EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC QLD PTY LTD

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 PLAN - SHEET 1
C101	ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2
C200	BULK EARTHWORKS LAYOUT PLAN - SHEET 1
C201	BULK EARTHWORKS LAYOUT PLAN - SHEET 2
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2
C220	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS
C300	ROADWORKS NOTES AND DETAILS
C310	ROAD 73 LONG SECTION
C311	ROAD 73 CROSS SECTIONS - SHEET 1
C312	ROAD 73 CROSS SECTIONS - SHEET 2
C313	ROAD 108 LONG AND CROSS SECTIONS
C314	ROAD 115 LONG AND CROSS SECTIONS
C315	ROAD 123 LONG AND CROSS SECTIONS
C316	ROAD 124 LONG AND CROSS SECTIONS
C317	ROAD 125 LONG AND CROSS SECTIONS
C318	DRIVEWAY 11 LONG AND CROSS SECTIONS
C320	INTERSECTION DETAILS LAYOUT - SHEET 1
C321	INTERSECTION DETAILS LAYOUT - SHEET 2
C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 1
C331	PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 2
C400	STORMWATER CATCHMENT LAYOUT PLAN
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS
C440	STORMWATER CALCULATIONS 39% AEP STORM
C441	STORMWATER CALCULATIONS 1% AEP STORM
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C520	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 1
C521	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 2
C522	SEWERAGE RISING MAIN LONG SECTIONS
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1
C611	WATER RETICULATION LAYOUT PLAN- SHEET 2
C620	WATER LIVE CONNECTION AND TYPICAL DETAILS
C700	OVERALL EROSION & SEDIMENT CONTROL KEY PLAN
C701	EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE
C702	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE
C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
C720	EROSION AND SEDIMENT CONTROL DRAIN DETAILS
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1
C901	TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

GENERAL NOTES

1. ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL NEW WORK AND MATERIALS SHALL COMPLY WITH CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
4. 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.
5. 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.
6. CONSTRUCTION CERTIFICATION REQUIREMENTS SUCH AS PAVEMENT PROOF ROLLS ETC. ARE TO BE AS PER THE LOGAN CITY COUNCIL SPECIFICATION.
7. THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
8. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.
9. 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

1. 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

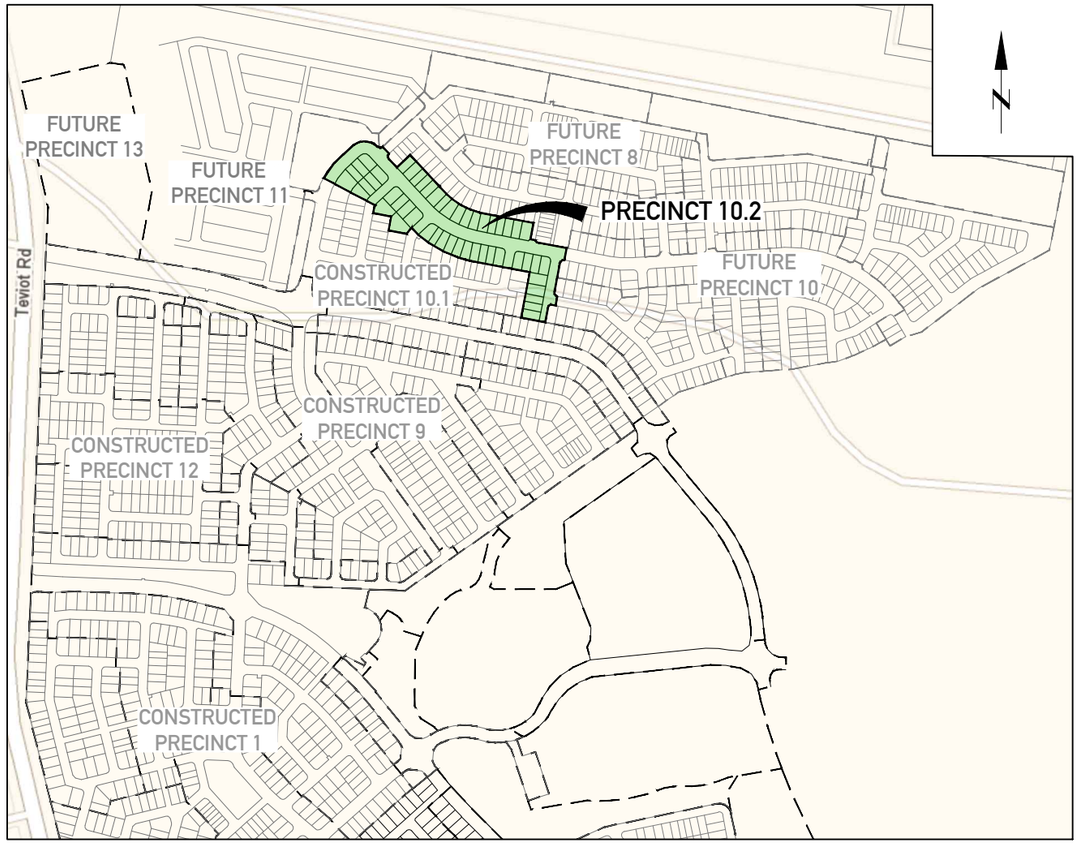
1. NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
2. THE CONTRACTOR IS RESPONSIBLE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

WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

1. 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.
2. THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).



LOCALITY PLAN
Scale 1:5000

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 100 200 300m
SCALE 1:5000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE COVER SHEET

JOB CODE MIR-1002
SHEET NUMBER C001
REV B

LEGEND

PROPOSED ROAD CENTRELINE

STAGE BOUNDARY

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.

LEVEL DATUM: AHD (DERIVED)

ORIGIN - PM61308
RL OF ORIGIN - 54.660m A.H.D

ORIGIN OF COORDINATES: STATION C1 (PM 73506)

PROJECT COORDINATES - STN C1, 8792.646 E, 32093.723 N

FOR FURTHER DETAILS REFER TO DETAIL SURVEY DRAWING 7598 S 02 DT H PREPARED BY SAUNDERS HAVILL GROUP.

SITE AREA

35,731m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

LAYOUT PLAN

SCALE 1:1000

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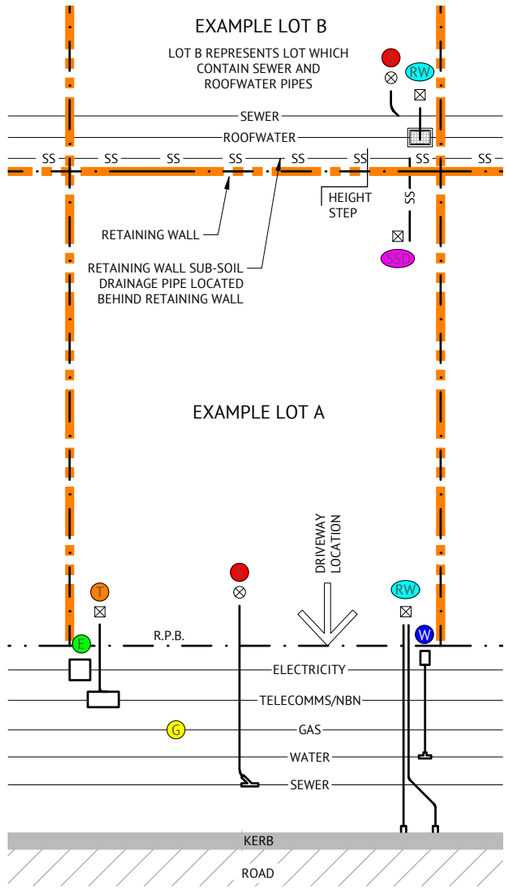
SCALE 0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SURVEY SETOUT PLAN

JOB CODE MIR-1002
SHEET NUMBER C002
REV B



TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL

NTS

LEGEND - PROPERTY SERVICE CONNECTIONS

(W) **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."

(RW) **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."

(SSD) **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".

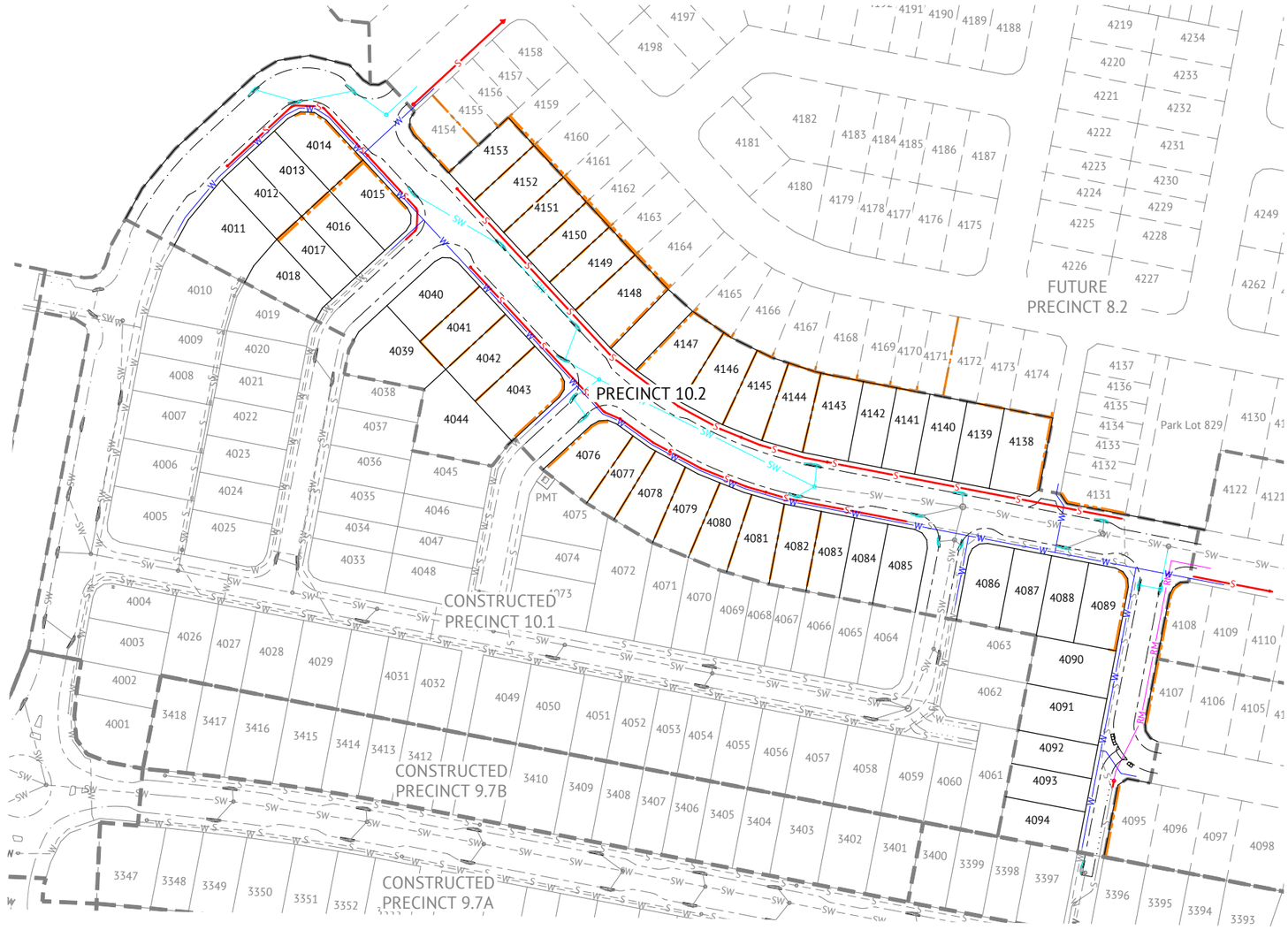
(T) **TELECOMMUNICATIONS/NBN** - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".

(E) **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".

(G) **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



LAYOUT PLAN

SCALE 1:1000

LEGEND - PROPOSED

SW	STORMWATER
W	WATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN

LEGEND - CONSTRUCTED

SW	STORMWATER
S	GRAVITY SEWER
W	WATER

FOR CONSTRUCTION

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SCALE 0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE OVERALL SERVICES LAYOUT

JOB CODE MIR-1002
SHEET NUMBER C003
REV B

DESIGN HAZARD NOTES:

1. 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.
2. THIS REPORT SUMMARISES AN INTERNAL REVIEW OF PREMISE'S DETAILED DESIGN DRAWINGS FOR DESIGN SAFETY.
3. 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.
4. 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.
5. 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. PREMANENT INJURT TO PERSON INSITE.	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:

1. 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.
2. 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 IS EXPECTED TO OCCUR IN MOST CERTAIN CIRCUMSTANCES	MORE THAN ONCE PER YEAR
B - LIKELY	THE EVENT WILL PROBABLY OCCUR IN MOST CIRCUMSTANCES	AT LEAST ONCE IN 5 YEARS
C - POSSIBLE	THE EVEN T SHOULD OCCUR AT SOME TIME	AT LEAST ONCE IN 10 YEARS
D - UNLIKELY	THE EVENT COULD OCCUR AT SOME TIME	AT LEAST ONCE IN 30 YEARS
E - RARE	THE EVENT MAY 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 SWEPT 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

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ORIGINAL SHEET SIZE A1

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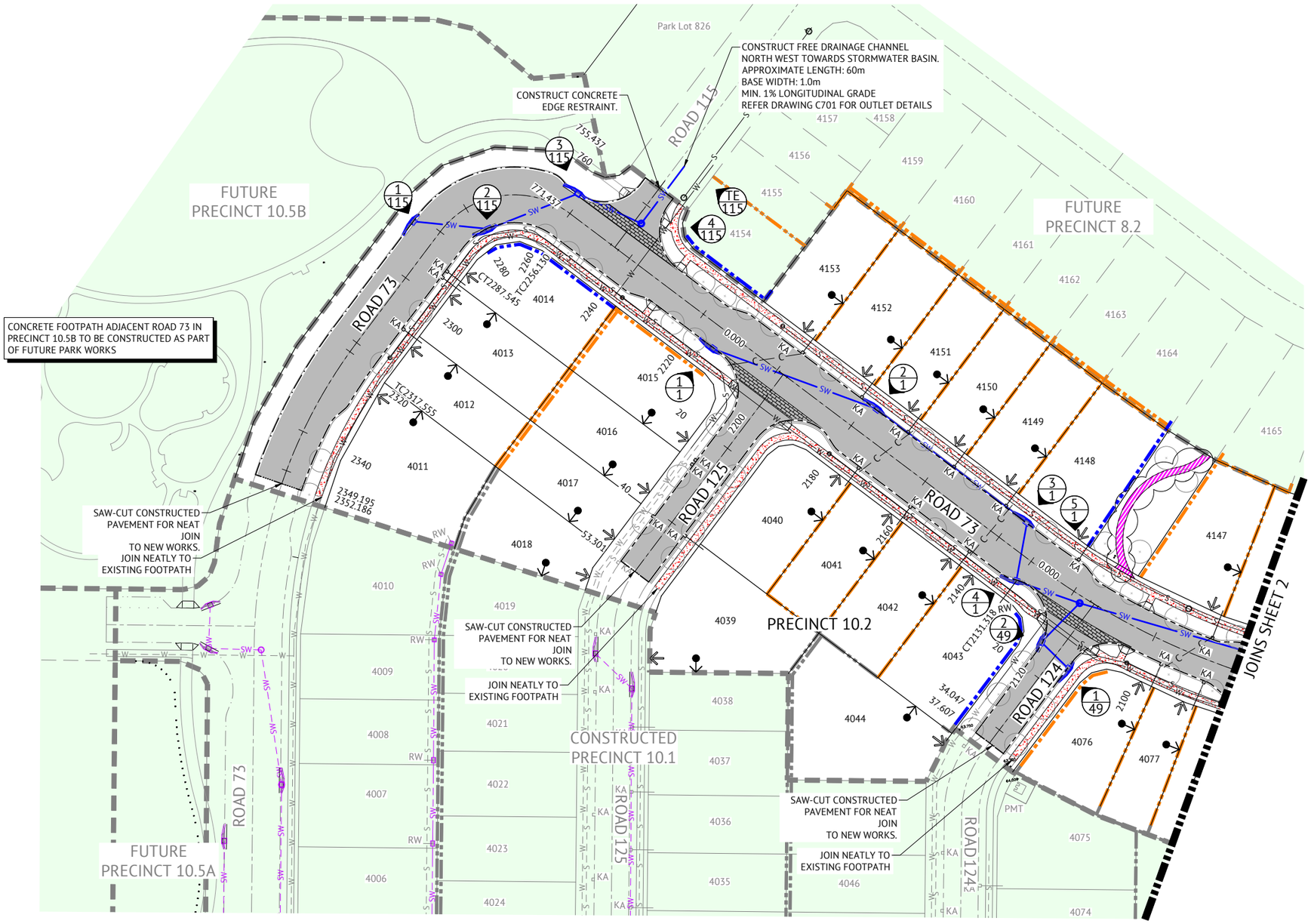
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SAFETY IN DESIGN

JOB CODE MIR-1002
SHEET NUMBER C004
REV B



LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- PAVEMENT
- PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- SW — PROPOSED STORMWATER
- 1/52 — PROPOSED STORMWATER STRUCTURE No.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- RW — PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- S — PROPOSED SEWER
- W — PROPOSED WATER
- C — C — C — C — PROPOSED WATER CONDUIT
- STAGE BOUNDARY
- DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.
- PROPOSED LANDSCAPING. 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.
- TREES
- BOLLARD

LEGEND - CONSTRUCTED

- KA — ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- RW — ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- SW — SW — STORMWATER
- S — S — SEWER
- W — W — WATER
- RETAINING WALL
- 13/501 — STORMWATER STRUCTURE No.
- PMT — PADMOUNT TRANSFORMER

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 LIAISE WITH OWN GEOTECHNICAL ENGINEER TO ACHIEVE REQUIREMENT.

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. C420 - STORMWATER DRAINAGE DETAILS AND NOTES.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED LANDSCAPE PATH HATCH	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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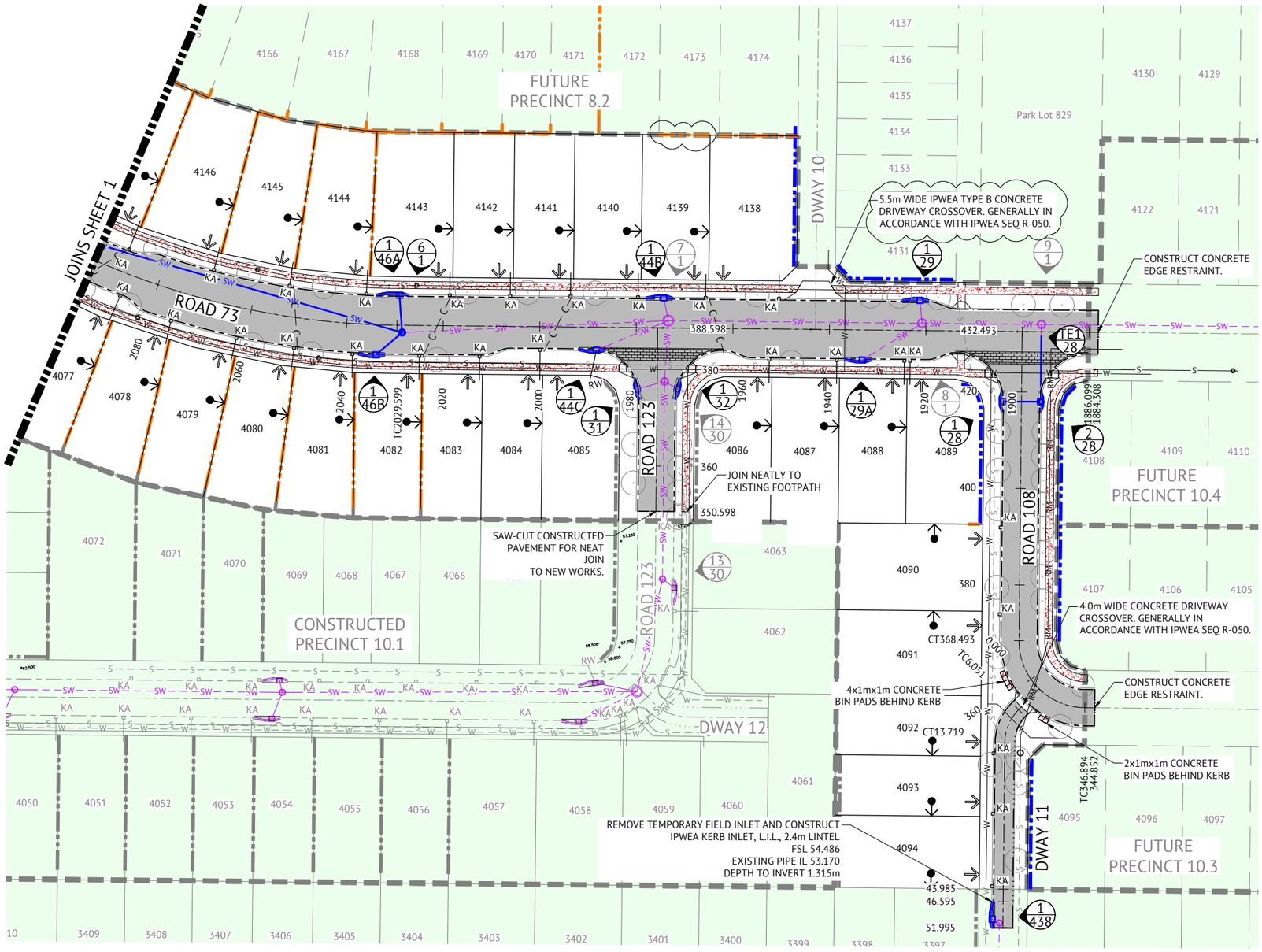
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE: 0 10 20 30m — SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1

JOB CODE: MIR-1002
SHEET NUMBER: C100
REV: B



LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- PAVEMENT
- PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
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- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- SW — PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- RW — PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- S — PROPOSED SEWER
- RM — PROPOSED SEWER RISING MAIN
- W — PROPOSED WATER
- C C C C — PROPOSED WATER CONDUIT
- STAGE BOUNDARY
- DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.
- PROPOSED LANDSCAPING. 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.
- TREES

LEGEND - CONSTRUCTED

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PAVEMENT SUBGRADE GUARANTEE:

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STORMWATER TRENCH BACKFILL NOTE:

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- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING No. C420 - STORMWATER DRAINAGE DETAILS AND NOTES.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - ADDED RETAINING WALL, AMENDED DRIVEWAY WIDTH	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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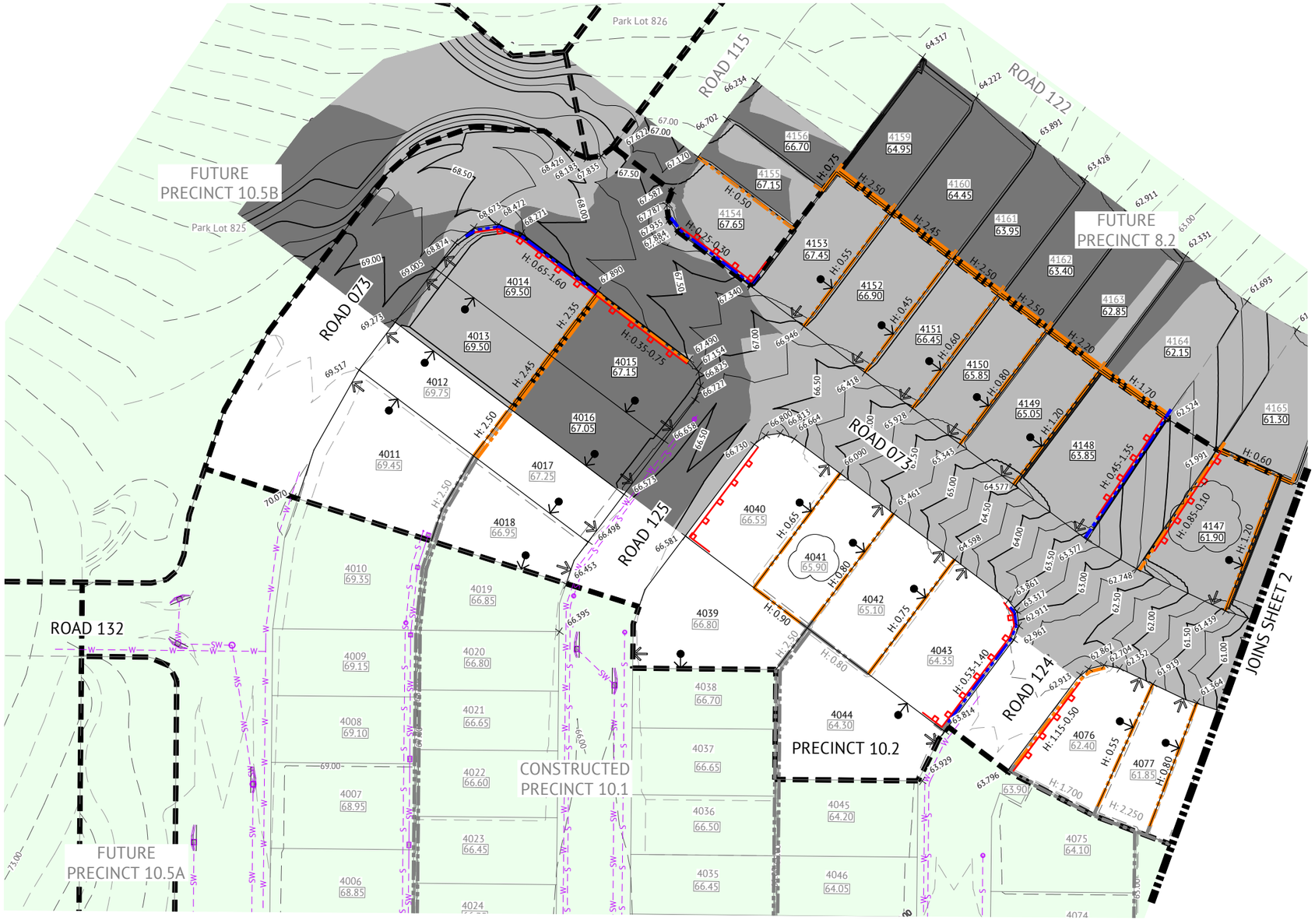
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

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

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

JOB CODE: MIR-1002
SHEET NUMBER: C101
REV: B



LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- NO CHANGES TO BULK EARTHWORKS. EARTHWORKS DONE AS PART OF PRECINCT 10.1 EARTHWORKS PACKAGE
- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.25m)
- 51.65 — FINISHED SURFACE LEVEL
- H1.0 — PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- H1.0 — PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25 — FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- 12.0 — CONTOURS (0.50m)
- SW — STORMWATER
- S — SEWER
- W — WATER

NOTES

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

EARTHWORKS FOR LOTS 4011-4012, 4017-4018, 4039-4044 & 4076-4094 COMPLETED AS PART OF PRECINCT 9 & 10.1 WORKS

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED PAD LEVELS AND RETAINING WALL HEIGHTS	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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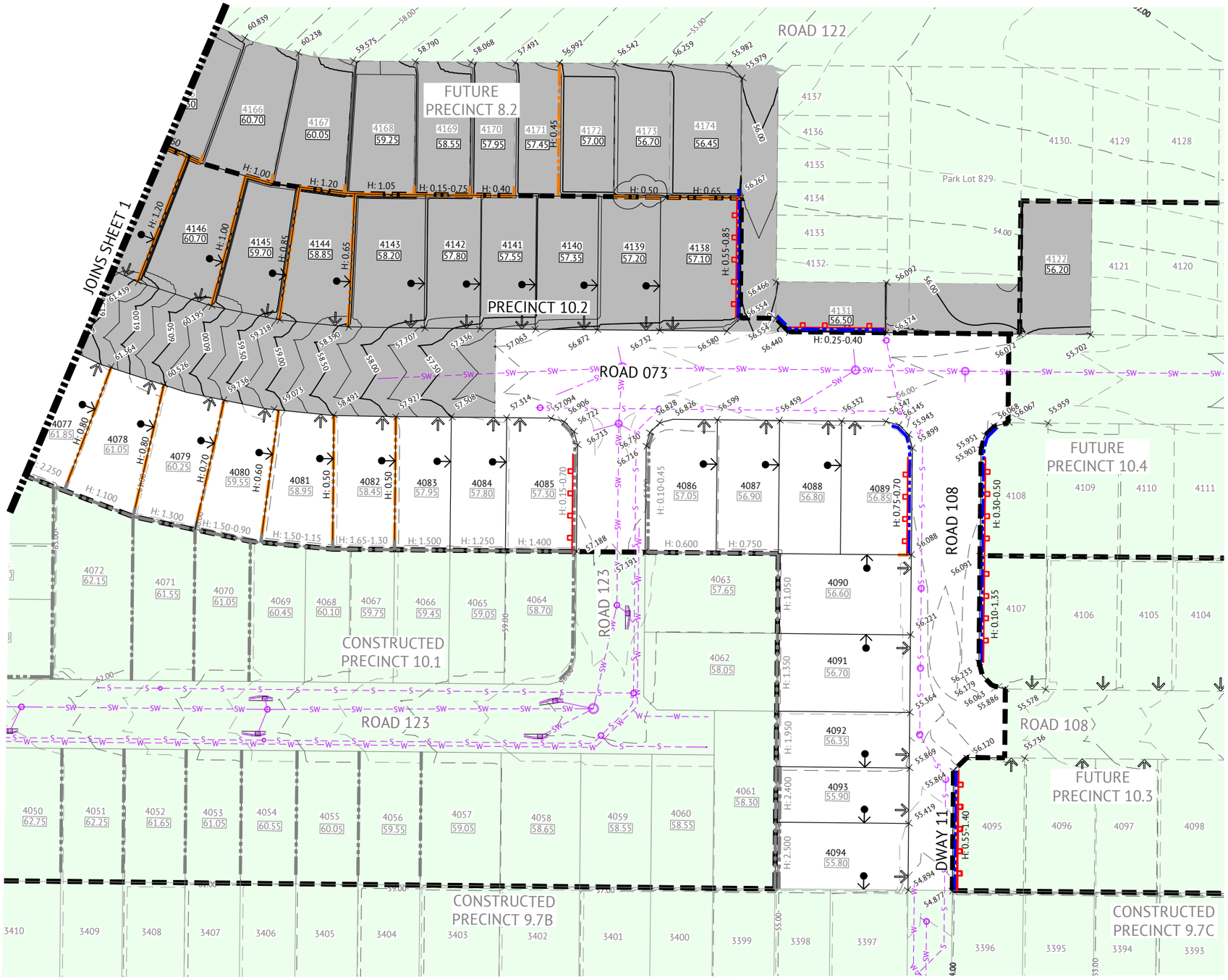
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

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

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS LAYOUT PLAN - SHEET 1

JOB CODE MIR-1002
SHEET NUMBER C200
REV B



EARTHWORKS FOR LOTS 4011-4012, 4017-4018, 4039-4044 & 4076-4094 COMPLETED AS PART OF PRECINCT 9 & 10.1 WORKS

LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- NO CHANGES TO BULK EARTHWORKS. EARTHWORKS DONE AS PART OF PRECINCT 10.1 EARTHWORKS PACKAGE
- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.25m)
- 51.65 — FINISHED SURFACE LEVEL
- H1.0 — PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- H1.0 — PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25 — FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- 12.0 — CONTOURS (0.50m)
- SW — STORMWATER
- S — SEWER
- W — WATER

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - ADDED RETAINING WALL	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: BULK EARTHWORKS LAYOUT PLAN - SHEET 2

JOB CODE: MIR-1002
SHEET NUMBER: C201
REV: B

NOTES

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

TESTING

1. 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

1. 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	

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

DUST

1. 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 MODELLNG AND ASSESSMENT OF AIR POLLUTANTS IN NSW."
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

FILL MANAGEMENT

1. 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.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
5. 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.
6. 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.
7. 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.
8. 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.
9. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
10. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
11. 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.
12. 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[a]	EWL or FSL +/- 50mm
CUT BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 150mm[b]
FILL BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 300mm[b]
EARTHWORKS IN PARKS	EWL or FSL +/- 50mm

[a] TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.
[b] MEASURED FROM THE AVERAGE SLOPE PLANE.

TOLERANCE NOTES

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

DISPERSIVE SOILS MANAGEMENT NOTES

1. GYPSUM TREATMENT FOR DISPERSIVE SOILS SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE EVERLEIGH DISPERSIVE SOIL MANAGEMENT PLAN (REPORT #GE20.042.R1). AREAS THAT REQUIRED TREATMENT REGARDLESS OF NOMINATING ON PLANS ARE:
   - ALL SERVICE TRENCHES BELOW AND ABOVE BEDDING MATERIAL, INCLUDING STRUCTURES, E.G. MANHOLES.
   - UNDER AND SURROUNDING STORMWATER HEADWALLS
   - TURF/LANDSCAPED AREAS SUBJECT TO DIRECTED WATER FLOWS. TREATMENT AT FINISHED EARTHWORKS PRIOR TO TOPSOIL PLACEMENT/FINISH LANDSCAPE SURFACE.
   - TURF/LANDSCAPED AREAS SUBJECT TO WATER PONDING. TREATMENT AT FINISHED EARTHWORKS PRIOR TO TOPSOIL PLACEMENT/FINISH LANDSCAPE SURFACE.
   - TREATMENT TO INSITU/UNTOUCHED ROCK IS NOT REQUIRED.
2. 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. THE CONTRACTOR IS TO REVIEW THE PROPOSED DRAINS AND DETERMINE IF TREATMENT TO ANY DIVERSION DRAIN IS REQUIRED BASED ON TIME IN USE ON DURING WORKS. TREATMENT TO BE IN ACCORDANCE WITH THE DSMP.
3. CONTRACTOR MUST CONSTRUCT AND ESTABLISH THE EROSION AND SEDIMENT CONTROL DEVICES, CONSTRUCTION WATER HOLDING DAM AND HES BASIN PRIOR TO COMMENCING EARTHWORKS OPERATION. TREATMENT TO THE SURFACE OF ANY WATER RETAINING BODY SHALL BE IN ACCORDANCE WITH THE DSMP
4. 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^3 OF TOPSOIL)
- DOLOMITE (15kg/m^3 OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m^3 OF TOPSOIL)
- FERTILISER (0.4kg/m^3 OF TOPSOIL)

B-GRADE QUALITY TOPSOIL AMELIORATION:
- SCREEN STRIPPED TOPSOIL
- DOLOMITE (15kg/m^3 OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m^3 OF TOPSOIL)
- FERTILISER (0.4kg/m^3 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:
1. OMC - OPTIMUM MOISTURE CONTENT
2. LAYER OF THICKNESS IS LIMITED TO 300mm TO ALLOW IDENTIFICATION OF LARGER PARTICLES AND ALLOW EVERY CHANCE OF BREAK DOWN IN FILLING OR REMOVAL.
3. 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.
4. UPPER 0.6m, (PARTICULARLY IN AREAS OF DEEP FILL), OF THE FILL PROFILE TO BE RELATIVELY IMPERMEABLE HENCE INCREASE IN FINES COMPONENT.
5. 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.
6. 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

1. DELIVER RESIDENTIAL LOTS WITH FAVOURABLE LOT CLASSIFICATIONS - I.E - NO P CLASSIFICATIONS
2. FILL THICKNESS DOES NOT VARY MORE THAN 2m OVER A DISTANCE OF 10m
3. CONSTRUCT FILL AND LIMIT LONG TERM CREEP SETTLEMENTS TO WITHIN 0.5% TO 1.0% OF THE FILL THICKNESS
4. BUILDING PLATFORM THAT ALLOWS BUILDERS TO CONSTRUCT SLAB ON GROUND RAFTS USING LIGHT EARTHMOVING EQUIPMENT
5. 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
6. CREATING A FILL PLATFORM THAT IS ABLE TO BE TESTED IN ACCORDANCE WITH AS3798 AND AS1289

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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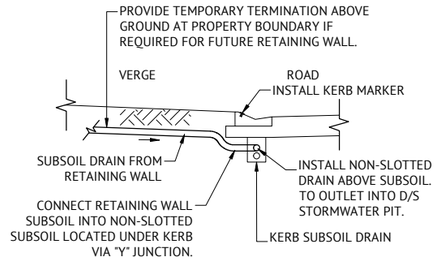
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112
SCALE
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS NOTES AND DETAILS - SHEET 1

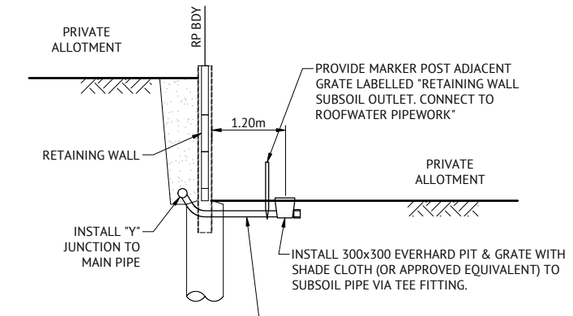
JOB CODE MIR-1002
SHEET NUMBER C210
REV B



SHALL BE INSTALLED FOR ALL RETAINING WALLS LOCATED ON INTERALLOTMENT BOUNDARIES.

TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD

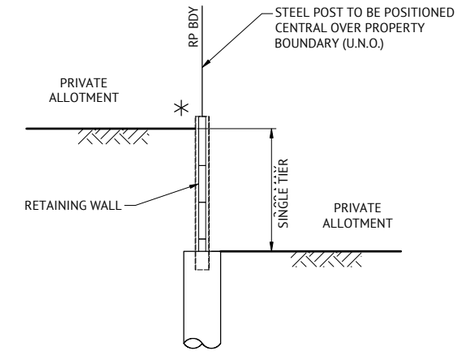
N.T.S.



SHALL BE INSTALLED IN REAR CORNER OF ALL ALLOTMENTS LOCATED BELOW A RETAINING WALL.

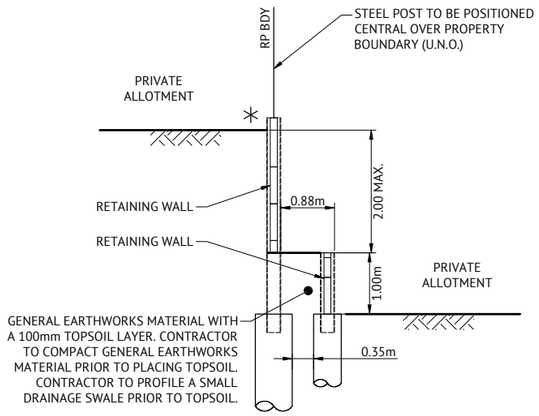
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS

N.T.S.

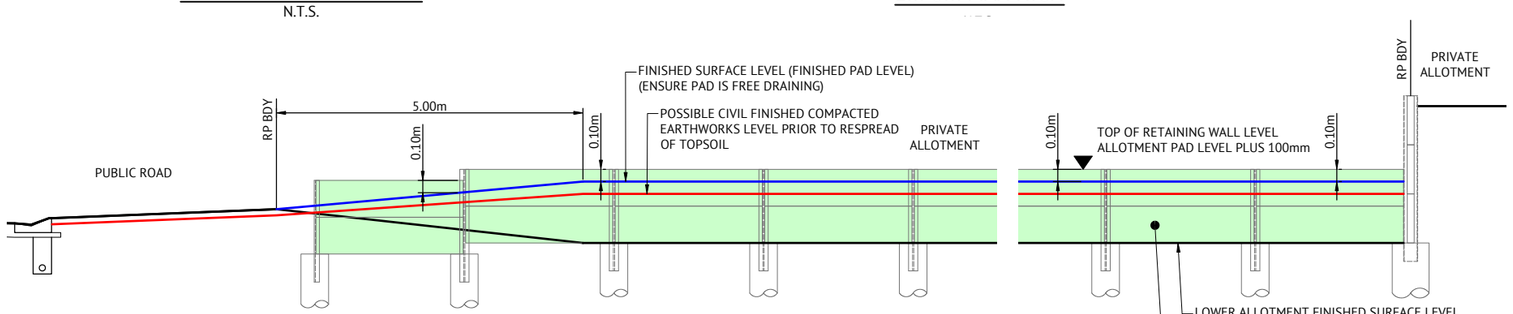


TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT 0.4m-2m MAX HIGH

N.T.S.

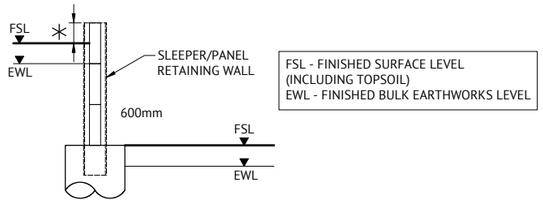


TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT 2m-3m MAX HIGH



TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL SETOUT AND END DETAIL

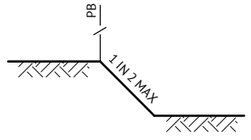
N.T.S



FSL - FINISHED SURFACE LEVEL (INCLUDING TOPSOIL)
EWL - FINISHED BULK EARTHWORKS LEVEL

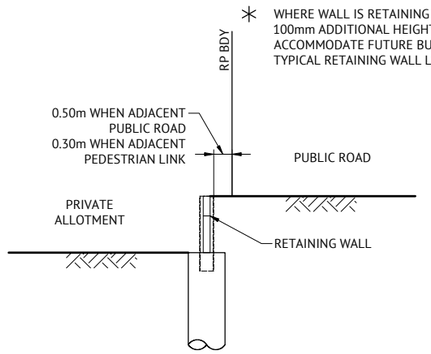
TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL

N.T.S.



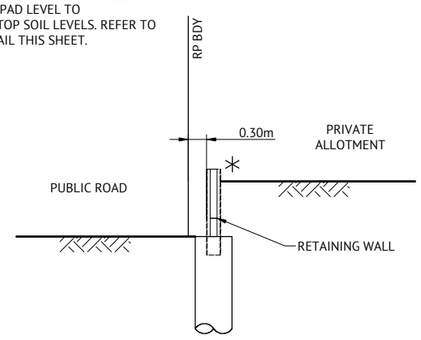
TYPICAL SECTION FOR BATTERS BETWEEN LOTS

SCALE 1:20



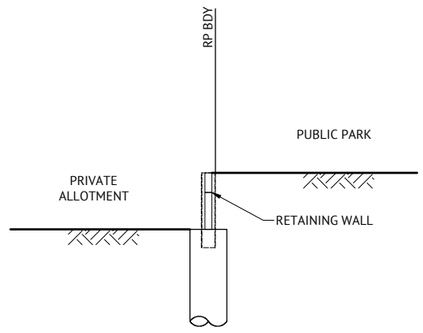
TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER

N.T.S.



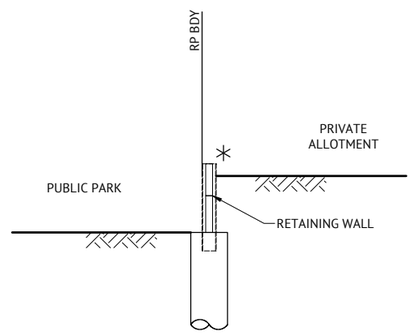
TYPICAL RETAINING WALL DETAIL ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

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.

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 ENCROACH 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 REQUREMENT 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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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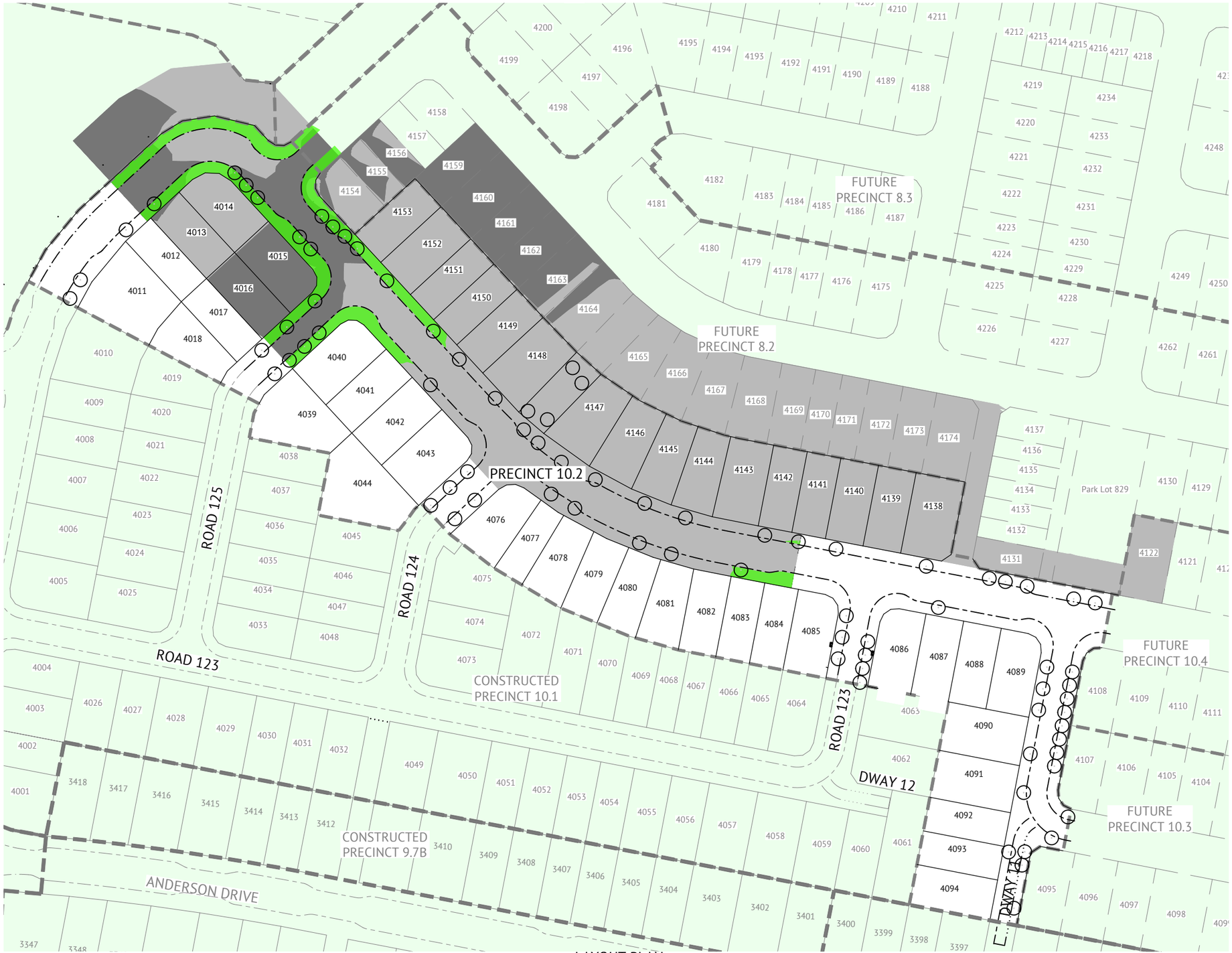
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112
SCALE NTS
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BULK EARTHWORKS NOTES AND DETAILS - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C211
REV B



LAYOUT PLAN

SCALE 1:750

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- TREES
- BOLLARD
- STREET TREE / PLANTING AREA. CONTRACTOR TO ENSURE AREA IS FREE OF ROCK UP TO A DEPTH OF 1.5M BELOW DESIGN FSL (I.E. ENSURE AREA IS EASY DIGGING FOR THE INSTALLATION OF TREES AND PLANTING). CONTRACTOR TO ALSO ENSURE THESE AREAS ARE CONNECTED INTO THE NEAREST STORMWATER STRUCTURE AND MADE FREE DRAINING VIA SLOTTED AGI PIPE.

ALLOTMENT PREPARATION REQUIREMENT:

CONTRACTOR SHALL ENSURE THAT ALL ALLOTMENTS WHERE LOCATED IN CUT WITHIN ROCK, SHALL BE OVER-EXCAVATED A MINIMUM 500mm DEPTH BELOW DESIGN EARTHWORKS LEVEL AND RECOMPACTED TO LEVEL ONE CERTIFICATION.

FOR CONSTRUCTION

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07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR 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 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS

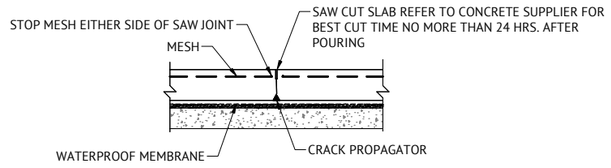
JOB CODE MIR-1002
SHEET NUMBER C220
REV B

NOTES

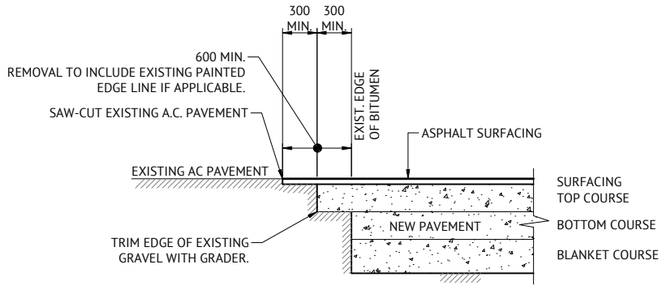
1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
2. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED SURFACE CONTOURS MAY BE ADJUSTED BY WRITTEN DIRECTION OF THE SUPERINTENDENT DURING CONSTRUCTION.
3. 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.
4. 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.
5. ALLOTMENT FILLING TO BE COMPACTED TO 95% (min) OF THE R.D.D. (AS 1289 - TESTS E1.1, E4.1).
6. LEVELS AND SETOUT INFORMATION FOR KERB AND CHANNEL CONSTRUCTION IS GIVEN TO LIP OF KERB.
7. LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS APPROVED BY THE SUPERINTENDENT TO ACHIEVE SATISFACTORY CONNECTION TO THE EXISTING WORKS.
8. SIDE DRAINS AND MITRE DRAINS TO BE CONSTRUCTED ADJACENT TO ALL KERB AND CHANNEL.
9. PROVIDE FLUSH POINTS TO SUBSOIL DRAINS, LOCATIONS TO BE CONFIRMED ON SITE.
10. 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.
11. GULLIES AND GULLY GRATES SHALL BE TO STD. DRGs BSD-8051 - BSD-8059.
12. KACEY GALV. STEEL KERB ADAPTORS ARE TO BE INSTALLED TO THE REQUIREMENTS OF THE LOCAL COUNCILS STANDARD DRAWINGS AND SPECIFICATIONS.
13. ALL LOTS SHOWN BOXED TO HAVE ROOFWATER FOOTPATH CROSSINGS TO KERB. CROSSINGS ARE TO BE 88.9 DIA. GALV. CHS.TO KACEY KERB ADAPTOR.
14. ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
15. 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.
16. ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
17. HAZARD MARKERS (D4-4A) TO BE PLACED AT THE END OF NEW WORKS AS DIRECTED BY SUPERINTENDENT.
18. SITE CBR VALUE AND PAVEMENT DESIGN AND DEPTHS TO BE VERIFIED WITH CBR TESTS PRIOR TO CONSTRUCTION.
19. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
20. TO BE READ IN CONJUNCTION WITH ALL STORMWATER DRAINAGE LAYOUT PLANS & ROADWORKS DETAILS.

ROADWORKS NOTES

1. 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.
2. 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.
3. TRANSITION KERB AND CHANNEL TO BARRIER KERB SMOOTHLY OVER MIN. 1.0m LENGTH.
4. 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.
5. 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.

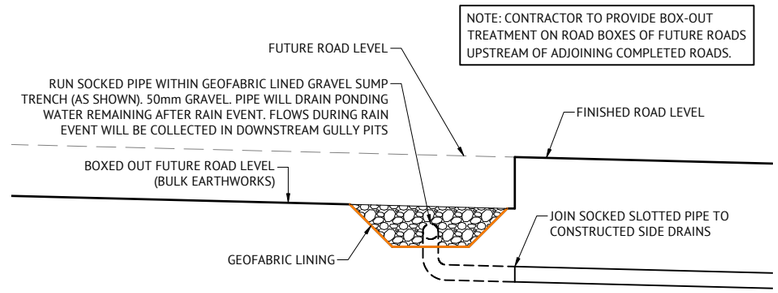


SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S



TYPICAL FUTURE ROADS BOX-OUT TREATMENT

FOR CONSTRUCTION

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CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 0.4 0.8 1.2m
SCALE 1:20 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROADWORKS NOTES AND DETAILS

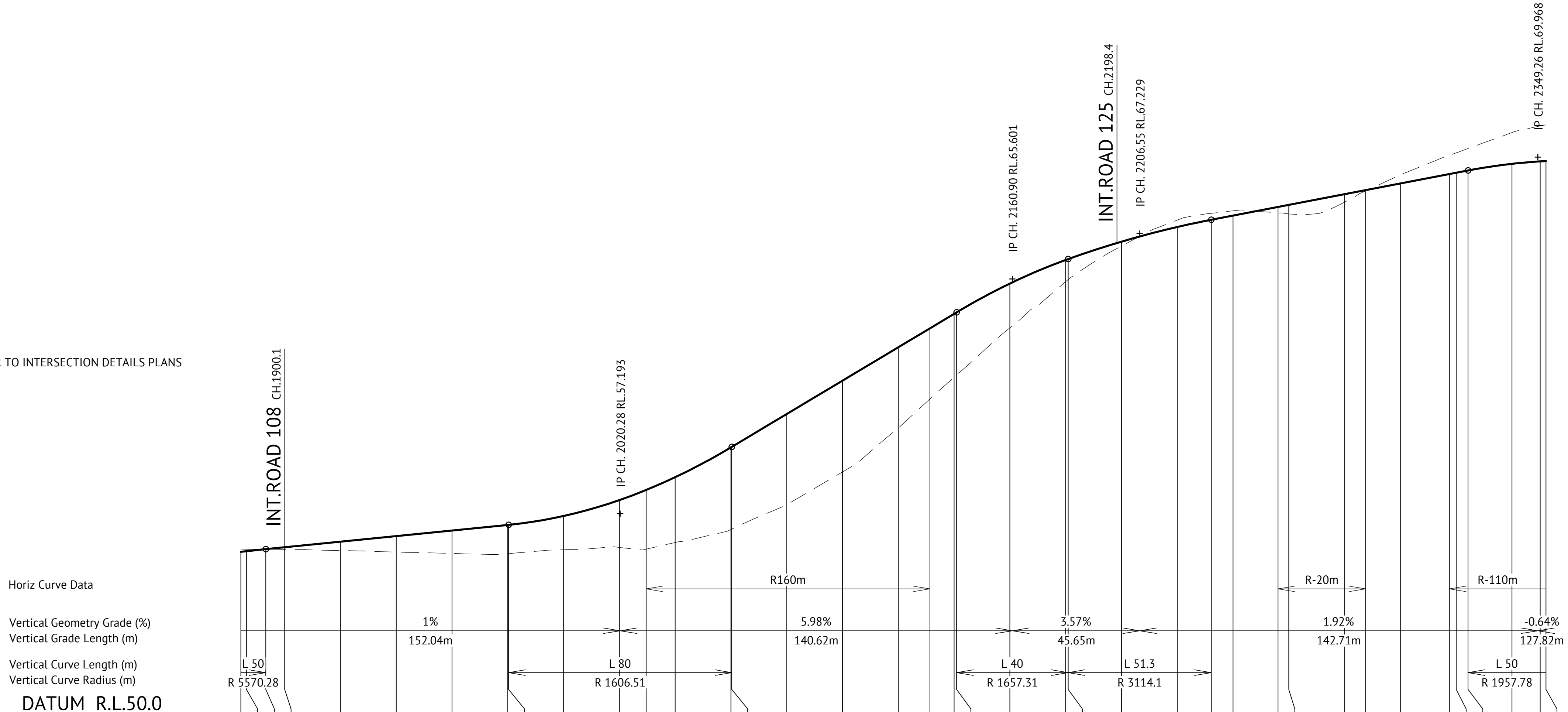
JOB CODE MIR-1002
SHEET NUMBER C300
REV B

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	ROAD 73 (CH.1884.31-CH.2350.11)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40×10^{6}
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	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



DATUM R.L.50.0

CHAINAGE	1884.31	1886.31	1893.24	1900.00	1920.00	1940.00	1960.00	1980.00	1980.28	2000.00	2020.00	2029.60	2040.00
CUT (-)/FILL DEPTH	-0.068	-0.053	0.002	0.075	0.316	0.570	0.817	1.026	1.027	1.208	1.698	2.121	2.337
LHS LIP LEVEL	55.720	55.743	55.817	55.884	56.074	56.247	56.476	56.684	56.687	57.005	57.538	57.900	58.357
RHS LIP LEVEL	55.725	55.748	55.821	55.889	56.047	56.247	56.447	56.647	56.650	56.968	57.538	57.900	58.357
DESIGN SURFACE	55.826	55.849	55.922	55.990	56.190	56.390	56.590	56.790	56.793	57.111	57.681	58.043	58.500
NATURAL SURFACE	55.894	55.902	55.920	55.915	55.874	55.820	55.773	55.764	55.766	55.903	55.983	55.922	56.163

CHAINAGE	2060.00	2060.28	2080.00	2100.00	2120.00	2131.32	2140.00	2140.90	2160.00	2180.00	2180.90	2200.00	2220.00
CUT (-)/FILL DEPTH	2.939	2.942	3.248	3.271	2.891	2.528	2.271	2.246	1.585	0.780	0.735	0.157	-0.247
LHS LIP LEVEL	59.425	59.442	60.620	61.854	63.050	63.712	64.208	64.262	65.294	66.143	66.183	66.831	67.358
RHS LIP LEVEL	59.425	59.442	60.620	61.854	63.021	63.689	64.208	64.262	65.294	66.139	66.171	66.794	67.358
DESIGN SURFACE	59.568	59.585	60.764	61.960	63.156	63.832	64.352	64.405	65.437	66.282	66.315	66.937	67.463
NATURAL SURFACE	56.629	56.643	57.515	58.689	60.265	61.304	62.080	62.159	63.852	65.503	65.580	66.780	67.710

CHAINAGE	2232.20	2240.00	2256.13	2260.00	2280.00	2287.54	2300.00	2317.55	2320.00	2324.26	2340.00	2350.11	2352.19
CUT (-)/FILL DEPTH	-0.232	-0.171	0.214	0.323	0.283	0.026	-0.310	-0.673	-0.712	-0.788	-1.119	-1.270	-1.298
LHS LIP LEVEL	67.610	67.728	68.037	68.112	68.495	68.640	68.879	69.216	69.263	69.345	69.621	69.708	69.719
RHS LIP LEVEL	67.616	67.767	68.079	68.139	68.500	68.645	68.884	69.220	69.267	69.349	69.588	69.675	69.686
DESIGN SURFACE	67.721	67.871	68.181	68.255	68.639	68.783	69.022	69.359	69.406	69.488	69.727	69.813	69.825
NATURAL SURFACE	67.954	68.042	67.966	67.932	68.355	68.758	69.332	70.033	70.119	70.276	70.846	71.083	71.123

ROAD 73 LONGITUDINAL SECTION

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

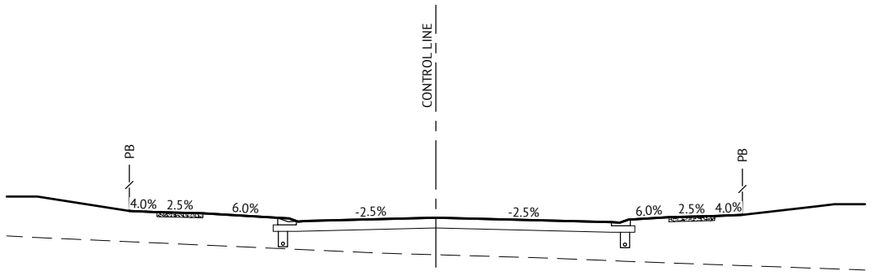
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: KLYNT KIWANG
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

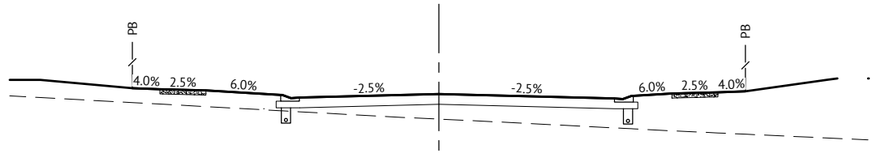
SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT: **MIRVAC QLD PTY LTD**
PROJECT: **EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT**
LOCATION: **TEVIOT ROAD, GREENBANK**
SHEET TITLE: **ROAD 73 LONG SECTION**

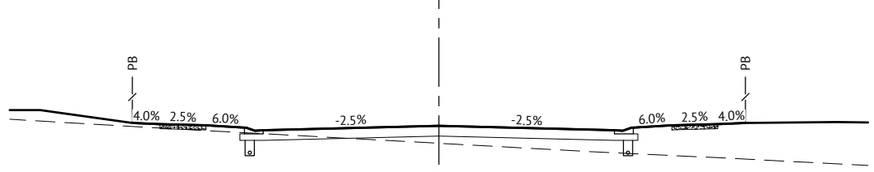
JOB CODE: MIR-1002
SHEET NUMBER: C310
REV: B



CHAINAGE 2000 — DATUM R.L. 52.00



CHAINAGE 1960 — DATUM R.L. 52.00



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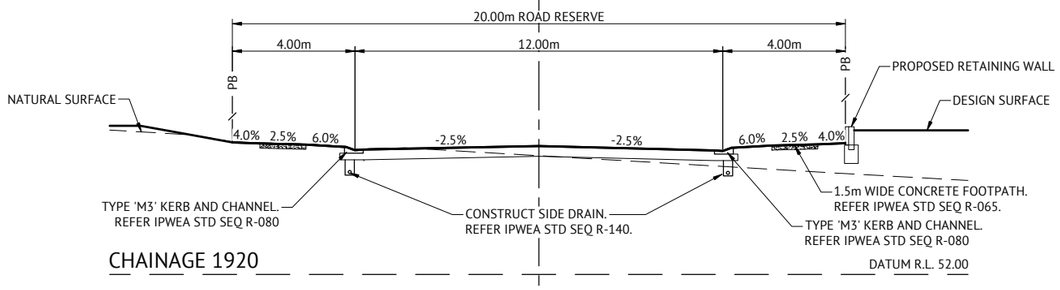
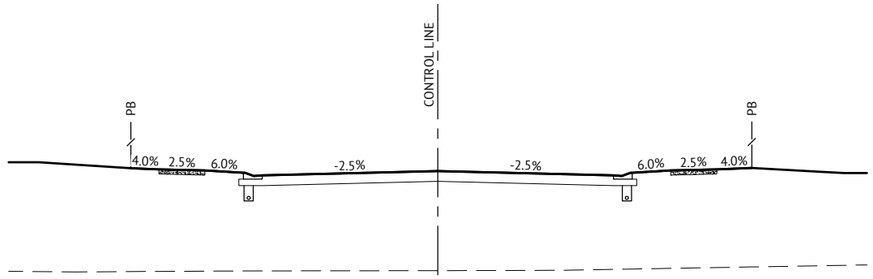
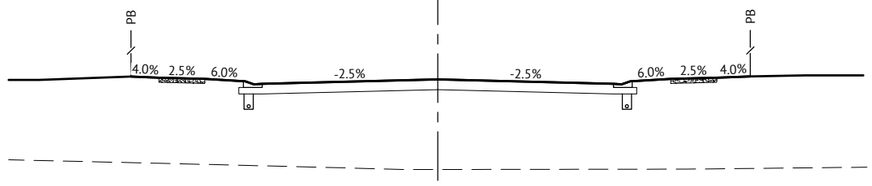


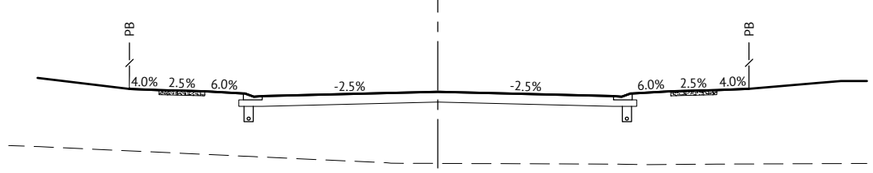
CHAINAGE 1920 — DATUM R.L. 52.00



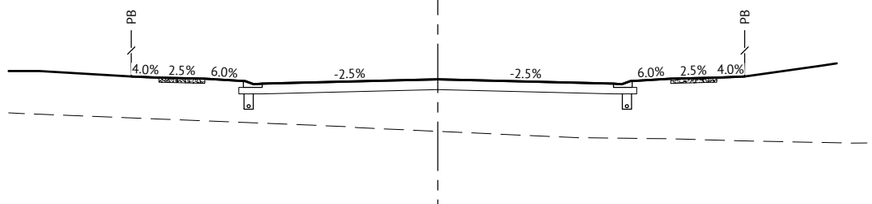
CHAINAGE 2080 — DATUM R.L. 54.00



CHAINAGE 2060 — DATUM R.L. 53.00



CHAINAGE 2040 — DATUM R.L. 53.00



CHAINAGE 2020 — DATUM R.L. 52.00

ROAD 73 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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BRISBANE, QLD 4000
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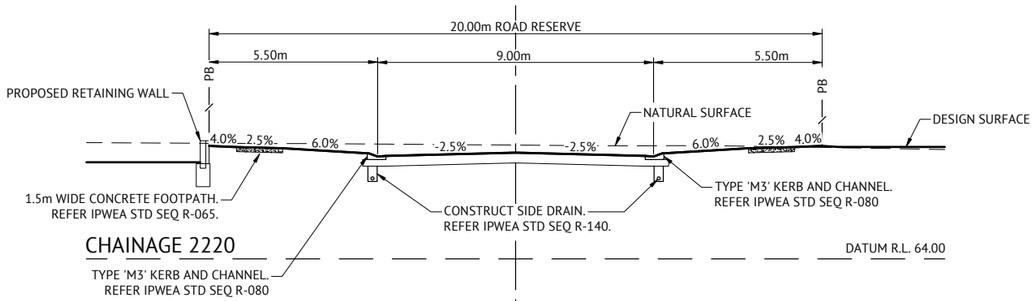
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
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 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROAD 73 CROSS SECTIONS - SHEET 1

JOB CODE: MIR-1002
SHEET NUMBER: C311
REV: B



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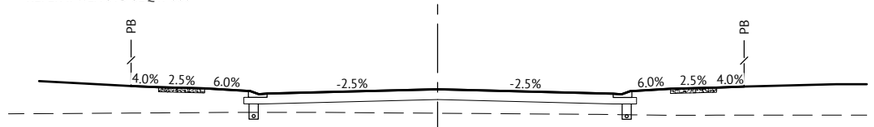

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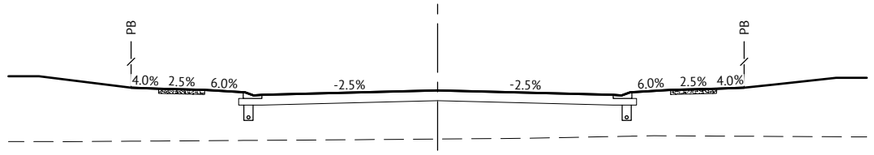
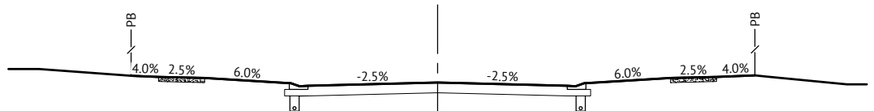


CHAINAGE 2160 — DATUM R.L. 60.00

CHAINAGE 2140 — DATUM R.L. 60.00



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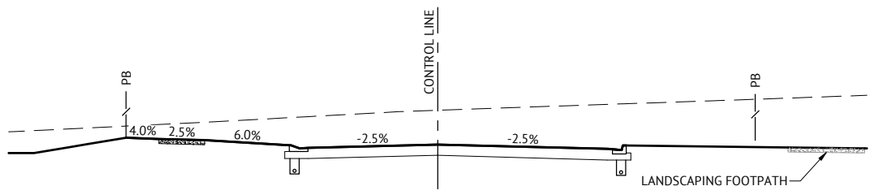

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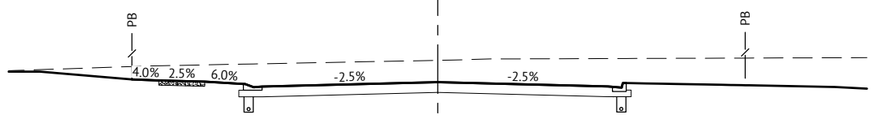
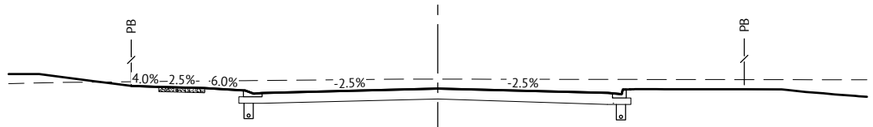


CHAINAGE 2320 — DATUM R.L. 66.00



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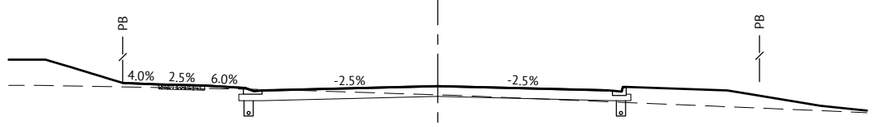

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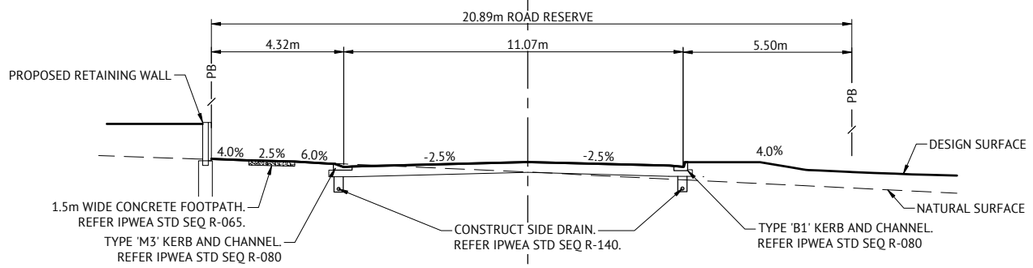


CHAINAGE 2260 — DATUM R.L. 64.00

ROAD 73 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
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 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROAD 73 CROSS SECTIONS - SHEET 2

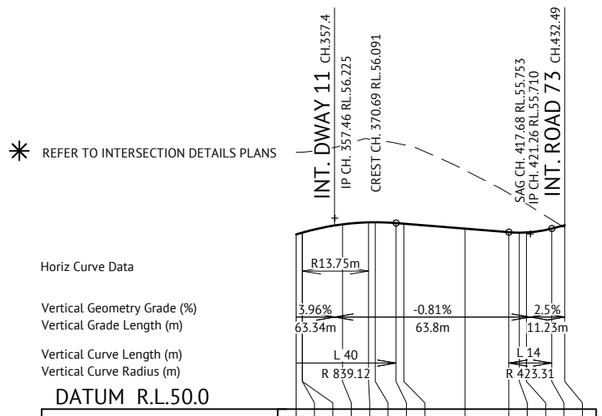
JOB CODE: MIR-1002
SHEET NUMBER: C312
REV: B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 108 (CH.344.85-CH.428.26)
CLASS	-	NEIGHBOURHOOD CONNECTOR 1
ESA's	-	6.40 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	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.

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 108 (CH.428.26-CH.432.49)
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	100mm
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.

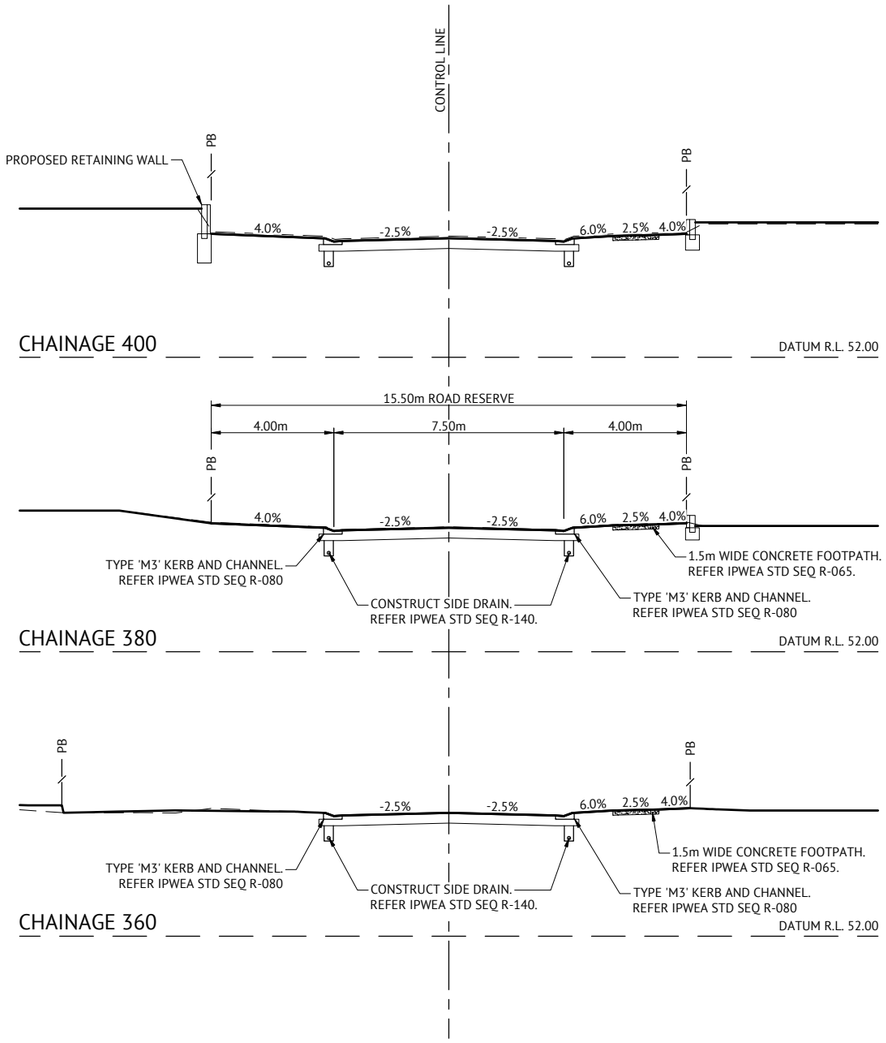


DATUM R.L.50.0

CHAINAGE	344.85	346.89	346.89	360.00	368.49	370.69	377.46	380.00	400.00	414.26	417.68	420.00	428.26	432.49
CUT (-)/FILL DEPTH	-2.674	-2.625	-2.625	-2.577	-2.717	-2.684	-2.608	-2.573	-1.904	-1.266	-1.077	-0.934	-0.290	0.076
LHS LIP LEVEL	55.600	*	55.666	55.936	56.001	56.004	55.976	55.956	55.795	55.679	55.666	*		
RHS LIP LEVEL	55.600	55.666	55.666	55.936	56.001	56.004	55.976	55.956	55.795	55.679	55.666	*		
DESIGN SURFACE	55.693	55.753	55.753	56.023	56.088	56.091	56.063	56.043	55.882	55.766	55.753	55.759	55.885	55.991
NATURAL SURFACE	58.367	58.378	58.378	58.600	58.805	58.774	58.672	58.616	57.786	57.032	56.830	56.693	56.175	55.915

ROAD 108 LONGITUDINAL SECTION

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



ROAD 108 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROAD 108 LONG AND CROSS SECTIONS

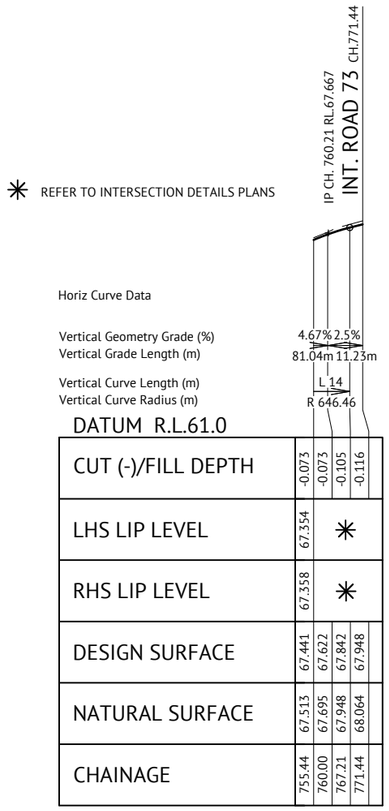
JOB CODE MIR-1002
SHEET NUMBER C313
REV B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 115 (CH.755.44-CH.767.21)
CLASS	-	ACCESS STREET (PARK)
ESA's	-	5.90 x 10^6
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	100mm
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.

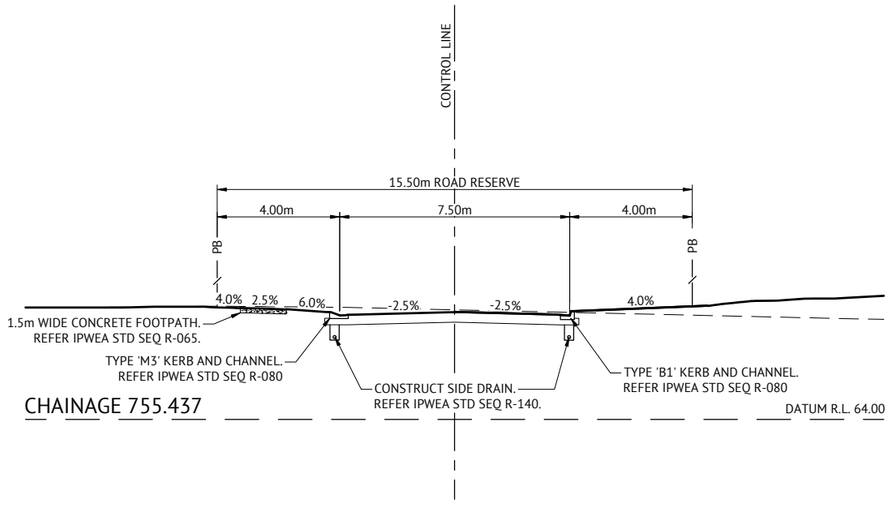
PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 115 (CH.767.21-CH.771.44)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

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.



ROAD 115 LONGITUDINAL SECTION

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



ROAD 115 CROSS SECTION

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m
0 2 4 6m
VERTICAL 1:100 (A1) 0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROAD 115 LONG AND CROSS SECTIONS

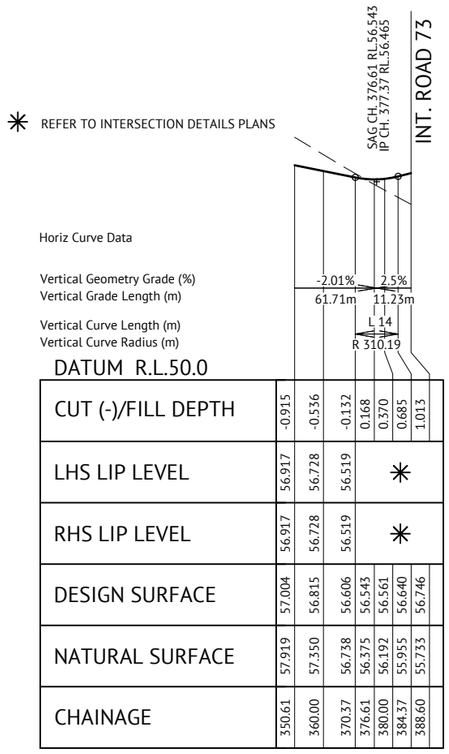
JOB CODE MIR-1002
SHEET NUMBER C314
REV B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 123 (CH.350.61-CH.384.37)
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
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.

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 123 (CH.384.37-CH388.60)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

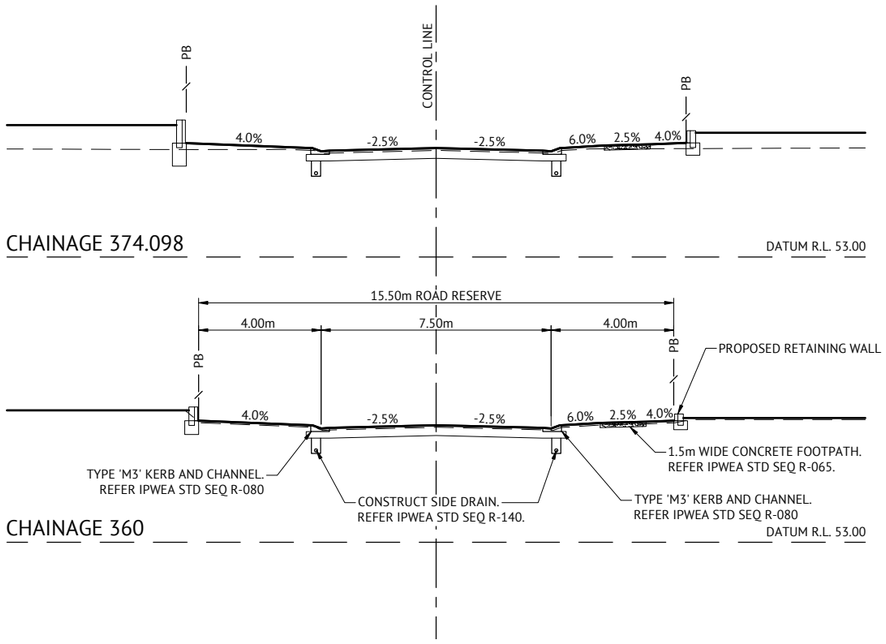
CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.



CUT (-)/FILL DEPTH	-0.915	-0.536	-0.132	0.168	0.370	0.685	1.013	
LHS LIP LEVEL	56.917	56.728	56.519	✳				
RHS LIP LEVEL	56.917	56.728	56.519	✳				
DESIGN SURFACE	57.004	56.815	56.606	56.543	56.561	56.640	56.746	
NATURAL SURFACE	57.919	57.350	56.738	56.375	56.192	55.955	55.733	
CHAINAGE	350.61	360.00	370.37	376.61	380.00	384.37	388.60	

ROAD 123 LONGITUDINAL SECTION

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



ROAD 123 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
0 2 4 6m
VERTICAL 1:100 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROAD 123 LONG AND CROSS SECTIONS

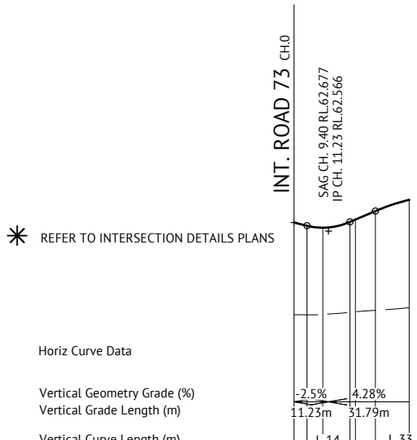
JOB CODE MIR-1002
SHEET NUMBER C315
REV B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 124 (CH.0.00-CH.4.23)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	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.

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 124 (CH.4.23-CH.37.61)
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
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.

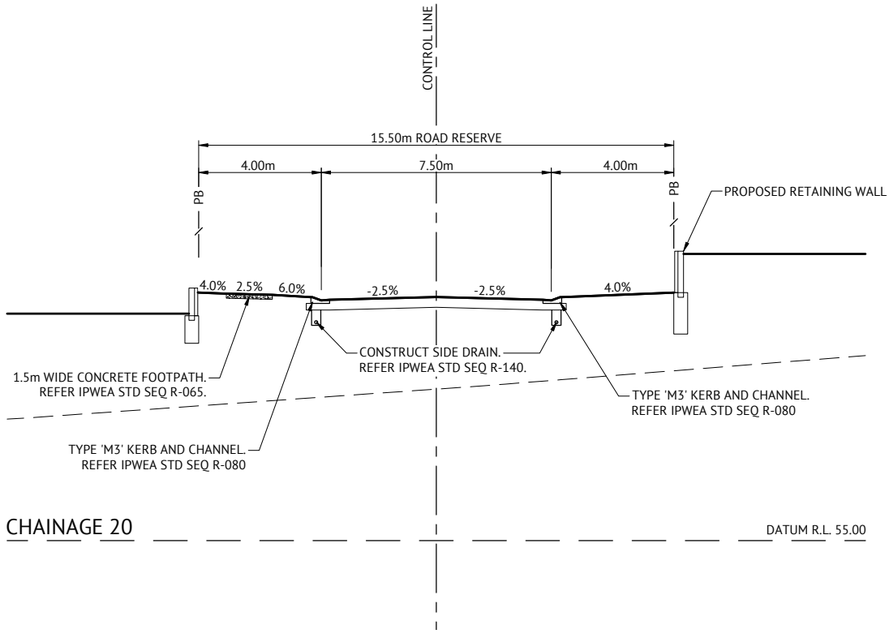


DATUM R.L.54.0

CHAINAGE	-0.00	4.23	9.40	18.23	20.00	26.52	37.61
CUT (-)/FILL DEPTH	2.905	2.824	2.945	3.002	3.237	3.518	
LHS LIP LEVEL	*		62.779	62.854	63.133	63.517	
RHS LIP LEVEL	*		62.779	62.854	63.133	63.517	
DESIGN SURFACE	62.847	62.741	62.677	62.866	62.941	63.220	63.585
NATURAL SURFACE		59.837	59.853	59.921	59.940	59.984	60.068

ROAD 124 LONGITUDINAL SECTION

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



ROAD 124 CROSS SECTION

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
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WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROAD 124 LONG AND CROSS SECTIONS

JOB CODE MIR-1002
SHEET NUMBER C316
REV B

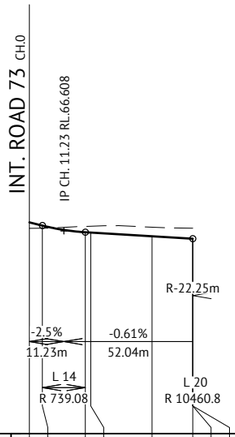
PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 125 (CH.0.00-CH.4.23)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

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.

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 125 (CH.4.23-CH.53.30)
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10^5
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)

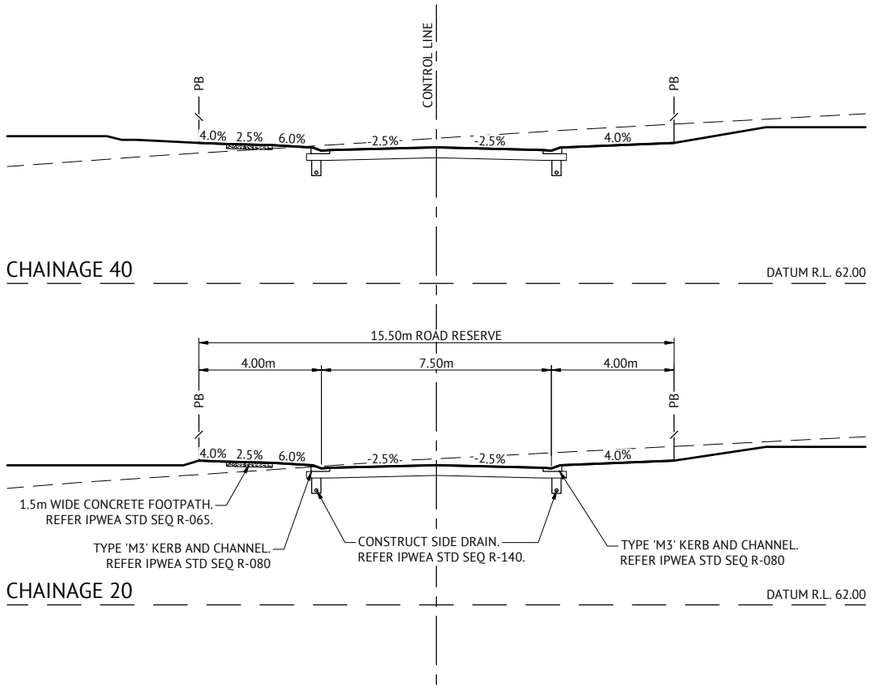
Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.60.0

CHAINAGE	0.00	4.23	18.23	20.00	40.00	53.27	53.30	53.30
NATURAL SURFACE	66.693	66.696	66.756	66.762	66.731	66.698	66.698	66.698
DESIGN SURFACE	66.889	66.783	66.566	66.555	66.434	66.353	66.353	66.353
RHS LIP LEVEL	✳		66.479	66.468	66.347	66.266	66.266	66.266
LHS LIP LEVEL	✳		66.479	66.468	66.347	66.266	66.266	66.266
CUT (-)/FILL DEPTH	0.196	0.087	-0.190	-0.207	-0.297	-0.344	-0.344	-0.344

ROAD 125 LONGITUDINAL SECTION

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



ROAD 125 CROSS SECTION

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

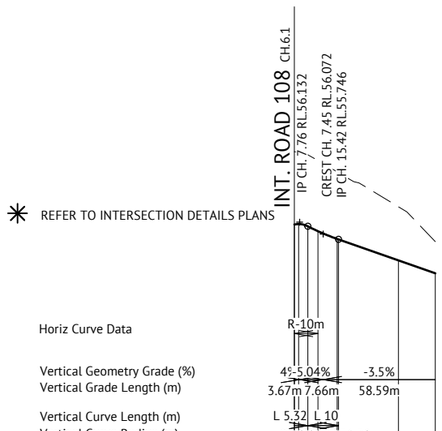
SCALE
HORIZONTAL 1:1000 (A1) 0 20 40 60m / 0 2 4 6m
VERTICAL 1:100 (A1) 0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROAD 125 LONG AND CROSS SECTIONS

JOB CODE MIR-1002
SHEET NUMBER C317
REV B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	DRIVEWAY 11
CLASS	-	REAR ACCESS DRIVEWAY
ESA's	-	1.1×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	100mm
TOTAL BOX	-	285mm

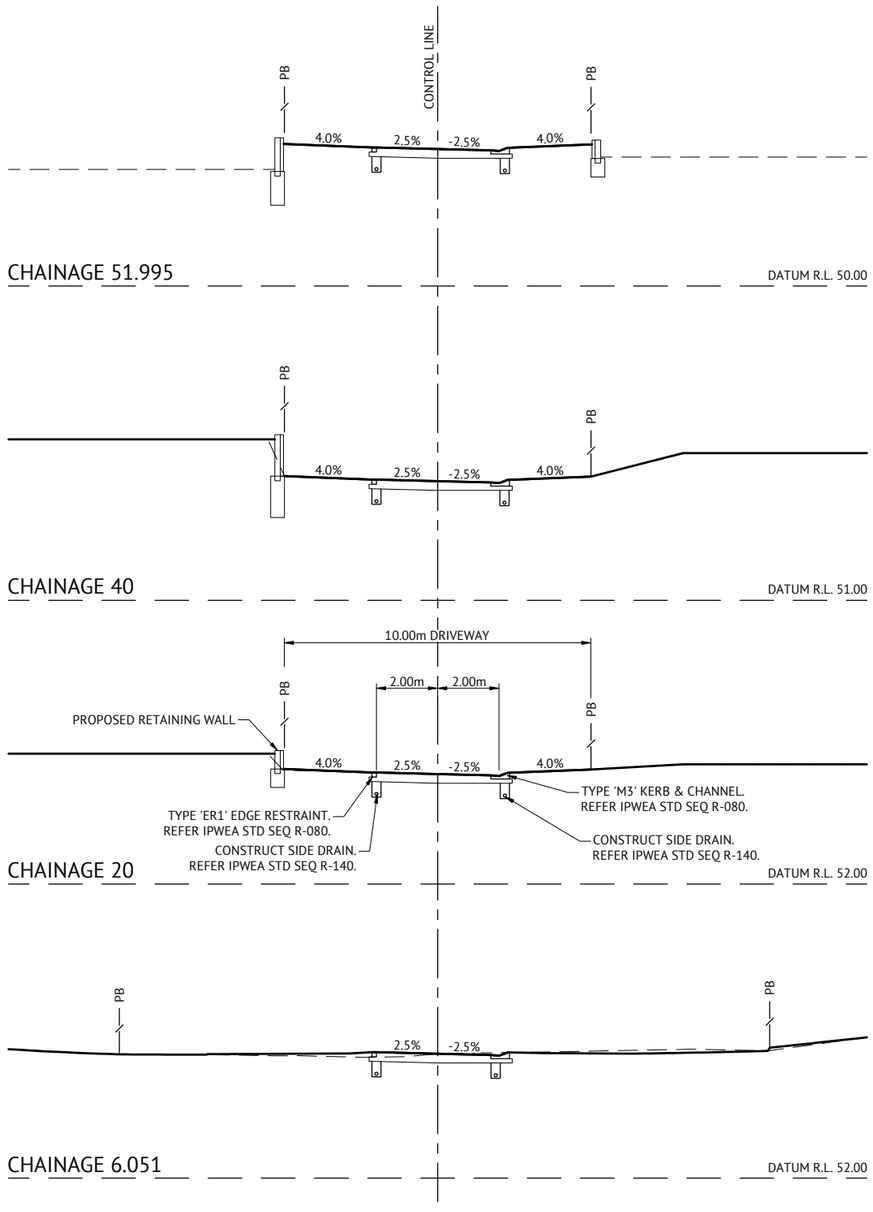
CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION. ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING.



CUT (-)/FILL DEPTH	-2.377	-2.377	-2.335	-2.332	-2.301	-2.185	-2.176	-1.749	-1.034				
LHS LIP LEVEL	✳		56.122	56.048	55.890	55.636	55.621	54.936	54.516				
RHS LIP LEVEL	✳		56.029	55.954	55.797	55.542	55.528	54.842	54.422				
DESIGN SURFACE	56.056	56.056	56.072	55.998	55.840	55.586	55.571	54.886	54.466				
NATURAL SURFACE	58.433	58.433	58.407	58.330	58.141	57.771	57.747	56.634	55.499				
CHAINAGE	6.05	6.05	7.45	10.42	13.72	20.00	20.42	40.00	51.99				

DWAY 11 LONGITUDINAL SECTION

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



DWAY 11 CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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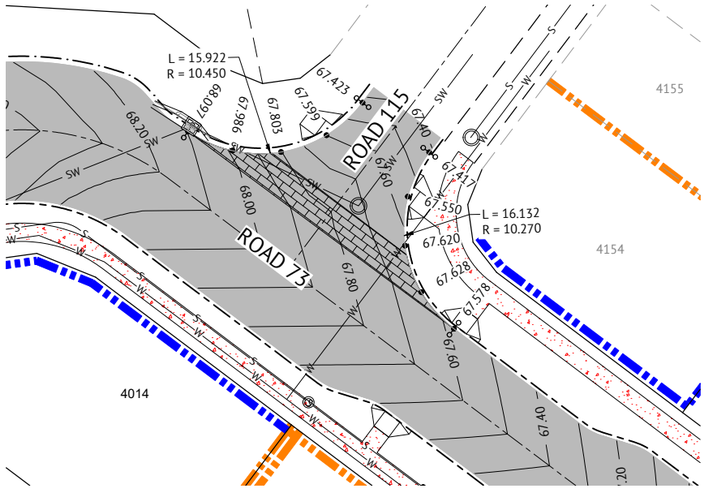
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
0 2 4 6m
VERTICAL 1:100 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

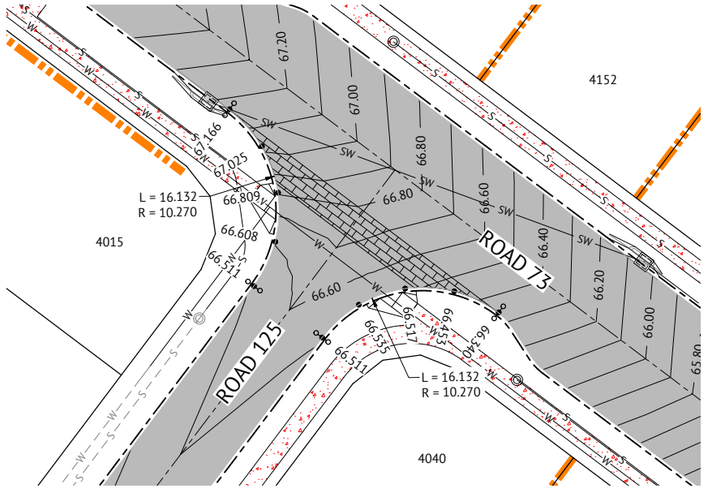
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRIVEWAY 11 LONG AND CROSS SECTIONS

JOB CODE MIR-1002
SHEET NUMBER C318
REV B



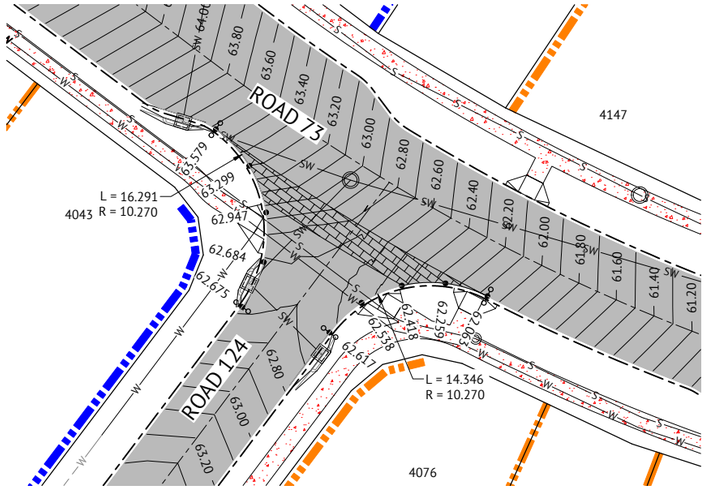
INTERSECTION ROAD 73 AND ROAD 115

SCALE 1:250



INTERSECTION ROAD 73 AND ROAD 125

SCALE 1:250



INTERSECTION ROAD 73 AND ROAD 124

SCALE 1:250

LEGEND - PROPOSED

- PAVEMENT
- 58.0 — FINISHED MAJOR CONTOURS (0.20m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- 61.748 • LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- SW — PROPOSED STORMWATER
- S — PROPOSED SEWER
- W — PROPOSED WATER
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.

LEGEND - CONSTRUCTED

- SW — EXISTING STORMWATER
- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICAL
- T — EXISTING TELSTRA
- G — EXISTING GAS

NOTE

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

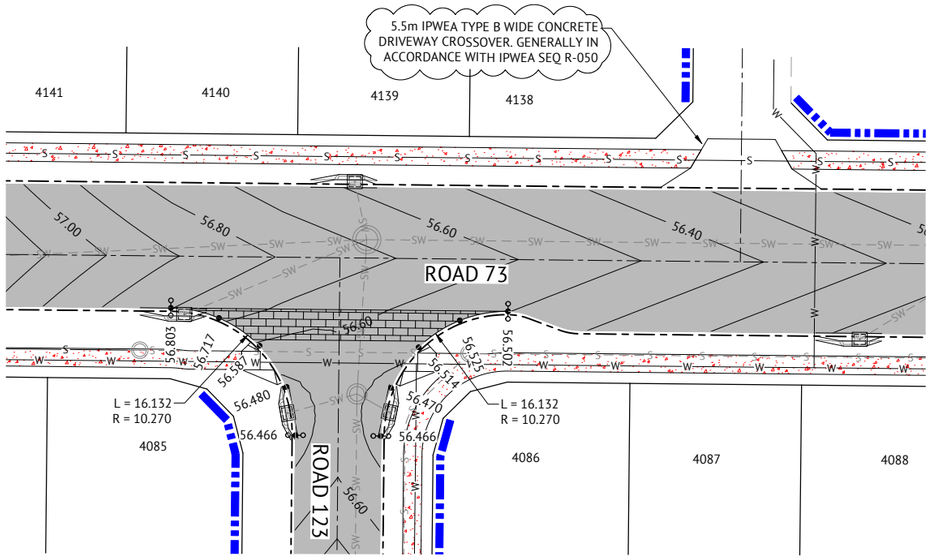
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: KLYNT KIWANG
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE: 0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

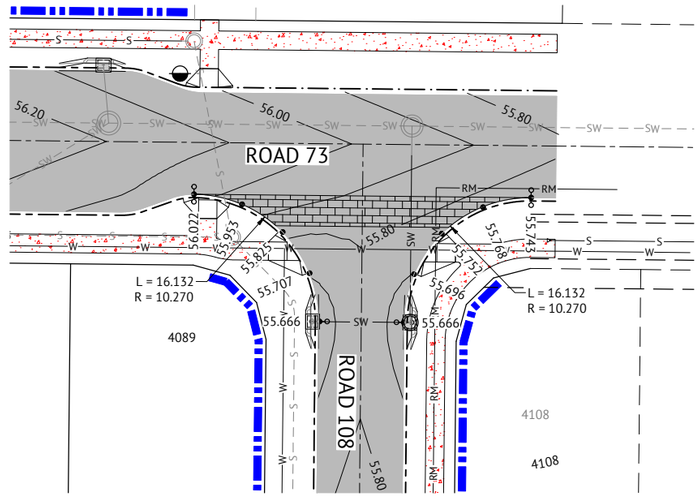
CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: INTERSECTION DETAILS LAYOUT - SHEET 1

JOB CODE: MIR-1002
SHEET NUMBER: C320
REV: B



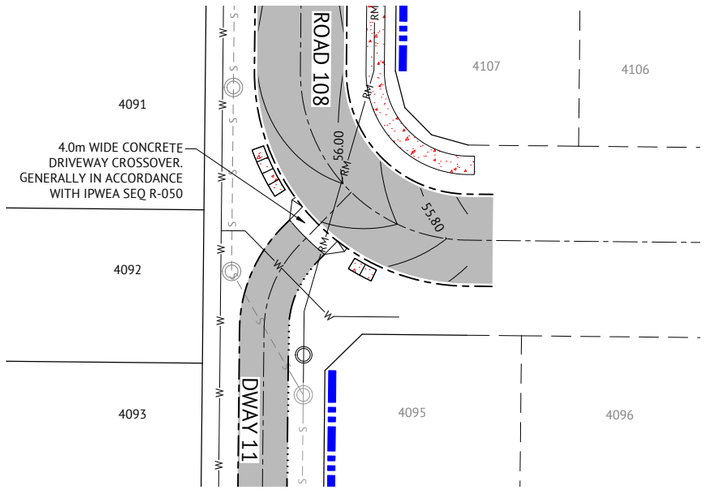
INTERSECTION ROAD 73 AND ROAD 123

SCALE 1:250



INTERSECTION ROAD 73 AND ROAD 108

SCALE 1:250



INTERSECTION ROAD 108 AND DWAY 11

SCALE 1:250

LEGEND - PROPOSED

- PAVEMENT
- 58.0 — FINISHED MAJOR CONTOURS (0.20m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- 61.748 • LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- SW — PROPOSED STORMWATER
- W — PROPOSED WATER
- S — PROPOSED SEWER
- RM — SEWER RISING MAIN
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.

LEGEND - CONSTRUCTED

- SW — EXISTING STORMWATER
- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICAL
- T — EXISTING TELSTRA
- G — EXISTING GAS

NOTE

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED DRIVEWAY WIDTH	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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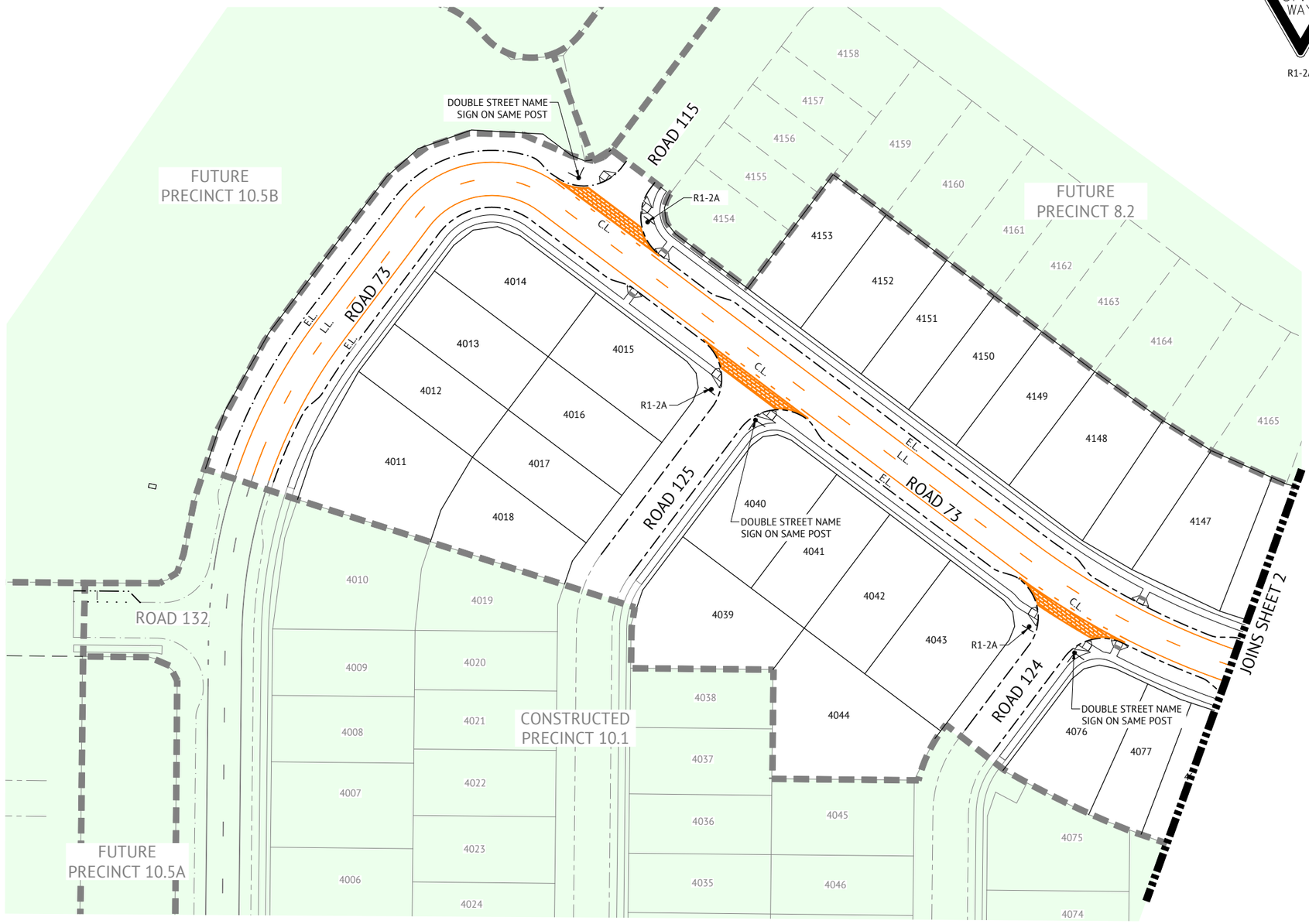
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE INTERSECTION DETAILS LAYOUT - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C321
REV B



PAVEMENT MARKINGS AND SIGNAGE LAYOUT

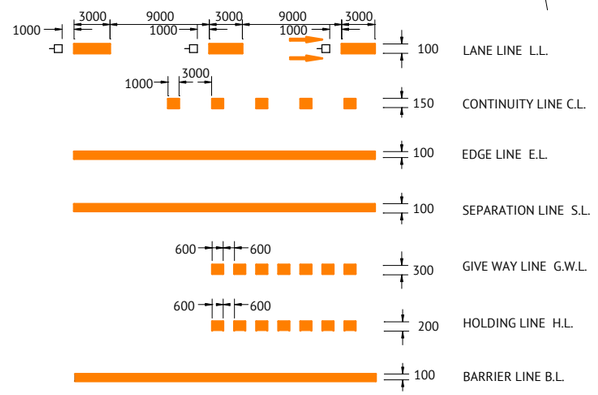
SCALE 1:500

REQUIRED SIGNS

R1-2A

TYPICAL LINEMARKING LEGEND

N.T.S.



DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.

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

LINEMARKING NOTES

1. 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.
2. ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
3. EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
4. ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
5. ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
6. EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
7. 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.
8. GENERALLY THE NORMAL SPACING BETWEEN RRPM's IS TO BE 12.0m U.N.O.
9. ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
10. NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
11. ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

SIGNAGE NOTES

1. 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.
2. SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
3. SIGNAGE SHALL BE IN ACCORDANCE WITH:
   - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
   - AS1743 ROAD SIGNS SPECIFICATION
   - AS4049.1 PAVEMENT MARKING MATERIALS
4. STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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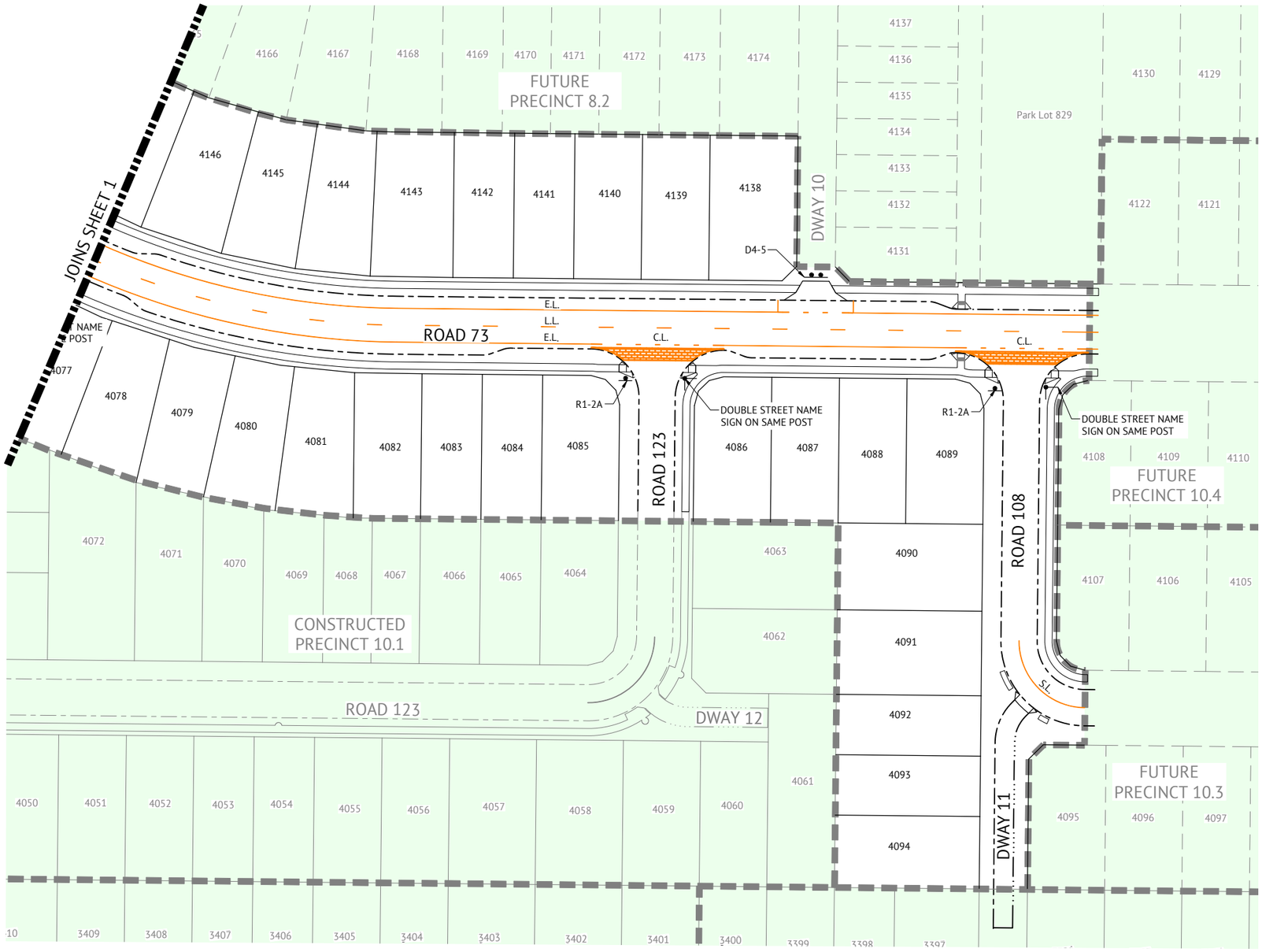
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

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

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 1

JOB CODE MIR-1002
SHEET NUMBER C330
REV B

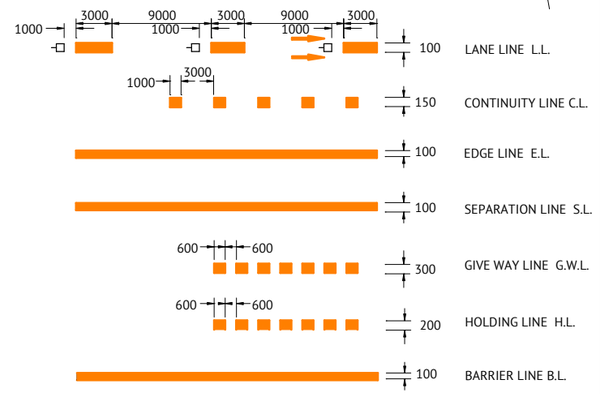


PAVEMENT MARKINGS AND SIGNAGE LAYOUT

SCALE 1:500

TYPICAL LINEMARKING LEGEND

N.T.S.



DURATHEM THRESHOLD TREATEMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.

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

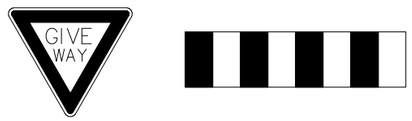
LINEMARKING NOTES

1. 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.
2. ALL INTERNAL LINE MARKING TO CONSIST OF LINES 100mm WIDE WITH 2 COATS OF PAINT TO MANUFACTURERS SPECIFICATIONS.
3. EXTENT OF LINEMARKING SHALL BE VERIFIED ON SITE PRIOR TO INSTALLATION.
4. ALL PAINTED MARKINGS SHALL BE APPROVED REFLECTORISED U.N.O.
5. ANY EXISTING LINE MARKINGS DAMAGED BY THE PROPOSED WORKS ARE TO BE REINSTATED.
6. EXISTING CONFLICTING LINE MARKINGS ARE TO BE GROUND OFF BY METHODS APPROVED BY THE DISTRICT ENGINEER.
7. 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.
8. GENERALLY THE NORMAL SPACING BETWEEN RRPM's IS TO BE 12.0m U.N.O.
9. ANY EXISTING LINEMARKING NOT SHOWN ON THIS PLAN WHICH CONFLICTS OR IS INCOMPATIBLE WITH THE PROPOSED LINEMARKING SHALL BE REMOVED BY THE CONTRACTOR.
10. NOSE OF ISLANDS TO BE PAINTED WHITE WITH GLASS BEADS.
11. ALL STREET LIGHTING IN ACCORDANCE WITH AS1158.

SIGNAGE NOTES

1. 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.
2. SIGNS SHOULD BE ORIENTATED AT APPROXIMATELY RIGHT ANGLES TO, AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE.
3. SIGNAGE SHALL BE IN ACCORDANCE WITH:
   - AS1742 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
   - AS1743 ROAD SIGNS SPECIFICATION
   - AS4049.1 PAVEMENT MARKING MATERIALS
4. STREET NAME SIGNS ARE TO BE INSTALLED WITH THE RELEVANT HOUSE NUMBERS IN ACCORDANCE WITH THE RELEVANT LOCAL COUNCIL STANDARD DRAWINGS.

REQUIRED SIGNS



R1-2A

D4-5

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

BRISBANE OFFICE
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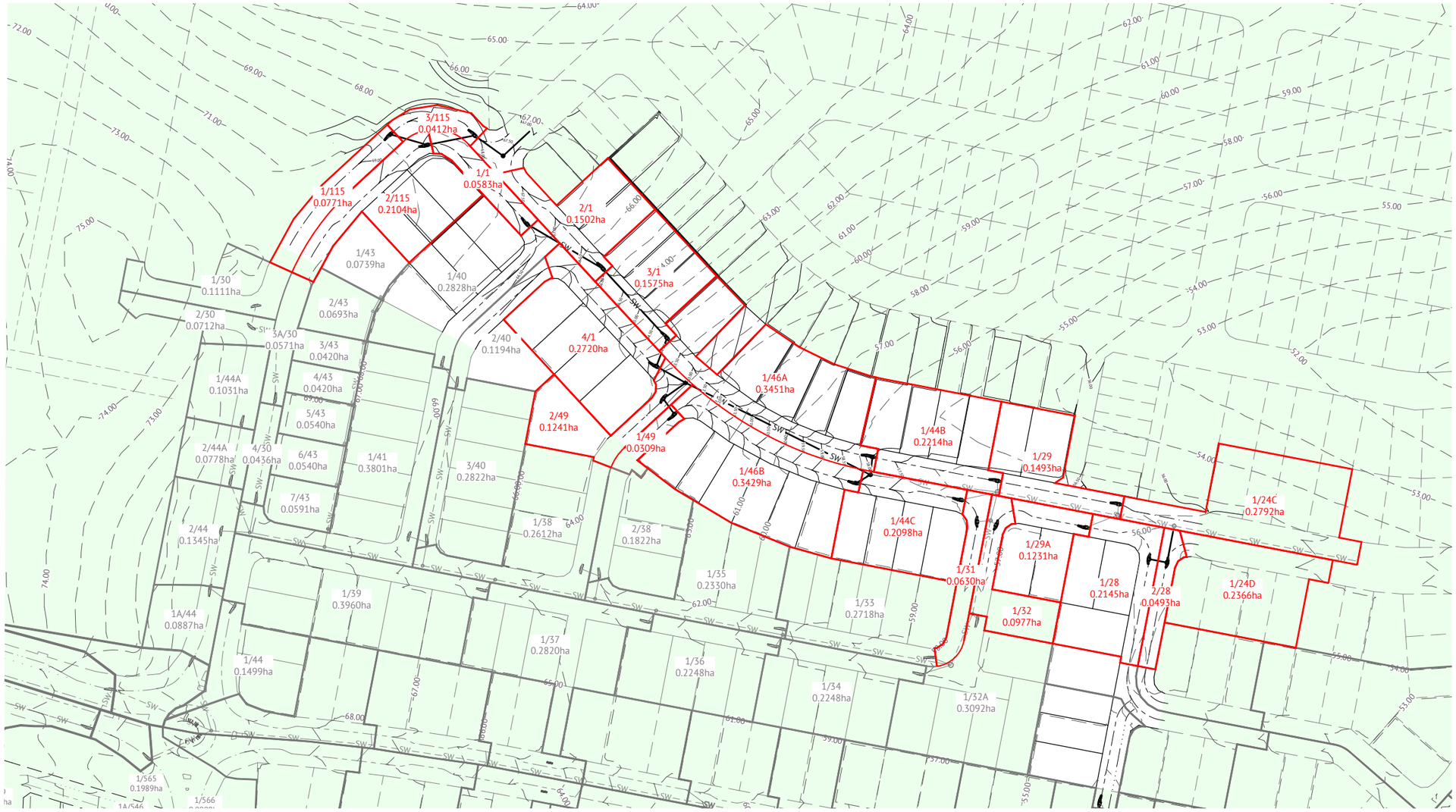
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR 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 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C331
REV B



LEGEND

———	STORMWATER CATCHMENT BOUNDARY
1/A 0.2311ha	STORMWATER CATCHMENT NUMBER AND AREA
——— SW ———	PROPOSED STORMWATER LINE
— — —SW— — —SW—	CONSTRUCTED STORMWATER LINE
———12.0———	FINISHED CONTOURS (0.50m)
— — 12.0 — —	EXISTING CONTOURS (1.00m)

FOR CONSTRUCTION

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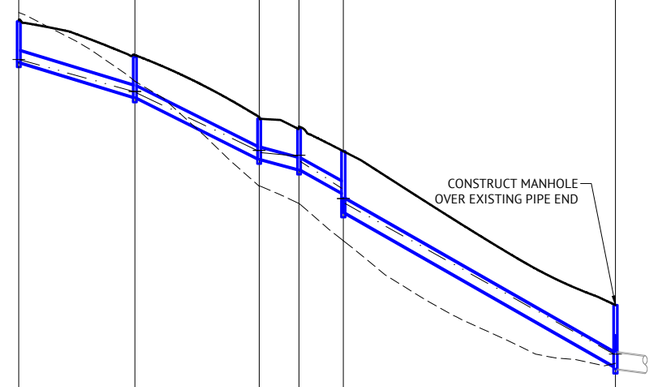
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER CATCHMENT LAYOUT PLAN

JOB CODE MIR-1002
SHEET NUMBER C400
REV B



STRUCTURE NAME	1/1	2/1	3/1	4/1	5/1	6/1	1/28	2/28	TE1/28	1/29	8/1	1/29A	8/1	1/31	14/30	1/32	14/30	1/44B	7/1	1/44C	7/1	1/46A	6/1
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel ON 1050mm DIA MANHOLE	EXISTING PIPE END	IPWEA KERB INLET L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1800mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	EXISTING IPWEA MANHOLE 1800mm DIA	IPWEA KERB INLET L.I.L; 3.6m Lintel	IPWEA MANHOLE 1050mm DIA
							SEWER RISING MAIN 180mm IL 52.912	SEWER RISING MAIN 180mm IL 52.828															
										CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT KERB INLET OVER EXISTING PIPE END		CONSTRUCT MANHOLE OVER EXISTING PIPE END	
PIPE SIZE (mm)		375		375	375	450		375	375		375		375		375		375		375		375		375
PIPE CLASS		2		2	2	2		2	2		2		2		2		2		2		2		2
PIPE GRADE (%)		2.98%		4.90%	2.51%	5.21%	5.64%		1.00%	1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.20%
PIPE SLOPE (1 in X)		33.6		20.4	39.8	19.2	17.7		100.0	100.0		100.0		100.0		100.0		100.0		100.0		100.0		83.3
FULL PIPE VELOCITY (m/s)		0.14		0.45	0.77	1.26	1.16		0.46	0.56		0.36		0.26		0.33		0.34		0.56		0.52		0.64
PART FULL VELOCITY (m/s)		1.43		2.41	2.21	3.29	3.62		1.37	1.45		1.28		1.17		1.25		1.26		1.45		1.42		1.61
PIPE FLOW (cumecs)		0.015		0.049	0.085	0.139	0.184		0.050	0.062		0.039		0.029		0.036		0.038		0.062		0.058		0.071
PIPE CAPACITY AT GRADE (cumecs)		0.303		0.388	0.278	0.401	0.677		0.175	0.175		0.175		0.175		0.175		0.175		0.175		0.175		0.192
DATUM RL	45.0								38.0			38.0		38.0		39.0		39.0		39.0		39.0		40.0
WSE IN STRUCTURE	65.969		64.926		63.002	62.847	61.433	56.362	54.616	54.385	54.206	54.950	54.369	54.850	54.369	55.360	55.317	55.374	55.317	55.610	54.998	55.751	54.998	56.958	56.362
HGL IN PIPE	65.959		64.926	64.884	62.993	62.931	62.816	62.645	61.768	61.275	56.360	56.271	54.513	54.409	54.343	54.206	54.206	54.887	54.817	54.817	54.816	54.649	54.649	55.307	55.317	55.317	55.317	55.317	55.317	55.456	55.381	55.381	55.616	55.428	55.428	56.759	56.630	56.271
DEPTH OF INVERT BELOW FSL	1.338		1.309	1.329	1.298	1.318	1.328	1.348	1.360	2.003	1.995	2.070	1.316	1.395	1.504	1.925	1.925	1.315	1.464	1.464	1.484	1.614	1.614	1.316	1.428	1.428	1.466	1.552	1.552	1.315	1.459	1.459	1.342	1.407	1.407	1.315	1.489	2.070
INVERT LEVEL	65.872		64.743	64.723	62.737	62.717	62.391	62.371	61.616	60.973	55.967	55.894	54.350	54.271	54.162	54.026	54.026	54.745	54.697	54.697	54.694	54.546	54.546	55.145	55.087	55.087	54.993	54.962	54.962	55.276	55.227	55.227	55.441	55.280	55.280	56.566	56.473	55.894
FINISHED (& EXISTING) SURFACE LEVEL	67.210	(67.501)	66.052	(65.257)	64.035	(61.836)	63.719	(61.276)	62.976	(60.056)	57.962	(56.062)	55.666	(56.802)	55.666	(56.822)	55.951	(55.975)	56.060	(55.508)	56.161	(55.784)	56.178	(56.197)	56.161	(55.784)	56.461	(56.406)	56.515	(56.329)	56.459	(56.414)	56.515	(56.329)	56.591	(55.461)	56.686	(55.658)	56.783	(56.049)	56.686	(55.658)	57.881	(55.829)	57.962	55.894
CHAINAGE	0.000	37.877	37.877	40.547	78.424	12.982	91.406	14.482	105.888	88.766	194.654		0.000	7.945	7.945	13.615	21.560	0.000	4.771	4.771	0.000	14.779	14.779	0.000	5.874	5.874	0.000	3.112	3.112	0.000	4.836	4.836	0.000	16.143	16.143	0.000	7.744	7.744
LINE	1								28			29		29A		31		32		44B		44C		46A	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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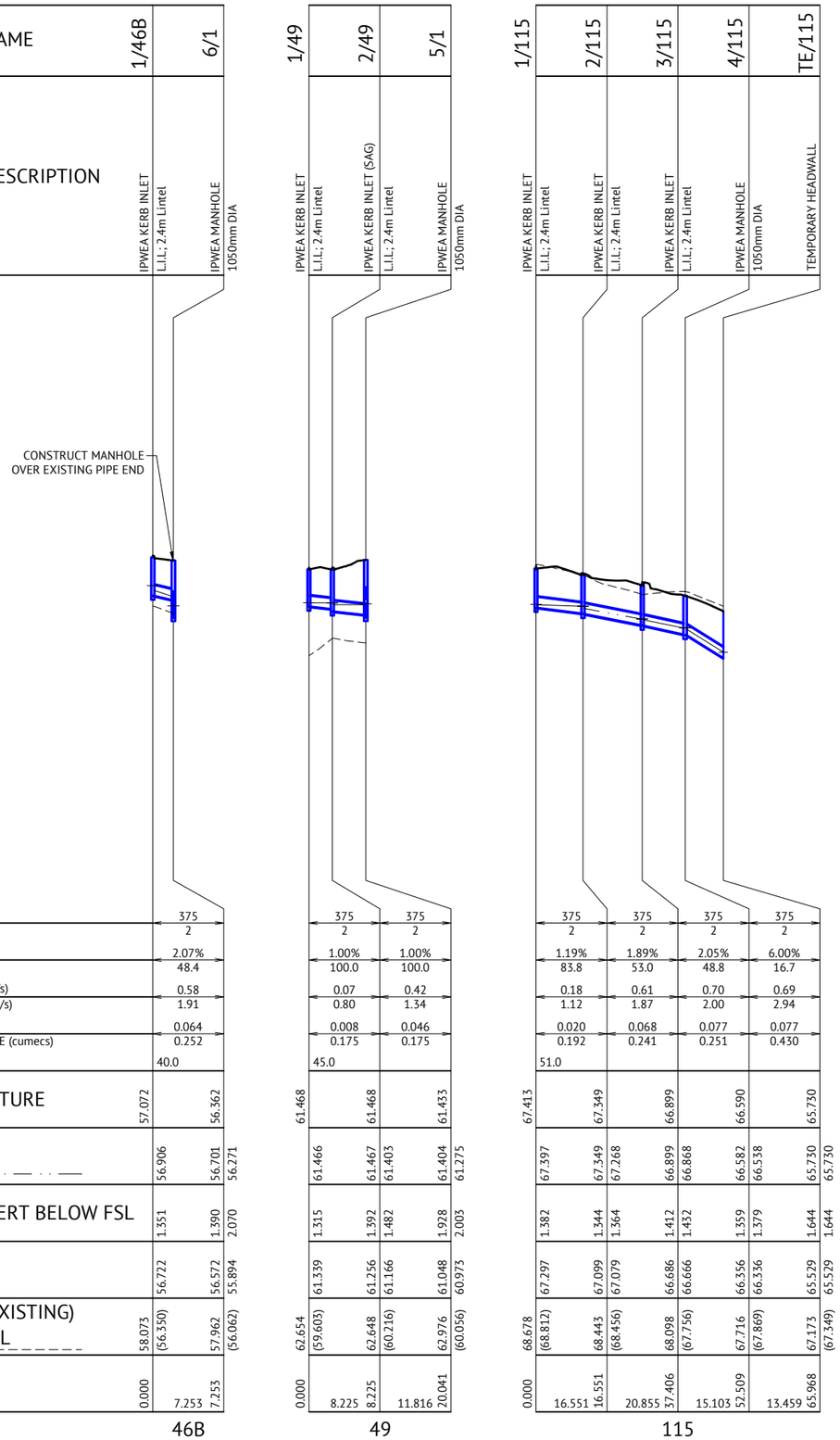
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

JOB CODE MIR-1002
SHEET NUMBER C410
REV B



STRUCTURE NAME	1/46B	6/1	1/49	2/49	5/1	1/115	2/115	3/115	4/115	TE/115
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	TEMPORARY HEADWALL
PIPE SIZE (mm)		375		375	375		375	375	375	375
PIPE CLASS		2		2	2		2	2	2	2
PIPE GRADE (%)		2.07%		1.00%	1.00%		1.19%	1.89%	2.05%	6.00%
PIPE SLOPE (1 in X)		48.4		100.0	100.0		83.8	53.0	48.8	16.7
FULL PIPE VELOCITY (m/s)		0.58		0.07	0.42		0.18	0.61	0.70	0.69
PART FULL VELOCITY (m/s)		1.91		0.80	1.34		1.12	1.87	2.00	2.94
PIPE FLOW (cumecs)		0.064		0.008	0.046		0.020	0.068	0.077	0.077
PIPE CAPACITY AT GRADE (cumecs)		0.252		0.175	0.175		0.192	0.241	0.251	0.430
DATUM RL		40.0		45.0			51.0			
WSE IN STRUCTURE	57.072	56.362	61.468	61.468	61.433	67.413	67.349	66.899	66.590	65.730
HGL IN PIPE	56.906	56.701 56.271	61.466	61.467	61.403 61.404 61.275		67.397	67.349 67.268	66.899 66.868 66.582	66.538 65.730 65.730
DEPTH OF INVERT BELOW FSL	1.351	1.390 2.070	1.315	1.392	1.482 1.928 2.003		1.382	1.344 1.364	1.412 1.432 1.359	1.379 1.644 1.644
INVERT LEVEL	56.722	56.572 55.894	61.339	61.256	61.166 61.048 60.973		67.297	67.099 67.079	66.686 66.666 66.356	66.336 65.529 65.529
FINISHED (& EXISTING) SURFACE LEVEL	58.073 (56.350)	57.962 (56.062)	62.654 (59.603)	62.648 (60.216)	62.976 (60.056)	68.678 (68.812)	68.443 (68.456)	68.098 (67.756)	67.716 (67.869)	67.173 (67.349)
CHAINAGE	0.000	7.253 7.253	0.000	8.225 8.225	11.816 20.041	0.000	16.551 16.551	20.855 37.406	15.103 52.509	13.459 65.968
LINE		46B		49			115			

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PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C411
REV B

STORMWATER DRAINAGE NOTES

1. ALL STORMWATER DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, STORMWATER LAYOUT PLANS, NOTES AND DETAILS.
2. 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.
3. ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
4. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
5. ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR DN150 & DN225, AND CLASS 'SN6' FOR DN100 UNLESS NOTED OTHERWISE.
6. PIPES SHALL BE LAID AT MIN. 1% GRADE UNLESS NOTED OTHERWISE.
7. 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.
8. 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.
9. BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
10. WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
11. 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.
12. ALL STORMWATER PIPES SHALL BE CLASS '2' (UNO) R.C. PIPES UNLESS AN ALTERNATIVE IS APPROVED BY THE SUPERINTENDENT PRIOR TO CONSTRUCTION.
13. ALL TEMPORARY ROOFWATER OUTLETS TO BE EXCAVATED AT 1 IN 200 TO NATURAL SURFACE.
14. ALL ROOFWATER PIPES CROSSING CONCRETE FOOTPATHS ARE TO BE INSTALLED PRIOR TO CONSTRUCTION OF CONCRETE FOOTPATHS.
15. 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).

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:

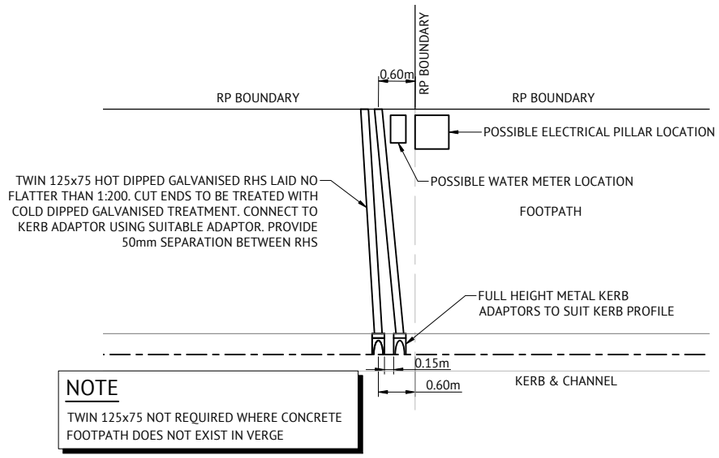
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

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.

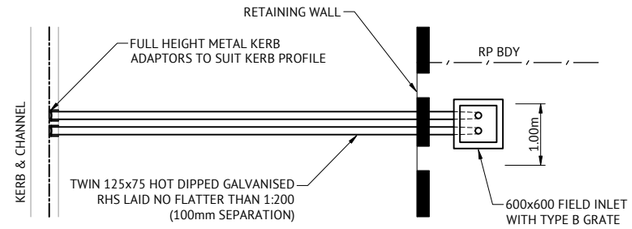
NOTE:

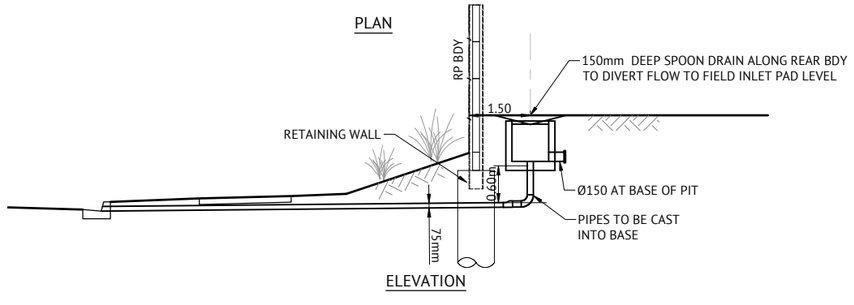
STORMWATER DRAINAGE LONG SECTION CHAINAGE LENGTHS ARE MEASURED FROM NODE CENTRE POINTS ALONG THE PROPOSED ALIGNMENT INCLUDING PIPE OFFSETS SUCH AS TO CENTRE OF PIT SIDE WALL AND CUSTOM PIPE SPACING INTO STRUCTURES. REFER STORMWATER DRAINAGE STRUCTURE DETAILS DRAWINGS.



TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL

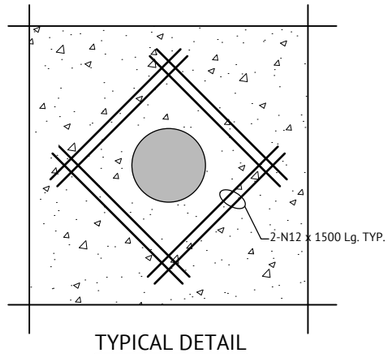
N.T.S.





TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL

N.T.S.



TYPICAL DETAIL

GRATED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION

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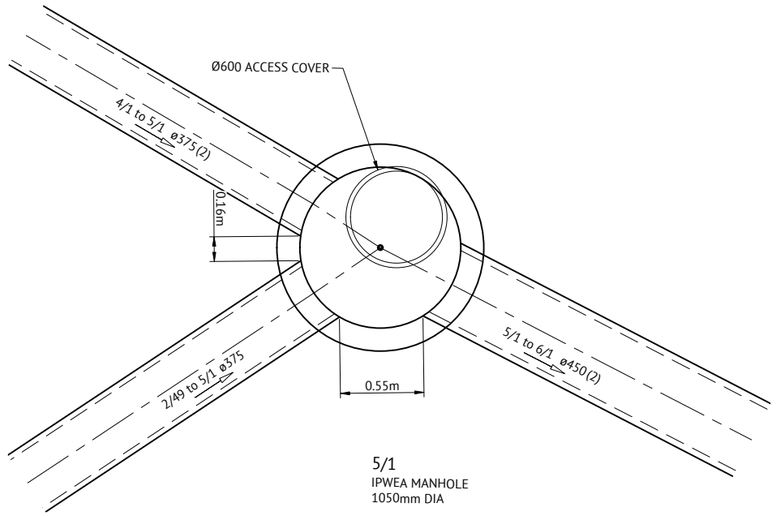
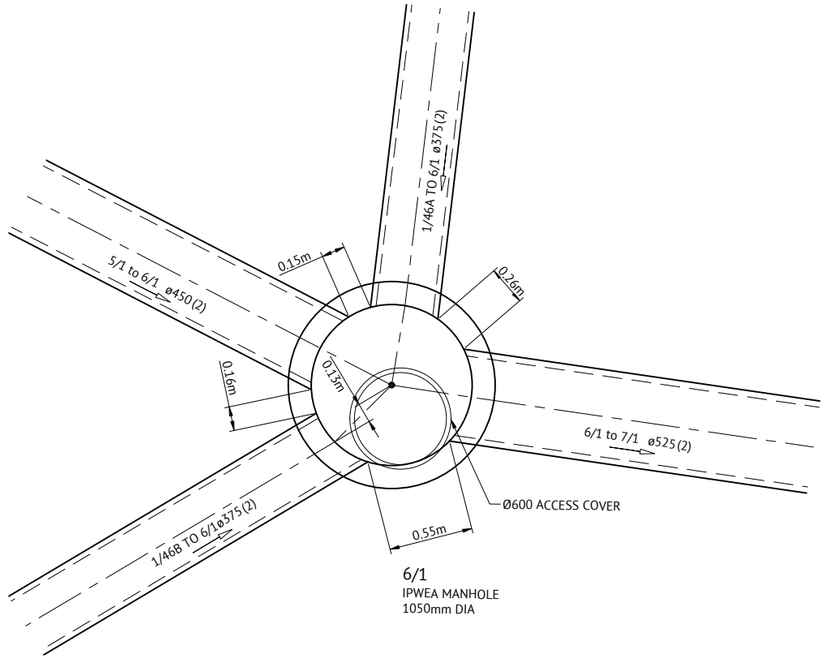
DESIGNED: KLYNT KIWANG
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112
SCALE: NTS
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE: MIR-1002
SHEET NUMBER: C420
REV: B



5/1
IPWEA MANHOLE
1050mm DIA



6/1
IPWEA MANHOLE
1050mm DIA

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 0.4 0.8 1.2m
SCALE 1:20 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE STRUCTURE DETAILS

JOB CODE MIR-1002
SHEET NUMBER C430
REV B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES										PART FULL			DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENT'S CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY (MINOR STORM)	NORMAL DEPTH VELOCITY (1 YEAR STORM)	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m				m			m	m/s	m/s	m	m	m	m	m	m	
1/1	2/1	1/1	6.00	122	0.76	0.058	0.044	15	15	1.368	0.044	2.46	170	15	0	1/40	6.00	122	0.044	0	15	37.836	2.983	375	2	0.14	0.32	32	1.00		1.02	0.001	9.70	0.009		0.009	2.73	1.060	0.057	1.43	1.3	66.247	65.118	65.959	64.926	65.969	67.210	1/1
2/1	3/1	1/1 2/1	8.00	113	0.75	0.150	0.112	35	35	1.778	0.054	3.67	255	35	0	3/1	8.00	113	0.157	0	49	40.547	4.899	375	2	0.45	0.34	32 33 34	0.70	1.00	1.11	0.010	4.09	0.042		0.042	4.66	1.933	0.090	2.41	2.2	65.098	63.112	64.884	62.993	64.926	66.052	2/1
3/1	4/1	1/1 2/1 3/1	8.00	113	0.75	0.158	0.118	37	37	1.652	0.051	5.98	310	37	0	1/46A	8.34	112	0.274	0	85	12.933	2.523	375	2	0.77	0.11	37 42 43	0.43	1.00	1.19	0.030	2.04	0.062	2.34	0.071	0.88	0.172	0.143	2.21	2.04	63.092	62.766	62.931	62.816	63.002	64.035	3/1
4/1	5/1	1/1 2/1 3/1 4/1	8.00	113	0.75	0.272	0.204	64	64	1.628	0.071	4.79	589	54	10	2/49	8.11	113	0.473	0	139	14.481	5.215	375	2	1.26	0.12	42 46 43 47	0.39	1.00	1.54	0.080	2.13	0.171	2.52	0.202	6.06	0.454	0.152	3.29	3.07	62.746	61.991	62.645	61.768	62.847	63.719	4/1
5/1	6/1	1/49 2/49 1/1 2/1 3/1 4/1	0.00	0		0.000	0.000	0	0		0.000			0	0		8.23	112	0.590	0	184	88.766	5.640	450	2	1.16	0.74	42 46 43 47	0.00	1.00	1.35	0.068	1.90	0.130	2.32	0.158	5.53	4.968	0.160	3.62	3.33	61.423	56.417	61.275	56.362	61.433	62.976	5/1
6/1																																													56.364	57.962	6/1
1/28	2/28	1/28	8.00	113	0.75	0.214	0.160	50	50		0.007	0.39	375	50	0	2/28	8.00	113	0.160	0	50	7.945	1.000	375	2	0.46	0.07	32	1.00		1.27	0.011	9.70	0.103		0.103	1.31	0.070	0.138	1.37	1.26	54.725	54.646	54.513	54.409	54.616	55.666	1/28
2/28	TE1/28	1/28 2/28	6.00	122	0.76	0.049	0.037	13	13		0.000	0.39	375	13	0	1/24D	8.07	113	0.198	0	62	13.614	1.000	375	2	0.56	0.11	46 47	0.20	1.00	1.11	0.016	2.19	0.035	2.66	0.043	1.00	0.136	0.154	1.45	1.34	54.537	54.401	54.343	54.206	54.385	55.666	2/28
TE1/28																																												54.206	55.929	TE1/28
1/29	8/1	1/29	6.00	122	0.76	0.149	0.113	38	39	2.404	0.069	1.00	127	39	0	1/24C	6.00	122	0.113	0	39	4.741	1.006	375	2	0.36	0.04	32	1.00		1.17	0.006	9.70	0.063		0.063	1.46	0.039	0.121	1.28	1.17	55.120	55.072	54.887	54.817	54.950	56.060	1/29
8/1																																												54.391	56.161	8/1
1/29A	8/1	1/29A	8.00	113	0.75	0.123	0.092	29	29	2.134	0.062	1.00	127	29	0	1/28	8.00	113	0.092	0	29	14.506	1.019	375	2	0.26	0.12	32	1.00		1.09	0.003	9.70	0.034		0.034	1.13	0.140	0.103	1.17	1.08	55.069	54.921	54.816	54.649	54.850	56.178	1/29A
8/1																																												54.391	56.161	8/1
1/31	14/30	1/31	6.00	122	0.76	0.063	0.048	16	36		0.000	1.16	375	36	0	1/32	6.00	122	0.048	0	36	5.871	1.000	375	2	0.33	0.05	32	1.00		1.14	0.005	9.70	0.053		0.053	-0.16	0.009	0.115	1.25	0.97	55.520	55.462	55.307	55.317	55.360	56.461	1/31
14/30																																												55.317	56.515	14/30
1/32	14/30	1/32	8.00	113	0.75	0.098	0.073	23	38		0.000	0.82	375	38	0	1/29A	8.00	113	0.073	0	38	3.051	1.020	375	2	0.34	0.03	32	1.00		1.15	0.006	9.70	0.057		0.057	0.01	0.001	0.118	1.26	1.04	55.368	55.337	55.317	55.317	55.374	56.459	1/32
14/30																																												55.317	56.515	14/30
1/44B	7/1	1/44B	8.00	113	0.75	0.221	0.166	52	63	2.879	0.080	1.00	119	62	1	1/29	8.00	113	0.166	0	62	4.826	1.002	375	2	0.56	0.04	32	1.00		1.41	0.016	9.70	0.154		0.154	1.56	0.038	0.153	1.45	1.3	55.651	55.602	55.456	55.381	55.610	56.591	1/44B
7/1																																												55.020	56.686	7/1
1/44C	7/1	1/44C	8.00	113	0.75	0.210	0.157	49	66	2.623	0.075	2.36	163	58	8	1/31	8.00	113	0.157	0	58	16.082	1.004	375	2	0.52	0.13	32	1.00		1.36	0.014	9.70	0.136		0.136	1.16	0.152	0.148	1.42	1.33	55.816	55.655	55.616	55.428	55.751	56.783	1/44C
7/1																																												55.020	56.686	7/1
1/46A	6/1	1/46A	8.00	113	0.75	0.345	0.258	81	81	2.434	0.069	4.30	238	71	11	1/44B	8.00	113	0.258	0	71	7.742	1.200	375	2	0.64	0.06	32	1.00		1.53	0.021	9.54	0.198		0.198	1.67	0.075	0.157	1.61	1.52	56.941	56.848	56.759	56.630	56.958	57.881	1/46A
6/1																																												56.364	57.962	6/1
1/46B	6/1	1/46B	8.00	113	0.75	0.343	0.257	81	81	2.435	0.068	4.26	263	64	17	1/44C	8.00	113	0.257	0	64	7.109	2.110	375	2	0.58	0.06	32	1.00		1.44	0.017	9.70	0.166		0.166	2.83	0.092	0.129	1.91	1.8	57.097	56.947	56.906	56.701	57.072	58.073	1/46B
6/1																																												56.364	57.962	6/1
1/49	2/49	1/49	6.00	122	0.76	0.031	0.023	8	8	1.036	0.036	3.24	191	8	0	LOST	6.00	122	0.023	0	8	8.197	1.003	375	2	0.07	0.07	32	1.00		1.01	0.000	9.70	0.003		0.003	-0.01	0.001	0.054	0.80	0.74	61.714	61.631	61.466	61.467	61.468	62.654	1/49
2/49	5/1	1/49 2/49	8.00	113	0.75	0.124	0.093	29	39		0.000	2.49	375	39	0	1/46B	8.00	113	0.116	0	46	11.791	1.002	375	2	0.42	0.10	32 46 47	0.83	1.00	1.17	0.009	7.18	0.064	7.30	0.065	-0.01	0.010	0.131	1.34	1.19	61.541	61.423	61.403	61.404	61.468	62.648	2/49
1/115	2/115	1/115	6.00	122	0.76	0.077	0.058	20	20	1.360	0.064	1.92	212	20	0	3/115	6.00	122	0.058	0	20	16.431	1.202	375	2	0.18	0.14	32	1.00		1.04	0.002	9.70	0.016		0.016	0.29	0.080	0.081	1.12	1.03	67.672	67.474	67.397	67.349	67.413	68.678	1/115
2/115	3/115	1/115 2/115	8.00	113	0.75	0.210	0.157	49	49	2.261	0.061	2.74	196	49	0	1/1	8.00	113	0.216	0	68	20.781	1.894	375	2	0.61	0.17	32 34 37	0.71	1.00	1.22	0.019	4.24	0.081		0.081	1.77	0.389	0.136	1.87	1.72	67.454	67.061	67.268	66.899	67.349	68.443	2/115
3/115	4/115	1/115 2/115 3/115	6.00	122	0.76	0.041	0.031	11	11	1.044	0.054	1.42	175	11	0	9/82	8.17	112	0.247	0	77	15.098	2.048	375	2	0.70	0.13	37 42 43	0.14	1.00	1.08	0.025	1.25	0.031	1.26	0.031	1.89	0.305	0.142	2.00	1.84	67.041	66.731	66.868	66.582	66.899	68.098	3/115
4/115	TE/115	1/115 2/115 3/115															8.30	112	0.247	0	77	13.459	6.000	375	2	0.69	0.11	42 46 43 47	0.00	1.00	1.14	0.024	1.78	0.044	2.10	0.051	6.00	0.808	0.107	2.94	2.7	66.711	65.904	66.538	65.730	66.590	67.716	4/115
TE/115																																												65.730	67.173	TE/115

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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LEVEL 11, 300 ADELAIDE STREET
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DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER CALCULATIONS 39% AEP STORM

JOB CODE: MIR-1002
SHEET NUMBER: C440
REV: B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN										HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF			
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	DEPTH x VELOCITY PRODUCT	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m					%	m	m	m/s	m	m	m	m	m	m	m	l/s	l/s	m^2/s	
1/1	2/1	1/1	6.00	275	1.00	0.058	0.058	45	89	2.46	43	46	1/40	6.00	275	0.058	0	43	37.836	2.983	375	2	0.39	0.32	32	1.00		1.20	0.008	9.70	0.075		0.075	2.23	0.895	0.096	1.94	66.247	65.118	66.022	65.175	66.097	67.210	2479	89	0.07	1/1
2/1	3/1	1/1 2/1	8.00	252	1.00	0.150	0.150	105	105	3.67	78	27	3/1	8.00	252	0.208	0	117	40.547	4.899	375	2	1.06	0.34	32 33 34	0.64	1.00	1.53	0.057	3.49	0.200		0.200	2.70	1.150	0.141	3.08	65.098	63.112	64.975	63.880	65.175	66.052	2236	105	0.09	2/1
3/1	4/1	1/1 2/1 3/1	8.00	252	1.00	0.158	0.158	110	138	5.98	95	43	1/46A	8.34	249	0.366	0	208	12.933	2.523	375	2	1.89	0.11	37 42 43	0.45	1.00	3.11	0.182	1.57	0.286	1.60	0.290	1.41	0.183	0.242	2.76	63.092	62.766	63.595	63.412	63.885	64.035	2012	138	0.12	3/1
4/1	5/1	1/1 2/1 3/1 4/1	8.00	252	1.00	0.272	0.272	190	190	4.79	117	73	2/49	8.11	251	0.632	0	323	14.481	5.215	375	2	2.92	0.12	42 46 43 47	0.36	1.00	3.07	0.435	1.55	0.676	1.78	0.775	3.94	0.578	0.255	4.03	62.746	61.991	62.735	62.164	63.510	63.719	2108	190	0.17	4/1
5/1	6/1	1/49 2/49 1/1 2/1 3/1 4/1	0.00	0		0.000	0.000	0	0		0	0		8.23	250	0.787	0	501	88.766	5.640	450	2	3.15	0.74	42 46 43 47	0.00	1.00	2.90	0.507	1.49	0.754	1.68	0.854	5.39	4.792	0.288	4.66	61.423	56.417	61.410	56.627	62.264	62.976	2163	0		5/1
6/1																																									56.627	57.962				6/1
1/28	2/28	1/28	8.00	252	1.00	0.214	0.214	150	2329	0.39	26	2303	2/28	8.00	252	0.214	0	26	7.945	1.000	375	2	0.23	0.07	32	1.00		3.49	0.003	3.27	0.009		0.009	0.02	0.002	0.097	1.14	54.725	54.646	55.652	55.650	55.661	55.666	2528	2329		1/28
2/28	TE1/28	1/28 2/28	6.00	275	1.00	0.049	0.049	38	2341	0.39	273	2068	1/24D	8.07	251	0.264	0	295	13.614	1.000	375	2	2.67	0.11	32 46 47	0.91	1.00	4.01	0.364	2.27	0.826	2.31	0.841	2.83	0.385	0.375	2.67	54.537	54.401	54.824	54.439	55.665	55.666	2528	2341		2/28
TE1/28																																									54.439	55.929				TE1/28
1/29	8/1	1/29	6.00	275	1.00	0.149	0.149	114	593	1.00	248	345	1/24C	6.00	275	0.149	0	248	4.741	1.006	375	2	2.25	0.04	32	1.00		3.40	0.257	3.36	0.865		0.865	2.33	0.094	0.375	2.25	55.120	55.072	55.156	55.045	56.021	56.060	2245	593	0.18	1/29
8/1																																									54.554	56.161				8/1
1/29A	8/1	1/29A	8.00	252	1.00	0.123	0.123	86	2243	1.00	64	2179	1/28	8.00	252	0.123	0	278	14.506	1.019	375	2	2.51	0.12	32	1.00		3.96	0.323	2.77	0.893		0.893	2.58	0.370	0.375	2.51	55.069	54.921	55.285	54.903	56.178	56.178	2245	2243	0.42	1/29A
8/1																																									54.554	56.161				8/1
1/31	14/30	1/31	6.00	275	1.00	0.063	0.063	48	1348	1.16	50	1298	1/32	6.00	275	0.063	0	50	5.871	1.000	375	2	0.45	0.05	32	1.00		1.27	0.010	9.70	0.101		0.101	0.21	0.041	0.137	1.37	55.520	55.462	55.307	55.295	55.409	56.461	1787	1348		1/31
14/30																																									55.295	56.515				14/30
1/32	14/30	1/32	8.00	252	1.00	0.098	0.098	68	2507	0.82	50	2457	1/29A	8.00	252	0.098	0	50	3.051	1.020	375	2	0.45	0.03	32	1.00		1.27	0.010	9.70	0.101		0.101	0.01	0.002	0.137	1.37	55.368	55.337	55.295	55.295	55.397	56.459	2550	2507		1/32
14/30																																									55.295	56.515				14/30
1/44B	7/1	1/44B	8.00	252	1.00	0.221	0.221	155	395	1.00	215	179	1/29	8.00	252	0.221	0	215	4.826	1.002	375	2	1.95	0.04	32	1.00		2.98	0.194	3.83	0.743		0.743	1.90	0.066	0.375	1.95	55.651	55.602	55.652	55.560	56.395	56.591	1873	395	0.14	1/44B
7/1																																									55.178	56.686				7/1
1/44C	7/1	1/44C	8.00	252	1.00	0.210	0.210	147	275	2.36	155	121	1/31	8.00	252	0.210	0	155	16.082	1.004	375	2	1.40	0.13	32	1.00		2.41	0.100	5.28	0.529		0.529	1.10	0.159	0.274	1.79	55.816	55.655	55.731	55.553	56.260	56.783	2479	275	0.13	1/44C
7/1																																									55.178	56.686				7/1
1/46A	6/1	1/46A	8.00	252	1.00	0.345	0.345	242	284	4.30	45	240	1/44B	8.00	252	0.345	0	45	7.742	1.200	375	2	0.41	0.06	32	1.00		1.22	0.008	9.70	0.082		0.082	1.18	0.093	0.123	1.42	56.941	56.848	56.718	56.627	56.800	57.881	2165	284	0.16	1/46A
6/1																																									56.627	57.962				6/1
1/46B	6/1	1/46B	8.00	252	1.00	0.343	0.343	240	240	4.26	112	128	1/44C	8.00	252	0.343	0	112	7.109	2.110	375	2	1.01	0.06	32	1.00		1.98	0.052	7.09	0.369		0.369	3.05	0.079	0.175	2.21	57.097	56.947	56.968	56.746	57.337	58.073	2165	240	0.15	1/46B
6/1																																									56.627	57.962				6/1
1/49	2/49	1/49	6.00	275	1.00	0.031	0.031	24	24	3.24	24	0	LOST	6.00	275	0.031	0	24	8.197	1.003	375	2	0.21	0.07	32	1.00		3.47	0.002	3.29	0.008		0.008	0.02	0.001	0.093	1.11	61.714	61.631	62.631	62.630	62.639	62.654	1743	24	0.04	1/49
2/49	5/1	1/49 2/49	8.00	252	1.00	0.124	0.124	87	160	2.49	160	0	1/46B	8.00	252	0.155	0	182	11.791	1.002	375	2	1.65	0.10	32 46 47	0.87	1.00	3.93	0.138	2.45	0.339	2.51	0.348	1.08	0.127	0.322	1.80	61.541	61.423	62.291	62.164	62.639	62.648	1867	160		2/49
1/115	2/115	1/115	6.00	275	1.00	0.077	0.077	59	59	1.92	54	5	3/115	6.00	275	0.077	0	54	16.431	1.202	375	2	0.49	0.14	32	1.00		1.36	0.012	9.70	0.119		0.119	0.10	0.016	0.136	1.49	67.672	67.474	67.686	67.670	67.805	68.678	2531	59	0.07	1/115
2/115	3/115	1/115 2/115	8.00	252	1.00	0.210	0.210	147	147	2.74	103	44	1/1	8.00	252	0.288	0	152	20.781	1.894	375	2	1.38	0.17	32 34 37	0.66	1.00	1.81	0.097	3.12	0.303		0.303	0.52	0.156	0.217	2.31	67.454	67.061	67.367	67.258	67.670	68.443	2390	147	0.10	2/115
3/115	4/115	1/115 2/115 3/115	6.00	275	1.00	0.041	0.041	31	36	1.42	36	0	9/82	8.17	250	0.329	0	184	15.098	2.048	375	2	1.67	0.13	37 42 43	0.19	1.00	1.58	0.142	1.40	0.199	1.41	0.200	1.11	0.167	0.239	2.48	67.041	66.731	67.059	66.892	67.259	68.098	2418	36	0.05	3/115
4/115	TE/115	1/115 2/115 3/115												8.30	249	0.329	0	183	13.459	6.000	375	2	1.66	0.11	42 46 43 47	0.00	1.00	1.75	0.140	1.73	0.243	2.00	0.281	6.01	0.808	0.171	3.73	66.711	65.904	66.649	65.841	66.931	67.716				4/115
TE/115																																									65.841	67.173				TE/115

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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DESIGNED: KLYNT KIWANG
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER CALCULATIONS 1% AEP STORM

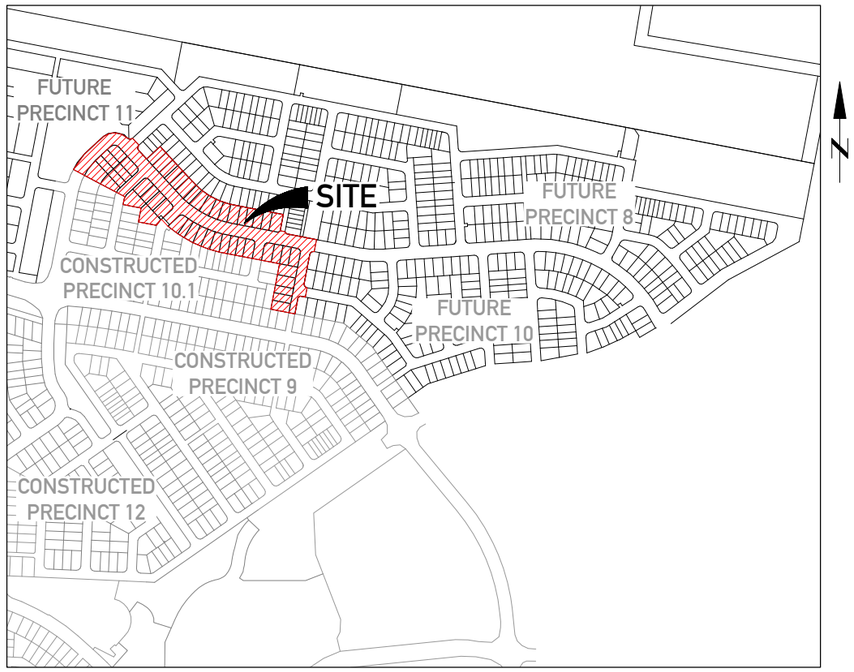
JOB CODE: MIR-1002
SHEET NUMBER: C441
REV: B

EVERLEIGH PRECINCT 10.2 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 10.2 SUBDIVISION DEVELOPMENT
SUBDIVIDER		Mirvac QLD Pty Ltd
APPLICATION No.		DEV2022/1277
SP DELEGATE APPROVAL DATE		11/11/2022
COUNCIL DA APPROVAL No.		-
DRAWING/PLAN No.		C510
No. OF ALLOTMENTS		49
AREA ha		3.57ha
LENGTH OF SEWERS	DN150 uPVC SN8	661.5m
	DN180 PE SDR11	132.7m
	DN225 uPVC SN8	3.6m

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. 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.
4. 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.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN100 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
9. 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.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER,BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK AND LEVELS TO AHD.
14. REFER TO BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS.
15. 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.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER SYSTEM.
17. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SAFE SHORING TO ALLOW SEWER MAINTENANCE SECTION TO CARRY OUT LIVE SEWER WORK.
18. 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.
19. CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1100 SERIES.
20. CONSTRUCT MAINTENANCE STRUCTURES TO SEQ-SEW-1300 SERIES.
21. CONSTRUCT BULKHEADS TO SEQ-SEW-1206-1.
22. INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS.
23. CALCAREOUS CONCRETE IN MAINTENANCE HOLES REQUIRED IN ACCORDANCE WITH SEQ WS&S D&C CODE REQUIREMENTS.
24. 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

A. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIRDLES S HALL 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.
C. 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.
D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST

SOIL

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

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

REHABILITATION

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

SAFETY

A. 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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
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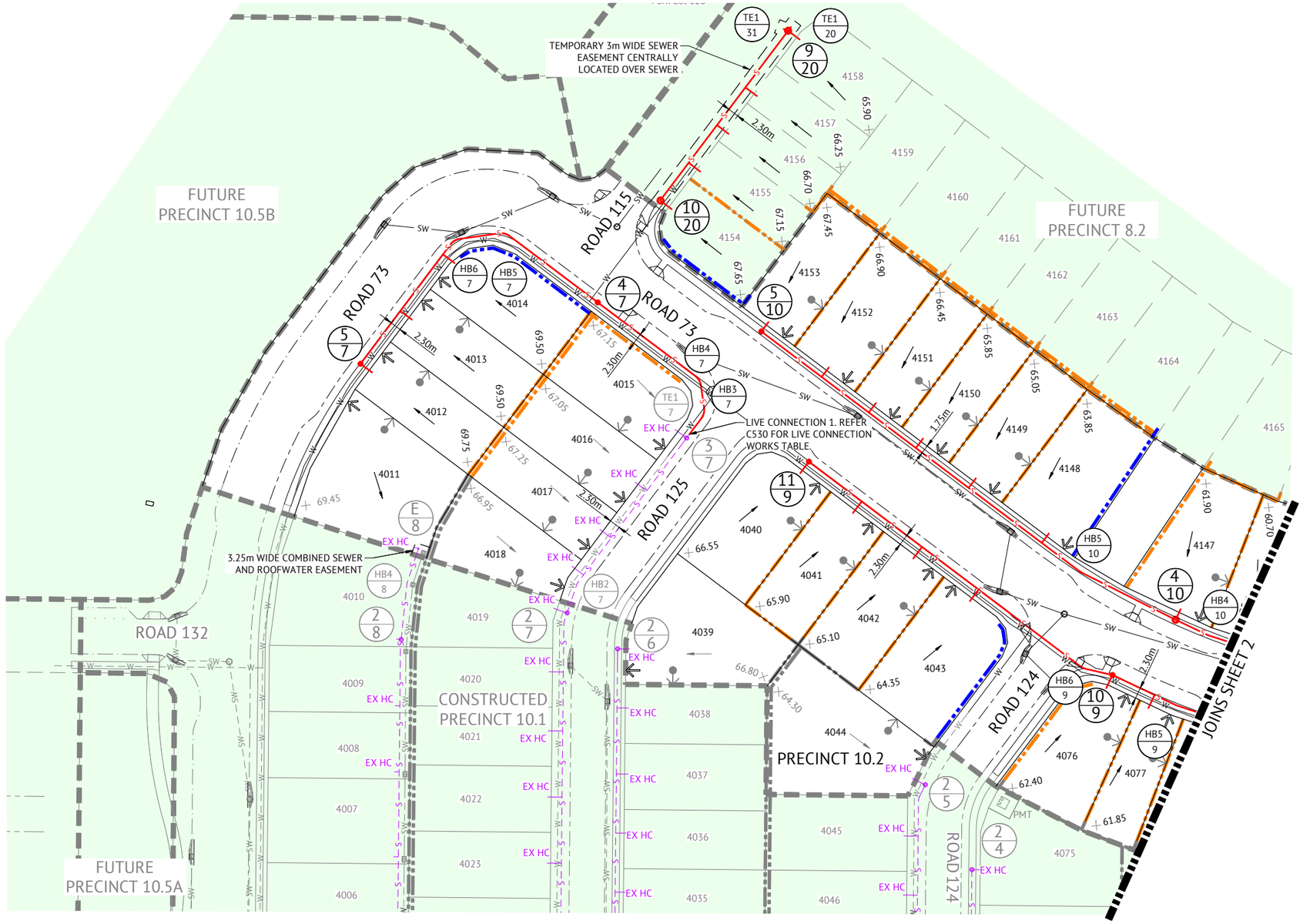
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 100 200 300m
SCALE 1:5000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LOCALITY PLAN & NOTES

JOB CODE MIR-1002
SHEET NUMBER C500
REV B



LAYOUT PLAN

SCALE 1:500

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
- SEWER RISING MAIN
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- LOT NUMBER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY
- FALL ARROW

LEGEND - CONSTRUCTED

- Ø100mm CONSTRUCTED PROPERTY CONNECTION
- GRAVITY SEWER
- MAINTENANCE STRUCTURE
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- PAD EXCLUSION ZONE

CONSTRUCTED HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
4011	67.434	1.350
4015	66.354	1.250
4016	66.351	1.250
4017	66.351	1.250
4018	66.347	1.250
4039	64.588	1.250
4044	61.740	1.250

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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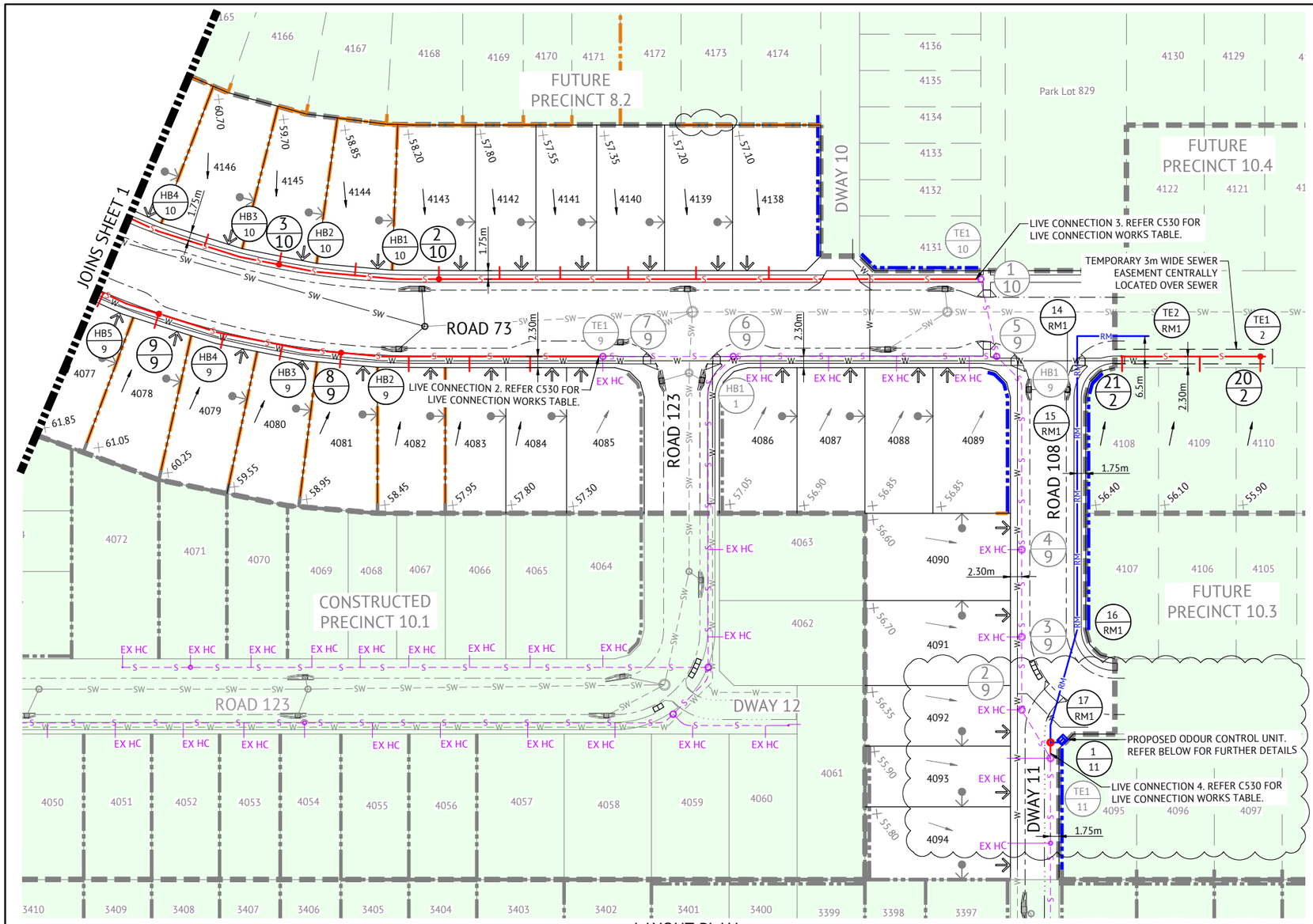
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR 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 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LAYOUT PLAN - SHEET 1

JOB CODE MIR-1002
SHEET NUMBER C510
REV B



CONSTRUCTED HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
4085	55.847	1.250
4086	55.432	1.250
4087	55.213	1.250
4088	55.073	1.250
4089	55.015	1.250
4090	54.805	1.250
4091	54.883	1.250
4092	54.793	1.250
4093	54.362	1.250
4094	53.837	1.250

LEGEND - PROPOSED

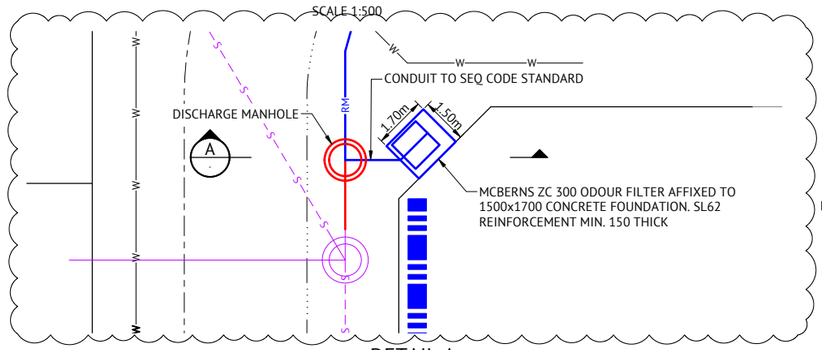
- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BDY WITH DWAY. 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY. TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- SEWER RISING MAIN
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL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

LEGEND - CONSTRUCTED

- Ø100mm CONSTRUCTED PROPERTY CONNECTION
- GRAVITY SEWER
- MAINTENANCE STRUCTURE
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- PAD EXCLUSION ZONE

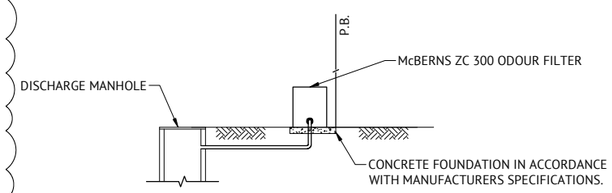
LAYOUT PLAN

SCALE 1:500



DETAIL A

SCALE 1:100



SECTION A

SCALE 1:100

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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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 CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED LINES 11 AND RM1, ADDED RETAINING WALL	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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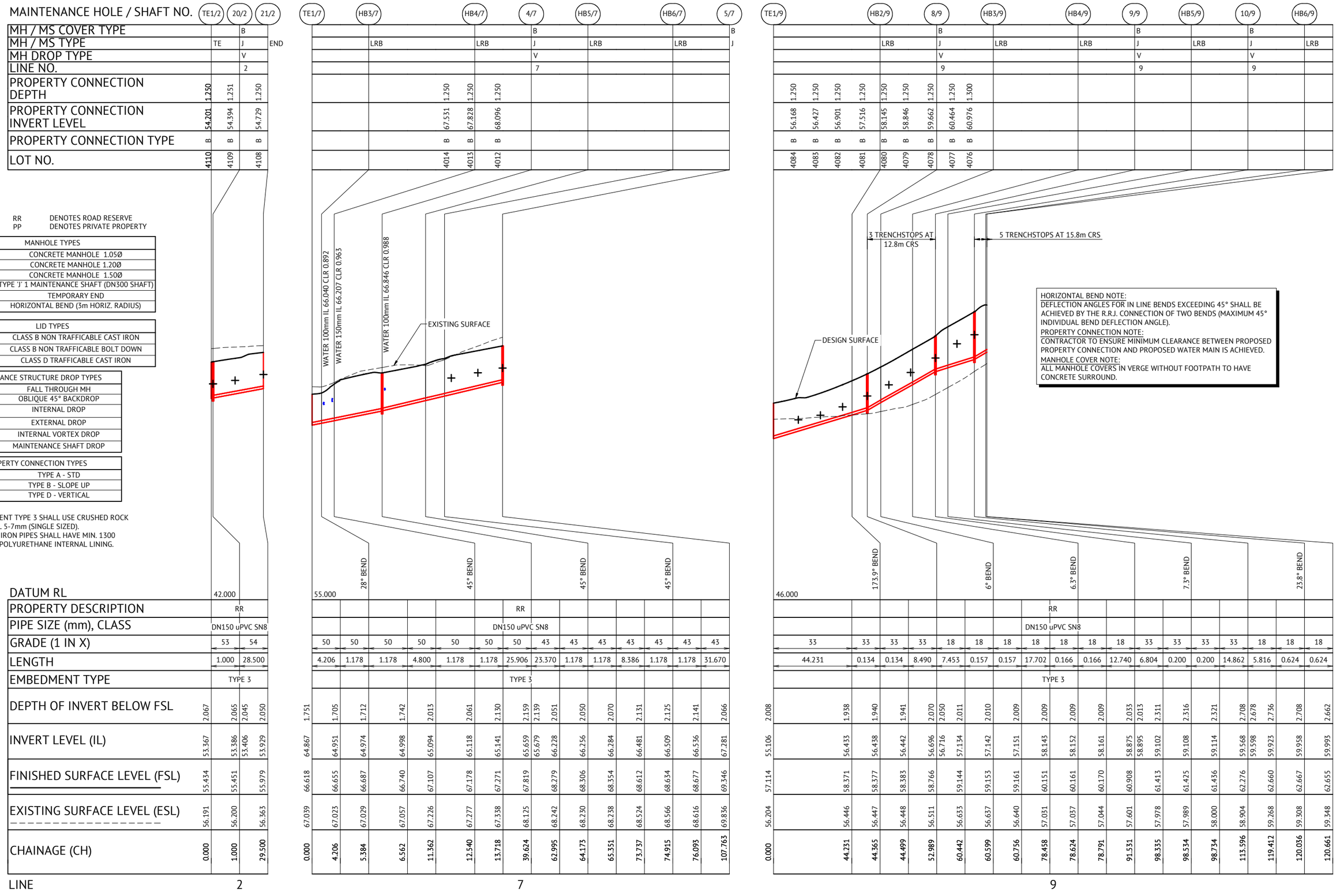
DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 10 20 30m
SCALE 1:500 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE LAYOUT PLAN - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C511
REV B



LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.05Ø
B	CONCRETE MANHOLE 1.20Ø
C	CONCRETE MANHOLE 1.50Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
LRB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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

NOTES:
1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
2. 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.J. 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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 1

JOB CODE MIR-1002
SHEET NUMBER C520
REV B

MAINTENANCE HOLE / SHAFT NO.		11/9	TE1/10	2/10	HB1/10	HB2/10	3/10	HB3/10	HB4/10	4/10	HB5/10	5/10	TE1/11	1/11	TE1/20	9/20	10/20	9/20	TE1/31
MH / MS COVER TYPE		B		B			B			B		B		D		B	B	B	
MH / MS TYPE		J		J	LRB	LRB	J	LRB	LRB	A	LRB	J	TE	A	TE	A	J	A	TE
MH DROP TYPE				V			V			V					V	Y		V	Y
LINE NO.				10			10			10					31	20		31	20
PROPERTY CONNECTION DEPTH		1.250	1.250 1.250 1.250 1.250 1.250 1.250	1.250	1.250	1.300	1.350	1.250 1.250 1.250 1.250 1.250							1.251	1.250 1.250 1.250 1.251			
PROPERTY CONNECTION INVERT LEVEL		62.829	55.350 55.500 55.652 55.908 56.240 56.669	57.466	58.378	59.378	60.576	62.461							64.094	64.796 65.264 65.732 66.199			
PROPERTY CONNECTION TYPE		D	B B B B B D	B	B	B	B	B B B B B							B	B B B B			
LOT NO.		4043	4138 4139 4140 4141 4142 4143	4144	4145	4146	4147	4148							4158	4157 4156 4155 4154			

DISCHARGE MANHOLE IN ACCORDANCE WITH SEQ-SPS-1406-1

5 TRENCHSTOPS AT 15.8m CRS

5 TRENCHSTOPS AT 13.3m CRS

DESIGN SURFACE

EXISTING SURFACE

STORMWATER 375mm IL 61.117 CLR 0.356

WATER 100mm IL 55.389 CLR 1.115

5.1° BEND

6° BEND

6.3° BEND

7.3° BEND

10.3° BEND

HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. 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.

LEGEND

RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.05Ø
B	CONCRETE MANHOLE 1.20Ø
C	CONCRETE MANHOLE 1.50Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
LRB	HORIZONTAL BEND (3m HORIZ. RADIUS)

LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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

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

DATUM RL	50.000	46.000														51.000	44.000	52.000	52.000
PROPERTY DESCRIPTION	RR						RR										RR	RR	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8						DN150 uPVC SN8										DN225 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X)	18	77	15	15	15	15	15	15	15	15	15	15	15	15	15	21	40	180 22	29
LENGTH	72.007	110.680	8.435	0.134	0.134	16.660	0.157	0.157	7.484	8.007	0.166	0.166	17.352	0.191	0.191	7.490	22.369	0.270	0.270	84.268	2.261	1.000 45.000	1.000
EMBEDMENT TYPE	TYPE 3						TYPE 3														TYPE 3	TYPE 3	TYPE 3
DEPTH OF INVERT BELOW FSL	2.662	2.448	2.646	2.626	2.406	2.403	2.400	2.134	2.132	2.131	2.080	2.060	2.023	2.022	2.022	2.081	2.081	2.080	2.059	1.929	2.159	2.154	2.149	1.962	1.169	1.205	2.911	2.952 1.975	2.014	2.952	2.872	2.794
INVERT LEVEL (IL)	59.993	53.845	55.273	55.293	55.867	55.876	55.885	57.018	57.028	57.039	57.548	57.568	58.105	58.116	58.127	59.290	59.302	59.315	59.817	59.947	61.032	61.045	61.058	65.145	54.587	54.643 54.403	62.387	62.392 63.369	65.436	62.392	62.472	62.507
FINISHED SURFACE LEVEL (FSL)	62.655	56.293	57.919	58.272	58.278	58.285	59.152	59.161	59.170	59.628	60.128	60.138	60.149	61.371	61.383	61.395	61.876	63.191	63.199	63.207	67.108	55.756	55.848	65.298	65.344	67.450	65.344	65.301
EXISTING SURFACE LEVEL (ESL)	59.348	55.403	55.770	55.959	55.963	55.967	56.315	56.317	56.319	56.661	57.038	57.045	57.053	57.945	57.954	57.963	58.350	60.265	60.294	60.322	66.992	57.876	58.009	65.753	65.764	67.557	65.764	65.748
CHAINAGE (CH)	120.661	0.000	110.680	119.115	119.249	119.383	136.043	136.200	136.357	143.841	151.848	152.014	152.180	169.532	169.723	169.914	177.404	199.773	200.043	200.313	284.580	0.000	2.261	0.000	1.000	46.000	0.000	1.000	0.000	1.000
LINE	9		10																			11		20			31				

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED LINES 10 AND 11	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

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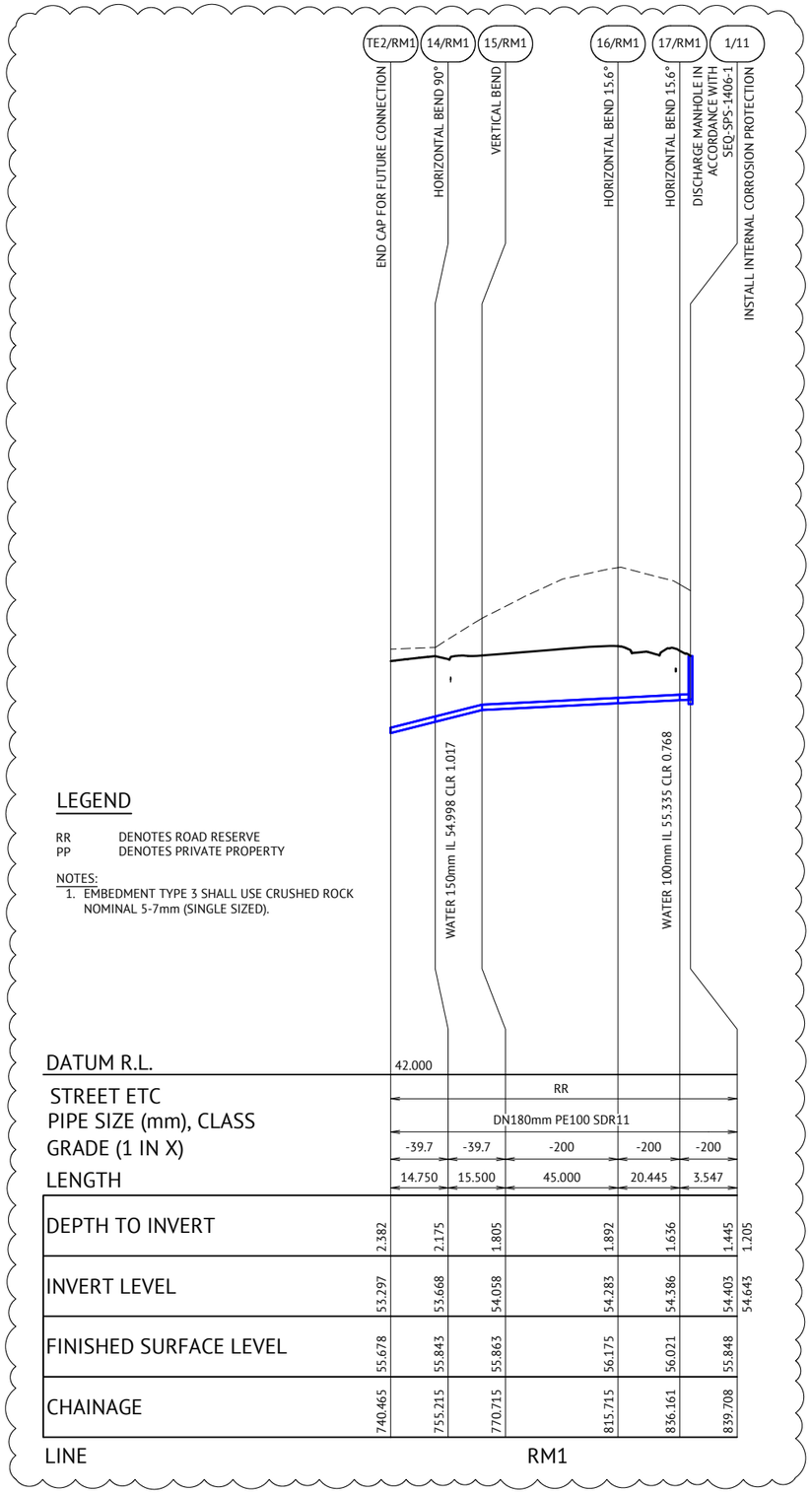
SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C521
REV B



CONCRETE FOR MANHOLE 1/11 CONSTRUCTION SHALL BE TO SPECIAL CLASS TO WSA PS-358 WITH CALCAREOUS AGGREGATE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED LINE RM1	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RISING MAIN LONG SECTIONS

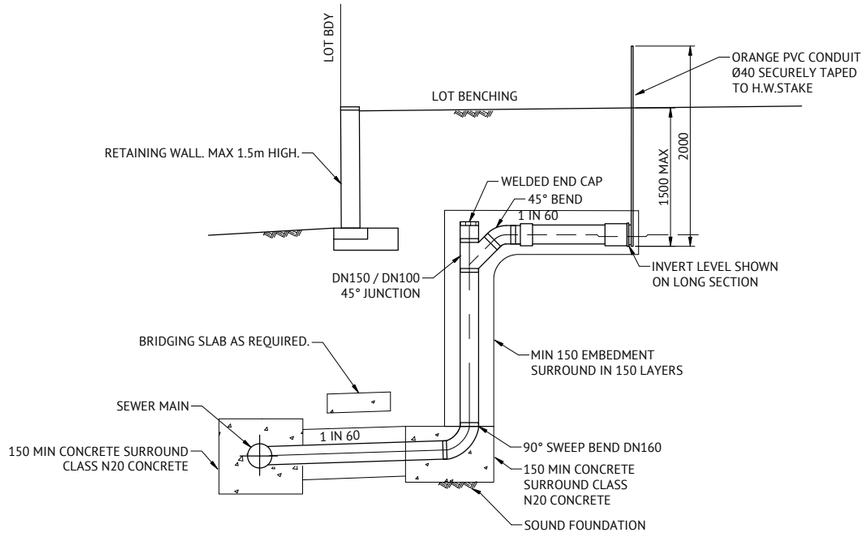
JOB CODE MIR-1002
SHEET NUMBER C522
REV B

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 TE1/7, CONSTRUCTOR TO LAY NEW LINE 7. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/7	END	-	4015	66.618	67.039	64.867	1.751
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 7 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP TE1/9, CONSTRUCTOR TO LAY NEW LINE 9. AFTER CLEANSING, TESTING AND INSPECTING.	150	TE1/9	END	-	4085	57.114	56.204	55.106	2.008
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 9 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP TE1/10, CONSTRUCTOR TO LAY NEW LINE 10. AFTER CLEANSING, TESTING AND INSPECTING.	150	TE1/10	END	-	4131	56.286	55.403	53.845	2.441
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 10 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
4(A)	0.5m FROM STUB END CAP TE1/11, CONSTRUCTOR TO LAY NEW LINE 11. AFTER CLEANSING, TESTING AND INSPECTING.	225	TE1/11	END	-	4093	55.756	57.876	54.587	1.169
4(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 11 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

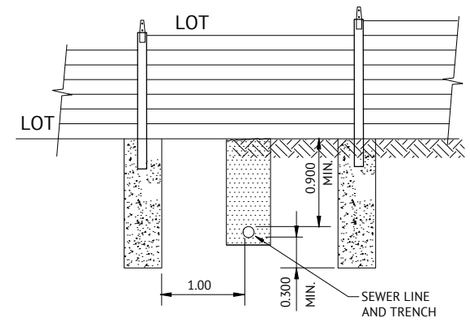
LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS.
AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

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 COMMENCING ANY WORK.
IT IS THE DEVELOPER'S RESPONSIBILITY TO ENSURE ALL LIVE SEWER WORKS ARE COMPLETE BEFORE ALLOWING PRIVATE DRAINAGE TO BE CONNECTED.



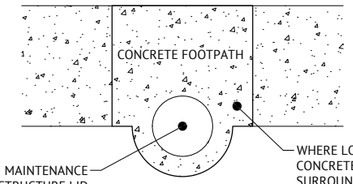
EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)

NTS



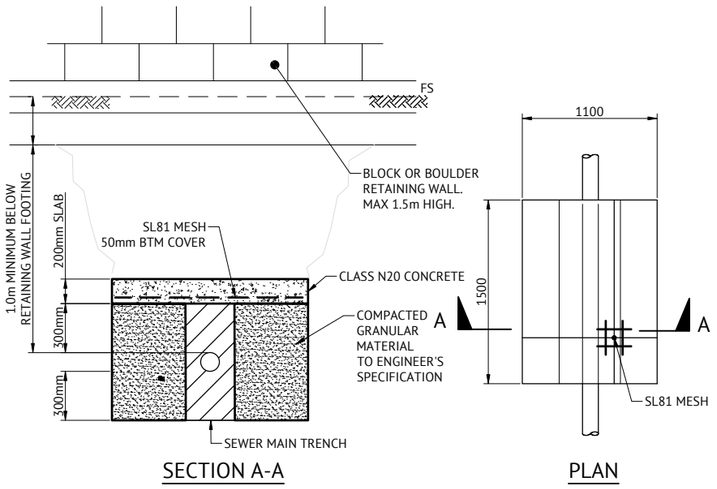
SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL

NTS



TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL

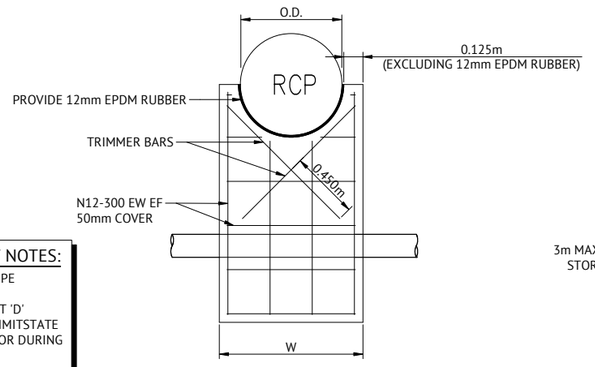
NTS



SECTION A-A PLAN

SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

NTS



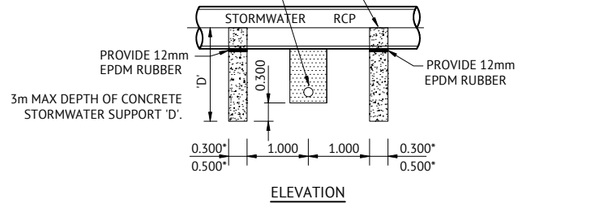
SECTION

GENERAL CONCRETE STORMWATER SUPPORT NOTES:

1. SUPPORTS TO BE INSTALLED WHERE STORMWATER PIPE DIAMETER IS EQUAL TO OR GREATER THAN 600mm.
2. 3m MAX DEPTH OF CONCRETE STORMWATER SUPPORT 'D'
3. DESIGN BASED ON ACHIEVING 100kPa OF ULTIMATE LIMITSTATE BEARING CAPACITY. TO BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION.
4. 0.300m* WIDTH UP TO 1050 RCP CLASS 2
5. 0.500m* WIDTH BETWEEN 1050 AND 1800 RCP CLASS 2

CONCRETE STORMWATER SUPPORT IN ROCK NOTES

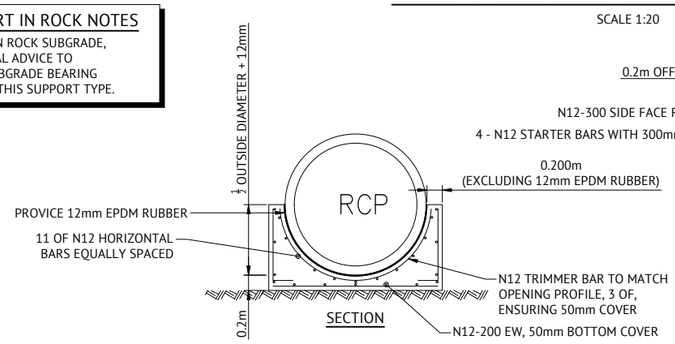
WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.



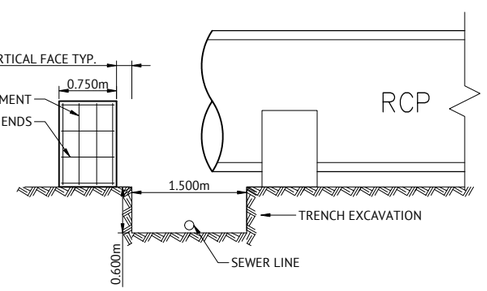
ELEVATION

CONCRETE STORMWATER SUPPORT TYPICAL DETAIL

SCALE 1:20



SECTION



ELEVATION

CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40

STRUCTURAL DETAILS APPROVED DATE: 11/12/2023
ARTHUR ROWSON RPEQ 12412

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED LIVE CONNECTION 4	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112
SCALE NTS
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE NOTES AND DETAILS

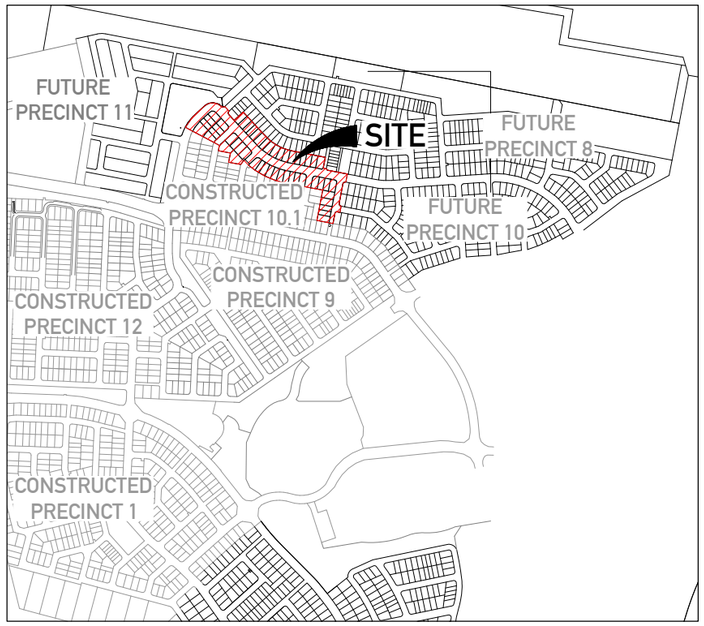
JOB CODE MIR-1002
SHEET NUMBER C530
REV B

EVERLEIGH PRECINCT 10.2 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
C611	WATER RETICULATION LAYOUT PLAN- SHEET 2
C620	WATER LIVE CONNECTION AND TYPICAL DETAILS

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. 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
7. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS. WHERE POSSIBLE
8. 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.
9. 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.
10. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
11. 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.
12. INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
13. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
14. INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
15. INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.
16. WATER SERVICE CONNECTIONS INCLUSIVE OF WATER METER BOXES ARE TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWINGS SEQ-WAT-1110-1 & SEQ-WAT-1110-2 AND OTHER RELEVANT STANDARD DRAWINGS FROM SEQ DESIGN AND CONSTRUCTION CODE.
17. TERMINATE ALL WATER SERVICES AFTER INSTALLATION OF THE BALL VALVE (PRIOR TO THE WATER METER). THE APPLICANT IS NOT REQUIRED TO MAKE AN APPLICATION TO COUNCIL FOR THE PROVISION OF A WATER METER AT THIS TIME.
18. THE POLYETHYLENE SERVICE LINE MUST COMPLY WITH AS/NZ4130 SERIES 1 DN20 PN16.
19. TAPPING BANDS MUST BE USED WHEN PROVIDING CONNECTION, UNLESS OTHERWISE APPROVED BY COUNCIL.
20. PROPERTY SERVICES WITHIN ANY FOOTWAY SHALL BE POSITIONED AT 90+/-5 DEGREES TO THE WATER MAIN OR KERB. WHERE REQUIRED TO CROSS THE ROAD CARRIAGEWAY, PROPERTY SERVICES SHALL BE LOCATED WITHIN THE SERVICE DUCTS (CONDUITS) POSITIONED AT 90+/-5 DEGREES TO THE ROAD CARRIAGEWAY OR FROM SIDE BOUNDARY TO SIDE BOUNDARY AND EXTENDING BEHIND EACH KERB IN ACCORDANCE WITH CLAUSE 5.11.3 OF THE SOUTH EAST QUEENSLAND WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE. THE CONDUIT SHALL HAVE A MAXIMUM LENGTH OF 25m AND EXTEND 300mm BEYOND THE BACK OF THE KERB OR CONCRETE/PAVED AREA.
21. WHERE PRACTICABLE, PROPERTY SERVICE CONNECTION POINTS MUST BE LOCATED 300mm FROM THE RESIDENTIAL PROPERTY SIDE BOUNDARY ON THE OPPOSITE SIDE OF THE ALLOTMENT TO THE ELECTRICAL SERVICE PILLAR-BOX. SERVICES MUST BE LOCATED AT LEAST 1.0m FROM ALL ELECTRICAL SOURCES AND CLEAR OF EXISTING OR FUTURE DRIVEWAYS. PROPERTY SERVICES LAID PARALLEL TO THE FOOTPATH AND/OR PROPERTY BOUNDARY ARE NOT PERMITTED (SEQ CODE CLAUSE 5.11.5).TERMINATE ALL WATER SERVICES AFTER INSTALLATION OF THE BALL VALVE (PRIOR TO THE WATER METER)

VEGETATION PROTECTION

1. TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
2. 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.
3. 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.
4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

1. PRE-DISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
2. 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.
3. ALL DISTURBED AREAS ARE TO BE LEFT IN STABLE CONDITION.
4. ALL PLANTING/RE-VEGETATION WILL NEED TO BE MAINTAINED THROUGHOUT THE MAINTENANCE PERIOD.

CONSTRUCTION REQUIREMENTS

1. 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.
2. PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
3. 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.
4. 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

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

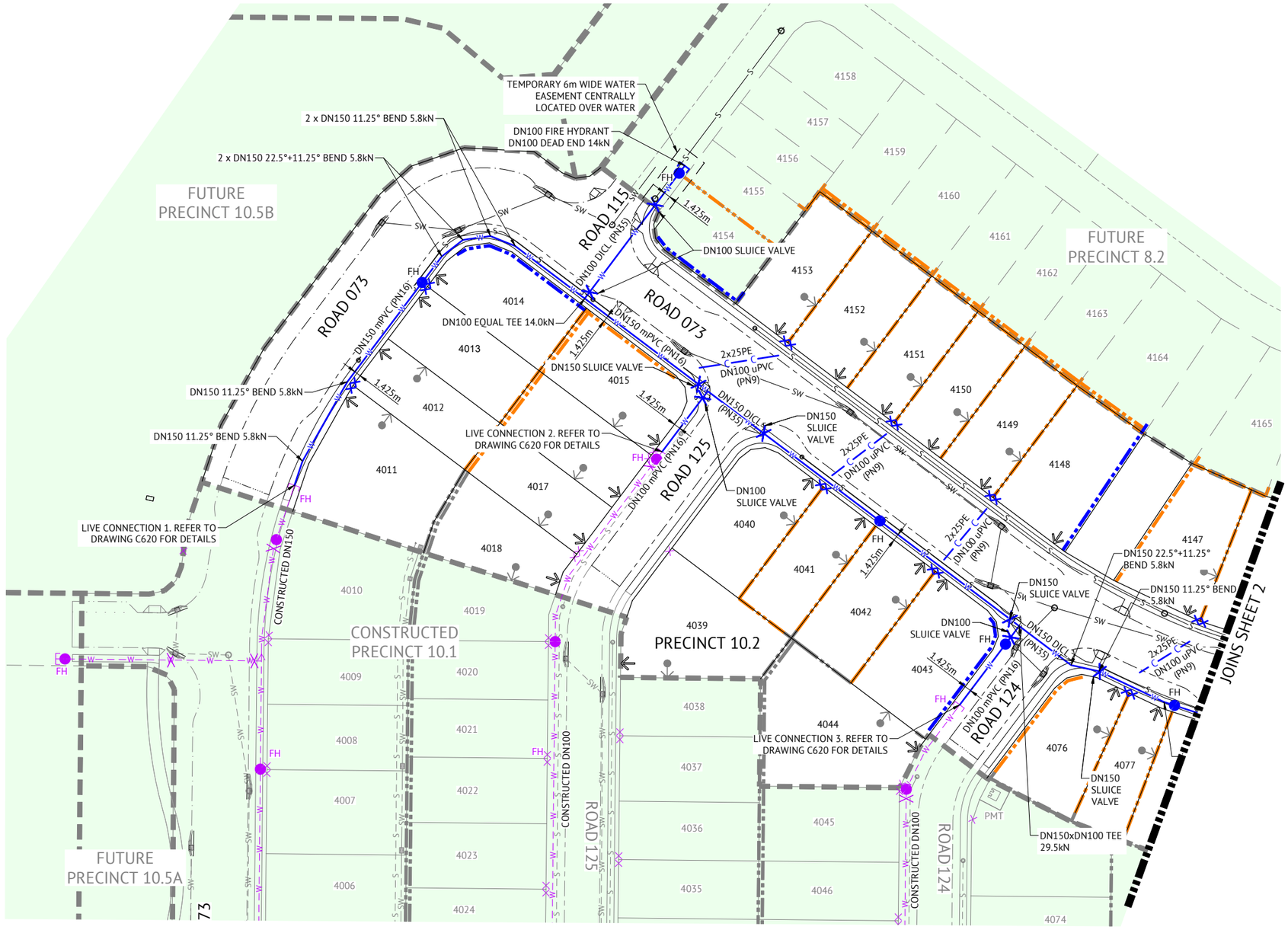
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE
0 150 300 450m
SCALE 1:7500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE MIR-1002
SHEET NUMBER C600
REV B



LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- POTABLE WATERMAIN
- DN25 PE / DN100 uPVC (PN9) — POTABLE WATER RETICULATION SERVICE WITHIN DN100 uPVC (PN9) CONDUIT
- WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION — TRUNCATIONS 5 DEGREES OR LESS
- 3260 — LOT NUMBER
- SW — STORMWATER
- RM — SEWER RISING MAIN
- S — GRAVITY SEWER
- ZERO LOT BOUNDARY
- PREFERRED DRIVEWAY LOCATION (BY OTHERS)
- SITE BOUNDARY
- PROPOSED CONCRETE SLEEPER RETAINING WALL / PROPOSED CONCRETE PANEL RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP

LEGEND - CONSTRUCTED

- WATER
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- WATER METER
- STORMWATER
- GRAVITY SEWER
- PMT EXCLUSION ZONE

FOR WATER RETICULATION NOTES, REFER DWG No. C600

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.

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

NAME of SIGNATORY

RPEQ No. or LICENCE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

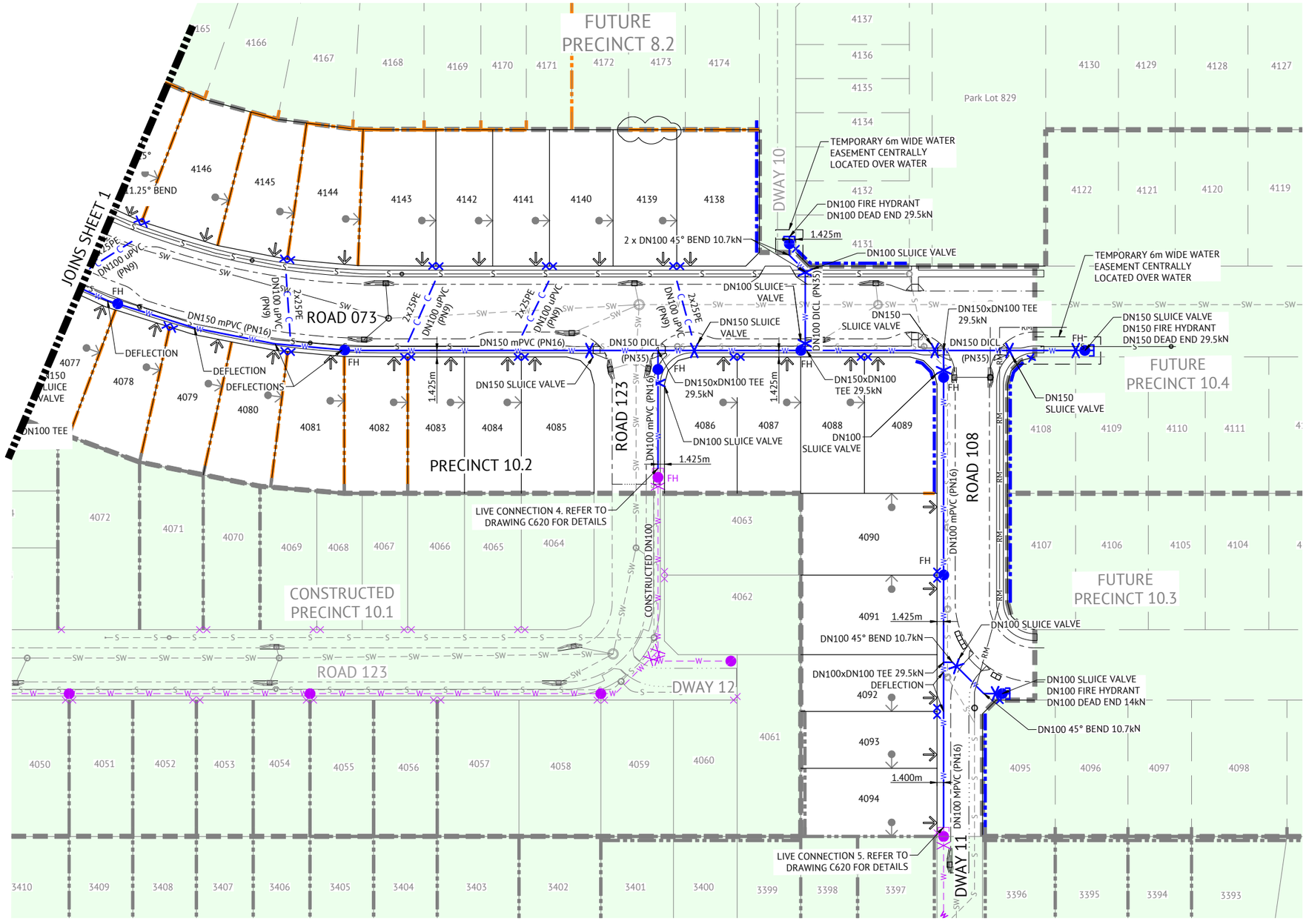
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR 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 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: WATER RETICULATION LAYOUT PLAN - SHEET 1

JOB CODE: MIR-1002
SHEET NUMBER: C610
REV: B



LAYOUT PLAN

SCALE 1:500

LEGEND - PROPOSED

- POTABLE WATERMAIN
- DN25 PE / DN100 uPVC (PN9) — POTABLE WATER RETICULATION SERVICE WITHIN DN100 uPVC (PN9) CONDUIT
- WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION — TRUNCATIONS 5 DEGREES OR LESS
- 3260 — LOT NUMBER
- SW — STORMWATER
- RM — SEWER RISING MAIN
- S — GRAVITY SEWER
- ZERO LOT BOUNDARY
- PREFERRED DRIVEWAY LOCATION (BY OTHERS)
- SITE BOUNDARY
- PROPOSED CONCRETE SLEEPER RETAINING WALL / PROPOSED CONCRETE PANEL RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP

LEGEND - CONSTRUCTED

- WATER
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- WATER METER
- SW — STORMWATER
- S — GRAVITY SEWER
- PMT — PMT EXCLUSION ZONE

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.

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

NAME of SIGNATORY

RPEQ No. or LICENCE

FOR WATER RETICULATION NOTES, REFER DWG No. C600

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - ADDED RETAINING WALL	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

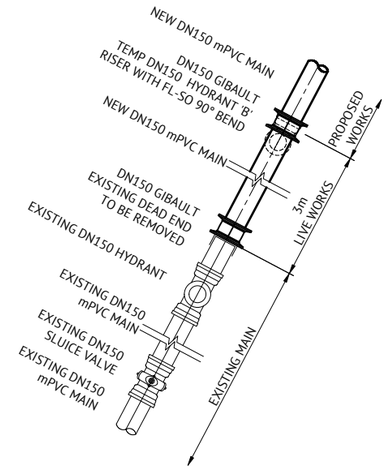
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

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

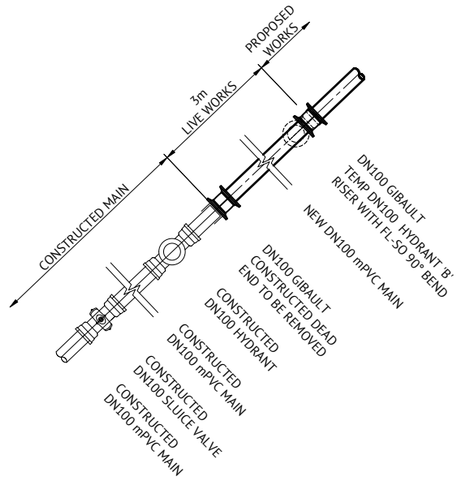
CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LAYOUT PLAN- SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C611
REV B



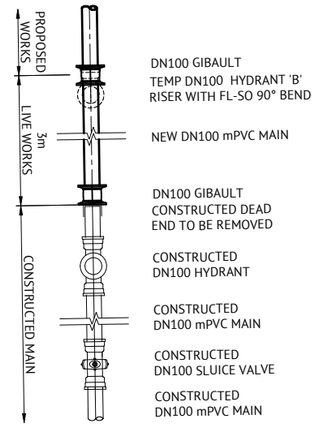
LIVE CONNECTION 1 DETAIL

SCALE 1:25



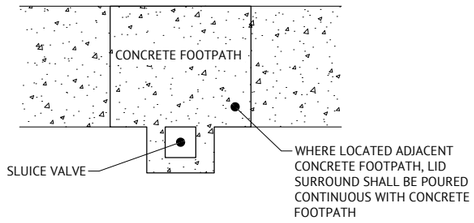
LIVE CONNECTION 2 & 3 DETAIL

SCALE 1:25



LIVE CONNECTION 4 & 5 DETAIL

SCALE 1:25



TYPICAL SLUICE VALVE ADJACENT CONCRETE FOOTPATH DETAIL

NTS

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	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

Premise

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BRISBANE, QLD 4000
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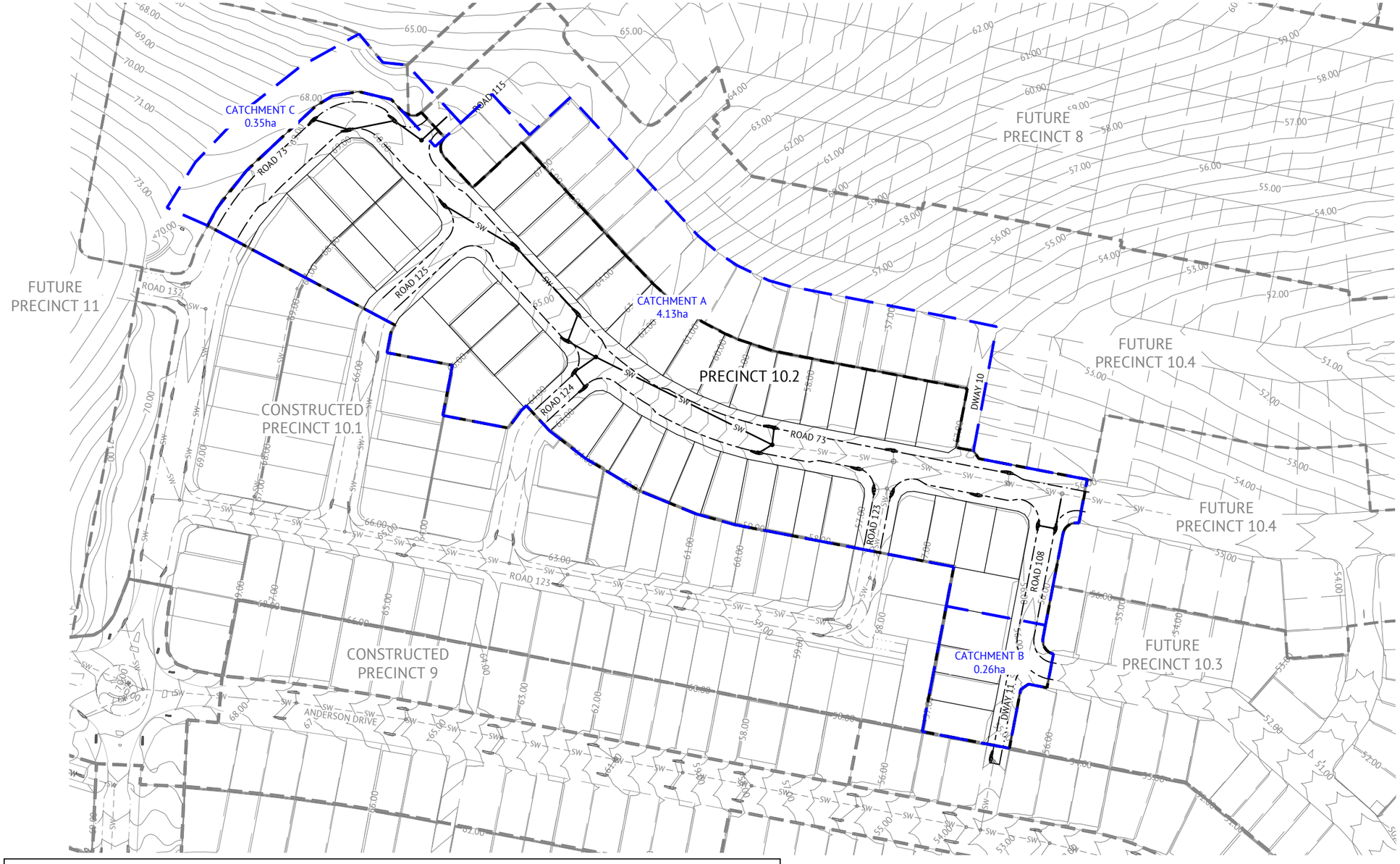
WEB: www.premise.com.au

DESIGNED KLYNT KIWANG
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR 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 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER LIVE CONNECTION AND TYPICAL DETAILS

JOB CODE MIR-1002
SHEET NUMBER C620
REV B



LEGEND - PROPOSED

- 12.0 — FINISHED CONTOURS AND LABELS
- SW — STORMWATER
- CATCHMENT BOUNDARY (POST-DEVELOPED)
- PRECINCT BOUNDARY
- PRECINCT BOUNDARY (FUTURE/EXISTING)
- CATCHMENT A 4.13ha — CATCHMENT NAME AND AREA

LEGEND - CONSTRUCTED

- SW — STORMWATER

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	134.9	152.2	128.3	77.5	71.7	65.8	46.7	35.9	34.3	78.9	97.8	125.7
EROSION RISK	HIGH	HIGH	HIGH	MODERATE	MODERATE	MODERATE	MODERATE	LOW	LOW	MODERATE	MODERATE	HIGH

	VERY LOW RISK: 0 TO 30mm
	LOW RISK: 30+ TO 45mm
	MODERATE RISK: 45+ TO 100mm
	HIGH RISK: 100+ TO 225mm
	EXTREME RISK: >225mm

CATCHMENT RISK ASSESSMENT - ANNUAL SOIL LOSS

CATCHMENT ID	AREA (HA)	R	K	SLOPE LENGTH (m)	SLOPE (%)	LS	P	C	A (t/ha/yr)	A (t/yr)	CONTROL
CATCHMENT A	4.13	2627	0.050	80	4.0	0.91	1.3	1.00	155	642	TYPE 1
CATCHMENT B	0.26	2627	0.050	40	1.0	0.16	1.3	1.00	27	7	TYPE 3
CATCHMENT C	0.35	2627	0.050	20	10.0	1.09	1.3	1.00	186	65	TYPE 1

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%)		
AUG. SEPT.	LOW	8	30 (70%)		
APR. MAY. JUN. JUL. OCT. NOV.	MODERATE	6	20 (70%)	X	
JAN. FEB. MAR. DEC	HIGH	4	10 (75%)	X	X
	EXTREME	2	10 (80%)	X	X

NOTE:
FOR CLEARING AND GRUBBING ESC DETAILS REFER TO DRAWING SET MIR-1010.

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

T. CLARK (CPESC #6089)

NOTE:
FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	NVT	PB

REVISIONS

Premise
BRISBANE OFFICE
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BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED MARK DAVIS
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE OVERALL EROSION & SEDIMENT CONTROL KEY PLAN

JOB CODE MIR-1002
SHEET NUMBER C700
REV B

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FLOW DIRECTION OR RUNOFF
- MULCH BERM
- CONCRETE SLEEPER RETAINING WALL
- CONCRETE PANEL RETAINING WALL
- DIRTY WATER DIVERSION SWALE/BUND
- 12.0 FINISHED CONTOURS AND LABELS
- SW STORMWATER
- PRECINCT BOUNDARY
- PRECINCT BOUNDARY (FUTURE/EXISTING)

LEGEND - CONSTRUCTED

- DIVERSION DRAIN
- SW STORMWATER

NOTE:
REFER TO DWG C720 FOR DRAIN SIZING AND DETAILS.

NOTE:
FOR CLEARING AND GRUBBING ESC DETAILS REFER TO DRAWING SET MIR-1010.

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 C702) WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C700). 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 FOR CATCHMENTS WHICH DO NOT DRAIN TO 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 (CPESC #6089)

NOTE:
FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	NVT	PB

REVISIONS

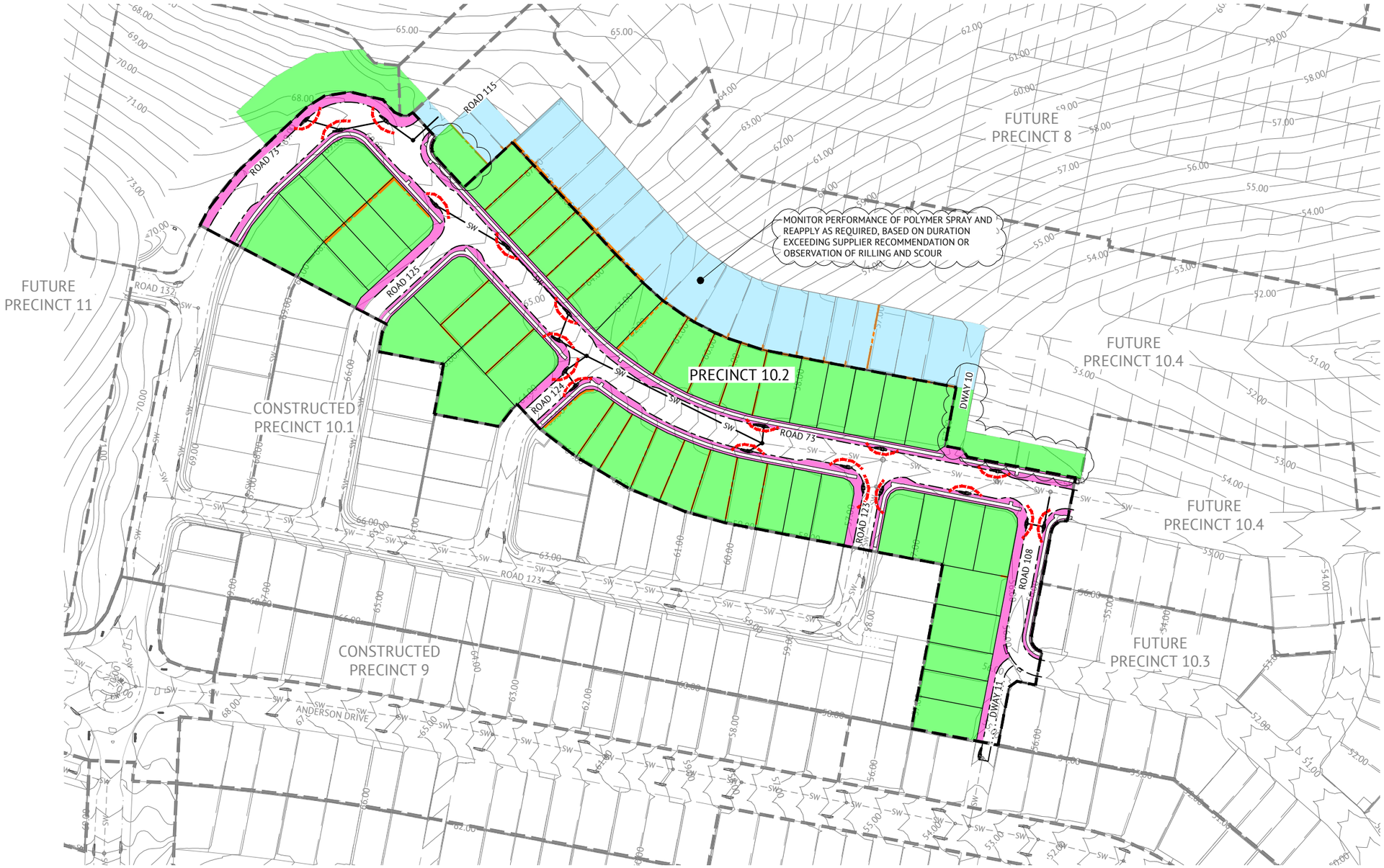
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED MARK DAVIS
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE

JOB CODE MIR-1002
SHEET NUMBER C701
REV B



LEGEND - PROPOSED

- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING. APPLY BINDER IMMEDIATELY AFTER DRILL SEEDING
- 100mm THICK TOPSOIL AND TURF
- NO TOPSOIL AND POLYMER SPRAY (LOTS AS PART OF FUTURE PRECINCT)
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- 12.0 — FINISHED CONTOURS AND LABELS
- SW — STORMWATER
- KERB LINE
- PRECINCT BOUNDARY
- PRECINCT BOUNDARY (FUTURE/EXISTING)

LEGEND - CONSTRUCTED

- SW — STORMWATER
- KERB LINE

SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE

STEP 6
- A. PRIORITY SHOULD BE GIVEN TO PLACEMENT OF GRAVELS WITHIN ROAD AS A MEANS TO REDUCE EROSION RISK
- B. PAVEMENT CONSTRUCTION
- C. MAINTAIN ALL EXISTING ESC MEASURES DURING PAVEMENT CONSTRUCTION
- D. GULLY INLET CONTROLS TO BE REINSTATED DURING PAVEMENT AND STORMWATER CONSTRUCTION AND MAINTAINED UNTIL ENTIRE UPSLOPE CATCHMENT HAS BEEN STABILISED.

STEP 7
- A. MAINTENANCE PERIOD
- B. MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.

STEP 8
- A. REMOVE CONSTRUCTION ENTRANCES.
- B. 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.

TURFING AND TOPSOIL NOTE

CONTRACTOR SHALL RESPREAD AMELIORATED TOPSOIL (AMELIORATION REQUIREMENTS AS DIRECTED BY SUPERINTENDENT) TO VERGES AT A THICKNESS OF 100mm.

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

T. CLARK (CPESC #6089)

NOTE:

FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION - UPDATED STABILISATION AND ADDED NOTE	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	NVT	PB

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
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DESIGNED MARK DAVIS
CHECKED ANDREW LANGDON
PROJECT MANAGER NICK SOMERVILLE
PROJECT DIRECTOR PATRICK BRADY RPEQ 7112

SCALE 0 20 40 60m
SCALE 1:1000 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE MIR-1002
SHEET NUMBER C702
REV B

EROSION & SEDIMENT CONTROL NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
3. ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.
4. 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.
5. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
6. THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.
7. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:

- ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON EROSIVE 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.

4. THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
5. 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.

6. 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

7. INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
8. STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
9. STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
10. 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.
11. 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.
12. DISTURBED AREA ARE TO BE STABILISED AS SOON AS POSSIBLE ON COMPLETION OF BULK EARTHWORKS. LOTS TO BE STABILISED FOLLOWING RESPREADING OF TOPSOIL.
13. SUPPLEMENTARY ESC MEASURES SHALL BE DIRECTED BY THE SUPERINTENDENT.

MAINTENANCE

1. INSPECT ALL CATCH DRAINS AT LEAST WEEKLY AND AFTER RUNOFF-PRODUCING STORM EVENTS AND REPAIR ANY SLUMPS, BANK DAMAGE. OR LOSS OF FREEBOARD.
2. CLOSELY INSPECT THE OUTER EDGES OF THE ROCK PROTECTION. ENSURE WATER ENTRY INTO THE ROCK -LINED AREA IS NOT CAUSING EROSION ALONG THE EDGE OF THE ROCK PROTECTION.
3. CAREFULLY CHECK THE STABILITY OF THE ROCK LOOKING FOR INDICATIONS OF PIPING, SCOUR HOLES, OR BANK FAILURES.
4. REPLACE OR REPOSITION THE SURFACE ROCK SUCH THAT THE DRAIN FUNCTIONS AS REQUIRED AND THE DRAIN'S REQUIRED HYDRAULIC CAPACITY IS NOT REDUCED.
5. REPLACE ANY DISPLACED ROCK WITH ROCK OF SIGNIFICANTLY (MINIMUM 110%) LARGER SIZE THAN THE DISPLACED ROCK.
6. ENSURE SEDIMENT IS NOT PARTIALLY BLOCKING THE DRAIN. WHERE NECESSARY, REMOVE ANY DEPOSITED MATERIAL TO ALLOW FREE DRAINAGE.
7. DISPOSE OD ANY SEDIMENT OF FILL IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

ROLES AND RESPONSIBILITIES

ROLE	RESPONSIBILITY
PROJECT MANAGER	• OVERALL RESPONSIBILITY OF ESC IMPLEMENTATION • NOTIFY THE ENVIRONMENTAL MANAGER IMMEDIATELY OF ANY NON-COMPLIANCE WITH ESCP • ENSURE THE PROMPT IMPLEMENTATION OF MEASURES TO MITIGATE EROSION AND SEDIMENT GENERATION
SITE SUPERVISOR / FOREMEN	• MONITOR DAILY RAINFALL • NOTIFY ENVIRONMENTAL ADVISOR/CONSULTANT WHEN RUNOFF GENERATING RAINFALL OCCURS IN THE PREVIOUS 24 HOURS • MAINTAIN CURRENT RECORDS OF RAINFALL, STORAGE VOLUMES, WATER QUALITY, TREATMENT PRACTICES, DISCHARGE VOLUMES (AS APPROPRIATE) • INSTALLATION AND MAINTENANCE OF ESC
ENVIRONMENTAL MANAGER	• PROVIDE DESIGN INFORMATION AS REQUIRED • CONDUCT IN-SITU MONITORING (AS REQUIRED) • COLLECT AND SUBMIT SAMPLES TO LABORATORY (AS REQUIRED) • COLLATE RESULTS AND PREPARE REPORTS (AS REQUIRED) • CONDUCT SITE INSPECTIONS AN AUDITS (AS REQUIRED) • INSPECT ESC INSTALLATION AND MAINTENANCE • INSPECT OFFSITE IMPACTS AND MANAGEMENT • PROVIDE ADVICE REGARDING ESC SITE IMPROVEMENT (AS REQUIRED)
ALL PERSONNEL	• 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

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 FORM 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.

T. CLARK (CPESC #6089)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	NVT	PB

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SCALE
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC QLD PTY LTD
PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB CODE MIR-1002
SHEET NUMBER C710
REV B

DRAIN CALCULATION TABLE

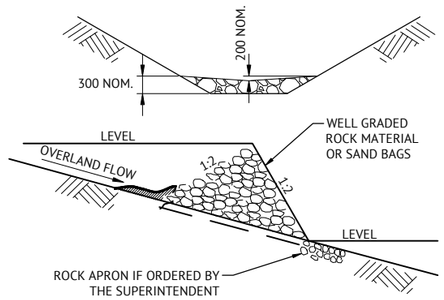
DRAIN ID	CATCH AREA (HA)	ARI	C_{ARI}	TIME OF CONC (MINS)	I_{ARI}	FLOW - Q (m^3/s)	LONG. SLOPE (m/m)	BASE WIDTH	SIDE SLOPE 1 (1 in x)	SIDE SLOPE 2 (1 in x)	LINING	MANNING ROUGH COEFF	MAX PERM VEL (m/s)	DESIGN VEL (m/s)	DEPTH OF FLOW (m)	DEPTH WITH F/BOARD (m)	DRAIN TOP WIDTH (m)
DWD-01	1.81	2	0.6	10	105	0.32	0.02	0.6	2	2	Vital HR - 2L/m2	0.02	2.5	1.77	0.18	0.33	1.94
DWD-02	3.66	2	0.6	12	96	0.59	0.01	0.6	2	2	Vital HR - 2L/m2	0.02	2.5	1.63	0.30	0.45	2.40

DRAIN SIZING SUMMARY TABLE

DRAIN ID	MINIMUM DEPTH (m)	BASE WIDTH (m)	BATTER SLOPE (1 IN...)	TEMPORARY DRAIN LINING
DWD-01	0.40	0.60	2.0	VITAL HR (OR EQUIVALENT) APPLIED AT A MINIMUM 20% DILLUTION (2L OF POLYMER PER 1 SQM OF DRAINAGE SWALE). ALTERNATIVELY VITAL STONEWALL (OR EQUIVALENT) APPLIED AT A MINIMUM 40% DILLUTION (4L OF POLYMER PER 1 SQM OF DRAINAGE SWALE).
DWD-02	0.50	0.60	2.0	

NOTES:

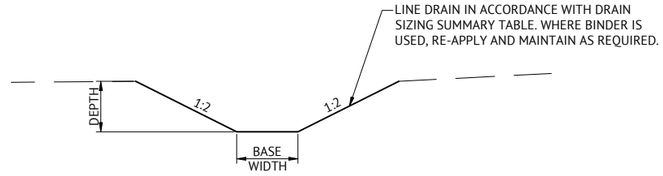
1. DRAIN SIZING FOR PRECINCT 10.2 (I.E. DWD-01 AND DWD-02) DOES NOT INCLUDE CATCHMENTS FOR PRECINCT 10.1. IF DRAINAGE IS NOT IMPLEMENTED PER MIR-1001 DRAIN SIZING WILL NEED TO BE REVIEWED PRIOR TO COMMENCING WORKS.
2. DRAIN SIZING (INCLUDING DEPTH NOMINATED ABOVE) DOES NOT ACCOUNT FOR INSTALLATION OF CHECK DAMS. THE NOMINATED DRAIN LINING IS BASED ON CALCULATED VELOCITIES AND IS SUFFICIENT TO FUNCTION IN A NON-EROSIVE MANNER WITHOUT CHECK DAMS. IF CHECK DAMS ARE TO BE INSTALLED, DRAIN DIMENSIONS ARE TO BE INCREASED TO PROVIDE A MINIMUM ADDITIONAL 0.3m DEPTH.



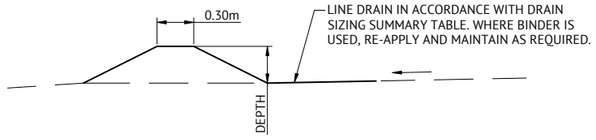
CHECK DAM - TYPICAL DETAIL
NTS

CHECK DAM SPACING - (WHERE ORDERED)

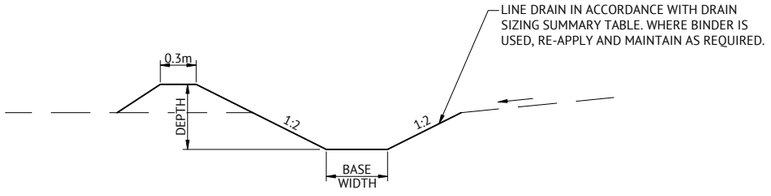
SWALE GRADE (%)	SPACING INTERVAL (m)				
	200mm HIGH	300mm HIGH	400mm HIGH	500mm HIGH	600mm HIGH
0.5	40	60	80	100	120
1.0	20	30	40	50	60
2.0	10	15	20	25	30
3.0	6.7	10	13	17	20
4.0	5.0	7.5	10	13	15
5.0	4.0	6.0	8.0	10	12
10.0	2.0	3.0	4.0	5.0	6.0
15.0	1.3	2.0	2.7	3.3	4.0



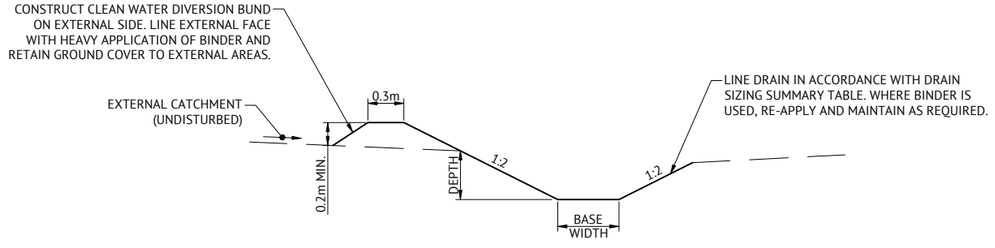
TYPICAL CROSS SECTION
SWALE DRAIN
N.T.S.



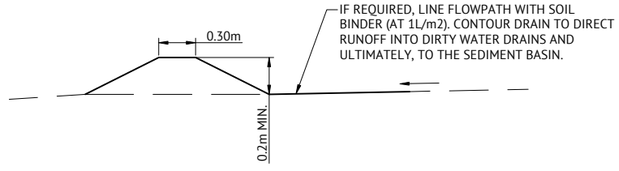
TYPICAL CROSS SECTION
BUND DRAIN
N.T.S.



TYPICAL CROSS SECTION
COMBINATION DRAIN
N.T.S.



TYPICAL CROSS SECTION
SWALE DRAIN WITH EXTERNAL DIVERSION
N.T.S.



TYPICAL CROSS SECTION
CONTOUR DRAIN
N.T.S.

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

T. CLARK (CPESC #6089)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
07/12/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
09/05/2023	A	ISSUED FOR APPROVAL	NVT	PB
		REVISIONS	REC	APP

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PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY RPEQ 7112
SCALE
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EROSION AND SEDIMENT CONTROL DRAIN DETAILS

JOB CODE: MIR-1002
SHEET NUMBER: C720
REV: B

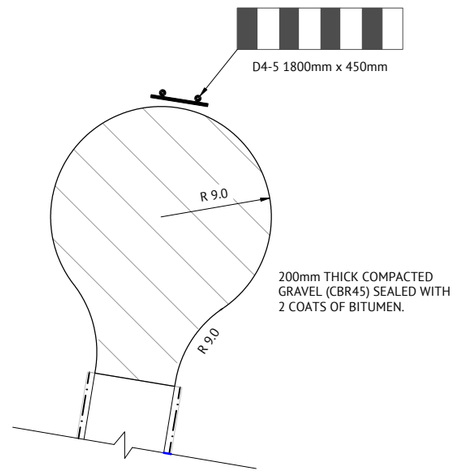
LAYOUT PLAN
SCALE 1:500

LEGEND

LOT BOUNDARIES
STAGE BOUNDARIES

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

FOR CONSTRUCTION

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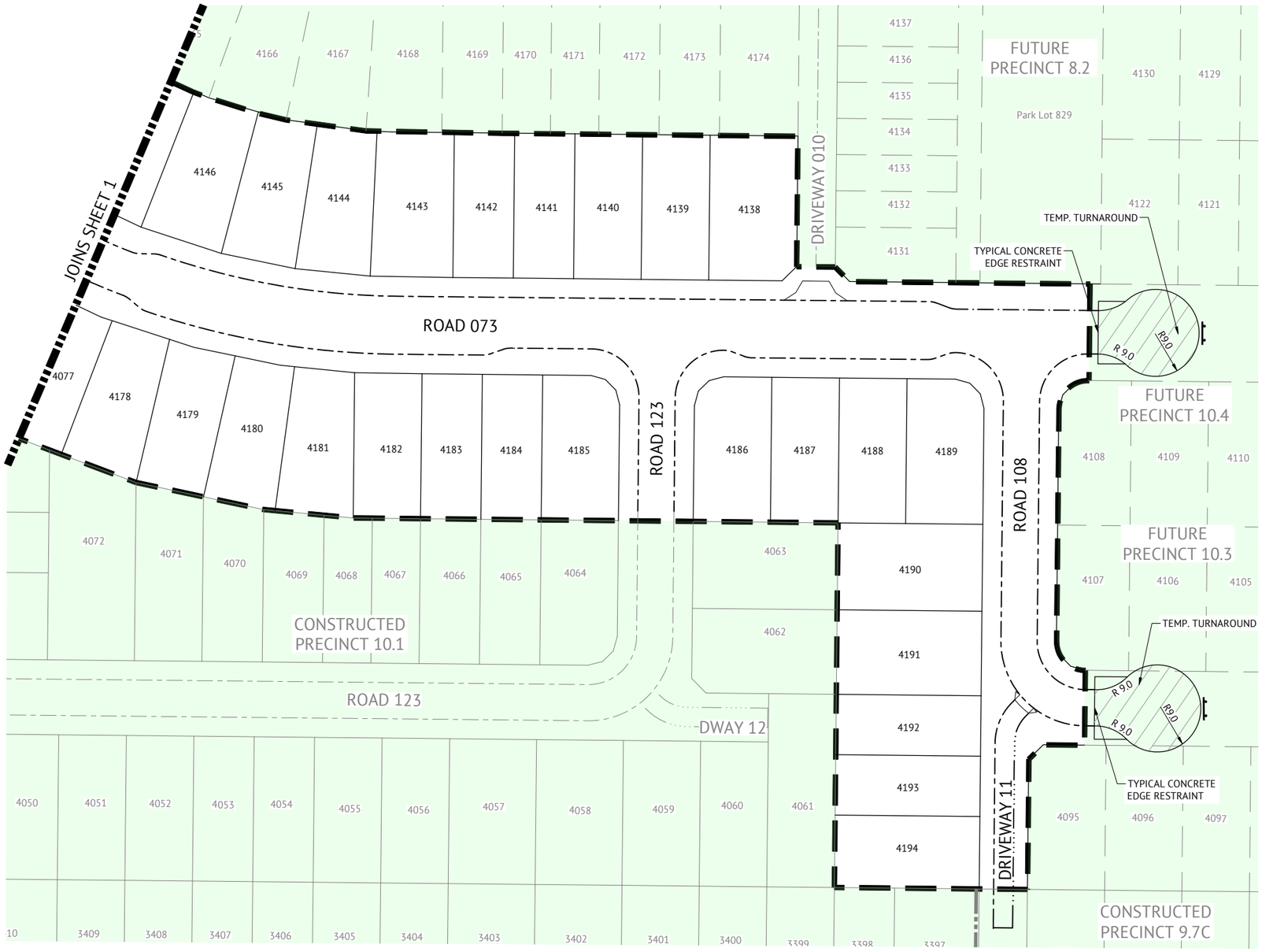
SCALE: 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1

JOB CODE: MIR-1002
SHEET NUMBER: C900
REV: B



LAYOUT PLAN
SCALE 1:500

LEGEND

LOT BOUNDARIES

STAGE BOUNDARIES

NOTE

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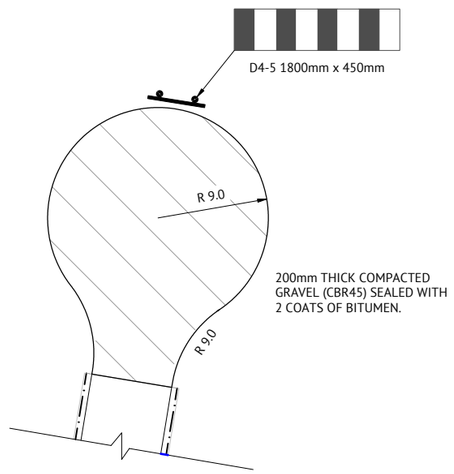

TYPICAL TEMPORARY TURN AROUND DETAIL
SCALE 1:250

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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PROJECT EVERLEIGH PRECINCT 10.2 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

JOB CODE MIR-1002
SHEET NUMBER C901
REV B