EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC

SHEET LIST TABLE

GENERAL NOTES

1. ALL DIMENSIONS GIVEN ON THESE DRAWINGS ARE IN METRES UNLESS NOTED OTHERWISE.
2. ALL NEW WORK AND MATERIALS SHALL COMPLY CURRENT RELEVANT COUNCIL STANDARDS AND SPECIFICATIONS.
3. ALL WORK SHALL BE JOINED NEATLY TO EXISTING CONSTRUCTION.
4. THE CONTRACTOR IS TO LOCATE, IDENTIFY AND ESTABLISH THE CONNECTIVITY OF ALL EXISTING SERVICES WITHIN THE LIMITS OF PROPOSED WORKS AND CONFIRM THIS INFORMATION WITH THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEASURING DEVICES, SAFETY EQUIPMENT AND MACHINERY REQUIRED TO CARRY OUT INSPECTIONS/MEETINGS AS SPECIFIED OR REQUESTED BY THE ENGINEER.
6. 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.
7. THESE NOTES SHALL APPLY TO ALL PORTIONS OF WORK.
8. THE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS. ANY POINT OF CONFLICT WILL BE RESOLVED BY THE SUPERINTENDENT.

NOISE

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

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

PRE-CONSTRUCTION & APPROVALS

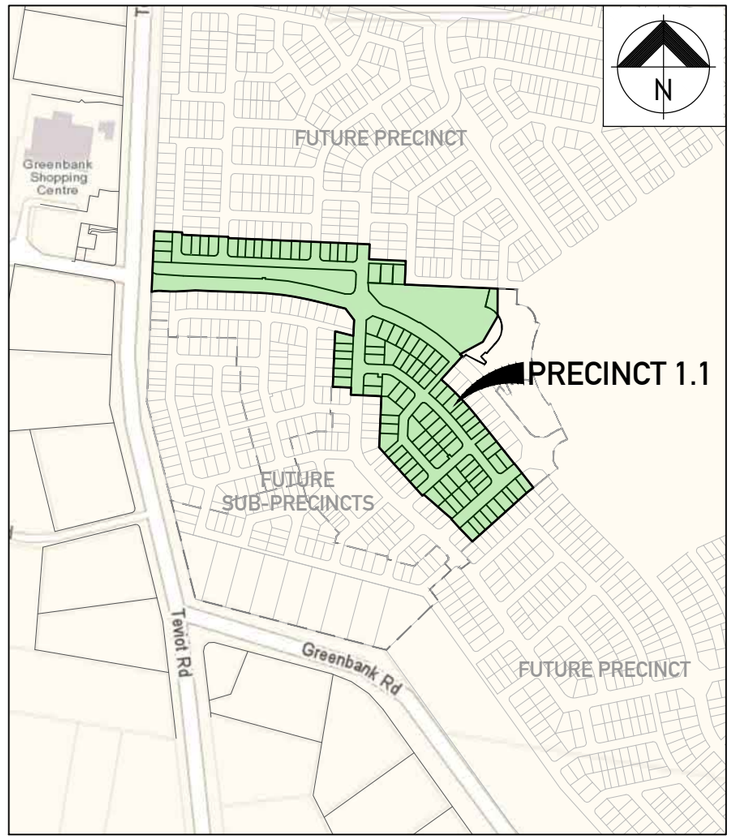
1. NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
2. THE CONTRACTOR IS RESPONSIBLE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

WORKPLACE HEALTH & SAFETY

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

SETOUT NOTES

1. CO-ORDINATE SETOUT PROVIDED ON THESE DRAWINGS IS BASED ON A CO-ORDINATE BASE PROVIDED BY SAUNDERS HAVILL GROUP. REFERENCE MARKS AND CORRESPONDING CO-ORDINATES ARE PROVIDED ON DRAWING C002.
2. THE LEVEL DATUM FOR WORKS IS A.H.D (AUSTRALIAN HEIGHT DATUM).



LOCALITY PLAN

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

Premise

27/06/18 CONSTRUCTION ISSUE

PROJECT DIRECTOR	DATE	RPEQ	DATE	REVISION
JOSHUA STONE		KEITH HOWELLS RPEQ 7295		C

FUTURE PRECINCT 9

FUTURE PRECINCT 1.3

FUTURE PRECINCT 1.4

FUTURE PRECINCT 1.5

FUTURE PRECINCT 1.2

FUTURE PRECINCT 1.5

FUTURE PRECINCT

FUTURE PRECINCT 2

PRECINCT 1.1

PARK 801

PARK 801

PARK 802

DWAY 4

OLIVE AVENUE

OLIVE AVENUE

EVERLEIGH DRIVE

EVERLEIGH DRIVE

TEVIOT ROAD

MOSS STREET

BOTANICA ROAD

KESSELS BOULEVARD

KESSELS BOULEVARD

FOREST ROAD

VINE WAY

VINE WAY

FOREST ROAD

GROVE STREET

EMERALD PARADE

ROAD 4

N

LEGEND

PROPOSED ROAD CENTRELINE

STAGE BOUNDARY

SURVEY ORIGIN

ORIGIN - PM61308
R.L - 54.660m A.H.D

SITE AREA

107856m²

REAL PROPERTY DESCRIPTION

LOT 2 on SP297192

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

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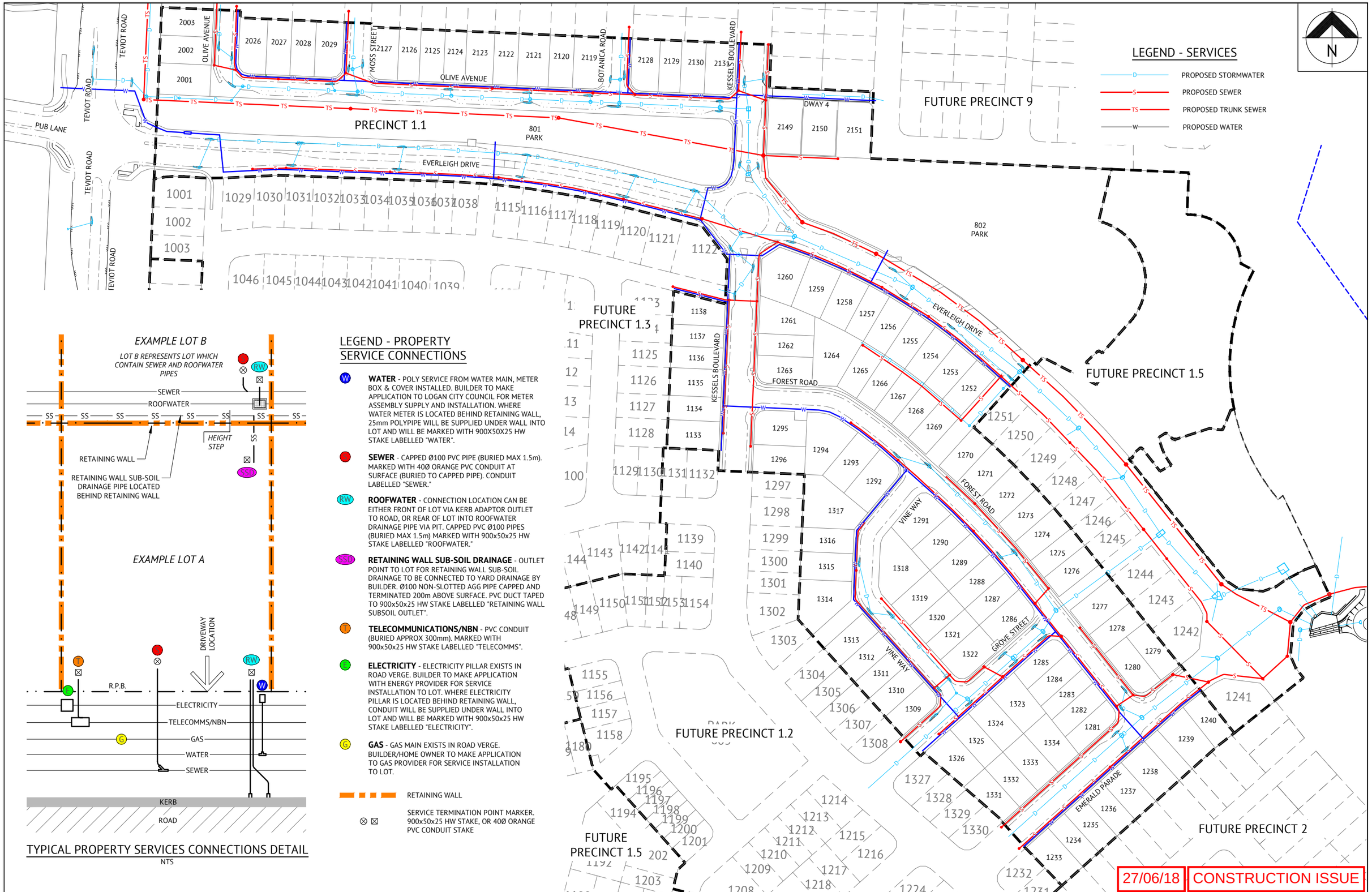
DESIGNED	MM	RPEQ	DATE
CHECKED	JS		10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	10/11/17	0 20 40 60m	
		SCALE 1:1000 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SURVEY SETOUT PLAN

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C002	B



EXAMPLE LOT B

LOT B REPRESENTS LOT WHICH CONTAIN SEWER AND ROOFWATER PIPES

EXAMPLE LOT A

TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL

NTS

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
26/05/18	D	TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL ADDED	KH
12/01/18	C	SERVICE ALIGNMENTS UPDATED	KH
10/11/17	B	MINOR AMENDMENTS	KH
06/10/17	A	ORIGINAL ISSUE	KH

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DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS RPEQ 7295	26/03/18
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE	AS SHOWN	
JOSHUA STONE	26/03/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OVERALL SERVICES LAYOUT

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C003	D

DESIGN HAZARD NOTES:

1. Premise Australia Pty Ltd, having been commissioned to carry out detailed design and documentation of these Works, confirm that the Premise Australia drawing set has been internally reviewed for Design Safety in accordance with section 22 of the Work Health and Safety Act 2011 QLD.
2. This report summarises an internal review of Premise Australia's detailed design drawings for design safety.
3. This report in no way relieves the Principal, Contractor or any other party of their own obligations and responsibilities under the Work Health and Safety Act 2011 QLD, including (but not limited to) consultation with the Designer under Section 294 of the Act, the preparation of satisfactory Safe Work Method Statements and Duties of Care.
4. It is a requirement under Section 296 of the Work Health and Safety Act 2011 Qld, that a copy of this Report be provided to the Contractor by the entity commissioning the work shown of the Premise Australia drawings.
5. As per the Department of Justice and the Attorney-General- Workplace Health and Safety Queensland, a written report is not required for designs that have typical features.

CONSEQUENCE TABLE

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

CONSTRUCTION HAZARD NOTES:

1. Under the Queensland Work Health and Safety Act 2011, the Work Health and Safety Regulation 2011 and other legislation and guidelines, the Principal Contractor has specific obligations in relation to the safe operation of the site and of the Works.
   To assist the Principal Contractor in complying with these obligations the Project Designers have identified by Drawing Notes, areas where potential hazards may arise. These notes or advice, shall not necessarily be considered complete and are based upon the Designers' understanding of the safety risks associated with the works.
   These notes or advice shall not relieve the Principal Contractor of any obligation under the relevant legislation or guideline. The Principal Contractor shall remain responsible for the preparation of an appropriate Work Health Safety Management Plan and Safe Work Method Statements for the site.
2. Pursuant to the Work Health and Safety Act 2011 we hereby advise that our design safety review has identified unusual or atypical design features that may present additional hazards or risks during the construction phase and these are listed in the CONSTRUCTION HAZARD SCHEDULE.

RISK ANALYSIS MATRIX

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

RISK EVALUATION TABLE

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

LIKELIHOOD TABLE

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

DESIGN HAZARD SCHEDULE

ITEM	DESIGN HAZARD	POTENTIAL HAZARD	RISK	ELIMINATION / MINIMISATION OF HAZARD / RISK	RESIDUAL RISK
D1	Road Design Hazard	A section of road does not meet the Logan City Council, Department and Austroad guidelines due to: - Insufficient sight distance through the intersection. - Insufficient crest curves.	Medium	The road has been designed in accordance with the relevant codes where possible and to reduce/eliminate the hazard the following measures have been implemented:- - Warning signs and signals.	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 road 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

CONSTRUCTION HAZARD SCHEDULE

ITEM	POTENTIAL HAZARD	POSSIBLE PREVENTATIVE ACTION
C1	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.
C2	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.
C3	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.
C4	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.
C5	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.
C6	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.
C7	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.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

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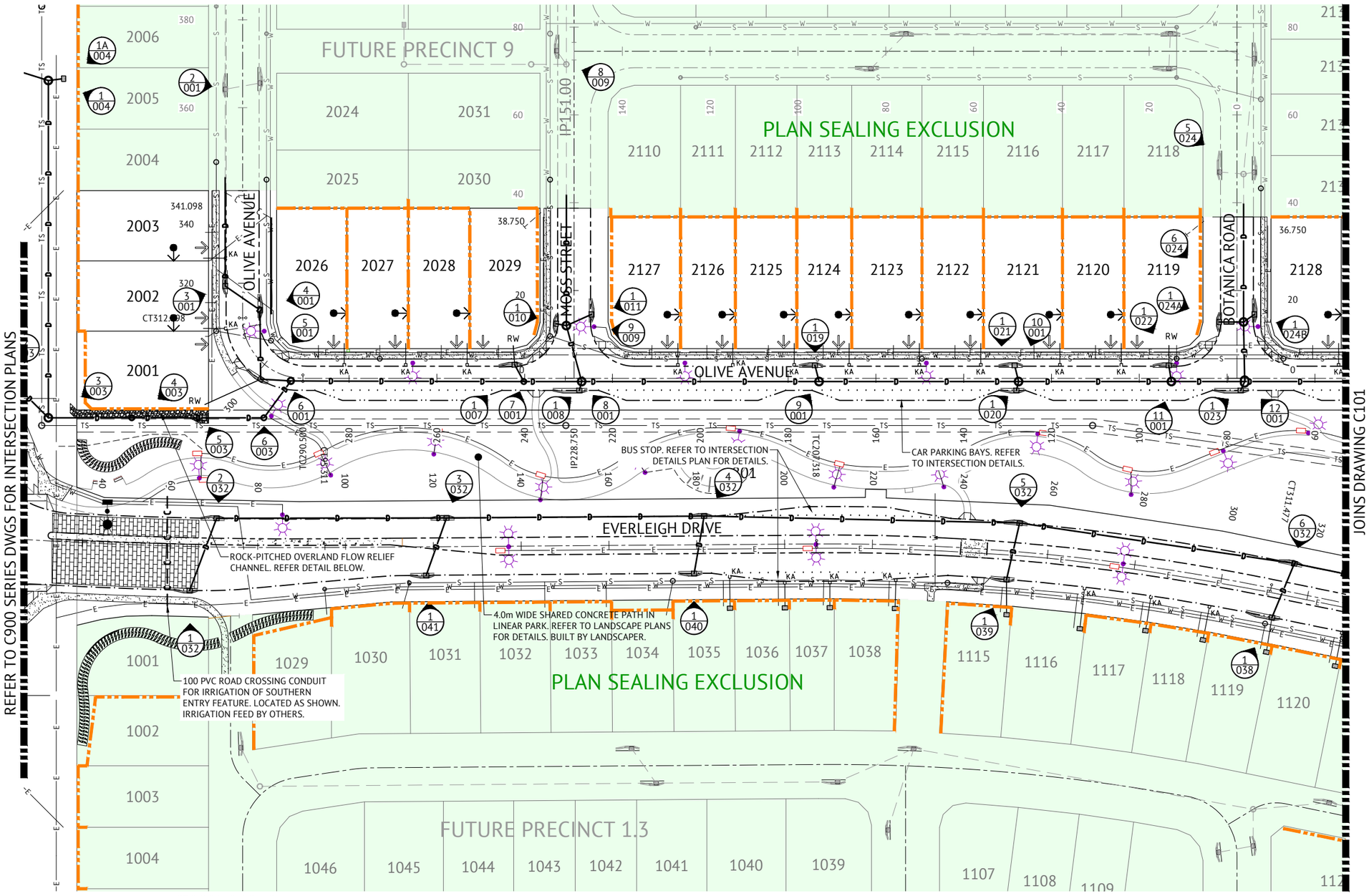
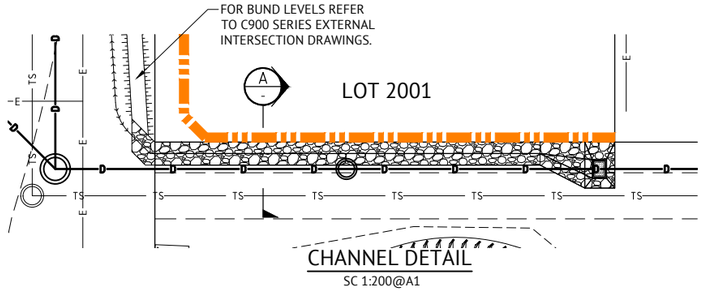
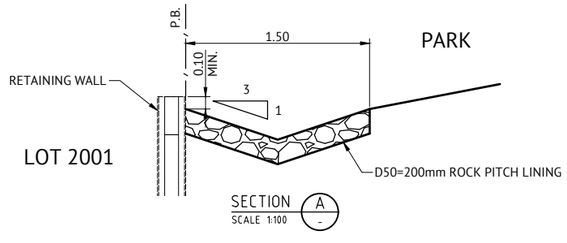
DESIGNED	MM	RPEQ	DATE 06/10/17
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE 06/10/17		
JOSHUA STONE			

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SAFETY IN DESIGN PLAN

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C004	A







LEGEND

- PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'SM3' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'SM5' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA INVERT. REFER IPWEA STD DWG RS-080.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- STAMPED AC THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C400.
- PROPOSED ROOFWATER HOUSE CONNECTION (100 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER RETICULATION
- PROPOSED SEWER TRUNK RETICULATION
- PROPOSED SEWER RISING MAIN
- PROPOSED WATER
- PROPOSED ELECTRICAL & STREETLIGHTS
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING ELECTRICAL
- EXISTING TELSTRA
- EXISTING GAS
- PMT PAD MOUNTED TRANSFORMER
- PROPOSED LANDSCAPING WITHIN VERGE. PROVIDE 150x150 CONCRETE EDGE RESTRAINT AT INTERFACE WITH TURFED VERGE. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.

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

STORMWATER TRENCH BACKFILL NOTE:

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	LANDSCAPE FEATURES UPDATED	KH
13/04/18	E	AMENDED LINEAR PARK, RETAINING WALL LOCATIONS, CHANNEL OPPOSITE LOT 2001, LOT CALC CHANGE TO LOTS 2129-2131	KH
23/02/18	D	STRUCTURE NAMING CORRECTED	KH
12/01/18	C	AMENDED STORMWATER DRAINAGE ALIGNMENTS	KH
10/11/17	B	MINOR AMENDMENTS	KH
23/02/18	A	ORIGINAL ISSUE	KH

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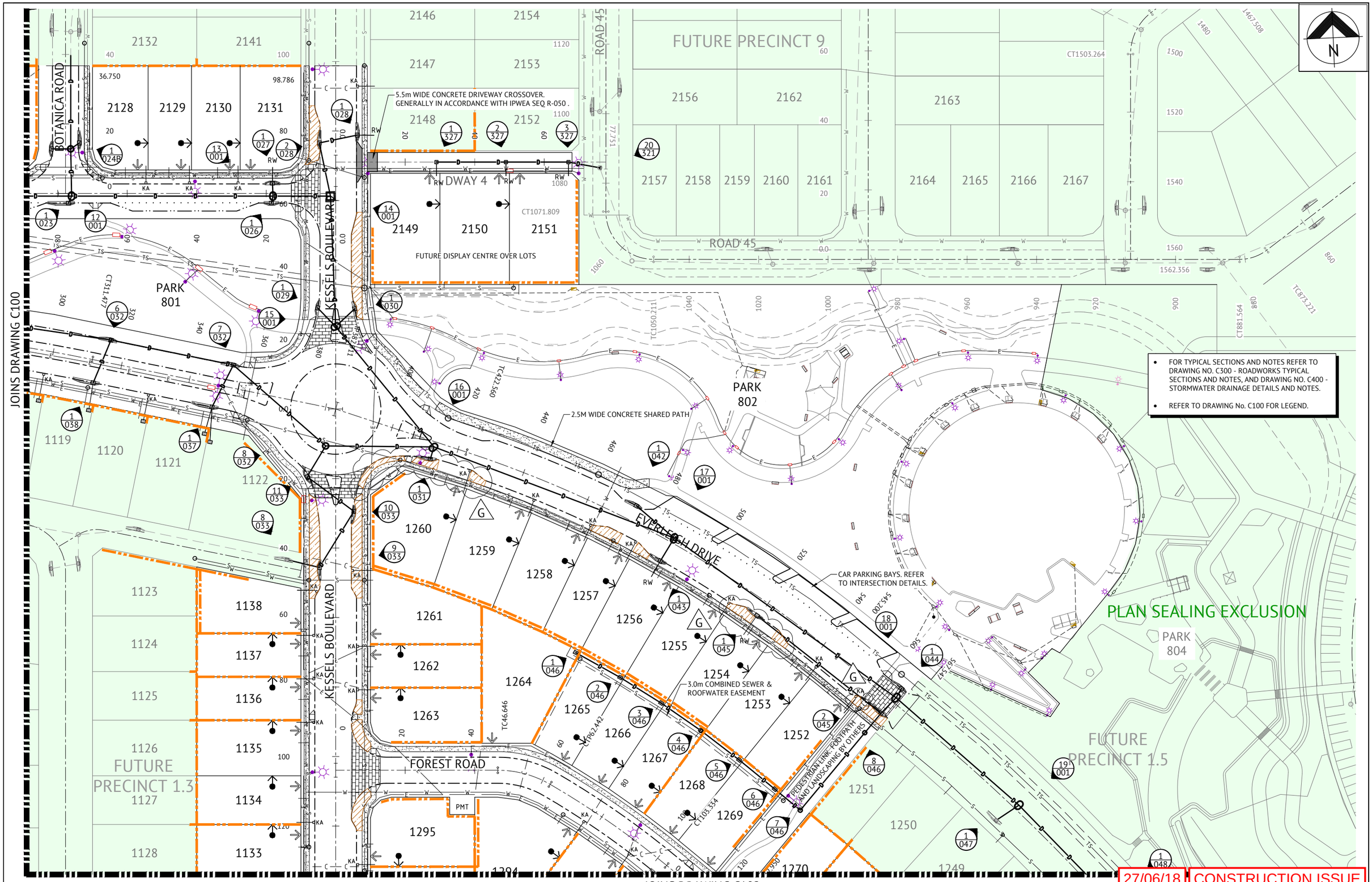
DESIGNED	MM
CHECKED	JS
PROJECT MANAGER	JS
PROJECT DIRECTOR	JOSHUA STONE
DATE	22/06/18
RPEQ	K. Howells, RPEQ 7295
DATE	22/06/18
SCALE	0 10 20 30m
	SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 4
JOB CODE	MIR001-01
SHEET NUMBER	C100
REV	F



DATE	REV	DESCRIPTION	RPEQ
22/06/18	G	LANDSCAPE FEATURES UPDATED AND ADDED GARDENS	KH
15/04/18	F	AMENDED LINEAR PARK AND REC PARK PATHWAY, RETAINING WALL LOCATIONS, LOT CALC CHANGE TO LOTS 2129-2131	KH
26/02/18	E	GARDEN BED IN FRONT OF FUTURE DRIVEWAY OF LOT 1263 REMOVED	KH
23/02/18	D	STRUCTURE NAMING CORRECTED	KH
12/01/18	C	AMENDED STORMWATER DRAINAGE ALIGNMENTS	KH
10/11/17	B	MINOR AMENDMENTS	KH
23/02/18	A	ORIGINAL ISSUE	KH

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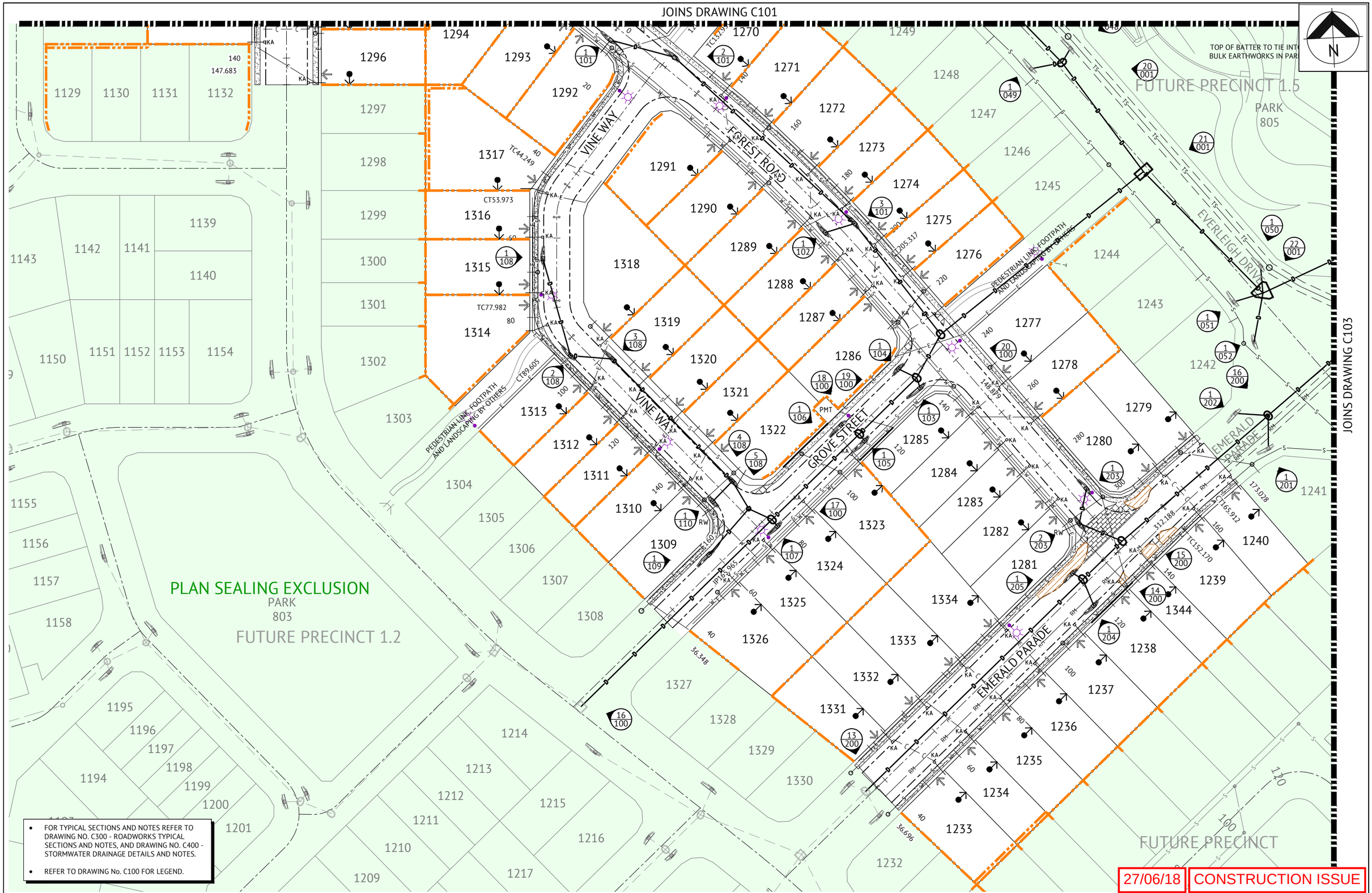
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	K. Howells KEITH HOWELLS RPEQ 7295	22/06/18
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE	0 10 20 30m	
JOSHUA STONE	22/06/18	SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C101	G



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	E	LANDSCAPE FEATURES UPDATED AND GARDEN INFRONT OF LOT 1344 AMENDED	KH
23/02/18	D	STRUCTURE NAMING CORRECTED	KH
12/01/18	C	AMENDED STORMWATER DRAINAGE ALIGNMENTS	KH
10/11/17	B	MINOR AMENDMENTS	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18
RPEQ	KEITH HOWELLS	DATE	22/06/18
		RPEQ	7295

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 3 OF 4
JOB CODE	MIR001-01
SHEET NUMBER	C102
REV	E

N

EPBC Excision Bdy

ALING EXCLUSION

PARK 804

PARK 805

FUTURE SPORTS FIELDS

JOINS DRAWING C102

CONSTRUCTION WATER HOLDING DAM

INSTALL 400 THICK D50=200mm DUMPED ROCK SCOUR PROTECTION ON GEOFABRIC UNDERLAY

1500 DIA, EXTENDED 900mm MANHOLE WITH TEMPORARY 1200x1200 DOME GRATE (SL 44.0). PROVIDE 450 ORIFICE IN WALL AT IL 41.60

CUSTOM STORMWATER STRUCTURE WITH INTERNAL Q3MONTH DIVERSION WEIR. REFER TO STRUCTURE DETAIL DRAWINGS.

TEMPORARY POLY PIPE DRAINAGE PIPES 3x600Ø AT 1m CENTRE SPACING

HIGH EFFICIENCY SEDIMENT (HES) BASIN
REFER TO EROSION & SEDIMENT CONTROL AND EARTHWORKS DRAWINGS FOR DETAILS

CONCRETE FLOW SPLITTER STRUCTURE - FOR DETAILS REFER TO STORMWATER FLOW SPLITTER DETAILS DRAWINGS

BIORETENTION BASIN

BIORETENTION BASIN

GB2 NOMINAL POSITION

1244 1243 1242 1279 1280 1241 1240

INSET A

0 5 10 15m

SCALE 1:250 (A1)

27/06/18 CONSTRUCTION ISSUE

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING NO. C300 - ROADWORKS TYPICAL SECTIONS AND NOTES, AND DRAWING NO. C400 - STORMWATER DRAINAGE DETAILS AND NOTES.
- REFER TO DRAWING No. C100 FOR LEGEND.

DATE	REV	DESCRIPTION	RPEQ
22/06/18	E	AMENDED DOME GRATE SL, MOVED GB2 NOMINAL POSITION AND LANDSCAPE FEATURES UPDATED	KH
23/02/18	D	STRUCTURE NAMING CORRECTED	KH
12/01/18	C	AMENDED STORMWATER DRAINAGE ALIGNMENTS	KH
10/11/17	B	MINOR AMENDMENTS	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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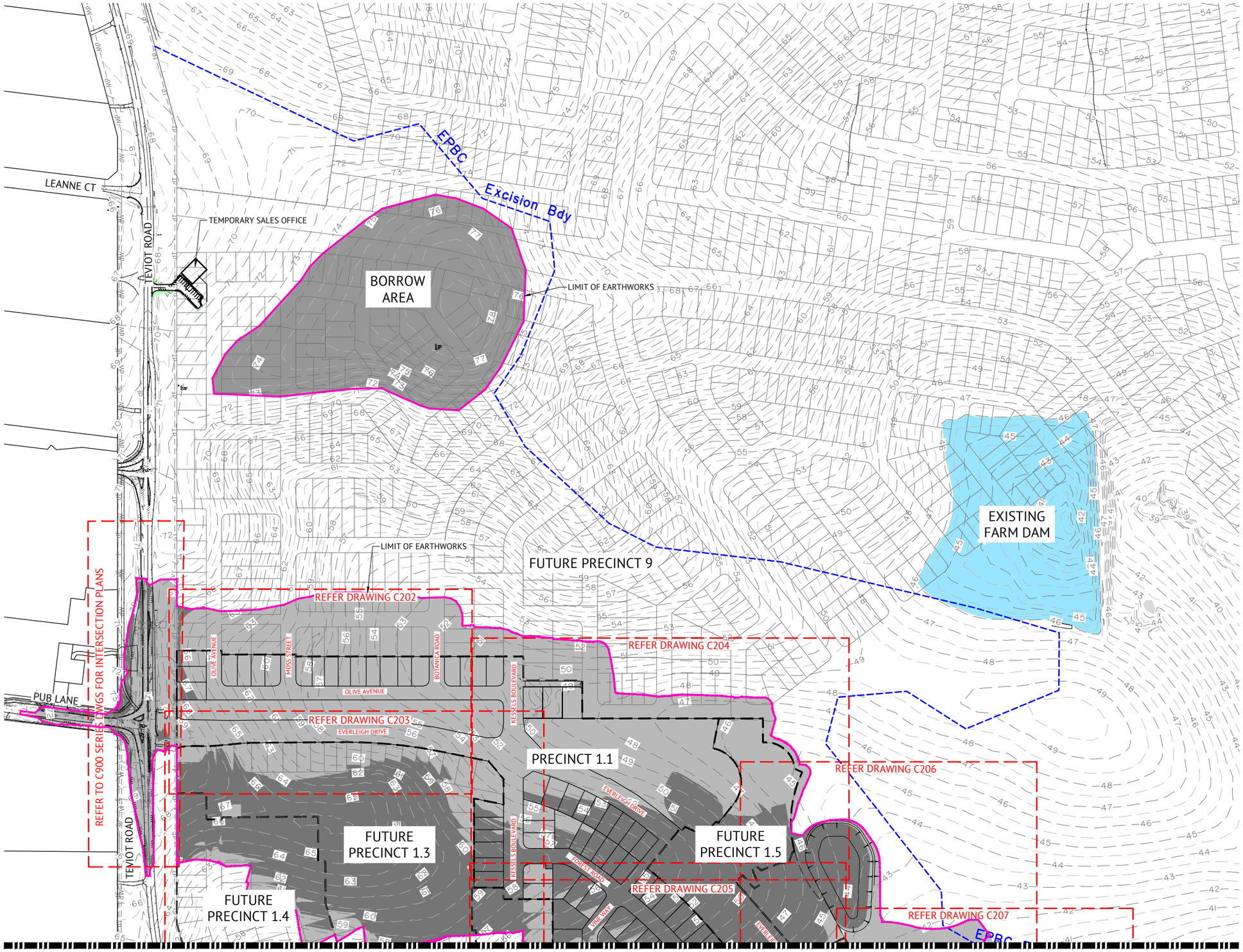
WEB: www.premise.com.au

DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18
RPEQ	KEITH HOWELLS	DATE	22/06/18
		RPEQ	7295
SCALE	AS SHOWN		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 4 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C103	E



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
11/01/18	C	MINOR AMENDMENTS	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
11/01/18	A	ORIGINAL ISSUE	KH

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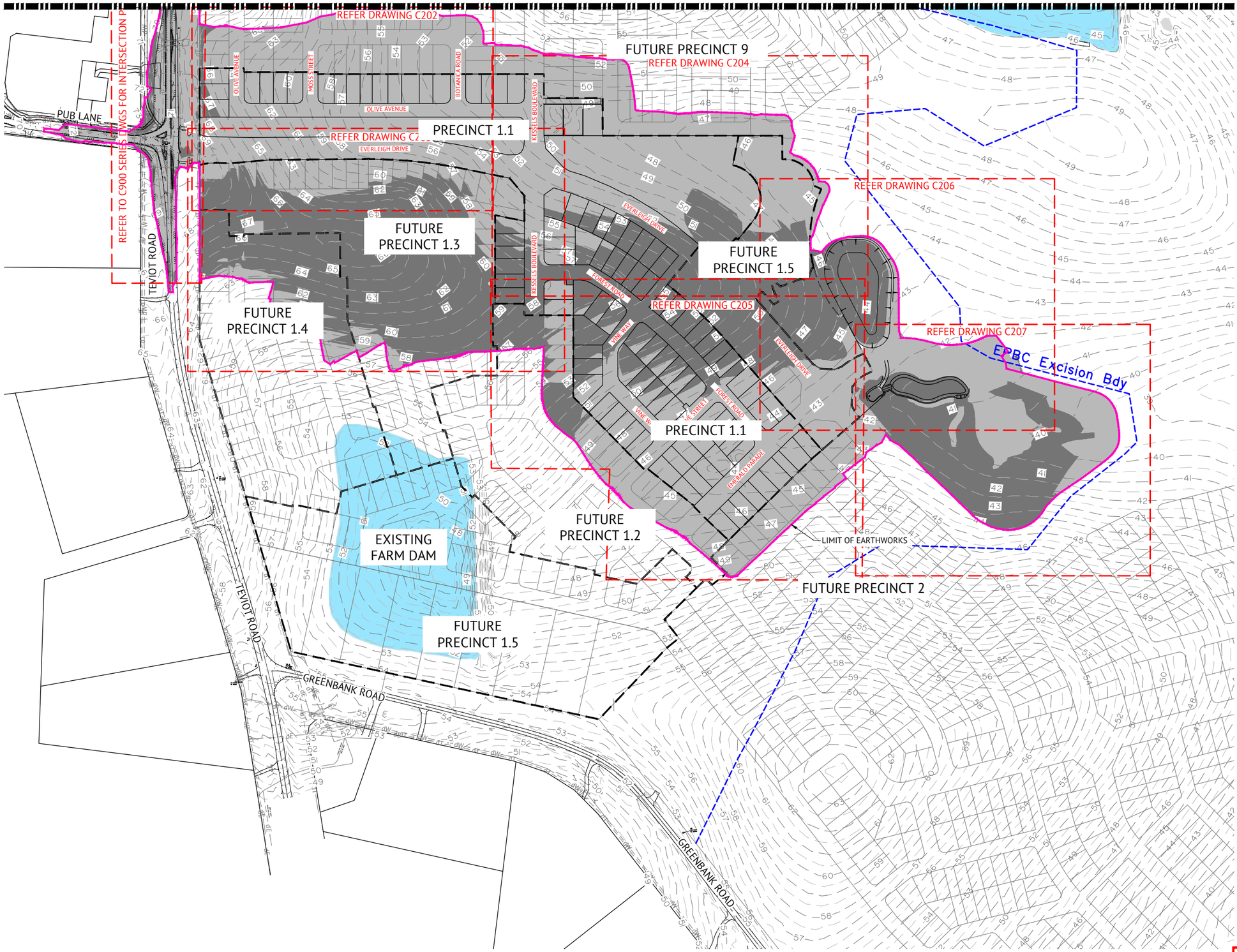
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	K. Howells KEITH HOWELLS	11/01/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	11/01/18	0 40 80 120m	
		SCALE 1:2000 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS INDEX PLAN AND BORROW AREA - SHEET 1 OF 2

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C200	C

REFER TO DRAWING C200 FOR CONTINUATION



LEGEND

- EXTENT OF CUT
- EXTENT OF FILL
- EXISTING FARM DAM
- EPBC EXCISION BOUNDARY
- LIMIT OF EARTHWORKS

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
11/01/18	C	MINOR AMENDMENTS	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
11/01/18	A	ORIGINAL ISSUE	KH

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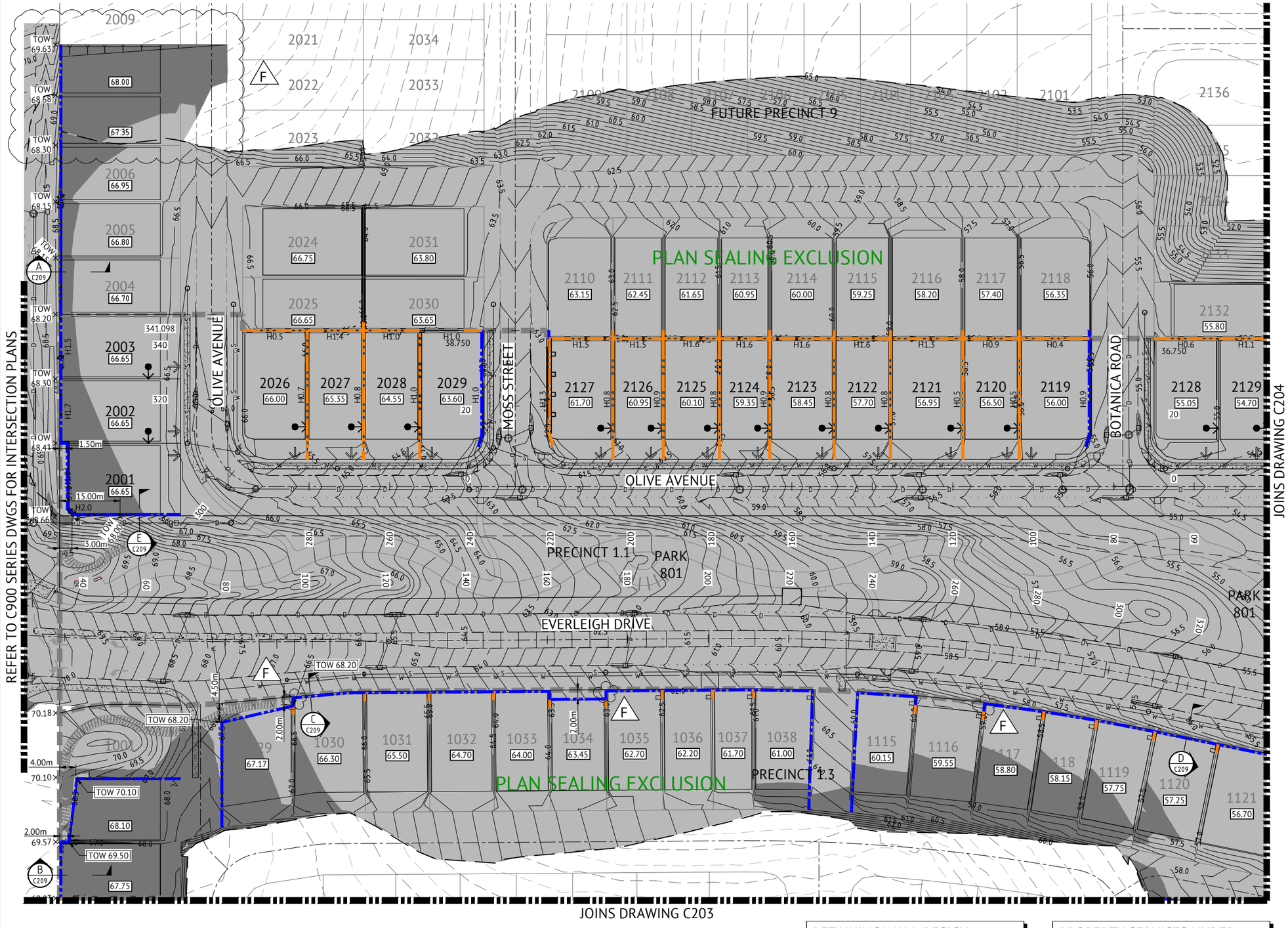
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	11/01/18
RPEQ	K. Howells KEITH HOWELLS RPEQ 7295	DATE	11/01/18

SCALE 0 40 80 120m
SCALE 1:2000 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS INDEX PLAN AND BORROW AREA - SHEET 2 OF 2
JOB CODE	MIR001-01
SHEET NUMBER	C201
REV	C



LEGEND

- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)
- 55.50 — FINISHED SURFACE PAD LEVEL
- H1.0 — PROPOSED CONCRETE SLEEPER RETAINING WALL (AND HEIGHT). TIMBER TEXTURED SLEEPERS AND 2 COAT PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- H1.0 — PROPOSED CONCRETE PANEL RETAINING WALL (AND HEIGHT). 2 COAT TEXTURED PAINT. DESIGN SPECIFICATION BY MANUFACTURER
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- ZERO LOT LINE
- 12.0 — EXISTING CONTOURS (0.50m)
- EXISTING STORMWATER
- EXISTING SEWER
- EXISTING WATER
- EXISTING ELECTRICITY
- EXISTING TELECOMMUNICATIONS
- EXISTING GAS

27/06/18 CONSTRUCTION ISSUE

EARTHWORKS VOLUMES
STAGE P01.1

CUT =	-169643m³
FILL =	344129m³
BALANCE =	174485m³

("-" EXPORT, "+" IMPORT)

NOTES
1. EXCLUDES BULKING AND COMPACTION FACTORS.
2. MINIMUM ROAD BOX INCLUDED IN VOLUMES.

NOTES
1. REFER BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
2. PROPOSED SERVICES WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS.
3. EXISTING DWELLINGS, FENCES ETC. TO BE DEMOLISHED & REMOVED OFF SITE BY OTHERS.
4. FINAL RETAINING WALL TYPES TO BE CONFIRMED BY DEVELOPER PRIOR TO CONSTRUCTION.

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 - EARTHWORKS NOTES AND DETAILS.

RETAINING WALL DESIGN:
ALL RETAINING WALLS SHALL BE DESIGNED & CONSTRUCTED IN ACCORDANCE WITH THE "DESIGN AND CONSTRUCTION RETAINING WALL SPECIFICATION" PREPARED BY PREMISE ENGINEERING .

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.

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	CHANGES RETAINING WALL TYPES, LANDSCAPE FEATURES UPDATED, LOTS 2007 & 2008 EARTHWORKS SHOWN.	KH
13/04/18	E	AMENDED RETAINING WALL LOCATIONS, AND LINEAR PARK AND RECREATIONAL PARK LEVELS	KH
21/03/18	D	MINOR PAD LEVEL CHANGE TO LOTS 2025 & 2030, ADDED NOTES & FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344.	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
21/03/18	A	ORIGINAL ISSUE	KH

REVISIONS

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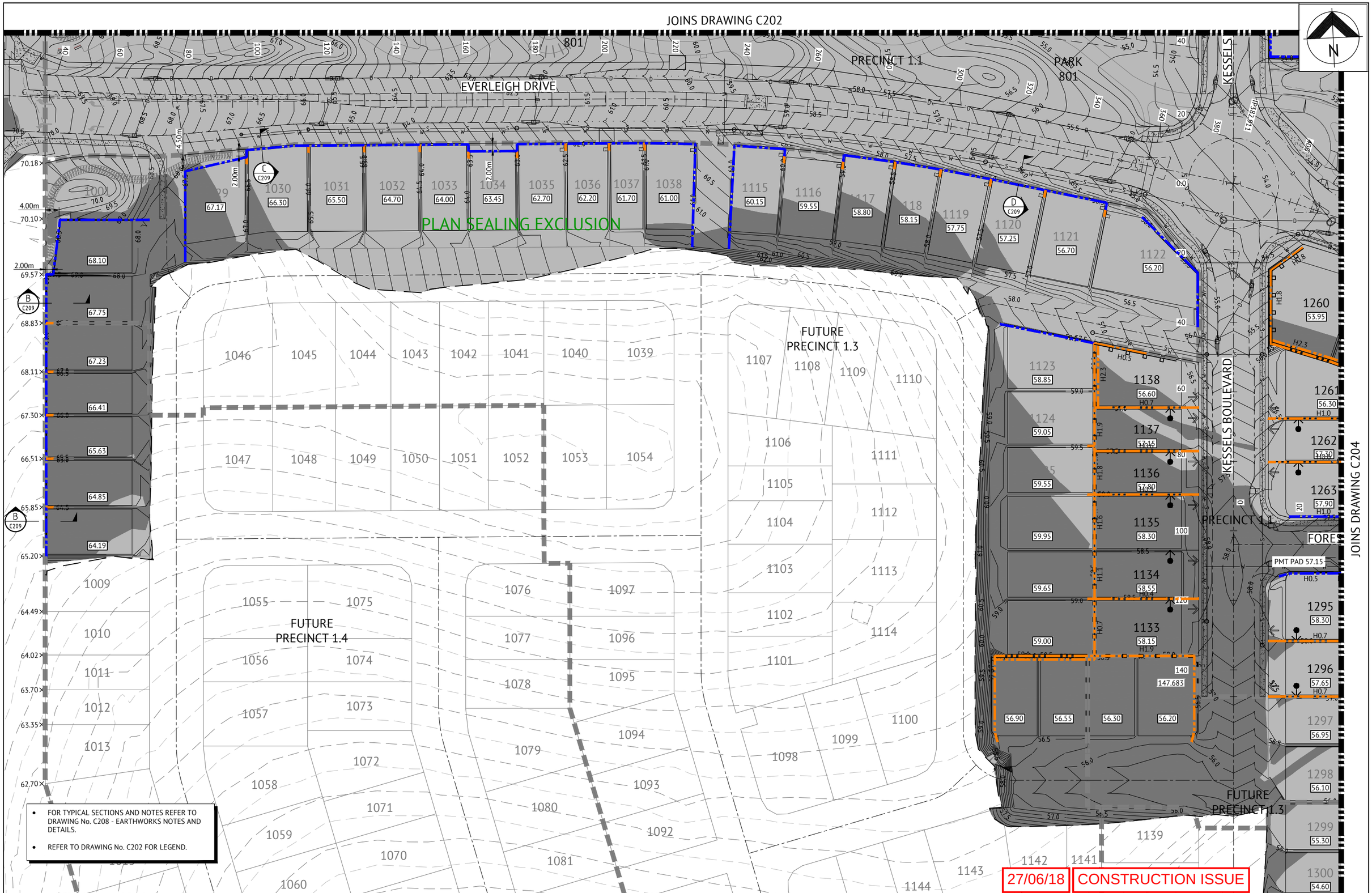
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS RPEQ 7295	22/06/18
PROJECT MANAGER	JS	SCALE	0 10 20 30m
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C202	F

JOINS DRAWING C202



- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C202 FOR LEGEND.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	LANDSCAPE FEATURES UPDATED	KH
13/04/18	E	AMENDED RETAINING WALL LOCATIONS, AND LINEAR PARK AND RECREATIONAL PARK LEVELS	KH
21/03/18	D	ADDED FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344 AND FEATURE FENCE	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
21/03/18	A	ORIGINAL ISSUE	KH

REVISIONS

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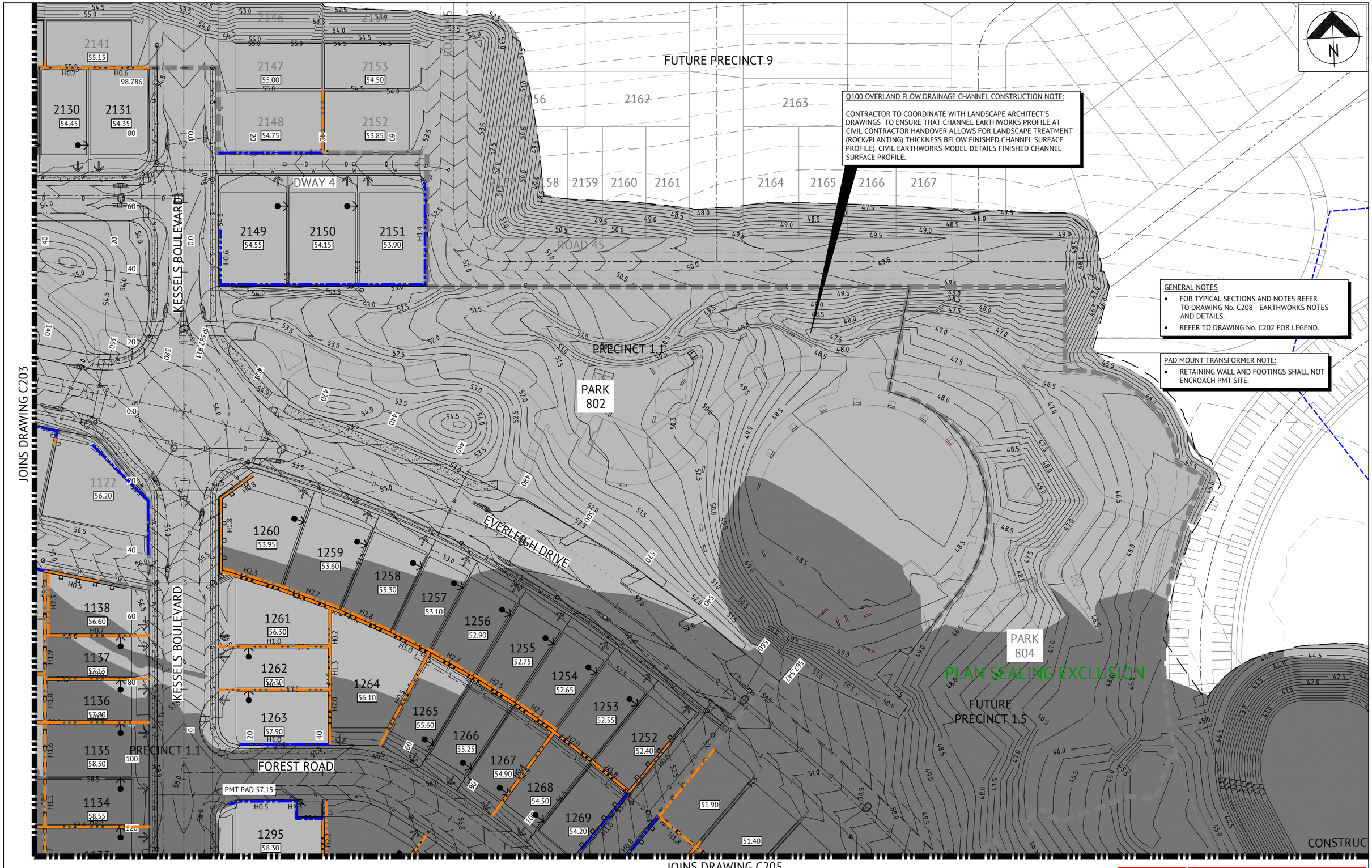
CHECKED	JS	K. Howells KEITH HOWELLS	22/06/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C203	F



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	LANDSCAPE FEATURES UPDATED	KH
13/04/18	E	AMENDED RETAINING WALL LOCATIONS, LINEAR PARK AND RECREATIONAL PARK LEVELS, CHANNEL LEVELS PREP NOTE.	KH
21/03/18	D	ADDED FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344 AND FEATURE FENCE	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
21/03/18	A	ORIGINAL ISSUE	KH

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CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	0 10 20 30m
PROJECT DIRECTOR	DATE 22/06/18	SCALE 1:500 (A1)	
JOSHUA STONE			

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 3 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C204	F

JOINS DRAWING C204

JOINS DRAWING C206

JOINS RIGHT

JOINS LEFT

PLAN SEALING EXCLUSION

PLAN SEALING EXCLUSION

PRECINCT 1.1

FUTURE PRECINCT 1.2

FUTURE PRECINCT 1.5

FUTURE PRECINCT 2

FUTURE PRECINCT 2

PARK 803

VINE WAY

FOREST ROAD

GROVE STREET

EMERALD PARADE

PMT PAD 47.80

GENERAL NOTES

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C202 FOR LEGEND.

PAD MOUNT TRANSFORMER NOTE:

- RETAINING WALL AND FOOTINGS SHALL NOT ENCROACH PMT SITE.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	LANDSCAPE FEATURES UPDATED	KH
21/03/18	E	ADDED FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
24/01/18	D	RETAINING WALLS ADDED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
23/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18

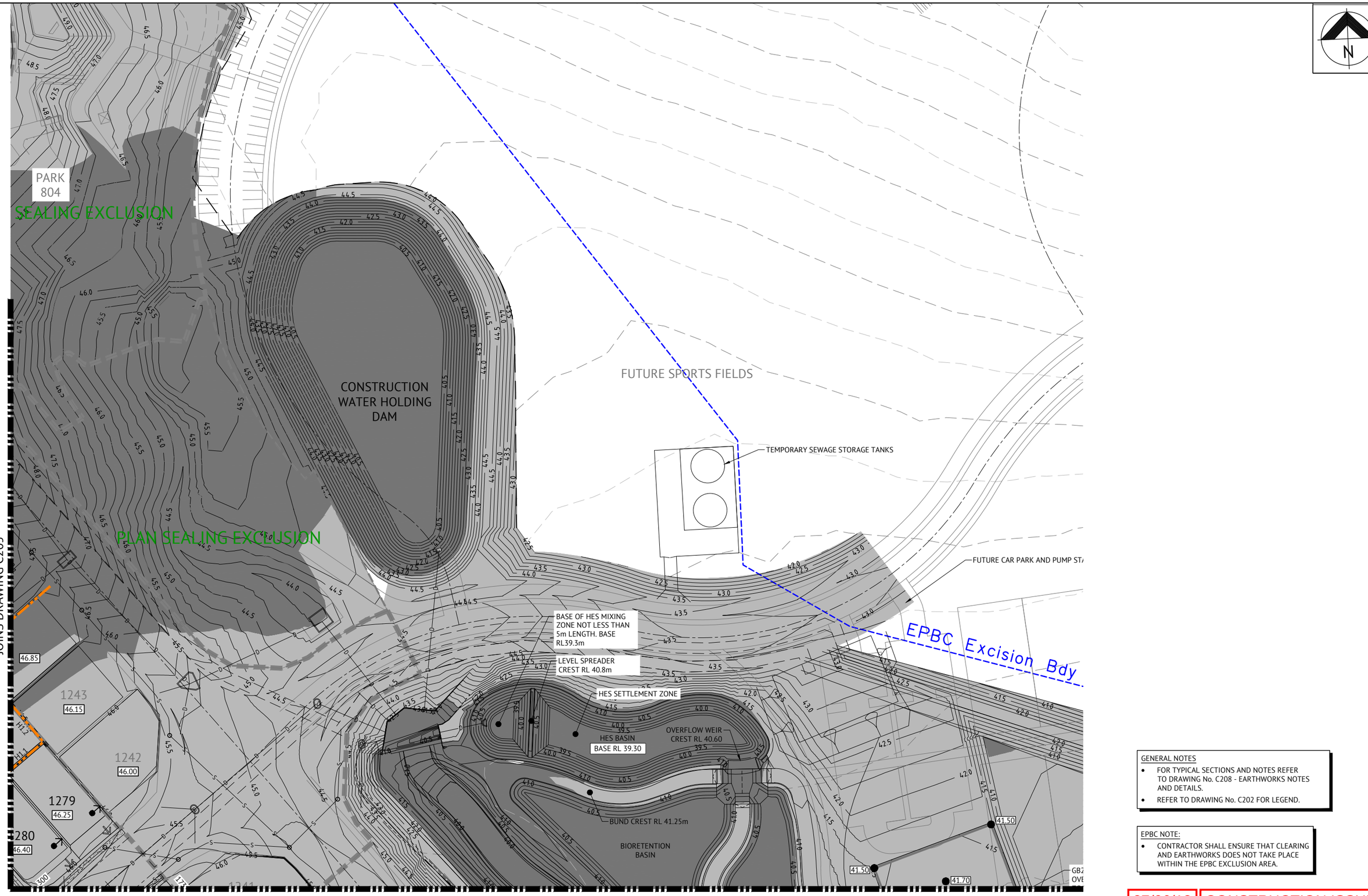
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 4 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C205	F



GENERAL NOTES

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C202 FOR LEGEND.

EPBC NOTE:

- CONTRACTOR SHALL ENSURE THAT CLEARING AND EARTHWORKS DOES NOT TAKE PLACE WITHIN THE EPBC EXCLUSION AREA.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	LANDSCAPE FEATURES UPDATED	KH
26/04/18	E	ADDED HES BASIN LEVEL DETAILS	KH
21/03/18	D	ADDED FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344.	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
10/11/17	A	ORIGINAL ISSUE	KH

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18

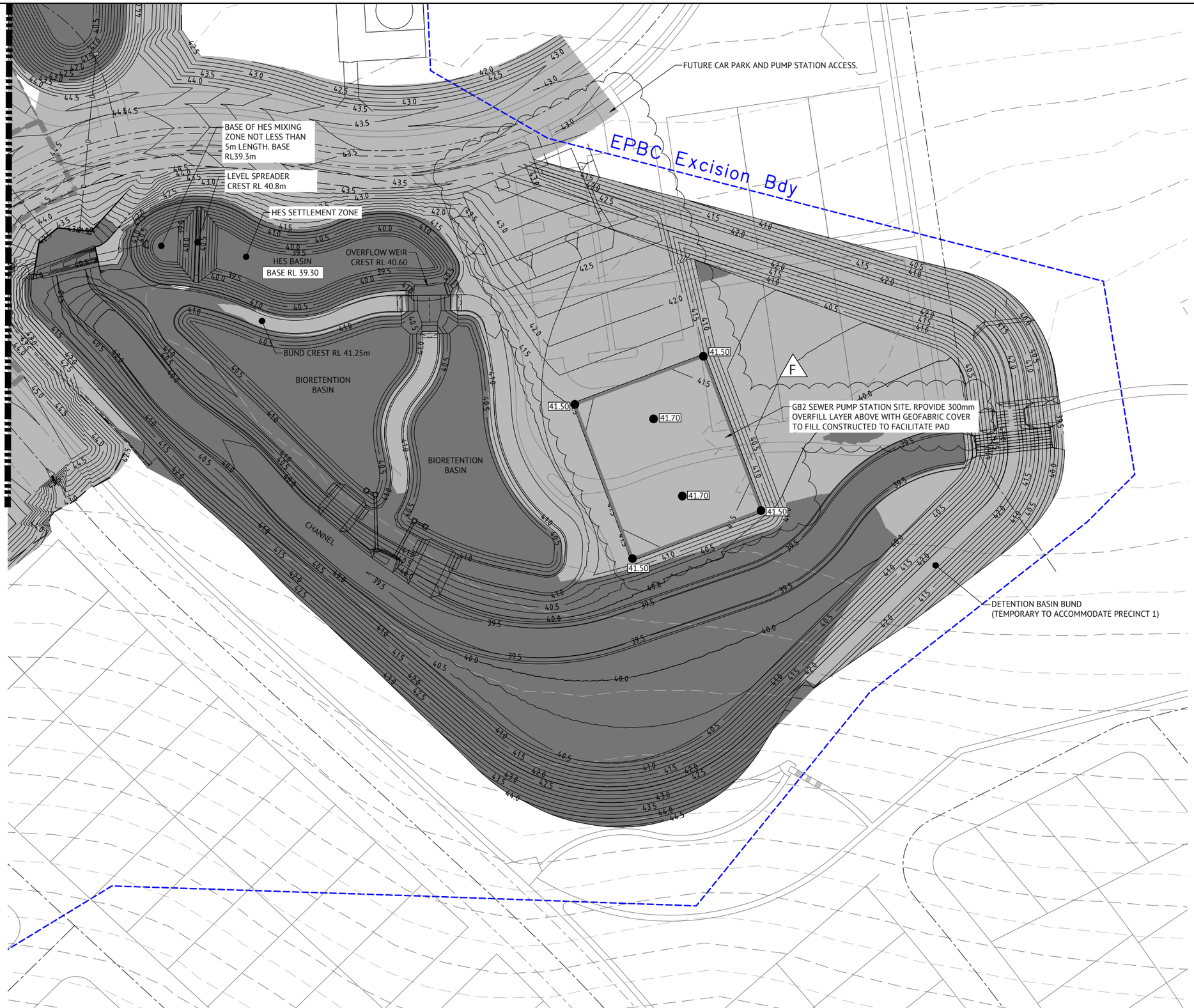
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 5 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C206	F

JOINS DRAWING C206



GENERAL NOTES

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C202 FOR LEGEND.

NOTE

- FOR DETAILS ON BIORETENTION BASINS, HIGH FLOW CHANNEL AND DETENTION BASIN BUND, REFER TO DRAWINGS PREPARED BY ENGENY.

EPBC NOTE:

- CONTRACTOR SHALL ENSURE THAT CLEARING AND EARTHWORKS DOES NOT TAKE PLACE WITHIN THE EPBC EXCLUSION AREA.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	F	ADDED SEWER PUMP STATION AND LEVELS AND LANDSCAPE FEATURES UPDATED	KH
26/04/18	E	ADDED HES BASIN LEVEL DETAILS	KH
21/03/18	D	ADDED FEATURE FENCE, RETAINING WALL TYPES UPDATED	KH
12/01/18	C	ADDED RETAININGWALL RETURNS AT ADJACENT STAGES, REFINED PARK FSL, ADDED LOT 1344.	KH
10/11/17	B	GENERIC CHANGE TO LOT LEVELS	KH
10/11/17	A	ORIGINAL ISSUE	KH

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DESIGNED	MM	RPEQ	DATE
CHECKED	JS	K. Howells KEITH HOWELLS RPEQ 7295	22/06/18
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18	SCALE 1:500 (A1)

0 10 20 30m

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 6 OF 6

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C207	F

NOTES

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

TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITY'S SPECIFICATION FOR STANDARDS OF COMPACTION AND MATERIAL STANDARDS.

EARTHWORKS TESTING

1. COMPACTION TESTS

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

2. QUALITY TESTS
   QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.

3. SUBGRADE TESTS
   THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE AS DETERMINED BY THE SUPERINTENDENT WHO SHALL RECOMMEND CBR VALUES TO BE USED IN ROAD PAVEMENT DESIGN. THE NUMBER AND TYPES OF CBR TESTS SHALL BE DETERMINED BY THE SOILS TESTING CONSULTANT TO BEST REPRESENT THE CONDITION OF THE SUBGRADE EXPECTED IN SERVICE.

DUST

1. NO VISIBLE DUST EMISSIONS MUST OCCUR AT THE BOUNDARIES OF THE SITE DURING EARTHWORKS AND CONSTRUCTION ACTIVITIES ON THE SITE.
2. THE CONTRACTOR TO PROVIDE A WATER TRUCK AS REQUIRED TO ELIMINATE THE DUST PROBLEM CAUSED BY SITE TRAFFIC.

CONDUITS

1. THE CONTRACTOR IS TO CONFIRM THE LOCATION OF SERVICE CONDUITS WITH THE SUPERINTENDENT PRIOR TO LAYING.

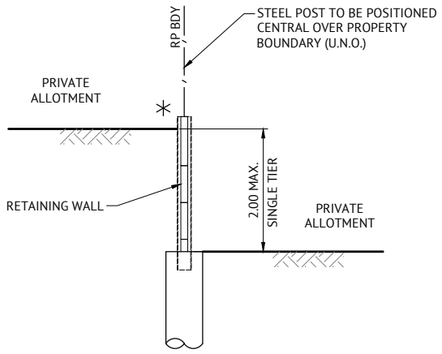
FILL MANAGEMENT

1. ALL FILL MATERIAL WILL BE PLACED IN ACCORDANCE WITH THE APPROVED SPECIFICATION.
2. THE FILL MATERIAL WILL COMPRISE ONLY OF NATURAL EARTH AND ROCK AND SHALL BE FREE OF ALL CONTAMINATES, NOXIOUS, HAZARDOUS, DELETERIOUS AND ORGANIC MATERIAL.
3. ALL SITE PREPARATION WORK SHOULD GENERALLY BE CARRIED OUT IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
4. THE SITE SHOULD BE STRIPPED OF ANY TOPSOIL FROM CUT AND FILL AREAS, ROAD ALIGNMENTS AND CARPARKING AREAS, AND STOCKPILED FOR LATER USE.
5. PRIOR TO THE PLACEMENT OF ANY STRUCTURAL FILL THE SITE SHOULD BE PROOF ROLLED USING A MINIMUM 10 TONNE (STATIC WEIGHT) PADFOOT ROLLER. ANY LOOSE OR SOFT AREAS SHOULD BE REMOVED AND RECOMPACTED OR REPLACED USING A COMPACTED SELECT FILL.
6. DEPRESSIONS FORMED BY THE REMOVAL OF VEGETATION, EXISTING STRUCTURES, UNDERGROUND SERVICES ETC, SHOULD HAVE ALL DISTURBED SOIL CLEANED OUT AND BE BACKFILLED WITH COMPACTED SELECT FILL MATERIAL.
7. ANY STRUCTURAL CLAY FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200MM THICK AT A MOISTURE CONTENT IN THE RANGE -2% TO +3% OF THE STANDARD OPTIMUM MOISTURE CONTENT, AND BE COMPACTED TO A MINIMUM DRY DENSITY RATIO OF 98% UNDER STANDARD COMPACTION AS PER (AS1289 5.1.1/5.2.1). CLAY FILL SHOULD BE COMPACTED USING A MINIMUM 10 TONNE VIBRATING PADFOOT ROLLER. MEASURES SHOULD BE ADOPTED TO ENSURE THAT CLAY FILL MATERIAL IS NOT ALLOWED TO DRY OUT PRIOR TO THE PLACEMENT OF SUCCEEDING LAYERS OF FILL AND FINAL COVERING WITH BUILDING SLABS AND ROAD PAVEMENTS.
8. ANY STRUCTURAL, FREE DRAINING SAND FILL SHOULD BE PLACED IN LOOSE LAYERS NOT GREATER THAN 200MM THICK, FLOODED, IF NECESSARY, AND COMPACTED TO A MINIMUM DENSITY INDEX OF 70% AS PER AS1289 5.5.1 USING A STATIC SMOOTH ROLLER DRUM NOT LESS THAN 10 TONNE IN STATIC WEIGHT.
9. THE PLACEMENT OF ALL STRUCTURAL FILL TO BE INSPECTED, TESTED AND CERTIFIED BY A GEOTECHNICAL ENGINEER TO A LEVEL 1 REQUIREMENT DURING THE EARTHWORKS OPERATIONS TO ENSURE THAT ALL FILL IS PLACED IN A 'CONTROLLED MANNER', IN ACCORDANCE WITH AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS'.
10. 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.
11. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
12. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
13. 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.
14. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

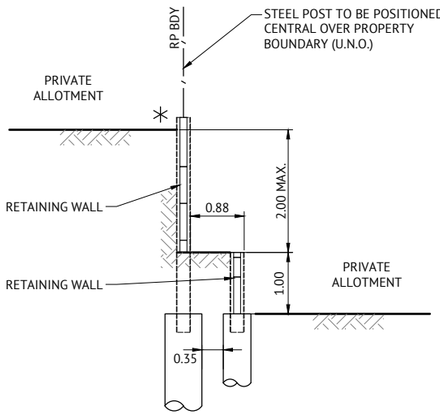
P1.1 TOPSOIL RESPREAD REQUIREMENTS

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

- ROAD VERGE FRONTING PARK AND OPEN SPACE AREAS
  CIVIL CONTRACTOR TO CONSTRUCT TO LEVEL 100mm BELOW FSL. (LANDSCAPE CONTRACTOR TO SPREAD 100mm OF AMELIORATED TOPSOIL).
- BIORETENTION BASIN BATTERS
  CIVIL CONTRACTOR TO CONSTRUCT TO LEVEL 300mm BELOW FSL. (LANDSCAPE CONTRACTOR TO SPREAD 300mm OF AMELIORATED TOPSOIL).

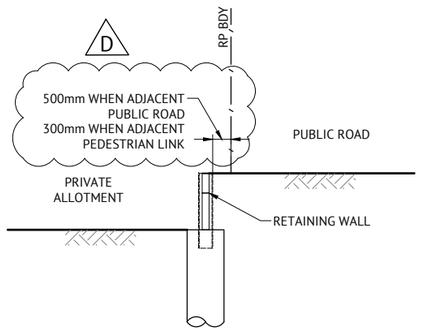


TYPICAL RETAINING WALL DETAIL
INTER ALLOTMENT
0.4m-2m MAX HIGH
N.T.S.

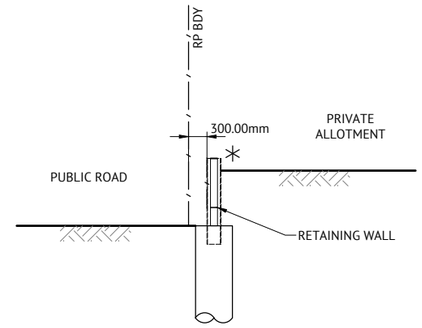


TYPICAL RETAINING WALL DETAIL
INTER ALLOTMENT
2m-3m MAX HIGH
N.T.S.

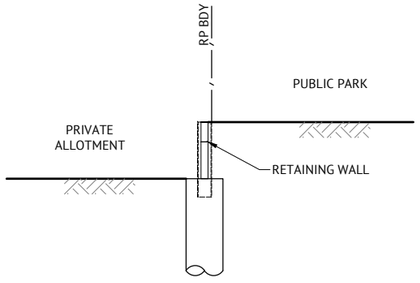
✳ WHERE WALL IS RETAINING PRIVATE ALLOTMENT PROVIDE TYPICALLY 100mm ADDITIONAL HEIGHT ABOVE FINISHED PAD LEVEL TO ACCOMMODATE FUTURE BUILDING SLAB AND TOP SOIL LEVELS. REFER TO TYPICAL RETAINING WALL LOT FINISHING DETAIL THIS SHEET.



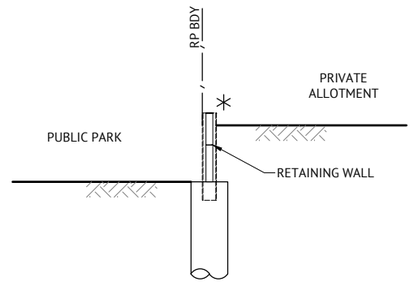
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE
ROAD LEVEL IS HIGHER
N.T.S.



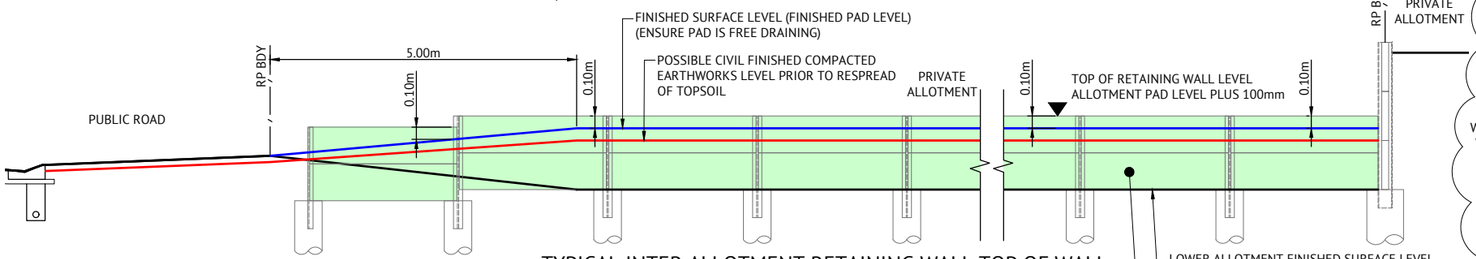
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE
LOT LEVEL IS HIGHER
N.T.S.



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

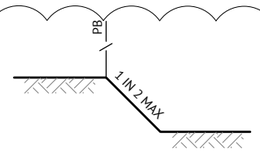


TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE
LOT LEVEL IS HIGHER
N.T.S.

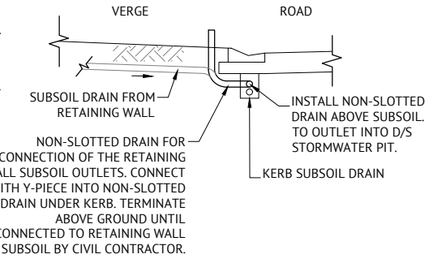


TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL
SETOUT AND END DETAIL
N.T.S.

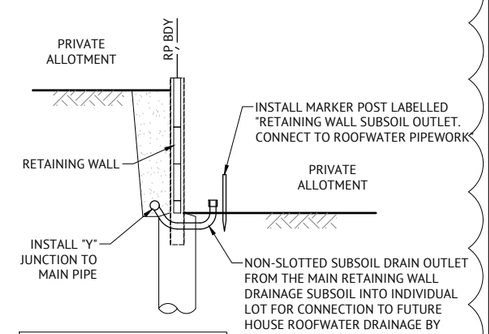
D



TYPICAL SECTION FOR
BATTERS BETWEEN LOTS
SCALE 1:20



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



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

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
21/03/18	D	BATTER DETAIL & RETAINING WALL SUBSOIL LOT OUTLET ADDED AND AMENDED WALL BOUNDARY OFFSET	KH
12/01/18	C	MINOR AMENDMENTS	KH
10/11/17	B	TOP OF RETAINING WALL LEVEL NOTE CHANGED TO 100MM ADDITION	KH
21/03/18	A	ORIGINAL ISSUE	KH

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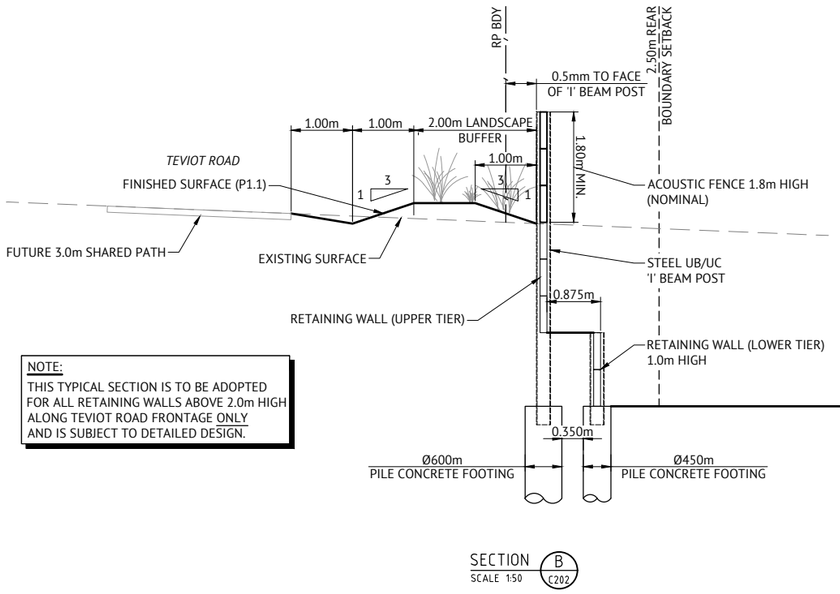
DESIGNED	MM	RPEQ	DATE 21/03/18
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE 21/03/18	

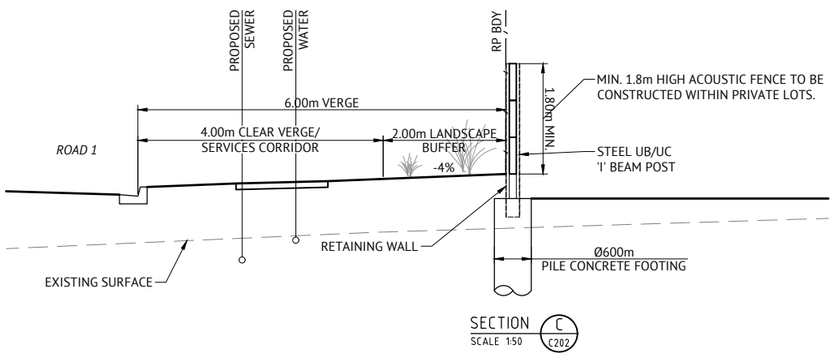
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS NOTES AND DETAILS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C208	D



NOTE:
THIS TYPICAL SECTION IS TO BE ADOPTED FOR ALL RETAINING WALLS ABOVE 2.0m HIGH ALONG TEVIOT ROAD FRONTAGE ONLY AND IS SUBJECT TO DETAILED DESIGN.

SECTION B SCALE 1:50 C202



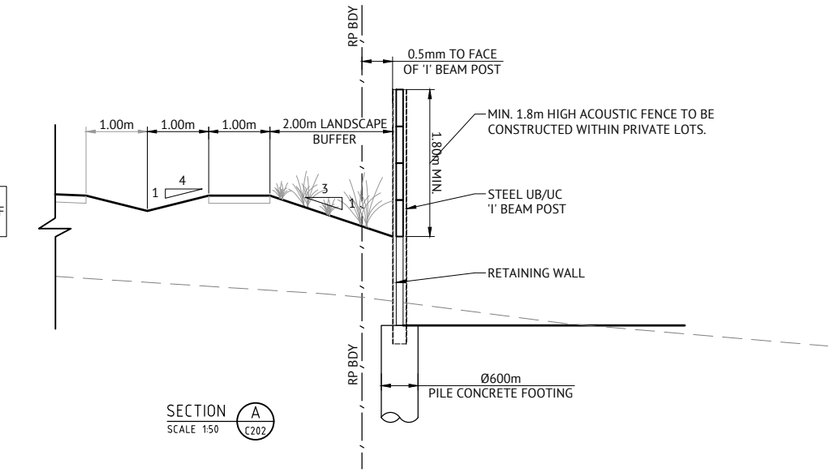
SECTION C SCALE 1:50 C202

THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE ATP CONSULTING ENGINEERS NOISE IMPACT ASSESSMENT, DOCUMENT NO. ATP 150814-R-NIA-03, DATED 24 MAY 2017, AND SUBSEQUENT AMENDMENTS DETAILED IN THE ATP CONSULTING ENGINEERS TECHNICAL MEMORANDUM, DOCUMENT NO. ATP170617-TM-01, DATED 18 AUGUST 2017.

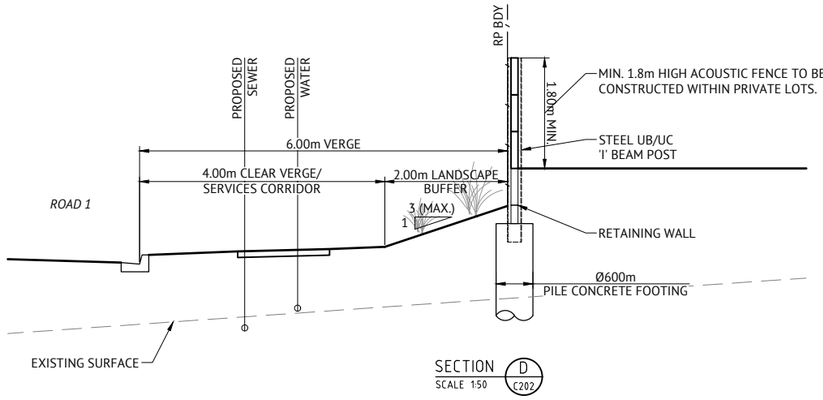
THE PROPOSED ACOUSTIC FENCE SHALL BE CONSTRUCTED AS FOLLOWS:

- THE ACOUSTIC FENCE SHOULD BE CONSTRUCTED TO COMPLY WITH TMR's ROAD TRAFFIC NOISE MANAGEMENT: CODE OF PRACTICE.
- MATERIAL WITH MINIMUM SURFACE DENSITY OF 15kg/m2, E.G. TIMBER PALINGS WITH MINIMUM THICKNESS 20mm; FIBRE-CEMENT SHEETING WITH MINIMUM THICKNESS OF 12mm; MASONRY; AND AERATED CONCRETE.
- THE NOISE BARRIER SHOULD BE FREE OF ANY GAPS. IF THE NOISE BARRIER IS CONSTRUCTED OF TIMBER PALINGS, PLANKS SHOULD HAVE MINIMUM 35mm OVERLAP.
- NO GAPS SHALL BE LEFT BETWEEN THE FENCE AND THE GROUND.
- THE NOISE BARRIER SHOULD BE OF DURABLE CONSTRUCTION.

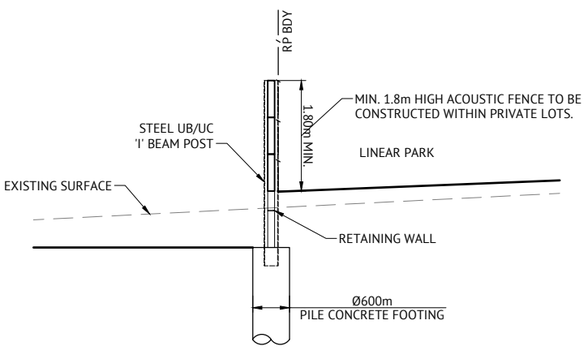
REFER TO C900 SERIES DRAWINGS FOR DETAILS OF WORKS IN VERGE.



SECTION A SCALE 1:50 C202



SECTION D SCALE 1:50 C202



SECTION E SCALE 1:50 C202

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	C	MINOR AMENDMENTS	KH
10/11/17	B	MINOR AMENDMENTS	KH
12/01/18	A	ORIGINAL ISSUE	KH

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DESIGNED	MM	RPEQ	DATE 12/01/18
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE 12/01/18		
JOSHUA STONE			

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C209	C

LEGEND

- EXTENT OF CUT
- EXTENT OF FILL
- TREES
- BOLLARD
- LANDSCAPE STRUCTURAL ELEMENT. CONTRACTOR TO ENSURE AREA IS FREE OF ROCK UP TO A DEPTH OF 2.5M (OR AS REQUIRED) BELOW DESIGN FSL (I.E. ENSURE AREA IS EASY DIGGING FOR THE INSTALLATION OF LANDSCAPE ELEMENT FOOTINGS)
- STREET TREE / PLANTING AREA. CONTRACTOR TO ENSURE AREA IS FREE OF ROCK UP TO A DEPTH OF 1.5M BELOW DESIGN FSL (I.E. ENSURE AREA IS EASY DIGGING FOR THE INSTALLATION OF TREES AND PLANTING). CONTRACTOR TO ALSO ENSURE THESE AREAS ARE CONNECTED INTO THE NEAREST STORMWATER STRUCTURE AND MADE FREE DRAINING VIA SLOTTED AGI PIPE.

ALLOTMENT PREPARATION REQUIREMENT:

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	C	LANDSCAPE FEATURES UPDATED	KH
13/04/18	B	AMENDED LINEAR AND RECREATIONAL PARK DETAILS	KH
11/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS - SHEET 1 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C210	C

DATE	REV	DESCRIPTION	RPEQ
22/06/18	C	LANDSCAPE FEATURES UPDATED	KH
13/04/18	B	AMENDED LINEAR AND RECREATIONAL PARK DETAILS	KH
11/01/18	A	ORIGINAL ISSUE	KH

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	22/06/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS - SHEET 2 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C211	C

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	B	LANDSCAPE FEATURES UPDATED	KH
11/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	22/06/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS - SHEET 3 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C212	B

NOTES

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

ROADWORKS NOTES

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

CONCRETE PAVEMENT

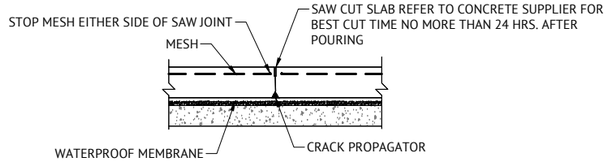
1. THE CONCRETE PAVEMENT HAS BEEN DESIGNED BASED ON A CBR 5 AND IS SUBJECT TO CONFIRMATION UPON RECEIPT OF CBR TEST RESULT AT TIME OF CONSTRUCTION.
2. CONCRETE PAVEMENT SPECIFICATION:

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

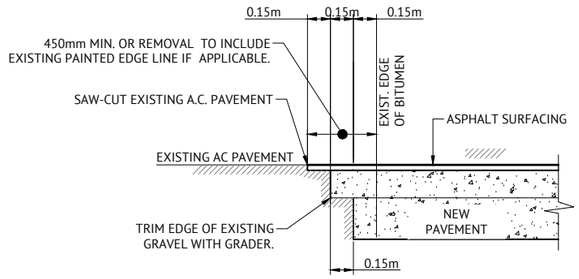
3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
4. PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
5. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
6. ALL JOINTS ARE TO BE SEALED JUST PRIOR TO HANDOVER WITH DOW CORNING '888' SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURING RECOMMENDATIONS.
7. JOINTS ARE TO BE INSPECTED AND SEALANT REGULARLY REPLACED IF REQUIRED.
8. 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.
9. CONCRETE PAVEMENTS ARE TO BE BROOM FINISHED. SLAB THICKNESSES NOTED ARE EXCLUSIVE OF APPLIED FINISHES
10. 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

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

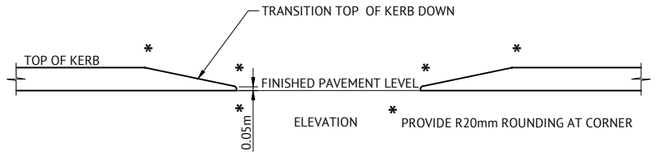


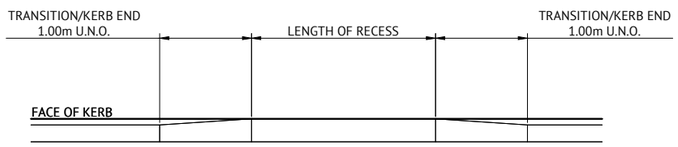
SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S

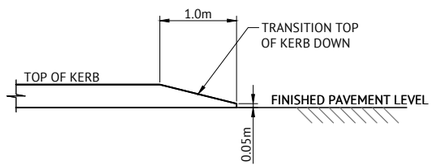




PLAN

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

TYPICAL KERB RECESS / END DETAIL



KERB END DETAIL

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	

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	MINOR DRAFTING AMENDMENTS	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS	23/02/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	23/02/18	0 5 10 15m	
		SCALE 1:250 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS TYPICAL SECTIONS & NOTES

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C300	B

PAVEMENT DESIGN (PRELIMINARY)

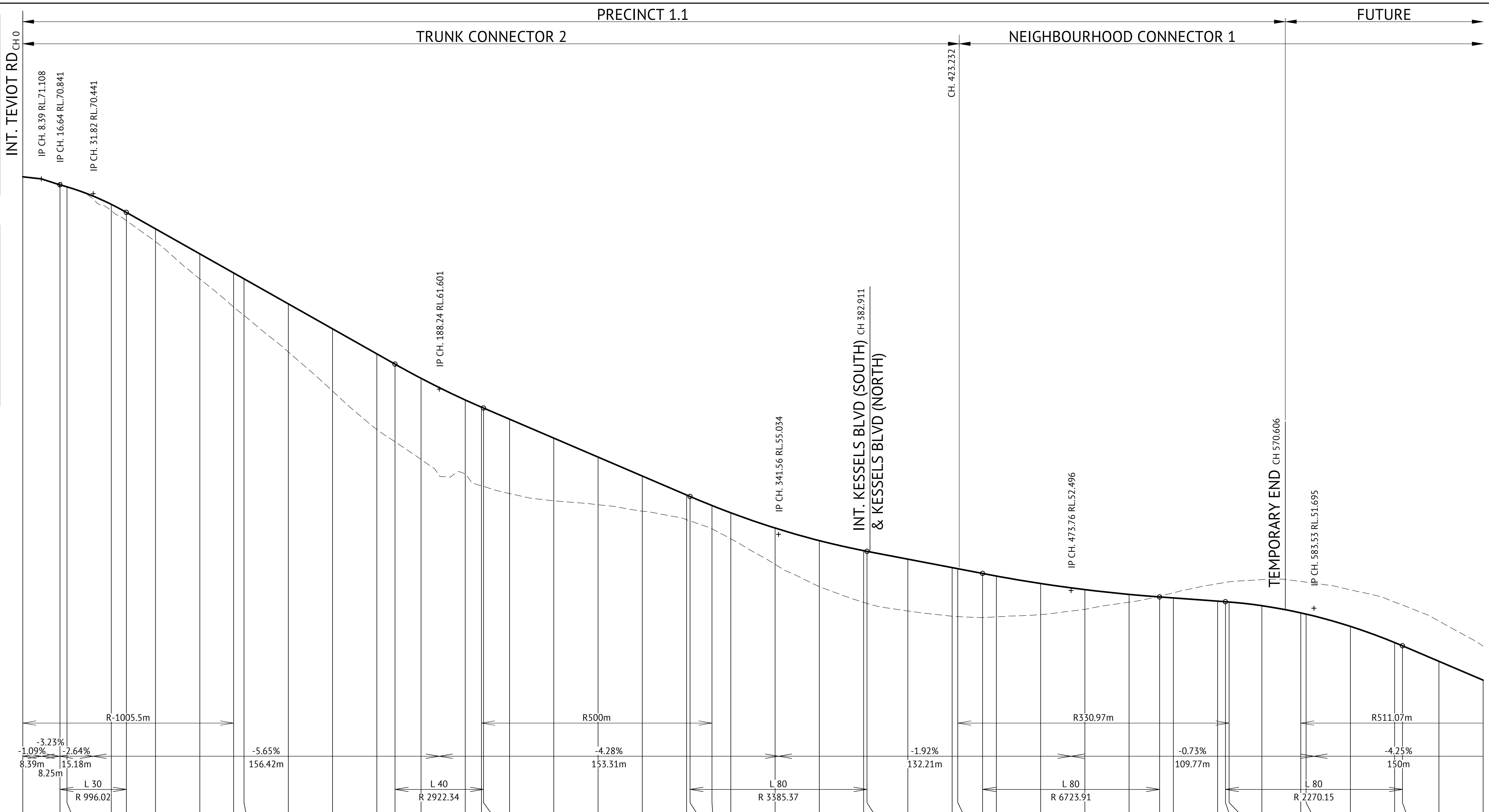
ROADS	-	EVERLEIGH DRIVE CH. 0.000 - CH. 423.232
CLASS	-	TRUNK CONNECTOR 2
ESA's	-	6.4 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE		PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	EVERLEIGH DRIVE CH. 423.232 - CH. 570.606
CLASS	-	NEIGHBOURHOOD CONNECTOR 1
ESA's	-	6.4 x 10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE		PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

DATUM R.L.42.0

CHAINAGE	CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE
0.00	0.002	✳	✳	71.200	71.198
16.82	0.015			70.837	70.822
20.00	-0.006			70.748	70.754
40.00	0.284	69.854	69.854	69.955	69.671
46.82	0.373	69.492	69.492	69.593	69.220
60.00	0.582	68.747	68.747	68.848	68.266
80.00	1.134	67.617	67.617	67.718	66.584
95.31	1.541	66.751	66.751	66.853	65.312
100.00	1.656	66.486	66.486	66.588	64.932
120.00	2.173	65.356	65.356	65.457	63.285
140.00	2.813	64.226	64.226	64.327	61.514
160.00	3.416	63.095	63.095	63.197	59.780
168.24	3.510	62.630	62.630	62.731	59.221
180.00	3.668	61.989	61.989	62.090	58.422
200.00	3.372	61.007	61.007	61.109	57.736
207.32	3.556	60.682	60.682	60.784	57.228
208.24	3.543	60.643	60.643	60.744	57.201
220.00	3.362	60.139	60.139	60.240	56.878
240.00	2.834	59.283	59.283	59.384	56.550
260.00	2.155	58.426	58.426	58.527	56.373
280.00	1.591	57.570	57.570	57.671	56.080
300.00	1.116	56.713	56.713	56.814	55.698
301.56	1.105	56.646	56.646	56.748	55.643
311.48	1.054	56.236	56.236	56.337	55.283
320.00	1.176	55.907	55.907	56.008	54.832
340.00	1.642	55.218	55.218	55.319	53.677
360.00	2.078	✳	✳	54.749	52.671
380.00	2.339			54.297	51.958
381.56	2.358			54.267	51.908
400.00	2.343			53.912	51.570
420.00	2.197			53.529	51.331
422.56	2.165	53.378	53.374	53.479	51.314
433.76	1.995	53.126	53.121	53.264	51.270
440.00	1.846	53.009	53.004	53.147	51.302
460.00	1.405	52.673	52.669	52.812	51.406
480.00	0.890	52.397	52.418	52.536	51.645
500.00	0.354	52.180	52.176	52.319	51.965
513.76	-0.033	52.066	52.085	52.204	52.238
520.00	-0.232	52.020	52.053	52.159	52.391
540.00	-0.786	51.874	51.870	52.013	52.799
543.53	-0.873	51.848	51.844	51.987	52.861
545.20	-0.913	51.836	51.831	51.974	52.888
560.00	-1.179	51.668	51.701	51.807	52.986
577.59	-1.418	51.344	51.340	51.483	52.902
580.00	-1.443	51.289	51.285	51.428	52.871
600.00	-1.652	50.734	50.729	50.873	52.525
620.00	-1.828	50.002	49.998	50.141	51.969
623.53	-1.847	49.855	49.850	49.994	51.840
640.00	-1.819	49.154	49.150	49.293	51.112
660.00	-1.539	48.304	48.299	48.442	49.981

EVERLEIGH DRIVE LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

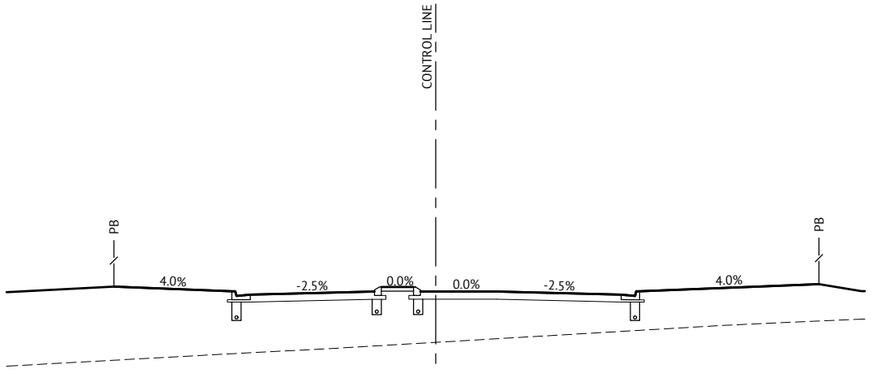
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 10/11/17

RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

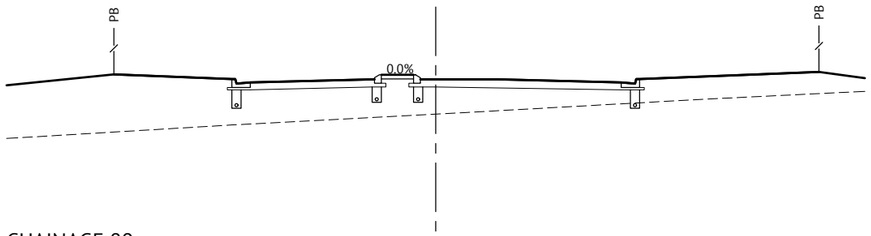
SCALE
SCALE 1:1000 (A1) 0 20 40 60m
0 2 4 6m SCALE 1:100 (A1)

CLIENT **MIRVAC**
PROJECT **EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **EVERLEIGH DRIVE LONGITUDINAL SECTIONS**

JOB CODE MIR001-01
SHEET NUMBER C301
REV B



CHAINAGE 100 — DATUM R.L. 61.00



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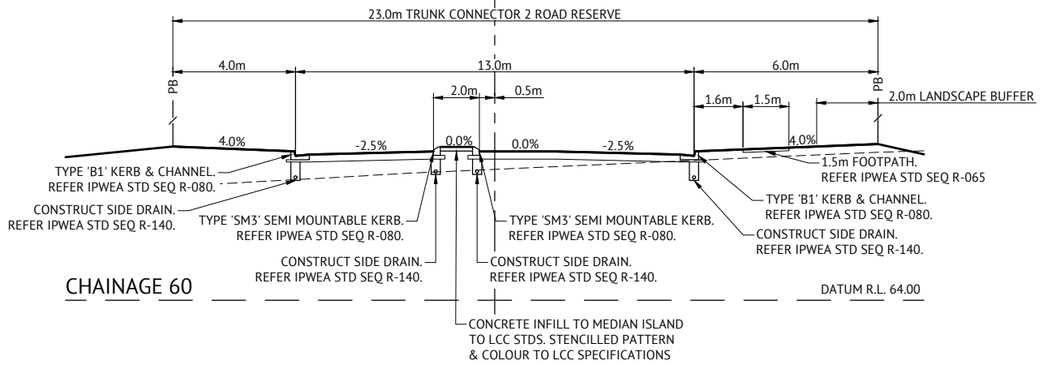
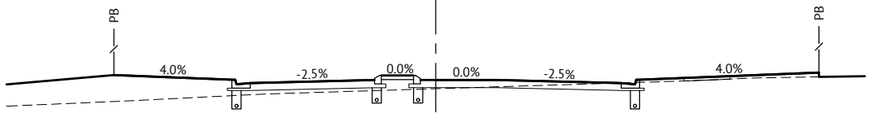


CHAINAGE 60 — DATUM R.L. 64.00

CONCRETE INFILL TO MEDIAN ISLAND TO LCC STDS. STENCILLED PATTERN & COLOUR TO LCC SPECIFICATIONS



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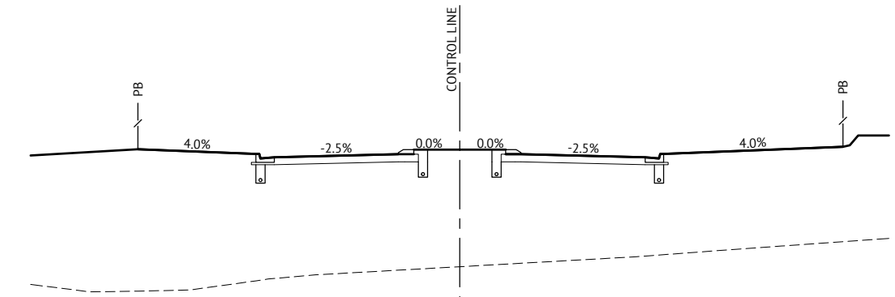

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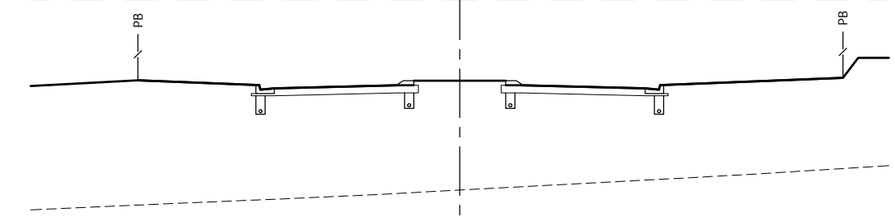
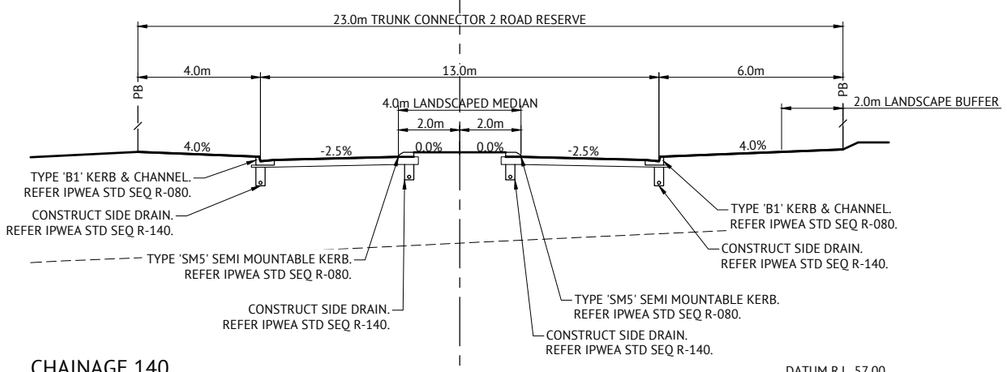


CHAINAGE 160 — DATUM R.L. 56.00



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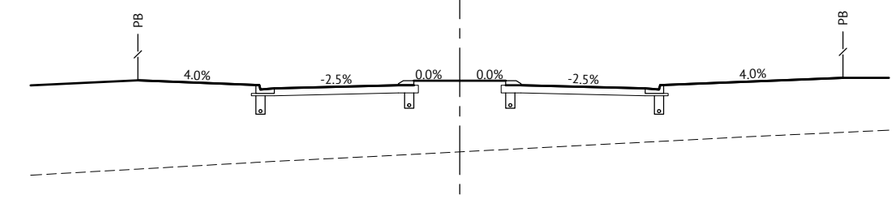


CHAINAGE 120 — DATUM R.L. 59.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

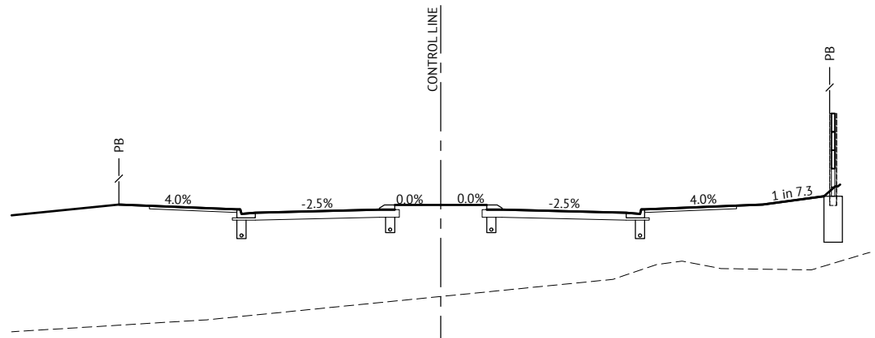
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ: K. Howells — KEITH HOWELLS — RPEQ 7295 — DATE 10/11/17

SCALE: 0 2 4 6m — SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EVERLEIGH DRIVE CROSS SECTIONS - SHEET 1 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C302	B



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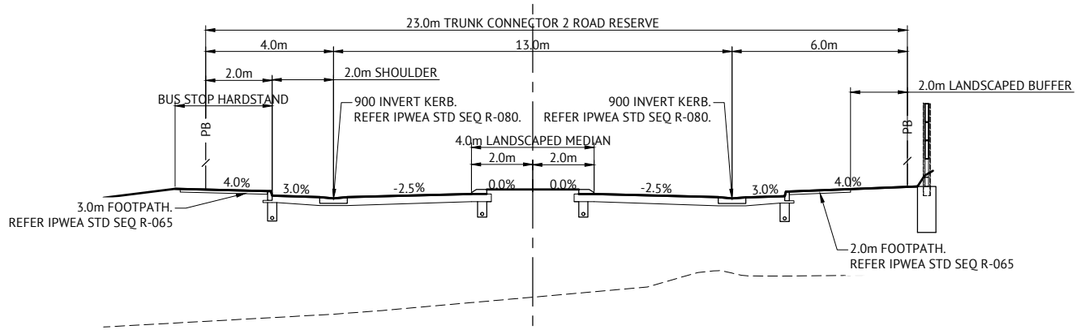

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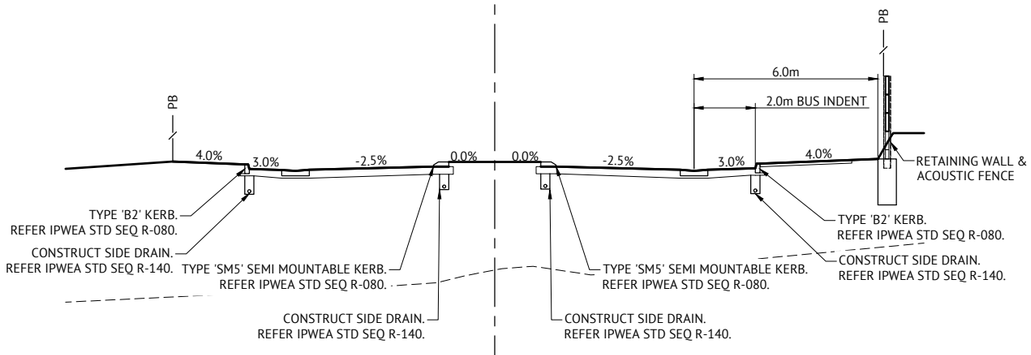

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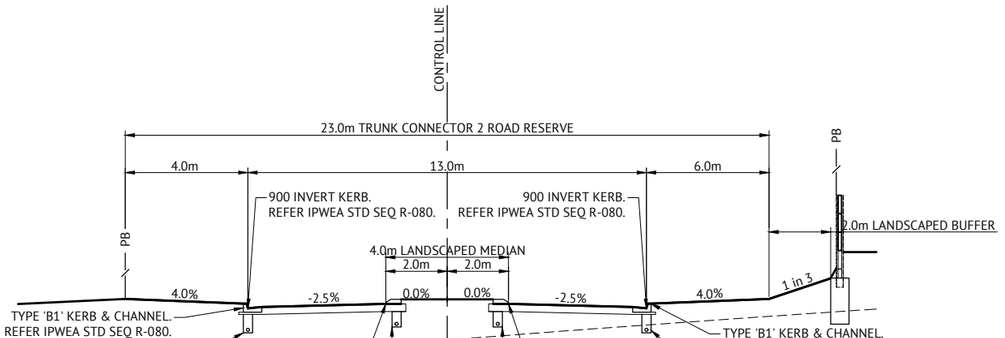

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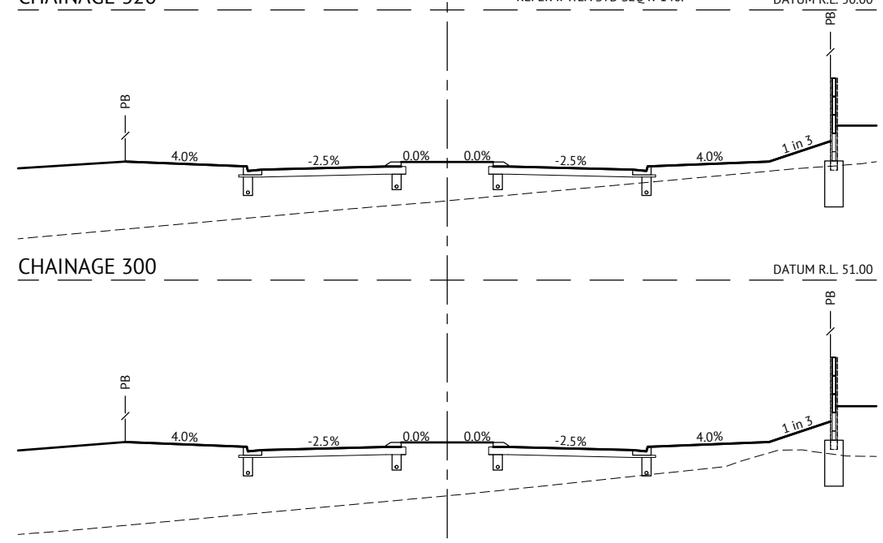
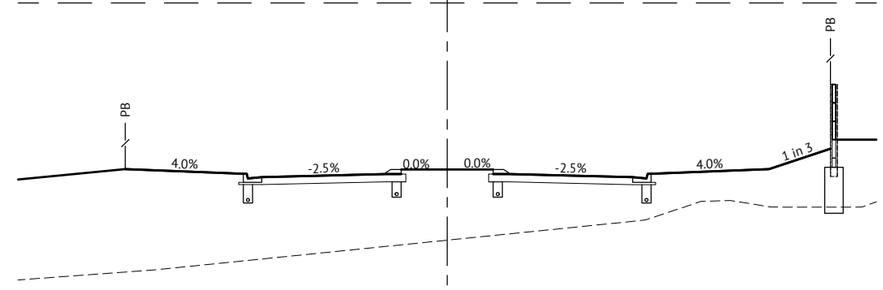


CHAINAGE 300 — DATUM R.L. 51.00

CHAINAGE 280 — DATUM R.L. 51.00



CHAINAGE 260 — DATUM R.L. 52.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

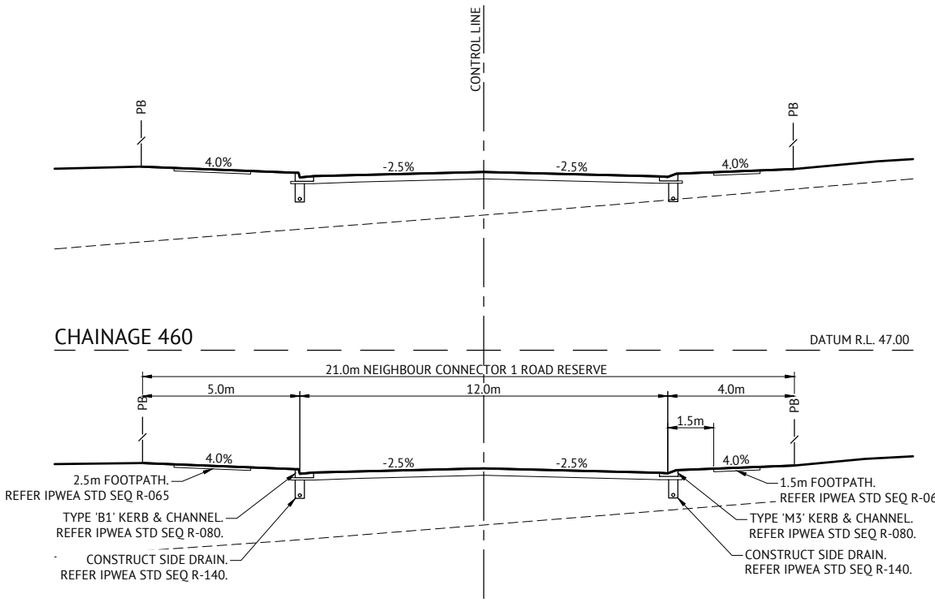
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ: K. Howells — KEITH HOWELLS — RPEQ 7295 — DATE 10/11/17

SCALE: 0 2 4 6m — SCALE 1:100 (A1)

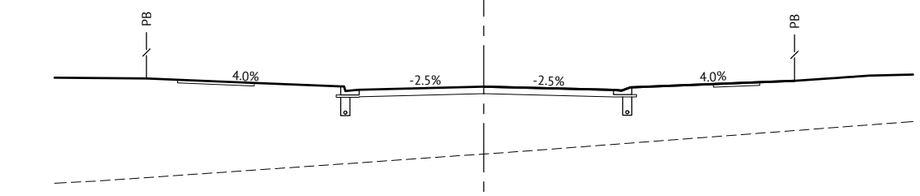
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EVERLEIGH DRIVE CROSS SECTIONS - SHEET 2 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C303	B



CHAINAGE 460 DATUM R.L. 47.00

CHAINAGE 440 DATUM R.L. 47.00



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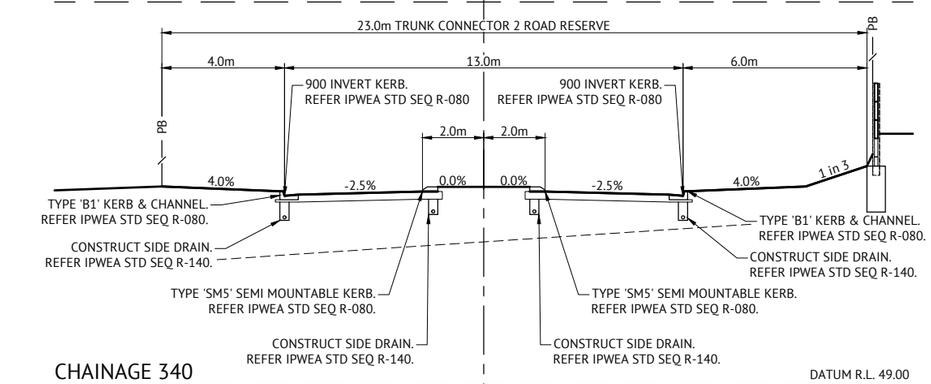

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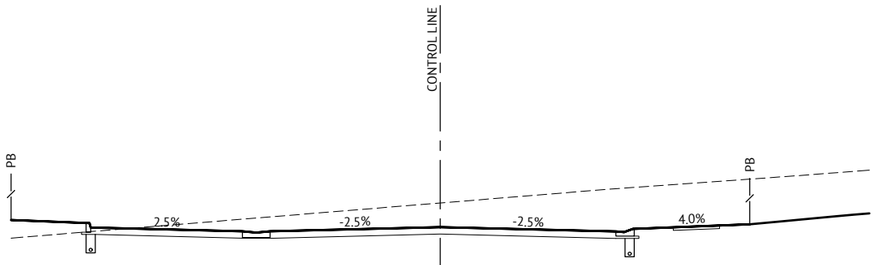

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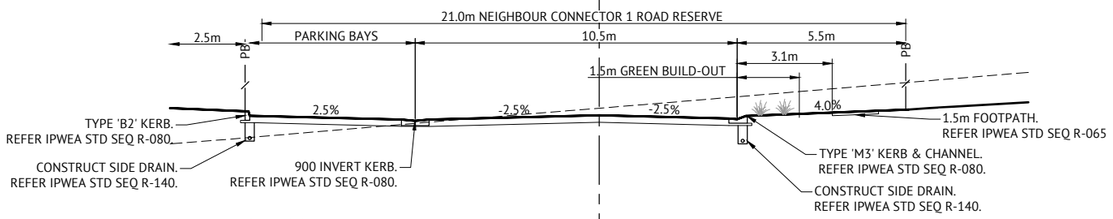

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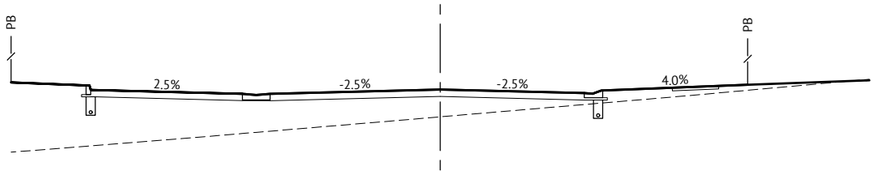
CHAINAGE 500 DATUM R.L. 47.00



CHAINAGE 480 DATUM R.L. 47.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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

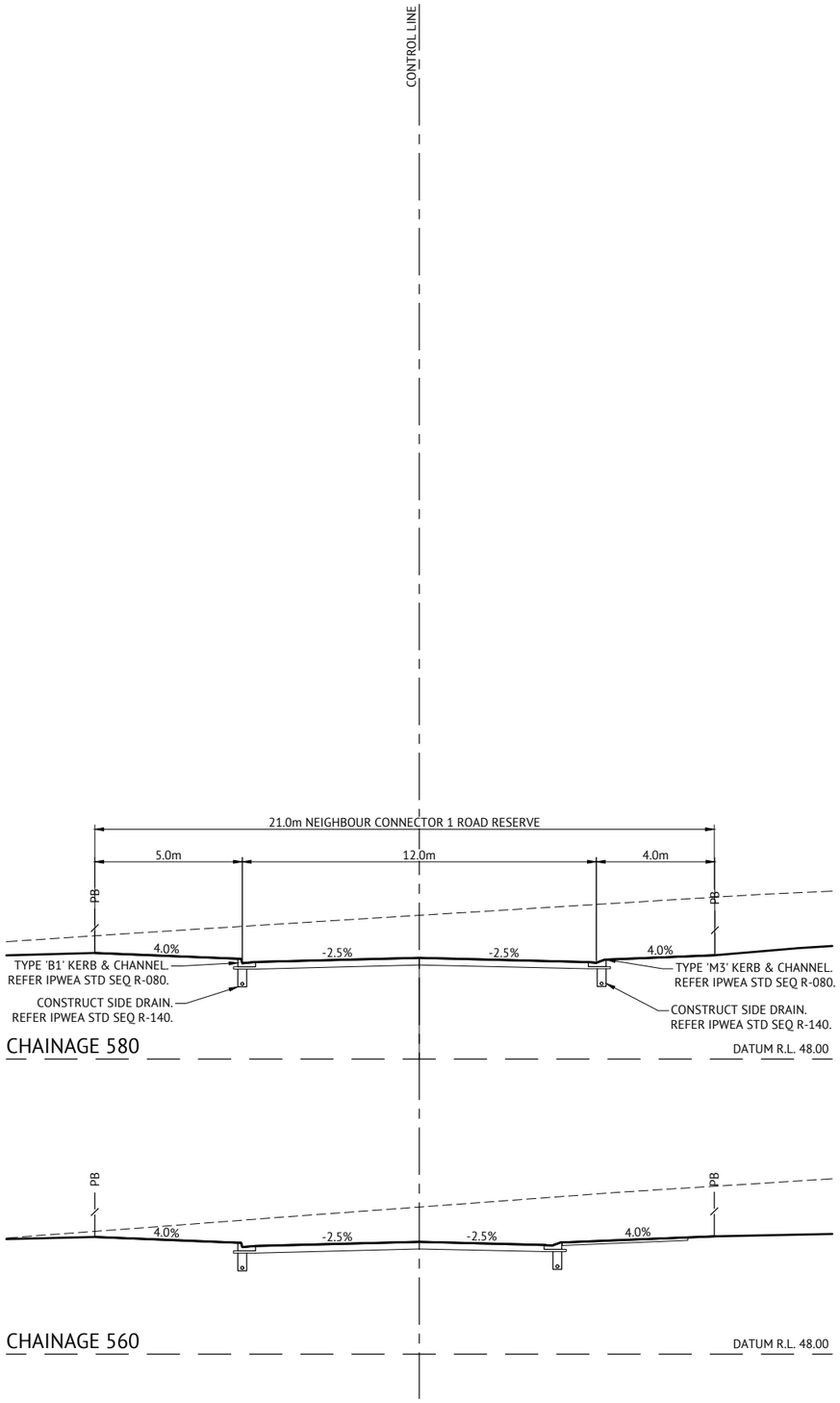
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EVERLEIGH DRIVE CROSS SECTIONS - SHEET 3 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C304	B



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

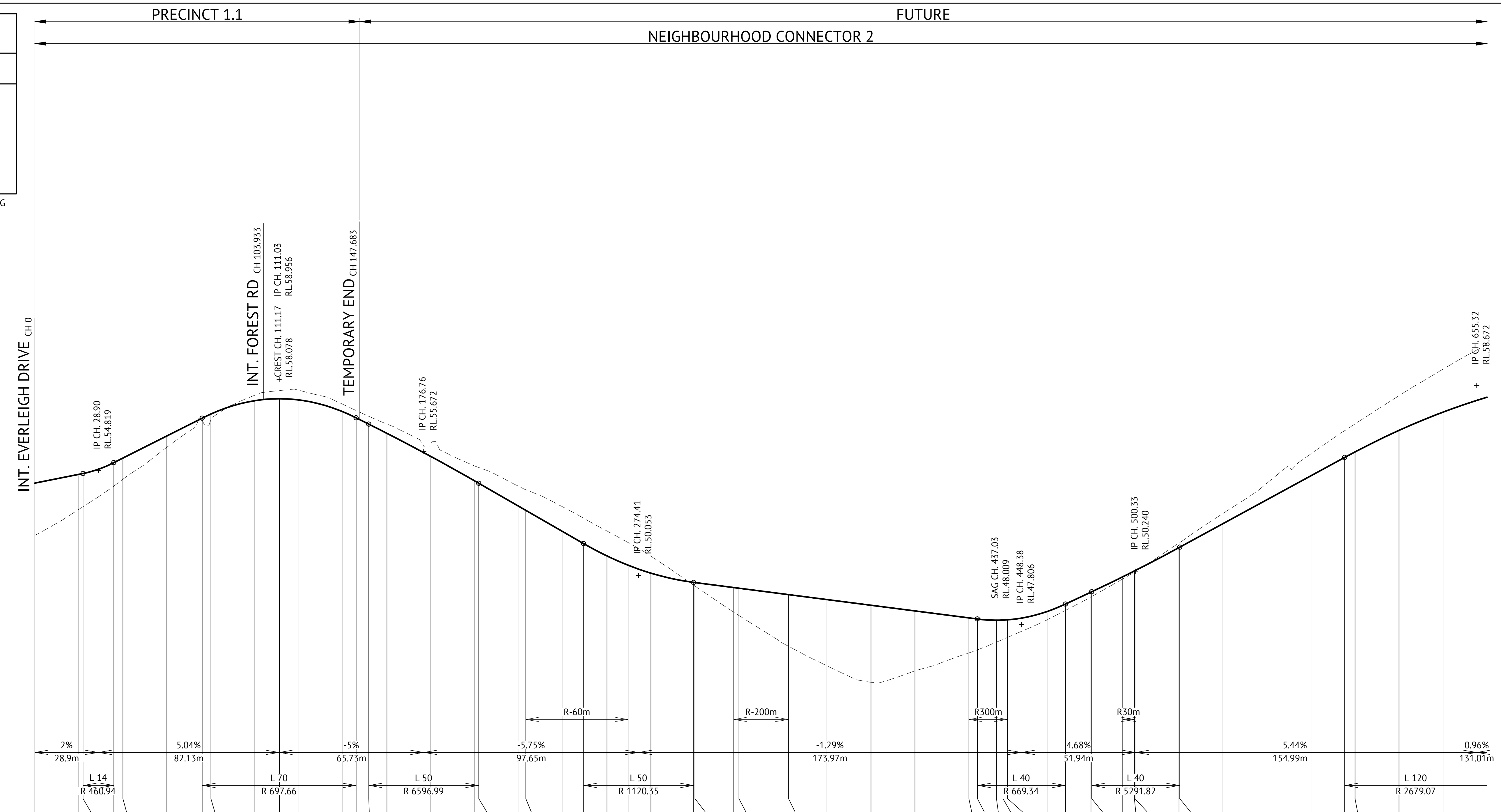
DESIGNED	MM		
CHECKED	JS	RPEQ	DATE 10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	DATE 10/11/17	SCALE	0 2 4 6m
JOSHUA STONE		SCALE 1:100 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EVERLEIGH DRIVE CROSS SECTIONS - SHEET 4 OF 4

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C305	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	KESSELS BOULEVARD (SOUTH)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.4 x 10^{6}
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE		PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.39.0

CHAINAGE	CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE
0.00	2.375			54.241	51.865
20.00	1.592	✳	✳	54.641	53.049
21.90	1.509			54.679	53.169
35.90	1.066			55.171	54.105
40.00	0.966	55.272	55.272	55.378	54.412
60.00	0.514	56.242	56.242	56.385	55.871
76.03	0.095	57.049	57.049	57.193	57.098
80.00	0.266	57.238	57.238	57.381	57.115
100.00	-0.248	✳	57.845	57.988	58.236
111.17	-0.373		57.934	58.078	58.450
120.00	-0.438	57.916	57.879	58.022	58.460
140.00	-0.337	57.339	57.339	57.482	57.820
146.03	-0.331	57.064	57.064	57.207	57.538
151.76	-0.355	56.777	56.777	56.921	57.276
160.00	-0.422	56.361	56.361	56.504	56.925
180.00	-0.579	55.306	55.306	55.449	56.028
200.00	-0.681	54.191	54.191	54.334	55.015
201.76	-0.718	54.090	54.090	54.233	54.951
220.00	-0.904	53.040	53.040	53.183	54.088
223.13	-0.936	52.860	52.860	53.004	53.939
240.00	-1.123	51.889	51.889	52.033	53.156
249.41	-1.156	51.348	51.348	51.491	52.647
260.00	-1.134	50.789	50.789	50.932	52.066
269.62	-1.028	50.367	50.367	50.511	51.539
280.00	-0.768	50.005	50.005	50.149	50.916
299.41	0.125	49.586	49.586	49.730	49.605
300.00	0.158	49.579	49.579	49.722	49.564
317.67	1.122	49.351	49.351	49.494	48.372
320.00	1.240	49.321	49.321	49.464	48.223
340.00	2.248	49.062	49.062	49.206	46.957
342.53	2.346	49.030	49.030	49.173	46.827
360.00	3.012	48.804	48.804	48.947	45.936
380.00	3.500	48.546	48.546	48.689	45.189
400.00	2.724	48.288	48.288	48.431	45.707
420.00	1.799	48.029	48.029	48.173	46.374
424.52	1.592	47.971	47.971	48.114	46.522
428.38	1.402	47.921	47.921	48.064	46.662
437.03	0.997	47.865	47.865	48.009	47.011
440.00	0.876	47.872	47.872	48.015	47.139
442.11	0.798	47.885	47.885	48.028	47.230
460.00	0.379	48.260	48.260	48.403	48.024
468.38	0.288	48.600	48.600	48.743	48.455
480.00	0.220	49.144	49.144	49.287	49.067
480.33	0.216	49.159	49.159	49.303	49.086
494.44	0.098	49.839	49.839	49.982	49.885
499.74	0.045	50.104	50.104	50.248	50.202
500.00	0.042	50.118	50.118	50.261	50.219
520.00	-0.207	51.167	51.167	51.310	51.517
520.33	-0.210	51.184	51.184	51.328	51.538
540.00	-0.465	52.255	52.255	52.398	52.863
560.00	-0.752	53.343	53.343	53.486	54.238
580.00	-1.000	54.431	54.431	54.574	55.575
595.32	-1.218	55.264	55.264	55.408	56.626
600.00	-1.273	55.515	55.515	55.658	56.931
620.00	-1.579	56.494	56.494	56.637	58.216
640.00	-1.953	57.323	57.323	57.466	59.419
660.00	-2.395	58.003	58.003	58.146	60.541

KESSELS BOULEVARD (SOUTH) LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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

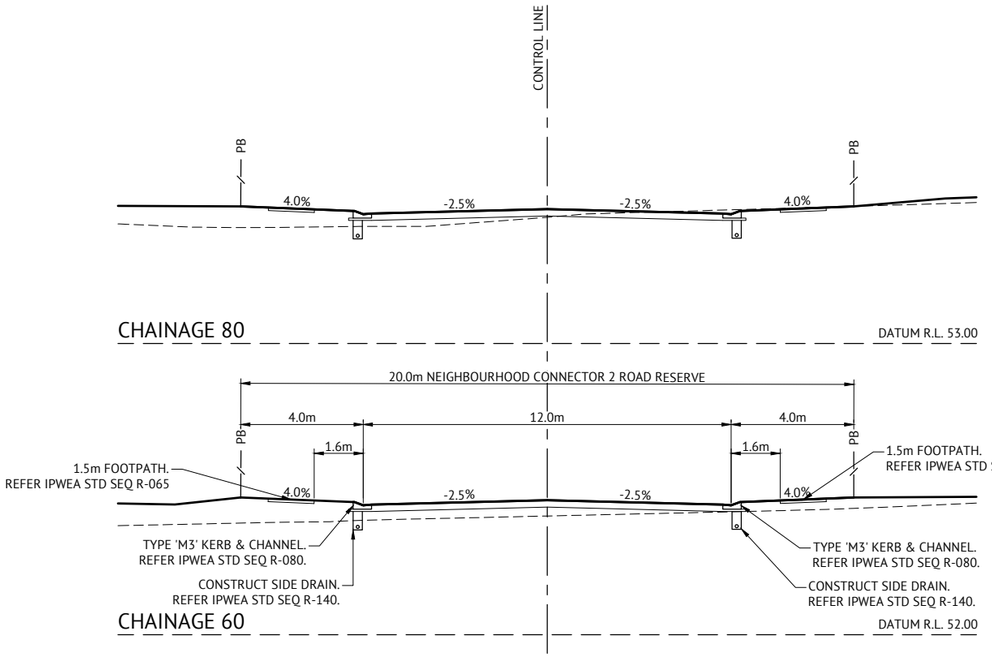
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 10/11/17

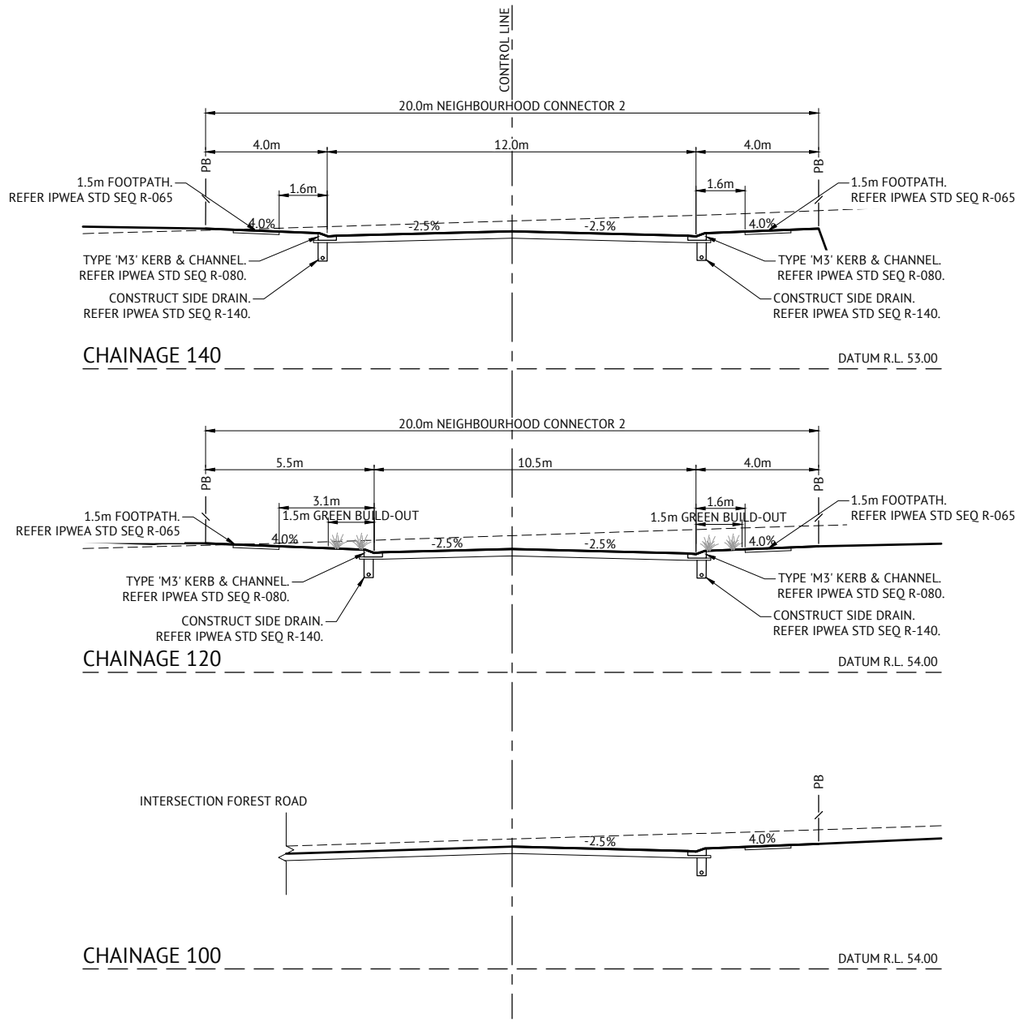
RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

SCALE 1:1000 (A1) 0 20 40 60m
SCALE 1:100 (A1) 0 2 4 6m

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE KESSELS BOULEVARD (SOUTH) LONGITUDINAL SECTIONS

JOB CODE MIR001-01
SHEET NUMBER C306
REV B





27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

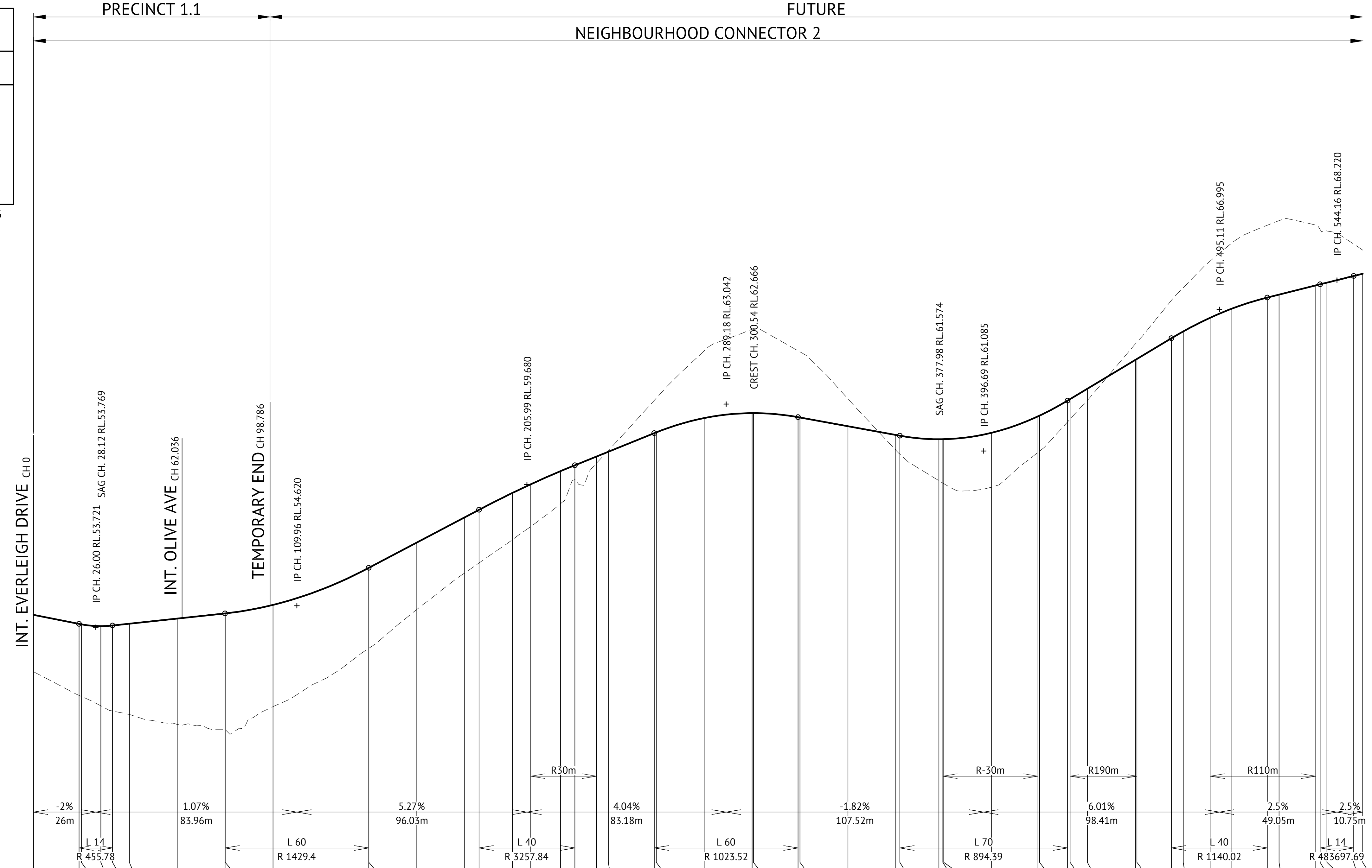
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS RPEQ 7295	10/11/17
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE	0 2 4 6m	
JOSHUA STONE	10/11/17	SCALE 1:100 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD (SOUTH) CROSS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C307	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	KESSELS BOULEVARD (NORTH)
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.4×10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE		PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.43.0

CHAINAGE	CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE
0.00	2.375			54.241	51.865
19.00	2.984	*	*	53.861	50.876
20.00	3.010			53.842	50.832
28.12	3.332			53.769	50.438
33.00	3.573			53.796	50.222
40.00	3.795	53.769	53.769	53.871	50.075
60.00	4.425	*	53.942	54.085	49.660
79.96	4.858	54.193	54.156	54.299	49.441
80.00	4.859	54.193	54.156	54.299	49.441
100.00	4.249	54.511	54.511	54.654	50.405
120.00	3.801	55.145	55.145	55.289	51.488
139.96	3.361	56.058	56.058	56.201	52.840
140.00	3.360	56.060	56.060	56.203	52.843
160.00	2.794	57.114	57.114	57.257	54.463
180.00	2.323	58.168	58.168	58.311	55.988
185.99	2.221	58.483	58.483	58.627	56.405
200.00	1.950	59.191	59.191	59.335	57.385
207.59	1.766	59.550	59.550	59.693	57.927
220.00	1.363	60.098	60.098	60.241	58.878
225.99	0.602	60.346	60.346	60.489	59.887
235.08	0.277	60.713	60.713	60.856	60.579
240.00	-0.052	60.912	60.912	61.055	61.107
259.18	-1.369	61.687	61.687	61.830	63.199
260.00	-1.426	61.719	61.719	61.863	63.289
280.00	-2.810	62.316	62.316	62.460	65.270
300.00	-3.506	62.522	62.522	62.666	66.171
300.54	-3.528	62.522	62.522	62.666	66.193
319.18	-2.775	62.353	62.353	62.496	65.271
320.00	-2.743	62.338	62.338	62.481	65.224
340.00	-1.150	61.974	61.974	62.117	63.267
360.00	0.634	61.610	61.610	61.753	61.118
361.69	0.774	61.579	61.579	61.722	60.948
377.98	1.731	61.431	61.431	61.574	59.843
379.63	1.834	61.432	61.432	61.575	59.742
380.00	1.857	61.433	61.433	61.576	59.719
400.00	2.273	61.702	61.702	61.845	59.572
419.36	1.505	62.388	62.388	62.531	61.026
420.00	1.484	62.418	62.418	62.561	61.077
431.69	0.889	63.044	63.044	63.187	62.297
432.76	0.835	63.108	63.108	63.251	62.416
440.00	0.490	63.542	63.542	63.686	63.196
460.00	-0.670	64.744	64.744	64.887	65.557
460.66	-0.703	64.783	64.783	64.926	65.630
475.11	-1.587	65.651	65.651	65.794	67.381
480.00	-1.828	65.934	65.934	66.077	67.905
491.22	-2.369	66.505	66.505	66.648	69.017
500.00	-2.734	66.874	66.874	67.017	69.752
515.11	-3.022	67.351	67.351	67.495	70.517
520.00	-3.088	67.474	67.474	67.617	70.705
535.31	-2.523	67.856	67.856	67.999	70.522
537.16	-2.289	67.902	67.902	68.045	70.334
540.00	-2.158	67.973	67.973	68.116	70.275
551.16	-1.332	68.252	68.252	68.395	69.727
554.91	-0.987			68.489	69.476

KESSELS BOULEVARD (NORTH) LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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

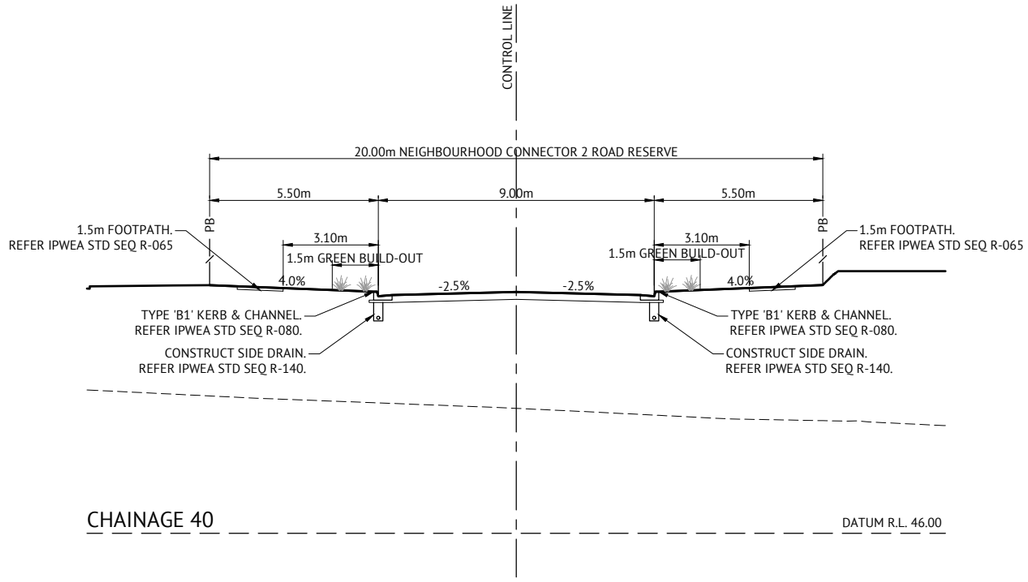
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 10/11/17

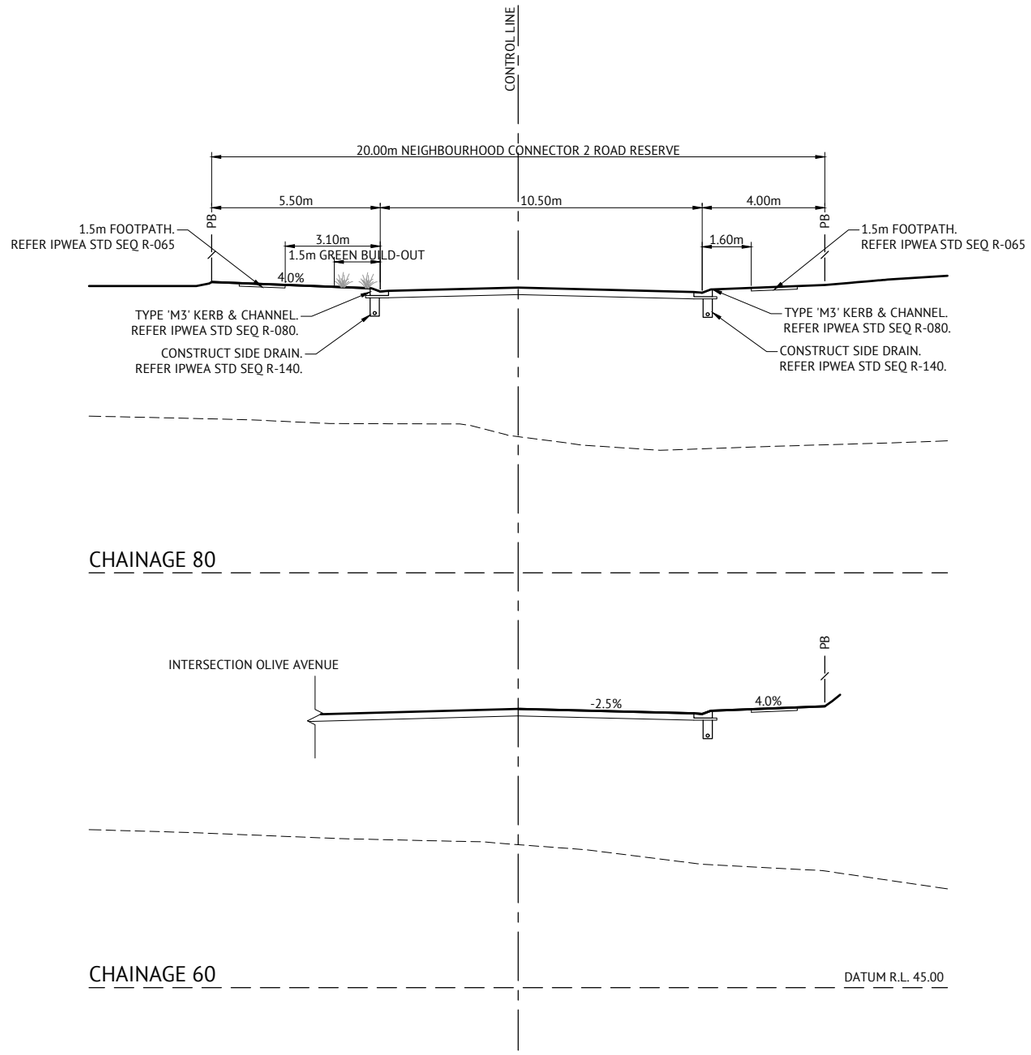
RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

SCALE 1:1000 (A1) 0 20 40 60m
SCALE 1:100 (A1) 0 2 4 6m

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE KESSELS BOULEVARD (NORTH) LONGITUDINAL SECTIONS

JOB CODE MIR001-01
SHEET NUMBER C308
REV B





27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ KEITH HOWELLS 10/11/17 RPEQ 7295

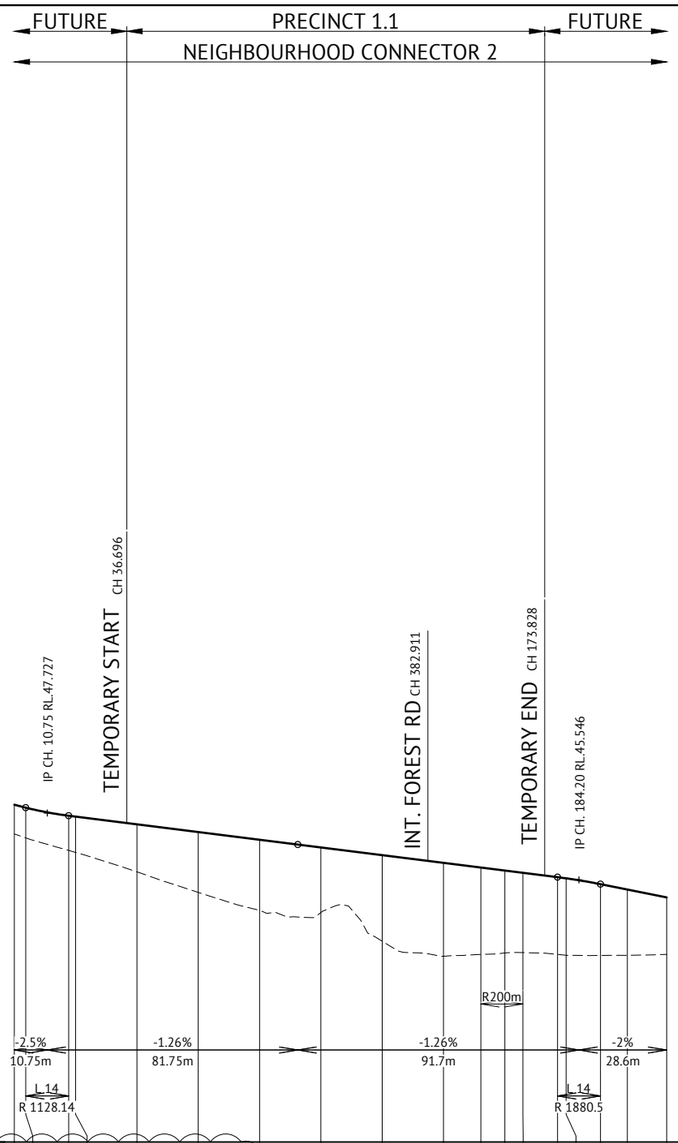
SCALE 0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD (NORTH) CROSS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C309	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	EMERALD PARADE
CLASS	-	NEIGHBOURHOOD CONNECTOR 2
ESA's	-	6.4×10^6
SURFACE	-	50mm AC of 14mm MIX
PRIMER TYPE		PRIMER SEAL
CBR 80	-	300mm
CBR 45	-	100mm
TOTAL BOX	-	450mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%) -2.5% -1.26% -1.26% -2%
Vertical Grade Length (m) 10.75m 81.75m 91.7m 28.6m

Vertical Curve Length (m) L 14 L 14
Vertical Curve Radius (m) R 1128.14 R 1880.5

B

DATUM R.L.37.0

CUT (-)/FILL DEPTH	0.962	1.001	1.146	1.182	1.558	1.973	2.305	2.125	2.803	3.047	2.832	2.687	2.600	2.517	2.508	2.324	2.141	1.856
LHS LIP LEVEL			47.508	47.479	47.224	46.969	46.714	46.460	46.246	✳		45.707	45.632	45.491	45.453			
RHS LIP LEVEL			47.508	47.479	47.224	46.969	46.714	46.460	46.209	45.995	45.805	45.707	45.632	45.491				
DESIGN SURFACE	48.009	47.915	47.651	47.622	47.367	47.112	46.857	46.603	46.352	46.101	45.948	45.850	45.776	45.634	45.597	45.406	45.230	44.974
NATURAL SURFACE	47.047	46.914	46.505	46.441	45.809	45.139	44.552	44.478	43.549	43.054	43.116	43.163	43.175	43.116	43.088	43.082	43.089	43.118
CHAINAGE	0.00	3.75	17.75	20.00	40.00	60.00	80.00	100.00	120.00	140.00	152.17	160.00	165.91	177.20	180.00	191.20	200.00	212.80

EMERALD PARADE LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

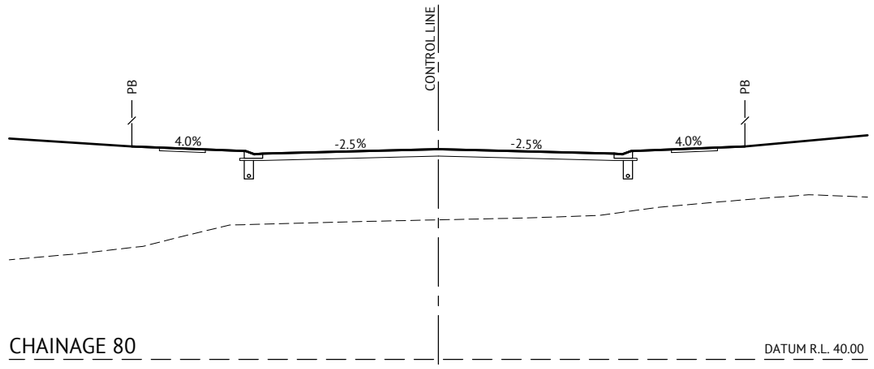
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MM	RPEQ	DATE
CHECKED	JS		10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 10/11/17	

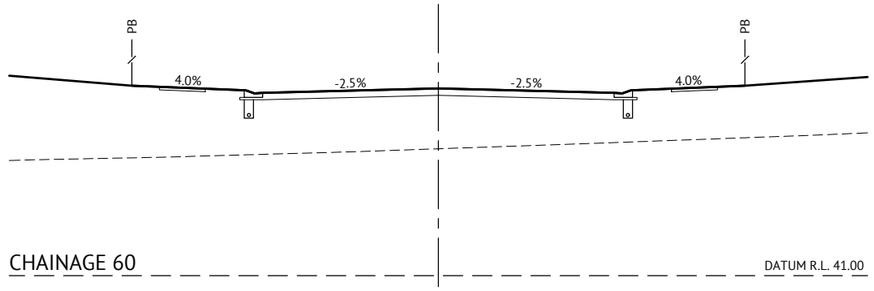
SCALE
SCALE 1:1000 (A1)
0 20 40 60m
0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EMERALD PARADE LONGITUDINAL SECTIONS

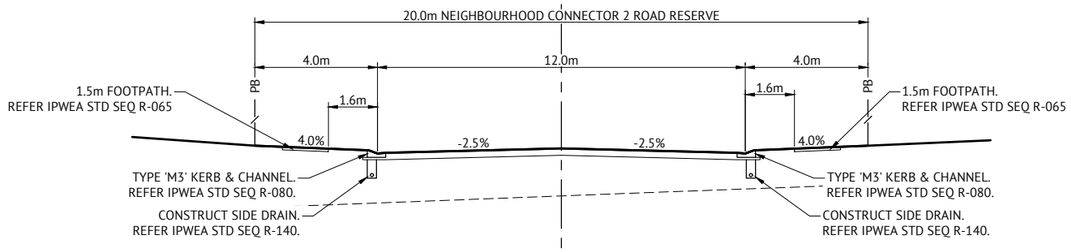
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C310	B



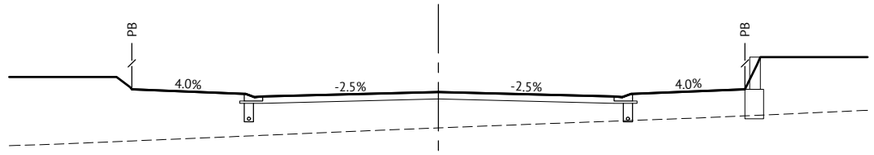
CHAINAGE 80 — DATUM R.L. 40.00



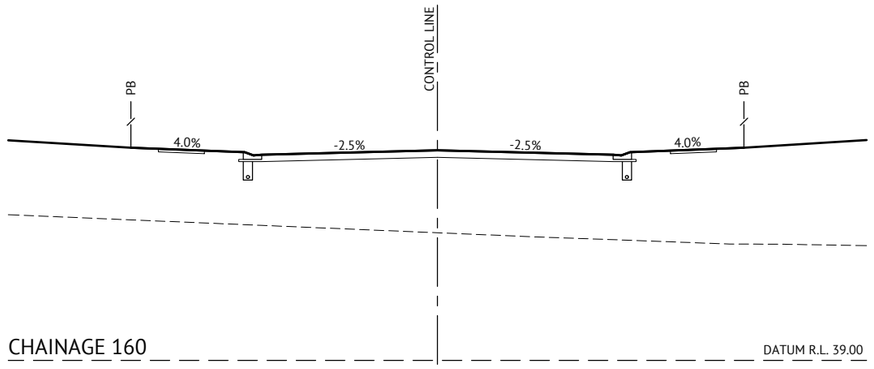
CHAINAGE 60 — DATUM R.L. 41.00



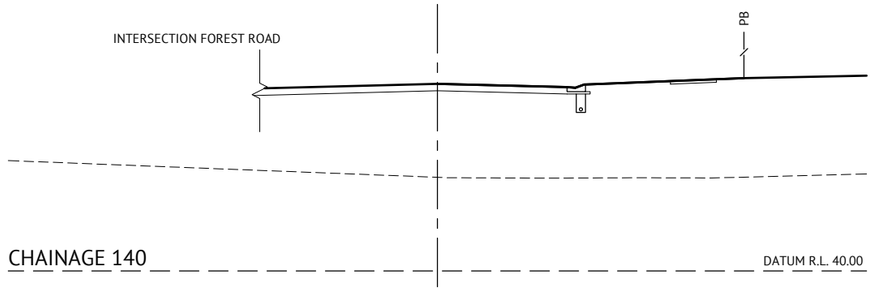
CHAINAGE 40 — DATUM R.L. 42.00



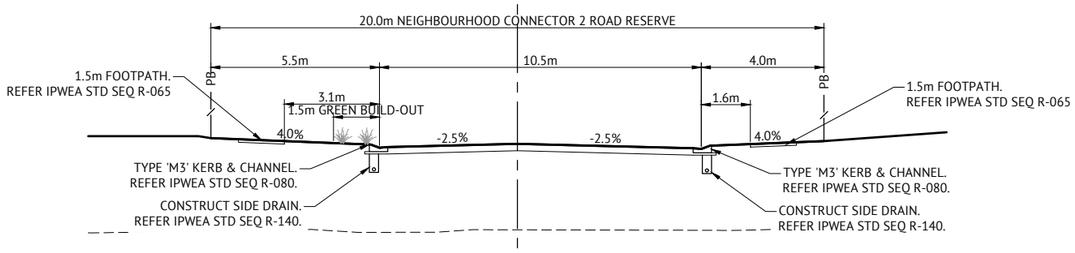
CHAINAGE 20 — DATUM R.L. 42.00



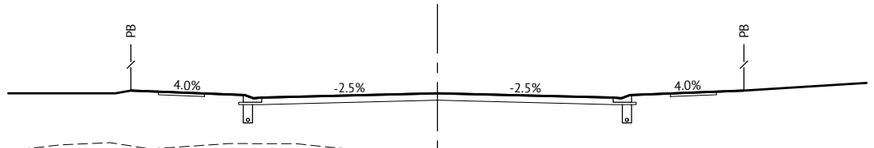
CHAINAGE 160 — DATUM R.L. 39.00



CHAINAGE 140 — DATUM R.L. 40.00



CHAINAGE 120 — DATUM R.L. 40.00



CHAINAGE 100 — DATUM R.L. 41.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ KEITH HOWELLS RPEQ 7295 — DATE 10/11/17

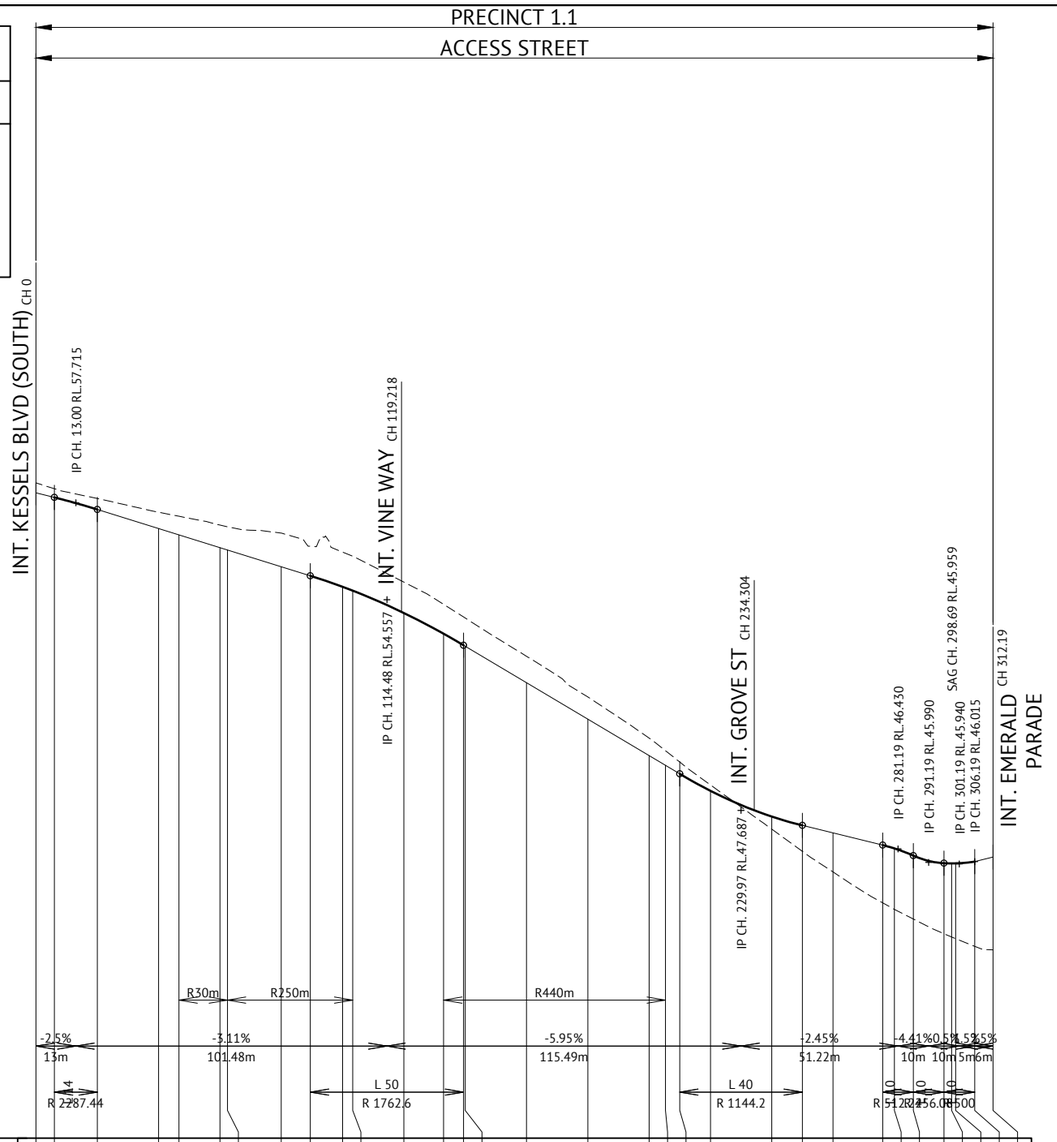
SCALE 0 2 4 6m — SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EMERALD PARADE CROSS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C311	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	FOREST ROAD
CLASS	-	ACCESS STREET
ESA's	-	5.9 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



DATUM R.L.37.0

CHAINAGE	0.00	6.00	20.00	40.00	46.65	60.00	62.44	80.00	89.48	100.00	103.33	120.00	132.95	139.48	140.00	160.00	180.00	200.00	205.32	209.97	220.00	240.00	249.97	260.00	276.19	280.00	286.19	296.19	298.69	300.00	306.19	312.19
NATURAL SURFACE	58.363	58.173	57.855	57.408	57.276	56.988	56.933	56.727	56.297	56.108	55.972	55.129	54.403	53.991	53.958	52.712	51.384	50.043	49.634	49.266	48.517	47.075	46.353	45.678	44.670	44.459	44.142	43.664	43.556	43.500	43.255	43.140
DESIGN SURFACE	58.040	57.890	57.497	56.875	56.668	56.252	56.176	55.630	55.335	54.976	54.849	54.121	53.446	53.070	53.059	51.849	50.659	49.470	49.153	48.877	48.324	47.484	47.196	46.950	46.553	46.445	46.210	45.965	45.959	45.960	46.015	46.165
RHS LIP LEVEL			57.410	56.788	56.581	56.165	56.089	55.543	55.248	54.889	54.762	54.034	53.359	52.983	52.952	51.762	50.572	49.383	49.066	48.790	48.237	47.397	47.109	46.863	46.466	46.358	46.123	45.878				
LHS LIP LEVEL			57.410	56.788	56.581	56.165	56.089	55.543	55.248	54.889	54.762	54.034	53.359	52.983	52.952	51.762	50.572	49.383	49.066	48.790	48.237	47.397	47.109	46.863	46.466	46.358	46.123	45.900				
CUT (-)/FILL DEPTH	-0.323	-0.283	-0.357	-0.533	-0.608	-0.735	-0.757	-1.097	-0.962	-1.132	-1.122	-1.008	-0.957	-0.921	-0.919	-0.863	-0.725	-0.573	-0.480	-0.390	-0.194	0.409	0.843	1.273	1.883	1.986	2.068	2.301	2.402	2.460	2.760	3.025

FOREST ROAD LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	C	ROAD GEOMETRY AMENDED	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

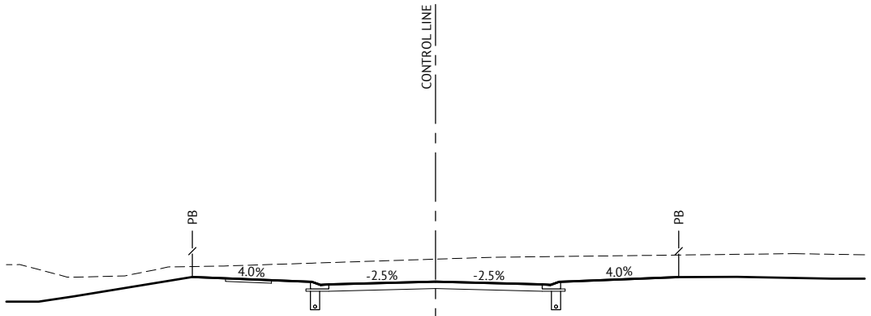
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	12/01/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 12/01/18

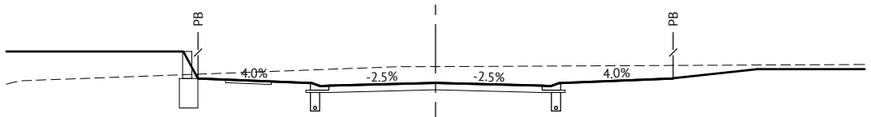
SCALE
SCALE 1:1000 (A1)
0 20 40 60m
0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	FOREST ROAD LONGITUDINAL SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C312	C



CHAINAGE 60 — DATUM R.L. 52.00



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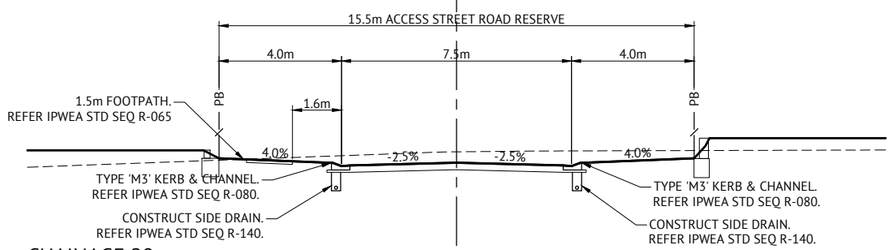

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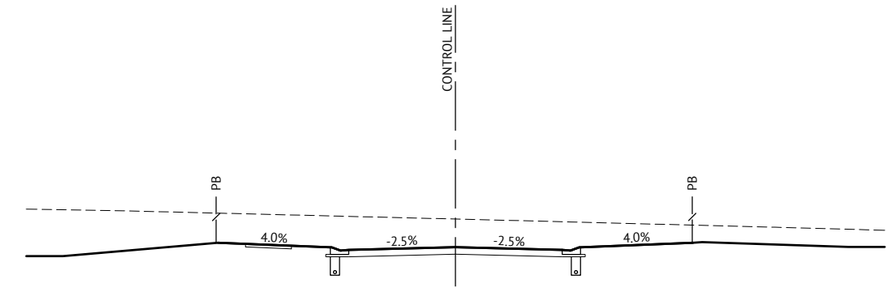

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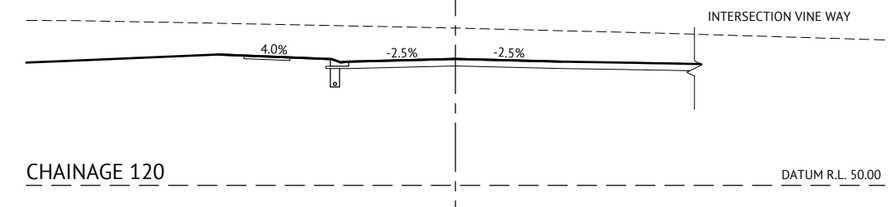
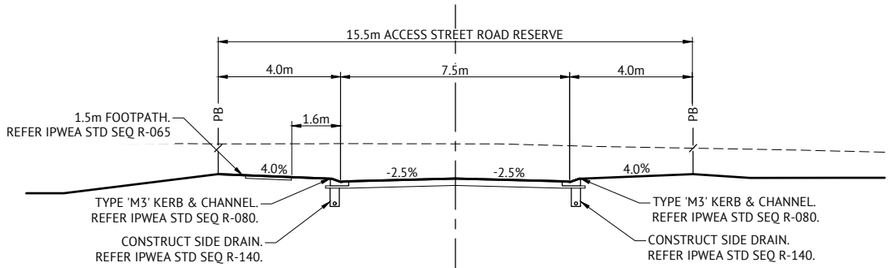
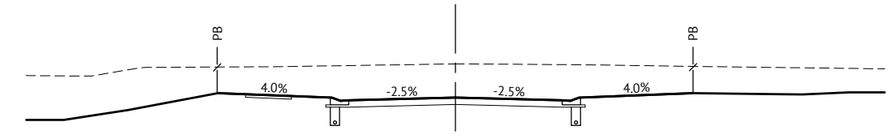


CHAINAGE 120 — DATUM R.L. 50.00



CHAINAGE 100 — DATUM R.L. 51.00



CHAINAGE 80 — DATUM R.L. 51.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	C	ROAD GEOMETRY AMENDED	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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

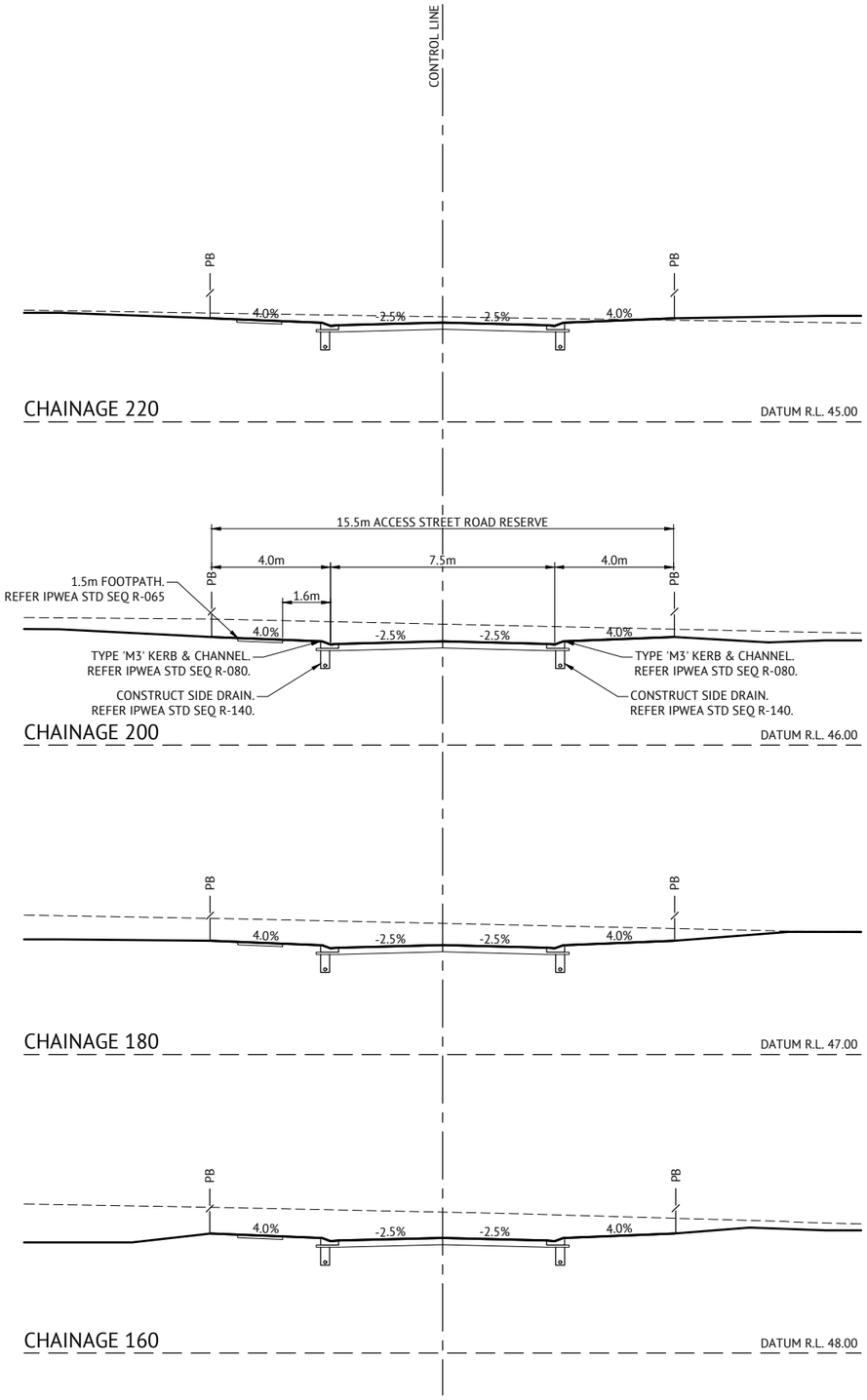
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	12/01/18

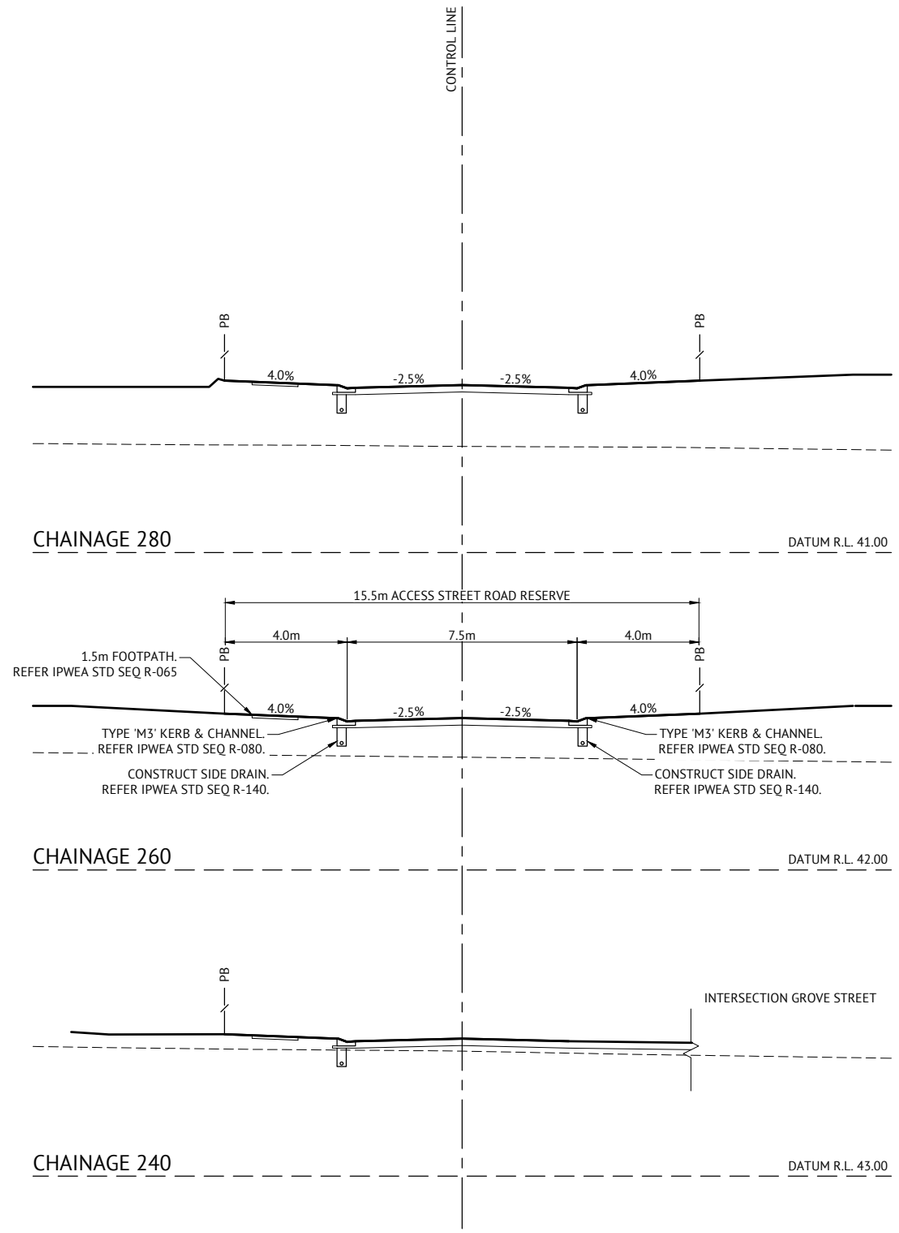
RPEQ — KEITH HOWELLS RPEQ 7295 — DATE 12/01/18

SCALE 0 2 4 6m — SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	FOREST ROAD CROSS SECTIONS - SHEET 1 OF 2

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C313	C





27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

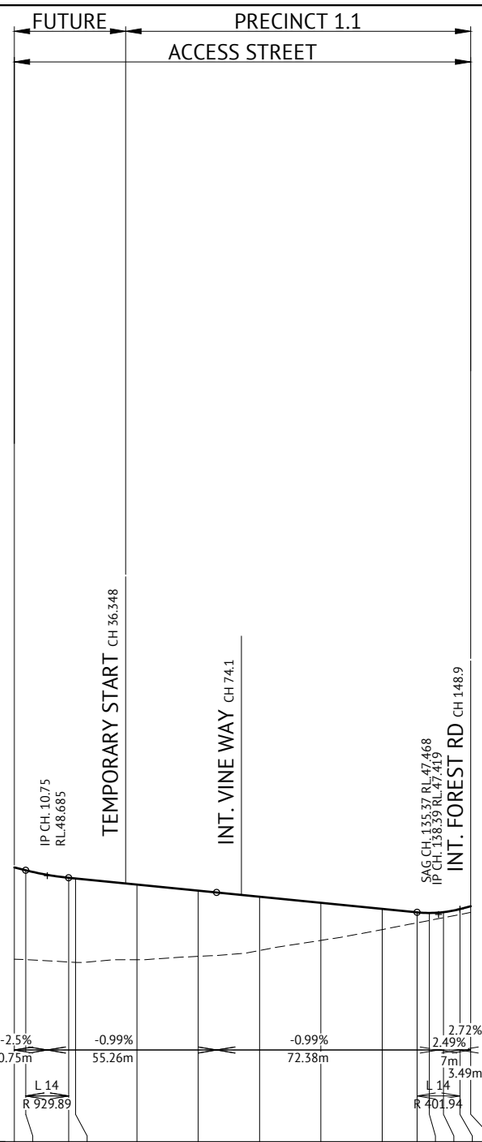
DESIGNED	MM	RPEQ	DATE
CHECKED	JS		10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	10/11/17	0 2 4 6m	
		SCALE 1:100 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	FOREST ROAD CROSS SECTIONS - SHEET 2 OF 2

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C314	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	GROVE STREET
CLASS	-	ACCESS STREET
ESA's	-	5.9×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%)		-2.5%		-0.99%		-0.99%				2.72%	2.49%		
Vertical Grade Length (m)		10.75m		55.26m		72.38m				7m			
Vertical Curve Length (m)										3.49m			
Vertical Curve Radius (m)		L 14 R 929.89								L 14 R 401.94			

DATUM R.L.40.0

CUT (-)/FILL DEPTH	2.995	2.914	2.747	2.738	2.451	2.142	1.753	1.225	0.675	0.341	0.245	0.182	0.176	0.205
LHS LIP LEVEL			48.528	48.506	48.307	48.108	47.910	47.712	47.514	47.401	✳			
RHS LIP LEVEL				48.506	48.307	48.108	47.910	47.712	47.514	47.401	✳			
DESIGN SURFACE	48.953	48.860	48.615	48.593	48.394	48.195	47.997	47.799	47.601	47.488	47.468	47.495	47.593	47.688
NATURAL SURFACE	45.958	45.946	45.869	45.855	45.943	46.053	46.243	46.573	46.926	47.147	47.223	47.313	47.417	47.483
CHAINAGE	0.00	3.75	17.75	20.00	40.00	60.00	80.00	100.00	120.00	131.39	135.37	140.00	145.39	148.88

GROVE STREET LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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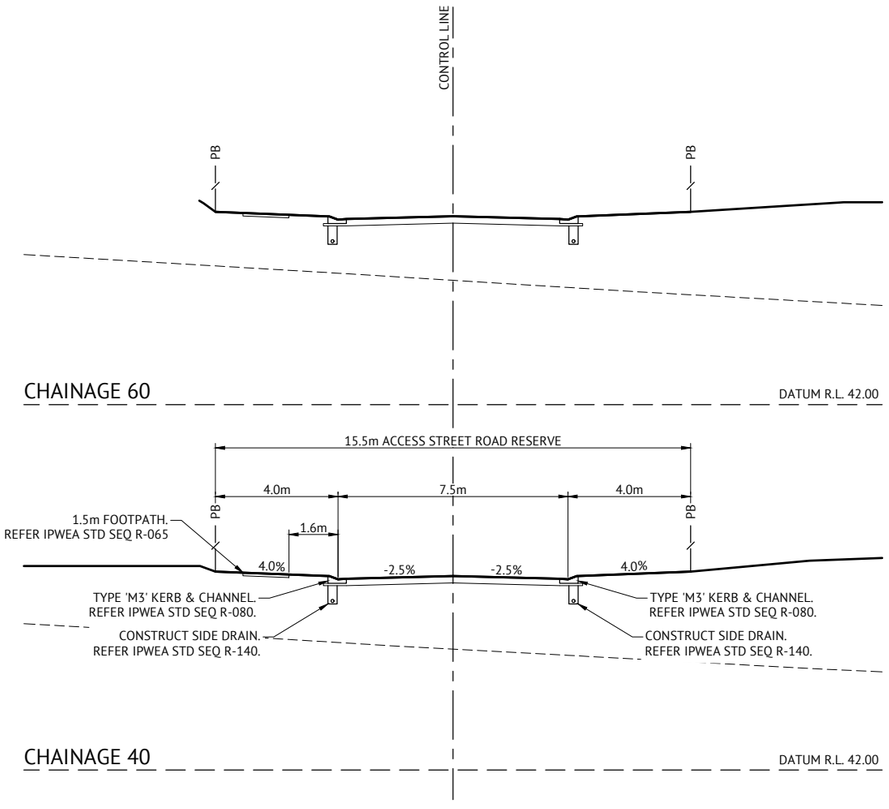
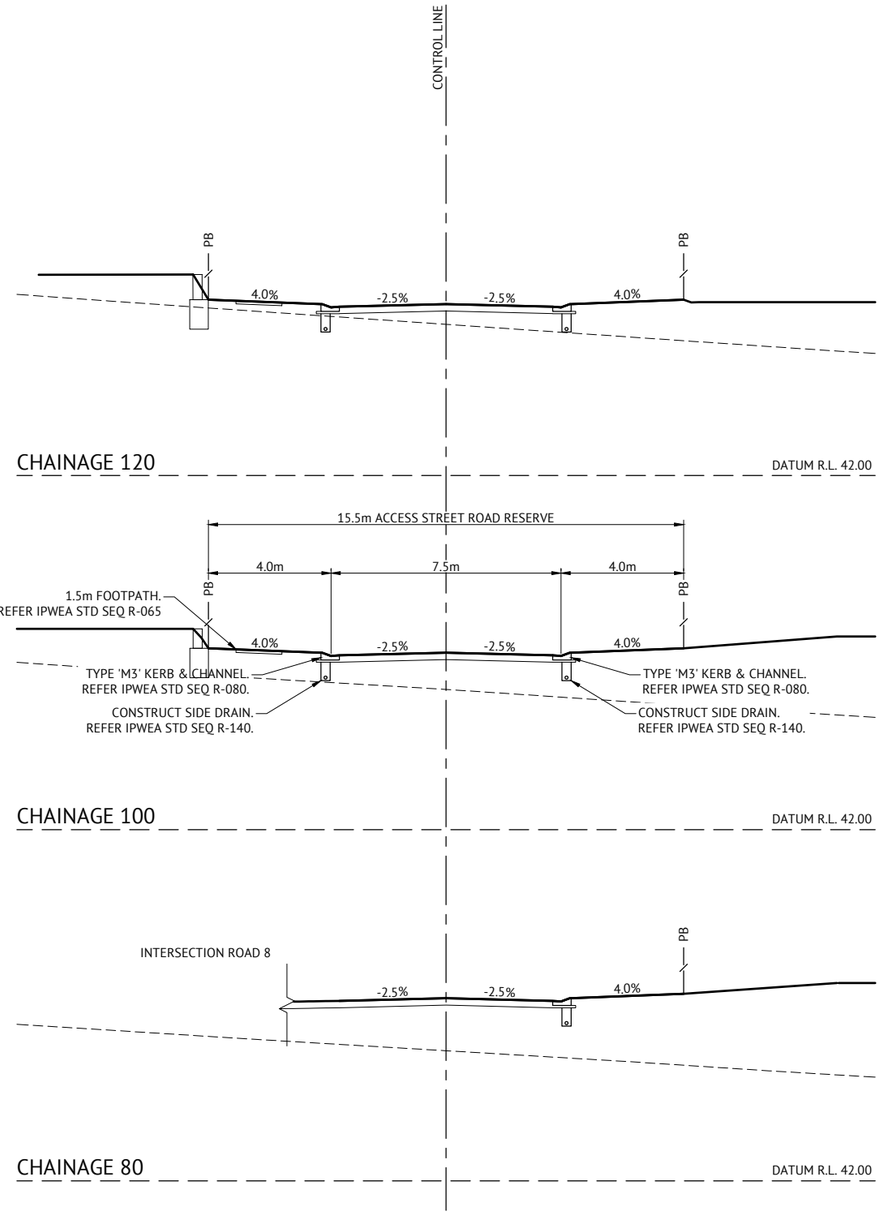
WEB: www.premise.com.au

DESIGNED	MM	RPEQ	DATE
CHECKED	JS		10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	10/11/17	SCALE 1:1000 (A1) 0 20 40 60m; SCALE 1:100 (A1) 0 2 4 6m	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	GROVE STREET LONGITUDINAL SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C315	B





27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 10/11/17

RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

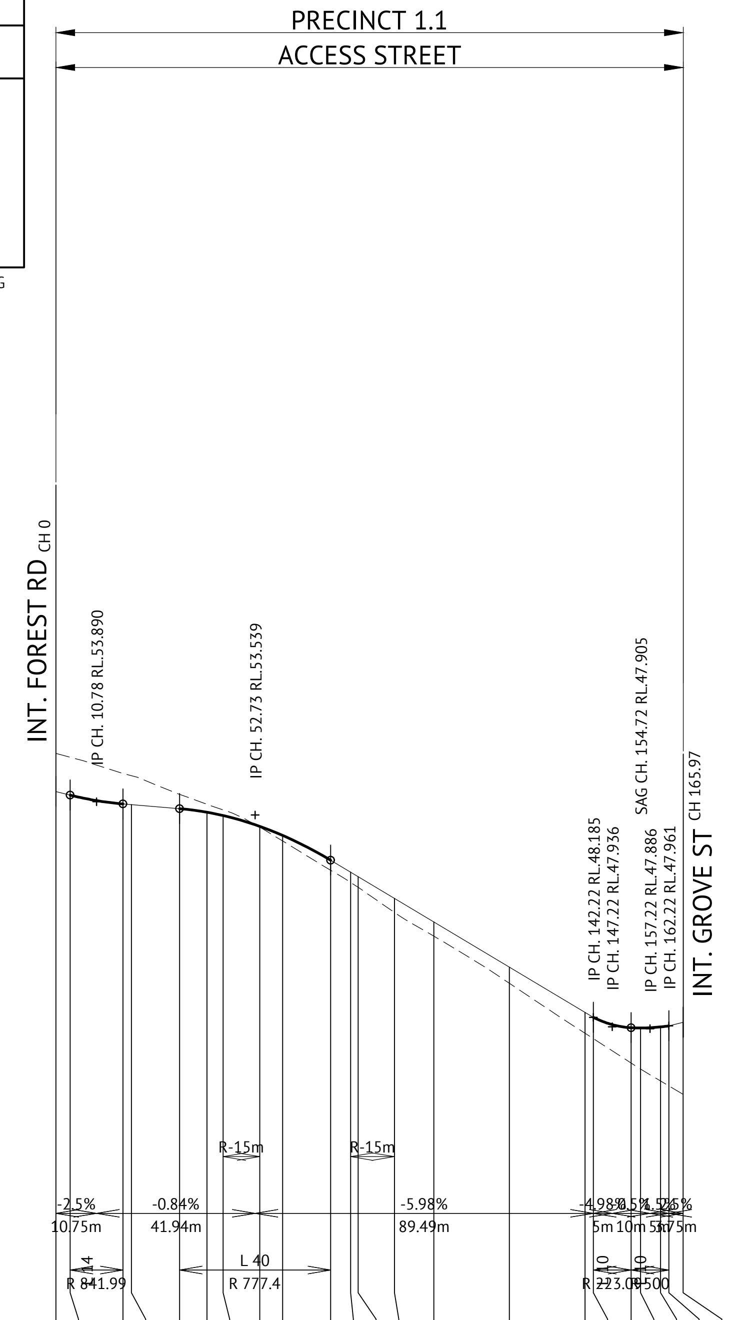
SCALE 0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	GROVE STREET CROSS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C316	B

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	VINE WAY
CLASS	-	ACCESS STREET
ESA's	-	5.9 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



⚹ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.40.0

CUT (-)/FILL DEPTH		-1.003	-0.809	-0.766	-0.380	-0.210	-0.152	0.022	0.147	0.266	0.272
LHS LIP LEVEL			53.744	53.726	53.619	53.524	53.437	53.151	52.913	52.255	51.941
RHS LIP LEVEL			53.744	53.726	53.619	53.524	53.437	53.151	52.913	52.255	51.941
DESIGN SURFACE		54.065	53.831	53.813	53.706	53.611	53.524	53.238	53.000	52.342	52.028
NATURAL SURFACE	55.169	55.068	54.640	54.579	54.086	53.821	53.677	53.216	52.852	52.076	51.756
CHAINAGE	0.00	3.78	17.78	20.00	32.73	40.00	44.25	53.97	60.00	72.73	77.98

CUT (-)/FILL DEPTH	0.283	0.373	0.376	0.428	0.553	0.564	0.935	1.089	1.431	1.591	1.908
LHS LIP LEVEL	51.820	51.246	50.624	49.427	48.231	48.098					
RHS LIP LEVEL	51.820	51.246	50.624	49.427	48.231	48.098					
DESIGN SURFACE	51.907	51.333	50.711	49.514	48.318	48.185	47.911	47.905	47.933	47.961	48.055
NATURAL SURFACE	51.624	50.959	50.335	49.087	47.764	47.621	46.976	46.816	46.502	46.370	46.147
CHAINAGE	80.00	89.60	100.00	120.00	140.00	142.22	152.22	154.72	160.00	162.22	165.97

VINE WAY LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	C	ROAD GEOMETRY AMENDED	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

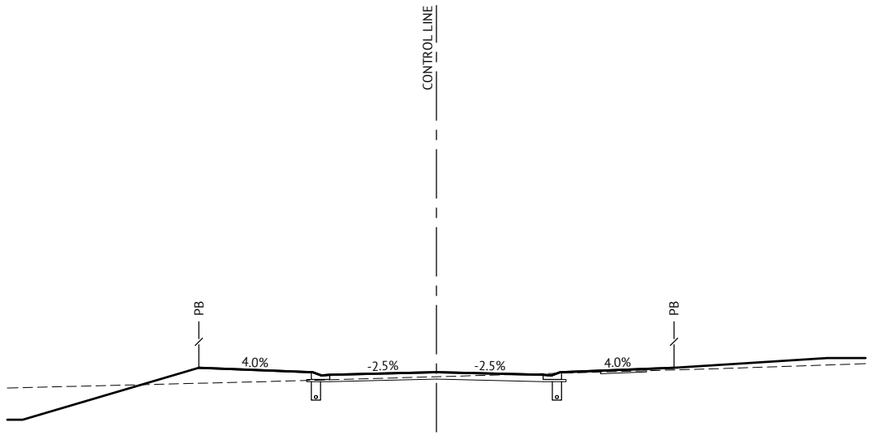
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 12/01/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 12/01/18

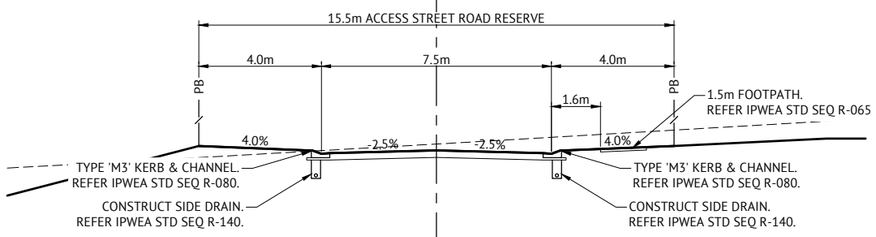
SCALE
SCALE 1:1000 (A1) 0 20 40 60m
0 2 4 6m SCALE 1:100 (A1)

CLIENT **MIRVAC**
PROJECT **EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **VINE WAY LONGITUDINAL SECTIONS**

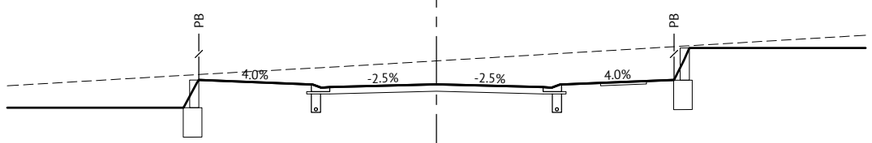
JOB CODE MIR001-01
SHEET NUMBER C317
REV C



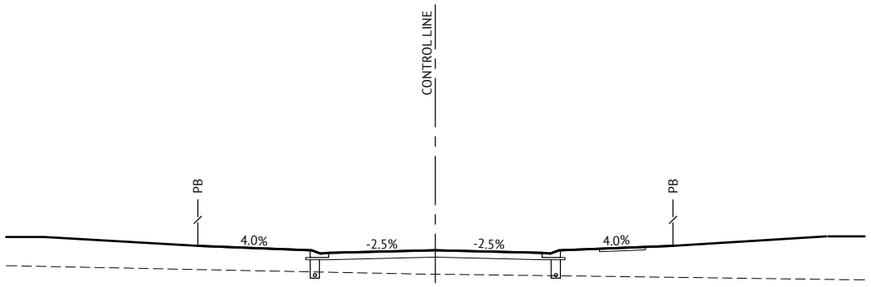
CHAINAGE 60 — DATUM R.L. 48.00



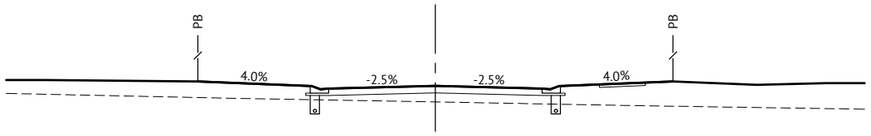
CHAINAGE 40 — DATUM R.L. 49.00



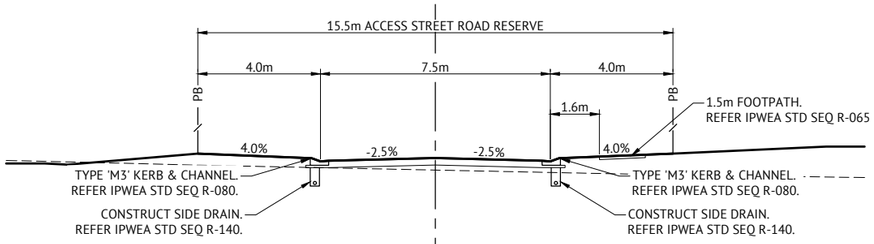
CHAINAGE 20 — DATUM R.L. 50.00



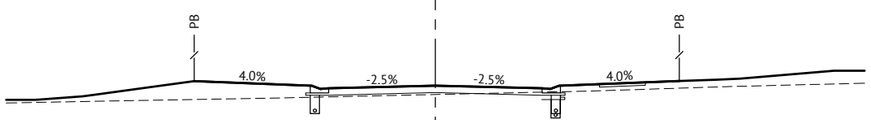
CHAINAGE 140 — DATUM R.L. 44.00



CHAINAGE 120 — DATUM R.L. 45.00



CHAINAGE 100 — DATUM R.L. 47.00



CHAINAGE 80 — DATUM R.L. 48.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	C	ROAD GEOMETRY AMENDED	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise
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FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ — KEITH HOWELLS RPEQ 7295 — DATE 10/11/17

SCALE 0 2 4 6m — SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	VINE WAY CROSS SECTIONS

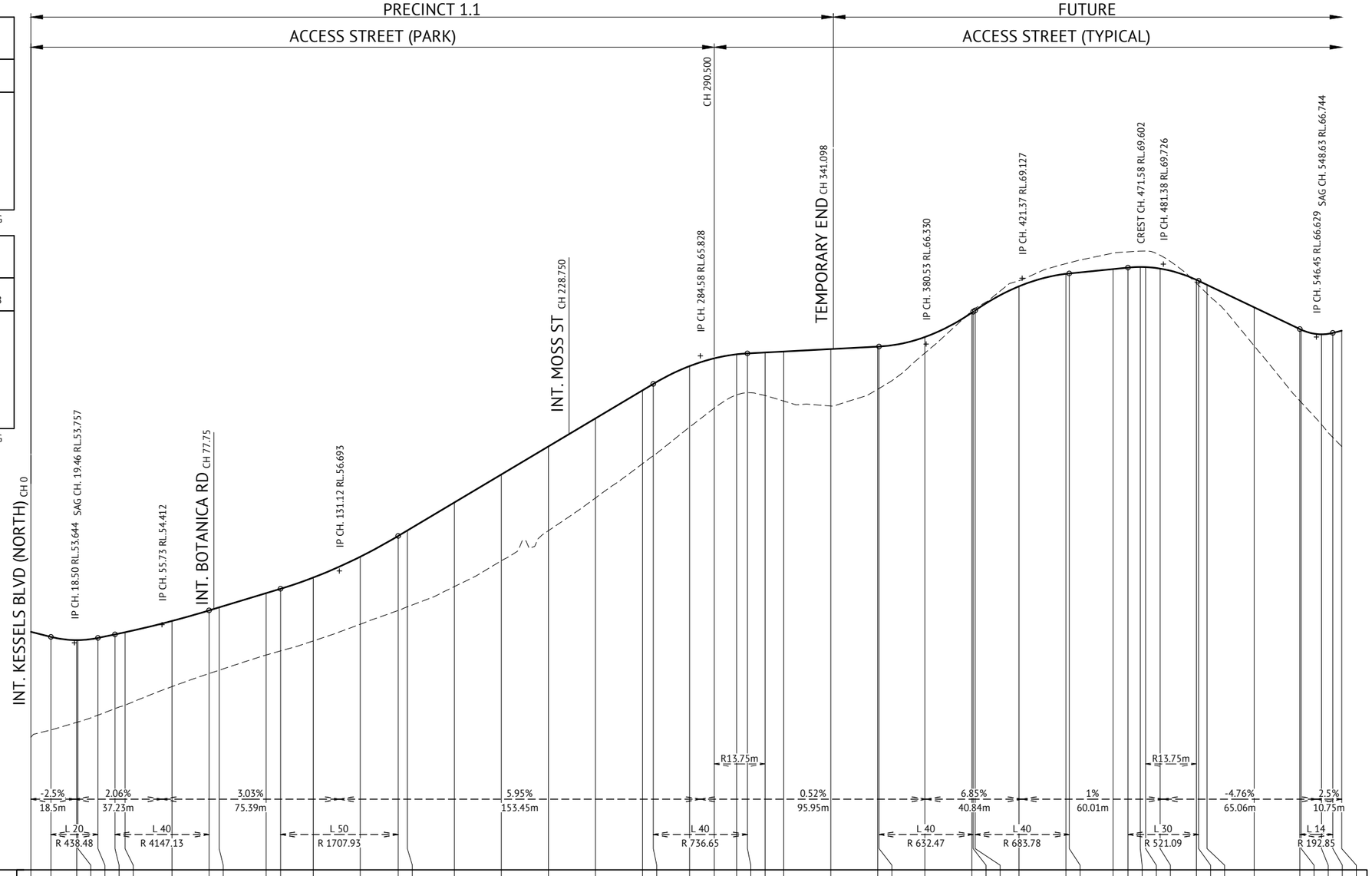
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C318	C

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	OLIVE AVENUE CH. 0.000 - CH. 290.500
CLASS	-	ACCESS STREET (PARK)
ESA's	-	5.9×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	OLIVE AVENUE CH. 290.500 - CH. 341.098
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.44.0

CHAINAGE	0.00	8.50	19.46	20.00	28.50	35.73	40.00	60.00	75.73	80.00	100.00	106.12	120.00	140.00	156.12	160.00	180.00	200.00	220.00	240.00	260.00	264.58	280.00	290.50	300.00	304.58	312.10	320.00	340.00	360.00	360.53	380.00	400.00	400.53	401.37	420.00	440.00	441.37	460.00	466.38	471.58	473.85	480.00	495.45	496.38	500.00	520.00	539.45	540.00	548.63	553.45	557.20
NATURAL SURFACE	49.634	49.941	50.264	50.280	50.570	50.845	50.995	51.782	52.335	52.478	53.126	53.298	53.721	54.430	55.015	55.170	56.029	57.128	58.405	59.796	61.253	61.587	62.803	63.610	64.177	64.268	64.145	63.910	63.698	64.413	64.444	65.945	67.737	67.785	67.850	69.019	69.745	69.780	70.191	70.246	70.274	70.278	70.104	68.906	68.817	68.469	66.254	63.917	63.857	62.912	62.563	61.980
DESIGN SURFACE	54.107	53.894	53.757	53.758	53.850	53.999	54.090	54.571	55.017	55.146	55.751	55.936	56.413	57.297	58.181	58.412	59.602	60.793	61.984	63.174	64.365	64.638	65.394	65.725	65.895	65.933	65.972	66.014	66.118	66.223	66.226	66.627	67.664	67.700	67.758	68.779	69.312	69.327	69.513	69.576	69.602	69.597	69.534	69.056	69.012	68.840	67.888	66.962	66.937	66.744	66.804	66.898
RHS LIP LEVEL	✳		53.695	53.696	53.788	53.957	54.028	54.509	✳		55.689	55.874	56.351	57.235	58.119	58.350	59.540	60.731	61.922	63.112	64.303	64.576	65.332	65.667	65.824	65.856	65.927	65.927	66.031	66.136	66.139	66.540	67.577	67.613	67.671	68.692	69.225	69.240	69.426	69.489	69.515	69.510	69.447	68.969	68.925	68.753	67.801	66.875	66.850				
LHS LIP LEVEL	✳		53.700	53.700	53.793	53.942	54.032	54.513	54.959	55.088	55.694	55.879	56.355	57.240	58.124	58.354	59.545	60.736	61.926	63.117	64.308	64.580	65.337	65.667	65.824	65.856	65.885	65.927	66.031	66.136	66.139	66.540	67.577	67.613	67.671	68.692	69.225	69.240	69.426	69.489	69.515	69.510	69.447	68.969	68.925	68.753	67.801	66.875	66.850				
CUT (-)/FILL DEPTH	4.473	3.954	3.493	3.478	3.280	3.154	3.095	2.788	2.681	2.668	2.625	2.639	2.691	2.867	3.166	3.242	3.573	3.665	3.578	3.379	3.113	3.050	2.591	2.115	1.718	1.665	1.827	2.103	2.421	1.810	1.781	0.682	-0.073	-0.086	-0.093	-0.239	-0.433	-0.454	-0.679	-0.670	-0.672	-0.681	-0.569	0.149	0.195	0.370	1.635	3.046	3.080	3.832	4.441	4.918

OLIVE AVENUE LONGITUDINAL SECTION

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH
REVISIONS			

Premise

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

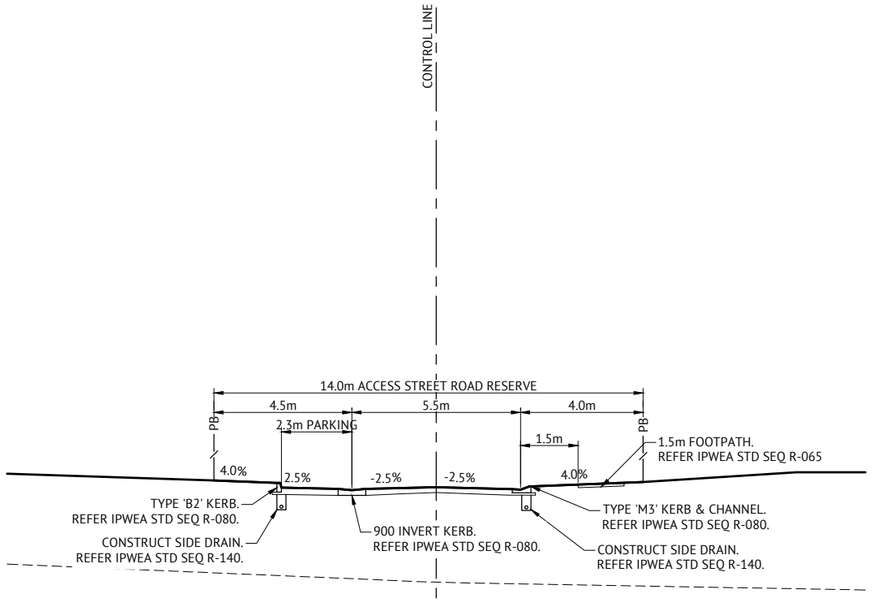
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 10/11/17

RPEQ KEITH HOWELLS RPEQ 7295 DATE 10/11/17

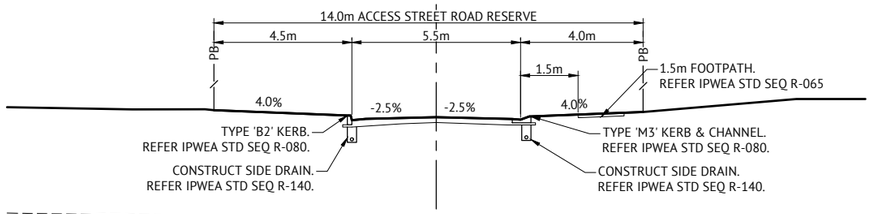
SCALE
SCALE 1:1000 (A1)
0 20 40 60m
SCALE 1:100 (A1)
0 2 4 6m

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE OLIVE AVENUE LONGITUDINAL SECTIONS

JOB CODE MIR001-01
SHEET NUMBER C319
REV B



CHAINAGE 40 DATUM R.L. 47.00



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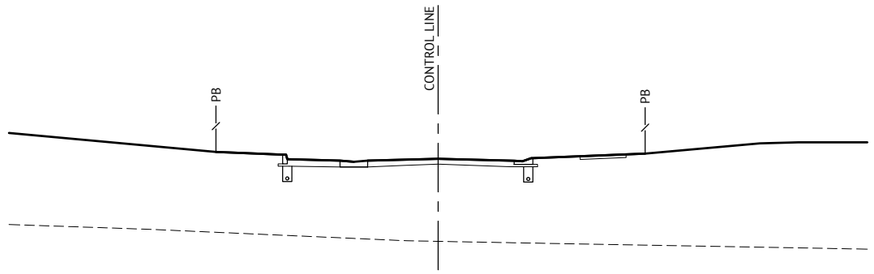
CHAINAGE 14.5 DATUM R.L. 47.00



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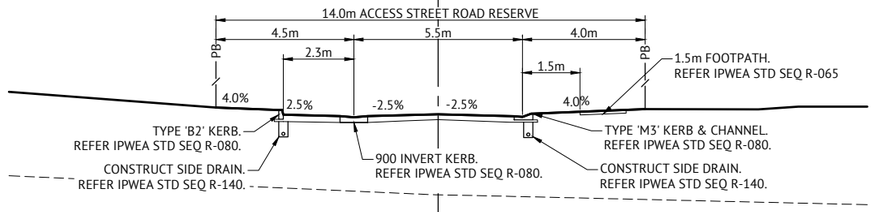

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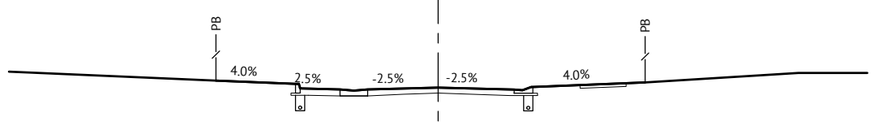
CHAINAGE 80 DATUM R.L. 49.00



CHAINAGE 60 DATUM R.L. 48.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

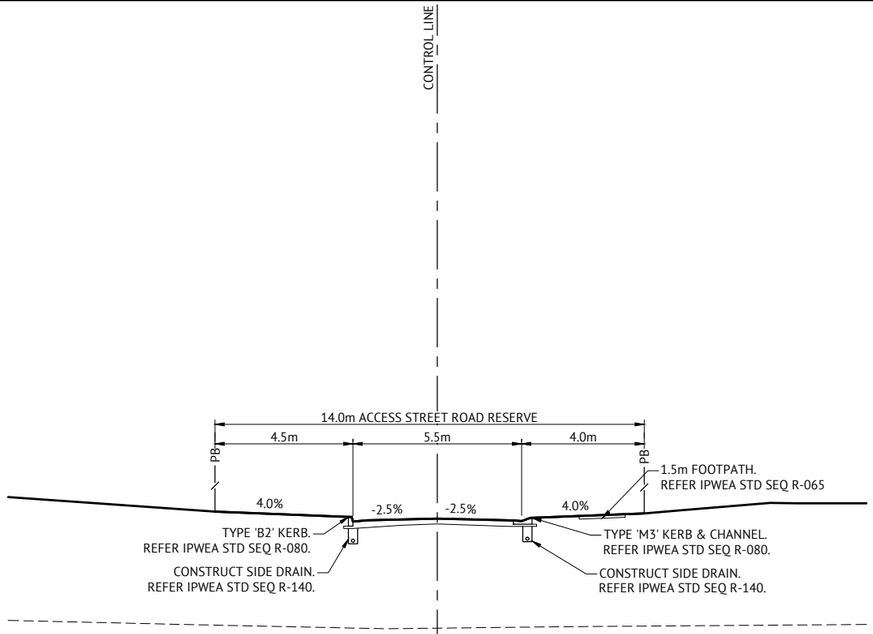
RPEQ K. Howells KEITH HOWELLS 10/11/17 RPEQ 7295

SCALE 0 2 4 6m

SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OLIVE AVENUE CROSS SECTIONS - SHEET 1 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C320	B



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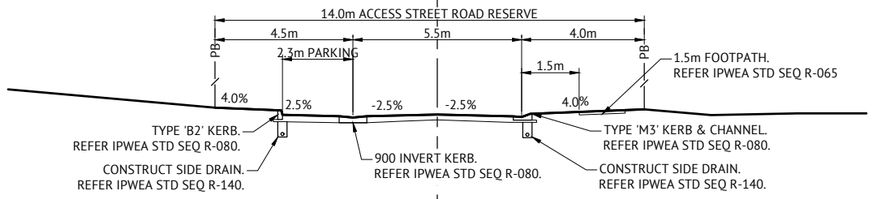

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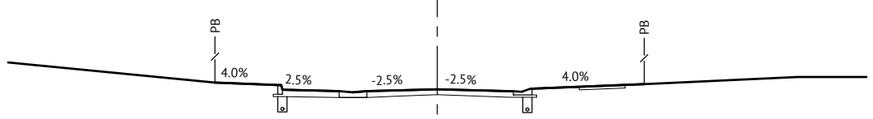

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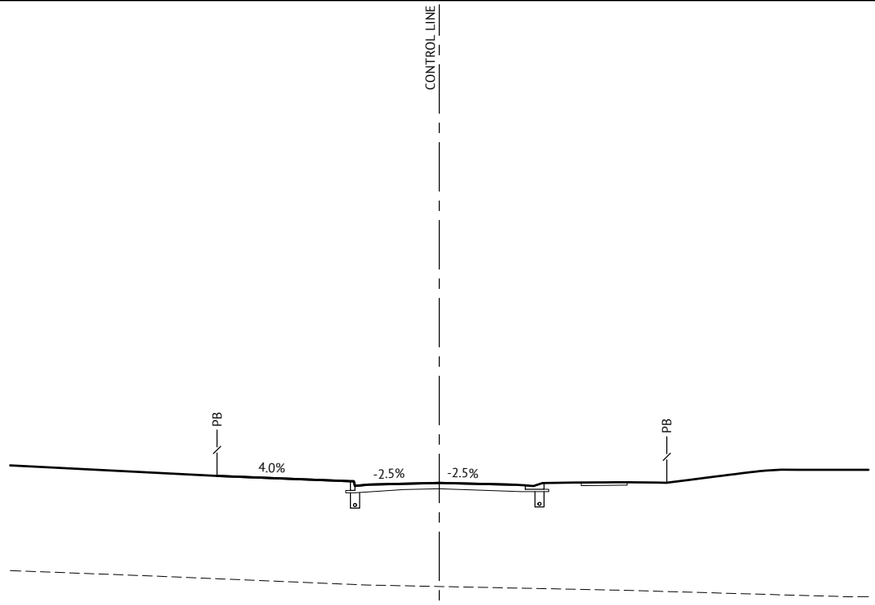

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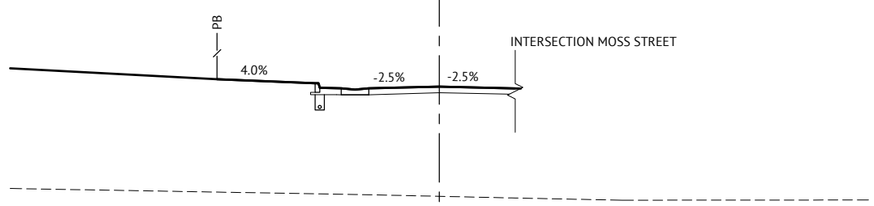

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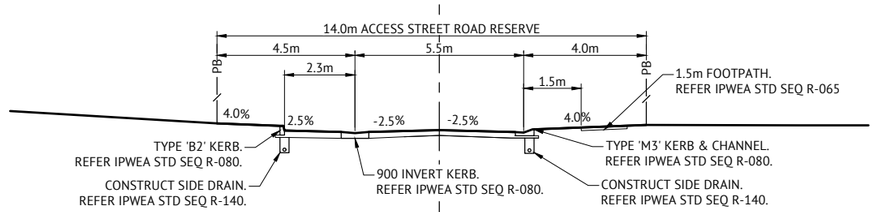

CHAINAGE 200 — DATUM R.L. 54.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

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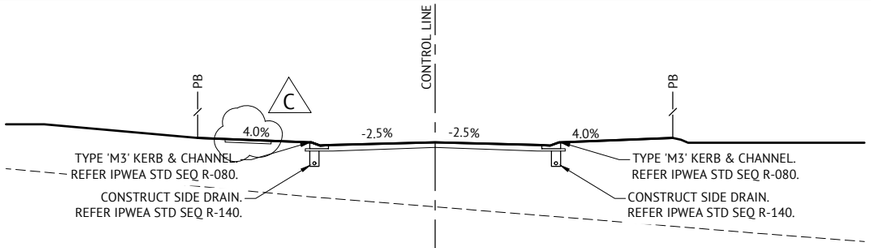
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ: KEITH HOWELLS RPEQ 7295 — DATE: 10/11/17

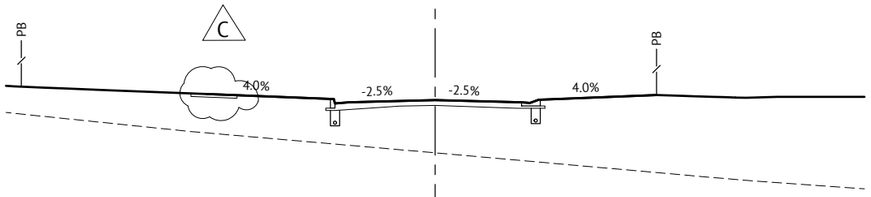
SCALE: 0 2 4 6m — SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OLIVE AVENUE CROSS SECTIONS - SHEET 2 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C321	B



CHAINAGE 320 DATUM R.L. 59.00



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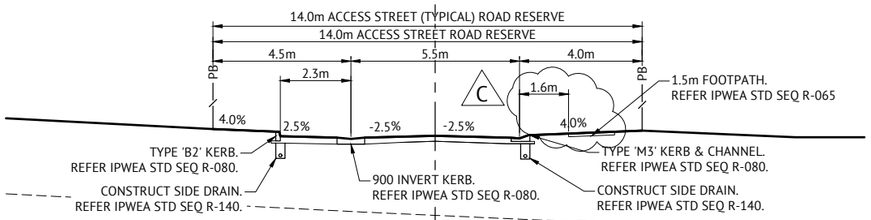

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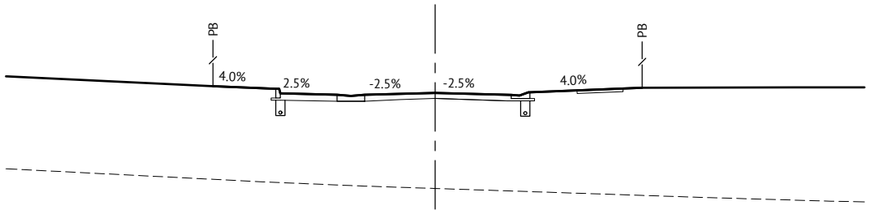

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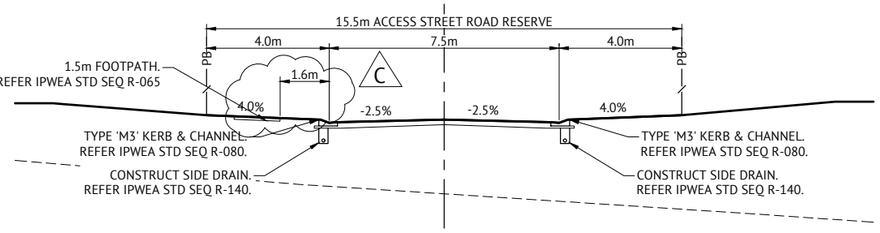

CHAINAGE 340 DATUM R.L. 59.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
26/02/18	C	CHANGES TO FOOTPATH ALIGNMENTS AND LOCATIONS	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	26/02/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	26/02/18

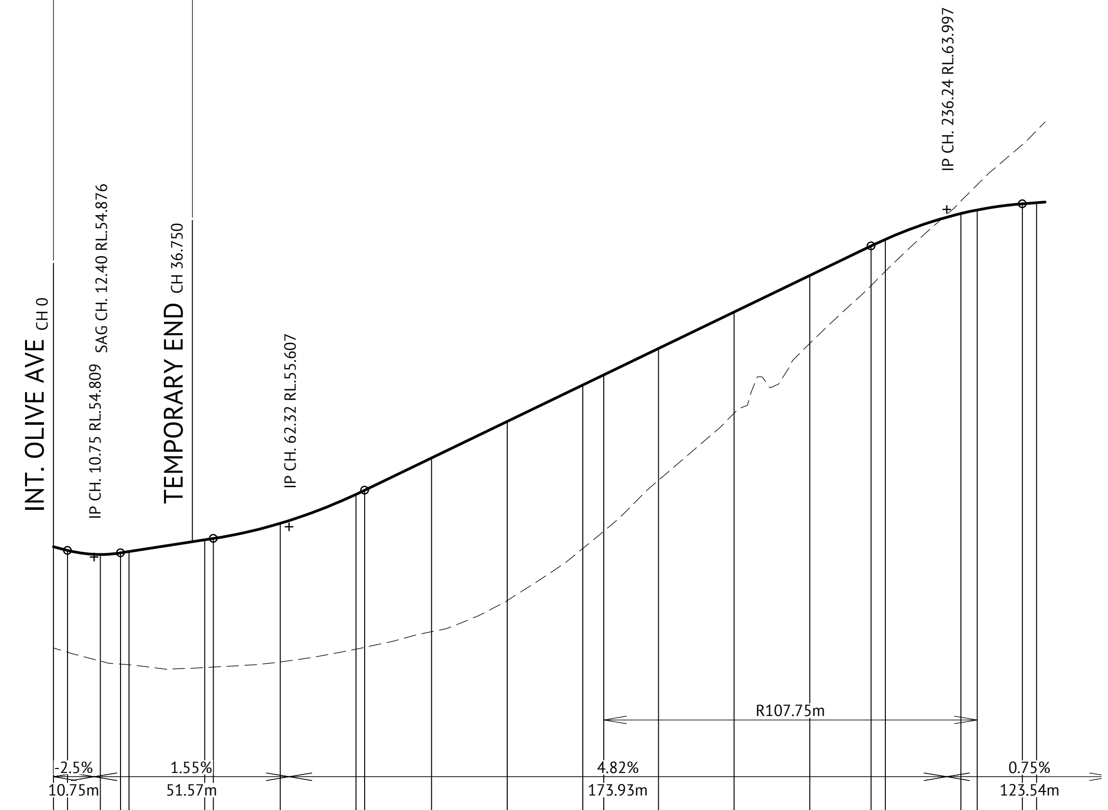
SCALE 0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OLIVE AVENUE CROSS SECTIONS - SHEET 3 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C322	C

PAVEMENT DESIGN (PRELIMINARY)		
ROADS	-	BOTANICA ROAD
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

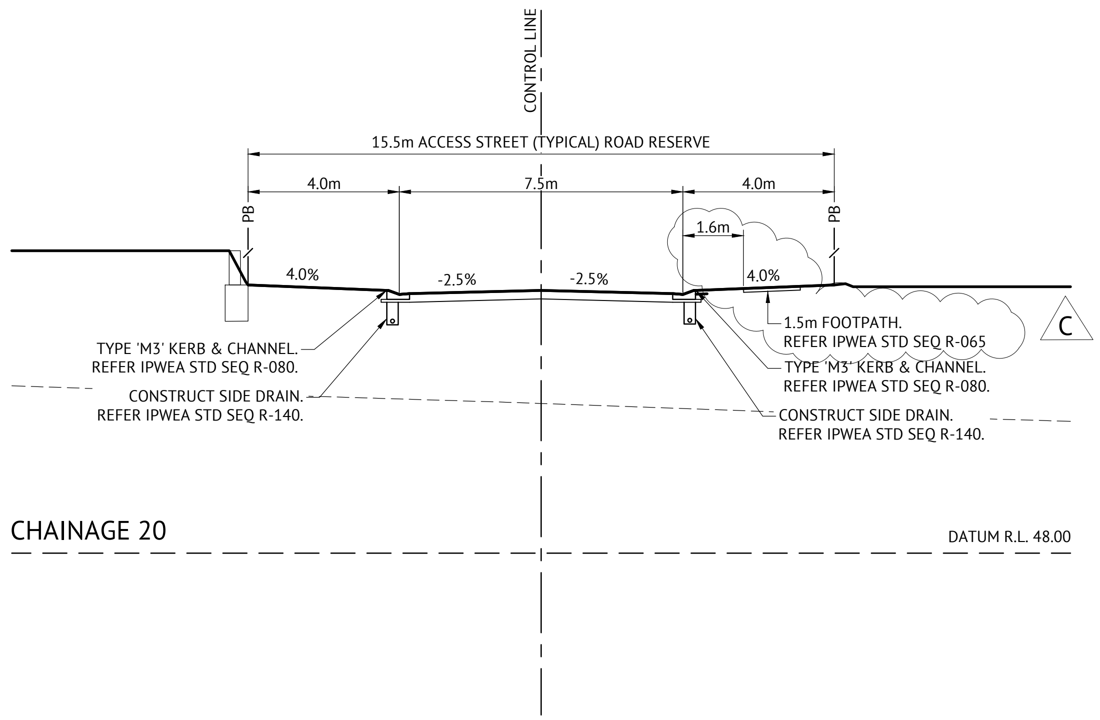
Vertical Geometry Grade (%)
Vertical Grade Length (m)

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

DATUM R.L.46.0

CUT (-)/FILL DEPTH	2.675	2.694	2.818	2.941	2.991	3.376	3.399	3.666	4.089	4.151	4.591	4.734	4.319	4.129	3.482	2.674	1.793	1.046	0.842	-0.331	-0.668	-1.565	-1.907
LHS LIP LEVEL		✳		54.830	54.865	55.175	55.211	55.612	56.375	56.485	57.338	58.303	59.268	59.535	60.232	61.197	62.162	62.945	63.119	63.804	63.898	64.060	64.088
RHS LIP LEVEL		✳		54.830	54.865	55.175	55.211	55.612	56.375	56.485	57.338	58.303	59.268	59.535	60.232	61.197	62.162	62.945	63.119	63.804	63.898	64.060	64.088
DESIGN SURFACE	55.078	54.984	54.876	54.917	54.952	55.262	55.298	55.699	56.462	56.572	57.425	58.390	59.355	59.622	60.319	61.284	62.249	63.032	63.206	63.891	63.985	64.147	64.175
NATURAL SURFACE	52.403	52.290	52.058	51.977	51.961	51.886	51.899	52.034	52.373	52.421	52.834	53.656	55.035	55.494	56.838	58.610	60.456	61.987	62.364	64.221	64.653	65.712	66.082
CHAINAGE	0.00	3.75	12.40	17.75	20.00	40.00	42.32	60.00	80.00	82.32	100.00	120.00	140.00	145.55	160.00	180.00	200.00	216.24	220.00	240.00	244.30	256.24	260.00

BOTANICA ROAD LONGITUDINAL SECTION



CHAINAGE 20

DATUM R.L. 48.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
26/02/18	C	ADDED FOOTPATH TO CROSS SECTION	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise
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DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 26/02/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 26/02/18

SCALE
SCALE 1:1000 (A1) 0 20 40 60m
SCALE 1:100 (A1) 0 2 4 6m

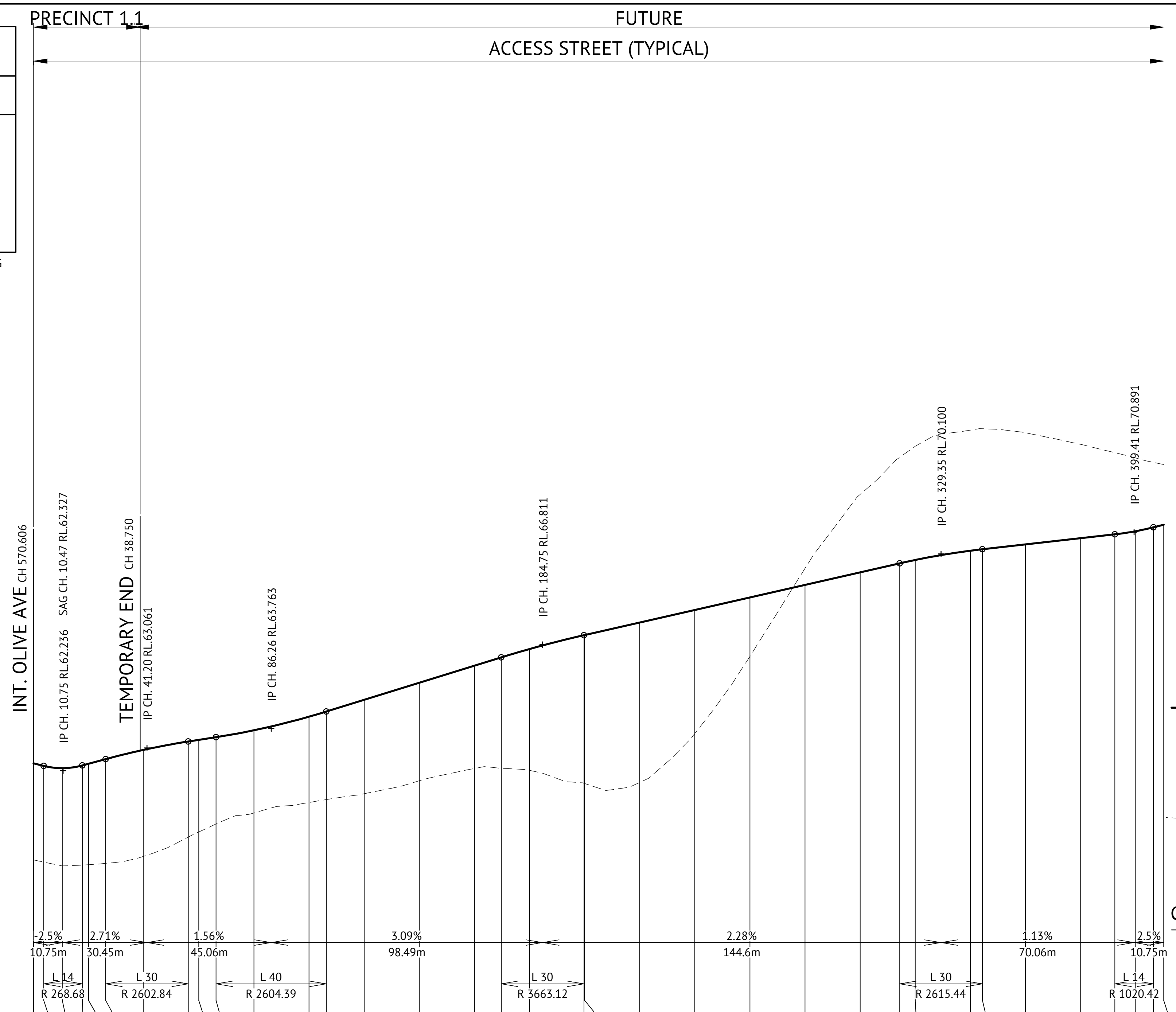
CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE BOTANICA ROAD LONGITUDINAL & CROSS SECTIONS

JOB CODE MIR001-01
SHEET NUMBER C323
REV C

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	MOSS STREET
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

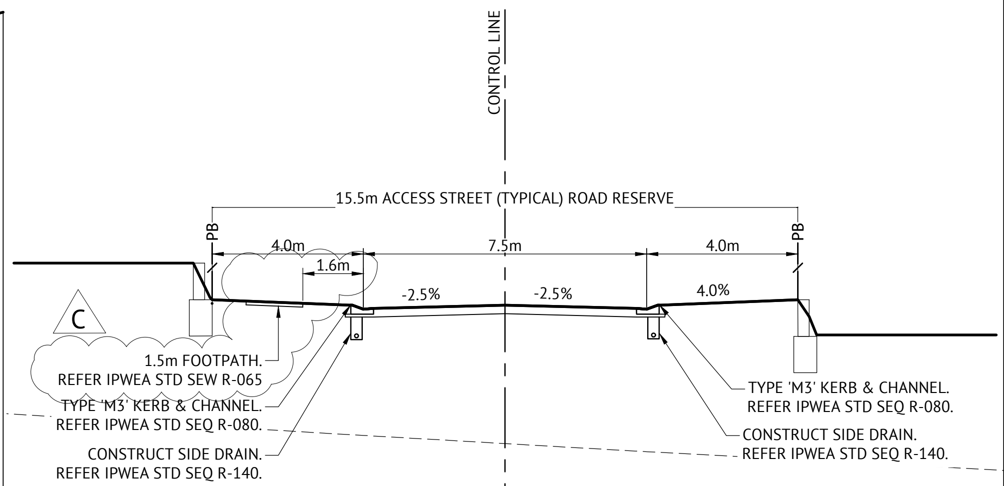
DATUM R.L.53.0

CHAINAGE	0.00	3.75	10.47	17.75	20.00	26.20	40.00	56.20	60.00	66.26	80.00	100.00
CUT (-)/FILL DEPTH	3.508	3.491	3.543	3.614	3.662	3.781	3.862	3.467	3.341	3.148	3.000	3.114
LHS LIP LEVEL	✳			62.339	62.400	62.568	62.905	63.208	63.267	63.365	63.615	64.109
RHS LIP LEVEL	✳			62.339	62.400	62.568	62.905	63.208	63.267	63.365	63.615	64.109
DESIGN SURFACE	62.505	62.411	62.327	62.426	62.487	62.655	62.992	63.295	63.354	63.452	63.702	64.196
NATURAL SURFACE	58.997	58.920	58.783	58.812	58.824	58.873	59.131	59.828	60.013	60.303	60.702	61.083

CHAINAGE	106.26	120.00	140.00	160.00	169.75	180.00	199.75	200.00	220.00	240.00	260.00	280.00
CUT (-)/FILL DEPTH	3.194	3.409	3.555	3.730	4.023	4.403	5.373	5.387	5.802	4.481	2.138	-0.599
LHS LIP LEVEL	64.295	64.720	65.339	65.958	66.260	66.562	67.065	67.071	67.526	67.981	68.436	68.891
RHS LIP LEVEL	64.295	64.720	65.339	65.958	66.260	66.562	67.065	67.071	67.526	67.981	68.436	68.891
DESIGN SURFACE	64.382	64.807	65.426	66.045	66.347	66.649	67.152	67.158	67.613	68.068	68.523	68.978
NATURAL SURFACE	61.188	61.398	61.871	62.315	62.324	62.247	61.779	61.771	61.811	63.587	66.385	69.577

CHAINAGE	300.00	314.35	320.00	340.00	344.35	360.00	380.00	392.41	400.00	406.41	410.16
CUT (-)/FILL DEPTH	-2.827	-3.848	-4.128	-4.378	-4.375	-4.048	-3.406	-2.963	-2.654	-2.357	-2.185
LHS LIP LEVEL	69.346	69.672	69.795	70.130	70.183	70.359	70.585	70.725			
RHS LIP LEVEL	69.346	69.672	69.795	70.130	70.183	70.359	70.585	70.725			
DESIGN SURFACE	69.433	69.759	69.882	70.217	70.270	70.446	70.672	70.812	70.926	71.066	71.160
NATURAL SURFACE	72.260	73.607	74.009	74.595	74.645	74.494	74.077	73.775	73.580	73.423	73.344

MOSS STREET LONGITUDINAL SECTION



CHAINAGE 20

DATUM R.L. 48.00

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
26/02/18	C	ADDED FOOTPATH TO CROSS SECTION	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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PROJECT DIRECTOR JOSHUA STONE DATE 26/02/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 26/02/18

SCALE
SCALE 1:1000 (A1) 0 20 40 60m
SCALE 1:100 (A1) 0 2 4 6m

CLIENT **MIRVAC**
PROJECT **EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **MOSS STREET LONGITUDINAL & CROSS SECTIONS**

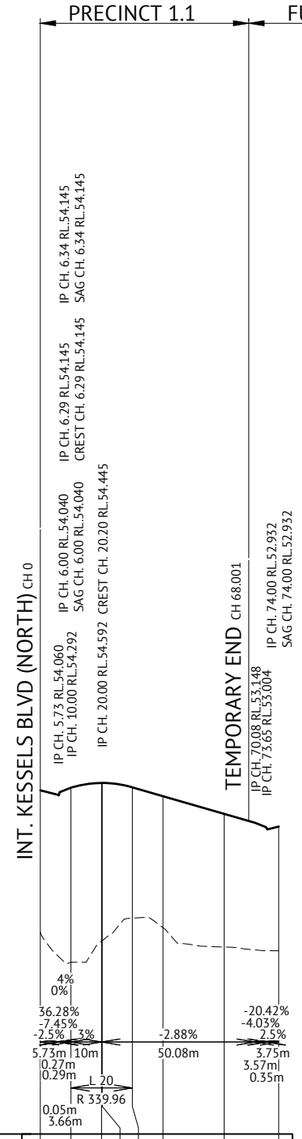
JOB CODE MIR001-01
SHEET NUMBER C324
REV C

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	LANE 1
CLASS	-	
ESA's	-	
SURFACE	-	150mm RC + SL82
CBR 80	-	NIL
CBR 45	-	100mm
CBR 15	-	NIL
TOTAL BOX	-	250mm

ASSUMED CBR 5 SUBGRADE
PRIOR TO TESTING

✳ REFER TO INTERSECTION DETAILS PLANS



Horiz Curve Data

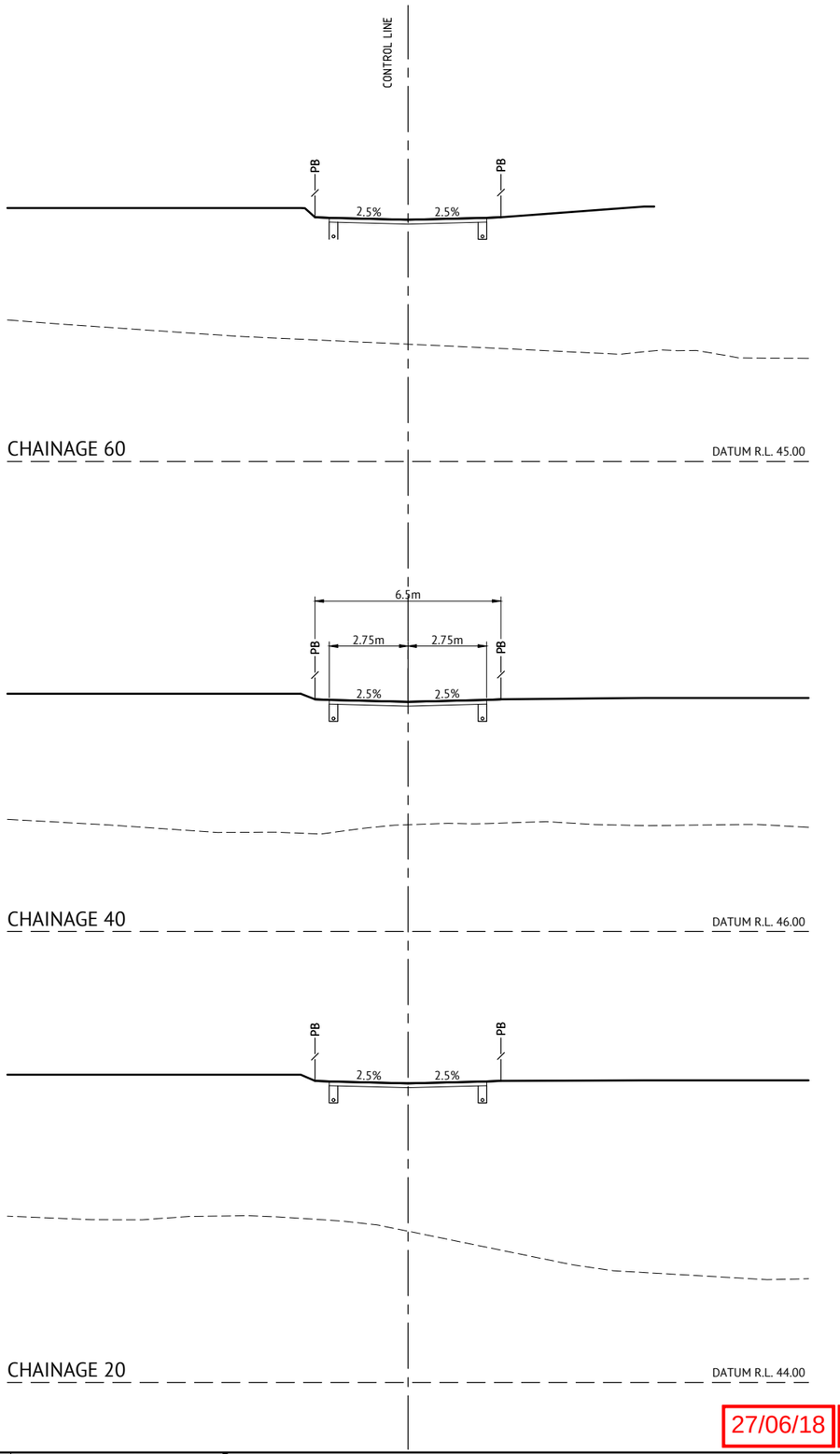
Vertical Geometry Grade (%)
Vertical Grade Length (m)

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

DATUM R.L.43.0

CUT (-)/FILL DEPTH	4.620	5.694	5.160	5.144	4.264	4.288	4.343	4.051
LHS LIP LEVEL	✳		54.513	54.514	54.372	54.084	53.507	
RHS LIP LEVEL	✳		54.513	54.514	54.372	54.084	53.507	
DESIGN SURFACE	54.204	54.292	54.445	54.445	54.303	54.015	53.439	53.025
NATURAL SURFACE	49.584	48.598	49.284	49.300	50.040	49.728	49.096	48.974
CHAINAGE	0.00	10.00	20.00	20.20	30.00	40.00	60.00	77.75

DRIVEWAY 04 LONGITUDINAL SECTION



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	REVISIONS
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

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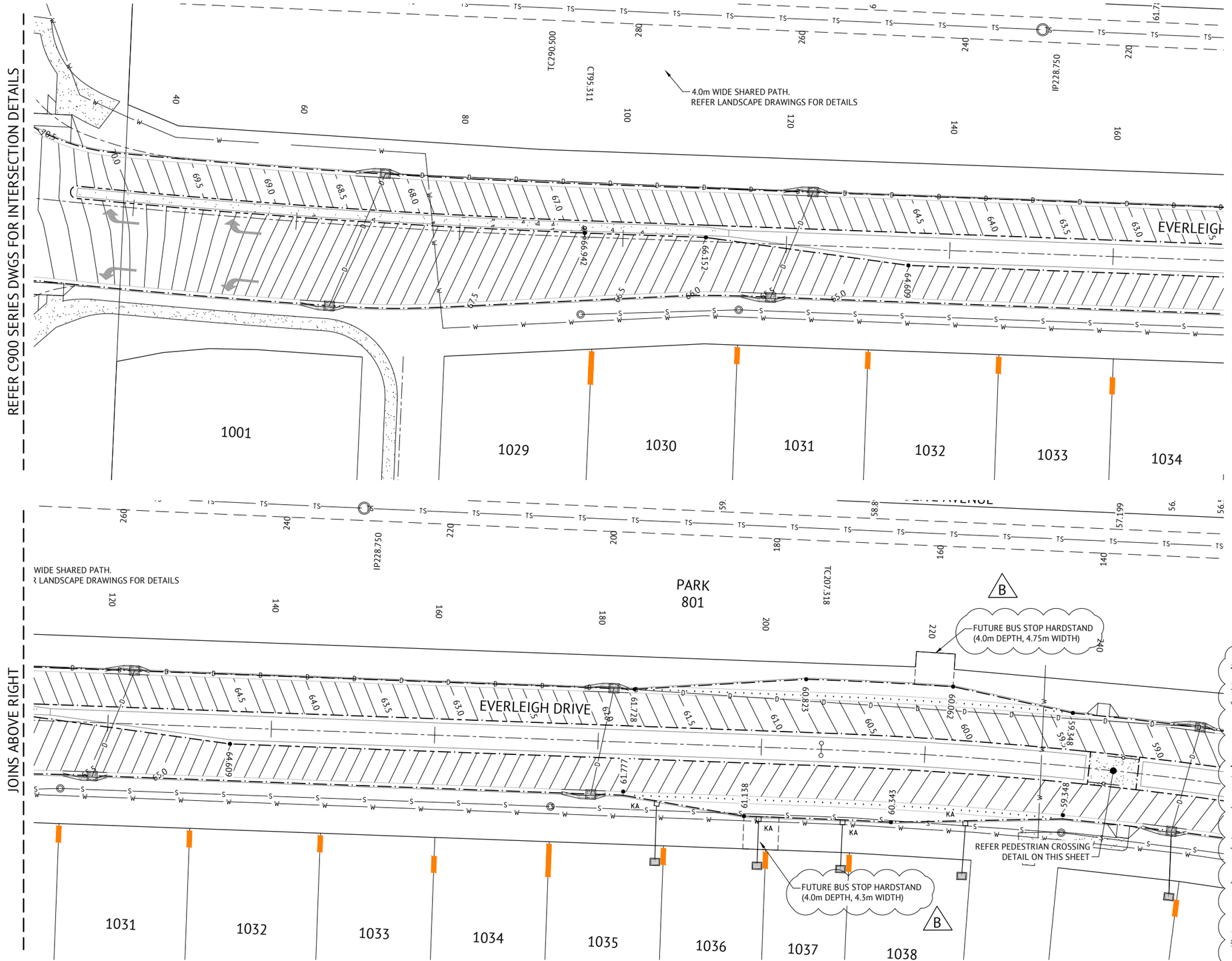
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 10/11/17

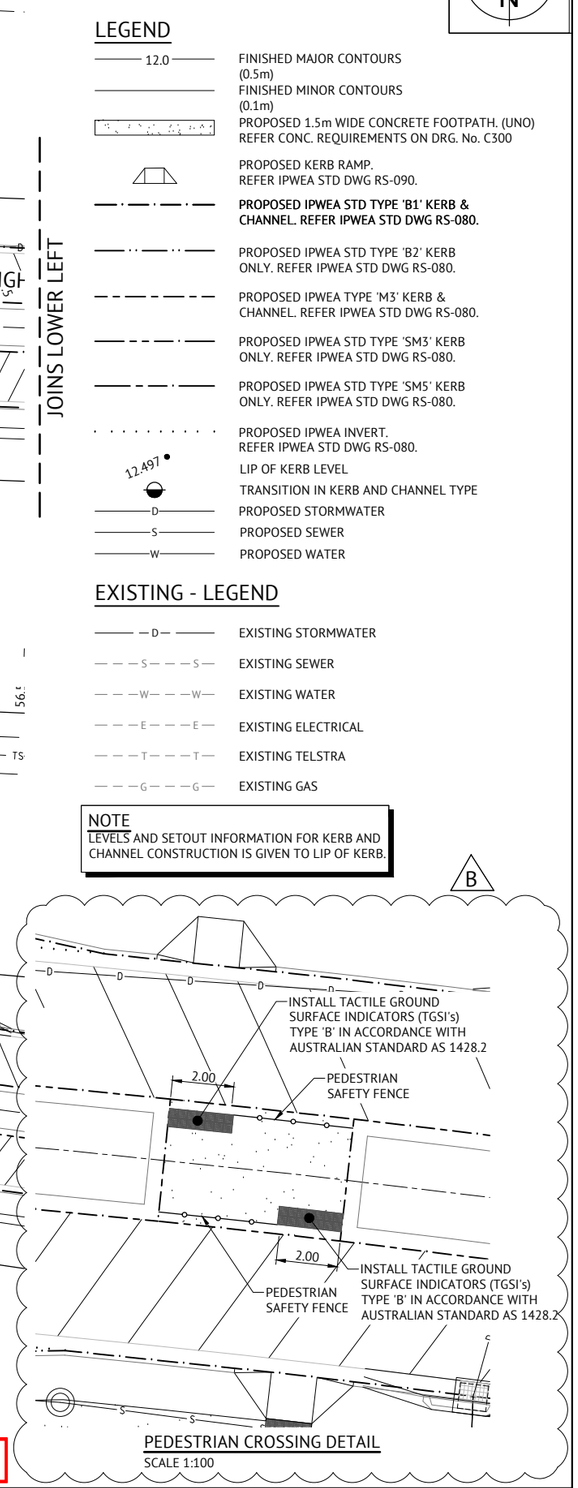
SCALE
SCALE 1:1000 (A1)
0 20 40 60m
0 2 4 6m
SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	DRIVE WAY 04 LONGITUDINAL & CROSS SECTIONS

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C325	B



BUS STOP LOCATION DETAILS
SCALE 1:250



PEDESTRIAN CROSSING DETAIL
SCALE 1:100

N

LEGEND

- 12.0 — FINISHED MAJOR CONTOURS (0.5m)
- FINISHED MINOR CONTOURS (0.1m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- **PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.**
- PROPOSED IPWEA STD TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'SM3' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'SM5' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA INVERT. REFER IPWEA STD DWG RS-080.
- 12.497 — LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- D — PROPOSED STORMWATER
- S — PROPOSED SEWER
- W — PROPOSED WATER

EXISTING - LEGEND

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

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
13/04/18	C	AMENDED RETAINING WALL LOCATIONS	KH
10/11/17	B	BUS STOP HARDSTAND REMOVED, PEDESTRIAN CROSSING DETAIL ADDED.	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	RPEQ	DATE 13/04/18
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	0 5 10 15m
PROJECT DIRECTOR	JOSHUA STONE	DATE 13/04/18	SCALE 1:250 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	INTERSECTION DETAILS PLAN - SHEET 1 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C326	C

JOINS MID-LOWER RIGHT

JOINS BELOW RIGHT

JOINS ABOVE LEFT

JOINS MID-UPPER LEFT

INTERSECTION OLIVE AVENUE & BOTANICA ROAD

INTERSECTION OLIVE AVENUE & MOSS STREET

ROUNDABOUT INTERSECTION EVERLEIGH DRIVE & KESSELS BOULEVARD

LEGEND

- 12.0 — FINISHED MAJOR CONTOURS (0.5m)
- FINISHED MINOR CONTOURS (0.1m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-050.
- **PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.**
- PROPOSED IPWEA STD TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
- PROPOSED IPWEA STD TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
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- W — PROPOSED WATER
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- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICAL
- T — EXISTING TELSTRA
- G — EXISTING GAS

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

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
13/04/18	C	AMENDED RETAINING WALL LOCATIONS, ROUNDABOUT SPOT LEVEL AND KERB ALIGNMENT	KH
10/11/17	B	BUS STOP HARDSTAND REMOVED, PEDESTRIAN CROSSING DETAIL ADDED.	KH
10/11/17	A	ORIGINAL ISSUE	KH

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 13/04/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE 13/04/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	INTERSECTION DETAILS PLAN - SHEET 2 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C327	C

LEGEND

- 12.0 — FINISHED MAJOR CONTOURS (0.5m)
- FINISHED MINOR CONTOURS (0.1m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-050.
- **PROPOSED IPWEA STD TYPE 'B1' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.**
- PROPOSED IPWEA STD TYPE 'B2' KERB ONLY. REFER IPWEA STD DWG RS-080.
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- 12.497 LIP OF KERB LEVEL
- TRANSITION IN KERB AND CHANNEL TYPE
- D — PROPOSED STORMWATER
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- W — PROPOSED WATER

EVERLEIGH DRIVE

KESSELS BOULEVARD

INTERSECTION KESSELS BOULEVARD & FOREST ROAD

INTERSECTION FOREST ROAD & VINE WAY

INTERSECTION GROVE STREET & FOREST ROAD

INTERSECTION VINE WAY & GROVE STREET

INTERSECTION EMERALD PARADE & FOREST ROAD

27/06/18 CONSTRUCTION ISSUE

EXISTING - LEGEND

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

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

DATE	REV	DESCRIPTION	RPEQ
13/04/18	C	AMENDED RETAINING WALL LOCATIONS	KH
10/11/17	B	BUS STOP HARDSTAND REMOVED, PEDESTRIAN CROSSING DETAIL ADDED.	KH
10/11/17	A	ORIGINAL ISSUE	KH

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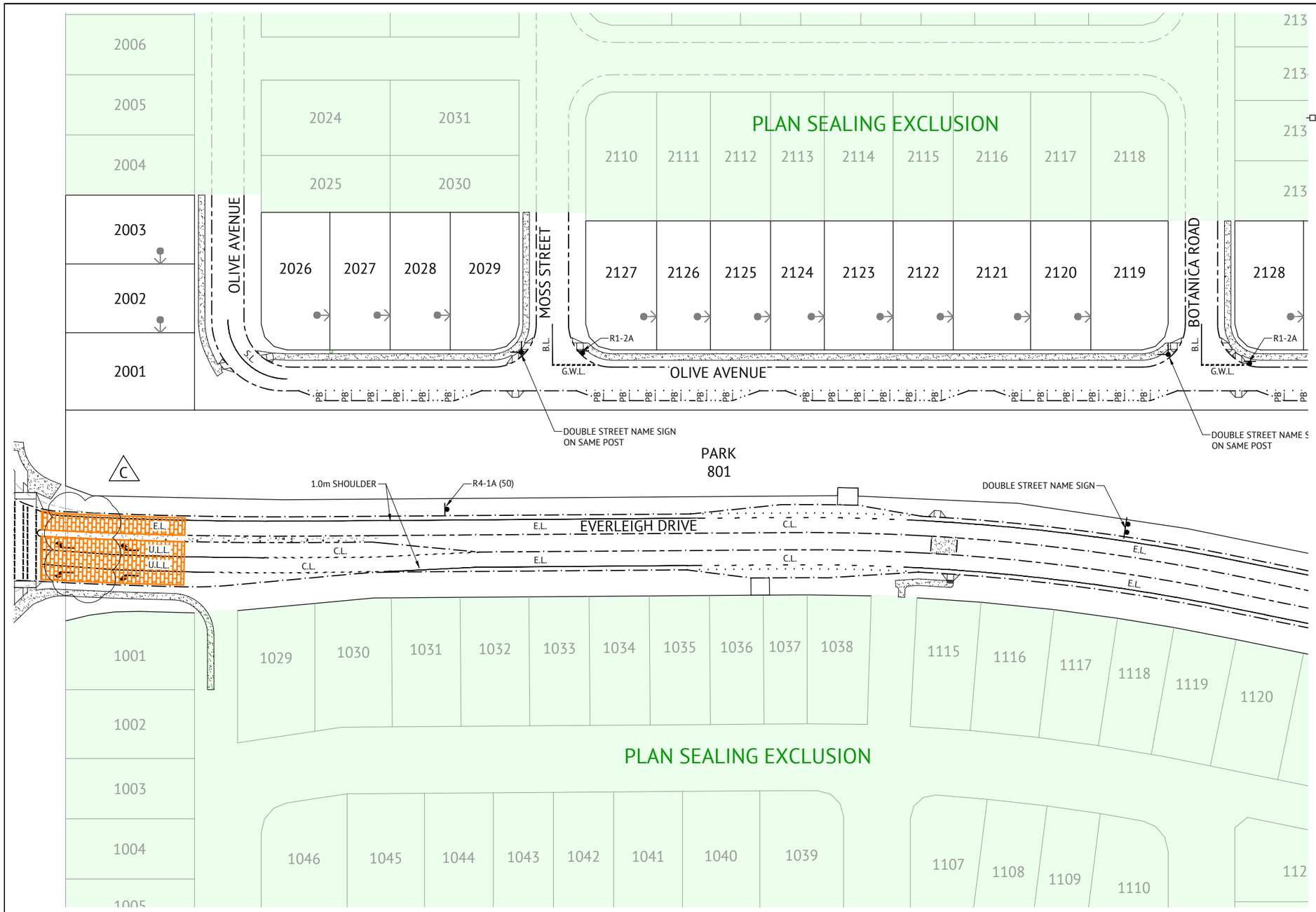
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	0 5 10 15m
PROJECT DIRECTOR	JOSHUA STONE	DATE 13/04/18	SCALE 1:250 (A1)

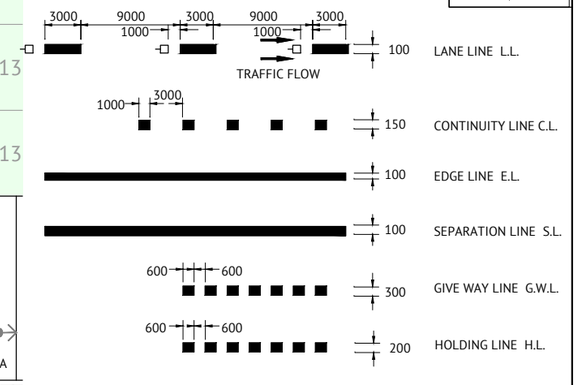
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	INTERSECTION DETAILS PLAN - SHEET 3 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C328	C



TYPICAL LINEMARKING LEGEND

N.T.S.



LINEMARKING NOTES

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

SIGNAGE NOTES

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

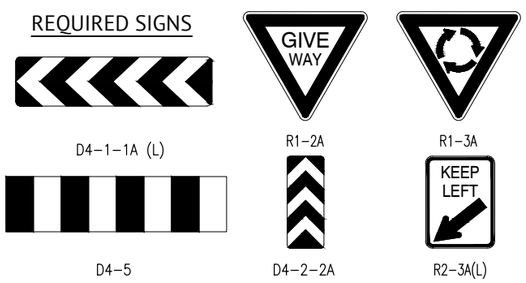
LEGEND

STAMPED AC THRESHOLD TREATMENT.

CONCRETE DRIVEWAY

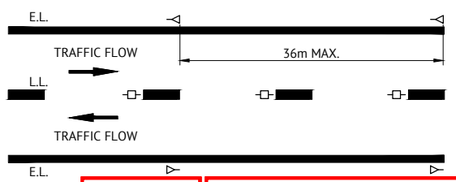
TACTILE GROUND SURFACE INDICATORS (TGSI's) TO BE INSTALLED AT ALL KERB RAMPS ON MAJOR ROADS IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.1 (2009)

REQUIRED SIGNS



TYPICAL TWO LANE TWO-WAY ROAD

N.T.S.



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
18/12/17	C	ENTRANCE THRESHOLD ADDED	KH
10/11/17	B	TACTILE FOOTPATH MARKERS ADDED	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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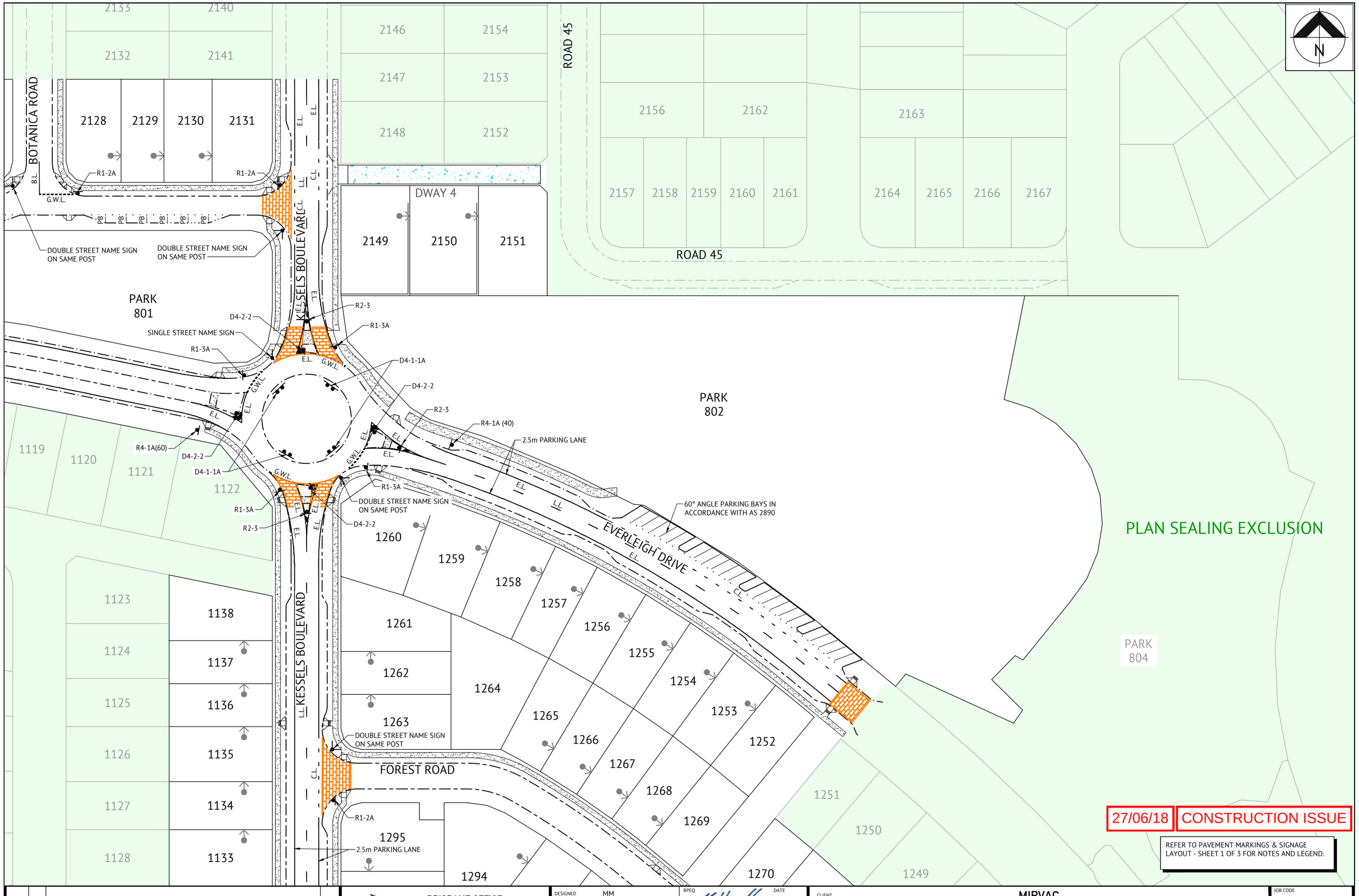
WEB: www.premise.com.au

DESIGNED	MM	RPEQ	DATE
CHECKED	JS	K. Howells KEITH HOWELLS	18/12/17 RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE	0 10 20 30m	
JOSHUA STONE	18/12/17	SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS & SIGNAGE LAYOUT - SHEET 1 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C329	C



27/06/18 CONSTRUCTION ISSUE

REFER TO PAVEMENT MARKINGS & SIGNAGE LAYOUT - SHEET 1 OF 3 FOR NOTES AND LEGEND.

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	TACTILE FOOTPATH MARKERS ADDED	KH
10/11/17	A	ORIGINAL ISSUE	KH

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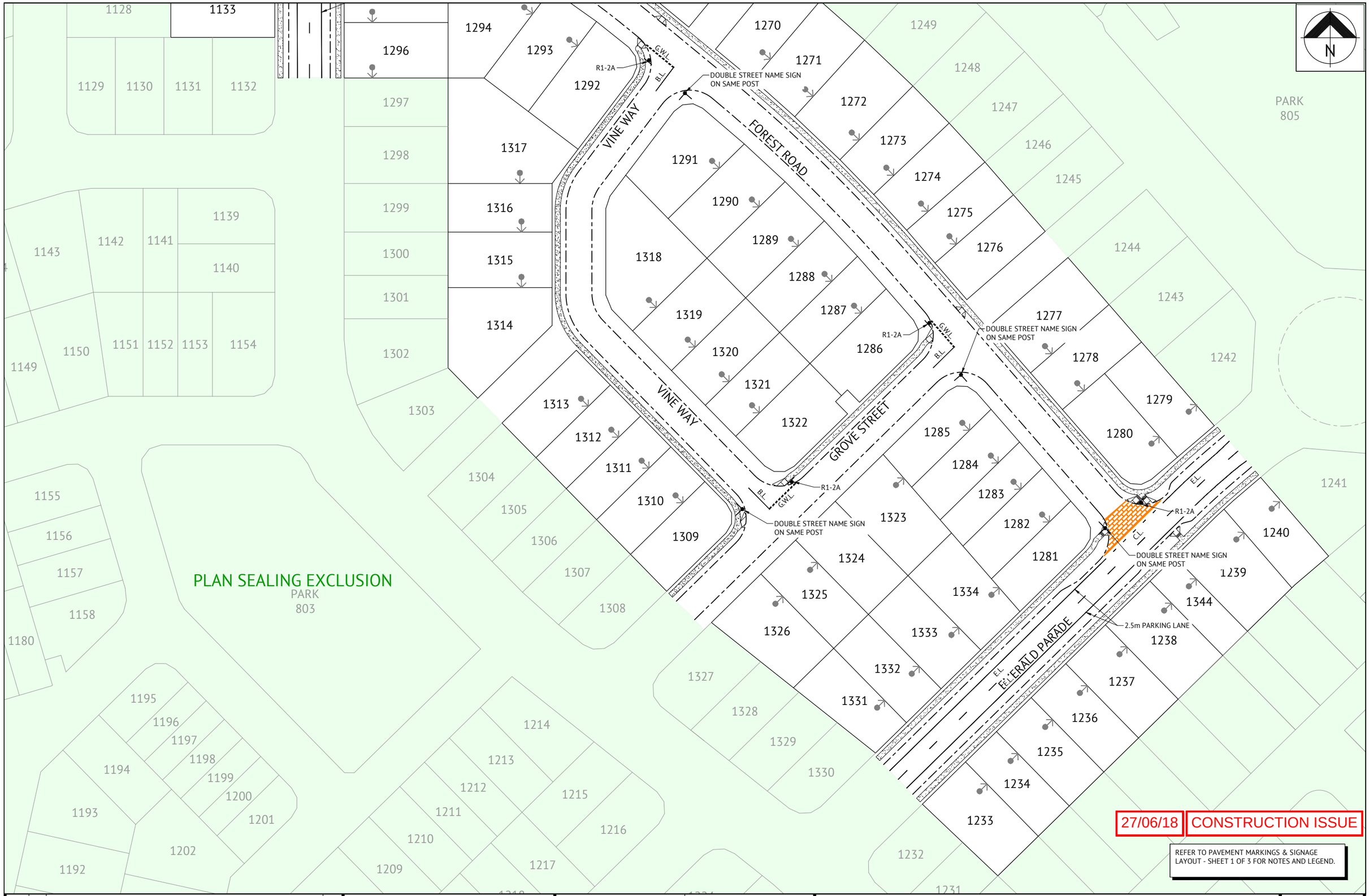
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/11/17

RPEQ: K. Howells, KEITH HOWELLS, RPEQ 7295 — DATE 10/11/17

SCALE: 0 10 20 30m — SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS & SIGNAGE LAYOUT - SHEET 2 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C330	B



27/06/18 CONSTRUCTION ISSUE

REFER TO PAVEMENT MARKINGS & SIGNAGE LAYOUT - SHEET 1 OF 3 FOR NOTES AND LEGEND.

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	TACTILE FOOTPATH MARKERS ADDED	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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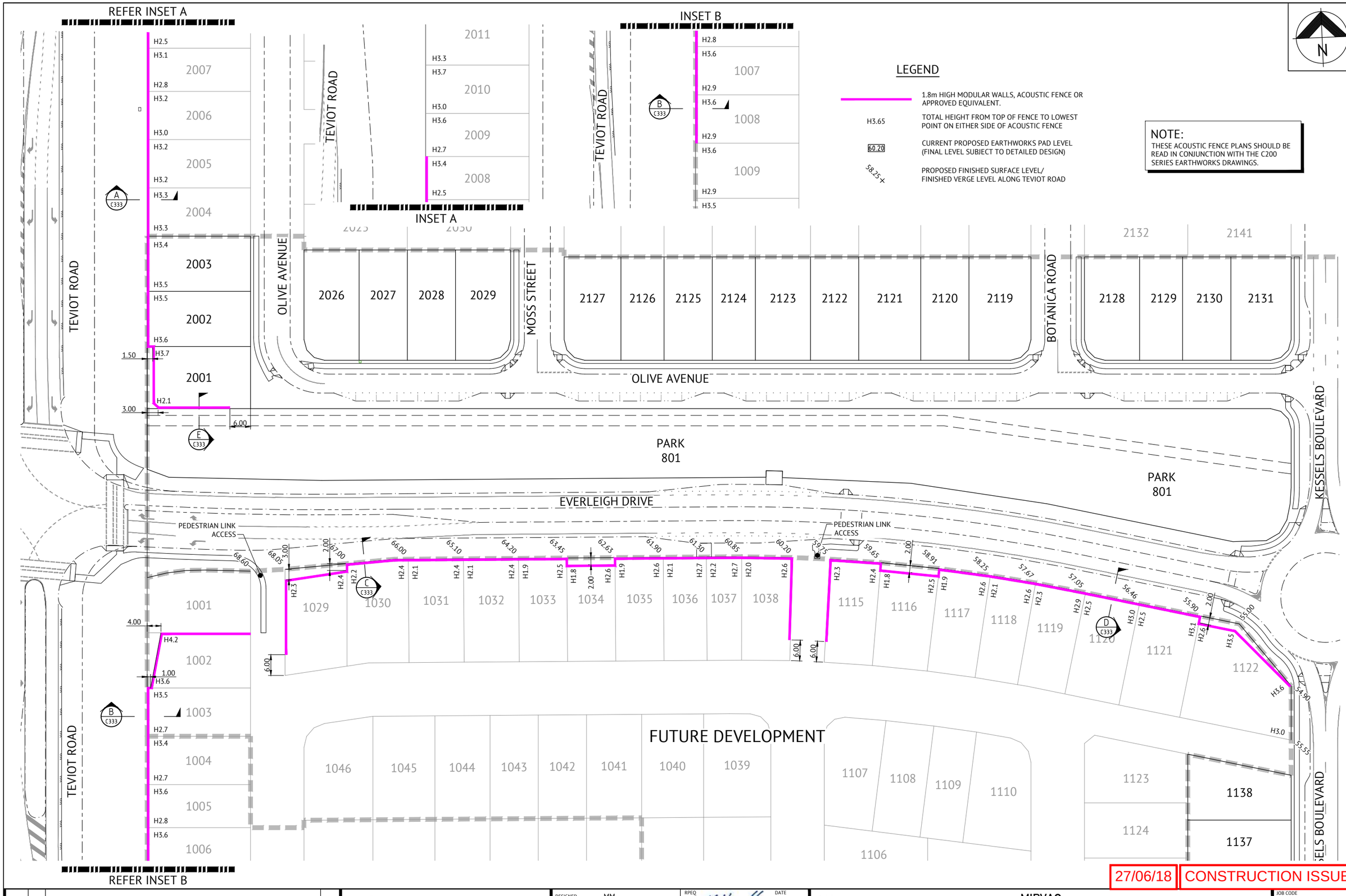
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS	10/11/17
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 10/11/17	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS & SIGNAGE LAYOUT - SHEET 3 OF 3

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C331	B



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
13/04/18	B	AMENDED ACOUSTIC FENCE TO SUIT RETAINING WALL LOCATION CHANGES	KH
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

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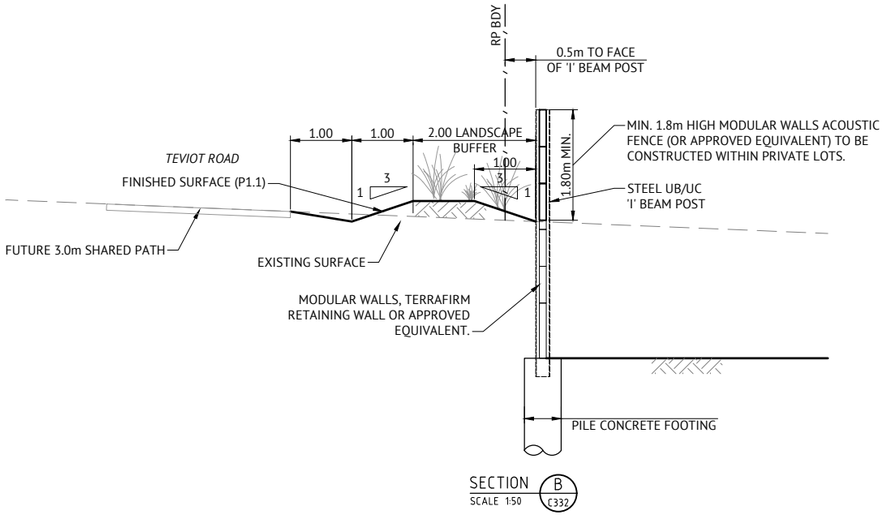
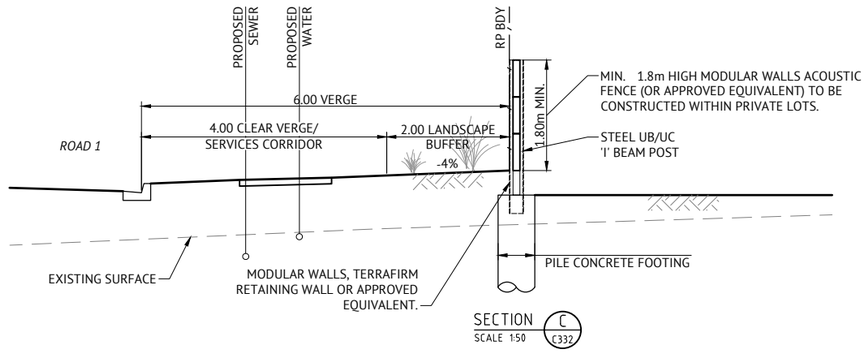
CHECKED	JS		13/04/18
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	13/04/18	0 10 20 30m	SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ACOUSTIC FENCE LAYOUT PLAN

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C332	B



SECTION B
SCALE 1:50 C332



SECTION C
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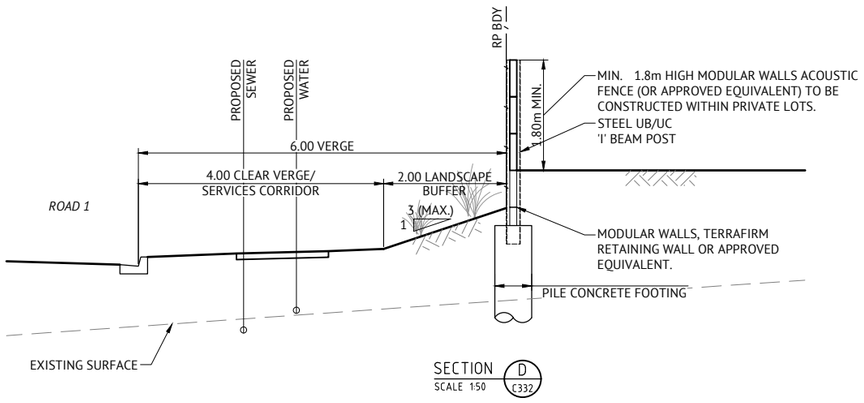
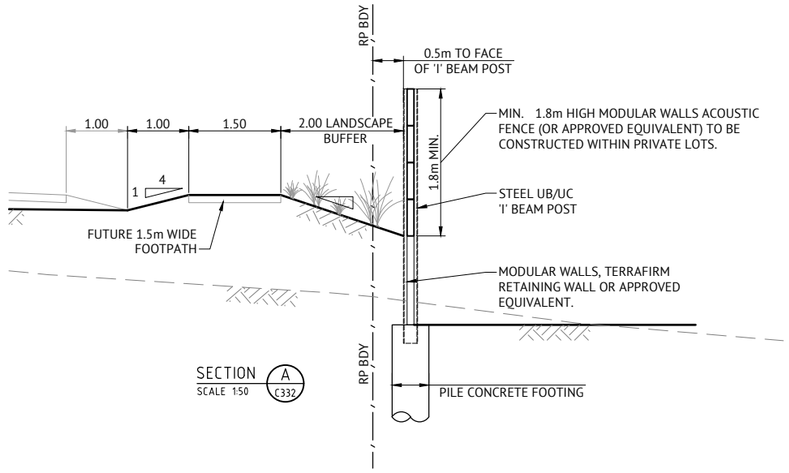


SECTION D
SCALE 1:50 C332



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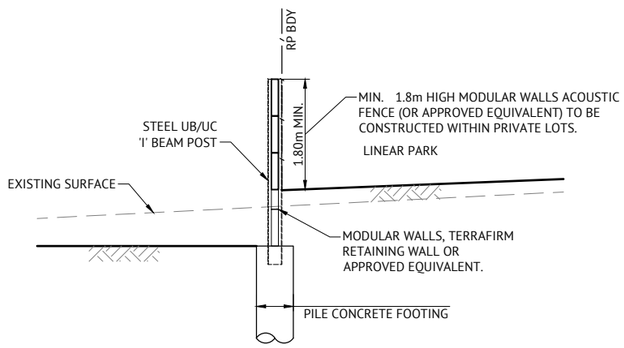
SCALE 1:50 C332



SECTION E
SCALE 1:50 C332

THESE DRAWINGS HAVE BEEN PREPARED IN ACCORDANCE WITH THE ATP CONSULTING ENGINEERS NOISE IMPACT ASSESSMENT, DOCUMENT NO. ATP 150814-R-NIA-03, DATED 24 MAY 2017, AND SUBSEQUENT AMENDMENTS DETAILED IN THE ATP CONSULTING ENGINEERS TECHNICAL MEMORANDUM, DOCUMENT NO. ATP170617-TM-01, DATED 18 AUGUST 2017.

THE PROPOSED ACOUSTIC FENCE SHALL BE CONSTRUCTED AS FOLLOWS:

- THE ACOUSTIC FENCE SHOULD BE CONSTRUCTED TO COMPLY WITH TMR's ROAD TRAFFIC NOISE MANAGEMENT: CODE OF PRACTICE.
- MATERIAL WITH MINIMUM SURFACE DENSITY OF 15kg/m2, E.G. TIMBER PALINGS WITH MINIMUM THICKNESS 20mm; FIBRE-CEMENT SHEETING WITH MINIMUM THICKNESS OF 12mm; MASONRY; AND AERATED CONCRETE.
- THE NOISE BARRIER SHOULD BE FREE OF ANY GAPS. IF THE NOISE BARRIER IS CONSTRUCTED OF TIMBER PALINGS, PLANKS SHOULD HAVE MINIMUM 35mm OVERLAP.
- NO GAPS SHALL BE LEFT BETWEEN THE FENCE AND THE GROUND.
- THE NOISE BARRIER SHOULD BE OF DURABLE CONSTRUCTION.

NOTE:
THESE ACOUSTIC FENCE PLANS SHOULD BE READ IN CONJUNCTION WITH THE C200 SERIES EARTHWORKS DRAWINGS.

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	06/10/17

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 06/10/17

SCALE 0 1 2 3m
SCALE 1:50 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ACOUSTIC FENCE TYPICAL SECTIONS

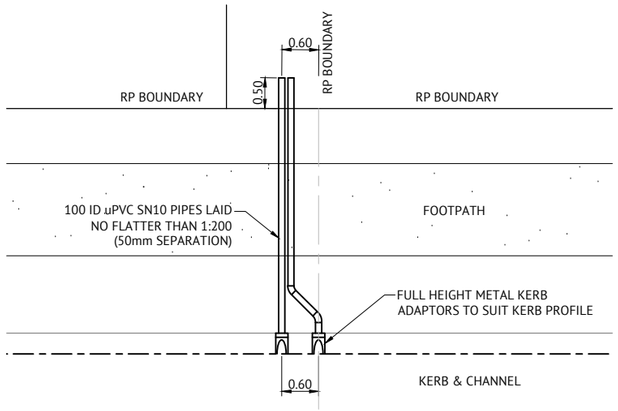
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C333	A

STORMWATER DRAINAGE NOTES

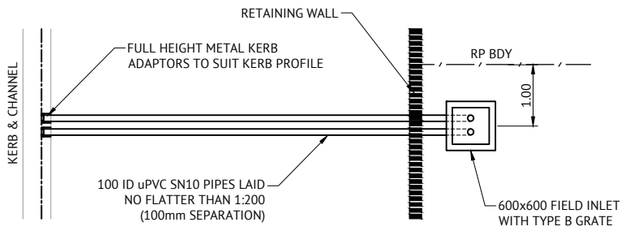
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE STORMWATER DRAINAGE DRAWINGS
2. STORMWATER PITS ARE TO BE CONSTRUCTED INSITU IN ACCORDANCE WITH DRAWINGS OR AS VARIED AS NOTED ON THE DRAWING. PREFABRICATED STORMWATER PITS CAN BE USED SUBJECT TO WRITTEN APPROVAL FROM THE SUPERINTENDENT. CLASS D HEAVY DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN TRAFFIC AREAS, CLASS B LIGHT DUTY GALVANIZED STEEL GRATES ARE TO BE FITTED IN LANDSCAPE AREAS UNLESS NOTED OTHERWISE.
3. ALL DRAINAGE EXCAVATION AND CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH AS3500 AND THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND STANDARD DETAILS.
4. ALL MATERIALS SHALL MEET THE REQUIREMENTS OF AS1254 & AS1273.
5. ALL uPVC PIPES SHALL BE CLASS 'SN8' FOR Ø150 & Ø225, AND CLASS 'SN6' FOR Ø100 UNLESS NOTED OTHERWISE.
6. PIPES SHALL BE LAID AT MIN. 1% GRADE UNLESS NOTED OTHERWISE.
7. CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAIN LINES. ANY CONFLICT SHALL BE REPORTED TO THE SUPERINTENDENT FOR ANY NECESSARY ALTERATIONS PRIOR TO ANY CONSTRUCTION OF CONNECTING PIPEWORK.
8. WHERE PIPES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL LOADINGS (e.g. BUILDING FOOTINGS, RETAINING WALLS...etc) THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE.
9. BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
10. WHERE RECTANGULAR PIT STRUCTURES ARE USED, PIPES MUST NOT CONNECT TO THE PIT AT CORNERS.
11. ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE WORK HEALTH AND SAFETY ACT 2011 AND SUBSEQUENT AMENDMENTS.
12. REFER TO LCC STD DWG'S FOR TYPICAL ROOF SLAB REINFORCEMENT DETAILS.

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

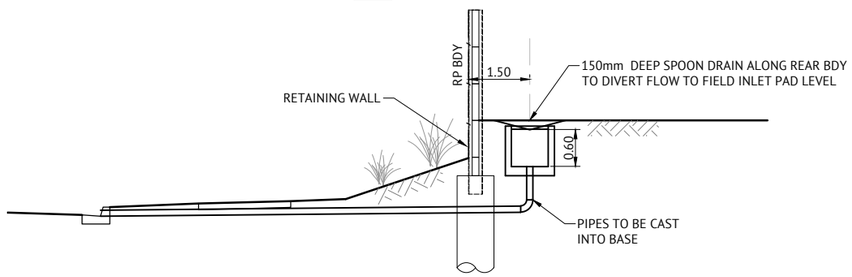
STRUCTURE TYPE	HORIZONTAL CONTROL POINT [REFERENCE POINT LOCATION]	VERTICALCONTROL REFERENCE LEVEL
MANHOLE	CENTRELINE OF MAIN SHAFT	FINISHED SURFACE LEVEL AT CENTRE OF MAIN SHAFT.
GULLY PIT OVER MANHOLE	CENTRE OF GULLY PIT	LIP LEVEL
GULLY PIT (LIP IN LINE)	CENTRE OF GULLY PIT	LIP LEVEL
HEADWALL	INTERSECTION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



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

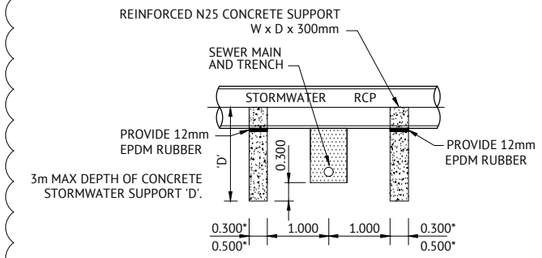


PLAN



ELEVATION

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

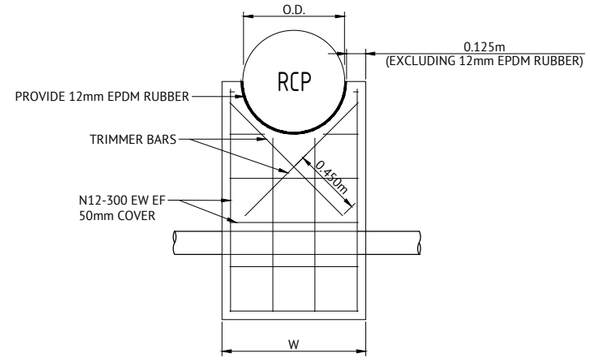


TYPICAL CONCRETE STORMWATER SUPPORT PLAN VIEW

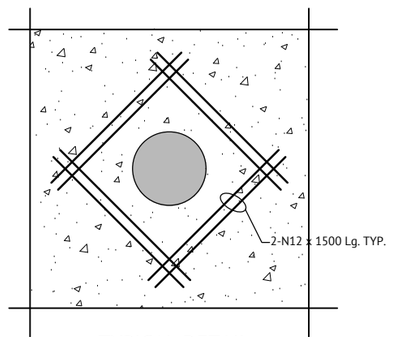
CONCRETE STORMWATER SUPPORT NOTES:

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

C



TYPICAL CONCRETE STORMWATER SUPPORT SECTION DETAIL
SCALE 1:20



TYPICAL DETAIL
GRATED PIT IN CONCRETE PAVEMENT
1:20 @ A1

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
04/05/18	C	UPDATED CONCRETE STORMWATER SUPPORT DETAIL	KH
10/11/17	B	MINOR AMENDMENTS	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise
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LEVEL 1, 100 BRUNSWICK STREET
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FORTITUDE VALLEY, QLD 4006
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WEB: www.premise.com.au

DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS	04/15/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 04/05/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE DETAILS AND NOTES

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C400	C

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CATHCMENTS AMENDED TO SUIT DRAINAGE ALIGNMENTS CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

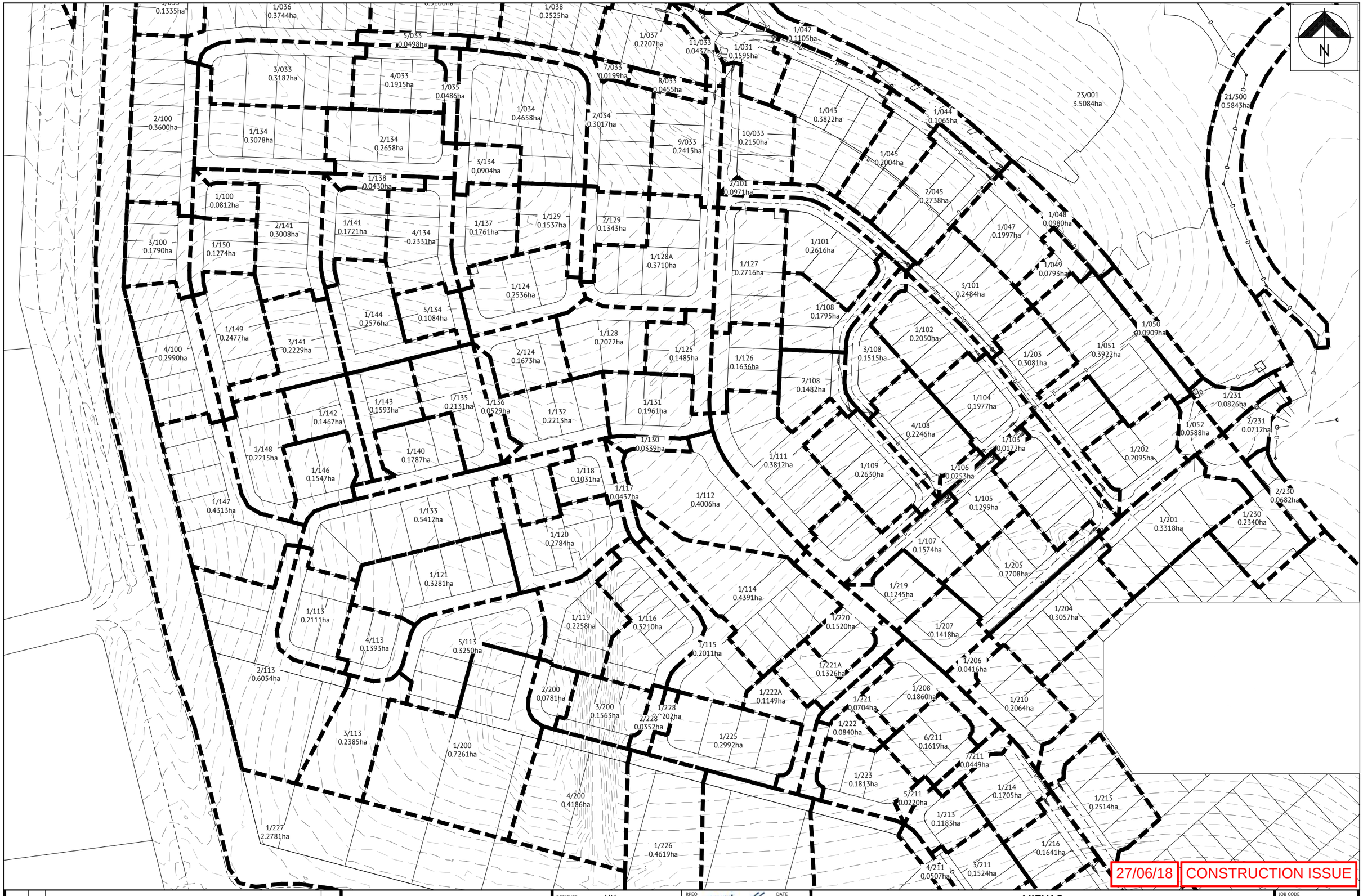
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	23/02/18
RPEQ	KEITH NEWELLS RPEQ 7295	DATE	23/02/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C401	B



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CATCHMENTS AMENDED TO SUIT DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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LEVEL 1, 100 BRUNSWICK STREET
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PH: (07) 3253 2222
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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	23/02/18

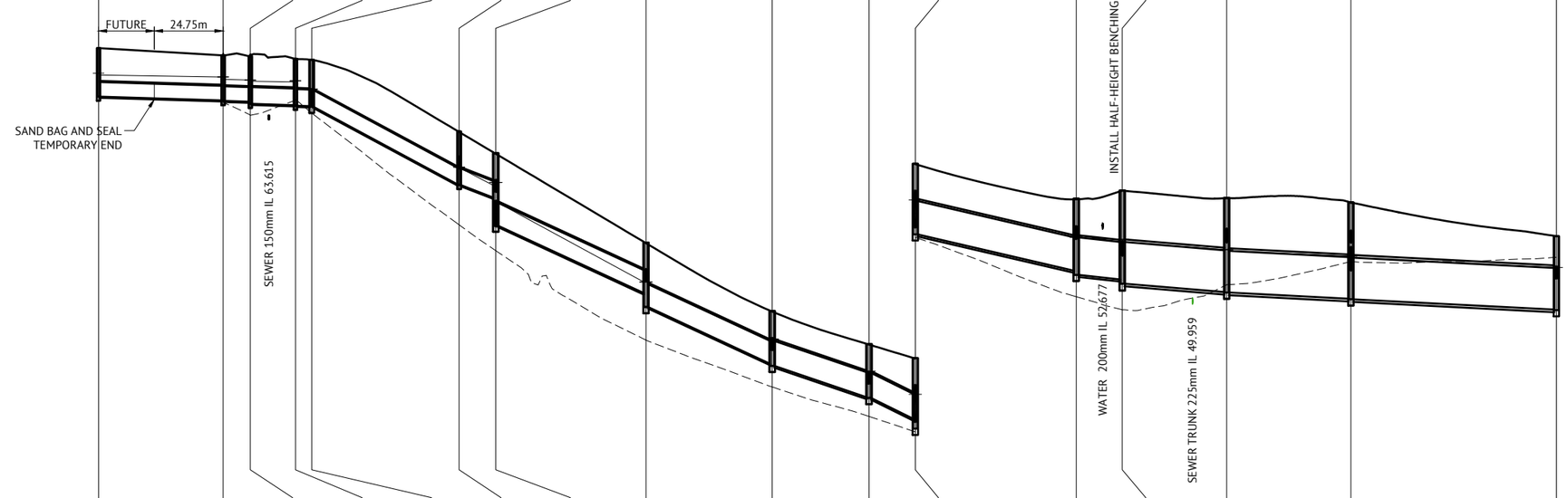
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 23/02/18

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 2 OF 2

JOB CODE: MIR001-01
SHEET NUMBER: C402
REV: B

STRUCTURE NAME	2/001	3/001	4/001	5/001	6/001	7/001	8/001	9/001	10/001	11/001	12/001	13/001	14/001	15/001	16/001	17/001
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)		525	525	600	600	600	600	825	825	900	900	1200	1350	1500	1500	1500
PIPE CLASS		2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
PIPE GRADE (%)		0.30%	0.30%	0.31%	0.26%	5.27%	3.50%	4.50%	4.50%	3.25%	4.50%	2.26%	1.00%	0.80%	0.50%	0.50%
PIPE SLOPE (1 in X)		333.33	333.31	321.18	382.72	18.98	28.57	22.22	22.22	30.72	22.22	44.17	100.00	125.00	200.00	200.00
FULL PIPE VELOCITY (m/s)		0.82	1.02	0.89	1.43	1.76	1.92	2.59	2.64	2.38	2.43	1.71	1.38	1.19	1.21	1.72
PART FULL VELOCITY (m/s)		1.19	1.24	1.31	1.43	4.56	4.00	5.56	5.59	5.04	5.71	4.65	3.45	3.21	2.72	2.97
DATUM RL	45.0											38.0				
PIPE FLOW (Cumecs)		0.177	0.221	0.252	0.403	0.498	0.542	1.383	1.412	1.514	1.546	1.937	1.980	2.096	2.133	3.045
W.S.E. IN STRUCTURE	65.282	65.147	65.055	65.008	64.711	61.899	61.346	57.762	55.705	54.552	53.720	52.380	52.299	51.929	51.699	51.289
HYDRAULIC GRADE LEVEL	65.219	65.143	65.060	65.034	64.994	64.966	64.736 C 64.711	64.673	61.899	61.858	61.237	60.621	57.762	57.688	55.705	55.643	54.552	54.490	53.720	53.682	52.380	52.370	52.287	52.204	51.929	51.884	51.699	51.640	51.289
DEPTH TO INVERT	1.747	1.619	1.659	1.640	1.715	1.680	1.700	1.668	1.688	1.909	1.929	1.605	2.605	1.819	2.319	1.900	1.975	1.920	1.940	2.186	2.543	2.593	2.743	3.200	3.350	3.387	3.407	3.466	3.486	2.643
INVERT LEVEL OF DRAIN	64.438	64.304	64.284	64.255	64.180	64.131	64.111	64.093	64.073	61.278	61.258	60.796	59.796	57.363	56.863	54.818	54.743	53.610	53.590	52.839	52.482	51.170	51.020	50.854	50.704	50.404	50.384	50.160	50.140	49.770
DESIGN SURFACE LEVEL	66.185	65.923	65.895	65.811	65.762	63.186	62.400	59.182	56.717	55.530	55.025	53.763	54.054	53.791	53.626	52.414
SETOUT COORDINATES	E8550.707 N31820.908	E8548.727 N31776.119	E8556.413 N31770.316	E8555.866 N31754.587 C	E8562.717 N31753.869	E8615.720 N31751.382	E8628.904 N31750.799	E8682.909 N31748.411	E8728.319 N31746.403	E8763.093 N31744.866	E8779.757 N31744.129	E8837.641 N31741.569	E8854.184 N31740.838	E8854.024 N31703.262	E8880.741 N31667.427	E8948.673 N31638.154
CHAINAGE	0.000	44.832	44.832	9.790	54.623	15.738	70.881	6.889	76.707	53.061	129.768	13.196	142.965	54.058	197.023	45.454	242.477	34.808	277.285	16.680	293.965	57.941	351.905	16.559	368.465	37.576	406.041	44.699	450.739	73.971	524.710



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	C	AMENDED DETAILS	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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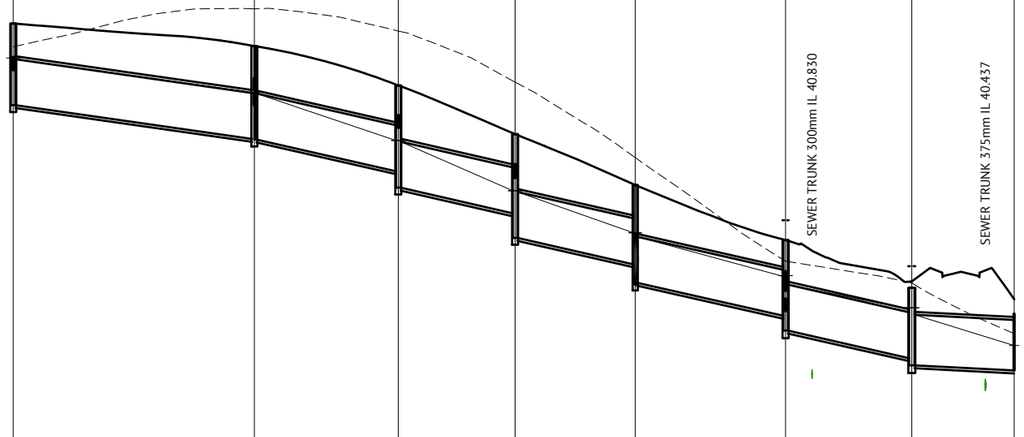
WEB: www.premise.au

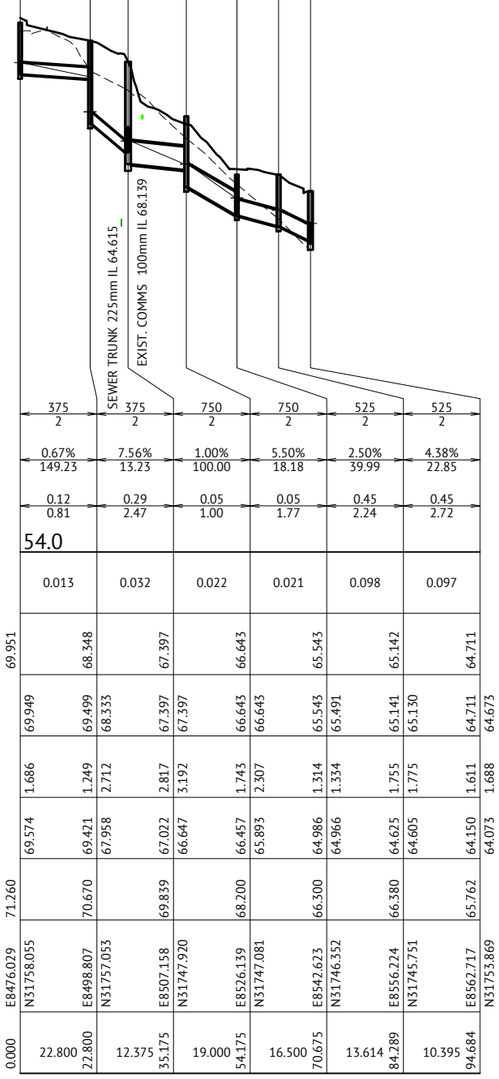
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS	22/06/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18	

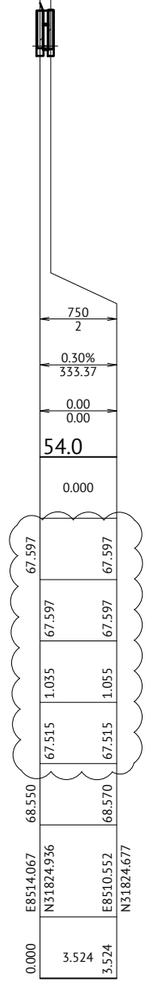
SCALE
0 10 20 30m
SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C403	C







STRUCTURE NAME		17/001		18/001		19/001		20/001		21/001		22/001		23/001		24/001
STRUCTURE DESCRIPTION		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		HEADWALL
PIPE SIZE (mm)			1500		1500		1500		1500		(2x)1500		(2x)1500		(2x)1650	
PIPE CLASS			2		2		2		2		2		2		2	
PIPE GRADE (%)			1.40%		2.20%		2.20%		2.20%		2.20%		2.19%		0.50%	
PIPE SLOPE (1 in X)			71.45		45.45		45.45		45.45		45.45		45.74		200.00	
FULL PIPE VELOCITY (m/s)			1.74		1.82		1.83		1.85		1.79		1.82		1.48	
PART FULL VELOCITY (m/s)			4.37		5.21		5.22		5.24		5.19		5.20		3.00	
DATUM RL 33.0																
PIPE FLOW (Cumecs)			3.073		3.207		3.232		3.263		6.327		6.416		6.320	
W.S.E. IN STRUCTURE	51.289			50.168		48.598		46.962		45.590		44.193		43.145		41.916
HYDRAULIC GRADE LEVEL	51.289	51.250		50.168	50.130	48.598	48.561	46.962	46.923	45.590	45.461	44.167	43.900	43.099	42.917	41.916	41.916
DEPTH TO INVERT	2.643	2.663		3.028	3.048	2.799	3.335	2.583	3.383	2.586	3.186	2.471	2.953	2.300	2.533	1.850	1.850
INVERT LEVEL OF DRAIN	49.770	49.750		48.650	48.630	47.596	47.061	46.223	45.423	44.561	43.961	42.882	42.400	41.500	41.267	41.100	41.100
DESIGN SURFACE LEVEL	52.414			51.678		50.595		48.806		47.147		45.353		43.800		43.150	
SETOUT COORDINATES	E8948.673	N31638.154		E9010.410	N31589.426	E9044.367	N31556.977	E9069.682	N31528.525	E9091.707	N31496.152	E9124.531	N31459.711	E9162.544	N31475.509	E9182.097	N31448.408
CHAINAGE	524.710		78.650	603.361		46.968	650.329		38.083	688.412		39.192	727.604		49.045	776.649		41.164	817.814		33.419	851.232	

STRUCTURE NAME		1/003		2/003		3/003		4/003		5/003		6/003		6/001
STRUCTURE DESCRIPTION		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET		L.I.L; 2.4m Lintel ON 1050mm DIA MANHOLE		IPWEA MANHOLE 1500mm DIA		IPWEA MANHOLE 1050mm DIA		IPWEA FIELD INLET - 900x600 TYPE 2 DOMED GRATE		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1200mm DIA
PIPE SIZE (mm)			375		375		750		750		525		525	
PIPE CLASS			2		2		2		2		2		2	
PIPE GRADE (%)			0.67%		7.56%		1.00%		5.50%		2.50%		4.38%	
PIPE SLOPE (1 in X)			149.23		13.23		100.00		18.18		39.99		22.85	
FULL PIPE VELOCITY (m/s)			0.12		0.29		0.05		0.05		0.45		0.45	
PART FULL VELOCITY (m/s)			0.81		2.47		1.00		1.77		2.24		2.72	
DATUM RL 54.0														
PIPE FLOW (Cumecs)			0.013		0.032		0.022		0.021		0.098		0.097	
W.S.E. IN STRUCTURE	69.951			68.348		67.397		66.643		65.543		65.142		64.711	
HYDRAULIC GRADE LEVEL	69.951	69.949		69.499	68.333	67.397	67.397	66.643	66.643	65.543	65.491	65.141	65.130	64.711	64.673
DEPTH TO INVERT	1.686	1.249		2.712	2.817	3.192	1.743	2.307	1.314	1.334	1.755	1.775	1.611	1.688	
INVERT LEVEL OF DRAIN	69.574	69.421		67.958	67.022	66.647	66.457	65.893	64.986	64.966	64.625	64.605	64.150	64.073	
DESIGN SURFACE LEVEL	71.260			70.670	69.839		68.200		66.300		66.380		65.762		
SETOUT COORDINATES	E8476.029	N31758.055		E8498.807	N31757.053	E8507.158	N31747.920	E8526.139	N31747.081	E8542.623	N31746.352	E8556.224	N31745.751	E8562.717	N31753.869
CHAINAGE	0.000		22.800	22.800		12.375	35.175	19.000	54.175	16.500	70.675	13.614	84.289	10.395	94.684

STRUCTURE NAME		1A/004		1/004
STRUCTURE DESCRIPTION		STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		IPWEA MANHOLE 1500mm DIA
PIPE SIZE (mm)			750	
PIPE CLASS			2	
PIPE GRADE (%)			0.30%	
PIPE SLOPE (1 in X)			333.37	
FULL PIPE VELOCITY (m/s)			0.00	
PART FULL VELOCITY (m/s)			0.00	
DATUM RL 54.0				
PIPE FLOW (Cumecs)			0.000	
W.S.E. IN STRUCTURE	67.597			67.597
HYDRAULIC GRADE LEVEL	67.597	67.597		67.597
DEPTH TO INVERT	1.035	1.055		1.055
INVERT LEVEL OF DRAIN	67.515	67.515		67.515
DESIGN SURFACE LEVEL	68.550			68.570
SETOUT COORDINATES	E8514.067	N31824.936		E8510.552 N31824.677
CHAINAGE	0.000		3.524	3.524

27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	D	AMENDED LEVELS	KH
13/04/18	C	5/003 GRATE CHANGE TO DOME TYPE. 3/003 & 6/003 FSL AMENDED	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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FORTITUDE VALLEY, QLD 4006
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WEB: www.premise.com.au

DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18

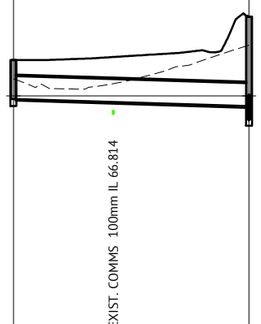
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

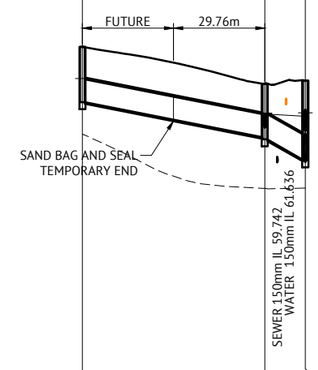
SCALE 0 10 20 30m
SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C404	D

STRUCTURE NAME	1/004		3/003		1/005		1/003		1/006		2/006		1/007		7/001		1/008		8/001		8/009		9/009		8/001		1/010		9/009		1/011		9/009		1/019		9/001
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA		IPWEA MANHOLE 1500mm DIA		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		HEADWALL SUIT 375mm DIA PIPE		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.I.L; 4.8m Lintel		IPWEA MANHOLE 1500mm DIA		IPWEA MANHOLE 1500mm DIA; EXT 600mm		IPWEA MANHOLE 1500mm DIA		IPWEA MANHOLE 1500mm DIA		IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA
PIPE SIZE (mm)		750				375				375				375				375				750		825				375				375				375
PIPE CLASS		2				2				4				2				2				2		2				2				2				2
PIPE GRADE (%)		0.30%				1.00%				0.50%				1.00%				1.00%				1.91%		5.03%				1.00%				1.00%				1.00%
PIPE SLOPE (1 in X)		333.33				100.00				200.01				100.00				100.00				52.29		19.88				100.00				100.00				100.00
FULL PIPE VELOCITY (m/s)		0.00				0.07				0.13				0.46				0.93				1.50		1.39				0.73				0.10				0.38
PART FULL VELOCITY (m/s)		0.00				0.78				0.75				1.38				1.65				3.35		4.89				1.55				0.88				1.31
DATUM RL	54.0					57.0				56.0				48.0				47.0				47.0						47.0				47.0				44.0
PIPE FLOW (Cumecs)		0.000				0.007				0.015				0.051				0.103				0.663		0.742				0.080				0.011				0.042
W.S.E. IN STRUCTURE	67.597		67.597		70.145		69.951		69.601		69.520		62.403		61.899		61.771		61.346		62.468		61.331		61.346		61.566		61.331		61.346		61.331		58.309		57.762
HYDRAULIC GRADE LEVEL	67.597	67.597	67.597	67.597	70.144		69.951	69.949	69.595		69.520	69.520	62.297		62.017	61.858	61.436		61.246	60.621	62.443		61.331	61.305	61.237	60.621	61.336		61.331	61.305	61.341		61.331	61.305	58.237		57.948	57.688
DEPTH TO INVERT	1.055	1.075	2.720	3.338	1.151		1.666	1.686	0.920		0.580	0.580	1.325		1.308	1.929	1.316		1.361	2.605	1.804		1.741	1.816	2.585	2.605	1.326		1.399	1.816	1.315		1.393	1.816	1.315		1.359	2.319
INVERT LEVEL OF DRAIN	67.515	67.495	67.265	66.647	69.769		69.594	69.574	69.220		69.150	69.150	61.922		61.878	61.258	61.061		61.039	59.796	61.695		60.555	60.480	59.816	59.796	60.921		60.897	60.480	60.966		60.903	60.480	57.862		57.823	56.863
DESIGN SURFACE LEVEL	68.570		69.985		70.920		71.260		70.140		69.730		63.247		63.186		62.377		62.400		63.497		62.296		62.400		62.248		62.296		62.282		62.296		59.177		59.182
SETOUT COORDINATES	E8510.552 N31824.677		E8507.158 N31747.920		E8476.834 N31775.522		E8476.029 N31758.055		E8475.539 N31675.250		E8462.106 N31671.643		E8613.805 N31755.323		E8615.720 N31751.382		E8628.245 N31748.789		E8628.904 N31750.799		E8628.599 N31823.133		E8625.970 N31763.680		E8628.904 N31750.799		E8623.616 N31764.231		E8625.970 N31763.680		E8631.795 N31765.981		E8625.970 N31763.680		E8682.121 N31752.167		E8682.909 N31748.411
CHAINAGE	3.524	76.832	80.356		0.000	17.486	17.486		0.000	13.909	13.909		0.000	4.433	4.433		0.000	2.137	2.137		0.000	59.511	59.511	13.211	72.722		0.000	2.424	2.424		0.000	6.302	6.302		0.000	3.853	3.853





C

27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	C	AMENDED LEVELS	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18

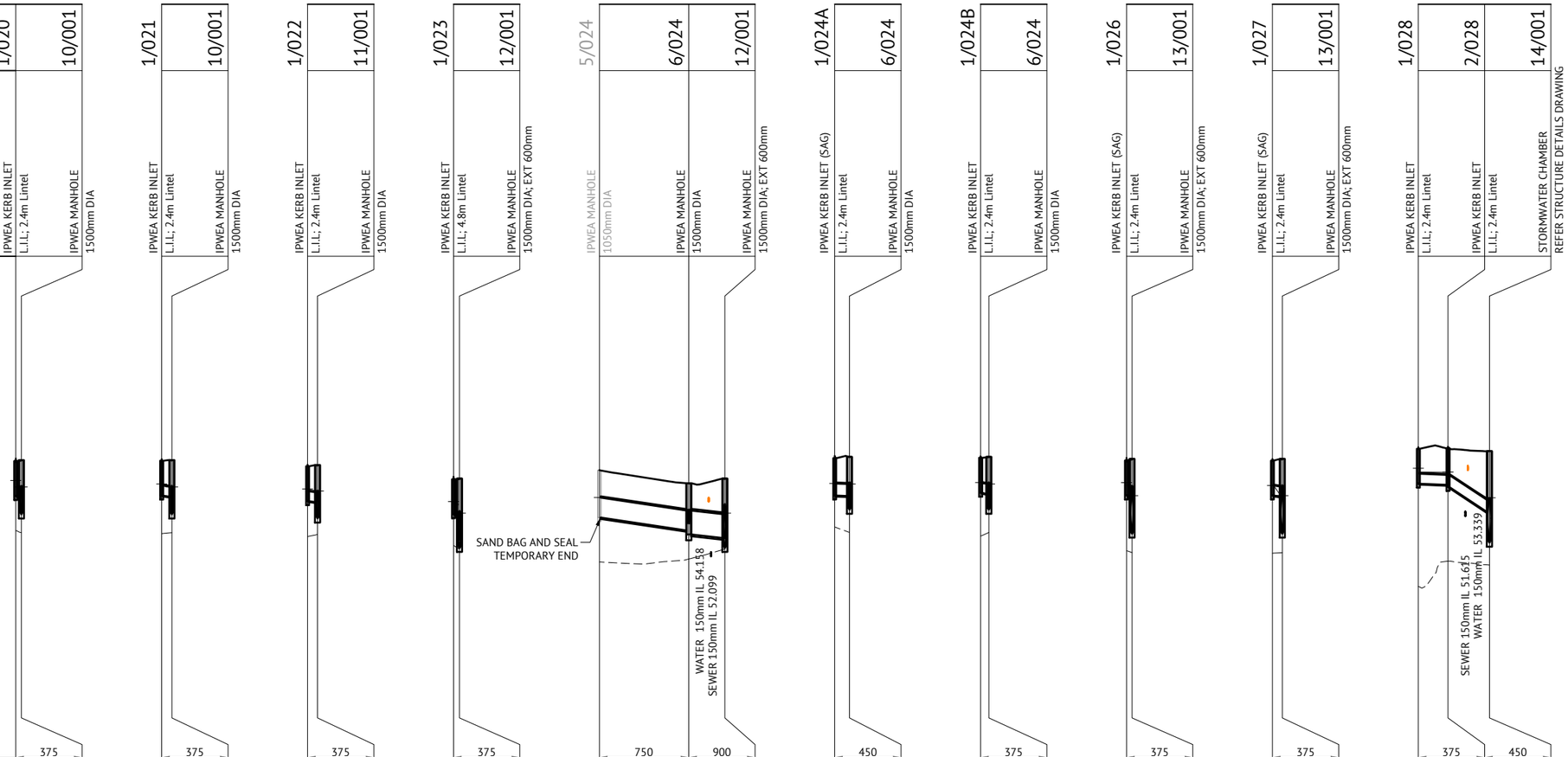
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C405	C



STRUCTURE NAME	1/020		10/001	1/021		10/001	1/022		11/001	1/023		12/001	5/024		6/024	12/001	1/024A		6/024	1/024B		6/024	1/026		13/001	1/027		13/001	1/028		2/028	14/001
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 4.8m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING
PIPE SIZE (mm)		375			375			375			375			750			450			375			375			375			375		450	
PIPE CLASS		2			2			2			2			2			2			2			2			2			2		2	
PIPE GRADE (%)		1.00%			1.00%			1.00%			1.00%			1.44%			0.30%			1.50%			1.00%			1.00%			0.40%		6.10%	
PIPE SLOPE (1 in X)		100.00			100.00			100.00			100.00			69.57			333.33			66.88			100.00			100.00			250.00		16.39	
FULL PIPE VELOCITY (m/s)		0.66			0.37			0.39			0.46			0.76			0.08			0.16			0.46			0.07			0.55		0.83	
PART FULL VELOCITY (m/s)		1.52			1.29			1.31			1.37			2.51			0.59			1.16			1.38			0.78			1.03		3.39	
DATUM RL	41.0			41.0			40.0			40.0			40.0				39.0			39.0			38.0			38.0			38.0			
PIPE FLOW (Cumecs)		0.073			0.041			0.043			0.050			0.334		0.361		0.012			0.017			0.051			0.007			0.061		0.132	
W.S.E. IN STRUCTURE	55.950		55.705	55.821		55.705	54.629		54.552	54.156		53.720	54.309		53.821	53.720	53.837		53.821	53.876		53.821	52.869		52.380	52.762		52.380	53.411		53.266	52.299
HYDRAULIC GRADE LEVEL		55.741	55.705	55.643	55.754	55.705	55.643	54.554	54.552	54.490	54.054	53.793	53.682	54.302	53.821	53.720	53.682	53.834	53.821	53.817	53.864	53.821	53.817	52.762	52.505	52.370	52.760	52.400	52.370	53.267	53.254	53.159	52.287	52.204
DEPTH TO INVERT		1.316	1.373	1.975	1.315	1.377	1.975	1.315	1.396	1.940	1.316	1.369	2.543	1.787	1.772	1.922	2.543	1.406	1.472	1.922	1.315	1.397	1.922	1.316	1.396	2.743	1.315	1.415	2.743	1.315	1.373	1.448	2.300	3.350
INVERT LEVEL OF DRAIN		55.366	55.344	54.743	55.379	55.341	54.743	54.171	54.133	53.590	53.679	53.656	52.482	53.552	53.067	52.917	52.782	53.384	53.367	52.917	53.489	53.442	52.917	52.387	52.366	51.020	52.385	52.348	51.020	52.828	52.784	52.709	51.754	50.704
DESIGN SURFACE LEVEL	56.682		56.717	56.695		56.717	55.486		55.530	54.995		55.025	55.338		54.839	55.025	54.790		54.839	54.804		54.839	53.703		53.763	53.700		53.763	54.144		54.157	54.054	
SETOUT COORDINATES	E8727.722 N31744.390	E8728.319 N31746.403		E8727.577 N31750.157	E8728.319 N31746.403		E8762.643 N31748.607	E8763.093 N31744.866		E8778.754 N31742.134	E8779.757 N31744.129		E8781.595 N31791.364	E8780.107 N31757.705	E8779.757 N31744.129		E8774.531 N31757.949	E8780.107 N31757.703		E8782.648 N31759.311	E8780.107 N31757.703		E8837.110 N31739.553	E8837.641 N31741.569		E8837.664 N31745.289	E8837.641 N31741.569		E8862.670 N31758.044	E8851.645 N31756.269	E8854.184 N31740.838	
CHAINAGE	0.000	2.118	2.118	0.000	3.840	3.840	0.000	3.775	3.775	0.000	2.282	2.282	0.000	33.694	33.694	13.578	47.272	0.000	5.581	5.581	0.000	3.097	3.097	0.000	2.098	2.098	0.000	3.721	3.721	0.000	11.175	11.175	15.638	26.814

27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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	MM	RPEQ	DATE 12/01/18
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	0 10 20 30m
PROJECT DIRECTOR	DATE 12/01/18	SCALE 1:500 (A1)	
JOSHUA STONE			

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C406	B

STRUCTURE NAME	1/029		15/001	1/030		15/001	1/031		16/001
STRUCTURE DESCRIPTION	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)		375			375			375	
PIPE CLASS		2			2			2	
PIPE GRADE (%)		1.00%			1.00%			1.00%	
PIPE SLOPE (1 in X)		100.00			99.99			99.99	
FULL PIPE VELOCITY (m/s)		0.22			0.26			0.39	
PART FULL VELOCITY (m/s)		1.12			1.17			1.31	
DATUM RL	38.0			38.0			38.0		
PIPE FLOW (Cumecs)		0.025			0.029			0.043	
W.S.E. IN STRUCTURE	52.758		51.929	52.705		51.929	52.695		51.699
HYDRAULIC GRADE LEVEL	52.733	52.378	51.884	52.671	52.323	51.884	52.621	52.335	51.640
DEPTH TO INVERT	1.308	1.508	3.407	1.317	1.571	3.407	1.321	1.417	3.486
INVERT LEVEL OF DRAIN	52.358	52.282	50.384	52.296	52.220	50.384	52.246	52.209	50.140
DESIGN SURFACE LEVEL	53.666		53.791	53.613		53.791	53.567		53.626
SETOUT COORDINATES	E8849.063 N31708.854	E8854.024 N31703.262		E8859.730 N31708.147	E8854.024 N31703.262		E8879.522 N31663.948	E8880.741 N31667.427	
CHAINAGE	0.000	7.559	7.559	0.000	7.579	7.579	0.000	3.689	3.689

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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

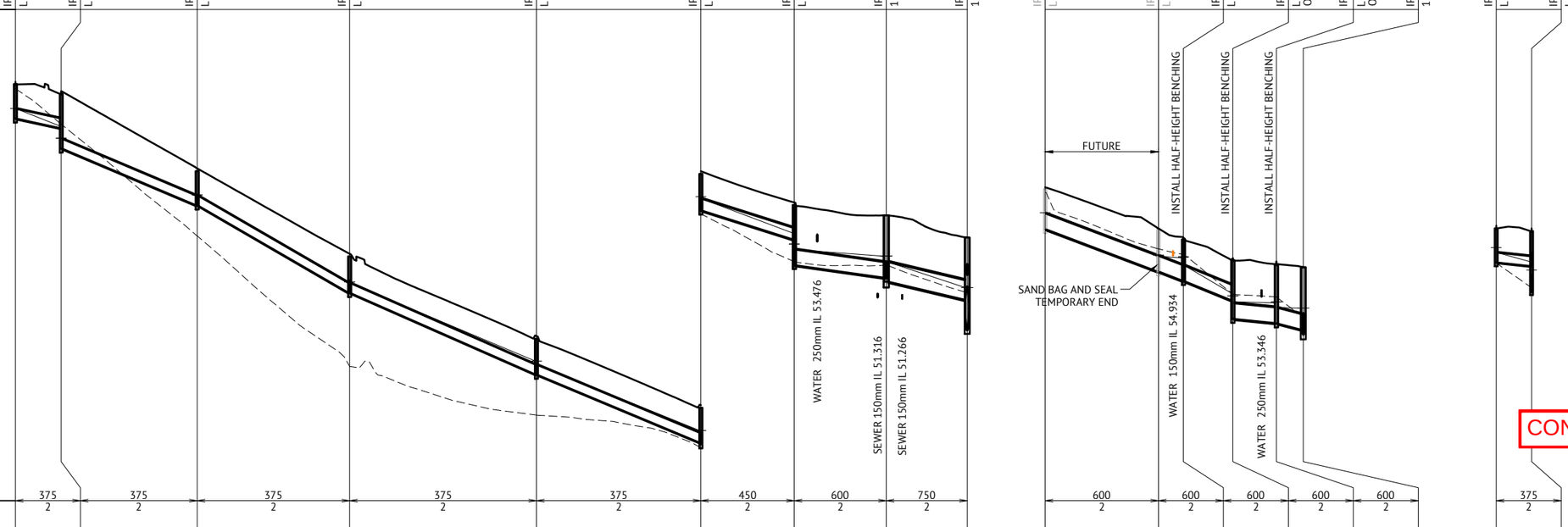
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	12/01/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	12/01/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C407	B

STRUCTURE NAME	1/032	2/032	3/032	4/032	5/032	6/032	7/032	8/032	16/001	7/033	8/033	9/033	10/033	11/033	8/032	1/037	7/032
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel ON 1050mm DIA MANHOLE	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 3.6m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel
PIPE SIZE (mm)	375	375	375	375	375	450	600	600	750	600	600	600	600	600	600	375	
PIPE CLASS	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
PIPE GRADE (%)	2.06%	4.15%	5.70%	4.35%	4.11%	3.09%	1.36%	2.25%		3.70%	3.53%	3.87%	0.93%	2.29%		1.00%	
PIPE SLOPE (1 in X)	48.56	24.07	17.54	23.01	24.31	32.41	73.71	44.44		27.04	28.37	25.82	107.25	43.70		100.00	
FULL PIPE VELOCITY (m/s)	0.22	0.44	0.83	1.13	1.84	1.77	1.26	2.12		1.62	1.65	1.83	1.28	1.32		0.64	
PART FULL VELOCITY (m/s)	1.45	2.27	3.04	3.00	3.33	3.24	2.53	3.89		3.91	3.86	4.11	2.40	3.21		1.50	
DATUM RL	48.0					39.0				41.0						40.0	
PIPE FLOW (Cumecs)	0.025	0.049	0.092	0.125	0.203	0.281	0.357	0.935		0.459	0.468	0.518	0.566	0.582		0.071	
W.S.E. IN STRUCTURE	67.592	66.446	64.261	60.913	57.869	55.201	53.375	52.913	51.699	56.578	54.948	54.880	53.380	53.150	52.913	54.240	53.375
HYDRAULIC GRADE LEVEL	67.574	66.916	64.261	60.913	57.869	55.201	53.793	52.906	51.640	56.536	54.948	54.841	53.481	53.110	52.906	54.040	53.695
	66.419	64.223		60.858	57.713	55.111	53.158	52.678	51.699		54.903	54.544	53.153	52.934	52.678		
DEPTH TO INVERT	1.331	1.317	2.110	1.315	1.397	1.342	1.323	2.404	3.486	1.567	1.651	1.589	1.541	2.265	2.404	1.316	1.347
		1.335		1.417	1.365	1.417	2.317	2.554	2.399		1.671	1.609	2.257	2.285	2.554		
INVERT LEVEL OF DRAIN	67.199	66.857	66.044	63.868	60.503	54.736	53.552	52.078	50.140	55.936	54.323	53.964	53.207	52.335	52.078	53.665	53.529
		66.044		63.848	60.483	54.661	52.558	51.928	51.227		54.303	53.944	52.491	52.315	51.928		
DESIGN SURFACE LEVEL	68.530	68.154	65.183	61.900	58.724	56.077	54.875	54.482	53.626	57.503	55.973	55.553	54.748	54.600	54.482	54.981	54.875
SETOUT COORDINATES	E8537.565 N31707.205	E8544.434 N31723.368	E8596.752 N31721.135	E8655.389 N31718.973	E8727.130 N31714.210	E8789.245 N31702.230	E8824.113 N31693.505	E8849.640 N31669.063	E8880.741 N31667.427	E8794.721 N31647.442	E8837.035 N31636.855	E8846.249 N31634.215	E8856.899 N31649.912	E8843.890 N31660.445	E8849.640 N31669.063	E8817.437 N31681.698	E8824.113 N31693.505
CHAINAGE	0.000	17.589	52.366	58.677	128.632	71.900	200.532	63.261	263.793	35.943	299.737	35.403	335.140	31.144	366.284	0.000	13.597
		17.589	69.955														13.597
										0.000	43.619	9.596	19.039	16.738	10.360		
											43.619	53.215	72.254	88.993	99.352		



27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

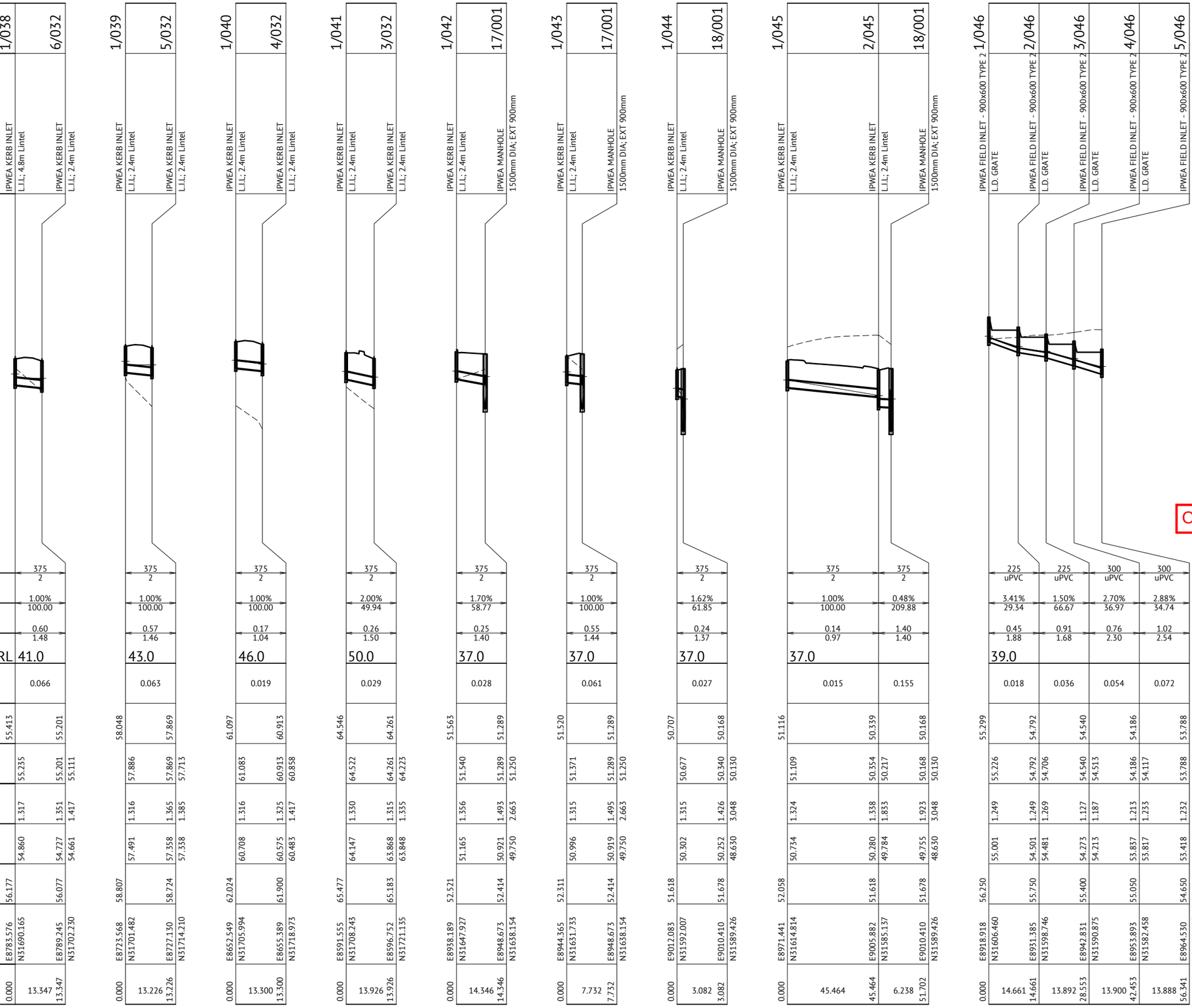
Premise

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

DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS RPEQ 7295	12/01/18
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	DATE	0 10 20 30m	
JOSHUA STONE	12/01/18	SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 6 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C408	B



STRUCTURE NAME	1/038	6/032	1/039	5/032	1/040	4/032	1/041	3/032	1/042	17/001	1/043	17/001	1/044	18/001	1/045	2/045	18/001	1/046	2/046	3/046	4/046	5/046
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 4.8m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE
PIPE SIZE (mm)		375		375		375		375		375		375		375		375	375		225 uPVC	225 uPVC	300 uPVC	300 uPVC
PIPE CLASS		2		2		2		2		2		2		2		2	2		2	2	2	2
PIPE GRADE (%)		1.00%		1.00%		1.00%		2.00%		1.70%		1.00%		1.62%		1.00%	0.48%		3.41%	1.50%	2.70%	2.88%
PIPE SLOPE (1 in X)		100.00		100.00		100.00		49.94		58.77		100.00		61.85		100.00	209.88		29.34	66.67	36.97	34.74
FULL PIPE VELOCITY (m/s)		0.60		0.57		0.17		0.26		0.25		0.55		0.24		0.14	1.40		0.45	0.91	0.76	1.02
PART FULL VELOCITY (m/s)		1.48		1.46		1.04		1.50		1.40		1.44		1.37		0.97	1.40		1.88	1.68	2.30	2.54
DATUM RL	41.0		43.0		46.0		50.0		37.0		37.0		37.0		37.0			39.0				
PIPE FLOW (Cumecs)		0.066		0.063		0.019		0.029		0.028		0.061		0.027		0.015	0.155		0.018	0.036	0.054	0.072
W.S.E. IN STRUCTURE	55.413	55.201	58.048	57.869	61.097	60.913	64.546	64.261	51.563	51.289	51.520	51.289	50.707	50.168	51.116	50.359	50.168	55.299	54.792	54.540	54.186	53.788
HYDRAULIC GRADE LEVEL	55.235	55.201	57.886	57.869	61.083	60.913	64.522	64.261	51.540	51.289	51.371	51.289	50.677	50.340	51.109	50.354	50.168	55.226	54.792	54.706	54.540	54.513	54.186	54.117	53.788
DEPTH TO INVERT	1.317	1.351	1.316	1.365	1.316	1.325	1.330	1.315	1.356	1.493	1.315	1.495	1.315	1.426	1.324	1.338	1.923	1.249	1.249	1.269	1.127	1.187	1.213	1.233	1.232
INVERT LEVEL OF DRAIN	54.860	54.727	57.491	57.358	60.708	60.575	64.147	63.868	51.165	50.921	50.996	50.919	50.302	50.252	50.734	50.280	49.755	55.001	54.501	54.481	54.273	54.213	53.837	53.817	53.418
DESIGN SURFACE LEVEL	56.177	56.077	58.807	58.724	62.024	61.900	65.477	65.183	52.521	52.414	52.311	52.414	51.618	51.678	52.058	51.618	51.678	56.250	55.750	55.400	55.050	54.650
SETOUT COORDINATES	E8783.576 N31690.165	E8789.245 N31702.230	E8723.568 N31701.482	E8727.130 N31714.210	E8652.549 N31705.994	E8655.389 N31718.973	E8591.555 N31708.243	E8596.752 N31721.135	E8938.189 N31647.927	E8948.673 N31638.154	E8944.365 N31631.733	E8948.673 N31638.154	E9012.085 N31592.007	E9010.410 N31589.426	E8971.441 N31614.814	E9005.882 N31585.137	E9010.410 N31589.426	E8918.918 N31606.460	E8931.385 N31598.746	E8942.831 N31590.875	E8953.893 N31582.458	E8964.530 N31573.529
CHAINAGE	0.000	13.347 13.347	0.000	13.226 13.226	0.000	13.300 13.300	0.000	13.926 13.926	0.000	14.346 14.346	0.000	7.732 7.732	0.000	3.082 3.082	0.000	45.464 45.464	6.238 51.702	0.000	14.661 14.661	13.892 28.553	13.900 42.453	13.888 56.341

27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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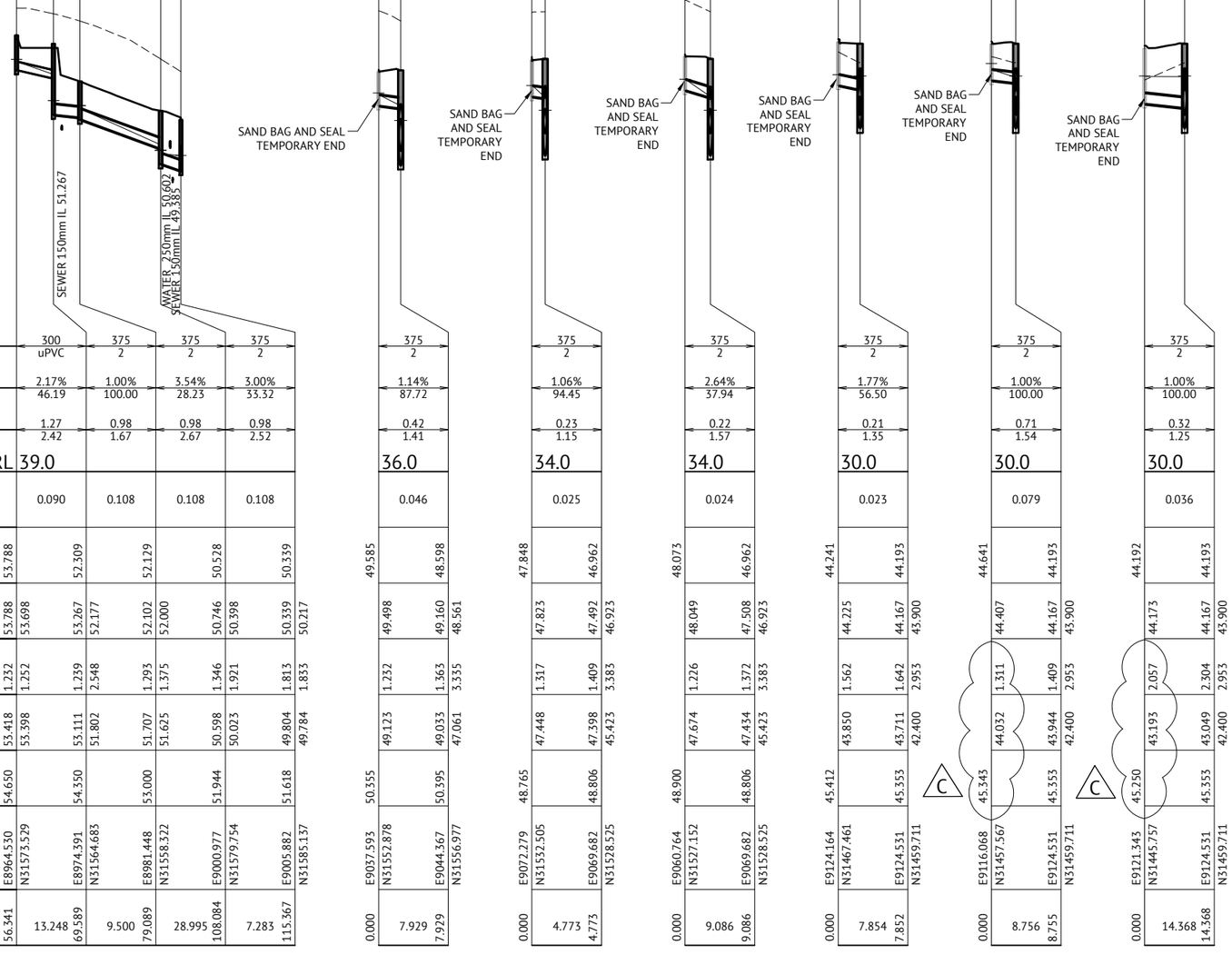
DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 12/01/18

RPEQ: KEITH HOWELLS RPEQ 7295 — DATE 12/01/18

SCALE 0 10 20 30m — SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 7 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C409	B



STRUCTURE NAME	5/046	6/046	7/046	8/046	2/045	1/047	19/001	1/048	20/001	1/049	20/001	1/050	22/001	1/051	22/001	1/052	22/001
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA KERB INLET L.I.L; 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING
PIPE SIZE (mm)	300 uPVC	375 2	375 2	375 2		375 2		375 2		375 2		375 2		375 2		375 2	
PIPE CLASS PIPE GRADE (%)	2.17%	1.00%	3.54%	3.00%		1.14%		1.06%		2.64%		1.77%		1.00%		1.00%	
PIPE SLOPE (1 in X) FULL PIPE VELOCITY (m/s)	46.19 1.27	100.00 0.98	28.23 0.98	33.32 0.98		87.72 0.42		94.45 0.23		37.94 0.22		56.50 0.21		100.00 0.71		100.00 0.32	
PART FULL VELOCITY (m/s)	2.42	1.67	2.67	2.52		1.41		1.15		1.57		1.35		1.54		1.25	
DATUM RL	39.0					36.0		34.0		34.0		30.0		30.0		30.0	
PIPE FLOW (Cumecs)	0.090	0.108	0.108	0.108		0.046		0.025		0.024		0.023		0.079		0.036	
W.S.E. IN STRUCTURE	53.788	52.309	52.129	50.528	50.339	49.585	48.598	47.848	46.962	48.073	46.962	44.241	44.193	44.641	44.193	44.192	44.193
HYDRAULIC GRADE LEVEL	53.788	53.698 / 53.267	52.177	52.102	52.000 / 50.746	50.398	50.339 / 50.217	49.498	49.160 / 48.561	47.823	47.492 / 46.923	48.049	47.508 / 46.923	44.225	44.167 / 43.900	44.407	44.167 / 43.900	44.173	44.167 / 43.900
DEPTH TO INVERT	1.232	1.252 / 1.239	2.548	1.293	1.375 / 1.346	1.921	1.813 / 1.853	1.252	1.363 / 3.335	1.317	1.409 / 3.383	1.226	1.372 / 3.383	1.562	1.642 / 2.953	1.311	1.409 / 2.953	2.057	2.304 / 2.953
INVERT LEVEL OF DRAIN	53.418	53.398 / 53.111	51.802	51.707	51.625 / 50.598	50.023	49.804 / 49.784	49.123	49.033 / 47.061	47.448	47.398 / 45.423	47.674	47.434 / 45.423	43.850	43.711 / 42.400	44.032	43.944 / 42.400	43.193	43.049 / 42.400
DESIGN SURFACE LEVEL	54.650	54.350	53.000	51.944	51.618	50.355	50.395	48.765	48.806	48.900	48.806	45.412	45.353	45.343	45.353	45.250	45.353
SETOUT COORDINATES	E8964.530 N31573.529	E8974.391 N31564.683	E8981.448 N31558.322	E9000.977 N31579.754	E9005.882 N31585.137	E9037.593 N31552.878	E9044.367 N31556.977	E9072.279 N31532.505	E9069.682 N31528.525	E9060.764 N31527.152	E9069.682 N31528.525	E9124.164 N31467.461	E9124.531 N31459.711	E9116.068 N31457.567	E9124.531 N31459.711	E9121.343 N31445.757	E9124.531 N31459.711
CHAINAGE	56.341	13.248 / 69.589	9.500 / 79.089	28.995 / 108.084	7.283 / 115.367	0.000	7.929 / 7.929	0.000	4.773 / 4.773	0.000	9.086 / 9.086	0.000	7.854 / 7.852	0.000	8.756 / 8.755	0.000	14.368 / 14.368

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	C	AMENDED STRUCTURE FSL'S	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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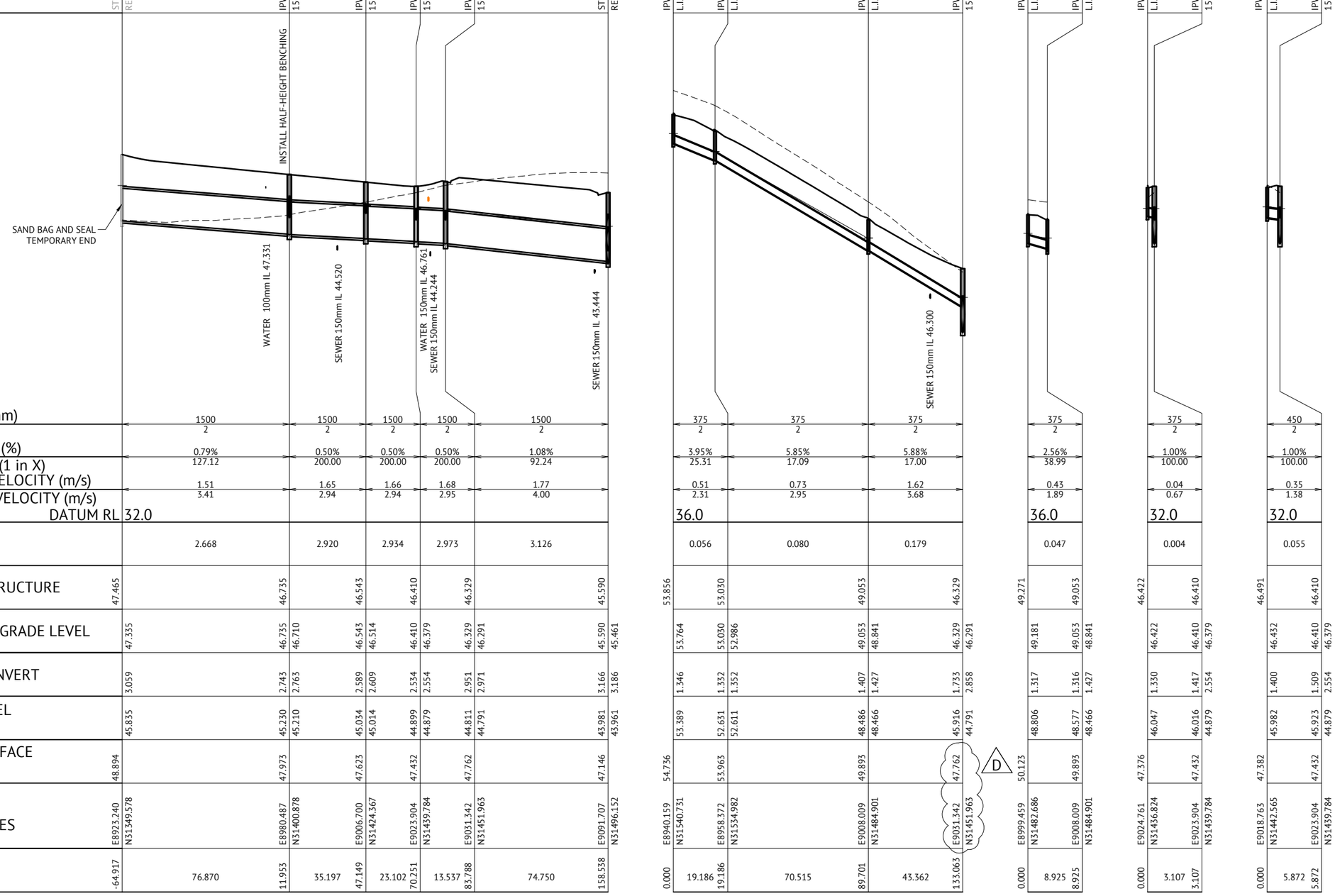
DESIGNED	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS	23/02/18
PROJECT MANAGER	JS	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	23/02/18	0 10 20 30m	
		SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 8 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C410	C



STRUCTURE NAME	16/100		17/100		18/100		19/100		20/100		21/001		1/101		2/101		3/101		20/100		1/102		3/101		1/103		19/100		1/104		19/100
STRUCTURE DESCRIPTION	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA MANHOLE 1500mm DIA; EXT 900mm		STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm		IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel		IPWEA MANHOLE 1500mm DIA; EXT 900mm
PIPE SIZE (mm)		1500		1500		1500		1500		1500				375		375		375				375		375		375		450		
PIPE CLASS		2		2		2		2		2				2		2		2				2		2		2		2		
PIPE GRADE (%)		0.79%		0.50%		0.50%		0.50%		1.08%				3.95%		5.85%		5.88%				2.56%		1.00%		1.00%		1.00%		
PIPE SLOPE (1 in X)		127.12		200.00		200.00		200.00		92.24				25.31		17.09		17.00				38.99		100.00		100.00		100.00		
FULL PIPE VELOCITY (m/s)		1.51		1.65		1.66		1.68		1.77				0.51		0.73		1.62				0.43		0.04		0.04		0.35		
PART FULL VELOCITY (m/s)		3.41		2.94		2.94		2.95		4.00				2.31		2.95		3.68				1.89		0.67		0.67		1.38		
DATUM RL	32.0												36.0								36.0				32.0				32.0	
PIPE FLOW (Cumecs)		2.668		2.920		2.934		2.973		3.126				0.056		0.080		0.179				0.047		0.004		0.004		0.055		
W.S.E. IN STRUCTURE	47.465		46.735		46.543		46.410		46.329		45.590		53.856		53.030		49.053		46.329		49.271		49.053		46.422		46.410		46.491		46.410
HYDRAULIC GRADE LEVEL	47.335		46.735		46.543		46.410		46.329		45.590	45.461	53.764		53.030		49.053		46.329	46.291	49.181		49.053	48.841	46.422		46.410	46.379	46.432		46.410	46.379
DEPTH TO INVERT	3.059		2.743		2.589		2.534		2.951		3.166	3.186	1.346		1.332		1.407		1.733	2.858	1.317		1.316	1.427	1.330		1.417	2.554	1.400		1.509	2.554
INVERT LEVEL OF DRAIN	45.835		45.230		45.034		44.899		44.811		43.981	43.961	53.389		52.631		48.486		45.916	44.791	48.806		48.577	48.466	46.047		46.016	44.879	45.982		45.923	44.879
DESIGN SURFACE LEVEL	48.894		47.973		47.623		47.432		47.762		47.146		54.736		53.963		49.893		47.762		50.123		49.893		47.376		47.432		47.382		47.432	
SETOUT COORDINATES	E8923.240 N31349.578		E8980.487 N31400.878		E9006.700 N31424.367		E9023.904 N31439.784		E9031.342 N31451.963		E9091.707 N31496.152		E8940.159 N31540.731		E8958.372 N31534.982		E9008.009 N31484.901		E9031.342 N31451.963		E8999.459 N31482.686		E9008.009 N31484.901		E9024.761 N31436.824		E9023.904 N31439.784		E9018.763 N31442.565		E9023.904 N31439.784
CHAINAGE	-64.917	76.870	11.953	35.197	47.149	23.102	70.251	13.537	83.788	74.750	158.538		0.000	19.186	19.186	70.515	89.701	43.362	133.063		0.000	8.925	8.925		0.000	3.107	3.107		0.000	5.872	5.872	

27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
02/05/18	D	AMENDED STRUCTURE FSL'S	KH
23/02/18	C	AMENDED STRUCTURE FSL'S	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
23/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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WEB: www.premise.com.au

DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/05/18
RPEQ	KEITH HOWELLS	DATE	02/05/18
	RPEQ 7295		

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 9 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C411	D

STRUCTURE NAME	1/105	18/100	1/106	18/100	1/107	17/100	1/108	2/108	3/108	4/108	5/108	17/100	1/109	5/108	1/110	4/108
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel
PIPE SIZE (mm)	375 2		375 2		375 2		375 2	375 2	375 2	375 2	600 2	675 2	375 2		375 2	
PIPE CLASS																
PIPE GRADE (%)	1.00%		1.00%		1.00%		5.40%	5.39%	5.28%	0.30%	0.30%		1.46%		1.00%	
PIPE SLOPE (1 in X)	100.00		100.00		100.00		18.52	18.54	18.94	333.34	333.33		68.44		100.00	
FULL PIPE VELOCITY (m/s)	0.30		0.06		0.36		0.45	0.83	1.17	0.69	0.75		0.67		0.09	
PART FULL VELOCITY (m/s)	1.22		0.75		1.29		2.50	2.98	3.25	1.23	1.33		1.75		0.86	
DATUM RL	32.0		32.0		33.0		35.0						33.0		33.0	
PIPE FLOW (Cumecs)	0.033		0.006		0.040		0.050	0.092	0.130	0.195	0.267		0.074		0.010	
W.S.E. IN STRUCTURE	46.681	46.543	46.654	46.543	47.050	46.735	51.709	50.136	49.482	46.807	46.764	46.735	47.329	46.764	46.884	46.807
HYDRAULIC GRADE LEVEL	46.637	46.543 46.514	46.653	46.543 46.514	46.985	46.735 46.710	51.637	50.122	50.047	49.482 49.362	46.807 46.773	46.764 46.742 46.735 46.710	47.170	46.764 46.742	46.880	46.807 46.773
DEPTH TO INVERT	1.315	1.386 2.609	1.315	1.404 2.609	1.315	1.387 2.763	1.354	1.338	1.558	1.478 1.498	1.443 1.668	1.782 1.857 1.938 2.763	1.328	1.375 1.857	1.321	1.404 1.668
INVERT LEVEL OF DRAIN	46.262	46.237 45.014	46.278	46.220 45.014	46.610	46.585 45.210	51.262	49.692	49.672	49.007 48.987	46.385 46.160	46.132 46.057 46.035 45.210	46.795	46.539 46.057	46.505	46.425 46.160
DESIGN SURFACE LEVEL	47.577	47.623	47.593	47.623	47.925	47.973	52.616	51.030	50.485	47.828	47.914	47.973	48.122	47.914	47.827	47.828
SETOUT COORDINATES	E9008.101 N31422.309	E9006.700 N31424.367	E9001.620 N31427.157	E9006.700 N31424.367	E8981.979 N31398.902	E8980.487 N31400.878	E8917.951 N31478.748	E8924.648 N31450.547	E8936.637 N31449.058	E8969.577 N31412.393	E8973.955 N31404.267	E8980.487 N31400.878	E8961.932 N31391.592	E8973.955 N31404.267	E8963.708 N31406.836	E8969.577 N31412.393
CHAINAGE	0.000	2.494 2.494	0.000	5.821 5.821	0.000	2.478 2.478	0.000	29.059 29.059	12.327 41.386	49.288 90.674	9.245 99.919	7.359 107.277	0.000	17.471 17.471	0.000	8.083 8.083

SEWER 150mm IL 45.953

WATER 100mm IL 47.238

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

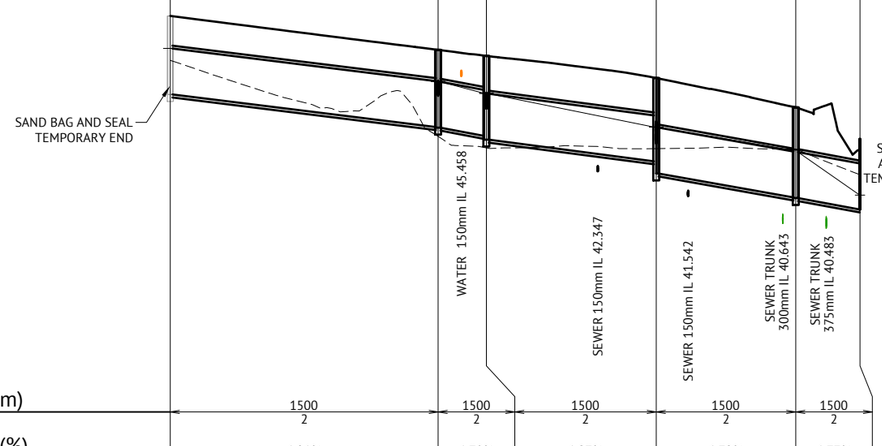
Premise

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

DESIGNED	MM	RPEQ	DATE
CHECKED	JS	K. Howells KEITH HOWELLS RPEQ 7295	12/01/18
PROJECT MANAGER	JS	SCALE	0 10 20 30m
PROJECT DIRECTOR	JOSHUA STONE	DATE	12/01/18
		SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 10 OF 14
JOB CODE	MIR001-01
SHEET NUMBER	C412
REV	B

STRUCTURE NAME	13/200	14/200	15/200	16/200	17/200	18/200	1/201	16/200	1/202	16/200	1/203	2/203	15/200	1/204	14/200	1/205	14/200	3/229	4/229
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	HEADWALL	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 3.6m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 3.6m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm
PIPE SIZE (mm)		1500 / 2	1500 / 2	1500 / 2	1500 / 2	1500 / 2	375 / 2	375 / 2	375 / 2	375 / 2	375 / 2	450 / 2	375 / 2	375 / 2	375 / 2	375 / 2	375 / 2	1050 / 2	1050 / 2
PIPE CLASS																			
PIPE GRADE (%)		1.21%	1.70%	1.27%	1.72%	1.77%	1.00%	1.00%	1.00%	1.00%	1.00%	0.30%	1.00%	1.00%	1.00%	1.00%	1.00%	1.28%	1.28%
PIPE SLOPE (1 in X)		82.33	58.82	78.47	58.30	56.56	99.61	100.00	100.00	100.00	100.00	333.34	100.00	100.00	100.00	100.00	100.00	78.17	78.17
FULL PIPE VELOCITY (m/s)		0.98	1.04	1.08	1.13	1.13	0.64	0.48	0.48	0.48	0.79	0.55	0.67	0.67	0.67	0.62	0.62	2.36	2.36
PART FULL VELOCITY (m/s)		3.55	4.07	3.71	4.18	4.22	1.51	1.39	1.39	1.39	1.59	1.01	1.52	1.52	1.52	1.49	1.49	3.81	3.81
DATUM RL	30.0						30.0		30.0		31.0			31.0		31.0		29.0	
PIPE FLOW (Cumecs)		1.730		1.834		1.909		2.001		1.990		0.071		0.053		0.087	0.087	0.075	0.068	2.042
W.S.E. IN STRUCTURE	46.352		45.278		44.889		43.785		43.039		41.569	43.985	43.785	44.133	43.785	45.234	44.953	44.889	45.509	45.278	45.278	45.493	45.278	45.278	43.077	42.947	42.947
HYDRAULIC GRADE LEVEL	46.347		45.278	45.266	44.889	44.875	43.785	43.771	43.027	42.971	41.569	41.569	43.799	43.785	43.785	43.771	44.051	43.785	43.771	44.966	44.943	44.911	44.889	44.875	45.294	45.278	45.266	45.304	45.278	45.266	42.956	42.856	42.856
DEPTH TO INVERT	2.563		2.518	2.538	2.606	2.729	2.717	3.115	2.894	2.914	2.300	2.300	1.988	2.115	3.115	1.707	1.814	3.115	1.341	1.379	1.410	1.683	2.729	1.315	1.468	2.538	1.315	1.411	2.538	2.700	2.580	
INVERT LEVEL OF DRAIN	44.847		43.786	43.766	43.498	43.375	42.669	42.271	41.491	41.471	41.100	41.100	43.360	43.271	42.271	43.676	43.572	42.271	44.582	44.492	44.461	44.421	43.375	44.919	44.837	43.766	44.929	44.894	43.766	41.550	41.320	
DESIGN SURFACE LEVEL	47.410		46.304		46.104		45.386		44.385		43.400	45.348		45.386		45.377	45.386		45.923	45.871		46.104		46.234	46.304		46.244	46.304		44.250	43.900	
SETOUT COORDINATES	E9003.966 N31321.546		E9069.154 N31379.765		E9080.902 N31390.228		E9124.478 N31424.466		E9160.121 N31452.731		E9179.037 N31443.680	E9124.105 N31414.959	E9124.478 N31424.466			E9115.116 N31425.509	E9124.478 N31424.466		E9071.291 N31405.711	E9068.786 N31395.852		E9080.902 N31390.228		E9071.901 N31372.060	E9069.154 N31379.765		E9066.228 N31381.660	E9069.154 N31379.765		E9171.081 N31422.752	E9172.140 N31440.701	
CHAINAGE	0.000	87.401	87.401	15.732	103.133	55.417	158.550	45.490	204.040	20.969	225.010	0.000	8.888	8.888	10.395	10.395	8.972	8.972	13.358	22.330	0.000	8.212	8.212	0.000	3.503	3.503	0.000	17.980	17.980	



27/06/18

CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
02/05/18	D	AMENDED STRUCTURES FSL'S	KH
23/02/18	C	AMENDED STRUCTURE FSL'S	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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	MM	RPEQ	DATE
CHECKED	JS	KEITH HOWELLS RPEQ 7295	02/05/18
PROJECT MANAGER	JS	SCALE	0 10 20 30m
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/05/18
		SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 11 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C413	D

STRUCTURE NAME	4/229	5/229	1/231	2/231	3/231	24/300	25/300	1/327	2/327	3/327	20/321
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 600mm	HEADWALL	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	HEADWALL	IPWEA MANHOLE 1500mm DIA; EXT 900mm	HEADWALL	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE	IPWEA FIELD INLET (ON GRADE) 900x600 H.D. GRATE	TEMPORARY HEADWALL
PIPE SIZE (mm)	1050		375	375		1650		375	375	375	
PIPE CLASS	2		2	2		2		2	2	2	
PIPE GRADE (%)	1.53%		0.40%	12.68%		0.88%		2.74%	3.70%	2.88%	
PIPE SLOPE (1 in X)	65.24		250.00	7.89		113.17		36.45	27.02	34.73	
FULL PIPE VELOCITY (m/s)	2.35		0.19	0.35		1.47		0.17	0.34	0.51	
PART FULL VELOCITY (m/s)	4.09		0.77	3.14		3.70		1.47	2.01	2.07	
DATUM RL	29.0		29.0			29.0		38.0			
PIPE FLOW (Cumecs)	2.037		0.021	0.039		3.141		0.018	0.037	0.057	
W.S.E. IN STRUCTURE	42.947	41.788	43.169	43.088	41.400	43.223	41.791	53.386	52.820	52.144	
HYDRAULIC GRADE LEVEL	42.856 / 42.350	41.788 / 41.788	43.152	43.088 / 43.075	41.400 / 41.400	43.150	41.791 / 41.791	53.376	52.820 / 52.808	52.144 / 52.121	51.888 / 51.888
DEPTH TO INVERT	2.580 / 2.600	1.800 / 1.800	1.434	1.458 / 1.486	2.200 / 2.200	2.500 D	1.900 / 1.900	1.316	1.303 / 1.323	1.470 / 1.490	1.433 / 1.433
INVERT LEVEL OF DRAIN	41.320 / 41.300	41.200 / 41.200	42.777	42.728 / 42.700	41.200 / 41.200	41.500	41.100 / 41.100	53.001	52.453 / 52.433	51.766 / 51.746	51.483 / 51.483
DESIGN SURFACE LEVEL	43.900	43.000	44.210	44.186	43.400	44.000 D	43.000	54.318	53.756	53.237	52.916
SETOUT COORDINATES	E9172.140 N51440.701	E9178.606 N51441.569	E9164.816 N51465.279	E9171.748 N51455.356	E9179.916 N51446.809	E9196.239 N51494.228	E9190.070 N51449.382	E8885.086 N51749.266	E8905.067 N51748.382	E8923.050 N51747.586	E8931.969 N51745.547
CHAINAGE	17.980 / 6.524 / 24.504		0.000 / 12.183 / 12.183 / 11.831 / 24.014			0.000 / 45.268 / 45.268		0.000 / 20.000 / 20.000 / 18.009 / 38.009 / 9.149 / 47.157			

FUTURE

SAND BAG AND SEAL TEMPORARY END

SEWER TRUNK 375mm IL 40.455

SEWER TRUNK 375mm IL 40.334

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	D	AMENDED LEVELS FOR 24/300	KH
02/05/18	C	ADDED STRUCTURE FSL AND SETOUT COORDINATES	KH
12/01/18	B	AMENDED DRAINAGE LINES	KH
12/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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WEB: www.premise.com.au

DESIGNED	MM	RPEQ	DATE
CHECKED	JS		22/06/18
PROJECT MANAGER	JS	KEITH HOWELLS RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	22/06/18	0 10 20 30m	
		SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 12 OF 14

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C414	D

DRAWING DELETED FROM SET

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

BRISBANE OFFICE
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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	06/10/17

RPEQ KEITH HOWELLS RPEQ 7295 DATE 06/10/17

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	---DRAWING DELETED FROM SET---

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C415	A

DRAWING DELETED FROM SET

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
06/10/17	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	06/10/17

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 06/10/17

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	---DRAWING DELETED FROM SET---

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C416	A

LOCATION			TIME			SUB-CATCH. RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES											PART FULL		DESIGN LEVELS							
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha		l/s	m	%	mm		m/s	min					m		m		m			m	m/s	m	m	m	m	m	m	
2/001	3/001	1/001 1/002 2/001	6	122	0.75	0.196	0.147	50	81	3.033	0.083	1.27	169	73	8	3/001	6.26	121	0.55	0	177	44.832	0.3	525	2	0.82	0.69	33 34	0.41	1	1.61	0.034	1.85	0.063		0.063	0.17	0.076	0.34	1.19	64.963	64.829	65.219	65.143	65.282	66.185	2/001
3/001	4/001	1/001 1/002 2/001 3/001	6	122	0.75	0.166	0.124	42	50	2.989	0.082	0.52	109	50	0	5/001	6.95	118	0.674	0	221	9.631	0.3	525	2	1.02	0.15	37 42 43	0.22	1	1.64	0.053	1.55	0.083	1.63	0.087	0.26	0.026	0.405	1.24	64.809	64.78	65.06	65.034	65.147	65.923	3/001
4/001	5/001	1/001 1/002 2/001 3/001 4/001	6	122	0.75	0.13	0.098	33	33	2.575	0.072	0.52	107	33	0	1/007	7.1	118	0.772	0	252	16.195	0.3	600	2	0.89	0.23	37 42 43	0.13	0.88	1.43	0.041	1	0.041	1.03	0.042	0.17	0.027	0.387	1.31	64.78	64.731	64.994	64.966	65.035	65.895	4/001
5/001	6/001	1/001 1/002 2/001 3/001 4/001 5/001	6	122	0.75	0.167	0.125	42	268	1.161	0.047	0.91	68	156	112	1/008	7.33	116	0.897	0	403	5.773	0.3	600	2	1.43	0.08	42 46 43 47	0.38	1	1.5	0.104	2.22	0.23	2.62	0.272	0.43	0.025	0.6	1.43	64.711	64.693	64.736	64.711	65.008	65.8	5/001
6/001	7/001	1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.26	117	1.883	0	498	53.061	5.27	600	2	1.76	0.18	33 34	0	1	1.06	0.158	0.24	0.038		0.038	5.23	2.774	0.246	4.56	64.673	61.878	64.673	61.899	64.711	65.762	6/001
7/001	8/001	1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.43	116	2.059	0	542	13.196	3.5	600	2	1.92	0.05	33 34	0	1	1.07	0.187	0.22	0.042		0.042	4.7	0.507	0.29	4	61.858	61.396	61.858	61.237	61.899	63.186	7/001
8/001	9/001	1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.49	116	4.47	0	1383	54.058	4.5	825	2	2.59	0.16	42 46 43 47	0	1	1.88	0.341	1.81	0.617	2.13	0.726	5.29	1.715	0.39	5.56	60.621	58.188	60.621	57.762	61.346	62.4	8/001
9/001	10/001	1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.65	115	4.599	0	1412	45.454	4.5	825	2	2.64	0.13	33 34	0	1	1.09	0.356	0.21	0.074		0.074	4.36	1.983	0.395	5.59	57.688	55.643	57.688	55.705	57.762	59.182	9/001
10/001	11/001	1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.78	114	4.887	0	1514	34.808	3.25	900	2	2.38	0.11	33 34	0	1	1.07	0.289	0.22	0.063		0.063	3.13	1.091	0.431	5.04	55.643	54.51	55.643	54.552	55.705	56.717	10/001
11/001	12/001	1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.89	114	5.018	0	1546	16.68	4.5	900	2	2.43	0.05	33 34	0	1	1.07	0.301	0.21	0.062		0.062	4.61	0.766	0.397	5.71	54.49	53.739	54.49	53.72	54.552	55.53	11/001
12/001	13/001	1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															7.94	113	6.193	0	1937	57.941	2.26	1200	2	1.71	0.19	33 34	0	1	1.03	0.15	0.26	0.038		0.038	2.25	1.302	0.475	4.65	53.682	52.37	53.682	52.38	53.72	55.025	12/001
13/001	14/001	1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															8.12	113	6.333	0	1980	16.559	1	1350	2	1.38	0.07	33 34	0	0.97	1.01	0.098	0.1	0.01		0.01	0.5	0.083	0.569	3.45	52.37	52.204	52.37	52.287	52.38	53.763	13/001
14/001	15/001	1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															8.2	112	6.748	0	2096	37.576	0.8	1500	2	1.19	0.17	42 46 43 47				0.072	1.15	0.083	1.32	0.095	0.73	0.276	0.595	3.21	52.204	51.904	52.204	51.929	52.299	54.054	14/001
15/001	16/001	1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															8.37	112	6.908	0	2133	44.699	0.5	1500	2	1.21	0.26	34 37	0	1	1.03	0.074	0.61	0.045		0.045	0.41	0.185	0.684	2.72	51.884	51.66	51.884	51.699	51.929	53.791	15/001
16/001	17/001	1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001															8.64	110	9.95	0	3046	73.971	0.5	1500	2	1.72	0.44	34 37	0	1	1.04	0.152	0.39	0.058		0.058	0.47	0.351	0.846	2.97	51.64	51.27	51.64	51.289	51.699	53.626	16/001

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MM	RPEQ	DATE 23/02/18
CHECKED	JS		
PROJECT MANAGER	JS	KEITH HOWELLS RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18	SCALE

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 1 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C417	B

LOCATION			TIME			SUB-CATCH. RUNOFF				INLET DESIGN							DRAIN DESIGN										HEADLOSSES											PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS				V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m	%	m	m	m/s	m	m	m	m	m	m	
17/001	18/001	1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.01	109	10.295	0	3073	78.65	1.4	1500	2	1.74	0.28	33 34	0	1	1.03	0.154	0.25	0.039		0.039	1.38	1.082	0.629	4.37	51.25	50.15	51.25	50.168	51.289	52.414	17/001
18/001	19/001	1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.29	108	10.73	0	3208	46.968	2.2	1500	2	1.82	0.13	33 34	0	1	1.03	0.168	0.23	0.039		0.039	3.33	1.372	0.569	5.21	50.13	49.096	50.13	48.564	50.168	51.678	18/001
19/001	20/001	1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.42	107	10.879	0	3232	38.083	2.2	1500	2	1.83	0.11	33 34	0	1	1.02	0.171	0.22	0.037		0.037	4.2	1.061	0.572	5.23	48.527	47.689	48.527	46.929	48.564	50.395	19/001
20/001	21/001	1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.48	107	10.992	0	3263	39.156	2.2	1500	2	1.85	0.11	33 34	0	1	1.03	0.174	0.23	0.039		0.039	3.42	1.184	0.575	5.24	46.889	46.027	46.889	45.55	46.929	48.806	20/001
21/001	22/001	1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.27	108	21.194	0	6324	49.045	2.2	(2x)1500	2	1.79	0.14	37	0	1	1.08	0.163	0.75	0.122		0.122	2.57	1.235	0.565	5.19	45.427	44.348	45.427	44.167	45.55	47.147	21/001

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE 23/02/18
SCALE		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 2 OF 5
JOB CODE	MIR001-01
SHEET NUMBER	C418
REV	B

LOCATION			TIME			SUB-CATCH. RUNOFF				INLET DESIGN							DRAIN DESIGN										HEADLOSSES												PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha		l/s	m	%	mm		m/s	min					m		m				m	m/s	m	m	m	m	m	m	
22/001	23/001	1/050 1/051 1/052 1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001																9.37	108	21.567	0	6413	41.164	2.19	(2x)1500	2	1.81	0.12	42 46 43 47	0	1	1.2	0.168	1.59	0.267	1.74	0.293	1.95	0.801	0.57	5.2	43.9	43	43.9	43.099	44.193	45.353	22/001
23/001	24/001	1/050 1/051 1/052 1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001 23/001	11.5	100	0.6	3.508	2.113	588	588		0.7		0	0	588	LOST	9.69	106	23.502	0	6318	33.419	0.5	(2x)1650	2	1.48	0.18	42 46 43 47	0	0.91	1.14	0.111	1.63	0.182	2.05	0.228	3	0.654	0.815	3	42.917	42.75	42.917	41.915	43.145	43.8	23/001
24/001																																									41.915	42.95	24/001
1/003	2/003	1/005 1/003	6	122	0.75	0.024	0.018	6	6	2.168	0.017	1	78	6	0	1/005	6.18	121	0.04	0	13	22.8	0.67	375	2	0.12	0.29	46 47	0.46	1	1.01	0.001	2.28	0.002	2.66	0.002	1.98	0.417	0.077	0.81	69.949	69.796	69.949	69.499	69.951	71.26	1/003
2/003	3/003	1/005 1/003 2/003	6	122	0.75	0.075	0.056	19	19	0.997	0.03	1	5	19	0	5/003	6.48	120	0.096	0	32	12.375	7.56	375	2	0.29	0.05	32 46 47	0.59	1	1.04	0.004	3.11	0.013	3.41	0.015	7.56	0.936	0.065	2.47	68.333	67.397	68.333	67.397	68.348	70.67	2/003
3/003	4/003	1A/004 1/005 1/003 2/003															6.97	118	0.946	0	22	19	1	750	2	0.05	0.13	37	0	1	1	0	0.75	0		0	3.97	0.751	0.074	1	67.397	67.207	67.397	66.643	67.397	69.985	3/003
4/003	5/003	1A/004 1/005 1/003 2/003															7.1	118	0.946	0	21	16.5	5.5	750	2	0.05	0.05	33	0	1	1	0	0.2	0		0	6.67	1.1	0.047	1.77	66.643	65.736	66.643	65.543	66.643	68.2	4/003
5/003	6/003	1A/004 1/005 1/003 2/003 5/003	6	122	0.75	0.064	0.048	16	305		0.1		79	79	226	5/001	7.14	117	0.994	0	98	13.614	2.5	525	2	0.45	0.07	32 33	0.79	1	1.1	0.011	4.94	0.052		0.052	2.57	0.349	0.135	2.24	65.491	65.15	65.491	65.141	65.543	66.3	5/003
6/003	6/001	1A/004 1/005 1/003 2/003 5/003															7.21	117	0.994	0	97	10.395	4.38	525	2	0.45	0.04	37 42 43	0	1	1.02	0.01	1.05	0.011	1.09	0.011	4.03	0.419	0.117	2.72	65.13	64.675	65.13	64.711	65.142	66.306	6/003
6/001																																								64.711	65.762	6/001
1A/004	1/004	1A/004	6	122	0.75	1.136	0.85	288	288		0.25		0	0	288	5/003	6	122	0.85	0	0	3.524	0.3	750	2	0	0.04					0	0	0	0	0	0	0	0	68.076	68.065	67.397	67.397	67.397	68.55	1A/004
1/004	3/003	1A/004															6.04	122	0.85	0	0	76.832	0.3	750	2	0	0.93					0	0	0	0	0	0	0	0	68.045	67.815	67.397	67.397	67.397	68.57	1/004
3/003																																								67.397	69.985	3/003
1/005	1/003	1/005	6	122	0.75	0.029	0.021	7	7	1.067	0.021	1	0	7	0	1A/004	6	122	0.021	0	7	17.486	1	375	2	0.07	0.18	32	1		1	0	7	0.002		0.002	1.1	0.193	0.052	0.78	70.144	69.969	70.144	69.951	70.145	70.92	1/005
1/003																																								69.951	71.26	1/003
1/006	2/006	1/006	6	122	0.75	0.058	0.043	15	15	2.366	0.023	1	959	15	0	LOST	6	122	0.043	0	15	13.909	0.5	375	4	0.13	0.21	32	1		1.02	0.001	7	0.006		0.006	0.54	0.075	0.087	0.75	69.595	69.525	69.595	69.52	69.601	70.14	1/006
2/006																																								69.52	69.73	2/006
1/007	7/001	1/007	6	122	0.75	0.235	0.176	60	60	2.577	0.053	7	83	51	8	1/010	6	122	0.176	0	51	4.381	1.01	375	2	0.46	0.05	32	1		1.28	0.011	9.7	0.106		0.106	6.33	0.195	0.139	1.38	62.297	62.253	62.297	62.017	62.403	63.247	1/007
7/001																																								61.899	63.186	7/001
1/008	8/001	1/008	7	118	0.6	0.181	0.109	36	148	2.689	0.095	5.95	160	103	45	1/020	7	118	0.109	0	103	2.116	1.01	375	2	0.93	0.02	32	1		1.89	0.044	7.57	0.335		0.335	8.88	0.095	0.206	1.65	61.436	61.414	61.436	61.246	61.771	62.377	1/008
8/001																																								61.346	62.4	8/001

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 23/02/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 23/02/18
SCALE

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE Q2 MINOR STORM CALCULATIONS - 3 OF 5

JOB CODE MIR001-01
SHEET NUMBER C419
REV B

LOCATION			TIME			SUB-CATCH. RUNOFF				INLET DESIGN							DRAIN DESIGN										HEADLOSSES											PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m		m	m/s	m	m	m	m	m	m	
8/009	9/009	1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012															7.22	117	2.117	0	663	59.511	1.91	750	2	1.5	0.28	33 34	0	1	1.03	0.115	0.21	0.025		0.025	1.87	1.112	0.344	3.35	62.443	61.305	62.443	61.331	62.468	63.497	8/009
9/009	8/001	1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012															7.51	115	2.308	0	742	13.211	5.03	825	2	1.39	0.04	33 34	0	1	1.03	0.098	0.27	0.026		0.026	0.51	0.068	0.269	4.89	61.305	60.641	61.305	61.237	61.331	62.296	9/009
8/001																																											61.346	62.4	8/001
1/010	9/009	1/010	6	122	0.75	0.213	0.159	54	80		0.029	1.66	375	80	0	1/011	6	122	0.159	0	80	2.418	1	375	2	0.73	0.03	32	1		1.72	0.027	8.52	0.229		0.229	0.21	0.005	0.178	1.55	61.296	61.272	61.336	61.331	61.566	62.248	1/010
9/009																																											61.331	62.296	9/009
1/011	9/009	1/011	6	122	0.75	0.042	0.032	11	11	1.271	0.042	1.78	200	11	0	1/019	6	122	0.032	0	11	6.263	1.01	375	2	0.1	0.07	32	1		1.01	0	9.7	0.005		0.005	0.16	0.01	0.063	0.88	61.341	61.278	61.341	61.331	61.346	62.282	1/011
9/009																																											61.331	62.296	9/009
1/019	9/001	1/019	6	122	0.75	0.172	0.129	44	44	1.786	0.053	5.95	160	42	1	1/021	6	122	0.129	0	42	3.838	1	375	2	0.38	0.04	32	1		1.19	0.007	9.7	0.072		0.072	7.48	0.209	0.125	1.31	58.237	58.198	58.237	57.948	58.309	59.177	1/019
9/001																																											57.762	59.182	9/001
1/020	10/001	1/020	7.5	116	0.6	0.285	0.172	55	100	2.427	0.089	4.31	139	73	27	1/023	7.5	116	0.172	0	73	2.1	1.01	375	2	0.66	0.02	32	1		1.56	0.022	9.38	0.21		0.21	1.67	0.035	0.169	1.52	55.741	55.719	55.741	55.705	55.95	56.682	1/020
10/001																																											55.705	56.717	10/001
1/021	10/001	1/021	6	122	0.75	0.156	0.117	40	41	1.83	0.055	4.37	143	41	0	1/022	6	122	0.117	0	41	3.827	1	375	2	0.37	0.04	32	1		1.18	0.007	9.7	0.067		0.067	1.28	0.049	0.123	1.29	55.754	55.716	55.754	55.705	55.821	56.695	1/021
10/001																																											55.705	56.717	10/001
1/022	11/001	1/022	6	122	0.75	0.175	0.131	44	45	2.034	0.06	3.03	119	43	2	1/024A	6	122	0.131	0	43	3.768	1	375	2	0.39	0.04	32	1		1.22	0.008	9.7	0.075		0.075	0.06	0.002	0.126	1.31	54.546	54.508	54.554	54.552	54.629	55.486	1/022
11/001																																											54.552	55.53	11/001
1/023	12/001	1/023	7	118	0.6	0.144	0.086	28	55	2.037	0.079	3.03	116	50	5	1/026	7	118	0.086	0	50	2.233	1.02	375	2	0.46	0.02	32	1		1.27	0.011	9.7	0.103		0.103	11.41	0.175	0.138	1.37	54.054	54.031	54.054	53.793	54.156	54.995	1/023
12/001																																											53.72	55.025	12/001
5/024	6/024	1/025 1/024 2/024 3/024 4/024 1/024C 1/024D															6.57	120	1.005	0	334	33.694	1.44	750	2	0.76	0.19	33 34	0	1	1.01	0.029	0.24	0.007		0.007	1.43	0.481	0.256	2.51	54.302	53.817	54.302	53.821	54.309	55.338	5/024
6/024	12/001	1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D															6.76	119	1.087	0	361	13.578	1	900	2	0.57	0.08	33 34	0	1	1	0.016	0.22	0.004		0.004	0.72	0.097	0.273	2.22	53.817	53.682	53.817	53.72	53.821	54.839	6/024
12/001																																											53.72	55.025	12/001
1/024A	6/024	1/024A	6	122	0.75	0.041	0.031	10	12		0	0.83	375	12	0	1/024B	6	122	0.031	0	12	5.581	0.3	450	2	0.08	0.09	32	1		1.01	0	9.7	0.003		0.003	0.24	0.013	0.086	0.59	53.834	53.817	53.834	53.821	53.837	54.79	1/024A
6/024																																											53.821	54.839	6/024
1/024B	6/024	1/024B	6	122	0.75	0.068	0.051	17	17	1.809	0.055	0.83	136	17	0	1/027	6	122	0.051	0	17	3.007	1.54	375	2	0.16	0.03	32	1		1.03	0.001	9.7	0.012		0.012	1.38	0.043	0.072	1.16	53.864	53.817	53.864	53.821	53.876	54.804	1/024B
6/024																																											53.821	54.839	6/024
1/026	13/001	1/026	7	118	0.6	0.234	0.141	46	51		0.003	0.39	360	51	0	1/029	7	118	0.141	0	51	2.085	1.01	375	2	0.46	0.02	32	1		1.28	0.011	9.7	0.107		0.107	12.25	0.171	0.139	1.38	52.762	52.741	52.762	52.505	52.869	53.703	1/026
13/001																																											52.38	53.763	13/001
1/027	13/001		0	0		0	0	0	7		0	0.39	375	7	0	LOST	1	180	0	0	7	3.72	1	375	2	0.07	0.04	32	1		1.01	0	9.7	0.002		0.002	9.67	0.329	0.052	0.78	52.76	52.723	52.76	52.4	52.762	53.7	1/027
13/001																																											52.38	53.763	13/001
1/028	2/028	1/028	6	122	0.75	0.24	0.18	61	61	2.819	0.078	1.1	542	61	0	1/030	6	122	0.18	0	61	11.166	0.4	375	2	0.55	0.19	32	1		1.55	0.015	9.41	0.144		0.144	0.12	0.013	0.198	1.03	53.203	53.159	53.267	53.254	53.411	54.144	1/028
2/028	14/001	1/028 2/028	6	122	0.75	0.314	0.235	80	80	3.113	0.085	1.07	247	72	7	1/027	6.19	121	0.414	0	132	15.638	6.1	450	2	0.83	0.06	32 46 47	0.54	0.83	1.24	0.035	2.7	0.095	3.07	0.108	5.58	0.872	0.132	3.39	53.159	52.204	53.159	52.287	53.266	54.157	2/028
14/001																																											52.299	54.054	14/001
1/029	15/001	1/029	7	118	0.6	0.126	0.076	25	25		0	0.66	360	25	0	1/030	7	118	0.076	0	25	7.475	1.01	375	2	0.22	0.08	32	1		1.07	0.003	9.7	0.025		0.025	4.7	0.294	0.095	1.12	52.733	52.657	52.733	52.378	52.758	53.666	1/029

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MM	RPEQ	DATE 23/02/18
CHECKED	JS	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 4 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C420	B

LOCATION			TIME			SUB-CATCH. RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES										PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	FLOW WIDTH	FLOW DEPTH	ROAD GRADE AT INLET	HALF ROAD CAPACITY	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	m	m	%	l/s	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m	%	m	m	m/s	m	m	m	m	m	m	
15/001																																													51.929	53.791	15/001
1/030	15/001	1/030	6	122	0.75	0.113	0.085	29	29		0	0.66	360	29	0	23/001	6	122	0.085	0	29	7.511	1.01	375	2	0.26	0.08	32	1		1.09	0.004	9.7	0.034		0.034	4.59	0.281	0.103	1.17	52.671	52.595	52.671	52.323	52.705	53.613	1/030
15/001																																												51.929	53.791	15/001
1/031	16/001	1/031	6	122	0.75	0.16	0.119	40	43	2.5	0.056	2.51	373	43	0	1/043	6	122	0.119	0	43	3.686	1	375	2	0.39	0.04	32	1		1.2	0.008	9.7	0.074		0.074	7.74	0.206	0.126	1.31	52.621	52.584	52.621	52.335	52.695	53.567	1/031
16/001																																												51.699	53.626	16/001
1/032	2/032	1/032	6	122	0.75	0.097	0.073	25	25	1.156	0.057	5	1777	25	0	1/041	6	122	0.073	0	25	17.562	2.06	375	2	0.22	0.13	32	1		1.05	0.003	7	0.018		0.018	3.74	0.554	0.079	1.45	67.574	67.212	67.574	66.916	67.592	68.53	1/032
2/032	3/032	1/032 2/032	6	122	0.75	0.097	0.073	25	25	1.18	0.058	5	6246	25	0	3/032	6.13	121	0.145	0	49	52.366	4.15	375	2	0.44	0.27	46 47	0.5	1	1.07	0.01	2.29	0.023	2.66	0.027	4.12	2.157	0.094	2.27	66.419	64.243	66.419	64.261	66.446	68.154	2/032
3/032	4/032	1/041 1/032 2/032 3/032	6	122	0.75	0.059	0.044	15	15	0.846	0.05	5	4691	15	0	4/032	6.4	120	0.274	0	92	58.677	5.7	375	2	0.83	0.26	34 37	0.16	1	1.1	0.035	1.08	0.038		0.038	5.64	3.31	0.119	3.04	64.223	60.878	64.223	60.913	64.261	65.183	3/032
4/032	5/032	1/040 1/041 1/032 2/032 3/032 4/032	6	122	0.75	0.063	0.047	16	16	0.918	0.052	5.26	362	16	0	5/032	6.53	120	0.376	0	125	71.899	4.35	375	2	1.13	0.36	33 34	0.13	1	1.15	0.066	0.85	0.056		0.056	4.16	2.989	0.151	3	60.858	57.733	60.858	57.869	60.913	61.9	4/032
5/032	6/032	1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032	6	122	0.75	0.077	0.057	19	19	1.091	0.057	4.23	367	19	0	6/032	6.89	118	0.67	0	203	63.26	4.11	375	2	1.84	0.33	34 37	0.09	1	1.41	0.173	0.9	0.155		0.155	3.97	2.512	0.203	3.33	57.713	55.111	57.713	55.201	57.869	58.724	5/032
6/032	7/032	1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032	6	122	0.75	0.068	0.051	17	17	1.066	0.055	3.86	308	17	0	7/032	7.05	118	0.906	0	281	35.943	3.09	450	2	1.77	0.19	34	0.06	1	1.2	0.16	0.57	0.09		0.09	3.67	0.942	0.241	3.24	55.111	54.002	55.111	53.793	55.201	56.077	6/032
7/032	8/032	1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032	6	122	0.75	0.038	0.028	10	10	0.781	0.048	2.9	270	10	0	1/029	7.02	118	1.09	0	357	35.341	1.36	600	2	1.26	0.23	46 47	0.03	0.98	1.36	0.081	2.1	0.171	2.66	0.217	0.71	0.252	0.3	2.53	53.158	52.678	53.158	52.906	53.375	54.875	7/032
8/032	16/001	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032															7.26	117	2.889	0	934	31.144	2.25	750	2	2.11	0.14	37 42 43	0	1	1.31	0.228	1	0.228	1.03	0.235	3.14	0.687	0.401	3.89	52.678	51.977	52.678	51.699	52.913	54.482	8/032
16/001																																												51.699	53.626	16/001
7/033	8/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033	6	122	0.75	0.02	0.015	5	5	1.022	0.028	3.54	4224	5	0	8/033	6.87	119	1.394	0	459	43.618	3.98	600	2	1.62	0.17	33 34	0.01	1	1.07	0.134	0.31	0.041		0.041	3.92	1.711	0.254	4.02	56.755	55.019	56.755	55.044	56.797	57.717	7/033
8/033	9/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033	6	122	0.75	0.046	0.034	12	12	1.1	0.038	3	4315	12	0	9/033	7.04	118	1.428	0	467	9.584	4.53	600	2	1.65	0.03	33 34	0.02	1	1.08	0.139	0.33	0.046		0.046	2.27	0.218	0.248	4.23	54.999	54.564	54.999	54.781	55.044	56.083	8/033
9/033	10/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033	6	122	0.75	0.242	0.181	61	61	2.057	0.062	5.04	556	53	9	11/033	7	118	1.605	0	517	18.969	3.89	600	2	1.83	0.07	42 46 43 47				0.171	1.38	0.237	1.58	0.269	3.74	0.711	0.274	4.11	54.544	53.807	54.544	53.833	54.814	55.553	9/033
10/033	11/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033	6	122	0.75	0.215	0.161	55	55	2.069	0.06	4.76	693	52	2	1/031	7.08	118	1.766	0	566	16.738	0.93	600	2	2	0.13	46 47				0.204	1.71	0.35	2.17	0.443	0.85	0.142	0.469	2.39	53.091	52.935	53.483	53.341	53.926	54.748	10/033
11/033	8/032	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033	6	122	0.75	0.044	0.033	11	20		0	1.09	375	20	0	1/031	7.21	117	1.798	0	582	10.36	2.29	600	2	2.06	0.05	42 46 43 47				0.216	1.58	0.342	1.94	0.42	0.9	0.093	0.344	3.47	52.915	52.678	52.999	52.906	53.419	54.6	11/033
8/032																																												52.913	54.482	8/032
1/037	7/032	1/037	6	122	0.75	0.221	0.165	56	71	2.264	0.085	3	271	71	0	1/031	6	122	0.165	0	71	13.564	1	375	2	0.64	0.14	32	1		1.53	0.021	9.51	0.201		0.201	2.54	0.251	0.166	1.5	54.04	53.904	54.04	53.695	54.24	54.981	1/037
7/032																																												53.375	54.875	7/032
1/038	6/032	1/038	6	122	0.75	0.253	0.189	64	81	2.26	0.085	3.96	321	66	15	1/037	6	122	0.189	0	66	13.33	1	375	2	0.6	0.14	32	1		1.47	0.018	9.7	0.178		0.178	0.25	0.034	0.16	1.48	55.235	55.102	55.235	55.201	55.413	56.177	1/038
6/032																																												55.201	56.077	6/032
1/039	5/032	1/039	6	122	0.75	0.317	0.237	80	80	2.168	0.084	4.34	372	63	17	1/038	6	122	0.237	0	63	13.217	1	375	2	0.57	0.14	32	1		1.49	0.017	9.7	0.162		0.162	0.13	0.017	0.156	1.46	57.866	57.733	57.886	57.869	58.048	58.807	1/039
5/032																																												57.869	58.724	5/032
1/040	4/032	1/040	6	122	0.75	0.075	0.056	19	19	1.002	0.054	5.42	424	19	0	1/039	6	122	0.056	0	19	13.286	1	375	2	0.17	0.14	32	1		1.04	0.002	9.7	0.015		0.015	1.27	0.169	0.083	1.04	61.083	60.95	61.083	60.913	61.097	62.024	1/040
4/032																																												60.913	61.9	4/032
1/041	3/032	1/041	6	122	0.75	0.113	0.085	29	29	1.366	0.059	5	4979	29	0	1/040	6	122	0.085	0	29	13.9	2.01	375	2	0.26	0.1	32	1		1.06	0.003	7	0.024		0.024	1.87	0.261	0.086	1.5	64.522	64.243	64.522	64.261	64.546	65.477	1/041
3/032																																												64.261	65.183	3/032
1/042	17/001	1/042	6	122	0.75	0.11	0.083	28	28	1.787	0.074	1.33	272	28	0	1/044	6	122	0.083	0	28	14.333	1.7	375	2	0.25	0.12	32	1		1.06	0.003	7	0.023		0.023	1.75	0.251	0.089	1.4	51.54	51.296	51.54	51.289	51.563	52.521	1/042

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE 23/02/18
SCALE		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 5 OF 5
JOB CODE	MIR001-01
SHEET NUMBER	C421
REV	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS				V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m	%	m	m	m/s	m	m	m	m	m	m	l/s	l/s	
2/001	3/001	1/001 1/002 2/001	6	275	1	0.196	0.196	150	205	1.27	114	91	3/001	6.26	272	0.735	0	257	44.832	0.3	525	2	1.19	0.69	34 37	0.43	1	3.2	0.072	1.36	0.098		0.098	0.36	0.16	0.525	1.19	64.963	64.829	66.02	65.86	66.118	66.185	1904	205	2/001
3/001	4/001	1/001 1/002 2/001 3/001	6	275	1	0.166	0.166	127	218	0.52	130	88	5/001	6.95	264	0.901	0	365	9.631	0.3	525	2	1.69	0.15	37 42 43	0.34	1	3.01	0.145	1.37	0.199	1.39	0.201	0.72	0.07	0.525	1.69	64.809	64.78	65.661	65.59	65.862	65.923	1787	218	3/001
4/001	5/001	1/001 1/002 2/001 3/001 4/001	6	275	1	0.13	0.13	100	127	0.52	104	23	1/007	7.1	262	1.032	0	460	16.195	0.3	600	2	1.63	0.23	37 42 43	0.22	0.88	2.35	0.135	1.09	0.147	1.1	0.149	0.56	0.091	0.6	1.63	64.78	64.731	65.443	65.352	65.592	65.895	1787	127	4/001
5/001	6/001	1/001 1/002 2/001 3/001 4/001 5/001	6	275	1	0.167	0.167	128	1054	0.91	220	834	1/008	7.33	259	1.199	0	665	5.773	0.3	600	2	2.35	0.08	42 46 43 47	0.32	1	2.24	0.283	1.84	0.519	2.2	0.622	1.17	0.068	0.6	2.35	64.711	64.693	64.832	64.764	65.454	65.8	1968	105 4	5/001
6/001	7/001	1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.26	260	2.516	0	782	53.061	5.27	600	2	2.77	0.18	33 34	0	1	1.15	0.39	0.23	0.091		0.091	4.24	2.248	0.319	5.11	64.673	61.878	64.673	62.426	64.764	65.762	0		6/001
7/001	8/001	1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.43	258	2.751	0	872	13.196	3.5	600	2	3.08	0.05	33 34	0	1	1.95	0.485	0.23	0.112		0.112	2.02	0.266	0.391	4.47	61.858	61.396	62.313	62.047	62.426	63.186	0		7/001
8/001	9/001	1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.49	258	5.98	0	2482	54.058	4.5	825	2	4.64	0.16	42 46 43 47	0	1	3	0.949	1.5	1.427	1.74	1.65	4.91	2.055	0.566	6.35	60.621	58.188	60.621	57.966	62.271	62.4	0		8/001
9/001	10/001	1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.65	256	6.152	0	2650	45.454	4.5	825	2	4.96	0.13	33 34	0	1	1.34	1.254	0.22	0.278		0.278	3.47	1.578	0.595	6.42	57.688	55.643	57.688	56.11	57.966	59.182	0		9/001
10/001	11/001	1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.78	254	6.546	0	2797	34.808	3.25	900	2	4.4	0.11	33 34	0	1	1.52	0.987	0.21	0.212		0.212	2.39	0.83	0.641	5.77	55.643	54.51	55.898	55.068	56.11	56.717	0		10/001
11/001	12/001	1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.89	253	6.721	0	2810	16.68	4.5	900	2	4.42	0.05	33 34	0	1	1.64	0.995	0.2	0.203		0.203	2.41	0.401	0.572	6.59	54.49	53.739	54.865	54.463	55.068	55.53	0		11/001
12/001	13/001	1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													7.94	253	8.296	0	3860	57.941	2.26	1200	2	3.41	0.19	34 37	0	1	1.65	0.594	0.31	0.186		0.186	0.98	0.567	0.71	5.54	53.682	52.37	54.277	53.71	54.463	55.025	0		12/001
13/001	14/001	1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													8.12	251	8.492	0	4544	16.559	1	1350	2	3.17	0.07	34 37	0	0.97	1.99	0.514	0.25	0.131		0.131	0.72	0.12	0.957	4.19	52.37	52.204	53.579	53.459	53.71	53.763	0		13/001
14/001	15/001	1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													8.2	250	9.046	0	4742	37.576	0.8	1500	2	2.68	0.17	42 46 43 47				0.367	1.15	0.423	1.32	0.485	0.45	0.169	0.969	3.93	52.204	51.904	53.037	52.868	53.522	54.054	0		14/001
15/001	16/001	1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													8.37	248	9.265	0	5105	44.699	0.5	1500	2	2.89	0.26	34 37	0	1	1.66	0.426	0.67	0.285		0.285	0.52	0.233	1.26	3.22	51.884	51.66	52.582	52.349	52.868	53.791	0		15/001
16/001	17/001	1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													8.57	246	13.299	0	6491	73.971	0.5	1500	2	3.67	0.44	34 37	0	1	1.47	0.688	0.43	0.295		0.295	0.84	0.623	1.5	3.67	51.64	51.27	52.054	51.431	52.349	53.626	0		16/001
17/001	18/001	1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													8.96	242	13.765	0	6591	78.65	1.4	1500	2	3.73	0.28	33 34	0	1	1.12	0.71	0.25	0.18		0.18	1.19	0.937	1.004	5.24	51.25	50.15	51.25	50.313	51.431	52.414	0		17/001
18/001	19/001	1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													9.29	239	14.372	0	6927	46.968	2.2	1500	2	3.92	0.13	33 34	0	1	1.12	0.784	0.23	0.184		0.184	3.03	0.965	0.89	6.34	50.13	49.096	50.13	48.708	50.313	51.678	0		18/001

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	RPEQ	DATE 23/02/18
CHECKED	JS		KEITH HOWELLS RPEQ 7295
PROJECT MANAGER	JS	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 1 OF 5

JOB CODE	MIR001-01
SHEET NUMBER	C422
REV	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m		m		m	%	m	m	m/s	m	m	m	m	m	m	l/s	l/s	
19/001	20/001	1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													9.37	239	14.545	0	7065	38.083	2.2	1500	2	4	0.11	33 34	0	1	1.12	0.815	0.22	0.181		0.181	3.77	0.183	0.902	6.37	48.527	47.689	48.527	47.091	48.708	50.395	0		19/001
20/001	21/001	1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													9.48	238	14.722	0	7285	39.156	2.2	1500	2	4.12	0.11	33 34	0	1	1.13	0.867	0.23	0.201		0.201	1.42	0.557	0.92	6.41	46.889	46.027	46.889	46.333	47.09	48.806	0		20/001
21/001	22/001	1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													9.25	240	28.388	0	1433 3	49.045	2.2	(2x)1500	2	4.06	0.14	37	0	1	1.61	0.839	0.77	0.648		0.651	1.03	0.504	0.91	6.39	45.427	44.348	45.684	45.18	46.335	47.147	0		21/001
22/001	23/001	1/050 1/051 1/052 1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001													9.37	239	28.91	0	1472 2	41.164	2.19	(2x)1500	2	4.17	0.12	42 46 43 47	0	1	1.9	0.679	1.45	0.988	1.57	1.064	0.83	0.342	0.928	6.41	43.9	43	44.193	43.851	45.257	45.353	0		22/001
23/001	24/001	1/050 1/051 1/052 1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134 1/048 1/049 1/047 1/044 1/045 2/045 1/042 1/043 1/031 1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032 1/029 1/030 1/028 2/028 1/026 1/023 1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D 1/022 1/020 1/021 1/019 1/008 1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012 1/007 1A/004 1/005 1/003 2/003 5/003 1/001 1/002 2/001 3/001 4/001 5/001 23/001	11.5	221	0.84	3.508	2.947	1809	6357		0	6357	LOST	9.69	236	31.603	0	1444 2	33.419	0.5	(2x)1650	2	3.38	0.18	42 46 43 47	0	0.91	1.7	0.582	1.6	0.934	1.97	1.148	1.37	0.291	1.65	3.38	42.917	42.75	42.917	42.459	44.065	43.8	7	6357	23/001

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
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DESIGNED	MM	RPEQ	DATE 23/02/18
CHECKED	JS		
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	JOSHUA STONE	SCALE	DATE 23/02/18

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 2 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C423	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS				V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m						m	m	m/s	m	m	m	m	m	m	l/s	l/s	
24/001																																					42.459	42.95	0		24/001
1/003	2/003	1/005 1/003	6	275	1	0.024	0.024	19	19	1	19	0	1/005	6.18	273	0.053	0	40	22.8	0.67	375	2	0.36	0.29	46 47	0.46	1	1.05	0.007	2.28	0.015	2.66	0.018	1.72	0.335	0.136	1.12	69.949	69.796	69.949	69.557	69.967	71.26	1929	19	1/003
2/003	3/003	1/005 1/003 2/003	6	275	1	0.075	0.075	57	57	1	57	0	5/003	6.29	271	0.127	0	96	12.375	7.56	375	2	0.87	0.05	32 46 47	0.59	1	1.35	0.039	3.11	0.12	3.42	0.132	7.56	0.935	0.113	3.4	68.333	67.397	68.333	67.398	68.465	70.67	1929	57	2/003
3/003	4/003	1A/004 1/005 1/003 2/003												6.97	263	1.265	0	57	19	1	750	2	0.13	0.13	37	0	1	1	0.001	0.75	0.001		0.001	3.97	0.732	0.115	1.32	67.397	67.207	67.397	66.643	67.398	69.985	0		3/003
4/003	5/003	1A/004 1/005 1/003 2/003												7.1	262	1.265	0	52	16.5	5.5	750	2	0.12	0.05	33	0	1	1	0.001	0.2	0		0	6.66	1.099	0.073	2.34	66.643	65.736	66.643	65.544	66.643	68.2	0		4/003
5/003	6/003	1A/004 1/005 1/003 2/003 5/003	6	275	1	0.064	0.064	49	917		79	838	5/001	7.14	261	1.329	0	127	13.614	2.5	525	2	0.59	0.07	32 33	0.6	1	1.1	0.018	3.06	0.054		0.054	2.52	0.343	0.154	2.4	65.491	65.15	65.491	65.148	65.544	66.3	1	917	5/003
6/003	6/001	1A/004 1/005 1/003 2/003 5/003												7.21	261	1.329	0	124	10.395	4.38	525	2	0.57	0.04	37 42 43	0	1	1.03	0.017	1.05	0.018	1.09	0.018	3.52	0.366	0.132	2.92	65.13	64.675	65.13	64.764	65.148	66.306	0		6/003
1A/004	1/004	1A/004	6	275	1	1.136	1.136	868	868		0	868	5/003	6	275	1.136	0	0	3.524	0.3	750	2	0	0.04					0	0	0		0	0	0	0	0	68.076	68.065	67.398	67.398	67.398	68.55	1	868	1A/004
1/004	3/003	1A/004												6.04	274	1.136	0	0	76.832	0.3	750	2	0	0.93					0	0	0		0	0	0	0	0	68.045	67.815	67.398	67.398	67.398	68.57	0		1/004
1/005	1/003	1/005	6	275	1	0.029	0.029	22	22	1	22	0	1A/004	6	275	0.029	0	22	17.486	1	375	2	0.2	0.18	32	1		1.04	0.002	7	0.014		0.014	1.03	0.179	0.089	1.08	70.144	69.969	70.144	69.964	70.158	70.92	1929	22	1/005
1/006	2/006	1/006	6	275	1	0.058	0.058	44	44	1	44	0	LOST	6	275	0.058	0	44	13.909	0.5	375	4	0.4	0.21	32	1		1.15	0.008	7	0.058		0.058	0.54	0.075	0.155	1.03	69.595	69.525	69.595	69.52	69.652	70.14	1929	44	1/006
2/006																																					69.52	69.73	0		2/006
1/007	7/001	1/007	6	275	1	0.235	0.235	179	202	7	115	87	1/010	6	275	0.235	0	115	4.381	1.01	375	2	1.04	0.05	32	1		2.26	0.055	5.91	0.325		0.325	0.43	0.019	0.221	1.69	62.297	62.253	62.445	62.426	62.769	63.247	1500	202	1/007
1/008	8/001	1/008	7	263	0.84	0.181	0.152	111	945	5.95	152	793	1/020	7	263	0.152	0	152	2.116	1.01	375	2	1.38	0.02	32	1		3.51	0.097	3.25	0.314		0.314	0.75	0.016	0.27	1.79	61.436	61.414	62.063	62.047	62.377	62.377	1586	945	1/008
8/009	9/009	1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012													7.22	261	2.829	0	1375	59.511	1.91	750	2	3.11	0.28	33 34	0	1	2.13	0.494	0.22	0.109		0.109	1.52	0.907	0.553	3.94	62.443	61.305	63.178	62.271	63.287	63.497	0		8/009
9/009	8/001	1/010 1/011 1/014 1/015 2/015 1/016 1/017 2/017 1/018 1/009 2/009 4/009 1/012												7.51	257	3.084	0	1469	13.211	5.03	825	2	2.75	0.04	33 34				0	0	0		0	0	0	0.391	5.89	61.305	60.641	62.271	62.271	62.271	62.296	0		9/009
1/010	9/009	1/010	6	275	1	0.213	0.213	163	1201	1.66	375	826	1/011	6	275	0.213	0	375	2.418	1	375	2	3.4	0.03	32				0	0	0		0	0	0	0.375	3.4	61.296	61.272	62.271	62.271	62.271	62.248	1867	1201	1/010
1/011	9/009	1/011	6	275	1	0.042	0.042	32	510	1.78	-244	754	1/019	6	275	0.042	0	72	6.263	1.01	375	2	0.65	0.07	32				0.021	0	0		0	0.17	0.011	0.167	1.51	61.341	61.278	62.282	62.271	62.282	62.282	4200	510	1/011
1/019	9/001	1/019	6	275	1	0.172	0.172	131	885	5.95	206	679	1/021	6	275	0.172	0	206	3.838	1	375	2	1.87	0.04	32	1		2.9	0.177	4.02	0.713		0.713	2.22	0.057	0.375	1.87	58.237	58.198	58.237	58.151	58.95	59.177	1586	885	1/019
1/020	10/001	1/020	7.5	258	0.84	0.285	0.24	171	964	4.31	87	877	1/023	7.5	258	0.24	0	87	2.1	1.01	375	2	0.79	0.02	32	1		2.43	0.032	5.17	0.164		0.164	0.25	0.005	0.187	1.58	55.741	55.719	56.115	56.11	56.279	56.682	1656	964	1/020
1/021	10/001	1/021	6	275	1	0.156	0.156	119	799	4.37	96	702	1/022	6	275	0.156	0	96	3.827	1	375	2	0.87	0.04	32	1		2.49	0.039	4.94	0.192		0.192	0.3	0.012	0.198	1.62	55.754	55.716	56.121	56.11	56.313	56.695	1656	799	1/021
1/022	11/001	1/022	6	275	1	0.175	0.175	134	836	3.03	45	791	1/024A	6	275	0.175	0	45	3.768	1	375	2	0.41	0.04	32	1		2.51	0.009	4.88	0.042		0.042	0.07	0.003	0.13	1.33	54.546	54.508	55.07	55.068	55.112	55.486	1714	836	1/022
1/023	12/001	1/023	7	263	0.84	0.144	0.121	88	965	3.03	148	817	1/026	7	263	0.121	0	148	2.233	1.02	375	2	1.34	0.02	32	1		3.05	0.092	3.75	0.343		0.343	0.71	0.016	0.264	1.78	54.054	54.031	54.479	54.463	54.823	54.995	1714	965	1/023
5/024	6/024	1/025 1/024 2/024 3/024 4/024 1/024C 1/024D												6.57	268	1.343	0	754	33.694	1.44	750	2	1.71	0.19	34 37	0	1	1.57	0.149	0.3	0.045		0.045	0.46	0.154	0.403	3.11	54.302	53.817	54.686	54.532	54.731	55.338	0		5/024
6/024	12/001	1/024A 1/024B 1/025 1/024 2/024 3/024 4/024 1/024C 1/024D												6.76	266	1.452	0	966	13.578	1	900	2	1.52	0.08	33 34	0	1	1.79	0.118	0.25	0.03		0.03	0.28	0.039	0.468	2.89	53.817	53.682	54.502	54.463	54.532	54.839	0		6/024
1/024A	6/024	1/024A	6	275	1	0.041	0.041	31	2137	0.83	125	2012	1/024B	6	275	0.041	0	125	5.581	0.3	450	2	0.79	0.09	32	1		2.86	0.032	4.1	0.13		0.13	0.19	0.011	0.305	1.09	53.834	53.817	54.542	54.532	54.672	54.79	2350	2137	1/024A
1/024B	6/024	1/024B	6	275	1	0.068	0.068	52	2077	0.83	98	1979	1/027	6	275	0.068	0	98	3.007	1.54	375	2	0.89	0.03	32	1		3.19	0.04	3.59	0.144		0.144	0.31	0.01	0.178	1.9	53.864	53.817	54.541	54.532	54.686	54.804	2350	2077	1/024B
1/026	13/001	1/026	7	263	0.84	0.234	0.196	143	1746	0.39	360	1386	1/029	7	263	0.196	0	360	2.085	1.01	375	2	3.26	0.02	32				0	0	0		0	0	0	0.375	3.26	52.762	52.741	53.71	53.71	53.71	53.703	1787	1746	1/026
1/027	13/001		5	0		0	0	0	1561	0.39	375	1186	LOST	1	404	0	0	1160	3.72	1	375	2	10.5	0.04	32				0	0	0		0	0	0	0.375	10.5	52.76	52.723	53.71	53.71	53.71	53.7	1787	1561	1/027
1/028	2/028	1/028	6	275	1	0.24	0.24	183	683	1.1	7	677	1/030	6	275	0.24	0	7	11.166	0.4	375	2	0.06	0.19	32	1		3.11	0	3.68	0.001		0.001	0	0	0.063	0.55	53.203	53.159	53.994	53.994	53.995	54.144	2599	683	1/028
2/028	14/001	1/028 2/028	6	275	1	0.314	0.314	240	615	1.07	248	367	1/027	6.19	273	0.554	0	251	15.638	6.1	450	2	1.58	0.06	32 46 47	0.97	0.83	2.86	0.127	3.24	0.413	3.25	0.415	0.78	0.121	0.186	4.06	53.159	52.204	53.58	53.459	53.995	54.157	2599	615	2/028
1/029	15/001	1/029	7	263	0.84	0.126	0.105	77	1517	0.66	210	1307	1/030	7	263	0.105	0	210	7.475	1.01	375	2	1.9	0.08	32	1		3.34	0.184	3.44	0.633		0.633	1.43	0.108	0.375	1.9	52.733	52.657	52.976	52.868	53.609	53.666	3	1517	1/029
1/030	15/001	1/030	6	275	1	0.113	0.113	86	2070	0.66	210	1861	23/001	6	275	0.113	0	210	7.511	1.01	375	2	1.9	0.08	32	1		3.44	0.184	3.32	0.611		0.611	1.43	0.108	0.375	1.9	52.671	52.595	52.976	52.868	53.587	53.613	6	2070	1/030
1/031	16/001	1/031	6	275	1	0.16	0.16	122	1483	2.51	216	1267	1/043	6	275	0.16	0	216	3.686	1	375	2	1.96	0.04	32	1		2.99	0.195	3.82	0.746		0.746	2.12	0.053	0.375	1.96	52.621	52.584	52.621	52.543	53.367	53.567	2236	1483	1/031
1/032	2/032	1/032	6	275	1	0.097	0.097	74	74	5	60	14	1/041	6	275	0.097	0	60	17.562	2.06	375	2	0.54	0.13	32	1		1.28	0.015	7	0.106		0.106	3.48	0.449	0.125	1.87	67.574	67.212	67.574	66.961	67.68	68.53	1607	74	1/032
2/032	3/032	1/032 2/032	6	275	1	0.097	0.097	74	74	5	60	14	3/032	6.13	273	0.194	0	119	52.366	4.15	375	2	1.08	0.27	46 47	0.5	1	1.42	0.06	2.29	0.136	2.66	0.158	3.64	1.906	0.149	2.91	66.419	64.243	66.419	64.513	66.577	68.154	1607	74	2/032
3/032	4/032	1/041 1/032 2/032 3/032	6	275	1	0.059	0.059	45	59	5	51	8	4/032	6.4	270	0.367	0	242	58.677	5.7	375	2	2.19	0.26	34 37	0.21	1	1.77	0.245	1.18	0.289		0.289	3.96	2.326	0.205	3.93	64.223	60.878	64.223	61.897	64.513	65.183	1607	59	3/032
4/032	5/032	1/040 1/041 1/032 2/032 3/032 4/032	6	275	1	0.063	0.063	48	56	5.26	48	8	5/032	6.53	269	0.503	0	349	71.899	4.35	375	2	3.16	0.36	33 34	0.14	1	3.77	0.509	0.64	0.327		0.327	3.96	2.846	0.293	3.77	60.858	57.733	61.57	58.724	61.897	61.9	1607	56	4/032
5/032	6/032	1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032	6	275	1	0.077	0.077	58	66	4.23	-51	117	6/032	6.72	266	0.89	0	350	63.26	4.11	375	2	3.17	0.33	33 34	0	1	1.93	0.511	0.26	0.134		0.134	3.97	2.513	0.302	3.67	57.713	55.111	57.93	55.417	58.063	58.724	1656	66	5/032

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH
		REVISIONS	RPEQ

Premise

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18
RPEQ	K. Howells RPEQ 7295	DATE 23/02/18
SCALE		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 3 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C424	B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS				V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m							m	m/s	m	m	m	m	m	m	l/s	l/s	
6/032	7/032	1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032	6	275	1	0.068	0.068	52	169	3.86	51	118	7/032	6.95	264	1.205	0	455	35.943	3.09	450	2	2.86	0.19	33 34	0.11	1	1.68	0.417	0.73	0.306		0.306	2.82	1.015	0.336	3.57	55.111	54.002	55.111	54.096	55.417	56.077	1680	169	6/032
7/032	8/032	1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032	6	275	1	0.038	0.038	29	146	2.9	92	54	1/029	7.02	263	1.457	0	631	35.341	1.36	600	2	2.23	0.23	46 47	0.14	0.98	2.67	0.254	1.74	0.443	2	0.509	1.06	0.374	0.438	2.86	53.158	52.678	53.653	53.28	54.162	54.875	1743	146	7/032
8/032	16/001	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033 1/037 1/038 1/039 1/040 1/041 1/032 2/032 3/032 4/032 5/032 6/032 7/032												7.26	260	3.86	0	1374	31.144	2.25	750	2	3.11	0.14	37 42 43	0	1	1.81	0.493	0.93	0.456	0.94	0.466	1.52	0.474	0.518	4.22	52.678	51.977	52.823	52.349	53.289	54.482	0		8/032
7/033	8/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033	6	275	1	0.02	0.02	15	652	3.54	206	446	8/033	6.8	265	1.857	0	923	43.618	3.98	600	2	3.26	0.17	33 34	0.22	1	2.38	0.544	0.99	0.538		0.538	2.26	0.985	0.389	4.76	56.755	55.019	57.045	56.06	57.583	57.717	1680	652	7/033
8/033	9/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033	6	275	1	0.046	0.046	35	481	3	69	412	9/033	6.97	263	1.903	0	981	9.584	4.53	600	2	3.47	0.03	33 34	0.07	1	2.77	0.614	0.43	0.263		0.263	2.55	0.245	0.388	5.07	54.999	54.564	55.798	55.553	56.06	56.083	1714	481	8/033
9/033	10/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033	6	275	1	0.242	0.242	184	596	5.04	-240	836	11/033	7	263	2.144	0	730	18.969	3.89	600	2	2.58	0.07	42 46 43 47				0.34	1.38	0.471	1.58	0.536	1.41	0.269	0.336	4.47	54.544	53.807	55.017	54.748	55.553	55.553	1607	596	9/033
10/033	11/033	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033	6	275	1	0.215	0.215	164	164	4.76	-324	488	1/031	7.08	262	2.359	0	393	16.738	0.93	600	2	1.39	0.13	46 47				0.099	1.71	0.169	2.17	0.214	0.41	0.069	0.357	2.24	53.091	52.935	54.085	54.016	54.299	54.748	1631	164	10/033
11/033	8/032	1/034 2/034 1/035 1/036 1/033 3/033 4/033 5/033 7/033 8/033 9/033 10/033 11/033	6	275	1	0.044	0.044	33	870	1.09	375	495	1/031	7.21	261	2.403	0	757	10.36	2.29	600	2	2.68	0.05	42 46 43 47				0.366	1.58	0.579	1.94	0.711	1.52	0.157	0.412	3.66	52.915	52.678	53.437	53.28	54.148	54.6	1	870	11/033
1/037	7/032	1/037	6	275	1	0.221	0.221	169	479	3	101	378	1/031	6	275	0.221	0	101	13.564	1	375	2	0.91	0.14	32	1		2.04	0.043	6.81	0.29		0.29	0.33	0.045	0.204	1.64	54.04	53.904	54.141	54.096	54.431	54.981	1743	479	1/037
1/038	6/032	1/038	6	275	1	0.253	0.253	193	385	3.96	74	311	1/037	6	275	0.253	0	74	13.33	1	375	2	0.67	0.14	32	1		1.99	0.023	7.07	0.164		0.164	0.18	0.024	0.171	1.52	55.235	55.102	55.441	55.417	55.605	56.177	1680	385	1/038
1/039	5/032	1/039	6	275	1	0.317	0.317	242	260	4.34	68	192	1/038	6	275	0.317	0	68	13.217	1	375	2	0.62	0.14	32	1		3.51	0.019	3.25	0.063		0.063	0.15	0.02	0.162	1.49	57.866	57.733	58.744	58.724	58.807	58.807	1656	260	1/039
1/040	4/032	1/040	6	275	1	0.075	0.075	57	83	5.42	64	18	1/039	6	275	0.075	0	64	13.286	1	375	2	0.58	0.14	32	1		3.38	0.017	3.39	0.059		0.059	0.13	0.018	0.157	1.47	61.083	60.95	61.915	61.897	61.974	62.024	1607	83	1/040
1/041	3/032	1/041	6	275	1	0.113	0.113	87	101	5	75	25	1/040	6	275	0.113	0	75	13.9	2.01	375	2	0.68	0.1	32	1		1.49	0.024	7	0.166		0.166	0.18	0.026	0.142	1.97	64.522	64.243	64.539	64.513	64.705	65.477	1607	101	1/041
1/042	17/001	1/042	6	275	1	0.11	0.11	84	84	1.33	71	13	1/044	6	275	0.11	0	71	14.333	1.7	375	2	0.65	0.12	32	1		1.4	0.021	7	0.149		0.149	0.76	0.109	0.144	1.83	51.54	51.296	51.54	51.431	51.689	52.521	2531	84	1/042
1/043	17/001	1/043	6	275	1	0.382	0.382	292	1523	1.15	234	1290	1/045	6	275	0.382	0	234	7.732	1	375	2	2.11	0.08	32	1		3.51	0.228	3.25	0.743		0.743	1.77	0.137	0.375	2.11	51.371	51.294	51.568	51.431	52.311	52.311	2599	1523	1/043
1/044	18/001	1/044	6	275	1	0.107	0.107	81	94	1.6	75	19	1/048	6	275	0.107	0	75	3.076	1.62	375	2	0.68	0.03	32	1		1.59	0.024	9.23	0.22		0.22	8.9	0.129	0.15	1.82	50.677	50.627	50.677	50.403	50.897	51.618	2479	94	1/044
1/045	2/045	1/045	6	275	1	0.2	0.2	153	1407	0.74	131	1276	2/045	6	275	0.2	0	131	45.463	1	375	2	1.18	0.48	32	1		3.46	0.071	2.83	0.202		0.202	0.55	0.252	0.241	1.74	51.109	50.655	51.828	51.576	52.03	52.058	2163	1407	1/045
2/045	18/001	1/045 2/045	6	275	1	0.274	0.274	209	1449	1.61	175	1274	1/047	6.48	269	0.474	0	406	6.237	0.48	375	2	3.68	0.09	37 42 43	0.42	1	4.8	0.69	1.35	0.929	1.36	0.938	5.36	0.334	0.375	3.68	50.159	50.13	50.647	50.313	51.586	51.618	2479	1449	2/045
1/046	2/046		5	0		0	0	0	18		18	0	2/046	1	404	0	0	18	14.66	3.41	225	uP VC	0.45	0.1	32	1		1.33	0.01	7	0.073		0.073	2.96	0.434	0.065	1.88	55.226	54.726	55.226	54.792	55.299	56.25	0	18	1/046
2/046	3/046		5	0		0	0	0	18		18	0	3/046	1.1	398	0	0	36	13.892	1.5	225	uP VC	0.91	0.14	33 34	0.5	1	1.38	0.042	2.06	0.086		0.086	1.19	0.165	0.12	1.68	54.706	54.498	54.706	54.54	54.792	55.75	0	18	2/046
3/046	4/046		5	0		0	0	0	18		18	0	4/046	1.24	390	0	0	54	13.899	2.7	300	uP VC	0.76	0.09	33 34	0.33	0.75	1.09	0.03	0.91	0.027		0.027	2.36	0.328	0.11	2.3	54.513	54.137	54.513	54.186	54.54	55.4	0	18	3/046
4/046	5/046		5	0		0	0	0	18		18	0	5/046	1.33	385	0	0	72	13.888	2.88	300	uP VC	1.02	0.08	33 34	0.25	1	1.23	0.053	1.29	0.068		0.068	2.37	0.329	0.127	2.54	54.117	53.718	54.117	53.788	54.186	55.05	0	18	4/046
5/046	6/046		5	0		0	0	0	18		18	0	6/046	1.41	381	0	0	90	13.248	2.17	300	uP VC	1.27	0.09	33 34	0.2	1	1.3	0.083	1.09	0.09		0.09	3.25	0.215	0.156	2.42	53.698	53.411	53.698	53.267	53.788	54.65	0	18	5/046
6/046	7/046		5	0		0	0	0	18		18	0	2/045	1.5	375	0	0	108	9.5	1	375	2	0.98	0.1	46 47	0.17	0.8	1.35	0.049	2.17	0.106	2.71	0.132	0.79	0.075	0.213	1.67	52.177	52.082	52.177	52.102	52.309	54.35	0	18	6/046
7/046	8/046													1.6	370	0	0	108	28.995	3.54	375	2	0.98	0.16	46 47	0	1	1.34	0.049	2.08	0.102	2.65	0.129	1.11	0.322	0.148	2.67	52	50.973	52	51.678	52.129	53	0		7/046
8/046	2/045													1.77	360	0	0	108	7.283	3	375	2	0.98	0.04	46 47	0	1	4.47	0.049	1.52	0.074	1.92	0.094	0.38	0.028	0.154	2.52	50.398	50.179	51.604	51.576	51.698	51.944	0		8/046
1/047	19/001	1/047	6	275	1	0.2	0.2	153	1427	3.59	206	1221	1/049	6	275	0.2	0	206	7.918	1.14	375	2	1.87	0.08	32	1		2.9	0.177	4.02	0.713		0.713	1.73	0.109	0.375	1.87	49.498	49.408	49.498	49.361	50.211	50.355	2108	1427	1/047
1/048	20/001	1/048	6	275	1	0.098	0.098	75	94	4.2	72	22	1/050	6	275	0.098	0	72	4.752	1.06	375	2	0.65	0.05	32	1		1.54	0.021	9.48	0.203		0.203	5.48	0.162	0.164	1.54	47.823	47.773	47.823	47.562	48.026	48.765	2056	94	1/048
1/049	20/001	1/049	6	275	1	0.079	0.079	61	1282	4.3	206	1076	1/051	6	275	0.079	0	206	9.023	2.65	375	2	1.87	0.06	32	1		2.9	0.177	4.02	0.713		0.713	4.16	0.153	0.236	2.81	48.049	47.809	48.049	47.671	48.762	48.9	2056	1282	1/049
1/050	22/001	1/050	6	275	1	0.091	0.091	69	92	2.83	69	23	LOST	6	275	0.091	0	69	7.759	1.87	375	2	0.62	0.06	32	1		3.72	0.02	2.65	0.053		0.053	0.15	0.012	0.138	1.87	44.225	44.08	45.193	45.18	45.245	45.412	2236	92	1/050
1/051	22/001	1/051	6	275	1	0.392	0.392	300	1375	1.93	98	1278	1/052	6	275	0.392	0	98	8.731	1	375	2	0.88	0.09	32	1		3.48	0.04	3.28	0.13		0.13	0.31	0.027	0.2	1.63	44.406	44.319	45.208	45.18	45.338	45.339	2390	1375	1/051
1/052	22/001	1/052	6	275	1	0.059	0.059	45	2987	0.32	375	2612	23/001	6	275	0.059	0	375	14.314	1	375	2	3.4	0.15	32				0	0	0		0	0	0	0.375	3.4	43.567	43.423	45.257	45.257	45.257	45.183	3	2987	1/052
16/100	17/100	1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134													7.87	253	11.478	0	6276	76.87	0.56	1500	2	3.55	0.43					0.495	1.12	0.554		0.554	0.61	0.466	1.5	3.55	47.163	46.73	48.34	47.874	48.894	48.894			16/100

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18

RPEQ KEITH ROWELLS RPEQ 7295 DATE 23/02/18
SCALE

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 4 OF 5

JOB CODE MIR001-01
SHEET NUMBER C425
REV B

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN					DRAIN DESIGN									HEADLOSSES												PART FULL		DESIGN LEVELS						RUNOFF		
			tc	I	C	A	CA	Q			Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS				V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn									
STRUCTURE NUMBER	DOWNSTREAM STRUCTURE	SUB-CATCHMENTS CONTRIBUTING	SUB-CATCHMENT TIME OF CONCENTRATION	RAINFALL INTENSITY	CO-EFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	FLOW INTO INLET	BYPASS FLOW	BYPASS STRUCTURE NUMBER	CRITICAL TIME OF CONCENTRATION	RAINFALL INTENSITY	TOTAL (C x A)	SUM ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE/BOX DIMENSIONS	CLASS	FULL PIPE VELOCITY	TIME OF FLOW IN REACH	CHARTS USED	Qg/Qo	Du/Do	S/Do	VELOCITY HEAD	UPSTREAM HEADLOSS CO-EFFICIENT	UPSTREAM HEADLOSS	W.S.E. CO-EFFICIENT	CHANGE IN W.S.E.	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	NORMAL DEPTH	NORMAL DEPTH VELOCITY	UPSTREAM OBVERT LEVEL	DOWNSTREAM OBVERT LEVEL	UPSTREAM H.G.L.	DOWNSTREAM H.G.L.	W.S.E.	SURFACE OR GRATE LEVEL	MAJOR SURFACE FLOW CAPACITY	MAJOR SURFACE FLOW	STRUCTURE NUMBER
			min	mm/h		ha	ha	l/s	l/s	%	l/s	l/s		min	mm/h	ha	l/s	l/s	m	%	mm		m/s	min					m							m	m/s	m	m	m	m	m	m	l/s	l/s	
17/100	18/100	1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134														8.29	249	12.602	0	7035	35.197	0.5	1500	2	3.98	0.21					0.489	0.18	0.086		0.086	0.6	0.211	1.5	3.98	46.71	46.534	47.788	47.577	47.874	47.973	0		17/100
18/100	19/100	1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134														8.5	247	12.757	0	6985	23.102	0.5	1500	2	3.95	0.14	33	0	1	1.71	0.415	0.2	0.084		0.084	0.51	0.117	1.5	3.95	46.514	46.399	47.494	47.376	47.577	47.623	0		18/100
19/100	20/100	1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134														8.64	246	12.972	0	6948	14.271	0.47	1500	2	3.93	0.09	33 34	0	1	1.66	0	0.25	0		0	0	0	1.5	3.93	46.379	46.311	47.376	47.376	47.376	47.432	0		19/100
20/100	21/001	1/102 1/101 2/101 3/101 1/103 1/104 1/105 1/106 1/107 1/109 1/108 2/108 3/108 4/108 1/111 1/112 1/114 1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121 1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129 1/130 1/131 1/132 1/133 1/140 1/142 1/143 1/144 1/141 2/141 3/141 1/146 1/147 1/148 1/149 1/150 1/100 2/100 3/100 4/100 1/135 1/136 1/137 1/138 1/134 2/134 3/134 4/134 5/134														8.67	245	13.755	0	7237	74.81	1.13	1500	2	4.1	0.29	34 37	0	1	1.72	0.83	0.34	0.284		0.284	1.02	0.76	1.183	4.84	46.291	45.447	47.093	46.333	47.376	47.762	0		20/100
1/101	2/101	1/101	6	275	1	0.262	0.262	200	200	3.86	121	79	1/108	6	275	0.262	0	121	19.098	3.97	375	2	1.09	0.1	32	1		1.87	0.061	5.36	0.328		0.328	2.87	0.551	0.152	2.87	53.764	53.006	53.764	53.213	54.092	54.736	1680	200	1/101
2/101	3/101	1/101 2/101	6	275	1	0.097	0.097	74	74	4.77	60	14	3/101	6.1	274	0.359	0	180	70.513	5.85	375	2	1.63	0.31	34 37	0.33	1	1.6	0.136	1.67	0.227		0.227	4.44	3.127	0.171	3.68	52.986	48.861	52.986	49.859	53.213	53.963	1631	74	2/101
3/101	20/100	1/102 1/101 2/101 3/101	6	275	1	0.248	0.248	190	204	5.9	104	100	1/203	6.41	270	0.812	0	377	40.365	6.32	375	2	3.41	0.17	34 37	0.27	1	3.71	0.594	1.04	0.62		0.62	4.61	1.863	0.267	4.48	48.841	46.291	49.239	47.376	49.859	49.893	1586	204	3/101
1/102	3/101	1/102	6	275	1	0.205	0.205	157	157	6	103	54	1/104	6	275	0.205	0	103	8.832	2.59	375	2	0.93	0.06	32	1		3.3	0.044	3.48	0.154		0.154	0.34	0.031	0.157	2.35	49.181	48.952	49.889	49.859	50.043	50.123	1586	157	1/102
1/103	19/100	1/103	6	275	1	0.017	0.017	13	1530	0.64	2	1528	2/203	6	275	0.017	0	2	3.082	1.01	375	2	0.02	0.03	32	1		3.55	0	3.21	0		0	0	0	0.027	0.52	46.422	46.391	47.376	47.376	47.376	47.376	1787	1530	1/103
1/104	19/100	1/104	6	275	1	0.198	0.198	151	1386	0.6	27	1359	1/103	6	275	0.198	0	27	5.845	1	450	2	0.17	0.05	32	1		3.11	0.001	3.68	0.005		0.005	0.01	0.001	0.093	1.12	46.432	46.373	47.377	47.376	47.382	47.382	1787	1386	1/104

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	B	CALCULATIONS UPDATED TO MATCH THE DRAINAGE ALIGNMENT CHANGES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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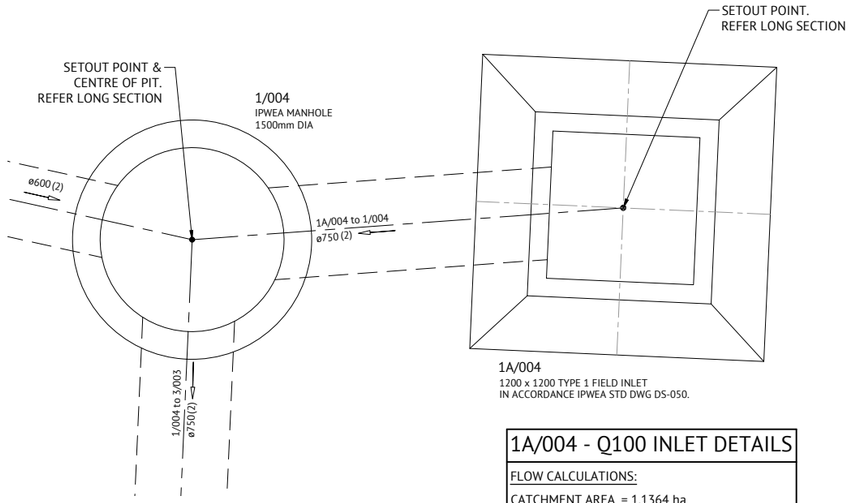
DESIGNED MM
CHECKED JS
PROJECT MANAGER JS
PROJECT DIRECTOR JOSHUA STONE DATE 23/02/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 23/02/18
SCALE

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE Q100 MAJOR STORM CALCULATIONS - 5 OF 5

JOB CODE MIR001-01
SHEET NUMBER C426
REV B



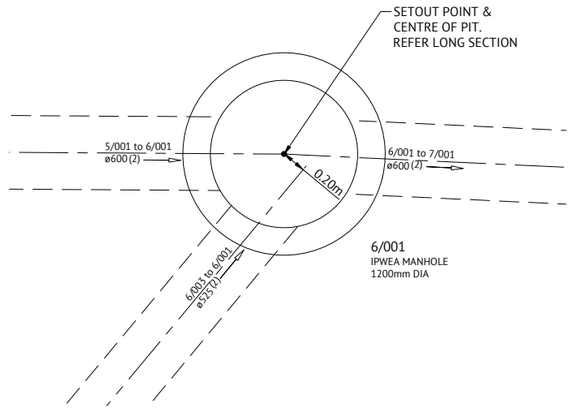
1A/004 - Q100 INLET DETAILS

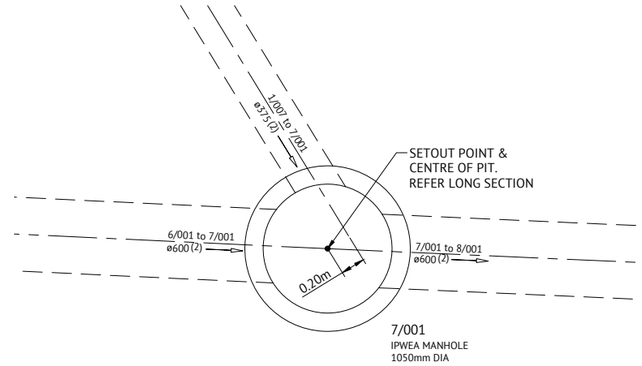
FLOW CALCULATIONS:

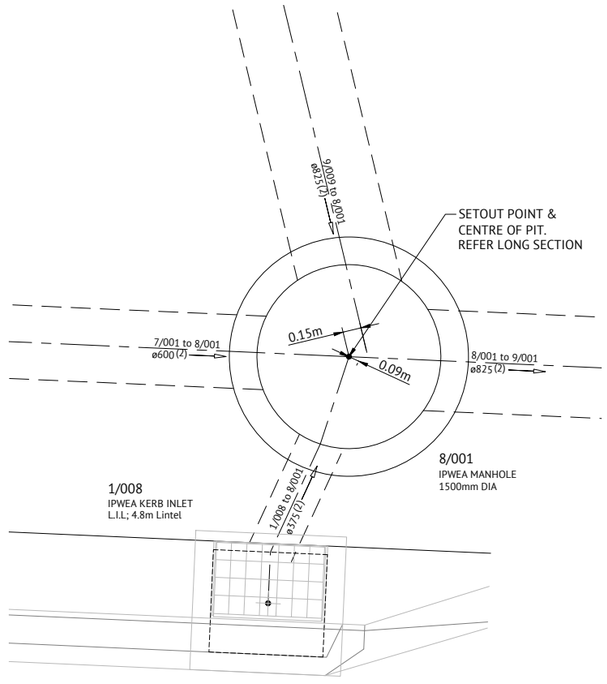
CATCHMENT AREA	= 1.1364 ha
C_{100}	= 1.00
Tc	= 6 mins
I_{100}	= 275 mm/hr
Q_{100}	= 0.868 m³/s

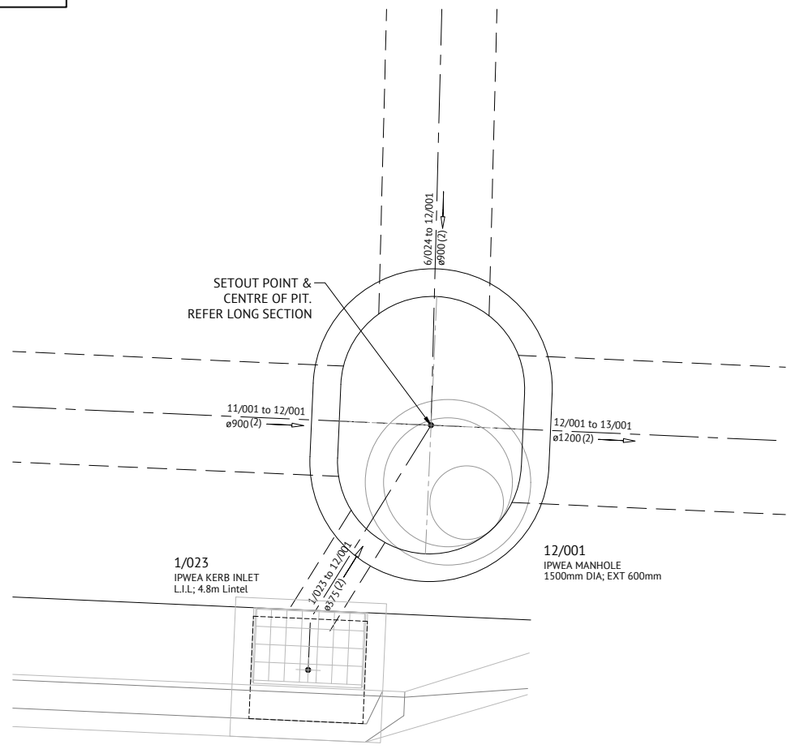
STRUCTURE CAPACITY DETAILS:

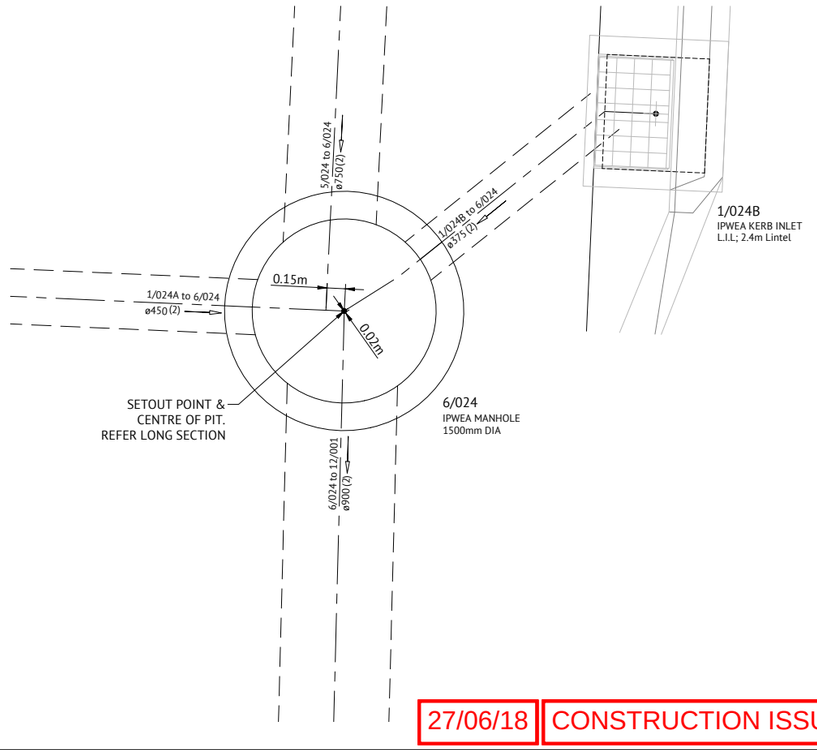
PIT SIZE	= 1200 x 1200
TOTAL WEIR LENGTH	= 4.8m
HEADWATER DEPTH	= 0.15m
BLOCKAGE FACTOR	= 0.50
INLET CAPACITY	= 1.125 m³/s











27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	C	ACCESS LID LOCATIONS ADDED	KH
10/01/18	B	AMENDED STRUCTURE DETAILS DUE TO CHANGED PIPE SIZES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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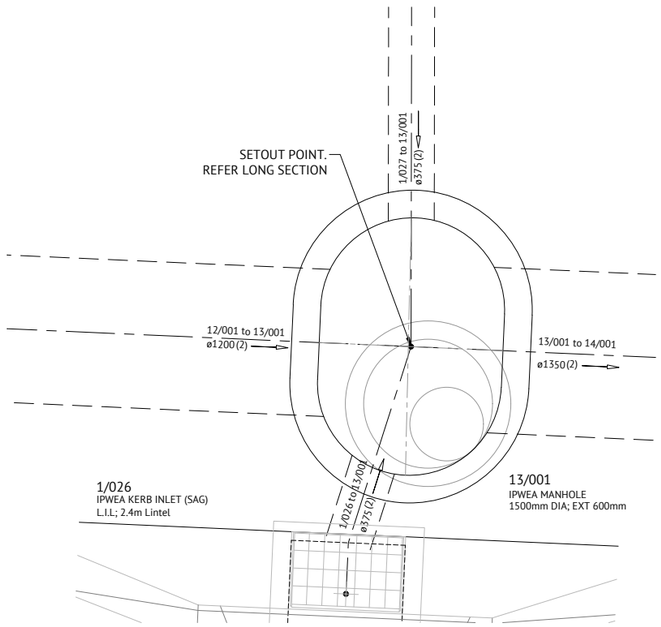
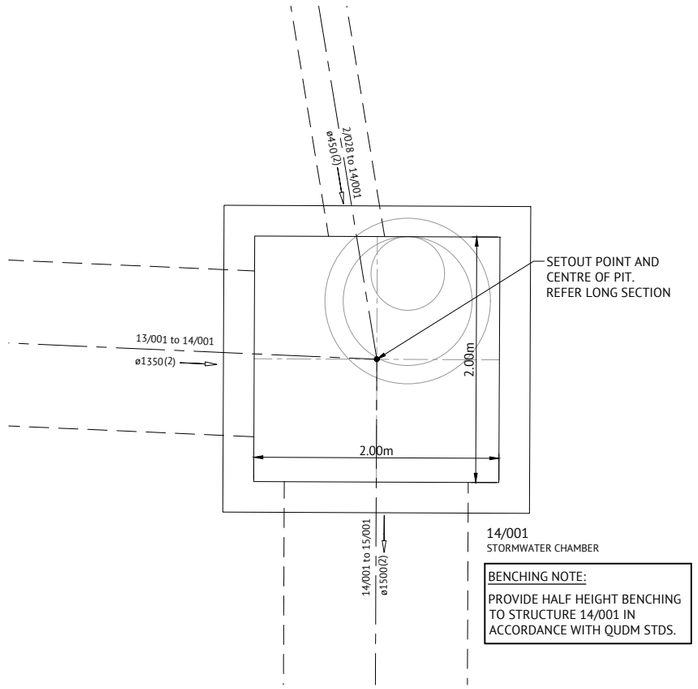
DESIGNED	MM		
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	23/02/18
RPEQ	KEITH HOWELLS	DATE	23/02/18
		RPEQ	7295

SCALE 0 0.5 1.0 1.5m
SCALE 1:25 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 1 OF 5

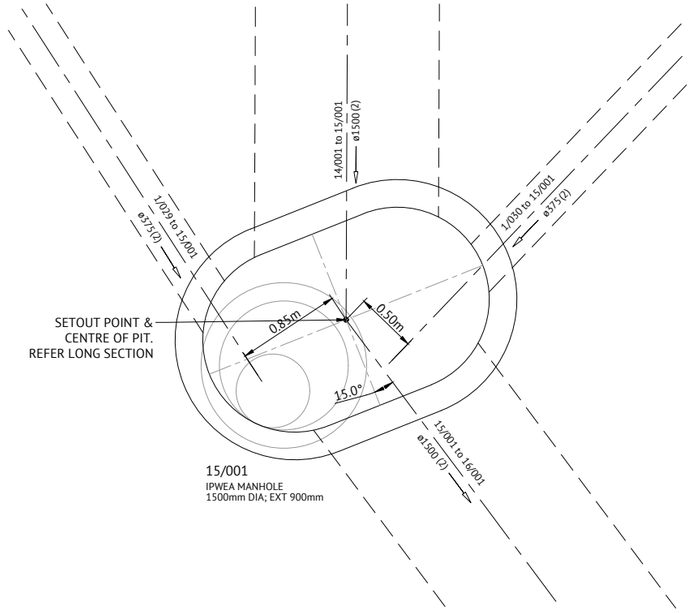
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C427	C

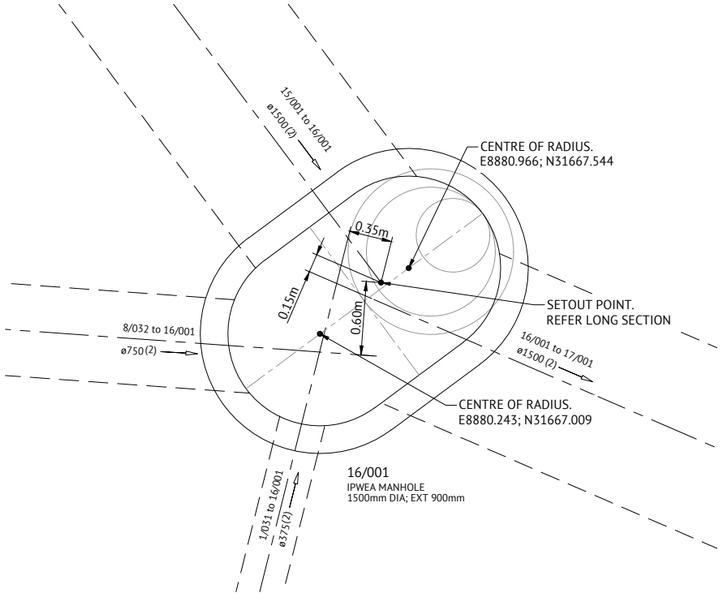


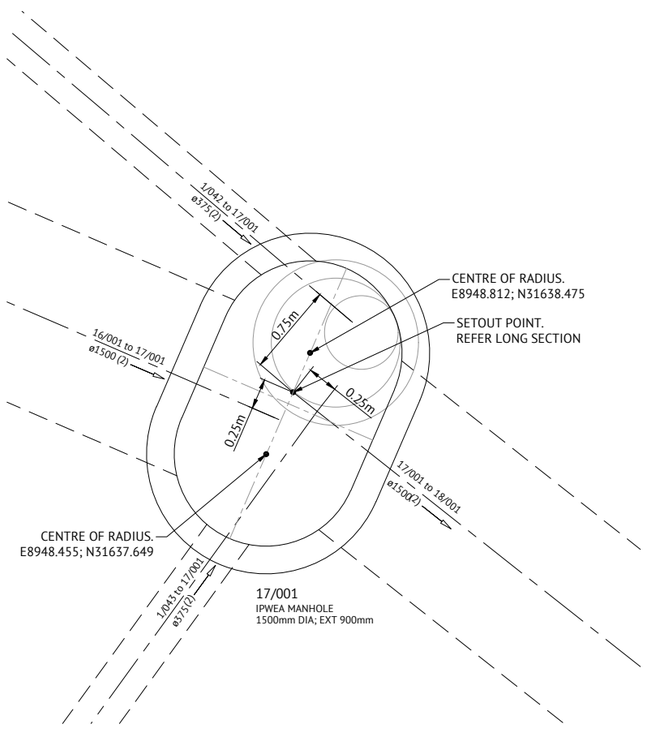


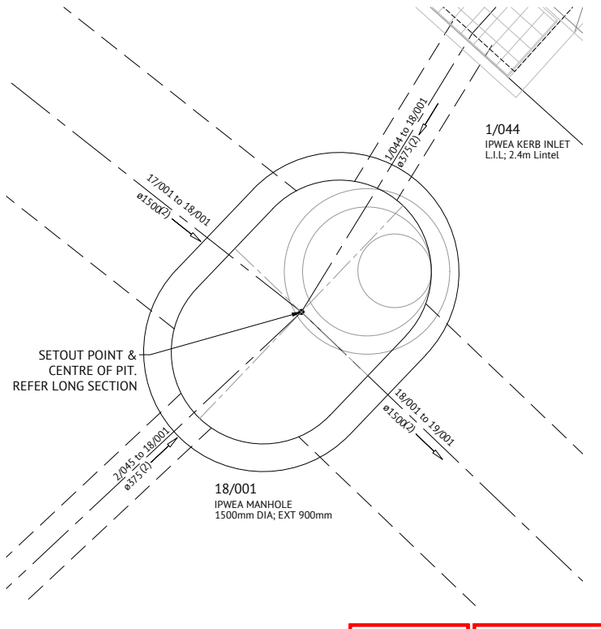
BENCHING NOTE:

PROVIDE HALF HEIGHT BENCHING TO STRUCTURE 14/001 IN ACCORDANCE WITH QUDM STDS.









27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	C	ACCESS LID LOCATIONS ADDED	KH
10/01/18	B	AMENDED STRUCTURE DETAILS DUE TO CHANGED PIPE SIZES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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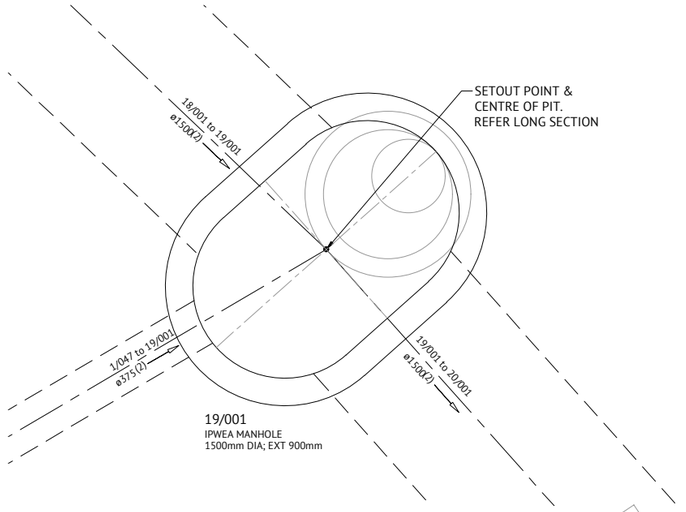
DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18

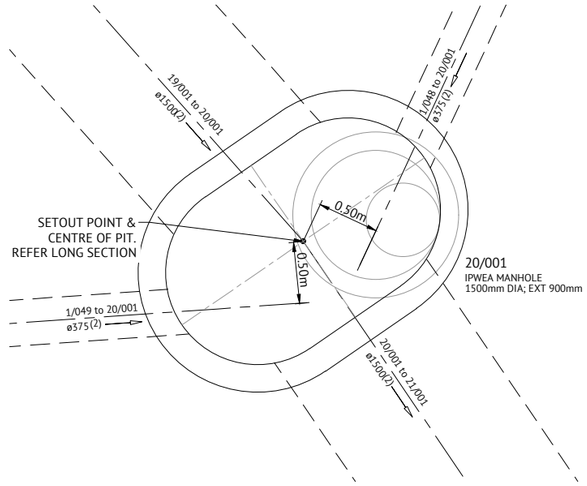
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 23/02/18

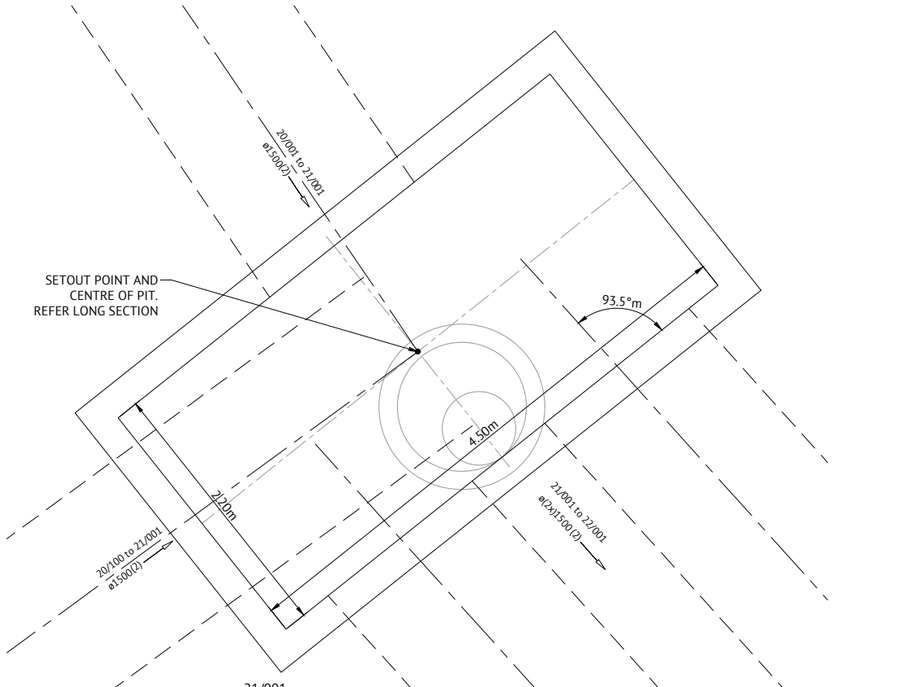
SCALE 0 0.5 1.0 1.5m
SCALE 1:25 (A1)

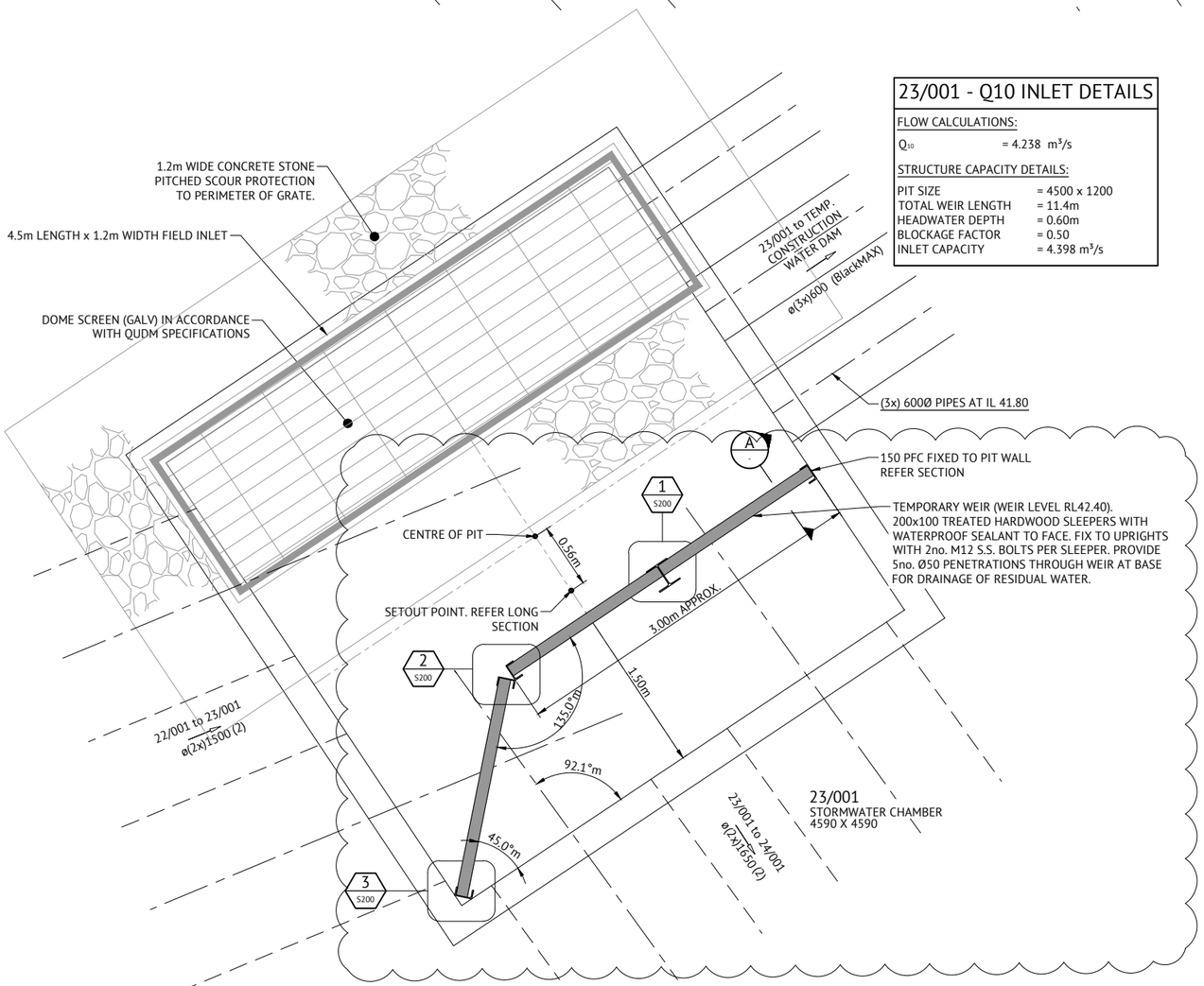
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 2 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C428	C









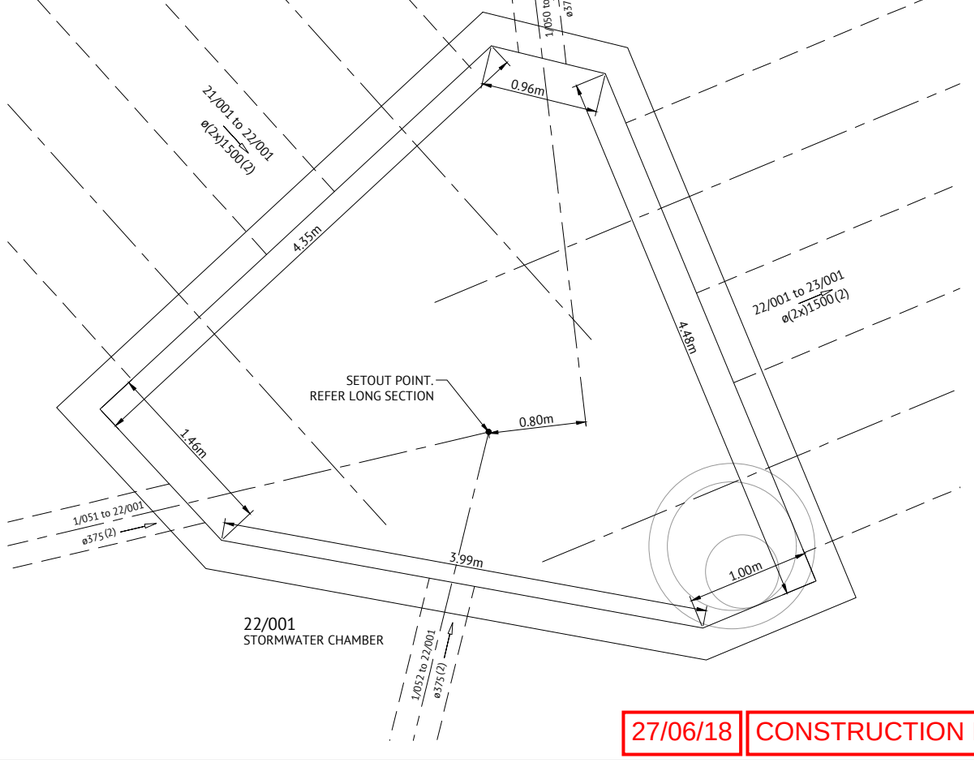
23/001 - Q10 INLET DETAILS

FLOW CALCULATIONS:

Q_{10} = 4.238 m³/s

STRUCTURE CAPACITY DETAILS:

PIT SIZE	= 4500 x 1200
TOTAL WEIR LENGTH	= 11.4m
HEADWATER DEPTH	= 0.60m
BLOCKAGE FACTOR	= 0.50
INLET CAPACITY	= 4.398 m³/s



27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
27/06/18	E	HARD-WOOD SLEEPER WALL ADJUSTED	BL
23/02/18	D	ACCESS LID LOCATIONS ADDED	KH
10/01/18	C	AMENDED STRUCTURE DETAILS DUE TO CHANGED PIPE SIZES	KH
26/10/17	B	AMENDED DETAILS - STRUCTURE 21/001 & 1/004	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	27/06/18

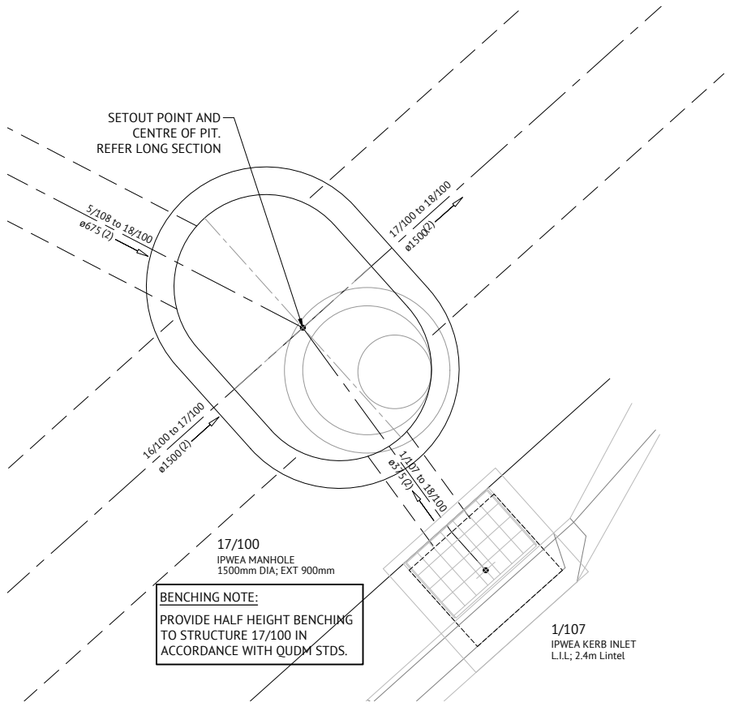
RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 27/06/18

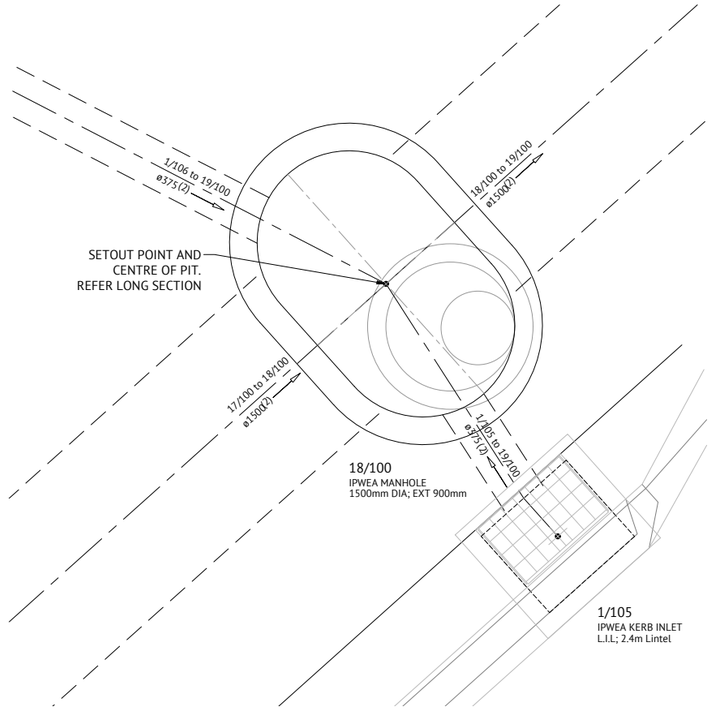
SCALE 0 0.5 1.0 1.5m

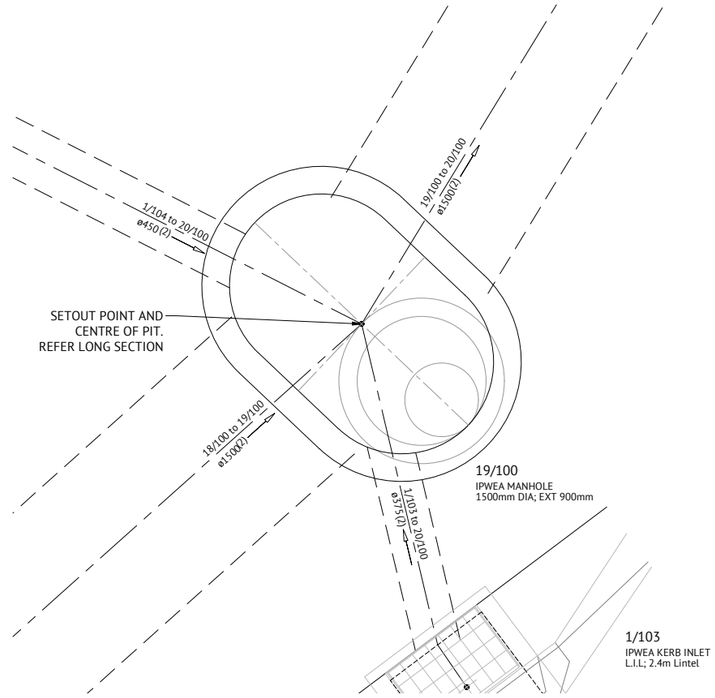
SCALE 1:25 (A1)

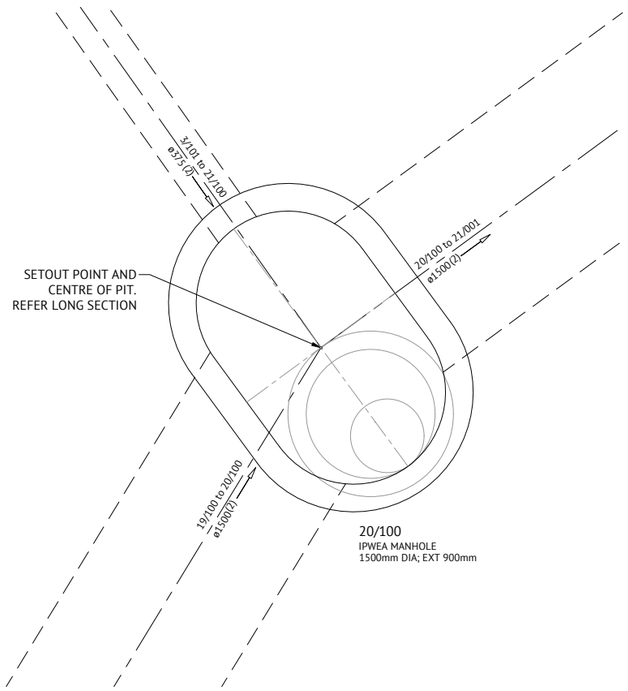
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 3 OF 5

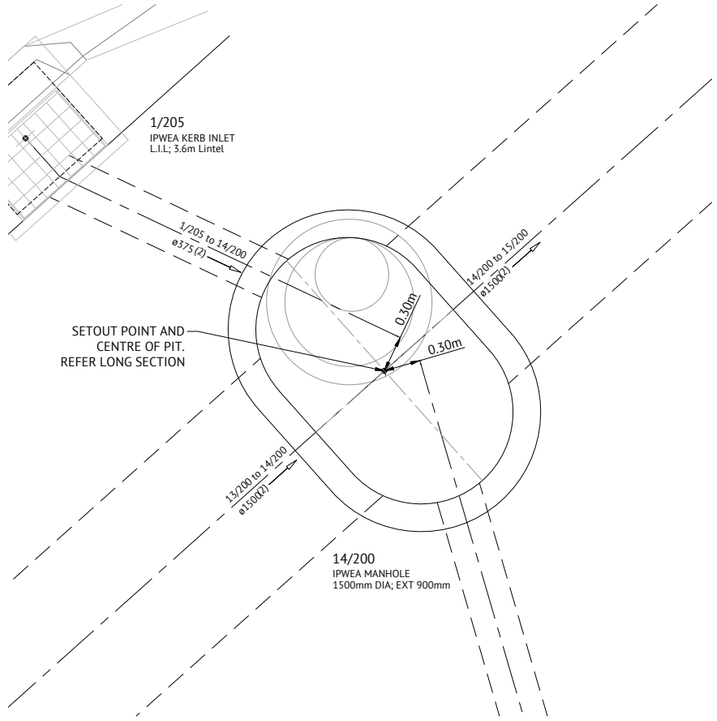
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C429	E

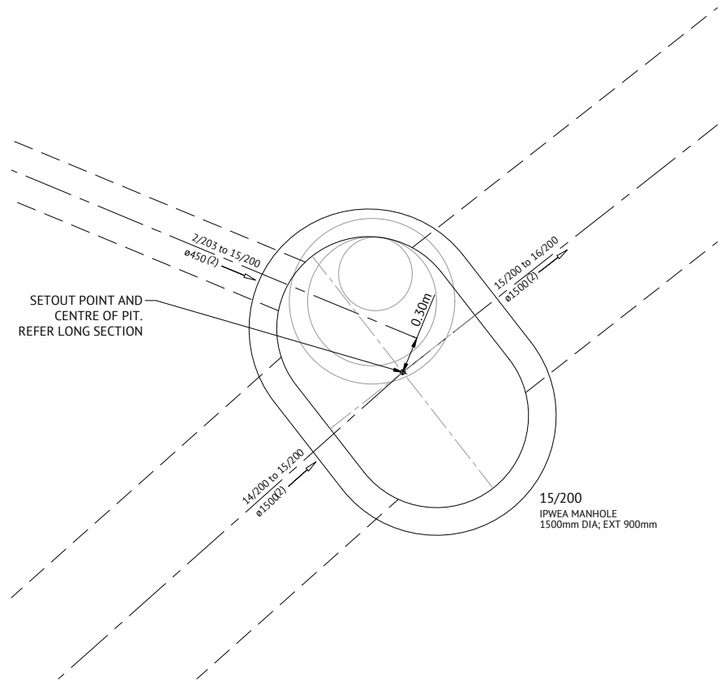












27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
23/02/18	C	ACCESS LID LOCATIONS ADDED	KH
10/01/18	B	AMENDED STRUCTURE DETAILS DUE TO CHANGED PIPE SIZES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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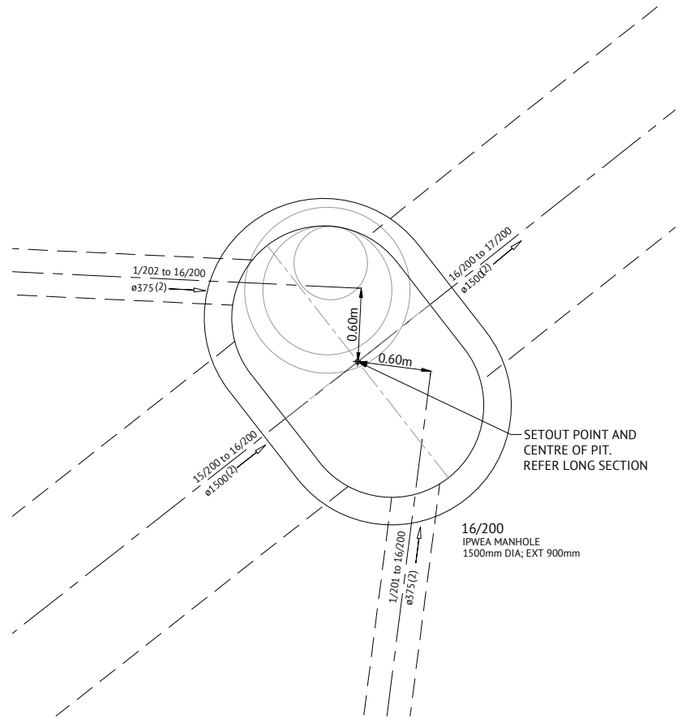
DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 23/02/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 23/02/18

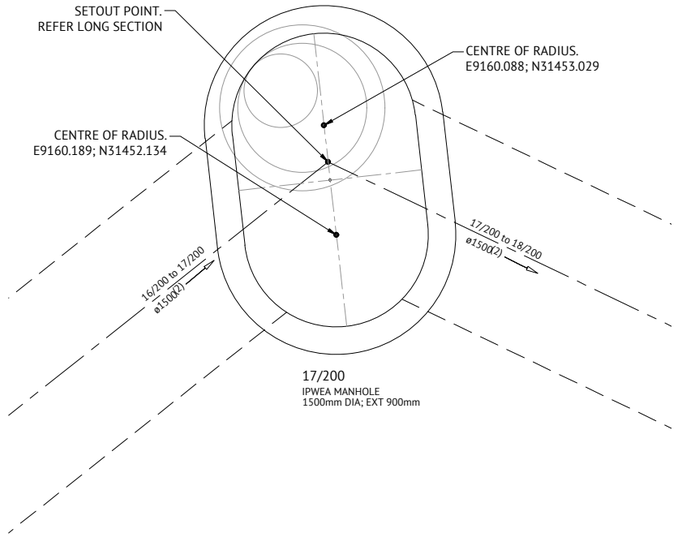
SCALE 0 0.5 1.0 1.5m
SCALE 1:25 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 4 OF 5

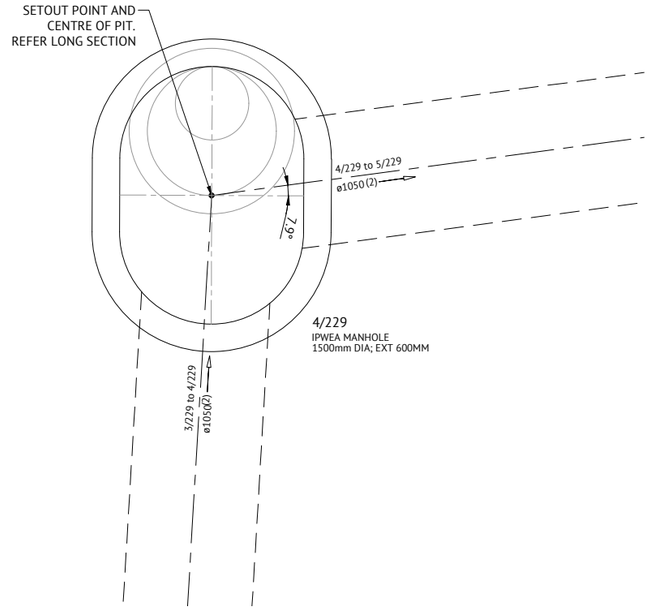
JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C430	C



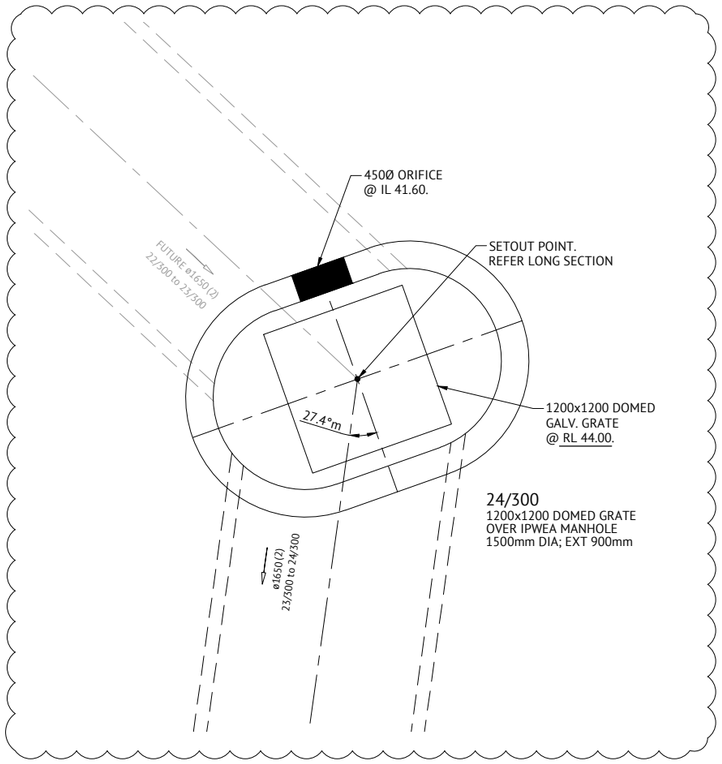
16/200
IPWEA MANHOLE
1500mm DIA; EXT 900mm



17/200
IPWEA MANHOLE
1500mm DIA; EXT 900mm



4/229
IPWEA MANHOLE
1500mm DIA; EXT 600MM



24/300
1200x1200 DOMED GRATE
OVER IPWEA MANHOLE
1500mm DIA; EXT 900mm

D

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
04/06/18	D	ADDED STRUCTURE DETAIL FOR 24/300	KH
23/02/18	C	ACCESS LID LOCATIONS ADDED	KH
10/01/18	B	AMENDED STRUCTURE DETAILS DUE TO CHANGED PIPE SIZES	KH
23/02/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 04/06/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 04/06/18

SCALE 0 0.5 1.0 1.5m
SCALE 1:25 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 5 OF 5

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C431	D

DRAWING DELETED FROM SET

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
10/11/17	B	DRAWING DELETED FROM SET	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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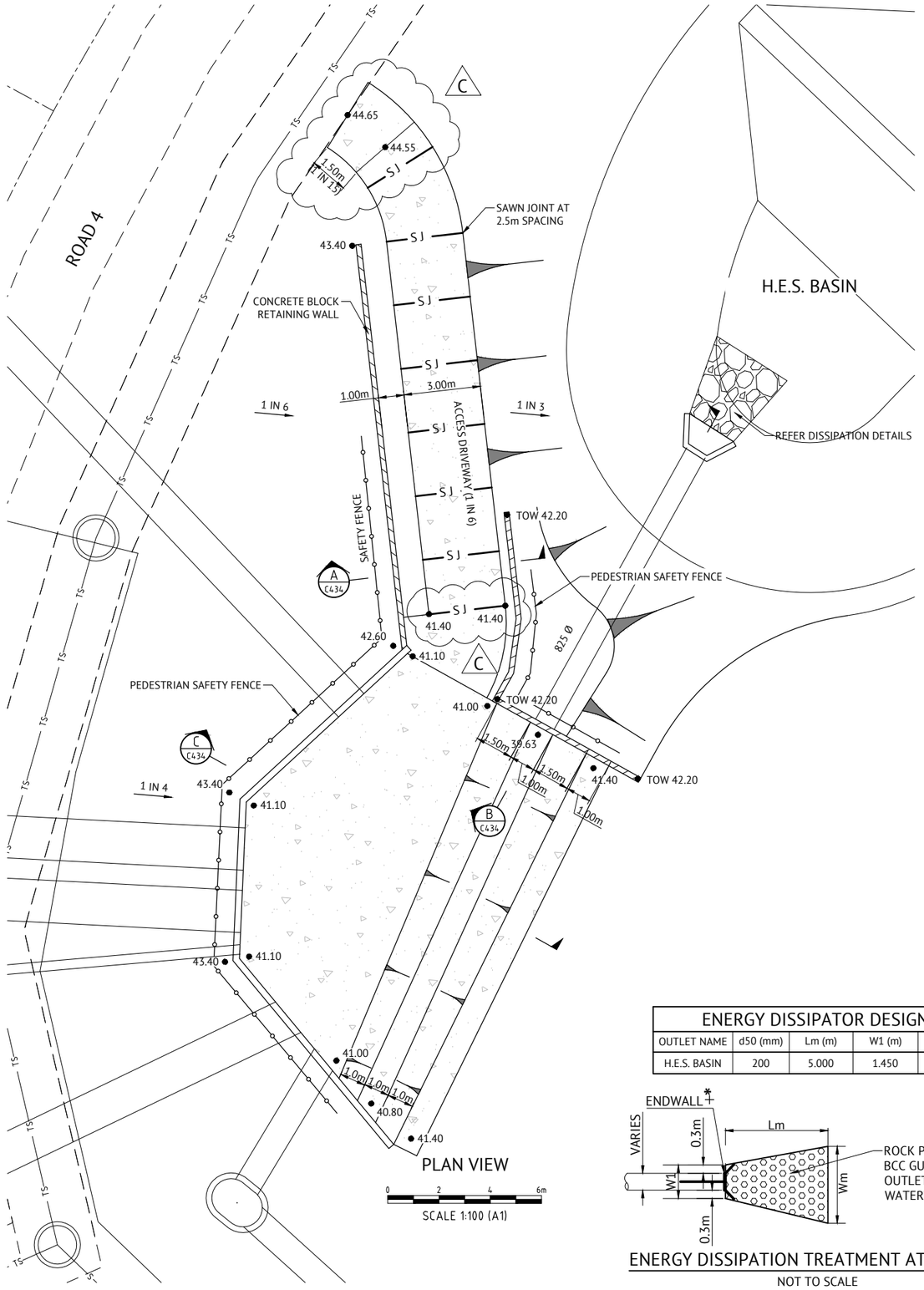
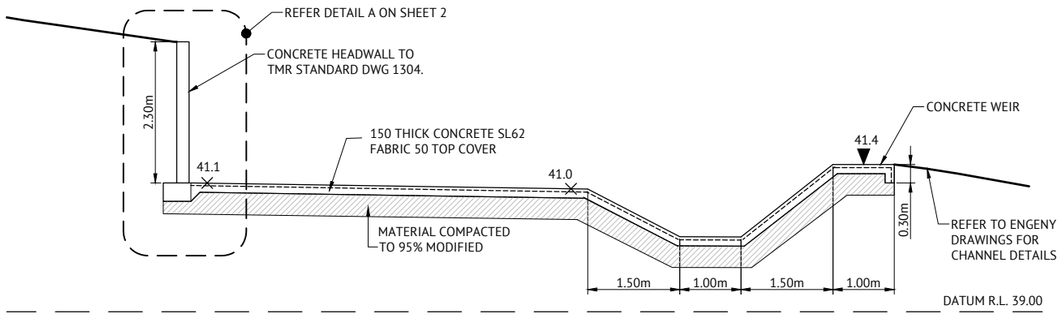
DESIGNED	MM	RPEQ	DATE
CHECKED	JS		10/11/17
PROJECT MANAGER	JS	KEITH HOWELLS	RPEQ 7295
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	10/11/17		

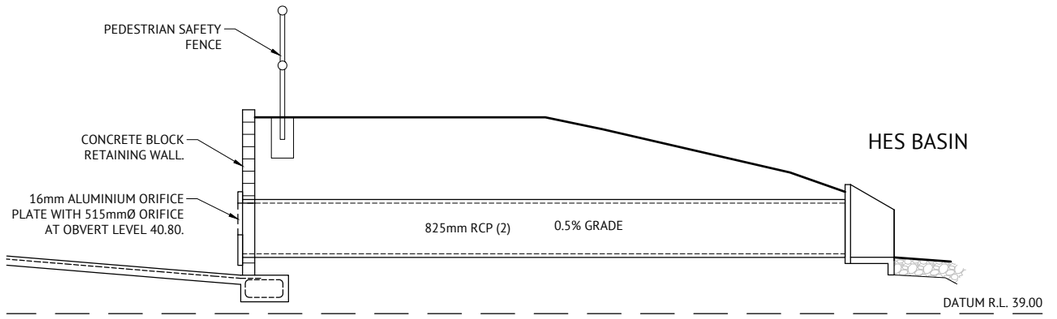
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	---DRAWING DELETED FROM SET---

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C432	B

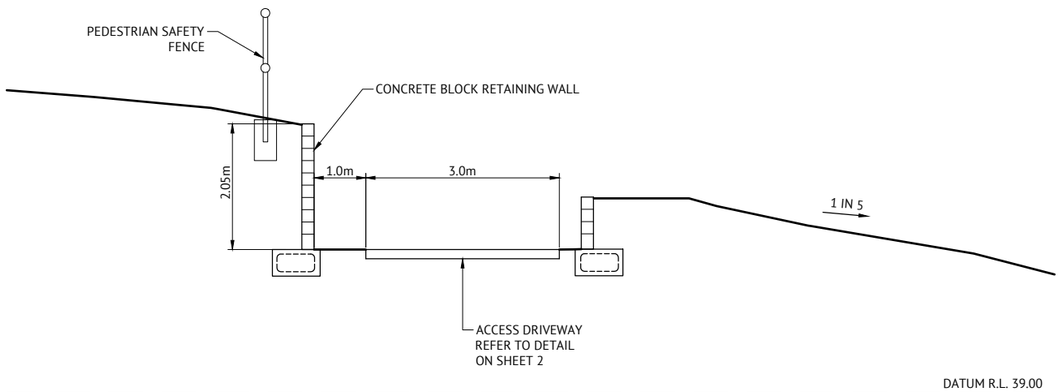




SECTION C
SCALE 1:100



SECTION B
SCALE 1:100



SECTION A
SCALE 1:100

ENERGY DISSIPATOR DESIGN				
OUTLET NAME	d50 (mm)	Lm (m)	W1 (m)	Wm (m)
H.E.S. BASIN	200	5.000	1.450	3.000

ROCK PROTECTION AS DETAILED IN BCC GUIDELINES - STORMWATER OUTLETS IN PARKS AND WATERWAYS.

ENERGY DISSIPATION TREATMENT AT OUTLETS
NOT TO SCALE

LEGEND

- CONCRETE SLAB. REFER DETAILS
- MATERIAL COMPACTED TO 95% MODIFIED
- PEDESTRIAN SAFETY FENCE

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
26/03/18	C	AMENDED SPOT LEVELS ON FLOW SPLITTER ACCESS DRIVEWAY	KH
10/01/18	B	MINOR CHANGES TO PIPES ENTERING FLOW SPLITTER	KH
10/01/18	A	ORIGINAL ISSUE	KH

REVISIONS

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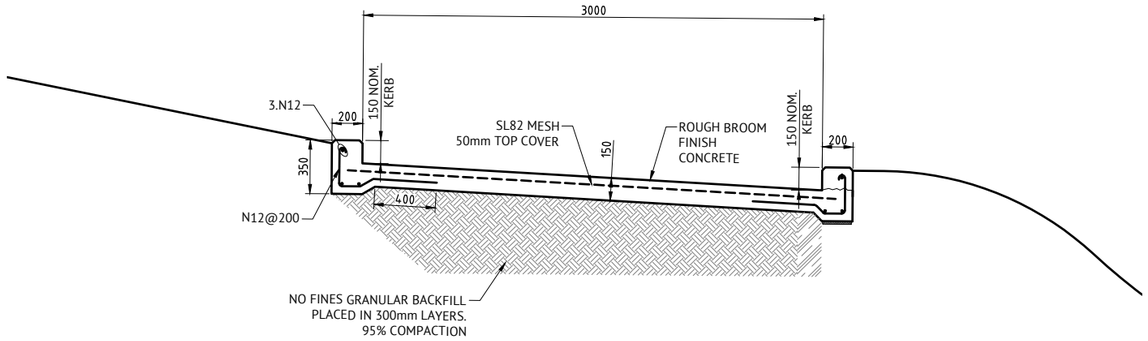
DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 26/03/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 26/03/18
SCALE AS SHOWN

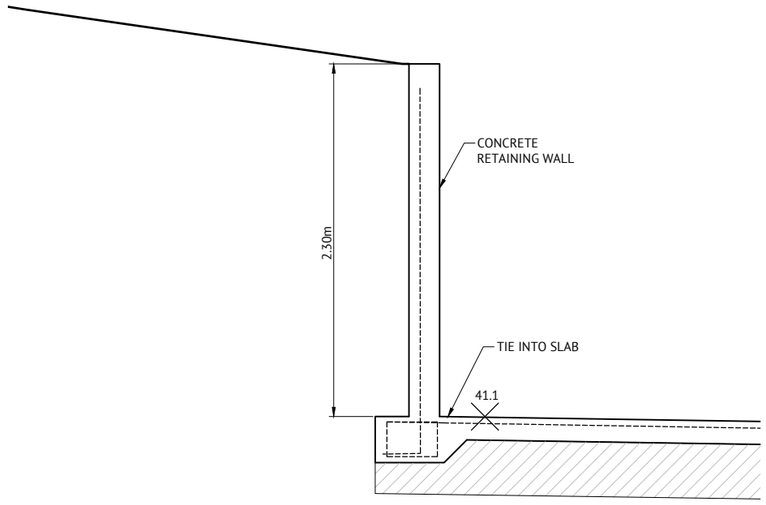
CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER FLOW SPLITTER DETAILS - SHEET 1 OF 2

JOB CODE MIR001-01
SHEET NUMBER C433
REV C

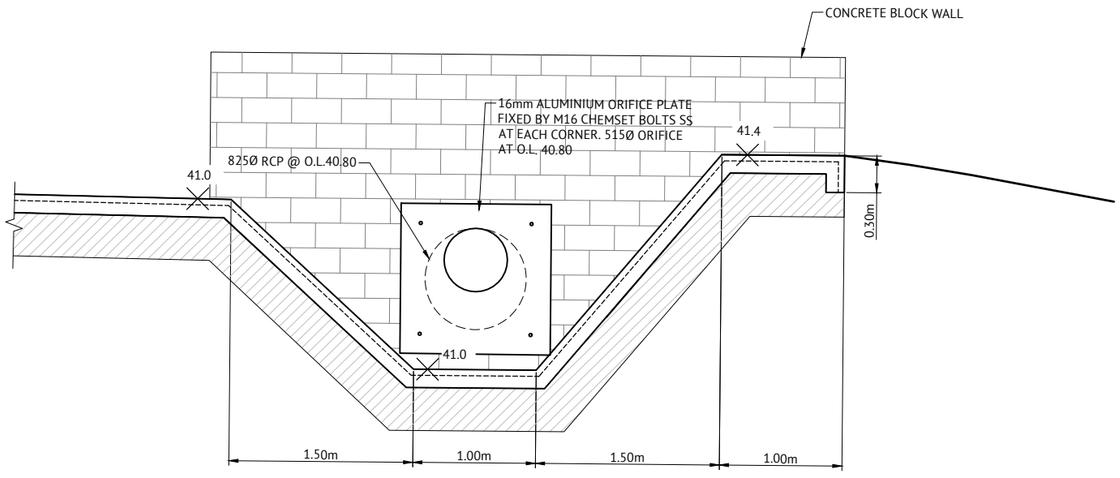


ACCESS DRIVEWAY TYPICAL SECTION

NTS



DETAIL A
SCALE 1:20



ORIFICE PLATE DETAIL

NTS

NOTES:

1. CONCRETE TO BE CONSTRUCTED IN ACCORDANCE WITH AS3600.
2. FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH AS3610
3. ALL CONCRETE TO BE GRADE N32 80mm +-20 SLUMP NOMINAL AGGREGATE SIZE OF 20mm
4. MINIMUM CLEAR COVER TO REINFORCEMENT SHALL BE
5. - 40mm FOR SURFACE NOT IN CONTACT WITH NATURAL GROUND
   - 55mm WHERE CONCRETE SURFACE IS IN CONTACT WITH THE NATURAL GROUND
6. COVER TO REINFORCEMENT SHALL BE MAINTAINED DURING POURING BY THE USE OF APPROVED CHAIRS.
7. DIMENSIONS IN MILLIMETRES (UNO)
8. DRIVEWAY TO BE SUPPORTED ON FIRM COMPACTED SUBBASE OF CBR 5 OR GREATER.
9. FOR RETAINING WALL ASSUME MAX SURCHARGE LOAD 2.5kPa

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
06/10/17	A	ORIGINAL ISSUE	KH

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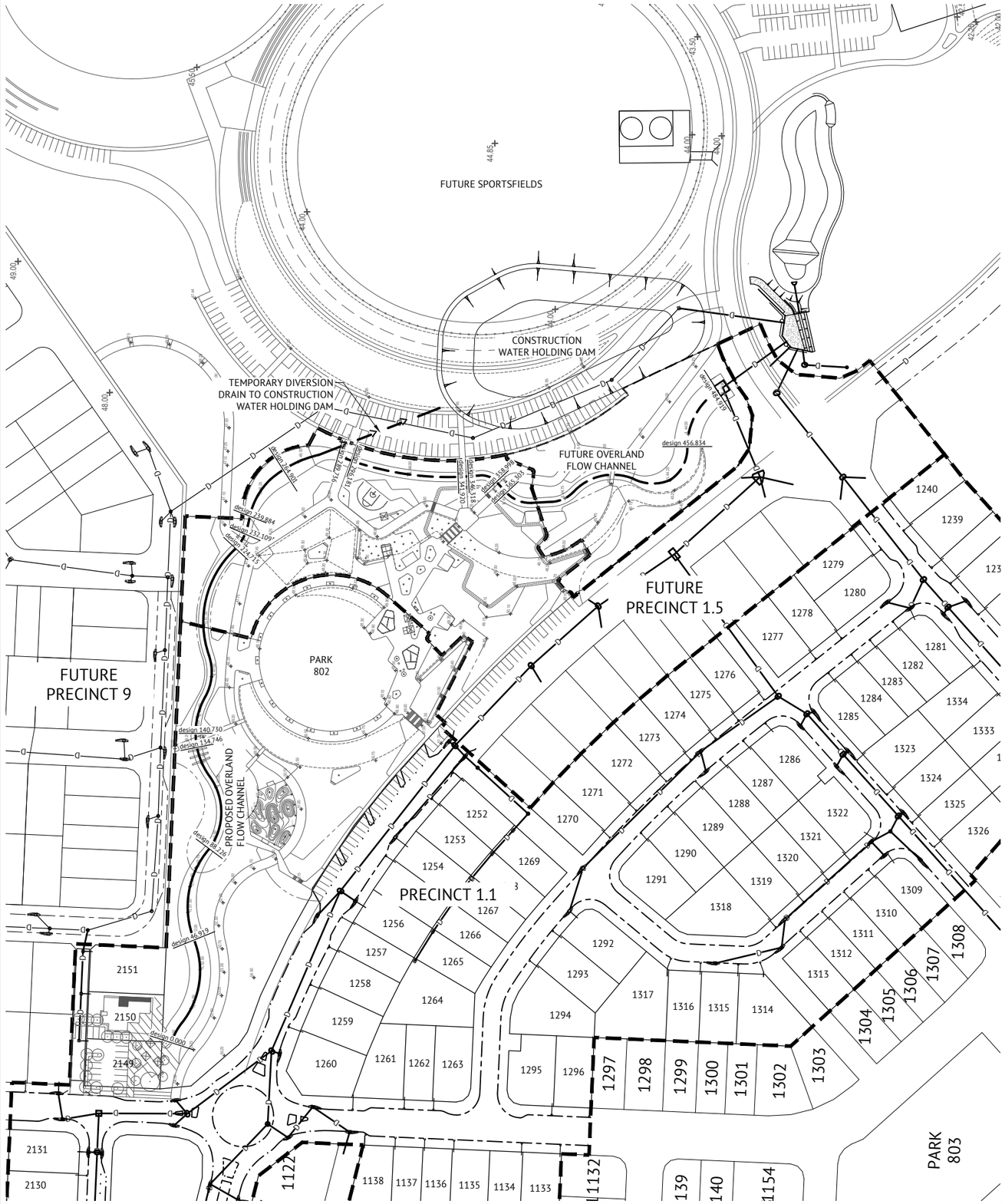
CHECKED	JS		
PROJECT MANAGER	JS		
PROJECT DIRECTOR	JOSHUA STONE	DATE	06/10/17

RPEQ K. Howells KEVIN HOWELLS RPEQ 7295 DATE 06/10/17
SCALE

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER FLOW SPLITTER DETAILS - SHEET 2 OF 2

JOB CODE	
MIR001-01	
SHEET NUMBER	REV
C434	A

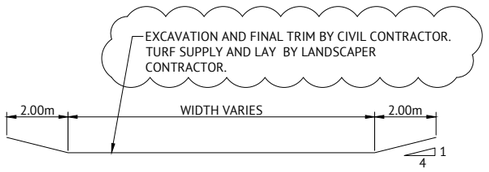


* REFER TO FORM LANDSCAPE ARCHITECT LANDSCAPING DRAWINGS FOR DETAILS ON FINAL CHANNEL ALIGNMENT AND LEVELS. CIVIL CONTRACTOR SHALL CO-ORDINATE WITH THE LANDSCAPING CONTRACTOR TO ENSURE CIVIL EARTHWORKS ACCOMMODATE LANDSCAPE CHANNEL DESIGN.

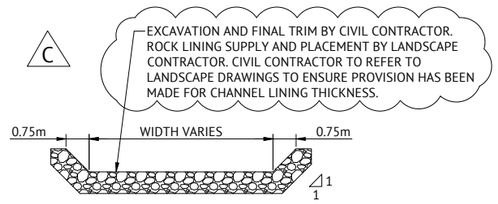
C

CHANNEL CHAINAGE	INVERT LEVEL	MATERIAL + MANNINGS 'n'	ASSUMED SLOPE (%)	BASE WIDTH (m)	BATTER	Q100 DEPTH (m)	VELOCITY (m/s)	DEPTH *VELOCITY (m^2/s)
0	*							
		GRASS (0.03)	*	*	*	0.22	2.00	0.44
46.92	*							
		GRASS (0.03)	*	*	*	0.62	1.88	0.70
88.23	*							
		ROCK (0.04)	*	*	*	0.71	3.10	1.96
134.75	*							
		ROCK (0.04)	*	*	*	0.79	2.71	1.76
140.73	*							
		ROCK (0.04)	*	*	*	0.70	2.41	1.73
224.72	*							
		ROCK (0.04)	*	*	*	0.64	2.13	1.41
232.11	*							
		ROCK (0.04)	*	*	*	0.44	2.55	1.29
239.88	*							
		GRASS (0.03)	*	*	*	0.49	1.43	0.60
264.90	*							
		GRASS (0.03)	*	*	*	0.71	1.48	0.82
289.74	*							
		ROCK (0.04)	*	*	*	0.74	1.80	1.27
296.18	*							
		ROCK (0.04)	*	*	*	0.71	1.74	1.22
341.92	*							
		ROCK (0.04)	*	*	*	0.74	1.82	1.27
346.32	*							
		ROCK (0.04)	*	*	*	0.70	1.87	1.29
359.000	*							
		ROCK (0.04)	*	*	*	0.72	1.57	1.26
365.30	*							
		ROCK (0.04)	*	*	*	0.42	1.77	0.97
423.53	*							
		GRASS (0.03)	*	*	*	0.51	1.58	0.69
456.83	*							
		GRASS (0.03)	*	*	*	0.42	1.61	0.71
484.92	*							

C C



GRASS CHANNEL
TYPICAL SECTION
SCALE: 1:100



ROCK-LINED CHANNEL
TYPICAL SECTION
SCALE: 1:100

27/06/18 CONSTRUCTION ISSUE

DATE	REV	DESCRIPTION	RPEQ
22/06/18	C	AMENDED OVERLAND FLOW DETAILS AND NOTES	KH
10/11/17	B	CIVIL AND LANDSCAPE CONTRACTOR SCOPE DELINEATION CLARIFIED	KH
10/11/17	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MM	
CHECKED	JS	
PROJECT MANAGER	JS	
PROJECT DIRECTOR	JOSHUA STONE	DATE 22/06/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 22/06/18

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.1 SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE OVERLAND FLOW CHANNEL

JOB CODE MIR001-01
SHEET NUMBER C435
REV C