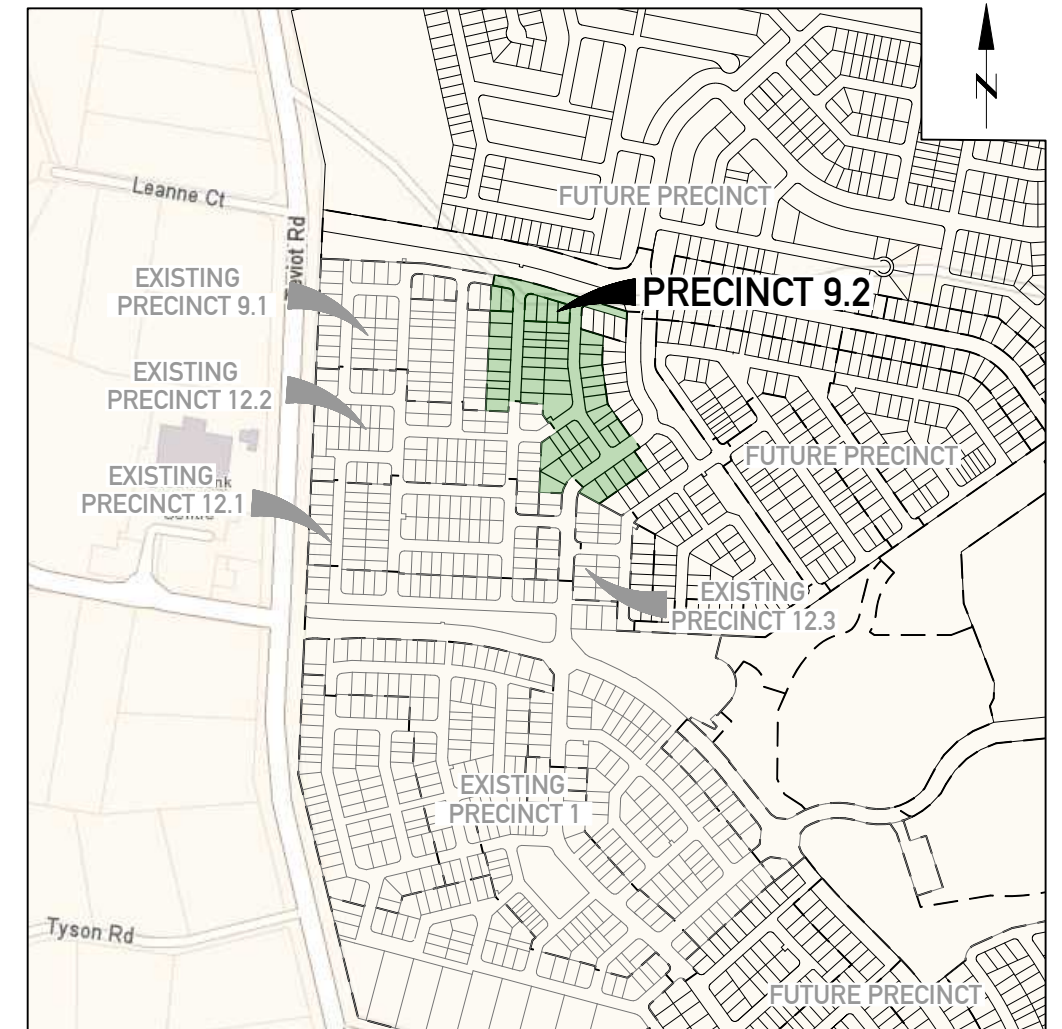


# EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD



LOCALITY PLAN  
Scale 1:5000



SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C001	COVER SHEET
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN
C100	ROADWORKS AND DRAINAGE LAYOUT - SHEET 1 OF 2
C101	ROADWORKS AND DRAINAGE LAYOUT - SHEET 2 OF 2
C200	BULK EARTHWORKS LAYOUT - SHEET 1 OF 2
C201	BULK EARTHWORKS LAYOUT - SHEET 2 OF 2
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2
C300	ROADWORKS NOTES AND DETAILS
C310	MOSS STREET LONGITUDINAL SECTION
C311	MOSS STREET CROSS SECTIONS - SHEET 1 OF 2
C312	MOSS STREET CROSS SECTIONS - SHEET 2 OF 2
C313	RUSSETT STREET LONGITUDINAL SECTION
C314	RUSSETT STREET CROSS SECTIONS
C315	BOTANICA ROAD LONG & CROSS SECTIONS
C316	KESSELS BOULEVARD LONG & CROSS SECTIONS
C317	DRIVEWAY 5 LONG & CROSS SECTIONS
C318	DRIVEWAY 5 LONG & CROSS SECTIONS
C320	INTERSECTION DETAILS LAYOUT
C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C331	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C400	STORMWATER CATCHMENT LAYOUT
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 3
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 3
C412	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 3
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS
C440	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 1
C451	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1 OF 2
C511	SEWERAGE LAYOUT PLAN - SHEET 2 OF 2
C520	SEWERAGE LONG SECTIONS - SHEET 1 OF 3
C521	SEWERAGE LONG SECTIONS - SHEET 2 OF 3
C522	SEWERAGE LONG SECTIONS - SHEET 3 OF 3
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C700	EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE
C701	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE
C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2
C711	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2
C901	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2

### GENERAL NOTES

- ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
- ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
- ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
- THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
- CONSTRUCTION CERTIFICATION REQUIREMENTS SUCH AS PAVEMENT PROOF ROLLS ETC. ARE TO BE AS PER THE LOGAN CITY COUNCIL SPECIFICATION.
- THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
- THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING A CONSTRUCTION MANAGEMENT PLAN FOR THE SITE TO BE ACCEPTED BY EDQ. THIS PLAN IS TO INCLUDE ALL ITEMS AS LISTED IN THE DECISION NOTICE AS A MINIMUM.

### NOISE

- ALL PLANT AND EQUIPMENT SHALL BE CONTROLLED TO MINIMISE NOISE EMISSION IN ACCORDANCE WITH AS2436 (GUIDE TO NOISE CONTROL ON CONSTRUCTION, MAINTENANCE AND DEMOLITION). THE SITE WORKING HOURS SHOULD BE IN ACCORDANCE WITH LOCAL AUTHORITY REQUIREMENTS. WHERE NOT SPECIFIED THE HOURS SHALL BE:

MONDAY - SATURDAY 7:00am to 6:00pm  
SUNDAY OR PUBLIC HOLIDAY NO WORK PERMITTED

### PRE-CONSTRUCTION & APPROVALS

- NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE FOR ARRANGING WITH THE APPROPRIATE AUTHORITY FOR LOCATING EXISTING SERVICES AND FOR ANY MODIFICATIONS TO EXISTING SERVICES REQUIRED AS A RESULT OF THE WORKS.
- THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL EXISTING SERVICES FROM DAMAGE.
- ANY WORKS DAMAGED AS A RESULT OF CONSTRUCTION ARE TO BE REINSTATED TO RELEVANT AUTHORITY'S REQUIREMENTS AT THE CONTRACTORS COST.
- FINISHED SURFACE LEVELS ARE TO BE GRADED UNIFORMLY BETWEEN LEVELS INDICATED ON THE DRAWINGS.

### WORKPLACE HEALTH & SAFETY

- THE CONTRACTOR SHALL BE THE PRINCIPAL CONTRACTOR AS DESIGNATED BY THE WORK HEALTH AND SAFETY ACT (2011).
- THE CONTRACTOR SHALL PREPARE AND IMPLEMENT A WORKPLACE HEALTH AND SAFETY PLAN AS REQUIRED BY THE WORK HEALTH AND SAFETY ACT (2011).

### SETOUT NOTES

- CO-ORDINATE SETOUT PROVIDED ON THESE DRAWINGS IS BASED ON A CO-ORDINATE BASE PROVIDED ON THE DETAIL SURVEY DRAWING 7598 S 02 DTH, PREPARED BY SAUNDERS HAVILL GROUP. REFERENCE MARKS AND CORRESPONDING CO-ORDINATES ARE PROVIDED ON DRAWING C002.
- THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).

### FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		



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PROJECT MANAGER S STEINHOFER	
PROJECT DIRECTOR P Brady	

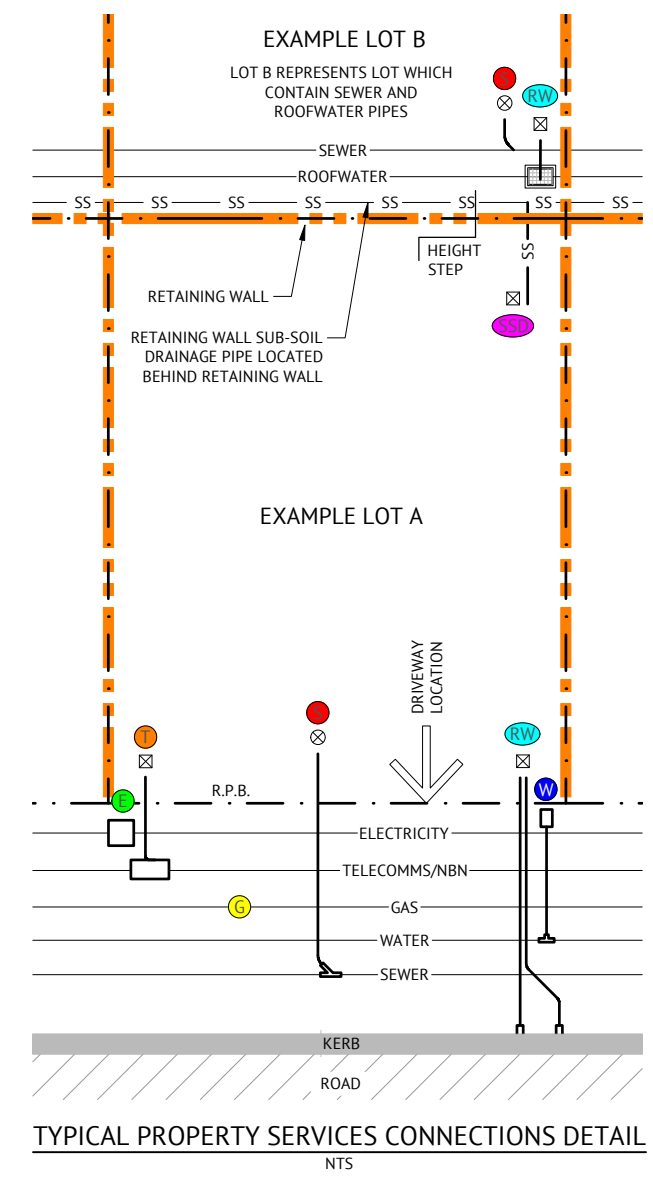
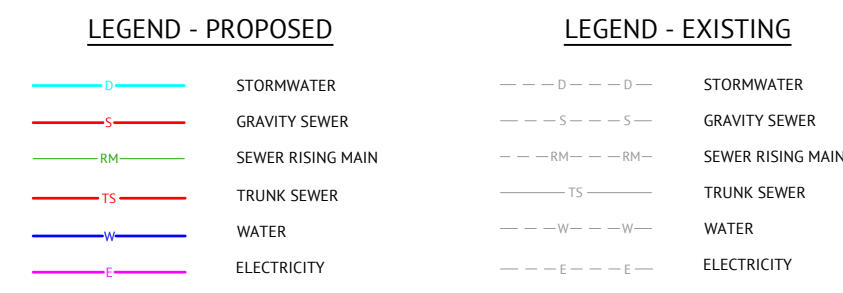
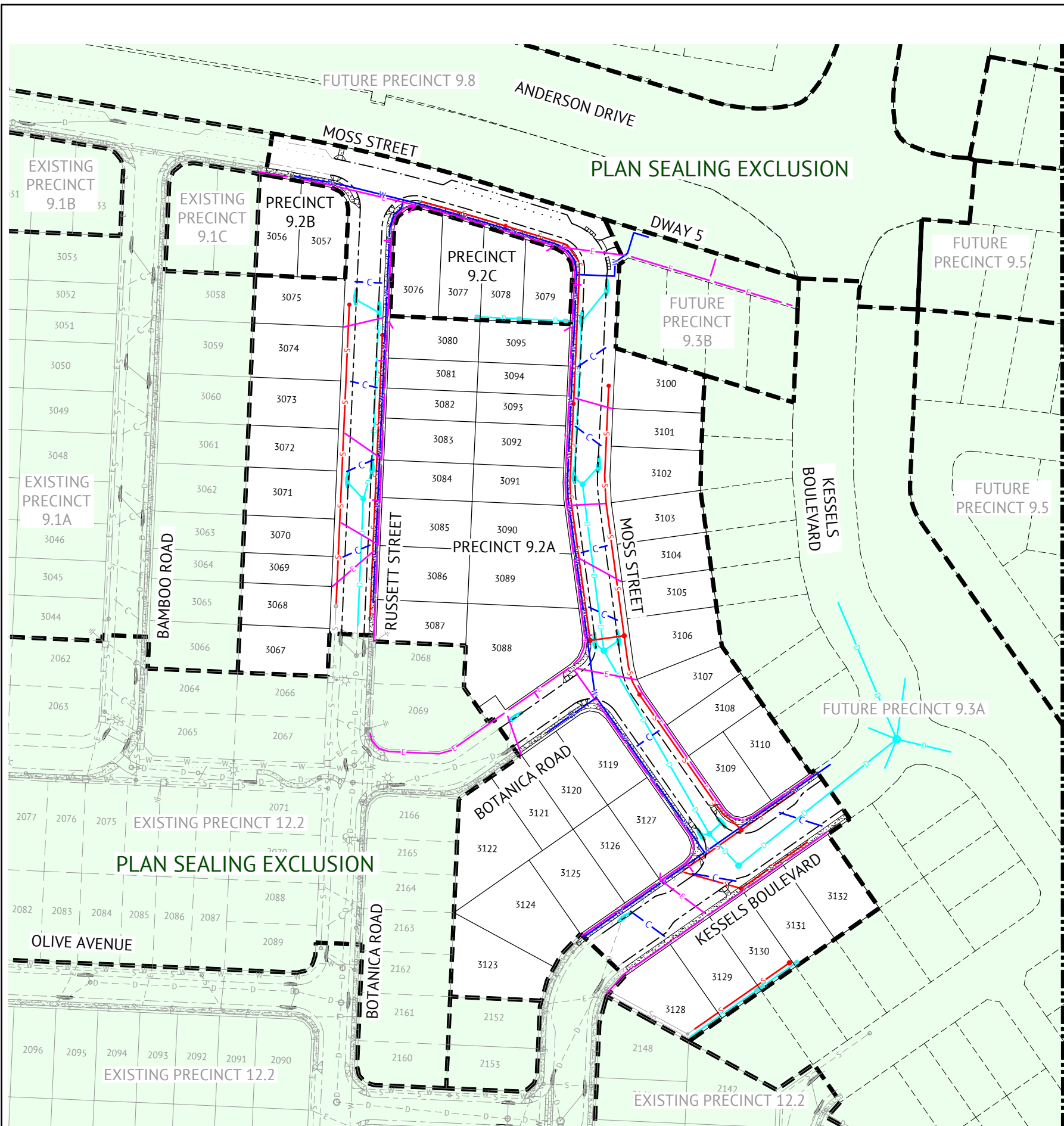
SCALE
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SCALE 1:5000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT	MIRVAC QLD PTY LTD
PROJECT	EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	COVER SHEET

JOB CODE	MIR009-02
SHEET NUMBER	C001
REV	B







- WATER** - POLY SERVICE FROM WATER MAIN, METER BOX & COVER INSTALLED. BUILDER TO MAKE APPLICATION TO LOGAN CITY COUNCIL FOR METER ASSEMBLY SUPPLY AND INSTALLATION. WHERE WATER METER IS LOCATED BEHIND RETAINING WALL, 25mm POLYPIPE WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "WATER".
- SEWER** - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 40Ø ORANGE PVC CONDUIT SECURELY TAPED TO H.W. STAKE AT SURFACE (BURIED TO CAPPED PIPE). CONDUIT LABELLED "SEWER."
- ROOFWATER** - CONNECTION LOCATION CAN BE EITHER FRONT OF LOT VIA KERB ADAPTOR OUTLET TO ROAD, OR REAR OF LOT INTO ROOFWATER DRAINAGE PIPE VIA PIT. CAPPED PVC Ø100 PIPES (BURIED MAX 1.5m) MARKED WITH 900x50x25 HW STAKE LABELLED "ROOFWATER."
- RETAINING WALL SUB-SOIL DRAINAGE** - OUTLET POINT TO LOT FOR RETAINING WALL SUB-SOIL DRAINAGE TO BE CONNECTED TO YARD DRAINAGE BY BUILDER. Ø100 NON-SLOTTED AGG PIPE CAPPED AND TERMINATED 200m ABOVE SURFACE. PVC DUCT TAPED TO 900x50x25 HW STAKE LABELLED "RETAINING WALL SUBSOIL OUTLET".
- TELECOMMUNICATIONS/NBN** - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".
- ELECTRICITY** - ELECTRICITY PILLAR EXISTS IN ROAD VERGE. BUILDER TO MAKE APPLICATION WITH ENERGY PROVIDER FOR SERVICE INSTALLATION TO LOT. WHERE ELECTRICITY PILLAR IS LOCATED BEHIND RETAINING WALL, CONDUIT WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "ELECTRICITY".
- GAS** - GAS MAIN EXISTS IN ROAD VERGE. BUILDER/HOME OWNER TO MAKE APPLICATION TO GAS PROVIDER FOR SERVICE INSTALLATION TO LOT.
- RETAINING WALL**
- SERVICE TERMINATION POINT MARKER**. 900x50x25 HW STAKE, OR 40Ø ORANGE PVC CONDUIT STAKE

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

REVISIONS

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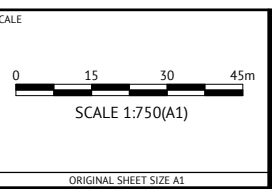
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RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**OVERALL SERVICES LAYOUT**

JOB CODE  
**MIR009-02**

SHEET NUMBER	REV
<b>C003</b>	<b>B</b>

**DESIGN HAZARD NOTES:**

- PREMISE, HAVING BEEN COMMISSIONED TO CARRY OUT DETAILED DESIGN AND DOCUMENTATION OF THESE WORKS, CONFIRM THAT THE PREMISE DRAWING SET HAS BEEN INTERNALLY REVIEWED FOR DESIGN SAFETY IN ACCORDANCE WITH SECTION 22 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD.
- THIS REPORT SUMMARISES AN INTERNAL REVIEW OF PREMISE'S DETAILED DESIGN DRAWINGS FOR DESIGN SAFETY.
- THIS REPORT IN NO WAY RELIEVES THE PRINCIPAL, CONTRACTOR OR ANY OTHER PARTY OF THEIR OWN OBLIGATIONS AND RESPONSIBILITIES UNDER THE WORK HEALTH AND SAFETY ACT 2011 QLD, INCLUDING (BUT NOT LIMITED TO) CONSULTATION WITH THE DESIGNER UNDER SECTION 294 OF THE ACT, THE PREPARATION OF SATISFACTORY SAFE WORK METHOD STATEMENTS AND DUTIES OF CARE.
- IT IS A REQUIREMENT UNDER SECTION 296 OF THE WORK HEALTH AND SAFETY ACT 2011 QLD, THAT A COPY OF THIS REPORT BE PROVIDED TO THE CONTRACTOR BY THE ENTITY COMMISSIONING THE WORK SHOWN OF THE PREMISE DRAWINGS.
- AS PER THE DEPARTMENT OF JUSTICE AND THE ATTORNEY-GENERAL- WORKPLACE HEALTH AND SAFETY QUEENSLAND, A WRITTEN REPORT IS NOT REQUIRED FOR DESIGNS THAT HAVE TYPICAL FEATURES.

CONSEQUENCE TABLE		
LEVEL	CONSEQUENCE	COST/TIME
5 - CATASTROPHIC	FATALITY OR MULTIPLE PERSONS ONSITE WITH LIFE THREATENING HEALTH EFFECT OR INABILITY TO CONTINUE	HUGE FINANCIAL OR TIME LOSS
4 - MAJOR	EXTENSIVE INJURIES, OR ONSET OF SEVERE OR LIFE THREATENING HEALTH EFFECT TO SINGLE PERSON ONSITE. MULTIPLE PERSONS WITH ONSET OF IRREVERSIBLE HEALTH EFFECTS. PERMANENT INJURY TO PERSON ONSITE.	MAJOR FINANCIAL OR TIME LOSS
3 - MODERATE	MEDICAL TREATMENT REQUIRED. IRREVERSIBLE HEALTH EFFECT TO A SINGLE PERSON. MULTIPLE PERSONS ONSITE WITH REVERSIBLE HEALTH EFFECTS.	HIGH FINANCIAL OR TIME LOSS
2 - MINOR	FIRST AID, SINGLE OR MULTIPLE INJURIES AMONGST PERSONS ONSITE. SINGLE PERSON ONSITE WITH MODERATE SHORT TERM REVERSIBLE HEALTH EFFECTS.	MEDIUM FINANCIAL OR TIME LOSS
1 - INSIGNIFICANT	NO INJURIES. OVER EXPOSURE TO A SINGLE PERSON ONSITE, BUT NO REPORTED HEALTH EFFECTS.	LOW FINANCIAL OR TIME LOSS

**CONSTRUCTION HAZARD NOTES:**

- UNDER THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011, THE WORK HEALTH AND SAFETY REGULATION 2011 AND OTHER LEGISLATION AND GUIDELINES, THE PRINCIPAL CONTRACTOR HAS SPECIFIC OBLIGATIONS IN RELATION TO THE SAFE OPERATION OF THE SITE AND OF THE WORKS.  
TO ASSIST THE PRINCIPAL CONTRACTOR IN COMPLYING WITH THESE OBLIGATIONS THE PROJECT DESIGNERS HAVE IDENTIFIED BY DRAWING NOTES, AREAS WHERE POTENTIAL HAZARDS MAY ARISE. THESE NOTES OR ADVICE, SHALL NOT NECESSARILY BE CONSIDERED COMPLETE AND ARE BASED UPON THE DESIGNERS' UNDERSTANDING OF THE SAFETY RISKS ASSOCIATED WITH THE WORKS.  
THESE NOTES OR ADVICE SHALL NOT RELIEVE THE PRINCIPAL CONTRACTOR OF ANY OBLIGATION UNDER THE RELEVANT LEGISLATION OR GUIDELINE. THE PRINCIPAL CONTRACTOR SHALL REMAIN RESPONSIBLE FOR THE PREPARATION OF AN APPROPRIATE WORK HEALTH SAFETY MANAGEMENT PLAN AND SAFE WORK METHOD STATEMENTS FOR THE SITE.
- PURSUANT TO THE WORK HEALTH AND SAFETY ACT 2011 WE HEREBY ADVISE THAT OUR DESIGN SAFETY REVIEW HAS IDENTIFIED UNUSUAL OR ATYPICAL DESIGN FEATURES THAT MAY PRESENT ADDITIONAL HAZARDS OR RISKS DURING THE CONSTRUCTION PHASE AND THESE ARE LISTED IN THE CONSTRUCTION HAZARD SCHEDULE.

RISK ANALYSIS MATRIX						
		1 - INSIGNIFICANT	2 - MINOR	3 - MODERATE	4 - MAJOR	5 - CATASTROPHIC
LIKELIHOOD	A - ALMOST CERTAIN	MODERATE	HIGH	EXTREME	EXTREME	EXTREME
	B - LIKELY	MODERATE	HIGH	HIGH	EXTREME	EXTREME
	C - POSSIBLE	LOW	MODERATE	HIGH	EXTREME	EXTREME
	D - UNLIKELY	LOW	LOW	MODERATE	HIGH	EXTREME
	E - RARE	LOW	LOW	MODERATE	HIGH	HIGH

RISK EVALUATION TABLE	
RISK LEVEL	ACTION REQUIRED
EXTREME	UNACCEPTABLE RISK. RE-DESIGN REQUIRED. DO NOT PROCEED WITHOUT ADDITIONAL CONTROLS.
HIGH	UNACCEPTABLE RISK. ADDITIONAL CONTROLS NEEDED. CONSIDER FURTHER REVIEW AND CONSIDER RE-DESIGN
MODERATE	RISK MAY BE ACCEPTABLE. MANAGEMENT TO DETERMINE ACTIONS REQUIRED
LOW	ACCEPTABLE. MANAGE RISK THROUGH ROUTINE PROCEDURES AND OTHER ADMINISTRATIVE CONTROLS

LIKELIHOOD TABLE		
LEVEL	DESCRIPTION	QUANTIFICATION GUIDE
A - ALMOST CERTAIN	THE EVENT <u>IS</u> EXPECTED TO OCCUR IN MOST CERTAIN CIRCUMSTANCES	MORE THAN ONCE PER YEAR
B - LIKELY	THE EVENT <u>WILL</u> PROBABLY OCCUR IN MOST CIRCUMSTANCES	AT LEAST ONCE IN 5 YEARS
C - POSSIBLE	THE EVEN T <u>SHOULD</u> OCCUR AT SOME TIME	AT LEAST ONCE IN 10 YEARS
D - UNLIKELY	THE EVENT <u>COULD</u> OCCUR AT SOME TIME	AT LEAST ONCE IN 30 YEARS
E - RARE	THE EVENT <u>MAY</u> OCCUR IN EXCEPTIONAL CIRCUMSTANCES	LESS THAN ONCE IN 30 YEARS

DESIGN HAZARD SCHEDULE					
ITEM	DESIGN HAZARD	POTENTIAL HAZARD	RISK	ELIMINATION / MINIMISATION OF HAZARD / RISK	RESIDUAL RISK
D1	URBAN LAYOUT HAZARD	THE URBAN LAYOUT IS DESIGNED AROUND A PARTICULAR HAZARD :- - INTERSECTION IS UNCLEAR WHICH ROAD HAS PRIORITY	HIGH	THE HAZARD HAS BEEN REDUCED/ELIMINATED BY:- - LINE MARKED INTERSECTION TO ENSURE IT IS CLEAR WHICH ROAD HAS PRIORITY - DESIGN VEHICLE SWEEP PATH CHECKED FOR COMPLIANCE	LOW
D2	EXISTING UNDERGROUND / OVERHEAD SERVICES HAZARD	EXISTING UNDERGROUND AND/OR OVERHEAD SERVICES HAZARD EXIST ON SITE AND NEEDS TO BE REMOVED AND RELOCATED.	HIGH	THE DESIGN OF THE PROJECT HAS INCORPORATED THE RELOCATION OF THESE EXISTING SERVICES AND THE CONTRACTOR IS TO BE MADE AWARE OF THESE EXISTING SERVICES AND TAKE ALL ACTIONS NECESSARY TO MITIGATE THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D3	DEEP EXCAVATION HAZARD	DEEP EXCAVATION IS REQUIRED TO INSTALL SEWER TO SERVICE STRUCTURE.	HIGH	THE DEEP EXCAVATION HAZARD CANNOT BE AVOIDED AND THE CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEDIUM
D4	HIGH RETAINING WALLS	SOME AREAS OF WORKS CONTAIN HIGH RETAINING WALLS WHERE LAND MORPHOLOGY DICTATES.	HIGH	HIGH RETAINING WALLS CANNOT BE AVOIDED DUE TO EXISTING LAND MORPHOLOGY. SINGLE TIER WALLS HAVE LIMITED TO A MAX HEIGHT OF 2m. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	MEIDUM
D5	WATER BODIES	PROPOSED CONSTRUCTION WATER DAMS WILL BE PRESENT ON SITE.	MEDIUM	PROPOSED WATER BODIES HAVE BEEN LOCATED AWAY FROM PUBLIC ACCESS AREAS. ACCESS TO THESE LOCATION WILL BE RESTRICTED FROM THE PUBLIC. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	LOW

CONSTRUCTION HAZARD SCHEDULE		
ITEM	POTENTIAL HAZARD	POSSIBLE PREVENTATIVE ACTION
C1	DEEP EXCAVATION HAZARD	ALL STEPS MUST BE TAKEN TO OBTAIN CURRENT UNDERGROUND SERVICES INFORMATION BEFORE EXCAVATION WORKS COMMENCE. EXCAVATION WORK MUST BE UNDERTAKEN BY APPROPRIATELY EXPERIENCED AND QUALIFIED PERSONNEL. EXCAVATIONS SHALL BE ADEQUATELY SHORED AND APPROPRIATE BARRICADES AND SIGNAGE ERECTED, IF REQUIRED.
C2	OVERHEAD POWER HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF LIVE OVERHEAD CABLES. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON SITE DURING EARTHWORKS AND ANY OTHER HIGH RISK WORKS, IF REQUIRED.
C3	UNDERGROUND ELECTRICAL, TELECOMMUNICATION, GAS AND WATER MAIN HAZARD	WARNING SIGNS AND MARKERS SHALL BE ERECTED ADVISING OF THE PRESENCE OF THE EXISTING SERVICE. THE SERVICE SHALL BE IDENTIFIED AND MARKED BY THE SUPPLY AUTHORITY PRIOR TO THE COMMENCEMENT OF EXCAVATION. A REPRESENTATIVE OF THE SUPPLY AUTHORITY SHALL REMAIN ON SITE DURING THE EXCAVATION WORK, IF REQUIRED.
C4	WORKS NEAR RAIL, AIRPORTS AND ROADS HAZARD	ALL REQUIRED PERMITS, APPROVALS AND SAFETY REQUIREMENTS FROM THE RELEVANT AUTHORITY SHOULD BE OBTAINED PRIOR TO COMMENCING WORK. A REPRESENTATIVE OF THE RELEVANT AUTHORITY SHALL REMAIN ON SITE DURING CONSTRUCTION WHILE THE HAZARD REMAINS.
C5	PEDESTRIAN ACCESS HAZARD	WORK WITHIN OR ADJACENT TO AREAS WHICH THE PUBLIC REQUIRES PEDESTRIAN ACCESS MUST HAVE APPROPRIATE BARRICADES AND SIGNAGE ERECTED AT ALL TIMES.
C6	POTENTIAL VEHICLE HAZARD	SITE PERSONNEL SHALL BE ADVISED OF THE POTENTIAL HAZARDS AND THE APPROPRIATE PROCEDURES FOR WORKING ADJACENT TO OPERATING PUBLIC ROADS. APPROPRIATE SAFETY CLOTHING SHALL BE WORN AND THE REQUIRED SIGNAGE SHALL BE ERECTED. THE WORKS SHALL BE UNDERTAKEN IN A MANNER WHICH DOES NOT COMPROMISE THE SAFETY OF THE VEHICLE OCCUPANTS OR THE SITE PERSONNEL.
C7	DEMOLITION AND CLEARING HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE DEMOLITION AND CLEARING WORKS FOR THE PROJECT AT ALL TIMES. THE CONTRACTORS WORK METHOD STATEMENT SHALL ALSO GIVE CONSIDERATION TO FALLING DEBRIS, COLLAPSE AND DANGEROUS AIRBORNE AGENTS.
C8	TRAFFIC MANAGEMENT HAZARD	SUITABLE QUALIFIED AND EXPERIENCED PERSONNEL SHALL BE RESPONSIBLE FOR THE SAFE AND ORDERLY PASSAGE OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH THE PROJECT AT ALL TIMES. THE CONTRACTOR SHALL DEVELOP A TRAFFIC MANAGEMENT PLAN (TMP) FOR THE PROJECT TO ESTABLISH APPROPRIATE CONTROLS IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL.
C9	ASBESTOS HAZARD	ALL PERSONNEL SHOULD BE ADVISED OF THE POTENTIAL PRESENCE OF ASBESTOS AND AN IDENTIFICATION AND ACTION PLAN SHALL BE PUT IN PLACE. SAMPLING AND IDENTIFICATION IS TO BE UNDERTAKEN IN ACCORDANCE WITH WORKPLACE HEALTH AND SAFETY REGULATIONS. IF SAMPLING CONFIRMS THE PRESENCE OF ASBESTOS THEN THE ACTION PLAN IS TO BE IMPLEMENTED TO REMEDIATE THE SITE.
C10	POTENTIAL ROCK FALL	LAND ABOVE THE SITE HAS BEEN CLEARED AND SOME EARTHWORKS HAS BEEN UNDERTAKEN CREATING A POTENTIAL ROCK FALL HAZARD. SUITABLE PERSONNEL SHALL BE RESPONSIBLE FOR IDENTIFYING ANY POTENTIAL HAZARD AND THE CONTRACTOR SHALL TAKE APPROPRIATE ACTION TO ELIMINATE THE HAZARD.

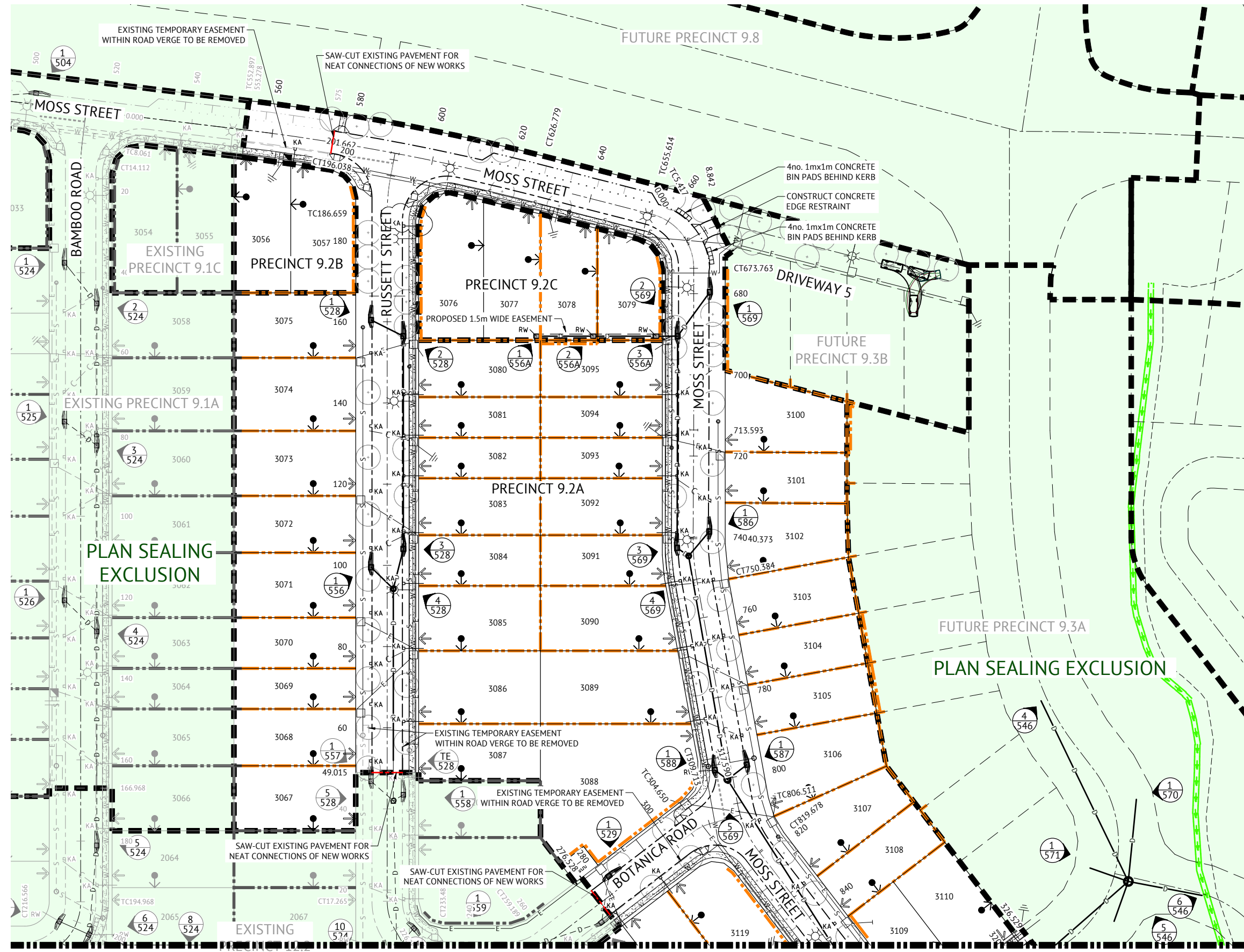
FOR CONSTRUCTION					
DATE	REV	DESCRIPTION	MD	PB	REC
05/11/2021	B	ISSUED FOR CONSTRUCTION			
05/09/2021	A	ORIGINAL ISSUE			

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SCALE	CLIENT <b>MIRVAC GROUP</b>	JOB CODE <b>MIR009-02</b>
PROJECT <b>EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT</b>	LOCATION <b>TEVIOT ROAD, GREENBANK</b>	SHEET NUMBER <b>C004</b>
SHEET TITLE <b>SAFETY IN DESIGN</b>		REV <b>B</b>





**LEGEND - PROPOSED**

- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C400.
- PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED WATER CONDUIT
- PAD MOUNTED TRANSFORMER
- PROPOSED LANDSCAPING WITHIN VERGE. CONCRETE EDGE RESTRAINT BY LANDSCAPING CONTRACTOR. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
- PROPOSED TREE LOCATION

**LEGEND - EXISTING**

- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING ELECTRICAL
- EXISTING TELSTRA
- EXISTING GAS
- EXISTING RISING MAIN
- EXISTING RETAINING WALL
- EXISTING DIVERSION BUND
- EXISTING STORMWATER STRUCTURE No.

JOINS DRAWING C101

**STORMWATER TRENCH BACKFILL NOTE:**  
ALL STORMWATER TRENCH BACKFILL MATERIAL SHALL BE SOURCED FROM ON SITE EXCAVATED MATERIAL.

FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING No. C400 - STORMWATER DRAINAGE DETAILS AND NOTES.

**PAVEMENT SUBGRADE GUARANTEE:**  
CONTRACTOR SHALL UNDERTAKE EARTHWORKS REQUIRED IN EITHER CUT OR FILL TO ENSURE THE SUBGRADE QUALITY IS AT CBR10 OR GREATER. CONTRACTOR TO LAISE WITH OWN GEOTECHNICAL ENGINEER TO ACHIEVE REQUIREMENT.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
05/11/2021	B	ADDED KERB ADAPTOR TO LOT 3076	MD PB
03/09/2021	A	ORIGINAL ISSUE	KK PB
			REC APP

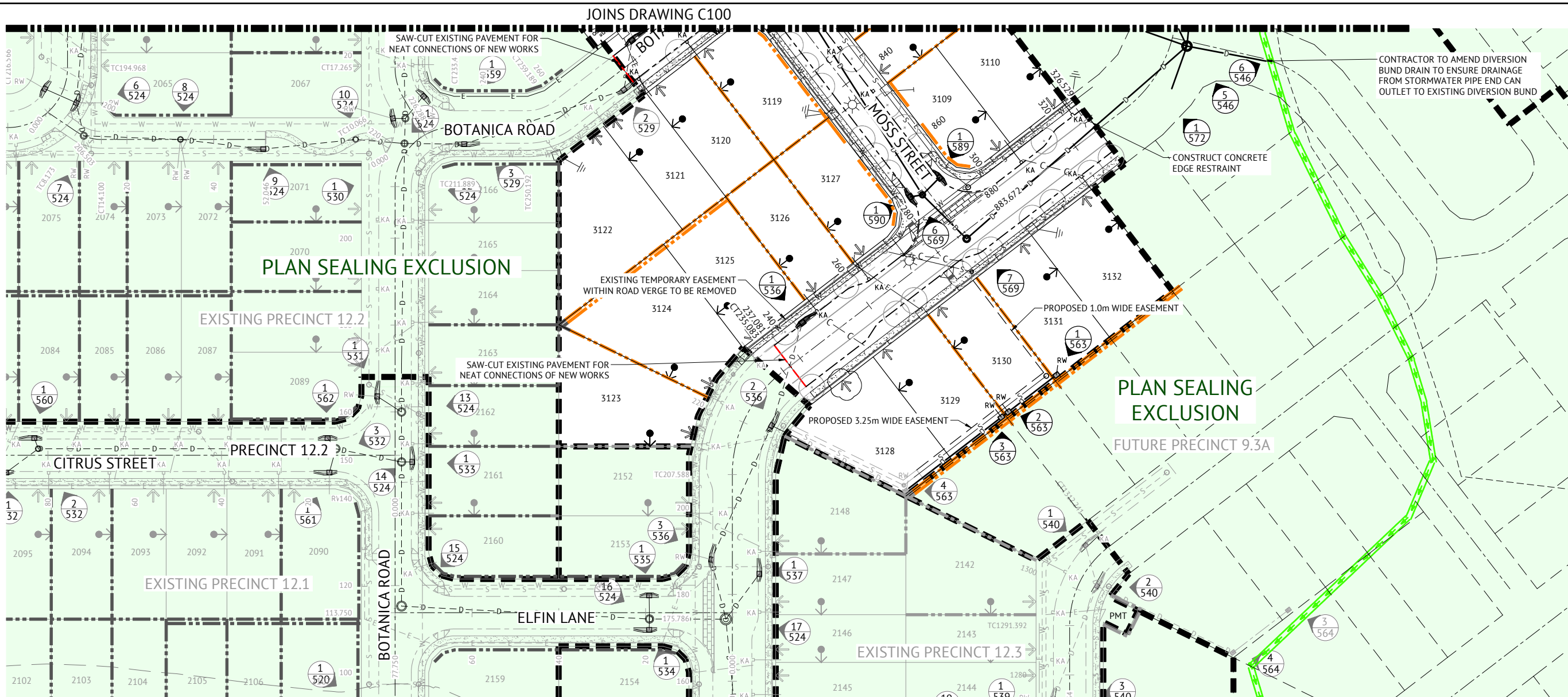
**Premise**  
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WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
**PBR**  
PATRICK BRADY RPEQ 7112

SCALE  
0 10 20 30m  
SCALE 1:500 (A1)  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**ROADWORKS AND DRAINAGE LAYOUT - SHEET 1 OF 2**

JOB CODE  
**MIR009-02**  
SHEET NUMBER  
**C100**  
REV  
**B**



CONTRACTOR TO AMEND DIVERSION BUND DRAIN TO ENSURE DRAINAGE FROM STORMWATER PIPE END CAN OUTLET TO EXISTING DIVERSION BUND

CONSTRUCT CONCRETE EDGE RESTRAINT

PLAN SEALING EXCLUSION

PLAN SEALING EXCLUSION

FUTURE PRECINCT 9.3A

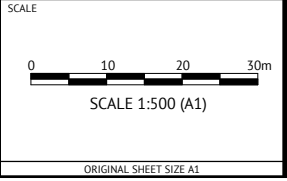
REFER TO C100 FOR LEGEND AND NOTES

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	MOVED DRIVEWAY LOCATION OF LOT 3128	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
			REC	APP

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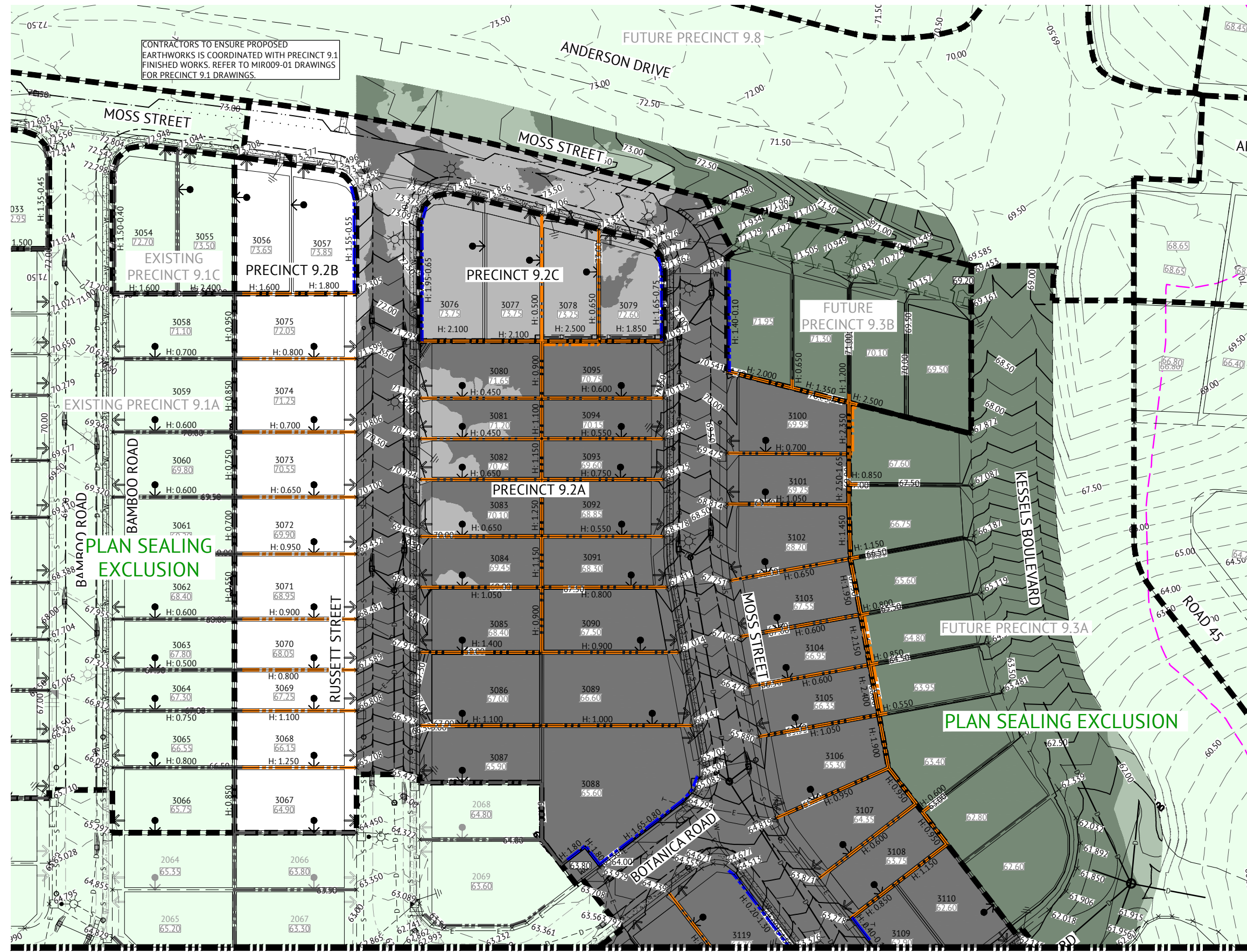
DESIGNED  
K KIWANG  
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S STEINHOFER  
 PROJECT DIRECTOR  
  
 PATRICK BRADY RPEQ 7112



CLIENT  
MIRVAC QLD PTY LTD  
 PROJECT  
EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT  
 LOCATION  
TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
ROADWORKS AND DRAINAGE LAYOUT - SHEET 2 OF 2

JOB CODE		MIR009-02
SHEET NUMBER	REV	
C101	B	





CONTRACTORS TO ENSURE PROPOSED EARTHWORKS IS COORDINATED WITH PRECINCT 9.1 FINISHED WORKS. REFER TO M1009-01 DRAWINGS FOR PRECINCT 9.1 DRAWINGS.

**LEGEND - PROPOSED**

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)
- FINISHED SURFACE LEVEL
- PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED MASONRY WALL TO ENERGEX STANDARDS
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- PAD MOUNTED TRANSFORMER
- STAGE BOUNDARY

**LEGEND - EXISTING**

- EXISTING RETAINING WALL
- EXISTING CONTOURS (0.50m)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING TRUNK SEWER
- EXISTING SEWER RISING MAIN
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- VEGETATION CLEARING EXTENT

- NOTES**
- REFER TO BULK EARTHWORKS NOTES & DETAILS DRAWINGS FOR:
    - EARTHWORKS NOTES AND DETAILS
    - RETAINING WALL NOTES AND DETAILS
  - PROPOSED SERVICES ARE WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS AND DETAILS.
  - EXISTING DWELLINGS, FENCES ETC TO BE DEMOLISHED AND REMOVED OFF SITE BY OTHERS (UNLESS NOTED OTHERWISE)
  - FINAL RETAINING WALL TYPES AND FINISHES SHALL BE CONFIRMED WITH THE SUPERINTENDENT PRIOR TO CONSTRUCTION.

JOINS DRAWING C201

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

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K KIWANG  
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 PROJECT DIRECTOR  
PATRICK BRADY  
 RPEQ 7112

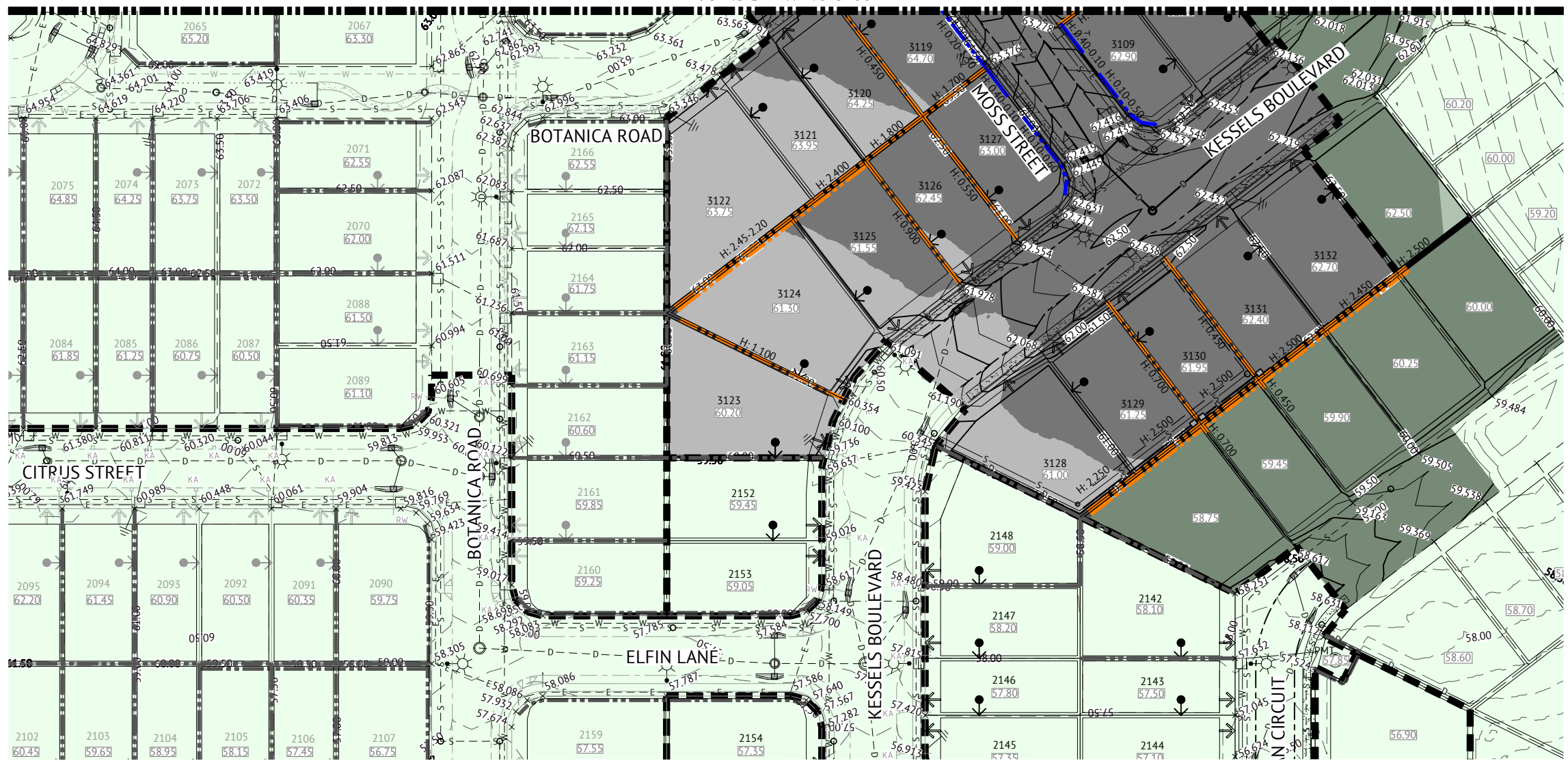
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 SCALE 1:500 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
MIRVAC QLD PTY LTD  
 PROJECT  
EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT  
 LOCATION  
TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
BULK EARTHWORKS LAYOUT - SHEET 1 OF 2

JOB CODE  
M1009-02  
 SHEET NUMBER  
C200  
 REV  
B



JOINS DRAWING C200



• FOR TYPICAL SECTIONS AND NOTES REFER TO EARTHWORKS NOTES AND DETAILS  
• REFER TO DRAWING No. C200 FOR LEGEND.

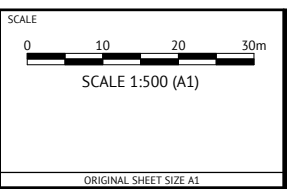
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MD	PB
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03/09/2021	A	ORIGINAL ISSUE		



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DESIGNED  
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CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**BULK EARTHWORKS LAYOUT - SHEET 2 OF 2**

JOB CODE  
**MIR009-02**

SHEET NUMBER	REV
<b>C201</b>	<b>B</b>



## NOTES

- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
- ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL ONE' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES AND AS3798.
- EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
- ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.
- CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE FULL PERIMETER BOUNDARY INCLUDING APPROPRIATE SIGNAGE.

## TESTING

- THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS. FAILED TESTS WILL BE AT THE CONTRACTOR'S EXPENSE.

## EARTHWORKS TESTING

- COMPACTION TESTS

LOCATION	AREA PER TEST
FINISHED LEVEL OR ROAD SUBGRADE (IN CUT OR FILL)	REFER TO THE LOCAL AUTHORITY SPECIFICATION
LOWEST TWO LEVELS OF EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND UNDER EMBANKMENT	

- QUALITY TESTS  
QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
- SUBGRADE TESTS  
THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE IN ACCORDANCE WITH LOGAN CITY COUNCIL SPECIFICATION REQUIREMENTS.

## DUST

- NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE. DUST CONTROL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AS/NZS3580.10.1:2003. DUST CONTROL SHALL COMPLY WITH THE NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION REPORT 'APPROVED METHODS & GUIDANCE FOR THE MODELLING AND ASSESSMENT OF AIR POLLUTANTS IN NSW.'
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

## FILL MANAGEMENT

- ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE FILL SPECIFICATION PROVIDED ON THIS SHEET, OR WHERE PROVIDED, THE REQUIREMENTS OF THE GEOTECHNICAL REPORT SPECIFIC TO THIS CONTRACT.
- THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
- ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
- THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
- PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
- DEPRESSIONS FORMED BY THE REMOVAL OR VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC., SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
- ALL COMPLIANCE TESTING SHALL BE CARRIED OUT BY THE GEOTECHNICAL ENGINEER WHO WILL BE ENGAGED BY THE PRINCIPAL CONTRACTOR. ANY/ALL TESTING NECESSARY FOR GUIDANCE OR RE-TESTS WILL BE AT THE COST OF THE CONTRACTOR.
- THE PLACEMENT OF FILL TO BE EXECUTED SUCH THAT TO BE FREE DRAINING AT ALL TIMES AND NOT TO BE A NUISANCE OR PONDING TO ADJOINING PROPERTY OR ROADS.
- NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
- WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
- ALL VEHICLES EXITING FROM THE SITE TO BE CLEAN TO PREVENT MATERIAL BEING TRACKED OR DEPOSITED ON THE ADJOINING PUBLIC ROADS, REFER ENVIRONMENTAL MANAGEMENT NOTES ON THE EROSION AND SEDIMENT CONTROL DRAWINGS.
- SITE ACCESS TO AND ACROSS THE SITE ARE SUBJECT TO SUPERINTENDENT APPROVAL.

## TOPSOIL RESPREAD REQUIREMENTS

TOPSOIL RESPREAD THICKNESS SHALL BE AS SPECIFIED BELOW IN THE FOLLOWING AREAS:

- REFER TO EROSION & SEDIMENT CONTROL - STABILISATION PHASE DRAWING FOR TOPSOIL RESPREAD LOCATIONS AND THICKNESS.

## TURF

CONTRACTOR SHALL SUPPLY AND LAY TURF AS SPECIFIED IN THE FOLLOWING AREAS:

- REFER TO EROSION & SEDIMENT CONTROL - STABILISATION PHASE DRAWING FOR TURF SUPPLY AND LAY AREAS.

## TRENCH SPOIL

EXCESS TRENCH SPOIL MATERIAL GENERATED BY THIS CONTRACT SHALL BE PLACED EITHER WITHIN THE FILL ZONE NOMINATED ON THE EARTHWORKS DRAWINGS OR WITHIN A FILL ZONE NOMINATED BY THE SUPERINTENDENT THAT SHALL BE CONFIRMED PRIOR TO CONSTRUCTION COMMENCEMENT. FILL TO BE PLACED UNDER LEVEL 1 SUPERVISION AND IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION.

## TRENCH BACKFILL

CBR15 STORMWATER TRENCH BACKFILL MATERIAL SHALL BE SOURCED FROM ON SITE EXCAVATED MATERIAL.

## EXCAVATION IN ROCK

CONTRACT SHALL INCLUDE TREATING, SIZING, CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED TO ENSURE THAT FILL SPECIFICATION AND LEVEL ONE CERTIFICATION IS ACHIEVED.

## EVERLEIGH EARTHWORKS TOLERANCE TABLE

ITEM	TOLERANCE
EARTHWORKS IN ALLOTMENTS AND VERGES <sup>(a)</sup>	EWL or FSL +/- 50mm
CUT BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 150mm <sup>(b)</sup>
FILL BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 300mm <sup>(b)</sup>
EARTHWORKS IN PARKS	EWL or FSL +/- 50mm

- <sup>(a)</sup> TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.  
<sup>(b)</sup> MEASURED FROM THE AVERAGE SLOPE PLANE.

## TOLERANCE NOTES

- EARTHWORKS LEVEL (EWL) IS 100mm BELOW FINISHED SURFACE LEVEL (FSL) ON ALLOTMENTS (TOPSOIL RESPREAD THICKNESS).
- FINISHED SURFACE LEVEL (FSL) IS TOP OF TURF / STABILISED TOPSOIL LEVEL.
- ROADWORKS SUBGRADE, PAVEMENT, ASPHALT CONSTRUCTION LEVEL TOLERANCES AS PER LCC PSP No. 5.
- STORMWATER DRAINAGE CONSTRUCTION LEVEL TOLERANCES AS PER LCC PSP No. 5.
- SEWER AND WATER RETICULATION CONSTRUCTION LEVEL TOLERANCES AS PER SEQ D&C CODE.

## DISPERSIVE SOILS MANAGEMENT NOTES

- DISPERSIVE SOIL TREATMENT MEASURES IN THE FOLLOWING AREAS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE REQUIREMENTS OF THE EVERLEIGH DISPERSIVE SOIL MANAGEMENT:
  - WITHIN SERVICE TRENCHES
  - SURFACE AREAS SURROUNDING STORMWATER HEADWALLS
  - TURF/LANDSCAPED AREAS SUBJECT TO WATER FLOW
  - TURF/LANDSCAPED AREAS SUBJECT TO WATER PONDING
- STABILISATION OF DISTURBED AREAS AND MANAGEMENT OF EROSION AND SEDIMENT SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS IN THIS DRAWING SET.
- CONTRACTOR MUST CONSTRUCT AND ESTABLISH THE EROSION AND SEDIMENT CONTROL DEVICES, CONSTRUCTION WATER HOLDING DAM AND HES BASIN PRIOR TO COMMENCING EARTHWORKS OPERATION.
- ALL DISTURBED AREAS SHALL BE STABILISED AS SOON AS PRACTICABLE (BUT NOT MORE THAN 10 DAYS) FOLLOWING FINALISATION OF LEVELS. STABILISATION TO BE IN ACCORDANCE WITH EROSION & SEDIMENT CONTROL - STABILISATION PHASE.

## TOPSOIL AMELIORATION

ONSITE STRIPPED TOPSOIL SHALL BE AMELIORATED PRIOR TO RESPREAD. THE FOLLOWING AMELIORATION SPECIFICATIONS SHALL APPLY:

### A-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- ON-SITE COMPOST INCORPORATION (0.15kg/m<sup>3</sup> OF TOPSOIL)
- DOLOMITE (15kg/m<sup>3</sup> OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m<sup>3</sup> OF TOPSOIL)
- FERTILISER (0.4kg/m<sup>3</sup> OF TOPSOIL)

### B-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- DOLOMITE (15kg/m<sup>3</sup> OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m<sup>3</sup> OF TOPSOIL)
- FERTILISER (0.4kg/m<sup>3</sup> OF TOPSOIL)

## ROCK TREATMENT IN ALLOTMENTS

WHERE ALLOTMENTS ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 500mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL), AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.

ALL CUT LOTS WHICH ARE NOT LOCATED IN ROCK MUST ACHIEVE 100kPa BEARING CAPACITY. WHERE THIS CAN'T BE ACHIEVED, THE CONTRACTOR SHALL RECTIFY THE SUBGRADE IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION TO ACHIEVE A 100kPa BEARING CAPACITY.

## ROCK TREATMENT IN VERGES

WHERE ROAD RESERVES ARE LOCATED IN CUT, THE CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM 1000mm DEPTH BELOW DESIGN EARTHWORKS LEVEL (EWL) AND RECOMPACT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND LEVEL ONE SUPERVISION.

## EARTHWORKS SPECIFICATION

SPECIFICATION	DEPTH RANGE (m)				PAVEMENT SUBGRADE	TRENCH BACKFILL
	0.0 - 0.6	0.6 - 3.00	3.00 - 5.00	> 5.00		
CBR %	-	-	-	-	10	15
LAYER THICKNESS (mm)	300	300	300	300	BETWEEN SUBGRADE AND 0.3m BELOW	300
MAXIMUM PARTICLE SIZE (mm)	200	500	500	500	200	200
% PASSING 37.5mm	80% MIN	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES	REFER NOTES AND KEY OUTCOMES
% PASSING 0.075mm	30% MIN	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES	REFER NOTES AND AS3798
COMPACTION	95% STD	95% STD	95% STD	95% STD	100% STD	95% MOD IN ROADS AND 95% STD OUTSIDE ROADS
MOISTURE	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	+/- 2% OMC	60% - 90% OF OMC	+/- 2% OMC

### NOTES:

- OMC - OPTIMUM MOISTURE CONTENT
- LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL.
- TREATMENT OF ROCK TO SIZES ABOVE SHOULD BE CARRIED OUT IN CUT PRIOR TO LOADING TO FILL AREAS. TREATED ROCK TO BE APPROVED BY GITA PRIOR TO TRANSPORTING.
- UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.
- PROOF ROLL TESTING ON EACH COMPACTED LAYER USING RUBBER WHEELED PLANT SUCH AS LOADED ADT'S OR LOADED SCRAPERS. UNFAVOURABLE DEFORMATION OF THE COMPACTED SURFACE UNDER LOAD OF ADT'S OR SCRAPERS WILL REQUIRE REPAIR PRIOR TO ADDITIONAL PLACEMENT.
- MECHANICAL INTERLOCK METHODOLOGY IS NOT APPROPRIATE DUE TO POOR DURABILITY OF SITE WON SANDSTONE. FILL COMPOSITION IS REQUIRED TO INCLUDE AN APPROPRIATE SAND GRAVEL AND FINES COMPONENT CONFORMING TO THE REQUIREMENTS OF AS798.

### KEY OUTCOMES FOR EARTHWORKS OPERATIONS

- DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS
- FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m
- CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS
- BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT
- MATERIAL WON FROM CUTS AND USED IN FILL WITH REQUIRE
  - CUTS IN ROCK AS WELL AS BLENDED WITH
  - CUTS IN FINER MATERIALS SUCH AS SANDS AND CLAYS
- CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289

## FOR CONSTRUCTION

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05/09/2021	A	ORIGINAL ISSUE		
			KK	PB
			REC	APP

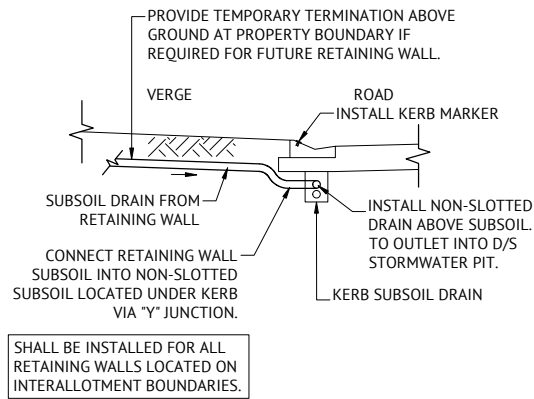


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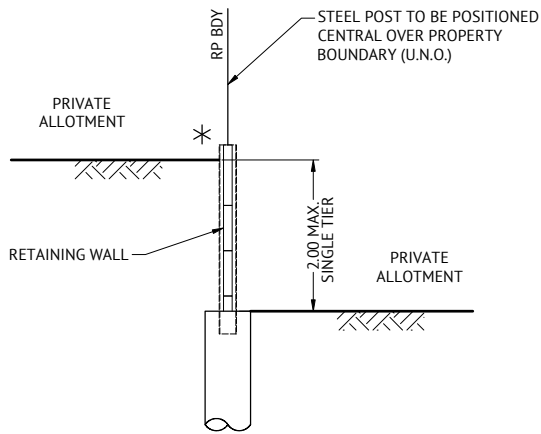
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CHECKED <b>A LANGDON</b>	
PROJECT MANAGER <b>S STEINHOFER</b>	
PROJECT DIRECTOR <b>PATRICK BRADY</b>	

CLIENT <b>MIRVAC QLD PTY LTD</b>	ORIGINAL SHEET SIZE A1
PROJECT <b>EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT</b>	
LOCATION <b>TEVIOT ROAD, GREENBANK</b>	
SHEET TITLE <b>BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2</b>	

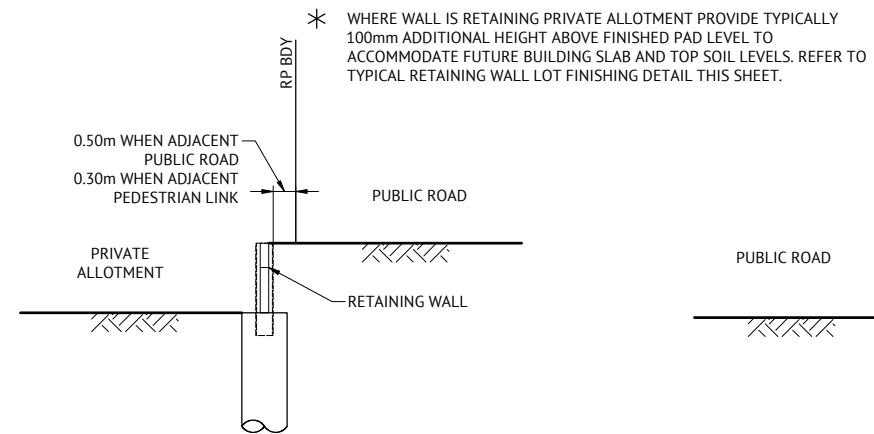
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SHEET NUMBER <b>C210</b>
REV <b>B</b>



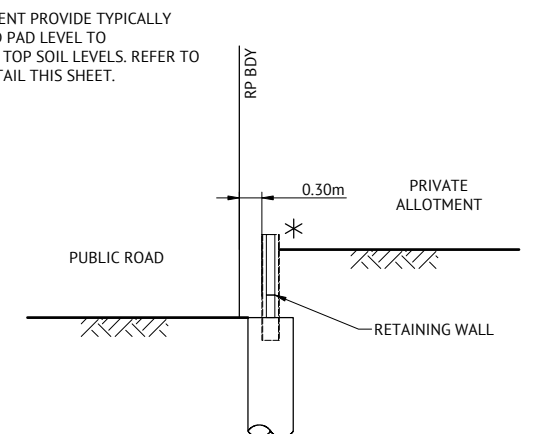
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N.T.S.



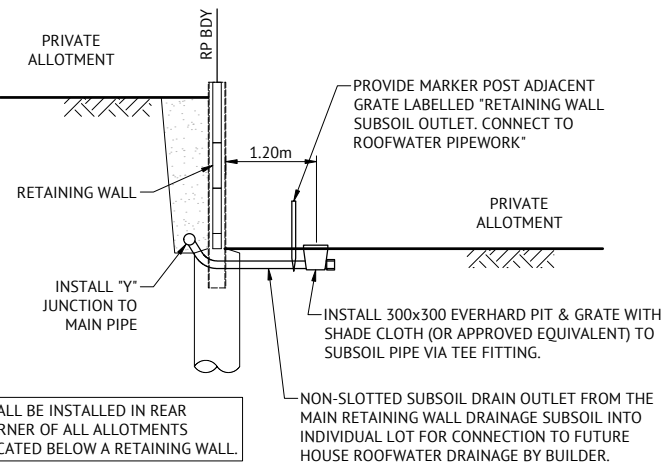
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0.4m-2m MAX HIGH  
N.T.S.



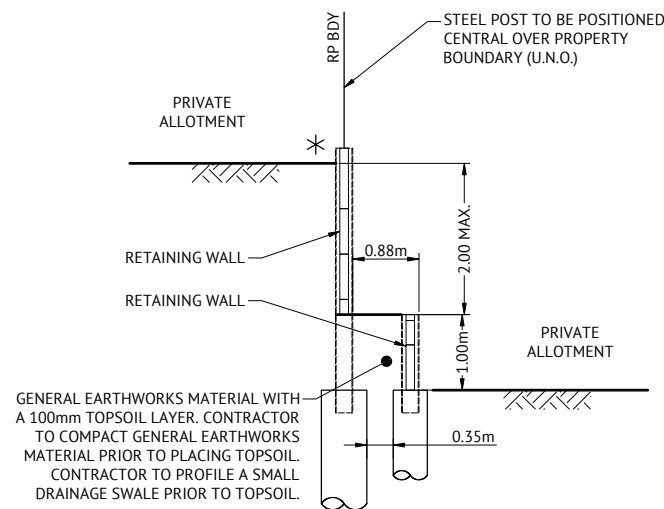
**TYPICAL RETAINING WALL DETAIL**  
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N.T.S.



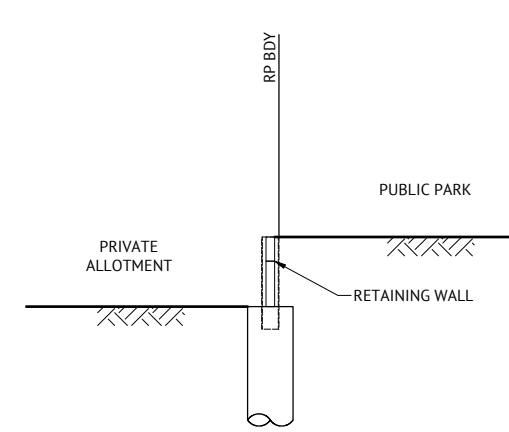
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ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER  
N.T.S.



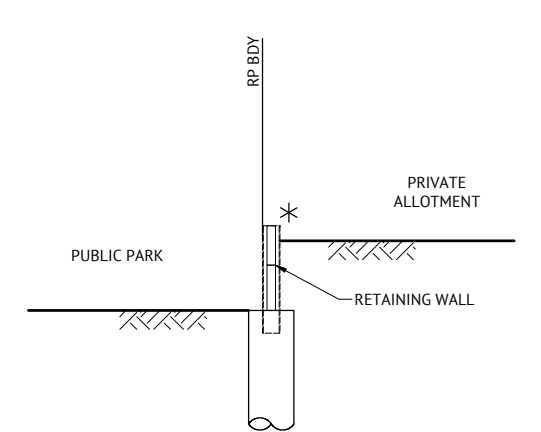
**TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS**  
N.T.S.



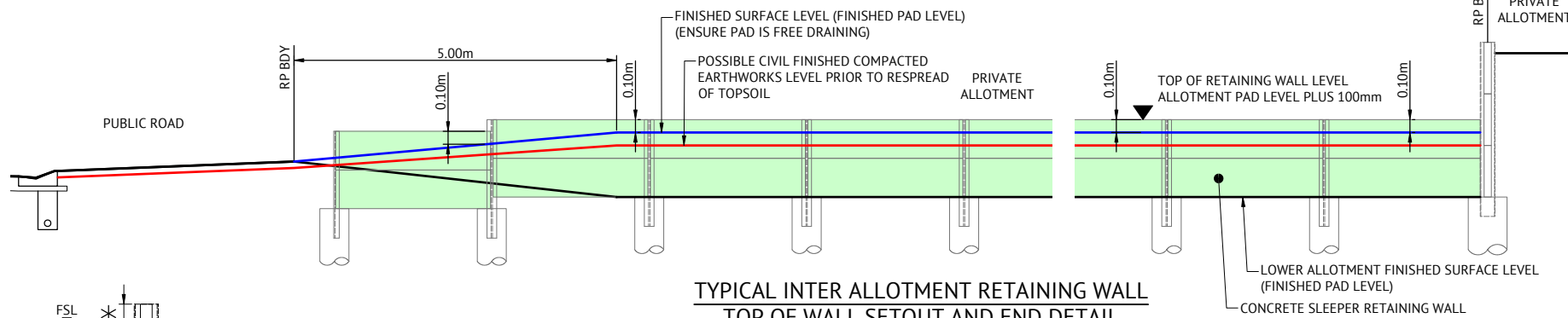
**TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT**  
2m-3m MAX HIGH  
N.T.S.



**TYPICAL RETAINING WALL DETAIL**  
PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER  
N.T.S.



**TYPICAL RETAINING WALL DETAIL**  
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER  
N.T.S.



**TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL SETOUT AND END DETAIL**  
N.T.S.

**RETAINING WALL DESIGN:**

- ALL RETAINING WALLS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION RETAINING WALL SPECIFICATION" PREPARED BY PREMISE ENGINEERING.
- RETAINING WALLS ARE TO BE DESIGNED TO ACHIEVE A MINIMUM OF 50 YEAR DESIGN LIFE.
- RETAINING WALLS ARE TO BE DESIGNED IN ACCORDANCE WITH THE AS4678- EARTH RETAINING STRUCTURES AND RELEVANT MATERIAL STANDARDS (E.G AS3600- CONCRETE STRUCTURES).

**RETAINING WALL SUBSOIL DRAINAGE OUTLET DESIGN:**

RETAINING WALL SUBSOIL DRAINAGE PIPE OUTLET LOCATIONS SHALL BE IN ACCORDANCE WITH THE EVERLEIGH RETAINING WALL DESIGN SPECIFICATION. THE PRINCIPAL CIVIL CONTRACTOR SHALL DETERMINE THE LOCATION OF RETAINING WALL SUBSOIL DRAINAGE PIPES IN ACCORDANCE WITH THE EVERLEIGH RETAINING WALL DESIGN SPECIFICATION AND PROVIDE PROPOSAL TO THE SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCING RETAINING WALL CONSTRUCTION.

**RETAINING WALL SHOP DRAWINGS**

CONTRACTOR MUST PREPARE RETAINING WALL SHOP DRAWINGS FOR APPROVAL BY SUPERINTENDENT PRIOR TO COMMENCING RETAINING WALL CONSTRUCTION. SHOP DRAWINGS ARE TO DETAIL THE FOLLOWING ELEMENTS:

- ELEVATIONS OF ALL PROPOSED RETAINING WALLS AND ACOUSTIC FENCES
- TOP AND BOTTOM RLS TO SLEEPER/PANEL
- FINISHED PAD/ROAD SURFACE LEVELS
- DIMENSIONS OF RETAINING WALL END FINISHING CONFIGURATION, OFFSETS FROM BOUNDARIES
- POST DETAILS FOR INTRICATE INTERSECTION POINTS

**PROPERTY SERVICES UNDER RETAINING WALLS:**

CONTRACTOR SHALL REFER TO ALL LATEST SERVICE DRAWINGS TO ENSURE PROVISIONS ARE MADE FOR ALL PROPERTY SERVICE CONNECTIONS UNDER RETAINING WALLS.

**PAD MOUNTED TRANSFORMER NOTE**

- RETAINING WALLS AND THEIR FOOTINGS SHALL NOT ENCOACH INTO THE PMT SITE (AS PER RETAINING WALLS LOCATED ADJACENT ROAD RESERVES DETAIL) UNLESS THE RETAINING WALL SPECIFIED IS AN ENERGEX STANDARD MASONRY WALL.
- RETAINING WALL DESIGN SHALL CONSIDER ENERGEX REQUIREMENT WHERE RETAINING WALLS ARE LOCATED WITHIN 2m OF PMT SITE.

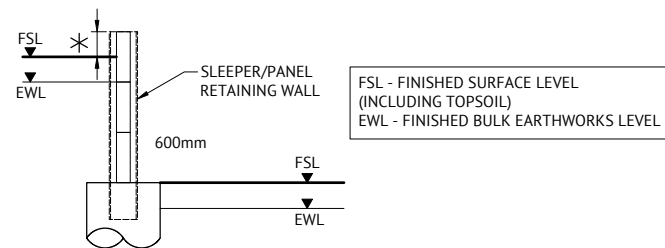
**RETAINING WALL TYPE**

**PRIVATE FACING RETAINING WALLS:**  
CONCRETE SLEEPER RETAINING WALL. TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT (COLOUR WARM GREY 10C). DESIGN SPECIFICATION BY MANUFACTURER.

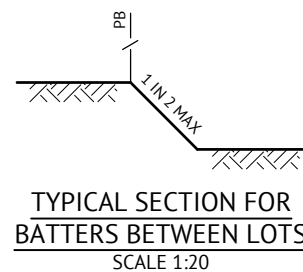
**PUBLIC FACING RETAINING WALLS:**  
CONCRETE PANEL RETAINING WALL. 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER.

**FENCE BRACKETS**

PROVIDE FENCE BRACKETS TO ALL RETAINING WALLS. NO BRACKETS TO BE PROVIDED WITHIN THE FIRST 5m FROM FRONT BOUNDARY FOR INTER-ALLOTMENT RETAINING WALLS.



**TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL**  
N.T.S.



**TYPICAL SECTION FOR BATTERS BETWEEN LOTS**  
SCALE 1:20

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	KK	PB
15/10/2021	C	UPDATED RETAINING WALL NOTE	AL	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB

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DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112

SCALE  
NTS  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2**

JOB CODE  
**MIR009-02**  
SHEET NUMBER  
**C211**  
REV  
**C**



**NOTES**

- ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
- NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
- THE CONTRACTOR IS TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE RESPONSIBLE FOR THE COST OF RECTIFICATION OF ANY DAMAGES TO EXISTING SERVICES WHICH MAY OCCUR. THE LOCATION OF EXISTING SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE ONLY.
- SUBGRADE TEST RESULTS TO BE FORWARDED TO SUPERINTENDENT FOR DETERMINATION OF BOX DEPTHS PRIOR TO EXCAVATION. TESTS SHALL INCLUDE SOAKED CBR AND/OR OTHER TESTS AS REQUESTED BY THE SUPERINTENDENT.
- ALLOTMENT FILLING TO BE COMPACTED TO 95% (min) OF THE R.D.D. (AS 1289 - TESTS E1.1, E4.1).
- LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.
- LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS APPROVED BY THE SUPERINTENDENT TO ACHIEVE SATISFACTORY CONNECTION TO THE EXISTING WORKS.
- SIDE DRAINS AND MITRE DRAINS TO BE CONSTRUCTED ADJACENT TO ALL KERB AND CHANNEL.
- PROVIDE FLUSH POINTS TO SUBSOIL DRAINS, LOCATIONS TO BE CONFIRMED ON SITE.
- ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION. ALL PIPES ARE 375mm DIAMETER U.N.O.
- GULLIES AND GULLY GRATES SHALL BE TO STD. DRGS BSD-8051 - BSD-8059.
- KACEY GALV. STEEL KERB ADAPTORS ARE TO BE INSTALLED TO THE REQUIREMENTS OF THE LOCAL COUNCILS STANDARD DRAWINGS AND SPECIFICATIONS.
- ALL LOTS SHOWN BOXED TO HAVE ROOFWATER FOOTPATH CROSSINGS TO KERB. CROSSINGS ARE TO BE 88.9 DIA. GALV. CHS. TO KACEY KERB ADAPTOR.
- ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
- ROOFWATER PITS ARE TO BE 600mm DIAMETER FOR DEPTHS LESS THAN 750mm, 900mm DIAMETER FOR DEPTHS BETWEEN 750mm AND 1500mm DEEP AND 1050mm DIAMETER FOR DEPTHS GREATER THAN 1500mm.
- ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
- HAZARD MARKERS (D4-4A) TO BE PLACED AT THE END OF NEW WORKS AS DIRECTED BY SUPERINTENDENT.
- SITE CBR VALUE AND PAVEMENT DESIGN AND DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- TO BE READ IN CONJUNCTION WITH ALL STORMWATER DRAINAGE LAYOUT PLANS & ROADWORKS DETAILS.

**ROADWORKS NOTES**

- GEOTECHNICAL TESTING FOR PAVEMENT CONSTRUCTION IS TO BE CARRIED OUT IN ACCORDANCE WITH THE PROJECT SPECIFICATION. TEST CERTIFICATES ARE TO BE PREPARED BY A REGISTERED N.A.T.A. LABORATORY AT THE CONTRACTORS COST AND SHALL BE PROVIDED TO THE ENGINEER PROGRESSIVELY THROUGH THE WORKS. THE CONTRACTOR IS TO NOTIFY THE ENGINEER OF ANY NON-CONFORMANCES. ALL NON CONFORMING WORK IS TO BE RECTIFIED AS DIRECTED BY THE ENGINEER.
- FULL DEPTH PAVEMENT CONSTRUCTION SHALL EXTEND BEHIND ALL KERB AND KERB AND CHANNEL FOR A DISTANCE WHICH IS THE GREATER OF 150mm FROM THE BACK OF KERB OR ACROSS TO THE OUTER LIMIT OF SIDE DRAIN FILTER MATERIAL.
- TRANSITION KERB AND CHANNEL TO BARRIER KERB SMOOTHLY OVER MIN. 1.0m LENGTH.
- PAVEMENT THICKNESSES NOMINATED ON THESE DRAWINGS ARE PROVISIONAL ONLY AND MAY BE VARIED BY THE SUPERINTENDENT SUBJECT TO INSITU PAVEMENT SUBGRADE TESTING. PAVEMENT SUBGRADES ARE TO BE INITIALLY CONSTRUCTED TO THE UNDERSIDE OF THE NOMINATED LOWER SUBBASE COURSE WITHIN FILL AREAS, AND TO THE UNDERSIDE OF THE NOMINATED UPPER SUBBASE COURSE WITHIN CUT AREAS. INSITU SUBGRADE CBR TESTING AS SPECIFIED FOR PAVEMENT DESIGN VERIFICATION IS TO BE CARRIED OUT AT THESE LEVELS.
- REPAIR ANY DAMAGE TO EXISTING KERB AND CHANNEL, FOOTPATH OR ROADWAY (INCLUDING REMOVAL OF CONCRETE SLURRY FROM FOOTPATHS, ROADS, KERB AND CHANNEL AND STORMWATER GULLIES AND SIDEDRAINS) THAT MAY OCCUR DURING ANY WORKS CARRIED OUT.

**CONCRETE PAVEMENT**

- THE CONCRETE PAVEMENT HAS BEEN DESIGNED BASED ON A CBR 5 AND IS SUBJECT TO CONFIRMATION UPON RECEIPT OF CBR TEST RESULT AT TIME OF CONSTRUCTION.
- CONCRETE PAVEMENT SPECIFICATION:

COMPRESSIVE STRENGTH: 25 MPa @ 28 DAYS  
 FLEXURAL STRENGTH: 3.5 MPa @ 28 DAYS  
 MAXIMUM AGGREGATE SIZE: 20mm  
 SLUMP: 80mm+15mm  
 MESH: SL72, 50 TOP COVER  
 BEDDING: 100mm MIN CBR 15 BEDDING

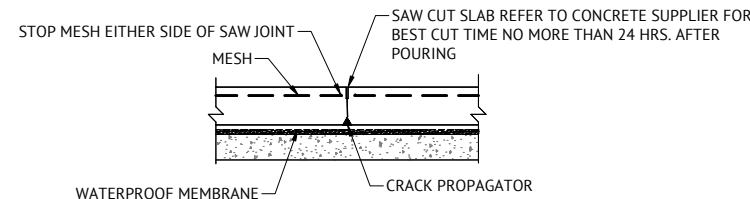
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
- PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
- CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
- ALL JOINTS ARE TO BE SEALED JUST PRIOR TO HANDOVER WITH DOW CORNING '888' SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURING RECOMMENDATIONS.
- JOINTS ARE TO BE INSPECTED AND SEALANT REGULARLY REPLACED IF REQUIRED.
- DIMENSIONAL TOLERANCES OF AS3600, MODIFIED BY AS3610, SHALL APPLY UNLESS OTHERWISE NOTED. SLAB SURFACE FLATNESS TOLERANCE SHALL BE 5mm MAXIMUM DEVIATION FOR A 3m STRAIGHT EDGE.
- CONCRETE PAVEMENTS ARE TO BE BROOM FINISHED. SLAB THICKNESSES NOTED ARE EXCLUSIVE OF APPLIED FINISHES
- CURE ALL CONCRETE BY AN APPROVED METHOD FOR 7 DAYS AFTER HARDENING. PVA AND RESIN BASED CURING COMPOUNDS SHALL NOT BE USED.

**CONCRETE PAVEMENT MAINTENANCE NOTES**

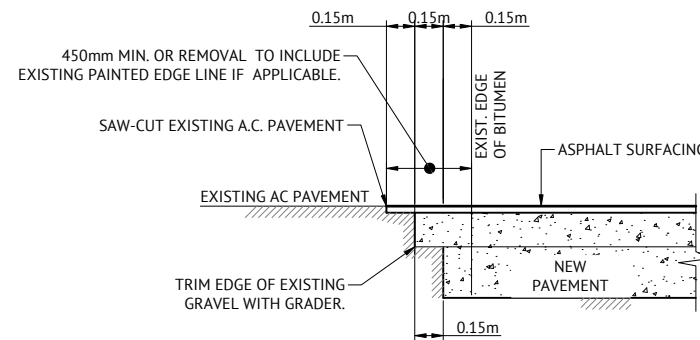
- NOTE THAT UPKEEP AND REPLACEMENT OF SEALANTS IS PART OF THE ONGOING MAINTENANCE REQUIREMENTS FOR THIS SITE.
- NOTE THAT SHRINKAGE CRACKS OF WIDTH < 1.5mm MAY OCCUR IN CONCRETE PAVEMENTS WITHIN 12 MONTHS OF INITIAL CASTING.
- NOTE THAT THE PAVEMENT WILL NOT BE MAINTENANCE FREE FOR ITS DESIGN LIFE.
- INSPECT FLUSH SIDE DRAINS AND SUBSOIL DRAINS EVERY 12 MONTHS.

**CONCRETE REQUIREMENTS**

ITEM	28 DAY STRENGTH	CONCRETE CYLINDER TEST	TESTING FREQUENCY
KERB & CHANNEL	N32	REQUIRED	1 TEST PER 300m
VEHICULAR CROSSINGS	N25	REQUIRED	1 TEST PER CROSSING
BIKEWAYS	N25	REQUIRED	1 TEST PER 300m
FOOTPATHS	N25	REQUIRED	1 TEST PER 300m
CONCRETE CHANNELS	N25	REQUIRED	1 TEST PER 150m <sup>2</sup>
STRUCTURES	AS DESIGN	REQUIRED	AS DIRECTED
ROOFWATER MH'S	N20	NOT REQUIRED	
STORMWATER MH'S	N25	NOT REQUIRED	
PRECAST MANHOLE ROOF SLABS	N40	NOT REQUIRED	
GULLY PITS			
.. PRECAST LINTEL	N30	NOT REQUIRED	
.. OTHER	N25	NOT REQUIRED	

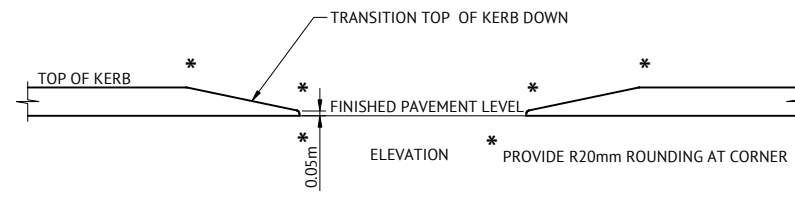


**SAWCUT JOINT (S.J.)**



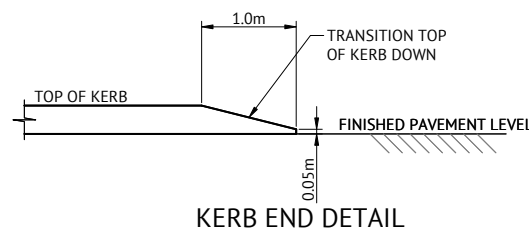
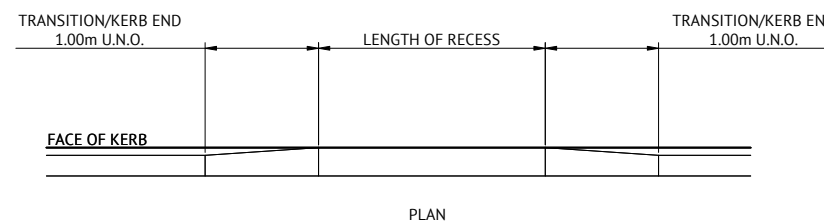
**TYPICAL PAVEMENT CUT-BACK DETAIL**

N.T.S

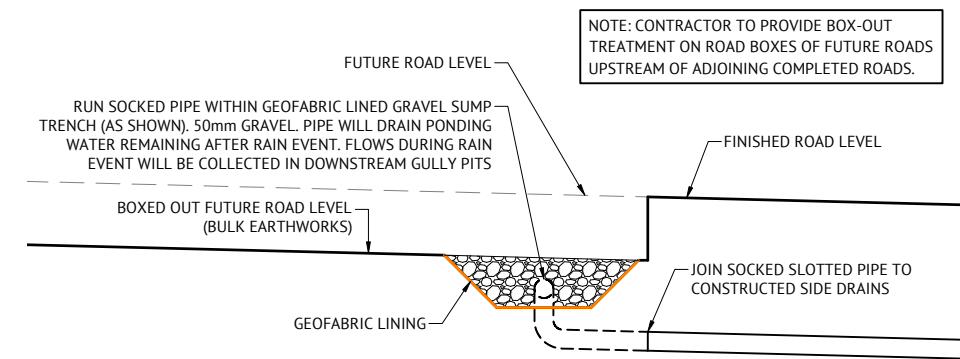


**TYPICAL KERB RECESS / END DETAIL**

NOTE: REFER LAYOUT PLAN FOR TRANSITION RECESS & KERB END LOCATIONS & LENGTHS



**KERB END DETAIL**



**TYPICAL FUTURE ROADS BOX-OUT TREATMENT**

SCALE 1:20

NOTE: CONTRACTOR TO PROVIDE BOX-OUT TREATMENT ON ROAD BOXES OF FUTURE ROADS UPSTREAM OF ADJOINING COMPLETED ROADS.

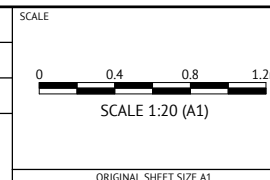
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB



**BRISBANE OFFICE**  
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DESIGNED: K KIWANG  
 CHECKED: A LANGDON  
 PROJECT MANAGER: S STEINHOFER  
 PROJECT DIRECTOR: P. Brady  
 RPEQ 7112



CLIENT: **MIRVAC GROUP**  
 PROJECT: **EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION: **TEVIOT ROAD, GREENBANK**  
 SHEET TITLE: **ROADWORKS NOTES AND DETAILS**

JOB CODE		MIR009-02	
SHEET NUMBER	REV	C300	B

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- MOSS STREET
CLASS	- ACCESS STREET (TYPICAL)
ESA's	- 5.90 x 10 <sup>5</sup>
SURFACE	- 35mm AC of 10mm MIX
PRIMER TYPE	- PRIME
CBR 80	- 150mm
CBR 45	- 150mm
TOTAL BOX	- 335mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

\* REFER TO INTERSECTION DETAILS PLANS

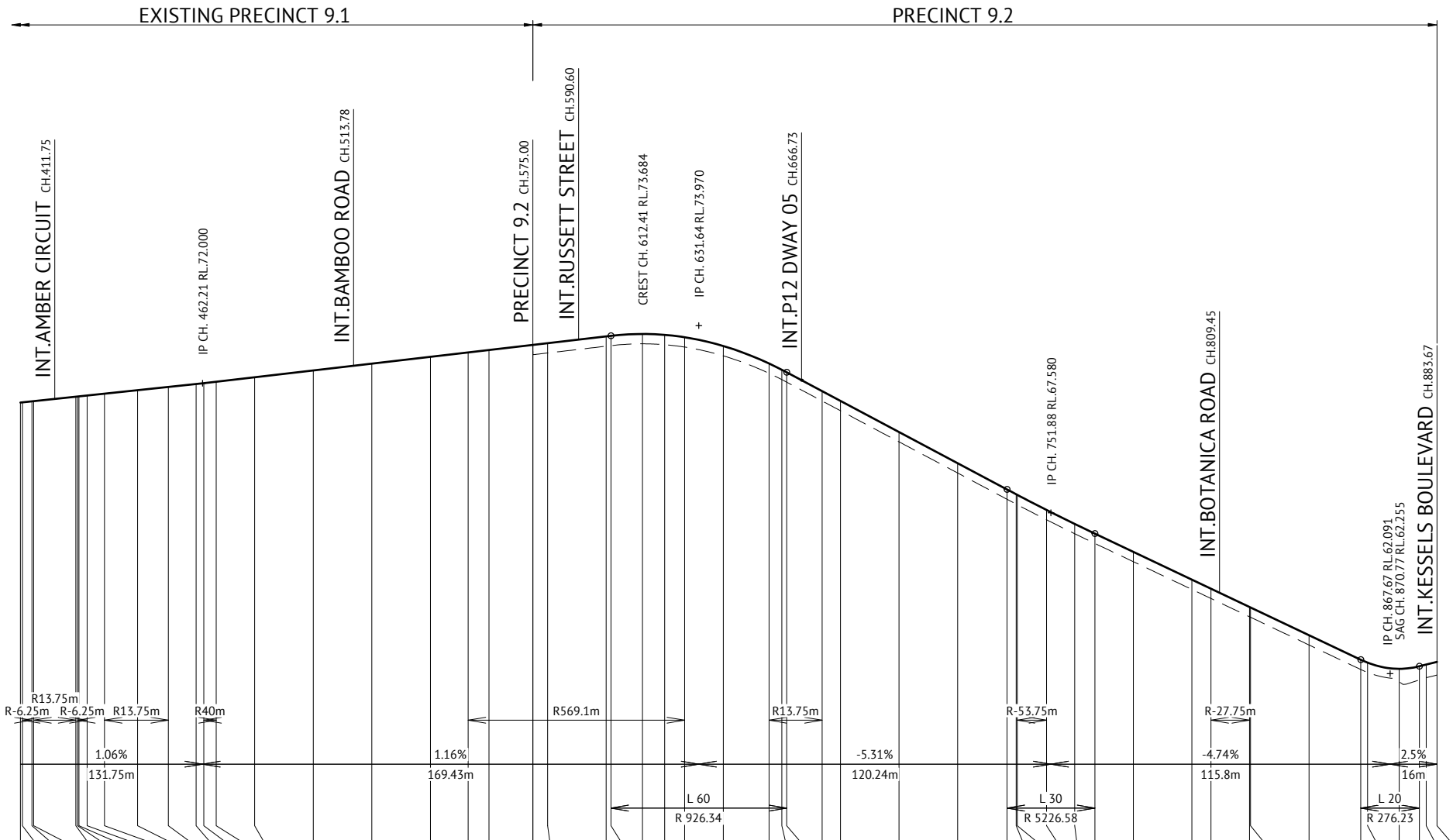
Horiz Curve Data

Vertical Geometry Grade (%)  
Vertical Grade Length (m)

Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.56.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000	71.255	71.255	71.342	71.342	400.00
0.000	71.262	71.262	71.349	71.349	400.69
0.000	71.296	71.296	71.383	71.383	403.96
0.000	71.303	71.303	71.390	71.390	404.54
0.000	71.455	71.455	71.542	71.542	418.94
0.000	71.461	71.461	71.548	71.548	419.52
0.000	71.466	71.466	71.553	71.553	420.00
0.000	71.496	71.496	71.583	71.583	422.80
0.000	71.559	71.559	71.646	71.646	428.73
0.000	71.692	71.692	71.765	71.765	440.00
0.000	71.814	71.814	71.876	71.876	450.54
0.000	71.919	71.919	71.977	71.977	460.00
0.000	71.943	71.943	72.005	72.005	462.62
0.000	71.997	71.997	72.054	72.054	466.87
0.000	72.149	72.149	72.207	72.207	480.00
0.000	72.382	72.382	72.439	72.439	500.00
0.000	72.614	72.614	72.672	72.672	520.00
0.000	72.847	72.847	72.904	72.904	540.00
0.000	72.997	72.997	73.054	73.054	552.90
0.335	73.080	73.075	73.137	72.802	560.00
0.000	73.254	73.249	73.311	73.311	575.00
0.335	73.312	*	73.370	73.035	580.00
0.335	73.545	*	73.602	73.267	600.00
0.335	73.564	73.559	73.621	73.286	601.64
0.335	73.626	73.622	73.684	73.349	612.41
0.335	73.595	73.591	73.653	73.318	620.00
0.335	73.515	73.510	73.572	73.237	626.78
0.335	73.215	73.211	73.273	72.938	640.00
0.335	72.619	72.613	72.676	72.341	655.61
0.335	72.398	72.392	72.398	72.126	660.00
0.335	72.310	72.304	72.376	72.041	661.64
0.335	71.645	71.644	71.731	71.396	673.76
0.335	71.313	71.313	71.400	71.065	680.00
0.335	70.250	70.250	70.337	70.002	700.00
0.335	69.187	69.187	69.274	68.939	720.00
0.335	68.290	68.290	68.377	68.042	736.88
0.335	68.125	68.125	68.212	67.877	740.00
0.335	68.106	68.106	68.195	67.858	740.37
0.335	67.590	67.590	67.677	67.342	750.38
0.335	67.112	67.112	67.199	66.864	760.00
0.335	66.782	66.782	66.869	66.534	766.88
0.335	66.160	66.160	66.247	65.912	780.00
0.335	65.212	*	65.299	64.964	800.00
0.335	64.903	*	64.990	64.655	806.51
0.335	64.279	64.264	64.366	64.031	819.68
0.335	64.264	64.264	64.351	64.016	820.00
0.335	63.316	63.316	63.403	63.068	840.00
0.335	62.478	62.478	62.565	62.230	857.67
0.335	62.377	62.377	62.464	62.129	860.00
0.442	62.377	*	62.455	61.813	870.77
0.463	62.341	*	62.341	61.878	877.67
0.450	62.399	*	62.399	61.949	880.00
0.450	62.491	*	62.491	62.041	883.67



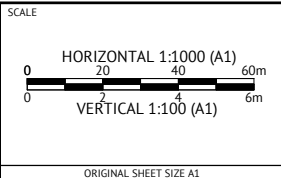
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		



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DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

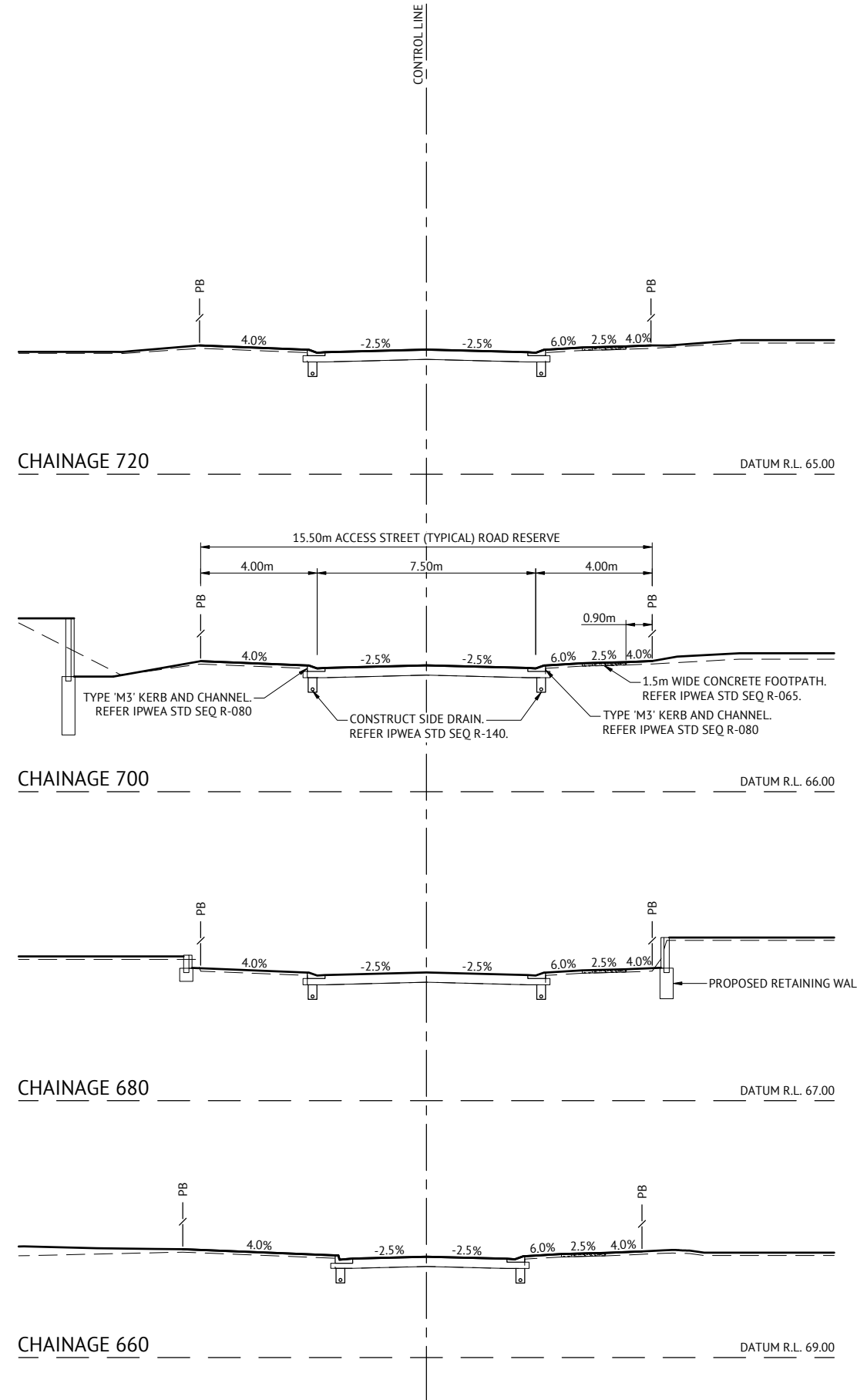
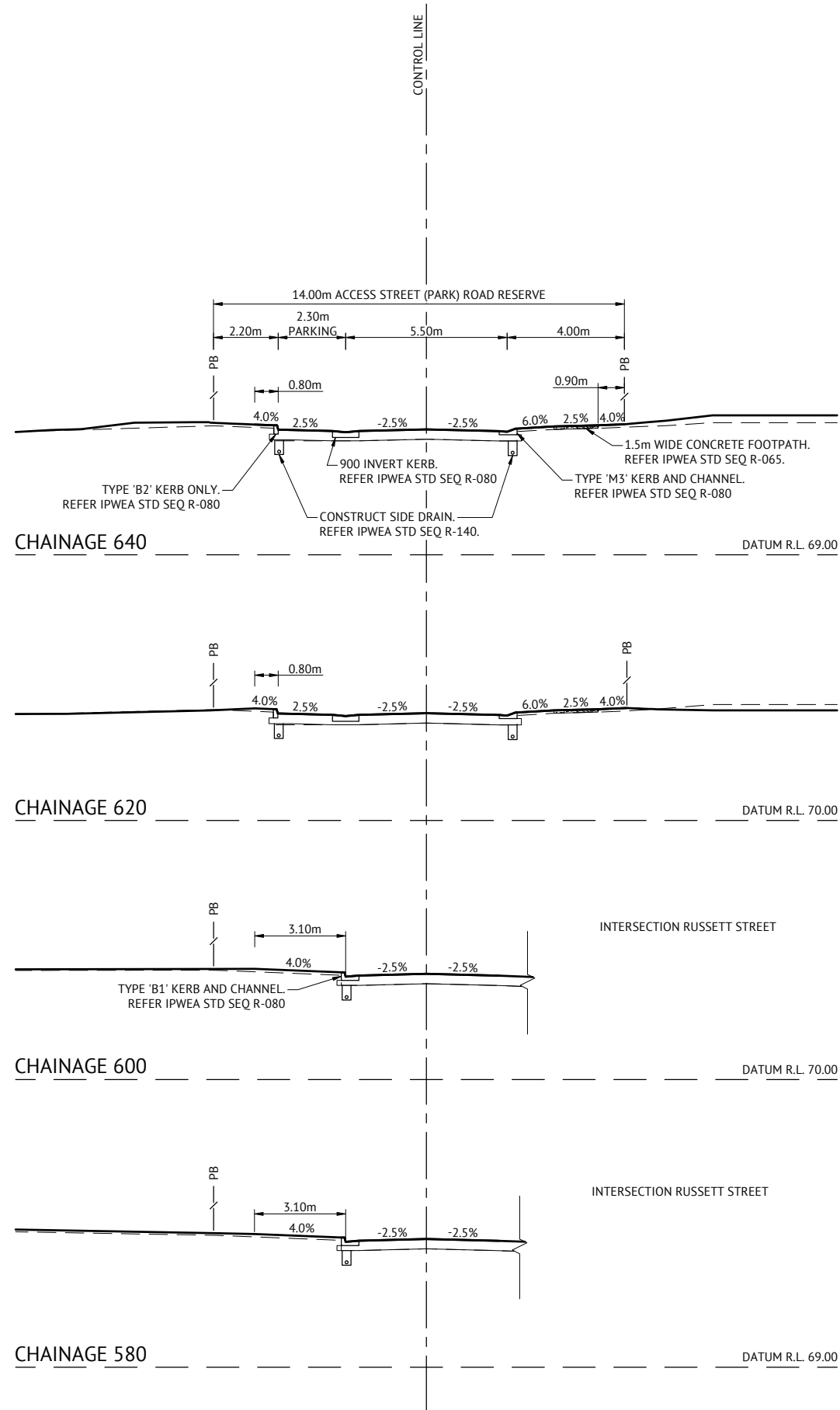
SHEET TITLE  
**MOSS STREET LONGITUDINAL SECTION**

JOB CODE  
**MIR009-02**

SHEET NUMBER  
**C310**

REV  
**B**



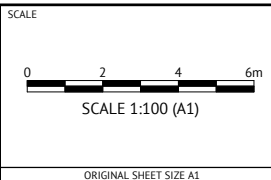


**FOR CONSTRUCTION**



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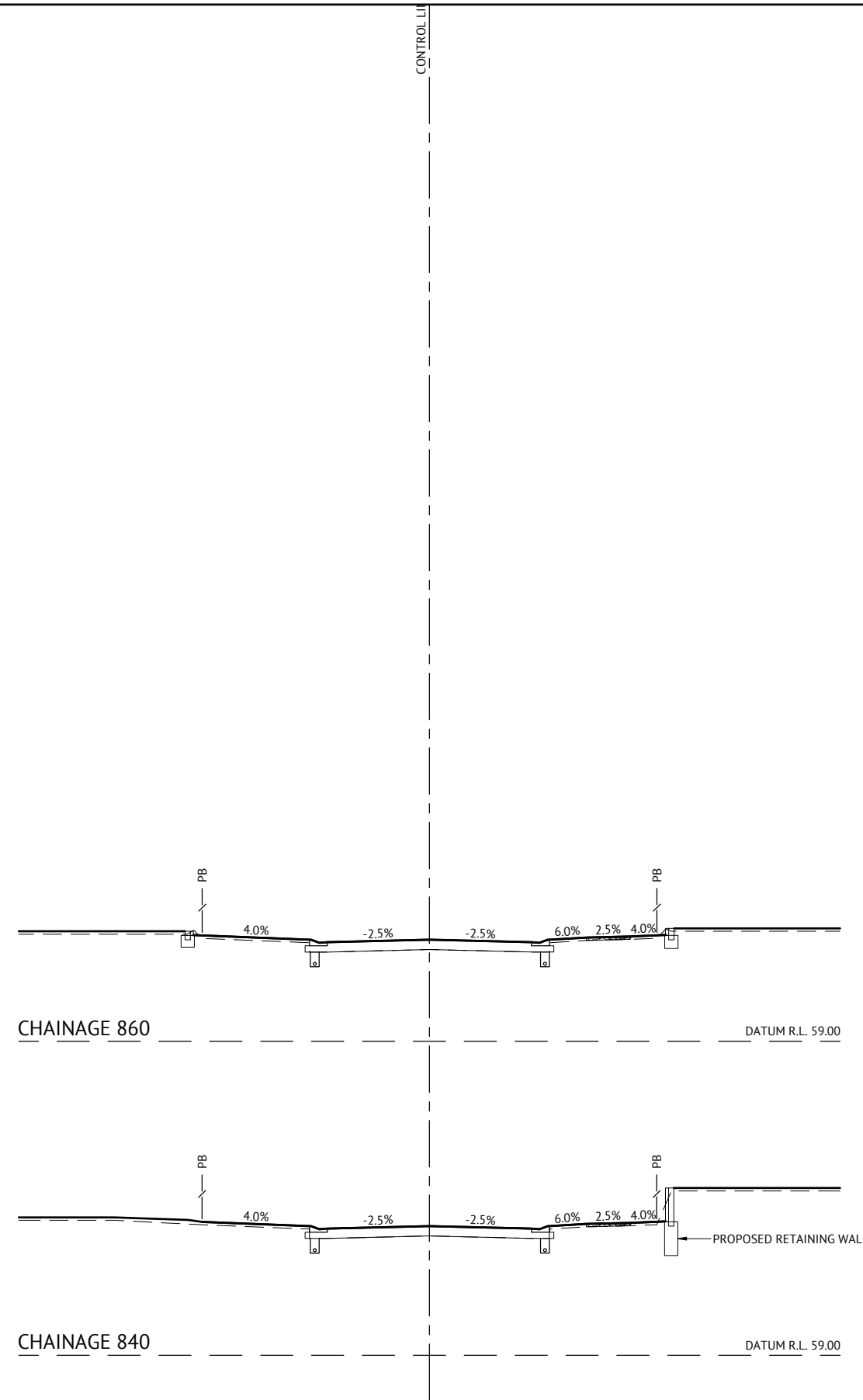
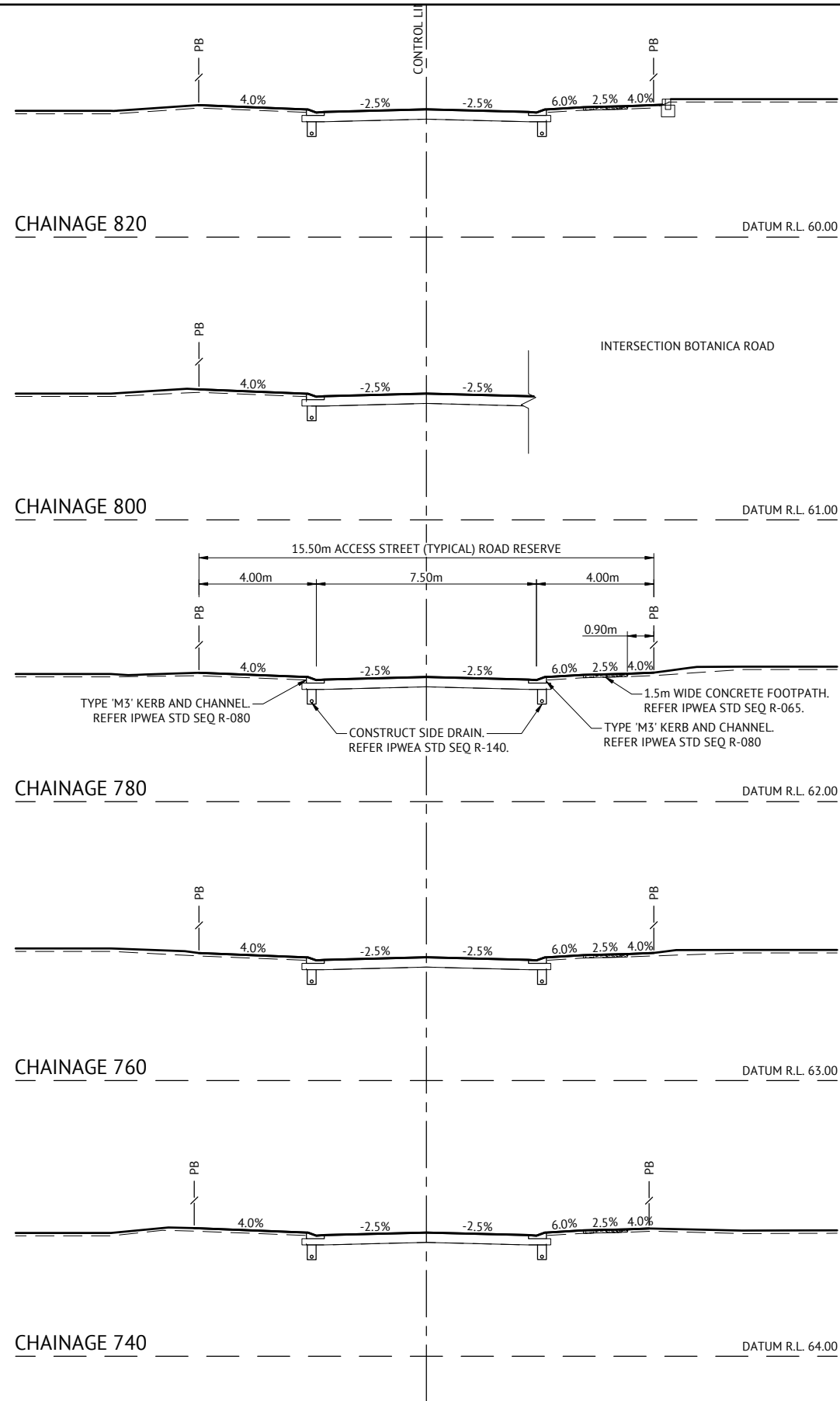
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 RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**MOSS STREET CROSS SECTIONS - SHEET 1 OF 2**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C311**  
 REV  
**B**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
			REC	APP



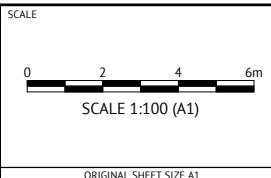
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 PROJECT DIRECTOR  
  
 PATRICK BRADY RPEQ 7112

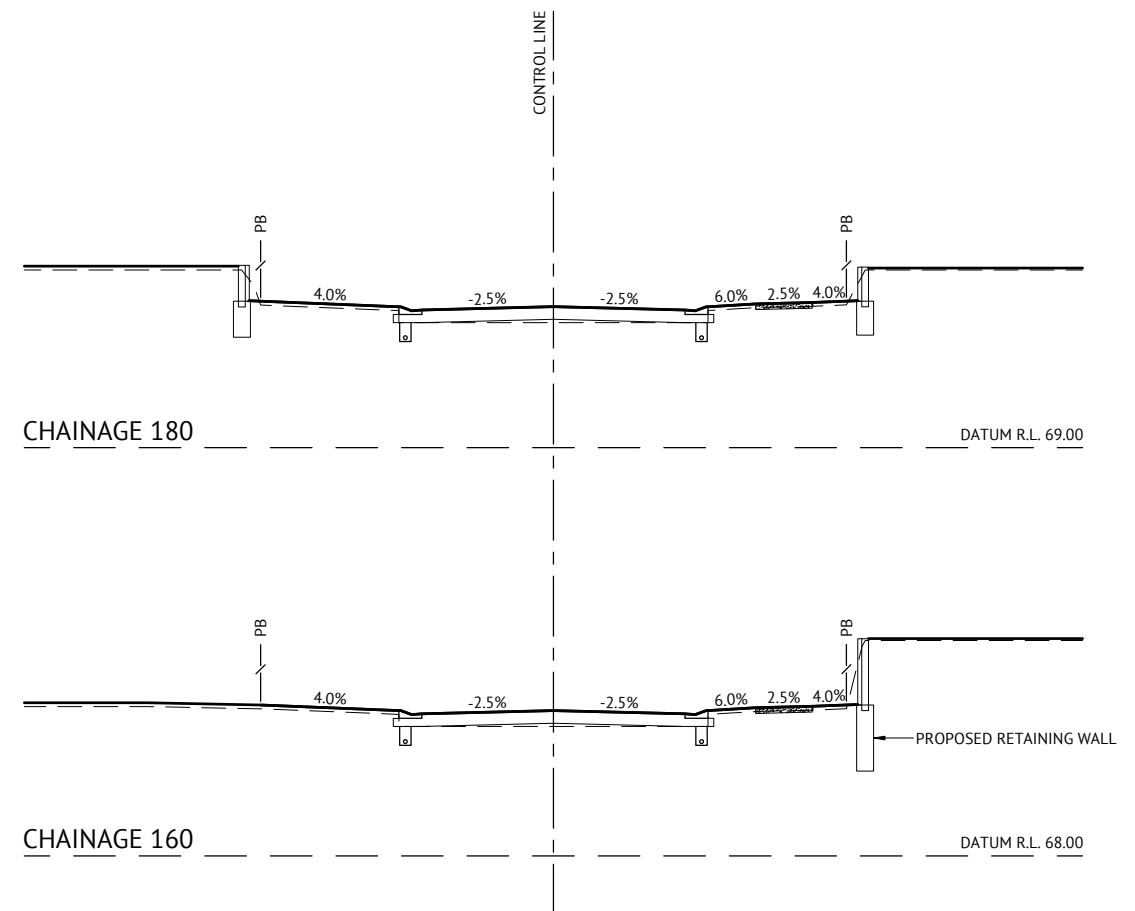
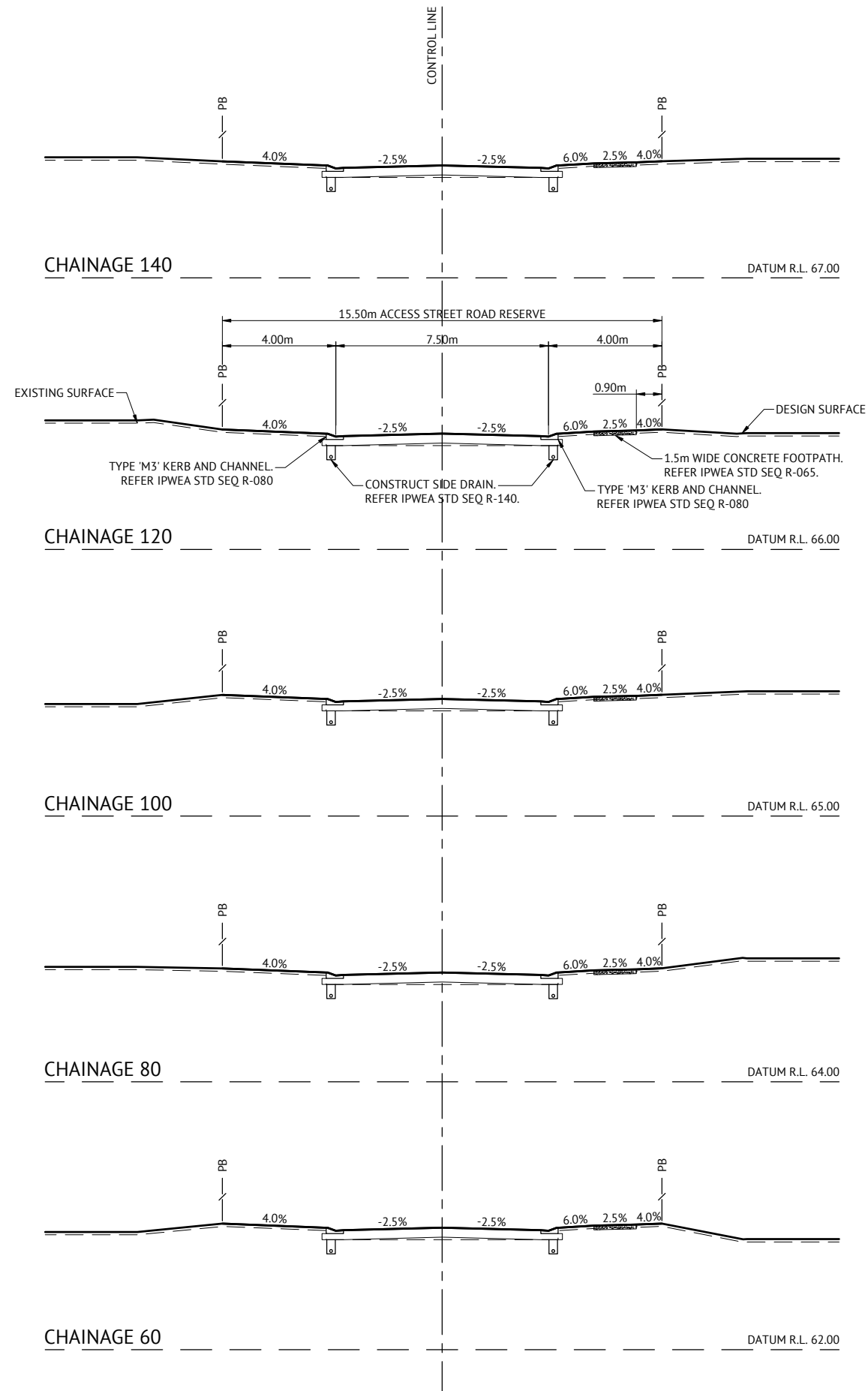


CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**MOSS STREET CROSS SECTIONS - SHEET 2 OF 2**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C312**  
 REV  
**B**







**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
05/09/2021	A	ORIGINAL ISSUE	KK	PB
			REC	APP

**Premise**  
 BRISBANE OFFICE  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED  
K KIWANG  
 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
PATRICK BRADY  
 RPEQ 7112

SCALE  
 0 2 4 6m  
 SCALE 1:100 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**RUSSETT STREET CROSS SECTIONS**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C314**  
 REV  
**B**

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- BOTANICA ROAD
CLASS	- ACCESS STREET (TYPICAL)
ESA's	- 5.90 x 10 <sup>5</sup>
SURFACE	- 35mm AC of 10mm MIX
PRIMER TYPE	- PRIME
CBR 80	- 150mm
CBR 45	- 150mm
TOTAL BOX	- 335mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

\* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)

Vertical Grade Length (m)

Vertical Curve Length (m)

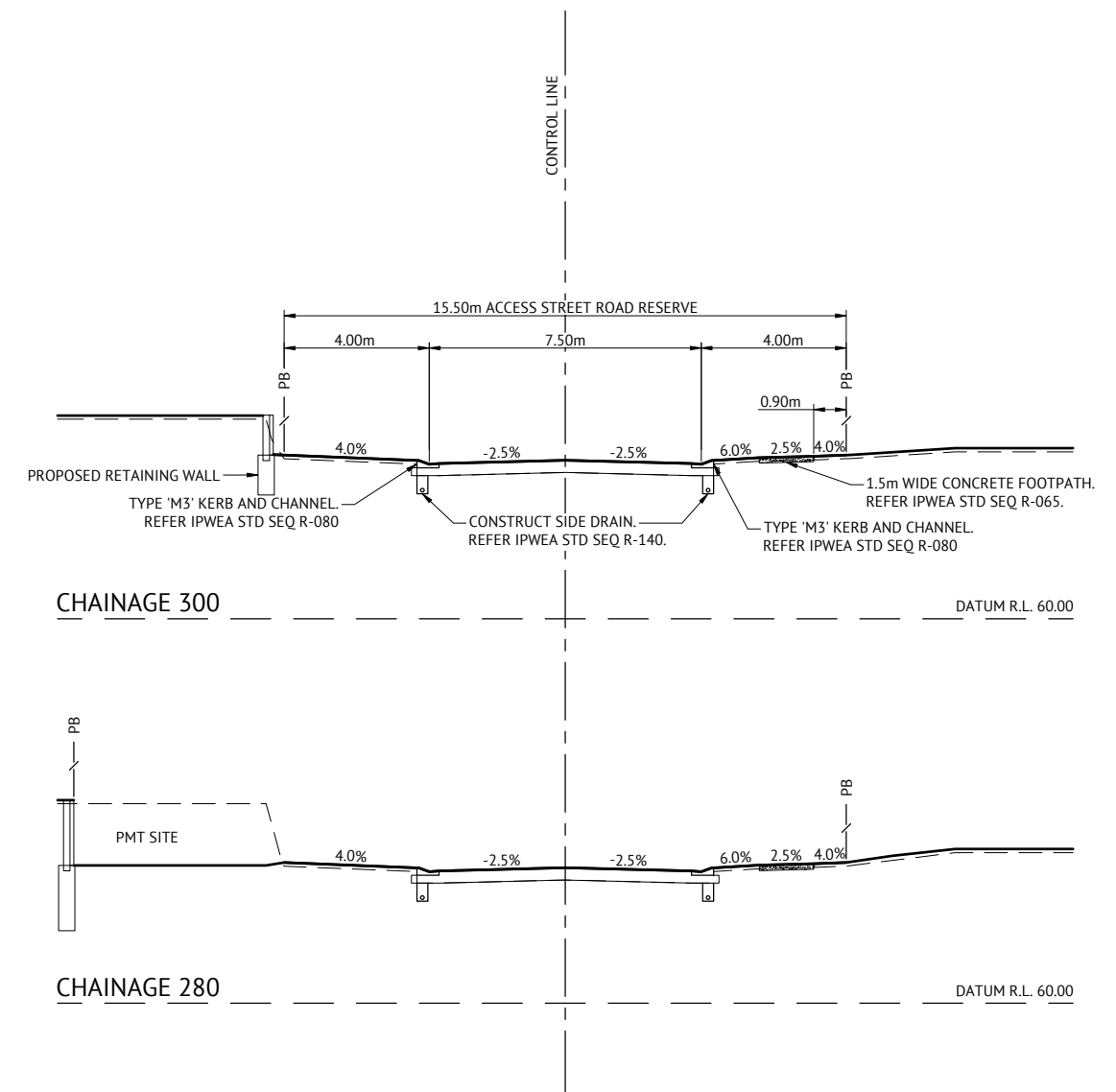
Vertical Curve Radius (m)

DATUM R.L.49.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000			55.078	55.078	0.00
-0.000			54.984	54.984	3.75
-0.000			54.876	54.876	12.40
0.000			54.917	54.917	17.75
0.000			54.952	54.952	20.00
0.000			55.762	55.762	40.00
0.000			55.299	55.299	42.40
0.000			55.698	55.698	60.00
0.000			56.460	56.460	80.00
0.000			56.573	56.573	82.40
0.000			57.377	57.377	97.40
0.000			57.527	57.527	100.00
0.000			58.167	58.167	112.40
0.000			58.521	58.521	120.00
0.000			59.163	59.163	133.81
0.000			59.447	59.447	140.00
0.000			60.309	60.309	160.00
0.000			61.087	61.087	180.00
0.000			61.225	61.225	183.81
0.000			61.808	61.808	200.00
0.000			62.235	62.235	211.89
0.000			62.390	62.390	216.19
0.000			62.519	62.519	220.00
0.000			62.849	62.849	233.49
0.000			62.891	62.891	236.19
0.000			62.944	62.944	240.00
0.000			63.088	63.088	250.19
0.000			63.185	63.185	257.11
0.000			63.216	63.216	259.19
0.000			63.230	63.230	260.00
0.000			63.624	63.624	276.53
0.335			63.642	63.642	277.11
0.335			63.733	63.733	280.00
0.335			64.026	64.026	299.84
0.335			64.031	64.031	300.00
0.335			64.172	64.172	304.65
0.335			64.315	64.315	309.71
0.335			64.422	64.422	313.84
0.335			64.516	64.516	317.59

**BOTANICA ROAD LONGITUDINAL SECTION**

SCALE 1:1000(H) 1:100(V)



**BOTANICA ROAD CROSS SECTIONS**

SCALE 1:100

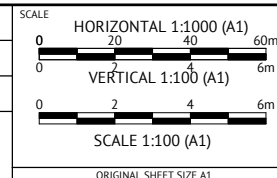
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		



**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED  
K KIWANG  
 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
P Brady  
 PATRICK BRADY RPEQ 7112



CLIENT  
 PROJECT  
 LOCATION  
 SHEET TITLE

**MIRVAC QLD PTY LTD**  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
**TEVIOT ROAD, GREENBANK**  
**BOTANICA ROAD LONG & CROSS SECTIONS**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C315**  
 REV  
**B**

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- KESSELS BOULEVARD
CLASS	- NEIGHBOURHOOD CONNECTOR 2
ESA's	- 6.40 x 10 <sup>6</sup>
SURFACE	- 50mm AC of 14mm MIX
PRIME	- PRIMER SEAL
CBR 80	- 300mm
CBR 45	- 100mm
TOTAL BOX	- 450mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

\* REFER TO INTERSECTION DETAILS PLANS

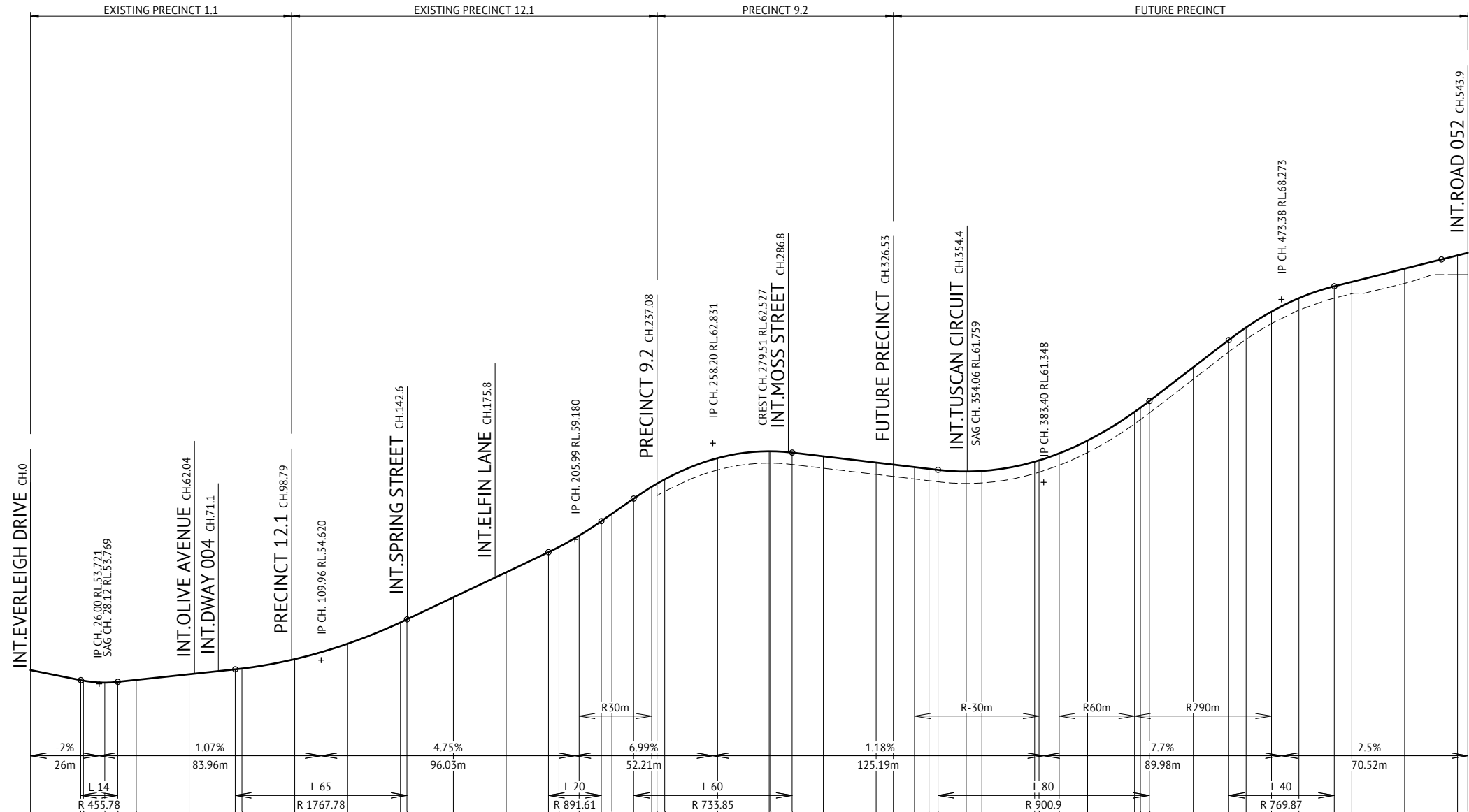
Horiz Curve Data

Vertical Geometry Grade (%)  
Vertical Grade Length (m)

Vertical Curve Length (m)  
Vertical Curve Radius (m)

DATUM R.L.48.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000			54.241	54.241	0.00
0.000			53.861	53.861	19.00
0.000			53.842	53.842	20.00
0.000			53.769	53.769	28.12
0.000			53.796	53.796	33.00
0.000			53.871	53.871	40.00
0.000			54.085	54.085	60.00
0.000			54.272	54.272	77.46
0.000			54.301	54.301	80.00
0.000			54.657	54.657	100.00
0.000			55.240	55.240	120.00
0.000			56.048	56.048	140.00
0.000			56.164	56.164	142.46
0.000			56.996	56.996	160.00
0.000			57.946	57.946	180.00
0.000			58.706	58.706	195.99
0.000			58.905	58.905	200.00
0.000			59.332	59.332	207.59
0.000			59.880	59.880	215.99
0.000			60.160	60.160	220.00
0.000			60.733	60.733	228.20
0.000			61.182	61.182	235.08
0.000			61.300	61.300	237.08
0.450			61.463	61.463	240.00
0.450			62.268	62.268	260.00
0.450			62.527	62.527	279.51
0.450	*		62.527	62.527	280.00
0.450			62.475	62.475	288.20
0.450			62.336	62.336	300.00
0.450			62.099	62.099	320.00
0.450			62.022	62.022	326.53
0.450			61.927	61.927	334.52
0.450			61.862	61.862	340.00
0.450			61.822	61.822	343.40
0.450			61.759	61.759	354.06
0.450			61.778	61.778	360.00
0.450			62.132	62.132	380.00
0.450			62.181	62.181	381.64
0.450			62.446	62.446	389.26
0.450			62.950	62.950	400.00
0.450			64.014	64.014	417.81
0.450			64.171	64.171	420.00
0.450			64.426	64.426	423.40
0.450			65.704	65.704	440.00
0.450			66.734	66.734	453.38
0.450			67.215	67.215	460.00
0.450			67.811	67.811	469.59
0.450			68.322	68.322	480.00
0.450			68.773	68.773	493.38
0.450			68.958	68.958	500.00
0.557			69.438	69.438	520.00
0.726			69.958	69.958	540.00
0.823			70.036	70.036	543.90

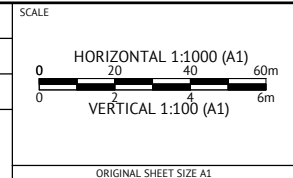


FOR CONSTRUCTION



**BRISBANE OFFICE**  
LEVEL 1, 100 BRUNSWICK STREET  
PO BOX 361  
FORTITUDE VALLEY, QLD 4006  
PH: (07) 3253 2222  
WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**KESSELS BOULEVARD LONG & CROSS SECTIONS**

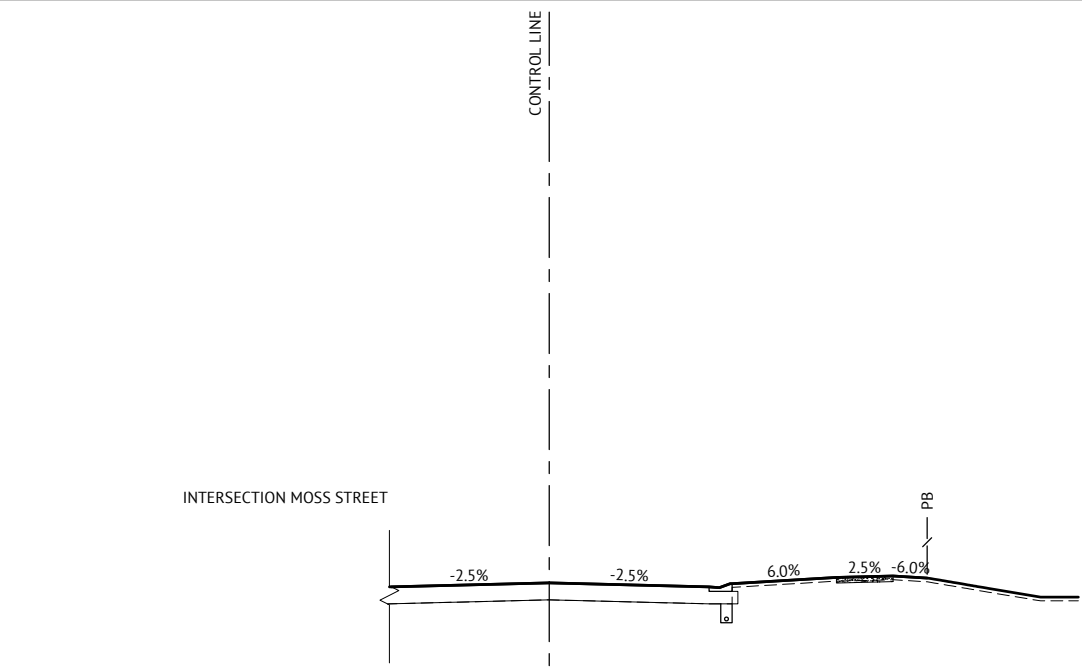
JOB CODE  
**MIR009-02**

SHEET NUMBER  
**C316**

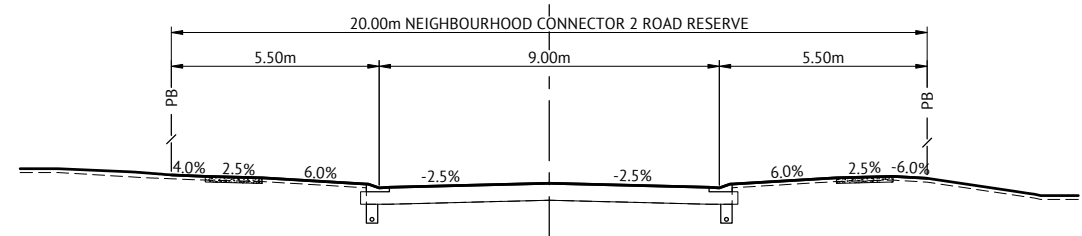
REV  
**B**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

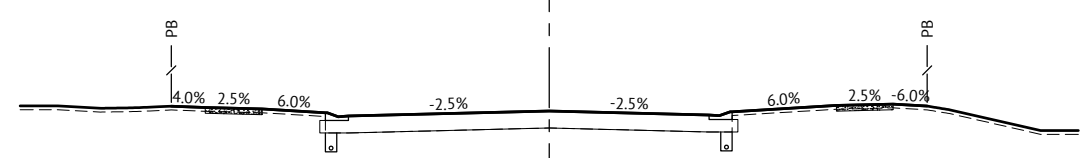




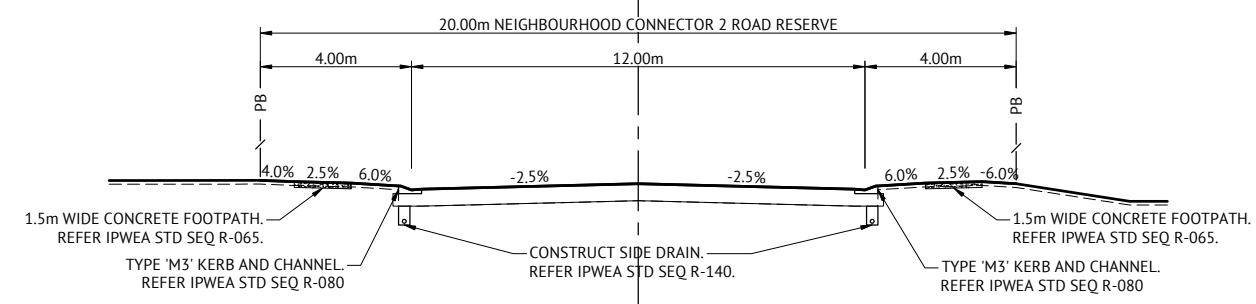
CHAINAGE 280 DATUM R.L. 58.00



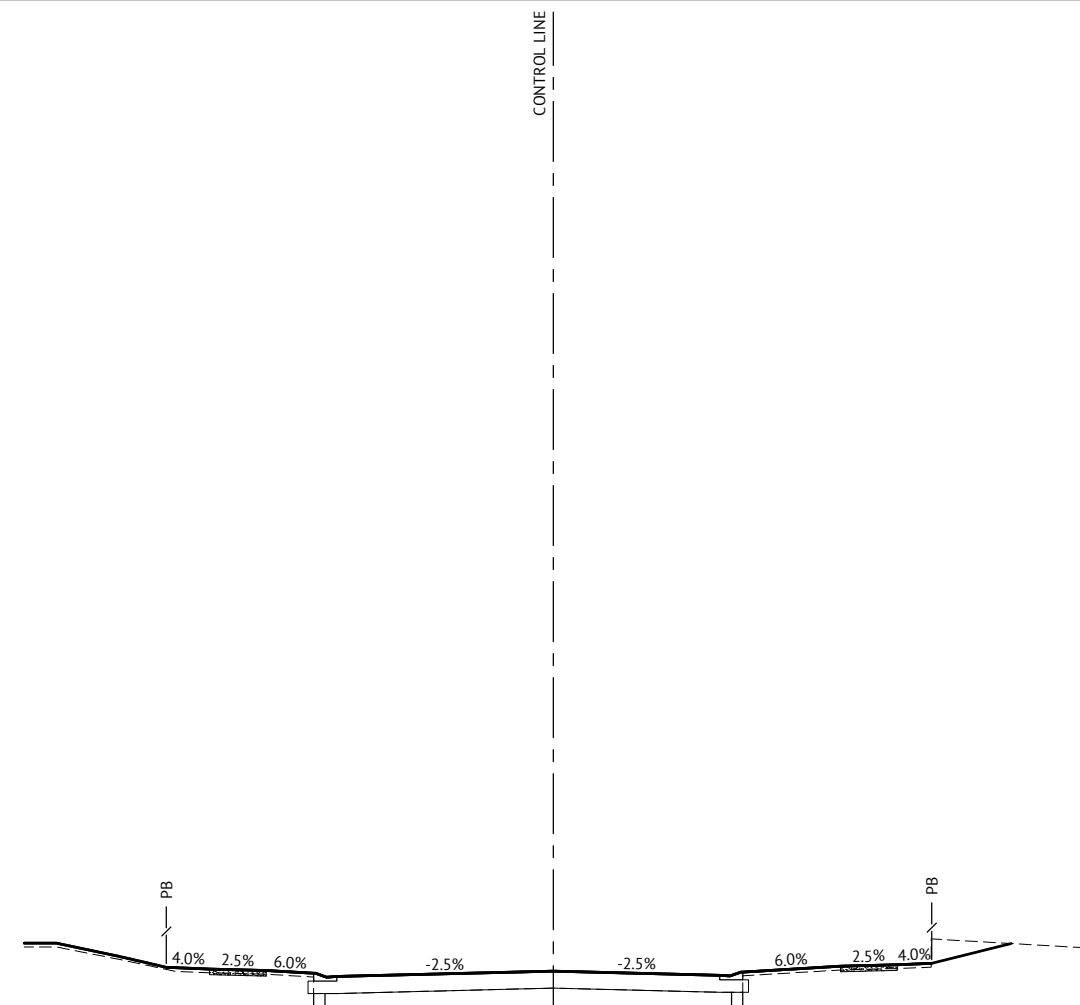
CHAINAGE 270 DATUM R.L. 58.00



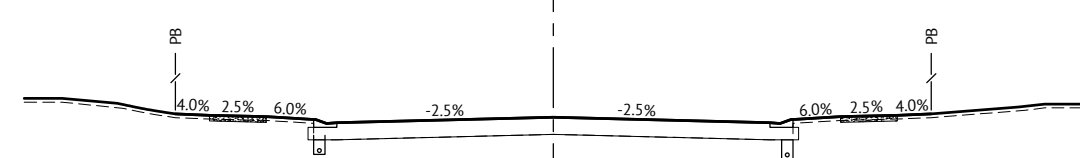
CHAINAGE 260 DATUM R.L. 58.00



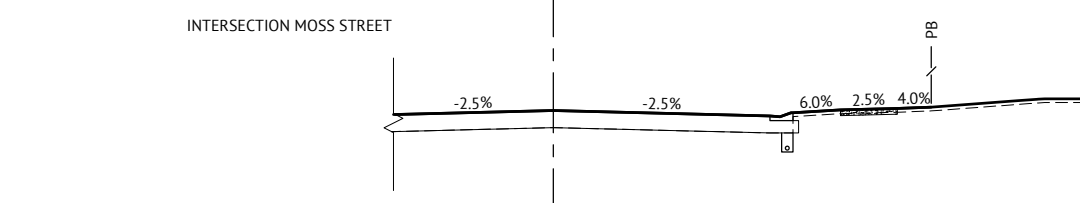
CHAINAGE 240 DATUM R.L. 57.00



CHAINAGE 340 DATUM R.L. 58.00



CHAINAGE 320 DATUM R.L. 58.00



CHAINAGE 300 DATUM R.L. 58.00

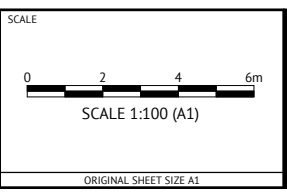
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		



**BRISBANE OFFICE**  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED  
K KIWANG  
 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
  
 PATRICK BRADY RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**DRIVEWAY 5 LONG & CROSS SECTIONS**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C317**  
 REV  
**B**

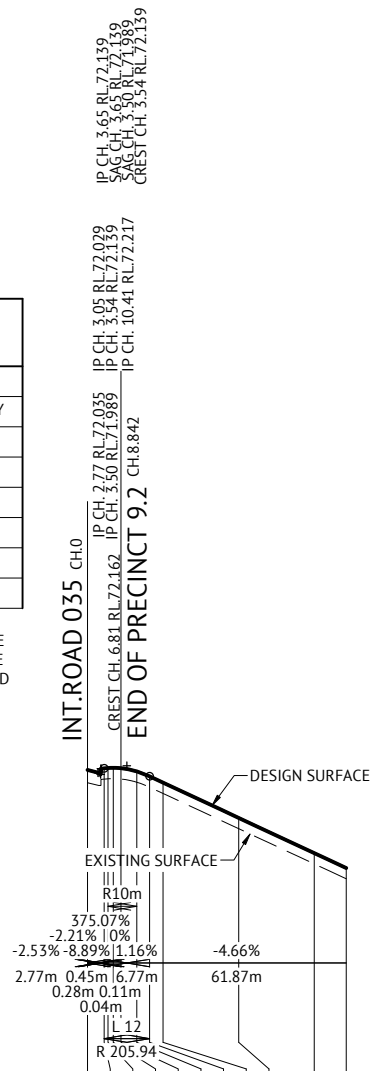
PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	DRIVEWAY 5
CLASS	-	REAR ACCESS DRIVEWAY
ESA's	-	1.1 x 10 <sup>5</sup>
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	100mm
TOTAL BOX	-	285mm

CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING

\* REFER TO INTERSECTION DETAILS PLANS

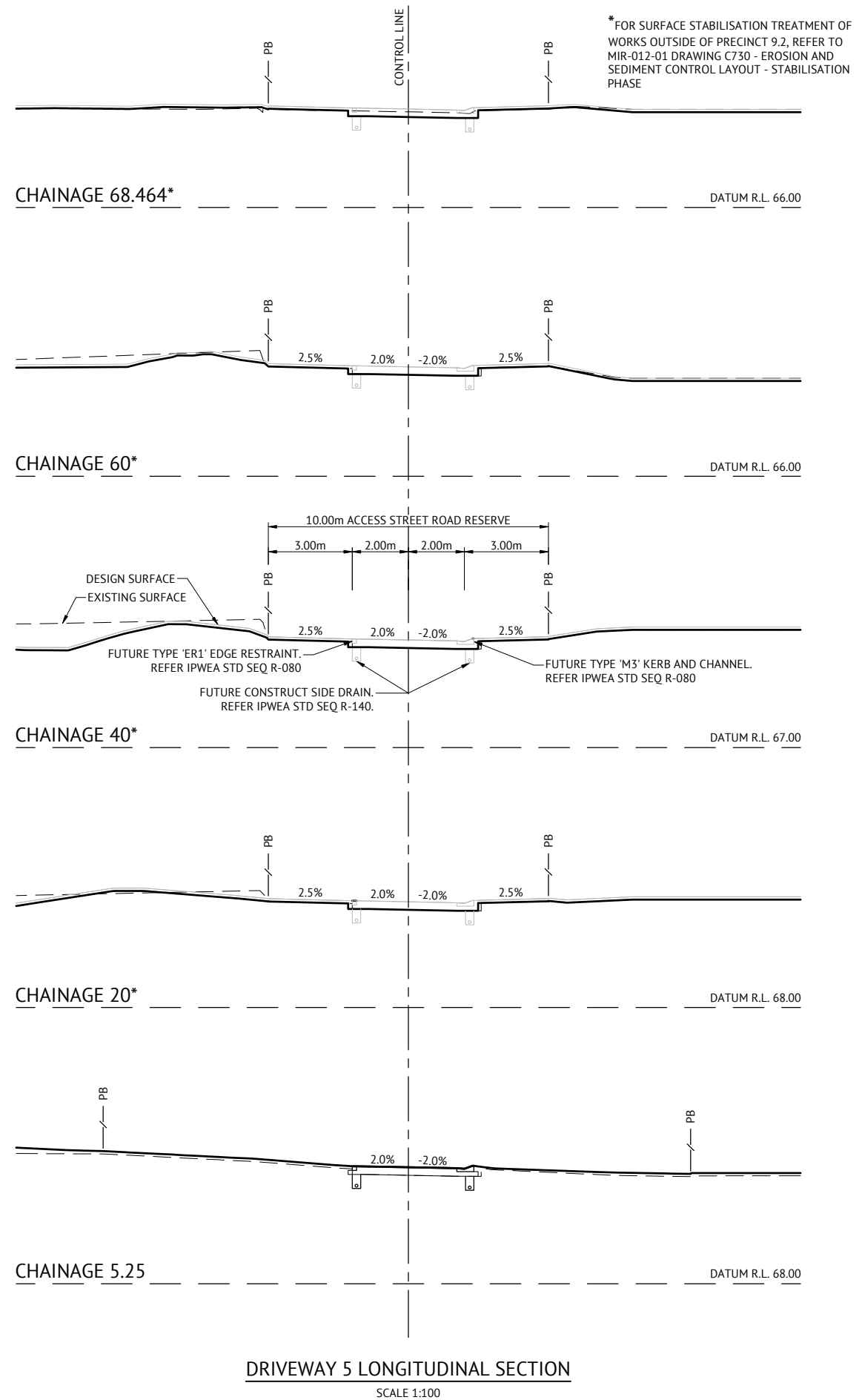
Horiz Curve Data

Vertical Geometry Grade (%)  
 Vertical Grade Length (m)  
 Vertical Curve Length (m)  
 Vertical Curve Radius (m)



CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.335	*	*	72.105	71.770	0.00
0.285			72.148	71.863	4.41
0.285			72.157	71.872	5.42
0.285			72.162	71.877	6.81
0.001			72.151	72.150	8.84
0.285			72.067	71.782	13.04
0.285			71.938	71.653	16.41
0.285			71.770	71.485	20.00
0.285			70.838	70.553	40.00
0.285			69.906	69.621	60.00
0.285			69.511	69.226	68.46

DRIVEWAY 5 LONGITUDINAL SECTION  
 SCALE 1:1000(H) 1:100(V)



DRIVEWAY 5 LONGITUDINAL SECTION  
 SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

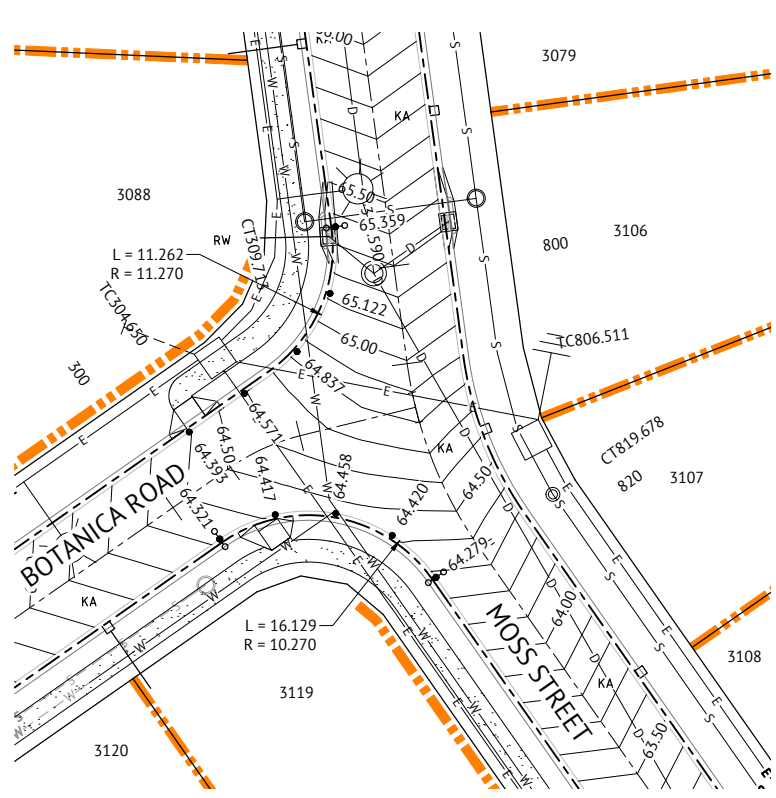
**Premise**  
 BRISBANE OFFICE  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED: K KIWANG  
 CHECKED: A LANGDON  
 PROJECT MANAGER: S STEINHOFER  
 PROJECT DIRECTOR: PATRICK BRADY  
 RPEQ 7112

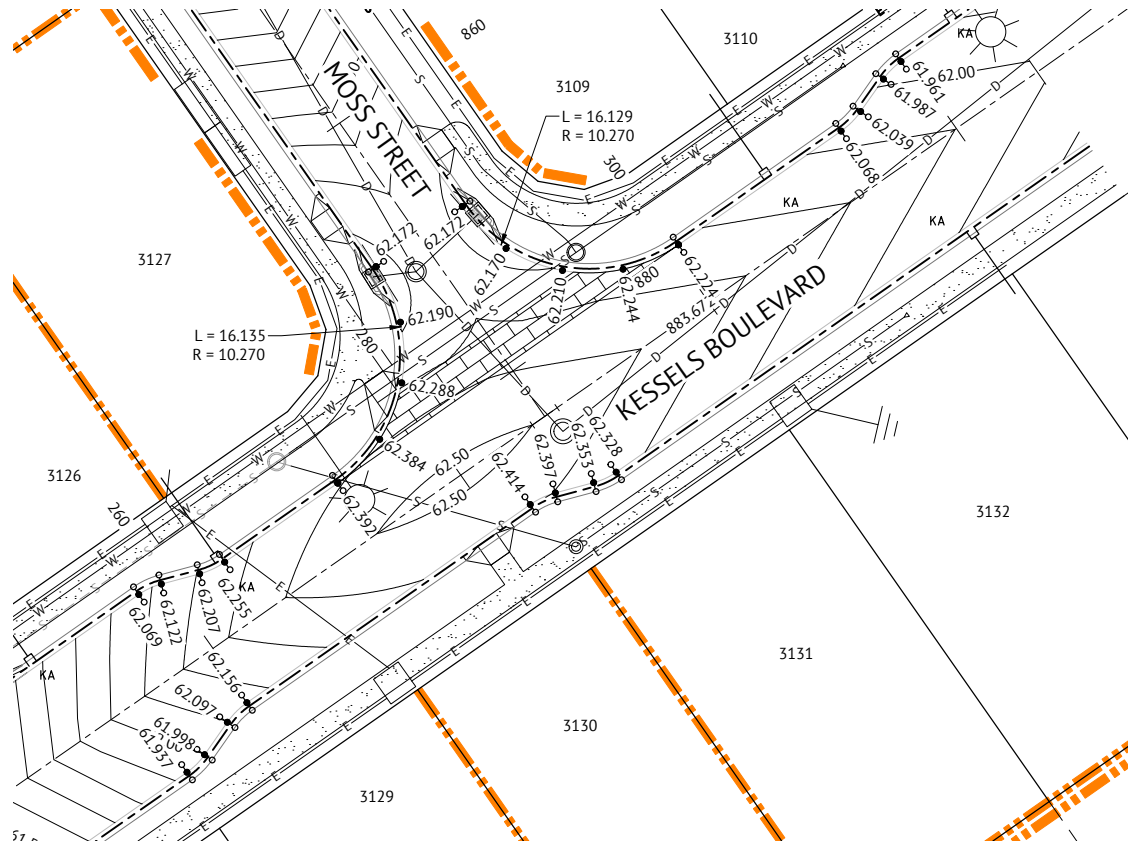
SCALE: HORIZONTAL 1:1000 (A1)  
 VERTICAL 1:100 (A1)  
 SCALE 1:100 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD  
 PROJECT: EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT  
 LOCATION: TEVIOT ROAD, GREENBANK  
 SHEET TITLE: DRIVEWAY 5 LONG & CROSS SECTIONS

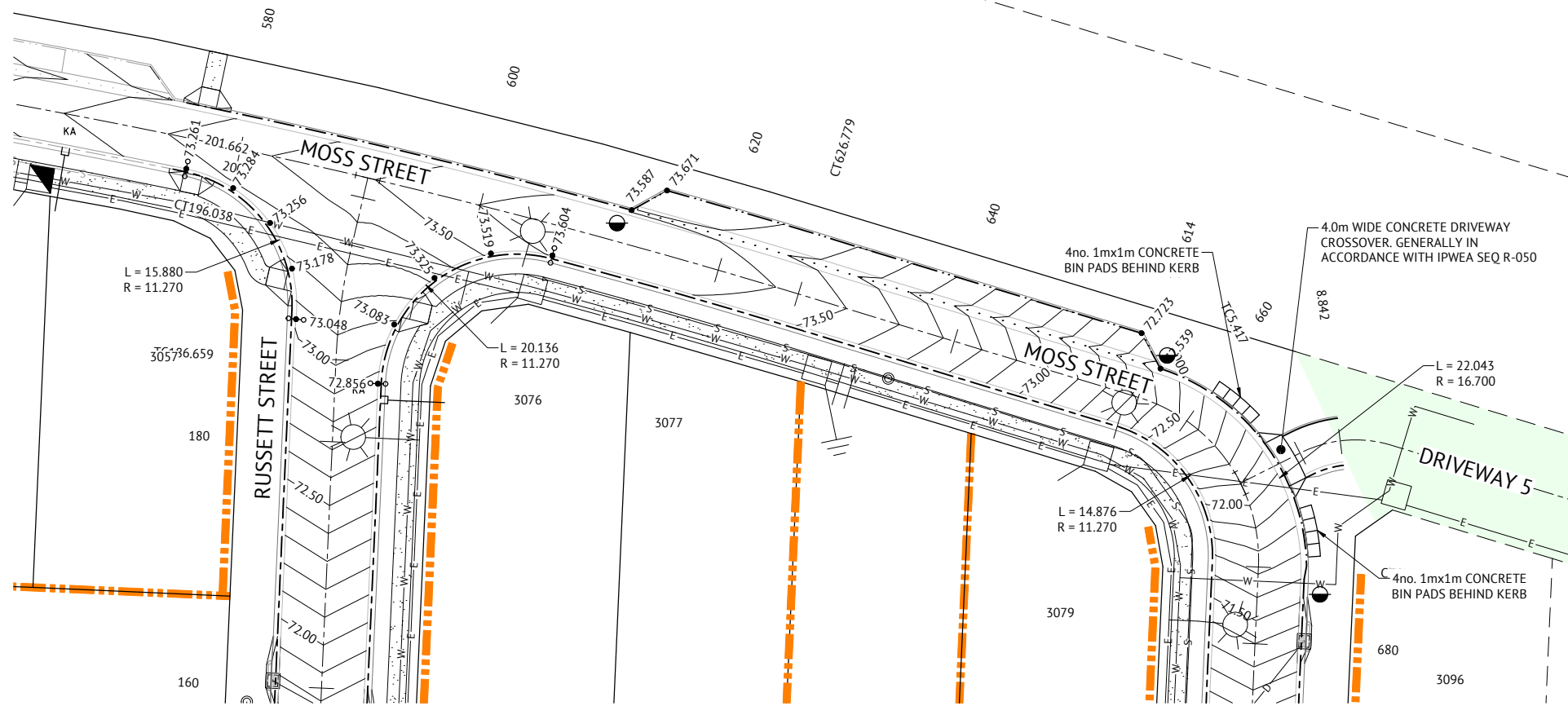
JOB CODE: MIR009-02  
 SHEET NUMBER: C318  
 REV: B



**INTERSECTION MOSS STREET AND BOTANICA ROAD**



**INTERSECTION KESSELS BOULEVARD & MOSS STREET**



**INTERSECTION MOSS STREET & RUSSETT STREET AND MOSS STREET & DRIVEWAY 5**

**LEGEND**

- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO)  
REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP.  
REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB ONLY.  
REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'IN' CHANNEL.  
REFER IPWEA STD DWG RS-080.
- LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- PROPOSED STORMWATER
- PROPOSED SEWER
- PROPOSED WATER

**EXISTING - LEGEND**

- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING ELECTRICAL
- EXISTING TELSTRA
- EXISTING GAS
- EXISTING SEWER RISING MAIN

**NOTE**

LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
			REC	APP

**Premise**  
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K KIWANG  
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 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
  
 PATRICK BRADY RPEQ 7112

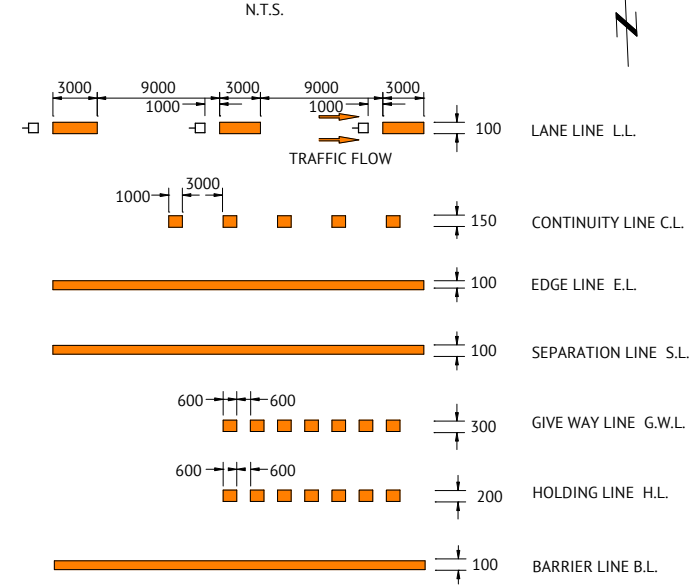
SCALE  
  
 SCALE 1:250 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**INTERSECTION DETAILS LAYOUT**

JOB CODE <b>MIR009-02</b>	
SHEET NUMBER <b>C320</b>	REV <b>B</b>



**TYPICAL LINEMARKING LEGEND**



**LINEMARKING NOTES**

- PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS) AND THE SPECIFIC REQUIREMENTS OF REFERENCE SPECIFICATION S150 ROADWORKS. BRISBANE CITY COUNCIL'S SPECIFIC REQUIREMENTS ARE DETAILED ON STANDARD DRAWINGS BSD-3151 TO BDS-3163.
- ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
- EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
- ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
- ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
- EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
- RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM's) SHALL BE PLACED 25mm TO 50mm FROM THE PAINTED LINEMARKING AND ORIENTATED SO THAT FULL REFLECTIVE EFFECT IS ACHIEVED BY AIMING THE REFLECTIVE FACE IN THE DIRECTION OF APPROACHING TRAFFIC.
- GENERALLY THE NORMAL SPACING BETWEEN RRPM'S IS TO BE 12.0m U.N.O.
- ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
- NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
- ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

**SIGNAGE NOTES**

- LOCATION OF SIGNS SHOWN INDICATED ON THIS PLAN ARE INDICATIVE ONLY. CARE AND CONSIDERATION IS TO BE GIVEN TO ON SITE CONDITIONS TO AVOID ANY VISUAL OBSTRUCTION OF THE SIGN ALONG THE INTENDED COURSE OF APPROACHING TRAFFIC. EXACT LOCATION OF ALL SIGNS SHALL BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
- SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
- SIGNAGE SHALL BE IN ACCORDANCE WITH:
  - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
  - AS1743 ROAD SIGNS SPECIFICATION
  - AS4049.1 PAVEMENT MARKING MATERIALS
- STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

**REQUIRED SIGNS**



**LEGEND**

- DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- AC SURFACE DRIVEWAY
- TACTILE GROUND SURFACE INDICATORS (TGSIs) TO BE INSTALLED AT ALL KERB RAMP ON MAJOR ROADS IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.1 (2009)

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

**BRISBANE OFFICE**  
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 BRISBANE, QLD 4000  
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DESIGNED  
**K KIWANG**

CHECKED  
**A LANGDON**

PROJECT MANAGER  
**S STEINHOFFER**

PROJECT DIRECTOR  
**PATRICK BRADY**

RPEQ 7112

SCALE

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2**

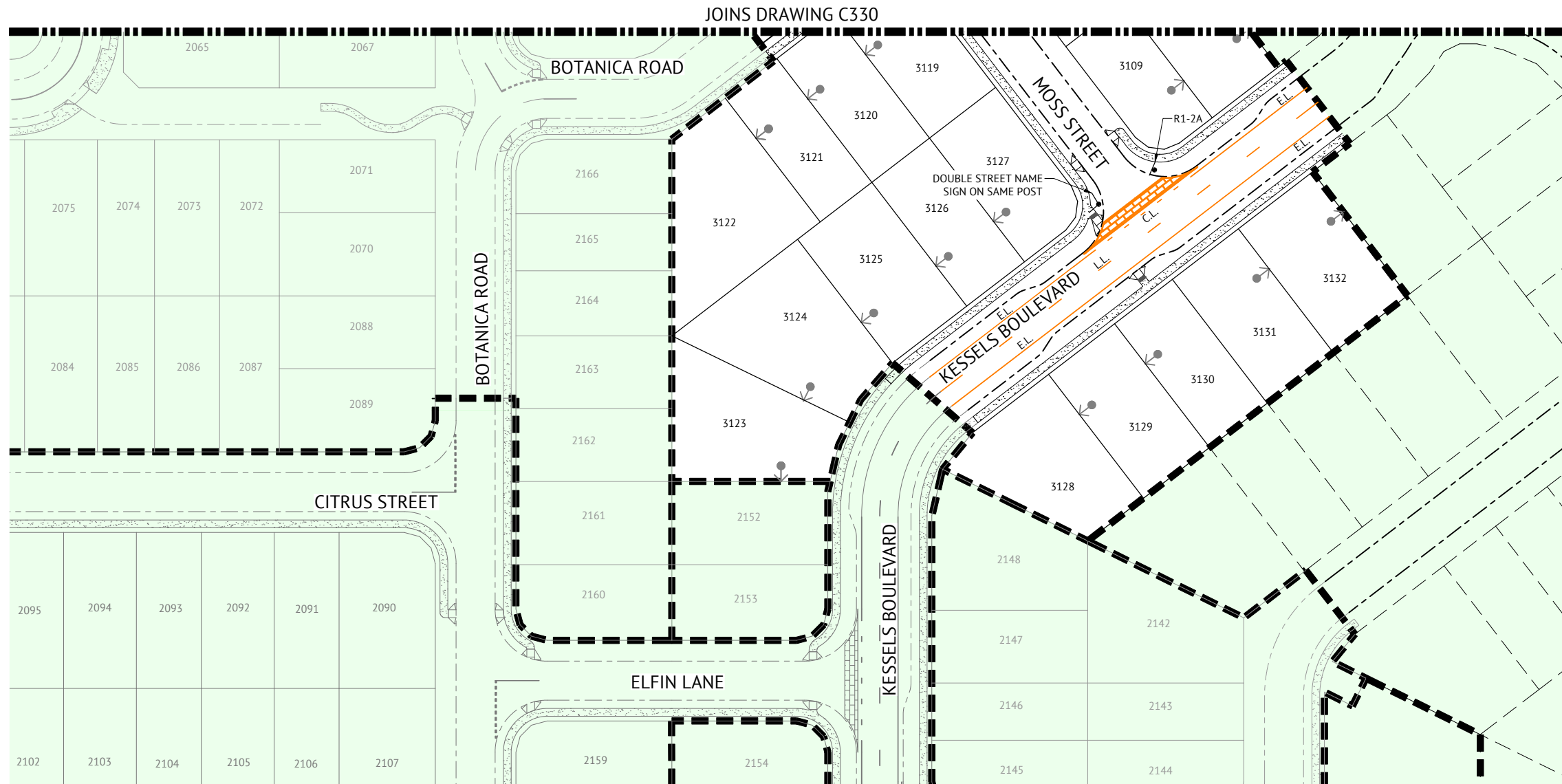
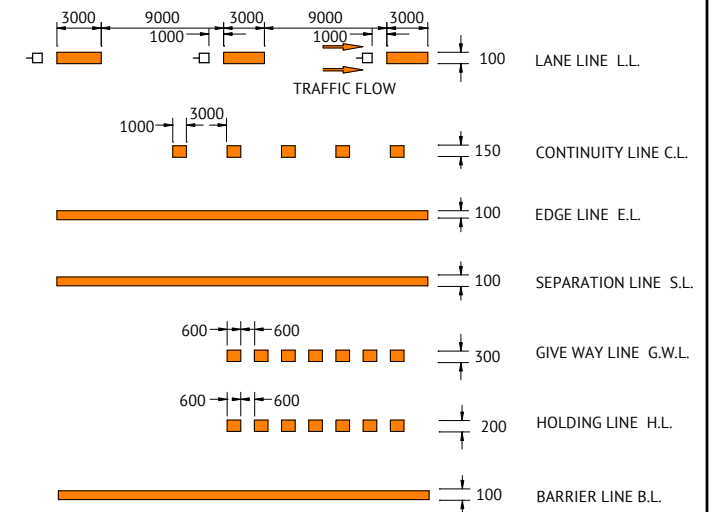
JOB CODE  
**MIR009-02**

SHEET NUMBER	REV
<b>C330</b>	<b>B</b>



**TYPICAL LINEMARKING LEGEND**

N.T.S.



JOINS DRAWING C330

**LINEMARKING NOTES**

- PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS) AND THE SPECIFIC REQUIREMENTS OF REFERENCE SPECIFICATION S150 ROADWORKS. BRISBANE CITY COUNCILS SPECIFIC REQUIREMENTS ARE DETAILED ON STANDARD DRAWINGS BSD-3151 TO BDS-3163.
- ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
- EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
- ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
- ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
- EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
- RETRO-REFLECTIVE RAISED PAVEMENT MARKERS (RRPM'S) SHALL BE PLACED 25mm TO 50mm FROM THE PAINTED LINEMARKING AND ORIENTATED SO THAT FULL REFLECTIVE EFFECT IS ACHIEVED BY AIMING THE REFLECTIVE FACE IN THE DIRECTION OF APPROACHING TRAFFIC.
- GENERALLY THE NORMAL SPACING BETWEEN RRPM'S IS TO BE 12.0m U.N.O.
- ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
- NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
- ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

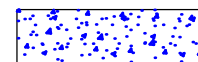
**SIGNAGE NOTES**

- LOCATION OF SIGNS SHOWN INDICATED ON THIS PLAN ARE INDICATIVE ONLY. CARE AND CONSIDERATION IS TO BE GIVEN TO ON SITE CONDITIONS TO AVOID ANY VISUAL OBSTRUCTION OF THE SIGN ALONG THE INTENDED COURSE OF APPROACHING TRAFFIC. EXACT LOCATION OF ALL SIGNS SHALL BE CONFIRMED ON SITE PRIOR TO INSTALLATION.
- SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
- SIGNAGE SHALL BE IN ACCORDANCE WITH:
  - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
  - AS1743 ROAD SIGNS SPECIFICATION
  - AS4049.1 PAVEMENT MARKING MATERIALS
- STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

**LEGEND**



DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.



CONCRETE DRIVEWAY



TACTILE GROUND SURFACE INDICATORS (TGSIS) TO BE INSTALLED AT ALL KERB RAMPS ON MAJOR ROADS IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.1 (2009)

**REQUIRED SIGNS**



R1-2A



R2-3A(L)

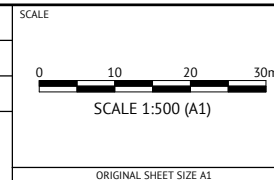
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB



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**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*Patrick Brady*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

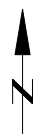
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2**

JOB CODE  
**MIR009-02**

SHEET NUMBER	REV
<b>C331</b>	<b>B</b>



**LEGEND**

- PROPOSED STORMWATER CATCHMENT BOUNDARY.
- 1/A  
0.2311ha  
STORMWATER CATCHMENT NUMBER AND AREA
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- FINISHED CONTOURS (0.50m)
- FINISHED CONTOURS (0.25m)
- EXISTING CONTOURS (0.50m)

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
			REC	APP

**BRISBANE OFFICE**  
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**K KIWANG**  
 CHECKED  
**A LANGDON**  
 PROJECT MANAGER  
**S STEINHOFER**  
 PROJECT DIRECTOR  
  
**PATRICK BRADY** RPEQ 7112

SCALE  
  
 SCALE 1:750(A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**STORMWATER CATCHMENT LAYOUT**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C400**  
 REV  
**B**



STRUCTURE NAME	1/528	2/528	3/528	4/528	TE/528
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	EXISTING PIPE END
PIPE SIZE (mm)	375	375	375	375	
PIPE CLASS	2	2	2	2	
PIPE GRADE (%)	1.93%	4.29%	5.02%	6.20%	
PIPE SLOPE (1 in X)	51.9	23.3	19.9	16.1	
FULL PIPE VELOCITY (m/s)	0.20	0.42	0.79	1.16	
PART FULL VELOCITY (m/s)	1.37	2.26	2.86	3.44	
PIPE FLOW (cumecs)	0.022	0.046	0.087	0.128	
PIPE CAPACITY AT GRADE (cumecs)	0.243	0.363	0.393	0.437	
DATUM RL	55.0				
WSE IN STRUCTURE	70.586	70.447	68.183	67.264	64.460
HGL IN PIPE	70.566	70.445	68.183	67.510	64.460
DEPTH OF INVERT BELOW FSL	1.317	1.315	1.348	1.356	1.434
INVERT LEVEL	70.461	70.288	67.899	66.816	64.196
FINISHED (& EXISTING) SURFACE LEVEL	71.778 (78.216)	71.603 (78.366)	69.748 (76.333)	68.746 (75.323)	65.631 (70.226)
CHAINAGE	0.000	8.966	52.405	10.164	42.250

# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER

\* SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.

CONNECT INTO EXISTING STORMWATER LINE.

STRUCTURE NAME	1/529	2/529
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	EXISTING IPWEA KERB INLET L.L.I.; 2.4m Lintel
PIPE SIZE (mm)	375	375
PIPE CLASS	2	2
PIPE GRADE (%)	2.03%	5.00%
PIPE SLOPE (1 in X)	49.2	20.0
FULL PIPE VELOCITY (m/s)	0.33	0.26
PART FULL VELOCITY (m/s)	1.62	2.08
PIPE FLOW (cumecs)	0.037	0.029
PIPE CAPACITY AT GRADE (cumecs)	0.250	0.392
DATUM RL	48.0	44.0
WSE IN STRUCTURE	62.562	60.324
HGL IN PIPE	62.507	60.290
DEPTH OF INVERT BELOW FSL	1.345	1.407
INVERT LEVEL	62.368	60.168
FINISHED (& EXISTING) SURFACE LEVEL	63.714 (66.734)	60.186 (59.636)
CHAINAGE	11.817	24.869

EXISTING

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

STRUCTURE NAME	1/546	1A/546	1B/546	2/546	3/546	4/546	5/546
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1800mm DIA
PIPE SIZE (mm)	375	375	375	375	375	375	450
PIPE CLASS	2	2	2	2	2	2	2
PIPE GRADE (%)	5.00%	2.54%	2.71%	3.16%	6.75%	3.50%	
PIPE SLOPE (1 in X)	20.0	39.4	36.9	31.7	14.8	28.6	
FULL PIPE VELOCITY (m/s)	0.28	0.32	0.32	0.32	1.07	1.31	
PART FULL VELOCITY (m/s)	2.11	1.73	1.77	1.87	3.46	3.14	
PIPE FLOW (cumecs)	0.031	0.035	0.035	0.035	0.118	0.208	
PIPE CAPACITY AT GRADE (cumecs)	0.392	0.279	0.289	0.312	0.456	0.534	
DATUM RL	50.0						
WSE IN STRUCTURE	69.370	67.712	67.565	67.261	66.295	61.812	60.194
HGL IN PIPE	69.342	68.283	67.698	67.251	66.295	61.812	59.983
DEPTH OF INVERT BELOW FSL	1.273	1.341	1.990	1.866	1.717	1.518	1.960
INVERT LEVEL	69.216	68.212	67.563	67.426	65.975	61.435	59.705
FINISHED (& EXISTING) SURFACE LEVEL	70.489 (73.823)	69.553 (72.579)	69.450 (72.392)	69.002 (71.987)	67.712 (69.607)	63.028 (64.067)	61.665 (61.821)
CHAINAGE	20.083	4.605	24.689	10.684	35.372	66.148	186.476

CONSTRUCT KERB INLET OVER EXISTING PIPE END.

SEWER 150mm IL 66.769 CLR 0.358

FUTURE

STRUCTURE NAME	1/556	4/528
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
PIPE SIZE (mm)	375	375
PIPE CLASS	2	2
PIPE GRADE (%)	1.04%	
PIPE SLOPE (1 in X)	96.1	
FULL PIPE VELOCITY (m/s)	0.38	
PART FULL VELOCITY (m/s)	1.32	
PIPE FLOW (cumecs)	0.042	
PIPE CAPACITY AT GRADE (cumecs)	0.179	
DATUM RL	55.0	
WSE IN STRUCTURE	67.956	67.264
HGL IN PIPE	67.885	67.781
DEPTH OF INVERT BELOW FSL	1.274	1.088
INVERT LEVEL	67.739	66.816
FINISHED (& EXISTING) SURFACE LEVEL	69.013 (75.705)	68.746 (75.323)
CHAINAGE	7.773	7.773

CONSTRUCT FIELD INLET OVER EXISTING PIPE END.

STRUCTURE NAME	1/563	2/563	3/563	4/563
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
PIPE SIZE (mm)	225	225	225	
PIPE CLASS	uPVC	uPVC	uPVC	
PIPE GRADE (%)	2.86%	5.00%	3.40%	
PIPE SLOPE (1 in X)	35.0	20.0	29.4	
FULL PIPE VELOCITY (m/s)	0.31	0.58	0.89	
PART FULL VELOCITY (m/s)	1.58	2.31	2.26	
PIPE FLOW (cumecs)	0.012	0.023	0.035	
PIPE CAPACITY AT GRADE (cumecs)	0.090	0.119	0.098	
DATUM RL	45.0			
WSE IN STRUCTURE	61.575	61.189	60.859	59.791
HGL IN PIPE	61.540	61.189	60.997	59.785
DEPTH OF INVERT BELOW FSL	1.101	1.101	1.157	1.357
INVERT LEVEL	61.449	61.049	60.595	59.643
FINISHED (& EXISTING) SURFACE LEVEL	62.550 (63.620)	62.150 (63.054)	61.750 (62.907)	61.000 (60.620)
CHAINAGE	14.000	1.992	27.924	43.916

LINE 528

LINE 529

LINE 536

LINE 546

LINE 556

LINE 563

**FOR CONSTRUCTION**

**BRISBANE OFFICE**  
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CHECKED  
A LANGDON

PROJECT MANAGER  
S STEINHOFER

PROJECT DIRECTOR  
PATRICK BRADY

RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)

VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT  
MIRVAC QLD PTY LTD

PROJECT  
EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT

LOCATION  
TEVIOT ROAD, GREENBANK

SHEET TITLE  
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 3

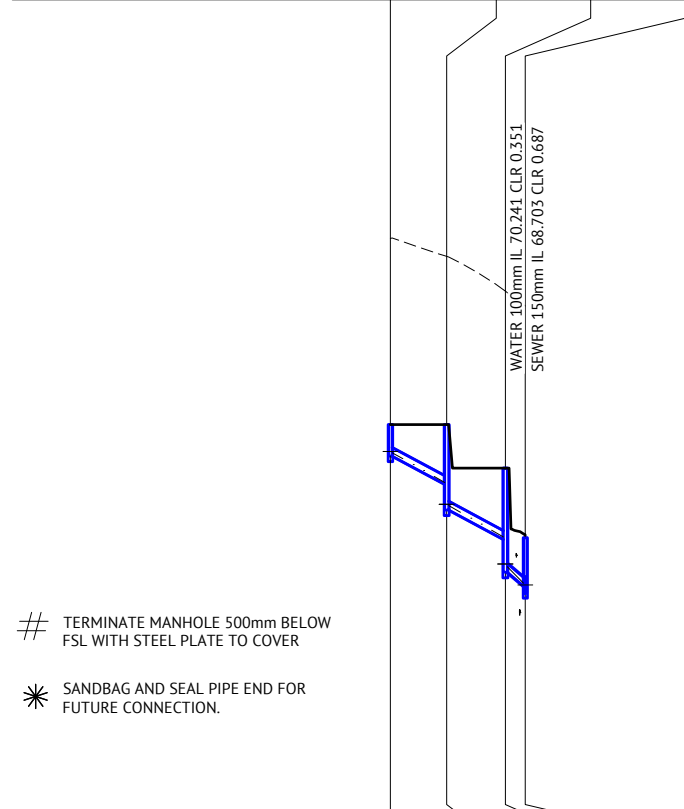
JOB CODE  
MIR009-02

SHEET NUMBER  
C410

REV  
B

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
03/09/2021	A	ORIGINAL ISSUE		

STRUCTURE NAME	1/556A	2/556A	3/556A	2/569
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 600x600 TYPE 2 ON 1050mm DIA MANHOLE	IPWEA FIELD INLET - 600x600 TYPE 2 ON 1050mm DIA MANHOLE	IPWEA KERB INLET L.L.I.; 2.4m Lintel

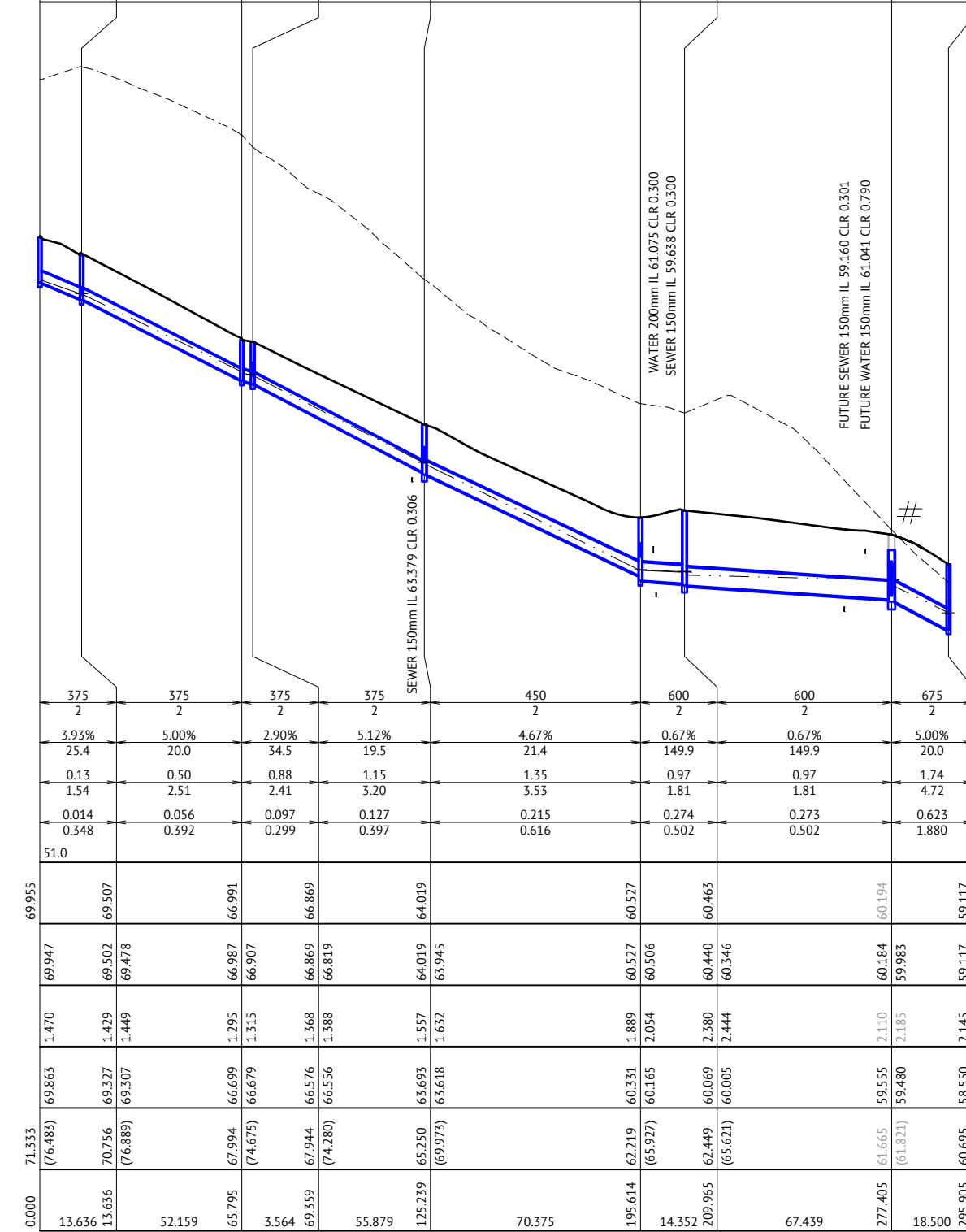


# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER  
 \* SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.

PIPE SIZE (mm)	225	225	225
PIPE CLASS	uPVC	uPVC	uPVC
PIPE GRADE (%)	5.00%	5.00%	7.00%
PIPE SLOPE (1 in X)	20.0	20.0	14.3
FULL PIPE VELOCITY (m/s)	0.30	0.51	0.74
PART FULL VELOCITY (m/s)	1.91	2.22	2.48
PIPE FLOW (cumecs)	0.012	0.020	0.029
PIPE CAPACITY AT GRADE (cumecs)	0.119	0.119	0.119
DATUM RL	57.0		

WSE IN STRUCTURE	73.038	71.644	70.064	69.507
HGL IN PIPE	73.006	72.220	70.779	69.553
DEPTH OF INVERT BELOW FSL	0.833	1.578	1.883	1.279
INVERT LEVEL	72.917	71.492	69.847	69.477
FINISHED (& EXISTING) SURFACE LEVEL	73.750 (78.673)	73.750 (78.199)	72.600 (77.281)	70.756 (76.889)
CHAINAGE	0.000	14.900	30.400	55.283

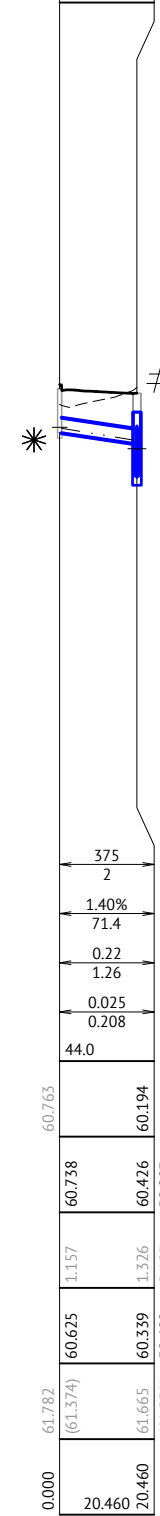
1/569	2/569	3/569	4/569	5/569	6/569	7/569	5/546	6/546
IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1800mm DIA	TEMPORARY HEADWALL OUTLET



375	375	375	375	450	600	600	675
2	2	2	2	2	2	2	2
3.93%	5.00%	2.90%	5.12%	4.67%	0.67%	0.67%	5.00%
25.4	20.0	34.5	19.5	21.4	149.9	149.9	20.0
0.13	0.50	0.88	1.15	1.35	0.97	0.97	1.74
1.54	2.51	2.41	3.20	3.53	1.81	1.81	4.72
0.014	0.056	0.097	0.127	0.215	0.274	0.273	0.623
0.348	0.392	0.299	0.397	0.616	0.502	0.502	1.880
51.0							

69.955	69.507	66.991	66.869	64.019	60.527	60.463	60.194	59.117
69.947	69.502	66.987	66.907	64.019	60.527	60.440	60.184	59.117
1.470	1.429	1.295	1.315	1.557	1.889	2.380	2.110	2.145
69.863	69.327	66.699	66.679	63.693	60.165	60.069	59.555	58.550
71.333 (76.483)	70.756 (76.889)	67.994 (74.675)	67.944 (74.280)	65.250 (69.973)	62.219 (65.927)	62.449 (65.621)	61.665 (61.821)	60.695 (60.114)
0.000	13.636	52.159	65.795	69.359	125.239	195.614	277.405	295.905

1/570	5/546
IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1800mm DIA



375	2
1.40%	71.4
0.22	1.26
0.025	0.208
44.0	

60.765	60.738	60.625	60.339	59.480
61.782 (61.374)	60.625	60.339	60.426	59.983
1.157	1.326	1.185	2.185	2.145
60.625	60.339	59.480	58.550	58.550
61.782 (61.374)	61.665 (61.821)	61.665 (61.821)	60.695 (60.114)	60.695 (60.114)
0.000	20.460	20.460	20.460	20.460

LINE 566A

569

570

FOR CONSTRUCTION

05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	A	ORIGINAL ISSUE	KK	PB
DATE	REV	DESCRIPTION	REC	APP

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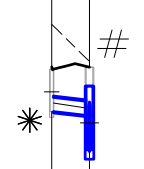
SCALE  
 HORIZONTAL 1:1000 (A1)  
 VERTICAL 1:100 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
MIRVAC QLD PTY LTD  
 PROJECT  
EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT  
 LOCATION  
TEVIOT ROAD, GREENBANK  
 SHEET TITLE  
STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 3

JOB CODE  
MIR009-02  
 SHEET NUMBER  
C411  
 REV  
B



STRUCTURE NAME	1/571
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	5/546
	IPWEA MANHOLE 1800mm DIA



# TERMINATE MANHOLE 500mm BELOW FSL WITH STEEL PLATE TO COVER

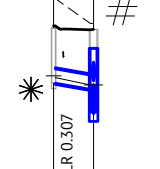
\* SANDBAG AND SEAL PIPE END FOR FUTURE CONNECTION.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.01%
PIPE SLOPE (1 in X)	99.0
FULL PIPE VELOCITY (m/s)	0.85
PART FULL VELOCITY (m/s)	1.62
PIPE FLOW (cumecs)	0.094
PIPE CAPACITY AT GRADE (cumecs)	0.176
DATUM RL	45.0

WSE IN STRUCTURE	61.014	60.194
HGL IN PIPE	60.717	60.586
DEPTH OF INVERT BELOW FSL	1.123	1.274
INVERT LEVEL	60.492	60.391
FINISHED (& EXISTING) SURFACE LEVEL	61.615 (62.798)	61.665 (61.821)
CHAINAGE	0.000	9.988

LINE 571

1/572	IPWEA KERB INLET L.L.I.; 2.4m Lintel
5/546	IPWEA MANHOLE 1800mm DIA

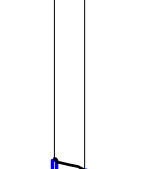


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.7
FULL PIPE VELOCITY (m/s)	0.38
PART FULL VELOCITY (m/s)	1.50
PIPE FLOW (cumecs)	0.041
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	44.0

WSE IN STRUCTURE	60.439	60.194
HGL IN PIPE	60.389	60.195
DEPTH OF INVERT BELOW FSL	1.462	1.581
INVERT LEVEL	60.242	60.084
FINISHED (& EXISTING) SURFACE LEVEL	61.705 (62.522)	61.665 (61.821)
CHAINAGE	0.000	10.572

LINE 572

1/586	IPWEA KERB INLET L.L.I.; 2.4m Lintel
4/569	IPWEA MANHOLE 1050mm DIA

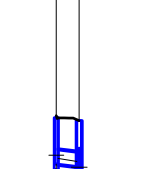


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.28
PART FULL VELOCITY (m/s)	1.20
PIPE FLOW (cumecs)	0.031
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	54.0

WSE IN STRUCTURE	67.108	66.869
HGL IN PIPE	67.068	66.969
DEPTH OF INVERT BELOW FSL	1.258	1.082
INVERT LEVEL	66.942	66.862
FINISHED (& EXISTING) SURFACE LEVEL	68.200 (74.138)	67.944 (74.280)
CHAINAGE	0.000	7.992

LINE 586

1/587	IPWEA KERB INLET L.L.I.; 2.4m Lintel
5/569	IPWEA MANHOLE 1200mm DIA

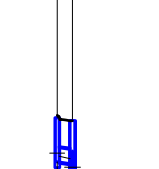


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.41
PART FULL VELOCITY (m/s)	1.35
PIPE FLOW (cumecs)	0.046
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	50.0

WSE IN STRUCTURE	64.339	64.019
HGL IN PIPE	64.255	64.171
DEPTH OF INVERT BELOW FSL	1.226	1.210
INVERT LEVEL	64.100	64.040
FINISHED (& EXISTING) SURFACE LEVEL	65.326 (70.140)	65.250 (69.973)
CHAINAGE	0.000	6.045

LINE 587

1/588	IPWEA KERB INLET L.L.I.; 2.4m Lintel
5/569	IPWEA MANHOLE 1200mm DIA

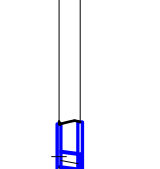


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.03%
PIPE SLOPE (1 in X)	96.9
FULL PIPE VELOCITY (m/s)	0.40
PART FULL VELOCITY (m/s)	1.34
PIPE FLOW (cumecs)	0.045
PIPE CAPACITY AT GRADE (cumecs)	0.178
DATUM RL	50.0

WSE IN STRUCTURE	64.391	64.019
HGL IN PIPE	64.310	64.244
DEPTH OF INVERT BELOW FSL	1.172	1.134
INVERT LEVEL	64.138	64.116
FINISHED (& EXISTING) SURFACE LEVEL	65.330 (70.192)	65.250 (69.973)
CHAINAGE	0.000	4.048

LINE 588

1/589	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
6/569	IPWEA MANHOLE 1050mm DIA

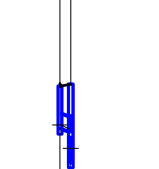


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.04%
PIPE SLOPE (1 in X)	96.4
FULL PIPE VELOCITY (m/s)	0.45
PART FULL VELOCITY (m/s)	1.38
PIPE FLOW (cumecs)	0.050
PIPE CAPACITY AT GRADE (cumecs)	0.179
DATUM RL	47.0

WSE IN STRUCTURE	61.298	60.520
HGL IN PIPE	61.199	61.115
DEPTH OF INVERT BELOW FSL	1.130	1.240
INVERT LEVEL	61.038	60.980
FINISHED (& EXISTING) SURFACE LEVEL	62.167 (66.341)	62.219 (65.977)
CHAINAGE	0.000	5.582

LINE 589

1/590	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
6/569	IPWEA MANHOLE 1050mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.33%
PIPE SLOPE (1 in X)	42.9
FULL PIPE VELOCITY (m/s)	0.13
PART FULL VELOCITY (m/s)	1.29
PIPE FLOW (cumecs)	0.015
PIPE CAPACITY AT GRADE (cumecs)	0.268
DATUM RL	46.0

WSE IN STRUCTURE	61.137	60.520
HGL IN PIPE	61.128	61.035
DEPTH OF INVERT BELOW FSL	1.127	1.244
INVERT LEVEL	61.043	60.976
FINISHED (& EXISTING) SURFACE LEVEL	62.170 (65.800)	62.219 (65.977)
CHAINAGE	0.000	2.871

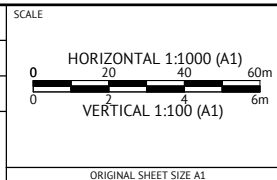
LINE 590

**FOR CONSTRUCTION**



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DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 3**

JOB CODE  
**MIR009-02**

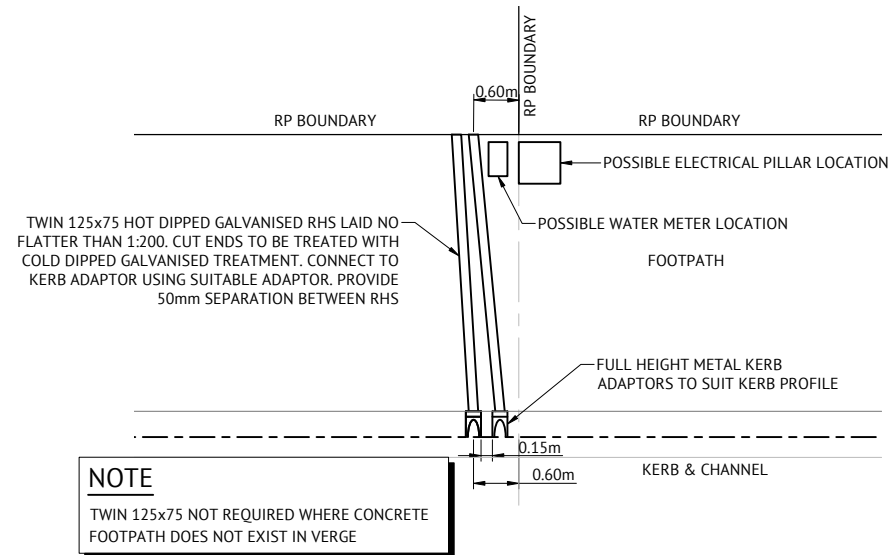
SHEET NUMBER  
**C412**

REV  
**B**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
05/09/2021	A	ORIGINAL ISSUE		

**STORMWATER DRAINAGE NOTES**

- ALL STORMWATER DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, STORMWATER LAYOUT PLANS, NOTES AND DETAILS.
- STORMWATER PITS ARE TO BE CONSTRUCTED INSITU IN ACCORDANCE WITH DRAWINGS OR AS VARIED AS NOTED ON THE DRAWING. PREFABRICATED STORMWATER PITS CAN BE USED SUBJECT TO WRITTEN APPROVAL FROM THE SUPERINTENDENT. CLASS D HEAVY DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN TRAFFIC AREAS, CLASS B LIGHT DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
- ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
- ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
- ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR DN150 & DN225, AND CLASS 'SN6' FOR DN100 UNLESS NOTED OTHERWISE.
- PIPES SHALL BE LAID AT MIN. 1% GRADE UNLESS NOTED OTHERWISE.
- CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAIN LINES. ANY CONFLICT SHALL BE REPORTED TO THE SUPERINTENDENT FOR ANY NECESSARY ALTERATIONS PRIOR TO ANY CONSTRUCTION OF CONNECTING PIPEWORK.
- WHERE PIPES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL LOADINGS (e.g. BUILDING FOOTINGS, RETAINING WALLS...etc). THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE.
- BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
- WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
- ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE WORK HEALTH AND SAFETY ACT 2011 AND SUBSEQUENT AMENDMENTS.
- ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
- ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
- ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
- INSTALL 150mm DIAMETER PVC ROOFWATER HOUSE CONNECTION STUB INTO ROOFWATER PITS. INSTALL AT 750mm DEPTH TYPICAL OR 50mm FROM THE BASE OF PIT (WHICHEVER IS SHALLOWER).



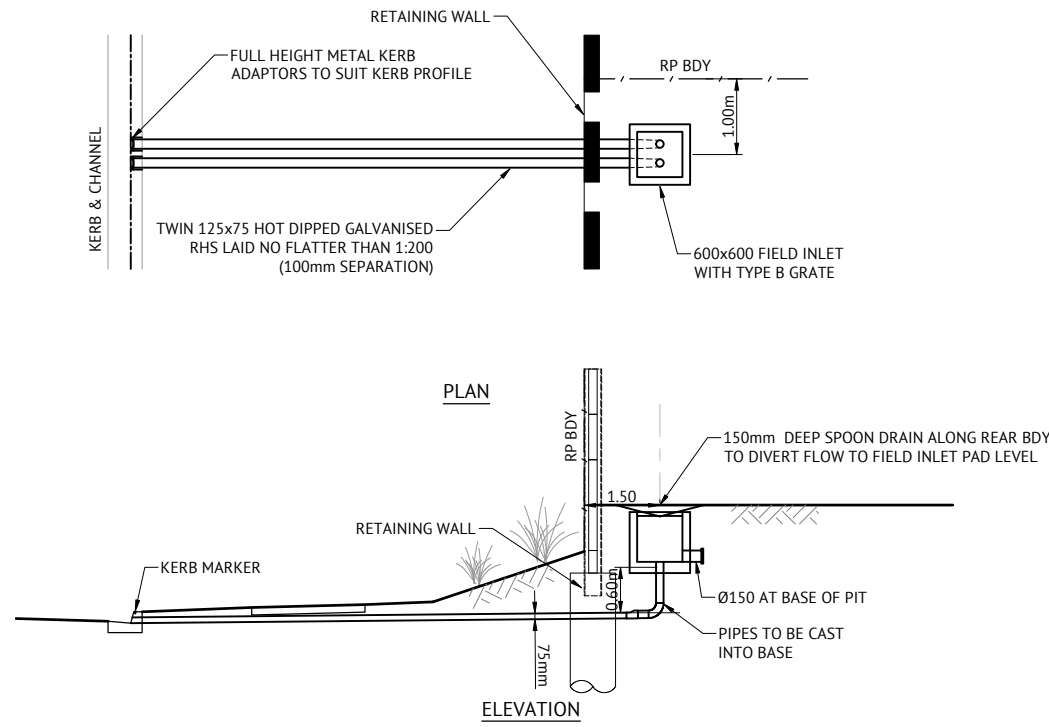
**TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL**  
N.T.S.

**REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES**

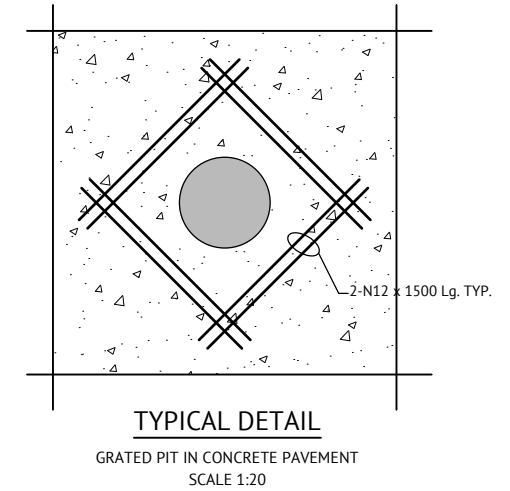
STRUCTURE TYPE	HORIZONTAL CONTROL POINT (REFERENCE POINT LOCATION)	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION OF HEADWALL FACE AND PIPE CENTRE LINE	INVERT LEVEL
FIELD INLET	CENTRE OF PIT	TOP OF CONCRETE PIT
ROOFWATER PIT	CENTRE OF PIT	TOP OF GRATE

**EXCAVATION IN ROCK NOTE:**  
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

**TRENCH SPOIL NOTE:**  
SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.



**TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL**  
N.T.S.



**TYPICAL DETAIL**  
GRADED PIT IN CONCRETE PAVEMENT  
SCALE 1:20

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
05/09/2021	A	ORIGINAL ISSUE	KK	PB

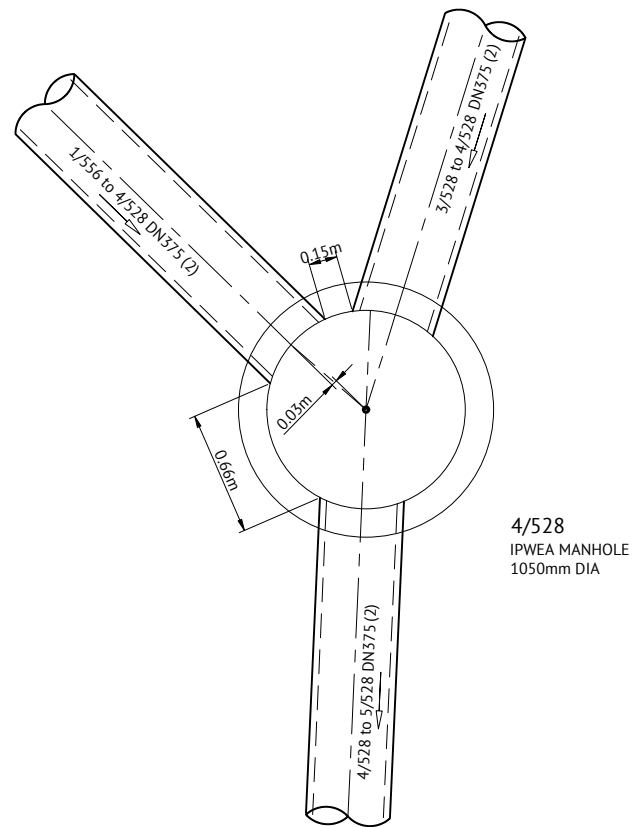
**Premise**  
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PROJECT DIRECTOR  
**PBR**  
PATRICK BRADY RPEQ 7112

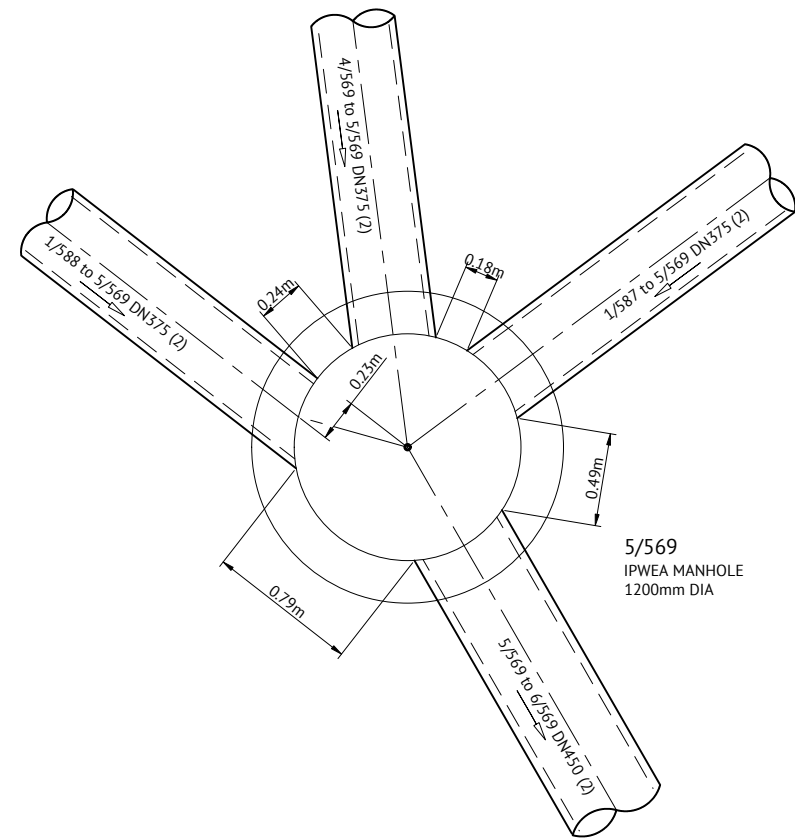
SCALE  
NTS  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**STORMWATER DRAINAGE NOTES AND DETAILS**

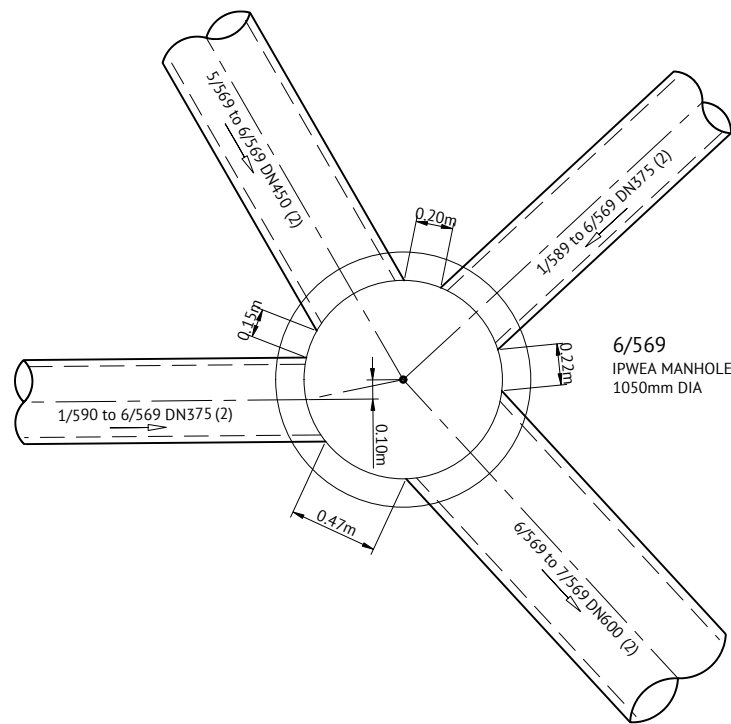
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**MIR009-02**  
SHEET NUMBER  
**C420**  
REV  
**B**



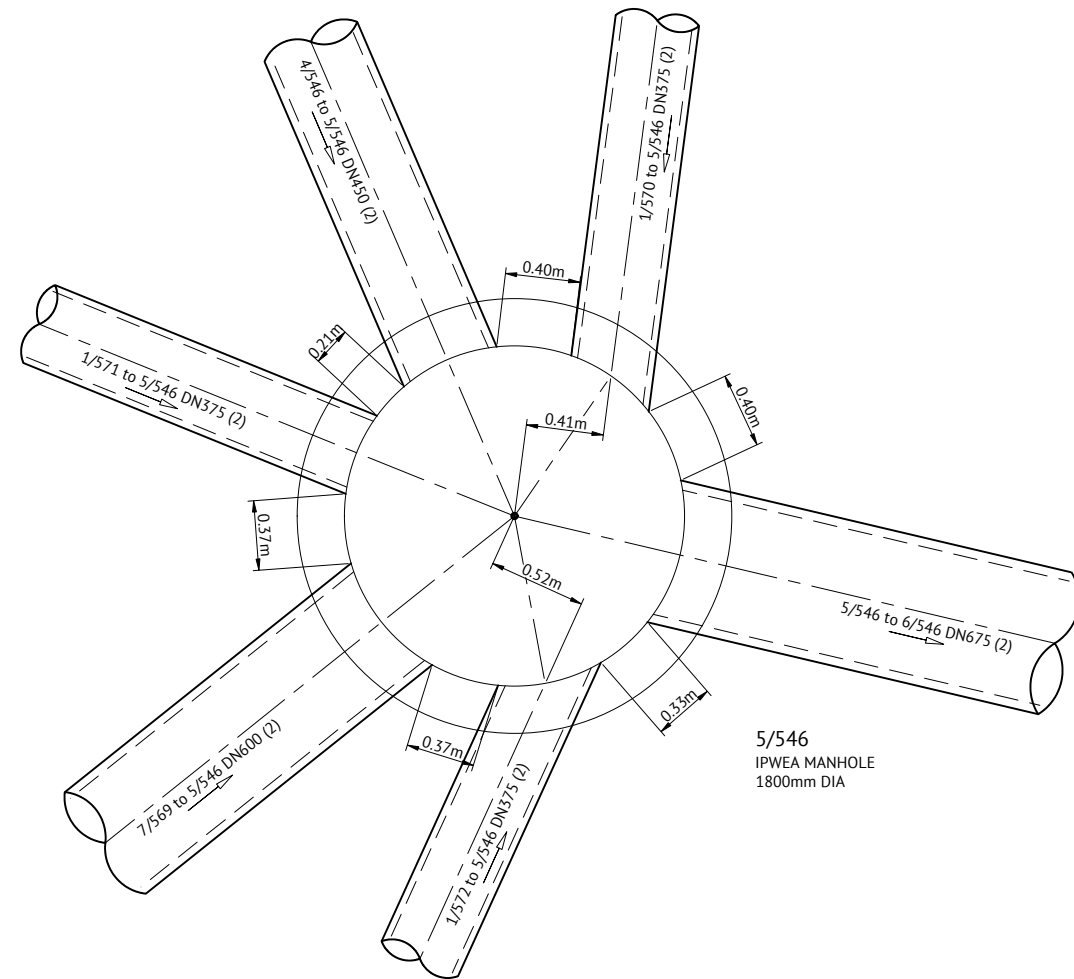
4/528  
IPWEA MANHOLE  
1050mm DIA



5/569  
IPWEA MANHOLE  
1200mm DIA



6/569  
IPWEA MANHOLE  
1050mm DIA



5/546  
IPWEA MANHOLE  
1800mm DIA

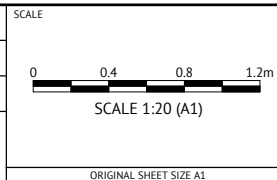
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
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05/09/2021	A	ORIGINAL ISSUE	KK	PB



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*Patrick Brady*  
**PATRICK BRADY** RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**STORMWATER DRAINAGE STRUCTURE DETAILS**

JOB CODE  
**MIR009-02**

SHEET NUMBER	REV
<b>C430</b>	<b>B</b>





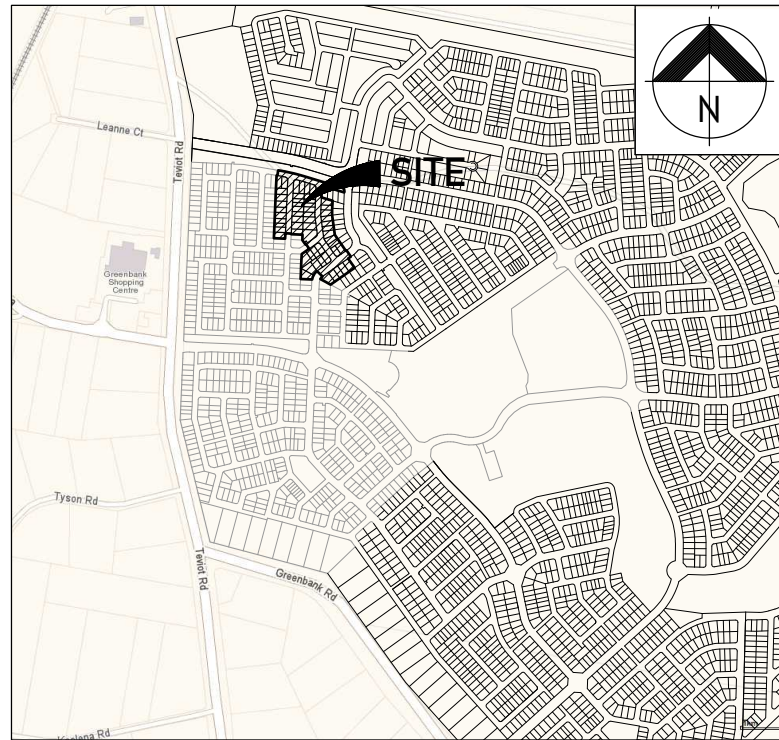


# EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT

## TEVIOT ROAD, GREENBANK

### FOR MIRVAC QLD PTY LTD

#### SEWERAGE



### LOCALITY PLAN

#### REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844  
 LOT 9 on S312355

NAME OF ESTATE	EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT	
SUBDIVIDER	Mirvac QLD Pty Ltd	
APPLICATION No.	-	
SP DELEGATE APPROVAL DATE	-	
COUNCIL DA APPROVAL No.	-	
DRAWING/PLAN No.	C510-C511	
No. OF ALLOTMENTS	56	
AREA ha	3.35	
LENGTH OF SEWERS	DN150 uPVC SN8	736m
	DN225 uPVC SN8	-m

#### GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER LOGAN WATER SUPERVISION AT THE DEVELOPER'S COST.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN100 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
- WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- REFER TO BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS.
- ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT. FOR INFORMATION PHONE: 1300 369 915.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SAFE SHORING TO ALLOW SEWER MAINTENANCE SECTION TO CARRY OUT LIVE SEWER WORK.
- CONSTRUCT TRENCHES TO SEQ-SEW-1200-2, WITH EMBEDMENT TYPE 3 SUPPORT MINIMUM TO SEQ-SEW-1201-1, AND ROAD CROSSINGS TO SEQ-SEW-1205-1 AND LCC STANDARDS.
- CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1100 SERIES.
- CONSTRUCT MAINTENANCE STRUCTURES TO SEQ-SEW-1300 SERIES.
- CONSTRUCT BULKHEADS TO SEQ-SEW-1206-1.
- INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS.
- CALCAREOUS CONCRETE IN MAINTENANCE HOLES REQUIRED IN ACCORDANCE WITH SEQ WS&S D&C CODE REQUIREMENTS.
- CCTV OF SEWER TO BE UNDERTAKEN AND SUPPLIED TO SUPERINTENDENT PRIOR TO, BUT NO GREATER THAN 2 WEEKS BEFORE, THE ON-SITE INSPECTION FOR OFF MAINTENANCE.

#### VEGETATION PROTECTION

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

#### SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA, ACID SULPHATE SOILS ARE TO MANAGED IN ACCORDANCE WITH AN APPROVED ACID SULPHATE SOIL MANAGEMENT PLAN.

#### CREEK CROSSINGS

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

#### REHABILITATION

- PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

#### SAFETY

- THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

#### INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

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

ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORKPLACE HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 369 915

CONTACT "DIAL BEFORE YOU DIG" ON 1100 FOR LOCATION OF EXISTING PUBLIC SERVICES PRIOR TO EXCAVATION.

#### TRENCH SPOIL NOTE:

SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

#### EXCAVATION IN ROCK NOTE:

CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

#### SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1 OF 3
C511	SEWERAGE LAYOUT PLAN - SHEET 2 OF 3
C512	SEWERAGE LAYOUT PLAN - SHEET 3 OF 3
C520	SEWERAGE LONG SECTIONS - SHEET 1 OF 3
C521	SEWERAGE LONG SECTIONS - SHEET 2 OF 3
C522	SEWERAGE LONG SECTIONS - SHEET 3 OF 3
C530	SEWERAGE NOTES AND DETAILS

#### FOR CONSTRUCTION

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05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
07/05/2020	A	ORIGINAL ISSUE	KK	PB



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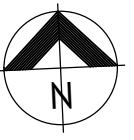
DESIGNED  
K KIWANG  
 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
  
 PATRICK BRADY RPEQ 7112

SCALE  
  
 SCALE 1:10000 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LOCALITY PLAN & NOTES**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C500**  
 REV  
**B**





**LEGEND - PROPOSED**

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION, 7.5m OFFSET FROM SIDE BDY WITH DWAY, 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY, TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER, REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- 38** LOT NUMBER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY

**LEGEND - EXISTING**

- Ø100mm EXISTING PROPERTY CONNECTION
- STORMWATER DRAINAGE
- GRAVITY SEWER
- SEWER RISING MAIN
- SEWER TRUNK MAIN
- DRINKING WATER MAIN
- EXISTING CONTOURS (0.50m)

**EXISTING HOUSE CONNECTION DETAILS**

LOT #	INVERT LEVEL	DEPTH
3056	71.974	1.418
3057	72.137	1.401
3067	63.471	1.499
3068	64.728	1.500
3087	64.441	1.500
3119	63.155	1.250
3120	62.713	1.250
3121	62.332	1.250
3122	62.025	1.250
3123	58.6110	1.4000
3124	59.292	1.4000
3125	60.149	1.2500
3126	60.937	1.2500
3127	61.369	1.2500
3128	59.565	1.2500

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.



JOINS DRAWING C511

CONTRACTOR TO CONSTRUCT PROPOSED SEWER MANHOLES WITH SUFFICIENT NECK HEIGHT SHOULD FUTURE LAND OWNER REQUIRE ADJUSTMENT TO LID LEVEL TO SUIT POTENTIAL DRIVEWAY.

CONTRACTOR TO ENSURE THAT ALL SLOPED PROPERTY CONNECTIONS LOCATED AT REAR OF LOTS SHALL TERMINATE AT SHORTEST LENGTH POSSIBLE FROM THE JUNCTION WITH THE SEWER MAIN.

PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH TO INVERT OF PROPERTY CONNECTION AT 1.5m, UNLESS OTHERWISE STATED.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	D	ISSUED FOR CONSTRUCTION	MD	PB
03/09/2021	C	AMENDED SEWER ALIGNMENT AND HOUSE CONNECTION LOCATIONS	KK	PB
20/08/2021	B	AMENDED STAGE BOUNDARY AND REMOVED SEWER	KK	KK
07/05/2020	A	ORIGINAL ISSUE	KK	APP



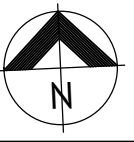
**BRISBANE OFFICE**  
 LEVEL 11, 300 ADELAIDE STREET  
 BRISBANE, QLD 4000  
 PH: (07) 3253 2222  
 WEB: www.premise.com.au

DESIGNED  
**K KIWANG**  
 CHECKED  
**A LANGDON**  
 PROJECT MANAGER  
**S STEINHOFER**  
 PROJECT DIRECTOR  
**PATRICK BRADY** RPEQ 7112






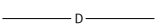
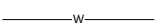

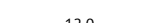





SCALE  
  
 SCALE 1:500 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 1 OF 2**


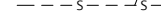

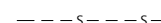



JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C510**  
 REV  
**D**



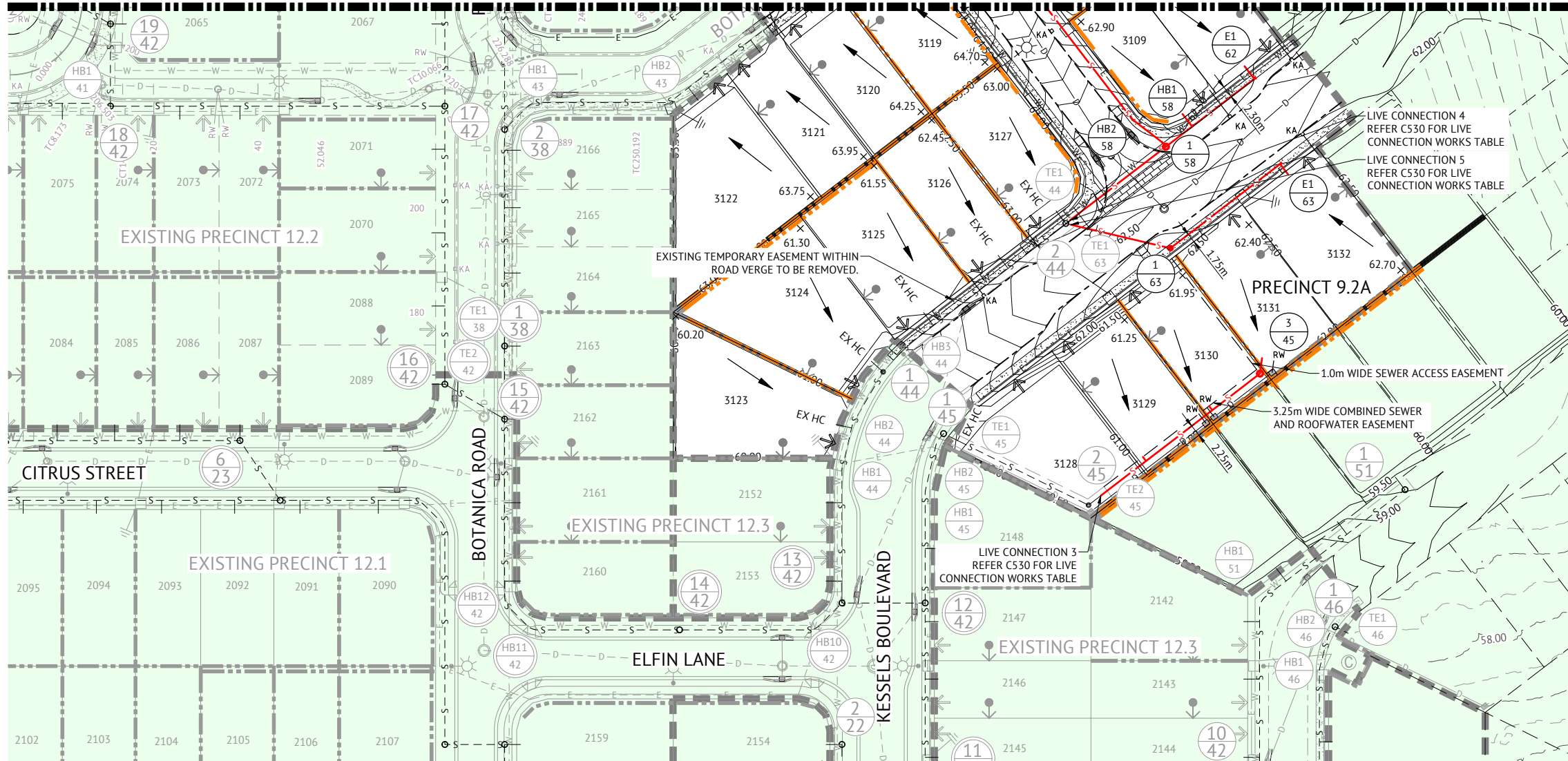
**LEGEND - PROPOSED**

-  GRAVITY SEWER
-  Ø100mm PROPERTY CONNECTION.  
7.5m OFFSET FROM SIDE BODY WITH DWAY.  
1.2m OFFSET FROM SIDE BODY WITHOUT DWAY.  
TYPICAL U.N.O.
-  MAINTENANCE STRUCTURE
-  PROPOSED MAINTENANCE HOLE OR  
MAINTENANCE SHAFT NUMBER.  
REFER LONG SECTION DRAWINGS FOR  
STRUCTURE DETAILS.
-  HORIZONTAL BEND (3m RADIUS).
- 38** LOT NUMBER
-  STORMWATER DRAINAGE
-  DRINKING WATER MAIN
-  ELECTRICAL (PROPOSED)
-  FINISHED CONTOURS (0.50m)
-  ZERO LOT LINE
-  FUTURE DRIVEWAY LOCATION
-  PROPOSED RETAINING WALL
-  PROPOSED CONCRETE FOOTPATH  
& KERB RAMP
-  STAGE BOUNDARY

**LEGEND - EXISTING**

-  EX HC Ø100mm EXISTING  
PROPERTY CONNECTION
-  STORMWATER DRAINAGE
-  GRAVITY SEWER
-  SEWER RISING MAIN
-  SEWER TRUNK MAIN
-  DRINKING WATER MAIN
-  EXISTING CONTOURS (0.50m)

**JOINS DRAWING C510**



PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH TO INVERT OF PROPERTY CONNECTION AT 1.5m, UNLESS OTHERWISE STATED.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

CONTRACTOR TO ENSURE THAT ALL SLOPED PROPERTY CONNECTIONS LOCATED AT REAR OF LOTS SHALL TERMINATE AT SHORTEST LENGTH POSSIBLE FROM THE JUNCTION WITH THE SEWER MAIN.

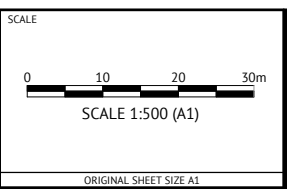
CONTRACTOR TO CONSTRUCT PROPOSED SEWER MANHOLES WITH SUFFICIENT NECK HEIGHT SHOULD FUTURE LAND OWNER REQUIRE ADJUSTMENT TO LID LEVEL TO SUIT POTENTIAL DRIVEWAY.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
07/05/2020	A	ORIGINAL ISSUE		

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 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFER  
 PROJECT DIRECTOR  
PATRICK BRADY RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SEWERAGE LAYOUT PLAN - SHEET 2 OF 2**

JOB CODE  
**MIR009-02**

SHEET NUMBER  
**C511**

REV  
**B**









MAINTENANCE HOLE / SHAFT NO. 1/63 E1/63

MH / MS COVER TYPE	B	
MH / MS TYPE	J	END
MH DROP TYPE	V	
LINE NO.	63	
PROPERTY CONNECTION DEPTH		1.250
PROPERTY CONNECTION INVERT LEVEL		61.001
PROPERTY CONNECTION TYPE	B	
LOT NO.		3132

**LEGEND**

RR DENOTES ROAD RESERVE  
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL BEND TANGENT POINT

LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL
D(E)	TYPE D - EXTENDED VERTICAL REFER DWG C530

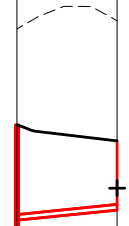
**NOTES:**

- EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
- DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

**HORIZONTAL BEND NOTE:**  
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.I. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).  
**PROPERTY CONNECTION NOTE:**  
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.  
**MANHOLE COVER NOTE:**  
ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

DATUM RL	50.000	
PROPERTY DESCRIPTION		
PIPE SIZE (mm), CLASS		
GRADE (1 IN X)	100	
LENGTH	26.500	
EMBEDMENT TYPE		
DEPTH OF INVERT BELOW FSL	2.545	2.515
INVERT LEVEL (IL)	60.125	60.420
FINISHED SURFACE LEVEL (FSL)	62.671	62.251
EXISTING SURFACE LEVEL (ESL)	65.214	65.429
CHAINAGE (CH)	19.583	46.083

LINE 63



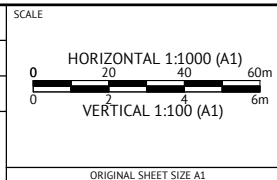
**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	C	ISSUED FOR CONSTRUCTION	MD	PB
20/08/2021	B	AMENDED LONG SECTIONS TO MATCH CURRENT SEWER ALIGNMENT	KK	PB
07/05/2020	A	ORIGINAL ISSUE	KK	



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DESIGNED  
K KIWANG  
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A LANGDON  
PROJECT MANAGER  
S STEINHOFER  
PROJECT DIRECTOR  
PATRICK BRADY  
RPEQ 7112



CLIENT  
**MIRVAC QLD PTY LTD**

PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**

LOCATION  
**TEVIOT ROAD, GREENBANK**

SHEET TITLE  
**SEWERAGE LONG SECTIONS - SHEET 3 OF 3**

JOB CODE  
**MIR009-02**

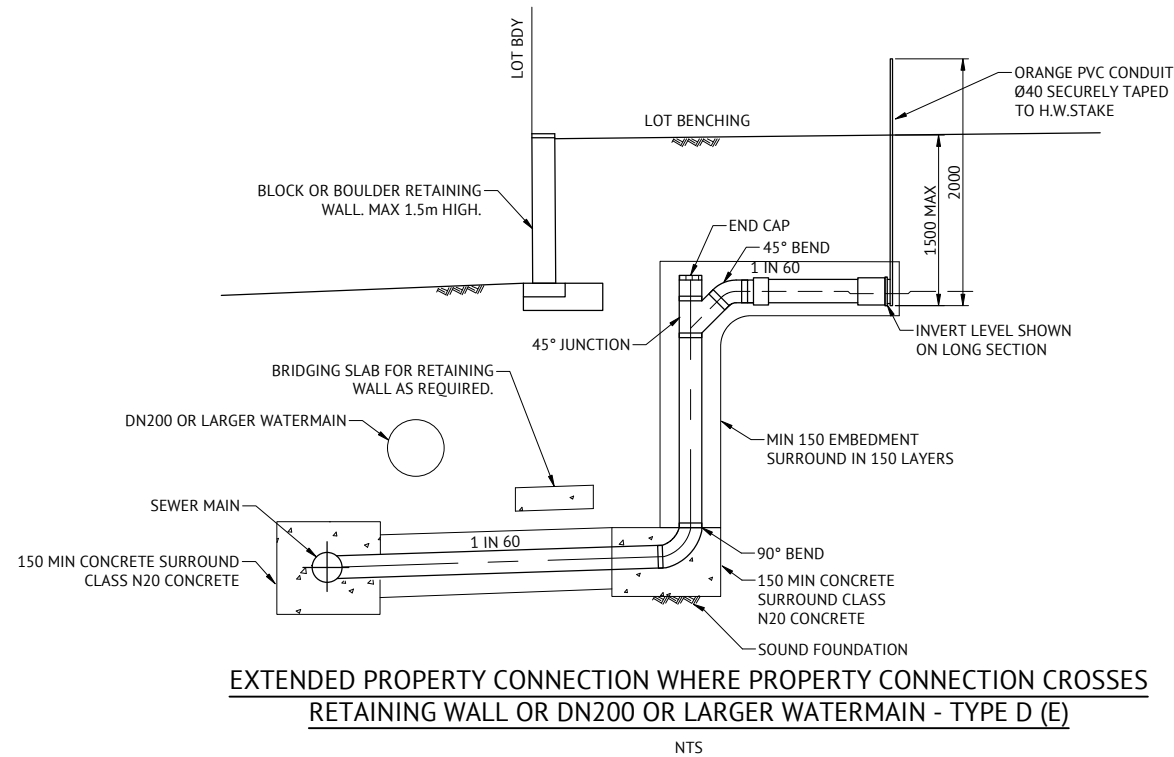
SHEET NUMBER	REV
<b>C522</b>	<b>C</b>

**LIVE SEWER WORKS**

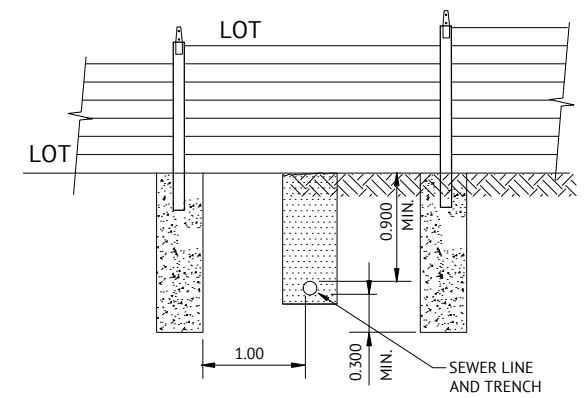
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/39, CONSTRUCTOR TO LAY NEW LINE 39. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/39	END	-	3068	66.306	71.137	64.326	1.980
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 39 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP E/38, CONSTRUCTOR TO LAY NEW LINE 38. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	225	TE1/38	END	-	3087	66.019	70.708	64.056	1.963
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 38 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP TE2/45, CONSTRUCTOR TO LAY NEW LINE 45. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE2/45	END	-	3128	61.000	60.964	59.464	1.536
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 45 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
4(A)	0.5m FROM STUB END CAP TE1/44, CONSTRUCTOR TO LAY NEW LINE 58. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/44	END	-	3127	62.631	64.648	59.549	3.082
4(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 58 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
5(A)	0.5m FROM STUB END CAP TE1/63, CONSTRUCTOR TO LAY NEW LINE 63. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/63	END	-	3127	62.584	64.593	59.616	2.967
5(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 63 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS. AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

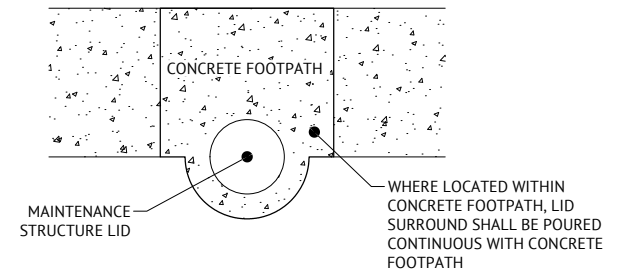
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE HEALTH AND SAFETY LEGISLATION TO SEQ-SPS PRIOR TO SEQ-SPS COMMENCING ANY WORK. IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.



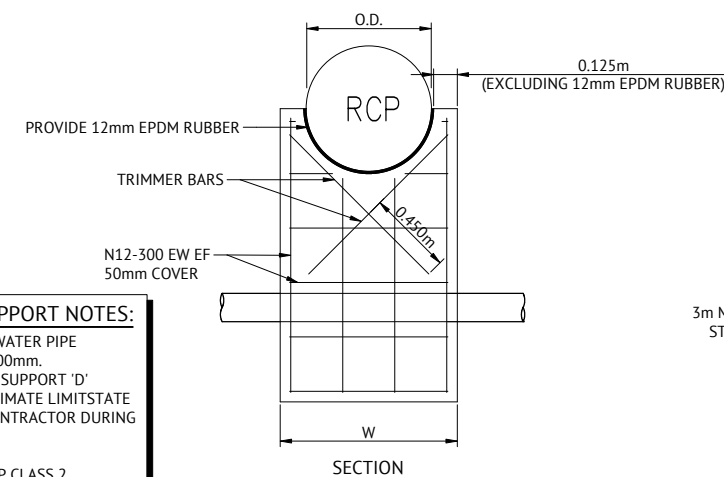
**EXTENDED PROPERTY CONNECTION WHERE PROPERTY CONNECTION CROSSES RETAINING WALL OR DN200 OR LARGER WATERMAIN - TYPE D (E)**



**SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL**



**TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL**

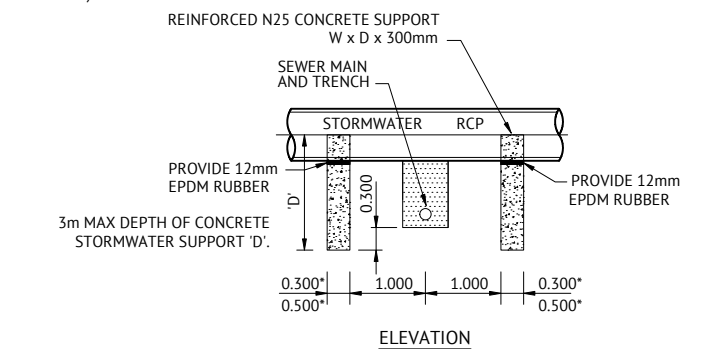


**CONCRETE STORMWATER SUPPORT TYPICAL DETAIL**

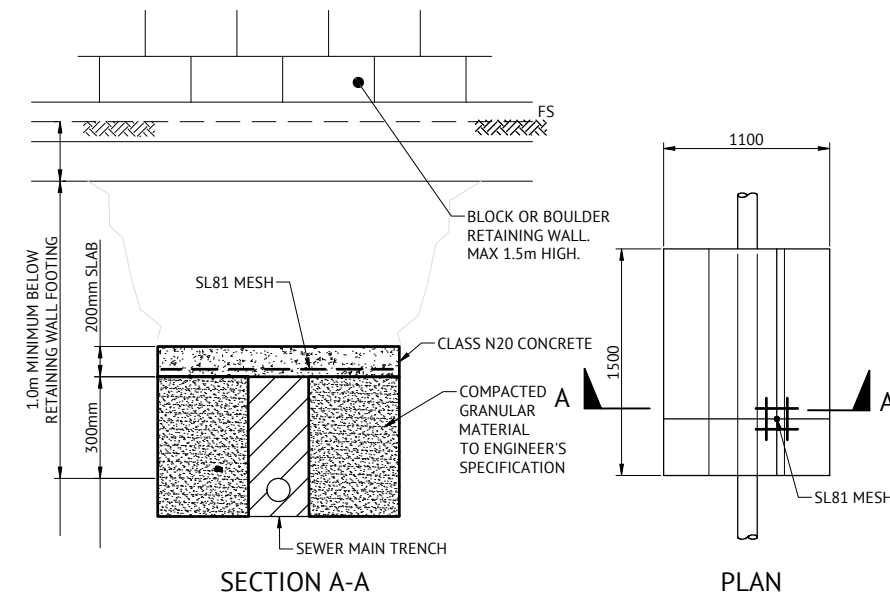
SCALE 1:20

- GENERAL CONCRETE STORMWATER SUPPORT NOTES:**
- SUPPORTS TO BE INSTALLED WHERE STORMWATER PIPE DIAMETER IS EQUAL TO OR GREATER THAN 600mm.
  - 3m MAX DEPTH OF CONCRETE STORMWATER SUPPORT 'D'
  - DESIGN BASED ON ACHIEVING 100kPa OF ULTIMATE LIMIT STATE BEARING CAPACITY. TO BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION.
  - 0.300m\* WIDTH UP TO 1050 RCP CLASS 2
  - 0.500m\* WIDTH BETWEEN 1050 AND 1800 RCP CLASS 2

- CONCRETE STORMWATER SUPPORT IN ROCK NOTES**
- WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.

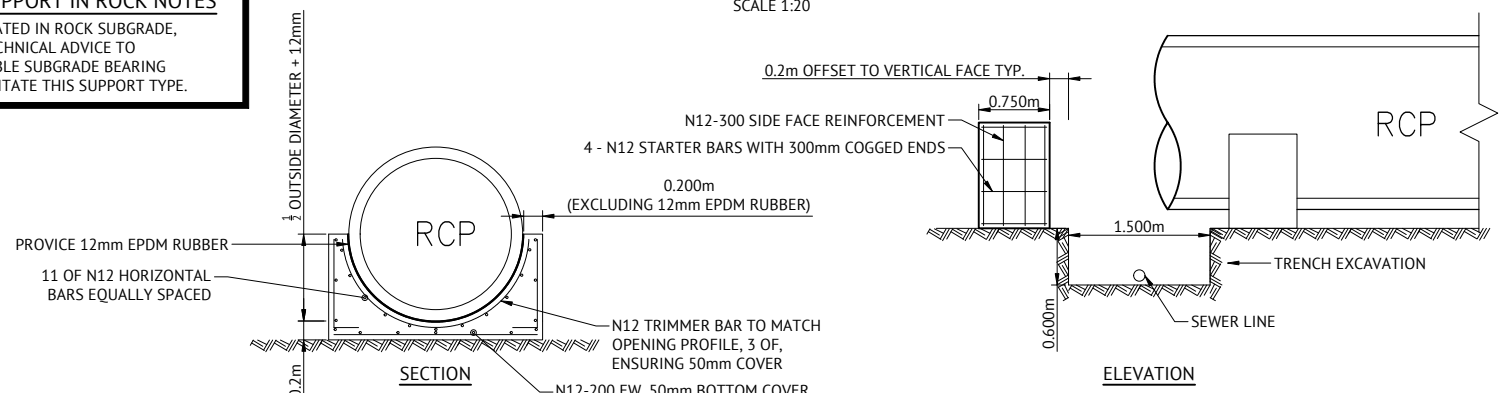


**ELEVATION**



**SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL**

NTS



**CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL**

SCALE 1:40

STRUCTURAL DETAILS APPROVED DATE  
 05/11/2021  
 BRIONY HOOPER RPEQ 10854

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
07/05/2020	A	ORIGINAL ISSUE		

**Premise**  
 BRISBANE OFFICE  
 LEVEL 1, 100 BRUNSWICK STREET  
 PO BOX 361  
 FORTITUDE VALLEY, QLD 4006  
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 PATRICK BRADY RPEQ 7112

SCALE  
 ORIGINAL SHEET SIZE A1

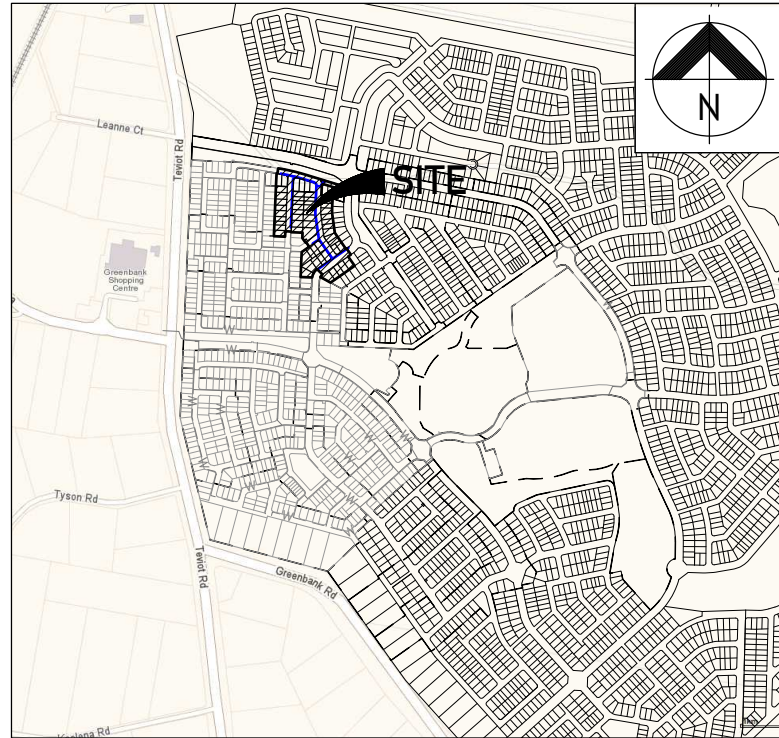
CLIENT  
**MIRVAC GROUP**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**SEWERAGE NOTES AND DETAILS**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C530**  
 REV  
**B**

# EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT

## TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD

### WATER RETICULATION



#### LOCALITY PLAN

#### REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844  
LOT 9 on S312355

#### SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C620	WATER NOTES AND DETAILS

#### GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP'S
- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS, WHERE POSSIBLE
- CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128.
- CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
- CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2. PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND LCC STANDARDS.
- INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
- INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.

#### VEGETATION PROTECTION

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

#### SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

#### CREEK CROSSINGS

- SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

#### REHABILITATION

- PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
- PRE-DISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED, ALL DISTURBED AREAS ASSOCIATED WITH CONSTRUCTION SHALL BE REHABILITATED, HEAVILY COMPACTED AREAS SHOULD BE RIPPED PRIOR TO TREATMENT.
- ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
- ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.

#### CONSTRUCTION REQUIREMENTS

- LIVE WATER CONNECTIONS TO BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT UNDER LOGAN WATER SUPERVISION AT DEVELOPERS EXPENSE AT LOCATION MARKED.
- PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
- UPON COMPLETION OF ALL WORKS, CONTRACTORS SHALL SUPPLY THE SUPERVISING RPEQ DETAILED "AS CONSTRUCTED" INFORMATION OF THE WORK. "AS CONSTRUCTED" INFORMATION SHALL COMPLY WITH CURRENT SEQ CODE OR LOCAL AUTHORITY STANDARDS FOR PLAN AND DIGITAL INFORMATION.
- CONTRACTOR IS TO BE RESPONSIBLE FOR ARRANGING ALL LOGAN WATER CONNECTIONS AND PAYMENTS OF CONNECTION FEES.

#### TRENCH SPOIL NOTE:

SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

#### EXCAVATION IN ROCK NOTE:

CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

#### INDEMNITY - EXISTING SERVICES

NOT WITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS, NO RESPONSIBILITY IS TAKEN BY THE ENGINEER OR THE PRINCIPAL FOR THIS INFORMATION WHICH HAS BEEN SUPPLIED BY OTHERS. THE DETAILS ARE PROVIDED FOR INFORMATION ONLY. THE CONTRACTOR SHALL ASCERTAIN THE POSITION OF ALL UNDERGROUND SERVICES PRIOR TO EXCAVATION AND SHALL BE RESPONSIBLE FOR THE COST OF REPAIRS TO DAMAGES CAUSED AS A RESULT OF THE WORKS.

#### RPEQ CERTIFICATION

THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO LOGAN WATER RETICULATION SYSTEM. ALL RPEQ CERTIFIED DRAWINGS COMPLY WITH SEQ CODE AND LOGAN WATER REQUIREMENTS.

#### INSPECTION REQUIREMENTS

PRIOR TO COMMENCEMENT OF WORKS, CONTACT PREMISE (07) 3253 2222 AND LOGAN WATER TO CONFIRM INSPECTION REQUIREMENTS INCLUDING LIVE CONNECTIONS.

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

INSPECTIONS ARE REQUIRED TO BE ORGANIZED WITH PREMISE AND LOGAN WATER. ANY COSTS ASSOCIATED WITH ENGAGING LOGAN WATER TO UNDERTAKE INSPECTIONS OUTSIDE OF THE FEE PAID SHALL BE BORNE BY THE CONTRACTOR.

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

ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128

#### SEQ CODE STD DRAWING SCHEDULE

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



#### FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD	PB
07/05/2020	A	ORIGINAL ISSUE	KK	PB



**BRISBANE OFFICE**  
LEVEL 11, 300 ADELAIDE STREET  
BRISBANE, QLD 4000  
PH: (07) 3253 2222  
WEB: www.premise.com.au

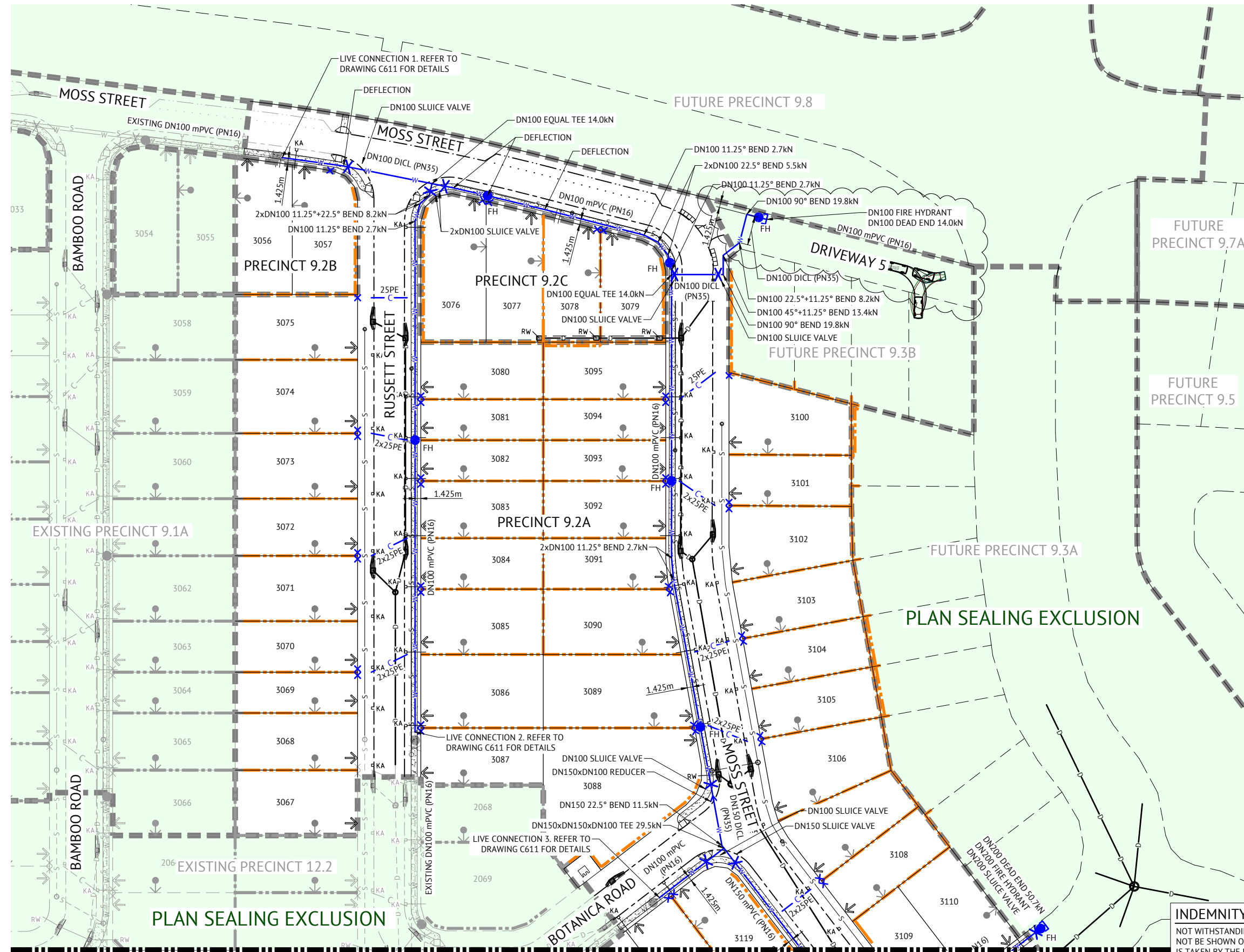
DESIGNED  
**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
*[Signature]*  
**PATRICK BRADY** RPEQ 7112

SCALE  
0 200 400 600m  
SCALE 1:10000 (A1)  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**WATER RETICULATION LOCALITY PLAN & NOTES**

JOB CODE  
**MIR009-02**  
SHEET NUMBER  
**C600**  
REV  
**B**





**LEGEND - PROPOSED**

- POTABLE WATERMAIN
- POTABLE WATER RETICULATION CONDUIT
- WATER SERVICES & WATER METER BOX POINT, METER BY OTHERS
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION
- TRUNCATIONS 5 DEGREES OR LESS
- LOT NUMBER
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICITY
- ZERO LOT BOUNDARY
- PREFERRED DRIVEWAY LOCATION (BY OTHERS)
- SITE BOUNDARY
- PROPOSED RETAINING WALL
- PAD MOUNTED TRANSFORMER

**LEGEND - EXISTING**

- WATER
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- SCOUR BRANCH
- DEAD END
- WATER METER
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICAL
- TELSTRA
- GAS

**INDEMNITY - EXISTING SERVICES**

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**AS CONSTRUCTED DETAILS FOR AMEND.**

I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS

SIGNED	DATE:
NAME OF SIGNATORY	
RPEQ No. or LICENCE	
COMPANY NAME	
START DATE	

JOINS DRAWING C611

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
05/11/2021	C	ISSUED FOR CONSTRUCTION	MD PB
20/08/2021	B	AMENDED STAGE BOUNDARY AND EXTENT OF WATER MAIN	KK PB
07/05/2020	A	ORIGINAL ISSUE	KK

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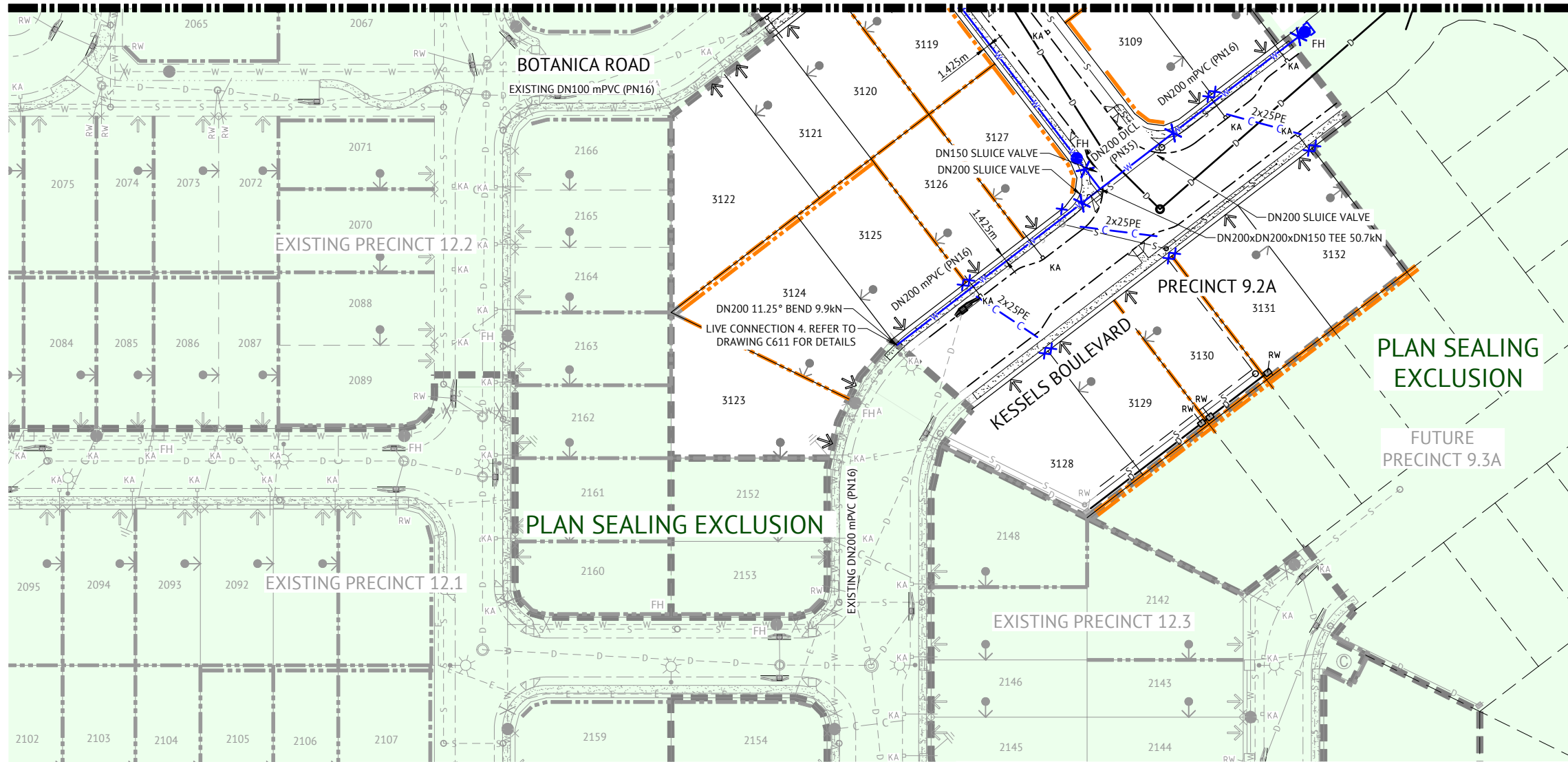
DESIGNED  
K KIWANG  
 CHECKED  
A LANGDON  
 PROJECT MANAGER  
S STEINHOFFER  
 PROJECT DIRECTOR  
PATRICK BRADY  
 RPEQ 7112

SCALE  
  
 SCALE 1:500 (A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**WATER RETICULATION LAYOUT PLAN - SHEET 1 OF 2**

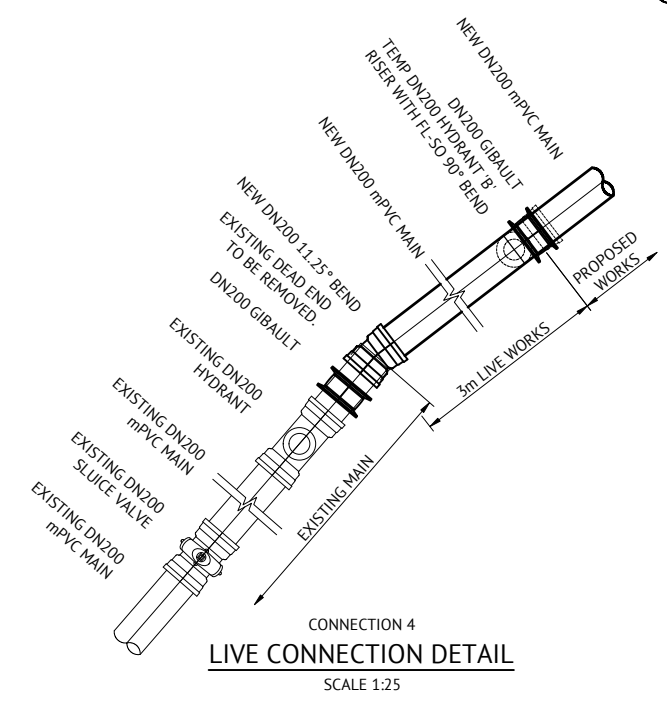
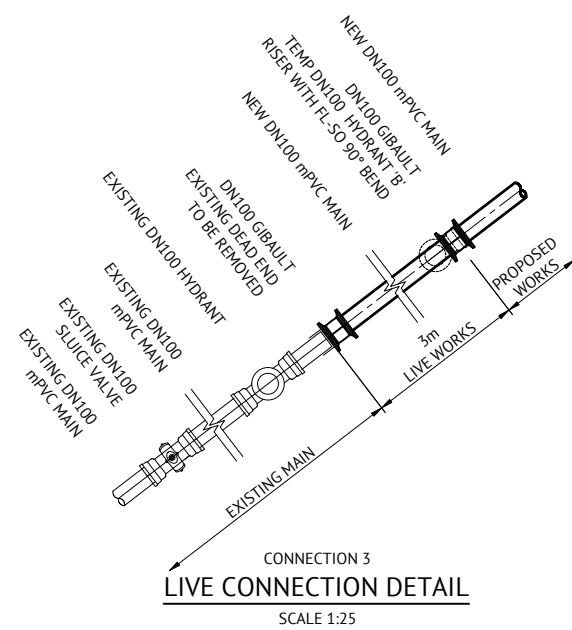
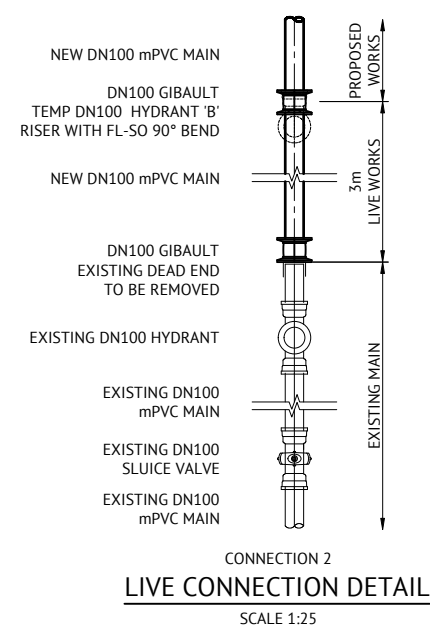
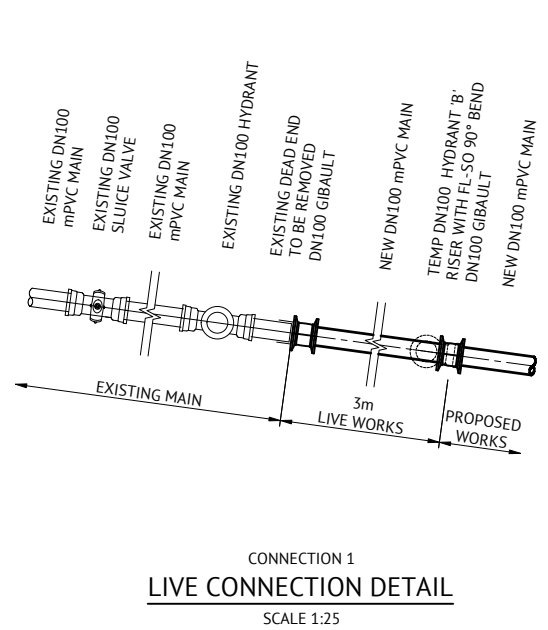
JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C610**  
 REV  
**C**





- LIVE CONNECTION NOTES:**
1. LIVE CONNECTIONS BY LOGAN WATER
  2. LIVE CONNECTION IN ACCORDANCE WITH SEQ-WAT-1303-1
  3. THRUST BLOCKS NOT SHOWN FOR CLARITY.
  4. PRE-CHLORINATION FITTINGS AS REQUIRED.

AS CONSTRUCTED DETAILS FOR AMEND.  
 I CERTIFY THAT THE 'AS CONSTRUCTED' DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS  
 SIGNED: \_\_\_\_\_ DATE: \_\_\_\_\_  
 NAME of SIGNATORY \_\_\_\_\_  
 RPEQ No. or LICENCE \_\_\_\_\_  
 COMPANY NAME \_\_\_\_\_  
 START DATE \_\_\_\_\_

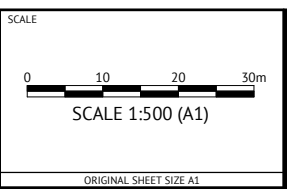


**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	MD	PB
05/11/2021	B	ISSUED FOR CONSTRUCTION		
07/05/2020	A	ORIGINAL ISSUE		

**Premise**  
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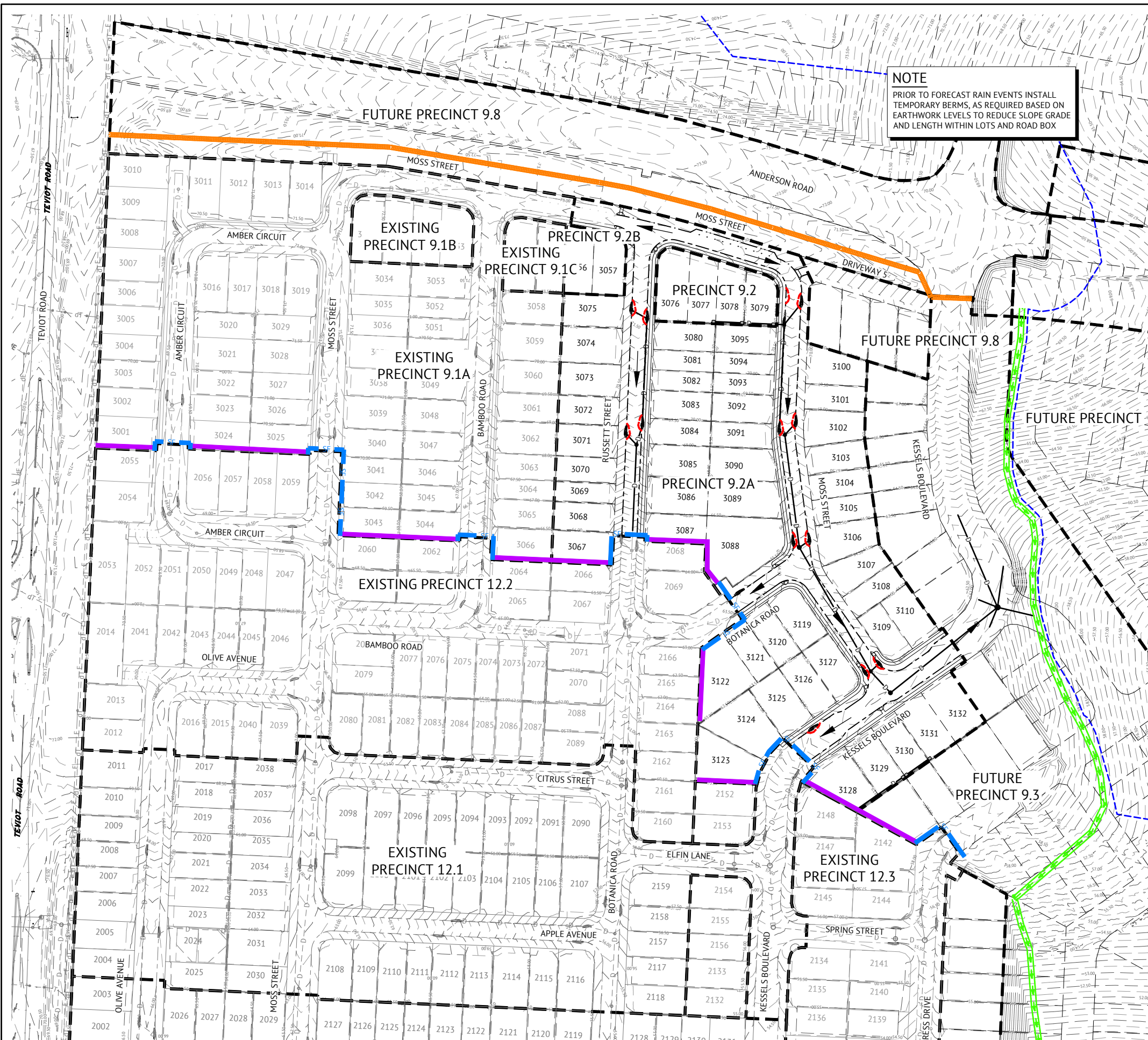
DESIGNED: K KIWANG  
 CHECKED: A LANGDON  
 PROJECT MANAGER: S STEINHOFER  
 PROJECT DIRECTOR: PATRICK BRADY  
 RPEQ 7112



CLIENT: MIRVAC QLD PTY LTD  
 PROJECT: EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT  
 LOCATION: TEVIOT ROAD, GREENBANK  
 SHEET TITLE: WATER RETICULATION LAYOUT PLAN - SHEET 2 OF 2

JOB CODE: MIR009-02  
 SHEET NUMBER: C611  
 REV: B





**NOTE**  
 PRIOR TO FORECAST RAIN EVENTS INSTALL TEMPORARY BERMS, AS REQUIRED BASED ON EARTHWORK LEVELS TO REDUCE SLOPE GRADE AND LENGTH WITHIN LOTS AND ROAD BOX

**LEGEND - PROPOSED**

- EXTENT OF CUT
- EXTENT OF FILL
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- FIELD INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-02 FOR DETAILS.
- FLOW DIRECTION OR RUNOFF
- MULCH BERM
- SEDIMENT FENCE REFER IECA DRAWING SF-01 & SF-02 FOR DETAILS.
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION BUND
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

**LEGEND - EXISTING**

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING MULCH BUND. BUILT DURING CLEARING AND GRUBBING PHASE
- EXISTING DIRTY WATER DIVERSION BUND. BUILT DURING CLEARING AND GRUBBING PHASE
- VEGETATION CLEARING EXTENT
- EXISTING RETAINING WALL TO PREVENT FLOW TO CONSTRUCTED PRECINCT. CONTRACTOR TO MONITOR DURING EARTHWORKS PHASE

**INSTALLATION SEQUENCE EARTHWORKS**

- STEP 1**  
PERFORM EARTHWORKS ON LEADS CUT TO FILL ON SITE IN ACCORDANCE WITH THE CIVIL EARTHWORKS DRAWINGS.
- STEP 2**  
ONCE FINAL CUT AND FILL BATTER LEVELS HAVE BEEN ACHIEVED, REMOVE REQUIRED TOPSOIL FROM STOCKPILED AREAS AND PLACE ON BATTERS AND OTHER DISTURBED AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.
- STEP 3**  
AS SOON AS POSSIBLE AFTER TOPSOIL HAS BEEN PLACED ON BATTERS AND OTHER DISTURBED AREAS, THESE AREAS SHOULD BE STABILISED PER FINAL DESIGN TREATMENT (REFER DRAWING C701) WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C710). IF A RAINFALL EVENT IS FORECAST WHICH IS LIKELY TO CAUSE RUNOFF PRIOR TO DISTURBED OR EXPOSED AREAS BEING STABILISED, A COMBINATION OF MULCH, BINDER OR BIDUM IS TO BE USED TO COVER EXPOSED AREAS. INSTALLATION OF TEMPORARY EROSION CONTROL TO ACTIVE OR INACTIVE WORK AREAS, PRIOR TO RAINFALL EVENTS UNTIL FINAL DESIGN TREATMENT (STABILISATION PER DRAWING C701) IS CRITICAL GIVEN INABILITY TO INSTALL TYPE 1 CONTROLS.
- STEP 4**  
ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MONITORED UNTIL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AS REQUIRED BY THE SUPERINTENDENT.

**NOTES**

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS RELEVANT TO PROPOSED SUB-PRECINCT ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. ALL CLEAN AND DIRTY WATER CATCH DRAINS ARE TO HAVE ROCK CHECK DAMS PLACED IN ACCORDANCE WITH IECA STD DWG RCD-01.
4. CONTRACTOR TO ENSURE STORMWATER DRAINAGE IS COVERED AT ALL TIMES DURING EARTHWORKS PHASE.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

*T. Clark*  
 TERRY CLARK (CPESC 6089)

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD PB
03/09/2021	A	ORIGINAL ISSUE	KK PB
			REC APP

**Premise**  
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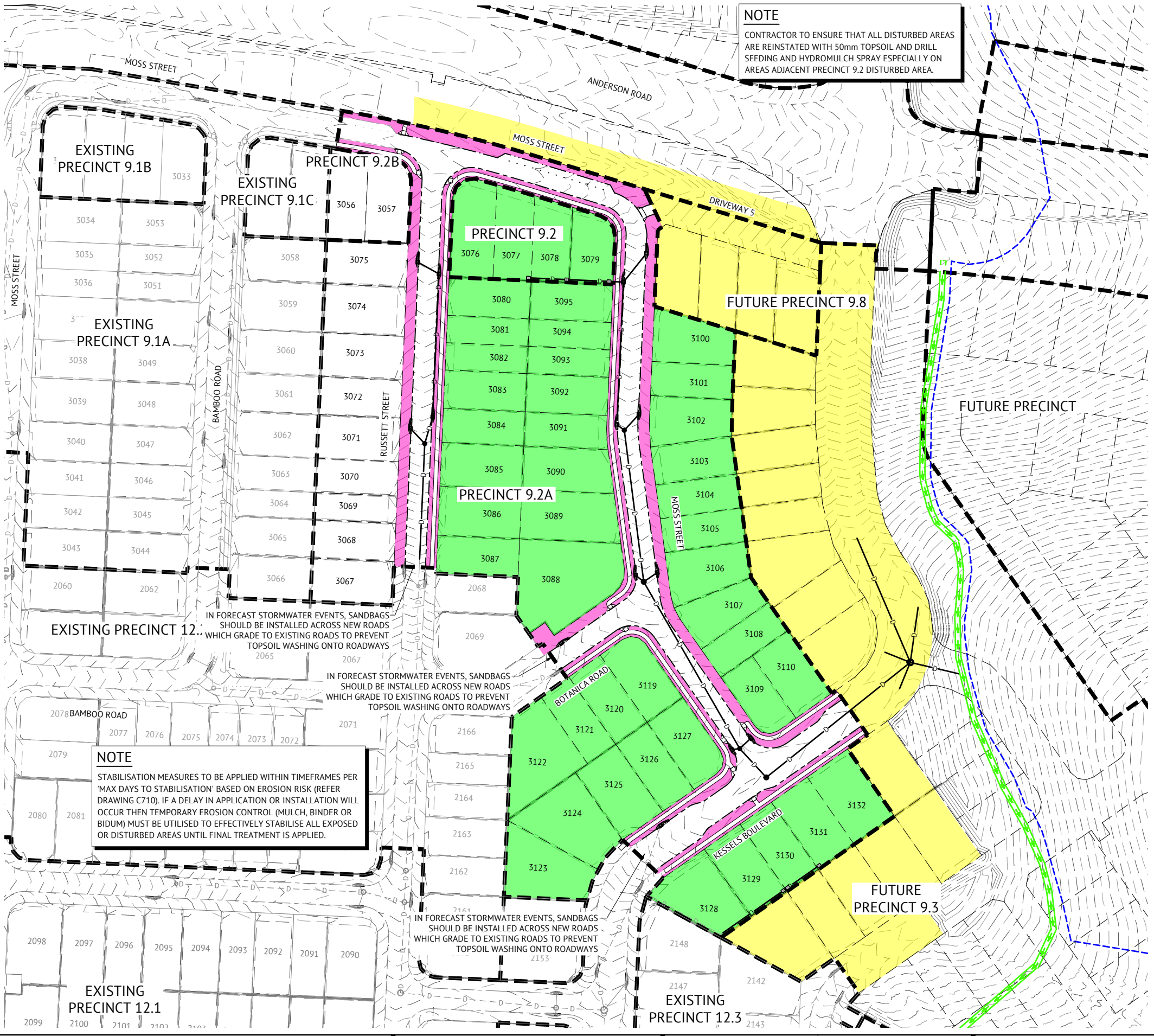
DESIGNED  
**K KIWANG**  
 CHECKED  
**A LANGDON**  
 PROJECT MANAGER  
**S STEINHOFER**  
 PROJECT DIRECTOR  
**P. Brady**  
 PATRICK BRADY RPEQ 7112

SCALE  
 0 15 30 45m  
 SCALE 1:750(A1)  
 ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
 PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**EROSION AND SEDIMENT CONTROL - EARTHWORKS PHASE**

JOB CODE  
**MIR009-02**  
 SHEET NUMBER  
**C700**  
 REV  
**B**





**NOTE**  
 CONTRACTOR TO ENSURE THAT ALL DISTURBED AREAS ARE REINSTATED WITH 50mm TOPSOIL AND DRILL SEEDING AND HYDROMULCH SPRAY ESPECIALLY ON AREAS ADJACENT PRECINCT 9.2 DISTURBED AREA.

- LEGEND - PROPOSED**
- PROPOSED STORMWATER
  - 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING. HYDROMULCH TO BE SPRAYED IMMEDIATELY AFTER.
  - 100mm THICK TOPSOIL AND TURF
  - 50mm THICK TOPSOIL DRILL SEEDING. HYDROMULCH TO BE SPRAYED IMMEDIATELY AFTER.
  - FINISHED MAJOR CONTOURS (0.50m)
  - FINISHED MINOR CONTOURS (0.25m)

- LEGEND - EXISTING**
- MAJOR CONTOURS (1.00m)
  - MINOR CONTOURS (0.50m)
  - EXISTING DIRTY WATER DIVERSION BUND.
  - VEGETATION CLEARING LINE

**SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE**

- STEP 6**  
 PRIORITY SHOULD BE GIVEN TO PLACEMENT OF GRAVELS WITHIN ROAD AS A MEANS TO REDUCE EROSION RISK  
 PAVEMENT CONSTRUCTION  
 MAINTAIN SILT FENCES, AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION  
 GULLY INLET CONTROLS TO BE REINSTATED DURING PAVEMENT AND STORMWATER CONSTRUCTION AND MAINTAINED UNTIL ENTIRE UPSLOPE CATCHMENT HAS BEEN STABILISED.
- STEP 7**  
 MAINTENANCE PERIOD  
 MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.
- STEP 8**  
 REMOVE CONSTRUCTION ENTRANCES.
- ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

- NOTES**
1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
  2. ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
  3. CONTRACTOR TO ENSURE THAT GRASS SEEDED AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
  4. FOR STABILISATION MEASURES OF FUTURE PRECINCTS, REFER TO MIR012-01 - C730 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE.

**TURFING AND TOPSOIL NOTE**  
 CONTRACTOR SHALL RESPREAD AMELIORATED TOPSOIL (AMELIORATION REQUIREMENTS AS DIRECTED BY SUPERINTENDENT) TO VERGES AT A THICKNESS OF 100mm. TURFING TO VERGES WITHIN PRECINCT 12.3 WORKS SHALL BE UNDERTAKEN BY THE CIVIL CONTRACTOR.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

*T. Clark*  
 TERRY CLARK (CPESC 6089)

**FOR CONSTRUCTION**

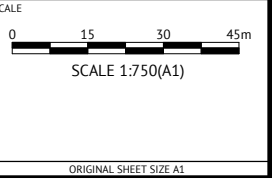
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REVISIONS

**Premise**

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DESIGNED  
 K KIWANG  
 CHECKED  
 A LANGDON  
 PROJECT MANAGER  
 S STEINHOFER  
 PROJECT DIRECTOR  
 PATRICK BRADY  
 RPEQ 7112



CLIENT  
 MIRVAC QLD PTY LTD

PROJECT  
 EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT

LOCATION  
 TEVIOT ROAD, GREENBANK

SHEET TITLE  
 EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE  
 MIR009-02

SHEET NUMBER	REV
C701	B

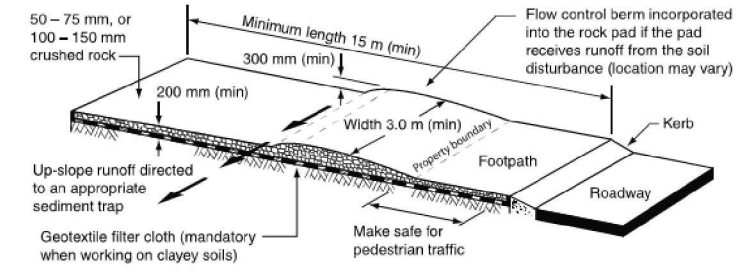


**EROSION & SEDIMENT CONTROL NOTES**

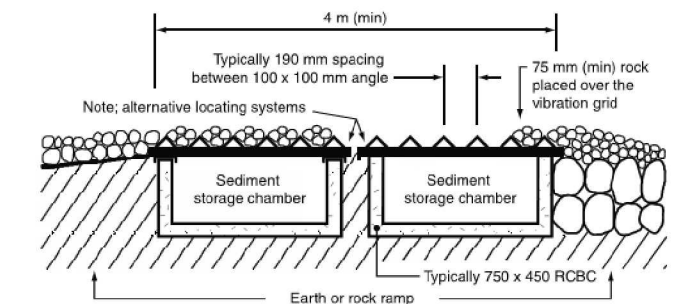
- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
- ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.
- EVERY PRECAUTION IS TO BE TAKEN TO PREVENT THE TRANSPORT OF SILT INTO THE NEWLY LAID STORMWATER PIPES THAT ARE CONNECTED TO THE DOWNSTREAM PIPE SYSTEMS, AND ANY EXISTING OPEN CHANNELS.
- THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.
- THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:
  - ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON EROSION FLOW VELOCITIES;
  - MINIMISE SOIL EROSION FROM WATER AND WIND;
  - MINIMISE ADVERSE EFFECTS OF SEDIMENT RUN-OFF;
  - MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGES FROM THE SITE (E.G. THE EFFECTS OF SEDIMENTATION ON THE ENVIRONMENTAL VALUES OF RECEIVING WATERS); AND
  - ENSURE THAT THE VALUE AND USE OF RESIDENTIAL PROPERTIES ADJACENT TO THE DEVELOPMENT (SUCH AS DRAINAGE AND ROADS) ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.
- THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
- ALL ESC MEASURES SHALL BE INSPECTED:
  - AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE).
  - AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE).
  - WITHIN 24 HOURS OF EXPECTED RAINFALL.
  - WITHIN 18 HOURS OF RAINFALL OCCURRING.
- MAINTENANCE OF ESC MEASURES SHALL OCCUR TO ENSURE THEY ARE OPERATING EFFICIENTLY AND IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

ESC MEASURES	MAINTENANCE TRIGGER	TIME FRAME FOR UNDERTAKING MAINTENANCE
ESC MEASURES	WHEN SETTLED SEDIMENT VOLUME EXCEEDS 25% OF THE CAPACITY OF THE ESC MEASURE	BY THE END OF THE DAY

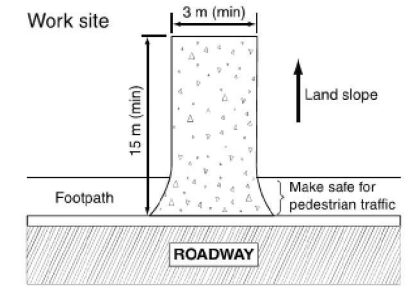
- INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
- STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
- STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
- ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS, INCLUDING (BUT NOT LIMITED TO) TIE WIRE, STAKES, FILTER CLOTH, WIRE MESH AND CLEAN GRAVEL SHOULD BE AVAILABLE ON-SITE.
- ESC MAINTENANCE ACTIVITIES ARE TO BE RECORDED IN AN ON-SITE REGISTER. THE REGISTER IS TO BE MAINTAINED FOR THE DURATION OF THE WORKS AND IS TO BE MADE AVAILABLE TO THE SUPERINTENDENT.
- DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.
- SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.



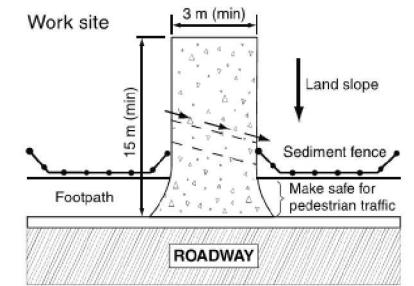
**(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)**



**(c) Alternative low maintenance arrangement (still under development)**



**(b) Rock pad sloping away from road**



**(d) Rock pad sloping towards the road**

**CONSTRUCTION ENTRANCE DETAIL**

**MATERIALS**

COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.

(i) WELL-DECOMPOSED 100% ORGANIC MATTER PRODUCED BY CONTROLLED AEROBIC (BIOLOGICAL) DECOMPOSITION.

(ii) MAXIMUM OF 1% OF INERT MATERIAL.

(iii) MAXIMUM SOLUBLE SALT CONCENTRATION OF 5ds/m, AND pH RANGE OF 5.0 TO 8.5.

(iv) MOISTURE CONTENT OF 30 TO 50% PRIOR TO APPLICATION.

**INSTALLATION**

1. REFER TO APPROVED PLANS FOR LOCATION AND EXTENT. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, EXTENT, MATERIAL TYPE, OR METHOD OF INSTALLATION CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. WHEN SELECTING THE LOCATION OF A COMPOST FILTER BERM, TO THE MAXIMUM DEGREE PRACTICABLE, ENSURE THE BERM IS LOCATED:

(i) TOTALLY WITHIN THE PROPERTY BOUNDARIES;

(ii) ALONG A LINE OF CONSTANT ELEVATION (PREFERRED, BUT NOT ALWAYS PRACTICAL);

(iii) AT LEAST 1m, IDEALLY 3m, FROM THE TOE OF A FILL EMBANKMENT;

(iv) AWAY FROM AREAS OF CONCENTRATED FLOW.

3. ENSURE THE BERM IS INSTALLED IN A MANNER THAT AVOIDS THE

CONCENTRATION OF FLOW ALONG THE BERM, OR THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE BERM.

4. ENSURE THE BERM HAS BEEN PLACED ALONG THE CONTOUR SUCH THAT WATER WILL POOL EVENLY ALONG THE LENGTH OF THE BERM.

5. ENSURE BOTH ENDS OF THE BERM ARE ADEQUATELY TURNED UP THE SLOPE TO PREVENT FLOW BYPASSING PRIOR TO WATER PASSING OVER THE BERM.

6. ENSURE 100% CONTACT WITH THE SOIL SURFACE.

7. WHERE SPECIFIED, TAKE APPROPRIATE STEPS TO VEGETATE THE BERM.

**MAINTENANCE**

1. DURING THE CONSTRUCTION PERIOD, INSPECT THE BERM AT LEAST WEEKLY AND AFTER ANY SIGNIFICANT RAIN. MAKE NECESSARY REPAIRS IMMEDIATELY.

2. REPAIR OR REPLACE ANY DAMAGED SECTIONS.

3. WHEN MAKING REPAIRS, ALWAYS RESTORE THE SYSTEM TO ITS ORIGINAL CONFIGURATION UNLESS AN AMENDED LAYOUT IS REQUIRED OR SPECIFIED.

4. REMOVE ACCUMULATED SEDIMENT IF THE SEDIMENT DEPOSIT EXCEEDS A DEPTH OF 100mm OR 1/3 THE HEIGHT OF THE BERM.

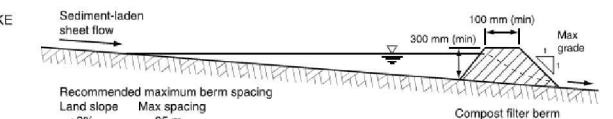
5. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

**REMOVAL (IF REQUIRED)**

1. WHEN DISTURBED AREAS UP-SLOPE OF THE BERM ARE SUFFICIENTLY STABILISED TO RESTRAIN EROSION, THE BERM MAYBE REMOVED.

2. REMOVE ANY COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

3. REHABILITATE/REVEGETATE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.



**Figure 1 - Typical profile of a compost filter berm**

**MULCH BUND DETAIL**

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

Terry Clark  
TERRY CLARK (CPESC 6089)

EROSION RISK RATING												
BASED ON AVERAGE MONTHLY RAINFALL (SOURCE TABLE 4.4.2 IECA 2008)												
MONTHLY DATA	JAN.	FEB.	MAR.	APR.	MAY	JUN.	JUL.	AUG.	SEPT.	OCT.	NOV.	DEC.
MEAN RAINFALL	101.00	79.50	130.90	535.50	33.50	67.80	19.80	24.50	23.40	35.80	109.10	75.500
EROSION RISK	HIGH	MODERATE	HIGH	MODERATE	LOW	MODERATE	VERY LOW	VERY LOW	VERY LOW	LOW	HIGH	MODERATE
	VERY LOW RISK: 0 TO 30mm											
	LOW RISK: 30+ TO 45mm											
	MODERATE RISK: 45+ TO 100mm											
	HIGH RISK: 100+ TO 225mm											
	EXTREME RISK: >225mm											

**EROSION RISK RATING**

APPLICABLE MONTH	EROSION RISK RATING	ADVANCE LAND CLEARING ALLOWED (WEEKS WORK)	MAX DAYS TO STABILISATION	STAGED CONSTRUCTION AND STABILISATION OF EARTH BATTERS > 6H : 1V	STOCKPILES STABILISED
	VERY LOW	8	30 (60%)		
OCTOBER	LOW	8	30 (70%)		
	MODERATE	6	20 (70%)	X	
NOVEMBER	HIGH	4	10 (75%)	X	X
	EXTREME	2	10 (80%)	X	X

**NOTE:**

FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWINGS C210.

**FOR CONSTRUCTION**

DATE	REV	DESCRIPTION	REVISIONS
05/11/2021	B	ISSUED FOR CONSTRUCTION	MD PB
03/09/2021	A	ORIGINAL ISSUE	KK PB

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**K KIWANG**  
CHECKED  
**A LANGDON**  
PROJECT MANAGER  
**S STEINHOFER**  
PROJECT DIRECTOR  
**P Brady**  
PATRICK BRADY RPEQ 7112

SCALE  
ORIGINAL SHEET SIZE A1

CLIENT  
**MIRVAC QLD PTY LTD**  
PROJECT  
**EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT**  
LOCATION  
**TEVIOT ROAD, GREENBANK**  
SHEET TITLE  
**EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2**

JOB CODE  
**MIR009-02**  
SHEET NUMBER  
**C710**  
REV  
**B**

## ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	<ul style="list-style-type: none"> <li>• OVERALL RESPONSIBILITY OF ESC IMPLEMENTATION</li> <li>• NOTIFY THE ENVIRONMENTAL MANAGER IMMEDIATELY OF ANY NON-COMPLIANCE WITH ESCP</li> <li>• ENSURE THE PROMPT IMPLEMENTATION OF MEASURES TO MITIGATE EROSION AND SEDIMENT GENERATION</li> </ul>
SITE SUPERVISOR / FOREMEN	<ul style="list-style-type: none"> <li>• MONITOR DAILY RAINFALL</li> <li>• NOTIFY ENVIRONMENTAL ADVISOR/CONSULTANT WHEN RUNOFF GENERATING RAINFALL OCCURS IN THE PREVIOUS 24 HOURS</li> <li>• MAINTAIN CURRENT RECORDS OF RAINFALL, STORAGE VOLUMES, WATER QUALITY, TREATMENT PRACTICES, DISCHARGE VOLUMES (AS APPROPRIATE)</li> <li>• INSTALLATION AND MAINTENANCE OF ESC</li> </ul>
ENVIRONMENTAL MANAGER	<ul style="list-style-type: none"> <li>• PROVIDE DESIGN INFORMATION AS REQUIRED</li> <li>• CONDUCT IN-SITU MONITORING (AS REQUIRED)</li> <li>• COLLECT AND SUBMIT SAMPLES TO LABORATORY (AS REQUIRED)</li> <li>• COLLATE RESULTS AND PREPARE REPORTS (AS REQUIRED)</li> <li>• CONDUCT SITE INSPECTIONS AND AUDITS (AS REQUIRED)</li> <li>• INSPECT ESC INSTALLATION AND MAINTENANCE</li> <li>• INSPECT OFFSITE IMPACTS AND MANAGEMENT</li> <li>• PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)</li> </ul>
ALL PERSONNEL	<ul style="list-style-type: none"> <li>• REPORT ANY DAMAGE TO ESC DEVICES AND ANY POTENTIAL OR ACTUAL ENVIRONMENTAL HARM IN LINE WITH DUTY TO NOTIFY UNDER THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION ACT 1994</li> </ul>

## CORRECTIVE AND PREVENTATIVE ACTION

AN ENVIRONMENTAL INCIDENT WITH RESPECT TO THE ESCP IS DEFINED AS ANY OCCURRENCE WHERE SEDIMENT IS RELEASED FROM THE SITE, WHETHER CONTROLLED OR UNCONTROLLED, OR WHERE STORM WATER IS RELEASED (CONTROLLED) FROM SITE WHICH DOES NOT MEET THE WATER QUALITY REQUIREMENTS.

ALL INCIDENTS AND NON-CONFORMANCES ARE TO BE REPORTED, INVESTIGATED AND CORRECTED IN ACCORDANCE WITH THE ESCP TO ENSURE EFFECTIVE SOIL AND WATER QUALITY MANAGEMENT PRACTICES AT ALL TIMES.

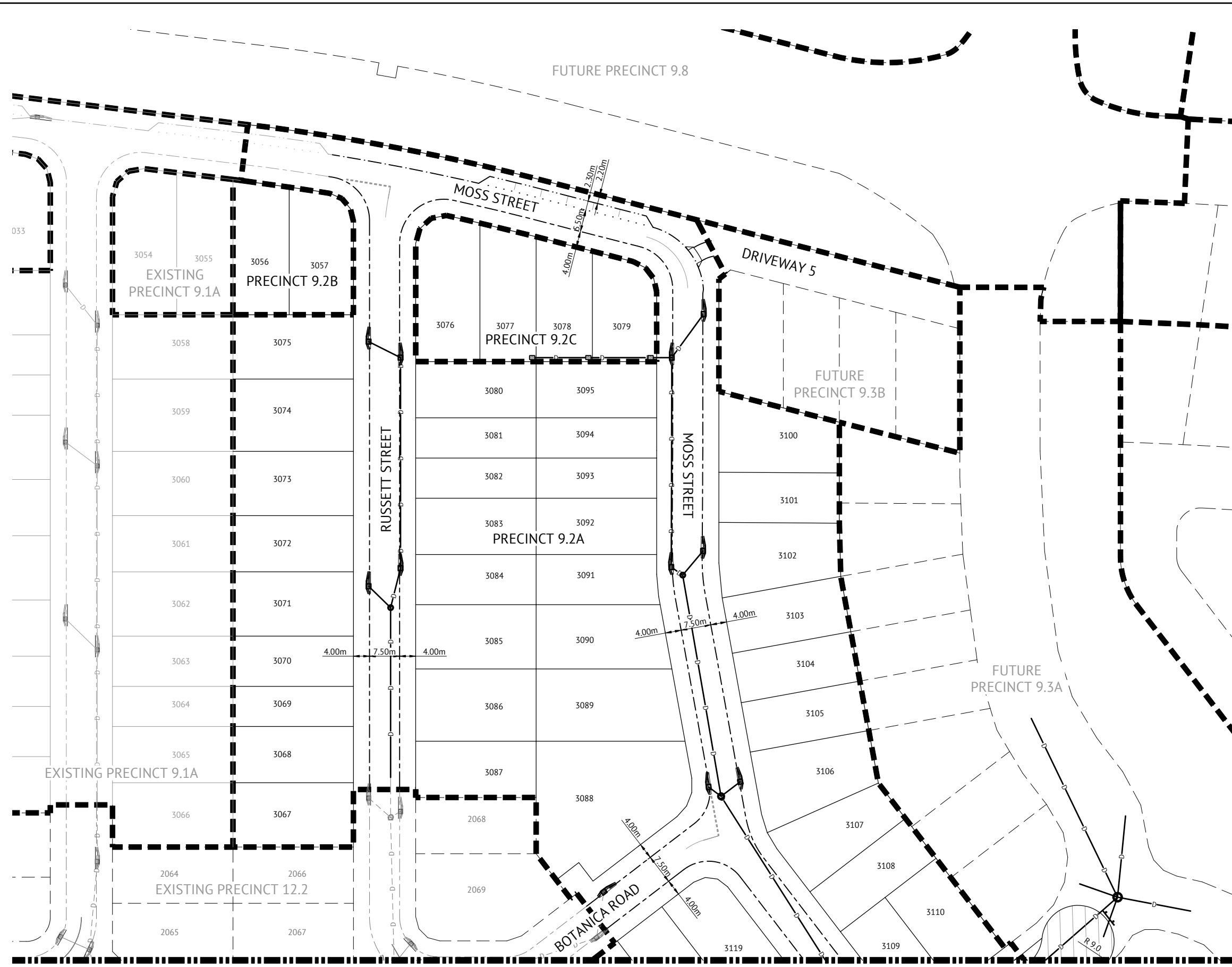
BEST PRACTICE SITE MANAGEMENT REQUIRES ALL ESC MEASURES TO BE INSPECTED BY THE CONTRACTORS NOMINATED REPRESENTATIVE AT LEAST DAILY WHEN RAIN IS OCCURRING, WITHIN 24 HOURS PRIOR TO EXPECTED RAINFALL, AND WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE ONSITE RUNOFF (IECA, 2008). SUCH INSPECTIONS MUST CHECK:

- **DAILY SITE INSPECTIONS** (DURING PERIODS OF RUNOFF PRODUCING RAINFALL)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - ALL SITE DISCHARGE POINTS (INCLUDING DEWATERING ACTIVITIES AS APPROPRIATE)
- **WEEKLY SITE INSPECTIONS** (EVEN IF WORK IS NOT OCCURRING ON-SITE)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.
  - LITTER AND WASTE RECEPTORS
  - OIL, FUEL AND CHEMICALS STORAGE FACILITIES
- **PRIOR TO ANTICIPATED RUNOFF PRODUCING RAINFALL**
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - ALL TEMPORARY FLOW DIVERSION AND DRAINAGE WORKS
- **FOLLOWING RUNOFF PRODUCING RAINFALL**
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.

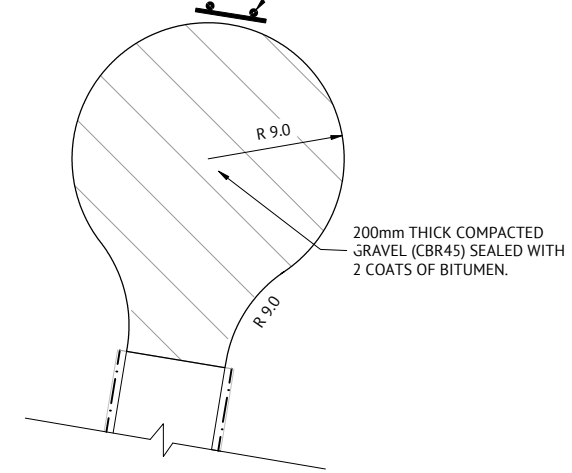
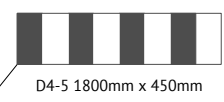
*Terry Clark*  
TERRY CLARK (CPESC 6089)

FOR CONSTRUCTION				<p><b>BRISBANE OFFICE</b> LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	DESIGNED <b>K KIWANG</b> CHECKED <b>A LANGDON</b> PROJECT MANAGER <b>S STEINHOFER</b> PROJECT DIRECTOR <i>Patrick Brady</i> <b>PATRICK BRADY</b>	SCALE	CLIENT <b>MIRVAC QLD PTY LTD</b>	JOB CODE <b>MIR009-02</b>
05/11/2021 B ISSUED FOR CONSTRUCTION MD PB 03/09/2021 A ORIGINAL ISSUE KK PB DATE REV DESCRIPTION REC APP	REVISIONS	PROJECT <b>EVERLEIGH PRECINCT 9.2 SUBDIVISION DEVELOPMENT</b>	LOCATION <b>TEVIOT ROAD, GREENBANK</b>		SHEET TITLE <b>EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2</b>	SHEET NUMBER <b>C711</b>	REV <b>B</b>	



JOINS DRAWING C901

**NOTE**  
 CONTRACTOR TO ENSURE THAT THE SURFACE WATER IN TURNAROUND IS DIRECTED TO KERB AND CHANNEL AND OVERLAND FLOW PATHS ARE CONSIDERED. CONTRACTOR TO NOTIFY SUPERINTENDENT SHOULD THIS CRITERIA NOT BE MET.



**TYPICAL TEMPORARY TURN AROUND DETAIL**  
 SCALE: 1:250

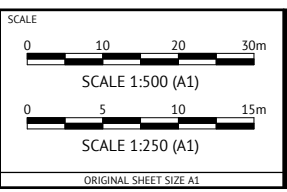
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 LOCATION  
**TEVIOT ROAD, GREENBANK**  
 SHEET TITLE  
**TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2**

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