

EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC GROUP

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
C200	BULK EARTHWORKS LAYOUT - SHEET 1
C202	BULK EARTHWORKS LAYOUT - SHEET 2
C210	BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2
C211	BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2
C300	ROADWORKS NOTES AND DETAILS
C310	SPRING STREET LONG & CROSS SECTIONS
C311	TUSCAN CIRCUIT LONGITUDINAL SECTION
C312	TUSCAN CIRCUIT CROSS SECTIONS
C330	INTERSECTION DETAILS LAYOUT
C340	PAVEMENT MARKINGS AND SIGNAGE LAYOUT
C400	STORMWATER CATCHMENT LAYOUT
C410	STORMWATER DRAINAGE LONG SECTIONS
C420	STORMWATER DRAINAGE NOTES AND DETAILS
C440	STORMWATER CALCULATIONS 39% AEP STORM
C441	STORMWATER CALCULATIONS 1% AEP STORM
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C520	SEWERAGE LONG SECTIONS
C530	SEWERAGE NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN
C700	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE - SHEET 1
C701	EROSION AND SEDIMENT CONTROL - STABILISATION PHASE - SHEET 2
C710	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2
C711	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2
C900	TEMPORARY WORKS - ROADWORKS AND DRAINAGE

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.
- PROOF ROLLING NOMINATED SHALL BE CARRIED OUT USING A SINGLE AXLE HIGHWAY TRUCK WITH A REAR AXLE LOAD NOT LESS THAN 10 TONNES AND TYRES INFLATED TO 550kPa OR APPROVED EQUIVALENT. EQUIPMENT LABOUR AND LOADING REQUIRED FOR PROOF ROLLING IS TO BE PROVIDED BY THE CONTRACTOR.
- 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.

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

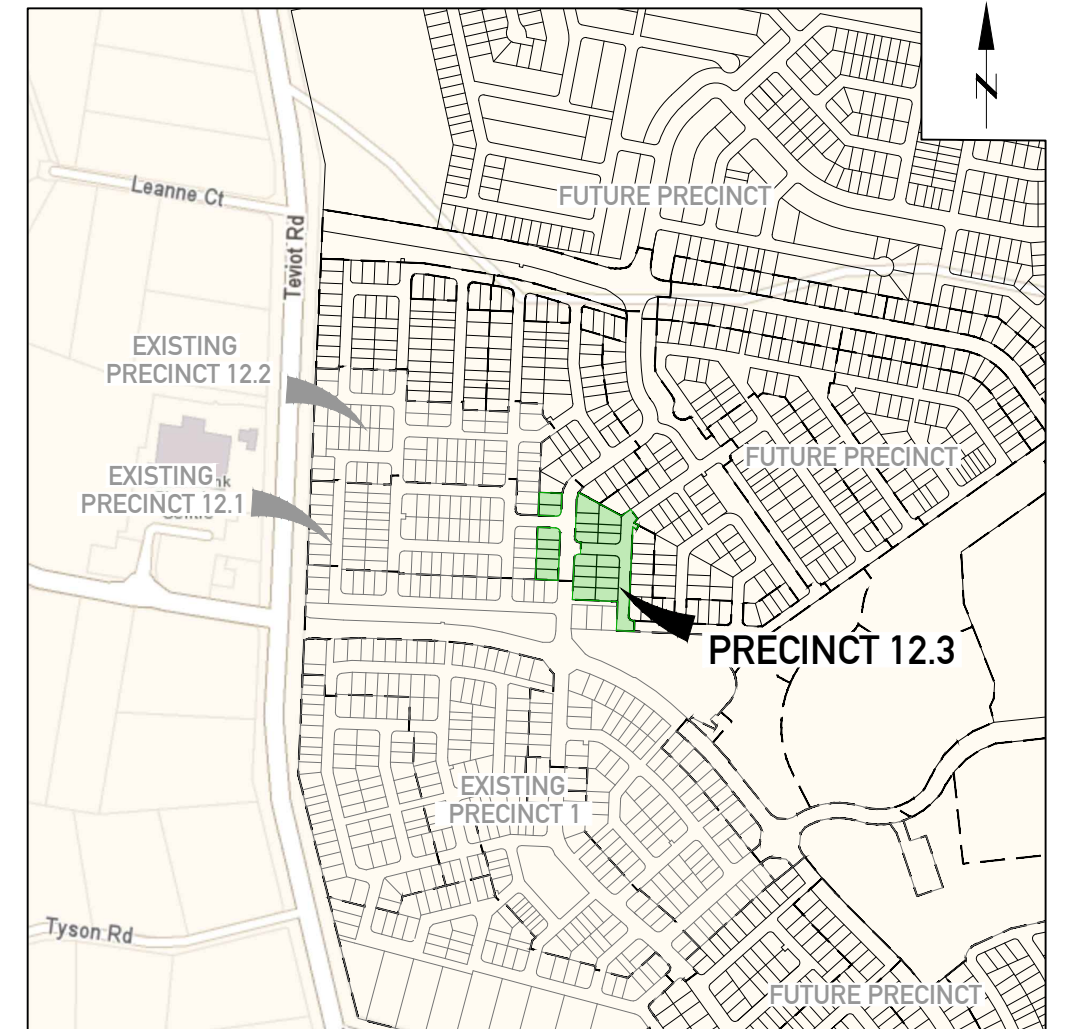
- NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
- THE CONTRACTOR IS RESPONSIBLE 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



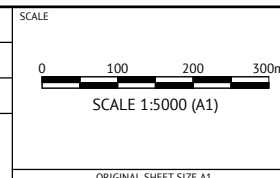
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
05/02/2021	B	AMENDED SHEET LIST TABLE	KK	PB
20/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC	APP

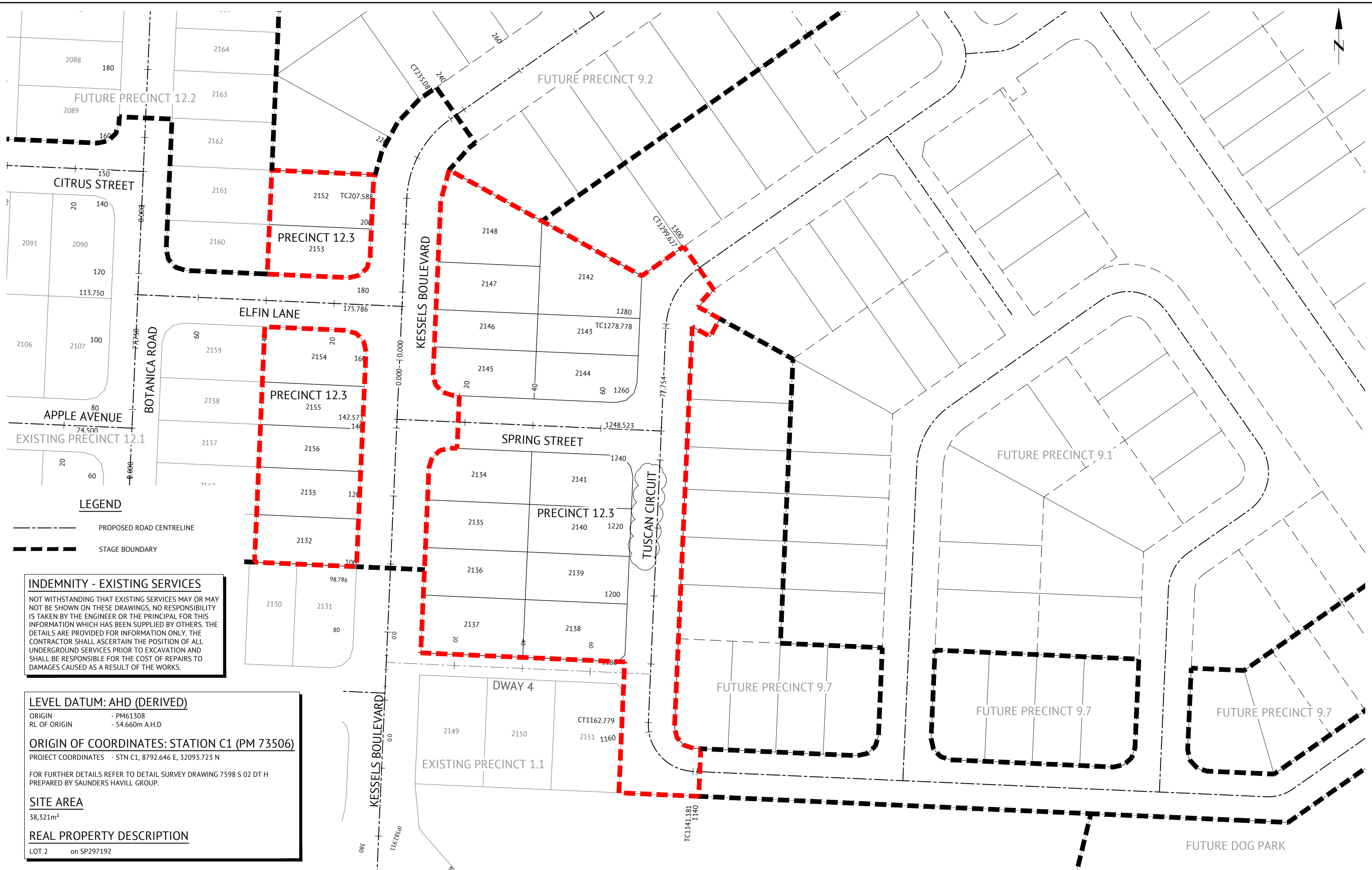


BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED K KIWANG	 PATRICK BRADY RPEQ 7112
CHECKED M MAJZNER	
PROJECT MANAGER C THORP	
PROJECT DIRECTOR	



CLIENT MIRVAC GROUP	JOB CODE MIR012-03
PROJECT EVERLEIGH PRECINCT 12.3 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

38,321m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

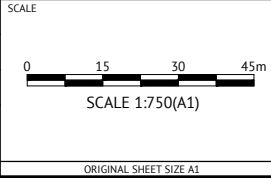
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DATE	REV	DESCRIPTION	KK	PB
04/02/2021	B	AMENDED ROAD NAME		PB
20/08/2020	A	APPROVAL ISSUE		PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION		APP
DATE	REV	DESCRIPTION	REC	APP



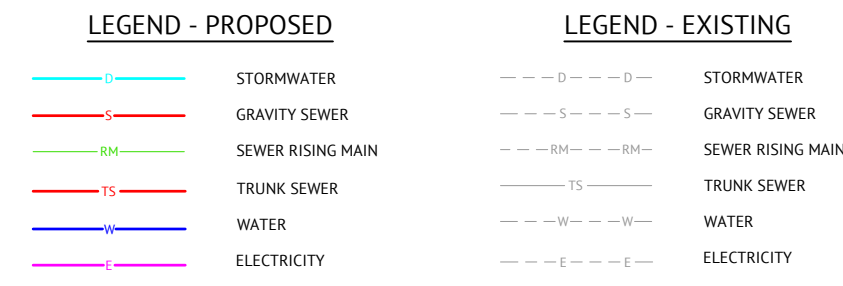
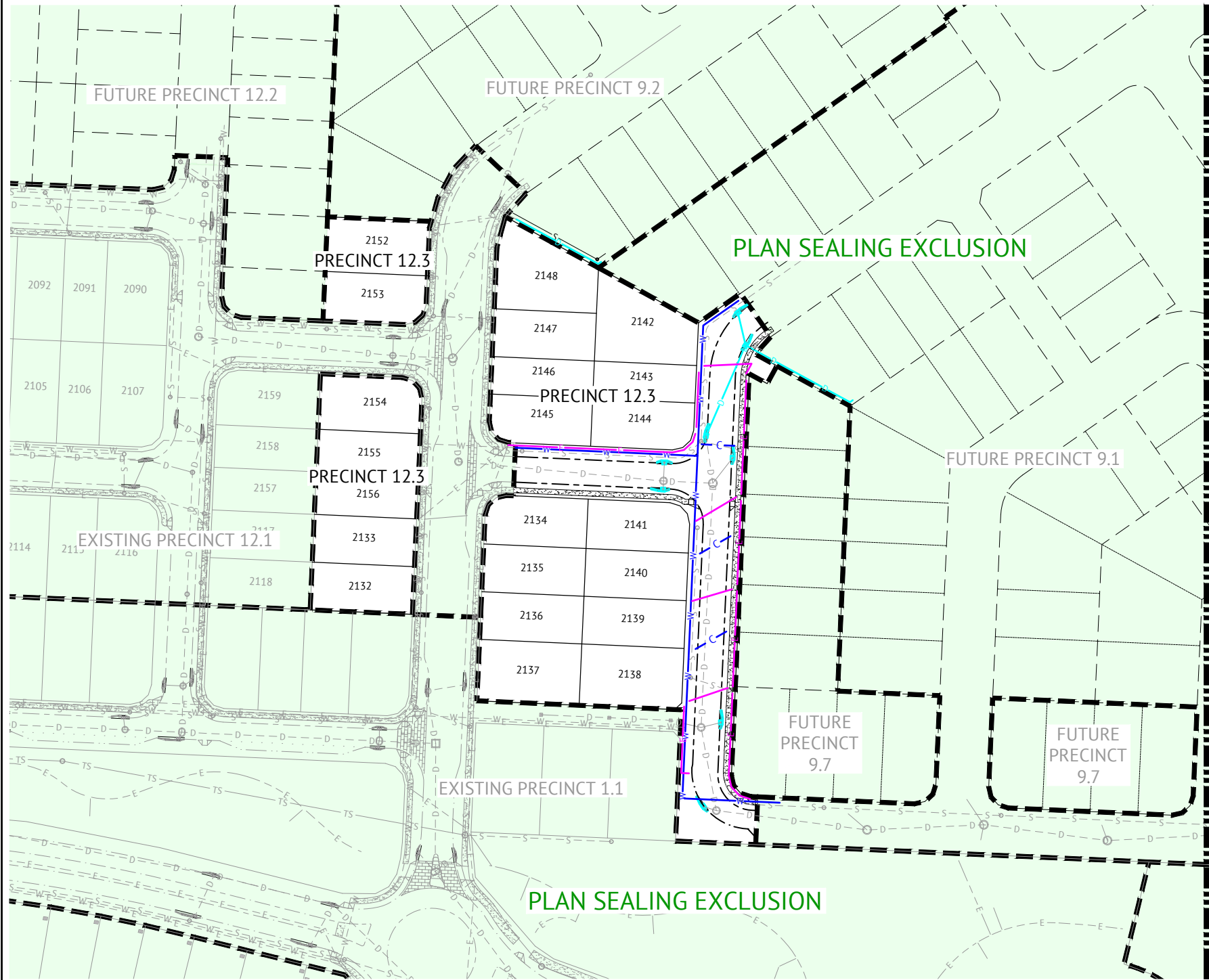
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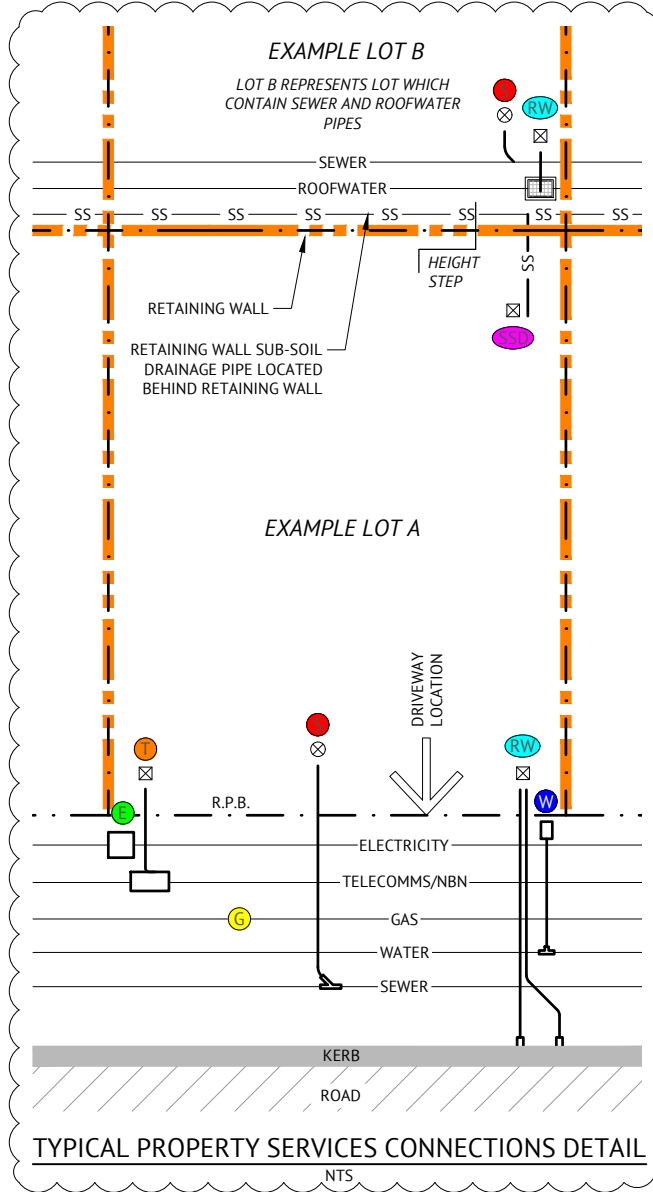


CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SURVEY SETOUT PLAN

JOB CODE
MIR012-03
 SHEET NUMBER
C002
 REV
B



JOINS BELOW



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

TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
08/09/2020	B	AMENDED LINE COLOUR AND LINE WEIGHTS	KK PB
20/08/2020	A	APPROVAL ISSUE	MM PB
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Premise

BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
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 FORTITUDE VALLEY, QLD 4006
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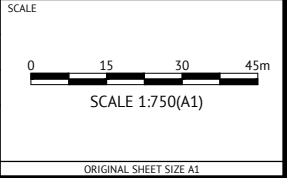
DESIGNED
K KIWANG

CHECKED
M MAJZNER

PROJECT MANAGER
R LLEWELYN

PROJECT DIRECTOR
Patrick Brady

PATRICK BRADY RPEQ 7112



CLIENT **MIRVAC GROUP**

PROJECT **EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT**

LOCATION **TEVIOT ROAD, GREENBANK**

SHEET TITLE **OVERALL SERVICES LAYOUT**

JOB CODE **MIR012-03**

SHEET NUMBER	REV
C003	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 EVENT <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.	MEDIUM
D5	WATER BODIES	PROPOSED CONSTRUCTION WATER DAMS WILL BE PRESENT ON SITE.	MEDIUM	PROPOSED WATER BODIES HAVE BEEN LOCATED AWAY FROM PUBLIC ACCESS AREAS. ACCESS TO THESE LOCATION WILL BE RESTRICTED FROM THE PUBLIC. CONTRACTOR WILL NEED TO TAKE ALL ACTIONS NECESSARY TO ADDRESS THIS HAZARD DURING CONSTRUCTION.	LOW

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

FOR CONSTRUCTION					
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20/08/2020	A	APPROVAL ISSUE			
	1	PRELIMINARY - NOT FOR CONSTRUCTION			

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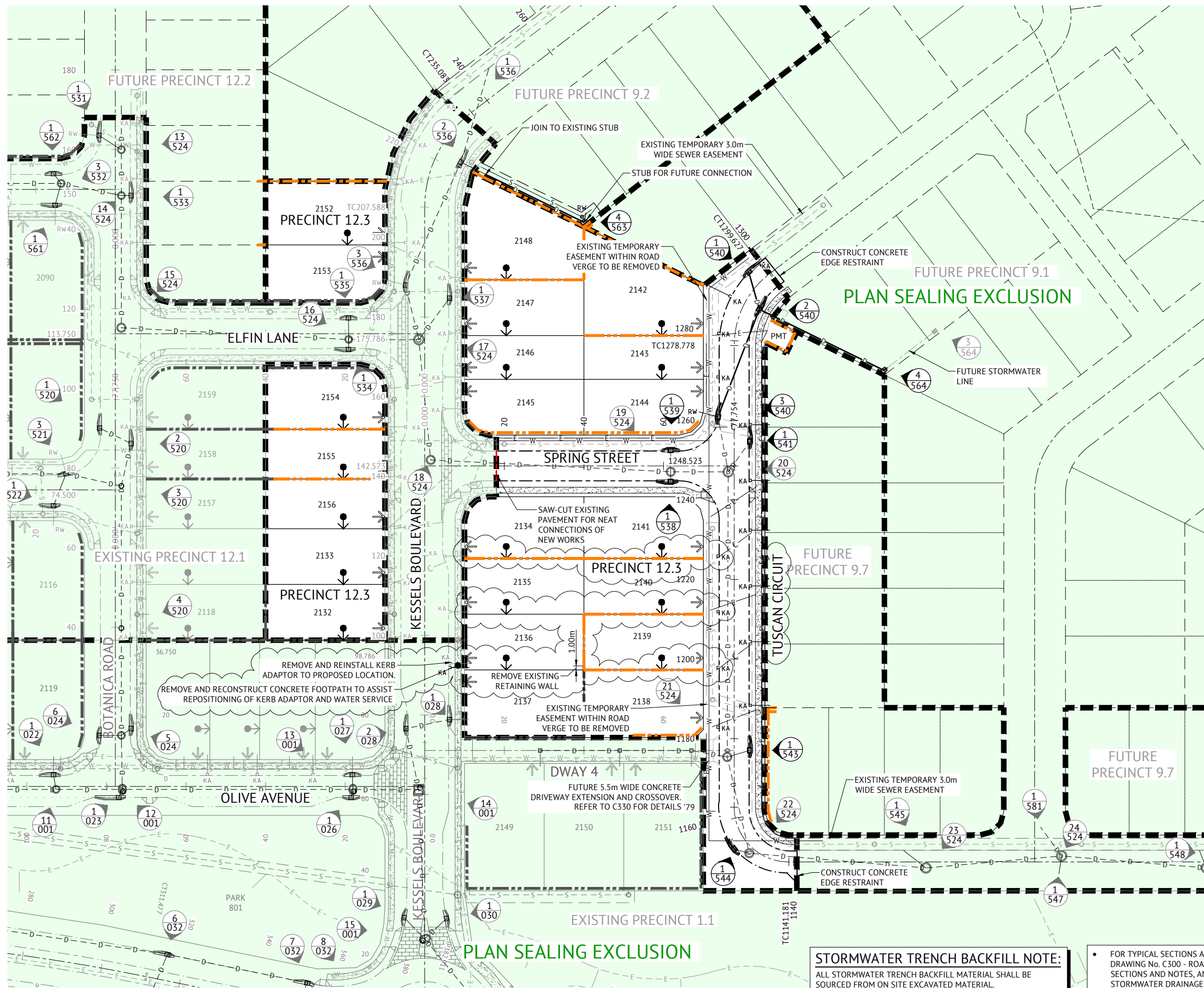


DESIGNED
K KIWANG
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SAFETY IN DESIGN

JOB CODE
MIR012-03
 SHEET NUMBER
C004
 REV
A



LEGEND - PROPOSED

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

LEGEND - EXISTING

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

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

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

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

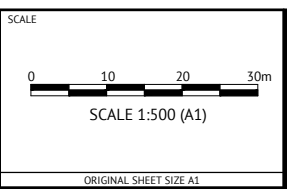
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
01/02/2021	B	AMENDED RETAINING WALL, MOVED KERB ADAPTORS, DRIVEWAY LOCATIONS, ZERO LOTS, AND ROAD NAME	KK PB
20/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC APP



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

DESIGNED
K KIWIANG
 CHECKED
M MAJZNER
 PROJECT MANAGER
C THORP
 PROJECT DIRECTOR
 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP

PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

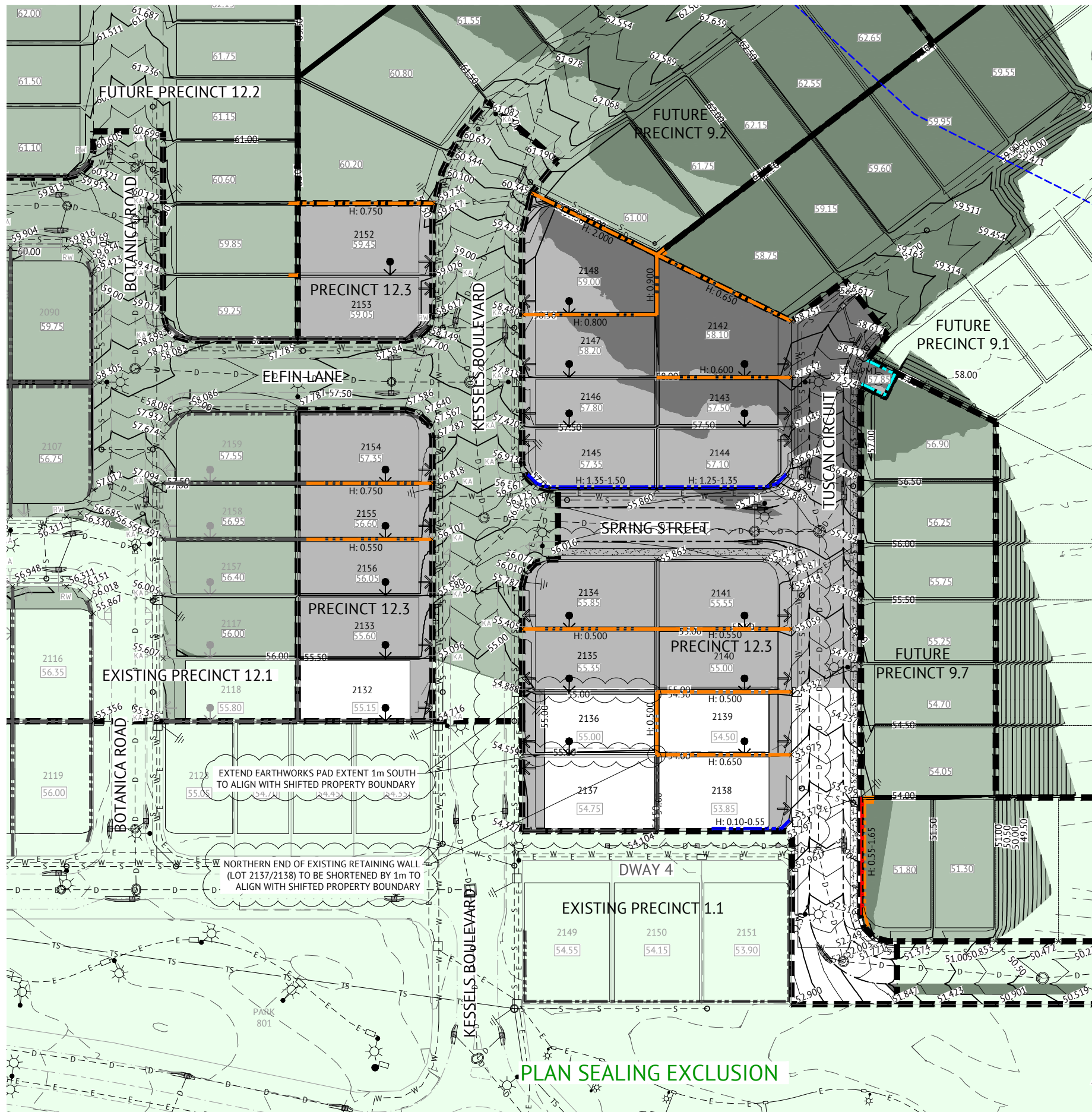
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
ROADWORKS AND DRAINAGE LAYOUT


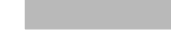
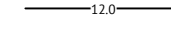


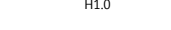

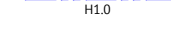



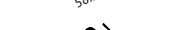

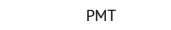

JOB CODE
MIR012-03

SHEET NUMBER
C100


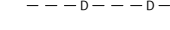

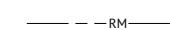
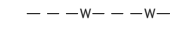
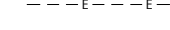





REV
B



LEGEND - PROPOSED

-  EXTENT OF CUT
-  EXTENT OF FILL
-  FINISHED MAJOR CONTOURS (0.50m)
-  FINISHED MINOR CONTOURS (0.25m)
-  FINISHED SURFACE LEVEL
-  PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). 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
-  PROPOSED MASONRY WALL TO ENERX STANDARDS
-  FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
-  FOOTPATH SPOT LEVEL
-  ZERO LOT LINE
-  PROPOSED FUTURE DRIVEWAY LOCATION
-  PAD MOUNTED TRANSFORMER
-  VEGETATION CLEARING EXTENT
-  STAGE BOUNDARY

LEGEND - EXISTING

-  EXISTING RETAINING WALL
-  EXISTING CONTOURS (0.50m)
-  EXISTING STORMWATER
-  EXISTING SEWER
-  EXISTING TRUNK SEWER
-  EXISTING SEWER RISING MAIN
-  EXISTING WATER
-  EXISTING ELECTRICITY
-  EXISTING TELECOMMUNICATIONS
-  EXISTING GAS
-  EPBC EXCISION BOUNDARY



EXTEND EARTHWORKS PAD EXTENT 1m SOUTH TO ALIGN WITH SHIFTED PROPERTY BOUNDARY

NORTHERN END OF EXISTING RETAINING WALL (LOT 2137/2138) TO BE SHORTENED BY 1m TO ALIGN WITH SHIFTED PROPERTY BOUNDARY

PLAN SEALING EXCLUSION

- 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.

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
03/02/2021	D	AMENDED PADS AND LOT LEVELS	KK PB
16/12/2020	C	ADJUSTED RETAINING WALLS	KK PB
08/09/2020	B	AMENDED NOTES	KK PB
20/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC APP

Premise

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

DESIGNED
K KIWANG

CHECKED
M MAJZNER

PROJECT MANAGER
C THORP

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

0 10 20 30m

SCALE 1:500 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP

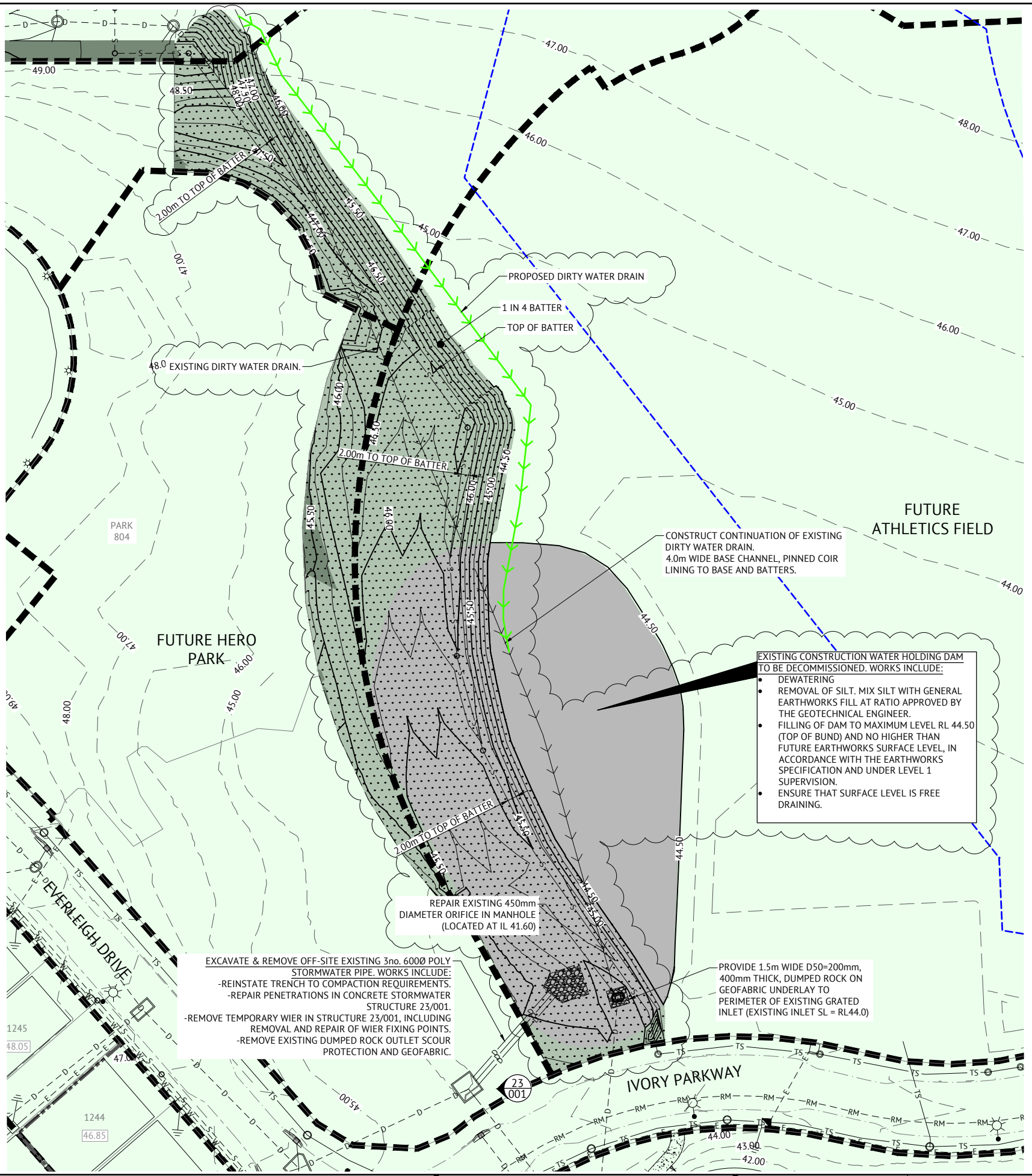
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS LAYOUT - SHEET 1

JOB CODE
MIR012-03

SHEET NUMBER C200	REV D
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LEGEND - PROPOSED

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

LEGEND - EXISTING

- EXISTING RETAINING WALL
- EXISTING CONTOURS (0.50m)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING TRUNK SEWER
- EXISTING SEWER RISING MAIN
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS
- EPBC EXCISION BOUNDARY

EXISTING CONSTRUCTION WATER HOLDING DAM TO BE DECOMMISSIONED. WORKS INCLUDE:

- DEWATERING
- REMOVAL OF SILT. MIX SILT WITH GENERAL EARTHWORKS FILL AT RATIO APPROVED BY THE GEOTECHNICAL ENGINEER.
- FILLING OF DAM TO MAXIMUM LEVEL RL 44.50 (TOP OF BUND) AND NO HIGHER THAN FUTURE EARTHWORKS SURFACE LEVEL, IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION AND UNDER LEVEL 1 SUPERVISION.
- ENSURE THAT SURFACE LEVEL IS FREE DRAINING.

EXCAVATE & REMOVE OFF-SITE EXISTING 3no. 600Ø POLY STORMWATER PIPE. WORKS INCLUDE:

- REINSTATE TRENCH TO COMPACTION REQUIREMENTS.
- REPAIR PENETRATIONS IN CONCRETE STORMWATER STRUCTURE 23/001.
- REMOVE TEMPORARY WIER IN STRUCTURE 23/001, INCLUDING REMOVAL AND REPAIR OF WIER FIXING POINTS.
- REMOVE EXISTING DUMPED ROCK OUTLET SCOUR PROTECTION AND GEOFABRIC.

PROVIDE 1.5m WIDE D50=200mm, 400mm THICK, DUMPED ROCK ON GEOFABRIC UNDERLAY TO PERIMETER OF EXISTING GRATED INLET (EXISTING INLET SL = RL44.0)

REPAIR EXISTING 450mm DIAMETER ORIFICE IN MANHOLE (LOCATED AT IL 41.60)

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 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.

- NOTES**
1. REFER BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
 2. PROPOSED SERVICES WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS. EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE BY OTHERS.
 3. FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.
 4. FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C210-C211 - EARTHWORKS NOTES AND DETAILS.

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

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

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

PAD MOUNTED TRANSFORMER NOTE

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

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
23/09/2020	B	AMENDED EARTHWORKS EXTENT AND NOTE TO CONSTRUCTION WATER HOLDING DAM	KK
20/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC APP

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

DESIGNED: K KIWANG
CHECKED: M MAJZNER
PROJECT MANAGER: R LLEWELYN
PROJECT DIRECTOR: PATRICK BRADY
RPEQ 7112

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

CLIENT: MIRVAC GROUP
PROJECT: EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: BULK EARTHWORKS LAYOUT - SHEET 2

JOB CODE: M1R012-03
SHEET NUMBER: C202
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	REVISIONS	KK	PB
08/09/2020	B	AMENDED NOTES			
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BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au



DESIGNED
K KIWANG

CHECKED
M MAJZNER

PROJECT MANAGER
R LLEWELYN

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP

PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

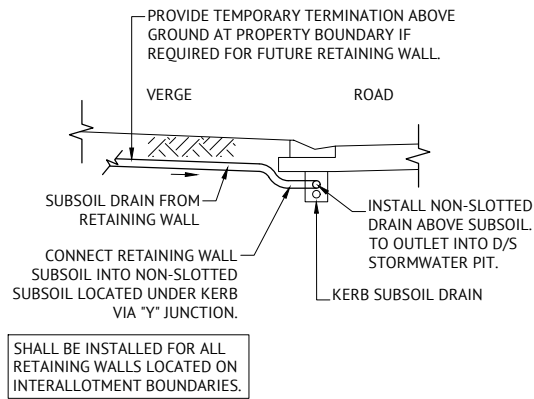
LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2

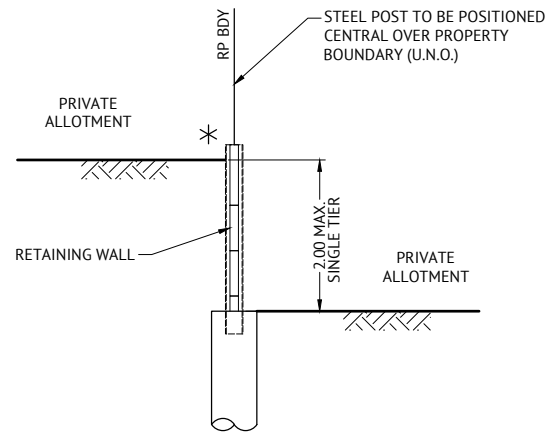
JOB CODE
MIR012-03

SHEET NUMBER
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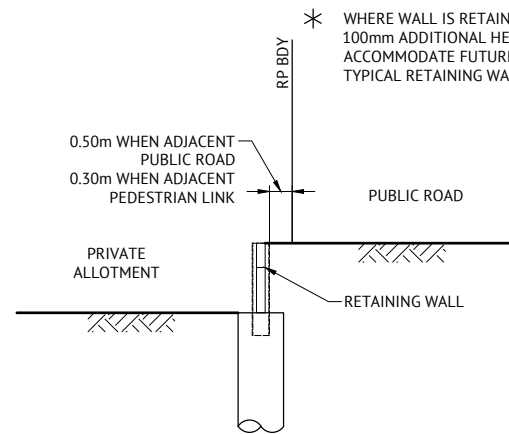
REV
B



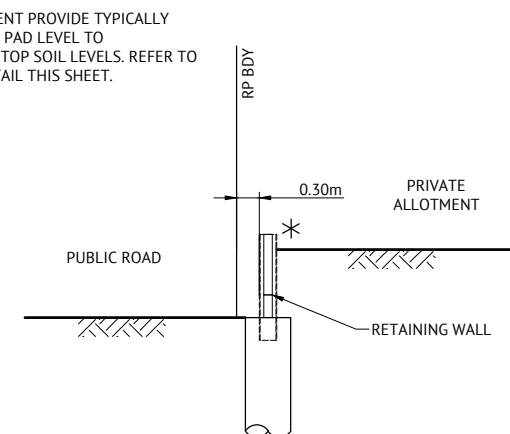
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD
N.T.S.



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

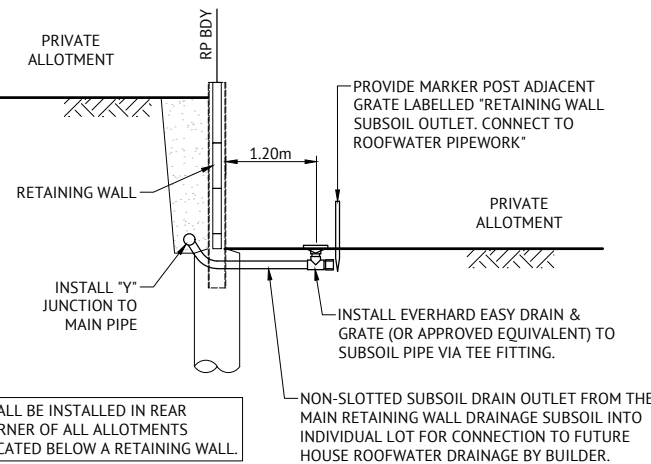


TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER
N.T.S.

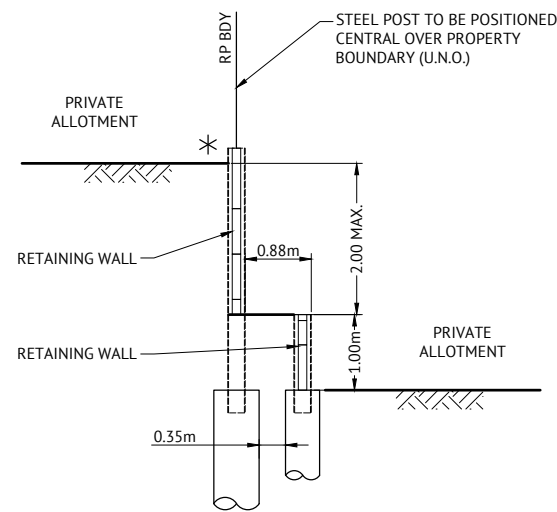


TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.

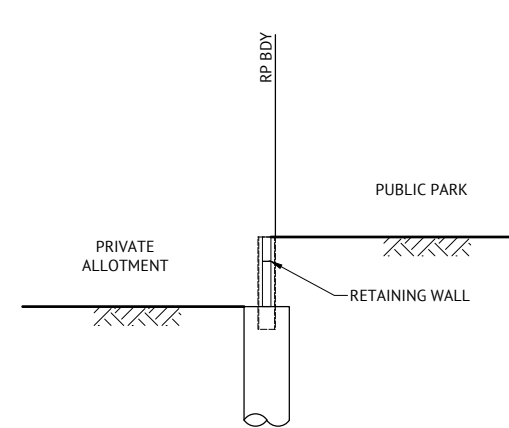
* WHERE WALL IS RETAINING PRIVATE ALLOTMENT PROVIDE TYPICALLY 100mm ADDITIONAL HEIGHT ABOVE FINISHED PAD LEVEL TO ACCOMMODATE FUTURE BUILDING SLAB AND TOP SOIL LEVELS. REFER TO TYPICAL RETAINING WALL LOT FINISHING DETAIL THIS SHEET.



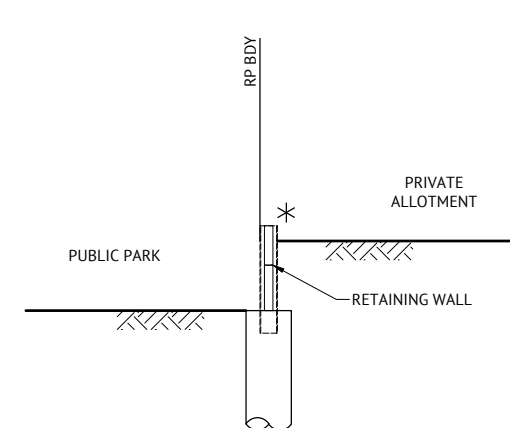
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS
N.T.S.



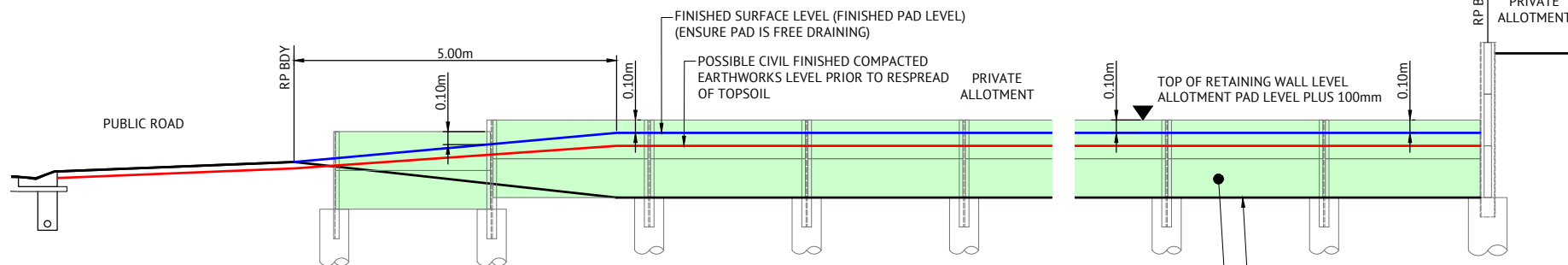
TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT
2m-3m MAX HIGH
N.T.S.



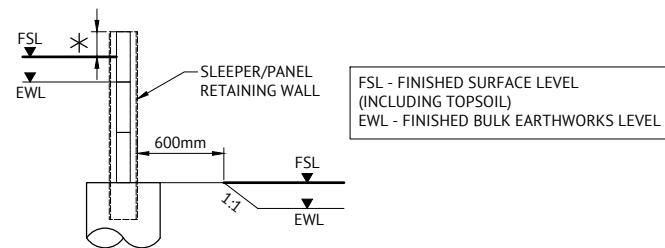
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER
N.T.S.



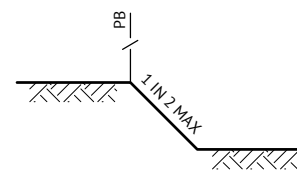
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER
N.T.S.



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



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

RETAINING WALL SHOP DRAWINGS
CONTRACTOR MUST PREPARE RETAINING WALL SHOP DRAWINGS FOR APPROVAL BY SUPERINTENDENT PRIOR TO COMMENCING RETAINING WALL CONSTRUCTION. SHOP DRAWINGS ARE TO DETAIL THE FOLLOWING ELEMENTS:
- ELEVATIONS OF ALL PROPOSED RETAINING WALLS AND ACOUSTIC FENCES
- TOP AND BOTTOM RLS TO SLEEPER/PANEL
- FINISHED PAD/ROAD SURFACE LEVELS
- DIMENSIONS OF RETAINING WALL END FINISHING CONFIGURATION, OFFSETS FROM BOUNDARIES
- POST DETAILS FOR INTRICATE INTERSECTION POINTS

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

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

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

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

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



DESIGNED
K KIWANG
CHECKED
M MAJZNER
PROJECT MANAGER
R LLEWELYN
PROJECT DIRECTOR
PATRICK BRADY RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
BULK EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2

JOB CODE
MIR012-03
SHEET NUMBER
C211
REV
B

NOTES

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

ROADWORKS NOTES

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

CONCRETE PAVEMENT

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

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

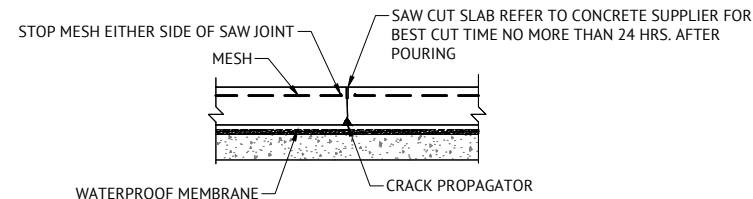
- MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
- PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
- CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
- ALL JOINTS ARE TO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

CONCRETE PAVEMENT MAINTENANCE NOTES

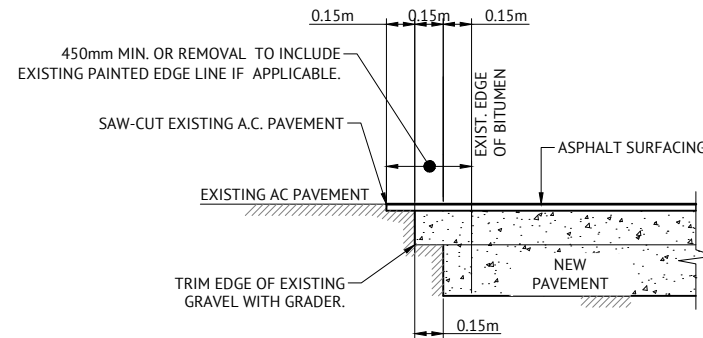
- NOTE THAT UPKEEP AND REPLACEMENT OF SEALANTS IS PART OF THE ONGOING MAINTENANCE REQUIREMENTS FOR THIS SITE.
- NOTE THAT SHRINKAGE CRACKS OF WIDTH < 1.5mm MAY OCCUR IN CONCRETE PAVEMENTS WITHIN 12 MONTHS OF INITIAL CASTING.
- NOTE THAT THE PAVEMENT WILL NOT BE MAINTENANCE FREE FOR ITS DESIGN LIFE.
-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

CONCRETE REQUIREMENTS

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

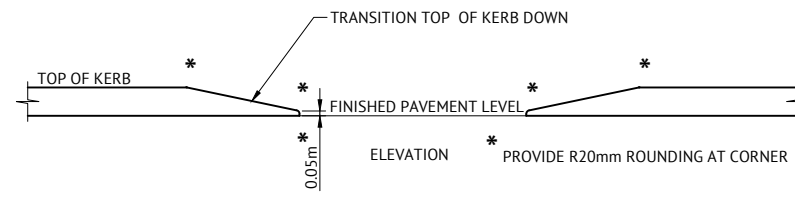


SAWCUT JOINT (S.J.)



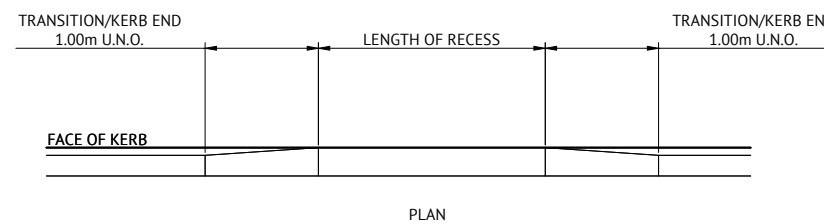
TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S

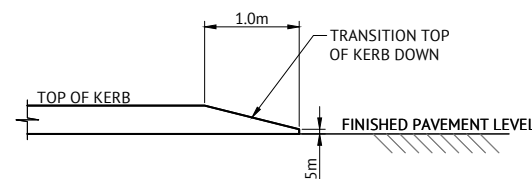


TYPICAL KERB RECESS / END DETAIL

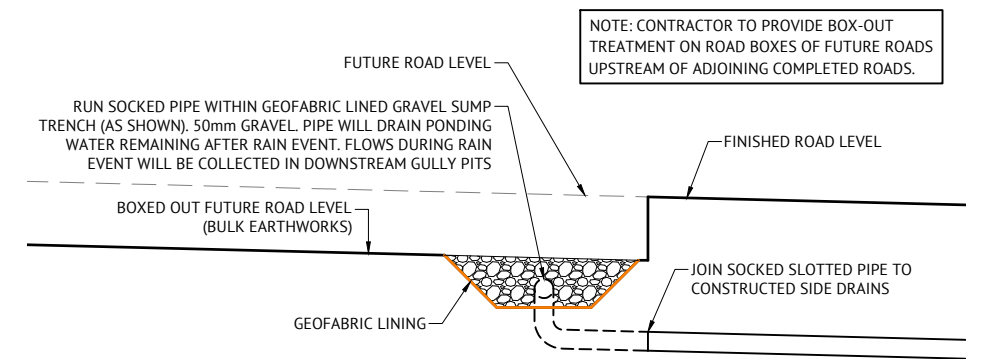
NOTE: REFER LAYOUT PLAN FOR TRANSITION RECESS & KERB END LOCATIONS & LENGTHS



PLAN



KERB END DETAIL



TYPICAL FUTURE ROADS BOX-OUT TREATMENT

SCALE 1:20

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

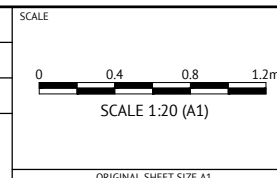
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BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
 WEB: www.premise.com.au

DESIGNED: K KIWANG
 CHECKED: M MAJZNER
 PROJECT MANAGER: R LLEWELYN
 PROJECT DIRECTOR: Patrick Brady
 RPEQ 7112



CLIENT: **MIRVAC GROUP**
 PROJECT: **EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT**
 LOCATION: **TEVIOT ROAD, GREENBANK**
 SHEET TITLE: **ROADWORKS NOTES AND DETAILS**

JOB CODE		MIR012-03
SHEET NUMBER	REV	
C300	A	

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

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

* REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

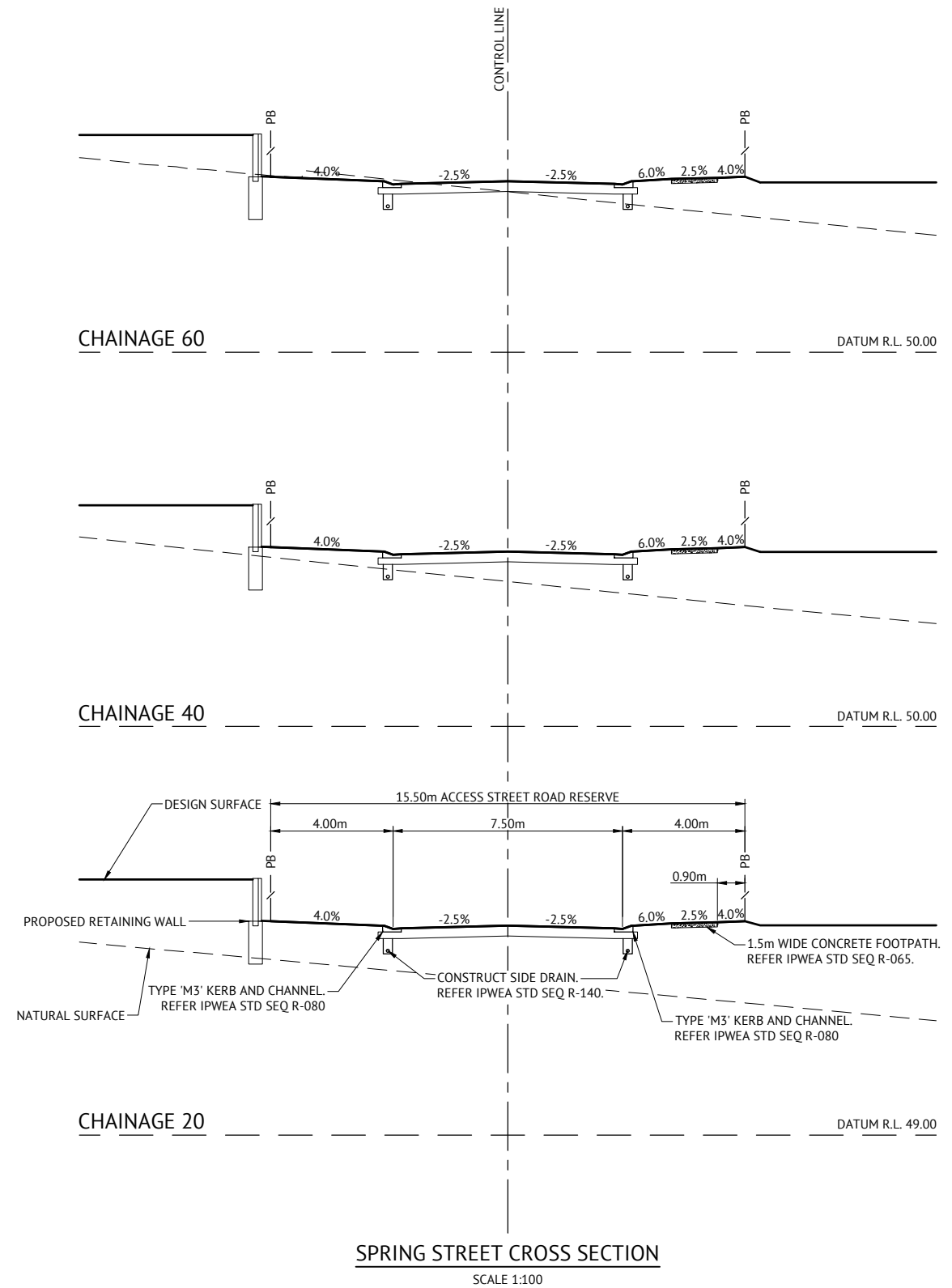
Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.47.0

CUT (-)/FILL DEPTH	3.156	2.854	1.946	1.815	0.978	0.343	0.343	0.288	0.682	0.572
LHS LIP LEVEL			55.769	55.755	55.629	55.503	55.503	55.494	*	
RHS LIP LEVEL			55.769	55.755	55.629	55.503	55.503	55.494	*	
DESIGN SURFACE	56.169	56.075	55.856	55.842	55.716	55.590	55.581	55.770	55.814	
NATURAL SURFACE	53.013	53.222	53.910	54.027	54.737	55.246	55.292	55.038	55.242	
CHAINAGE	0.00	3.75	17.75	20.00	40.00	60.00	62.82	74.00	77.75	

SPRING STREET LONGITUDINAL SECTION

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



SPRING STREET CROSS SECTION

SCALE 1:100

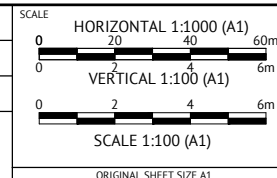
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
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20/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION		
			REC	APP
			REC	APP



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

DESIGNED
K KIWANG
CHECKED
M MAJZNER
PROJECT MANAGER
C THORP
PROJECT DIRECTOR
PATRICK BRADY



CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SPRING STREET LONG & CROSS SECTIONS

JOB CODE
MIR012-03
SHEET NUMBER
C310
REV
B

PAVEMENT DESIGN (PRELIMINARY)	
ROADS	TUSCAN CIRCUIT
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

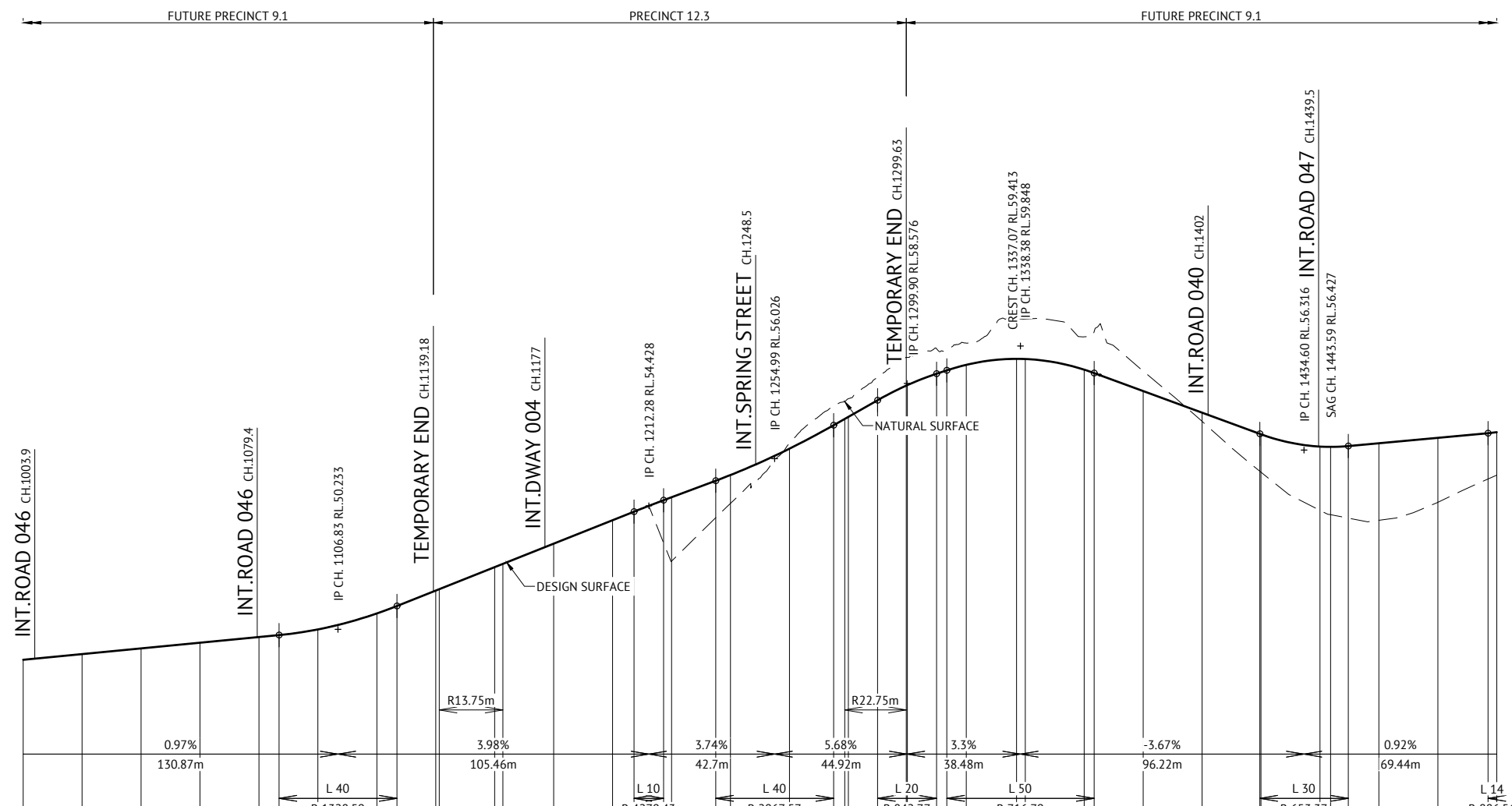
Horiz Curve Data

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

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

DATUM R.L.43.0

CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE	CHAINAGE
0.000	49.143	49.138	49.200	49.200	1000.00
0.000	49.336	49.332	49.394	49.394	1020.00
0.000	49.529	49.525	49.587	49.587	1040.00
0.000	49.723	49.718	49.780	49.780	1060.00
0.000	49.916	49.912	49.974	49.974	1080.00
0.000	49.982	49.978	50.040	50.040	1086.83
-0.002	50.175	50.170	50.232	50.235	1100.00
-0.003	50.717	50.713	50.775	50.778	1120.00
-0.000	50.971	50.967	51.029	51.029	1126.83
-0.000	51.495	51.491	51.553	51.553	1140.00
-0.000	51.542	51.538	51.600	51.600	1141.18
0.000	52.265	52.264	52.348	52.348	1160.00
-0.000	52.372	52.372	52.459	52.459	1162.78
-0.000	53.057	53.057	53.144	53.144	1180.00
0.000	53.852	53.852	53.939	53.939	1200.00
0.002	54.142	54.142	54.229	54.226	1207.28
1.442	54.528	54.528	54.615	53.173	1217.28
2.170	54.630	54.630	54.717	52.547	1220.00
1.255	55.190	55.190	55.277	54.022	1234.99
0.960	55.384	55.384	55.471	54.511	1240.00
-0.187	56.278	56.278	56.365	56.552	1260.00
-0.646	57.075	57.075	57.162	57.807	1274.99
-0.586	57.290	57.290	57.377	57.964	1278.78
-0.614	57.359	57.359	57.446	58.060	1280.00
-0.749	57.922	57.922	58.009	58.758	1289.90
-0.959	58.418	58.418	58.505	59.464	1299.63
-0.938	58.435	58.435	58.522	59.460	1300.00
-0.849	58.820	58.820	58.907	59.756	1309.90
-0.702	58.935	58.935	59.022	59.724	1313.38
-0.737	59.123	59.123	59.210	59.947	1320.00
-1.367	59.326	59.326	59.413	60.780	1337.07
-1.360	59.320	59.320	59.407	60.767	1340.00
-1.114	58.960	58.960	59.047	60.161	1360.00
-1.413	58.844	58.844	58.931	60.344	1363.38
-0.679	58.234	58.234	58.321	59.000	1380.00
0.295	57.499	57.499	57.586	57.291	1400.00
1.268	56.780	56.780	56.867	55.599	1419.60
1.285	56.765	56.765	56.852	55.567	1420.00
2.163	56.350	56.350	56.437	54.273	1440.00
2.302	56.340	56.340	56.427	54.125	1443.59
2.445	56.367	56.367	56.454	54.010	1449.60
2.614	56.463	56.463	56.550	53.936	1460.00
2.191	56.647	56.647	56.734	54.543	1480.00
1.554	56.804	56.804	56.891	55.337	1497.04
1.458	56.836	56.836	56.923	55.466	1500.00



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
04/02/2021	B	AMENDED ROAD NAME AND SHEET TITLE		
20/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION		
			REC	APP
			REC	APP

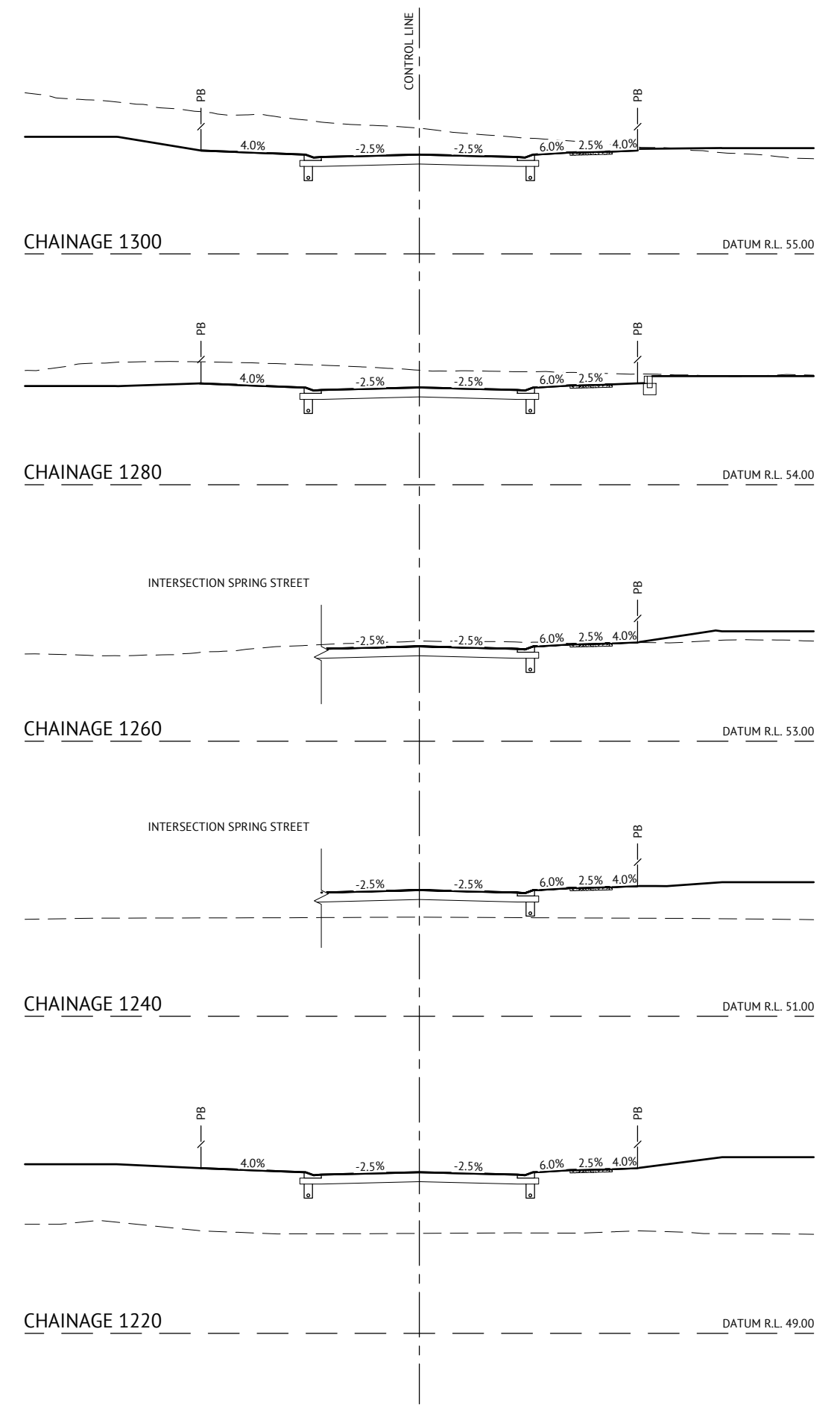
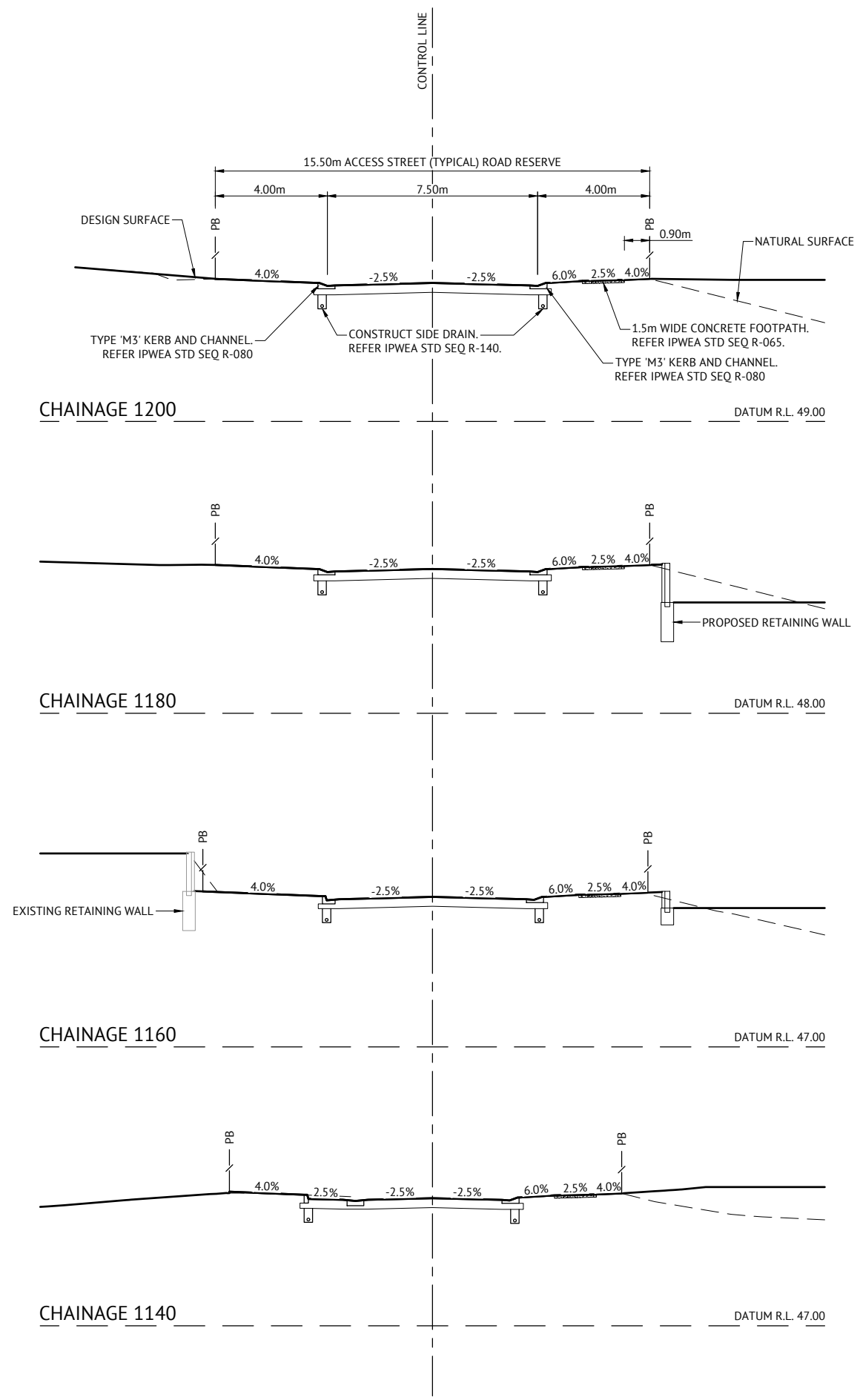
Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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DESIGNED
K KIWANG
 CHECKED
M MAJZNER
 PROJECT MANAGER
C THORP
 PROJECT DIRECTOR
PATRICK BRADY
 RPEQ 7112

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

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
TUSCAN CIRCUIT LONGITUDINAL SECTION

JOB CODE
MIR012-03
 SHEET NUMBER
C311
 REV
B



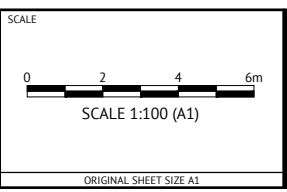
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
04/02/2021	B	AMENDED SHEET TITLE	KK PB
20/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC APP
			REC APP



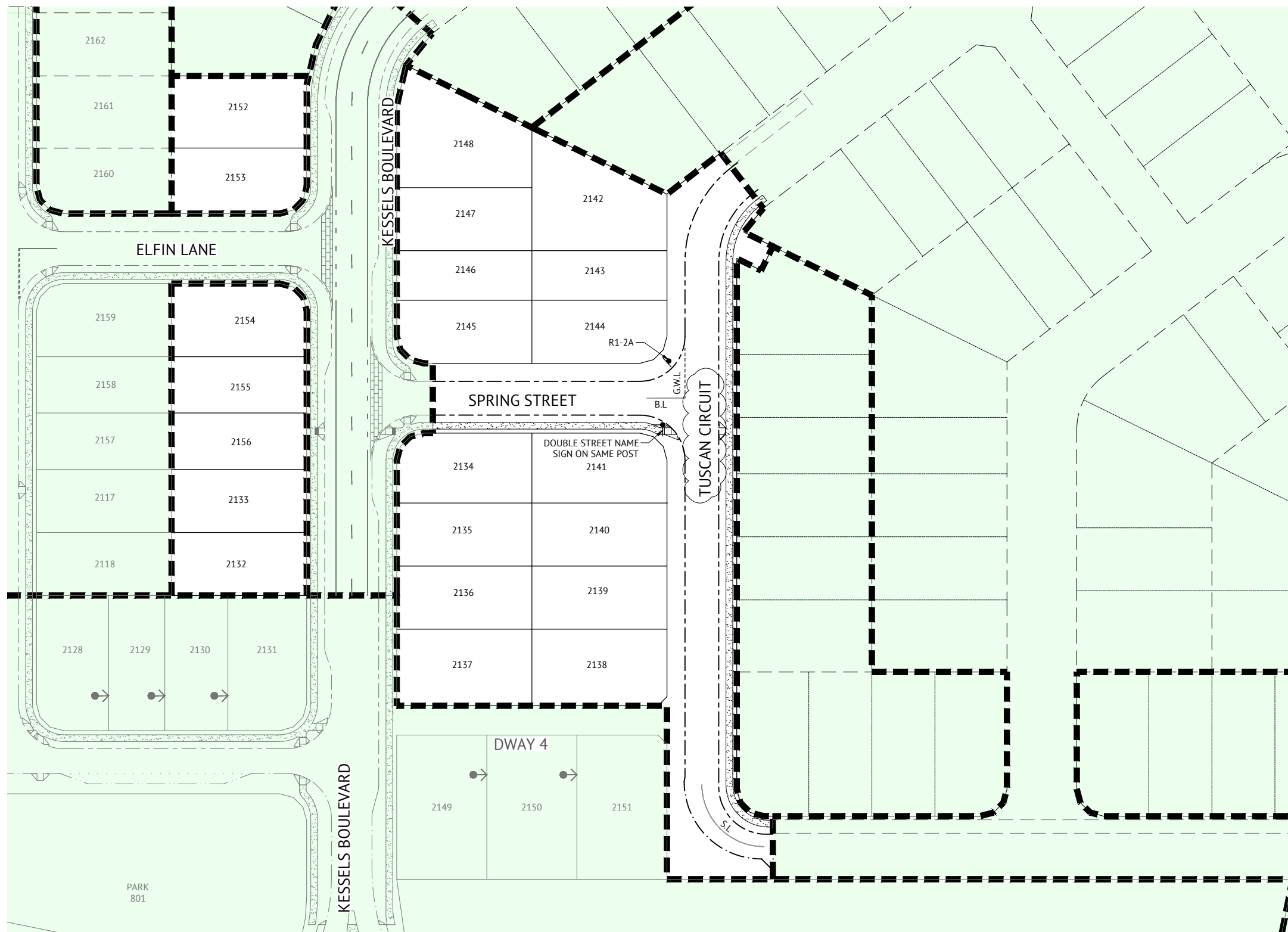
BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
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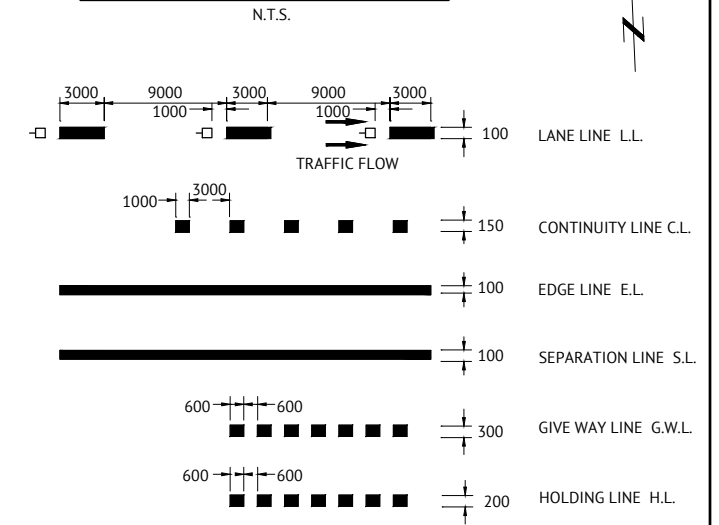


CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
TUSCAN CIRCUIT CROSS SECTIONS

JOB CODE
MIR012-03
 SHEET NUMBER
C312
 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



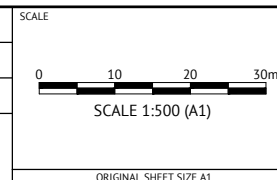
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS
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20/08/2020	A	APPROVAL ISSUE	MM PB
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 FORTITUDE VALLEY, QLD 4006
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 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
PAVEMENT MARKINGS AND SIGNAGE LAYOUT

JOB CODE
MIR012-03
 SHEET NUMBER
C340
 REV
B



LEGEND

- PROPOSED STORMWATER CATCHMENT BOUNDARY.
- 1/A
0.2311ha
STORMWATER CATCHMENT NUMBER AND AREA
- PROPOSED STORMWATER LINE
- EXISTING STORMWATER LINE
- 12.0-
FINISHED CONTOURS (0.50m)
- 12.0-
FINISHED CONTOURS (0.25m)
- 12.0-
EXISTING CONTOURS (0.50m)

FOR CONSTRUCTION

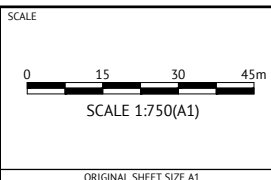
DD/MM/YYYY	REV	DESCRIPTION	MM REC	PB APP
20/08/2020	A	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION		



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 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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CLIENT
MIRVAC GROUP

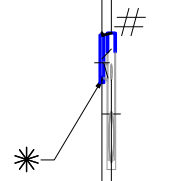
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER CATCHMENT LAYOUT

JOB CODE MIR012-03	
SHEET NUMBER C400	REV A

STRUCTURE NAME	1/538
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	19/524
	IPWEA MANHOLE 1800mm DIA



REMOVE TEMPORARY STEEL LID & INSTALL ROOF SLAB & RISER TO FINISHED ROAD SURFACE LEVEL

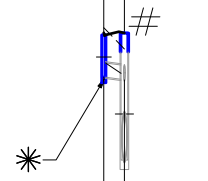
* CONSTRUCT GULLY AND CONNECT NEATLY INTO EXISTING STORMWATER LINE.

PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	3.00%
PIPE SLOPE (1 in X)	33.3
FULL PIPE VELOCITY (m/s)	0.10
PART FULL VELOCITY (m/s)	1.31
PIPE FLOW (cumecs)	0.011
PIPE CAPACITY AT GRADE (cumecs)	0.304
DATUM RL	37.0

WSE IN STRUCTURE	54.760
HGL IN PIPE	54.755
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	54.380
FINISHED (& EXISTING) SURFACE LEVEL	55.495 (54.865)
CHAINAGE	0.000

LINE 538

STRUCTURE NAME	1/539
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.L.I.; 2.4m Lintel
	19/524
	IPWEA MANHOLE 1800mm DIA

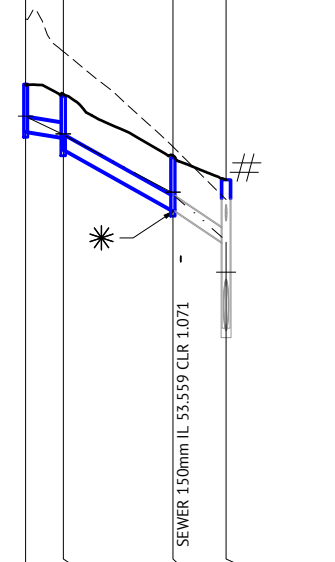


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	99.9
FULL PIPE VELOCITY (m/s)	0.56
PART FULL VELOCITY (m/s)	1.45
PIPE FLOW (cumecs)	0.062
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	37.0

WSE IN STRUCTURE	54.911
HGL IN PIPE	54.755
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	54.380
FINISHED (& EXISTING) SURFACE LEVEL	55.495 (55.687)
CHAINAGE	0.000

LINE 539

STRUCTURE NAME	1/540
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	2/540
	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	3/540
	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	20/524
	IPWEA MANHOLE 2100mm DIA

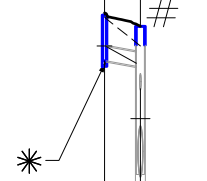


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.7
FULL PIPE VELOCITY (m/s)	0.26
PART FULL VELOCITY (m/s)	1.36
PIPE FLOW (cumecs)	0.029
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	39.0

WSE IN STRUCTURE	57.403
HGL IN PIPE	57.369
DEPTH OF INVERT BELOW FSL	1.247
INVERT LEVEL	56.994
FINISHED (& EXISTING) SURFACE LEVEL	58.241 (59.981)
CHAINAGE	0.000

LINE 540

STRUCTURE NAME	1/541
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	20/524
	IPWEA MANHOLE 2100mm DIA

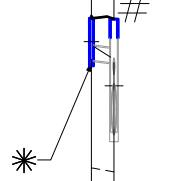


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.50%
PIPE SLOPE (1 in X)	66.6
FULL PIPE VELOCITY (m/s)	0.19
PART FULL VELOCITY (m/s)	1.23
PIPE FLOW (cumecs)	0.021
PIPE CAPACITY AT GRADE (cumecs)	0.215
DATUM RL	37.0

WSE IN STRUCTURE	55.203
HGL IN PIPE	55.186
DEPTH OF INVERT BELOW FSL	1.211
INVERT LEVEL	54.811
FINISHED (& EXISTING) SURFACE LEVEL	56.021 (55.970)
CHAINAGE	0.000

LINE 541

STRUCTURE NAME	1/543
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	21/524
	IPWEA MANHOLE 1800mm DIA

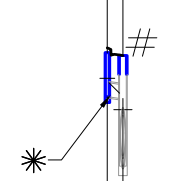


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	52.320
HGL IN PIPE	52.200
DEPTH OF INVERT BELOW FSL	1.115
INVERT LEVEL	51.825
FINISHED (& EXISTING) SURFACE LEVEL	52.940 (48.974)
CHAINAGE	0.000

LINE 543

STRUCTURE NAME	1/544
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.L.I.; 2.4m Lintel
	22/524
	IPWEA MANHOLE 1800mm DIA

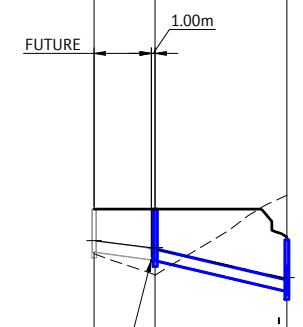


PIPE SIZE (mm)	375
PIPE CLASS	2
PIPE GRADE (%)	1.00%
PIPE SLOPE (1 in X)	100.0
FULL PIPE VELOCITY (m/s)	0.49
PART FULL VELOCITY (m/s)	1.40
PIPE FLOW (cumecs)	0.054
PIPE CAPACITY AT GRADE (cumecs)	0.175
DATUM RL	34.0

WSE IN STRUCTURE	51.354
HGL IN PIPE	51.234
DEPTH OF INVERT BELOW FSL	1.170
INVERT LEVEL	50.859
FINISHED (& EXISTING) SURFACE LEVEL	52.029 (48.179)
CHAINAGE	0.000

LINE 544

STRUCTURE NAME	3/564
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	4/564
	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
	2/540
	IPWEA KERB INLET L.L.I.; 2.4m Lintel



PIPE SIZE (mm)	300
PIPE CLASS	uPVC
PIPE GRADE (%)	1.30%
PIPE SLOPE (1 in X)	76.9
FULL PIPE VELOCITY (m/s)	0.41
PART FULL VELOCITY (m/s)	1.48
PIPE FLOW (cumecs)	0.029
PIPE CAPACITY AT GRADE (cumecs)	0.130
DATUM RL	41.0

WSE IN STRUCTURE	57.916
HGL IN PIPE	57.911
DEPTH OF INVERT BELOW FSL	1.139
INVERT LEVEL	57.611
FINISHED (& EXISTING) SURFACE LEVEL	58.750 (57.568)
CHAINAGE	0.000

LINE 564

FOR CONSTRUCTION

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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PROJECT MANAGER
R LLEWELYN

PROJECT DIRECTOR
PATRICK BRADY

RPEQ 7112

SCALE

HORIZONTAL 1:1000 (A1)

VERTICAL 1:100 (A1)

ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP

PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
STORMWATER DRAINAGE LONG SECTIONS

JOB CODE
MIR012-03

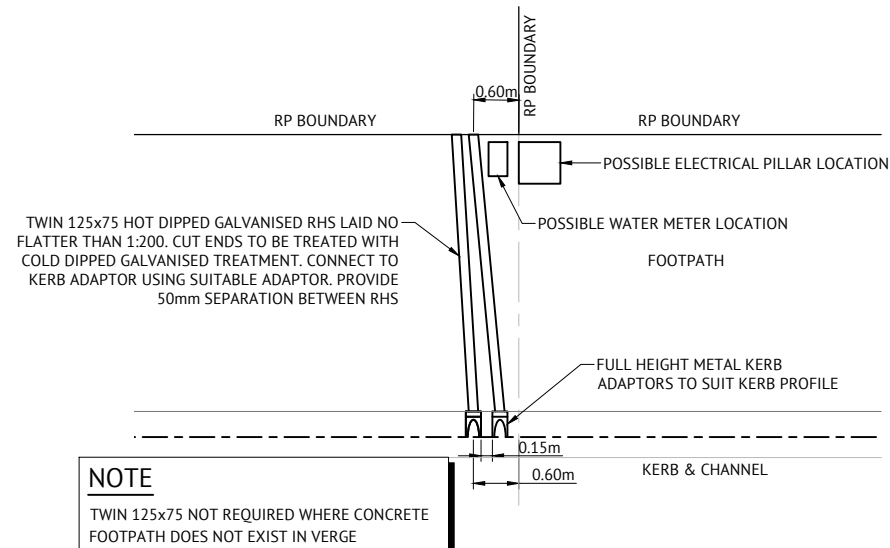
SHEET NUMBER
C410

REV
A

20/08/2020	A	APPROVAL ISSUE	MM	PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC	APP
DATE	REV	DESCRIPTION	REC	APP

STORMWATER DRAINAGE NOTES

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



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

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

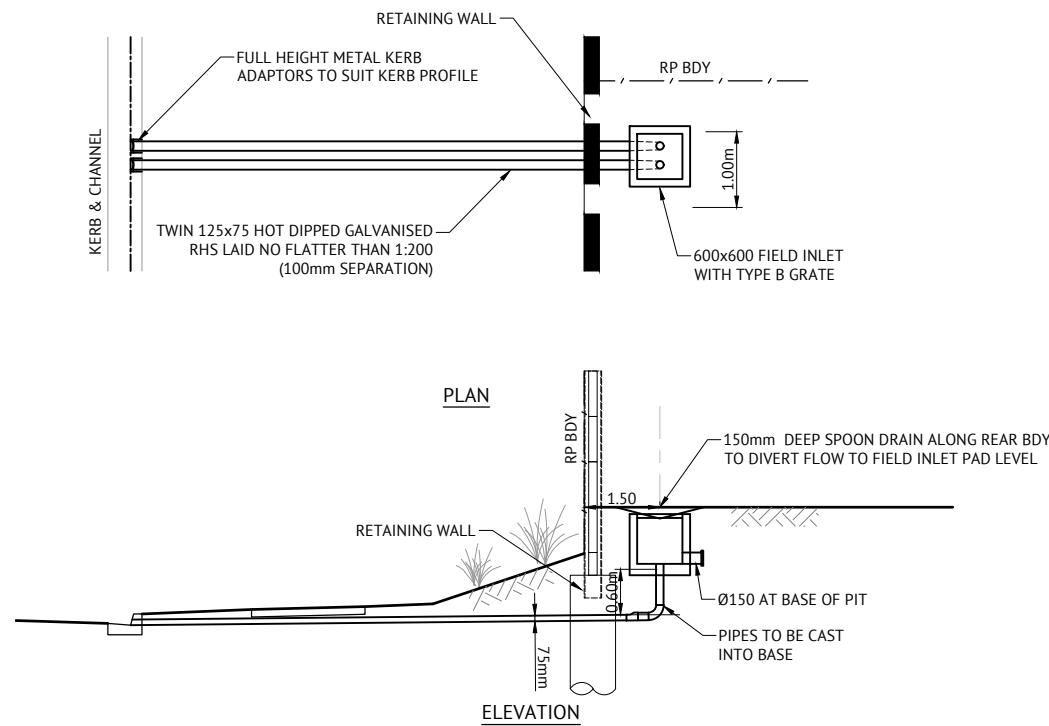
STRUCTURE TYPE	HORIZONTAL CONTROL POINT [REFERENCE POINT LOCATION]	VERTICAL CONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION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

EXCAVATION IN ROCK NOTE:

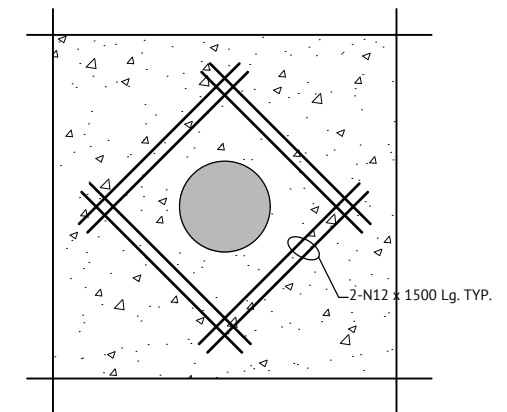
CONTRACT SHALL INCLUDE TREATING, SIZING CONDITIONING AND PROCESSING ALL TYPES OF ROCK IN ALL EXCAVATIONS. PROCESSING TO BE COMPLETED AS PER MORRISON GEOTECHNICAL REPORTS TO ENSURE LEVEL 1 IS ACHIEVED.

TRENCH SPOIL NOTE:

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



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



TYPICAL DETAIL
GRADED PIT IN CONCRETE PAVEMENT
SCALE 1:20

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MM	PB
20/08/2020	A	APPROVAL ISSUE		
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC	APP
			REC	APP



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

DESIGNED
B ADAMS
CHECKED
M MAJZNER
PROJECT MANAGER
R LLEWELYN
PROJECT DIRECTOR
[Signature]
PATRICK BRADY RPEQ 7112

SCALE
NTS
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
STORMWATER DRAINAGE NOTES AND DETAILS

JOB CODE
MIR012-03
SHEET NUMBER
C420
REV
A

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	m
1/538	19/524	1/538	8.00	252	1.00	0.047	0.047	33	90	0.45	81	9	1/544	8.00	252	0.047	0	81	2.490	3.000	375	2	0.73	0.02	32	1.00		1.65	0.027	8.90	0.243		0.243	12.11	0.126	0.132	2.33	54.755	54.680	54.755	54.453	54.998	55.495	1264	90	0.01	1/538
19/524																																													19/524		
1/539	19/524	1/539	8.00	252	1.00	0.255	0.255	178	271	0.45	214	57	1/538	8.00	252	0.255	0	214	5.447	1.001	375	2	1.94	0.06	32	1.00		2.97	0.192	3.86	0.740		0.740	1.78	0.071	0.375	1.94	54.755	54.701	54.755	54.658	55.495	55.495	1264	271		1/539
1/540	2/540	1/540	8.00	252	1.00	0.123	0.123	86	102	4.09	76	26	3/540	8.00	252	0.123	0	76	9.773	1.530	375	2	0.69	0.09	32	1.00		1.60	0.024	9.18	0.223		0.223	2.19	0.210	0.154	1.78	57.377	57.228	57.377	57.160	57.601	58.260	1714	102	0.10	1/540
2/540	3/540	1/564 2/564 3/564 4/564 1/540 2/540	8.00	252	1.00	0.036	0.036	25	25	6.50	25	0	1/541	8.09	251	0.340	0	193	28.973	5.438	375	2	1.75	0.13	42 46 43 47	0.12	1.00	1.83	0.156	1.75	0.273	2.01	0.312	3.63	1.053	0.181	3.65	56.887	55.311	56.887	55.834	57.199	57.943	1607	25	0.04	2/540
3/540	20/524	1/564 2/564 3/564 4/564 1/540 2/540 3/540	8.00	252	1.00	0.192	0.192	135	193	6.51	111	81	1/539	8.00	252	0.529	0	302	14.042	6.011	375	2	2.74	0.06	34 37	0.37	1.00	2.45	0.382	1.42	0.542		0.542	7.02	0.464	0.232	4.21	55.291	54.447	55.291	54.304	55.834	56.310	1586	193	0.11	3/540
20/524																																											20/524				
1/541	20/524	1/541	8.00	252	1.00	0.088	0.088	61	61	4.77	53	9	1/543	8.00	252	0.088	0	53	9.400	1.515	375	2	0.48	0.08	32	1.00		1.30	0.012	9.70	0.113		0.113	4.12	0.270	0.127	1.61	55.186	55.043	55.186	54.795	55.299	56.021	1680	61	0.07	1/541
1/543	21/524	1/543	8.00	252	1.00	0.272	0.272	190	199	3.98	120	78	1/545	8.00	252	0.272	0	120	5.961	1.005	375	2	1.09	0.06	32	1.00		2.08	0.061	6.67	0.405		0.405	3.46	0.118	0.228	1.71	52.200	52.140	52.200	51.993	52.605	52.940	1743	199	0.13	1/543
21/524																																												21/524			
1/544	22/524	1/544	8.00	252	1.00	0.272	0.272	190	277	3.06	148	129	1/547	8.00	252	0.272	0	148	4.045	1.038	375	2	1.34	0.04	32	1.00		2.35	0.092	5.51	0.508		0.508	3.71	0.082	0.263	1.79	51.232	51.190	51.232	51.078	51.739	52.028	1775	277	0.14	1/544
22/524																																												22/524			
4/564	2/540	1/564 2/564 3/564 4/564	5.00	288	1.00	0.069	0.069	55	55		28	27	1/580	5.34	284	0.181	0	108	34.865	2.278	300	uPVC	1.53	0.24	37 42 43	0.26	1.00	1.76	0.119	1.74	0.207	1.92	0.229	1.50	0.521	0.172	2.58	57.681	56.887	57.681	57.160	57.910	58.750	1264	55		4/564

FOR CONSTRUCTION			
20/08/2020	A	APPROVAL ISSUE	MM PB
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Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
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DESIGNED
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 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR
 PATRICK BRADY
 RPEQ 7112

SCALE
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
STORMWATER CALCULATIONS 1% AEP STORM

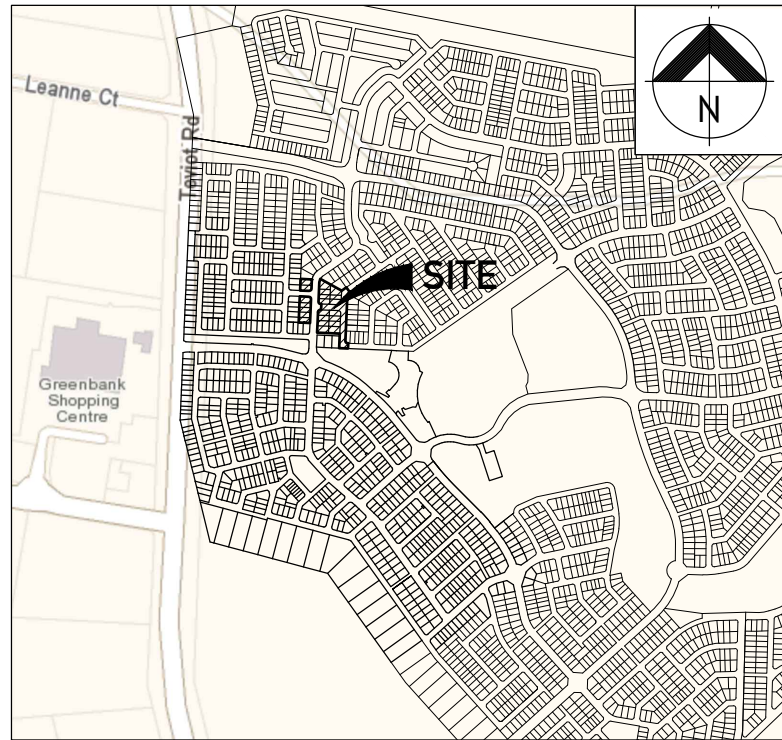
JOB CODE
MIR012-03
 SHEET NUMBER
C441
 REV
A

EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC GROUP

SEWERAGE RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
 LOT 9 on S312355

NAME OF ESTATE	EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT	
SUBDIVIDER	Mirvac Group	
APPLICATION No.	DEV 2018/999	
SP DELEGATE APPROVAL DATE	16/04/2019	
COUNCIL DA APPROVAL No.	-	
DRAWING/PLAN No.	-	
No. OF ALLOTMENTS	22	
AREA ha	1.32	
LENGTH OF SEWERS	DN150 uPVC SN8	31m
	DN225 uPVC SN8	238m

SHEET LIST TABLE	
SHEET NO.	SHEET TITLE
C500	SEWERAGE LOCALITY PLAN & NOTES
C510	SEWERAGE LAYOUT PLAN - SHEET 1
C511	SEWERAGE LAYOUT PLAN - SHEET 2
C520	SEWERAGE LONG SECTIONS
C530	SEWERAGE NOTES AND DETAILS

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 BE 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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	AL	PB
27/07/20	A	ORIGINAL ISSUE		



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

DESIGNED
A LANGDON
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR

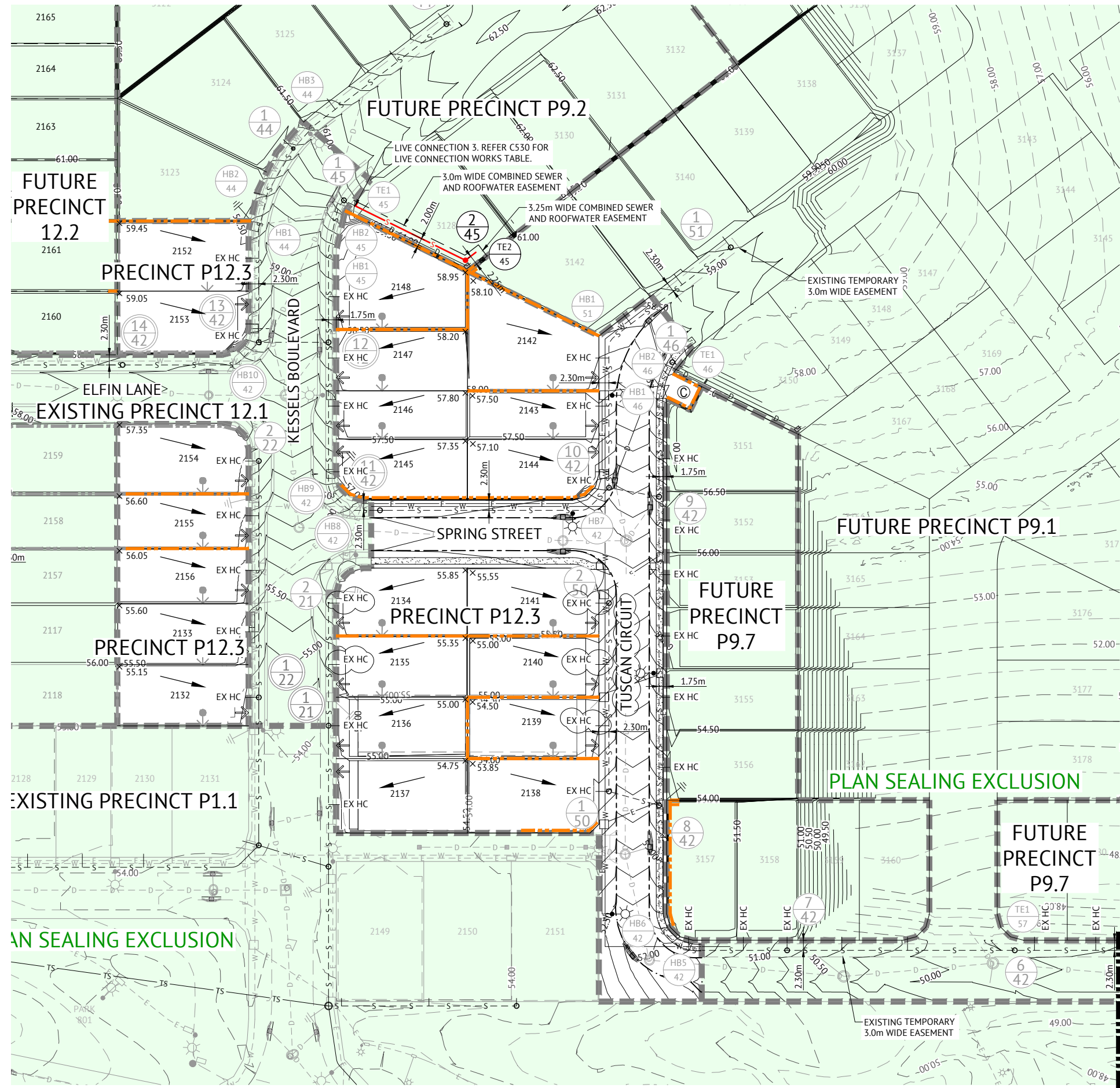
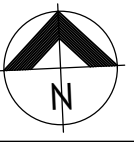
PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:10000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LOCALITY PLAN & NOTES

JOB CODE
MIR012-03
 SHEET NUMBER
C500
 REV
A



EXISTING HOUSE CONNECTION DETAILS

LOT #	INVERT LEVEL	DEPTH
2132	53.692	1.286
2133	54.020	1.250
2134	54.401	1.250
2135	53.790	1.250
2136	53.469	1.410
2137	53.204	1.349
2138	52.352	1.233
2139	52.994	1.188
2140	53.587	1.136
2141	54.116	1.131
2142	56.541	1.250
2143	56.123	1.250
2144	55.308	1.250
2145	55.757	1.250
2146	56.424	1.250
2147	56.864	1.250
2148	57.529	1.250
2152	58.070	1.250
2153	57.347	1.250
2154	55.860	1.250
2155	55.139	1.250
2156	54.564	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).
- 38** LOT NUMBER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- PROPOSED CONCRETE FOOTPATH & KERB RAMP
- STAGE BOUNDARY

LEGEND - EXISTING

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

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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	KK	PB
03/02/2021	C	MOVED PROPERTY CONTROL LOCATIONS, AND AMENDED LEVELS AND ROAD NAME	KK	PB
20/08/2020	B	ADDED TEMPORARY EASEMENTS TO SEWER OUTSIDE OF PRECINCT BOUNDARY	MM	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB
			REC	APP



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 LEVEL 1, 100 BRUNSWICK STREET
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C THORP
 PROJECT DIRECTOR
PATRICK BRADY

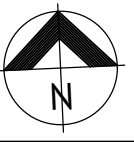
SCALE

 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1






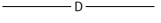
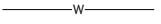
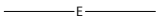
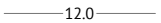





CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LAYOUT PLAN - SHEET 1

JOB CODE
MIR012-03
 SHEET NUMBER
C510
 REV
C




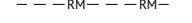
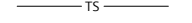
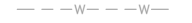

JOINS SHEET 2

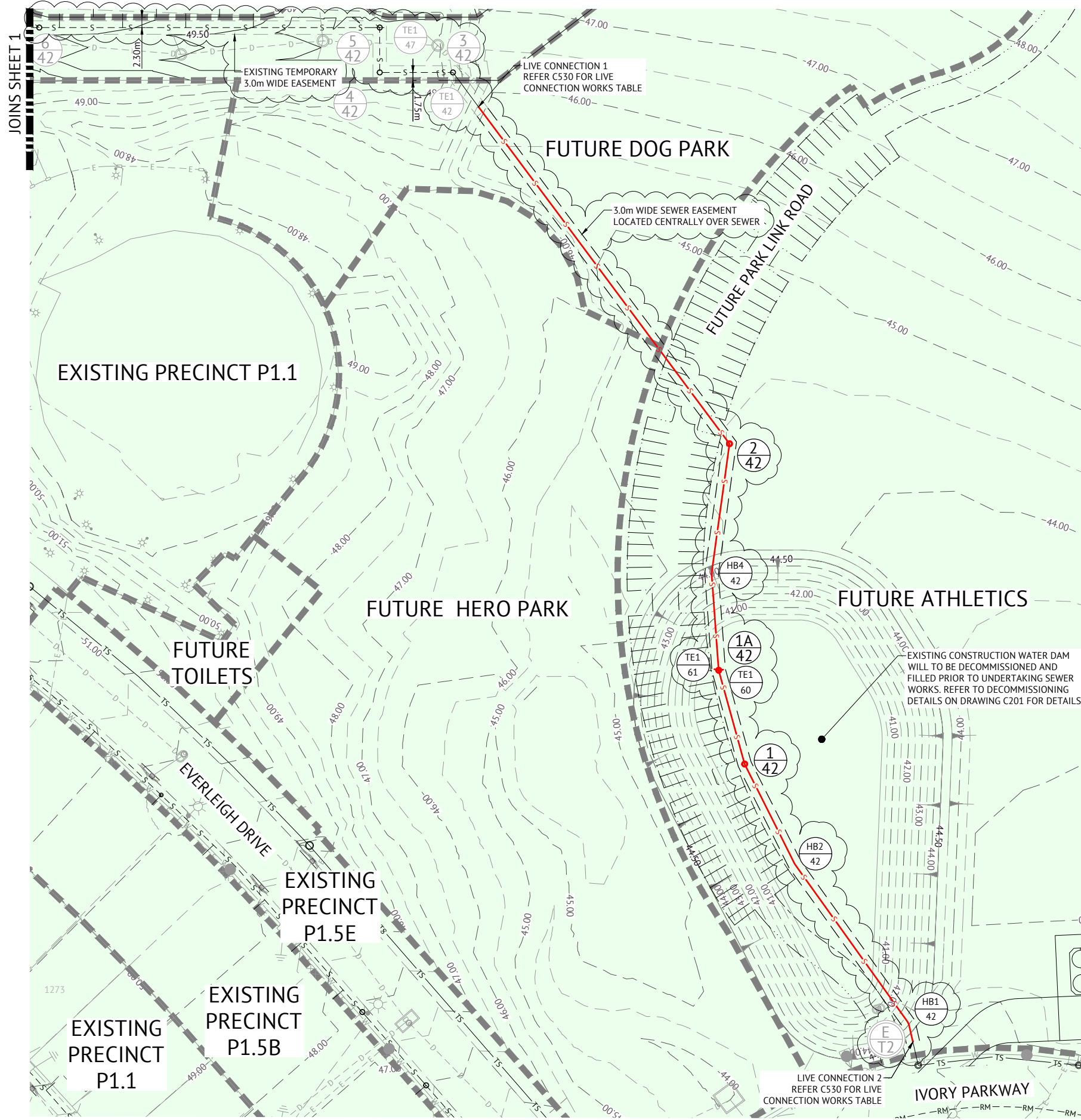


LEGEND - PROPOSED

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

LEGEND - EXISTING

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



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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

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

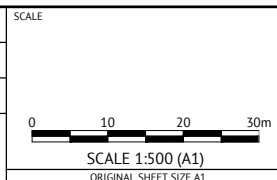
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MM	PB
20/08/2020	B	ADDED TEMPORARY EASEMENTS TO SEWER OUTSIDE OF PRECINCT BOUNDARY	MM	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB
			REC	APP



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

DESIGNED
A LANGDON
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR
[Signature]
PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP

PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
SEWERAGE LAYOUT PLAN - SHEET 2

JOB CODE
MIR012-03

SHEET NUMBER
C511

REV
B

MAINTENANCE HOLE / SHAFT NO.	E/T2	HB1/42	HB2/42	1/42	1A/42	HB4/42	2/42	TE1/42	TE
MH / MS COVER TYPE					B	B		B	
MH / MS TYPE	EX. TE	HTP	HB	HTP	HTP	HB	HTP	A	TE
MH DROP TYPE					V	W	Y	V	
LINE NO.					42	6160	42		42
PROPERTY CONNECTION									
DEPTH									
PROPERTY CONNECTION									
INVERT LEVEL									
PROPERTY CONNECTION									
TYPE									
LOT NO.									

MAINTENANCE HOLE / SHAFT NO.	TE1/45	2/45	TE2/45	1A/42	TE1/60	1A/42	TE1/61	TE
MH / MS COVER TYPE				B	B	B	B	
MH / MS TYPE	EX. TE	J	TE	A	TE	A	TE	
MH DROP TYPE		V		W	Y	V		
LINE NO.		45	45	6160	42	6160	42	

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)
HTP	HORIZONTAL BEND TANGENT POINT

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

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

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

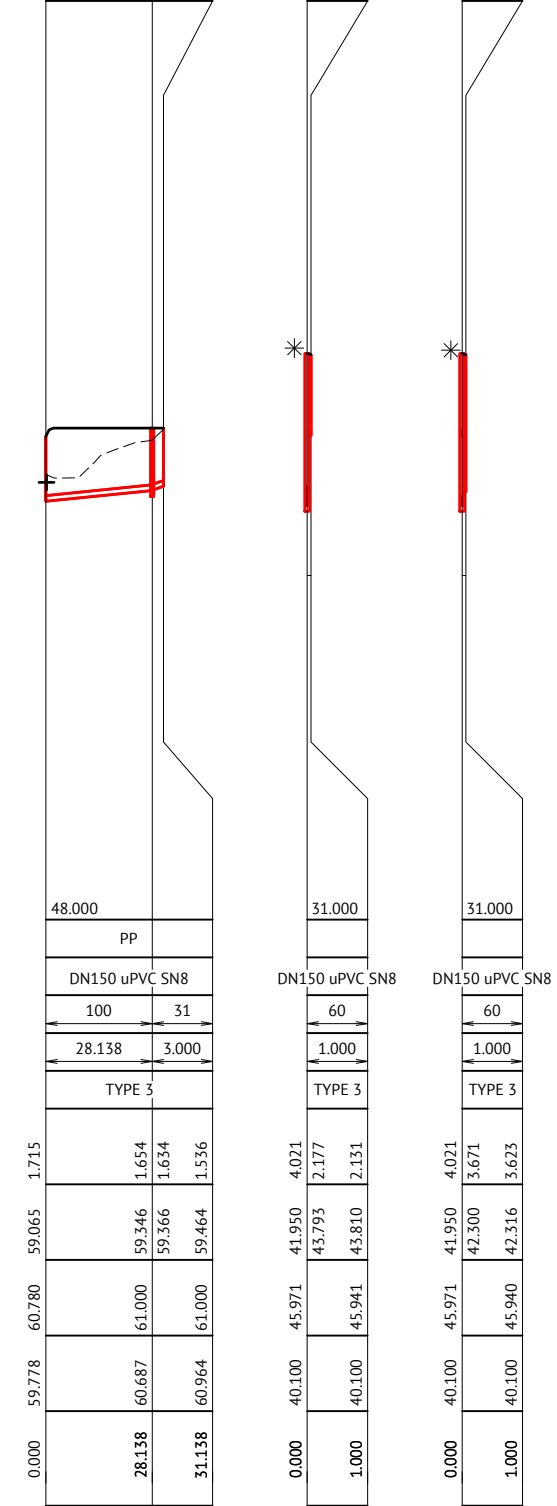
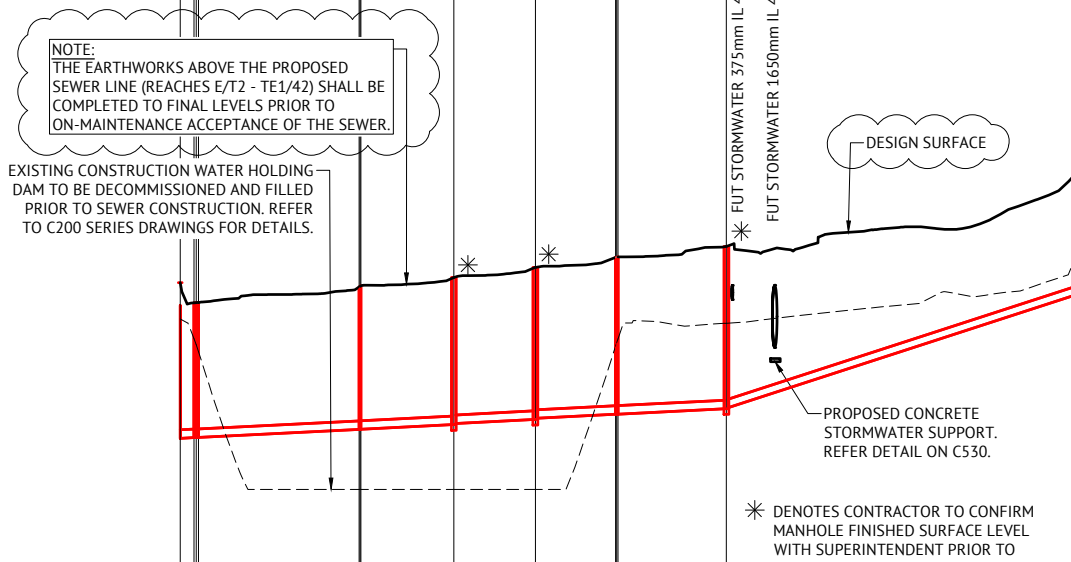
- NOTES:**
 1. EMBEDMENT TYPE 3 SHALL USE CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).
 2. DUCTILE IRON PIPES SHALL HAVE MIN. 1300 MICRON POLYURETHANE INTERNAL LINING.

HORIZONTAL BEND NOTE:
 DEFLECTION ANGLES FOR IN LINE BENDS EXCEEDING 45° SHALL BE ACHIEVED BY THE R.R.J. CONNECTION OF TWO BENDS (MAXIMUM 45° INDIVIDUAL BEND DEFLECTION ANGLE).

PROPERTY CONNECTION NOTE:
 CONTRACTOR TO ENSURE MINIMUM CLEARANCE BETWEEN PROPOSED PROPERTY CONNECTION AND PROPOSED WATER MAIN IS ACHIEVED.

DATUM RL	32.000												
PROPERTY DESCRIPTION	RR												
PIPE SIZE (mm), CLASS	DN225 uPVC SN8												
GRADE (1 IN X)	200	200	200	200	200	200	200	200	200	200	200	200	31
LENGTH	3.658	0.594	0.594	42.500	0.234	0.234	24.587	21.566	21.213	0.316	0.316	28.697	93.129
EMBEDMENT TYPE	TYPE 3												
DEPTH OF INVERT BELOW FSL	4.118	3.564	3.566	3.568	3.766	3.780	3.793	3.889	3.859	4.021	3.991	4.151	3.262
INVERT LEVEL (IL)	41.450	41.468	41.471	41.474	41.687	41.688	41.689	41.812	41.842	41.950	41.980	42.086	45.268
FINISHED SURFACE LEVEL (FSL)	45.568	45.032	45.037	45.043	45.453	45.468	45.482	45.701	45.971	46.247	46.247	46.525	48.530
EXISTING SURFACE LEVEL (ESL)	44.608	44.085	43.923	43.743	40.100	40.100	40.100	40.100	40.100	43.885	43.983	44.077	46.429
CHAINAGE (CH)	0.000	TP 3.658	IP 4.252	TP 4.846	TP 47.345	IP 47.579	TP 47.814	72.400	IP 93.967	TP 115.179	IP 115.496	TP 115.812	TP 237.659

LINE 42



45 60 61

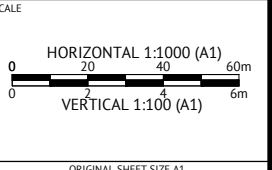
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	MM	PB
08/09/2020	C	INTERIM EARTHWORKS REMOVED. FINAL EARTHWORKS TO BE COMPLETED PRIOR TO ON MAINTENANCE	MM	PB
20/08/2020	B	ADDED CLEARANCES TO SERVICE CROSSING TEXTS AND ADDED SHAFT SIZE TO TYPE J MS	MM	PB
27/07/20	A	ORIGINAL ISSUE	AL	PB



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

DESIGNED
A LANGDON
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR
 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
SEWERAGE LONG SECTIONS

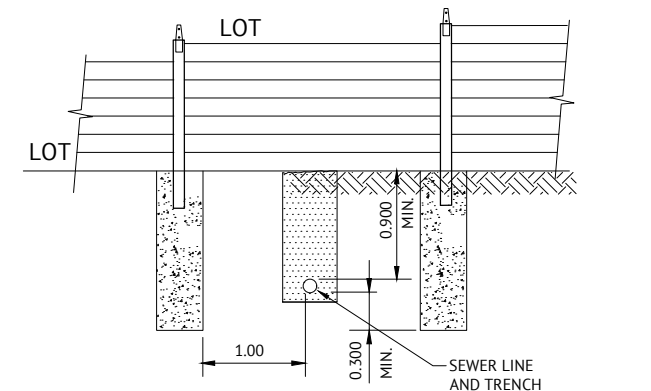
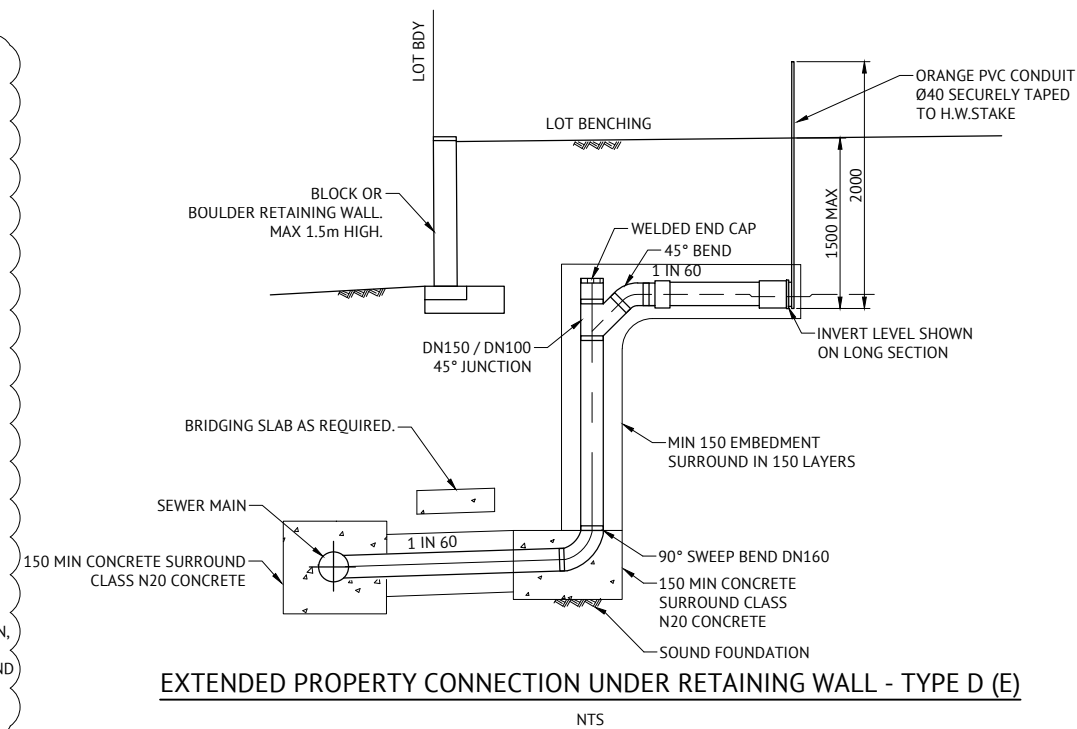
JOB CODE
MIR012-03
 SHEET NUMBER
C520
 REV
C

LIVE SEWER WORKS

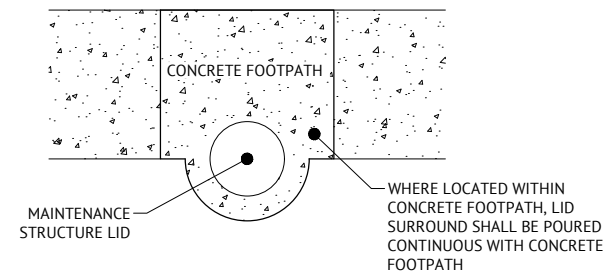
No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L. (FUT)	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP TE1/42, CONSTRUCTOR TO LAY NEW LINE 42. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	225	TE1/42	END	-	PARK	48.530	46.429	45.268	3.262
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 42 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP E/T2, CONSTRUCTOR TO LAY NEW LINE 42. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	225	E/T2	END	-	PARK	45.568	44.608	41.450	4.118
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 42 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP TE1/45, CONSTRUCTOR TO LAY NEW LINE 45. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	TE1/45	END	-	3128	60.780	60.780	59.065	1.715
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 45 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

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

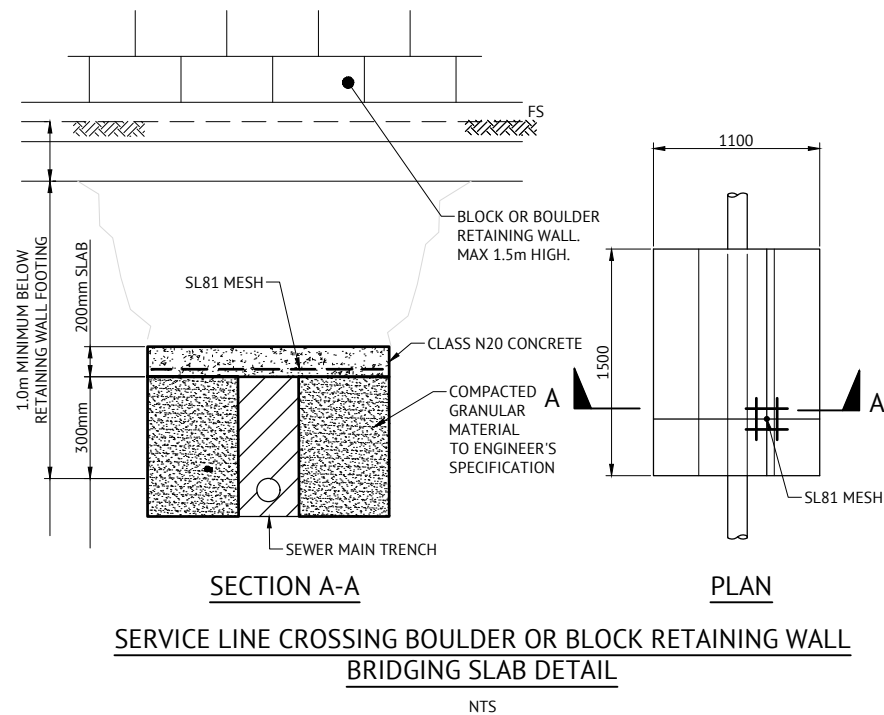
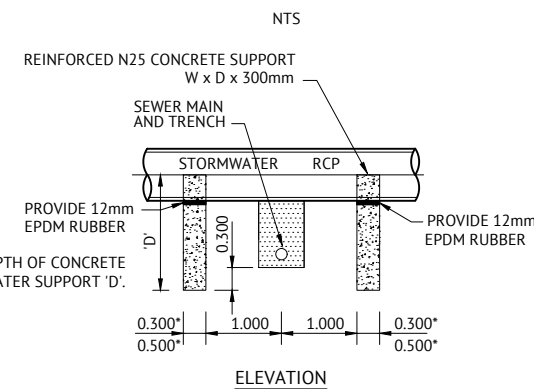
CONSULTING ENGINEERS ARE TO CONTACT PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR THIS WORK TO BE CARRIED OUT. (EXCAVATION, SAFE-SHORTING AND ASSOCIATED WORK BY CONTRACTOR). EXCAVATION WORKS CARRIED OUT BY CONTRACTORS AT DEPTH OF 1.5m OR GREATER MUST PROVIDE A "SAFE WORK PLAN" AS PER WORKPLACE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



SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL



TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL



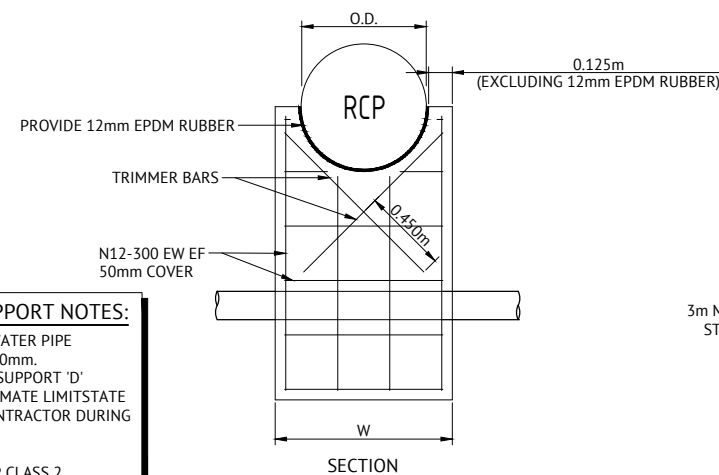
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

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

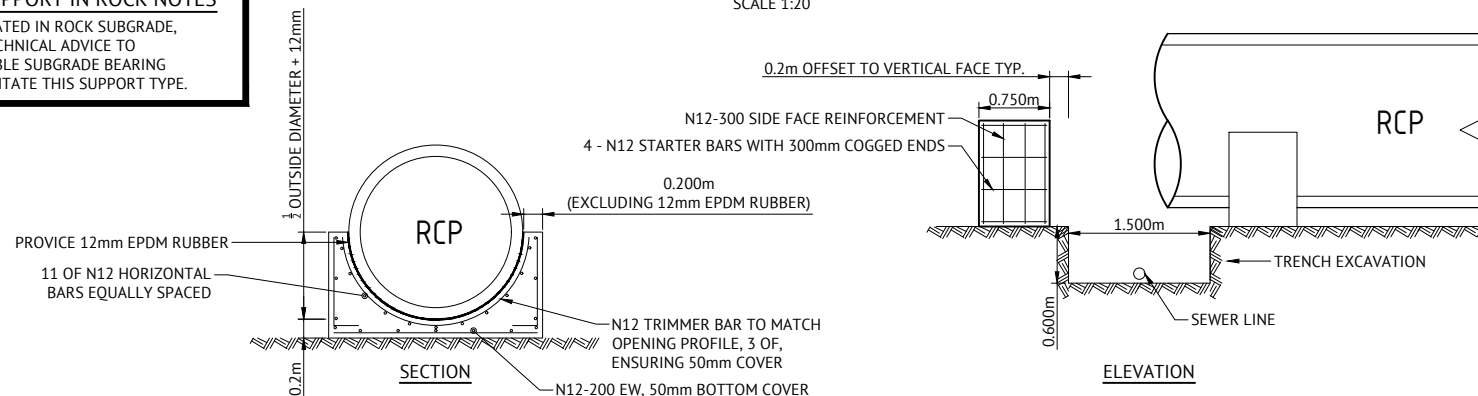
CONCRETE STORMWATER SUPPORT IN ROCK NOTES

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
B. Hooper
BRIONY HOOPER RPEQ 10854

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
20/08/2020	A	ADDED LIVE CONNECTION 3 DETAILS		PB
27/07/20		ORIGINAL ISSUE		PB

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

DESIGNED
A LANGDON
CHECKED
M MAJZNER
PROJECT MANAGER
R LLEWELYN
PROJECT DIRECTOR
Patrick Brady
RPEQ 7112

SCALE
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
SEWERAGE NOTES AND DETAILS

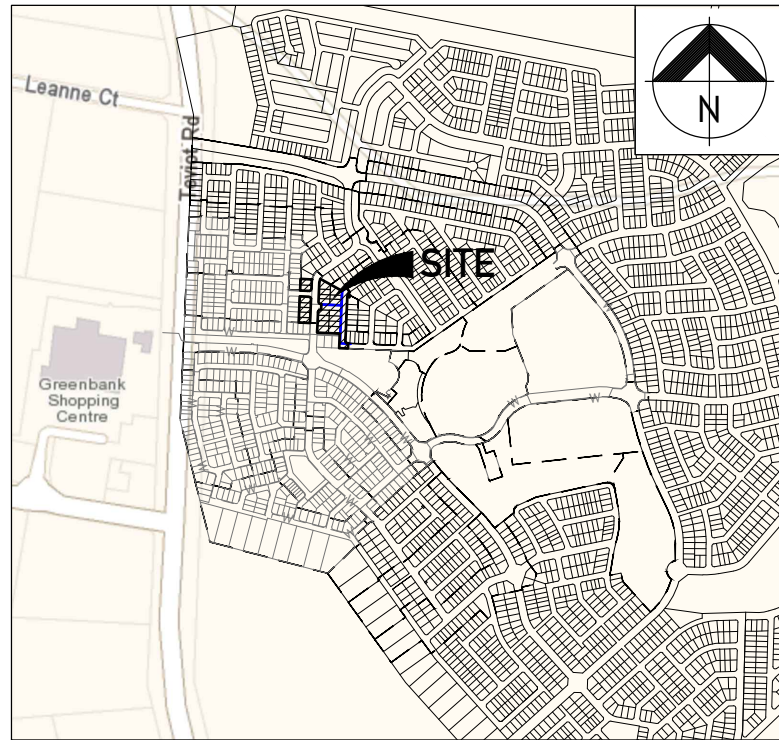
JOB CODE
MIR012-03
SHEET NUMBER
C530
REV
B

EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC GROUP

WATER RETICULATION



LOCALITY PLAN

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
 LOT 9 on S312355

SHEET LIST TABLE

SHEET NO.	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C610	WATER RETICULATION LAYOUT PLAN - SHEET 1

GENERAL NOTES

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

VEGETATION PROTECTION

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

CONSTRUCTION REQUIREMENTS

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

TRENCH SPOIL NOTE:

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

EXCAVATION IN ROCK NOTE:

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

INDEMNITY - EXISTING SERVICES

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

RPEQ CERTIFICATION

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

INSPECTION REQUIREMENTS

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

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

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

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

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

SEQ CODE STD DRAWING SCHEDULE

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



FOR CONSTRUCTION



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

DESIGNED
K KIWANG
 CHECKED
M MAJZNER
 PROJECT MANAGER
R LLEWELYN
 PROJECT DIRECTOR

PATRICK BRADY RPEQ 7112

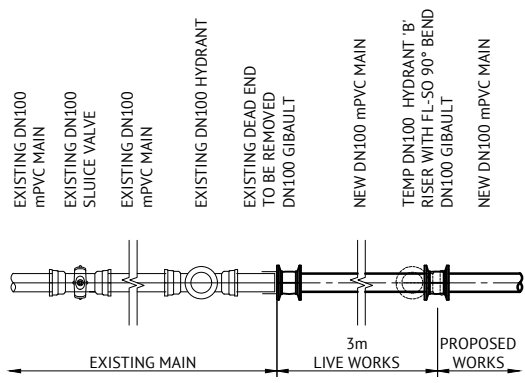
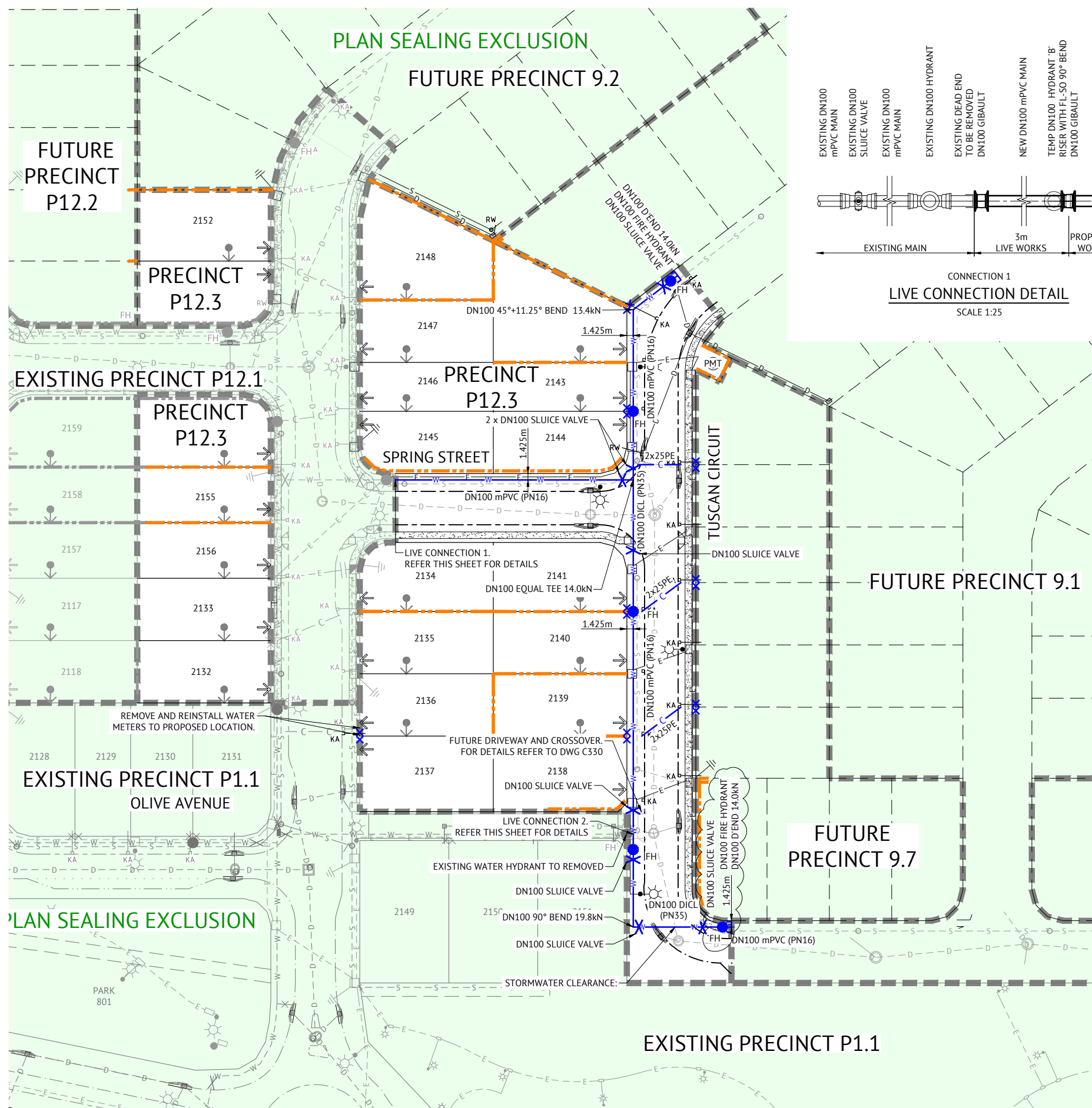
SCALE

 SCALE 1:10000 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE
MIR012-03
 SHEET NUMBER
C600
 REV
A

DATE	REV	DESCRIPTION	KK	PB
27/07/20	A	ORIGINAL ISSUE	KK	PB
REVISIONS				

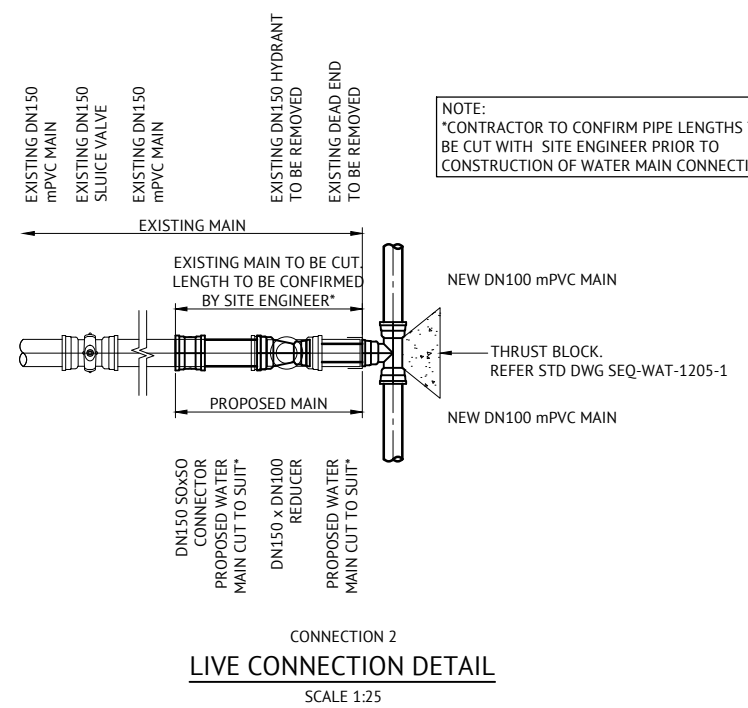


LEGEND - PROPOSED

- POTABLE WATER MAIN
- POTABLE WATER RETICULATION CONDUIT
- WATER SERVICES & WATER METER BOX POINT. METER BY OTHERS
- SLUICE VALVE
- FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION
- 38
- D
- S
- RM
- E
- ZERO LOT BOUNDARY
- PREFERRED DRIVEWAY LOCATION (BY OTHERS)
- SITE BOUNDARY
- PROPOSED RETAINING WALL
- PMT

LEGEND - EXISTING

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



NOTE:
*CONTRACTOR TO CONFIRM PIPE LENGTHS TO BE CUT WITH SITE ENGINEER PRIOR TO CONSTRUCTION OF WATER MAIN CONNECTION

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

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

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
03/03/2021	C	MOVED END OF LINE ON TUSCAN CIRCUIT	KK PB
03/02/2021	B	MOVED WATER METERS AND FIRE HYDRANT, REALIGN CONDUITS, AMENDED ROAD NAME	KK PB
27/07/20	A	ORIGINAL ISSUE	KK PB
			REC APP

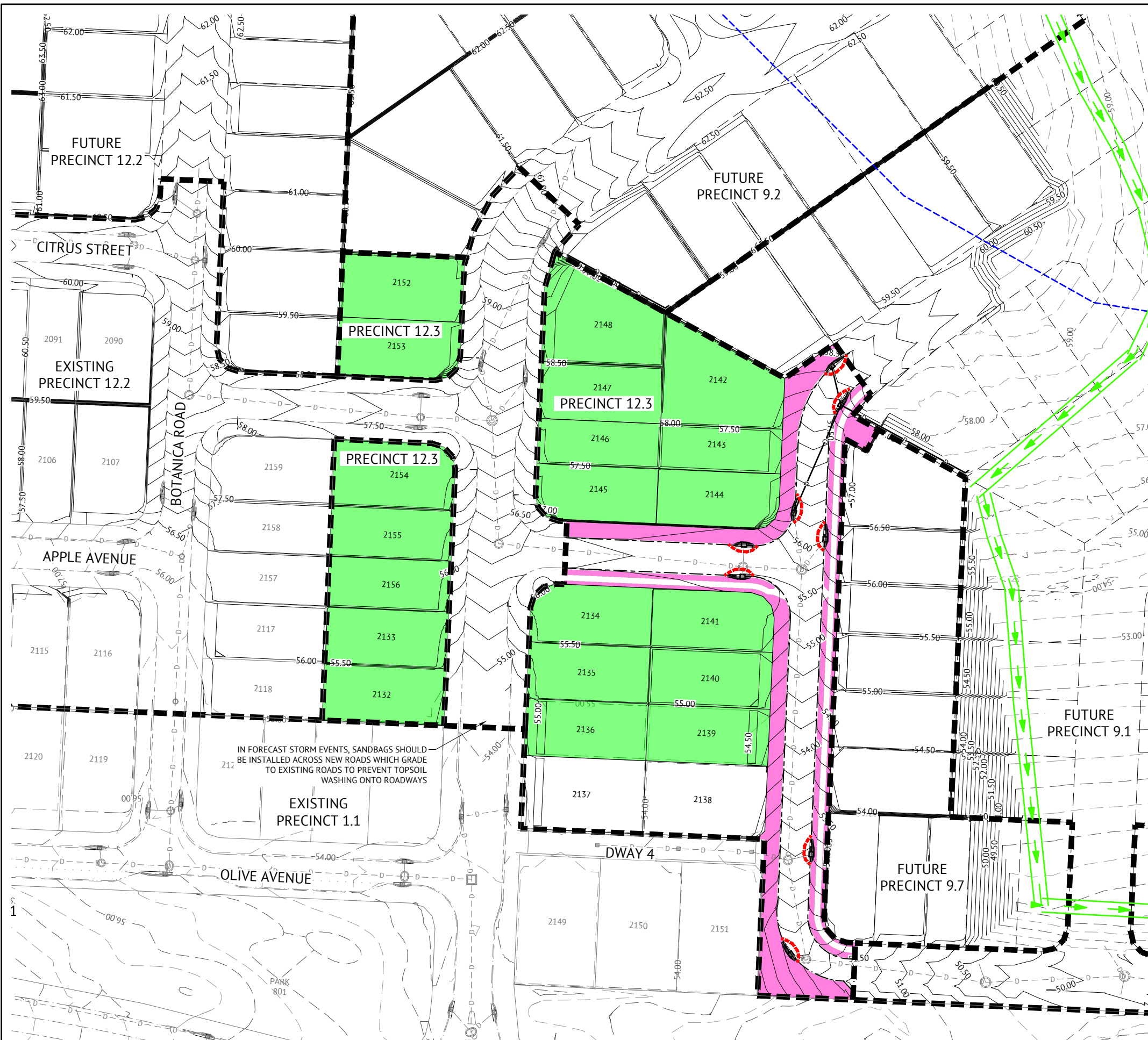
Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED: K KIWANG
CHECKED: M MAJZNER
PROJECT MANAGER: S STEINHOFER
PROJECT DIRECTOR: PATRICK BRADY
RPEQ 7112

SCALE
0 10 20 30m
SCALE 1:500 (A1)
0 0.5 1.0 1.5m
SCALE 1:25 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC GROUP
PROJECT: EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: WATER RETICULATION LAYOUT PLAN

JOB CODE: M1R012-03
SHEET NUMBER: C610
REV: C



LEGEND - PROPOSED

- PROPOSED STORMWATER
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING
- 100mm THICK TOPSOIL AND TURF
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING DIRTY WATER DIVERSION BUND.
- EPBC BOUNDARY

SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE

- STEP 6 PAVEMENT CONSTRUCTION
MAINTAIN SILT FENCES, AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION.
 - STEP 7 MAINTENANCE PERIOD
MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.
 - STEP 8 REMOVE CONSTRUCTION ENTRANCES.
- ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

NOTES

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. CONTRACTOR TO ENSURE THAT GRASS SEEDED AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.
4. FOR STABILISATION MEASURES OF FUTURE PRECINCTS, REFER TO M1012-01 - C730 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE.

TURFING AND TOPSOIL NOTE

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

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

CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION	
20/08/2020	PB 1 APPROVAL ISSUE
DD/MM/YYYY	PRELIMINARY - NOT FOR CONSTRUCTION
DATE	REV DESCRIPTION
	REVISIONS

Premise
 BRISBANE OFFICE
 LEVEL 1, 100 BRUNSWICK STREET
 PO BOX 361
 FORTITUDE VALLEY, QLD 4006
 PH: (07) 3253 2222
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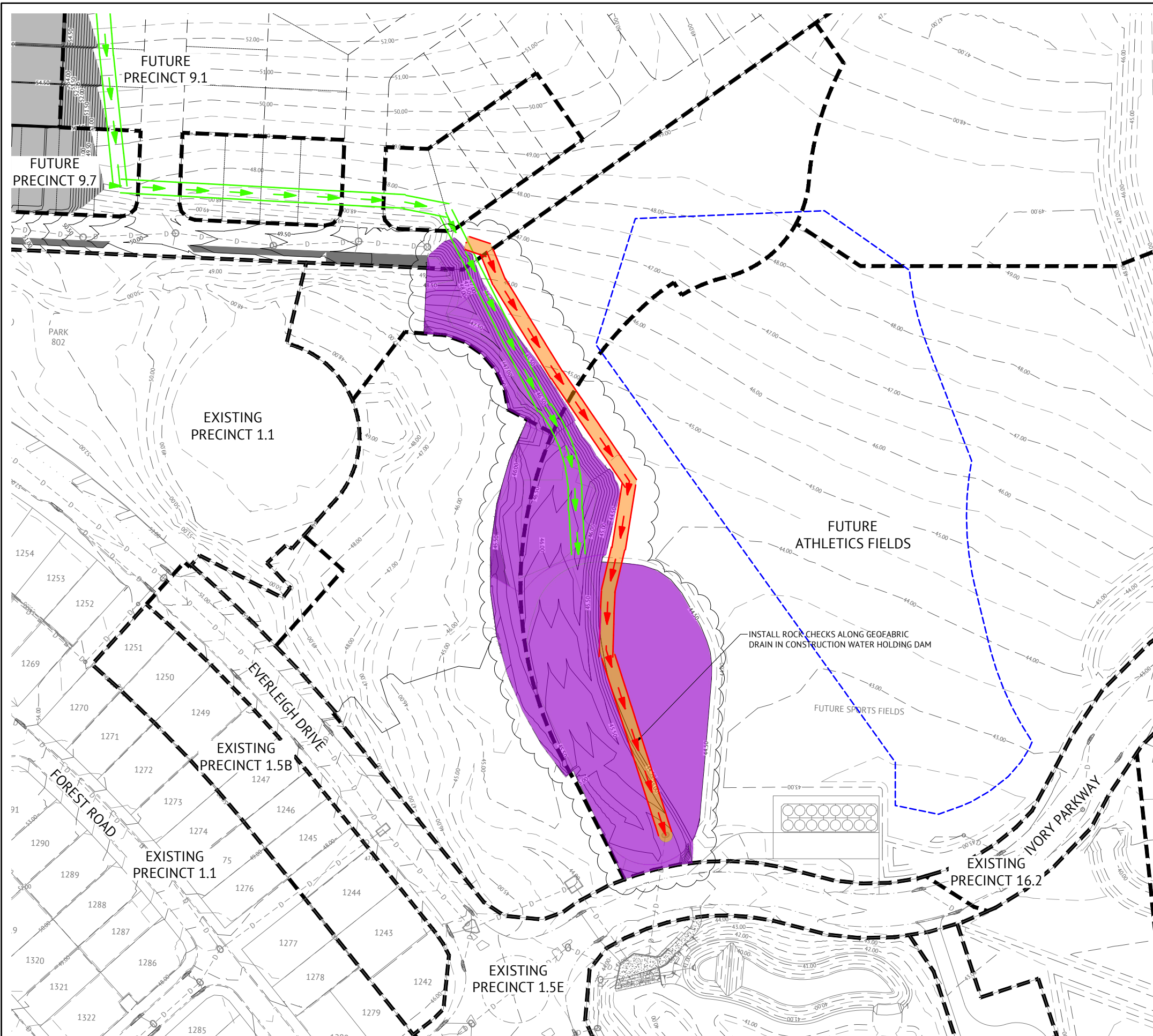
 PATRICK BRADY RPEQ 7112

SCALE

 SCALE 1:500 (A1)
 ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE - SHEET 1

JOB CODE	
M1012-03	
SHEET NUMBER	REV
C700	A



LEGEND - PROPOSED

- PROPOSED STORMWATER
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING
- 100mm THICK TOPSOIL AND TURF
- NO TOPSOIL AND POLYMER SPRAY
- GEOFABRIC LINING
- DIRTY WATER DIVERSION BUND
- FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- 12.0 MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- EXISTING DIRTY WATER DIVERSION BUND.
- EPBC BOUNDARY

SERVICE TRENCH AND ROAD CONSTRUCTION SEQUENCE

- STEP 6**
PAVEMENT CONSTRUCTION
MAINTAIN SILT FENCES, AND CATCH DRAINS WHICH CONTROL SEDIMENTATION AND EROSION DURING PAVEMENT CONSTRUCTION.
- STEP 7**
MAINTENANCE PERIOD
MAINTAIN CONTROL AND ESC AND VEGETATIVE TREATMENTS WHICH CONTROL SEDIMENTATION AND EROSION PRIOR TO THE ESTABLISHMENT OF STABILIZED GRASS COVER.
- STEP 8**
REMOVE CONSTRUCTION ENTRANCES.
- ADDITIONAL EROSION CONTROLS ARE TO BE ERECTED AND MONITORED AS REQUIRED BY THE SUPERINTENDENT

NOTES

1. REFER EROSION AND SEDIMENT CONTROL NOTES AND DETAILS DRAWINGS.
2. ALL FOOTPATHS ARE TO BE FULLY TURFED AS SOON AS PRACTICAL.
3. CONTRACTOR TO ENSURE THAT GRASS 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 M1012-01 - C730 EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE.

TURFING AND TOPSOIL NOTE

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

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

CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION			
DATE	REV	DESCRIPTION	REVISIONS
23/09/2020	B	AMENDED EARTHWORKS EXTENT	KK
20/08/2020	A	APPROVAL ISSUE	MM PB
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC APP



BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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DESIGNED
C HUTTON
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M MAJZNER
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R LLEWELYN
PROJECT DIRECTOR
 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP

PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT

LOCATION
TEVIOT ROAD, GREENBANK

SHEET TITLE
EROSION AND SEDIMENT CONTROL - STABILISATION PHASE - SHEET 2

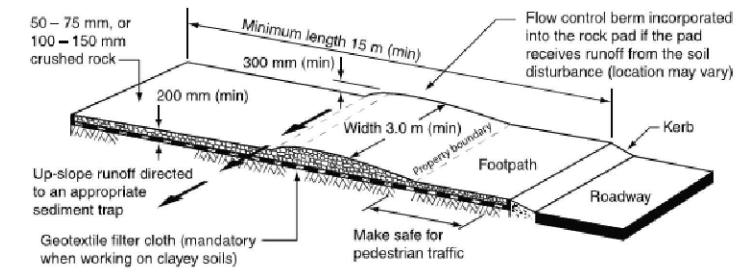
JOB CODE		M1012-03	
SHEET NUMBER	REV	C701	B

EROSION & SEDIMENT CONTROL NOTES

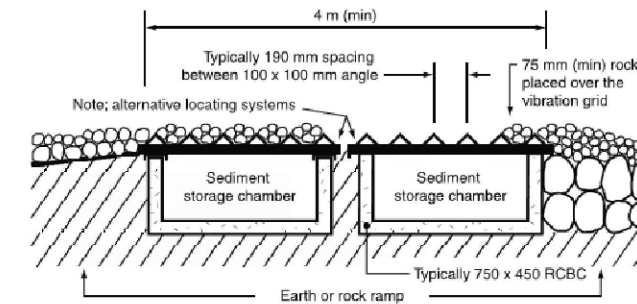
- LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
- ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED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

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

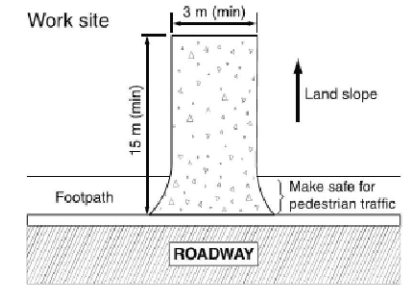
- INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
- STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
- STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
- ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS,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



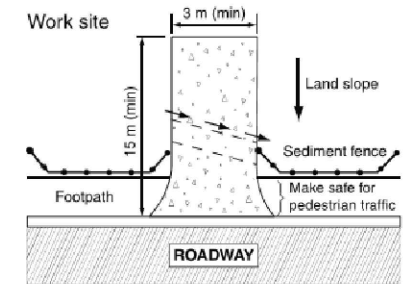
(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)



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



(b) Rock pad sloping away from road



(d) Rock pad sloping towards the road

CONSTRUCTION ENTRANCE DETAIL

MATERIALS

COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.

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

(ii) MAXIMUM OF 1% OF INERT MATERIAL.

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

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

INSTALLATION

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

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

(i) TOTALLY WITHIN THE PROPERTY BOUNDARIES;

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

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

(iv) AWAY FROM AREAS OF CONCENTRATED FLOW.

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

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

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

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

6. ENSURE 100% CONTACT WITH THE SOIL SURFACE.

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

MAINTENANCE

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

2. REPAIR OR REPLACE ANY DAMAGED SECTIONS.

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

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

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

REMOVAL (IF REQUIRED)

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

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

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

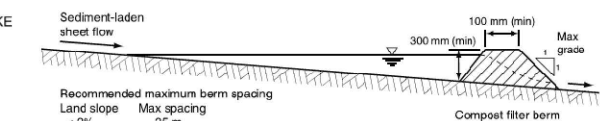


Figure 1 - Typical profile of a compost filter berm

MULCH BUND DETAIL

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

Chris Hutton
CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION

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20/08/2020	PB	APPROVAL ISSUE		
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LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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PROJECT DIRECTOR
R Brady
PATRICK BRADY RPEQ 7112

SCALE
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1 OF 2

JOB CODE
MIR012-03
SHEET NUMBER
C710
REV
A

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.

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

C. Hutton
CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION



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SCALE

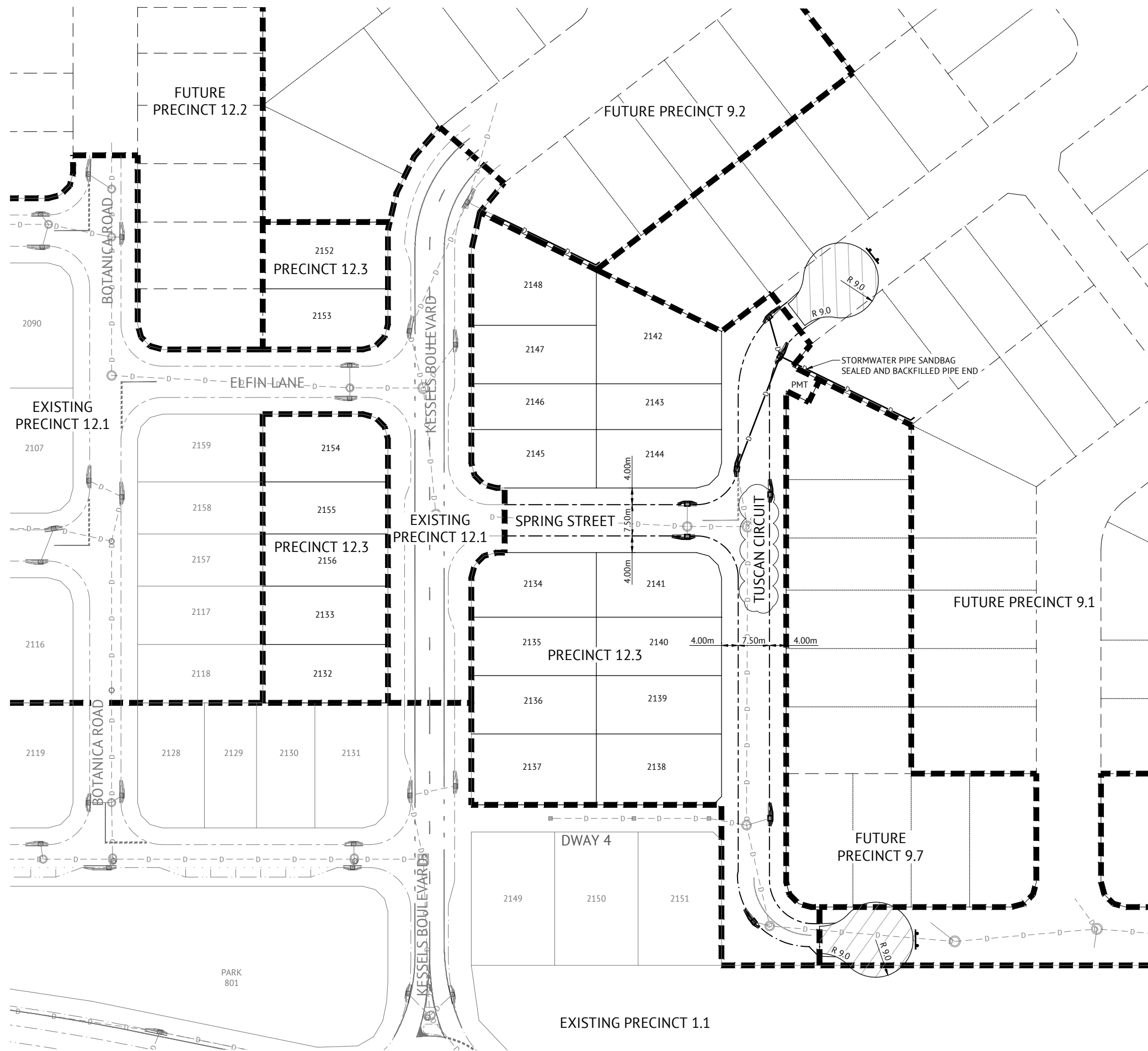
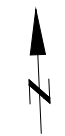
ORIGINAL SHEET SIZE A1

CLIENT
MIRVAC GROUP
PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
LOCATION
TEVIOT ROAD, GREENBANK
SHEET TITLE
EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2 OF 2

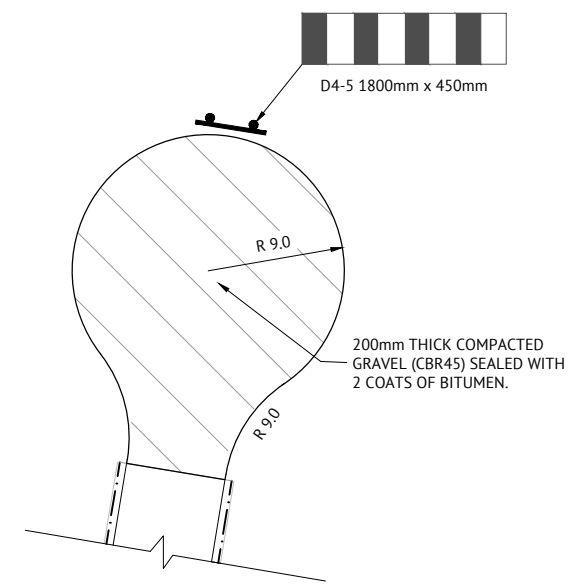
JOB CODE
MIR012-03
SHEET NUMBER
C711
REV
A

DATE	REV	DESCRIPTION	MM	PB
20/08/2020	PB	APPROVAL ISSUE		
	1	PRELIMINARY - NOT FOR CONSTRUCTION	REC	APP
			REC	APP

REVISIONS



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




TYPICAL TEMPORARY TURN AROUND DETAIL
 SCALE: 1:250

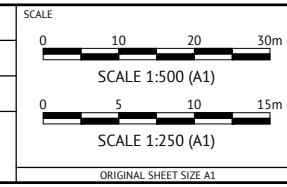
FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REVISIONS	KK	PB
04/02/2021	B	AMENDED ROAD NAME			
20/08/2020	A	APPROVAL ISSUE			
DD/MM/YYYY	1	PRELIMINARY - NOT FOR CONSTRUCTION			



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

DESIGNED
K KIWANG
 CHECKED
M MAJZNER
 PROJECT MANAGER
C THORP
 PROJECT DIRECTOR

 PATRICK BRADY RPEQ 7112



CLIENT
MIRVAC GROUP
 PROJECT
EVERLEIGH PRECINCT 12.3 SUBDIVISION DEVELOPMENT
 LOCATION
TEVIOT ROAD, GREENBANK
 SHEET TITLE
TEMPORARY WORKS - ROADWORKS AND DRAINAGE

JOB CODE
MIR012-03
 SHEET NUMBER
C900
 REV
B