

STORMWATER MANAGEMENT IMPROVEMENT WORKS

SAN REMO ROAD CATCHMENT, RINGWOOD NORTH, VIC 3134



WARNING
BEWARE UNDERGROUND SERVICES
THE LOCATIONS OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

GENERAL

- DO NOT SCALE FROM THESE DRAWINGS, USE WRITTEN DIMENSIONS ONLY.
- THESE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH:
 - SITE DERIVED INFORMATION.
 - ANY ADDITIONAL INSTRUCTIONS/INFORMATION SUPPLIED DURING THE COURSE OF CONSTRUCTION.
 - RELEVANT GEOTECHNICAL REPORT.
- ALL LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.). T.B.M.'S ARE SHOWN ON THE PLANS, ALL LEVELS SHALL BE RELATED TO THESE.
- THE CONTRACTOR IS TO ENSURE THAT ALL FOOTPATHS, KERBS, ROAD PAVEMENT, NATURE STRIPS, STREET FURNITURE AND SERVICES DURING CONSTRUCTION ACTIVITIES ARE MADE GOOD TO THE SATISFACTION OF THE COUNCIL REPRESENTATIVE.
- THE CONTRACTOR IS TO COMPLY WITH THE EPA AND COUNCIL REQUIREMENTS FOR NOISE AND AIRBORNE POLLUTION.
- PRIOR TO THE COMMENCEMENT OF WORKS THE CONTRACTOR IS TO ENSURE THAT ALL REQUIRED PERMITS ARE ISSUED BY THE RELEVANT AUTHORITIES.
- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT AUSTRALIAN STANDARDS, AND IN COMPLIANCE WITH THE BUILDING CODE OF AUSTRALIA, COUNCIL STANDARDS AND LOCAL LAWS.
- THE CONTRACTOR IS TO ENSURE THAT A LICENSED SURVEYOR IS ENGAGED TO POSITION WORKS AND PROVIDE AS CONSTRUCTED PLANS.
- NO CONTAMINATED FILL IS TO BE IMPORTED ONTO THIS SITE.
- THE CONTRACTOR IS TO ENSURE THAT POLLUTION CONTROL MEASURES ARE IN PLACE DURING CONSTRUCTION AND THAT THEY COMPLY WITH EPA BEST PRACTICE GUIDELINES.
- STRUCTURAL PRECAST MUST BE PLACED IN ACCORDANCE WITH NOTES AND AS3798:2007.
- THE CONTRACTOR IS TO NOTIFY THE COORDINATOR OF ENGINEERING AT COUNCIL OF HAULAGE ROUTES AND SEEK APPROVALS AS REQUIRED.
- THE CONTRACTOR IS TO ENSURE THAT ALL MAINTENANCE DEPOSITS AND BONDS ARE PAID TO THE RELEVANT AUTHORITIES AS REQUIRED.
- ALL CONSTRUCTION WORK IS TO BE LIMITED TO AUTHORITY APPROVED WORKING HOURS.
- ANY ROAD/PART ROAD CLOSURES ARE TO BE APPROVED BY COUNCIL PRIOR TO WORKS COMMENCING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPLY COUNCIL WITH ANY DOCUMENTATION, SUCH AS TRAFFIC MANAGEMENT PLANS, AS REQUIRED.
- ALL TESTING TO BE AS DIRECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER AND COSTS TO BE INCLUDED IN TENDER, INCLUDING THE SERVICES OF AN APPROVED GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER WILL BE REQUIRED TO ISSUE A COMPLIANCE CERTIFICATE CONFIRMING THAT THE WORKS HAVE BEEN COMPLETED TO THE STANDARD SPECIFIED. ALLOW FOR THE FOLLOWING COMPACTION TESTS IN TENDER (AS A MINIMUM):
 - SUBGRADE (CUT OR FILL) - 1 TEST PER 600 SQ M PER LAYER.
 - CRUSHED ROCK COURSES - 1 TEST PER 400 SQ M PER LAYER.
 - ASPHALT - AS PER VIC ROAD STANDARD REQUIREMENTS.
 - TRENCH BEDDING AND BACKFILL - 1 TEST PER 30 M PER LAYER.
- PROVIDE CLAY 'PLUG' TO ALL SERVICE TRENCHES WHERE ANY PIPE, DUCT OR CABLE ENTERS THE BUILDING TO PREVENT INGRESS OF WATER UNDER BUILDING.

STORMWATER DRAINAGE

- ALL DRAINAGE PIPES ARE TO BE R.C. CLASS 'Z', F.R.C. OR U.P.V.C. S/NB UNLESS NOTED OTHERWISE ON PLAN. ALL R.C. AND F.R.C. PIPES ARE TO BE RUBBER RING JOINTED (R.R.J.).
- ALL PITS ARE TO BE CONSTRUCTED TO MAROONDAH CITY COUNCIL STANDARDS AND ALL COVERS ARE TO BE IN ACCORDANCE WITH AS3996-2006. PITS IN EXCESS OF 1.0m DEEP ARE TO BE FITTED WITH STEEL IRONS. CONCRETE FOR ALL PITS TO BE AT LEAST GRADE F.C. + 20MPa U.N.O.
- ALL LEVELS AND DIMENSIONS ARE TO BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF WORKS AND ANY DISCREPANCIES ARE TO BE REFERRED TO THE ENGINEER FOR A DECISION.
- THE CONTRACTOR IS TO VERIFY THE LOCATION AND LEVEL OF SERVICES PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THESE SERVICES. ALL CLEARANCES BETWEEN SERVICES ARE TO BE MET IN ACCORDANCE WITH AS3500 3:2018 SECTION 7.2.7.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL SERVICES PRIOR TO COMMENCEMENT OF WORKS. THE CONTRACTOR IS TO CONTACT ALL RELEVANT AUTHORITIES 48 HOURS PRIOR TO ANY EXCAVATION WORKS IN THE VICINITY OF THE IDENTIFIED SERVICES.
- ANY EXCAVATED TRENCHES IN EXCESS OF 1.5M IN DEPTH ARE TO BE ADEQUATELY SHORED TO PREVENT COLLAPSE DURING WORKS.
- ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL APPROVED PLANS AND STANDARD DRAWINGS.
- THE CONTRACTOR IS TO OBTAIN ALL NECESSARY INSPECTIONS AND APPROVALS FROM THE COUNCIL ENGINEER AND ALL OTHER RELEVANT AUTHORITIES.
- U.N.O. TRENCH BACKFILL SHOULD BE COMPACTED TO NOT LESS THAN 95% OF THE DRY DENSITY RATIO FOR STANDARD COMPACTION (COHESIVE SOILS) OR 70% OF THE MINIMUM DENSITY INDEX FOR STANDARD COMPACTION (NON-COHESIVE SOILS), IN ACCORDANCE WITH AS3798:2007. REFER TO SECTION DETAILS FOR DRAINAGE TRENCHES BACKFILL DETAILS.
- WHEN USING PRECAST OR PREFABRICATED UNITS, THE CONTRACTOR IS TO SEEK THE ENGINEER'S APPROVAL BEFORE INSTALLATION.
- WHEN REMOVING ANY REDUNDANT PIPES AND PITS, THE CONTRACTOR MUST BACKFILL IN ACCORDANCE WITH TRENCH BACKFILL NOTES ABOVE.
- CONTRACTOR IS TO PROVIDE A SAMPLE OF GRATES TO BE PLACED ON OR ADJACENT TO PATHS FOR APPROVAL BY THE COUNCIL PRIOR TO INSTALLATION.
- COUNCIL IS TO BE GIVEN 24 HOUR NOTICE PRIOR TO INSPECTIONS OF THE FOLLOWING ITEMS:
 - BREAK IN AND PIPE TO PIT CONNECTION, PRIOR TO BACKFILL.
 - COMPLETION OF WORKS.
- ALL PUMPING AND DRAINAGE WORK IS TO BE COMPLETED IN ACCORDANCE WITH AS3500:2018 AND ANY OTHER RELEVANT CODES OF PRACTICE FOR SERVICES AND ASSOCIATED WORKS.
- ALL STEEL MEMBERS INCLUDING GRATES AND LINTELS ARE TO BE HOT DIPPED GALVANISED.
- ALL MINIMUM PIPE GRADES ARE TO BE IN ACCORDANCE WITH AS3500.
- GRADED DRAINAGE PITS ARE TO BE LOCATED IN SAG POINTS (LOW POINTS). THE CONTRACTOR IS TO ENSURE EVEN FALLS ARE PROVIDED TO PITS AND LOCAL GRADES FORMED IF REQUIRED TO ELIMINATE DEAD DRAINAGE SPOTS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND LEVEL OF ALL EXISTING DISCHARGE POINTS PRIOR TO CONSTRUCTION.

AG DRAINS

- AG DRAINS (SUBSOIL DRAINS) ARE TO BE INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-103 AND AS3500.
- MIN GRADE OF AG-DRAINS IS TO BE 1:200.
- AG-DRAINS ARE TO BE FITTED WITH 50 DIA INSPECTION OPENINGS (I.O.) AT THEIR TOPMOST ENDS, AT CHANGES OF FLOW DIRECTIONS AND AT A MAXIMUM HORIZONTAL DISTANCE OF 45m.
- INSPECTION OPENINGS ARE TO EXTEND VERTICALLY TO THE TOP OF A PAVED AREA OR WITHIN 300mm FROM THE SURFACE IN UNPAVED AREAS AND TERMINATED WITH A SCREW CAP LEGIBLY MARKED 'S.W.'. ADEQUATE CAST IRON PROTECTION COVERS ARE TO BE USED WHEN POSITIONED WITHIN TRAFFIC LANES OR PAVEMENT WITH VEHICLE ACCESS.
- THE CONTRACTOR IS TO ALLOW FOR ALL AG-DRAINS AS REQUIRED AT THE REAR OF RETAINING WALLS AND EDGE OF FLEXIBLE PAVEMENTS.
- ALL AG-DRAINS ARE TO BE WRAPPED IN GEOTEXTILE MATERIAL OR THE ENTIRE BEDDING MATERIAL IS TO BE WRAPPED WITH GEOTEXTILE FABRIC OVERLAPPING NOT LESS THAN 300mm.
- UNLESS NOTED OTHERWISE, THE EMBEDMENT MATERIAL IS TO BE 10mm NOM DIA. CLEAN SCREENINGS FOR THE FULL DEPTH OF THE EMBEDMENT TRENCH EXCEPT FOR TOPSOIL REQUIREMENTS AS PER LANDSCAPING SPECIFICATIONS.

CONCRETE

- UNLESS NOTED OTHERWISE CONCRETE CRUSHING STRENGTH AT 28 DAYS SHALL BE AT LEAST:
 - DRAINAGE WORKS: 20MPa
 - PAVING WORKS: 32MPa

BITUMEN PAVEMENT

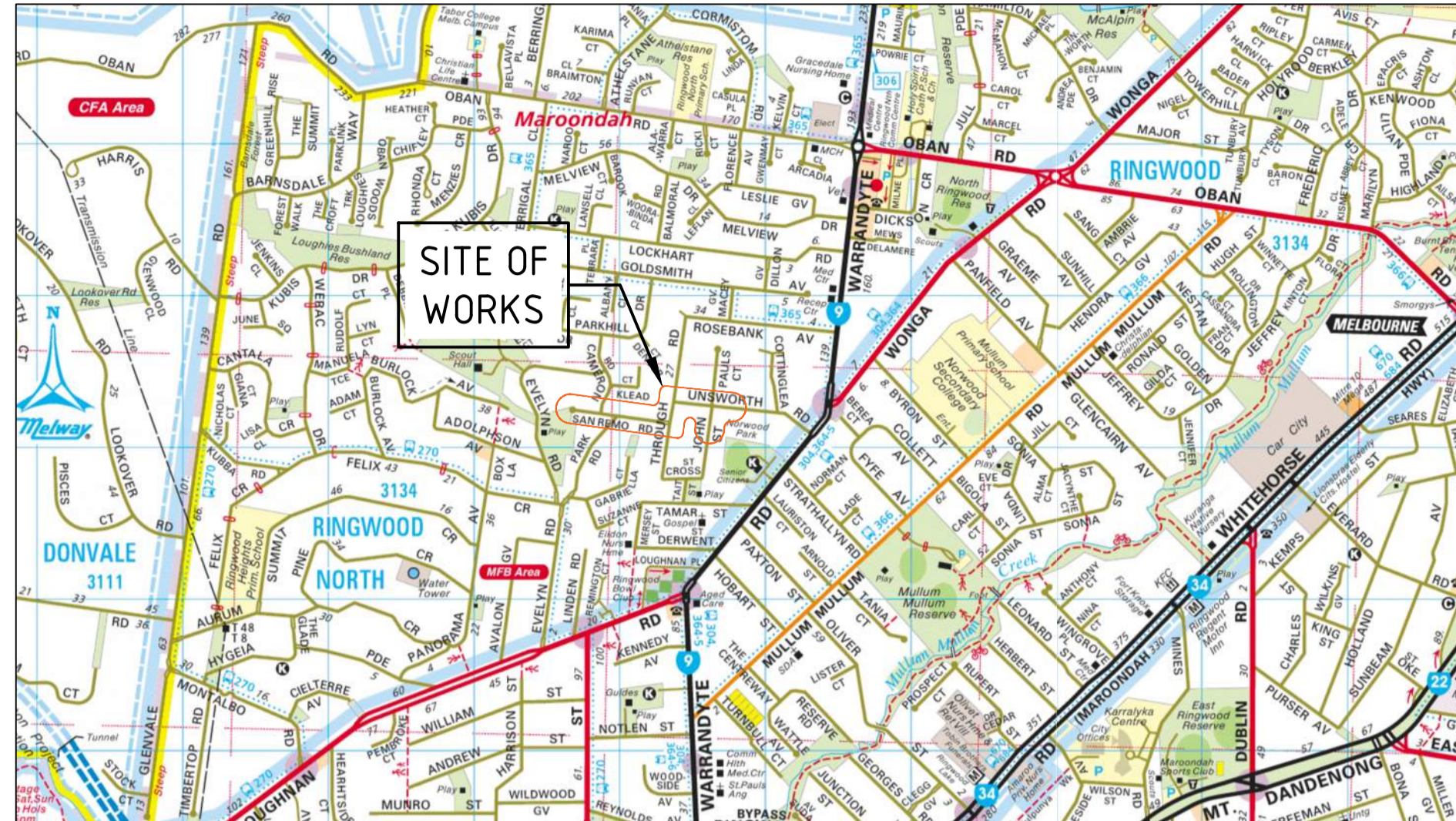
- REFER TO PLAN HATCHING AND LEGEND FOR NOMINATION OF PAVEMENT TYPES.
- LOT TESTING SHALL BE CARRIED OUT WITH A MINIMUM OF SIX SITES WITH CHARACTERISTIC RELATIVE COMPACTION ACHIEVING THE STANDARDS OUTLINED ON PLAN AND DETAILS.
- WHERE THE LOT TO BE TESTED IS LESS THAN 500m² THEN THREE TESTS MAY BE USED BUT THE MEAN OF THE RESULTS MUST BE 2% HIGHER THAN THE REQUIRED STANDARDS.
- EACH PAVEMENT LAYER SHALL BE INSPECTED AND APPROVED BY THE RELEVANT AUTHORITY PRIOR TO COMMENCING THE NEXT. COPIES OF ALL TEST RESULTS ARE TO BE PROVIDED TO THE SUPERVISING AUTHORITY FOR DOCUMENTATION PURPOSES.

AUXILIARY WORKS

- THE CONTRACTOR IS TO SEEK COUNCIL REQUIREMENTS FOR 'NOTICES OF WORKS' WITHIN A PUBLIC ROAD RESERVE.
- NO ROADWORKS ARE TO COMMENCE UNTIL ALL TEMPORARY SIGNS AND ASSOCIATED ITEMS ARE IN PLACE AS APPROVED.
- ALL DISTURBED AREAS ARE TO BE REINSTATED AND SHAPED AS DIRECTED. ALL GRASSED AREAS SHALL BE TOP DRESSED WITH A MINIMUM DEPTH OF 100mm OF APPROVED TOPSOIL, RAKED AND SEEDED.
- ALL ROADSIDE AREAS SHALL BE MAINTAINED FOR A MINIMUM OF THREE MONTHS OR UNTIL THEY ARE RE-ESTABLISHED TO COUNCIL SATISFACTION.
- MAINTENANCE WORKS SHALL INCLUDE BUT NOT BE LIMITED TO:
 - TOPPING UP WITH SOIL WHERE SUBSIDED.
 - RE-SEEDING AS REQUIRED.
 - MOVING AND GENERAL LANDSCAPE MAINTENANCE.
- ALL LINEMARKINGS TO BE IN ACCORDANCE WITH COUNCIL GUIDELINES.
- REINSTATE ANY PATHS, KERBS, PAVEMENTS, BATTERS AND RETAINING WALLS DAMAGED DURING THE COURSE OF THE WORKS TO THE SATISFACTION OF THE CLIENT REPRESENTATIVE.

HEALTH AND SAFETY

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE ALL WORKS ARE CARRIED OUT IN A SAFE MANNER. THE WORKS SHALL COMPLY WITH APPLICABLE HEALTH AND SAFETY LEGISLATION INCLUDING CODES OF PRACTICE, AUSTRALIAN STANDARDS, GUIDANCE NOTES AND WORKSAFE REQUIREMENTS.
- THE CONTRACTOR SHALL ENSURE A RISK ASSESSMENT HAS BEEN CARRIED OUT AND DOCUMENTED FOR ALL ACTIVITIES PERFORMED ON THE SITE. SAFE WORK PROCEDURES MUST BE DOCUMENTED AS REQUIRED BY LEGISLATION AND RELEVANT AUTHORITIES. THE BUILDER MAY NEED TO ENGAGE SUITABLY EXPERIENCED CONSULTANTS TO PREPARE A SAFE WORK PROCEDURE IF THE BUILDER IS INEXPERIENCED IN THIS FIELD OR IF THEY ARE NOT SATISFIED WITH THE METHOD PROPOSED BY THE CONTRACTOR.
- THE WORKS SHALL BE CARRIED OUT IN A MANNER THAT ENSURES THE SAFETY OF THE PUBLIC AT ALL TIMES. SITE SAFETY REQUIREMENTS AND ARRANGEMENTS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED BY COUNCIL.



LOCALITY PLAN

THE CONTRACTOR IS TO ENGAGE THE GEOTECHNICAL ENGINEER TO APPROVE ALL FILL MATERIALS PRIOR TO PLACEMENT, SUBGRADE PRIOR TO PLACEMENT OF FILL, COMPACTION OF FILL.

SUBGRADE PREPARATION AND EARTHWORKS - PAVEMENTS

- REFER SOIL REPORT BY: FMG ENGINEERING
- UNDER ALL PAVEMENT AREAS, STRIP ALL TOPSOIL AND PREPARE FOR PAVEMENT AS PER DETAIL.
- CUT AND FILL AS REQUIRED TO PRODUCE FINISHED SURFACE LEVEL AS SPECIFIED LESS PAVEMENT THICKNESS AS SHOWN ON DRAWINGS.
- COMPACT CUT SURFACE TO 98% STANDARD MAXIMUM DRY DENSITY (SMDD).
- THE MOISTURE CONTENT OF THE SUBGRADE OR FILL SHOULD BE WITHIN 85%-115% OF THE STANDARD OPTIMUM MOISTURE CONTENT AT THE TIME OF COMPACTION.
- PRIOR TO PLACEMENT OF FILL OR PAVEMENT REMOVE AND REPLACE SOFT OR UNSTABLE SUBGRADE WITH CLEAN WELL GRADED APPROVED MATERIAL TO 98% SMDD. PROOF ROLL SUBGRADE SURFACE WITH A DUAL WHEELED PNEUMATIC TYRED VEHICLE (MIN. 9.4 TONNE LOADED AXEL) AND MAKE GOOD TO ANY SOFT SPOTS.
- EXCAVATED AND PREPARED SURFACES UNDER ALL PAVEMENTS SHALL BE SPRAYED WITH AN APPROVED WEED KILLER. CARE MUST BE TAKEN TO AVOID CONTAMINATING THE GARDEN BEDS AND LAWN AREAS.
- FILLING SHALL BE CLEAN WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% MMD IN MAX 200mm LOOSE THICKNESS LAYERS, OR APPROVED IMPORTED CLAY FILL COMPACTED TO 98% SMDD IN 150mm LAYERS.
- CUT OR BACKFILL AREA BEHIND KERBING TO TOP OF KERB AND GRADE TO 1 IN 4 MAX SLOPE TO MATCH EXISTING SURFACE LEVELS.
- CONTRACTOR IS TO SUPPLY A RATE TO DEAL WITH SOFT SPOTS, THE RATE IS TO INCLUDE EXCAVATION AND REMOVAL OF SPOIL OFF SITE. RATE IS TO BE CALCULATED PER CUBIC METRE OF BACKFILL.
- 98%SMDD IS APPROXIMATELY EQUIVALENT TO 95%MMDD OR 75% MINIMUM DENSITY INDEX AS NOTED IN TABLE 5.1 OF AS3798-2007.

SEDIMENT AND EROSION CONTROL

GENERAL NOTES

- SOIL CONTROL MEASURES MUST BE ADOPTED AT ALL TIMES TO THE SATISFACTION OF COUNCIL'S DESIGN ENGINEER AND THE FACILITIES MANAGER DURING THE DURATION OF THE CONTRACT. SITE CONTROLS AND EROSION MINIMISATION TECHNIQUES ARE TO BE IN ACCORDANCE WITH THE INSTITUTE OF ENGINEERS AUSTRALIA PUBLICATION 'SOIL EROSION AND SEDIMENT CONTROL', EPA GUIDELINES AND OTHER CONTRACT DOCUMENTATION INCLUDING THIS PLAN.
- SITE ESTABLISHMENT AND STRIPPING TOPSOIL:
 - STOCKPILE SOIL IN ALLOCATED LOCATION AND PROVIDE SILT CONTROL BARRIERS IF STOCKPILE IS LEFT OVERNIGHT.
 - WASH DOWN ANY VEHICLES LEAVING SITE AFTER TREADING ON SOIL.
 - PLACE CRUSHED ROCK TO A DEPTH OF 150mm MINIMUM TO ALL VEHICLE ACCESS AREAS OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX WISS OR EQUIVALENT).
 - GRADE ALL SOIL AREAS AWAY FROM MAIN CONSTRUCTION AREA AND TOWARDS DRAINAGE POINTS.
 - PLACE FILTER MATERIAL SUCH AS HAY BALES OR SILT FENCES ALONG DRAINAGE POINTS.
 - INSTALL ON-SITE WASTE RECEPTORS (e.g. MINI-SKIPS, BINS, WIND PROOF LITTER RECEPTORS).
- CONSTRUCTION OF DRAINAGE SYSTEMS:
 - CARRY OUT WORKS IN DRY WEATHER.
 - DO NOT LEAVE TRENCHES OPEN FOR A LONG PERIOD OF TIME.
 - BUILD DRAINAGE SYSTEM COMMENCING FROM DOWN STREAM.
 - PLACE FILTER MATERIAL IN EXISTING PIT DOWN STREAM, UNTIL ALL DRAINAGE IS IN PLACE AND THEN INSTALL SILT CONTROL DEVICES AT EACH NEW PIT.
- CONSTRUCTION OF MAIN WORKS:
 - ENSURE THAT SOIL IS KEPT MOIST TO MINIMISE AIR POLLUTION.
 - DO NOT LEAVE SOIL EXPOSED FOR LONG PERIODS OF TIME.
 - ENSURE FALLS OF CUT OR FILL ARE AWAY FROM MAIN WORKING AREA.
 - INSTALL ROOF DOWNPIPES AS SOON AS PRACTICABLE - IF NECESSARY USE TEMPORARY CONNECTIONS TO ENSURE STORMWATER DOES NOT DISCHARGE OVER LOOSE SOIL.
- LANDSCAPING:
 - PLACE VEGETATION SUITABLE TO MINIMISE LOOSE SOIL CONDITIONS. REFER TO THE APPROVED LANDSCAPING PLAN FOR ADDITIONAL INFORMATION.

TREATMENT DEVICES

- SEDIMENT FENCES, SEDIMENT FENCES ARE TO BE PLACED AS REQUIRED. THEY CONSIST OF GEOTEXTILE FILTER FABRIC STAPLED ONTO 40mm SQUARE HARDWOOD STAKES OR WIRE TIED TO STEEL POSTS. THE FILTER FABRIC MUST BE BURIED 100mm MIN INTO THE GROUND AND STAND UP TO A HEIGHT OF 700mm. POSTS ARE TO BE SPACED AT 2.0m CENTRES AND DRIVEN 600mm INTO THE GROUND. WHEN STOCKPILING GRANULAR MATERIALS INCLUDING TOP SOILS, A SEDIMENT FENCE SHOULD BE ERECTED AT THE PERIMETER OF THE STOCKPILE IF LEFT OVERNIGHT.
- PROTECTION OF DRAINAGE POINTS; ALL DRAINAGE POINTS, WHETHER TEMPORARY OR PERMANENT, SHALL BE PROTECTED FROM POLLUTED WATERS. THE PRINCIPAL CONTRACTOR MAY USE STRAW BALES HELD IN PLACE BY AT LEAST TWO DRIVEN PICKETS OR SEDIMENT FENCES TO FULLY SURROUND THE DRAINAGE POINT.
- GENERAL BUILDING OPERATIONS; BUILDING OPERATIONS SUCH AS WASHING OF TOOLS AND PAINTING EQUIPMENT, CUTTING MASONRY OR THE USE OF ANY OTHER WATER COOLED CUTTING EQUIPMENT SHOULD BE CARRIED OUT IN A CONTROLLED AREA, WHERE POSSIBLE ON A NATURAL FILTERED AREA SUCH AS A GRASSED TRENCH, OR IN THE VICINITY OF A SEDIMENT SETTLING TANK.
- ALL VEHICLE ENTRY/EXIT POINTS ARE TO BE TREATED WITH CRUSHED ROCK OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX WISS OR EQUIVALENT), WELL COMPACTED AND ADJACENT TO THE EXIT DRIVE. THE PRINCIPAL CONTRACTOR IS TO PROVIDE SUITABLE WASHING FACILITIES FOR CLEANING OF ALL VEHICLES PRIOR TO THEM EXITING THE SITE SO AS TO PREVENT ANY GREASE, OIL, MUD, CLAY OR OTHER SUBSTANCES FALLING OR RUNNING OFF A VEHICLE ON THE ROAD PAVEMENT OR INTO ANY DRAIN. THE CONDITION OF THE SITE ACCESS/EGRESS IS TO BE CONTINUOUSLY MONITORED AND CLEANED DOWN AS NECESSARY DURING THE COURSE OF THE CONTRACT TO MAINTAIN CLEAN FOOTPATHS AND ROADWAYS.

ADDITIONAL NOTES FOR SEDIMENT AND EROSION CONTROL

- THE CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES TO SUCH TIME THAT THE PROJECT IS COMPLETED AND OFFICIALLY HANDOVER TO THE CLIENT. THIS MAY INCLUDE THE PROVISION OF TEMPORARY DRAINAGE AND WATER QUALITY MANAGEMENT DEVICES.
- DO NOT STRIP OR EXCAVATE SITE UNTIL BUILDING WORKS ARE READY TO PROCEED.
- OBTAIN ALL NECESSARY PERMITS, LICENSES AND APPROVALS, REFER TO COUNCIL APPROVED DRAWINGS AND DOCUMENTATION.
- ESTABLISH ALL REQUIRED ENTRY/EXIT POINTS AND TREAT THESE AREAS AS DESCRIBED ABOVE.
- STACK SOILS IN PRE-DEFINED EROSION CONTROL AREAS, WHEN LEFT OVER NIGHT.
- ACCIDENTAL SPILLS OF SOIL OR OTHER MATERIALS ONTO THE ROAD OR INTO THE GUTTER OR DRAINS SHOULD BE REMOVED PRIOR TO STORMS AND AT LEAST UPON COMPLETION OF THE DAY'S WORK. MATERIALS SHOULD BE SWEEPED OFF THE ROAD AND NOT WASHED DOWN THE GUTTER.
- EROSION CONTROL DEVICES SHOULD BE INSPECTED REGULARLY AND AFTER EVERY STORM EVENT.
- CONCRETE WASTE WASHED FROM TRUCKS AND MIXERS SHOULD BE CONTAINED ON-SITE AND NOT DISPOSED OFF, DOWN A DRAIN OR IN ANY OTHER WAY WHICH MAY BE CONSIDERED HARMFUL TO THE ENVIRONMENT.

EROSION CONTROL PLAN

- AN EROSION CONTROL PLAN IS TO BE IMPLEMENTED ON SITE DURING CONSTRUCTION TO PREVENT SEDIMENT FROM LEAVING THE SITE AND ENTERING THE DRAINAGE SYSTEMS, eg 'HAY BALES' WITH GEOPFABRIC MATERIAL TO THE SATISFACTION OF THE RELEVANT AUTHORITY.

MAROONDAH CITY COUNCIL - STANDARD CONSTRUCTION NOTES - MCC-002

GENERAL NOTES

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS UNLESS SPECIFIED OTHERWISE.
- WHERE WORKS ARE IN THE VICINITY OF EXISTING SERVICES, THE CONTRACTOR SHALL VERIFY ALL LOCATIONS AND DEPTHS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR SHALL ADVISE THE SUPERINTENDENT OF ANY REQUIRED ALTERATIONS.
- ALL WORK PRACTICES SHALL COMPLY WITH THE OCCUPATIONAL HEALTH & SAFETY ACT AND ALL RELEVANT REGULATIONS AND CODES OF PRACTICE (IN PARTICULAR, THE CODE OF PRACTICE FOR SAFETY PRECAUTIONS IN TRENCHING OPERATIONS).
- WORKSAFE VICTORIA IS TO BE INFORMED FOR TRENCHING OPERATIONS WHERE THE DEPTH IS GREATER THAN 1.5m.
- THE CONTRACTOR SHALL STRICTLY COMPLY WITH 'NO GO ZONE' CLEARANCE REQUIREMENTS WHEN WORKING WITHIN THE VICINITY OF OVERHEAD ELECTRICAL ASSETS/CABLES. FOR ANY OPERATION WHICH ENCLOSES ON THE 30m 'NO GO ZONE', THE CONTRACTOR SHALL OBTAIN A WRITTEN PERMIT TO WORK FROM WORKSAFE. CONTRACTORS SHALL ALSO COMPLY WITH RELEVANT WORKING CLEARANCES FOR OTHER UNDERGROUND UTILITIES AS SPECIFIED BY THE UTILITY OWNERS, INCLUDING BUT NOT LIMITED TO UNDERGROUND GAS & ELECTRICAL SERVICES. FURTHER INFORMATION ON 'NO GO ZONE' CLEARANCE REQUIREMENTS, REFER TO CURRENT WORKSAFE VICTORIA PUBLICATIONS (WWW.WORKSAFE.VIC.GOV.AU).
- ALL CONCRETE SHALL BE SAWCUT TO THE NEAREST JOINT UNLESS SPECIFIED OTHERWISE.
- ALL SERVICE COVERS WITHIN THE LIMIT OF WORKS SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED SURFACE LEVELS.
- NO TREES OR VEGETATION SHALL BE REMOVED UNLESS AUTHORIZED BY MAROONDAH CITY COUNCIL.
- ALL DISTURBED AREAS SHALL BE TOPSOILED AND SEEDED TO A MINIMUM DEPTH OF 100mm. NATURE STRIPS SHALL BE GRADED EVENLY FROM THE TOP OF KERB TO THE FRONT OF PATH OR AS DIRECTED.
- SITE EROSION CONTROL AND MINIMISATION MEASURES SHALL BE ADOPTED AT ALL TIMES IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AUTHORITY'S ENVIRONMENTAL GUIDELINES FOR MAJOR CONSTRUCTION SITES.
- TRAFFIC MANAGEMENT IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE ROAD MANAGEMENT ACT 2004 AND AST142.3. ALL SIGNAGE (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
- ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa UNLESS SPECIFIED OTHERWISE.
- ALL CRUSHED ROCK TO BE CURRENT VICROADS REGISTERED MIXES.
- CLASS 3 CRUSHED ROCK & CEMENT TREATED CRUSHED ROCK MAY CONTAIN 10% CRUSHED CONCRETE IN ACCORDANCE WITH VICROADS TECHNICAL NOTE TN 107 - USE OF RECYCLED MATERIALS IN ROAD PAVEMENTS.
- ALL LINE MARKING TO BE IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 1742.1 AND TO BE LONG LIFE THERMOPLASTIC IN ACCORDANCE WITH VICROADS SECTION 724 OR AS DIRECTED BY SUPERVISING ENGINEER.
- WHERE PRODUCTS HAVE RECOMMENDED SUPPLIERS, ALTERNATIVES MAY BE CONSIDERED, HOWEVER MUST BE ACCEPTED BY COUNCIL IN WRITING.
- (REMOVED)
- (REMOVED)
- DRAINAGE NOTES**
- NO INTERNAL DIMENSION OF JUNCTION PITS SHALL BE LESS THAN PIPE DIAMETER PLUS 150mm.
- WHERE PIT DEPTH EXCEEDS 1000mm, STEP IRONS ARE TO BE INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-202.
- GENERAL BUILDING OPERATIONS; BUILDING OPERATIONS SUCH AS WASHING OF TOOLS AND PAINTING EQUIPMENT, CUTTING MASONRY OR THE USE OF ANY OTHER WATER COOLED CUTTING EQUIPMENT SHOULD BE CARRIED OUT IN A CONTROLLED AREA, WHERE POSSIBLE ON A NATURAL FILTERED AREA SUCH AS A GRASSED TRENCH, OR IN THE VICINITY OF A SEDIMENT SETTLING TANK.
- ALL VEHICLE ENTRY/EXIT POINTS ARE TO BE TREATED WITH CRUSHED ROCK OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX WISS OR EQUIVALENT), WELL COMPACTED AND ADJACENT TO THE EXIT DRIVE. THE PRINCIPAL CONTRACTOR IS TO PROVIDE SUITABLE WASHING FACILITIES FOR CLEANING OF ALL VEHICLES PRIOR TO THEM EXITING THE SITE SO AS TO PREVENT ANY GREASE, OIL, MUD, CLAY OR OTHER SUBSTANCES FALLING OR RUNNING OFF A VEHICLE ON THE ROAD PAVEMENT OR INTO ANY DRAIN. THE CONDITION OF THE SITE ACCESS/EGRESS IS TO BE CONTINUOUSLY MONITORED AND CLEANED DOWN AS NECESSARY DURING THE COURSE OF THE CONTRACT TO MAINTAIN CLEAN FOOTPATHS AND ROADWAYS.
- ALL GRATED PIT LIDS ARE TO BE BICYCLE SAFE & INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

DRAWING REGISTER

DRAWING NO	DRAWING TITLE
C001	TITLE SHEET
C002	OVERALL PLAN
C003	EXISTING CONDITIONS AND DEMOLITION PLAN
C004	EXISTING CONDITIONS AND DEMOLITION PLAN
C005	EXISTING CONDITIONS AND DEMOLITION PLAN
C006	EXISTING CONDITIONS AND DEMOLITION PLAN
C007	GENERAL LAYOUT PLAN
C008	GENERAL LAYOUT PLAN
C009	GENERAL LAYOUT PLAN
C010	GENERAL LAYOUT PLAN
C011	SURVEY SETOUT PLAN
C012	SURVEY SETOUT PLAN
C013	SURVEY SETOUT PLAN
C014	SURVEY SETOUT PLAN
C015	TYPICAL SECTIONS A-A, B-B, AND C-C
C016	TYPICAL SECTIONS D-D, E-E, F-F AND G-G
C017	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)
C018	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)
C019	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)
C020	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'B' (FOFP B)
C021	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'B' (FOFP B)
C022	LONGITUDINAL SECTION - FRONT OF FOOTPATH 'C' (FOFP C)
C023	LONGITUDINAL SECTIONS - CENTRELINE 'D' / LIP OF KERB 'E' & 'F' (CL D, LOK E & LOK F)
C024	LONGITUDINAL SECTION - CENTRELINE 'G' (CL G)
C025	LONGITUDINAL SECTION - CENTRELINE 'H' (CL H)
C026	LONGITUDINAL SECTION - LIP OF KERB 'I' (LOK I)
C027	LONGITUDINAL SECTION - LIP OF KERB 'J' (LOK J)
C028	LONGITUDINAL SECTION - LIP OF KERB 'K' (LOK K)
C029	LONGITUDINAL SECTION - CENTRELINE 'L' / LIP OF KERB 'M' (CL L & LOK M)
C030	LONGITUDINAL SECTION - LIP OF KERB 'N' AND 'O' (LOK N & LOK O)
C031	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 2.174 A - CH 60.000 A
C032	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 70.000 A - CH 159.000 A
C033	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 173.000 A - CH 200.000 A
C034	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 203.000 A - CH 222.000 A
C035	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 230.000 A - CH 280.000 A
C036	CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 282.000 A - CH 300.000 A
C037	CROSS SECTIONS - FRONT OF FOOTPATH 'B' - CH 3.620 B - CH 62.159 B
C038	CROSS SECTIONS - FRONT OF FOOTPATH 'B' - CH 66.000 B - CH 133.000 B
C039	CROSS SECTIONS - FRONT OF FOOTPATH 'C' - CH 7.000 C - CH 47.998 C
C040	DRAINAGE LONGITUDINAL SECTIONS
C041	DRAINAGE LONGITUDINAL SECTIONS
C042	SWEEP PATH ANALYSIS PLAN - MAROONDAH WASTE VEHICLE
C100	CUSTOM TRIPLE GRATED DRAINAGE PIT DETAIL (PIT #9)

100% DETAILED DESIGN
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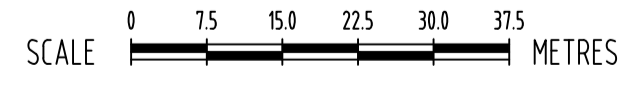
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F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC			
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC			
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC			
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC			
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC			
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC			
REV	DESCRIPTION	DATE	DATE	INT	APP		



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OVERALL PLAN



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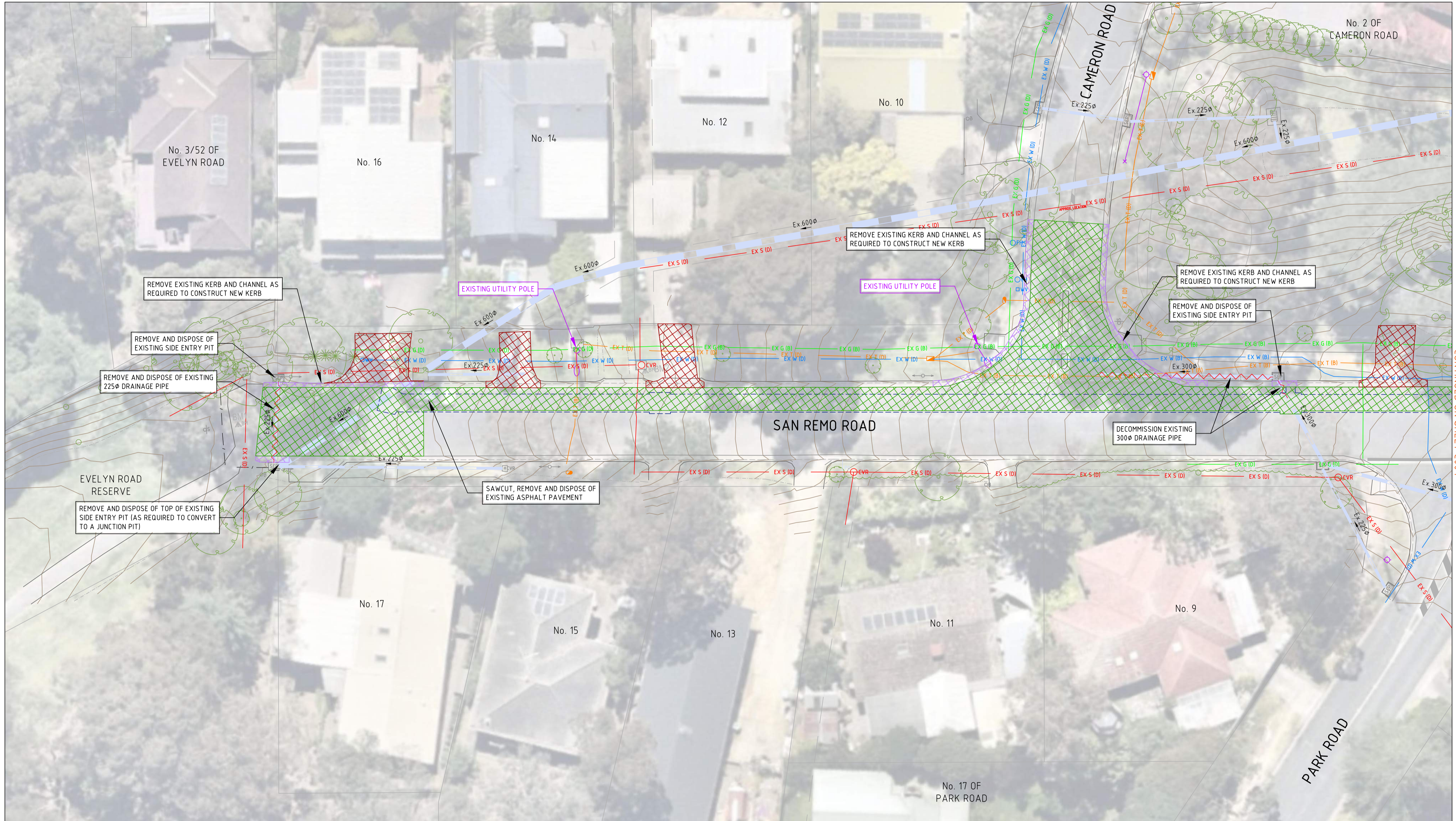
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F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW REV DESCRIPTION DATE INT APP	12-01-2025 KC KC 28-08-2025 MC KC 03-02-2025 RY KC 18-10-2024 KC KC 21-08-2024 KC KC 28-06-2024 KC KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.					

LEGEND

-  EXISTING ASPHALT ROAD PAVEMENT TO BE SAW CUT, REMOVED AND DISPOSED
-  EXISTING ASPHALT ROAD PAVEMENT TO BE PROFILED, REMOVED AND DISPOSED
-  EXISTING CONCRETE KERB TO BE SAW CUT, REMOVED AND DISPOSED
-  EXISTING CONCRETE VEHICLE CROSSING TO BE SAW CUT, REMOVED AND DISPOSED
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-  - EX T (D) - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL
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-  - %c - EXISTING CONTOUR MINOR (0.2m)
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-  - REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE



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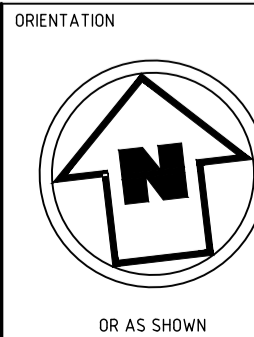
EXISTING CONDITIONS AND DEMOLITION PLAN

SCALE 0 2 4 6 8 10 METRES

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REV	DESCRIPTION	DATE	INIT	APP
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CLIENT



HEIGHT DATUM
AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023















FMG 50 YEARS
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fmgengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT

MAROONDAH CITY COUNCIL
PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
DRAWING TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN

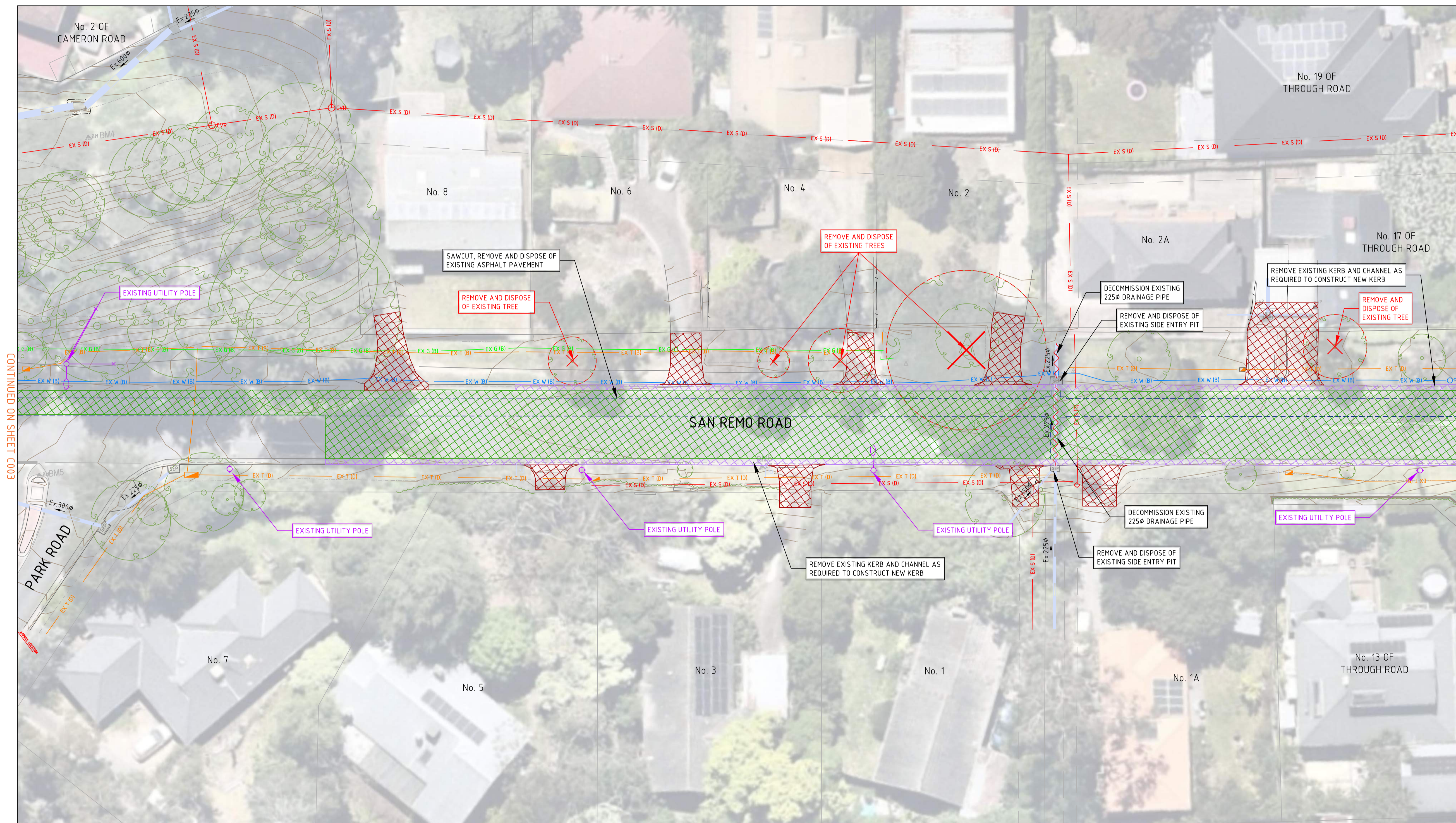
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KC / MC	EW / KC	AH	13-05-2024
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SITE ID & JOB No. S67850-290035		REV. F	
DRAWING No. C003			

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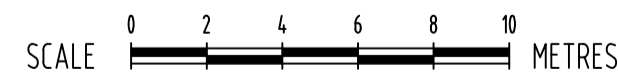
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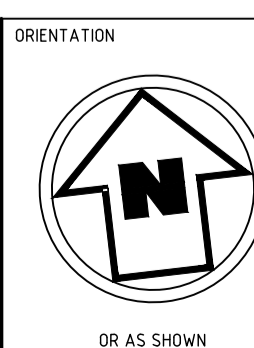
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SIGNATURE

CLIENT
MAROONDAH CITY COUNCIL
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EXISTING CONDITIONS AND DEMOLITION PLAN

DESIGNED	DRAWN
KC / MC	EW / KC
CHECKED	NO. OF SHEETS
AH	43
SCALE	DATE STARTED
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LEGEND

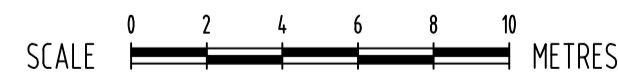
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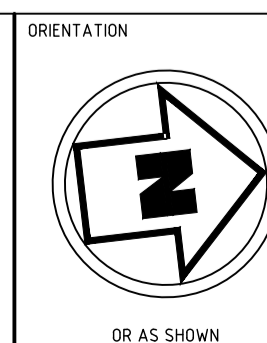
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COORDINATE DATUM
MGA 20 ZONE 55

SURVEY DATE
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AERIAL IMAGE DATE
10-11-2023

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ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT
MAROONDAH CITY COUNCIL

PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS















SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134

DRAWING TITLE
EXISTING CONDITIONS AND DEMOLITION PLAN

100% DETAILED DESIGN
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DESIGNED	DRAWN	CHECKED	DATE STARTED
KC / MC	EW / KC	AH	13-05-2024
No. OF SHEETS 43		SCALE 1:200@A1	
SITE ID & JOB No. S67850-290035		REV. F	
DRAWING No. C005			

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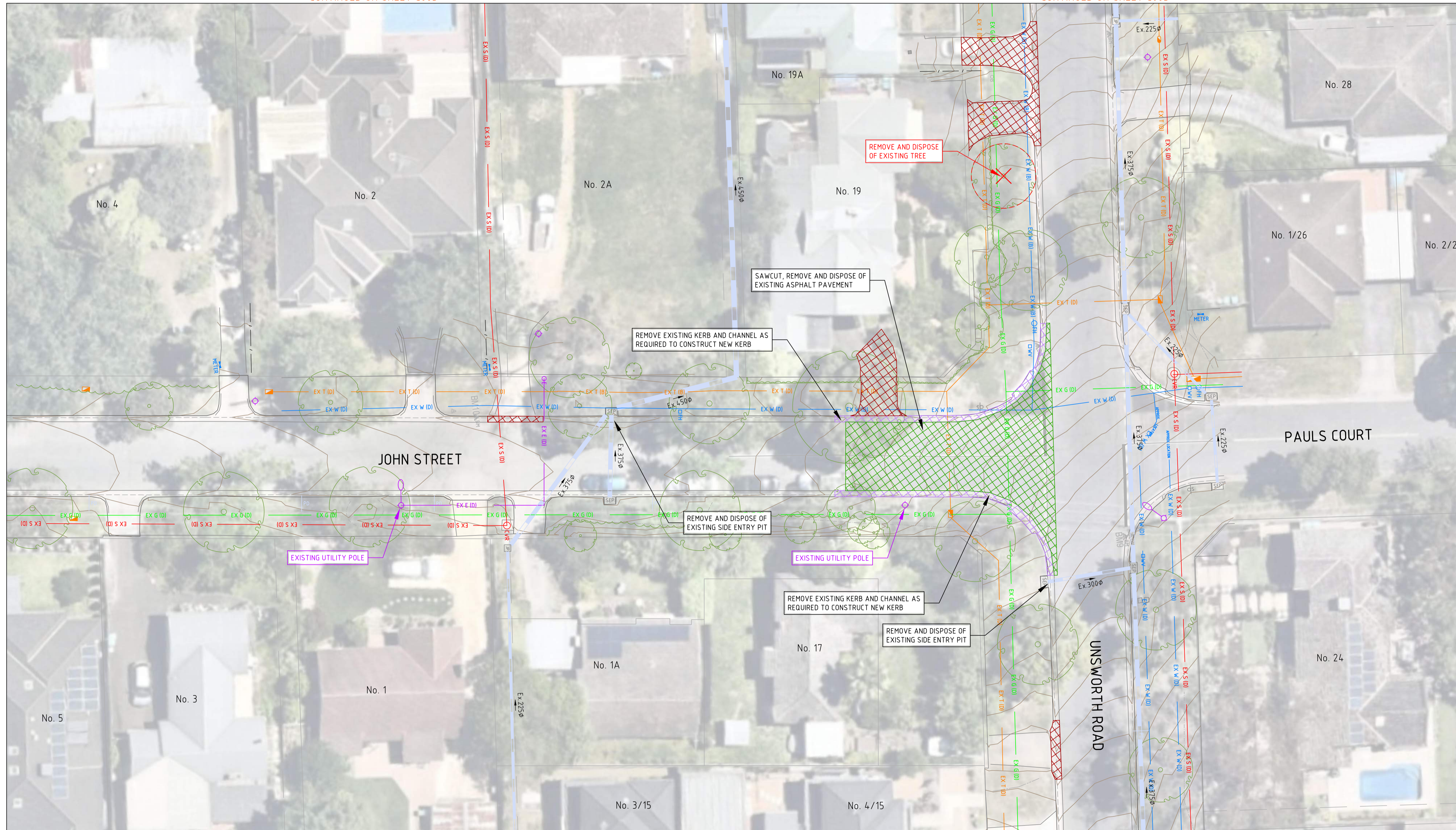
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-  - 0.2m - EXISTING CONTOUR MINOR (0.2m)
-  - EX DRAINAGE PIPE
-  - REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE



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CONTINUED ON SHEET C005

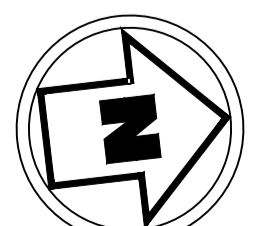
CONTINUED ON SHEET C005



EXISTING CONDITIONS AND DEMOLITION PLAN



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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV</th> <th>DESCRIPTION</th> <th>DATE</th> <th>INIT</th> <th>APP</th> </tr> </thead> <tbody> <tr> <td>F</td> <td>100% DETAILED DESIGN - ISSUED FOR REVIEW</td> <td>12-01-2025</td> <td>KC</td> <td>KC</td> </tr> <tr> <td>E</td> <td>80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</td> <td>28-08-2025</td> <td>MC</td> <td>KC</td> </tr> <tr> <td>D</td> <td>70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</td> <td>03-02-2025</td> <td>RY</td> <td>KC</td> </tr> <tr> <td>C</td> <td>70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</td> <td>18-10-2024</td> <td>KC</td> <td>KC</td> </tr> <tr> <td>B</td> <td>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</td> <td>21-08-2024</td> <td>KC</td> <td>KC</td> </tr> <tr> <td>A</td> <td>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</td> <td>28-06-2024</td> <td>KC</td> <td>KC</td> </tr> </tbody> </table>	REV	DESCRIPTION	DATE	INIT	APP	F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC	E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC	D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC	C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC	B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC	A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC	<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>				
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LEGEND

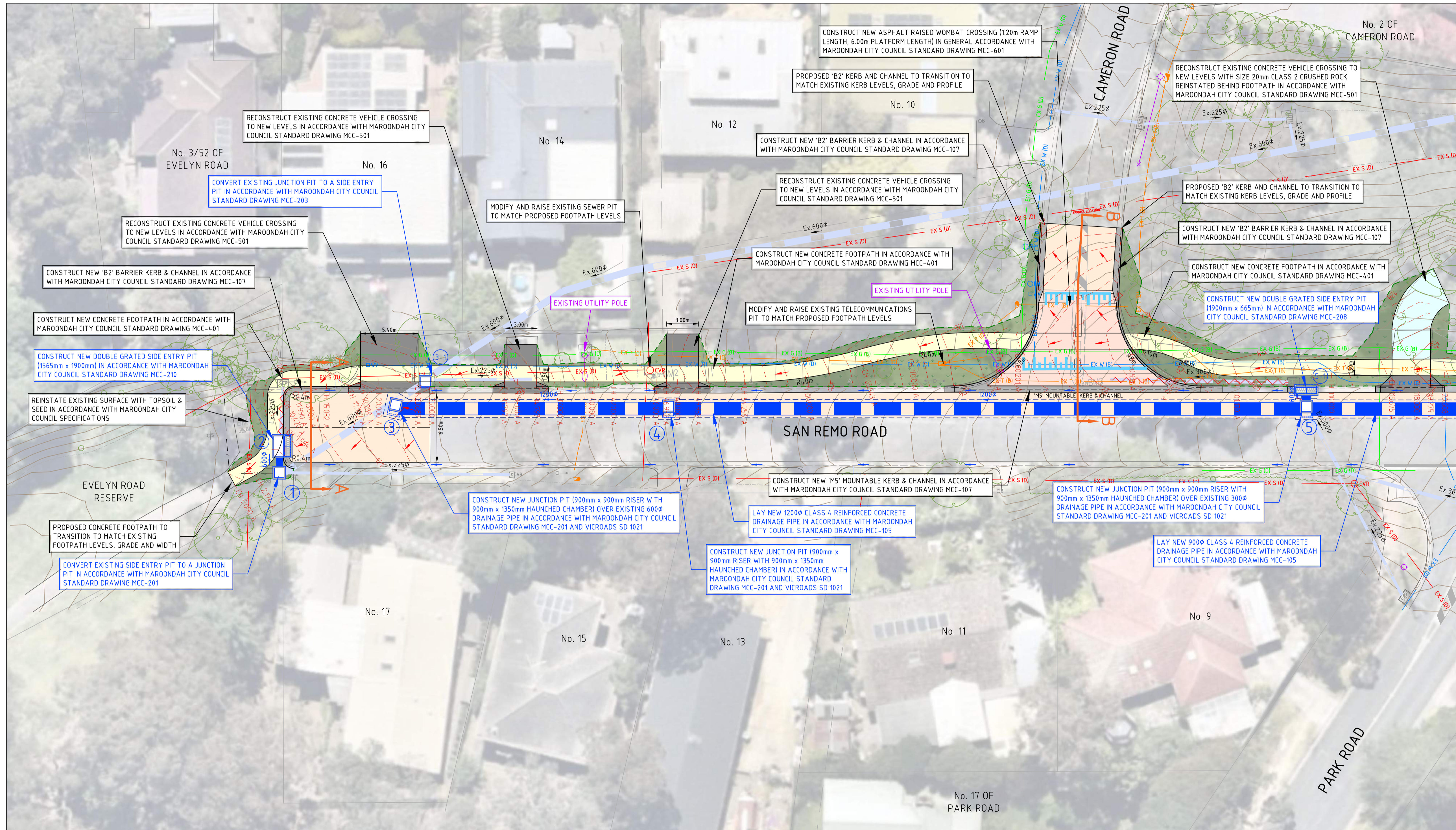
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- CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401
- 150mm THICK CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-501
- TOPSOIL & SEED (MAROONDAH CITY COUNCIL APPROVED) REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS
- CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107

- EXISTING DRAINAGE PIPE
- REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIPE
- NEW DRAINAGE PIT
- SUBSURFACE DRAINAGE - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-103
- SUBSURFACE DRAINAGE FLUSHOUT RISER & COVER - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-104
- DIRECTION OF CHANNEL FLOW
- DIRECTION OF PAVEMENT SHEET FLOW

- FILL BATTER EXTENT
- CUT BATTER EXTENT
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.20m)
- FINISHED SURFACE CONTOUR MAJOR (1.0m)
- FINISHED SURFACE CONTOUR MINOR (0.20m)
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- EX E (ID) - EXISTING ELECTRICITY WITH QUALITY LEVEL
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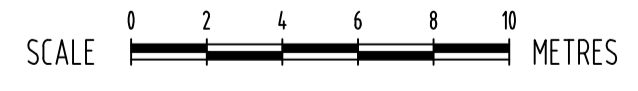


WARNING
BEWARE UNDERGROUND SERVICES
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CONTINUED ON SHEET C008

GENERAL LAYOUT PLAN



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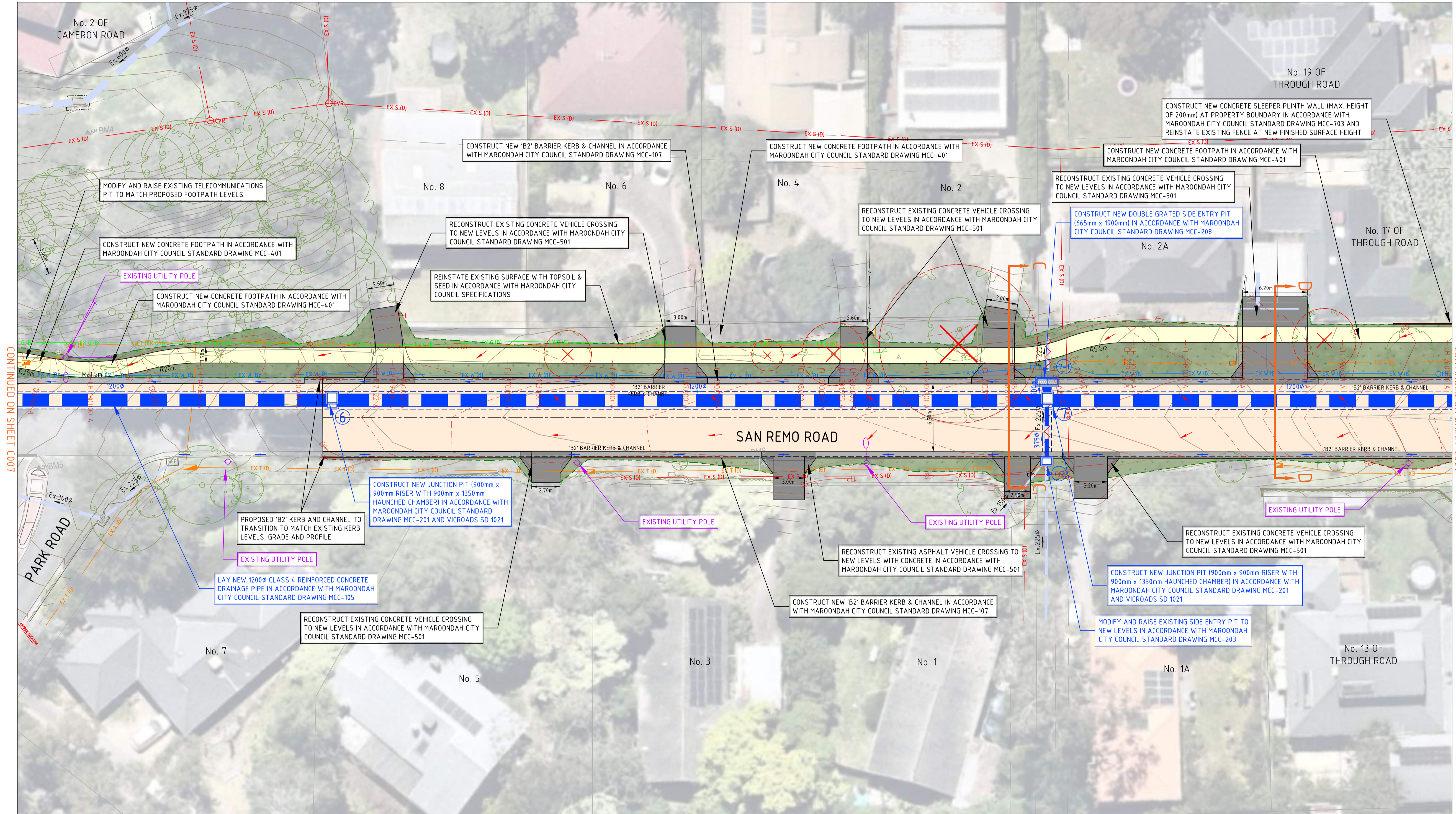
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REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.					REV.	F

LEGEND

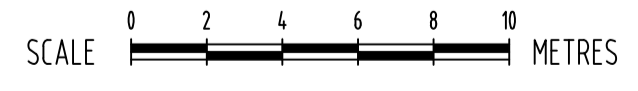
- FULL DEPTH ASPHALT PAVEMENT - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-101
- CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401
- 150mm THICK CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL MCC-501
- TOPSOIL & SEED (MAROONDAH CITY COUNCIL APPROVED) REINSTATEMENT - REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS
- CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107
- EXISTING DRAINAGE PIPE
- REMOVE/DECOMMISSION EXISTING DRAINAGE PIPE
- NEW DRAINAGE PIPE
- NEW DRAINAGE PIT
- SUBSURFACE DRAINAGE - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-103
- SD
- SUBSURFACE DRAINAGE FLUSHOUT RISER & COVER - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-104
- DIRECTION OF CHANNEL FLOW
- DIRECTION OF PAVEMENT SHEET FLOW
- FILL BATTER EXTENT
- CUT BATTER EXTENT
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.20m)
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GENERAL LAYOUT PLAN



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REV	DESCRIPTION	DATE	INIT	APP				
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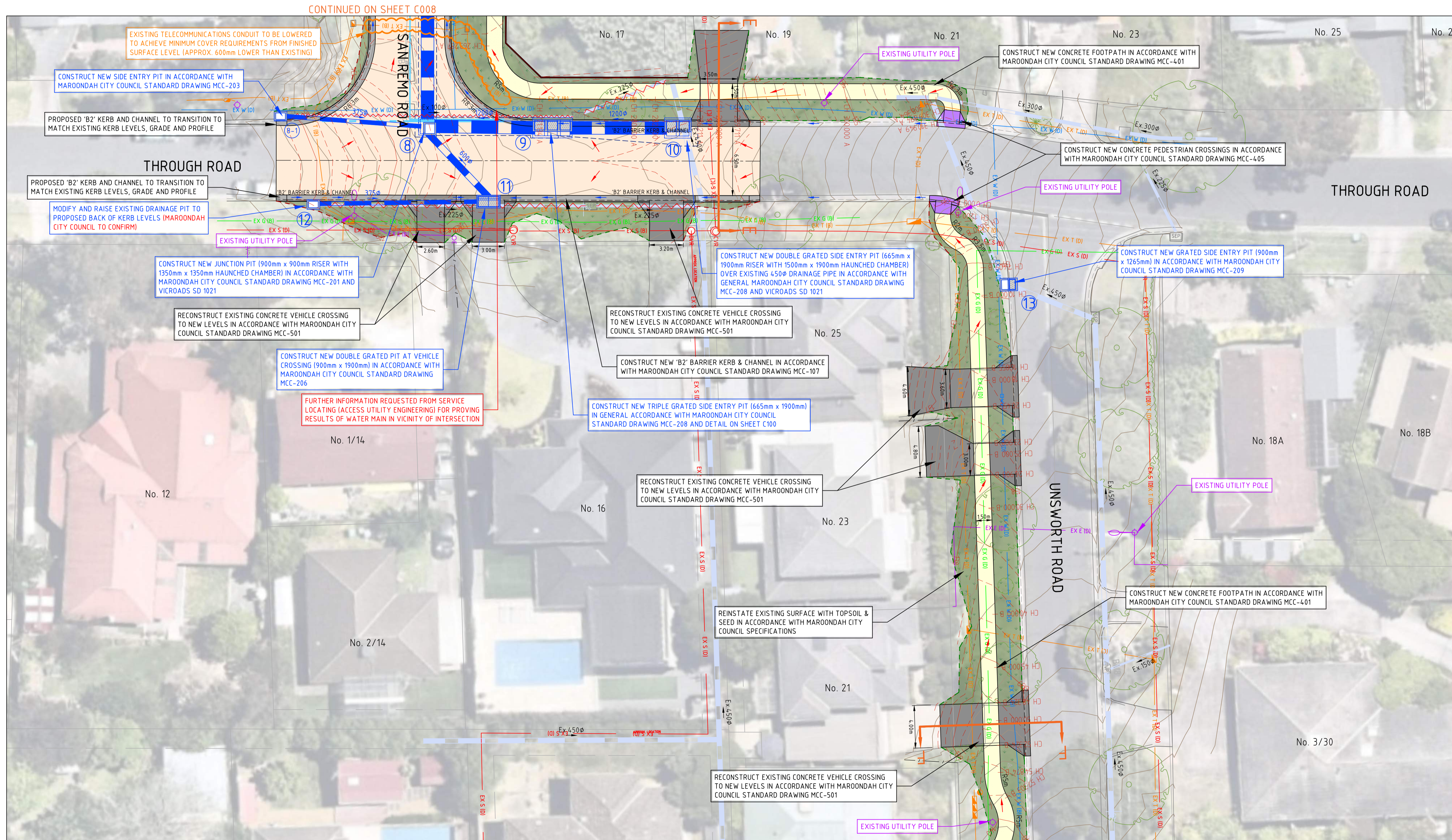
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- SUBSURFACE DRAINAGE - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-103
- SUBSURFACE DRAINAGE FLUSHOUT RISER & COVER - INSTALLED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-104
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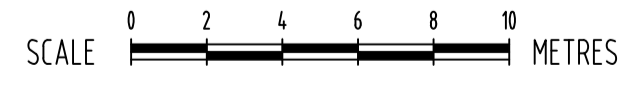
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GENERAL LAYOUT PLAN



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CLIENT

OR AS SHOWN

ORIENTATION

HEIGHT DATUM

AHD

COORDINATE DATUM

MGA 20 ZONE 55

SURVEY DATE

DEC 2023

AERIAL IMAGE DATE

10-11-2023

ADELAIDE
MELBOURNE
SYDNEY
BRISBANE

ENGINEERING FORWARD THINKING

P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122

fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185

ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT

MAROONDAH CITY COUNCIL

PROJECT TITLE

STORMWATER MANAGEMENT IMPROVEMENT WORKS

SITE ADDRESS

SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134

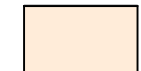
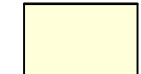



DRAWING TITLE









GENERAL LAYOUT PLAN




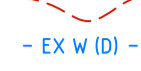
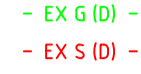
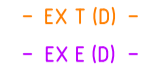






DESIGNED	KC / MC	DRAWN	EW / KC
CHECKED	AH	NO. OF SHEETS	43
SCALE	1:200@A1	DATE STARTED	13-05-2024
SITE ID & JOB NO.	S67850-290035	REV.	
DRAWING NO.	C009		F

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LEGEND

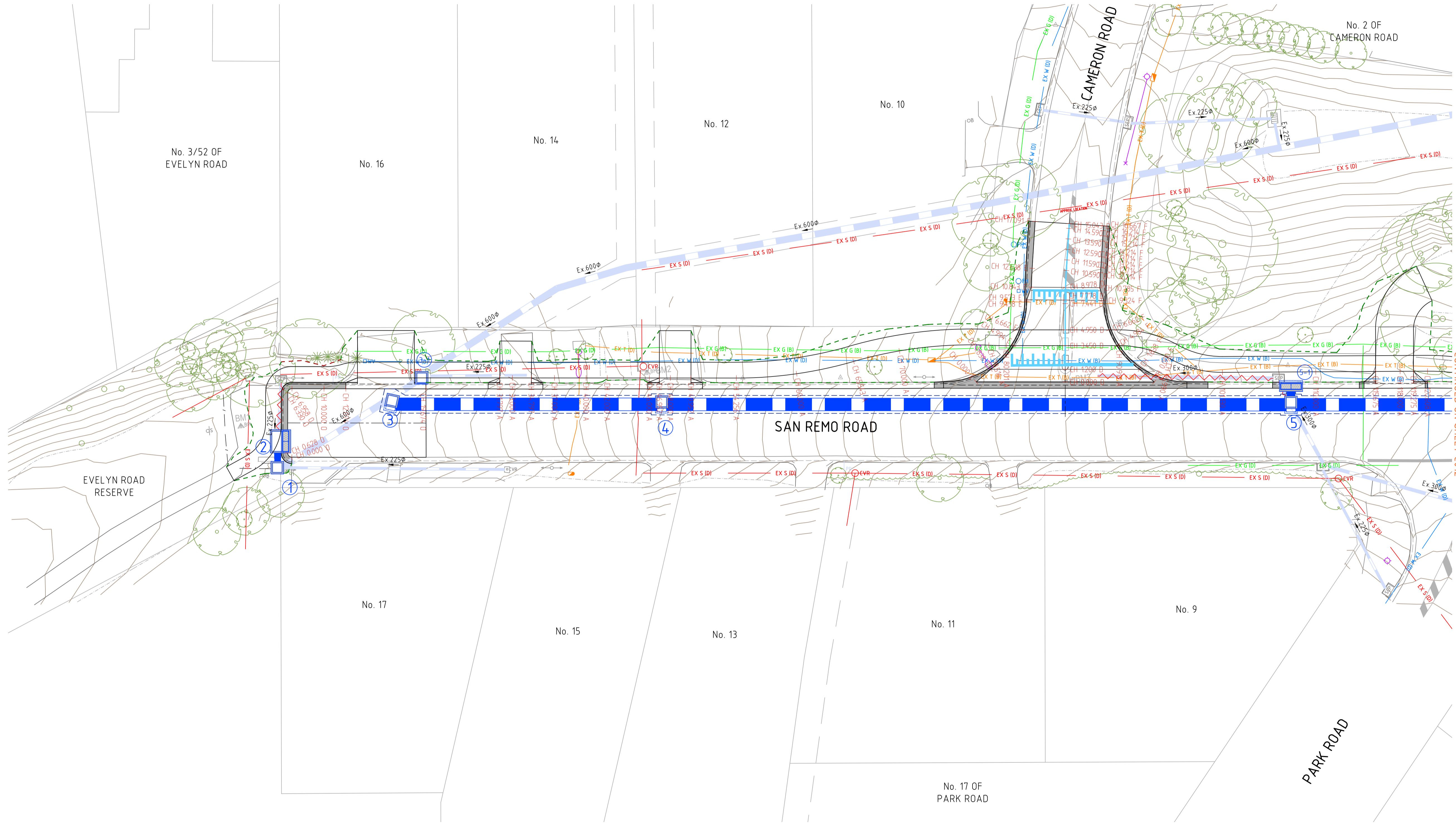
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SURVEY SETOUT PLAN
SCALE 0 2 4 6 8 10 METRES

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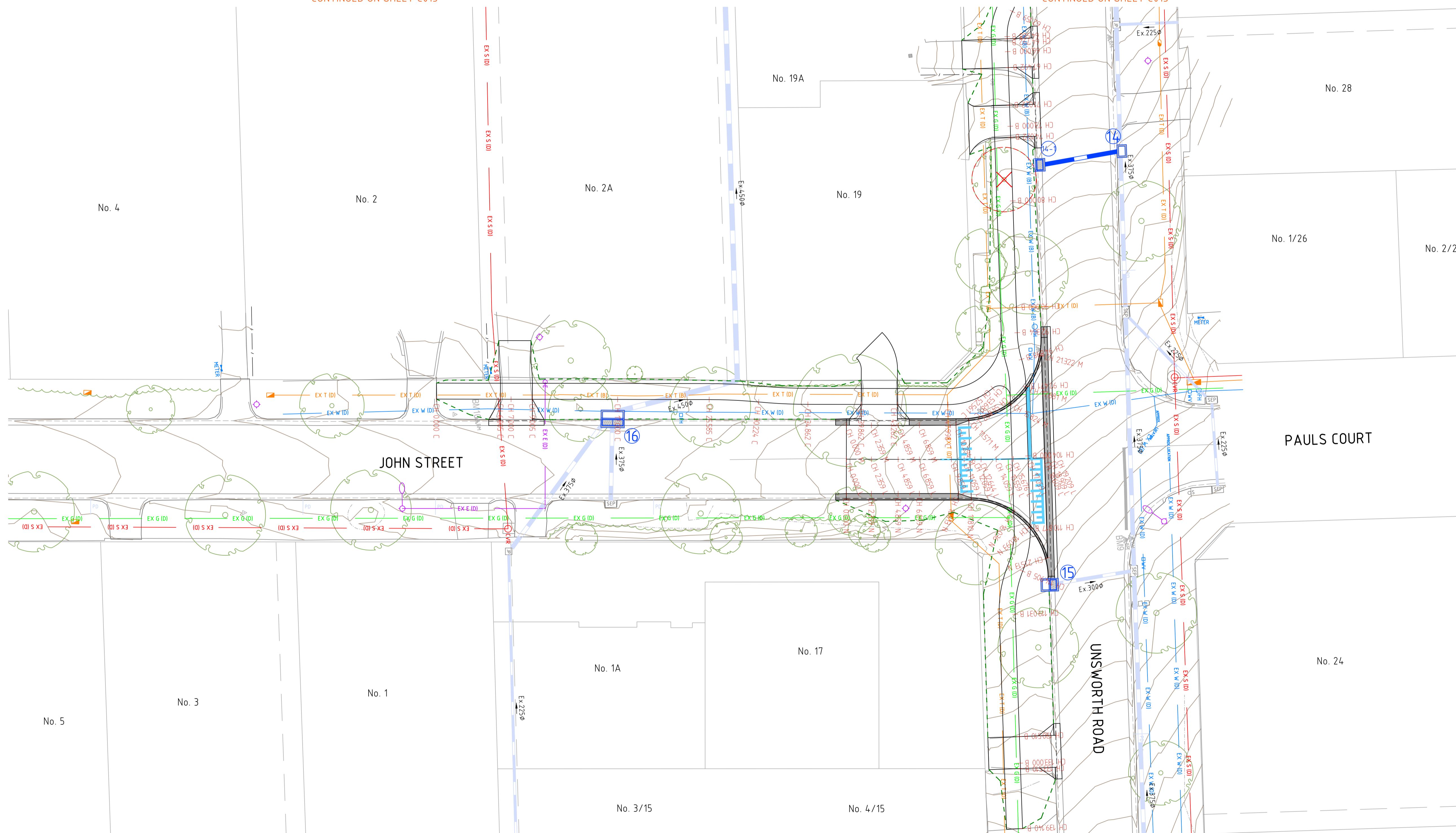
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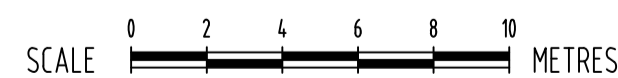
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CONTINUED ON SHEET C013

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SURVEY SETOUT PLAN



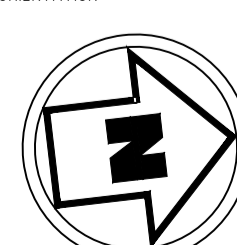
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CLIENT



ORIENTATION



HEIGHT DATUM

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COORDINATE DATUM

MGA 20 ZONE 55

SURVEY DATE

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FMG 50 YEARS
ADELAIDE MELBOURNE SYDNEY BRISBANE
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P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
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CLIENT

MAROONDAH CITY COUNCIL

PROJECT TITLE

STORMWATER MANAGEMENT IMPROVEMENT WORKS

SITE ADDRESS

SAN REMO ROAD CATCHMENT

RINGWOOD NORTH, VIC, 3134

DRAWING TITLE

SURVEY SETOUT PLAN

DESIGNED KC / MC DRAWN EW / KC

CHECKED AH No. OF SHEETS 43

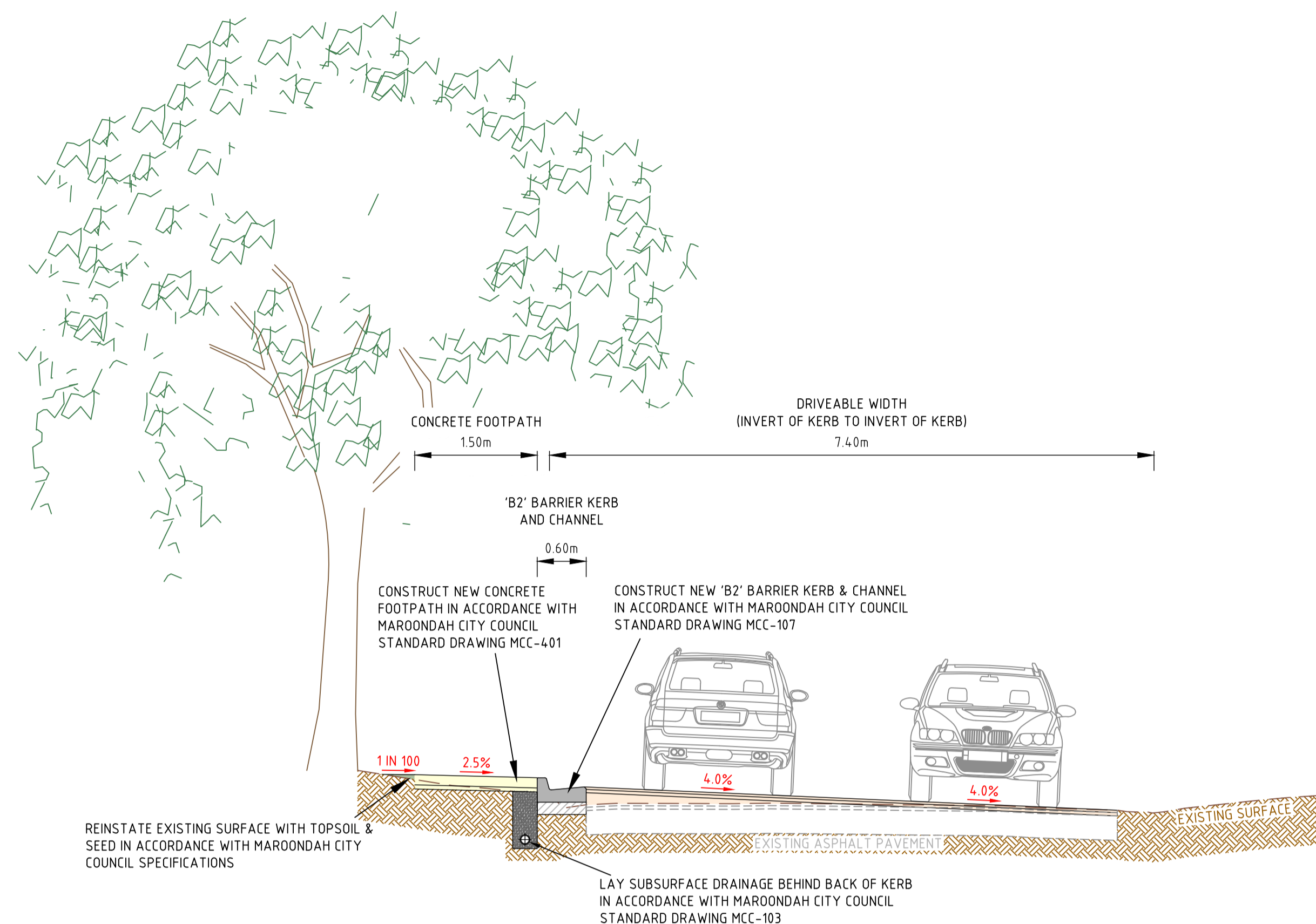
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DRAWING No. C014 F

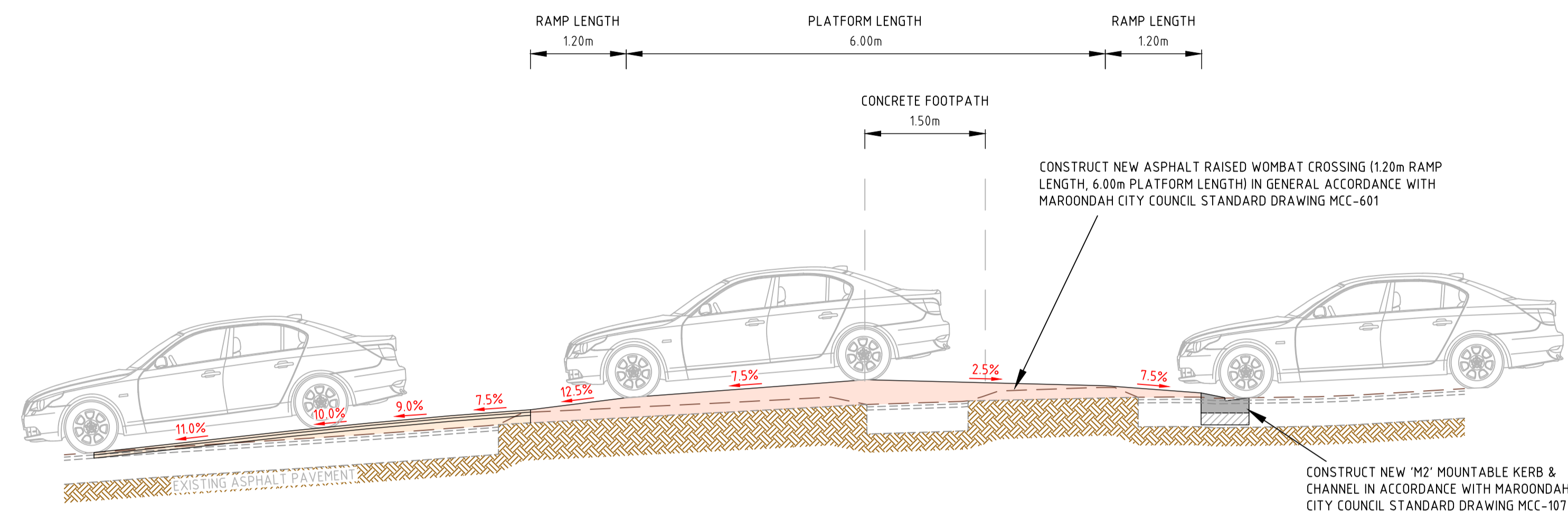


WARNING
BEWARE UNDERGROUND SERVICES
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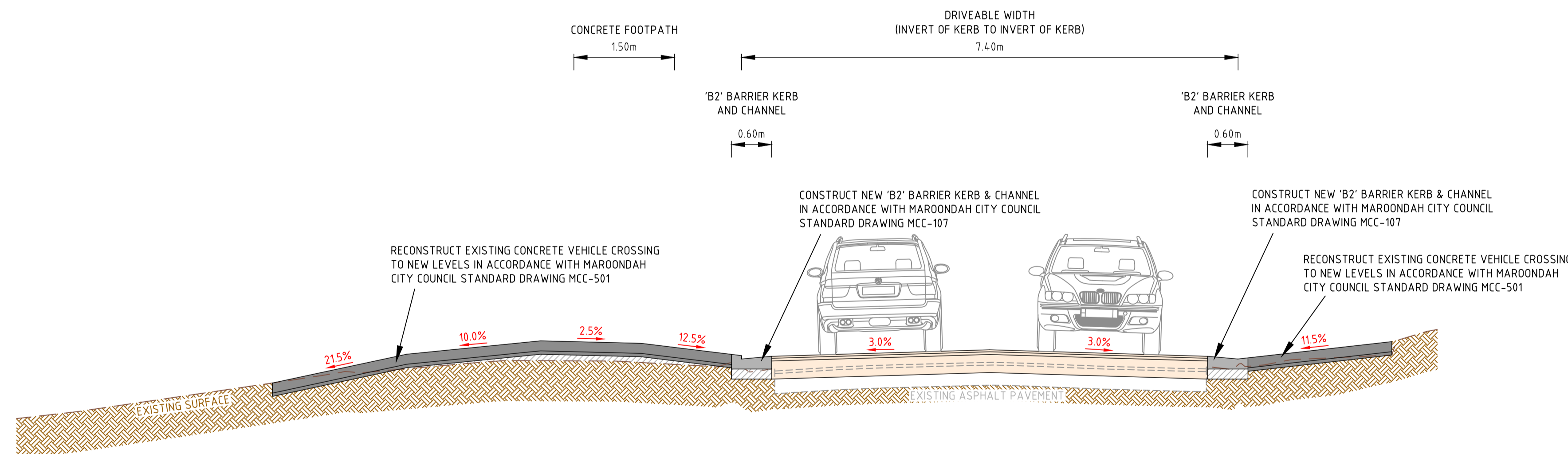
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TYPICAL SECTION B-B

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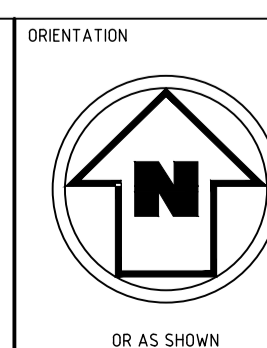
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NOT FOR CONSTRUCTION

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E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC	
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC	
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC	
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC	
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC	

CLIENT



HEIGHT DATUM
AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023

FMG 50 YEARS
ADELAIDE MELBOURNE SYDNEY BRISBANE
ENGINEERING FORWARD THINKING
P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

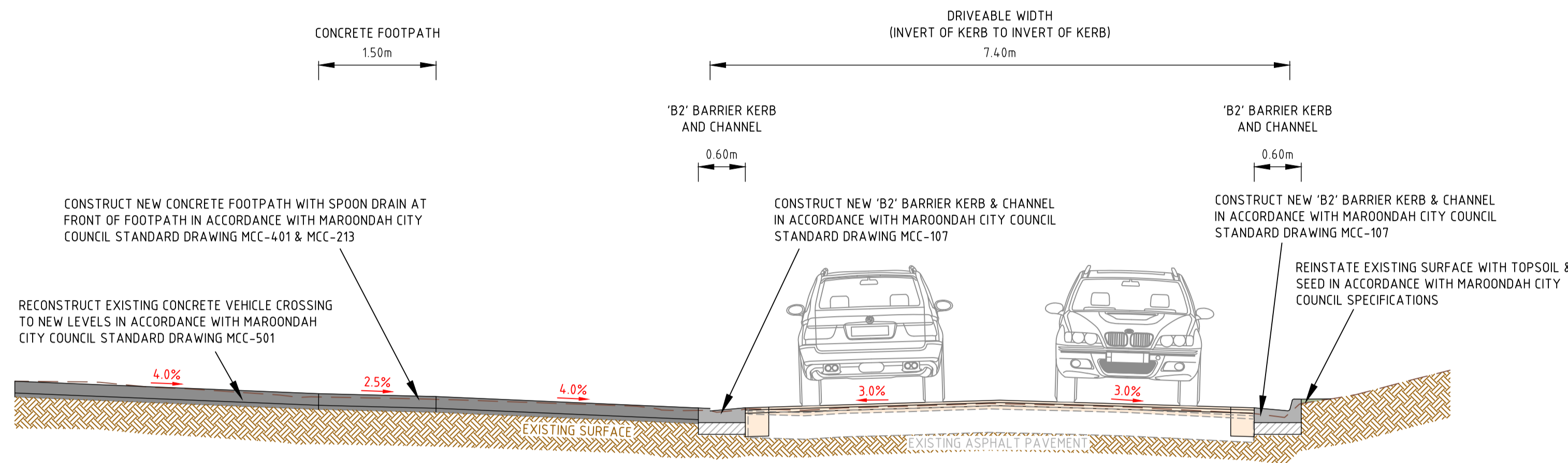
CLIENT

MAROONDAH CITY COUNCIL
PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
DRAWING TITLE
TYPICAL SECTIONS A-A, B-B, AND C-C

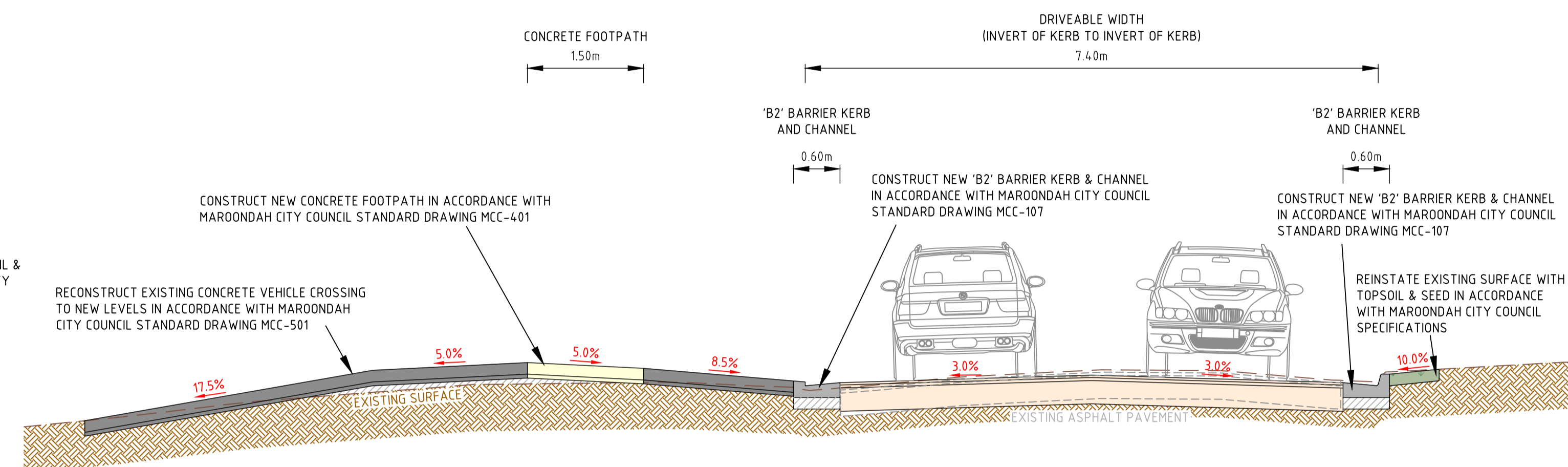
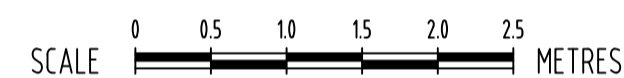
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KC / MC	EW / KC	43
CHECKED	DATE STARTED	REV.
AH	13-05-2024	
SCALE	1:50@A1	DRAWING NO.
		S67850-290035
		C011



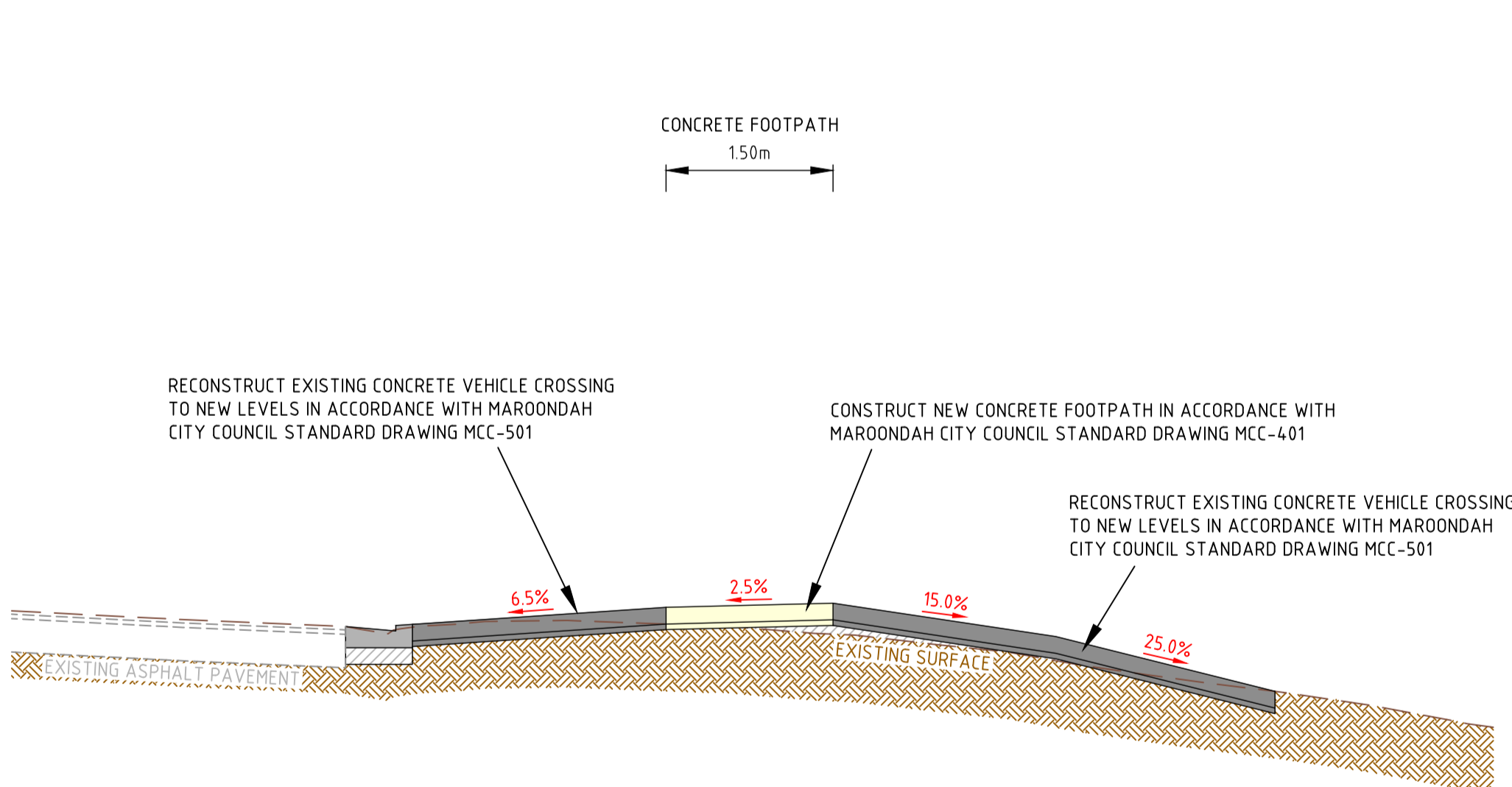
WARNING
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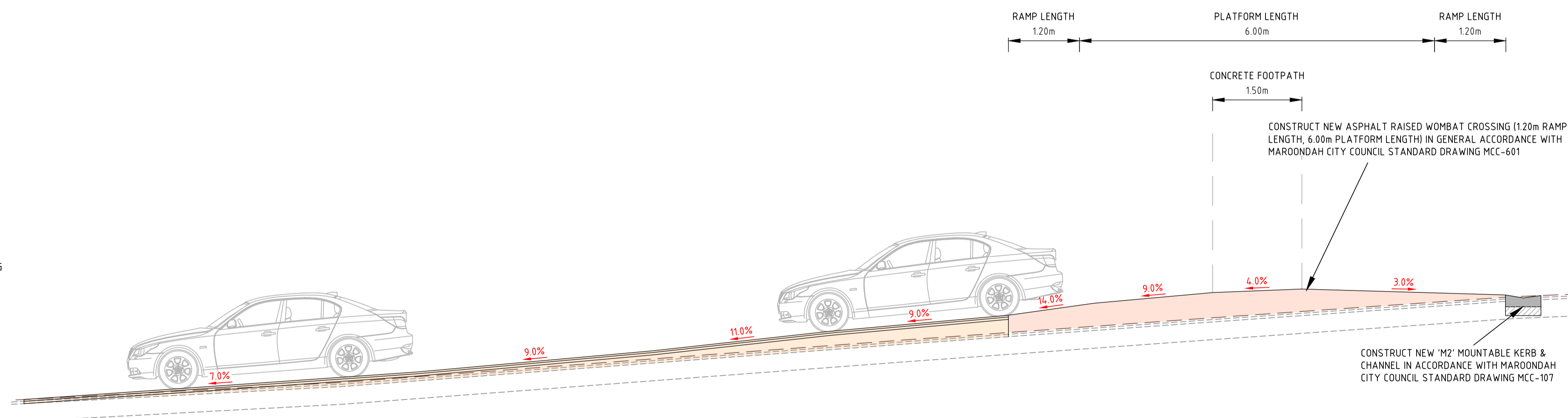
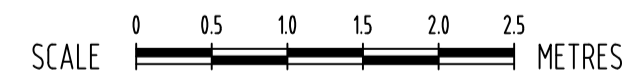
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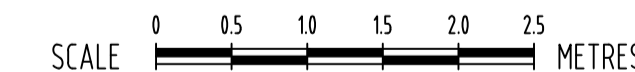
TYPICAL SECTION E-E



TYPICAL SECTION F-F



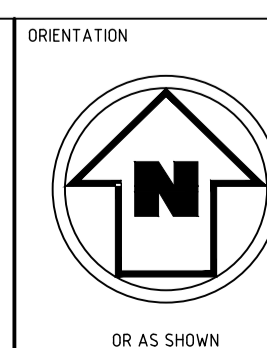
TYPICAL SECTION G-G



100% DETAILED DESIGN
 NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	INIT	APP
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E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT



HEIGHT DATUM
AHD
 COORDINATE DATUM
MGA 20 ZONE 55
 SURVEY DATE
DEC 2023
 AERIAL IMAGE DATE
10-11-2023

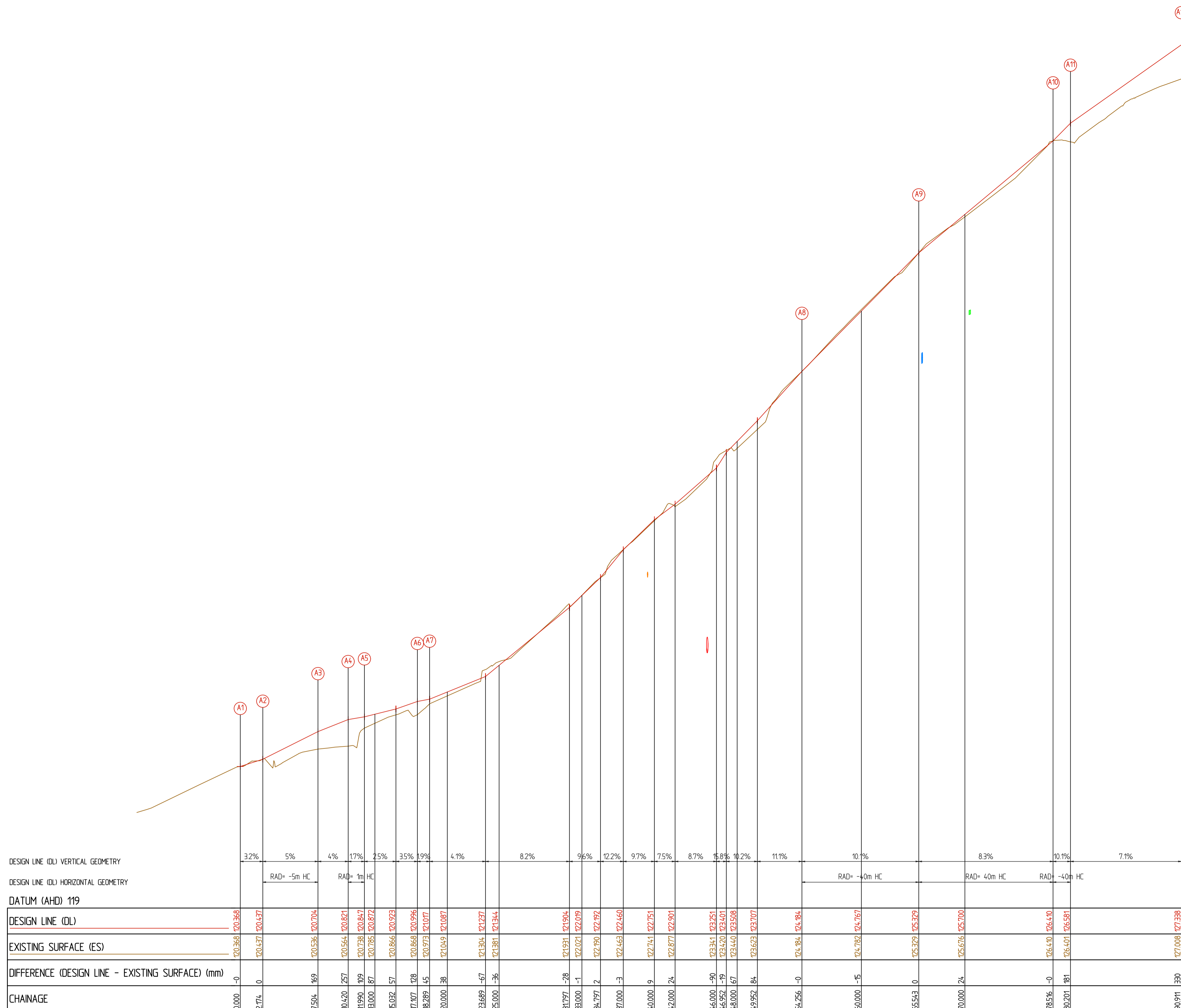
FMG 50 YEARS ADELAIDE MELBOURNE SYDNEY BRISBANE
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 P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
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CLIENT
MAROONDAH CITY COUNCIL
 PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
 SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
 DRAWING TITLE
TYPICAL SECTIONS D-D, E-E, F-F AND G-G

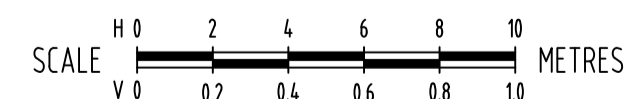
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SITE ID & JOB No.	REV.
S67850-290035	
DRAWING No.	
C012	F



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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)

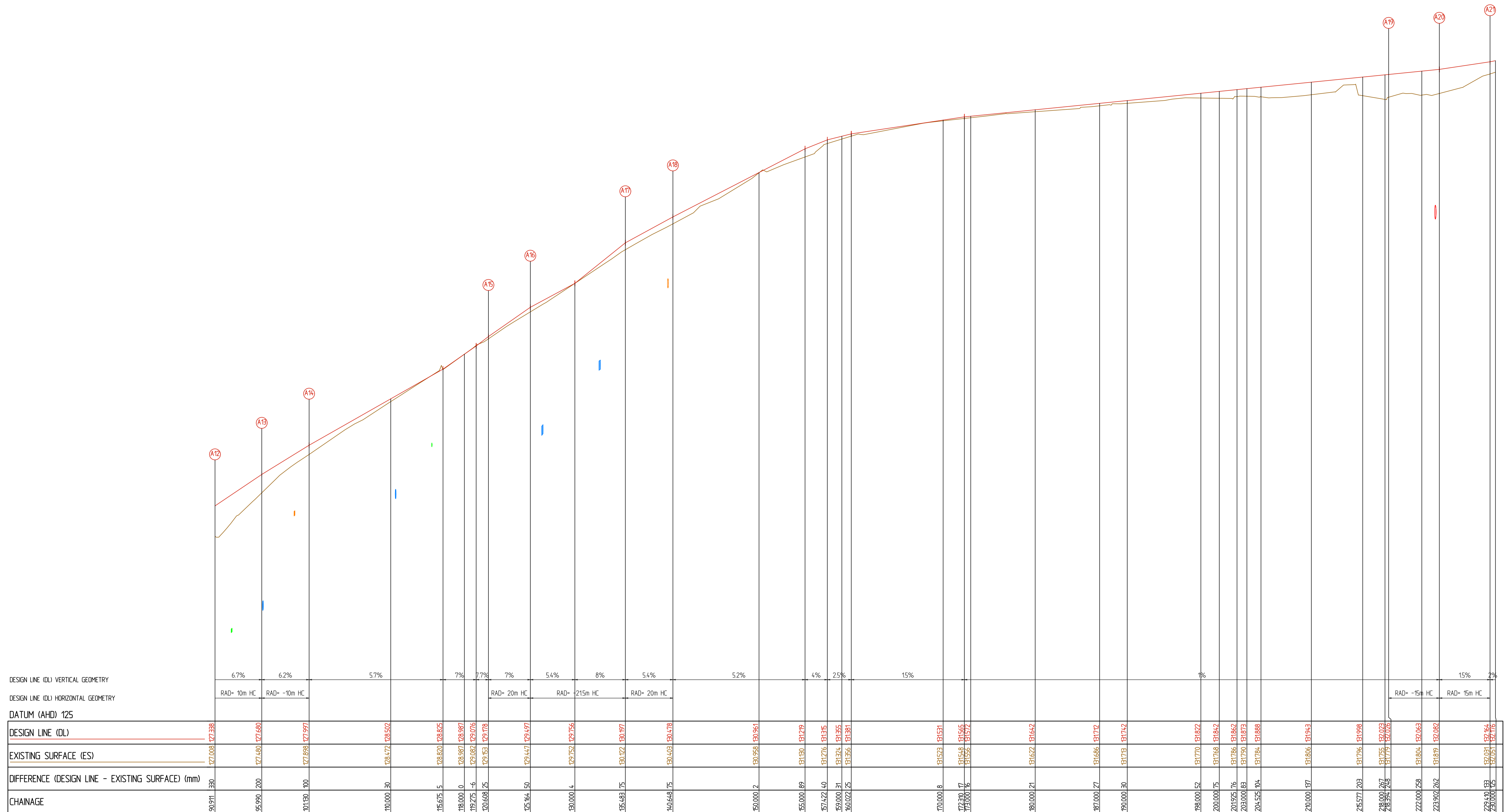


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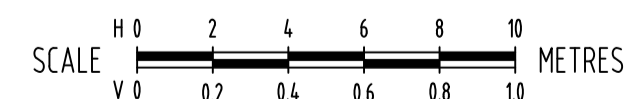
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F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-01-2025 28-08-2025 03-02-2025 18-10-2024 21-08-2024 28-06-2024	KC MC RY KC KC KC KC	KC KC KC KC KC KC	APP APP APP APP APP APP	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	REV DESCRIPTION DATE INIT APP	



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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)

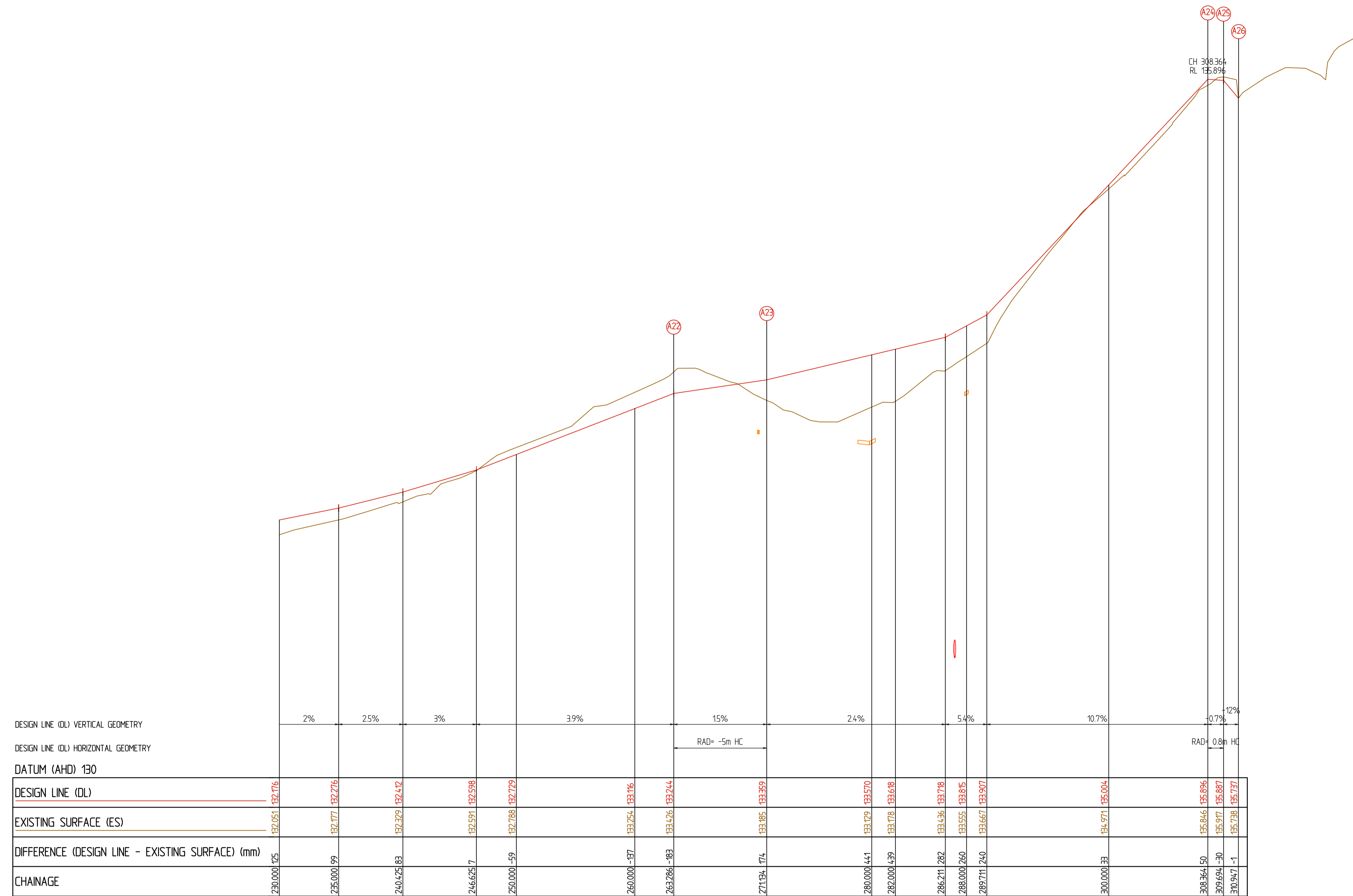


100% DETAILED DESIGN
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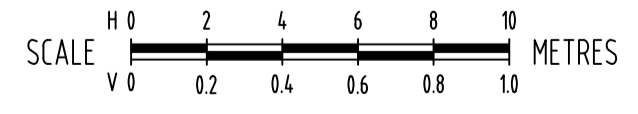
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F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-01-2025 28-08-2025 03-02-2025 18-10-2024 21-08-2024 28-06-2024	KC MC RY KC KC KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	COORDINATE DATUM MGA 20 ZONE 55	ADELAIDE MELBOURNE SYDNEY BRISBANE	PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134	CHECKED AH	NO. OF SHEETS 43
REV DESCRIPTION DATE INIT APP	DATE	INIT APP	SCALE H1:200/L1:20@A1 DATE STARTED 13-05-2024 SITE ID & JOB NO. S67850-290035 DRAWING NO. C018	SURVEY DATE DEC 2023	ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122 fmgeengineering.com.au P 1300 975 878 ABN 58 083 071 185 ISO 9001 Quality Management System ISO 45001 OH&S Management System	DRAWING TITLE LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)	REV. 01	F



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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)

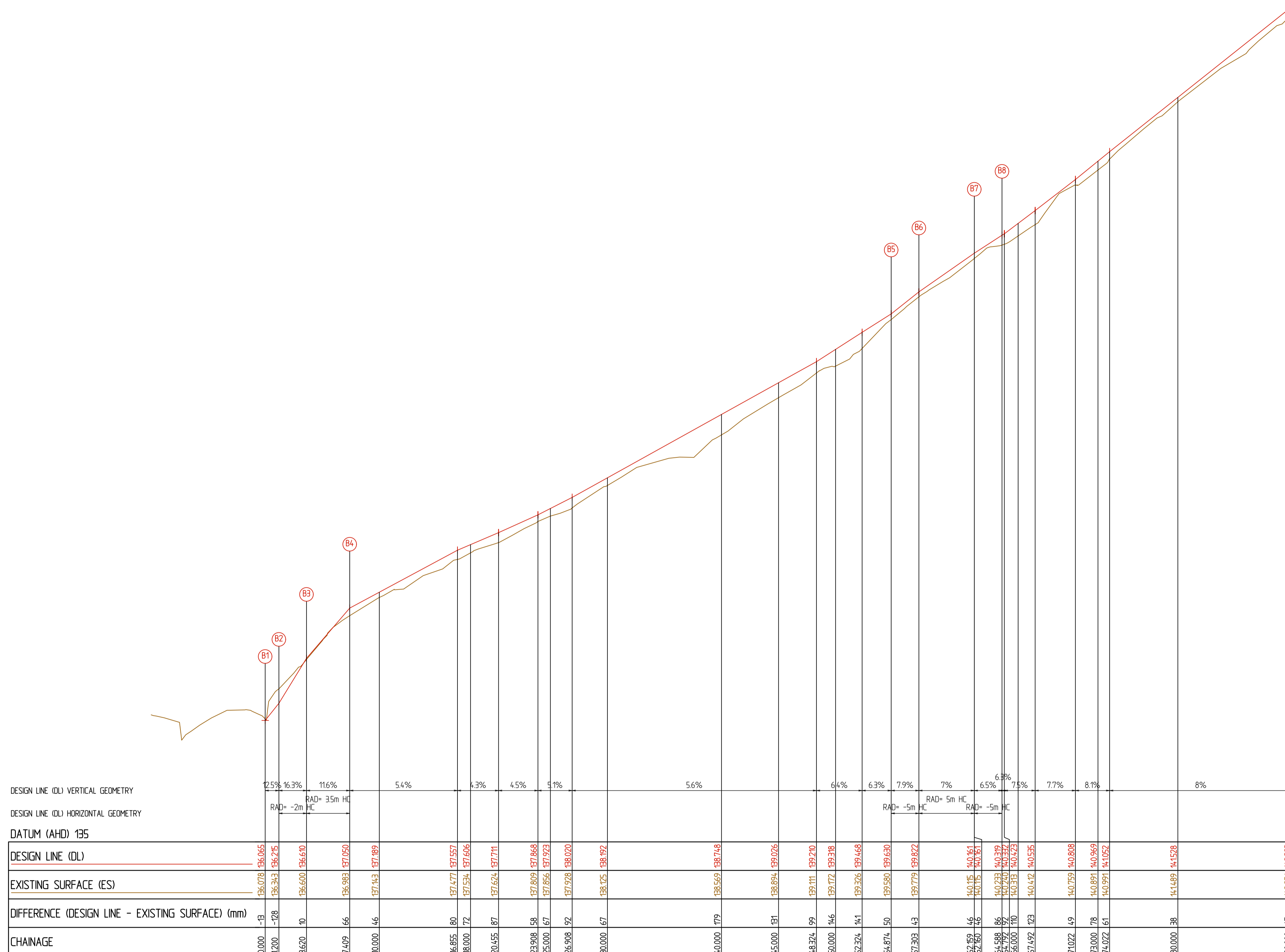


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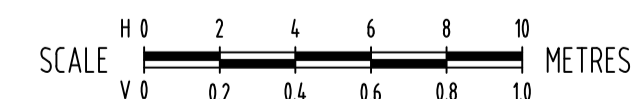
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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'B' (FOFP B)



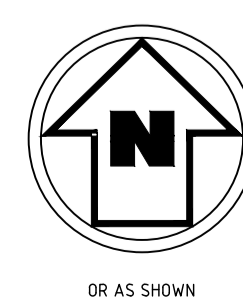
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REV	DESCRIPTION	DATE	INIT	APP
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT



ORIENTATION



HEIGHT DATUM

AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023

FMG 50 YEARS | ADELAIDE MELBOURNE SYDNEY BRISBANE
ENGINEERING FORWARD THINKING
P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT

MAROONDAH CITY COUNCIL

PROJECT TITLE

STORMWATER MANAGEMENT IMPROVEMENT WORKS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134

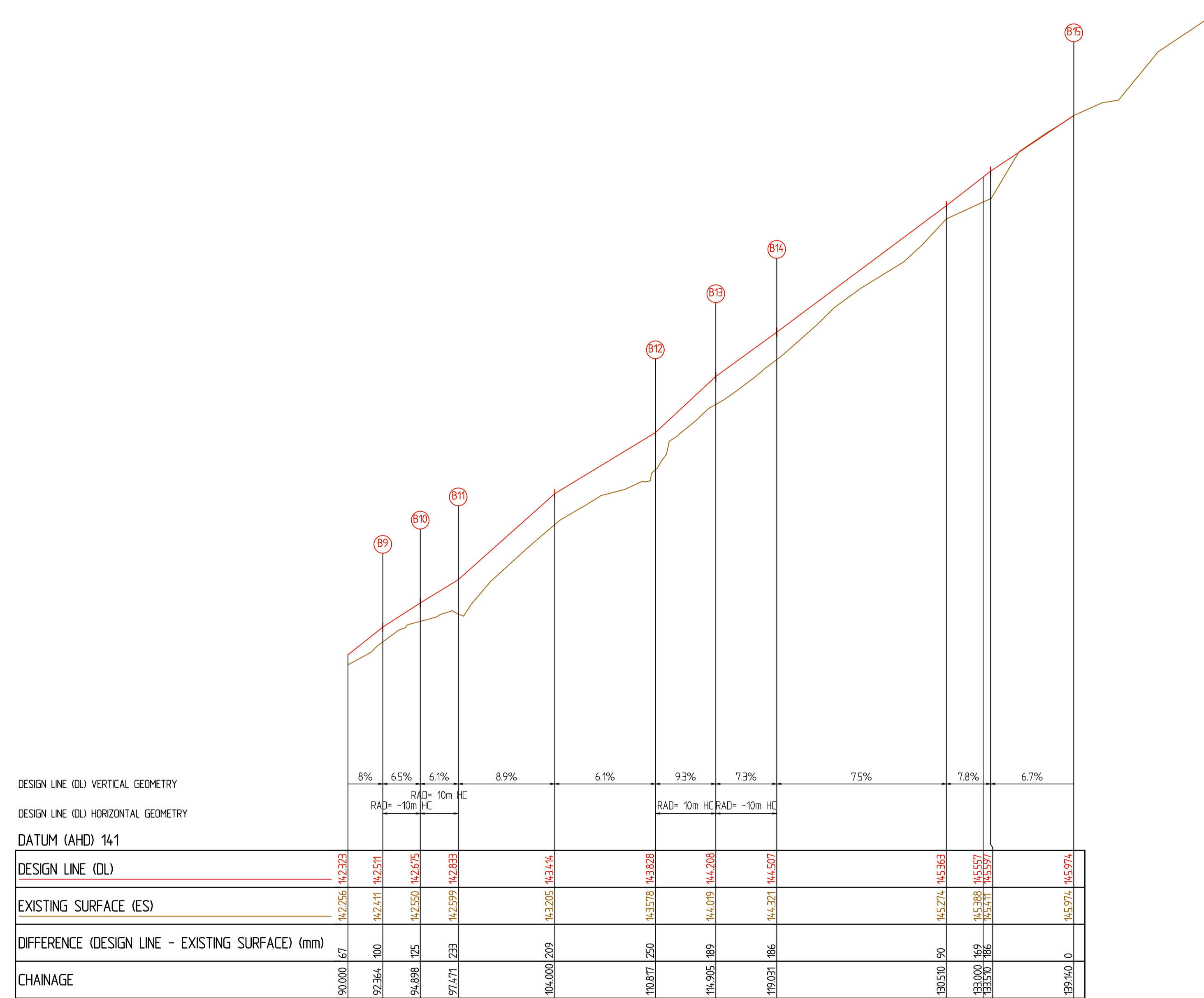
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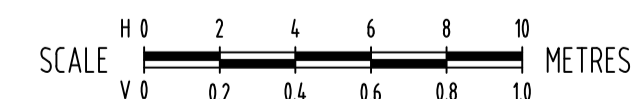
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CHECKED	AH	DATE STARTED	13-05-2024
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SITE ADDRESS	SAN REMO ROAD CATCHMENT	REV.	
DRAWING NO.	S67850-290035		
	C020		F



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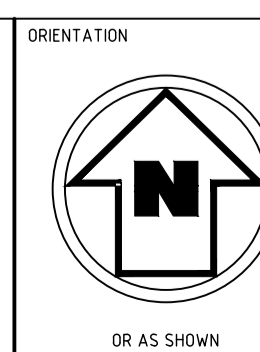
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100% DETAILED DESIGN
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E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT



HEIGHT DATUM
AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023

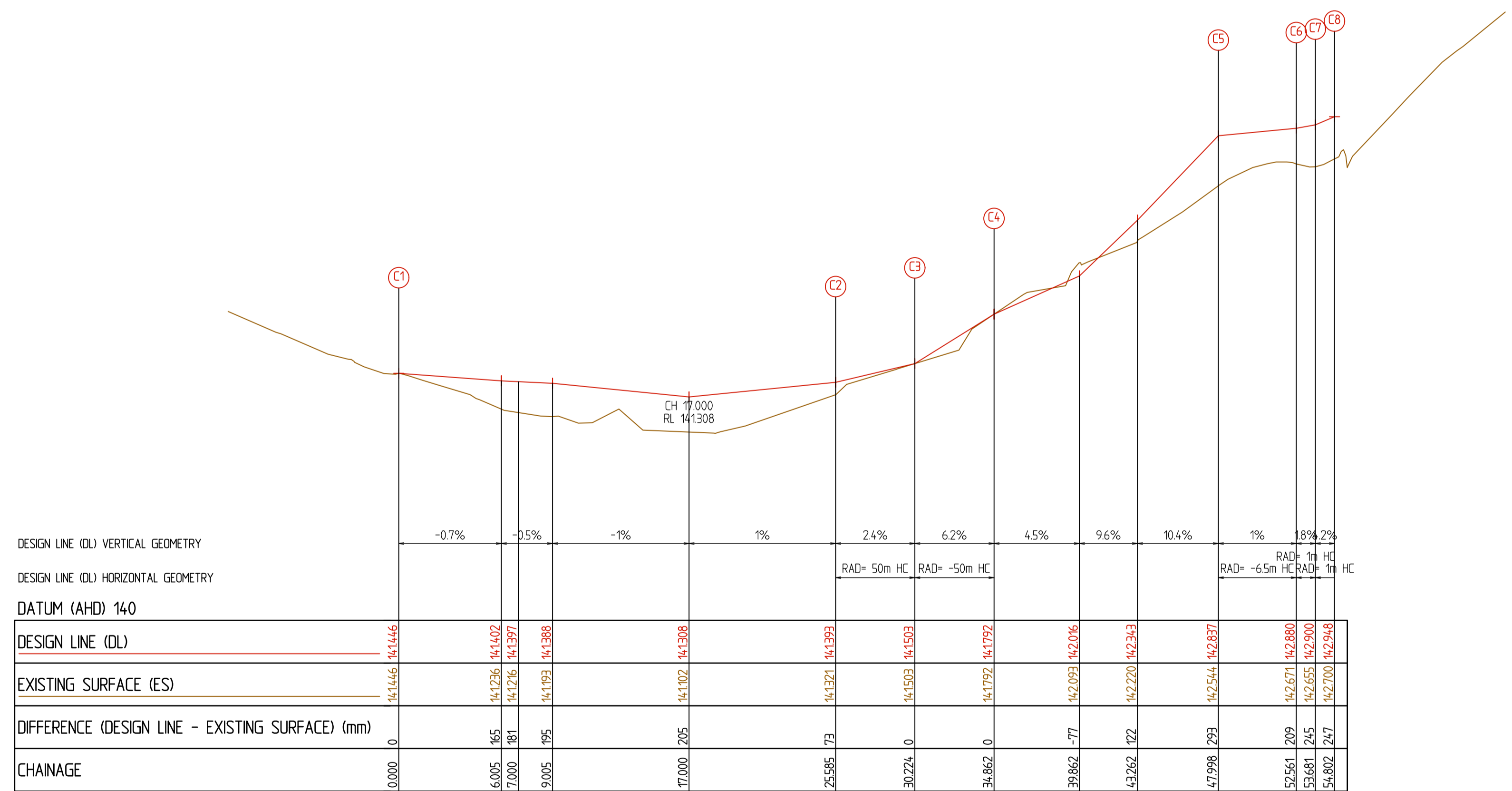
FMG 50 YEARS
ADELAIDE MELBOURNE SYDNEY BRISBANE
ENGINEERING FORWARD THINKING
P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT
MAROONDAH CITY COUNCIL
PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
DRAWING TITLE
LONGITUDINAL SECTION - FRONT OF FOOTPATH 'B' (FOFP B)

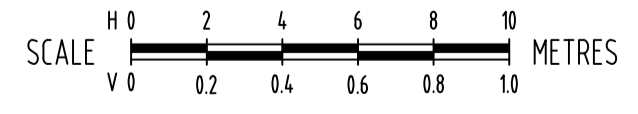
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SCALE	H1:200/L1:20@A1	DATE STARTED	13-05-2024
SITE ID & JOB No.	S67850-290035	REV.	
DRAWING No.	C021		F



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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'C' (FOFP C)

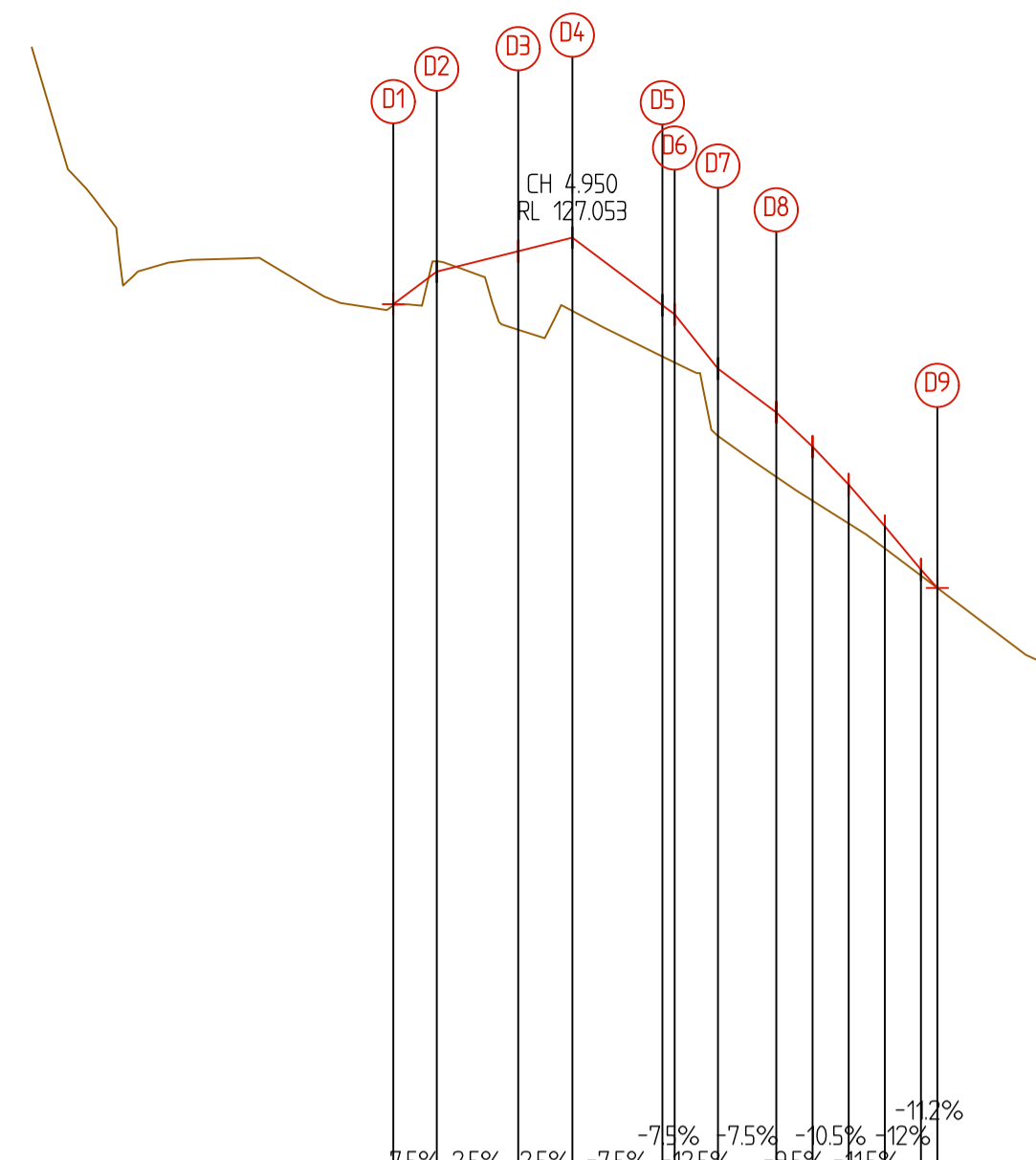


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REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.												
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC													
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.												
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.												
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC													
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC													
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC													



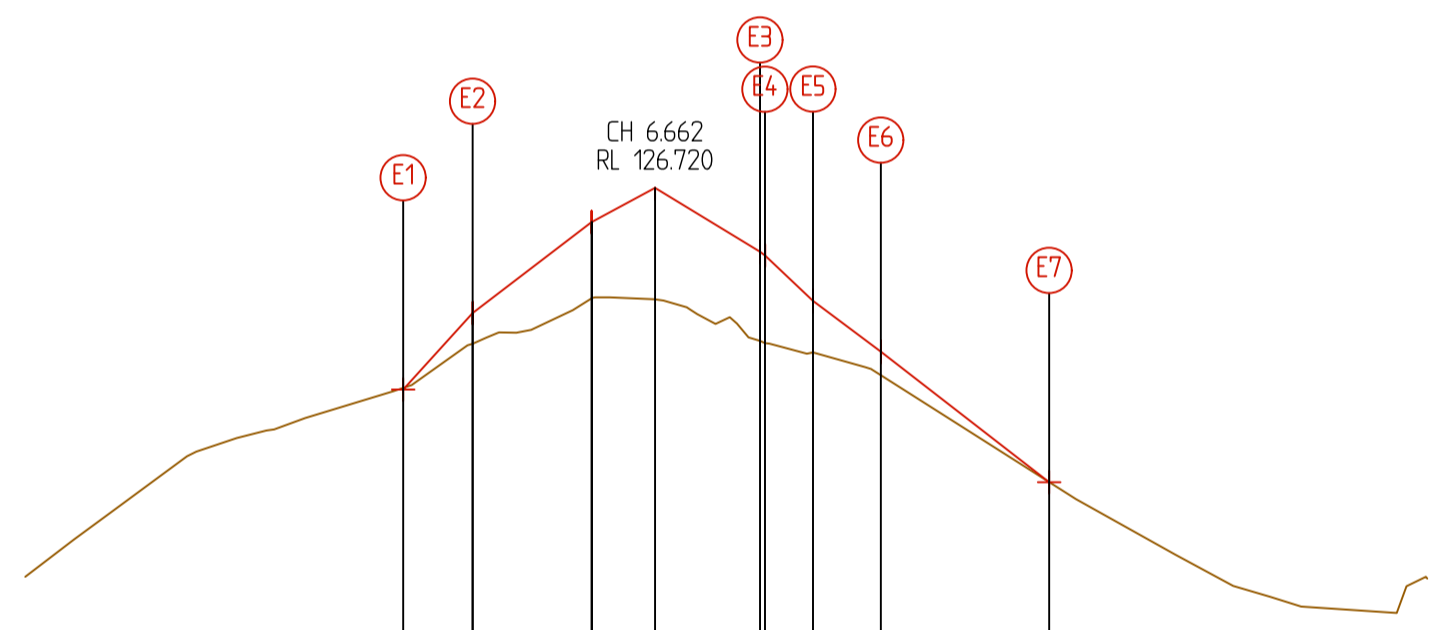
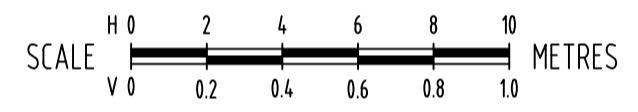
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DESIGN LINE (DL) VERTICAL GEOMETRY
DESIGN LINE (DL) HORIZONTAL GEOMETRY
DATUM (AHD) 124

CHAINAGE	DESIGN LINE (DL)	EXISTING SURFACE (ES)	DIFFERENCE (DESIGN LINE - EXISTING SURFACE) (mm)
0.000	126.865	126.869	-4
1.200	126.987	126.959	28
3.450	126.798	127.015	-217
4.950	126.650	127.053	-403
7.441	126.724	126.866	-142
7.778	126.707	126.861	-154
8.978	126.504	126.691	-187
10.590	126.391	126.570	-179
11.590	126.305	126.475	-169
12.590	126.262	126.370	-107
13.590	126.191	126.255	-61
14.590	126.118	126.135	-17
15.043	126.081	126.084	0

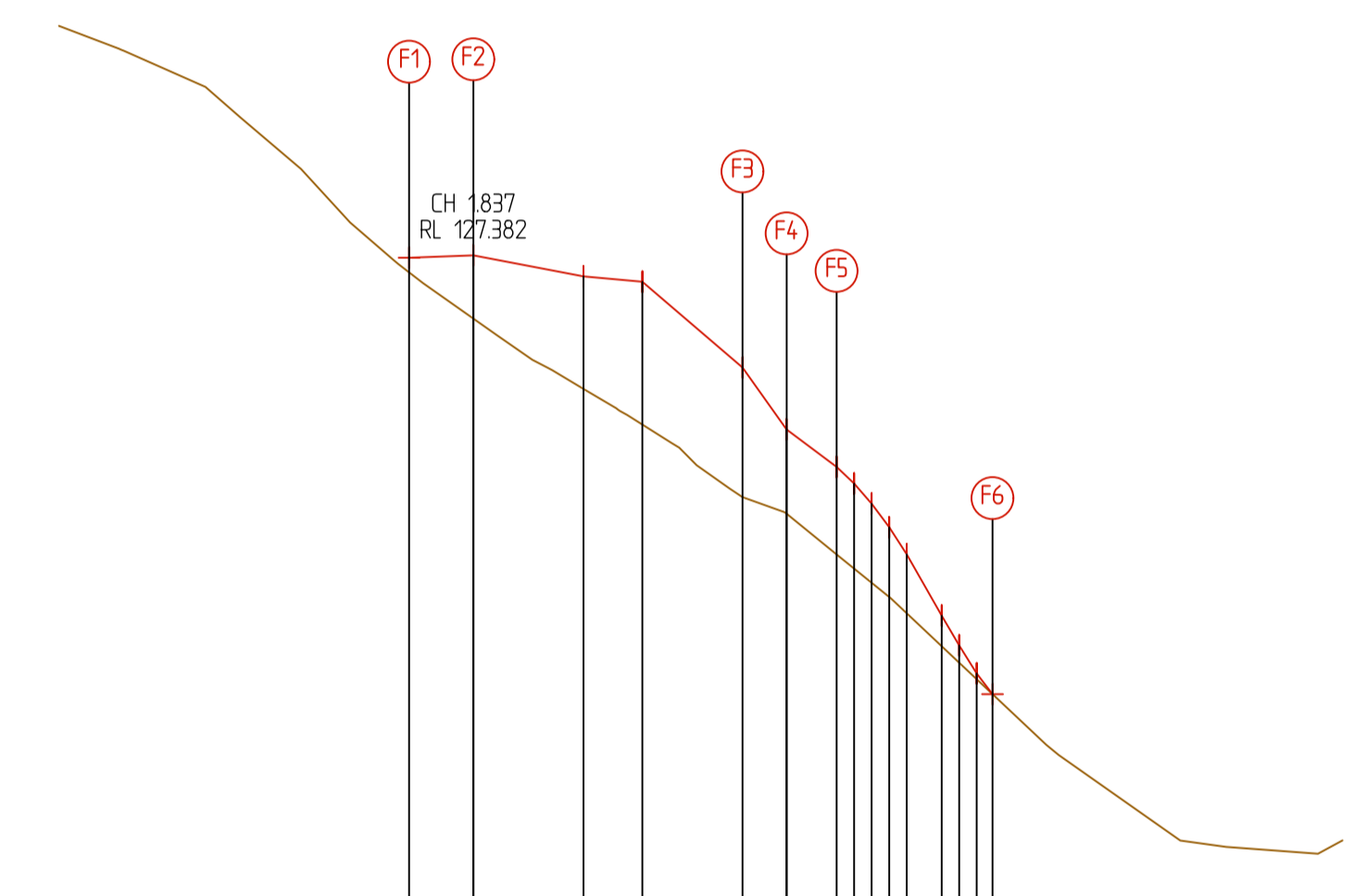
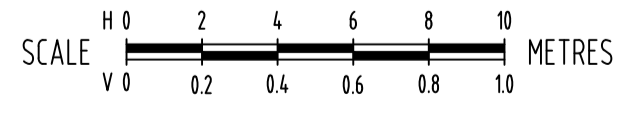
LONGITUDINAL SECTION - CENTRELINE 'D' (CL D)



DESIGN LINE (DL) VERTICAL GEOMETRY
DESIGN LINE (DL) HORIZONTAL GEOMETRY
DATUM (AHD) 124

CHAINAGE	DESIGN LINE (DL)	EXISTING SURFACE (ES)	DIFFERENCE (DESIGN LINE - EXISTING SURFACE) (mm)
0.000	126.191	126.187	-4
1.837	126.308	126.389	-81
4.984	126.428	126.630	-202
6.662	126.434	126.720	-286
9.438	126.335	126.551	-216
9.573	126.310	126.554	-244
10.843	126.285	126.471	-186
12.638	126.225	126.287	-62
17.091	125.942	125.942	0

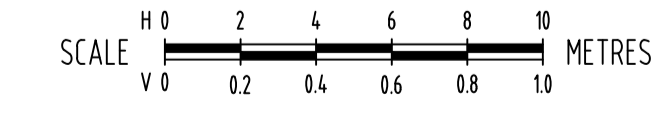
LONGITUDINAL SECTION - LIP OF KERB 'E' (LOK E)



DESIGN LINE (DL) VERTICAL GEOMETRY
DESIGN LINE (DL) HORIZONTAL GEOMETRY
DATUM (AHD) 124

CHAINAGE	DESIGN LINE (DL)	EXISTING SURFACE (ES)	DIFFERENCE (DESIGN LINE - EXISTING SURFACE) (mm)
0.000	127.333	127.375	-42
1.837	127.201	127.382	-181
4.984	127.000	127.372	-372
6.662	126.898	127.306	-408
9.524	127.061	127.061	0
10.784	126.643	126.884	-241
12.214	126.577	126.777	-200
12.714	126.486	126.730	-244
13.714	126.405	126.604	-199
14.214	126.359	126.524	-165
14.714	126.344	126.474	-130
15.214	126.324	126.424	-100
15.714	126.310	126.374	-64
16.214	126.291	126.324	-33
16.662	126.278	126.278	0

LONGITUDINAL SECTION - LIP OF KERB 'F' (LOK F)



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REV	DESCRIPTION	DATE	INIT	APP
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT

Maroondah City Council

ORIENTATION

OR AS SHOWN

HEIGHT DATUM: AHD

COORDINATE DATUM: MGA 20 ZONE 55

SURVEY DATE: DEC 2023

AERIAL IMAGE DATE: 10-11-2023

ADELAIDE MELBOURNE SYDNEY BRISBANE

ENGINEERING FORWARD THINKING

2 Domville Ave, Hawthorn VIC 3122

1300 975 878 | ABN 58 083 071 185

ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT: MAROONDAH CITY COUNCIL

PROJECT TITLE: STORMWATER MANAGEMENT IMPROVEMENT WORKS

SITE ADDRESS: SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134

DRAWING TITLE: LONGITUDINAL SECTIONS - CENTRELINE 'D' / LIP OF KERB 'E' & 'F' (CL D, LOK E & LOK F)

DESIGNED	DRAWN	NO. OF SHEETS	DATE STARTED
KC / MC	EW / KC	43	13-05-2024

SCALE: H1:200/L1:20@A1

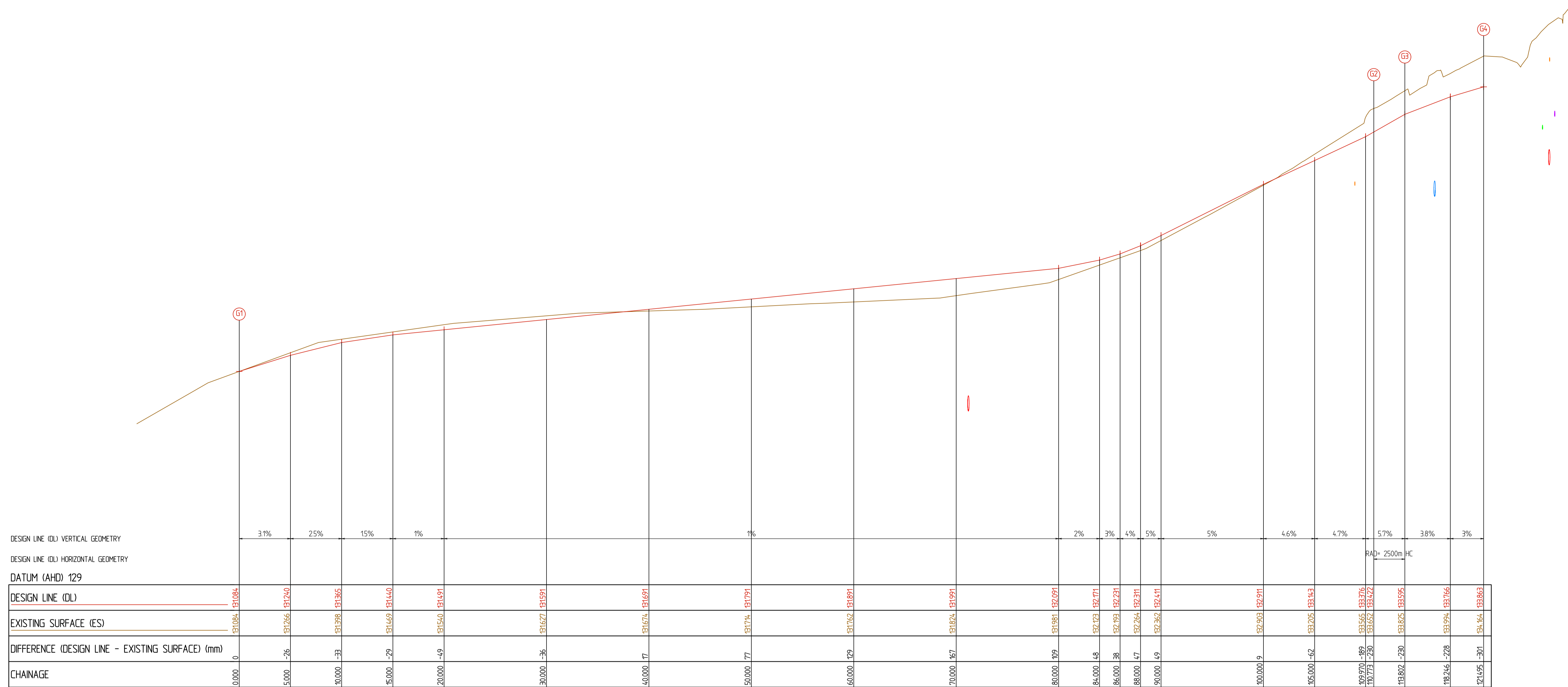
SITE ID & JOB NO: S67850-290035

DRAWING NO: C023

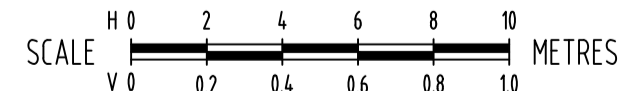
REV: F



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LONGITUDINAL SECTION - CENTRELINE 'G' (CL G)

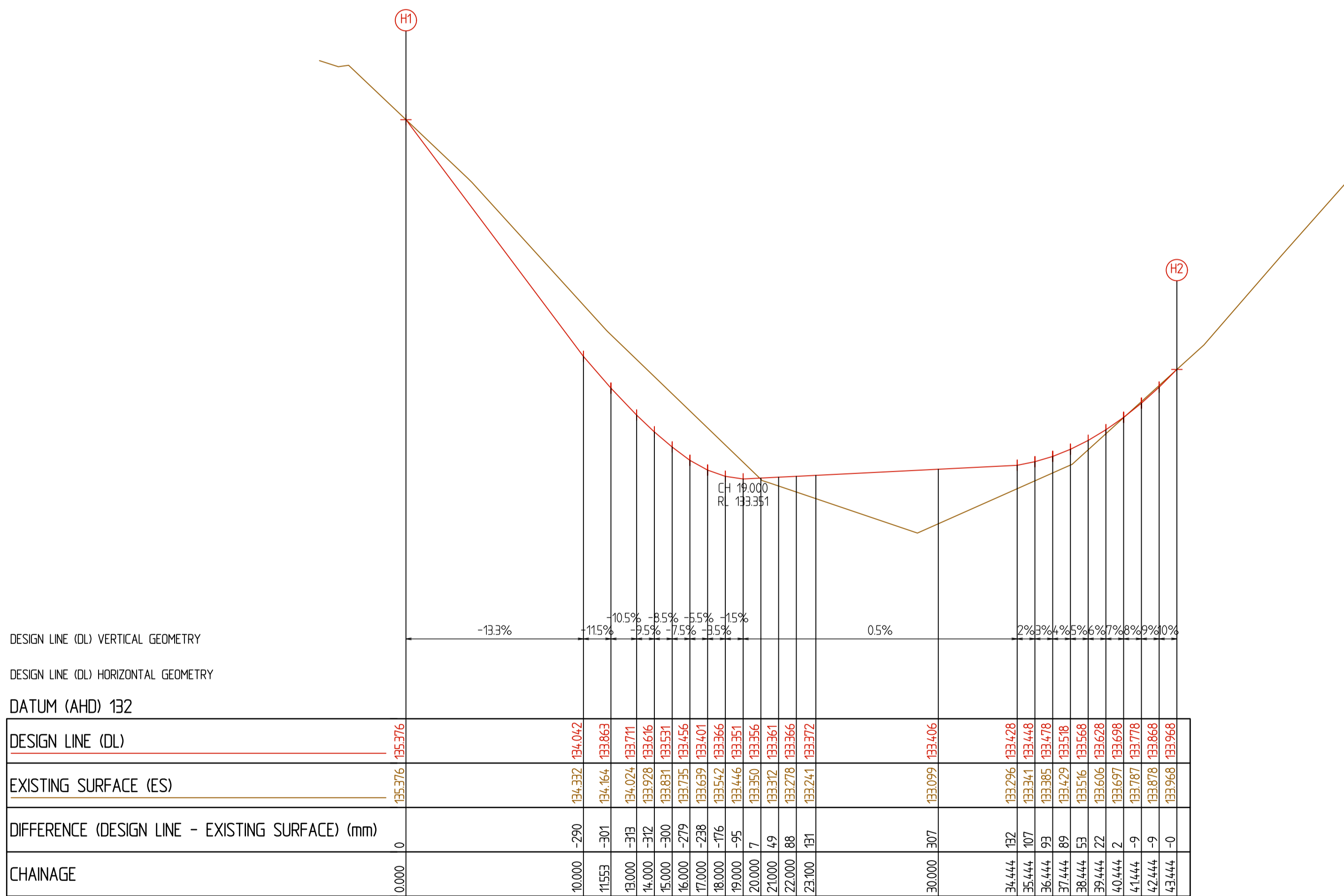


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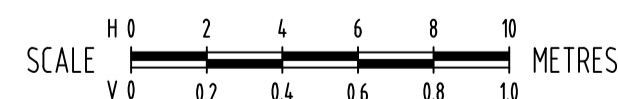
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F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-01-2025 28-08-2025 03-02-2025 18-10-2024 21-08-2024 28-06-2024	MC RY KC KC KC KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	COORDINATE DATUM MGA 20 ZONE 55	SURVEY DATE DEC 2023	PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134	CHECKED AH	DATE STARTED 13-05-2024
REV DESCRIPTION DATE INIT APP	109.000 110.000 113.000 118.000 121.000	KC KC KC KC KC	ISO 9001 Quality Management System ISO 45001 OH&S Management System	AERIAL IMAGE DATE 10-11-2023	SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134	DRAWING TITLE LONGITUDINAL SECTION - CENTRELINE 'G' (CL G)	SCALE H1:200/L1:20@A1	NO. OF SHEETS 43
							SITE ID & JOB NO. S67850-290035	REV. 1
							DRAWING NO. C024	F



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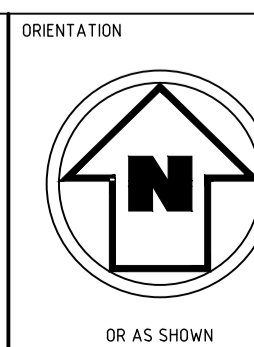
LONGITUDINAL SECTION - CENTRELINE 'H' (CL H)



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REV	DESCRIPTION	DATE	INIT	APP
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT



HEIGHT DATUM
AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023

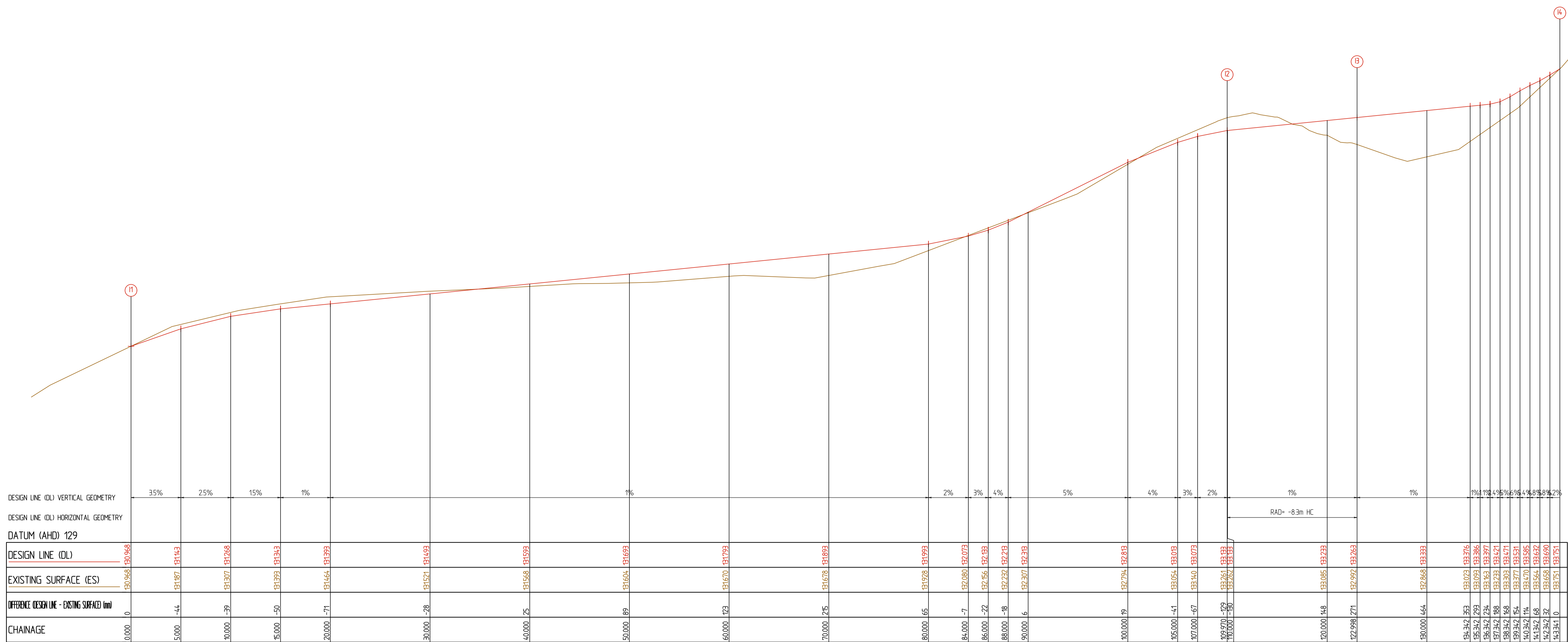
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ENGINEERING FORWARD THINKING
P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT
MAROONDAH CITY COUNCIL
PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
DRAWING TITLE
LONGITUDINAL SECTION - CENTRELINE 'H' (CL H)

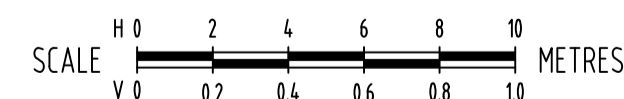
DESIGNED	DRAWN
KC / MC	EW / KC
AH	43
SCALE H1:200/L1:20@A1	DATE STARTED 13-05-2024
SITE ID & JOB No. S67850-290035	REV. C025
DRAWING No.	F



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LONGITUDINAL SECTION - LIP OF KERB 'I' (LOK I)

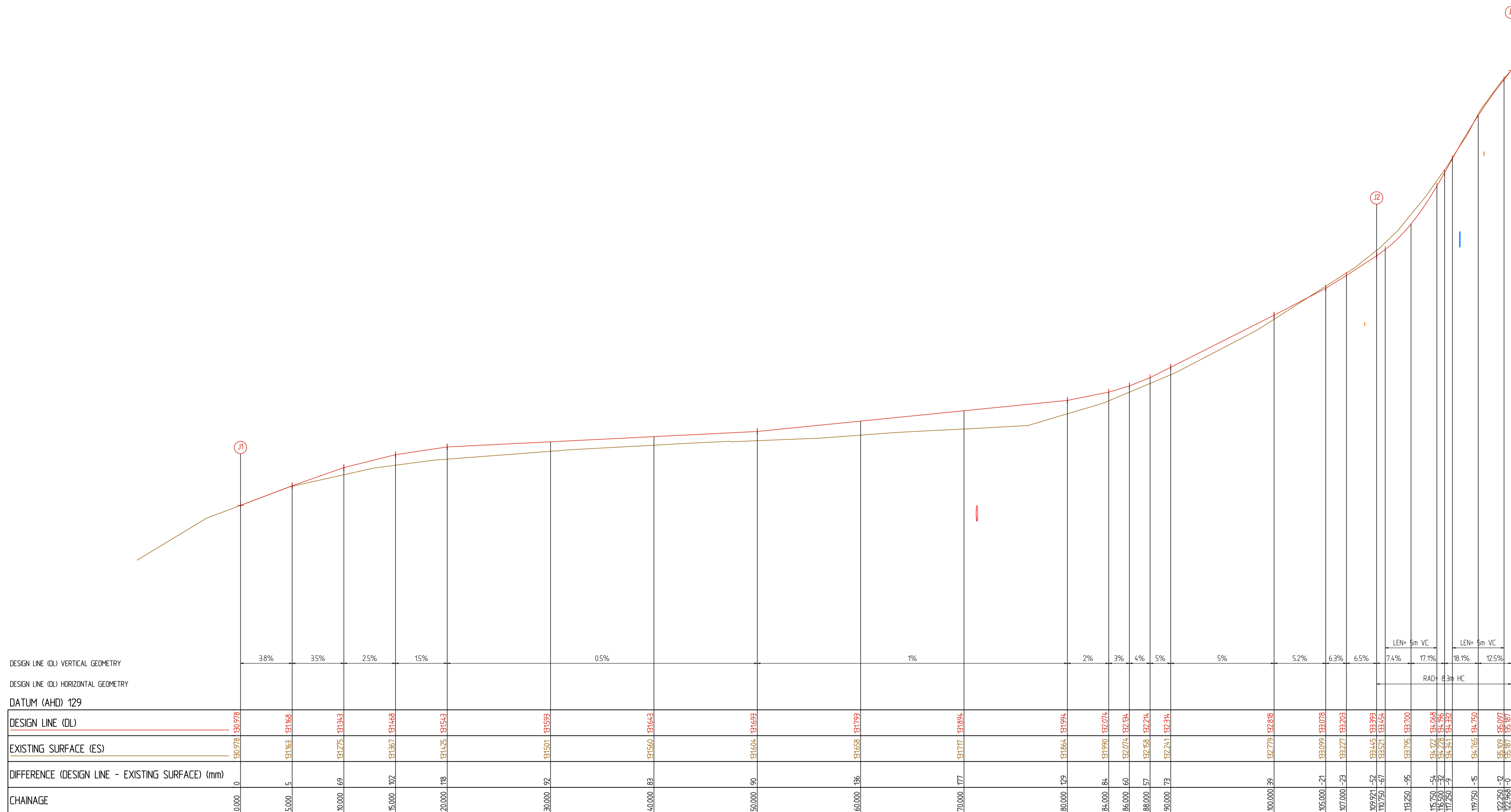


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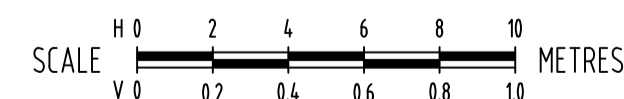
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CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.		 OR AS SHOWN	AHD		MAROONDAH CITY COUNCIL	KC / MC	EW / KC
F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-01-2025 28-08-2025 03-02-2025 18-10-2024 21-08-2024 28-06-2024	KC MC RY KC KC KC KC	KC KC KC KC KC KC	MGA 20 ZONE 55 SURVEY DATE DEC 2023 AERIAL IMAGE DATE 10-11-2023	PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134 DRAWING TITLE LONGITUDINAL SECTION - LIP OF KERB 'I' (LOK I)	SCALE H1:200/L1:20@A1 SITE ID & JOB No. S67850-290035 DRAWING No. C026	No. OF SHEETS 43 DATE STARTED 13-05-2024 REV. F	



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LONGITUDINAL SECTION - LIP OF KERB 'J' (LOK J)

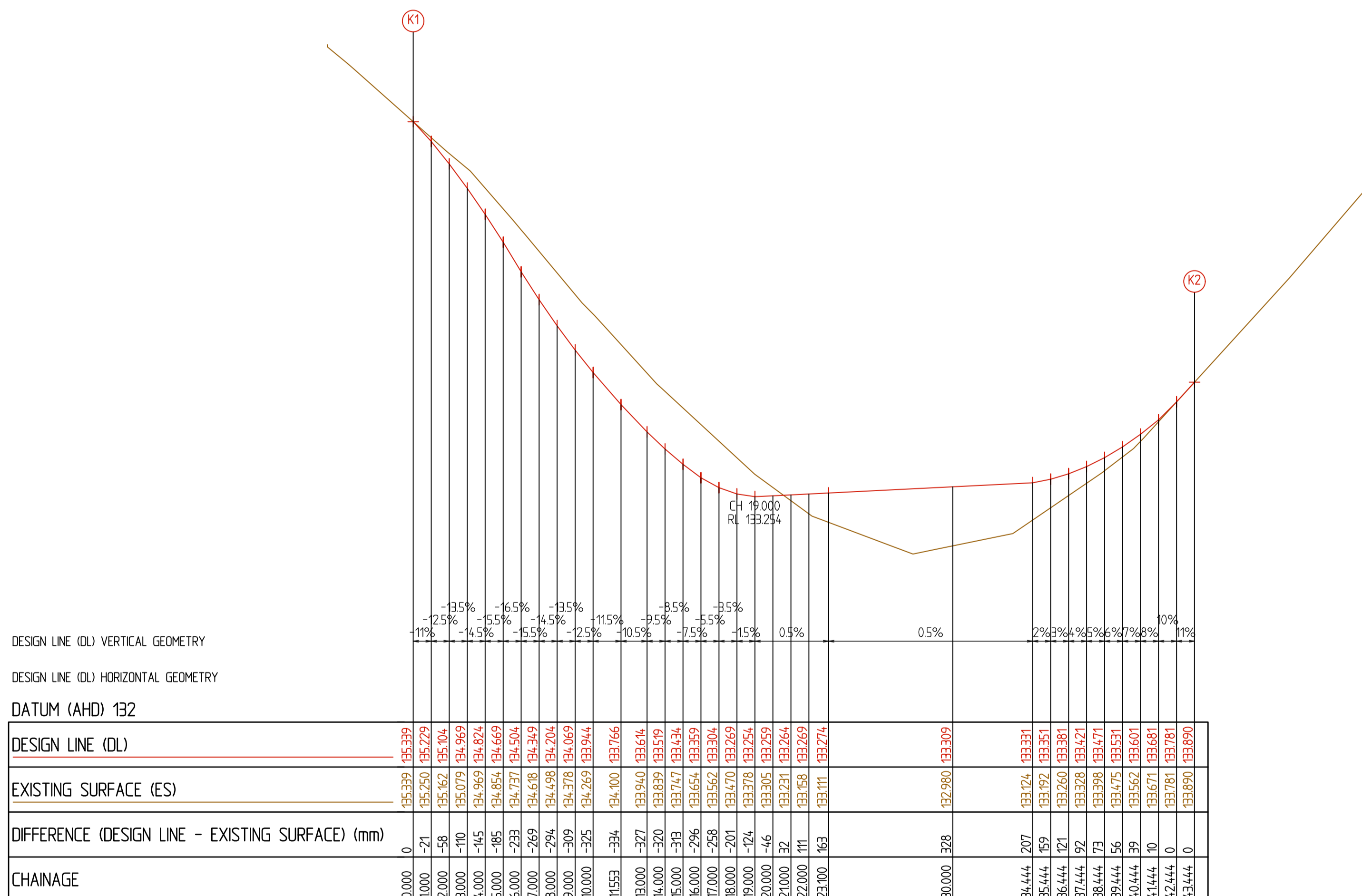


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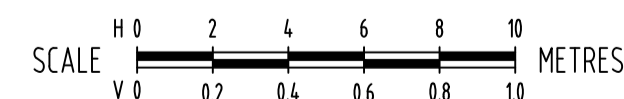
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REV	DESCRIPTION	DATE	INIT	APP	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.		



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LONGITUDINAL SECTION - LIP OF KERB 'K' (LOK K)



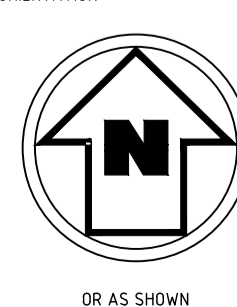
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REV	DESCRIPTION	DATE	INIT	APP
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC

CLIENT



ORIENTATION



HEIGHT DATUM

AHD
COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
DEC 2023
AERIAL IMAGE DATE
10-11-2023

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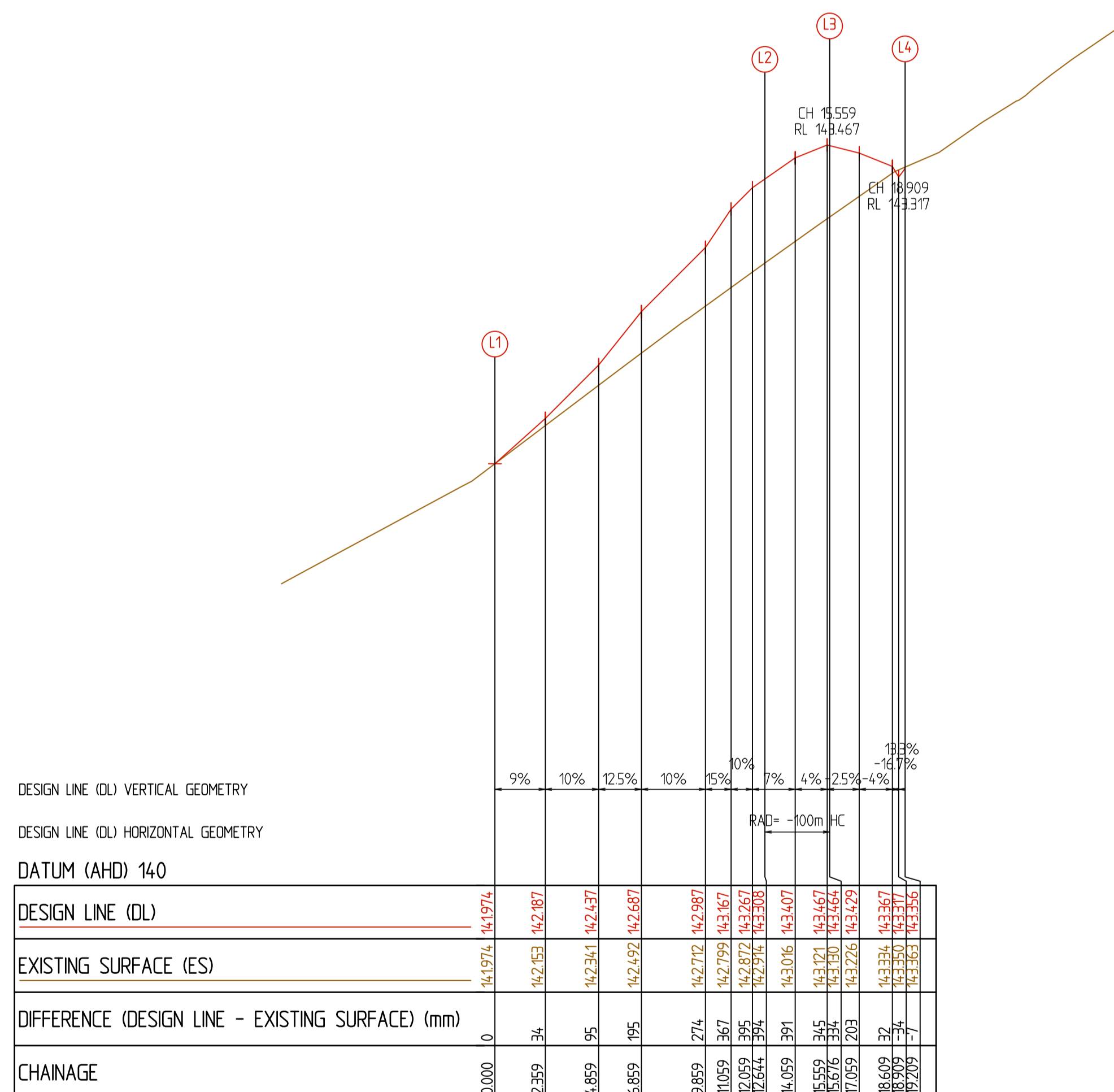
CLIENT

MAROONDAH CITY COUNCIL
PROJECT TITLE
STORMWATER MANAGEMENT IMPROVEMENT WORKS
SITE ADDRESS
SAN REMO ROAD CATCHMENT
RINGWOOD NORTH, VIC, 3134
DRAWING TITLE
LONGITUDINAL SECTION - LIP OF KERB 'K' (LOK K)

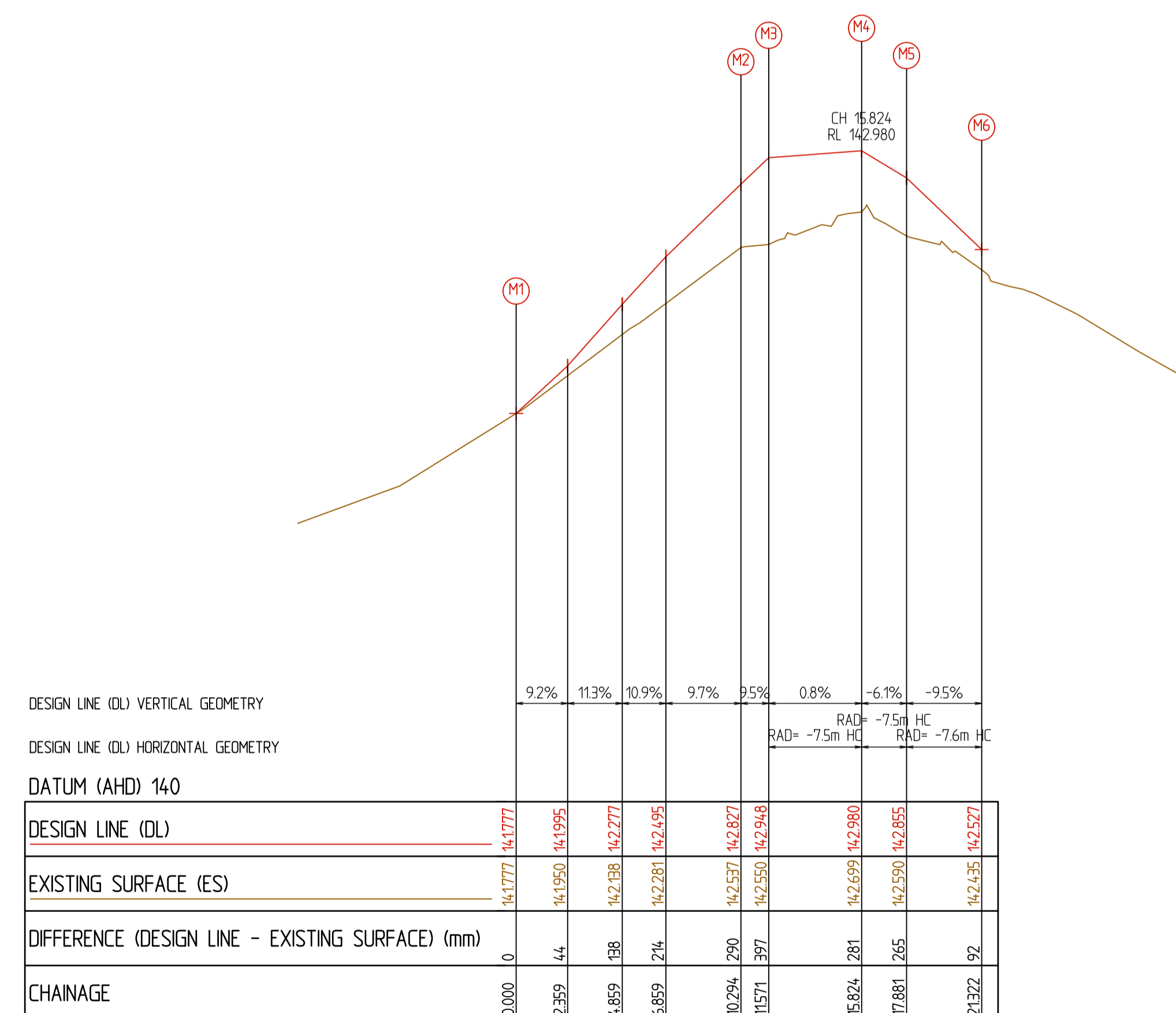
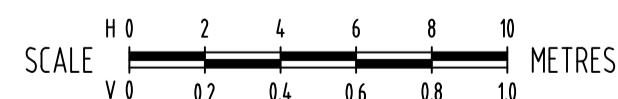
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KC / MC	EW / KC
NO. OF SHEETS	43
CHECKED	AH
SCALE	DATE STARTED
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SITE ID & JOB No.	REV.
S67850-290035	
DRAWING No.	
C028	F



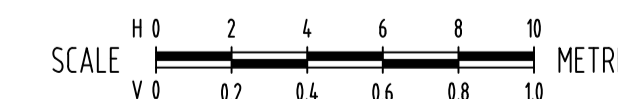
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LONGITUDINAL SECTION - CENTRELINE 'L' (CL L)



LONGITUDINAL SECTION - LIP OF KERB 'M' (LOK M)

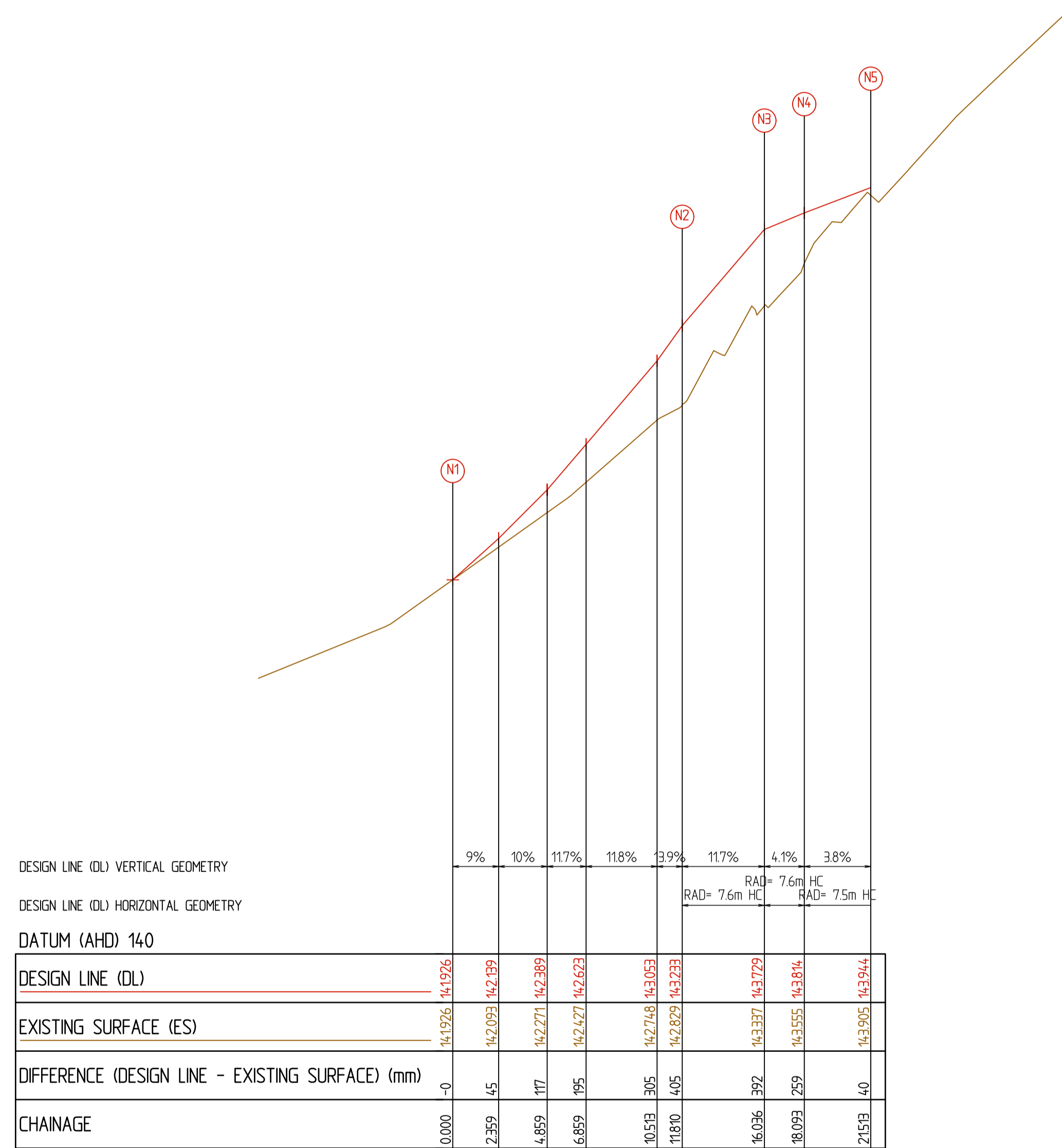


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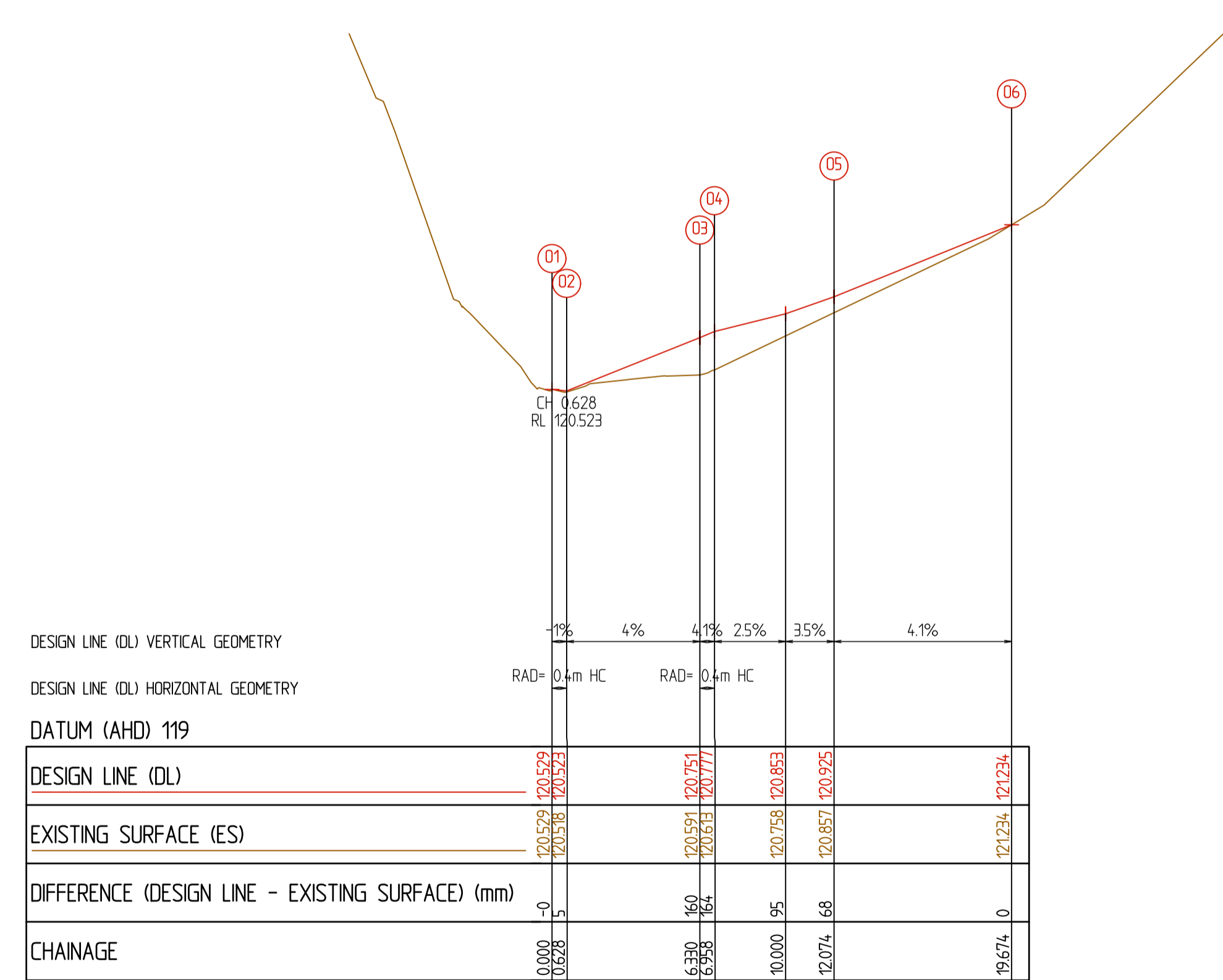
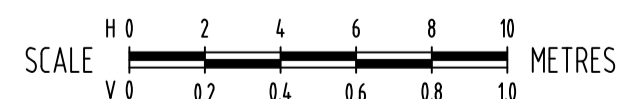
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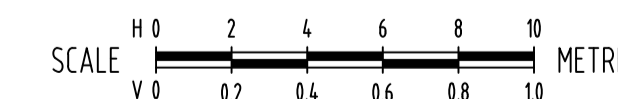
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LONGITUDINAL SECTION - LIP OF KERB 'N' (LOK N)



LONGITUDINAL SECTION - LIP OF KERB 'O' (LOK O)



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CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.		Maroondah City Council	OR AS SHOWN	AHD		MAROONDAH CITY COUNCIL	KC / MC	EW / KC
ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.				COORDINATE DATUM	PROJECT TITLE	CHECKED	No. OF SHEETS	
ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.				MGA 20 ZONE 55	STORMWATER MANAGEMENT IMPROVEMENT WORKS	AH	43	
REV	DESCRIPTION	DATE	INIT	APP	SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134 DRAWING TITLE LONGITUDINAL SECTION - LIP OF KERB 'N' AND 'O' (LOK N & LOK O)	SCALE	DATE STARTED	
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC		H1:200/L1:20@A1	13-05-2024	
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC		SITE ID & JOB No.	REV.	
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC		S67850-290035		
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC		DRAWING No.		
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC				
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC				

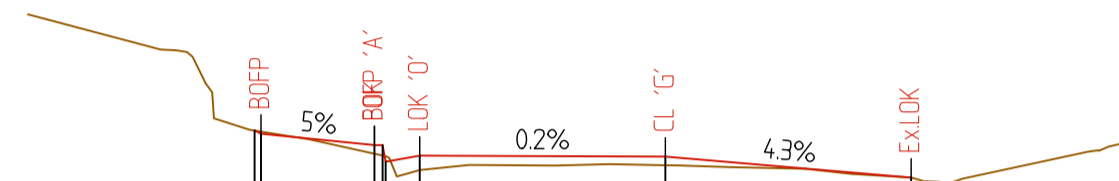
CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



WARNING
BEWARE UNDERGROUND SERVICES
THE LOCATIONS OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

CENTRELINE (CL A) DATA
X = 343899.202
Y = 5814875.988
Z = 120.923

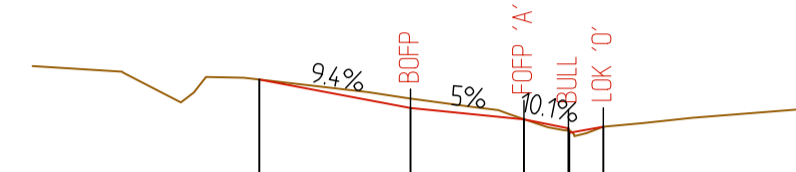


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 121019	-14	121019	-1584
120994	57	120994	-1500
120972	69	120972	0.000
120924	-36	120924	0.110
120877	57	120877	0.150
120853	95	120853	0.600
120817	57	120817	3.850
120790	0	120790	7.000
120708	0	120708	

CH 15.032

CENTRELINE (CL A) DATA
X = 343917.016
Y = 5814874.338
Z = 122.019

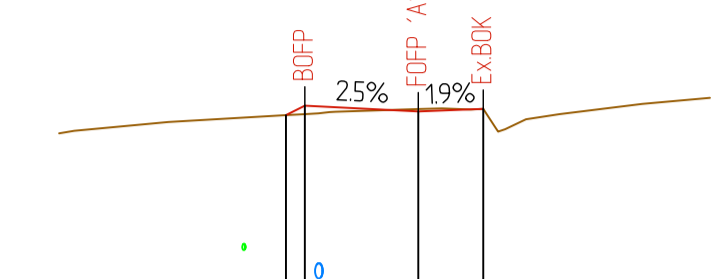


DATUM (AHD) 121.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 122283	-63	122283	-3500
122094	-1	122094	-1500
122019	15	122019	0.000
121966	-14	121966	0.588
121913	0	121913	0.988
121870	0	121870	1.079
121770	0	121770	1.079
121708	0	121708	

CH 33.000

CENTRELINE (CL A) DATA
X = 343943.861
Y = 5814871.61
Z = 124.767

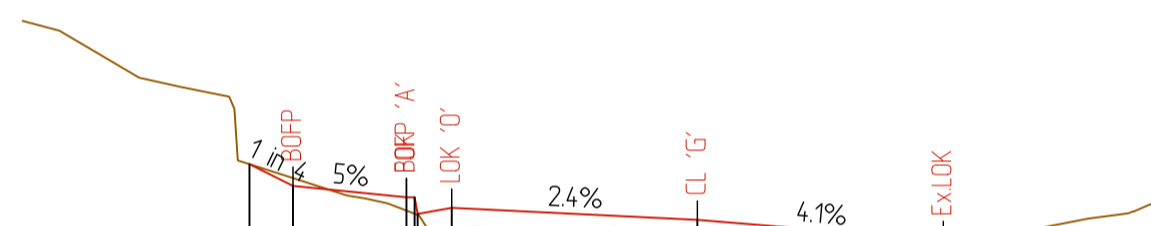


DATUM (AHD) 123.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 124714	55	124714	-1751
124604	-15	124604	-1500
124767	0	124767	0.000
124783	0.860	124783	0.860
124783	0	124783	

CH 60.000

CENTRELINE (CL A) DATA
X = 343897.184
Y = 5814876.226
Z = 120.872

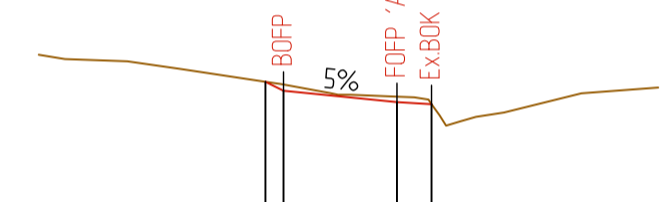


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 121091	-52	121091	-2076
120999	87	120999	-1500
120872	109	120872	0.000
120762	6	120762	0.110
120602	141	120602	0.500
120661	60	120661	0.600
120662	0	120662	3.850
120588	0	120588	7.102
120588	0	120588	

CH 13.000

CENTRELINE (CL A) DATA
X = 343909.07
Y = 5814875.268
Z = 121.344

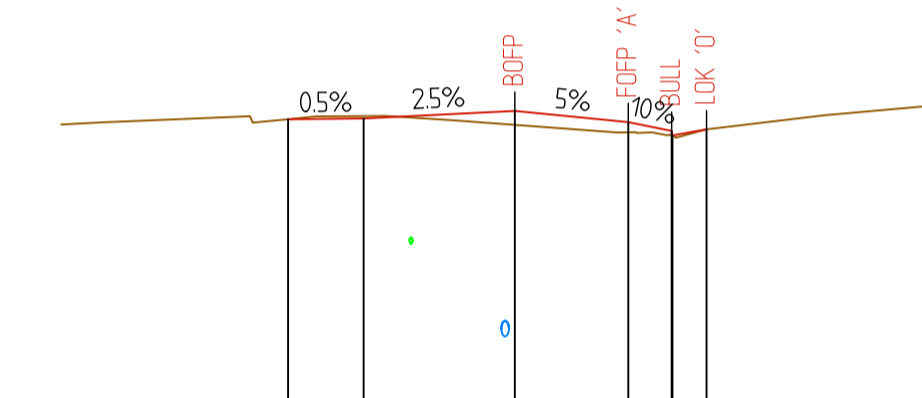


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 121478	-41	121478	-1710
121419	-36	121419	-1500
121330	0	121330	0.000
121330	0.457	121330	0.457
121330	0	121330	

CH 25.000

CENTRELINE (CL A) DATA
X = 343931.914
Y = 5814872.594
Z = 123.508

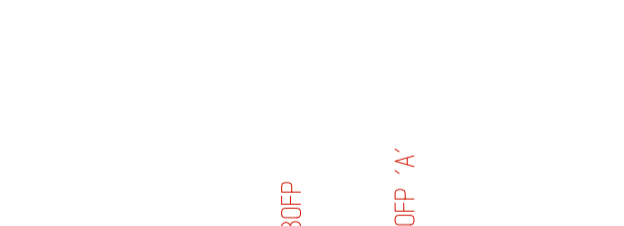


DATUM (AHD) 121.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 123528	-16	123528	-4500
123533	93	123533	-3500
123583	67	123583	-1500
123508	28	123508	0.000
123450	0	123450	0.574
123420	0	123420	0.988
123468	0	123468	1.035
123468	0	123468	

CH 48.000

CENTRELINE (CL A) DATA
X = 343891.653
Y = 5814868.528
Z = 120.437

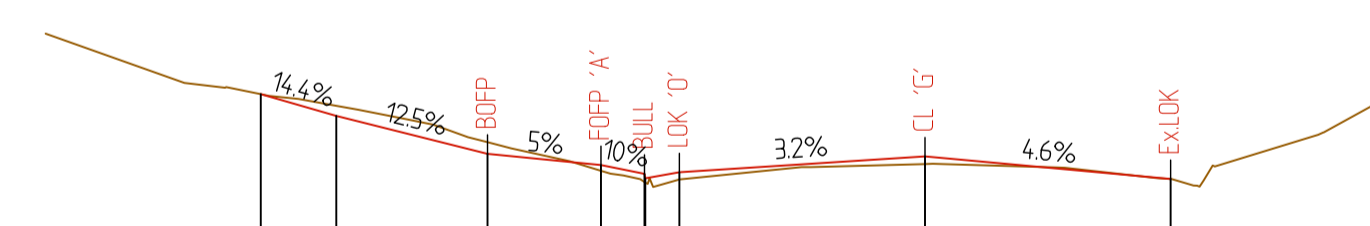


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 120327	143	120327	-2092
120475	-0	120475	-1500
120437	0	120437	0.000
120437	0	120437	

CH 2.174

CENTRELINE (CL A) DATA
X = 343904.104
Y = 5814875.849
Z = 121.087

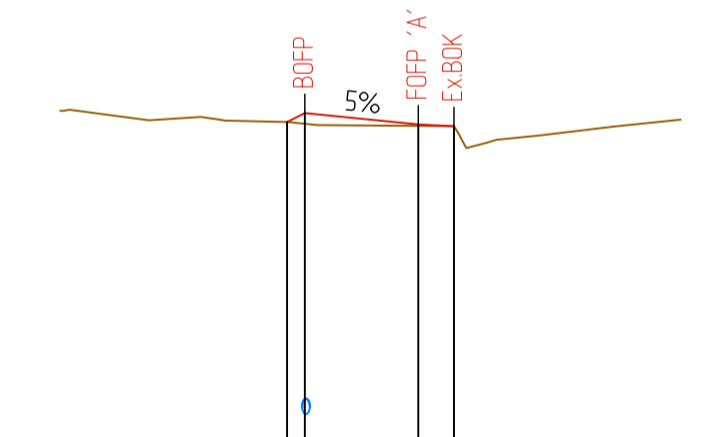


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 121556	-67	121556	-4500
121421	-76	121421	-3500
121422	38	121422	-1500
121087	54	121087	0.000
121034	47	121034	0.575
121049	40	121049	0.588
121049	50	121049	1.035
121044	0	121044	4.286
121094	0	121094	7.534
121094	0	121094	

CH 20.000

CENTRELINE (CL A) DATA
X = 343923.969
Y = 5814873.524
Z = 122.751

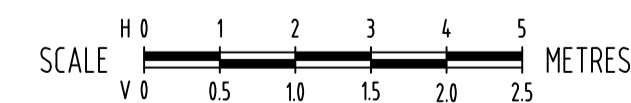


DATUM (AHD) 120.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 122767	70	122767	-1736
122826	9	122826	-1500
122751	0	122751	0.000
122739	-0	122739	0.471
122739	0	122739	

CH 40.000

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOPP A)



100% DETAILED DESIGN
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<p>100% DETAILED DESIGN - ISSUED FOR REVIEW</p>	<p>28-08-2025</p>	<p>KC KC</p>	<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p>	<p>28-08-2025</p>	<p>MC KC</p>	<p>80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>03-02-2025</p>	<p>RY KC</p>	<p>70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>18-10-2024</p>	<p>KC KC</p>	<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>21-08-2024</p>	<p>KC KC</p>	<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>DESCRIPTION</p>	<p>DATE</p>	<p>INIT</p>	<p>APP</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>

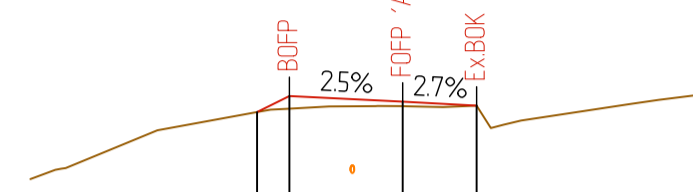
CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



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CENTRELINE (CL A) DATA
X = 343992.841
Y = 5814866.09
Z = 128.502

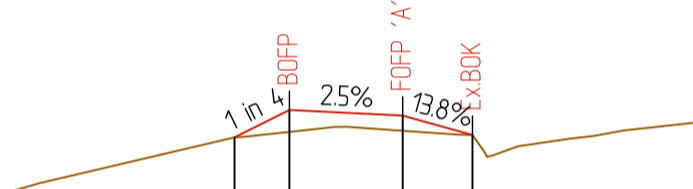


DATUM (AHD) 127.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 128.433	0 128.537	-1927 128.433	-1927
84 128.433	84 128.537	-1500 128.456	-1500
30 128.502	30 128.502	0.000 128.472	0.000
-0 128.476	-0 128.476	0.978 128.476	0.978

CH 110.000

CENTRELINE (CL A) DATA
X = 343984.025
Y = 5814867.067
Z = 127.998

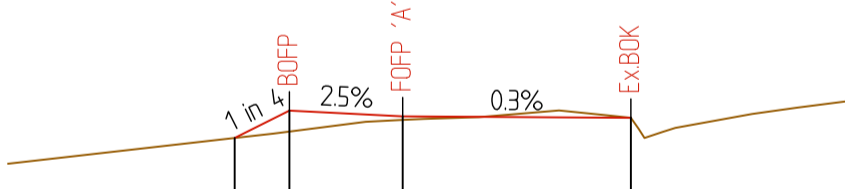


DATUM (AHD) 126.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
-0 127.854	-0 127.854	-2225 127.854	-2225
145 128.035	145 128.035	-1500 127.890	-1500
100 127.998	100 127.998	0.000 127.898	0.000
0 127.870	0 127.870	0.923 127.870	0.923

CH 101.130

CENTRELINE (CL A) DATA
X = 343953.802
Y = 5814872.632
Z = 125.7

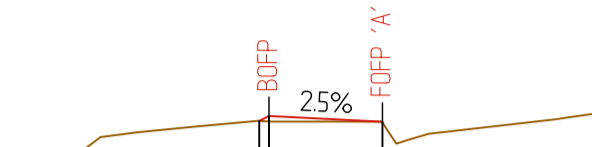


DATUM (AHD) 124.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 125.557	0 125.557	-2223 125.557	-2223
198 125.739	198 125.739	-1500 125.600	-1500
24 125.700	24 125.700	0.000 125.676	0.000
-0 125.690	-0 125.690	3019 125.690	3019

CH 70.000

CENTRELINE (CL A) DATA
X = 344012.52
Y = 5814862.831
Z = 129.756

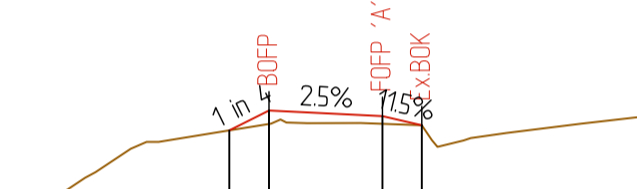


DATUM (AHD) 128.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 129.762	0 129.762	-1629 129.762	-1629
36 129.794	36 129.794	-1500 129.758	-1500
4 129.756	4 129.756	0.000 129.752	0.000

CH 130.000

CENTRELINE (CL A) DATA
X = 344007.816
Y = 5814863.911
Z = 129.497

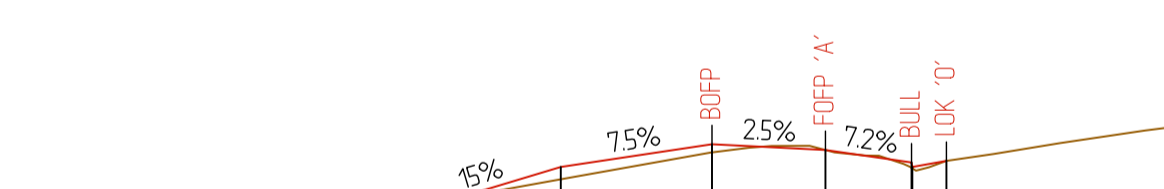


DATUM (AHD) 127.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
-0 129.403	-0 129.403	-2025 129.403	-2025
89 129.534	89 129.534	-1500 129.446	-1500
50 129.497	50 129.497	0.000 129.447	0.000
-0 129.437	-0 129.437	0.520 129.437	0.520

CH 125.164

CENTRELINE (CL A) DATA
X = 344000.792
Y = 5814865.209
Z = 128.987

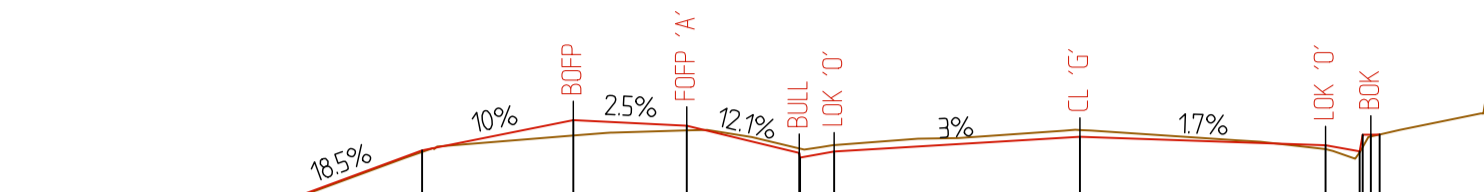


DATUM (AHD) 127.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 128.283	0 128.283	-7500 128.283	-7500
126 128.574	126 128.574	-5500 128.448	-5500
81 128.674	81 128.674	-3500 128.793	-3500
53 129.024	53 129.024	-1500 128.971	-1500
0 128.987	0 128.987	0.000 128.987	0.000
36 128.904	36 128.904	1199 128.869	1199
9 128.874	9 128.874	1150 128.865	1150
-0 128.914	-0 128.914	1600 128.914	1600

CH 118.000

CENTRELINE (CL A) DATA
X = 344041.365
Y = 5814860.84
Z = 131.355

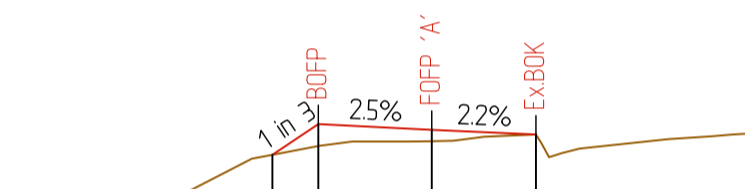


DATUM (AHD) 129.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 130.823	0 130.823	-5500 130.823	-5500
10 131.192	10 131.192	-3500 131.182	-3500
102 131.392	102 131.392	-1500 131.290	-1500
31 131.355	31 131.355	0.000 131.324	0.000
-30 131.075	-30 131.075	1489 131.205	1489
-59 131.054	-59 131.054	1500 131.204	1500
-42 131.085	-42 131.085	1950 131.228	1950
-45 131.282	-45 131.282	5200 131.327	5200
26 131.277	26 131.277	8450 131.200	8450
82 131.297	82 131.297	8900 131.179	8900
12 131.297	12 131.297	8940 131.214	8940
0 131.298	0 131.298	9050 131.285	9050
		9165 131.288	9165

CH 159.000

CENTRELINE (CL A) DATA
X = 344023.138
Y = 5814862.974
Z = 130.478

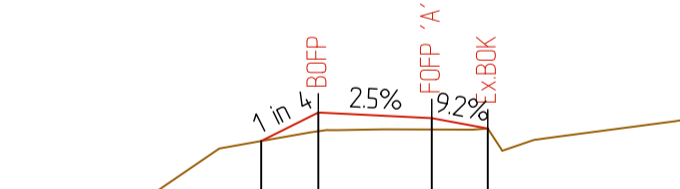


DATUM (AHD) 129.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
-0 130.313	-0 130.313	-2108 130.313	-2108
145 130.516	145 130.516	-1500 130.371	-1500
75 130.478	75 130.478	0.000 130.403	0.000
0 130.447	0 130.447	1379 130.447	1379

CH 140.648

CENTRELINE (CL A) DATA
X = 344017.987
Y = 5814862.909
Z = 130.197

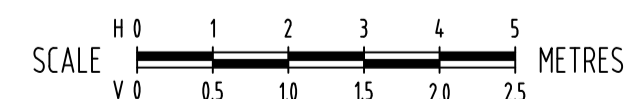


DATUM (AHD) 128.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 130.044	0 130.044	-2255 130.046	-2255
124 130.235	124 130.235	-1500 130.111	-1500
75 130.197	75 130.197	0.000 130.122	0.000
0 130.129	0 130.129	0741 130.129	0741

CH 135.483

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOPP A)



100% DETAILED DESIGN
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<p>100% DETAILED DESIGN - ISSUED FOR REVIEW</p>	<p>DESIGNED KC / MC</p>	<p>DATE 12-01-2025</p>	<p>COORDINATE DATUM MGA 20 ZONE 55</p>	<p>PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS</p>	<p>DRAWN EW / KC</p>
<p>80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>CHECKED AH</p>	<p>DATE 28-08-2025</p>	<p>SURVEY DATE DEC 2023</p>	<p>SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134</p>	<p>NO. OF SHEETS 43</p>
<p>70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>SCALE H1-100/V1-50@A1</p>	<p>DATE STARTED 13-05-2024</p>	<p>AERIAL IMAGE DATE 10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>REV. S67850-290035</p>
<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>DRAWING NO. C032</p>	<p>DATE 21-08-2024</p>	<p>DESCRIPTION</p>	<p>DESCRIPTION</p>	<p>F</p>
<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>DATE 28-06-2024</p>	<p>INIT KC</p>	<p>APP KC</p>	<p>APP KC</p>	<p>APP KC</p>

CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPF	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



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CENTRELINE (CL A) DATA
X = 344069.175
Y = 5814857.585
Z = 131712

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131653	0	131653	-3500
47 131750	47	131703	-1500
27 131712	27	131686	0000
-29 131530	-29	131559	1489
-60 131500	-60	131560	1500
-1 131540	-1	131541	1950
-20 131637	-20	131657	5200
85 131670	85	131611	8450
77 131671	77	131678	8900
27 131685	27	131630	8940
0 131689	0	131660	9050
		131689	9240

CH 187.000

CENTRELINE (CL A) DATA
X = 344062.223
Y = 5814858.399
Z = 131642

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
-0 131592	-0	131592	-1762
83 131680	83	131597	-1500
21 131642	21	131622	0000
-79 131540	-79	131619	1350
-20 131540	-20	131572	1460
-41 131470	-41	131508	1500
-41 131567	-41	131608	5200
88 131658	88	131684	8450
20 131620	20	131627	8900
54 131652	54	131556	8940
41 131652	41	131611	9050
0 131654	0	131654	9303

CH 180.000

CENTRELINE (CL A) DATA
X = 344055.27
Y = 5814859.213
Z = 131572

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131614	0	131614	-1536
16 131572	16	131556	0000
-03 131470	-03	131573	1350
-27 131470	-27	131556	1460
-48 131400	-48	131468	1500
-52 131497	-52	131550	5200
16 131517	16	131430	8450
80 131571	80	131427	8900
0 131776	0	131776	11311

CH 173.000

CENTRELINE (CL A) DATA
X = 344082.087
Y = 5814856.074
Z = 131842

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131900	0	131900	-1581
-24 131880	-24	131904	-1500
75 131842	75	131768	0000
40 131740	40	131700	1350
29 131650	29	131657	1460
28 131670	28	131634	1500
72 131670	72	131598	1950
66 131768	66	131702	5200
87 131680	87	131594	8450
29 131640	29	131618	8900
57 131754	57	131655	8940
50 131754	50	131702	9050
0 131761	0	131761	9924

CH 200.000

CENTRELINE (CL A) DATA
X = 344080.101
Y = 5814856.306
Z = 131822

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131874	0	131874	-1555
-14 131860	-14	131874	-1500
52 131822	52	131770	0000
23 131720	23	131697	1350
19 131650	19	131659	1460
53 131650	53	131597	1500
56 131748	56	131691	5200
82 131672	82	131590	8450
46 131632	46	131586	8900
75 131662	75	131587	8911
-17 131862	-17	131879	10911
0 132296	0	132296	12911

CH 198.000

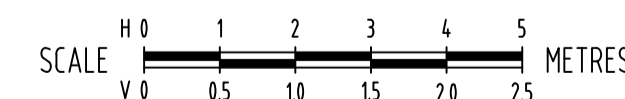
CENTRELINE (CL A) DATA
X = 344072.155
Y = 5814857.236
Z = 131742

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131799	0	131799	-1576
-20 131780	-20	131800	-1500
30 131742	30	131718	0000
-19 131640	-19	131659	1350
-27 131650	-27	131572	1460
16 131570	16	131554	1500
1 131667	1	131667	5200
84 131632	84	131548	8450
16 131592	16	131576	8900
95 131702	95	131603	8940
33 131702	33	131669	9050
0 131704	0	131704	9281

CH 190.000

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOFP A)



100% DETAILED DESIGN
NOT FOR CONSTRUCTION

<p>THIS DRAWING IS COPYRIGHT TO FMG ENGINEERING. NO PART OF THIS DRAWING, INCLUDING THE WHOLE OR PART, SHALL BE USED FOR ANY PURPOSE OR SITE OTHER THAN WHICH IT WAS PREPARED, NOR BY ANY THIRD PARTY, WITHOUT THE PRIOR WRITTEN CONSENT OF FMG ENGINEERING.</p>		<p>CLIENT MAROONDAH CITY COUNCIL</p>	<p>ORIENTATION AS SHOWN</p>	<p>HEIGHT DATUM AHD</p>	<p>COORDINATE DATUM MGA 20 ZONE 55</p>	<p>SURVEY DATE DEC 2023</p>	<p>AERIAL IMAGE DATE 10-11-2023</p>	<p>CLIENT MAROONDAH CITY COUNCIL</p>	<p>PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS</p>	<p>DESIGNED KC / MC</p>	<p>DRAWN EW / KC</p>
<p>F 100% DETAILED DESIGN - ISSUED FOR REVIEW</p>	<p>12-01-2025</p>	<p>KC KC</p>	<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p>	<p>ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122 fmgeengineering.com.au P 1300 975 878 ABN 58 083 071 185</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>DATE STARTED 13-05-2024</p>	<p>SCALE H1-100/V1-50@A1</p>	<p>SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>	
<p>E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>28-08-2025</p>	<p>MC KC</p>	<p>ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.</p>	<p>ADLAIDE MELBOURNE SYDNEY BRISBANE</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		
<p>D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>03-02-2025</p>	<p>RY KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122 fmgeengineering.com.au P 1300 975 878 ABN 58 083 071 185</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		
<p>C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>18-10-2024</p>	<p>KC KC</p>	<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p>	<p>ADLAIDE MELBOURNE SYDNEY BRISBANE</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		
<p>B FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>21-08-2024</p>	<p>KC KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>ADLAIDE MELBOURNE SYDNEY BRISBANE</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		
<p>A FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>ADLAIDE MELBOURNE SYDNEY BRISBANE</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		
<p>REV DESCRIPTION</p>	<p>DATE</p>	<p>INIT APP</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>ADLAIDE MELBOURNE SYDNEY BRISBANE</p>	<p>50 YEARS</p>	<p>NO. OF SHEETS 43</p>	<p>DATE STARTED 13-05-2024</p>	<p>DRAWING NO. C033</p>	<p>REV. F</p>		

CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



WARNING
BEWARE UNDERGROUND SERVICES
THE LOCATIONS OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

CENTRELINE (CL A) DATA
X = 344092.019
Y = 5814854.911
Z = 131943

DATUM (AHD) 129.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131863	0	131863	-1968
121 131980	121	131859	-1500
137 131943	137	131806	0.000
184 131840	84	131764	1350
222 131840	122	131778	1460
251 131730	151	131679	1500
279 131710	179	131651	1950
330 131770	330	131752	5200
353 131730	53	131641	8450
429 131840	429	131778	8900
476 131840	476	131764	8940
511 131840	511	131683	9050
537 131853	-0	131683	10377

CH 210.000

CENTRELINE (CL A) DATA
X = 344085.067
Y = 5814855.725
Z = 131873

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131795	0	131795	-3500
99 131910	99	131811	-1500
83 131873	83	131790	0.000
84 131690	84	131606	1489
88 131660	88	131602	1500
94 131700	94	131606	1590
80 131798	80	131718	5200
93 131700	93	131607	8450
98 131770	98	131630	8500
90 131770	90	131672	8940
49 131770	49	131721	9050
-0 131775	-0	131775	9580

CH 203.000

CENTRELINE (CL A) DATA
X = 344103.954
Y = 5814853.948
Z = 132063

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131746	0	131746	-2562
322 132100	322	131778	-1500
258 132063	258	131804	0.000
277 131964	277	131688	1834
299 131964	299	131665	1947
298 131880	298	131683	1982
279 131880	279	131683	2482
463 132000	463	131839	5798
185 131910	185	131726	9444
156 131873	156	131718	9608
184 131903	184	131718	9619
149 132100	149	131958	11678
0 1322343	0	1322343	13737

CH 222.000

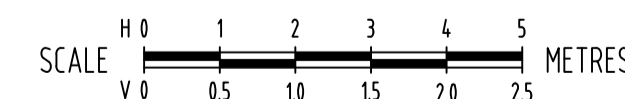
CENTRELINE (CL A) DATA
X = 344099.965
Y = 5814853.981
Z = 132023

DATUM (AHD) 127.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0 131444	0	131448	-5500
200 131660	200	131660	-3500
278 132063	278	131782	-1500
267 132023	267	131755	0.000
185 131840	185	131705	1489
113 131810	113	131677	1500
189 131850	189	131662	1590
159 131946	159	131788	5200
165 131800	165	131695	8450
111 131640	111	131606	8500
50 132040	50	131990	10311
0 1322440	0	1322440	12311

CH 218.000

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOFP A)



100% DETAILED DESIGN
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<p>F 100% DETAILED DESIGN - ISSUED FOR REVIEW</p>	<p>12-01-2025</p>	<p>KC</p>	<p>KC</p>	<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>
<p>E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>28-08-2025</p>	<p>MC</p>	<p>KC</p>	<p>ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>
<p>D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>03-02-2025</p>	<p>RY</p>	<p>KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>
<p>C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>18-10-2024</p>	<p>KC</p>	<p>KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>
<p>B FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>21-08-2024</p>	<p>KC</p>	<p>KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>
<p>A FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>28-06-2024</p>	<p>KC</p>	<p>KC</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>OR AS SHOWN</p>	<p>DEC 2023</p>	<p>10-11-2023</p>	<p>ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>13-05-2024</p>	<p>F</p>

CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
F0FP	FRONT OF FOOTPATH
B0FP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



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CENTRELINE (CL A) DATA
X = 344131736
Y = 5814852276
Z = 132.729

DATUM (AHD) 131.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	-4	132.719	-1523
0	-4	132.719	-1500
0	-59	132.729	0.000
8	8	132.748	3350
49	49	132.707	3460
23	23	132.669	3500
42	42	132.685	3590
21	21	132.783	7.200
64	64	132.688	10.450
-1	-1	132.648	10.900
76	76	132.758	10.940
4	4	132.759	11.050
0	0	132.758	11.063

CH 250.000

CENTRELINE (CL A) DATA
X = 344151521
Y = 5814863914
Z = 133.57

DATUM (AHD) 131.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	0	133.134	-2.920
468	468	133.140	-1500
441	441	133.129	0.000
402	402	133.126	1.940
466	466	133.128	2.050
385	385	133.133	2.090
432	432	133.136	2.340
204	204	133.119	5.790
288	288	133.372	9.040
241	241	133.263	9.490
241	241	133.340	9.540
230	230	133.372	9.640
0	0	133.415	11.995

CH 280.000

CENTRELINE (CL A) DATA
X = 344125777
Y = 5814852973
Z = 132.519

DATUM (AHD) 131.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	0	132.692	-4.380
41	41	132.556	-1500
27	27	132.519	0.000
31	31	132.376	3.169
23	23	132.342	3.400
44	44	132.483	3.950
74	74	132.386	10.450
26	26	132.346	10.900
100	100	132.356	10.940
17	17	132.456	11.050
0	0	132.451	11.123

CH 244.000

CENTRELINE (CL A) DATA
X = 34415048
Y = 5814855.11
Z = 133.359

DATUM (AHD) 131.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	0	133.166	-2.191
220	220	133.396	-1500
174	174	133.359	0.000
297	297	133.339	1.940
404	404	133.339	2.050
320	320	133.272	2.090
300	300	133.269	2.340
166	166	133.375	5.790
191	191	133.277	9.040
166	166	133.277	9.490
166	166	133.340	9.540
166	166	133.372	9.640
0	0	133.360	10.846

CH 271.134

CENTRELINE (CL A) DATA
X = 344111872
Y = 5814854.601
Z = 132.176

DATUM (AHD) 130.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	0	131.856	-2573
223	223	132.219	-1500
125	125	132.216	0.000
97	97	132.038	3350
191	191	132.038	3460
156	156	131.928	3500
187	187	131.968	3590
189	189	132.065	7.200
180	180	131.968	10.450
112	112	131.928	10.900
182	182	132.038	10.940
119	119	132.038	11.050
0	0	132.044	11.174

CH 230.000

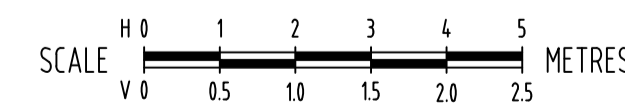
CENTRELINE (CL A) DATA
X = 344141669
Y = 5814851.119
Z = 133.116

DATUM (AHD) 132.0

DESIGN - FINISHED SURFACE (FS)	DIFFERENCE (ES - FS) (mm)	SURVEY - EXISTING SURFACE (ES)	OFFSET
0	0	133.160	-1523
-7	-7	133.161	-1500
-197	-197	133.116	0.000
-99	-99	133.251	3350
-6	-6	133.159	3460
-79	-79	133.121	3500
-77	-77	133.062	3590
-101	-101	133.259	7.200
-23	-23	133.231	10.450
-60	-60	133.191	10.900
42	42	133.304	10.940
42	42	133.304	11.050
42	42	133.402	11.154

CH 260.000

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (F0FP A)



100% DETAILED DESIGN
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<p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p>	<p>ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.</p>	<p>ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.</p>	<p>SCALE H 0 1 2 3 4 5 METRES V 0 5 10 15 20 25</p>	<p>FMG 50 YEARS ADELAIDE MELBOURNE SYDNEY BRISBANE ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122 fmgeengineering.com.au P 1300 975 878 ABN 58 083 071 185 ISO 9001 Quality Management System ISO 45001 OH&S Management System</p>	<p>PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS</p>	<p>SCALE H1:100/V1:50@A1</p>	<p>DATE STARTED 13-05-2024</p>	<p>NO. OF SHEETS 43</p>	<p>REVISION S67850-290035</p>	<p>REV. F</p>
<p>100% DETAILED DESIGN - ISSUED FOR REVIEW</p>	<p>12-01-2025</p>	<p>KC KC</p>	<p>28-08-2025</p>	<p>MC KC</p>	<p>03-02-2025</p>	<p>RY KC</p>	<p>18-10-2024</p>	<p>KC KC</p>	<p>21-08-2024</p>	<p>KC KC</p>
<p>80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>03-02-2025</p>	<p>RY KC</p>	<p>18-10-2024</p>	<p>KC KC</p>	<p>21-08-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>
<p>70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING</p>	<p>03-02-2025</p>	<p>RY KC</p>	<p>18-10-2024</p>	<p>KC KC</p>	<p>21-08-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>
<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>21-08-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>
<p>FUNCTIONAL DESIGN - ISSUED FOR REVIEW</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>	<p>28-06-2024</p>	<p>KC KC</p>

CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 230.000 A - CH 280.000 A

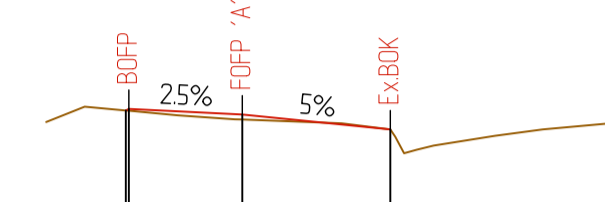
CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



WARNING
BEWARE UNDERGROUND SERVICES
THE LOCATIONS OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

CENTRELINE (CL A) DATA
X = 34445387
Y = 5814883776
Z = 135.004

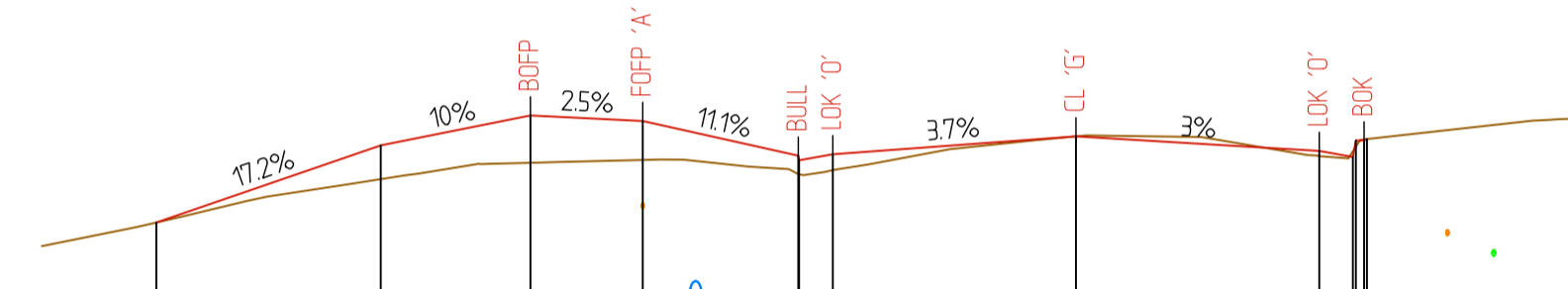


DATUM (AHD) 134.0

DESIGN - FINISHED SURFACE (FS)	135.003 135.042	135.004 134.971	134.906
DIFFERENCE (ES - FS) (mm)	0 12	33	0
SURVEY - EXISTING SURFACE (ES)	135.051 135.050	134.971	134.906
OFFSET	-1541 -1500	0.000	1958

CH 300.000

CENTRELINE (CL A) DATA
X = 344452461
Y = 5814871859
Z = 133.815

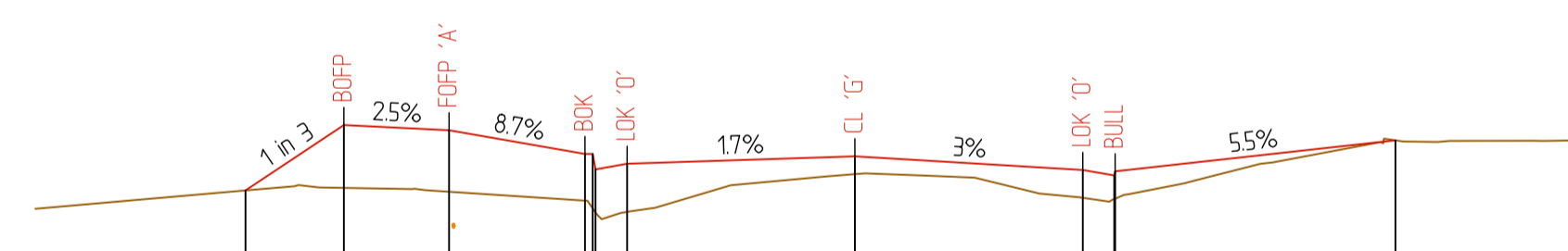


DATUM (AHD) 132.0

DESIGN - FINISHED SURFACE (FS)	133.197	133.652	133.852	133.815	133.583	133.593	133.712	133.615	133.575	133.685	133.694
DIFFERENCE (ES - FS) (mm)	0	226	316	260	122	106	-0	35	-38	-7	-0
SURVEY - EXISTING SURFACE (ES)	133.197	133.426	133.536	133.555	133.461	133.487	133.712	133.580	133.612	133.643	133.692
OFFSET	-6500	-3500	-1500	0.000	2079	2540	5790	9040	9490	9530	9640

CH 288.000

CENTRELINE (CL A) DATA
X = 344451756
Y = 58148659
Z = 133.618

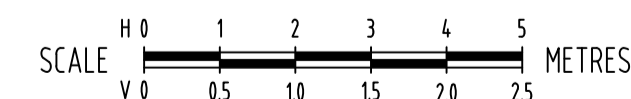


DATUM (AHD) 131.0

DESIGN - FINISHED SURFACE (FS)	133.107	133.652	133.615	133.464	133.384	133.324	133.545
DIFFERENCE (ES - FS) (mm)	0	449	439	333	388	195	0
SURVEY - EXISTING SURFACE (ES)	133.107	133.206	133.178	133.135	133.000	133.129	133.545
OFFSET	-2903	-1500	0.000	1940	2060	9501	13301

CH 282.000

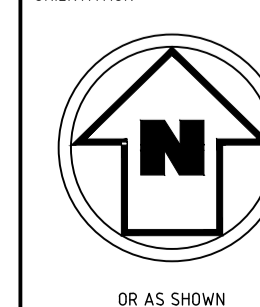
CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOPP A)



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REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.
F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC	<p>THIS DRAWING IS COPYRIGHT TO FMG ENGINEERING. NO PART OF THIS DRAWING, INCLUDING THE WHOLE OR PART, SHALL BE USED FOR ANY PURPOSE OR SITE OTHER THAN WHICH IT WAS PREPARED, NOR BY ANY THIRD PARTY, WITHOUT THE PRIOR WRITTEN CONSENT OF FMG ENGINEERING.</p> <p>CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.</p> <p>ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.</p>
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC	
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC	
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC	
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC	
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC	

CLIENT



HEIGHT DATUM

AHD

COORDINATE DATUM
MGA 20 ZONE 55

SURVEY DATE
DEC 2023

AERIAL IMAGE DATE
10-11-2023

OR AS SHOWN

FMG 50 YEARS
ADELAIDE MELBOURNE SYDNEY BRISBANE
ENGINEERING FORWARD THINKING
P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122
fmgeengineering.com.au | P 1300 975 878 | ABN 58 083 071 185
ISO 9001 Quality Management System | ISO 45001 OH&S Management System

CLIENT

MAROONDAH CITY COUNCIL

PROJECT TITLE

STORMWATER MANAGEMENT IMPROVEMENT WORKS

SITE ADDRESS

SAN REMO ROAD CATCHMENT

RINGWOOD NORTH, VIC, 3134

DRAWING TITLE

CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 282.000 A - CH 300.000 A

DESIGNED

KC / MC

DRAWN

EW / KC

CHECKED

AH

NO. OF SHEETS

43

SCALE

H1:100/V1:50@A1

DATE STARTED

13-05-2024

SITE ID & JOB NO.

S67850-290035

REV.

DRAWING NO.

C035

REV.

F

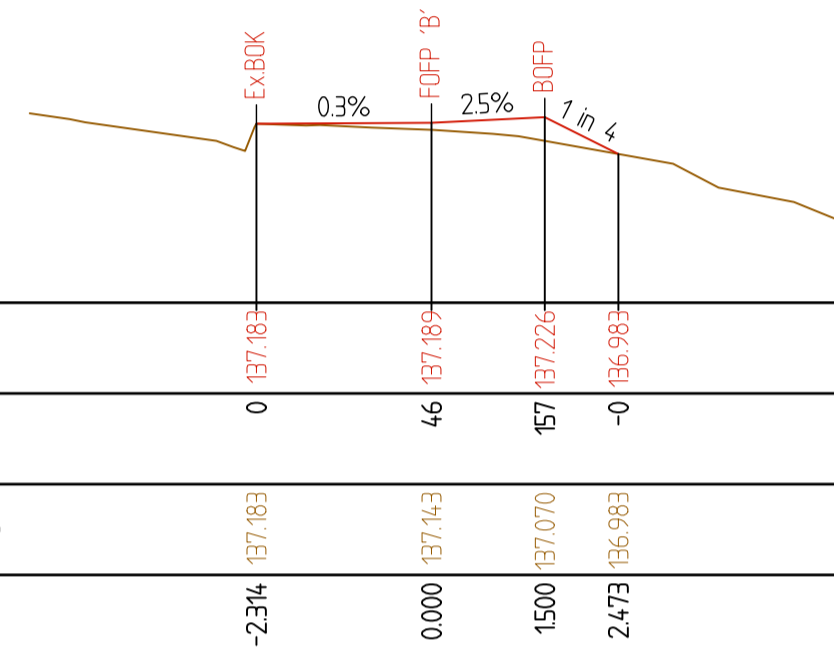
CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



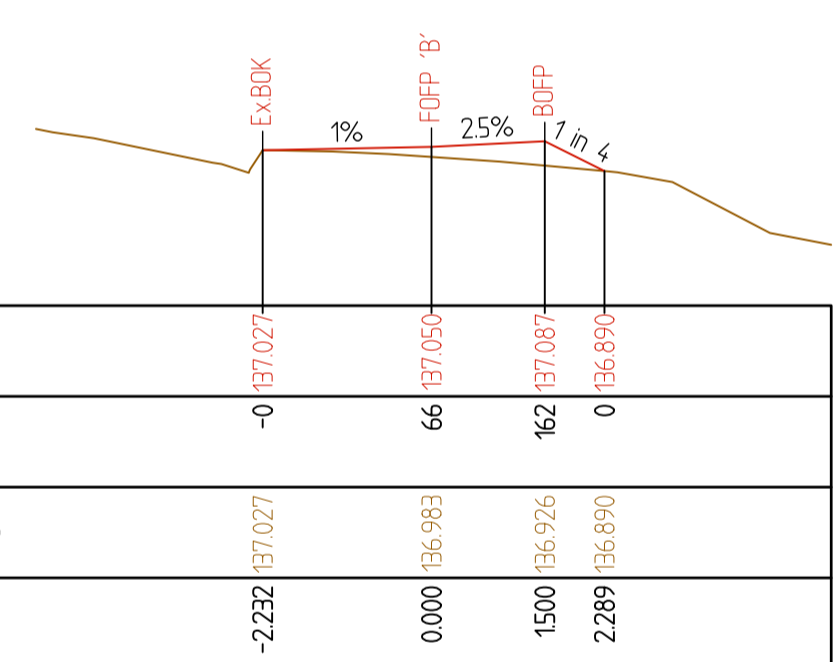
WARNING
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CENTRELINE (CL A) DATA
X = 344173618
Y = 5814894.467
Z = 137.189



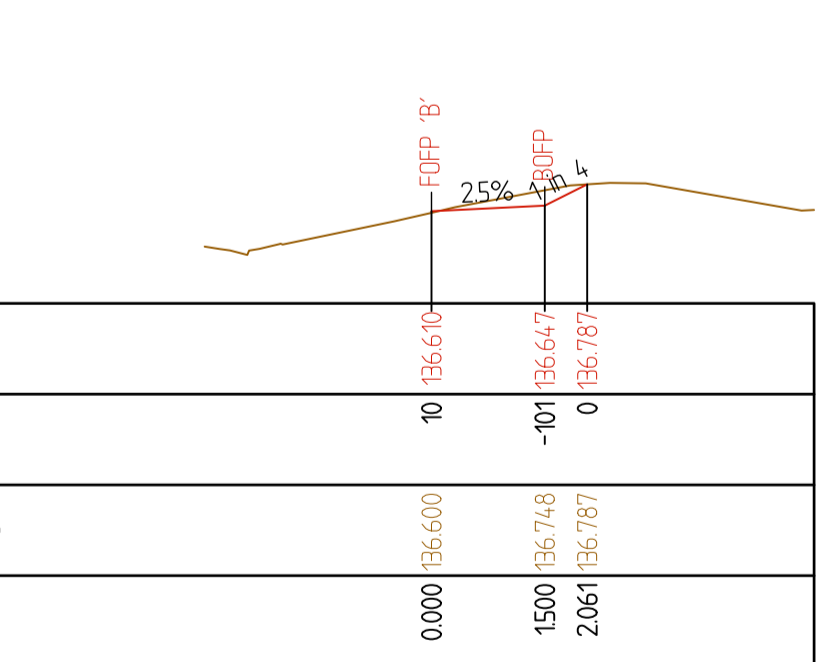
CH 10.000

CENTRELINE (CL A) DATA
X = 344171036
Y = 5814894.679
Z = 137.05



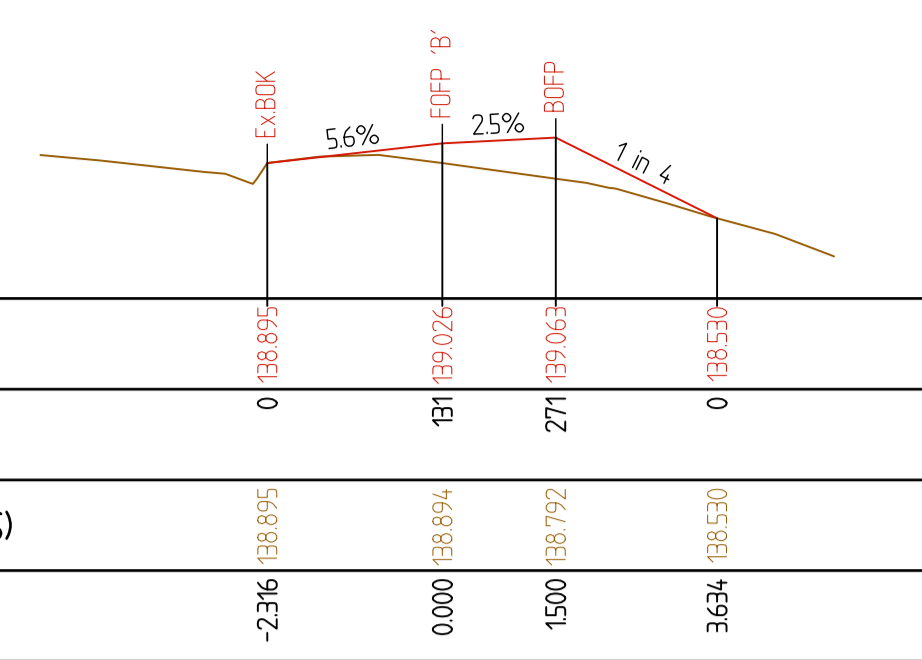
CH 7.409

CENTRELINE (CL A) DATA
X = 344167803
Y = 5814893.08
Z = 136.61



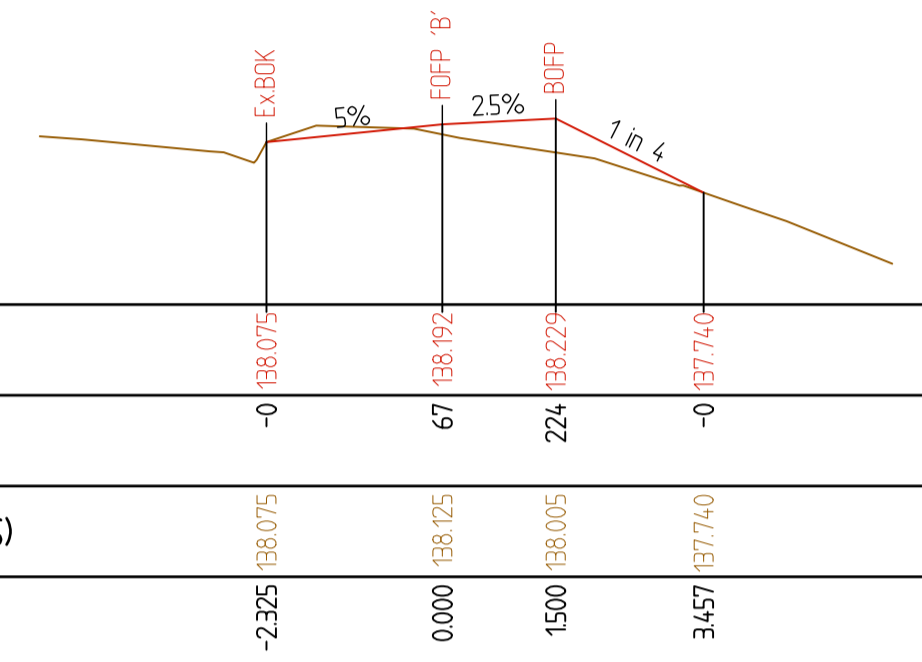
CH 3.620

CENTRELINE (CL A) DATA
X = 3442085
Y = 58148916
Z = 139.026



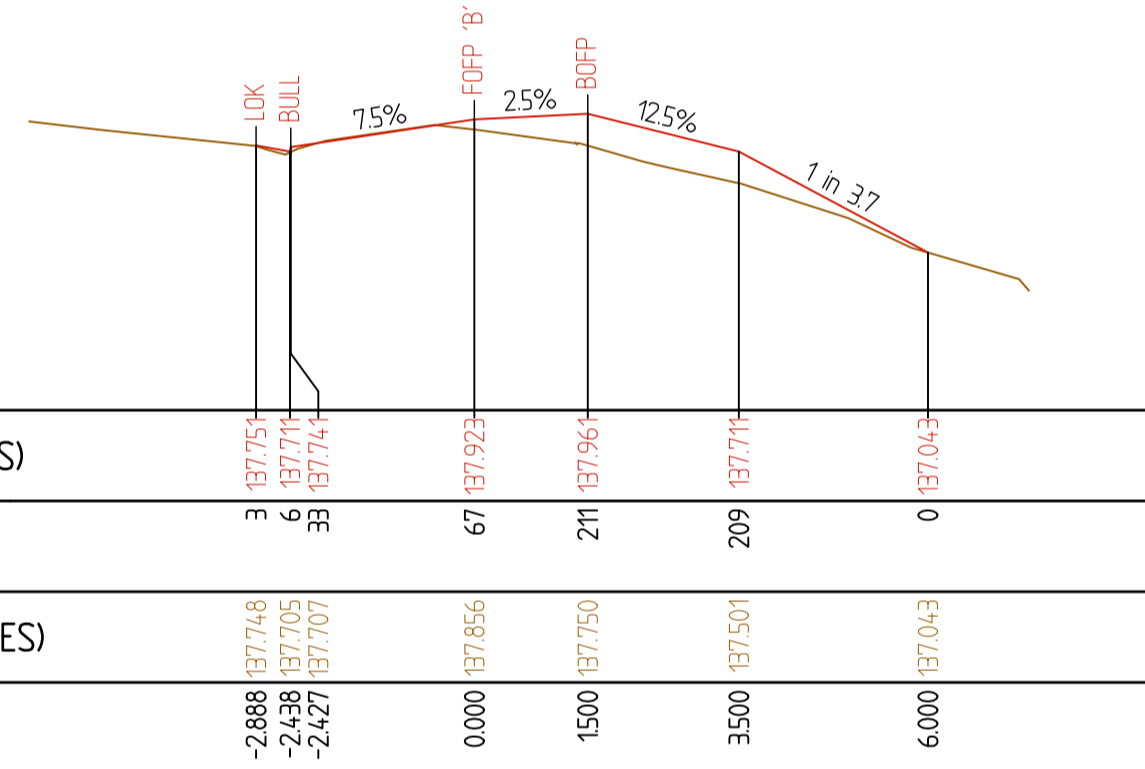
CH 45.000

CENTRELINE (CL A) DATA
X = 344193551
Y = 5814892.829
Z = 138.192



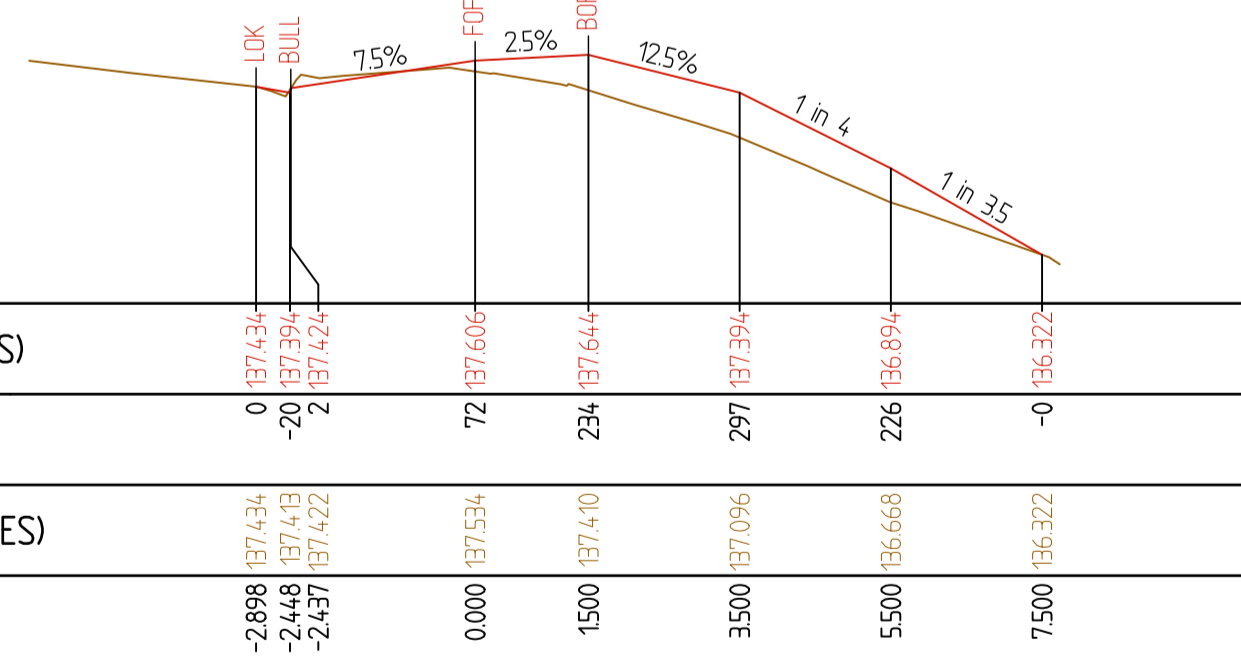
CH 30.000

CENTRELINE (CL A) DATA
X = 344188568
Y = 5814893.238
Z = 137.923



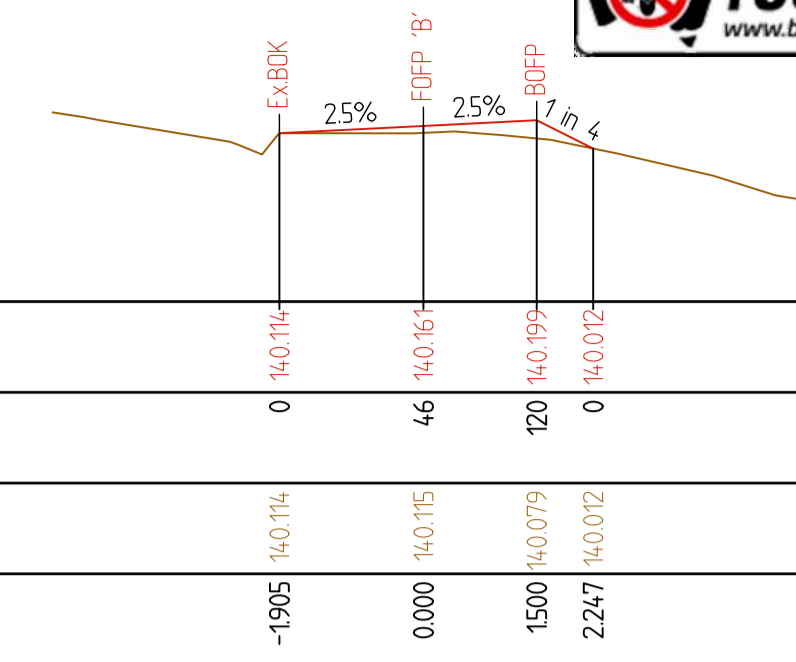
CH 25.000

CENTRELINE (CL A) DATA
X = 344181591
Y = 5814893.812
Z = 137.606



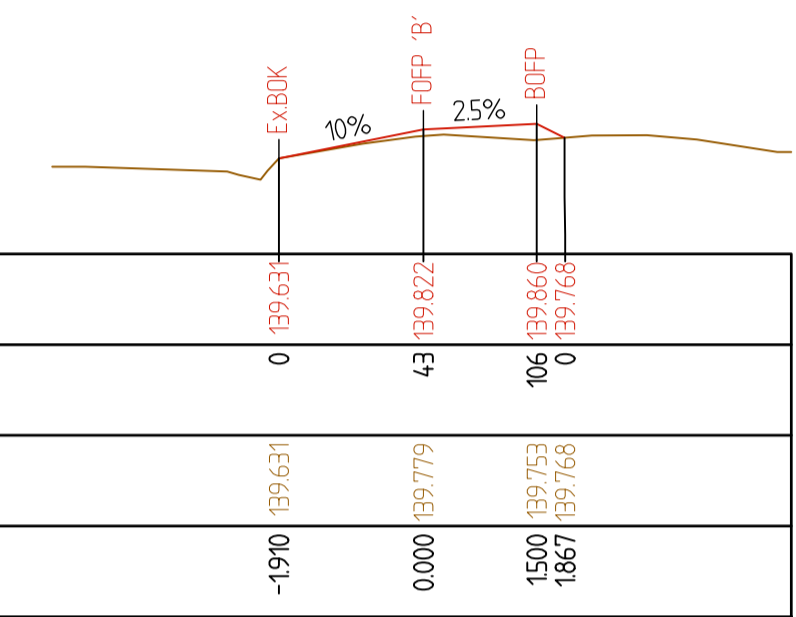
CH 18.000

CENTRELINE (CL A) DATA
X = 344225367
Y = 5814890.794
Z = 140.161



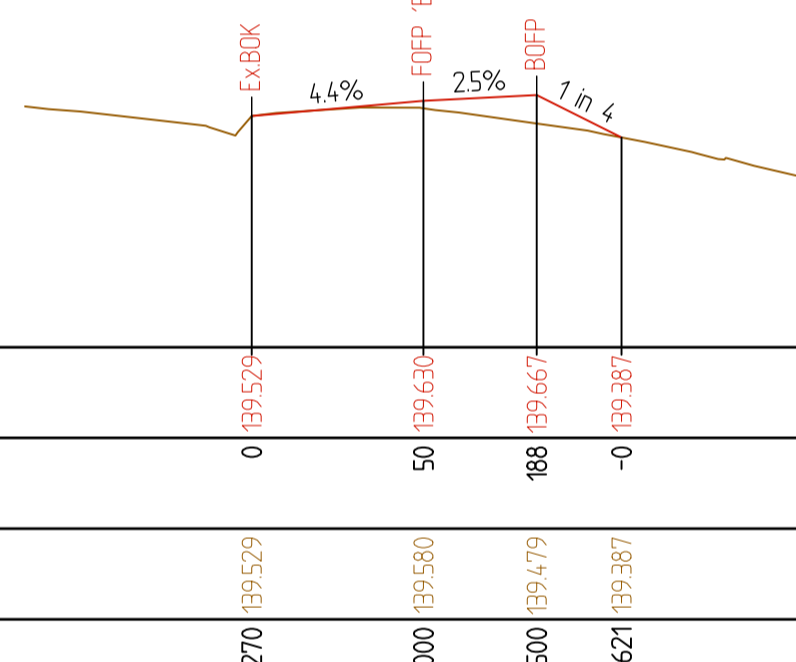
CH 62.159

CENTRELINE (CL A) DATA
X = 344220715
Y = 5814891.176
Z = 139.822



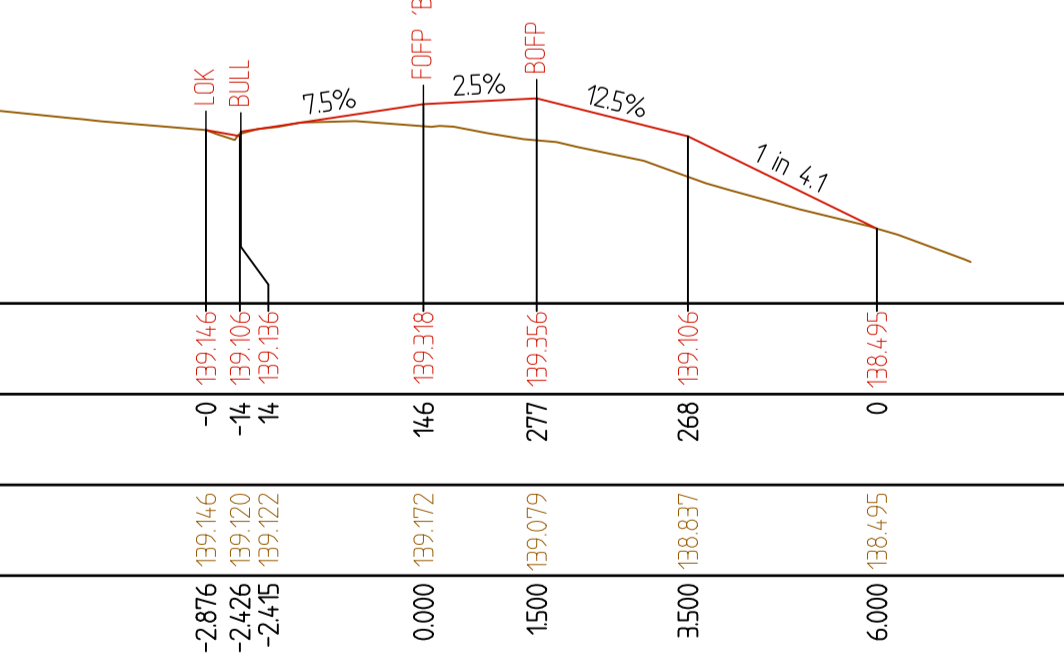
CH 57.303

CENTRELINE (CL A) DATA
X = 344218342
Y = 5814890.791
Z = 139.63



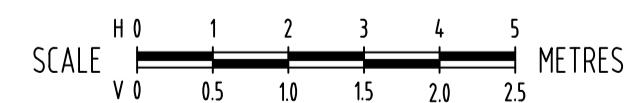
CH 54.874

CENTRELINE (CL A) DATA
X = 344213484
Y = 5814891.191
Z = 139.318



CH 50.000

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'B' - (FOPP B)



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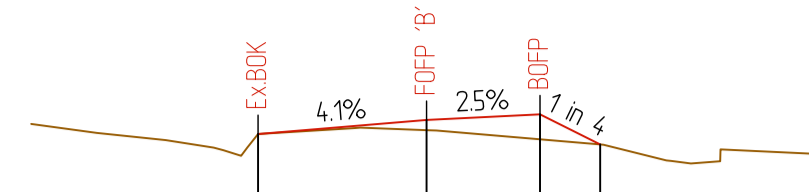
CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB



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CENTRELINE (CL A) DATA
X = 344252.973
Y = 5814887.945
Z = 142.323

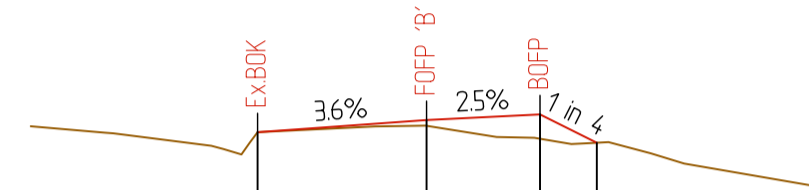


DATUM (AHD) 141.0

	0	67	165	0
DESIGN - FINISHED SURFACE (FS)	142.231	142.323	142.361	142.162
DIFFERENCE (ES - FS) (mm)	-0	67	165	0
SURVEY - EXISTING SURFACE (ES)	142.231	142.256	142.196	142.162
OFFSET	-2.230	0.000	1.500	2.295

CH 90.000

CENTRELINE (CL A) DATA
X = 344243.007
Y = 5814888.764
Z = 141.528

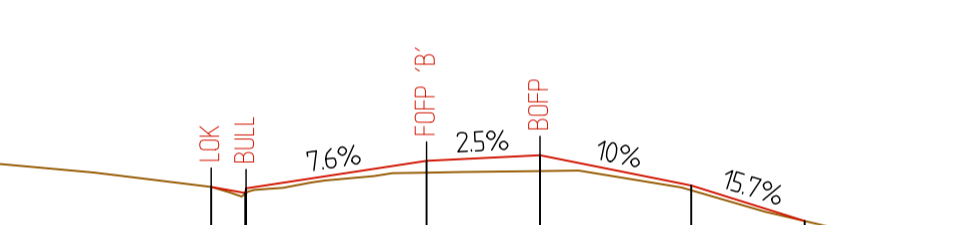


DATUM (AHD) 140.0

	0	38	161	-0
DESIGN - FINISHED SURFACE (FS)	141.447	141.528	141.565	141.377
DIFFERENCE (ES - FS) (mm)	0	38	161	-0
SURVEY - EXISTING SURFACE (ES)	141.447	141.489	141.404	141.377
OFFSET	-2.236	0.000	1.500	2.251

CH 80.000

CENTRELINE (CL A) DATA
X = 344236.03
Y = 5814889.338
Z = 140.969

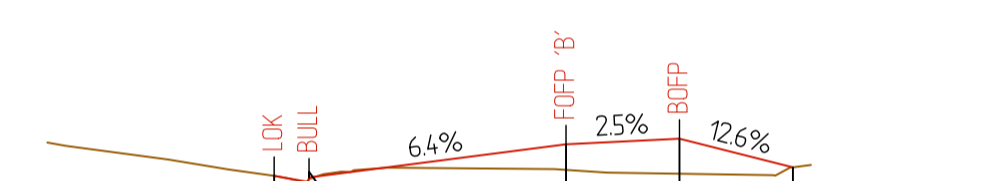


DATUM (AHD) 140.0

	0	31	78	105	32	0
DESIGN - FINISHED SURFACE (FS)	140.787	140.787	140.969	141.006	140.806	140.571
DIFFERENCE (ES - FS) (mm)	0	31	78	105	32	0
SURVEY - EXISTING SURFACE (ES)	140.787	140.756	140.891	140.901	140.774	140.571
OFFSET	-2.869	-2.388	0.000	1.500	3.500	5.000

CH 73.000

CENTRELINE (CL A) DATA
X = 344295.454
Y = 5814883.36
Z = 145.557

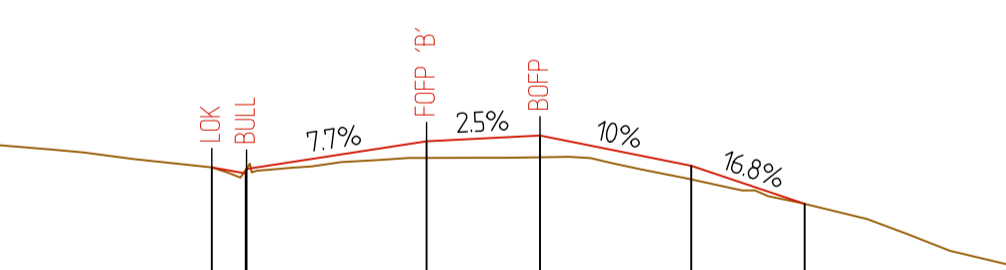


DATUM (AHD) 145.0

	0	14	169	232	-0
DESIGN - FINISHED SURFACE (FS)	145.349	145.309	145.557	145.596	145.405
DIFFERENCE (ES - FS) (mm)	0	-10	169	232	-0
SURVEY - EXISTING SURFACE (ES)	145.349	145.319	145.388	145.363	145.405
OFFSET	-3.862	-3.442	0.000	1.500	3.000

CH 133.000

CENTRELINE (CL A) DATA
X = 344229.054
Y = 5814889.911
Z = 140.423

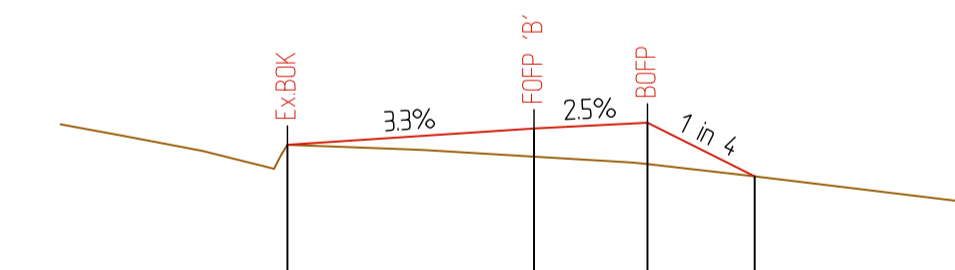


DATUM (AHD) 139.0

	0	110	143	90	0
DESIGN - FINISHED SURFACE (FS)	140.263	140.423	140.465	140.263	140.009
DIFFERENCE (ES - FS) (mm)	0	110	143	90	0
SURVEY - EXISTING SURFACE (ES)	140.263	140.313	140.317	140.171	140.009
OFFSET	-2.842	-2.587	-2.381	0.000	1.500

CH 66.000

CENTRELINE (CL A) DATA
X = 344281.532
Y = 5814884.505
Z = 144.507

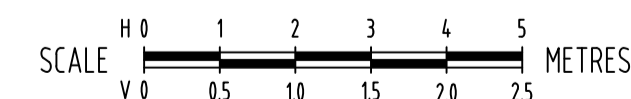


DATUM (AHD) 143.0

	0	186	273	0
DESIGN - FINISHED SURFACE (FS)	144.400	144.507	144.545	144.191
DIFFERENCE (ES - FS) (mm)	0	186	273	0
SURVEY - EXISTING SURFACE (ES)	144.400	144.321	144.272	144.191
OFFSET	-3.283	0.000	1.500	2.977

CH 119.031

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'B' - (FOPP B)



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REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.		

CROSS SECTION LEGEND

CODE	REFERENCE
CL	CENTRELINE
LOK	LIP OF KERB
BOK	BACK OF KERB
FOPP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
BULL	VEHICLE CROSSING BULLNOSE
Ex.LOK	EXISTING LIP OF KERB
Ex.BOK	EXISTING BACK OF KERB

CENTRELINE (CL A) DATA

X = 344258.974
Y = 5814862.889
Z = 141503

DATUM (AHD) 141.0

DESIGN - FINISHED SURFACE (FS)	0	141503	141503	141445
DIFFERENCE (ES - FS) (mm)	0	30	0	0
SURVEY - EXISTING SURFACE (ES)	-1657	-1500	0000	141445
OFFSET	-1657	-1500	0000	1625

CH 30.224

CENTRELINE (CL A) DATA

X = 344258.216
Y = 5814858.315
Z = 141393

DATUM (AHD) 140.0

DESIGN - FINISHED SURFACE (FS)	0	141393	141393	141291
DIFFERENCE (ES - FS) (mm)	0	97	73	-0
SURVEY - EXISTING SURFACE (ES)	-1748	-1500	0000	141291
OFFSET	-1748	-1500	0000	1844

CH 25.585

CENTRELINE (CL A) DATA

X = 344257.208
Y = 5814849.789
Z = 141308

DATUM (AHD) 140.0

DESIGN - FINISHED SURFACE (FS)	0	141308	141308	141039
DIFFERENCE (ES - FS) (mm)	0 <td>124</td> <td>205</td> <td>0</td>	124	205	0
SURVEY - EXISTING SURFACE (ES)	-1839	-1500	0000	141039
OFFSET	-1839	-1500	0000	1068

CH 17.000

CENTRELINE (CL A) DATA

X = 344256.033
Y = 5814839.858
Z = 141397

DATUM (AHD) 140.0

DESIGN - FINISHED SURFACE (FS)	0	141397	141397	141111	141081	141102	
DIFFERENCE (ES - FS) (mm)	0	99	265	181	-37	-55	
SURVEY - EXISTING SURFACE (ES)	-5500	-3500	-1500	0000	1992	2003	2453
OFFSET	-5500	-3500	-1500	0000	1992	2003	2453

CH 7.000

CENTRELINE (CL A) DATA

X = 344261.274
Y = 5814880.508
Z = 142.837

DATUM (AHD) 142.0

DESIGN - FINISHED SURFACE (FS)	-0	142837	142837	142837	142837	142993	142993	143004
DIFFERENCE (ES - FS) (mm)	-0	346	293	255	343	267	273	257
SURVEY - EXISTING SURFACE (ES)	-2836	-1500	0000	1342	1452	1492	1542	1632
OFFSET	-2836	-1500	0000	1342	1452	1492	1542	1632

CH 47.998

CENTRELINE (CL A) DATA

X = 344260.569
Y = 5814874.552
Z = 142.221

DATUM (AHD) 141.0

DESIGN - FINISHED SURFACE (FS)	0	142221	142221	142117	142087	142127	142304	142252	142252
DIFFERENCE (ES - FS) (mm)	0	107	58	88	59	88	63	79	63
SURVEY - EXISTING SURFACE (ES)	-2250	-1500	0000	1491	1502	1952	5152	8352	8802
OFFSET	-2250	-1500	0000	1491	1502	1952	5152	8352	8802

CH 42.000

CENTRELINE (CL A) DATA

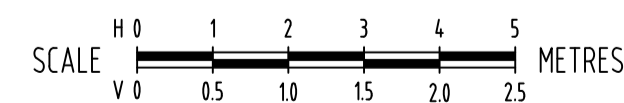
X = 344259.731
Y = 5814867.464
Z = 141.792

DATUM (AHD) 141.0

DESIGN - FINISHED SURFACE (FS)	0	141792	141792	141663
DIFFERENCE (ES - FS) (mm)	0	74	0	-0
SURVEY - EXISTING SURFACE (ES)	-1847	-1500	0000	1392
OFFSET	-1847	-1500	0000	1392

CH 34.862

CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'C' - (FOPP C)



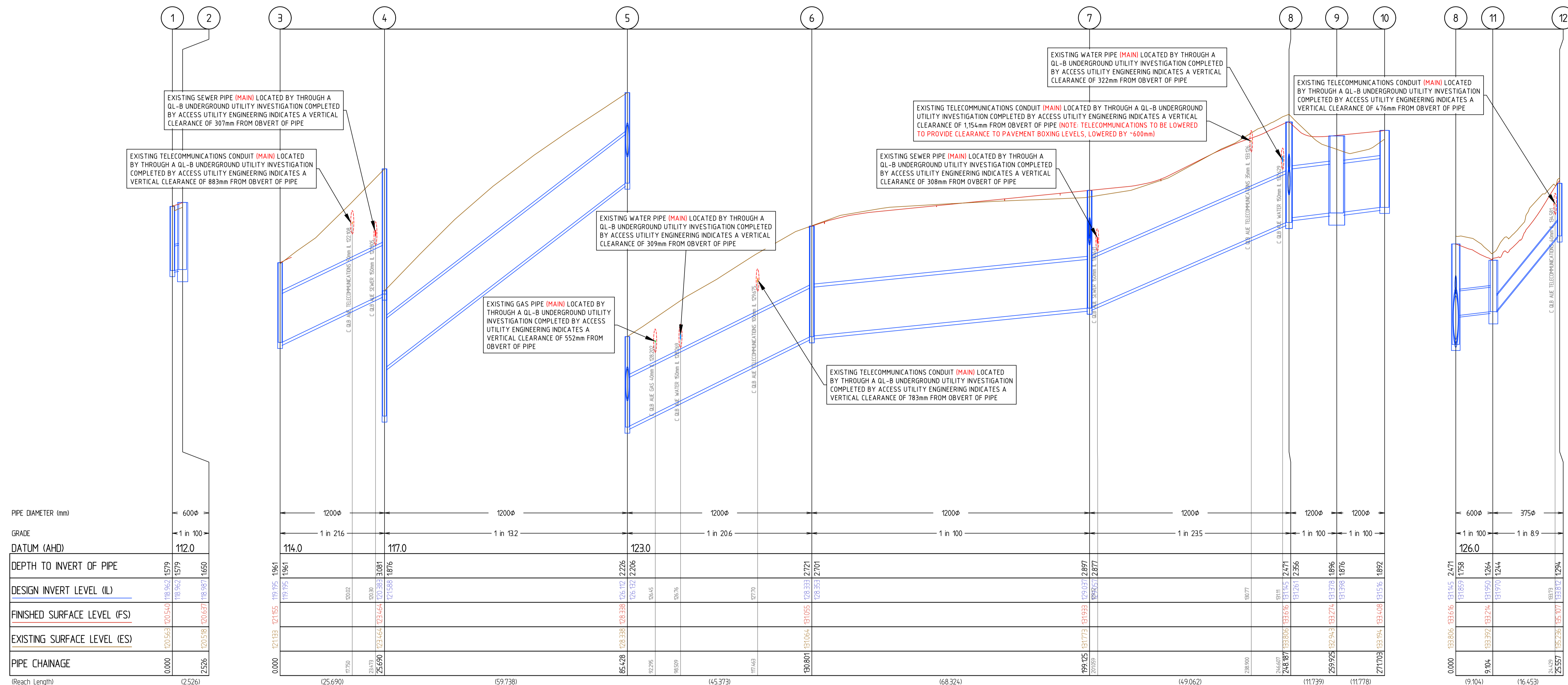
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<p>ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK.</p>	<p>SCALE H1-100/V1-50@A1</p>	<p>DATE STARTED 13-05-2024</p>	<p>SURVEY DATE DEC 2023</p>	<p>SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134</p>	<p>REV. S67850-290035</p>
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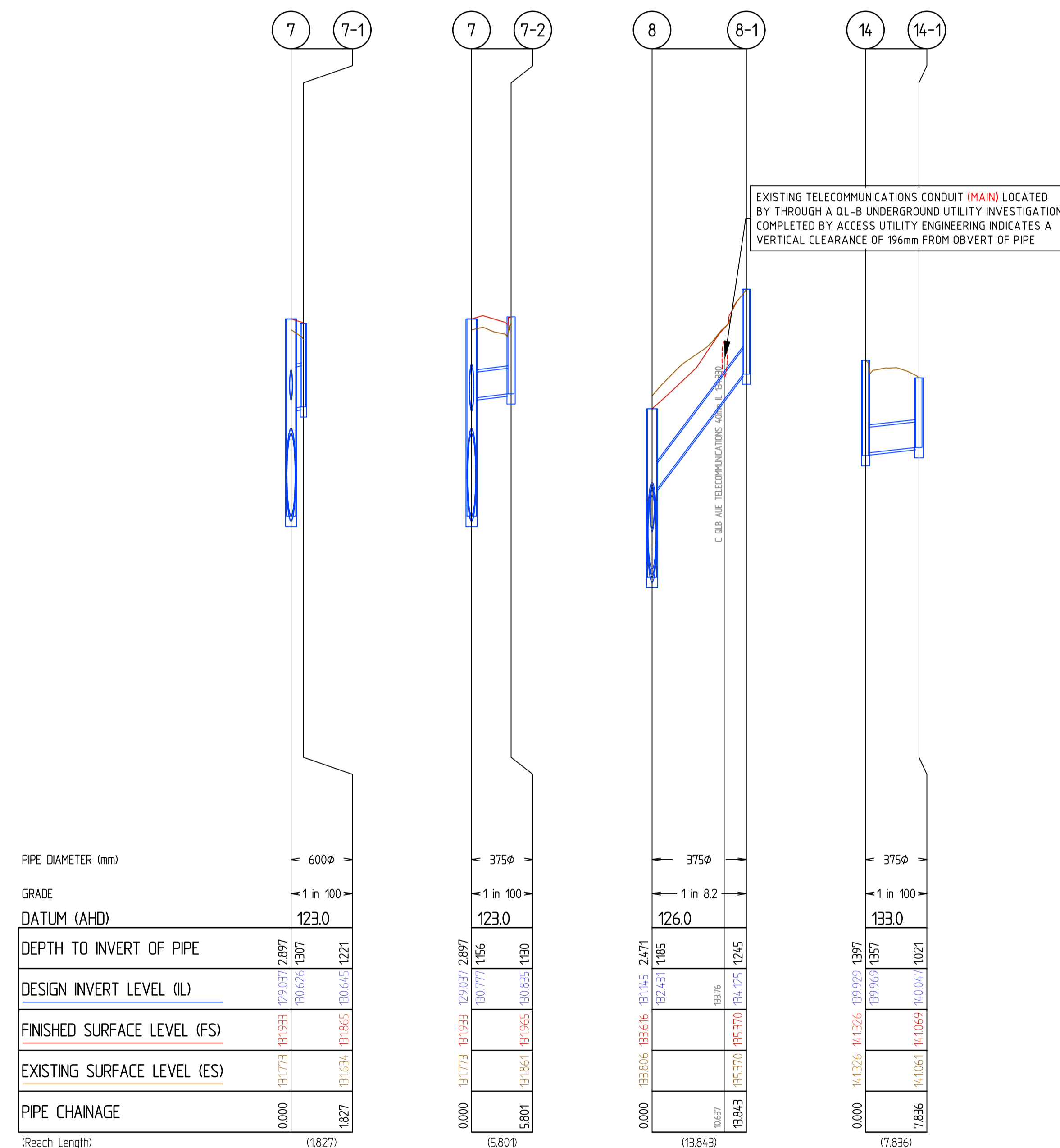


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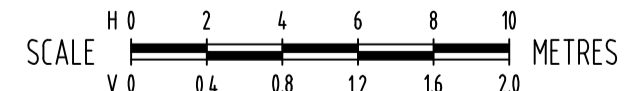




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DRAINAGE LONGITUDINAL SECTIONS

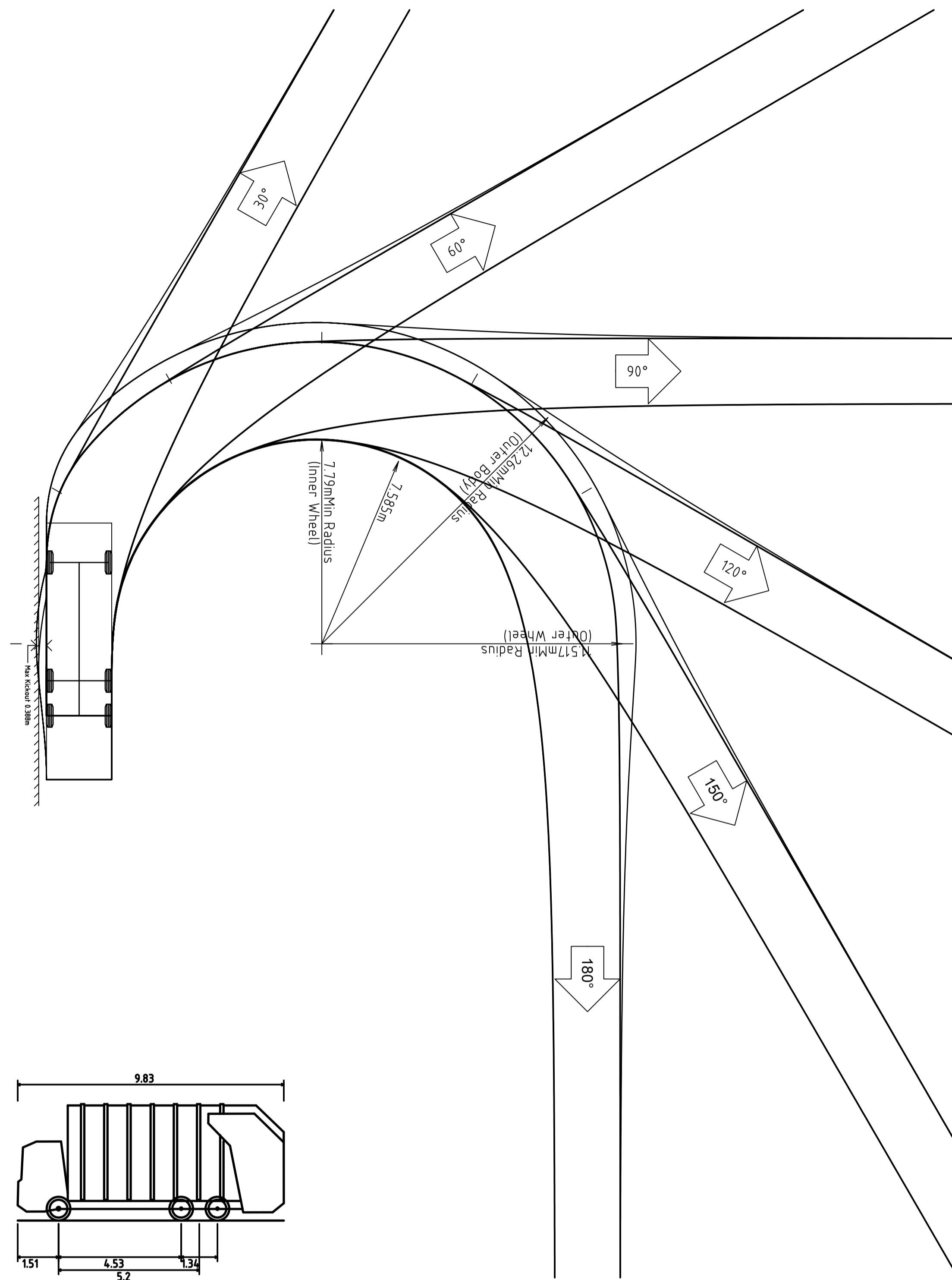


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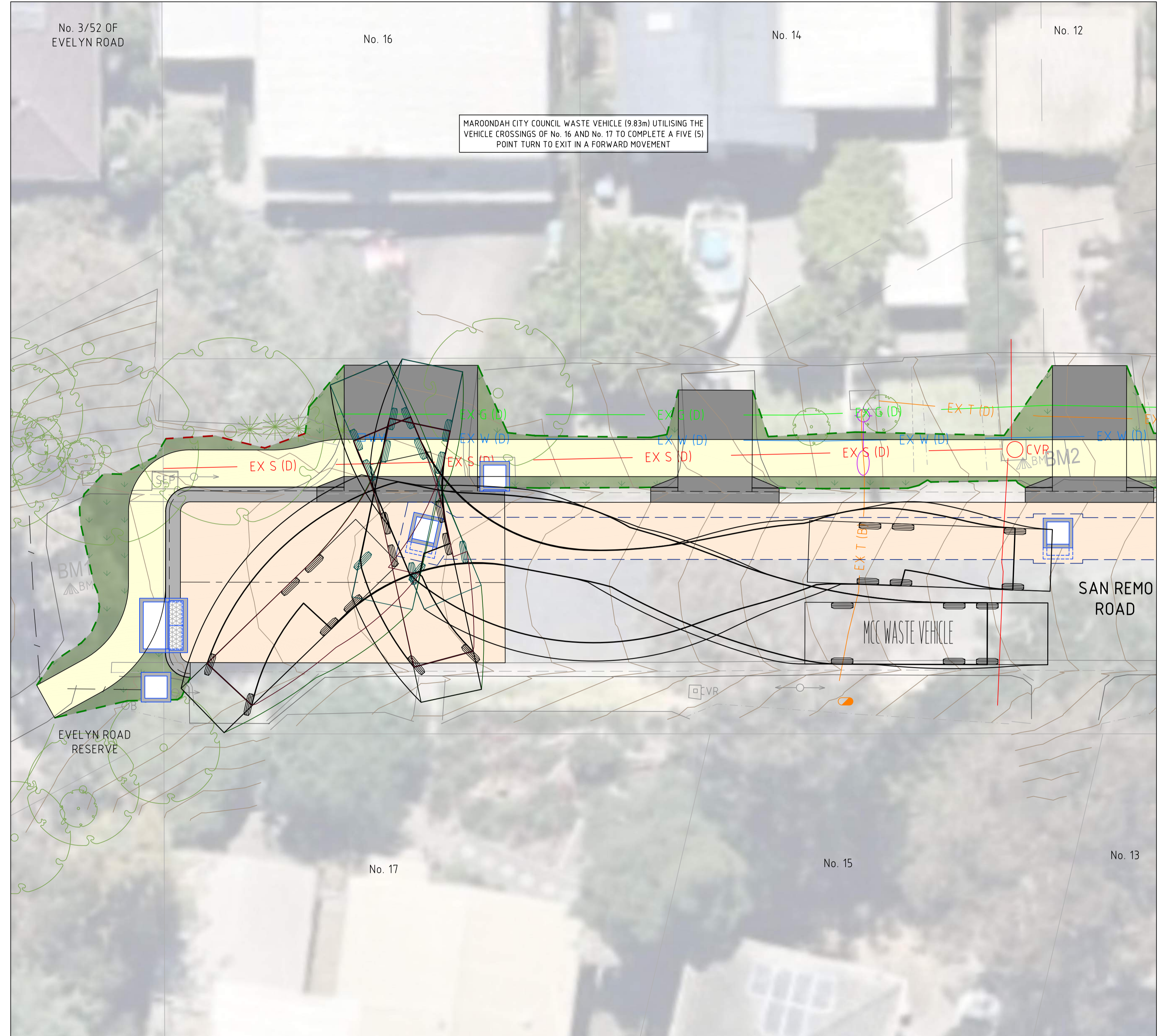
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F 100% DETAILED DESIGN - ISSUED FOR REVIEW E 80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING D 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING C 70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING B FUNCTIONAL DESIGN - ISSUED FOR REVIEW A FUNCTIONAL DESIGN - ISSUED FOR REVIEW	12-01-2025 28-08-2025 03-02-2025 18-10-2024 21-08-2024 28-06-2024	KC MC RY KC KC KC	CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOP DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE. ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART OF THE WORK. ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	REV DESCRIPTION DATE INIT APP				



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MCC WASTE VEHICLE
Overall Length 9.830m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.304m
Track Width 2.500m
Lock-to-lock time 6.00s
Max Wheel Angle 33.40°



SWEPT PATH ANALYSIS PLAN - MAROONDAH CITY COUNCIL WASTE VEHICLE (9.83m)

SCALE 0 1 2 3 4 5 METRES

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F	100% DETAILED DESIGN - ISSUED FOR REVIEW	12-01-2025	KC	KC	 OR AS SHOWN	MAROONDAH CITY COUNCIL PROJECT TITLE STORMWATER MANAGEMENT IMPROVEMENT WORKS SITE ADDRESS SAN REMO ROAD CATCHMENT RINGWOOD NORTH, VIC, 3134 DRAWING TITLE SWEPT PATH ANALYSIS PLAN - MAROONDAH WASTE VEHICLE	KC / MC	EW / KC		
E	80% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	28-08-2025	MC	KC			NO. OF SHEETS	43		
D	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	03-02-2025	RY	KC			SCALE	1:100@A1	DATE STARTED	13-05-2024
C	70% DETAILED DESIGN - ISSUED FOR REVIEW AND MODELLING	18-10-2024	KC	KC			SITE ID & JOB NO.	S67850-290035	REV.	
B	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	21-08-2024	KC	KC			DRAWING NO.	C042	F	
A	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	28-06-2024	KC	KC						
REV	DESCRIPTION	DATE	INIT	APP						