121.192	121.222	121.236	121.300	121.340
CHAINAGE	0.000	12.627	13.580	20.000	23.580	33.580	40.000	50.572	60.000	80.000	100.000	107.629	120.000	132.629	140.000	154.118	157.629	160.000	170.505	180.000	200.000	213.005	220.000	222.437	233.604	240.000	255.505	260.000	280.000	282.635	283.530	300.000	302.635	307.957	320.000	322.635	333.344	340.000

LONGITUDINAL SECTION - NEWLAND PLACE
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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 P. HOSBET AK

CLIENT
PARK LAKE ADARE PTY LTD
 PO BOX 4107 SPRINGFIELD QLD 4300
 SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
ROAD LONGITUDINAL SECTION
 NEWLAND PLACE - SHEET 1

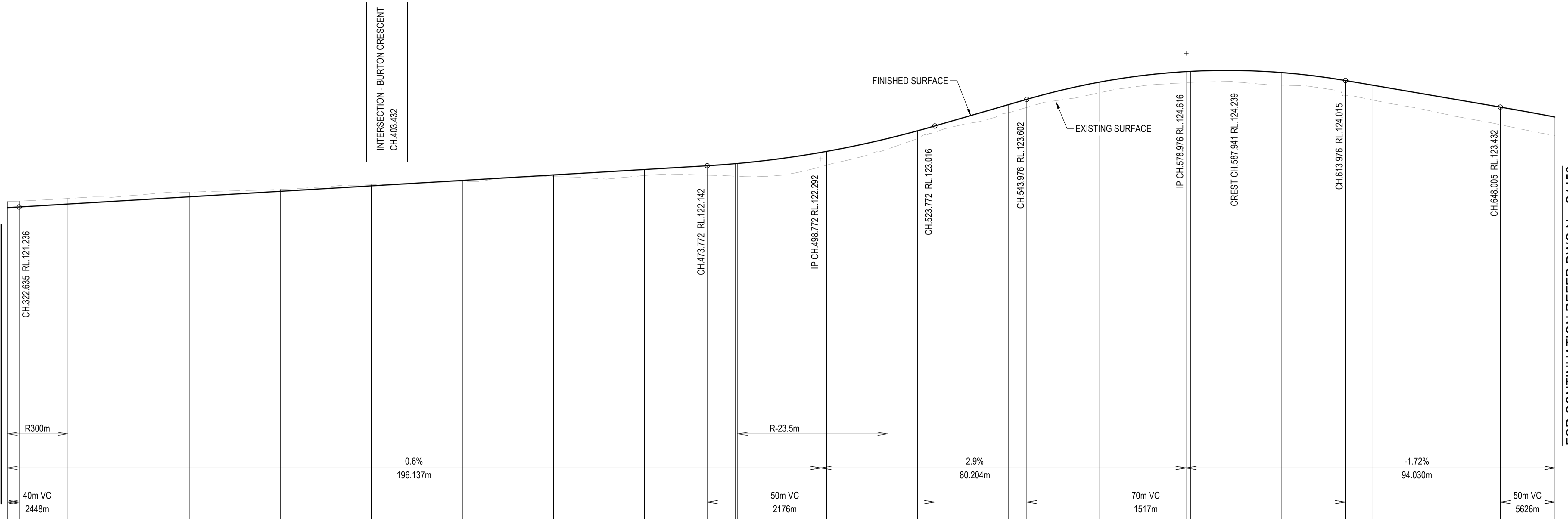
DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SIGNATURE: [Signature]
 DRAFTER/PERSON: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No: BR242001
 DRAWING No: C4450
 REVISION: 0

FOR CONTINUATION REFER DWG No. C4451

FOR CONTINUATION REFER DWG No. C4450

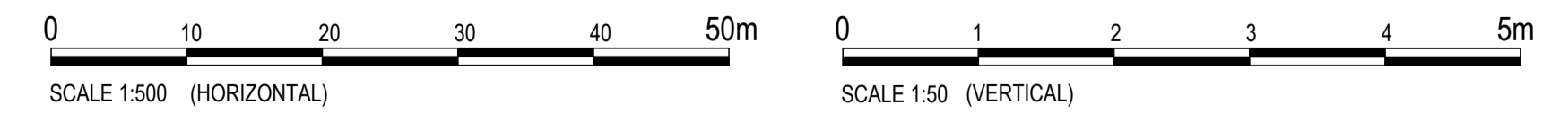
FOR CONTINUATION REFER DWG No. C4452

Horiz Curve Data
Vertical Geometry Grade (%)
Vertical Grade Length (m)
Vertical Curve Length (m)
Vertical Curve Radius (m)
DATUM R.L.114.000



CHAINAGE	320.000	322.635	333.344	340.000	360.000	380.000	400.000	420.000	440.000	460.000	473.772	480.000	480.388	498.772	500.000	513.484	520.000	523.772	540.000	543.976	560.000	578.976	580.000	587.941	600.000	613.976	620.000	640.000	648.005	660.000
NATURAL SURFACE LEVELS	121.353	121.364	121.422	121.457	121.561	121.620	121.723	121.787	121.901	121.929	121.936	121.912	121.910	122.119	122.153	122.511	122.738	122.876	123.309	123.424	123.747	123.969	123.976	123.993	123.914	123.680	123.587	123.195	123.044	122.804
CUT / FILL DEPTH	-0.132	-0.128	-0.122	-0.117	-0.101	-0.040	-0.023	0.032	0.038	0.131	0.206	0.276	0.282	0.316	0.304	0.231	0.172	0.140	0.178	0.178	0.234	0.243	0.242	0.246	0.277	0.335	0.325	0.374	0.387	0.409
DESIGN SURFACE LEVELS	121.222	121.236	121.300	121.340	121.460	121.580	121.700	121.820	121.940	122.060	122.142	122.188	122.192	122.436	122.457	122.743	122.910	123.016	123.487	123.602	123.982	124.212	124.218	124.239	124.191	124.015	123.912	123.569	123.432	123.213

LONGITUDINAL SECTION - NEWLAND PLACE
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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P.10/08/24 - AK

CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

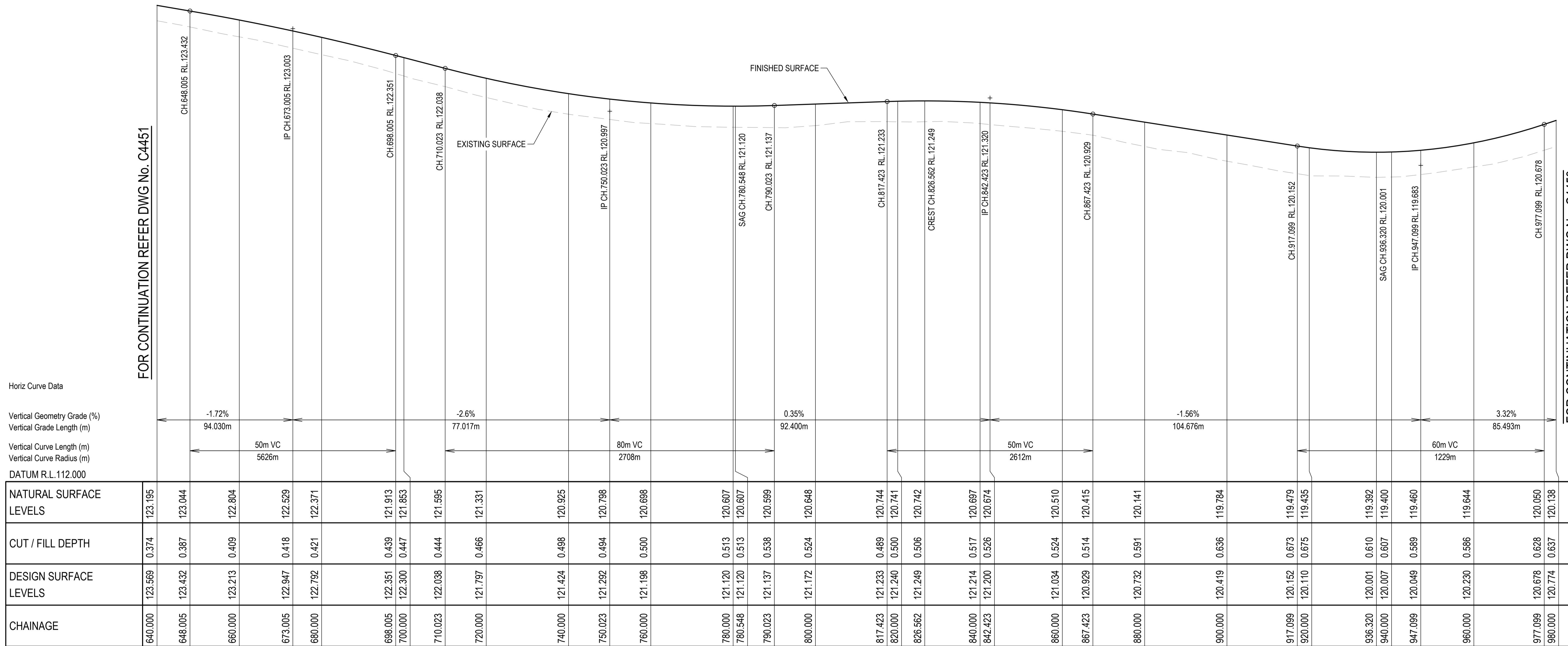
DRAWING TITLE
ROAD LONGITUDINAL SECTION
NEWLAND PLACE - SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

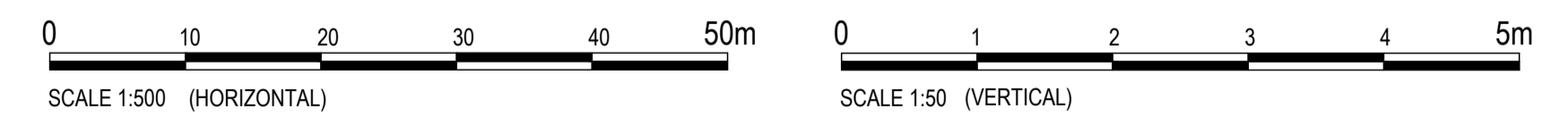
PROJECT LEADER	DESIGNER	SIGNATURE	DRAFTSPERSON	SCALE	DATE	SHEET SIZE
CK	MP		MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION				
BR242001	C4451	0				

FOR CONTINUATION REFER DWG No. C4451

FOR CONTINUATION REFER DWG No. C4453



LONGITUDINAL SECTION - NEWLAND PLACE
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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van der meer
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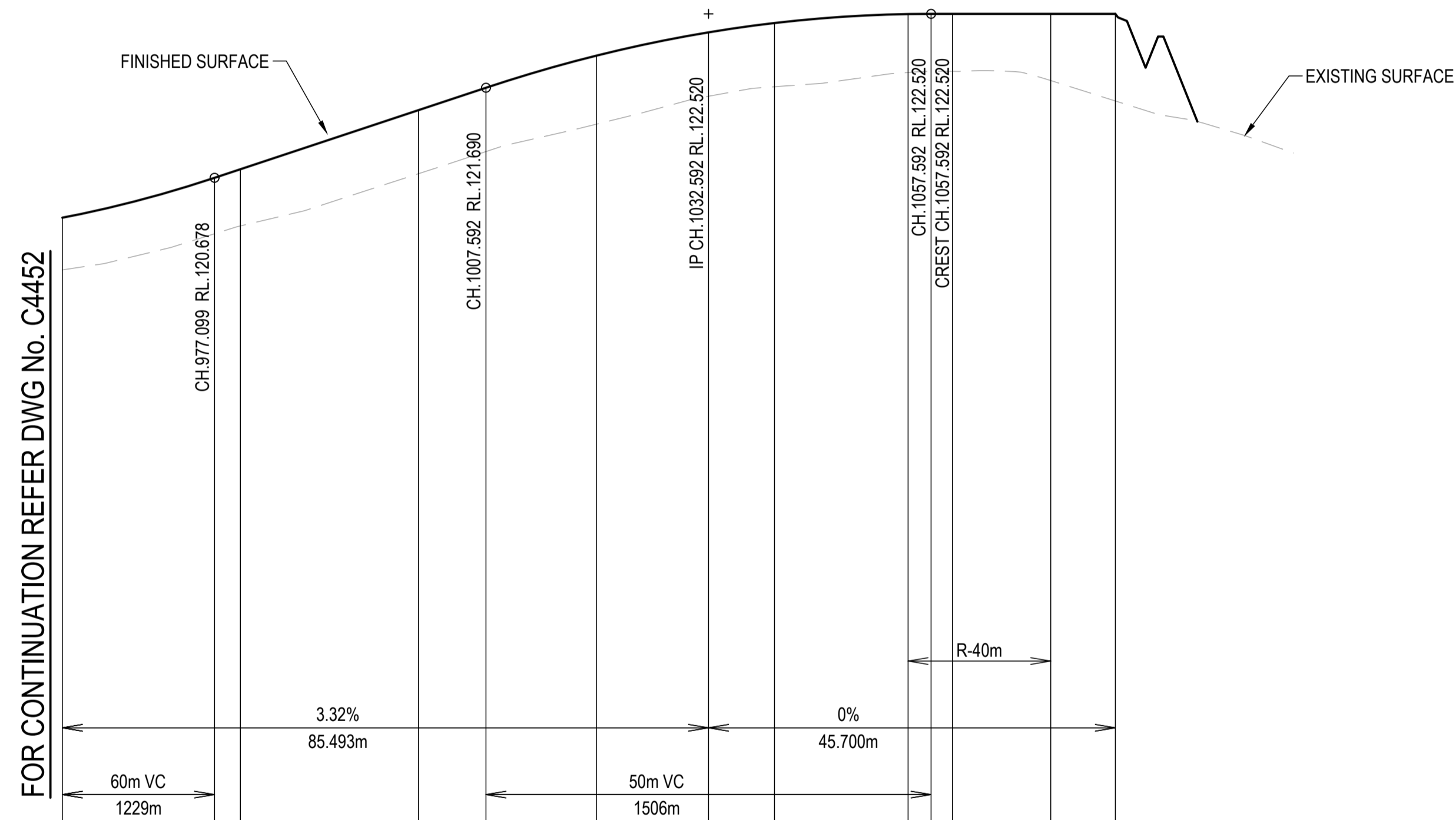
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
ROAD LONGITUDINAL SECTION
 NEWLAND PLACE - SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4452	0	



Horiz Curve Data

Vertical Geometry Grade (%)

Vertical Grade Length (m)

Vertical Curve Length (m)

Vertical Curve Radius (m)

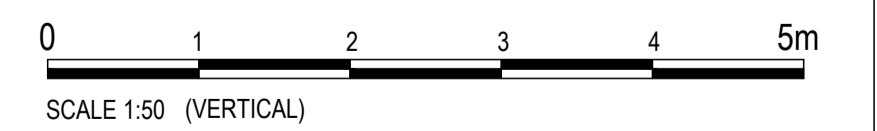
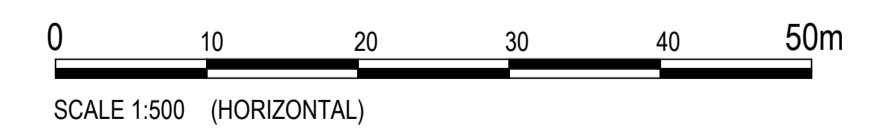
DATUM R.L. 113.000

NATURAL SURFACE LEVELS	119.644		120.050	120.138		120.724	120.973		121.281	121.595	121.701		121.862	121.875	121.875		121.771	121.542
CUT / FILL DEPTH	0.586		0.628	0.637		0.714	0.717		0.770	0.718	0.716		0.655	0.645	0.645		0.749	0.978
DESIGN SURFACE LEVELS	120.230		120.678	120.774		121.438	121.690		122.051	122.313	122.417		122.518	122.520	122.520		122.520	122.520
CHAINAGE	960.000		977.099	980.000		1000.000	1007.592		1020.000	1032.592	1040.000		1055.006	1057.592	1060.000		1071.036	1078.293

LONGITUDINAL SECTION - NEWLAND PLACE

HORIZONTAL SCALE 1:500

VERTICAL SCALE 1:50



REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION



van der Meer Consulting

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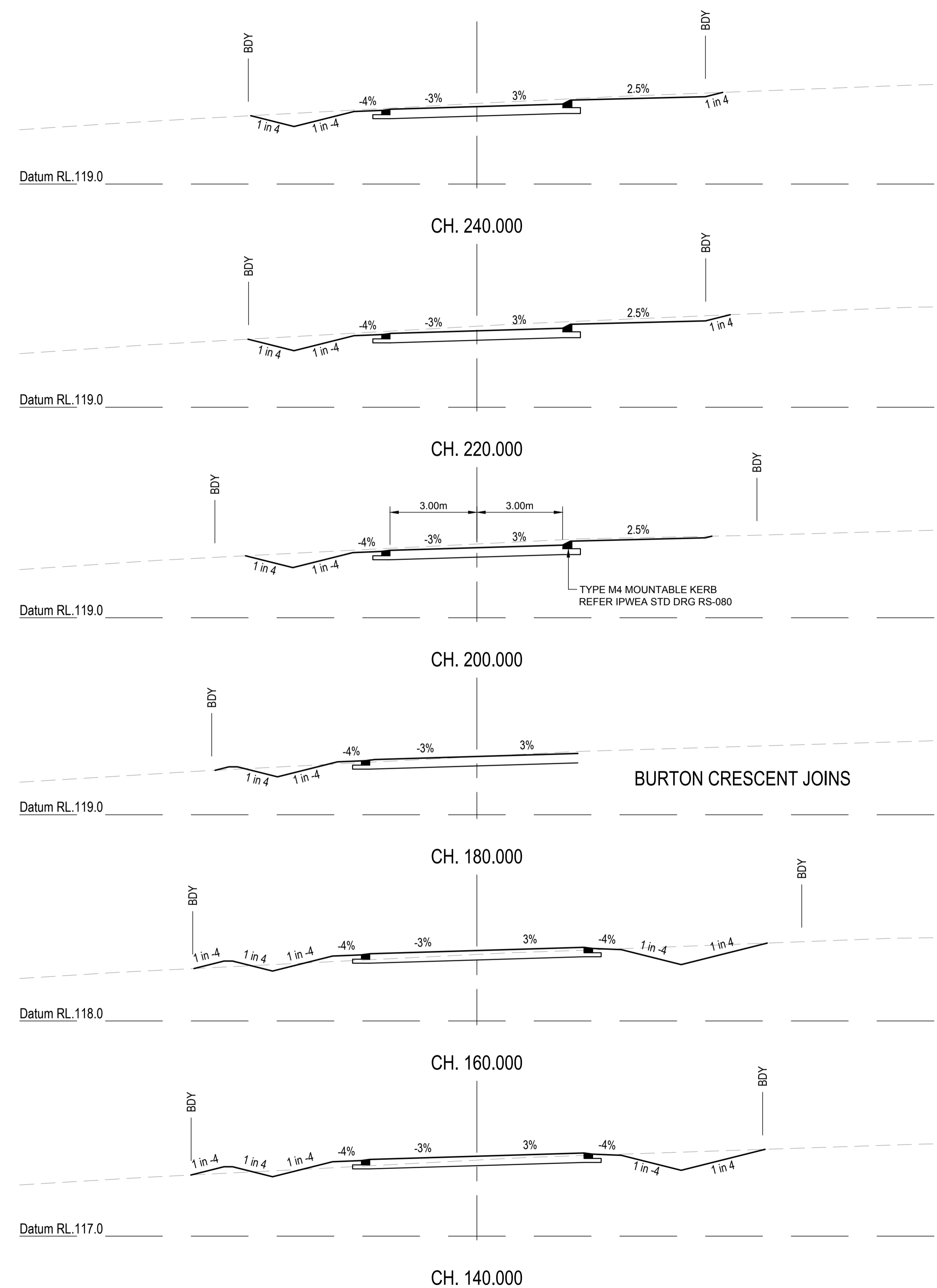
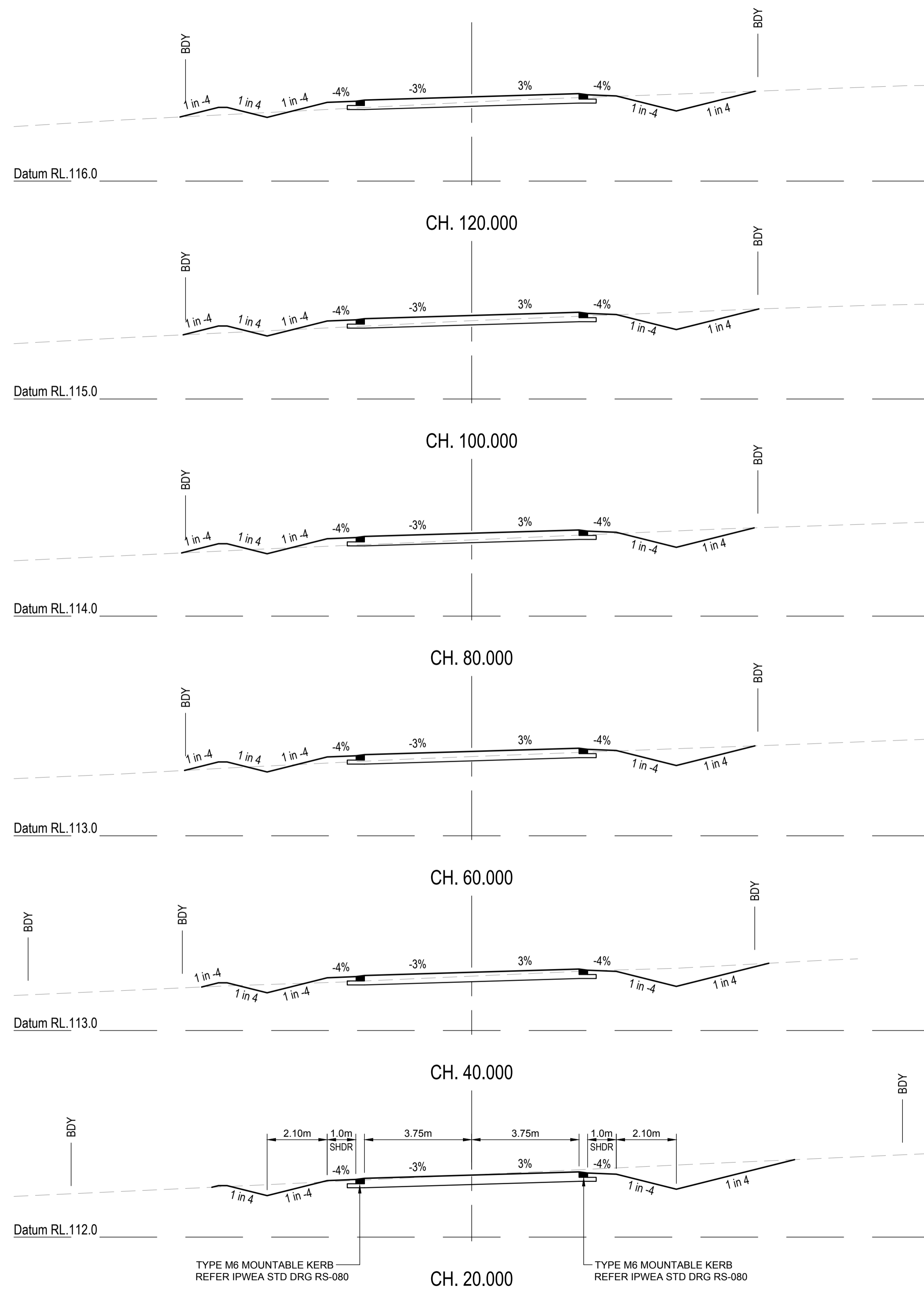
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD LONGITUDINAL SECTION
NEWLAND PLACE - SHEET 4

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4453	REVISION 0	



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PARKLAKE
ADARE

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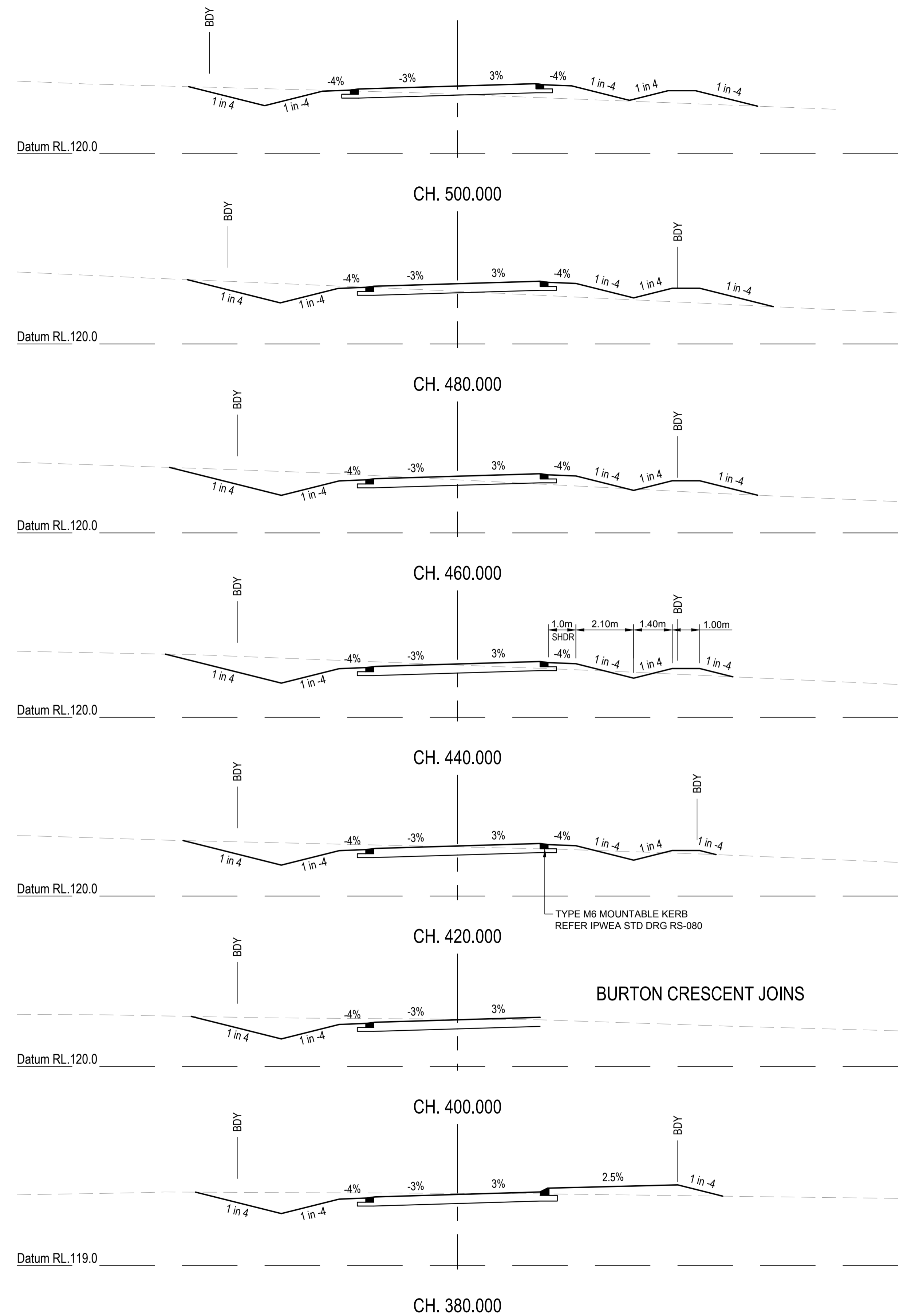
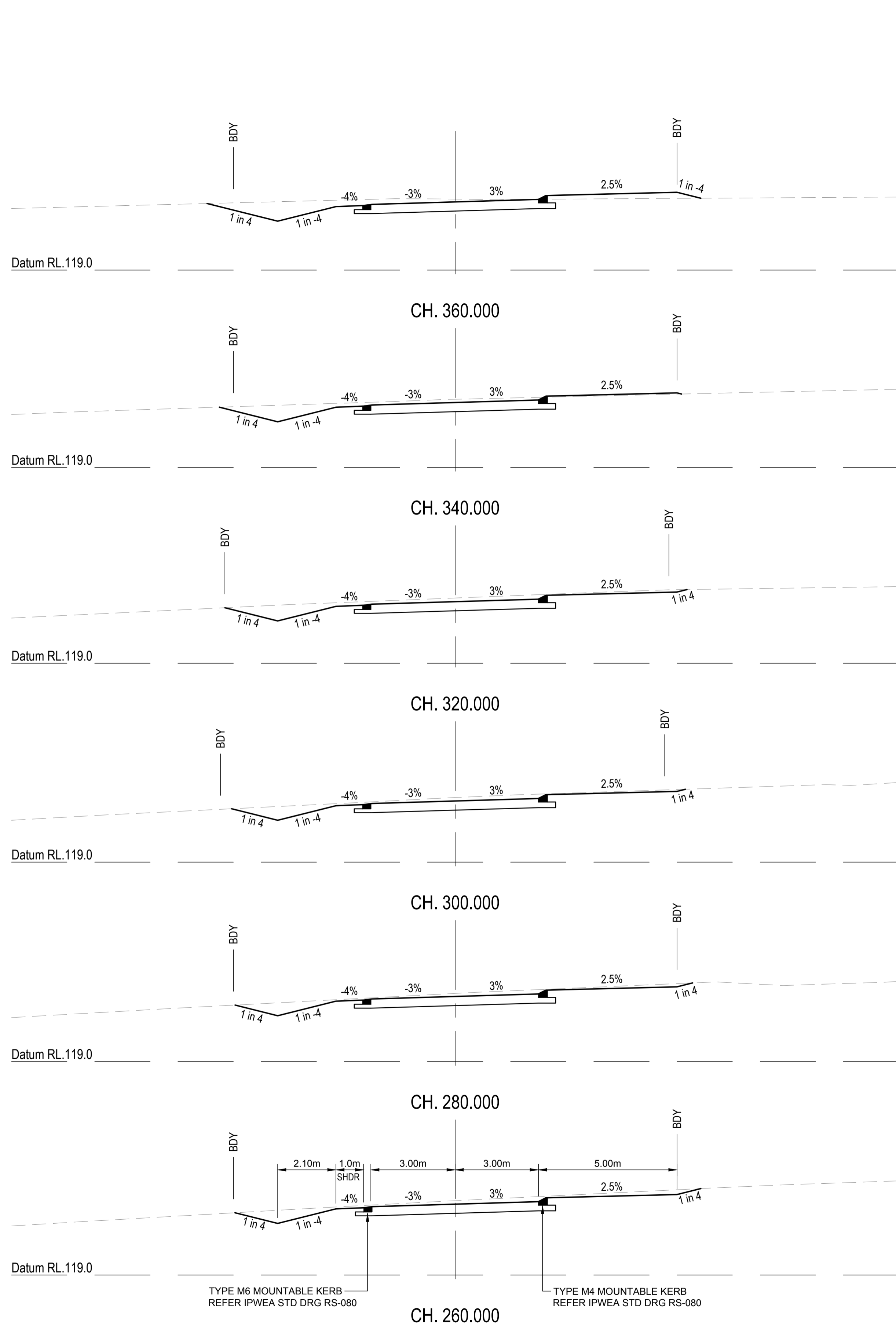
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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
NEWLAND PLACE - SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4454	REVISION 0	



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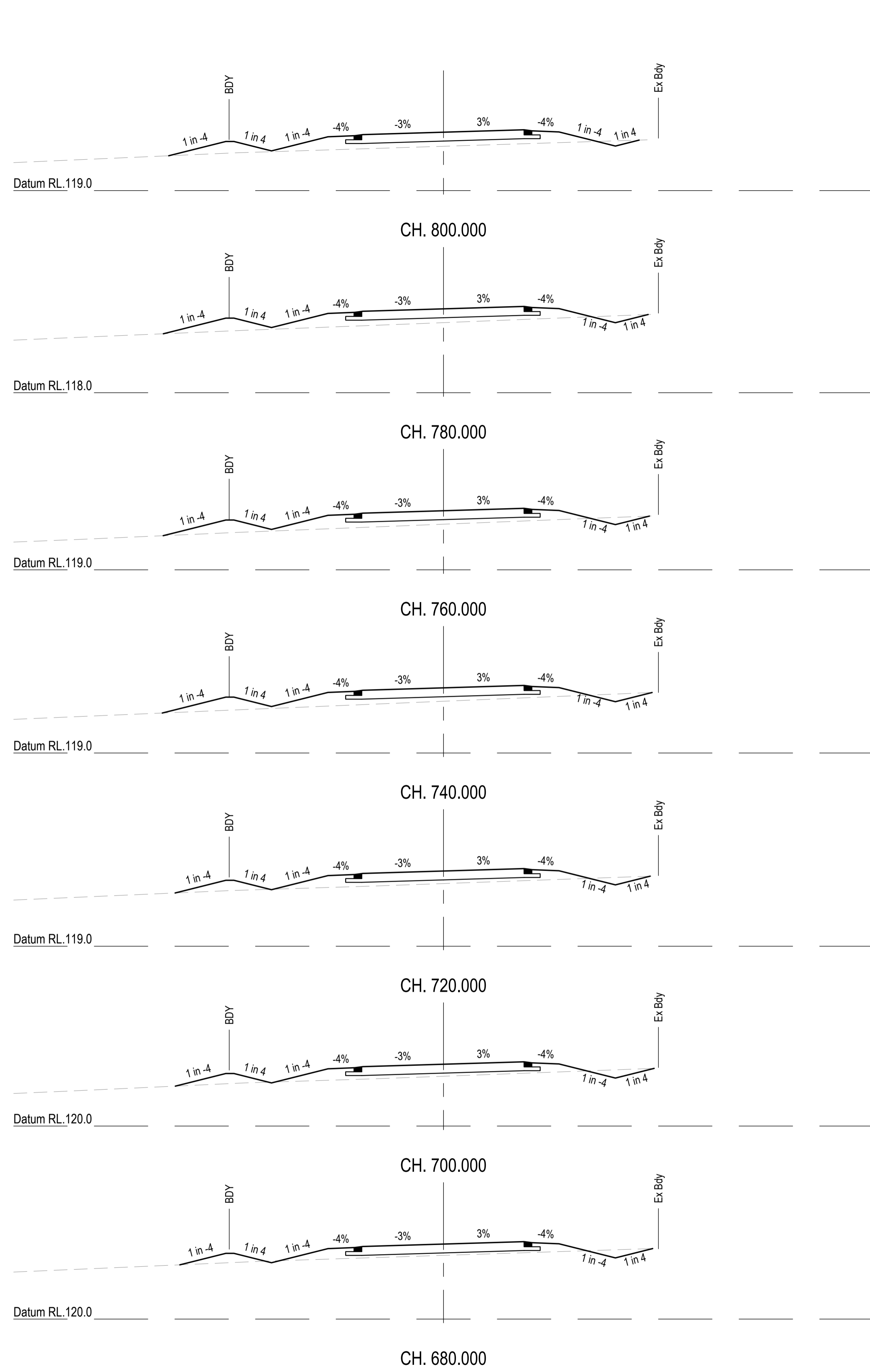
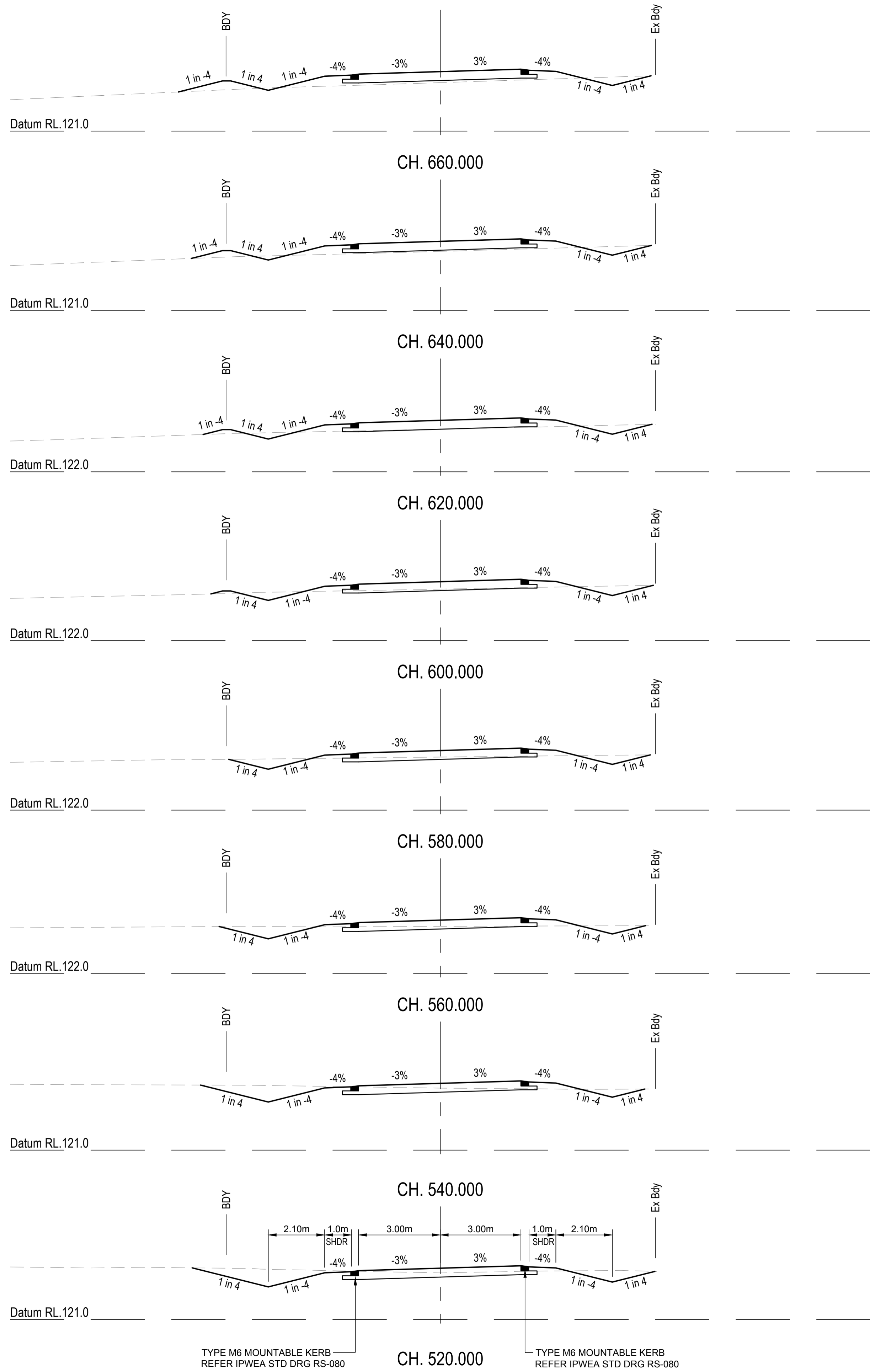
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SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
NEWLAND PLACE - SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4455	REVISION 0	



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No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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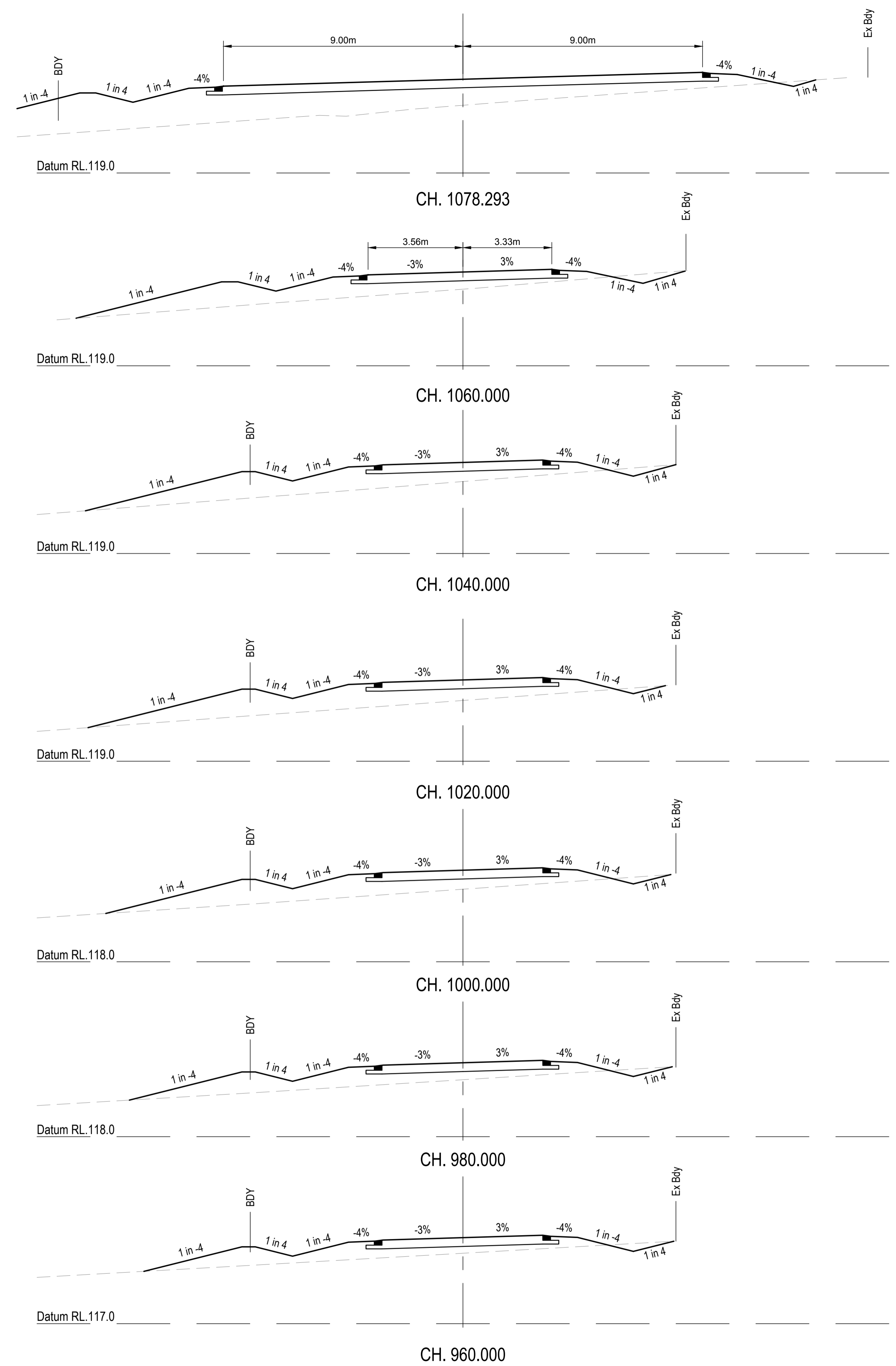
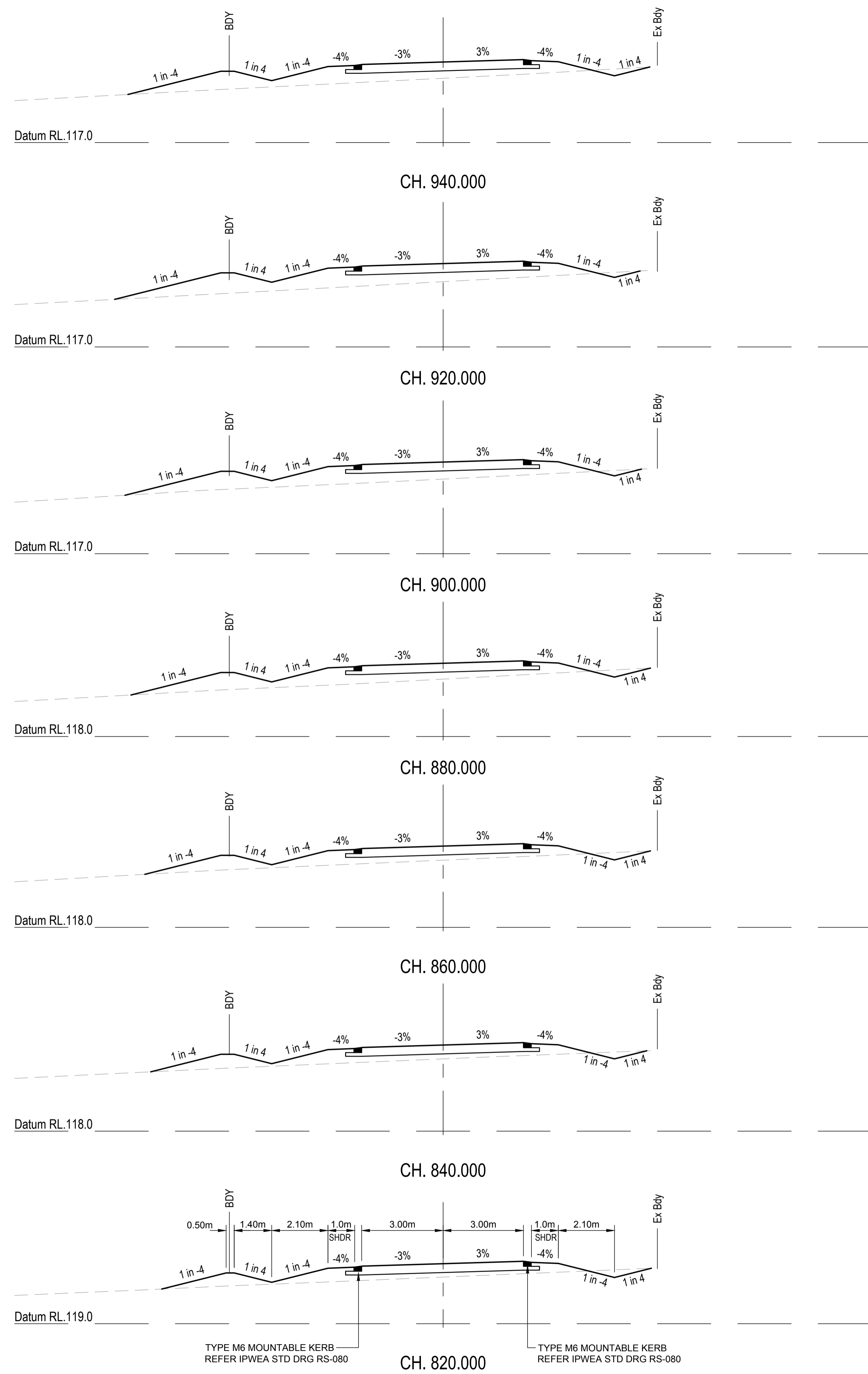
SCALE

 SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
 NEWLAND PLACE - SHEET 3

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4456	0	



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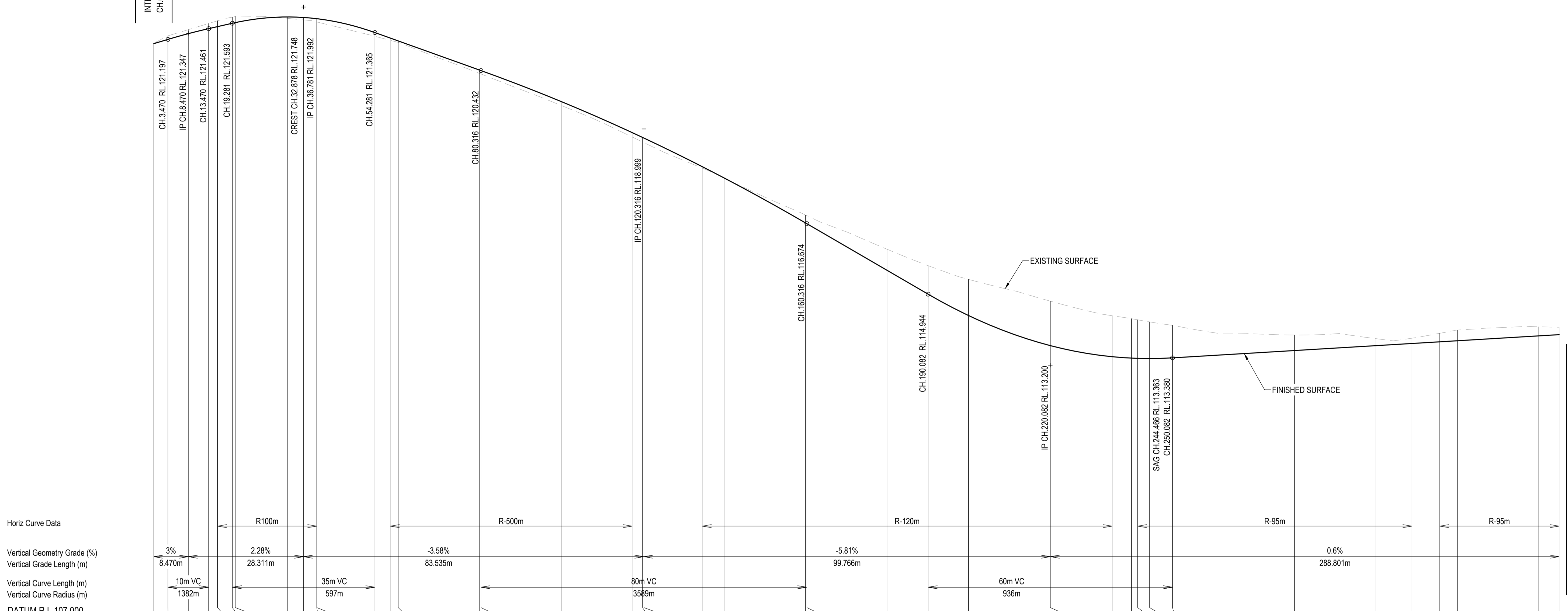
SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
NEWLAND PLACE - SHEET 4

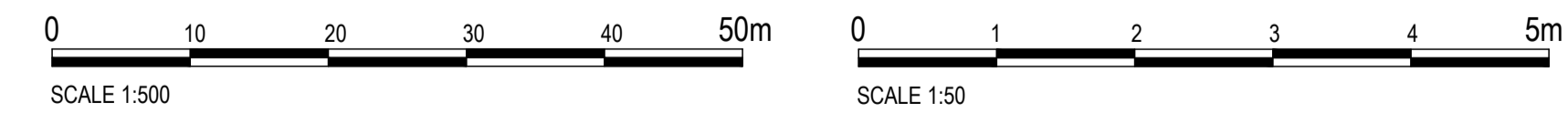
DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4457	REVISION 0	

INTERSECTION - NEWLAND PLACE
CH.0.000



CHAINAGE	0.000	3.470	8.470	13.470	15.650	19.281	20.000	32.878	36.781	40.000	40.021	54.281	58.038	60.000	80.000	80.316	100.000	117.428	120.000	120.316	134.629	140.000	160.000	160.316	180.000	190.082	200.000	220.000	220.082	235.258	240.000	241.529	244.466	250.082	260.000	280.000	300.000	308.860	315.692	320.000	340.000	345.000
NATURAL SURFACE LEVELS	121.103	121.285	121.436	121.588	121.654	121.743	121.757	121.713	121.676	121.626	121.625	121.274	121.175	121.123	120.361	120.348	119.576	118.802	118.679	118.664	118.038	117.795	116.886	116.871	116.047	115.643	115.307	114.775	114.772	114.415	114.343	114.314	114.263	114.178	114.002	113.942	113.853	113.863	113.983	114.063	114.143	114.132
CUT / FILL DEPTH	-0.010	-0.087	-0.098	-0.127	-0.143	-0.150	-0.147	0.035	0.060	0.080	0.080	0.091	0.056	0.037	0.082	0.084	0.096	0.108	0.112	0.112	0.037	0.002	-0.194	-0.197	-0.517	-0.700	-0.887	-1.092	-1.091	-1.007	-0.969	-0.947	-0.900	-0.798	-0.563	-0.382	-0.173	-0.130	-0.209	-0.264	-0.223	-0.182
DESIGN SURFACE LEVELS	121.093	121.197	121.338	121.461	121.511	121.593	121.609	121.748	121.735	121.706	121.705	121.365	121.230	121.160	120.443	120.432	119.673	118.910	118.791	118.776	118.075	117.797	116.692	116.674	115.530	114.944	114.420	113.683	113.681	113.409	113.374	113.368	113.363	113.380	113.440	113.560	113.680	113.733	113.774	113.800	113.920	113.950

LONGITUDINAL SECTION - BURTON CRESCENT
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50



FOR CONTINUATION REFER DWG No. C4459

REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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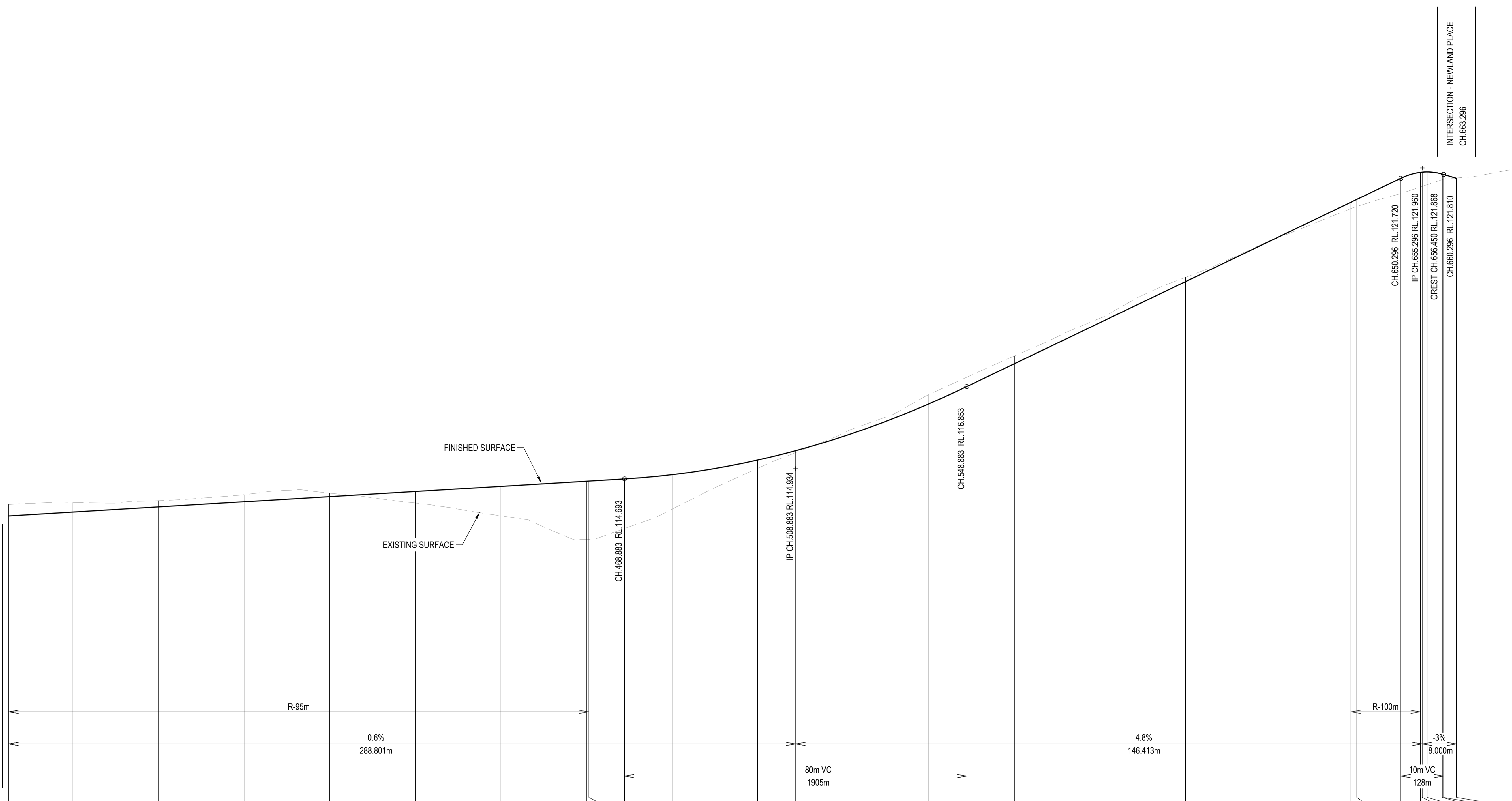
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PO BOX 4107 SPRINGFIELD QLD 4300
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
ROAD LONGITUDINAL SECTION
BURTON CRESCENT - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER
CK
DESIGNER
MP
SIGNATURE
SCALE
AS SHOWN
DATE
29/08/24
SHEET SIZE
A1
JOB No.
BR242001
DRAWING No.
C4458
REVISION
0

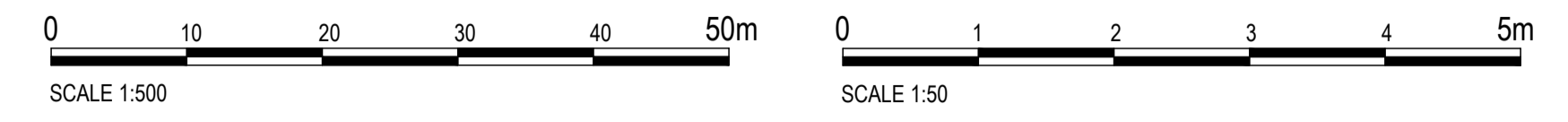
FOR CONTINUATION REFER DWG No. C4458

Horiz Curve Data
Vertical Geometry Grade (%)
Vertical Grade Length (m)
Vertical Curve Length (m)
Vertical Curve Radius (m)
DATUM R.L. 107.000



CHAINAGE	325.000	340.000	360.000	380.000	400.000	420.000	440.000	460.000	460.556	468.883	480.000	500.000	508.883	520.000	540.000	548.883	560.000	580.000	600.000	620.000	638.619	640.000	650.296	654.859	655.296	656.450	660.000	660.296	663.296
NATURAL SURFACE LEVELS	114.084	114.143	114.186	114.326	114.360	114.130	113.831	113.281	113.281	113.534	113.988	114.942	115.310	115.764	116.664	117.071	117.568	118.449	119.406	120.278	121.014	121.061	121.363	121.517	121.532	121.571	121.691	121.701	121.729
CUT / FILL DEPTH	-0.285	-0.223	-0.146	-0.166	-0.080	0.270	0.689	1.360	1.362	1.159	0.805	0.192	0.044	-0.078	-0.216	-0.218	-0.182	-0.102	-0.100	-0.012	0.146	0.165	0.357	0.341	0.331	0.297	0.128	0.110	-0.009
DESIGN SURFACE LEVELS	113.830	113.920	114.040	114.160	114.280	114.400	114.520	114.640	114.643	114.693	114.793	115.134	115.353	115.686	116.448	116.853	117.387	118.347	119.306	120.266	121.160	121.226	121.720	121.858	121.863	121.868	121.819	121.810	121.720

LONGITUDINAL SECTION - BURTON CRESCENT
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50



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No.	REVISION DESCRIPTION
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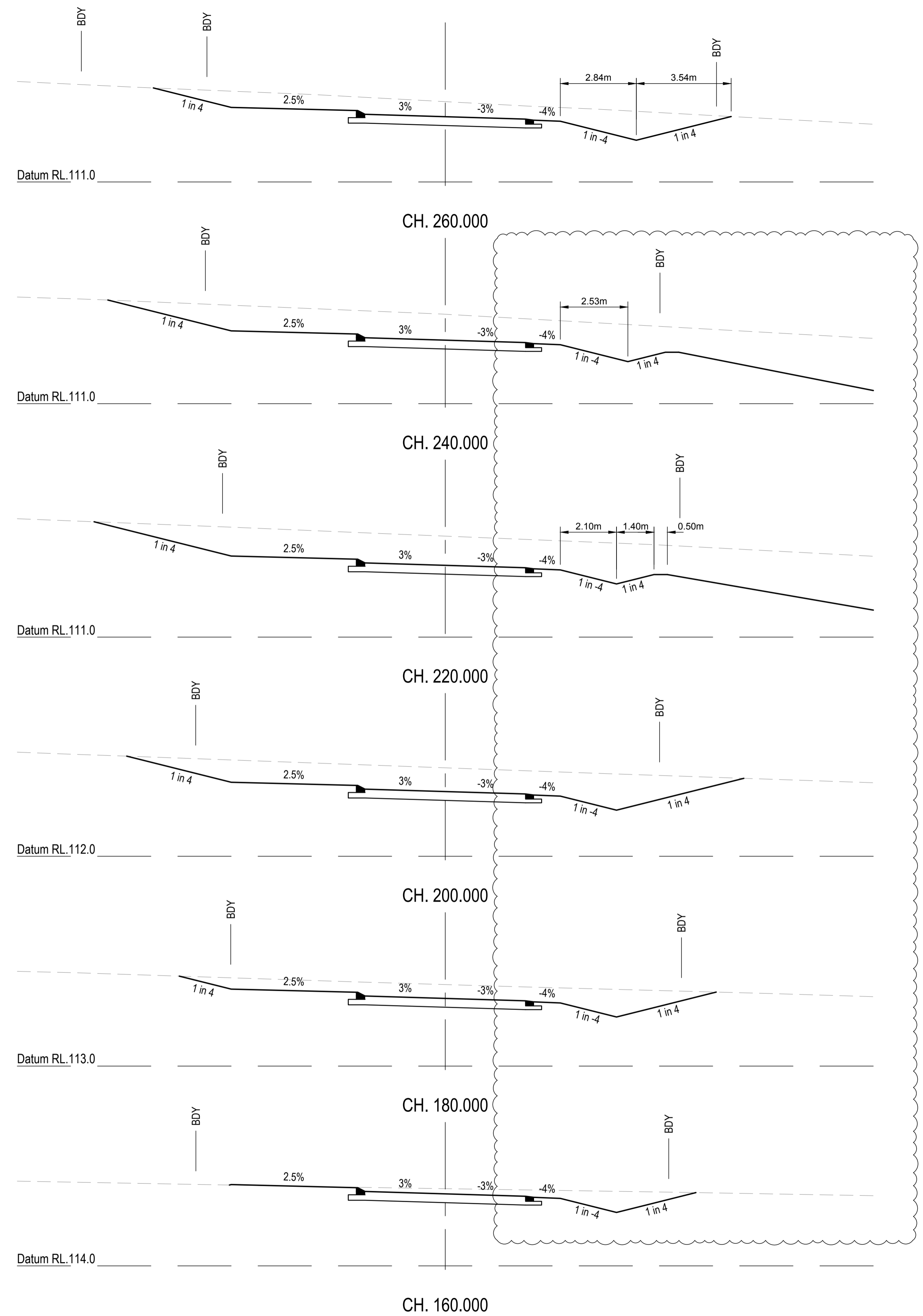
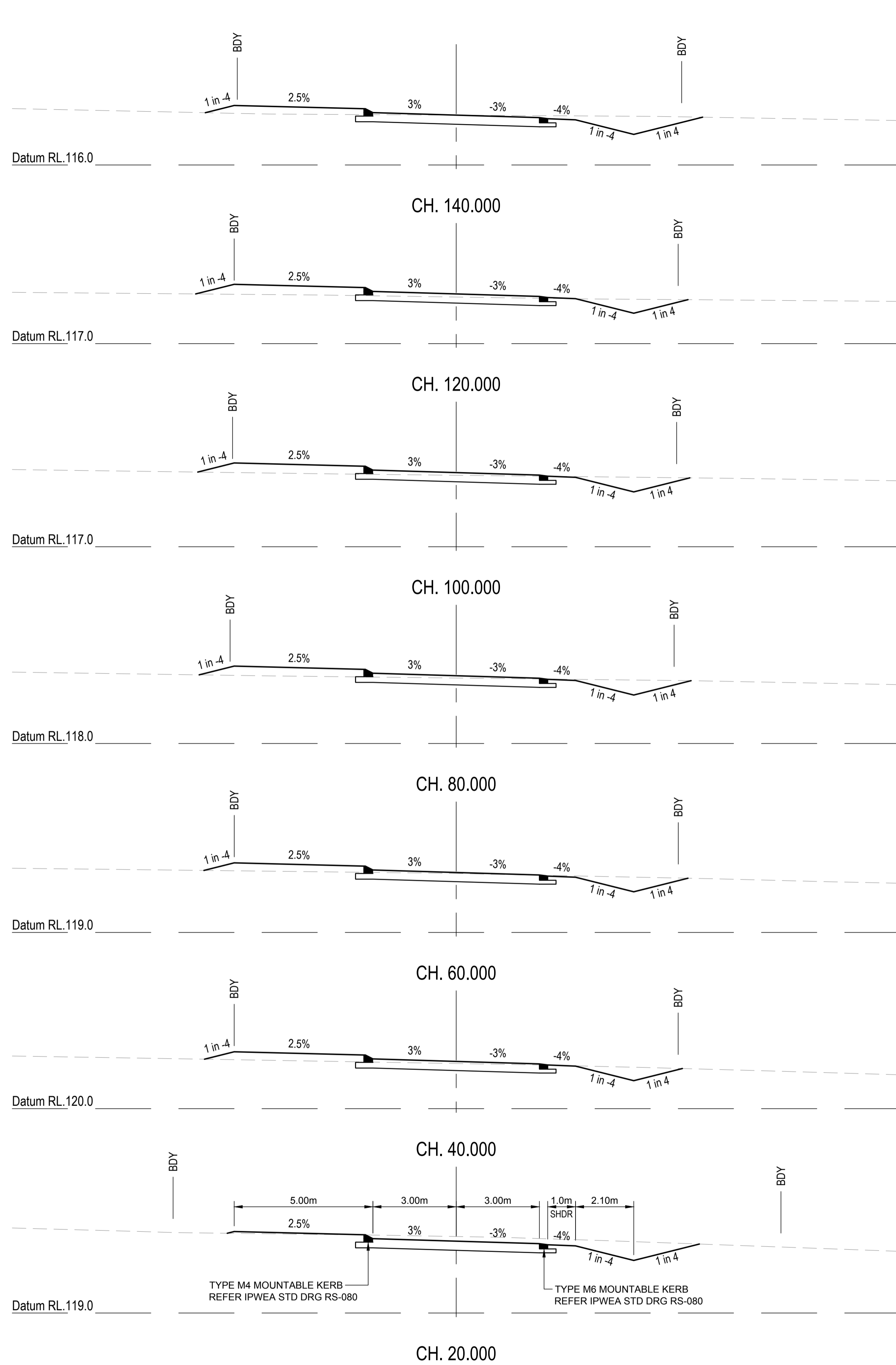
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CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
ROAD LONGITUDINAL SECTION
BURTON CRESCENT - SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER: CK
DESIGNER: MP
SIGNATURE: [Signature]
DRAFTSPERSON: MP
SCALE: AS SHOWN
DATE: 29/08/24
SHEET SIZE: A1
JOB No.: BR242001
DRAWING No.: C4459
REVISION: 0



2

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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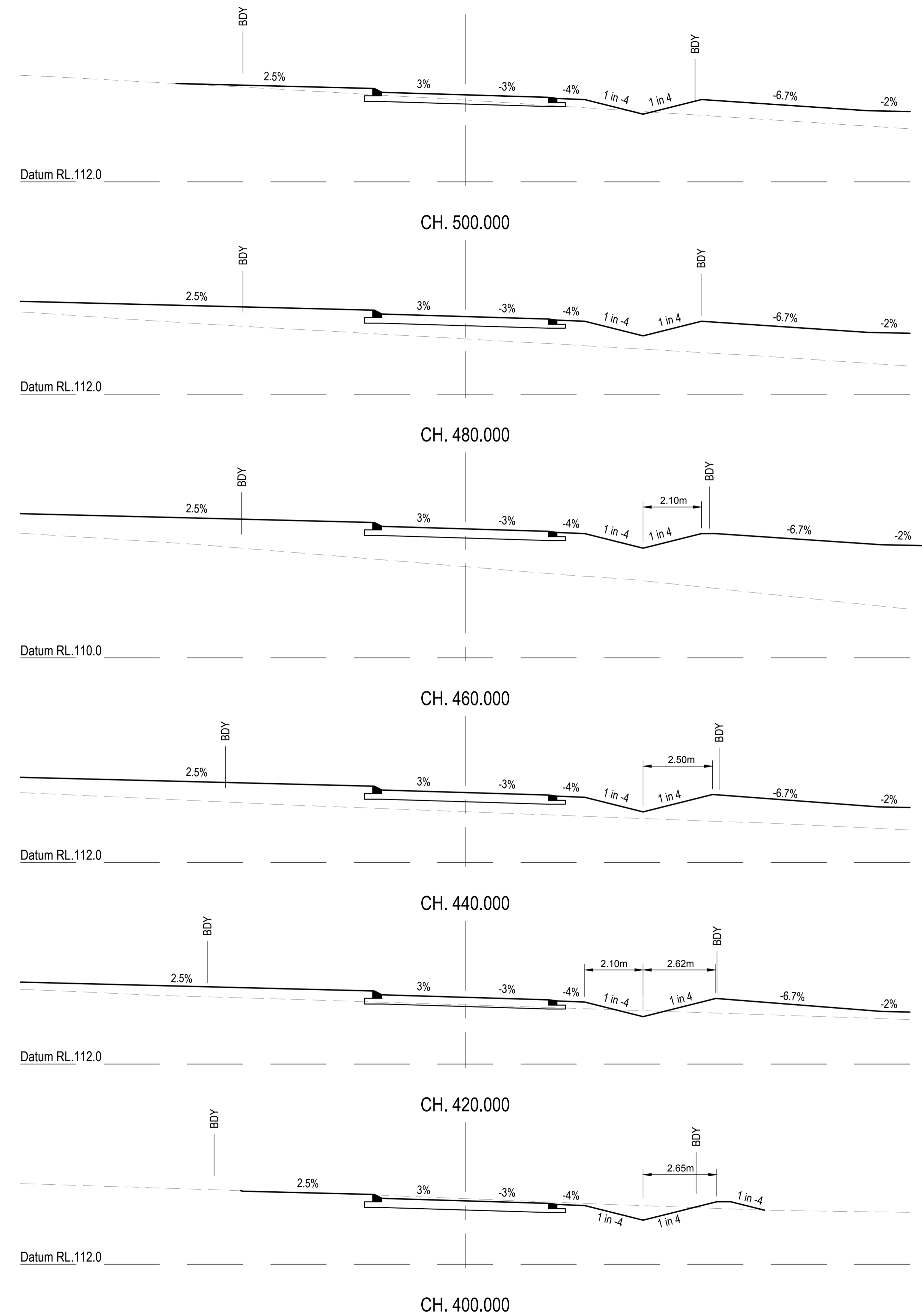
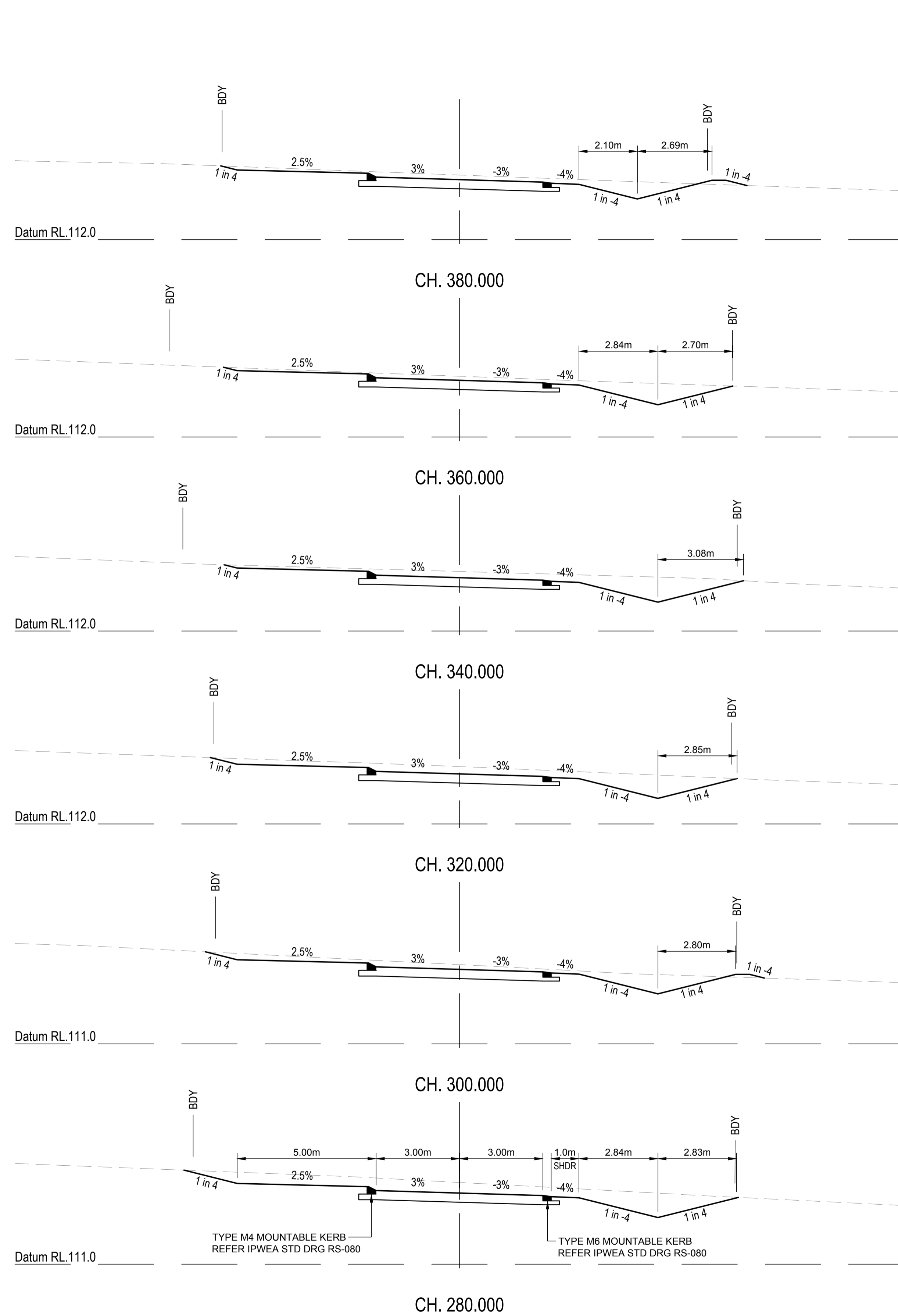
SCALE

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PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
 BURTON CRESCENT - SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4460	REVISION 2	



REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION

PARKLAKE
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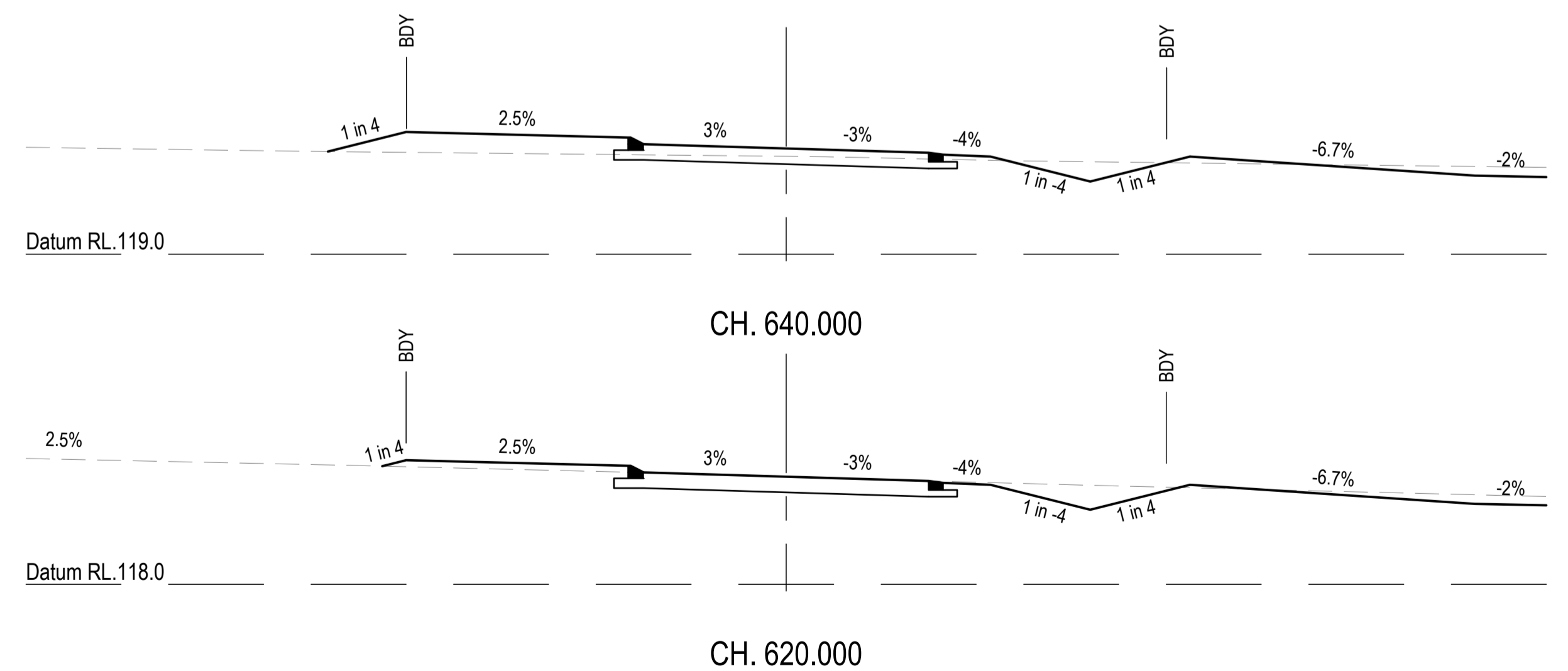
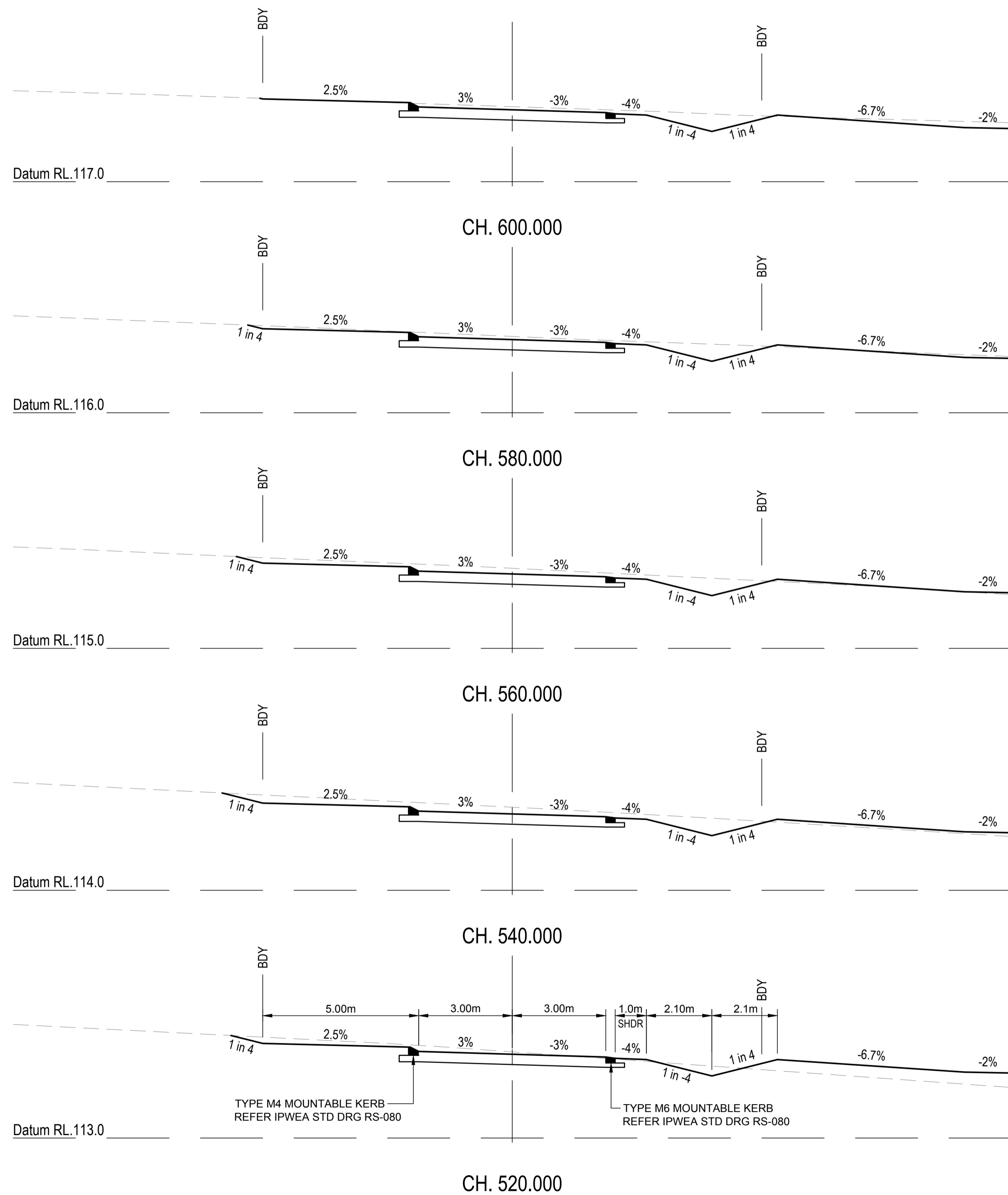
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SCALE
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PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
BURTON CRESCENT - SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4461	REVISION 0	



REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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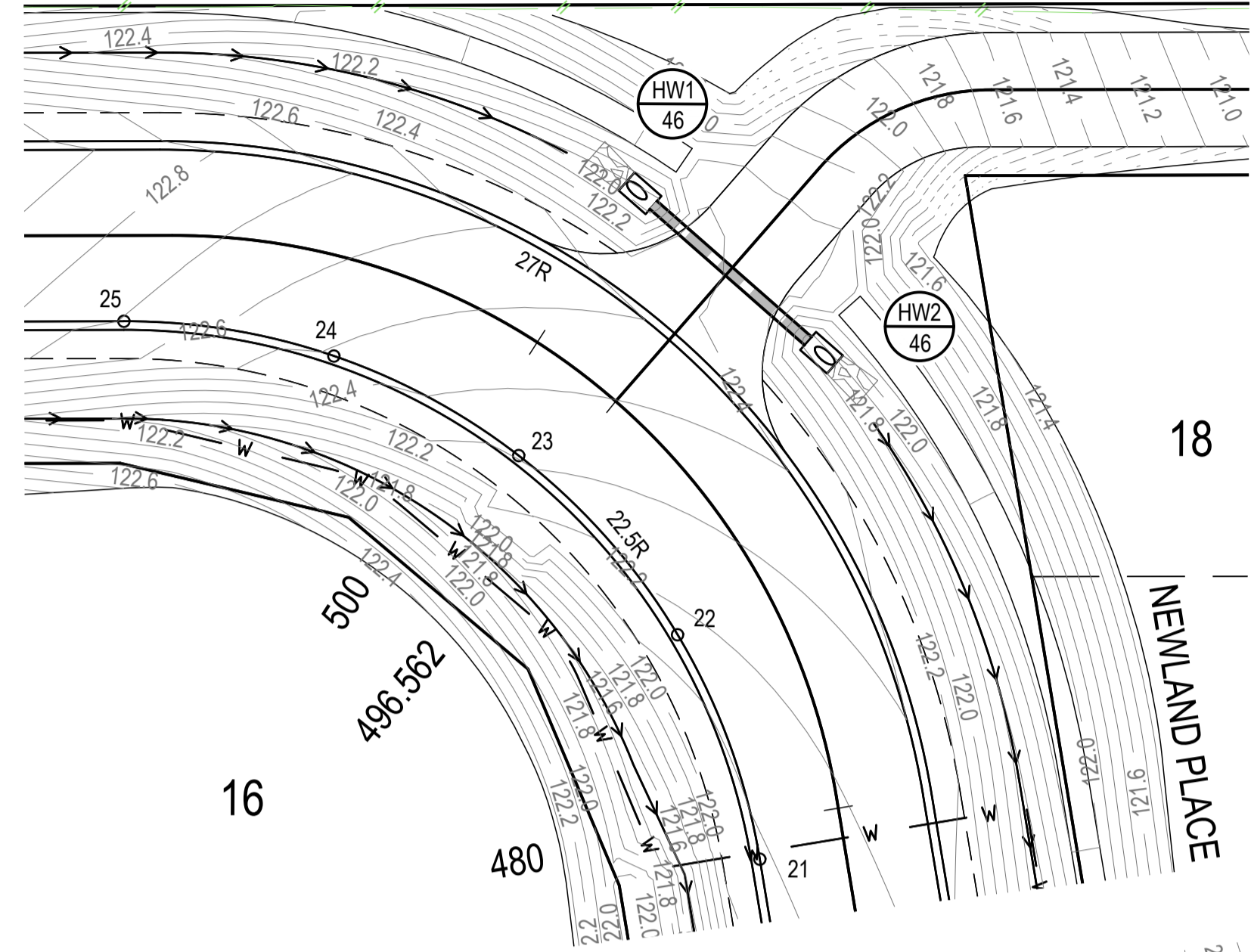
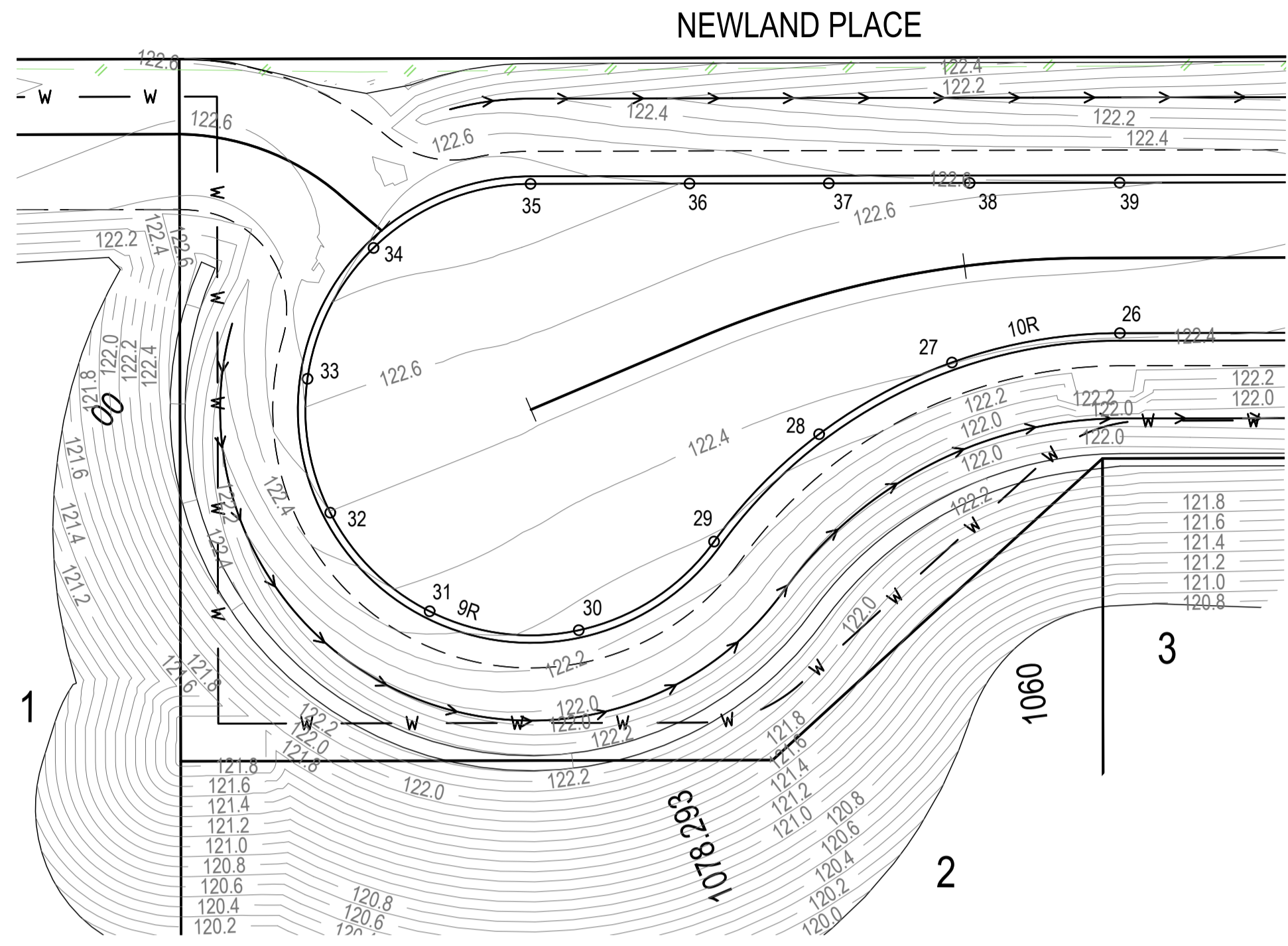
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PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
ROAD CROSS SECTIONS
BURTON CRESCENT - SHEET 3

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4462	0	

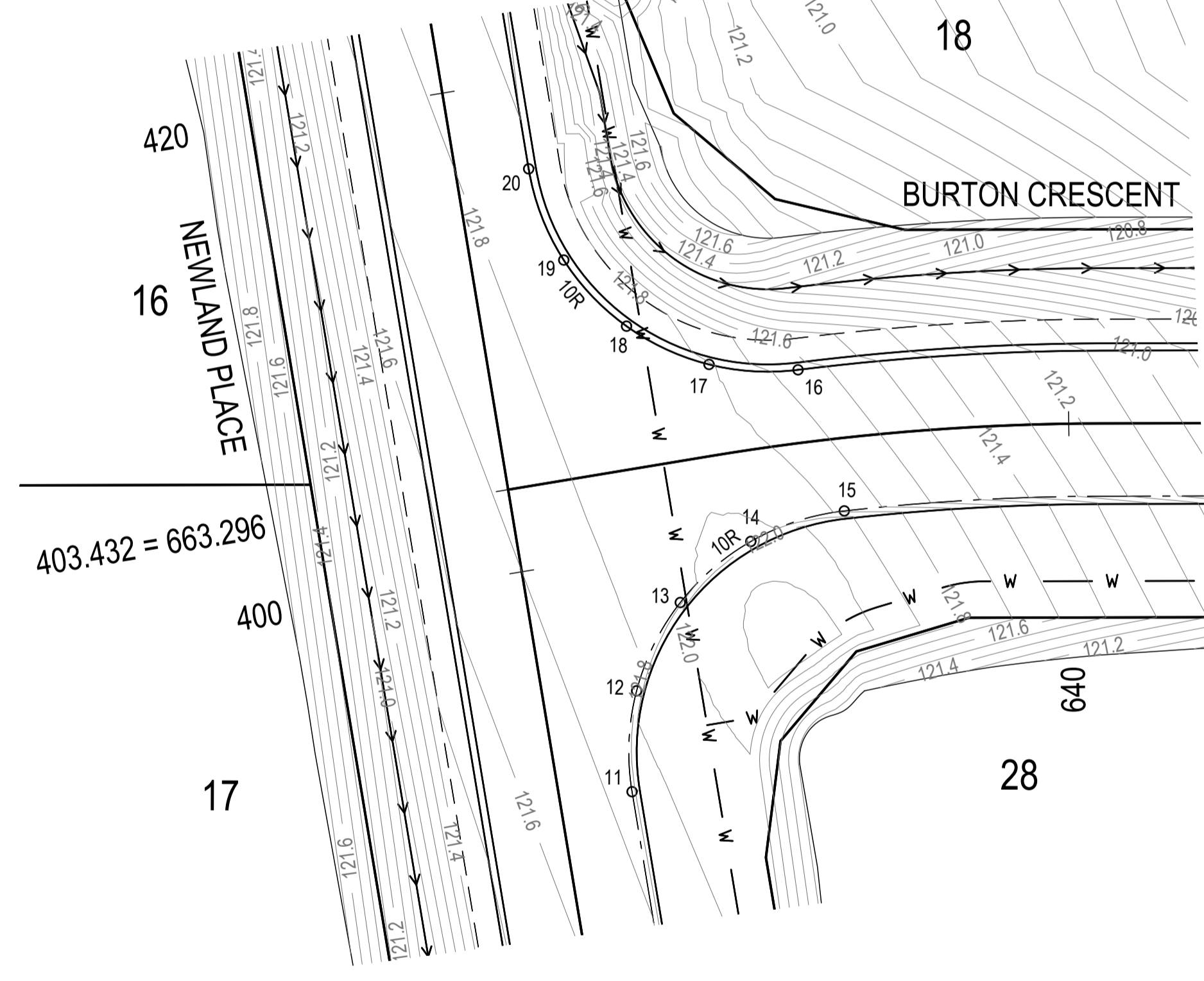
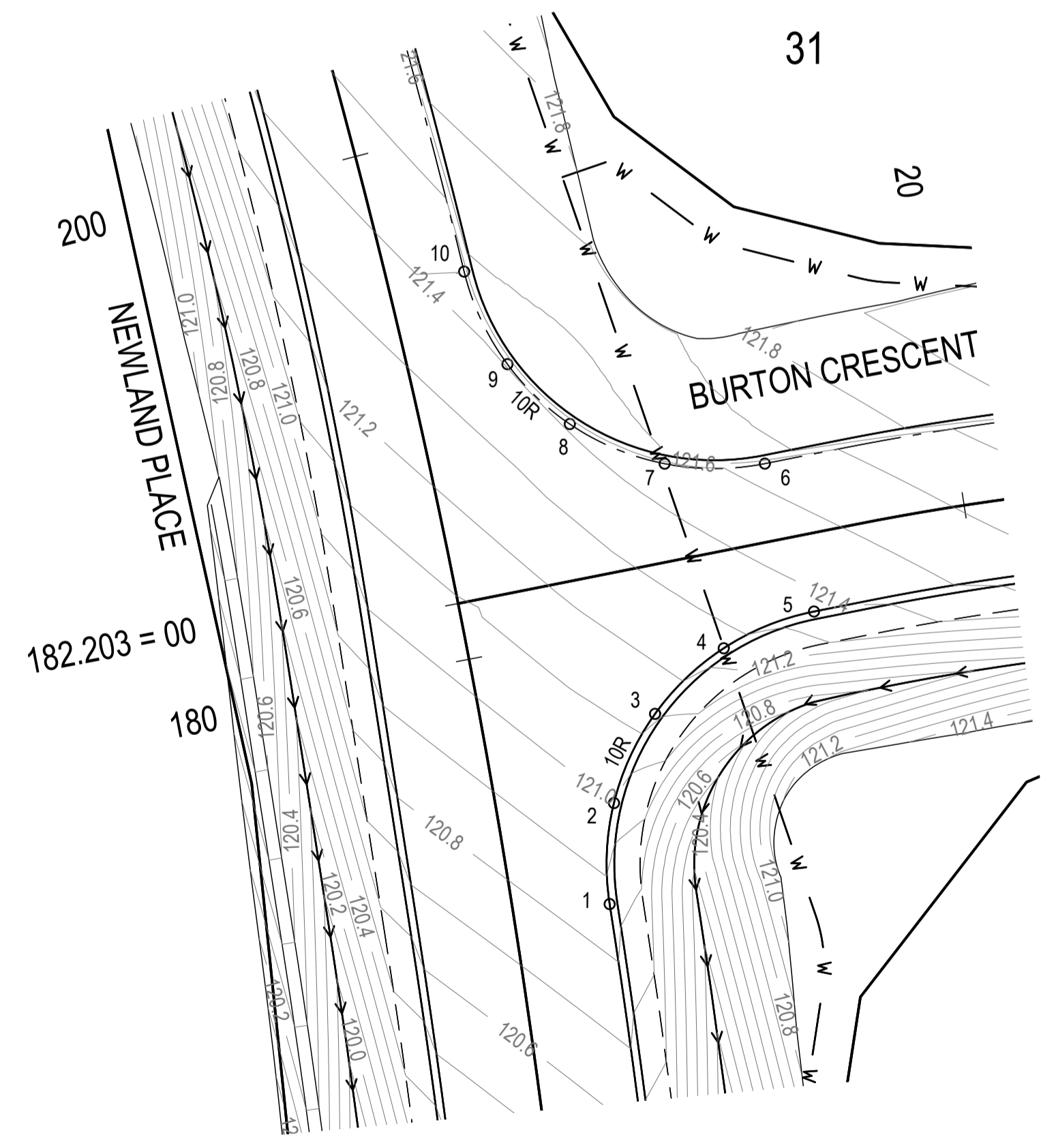


EXISTING		PROPOSED	
	FENCE		OPEN DRAIN
	OPEN DRAIN		MOUNTABLE KERB TYPE M4
	MOUNTABLE KERB TYPE M4		MOUNTABLE KERB TYPE M6
	ROAD EDGE BITUMEN		CONTOUR (0.1m)
	TREE TO REMAIN		ROAD EDGE BITUMEN
	TREE TO BE REMOVED		ROAD SHOULDER
			DRAINAGE

SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS		
DRAINAGE (unknown dia.)		
DRAINAGE (known dia.)		
ELECTRICITY		
O/H ELECTRICITY & POLE		
GAS		
WATER MAIN		

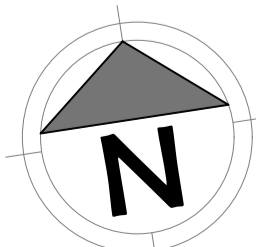
(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.



KERB LIP SETOUT / LEVELS

POINT	EASTING	NORTHING	LEVEL
1	430164.548	6954708.994	120.867
2	430165.305	6954712.842	120.993
3	430167.403	6954716.022	121.137
4	430170.422	6954718.135	121.268
5	430174.102	6954719.016	121.371
6	430173.084	6954724.976	121.534
7	430169.241	6954725.561	121.458
8	430165.833	6954727.639	121.410
9	430163.794	6954730.300	121.404
10	430162.676	6954734.106	121.449
11	430142.688	6954928.016	121.732
12	430143.502	6954932.097	121.780
13	430145.832	6954935.424	121.872
14	430149.086	6954937.472	121.921
15	430153.085	6954938.135	121.777
16	430152.080	6954944.172	121.654
17	430148.487	6954944.947	121.811
18	430145.364	6954947.020	121.895
19	430143.220	6954950.105	121.882
20	430142.358	6954954.041	121.888
21	430135.570	6955016.310	-999.000
22	430133.912	6955024.505	-999.000
23	430129.367	6955031.540	-999.000
24	430123.505	6955035.960	-999.000
25	430116.429	6955038.273	-999.000
26	429583.846	6955118.654	-999.000
27	429577.048	6955118.511	122.407
28	429571.379	6955116.487	122.362
29	429566.589	6955112.889	122.291
30	429560.719	6955110.210	122.270
31	429554.954	6955111.856	122.368
32	429551.630	6955116.342	122.499
33	429551.539	6955121.756	122.626
34	429554.933	6955126.515	122.739
35	429561.510	6955128.093	122.766
36	429567.779	6955127.147	122.696
37	429573.271	6955126.318	122.648
38	429578.826	6955125.479	122.618
39	429584.742	6955124.586	122.605

REVISIONS:	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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 SCALE
 0 1 2 3 4 5 10m 15 20m
 SCALE 1:200

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
INTERSECTION DETAILS

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4480	REVISION 0	

LEGEND:

- STORMWATER CATCHMENT
- HW1/2**
1.2713ha STORMWATER CATCHMENT NAME
- TABLE DRAIN FLOW CALCULATION LOCATION

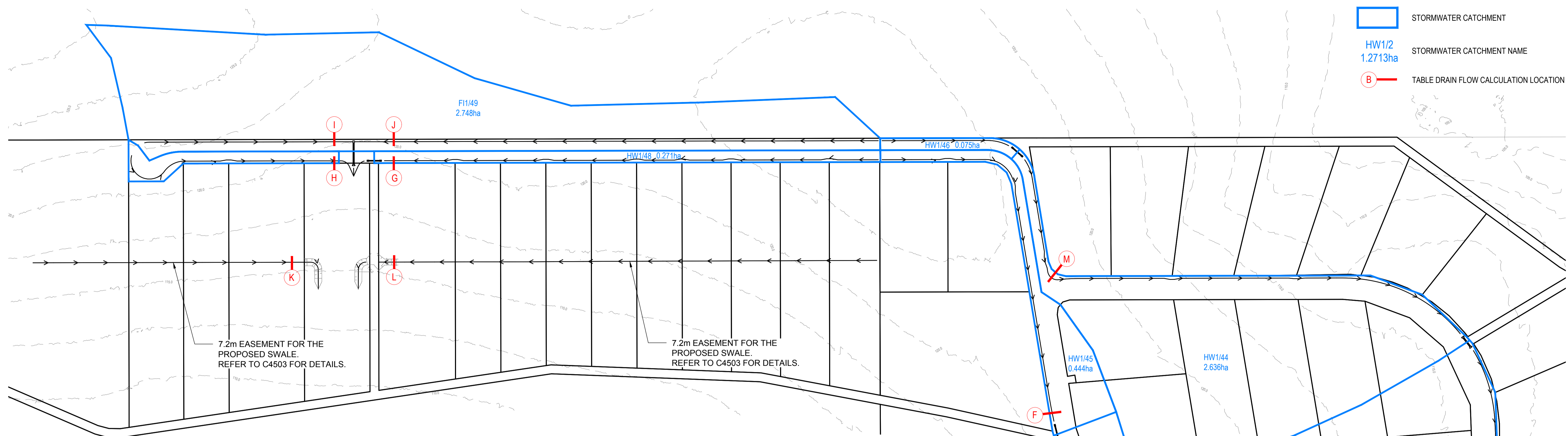


TABLE DRAIN CALCULATIONS - LOCATION K
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 2.174ha
Mannings n = 0.03
Longitudinal Grade = 0.60%
TC = 14.6 minutes
Q₂ Flow = 851l/s
Q₂ Depth of flow = 402mm
Q₃₀ Freeboard = 198mm
Q₃₀ Velocity = 0.88m/s
Depth x Velocity Ratio = 0.35

TABLE DRAIN CALCULATIONS - LOCATION L
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 2.989ha
Mannings n = 0.03
Longitudinal Grade = 0.91%
TC = 14.6 minutes
Q₂ Flow = 1170l/s
Q₂ Depth of flow = 405mm
Q₃₀ Freeboard = 195mm
Q₃₀ Velocity = 1.09m/s
Depth x Velocity Ratio = 0.44

TABLE DRAIN CALCULATIONS - LOCATION M
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.077ha
Mannings n = 0.03
Longitudinal Grade = 0.6%
TC = 5 minutes
Q₂ Flow = 18l/s
Q₂ Depth of flow = 110mm
Q₂ Freeboard = 440mm
Q₂ Velocity = 0.37m/s
Depth x Velocity Ratio = 0.04

Q₃₀ Flow = 37l/s
Q₃₀ Depth of flow = 145mm
Q₃₀ Freeboard = 405mm
Q₃₀ Velocity = 0.44m/s
Depth x Velocity Ratio = 0.07

TABLE DRAIN CALCULATIONS - LOCATION A
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.342ha
Mannings n = 0.03
Longitudinal Grade = 4%
TC = 5 minutes
Q₂ Flow = 52l/s
Q₂ Depth of flow = 116mm
Q₂ Freeboard = 234mm
Q₂ Velocity = 1.0m/s
Depth x Velocity Ratio = 0.12

Q₃₀ Flow = 164l/s
Q₃₀ Depth of flow = 178mm
Q₃₀ Freeboard = 172mm
Q₃₀ Velocity = 1.3m/s
Depth x Velocity Ratio = 0.23

TABLE DRAIN CALCULATIONS - LOCATION C
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.087ha
Mannings n = 0.03
Longitudinal Grade = 1.9%
TC = 14.1 minutes
Q₂ Flow = 117l/s
Q₂ Depth of flow = 181mm
Q₂ Freeboard = 369mm
Q₂ Velocity = 0.9m/s
Depth x Velocity Ratio = 0.17

Q₃₀ Flow = 369l/s
Q₃₀ Depth of flow = 277mm
Q₃₀ Freeboard = 273mm
Q₃₀ Velocity = 1.2m/s
Depth x Velocity Ratio = 0.33

TABLE DRAIN CALCULATIONS - LOCATION E
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.239ha
Mannings n = 0.03
Longitudinal Grade = 0.5%
TC = 5 minutes
Q₂ Flow = 36l/s
Q₂ Depth of flow = 150mm
Q₂ Freeboard = 400mm
Q₂ Velocity = 0.4m/s
Depth x Velocity Ratio = 0.06

Q₃₀ Flow = 115l/s
Q₃₀ Depth of flow = 230mm
Q₃₀ Freeboard = 320mm
Q₃₀ Velocity = 0.6m/s
Depth x Velocity Ratio = 0.14

TABLE DRAIN CALCULATIONS - LOCATION G
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.271ha
Mannings n = 0.03
Longitudinal Grade = 1.3%
TC = 5 minutes
Q₂ Flow = 41l/s
Q₂ Depth of flow = 130mm
Q₂ Freeboard = 220mm
Q₂ Velocity = 0.5m/s
Depth x Velocity Ratio = 0.07

Q₃₀ Flow = 130l/s
Q₃₀ Depth of flow = 201mm
Q₃₀ Freeboard = 149mm
Q₃₀ Velocity = 0.8m/s
Depth x Velocity Ratio = 0.16

TABLE DRAIN CALCULATIONS - LOCATION I
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.010ha
Mannings n = 0.03
Longitudinal Grade = 1.3%
TC = 10.6 minutes
Q₂ Flow = 123l/s
Q₂ Depth of flow = 197mm
Q₂ Freeboard = 353mm
Q₂ Velocity = 0.8m/s
Depth x Velocity Ratio = 0.16

Q₃₀ Flow = 181l/s
Q₃₀ Depth of flow = 269mm
Q₃₀ Freeboard = 281mm
Q₃₀ Velocity = 1.0m/s
Depth x Velocity Ratio = 0.27

TABLE DRAIN CALCULATIONS - LOCATION B
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.078ha
Mannings n = 0.03
Longitudinal Grade = 4%
TC = 13.5 minutes
Q₂ Flow = 119l/s
Q₂ Depth of flow = 158mm
Q₂ Freeboard = 392mm
Q₂ Velocity = 1.2m/s
Depth x Velocity Ratio = 0.19

Q₃₀ Flow = 372l/s
Q₃₀ Depth of flow = 242mm
Q₃₀ Freeboard = 308mm
Q₃₀ Velocity = 1.8m/s
Depth x Velocity Ratio = 0.44

TABLE DRAIN CALCULATIONS - LOCATION D
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 4.074ha
Mannings n = 0.03
Longitudinal Grade = 0.56%
TC = 16.2 minutes
Q₂ Flow = 410l/s
Q₂ Depth of flow = 362mm
Q₂ Freeboard = 0mm
Q₂ Velocity = 0.9m/s
Depth x Velocity Ratio = 0.31

Q₃₀ Flow = 1296 l/s
Q₃₀ Depth of flow = 558mm
Q₃₀ Freeboard = 152mm
Q₃₀ Velocity = 1.0m/s
Depth x Velocity Ratio = 0.56

TABLE DRAIN CALCULATIONS - LOCATION F
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.443ha
Mannings n = 0.03
Longitudinal Grade = 0.5%
TC = 5 minutes
Q₂ Flow = 67l/s
Q₂ Depth of flow = 187mm
Q₂ Freeboard = 363mm
Q₂ Velocity = 0.5m/s
Depth x Velocity Ratio = 0.09

Q₃₀ Flow = 212l/s
Q₃₀ Depth of flow = 289mm
Q₃₀ Freeboard = 261mm
Q₃₀ Velocity = 0.6m/s
Depth x Velocity Ratio = 0.19

TABLE DRAIN CALCULATIONS - LOCATION H
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 0.147ha
Mannings n = 0.03
Longitudinal Grade = 1.2%
TC = 5 minutes
Q₂ Flow = 22l/s
Q₂ Depth of flow = 105mm
Q₂ Freeboard = 245mm
Q₂ Velocity = 0.5m/s
Depth x Velocity Ratio = 0.05

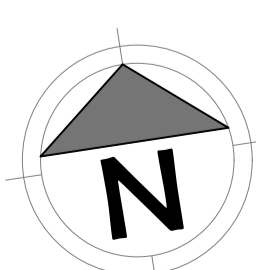
Q₃₀ Flow = 70l/s
Q₃₀ Depth of flow = 162mm
Q₃₀ Freeboard = 188mm
Q₃₀ Velocity = 0.7m/s
Depth x Velocity Ratio = 0.11

TABLE DRAIN CALCULATIONS - LOCATION J
DESIGN STORM AS PER QUDM TABLE 7.3.1

Area = 1.738ha
Mannings n = 0.03
Longitudinal Grade = 1.3%
TC = 10.6 minutes
Q₂ Flow = 212l/s
Q₂ Depth of flow = 245mm
Q₂ Freeboard = 305mm
Q₂ Velocity = 0.9m/s
Depth x Velocity Ratio = 0.22

Q₃₀ Flow = 483l/s
Q₃₀ Depth of flow = 334mm
Q₃₀ Freeboard = 216mm
Q₃₀ Velocity = 1.1m/s
Depth x Velocity Ratio = 0.37

NO.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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SCALE
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SCALE 1:1000

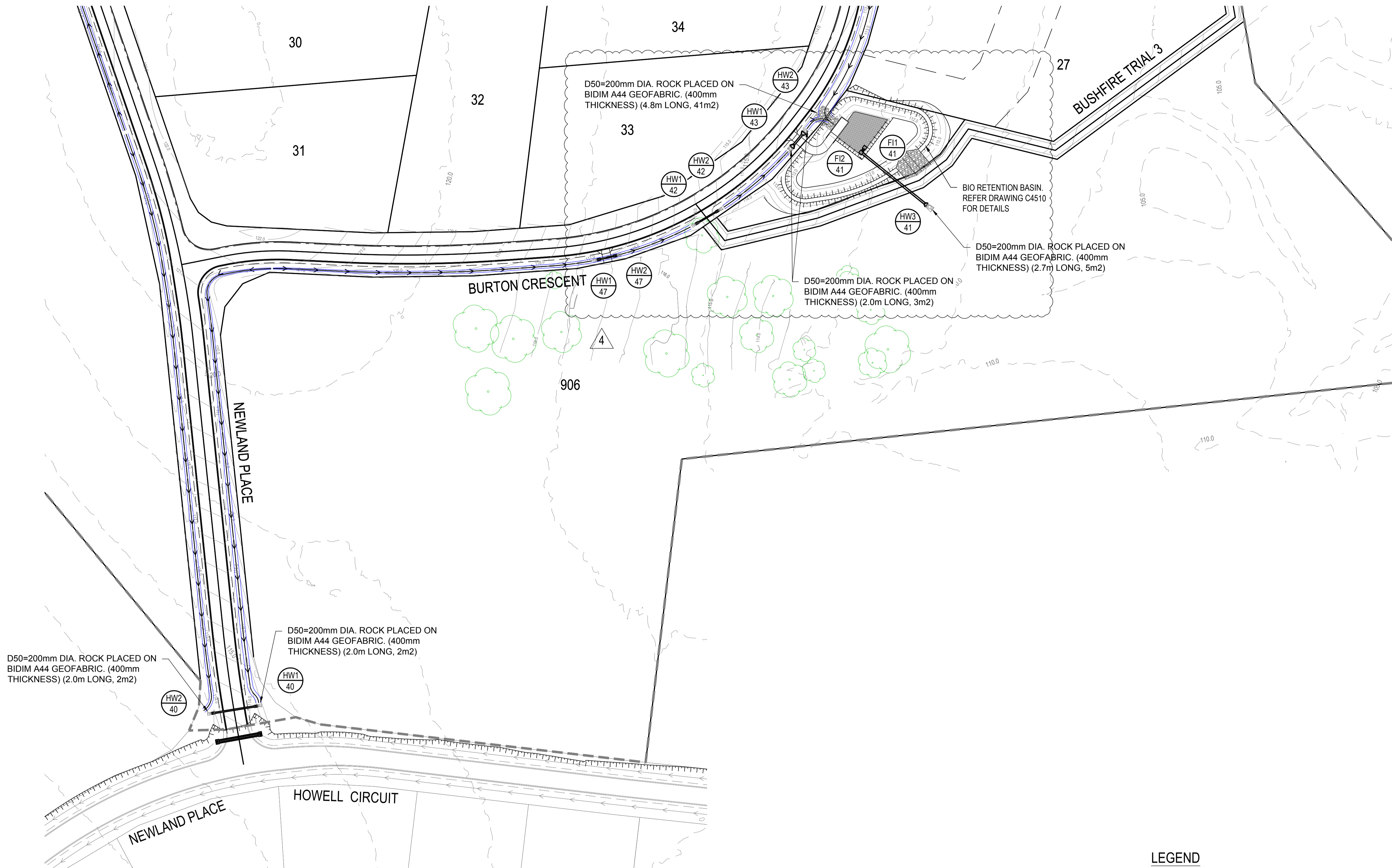
PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
DRAINAGE CATCHMENT PLAN

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4500	SHEET SIZE A1
		REVISION 2

FOR CONTINUATION REFER DWG No. C4502



SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

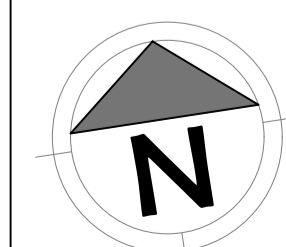
LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- KERB AND CHANNEL	--- MOUNTABLE KERB TYPE M6
--- KERB ONLY	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- Q50 FLOODED WIDTH

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:

No.	REVISION DESCRIPTION	DRAWN	DATE
4	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
3	DRIVEWAY ADDED	MP	17/12/24
2	LINE 47 UPDATED	MP	13/11/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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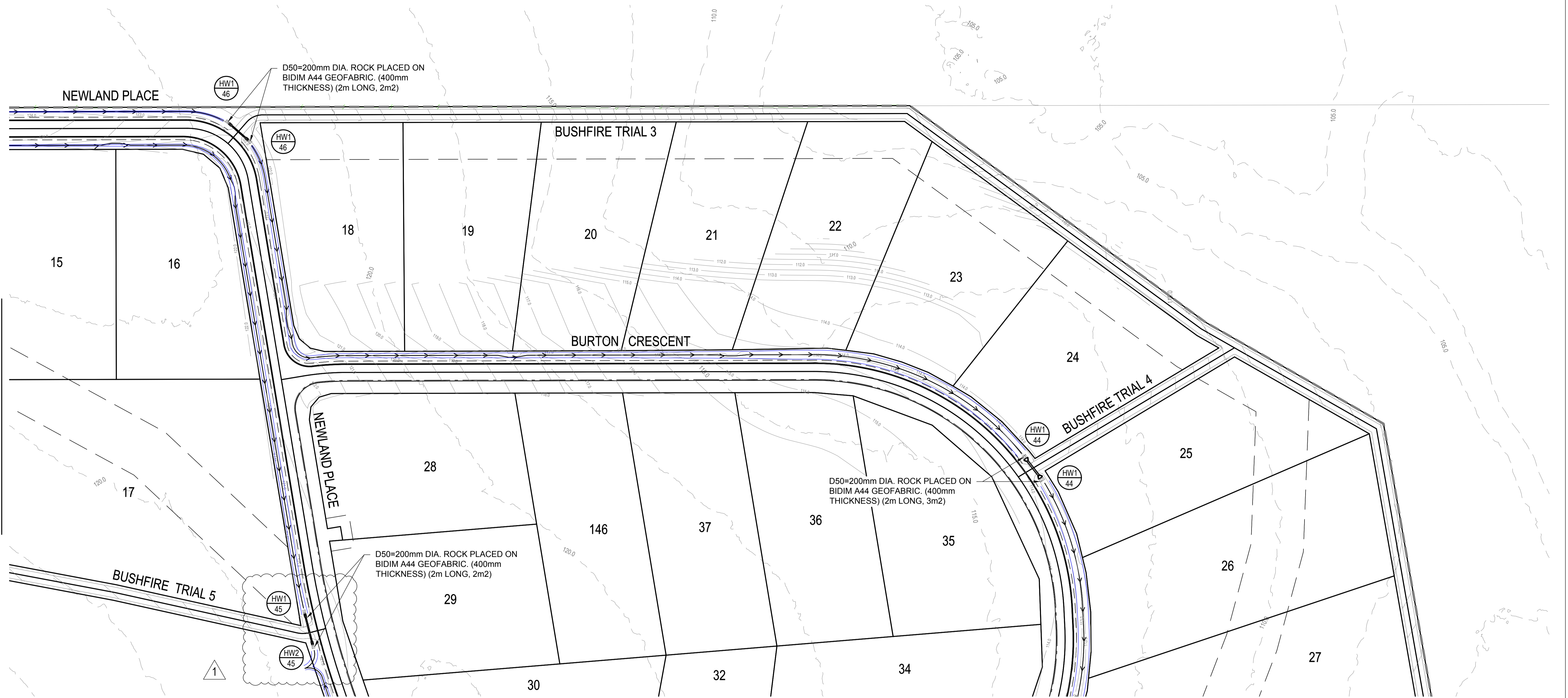
CLIENT
PARK LAKE ADARE PTY LTD
 PO BOX 4107 SPRINGFIELD QLD 4300
 SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
DRAINAGE PLAN SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4501	4	

OR CONTINUATION REFER DWG No. C4503



FOR CONTINUATION REFER DWG No. C4501

SERVICES (PUP) LEGEND

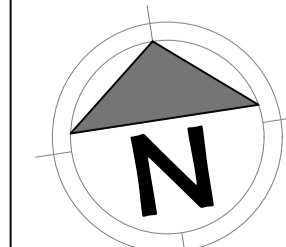
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

LEGEND

EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- KERB AND CHANNEL	--- MOUNTABLE KERB TYPE M6
--- KERB ONLY	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	--- Q50 FLOODED WIDTH

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:	
No.	REVISION DESCRIPTION
1	LINE 45 EXTENDED
0	ISSUED FOR CONSTRUCTION



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van der meer
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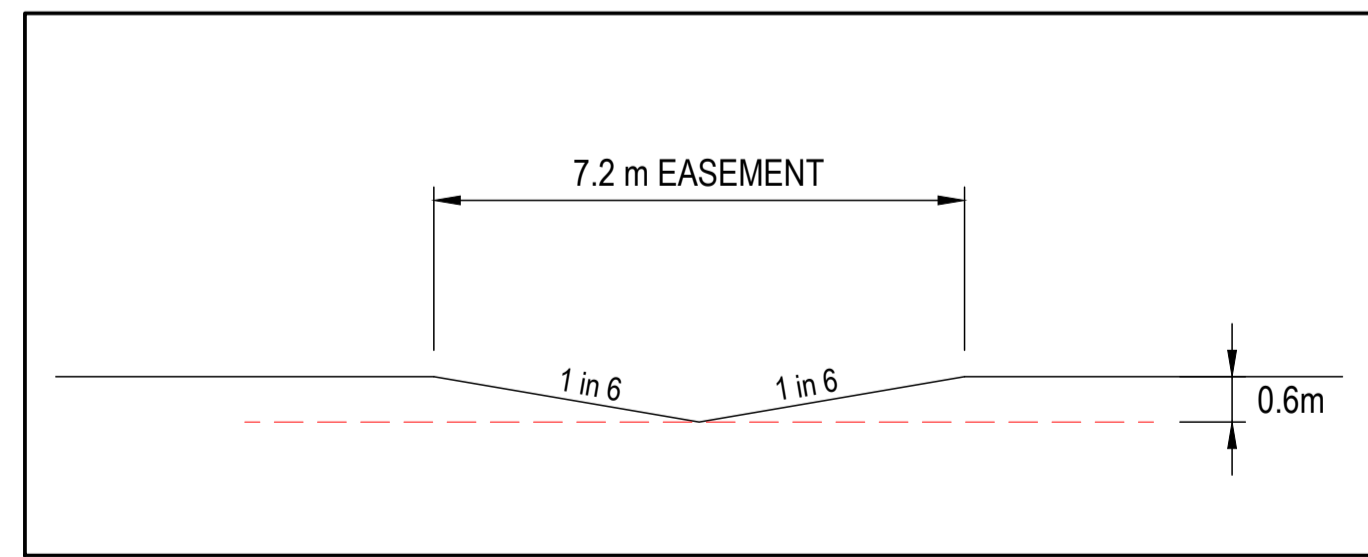
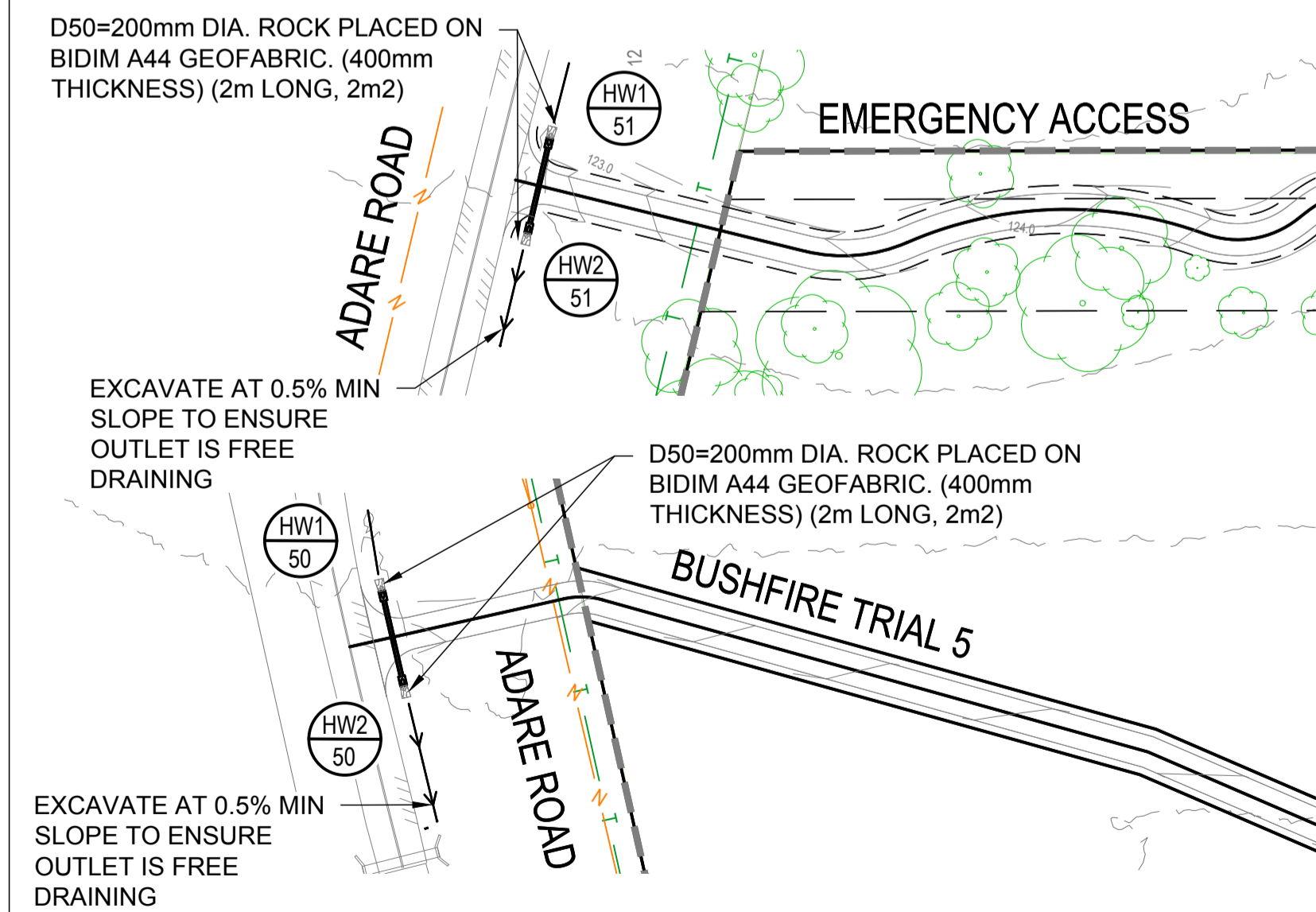
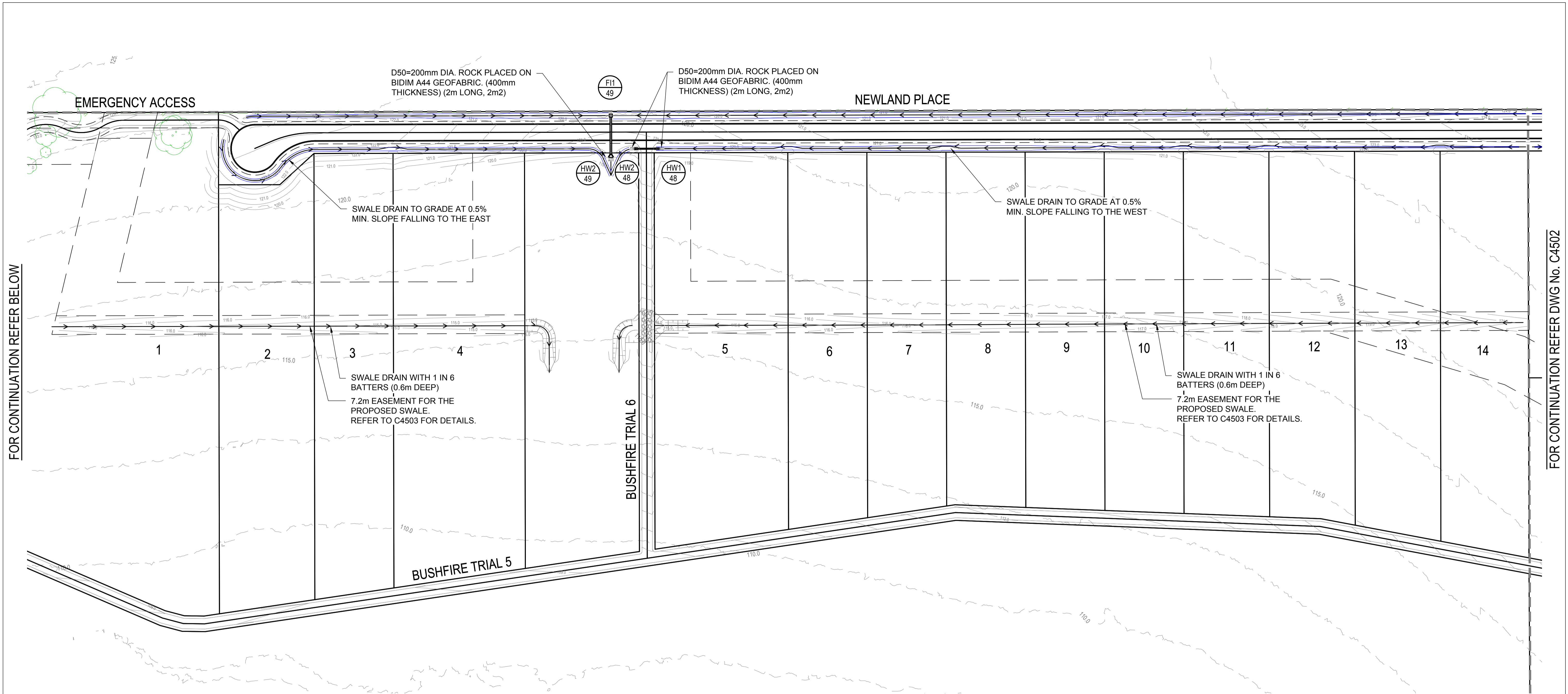
CLIENT
PARK LAKE ADARE PTY LTD
 PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
DRAINAGE PLAN SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4502	REVISION 1	



SWALE K AND L CROSS SECTION WITH 7.2m EASEMENTS ON EACH SIDE
N.T.S

SERVICES (PUP) LEGEND

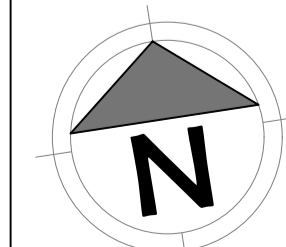
	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

LEGEND

EXISTING	PROPOSED
--- FENCE	--- EASEMENT BOUNDARY
--- OPEN DRAIN	--- OPEN DRAIN
--- KERB AND CHANNEL	--- MOUNTABLE KERB TYPE M4
--- KERB ONLY	--- MOUNTABLE KERB TYPE M6
--- CONTOUR (1.0m)	--- CONTOUR (0.5m)
--- ROAD EDGE BITUMEN	--- ROAD EDGE BITUMEN
○ TREE TO REMAIN	--- ROAD SHOULDER
○ TREE TO BE REMOVED	--- DRAINAGE
	--- Q50 FLOODED WIDTH

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

REVISIONS:	No.	REVISION DESCRIPTION	MP	02/08/24
0	ISSUED FOR CONSTRUCTION			



van der Meer Consulting

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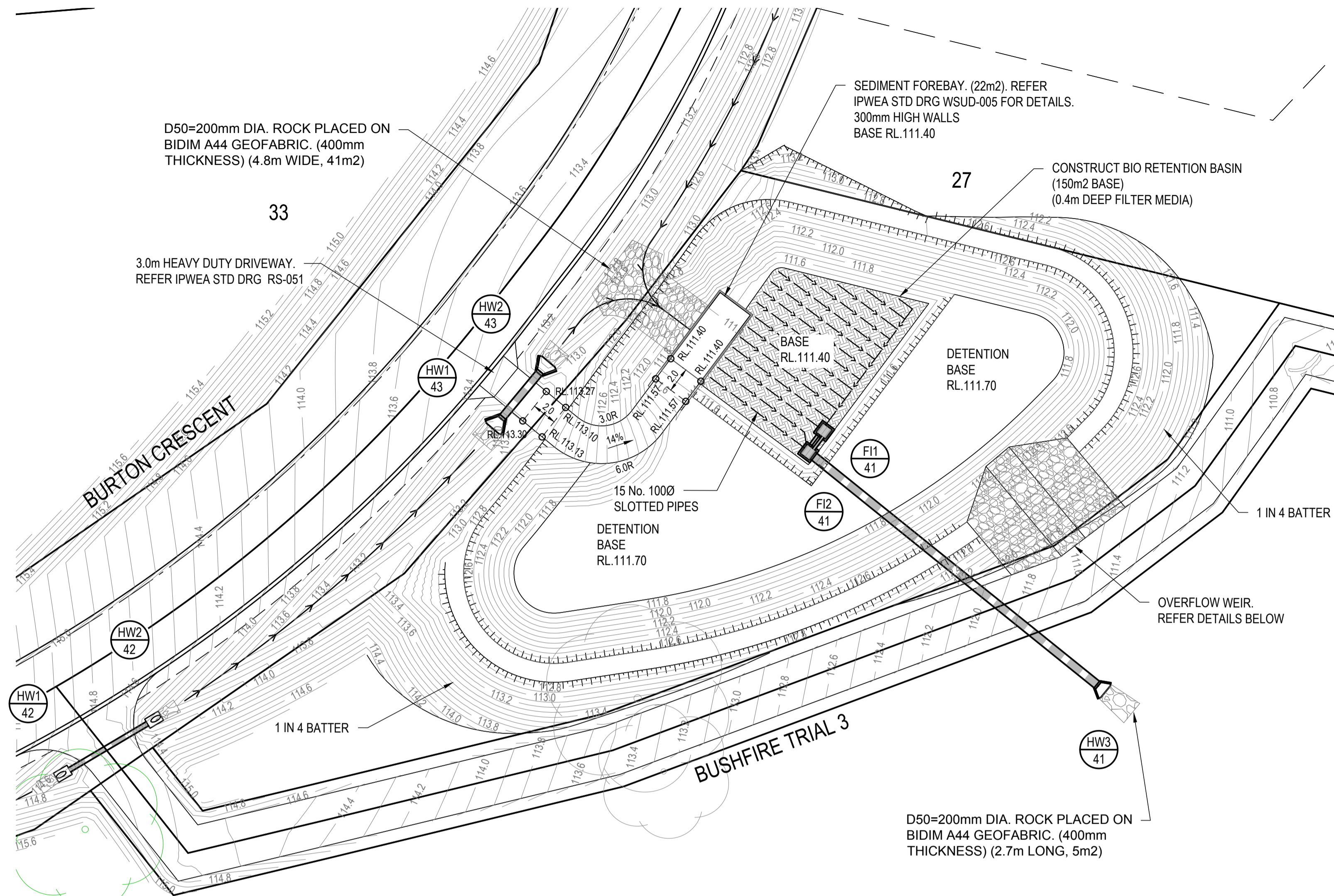
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 7.5 15 22.5 30 37.5m 75m
SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
DRAINAGE PLAN SHEET 3

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4503	REVISION 0	



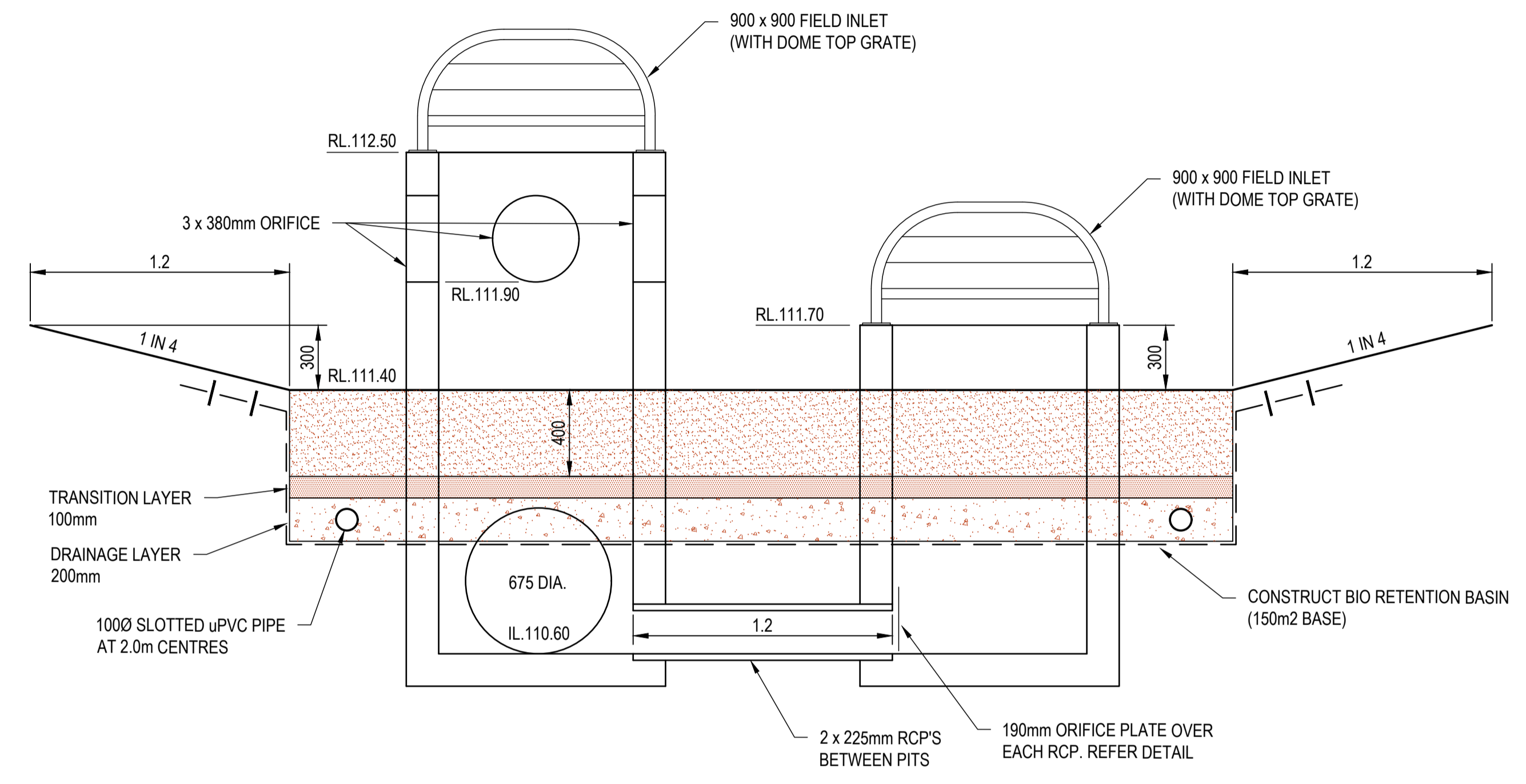
SERVICES (PUP) LEGEND

	EXISTING	PROPOSED
COMMUNICATIONS	C(*)	
DRAINAGE (unknown dia.)	D(*)	
DRAINAGE (known dia.)		
ELECTRICITY	E(*)	
O/H ELECTRICITY & POLE		
GAS	G(*)	
WATER MAIN	W(*)	

(*) - DENOTES QUALITY LEVEL AS PER A.S. 5488-2013.

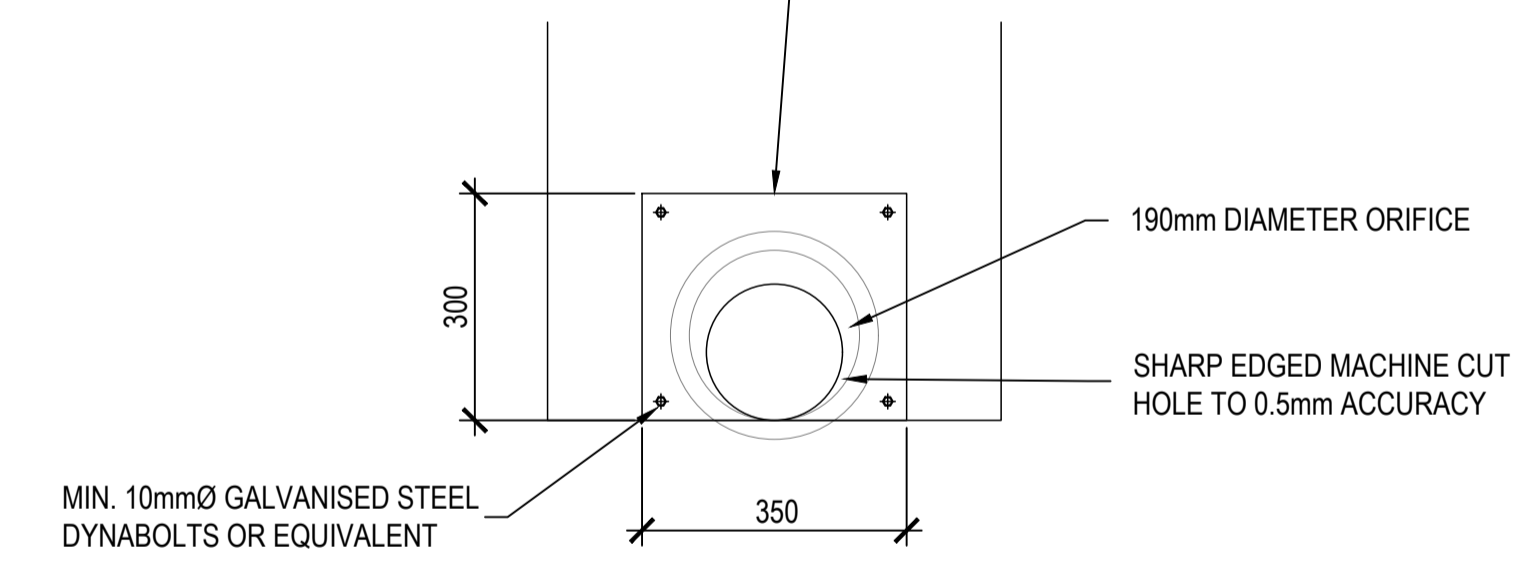
LEGEND

EXISTING	PROPOSED
--- FENCE	→ OPEN DRAIN
→ OPEN DRAIN	— MOUNTABLE KERB TYPE M4
— MOUNTABLE KERB TYPE M4	— MOUNTABLE KERB TYPE M6
— MOUNTABLE KERB TYPE M6	— CONTOUR (0.1m)
--- ROAD EDGE BITUMEN	--- ROAD EDGE BITUMEN
○ TREE TO REMAIN	--- ROAD SHOULDER
○ TREE TO BE REMOVED	--- DRAINAGE

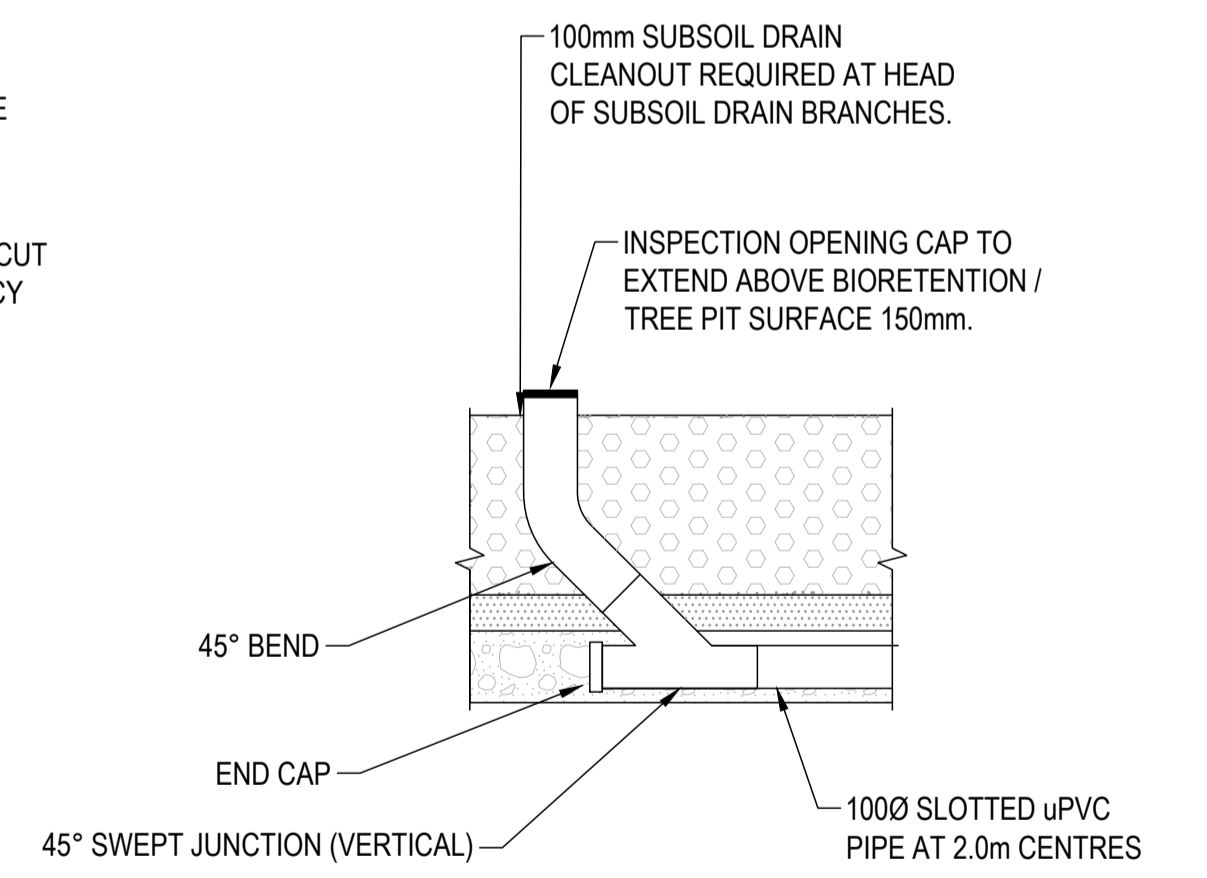


TYPICAL BIORETENTION BASIN SECTION
SCALE 1:20

EXPOXY RESIN 10mm THICK ORIFICE PLATE TO WALL AND PROVIDE SILICON SEALANT AROUND THE EDGES OF THE PLATE



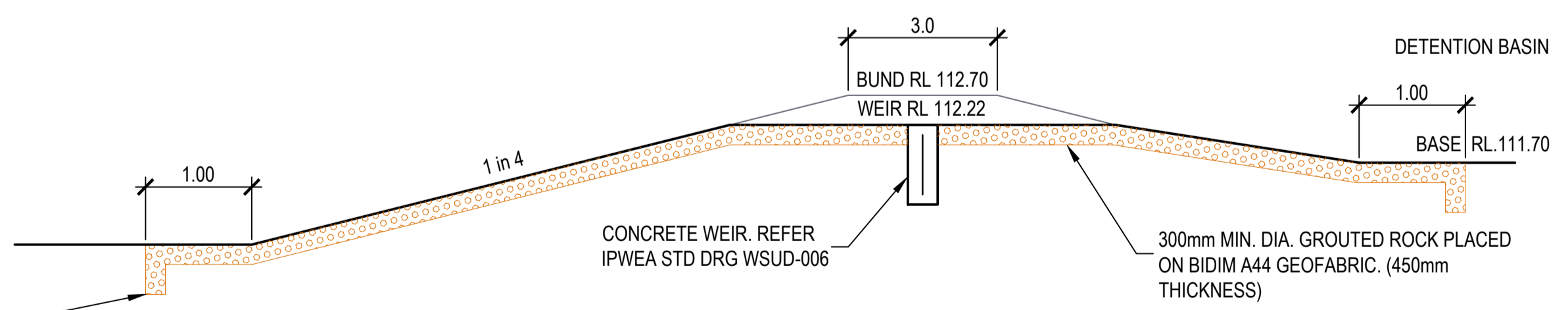
ORIFICE PLATE DETAIL
OVER 225 DIA. OUTLET PIPES
SCALE 1:10



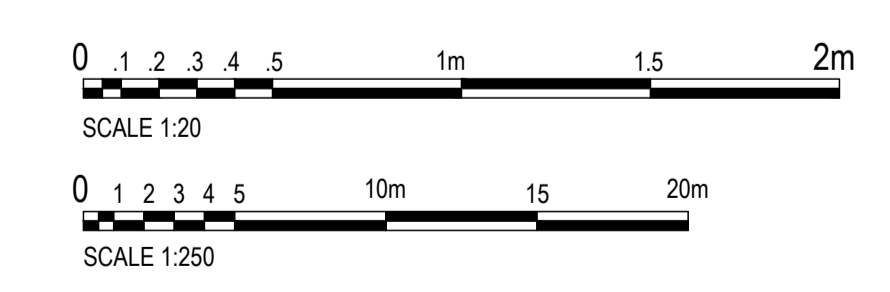
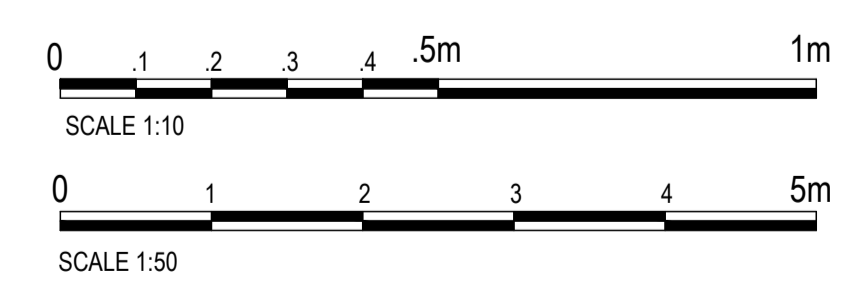
TYPICAL CLEAROUT TO SURFACE DETAIL
NTS



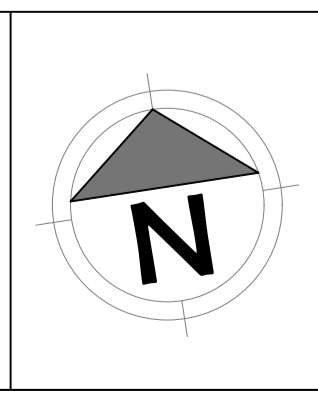
TYPICAL SECTION THROUGH OVERFLOW WEIR
SCALE 1:50



TYPICAL ELEVATION THROUGH OVERFLOW WEIR
SCALE 1:50



No.	REVISION DESCRIPTION	DRAWN	DATE
3	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
2	LINE 47 UPDATED	MP	13/11/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAINAGE BIO RETENTION BASIN DETAILS

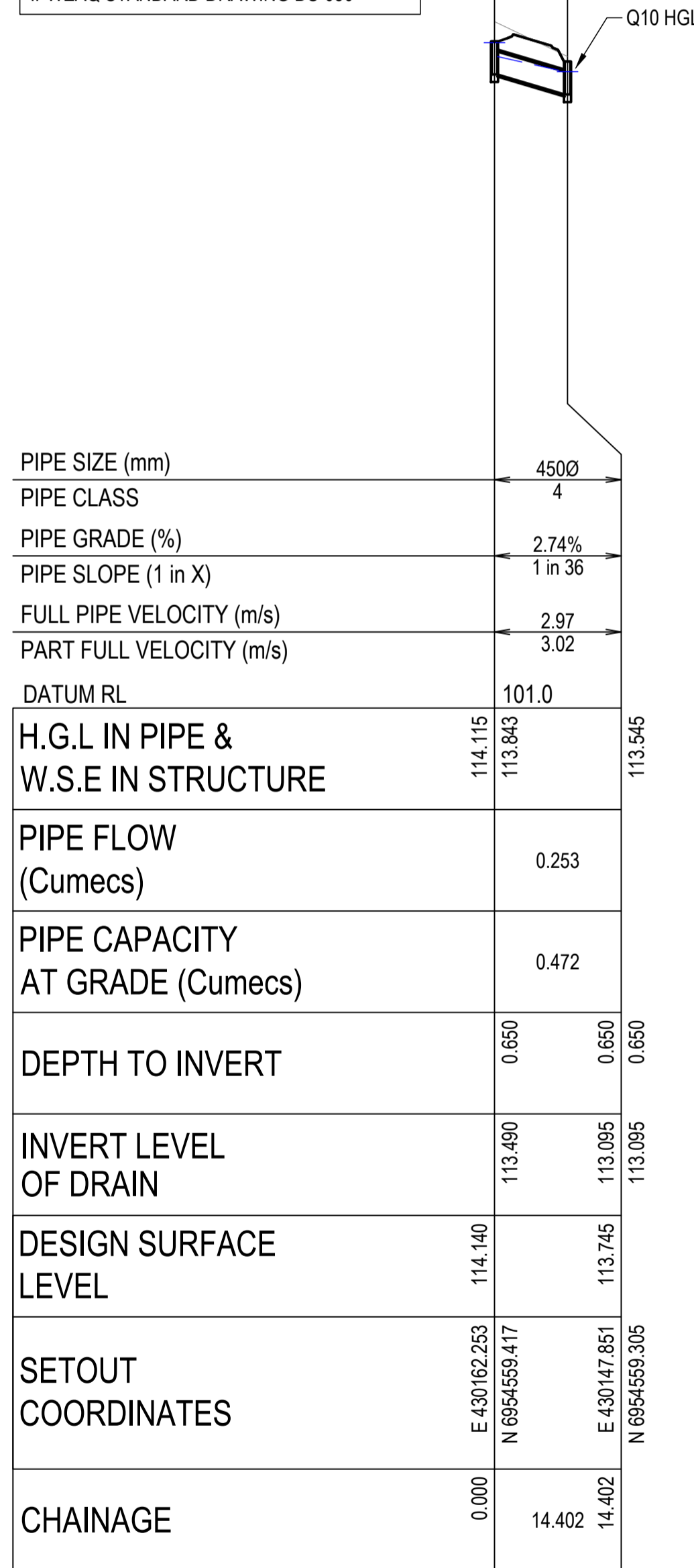
DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4510	REVISION 3	

STRUCTURE NAME	HW1/40	HW2/40
STRUCTURE DESCRIPTION	CONCRETE HEADWALL	CONCRETE HEADWALL

ALL PIPEWORK TO BE FIBRE REINFORCED CONCRETE TO THE SIZES NOMINATED.

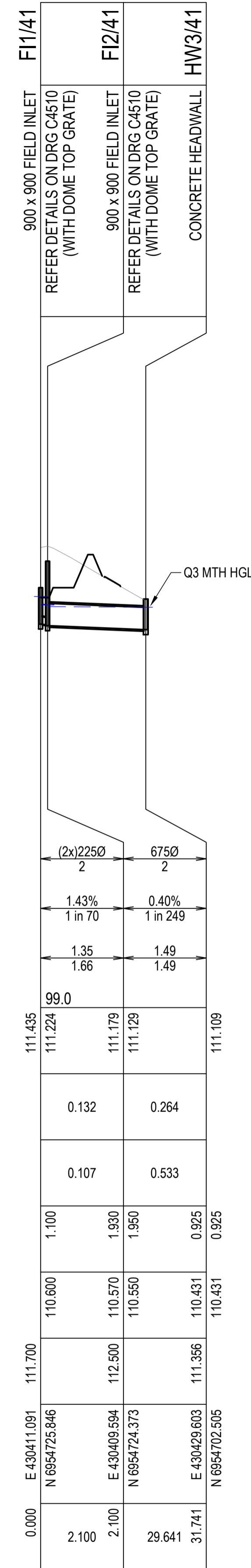
ALL BEDDING AND BACKFILLING OF PIPE TRENCHES AS PER IPWEAQ STANDARD DRAWING DS-030

ALL DRAINAGE FIELD INLETS AS PER IPWEAQ STANDARD DRAWING DS-050



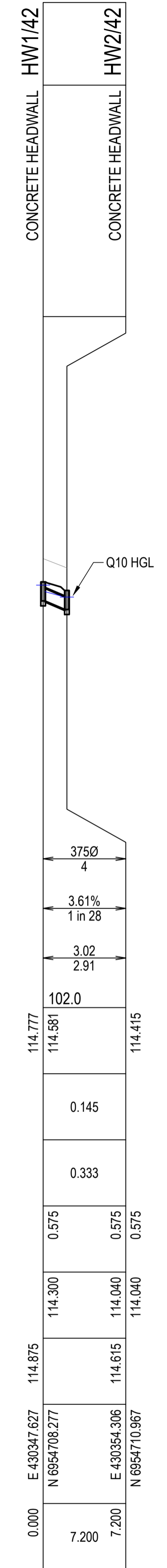
PIPE SIZE (mm)	4500
PIPE CLASS	4
PIPE GRADE (%)	2.74%
PIPE SLOPE (1 in X)	1 in 36
FULL PIPE VELOCITY (m/s)	2.97
PART FULL VELOCITY (m/s)	3.02
DATUM RL	101.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	114.115 113.843 113.545
PIPE FLOW (Cumecs)	0.253
PIPE CAPACITY AT GRADE (Cumecs)	0.472
DEPTH TO INVERT	0.650 0.650 0.650
INVERT LEVEL OF DRAIN	113.490 113.095 113.095
DESIGN SURFACE LEVEL	114.140 113.745 113.095
SETOUT COORDINATES	E 430162.253 N 6954559.417 E 430147.851 N 6954559.305
CHAINAGE	0.000 14.402 14.402

LINE 40



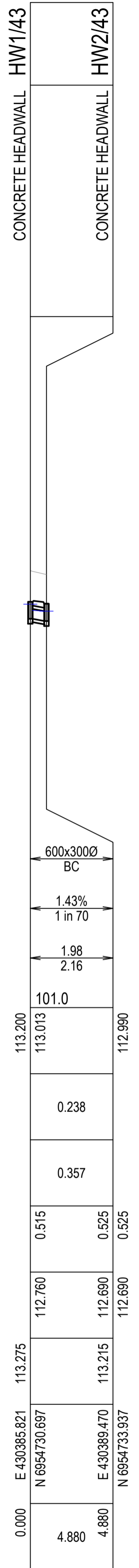
PIPE SIZE (mm)	(2x)2250 6750
PIPE CLASS	2 2
PIPE GRADE (%)	1.43%
PIPE SLOPE (1 in X)	1 in 70
FULL PIPE VELOCITY (m/s)	1.35
PART FULL VELOCITY (m/s)	1.66
DATUM RL	99.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	111.224 111.179 111.129 111.109
PIPE FLOW (Cumecs)	0.132
PIPE CAPACITY AT GRADE (Cumecs)	0.107
DEPTH TO INVERT	1.100 1.930 1.950 0.925 0.925
INVERT LEVEL OF DRAIN	110.600 110.570 110.550 110.431 110.431
DESIGN SURFACE LEVEL	111.700 112.500 112.373 111.356 110.431
SETOUT COORDINATES	E 430411.091 N 6954725.846 E 430409.594 N 6954724.373 E 430429.603 N 6954702.505
CHAINAGE	0.000 2.100 2.100 29.641 31.741

LINE 41



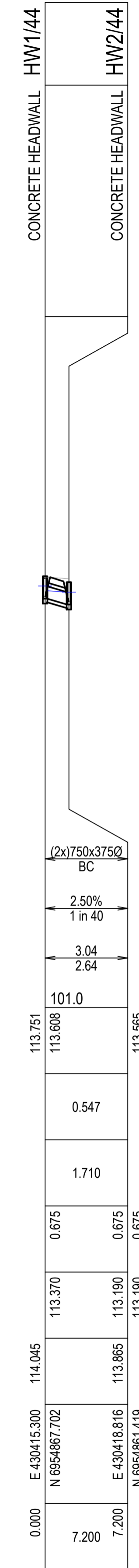
PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	3.61%
PIPE SLOPE (1 in X)	1 in 28
FULL PIPE VELOCITY (m/s)	3.02
PART FULL VELOCITY (m/s)	2.91
DATUM RL	102.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	114.777 114.581 114.415
PIPE FLOW (Cumecs)	0.145
PIPE CAPACITY AT GRADE (Cumecs)	0.333
DEPTH TO INVERT	0.575 0.575 0.575
INVERT LEVEL OF DRAIN	114.300 114.040 114.040
DESIGN SURFACE LEVEL	114.875 114.615 114.040
SETOUT COORDINATES	E 430347.627 N 6954708.277 E 430354.306 N 6954710.967
CHAINAGE	0.000 7.200 7.200

LINE 42



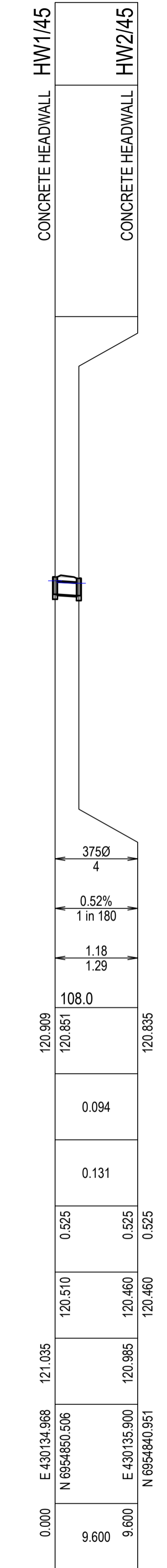
PIPE SIZE (mm)	600x3000 BC
PIPE CLASS	BC
PIPE GRADE (%)	1.43%
PIPE SLOPE (1 in X)	1 in 70
FULL PIPE VELOCITY (m/s)	1.98
PART FULL VELOCITY (m/s)	2.16
DATUM RL	101.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	113.200 113.013 112.990
PIPE FLOW (Cumecs)	0.238
PIPE CAPACITY AT GRADE (Cumecs)	0.357
DEPTH TO INVERT	0.515 0.525 0.525
INVERT LEVEL OF DRAIN	112.760 112.690 112.690
DESIGN SURFACE LEVEL	113.275 113.215 112.690
SETOUT COORDINATES	E 430385.821 N 6954730.697 E 430389.470 N 6954733.937
CHAINAGE	0.000 4.880 4.880

LINE 43



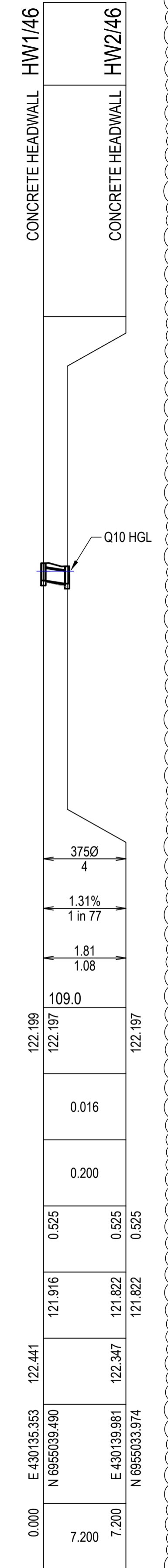
PIPE SIZE (mm)	(2x)750x3750 BC
PIPE CLASS	BC
PIPE GRADE (%)	2.50%
PIPE SLOPE (1 in X)	1 in 40
FULL PIPE VELOCITY (m/s)	3.04
PART FULL VELOCITY (m/s)	2.64
DATUM RL	101.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	113.751 113.608 113.565
PIPE FLOW (Cumecs)	0.547
PIPE CAPACITY AT GRADE (Cumecs)	1.710
DEPTH TO INVERT	0.675 0.525 0.675
INVERT LEVEL OF DRAIN	113.370 113.190 113.190
DESIGN SURFACE LEVEL	114.045 113.865 113.190
SETOUT COORDINATES	E 430415.300 N 6954867.702 E 430418.816 N 6954861.419
CHAINAGE	0.000 7.200 7.200

LINE 44



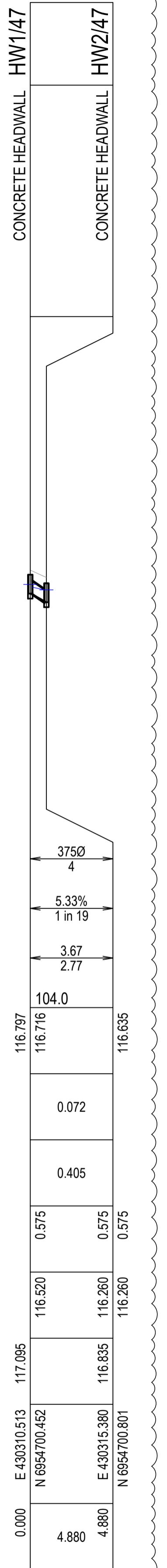
PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	0.52%
PIPE SLOPE (1 in X)	1 in 180
FULL PIPE VELOCITY (m/s)	1.18
PART FULL VELOCITY (m/s)	1.29
DATUM RL	108.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	120.909 120.851 120.835
PIPE FLOW (Cumecs)	0.094
PIPE CAPACITY AT GRADE (Cumecs)	0.131
DEPTH TO INVERT	0.525 0.525 0.525
INVERT LEVEL OF DRAIN	120.510 120.460 120.460
DESIGN SURFACE LEVEL	121.035 120.985 120.460
SETOUT COORDINATES	E 430134.968 N 6954850.506 E 430135.900 N 6954840.951
CHAINAGE	0.000 9.600 9.600

LINE 45



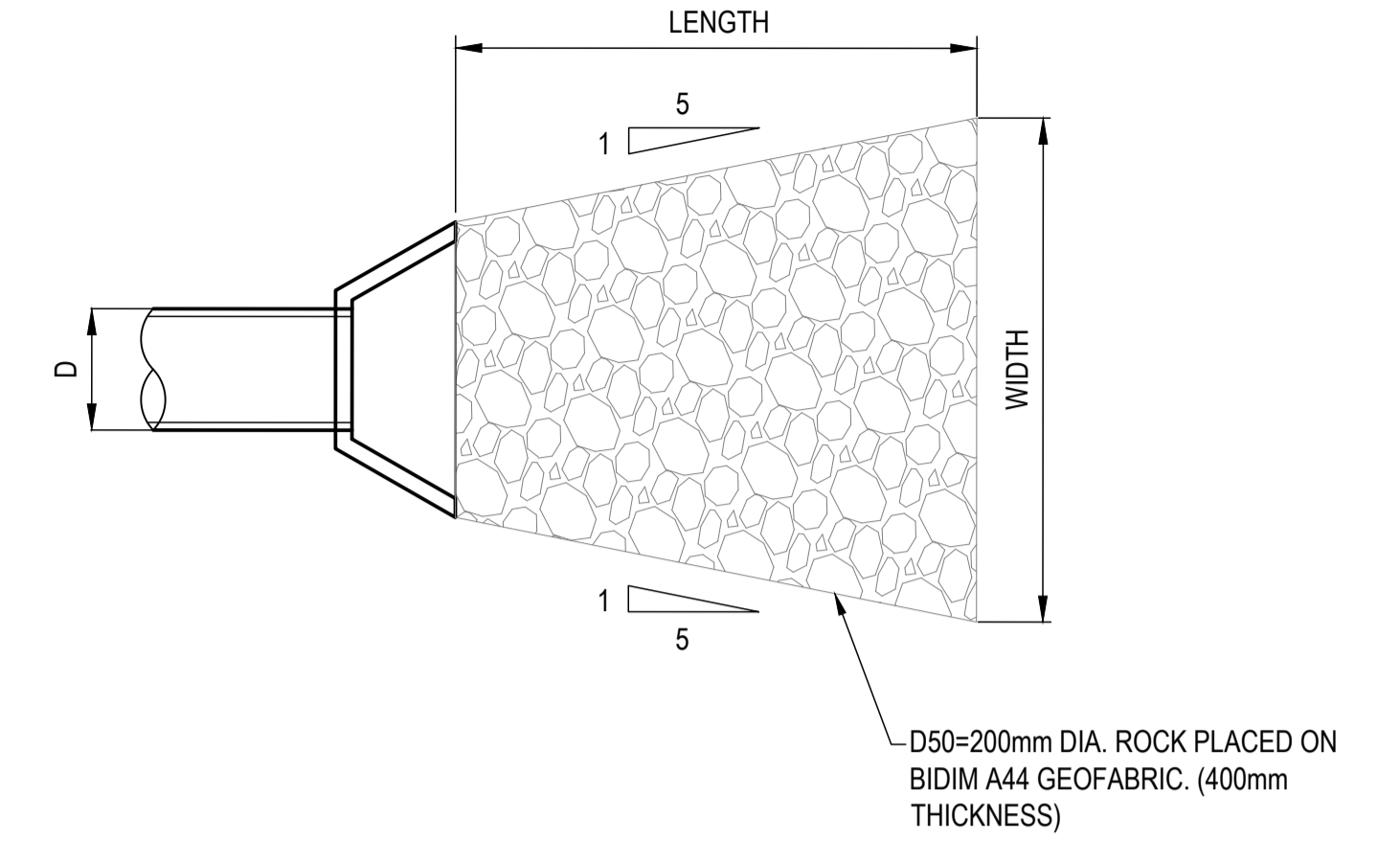
PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	1.31%
PIPE SLOPE (1 in X)	1 in 77
FULL PIPE VELOCITY (m/s)	1.81
PART FULL VELOCITY (m/s)	1.08
DATUM RL	109.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	122.199 122.197 122.197
PIPE FLOW (Cumecs)	0.016
PIPE CAPACITY AT GRADE (Cumecs)	0.200
DEPTH TO INVERT	0.525 0.525 0.525
INVERT LEVEL OF DRAIN	121.916 121.822 121.822
DESIGN SURFACE LEVEL	122.441 122.347 121.822
SETOUT COORDINATES	E 430135.353 N 6955039.490 E 430139.981 N 6955033.974
CHAINAGE	0.000 7.200 7.200

LINE 46

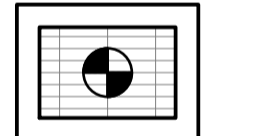


PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	5.33%
PIPE SLOPE (1 in X)	1 in 19
FULL PIPE VELOCITY (m/s)	3.67
PART FULL VELOCITY (m/s)	2.77
DATUM RL	104.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	116.797 116.716 116.635
PIPE FLOW (Cumecs)	0.072
PIPE CAPACITY AT GRADE (Cumecs)	0.405
DEPTH TO INVERT	0.575 0.575 0.575
INVERT LEVEL OF DRAIN	116.520 116.260 116.260
DESIGN SURFACE LEVEL	117.095 116.835 116.260
SETOUT COORDINATES	E 430310.513 N 6954700.452 E 430315.380 N 6954700.801
CHAINAGE	0.000 4.880 4.880

LINE 47

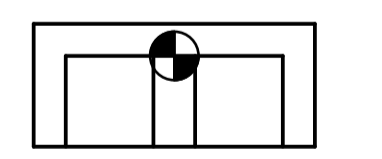


INLET / OUTLET PROTECTION DETAIL
PROVIDE TO ALL OUTLETS
N.T.S.



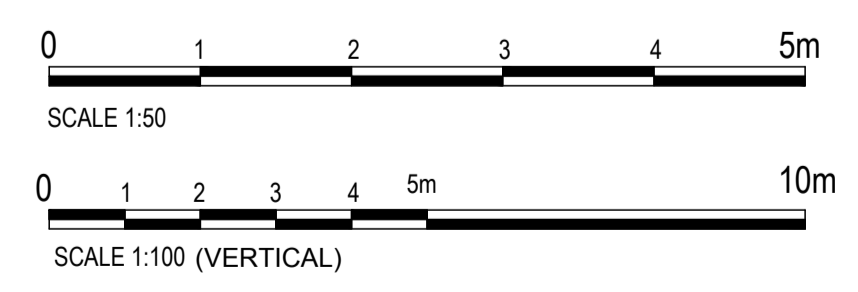
TYPICAL FIELD INLET SETOUT
SCALE 1:50

⊙ DENOTES SETOUT POINT



TYPICAL HEADWALL SETOUT
SCALE 1:50

⊙ DENOTES SETOUT POINT



No.	REVISION DESCRIPTION	DATE
4	STORMWATER BASIN AND FIRE TRIAL UPDATED	20/01/25
3	LINE 47 UPDATED	13/11/24
2	LINE 45 EXTENDED	11/11/24
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	31/10/24
0	ISSUED FOR CONSTRUCTION	02/08/24



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PO BOX 4107 SPRINGFIELD QLD 4300
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
DRAINAGE LONGITUDINAL SECTIONS
SHEET 1

DRAWING STATUS ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4550	REVISION 4	

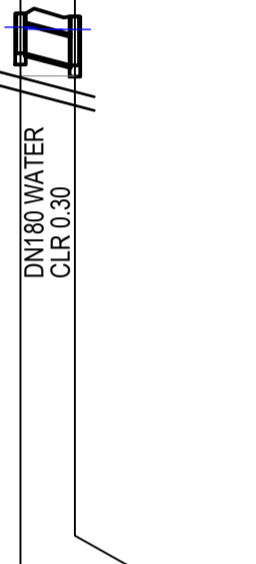
STRUCTURE NAME	HW1/48
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/48
	CONCRETE HEADWALL

ALL PIPEWORK TO BE FIBRE REINFORCED CONCRETE TO THE SIZES NOMINATED.

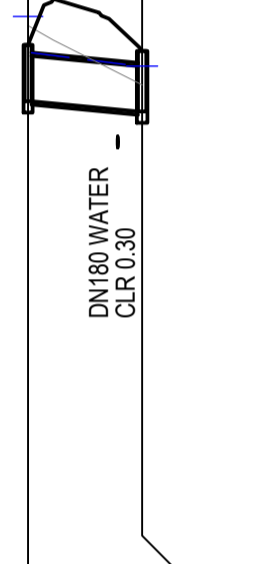
ALL BEDDING AND BACKFILLING OF PIPE TRENCHES AS PER IPWEAQ STANDARD DRAWING DS-030

ALL DRAINAGE FIELD INLETS AS PER IPWEAQ STANDARD DRAWING DS-050

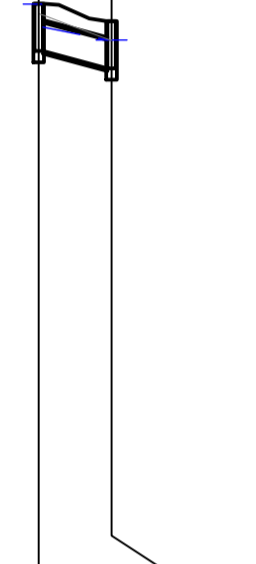
PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	2.22%
PIPE SLOPE (1 in X)	1 in 45
FULL PIPE VELOCITY (m/s)	2.37
PART FULL VELOCITY (m/s)	1.90
DATUM RL	107.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	119.724 119.695
PIPE FLOW (Cumecs)	0.057
PIPE CAPACITY AT GRADE (Cumecs)	0.261
DEPTH TO INVERT	0.525 0.645 0.645
INVERT LEVEL OF DRAIN	119.380 119.220 119.220
DESIGN SURFACE LEVEL	119.905 119.865
SETOUT COORDINATES	E 429713.133 N 6955095.703 E 429706.014 N 6955096.777
CHAINAGE	0.000 7.200 7.200



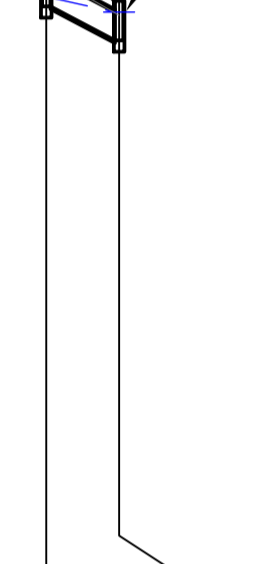
STRUCTURE NAME	F11/49
STRUCTURE DESCRIPTION	900 x 900 FIELD INLET (WITH DOME TOP GRATE)
	HW2/49
	CONCRETE HEADWALL
PIPE SIZE (mm)	6000
PIPE CLASS	2
PIPE GRADE (%)	0.89%
PIPE SLOPE (1 in X)	1 in 112
FULL PIPE VELOCITY (m/s)	2.05
PART FULL VELOCITY (m/s)	2.35
DATUM RL	107.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	119.867 119.387
PIPE FLOW (Cumecs)	0.665
PIPE CAPACITY AT GRADE (Cumecs)	0.581
DEPTH TO INVERT	0.745 0.800 0.800
INVERT LEVEL OF DRAIN	118.745 118.610 118.610
DESIGN SURFACE LEVEL	119.490 119.410
SETOUT COORDINATES	E 429697.760 N 6955110.968 E 429695.509 N 6955096.046
CHAINAGE	0.000 15.090 15.090



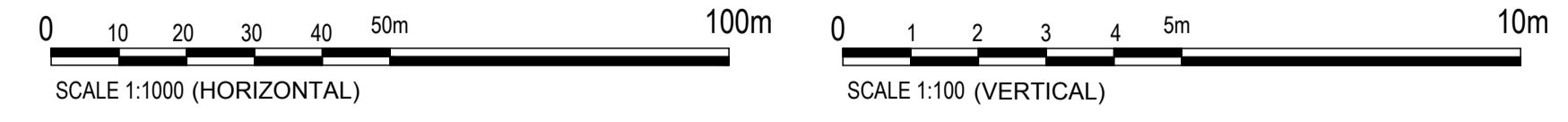
STRUCTURE NAME	HW1/50
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/50
	CONCRETE HEADWALL
PIPE SIZE (mm)	3750
PIPE CLASS	4
PIPE GRADE (%)	2.39%
PIPE SLOPE (1 in X)	1 in 42
FULL PIPE VELOCITY (m/s)	2.45
PART FULL VELOCITY (m/s)	2.64
DATUM RL	99.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	112.030 111.726
PIPE FLOW (Cumecs)	0.187
PIPE CAPACITY AT GRADE (Cumecs)	0.271
DEPTH TO INVERT	0.625 0.625 0.625
INVERT LEVEL OF DRAIN	111.410 111.180 111.180
DESIGN SURFACE LEVEL	112.035 111.805
SETOUT COORDINATES	E 429344.796 N 6955017.115 E 429345.519 N 6955007.502
CHAINAGE	0.000 9.640 9.640



STRUCTURE NAME	HW1/51
STRUCTURE DESCRIPTION	CONCRETE HEADWALL
	HW2/51
	CONCRETE HEADWALL
PIPE SIZE (mm)	3750
PIPE CLASS	2
PIPE GRADE (%)	4.67%
PIPE SLOPE (1 in X)	1 in 21
FULL PIPE VELOCITY (m/s)	3.43
PART FULL VELOCITY (m/s)	1.96
DATUM RL	109.0
H.G.L IN PIPE & W.S.E IN STRUCTURE	122.150 122.115
PIPE FLOW (Cumecs)	0.026
PIPE CAPACITY AT GRADE (Cumecs)	0.379
DEPTH TO INVERT	0.525 0.525 0.525
INVERT LEVEL OF DRAIN	122.000 121.550 121.550
DESIGN SURFACE LEVEL	122.525 122.075
SETOUT COORDINATES	E 429380.069 N 6955160.995 E 429376.474 N 6955152.050
CHAINAGE	0.000 9.640 9.640



LINE 48 49 50 51



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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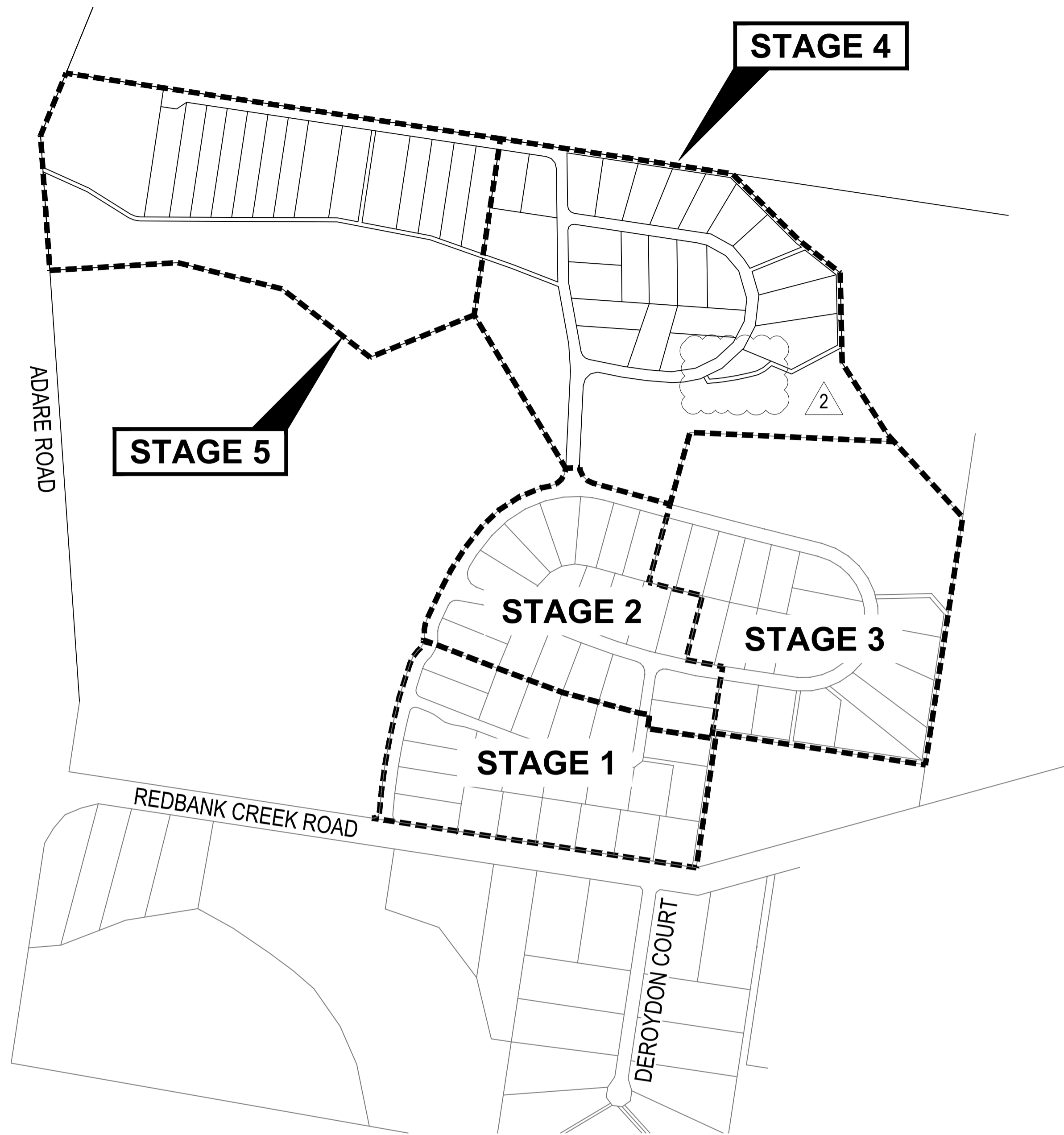
CLIENT
PARK LAKE ADARE PTY LTD
 PO BOX 4107 SPRINGFIELD QLD 4300
 SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
DRAINAGE LONGITUDINAL SECTIONS
 SHEET 2

DRAWING STATUS ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4551	REVISION 0	

ASSET REGISTER - WATER RETICULATION					
ESTATE/STAGE	STAGES 4 AND 5				
SITE ADDRESS	174 ADARE ROAD, ADARE				
FILE/APPLICATION	24-PNT-71761				
DELEGATES APP. DATE					
CLIENT	PARK LAKE ADARE PTY LTD				
DRAWING/PLAN No.					
MAINS	DIA.	MATERIAL		LENGTH (m)	
		DESIGN	CONST.	DESIGN	CONST.
	DN125	PE		632	
	DN180	PE		1236	
SERVICES	DIA.	MATERIAL		LENGTH (m)	
		DESIGN	CONST.	DESIGN	CONST.
	20mm				
	25mm	PE100 PN16			
	32mm	PE100 PN16		76	
	40mm	PE100 PN16		72	
METERS	DIA.	NUMBER			
	20mm	38			
	25mm				
	32mm				
	150mm				
	50mm				

SERVICE DETAILS		
NO	SIZE	LOT NUMBERS
28	DN25 PE	1 TO 18, 28 TO 37 AND 146
12	DN32 PE	19 TO 27



LOCALITY PLAN
SCALE 1:5000



PRIOR STAGE INFRASTRUCTURE FORMS PART OF THIS APPROVAL IN ORDER TO ESTABLISH A LEGAL POINT OF CONNECTION TO URBAN UTILITIES EXISTING NETWORK. THE PRIOR STAGE 1 WORKS HAVE BEEN APPROVED UNDER 22-PNT-60566.

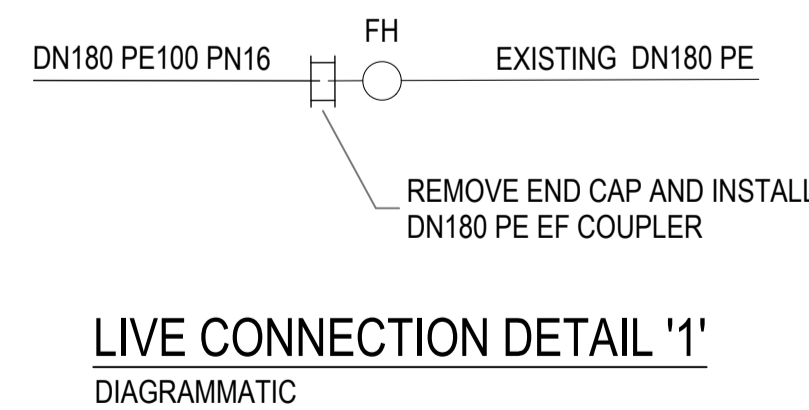
22-PNT-60566 WORKS MUST BE CONSIDERED PRACTICALLY COMPLETE FOR URBAN UTILITIES TO CONSIDER GRANTING CONNECTION CERTIFICATE FOR THIS STAGE.

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK, INCLUDING CLEARING COMMENCING.

ALL WATER AND SEWER CONSTRUCTION WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011.

CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION PHONE : 1300 362 128

SEQ CODE STANDARD DRAWING SCHEDULE	
SOIL CLASSIFICATION	SEQ-WAT-1200-1
EMBEDMENT AND TRENCH FILL	SEQ-WAT-1200-2
THRUST BLOCK DETAILS	SEQ-WAT-1205-1
VALVE THRUST BLOCKS	SEQ-WAT-1206-1
IDENTIFICATION MARKERS	SEQ-WAT-1300-1,2



LIVE CONNECTION DETAIL '1'
DIAGRAMMATIC

ALL LIVE WORKS ON AC MAIN SHALL INCLUDE REMOVAL OF EXISTING AC MAIN FROM COLLAR TO COLLAR.

VALVE MARKERS, HYDRANT MARKERS AND PAVEMENT MARKINGS ARE TO BE INSTALLED/REINSTATED IN ACCORDANCE WITH SEQ-WAT-1300-1

AS CONSTRUCTED
AS CONSTRUCTED DOCUMENTATION IS TO BE PROVIDED IN ACCORDANCE WITH REQUIREMENTS AS SPECIFIED IN THE SEQ D&C CODE INCLUSIVE OF FULL ADAC COMPLAINT SURVEY

DRAWING INDEX	
SHEET NUMBER	SHEET TITLE
C4600	WATER RETICULATION COVER SHEET
C4601	WATER RETICULATION PLAN - SHEET 1
C4602	WATER RETICULATION PLAN - SHEET 2
C4603	WATER RETICULATION PLAN - SHEET 3

LIVE WORKS CONNECTION 1

STREET : NEWLAND PLACE

INSTALLATION : _____

TYPE OF MAIN : EXISTING DN180 PE

DATE COMMENCED : _____ DATE COMPLETED : _____

SIGNATURE : _____

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
- COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
- TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. SEQ-WAT-1410-1.
- THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- WATER MAIN ROAD CROSSING AND VALVE PAVEMENT MARKERS TO BE INSTALLED AS PER SEQ-WAT-1300-1.

WATER MAIN CONSTRUCTION NOTES

- DURING ANY CONSTRUCTION ACTIVITY AT LEAST ONE PERSON ON SITE MUST HAVE COMPLETED A PIPE LAYING TRAINING COURSE APPROVED BY THE PIPE SUPPLIER OR MANUFACTURER AND APPROPRIATE TO THE PIPELINE UNDER CONSTRUCTION. THE TRAINING COURSE MUST HAVE BEEN COMPLETED WITHIN THE LAST TEN YEARS.
- ALL SITE AND FACTORY PE WELDING SHALL BE CARRIED OUT BY A PERSON WHO HAS COMPLETED RELEVANT NATIONALLY ACCREDITED TRAINING COURSES FOR BUTT WELDING/ELECTROFUSION AND HOLD A VALID WELDING CERTIFICATE IN ACCORDANCE WITH AS/NZS 2033.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTED EVIDENCE OF ACCEPTABLE QUALIFICATIONS TO URBAN UTILITIES.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- CONSTRUCT FIRE HYDRANTS AND STOP VALVES TO SEQ-WAT-1301-1, 1302-1, 1303-2, 1305-1, 1306-1 & 1409-1.
- ALL LIVE WORKS SHALL BE UNDERTAKEN BY THE DEVELOPER'S LICENSED CONTRACTOR IN ACCORDANCE WITH A VALID URBAN UTILITIES NETWORK ACCESS PERMIT, UNDER SUPERVISION OF URBAN UTILITIES, AT THE DEVELOPER'S EXPENSE.
- PROPOSED WORKS ARE LOCATED WITHIN FIRE ANT BIOSECURITY ZONE 2. ALL WORKS ARE TO BE TO DAFF REQUIREMENTS.

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- TREE ROOTS SHALL BE TUNNELLED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

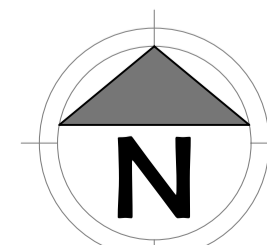
SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL SHALL BE ADHERED TO.

REHABILITATION

- PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.
- ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION SHALL BE REHABILITATED. HEAVILY COMPACTED AREAS SHOULD BE RIPPED PRIOR TO TREATMENT
- ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
- ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.
- TRENCH REINSTATEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH SEQ STANDARD REQUIREMENTS FOR EMBEDMENT AND TRENCH FILL. STANDARD DRAWINGS HAVE BEEN NOTED ON THIS PLAN.

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	18/09/24



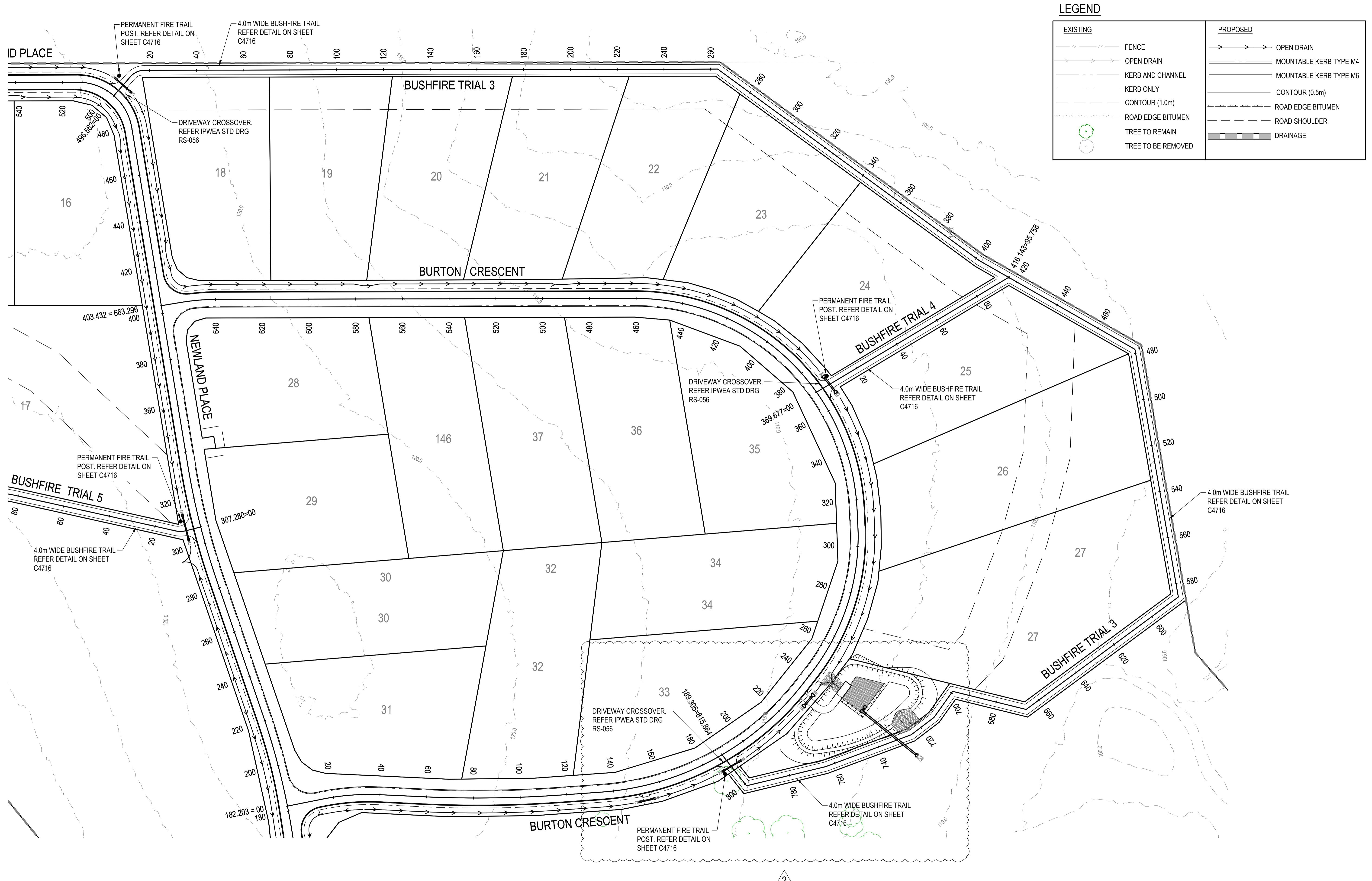
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van der meer
LEVEL 3, 51 ALFRED STREET
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Telephone +61 7 3021 6600
www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
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PO BOX 4107 SPRINGFIELD QLD 4300
SCALE
0 100 200 300 400 500m
SCALE 1:5000

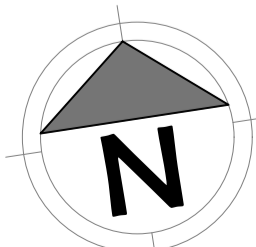
PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 6 AND 7
DRAWING TITLE
WATER RETICULATION COVER SHEET

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER: CK
DESIGNER: MP
SIGNATURE: _____
DRAFTSPERSON: MP
SCALE: AS SHOWN
DATE: 18/09/24
SHEET SIZE: A1
JOB No.: BR242036
DRAWING No.: C4600
REVISION: 2



EXISTING		PROPOSED	
	FENCE		OPEN DRAIN
	OPEN DRAIN		MOUNTABLE KERB TYPE M4
	KERB AND CHANNEL		MOUNTABLE KERB TYPE M6
	KERB ONLY		CONTOUR (0.5m)
	CONTOUR (1.0m)		ROAD EDGE BITUMEN
	ROAD EDGE BITUMEN		ROAD SHOULDER
	TREE TO REMAIN		DRAINAGE
	TREE TO BE REMOVED		

REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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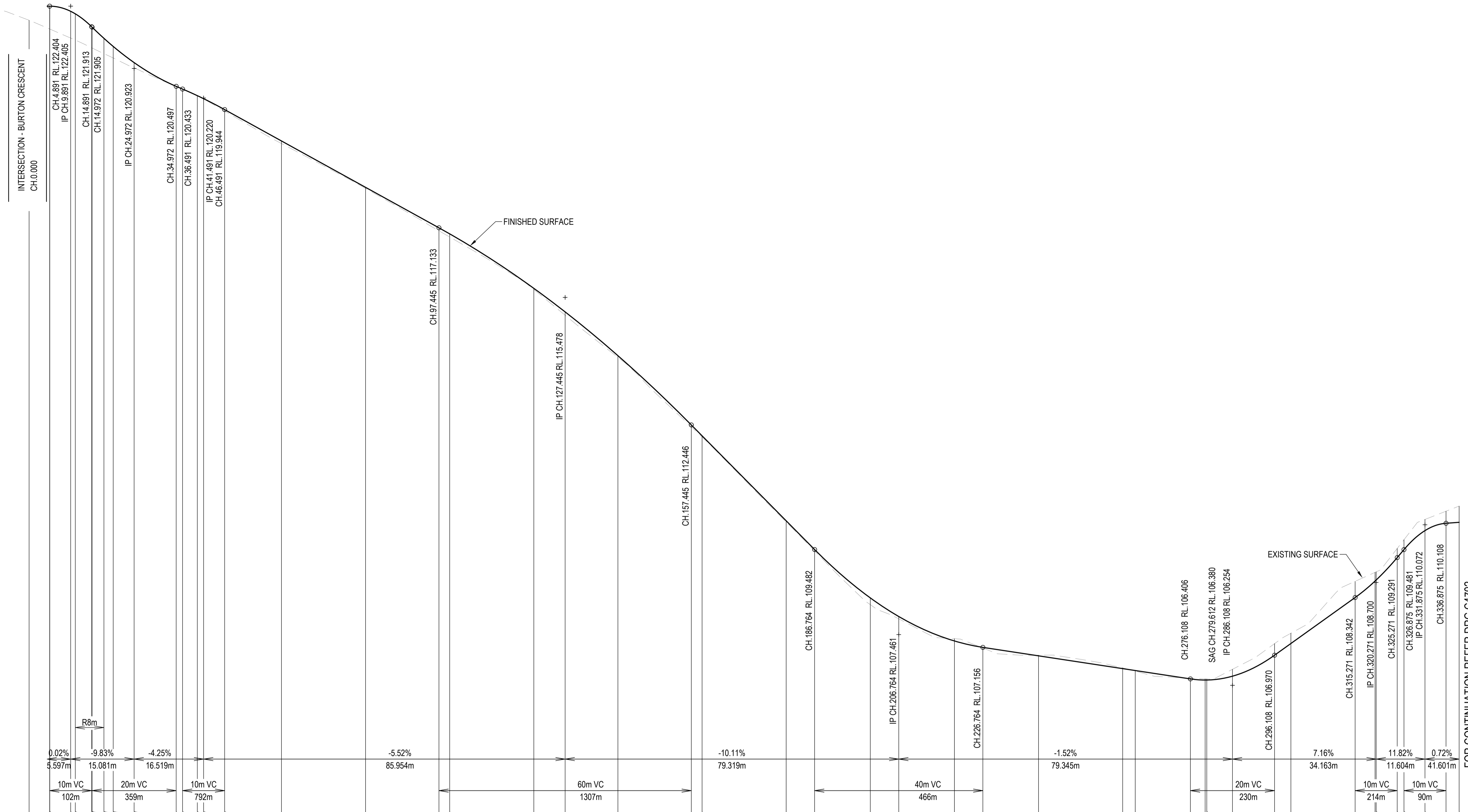
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 PO BOX 4107 SPRINGFIELD QLD 4300
 SCALE

 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 3 AND 4 PLAN

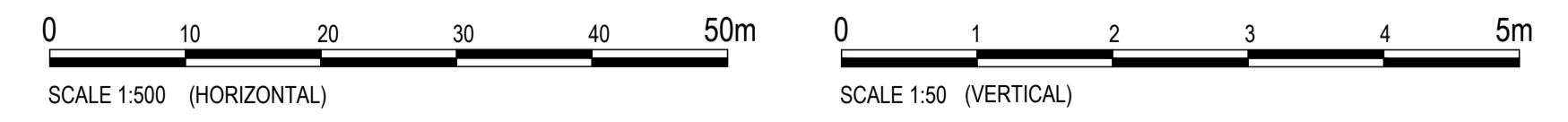
DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4700	2	



Horiz Curve Data
 Vertical Geometry Grade (%)
 Vertical Grade Length (m)
 Vertical Curve Length (m)
 Vertical Curve Radius (m)
 DATUM R.L. 103.000

CHAINAGE	NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS
0.000	122.069		
4.891	121.861	0.543	122.404
4.910	122.404	0.544	122.404
9.891	122.282	0.636	122.282
10.985	122.222	0.624	122.222
14.891	121.913	0.499	121.913
14.972	121.905	0.495	121.905
17.794	121.639	0.364	121.639
20.000	121.447	0.275	121.447
24.972	121.062	0.122	121.062
34.972	120.497	0.006	120.497
36.491	120.433	0.007	120.433
40.000	120.276	0.003	120.276
41.491	120.204	0.005	120.204
46.491	119.944	0.035	119.944
60.000	119.199	0.061	119.199
80.000	118.096	0.026	118.096
97.445	117.133	0.072	117.133
100.000	116.990	0.075	116.990
120.000	115.695	0.029	115.695
127.445	115.134	0.079	115.134
140.000	114.093	0.040	114.093
157.445	112.446	0.045	112.446
160.000	112.188	0.027	112.188
180.000	110.166	0.029	110.166
186.764	109.448	0.034	109.448
200.000	108.332	0.160	108.332
206.764	107.890	0.055	107.890
220.000	107.308	-0.054	107.308
226.764	107.156	0.016	107.156
240.000	106.955	-0.014	106.955
260.000	106.651	-0.016	106.651
262.984	106.606	0.014	106.606
276.108	106.406	-0.018	106.406
279.612	106.380	-0.027	106.380
280.000	106.380	-0.025	106.380
286.108	106.471	-0.164	106.471
296.108	106.970	-0.275	106.970
300.000	107.249	-0.244	107.249
315.271	108.342	-0.384	108.342
320.000	108.733	-0.207	108.733
320.271	108.758	-0.193	108.758
325.271	109.291	-0.217	109.291
326.875	109.481	-0.234	109.481
331.875	109.933	-0.266	109.933
336.875	110.108	-0.286	110.108
340.000	110.130	-0.386	110.130

LONGITUDINAL SECTION - BUSHFIRE TRIAL 3
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	REVISION DESCRIPTION	DATE
0	ISSUED FOR CONSTRUCTION	02/08/24



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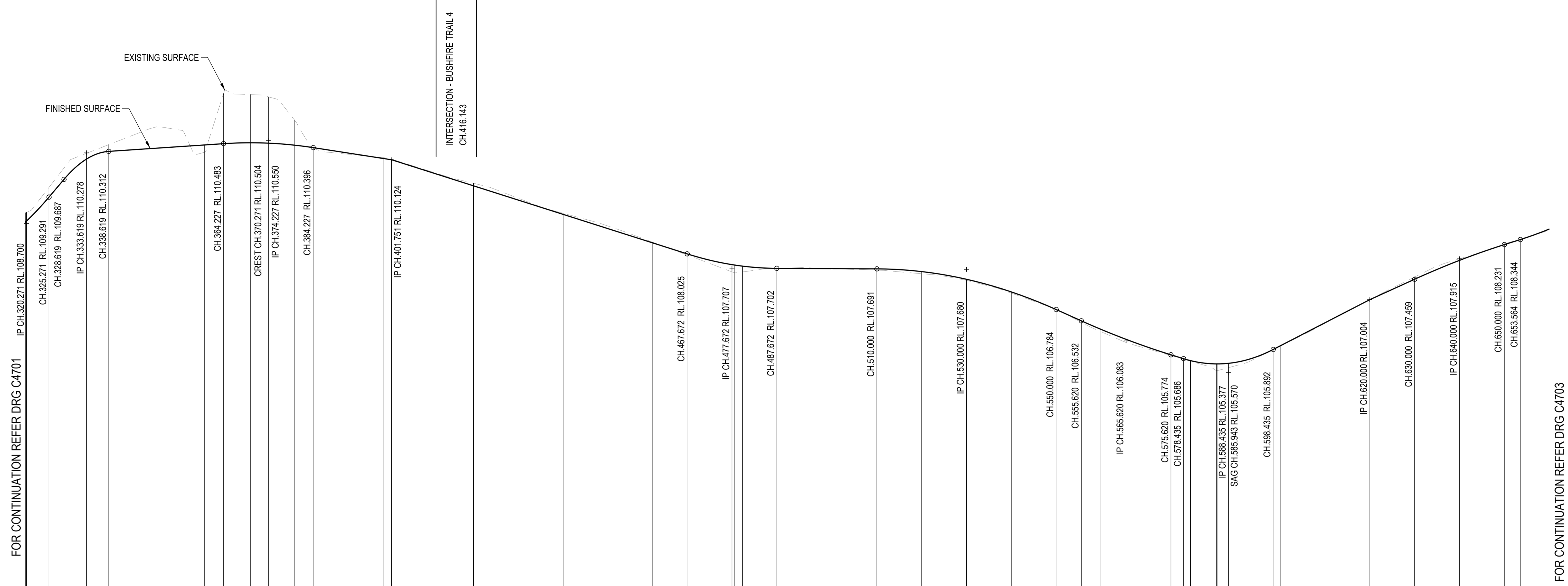
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PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 3 LONGITUDINAL SECTION - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No: BR242001
 DRAWING No: C4701
 REVISION: 0

FOR CONTINUATION REFER DRG C4702



Horiz Curve Data

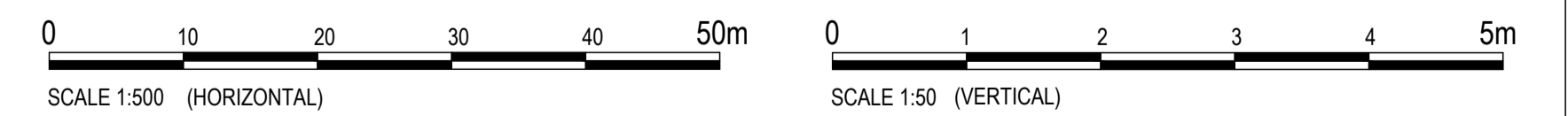
Vertical Geometry Grade (%)	11.82%	0.67%	-1.55%	-3.18%	-0.05%	-4.48%	-3.1%	5.16%	4.55%	3.16%
Vertical Grade Length (m)	13.349m	40.608m	27.524m	75.921m	52.328m	35.620m	22.815m	31.565m	20.000m	23.564m
Vertical Curve Length (m)	10m VC	10m VC	20m VC	20m VC	40m VC	20m VC	20m VC	20m VC	20m VC	20m VC
Vertical Curve Radius (m)	214m	90m	901m	638m	902m	1444m	242m	1439m	707m	

DATUM R.L. 98.000

CHAINAGE	NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS
320.000	108.733	-0.207	108.940
320.271	108.758	-0.193	108.952
325.271	109.291	-0.217	109.508
328.619	109.687	-0.253	109.940
333.619	110.139	-0.129	110.267
338.619	110.312	-0.150	110.462
340.000	110.321	-0.195	110.516
360.000	110.455	0.159	110.296
364.227	110.483	-1.118	111.602
370.271	110.504	-1.075	111.578
374.227	110.495	-1.033	111.528
380.000	110.451	-0.565	111.016
384.227	110.396	0.012	110.383
400.000	110.151	-0.018	110.169
401.652	110.126	-0.014	110.140
401.751	110.124	-0.013	110.138
420.000	109.543	-0.057	109.600
440.000	108.906	-0.024	108.930
460.000	108.270	-0.015	108.285
467.672	108.025	0.027	107.998
477.672	107.765	0.162	107.624
478.299	107.776	0.176	107.600
480.000	107.752	0.130	107.622
487.672	107.702	-0.002	107.704
500.000	107.696	-0.000	107.696
510.000	107.691	0.028	107.662
520.000	107.630	0.049	107.582
530.000	107.459	0.025	107.434
540.000	107.177	0.027	107.150
550.000	106.784	-0.007	106.790
555.620	106.532	0.033	106.499
560.000	106.342	0.053	106.289
565.620	106.118	0.072	106.046
575.620	105.774	0.017	105.757
578.435	105.686	0.011	105.675
580.000	105.643	0.013	105.630
585.818	105.570	0.154	105.416
585.943	105.570	0.150	105.420
588.435	105.583	0.097	105.486
598.435	105.892	0.005	105.887
600.000	105.973	0.008	105.965
620.000	107.004	0.000	107.004
630.000	107.459	-0.050	107.509
640.000	107.880	-0.035	107.915
650.000	108.231	-0.017	108.248
653.564	108.344	-0.011	108.355
660.000	108.577	0.029	108.548

LONGITUDINAL SECTION - BUSHFIRE TRIAL 3

HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
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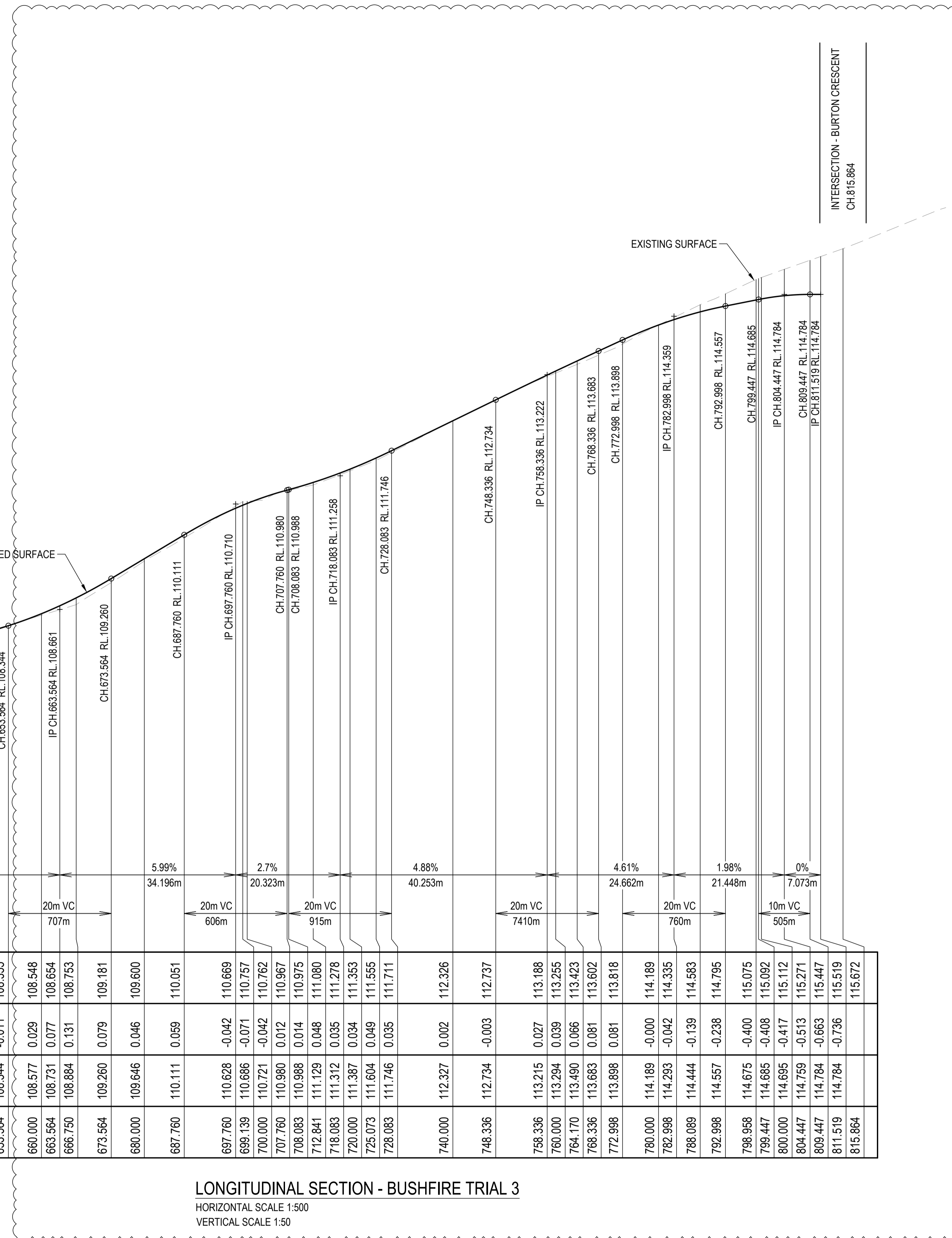
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRIAL 3 LONGITUDINAL SECTION - SHEET 2

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4702	SHEET SIZE A1
		REVISION 0

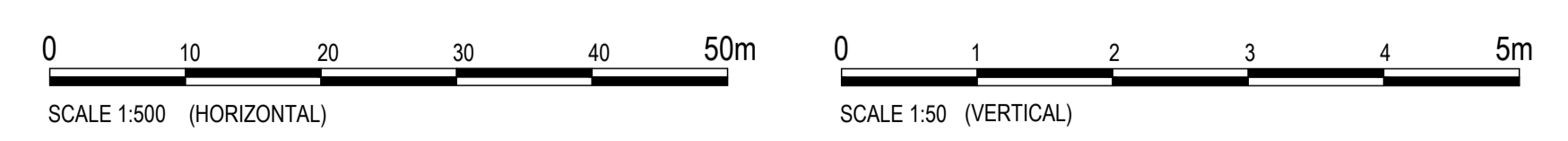


Horiz Curve Data
 Vertical Geometry Grade (%)
 Vertical Grade Length (m)
 Vertical Curve Length (m)
 Vertical Curve Radius (m)
 DATUM R.L. 102.000

CHAINAGE	DESIGN SURFACE LEVELS	CUT / FILL DEPTH	NATURAL SURFACE LEVELS
640.000	107.880	-0.035	107.915
650.000	108.231	-0.017	108.248
653.564	108.344	-0.011	108.355
660.000	108.577	0.029	108.548
663.564	108.731	0.077	108.654
666.750	108.884	0.131	108.753
673.564	109.260	0.079	109.181
680.000	109.646	0.046	109.600
687.760	110.111	0.059	110.051
697.760	110.628	-0.042	110.669
699.139	110.686	-0.071	110.757
700.000	110.721	-0.042	110.762
707.760	110.990	0.012	110.967
708.083	110.998	0.014	110.975
712.841	111.129	0.048	111.080
718.083	111.312	0.035	111.278
720.000	111.387	0.034	111.353
725.073	111.604	0.049	111.555
728.083	111.746	0.035	111.711
740.000	112.327	0.002	112.326
748.336	112.734	-0.003	112.737
758.336	113.215	0.027	113.188
760.000	113.294	0.039	113.255
764.170	113.490	0.066	113.423
768.336	113.663	0.081	113.602
772.998	113.898	0.081	113.818
780.000	114.189	-0.000	114.189
782.998	114.293	-0.042	114.335
788.089	114.444	-0.139	114.583
792.998	114.557	-0.238	114.795
798.958	114.675	-0.400	115.075
799.447	114.685	-0.408	115.092
800.000	114.695	-0.417	115.112
804.447	114.759	-0.513	115.271
809.447	114.784	-0.663	115.447
811.519	114.784	-0.736	115.519
815.864	114.784		115.672

LONGITUDINAL SECTION - BUSHFIRE TRIAL 3
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50

2



No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



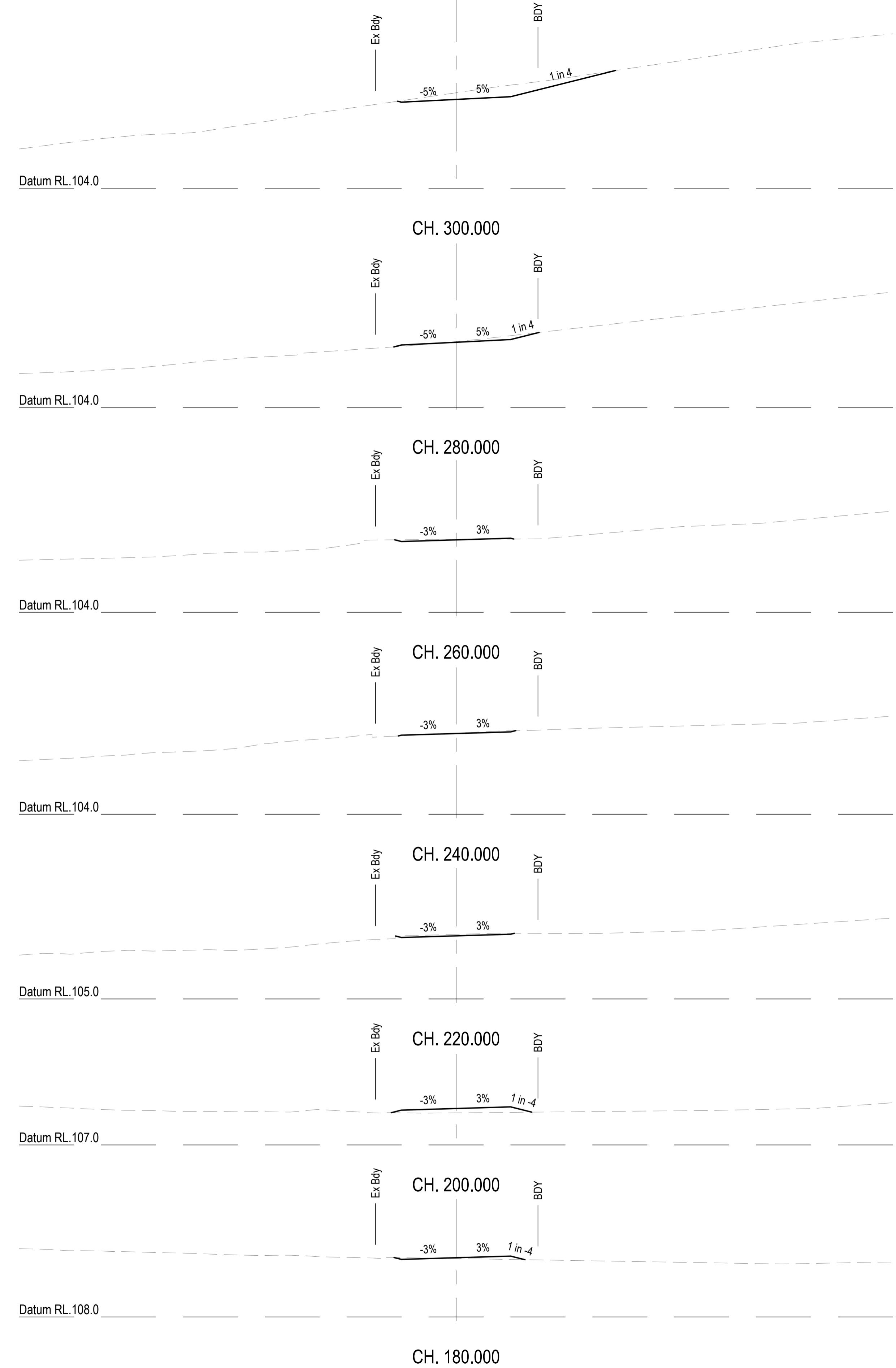
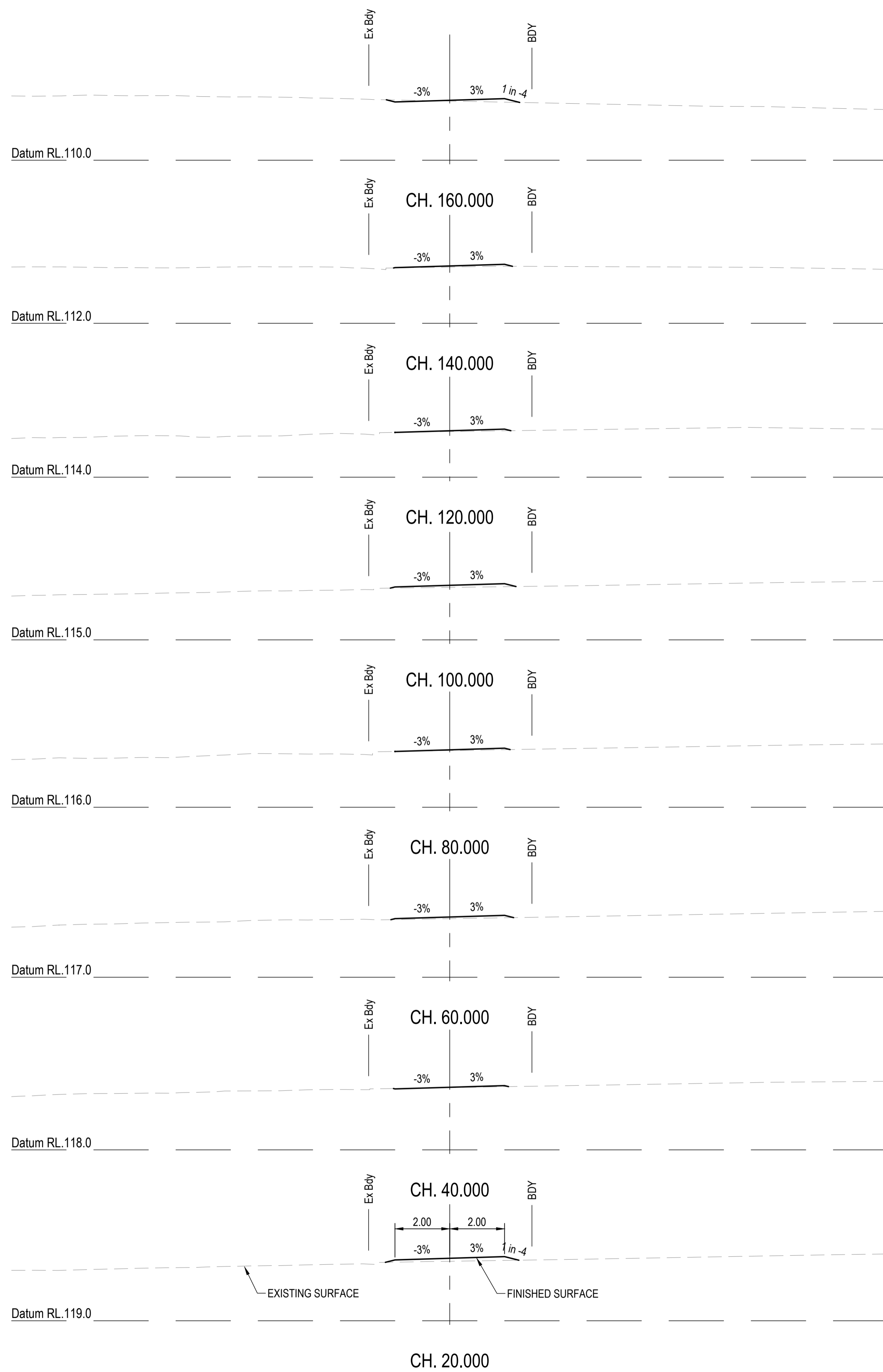
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PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 3 LONGITUDINAL SECTION - SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SIGNATURE: [Signature]
 DRAFTSPERSON: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No: BR242001
 DRAWING No: C4703
 REVISION: 2

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REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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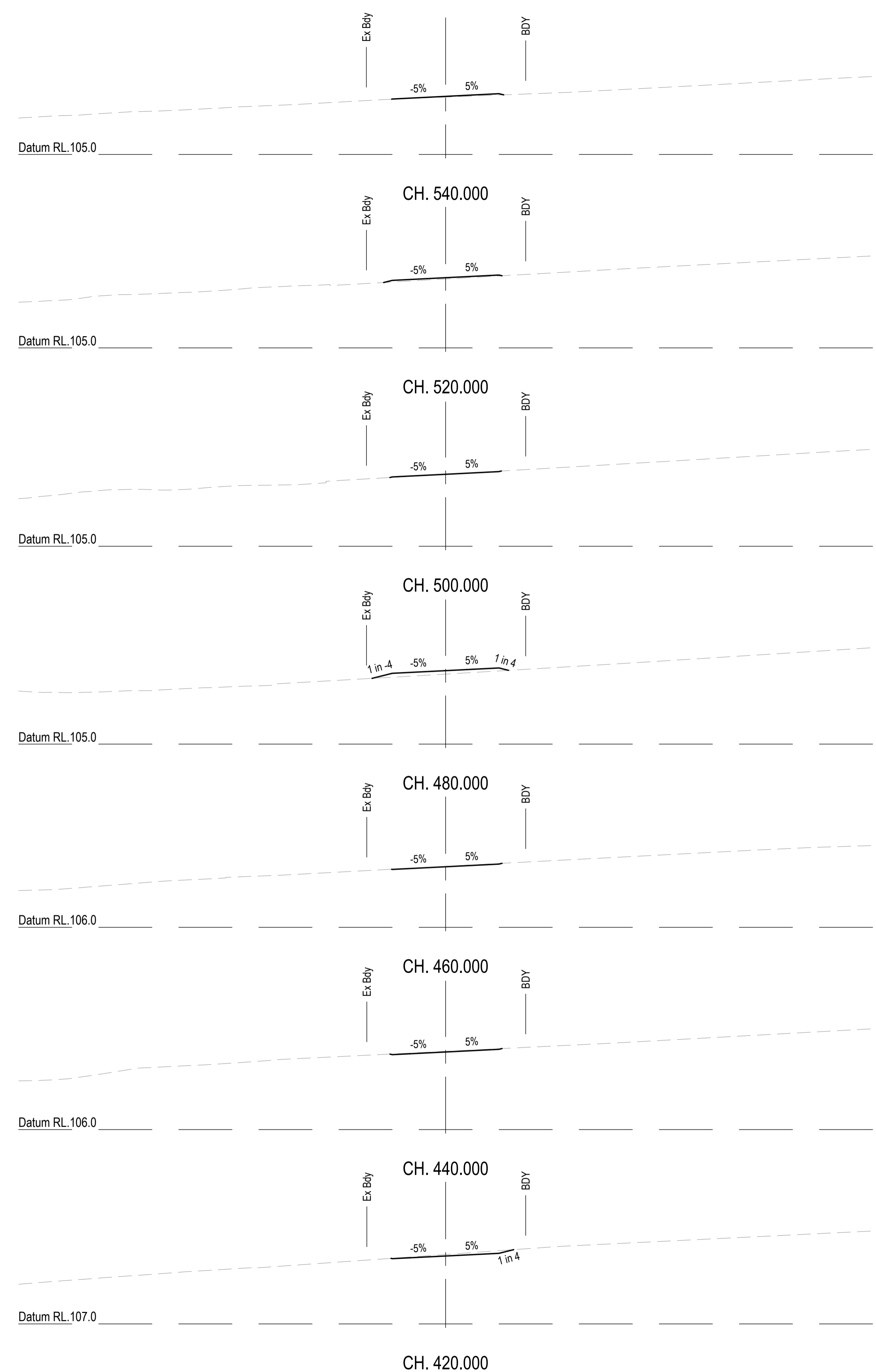
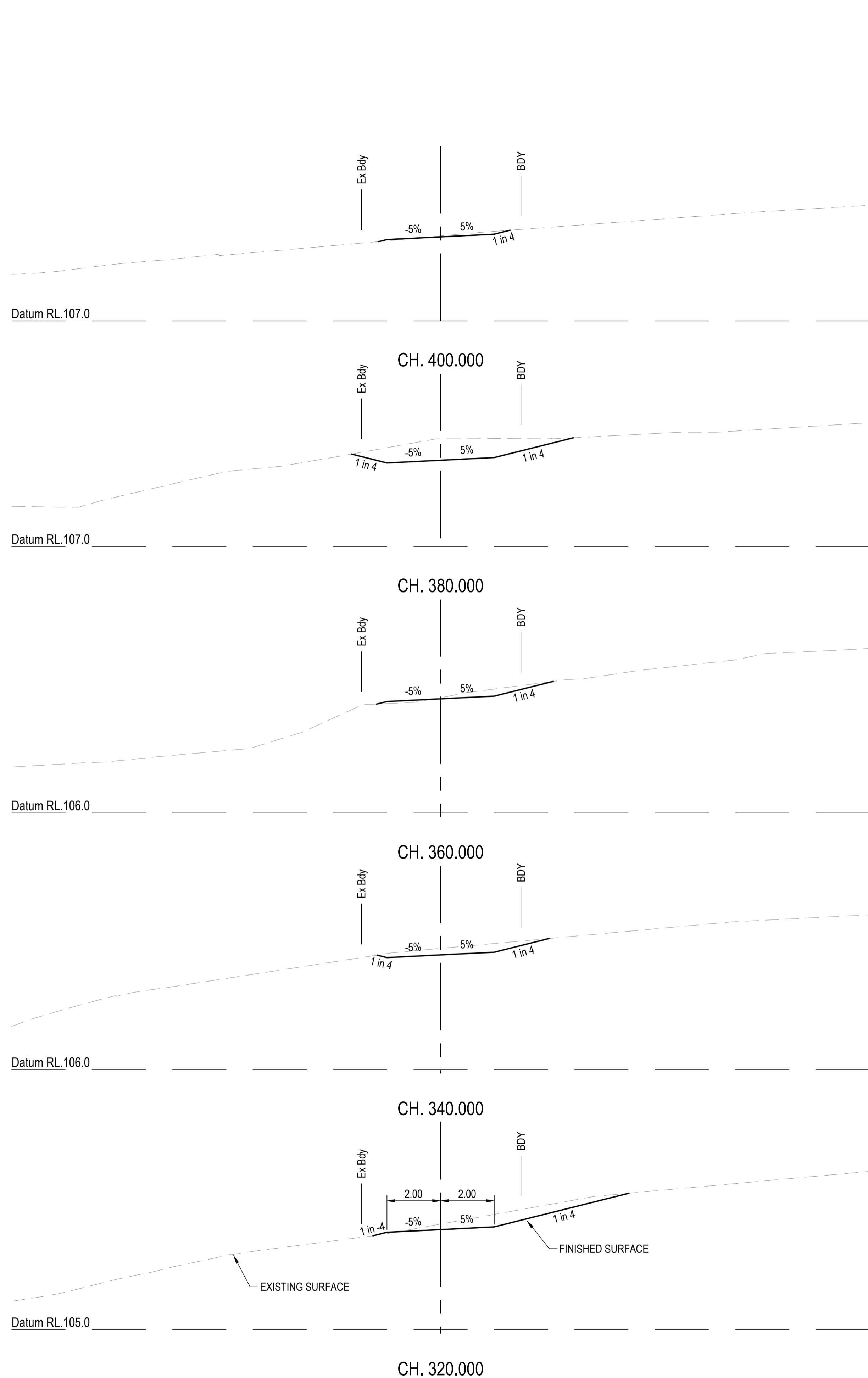
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SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 3
CROSS SECTIONS - SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4704	0	



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No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION

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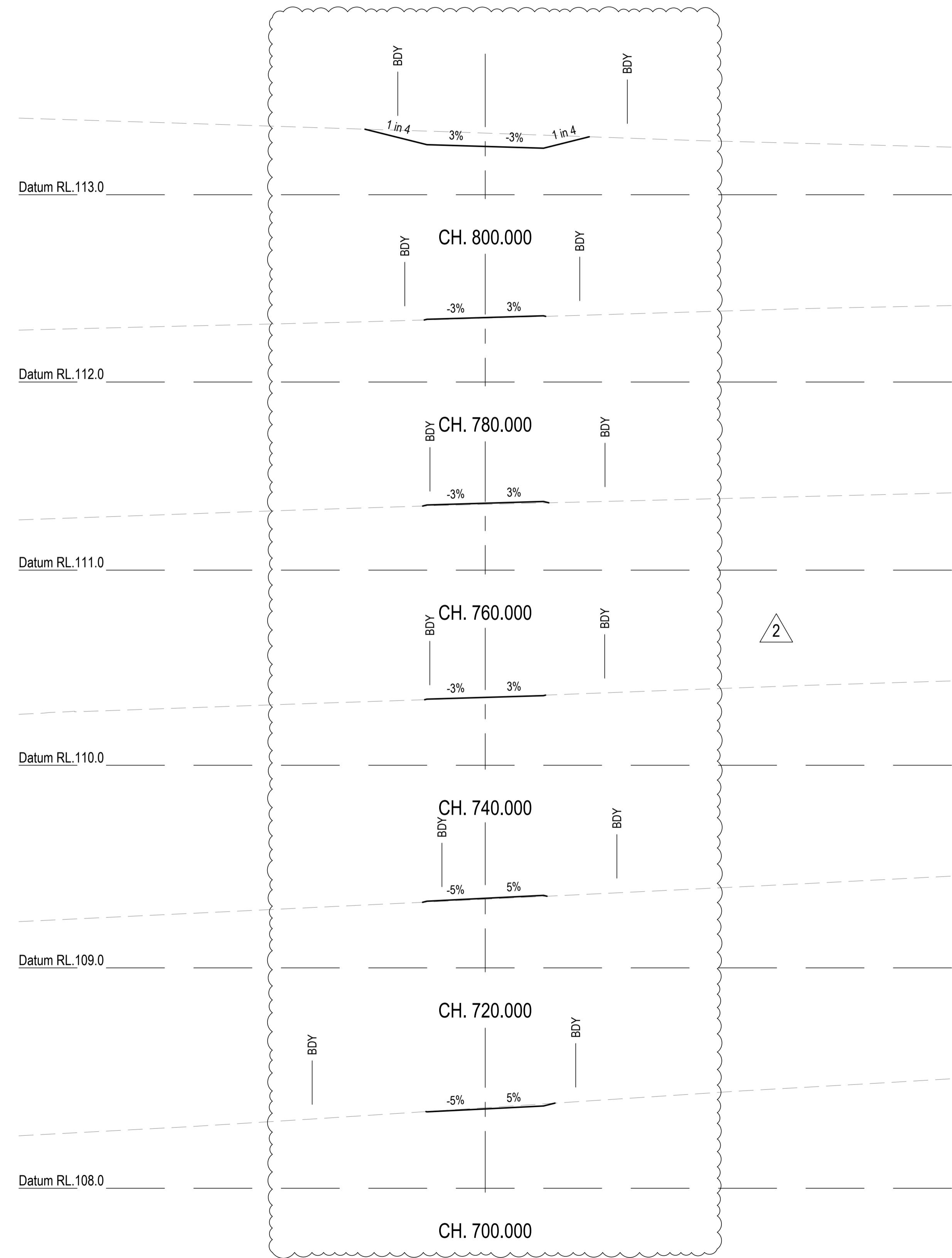
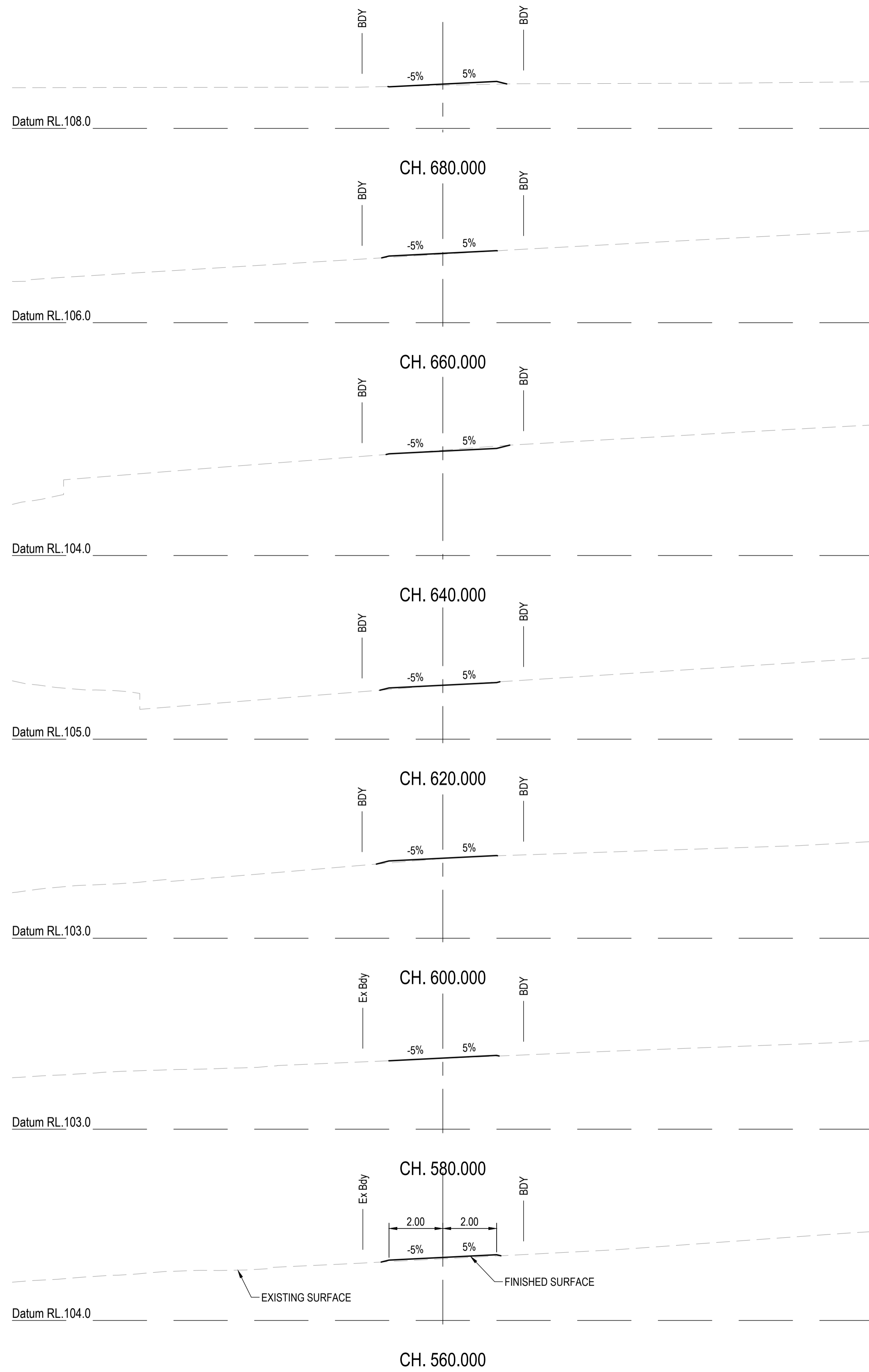
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SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 3
CROSS SECTIONS - SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4705	REVISION 0	



REVISIONS:			
No.	REVISION DESCRIPTION	DRAWN	DATE
2	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	20/01/25
1	STORMWATER BASIN AND FIRE TRIAL UPDATED	MP	31/10/24
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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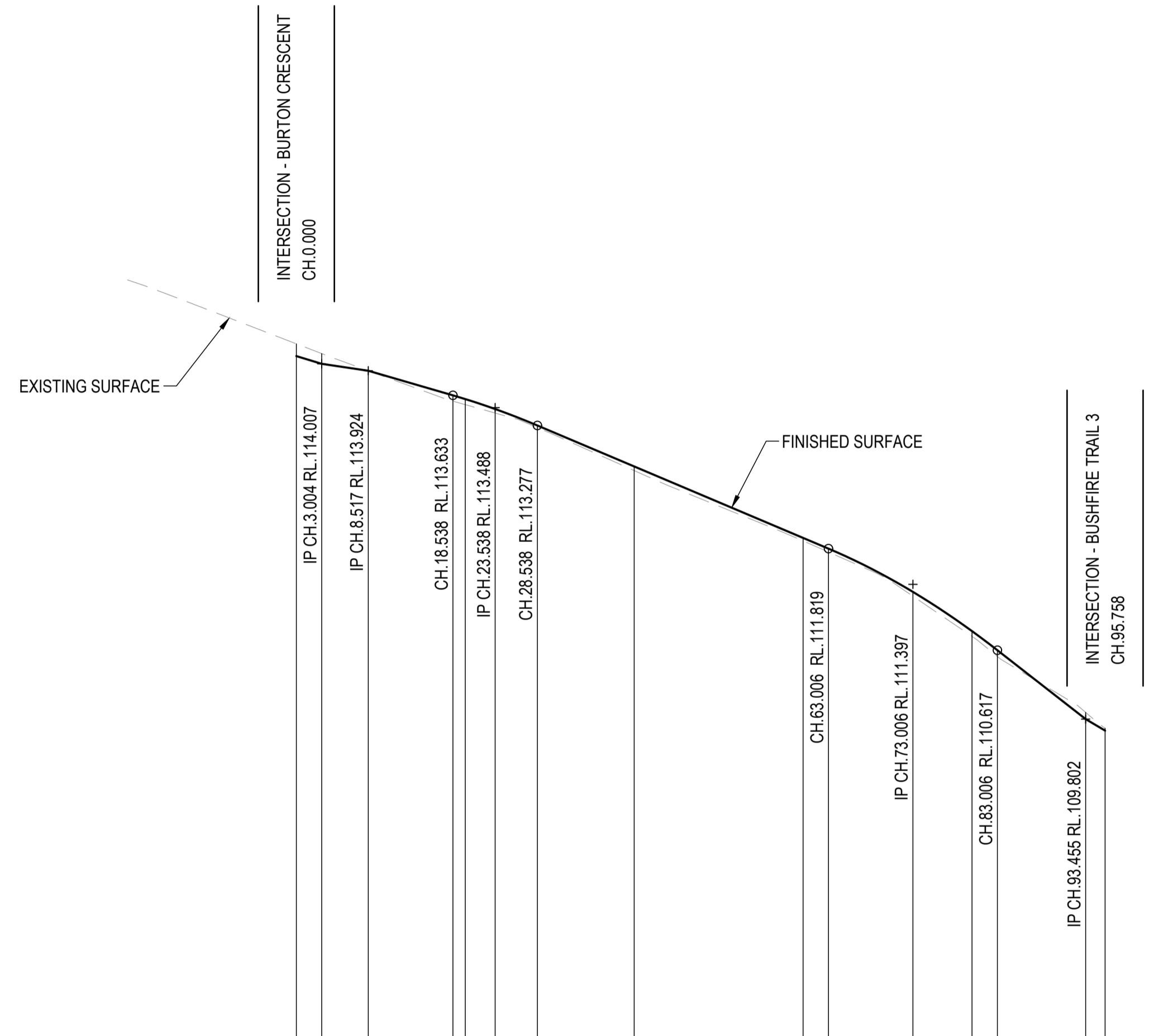
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SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 3
CROSS SECTIONS - SHEET 3

DRAWING STATUS ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4706	REVISION 2	



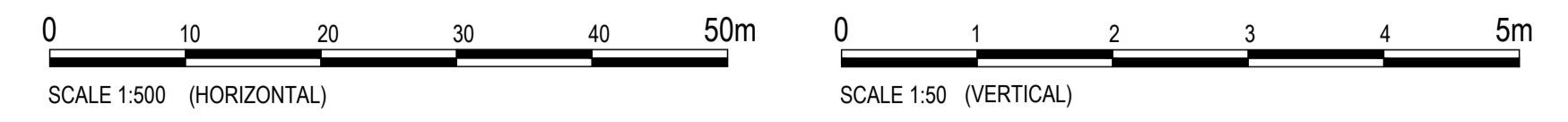
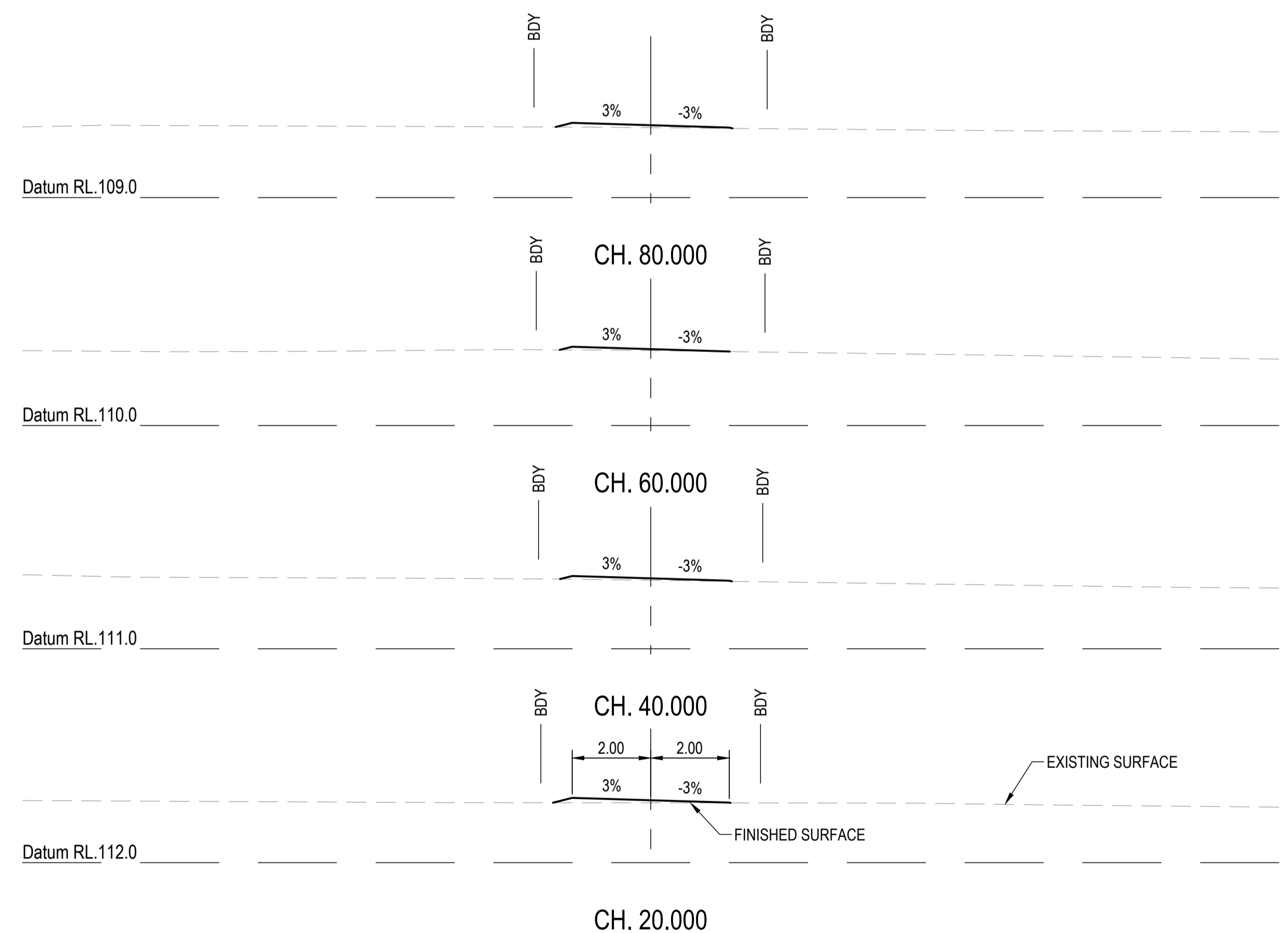
Horiz Curve Data

Vertical Geometry Grade (%)	-3.04%	-1.49%	-2.91%		-4.23%		-7.8%	-5.92%
Vertical Grade Length (m)	3.007m	5.514m	15.020m		49.468m		20.449m	2.309m
Vertical Curve Length (m)				10m VC		20m VC		
Vertical Curve Radius (m)				757m		560m		

DATUM R.L.103.000

	0.00	3.004	8.517	18.538	20.000	23.538	28.538	40.000	60.000	63.006	73.006	80.000	83.006	93.455	95.758
NATURAL SURFACE LEVELS	114.243	114.127	113.924	113.565	113.524	113.424	113.251	112.743	111.911	111.779	111.257	110.781	110.543	109.882	109.694
CUT / FILL DEPTH	-0.145	-0.121	0.000	0.068	0.066	0.047	0.025	0.049	0.035	0.040	0.051	0.063	0.074	-0.079	-0.028
DESIGN SURFACE LEVELS	114.098	114.007	113.924	113.633	113.589	113.471	113.277	112.792	111.947	111.819	111.308	110.843	110.617	109.802	109.666
CHAINAGE	0.00	3.004	8.517	18.538	20.000	23.538	28.538	40.000	60.000	63.006	73.006	80.000	83.006	93.455	95.758

LONGITUDINAL SECTION - BUSHFIRE TRIAL 4
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION

PARKLAKE
ADARE

MP	02/08/24
MP	02/08/24

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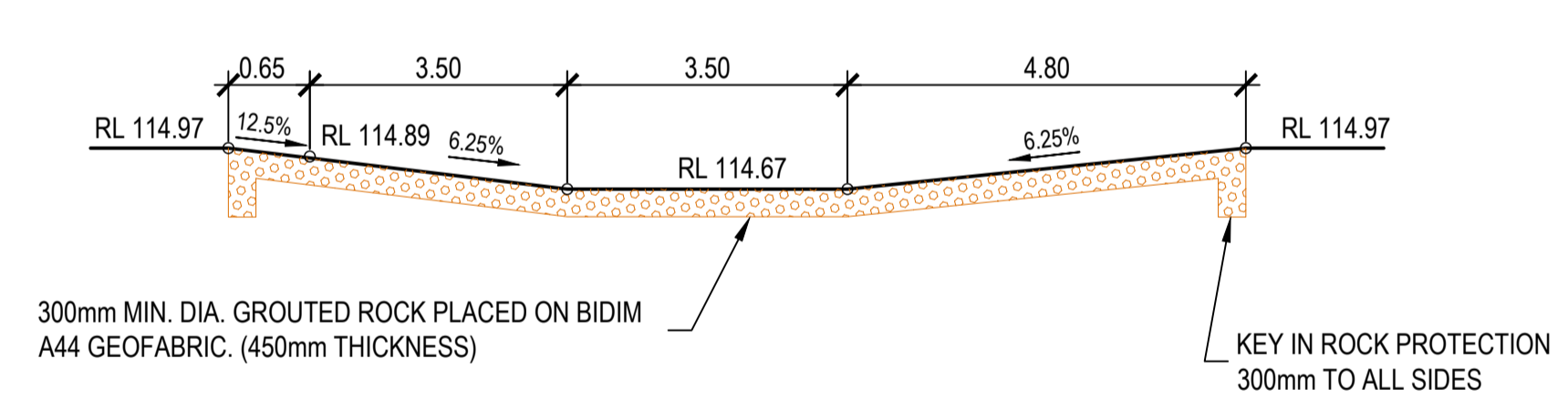
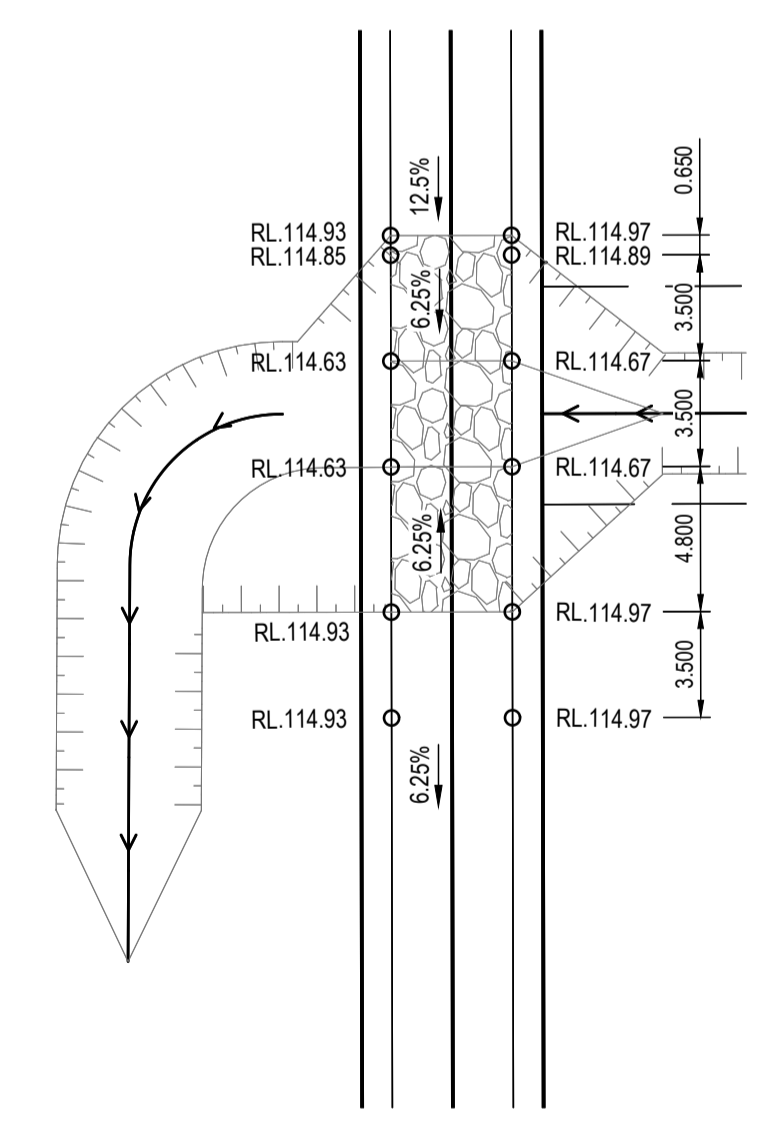
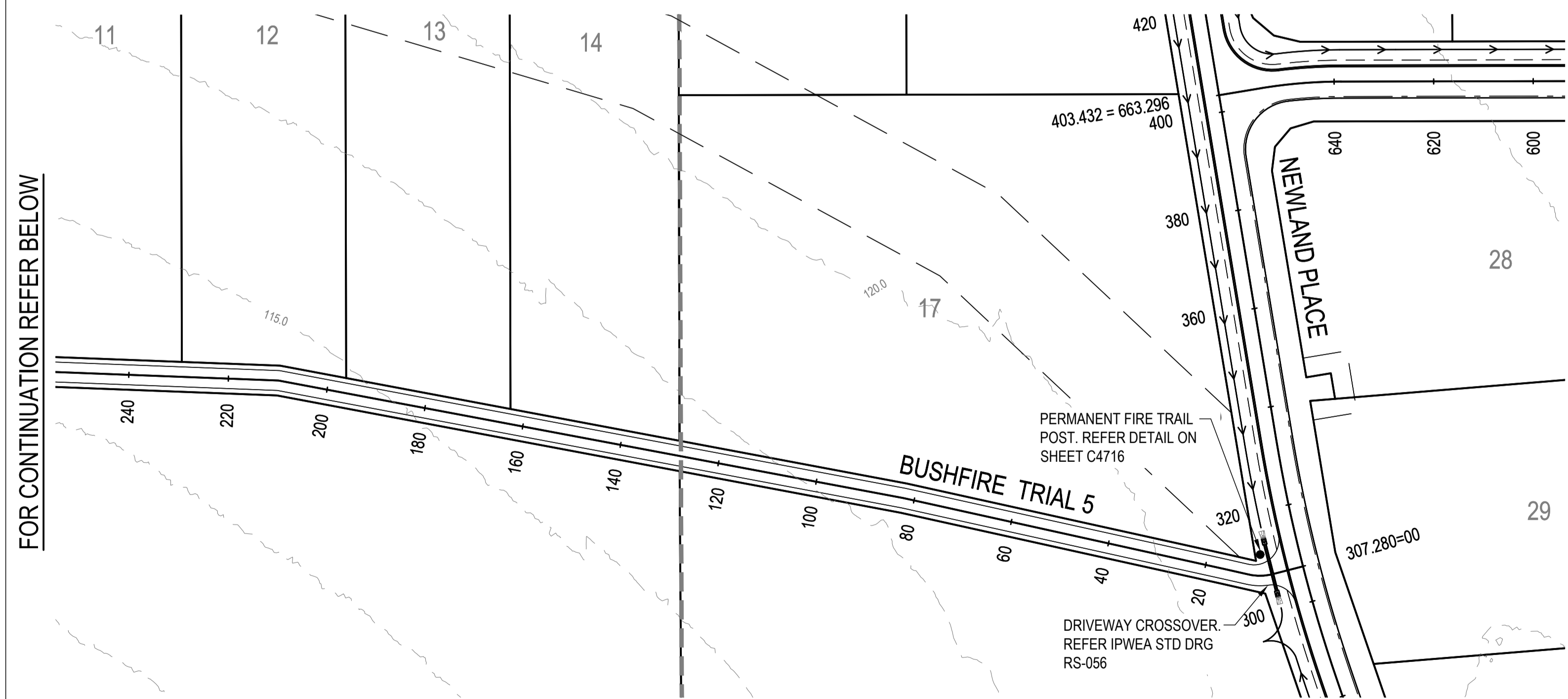
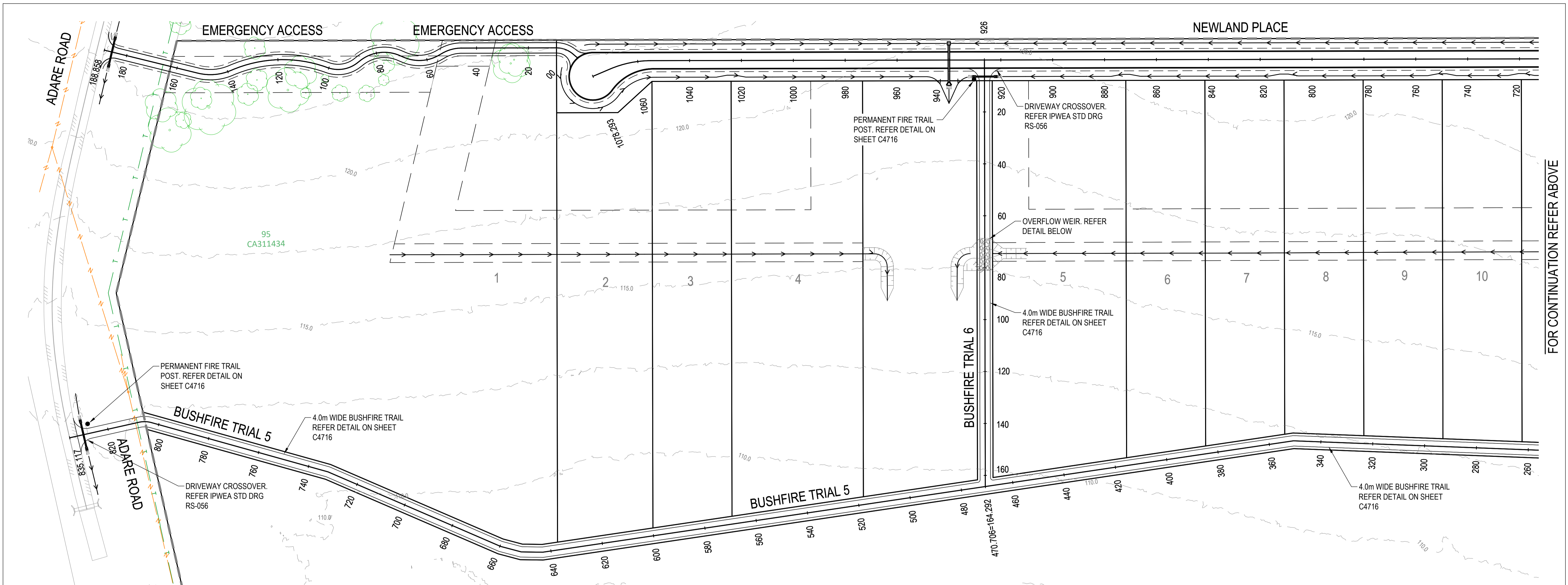
SCALE
 0 1 2 3 4 5m 10m
 SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 4 LONGITUDINAL AND CROSS SECTIONS

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24
JOB No. BR242001	DRAWING No. C4707	SHEET SIZE A1
		REVISION 0



LEGEND

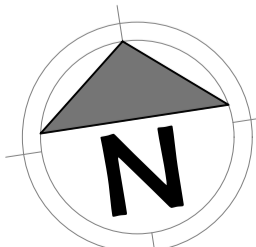
EXISTING	PROPOSED
--- FENCE	--- OPEN DRAIN
--- OPEN DRAIN	--- MOUNTABLE KERB TYPE M4
--- KERB AND CHANNEL	--- MOUNTABLE KERB TYPE M6
--- KERB ONLY	--- CONTOUR (0.5m)
--- CONTOUR (1.0m)	--- ROAD EDGE BITUMEN
--- ROAD EDGE BITUMEN	--- ROAD SHOULDER
○ TREE TO REMAIN	--- DRAINAGE
○ TREE TO BE REMOVED	

FOR CONTINUATION REFER BELOW

FOR CONTINUATION REFER ABOVE

REVISIONS:

No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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 www.vandermeer.com.au
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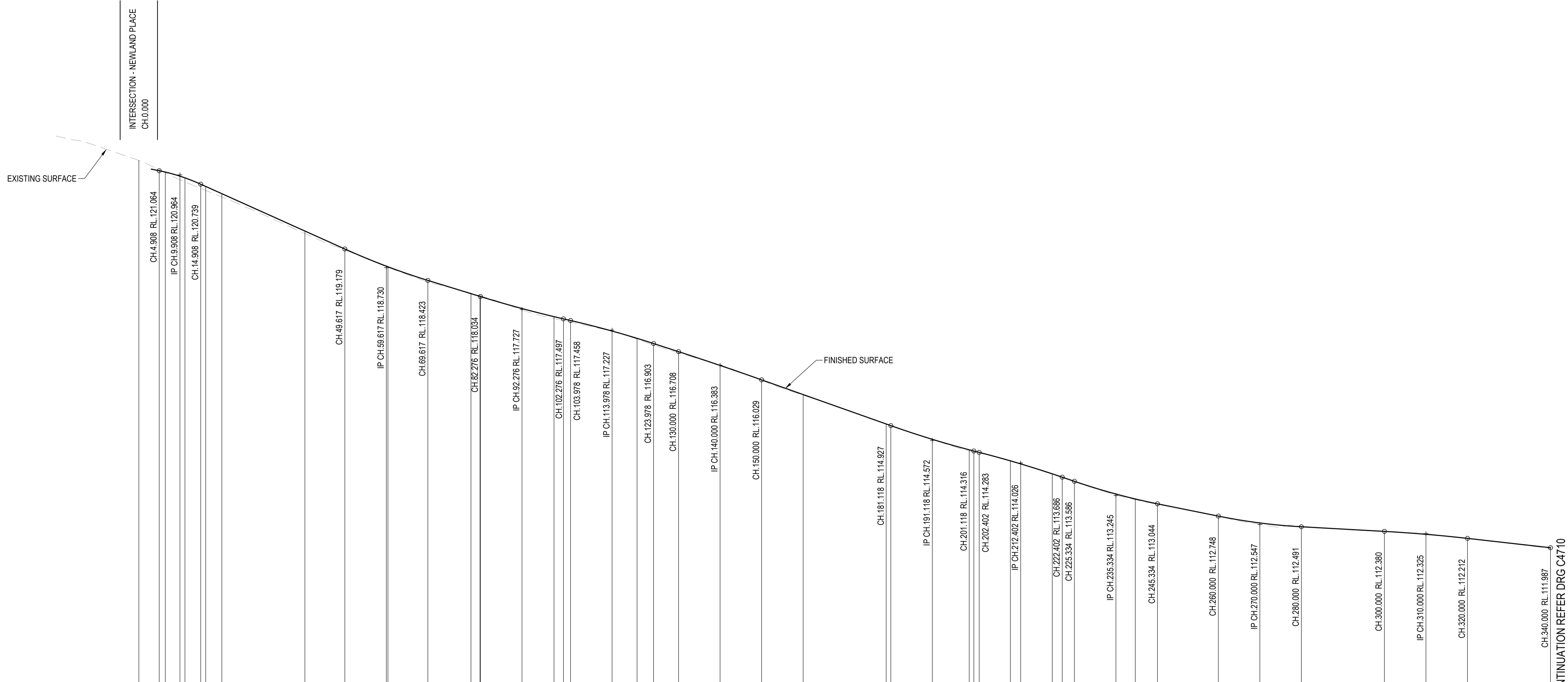
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 SCALE
 0 7.5 15 22.5 30 37.5m 75m
 SCALE 1:750

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 5 AND 6 PLAN

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

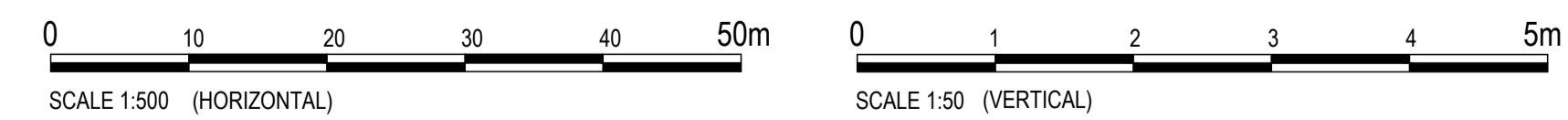
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4708	0	



CHAINAGE	DESIGN SURFACE LEVELS	CUT / FILL DEPTH	NATURAL SURFACE LEVELS
0.000			121.313
4.908	121.064	-0.020	121.084
6.365	121.032	0.019	121.013
9.908	120.933	0.087	120.846
11.107	120.892	0.097	120.795
14.908	120.739	0.100	120.639
16.114	120.685	0.095	120.590
20.000	120.510	0.078	120.432
40.000	119.612	0.064	119.547
49.617	119.179	0.020	119.160
59.617	118.766	0.015	118.750
60.000	118.751	0.016	118.735
69.617	118.423	0.043	118.380
80.000	118.104	-0.012	118.116
82.169	118.037	-0.017	118.055
82.276	118.034	-0.017	118.051
92.276	117.746	0.032	117.714
100.000	117.550	0.045	117.505
102.276	117.497	0.041	117.456
103.978	117.458	0.039	117.419
113.978	117.204	0.002	117.202
120.000	117.028	0.020	117.008
123.978	116.903	0.037	116.866
130.000	116.708	0.028	116.679
140.000	116.376	-0.007	116.383
150.000	116.029	0.010	116.019
160.000	115.675	0.016	115.659
180.000	114.966	0.000	114.966
181.118	114.927	0.001	114.926
191.118	114.597	0.001	114.595
200.000	114.345	0.031	114.314
201.118	114.316	0.024	114.292
202.402	114.283	0.016	114.267
209.918	114.078	-0.013	114.091
212.402	114.005	-0.000	114.006
220.000	113.766	0.012	113.754
222.402	113.686	0.011	113.674
225.334	113.586	0.011	113.575
235.334	113.280	0.028	113.252
240.000	113.161	0.018	113.143
245.334	113.044	0.011	113.033
260.000	112.748	0.003	112.746
270.000	112.583	0.036	112.547
280.000	112.491	-0.014	112.505
300.000	112.380	0.004	112.377
310.000	112.310	-0.014	112.325
320.000	112.212	0.001	112.212
340.000	111.987	0.016	111.971

Horiz Curve Data
 Vertical Geometry Grade (%)
 Vertical Grade Length (m)
 Vertical Curve Length (m)
 Vertical Curve Radius (m)
 DATUM R.L. 106.000

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



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 P. INQUIRY: AK

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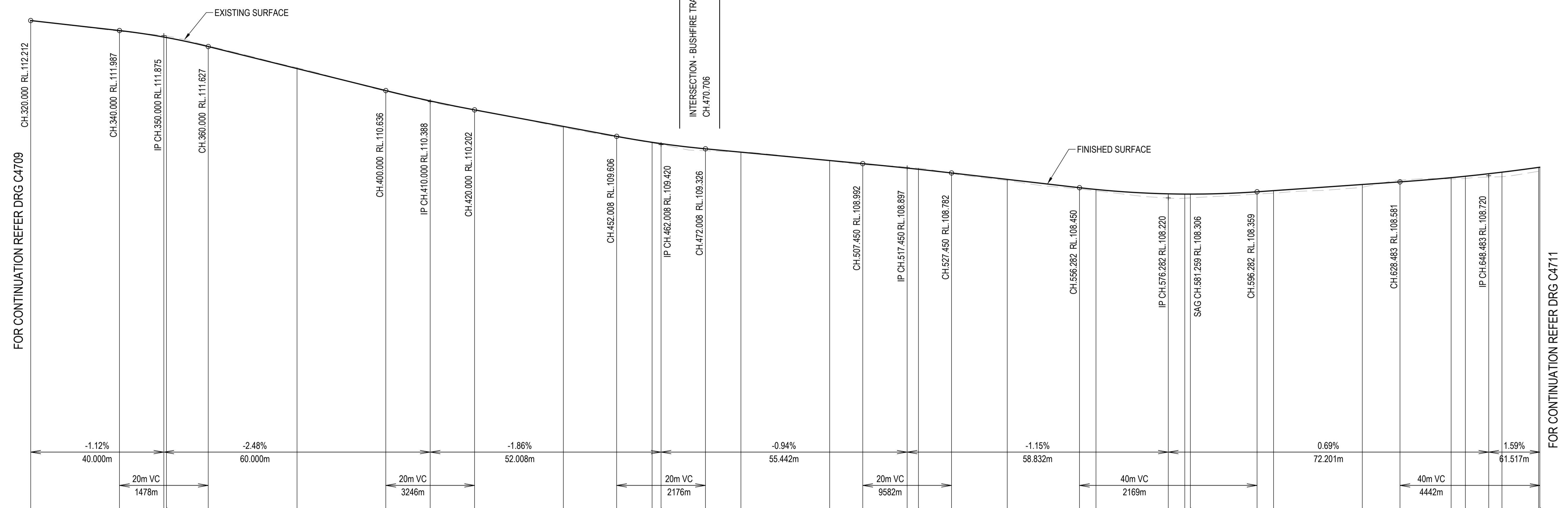
PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 1

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION

PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4709	0	

FOR CONTINUATION REFER DRG C4710



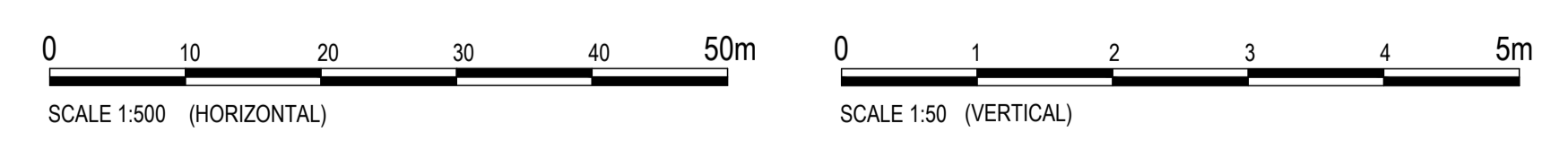
FOR CONTINUATION REFER DRG C4709

FOR CONTINUATION REFER DRG C4711

Horiz Curve Data
Vertical Geometry Grade (%)
Vertical Grade Length (m)
Vertical Curve Length (m)
Vertical Curve Radius (m)
DATUM R.L.101.000

	320.000	340.000	350.000	350.579	360.000	380.000	400.000	410.000	420.000	440.000	452.008	460.000	462.008	472.008	480.000	500.000	507.450	517.450	520.000	527.450	540.000	556.282	560.000	576.282	580.000	581.259	596.282	600.000	620.000	628.483	640.000	643.216	648.483	651.458	659.720	660.000
NATURAL SURFACE LEVELS	112.212	111.971	111.875	111.869	111.645	111.151	110.623	110.388	110.207	109.805	109.593	109.458	109.424	109.283	109.254	109.059	108.968	108.912	108.889	108.772	108.611	108.422	108.380	108.218	108.215	108.222	108.306	108.330	108.461	108.620	108.648	108.659	108.690	108.697	108.820	108.825
CUT / FILL DEPTH	0.001	0.016	-0.034	-0.039	-0.018	-0.020	0.013	0.015	-0.005	0.025	0.013	0.014	0.019	0.043	-0.003	0.003	0.024	-0.020	-0.024	0.010	0.026	0.029	0.031	0.094	0.092	0.085	0.052	0.055	0.062	-0.039	0.029	0.049	0.075	0.103	0.088	0.087
DESIGN SURFACE LEVELS	112.212	111.987	111.841	111.830	111.627	111.131	110.636	110.404	110.202	109.830	109.606	109.472	109.443	109.326	109.250	109.062	108.992	108.892	108.865	108.762	108.638	108.450	108.411	108.312	108.307	108.306	108.359	108.384	108.523	108.581	108.676	108.708	108.765	108.800	108.908	108.912
CHAINAGE	320.000	340.000	350.000	350.579	360.000	380.000	400.000	410.000	420.000	440.000	452.008	460.000	462.008	472.008	480.000	500.000	507.450	517.450	520.000	527.450	540.000	556.282	560.000	576.282	580.000	581.259	596.282	600.000	620.000	628.483	640.000	643.216	648.483	651.458	659.720	660.000

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



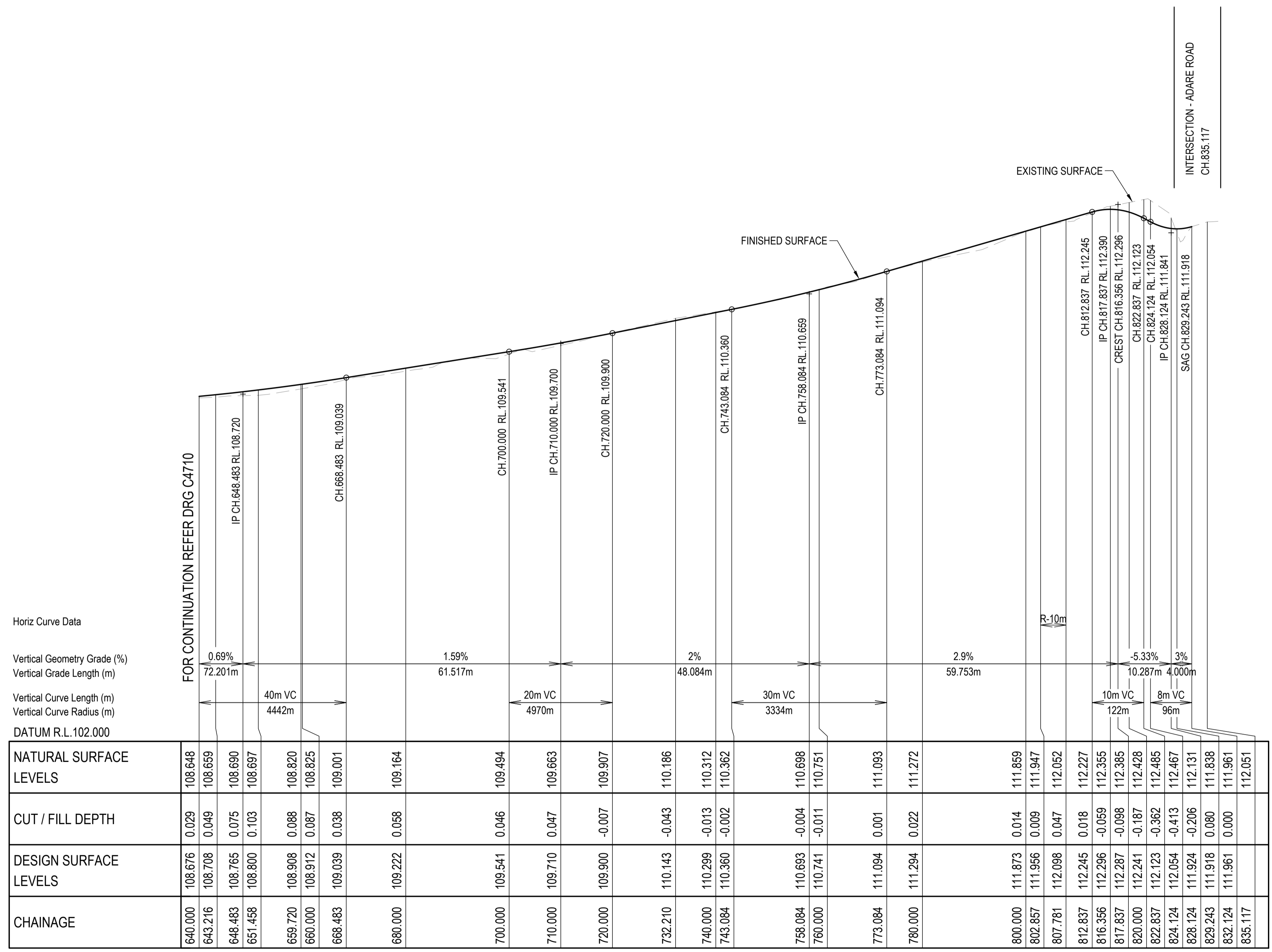
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PO BOX 4107 SPRINGFIELD QLD 4300
SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5
DRAWING TITLE
BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 2

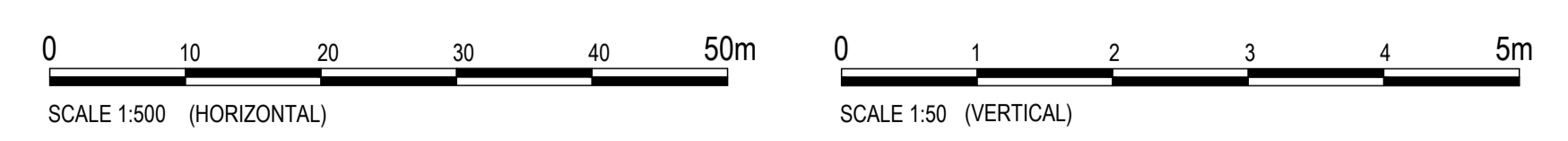
DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION
PROJECT LEADER
CK
DESIGNER
MP
SIGNATURE
DATE
29/08/24
SCALE
AS SHOWN
SHEET SIZE
A1
JOB No.
BR242001
DRAWING No.
C4710
REVISION
0



Horiz Curve Data
 Vertical Geometry Grade (%)
 Vertical Grade Length (m)
 Vertical Curve Length (m)
 Vertical Curve Radius (m)
 DATUM R.L. 102.000

CHAINAGE	NATURAL SURFACE LEVELS	CUT / FILL DEPTH	DESIGN SURFACE LEVELS
640.000	108.648	0.029	108.676
643.216	108.659	0.049	108.708
648.483	108.690	0.075	108.765
651.458	108.697	0.103	108.800
659.720	108.820	0.088	108.908
660.000	108.825	0.087	108.912
668.483	109.001	0.038	109.039
680.000	109.164	0.058	109.222
700.000	109.494	0.046	109.541
710.000	109.663	0.047	109.710
720.000	109.907	-0.007	109.900
732.210	110.186	-0.043	110.143
740.000	110.312	-0.013	110.299
743.084	110.362	-0.002	110.360
758.084	110.698	-0.004	110.693
760.000	110.751	-0.011	110.741
773.084	111.093	0.001	111.094
780.000	111.272	0.022	111.294
800.000	111.859	0.014	111.873
802.857	111.947	0.009	111.956
807.781	112.052	0.047	112.098
812.837	112.227	0.018	112.245
815.356	112.355	-0.059	112.296
817.837	112.385	-0.098	112.287
820.000	112.428	-0.187	112.241
822.837	112.485	-0.362	112.123
824.124	112.467	-0.413	112.054
828.124	112.131	-0.206	111.924
829.243	111.838	0.080	111.918
832.124	111.961	0.000	111.961
835.117	112.051		

LONGITUDINAL SECTION - BUSHFIRE TRIAL 5
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



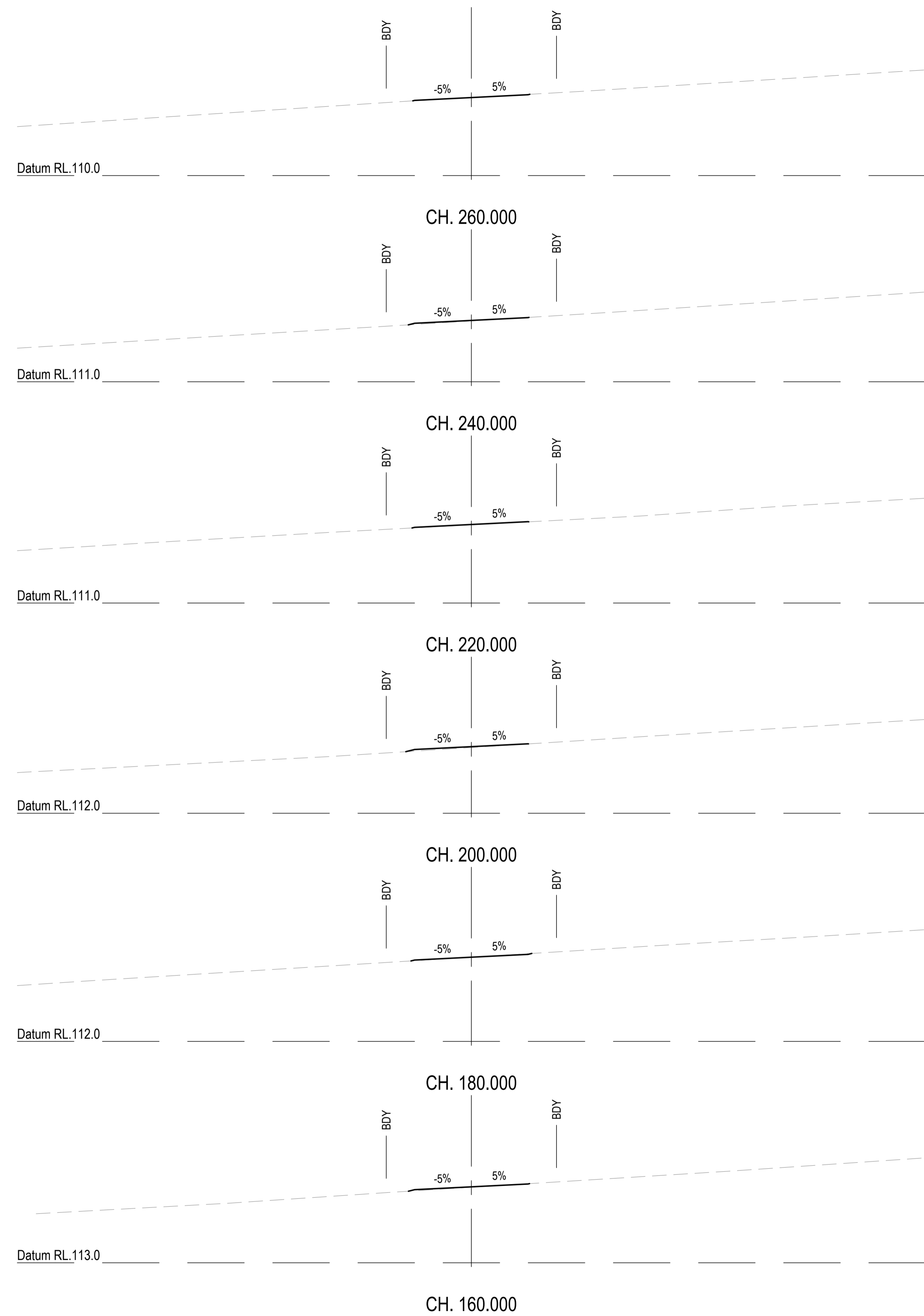
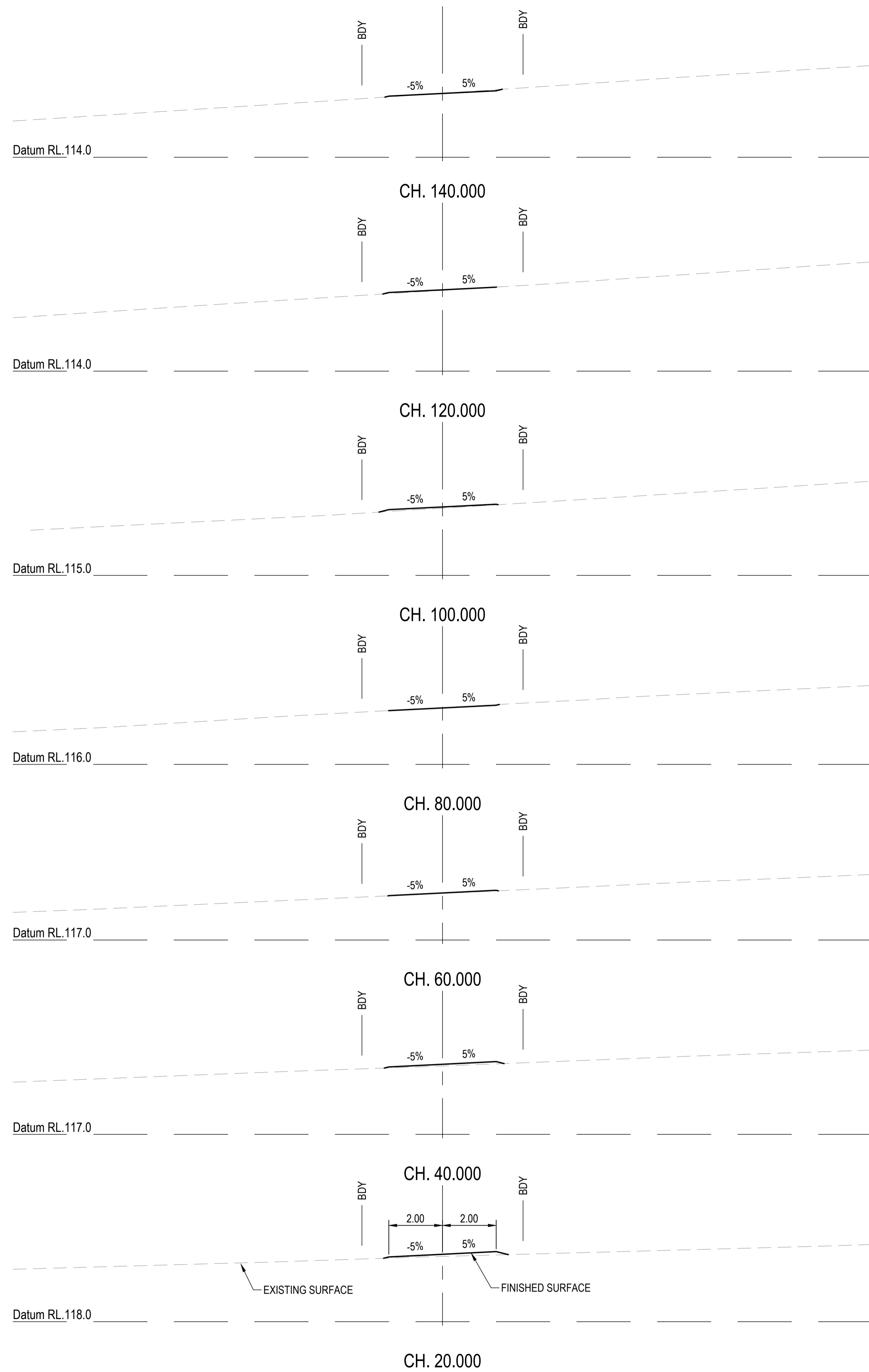
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 PO BOX 4107 SPRINGFIELD QLD 4300
 SCALE

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 5 LONGITUDINAL SECTION - SHEET 3

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SIGNATURE: [Signature]
 DRAFTSPERSON: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No: BR242001
 DRAWING No: C4711
 REVISION: 0



REVISIONS:		No.	REVISION DESCRIPTION	MP	02/08/24
0	ISSUED FOR CONSTRUCTION				



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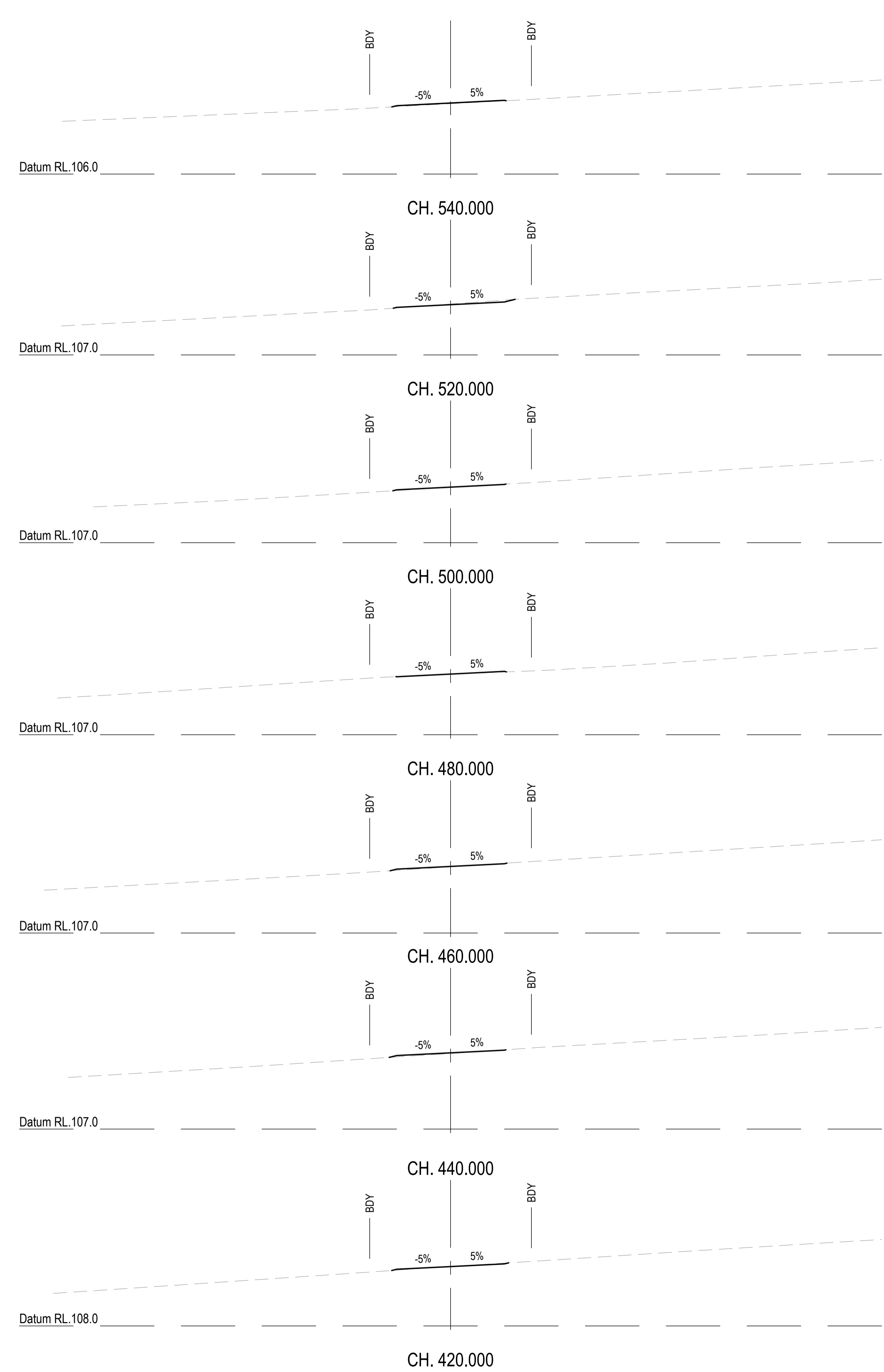
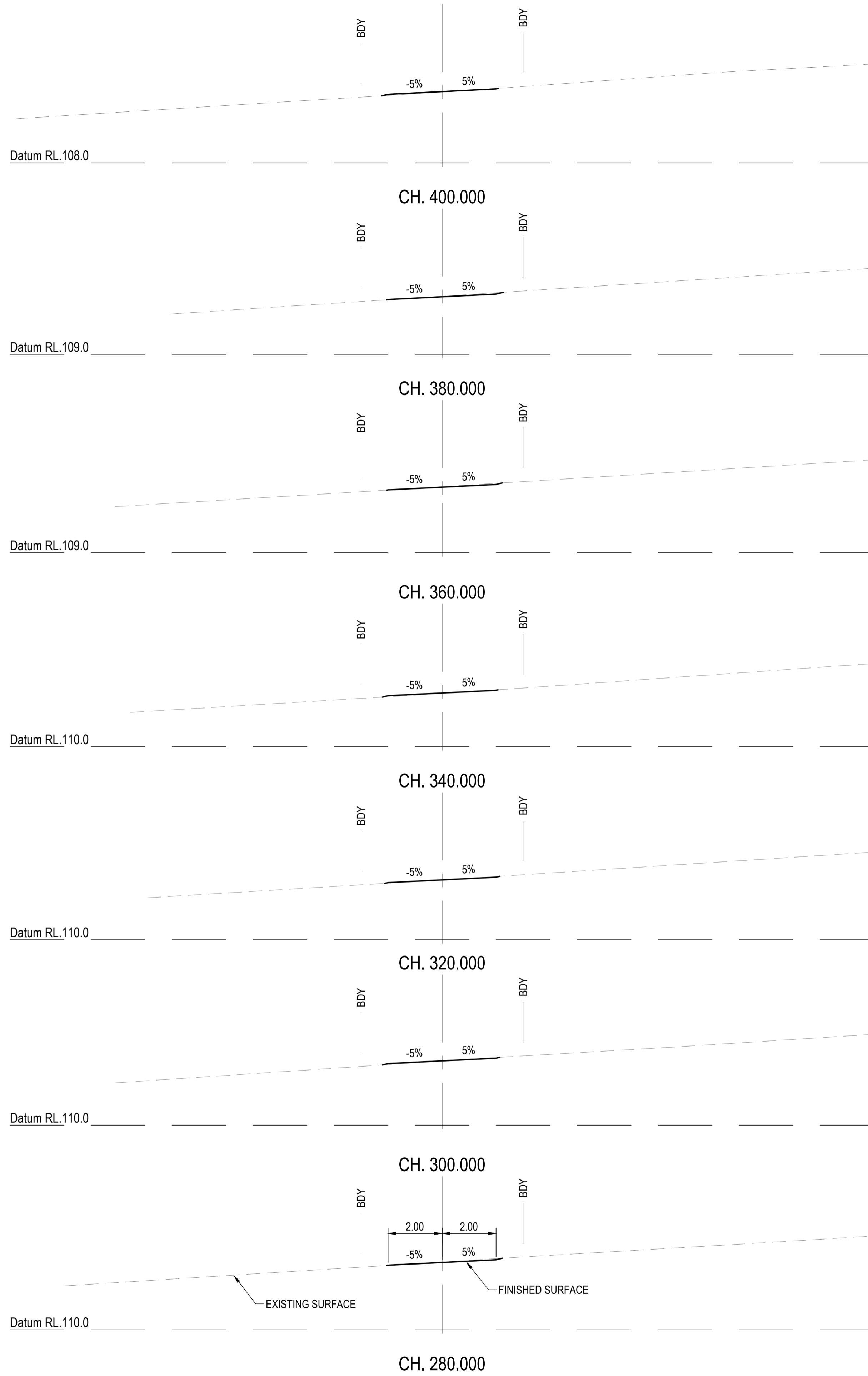
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 SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRAIL 5
CROSS SECTIONS - SHEET 1

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4712	0	



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No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION

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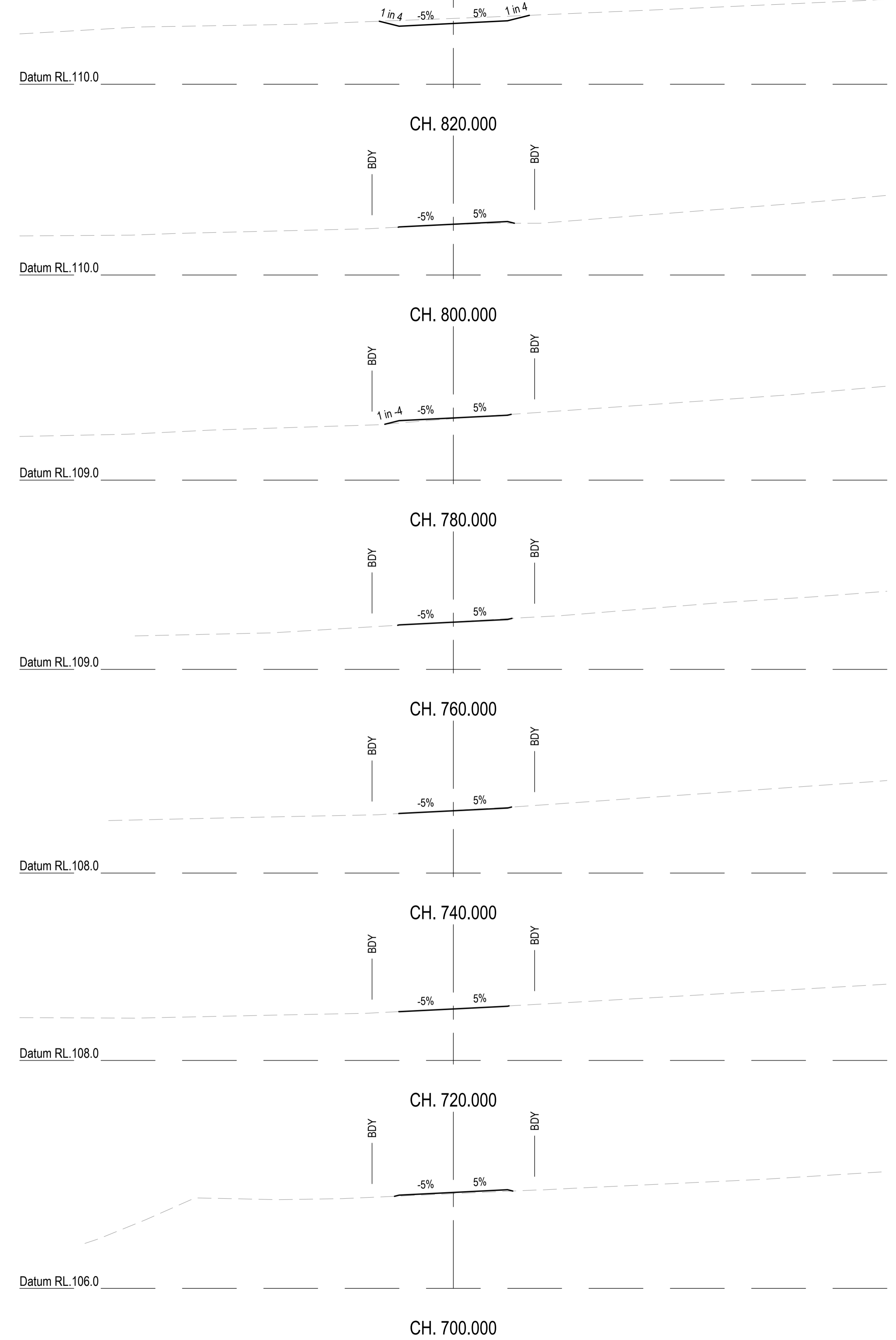
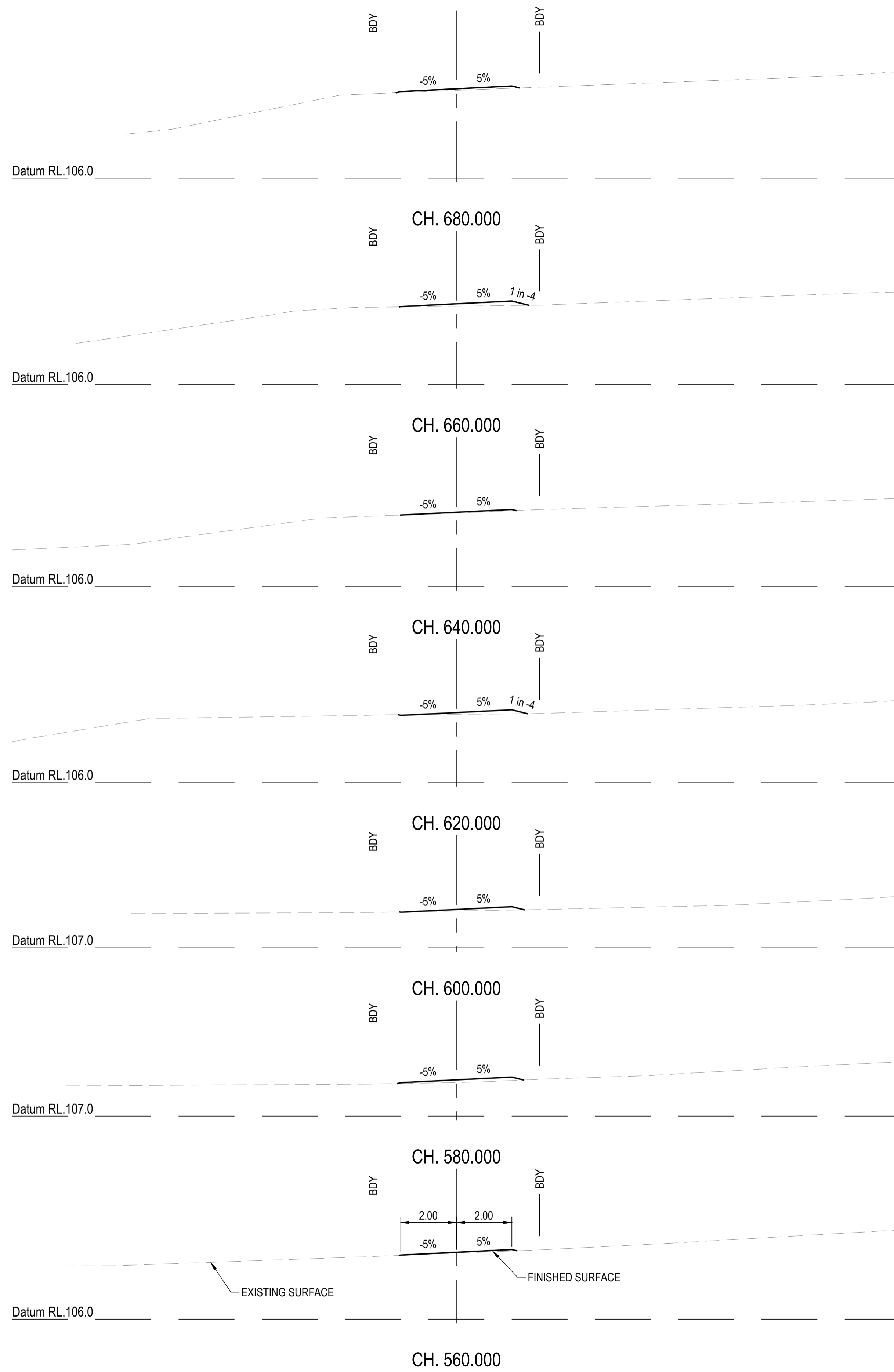
CLIENT
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PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 5
CROSS SECTIONS - SHEET 2

DRAWING STATUS			
ORIGINAL ISSUE FOR CONSTRUCTION			
PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4713	REVISION 0	



REVISIONS:			
No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION	MP	02/08/24



van der Meer Consulting

www.vandermeer.com.au
van der Meer (QLD) Pty Ltd
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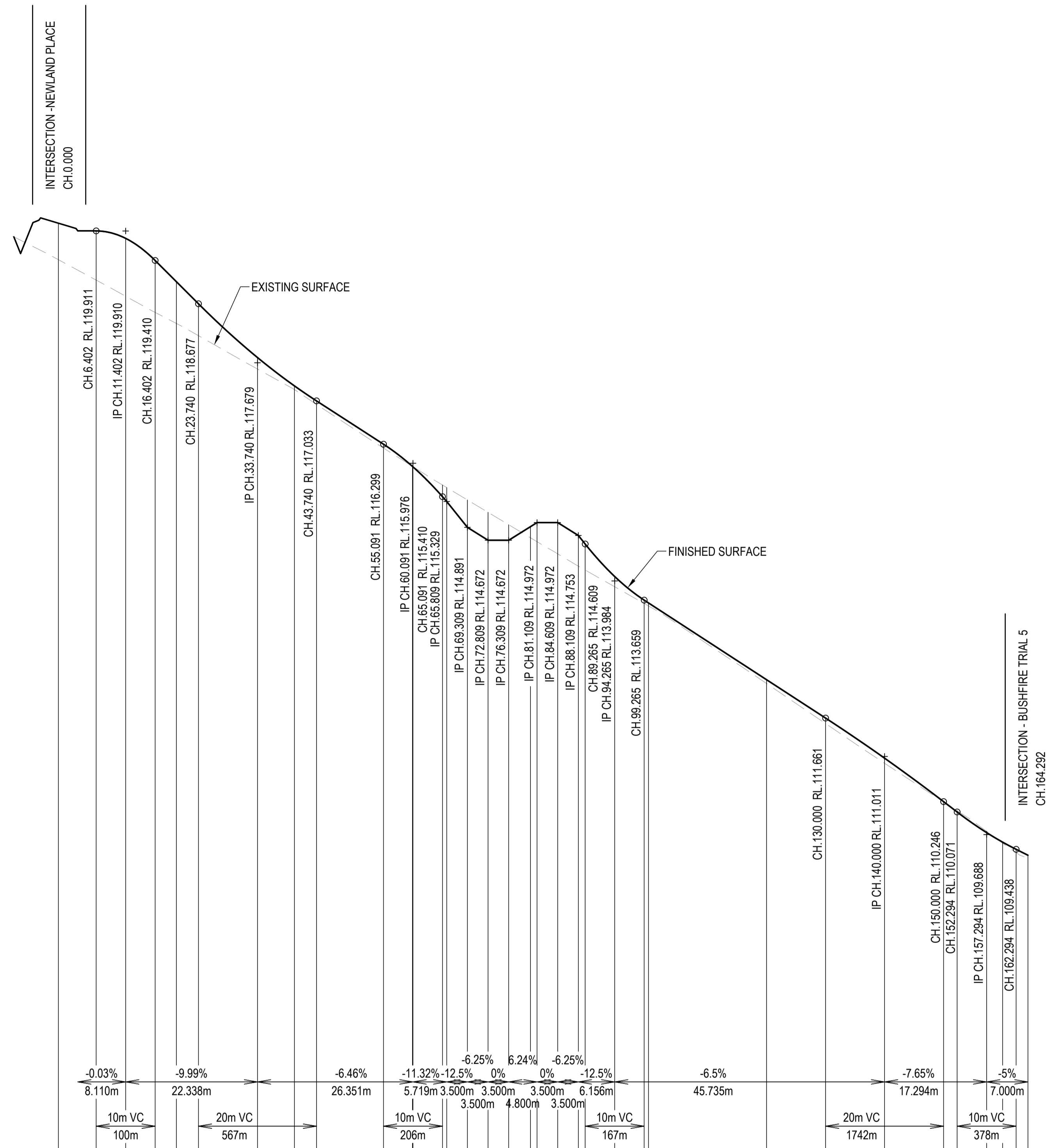
CLIENT
PARK LAKE ADARE PTY LTD
PO BOX 4107 SPRINGFIELD QLD 4300

SCALE
0 1 2 3 4 5m 10m
SCALE 1:100

PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING TITLE
BUSHFIRE TRAIL 5
CROSS SECTIONS - SHEET 3

DRAWING STATUS			
ORIGINAL ISSUE			
FOR CONSTRUCTION			
PROJECT LEADER	DESIGNER	SIGNATURE	
CK	MP		
DRAFTSPERSON	SCALE	DATE	SHEET SIZE
MP	AS SHOWN	29/08/24	A1
JOB No.	DRAWING No.	REVISION	
BR242001	C4714	0	

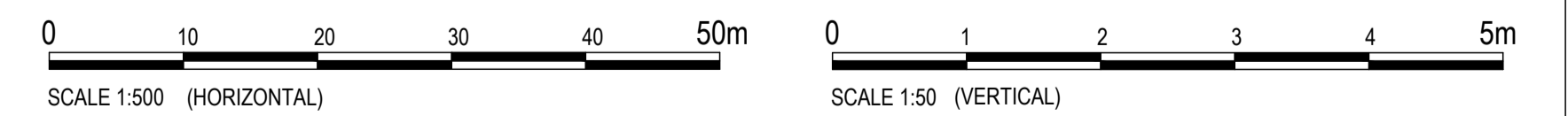
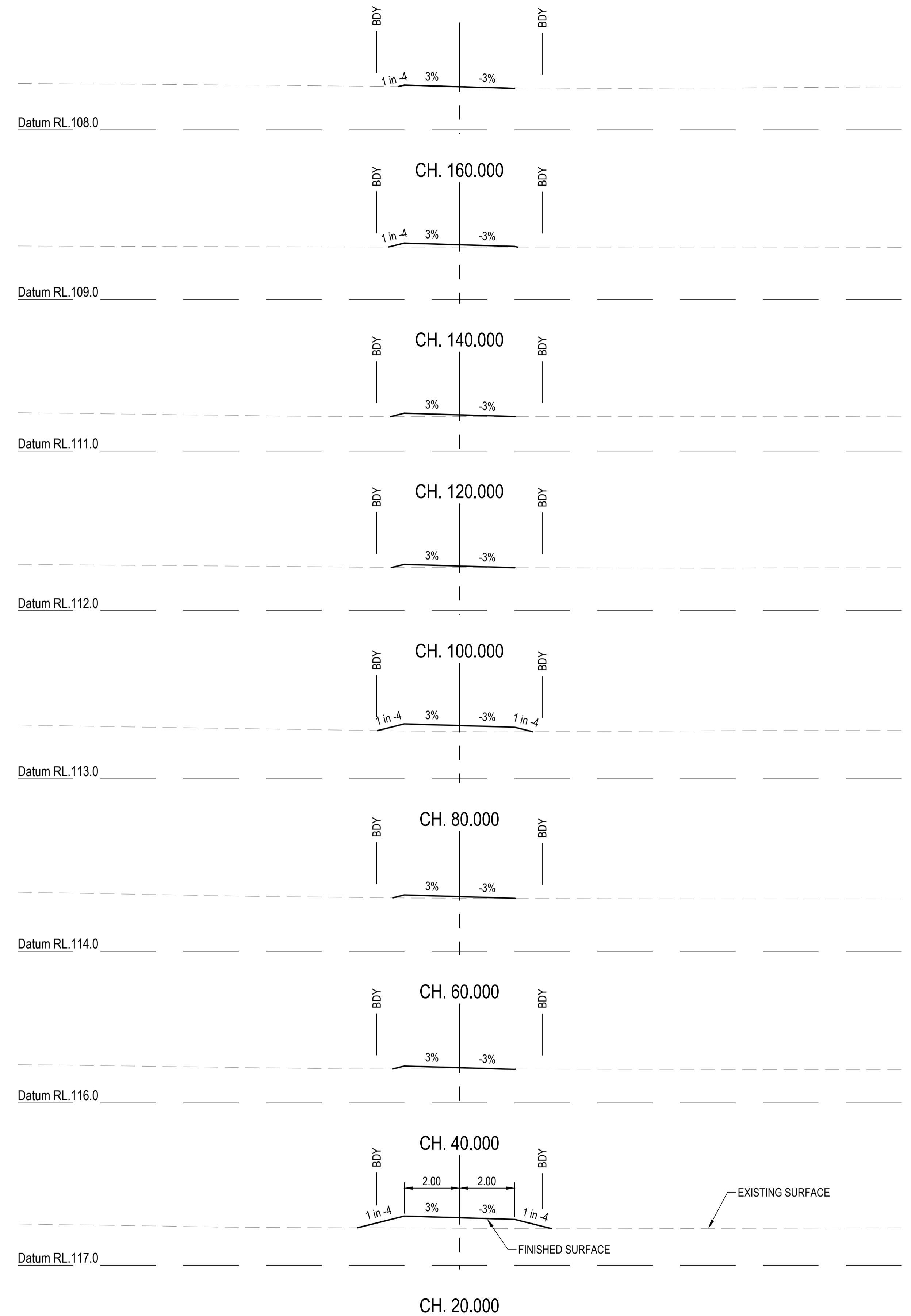


Horiz Curve Data

Vertical Geometry Grade (%)	-0.03%	-9.99%	-6.46%	-11.32%	-12.5%	0%	6.24%	0%	-6.25%	-6.5%	-7.65%	-5%
Vertical Grade Length (m)	8.110m	22.338m	26.351m	5.719m	3.500m	3.500m	4.800m	3.500m	6.156m	45.735m	17.294m	7.000m
Vertical Curve Length (m)	10m VC	20m VC	10m VC	10m VC	10m VC	10m VC	10m VC	10m VC	10m VC	20m VC	10m VC	10m VC
Vertical Curve Radius (m)	100m	567m	206m	206m	206m	206m	206m	206m	206m	1742m	378m	378m

DATUM R.L. 104.000	0.000	6.402	11.402	16.402	20.000	23.740	33.740	40.000	43.740	55.091	60.000	60.091	65.091	65.809	69.309	72.809	76.309	80.000	81.109	88.109	89.265	94.265	99.265	100.000	120.000	130.000	140.000	150.000	152.294	157.294	160.000	162.294	164.292	
NATURAL SURFACE LEVELS	119.424	119.079	118.805	118.530	118.344	118.137	117.572	117.225	116.973	116.234	115.924	115.918	115.608	115.565	115.355	115.145	114.936	114.714	114.648	114.443	114.234	114.168	113.885	113.602	113.560	112.247	111.569	110.896	110.239	110.092	109.743	109.542	109.382	109.288
CUT / FILL DEPTH		0.833	0.980	0.880	0.707	0.541	0.195	0.062	0.060	0.066	-0.001	-0.003	-0.198	-0.236	-0.464	-0.473	-0.263	0.189	0.324	0.529	0.519	0.440	0.174	0.057	0.051	0.064	0.092	0.086	0.007	-0.021	-0.022	0.018	0.056	0.051
DESIGN SURFACE LEVELS		119.911	119.785	119.410	119.051	118.677	117.767	117.286	117.033	116.299	115.924	115.916	115.329	115.329	114.891	114.672	114.672	114.903	114.972	114.972	114.753	114.609	114.059	113.659	113.611	112.311	111.661	110.982	110.246	110.071	109.721	109.560	109.438	109.338
CHAINAGE	0.000	6.402	11.402	16.402	20.000	23.740	33.740	40.000	43.740	55.091	60.000	60.091	65.091	65.809	69.309	72.809	76.309	80.000	81.109	88.109	89.265	94.265	99.265	100.000	120.000	130.000	140.000	150.000	152.294	157.294	160.000	162.294	164.292	

LONGITUDINAL SECTION - BUSHFIRE TRIAL 6
 HORIZONTAL SCALE 1:500
 VERTICAL SCALE 1:50



REVISIONS:	No.	REVISION DESCRIPTION	MP	DATE
0	ISSUED FOR CONSTRUCTION		MP	02/08/24



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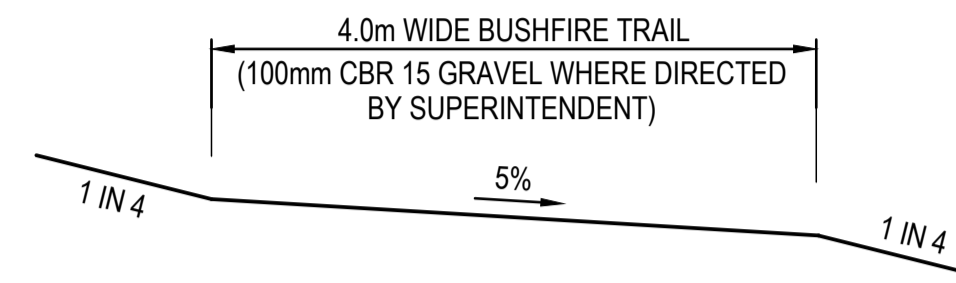
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 SCALE

 SCALE 1:100

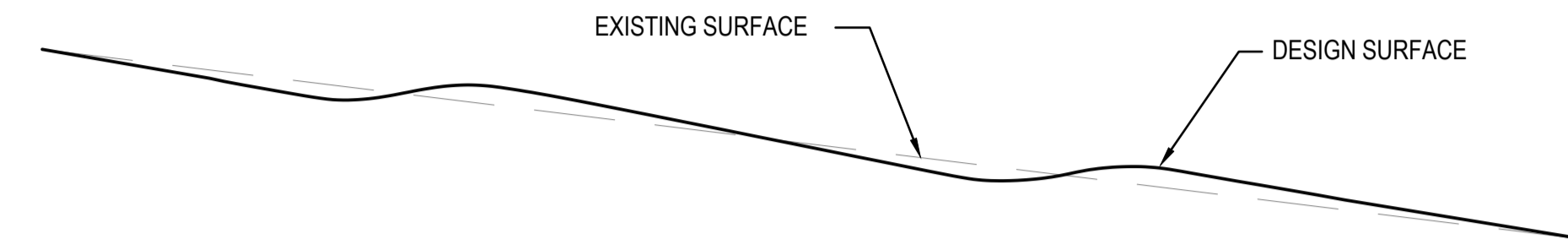
PROJECT TITLE
PROPOSED SUBDIVISION
 174 ADARE ROAD, ADARE, QLD 4343
 STAGES 4 AND 5
 DRAWING TITLE
BUSHFIRE TRIAL 6 LONGITUDINAL AND CROSS SECTIONS

DRAWING STATUS
ORIGINAL ISSUE
 FOR CONSTRUCTION
 PROJECT LEADER: CK
 DESIGNER: MP
 SIGNATURE: [Signature]
 DRAFTSPERSON: MP
 SCALE: AS SHOWN
 DATE: 29/08/24
 SHEET SIZE: A1
 JOB No.: BR242001
 DRAWING No.: C4715
 REVISION: 0

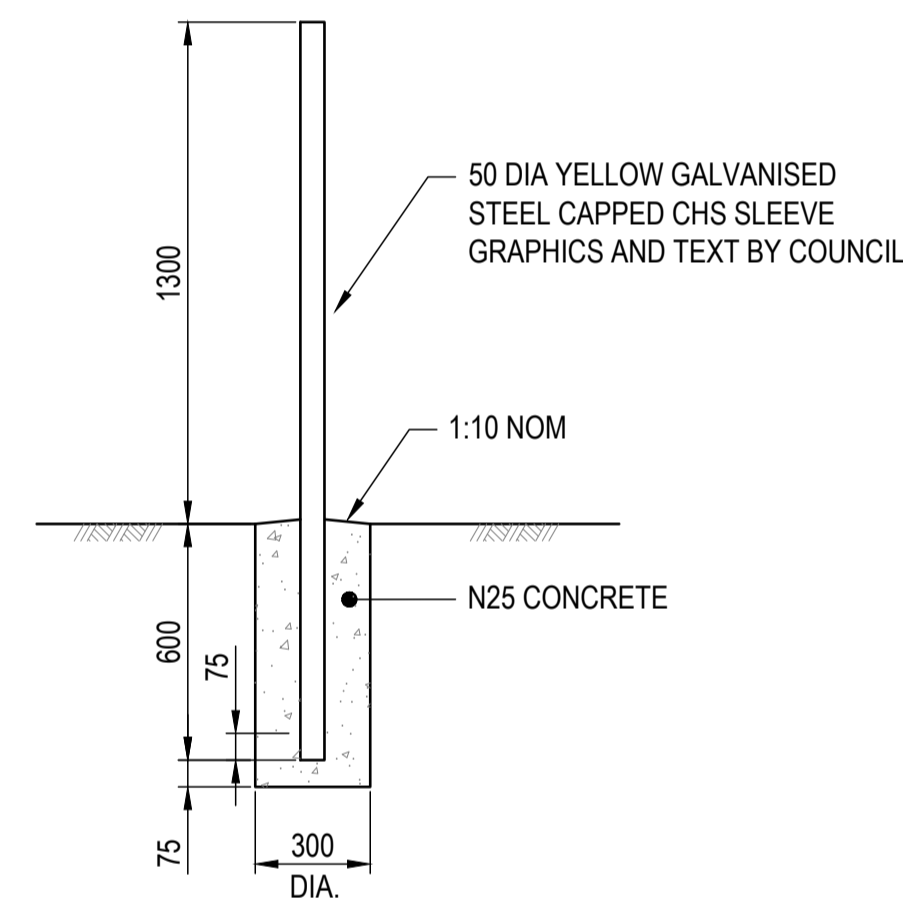


TYPICAL SECTION - BUSHFIRE TRAIL
SCALE 1:50

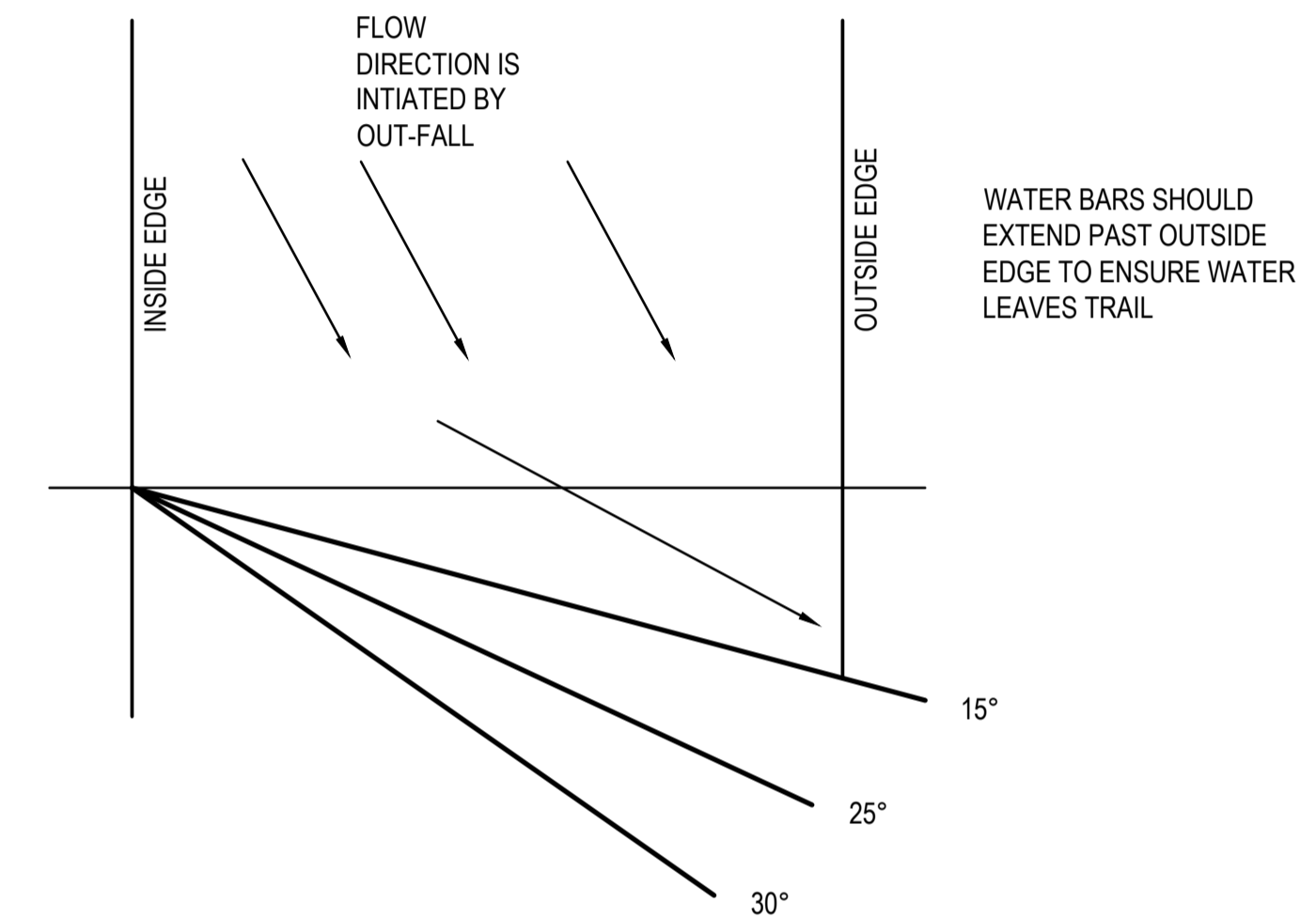
NOTE:
SUBGRADE SUITABILITY TO BE CONFIRMED
BY SUPERINTENDENT PRIOR TO GRAVEL PLACEMENT



FORMATION OF WATERBAR
NOT TO SCALE



PERMANENT FIRE TRAIL POST DETAIL
SCALE 1:20

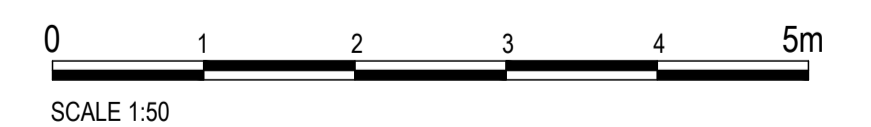
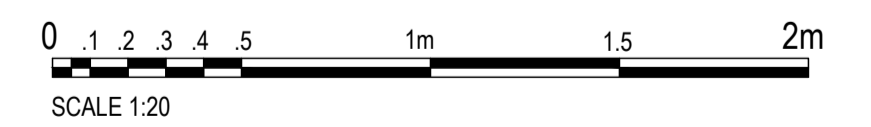


WATER BAR ORIENTATION ON THE TRAIL
NOT TO SCALE

FIRE TRAIL NOTES

1. FIRE TRAIL TO BE IN ACCORDANCE WITH THE APPROVED REPORT "BUSHFIRE RISK ASSESSMENT & MANAGEMENT PLAN" PREPARED BY BUSHLAND PROTECTION SYSTEMS DATED 20TH APRIL 2022.
2. PROVIDE A FIRE TRAIL NUMBER SIGN AT EVERY ENTRANCE TO A FIRE TRAIL.
3. COUNCIL WILL ALLOCATE TRAIL NUMBERS AND INSTALL NUMBERING ON POST.

ROAD GRADE	WATER BAR ORIENTATION	SOIL CLASS A WATER BAR SPACING	SOIL CLASS B WATER BAR SPACING	SOIL CLASS C WATER BAR SPACING	WATER BAR HEIGHT
UP TO 10%	35°	15 - 20m	10 - 12m (apart)	7 - 10m (apart)	0.3 - 0.4m
11% TO 15%	25°	8 - 10m	7 - 10m	UNDESIRABLE	0.4 - 0.6m
15% TO 20%	15°	5 - 8m	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
21% TO 25%	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
26% TO 30%	CONCRETE	CONCRETE	CONCRETE	CONCRETE	CONCRETE & OUT-FALL
ABOVE 30%	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT	RELOCATE TRAIL ALIGNMENT



REVISIONS:	
No.	REVISION DESCRIPTION
0	ISSUED FOR CONSTRUCTION

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ADARE

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PROJECT TITLE
PROPOSED SUBDIVISION
174 ADARE ROAD, ADARE, QLD 4343
STAGES 4 AND 5

DRAWING STATUS
ORIGINAL ISSUE
FOR CONSTRUCTION

PROJECT LEADER CK	DESIGNER MP	SIGNATURE	
DRAFTSPERSON MP	SCALE AS SHOWN	DATE 29/08/24	SHEET SIZE A1
JOB No. BR242001	DRAWING No. C4716	REVISION 0	