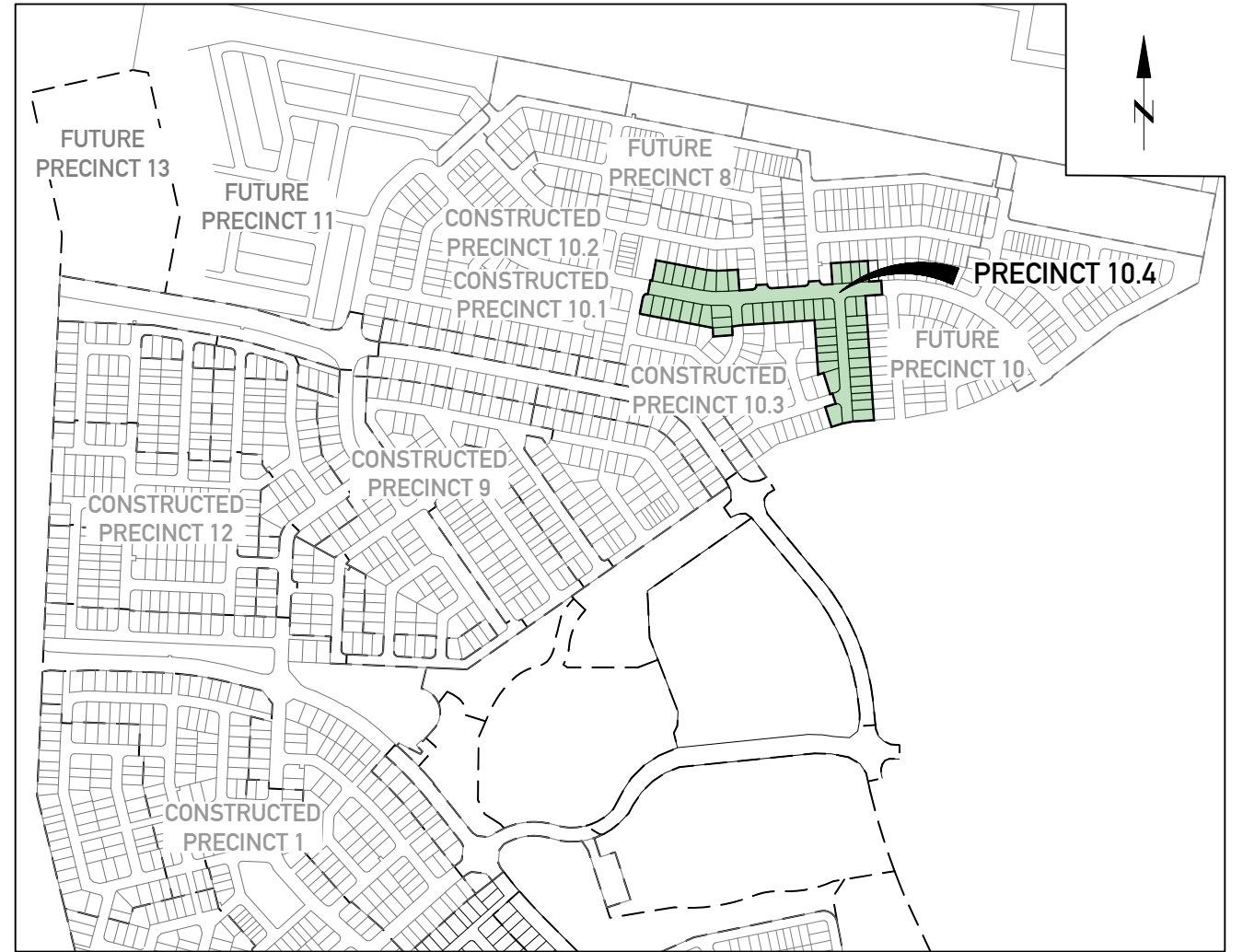


EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD



LOCALITY PLAN
Scale 1:5000



SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
SHEET NUMBER	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
C102	ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 3
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
C230	RETAINING WALL SUBSOIL DRAINAGE PLAN - SHEET 1
C231	RETAINING WALL SUBSOIL DRAINAGE PLAN - SHEET 2
C300	ROADWORKS NOTES AND DETAILS
C310	ROAD LONG 73 SECTION
C311	ROAD 73 CROSS SECTIONS - SHEET 1
C312	ROAD 73 CROSS SECTIONS - SHEET 2
C313	ROAD LONG 104 SECTION
C314	ROAD 104 CROSS SECTIONS
C315	ROAD 108 LONG AND CROSS SECTIONS
C316	ROAD 110 LONG AND CROSS SECTIONS
C317	ROAD 115 LONG AND CROSS SECTIONS
C318	ROAD 117 LONG AND CROSS SECTIONS
C320	INTERSECTION DETAILS LAYOUT
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
C412	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3
C413	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4
C414	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1
C431	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2
C432	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 3
C433	STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 4
C440	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 1
C441	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 2
C442	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 3
C443	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 4
C444	STORMWATER CALCULATIONS 39% AEP STORM - SHEET 5
C445	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1
C446	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 2
C447	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 3
C448	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 4
C449	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 5
C450	STORMWATER CALCULATIONS 1% AEP STORM - SHEET 6
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C512	SEWERAGE LAYOUT PLAN - SHEET 3
C513	SEWERAGE LAYOUT PLAN - SHEET 4
C520	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 1
C521	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 2
C522	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 3
C523	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 4
C524	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 5
C525	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 6
C526	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 7
C527	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 8
C528	SEWERAGE RISING MAIN LONG SECTIONS - SHEET 1
C529	SEWERAGE RISING MAIN LONG SECTIONS - SHEET 2

C530	SEWERAGE NOTES AND DETAILS
C540	TEMPORARY ACCESS TRACK TO SEWER PUMP STATION
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1
C611	WATER RETICULATION LAYOUT PLAN - SHEET 2
C612	WATER RETICULATION LAYOUT PLAN - SHEET 3
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

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

NOISE

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

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

PRE-CONSTRUCTION & APPROVALS

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

WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

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

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
01/05/2024	B	ISSUED FOR CONSTRUCTION	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB

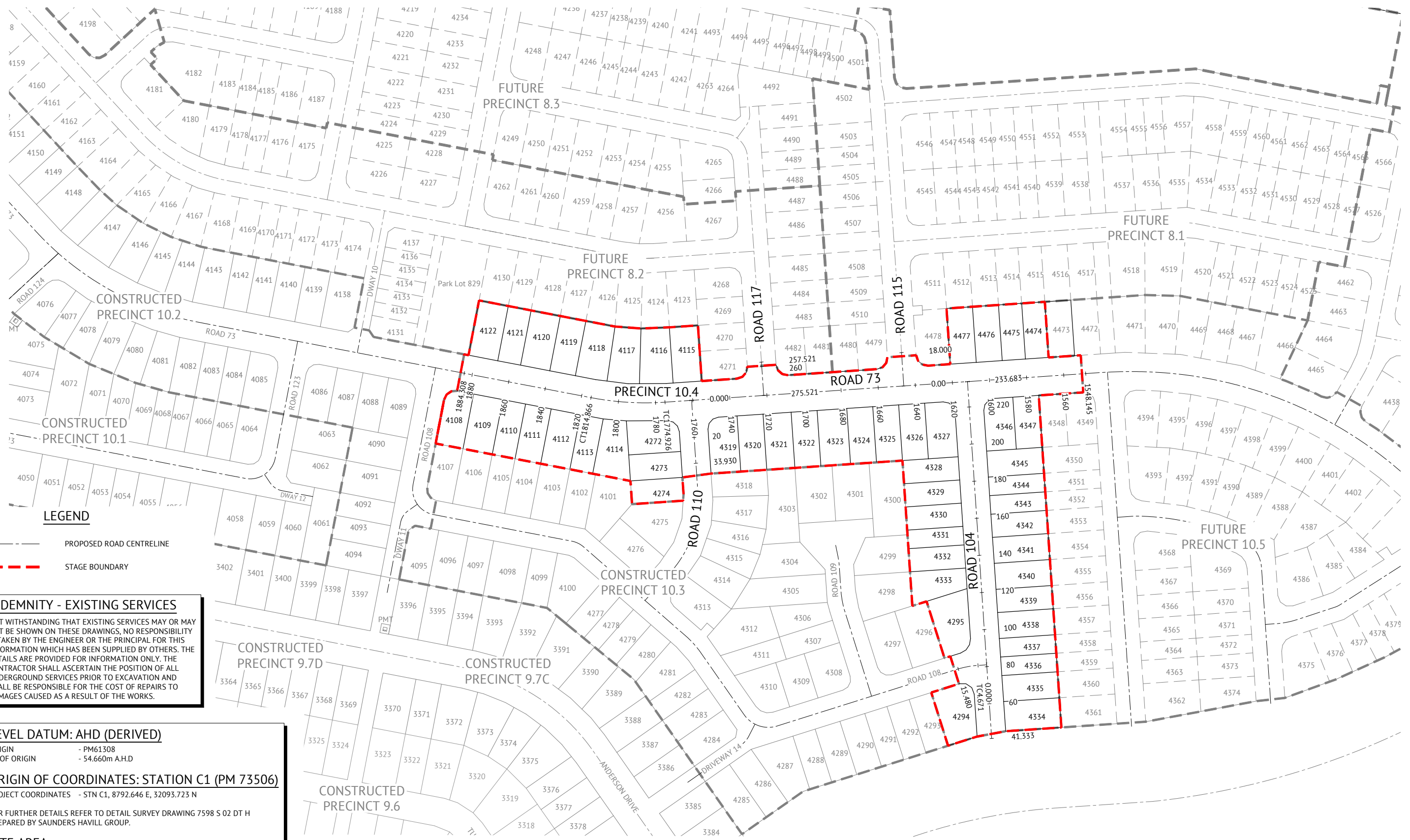
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KLYNT KIWANG
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ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
COVER SHEET

JOB CODE
MIR-1004
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

32,770m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

LAYOUT PLAN

SCALE 1:1000

FOR CONSTRUCTION

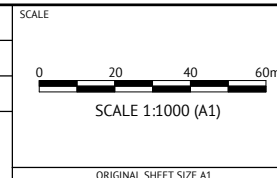
DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB



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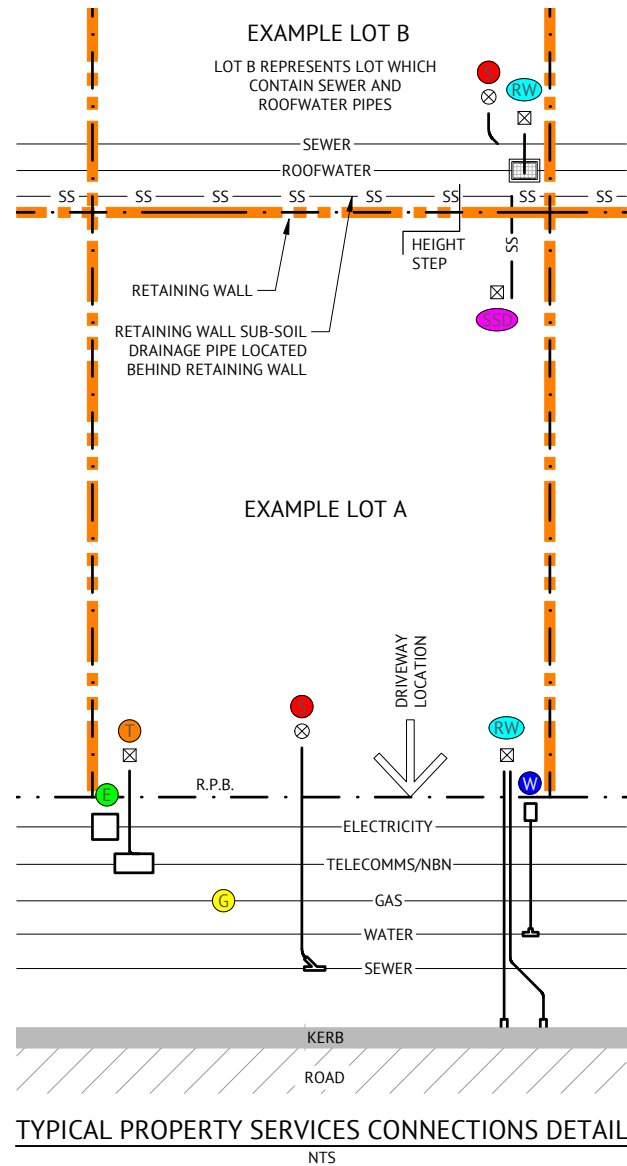
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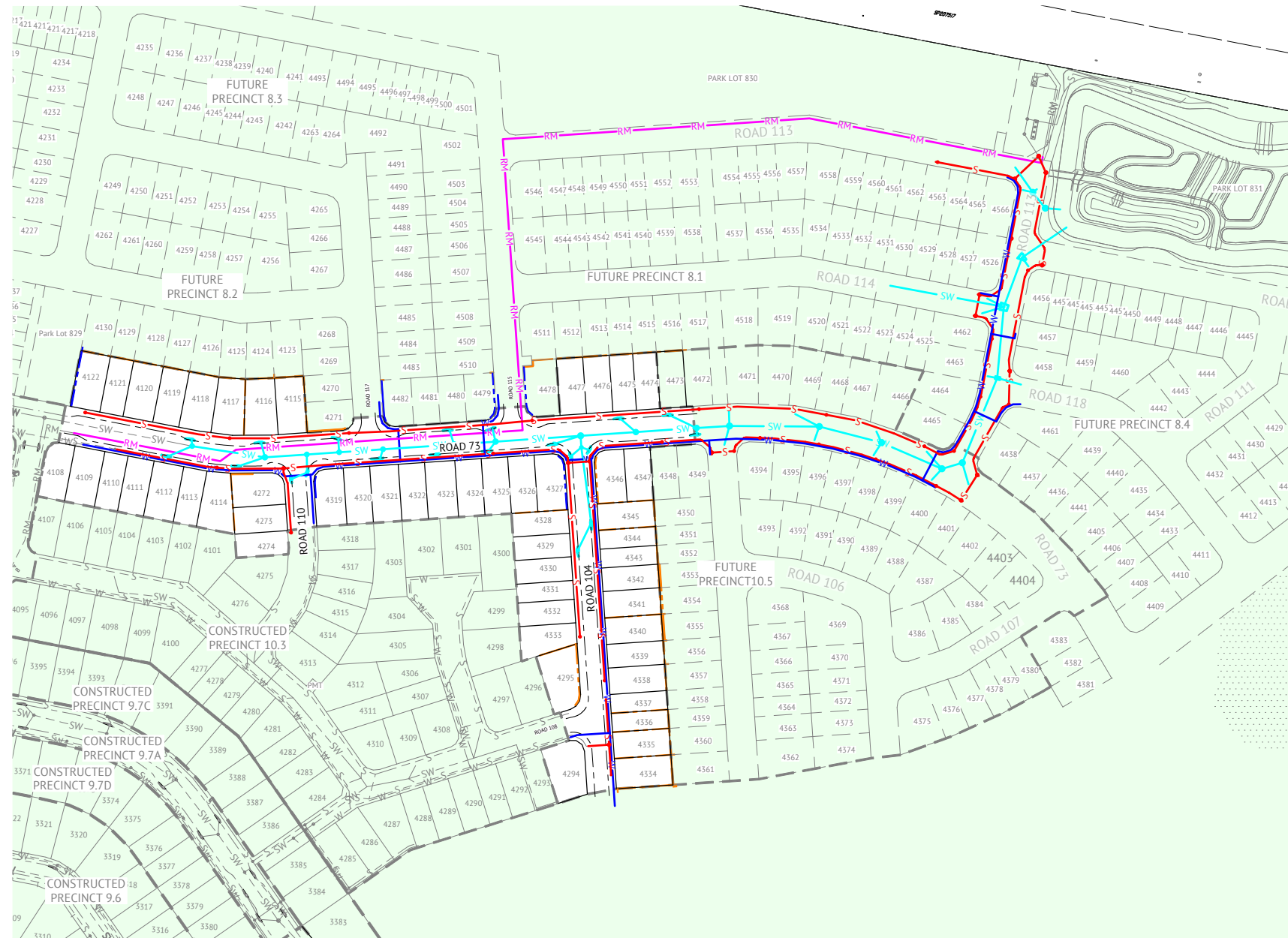
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 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SURVEY SETOUT PLAN

JOB CODE
MIR-1004
 SHEET NUMBER
C002
 REV
B



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 UNLESS REAR WALL CAN BE DISCHARGED THROUGH THE SUBSOIL ON A SIDE BOUNDARY ON THE LOW SIDE. 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".
 - **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 1:1500

LEGEND - PROPOSED

- — — — — SW STORMWATER
- — — — — W WATER
- — — — — S GRAVITY SEWER
- — — — — RM SEWER RISING MAIN

LEGEND - CONSTRUCTED

- - - - - SW STORMWATER
- - - - - S GRAVITY SEWER
- - - - - W WATER
- - - - - RM SEWER RISING MAIN

LEGEND - FUTURE

- — — — — S GRAVITY SEWER
- — — — — RM SEWER RISING MAIN

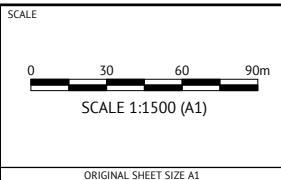
FOR CONSTRUCTION

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				REC	APP



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PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
OVERALL SERVICES LAYOUT

JOB CODE
MIR-1004

SHEET NUMBER
C003

REV
B

DESIGN HAZARD NOTES:

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

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

CONSTRUCTION HAZARD NOTES:

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

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

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

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

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

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

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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KLYNT KIWANG

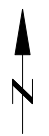
CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PKB
PATRICK BRADY

RPEQ 7112

CLIENT	MIRVAC QLD PTY LTD	JOB CODE	MIR-1004
PROJECT	EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C004
LOCATION	TEVIOT ROAD, GREENBANK	REV	B
SHEET TITLE	SAFETY IN DESIGN	ORIGINAL SHEET SIZE A1	

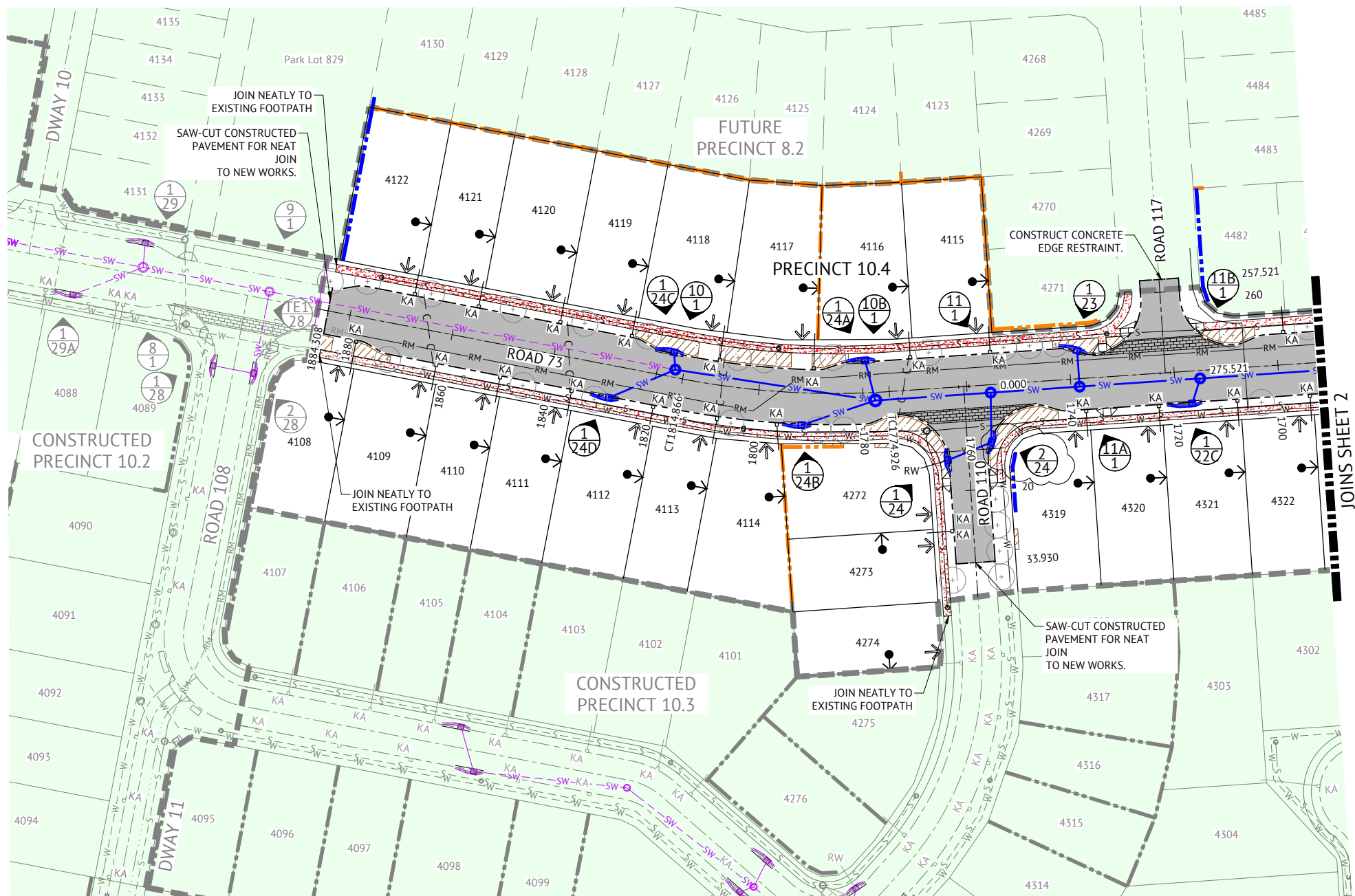


LEGEND - PROPOSED

- 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 KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED WATER CONDUIT
- PROPOSED SEWER RISING MAIN
- STAGE BOUNDARY
- DURATHEN THRESHOLD TREATMENT. REFER TO URBSIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.
- PROPOSED LANDSCAPING. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
- TREES

LEGEND - CONSTRUCTED

- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
- ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
- STORMWATER
- SEWER
- SEWER RISING MAIN
- WATER
- RETAINING WALL
- STORMWATER STRUCTURE No.



LAYOUT PLAN
SCALE 1:500

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	REVISIONS
01/03/2024	B	MOVED SAG GULLY	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
			REC APP

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


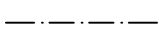
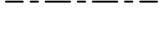


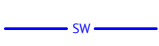


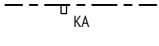
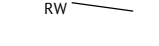


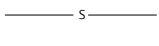
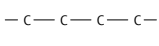








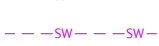
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SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1

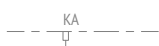


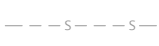




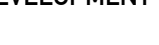
JOB CODE
MIR-1004
SHEET NUMBER
C100
REV
B



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 KERB RAMP. REFER IPWEA STD DWG RS-090.
-  PROPOSED STORMWATER
-  PROPOSED STORMWATER STRUCTURE No.
-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
-  PROPOSED CONCRETE SLEEPER RETAINING WALL
-  PROPOSED CONCRETE PANEL RETAINING WALL
-  ZERO LOT BOUNDARY
-  PROPOSED FUTURE DRIVEWAY LOCATION
-  PROPOSED SEWER
-  PROPOSED WATER
-  PROPOSED WATER CONDUIT
-  PROPOSED SEWER RISING MAIN
-  STAGE BOUNDARY
-  DURATHEN THRESHOLD TREATMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.
-  PROPOSED LANDSCAPING. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
-  TREES

LEGEND - CONSTRUCTED

-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
-  STORMWATER
-  SEWER
-  SEWER RISING MAIN
-  WATER
-  RETAINING WALL
-  STORMWATER STRUCTURE No.

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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.

LAYOUT PLAN
 SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

Premise
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 LEVEL 11, 300 ADELAIDE STREET
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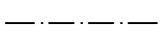
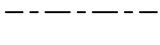
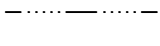


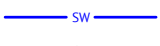

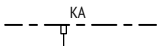
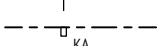
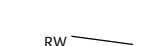


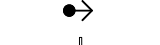
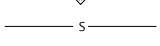
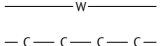
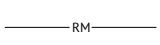






DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

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




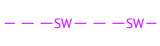
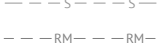




CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

JOB CODE
 MIR-1004
 SHEET NUMBER
 C101
 REV
 B

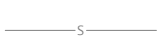
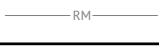
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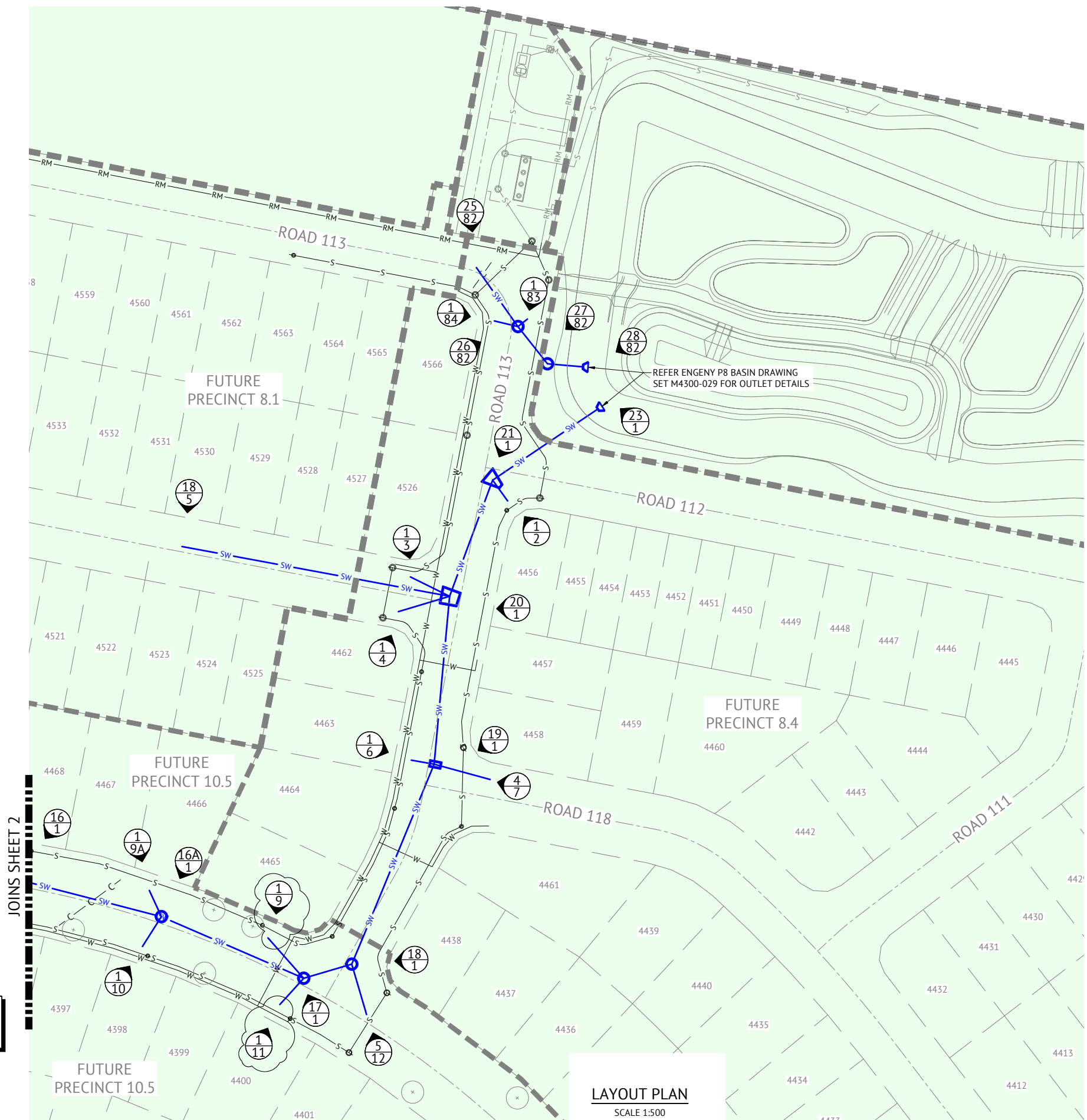
-  PAVEMENT
-  PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
-  PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
-  PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
-  PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
-  PROPOSED STORMWATER
-  PROPOSED STORMWATER STRUCTURE No.
-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  PROPOSED ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
-  PROPOSED CONCRETE SLEEPER RETAINING WALL
-  PROPOSED CONCRETE PANEL RETAINING WALL
-  ZERO LOT BOUNDARY
-  PROPOSED FUTURE DRIVEWAY LOCATION
-  PROPOSED SEWER
-  PROPOSED WATER
-  PROPOSED WATER CONDUIT
-  PROPOSED SEWER RISING MAIN
-  STAGE BOUNDARY
-  DURATHEM THRESHOLD TREATMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.
-  PROPOSED LANDSCAPING. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
-  TREES

LEGEND - CONSTRUCTED

-  ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C420.
-  ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C420.
-  ROOFWATER HOUSE CONNECTION (150 Ø uPVC)
-  STORMWATER
-  SEWER
-  SEWER RISING MAIN
-  WATER
-  RETAINING WALL
-  STORMWATER STRUCTURE No.

LEGEND - FUTURE

-  GRAVITY SEWER
-  SEWER RISING MAIN



LAYOUT PLAN
SCALE 1:500

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.

JOINS SHEET 2

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	MOVED PIPE ENDS	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
			REC APP

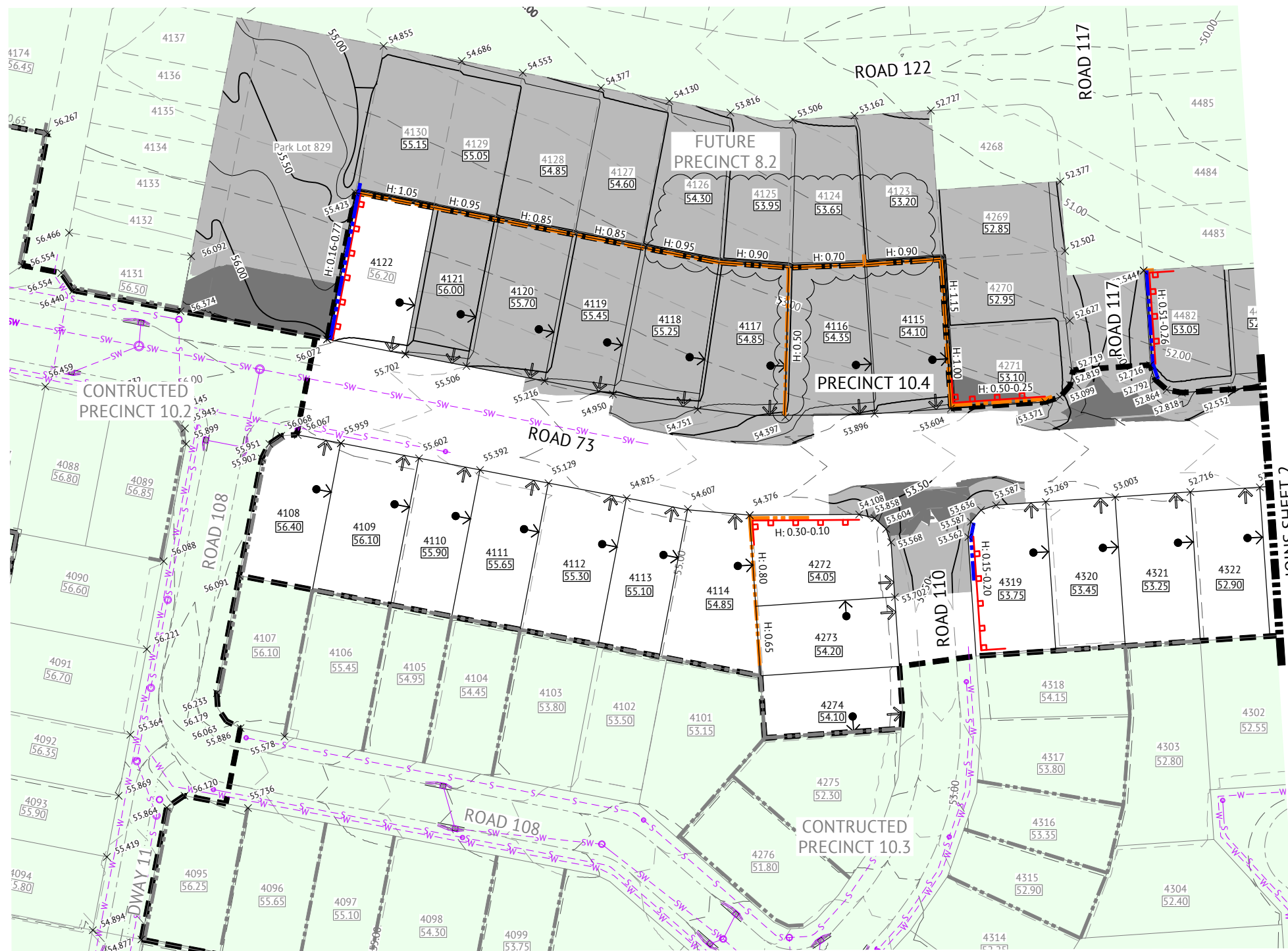
Premise
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BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 3

JOB CODE
MIR-1004
SHEET NUMBER
C102
REV
B



LEGEND - PROPOSED

- NO CHANGES TO BULK EARTHWORKS. EARTHWORKS DONE AS PART OF PRECINCTS 9, 10.1, 10.2 & 10.3 WORKS
- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.25m)
- FINISHED SURFACE LEVEL
- PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE BY LANDSCAPER
- FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- CONTOURS (0.50m)
- STORMWATER
- SEWER
- WATER

LAYOUT PLAN
SCALE 1:500

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 4108-4114, 4272-4274, 4294-4295, 4319-4333 & 4334-4337 COMPLETED AS PART OF PRECINCT 9, 10.1, 10.2 & 10.3 WORKS.

FOR CONSTRUCTION

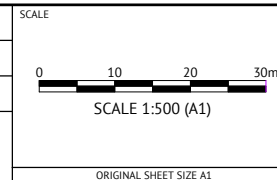
DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	AMENDED PAD LEVELS AND RETAINING WALL HEIGHTS. ADDED RETAINING WALL BET 4116/4117		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP



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DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - SHEET 1

JOB CODE
MIR-1004
SHEET NUMBER
C200
REV
B



LEGEND - PROPOSED

- NO CHANGES TO BULK EARTHWORKS. EARTHWORKS DONE AS PART OF PRECINCTS 9, 10.1, 10.2 & 10.3 WORKS
- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (1.00m)
- FINISHED MINOR CONTOURS (0.25m)
- 51.65 FINISHED SURFACE LEVEL
- PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE BY LANDSCAPER
- 58.25 x FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- ↓ PROPOSED FUTURE DRIVEWAY LOCATION
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- CONTOURS (0.50m)
- STORMWATER
- SEWER
- WATER

EARTHWORKS FOR LOTS 4108-4114, 4272-4274, 4294-4295, 4319-4333 & 4334-4337 COMPLETED AS PART OF PRECINCT 9, 10.1, 10.2 & 10.3 WORKS.

LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	AMENDED EARTHWORKS AND RETAINING WALL HEIGHT, ADDED SUBSOIL OUTLET	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

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PROJECT DIRECTOR
PKB
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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 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN - SHEET 2

JOB CODE
MIR-1004
SHEET NUMBER
C201
REV
B

NOTES

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

TESTING

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

EARTHWORKS TESTING

- COMPACTION TESTS

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

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

DUST

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

FILL MANAGEMENT

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

TOPSOIL RESPREAD REQUIREMENTS

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

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

TURF

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

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

TRENCH SPOIL

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

TRENCH BACKFILL

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

EXCAVATION IN ROCK

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

EVERLEIGH EARTHWORKS TOLERANCE TABLE

ITEM	TOLERANCE
EARTHWORKS IN ALLOTMENTS AND VERGES ^(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

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

DISPERSIVE SOILS MANAGEMENT NOTES

- GYPHUM 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.
- 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.
- 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
- 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/m³ OF TOPSOIL)
- DOLOMITE (15kg/m³ OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m³ OF TOPSOIL)
- FERTILISER (0.4kg/m³ OF TOPSOIL)

B-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- DOLOMITE (15kg/m³ OF TOPSOIL)
- GRANULAR WETTING AGENT (0.5kg/m³ OF TOPSOIL)
- FERTILISER (0.4kg/m³ OF TOPSOIL)

ROCK TREATMENT IN ALLOTMENTS

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

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

ROCK TREATMENT IN VERGES

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

EARTHWORKS SPECIFICATION

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

NOTES:

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

KEY OUTCOMES FOR EARTHWORKS OPERATIONS

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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SCALE

ORIGINAL SHEET SIZE A1

CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

BULK EARTHWORKS NOTES AND DETAILS - SHEET 1

JOB CODE

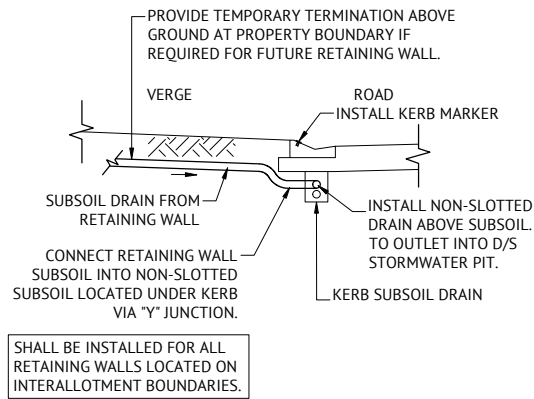
MIR-1004

SHEET NUMBER

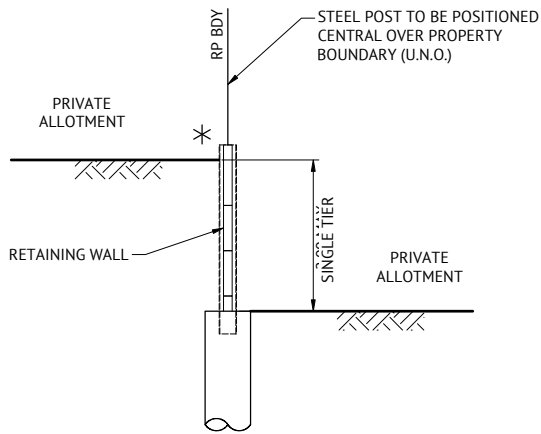
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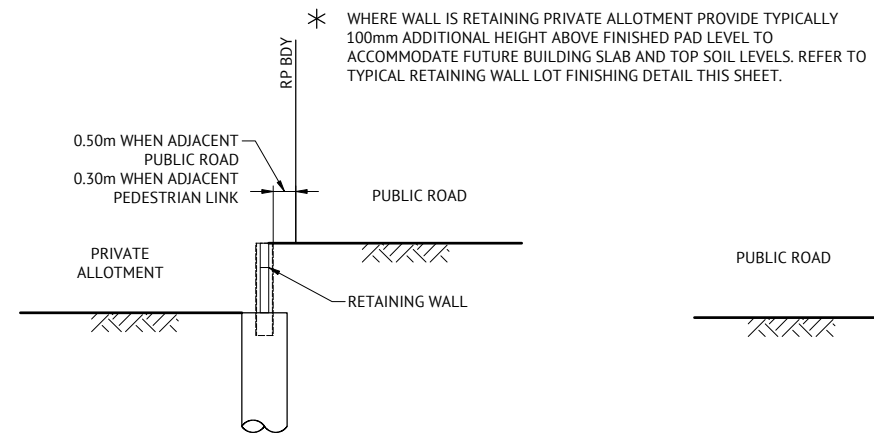
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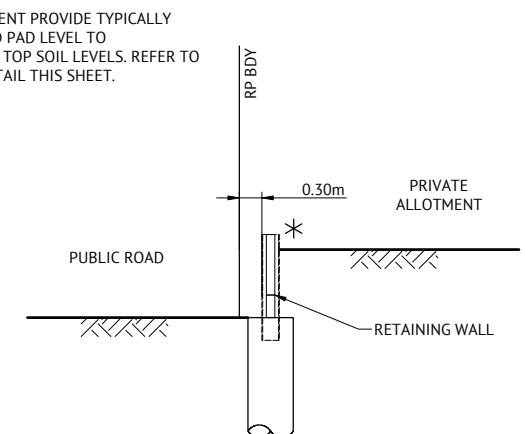
**TYPICAL RETAINING WALL SUBSOIL
OUTLET TO ROAD**
N.T.S.



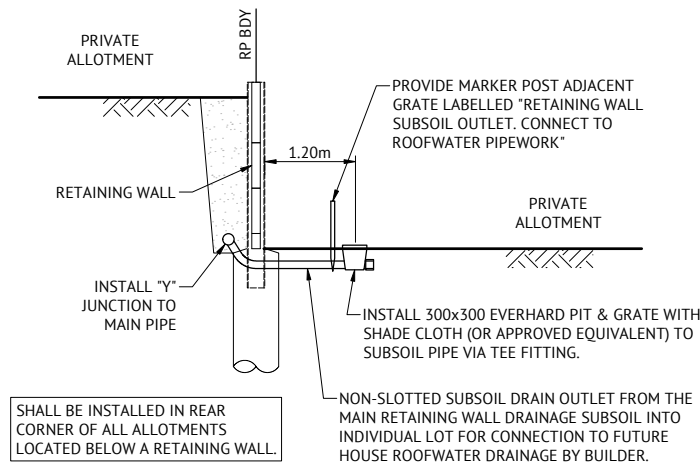
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
0.4m-2m MAX HIGH
N.T.S.



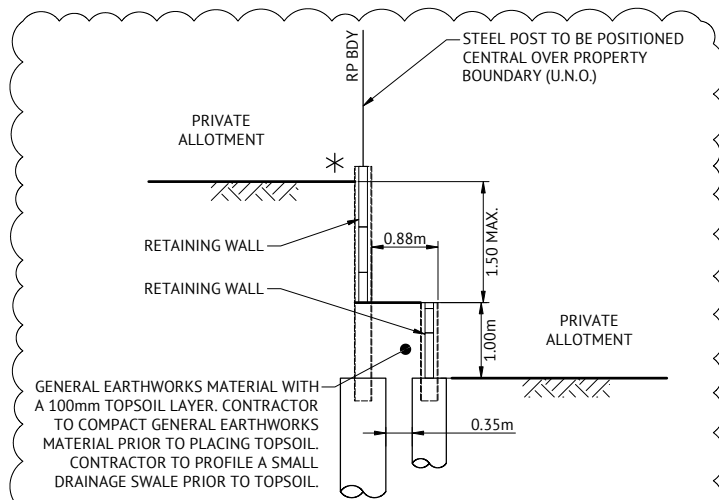
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER
N.T.S.



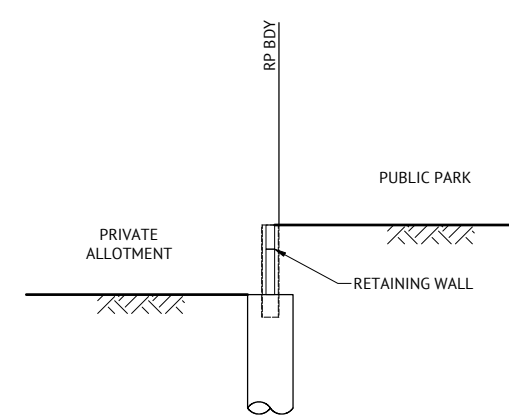
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



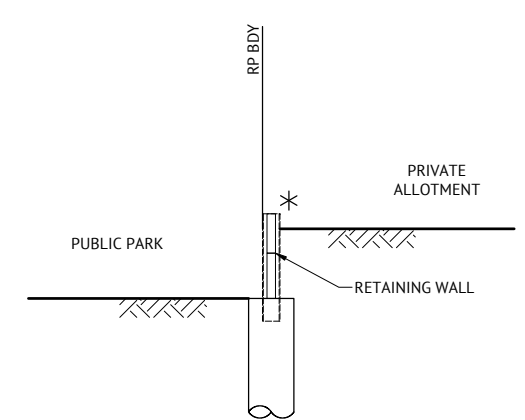
**TYPICAL RETAINING WALL SUBSOIL
OUTLET TO ALLOTMENTS**
N.T.S.



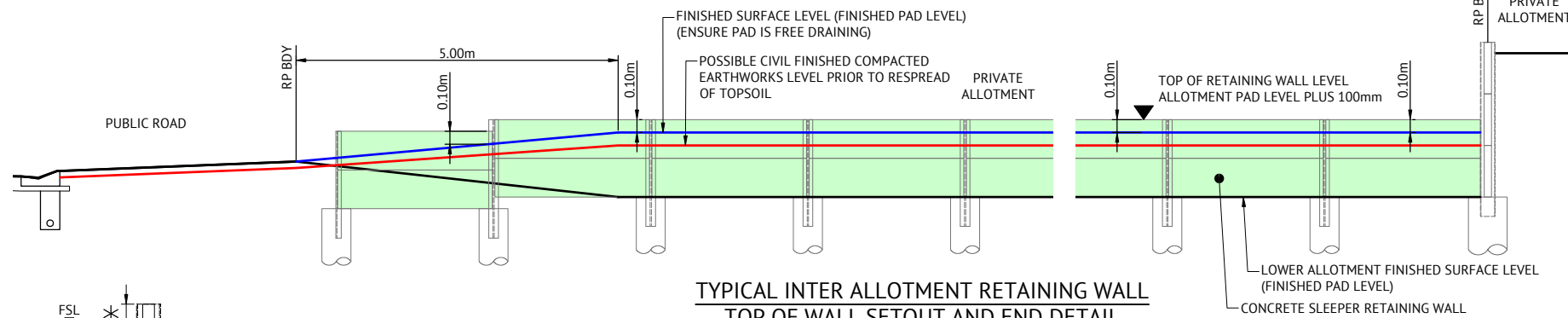
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
2m-2.5m MAX HIGH
N.T.S.



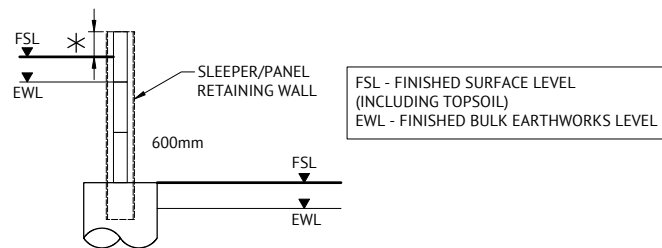
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER
N.T.S.



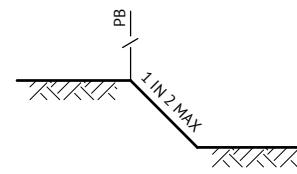
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



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



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



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

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).

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 ENCRUCH INTO THE PMT SITE (AS PER RETAINING WALLS LOCATED ADJACENT ROAD RESERVES DETAIL) UNLESS THE RETAINING WALL SPECIFIED IS AN ENERGEX STANDARD MASONRY WALL.
- RETAINING WALL DESIGN SHALL CONSIDER ENERGEX REQUIREMENT WHERE RETAINING WALLS ARE LOCATED WITHIN 2m OF PMT SITE.

RETAINING WALL TYPE

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

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

FENCE BRACKETS

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

**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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	C	ISSUED FOR CONSTRUCTION	KK	PB
30/01/2024	B	UPDATED RETAINING WALL DETAIL	AL	PB
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PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE
NTS

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

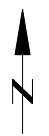
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS - SHEET 2

JOB CODE
MIR-1004

SHEET NUMBER
C211

REV
C



LEGEND - PROPOSED

- NO CHANGES TO BULK EARTHWORKS. EARTHWORKS DONE AS PART OF PRECINCTS 9, 10.1, 10.2 & 10.3 WORKS
- 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.



LAYOUT PLAN
SCALE 1:750

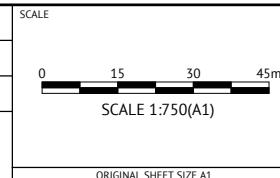
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP



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
(Signature)
PATRICK BRADY RPEQ 7112



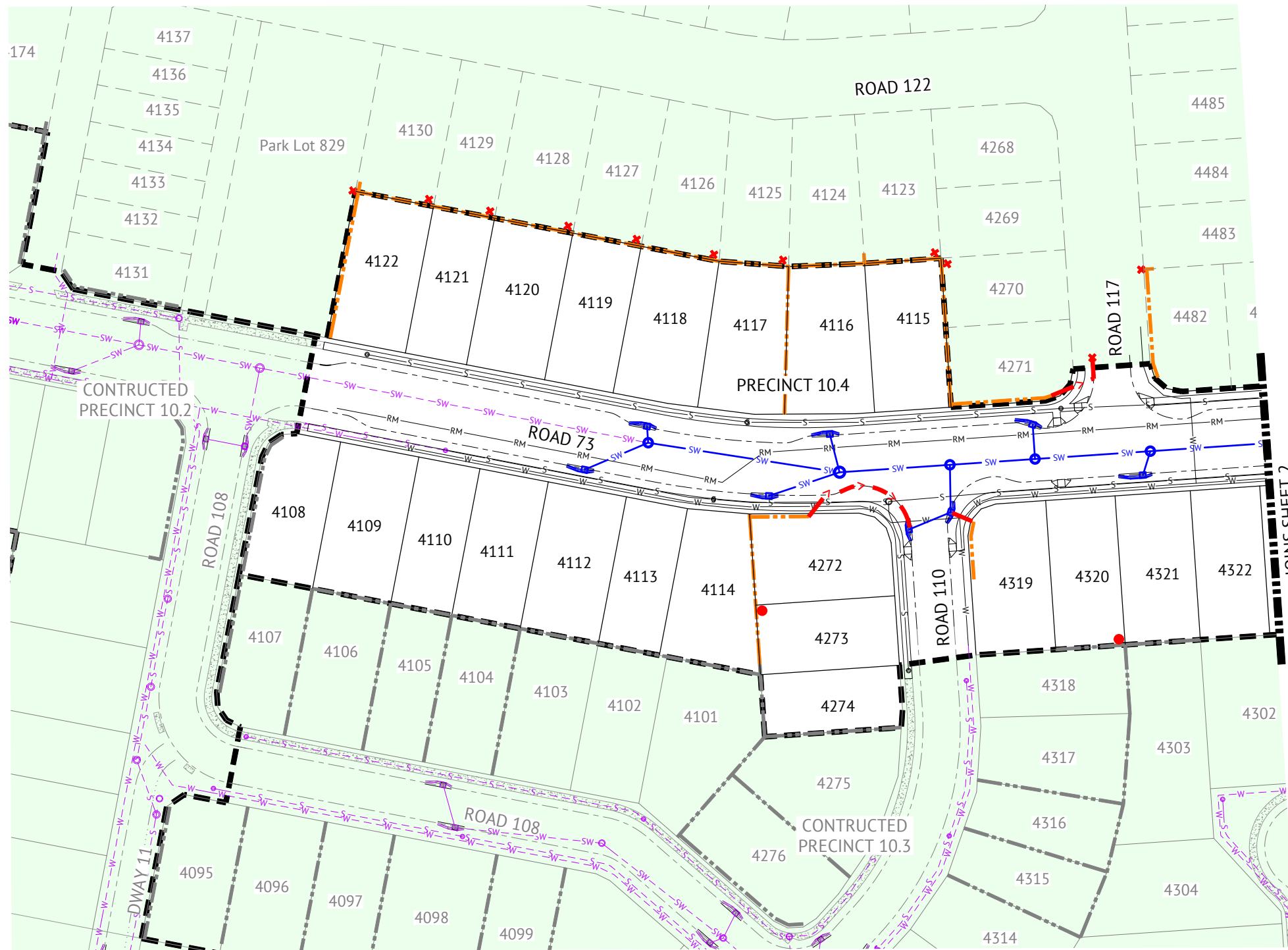
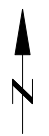
CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS

JOB CODE	
MIR-1004	
SHEET NUMBER	REV
C220	B



LEGEND - PROPOSED

- PROPOSED RETAINING WALL SUBSOIL DRAINAGE
- PROPOSED STORMWATER
- RETAINING WALL SUBSOIL OUTLET TO ALLOTMENT REFER DRAWING C211 FOR TYPICAL DETAILS
- RETAINING WALL SUBSOIL STUB
- PROPOSED RETAINING WALL
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED SEWER RISING
- STAGE BOUNDARY

LEGEND - CONSTRUCTED

- RETAINING WALL
- STORMWATER
- SEWER
- WATER

LAYOUT PLAN
SCALE 1:500

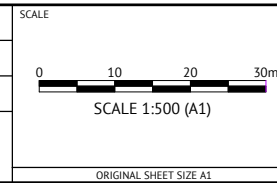
FOR CONSTRUCTION



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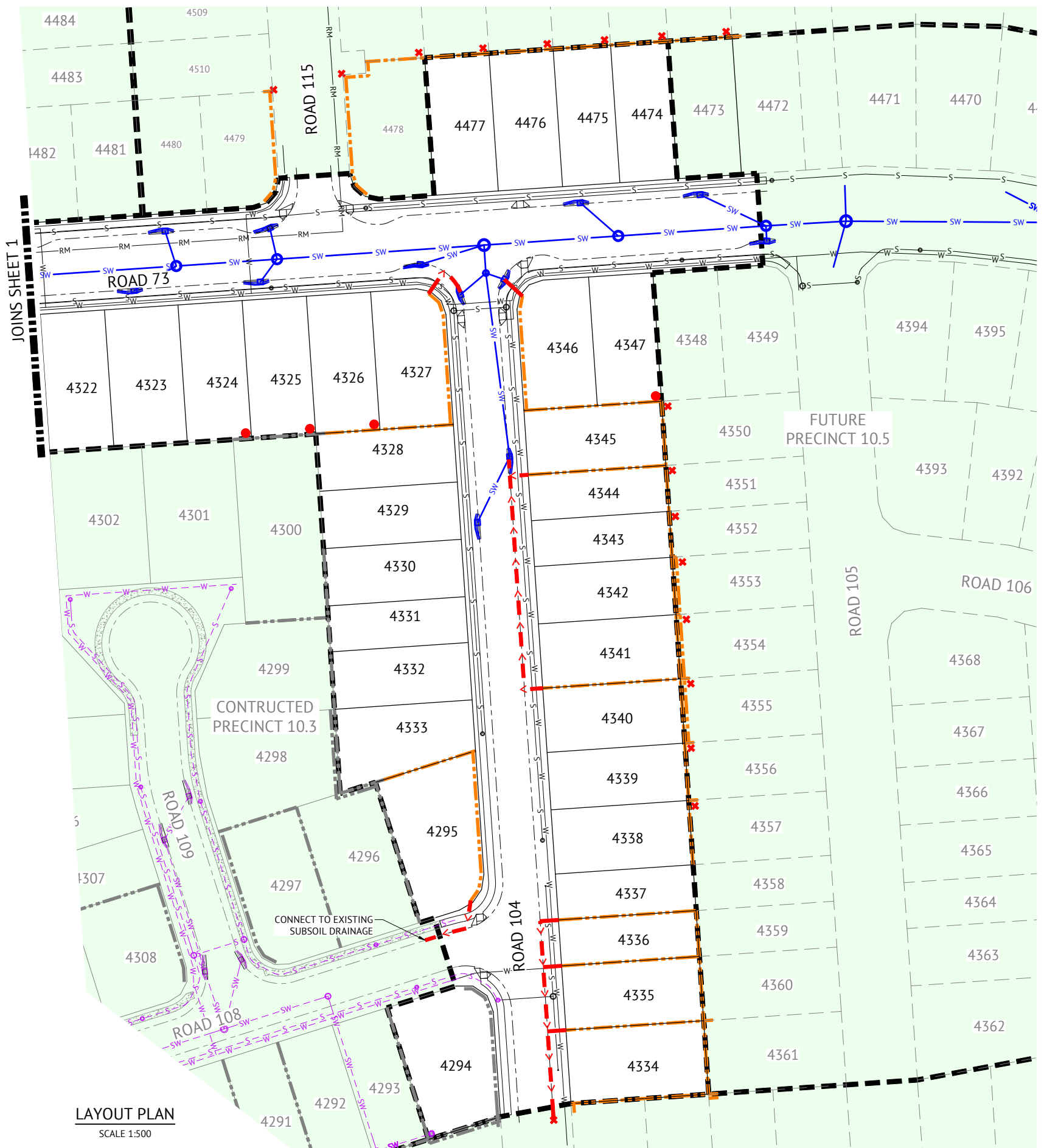


CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
RETAINING WALL SUBSOIL DRAINAGE PLAN - SHEET 1

JOB CODE
MIR-1004
SHEET NUMBER
C230
REV
A

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	A	ISSUED FOR CONSTRUCTION	KK	PB
			REC	APP

REVISIONS

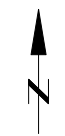


LEGEND - PROPOSED

- > > > — PROPOSED RETAINING WALL SUBSOIL DRAINAGE
- SW — PROPOSED STORMWATER
- RETAINING WALL SUBSOIL OUTLET TO ALLOTMENT REFER DRAWING C211 FOR TYPICAL DETAILS
- ✖ RETAINING WALL SUBSOIL STUB
- - - - - PROPOSED RETAINING WALL
- S — PROPOSED SEWER
- W — PROPOSED WATER
- RM — PROPOSED SEWER RISING
- - - - - STAGE BOUNDARY

LEGEND - CONSTRUCTED

- - - - - RETAINING WALL
- - - SW - - - STORMWATER
- - - S - - - SEWER
- - - W - - - WATER



JOINS SHEET 1

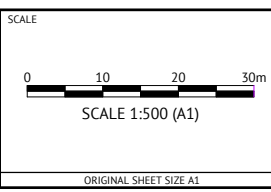
LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION



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PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
RETAINING WALL SUBSOIL DRAINAGE PLAN - SHEET 2

JOB CODE MIR-1004	
SHEET NUMBER C231	REV A

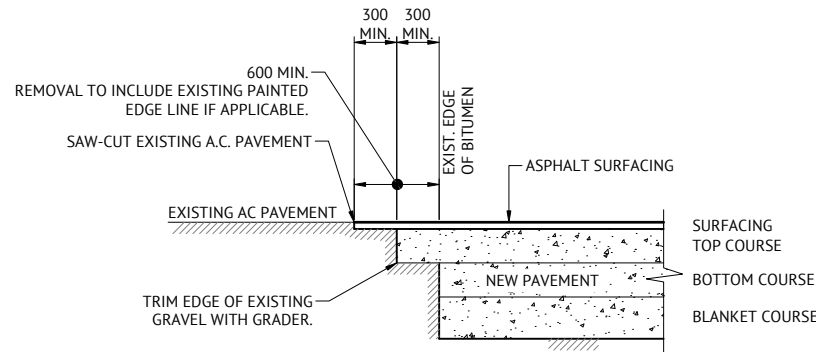
DATE	REV	DESCRIPTION	KK REC	PB APP	REVISIONS
01/03/2024	A	ISSUED FOR CONSTRUCTION			

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.

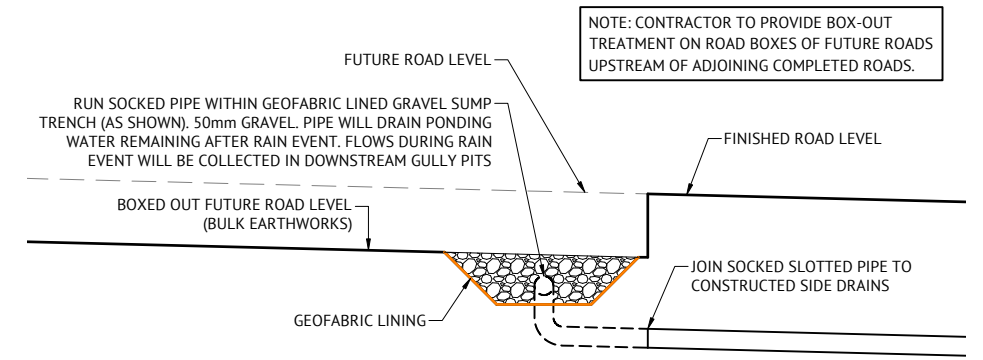
ROADWORKS NOTES

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 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.



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S



TYPICAL FUTURE ROADS BOX-OUT TREATMENT

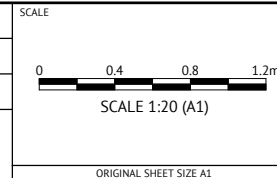
NOTE: CONTRACTOR TO PROVIDE BOX-OUT TREATMENT ON ROAD BOXES OF FUTURE ROADS UPSTREAM OF ADJOINING COMPLETED ROADS.

FOR CONSTRUCTION



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PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
ROADWORKS NOTES AND DETAILS

JOB CODE
MIR-1004

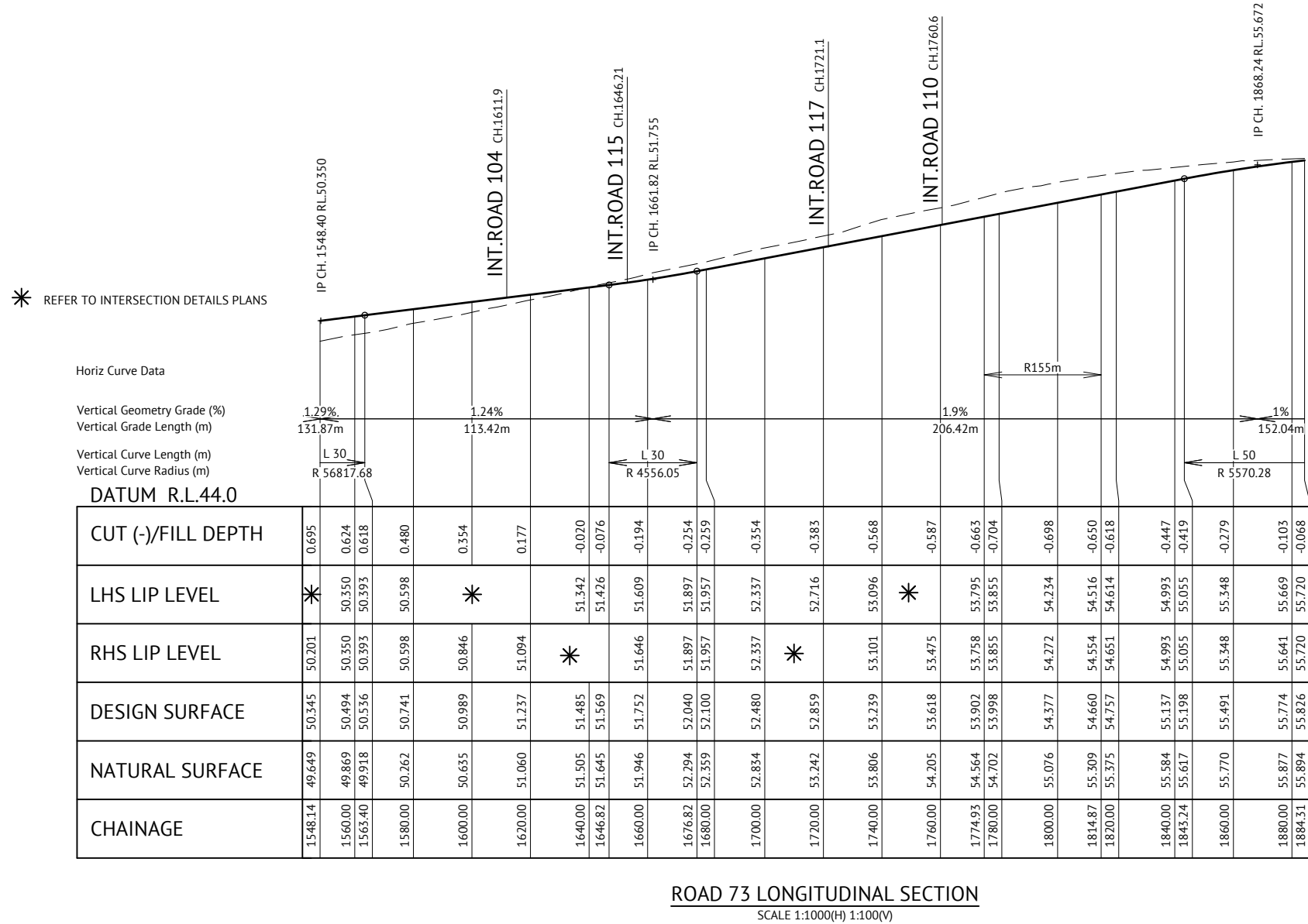
SHEET NUMBER
C300

REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 73
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.



FOR CONSTRUCTION



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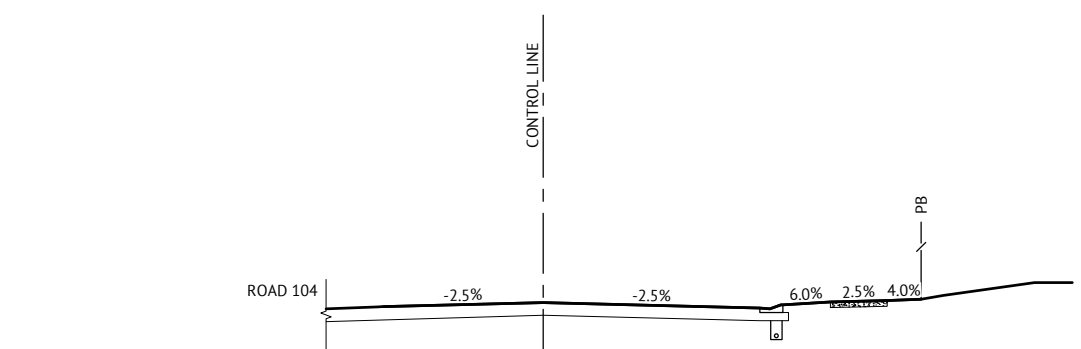
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

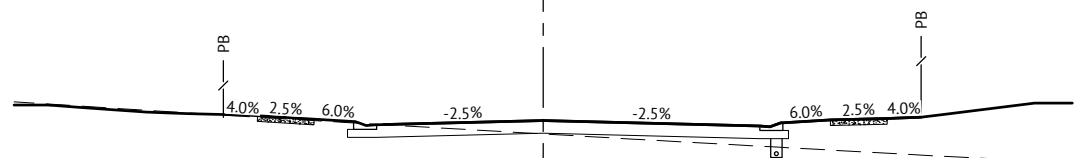
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD LONG 73 SECTION

JOB CODE
MIR-1004
SHEET NUMBER
C310
REV
B

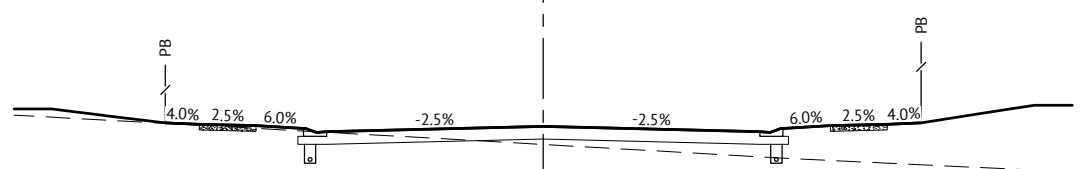
DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



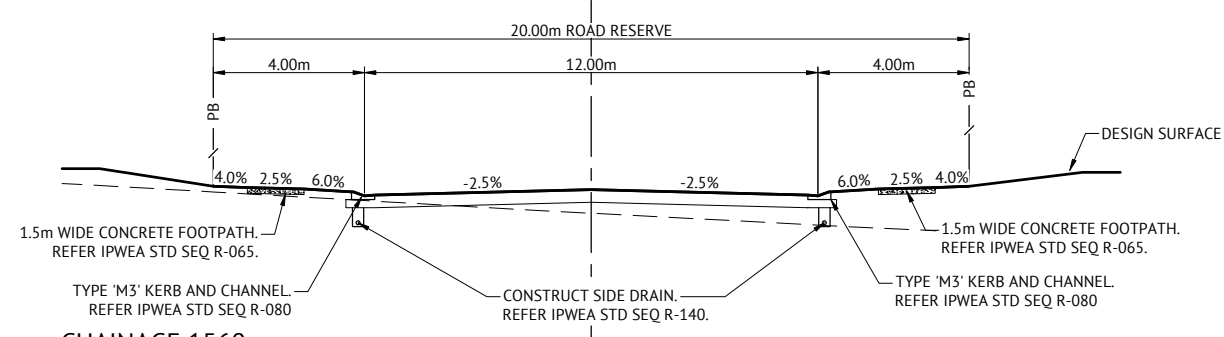
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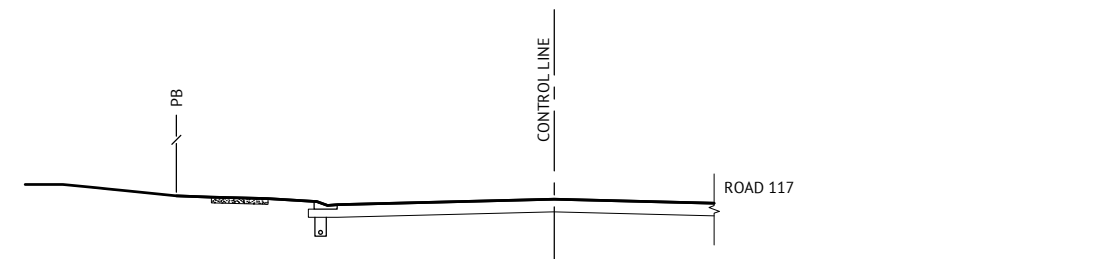
CHAINAGE 1600 DATUM R.L. 46.00



CHAINAGE 1580 DATUM R.L. 46.00



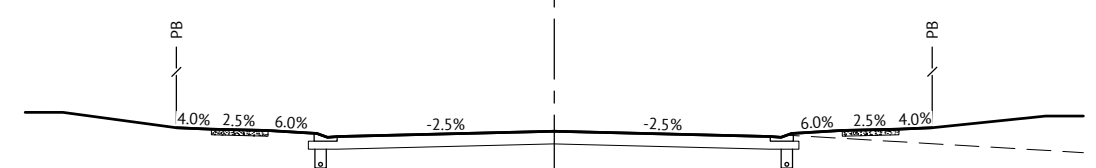
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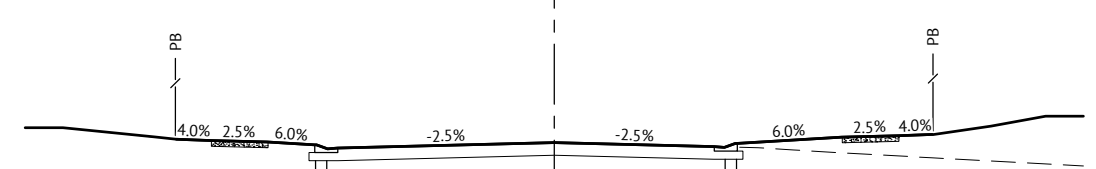
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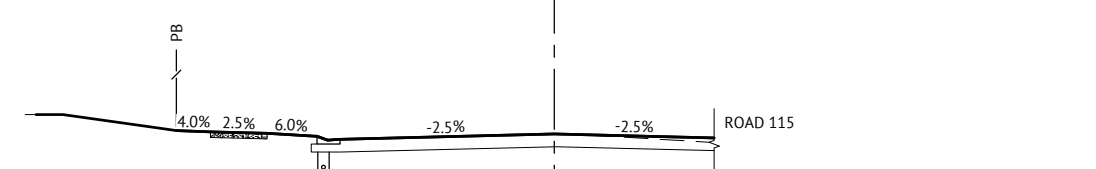
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CHAINAGE 1680 DATUM R.L. 48.00



CHAINAGE 1660 DATUM R.L. 48.00



CHAINAGE 1640 DATUM R.L. 47.00

ROAD 73 CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION

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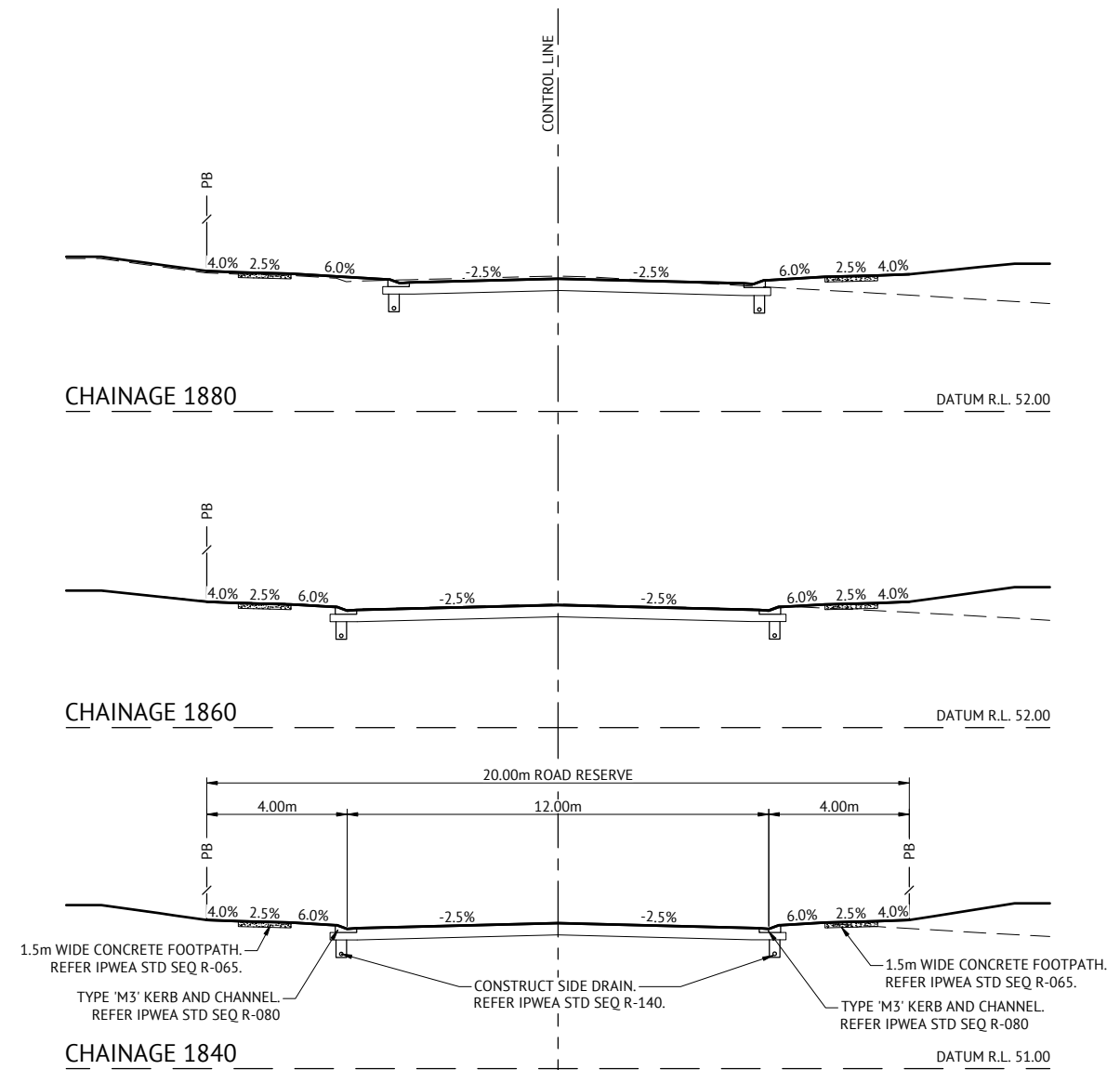
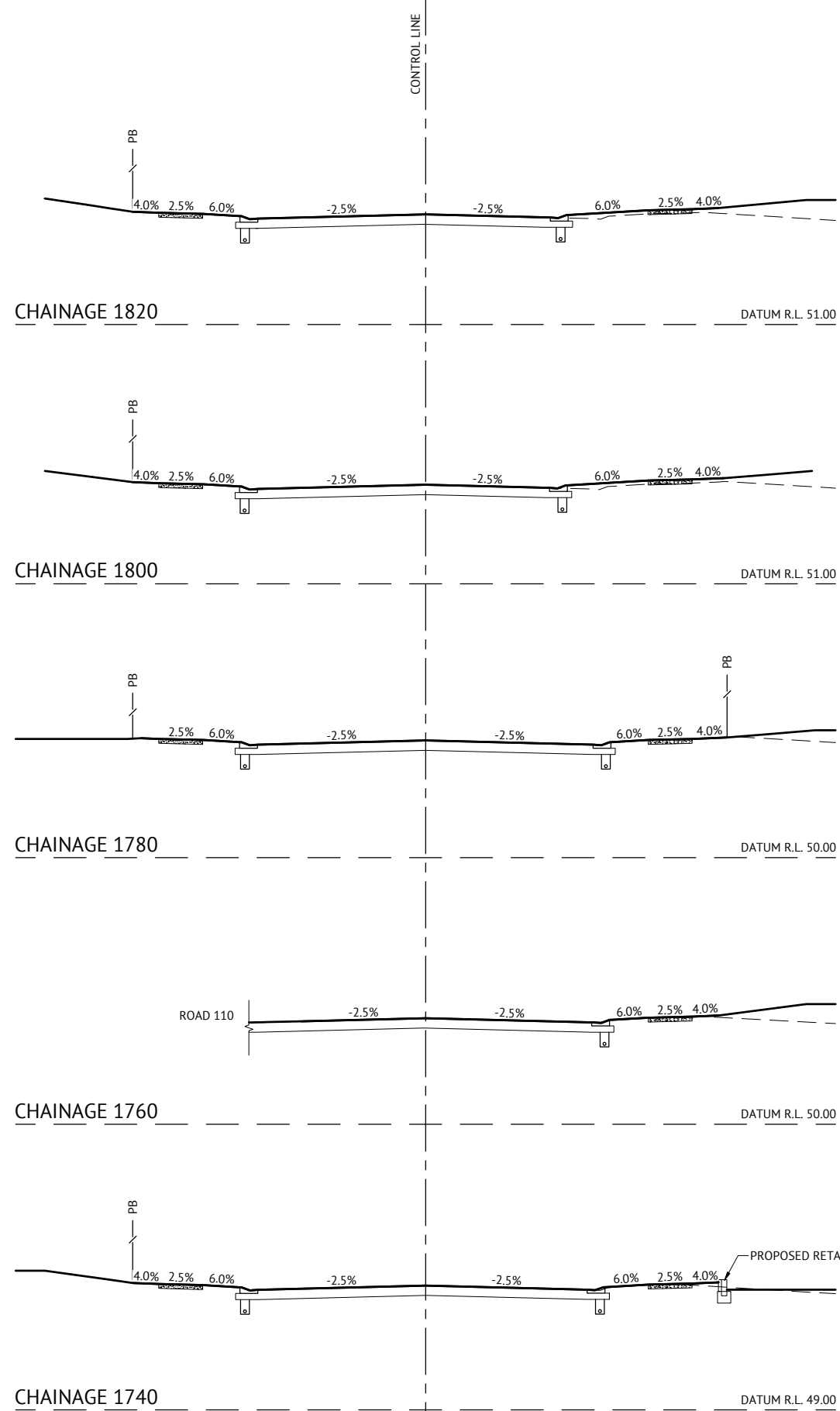
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 73 CROSS SECTIONS - SHEET 1

JOB CODE
MIR-1004
SHEET NUMBER
C311
REV
B



ROAD 73 CROSS SECTIONS
SCALE 1:100

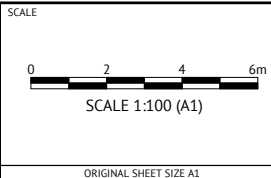
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
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PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 73 CROSS SECTIONS - SHEET 2

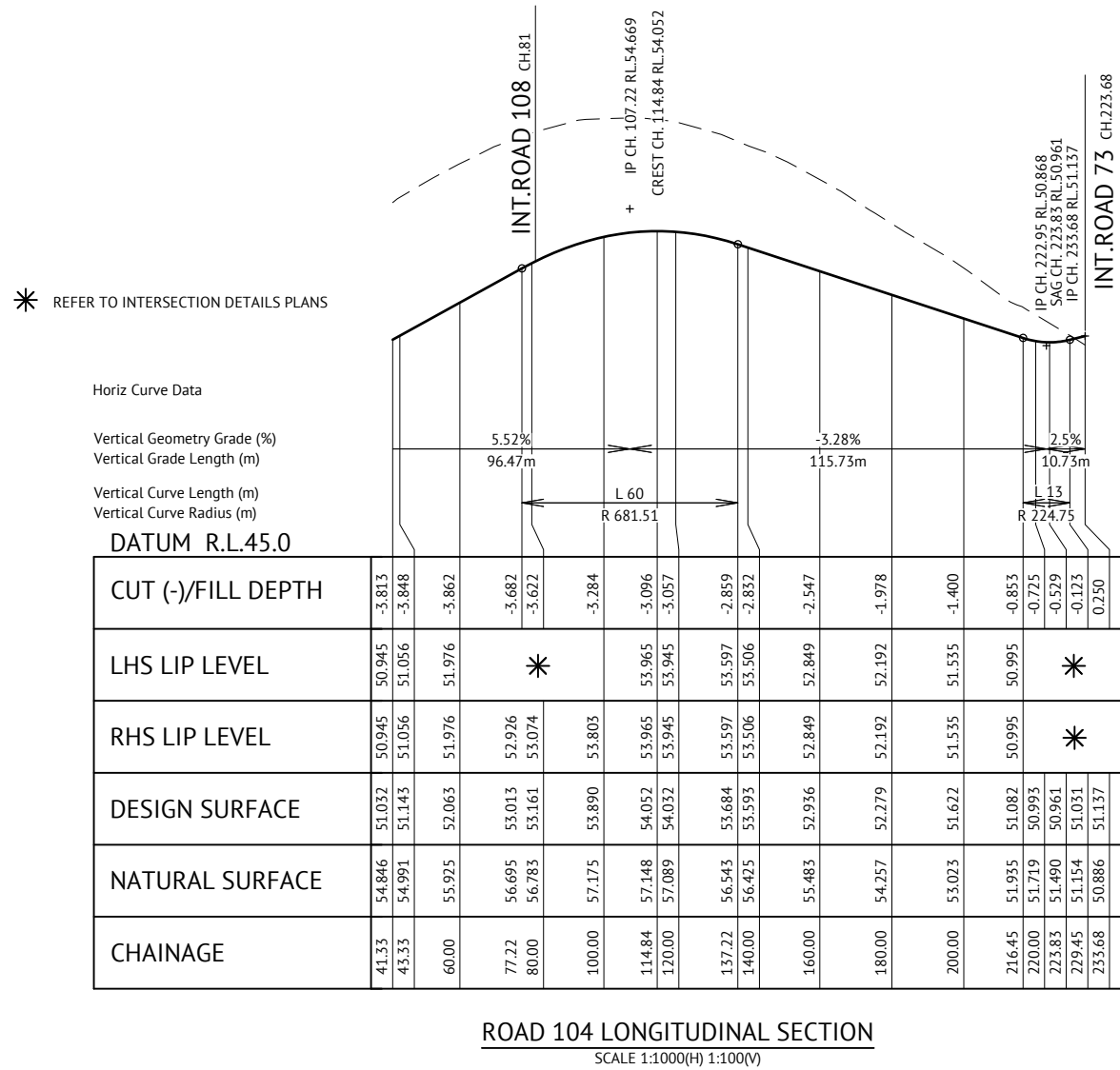
JOB CODE
MIR-1004
SHEET NUMBER
C312
REV
B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 104 (CH.41.33-CH.229.45)
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 104 (CH.229.45-CH.233.68)
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.



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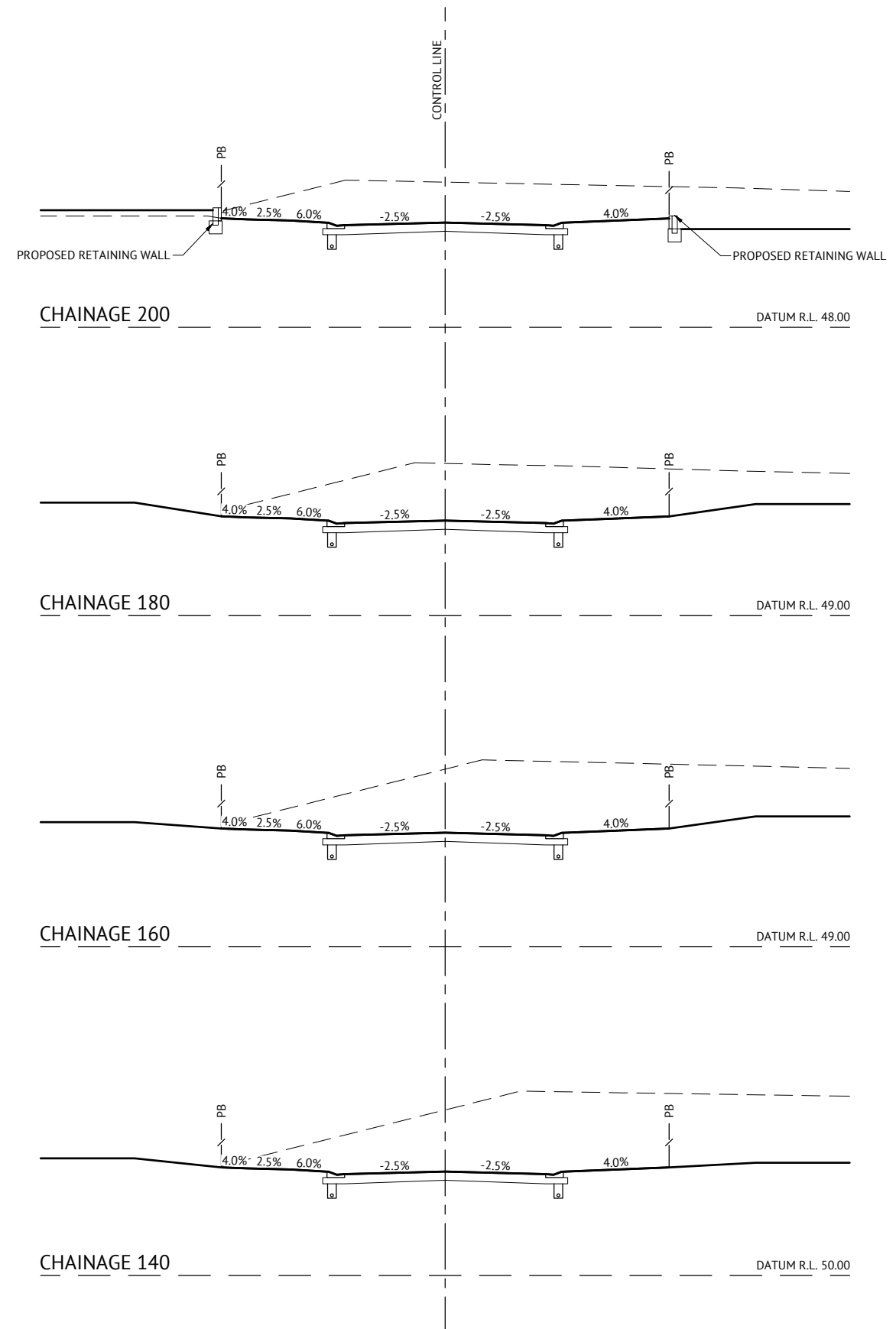
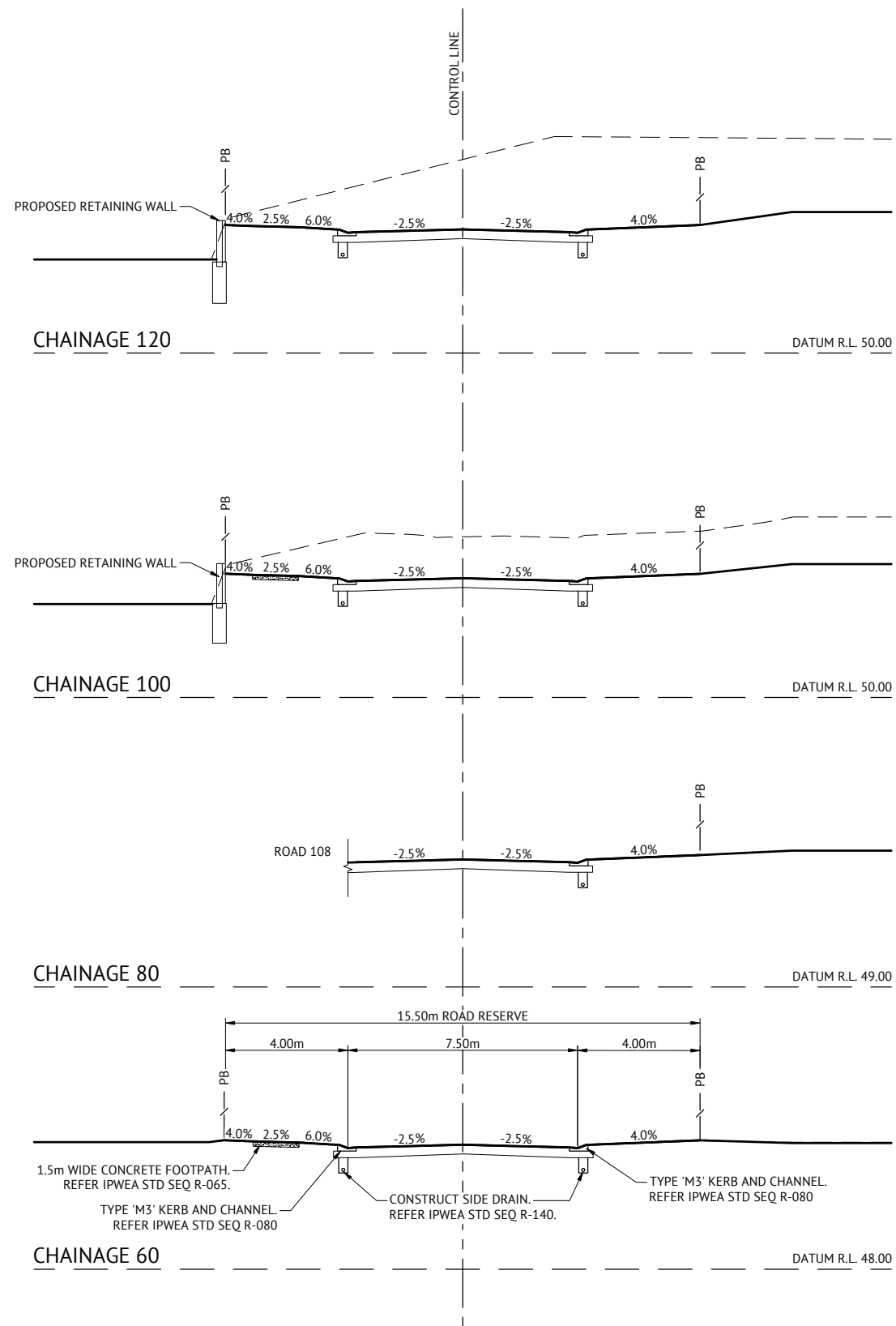
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PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD LONG 104 SECTION

JOB CODE
MIR-1004
SHEET NUMBER
C313
REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



ROAD 104 CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION



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SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

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EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 104 CROSS SECTIONS

JOB CODE
MIR-1004
SHEET NUMBER
C314
REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 108
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.90 x 10 ³
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

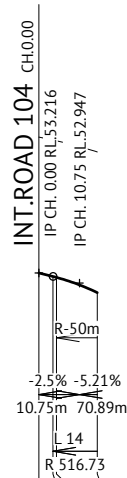
CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

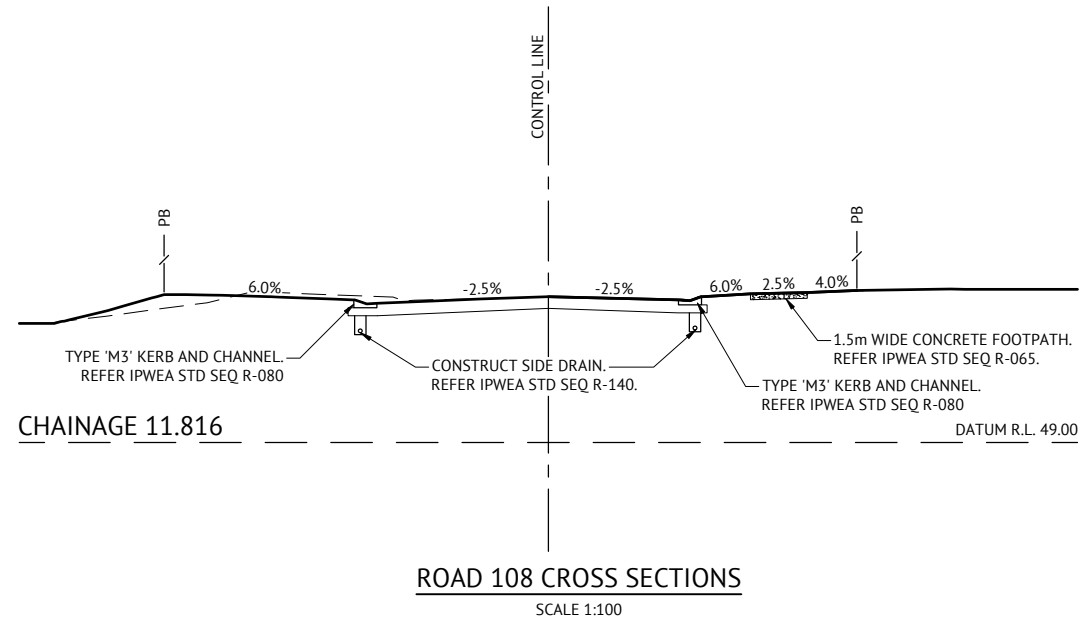
Vertical Curve Length (m)
Vertical Curve Radius (m)



DATUM R.L.47.0

CUT (-)/FILL DEPTH	-3.596	-3.612	-3.615	-3.721
LHS LIP LEVEL	*			
RHS LIP LEVEL	*		52.608	
DESIGN SURFACE	53.216	53.122	53.098	52.696
NATURAL SURFACE	56.812	56.734	56.713	56.416
CHAINAGE	0.00	3.75	4.67	15.48

ROAD 108 LONGITUDINAL SECTION
SCALE 1:1000(H) 1:100(V)



ROAD 108 CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION



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

CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

ROAD 108 LONG AND CROSS SECTIONS

JOB CODE

MIR-1004

SHEET NUMBER

C315

REV

B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 110 (CH.0.00-CH.4.230)
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 110 (CH.4.230-CH.33.930)
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

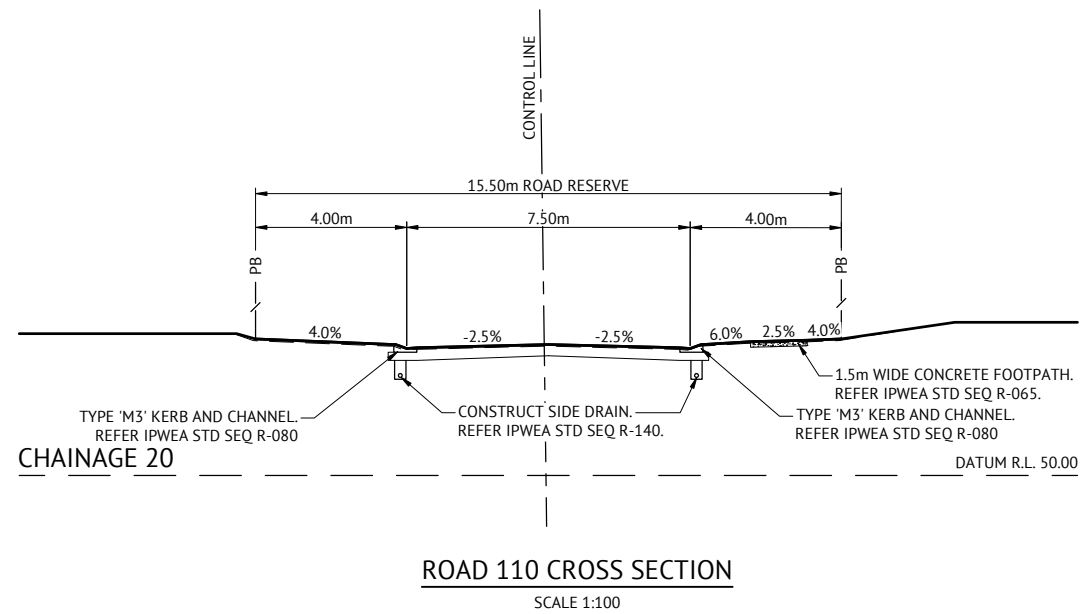
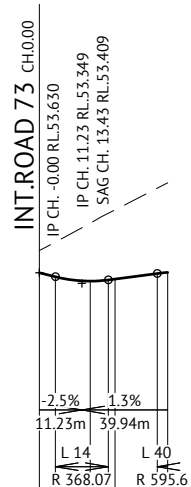
Horiz Curve Data

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

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

DATUM R.L.47.0

CUT (-)/FILL DEPTH	0.00	4.23	13.43	18.23	20.00	31.17	33.95
LHS LIP LEVEL	*						
RHS LIP LEVEL	*						
DESIGN SURFACE	53.630	53.524	53.409	53.440	53.463	53.609	53.638
NATURAL SURFACE		54.441	54.939	55.204	55.293	55.866	56.010
CHAINAGE							



ROAD 110 LONGITUDINAL SECTION
SCALE 1:1000(H) 1:100(V)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

Premise
BRISBANE OFFICE
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PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 110 LONG AND CROSS SECTIONS

JOB CODE
MIR-1004
SHEET NUMBER
C316
REV
B

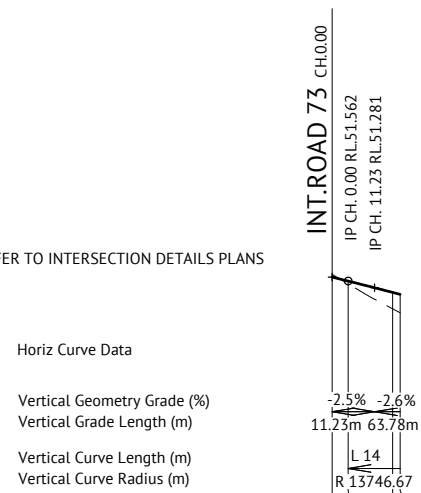
PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 115 (CH.0.00-CH.4.230)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.40 x 10 ⁶
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE	-	PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

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 115 (CH.4.230-CH.18.00)
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

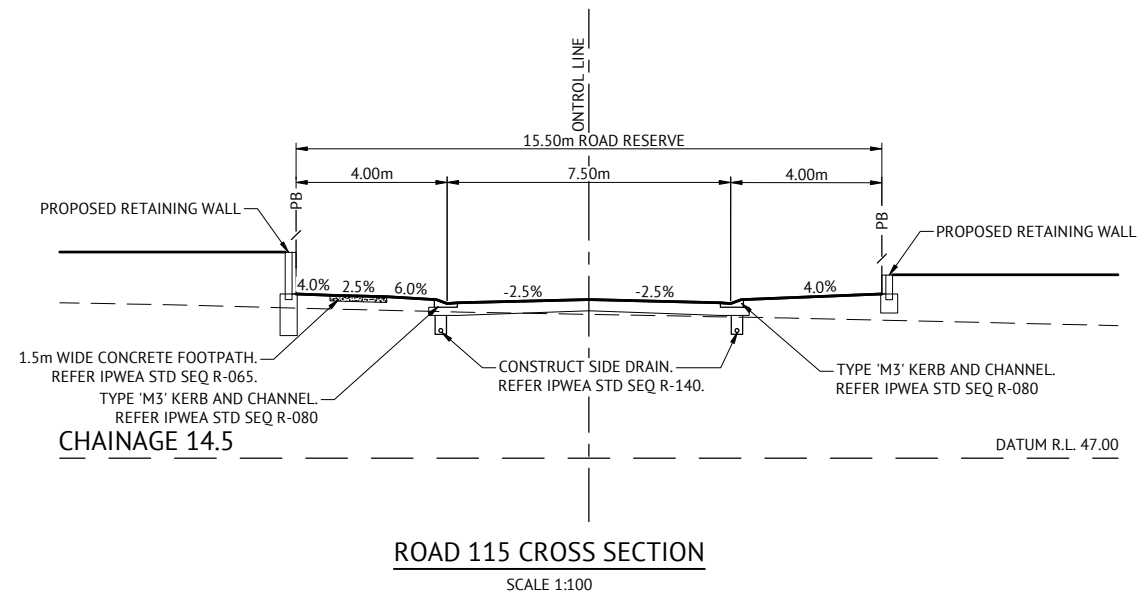
CONTRACTOR SHALL GUARANTEE CBR10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.

* REFER TO INTERSECTION DETAILS PLANS



DATUM R.L.45.0		
CUT (-)/FILL DEPTH	-0.071	0.073
LHS LIP LEVEL	*	51.070
RHS LIP LEVEL	*	51.070
DESIGN SURFACE	51.562	51.105
NATURAL SURFACE	51.633	50.616
CHAINAGE	0.00	18.00

ROAD 115 LONGITUDINAL SECTION
SCALE 1:1000(H) 1:100(V)



ROAD 115 CROSS SECTION
SCALE 1:100

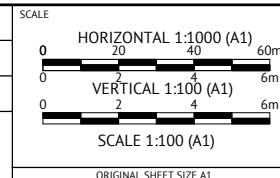
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 115 LONG AND CROSS SECTIONS

JOB CODE
MIR-1004
SHEET NUMBER
C317
REV
B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	ROAD 117 (CH.257.52-CH.271.29)
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 117 (CH.271.29-CH.275.52)
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.

* REFER TO INTERSECTION DETAILS PLANS

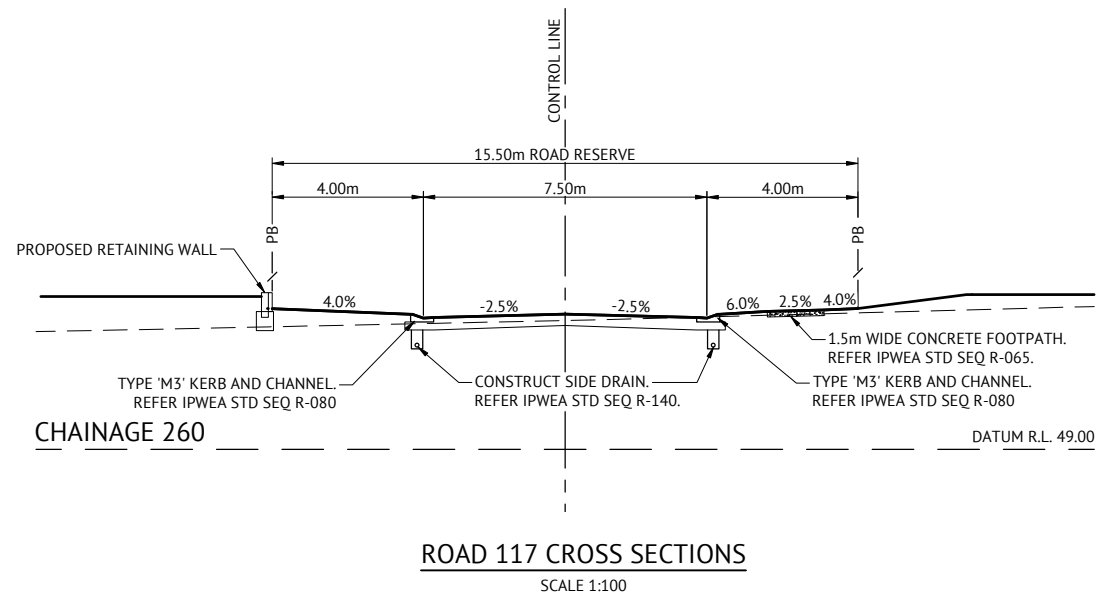
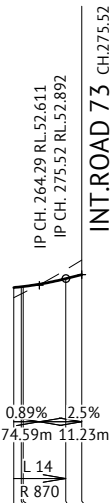
Horiz Curve Data

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

DATUM R.L.46.0

CUT (-)/FILL DEPTH	0.267	0.187	0.168	-0.236	-0.385
LHS LIP LEVEL	52.464	52.485	52.490	*	*
RHS LIP LEVEL	52.464	52.485	52.490	*	*
DESIGN SURFACE	52.551	52.571	52.577	52.786	52.892
NATURAL SURFACE	52.283	52.384	52.409	53.022	53.277
CHAINAGE	257.52	259.52	260.00	271.29	275.52

ROAD 117 LONGITUDINAL SECTION
SCALE 1:1000(H) 1:100(V)



ROAD 117 CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

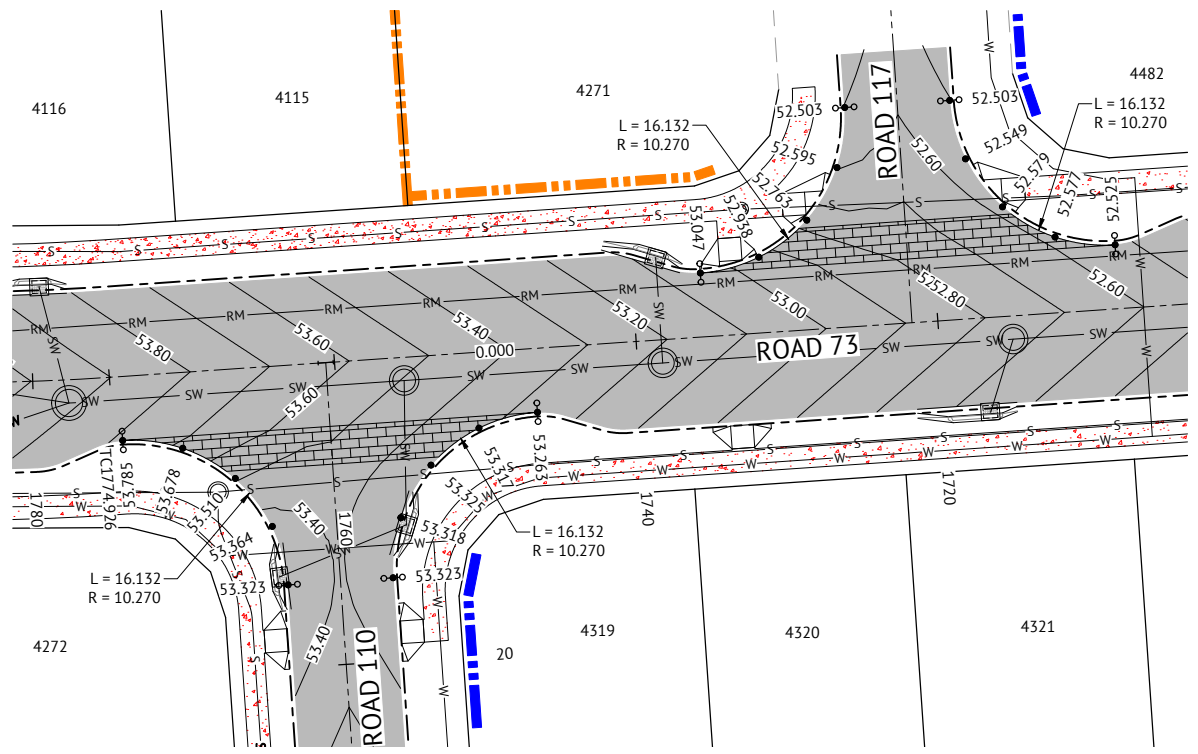
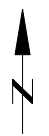
Premise
BRISBANE OFFICE
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PATRICK BRADY
RPEQ 7112

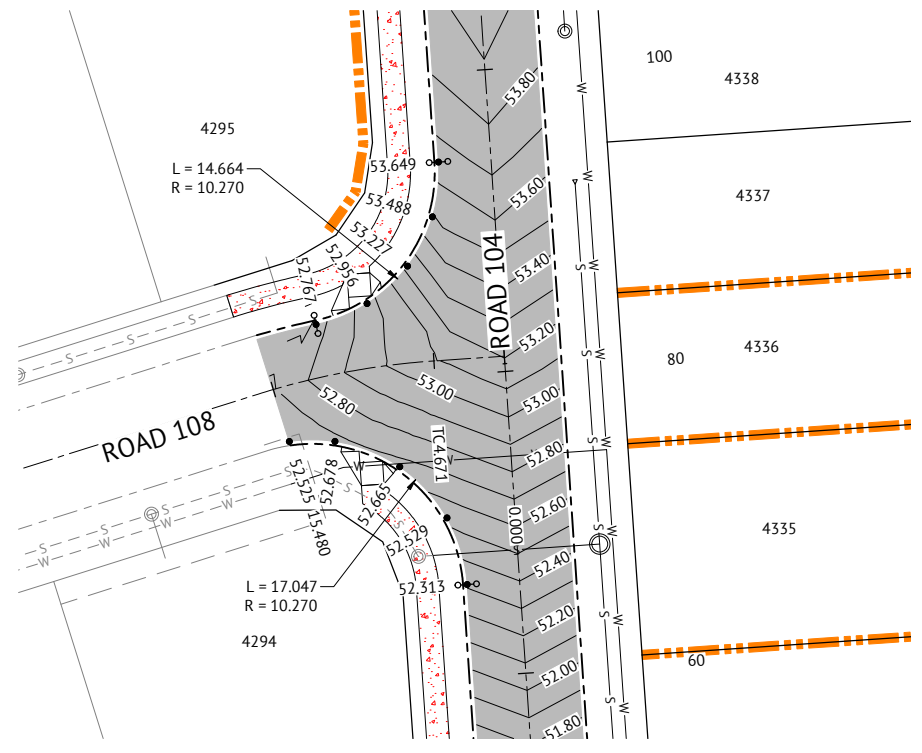
SCALE
HORIZONTAL 1:1000 (A1)
VERTICAL 1:100 (A1)
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROAD 117 LONG AND CROSS SECTIONS

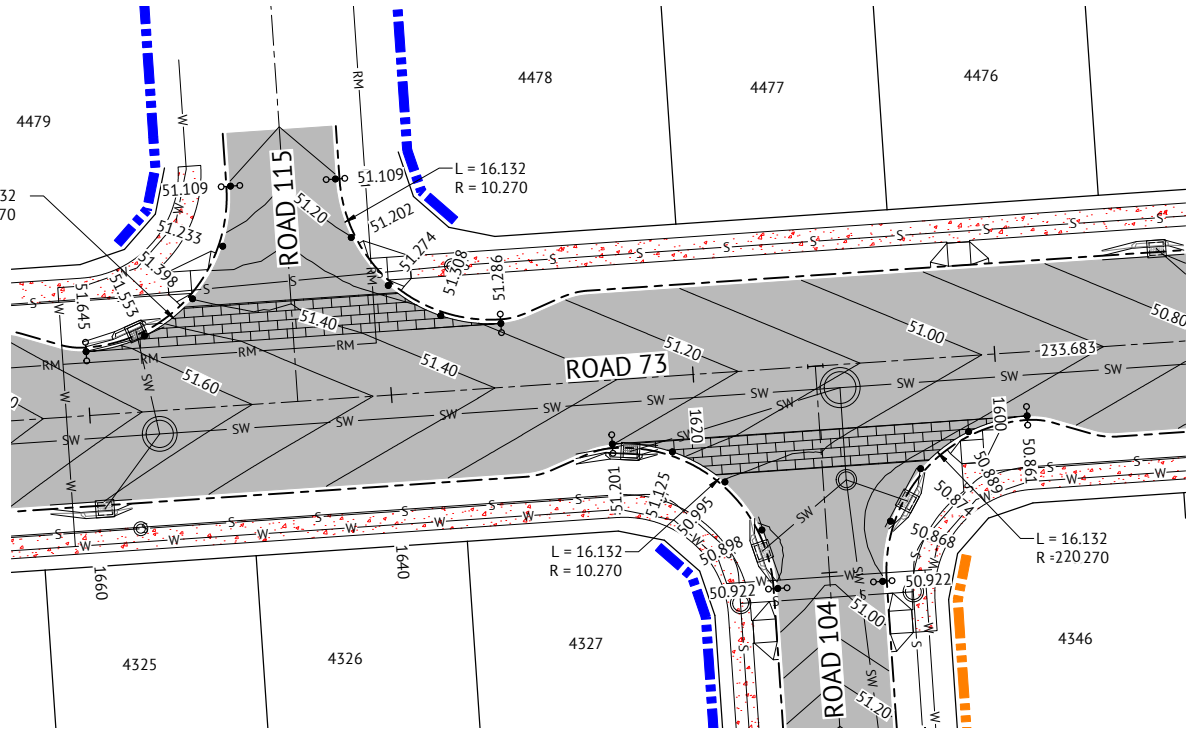
JOB CODE
MIR-1004
SHEET NUMBER
C318
REV
B



INTERSECTION ROAD 73 AND ROAD 110
INTERSECTION ROAD 73 AND ROAD 117
SCALE 1:250



INTERSECTION ROAD 104 AND ROAD 108
SCALE 1:250



INTERSECTION ROAD 73 AND ROAD 115
INTERSECTION ROAD 73 AND ROAD 104
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 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.
- LIP OF KERB LEVEL
- PROPOSED STORMWATER
- PROPOSED WATER
- PROPOSED SEWER
- SEWER RISING MAIN
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- DURATHEM THRESHOLD TREATMENT. REFER TO URBIS EVERLEIGH LANDSCAPE MASTERPLAN - PART B (PAGE 20) FOR COLOUR AND PATTERN.

LEGEND - CONSTRUCTED

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

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REV	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

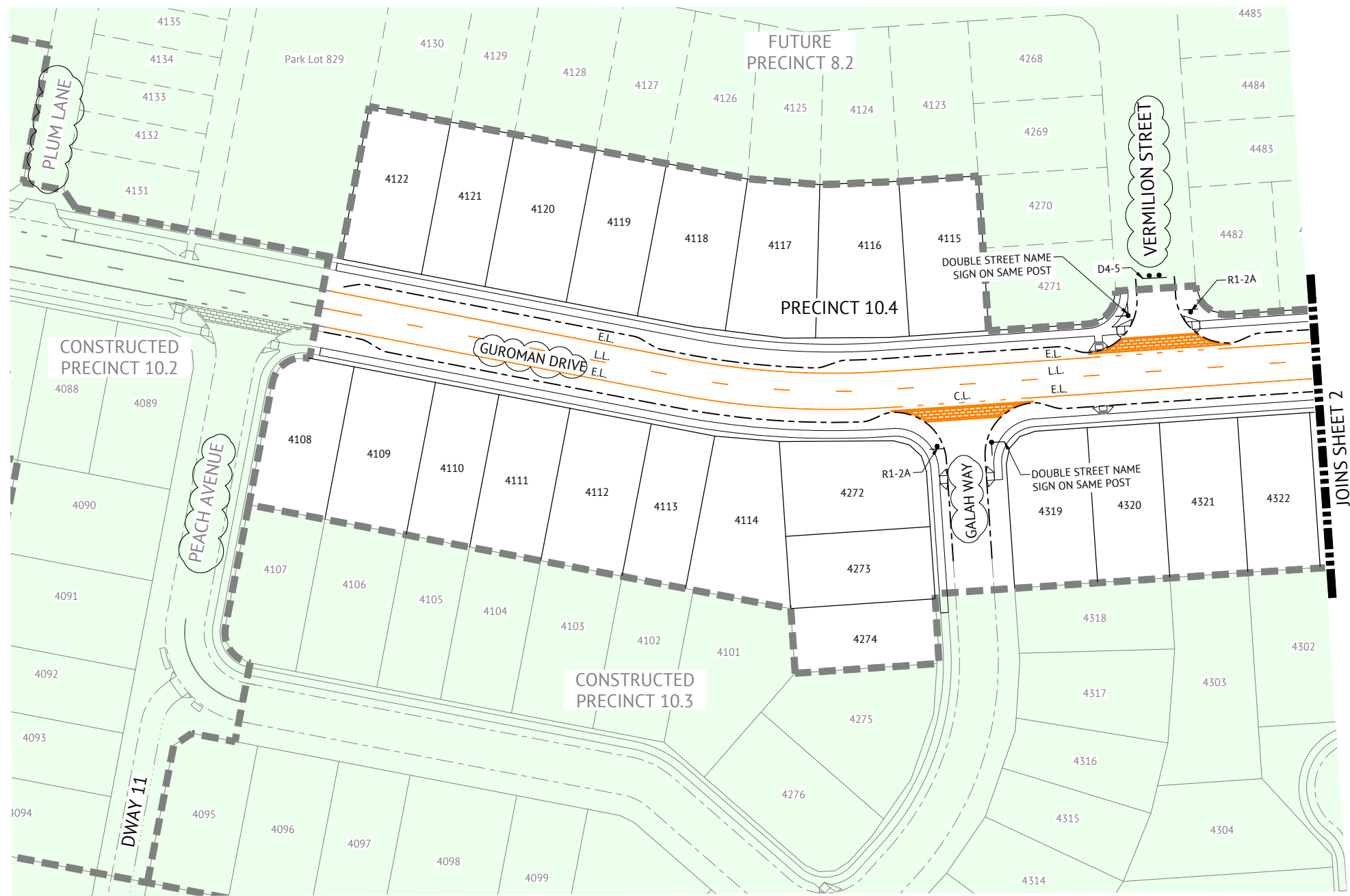
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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

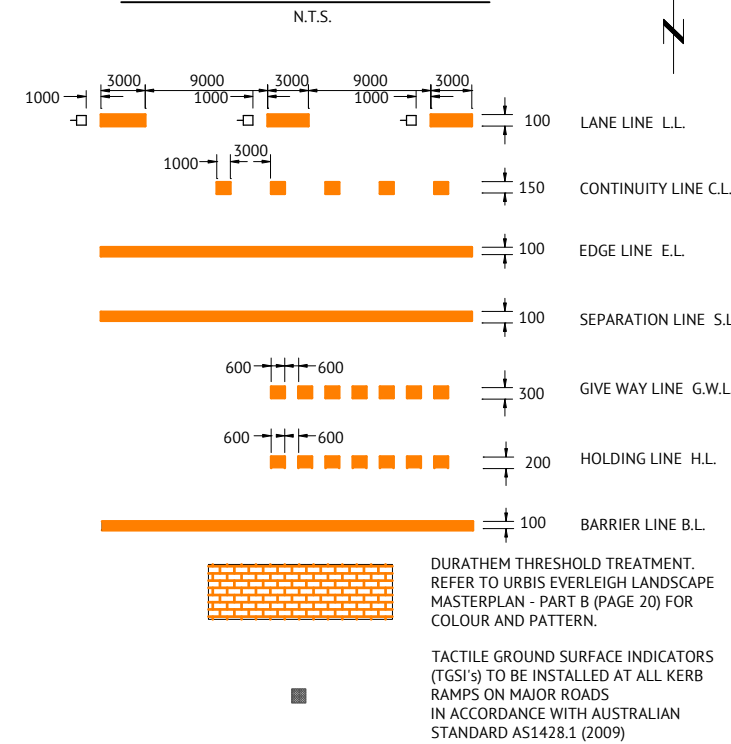
CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
INTERSECTION DETAILS LAYOUT

JOB CODE
MIR-1004
SHEET NUMBER
C320
REV
B



PAVEMENT MARKINGS AND SIGNAGE LAYOUT
SCALE 1:500

TYPICAL LINEMARKING LEGEND



LINEMARKING NOTES

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

SIGNAGE NOTES

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

REQUIRED SIGNS



D4-5



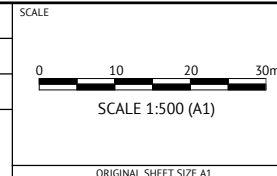
R1-2A

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	AMENDED ROAD NAMES	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

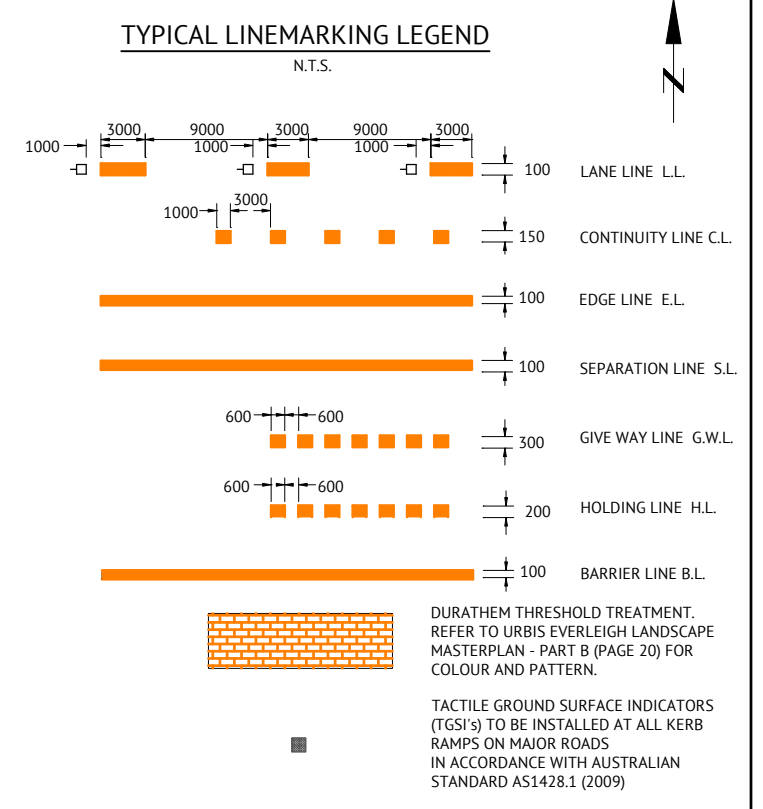
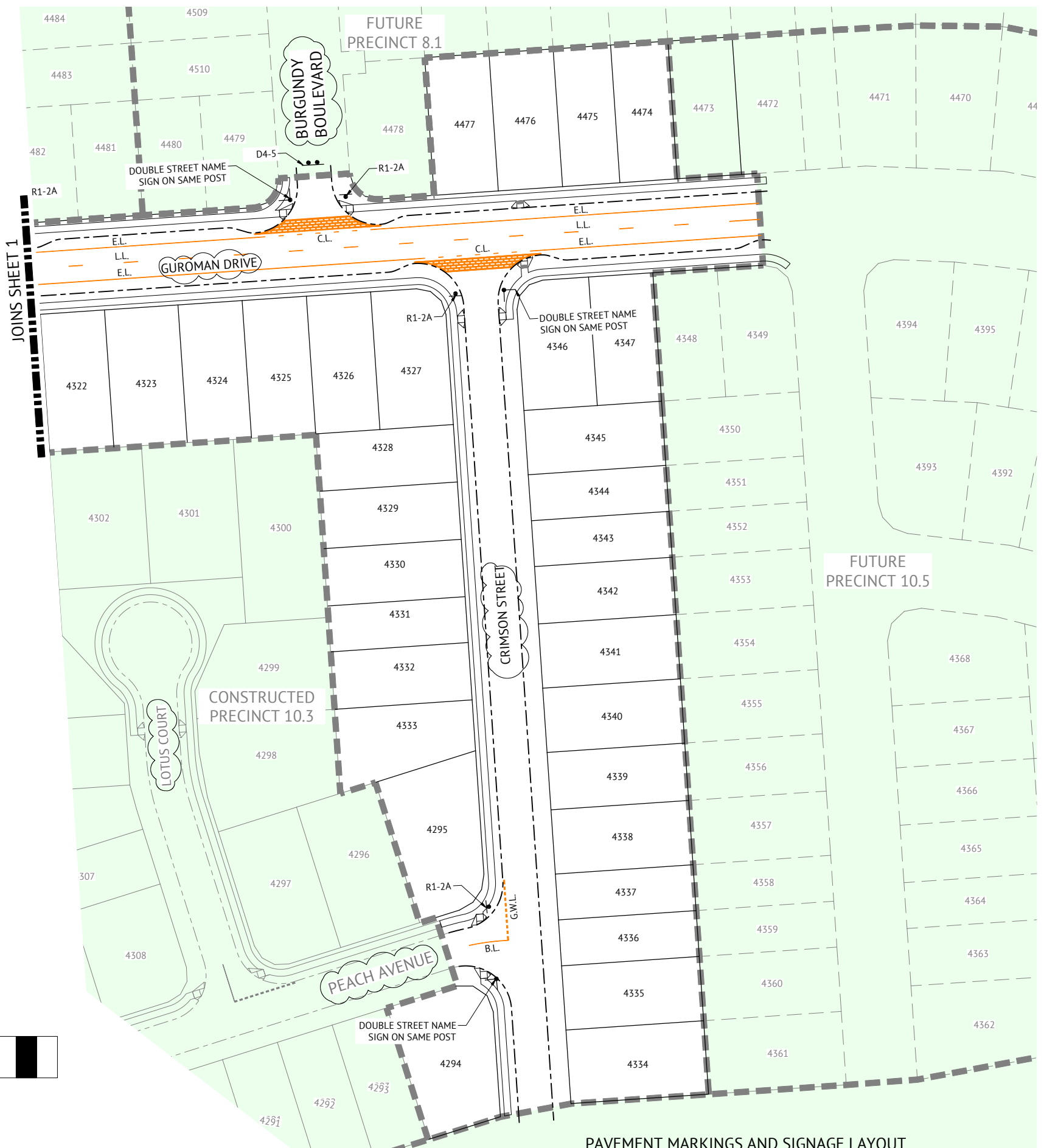
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
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PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 1

JOB CODE
MIR-1004
SHEET NUMBER
C330
REV
B



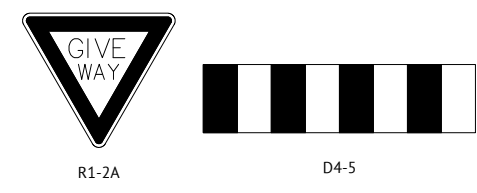
LINEMARKING NOTES

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

SIGNAGE NOTES

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

REQUIRED SIGNS



PAVEMENT MARKINGS AND SIGNAGE LAYOUT
SCALE 1:500

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	AMENDED ROAD NAMES	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB

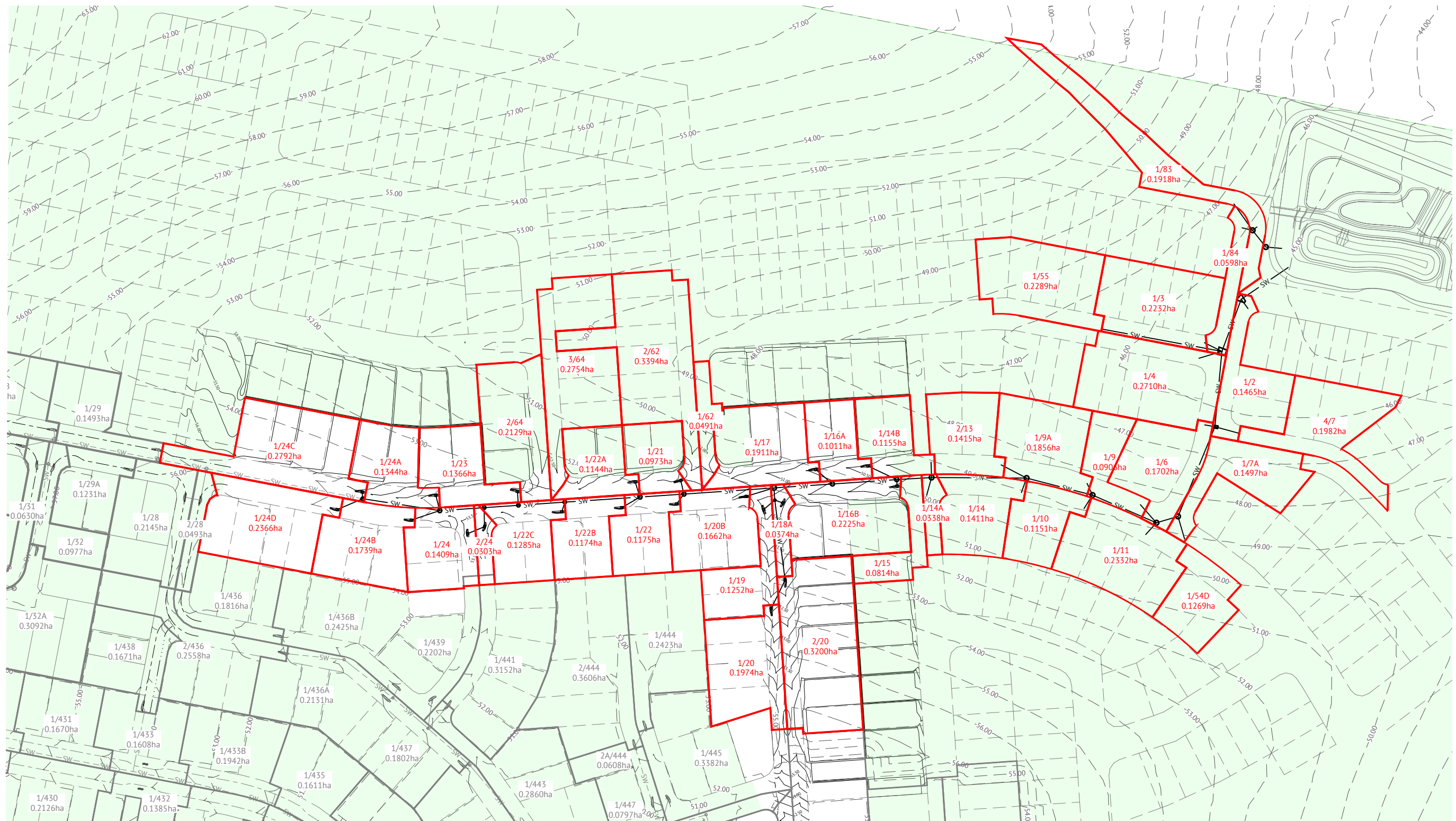
Premise
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KLYNT KIWANG
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ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN - SHEET 2

JOB CODE
MIR-1004
SHEET NUMBER
C331
REV
B



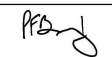
LEGEND


- STORMWATER CATCHMENT BOUNDARY
- 1/A
0.2511ha 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

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB

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

 SCALE 1:1000 (A1)
 ORIGINAL SHEET SIZE A1

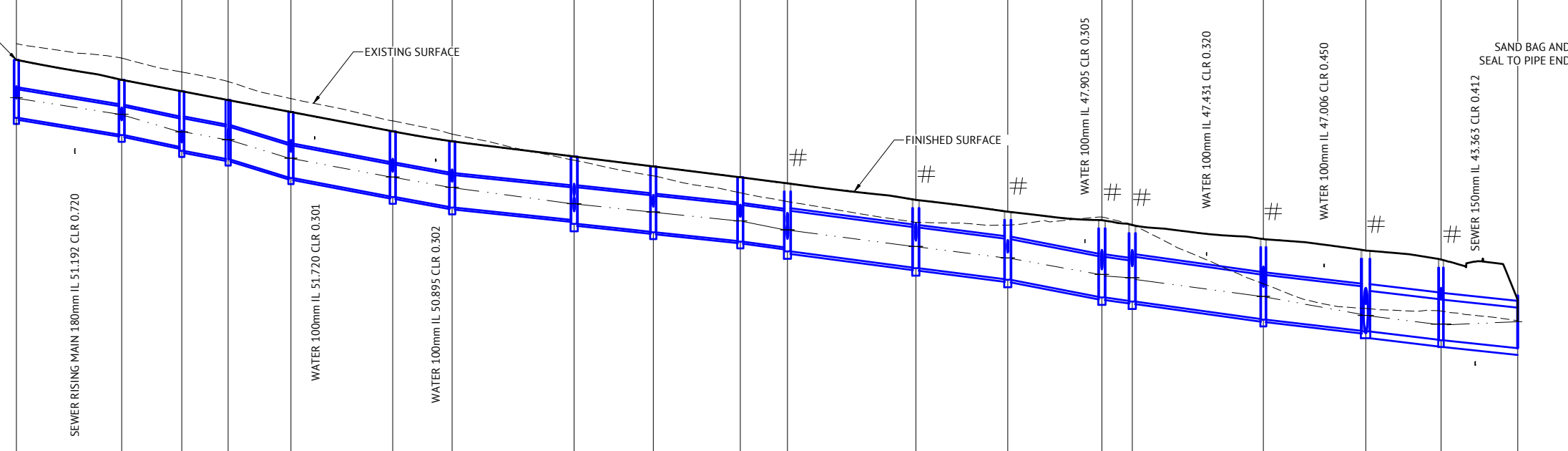
CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER CATCHMENT LAYOUT PLAN

JOB CODE
MIR-1004
 SHEET NUMBER
C400
 REV
B

STRUCTURE NAME	10/1	10B/1	11/1	11A/1	11B/1	11C/1	12/1	13/1	14/1	14A/1	15/1	16/1	16A/1	17/1	18/1	19/1	20/1	21/1	23/1	1/2	21/1
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 1800mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	IPWEA MANHOLE 2100mm DIA	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	HEADWALL REFER ENGENY P8 BASIN DRAWING SET M4-300-029 FOR OUTLET DETAILS	FUTURE IPWEA KERB INLET I.L.L: 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING

REMOVE TEMPORARY HEADWALL AND
CONSTRUCT MANHOLE OVER EXISTING PIPE END

TERMINATE MANHOLE 300mm BELOW
FSL WITH STEEL PLATE TO COVER



PIPE SIZE (mm)	1050	1050	1200	1200	1200	1200	1200	1350	1350	1350	1500	1500	1500	1500	1650	1650	3300x1500 BC (LARGE)	3300x1500 BC (LARGE)	375		
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
PIPE GRADE (%)	1.59%	1.95%	1.74%	2.87%	1.81%	1.68%	1.00%	1.00%	1.00%	1.21%	1.26%	1.20%	1.82%	1.15%	1.34%	1.10%	1.10%	1.10%	1.03%		
PIPE SLOPE (1 in X)	63.0	51.3	57.6	34.9	55.2	59.5	100.0	100.0	100.0	82.4	79.2	83.0	54.9	87.0	74.6	90.9	90.9	90.9	97.1		
FULL PIPE VELOCITY (m/s)	1.81	1.88	1.46	1.48	1.49	1.52	1.55	1.32	1.34	1.37	1.28	1.30	1.32	1.34	1.23	1.29	0.91	0.91	0.31		
PART FULL VELOCITY (m/s)	3.88	4.23	4.04	4.87	4.13	4.04	3.35	3.41	3.42	3.70	3.88	3.82	4.46	3.79	4.10	3.87	3.65	3.65	1.23		
PIPE FLOW (cumecs)	1.570	1.627	1.651	1.671	1.686	1.716	1.748	1.894	1.917	1.962	2.265	2.291	2.328	2.369	2.632	2.756	4.493	4.489	0.034		
PIPE CAPACITY AT GRADE (cumecs)	3.441	3.814	5.138	6.605	5.250	5.055	3.900	5.340	5.340	5.883	7.948	7.760	9.540	7.584	10.559	9.563	25.679	24.849	0.175		
DATUM RL	33.0																			29.0	
WSE IN STRUCTURE	53.262	52.645	51.995	51.705	51.022	50.327	49.946	49.341	49.034	48.703	48.374	47.760	47.336	46.729	46.606	45.913	45.213	44.890	44.980	46.061	
HGL IN PIPE	53.225	52.601	51.995	51.705	51.022	50.327	49.946	49.341	49.016	48.683	48.374	47.760	47.336	46.729	46.604	45.913	45.213	44.890	44.980	46.013	
DEPTH OF INVERT BELOW FSL	2.143	2.022	2.054	2.176	2.421	2.409	2.431	2.336	2.416	2.357	2.365	2.502	2.495	2.836	2.805	2.960	2.970	2.964	1.950	1.316	
INVERT LEVEL	52.511	51.894	51.441	50.993	50.307	49.604	49.215	48.744	48.301	47.959	47.728	46.978	46.548	45.895	45.746	45.075	44.659	44.312	44.000	45.879	
FINISHED (& EXISTING) SURFACE LEVEL	54.655 (55.250)	53.915 (54.723)	53.495 (54.206)	53.169 (53.851)	52.728 (53.226)	52.014 (52.400)	51.647 (51.912)	51.079 (50.950)	50.717 (50.368)	50.316 (49.740)	50.093 (49.416)	49.480 (48.650)	49.043 (48.547)	48.731 (48.850)	48.550 (48.572)	48.035 (46.381)	47.609 (45.469)	47.377 (45.374)	45.950 (45.018)	45.950 (45.018)	45.286 (45.374)
CHAINAGE	0.000	38.931	38.931	22.221	61.152	17.153	78.305	23.227	101.532	37.672	139.203	21.973	161.177	45.131	206.307	29.257	235.565	32.203	267.768	17.436	
																					47.477
																					532.681
																					34.017
																					366.698
																					401.504
																					11.230
																					412.735
																					48.491
																					461.226
																					37.877
																					499.103
																					27.857
																					526.960
																					28.388
																					555.348

LINE 1 2

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

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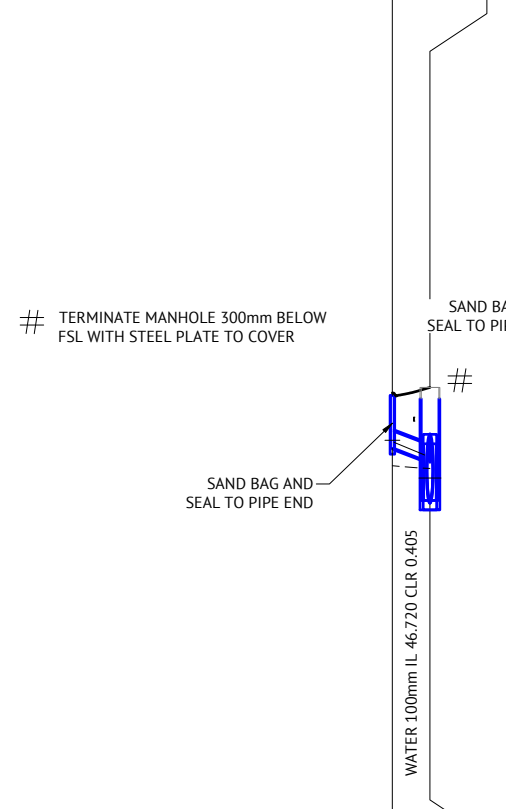
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 1

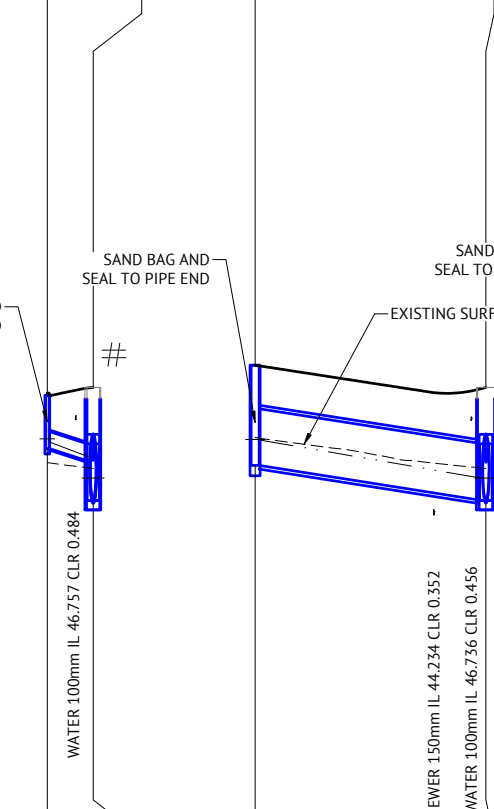
JOB CODE
MIR-1004
SHEET NUMBER
C410
REV
B

STRUCTURE NAME	1/3	20/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING



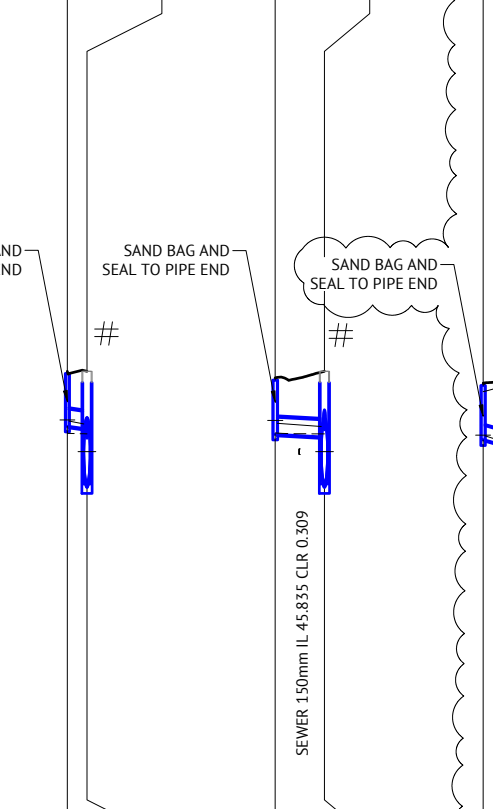
PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	2.79%
PIPE SLOPE (1 in X)	35.9
FULL PIPE VELOCITY (m/s)	0.34
PART FULL VELOCITY (m/s)	1.99
PIPE FLOW (cumecs)	0.055
PIPE CAPACITY AT GRADE (cumecs)	0.476
DATUM RL	30.0
WSE IN STRUCTURE	46.214
HGL IN PIPE	46.156
DEPTH OF INVERT BELOW FSL	1.403
INVERT LEVEL	45.995
FINISHED (& EXISTING) SURFACE LEVEL	47.398 (45.540)
CHAINAGE	0.000

STRUCTURE NAME	1/4	20/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING



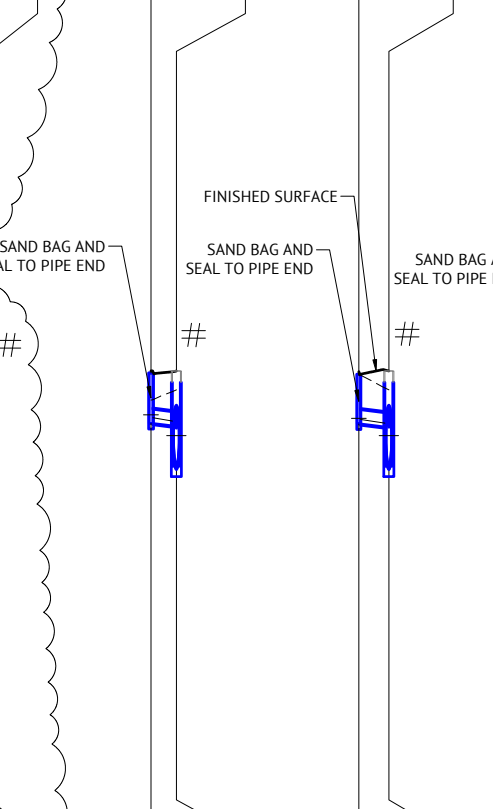
PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	2.70%
PIPE SLOPE (1 in X)	37.0
FULL PIPE VELOCITY (m/s)	0.40
PART FULL VELOCITY (m/s)	2.06
PIPE FLOW (cumecs)	0.064
PIPE CAPACITY AT GRADE (cumecs)	0.469
DATUM RL	30.0
WSE IN STRUCTURE	46.250
HGL IN PIPE	46.171
DEPTH OF INVERT BELOW FSL	1.403
INVERT LEVEL	45.997
FINISHED (& EXISTING) SURFACE LEVEL	47.609 (45.619)
CHAINAGE	12.149

STRUCTURE NAME	18/5	20/1
STRUCTURE DESCRIPTION	FUTURE IPWEA MANHOLE 2100mm DIA	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING



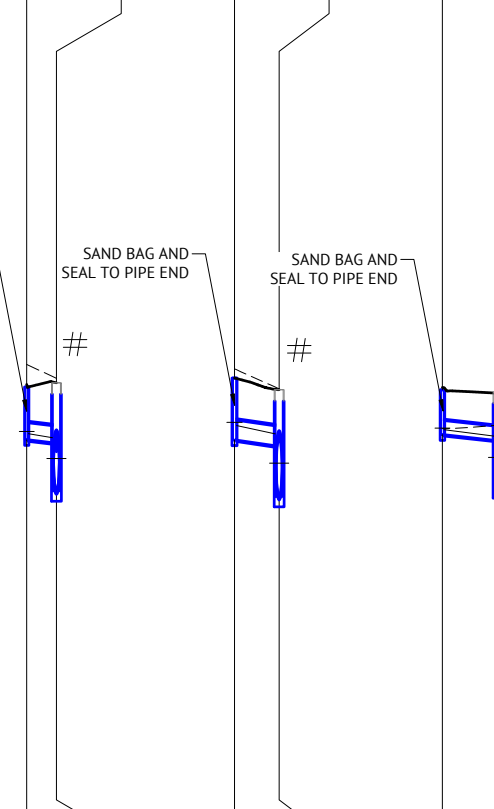
PIPE SIZE (mm)	1500
PIPE CLASS	2
PIPE GRADE (%)	1.49%
PIPE SLOPE (1 in X)	67.3
FULL PIPE VELOCITY (m/s)	0.98
PART FULL VELOCITY (m/s)	3.82
PIPE FLOW (cumecs)	1.736
PIPE CAPACITY AT GRADE (cumecs)	8.620
DATUM RL	30.0
WSE IN STRUCTURE	46.232
HGL IN PIPE	46.221
DEPTH OF INVERT BELOW FSL	2.652
INVERT LEVEL	45.546
FINISHED (& EXISTING) SURFACE LEVEL	47.609 (46.288)
CHAINAGE	61.063

STRUCTURE NAME	1/6	19/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING



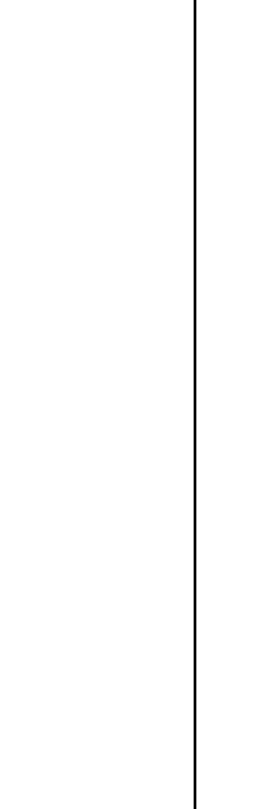
PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.26
PIPE FLOW (cumecs)	0.040
PIPE CAPACITY AT GRADE (cumecs)	0.285
DATUM RL	30.0
WSE IN STRUCTURE	46.750
HGL IN PIPE	46.718
DEPTH OF INVERT BELOW FSL	1.397
INVERT LEVEL	46.582
FINISHED (& EXISTING) SURFACE LEVEL	48.035 (46.394)
CHAINAGE	5.194

STRUCTURE NAME	4/7	19/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel ON 1050mm DIA MANHOLE	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING



PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	0.50%
PIPE SLOPE (1 in X)	200.0
FULL PIPE VELOCITY (m/s)	0.95
PART FULL VELOCITY (m/s)	1.39
PIPE FLOW (cumecs)	0.151
PIPE CAPACITY AT GRADE (cumecs)	0.202
DATUM RL	30.0
WSE IN STRUCTURE	46.736
HGL IN PIPE	46.659
DEPTH OF INVERT BELOW FSL	1.434
INVERT LEVEL	46.369
FINISHED (& EXISTING) SURFACE LEVEL	48.035 (46.408)
CHAINAGE	13.030

STRUCTURE NAME	1/9	17/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	2.50%
PIPE SLOPE (1 in X)	40.0
FULL PIPE VELOCITY (m/s)	0.21
PART FULL VELOCITY (m/s)	1.52
PIPE FLOW (cumecs)	0.023
PIPE CAPACITY AT GRADE (cumecs)	0.277
DATUM RL	31.0
WSE IN STRUCTURE	47.347
HGL IN PIPE	47.332
DEPTH OF INVERT BELOW FSL	1.437
INVERT LEVEL	47.223
FINISHED (& EXISTING) SURFACE LEVEL	48.731 (48.499)
CHAINAGE	12.324

STRUCTURE NAME	1/9A	16A/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.39
PART FULL VELOCITY (m/s)	1.32
PIPE FLOW (cumecs)	0.044
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	31.0
WSE IN STRUCTURE	47.886
HGL IN PIPE	47.809
DEPTH OF INVERT BELOW FSL	1.335
INVERT LEVEL	47.659
FINISHED (& EXISTING) SURFACE LEVEL	49.043 (48.277)
CHAINAGE	6.720

STRUCTURE NAME	1/10	16A/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.24
PART FULL VELOCITY (m/s)	1.15
PIPE FLOW (cumecs)	0.027
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	31.0
WSE IN STRUCTURE	47.792
HGL IN PIPE	47.762
DEPTH OF INVERT BELOW FSL	1.317
INVERT LEVEL	47.644
FINISHED (& EXISTING) SURFACE LEVEL	49.043 (48.957)
CHAINAGE	7.944

STRUCTURE NAME	1/11	17/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.34
PART FULL VELOCITY (m/s)	1.38
PIPE FLOW (cumecs)	0.055
PIPE CAPACITY AT GRADE (cumecs)	0.285
DATUM RL	31.0
WSE IN STRUCTURE	47.445
HGL IN PIPE	47.586
DEPTH OF INVERT BELOW FSL	1.398
INVERT LEVEL	47.225
FINISHED (& EXISTING) SURFACE LEVEL	48.731 (49.219)
CHAINAGE	7.874

STRUCTURE NAME	5/12	18/1
STRUCTURE DESCRIPTION	FUTURE IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 2100mm DIA

PIPE SIZE (mm)	525
PIPE CLASS	2
PIPE GRADE (%)	1.26%
PIPE SLOPE (1 in X)	79.2
FULL PIPE VELOCITY (m/s)	1.49
PART FULL VELOCITY (m/s)	2.39
PIPE FLOW (cumecs)	0.323
PIPE CAPACITY AT GRADE (cumecs)	0.484
DATUM RL	31.0
WSE IN STRUCTURE	47.685
HGL IN PIPE	47.603
DEPTH OF INVERT BELOW FSL	1.642
INVERT LEVEL	47.217
FINISHED (& EXISTING) SURFACE LEVEL	48.550 (49.099)
CHAINAGE	11.796

STRUCTURE NAME	2/13	16/1
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.30
PART FULL VELOCITY (m/s)	1.22
PIPE FLOW (cumecs)	0.033
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	32.0
WSE IN STRUCTURE	48.555
HGL IN PIPE	48.490
DEPTH OF INVERT BELOW FSL	1.186
INVERT LEVEL	48.359
FINISHED (& EXISTING) SURFACE LEVEL	49.480 (48.521)
CHAINAGE	14.705

FOR CONSTRUCTION

01/03/2024	B	AMENDED LONG SECTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

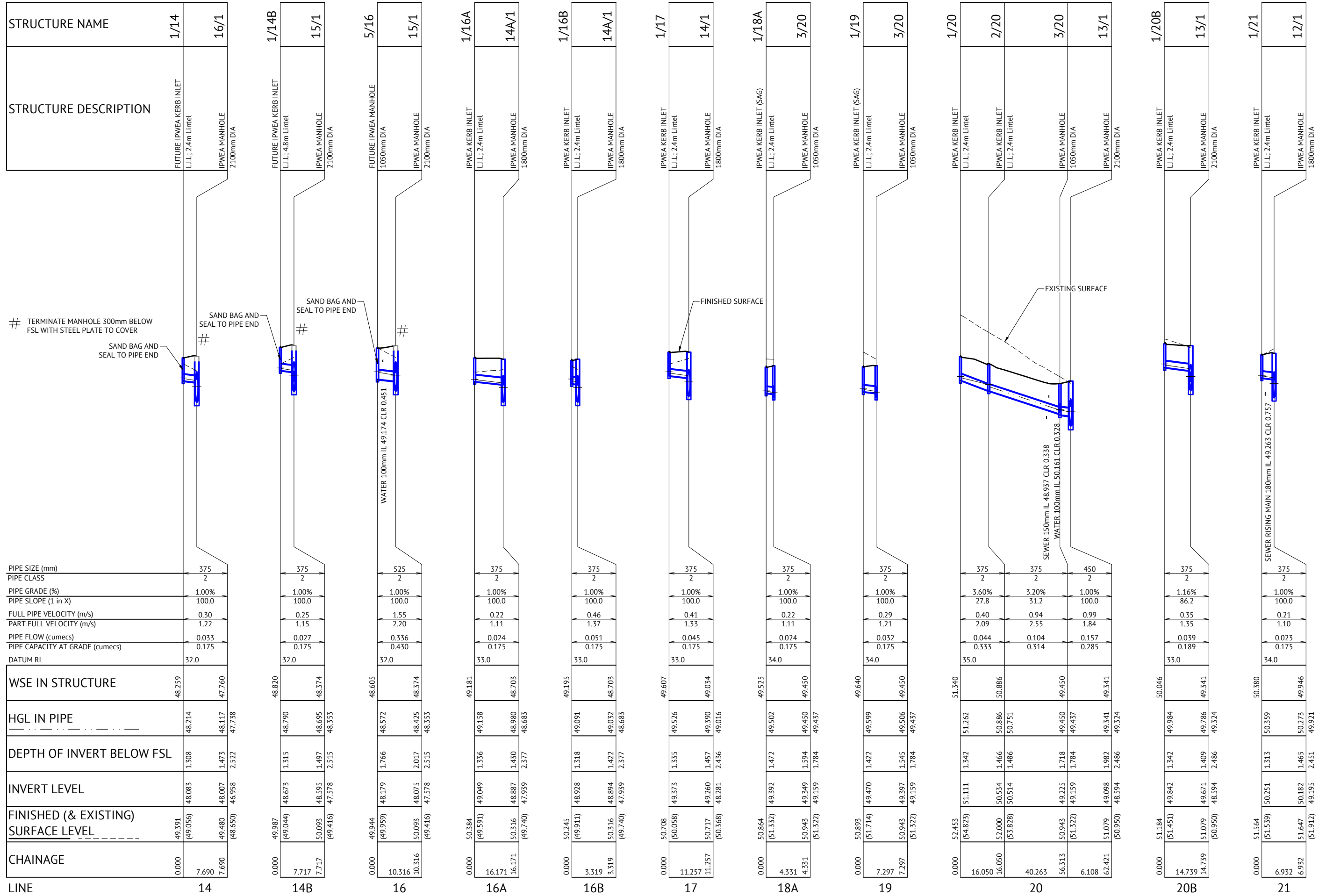
Premise
 BRISBANE OFFICE
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DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 2

JOB CODE
MIR-1004
 SHEET NUMBER
C411
 REV
B



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.30
PART FULL VELOCITY (m/s)	1.22
PIPE FLOW (cumecs)	0.033
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	32.0
WSE IN STRUCTURE	48.259
HGL IN PIPE	48.214
DEPTH OF INVERT BELOW FSL	1.308
INVERT LEVEL	48.083
FINISHED (& EXISTING) SURFACE LEVEL	49.391
CHAINAGE	0.000

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.15
PIPE FLOW (cumecs)	0.027
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	32.0
WSE IN STRUCTURE	48.820
HGL IN PIPE	48.790
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	48.673
FINISHED (& EXISTING) SURFACE LEVEL	49.987
CHAINAGE	7.717

PIPE SIZE (mm)	525
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	1.55
PART FULL VELOCITY (m/s)	2.20
PIPE FLOW (cumecs)	0.336
PIPE CAPACITY AT GRADE (cumecs)	0.430
DATUM RL	32.0
WSE IN STRUCTURE	48.605
HGL IN PIPE	48.572
DEPTH OF INVERT BELOW FSL	1.766
INVERT LEVEL	48.179
FINISHED (& EXISTING) SURFACE LEVEL	49.944
CHAINAGE	10.316

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.22
PART FULL VELOCITY (m/s)	1.11
PIPE FLOW (cumecs)	0.024
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0
WSE IN STRUCTURE	49.181
HGL IN PIPE	49.158
DEPTH OF INVERT BELOW FSL	1.336
INVERT LEVEL	49.049
FINISHED (& EXISTING) SURFACE LEVEL	50.384
CHAINAGE	16.171

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.46
PART FULL VELOCITY (m/s)	1.37
PIPE FLOW (cumecs)	0.051
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0
WSE IN STRUCTURE	49.195
HGL IN PIPE	49.091
DEPTH OF INVERT BELOW FSL	1.318
INVERT LEVEL	48.928
FINISHED (& EXISTING) SURFACE LEVEL	50.245
CHAINAGE	3.319

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.41
PART FULL VELOCITY (m/s)	1.33
PIPE FLOW (cumecs)	0.045
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	33.0
WSE IN STRUCTURE	49.607
HGL IN PIPE	49.526
DEPTH OF INVERT BELOW FSL	1.335
INVERT LEVEL	49.373
FINISHED (& EXISTING) SURFACE LEVEL	50.708
CHAINAGE	11.257

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.22
PART FULL VELOCITY (m/s)	1.11
PIPE FLOW (cumecs)	0.024
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0
WSE IN STRUCTURE	49.525
HGL IN PIPE	49.502
DEPTH OF INVERT BELOW FSL	1.472
INVERT LEVEL	49.392
FINISHED (& EXISTING) SURFACE LEVEL	50.864
CHAINAGE	4.331

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.29
PART FULL VELOCITY (m/s)	1.21
PIPE FLOW (cumecs)	0.032
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0
WSE IN STRUCTURE	49.640
HGL IN PIPE	49.599
DEPTH OF INVERT BELOW FSL	1.422
INVERT LEVEL	49.470
FINISHED (& EXISTING) SURFACE LEVEL	50.893
CHAINAGE	7.297

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.60%
PIPE SLOPE (1 in X)	27.8
FULL PIPE VELOCITY (m/s)	0.40
PART FULL VELOCITY (m/s)	2.09
PIPE FLOW (cumecs)	0.044
PIPE CAPACITY AT GRADE (cumecs)	0.333
DATUM RL	35.0
WSE IN STRUCTURE	51.340
HGL IN PIPE	51.262
DEPTH OF INVERT BELOW FSL	1.342
INVERT LEVEL	51.111
FINISHED (& EXISTING) SURFACE LEVEL	52.453
CHAINAGE	16.050

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.20%
PIPE SLOPE (1 in X)	31.2
FULL PIPE VELOCITY (m/s)	0.94
PART FULL VELOCITY (m/s)	2.55
PIPE FLOW (cumecs)	0.104
PIPE CAPACITY AT GRADE (cumecs)	0.314
DATUM RL	35.0
WSE IN STRUCTURE	50.886
HGL IN PIPE	50.886
DEPTH OF INVERT BELOW FSL	1.466
INVERT LEVEL	50.534
FINISHED (& EXISTING) SURFACE LEVEL	52.000
CHAINAGE	16.050

PIPE SIZE (mm)	450
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.99
PART FULL VELOCITY (m/s)	1.84
PIPE FLOW (cumecs)	0.157
PIPE CAPACITY AT GRADE (cumecs)	0.285
DATUM RL	35.0
WSE IN STRUCTURE	49.450
HGL IN PIPE	49.437
DEPTH OF INVERT BELOW FSL	1.784
INVERT LEVEL	49.159
FINISHED (& EXISTING) SURFACE LEVEL	51.079
CHAINAGE	6.108

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.16%
PIPE SLOPE (1 in X)	86.2
FULL PIPE VELOCITY (m/s)	0.35
PART FULL VELOCITY (m/s)	1.35
PIPE FLOW (cumecs)	0.039
PIPE CAPACITY AT GRADE (cumecs)	0.189
DATUM RL	33.0
WSE IN STRUCTURE	50.046
HGL IN PIPE	49.984
DEPTH OF INVERT BELOW FSL	1.342
INVERT LEVEL	49.842
FINISHED (& EXISTING) SURFACE LEVEL	51.184
CHAINAGE	14.739

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.21
PART FULL VELOCITY (m/s)	1.10
PIPE FLOW (cumecs)	0.023
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0
WSE IN STRUCTURE	50.380
HGL IN PIPE	50.359
DEPTH OF INVERT BELOW FSL	1.313
INVERT LEVEL	50.251
FINISHED (& EXISTING) SURFACE LEVEL	51.564
CHAINAGE	6.932

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
			REC APP

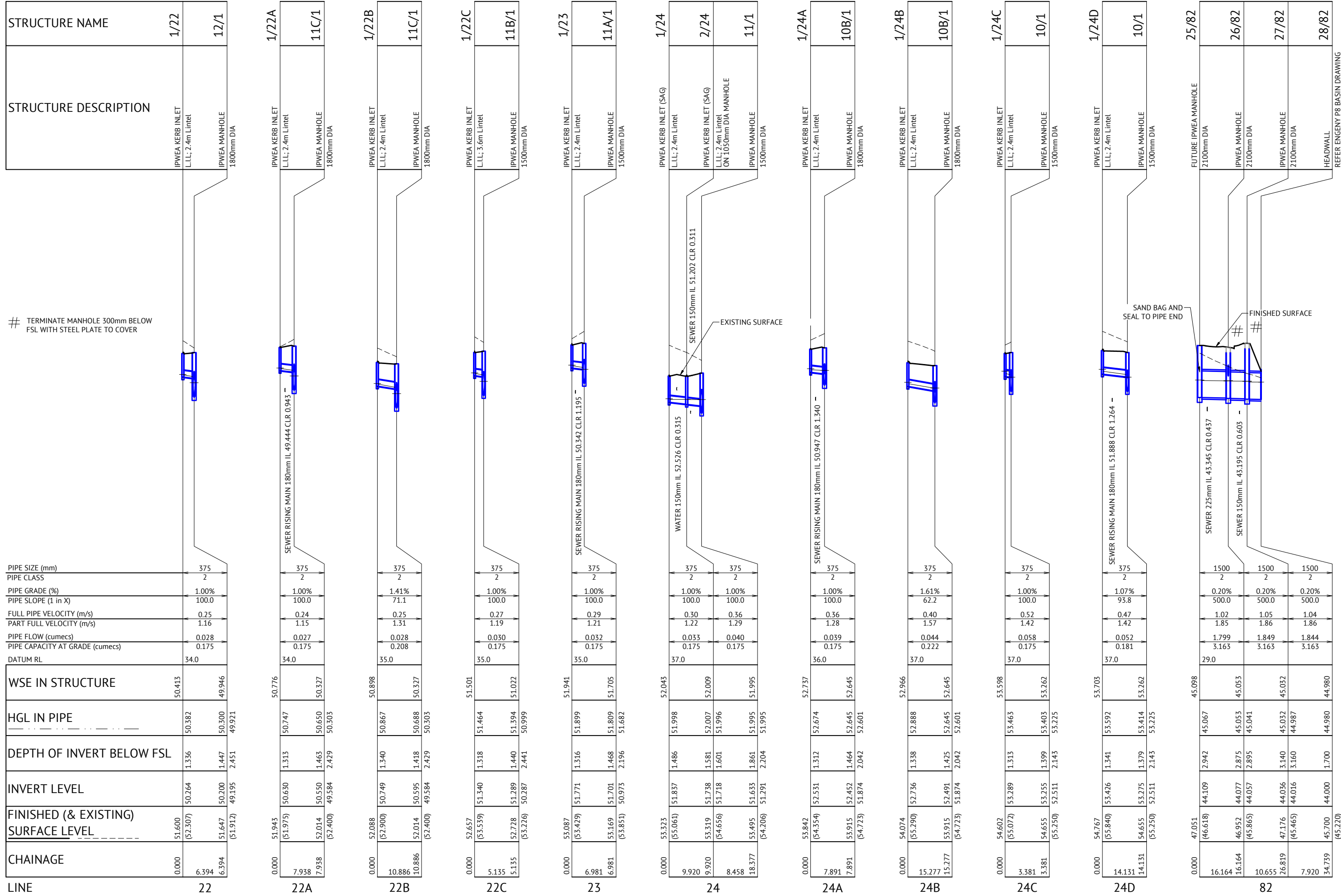
Premise
 BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
 PH: (07) 3253 2222
 WEB: www.premise.com.au

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

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

CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 STORMWATER DRAINAGE LONG SECTIONS - SHEET 3

JOB CODE
 MIR-1004
 SHEET NUMBER
 C412
 REV
 B



TERMINATE MANHOLE 300mm BELOW FSL WITH STEEL PLATE TO COVER

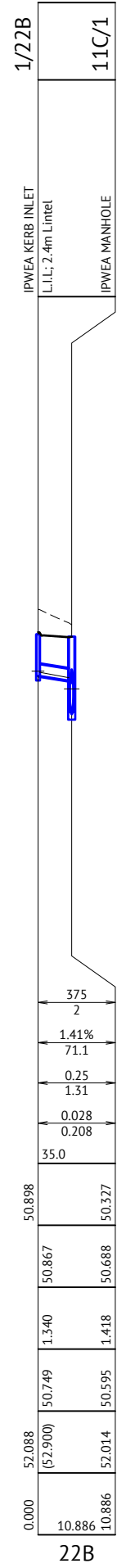
PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.25
PART FULL VELOCITY (m/s)	1.16
PIPE FLOW (cumecs)	0.028
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	50.413
HGL IN PIPE	50.382
DEPTH OF INVERT BELOW FSL	1.336
INVERT LEVEL	50.264
FINISHED (& EXISTING) SURFACE LEVEL	51.600 (52.307)
CHAINAGE	0.000 6.394

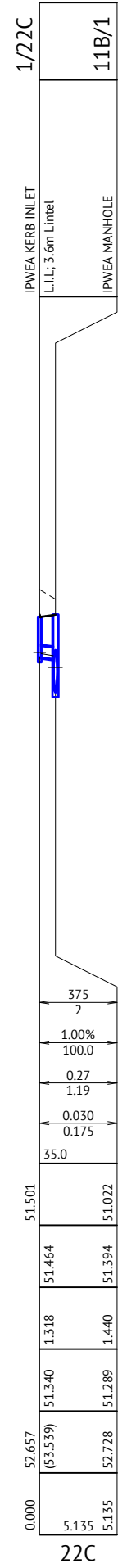
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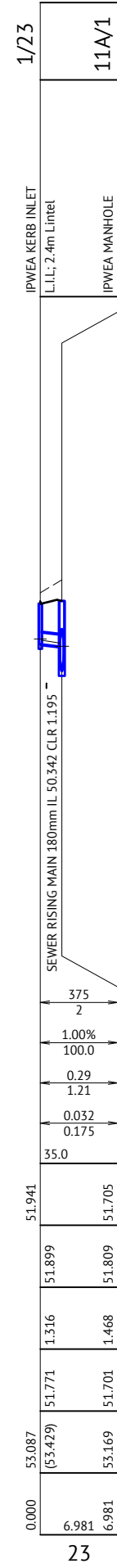
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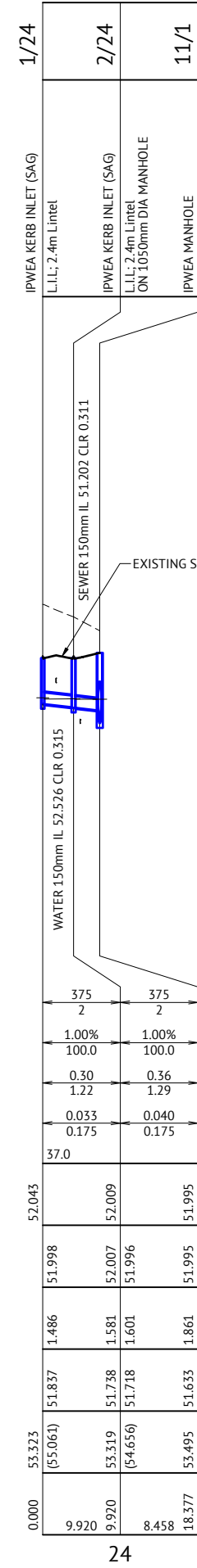
LINE 22B



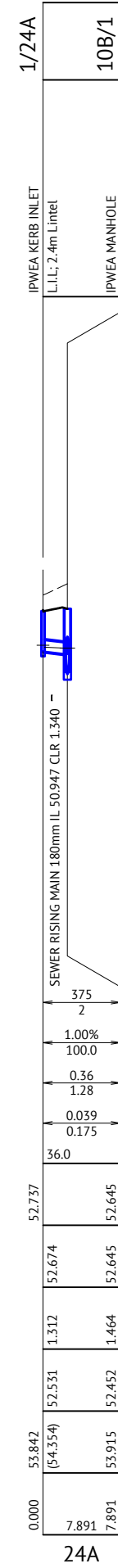
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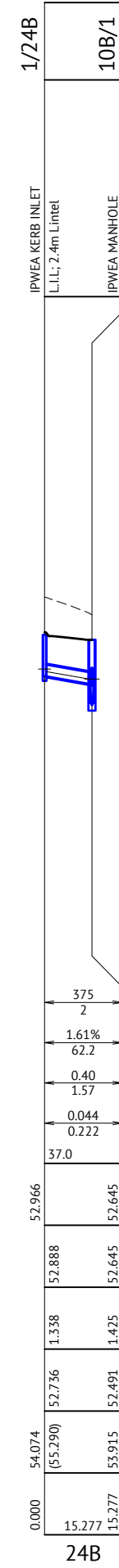
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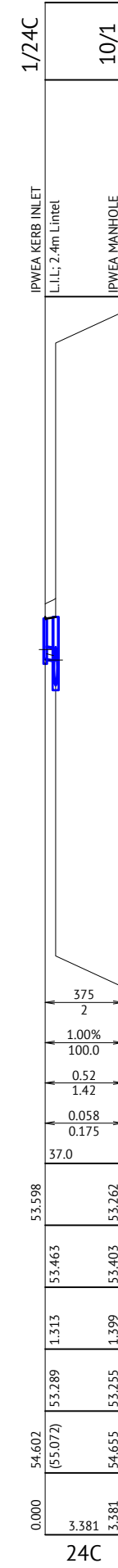
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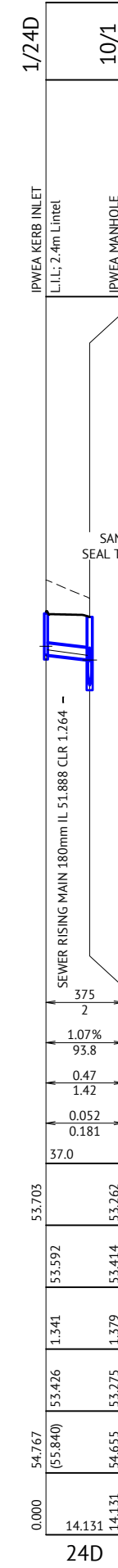
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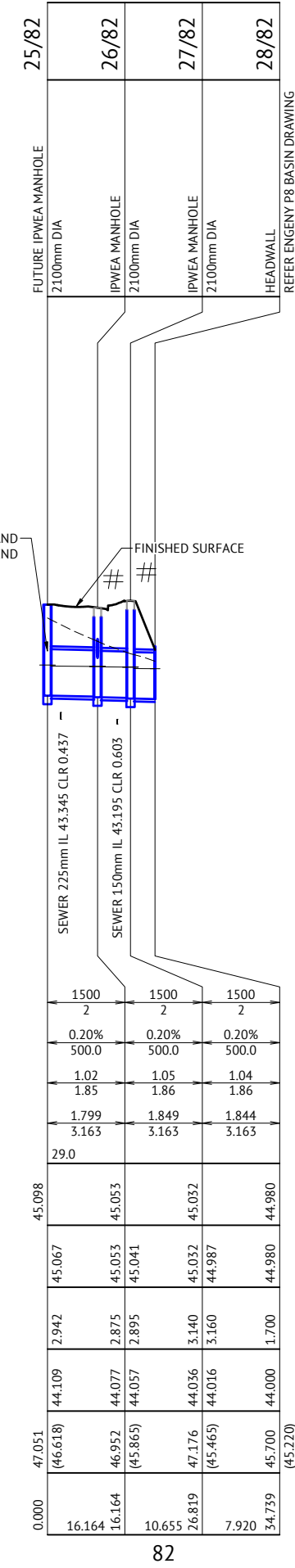
LINE 24B



LINE 24C



LINE 24D



LINE 82

FOR CONSTRUCTION

01/03/2024	B	ISSUED FOR CONSTRUCTION		
20/10/2023	A	ISSUED FOR APPROVAL		
DATE	REV	DESCRIPTION	REVISIONS	

Premise
 BRISBANE OFFICE
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 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 4

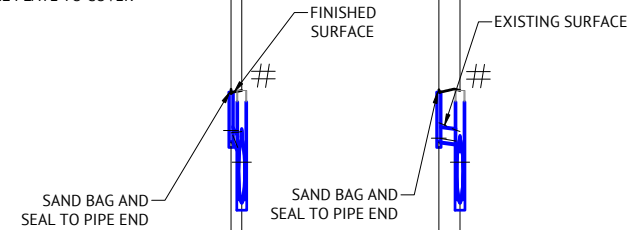
JOB CODE
MIR-1004
 SHEET NUMBER
C413
 REV
B

REFER ENGENY P8 BASIN DRAWING SET M4500-029 FOR OUTLET DETAILS

STRUCTURE NAME	1/83	26/82
STRUCTURE DESCRIPTION	FUTURE IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

1/84	26/82
FUTURE IPWEA KERB INLET (SAG) L.L.L: 2.4m Lintel	IPWEA MANHOLE 2100mm DIA

TERMINATE MANHOLE 300mm BELOW FSL WITH STEEL PLATE TO COVER



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	8.26%
PIPE SLOPE (1 in X)	12.1
FULL PIPE VELOCITY (m/s)	0.51
PART FULL VELOCITY (m/s)	3.01
PIPE FLOW (cumecs)	0.056
PIPE CAPACITY AT GRADE (cumecs)	0.504
DATUM RL	29.0

375	2
1.00%	100.0
0.14	0.98
0.015	0.175
29.0	

WSE IN STRUCTURE	45.893	45.053
HGL IN PIPE	45.764	45.442
DEPTH OF INVERT BELOW FSL	1.316	1.595
INVERT LEVEL	45.592	44.057
FINISHED (& EXISTING) SURFACE LEVEL	46.908 (45.828)	46.952 (45.865)
CHAINAGE	0.000	2.846

45.691	45.053
45.682	45.613
1.316	1.414
45.594	44.057
46.910 (46.097)	46.952 (45.865)
0.000	5.587

LINE 83

84

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

Premise
 BRISBANE OFFICE
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 RPEQ 7112

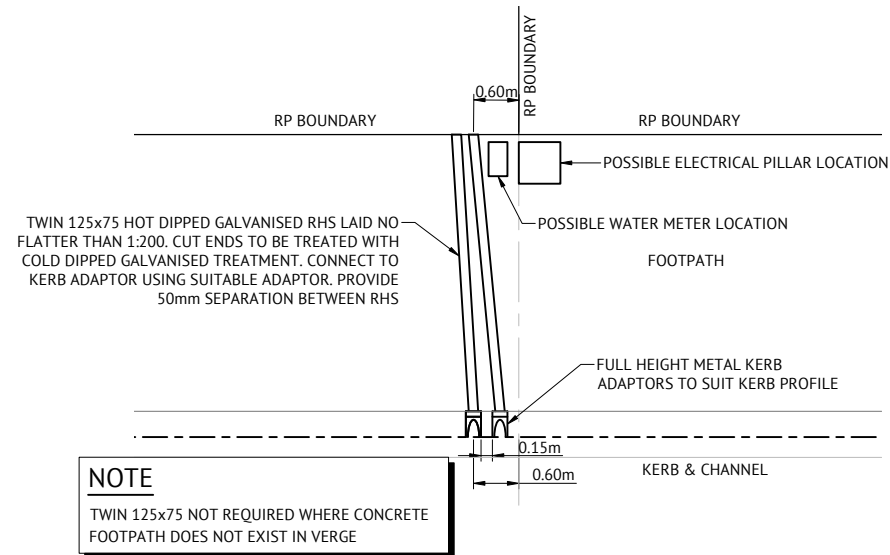
SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 5

JOB CODE
MIR-1004
 SHEET NUMBER
C414
 REV
B

STORMWATER DRAINAGE NOTES

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



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

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

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

EXCAVATION IN ROCK NOTE:

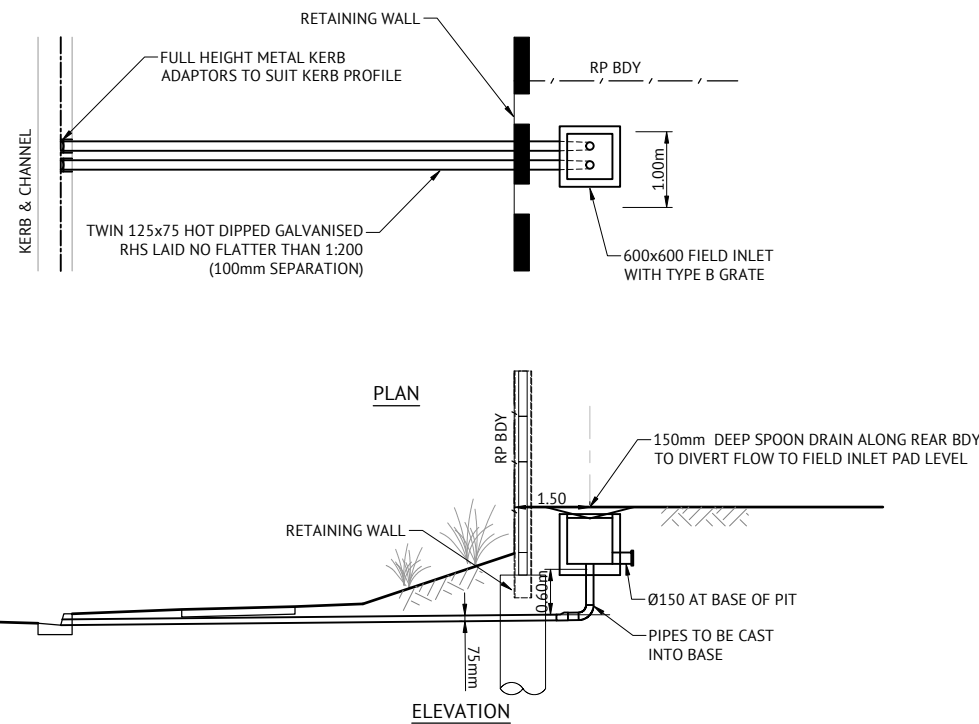
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

TRENCH SPOIL NOTE:

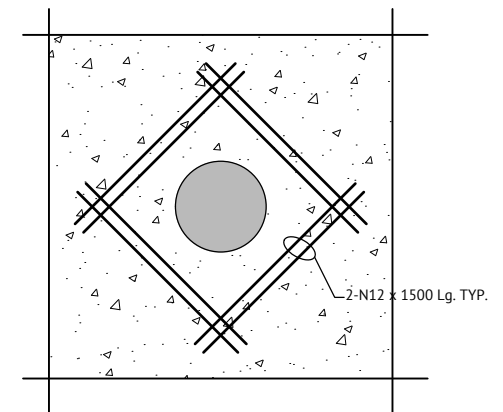
SPOILAGE OF EXCESS MATERIAL TO BE PLACED INTO THE SOUTHERN DAM REHABILITATION AREA INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

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 PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL
N.T.S.



TYPICAL DETAIL
GRADED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

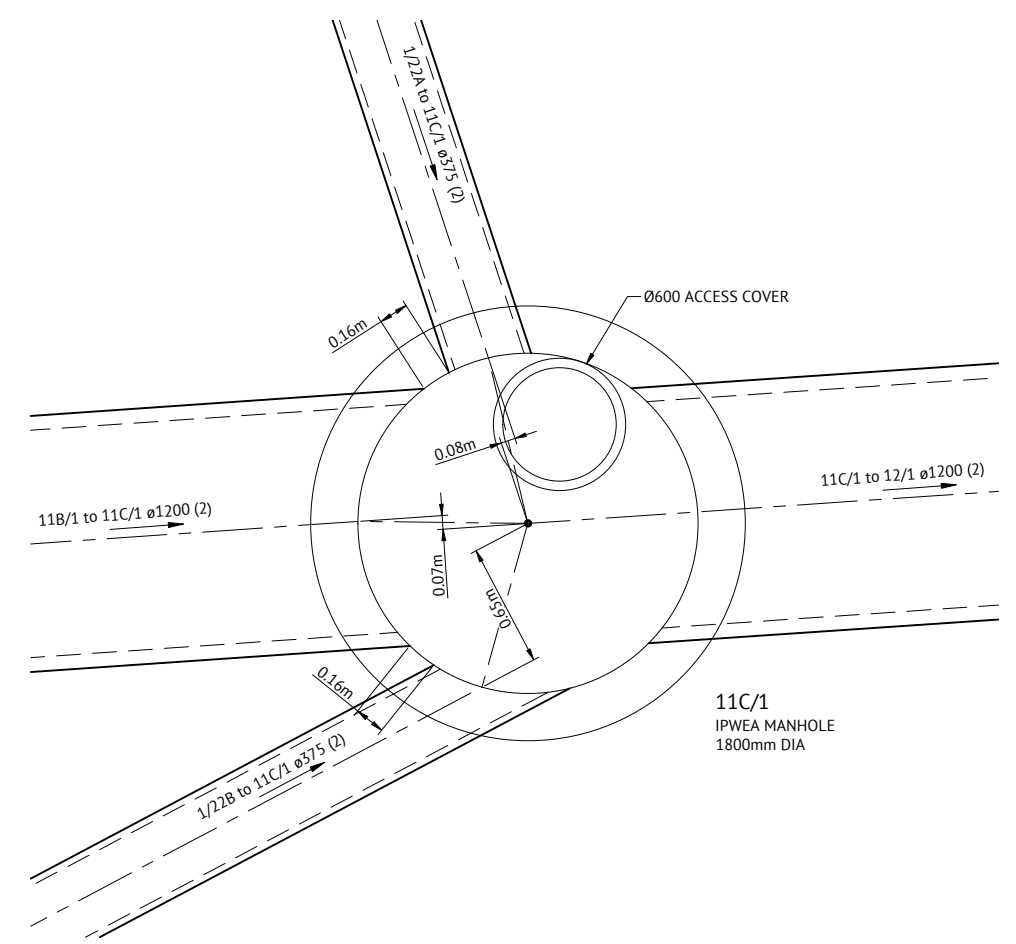
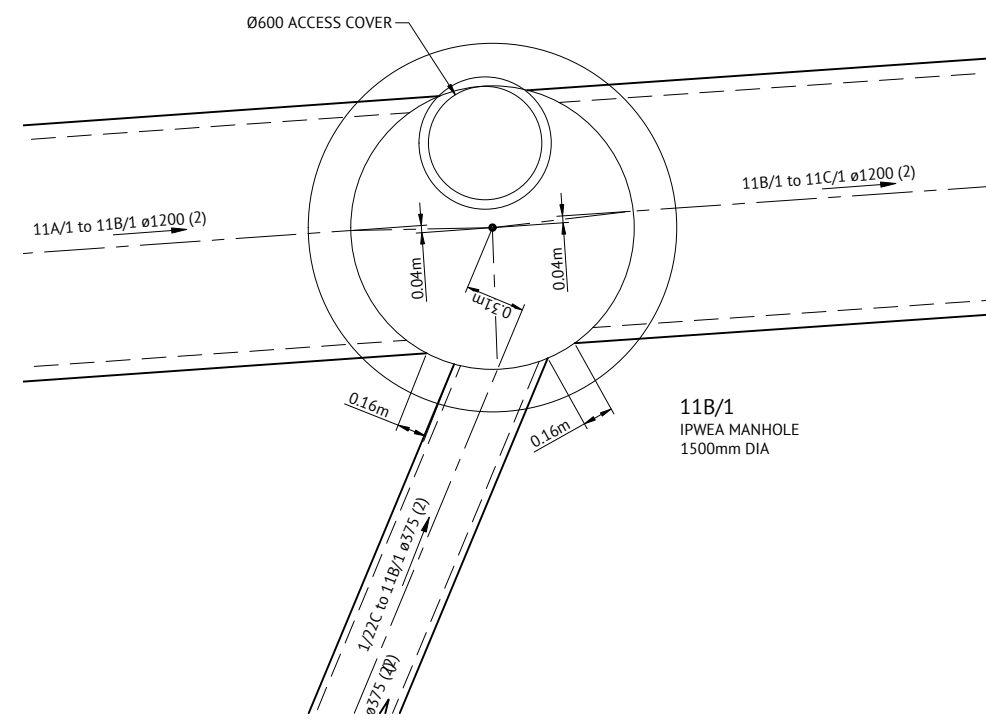
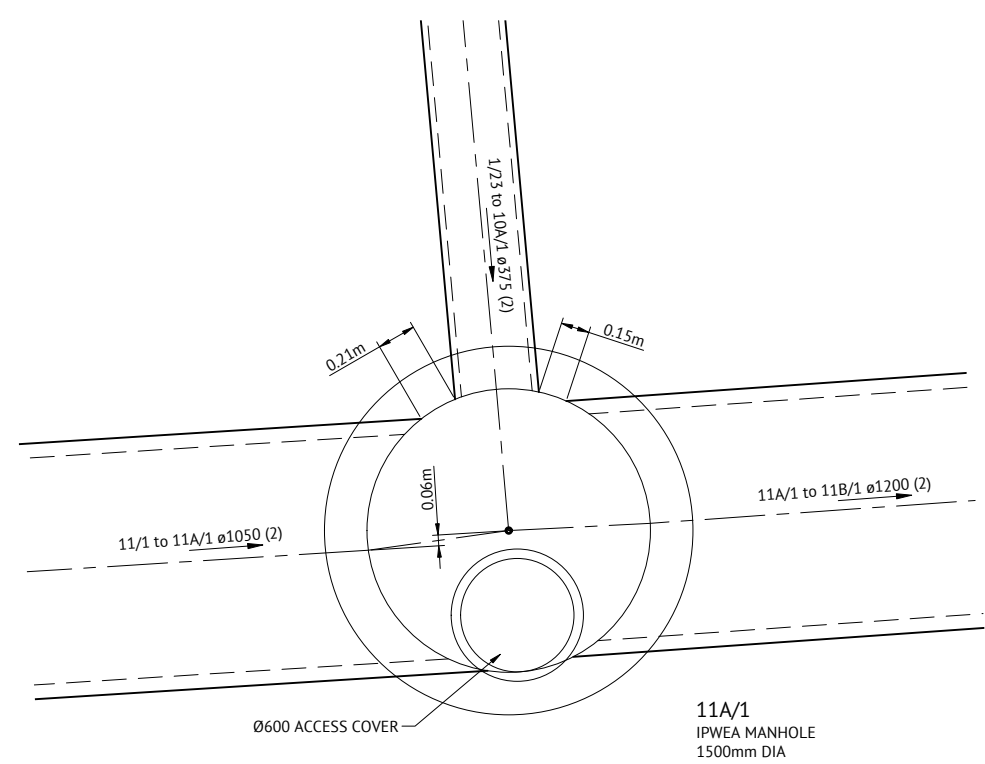
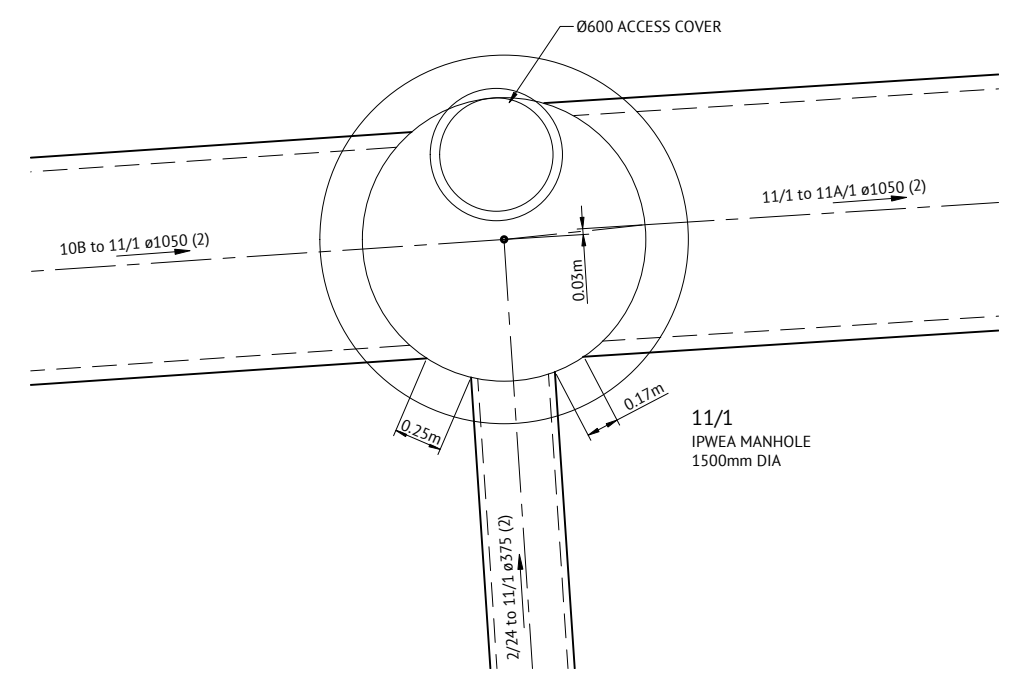
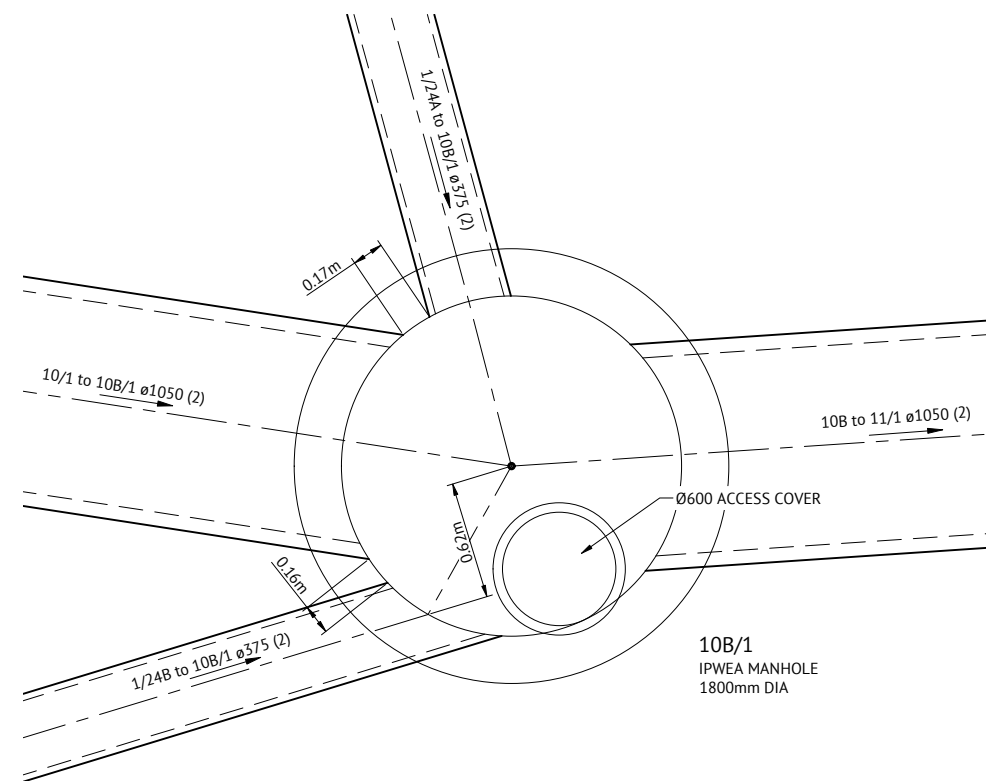
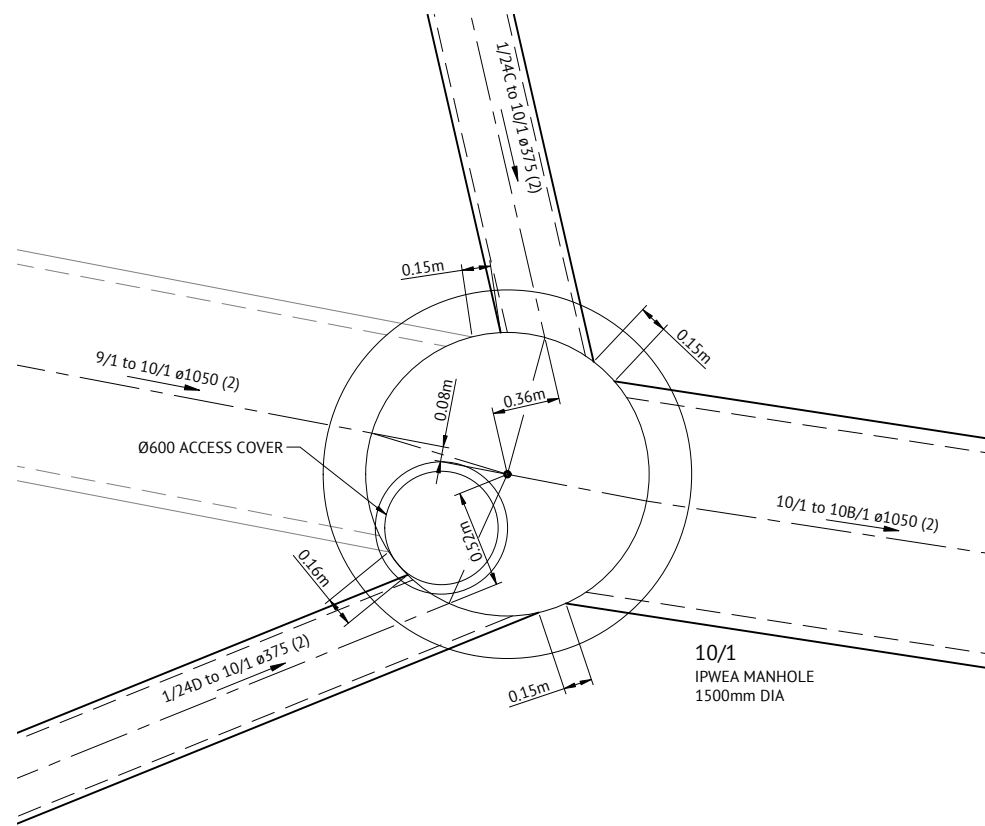
Premise
BRISBANE OFFICE
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BRISBANE, QLD 4000
PH: (07) 3253 2222
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KLYNT KIWANG
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ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE
MIR-1004
SHEET NUMBER
C420
REV
B




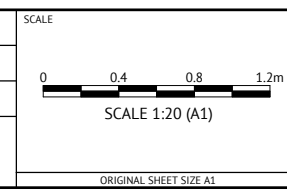
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP



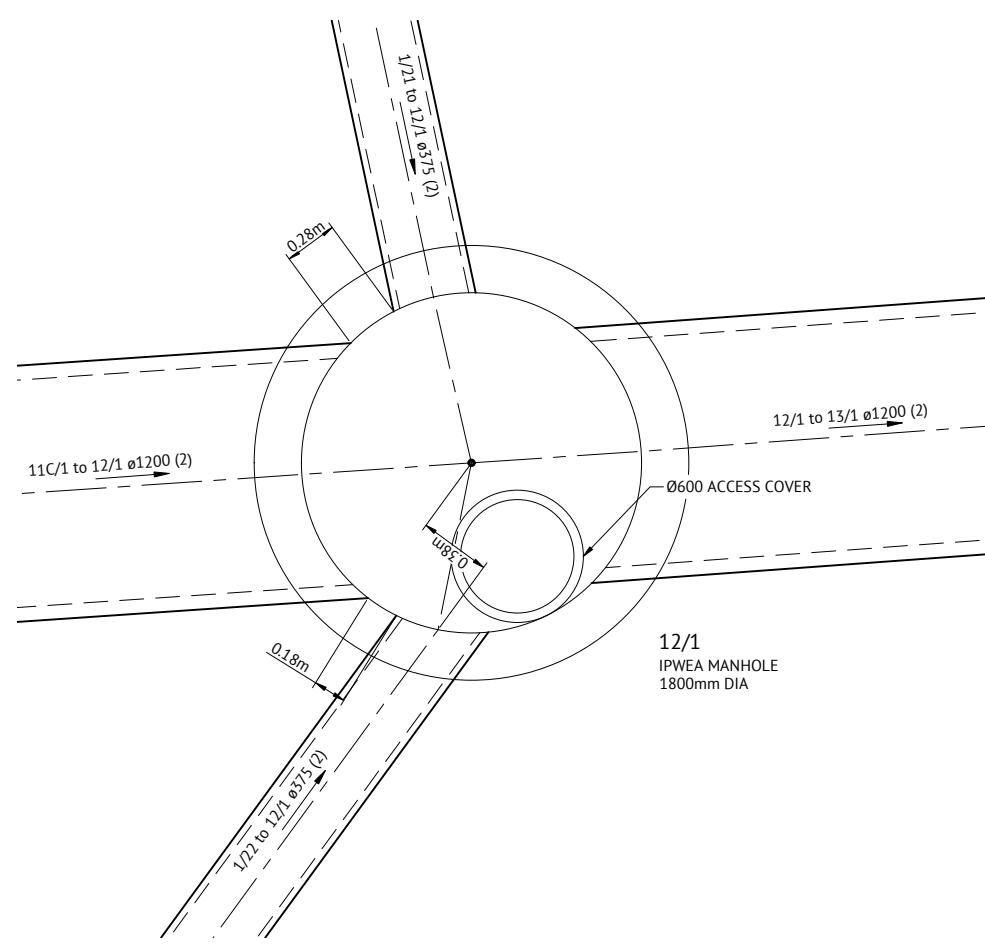
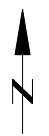
BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
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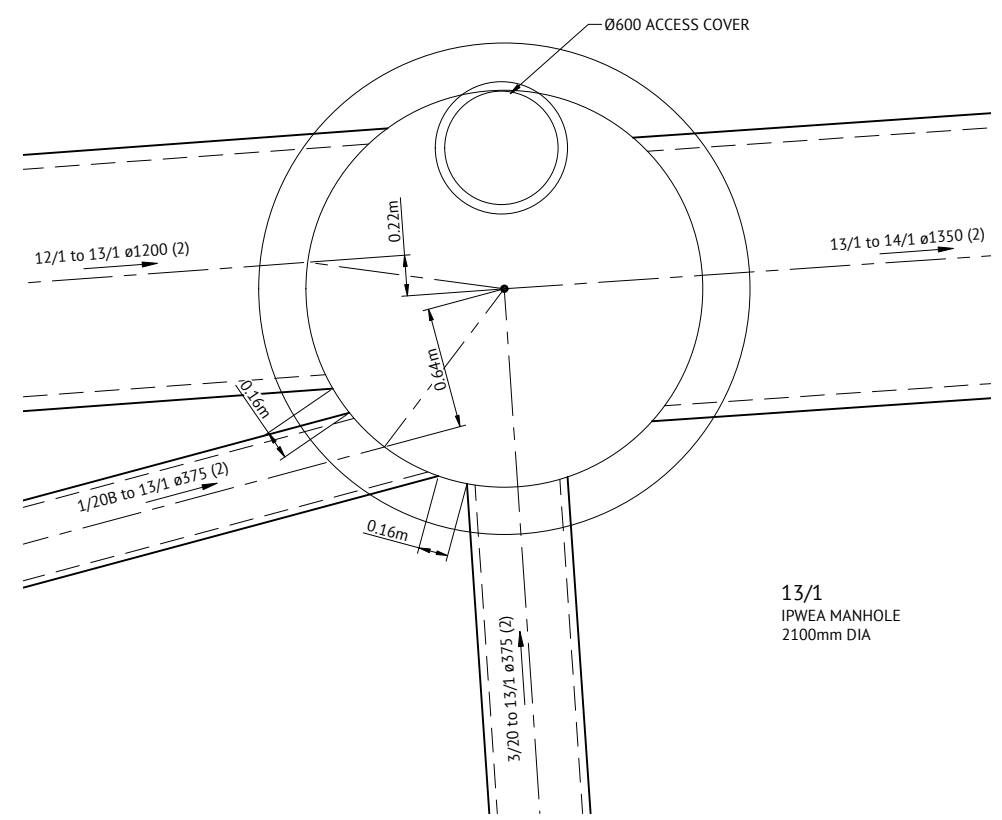


CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 1

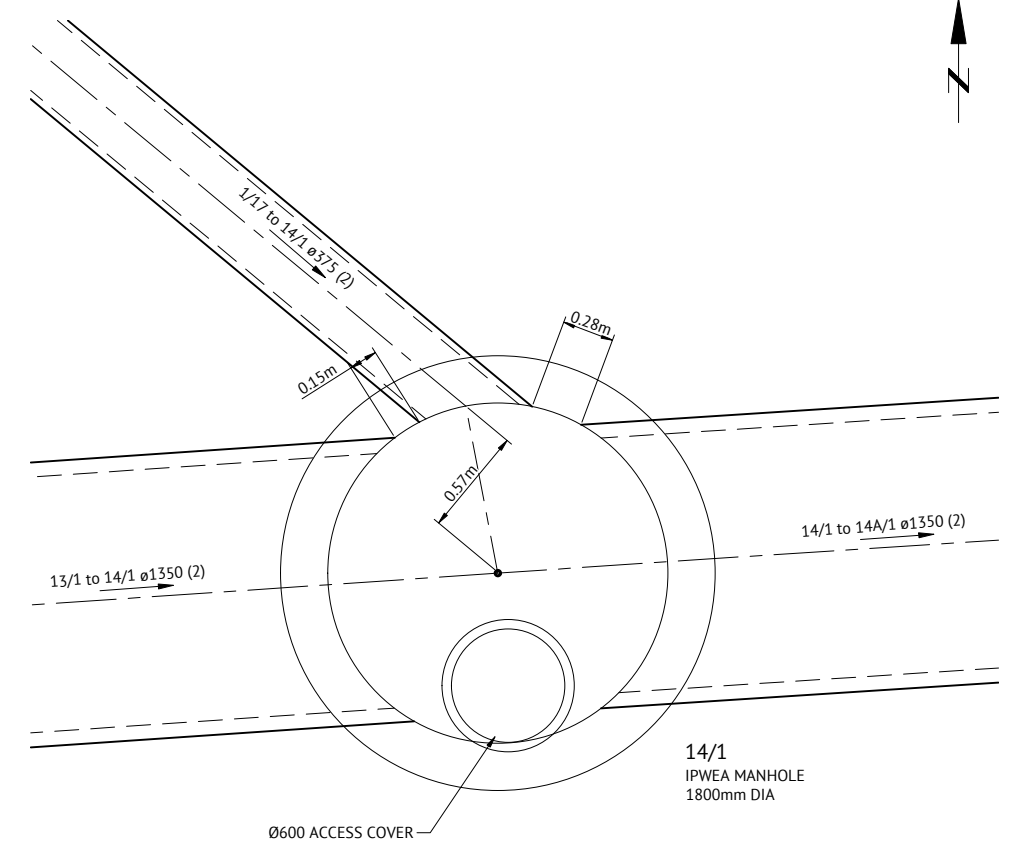
JOB CODE
MIR-1004
 SHEET NUMBER
C430
 REV
B



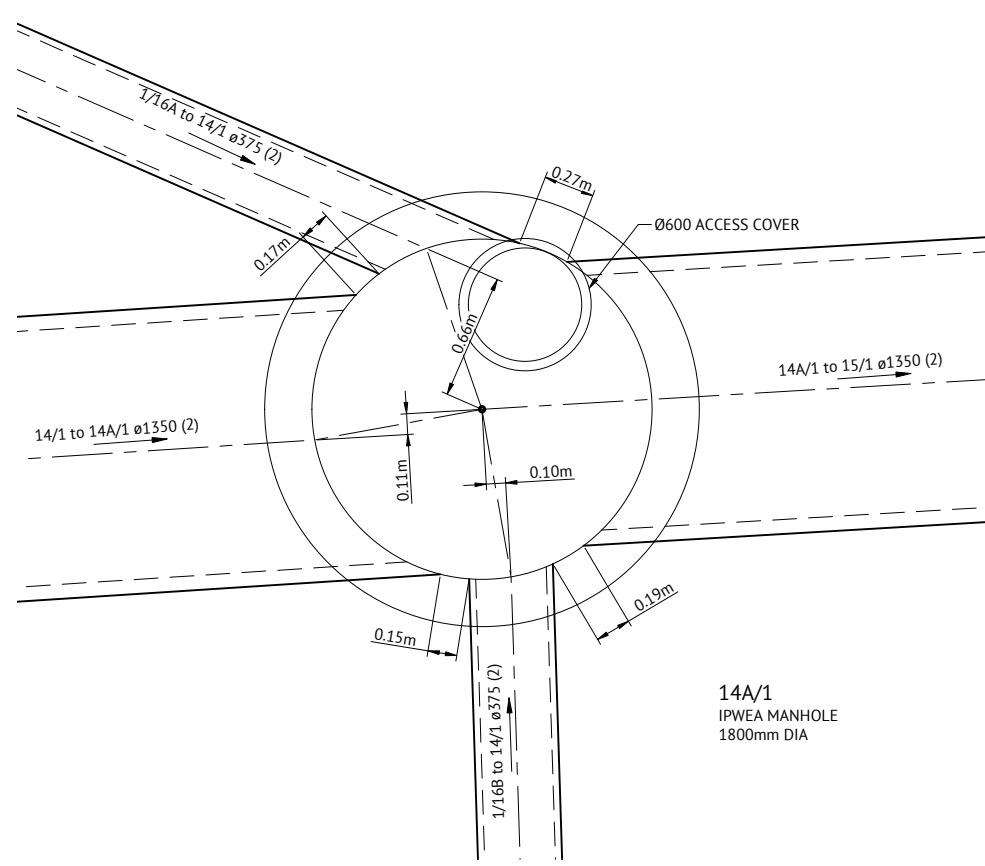
12/1
IPWEA MANHOLE
1800mm DIA



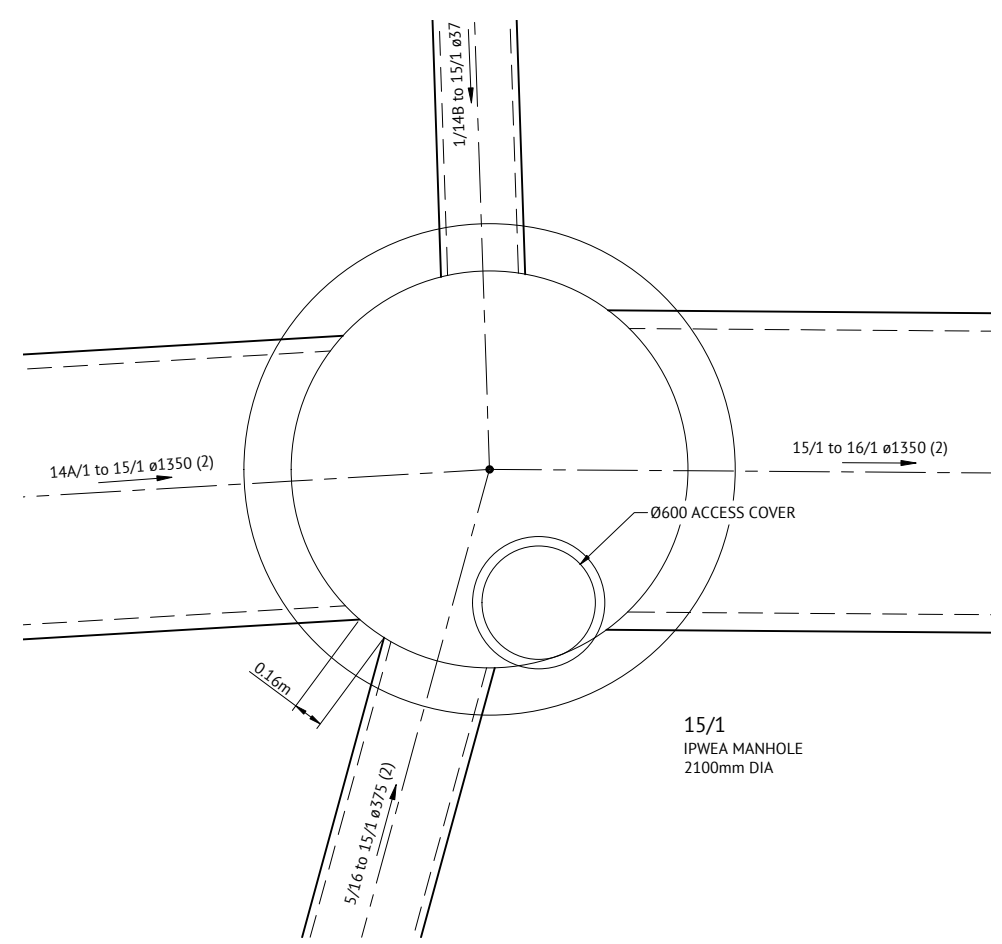
13/1
IPWEA MANHOLE
2100mm DIA



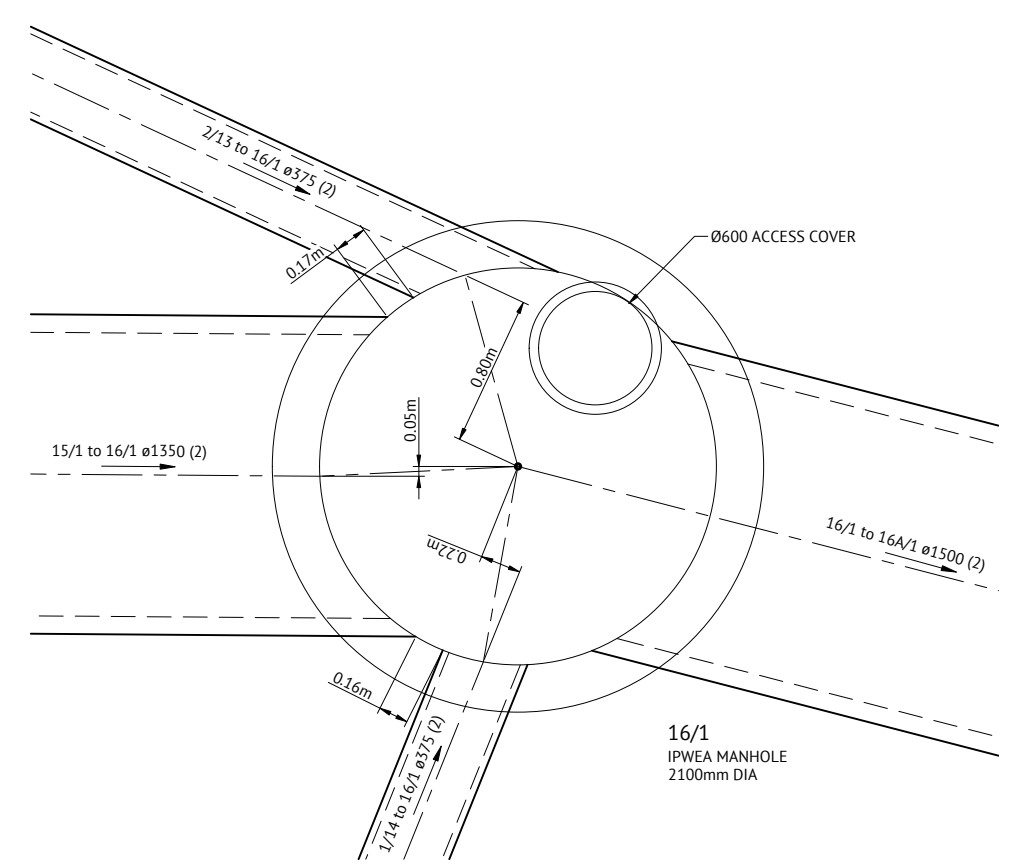
14/1
IPWEA MANHOLE
1800mm DIA



14A/1
IPWEA MANHOLE
1800mm DIA



15/1
IPWEA MANHOLE
2100mm DIA



16/1
IPWEA MANHOLE
2100mm DIA

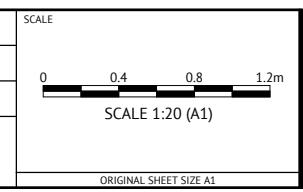
FOR CONSTRUCTION

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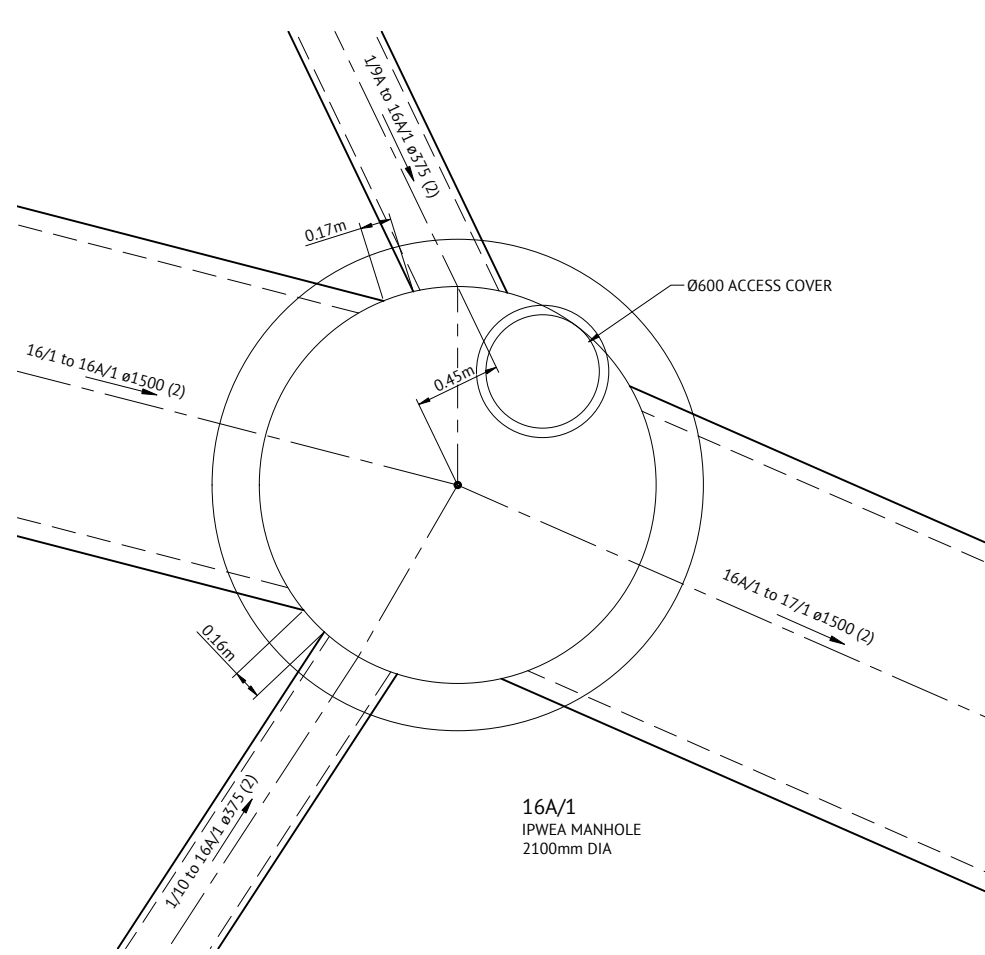
BRISBANE OFFICE
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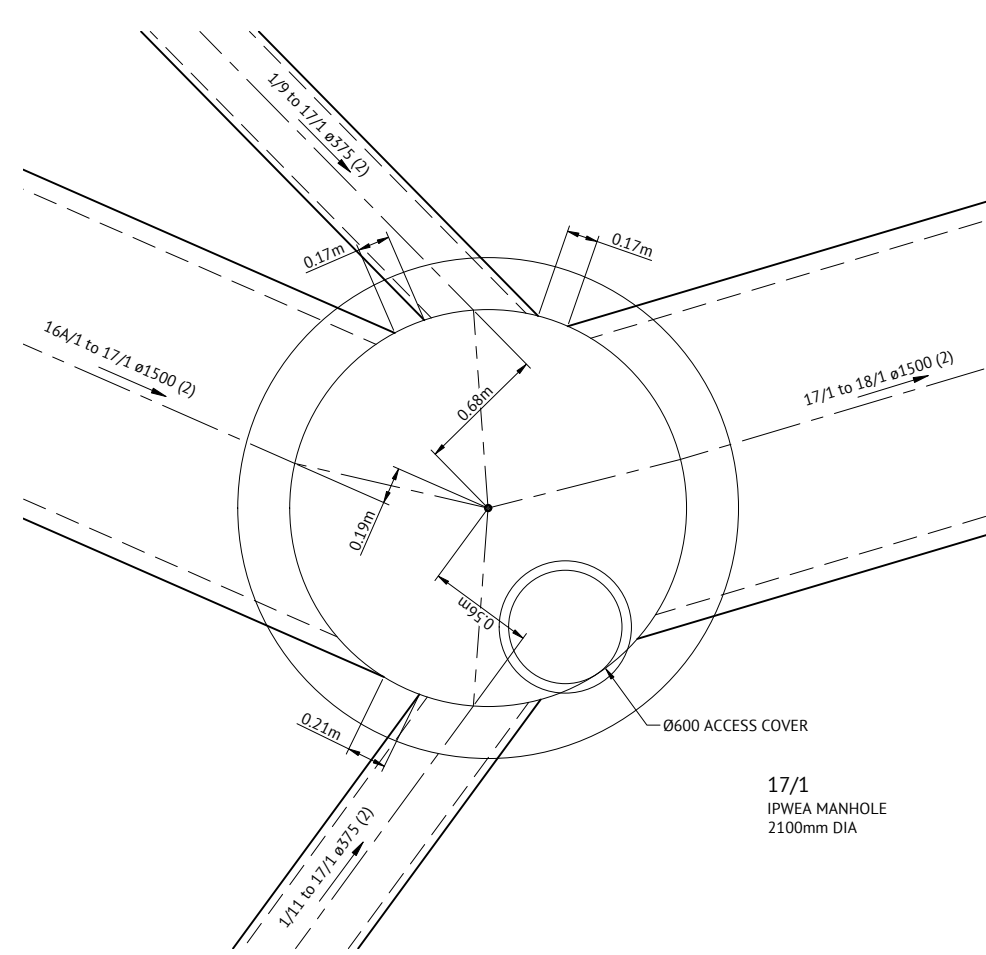


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PROJECT
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LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 2

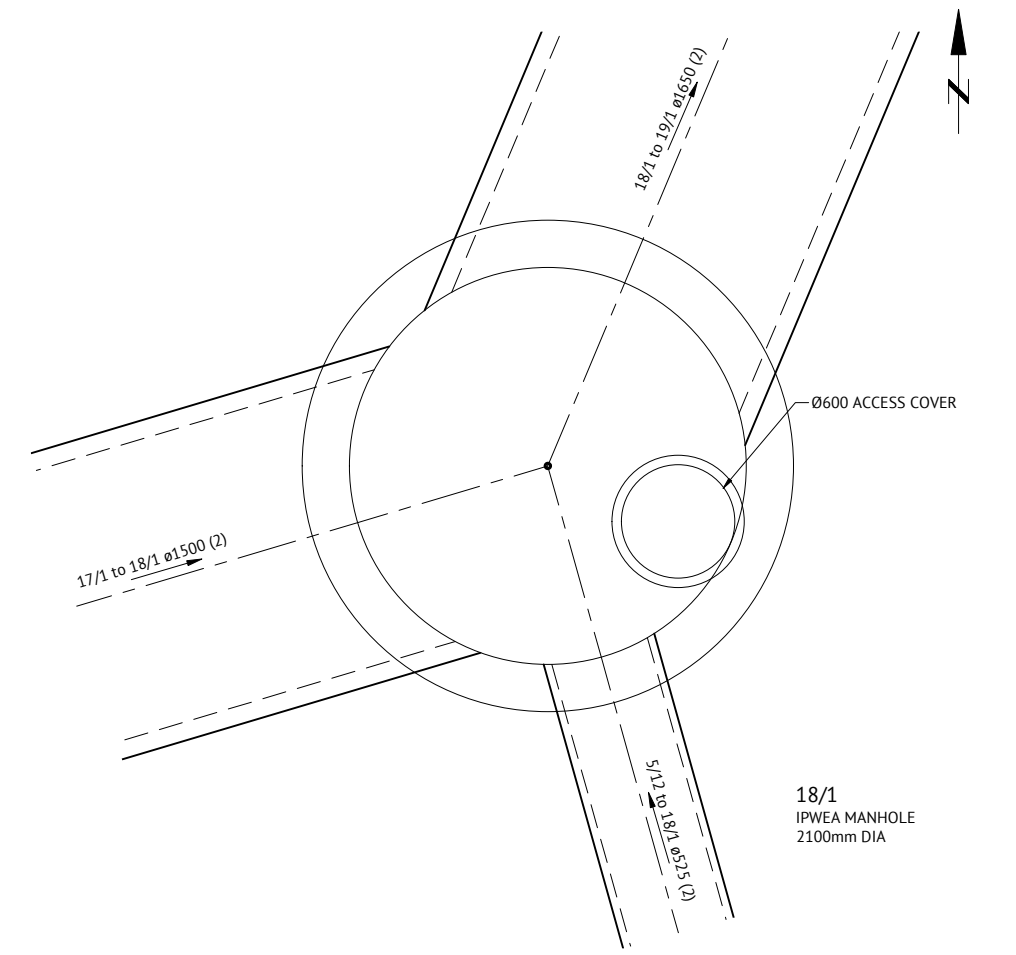
JOB CODE
MIR-1004
SHEET NUMBER
C431
REV
B



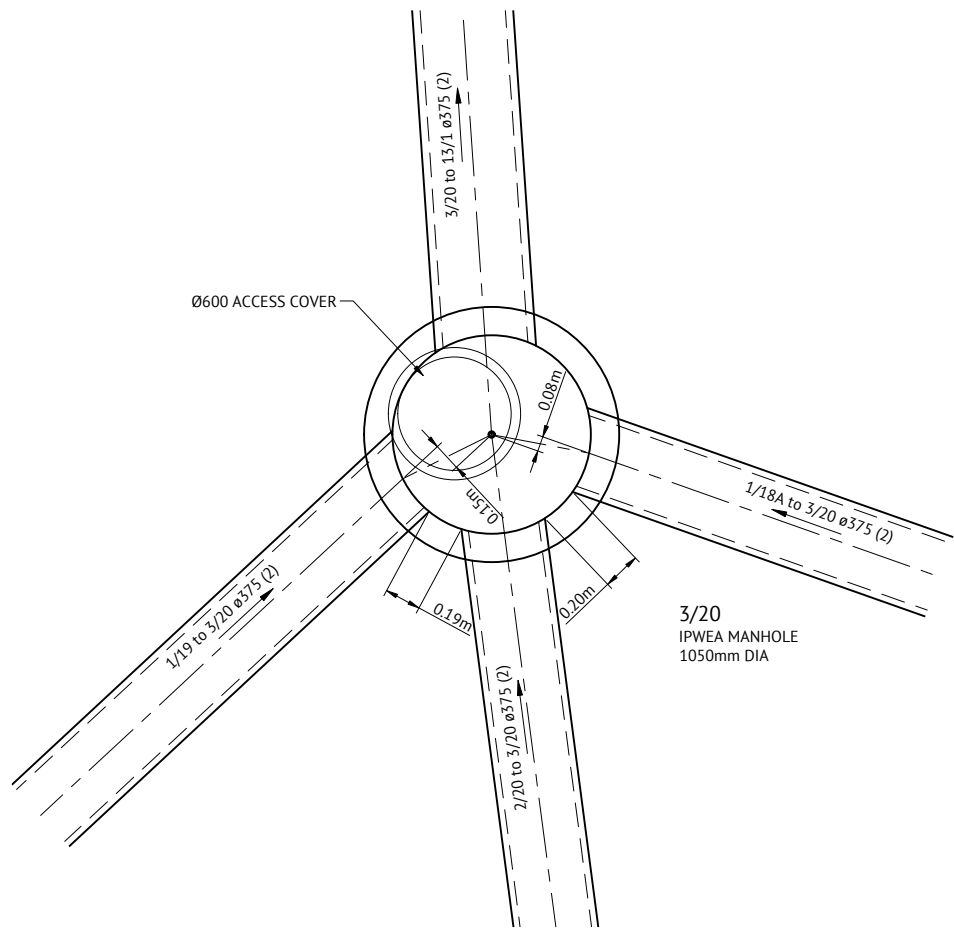
16A/1
IPWEA MANHOLE
2100mm DIA



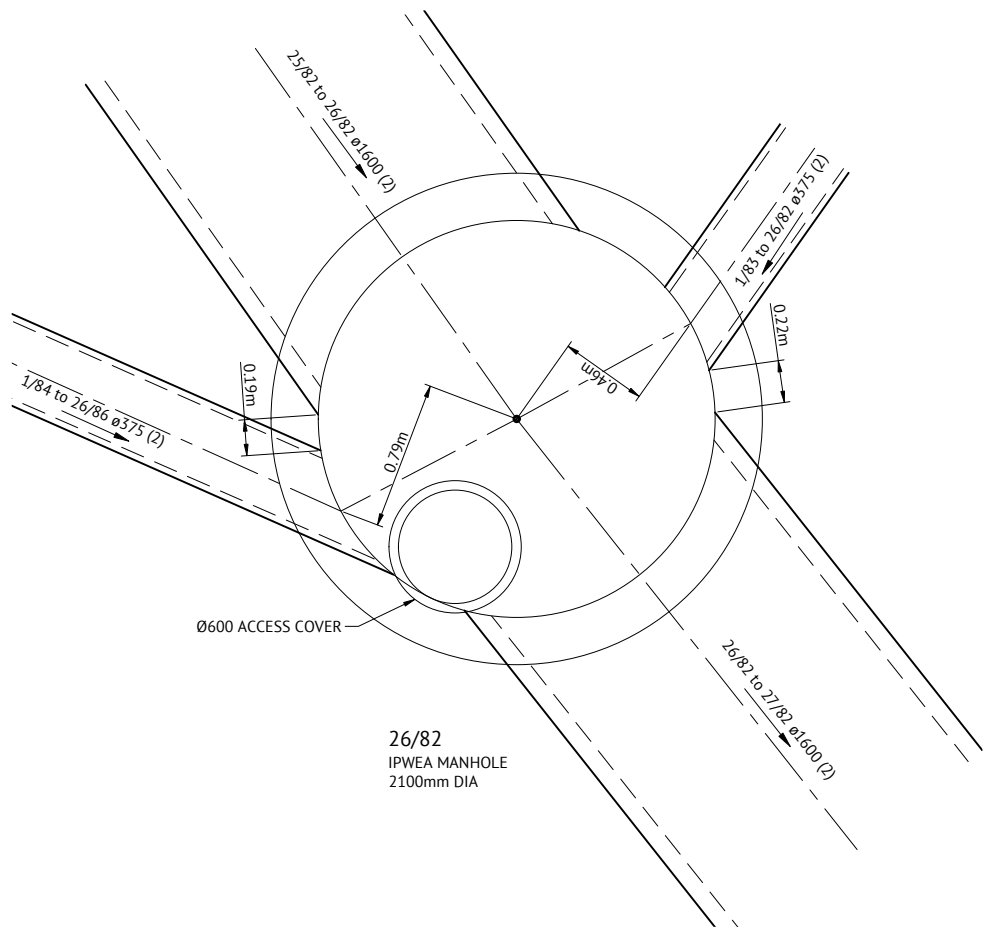
17/1
IPWEA MANHOLE
2100mm DIA



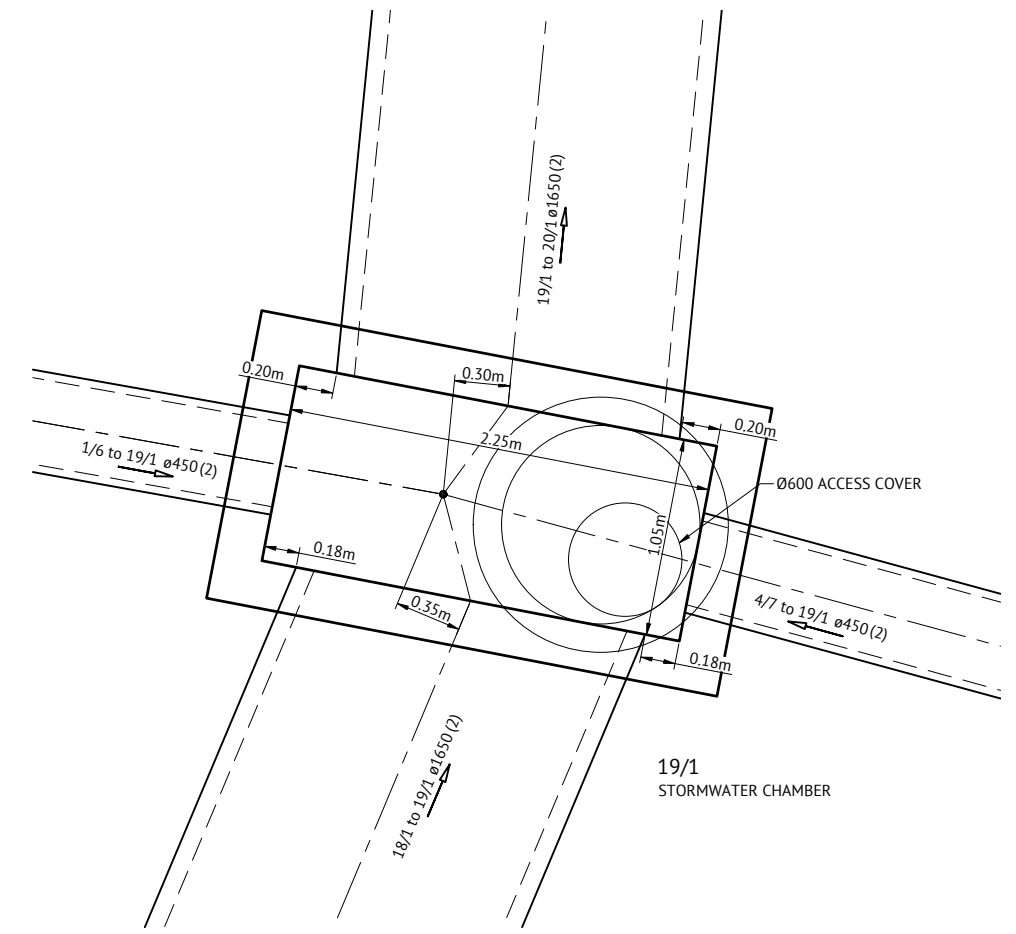
18/1
IPWEA MANHOLE
2100mm DIA



3/20
IPWEA MANHOLE
1050mm DIA



26/82
IPWEA MANHOLE
2100mm DIA





19/1
STORMWATER CHAMBER

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP

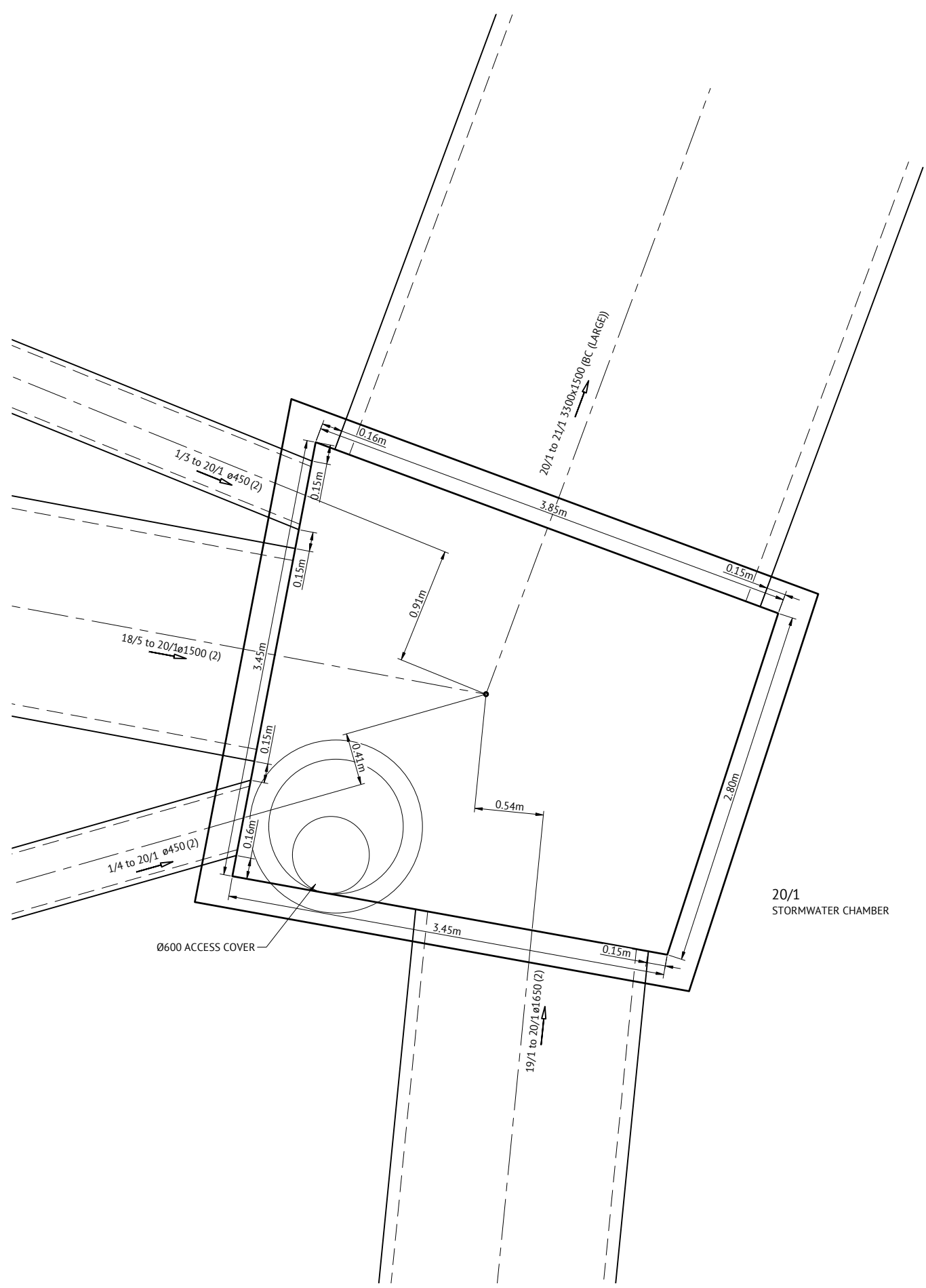
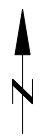
Premise
 BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
 PH: (07) 3253 2222
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DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112

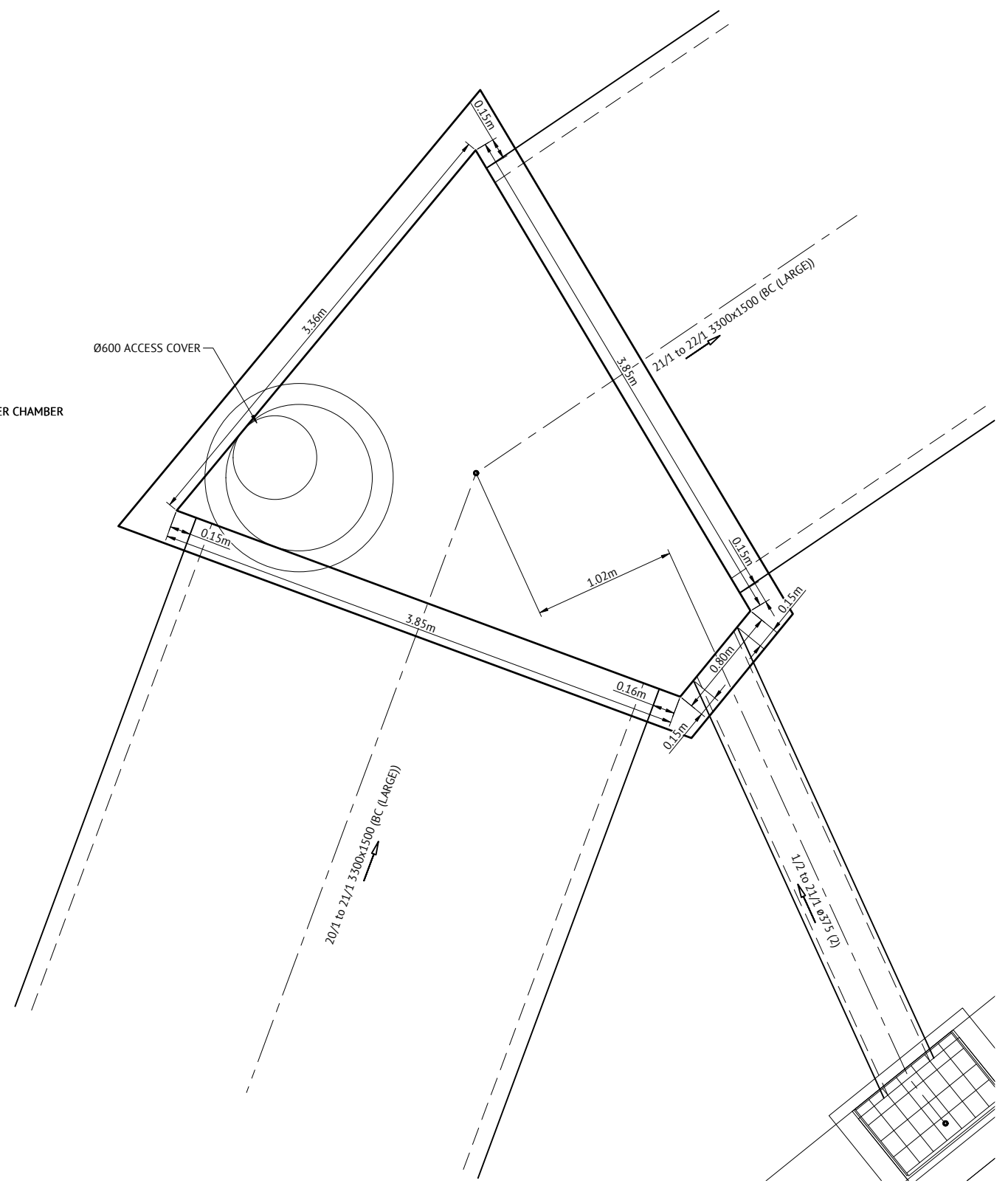
SCALE

 SCALE 1:20 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 3

JOB CODE
MIR-1004
 SHEET NUMBER
C432
 REV
B



20/1
STORMWATER CHAMBER



21/1
STORMWATER CHAMBER

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB



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KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE



SCALE 1:20 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS - SHEET 4

JOB CODE
MIR-1004

SHEET NUMBER C433	REV B
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STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	TIME			SUB-CATCHMENT RUNOFF			INLET DESIGN						DRAIN DESIGN								HEADLOSSES							PART FULL			DESIGN LEVELS										
			tc	I	C	A	CA	Q	tc	I	CA	Qp	L	S	Vf=Q/A	STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn	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	m	%	mm		m/s	min		Qg/Qo	Du/Do	S/Do	m		m		m	%	m	m	m	m	m	m	m	m	m	m	m	m
10/1	10B/1	1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						11.40	101	5.633	0	1570	38.931	1.586	1050	2	1.81	0.32	33 34	0.00	1.00	1.03	0.168	0.22	0.036		0.036	1.49	0.614	0.498	3.88	3.59	53.561	52.944	53.225	52.645	53.262	54.655	10/1				
10B/1	11/1	1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						11.73	99	5.864	0	1627	22.221	1.949	1050	2	1.88	0.19	33 34	0.00	1.00	1.04	0.180	0.24	0.044		0.044	2.73	0.308	0.479	4.23	3.89	52.924	52.491	52.601	51.995	52.645	53.915	10B/1				
11/1	11A/1	1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						11.91	99	5.992	0	1651	17.152	1.735	1200	2	1.46	0.14	33 34	0.00	0.93	1.00	0.109	0.00	0.000		0.000	1.69	0.298	0.468	4.04	3.72	52.491	52.193	51.995	51.705	51.995	53.495	11/1				
11A/1	11B/1	1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						12.06	98	6.095	0	1671	23.226	2.868	1200	2	1.48	0.19	33 34	0.00	1.00	1.02	0.111	0.21	0.023		0.023	2.84	0.666	0.412	4.87	4.46	52.173	51.507	51.682	51.022	51.705	53.169	11A/1				
11B/1	11C/1	1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						12.25	98	6.191	0	1686	37.668	1.812	1200	2	1.49	0.31	33 34	0.00	1.00	1.02	0.113	0.20	0.023		0.023	1.78	0.682	0.468	4.13	3.8	51.487	50.804	50.999	50.327	51.022	52.728	11B/1				
11C/1	12/1	1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						12.56	97	6.364	0	1716	21.973	1.680	1200	2	1.52	0.18	33 34	0.00	1.00	1.02	0.117	0.20	0.024		0.024	1.62	0.369	0.482	4.04	3.71	50.784	50.415	50.303	49.946	50.327	52.014	11C/1				
12/1	13/1	1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						12.75	96	6.525	0	1748	45.109	1.000	1200	2	1.55	0.38	33 34	0.00	1.00	1.02	0.122	0.21	0.025		0.025	1.29	0.391	0.563	3.35	3.09	50.395	49.944	49.921	49.341	49.946	51.647	12/1				

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

REVISIONS



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LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
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KLYNT KIWANG

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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 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 39% AEP STORM - SHEET 1

JOB CODE
MIR-1004

SHEET NUMBER
C440

REV
B

LOCATION			TIME			SUB-CATCHMENT RUNOFF			INLET DESIGN					DRAIN DESIGN					HEADLOSSES										PART FULL			DESIGN LEVELS							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	tc	I	CA	Qp	L	S	VF=Q/A	STRUCTURE RATIOS	V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn	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								m	m	m	m	m	m	m	m	m	m	m	m					
13/1	14/1	1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						13.05	95	7.143	0	1894	29.257	1.000	1350	2	1.32	0.24	33 34	0.00	0.99	1.01	0.089	0.19	0.017		0.017	0.99	0.293	0.555	3.41	3.14	49.944	49.651	49.324	49.034	49.341	51.079	13/1
14/1	14A/1	1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						13.30	94	7.286	0	1917	32.198	1.000	1350	2	1.34	0.27	33 34	0.00	1.00	1.01	0.091	0.20	0.019		0.019	0.97	0.322	0.559	3.42	3.15	49.631	49.309	49.016	48.703	49.034	50.717	14/1
14A/1	15/1	1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						13.56	94	7.528	0	1962	17.436	1.214	1350	2	1.37	0.15	33 34	0.00	1.00	1.01	0.096	0.21	0.020		0.020	1.77	0.181	0.537	3.70	3.4	49.289	49.078	48.683	48.374	48.703	50.316	14A/1
15/1	16/1	1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						13.45	94	8.657	0	2265	47.476	1.263	1500	2	1.28	0.40	33 34	0.00	1.00	1.01	0.084	0.24	0.020		0.020	1.25	0.600	0.548	3.88	3.56	49.078	48.478	48.353	47.760	48.374	50.093	15/1
16/1	16A/1	2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D						13.85	93	8.869	0	2291	34.017	1.204	1500	2	1.30	0.28	33 34	0.00	1.00	1.01	0.086	0.25	0.021		0.021	1.18	0.409	0.559	3.82	3.51	48.458	48.048	47.738	47.336	47.760	49.480	16/1

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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
(Signature)
PATRICK BRADY
 RPEQ 7112

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 39% AEP STORM - SHEET 2

JOB CODE
MIR-1004

SHEET NUMBER
C441

REV
B

STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN						HEADLOSSES									PART FULL			DESIGN LEVELS											
			tf	I	C	A	CA	Q	Qc	Qb	tc	I	CA	Qp	L	S	VF=Q/A	CHARTS USED	Qg/Qt	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)	dn	Vn	Vn	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	m	%	mm	m/s	min				m		m		m	%	m	m	m/s	m/s	m	m	m	m	m	m	m	m						
17/1	18/1	1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	0.00	0		0.000	0.000	0	0	0	0	1/6	14.42	91	9.337	0	2369	11.230	1.150	1500	2	1.34	0.09	34 37	0.00	1.00	1.04	0.092	0.65	0.060	0.060	1.74	0.117	0.576	3.79	3.48	47.472	47.343	46.767	46.571	46.826	48.816	17/1	
18/1	19/1	1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										1/2	14.07	92	10.268	0	2632	48.488	1.142	1650	2	1.23	0.40	37 42 43	0.00	0.96	1.04	0.077	0.81	0.063	0.85	0.065	1.10	0.553	0.586	3.87	3.55	47.343	46.789	46.508	45.977	46.574	48.625	18/1
19/1	20/1	1/6 1/7 3/7 1/7A 4/7 1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	0.00	0		0.000	0.000	0	0	0	0	1/2	14.47	91	10.886	0	2756	37.817	1.271	1650	2	1.29	0.32	33 34	0.00	1.00	1.01	0.085	0.27	0.023	0.023	1.93	0.215	0.584	4.07	3.73	46.769	46.289	45.954	45.223	45.977	48.063	19/1	
20/1	21/1	1/3 1/4 1/56A 1/56B 1/57 1/58 1/59 1/60 1/61 1/62 2/62 1/64 2/64 3/64 1/65 1/67 1/68 1/66 2/66 3/66 1/69 1/69A 1/70 1/71 1/72 1/73 2/73 1/74 1/75 1/76 2/76 3/76 4/76 1/77 2/77 3/77 4/77 1/78 1/79 1/80 1/81 1/5 2/5 3/5 4/5 1/55 1/56 1/6 1/7 3/7 1/7A 4/7 1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										1/2	13.94	92	17.467	0	4493	27.787	1.103	3300x1500	BC (LARGE)	0.91	0.23	34 37	0.00	0.92	1.01	0.042	0.48	0.020	0.020	1.09	0.306	0.373	3.65	3.27	46.119	45.812	45.193	44.890	45.213	47.610	20/1	

FOR CONSTRUCTION			
01/05/2024	B	ISSUED FOR CONSTRUCTION	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
DATE	REV	DESCRIPTION	REC APP
REVISIONS			

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
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 39% AEP STORM - SHEET 3

JOB CODE
MIR-1004

SHEET NUMBER
C442

REV
B

STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN						DRAIN DESIGN						HEADLOSSES										PART FULL			DESIGN LEVELS										
			tc	I	C	A	CA	Q	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	STRUCTURE RATIOS		V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	Vn	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																		%
1/22A	11C/1	1/22A	8.00	113	0.75	0.114	0.086	27	27	1.826	0.055	1.90	179	27	0	1/21	8.00	113	0.086	0	27	7.924	1.002	375	2	0.24	0.07	32	1.00	1.08	0.003	9.70	0.029		0.029	1.23	0.072	0.099	1.15	1.06	51.005	50.925	50.747	50.650	50.776	51.943	1/22A	
1/22B	11C/1	1/22B	8.00	113	0.75	0.117	0.088	28	28	1.846	0.056	1.90	163	28	0	1/22	8.00	113	0.088	0	28	10.576	1.448	375	2	0.25	0.09	32	1.00	1.08	0.003	9.70	0.031		0.031	1.65	0.136	0.092	1.31	1.2	51.124	50.970	50.867	50.688	50.898	52.088	1/22B	
1/22C	11B/1	1/22C	8.00	113	0.75	0.129	0.096	30	30	1.914	0.057	1.90	167	30	0	1/22B	8.00	113	0.096	0	30	5.047	1.017	375	2	0.27	0.04	32	1.00	1.10	0.004	9.70	0.037		0.037	1.37	0.044	0.105	1.19	1.09	51.715	51.664	51.464	51.394	51.501	52.657	1/22C	
1/23	11A/1	1/23	8.00	113	0.75	0.137	0.102	32	32	2.045	0.068	1.01	160	32	0	2/64	8.00	113	0.102	0	32	6.954	1.004	375	2	0.29	0.06	32	1.00	1.11	0.004	9.70	0.042		0.042	1.28	0.062	0.109	1.21	1.11	52.146	52.076	51.899	51.809	51.941	53.087	1/23	
1/24	2/24	1/24	8.00	113	0.75	0.141	0.105	33	33		0.000	1.09	375	33	0	2/24	8.00	113	0.105	0	33	9.893	1.003	375	2	0.30	0.08	32	1.00	1.12	0.005	9.70	0.044		0.044	-0.09	0.010	0.110	1.22	1.12	52.212	52.113	51.998	52.007	52.043	53.323	1/24	
2/24	11/1	1/24 2/24	6.00	122	0.76	0.030	0.023	8	8		0.000	0.22	375	8	0	1/22C	8.08	113	0.128	0	40	8.458	1.000	375	2	0.36	0.07	37 42 43	0.19	1.00	1.04	0.007	1.75	0.012	1.97	0.013	0.01	0.004	0.122	1.29	1.19	52.093	52.008	51.996	51.995	52.009	53.319	2/24
1/24A	10B/1	1/24A	8.00	113	0.75	0.134	0.101	32	39	2.119	0.062	1.97	179	39	0	1/23	8.00	113	0.101	0	39	7.881	1.001	375	2	0.36	0.07	32	1.00	1.17	0.007	9.70	0.063		0.063	0.37	0.058	0.121	1.28	1.11	52.906	52.827	52.674	52.645	52.737	53.842	1/24A	
1/24B	10B/1	1/24B	8.00	113	0.75	0.174	0.130	41	44	2.233	0.065	1.83	170	44	0	1/24	8.00	113	0.130	0	44	15.008	1.636	375	2	0.40	0.13	32	1.00	1.21	0.008	9.70	0.078		0.078	1.59	0.245	0.113	1.57	1.41	53.111	52.866	52.888	52.645	52.966	54.074	1/24B	
1/24C	10/1	1/24C	8.00	113	0.75	0.279	0.209	66	66	2.604	0.073	1.90	174	58	8	1/24A	8.00	113	0.209	0	58	3.297	1.025	375	2	0.52	0.03	32	1.00	1.36	0.014	9.70	0.135		0.135	1.78	0.024	0.148	1.42	1.36	53.664	53.630	53.463	53.403	53.598	54.602	1/24C	
1/24D	10/1	1/24D	8.00	113	0.75	0.237	0.177	56	56	2.428	0.069	1.90	159	52	3	1/24B	8.00	113	0.177	0	52	13.852	1.087	375	2	0.47	0.12	32	1.00	1.30	0.012	9.70	0.112		0.112	1.26	0.139	0.138	1.42	1.33	53.801	53.650	53.592	53.414	53.703	54.767	1/24D	
25/82	26/82	1/86 1/87 1/88 1/89 1/90 1/91 1/92 2/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100 1/101 1/102 1/103 1/104 1/105 1/108 1/109 1/110 1/111 1/128 1/129 1/130 1/132 2/112 3/112 1/113 1/114 1/115 2/115 3/115 1/131A 1/131B 2/131B 1/132 1/133 1/134 2/134 1/135 1/136 1/137 1/82 2/82 3/82 4/82 8/82 1/85															16.60	85	7.694	0	1799	16.164	0.200	1500	2	1.02	0.13	37	0.00	0.93	1.02	0.053	0.59	0.031		0.031	0.08	0.019	0.811	1.85	1.72	45.609	45.577	45.067	45.053	45.098	47.051	25/82
26/82	27/82	1/83 1/84 1/86 1/87 1/88 1/89 1/90 2/90 1/91 1/92 2/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100 1/101 1/102 1/103 1/104 1/105 1/108 1/109 1/110 1/111 1/128 1/129 1/130 1/112 2/112 3/112 1/113 1/114 1/115 2/115 3/115 1/131A 1/131B 2/131B 1/132 1/133 1/134 2/134 1/135 1/136 1/137 1/82 2/82 3/82 4/82 8/82 1/85															16.39	86	7.791	0	1849	10.655	0.200	1500	2	1.05	0.09	33 34	0.00	1.00	1.01	0.056	0.22	0.012		0.012	0.08	0.012	0.824	1.86	1.73	45.557	45.536	45.041	45.032	45.053	46.952	26/82
27/82	28/82	1/83 1/84 1/86 1/87 1/88 1/89 1/90 2/90 1/91 1/92 2/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100 1/101 1/102 1/103 1/104 1/105 1/108 1/109 1/110 1/111 1/128 1/129 1/130 1/112 2/112 3/112 1/113 1/114 1/115 2/115 3/115 1/131A 1/131B 2/131B 1/132 1/133 1/134 2/134 1/135 1/136 1/137 1/82 2/82 3/82 4/82 8/82 1/85															16.48	86	7.791	0	1844	7.920	0.200	1500	2	1.04	0.07	37 42 43	0.00	1.00	1.03	0.056	0.81	0.045	0.82	0.045	0.09	0.009	0.823	1.86	1.73	45.516	45.500	44.987	44.980	45.032	47.176	27/82
28/82																																													44.980	45.700	28/82	
1/83	26/82	1/83	8.00	113	0.69	0.192	0.132	41	56		0.007	0.17	360	56	0	LOST	8.00	113	0.132	0	56	2.716	8.660	375	2	0.51	0.02	32	1.00	1.34	0.013	9.70	0.129		0.129	11.34	0.000	0.085	3.01	2.63	45.967	45.732	45.764	45.442	45.893	46.908	1/83	
1/84	26/82	1/84	6.00	122	0.76	0.060	0.045	15	15		0.000	0.53	375	15	0	1/83	6.00	122	0.045	0	15	5.448	1.025	375	2	0.14	0.05	32	1.00	1.03	0.001	9.70	0.010		0.010	1.23	0.051	0.075	0.98	0.9	45.969	45.913	45.682	45.613	45.691	46.910	1/84	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

BRISBANE OFFICE
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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 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 39% AEP STORM - SHEET 5

JOB CODE
MIR-1004

SHEET NUMBER	REV
C444	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF			
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Q	Qg	Qb	tc	I	CA	Qp	L	S	VF=Q/A	CHARTS USED	STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn	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	Qg/Qo	Du/Do	S/Do	m		m	m	m	%											m	m	m/s	m
10/1	10B/1	1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										11.40	222	7.544	0	2417	38.931	1.586	1050	2	2.79	0.32	33 34	0.00	1.00	1.09	0.398	0.23	0.092	0.092	1.30	0.587	0.649	4.30	53.561	52.944	53.390	52.885	53.482	54.655					10/1
10B/1	11/1	1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										11.73	219	7.852	0	2552	22.221	1.949	1050	2	2.95	0.19	33 34	0.00	1.00	1.11	0.443	0.25	0.113	0.113	2.51	0.381	0.628	4.72	52.924	52.491	52.772	52.214	52.885	53.915					10B/1
11/1	11A/1	1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										11.91	218	8.023	0	2792	17.152	1.735	1200	2	2.47	0.14	33 34	0.00	0.93	1.00	0.311	0.01	0.002	0.002	1.20	0.281	0.631	4.64	52.491	52.193	52.211	52.006	52.214	53.495					11/1
11A/1	11B/1	1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										12.06	217	8.160	0	3002	23.226	2.868	1200	2	2.65	0.19	33 34	0.00	1.00	1.07	0.360	0.22	0.080	0.080	2.44	0.646	0.568	5.70	52.173	51.507	51.926	51.359	52.006	53.169					11A/1
11B/1	11C/1	1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										12.25	215	8.289	0	3215	37.668	1.812	1200	2	2.84	0.31	33 34	0.00	1.00	1.07	0.412	0.22	0.089	0.089	1.56	0.664	0.679	4.87	51.487	50.804	51.270	50.682	51.359	52.728					11B/1
11C/1	12/1	1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										12.56	213	8.520	0	3349	21.973	1.680	1200	2	2.96	0.18	33 34	0.00	1.00	1.08	0.447	0.22	0.097	0.097	1.15	0.341	0.714	4.78	50.784	50.415	50.585	50.332	50.682	52.014					11C/1
12/1	13/1	1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										12.75	212	8.735	0	3541	45.109	1.000	1200	2	3.13	0.38	33 34	0.00	1.00	1.09	0.500	0.23	0.113	0.113	1.03	0.451	0.897	3.91	50.395	49.944	50.219	49.755	50.332	51.647					12/1

FOR CONSTRUCTION



BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
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DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
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 PATRICK BRADY
 RPEQ 7112

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 1

JOB CODE
MIR-1004
 SHEET NUMBER
C445
 REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF					
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	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														
			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		Qg/Qo	Du/Do	S/Do	m		m	m	m	%	m	m	m/s	m	m	m	m	m	m	L/s	L/s	m ² /s		
13/1	14/1	1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D											13.12	209	9.581	0	4079	29.257	1.000	1350	2	2.85	0.24	33 34	0.00	0.99	1.06	0.414	0.20	0.084	0.084	0.76	0.283	0.884	4.11	49.944	49.651	49.672	49.450	49.755	51.079						13/1
14/1	14A/1	1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										13.37	208	9.772	0	4121	32.198	1.000	1350	2	2.88	0.27	33 34	0.00	1.00	1.06	0.423	0.20	0.086	0.086	0.67	0.302	0.890	4.12	49.651	49.309	49.364	49.149	49.450	50.717						14/1	
14A/1	15/1	1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										13.63	206	10.096	0	4337	17.436	1.214	1350	2	3.03	0.15	33 34	0.00	1.00	1.07	0.468	0.22	0.101	0.101	1.29	0.211	0.862	4.49	49.289	49.078	49.047	48.823	49.149	50.316						14A/1	
15/1	16/1	1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D											13.45	207	11.584	0	4891	47.476	1.263	1500	2	2.77	0.40	33 34	0.00	1.00	1.06	0.391	0.24	0.093	0.093	1.03	0.581	0.851	4.73	49.078	48.478	48.730	48.239	48.823	50.093						15/1
16/1	16A/1	2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D											13.85	205	11.866	0	5088	34.017	1.204	1500	2	2.88	0.28	33 34	0.00	1.00	1.07	0.423	0.25	0.107	0.107	0.91	0.393	0.886	4.68	48.458	48.048	48.132	47.823	48.239	49.480						16/1

FOR CONSTRUCTION



BRISBANE OFFICE
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KLYNT KIWANG
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SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 2

JOB CODE
MIR-1004
SHEET NUMBER
C446
REV
B

DATE	REV	DESCRIPTION	KK	PB
01/05/2024	B	ISSUED FOR CONSTRUCTION		
20/10/2023	A	ISSUED FOR APPROVAL		

REVISIONS

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF					
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qb	Qc	tc	I	CA	Qp	L	S	VF=Q/A	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	%	m	m	m/s	m	m	m	m	m	L/s	L/s	m ² /s						
16A/1	17/1	1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D									14.13	203	12.167	0	5226	34.788	1.541	1500	2	2.96	0.29	33	34	0.00	1.00	1.07	0.446	0.24	0.105	0.105	0.46	0.333	0.834	5.18	48.028	47.492	47.717	47.556	47.823	49.043				16A/1			
17/1	18/1	1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	0.00	0		0.000	0.000	0	820	0	820	1/6	14.42	201	12.490	0	5502	11.230	1.150	1500	2	3.11	0.09	34	37	0.00	1.00	1.22	0.495	0.65	0.323	0.323	-0.39	0.060	0.948	4.68	47.472	47.343	47.233	47.277	47.556	48.816	2163	820			17/1
18/1	19/1	1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D										14.18	203	13.778	0	6048	48.488	1.142	1650	2	2.83	0.40	37	42	43	0.00	0.96	1.21	0.408	0.81	0.332	0.85	0.346	0.55	0.451	0.941	4.80	47.343	46.789	46.945	46.676	47.291	48.625				18/1
19/1	20/1	1/6 1/7 3/7 1/7A 4/7 1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	0.00	0		0.000	0.000	0	761	0	761	1/2	14.47	201	14.559	0	6256	37.817	1.271	1650	2	2.93	0.32	34	37	0.00	1.00	1.10	0.437	0.36	0.157	0.157	0.19	0.168	0.930	5.04	46.769	46.289	46.519	46.448	46.676	48.063	2163	761			19/1

FOR CONSTRUCTION			
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
DATE	REV	DESCRIPTION	REC APP



BRISBANE OFFICE
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PROJECT DIRECTOR
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RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 3

JOB CODE
MIR-1004

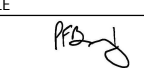
SHEET NUMBER
C447

REV
B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN								HEADLOSSES								PART FULL		DESIGN LEVELS						RUNOFF											
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qb	Qg	Qb	tc	I	CA	Qp	L	S	PIPE/BOX DIMENSIONS	CLASS	VF=Q/A	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 OVERT LEVEL	DOWNSTREAM OVERT 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		m	m	m	%	m	m	m/s	m	m	m	m	m	m	L/s	L/s	m ² /s							
20/1	21/1	1/3 1/4 1/56A 1/56B 1/57 1/58 1/59 1/60 1/61 1/62 2/62 1/64 2/64 3/64 1/65 1/67 1/68 1/66 2/66 3/66 1/69 1/69A 1/70 1/71 1/72 1/73 2/73 1/74 1/75 1/76 2/76 3/76 4/76 1/77 2/77 3/77 4/77 1/78 1/79 1/80 1/81 1/5 2/5 3/5 4/5 1/55 1/56 1/6 1/7 3/7 1/7A 4/7 1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	13.99	204	23.389	0	1052.6	27.787	1.103	3300x1500	BC (LARGE)	2.13	0.23	34	37	0.00	0.92	1.22	0.231	0.54	0.125	0.125	0.18	0.051	0.655	4.87	46.119	45.812	46.324	46.272	46.448	47.610										20/1							
21/1	23/1	1/2 1/3 1/4 1/56A 1/56B 1/57 1/58 1/59 1/60 1/61 1/62 2/62 1/64 2/64 3/64 1/65 1/67 1/68 1/66 2/66 3/66 1/69 1/69A 1/70 1/71 1/72 1/73 2/73 1/74 1/75 1/76 2/76 3/76 4/76 1/77 2/77 3/77 4/77 1/78 1/79 1/80 1/81 1/5 2/5 3/5 4/5 1/55 1/56 1/6 1/7 3/7 1/7A 4/7 1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E 1/9 1/11 1/9A 1/10 2/13 1/14 1/14B 1/14A 1/15 1/50 1/51 1/52 2/52 1/53 1/53A 1/16 2/16 1/16A 1/16B 1/17 1/18A 1/19 1/20 2/20 1/20B 1/21 1/22 1/22A 1/22B 1/22C 1/23 1/24 2/24 1/24A 1/24B 1/28 2/28 1/29 1/29A 1/31 1/32 1/32A 1/33 1/34 1/35 1/36 1/37 1/38 2/38 1/39 1/41 1/40 2/40 3/40 1/43 2/43 3/43 4/43 5/43 6/43 7/43 1/44 2/44 3/44 1/44A 2/44A 1/30 2/30 3A/30 4/30 1/44B 1/44C 1/49 2/49 1/1 2/1 3/1 4/1 1/46A 1/46B 1/24C 1/24D	14.22	203	23.535	0	1062.1	28.374	1.031	3300x1500	BC (LARGE)	2.15	0.24	34	37	0.00	1.00	1.32	0.235	0.59	0.139	0.139	0.19	0.053	0.674	4.78	45.792	45.500	46.133	46.080	46.272	47.277												21/1					
23/1																																													23/1				
1/2	21/1	1/2	8.00	252	1.00	0.146	0.146	103	1864	3.22	206	1658	1/118	8.00	252	0.146	0	206	5.750	1.009	375	2	1.87	0.05	32	1.00		3.04	0.177	3.76	0.667		0.667	1.38	0.080	0.375	1.87	46.254	46.196	46.352	46.272	47.019	47.195	1968	1864	0.38	1/2		
1/3	20/1	1/3	8.00	252	1.00	0.223	0.223	156	1794	0.30	86	1707	1/84	8.00	252	0.223	0	330	9.790	2.826	450	2	2.08	0.08	32	1.00		3.10	0.220	3.69	0.811		0.811	1.34	0.133	0.276	3.23	46.445	46.169	46.582	46.448	47.393	47.400	2528	1794	0.36	1/3		
1/4	20/1	1/4	8.00	252	1.00	0.271	0.271	190	1348	0.85	117	1231	1/3	8.00	252	0.271	0	327	11.994	2.738	450	2	2.06	0.10	32	1.00		3.12	0.216	3.67	0.792		0.792	1.32	0.160	0.277	3.19	46.447	46.119	46.608	46.448	47.401	47.402	1548	1348		1/4		
18/5	20/1	1/56A 1/56B 1/57 1/58 1/59 1/60 1/61 1/62 2/62 1/64 2/64 3/64 1/65 1/67 1/68 1/66 2/66 3/66 1/69 1/69A 1/70 1/71 1/72 1/73 2/73 1/74 1/75 1/76 2/76 3/76 4/76 1/77 2/77 3/77 4/77 1/78 1/79 1/80 1/81 1/5 2/5 3/5 4/5 1/55 1/56	12.39	214	8.591	0	4405	61.056	1.486	1500	2	2.49	0.51	33	34	0.00	1.00	1.05	0.317	0.22	0.069	0.069	0.32	0.394	0.760	4.90	47.046	46.139	46.641	46.448	46.709	48.198												18/5					
1/6	19/1	1/6	8.00	252	1.00	0.170	0.170	119	239	1.06	-45	284	1/4	8.00	252	0.170	0	536	5.194	1.000	450	2	3.37	0.04	32				0.580	0.00	0.000		0.000	3.67	0.184	0.450	3.37	47.060	47.008	47.189	46.998	47.189	48.008	2163	239	0.12	1/6		
4/7	19/1	1/7 3/7 1/7A 4/7	8.00	252	1.00	0.198	0.198	139	1017	0.37	255	761	19/1	8.30	249	0.649	0	453	13.030	0.500	450	2	2.85	0.11	32	33	34	0.56	1.00	3.04	0.414	1.60	0.662		0.662	2.62	0.329	0.450	2.85	46.852	46.786	47.108	46.767	47.770	47.836	1264	1017	0.20	4/7
1/9	17/1	1/9	6.00	275	1.00	0.091	0.091	69	104	0.36	75	30	17/1	6.00	275	0.091	0	75	10.062	2.556	375	2	0.68	0.09	32	1.00		1.43	0.023	7.00	0.163		0.163	0.05	0.018	0.133	2.13	47.656	47.399	47.561	47.556	47.724	48.740	1529	104		1/9		
1/9A	16A/1	1/9A	8.00	252	1.00	0.186	0.186	130	146	1.26	111	35	1/9	8.00	252	0.186	0	111	6.472	1.038	375	2	1.01	0.06	32	1.00		1.98	0.052	7.10	0.368		0.368	1.21	0.065	0.217	1.68	48.034	47.966	47.904	47.823	48.272	48.993	2418	146	0.09	1/9A		
1/10	16A/1	1/10	8.00	252	1.00	0.115	0.115	81	856	1.33	124	732	1/11	8.00	252	0.115	0	124	7.930	1.002	375	2	1.12	0.07	32	1.00		2.12	0.064	6.51	0.419		0.419	1.02	0.079	0.233	1.72	48.019	47.940	47.904	47.823	48.323	48.961	2418	856	0.25	1/10		
1/11	17/1	1/11	8.00	252	1.00	0.233	0.233	163	1101	0.18	311	790	17/1	8.00	252	0.233	0	311	7.755	1.018	450	2	1.96	0.07	32	1.00		2.82	0.195	4.20	0.819		0.819	1.32	0.083	0.450	1.96	47.761	47.683	47.724	47.620	48.543	48.710	1529	1101		1/11		

FOR CONSTRUCTION

**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 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 4

JOB CODE
MIR-1004
 SHEET NUMBER
C448
 REV
B

DATE	REV	DESCRIPTION	KK	PB	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION				
20/10/2023	A	ISSUED FOR APPROVAL				

REVISIONS

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES									PART FULL		DESIGN LEVELS						RUNOFF			
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qb	Qc	tc	I	CA	Qp	L	S	PIPE/BOX DIMENSIONS	CLASS	Vf=Q/A	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		m	m	%	m	m	m/s	m	m	m	m	m	m	L/s	L/s	m²/s		
5/12	18/1	1/54B 1/54C 1/54 1/54A 1/12 2/12 1/54D 1/54E 2/54E									8.72	245	1.412	0	729	11.776	1.002	525	2	3.37	0.10	37							0.433	2.96	0.338	0.525	3.37	47.742	47.624	47.957	47.608	48.390	48.897					5/12

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		
20/10/2023	A	ISSUED FOR APPROVAL		

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PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 5

JOB CODE
MIR-1004

SHEET NUMBER
C449

REV
B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN				DRAIN DESIGN										HEADLOSSES										PART FULL		DESIGN LEVELS						RUNOFF						
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	tc	I	C	A	CA	Q	Qc	ROAD GRADE AT INLET	Qg	Qb	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	I	CA	Qp	L	S	PIPE/BOX DIMENSIONS	CLASS	VF=Q/A	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)	dn	Vn	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	m	%	m											m	m	m
27/82	28/82	1/83 1/84 1/86 1/87 1/88 1/89 1/90 2/90 1/91 1/92 2/92 1/93 1/94 1/95 1/96 1/97 1/98 1/99 1/100 1/101 1/102 1/103 1/104 1/105 1/138 1/139 1/106 1/107 1/108 1/109 1/110 1/111 1/128 1/129 1/130 1/112 2/112 3/112 1/113 1/114 1/115 2/115 3/115 1/131A 1/131B 2/131B 1/132 1/133 1/134 2/134 1/135 1/136 1/137 1/82 2/82 3/82 4/82 8/82 1/85													16.85	188	10.657	0	4548	7.920	0.200	1500	2	2.57	0.07	37 42 43	0.00	1.00	1.58	0.338	0.81	0.273	0.82	0.276	0.41	0.033	1.500	2.57	45.516	45.500	46.113	46.080	46.388	47.176				27/82
28/82																																																28/82
1/83	26/82	1/83	8.00	252	0.96	0.192	0.184	129	2007	0.17	154	1853	LOST	8.00	252	0.184	0	154	2.716	8.660	375	2	1.39	0.02	32	1.00		3.39	0.099	3.38	0.334		0.334	0.77	0.022	0.142	4.01	45.967	45.732	46.530	46.508	46.863	46.908	2800	2007			1/83
1/84	26/82	1/84	6.00	275	1.00	0.060	0.060	46	1545	0.53	0	1545	1/83	6.00	275	0.060	0	354	5.448	1.025	375	2	3.21	0.05	32				0.525	0.00	0.000		0.000	4.08	0.228	0.375	3.21	45.969	45.913	46.736	46.508	46.736	46.910	1855	1545			1/84

FOR CONSTRUCTION



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DESIGNED
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ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
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 PATRICK BRADY
 RPEQ 7112

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM - SHEET 6

JOB CODE
MIR-1004
 SHEET NUMBER
C450
 REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

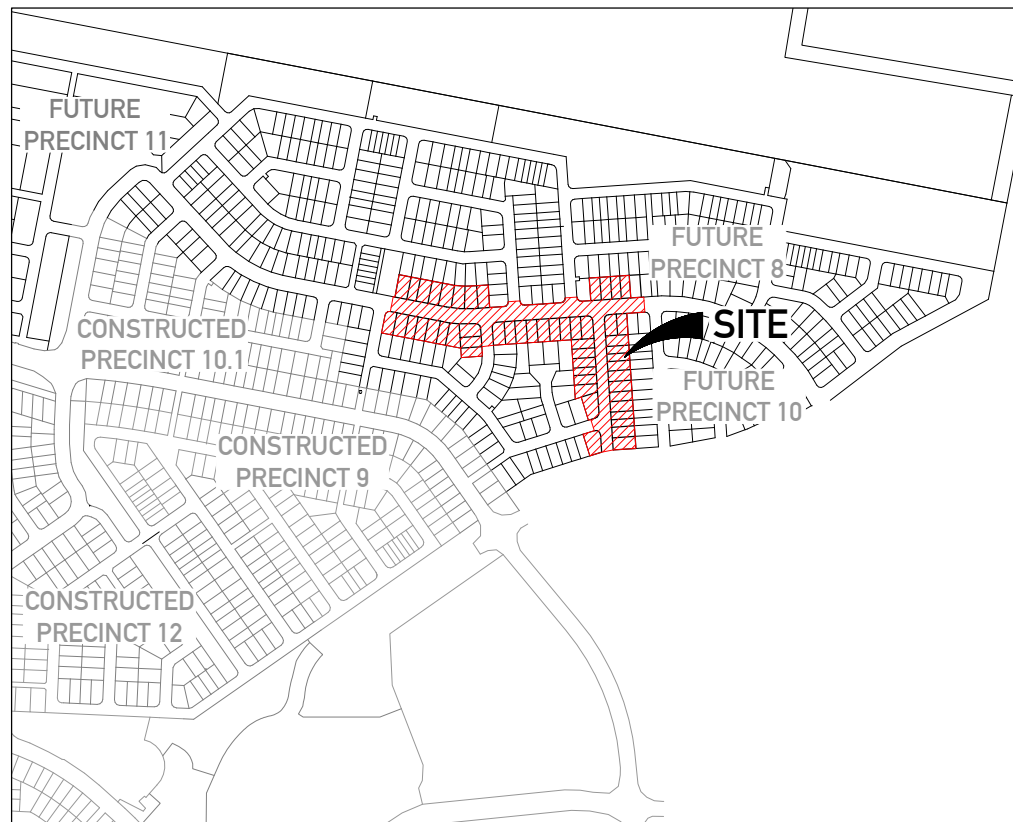
REVISIONS

EVERLEIGH PRECINCT 10.4 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 10.4 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		52
AREA ha		3.27ha
LENGTH OF SEWERS	DN150 uPVC SN8	1645m
	DN225 uPVC	17.5m

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 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.
- 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 BE 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 IN FUTURE FILL AREA AS NOMINATED BY THE SUPERINTENDENT INCLUDING ALL LEVEL ONE COMPACTION REQUIREMENTS AND TESTING IN ACCORDANCE WITH MORRISON GEOTECHNICAL SPECIFICATION AND ALL LOCAL AUTHORITY STANDARDS, AND SHALL BE FREE DRAINING.

EXCAVATION IN ROCK NOTE:

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

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C512	SEWERAGE LAYOUT PLAN - SHEET 3
C513	SEWERAGE LAYOUT PLAN - SHEET 4
C520	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 1
C521	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 2
C522	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 3
C523	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 4
C524	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 5
C525	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 6
C526	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 7
C527	SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 8
C528	SEWERAGE RISING MAIN LONG SECTIONS - SHEET 1
C529	SEWERAGE RISING MAIN LONG SECTIONS - SHEET 2
C530	SEWERAGE NOTES AND DETAILS
C540	TEMPORARY ACCESS TRACK TO SEWER PUMP STATION

FOR CONSTRUCTION



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 KLYNT KIWANG

CHECKED
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 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 10.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

SEWERAGE LOCALITY PLAN & NOTES

JOB CODE

MIR-1004

SHEET NUMBER

C500

REV

B

DATE	REV	DESCRIPTION	KK	PB	REC	APP
01/05/2024	B	ISSUED FOR CONSTRUCTION				
20/10/2023	A	ISSUED FOR APPROVAL				

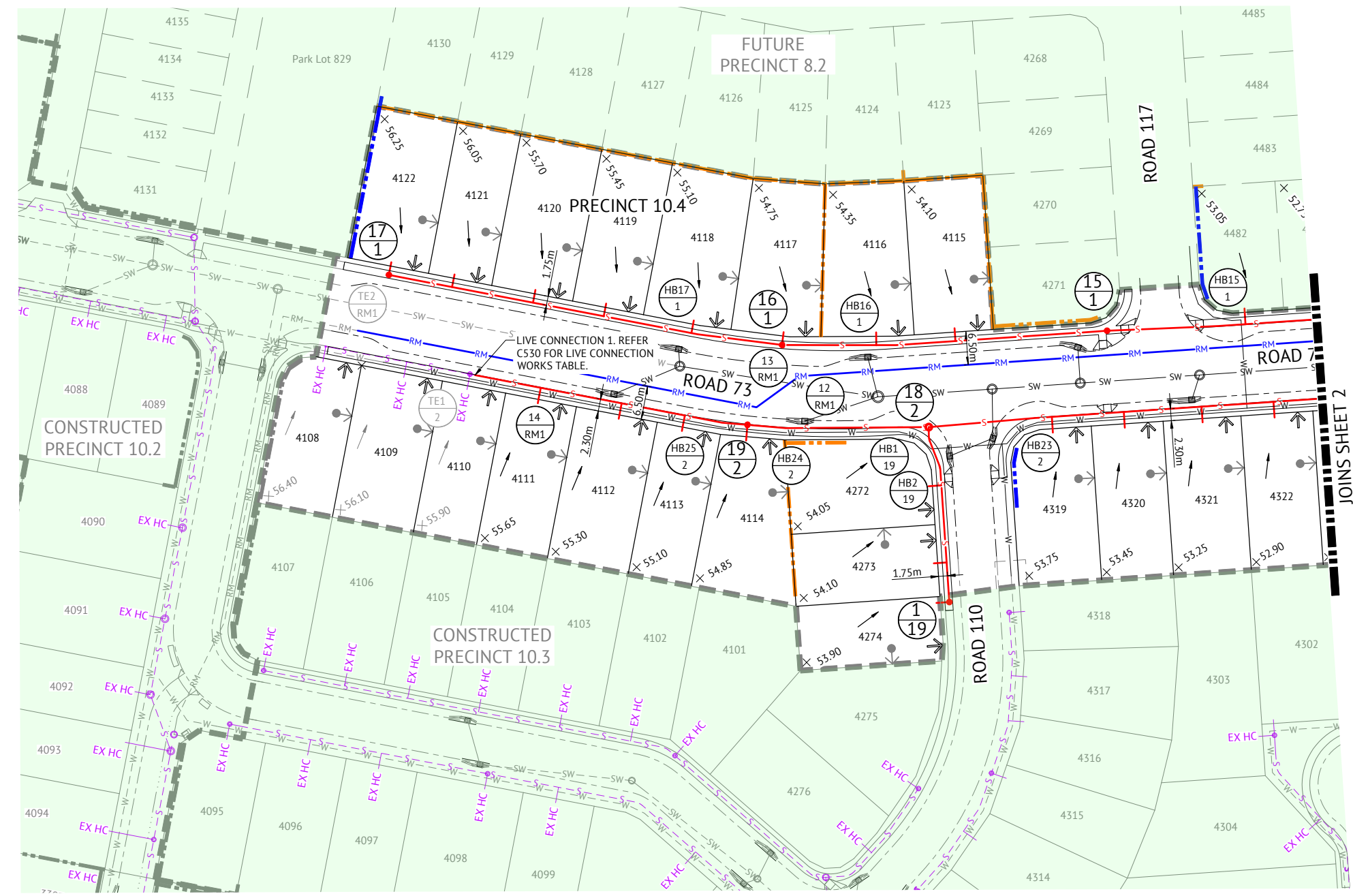


LEGEND - PROPOSED

- 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

CONSTRUCTED HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
4108	54.729	1.250
4109	54.394	1.250
4110	54.201	1.250

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

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

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

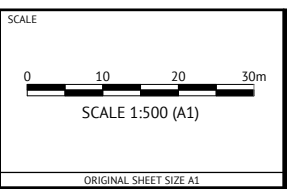
FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

BRISBANE OFFICE
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BRISBANE, QLD 4000
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DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
SEWERAGE LAYOUT PLAN - SHEET 1

JOB CODE	
MIR-1004	
SHEET NUMBER	REV
C510	B



LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BDY WITH DWAY. 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY. TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- 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
4294	50.771	1.450
4295	51.519	1.350

LAYOUT PLAN
SCALE 1:500

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

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

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

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

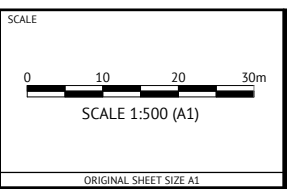
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP



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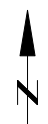
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE LAYOUT PLAN - SHEET 2

JOB CODE
MIR-1004

SHEET NUMBER	REV
C511	B

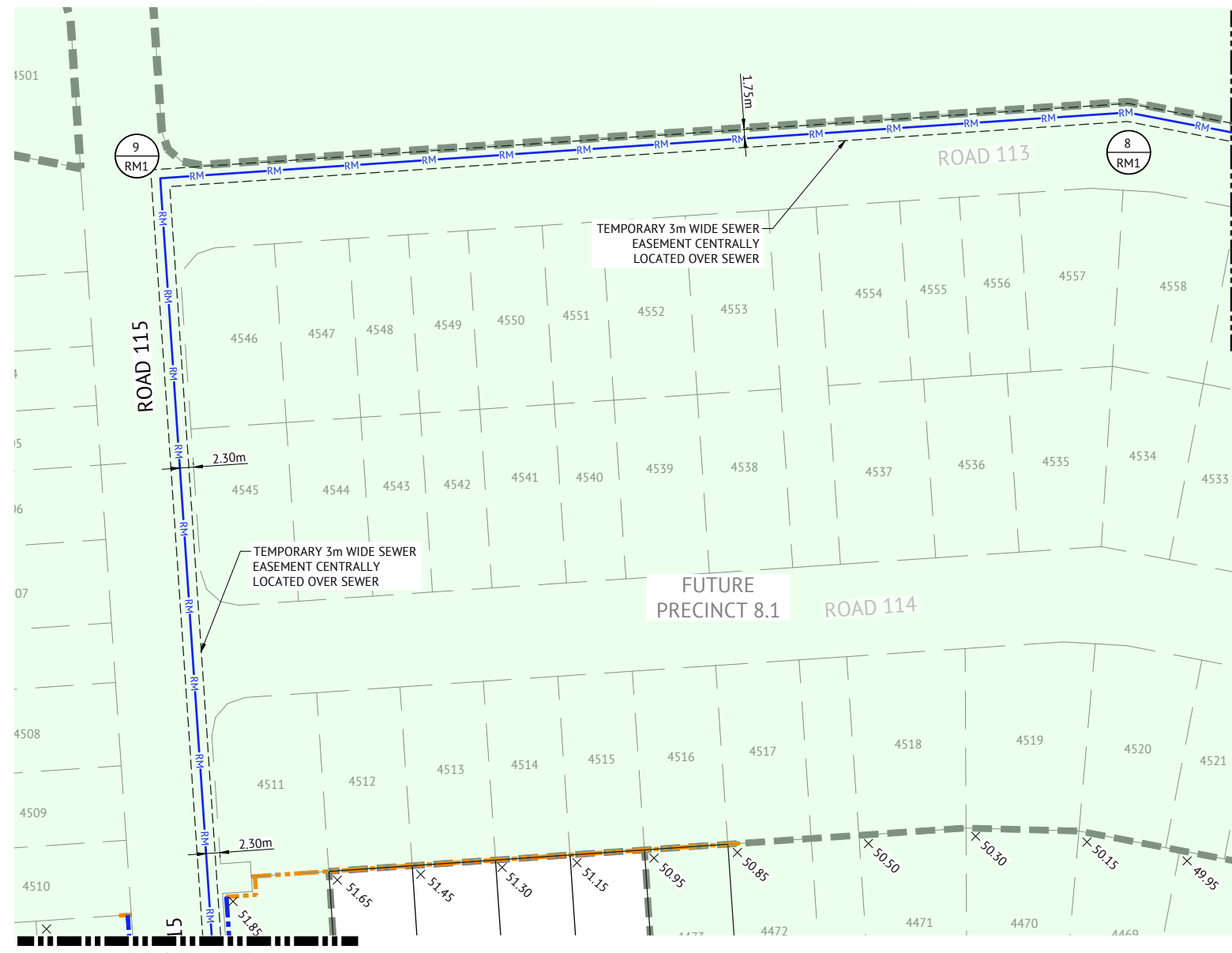


LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BDY WITH DWAY. 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY. TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- 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



JOINS SHEET 2

LAYOUT PLAN

SCALE 1:500

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

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

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

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

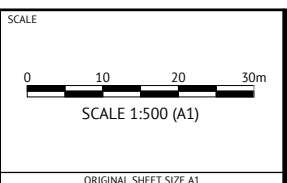
ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR CONSTRUCTION					
DATE	REV	DESCRIPTION	REC	APP	REVISIONS
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB	
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB	

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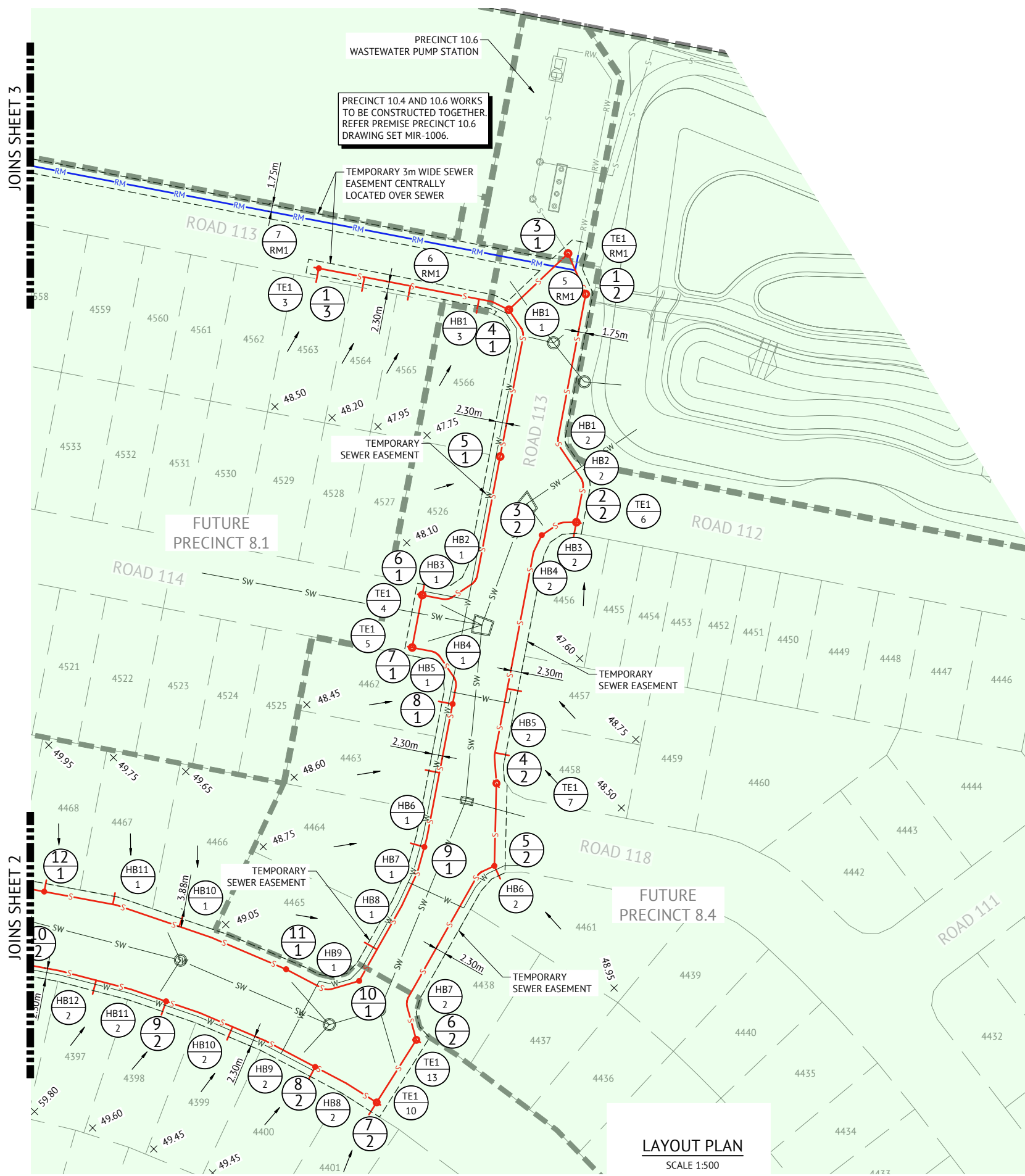
DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112



MIRVAC QLD PTY LTD
 PROJECT **EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT**
 LOCATION **TEVIOT ROAD, GREENBANK**
 SHEET TITLE **SEWERAGE LAYOUT PLAN - SHEET 3**

JOB CODE		MIR-1004
SHEET NUMBER	REV	
C512	B	



LEGEND - PROPOSED

- S— GRAVITY SEWER
- S—T Ø100mm PROPERTY CONNECTION, 7.5m OFFSET FROM SIDE BDY WITH DWAY, 1.2m OFFSET FROM SIDE BDY WITHOUT DWAY, TYPICAL U.N.O.
- S—●— MAINTENANCE STRUCTURE
- RM— SEWER RISING MAIN
- 1
1 PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HB1
1 HORIZONTAL BEND (3m RADIUS).
- 38 LOT NUMBER
- SW— STORMWATER DRAINAGE
- W— DRINKING WATER MAIN
- E— 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

- S--- EX HC Ø100mm CONSTRUCTED PROPERTY CONNECTION
- S--- GRAVITY SEWER
- S---●--- MAINTENANCE STRUCTURE
- SW--- STORMWATER DRAINAGE
- W--- DRINKING WATER MAIN
- 4
3 MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HB1
3 HORIZONTAL BEND (3m RADIUS).
- PMT PAD EXCLUSION ZONE

LEGEND - FUTURE

- S— GRAVITY SEWER
- RM— SEWER RISING MAIN

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

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

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

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

LAYOUT PLAN
SCALE 1:500

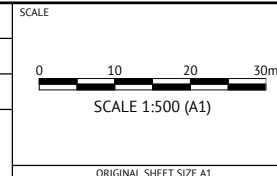
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
			REC APP



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NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

SEWERAGE LAYOUT PLAN - SHEET 4

JOB CODE

MIR-1004

SHEET NUMBER

C513

REV

B

MAINTENANCE HOLE / SHAFT NO.	11/1	HB10/1	HB11/1	12/1	HB12/1	HB13/1	13/1	14/1	HB14/1	HB15/1								
MH / MS COVER TYPE	B			B			B	B										
MH / MS TYPE	J	LRB	LRB	J	LRB	LRB	J	J	LRB	LRB								
MH DROP TYPE	V			V			V	V										
LINE NO.	1			1			1	1										
PROPERTY CONNECTION DEPTH		1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250								
PROPERTY CONNECTION INVERT LEVEL		47.896	48.096	48.269	48.453	48.616	48.820	49.113	49.289	49.463	49.618	49.772	49.946	50.137	50.638	50.824	51.089	51.436
PROPERTY CONNECTION TYPE		B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
LOT NO.		4466	4467	4468	4469	4470	4471	4472	4473	4474	4475	4476	4477	4478	4479	4480	4481	4482

LEGEND
RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.050
B	CONCRETE MANHOLE 1.200
C	CONCRETE MANHOLE 1.500
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
LRB	HORIZONTAL BEND (3m HORIZ. RADIUS)

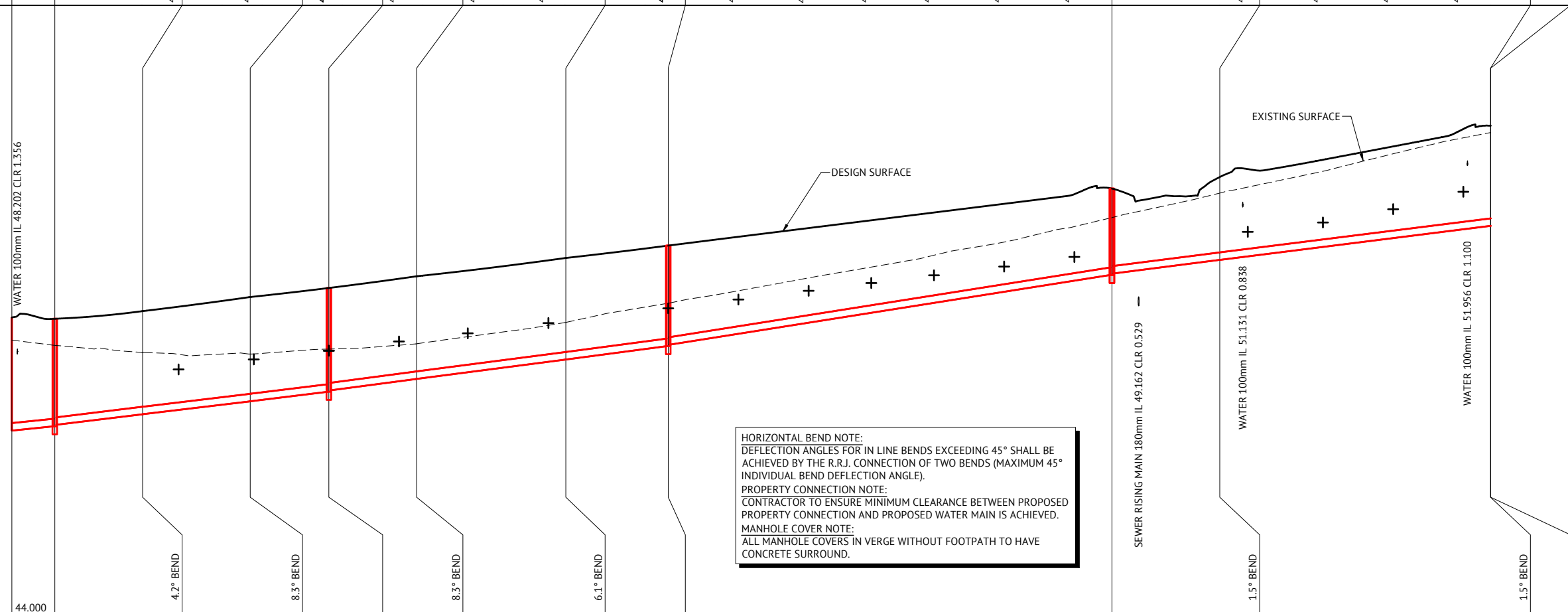
LID TYPES	
B	CLASS B NON TRAFFICABLE CAST IRON
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CAST IRON

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.

DATUM RL	44.000																														
PROPERTY DESCRIPTION																			RR												
PIPE SIZE (mm), CLASS																			DN150 uPVC SN8												
GRADE (1 IN X)	100	83	83	83	83	83	83	83	77	77	77	77	77	77	77	64			79												
LENGTH	8.574	17.397	0.109	0.109	21.140	0.218	0.217	15.474	17.289	0.217	0.218	29.378	0.160	0.159	20.273	88.500			21.461												
EMBEDMENT TYPE																			TYPE 3												
DEPTH OF INVERT BELOW FSL	2.221																														
INVERT LEVEL (IL)	46.677	46.762	46.792	46.805	47.001	47.005	47.005	47.004	47.258	47.261	47.263	47.263	47.449	47.479	47.704	47.707	47.710	48.092	48.094	48.096	48.359	48.389	49.778	49.808	50.078	50.078	50.079	50.079	50.755	50.755	50.756
FINISHED SURFACE LEVEL (FSL)	48.897	48.844	48.875	48.897	49.056	49.058	49.059	49.335	49.358	49.341	49.341	49.519	49.519	49.749	49.749	49.752	49.754	50.115	50.117	50.119	50.363	50.363	51.499	51.499	51.729	51.729	51.731	51.731	52.753	52.753	52.752
EXISTING SURFACE LEVEL (ESL)	48.481	48.375	48.235	48.234	48.234	48.234	48.203	48.203	48.203	48.203	48.203	48.203	48.203	48.203	48.203	48.407	48.410	48.829	48.832	48.835	49.716	49.716	50.922	50.922	51.409	51.410	51.411	51.614	52.615	52.616	52.616
CHAINAGE (CH)	230.590	239.164	256.561	256.670	256.779	277.919	278.137	278.354	293.828	311.117	311.334	311.552	340.930	341.090	341.249	361.522	450.022	450.022	471.483	471.521	471.560	525.489	525.527	525.566	525.566	525.566	525.566	525.566	525.566	525.566	525.566

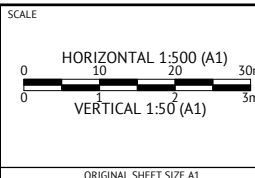
LINE 1

FOR CONSTRUCTION



BRISBANE OFFICE
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RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 2

JOB CODE
MIR-1004
SHEET NUMBER
C521
REV
B

DATE	REV	DESCRIPTION	KK	PB
01/05/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

MAINTENANCE HOLE / SHAFT NO.

MH / MS COVER TYPE	B	B	B	B	B	B	B	B	B	B
MH / MS TYPE	J	LRB	J	LRB	J	LRB	J	LRB	J	LRB
MH DROP TYPE	V		V		V		V		V	
LINE NO.	1		1		1		1		1	
PROPERTY CONNECTION DEPTH		1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL		52.439	52.740	53.231	53.584	53.785	54.050	54.320	54.499	54.749
PROPERTY CONNECTION TYPE		B	B	B	B	B	B	B	B	B
LOT NO.		4115	4116	4117	4118	4119	4120	4121	4122	4122

MH / MS COVER TYPE	B	D	B	B	B	B	B	B	B	B	LRB
MH / MS TYPE	A	A	LRB	LRB	A	LRB	J	V	V	LRB	
MH DROP TYPE	V	V			X	X					
LINE NO.	2	2			6	2					
PROPERTY CONNECTION DEPTH			1.250								
PROPERTY CONNECTION INVERT LEVEL			45.874								
PROPERTY CONNECTION TYPE			B								
LOT NO.			4456								

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

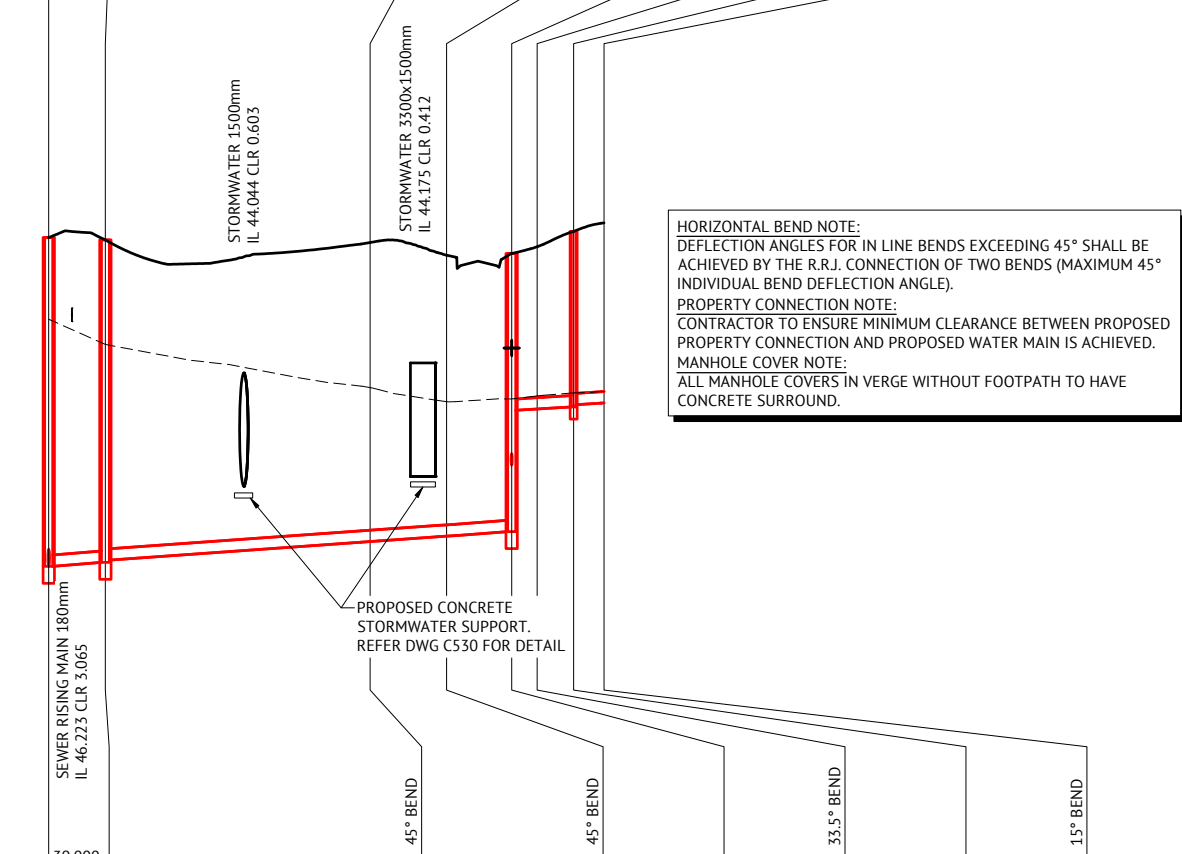
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.050
B	CONCRETE MANHOLE 1.200
C	CONCRETE MANHOLE 1.500
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
LRB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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.

DATUM RL	47.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	80 50 50 50 50 56 56 56 56
LENGTH	21.470 41.117 0.105 0.105 21.879 16.275 0.096 0.097 61.110
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	1.997 2.090 2.060 2.033 2.033 2.033 2.162 2.132 2.164 2.164 2.164 2.004
INVERT LEVEL (IL)	50.756 51.024 51.054 51.877 51.879 51.881 52.319 52.349 52.642 52.643 52.645 53.745
FINISHED SURFACE LEVEL (FSL)	52.752 53.114 53.910 53.912 53.914 54.481 54.805 54.807 54.809 55.749
EXISTING SURFACE LEVEL (ESL)	52.616 53.077 54.100 54.102 54.105 54.543 54.789 54.791 54.793 55.390
CHAINAGE (CH)	525.566 547.036 588.153 588.257 588.362 610.241 626.516 626.612 626.709 687.819

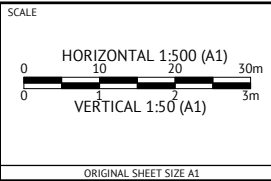
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	134 143 143 143 143 143 143 143 180 180 180 180 180 180
LENGTH	9.494 31.245 1.178 1.178 7.767 1.178 1.178 7.428 2.489 0.877 0.877 3.953 3.630 0.393
EMBODIMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	4.349 4.111 4.081 3.943 3.954 3.967 3.758 3.717 3.682 3.679 2.076 2.123 2.145 2.175 2.322 2.292 2.379 2.383
INVERT LEVEL (IL)	42.987 43.057 43.087 43.306 43.314 43.322 43.377 43.385 43.393 43.445 45.049 45.063 45.067 45.072 45.094 45.124 45.144 45.147
FINISHED SURFACE LEVEL (FSL)	47.336 47.168 47.168 47.249 47.268 47.289 47.135 47.102 47.076 47.124 47.186 47.213 47.248 47.248 47.417 47.528 47.523 47.529
EXISTING SURFACE LEVEL (ESL)	46.254 45.872 45.872 45.370 45.351 45.323 45.181 45.165 45.164 45.200 45.230 45.240 45.248 45.281 45.298 45.301
CHAINAGE (CH)	0.000 9.494 40.740 41.918 43.096 50.863 52.041 53.219 60.647 63.136 64.013 64.891 66.844 72.474 72.867

FOR CONSTRUCTION



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PATRICK BRADY



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 3

JOB CODE
MIR-1004
 SHEET NUMBER
C522
 REV
B

DATE	REV	DESCRIPTION	REV	APP
01/05/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

MAINTENANCE HOLE / SHAFT NO.	HB4/2	HB5/2	4/2	5/2	HB6/2	HB7/2	6/2	7/2	HB8/2	8/2	HB9/2	HB10/2	9/2	HB11/2	HB12/2	10/2	HB13/2
MH / MS COVER TYPE			B	B			B	B		B			B			B	
MH / MS TYPE	LRB	LRB	A	J	LRB	LRB	A	A	LRB	J	LRB	LRB	J	LRB	LRB	J	LRB
MH DROP TYPE			V	W	V		V	V		V			V			V	
LINE NO.			7	2	2		13	2	10	2			2			2	
PROPERTY CONNECTION DEPTH		1.250			1.250			1.250		1.250			1.250			1.250	
PROPERTY CONNECTION INVERT LEVEL		46.614			46.825		47.688		47.547		47.651		47.855		48.064		48.271
PROPERTY CONNECTION TYPE		D			B		B		B		B		B		B		B
LOT NO.	4457	4458			4461		4401		4400		4399		4398		4397		4396

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

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)

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

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

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.I. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).
PROPERTY CONNECTION NOTE:
 CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.
MANHOLE COVER NOTE:
 ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

DATUM RL	41.000																																							
PROPERTY DESCRIPTION	RR																																							
PIPE SIZE (mm), CLASS	DN150 uPVC SN8																																							
GRADE (1 IN X)	180	180	180	180	180	50	91	91	91	91	91	91	180	180	180	180	180	180	142	142	143	143	143	143	179	179														
LENGTH	0.393	43.691	0.393	0.393	5.535	17.679	2.715	0.933	0.933	29.508	1.178	1.178	7.235	15.888	7.472	0.122	0.122	7.515	11.964	0.124	0.124	15.097	0.109	0.109	7.456	7.893	0.113	0.108	15.415	0.108	0.107	7.400	7.133	0.111						
EMBEDMENT TYPE	TYPE 3																																							
DEPTH OF INVERT BELOW FSL	2.383	2.364	2.620	2.623	2.628	2.633	2.328	1.990	1.960	2.065	2.090	2.115	2.045	2.057	2.089	2.386	2.307	2.175	2.095	1.956	1.954	1.953	1.870	1.840	1.793	1.890	1.891	1.891	1.953	1.923	1.970	1.971	1.971	2.069	2.070	2.071	2.121	2.091	2.143	2.144
INVERT LEVEL (IL)	45.147	45.149	45.392	45.394	45.396	45.427	45.731	46.085	46.115	46.145	46.155	46.165	46.490	46.503	46.516	46.595	46.674	46.762	46.842	46.884	46.885	46.885	46.927	46.957	47.024	47.024	47.110	47.110	47.152	47.182	47.237	47.238	47.239	47.348	47.348	47.400	47.430	47.470	47.470	
FINISHED SURFACE LEVEL (FSL)	47.529	47.512	48.012	48.017	48.024	48.060	48.075	48.210	48.245	48.280	48.355	48.560	48.605	48.982	48.958	48.840	48.839	48.838	48.797	48.817	48.817	48.818	48.999	49.000	49.002	49.105	49.105	49.207	49.209	49.210	49.416	49.418	49.419	49.521	49.613	49.615				
EXISTING SURFACE LEVEL (ESL)	45.301	45.303	45.932	45.948	45.964	46.178	46.889	46.966	46.996	47.034	48.364	48.423	48.481	48.807	49.594	49.443	49.441	49.439	49.333	49.177	49.176	49.175	49.104	49.103	49.101	49.056	49.009	49.009	49.009	49.102	49.102	49.105	49.138	49.175	49.175					
CHAINAGE (CH)	72.867	73.260	116.950	117.343	117.736	123.271	140.950	143.664	144.598	145.531	175.039	176.217	177.395	184.630	200.518	207.990	208.112	208.234	215.748	227.713	227.837	227.961	243.058	243.166	243.275	250.732	258.624	258.737	258.845	274.260	274.368	274.475	281.875	289.007	289.118					

LINE 2

<p>FOR CONSTRUCTION</p> <p>01/03/2024 B ISSUED FOR CONSTRUCTION KK PB</p> <p>20/10/2023 A ISSUED FOR APPROVAL KK PB</p> <p>DATE REV DESCRIPTION REC APP</p>	<p>Premise</p> <p>BRISBANE OFFICE</p> <p>LEVEL 11, 300 ADELAIDE STREET</p> <p>BRISBANE, QLD 4000</p> <p>PH: (07) 3253 2222</p> <p>WEB: www.premise.com.au</p>	<p>DESIGNED KLYNT KIWANG</p> <p>CHECKED ANDREW LANGDON</p> <p>PROJECT MANAGER LAURA CLIFFORD</p> <p>PROJECT DIRECTOR PATRICK BRADY</p>	<p>SCALE</p> <p>HORIZONTAL 1:500 (A1)</p> <p>VERTICAL 1:50 (A1)</p> <p>ORIGINAL SHEET SIZE A1</p>	<p>CLIENT MIRVAC QLD PTY LTD</p> <p>PROJECT EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT</p> <p>LOCATION TEVIOT ROAD, GREENBANK</p> <p>SHEET TITLE SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 4</p>	<p>JOB CODE MIR-1004</p> <p>SHEET NUMBER C523</p> <p>REV B</p>

MAINTENANCE HOLE / SHAFT NO.	HB13/2	HB14/2	11/2	HB15/2	HB16/2	12/2	13/2	HB17/2	HB18/2	14/2	HB19/2	HB20/2	15/2	16/2	HB21/2	HB22/2	17/2
MH / MS COVER TYPE			B			B	B			B			B	B			B
MH / MS TYPE	LRB	LRB	J	LRB	LRB	J	A	LRB	LRB	J	LRB	LRB	A	A	LRB	LRB	J
MH DROP TYPE			V			V	V			V			V	V			V
LINE NO.			2			2	15	2		2			17	2	18	2	2
PROPERTY CONNECTION DEPTH	48.470	48.689			49.250	49.358		49.532		50.187	50.294						
PROPERTY CONNECTION INVERT LEVEL																	
PROPERTY CONNECTION TYPE	B	B			B	B		B		B	B						
LOT NO.	4395	4394			4349	4348		4347		4327	4326						

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

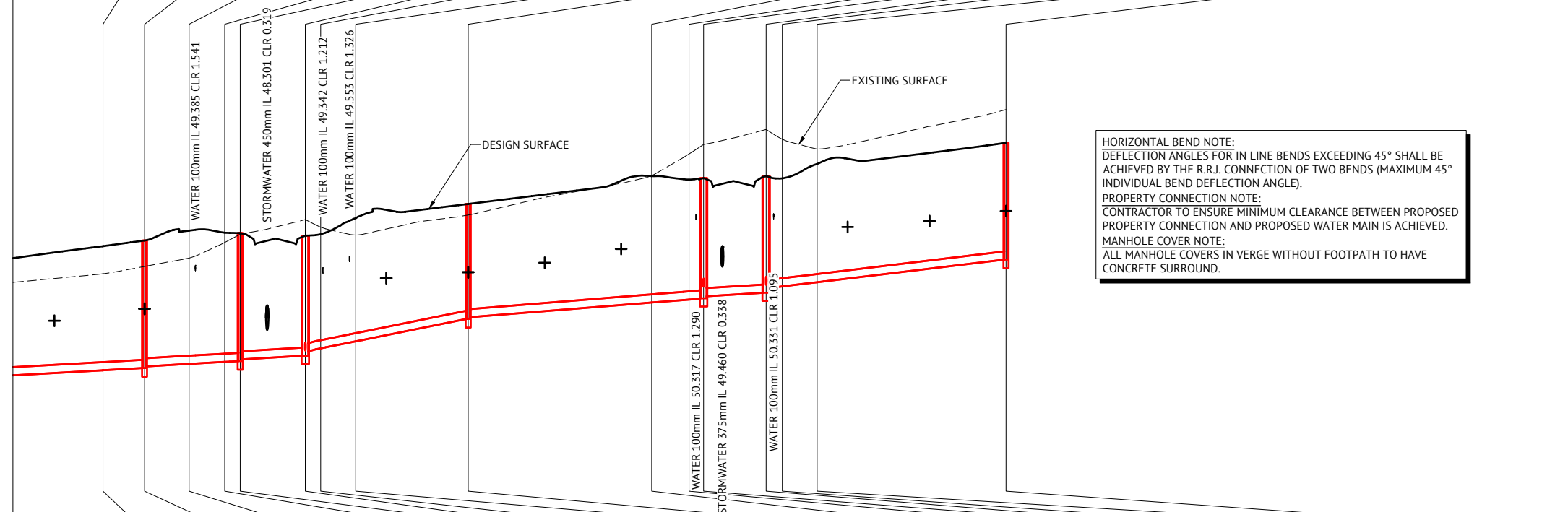
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.05Ø
B	CONCRETE MANHOLE 1.20Ø
C	CONCRETE MANHOLE 1.50Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
LRB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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.

DATUM RL	43.000																																									
PROPERTY DESCRIPTION	RR																																									
PIPE SIZE (mm), CLASS	DN150 uPVC SN8																																									
GRADE (1 IN X)	180	180	180	180	180	180	180	180	180	180	180	180	180	180	50	50	50	50	50	50	50	125	125	125	125	125	125	125	180	83	83	83	83	83	83	83	83					
LENGTH	0.110	16.282	0.107	0.108	7.503	6.969	1.178	1.178	4.424	0.918	0.918	1.927	11.924	1.920	0.890	0.890	4.359	1.171	1.185	19.406	32.406	1.178	1.178	4.619	1.049	1.049	1.619	11.450	1.778	1.178	1.178	4.022	1.178	1.178	33.406							
EMBEDMENT TYPE	TYPE 3																																									
DEPTH OF INVERT BELOW FSL	2.144	2.145	2.272	2.273	2.274	2.335	2.305	2.485	2.491	2.495	2.412	2.391	2.376	2.350	2.320	2.199	2.119	2.126	2.125	2.139	2.284	2.307	2.338	2.104	2.074	2.331	2.315	2.308	2.213	2.195	2.196	2.202	2.162	2.155	2.055	1.992	1.980	1.991	2.137	2.166	2.204	2.139
INVERT LEVEL (IL)	47.470	47.471	47.562	47.562	47.563	47.605	47.635	47.673	47.680	47.686	47.711	47.716	47.721	47.732	47.762	47.828	47.908	47.947	47.964	47.982	48.069	48.093	48.116	48.505	48.535	48.794	48.803	48.813	48.850	48.858	48.867	48.879	48.919	48.983	49.063	49.084	49.099	49.113	49.161	49.175	49.189	49.590
FINISHED SURFACE LEVEL (FSL)	49.615	49.616	49.834	49.835	49.837	49.939	49.959	50.159	50.171	50.182	50.123	50.107	50.097	50.082	50.055	50.027	50.027	50.072	50.090	50.121	50.354	50.400	50.454	50.608	50.608	51.125	51.119	51.120	51.063	51.053	51.063	51.081	51.118	51.118	51.076	51.078	51.104	51.298	51.341	51.393	51.729	
EXISTING SURFACE LEVEL (ESL)	49.173	49.174	49.328	49.330	49.331	49.464	49.595	49.617	49.617	49.656	49.857	49.902	49.951	50.055	50.322	50.224	50.183	50.155	50.052	50.038	50.052	50.406	51.087	51.128	51.189	51.460	51.525	51.591	51.697	51.972	51.860	51.793	51.748	51.641	51.614	51.619	52.337					
CHAINAGE (CH)	289.118	289.228	305.511	305.618	305.725	313.229	320.198	321.376	321.554	326.979	327.897	328.815	330.743	342.667	344.586	345.476	346.366	350.725	351.896	353.081	372.488	404.894	406.072	407.250	411.869	412.918	413.967	415.586	427.036	428.814	429.992	431.170	435.192	436.370	437.548	470.954						

LINE 2

FOR CONSTRUCTION

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
LAURA CLIFFORD
 PROJECT DIRECTOR
PATRICK BRADY

SCALE
 HORIZONTAL 1:500 (A1)
 VERTICAL 1:50 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 5

JOB CODE
MIR-1004
 SHEET NUMBER
C524
 REV
B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

MAINTENANCE HOLE / SHAFT NO.	(17/2)	(HB23/2)	(18/2)	(HB24/2)	(19/2)	(HB25/2)	(TE1/2)
MH / MS COVER TYPE	B		B		B		TE
MH / MS TYPE	J	LRB	A	LRB	J	LRB	
MH DROP TYPE	V		V		V		
LINE NO.	2		19	2	2		
PROPERTY CONNECTION DEPTH	1.250	1.250	1.250	1.250	1.250	1.250	1.250
PROPERTY CONNECTION INVERT LEVEL	50.479	50.706	50.968	51.271	51.537	51.824	52.168
PROPERTY CONNECTION TYPE	B	B	B	B	B	B	B
LOT NO.	4325	4324	4323	4322	4321	4320	4319

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

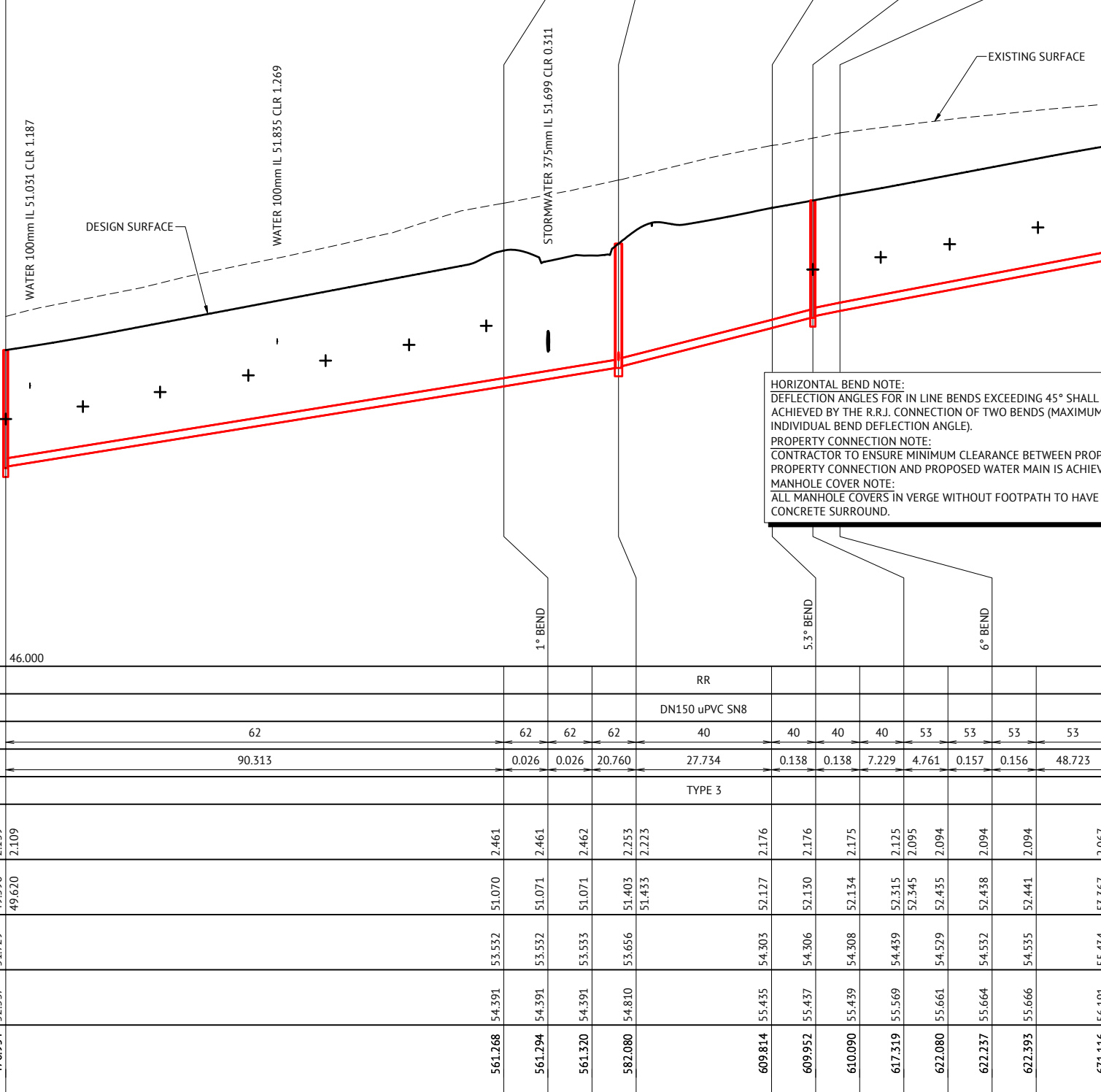
PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

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

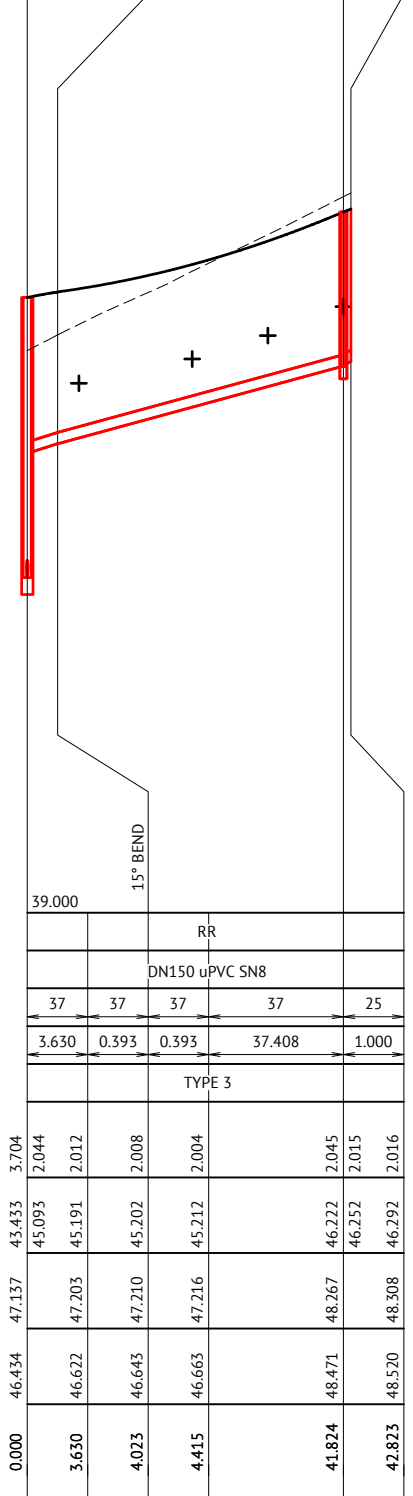
PROPERTY DESCRIPTION					RR										
PIPE SIZE (mm), CLASS					DN150 uPVC SN8										
GRADE (1 IN X)			62	62	62	62	40	40	40	40	53	53	53	53	
LENGTH		90.313		0.026	0.026	20.760	27.734	0.138	0.138	7.229	4.761	0.157	0.156	48.723	
EMBEDMENT TYPE							TYPE 3								
DEPTH OF INVERT BELOW FSL	2.139	2.109		2.461	2.461	2.462	2.253	2.223	2.176	2.176	2.175	2.125	2.095	2.094	2.067
INVERT LEVEL (IL)	49.590	49.620	51.070	51.071	51.071	51.403	51.433	52.127	52.130	52.134	52.315	52.345	52.438	52.441	53.367
FINISHED SURFACE LEVEL (FSL)	51.729	53.532	53.532	53.533	53.656	54.303	54.306	54.308	54.439	54.529	54.532	54.535	54.535	55.434	
EXISTING SURFACE LEVEL (ESL)	52.337	54.391	54.391	54.391	54.810	55.435	55.437	55.439	55.569	55.661	55.664	55.666	56.191	56.191	
CHAINAGE (CH)	470.954	561.268	561.294	561.320	582.080	609.814	609.952	610.090	617.319	622.080	622.237	622.393	671.116		

LINE 2



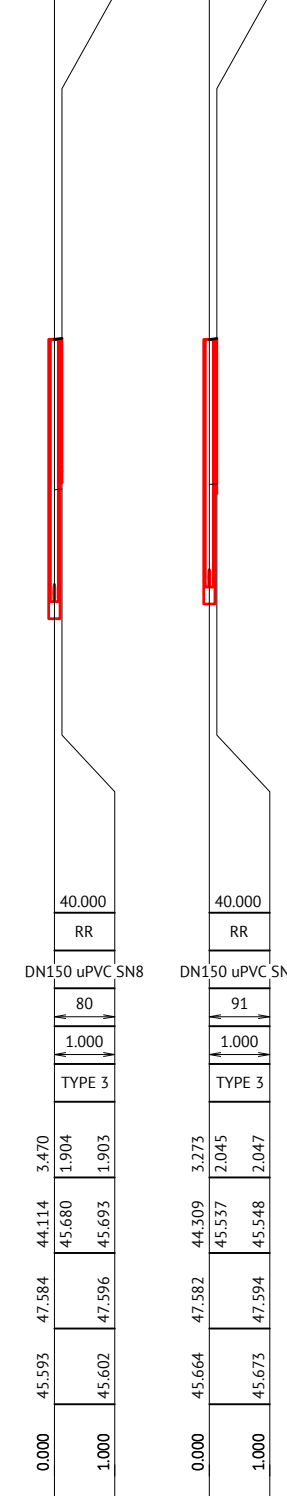
HORIZONTAL BEND NOTE:
DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).
PROPERTY CONNECTION NOTE:
CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN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

(4/1)	(HB1/3)	(1/3)	(TE1/3)
B		B	TE
A	LRB	J	
X		V	
3		3	
46.002	46.323	46.633	47.017
1.250	1.250	1.250	1.250
B	B	B	B
4566	4565	4564	4563



LINE 3

(6/1)	(TE1/4)	(7/1)	(TE1/5)
B		B	TE
A		A	
X		X	
4		5	
40.000		40.000	
80		91	
1.000		1.000	
TYPE 3		TYPE 3	
44.114	44.309	44.537	44.823
1.904	2.045	2.045	2.047
B	B	B	B
44.114	44.309	44.537	44.823



LINE 4
LINE 5

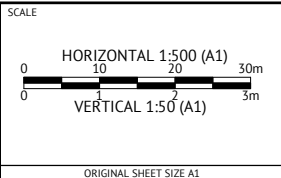
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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
LAURA CLIFFORD
PROJECT DIRECTOR
[Signature]
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 6

JOB CODE
MIR-1004
SHEET NUMBER
C525
REV
B

MAINTENANCE HOLE / SHAFT NO. 2/2 TE1/6 4/2 TE1/7 7/2 TE1/10 6/2 TE1/13 13/2 TE1/15 15/2 1/17

MH / MS COVER TYPE	B	TE
MH / MS TYPE	A	
MH DROP TYPE	X X	
LINE NO.	6 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		

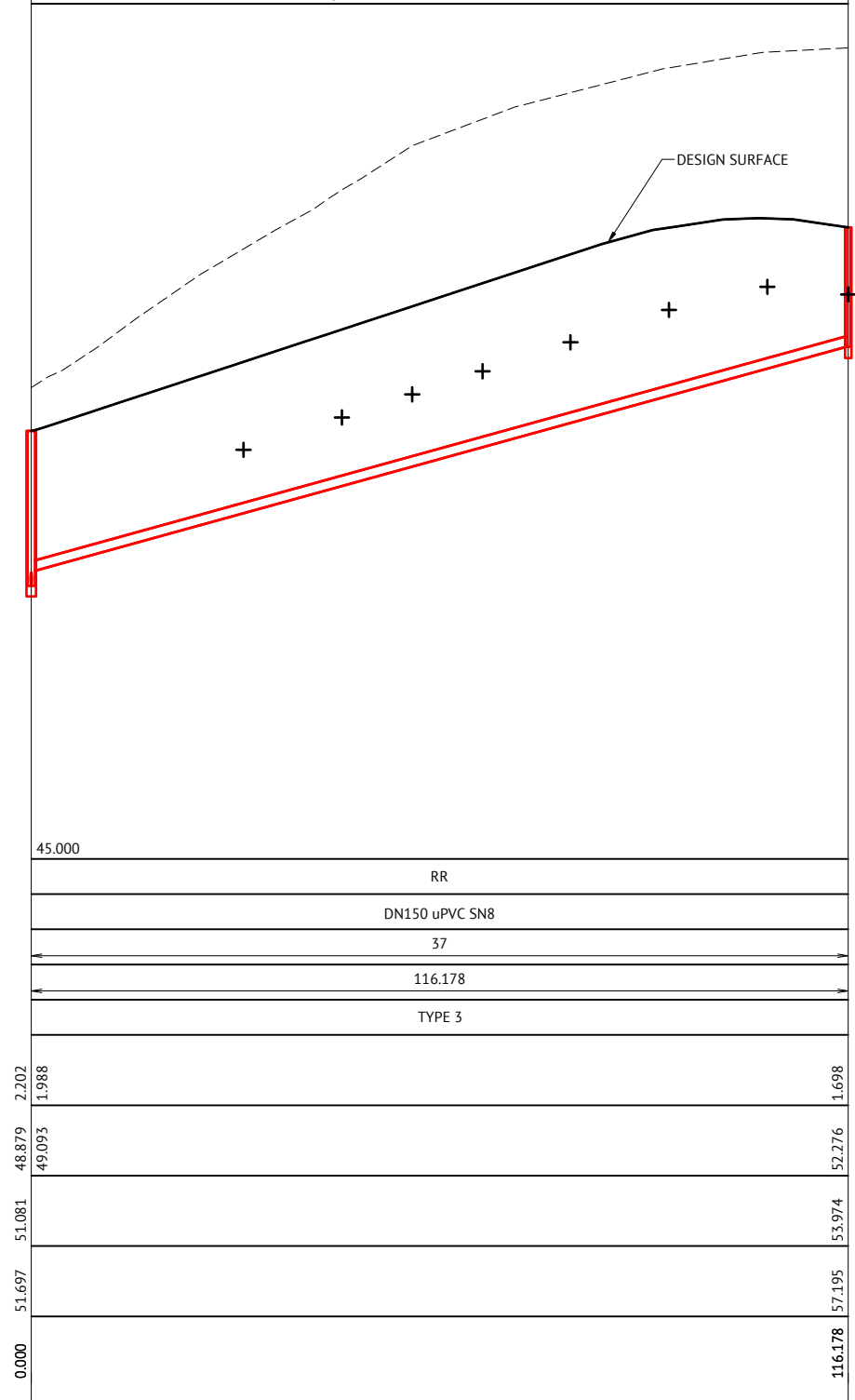
MH / MS COVER TYPE	B	TE
MH / MS TYPE	A	
MH DROP TYPE	V W	
LINE NO.	7 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		

MH / MS COVER TYPE	B	TE
MH / MS TYPE	A	
MH DROP TYPE	V V	
LINE NO.	10 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		

MH / MS COVER TYPE	B	TE
MH / MS TYPE	A	
MH DROP TYPE	V V	
LINE NO.	13 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		

MH / MS COVER TYPE	B	TE
MH / MS TYPE	A	
MH DROP TYPE	V V	
LINE NO.	15 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		

MH / MS COVER TYPE	B	
MH / MS TYPE	A	
MH DROP TYPE	V V	
LINE NO.	17 2	
PROPERTY CONNECTION DEPTH		
PROPERTY CONNECTION INVERT LEVEL		
PROPERTY CONNECTION TYPE		
LOT NO.		



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	39.000	40.000	42.000	42.000	43.000	45.000
PROPERTY DESCRIPTION	RR	RR	RR	RR	RR	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8	DN150 uPVC SN8
GRADE (1 IN X)	180	100	59	48	180	37
LENGTH	1.000	1.000	1.000	1.000	1.000	116.178
EMBEDMENT TYPE	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3	TYPE 3
DEPTH OF INVERT BELOW FSL	3.679	2.633	2.175	2.386	2.199	1.988
INVERT LEVEL (IL)	43.445	45.427	46.762	46.595	47.828	48.879
FINISHED SURFACE LEVEL (FSL)	47.124	48.060	48.938	48.982	50.027	51.081
EXISTING SURFACE LEVEL (ESL)	45.200	46.206	49.594	48.807	50.322	51.697
CHAINAGE (CH)	0.000	1.000	1.000	1.000	1.000	116.178

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.

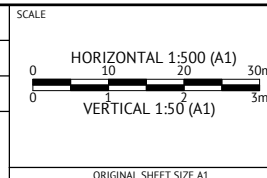
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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BRISBANE, QLD 4000
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DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
LAURA CLIFFORD
PROJECT DIRECTOR
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 7

JOB CODE MIR-1004	REV B
SHEET NUMBER C526	

MAINTENANCE HOLE / SHAFT NO. 16/2 1/18

MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	V
LINE NO.	18	2
PROPERTY CONNECTION DEPTH		1.250
PROPERTY CONNECTION INVERT LEVEL		50.916
PROPERTY CONNECTION TYPE	B	B
LOT NO.	4328	4333

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.050
B	CONCRETE MANHOLE 1.200
C	CONCRETE MANHOLE 1.500
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

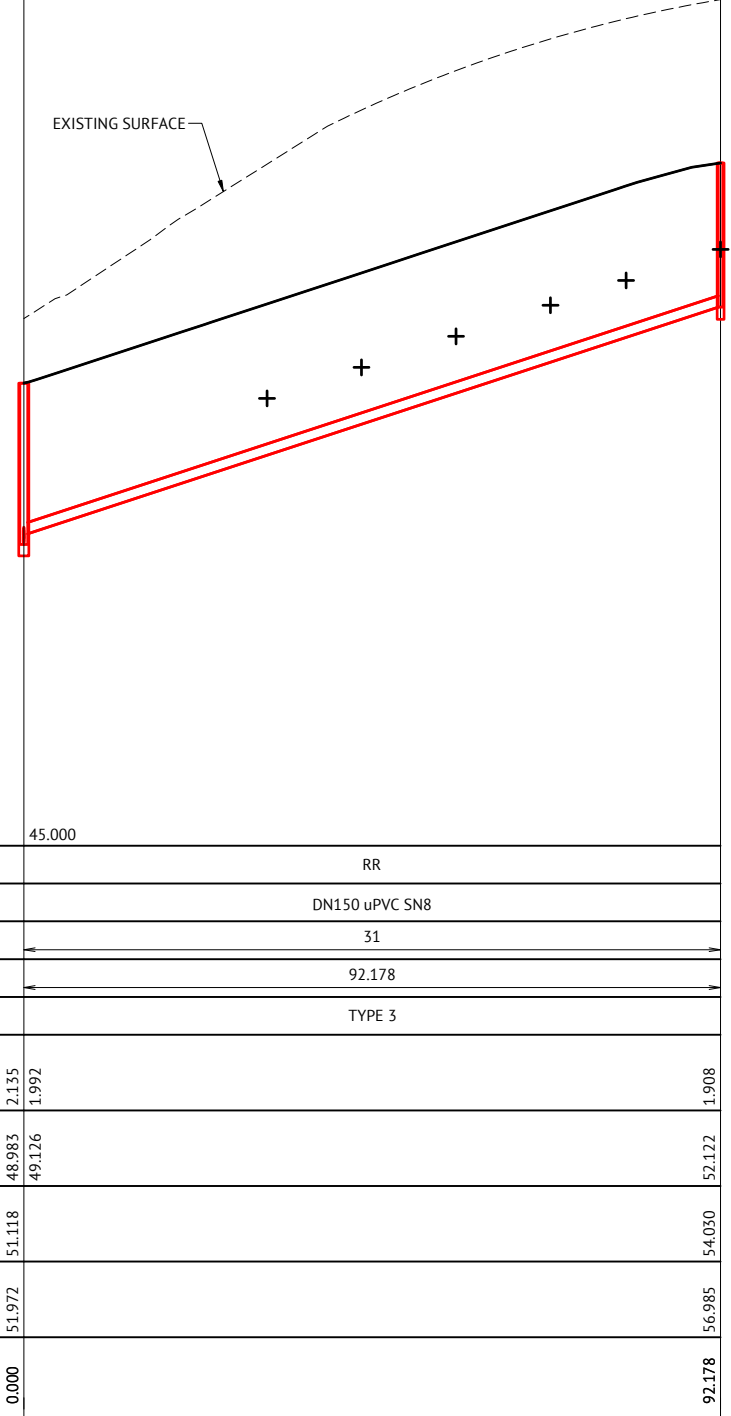
MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP
Z	MAINTENANCE SHAFT DROP

PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

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

DATUM RL	45.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	31
LENGTH	92.178
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.155
INVERT LEVEL (IL)	48.983
FINISHED SURFACE LEVEL (FSL)	51.118
EXISTING SURFACE LEVEL (ESL)	51.972
CHAINAGE (CH)	0.000

LINE 18

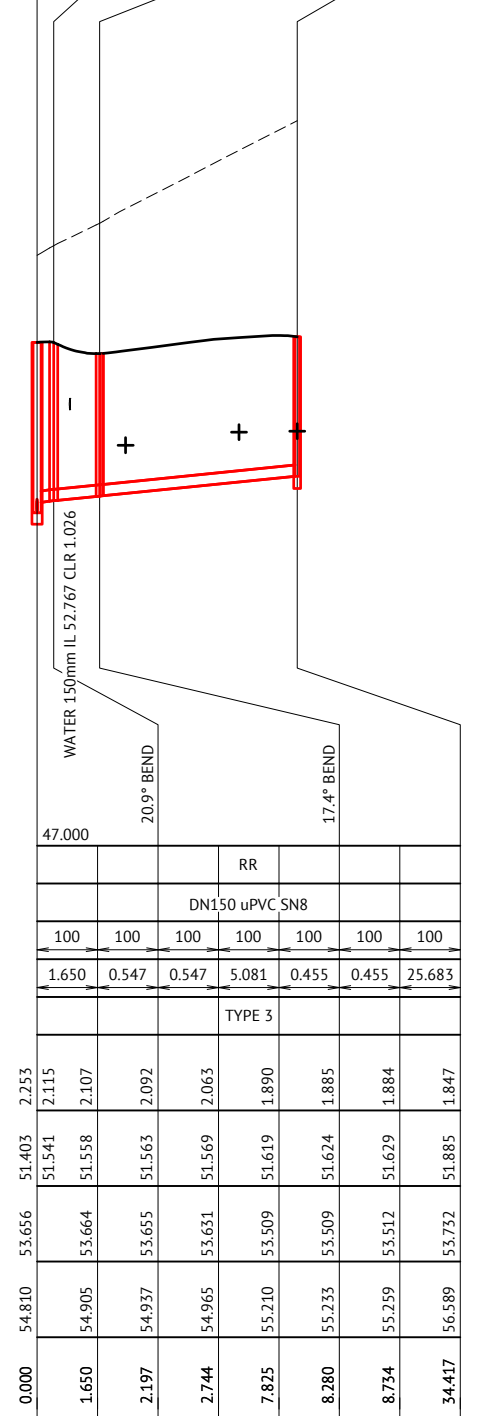


18/2 HB1/19 HB2/19 1/19

MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	V
LINE NO.	19	2
PROPERTY CONNECTION DEPTH		1.250
PROPERTY CONNECTION INVERT LEVEL		52.297
PROPERTY CONNECTION TYPE	B	B
LOT NO.	4272	4274

DATUM RL	47.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100
LENGTH	1.650
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.253
INVERT LEVEL (IL)	51.403
FINISHED SURFACE LEVEL (FSL)	53.656
EXISTING SURFACE LEVEL (ESL)	54.810
CHAINAGE (CH)	0.000

19

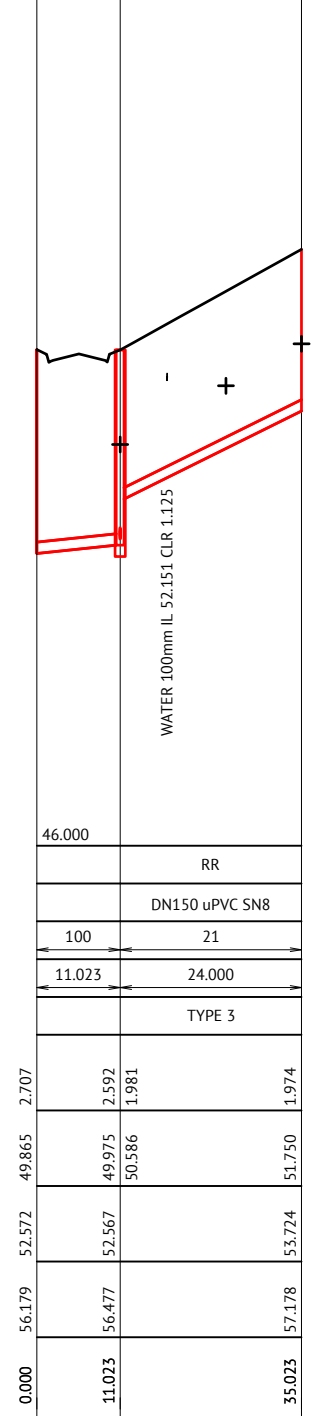


TE1/37 4/37 E/37

MH / MS COVER TYPE	B	END
MH / MS TYPE	A	J
MH DROP TYPE	V	X
LINE NO.	38	37
PROPERTY CONNECTION DEPTH		1.250
PROPERTY CONNECTION INVERT LEVEL		51.317
PROPERTY CONNECTION TYPE	B	B
LOT NO.	4355	4357

DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100
LENGTH	11.023
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.707
INVERT LEVEL (IL)	49.865
FINISHED SURFACE LEVEL (FSL)	52.572
EXISTING SURFACE LEVEL (ESL)	56.179
CHAINAGE (CH)	0.000

37

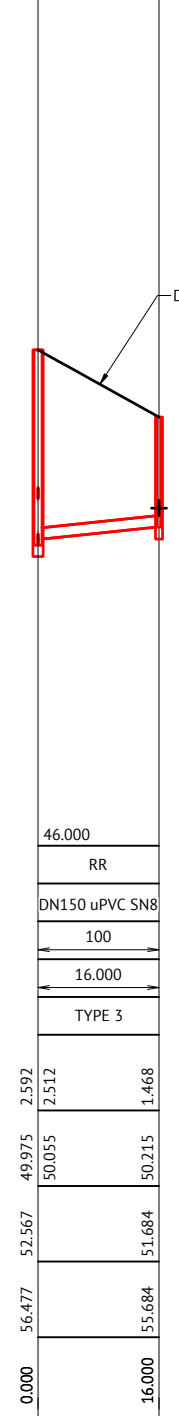


4/37 E/38

MH / MS COVER TYPE	B	B
MH / MS TYPE	A	J
MH DROP TYPE	V	X
LINE NO.	38	37
PROPERTY CONNECTION DEPTH		1.250
PROPERTY CONNECTION INVERT LEVEL		50.455
PROPERTY CONNECTION TYPE	A	A
LOT NO.	4334	4334

DATUM RL	46.000
PROPERTY DESCRIPTION	RR
PIPE SIZE (mm), CLASS	DN150 uPVC SN8
GRADE (1 IN X)	100
LENGTH	16.000
EMBEDMENT TYPE	TYPE 3
DEPTH OF INVERT BELOW FSL	2.592
INVERT LEVEL (IL)	49.975
FINISHED SURFACE LEVEL (FSL)	52.567
EXISTING SURFACE LEVEL (ESL)	56.477
CHAINAGE (CH)	0.000

38



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.

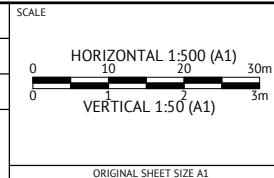
MANHOLE COVER NOTE:
 ALL MANHOLE COVERS IN VERGE WITHOUT FOOTPATH TO HAVE CONCRETE SURROUND.

FOR CONSTRUCTION

01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

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LAURA CLIFFORD
 PROJECT DIRECTOR
PATRICK BRADY

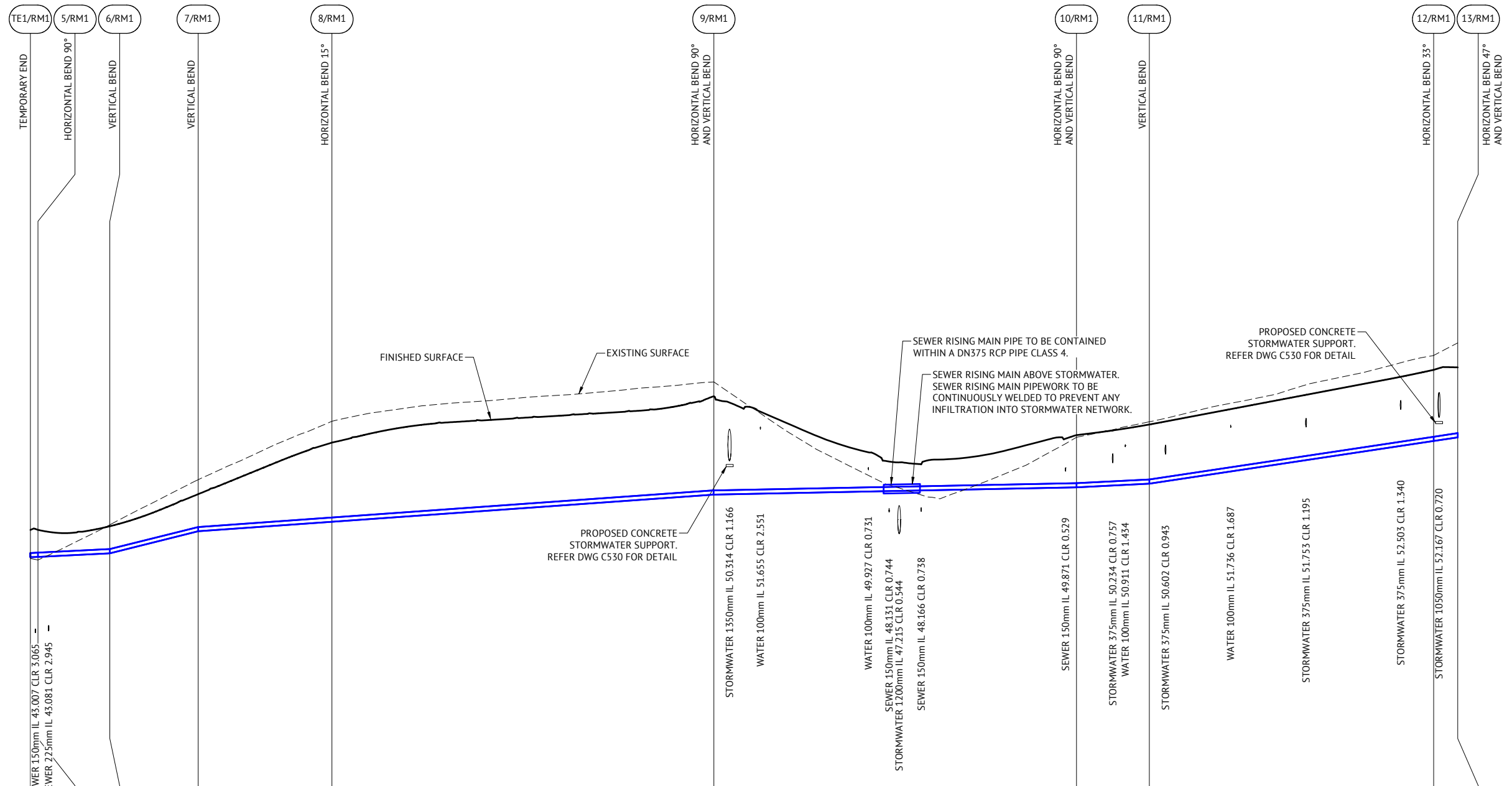


CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE GRAVITY MAIN LONG SECTIONS - SHEET 8

JOB CODE
MIR-1004
 SHEET NUMBER
C527
 REV
B

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

- 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 R.L.	35.000														
STREET ETC	PP														
PIPE SIZE (mm), CLASS	RR														
GRADE (1 IN X)	DN180mm PE100 SDR11														
LENGTH	3.250	30.560	37.598	56.901	162.471	154.250	30.984	120.953	10.248	66.7	66.6	500	141	200	200
DEPTH TO INVERT	1.165	1.149	1.177	1.579	3.368	4.183	2.272	2.519	3.026	2.978	3.026	4.183	4.183	4.183	4.183
INVERT LEVEL	46.212	46.228	46.381	47.317	47.722	48.877	49.185	49.340	51.157	51.311	51.157	48.877	47.722	46.381	46.228
FINISHED SURFACE LEVEL	47.375	47.377	47.558	48.897	51.090	53.060	51.407	51.859	54.184	54.289	54.184	53.060	48.897	47.558	47.377
CHAINAGE	54.397	57.647	88.207	125.805	182.706	345.177	499.427	530.410	651.363	661.612	651.363	345.177	182.706	88.207	57.647

FOR CONSTRUCTION

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 NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

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

CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 SEWERAGE RISING MAIN LONG SECTIONS - SHEET 1

JOB CODE
 MIR-1004
 SHEET NUMBER
 C528
 REV
 B

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

LEGEND RR DENOTES ROAD RESERVE
PP DENOTES PRIVATE PROPERTY

- 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.



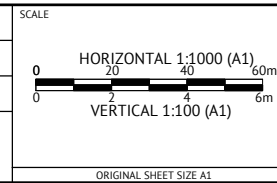
DATUM R.L.	59.000	
STREET ETC		RR
PIPE SIZE (mm), CLASS		DN180mm PE100 SDR11
GRADE (1 IN X)		-39.7
LENGTH		78.854
DEPTH TO INVERT	2.978	2.382
INVERT LEVEL	51.311	53.297
FINISHED SURFACE LEVEL	54.289	55.678
CHAINAGE	661.612	740.465

FOR CONSTRUCTION



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 RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE RISING MAIN LONG SECTIONS - SHEET 2

JOB CODE
MIR-1004
 SHEET NUMBER
C529
 REV
B

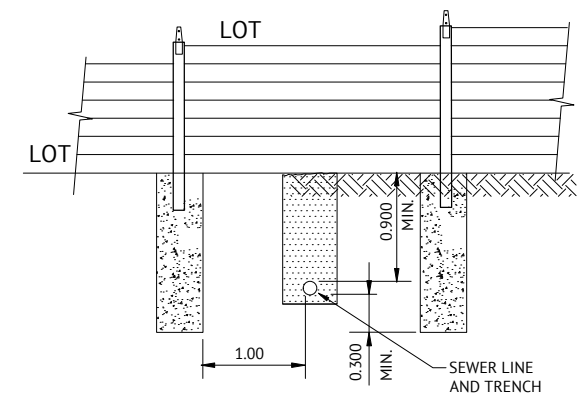
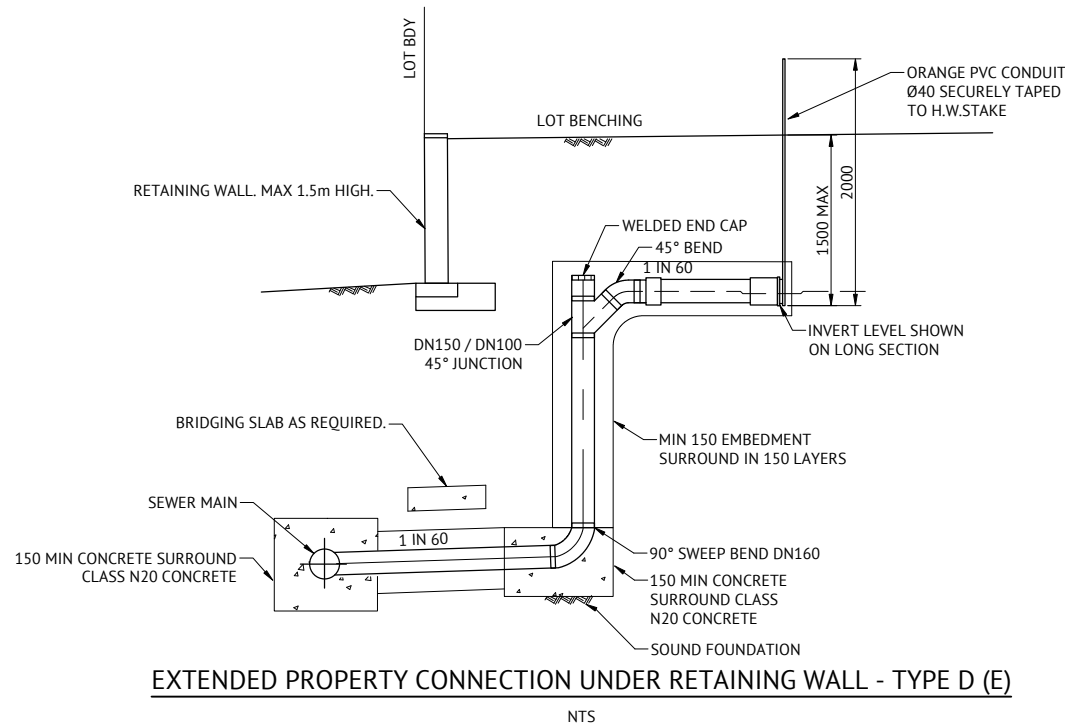
DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

LIVE SEWER WORKS

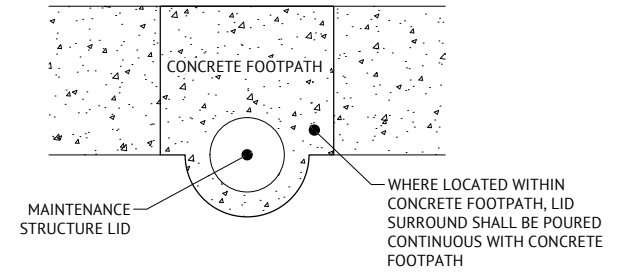
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/2, CONSTRUCTOR TO LAY NEW LINE 2. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/2	END	-	4110	55.434	56.191	53.367	2.067
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 2 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP TE1/37, CONSTRUCTOR TO LAY NEW LINE 37. AFTER CLEANSING, TESTING AND INSPECTING. AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 37 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	150	TE1/37	END	-	4294	52.572	56.179	49.865	2.707
2(B)										
3(A)	0.5m FROM STUB END CAP TE2/RM1, CONSTRUCTOR TO LAY NEW LINE RM1. AFTER CLEANSING, TESTING AND INSPECTING. AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE RM1 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	180	TE2/RM1	END	-	4108	55.678	56.073	53.297	2.382
3(B)										

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

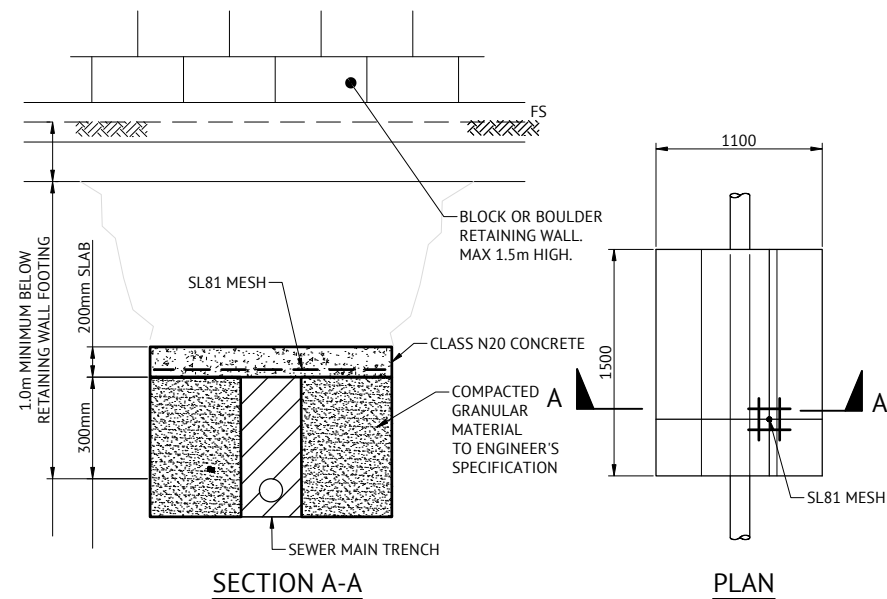
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE 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.



SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL
NTS



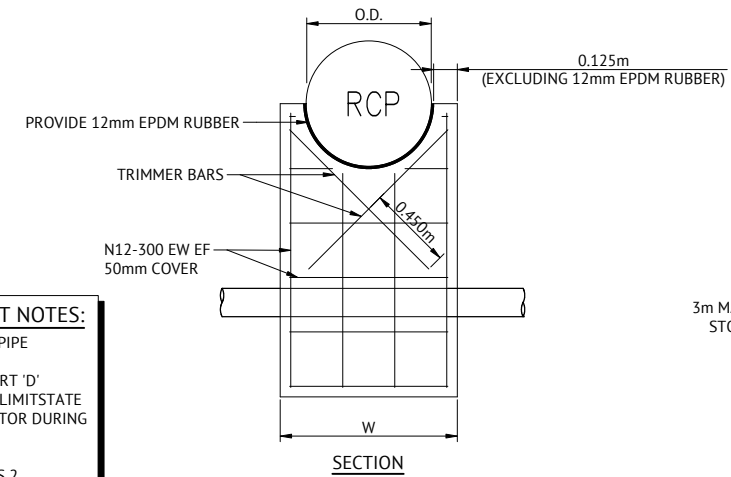
TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL
NTS



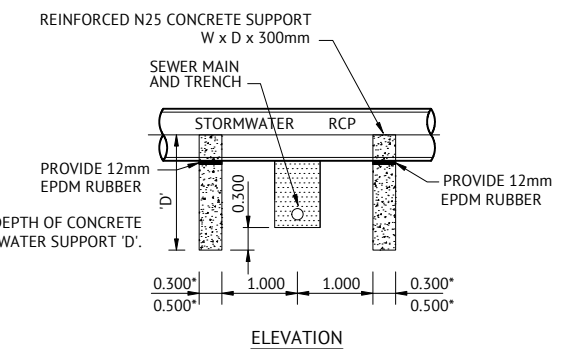
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL
NTS

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

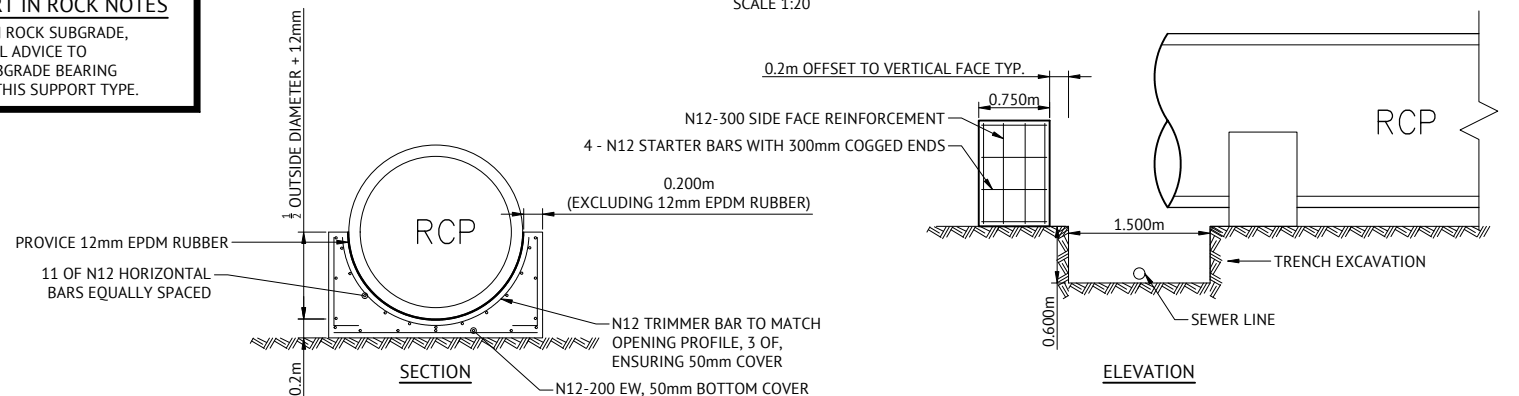
- CONCRETE STORMWATER SUPPORT IN ROCK NOTES**
- WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.



CONCRETE STORMWATER SUPPORT TYPICAL DETAIL
SCALE 1:20



CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL
SCALE 1:40



CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL
SCALE 1:40

STRUCTURAL DETAILS APPROVED DATE 11/05/2024
ARTHUR ROWSON RPEQ 12412

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/05/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

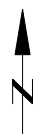
Premise
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DESIGNED: KLYNT KIWANG
CHECKED: ANDREW LANGDON
PROJECT MANAGER: NICK SOMERVILLE
PROJECT DIRECTOR: PATRICK BRADY
RPEQ 7112

SCALE: NTS
ORIGINAL SHEET SIZE A1

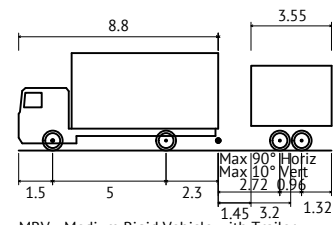
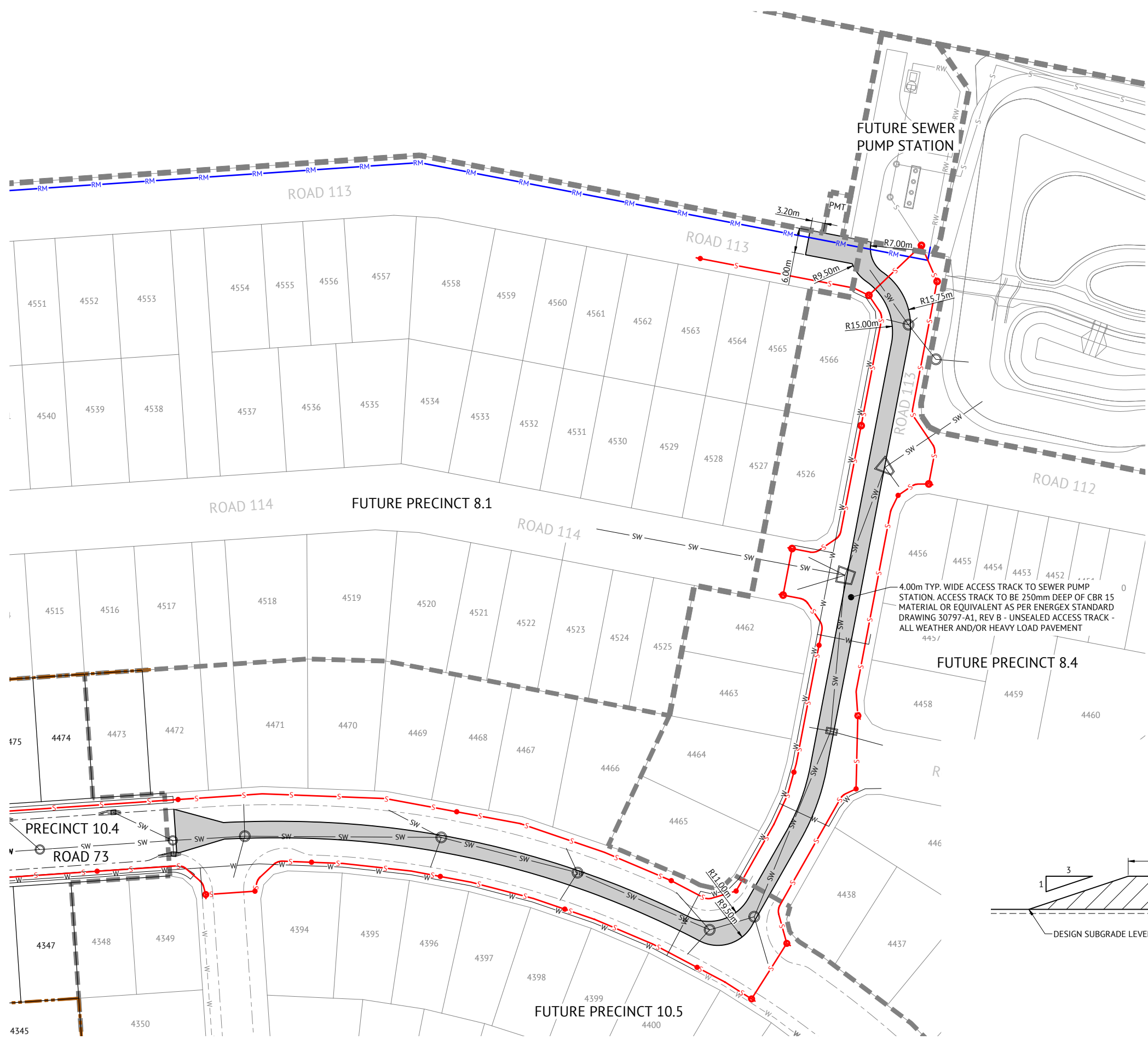
CLIENT: MIRVAC QLD PTY LTD
PROJECT: EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: SEWERAGE NOTES AND DETAILS

JOB CODE: MIR-1004
SHEET NUMBER: C530
REV: B



LEGEND - PROPOSED

- S — GRAVITY SEWER
- RM — SEWER RISING MAIN
- 38 LOT NUMBER
- SW — STORMWATER DRAINAGE
- W — DRINKING WATER MAIN
- E — ELECTRICAL (PROPOSED)
- 4.00m WIDE ACCESS TRACK TO SEWER PUMP STATION. DESIGN VEHICLE MEDIUM RIGID VEHICLE WITH TRAILER.
- — STAGE BOUNDARY

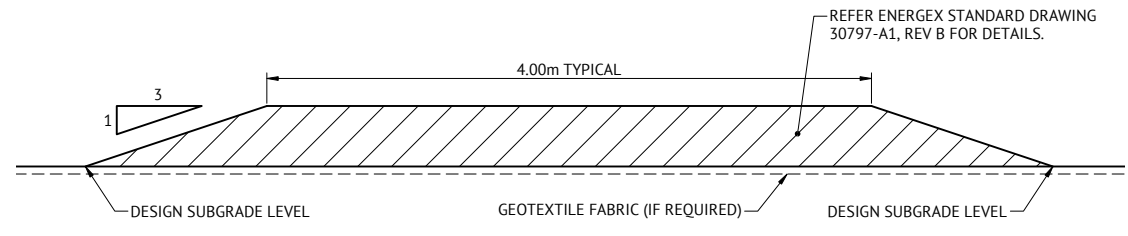


MRV - Medium Rigid Vehicle with Trailer

Overall Length	13.800m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.315m
Track Width	2.500m
Lock-to-lock time	4.00s
Curb to Curb Turning Radius	12.500m

MEDIUM RIGID VEHICLE WITH TRAILER
SCALE N.T.S.

4.00m TYP. WIDE ACCESS TRACK TO SEWER PUMP STATION. ACCESS TRACK TO BE 250mm DEEP OF CBR 15 MATERIAL OR EQUIVALENT AS PER ENERGETX STANDARD DRAWING 30797-A1, REV B - UNSEALED ACCESS TRACK - ALL WEATHER AND/OR HEAVY LOAD PAVEMENT



ACCESS TRACK TYPICAL SECTION
SCALE 1:25

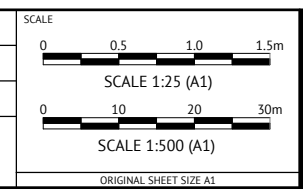
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION		KK	PB
20/10/2023	A	ISSUED FOR APPROVAL		KK	PB



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NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
TEMPORARY ACCESS TRACK TO SEWER PUMP STATION

JOB CODE
MIR-1004

SHEET NUMBER
C540

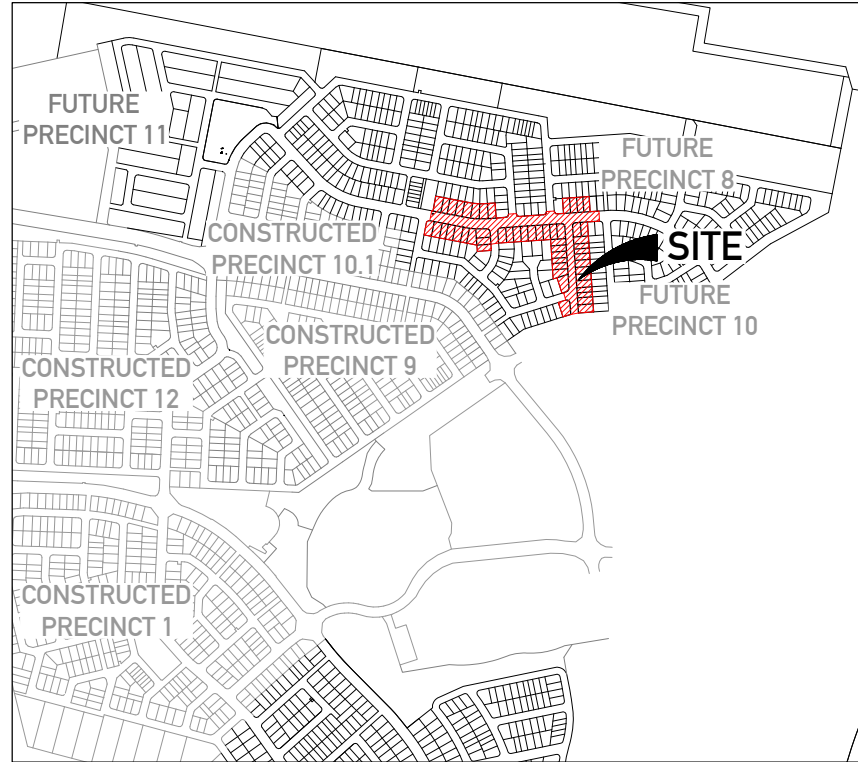
REV
B

EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC QLD PTY LTD

WATER RETICULATION



GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP'S
- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS, WHERE POSSIBLE
- CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128.
- CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
- CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2, PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND LCC STANDARDS.
- INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
- INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.
- 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.
- 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.
- THE POLYETHYLENE SERVICE LINE MUST COMPLY WITH AS/NZ4130 SERIES 1 DN20 PN16.
- TAPPING BANDS MUST BE USED WHEN PROVIDING CONNECTION, UNLESS OTHERWISE APPROVED BY COUNCIL.
- 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.

- 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

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

CONSTRUCTION REQUIREMENTS

- LIVE WATER CONNECTIONS TO BE CARRIED OUT BY LOGAN WATER AS PER THE LIVE CONNECTION REQUEST UNLESS AGREED OTHERWISE WITH LOGAN WATER.
- PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
- UPON COMPLETION OF ALL WORKS, CONTRACTORS SHALL SUPPLY THE SUPERVISING RPEQ DETAILED "AS CONSTRUCTED" INFORMATION OF THE WORK. "AS CONSTRUCTED" INFORMATION SHALL COMPLY WITH CURRENT SEQ CODE OR LOCAL AUTHORITY STANDARDS FOR PLAN AND DIGITAL INFORMATION.
- CONTRACTOR IS TO BE RESPONSIBLE FOR ARRANGING ALL LOGAN WATER CONNECTIONS AND PAYMENTS OF CONNECTION FEES.

TRENCH SPOIL NOTE:

SPOILAGE OF EXCESS MATERIAL TO BE PLACED IN FUTURE FILL AREA AS NOMINATED BY THE SUPERINTENDENT 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

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
C612	WATER RETICULATION LAYOUT PLAN - SHEET 3
C620	WATER LIVE CONNECTION AND TYPICAL DETAILS



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

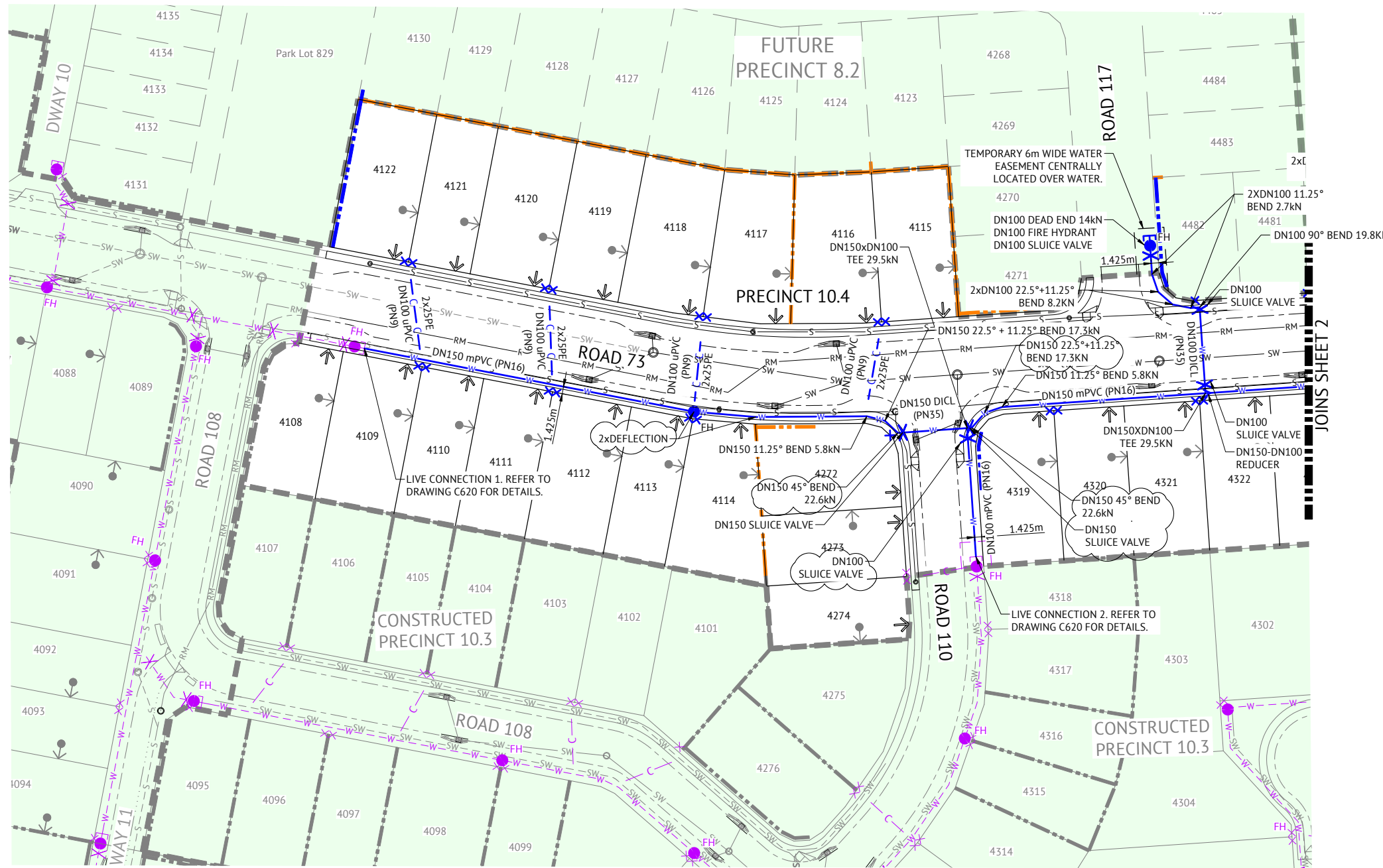
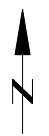
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE
MIR-1004
SHEET NUMBER
C600
REV
B



LEGEND - PROPOSED

- POTABLE WATERMAIN
- 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
- LOT NUMBER
- STORMWATER
- SEWER RISING MAIN
- 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

LAYOUT PLAN
SCALE 1:500

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.

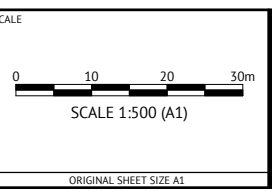
AS CONSTRUCTED DETAILS FOR AMEND.
I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS
SIGNED _____
NAME OF SIGNATORY _____
RPEQ No. or LICENCE _____

FOR WATER RETICULATION NOTES, REFER DWG No. C600

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	ADDED AND AMENDED LEADERS	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB

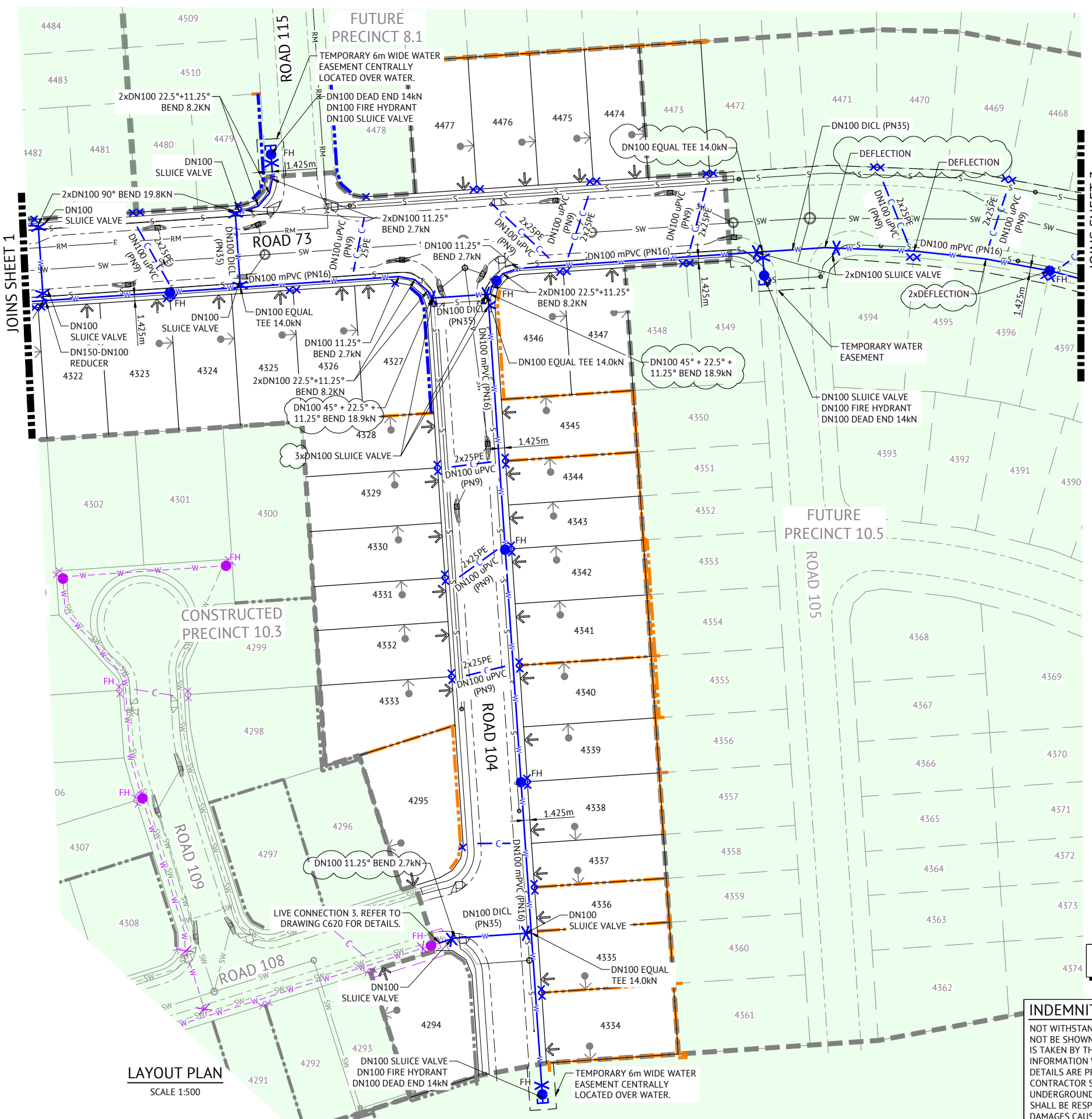
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
WATER RETICULATION LAYOUT PLAN - SHEET 1

JOB CODE MIR-1004	
SHEET NUMBER C610	REV B



LEGEND - PROPOSED

- POTABLE WATERMAIN
- DN25 PE 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
- LOT NUMBER
- STORMWATER
- SEWER RISING MAIN
- 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

INSTALL WATER SERVICES ONLY FOR FUTURE LOTS 4348, 4349, 4394-4399, 4457, 4458, 4461 & 4462-4473. WATER METER BOXES TO BE INSTALLED AS PART OF FUTURE PRECINCT WORKS.

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: _____

LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	ADDED AND AMENDED LEADERS	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB

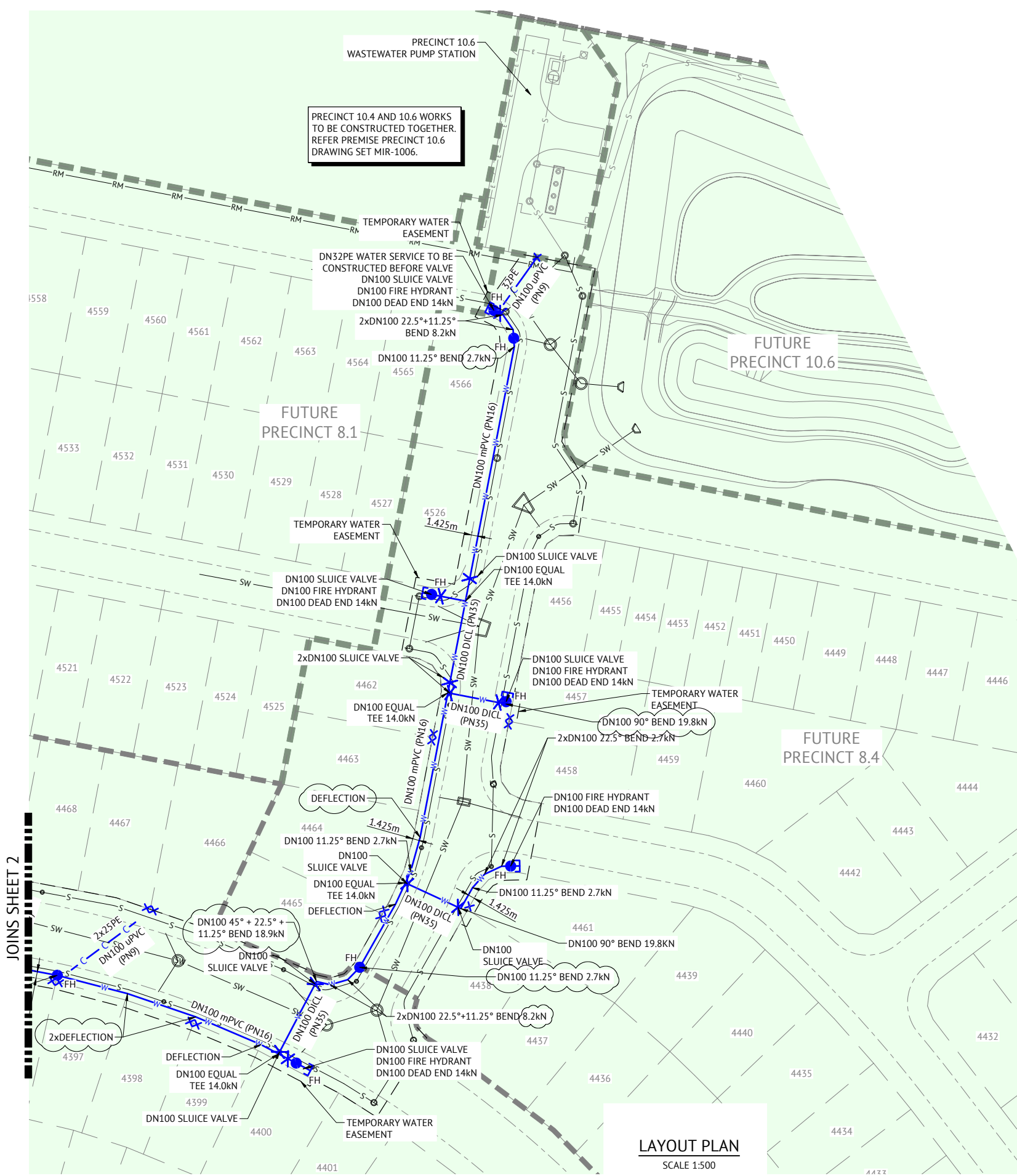
Premise
 BRISBANE OFFICE
 LEVEL 11, 300 ADELAIDE STREET
 BRISBANE, QLD 4000
 PH: (07) 3253 2222
 WEB: www.premise.com.au

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

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

CLIENT: MIRVAC QLD PTY LTD
 PROJECT: EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: WATER RETICULATION LAYOUT PLAN- SHEET 2

JOB CODE: MIR-1004
 SHEET NUMBER: C611
 REV: B



LEGEND - PROPOSED

- POTABLE WATERMAIN
- POTABLE WATER RETICULATION SERVICE WITHIN DN100 uPVC (PN9) CONDUIT
- WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
- SLUIICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION
- TRUNCATIONS 5 DEGREES OR LESS
- LOT NUMBER
- STORMWATER
- SEWER RISING MAIN
- 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
- SLUIICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- WATER METER
- STORMWATER
- GRAVITY SEWER
- PMT EXCLUSION ZONE

FOR WATER RETICULATION NOTES, REFER DWG No. C600

INSTALL WATER SERVICES ONLY FOR FUTURE LOTS 4348, 4349, 4394-4399, 4457, 4458, 4461 & 4462-4473. WATER METER BOXES TO BE INSTALLED AS PART OF FUTURE PRECINCT WORKS.

INDEMNITY - EXISTING SERVICES
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AS CONSTRUCTED DETAILS FOR AMEND.
 I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS
 SIGNED _____
 NAME OF SIGNATORY _____
 RPEQ No. or LICENCE _____

LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
01/03/2024	B	ADDED AND AMENDED LEADERS	KK PB
20/10/2023	A	ISSUED FOR APPROVAL	KK PB
			REC APP

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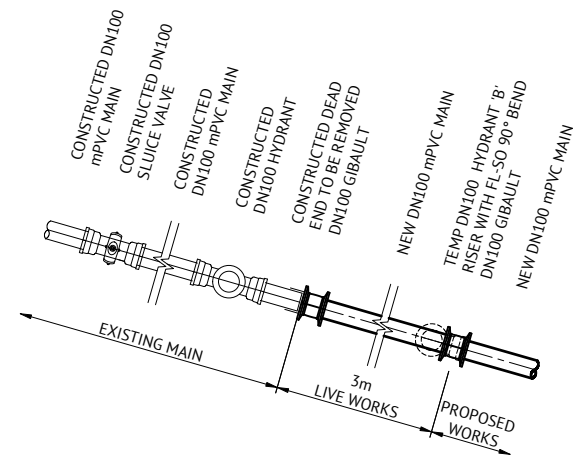
DESIGNED
KLYNT KIWANG
 CHECKED
ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
PATRICK BRADY
 RPEQ 7112

SCALE

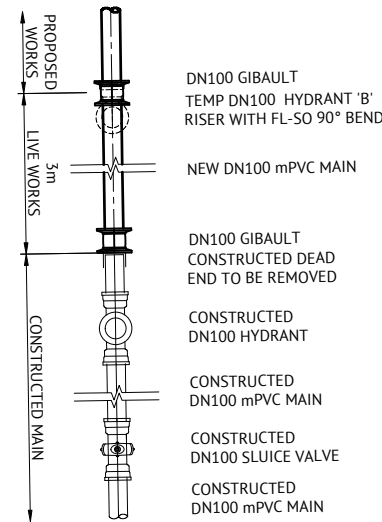
 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
WATER RETICULATION LAYOUT PLAN- SHEET 3

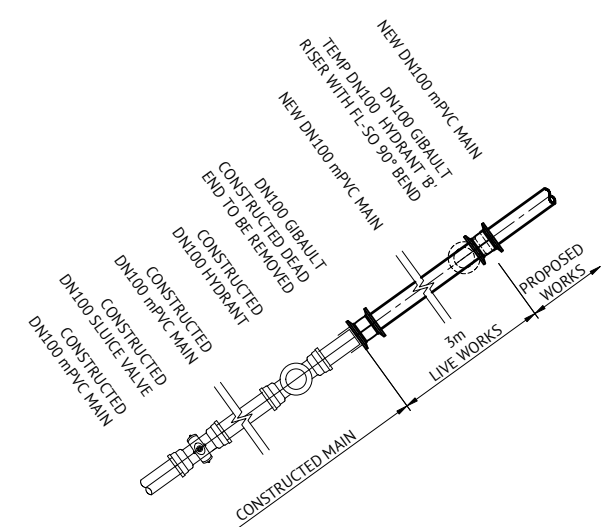
JOB CODE
MIR-1004
 SHEET NUMBER
C612
 REV
B



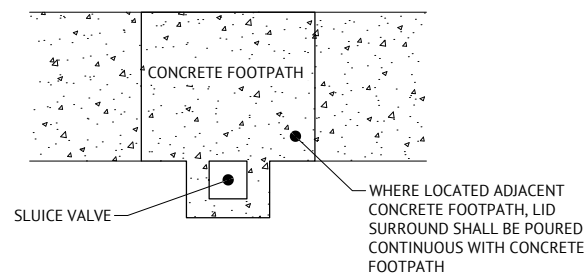
LIVE 1 CONNECTION DETAIL
SCALE 1:25



LIVE 2 CONNECTION DETAIL
SCALE 1:25



LIVE 3 CONNECTION 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
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

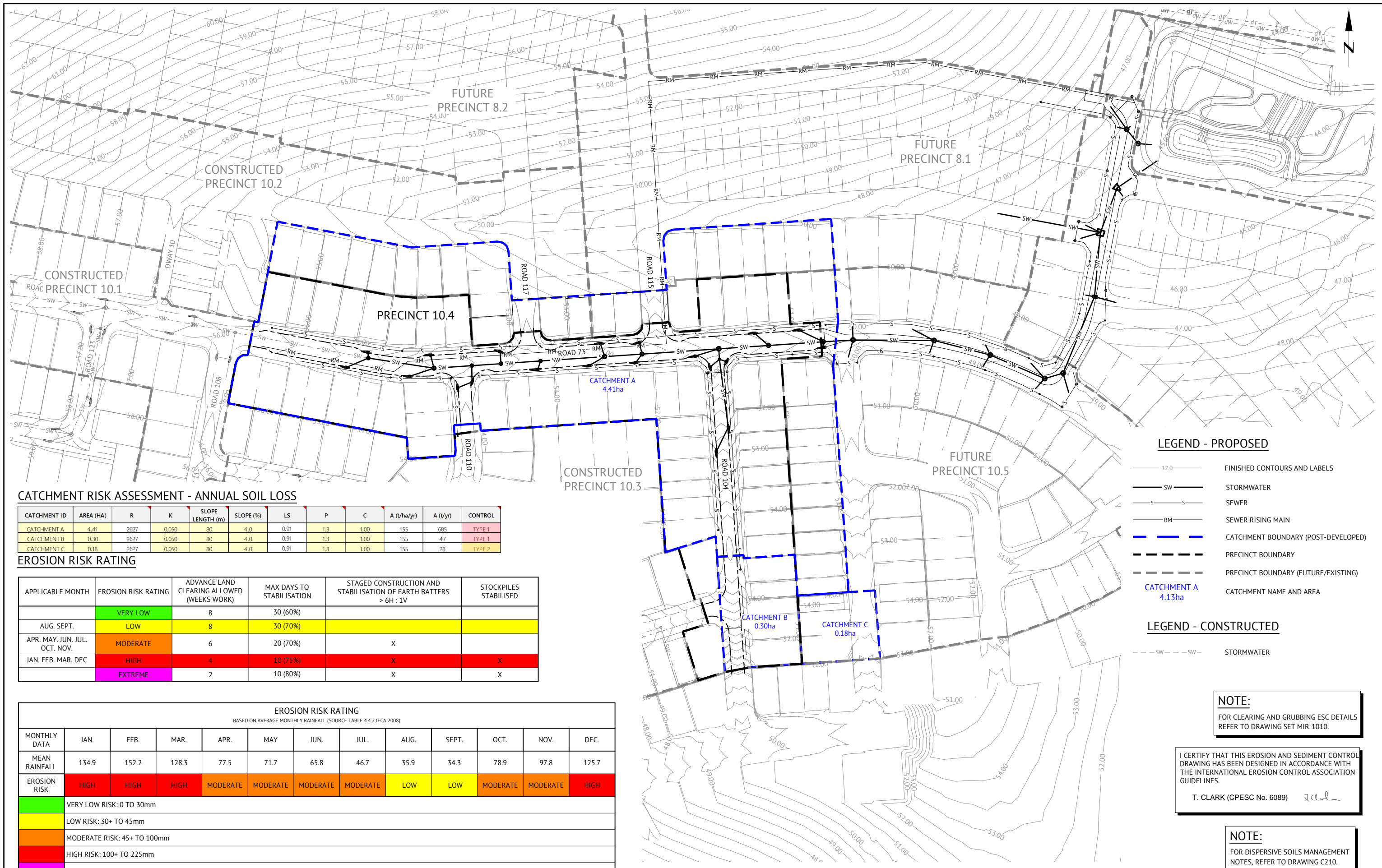
Premise
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BRISBANE, QLD 4000
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DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
WATER LIVE CONNECTION AND TYPICAL DETAILS

JOB CODE
MIR-1004
SHEET NUMBER
C620
REV
B



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	4.41	2627	0.050	80	4.0	0.91	1.3	1.00	155	685	TYPE 1
CATCHMENT B	0.30	2627	0.050	80	4.0	0.91	1.3	1.00	155	47	TYPE 1
CATCHMENT C	0.18	2627	0.050	80	4.0	0.91	1.3	1.00	155	28	TYPE 2

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

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											

LEGEND - PROPOSED

- FINISHED CONTOURS AND LABELS
- STORMWATER
- SEWER
- SEWER RISING MAIN
- CATCHMENT BOUNDARY (POST-DEVELOPED)
- PRECINCT BOUNDARY
- PRECINCT BOUNDARY (FUTURE/EXISTING)
- CATCHMENT NAME AND AREA

LEGEND - CONSTRUCTED

- STORMWATER

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 No. 6089) *T. Clark*

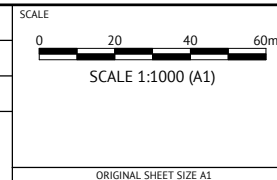
NOTE:
FOR DISPERSIVE SOILS MANAGEMENT NOTES, REFER TO DRAWING C210.

FOR CONSTRUCTION



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



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
OVERALL EROSION & SEDIMENT CONTROL KEY PLAN

JOB CODE
MIR-1004
SHEET NUMBER
C700
REV
B

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	NVT	PB
			REC	APP



CONSTRUCTED PRECINCT 9 SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.

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

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

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

- 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
 - FINISHED CONTOURS AND LABELS
 - STORMWATER
 - SEWER
 - SEWER RISING MAIN
 - PRECINCT BOUNDARY
 - PRECINCT BOUNDARY (FUTURE/EXISTING)
- LEGEND - CONSTRUCTED**
- DIVERSION DRAIN
 - STORMWATER

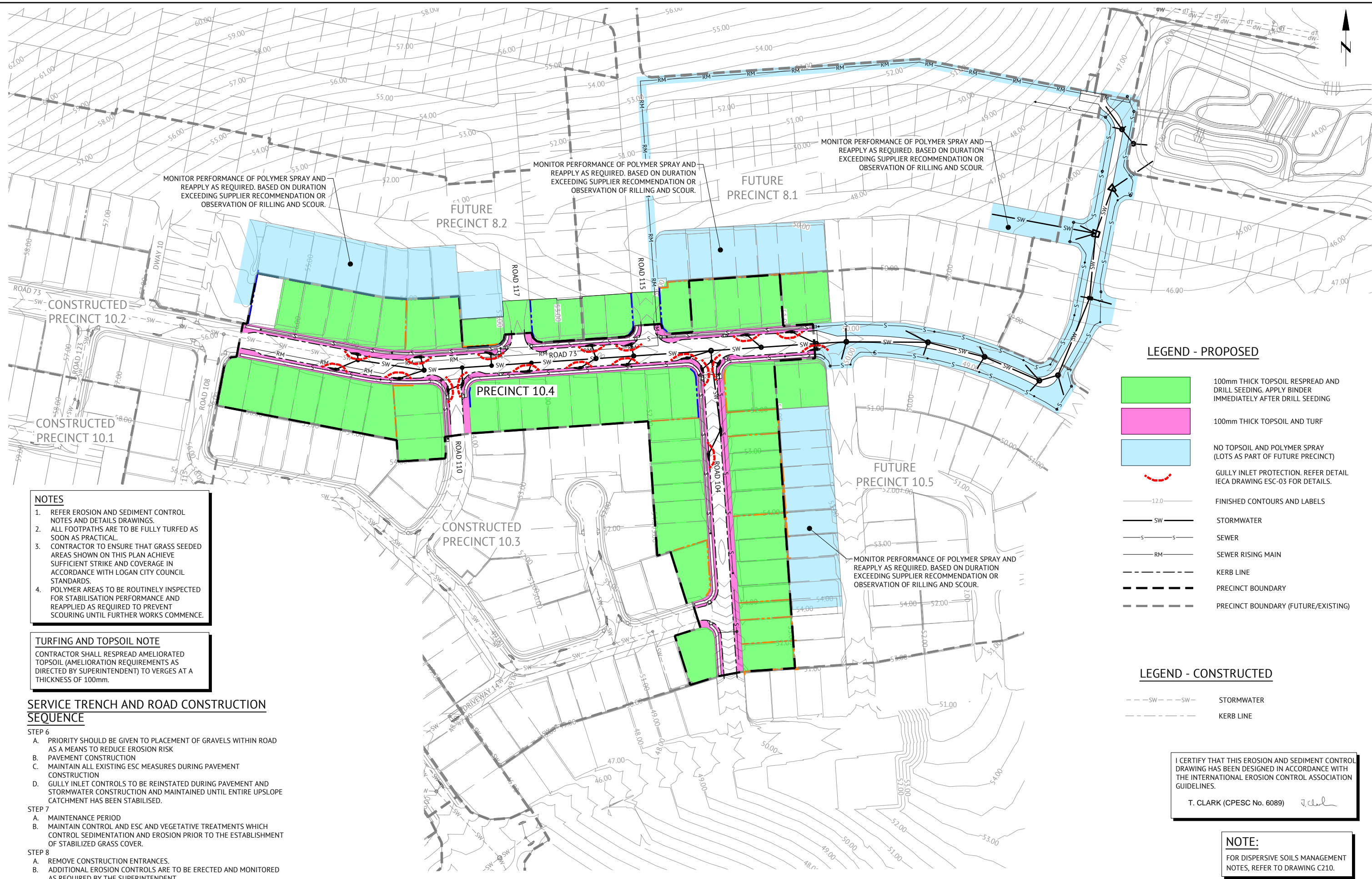
INSTALLATION SEQUENCE EARTHWORKS

- 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.

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
T. CLARK (CPESC No. 6089)

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

<p>FOR CONSTRUCTION</p>		<p>BRISBANE OFFICE LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	<p>DESIGNED MARK DAVIS</p> <p>CHECKED ANDREW LANGDON</p> <p>PROJECT MANAGER NICK SOMERVILLE</p> <p>PROJECT DIRECTOR PATRICK BRADY</p>	<p>SCALE 0 20 40 60m SCALE 1:1000 (A1) ORIGINAL SHEET SIZE A1</p>	<p>CLIENT MIRVAC QLD PTY LTD</p> <p>PROJECT EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT</p> <p>LOCATION TEVIOT ROAD, GREENBANK</p> <p>SHEET TITLE EROSION AND SEDIMENT CONTROL - BULK EARTHWORKS PHASE</p>	<p>JOB CODE MIR-1004</p> <p>SHEET NUMBER C701</p> <p>REV B</p>										
<table border="1"> <tr> <th>DATE</th> <th>REV</th> <th>DESCRIPTION</th> <th>REC</th> <th>APP</th> </tr> <tr> <td>01/03/2024</td> <td>B</td> <td>ISSUED FOR CONSTRUCTION</td> <td>KK</td> <td>PB</td> </tr> <tr> <td>20/10/2023</td> <td>A</td> <td>ISSUED FOR APPROVAL</td> <td>NVT</td> <td>PB</td> </tr> </table>	DATE						REV	DESCRIPTION	REC	APP	01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB	20/10/2023
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- NOTES**
1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
 2. ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
 3. CONTRACTOR TO ENSURE THAT GRASS SEEDED AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
 4. POLYMER AREAS TO BE ROUTINELY INSPECTED FOR STABILISATION PERFORMANCE AND REAPPLIED AS REQUIRED TO PREVENT SCOURING UNTIL FURTHER WORKS COMMENCE.

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

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 ERCTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

- 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
 - S SEWER
 - RM SEWER RISING MAIN
 - KERB LINE
 - PRECINCT BOUNDARY
 - PRECINCT BOUNDARY (FUTURE/EXISTING)
- LEGEND - CONSTRUCTED**
- SW STORMWATER
 - KERB LINE

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
 T. CLARK (CPESC No. 6089)

NOTE:
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 RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

JOB CODE
MIR-1004
 SHEET NUMBER
C702
 REV
B

ROLES AND RESPONSIBILITIES

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 EROSION FLOW VELOCITIES;
 - MINIMISE SOIL EROSION FROM WATER AND WIND;
 - MINIMISE ADVERSE EFFECTS OF SEDIMENT RUN-OFF;
 - MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGES FROM THE SITE (E.G. THE EFFECTS OF SEDIMENTATION ON THE ENVIRONMENTAL VALUES OF RECEIVING WATERS); AND
 - ENSURE THAT THE VALUE AND USE OF RESIDENTIAL PROPERTIES ADJACENT TO THE DEVELOPMENT (SUCH AS DRAINAGE AND ROADS) ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.
8. THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
9. 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.
10. 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.

ROLE	RESPONSIBILITY
PROJECT MANAGER	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

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T. CLARK (CPESC No. 6089)

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SCALE	ORIGINAL SHEET SIZE A1
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CLIENT	MIRVAC QLD PTY LTD
PROJECT	EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

JOB CODE	MIR-1004
SHEET NUMBER	C710
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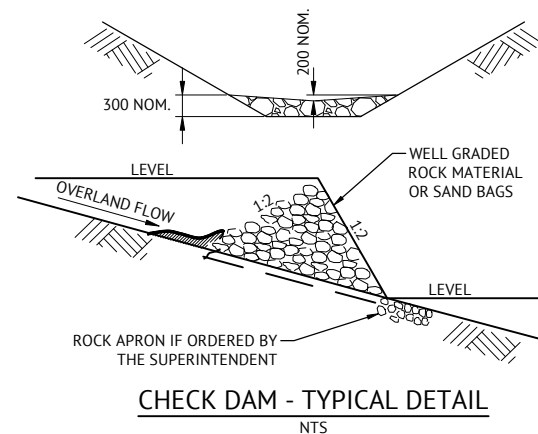
DRAIN CALCULATION TABLE

DRAIN ID	CATCH AREA (HA)	ARI	CARI	TIME OF CONC (MINS)	IARI	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	1.69	2	0.6	10	105	0.30	0.005	0.6	2	2	Vital HR - L/m2	0.02	1.5	1.05	0.25	0.40	2.22
DWD 02	3.359	2	0.6	13	95.2	0.53	0.05	1.5	2	2	Vital HR - 2L/m2	0.02	2.5	2.48	0.12	0.27	2.59
DWD 03	4.512	2	0.6	16	86.7	0.65	0.04	1.5	2	2	Vital HR - 2L/m2	0.02	2.5	2.47	0.15	0.30	2.69
DWD 04	3.519	2	0.75	15	89.4	0.66	0.015	1.5	2	2	Vital HR - 2L/m2	0.02	2.5	1.77	0.20	0.35	2.88
DWD 05	19.969	2	0.63	35	55.7	1.95	0.025	1.5	2	2	Turf	0.04	2	1.80	0.45	0.60	3.90
DWD 06	4.063	2	0.6	10	105	0.71	0.025	0.6	2	2	Vital HR - 2L/m2	0.02	2.5	2.40	0.26	0.41	2.25
DWD 07	28.544	2	0.62	35	55.7	2.74	0.012	2	2	2	Turf	0.04	2	1.60	0.55	0.70	4.80

DRAIN SIZING SUMMARY TABLE

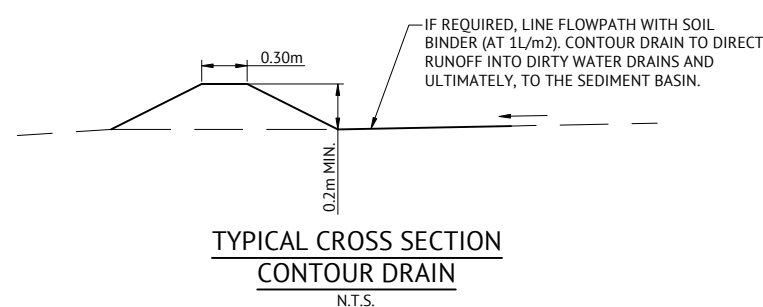
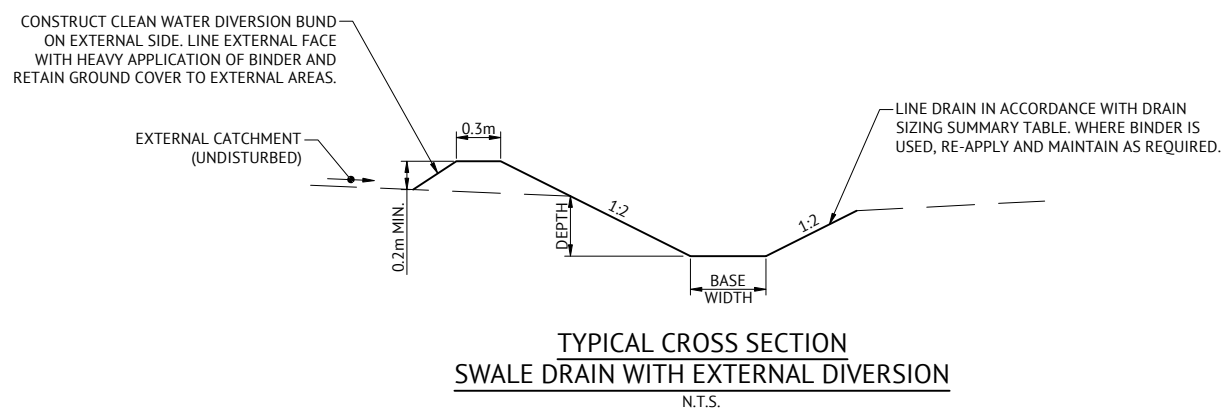
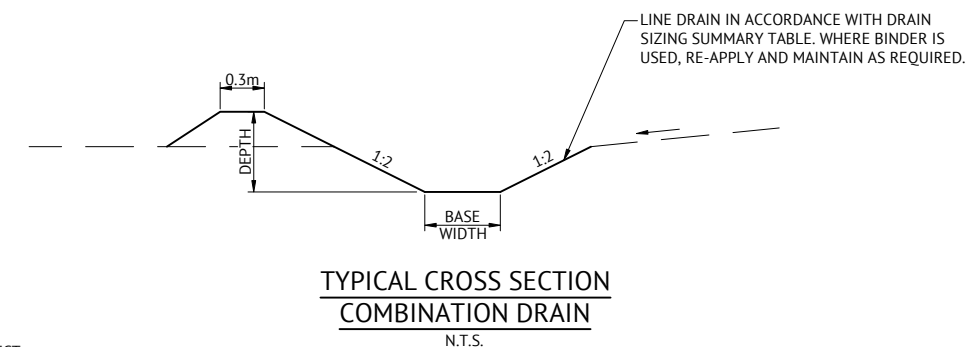
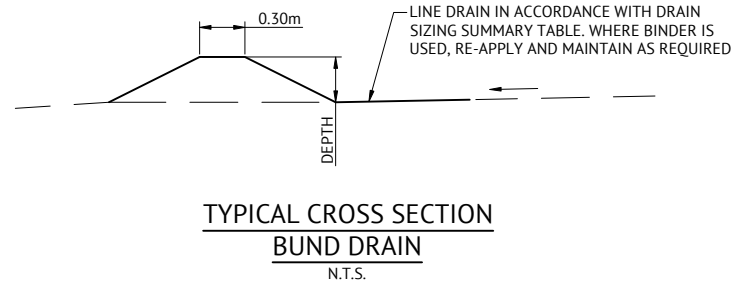
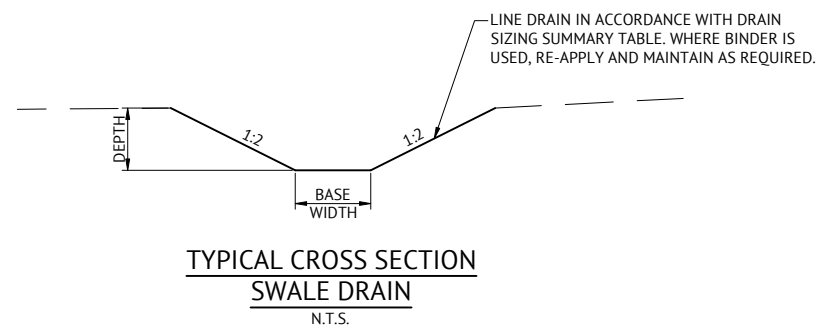
DRAIN ID	DEPTH (m)	BASE WIDTH (m)	BATTER SLOPE (1 IN ...)	TEMPORARY DRAIN LINING
DWD 01	0.40	0.60	2.0	Vital HR - L/m2
DWD 02	0.40	1.50	2.0	Vital HR - 2L/m2
DWD 03	0.40	1.50	2.0	Vital HR - 2L/m2
DWD 04	0.40	1.50	2.0	Vital HR - 2L/m2
DWD 05	0.60	1.50	2.0	Turf
DWD 06	0.40	0.60	2.0	Vital HR - 2L/m2
DWD 07	0.70	2.00	2.0	Turf

- NOTES:**
- 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.
 - TURF LINING ALTERNATIVE REPLACEMENTS INCLUDE GEOSPRAY, BLACK PLASTIC OR ROCK (D50-100mm w. UNDERLAY).



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



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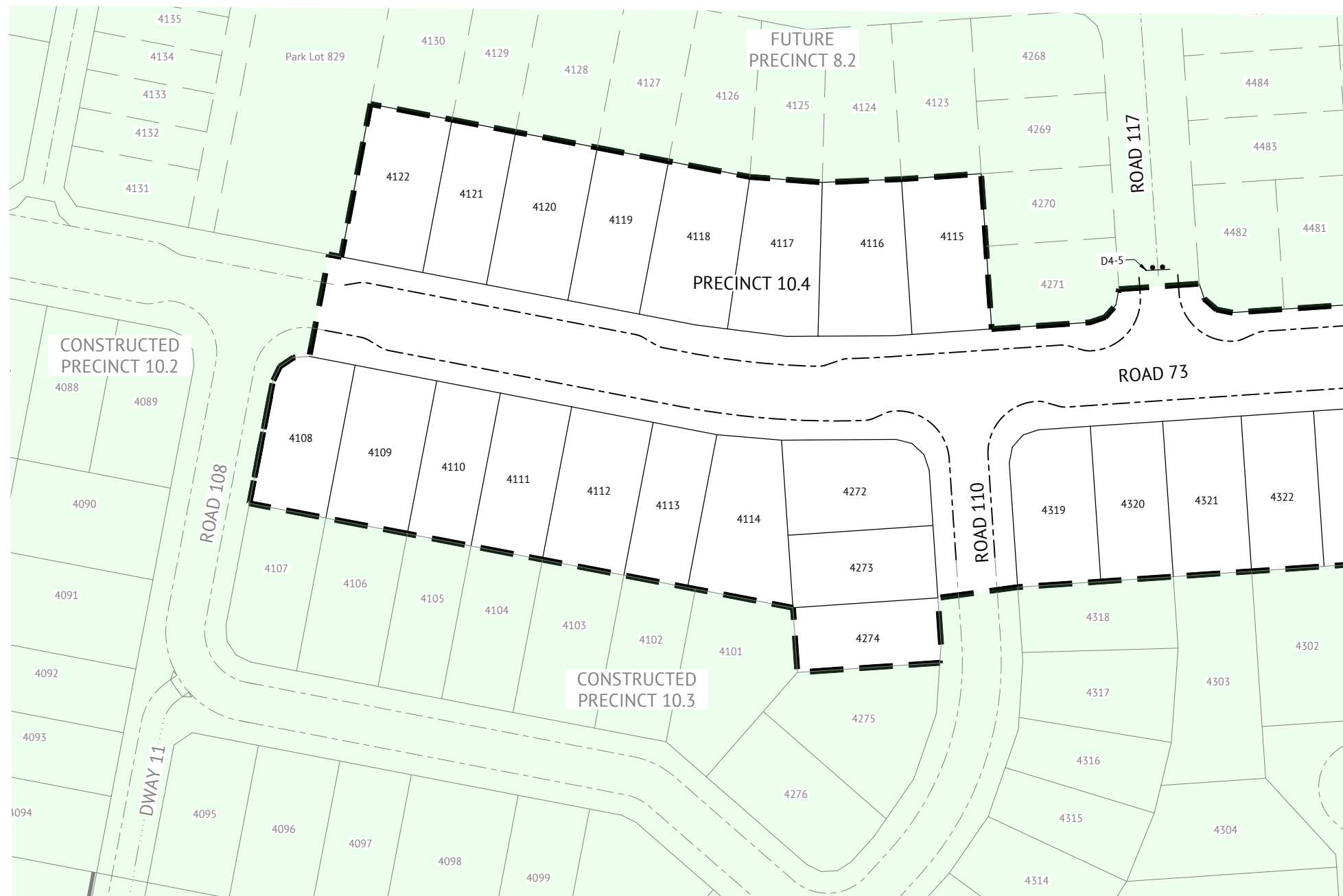
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 PROJECT MANAGER: NICK SOMERVILLE
 PROJECT DIRECTOR: PATRICK BRADY
 RPEQ 7112

SCALE: ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC QLD PTY LTD
 PROJECT: EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
 LOCATION: TEVIOT ROAD, GREENBANK
 SHEET TITLE: EROSION AND SEDIMENT CONTROL DRAIN DETAILS

JOB CODE: MIR-1004
 SHEET NUMBER: C720
 REV: B



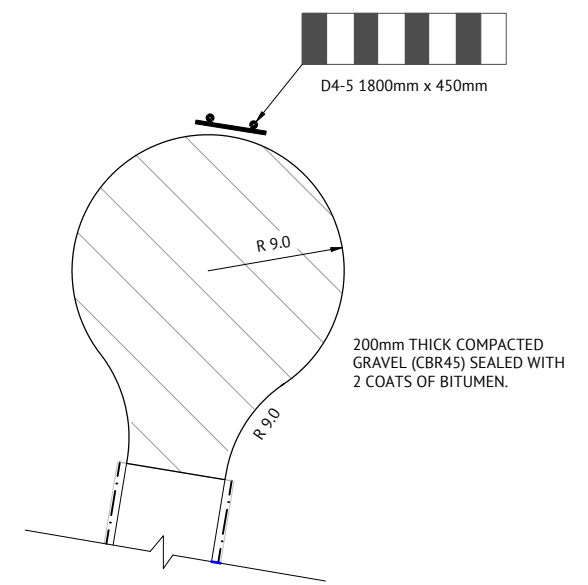
LEGEND

— 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.



LAYOUT PLAN
SCALE 1:500

TYPICAL TEMPORARY TURN AROUND DETAIL
SCALE 1:250

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB

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
PKB
PATRICK BRADY RPEQ 7112

SCALE

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

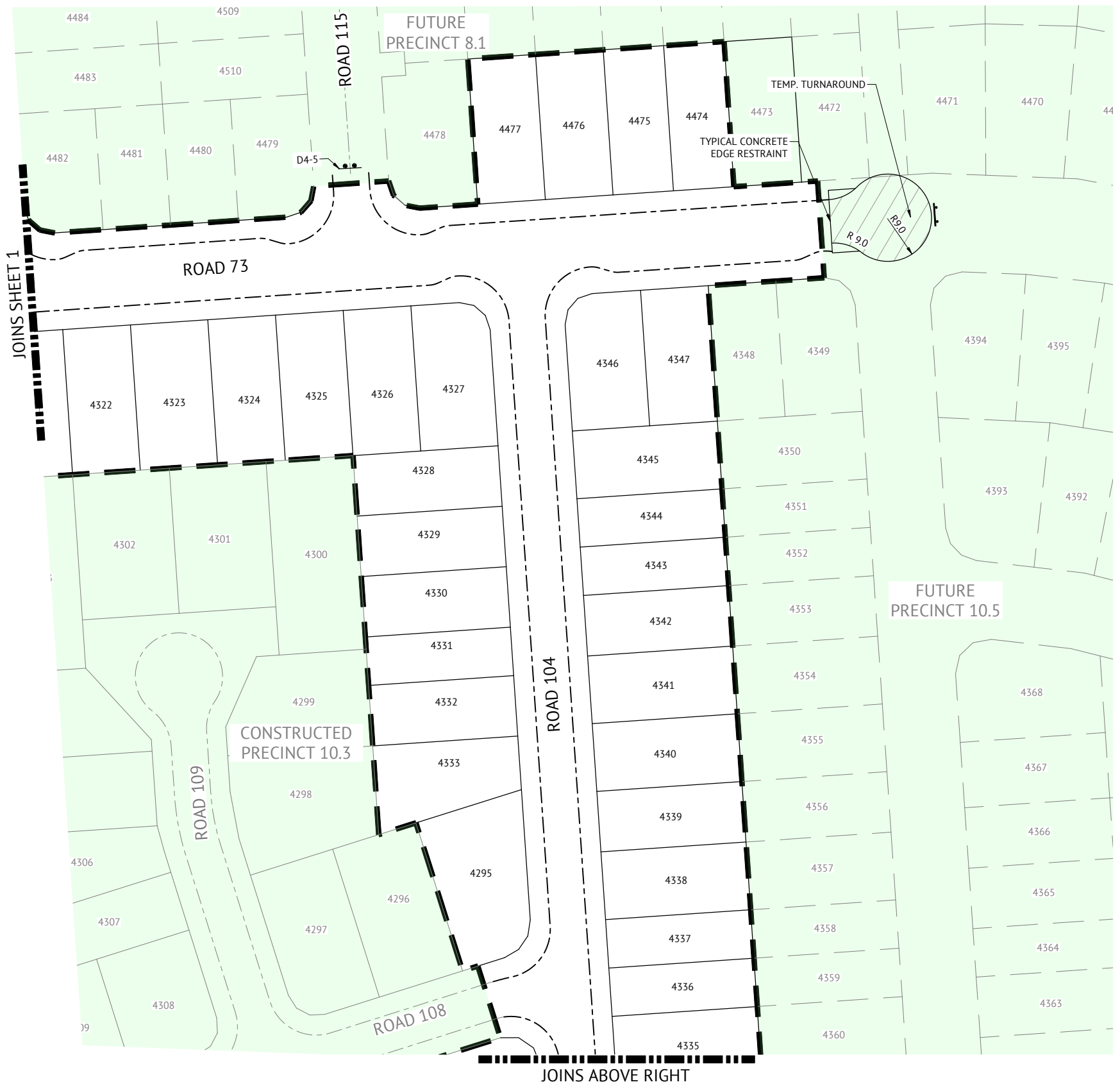
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 1

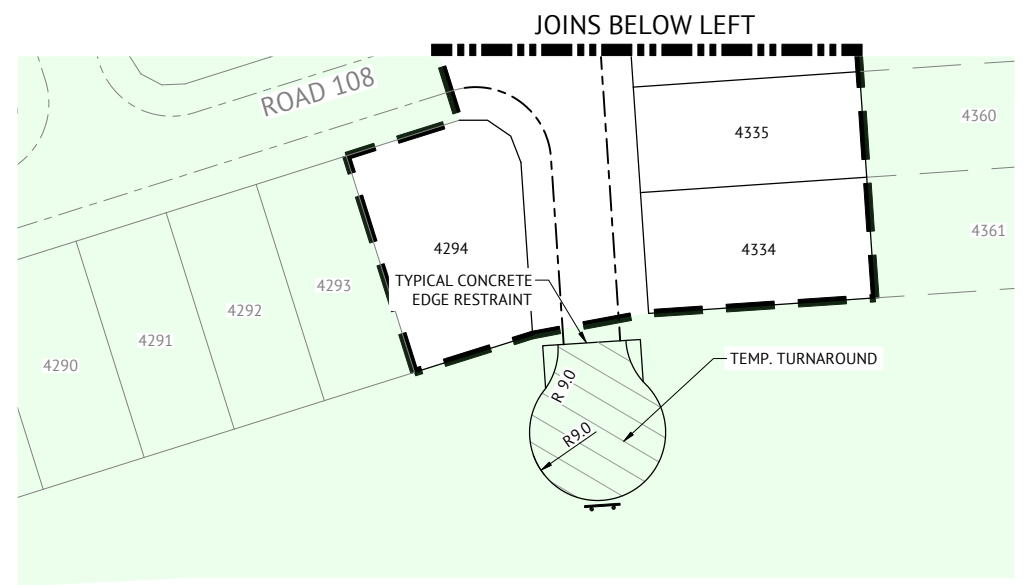
JOB CODE
MIR-1004

SHEET NUMBER	REV
C900	B



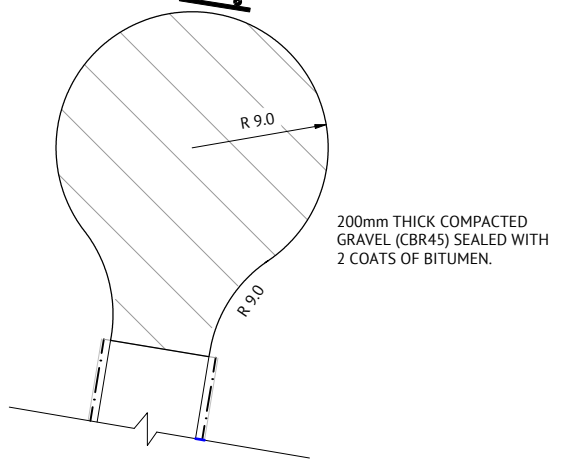
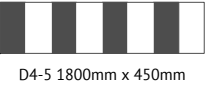
LEGEND

- 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

LAYOUT PLAN
SCALE 1:500

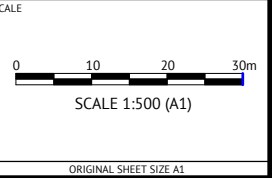
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
01/03/2024	B	ISSUED FOR CONSTRUCTION	KK	PB
20/10/2023	A	ISSUED FOR APPROVAL	KK	PB



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PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 10.4 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
TEMPORARY WORKS - ROADWORKS AND DRAINAGE LAYOUT PLAN - SHEET 2

JOB CODE
MIR-1004
SHEET NUMBER
C901
REV
B