

EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC QLD PTY LTD

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C001	COVER SHEET
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN
C100	ROADWORKS AND DRAINAGE LAYOUT PLAN
C200	BULK EARTHWORKS LAYOUT PLAN
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2
C220	EARTHWORKS SUBGRADE ROCK PREPARATION LAYOUT PLAN
C300	ROADWORKS NOTES AND DETAILS
C310	TUSCAN CIRCUIT LONG SECTION
C311	TUSCAN CIRCUIT CROSS SECTIONS - SHEET 1
C312	TUSCAN CIRCUIT CROSS SECTIONS - SHEET 2
C313	TUSCAN CIRCUIT CROSS SECTIONS - SHEET 3
C314	CLAY COURT LONG SECTION AND CROSS SECTIONS
C320	INTERSECTION DETAILS LAYOUT
C330	PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN
C400	STORMWATER CATCHMENT LAYOUT PLAN
C410	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1
C411	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C430	STORMWATER DRAINAGE STRUCTURE DETAILS
C440	STORMWATER CALCULATIONS 39% AEP STORM
C441	STORMWATER CALCULATIONS 1% AEP STORM
C450	STORMWATER STRUCTURE NOTES
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN
C520	SEWERAGE LONG SECTIONS
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN
C620	WATER LIVE CONNECTION DETAILS
C700	OVERALL EROSION & SEDIMENT CONTROL KEY PLAN
C701	EROSION AND SEDIMENT CONTROL - EARTHWORKS PHASE
C702	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE
C708	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 4
C709	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 4
C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 3 OF 4
C711	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 4 OF 4

GENERAL NOTES

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

NOISE

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

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

PRE-CONSTRUCTION & APPROVALS

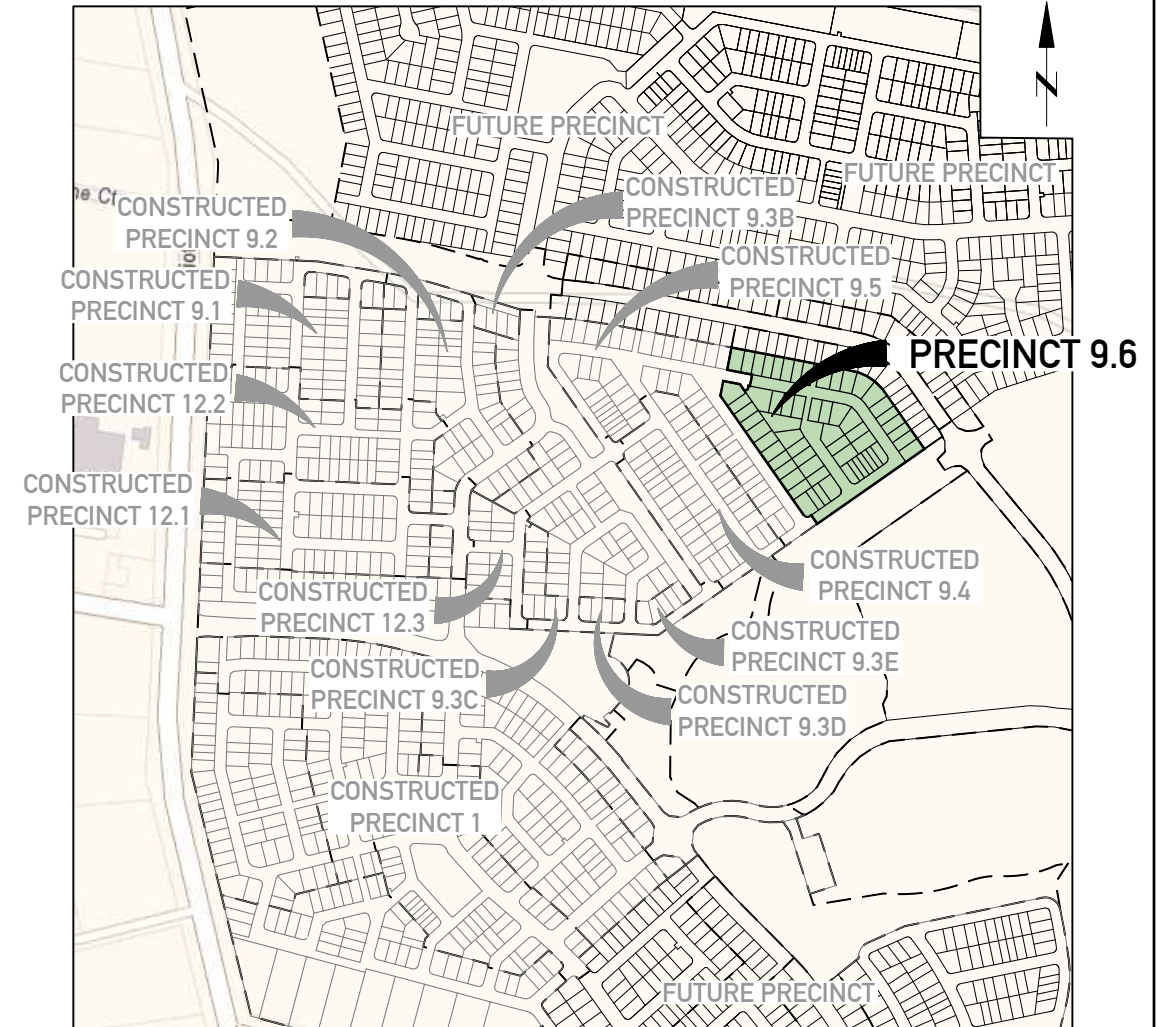
- NO LOCATING/POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE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

WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

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



LOCALITY PLAN
Scale 1:5000



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	LI	PB
24/04/2023	B	AMENDED SHEET LIST TABLE		
31/03/2022	A	ISSUED FOR APPROVAL		
			KK	PB
			REC	APP



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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	JOB CODE	MIR-0906
PROJECT	EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C001
LOCATION	TEVIOT ROAD, GREENBANK	REV	B
SHEET TITLE	COVER SHEET		



LEGEND

- PROPOSED ROAD CENTRELINE
- STAGE BOUNDARY

INDEMNITY - EXISTING SERVICES

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

LEVEL DATUM: AHD (DERIVED)

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

ORIGIN OF COORDINATES: STATION C1 (PM 73506)

PROJECT COORDINATES - STN C1, 8792.646 E, 32093.723 N

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

SITE AREA

35,460m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

FOR CONSTRUCTION

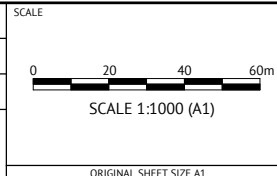
DATE	REV	DESCRIPTION	KK	PB
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB
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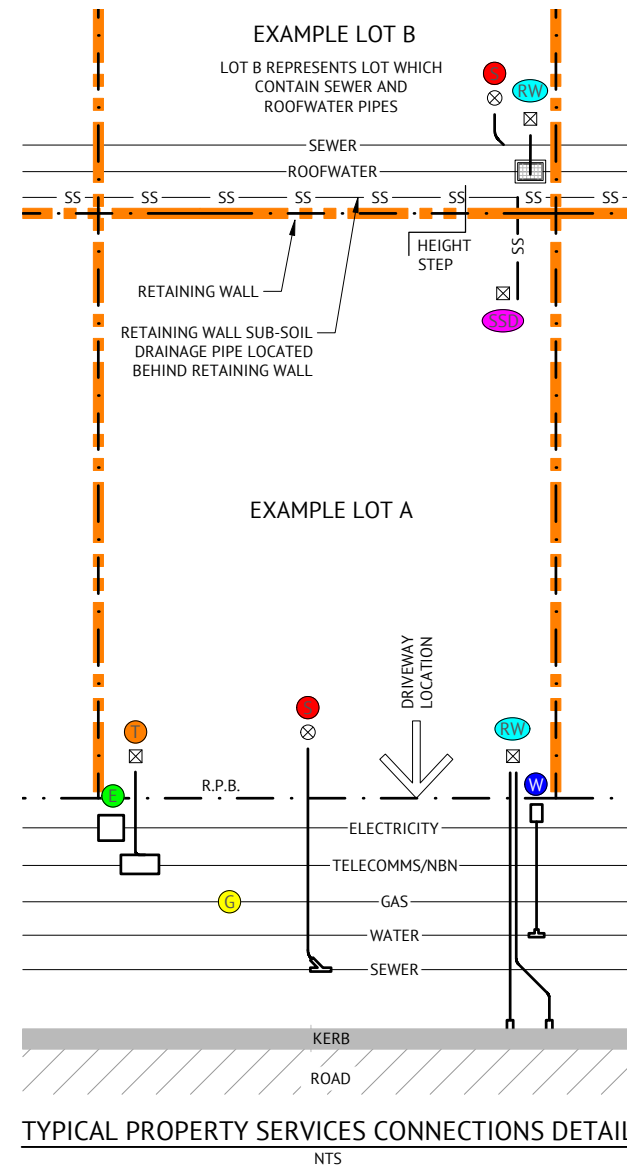
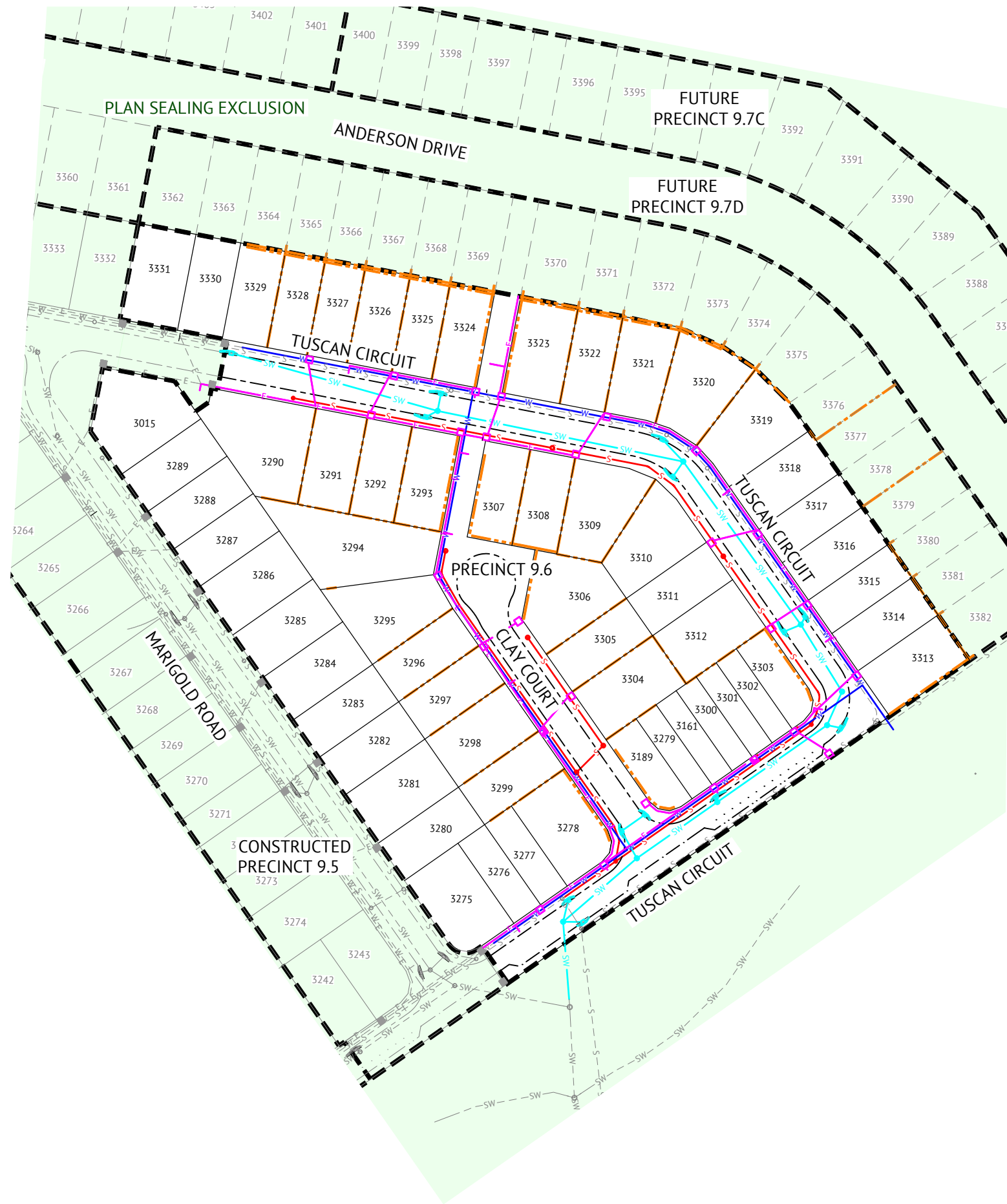
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 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SURVEY SETOUT PLAN

JOB CODE		MIR-0906
SHEET NUMBER	REV	
C002	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".
 - S** SEWER - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 400 ORANGE PVC CONDUIT SECURELY TAPED TO H.W. STAKE AT SURFACE (BURIED TO CAPPED PIPE). CONDUIT LABELLED "SEWER."
 - RW** ROOFWATER - CONNECTION LOCATION CAN BE EITHER FRONT OF LOT VIA KERB ADAPTOR OUTLET TO ROAD, OR REAR OF LOT INTO ROOFWATER DRAINAGE PIPE VIA PIT. CAPPED PVC Ø100 PIPES (BURIED MAX 1.5m) MARKED WITH 900x50x25 HW STAKE LABELLED "ROOFWATER".
 - SSD** RETAINING WALL SUB-SOIL DRAINAGE - OUTLET POINT TO LOT FOR RETAINING WALL SUB-SOIL DRAINAGE TO BE CONNECTED TO YARD DRAINAGE BY BUILDER. Ø100 NON-SLOTTED AGG PIPE CAPPED AND TERMINATED 200m ABOVE SURFACE. PVC DUCT TAPED TO 900x50x25 HW STAKE LABELLED "RETAINING WALL SUBSOIL OUTLET".
 - T** TELECOMMUNICATIONS/NBN - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".
 - E** ELECTRICITY - ELECTRICITY PILLAR EXISTS IN ROAD VERGE. BUILDER TO MAKE APPLICATION WITH ENERGY PROVIDER FOR SERVICE INSTALLATION TO LOT. WHERE ELECTRICITY PILLAR IS LOCATED BEHIND RETAINING WALL, CONDUIT WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "ELECTRICITY".
 - G** GAS - GAS MAIN EXISTS IN ROAD VERGE. BUILDER/HOME OWNER TO MAKE APPLICATION TO GAS PROVIDER FOR SERVICE INSTALLATION TO LOT.
- RETAINING WALL
 SERVICE TERMINATION POINT MARKER. 900x50x25 HW STAKE, OR 400 ORANGE PVC CONDUIT STAKE

TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL
NTS

LEGEND - PROPOSED

- SW— STORMWATER
- S— GRAVITY SEWER
- W— WATER
- E— ELECTRICAL

LEGEND - CONSTRUCTED

- SW--- STORMWATER
- S--- GRAVITY SEWER
- W--- WATER
- E--- ELECTRICAL

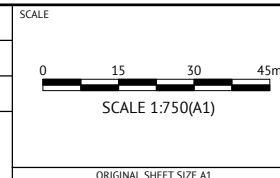
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ADDED ELECTRICAL LINWORK	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

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 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
OVERALL SERVICES LAYOUT

JOB CODE
MIR-0906
 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.

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31/03/2022	A	ISSUED FOR APPROVAL	KK	PB	

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PROJECT EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT	LOCATION TEVIOT ROAD, GREENBANK	SHEET NUMBER C004
SHEET TITLE SAFETY IN DESIGN		REV B

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.

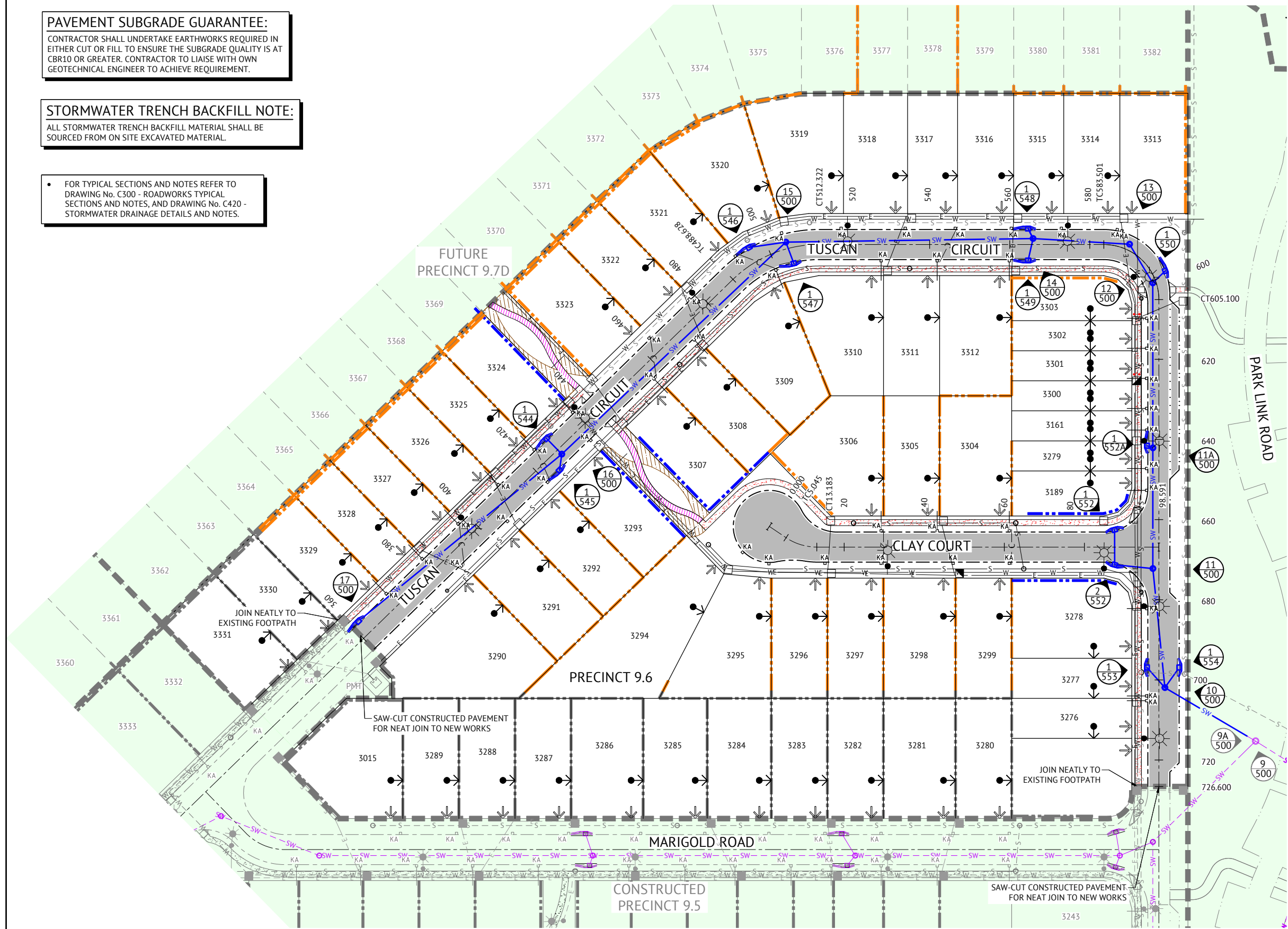
• FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING No. C420 - STORMWATER DRAINAGE DETAILS AND NOTES.

LEGEND - PROPOSED

- PAVEMENT
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'ER1' EDGE RESTRAINT. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- 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 CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED ELECTRICAL
- PROPOSED WATER CONDUIT
- PROPOSED LANDSCAPING WITHIN VERGE. CONCRETE EDGE RESTRAINT BY LANDSCAPING CONTRACTOR. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.
- 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.
- STORMWATER
- SEWER
- WATER
- ELECTRICAL
- TELSTRA
- GAS
- RETAINING WALL
- STORMWATER STRUCTURE No.
- PMT EXCLUSION SITE



LAYOUT PLAN
 SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ADDED ELECTRICAL LINWORK	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

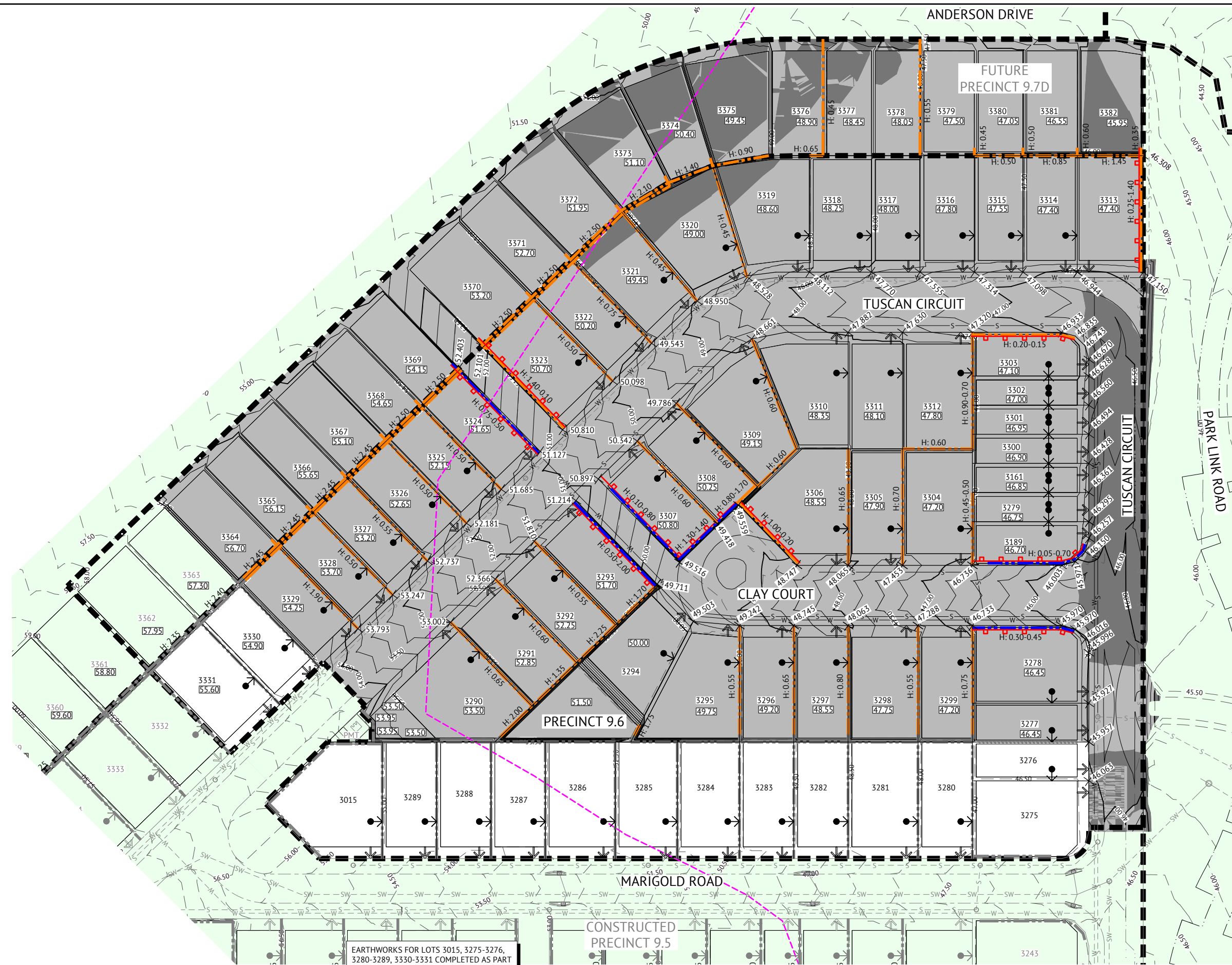
Premise
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DESIGNED
 KLYNT KIWANG
 CHECKED
 ANDREW LANGDON
 PROJECT MANAGER
 NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
ROADWORKS AND DRAINAGE LAYOUT PLAN

JOB CODE
MIR-0906
 SHEET NUMBER
C100
 REV
B



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- FINISHED MAJOR CONTOURS (0.50m)
- 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 ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25 SPOT LEVEL
- ZERO LOT LINE
- ↔ DRIVEWAY LOCATION
- STAGE BOUNDARY

LEGEND - EXISTING

- EXISTING RETAINING WALL
- EXISTING CONTOURS (0.50m)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- VEGETATION CLEARING EXTENT
- PMT PAD MOUNTED TRANSFORMER

- 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 3015, 3275-3276, 3280-3289, 3330-3331 COMPLETED AS PART OF PRECINCT 9.5 WORKS

LAYOUT PLAN
SCALE 1:500

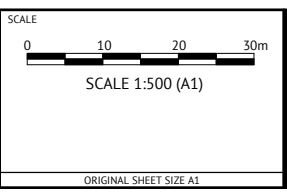
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP



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KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
(Signature)
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS LAYOUT PLAN

JOB CODE
MIR-0906

SHEET NUMBER
C200

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

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

TOPSOIL AMELIORATION

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

A-GRADE QUALITY TOPSOIL AMELIORATION:

- SCREEN STRIPPED TOPSOIL
- ON-SITE COMPOST INCORPORATION (0.15kg/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
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS



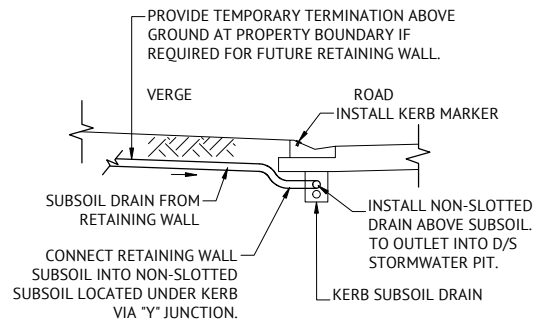
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RPEQ 7112

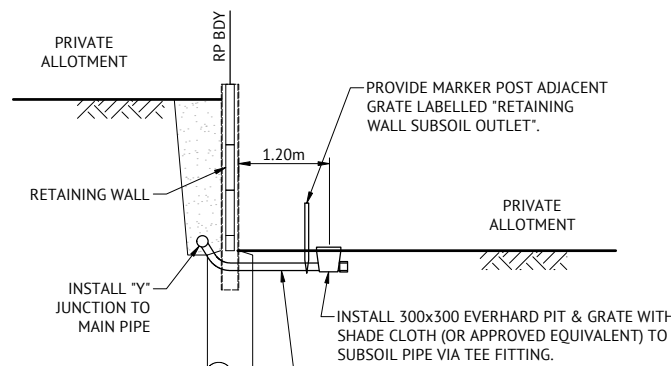
ORIGINAL SHEET SIZE A1

CLIENT	MIRVAC QLD PTY LTD	JOB CODE	MIR-0906
PROJECT	EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT	SHEET NUMBER	C210
LOCATION	TEVIOT ROAD, GREENBANK	REV	B
SHEET TITLE	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1		



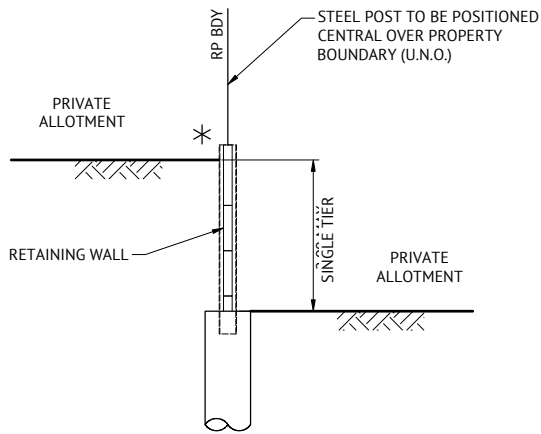
SHALL BE INSTALLED FOR ALL RETAINING WALLS LOCATED ON INTERALLOTMENT BOUNDARIES.

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

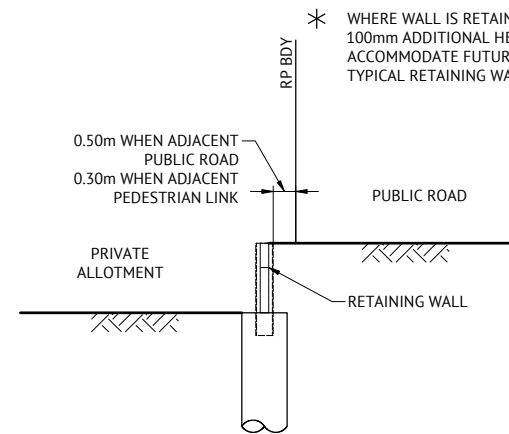


SHALL BE INSTALLED IN REAR CORNER OF ALL ALLOTMENTS LOCATED BELOW A RETAINING WALL.

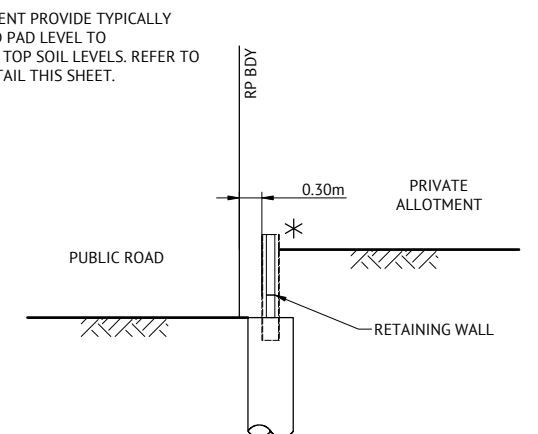
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS
N.T.S.



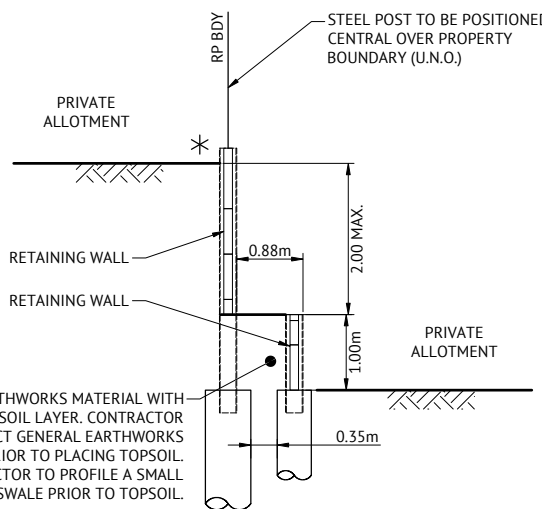
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
0.4m-2m MAX HIGH
N.T.S.



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

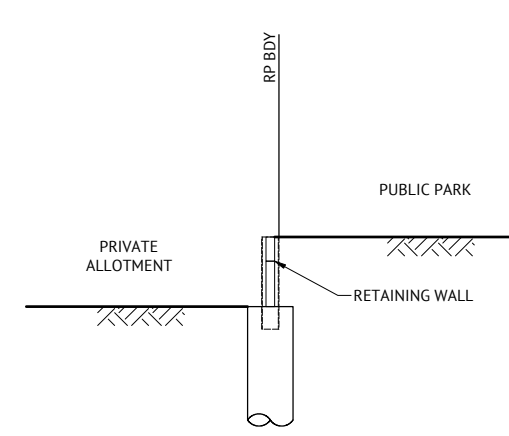


TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.

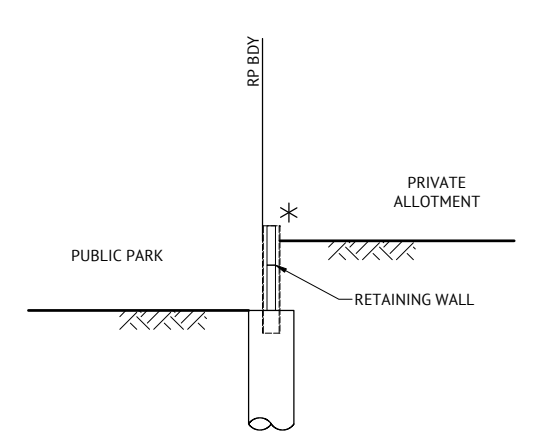


GENERAL EARTHWORKS MATERIAL WITH A 100mm TOPSOIL LAYER. CONTRACTOR TO COMPACT GENERAL EARTHWORKS MATERIAL PRIOR TO PLACING TOPSOIL. CONTRACTOR TO PROFILE A SMALL DRAINAGE SWALE PRIOR TO TOPSOIL.

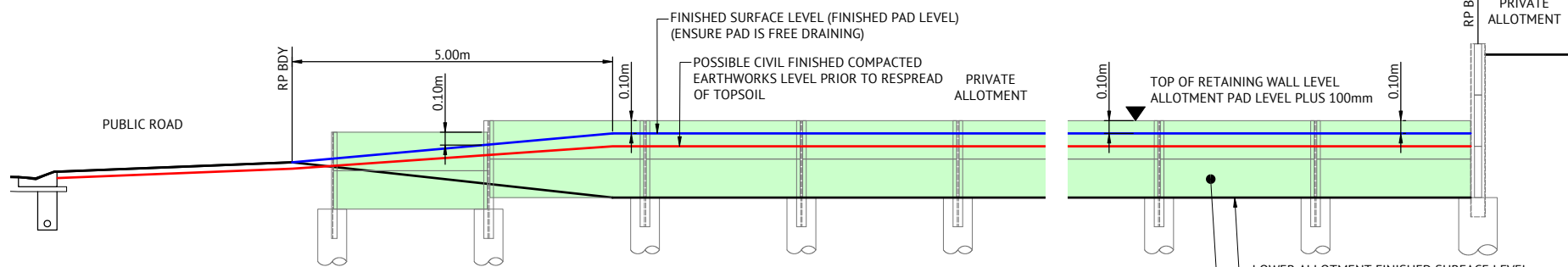
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
2m-3m MAX HIGH
N.T.S.



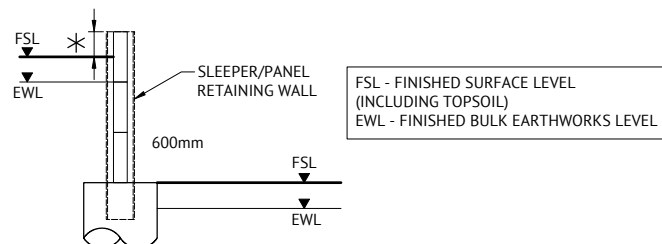
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER
N.T.S.



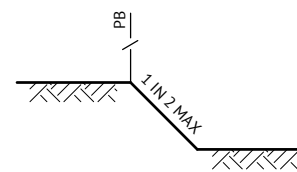
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



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



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

RETAINING WALL 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 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.

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

FENCE BRACKETS

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

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	KK PB

Premise

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

DESIGNED
KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

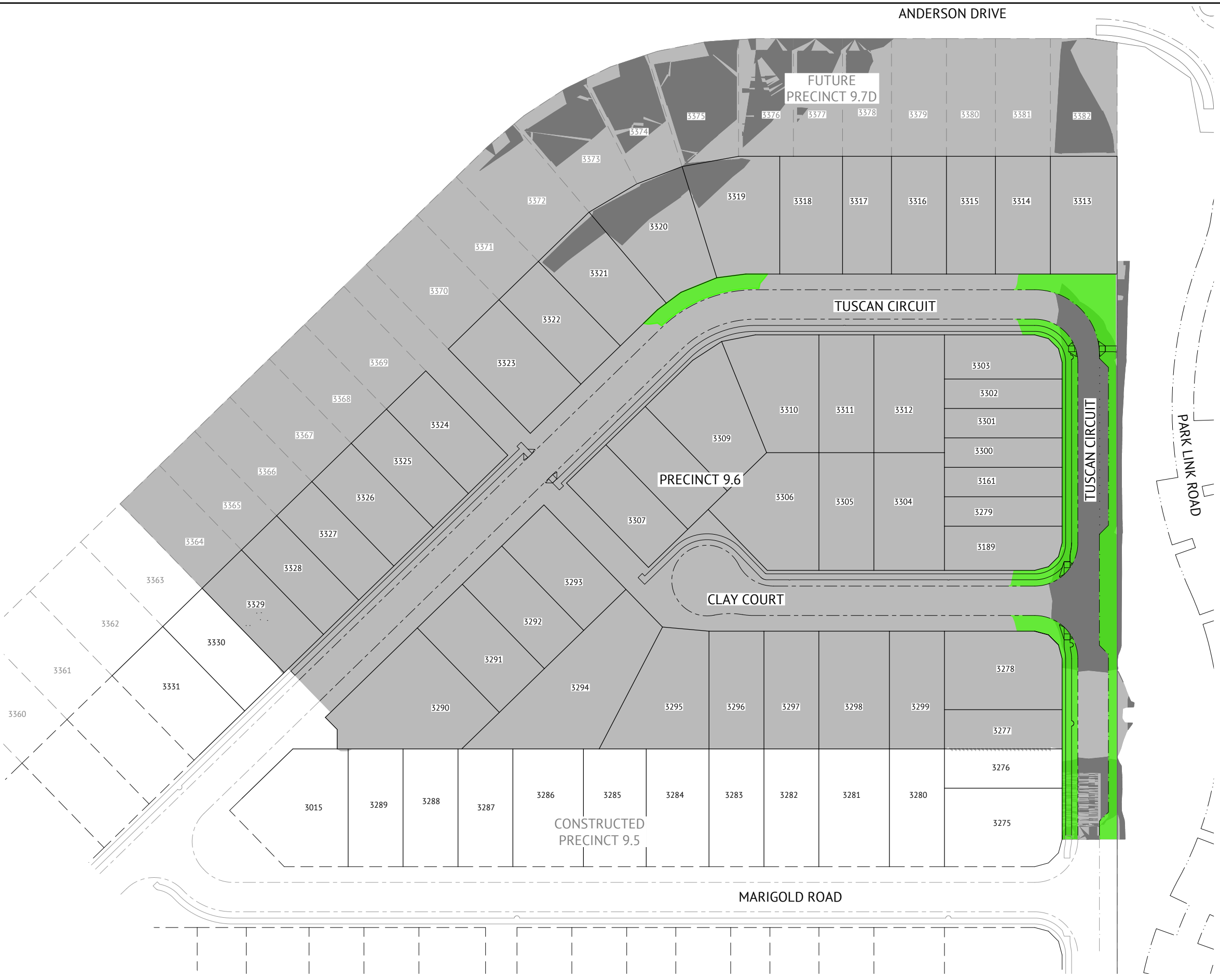
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS - SHEET 2

JOB CODE
MIR-0906

SHEET NUMBER
C211

REV
B



LEGEND

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

ALLOTMENT PREPARATION REQUIREMENT:

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

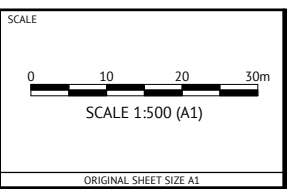
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
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31/03/2022	A	ISSUED FOR APPROVAL	KK PB

Premise
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 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
EARTHWORKS SUBGRADE ROCK PREPARATION LAYOUT PLAN

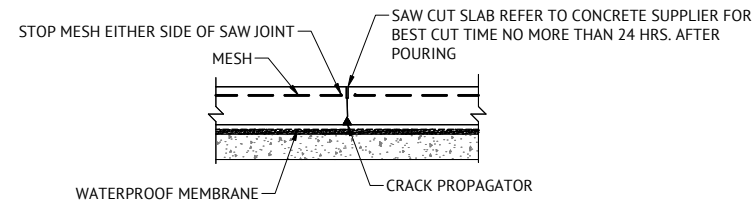
JOB CODE
MIR-0906
 SHEET NUMBER
C220
 REV
B

NOTES

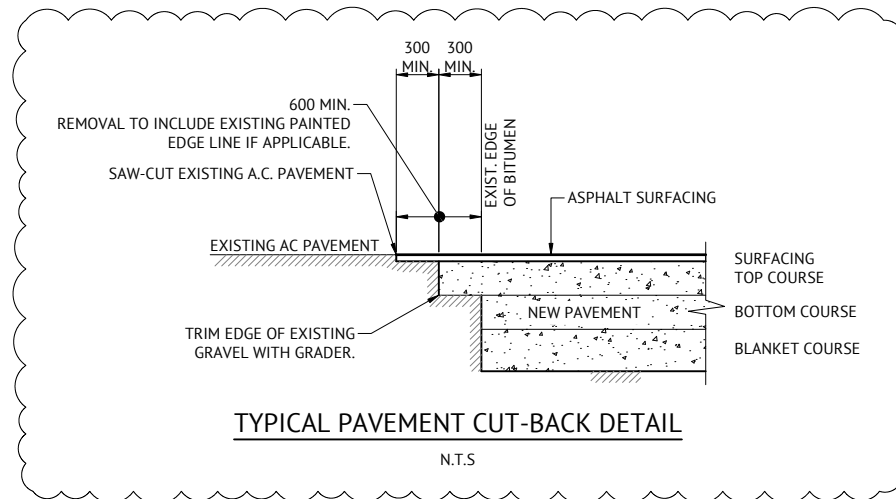
1. ALL WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARD DRAWINGS AND METHODS (U.N.O.).
2. NOTWITHSTANDING THE LIMITS OF CUTTING AND FILLING SHOWN ON THE DRAWINGS, THE ACTUAL LIMITS SHALL BE DETERMINED ON SITE BY THE SUPERINTENDENT DURING CONSTRUCTION AND SIMILARLY THE FINISHED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

ROADWORKS NOTES

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

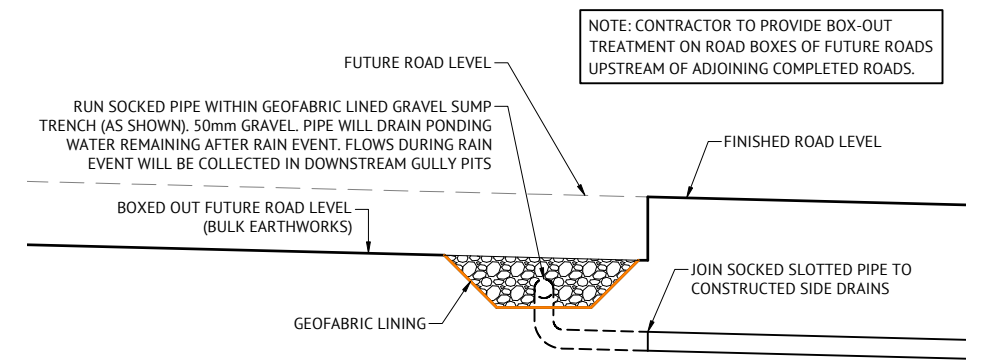


SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S



TYPICAL FUTURE ROADS BOX-OUT TREATMENT

FOR CONSTRUCTION



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ANDREW LANGDON
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NICK SOMERVILLE
PROJECT DIRECTOR
PFB
PATRICK BRADY RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
ROADWORKS NOTES AND DETAILS

JOB CODE
MIR-0906
SHEET NUMBER
C300
REV
B

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	CUT-BACK DETAIL UPDATED	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	- TUSCAN CIRCUIT
CLASS	- ACCESS STREET (TYPICAL) CH 360.00-583.50 ACCESS STREET (PARK) CH 583.50-726.60
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

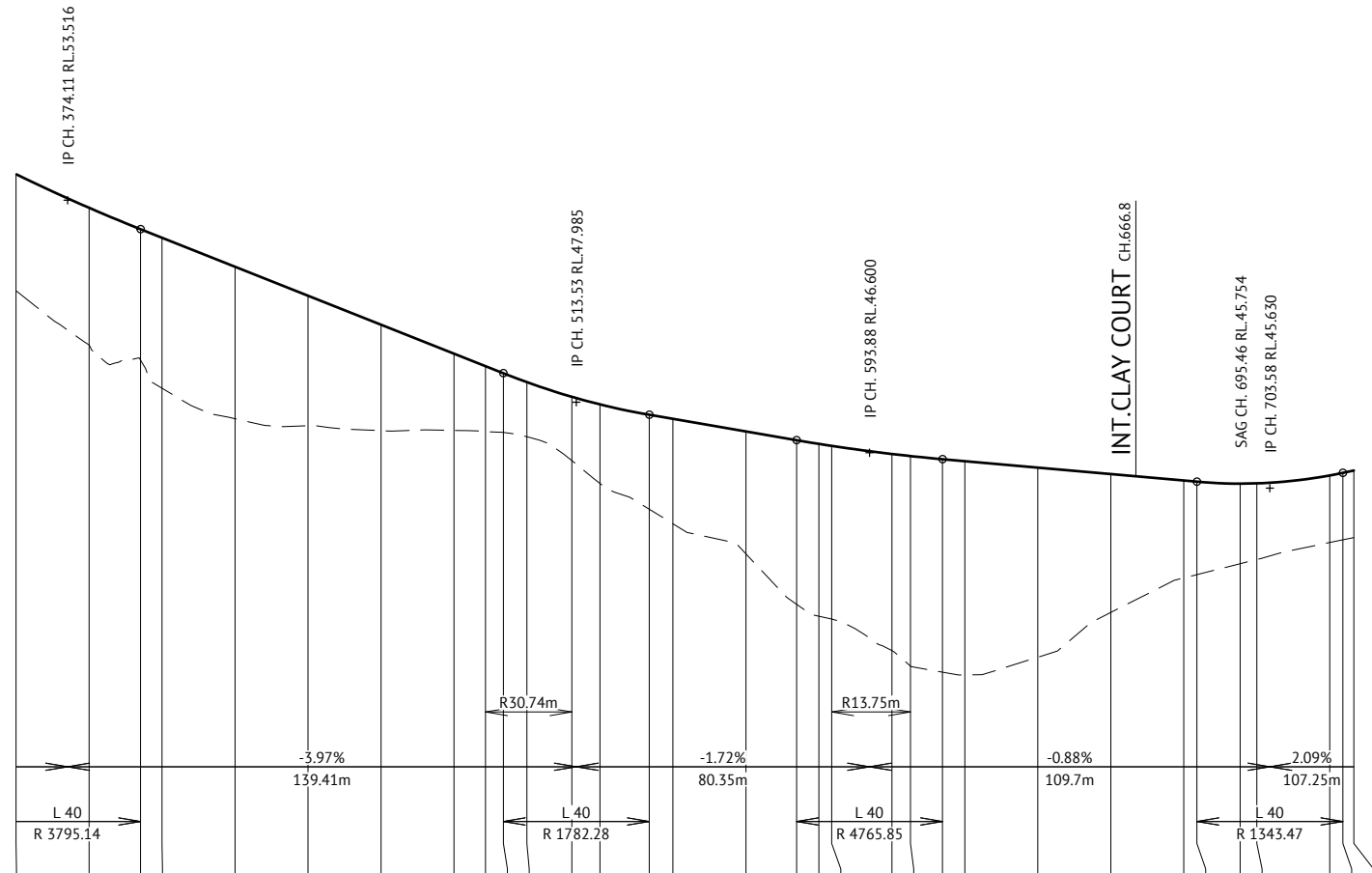
Vertical Geometry Grade (%)
Vertical Grade Length (m)

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

DATUM R.L.35.0

CUT (-)/FILL DEPTH	3.193	3.755	5.593	4.125	4.165	3.561	2.904	2.103	1.790	1.622	1.494	1.747	2.166	3.353	4.496	4.722	4.745	5.385	5.757	5.833	5.855	5.192	3.789	2.667	2.545	2.194	2.087	1.837	1.834	1.836		
LHS LIP LEVEL	54.143	53.222	52.636	52.402	51.609	50.815	50.022	49.228	48.886	48.691	48.446	48.045	47.858	47.097	46.858	46.756	46.702	46.502	46.451	46.366	46.312	46.135	45.958	45.741	45.692	45.639	45.647	45.916	45.991	46.054		
RHS LIP LEVEL	54.143	53.222	52.636	52.402	51.609	50.815	50.022	49.228	48.886	48.691	48.446	48.045	47.858	47.097	46.858	46.756	46.702	46.498	46.447	46.361	46.307	46.130	*	45.745	45.692	45.700	45.916	45.987	46.050			
DESIGN SURFACE	54.230	53.509	52.723	52.489	51.696	50.902	50.109	49.315	48.973	48.778	48.533	48.132	47.925	47.184	46.945	46.843	46.789	46.566	46.509	46.423	46.369	46.192	46.015	45.839	45.807	45.754	45.762	45.978	46.049	46.112		
NATURAL SURFACE	51.037	49.554	49.130	48.364	47.531	47.341	47.204	47.212	47.182	47.156	47.040	46.385	45.759	45.053	44.656	44.656	44.656	44.181	40.752	40.590	40.514	41.000	42.226	43.171	43.262	43.561	43.675	44.141	44.214	44.276		
CHAINAGE	360.00	380.00	394.11	400.00	420.00	440.00	460.00	480.00	488.63	493.53	500.00	512.32	520.00	533.53	540.00	560.00	573.88	580.00	583.50	600.00	605.10	613.88	620.00	640.00	660.00	680.00	683.58	695.46	700.00	720.00	723.58	726.60

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

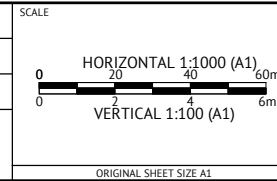


FOR CONSTRUCTION



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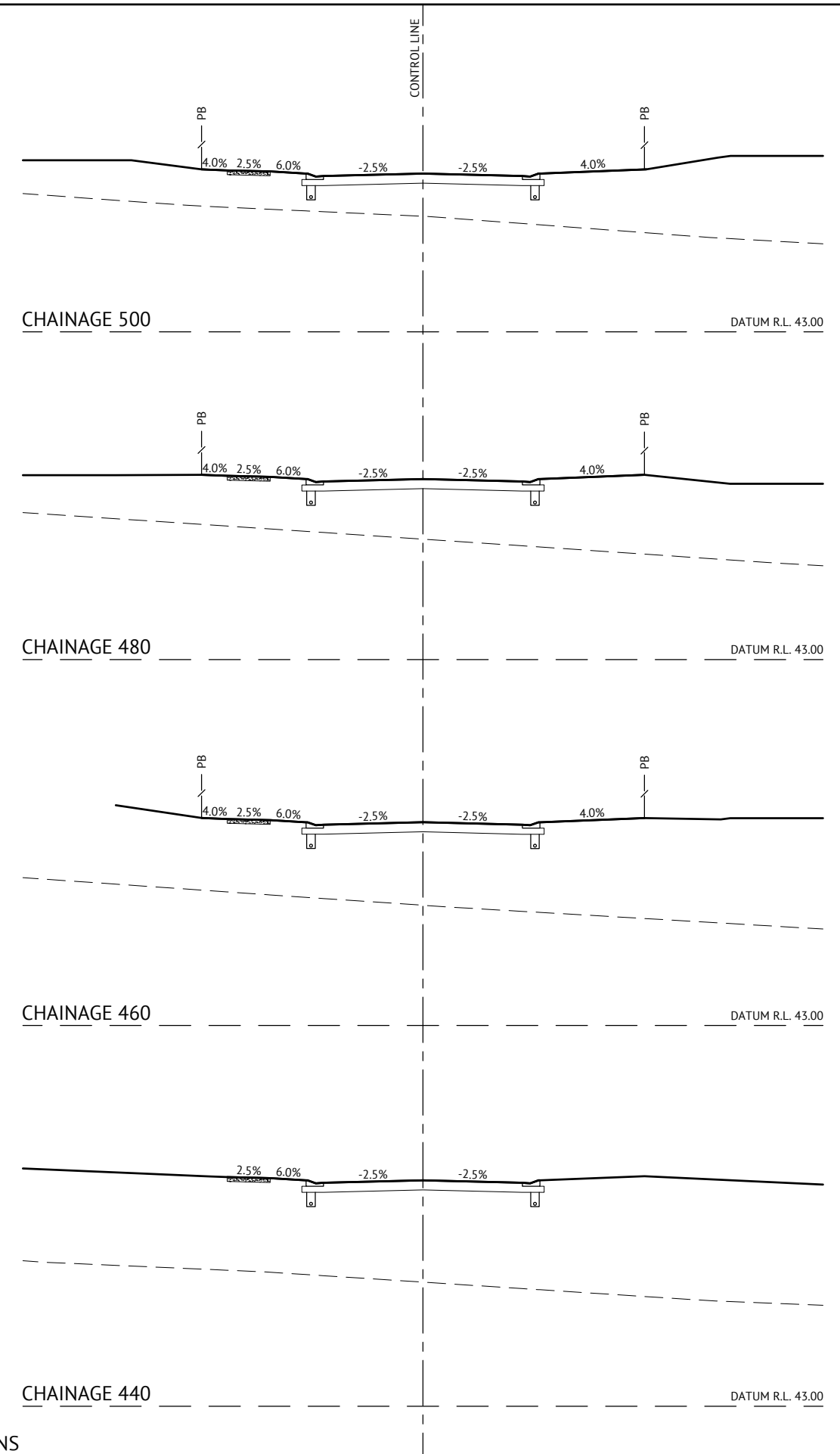
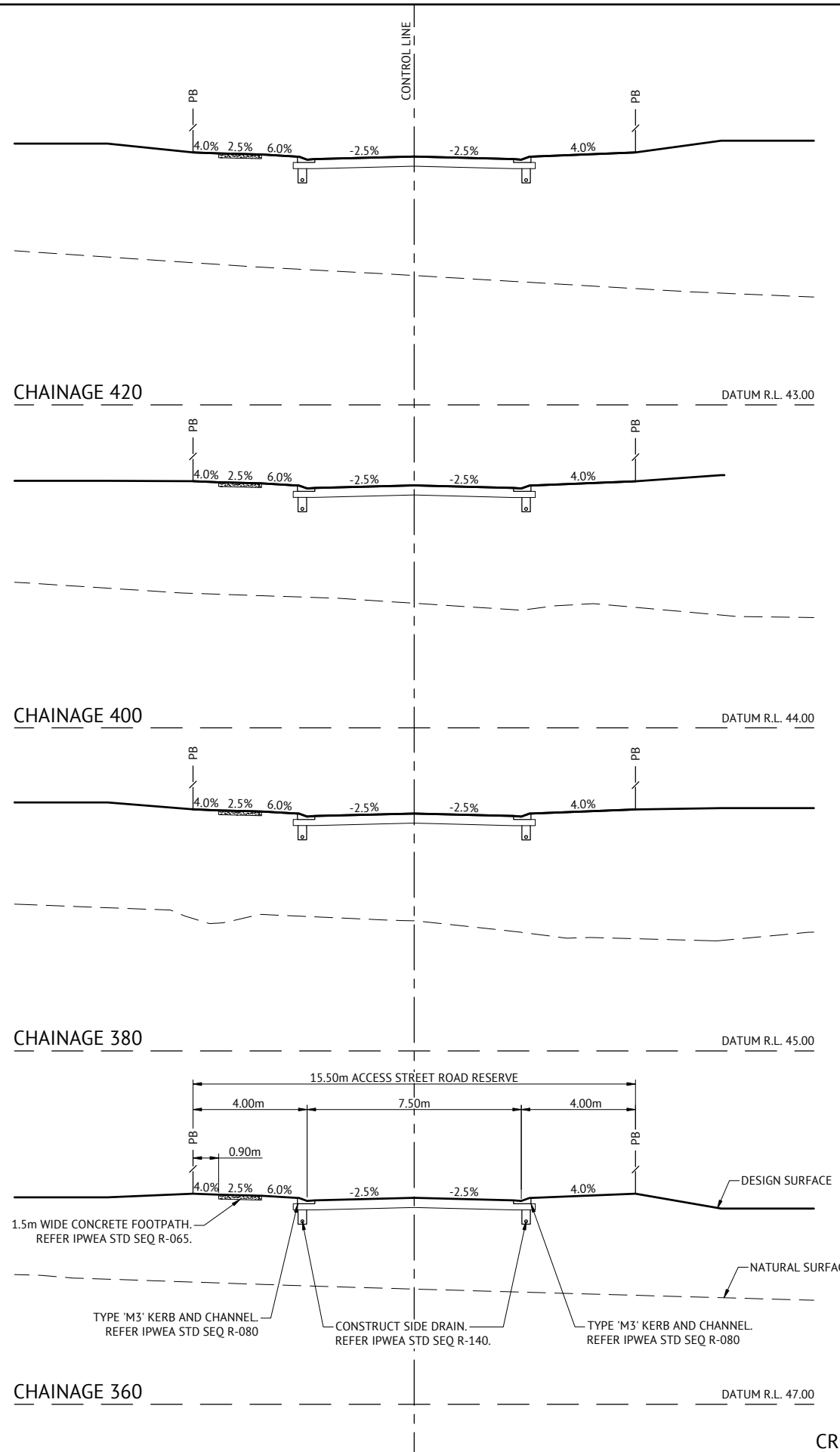
DESIGNED
KLYNT KIWANG
CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
TUSCAN CIRCUIT LONG SECTION

JOB CODE
MIR-0906
SHEET NUMBER
C310
REV
B

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB



CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

Premise

BRISBANE OFFICE
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BRISBANE, QLD 4000
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KLYNT KIWANG

CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

SCALE 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

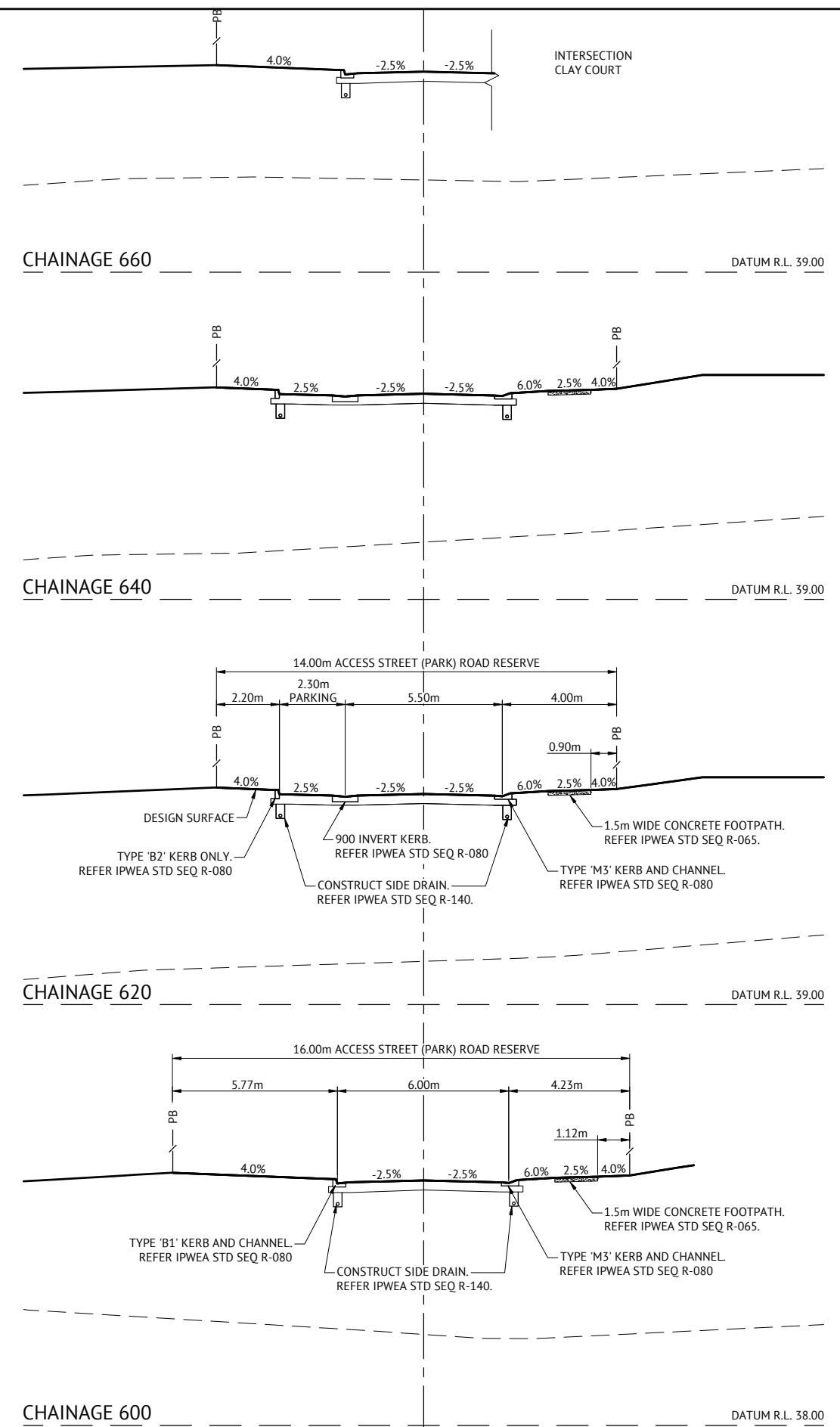
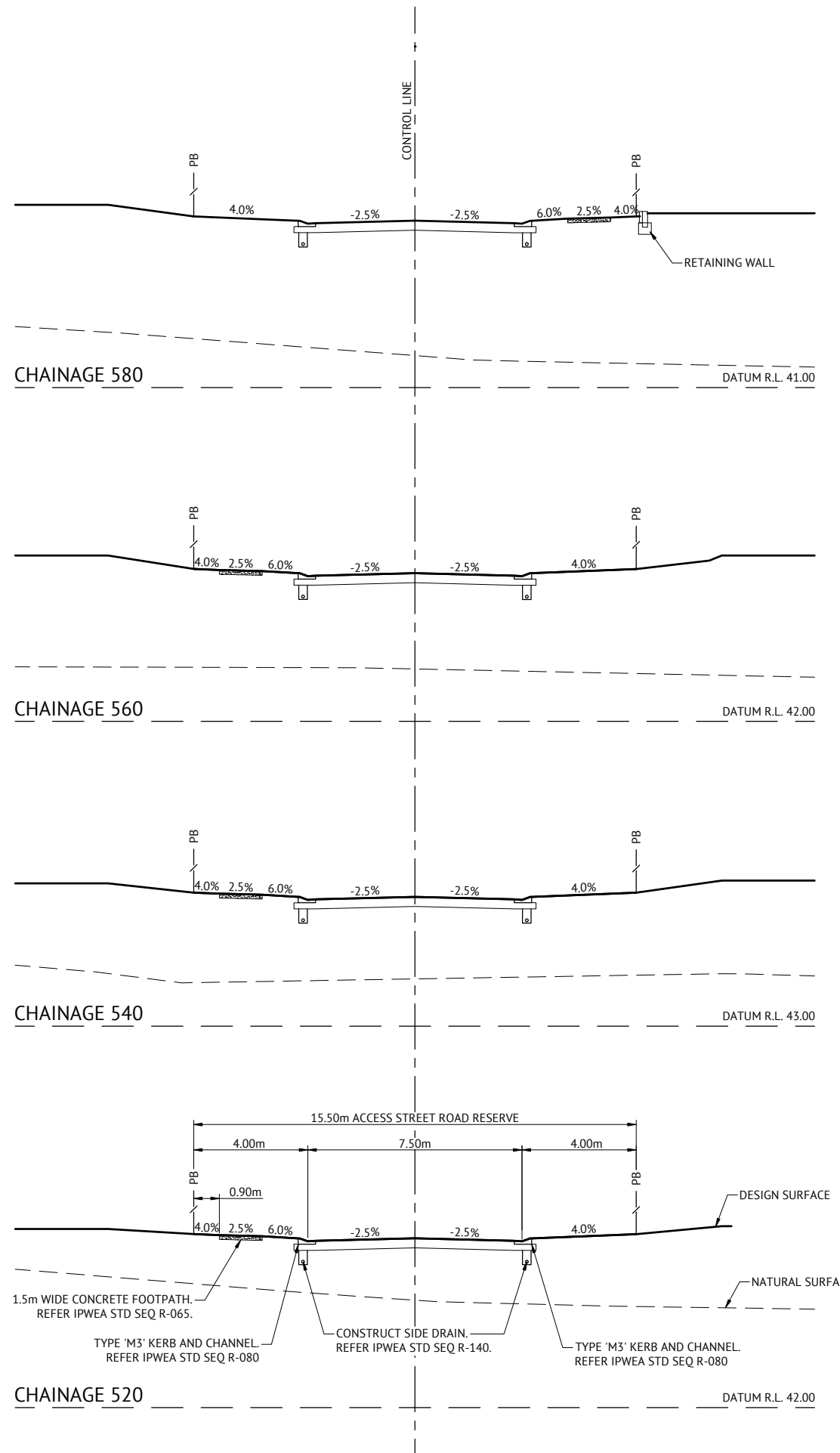
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
TUSCAN CIRCUIT CROSS SECTIONS - SHEET 1

JOB CODE
MIR-0906

SHEET NUMBER
C311

REV
B



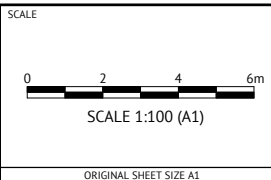
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB



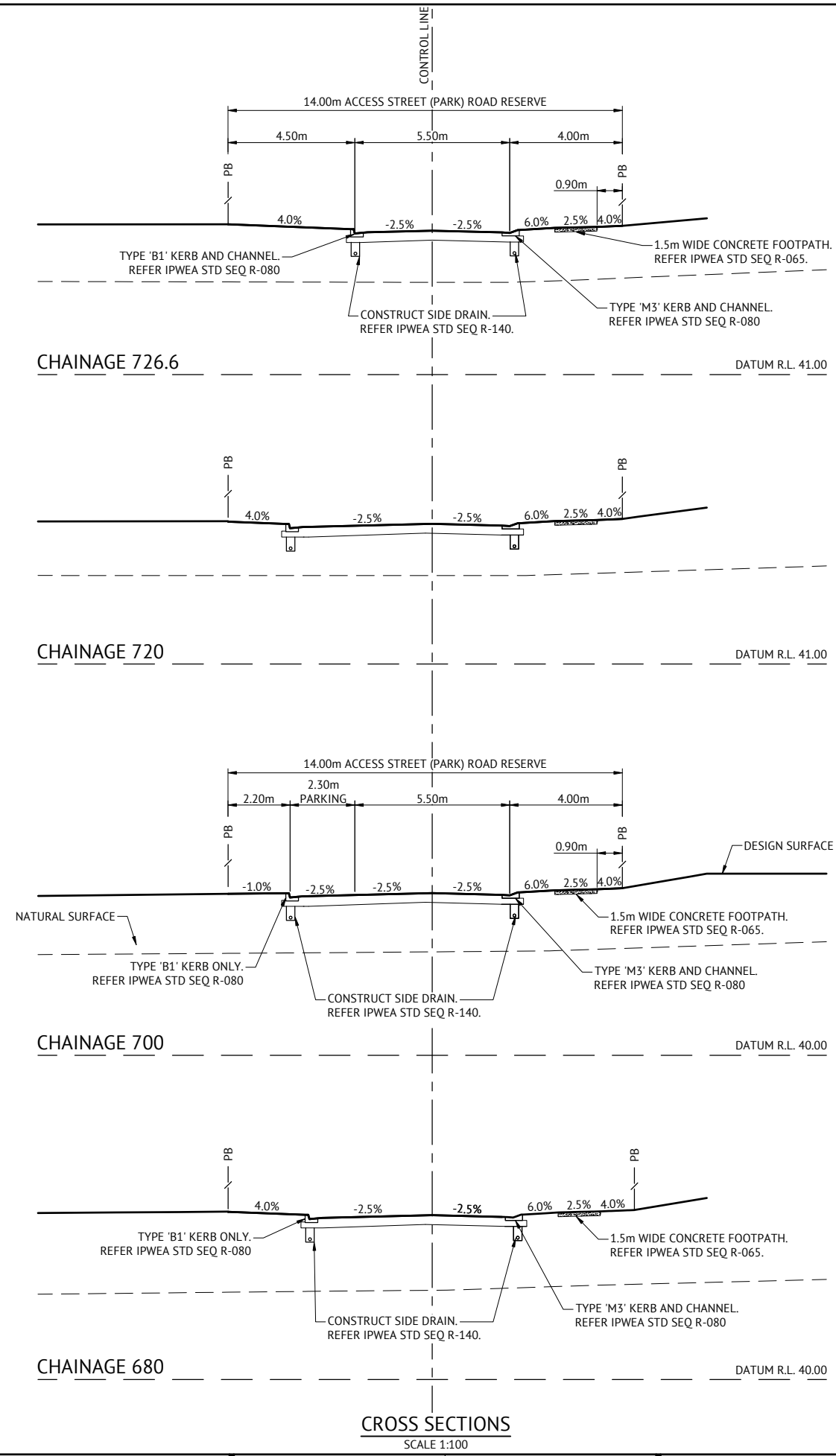
BRISBANE OFFICE
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 RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
TUSCAN CIRCUIT CROSS SECTIONS - SHEET 2

JOB CODE
MIR-0906
 SHEET NUMBER
C312
 REV
B



CROSS SECTIONS
SCALE 1:100

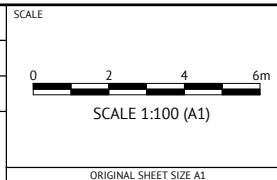
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
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CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
TUSCAN CIRCUIT CROSS SECTIONS - SHEET 3

JOB CODE
MIR-0906
SHEET NUMBER
C313
REV
B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	CLAY COURT
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

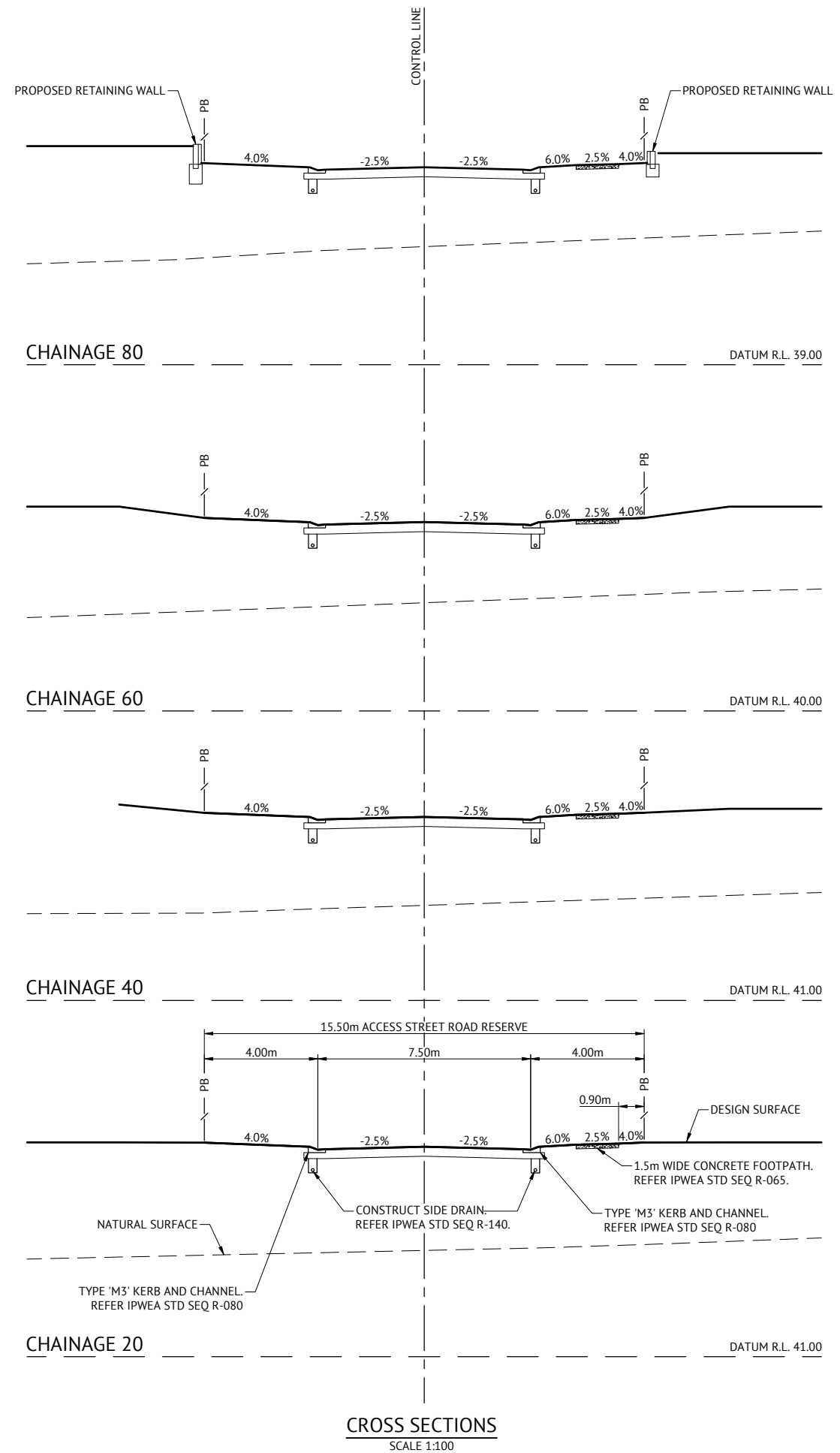
Vertical Geometry Grade (%)
Vertical Grade Length (m)

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

DATUM R.L.37.0

CUT (-)/FILL DEPTH	4.249	4.080	3.822	3.653	3.472	3.116	3.077	2.890	2.842	2.832	2.796	2.788	2.926	3.250	3.382
LHS LIP LEVEL	*													*	
RHS LIP LEVEL	*													*	
DESIGN SURFACE	49.372	49.126	48.729	48.309	47.967	47.377	47.294	46.840	46.568	46.276	45.868	45.839	45.787	45.861	45.955
NATURAL SURFACE	45.124	45.046	44.906	44.742	44.582	44.348	44.304	44.038	43.813	43.531	43.159	43.138	42.862	42.611	42.573
CHAINAGE	0.00	5.05	13.18	20.00	27.00	40.00	42.00	53.09	60.00	68.09	80.00	80.84	88.94	94.84	98.59

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



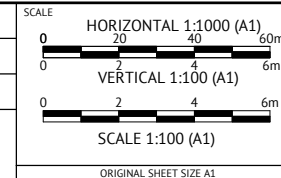
CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION



BRISBANE OFFICE
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PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112



CLIENT

MIRVAC QLD PTY LTD

PROJECT

EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

LOCATION

TEVIOT ROAD, GREENBANK

SHEET TITLE

CLAY COURT LONG SECTION AND CROSS SECTIONS

JOB CODE

MIR-0906

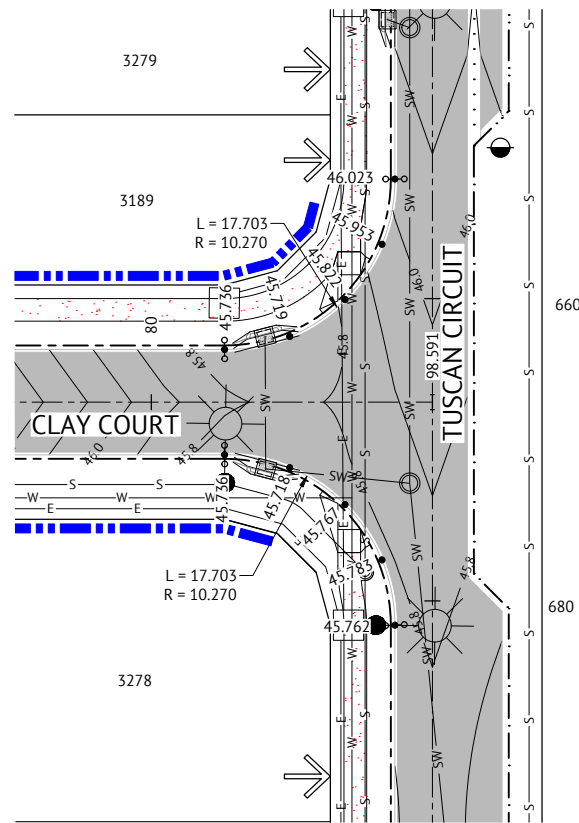
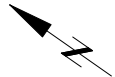
SHEET NUMBER

C314

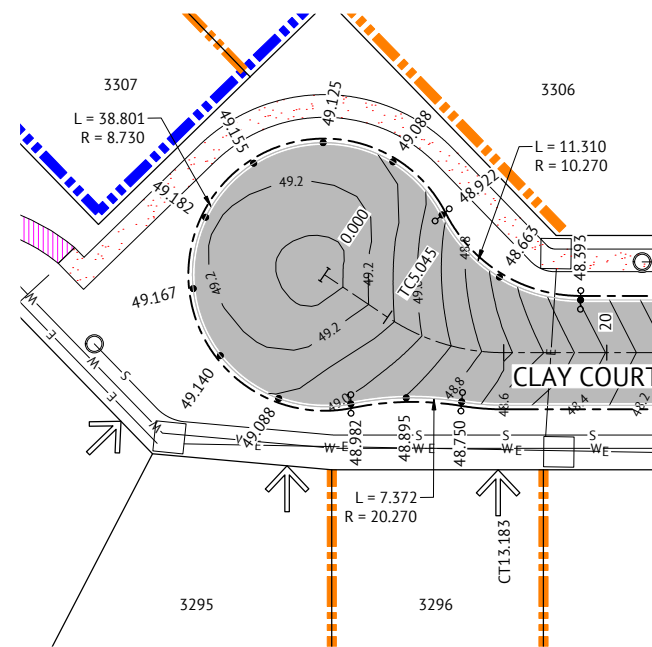
REV

B

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB



INTERSECTION TUSCAN CIRCUIT AND CLAY COURT
SCALE 1:250



CLAY COURT CUL-DE-SAC
SCALE 1:250

LEGEND - PROPOSED

- PAVEMENT
- FINISHED MAJOR CONTOURS (0.20m)
- FINISHED MINOR CONTOURS (0.10m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED CONCRETE LANDSCAPING FOOTPATH. REFER LANDSCAPING DRAWINGS FOR DETAILS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'B2' KERB. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'INV' CHANNEL. REFER IPWEA STD DWG RS-080.
- LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- PROPOSED STORMWATER
- PROPOSED SEWER
- PROPOSED WATER
- PROPOSED ELECTRICAL
- PROPOSED CONCRETE SLEEPER RETAINING WALL
- PROPOSED CONCRETE PANEL RETAINING WALL

LEGEND - CONSTRUCTED

- PROPOSED 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	REC	APP
24/04/2023	B	ADDED ELECTRICAL LINEWORK	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

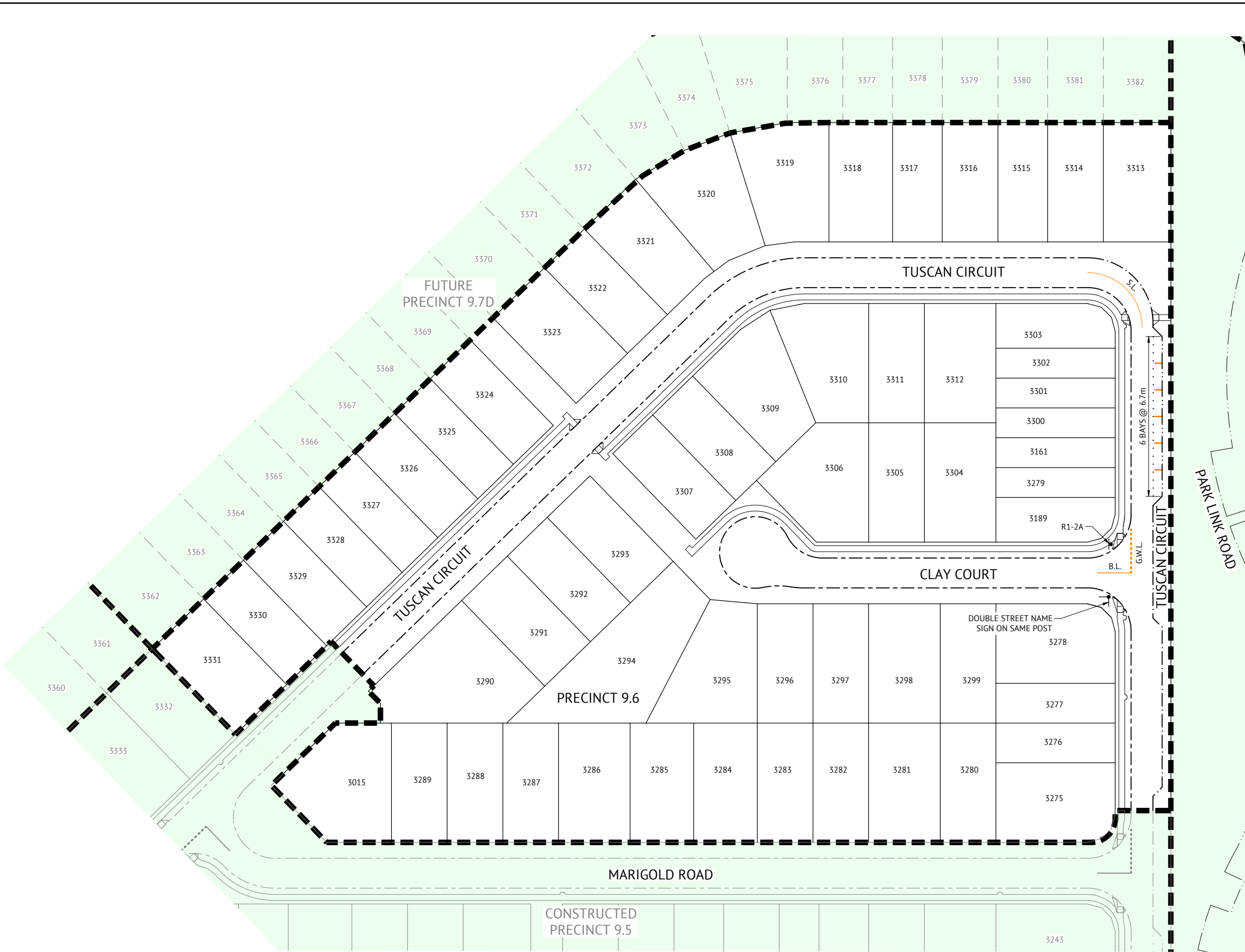
Premise
BRISBANE OFFICE
LEVEL 11, 300 ADELAIDE STREET
BRISBANE, QLD 4000
PH: (07) 3253 2222
WEB: www.premise.com.au

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

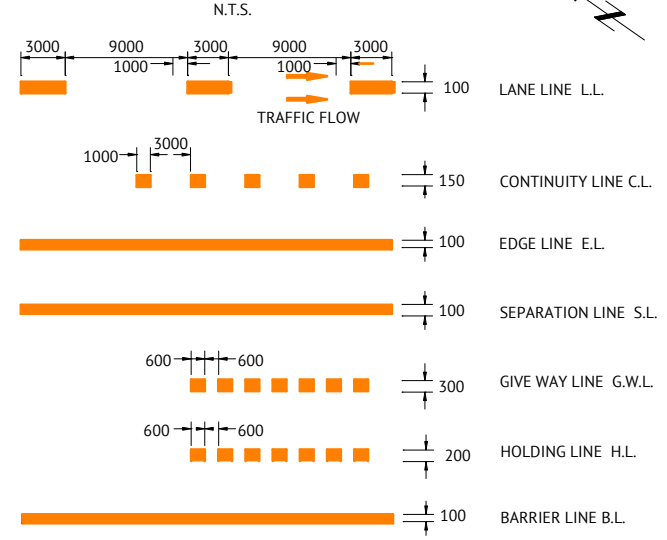
SCALE
0 5 10 15m
SCALE 1:250 (A1)
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
INTERSECTION DETAILS LAYOUT

JOB CODE
MIR-0906
SHEET NUMBER
C320
REV
B



TYPICAL LINEMARKING LEGEND



LINEMARKING NOTES

- PAVEMENT MARKING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD, QUEENSLAND DEPARTMENT OF MAIN ROADS) AND THE SPECIFIC REQUIREMENTS OF REFERENCE SPECIFICATION S150 ROADWORKS. BRISBANE CITY 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
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	KK PB

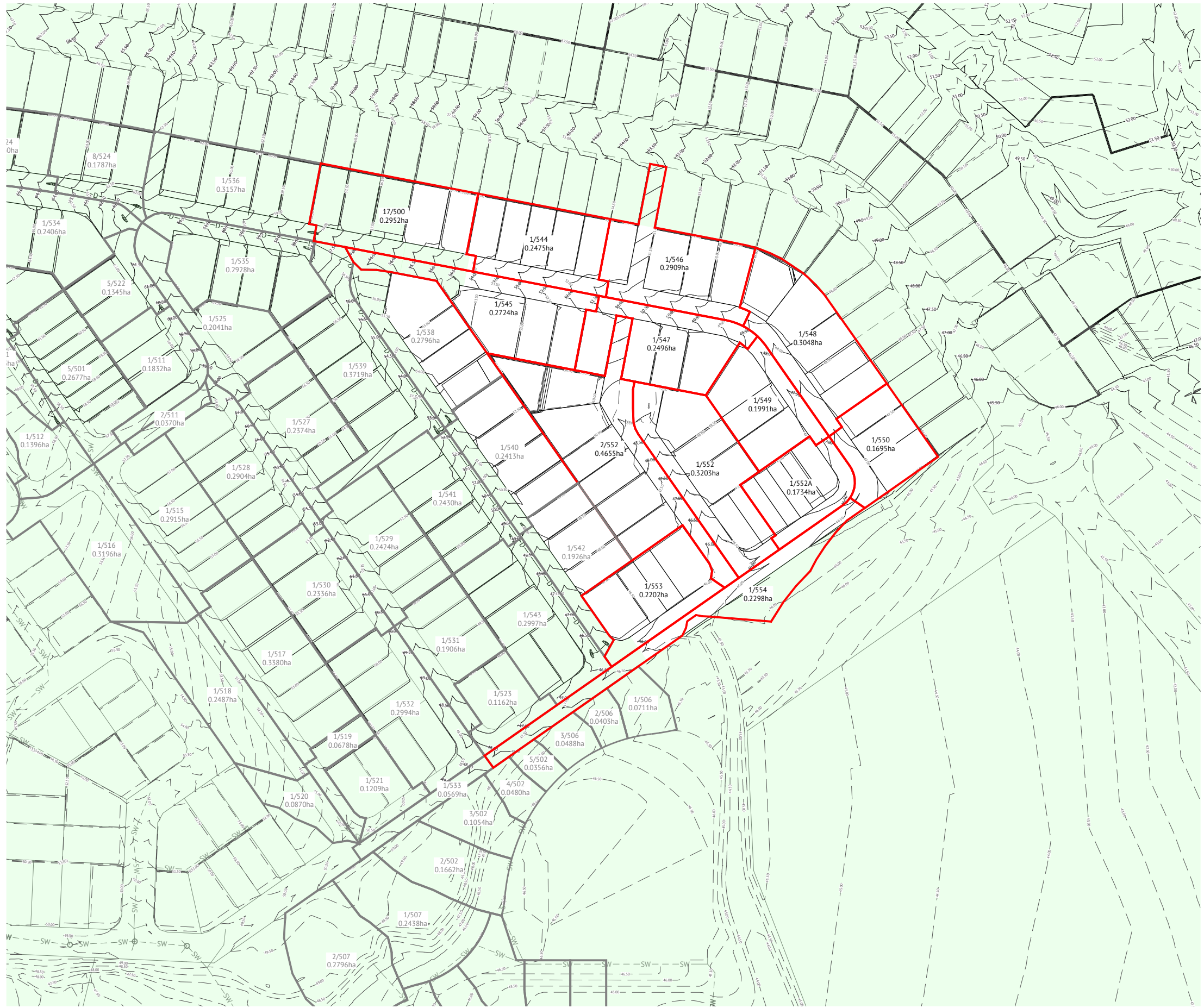
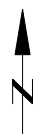
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NICK SOMERVILLE
PROJECT DIRECTOR
PATRICK BRADY
RPEQ 7112

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

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT PLAN

JOB CODE
MIR-0906
SHEET NUMBER
C330
REV
B



LEGEND

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB



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PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

SCALE



SCALE 1:1000 (A1)

ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC QLD PTY LTD**

PROJECT **EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT**

LOCATION **TEVIOT ROAD, GREENBANK**

SHEET TITLE **STORMWATER CATCHMENT LAYOUT PLAN**

JOB CODE **MIR-0906**

SHEET NUMBER	REV
C400	B



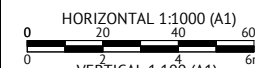
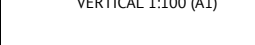
STRUCTURE NAME	17/500	16/500	15/500	14/500	13/500	12/500	11A/500	11/500	10/500	9A/500
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1800mm DIA	EXISTING PIPE END
PIPE SIZE (mm)	375	375	375	450	525	525	600	600	750	825
PIPE CLASS	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)	4.23%	3.86%	2.05%	1.49%	1.09%	1.00%	1.00%	1.00%	2.09%	1.00%
PIPE SLOPE (1 in X)	23.6	25.9	48.8	66.9	91.9	100.0	100.0	100.0	47.8	100.0
FULL PIPE VELOCITY (m/s)	0.59	1.62	1.86	1.91	1.90	1.64	1.78	1.52	1.44	1.44
PART FULL VELOCITY (m/s)	2.48	3.15	2.80	2.69	2.35	2.39	2.42	3.48	2.73	2.73
PIPE FLOW (cumecs)	0.065	0.179	0.296	0.414	0.411	0.465	0.503	0.673	0.771	0.771
PIPE CAPACITY AT GRADE (cumecs)	0.361	0.345	0.408	0.526	0.449	0.614	0.614	1.611	1.436	1.436
DATUM RL	31.0									
WSE IN STRUCTURE	52.979	50.271	47.325	45.960	45.740	45.412	44.966	44.583	44.520	
HGL IN PIPE	52.854	50.271 50.176	47.325 47.196	45.960 45.910	45.732 45.528	45.412 45.346	44.966 44.951	44.583 44.544	44.514 44.385	44.316 44.316
DEPTH OF INVERT BELOW FSL	1.377	1.471 1.491	1.446 1.521	1.494 1.569	1.548 1.568	1.565 1.640	1.649 1.669	1.704 1.834	2.322 2.397	2.697 2.697
INVERT LEVEL	52.668	49.887 49.867	46.892 46.817	45.552 45.477	45.116 45.096	44.974 44.899	44.487 44.467	44.166 44.036	43.411 43.336	43.097 43.097
FINISHED (& EXISTING) SURFACE LEVEL	54.044 (50.985)	51.358 (47.270)	48.337 (46.980)	47.046 (43.242)	46.664 (41.897)	46.538 (41.093)	46.136 (41.155)	45.870 (42.847)	45.732 (43.715)	45.794 (44.082)
CHAINAGE	0.000	65.720	77.004	142.723	61.734	204.457	24.141	228.598	11.268	239.867

WATER 100mm IL 50.273 CLR 0.351

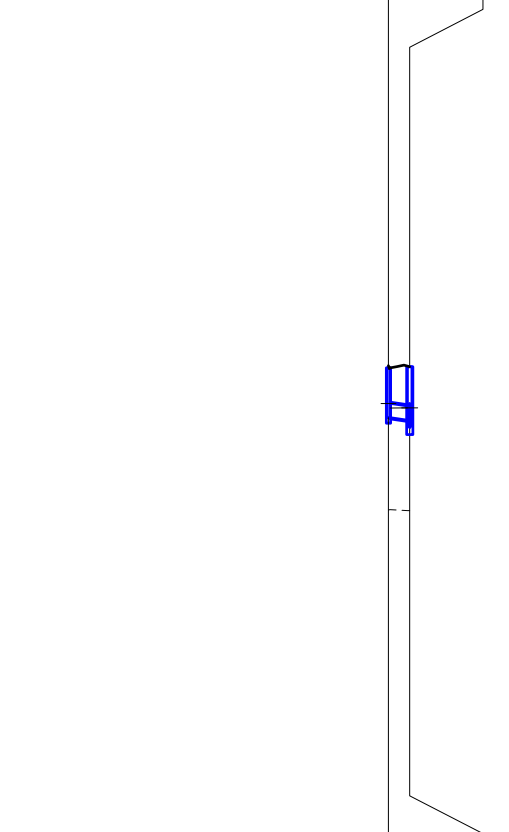
WATER 100mm IL 45.949 CLR 0.327

SEWER 150mm IL 42.901 CLR 0.368

STRUCTURE NAME	1/544	1/545	1/546	1/547	1/548
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel	IPWEA KERB INLET L.L.I.; 2.4m Lintel
PIPE SIZE (mm)	375	375	375	375	375
PIPE CLASS	2	2	2	2	2
PIPE GRADE (%)	1.20%	2.58%	3.11%	1.28%	1.20%
PIPE SLOPE (1 in X)	83.3	38.7	32.1	77.9	83.3
FULL PIPE VELOCITY (m/s)	0.56	0.49	0.59	0.52	0.65
PART FULL VELOCITY (m/s)	1.55	1.97	2.22	1.55	1.62
PIPE FLOW (cumecs)	0.061	0.054	0.065	0.057	0.072
PIPE CAPACITY AT GRADE (cumecs)	0.192	0.282	0.309	0.199	0.192
DATUM RL	33.0	33.0	31.0	31.0	29.0
WSE IN STRUCTURE	50.422	50.378	47.605	47.462	46.161
HGL IN PIPE	50.270	50.258	47.452	47.331	45.955
DEPTH OF INVERT BELOW FSL	1.315	1.346	1.344	1.328	1.315
INVERT LEVEL	49.993	50.089	47.246	46.941	45.702
FINISHED (& EXISTING) SURFACE LEVEL	51.358 (47.270)	51.358 (47.270)	48.337 (46.980)	48.337 (46.980)	47.046 (43.242)
CHAINAGE	5.467	4.212	9.436	5.671	2.834

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)  ORIGINAL SHEET SIZE A1	CLIENT MIRVAC QLD PTY LTD PROJECT EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT LOCATION TEVIOT ROAD, GREENBANK SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 1	JOB CODE MIR-0906 SHEET NUMBER C410	REV B
24/04/2023 B ISSUED FOR CONSTRUCTION KK PB 31/03/2022 A ISSUED FOR APPROVAL KK PB DATE REV DESCRIPTION REC APP	REVISIONS						

STRUCTURE NAME	1/549
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1200mm DIA

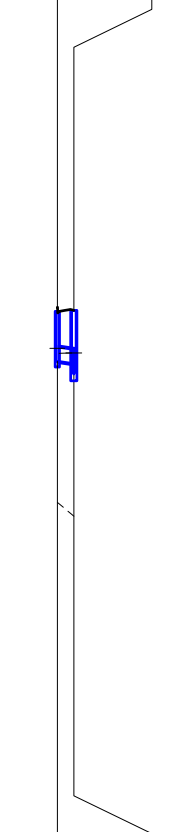


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.49
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	29.0

WSE IN STRUCTURE	46.074
HGL IN PIPE	45.957
DEPTH OF INVERT BELOW FSL	1.315
INVERT LEVEL	45.702
FINISHED (& EXISTING) SURFACE LEVEL	47.018 (43.260)
CHAINAGE	0.000

LINE 549

STRUCTURE NAME	1/550
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1200mm DIA

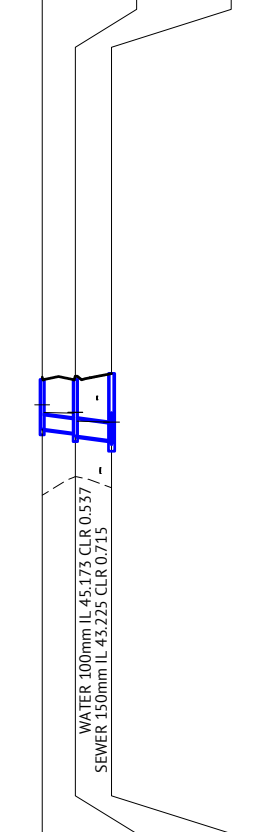


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.51
PART FULL VELOCITY (m/s)	1.51
PIPE FLOW (cumecs)	0.057
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	27.0

WSE IN STRUCTURE	45.535
HGL IN PIPE	45.403
DEPTH OF INVERT BELOW FSL	1.323
INVERT LEVEL	45.189
FINISHED (& EXISTING) SURFACE LEVEL	46.538 (41.093)
CHAINAGE	0.000

LINE 550

STRUCTURE NAME	1/552
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1200mm DIA

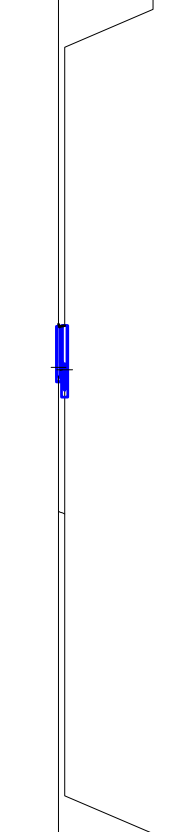


PIPE SIZE (mm)	375	450
PIPE CLASS	2	2
PIPE GRADE (%)	1.20%	1.20%
PIPE SLOPE (1 in X)	83.3	83.3
FULL PIPE VELOCITY (m/s)	0.68	1.16
PART FULL VELOCITY (m/s)	1.63	2.04
PIPE FLOW (cumecs)	0.075	0.184
PIPE CAPACITY AT GRADE (cumecs)	0.192	0.312
DATUM RL	28.0	

WSE IN STRUCTURE	45.039
HGL IN PIPE	44.837
DEPTH OF INVERT BELOW FSL	1.316
INVERT LEVEL	44.395
FINISHED (& EXISTING) SURFACE LEVEL	45.711 (42.655)
CHAINAGE	0.000

LINE 552

STRUCTURE NAME	1/552A
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1200mm DIA

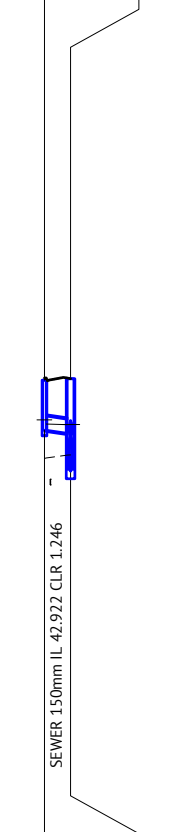


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.41
PART FULL VELOCITY (m/s)	1.42
PIPE FLOW (cumecs)	0.045
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	27.0

WSE IN STRUCTURE	45.031
HGL IN PIPE	44.948
DEPTH OF INVERT BELOW FSL	1.321
INVERT LEVEL	44.795
FINISHED (& EXISTING) SURFACE LEVEL	46.116 (41.225)
CHAINAGE	0.000

LINE 552A

STRUCTURE NAME	1/553
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1800mm DIA

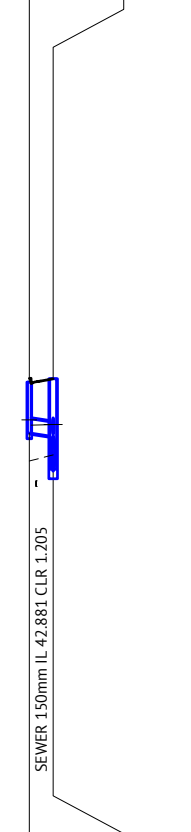


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.47
PART FULL VELOCITY (m/s)	1.48
PIPE FLOW (cumecs)	0.052
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	28.0

WSE IN STRUCTURE	44.642
HGL IN PIPE	44.534
DEPTH OF INVERT BELOW FSL	1.324
INVERT LEVEL	44.369
FINISHED (& EXISTING) SURFACE LEVEL	45.693 (43.621)
CHAINAGE	0.000

LINE 553

STRUCTURE NAME	1/554
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	IPWEA MANHOLE 1800mm DIA



PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.20%
PIPE SLOPE (1 in X)	83.3
FULL PIPE VELOCITY (m/s)	0.53
PART FULL VELOCITY (m/s)	1.53
PIPE FLOW (cumecs)	0.059
PIPE CAPACITY AT GRADE (cumecs)	0.192
DATUM RL	28.0

WSE IN STRUCTURE	44.643
HGL IN PIPE	44.502
DEPTH OF INVERT BELOW FSL	1.348
INVERT LEVEL	44.292
FINISHED (& EXISTING) SURFACE LEVEL	45.640 (43.555)
CHAINAGE	0.000

LINE 554

FOR CONSTRUCTION

24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB
DATE	REV	DESCRIPTION	REC	APP

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 WEB: www.premise.com.au

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

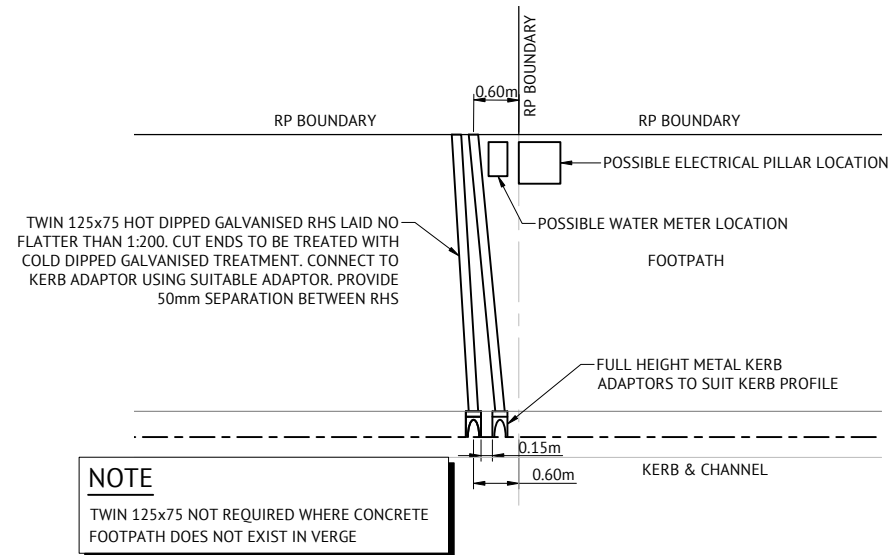
SCALE
 HORIZONTAL 1:1000 (A1)
 VERTICAL 1:100 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS - SHEET 2

JOB CODE
MIR-0906
 SHEET NUMBER
C411
 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).



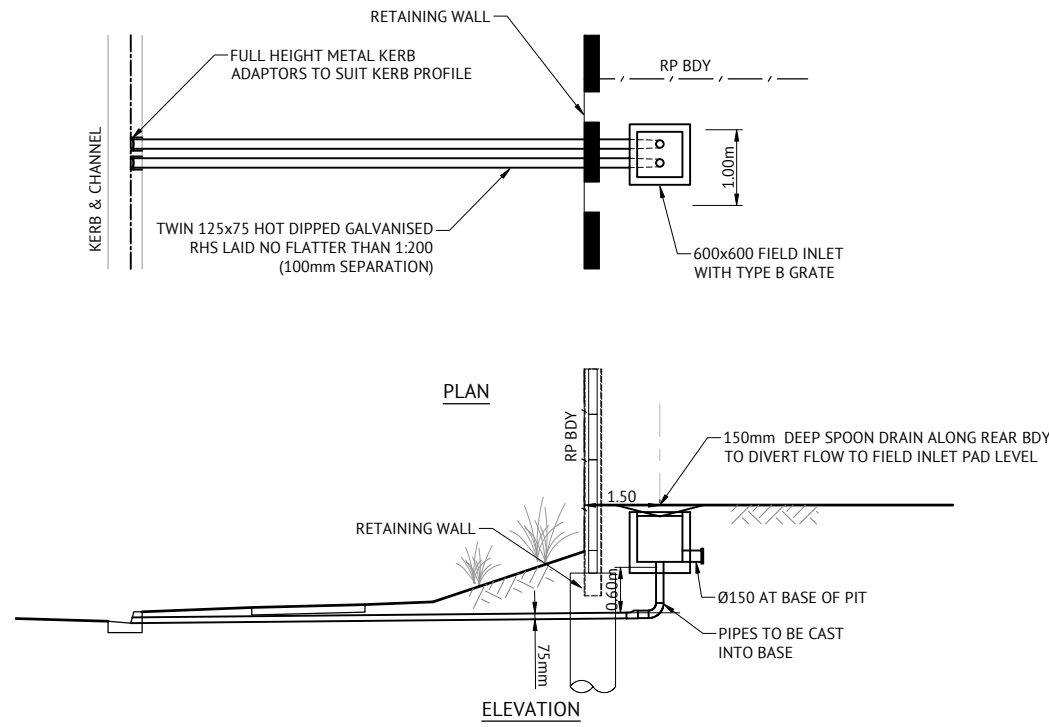
TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL
N.T.S.

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

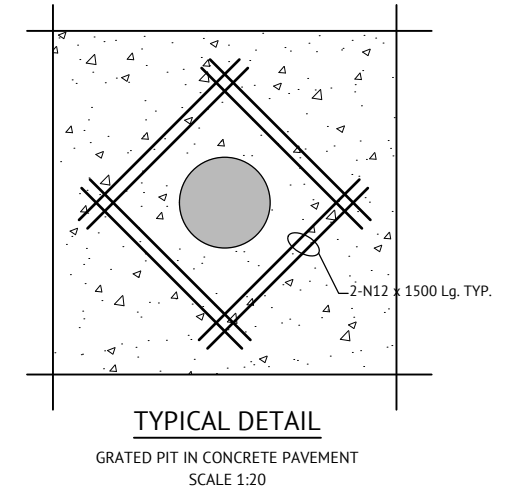
STRUCTURE TYPE	HORIZONTAL CONTROL POINT (REFERENCE POINT LOCATION)	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION 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.



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



TYPICAL DETAIL
GRATED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	KK PB

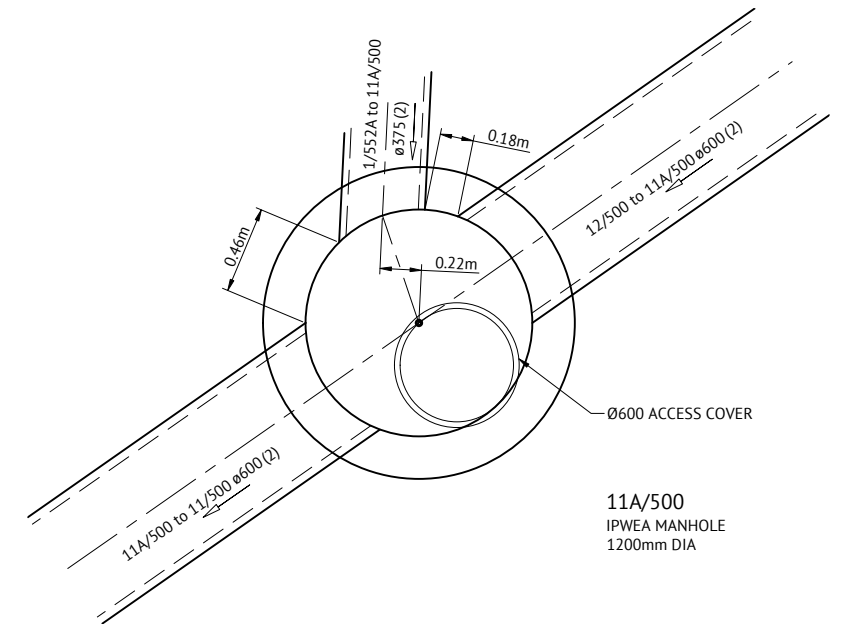
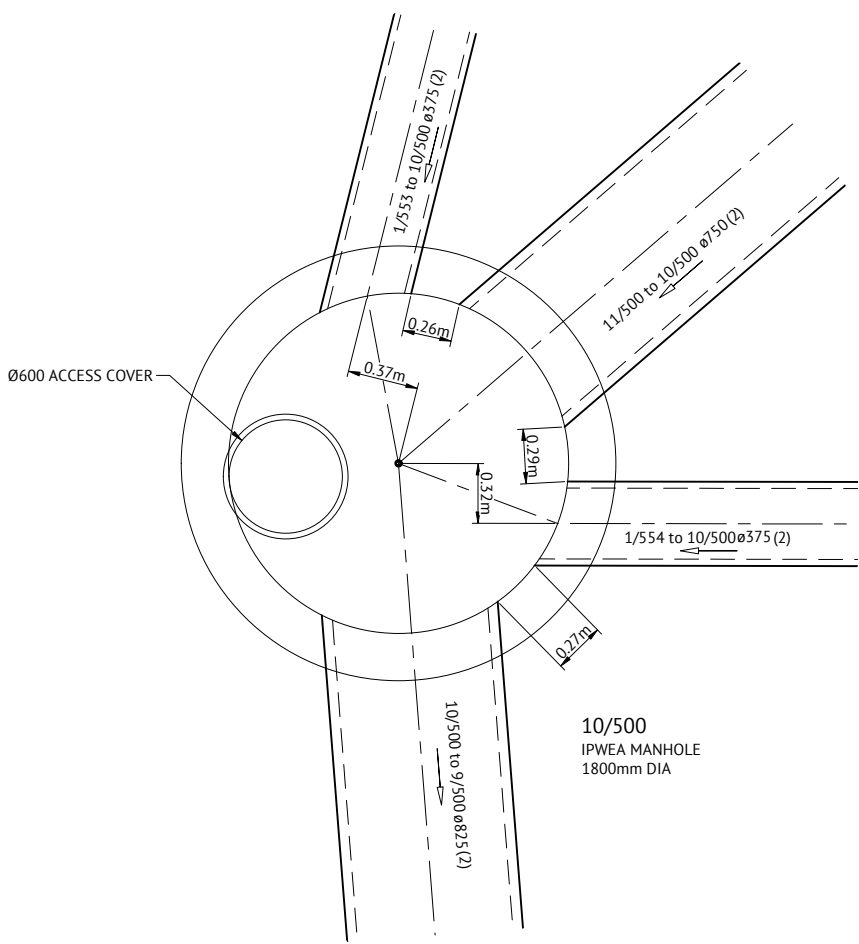
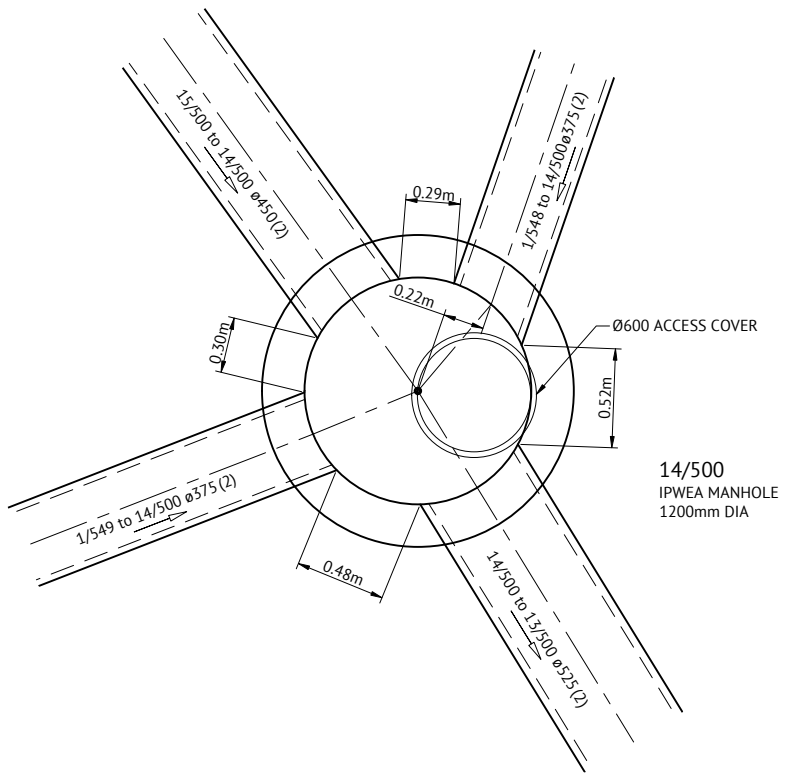
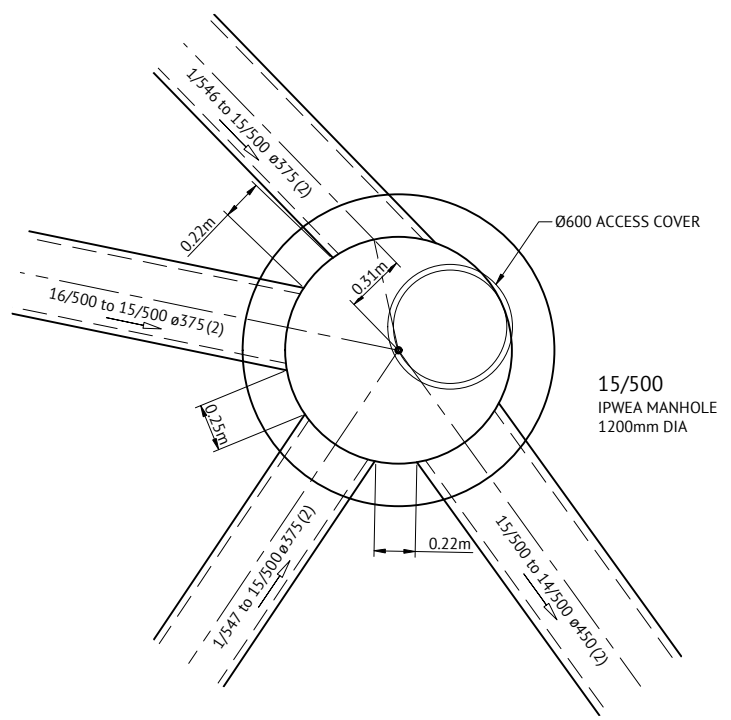
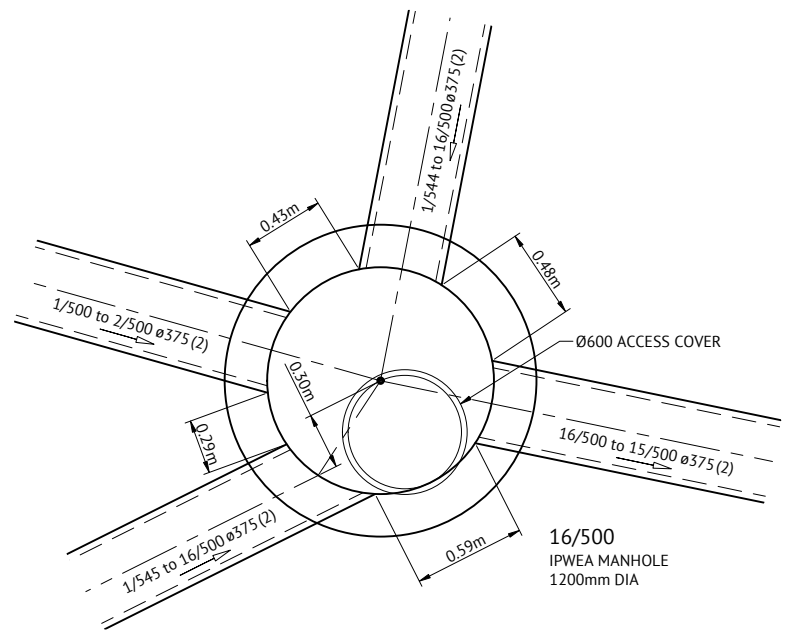
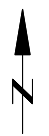
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CHECKED
ANDREW LANGDON
PROJECT MANAGER
NICK SOMERVILLE
PROJECT DIRECTOR
PKB
PATRICK BRADY RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE
MIR-0906
SHEET NUMBER
C420
REV
B

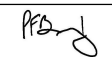


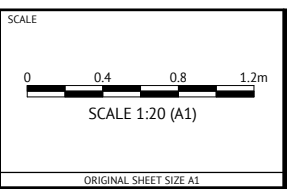
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
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PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE STRUCTURE DETAILS

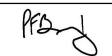
JOB CODE
MIR-0906

SHEET NUMBER	REV
C430	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	Qg	Qb	tc	I	CA	Qp	L	S	PIPE/BOX DIMENSIONS	CLASS	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	m	m
17/500	16/500	17/500	8.00	252	1.00	0.295	0.295	207	383	4.73	179	204	1/544	8.00	252	0.295	0	179	65.718	4.232	375	2	1.62	0.34	32	1.00		2.41	0.134	3.94	0.528	0.528	3.70	2.466	0.187	3.26	53.043	50.262	52.978	50.549	53.506	54.044	1680	383	0.20	17/500	
16/500	15/500	1/544 1/545 17/500												8.34	249	0.815	0	321	77.004	3.863	375	2	2.90	0.41	34 37	0.00	1.00	1.82	0.430	0.39	0.169	0.169	3.34	2.575	0.286	3.54	50.242	47.267	50.380	47.805	50.549	51.358				16/500	
15/500	14/500	1/546 1/547 1/544 1/545 17/500												8.46	247	1.345	0	445	61.734	2.048	450	2	2.80	0.40	34 37	0.00	1.00	2.20	0.400	0.48	0.192	0.192	2.44	1.504	0.450	2.80	47.267	46.002	47.613	46.109	47.805	48.337				15/500	
14/500	13/500	1/548 1/549 1/546 1/547 1/544 1/545 17/500												8.84	244	1.847	0	456	24.141	1.495	525	2	2.11	0.17	33 34	0.00	1.00	1.20	0.227	0.23	0.051	0.051	1.12	0.271	0.378	2.73	46.002	45.641	46.057	45.786	46.109	47.046				14/500	
13/500	12/500	1/548 1/549 1/546 1/547 1/544 1/545 17/500												9.01	242	1.847	0	448	11.268	1.088	525	2	2.07	0.09	37 42 43	0.00	1.00	1.48	0.218	1.11	0.242	1.15	0.251	1.03	0.122	0.429	2.36	45.621	45.499	45.544	45.427	45.795	46.664				13/500
12/500	11A/500	1/550 1/548 1/549 1/546 1/547 1/544 1/545 17/500												9.10	241	2.017	0	486	41.160	1.000	600	2	1.72	0.32	34 37	0.00	1.00	1.12	0.151	0.48	0.072	0.072	0.50	0.280	0.403	2.41	45.499	45.087	45.356	45.151	45.427	46.538				12/500	
11A/500	11/500	1/552A 1/550 1/548 1/549 1/546 1/547 1/544 1/545 17/500												9.41	238	2.190	0	552	30.124	1.000	600	2	1.95	0.23	33 34	0.00	1.00	1.14	0.194	0.23	0.044	0.044	0.81	0.243	0.445	2.46	45.067	44.766	45.107	44.864	45.151	46.136				11A/500	
11/500	10/500	1/552 2/552 1/552A 1/550 1/548 1/549 1/546 1/547 1/544 1/545 17/500												9.26	240	2.937	0	617	29.864	2.093	750	2	1.40	0.14	33 34	0.00	1.00	1.10	0.100	0.26	0.025	0.025	0.31	0.092	0.322	3.40	44.786	44.161	44.839	44.747	44.864	45.870				11/500	
10/500	9A/500	1/553 1/554 1/552 2/552 1/552A 1/550 1/548 1/549 1/546 1/547 1/544 1/545 17/500												9.40	238	3.387	0	680	23.843	1.000	825	2	1.27	0.15	42 43	0.00	1.00	1.72	0.083	1.42	0.117	1.49	0.123	0.22	0.053	0.400	2.65	44.161	43.922	44.630	44.576	44.753	45.732				10/500
9A/500																																											9A/500				
1/544	16/500	1/544	8.00	252	1.00	0.247	0.247	173	377	3.97	56	321	1/546	8.00	252	0.247	0	56	5.467	1.200	375	2	0.51	0.05	32	1.00		1.78	0.013	8.17	0.108	0.108	0.10	0.006	0.139	1.51	50.368	50.303	50.555	50.549	50.662	51.308	1743	377	0.19	1/544	
1/545	16/500	1/545	8.00	252	1.00	0.272	0.272	191	191	3.97	93	97	1/547	8.00	252	0.272	0	93	4.036	2.694	375	2	0.84	0.03	32	1.00		1.96	0.036	7.22	0.262	0.262	0.28	0.012	0.149	2.29	50.464	50.355	50.561	50.549	50.823	51.435	1743	191	0.13	1/545	
1/546	15/500	1/546	8.00	252	1.00	0.291	0.291	204	525	3.46	140	385	1/548	8.00	252	0.291	0	140	9.317	3.151	375	2	1.27	0.06	32	1.00		2.65	0.082	4.57	0.375	0.375	0.64	0.060	0.177	2.73	47.621	47.328	47.865	47.805	48.240	48.590	1775	525	0.24	1/546	
1/547	15/500	1/547	8.00	252	1.00	0.250	0.250	175	272	3.88	1	271	1/549	8.00	252	0.250	0	1	5.668	1.284	375	2	0.01	0.05	32	1.00		2.30	0.000	5.73	0.000	0.000	0.00	0.000	0.023	0.53	47.316	47.244	47.805	47.805	47.805	48.270	1743	272	0.16	1/547	
1/548	14/500	1/548	8.00	252	1.00	0.305	0.305	213	598	1.72	29	569	1/550	8.00	252	0.305	0	29	2.753	1.235	375	2	0.27	0.03	32	1.00		1.18	0.004	9.70	0.035	0.035	0.03	0.001	0.099	1.26	46.077	46.043	46.109	46.109	46.144	47.018	1929	598	0.23	1/548	
1/549	14/500	1/549	8.00	252	1.00	0.199	0.199	139	410	1.72	9	402	1/552A	8.00	252	0.199	0	9	5.602	1.202	375	2	0.08	0.05	32	1.00		1.09	0.000	9.70	0.003	0.003	0.00	0.000	0.054	0.88	46.077	46.010	46.109	46.109	46.112	47.018	1929	410	0.17	1/549	
1/550	12/500	1/550	8.00	252	1.00	0.170	0.170	119	687	0.88	48	639	1/554	8.00	252	0.170	0	48	4.328	1.211	375	2	0.43	0.04	32	1.00		1.25	0.010	9.70	0.093	0.093	-0.08	0.005	0.128	1.45	45.564	45.511	45.424	45.427	45.518	46.512	1548	687	0.28	1/550	
1/552	2/552	1/552	8.00	252	1.00	0.320	0.320	224	659	0.94	6	653	2/552	8.00	252	0.320	0	6	8.734	1.204	375	2	0.05	0.08	32	1.00		1.63	0.000	8.97	0.001	0.001	0.00	0.000	0.044	0.78	44.770	44.665	45.007	45.007	45.008	45.711	1548	659		1/552	
2/552	11/500	1/552 2/552	8.00	252	1.00	0.466	0.466	326	979	0.92	104	875	1/553	8.08	251	0.786	0	108	9.575	1.201	450	2	0.68	0.08	32 42 46 43 47	0.95	0.83	1.76	0.024	5.46	0.129	5.50	0.130	0.14	0.014	0.183	1.79	44.665	44.550	44.878	44.864	45.008	45.711	1548	979		2/552
1/552A	11A/500	1/552A	8.00	252	1.00	0.173	0.173	121	523	0.88	88	435	1/552	8.00	252	0.173	0	88	1.562	1.242	375	2	0.80	0.02	32	1.00		1.73	0.032	8.45	0.274	0.274	0.14	0.003	0.178	1.70	45.170	45.151	45.153	45.151	45.427	46.116	1929	523	0.21	1/552A	
1/553	10/500	1/553	8.00	252	1.00	0.220	0.220	154	2503	0.22	-25	2528	1/554	8.00	252	0.220	0	221	6.725	1.235	375	2	2.00	0.07				0.204	0.000	0.000	0.000	1.58	0.109	0.375	2.00	44.744	44.661	44.856	44.747	44.856	45.693	5100	2503		1/553		
1/554	10/500	1/554	6.00	275	1.00	0.230	0.230	176	5081	0.22	130	4951	LOST	6.00	275	0.230	0	130	6.175	1.228	375	2	1.17	0.06	32	1.00		2.35	0.070	5.55	0.390	0.390	0.55	0.035	0.226	1.87	44.667	44.591	44.781	44.747	45.171	45.640	5100	5081		1/554	

FOR CONSTRUCTION			
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK PB
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DATE	REV	DESCRIPTION	REC APP
REVISIONS			

 **BRISBANE OFFICE**
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PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112

SCALE
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM

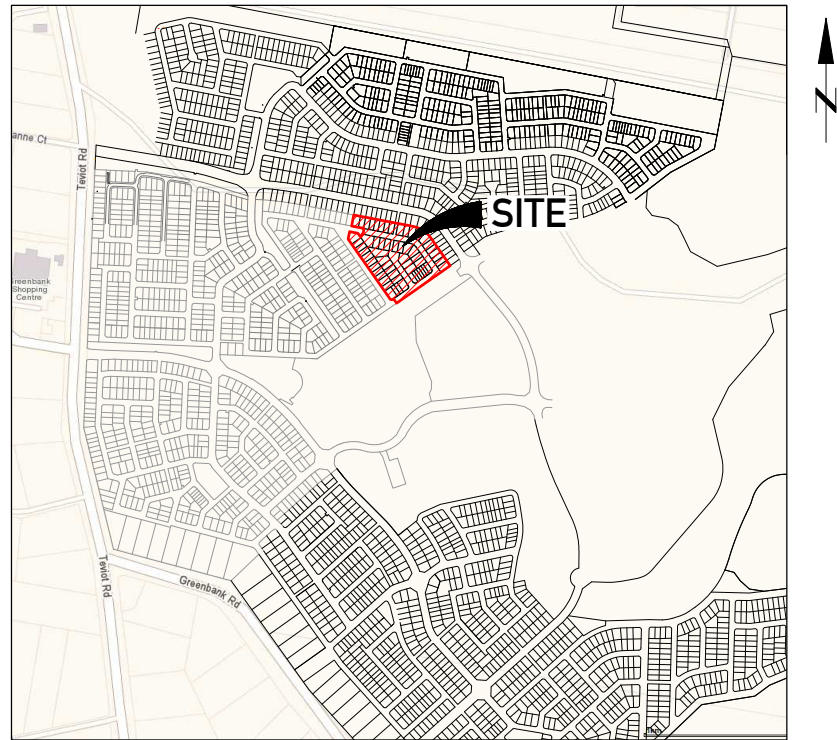
JOB CODE
MIR-0906
SHEET NUMBER
C441
REV
B

EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC QLD PTY LTD

SEWERAGE



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
 LOT 9 on S312355

NAME OF ESTATE	EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT	
SUBDIVIDER	Mirvac QLD Pty Ltd	
APPLICATION No.	DEV 2020/1160	
SP DELEGATE APPROVAL DATE	26/08/21	
COUNCIL DA APPROVAL No.	-	
DRAWING/PLAN No.	C510	
No. OF ALLOTMENTS	60	
AREA ha	3.55ha	
LENGTH OF SEWERS	DN150 uPVC SN8	465.20m

GENERAL NOTES

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

VEGETATION PROTECTION

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

SAFETY

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

INDEMNITY - EXISTING SERVICES

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

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

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

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

TRENCH SPOIL NOTE:

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

EXCAVATION IN ROCK NOTE:

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

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN
C520	SEWERAGE LONG SECTIONS
C530	SEWERAGE NOTES AND DETAILS

FOR CONSTRUCTION



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

 SCALE 1:10000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LOCALITY PLAN & NOTES

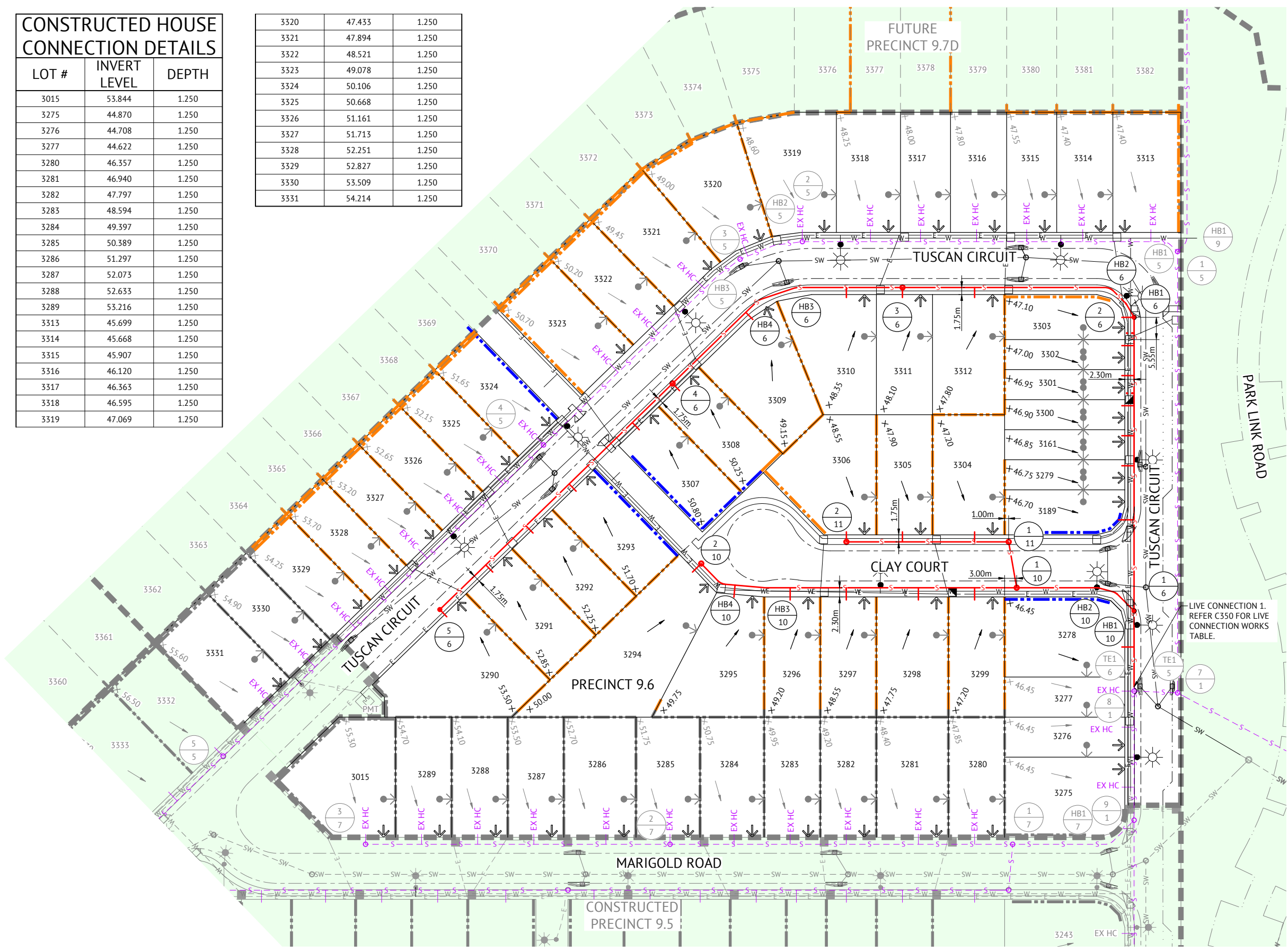
JOB CODE
MIR-0906
 SHEET NUMBER
C500
 REV
B

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

CONSTRUCTED HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
3015	53.844	1.250
3275	44.870	1.250
3276	44.708	1.250
3277	44.622	1.250
3280	46.357	1.250
3281	46.940	1.250
3282	47.797	1.250
3283	48.594	1.250
3284	49.397	1.250
3285	50.389	1.250
3286	51.297	1.250
3287	52.073	1.250
3288	52.633	1.250
3289	53.216	1.250
3313	45.699	1.250
3314	45.668	1.250
3315	45.907	1.250
3316	46.120	1.250
3317	46.363	1.250
3318	46.595	1.250
3319	47.069	1.250

3320	47.433	1.250
3321	47.894	1.250
3322	48.521	1.250
3323	49.078	1.250
3324	50.106	1.250
3325	50.668	1.250
3326	51.161	1.250
3327	51.713	1.250
3328	52.251	1.250
3329	52.827	1.250
3330	53.509	1.250
3331	54.214	1.250



LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 7.5m OFFSET FROM SIDE BODY WITH DWAY. 1.2m OFFSET FROM SIDE BODY WITHOUT DWAY. TYPICAL U.N.O.
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- LOT NUMBER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL
- 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
- ELECTRICAL
- 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

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	KK	PB
24/04/2023	B	ADDED ELECTRICAL LINWORK	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

Premise
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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 9.6 SUBDIVISION DEVELOPMENT**
LOCATION: **TEVIOT ROAD, GREENBANK**
SHEET TITLE: **SEWERAGE LAYOUT PLAN**

JOB CODE: **MIR-0906**
SHEET NUMBER: **C510**
REV: **B**

MAINTENANCE HOLE / SHAFT NO.	TE1/6	1/6	2/6	HB1/6	HB2/6	3/6	HB3/6	HB4/6	4/6	5/6
MH / MS COVER TYPE		B	B			B			B	B
MH / MS TYPE		A	J	LRB	LRB	J	LRB	LRB	J	J
MH DROP TYPE		V	V			V			V	V
LINE NO.		10	6			6			6	
PROPERTY CONNECTION DEPTH		1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.250	1.350
PROPERTY CONNECTION INVERT LEVEL		44.632	44.852	45.027	45.094	45.160	45.226	45.293	45.363	46.726
PROPERTY CONNECTION TYPE		D	D	D	D	D	D	D	D	B
LOT NO.		3278	3185	3278	3161	3300	3301	3302	3303	3312

MAINTENANCE HOLE / SHAFT NO.	1/6	HB1/10	HB2/10	1/10	HB3/10	HB4/10	2/10
MH / MS COVER TYPE	B			B			B
MH / MS TYPE	A	LRB	LRB	A	LRB	LRB	J
MH DROP TYPE	V			V			V
LINE NO.	6			11	10		
PROPERTY CONNECTION DEPTH		1.250	1.250	1.250	1.250	1.115	
PROPERTY CONNECTION INVERT LEVEL		45.704	46.275	47.109	47.759	48.066	48.593
PROPERTY CONNECTION TYPE		B	B	B	B	B	B
LOT NO.		3299	3298	3297	3296	3295	3294

MAINTENANCE HOLE / SHAFT NO.	1/10	1/11	2/11
MH / MS COVER TYPE	B	B	B
MH / MS TYPE	A	J	J
MH DROP TYPE	V	V	V
LINE NO.	11	10	11
PROPERTY CONNECTION DEPTH		1.250	1.250
PROPERTY CONNECTION INVERT LEVEL		45.704	46.450
PROPERTY CONNECTION TYPE		B	B
LOT NO.		3304	3305

LEGEND
 RR DENOTES ROAD RESERVE
 PP DENOTES PRIVATE PROPERTY

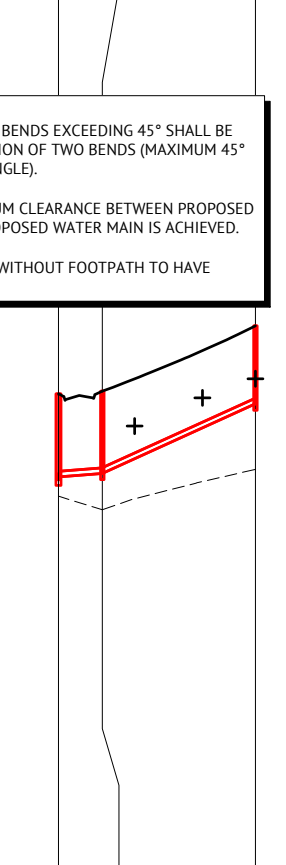
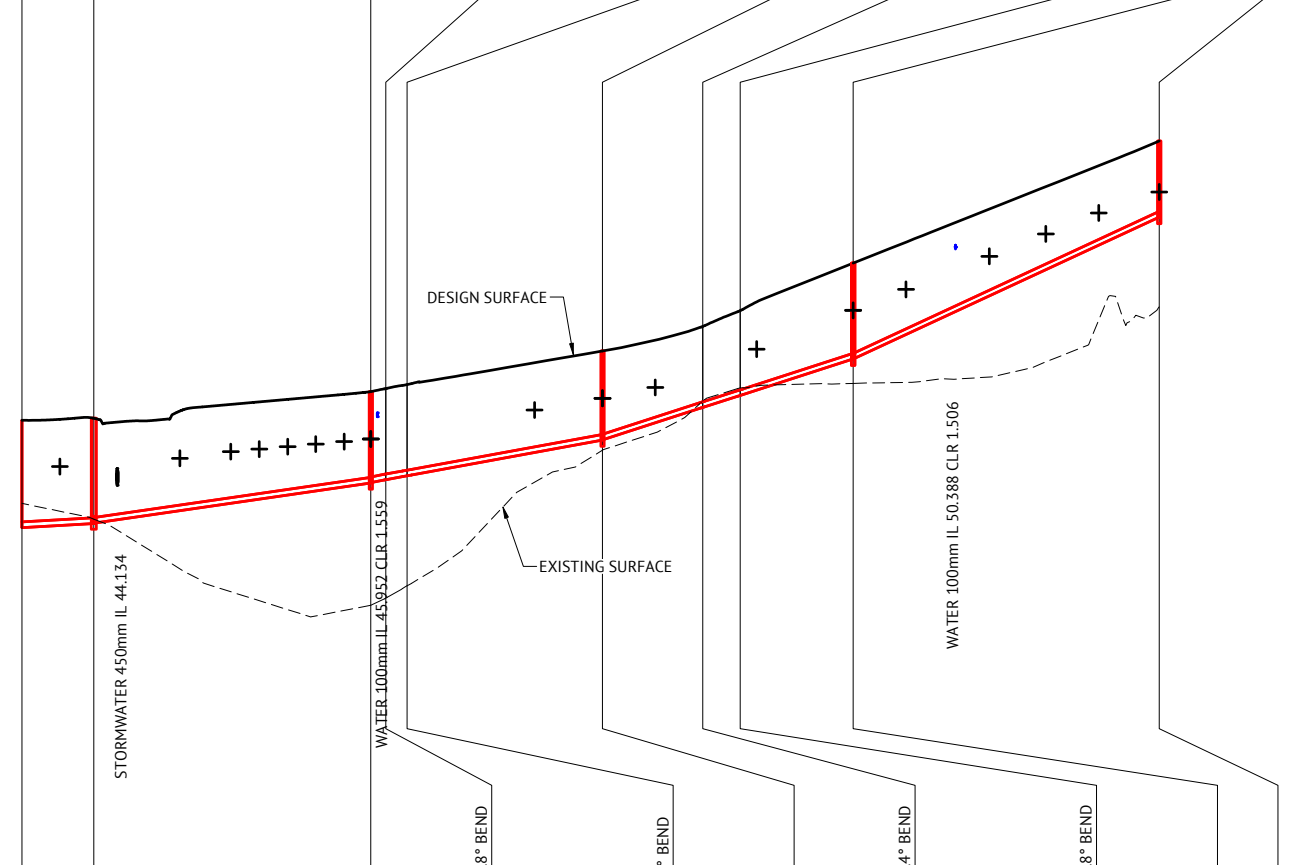
MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00
B	CONCRETE MANHOLE 1.20
C	CONCRETE MANHOLE 1.50
J	TYPE 'J' 1 MAINTENANCE SHAFT (DN300 SHAFT)
TE	TEMPORARY END
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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.



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	33.000														
PROPERTY DESCRIPTION	RR														
PIPE SIZE (mm), CLASS	DN150 uPVC SN8														
GRADE (1 IN X)	180	70	55	55	55	55	55	55	55	31	31	31	31	31	22
LENGTH	19.015	73.288	3.586	0.387	0.387	4.043	1.178	1.178	50.544	26.048	0.482	0.482	8.739	0.675	81.000
EMBEDMENT TYPE	TYPE 3														
DEPTH OF INVERT BELOW FSL	2.840	2.788	2.768	2.419	2.399	2.410	2.410	2.412	2.412	2.414	2.412	2.418	2.361	2.341	2.141
INVERT LEVEL (IL)	43.018	43.123	43.143	44.194	44.214	44.279	44.286	44.293	44.293	44.367	44.388	44.410	45.328	45.348	46.181
FINISHED SURFACE LEVEL (FSL)	45.858	45.911	45.911	46.613	46.689	46.689	46.696	46.705	46.705	46.780	46.800	46.827	47.689	48.322	48.322
EXISTING SURFACE LEVEL (ESL)	45.858	45.243	45.243	40.964	41.133	41.133	41.152	41.173	41.173	41.408	41.482	41.545	45.064	46.324	46.324
CHAINAGE (CH)	0.000	19.015	19.015	92.303	95.888	96.275	96.662	100.705	101.883	103.061	153.606	179.654	180.136	180.617	189.357

DATUM RL	34.000														
PROPERTY DESCRIPTION	RR														
PIPE SIZE (mm), CLASS	DN150 uPVC SN8														
GRADE (1 IN X)	28	28	28	28	28	28	22	22	22	22	22	22	22	22	22
LENGTH	5.715	0.785	0.785	3.344	0.393	0.393	19.908	62.792	0.133	0.133	9.699	1.067	1.067	5.935	
EMBEDMENT TYPE	TYPE 3														
DEPTH OF INVERT BELOW FSL	2.737	2.557	2.496	2.457	2.358	2.329	2.323	2.274	2.254	1.999	1.995	1.991	1.757	1.753	1.515
INVERT LEVEL (IL)	43.123	43.174	43.376	43.404	43.432	43.550	43.564	43.578	44.283	44.303	47.170	47.176	47.182	47.625	47.993
FINISHED SURFACE LEVEL (FSL)	45.911	45.913	45.900	45.889	45.888	45.894	45.901	46.557	46.557	49.169	49.172	49.174	49.382	49.407	49.508
EXISTING SURFACE LEVEL (ESL)	45.243	43.187	43.184	43.190	43.237	43.244	43.253	43.853	43.853	45.368	45.372	45.376	45.585	45.599	45.611
CHAINAGE (CH)	0.000	5.715	6.500	7.286	10.629	11.022	11.415	31.323	94.114	94.248	94.381	104.079	105.146	106.213	112.147

DATUM RL	33.000	
PROPERTY DESCRIPTION	RR	
PIPE SIZE (mm), CLASS	DN150 uPVC SN8	
GRADE (1 IN X)	139	22
LENGTH	11.623	40.500
EMBEDMENT TYPE	TYPE 3	
DEPTH OF INVERT BELOW FSL	2.274	2.077
INVERT LEVEL (IL)	44.283	46.279
FINISHED SURFACE LEVEL (FSL)	46.557	48.356
EXISTING SURFACE LEVEL (ESL)	43.853	44.559
CHAINAGE (CH)	0.000	52.123

LINE 6

LINE 10

LINE 11

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
24/04/2023	B	AMENDED PROPERTY CONNECTION TYPES, AMENDED EMBEDMENT TYPE	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	KK PB
			REC APP

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 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 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 SEWERAGE LONG SECTIONS

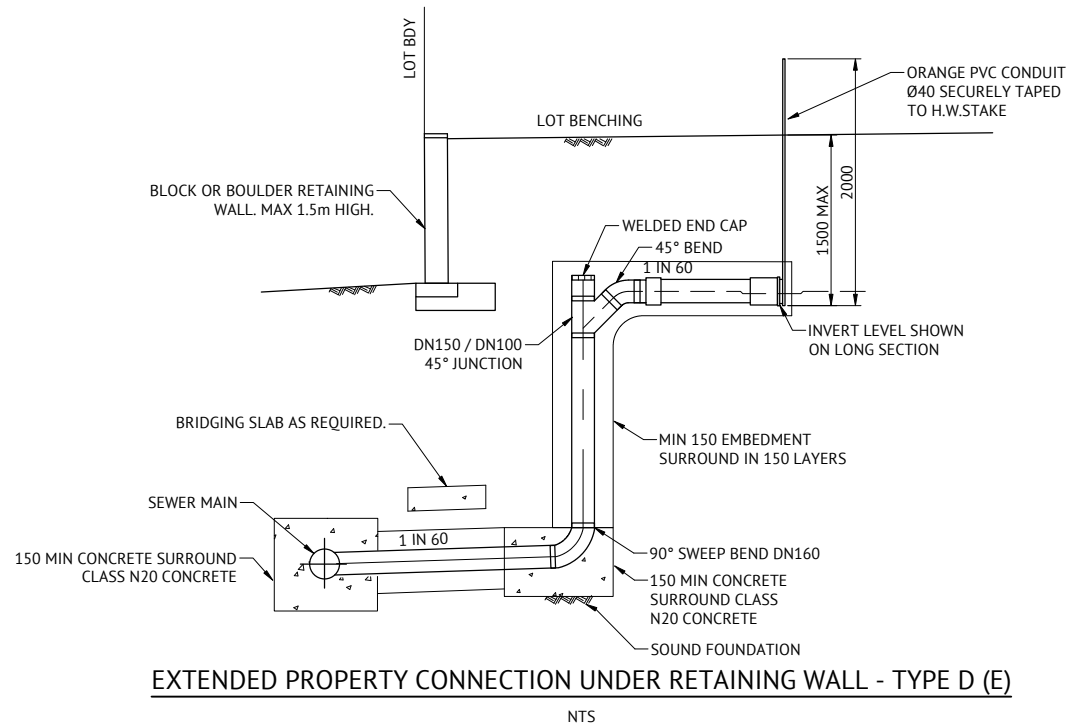
JOB CODE
 MIR-0906
 SHEET NUMBER
 C520
 REV
 B

LIVE SEWER WORKS

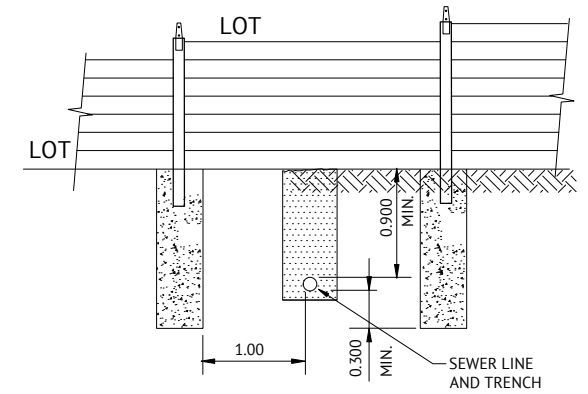
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/6, CONSTRUCTOR TO LAY NEW LINE 6. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/6	END	-	3277	45.858	45.858	43.018	2.840
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 6 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

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

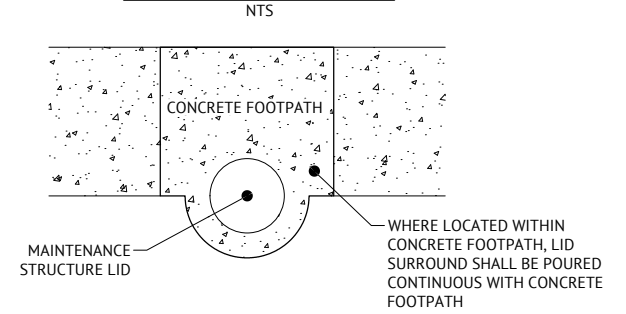
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE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



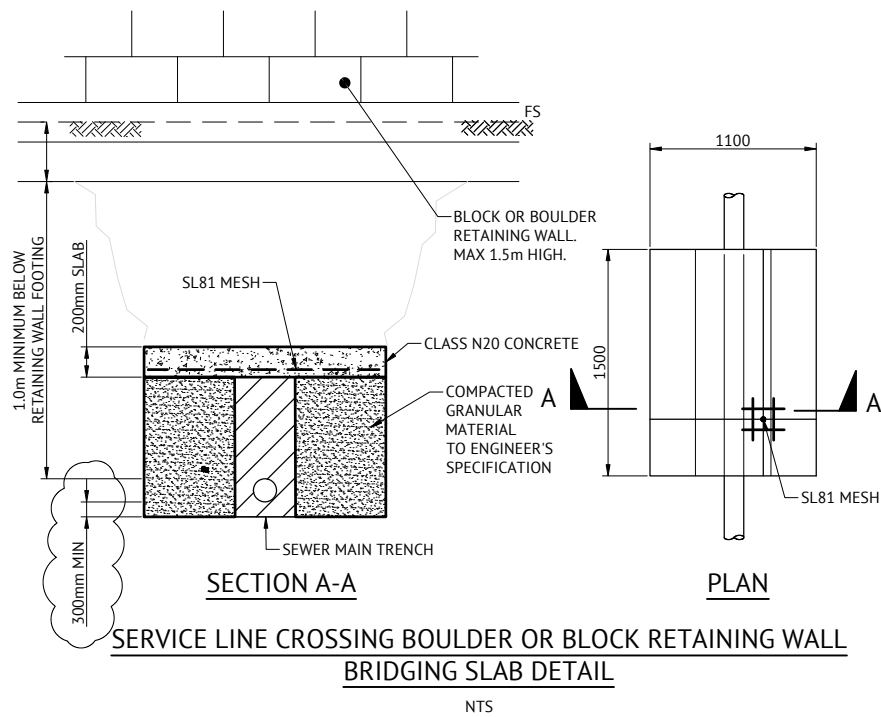
EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)



SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL



TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL



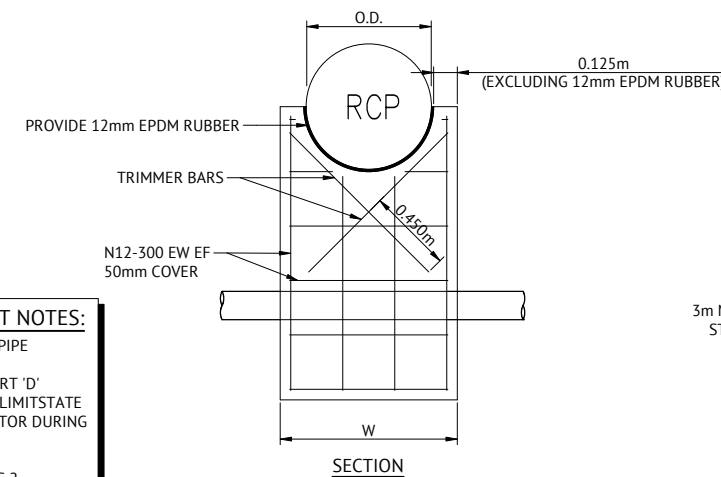
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

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

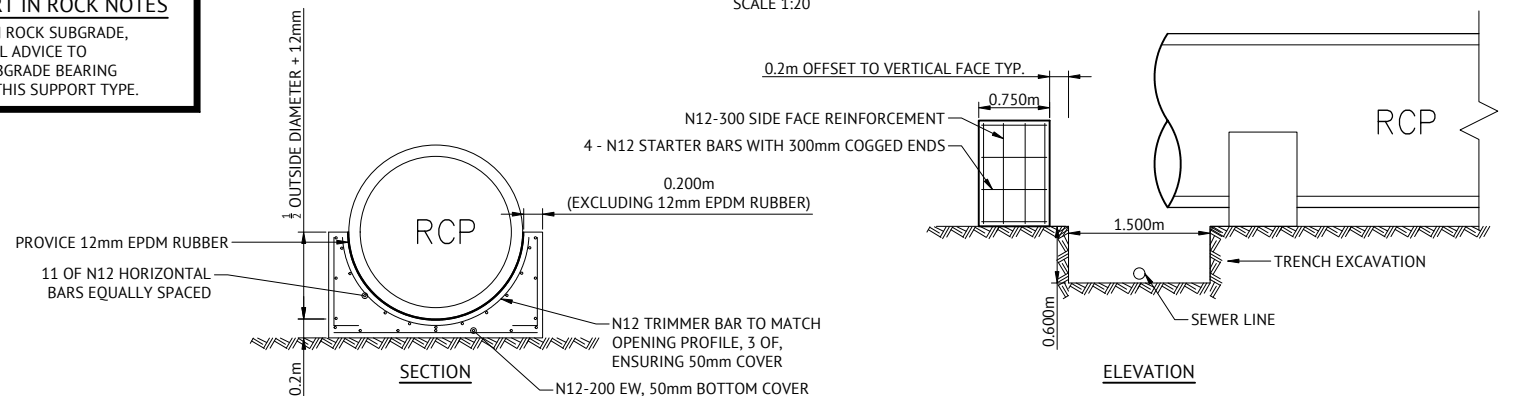
CONCRETE STORMWATER SUPPORT IN ROCK NOTES

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

STRUCTURAL DETAILS APPROVED DATE
R. Algate 24/04/2023
 RAMIL ALZATE RPEQ 19671

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	AMENDED DETAIL	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

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

SCALE
 NTS
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE NOTES AND DETAILS

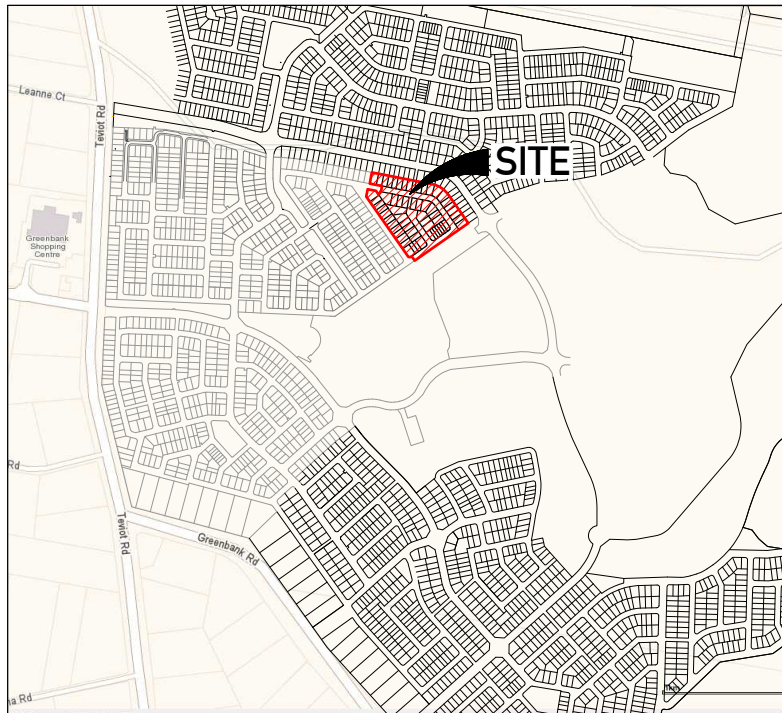
JOB CODE
MIR-0906
 SHEET NUMBER
C530
 REV
B

EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC QLD PTY LTD

WATER RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
 LOT 9 on S312355

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN
C620	WATER LIVE CONNECTION DETAILS

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
- CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
- ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH SEQ-SP'S ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP'S
- ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS, WHERE POSSIBLE
- CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
- ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128.
- CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
- CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2, PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND LCC STANDARDS.
- INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
- INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
- INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
- INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-1300-1 & 2.
- 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 CONTRACTOR IN ACCORDANCE WITH A VALID NETWORK ACCESS PERMIT UNDER LOGAN WATER SUPERVISION AT DEVELOPERS EXPENSE AT LOCATION MARKED.
- PRIOR TO ANY EXCAVATION, CONTRACTOR IS TO LOCATE ACTUAL POSITIONS OF PUBLIC SERVICE UTILITIES BY POT HOLES.
- UPON COMPLETION OF ALL WORKS, CONTRACTORS SHALL SUPPLY THE SUPERVISING RPEQ DETAILED 'AS CONSTRUCTED' INFORMATION OF THE WORK. 'AS CONSTRUCTED' INFORMATION SHALL COMPLY WITH CURRENT SEQ CODE OR LOCAL AUTHORITY STANDARDS FOR PLAN AND DIGITAL INFORMATION.
- CONTRACTOR IS TO BE RESPONSIBLE FOR ARRANGING ALL LOGAN WATER CONNECTIONS AND PAYMENTS OF CONNECTION FEES.

TRENCH SPOIL NOTE:

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

EXCAVATION IN ROCK NOTE:

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

INDEMNITY - EXISTING SERVICES

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

RPEQ CERTIFICATION

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

INSPECTION REQUIREMENTS

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

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

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

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

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

SEQ CODE STD DRAWING SCHEDULE

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



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

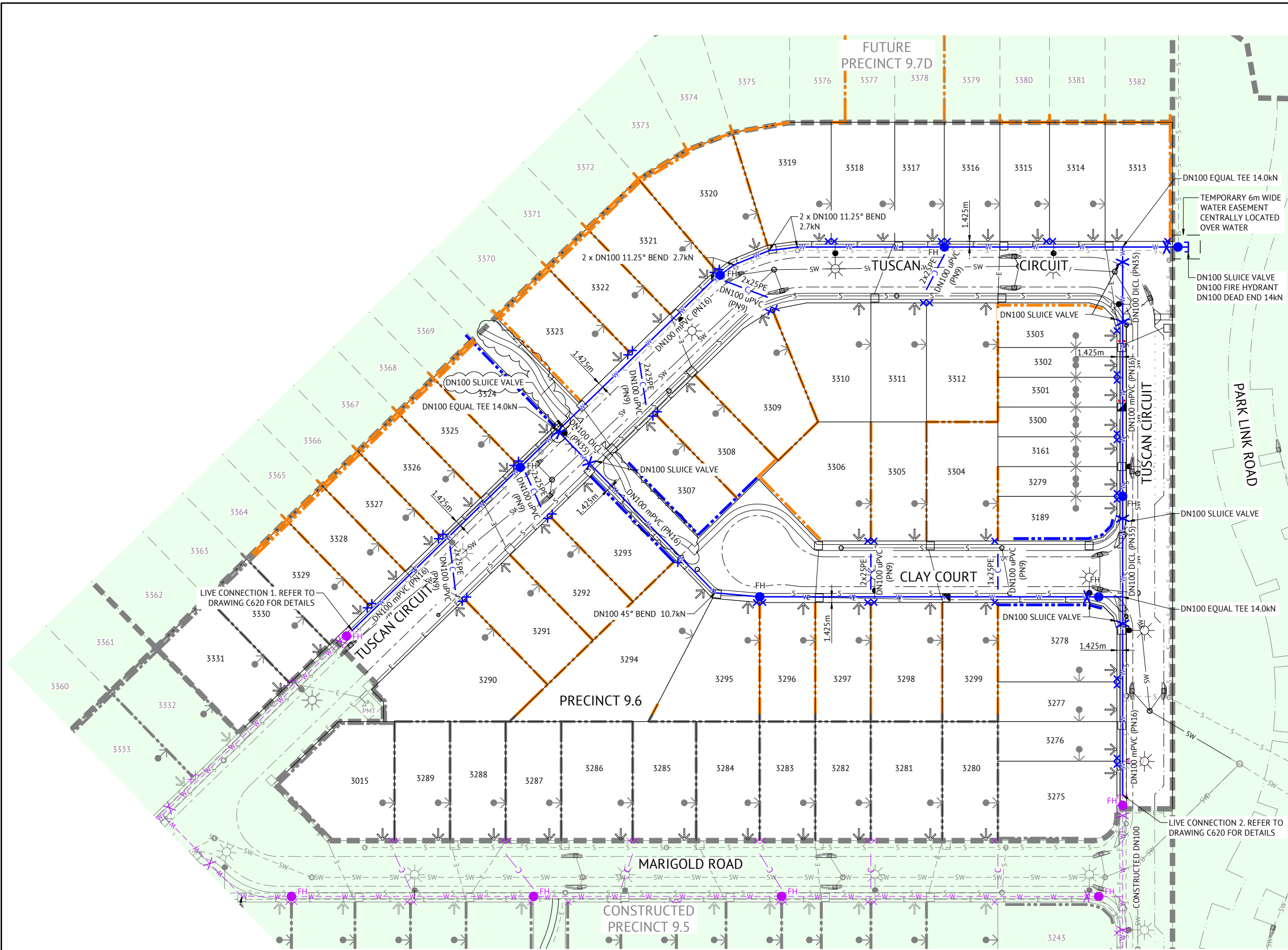
Premise
 BRISBANE OFFICE
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 BRISBANE, QLD 4000
 PH: (07) 3253 2222
 WEB: www.premise.com.au

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

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

CLIENT
 MIRVAC QLD PTY LTD
 PROJECT
 EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
 TEVIOT ROAD, GREENBANK
 SHEET TITLE
 WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE
 MIR-0906
 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
- GRAVITY SEWER
- ELECTRICAL
- 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
- ELECTRICAL
- PMT EXCLUSION ZONE

LOTS 3280-3289, 3015, 3330 AND 3331 METERS PROVIDED IN PRECINCT 9.5 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: _____ DATE: _____
 NAME OF SIGNATORY: _____
 RPEQ No. or LICENCE: _____
 COMPANY NAME: _____
 START DATE: _____

LAYOUT PLAN
SCALE 1:500

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	C	ADDED ELECTRICAL LINERWORKS AND FOOTPATH ALONG PEDESTRIAN LINK, AMENDED VALVE LOCATION	KK	PB
21/03/2022	B	UPDATED AS PER LCC RFI 17/03/2022	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

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

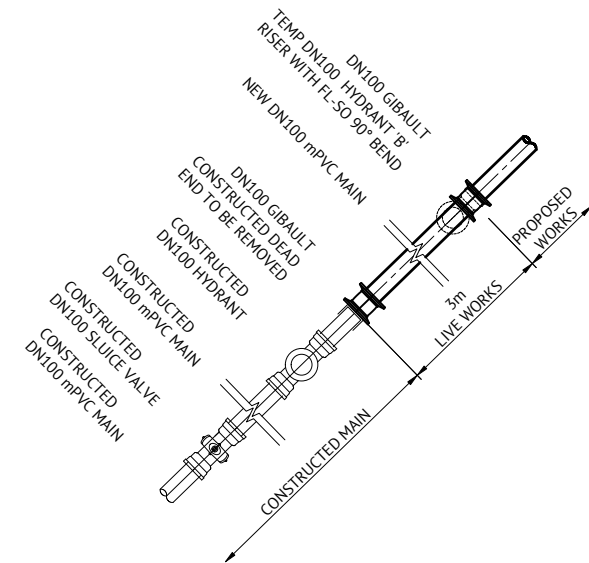
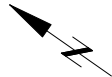
 PATRICK BRADY RPEQ 7112

SCALE

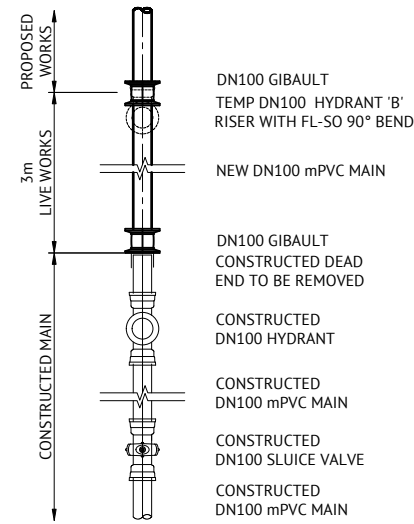
 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
WATER RETICULATION LAYOUT PLAN

JOB CODE
MIR-0906
 SHEET NUMBER
C610
 REV
C



LIVE CONNECTION 1 DETAIL
SCALE 1:25



LIVE CONNECTION 2 DETAIL
SCALE 1:25

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.

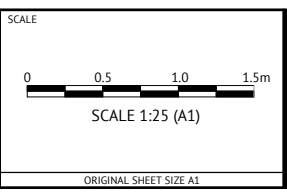
AS CONSTRUCTED DETAILS FOR AMEND.
 I CERTIFY THAT THE "AS CONSTRUCTED" DETAILS SHOWN ON THIS PLAN ARE TRUE AND ACCURATE RECORD OF THE WORKS
 SIGNED DATE:
 NAME of SIGNATORY
 RPEQ No. or LICENCE
 COMPANY NAME
 START DATE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

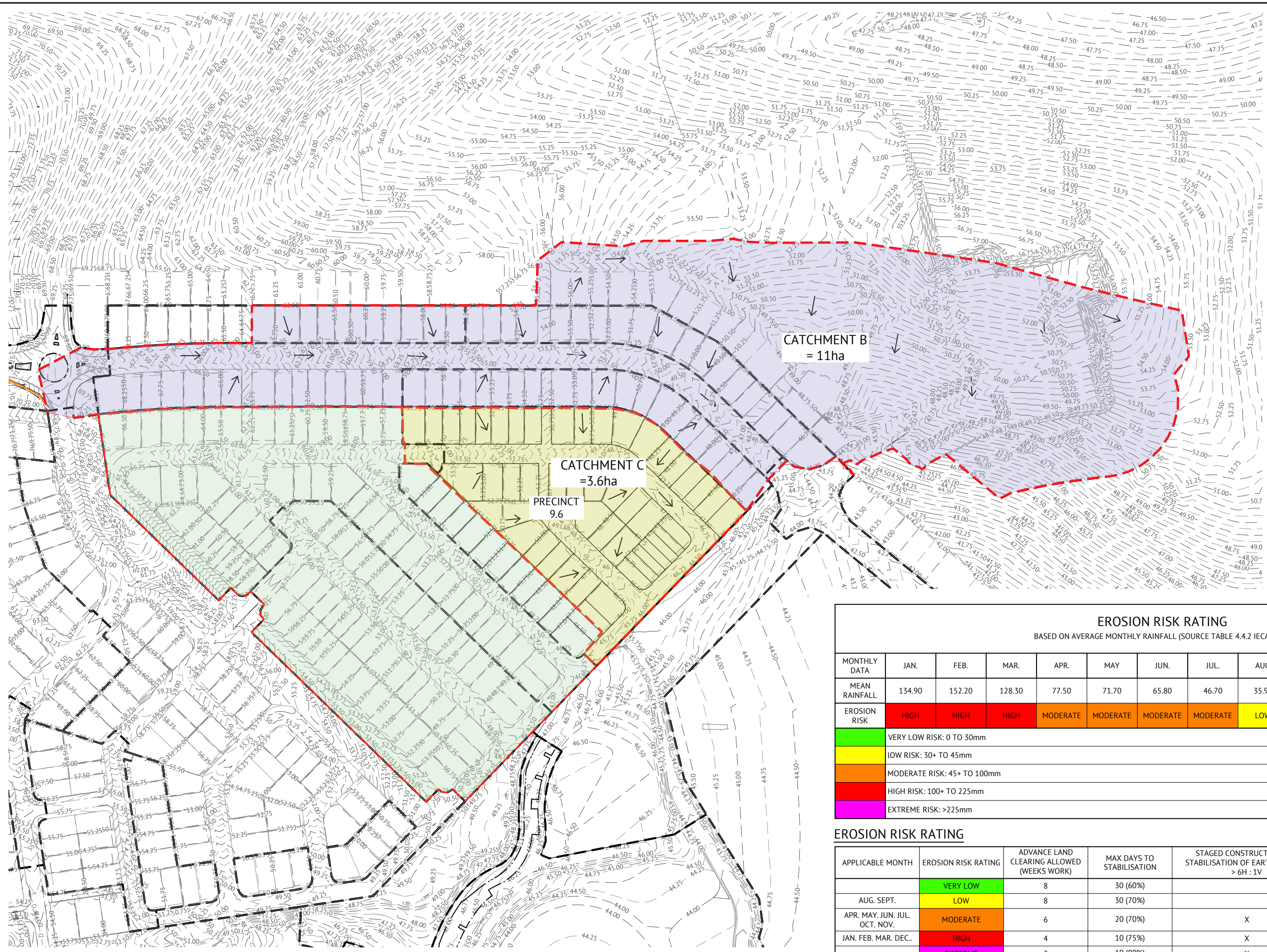
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 BRISBANE, QLD 4000
 PH: (07) 3253 2222
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ANDREW LANGDON
 PROJECT MANAGER
NICK SOMERVILLE
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112



CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
WATER LIVE CONNECTION DETAILS

JOB CODE
MIR-0906
 SHEET NUMBER
C620
 REV
B



LEGEND

- DISTURBED CATCHMENT (DRAINS TO BASIN 2)
- PRECINCT 9.6 DISTURBED CATCHMENT (DRAINS TO EXISTING BASIN)
- COMPLETED AREA WITH PERMANENT STORMWATER INSTALLED (BYPASSING BASINS)

NOTE:
 CLEARING TO PRECINCT 9.6 EXTENTS PREVIOUSLY COMPLETED AS PART OF PRIOR DEVELOPMENT STAGES. REFERENCE TO BE MADE TO PRECINCT 9.4 ESC DRAWINGS PRESENTING OVERALL ESC STRATEGY FOR CATCHMENTS COMPRISING PRECINCT 9.6.

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

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
 T. CLARK (CPESC #6089) *T. Clark*

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	134.90	152.20	128.30	77.50	71.70	65.80	46.70	35.90	34.30	78.90	97.80	125.7000
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												

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
24/04/2023	C	ISSUED FOR CONSTRUCTION		KK	PB
13/09/2022	B	LEGEND ADDED		DW	PB
31/03/2022	A	ISSUED FOR APPROVAL		KK	PB
				REC	APP

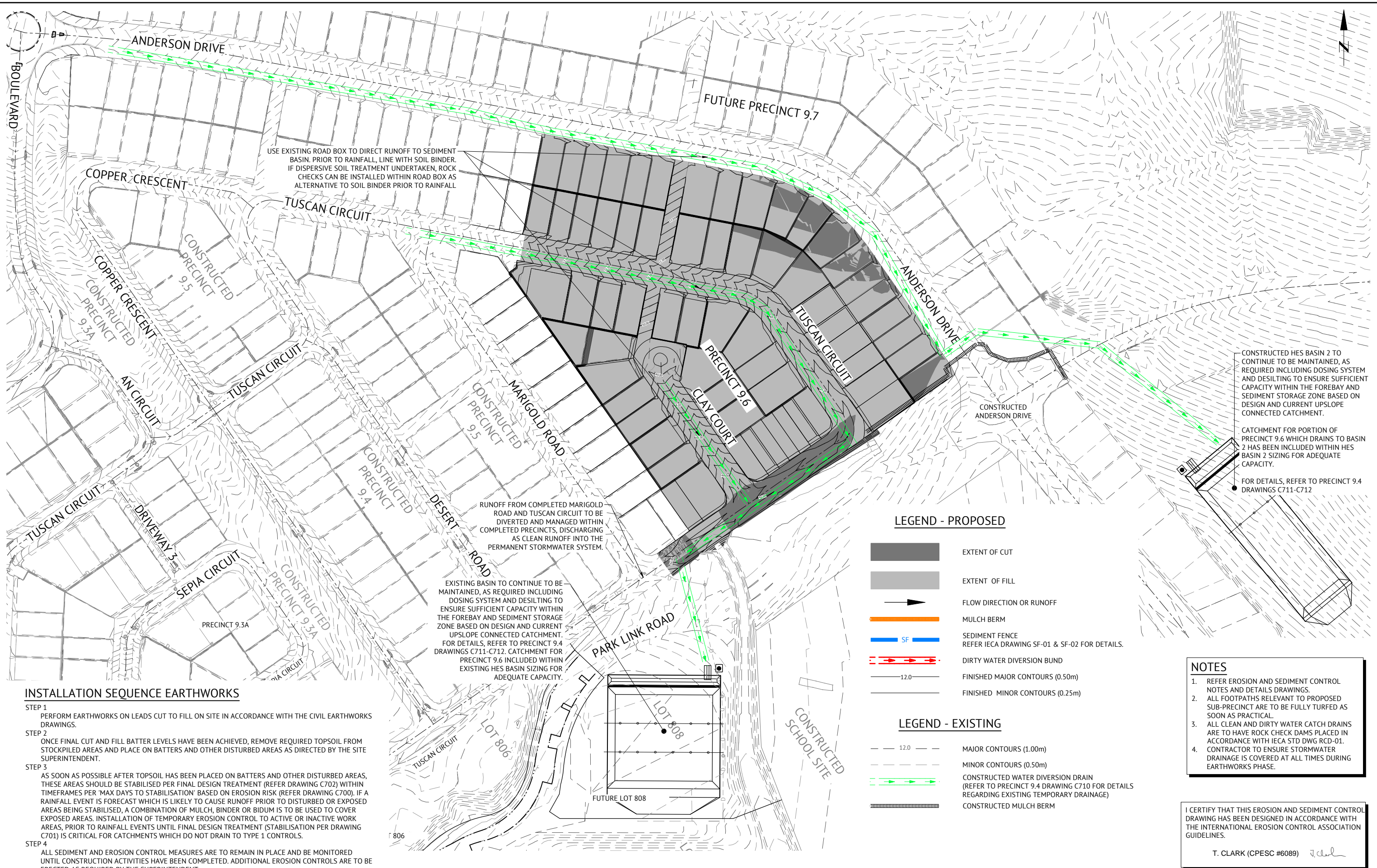
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NICK SOMERVILLE
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PATRICK BRADY RPEQ 7112

SCALE
 0 30 60 90m
 SCALE 1:1500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
OVERALL EROSION & SEDIMENT CONTROL KEY PLAN

JOB CODE
MIR-0906
 SHEET NUMBER
C700
 REV
C



USE EXISTING ROAD BOX TO DIRECT RUNOFF TO SEDIMENT BASIN. PRIOR TO RAINFALL, LINE WITH SOIL BINDER. IF DISPERSIVE SOIL TREATMENT UNDERTAKEN, ROCK CHECKS CAN BE INSTALLED WITHIN ROAD BOX AS ALTERNATIVE TO SOIL BINDER PRIOR TO RAINFALL

RUNOFF FROM COMPLETED MARIGOLD ROAD AND TUSCAN CIRCUIT TO BE DIVERTED AND MANAGED WITHIN COMPLETED PRECINCTS, DISCHARGING AS CLEAN RUNOFF INTO THE PERMANENT STORMWATER SYSTEM.

EXISTING BASIN TO CONTINUE TO BE MAINTAINED, AS REQUIRED INCLUDING DOSING SYSTEM AND DESILTING TO ENSURE SUFFICIENT CAPACITY WITHIN THE FOREBAY AND SEDIMENT STORAGE ZONE BASED ON DESIGN AND CURRENT UPSLOPE CONNECTED CATCHMENT. FOR DETAILS, REFER TO PRECINCT 9.4 DRAWINGS C711-C712. CATCHMENT FOR PRECINCT 9.6 INCLUDED WITHIN EXISTING HES BASIN SIZING FOR ADEQUATE CAPACITY.

CONSTRUCTED HES BASIN 2 TO CONTINUE TO BE MAINTAINED, AS REQUIRED INCLUDING DOSING SYSTEM AND DESILTING TO ENSURE SUFFICIENT CAPACITY WITHIN THE FOREBAY AND SEDIMENT STORAGE ZONE BASED ON DESIGN AND CURRENT UPSLOPE CONNECTED CATCHMENT.

CATCHMENT FOR PORTION OF PRECINCT 9.6 WHICH DRAINS TO BASIN 2 HAS BEEN INCLUDED WITHIN HES BASIN 2 SIZING FOR ADEQUATE CAPACITY.

FOR DETAILS, REFER TO PRECINCT 9.4 DRAWINGS C711-C712

LEGEND - PROPOSED

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

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- CONSTRUCTED WATER DIVERSION DRAIN (REFER TO PRECINCT 9.4 DRAWING C710 FOR DETAILS REGARDING EXISTING TEMPORARY DRAINAGE)
- CONSTRUCTED MULCH BERM

INSTALLATION SEQUENCE EARTHWORKS

- STEP 1**
PERFORM EARTHWORKS ON LEADS CUT TO FILL ON SITE IN ACCORDANCE WITH THE CIVIL EARTHWORKS DRAWINGS.
- STEP 2**
ONCE FINAL CUT AND FILL BATTER LEVELS HAVE BEEN ACHIEVED, REMOVE REQUIRED TOPSOIL FROM STOCKPILED AREAS AND PLACE ON BATTERS AND OTHER DISTURBED AREAS AS DIRECTED BY THE SITE SUPERINTENDENT.
- STEP 3**
AS SOON AS POSSIBLE AFTER TOPSOIL HAS BEEN PLACED ON BATTERS AND OTHER DISTURBED AREAS, THESE AREAS SHOULD BE STABILISED PER FINAL DESIGN TREATMENT (REFER DRAWING C702) WITHIN TIMEFRAMES PER 'MAX DAYS TO STABILISATION' BASED ON EROSION RISK (REFER DRAWING C700). IF A RAINFALL EVENT IS FORECAST WHICH IS LIKELY TO CAUSE RUNOFF PRIOR TO DISTURBED OR EXPOSED AREAS BEING STABILISED, A COMBINATION OF MULCH, BINDER OR BIDUM IS TO BE USED TO COVER EXPOSED AREAS. INSTALLATION OF TEMPORARY EROSION CONTROL TO ACTIVE OR INACTIVE WORK AREAS, PRIOR TO RAINFALL EVENTS UNTIL FINAL DESIGN TREATMENT (STABILISATION PER DRAWING C701) IS CRITICAL FOR CATCHMENTS WHICH DO NOT DRAIN TO TYPE 1 CONTROLS.
- STEP 4**
ALL SEDIMENT AND EROSION CONTROL MEASURES ARE TO REMAIN IN PLACE AND BE MONITORED UNTIL CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AS REQUIRED BY THE SUPERINTENDENT.

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

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
T. CLARK (CPESC #6089) *T. Clark*

FOR CONSTRUCTION				
DATE	REV	DESCRIPTION	REVISED BY	APP
24/04/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
13/09/2022	B	LEADER AND NOTE AMENDMENT	DW	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB
			REC	APP

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NICK SOMERVILLE
 PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:1000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
 PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
EROSION AND SEDIMENT CONTROL - EARTHWORKS PHASE

JOB CODE
MIR-0906
 SHEET NUMBER
C701
 REV
C



- LEGEND - PROPOSED**
- PROPOSED STORMWATER
 - 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING. APPLY BINDER IMMEDIATELY AFTER DRILL SEEDING
 - 100mm THICK TOPSOIL AND TURF
 - 50mm THICK TOPSOIL DRILL SEEDING. HYDROMULCH TO BE SPRAYED IMMEDIATELY AFTER
 - GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
 - FINISHED MAJOR CONTOURS (0.50m)
 - FINISHED MINOR CONTOURS (0.25m)
- LEGEND - EXISTING**
- MAJOR CONTOURS (1.00m)
 - MINOR CONTOURS (0.50m)

- 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 SEEDING AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
 4. FOR STABILISATION MEASURES OF FUTURE PRECINCTS, REFER TO MIR-0904 - C703 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE

TURFING AND TOPSOIL NOTE
 CONTRACTOR SHALL RESPREAD AMELIORATED TOPSOIL (AMELIORATION REQUIREMENTS AS DIRECTED BY SUPERINTENDENT) TO VERGES AT A THICKNESS OF 100mm. TURFING TO VERGES WITHIN PRECINCT 9.6 WORKS SHALL BE UNDERTAKEN BY THE CIVIL CONTRACTOR.

- 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 ERRECTED AND MONITORED 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 #6089) *T. Clark*

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
13/09/2022	B	NOTE AMENDMENT	DW	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB

REVISIONS

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CHECKED
ANDREW LANGDON

PROJECT MANAGER
NICK SOMERVILLE

PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:1000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD

PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT

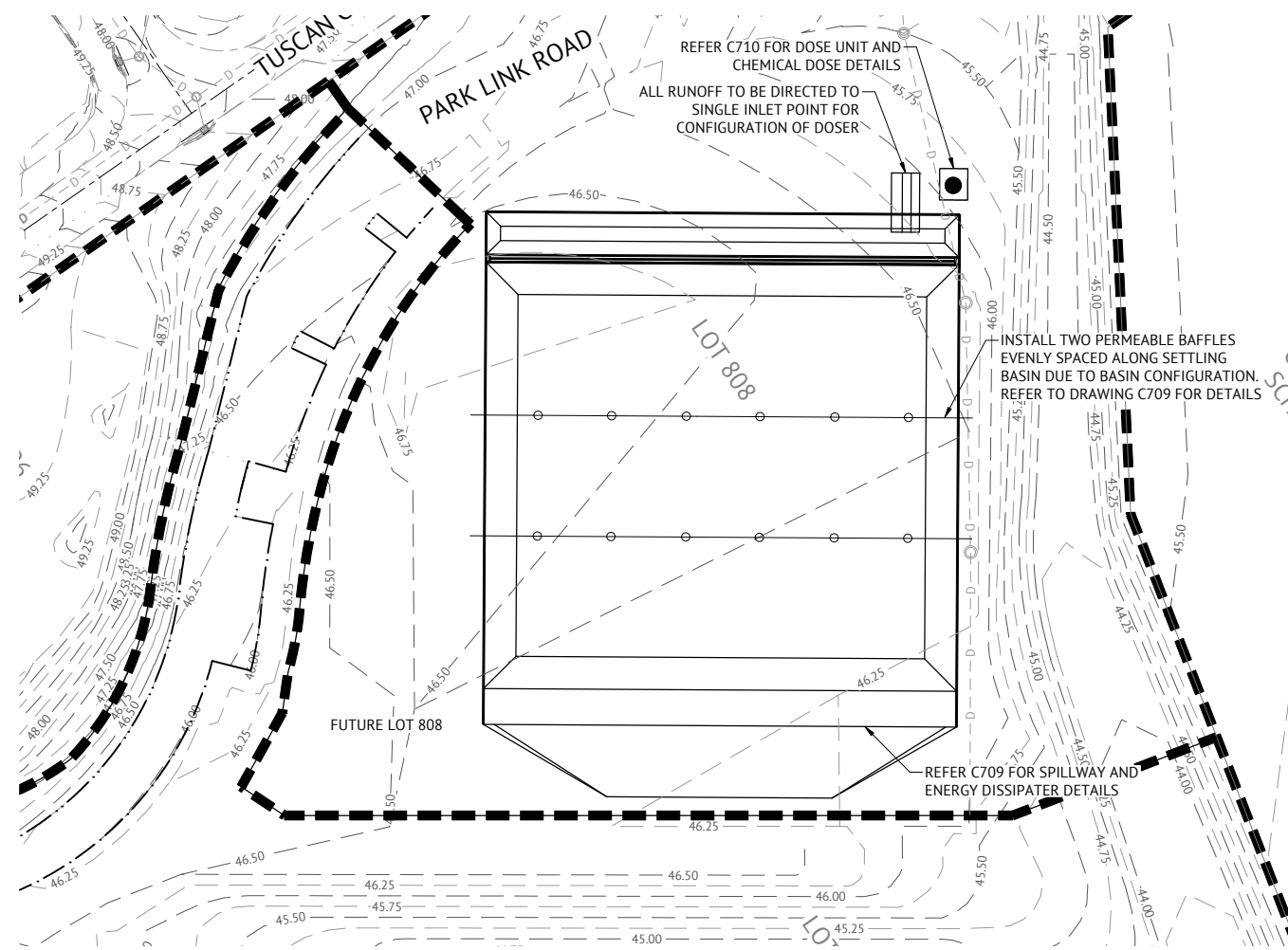
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE

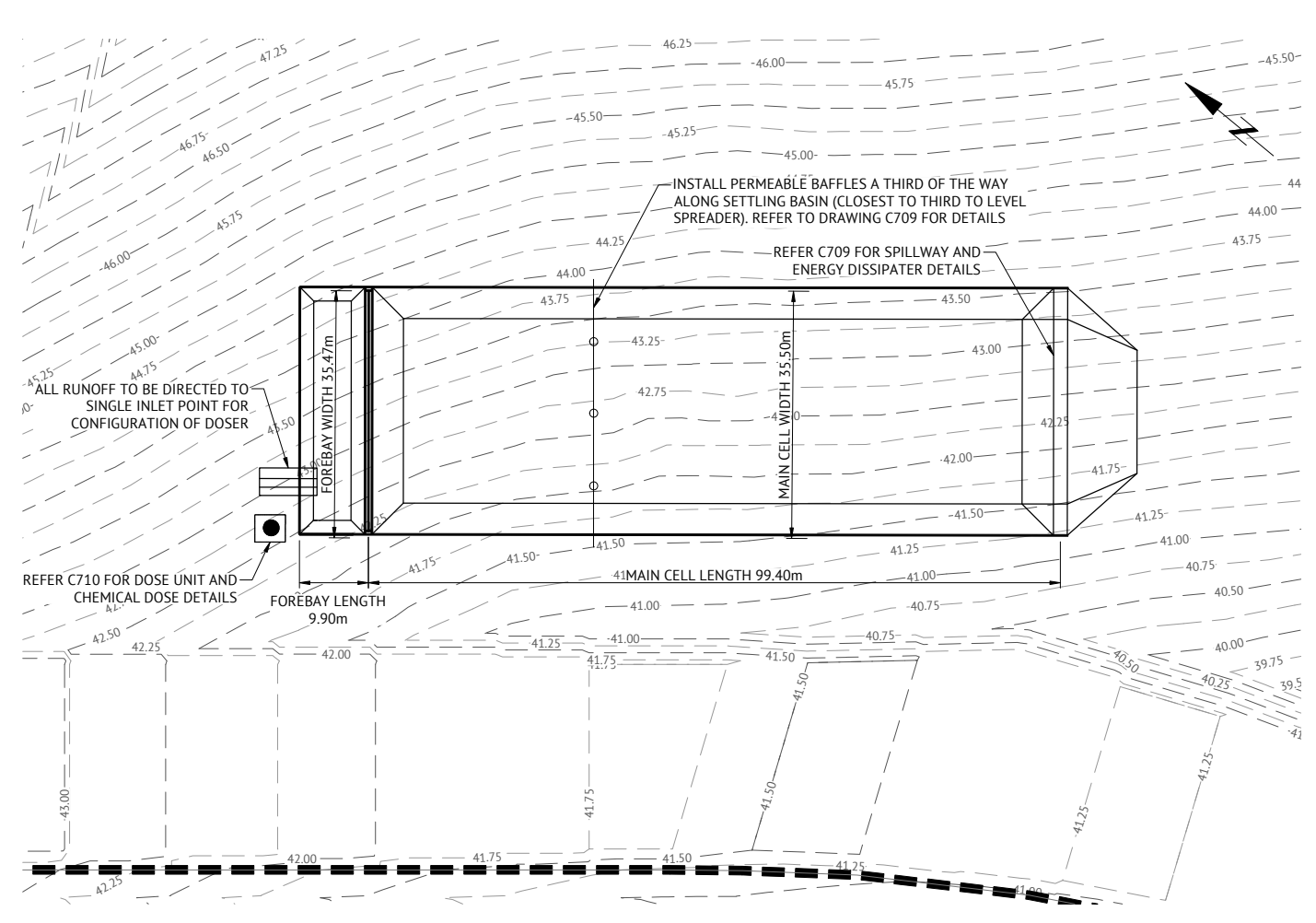
JOB CODE
MIR-0906

SHEET NUMBER
C702

REV
C



EXISTING HES BASIN



HES BASIN 2

I CERTIFY THAT THIS EROSION AND SEDIMENT CONTROL DRAWING HAS BEEN DESIGNED IN ACCORDANCE WITH THE INTERNATIONAL EROSION CONTROL ASSOCIATION GUIDELINES.
T. CLARK (CPESC #6089)

HES BASIN SIZING DETAILS (AS PER PRECINCT 9.4 DRAWINGS C711-C712)

BASIN ID	DESIGN PARAMETER						SETTLING ZONE (INCLUDING SEDIMENT STORAGE)				FOREBAY				HYDRAULIC CONTROLS			
	CATCHMENT AREA	SETTLING DEPTH D _s	C ₁	TIME OF CONC	I ₁	FLOC SETTLE DEPTH D _f	VOLUME	LENGTH	WIDTH	DEPTH (AT SPILLWAY)	VOLUME	LENGTH	WIDTH	DEPTH	SPILLWAY CREST BASE WIDTH	SPILLWAY CREST	EMBANKMENT	LEVEL SPREADER CREST
	HA	m		MIN	MM/HR	m	(m ³)	(m)	(m)	(m)	(m ³)	(m)	(m)	(m)	(m)	RL	RL	RL
HES BASIN 2	9.97	1.00	0.56	16.00	70.00	0.60	3796.00	99.40	35.50	1.50	351.45	9.90	35.50	1.00	20.00	43.30	43.80	43.50
EXISTING	16.50	1.00	0.56	25.00	58.00	0.60	5233.00	65.00	66.00	1.50	429.00	6.50	66.00	1.00	20.00	44.15	45.05	44.45

NOTE:
1. JAR TESTING USING REPRESENTATIVE SITE SOILS HAS BEEN UNDERTAKEN (REFER DRAWING C710). JAR TESTING CONFIRMS A SETTLEMENT RATE OF 150mm IN 15 MINUTES IS ACHIEVABLE USING THE NOMINATED ACH COAGULANT AT A DOSE RATE OF 100ppm. BASIN DESIGN HAS ADOPTED AN EQUIVALENT SETTLEMENT RATE IN SIZING.
2. SCOUR VELOCITY CALCULATED THROUGH BASINS MAY EXCEED NOMINAL 0.015m/s VELOCITY PER DESIGN PROCEDURE (OPTION 2B WITHIN IECA, 2018). RECOMMENDED THAT PERMEABLE BAFFLES BE INSTALLED IN BASIN AND REGULAR MONITORING BE UNDERTAKEN TO VERIFY PERFORMANCE.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
13/09/2022	B	AMENDED HES BASIN SIZING DETAILS TABLE, ADDED NOTES TO BASINS	KK	PB
31/03/2022	A	ISSUED FOR APPROVAL	DW	PB

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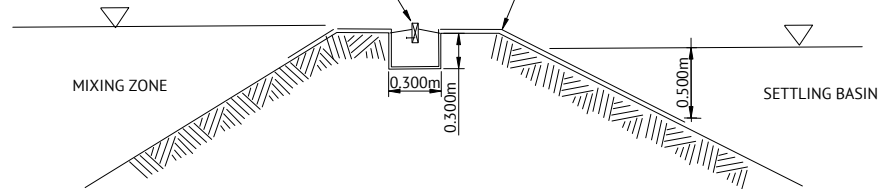
SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 4

JOB CODE
MIR-0906
SHEET NUMBER
C708
REV
C

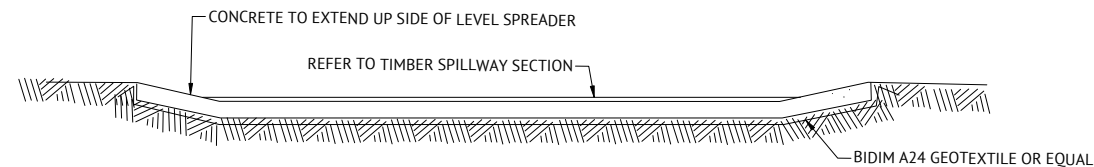
100x25mm TIMBER EMBEDDED INTO CONCRETE BEAM. TIMBER TO BE AT LEAST 30mm PROUD OF CONCRETE WITH NAILS AT 1.2m CENTRES WITH AT LEAST 25mm EXPOSED TO PREVENT LIFTING.

PLACE BIDIM A24 GEOTEXTILE OR EQUAL UNDER CONCRETE AND DOWN BATTER TO MINIMUM 500mm BELOW THE LOWER OF PERMANENT WATER LEVEL OR OUTLET SPILLWAY CREST. DEPENDING ON SOIL PROPERTIES, BLACK PLASTIC OR CONCRETE MAY BE REQUIRED TO MINIMISE SCOUR POTENTIAL



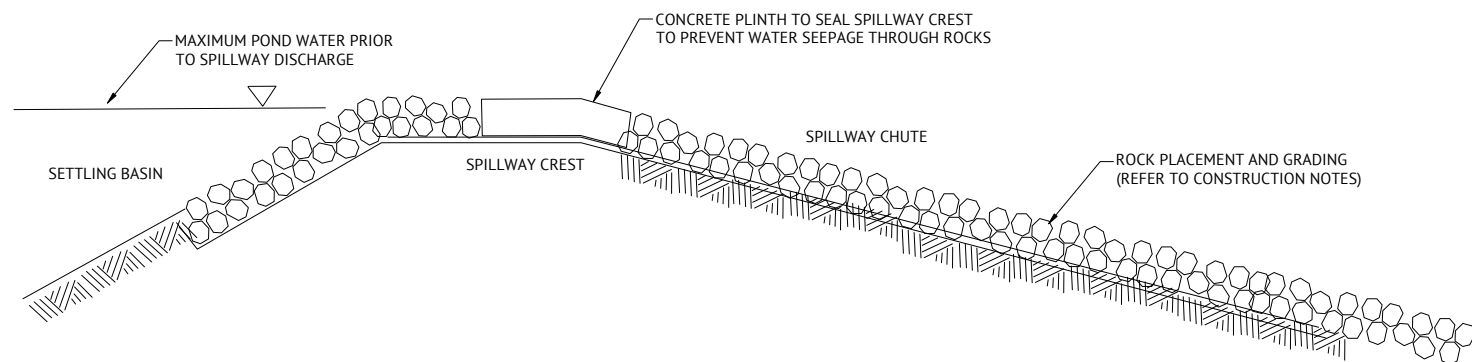
LEVEL SPREADER DETAILS - TYPICAL CROSS SECTION

N.T.S.



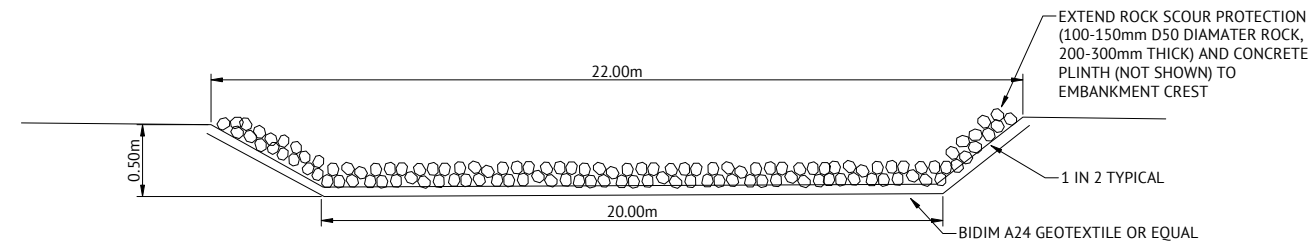
LEVEL SPREADER DETAILS - TYPICAL LONG SECTION

N.T.S.



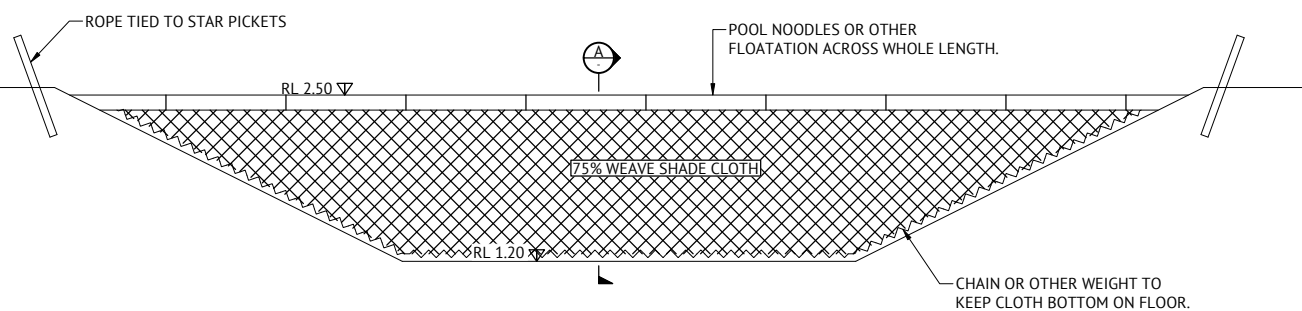
OUTLET SPILLWAY DETAILS - TYPICAL CROSS SECTION

N.T.S.



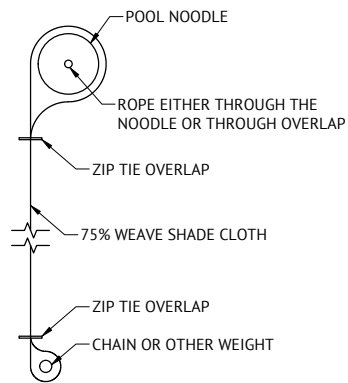
OUTLET SPILLWAY DETAILS - TYPICAL LONG SECTION

N.T.S.

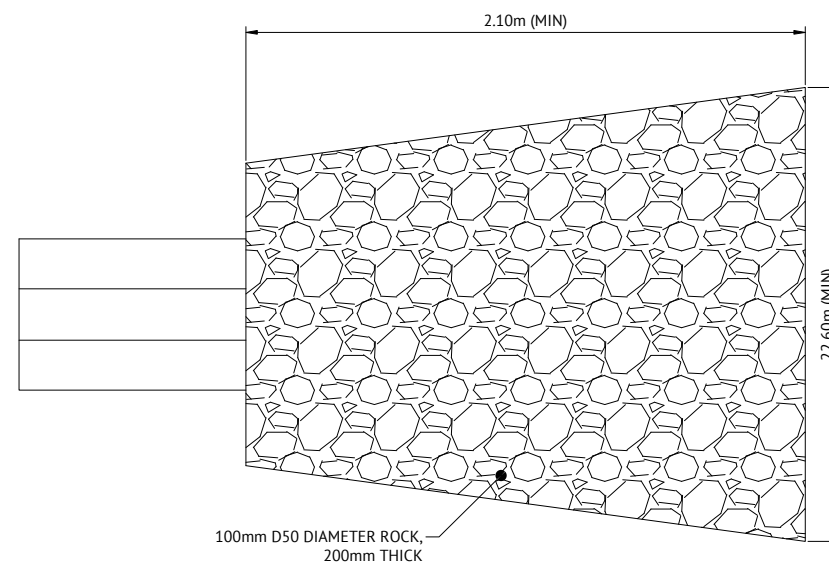


PERMEABLE Baffle SECTION

N.T.S.



A SECTION
SCALE N.T.S.



ENERGY DISSIPATER DETAILS - TYPICAL LAYOUT

N.T.S.

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T. CLARK (CPESC #6089) *T. Clark*

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
24/04/2023	C	ISSUED FOR CONSTRUCTION	KK PB
13/09/2022	B	ADDED ENERGY DISSIPATER DETAILS AND SPILLWAY DIMENSIONS	KK PB
31/03/2022	A	ISSUED FOR APPROVAL	DW PB
			REC APP



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PROJECT DIRECTOR
Patrick Brady
PATRICK BRADY RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC QLD PTY LTD
PROJECT
EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 4

JOB CODE
MIR-0906
SHEET NUMBER
C709
REV
C

EROSION & SEDIMENT CONTROL NOTES

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

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

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

AUTO DOSER

- DOSER AND SUPPLY OF FLOCCULANT TO BE PROVIDED ON LEVEL PAD 4m x 4m WITHIN 10m OF DOSING POINT.
- ALL-WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
- FLOCCULANT PROVIDED AS TURBICLEAR (ahc). IF ALTERNATIVE FLOCCULANT USED THEN THE BASIN SIZE IS TO BE INCREASED ACCORDING TO JAR SETTLEMENT TEST (REFER TO TABLE BELOW).
- JAR TESTING UNDERTAKEN BY TURBID WITH REPRESENTATIVE SOIL SAMPLES COMPOSITED OVER THE SUBJECT AREA USED. BASED ON JAR TESTING A DOSE RATE OF 100PPM (100L OF ACH PER 1ML OF BASIN STORAGE VOLUME) IS TO BE ADOPTED. NOMINATED ACH COAGULANT IS TURBICLEAR. IF ALTERNATIVE PRODUCT/S USED THAN JAR TESTING TO BE VERIFIED.
- GIVEN THE CATCHMENT AREA AND DYNAMIC NATURE OF THE SITE IT IS RECOMMENDED THAT A FLOW BASED AUTOMATED DOSER BE INSTALLED AT THE INLET TO THE FOREBAY.
- A WELL CONSTRUCTED AND DEFINED OPEN CHANNEL OR PIPE WILL BE REQUIRED TO ACHIEVE EFFECTIVE AND ACCURATE FLOW DEPTH RECORDING BY THE DOSE UNIT. A STILLING POND UPSLOPE OF THE INLET TO THE OPEN CHANNEL OR PIPE IS RECOMMENDED TO IMPROVE ACCURACY AND PERFORMANCE OF THE SYSTEM.
- ALL WEATHER ACCESS TRACK TO BE PROVIDED TO DOSER.
- THE DOSE UNIT SUPPLIER SHOULD BE CONTACTED TO DISCUSS SETUP AND INSTALLATION REQUIREMENTS.

JAR SETTLEMENT AFTER 15 MINUTES	MULTIPLICATION FACTOR TO SETTLING ZONE
(mm)	VOLUME
50	x3
75	x2
100	x1.5
150	x1

OPERATIONAL PROCEDURES

IT IS PROPOSED THAT STORMWATER RUNOFF COLLECTED BY THE SEDIMENT BASINS BE RE-USED ON SITE AS PART CIVIL CONSTRUCTION OPERATIONS. HOWEVER, IF IT IS REQUIRED TO RELEASE COLLECTED RUNOFF INTO DOWNSTREAM OFFSITE SYSTEMS, THE REQUIRED WATER QUALITY IS TO BE MET. TABLE 5 BELOW DETAILS RECOMMENDED WATER QUALITY STANDARDS FOR DISCHARGE OF WET BASINS.







RECOMMENDED DISCHARGE STANDARD FOR DEWATERING OPERATIONS.	
SITE CONDITIONS	DISCHARGE WATER QUALITY STANDARD
POST-STORM DEWATERING OF WET SEDIMENT BASINS	90 PERCENTILE TOTAL SUSPENDED SOLIDS (TSS) CONCENTRATION NOT EXCEEDING 50mg/L pH 6.5 TP 8.5

SEDIMENT BASIN MAINTENANCE

- SEDIMENT BASINS SHOULD BE INSPECTED DURING THE FOLLOWING PERIODS:
 - DURING CONSTRUCTION TO DETERMINE WHETHER MACHINERY OR CONSTRUCTION ACTIVITIES HAVE DAMAGED ANY COMPONENTS OF THE SEDIMENT BASIN. IF DAMAGE HAS OCCURRED, FIX IT;
 - AFTER EACH RUNOFF EVENT. INSPECT THE EROSION DAMAGE AT FLOW ENTRY AND EXIT POINTS;
 - AT LEAST WEEKLY DURING THE WET SEASON AND THEN FORTNIGHTLY AFTER THAT;
 - PRIOR TO, AND IMMEDIATELY AFTER, PERIODS OF "STOP WORK" OR SITE SHUT DOWN.
- CLEAN OUT ACCUMULATED SEDIMENT WHEN IT REACHES THE MARKER BOARD/POST, AND RESTORE THE ORIGINAL STORAGE VOLUME. PLACE SEDIMENT IN A DISPOSAL AREA OR IF APPROPRIATE MIX WITH DRY SOIL ON SITE.
- DO NOT DISPOSE OF SEDIMENT IN A MANNER THAT WILL CREATE AN EROSION OR POLLUTION HAZARD.
- CHECK ALL VISIBLE PIPE CONNECTIONS FOR LEAKS, AND REPAIR AS NECESSARY.
- CHECK FILL MATERIAL IN THE DAM FOR EXCESSIVE SETTLEMENT, SLUMPING OF THE SLOPES OR PIPING BETWEEN THE CONDUIT AND THE EMBANKMENT, MAKE ALL NECESSARY REPAIRS.
- REMOVE ALL TRASH AND OTHER DEBRIS FROM THE BASIN AND RISER.
- SUBMERGE INFLOW PIPES MUST BE INSPECTED AND DE-SILTED (AS REQUIRED) AFTER EACH

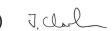
SEDIMENT BASIN REMOVAL

- WHEN GRADING AND CONSTRUCTION IN THE DRAINAGE AREA ABOVE A TEMPORARY SEDIMENT BASIN IS COMPLETED AND THE DISTURBED AREAS ARE ADEQUATELY STABILISED, THE BASIN MUST BE REMOVED. SEDIMENT SHOULD BE CLEARED AND PROPERLY DISPOSED OF AND THE BASIN AREA STABILISED.
- BEFORE STARTING ANY MAINTENANCE WORK ON THE BASIN, INSTALL ALL NECESSARY SHORT TERM SEDIMENT CONTROL MEASURES DOWNSTREAM OF THE SEDIMENT BASIN.
- ALL WATER AND SEDIMENT MUST BE REMOVED FROM THE BASIN. DISPOSE OF SEDIMENT AND WATER IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.
- BRING THE DISTURBED BASIN AREAS TO A PROPER GRADE, THEN SMOOTH, COMPACT, AND STABILISE AND/OR REVEGETATE AS REQUIRED TO ESTABLISH A STABLE LAND SURFACE.

JAR TEST RESULTS (DOSING CHEMICAL: TURBICLEAR ACH)						
DOSE RATE (ml/L)	0.00 CONTROL	0.04	0.06	0.08	0.10	0.12
CLARITY ACHIEVED AFTER 5 MINS	481	199	87.4	61.5	58.5	37.2
CLARITY ACHIEVED AFTER 15 MINS	458	84.8	65.5	54.5	39.8	34.2
CLARITY ACHIEVED AFTER 30 MINS	385	68.2	56.9	42.3	30.9	26.7
CLARITY ACHIEVED AFTER 60 MINS	307	53.0	41.1	26.5	17.3	15.6
FINAL pH	7.4	7.4	7.3	7.3	7.3	7.3
FINAL TURBIDITY	307	53	56	26	17	15
FINAL TEST RESULT						

NOTE: STARTING pH = 7.4 STARTING TURBIDITY = 930

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T. CLARK (CPESC #6089) 

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
24/04/2023	C	ISSUED FOR CONSTRUCTION	KK	PB
13/09/2022	B	JAR TEST RESULT AND BASIN NOTE ADDED	DW	PB
31/03/2022	A	ISSUED FOR APPROVAL	KK	PB



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NICK SOMERVILLE
PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112

SCALE
NTS

ORIGINAL SHEET SIZE A1

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LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 3 OF 4

JOB CODE
MIR-0906
SHEET NUMBER
C710
REV
C

ROLES AND RESPONSIBILITIES

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 AND 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 FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.

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T. CLARK (CPESC #6089) *T. Clark*

FOR CONSTRUCTION				<p>BRISBANE OFFICE LEVEL 11, 300 ADELAIDE STREET BRISBANE, QLD 4000 PH: (07) 3253 2222 WEB: www.premise.com.au</p>	DESIGNED DONNY WANG	SCALE NTS	CLIENT MIRVAC QLD PTY LTD		JOB CODE MIR-0906
24/04/2023	B	ISSUED FOR CONSTRUCTION	KK		PB		PROJECT EVERLEIGH PRECINCT 9.6 SUBDIVISION DEVELOPMENT	LOCATION TEVIOT ROAD, GREENBANK	
31/03/2022	A	ISSUED FOR APPROVAL	DW	PB	CHECKED ANDREW LANGDON	SHEET TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 4 OF 4			
DATE	REV	DESCRIPTION	REC	APP	PROJECT MANAGER NICK SOMERVILLE				
				PROJECT DIRECTOR <i>Patrick Brady</i> PATRICK BRADY	PROJECT DIRECTOR NICK SOMERVILLE				
				REVISIONS	RPEQ 7112				
				ORIGINAL SHEET SIZE A1					