- 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
- THE CONTRACTOR IS TO ENSURE THAT ALL FOOTPATHS, KERBS, ROAD PAVEMENT, NATURE STRIPS, STREET FURNITURE AND
- SERVICES DAMAGED 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
- 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
- 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 FILL 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
- 13. THE CONTRACTOR IS TO ENSURE THAT ALL MAINTENANCE DEPOSITS AND BONDS ARE PAID TO THE RELEVANT AUTHORITIES AS
- 14. 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 SERVICE OF AN APPROVED GEOTECHNICAL ENGINEER. THE GEOTECHNICAL ENGINEER WILL BE REQUIRED TO ISSUE A COMPLIANCE CERTIFICATE CONFIRMING THAT THE WORKS HAVE BEEN COMPACTED TO THE STANDARD SPECIFIED.
- 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.
- iv. TRENCH BEDDING AND BACKFILL 1 TEST PER 30 M PER LAYER. 17. PROVIDE CLAY 'PLUG' TO ALL SERVICE TRENCHES WHERE ANY PIPE, DUCT OR CABLE ENTERS THE BUILDING TO PREVENT INGRESS OF

#### CONCRETE

#### 1. UNLESS NOTED OTHERWISE CONCRETE CRUSHING STRENGTH AT 28 DAYS SHALL BE AT LEAST:

ALLOW FOR THE FOLLOWING COMPACTION TESTS IN TENDER (AS A MINIMUM):

a. DRAINAGE WORKS: 20MPa

WATER UNDER BUILDING

b. 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
- MAINTENANCE WORKS SHALL INCLUDE BUT NOT BE LIMITED TO:
- TOPPING UP WITH SOIL WHERE SUBSIDED.
- RE-SEEDING AS REQUIRED. MOWING AND GENERAL LANDSCAPE MAINTENANCE.
- ALL LINEMARKING 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. TH 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.

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: SOIL REPORT NOT AVAILABLE
- 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
- 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 AXLE) 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 GARDEN BEDS AND LAWN AREAS.
- FILLING SHALL BE CLEAN WELL GRADED GRANULAR MATERIAL COMPACTED TO 95% MMDD 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

- SOIL CONTROL MEASURES MUST BE ADOPTED AT ALL TIMES TO THE SATISFACTION OF COUNCILS 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 W155 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 AROUND DRAINAGE POINTS.
- INSTALL ON-SITE WASTE RECEPTORS (e.g. MINI-SKIPS, BINS, WIND PROOF LITTER RECEPTORS). CONSTRUCTION OF DRAINAGE SYSTEM:

DETAILED DESIGN - ISSUED FOR REVIEW

CONCEPT DESIGN - ISSUED FOR REVIEW

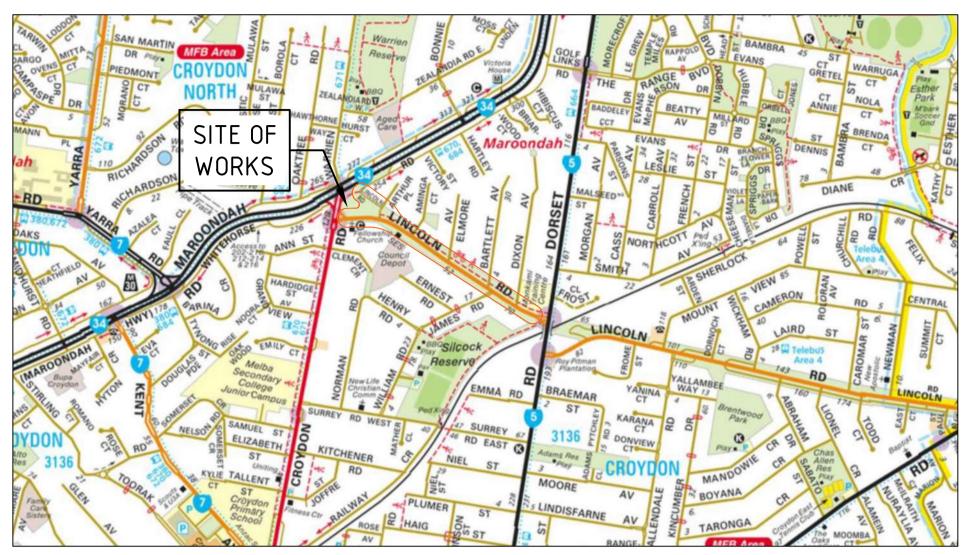
UNCTIONAL DESIGN - ISSUED FOR REVIEW

FUNCTIONAL DESIGN - ISSUED FOR REVIEW

- 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
- 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.

### FOOTPATH UPGRADE WORKS

### LINCOLN ROAD, CROYDON, VIC 3136





### LOCALITY PLAN

- INSTALL ROOF DOWNPIPES AS SOON AS PRACTICABLE IF NECESSARY USE TEMPORARY CONNECTIONS TO ENSURE STORMWATER DOES NOT DISCHARGE OVER LOOSE SOIL.
- a. PLACE VEGETATION SUITABLE TO MINIMISE LOOSE SOIL CONDITIONS, REFER TO THE APPROVED LANDSCAPING PLAN FOR

#### 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 100mi 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 FROI 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
- ALL VEHICLE ENTRY/EXIT POINTS ARE TO BE TREATED WITH CRUSHED ROCK OVER AN APPROVED WOVEN GEOTEXTILE FABRIC (DUX W155 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 HANDED OVER 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, LICENCES 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 SWEPT OFF THE ROAD AND NOT WASHED
- 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 OF, DOWN A DRAIN OR IN ANY OTHER WAY WHICH MAY BE CONSIDERED HARMFUL TO THE ENVIRONMENT.

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 GEOFABRIC MATERIAL TO THE SATISFACTION OF THE RELEVANT

MAROONDAH CITY COUNCIL - STANDARD CONSTRUCTION NOTES - MCC-002

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NCLUDING THE WHOLE OF SAME. SHALL BE USED FOR ANY PURPOSE OR SITE OTHER THAN WHICH IT WAS PREPARED. NOR BY ANY THIRD PARTY. WITHOUT THE PRIOR

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 <u>and approved</u> 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

- ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWINGS AND SPECIFICATIONS 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 ENCROACHES ON THE 3.0m "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 AUTHORISED 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 AS1742.3. ALL SIGNAGE
- (TEMPORARY AND PERMANENT) SHALL BE CLASS 1 REFLECTIVE GRADE.
- ALL CRUSHED ROCK TO BE CURRENT VICROADS REGISTERED MIXES. CLASS 3 CRUSHED ROCK & CEMENT TREATED CRUSHED ROCK MAY CONTAIN 100% CRUSHED CONCRETE IN ACCORDANCE WITH
- 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

- ALL CONCRETE TO HAVE COMPRESSIVE STRENGTH AT 28 DAYS NOT LESS THAN 25 MPa UNLESS SPECIFIED OTHERWISE.
- VICROADS TECHNICAL NOTE TN 107 USE OF RECYCLED MATERIALS IN ROAD PAVEMENTS.

### **DETAILED DESIGN**

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

DRAWING REGISTER

DRAWING TITLE

DRAWING NO

C001

C002

C003

C004

C006

C007

C008

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C016

TITLE SHEET

OVERALL PLAN

GENERAL LAYOUT PLAN

GENERAL LAYOUT PLAN - CONCEPT

TYPICAL SECTIONS D-D AND E-E

DRAINAGE LONGITUDINAL SECTIONS

TYPICAL SECTIONS A-A, B-B AND C-C

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

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

CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 3.061 A - CH 90.000 A

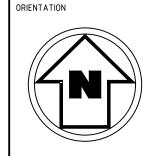
CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 100.000 A - CH 170.331 A

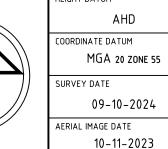
LONGITUDINAL SECTION - LIP OF KERB 'B' (LOK B)

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

MC / KC MAROONDAH CITY COUNCIL No. OF SHEETS FOOTPATH UPGRADE WORKS 12-07-2024 INCOLN ROAD S69900-290935 IROYDON, VIC, 3136 TITLE SHEET











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DESCRIPTION



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	09-10-2024
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10-11-2023

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ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122  fmgengineering.com.au   P 1300 975 878   ABN	EO 007 071 10
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MAROONDAH CITY COUNCIL	MC / KC	MC
PROJECT TITLE	CHECKED	No. OF SHEETS
IFOOTPATH UPGRADE WORKS	KC	19
	SCALE	DATE STARTED
SITE ADDRESS	1:1,250@A1	12-07-2024
LINCOLN ROAD	SITE ID & JOB No.	REV.
CROYDON, VIC, 3136	S69900-29	0935
DRAWING TITLE	DRAWING No.	
	$\Gamma$	
OVERALL PLAN		

LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC) CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH EXISTING DRAINAGE PIT MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EX T (D) - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

NOTES:

1. EXISTING SERVICES/UTILITIES (STORMWATER, TELECOMMUNICATION, ELECTRICAL POLES ETC.) ARE DRAWN INDICATIVELY AND NOT TO SCALE. LOCATIONS OF YOU DIG THESE UTILITIES ARE BASED ON: SITE VISIT, DATED 23RD AUGUST 2024

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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

GOOGLE MAP (WITH TOLERANCE) IMAGES TAKEN ON SITE.

THIS DRAWING SET INDICATES THE DESIGN INTENT AND SHALL BE CONFIRMED WITH COUNCIL PRIOR TO ANY WORKS BEING COMPLETED ON SITE. WHERE ALTERATIONS ARE REQUIRED INCLUDING, RECONSTRUCTION OF EXISTING CROSSOVERS OR CONSTRUCTION OF NEW DRIVEWAYS, THE CONTRACTOR SHALL LIAISE ACCORDINGLY WITH COUNCIL AND THE PROPERTY OWNER/S FOR APPROVAL.

4. THIS DRAWING SET DOES NOT ACCOUNT FOR STORMWATER DRAINAGE DESIGN AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE, THAT STORMWATER IS HANDLED EFFECTIVELY AFTER FOOTPATH CONSTRUCTION TO AVOID IMPACTING EXISTING PROPERTIES

5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE





SCALE 0 2 4 6 8 10 METRES

### **DETAILED DESIGN**

MC / KC

1:200@A1

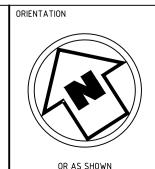
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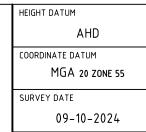
No. OF SHEETS

12-07-2024

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WRITTEN CONSENT OF FMG ENGINEERING.					
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 SH DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTUR	IKI	MC	28-02-2025	DETAILED DESIGN - ISSUED FOR REVIEW	D
	KC	MC	17-12-2024	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	C
ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PA	11/	MC	13-11-2024	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	В
OF THE WORK.	KC	MC	06-08-2024	CONCEPT DESIGN - ISSUED FOR REVIEW	Α
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10-11-2023



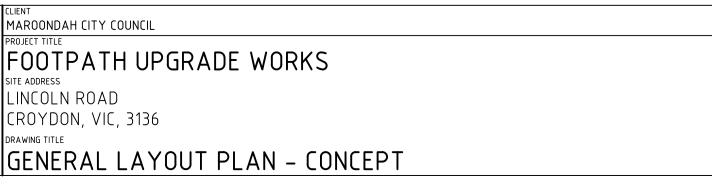


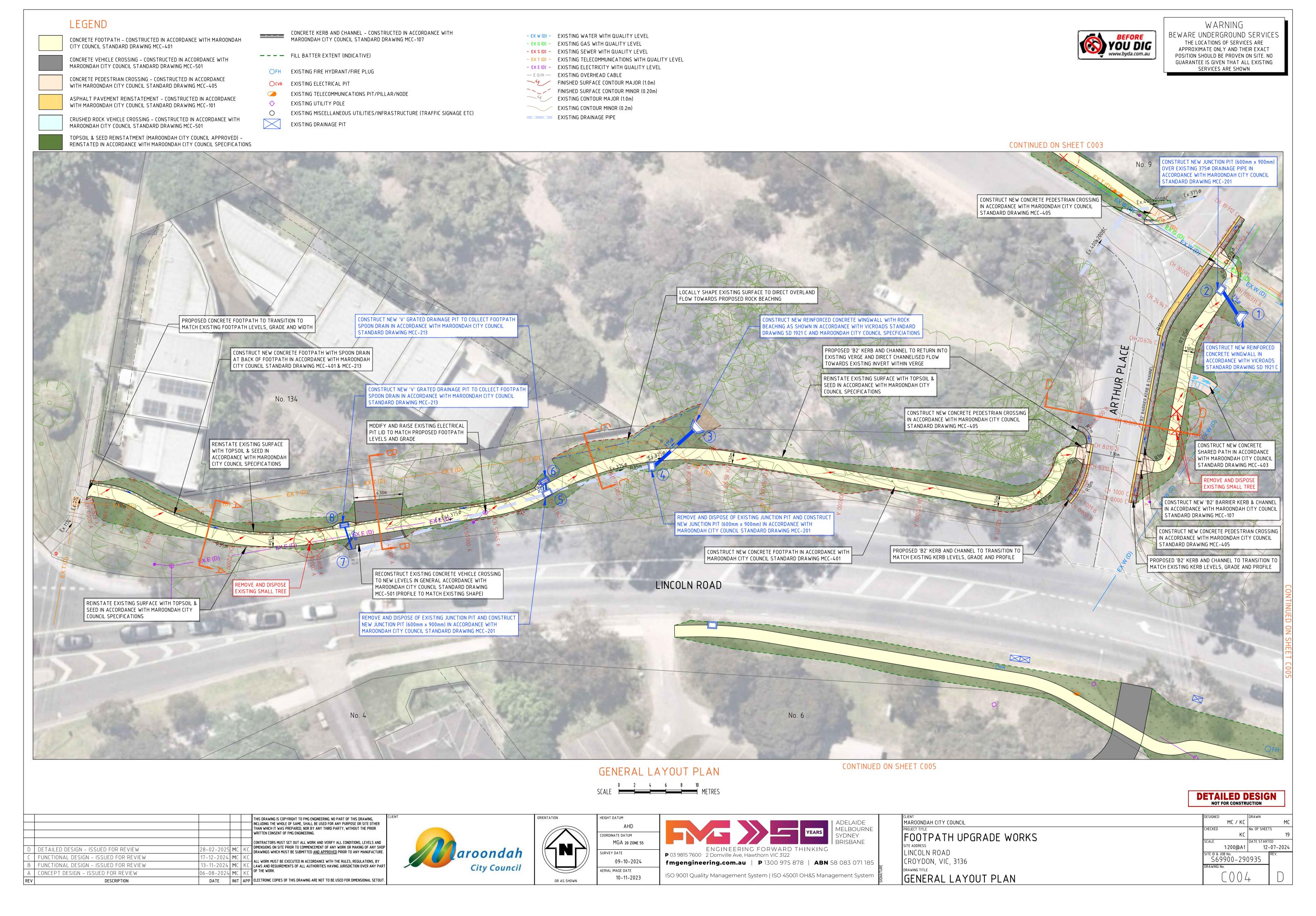
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#### LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE

ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC) CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH EXISTING DRAINAGE PIT MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

NOTES:

- SITE VISIT, DATED 12TH JULY 2024

1. EXISTING SERVICES/UTILITIES (STORMWATER, TELECOMMUNICATION, ELECTRICAL POLES ETC.) ARE DRAWN INDICATIVELY AND NOT TO SCALE. LOCATIONS OF VOUDIG THESE UTILITIES ARE BASED ON:

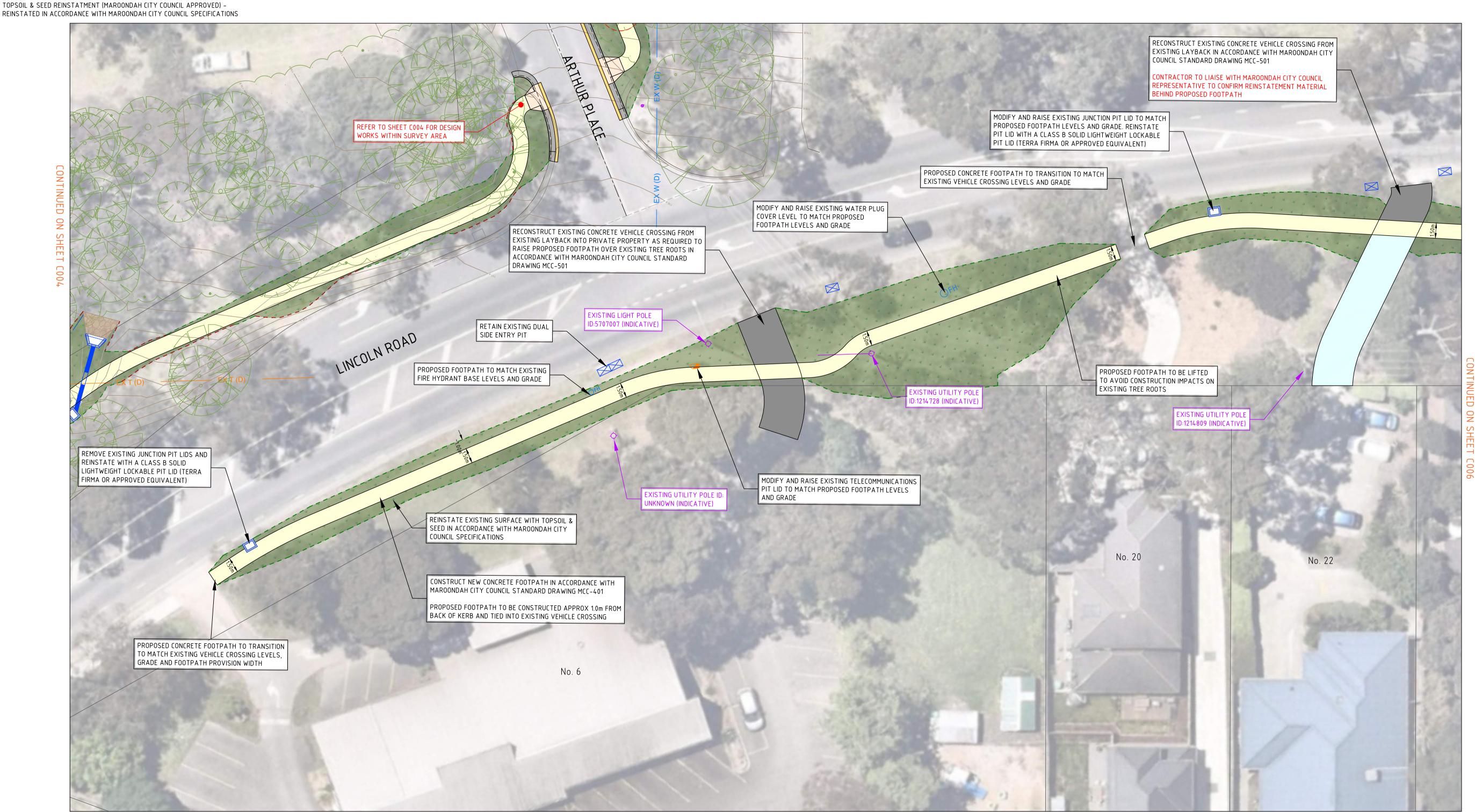
WARNING BEWARE UNDERGROUND SERVICES THE LOCATIONS OF SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN

GOOGLE MAP (WITH TOLERANCE) IMAGES TAKEN ON SITE.

THIS DRAWING SET INDICATES THE DESIGN INTENT AND SHALL BE CONFIRMED WITH COUNCIL PRIOR TO ANY WORKS BEING COMPLETED ON SITE. WHERE ALTERATIONS ARE REQUIRED INCLUDING, RECONSTRUCTION OF EXISTING CROSSOVERS OR CONSTRUCTION OF NEW DRIVEWAYS, THE CONTRACTOR SHALL LIAISE ACCORDINGLY WITH COUNCIL AND THE PROPERTY OWNER/S FOR APPROVAL.

4. THIS DRAWING SET DOES NOT ACCOUNT FOR STORMWATER DRAINAGE DESIGN AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE, THAT STORMWATER IS HANDLED EFFECTIVELY AFTER FOOTPATH CONSTRUCTION TO AVOID IMPACTING EXISTING PROPERTIES

5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE



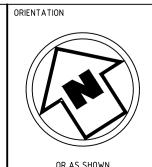
### GENERAL LAYOUT PLAN - CONCEPT



### **DETAILED DESIGN**

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					WRITTEN CONSENT OF FMG ENGINEERING.
					CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND
D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	IKI	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.
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
Α	CONCEPT DESIGN – ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.
REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.





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COORDINATE DATUM
MGA 20 ZONE 55
SURVEY DATE
09-10-2024
AERIAL IMAGE DATE



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OOTPATH UPGRADE WORKS	SCALE	DATE STARTED	, –
ADDRESS	1:200@A1	12-07-2024	+
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LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC) CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH EXISTING DRAINAGE PIT MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

NOTES:

1. EXISTING SERVICES/UTILITIES (STORMWATER, TELECOMMUNICATION, ELECTRICAL POLES ETC.) ARE DRAWN INDICATIVELY AND NOT TO SCALE. LOCATIONS OF THESE UTILITIES ARE BASED ON:

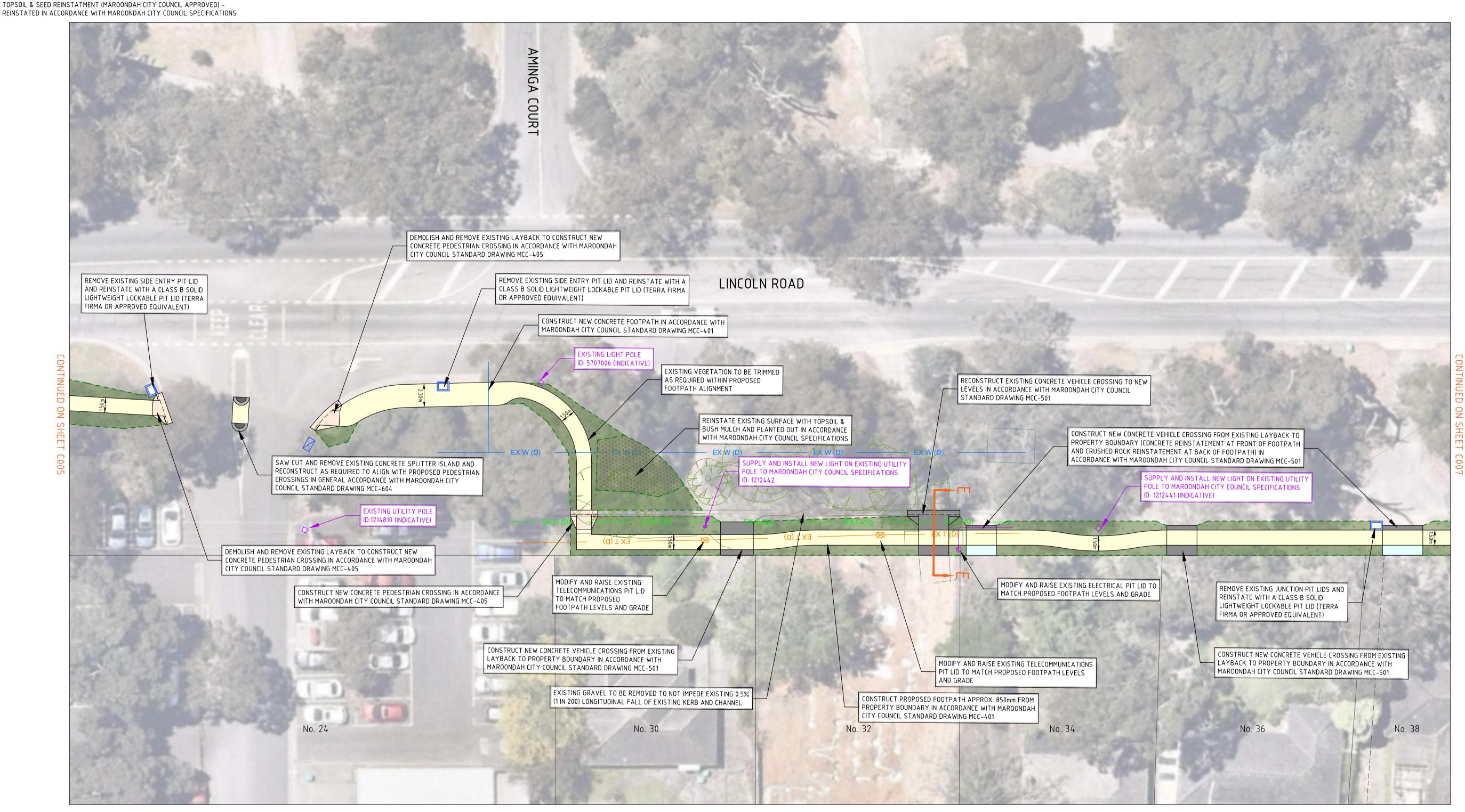
 SITE VISIT, DATED 12TH JULY 2024 GOOGLE MAP (WITH TOLERANCE)

IMAGES TAKEN ON SITE. THIS DRAWING SET INDICATES THE DESIGN INTENT AND SHALL BE CONFIRMED WITH COUNCIL PRIOR TO ANY WORKS BEING COMPLETED ON SITE. WHERE ALTERATIONS ARE REQUIRED INCLUDING, RECONSTRUCTION OF EXISTING CROSSOVERS OR CONSTRUCTION OF NEW DRIVEWAYS, THE CONTRACTOR

SHALL LIAISE ACCORDINGLY WITH COUNCIL AND THE PROPERTY OWNER/S FOR APPROVAL. 4. THIS DRAWING SET DOES NOT ACCOUNT FOR STORMWATER DRAINAGE DESIGN AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE, THAT

STORMWATER IS HANDLED EFFECTIVELY AFTER FOOTPATH CONSTRUCTION TO AVOID IMPACTING EXISTING PROPERTIES 5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE THE LOCATIONS OF SERVICES ARE

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







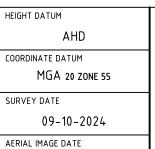
MC / KC MAROONDAH CITY COUNCIL No. OF SHEETS FOOTPATH UPGRADE WORKS 1:200@A1 12-07-2024 LINCOLN ROAD TE ID & JOB No. S69900-290935 CROYDON, VIC., 3136 GENERAL LAYOUT PLAN - CONCEPT

**DETAILED DESIGN** 

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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
	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC		DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES. REGULATIONS. BY
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
A	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.
REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.







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SYDNEY

#### LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101

CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH

TOPSOIL & SEED REINSTATMENT (MAROONDAH CITY COUNCIL APPROVED) -

MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC)

EXISTING DRAINAGE PIT

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

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- SITE VISIT, DATED 12TH JULY 2024 GOOGLE MAP (WITH TOLERANCE)

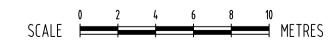
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GENERAL LAYOUT PLAN - CONCEPT

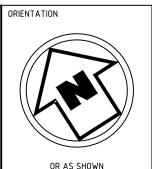


CLIENT	DESIGNED	DRAWN
MAROONDAH CITY COUNCIL	MC / KC	MC MC
PROJECT TITLE	CHECKED	No. OF SHEETS
FOOTPATH UPGRADE WORKS	KC	19
	SCALE	DATE STARTED
SITE ADDRESS	1:200@A1	12-07-2024
LINCOLN ROAD	SITE ID & JOB No.	REV.
CROYDON, VIC, 3136	\$69900-29	0935

**DETAILED DESIGN** 

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D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	КC	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
С	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024		KC	DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE.
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC		ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
Α	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.
REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.







10-11-2023





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GENERAL LAYOUT PLAN - CONCEPT

RAWING TITLE

LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC) CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH EXISTING DRAINAGE PIT MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL
- EX G (D) - EXISTING GAS WITH QUALITY LEVEL
- EX S (D) - EXISTING SEWER WITH QUALITY LEVEL
- EX T (D) - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL
- EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL
- E O/H - EXISTING OVERHEAD CABLE
- FINISHED SURFACE CONTOUR MAJOR (1.0m)
- FINISHED SURFACE CONTOUR MINOR (0.20m)
- EXISTING CONTOUR MAJOR (1.0m)
- EXISTING CONTOUR MINOR (0.2m)
- EXISTING DRAINAGE PIPE

NOTES:

1. EXISTING SERVICES/UTILITIES (STORMWATER, TELECOMMUNICATION, ELECTRICAL POLES ETC.) ARE DRAWN INDICATIVELY AND NOT TO SCALE. LOCATIONS OF THESE LITILITIES ARE BASED ON:

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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

THESE UTILITIES ARE BASED ON: - SITE VISIT, DATED 12TH JULY 2024

SITE VISIT, DATED 12TH JULY 2024
 GOOGLE MAP (WITH TOLERANCE)
 IMAGES TAKEN ON SITE.

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STORMWATER IS HANDLED EFFECTIVELY AFTER FOOTPATH CONSTRUCTION TO AVOID IMPACTING EXISTING PROPERTIES

5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE

TOPSOIL & SEED REINSTATMENT (MAROONDAH CITY COUNCIL APPROVED) -REINSTATED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL SPECIFICATIONS LINCOLN ROAD CONSTRUCT NEW CONCRETE PEDESTRIAN CROSSING IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 REMOVE EXISTING DRAINAGE PIT AND CONSTRUCT NEW TABLE DRAIN REMOVE AND DISPOSE OF EXISTING CONCRETE PEDESTRIAN INLET (V-NOTCH) PIT WITH TABLE DRAIN RESHAPED AS REQUIRED TO CROSSING AND REINSTATE WITH CONCRETE KERB TO MATCH DIRECT FLOWS TOWARDS PIT IN ACCORDANCE WITH MAROONDAH EXISTING PROFILE IN ACCORDANCE WITH MARRONDAH CITY CITY COUNCIL STANDARD DRAWING MCC-212 COUNCIL STANDARD DRAWING MCC-107 CONSTRUCT NEW CONCRETE FOOTPATH IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 SUPPLY AND INSTALL NEW LIGHT ON EXISTING UTIL CONSTRUCT NEW CONCRETE VEHICLE CROSSING FROM EXISTING POLE TO MAROONDAH CITY COUNCIL SPECIFICATIONS UPPLY AND INSTALL NEW LIGHT ON LAYBACK TO PROPERTY BOUNDARY IN ACCORDANCE WITH CONSTRUCT NEW CONCRETE PEDESTRIAN CROSSING IN ACCORDANCE PROPOSED CONCRETE FOOTPATH TO TRANSITION TO MATCH ID: 1212319 (INDICATIVE) EXISTING UTILITY POLE TO MAROONDAH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING VEHICLE CROSSING LEVELS AND GRADE TY COUNCIL SPECIFICATIONS IPPLY AND INSTALL NEW LIGHT ON EXISTING UTILIT KISTING UTILITY POLE WITH LIGHT DLE TO MAROONDAH CITY COUNCIL SPECIFICATIONS ): 1212436 (INDICATIVE) MODIFY AND RAISE EXISTING TELECOMMUNICATIONS RETAIN EXISTING PIT LID TO MATCH PROPOSED FOOTPATH LEVELS FELECOMMUNICATIONS PIT RECONSTRUCT EXISTING CONCRETE VEHICLE CROSSING FROM AND GRADE EXISTING LAYBACK TO PROPERTY BOUNDARY IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-50 MODIFY AND RAISE EXISTING TELECOMMUNICATIONS PIT LID TO MATCH PROPOSED FOOTPATH LEVELS AND GRADE PROPOSED CONCRETE FOOTPATH TO TRANSITION TO MATCH REINSTATE EXISTING SURFACE WITH TOPSOIL 8 PROPOSED CONCRETE FOOTPATH TO TRANSITION TO MATCH EXISTING VEHICLE CROSSING LEVELS AND GRADE SEED IN ACCORDANCE WITH MAROONDAH CITY No. 58 XISTING CONCRETE FOOTPATH LEVELS, GRADE AND WIDTH COUNCIL SPECIFICATIONS PROPOSED CONCRETE FOOTPATH TO TRANSITION TO MATCH EXISTING CONCRETE FOOTPATH LEVELS, GRADE AND WIDTH CONSTRUCT NEW CONCRETE VEHICLE CROSSING TO PROPERTY BOUNDARY CRUSHED ROCK REINSTATEMENT AT FRONT OF FOOTPATH AS REQUIRED AND CONCRETE REINSTATEMENT AT BACK OF FOOTPATH) IN ACCORDANCE No. 62 WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 No. 52 REMOVE AND DISPOSE OF EXISTING CONCRETE PEDESTRIAN CROSSING AND REINSTATE WITH CONCRETE KERB TO MATCH EXISTING PROFILE IN ACCORDANCE WITH MARRONDAH CITY COUNCIL STANDARD DRAWING MCC-107

### GENERAL LAYOUT PLAN – CONCEPT



<b>_</b>		
CLIENT	DESIGNED	DRAWN
MAROONDAH CITY COUNCIL	MC / KC	MC
PROJECT TITLE	CHECKED	No. OF SHEETS
FOOTPATH UPGRADE WORKS	KC	19
	SCALE	DATE STARTED
SITE ADDRESS	1:200@A1	12-07-2024
LINCOLN ROAD	SITE ID & JOB No.	REV.
CROYDON, VIC, 3136	S69900-29	0935
DRAWING TITLE	DRAWING No.	
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GENERAL LAYOUT PLAN - CONCEPT		

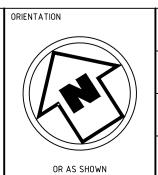
**DETAILED DESIGN** 

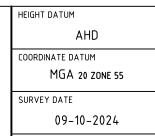
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					CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND
D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	I K I I	DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHO DRAWINGS WHICH MUST BE SUBMITTED AND APPROVED PRIOR TO ANY MANUFACTURE
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	1/6	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PARTICLE.
Α	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.

DESCRIPTION

DATE INIT APP ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOU









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#### LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC)

EXISTING DRAINAGE PIT

CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH

MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

NOTES:

1. EXISTING SERVICES/UTILITIES (STORMWATER, TELECOMMUNICATION, ELECTRICAL POLES ETC.) ARE DRAWN INDICATIVELY AND NOT TO SCALE. LOCATIONS OF THESE LITTLES ARE BASED ON: THESE UTILITIES ARE BASED ON:

 SITE VISIT, DATED 12TH JULY 2024 GOOGLE MAP (WITH TOLERANCE)

IMAGES TAKEN ON SITE. THIS DRAWING SET INDICATES THE DESIGN INTENT AND SHALL BE CONFIRMED WITH COUNCIL PRIOR TO ANY WORKS BEING COMPLETED ON SITE. WHERE ALTERATIONS ARE REQUIRED INCLUDING, RECONSTRUCTION OF EXISTING CROSSOVERS OR CONSTRUCTION OF NEW DRIVEWAYS, THE CONTRACTOR

SHALL LIAISE ACCORDINGLY WITH COUNCIL AND THE PROPERTY OWNER/S FOR APPROVAL. 4. THIS DRAWING SET DOES NOT ACCOUNT FOR STORMWATER DRAINAGE DESIGN AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE, THAT

STORMWATER IS HANDLED EFFECTIVELY AFTER FOOTPATH CONSTRUCTION TO AVOID IMPACTING EXISTING PROPERTIES 5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE

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







MAROONDAH CITY COUNCIL MC / KC No. OF SHEETS FOOTPATH UPGRADE WORKS 1:200@A1 LINCOLN ROAD TE ID & JOB No. S69900-290935 CROYDON, VIC, 3136

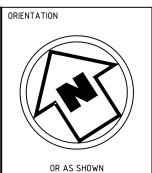
GENERAL LAYOUT PLAN - CONCEPT

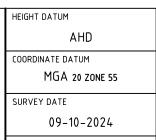
**DETAILED DESIGN** 

12-07-2024

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D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	IKI	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.	
С	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC		l
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC		ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART	l
Α	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.	l
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#### LEGEND CONCRETE KERB AND CHANNEL - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-107 CONCRETE FOOTPATH - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-401 — — — FILL BATTER EXTENT (INDICATIVE) CONCRETE VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501 OFH EXISTING FIRE HYDRANT/FIRE PLUG CONCRETE PEDESTRIAN CROSSING - CONSTRUCTED IN ACCORDANCE OCVR EXISTING ELECTRICAL PIT WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-405 EXISTING TELECOMMUNICATIONS PIT/PILLAR/NODE ASPHALT PAVEMENT REINSTATEMENT - CONSTRUCTED IN ACCORDANCE EXISTING UTILITY POLE WITH MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-101 EXISTING MISCELLANEOUS UTILITIES/INFRASTRUCTURE (TRAFFIC SIGNAGE ETC) CRUSHED ROCK VEHICLE CROSSING - CONSTRUCTED IN ACCORDANCE WITH

MAROONDAH CITY COUNCIL STANDARD DRAWING MCC-501

EXISTING DRAINAGE PIT

- EX W (D) - EXISTING WATER WITH QUALITY LEVEL - EX G (D) - EXISTING GAS WITH QUALITY LEVEL - EX S (D) - EXISTING SEWER WITH QUALITY LEVEL - EX T (D) - EXISTING TELECOMMUNICATIONS WITH QUALITY LEVEL - EX E (D) - EXISTING ELECTRICITY WITH QUALITY LEVEL — E O/H — EXISTING OVERHEAD CABLE FINISHED SURFACE CONTOUR MAJOR (1.0m) FINISHED SURFACE CONTOUR MINOR (0.20m) EXISTING CONTOUR MAJOR (1.0m) EXISTING CONTOUR MINOR (0.2m) EXISTING DRAINAGE PIPE

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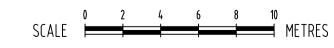
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5. BATTERING/REINSTATEMENT WITH TOPSOIL AND SEED TO BE COMPLETED FOR NEWLY CONSTRUCTED FOOTPATH AND TIED INTO EXISTING SURFACE



### GENERAL LAYOUT PLAN - CONCEPT

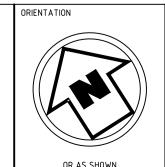


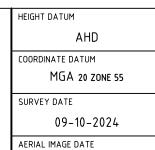
#### MAROONDAH CITY COUNCIL MC / KC FOOTPATH UPGRADE WORKS 1:200@A1 12-07-2024 LINCOLN ROAD TE ID & JOB No. S69900-290935 CROYDON, VIC, 3136 ISO 9001 Quality Management System | ISO 45001 OH&S Management System GENERAL LAYOUT PLAN - CONCEPT

**DETAILED DESIGN** 

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D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	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.
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024		KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
А	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.
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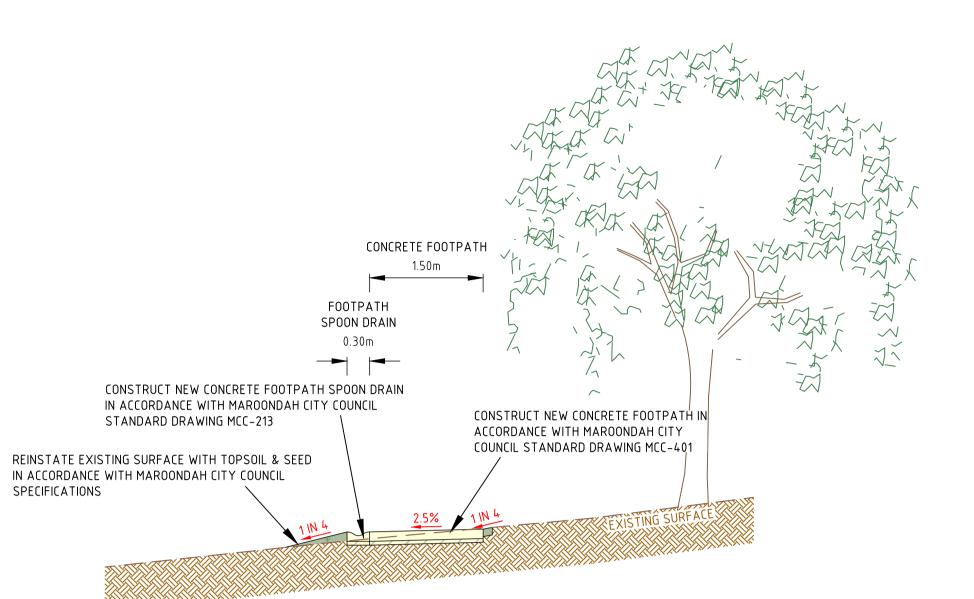




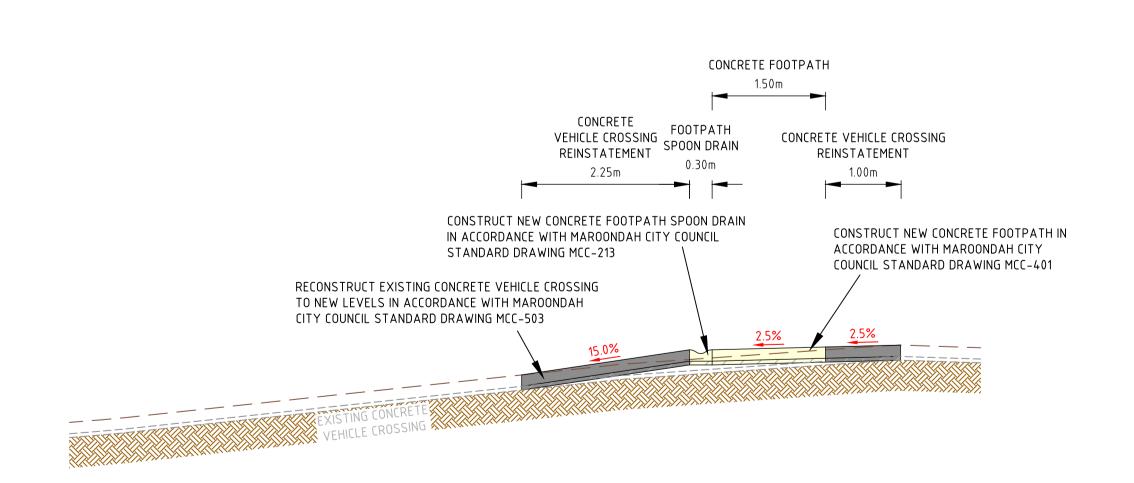


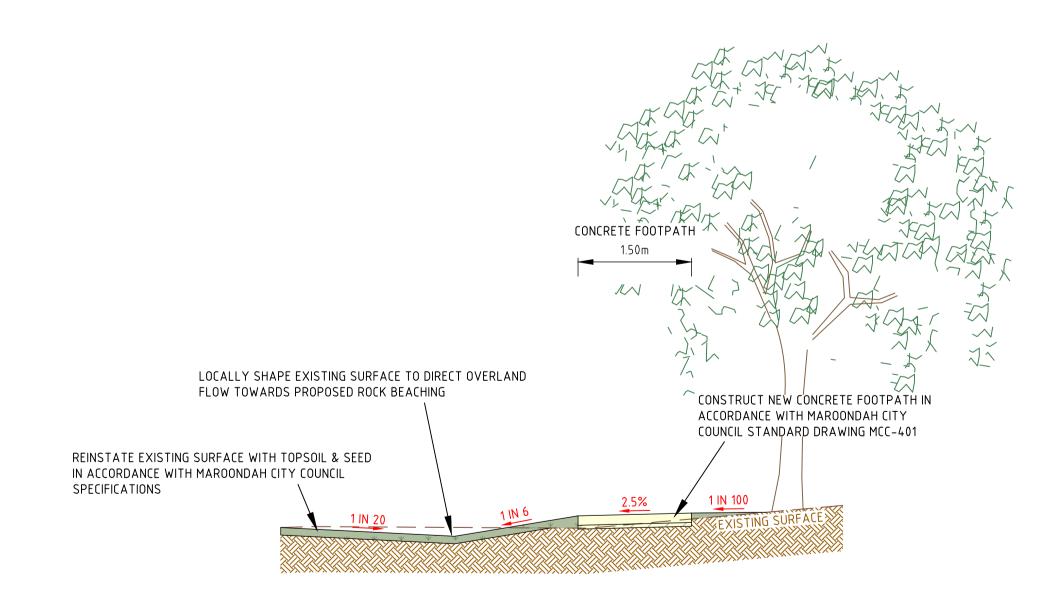












TYPICAL SECTION C-C

### TYPICAL SECTION B-B

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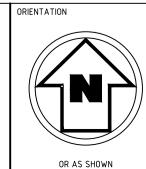
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CONCEPT DESIGN - ISSUED FOR REVIEW

DESCRIPTION

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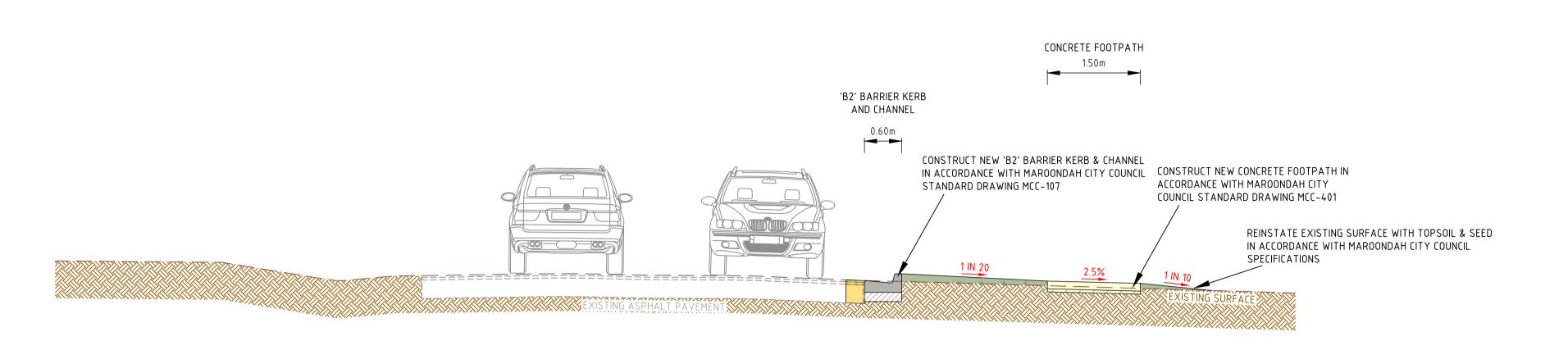
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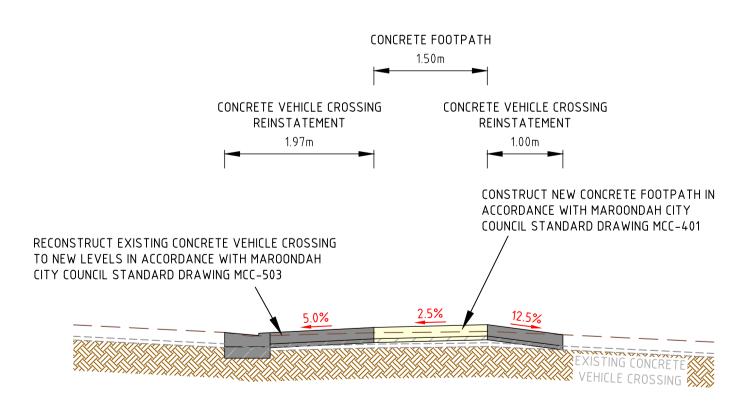
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	FOOTPATH UPGRADE WORKS	KC		1'
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	CROYDON, VIC, 3136	S69900-290	0935	
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		L C 0 1 ′	1 l	
	TYPICAL CROSS SECTIONS A-A, B-B AND C-C	COI	l	
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**DETAILED DESIGN** 





### TYPICAL SECTION D-D SCALE 0 0.5 1.0 1.5 2.0 2.5 METRES



### TYPICAL SECTION E-E

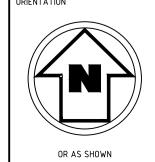


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CROYDON, VIC, 3136	S69900-2909	935
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					WRITTEN CONSENT OF FMG ENGINEERING.
					CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND
D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC		DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SHOILD READ TO ANY MANUFACTURE.
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PAR
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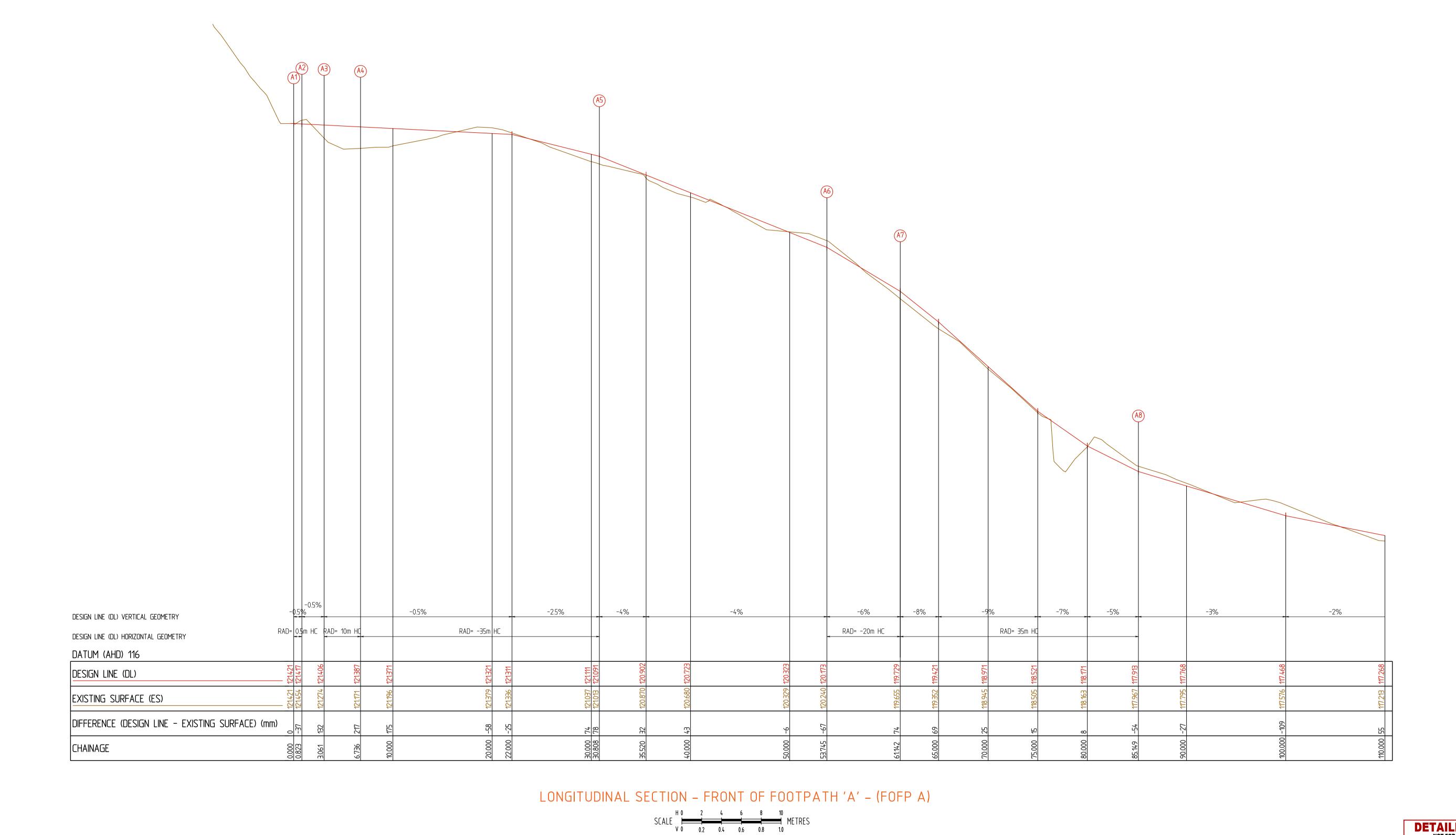
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SURVEY DATE
09-10-2024
AERIAL IMAGE DATE
10-11-2023

1	YEARS	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
l	ISO 9001 Quality Management System   ISO 45001 OH&S Mana	agement System

DRAWING TITLE

TYPICAL CROSS SECTIONS D-D AND E-E





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DETAILED DESIGN - ISSUED FOR REVIEW

CONCEPT DESIGN - ISSUED FOR REVIEW

FUNCTIONAL DESIGN - ISSUED FOR REVIEW

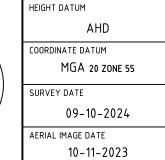
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DESCRIPTION

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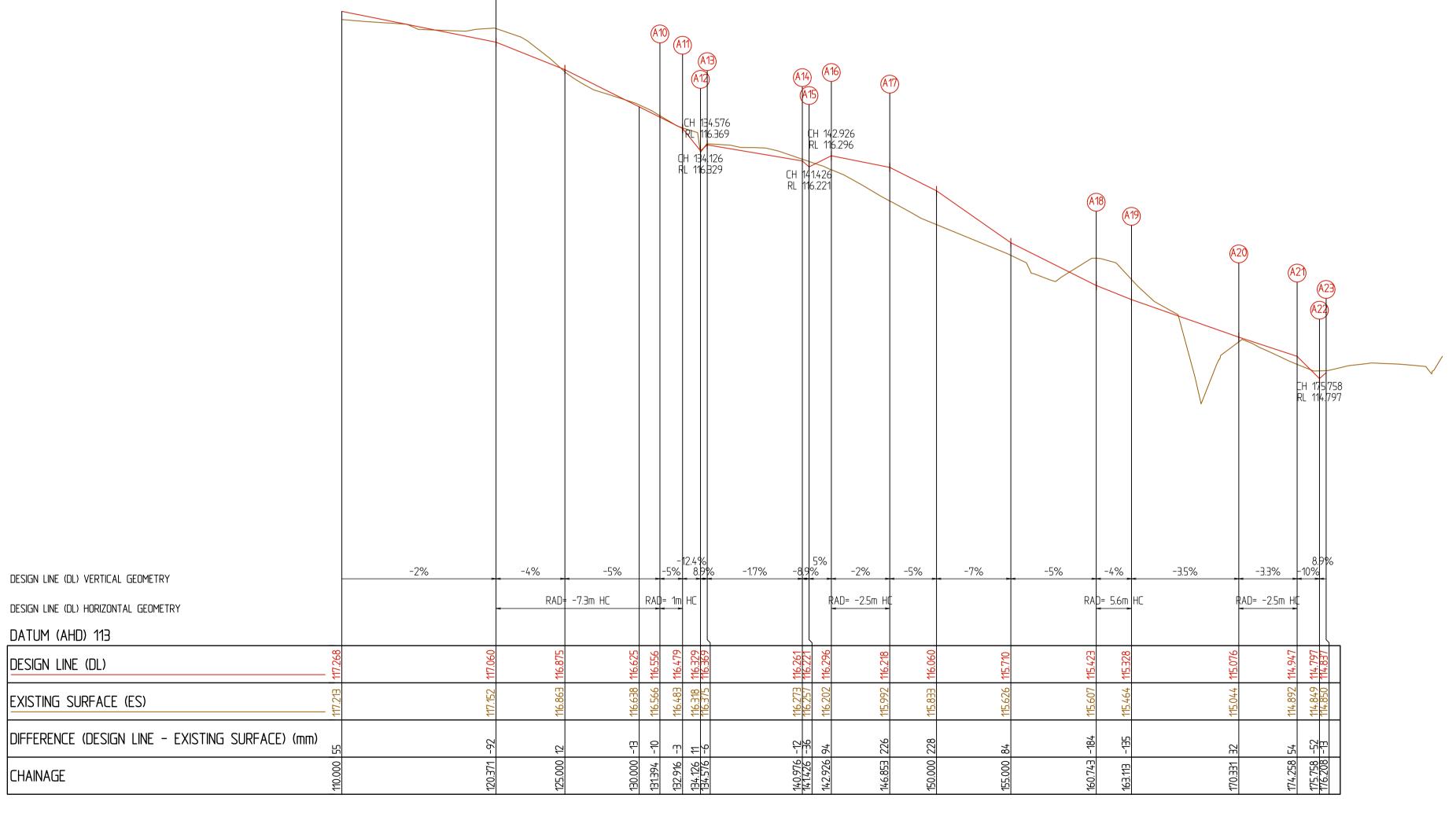
City Council





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FOOTPATH UPGRADE W	ORKS SCALE H1:200/V1:20	No. OF SHEE  DATE STAR  A1  12	19
LINCOLN ROAD CROYDON, VIC, 3136 DRAWING TITLE	SITE ID & JOB No. S69900- DRAWING No.	290935	REV.
	- FRONT OF FOOTPATH 'A' (FOFP A)	13	D





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



<b>DETAILED DESI</b>	GN					
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D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC		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.
С	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
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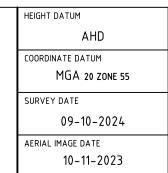
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LONGITUDINAL SECTION - FRONT OF FOOTPATH 'A' (FOFP A)		$\cup \cup \cup \bot$	+	$\cup$
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	D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC		DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF ANY WORK OR MAKING OF ANY SH DRAWINGS WHICH MUST BE SUBMITTED <u>and approved</u> prior to any manufactur
L						CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND

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City Council

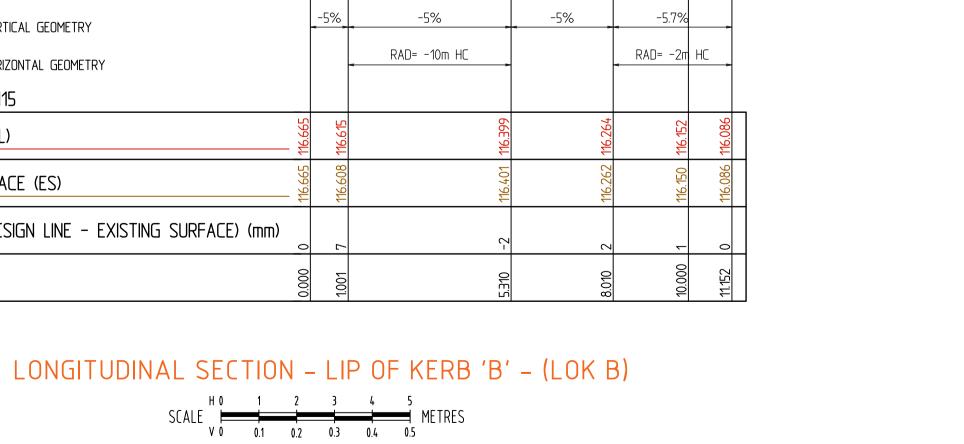


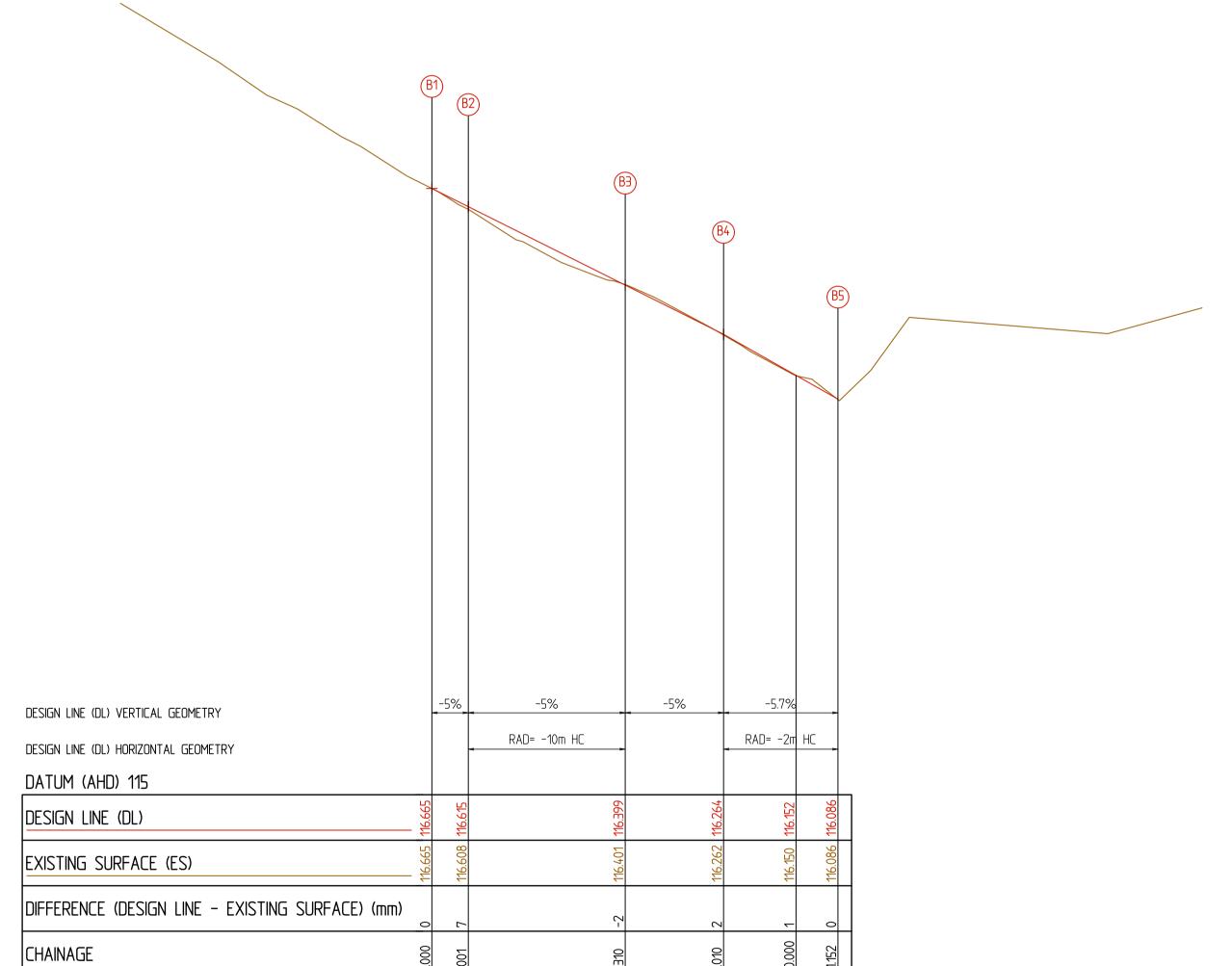




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DETAILED DESIGN
NOT FOR CONSTRUCTION







WARNING

WARNING BEWARE UNDERGROUND SERVICES

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SERVICES ARE SHOWN

DETAILED DESIGN
NOT FOR CONSTRUCTION LONGITUDINAL SECTIONS - LIP OF KERB 'C' (LOK C)

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

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)	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	КГ	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.	
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4	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.	l
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DESIGN LINE (DL) VERTICAL GEOMETRY

DESIGN LINE (DL) HORIZONTAL GEOMETRY

DATUM (AHD) 114

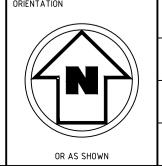
DESIGN LINE (DL)

CHAINAGE

EXISTING SURFACE (ES)

DIFFERENCE (DESIGN LINE - EXISTING SURFACE) (mm)







-4.5%

RAD= 10m HC

-4.2%

CLIENT	DESIGNED	DRAWN
MAROONDAH CITY COUNCIL	MC / K0	:   MC
PROJECT TITLE	CHECKED	No. OF SHEETS
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CROYDON, VIC, 3136	S69900-29	90935
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	$I$ $C \cap 1$	
ILONGITUDINAL SECTIONS - LIP OF KERB 'C' (LOK C)	I () ()	

#### CROSS SECTION LEGEND CODE REFERENCE FOFP FRONT OF FOOTPATH BACK OF FOOTPATH INVERT OF SPOON DRAIN BACK OF SPOON DRAIN IOTD INVERT OF TABLE DRAIN LOK LIP OF KERB BACK OF KERB

CENTRELINE (FOFP A) DATA

DESIGN - FINISHED SURFACE (FS)

SURVEY - EXISTING SURFACE (ES)

DIFFERENCE (ES - FS) (mm)

X = 348923.944Y = 5816813.493

DATUM (AHD) 120.0

Z = 121.371

OFFSET

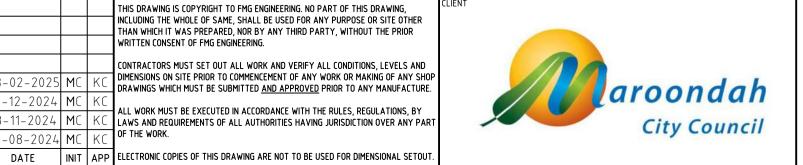
DETAILED DESIGN - ISSUED FOR REVIEW

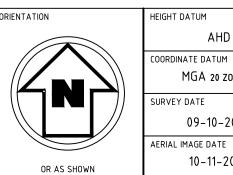
FUNCTIONAL DESIGN - ISSUED FOR REVIEW

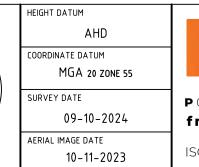
FUNCTIONAL DESIGN - ISSUED FOR REVIEW

DESCRIPTION

CONCEPT DESIGN - ISSUED FOR REVIEW





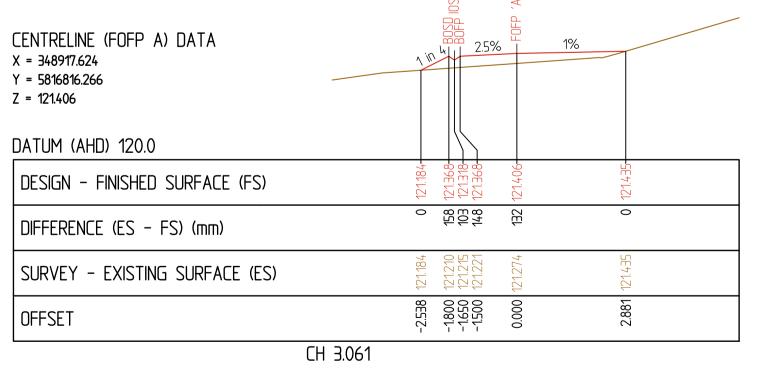




No. OF SHEETS 12-07-2024

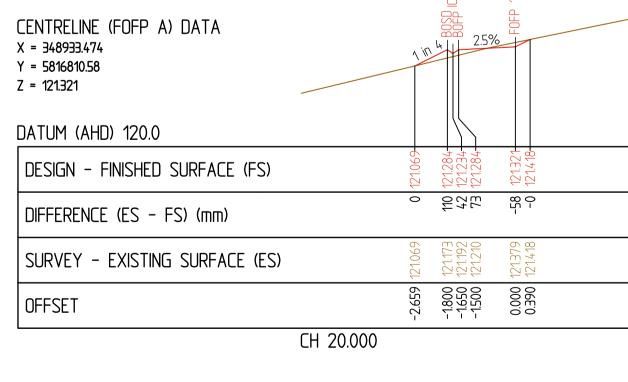
DETAILED DESIGN
NOT FOR CONSTRUCTION

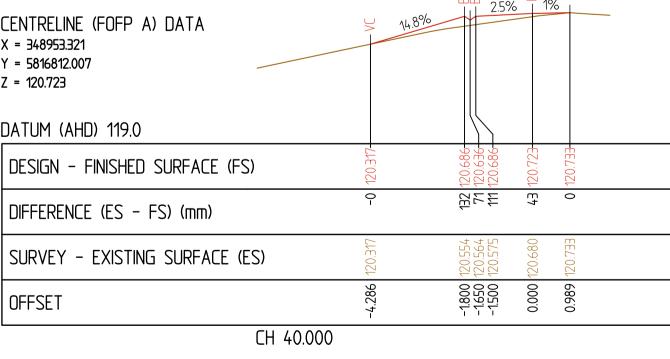
### CROSS SECTIONS - REFERENCE LINE (OFFSET 0.00) - FRONT OF FOOTPATH 'A' - (FOFP A)

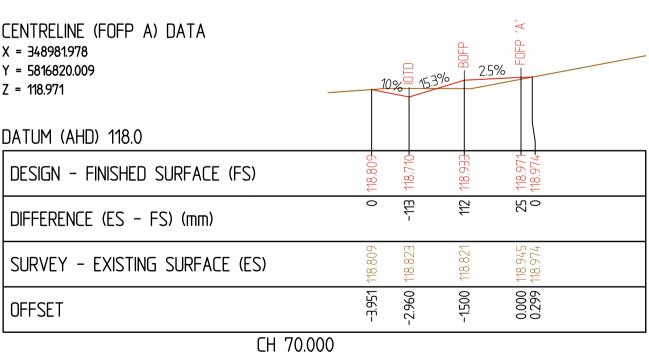


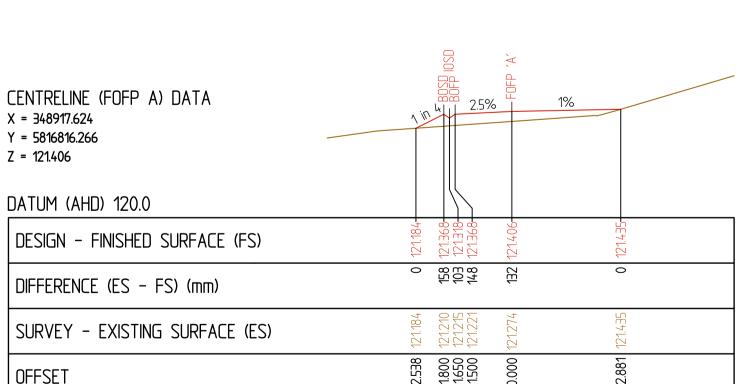
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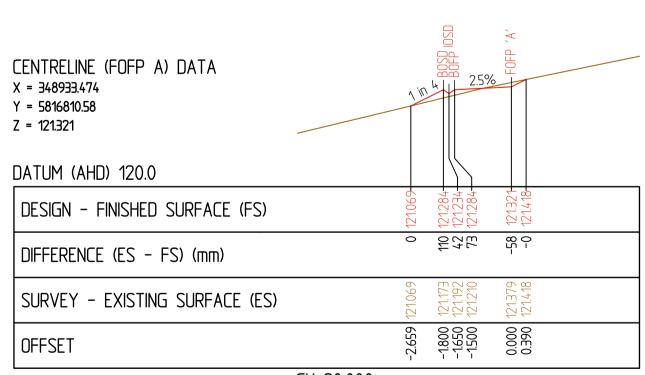
WRITTEN CONSENT OF FMG ENGINEERING.

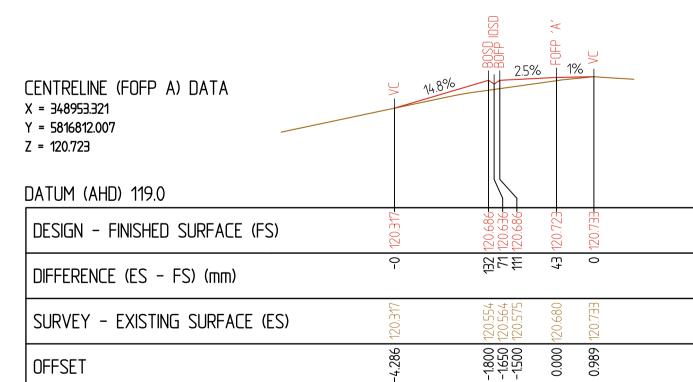




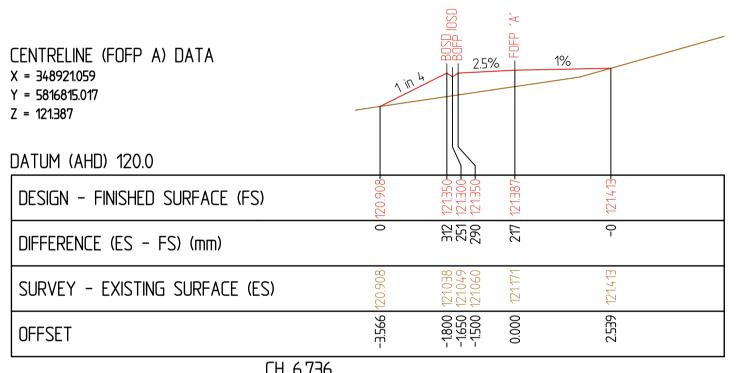


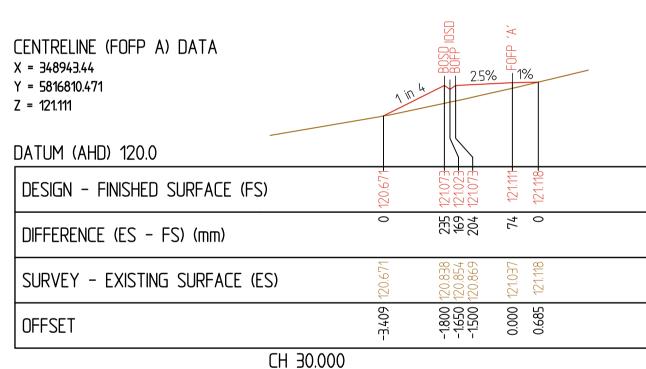






JATUM (AHU) 117.0				
DESIGN - FINISHED SURFACE (FS)		117.878	117.983-	
DIFFERENCE (ES - FS) (mm)		РŢ	-54 0	
SURVEY - EXISTING SURFACE (ES)		117.878	117.983	
OFFSET		-1510 -1.500	0.000	
	CH 85.149			•
ENTRELINE (FOFP A) DATA		£	JFP 'A'	





CH 30.808

232 166 200 78

CENTRELINE (FOFP A) DATA

DESIGN - FINISHED SURFACE (FS)

SURVEY - EXISTING SURFACE (ES)

DIFFERENCE (ES - FS) (mm)

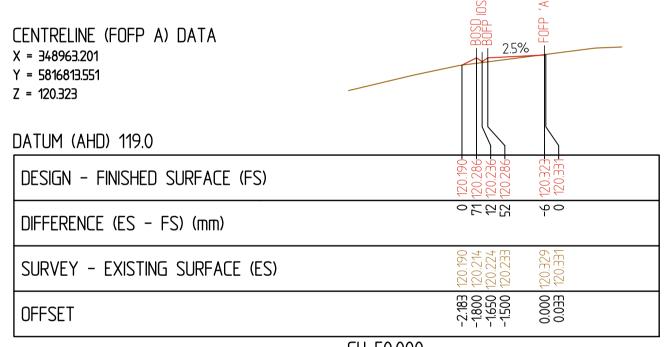
X = 348944.239

Y = 5816810.587

DATUM (AHD) 120.0

Z = 121.091

OFFSET



CENTRELINE (FOFP A) DATA

DESIGN - FINISHED SURFACE (FS)

SURVEY - EXISTING SURFACE (ES)

DIFFERENCE (ES - FS) (mm)

X = 348966.901

Y = 5816814.129

DATUM (AHD) 119.0

Z = 120.173

OFFSET

CENTRELINE (FOFP A) DATA  X = 348996.986  Y = 5816820.84  Z = 117.913	2.5%	FOFP 'A'
DATUM (AHD) 117.0		
DESIGN - FINISHED SURFACE (FS)	117.878-	117.983-
DIFFERENCE (ES - FS) (mm)	ĄΨ	-54 0
SURVEY - EXISTING SURFACE (ES)	117.878	117.983
OFFSET	-1510 -1.500	0.000

CENTRI X = 348° Y = 5816 Z = 121.3	6815.017	7 in 1	2.5%	, V. d404 1	%	
DATUM	1 (AHD) 120.0					
DESIG	6N - FINISHED SURFACE (FS)	120.908-	121.350- 121.300- 121.350-	121.387-	121.413-	
DIFFE	RENCE (ES - FS) (mm)	0	312 251 290	217	0-	
SURV	'EY - EXISTING SURFACE (ES)	120.908	121.038 121.049 121.060	121.171	121.413	
OFFSE	ET	-3.566	-1.800 -1.650 -1.500	0.000	2.539	

CH 10.000

288 227 266 175

CENTRELINE (FOFP A) DATA  X = 348996.986  Y = 5816820.84  Z = 117.913	
DATUM (AHD) 117.0	
DESIGN - FINISHED SURFACE (FS)	
DIFFERENCE (ES - FS) (mm)	
SURVEY - EXISTING SURFACE (ES)	

CENTRELINE (FOFP A) DATA

DESIGN - FINISHED SURFACE (FS)

SURVEY - EXISTING SURFACE (ES)

DIFFERENCE (ES - FS) (mm)

X = 349001.774

Z = 117.768

OFFSET

Y = 5816820.063

DATUM (AHD) 117.0

X = 348921.059 Y = 5816815.017 Z = 121.387	1 in	2.59	6	1%
DATUM (AHD) 120.0				
DESIGN - FINISHED SURFACE (FS)	120.908-	121.350- 121.300- 121.350-	121.387-	121.413-
DIFFERENCE (ES - FS) (mm)	0	312 251 290	217	0-
SURVEY - EXISTING SURFACE (ES)	120.908	121.038 121.049 121.060	121.171	121.413
OFFSET	-3.566	-1.800 -1.650 -1.500	0.000	2.539
CH 6.736				

X = 348943.44 Y = 5816810.471 Z = 121.111	2.5% 1%
DATUM (AHD) 120.0	
DESIGN - FINISHED SURFACE (FS)	120.67+ 121.073- 121.073- 121.111+ 121.118-
DIFFERENCE (ES - FS) (mm)	0 235 169 204 74 7
SURVEY - EXISTING SURFACE (ES)	120.671 120.838 120.869 121.037 121.037
OFFSET	-3.409 -1.800 -1.500 0.000
CH 30.00	00

= 348963.201 = 5816813.551 = 120.323	2.5%
IATUM (AHD) 119.0	
DESIGN - FINISHED SURFACE (FS)	120.190- 120.286- 120.236- 120.323- 120.323-
DIFFERENCE (ES - FS) (mm)	0 12 12 12 0
SURVEY - EXISTING SURFACE (ES)	120.190 120.214 120.224 120.233 120.329
OFFSET	-2.183 -1.800 -1.650 -1.500 0.000
	CH 50.000

CH 53.745

-0 61 -7 26 67 67

CENTRELINE (FOFP A) DATA  X = 348996.986  Y = 5816820.84  Z = 117.913	25%
DATUM (AHD) 117.0	
DESIGN - FINISHED SURFACE (FS)	117.878- 117.876- 117.913- 117.983-
DIFFERENCE (ES - FS) (mm)	0- E- -54-
SURVEY - EXISTING SURFACE (ES)	117.878 117.879 117.967 117.983

CH 90.000

YOU DIG

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 (FOFP A) DATA  X = 348917.624  Y = 5816816.266  Z = 121.406  DATUM (AHD) 120.0	2.5%
DESIGN - FINISHED SURFACE (FS)	121.184-121.368-121.406-121.435-
DIFFERENCE (ES - FS) (mm)	0 4 4 8 3 0 0
SURVEY - EXISTING SURFACE (ES)	1.184 1.216 1.221 1.274 1.435

CENTRELINE (FOFP A) DATA  X = 348933.474  Y = 5816810.58  Z = 121.321	2.5%
DATUM (AHD) 120.0	
DESIGN - FINISHED SURFACE (FS)	121.284- 121.284- 121.284- 121.284- 121.321- 121.418-
DIFFERENCE (ES - FS) (mm)	0 110 42 73 -58 -0
SURVEY - EXISTING SURFACE (ES)	121.173 121.173 121.192 121.210 121.379
OFFSET	-2.659 -1.800 -1.650 -1.500 0.390

CENTRELINE (FOFP A) DATA  X = 348953.321  Y = 5816812.007  Z = 120.723	¥ 14.8%	2.5% 1%
DATUM (AHD) 119.0		
DESIGN - FINISHED SURFACE (FS)	120.317-	120.686- 120.636- 120.686- 120.723- 120.733-
DIFFERENCE (ES - FS) (mm)	0-	25 11 14 0
SURVEY - EXISTING SURFACE (ES)	120.317	120.554 120.564 120.575 120.680
OFFSET	-4.286	-1.800 -1.650 -1.500 0.000

CENTRELINE (FOFP A) DATA  X = 348981.978  Y = 5816820.009  Z = 118.971	10% 15.3% 2.5%
DATUM (AHD) 118.0	
DESIGN - FINISHED SURFACE (FS)	118.809- 118.710- 118.933- 118.974-
DIFFERENCE (ES - FS) (mm)	0 -113 0 0
SURVEY - EXISTING SURFACE (ES)	118.823 118.821 118.945 118.974
OFFSET	3.951 2.960 1.500 0.299

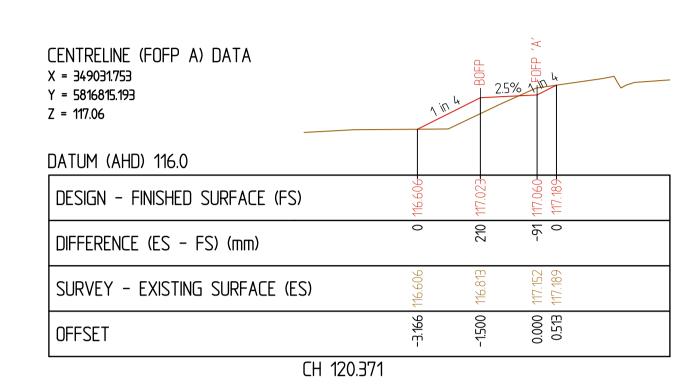
NTATION	HEIGHT DATUM
	AHD
	COORDINATE DATUM
	MGA 20 ZONE 55
\ <b>                                    </b>	SURVEY DATE
	09-10-2024
	AERIAL IMAGE DATE
	10-11-2023

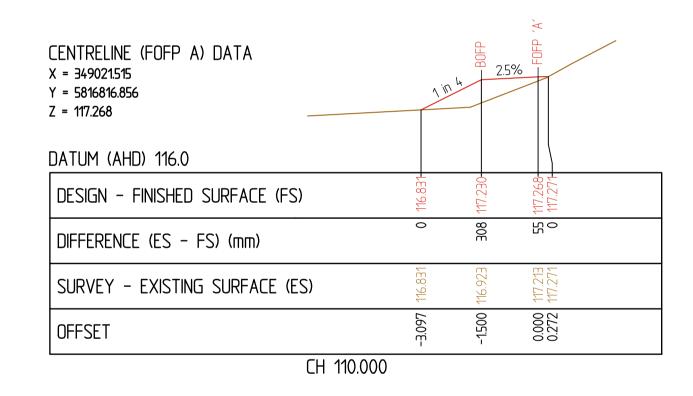
YEARS	MELBOURNE SYDNEY BRISBANE
ENGINEERING FORWARD THINKING P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122 fmgengineering.com.au   P 1300 975 878   ABN 9	58 083 071 185
ISO 9001 Quality Management System   ISO 45001 OH&S Mana	gement System

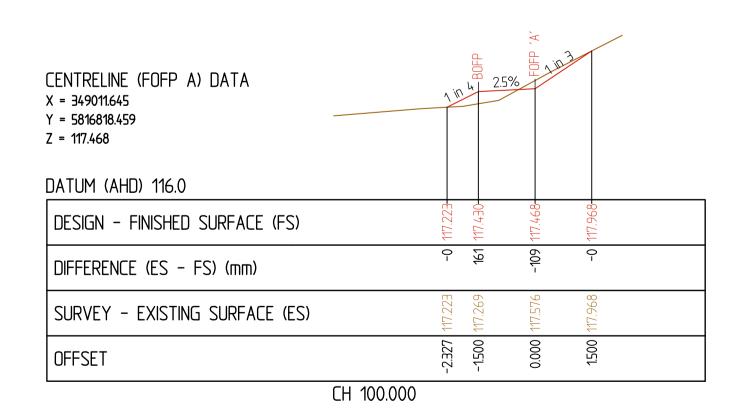
CLIENT	DESIGNED	
MAROONDAH CITY COUNCIL		MC / KC
PROJECT TITLE	CHECKED	
FOOTPATH UPGRADE WORKS		KC
	SCALE	
SITE ADDRESS	H1:2007	/V1:100@A1
LINCOLN ROAD	SITE ID & .	JOB No.
CROYDON, VIC. 3136	S6'	9900-290
DRAWING TITLE	DRAWING	No.
		$C \cap 1 \Box$
CROSS SECTIONS - FRONT OF FOOTPATH 'A' - (	[H 3.061 A – CH 90.000 A]	

#### CROSS SECTION LEGEND

CODE	REFERENCE
FOFP	FRONT OF FOOTPATH
BOFP	BACK OF FOOTPATH
IOSD	INVERT OF SPOON DRAIN
BOSD	BACK OF SPOON DRAIN
IOTD	INVERT OF TABLE DRAIN
LOK	LIP OF KERB
BOK	BACK OF KERB







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POSITION SHOULD BE PROVEN ON SITE. NO
GUARANTEE IS GIVEN THAT ALL EXISTING
SERVICES ARE SHOWN

WARNING

CENTRELINE (FOFP A) DATA  X = 349056.541  Y = 5816835.329  Z = 115.423	) XO XO Z.22%	2.5	× del 4	
DATUM (AHD) 115.0				
DESIGN - FINISHED SURFACE (FS)	115.447- 115.442- 115.402- 115.512- 115.512-	115.467	115.423	
DIFFERENCE (ES - FS) (mm)	-0 2 -28 79 70	-178	-184 0	
SURVEY - EXISTING SURFACE (ES)	115.44.7 115.439 115.430 115.433 115.442	115.639	115.607	
OFFSET	-4.750 -4.450 -3.960 -3.850	-1.500	0.000	
CH 160.7	43			

CENTRELINE (FOFP A) DATA  X = 349054.573  Y = 5816824.768  Z = 116.06	Ž) XO 2.1%	2.5	% dd0d 7 in 4	
DATUM (AHD) 115.0				
DESIGN - FINISHED SURFACE (FS)	115.972- 115.939- 116.049- 116.049-	116.098	116.060-	
DIFFERENCE (ES - FS) (mm)	20 -71 -100 103	221	228	
SURVEY - EXISTING SURFACE (ES)	115.972 115.959 115.950 115.946	115.877	115.833	
OFFSET	-4.750 -4.450 -4.000 -3.960 -3.850	-1500	0.000	
CH 150.000				

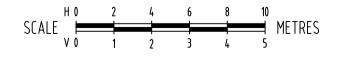
CENTRELINE (FOFP A) DATA  X = 349040.084  Y = 5816820.756  Z = 116.556		2.5%	× 6 3%	BOK LOK 'B'
DATUM (AHD) 116.0				
DESIGN - FINISHED SURFACE (FS)		116.589 <del>-</del> 116.518-	116.556-	116.49 <del>3</del> 116.49 <del>3</del> 116.42 <del>3</del> 116.428 116.427
DIFFERENCE (ES - FS) (mm)		0- 6L-	-10	-15 -77- 7 0
SURVEY - EXISTING SURFACE (ES)		116.589	116.566	116.508 116.490 116.460 116.427 116.427
OFFSET		-1.784 -1.500	0.000	2.050 2.160 2.200 2.650 2.950 2.954
	CH 131.394			

CENTRELINE (FOFP A) DATA  X = 349061.595  Y = 5816843.408  Z = 115.076	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2.5	5% 4.	
DATUM (AHD) 114.0				
DESIGN - FINISHED SURFACE (FS)	114.978- 114.963- 115.013- 115.013-	115.113-	115.076-	
DIFFERENCE (ES - FS) (mm)	- - - - - - - - - - - - - - - - - - -	113	32 -0	
SURVEY - EXISTING SURFACE (ES)	114.979 114.978 114.977 114.976	115.000	115.044	
OFFSET	-4.750 -4.450 -4.000 -3.960 -3.850	-1.500	0.000	
CH 170.33	1			

CENTRELINE (FOFP A) DATA  X = 349039.637  Y = 5816819.438  Z = 116.625		2.5%	FOFP 'A'	1.8% <sup>(A)</sup>
DATUM (AHD) 116.0				
DESIGN - FINISHED SURFACE (FS)		116.615-	116.625	116.588 116.588 116.518 116.527
DIFFERENCE (ES - FS) (mm)		0-	-13	-20 -19 -128 -16 -0
SURVEY - EXISTING SURFACE (ES)		116.615	116.638	116.609 116.607 116.502 116.527
OFFSET		-1.607 -1.500	0.000	2.050 2.160 2.200 2.650 2.950
•	CH 130.000			

CENTRELINE (FOFP A) DATA  X = 349057.453  Y = 5816837.498  Z = 115.328	X01 X09 2%	2.5	5% Am h	
DATUM (AHD) 114.0				
DESIGN - FINISHED SURFACE (FS)	115.256- 115.250- 115.210- 115.320- 115.320-	115.366-	115.328-	
DIFFERENCE (ES - FS) (mm)	0 -20 -82 27 21	-65	-135	
SURVEY - EXISTING SURFACE (ES)	115.256 115.270 115.291 115.293 115.298	115.431	115.464	
OFFSET	-4.750 -4.450 -4.000 -3.960 -3.850	-1.500	0.000	
CH 163.114				

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



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	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	КГ	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	
С	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024		KC	DRAWINGS WHICH MUST BE SUBMITTED <u>AND APPROVED</u> PRIOR TO ANY MANUFACTURE.  ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY	
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART	
A	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.	
REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.	



ORIENTATION
OR AS SHOWN

	HEIGHT DATUM
	AHD
	COORDINATE DATUM
	MGA 20 ZONE 55
')	SURVEY DATE
/	09-10-2024
	AERIAL IMAGE DATE
	10_11_2023

YEARS	ADELAIDE MELBOURNE SYDNEY BRISBANE
<b>P</b> 03 9815 7600 ENGINEERING FORWARD THINKING 2 Domville Ave, Hawthorn VIC 3122	
fmgengineering.com.au   P 1300 975 878   ABN 9	58 083 071 185
ISO 9001 Quality Management System   ISO 45001 OH&S Mana	gement System

LLIENT		DESIGNED	DRAWN	
MAROONDAH CITY COUNCIL		MC / KC		MC
PROJECT TITLE		CHECKED	No. OF SHEET	S
FOOTPATH UPGRADE WORKS		КС		19
		SCALE	DATE START	ED
SITE ADDRESS		H1:200/V1:100@A1	12-	07-2024
LINCOLN ROAD		SITE ID & JOB No.		REV.
CROYDON, VIC, 3136		S69900-290	0935	
DRAWING TITLE		DRAWING No.		
		$C \cap 1C$		$\cap$ $\Box$
CROSS SECTIONS - FRONT OF FOOTPATH 'A' - CH 100.000 A - CH 170.33	31 A			$\cup$



WARNING

### PIPE DIAMETER (mm) —— 375*ø* —— **<** 150¢ ----- 150φ -----GRADE ----- 1 in 100 -----<---- 1 in 100 ----> — 1 in 100 — <1 in 100> DATUM (AHD) DEPTH TO INVERT OF PIPE DESIGN INVERT LEVEL (IL) FINISHED SURFACE LEVEL (FS) EXISTING SURFACE LEVEL (ES) PIPE CHAINAGE

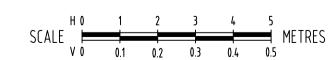
### DRAINAGE LONGITUDINAL SECTIONS

(7.163)

(3.722)

DRAINAGE LONGITUDINAL SECTIONS

ADELAIDE MELBOURNE SYDNEY



HEIGHT DATUM

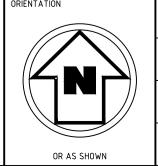
CLIENT	DESIGNED	DRAWN	
MAROONDAH CITY COUNCIL	MC / KC		MC
PROJECT TITLE	CHECKED	No. OF SHEET	S
FOOTPATH UPGRADE WORKS	КС		19
	SCALE	DATE STARTE	D
SITE ADDRESS	H1:100/V1:10@A1	12-	07-2024
	SITE ID & JOB No. S69900-290		REV.
CROYDON, VIC, 3136		7777	
	DRAWING No.		

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					CONTRACTORS MUST SET OUT ALL WORK AND VERIFY ALL CONDITIONS, LEVELS AND
D	DETAILED DESIGN - ISSUED FOR REVIEW	28-02-2025	MC	IKI	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.
C	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	17-12-2024	MC	KC	ALL WORK MUST BE EXECUTED IN ACCORDANCE WITH THE RULES, REGULATIONS, BY
В	FUNCTIONAL DESIGN - ISSUED FOR REVIEW	13-11-2024	MC	KC	LAWS AND REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION OVER ANY PART
A	CONCEPT DESIGN - ISSUED FOR REVIEW	06-08-2024	MC	KC	OF THE WORK.
REV	DESCRIPTION	DATE	INIT	APP	ELECTRONIC COPIES OF THIS DRAWING ARE NOT TO BE USED FOR DIMENSIONAL SETOUT.



(Reach Length)



(3.967)

AHD DINATE DATUM MGA 20 ZONE 55	YEARS WELBOURNE SYDNEY BRISBANE
09-10-2024	P 03 9815 7600 2 Domville Ave, Hawthorn VIC 3122  fmgengineering.com.au   P 1300 975 878   ABN 58 083 071 185
AL IMAGE DATE 10-11-2023	ISO 9001 Quality Management System   ISO 45001 OH&S Management System