EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT TEVIOT ROAD, GREENBANK FOR MIRVAC

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
C001	COVER SHEET LOCALITY PLAN & DRAWING SCHEDULE
C002	SURVEY SETOUT PLAN
C003	OVERALL SERVICES LAYOUT
C004	SAFETY IN DESIGN PLAN
C100	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2
C101	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2
C200	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 3
C201	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 3
C202	EARTHWORKS LAYOUT PLAN - SHEET 3 OF 3
C203	EARTHWORKS NOTES AND DETAILS
C204	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS
C300	ROADWORKS TYPICAL SECTIONS & NOTES
C301	KESSELS BOULEVARD LONGITUDINAL SECTIONS
C302	KESSELS BOULEVARD CROSS SECTIONS - SHEET 1 OF 3
C303	KESSELS BOULEVARD CROSS SECTIONS - SHEET 2 OF 3
C304	KESSELS BOULEVARD CROSS SECTIONS - SHEET 3 OF 3
C305	TEAL CIRCUIT LONGITUDINAL SECTIONS
C306	TEAL CIRCUIT CROSS SECTIONS
C307	GRASS LANE LONGITUDINAL AND CROSS SECTIONS
C308	LEAF STREET LONGITUDINAL AND CROSS SECTIONS
C309	LEAF STREET CROSS SECTIONS
C310	DRIVEWAY 3 LONGITUDINAL AND CROSS SECTIONS
C311	GROVE STREET LONGITUDINAL AND CROSS SECTIONS
C312	AMAZON WAY LONGITUDINAL SECTIONS
C313	AMAZON WAY CROSS SECTIONS
C314	EMERALD PARADE LONGITUDINAL AND CROSS SECTIONS
C315	HEDGE LANE LONGITUDINAL & CROSS SECTIONS
C316	INTERSECTION DETAILS PLAN - SHEET 1 OF 2
C317	INTERSECTION DETAILS PLAN - SHEET 2 OF 2
C318	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C319	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2
C400	STORMWATER DRAINAGE DETAILS AND NOTES
C401	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2
C402	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 2 OF 2
C403	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 5
C404	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 5
C405	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 5
C406	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4 OF 5
C407	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5 OF 5
C408	Q2 MINOR STORM CALCULATIONS - 1 OF 3
C409	Q2 MINOR STORM CALCULATIONS - 2 OF 3
C410	Q2 MINOR STORM CALCULATIONS - 3 OF 3
C411	Q100 MAJOR STORM CALCULATIONS - 1 OF 3
C412	Q100 MAJOR STORM CALCULATIONS - 2 OF 3
C413	Q100 MAJOR STORM CALCULATIONS - 3 OF 3
C414	STORMWATER STRUCTURE DETAILS - SHEET 1 OF 3
C415	STORMWATER STRUCTURE DETAILS - SHEET 2 OF 3
C416	STORMWATER STRUCTURE DETAILS - SHEET 3 OF 3
C500	SEWERAGE RETICULATION LOCALITY PLAN & NOTES
C501	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C502	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C503	SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 4
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 4
C505	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 4
C506	SEWERAGE RETICULATION LONG SECTIONS - SHEET 4 OF 4
C507	SEWERAGE RETICULATION NOTES AND DETAILS
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C601	WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2
C602	WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2
C700	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE
C701	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS PHASE
C702	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE
C703	EROSION & SEDIMENT CONTROL SECTIONS & DETAILS - SHEET 1
C704	EROSION & SEDIMENT CONTROL SECTIONS & DETAILS - SHEET 2
C800	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2
C801	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2
S001	STORMWATER STRUCTURAL NOTES
S100	STORMWATER REINFORCED CONCRETE PIT ARRANGEMENT
S101	STORMWATER REINFORCED CONCRETE PIT DETAILS

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

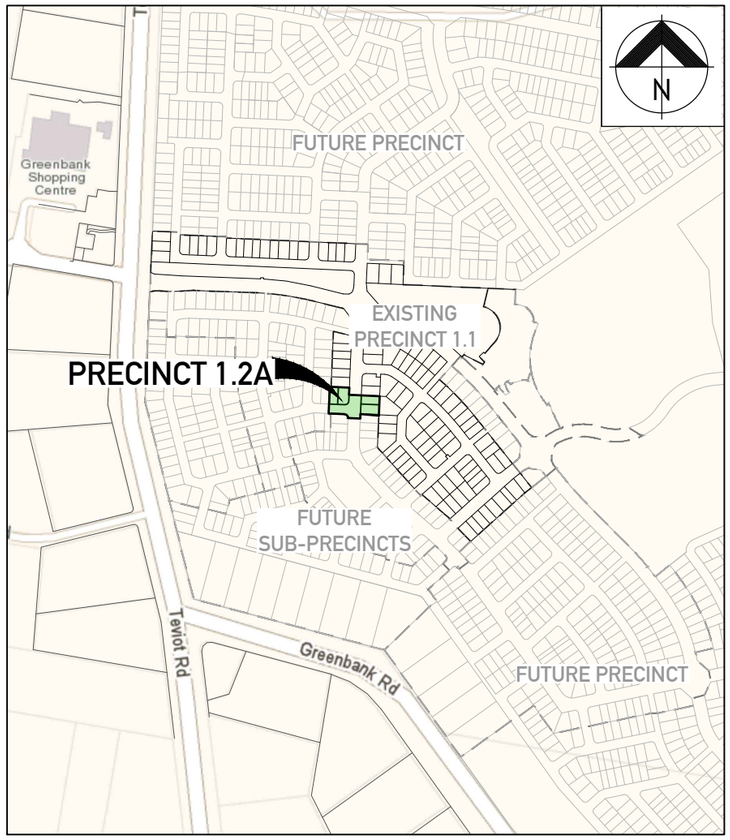
1. NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
2. THE CONTRACTOR IS RESPONSIBLE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

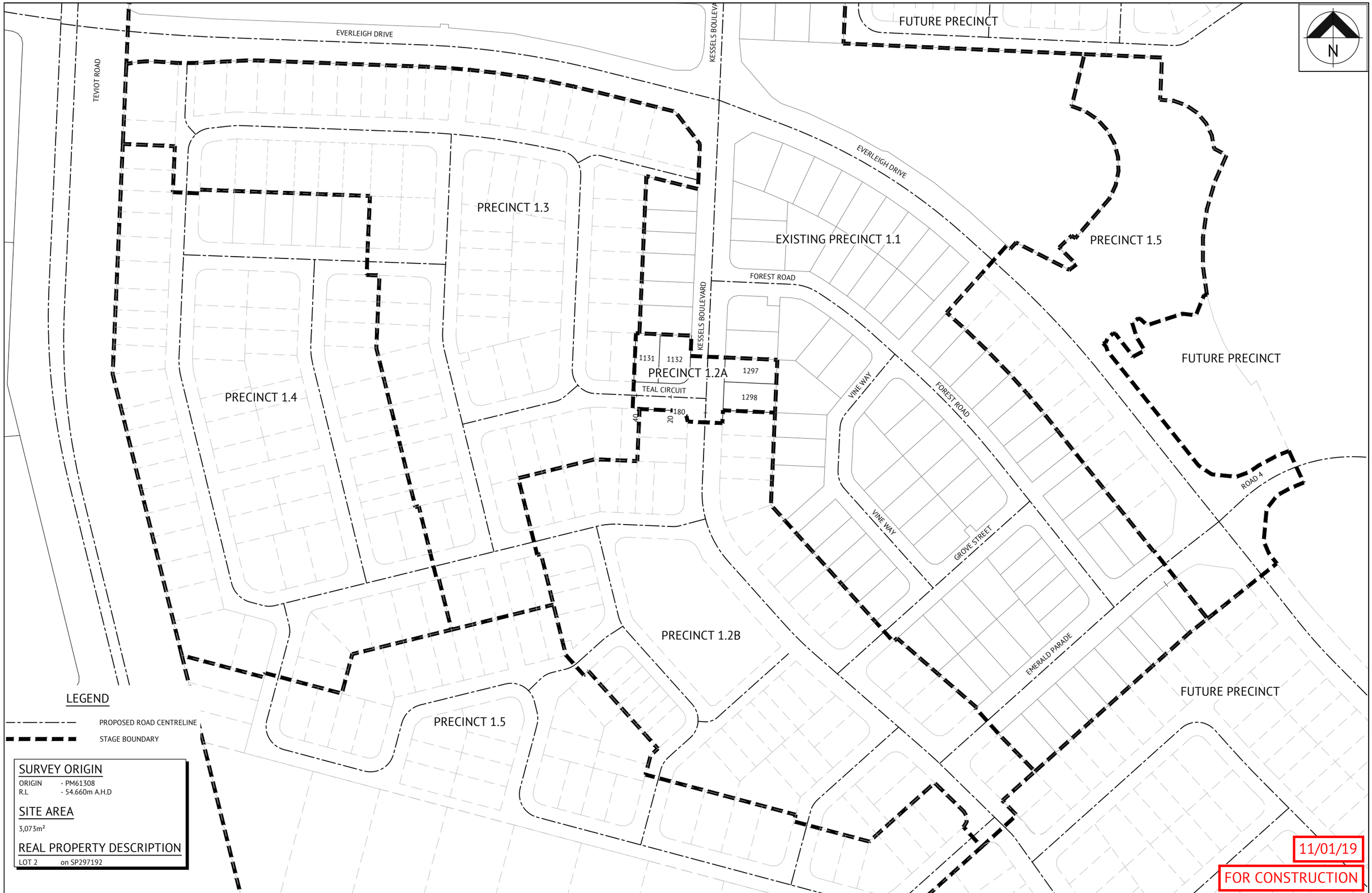
SCALE 1:5000 (A1)

Premise

11/01/19

FOR CONSTRUCTION

PROJECT DIRECTOR	DATE	RPEQ	DATE	REVISION
JOSHUA STONE	02/07/18	KEITH HOWELLS RPEQ 7295	02/07/18	A



DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH

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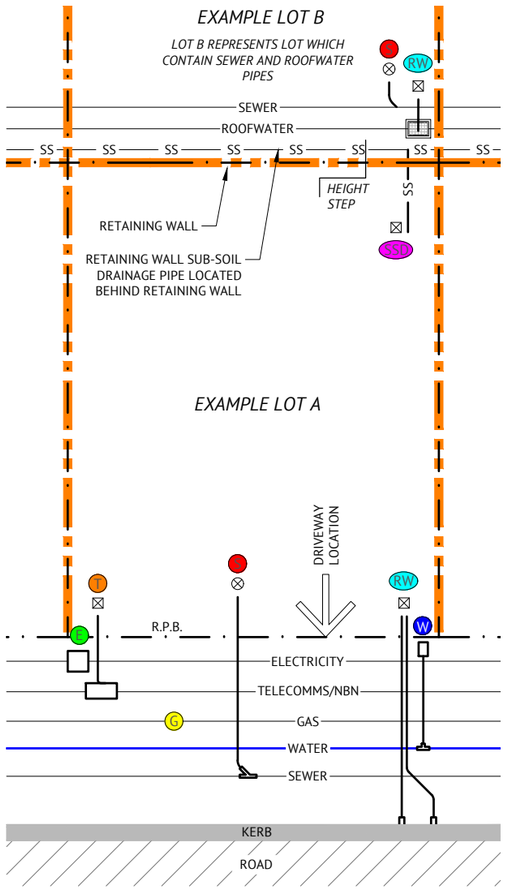
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ — KEITH HOWELLS — RPEQ 7295 — DATE 02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SURVEY SETOUT PLAN

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C002	A



TYPICAL PROPERTY SERVICES CONNECTIONS DETAIL

NTS

LEGEND - PROPERTY SERVICE CONNECTIONS

W **WATER** - POLY SERVICE FROM WATER MAIN, METER BOX & COVER INSTALLED. BUILDER TO MAKE APPLICATION TO LOGAN CITY COUNCIL FOR METER ASSEMBLY SUPPLY AND INSTALLATION. WHERE WATER METER IS LOCATED BEHIND RETAINING WALL, 25mm POLYPIPE WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900X50X25 HW STAKE LABELLED "WATER".

SEWER - CAPPED Ø100 PVC PIPE (BURIED MAX 1.5m). MARKED WITH 40Ø ORANGE PVC CONDUIT AT SURFACE (BURIED TO CAPPED PIPE). CONDUIT LABELLED "SEWER."

RW **ROOFWATER** - CONNECTION LOCATION CAN BE EITHER FRONT OF LOT VIA KERB ADAPTOR OUTLET TO ROAD, OR REAR OF LOT INTO ROOFWATER DRAINAGE PIPE VIA PIT. CAPPED PVC Ø100 PIPES (BURIED MAX 1.5m) MARKED WITH 900x50x25 HW STAKE LABELLED "ROOFWATER."

RSSD **RETAINING WALL SUB-SOIL DRAINAGE** - OUTLET POINT TO LOT FOR RETAINING WALL SUB-SOIL DRAINAGE TO BE CONNECTED TO YARD DRAINAGE BY BUILDER. Ø100 NON-SLOTTED AGG PIPE CAPPED AND TERMINATED 200m ABOVE SURFACE. PVC DUCT TAPED TO 900x50x25 HW STAKE LABELLED "RETAINING WALL SUBSOIL OUTLET".

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

E **ELECTRICITY** - ELECTRICITY PILLAR EXISTS IN ROAD VERGE. BUILDER TO MAKE APPLICATION WITH ENERGY PROVIDER FOR SERVICE INSTALLATION TO LOT. WHERE ELECTRICITY PILLAR IS LOCATED BEHIND RETAINING WALL, CONDUIT WILL BE SUPPLIED UNDER WALL INTO LOT AND WILL BE MARKED WITH 900x50x25 HW STAKE LABELLED "ELECTRICITY".

G **GAS** - GAS MAIN EXISTS IN ROAD VERGE. BUILDER/HOME OWNER TO MAKE APPLICATION TO GAS PROVIDER FOR SERVICE INSTALLATION TO LOT.

RETAINING WALL

⊗ ⊠ SERVICE TERMINATION POINT MARKER. 900x50x25 HW STAKE, OR 40Ø ORANGE PVC CONDUIT STAKE

LEGEND - PROPOSED

D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
TS	TRUNK SEWER
W	WATER
E	ELECTICITY

LEGEND - EXISTING

D	STORMWATER
S	GRAVITY SEWER
RM	SEWER RISING MAIN
TS	TRUNK SEWER
W	WATER
E	ELECTICITY

N

FUTURE PRECINCT 1.3

EXISTING PRECINCT 1.1

FUTURE PRECINCT 1.5

FUTURE PRECINCT 1.2B

FUTURE PRECINCT 1.5

FUTURE PRECINCT 2

KESSELS BOULEVARD

FOREST ROAD

TEAL CIRCUIT

VINE WAY

GROVE STREET

EMERALD PARADE

11/01/19

FOR CONSTRUCTION

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CHECKED	MICHAEL MAZNER	KEITH HOWELLS	02/07/18
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PROJECT DIRECTOR	JOSHUA STONE	SCALE	DATE
		0 20 40 60m	02/07/18
		SCALE 1:1000 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OVERALL SERVICES LAYOUT

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C003	A

DESIGN HAZARD NOTES:

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

CONSEQUENCE TABLE

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

CONSTRUCTION HAZARD NOTES:

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

RISK ANALYSIS MATRIX

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

RISK EVALUATION TABLE

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

LIKELIHOOD TABLE

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

DESIGN HAZARD SCHEDULE

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

CONSTRUCTION HAZARD SCHEDULE

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

11/01/19

FOR CONSTRUCTION

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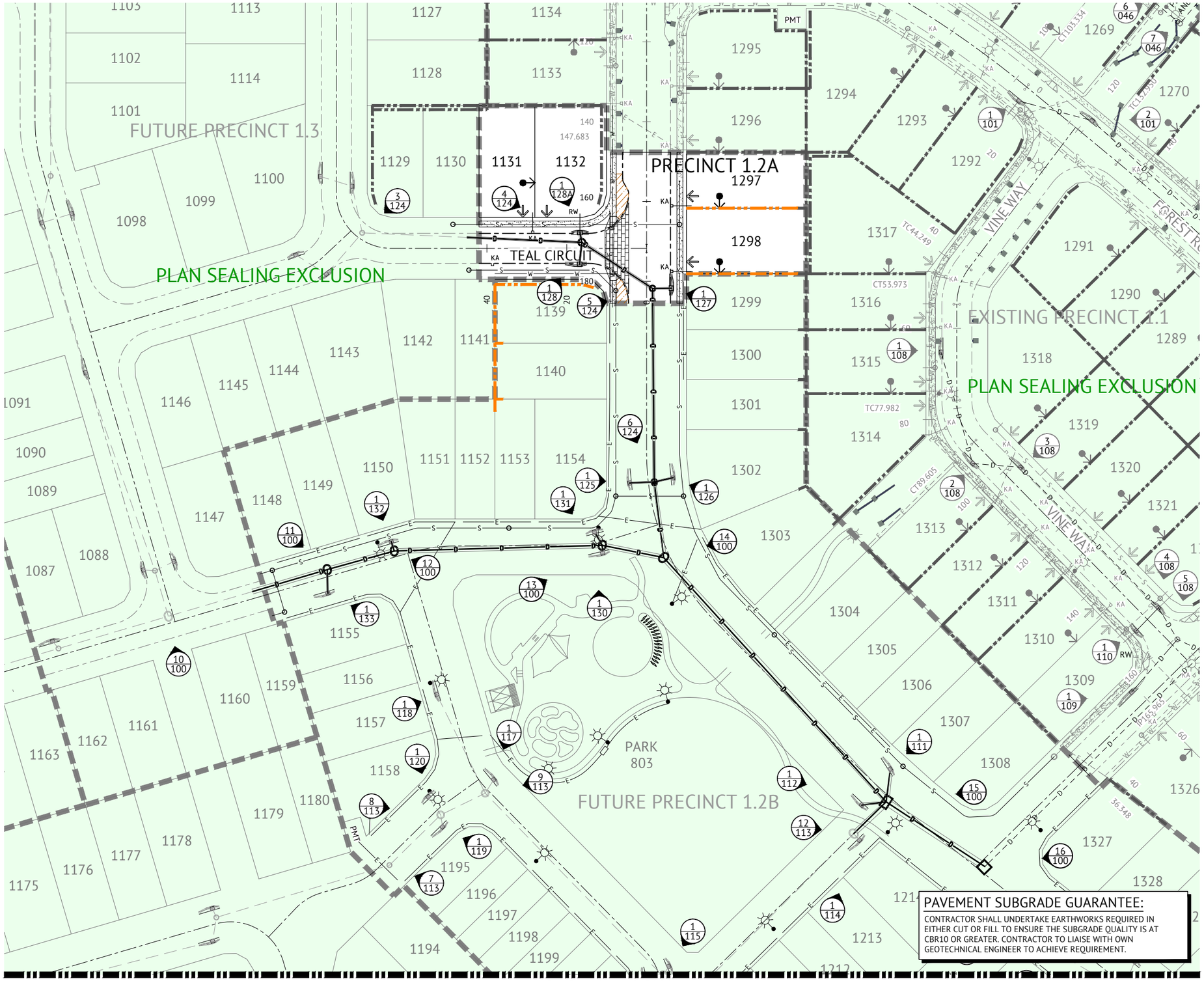
PROJECT DIRECTOR	JOSHUA STONE	SCALE	DATE 02/07/18

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SAFETY IN DESIGN PLAN
JOB CODE	MIR001-02A
SHEET NUMBER	C004
REV	A



JOINS DRAWING C101

LEGEND - PROPOSED

- 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 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.
- D — PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C400.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C400.
- KA — ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C400.
- RW — PROPOSED ROOFWATER HOUSE CONNECTION (100 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- S — PROPOSED SEWER
- W — PROPOSED WATER
- 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.

LEGEND - EXISTING

- D — EXISTING STORMWATER
- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICAL
- T — EXISTING TELSTRA
- G — EXISTING GAS
- EXISTING RETAINING WALL
- EXISTING STORMWATER STRUCTURE No.

11/01/19 FOR CONSTRUCTION

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

PAVEMENT SUBGRADE GUARANTEE:

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

STORMWATER TRENCH BACKFILL NOTE:

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

DATE	REV	DESCRIPTION	RPEQ
21/09/18	C	UPDATED KERB ADAPTOR FOR LOT 1141 AND MINOR AMENDMENTS TO LEGEND	KH
06/09/18	B	ADDED NOTE	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	21/09/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 21/09/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C100	C

JOINS DRAWING C100

N

PARK 803

FUTURE PRECINCT 1.2B

EXISTING PRECINCT 1.1

FUTURE PRECINCT 1.5

PLAN SEALING EXCLUSION

PLAN SEALING EXCLUSION

FUTURE PRECINCT 2

VINE WAY

GROVE STREET

EMERALD PARADE

- 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.

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

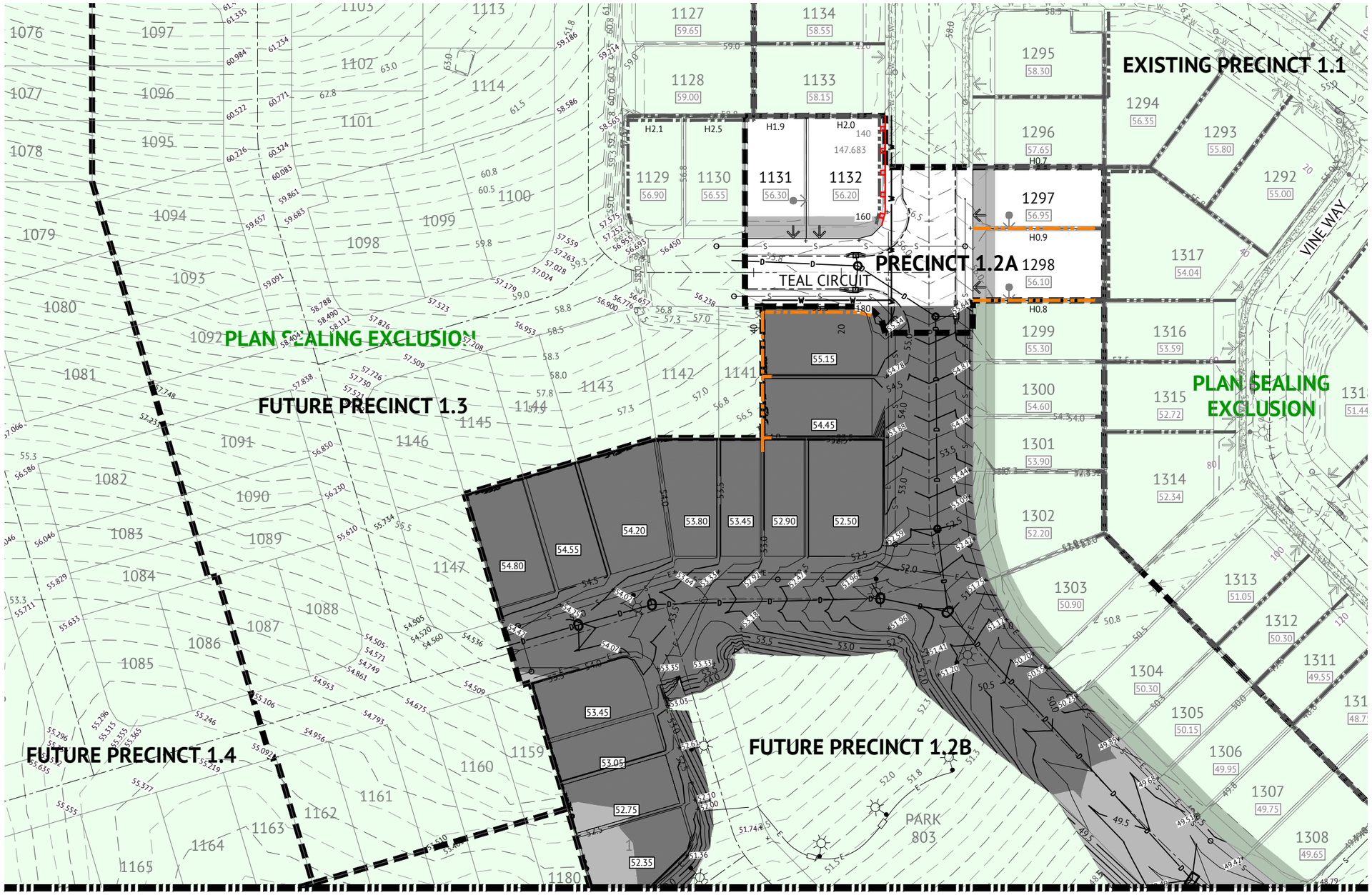
RPEQ: KEITH HOWELLS RPEQ 7295 — DATE 02/07/18

SCALE: 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C101	A



JOINS DRAWING C201

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.10m)
- 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
- PROPOSED MASONRY WALL TO ENERGEX STANDARDS
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25+ — FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- STAGE BOUNDARY

LEGEND - EXISTING

- EXISTING RETAINING WALL
- 12.0 — EXISTING CONTOURS (0.50m)
- D — EXISTING STORMWATER
- S — EXISTING SEWER
- W — EXISTING WATER
- E — EXISTING ELECTRICITY
- T — EXISTING TELECOMMUNICATIONS
- G — EXISTING GAS

RETAINING WALL DESIGN:

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

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. C203 - EARTHWORKS NOTES AND DETAILS.

PAD MOUNTED TRANSFORMER NOTE

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

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.

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
08/08/18	B	PAD FRONT BDY OFFSET REDUCED TO 3M & MINOR EARTHWORKS ALONG P1.1 INTERFACE WITHI LOTS	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	08/08/18
RPEQ	KEITH HOWELLS	DATE	08/08/18
		RPEQ	7295

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C200	B

JOINS DRAWING C200

JOINS DRAWING C203

FUTURE PRECINCT 1.3

FUTURE PRECINCT 1.2B

PLAN SEALING EXCLUSION

PLAN SEALING EXCLUSION

EXISTING PRECINCT 1.1

FUTURE PRECINCT 1.5

FUTURE PRECINCT 1.5

PARK 803

VINE WAY

GROVE STREET

EMERALD P

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C203 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C200 FOR LEGEND.

11/01/19

FOR CONSTRUCTION

JOINS DRAWING C202

DATE	REV	DESCRIPTION	RPEQ
08/08/18	B	PAD FRONT BDY OFFSET REDUCED TO 3M & MINOR EARTHWORKS ALONG P1.1 INTERFACE WITHI LOTS	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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		RPEQ	DATE
DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	08/08/18
PROJECT MANAGER	JOSHUA STONE		RPEQ 7295
PROJECT DIRECTOR	JOSHUA STONE		08/08/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C201	B

JOINS DRAWING C201

N

FUTURE PRECINCT 1.2B

PLAN SEALING EXCLUSION

FUTURE PRECINCT 1.5

PARK 803

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C203 - EARTHWORKS NOTES AND DETAILS.
- REFER TO DRAWING No. C200 FOR LEGEND.

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
08/08/18	B	PAD FRONT BDY OFFSET REDUCED TO 3M & MINOR EARTHWORKS ALONG P1.1 INTERFACE WITHI LOTS	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	08/08/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 08/08/18

SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS LAYOUT PLAN - SHEET 3 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C202	B

NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. EARTHWORKS DRAWINGS ARE TO BE READ IN CONJUNCTION WITH DRAWING C001, EROSION AND SEDIMENT CONTROL LAYOUT PLANS AND EROSION AND SEDIMENT CONTROL NOTES AND DETAILS.
3. ALL EARTHWORKS TO BE CARRIED OUT UNDER 'LEVEL ONE' GEOTECHNICAL CONTROL IN ACCORDANCE WITH LOCAL AUTHORITIES AND AS3798.
4. EXCESS CUT TO BE STOCKPILED IN THE LOCATION SHOWN OR AS DIRECTED ON SITE.
5. ALL BATTERS ARE 1 IN 4 UNLESS SHOWN OTHERWISE.

TESTING

1. THE SUPERINTENDENT MAY ORDER ADDITIONAL TESTS. REFER TO THE LOCAL AUTHORITIES 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 THE LOCAL AUTHORITY SPECIFICATION
LOWEST TWO LEVELS OF EMBANKMENT (PER LAYER)	
OTHER LAYERS OF EMBANKMENT	
PREPARED NATURAL GROUND UNDER EMBANKMENT	

2. QUALITY TESTS
   QUALITY TESTS OF IMPORTED MATERIAL ARE REQUIRED AS SET OUT BY LOCAL AUTHORITY.
3. SUBGRADE TESTS
   THE NUMBER AND LOCATION OF PAVEMENT SUBGRADE TESTS SHALL BE 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 SOILSTESTING 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. DUST CONTROL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH AS/NZS3580.10.1:2003. DUST CONTROL SHALL COMPLY WITH THE NSW DEPARTMENT OF ENVIRONMENT AND CONSERVATION REPORT "APPROVED METHODS & GUIDANCE FOR THE MODELLNG AND ASSESSMENT OF AIR POLLUTANTS IN NSW."
2. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN CONTROLS TO ACHIEVE THE REQUIREMENTS OF ITEM 1 ABOVE.

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 OR 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 ON DRG. No. C701.
14. ACCESS TRACKS THROUGH THE SITE WILL BE LIMITED TO THOSE DETERMINED BY THE SUPERINTENDENT AND THE CONTRACTOR PRIOR TO ANY WORK COMMENCING.

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).
- ALLOTMENTS
  CIVIL CONTRACTOR TO RESPREAD 100mm TOPSOIL THICKNESS TO ALLOTMENTS.

TURF

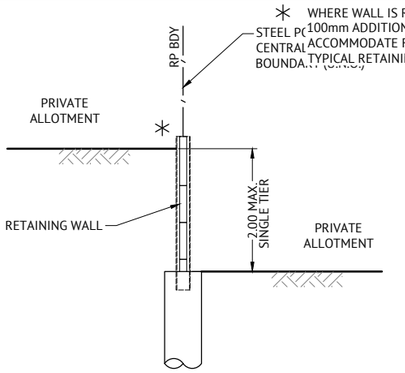
CONTRACTOR SHALL SUPPLY AND LAY TURF TO ROAD VERGES TO FULL WIDTH OF ROAD RESERVE. WHERE VERGE IS LOCATED ADJACENT PARK AND OPEN SPACES, TURF WILL BE SUPPLIED AND INSTALLED BY LANDSCAPING CONTRACTOR.

EARTHWORKS TOLERANCES

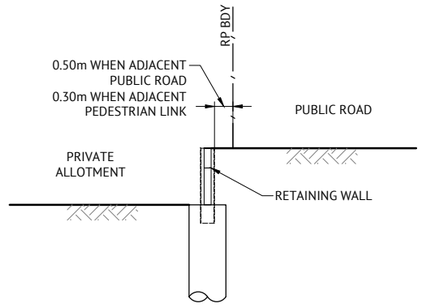
ITEM	TOLERANCE
EARTHWORKS IN ALLOTMENTS AND VERGES (1)	+50mm
	-50mm
CUT BATTERS	+150mm
	-150mm
FILL BATTER	+300mm
	-300mm
EARTHWORKS IN PARKS (2)	+0mm
	-100mm

(1) NOT LESS THAN SPECIFIED LEVELS WHERE ADJACENT DRAINAGE FEATURES.
(2) CONFIRM WITH CONTRACT WHETHER TOPSOIL RESPREADED BY LANDSCAPER.

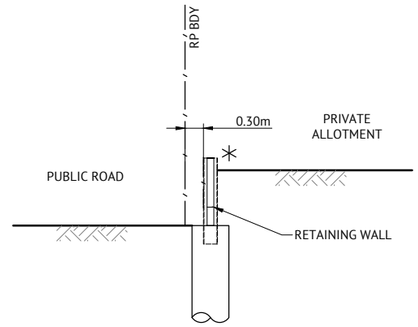
C



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

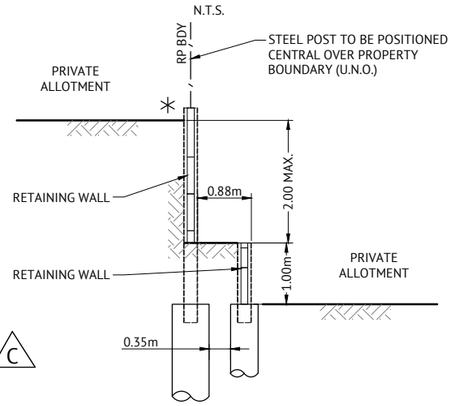


TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE
ROAD LEVEL IS HIGHER



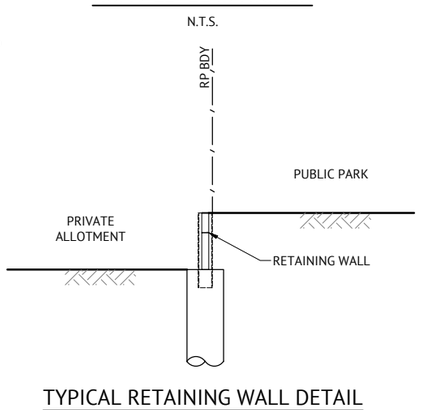
TYPICAL RETAINING WALL DETAIL
ROAD ADJACENT TO LOT WHERE
LOT LEVEL IS HIGHER

N.T.S.



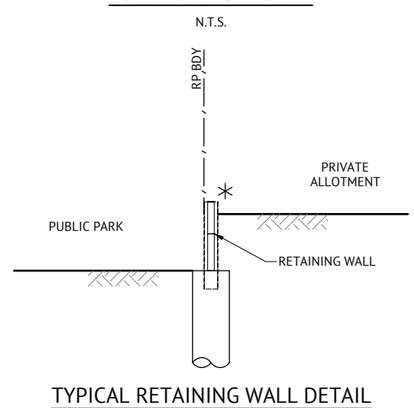
TYPICAL RETAINING WALL DETAIL
INTER ALLOTMENT
2m-3m MAX HIGH

N.T.S.



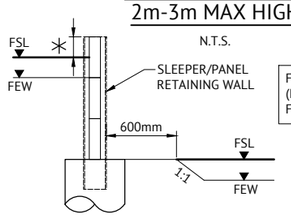
TYPICAL RETAINING WALL DETAIL
PARK ADJACENT TO LOT WHERE
PARK LEVEL IS HIGHER

N.T.S.



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

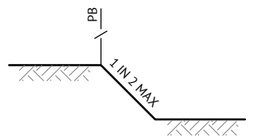
N.T.S.



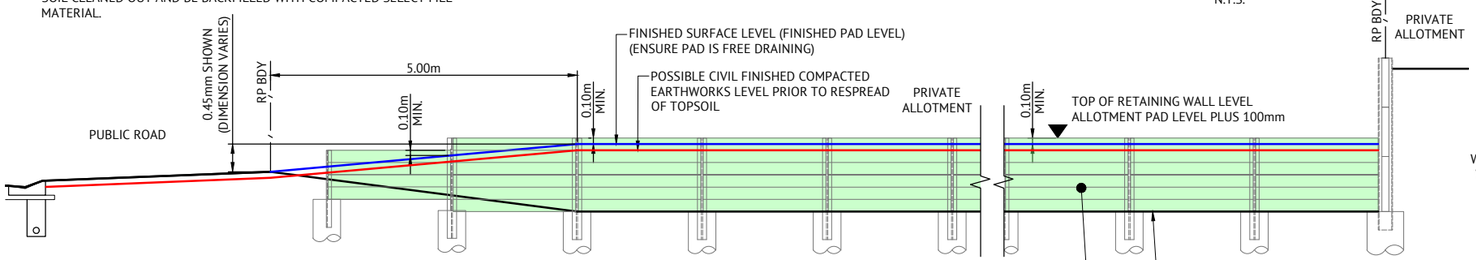
FSL - FINISHED SURFACE LEVEL (INCLUDING TOPSOIL)
FEW - FINISHED BULK EARTHWORKS LEVEL

TYPICAL RETAINING WALL TOP AND BOTTOM
FINISHING LEVEL DETAIL

N.T.S.

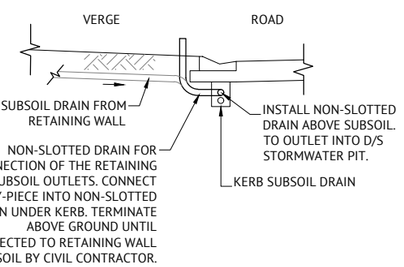


TYPICAL SECTION FOR
BATTERS BETWEEN LOTS
SCALE 1:20



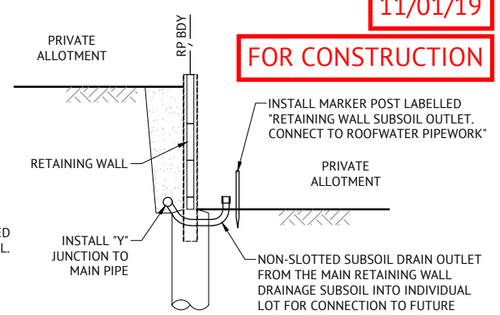
TYPICAL INTER ALLOTMENT RETAINING WALL TOP OF WALL
SETOUT AND END DETAIL

N.T.S.



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.

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
10/01/19	C	ADDED EARTHWORKS TOLERANCES	KH
06/09/18	B	AMENDED TYPICAL RETAINING WALL TOP & BOTTOM FINISHING LEVEL DETAIL	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

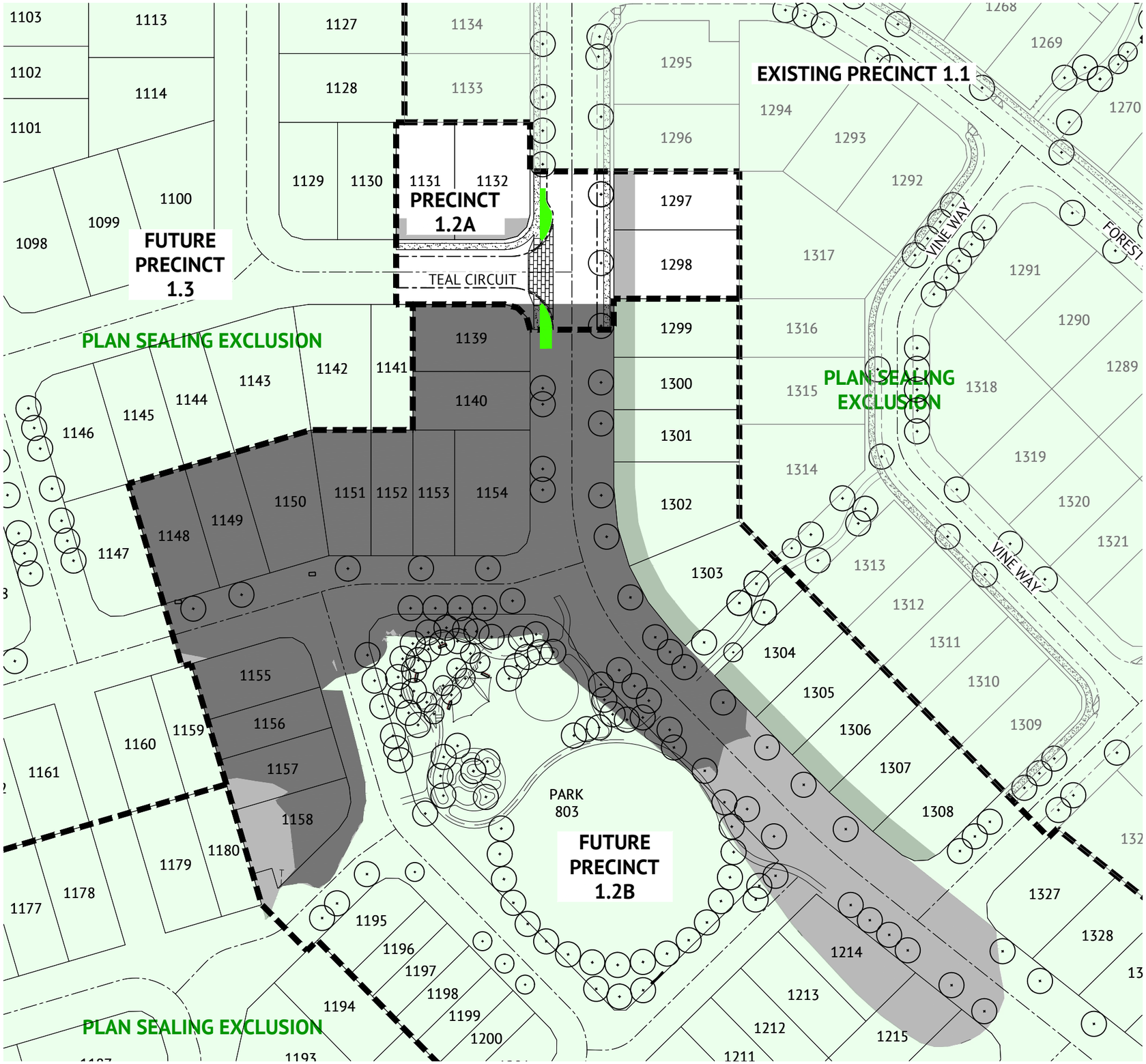
Premise

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

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	10/01/19
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	10/01/19		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS NOTES AND DETAILS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C203	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 FINISHED EARTHWORKS LEVEL AND RECOMPACTED TO LEVEL ONE CERTIFICATION.

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	
13/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	13/07/18

RPEQ: KEITH HOWELLS RPEQ 7295 — DATE 13/07/18

SCALE: 0 10 20 30m — SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS SUBGRADE ROCK PREPARATION DETAILS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C204	A

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

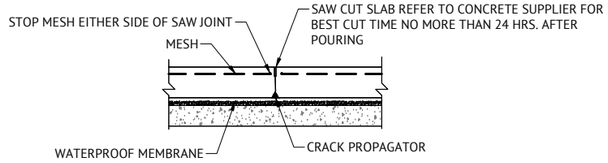
1. THE CONCRETE PAVEMENT HAS BEEN DESIGNED BASED ON A CBR 5 AND IS SUBJECT TO CONFIRMATION UPON RECEIPT OF CBR TEST RESULT AT TIME OF CONSTRUCTION.
2. CONCRETE PAVEMENT SPECIFICATION:

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

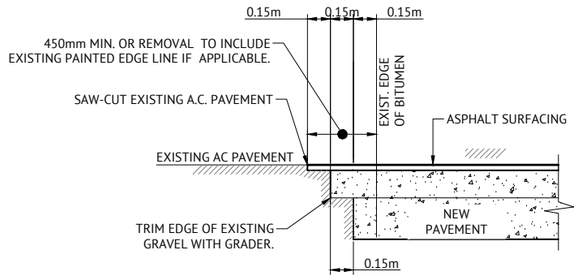
3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
4. PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
5. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
6. ALL JOINTS ARE 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.

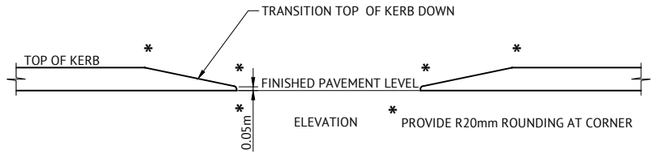


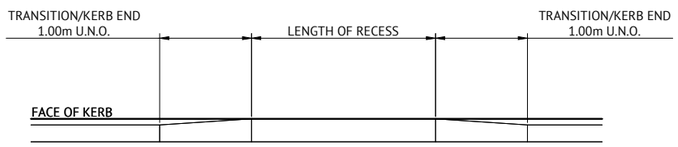
SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S

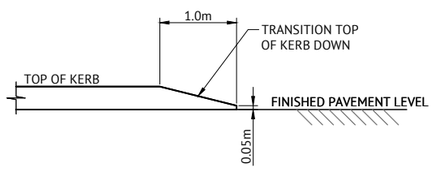




PLAN

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	

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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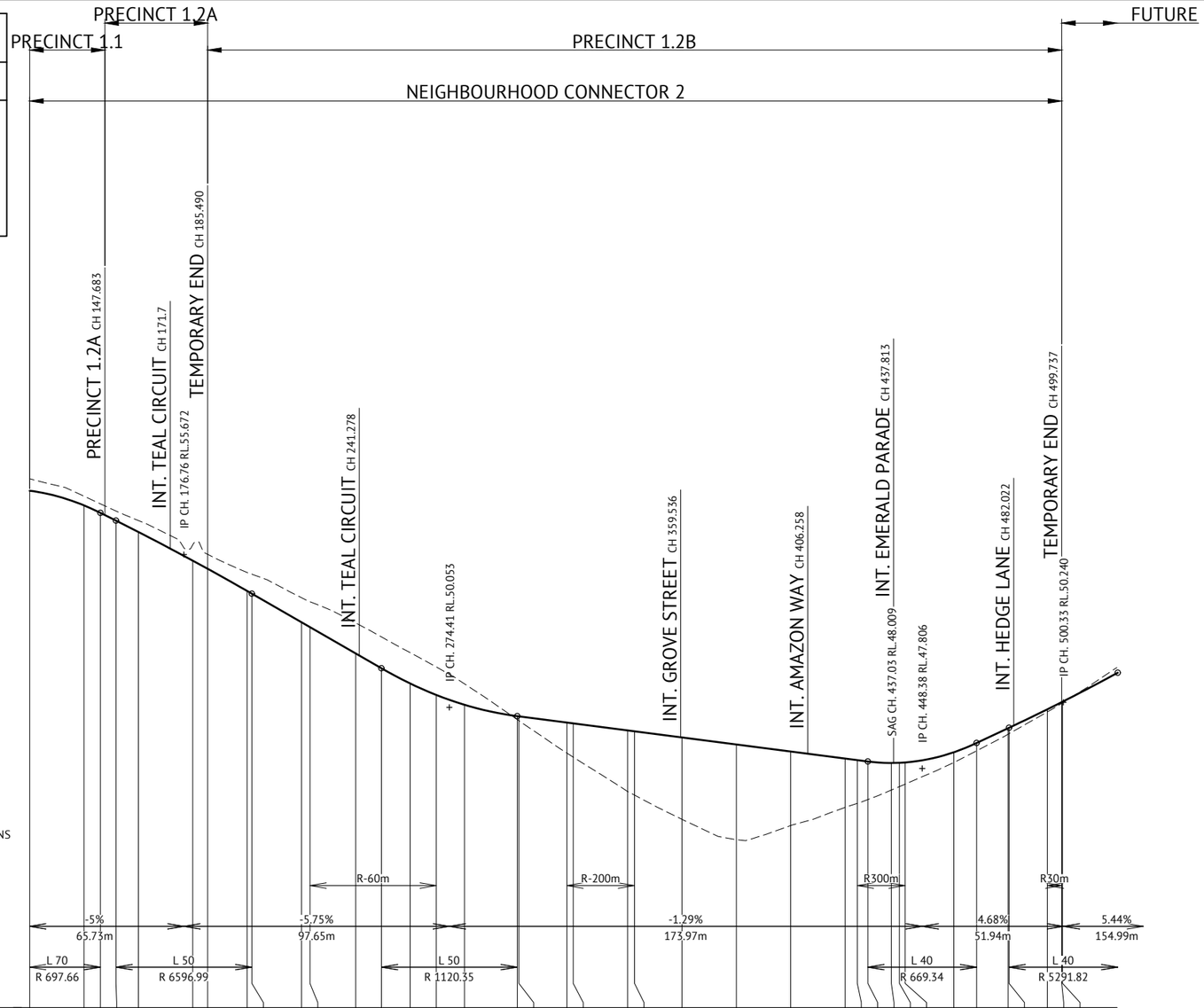
DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	0 5 10 15m
PROJECT DIRECTOR	JOSHUA STONE DATE 02/07/18	SCALE 1:250 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	ROADWORKS TYPICAL SECTIONS & NOTES

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C300	A

PAVEMENT DESIGN		
ROADS	-	KESSELS BOULEVARD
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

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



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.39.0

CHAINAGE	120.00	140.00	146.03	151.76	160.00	180.00	200.00	201.76	220.00	223.13	240.00	249.41	260.00	269.62	280.00	299.41	300.00	317.67	320.00	340.00	342.53	360.00	380.00	400.00	420.00	424.52	428.38	437.03	440.00	442.11	460.00	468.38	480.00	480.33	494.44	499.74	500.00	520.00
NATURAL SURFACE	58.460	57.820	57.538	57.276	56.925	56.028	55.015	54.951	54.088	53.939	53.156	52.647	52.066	51.539	50.916	49.605	49.564	48.372	48.223	46.957	46.827	45.936	45.189	45.707	46.374	46.522	46.662	47.011	47.139	47.230	48.024	48.455	49.067	49.086	49.885	50.202	50.219	51.517
DESIGN SURFACE	58.022	57.482	57.207	56.921	56.504	55.449	54.334	54.233	53.183	53.004	52.033	51.491	50.932	50.511	50.149	49.730	49.722	49.494	49.464	49.206	49.173	48.947	48.689	48.431	48.173	48.114	48.064	48.009	48.015	48.028	48.403	48.743	49.287	49.303	49.982	50.248	50.261	51.310
RHS LIP LEVEL	57.879	57.339	57.064	56.777	56.398	✳	54.191	54.090	53.040	52.860	✳	50.831	50.409	50.047	49.591	49.583	49.355	49.325	49.062	49.030	48.804	48.577	✳	48.029	47.971	47.921	47.865	47.872	47.885	48.260	✳	50.104	50.118	51.167				
LHS LIP LEVEL	57.891	57.339	57.064	56.777	56.361	55.306	54.191	54.090	53.040	52.860	51.889	51.348	50.791	50.405	50.043	49.586	49.579	49.351	49.321	49.100	✳	48.555	48.288	48.029	47.971	47.921	✳	48.260	48.600	49.144	49.159	49.839	50.104	50.118	51.167			
CUT (-)/FILL DEPTH	-0.438	-0.337	-0.331	-0.355	-0.422	-0.579	-0.681	-0.718	-0.904	-0.936	-1.123	-1.156	-1.134	-1.028	-0.768	0.125	0.158	1.122	1.240	2.248	2.346	3.012	3.500	2.724	1.799	1.592	1.402	0.997	0.876	0.798	0.379	0.288	0.220	0.216	0.098	0.045	0.042	-0.207

KESSELS BOULEVARD LONGITUDINAL SECTION

11/01/19

FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

Premise

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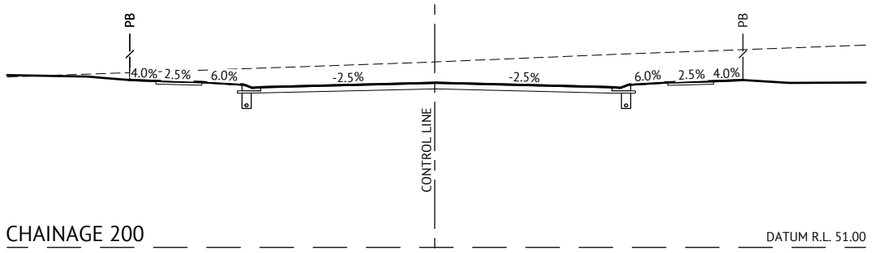
DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD LONGITUDINAL SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C301	A



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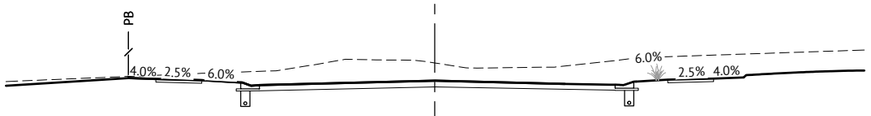

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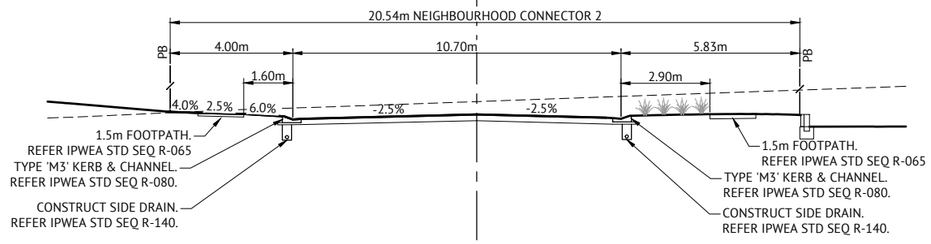

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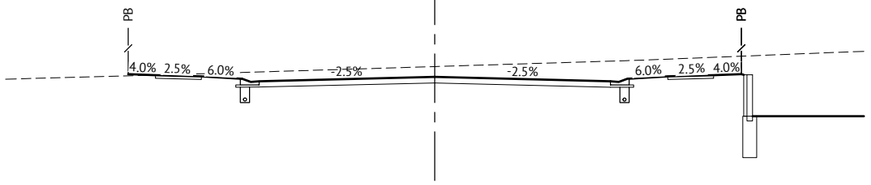

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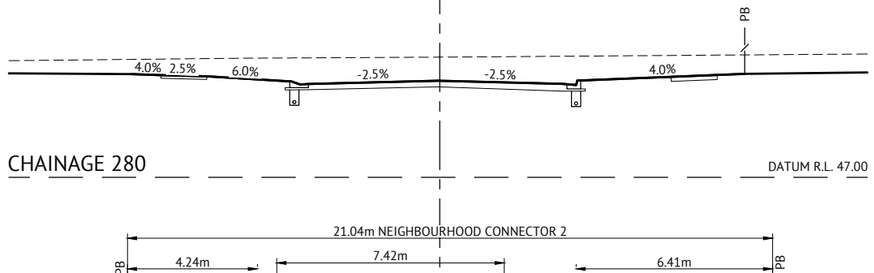

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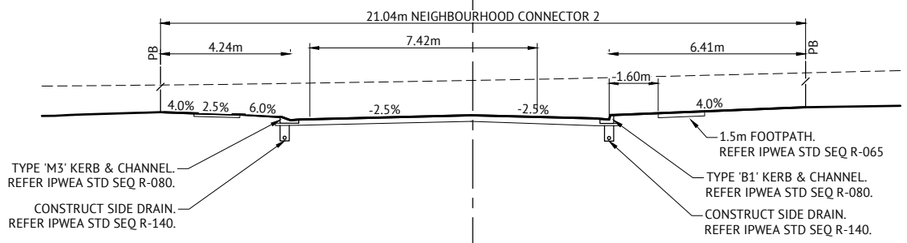

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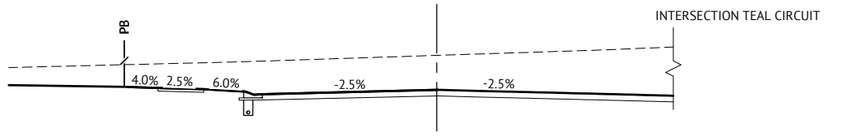

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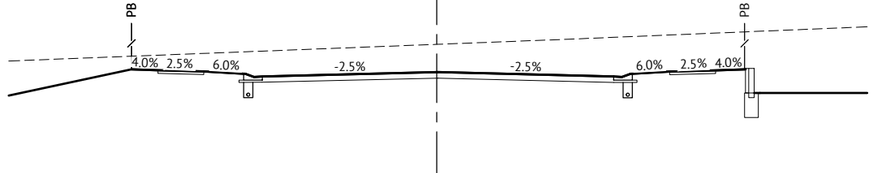

CHAINAGE 220 — DATUM R.L. 49.00

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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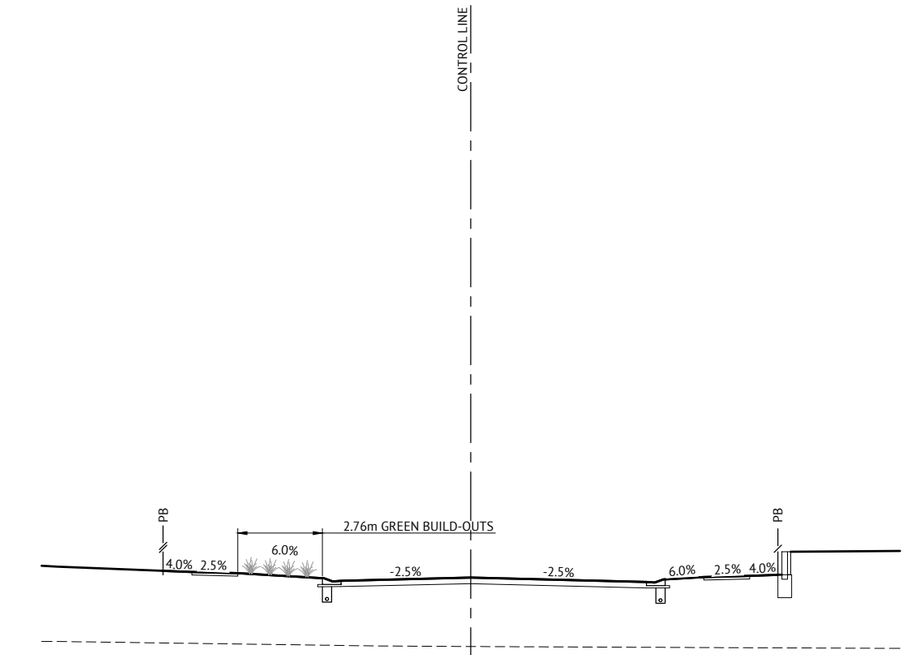
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ — KEITH HOWELLS — RPEQ 7295 — DATE 02/07/18

SCALE 0 2 4 6m — SCALE 1:100 (A1)

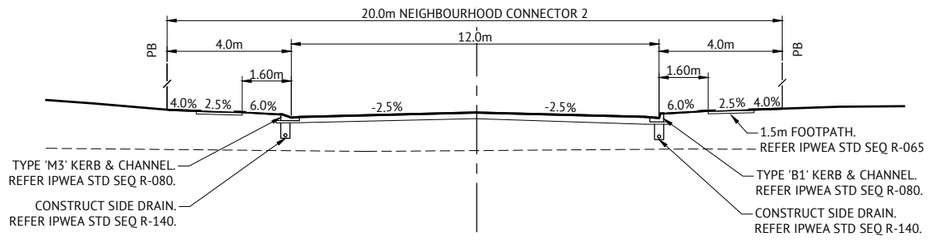
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD CROSS SECTIONS - SHEET 1 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C302	A



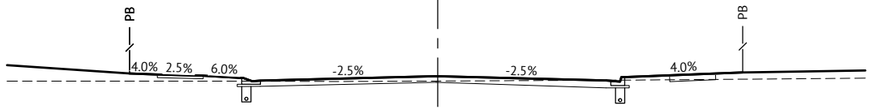
CHAINAGE 340

DATUM R.L. 43.00



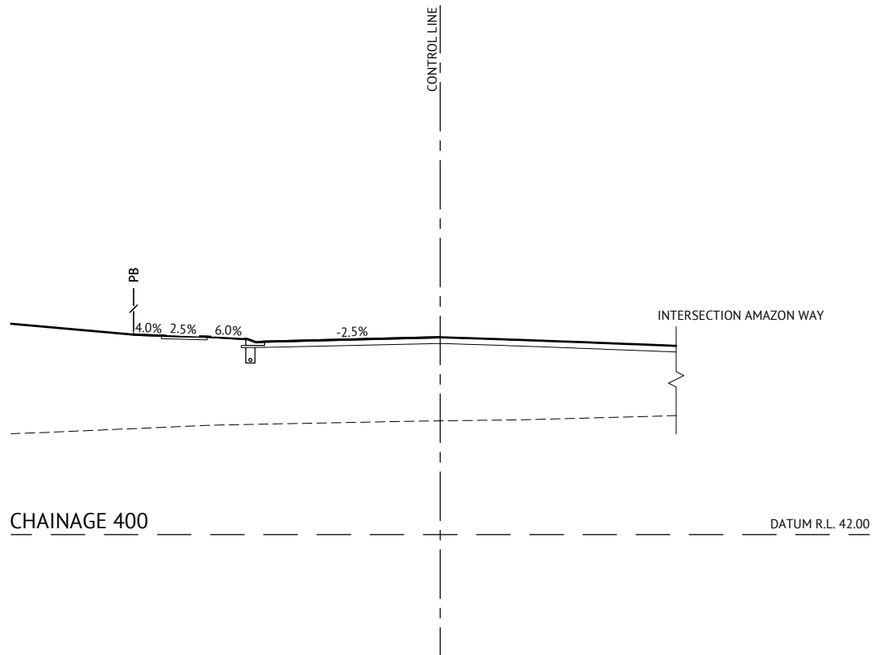
CHAINAGE 320

DATUM R.L. 45.00



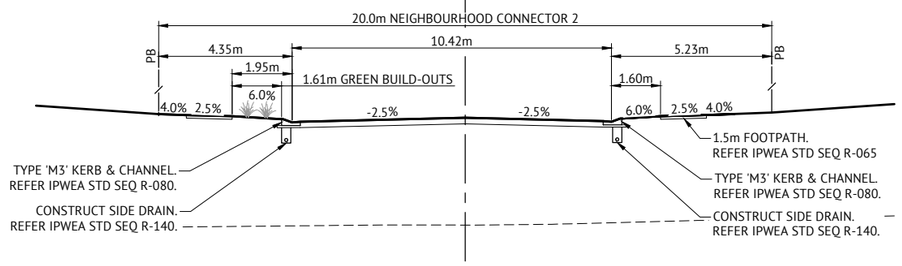
CHAINAGE 300

DATUM R.L. 46.00



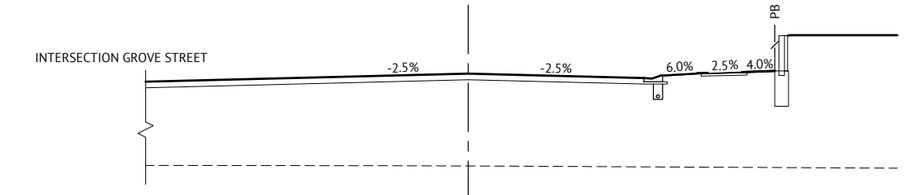
CHAINAGE 400

DATUM R.L. 42.00



CHAINAGE 380

DATUM R.L. 42.00



CHAINAGE 360

DATUM R.L. 42.00

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	
02/07/18	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	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

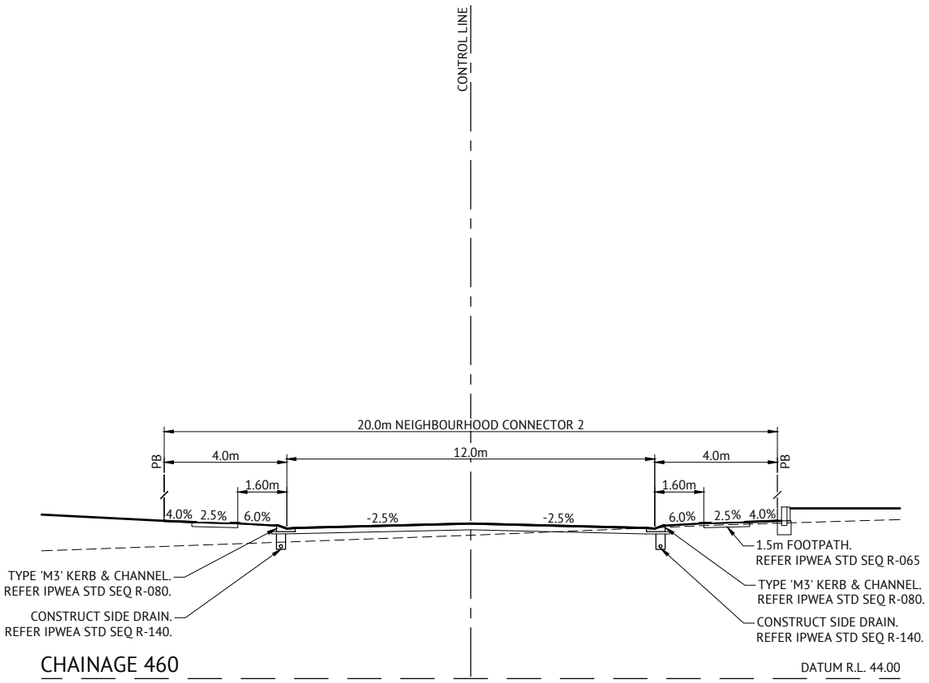
RPEQ KEITH HOWELLS RPEQ 7295 DATE 02/07/18

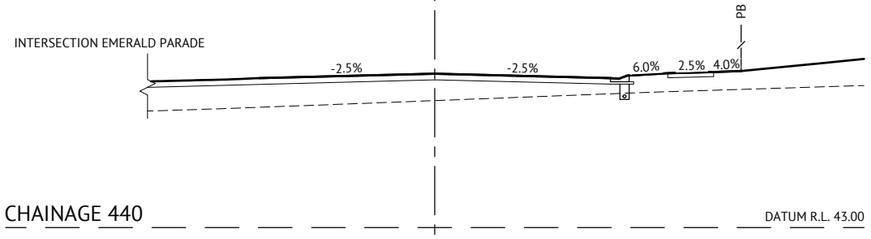
SCALE 0 2 4 6m

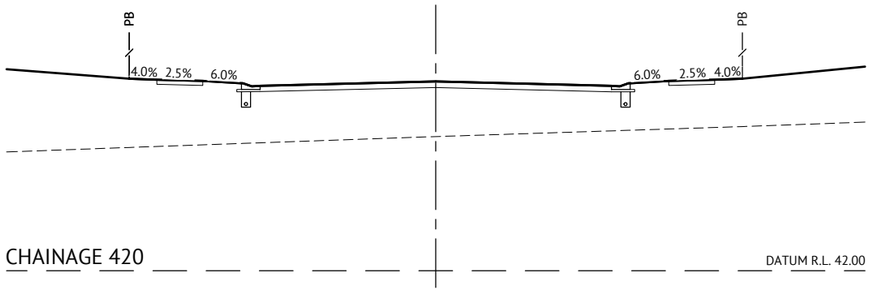
SCALE 1:100 (A1)

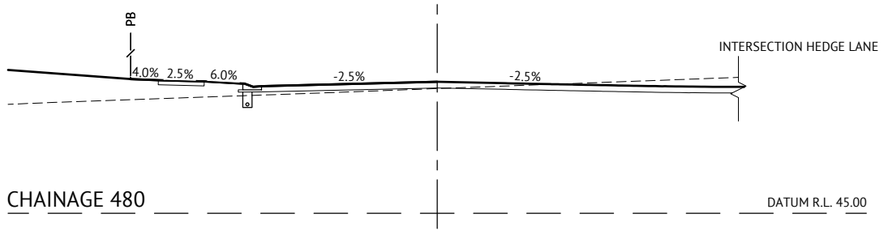
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD CROSS SECTIONS - SHEET 2 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C303	A









11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 02/07/18

SCALE 0 2 4 6m

SCALE 1:100 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	KESSELS BOULEVARD CROSS SECTIONS - SHEET 3 OF 3

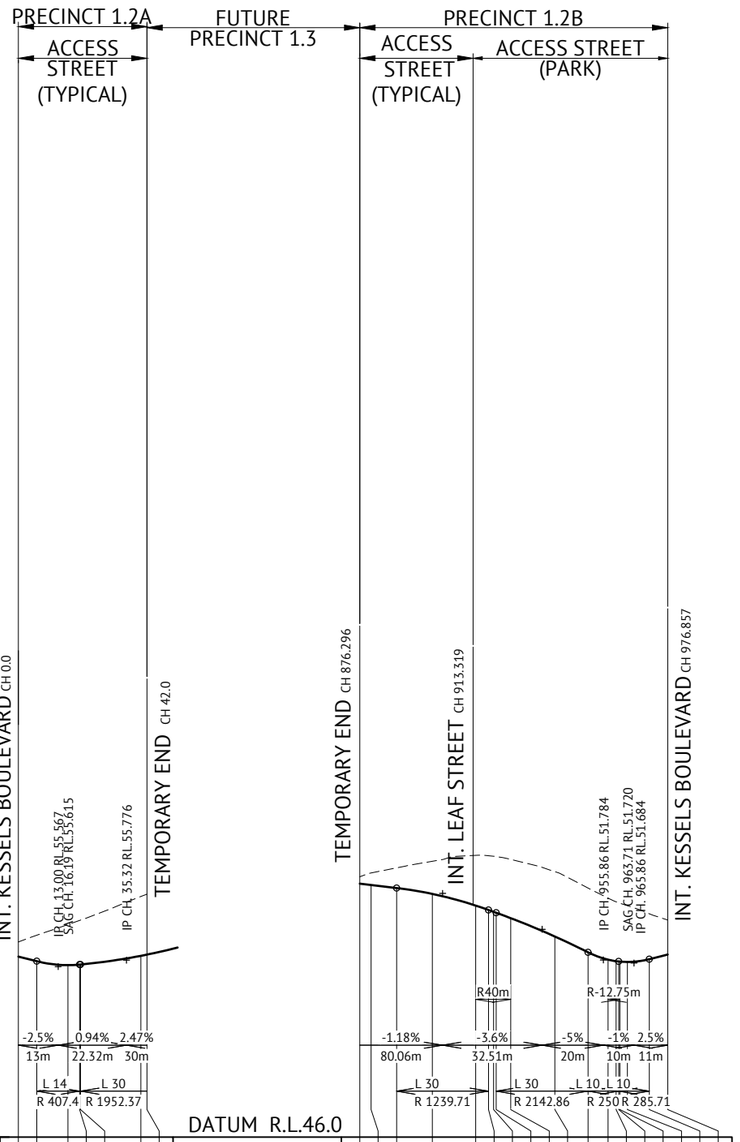
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C304	A

PAVEMENT DESIGN		
ROADS	-	TEAL CIRCUIT CH. 0.0 - CH. 42.0 CH.876.296 - CH. 913.319
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

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

PAVEMENT DESIGN		
ROADS	-	TEAL CIRCUIT CH. 913.319 - CH. 976.857
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

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



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

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

DATUM R.L.50.0

CHAINAGE	0.00	6.00	16.19	20.00	20.32	40.00	42.00
NATURAL SURFACE	56.373	56.591	56.939	57.072	57.083	57.854	57.929
DESIGN SURFACE	55.892	55.742	55.615	55.633	55.636	55.919	55.959
RHS LIP LEVEL	✳		55.528	55.546	55.549	55.832	55.876
LHS LIP LEVEL	✳		55.528	55.546	55.549	55.832	55.876
CUT (-)/FILL DEPTH	-0.481	-0.849	-1.324	-1.440	-1.448	-1.935	-1.970

DATUM R.L.46.0

CHAINAGE	876.30	880.00	888.34	900.00	914.17	918.34	920.00	920.86	925.58	940.00	950.86	957.36	960.00	960.86	961.22	963.71	970.86	976.86
NATURAL SURFACE	54.499	54.623	54.790	55.004	55.197	55.189	55.170	55.160	55.069	54.667	54.132	53.801	53.680	53.650	53.637	53.555	53.291	53.089
DESIGN SURFACE	54.274	54.230	54.132	53.939	53.558	53.415	53.355	53.324	53.149	52.549	52.034	51.793	51.744	51.734	51.731	51.720	51.809	51.959
RHS LIP LEVEL	54.187	54.143	54.045	53.852	53.485	53.345	53.287	53.257	53.087	52.492	51.977	✳						
LHS LIP LEVEL	54.187	54.143	54.045	53.852	53.474	53.340	53.284	53.255	53.087	52.487	51.972	✳						
CUT (-)/FILL DEPTH	-0.226	-0.393	-0.658	-1.065	-1.639	-1.774	-1.816	-1.836	-1.920	-2.117	-2.098	-2.008	-1.936	-1.916	-1.907	-1.835	-1.482	-1.130

TEAL CIRCUIT LONGITUDINAL SECTION

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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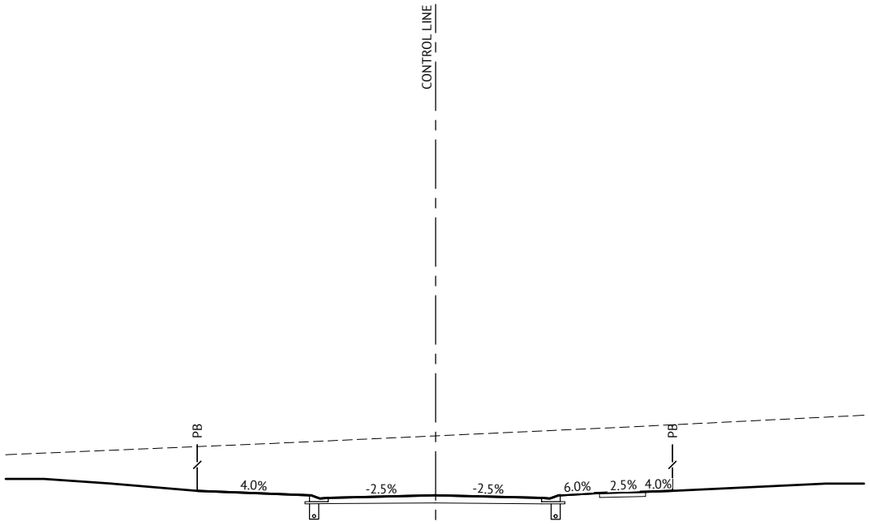
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

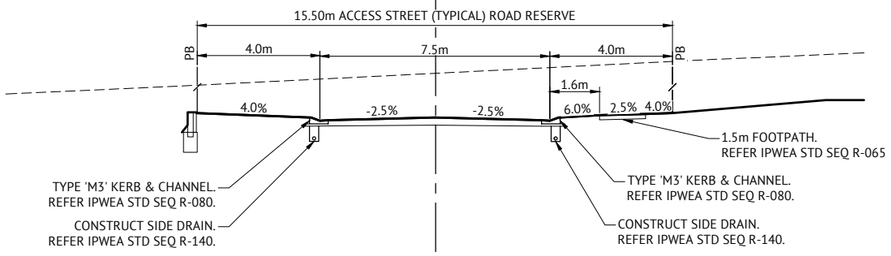
DESIGNED	MICHAEL MAIZNER	RPEQ	DATE
CHECKED	MICHAEL MAIZNER	K. Howells KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	HORIZONTAL 1:1000 (A1) 0 20 40 60m; VERTICAL 1:100 (A1) 0 2 4 6m
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEAL CIRCUIT LONGITUDINAL SECTIONS

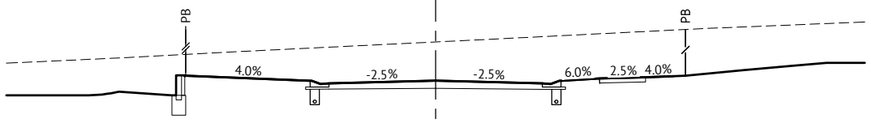
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C305	A



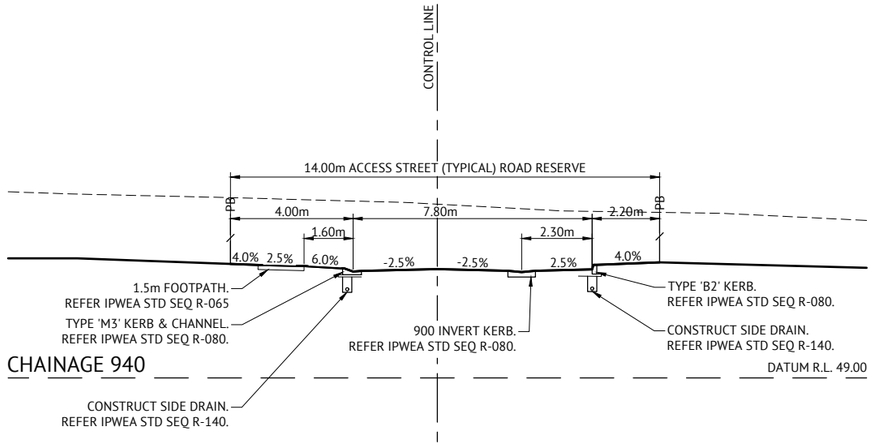
CHAINAGE 40 — DATUM R.L. 52.00



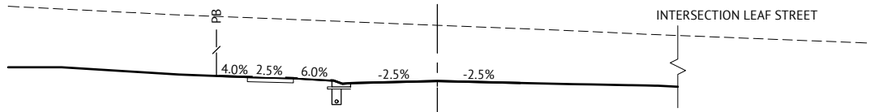
CHAINAGE 20 — DATUM R.L. 52.00



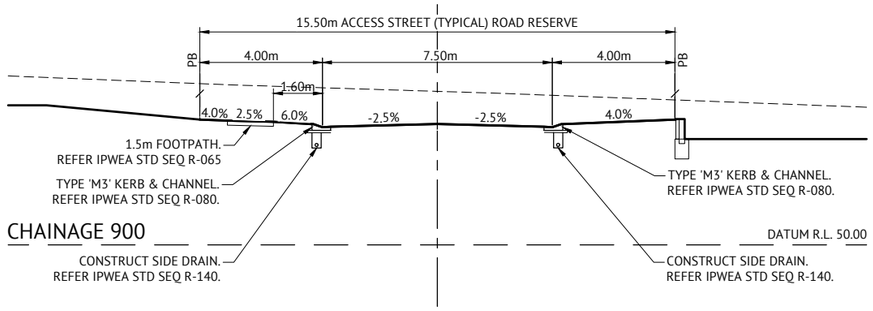
CHAINAGE 14.5 — DATUM R.L. 52.00



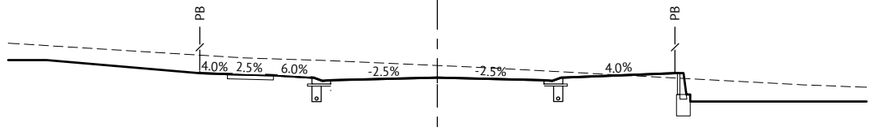
CHAINAGE 940 — DATUM R.L. 49.00



CHAINAGE 920 — DATUM R.L. 49.00



CHAINAGE 900 — DATUM R.L. 50.00



CHAINAGE 880 — DATUM R.L. 50.00

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH
		REVISIONS	RPEQ

Premise

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PO BOX 361
FORTITUDE VALLEY, QLD 4006
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WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ — KEITH HOWELLS RPEQ 7295 — DATE 02/07/18

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

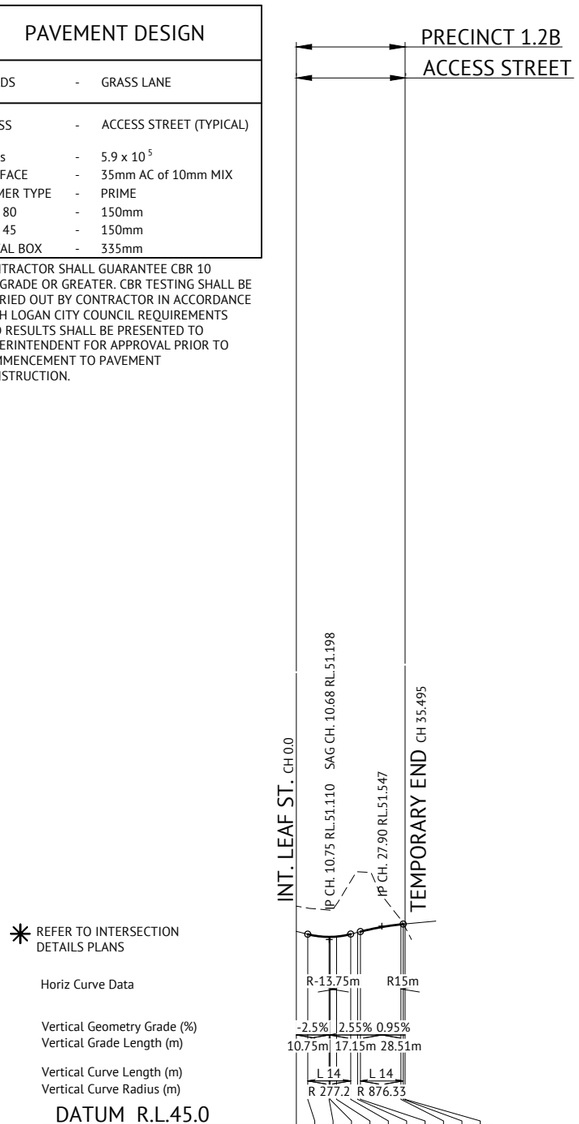
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEAL CIRCUIT CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C306	A

PAVEMENT DESIGN

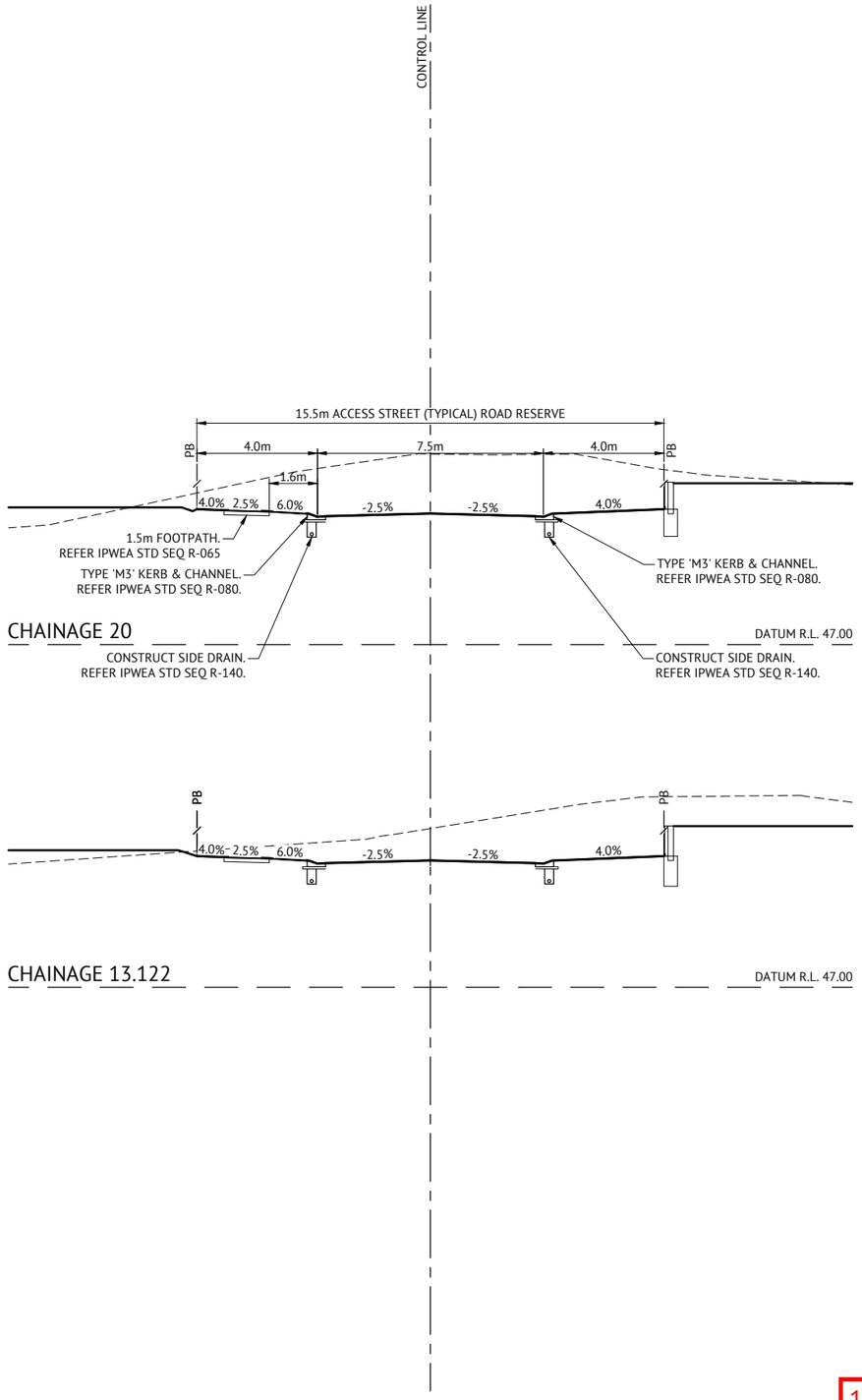
ROADS	-	GRASS LANE
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE	-	PRIME
CBR 80	-	150mm
CBR 45	-	150mm
TOTAL BOX	-	335mm

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



CHAINAGE	0.00	3.75	10.68	11.01	13.12	17.75	20.00	20.90	34.12	34.90	35.50
NATURAL SURFACE	52.200	52.138	52.073	52.071	52.267	53.017	53.322	53.317	51.758	51.627	51.513
DESIGN SURFACE	51.379	51.285	51.198	51.199	51.209	51.289	51.346	51.369	51.606	51.614	51.620
RHS LIP LEVEL			✳		51.122	51.202	51.259	51.282	51.519	51.527	51.533
LHS LIP LEVEL			✳		51.122	51.202	51.259	51.282	51.519	51.527	51.533
CUT (-)/FILL DEPTH	-0.821	-0.853	-0.875	-0.872	-1.058	-1.728	-1.976	-1.948	-0.152	-0.013	0.107

GRASS LANE LONGITUDINAL SECTION



GRASS LANE CROSS SECTION

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	GRASS LANE LONGITUDINAL AND CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C307	A

PAVEMENT DESIGN

ROADS	-	LEAF STREET CH. 0.000 - CH. 120.000
CLASS	-	ACCESS STREET (PARK)
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

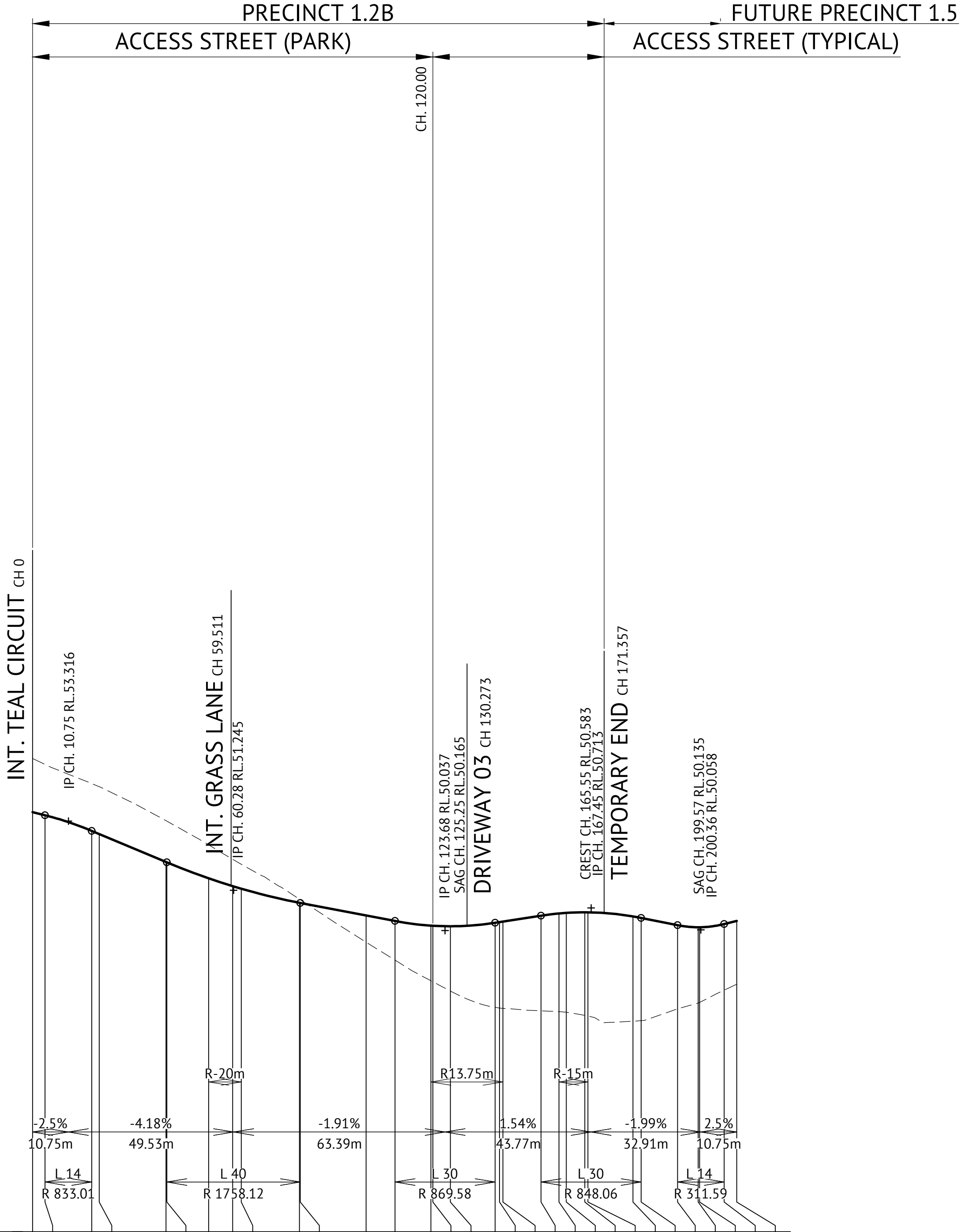
CONTRACTOR SHALL GUARANTEE CBR 10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT TO PAVEMENT CONSTRUCTION.

PAVEMENT DESIGN

ROADS	-	LEAF STREET CH. 120.000 - CH. 171.357
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

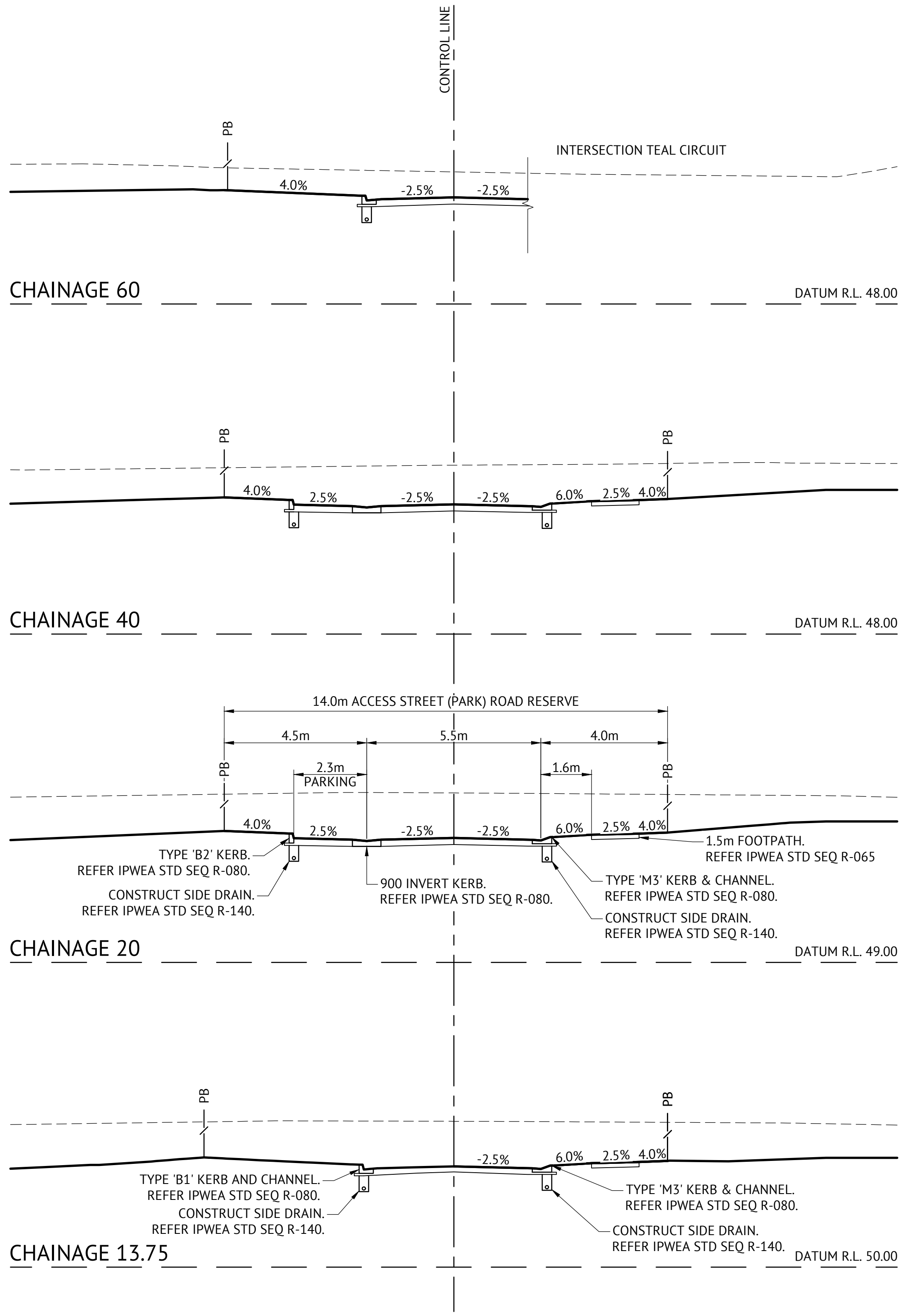
CONTRACTOR SHALL GUARANTEE CBR 10 SUBGRADE OR GREATER. CBR TESTING SHALL BE CARRIED OUT BY CONTRACTOR IN ACCORDANCE WITH LOGAN CITY COUNCIL REQUIREMENTS AND RESULTS SHALL BE PRESENTED TO SUPERINTENDENT FOR APPROVAL PRIOR TO COMMENCEMENT TO PAVEMENT CONSTRUCTION.

✳ REFER TO INTERSECTION DETAILS PLANS



CUT (-)/FILL DEPTH	-1.608	-1.523	-1.419	-1.420	-1.236	-1.232	-1.004	-0.803	-0.732	-0.109	-0.095	0.801	1.172	1.652	1.679	1.940	2.536	2.574	2.600	2.852	2.942	2.976	3.086	3.106	3.141	3.077	2.507	2.271	2.251	1.982	1.898
LHS LIP LEVEL	✳		52.966	52.872	52.036	52.024	51.546	51.310	51.233	50.812	50.807	50.431	50.266	50.127	50.123	50.098	50.182	50.203	50.218	50.395	50.461	50.478	50.496	50.495	50.373	50.327	50.110				
RHS LIP LEVEL	✳		52.961	52.867	52.031	52.019		✳		50.808	50.802	50.427	50.261	50.122	50.117	50.092	50.182	50.202	50.218	50.395	50.461	50.478	50.496	50.495	50.373	50.327	50.110				
DESIGN SURFACE	53.585	53.491	53.023	52.929	52.093	52.081	51.603	51.368	51.291	50.870	50.864	50.489	50.323	50.185	50.181	50.165	50.269	50.289	50.305	50.482	50.548	50.565	50.583	50.582	50.460	50.414	50.197	50.135	50.135	50.233	50.326
NATURAL SURFACE	55.193	55.014	54.442	54.349	53.330	53.314	52.607	52.171	52.023	50.978	50.960	49.688	49.151	48.533	48.502	48.226	47.733	47.715	47.706	47.630	47.606	47.589	47.497	47.476	47.319	47.338	47.690	47.864	47.885	48.250	48.429
CHAINAGE	0.00	3.75	17.75	20.00	40.00	40.28	52.79	60.00	62.58	80.00	80.28	100.00	108.68	119.43	120.00	125.25	138.68	140.00	141.03	152.45	157.80	160.00	165.55	166.50	180.00	182.45	193.36	199.57	200.00	207.36	211.11

LEAF STREET LONGITUDINAL SECTION



LEAF STREET CROSS SECTION

11/01/19

FOR CONSTRUCTION

02/07/18	A	ORIGINAL ISSUE	KH	
DATE	REV	DESCRIPTION	RPEQ	

REVISIONS

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Premise

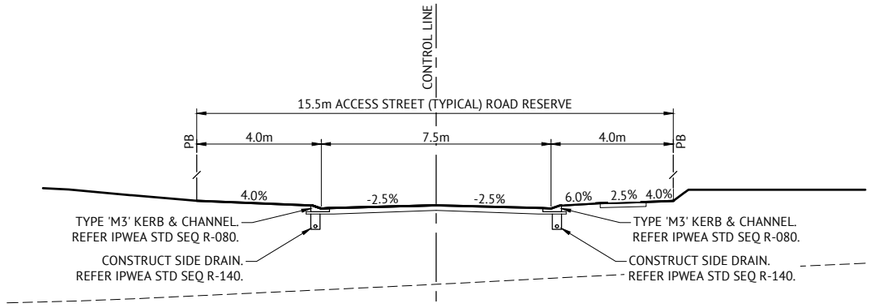
DESIGNED	MICHAEL MAJZNER
CHECKED	MICHAEL MAJZNER
PROJECT MANAGER	JOSHUA STONE
PROJECT DIRECTOR	JOSHUA STONE — DATE 02/07/18

RPEQ: KEITH HOWELLS, RPEQ 7295 — DATE 02/07/18

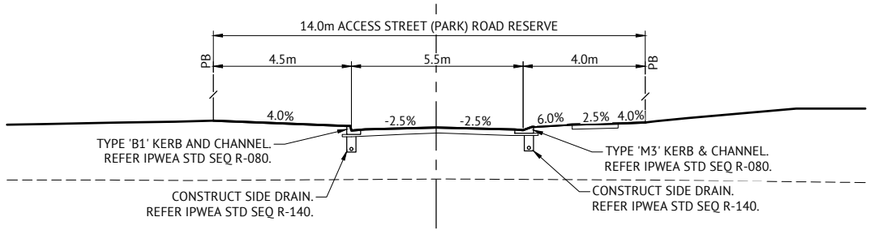
SCALE: HORIZONTAL 1:1000 (A1) 0 20 40 60m; VERTICAL 1:100 (A1) 0 2 4 6m

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	LEAF STREET LONGITUDINAL AND CROSS SECTIONS

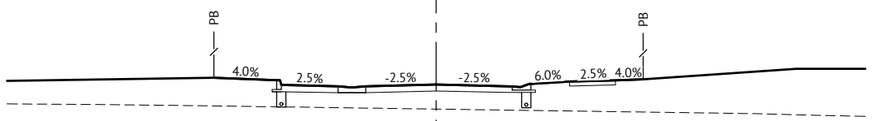
JOB CODE	MIR001-02A
SHEET NUMBER	C308
REV	A



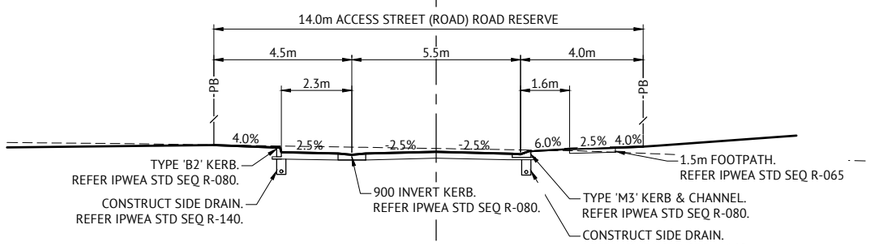
CHAINAGE 140 — DATUM R.L. 44.00



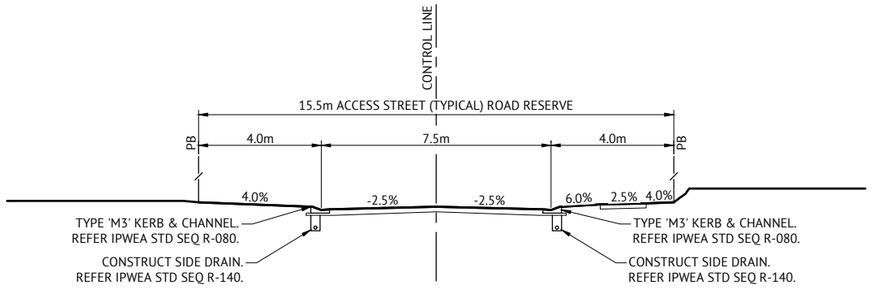
CHAINAGE 120 — DATUM R.L. 45.00



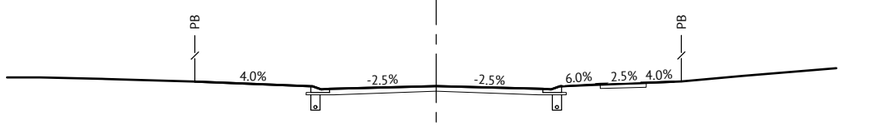
CHAINAGE 100 — DATUM R.L. 46.00



CHAINAGE 80 — DATUM R.L. 47.00



CHAINAGE 180 — DATUM R.L. 44.00



CHAINAGE 160 — DATUM R.L. 44.00

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ — KEITH HOWELLS — RPEQ 7295 — DATE 02/07/18

SCALE 0 2 4 6m — SCALE 1:100 (A1)

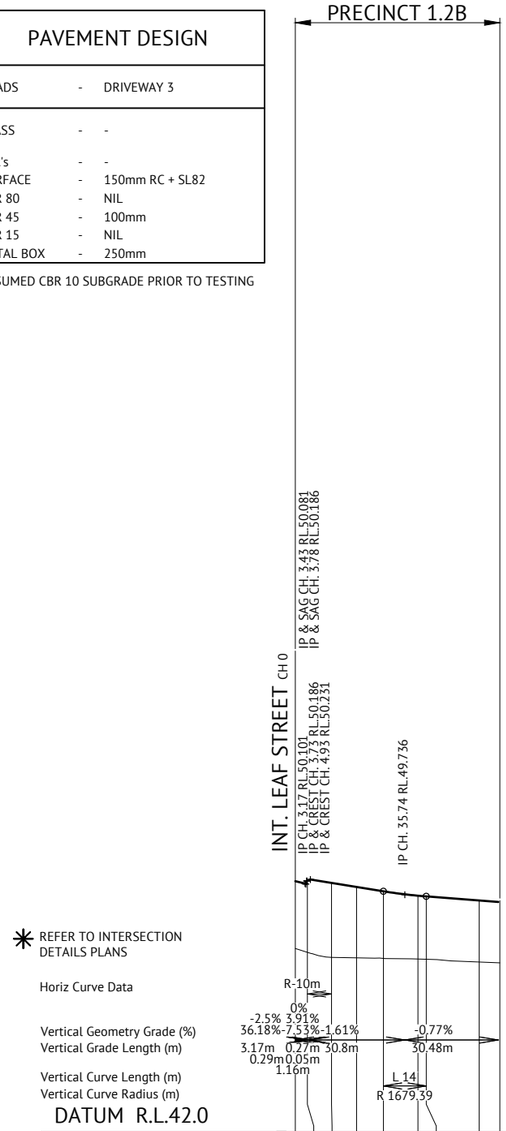
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	LEAF STREET CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C309	A

PAVEMENT DESIGN

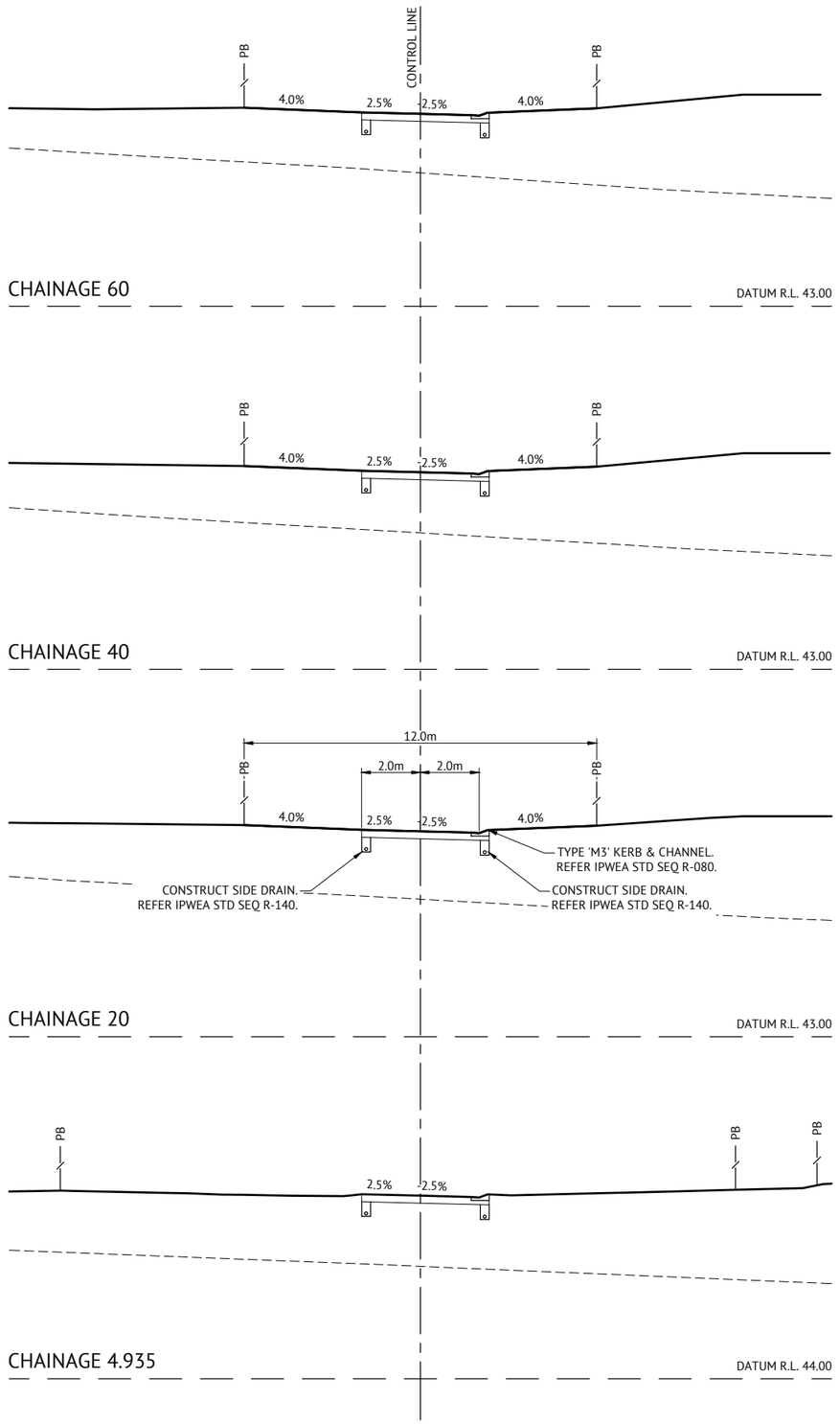
ROADS	-	DRIVEWAY 3
CLASS	-	-
ESA's	-	-
SURFACE	-	150mm RC + SL82
CBR 80	-	NIL
CBR 45	-	100mm
CBR 15	-	NIL
TOTAL BOX	-	250mm

ASSUMED CBR 10 SUBGRADE PRIOR TO TESTING



CUT (-)/FILL DEPTH	2.195	2.336	2.427	2.311	2.188	2.064	2.050	2.006		
LHS LIP LEVEL	*		50.170	50.039	49.898	49.755	49.732			
RHS LIP LEVEL	*		50.077	49.946	49.805	49.662	49.638			
DESIGN SURFACE	50.180	50.192	50.120	49.989	49.848	49.705	49.682	49.548		
NATURAL SURFACE	47.985	47.856	47.693	47.677	47.660	47.641	47.632	47.542	47.515	
CHAINAGE	0.00	3.94	11.83	20.00	28.74	40.00	42.74	60.00	66.74	

DRIVEWAY 03 LONGITUDINAL SECTION



DRIVEWAY 03 CROSS SECTION

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	02/07/18

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

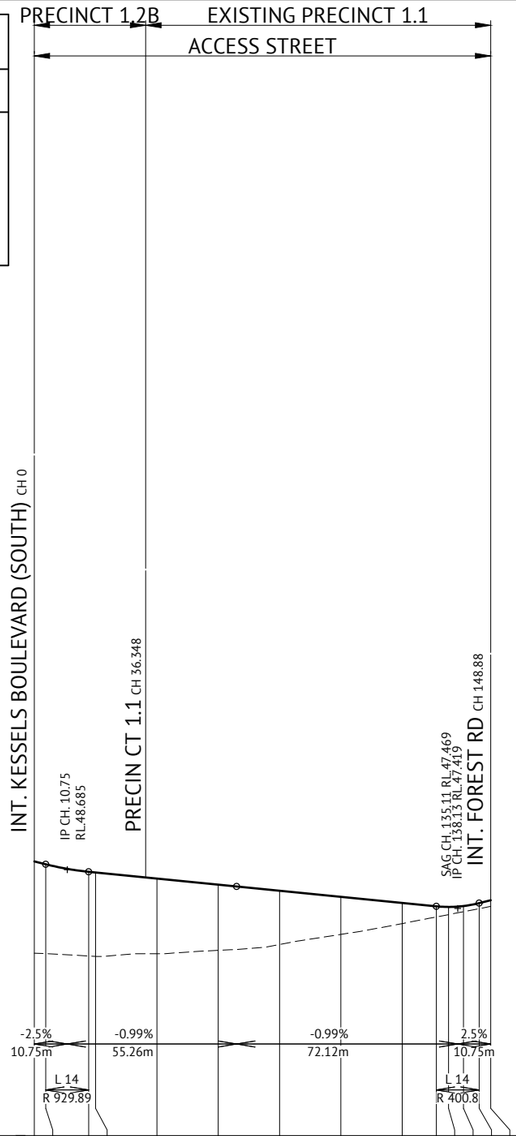
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	DRIVEWAY 3 LONGITUDINAL AND CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C310	A

PAVEMENT DESIGN

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

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



✳ REFER TO INTERSECTION DETAILS PLANS

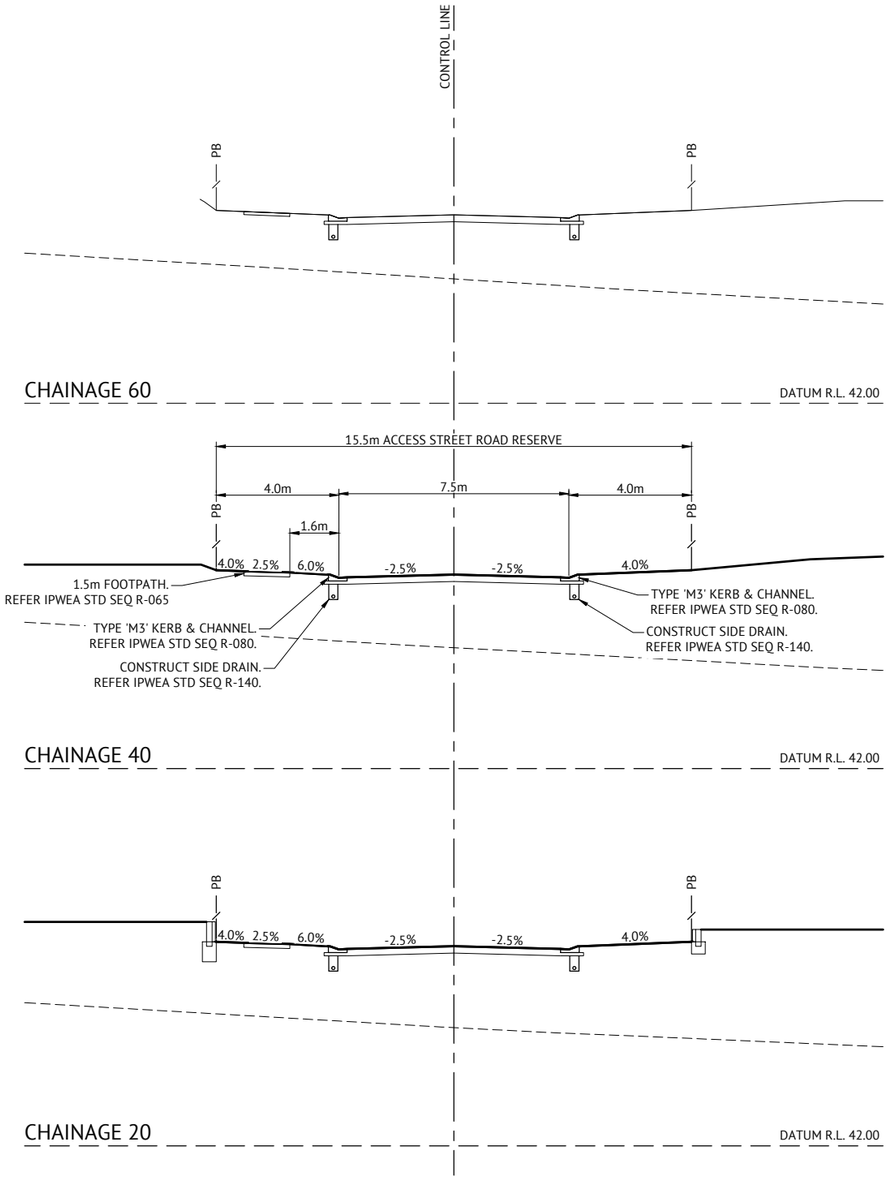
Horiz Curve Data

Vertical Geometry Grade (%)	-2.5%	-0.99%	-0.99%	2.5%
Vertical Grade Length (m)	10.75m	55.26m	72.12m	10.75m
Vertical Curve Length (m)		L 14		L 14
Vertical Curve Radius (m)		R 929.89		R 400.8

DATUM R.L.40.0

CUT (-)/FILL DEPTH	2.995	2.914	2.747	2.738	2.451	2.142	1.753	1.224	0.673	0.347	0.250	0.186	0.182	0.205
LHS LIP LEVEL	✳		48.528	48.506	48.307	48.108	47.909	47.711	47.512	47.401	✳			
RHS LIP LEVEL	✳		48.506	48.307	48.108	47.909	47.711	47.512	47.401	✳				
DESIGN SURFACE	48.953	48.860	48.615	48.593	48.394	48.195	47.996	47.798	47.599	47.488	47.469	47.499	47.594	47.688
NATURAL SURFACE	45.958	45.946	45.869	45.855	45.943	46.053	46.243	46.573	46.926	47.142	47.218	47.313	47.412	47.483
CHAINAGE	0.00	3.75	17.75	20.00	40.00	60.00	80.00	100.00	120.00	131.13	135.11	140.00	145.13	148.88

GROVE STREET LONGITUDINAL SECTION



GROVE STREET CROSS SECTION

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	02/07/18

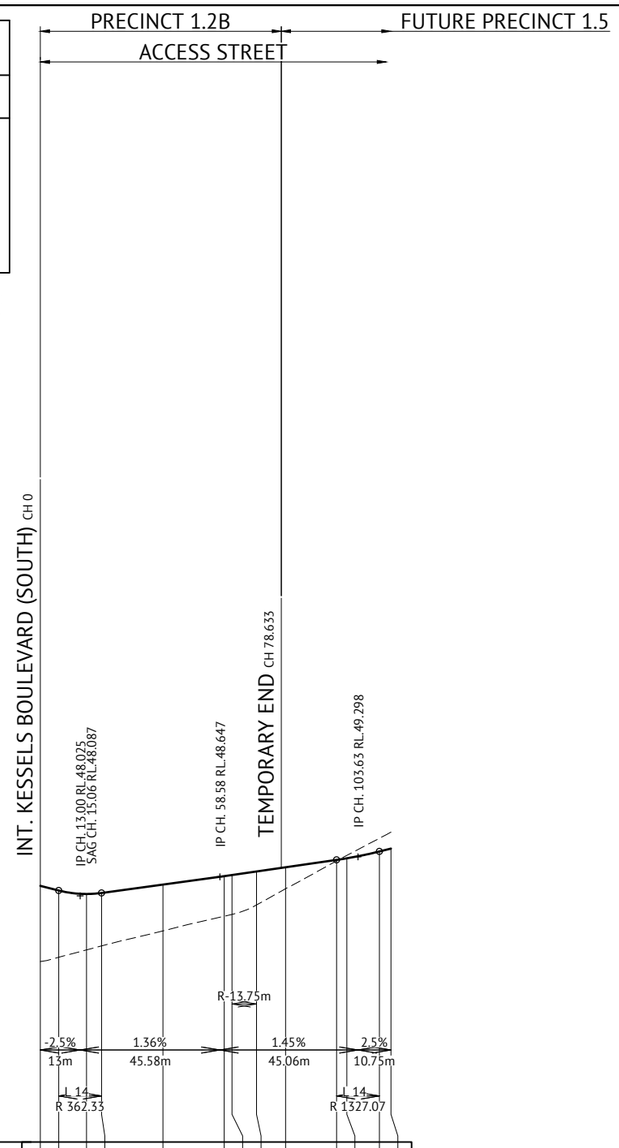
SCALE
HORIZONTAL 1:1000 (A1)
0 20 40 60m
VERTICAL 1:100 (A1)
0 2 4 6m

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	GROVE STREET LONGITUDINAL AND CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C311	A

PAVEMENT DESIGN		
ROADS	-	AMAZON WAY
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

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



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%) -2.5% 1.36% 1.45% 2.5%

Vertical Grade Length (m) 13m 45.58m 45.06m 10.75m

Vertical Curve Length (m) L 14 L 14

Vertical Curve Radius (m) R 362.33 R 1327.07

DATUM R.L.40.0

CHAINAGE	0.00	6.00	15.06	20.00	40.00	60.00	62.54	70.51	80.00	96.63	100.00	110.63	114.38
NATURAL SURFACE	45.883	46.025	46.263	46.593	46.883	47.362	47.420	47.727	48.257	49.165	49.344	49.902	50.102
DESIGN SURFACE	48.350	48.200	48.087	48.121	48.393	48.667	48.704	48.819	48.956	49.197	49.250	49.473	49.567
RHS LIP LEVEL	✳			48.034	48.306	48.580	48.617	48.732	48.869	49.110	49.163		
LHS LIP LEVEL	✳		48.000	48.034	48.306	48.580	48.617	48.732	48.869	49.110	49.163		
CUT (-)/FILL DEPTH	2.467	2.175	1.824	1.728	1.510	1.306	1.284	1.092	0.699	0.032	-0.094	-0.430	-0.536

AMAZON WAY ROAD LONGITUDINAL SECTION

11/01/19

FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

Premise

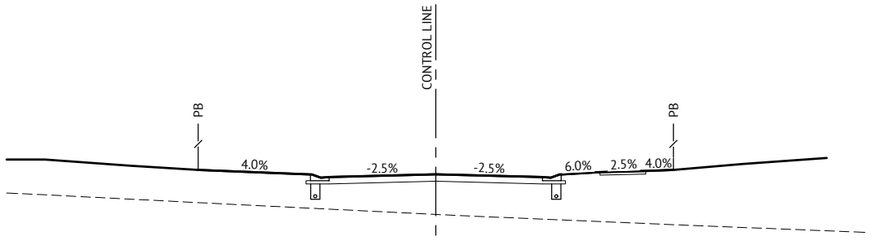
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	K. Howells KEITH HOWELLS RPEQ 7295	02/07/18
PROJECT MANAGER	JOSHUA STONE	SCALE	HORIZONTAL 1:1000 (A1) 0 20 40 60m; VERTICAL 1:100 (A1) 0 2 4 6m
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

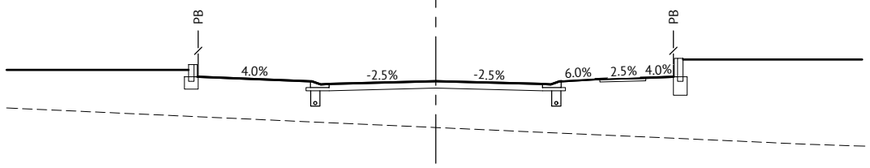
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	AMAZON WAY LONGITUDINAL SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C312	A

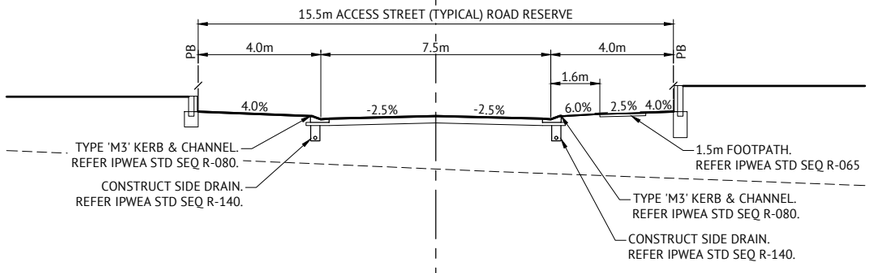
NOTE:
CHAINAGE 78.663 TO 100.633 ARE NOT APART OF PRECINCT 1.2.



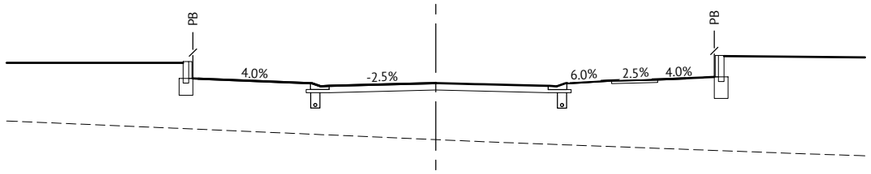
CHAINAGE 60 — DATUM R.L. 43.00



CHAINAGE 40 — DATUM R.L. 43.00

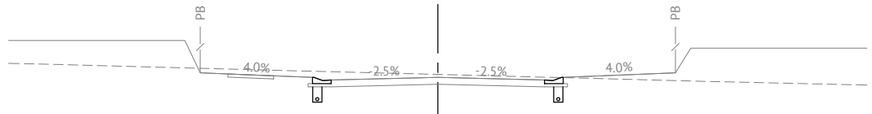


CHAINAGE 20 — DATUM R.L. 42.00

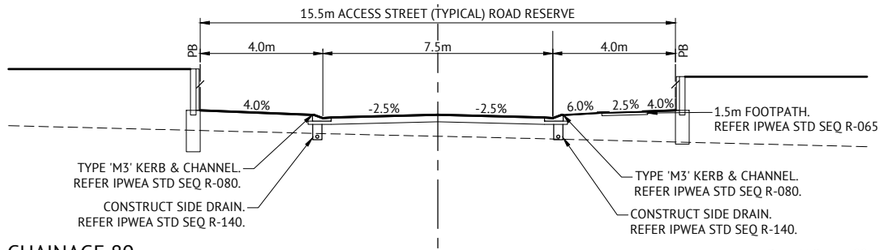


CHAINAGE 14.406 — DATUM R.L. 42.00

CHAINAGE 100.633 — DATUM R.L. 46.00



CHAINAGE 100 — DATUM R.L. 45.00



CHAINAGE 80 — DATUM R.L. 44.00

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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.au

DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS	DATE	02/07/18
		RPEQ	7295

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

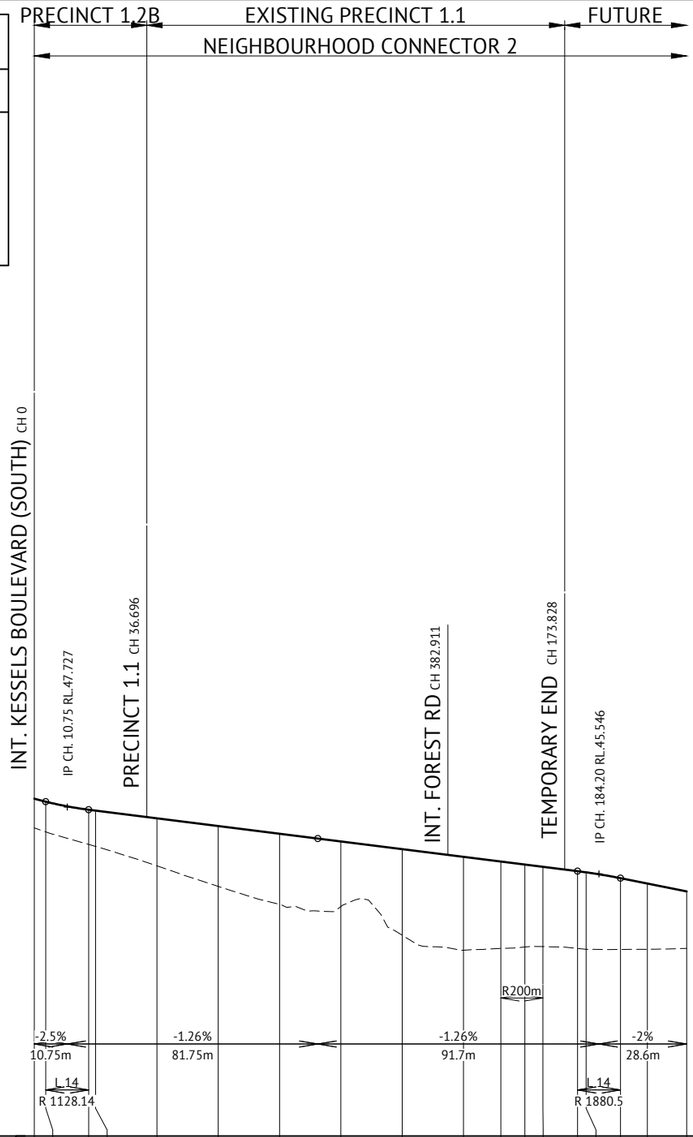
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	AMAZON WAY CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C313	A

PAVEMENT DESIGN

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

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



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

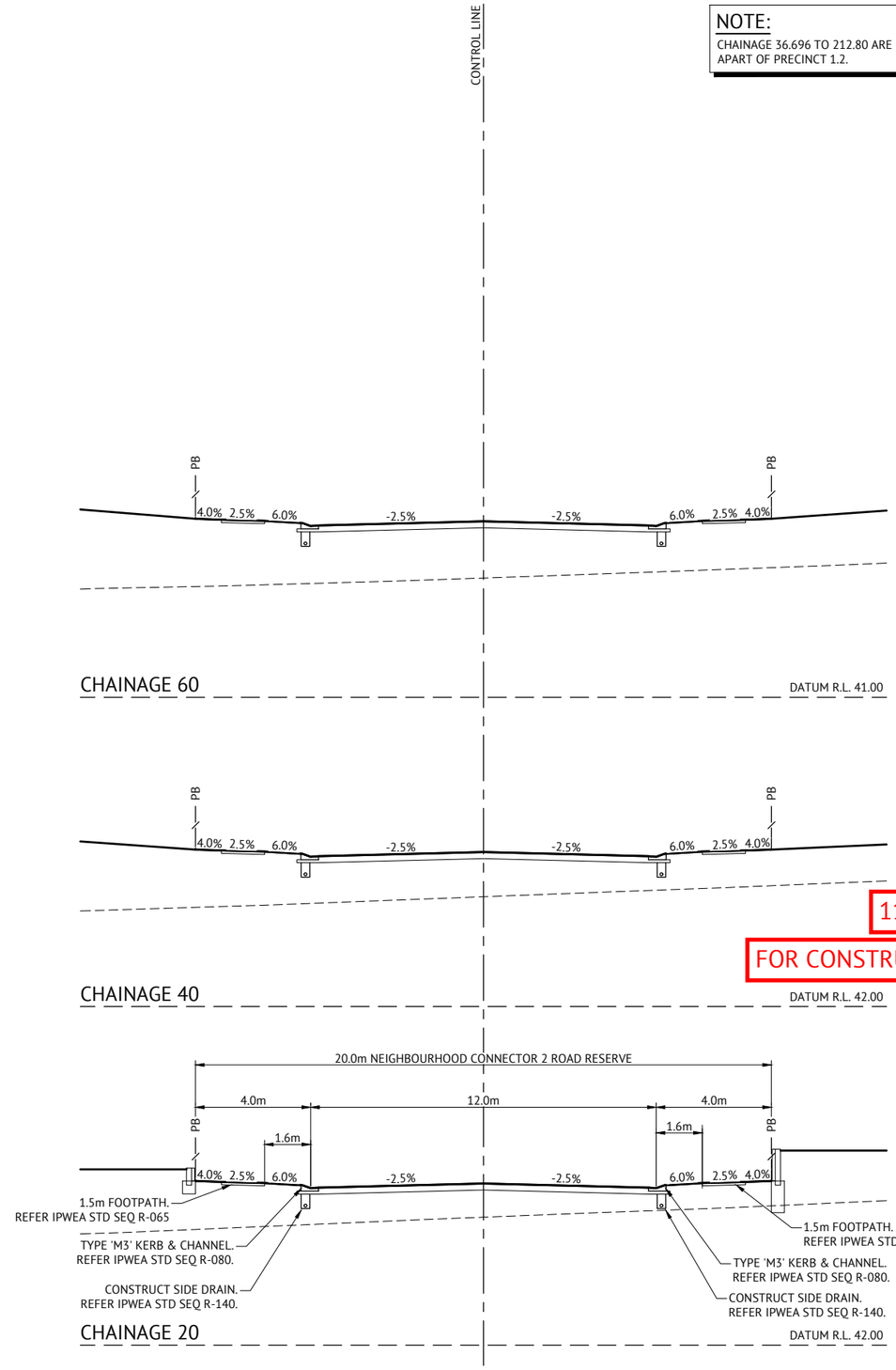
Vertical Geometry Grade (%): -2.5% | -1.26% | -1.26% | -2%
Vertical Grade Length (m): 10.75m | 81.75m | 91.7m | 28.6m
Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.37.0

CUT (-)/FILL DEPTH	0.948	0.987	1.133	1.170	1.549	1.968	2.303	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	✳		47.495	47.467	47.215	46.963	46.711	46.460	46.246	✳		45.707	45.632	45.491	45.453			
RHS LIP LEVEL	✳		47.495	47.467	47.215	46.963	46.711	46.460	46.209	45.995	45.805	45.707	45.632	45.491				
DESIGN SURFACE	47.995	47.902	47.638	47.610	47.358	47.106	46.855	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

NOTE:
CHAINAGE 36.696 TO 212.80 ARE NOT APART OF PRECINCT 1.2.



11/01/19

FOR CONSTRUCTION

EMERALD PARADE CROSS SECTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18	HORIZONTAL 1:1000 (A1)	
		0 20 40 60m	
		VERTICAL 1:100 (A1)	
		0 2 4 6m	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EMERALD PARADE LONGITUDINAL AND CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C314	A

PRECINCT 1.2B

ACCESS STREET

PAVEMENT DESIGN		
ROADS	-	HEDGE LANE
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

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

INT. KESSELS BOULEVARD (SOUTH) CH 0

TEMPORARY END CH 22.339

SAG CH. 10.67 RL.49.176
IP CH. 13.00 RL.49.059

✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

Vertical Geometry Grade (%) -2.5% 4.99%
Vertical Grade Length (m) 13m 28.1m

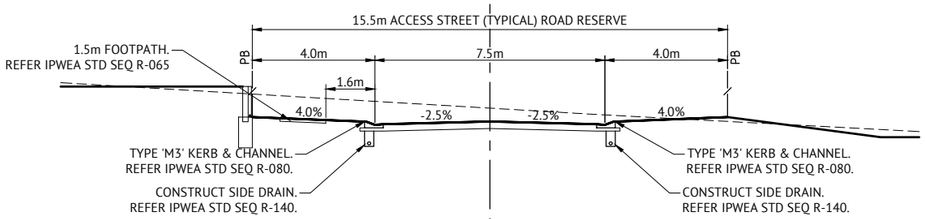
Vertical Curve Length (m) L 14
Vertical Curve Radius (m) R 186.85

DATUM R.L.43.0

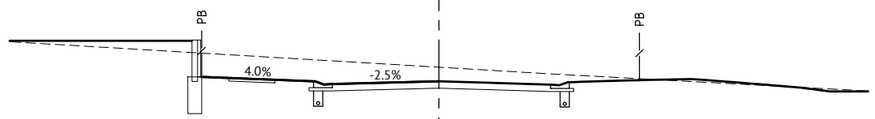
CHAINAGE	0.00	6.00	10.67	20.00	22.34
NATURAL SURFACE	49.185	49.386	49.541	49.846	49.921
DESIGN SURFACE	49.384	49.234	49.176	49.409	49.526
RHS LIP LEVEL	✳			49.322	49.439
LHS LIP LEVEL	✳			49.322	49.439
CUT (-)/FILL DEPTH	0.200	-0.152	-0.365	-0.437	-0.395

HEDGE LANE LONGITUDINAL SECTION

CONTROL LINE



CHAINAGE 20 — DATUM R.L. 45.00



CHAINAGE 15.135 — DATUM R.L. 45.00

HEDGE LANE CROSS SECTION

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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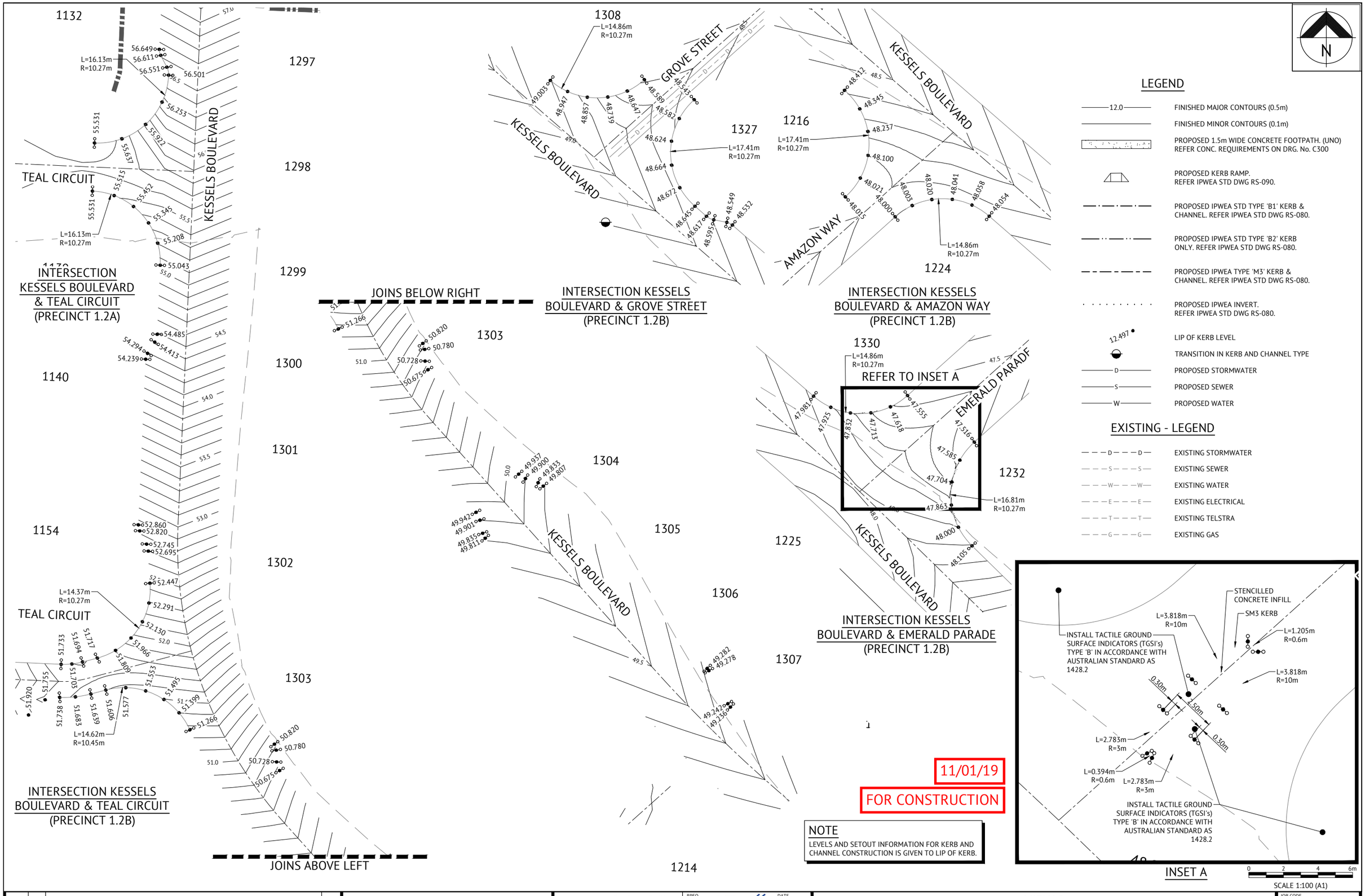
WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	K. Howells KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	HORIZONTAL 1:1000 (A1) 0 20 40 60m
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18 VERTICAL 1:100 (A1) 0 2 4 6m

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	HEDGE LANE LONGITUDINAL & CROSS SECTIONS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C315	A



DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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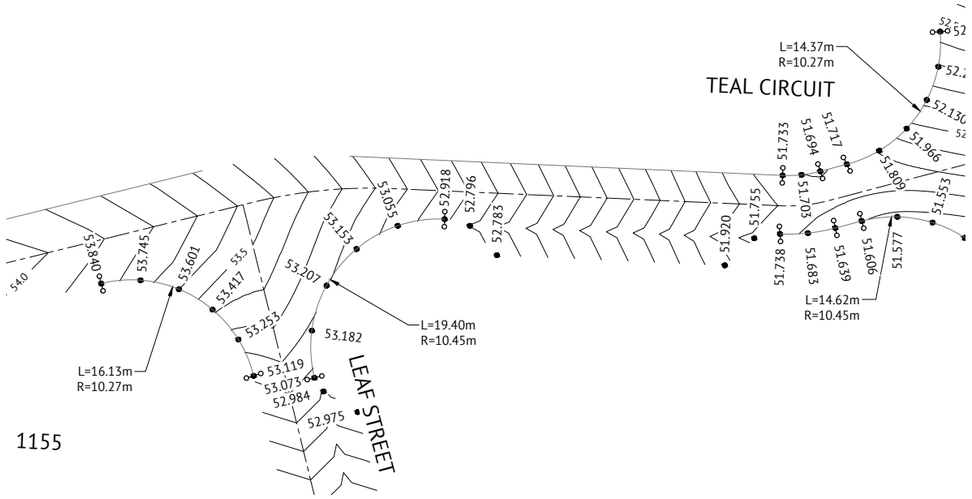
DESIGNED	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 02/07/18

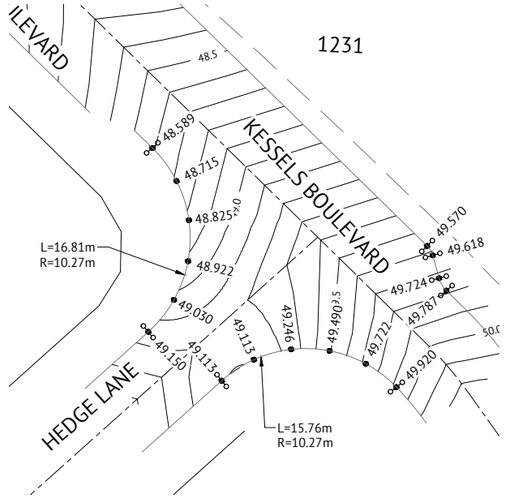
SCALE 0 5 10 15m
SCALE 1:250 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	INTERSECTION DETAILS PLAN - SHEET 1 OF 2

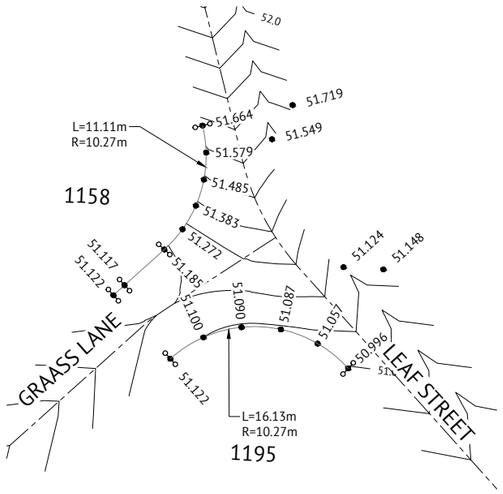
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C316	A



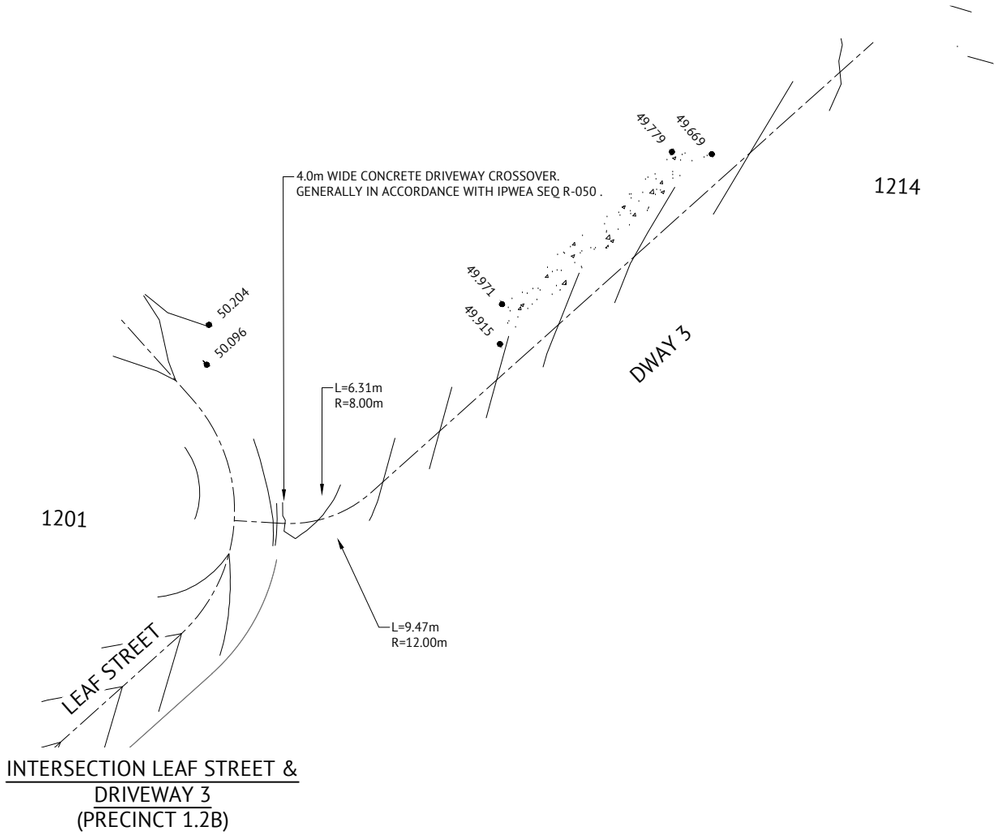
INTERSECTION TEAL CIRCUIT & LEAF STREET (PRECINCT 1.2B)



INTERSECTION KESSELS BOULEVARD & HEDGE LANE (PRECINCT 1.2B)



INTERSECTION LEAF STREET & GRASS LANE (PRECINCT 1.2B)



INTERSECTION LEAF STREET & DRIVEWAY 3 (PRECINCT 1.2B)

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 TYPE 'M3' KERB & CHANNEL. 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

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FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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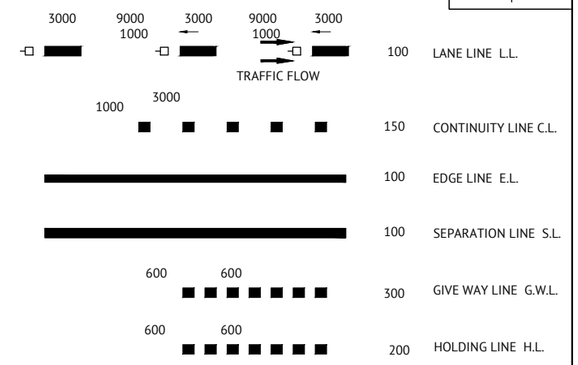
DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18	0 5 10 15m	
		SCALE 1:250 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	INTERSECTION DETAILS PLAN - SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C317	A

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.

11/01/19 FOR CONSTRUCTION

LEGEND

STAMPED AC THRESHOLD TREATMENT. REFER TO LANDSCAPE FOR COLOUR AND PATTERN.

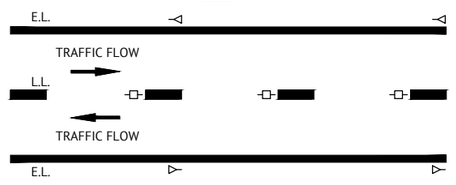
CONCRETE DRIVEWAY

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



DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

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Premise

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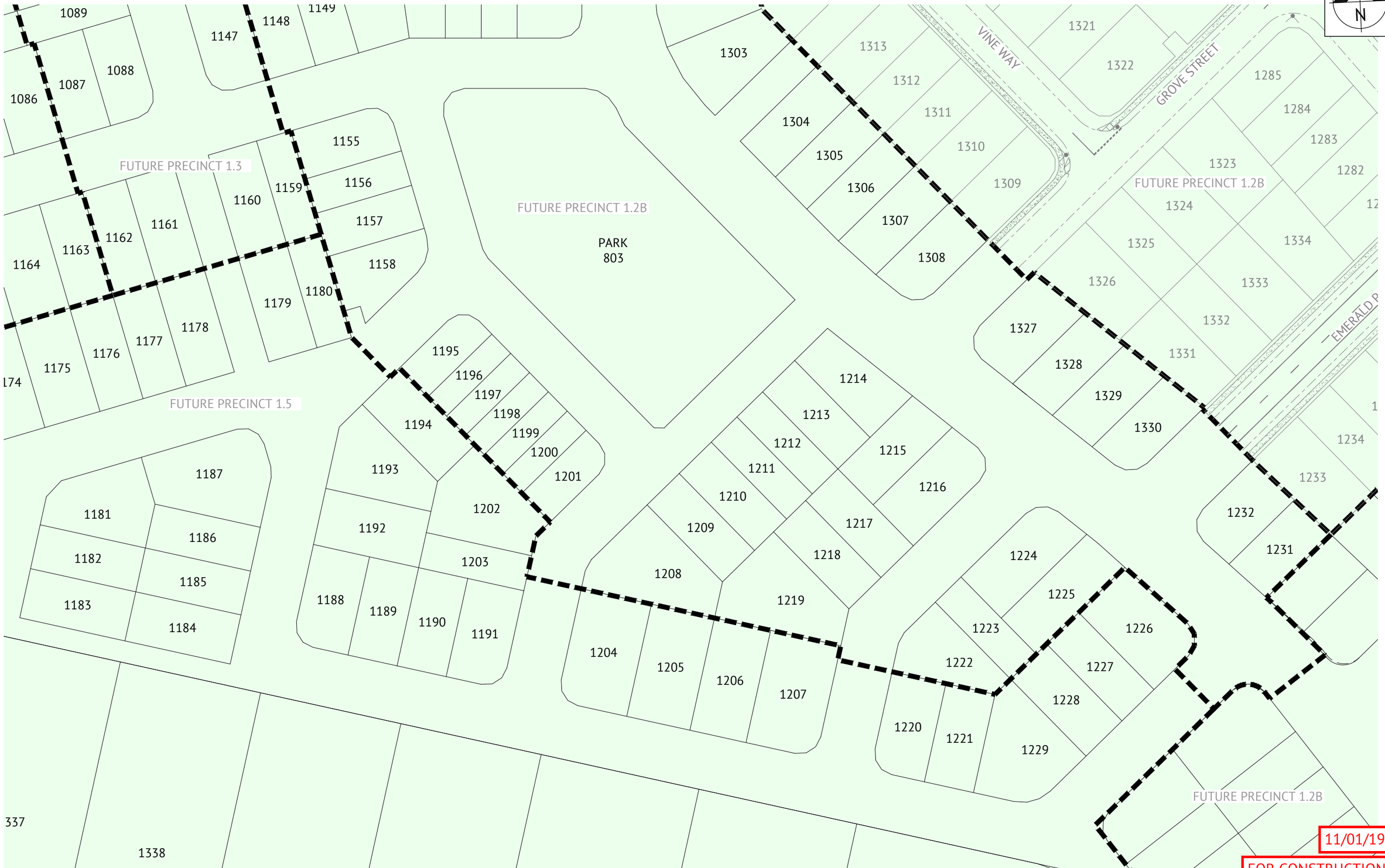
WEB: www.premise.com.au

		RPEQ	DATE
DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER	K. Howells KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE		DATE 02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C318	A



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FOR CONSTRUCTION

02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE		RPEQ 7295
PROJECT DIRECTOR	JOSHUA STONE		DATE 02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2

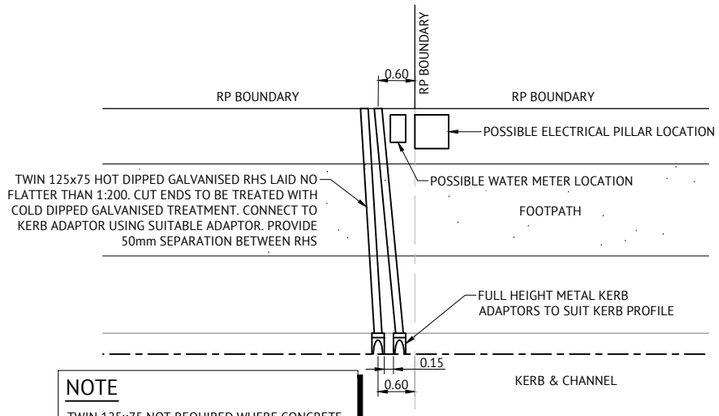
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C319	A

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

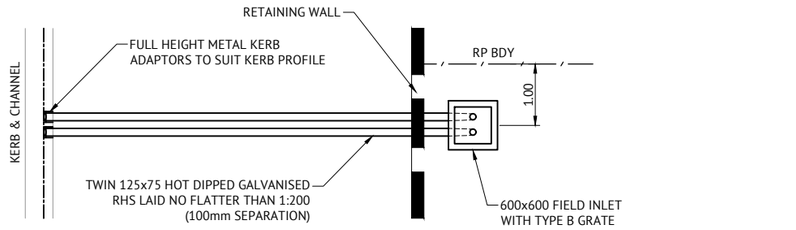


NOTE

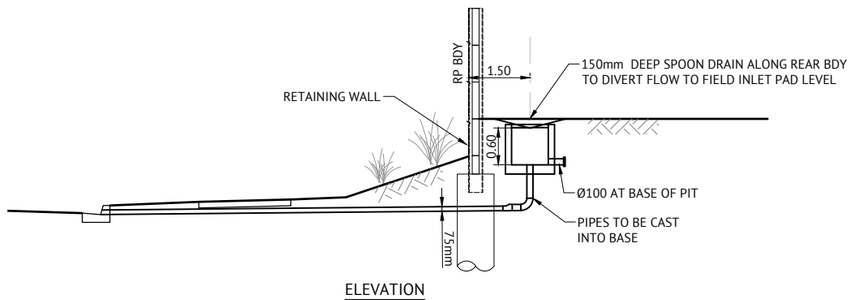
TWIN 125x75 NOT REQUIRED WHERE CONCRETE FOOTPATH DOES NOT EXIST IN VERGE

TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL

N.T.S.



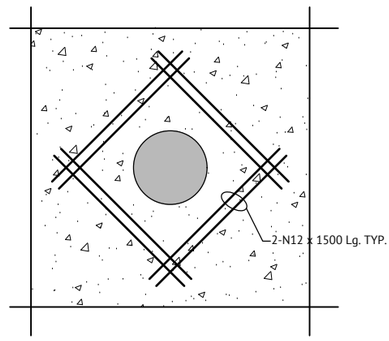
PLAN



ELEVATION

TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL

N.T.S.



TYPICAL DETAIL GRATED PIT IN CONCRETE PAVEMENT

1:20 @ A1

11/01/19

FOR CONSTRUCTION

REV	DATE	DESCRIPTION	RPEQ
B	21/09/18	MINOR AMENDMENTS TO KERB ADAPTOR OUTLET DETAILS	KH
A	02/07/18	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	21/09/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	21/09/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE DETAILS AND NOTES

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C400	B

N

LEGEND

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

11/01/19

FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

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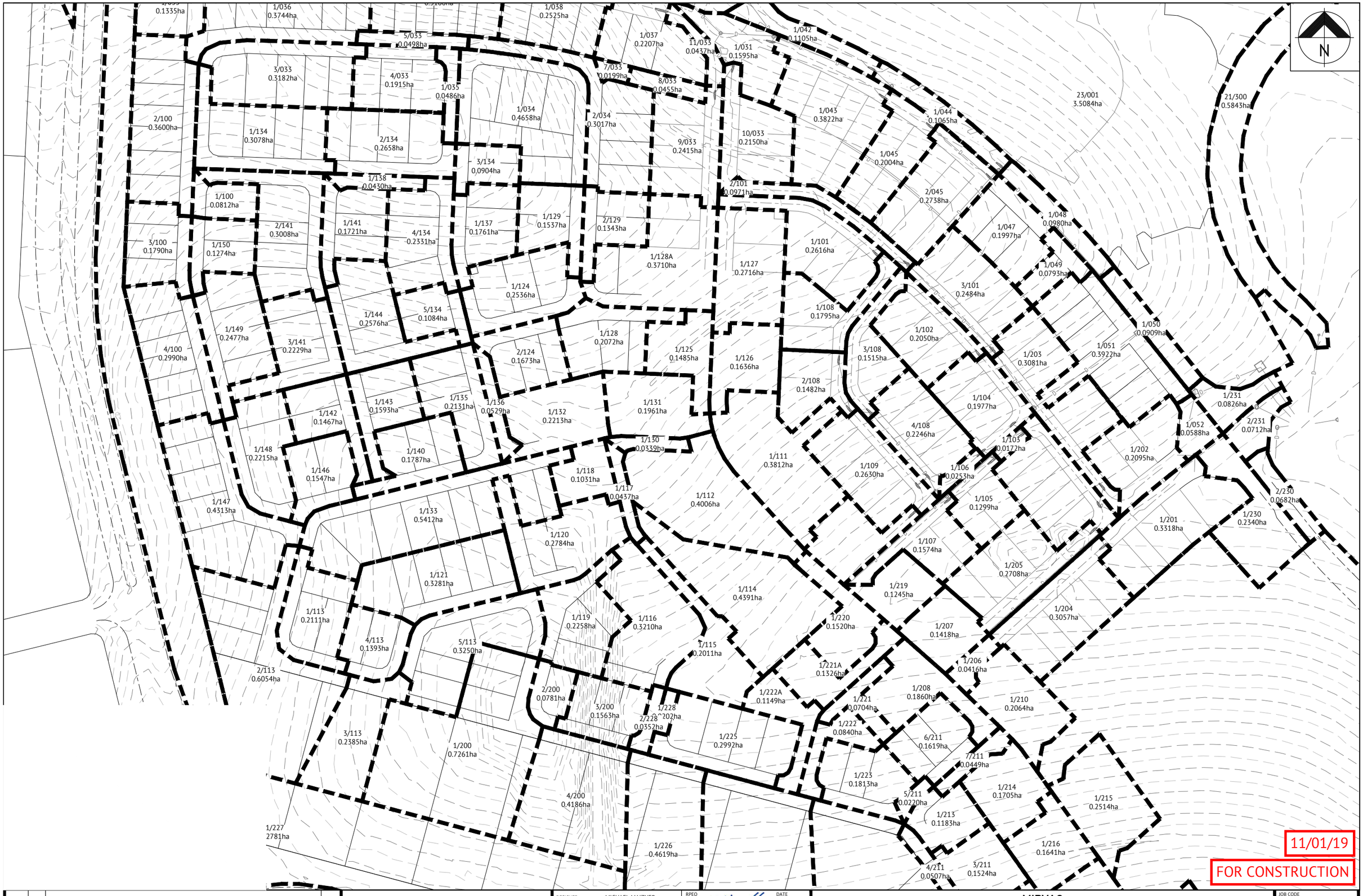
DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 02/07/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C401	A



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CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 02/07/18

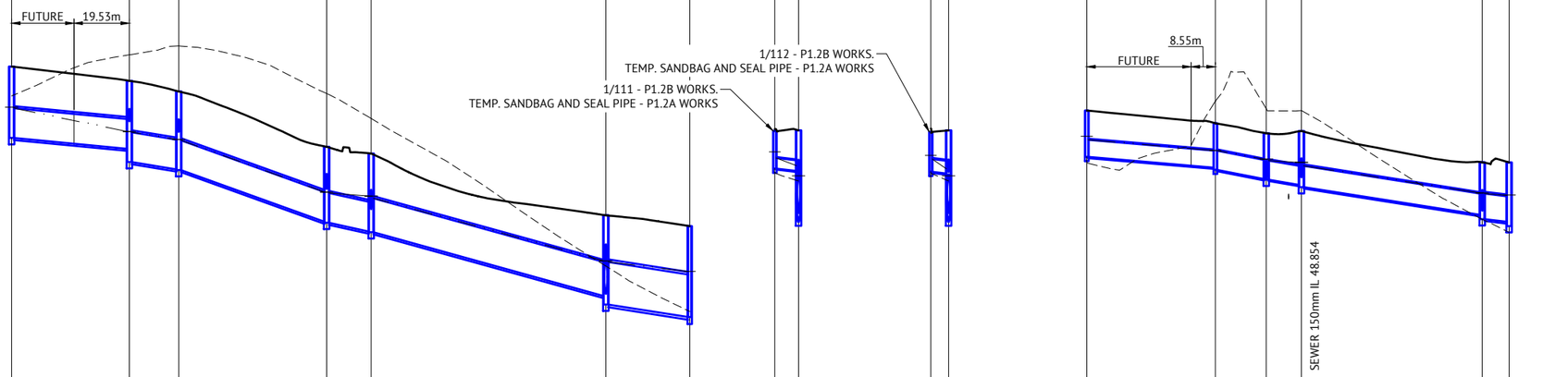
SCALE 0 30 60 90m

SCALE 1:1500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C402	A

STRUCTURE NAME	10/100	11/100	12/100	13/100	14/100	15/100	16/100	1/111	15/100	1/112	15/100	6/113	7/113	8/113	9/113	10/113	11/113
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 600mm
PRECINCT 1.2A WORKS																	
PRECINCT 1.2B WORKS																	
PIPE SIZE (mm)		1050	1050	1050	1050	1200	1500	375		450		600	675	675	750	900	
PIPE CLASS		2	2	2	2	2	2	2		2		2	2	2	2	2	
PIPE GRADE (%)		2.00%	1.50%	3.50%	2.00%	2.72%	1.50%	1.00%		1.00%		0.84%	1.83%	1.50%	1.54%	1.00%	
PIPE SLOPE (1 in X)		50.0	66.7	28.6	50.0	36.8	66.7	100.0		100.0		119.4	54.6	66.7	65.0	100.0	
FULL PIPE VELOCITY (m/s)		1.38	1.48	1.53	1.59	1.61	1.52	0.80		0.51		1.28	1.00	1.36	1.23	1.04	
PART FULL VELOCITY (m/s)		3.93	3.61	4.96	4.09	4.89	4.32	1.59		1.54		2.11	2.81	2.84	2.94	2.62	
PIPE FLOW (cumecs)		1.197	1.283	1.328	1.377	1.816	2.686	0.088		0.081		0.362	0.356	0.486	0.545	0.662	
PIPE CAPACITY AT GRADE (cumecs)		3.863	3.346	5.111	3.863	6.432	8.661	0.175		0.285		0.562	1.138	1.030	1.381	1.811	
DATUM RL	34.0							31.0		31.0		33.0					
WSE IN STRUCTURE	53.089	52.228	51.952	50.094	49.951	47.666		48.515	47.666	48.387	47.666	51.066	50.561	50.257	50.142	49.062	48.991
HGL IN PIPE	53.054	52.228	52.203	51.952	51.922	50.094	50.062	49.951	49.878	47.666	47.627	47.294	47.294	48.298	48.028	47.627	
DEPTH OF INVERT BELOW FSL	2.391	2.170	2.867	2.750	2.770	2.646	2.681	2.756	2.776	2.846	3.146	3.211	3.211	1.331	1.434	3.146	
INVERT LEVEL	52.134	51.850	51.153	50.892	50.872	49.046	49.012	48.698	48.678	46.427	46.127	45.683	45.683	47.923	47.839	46.127	
FINISHED (& EXISTING) SURFACE LEVEL	54.525	54.020	53.642	51.692	51.454	49.273	48.894	49.254	49.273	49.223	49.273	51.972	51.523	51.172	51.251	50.146	50.142
	(53.487)	(54.937)	(55.250)	(53.574)	(52.691)	(47.484)	(45.879)	(47.783)	(47.484)	(47.746)	(47.484)	(50.131)	(52.301)	(52.034)	(51.969)	(48.131)	(47.669)
CHAINAGE	-64.917	-23.388	-5.974	46.181	61.871	144.626	174.203	0.000	8.368	0.000	6.262	0.000	45.332	63.307	75.692	139.447	148.911
		41.529	17.414	52.155	15.690	82.755	29.577		8.368		6.262		45.332	17.974	12.385	63.755	9.464
LINE				100					111		112				113		



11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 5

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C403	A

STRUCTURE NAME	11/113		12/113	15/100	1/114	12/113	1/115	10/113	1/116	10/113	1/117	9/113	1/118	9/113	1/119	8/113	1/120	8/113	3/124	4/124	5/124
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA; EXT 600mm		IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET (SAG) L1L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1200mm DIA
PRECINCT 1.2A WORKS																					
PRECINCT 1.2B WORKS																					
PRECINCT 1.2B WORKS																					
PRECINCT 1.2A WORKS																					
FUTURE 28.80m																					
12/113 - P1.2B WORKS. TEMP. INLET. D50=200mm ROCK SCOUR PROTECTION ON GEOFABRIC SURROUNDING PIPE END - P1.2A WORKS																					
PIPE SIZE (mm)		1050		1050		375		375		600		375		375		375		525		450	600
PIPE CLASS		2		2		2		2		2		2		2		2		2		2	2
PIPE GRADE (%)		1.95%		1.94%		1.00%		1.00%		1.00%		1.00%		4.35%		1.00%		1.00%		2.20%	1.50%
PIPE SLOPE (1 in X)		51.3		51.4		100.0		100.1		100.0		100.0		23.0		100.1		100.0		45.4	66.7
FULL PIPE VELOCITY (m/s)		0.76		0.84		0.71		0.46		0.32		0.10		0.49		0.53		0.41		1.13	1.14
PART FULL VELOCITY (m/s)		3.30		3.39		1.54		1.38		1.55		0.89		2.37		1.43		1.56		2.55	2.55
PIPE FLOW (cumecs)		0.660		0.727		0.079		0.051		0.090		0.011		0.054		0.059		0.088		0.180	0.321
PIPE CAPACITY AT GRADE (cumecs)		3.815		3.809		0.175		0.175		0.614		0.175		0.366		0.175		0.430		0.423	0.752
DATUM RL	32.0				32.0		33.0		33.0		34.0		35.0		34.0		35.0		39.0		
WSE IN STRUCTURE	48.991		47.857	47.666	48.759	47.857	49.270	49.062	49.179	49.062	50.299	50.142	51.304	50.142	50.401	50.257	50.342	50.257	55.673	54.418	54.156
HGL IN PIPE	48.978	48.945	47.857	47.848 47.666	47.627	48.526	48.304	47.848	49.165	49.062	49.040	49.128	49.062	49.040	50.294	50.135	50.021	51.220	50.135	50.021	50.261	50.257	50.207	50.260	50.257	50.207	55.585	54.418	54.371	54.150
DEPTH OF INVERT BELOW FSL	2.096	2.246	2.669	2.689	2.696	3.146	1.309	1.359	2.689	1.309	1.386	2.006	1.564	1.664	2.006	1.329	1.373	1.980	1.355	1.605	1.980	1.312	1.365	1.640	1.460	1.570	1.640	1.696	1.657	1.807	1.860
INVERT LEVEL	48.045	47.895	46.818	46.798	46.577	46.127	48.151	48.129	46.798	48.790	48.760	48.140	48.528	48.482	48.140	49.919	49.878	49.271	50.845	49.646	49.271	49.838	49.806	49.532	49.657	49.602	49.532	55.135	53.921	53.771	53.453
FINISHED (& EXISTING) SURFACE LEVEL	50.142	(47.669)	49.488	(47.526)	49.273	(47.484)	49.460	(47.373)	49.488	(47.526)	50.098	(48.164)	50.146	(48.131)	50.092	(48.276)	50.146	(48.131)	51.248	(52.121)	51.251	(51.969)	52.200	(53.553)	51.251	(51.969)	51.150	(51.862)	51.172	(52.034)	51.117	(52.783)	51.172	(52.034)	49.532	56.831	(59.124)	55.577	(57.016)	55.314	(55.987)
CHAINAGE	148.911	55.237	204.147	11.386	215.533	0.000	2.221	2.221	0.000	2.942	2.942	0.000	4.639	4.639	0.000	4.066	4.066	0.000	27.572	27.572	0.000	3.147	3.147	0.000	5.553	5.553	0.000	55.082	55.082	21.161	76.243
LINE	113				114		115		116		117		118		119		120		124		

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 5

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C404	A

STRUCTURE NAME	5/124		6/124	14/100	1/125	6/124	1/126	6/124	1/127	5/124	1/128	4/124	1/128A	4/124	1/130	13/100	1/131	13/100	1/132	12/100	1/133	11/100
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1200mm DIA		IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 900mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1200mm 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	IPWEA KERB INLET 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 MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm
PRECINCT 1.2A WORKS	←			→																		
1/133 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
1/132 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
1/131 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
1/130 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
1/126 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
1/125 - P1.2B WORKS. TEMP. SANDBAG AND SEAL PIPE - P1.2A WORKS																						
SEWER 150mm IL 49.918																						
PIPE SIZE (mm)		600		600		375		375		375		375		525		375		450		375		375
PIPE CLASS		2		2		2		2		2		2		2		2		2		2		2
PIPE GRADE (%)		5.05%		7.50%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%		1.00%
PIPE SLOPE (1 in X)		19.8		13.3		100.0		100.0		100.0		100.0		100.0		100.2		100.0		100.0		100.0
FULL PIPE VELOCITY (m/s)		1.33		1.61		0.34		0.43		0.52		0.48		0.43		0.08		0.33		0.48		0.87
PART FULL VELOCITY (m/s)		4.15		5.06		1.26		1.35		1.42		1.39		1.59		0.82		1.37		1.39		1.62
PIPE FLOW (cumecs)		0.375		0.456		0.038		0.047		0.057		0.053		0.094		0.009		0.053		0.053		0.096
PIPE CAPACITY AT GRADE (cumecs)		1.381		1.682		0.175		0.175		0.175		0.175		0.430		0.175		0.285		0.175		0.175
DATUM RL	36.0				36.0		36.0		38.0		39.0		39.0		35.0		35.0		37.0		36.0	
WSE IN STRUCTURE	54.156		51.601	49.951	51.661	51.601	51.696	51.601	54.405	54.156	54.702	54.418	54.677	54.418	50.703	50.094	50.793	50.094	52.766	51.952	53.367	52.228
HGL IN PIPE	54.150	54.033	51.601	51.566	49.951	49.878	51.604	51.601	51.566	51.605	51.601	51.566	54.272	54.150	54.033	54.590	54.418	54.371	54.584	54.418	54.371	50.700	50.361	50.062	50.738	50.380	50.062	52.653	52.595	51.922	53.059	52.823	52.205
DEPTH OF INVERT BELOW FSL	1.860	1.880	1.559	1.579	1.920	2.776	1.313	1.416	1.579	1.320	1.443	1.579	1.315	1.464	1.880	1.315	1.417	1.807	1.471	1.544	1.807	1.308	1.387	2.681	1.406	1.443	2.681	1.316	1.388	2.770	1.317	1.395	2.867
INVERT LEVEL	53.453	53.433	50.986	50.966	49.535	48.678	51.191	51.129	50.966	51.150	51.101	50.966	53.897	53.850	53.433	54.215	54.160	53.771	54.059	54.034	53.771	50.325	50.305	49.012	50.288	50.249	49.012	52.278	52.254	50.872	52.684	52.625	51.153
FINISHED (& EXISTING) SURFACE LEVEL	55.314	(55.987)	52.545	(53.593)	51.454	(52.691)	52.504 (53.827)	52.545	(53.593)	52.469 (53.424)	52.545	(53.593)	55.212 (55.654)	55.314	(55.987)	55.531 (56.764)	55.577	(57.016)	55.530 (57.156)	55.577	(57.016)	51.632 (53.505)	51.692	(53.574)	51.694 (53.772)	51.692	(53.574)	53.594 (55.368)	53.642	(55.250)	54.001 (54.680)	54.020	(54.937)
CHAINAGE	76.243		124.683	143.767	0.000	6.207	6.207	0.000	4.803	4.803	0.000	4.718	4.718	0.000	5.498	5.498	0.000	2.522	2.522	0.000	2.011	2.011	0.000	3.938	3.938	0.000	2.468	2.468	0.000	5.931	5.931
		48.440		19.084																		
LINE	124				125		126		127		128		128A		130		131		132		133	

11/01/19

FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH RPEQ

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	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	HORIZONTAL 1:1000 (A1)
PROJECT DIRECTOR	DATE		VERTICAL 1:100 (A1)
JOSHUA STONE	02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 5
JOB CODE	MIR001-02A
SHEET NUMBER	C405
REV	A

STRUCTURE NAME	8/200	9/200	10/200	11/200	12/200	13/200	1/206	13/200	1/207	13/200	1/208	12/200	7/209	8/209	9/209	10/209	12/200	1/210	10/209
STRUCTURE DESCRIPTION	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA; EXT 600mm	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 KERB INLET L.I.L.: 3.6m Lintel		IPWEA KERB INLET L.I.L.: 3.6m Lintel		IPWEA KERB INLET (SAG) L.I.L.: 2.4m Lintel	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1200mm DIA	IPWEA MANHOLE 1200mm DIA	STORMWATER CHAMBER REFER STRUCTURE DETAILS DRAWING	IPWEA KERB INLET L.I.L.: 2.4m Lintel	IPWEA MANHOLE 1200mm DIA
PIPE SIZE (mm)		900	1050	1050	1200	1350	375		375		600		525	525	675	750		375	
PIPE CLASS		2	2	2	2	2	2		2		2		2	2	2	2		2	
PIPE GRADE (%)		1.70%	1.27%	0.30%	1.36%	1.34%	1.00%		1.00%		1.00%		5.15%	7.05%	3.12%	3.33%		1.00%	
PIPE SLOPE (1 in X)		58.8	78.7	333.3	73.8	74.7	100.0		100.0		100.0		19.4	14.2	32.0	30.0		100.0	
FULL PIPE VELOCITY (m/s)		1.37	1.06	1.10	0.90	1.18	0.14		0.33		0.17		1.95	2.13	1.83	1.58		0.43	
PART FULL VELOCITY (m/s)		3.43	3.10	1.83	3.24	3.68	0.98		1.25		1.29		4.34	4.99	4.02	4.17		1.35	
PIPE FLOW (cumecs)		0.870	0.917	0.953	1.020	1.695	0.015		0.036		0.048		0.421	0.460	0.655	0.698		0.047	
PIPE CAPACITY AT GRADE (cumecs)		2.362	3.079	1.496	4.542	6.176	0.175		0.175		0.614		0.976	1.142	1.486	2.034		0.175	
DATUM RL	31.0						30.0		30.0		30.0		32.0					31.0	
WSE IN STRUCTURE	48.612	47.800	47.071	47.046	46.676		46.401		46.443		46.933	46.676	50.725	48.928	48.159	47.210	46.676	47.311	47.210
HGL IN PIPE	48.456	47.800	47.771	47.071	47.058	47.041	46.985	46.670	46.563	46.352	46.391	46.352	46.352	46.391	46.352	46.352	46.352	46.352	46.352
DEPTH OF INVERT BELOW FSL	1.967	1.938	2.088	2.053	2.073	2.352	2.502	2.431	2.581	2.543	1.315	1.474	1.446	1.446	1.550	1.618	2.581	2.543	2.543
INVERT LEVEL	47.556	46.871	46.721	45.998	45.978	45.935	45.785	45.363	45.213	44.867	46.016	45.936	45.936	45.964	46.319	46.176	45.213	44.867	44.867
FINISHED (& EXISTING) SURFACE LEVEL	49.523 (49.970)	48.809 (47.799)	48.051 (46.341)	48.287 (45.958)	47.794 (46.727)	47.410 (45.961)	47.331 (46.322)	47.410 (45.961)	47.331 (45.846)	47.410 (45.961)	47.868 (47.306)	47.794 (46.727)	51.784 (52.209)	49.945 (49.942)	49.386 (49.322)	48.193 (47.693)	47.794 (46.727)	48.160 (47.633)	48.193 (47.693)
CHAINAGE	0.000	40.251 40.251	56.943 97.194	14.195 111.389	31.162 142.551	25.791 168.342	0.000	8.010 8.010	0.000	5.198 5.198	0.000	14.284 14.284	0.000	34.684 34.684	10.966 45.650	29.477 75.127	18.435 93.562	0.000	5.440 5.440
LINE		200					206		207		208		209					210	

PRECINCT 1.2B WORKS

9.27m FUTURE

8.00m FUTURE

SEWER 150mm TL 45.521

11/01/19

FOR CONSTRUCTION

02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

REVISIONS

Premise

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

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE		RPEQ 7295
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 4 OF 5

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C406	A

STRUCTURE NAME	5/211	6/211	7/211	9/209	1/214	8/209	1/219	11/200	1/220	11/200	1/221	10/200	1/221A	10/200	1/222	9/200	1/222A	9/200
STRUCTURE DESCRIPTION	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA KERB INLET (SAG) L1/L; 2.4m Lintel	IPWEA MANHOLE 1200mm DIA	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET (SAG) L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm	IPWEA KERB INLET L1/L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA; EXT 600mm

PRECINCT 1.2B WORKS

6.66m
FUTURE

SEWER 150mm IL 47.358

SEWER 150mm IL 46.350

PIPE SIZE (mm)		375	450	450	375		375		375		450		375		375		375	
PIPE CLASS		2	2	2	2		2		2		2		2		2		2	
PIPE GRADE (%)		4.82%	1.74%	0.30%	1.00%		1.00%		1.13%		1.00%		0.45%		1.00%		2.26%	
PIPE SLOPE (1 in X)		20.8	57.4	333.4	100.0		100.0		88.6		100.0		222.5		100.0		44.2	
FULL PIPE VELOCITY (m/s)		1.32	1.16	1.24	0.39		0.29		0.46		0.11		0.30		0.21		0.32	
PART FULL VELOCITY (m/s)		3.25	2.36	1.24	1.31		1.20		1.44		1.00		0.92		1.11		1.66	
PIPE FLOW (cumecs)		0.146	0.185	0.198	0.043		0.032		0.051		0.018		0.034		0.024		0.035	
PIPE CAPACITY AT GRADE (cumecs)		0.385	0.376	0.156	0.175		0.175		0.186		0.285		0.118		0.175		0.264	
DATUM RL		33.0			33.0		30.0		30.0		30.0		30.0		31.0		31.0	
WSE IN STRUCTURE	50.071		48.484	48.353	49.051	48.928	47.317	47.046	47.755	47.046	47.078	47.071	47.120	47.071	47.880	47.800	47.880	47.800
HGL IN PIPE	50.003	48.475	48.383	48.342	48.217	48.159	48.097	48.977	48.928	48.871	47.277	47.041	46.985	47.679	47.041	46.985	47.072	47.071	47.058	47.074	47.071	47.058	47.857	47.800	47.771	47.830	47.800	47.771
DEPTH OF INVERT BELOW FSL	1.370	1.323	1.398	1.403	1.423	1.739	1.964	1.328	1.378	1.599	1.315	1.465	2.502	1.338	1.381	2.502	1.399	1.474	2.073	1.330	1.398	2.073	1.315	1.388	2.088	1.315	1.413	2.088
INVERT LEVEL	49.628	47.951	47.876	47.704	47.684	47.647	47.422	48.602	48.566	48.346	46.902	46.822	45.785	47.304	46.905	45.785	46.602	46.578	45.978	46.679	46.653	45.978	47.482	47.421	46.721	47.455	47.396	46.721
FINISHED (& EXISTING) SURFACE LEVEL	50.997 (50.671)	49.274 (49.572)	49.107 (49.878)	49.386 (49.322)	49.930 (50.126)	49.945 (49.942)	48.217 (45.740)	48.287 (45.958)	48.642 (45.382)	48.287 (45.958)	48.002 (46.450)	48.051 (46.341)	48.009 (46.133)	48.051 (46.341)	48.798 (48.076)	48.809 (47.799)	48.770 (47.790)	48.809 (47.799)
CHAINAGE	0.000	34.811	34.811	9.855	44.665	12.273	56.938	0.000	3.549	3.549	0.000	8.017	8.017	0.000	35.333	35.333	0.000	2.495	2.495	0.000	5.870	5.870	0.000	6.123	6.123	0.000	2.598	2.598
LINE		211			214		219		220		221		221A		222		222A	

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAIZNER	RPEQ	DATE
CHECKED	MICHAEL MAIZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 02/07/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER DRAINAGE LONG SECTIONS - SHEET 5 OF 5

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C407	A

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN										HEADLOSSES											PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A			STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
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	
10/100	11/100	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															7.38	116	3.718	0	1197	41.529	2	1050	2	1.38	0.16	34 37	0	1	1.03	0.098	0.36	0.035		0.035	1.99	0.826	0.401	3.93	53.054	52.223	53.054	52.228	53.089	54.525	10/100
11/100	12/100	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															7.45	116	4.109	0	1283	17.414	1.5	1050	2	1.48	0.08	33 34	0	1	1.02	0.112	0.22	0.025		0.025	1.44	0.251	0.451	3.61	52.203	51.942	52.203	51.952	52.228	54.02	11/100
12/100	13/100	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															7.53	115	4.275	0	1328	52.155	3.5	1050	2	1.53	0.15	33 34	0	1	1.03	0.12	0.25	0.03		0.03	3.5	1.828	0.365	4.96	51.922	50.096	51.922	50.094	51.952	53.642	12/100
13/100	14/100	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															7.68	115	4.447	0	1377	15.69	2	1050	2	1.59	0.06	33 34	0	1	1.03	0.129	0.25	0.032		0.032	0.7	0.11	0.433	4.09	50.062	49.748	50.062	49.951	50.094	51.692	13/100
14/100	15/100	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															7.62	115	5.823	0	1816	82.755	2.72	1200	2	1.61	0.24	34 37	0	1	1.06	0.132	0.56	0.074		0.074	2.67	2.212	0.436	4.89	49.878	47.627	49.878	47.666	49.951	51.454	14/100
15/100	16/100	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															7.77	114	8.547	0	2686	29.577	1.5	1500	2	1.52	0.1					0.118	0.33	0.039		0.039	1.13	0.333	0.574	4.32	47.627	47.183	47.627	47.294	47.666	49.273	15/100
16/100																																								47.294	48.894	16/100
1/111	15/100	1/111	6.5	120	0.75	0.381	0.285	95	101	3.568	0.103	0.67	330	88	12	1/109	6.5	120	0.285	0	88	8.255	1.01	375	2	0.8	0.09	32	1		1.58	0.033	6.65	0.218		0.218	3.23	0.174	0.188	1.59	48.298	48.214	48.298	48.028	48.515	49.254	1/111
15/100																																								47.666	49.273	15/100
1/112	15/100	1/112	7.5	116	0.64	0.401	0.255	82	93	3.451	0.044	1.25	874	81	12	1/220	7.5	116	0.255	0	81	6.159	1.02	450	2	0.51	0.06	32	1		1.28	0.013	9.7	0.127		0.127	5.57	0.241	0.164	1.54	48.26	48.198	48.26	47.911	48.387	49.223	1/112
15/100																																								47.666	49.273	15/100
6/113	7/113	1/113 2/113 3/113 4/113 5/113 1/121															9.14	108	1.265	0	362	45.332	0.84	600	2	1.28	0.38	37 42 43	0	1	1.22	0.083	1.47	0.123	1.55	0.13	0.83	0.375	0.35	2.11	50.936	50.556	50.936	50.561	51.066	51.972	6/113
7/113	8/113	1/113 2/113 3/113 4/113 5/113 1/121															9.52	107	1.265	0	356	17.974	1.83	675	2	1	0.09	34 37	0	0.89	1.01	0.051	0.1	0.005		0.005	1.66	0.299	0.259	2.81	50.556	50.227	50.556	50.257	50.561	51.523	7/113
8/113	9/113	1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121															9.62	107	1.642	0	486	12.385	1.5	675	2	1.36	0.07	34 37	0	1	1.08	0.094	0.54	0.051		0.051	0.57	0.071	0.326	2.84	50.207	50.021	50.207	50.135	50.257	51.172	8/113
9/113	10/113	1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121															9.47	107	1.737	0	545	63.755	1.54	750	2	1.23	0.34	42 43	0	1	1.16	0.078	1.48	0.115	1.57	0.121	1.5	0.959	0.327	2.94	50.021	49.04	50.021	49.062	50.142	51.251	9/113
10/113	11/113	1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121															9.81	106	2.128	0	662	9.464	1	900	2	1.04	0.06	34 37	0	1	1.02	0.055	0.4	0.022		0.022	0.65	0.062	0.376	2.62	49.04	48.945	49.04	48.978	49.062	50.146	10/113
11/113	12/113	1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121															9.86	106	2.128	0	660	55.237	1.95	1050	2	0.76	0.21	37 42 43	0	0.86	1.04	0.03	1.11	0.033	1.56	0.046	1.97	1.089	0.296	3.3	48.945	47.868	48.945	47.857	48.991	50.142	11/113

11/01/19 FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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DESIGNED	MICHAEL MAIZNER	RPEQ	DATE
CHECKED	MICHAEL MAIZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 1 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C408	A

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES											PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
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	
12/113	15/100	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															7.76	114	2.213	0	727	11.386	1.94	1050	2	0.84	0.04	33 34	0	1	1.01	0.036	0.23	0.008		0.008	1.6	0.182	0.311	3.39	47.848	47.627	47.848	47.666	47.857	49.488	12/113
15/100																																									47.666	49.273	15/100
1/114	12/113	1/114	7.5	116	0.64	0.439	0.28	90	90	4.842	0.076	1	356	79	11	1/112	7.5	116	0.28	0	79	2.221	1	375	2	0.71	0.02	32	1		1.62	0.026	9.04	0.233		0.233	9.96	0.126	0.176	1.54	48.526	48.504	48.526	48.304	48.759	49.46	1/114
12/113																																									47.857	49.488	12/113
1/115	10/113	1/115	6	122	0.75	0.201	0.151	51	51		0.008	0.27	375	51	0	1/114	6	122	0.151	0	51	2.864	1.03	375	2	0.46	0.03	32	1		1.28	0.011	9.7	0.106		0.106	3.48	0.099	0.139	1.38	49.165	49.135	49.165	49.062	49.27	50.098	1/115
10/113																																									49.062	50.146	10/113
1/116	10/113	1/116	6	122	0.75	0.321	0.24	81	90		0.037	0.47	375	90	0	1/115	6	122	0.24	0	90	4.626	1	600	2	0.32	0.04	32	1		1.08	0.005	9.7	0.051		0.051	1.42	0.066	0.156	1.55	49.128	49.082	49.128	49.062	49.179	50.092	1/116
10/113																																									49.062	50.146	10/113
1/117	9/113	1/117	6	122	0.75	0.044	0.033	11	11	0.71	0.05	3.52	170	11	0	1/115	6	122	0.033	0	11	4.05	1	375	2	0.1	0.04	32	1		1.01	0.001	9.7	0.005		0.005	3.9	0.158	0.064	0.89	50.294	50.253	50.294	50.135	50.299	51.248	1/117
9/113																																									50.142	51.251	9/113
1/118	9/113	1/118	6	122	0.75	0.103	0.077	26	63	2.282	0.062	4.18	123	54	9	1/120	6	122	0.077	0	54	27.566	4.35	375	2	0.49	0.14	32	1		1.22	0.012	7	0.084		0.084	3.93	1.085	0.097	2.37	51.22	50.021	51.22	50.135	51.304	52.2	1/118
9/113																																									50.142	51.251	9/113
1/119	8/113	1/119	6	122	0.75	0.226	0.169	57	68	2.711	0.075	1.72	192	59	9	1/116	6	122	0.169	0	59	3.051	1.03	375	2	0.53	0.03	32	1		1.5	0.014	9.69	0.14		0.14	0.11	0.004	0.15	1.43	50.213	50.181	50.261	50.257	50.401	51.15	1/119
8/113																																									50.257	51.172	8/113
1/120	8/113	1/120	6	122	0.75	0.278	0.208	71	88		0.035	0.88	375	88	0	1/119	6	122	0.208	0	88	5.546	1	525	2	0.41	0.05	32	1		1.3	0.009	9.7	0.082		0.082	0.04	0.002	0.161	1.56	50.182	50.127	50.26	50.257	50.342	51.117	1/120
8/113																																									50.257	51.172	8/113
3/124	4/124	1/124 2/124 1/129 2/129															6.34	121	0.531	0	180	55.082	2.2	450	2	1.13	0.34	37 42 43	0	1	1.2	0.065	1.29	0.084	1.35	0.088	2.12	1.167	0.205	2.55	55.585	54.371	55.585	54.418	55.673	56.831	3/124
4/124	5/124	1/128 1/128A 1/124 2/124 1/129 2/129															6.55	120	0.959	0	321	21.161	1.5	600	2	1.14	0.13	34 37	0	1	1.08	0.066	0.72	0.047		0.047	1.04	0.22	0.274	2.55	54.371	54.053	54.371	54.15	54.418	55.577	4/124
5/124	6/124	1/127 1/128 1/128A 1/124 2/124 1/129 2/129															6.68	119	1.162	0	375	48.44	5.05	600	2	1.33	0.17	37 42 43	0	1	1.21	0.09	1.3	0.117	1.37	0.123	5.02	2.432	0.214	4.15	54.033	51.586	54.033	51.601	54.156	55.314	5/124
6/124	14/100	1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129															6.85	119	1.396	0	456	19.084	7.5	600	2	1.61	0.05	33 34	0	1	1.06	0.133	0.27	0.035		0.035	8.46	1.506	0.214	5.06	51.566	50.135	51.566	49.951	51.601	52.545	6/124
14/100																																									49.951	51.454	14/100
1/125	6/124	1/125	6	122	0.75	0.149	0.111	38	38	1.748	0.052	5.35	506	38	0	1/131	6	122	0.111	0	38	6.206	1	375	2	0.34	0.07	32	1		1.26	0.006	9.7	0.058		0.058	0.05	0.003	0.118	1.26	51.566	51.504	51.604	51.601	51.661	52.504	1/125
6/124																																									51.601	52.545	6/124
1/126	6/124	1/126	6	122	0.75	0.164	0.122	41	53	1.632	0.06	6.39	2121	47	6	1/111	6	122	0.122	0	47	4.801	1	375	2	0.43	0.05	32	1		1.46	0.009	9.7	0.091		0.091	0.07	0.004	0.133	1.35	51.525	51.476	51.605	51.601	51.696	52.469	1/126
6/124																																									51.601	52.545	6/124
1/127	5/124	1/127	6	122	0.75	0.272	0.203	69	69	2.164	0.062	5.43	1205	57	12	1/126	6	122	0.203	0	57	4.718	1	375	2	0.52	0.05	32	1		1.36	0.014	9.7	0.133		0.133	2.58	0.117	0.148	1.42	54.272	54.225	54.272	54.15	54.405	55.212	1/127
5/124																																									54.156	55.314	5/124
1/128	4/124	1/128	6	122	0.75	0.207	0.155	53	53	3.12	0.085	0.47	102	53	0	1/125	6	122	0.155	0	53	5.496	1	375	2	0.48	0.06	32	1		1.3	0.012	9.7	0.112		0.112	3.13	0.162	0.141	1.39	54.59	54.535	54.59	54.418	54.702	55.531	1/128
4/124																																									54.418	55.577	4/124
1/128A	4/124	1/128A	6	122	0.75	0.371	0.278	94	94		0.04	0.47	375	94	0	1/128	6	122	0.278	0	94	2.512	1	525	2	0.43	0.02	32	1		1.18	0.01	9.7	0.094		0.094	6.58	0.16	0.167	1.59	54.584	54.559	54.584	54.418	54.677	55.53	1/128A
4/124																																									54.418	55.577	4/124
1/130	13/100	1/130	6	122	0.75	0.034	0.025	9	9	0.7	0.05	1.87	178	9	0	1/112	6	122	0.025	0	9	1.991	1.01	375	2	0.08	0.02	32	1		1.01	0	9.7	0.003		0.003	16.83	0.304	0.056	0.82	50.7	50.68	50.7	50.361	50.703	51.632	1/130
13/100																																									50.094	51.692	13/100
1/131	13/100	1/131	6	122	0.75	0.196	0.147	50	53		0.009	1.42	375	53	0	1/130	6	122	0.147	0	53	3.926	1	450	2	0.33	0.04	32	1		1.12	0.006	9.7	0.055		0.055	9.09	0.267	0.132	1.37	50.738	50.699	50.738	50.38	50.793	51.694	1/131
13/100																																									50.094	51.692	13/100
1/132	12/100	1/132	6	122	0.75	0.221	0.166	56	56	2.255	0.065	2.83	253	53	3	1/131	6	122	0.166	0	53	2.468	1	375	2	0.48	0.03	32	1		1.3	0.012	9.7	0.113		0.113	10.48	0.172	0.141	1.39	52.653	52.629	52.653	52.395	52.766	53.594	1/132
12/100																																									51.952	53.642	12/100
1/133	11/100	1/133	7	118	0.75	0.541	0.405	133	133	3.507	0.096	1.52	191	96	37	1/118	7	118	0.405	0	96	5.915	1	375	2	0.87	0.06	32	1		1.82	0.039	7.96	0.308		0.308	3.98	0.14	0.198	1.62	53.059	53	53.059	52.823	53.367	54.001	1/133
11/100																																									52.228	54.02	11/100
8/200	9/200	1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223															9.4	107	2.902	0	870	40.251	1.7	900	2	1.37	0.18	42 43	0	1	1.17	0.095	1.53	0.146	1.64	0.156	1.63	0.656	0.378	3.43	48.456	47.771	48.456	47.8	48.612	49.523	8/200
9/200	10/200	1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223															9.58	107	3.051	0	917	56.943	1.27	1050	2	1.06	0.27	34 37	0	0.99	1.03	0.057	0.51	0.029		0.029	1.23	0.699	0.393	3.1	47.771	47.048	47.771	47.071	47.8	48.809	9/200
10/200	11/200	1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223															9.84	106	3.203	0	953	14.195	0.3	1050	2	1.1	0.14	33 34	0	1	1.04	0.062	0.22	0.013		0.013	0.12	0.017	0.609	1.83	47.028	46.985	47.058	47.041	47.071	48.051	10/200

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MICHAEL MAJZNER	
CHECKED	MICHAEL MAJZNER	
PROJECT MANAGER	JOSHUA STONE	
PROJECT DIRECTOR	JOSHUA STONE	DATE 02/07/18
RPEQ	KEITH HOWELLS	DATE 02/07/18 RPEQ 7295
SCALE		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 2 OF 3
JOB CODE	MIR001-02A
SHEET NUMBER	C409
REV	A

LOCATION			TIME			SUB-CATCHMENT RUNOFF				INLET DESIGN								DRAIN DESIGN									HEADLOSSES											PART FULL		DESIGN LEVELS						
			tc	I	C	A	CA	Q						Qg	Qb		tc	I	CA		Qp	L	S			Vf=Q/A		STRUCTURE RATIOS			V2/2g	Ku	hu	Kw	hw	Sf	hf	dn	Vn							
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	
11/200	12/200	1/219 1/220 1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223															9.98	105	3.41	0	1020	31.162	1.36	1200	2	0.9	0.13	37 42 43	0	0.98	1.05	0.042	1.35	0.056	1.46	0.061	1.01	0.315	0.387	3.24	46.985	46.563	46.985	46.67	47.046	48.287	11/200
12/200	13/200	1/208 1/210 1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216 1/219 1/220 1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223															9.12	109	5.631	0	1695	25.791	1.34	1350	2	1.18	0.1	42 43	0	1	1.08	0.072	1.5	0.107	1.59	0.114	0.82	0.211	0.484	3.68	46.563	46.217	46.563	46.352	46.676	47.794	12/200
13/200																																												46.352	47.41	13/200
1/206	13/200	1/206	6	122	0.75	0.042	0.031	11	15	1.586	0.049	1.28	593	15	0	1/204	6	122	0.031	0	15	7.995	1	375	2	0.14	0.08	32	1		1.03	0.001	9.7	0.01		0.01	0.49	0.039	0.075	0.98	46.391	46.311	46.391	46.352	46.401	47.331	1/206
13/200																																												46.352	47.41	13/200
1/207	13/200	1/207	6	122	0.75	0.142	0.106	36	36	2.232	0.064	1.28	582	36	0	1/205	6	122	0.106	0	36	5.159	1.01	375	2	0.33	0.05	32	1		1.14	0.005	9.7	0.052		0.052	0.75	0.039	0.115	1.25	46.391	46.339	46.391	46.352	46.443	47.331	1/207
13/200																																												46.352	47.41	13/200
1/208	12/200	1/208	6	122	0.75	0.186	0.139	47	48		0.005	0.35	375	48	0	1/207	6	122	0.139	0	48	14.282	1	600	2	0.17	0.11	32	1		1.02	0.001	9.7	0.014		0.014	1.74	0.248	0.113	1.29	46.919	46.776	46.919	46.67	46.933	47.868	1/208
12/200																																												46.676	47.794	12/200
7/209	8/209	1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216															6.93	118	1.315	0	421	34.684	5.15	525	2	1.95	0.13	33 34	0	1	1.09	0.193	0.25	0.048		0.048	5.04	1.749	0.241	4.34	50.677	48.891	50.677	48.928	50.725	51.784	7/209
8/209	9/209	1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216															7.05	118	1.442	0	460	10.966	7.05	525	2	2.13	0.03	33 34	0	1	1.11	0.231	0.25	0.057		0.057	6.49	0.712	0.232	4.99	48.871	48.097	48.871	48.159	48.928	49.945	8/209
9/209	10/209	1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216															6.97	118	2.066	0	655	29.477	3.12	675	2	1.83	0.12	34 37	0	1	1.09	0.171	0.36	0.061		0.061	3.01	0.887	0.314	4.02	48.097	47.177	48.097	47.21	48.159	49.386	9/209
10/209	12/200	1/210 1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216															7.02	118	2.216	0	698	18.435	3.33	750	2	1.58	0.07	33 34	0	1	1.04	0.127	0.26	0.033		0.033	2.75	0.507	0.303	4.17	47.177	46.563	47.177	46.67	47.21	48.193	10/209
12/200																																												46.676	47.794	12/200
1/210	10/209	1/210	6	122	0.75	0.206	0.154	52	52	2.173	0.063	3.06	908	47	5	1/206	6	122	0.154	0	47	5.384	1.01	375	2	0.43	0.06	32	1		1.24	0.009	9.7	0.091		0.091	0.17	0.009	0.133	1.35	47.22	47.165	47.22	47.21	47.311	48.16	1/210
10/209																																												47.21	48.193	10/209
5/211	6/211	1/211 2/211 3/211 4/211 1/213 5/211	6	122	0.75	0.022	0.016	6	6	0.736	0.03	5	333	6	0	6/211	6.46	120	0.477	0	146	34.811	4.82	375	2	1.32	0.17	34 37	0.04	1	1.18	0.089	0.76	0.068		0.068	4.39	1.528	0.16	3.25	50.003	48.326	50.003	48.475	50.071	50.997	5/211
6/211	7/211	1/211 2/211 3/211 4/211 1/213 5/211 6/211	6	122	0.75	0.162	0.121	41	41	1.896	0.056	4.67	288	41	0	1/208	6.63	119	0.598	0	185	9.698	1.77	450	2	1.16	0.07	37 42 43	0.22	0.83	1.35	0.069	1.33	0.092	1.45	0.1	0.42	0.042	0.223	2.36	48.326	48.154	48.383	48.342	48.484	49.274	6/211
7/211	9/209	1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211	6	122	0.75	0.045	0.034	11	13		0	0.29	383	13	0	6/211	6.7	119	0.631	0	198	12.258	0.3	450	2	1.24	0.21	37 42 43	0.07	1	1.49	0.079	1.58	0.124	1.72	0.135	0.48	0.059	0.45	1.24	48.134	48.097	48.217	48.159	48.353	49.107	7/211
9/209																																												48.159	49.386	9/209
1/214	8/209	1/214	6	122	0.75	0.171	0.128	43	44	2.216	0.049	5.89	369	43	2	7/211	6	122	0.128	0	43	3.528	1.01	375	2	0.39	0.04	32	1		1.2	0.008	9.7	0.074		0.074	1.39	0.049	0.126	1.31	48.977	48.941	48.977	48.928	49.051	49.93	1/214
8/209																																												48.928	49.945	8/209
1/219	11/200	1/219	6	122	0.75	0.125	0.093	32	32	2.093	0.062	1.29	607	32	0	1/207	6	122	0.093	0	32	8.001	1	375	2	0.29	0.08	32	1		1.11	0.004	9.7	0.04		0.04	2.94	0.229	0.108	1.2	47.277	47.197	47.277	47.041	47.317	48.217	1/219
11/200																																												47.046	48.287	11/200
1/220	11/200	1/220	6	122	0.75	0.152	0.114	39	51	2.521	0.072	1.29	608	51	0	1/221	6	122	0.114	0	51	35.329	1.13	375	2	0.46	0.35	32	1		1.2	0.011	7	0.076		0.076	1.81	0.547	0.134	1.44	47.679	47.28	47.679	47.041	47.755	48.642	1/220
11/200																																												47.046	48.287	11/200
1/221	10/200	1/221	6	122	0.75	0.07	0.053	18	18		0	0.38	383	18	0	1/208	6	122	0.053	0	18	2.495	1	450	2	0.11	0.02	32	1		1.06	0.001	9.7	0.006		0.006	0	0	0.076	1	47.052	47.028	47.072	47.071	47.078	48.002	1/221
10/200																																												47.071	48.051	10/200
1/221A	10/200	1/221A	6	122	0.75	0.133	0.099	34	34		0	0.83	375	34	0	LOST	6	122	0.099	0	34	5.869	0.45	375	2	0.3	0.09	32	1		1.17	0.005	9.7	0.046		0.046	0.04	0.002	0.137	0.92	47.054	47.028	47.074	47.071	47.12	48.009	1/221A
10/200																																												47.071	48.051	10/200
1/222	9/200	1/222	6	122	0.75	0.084	0.063	21	24	1.839	0.055	1.45	179	24	0	1/221	6	122	0.063	0	24	6.078	1.01	375	2	0.21	0.06	32	1		1.06	0.002	9.7	0.023		0.023	0.94	0.057	0.093	1.11	47.857	47.796	47.857	47.8	47.88	48.798	1/222
9/200																																												47.8	48.809	9/200
1/222A	9/200	1/222A	6	122	0.75	0.115	0.086	29	35	2.142	0.062	1.45	181	35	0	1/221A	6	122	0.086	0	35	2.575	2.28	375	2	0.32	0.02	32	1		1.13	0.005	9.7	0.05		0.05	1.14	0.03	0.092	1.66	47.83	47.771	47.83	47.8	47.88	48.77	1/222A
9/200																																												47.8	48.809	9/200

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	SCALE	
	DATE 02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q2 MINOR STORM CALCULATIONS - 3 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C410	A

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	
10/100	11/100	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												7.38	259	4.968	0	2661	41.529	2	1050	2	3.07	0.16	34 37	0	1	1.29	0.482	0.64	0.307		0.307	1.6	0.666	0.641	4.81	53.054	52.223	53.054	52.388	53.361	54.525	0		10/100
11/100	12/100	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												7.45	258	5.491	0	2821	17.414	1.5	1050	2	3.26	0.08	33 34	0	1	1.18	0.541	0.22	0.12		0.12	1.07	0.186	0.739	4.33	52.203	51.942	52.268	52.083	52.388	54.02	0		11/100
12/100	13/100	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												7.53	257	5.712	0	3013	52.155	3.5	1050	2	3.48	0.15	33 34	0	1	1.15	0.618	0.26	0.161		0.161	1.47	0.768	0.58	6.14	51.922	50.096	51.922	51.154	52.083	53.642	0		12/100
13/100	14/100	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												7.68	256	5.942	0	3384	15.69	2	1050	2	3.91	0.06	34	0	1	2.04	0.779	0.27	0.209		0.209	1.53	0.241	0.762	5.03	50.062	49.748	50.945	50.704	51.154	51.692	0		13/100
14/100	15/100	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												7.62	256	7.781	0	4365	82.755	2.72	1200	2	3.86	0.24	34 37	0	1	1.69	0.76	0.56	0.426		0.426	1.25	1.037	0.725	6.11	49.878	47.627	50.278	49.241	50.704	51.454	0		14/100
15/100	16/100	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												7.77	255	11.478	0	6140	29.577	1.5	1500	2	3.47	0.1					0.502	0.33	0.166		0.166	0.61	0.182	0.933	5.32	47.627	47.183	49.076	48.894	49.241	49.273	0		15/100
16/100																																								48.894	48.894			16/100
1/111	15/100	1/111	6.5	269	1	0.381	0.381	285	377	0.67	0	377	1/109	6.5	269	0.381	0	0	8.255	1.01	375	2	0	0.09	32				0	0	0		0	0	0	0	0	48.298	48.214	49.241	49.241	49.241	49.254	2163	377	1/111
15/100																																								49.241	49.273			15/100
1/112	15/100	1/112	7.5	258	0.89	0.401	0.356	254	1600	1.25	0	1600	1/220	7.5	258	0.356	0	0	6.159	1.02	450	2	0	0.06	32				0	0	0		0	0	0	0	0	48.26	48.198	49.241	49.241	49.241	49.223	2531	1600	1/112
15/100																																								49.241	49.273			15/100
6/113	7/113	1/113 2/113 3/113 4/113 5/113 1/121												9.14	241	1.728	0	732	45.332	0.84	600	2	2.59	0.38	42 43	0	1	2.69	0.205	1.23	0.252	1.32	0.27	0.85	0.386	0.6	2.59	50.936	50.556	51.679	51.293	51.949	51.972	0		6/113
7/113	8/113	1/113 2/113 3/113 4/113 5/113 1/121												9.52	237	1.728	0	715	17.974	1.83	675	2	2	0.09	34 37	0	0.89	2.09	0.204	0.1	0.021		0.021	0.72	0.13	0.388	3.36	50.556	50.227	51.272	51.142	51.293	51.523	0		7/113
8/113	9/113	1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121												9.62	236	2.232	0	1056	12.385	1.5	675	2	2.95	0.07	34 37				0	0	0		0	0	0	0.57	3.27	50.207	50.021	51.142	51.142	51.142	51.172	0		8/113
9/113	10/113	1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121												9.69	236	2.379	0	1219	63.755	1.54	750	2	2.76	0.34	37 42 43	0	1	2.49	0.308	1.23	0.379	1.28	0.396	0.95	0.607	0.548	3.53	50.021	49.04	50.746	50.14	51.142	51.251	0		9/113
10/113	11/113	1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121								0.34				9.81	235	2.88	0	1891	9.464	1	900	2	2.97	0.06	34 37	0	1	2.22	0.343	0.56	0.193		0.193	0.83	0.078	0.78	3.23	49.04	48.945	49.947	49.869	50.14	50.146	0		10/113
11/113	12/113	1/115 1/116 1/117 1/118 1/119 1/120 1/113 2/113 3/113 4/113 5/113 1/121								1.34				9.86	234	2.88	0	1887	55.237	1.95	1050	2	2.18	0.21	37 42 43	0	0.86	1.95	0.242	1.09	0.264	1.41	0.34	0.48	0.264	0.522	4.39	48.945	47.868	49.605	49.341	49.945	50.142	0		11/113

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 1 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C411	A

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	
12/113	15/100	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												7.76	255	3	0	1856	11.386	1.94	1050	2	2.14	0.04	33	0	1	2.42	0.234	0.2	0.047		0.047	0.46	0.053	0.517	4.37	47.848	47.627	49.294	49.241	49.341	49.488	0		12/113
15/100																																										49.241	49.273			15/100
1/114	12/113	1/114	7.5	258	0.89	0.439	0.39	279	471	1	0	471	1/112	7.5	258	0.39	0	0	2.221	1	375	2	0	0.02	32				0	0	0		0	0	0	0	0	48.526	48.504	49.341	49.341	49.341	49.46	1929	471	1/114
12/113																																										49.341	49.488			12/113
1/115	10/113	1/115	6	275	1	0.201	0.201	154	567	0.27	375	192	1/114	6	275	0.201	0	375	2.864	1.03	375	2	3.4	0.03	32				0	0	0		0	0	0	0.375	3.4	49.165	49.135	50.14	50.14	50.14	50.098		567	1/115
10/113																																										50.14	50.146			10/113
1/116	10/113	1/116	6	275	1	0.321	0.321	245	788	0.47	375	413	1/115	6	275	0.321	0	375	4.626	1	600	2	1.33	0.04	32				0	0	0		0	0	0	0.339	2.28	49.128	49.082	50.14	50.14	50.14	50.092		788	1/116
10/113																																										50.14	50.146			10/113
1/117	9/113	1/117	6	275	1	0.044	0.044	33	33	3.52	33	0	1/115	6	275	0.044	0	33	4.05	1	375	2	0.3	0.04	32	1		3.26	0.005	3.51	0.016		0.016	0.04	0.001	0.111	1.22	50.294	50.253	51.127	51.125	51.143	51.248	1680	33	1/117
9/113																																										51.142	51.251			9/113
1/118	9/113	1/118	6	275	1	0.103	0.103	79	283	4.18	150	133	1/120	6	275	0.103	0	150	27.566	4.35	375	2	1.36	0.14	32	1		2.32	0.094	4.12	0.389		0.389	0.73	0.202	0.167	3.15	51.22	50.021	51.328	51.125	51.717	52.2	1656	283	1/118
9/113																																										51.142	51.251			9/113
1/119	8/113	1/119	6	275	1	0.226	0.226	172	567	1.72	24	543	1/116	6	275	0.226	0	24	3.051	1.03	375	2	0.21	0.03	32	1		3.5	0.002	3.26	0.008		0.008	0.02	0.001	0.093	1.11	50.213	50.181	51.143	51.142	51.15	51.15	1867	567	1/119
8/113																																										51.142	51.172			8/113
1/120	8/113	1/120	6	275	1	0.278	0.278	213	458	0.88	375	83	1/119	6	275	0.278	0	375	5.546	1	525	2	1.73	0.05	32				0	0	0		0	0	0	0.379	2.24	50.182	50.127	51.142	51.142	51.142	51.117		458	1/120
8/113																																										51.142	51.172			8/113
3/124	4/124	1/124 2/124 1/129 2/129												6.34	271	0.709	0	192	55.082	2.2	450	2	1.21	0.34	42 46 43 47	0	1	1.29	0.074	1.58	0.118	1.74	0.129	1.22	0.672	0.213	2.6	55.585	54.371	55.585	54.912	55.714	56.831	0		3/124
4/124	5/124	1/128 1/128A 1/124 2/124 1/129 2/129												6.55	268	1.281	0	622	21.161	1.5	600	2	2.2	0.13	37 42 43	0	1	1.91	0.247	0.93	0.23	0.95	0.235	1.03	0.217	0.416	2.97	54.371	54.053	54.682	54.465	54.917	55.577	0		4/124
5/124	6/124	1/127 1/128 1/128A 1/124 2/124 1/129 2/129												6.68	267	1.553	0	734	48.44	5.05	600	2	2.6	0.17	37 42 43	0	1	1.75	0.344	1.26	0.432	1.31	0.451	4.48	2.171	0.311	4.96	54.033	51.586	54.033	51.863	54.484	55.314	0		5/124
6/124	14/100	1/125 1/126 1/127 1/128 1/128A 1/124 2/124 1/129 2/129												6.77	266	1.86	0	1036	19.084	7.5	600	2	3.66	0.05	34 37	0	1	1.49	0.684	0.43	0.297		0.297	4.52	0.862	0.34	6.25	51.566	50.135	51.566	50.704	51.863	52.545	0		6/124
14/100																																										50.704	51.454			14/100
1/125	6/124	1/125	6	275	1	0.149	0.149	113	580	5.35	201	378	1/131	6	275	0.149	0	201	6.206	1	375	2	1.82	0.07	32	1		3.49	0.17	3.27	0.555		0.555	1.32	0.082	0.375	1.82	51.566	51.504	51.945	51.863	52.5	52.504	1607	580	1/125
6/124																																										51.863	52.545			6/124
1/126	6/124	1/126	6	275	1	0.164	0.164	125	209	6.39	117	92	1/111	6	275	0.164	0	117	4.801	1	375	2	1.06	0.05	32	1		2.65	0.057	4.57	0.26		0.26	0.44	0.021	0.224	1.7	51.525	51.476	51.884	51.863	52.144	52.469	1567	209	1/126
6/124																																										51.863	52.545			6/124
1/127	5/124	1/127	6	275	1	0.272	0.272	207	207	5.43	124	84	1/126	6	275	0.272	0	124	4.718	1	375	2	1.12	0.05	32	1		2.45	0.064	5.11	0.327		0.327	0.5	0.023	0.232	1.72	54.272	54.225	54.488	54.465	54.816	55.212	1607	207	1/127
5/124																																										54.484	55.314			5/124
1/128	4/124	1/128	6	275	1	0.207	0.207	158	636	0.47	170	466	1/125	6	275	0.207	0	170	5.496	1	375	2	1.54	0.06	32	1		3.16	0.121	3.62	0.438		0.438	0.94	0.052	0.298	1.81	54.59	54.535	54.964	54.912	55.402	55.531	1787	636	1/128
4/124																																										54.917	55.577			4/124
1/128A	4/124	1/128A	6	275	1	0.371	0.371	283	310	0.47	280	30	1/128	6	275	0.371	0	280	2.512	1	525	2	1.29	0.02	32	1		2.47	0.085	5.04	0.43		0.43	0.42	0.011	0.309	2.12	54.584	54.559	54.923	54.912	55.354	55.53		310	1/128A
4/124																																										54.917	55.577			4/124
1/130	13/100	1/130	6	275	1	0.034	0.034	26	1030	1.87	155	875	1/112	6	275	0.034	0	155	1.991	1.01	375	2	1.4	0.02	32	1		3.21	0.1	3.58	0.357		0.357	0.78	0.016	0.274	1.79	50.7	50.68	51.17	51.154	51.527	51.632	1815	1030	1/130
13/100																																										51.154	51.692			13/100
1/131	13/100	1/131	6	275	1	0.196	0.196	150	1258	1.42	255	1004	1/130	6	275	0.196	0	255	3.926	1	450	2	1.6	0.04	32	1		3.07	0.131	3.72	0.486		0.486	0.8	0.031	0.332	2.03	50.738	50.699	51.186	51.154	51.672	51.694	1	1258	1/131
13/100																																										51.154	51.692			13/100
1/132	12/100	1/132	6	275	1	0.221	0.221	169	946	2.83	216	730	1/131	6	275	0.221	0	216	2.468	1	375	2	1.96	0.03	32	1		2.99	0.195	3.82	0.746		0.746	2.68	0.04	0.375	1.96	52.653	52.629	52.653	52.587	53.399	53.594	1743	946	1/132
12/100																																										52.083	53.642			12/100
1/133	11/100	1/133	7	263	1	0.541	0.541	395	395	1.52	191	204	1/118	7	263	0.541	0	191	5.915	1	375	2	1.73	0.06	32	1		2.76	0.153	4.33	0.66		0.66	1.95	0.082	0.375	1.73	53.059	53	53.059	52.943	53.719	54.001	1867	395	1/133
11/100																																										52.388	54.02			11/100
8/200	9/200	1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223												9.4	238	4.014	0	1484	40.251	1.7	900	2	2.33	0.18	42 43	0	1	1.5	0.278	1.53	0.424	1.63	0.454	1.43	0.576	0.517	3.92	48.456	47.771	48.456	47.88	48.909	49.523	0		8/200
9/200	10/200	1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223												9.58	237	4.213	0	1707	56.943	1.27	1050	2	1.97	0.27	34 37	0	0.99	1.1	0.198	0.55	0.109		0.109	0.73	0.418	0.559	3.65	47.771	47.048	47.771	47.353	47.88	48.809	0		9/200
10/200	11/200	1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223												9.84	234	4.416	0	2004	14.195	0.3	1050	2	2.31	0.14	33 34	0	1	1.31	0.273	0.25	0.067		0.067	0.54	0.076	1.05	2.31	47.028	46.985	47.286	47.21	47.353	48.051	0		10/200

11/01/19 FOR CONSTRUCTION

REVISIONS			
02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
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WEB: www.premise.com.au

DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	SCALE	RPEQ 7295
PROJECT DIRECTOR	DATE		
JOSHUA STONE	02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 2 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C412	A

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	
11/200	12/200	1/219 1/220 1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223												9.98	233	4.693	0	1976	31.162	1.36	1200	2	1.75	0.13	37 42 43	0	0.98	1.2	0.156	1.11	0.172	1.18	0.183	0.26	0.08	0.554	3.87	46.985	46.563	47.038	46.958	47.221	48.287	0		11/200
12/200	13/200	1/208 1/210 1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216 1/219 1/220 1/221 1/221A 1/222 1/222A 1/225 1/226 1/227 1/228 2/228 1/200 2/200 3/200 4/200 1/223 2/223												9.12	241	7.651	0	3433	25.791	1.34	1350	2	2.4	0.1	37 42 43	0	1	1.31	0.293	1.35	0.395	1.42	0.416	0.74	0.191	0.719	4.43	46.563	46.217	46.563	46.372	46.978	47.794	0		12/200
13/200																																								46.372	47.41			13/200
1/206	13/200	1/206	6	275	1	0.042	0.042	32	86	1.28	80	6	1/204	6	275	0.042	0	80	7.995	1	375	2	0.73	0.08	32	1		1.64	0.027	8.93	0.241		0.241	0.24	0.019	0.178	1.55	46.391	46.311	46.391	46.372	46.632	47.331	2531	86	1/206
13/200																																								46.372	47.41			13/200
1/207	13/200	1/207	6	275	1	0.142	0.142	108	1851	1.28	250	1601	1/205	6	275	0.142	0	250	5.159	1.01	375	2	2.27	0.05	32	1		3.5	0.262	3.25	0.853		0.853	2.04	0.106	0.375	2.27	46.391	46.339	46.477	46.372	47.33	47.331	2720	1851	1/207
13/200																																								46.372	47.41			13/200
1/208	12/200	1/208	6	275	1	0.186	0.186	142	1644	0.35	375	1269	1/207	6	275	0.186	0	375	14.282	1	600	2	1.33	0.11	32	1		2.12	0.09	6.48	0.582		0.582	0.37	0.053	0.339	2.28	46.919	46.776	47.011	46.958	47.593	47.868	1	1644	1/208
12/200																																								46.978	47.794			12/200
7/209	8/209	1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216												6.93	264	1.757	0	767	34.684	5.15	525	2	3.54	0.13	33 34	0	1	1.32	0.641	0.26	0.167		0.167	4.62	1.602	0.351	4.99	50.677	48.891	50.677	49.074	50.844	51.784	0		7/209
8/209	9/209	1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216												7.05	262	1.927	0	860	10.966	7.05	525	2	3.97	0.03	33 34	0	1	1.39	0.805	0.25	0.204		0.204	5.12	0.562	0.34	5.79	48.871	48.097	48.871	48.309	49.074	49.945	0		8/209
9/209	10/209	1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216												6.91	264	2.754	0	1219	29.477	3.12	675	2	3.41	0.12	34 37	0	1	1.31	0.592	0.36	0.211		0.211	2.61	0.771	0.465	4.63	48.097	47.177	48.097	47.327	48.309	49.386	0		9/209
10/209	12/200	1/210 1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211 1/214 1/217 1/218 2/218 1/209 2/209 3/209 4/209 5/209 1/215 1/216												7.02	263	2.961	0	1305	18.435	3.33	750	2	2.95	0.07	33 34	0	1	1.2	0.445	0.26	0.116		0.116	1.37	0.253	0.437	4.88	47.177	46.563	47.211	46.958	47.327	48.193	0		10/209
12/200																																								46.978	47.794			12/200
1/210	10/209	1/210	6	275	1	0.206	0.206	158	158	3.06	103	54	1/206	6	275	0.206	0	103	5.384	1.01	375	2	0.94	0.06	32	1		2.11	0.045	6.52	0.291		0.291	0.35	0.019	0.207	1.65	47.22	47.165	47.346	47.327	47.637	48.16	2165	158	1/210
10/209																																								47.327	48.193			10/209
5/211	6/211	1/211 2/211 3/211 4/211 1/213 5/211	6	275	1	0.022	0.022	17	17	5	17	0	6/211	6.46	269	0.637	0	329	34.811	4.82	375	2	2.97	0.17	34 37	0.05	1	3.11	0.452	0.66	0.298		0.298	3.51	1.221	0.267	3.91	50.003	48.326	50.496	49.274	50.794	50.997	1631	17	5/211
6/211	7/211	1/211 2/211 3/211 4/211 1/213 5/211 6/211	6	275	1	0.162	0.162	124	540	4.67	-70	610	1/208	6.63	267	0.799	0	251	9.698	1.77	450	2	1.58	0.07	37 42 43	0	0.83	2.72	0.127	0.5	0.064	0.63	0.08	0.78	0.077	0.269	2.53	48.326	48.154	49.02	48.943	49.1	49.274	1631	540	6/211
7/211	9/209	1/211 2/211 3/211 4/211 1/213 5/211 6/211 7/211	6	275	1	0.045	0.045	34	536	0.29	120	416	6/211	6.7	267	0.844	0	368	12.258	0.3	450	2	2.31	0.21	37 42 43	0.32	1	2.83	0.273	1.57	0.43	1.63	0.445	1.67	0.204	0.45	2.31	48.134	48.097	48.513	48.309	48.958	49.107		536	7/211
9/209																																								48.309	49.386			9/209
1/214	8/209	1/214	6	275	1	0.171	0.171	130	502	5.89	106	396	7/211	6	275	0.171	0	106	3.528	1.01	375	2	0.96	0.04	32	1		2.11	0.047	6.53	0.307		0.307	0.37	0.013	0.21	1.66	48.977	48.941	49.087	49.074	49.394	49.93	1914	502	1/214
8/209																																								49.074	49.945			8/209
1/219	11/200	1/219	6	275	1	0.125	0.125	95	695	1.29	221	474	1/207	6	275	0.125	0	221	8.001	1	375	2	2	0.08	32	1		3.15	0.205	3.64	0.745		0.745	1.59	0.127	0.375	2	47.277	47.197	47.337	47.21	48.082	48.217	2531	695	1/219
11/200																																								47.221	48.287			11/200
1/220	11/200	1/220	6	275	1	0.152	0.152	116	796	1.29	-202	998	1/221	6	275	0.152	0	602	35.329	1.13	375	2	5.45	0.35	32				1.515	0	0		0	1.13	0.399	0.375	5.45	47.679	47.28	47.679	47.279	47.679	48.642	2531	796	1/220
11/200																																								47.221	48.287			11/200
1/221	10/200	1/221	6	275	1	0.07	0.07	54	1074	0.38	183	891	1/208	6	275	0.07	0	183	2.495	1	450	2	1.15	0.02	32	1		2.45	0.068	5.09	0.344		0.344	0.41	0.01	0.262	1.9	47.052	47.028	47.363	47.353	47.707	48.002	3	1074	1/221
10/200																																								47.353	48.051			10/200
1/221A	10/200	1/221A	6	275	1	0.133	0.133	101	1186	0.83	164	1021	LOST	6	275	0.133	0	164	5.869	0.45	375	2	1.49	0.09	32	1		3.06	0.113	3.73	0.422		0.422	0.88	0.052	0.375	1.49	47.054	47.028	47.405	47.353	47.827	48.009		1186	1/221A
10/200																																								47.353	48.051			10/200
1/222	9/200	1/222	6	275	1	0.084	0.084	64	117	1.45	95	22	1/221	6	275	0.084	0	95	6.078	1.01	375	2	0.86	0.06	32	1		1.88	0.038	7.66	0.289		0.289	0.29	0.018	0.197	1.62	47.857	47.796	47.898	47.88	48.187	48.798	1904	117	1/222
9/200																																								47.88	48.809			9/200
1/222A	9/200	1/222A	6	275	1	0.115	0.115	88	1252	1.45	167	1084	1/221A	6	275	0.115	0	167	2.575	2.28	375	2	1.52	0.02	32	1		2.64	0.117	4.6	0.539		0.539	0.91	0.024	0.217	2.53	47.83	47.771	47.903	47.88	48.443	48.77	1904	1252	1/222A
9/200																																								47.88	48.809			9/200

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

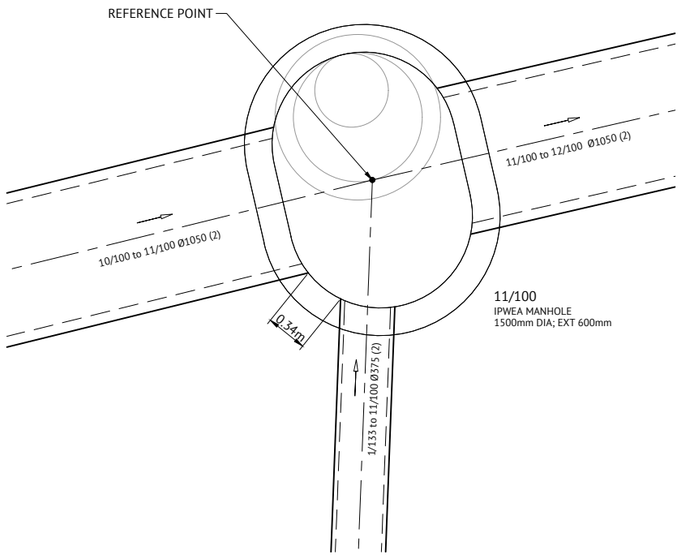
Premise

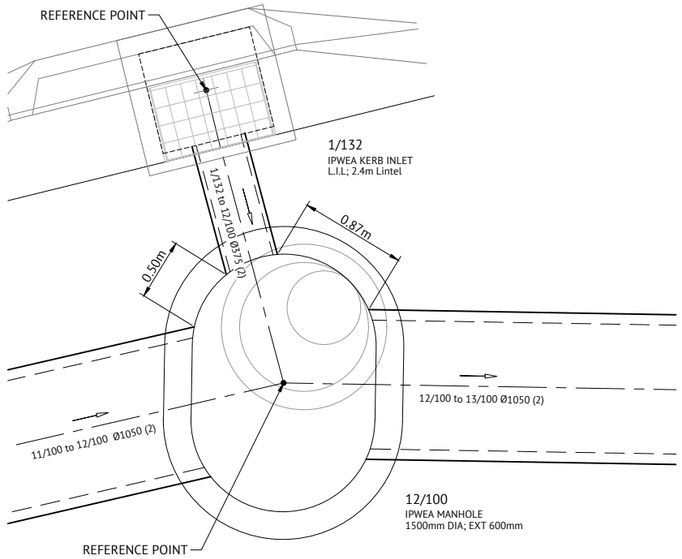
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

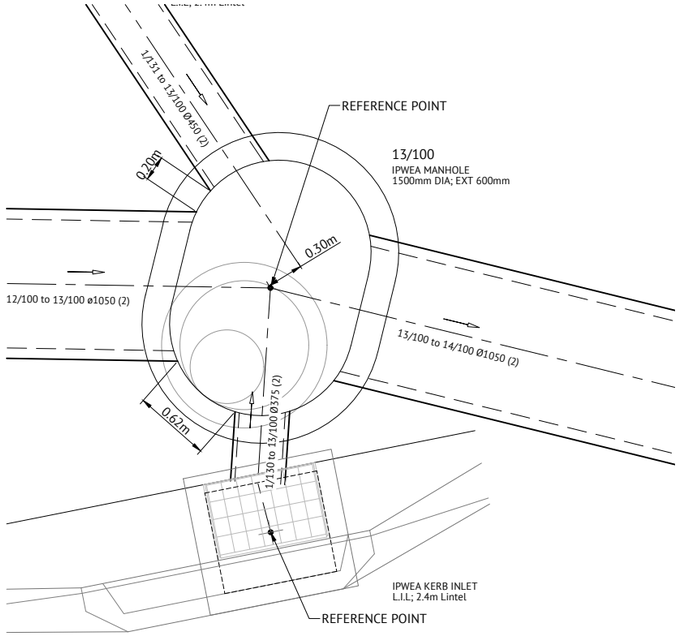
DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	SCALE	
	DATE 02/07/18		

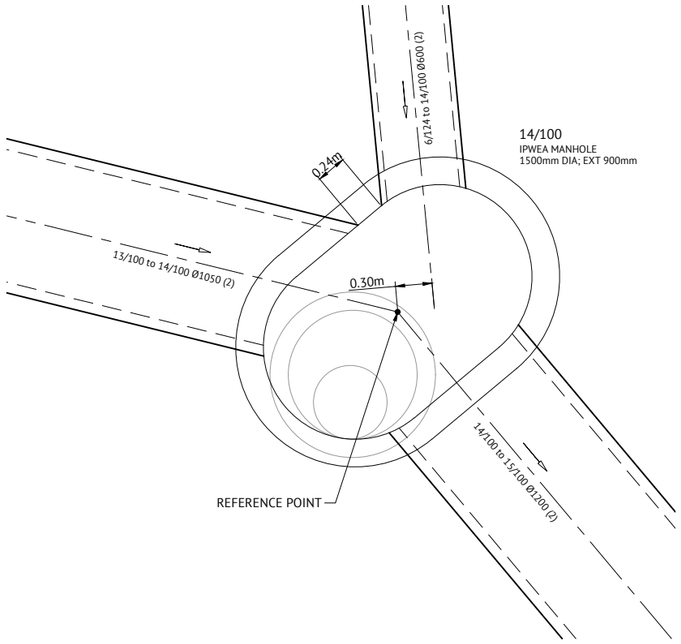
CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	Q100 MAJOR STORM CALCULATIONS - 3 OF 3

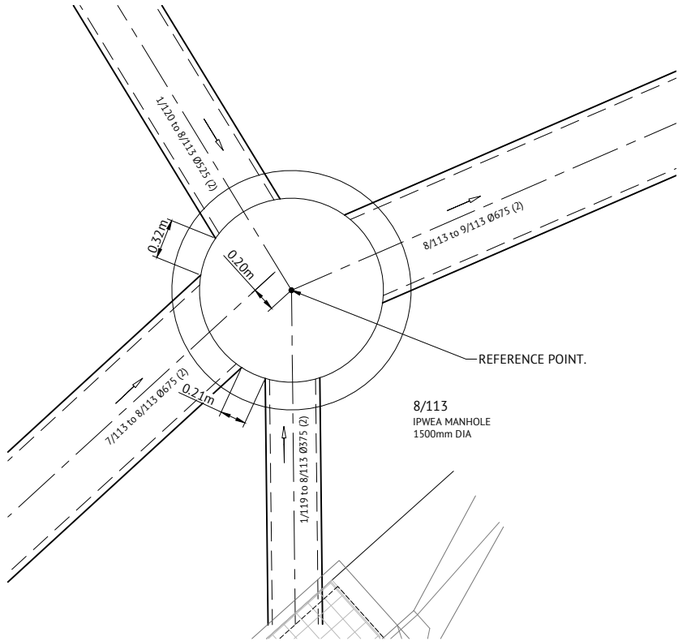
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C413	A

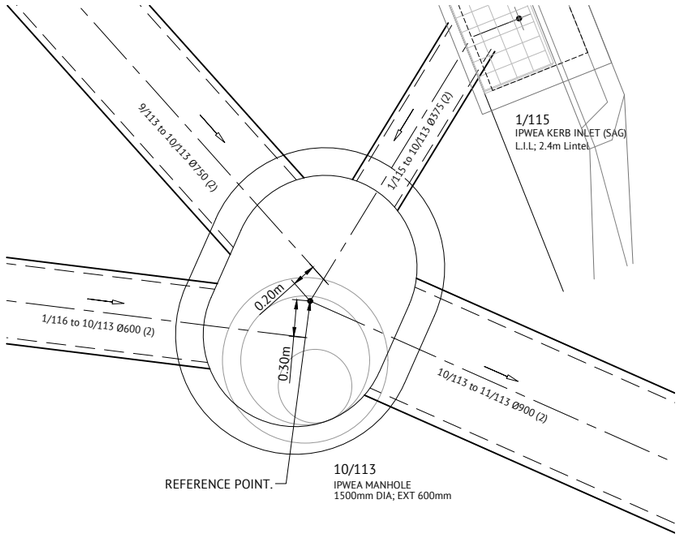












11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	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	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

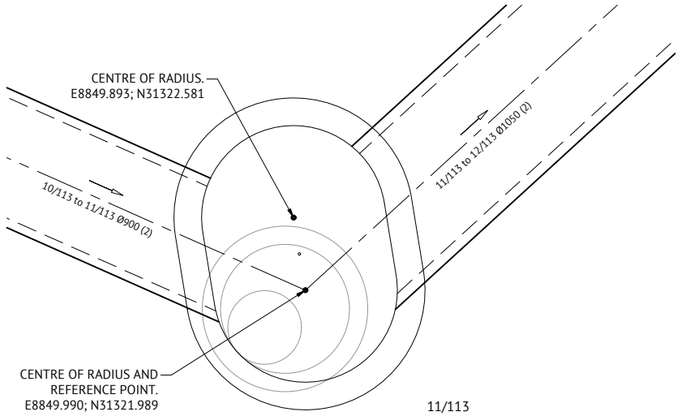
RPEQ: KEITH HOWELLS, RPEQ 7295 — DATE: 02/07/18

SCALE: 0 0.5 1.0 1.5m

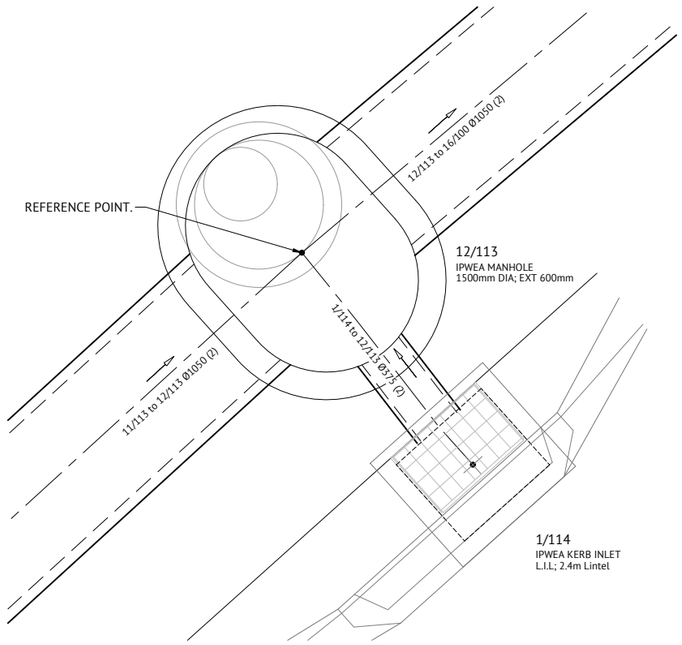
SCALE 1:25 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 1 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C414	A

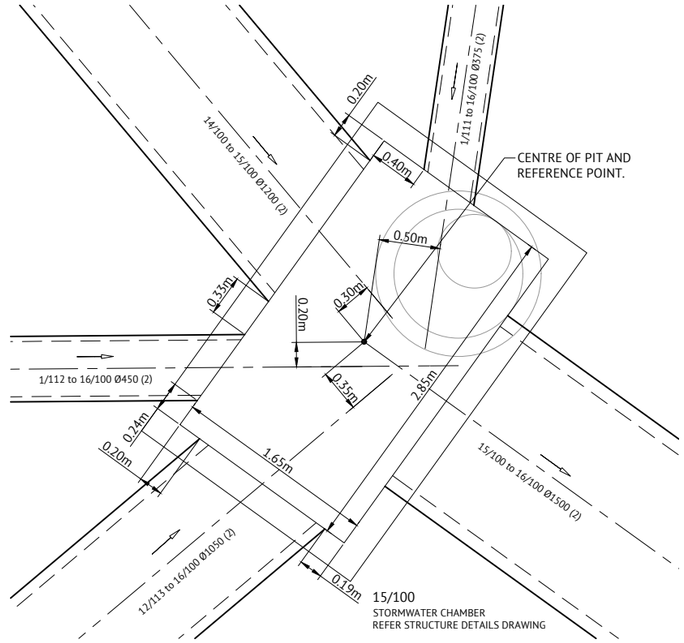


11/113
IPWEA MANHOLE
1500mm DIA; EXT 600mm

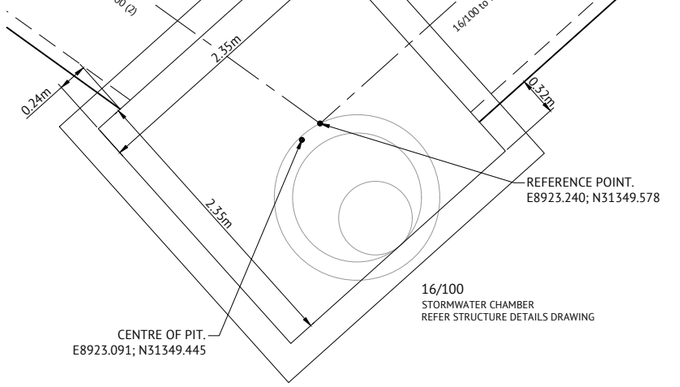


12/113
IPWEA MANHOLE
1500mm DIA; EXT 600mm

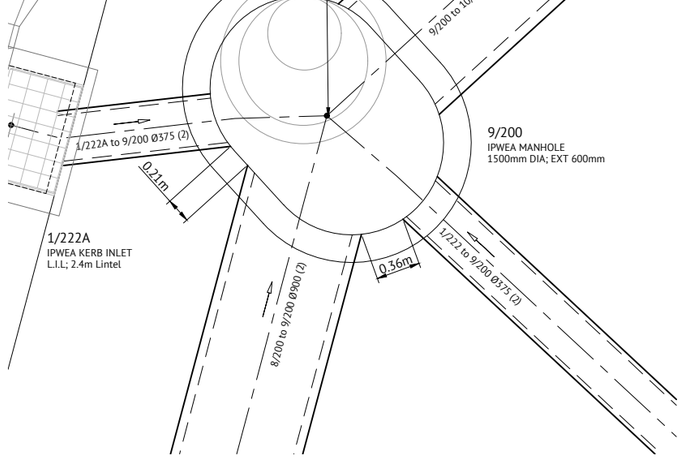
1/114
IPWEA KERB INLET
L.I.L; 2.4m Lintel



15/100
STORMWATER CHAMBER
REFER STRUCTURE DETAILS DRAWING

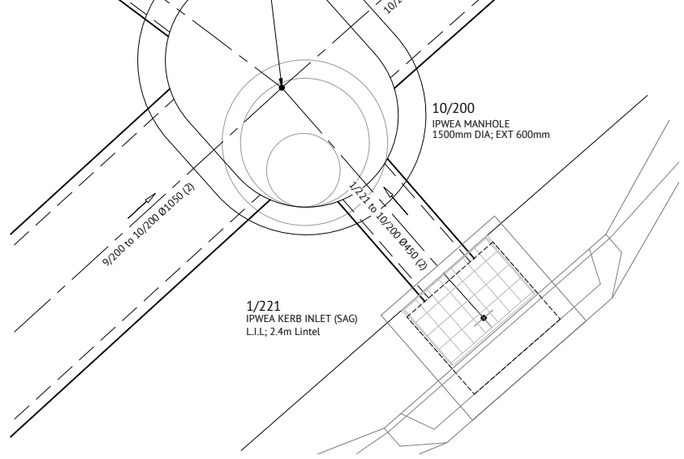


16/100
STORMWATER CHAMBER
REFER STRUCTURE DETAILS DRAWING



9/200
IPWEA MANHOLE
1500mm DIA; EXT 600mm

1/222A
IPWEA KERB INLET
L.I.L; 2.4m Lintel



10/200
IPWEA MANHOLE
1500mm DIA; EXT 600mm

1/221
IPWEA KERB INLET (SAG)
L.I.L; 2.4m Lintel

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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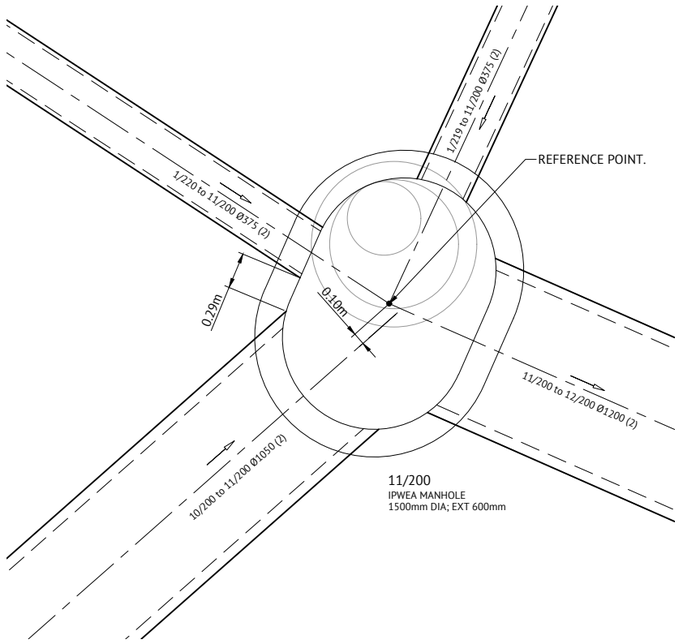
DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 02/07/18

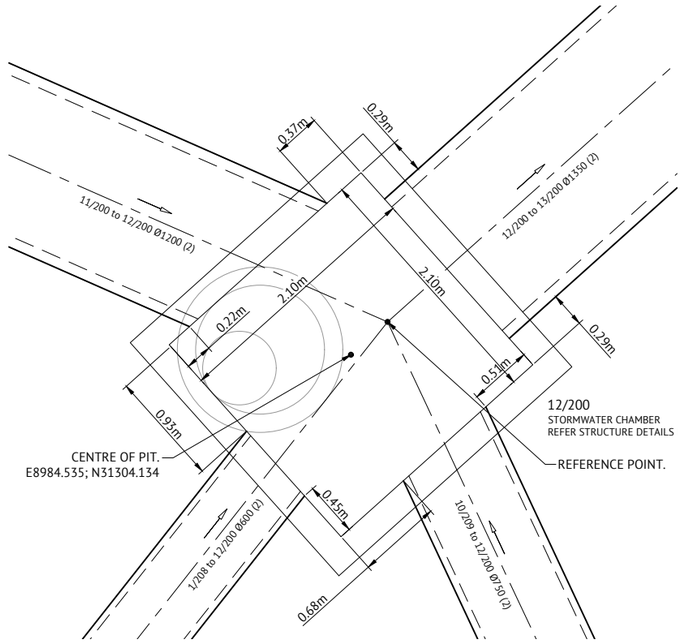
SCALE 0 0.5 1.0 1.5m
SCALE 1:25 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 2 OF 3

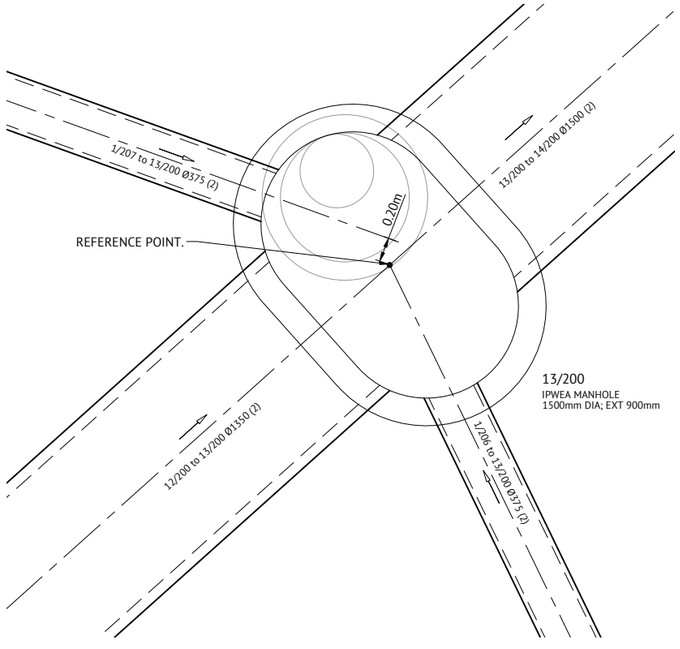
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C415	A



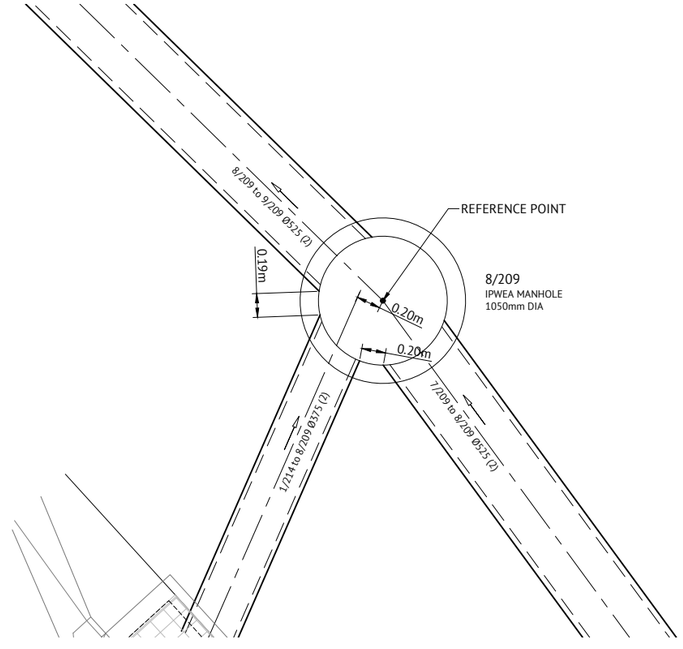
11/200
IPWEA MANHOLE
1500mm DIA; EXT 600mm



12/200
STORMWATER CHAMBER
REFER STRUCTURE DETAILS



13/200
IPWEA MANHOLE
1500mm DIA; EXT 900mm



8/209
IPWEA MANHOLE
1050mm DIA

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ: KEITH HOWELLS, RPEQ 7295 — DATE 02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER STRUCTURE DETAILS - SHEET 3 OF 3

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C416	A

EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

SEWERAGE RETICULATION

LOCALITY PLAN

0 100 200 300m

SCALE 1:5000 (A1)

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C500	SEWERAGE RETICULATION LOCALITY PLAN & NOTES
C501	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2
C502	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2
C503	SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 4
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 4
C505	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 4
C506	SEWERAGE RETICULATION LONG SECTIONS - SHEET 4 OF 4
C507	SEWERAGE RETICULATION NOTES AND DETAILS

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR UNDER LOGAN WATER SUPERVISION AT THE DEVELOPER'S COST.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. EACH ALLOTMENT SHALL BE SERVED BY A DN100 PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN150 PROPERTY CONNECTION SHALL BE PROVIDED.
7. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
8. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300mm AND A MAXIMUM OF 750mm.
9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER,BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
13. BENCH MARK AND LEVELS TO AHD.
14. REFER TO BULK EARTHWORKS DRAWINGS FOR FINISHED SURFACE LEVELS.
15. ALL SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT. FOR INFORMATION PHONE: 1300 369 915.
16. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS TO ALLOW CONSTRUCTION OF THE SEWER SYSTEM.
17. THE CONTRACTOR IS RESPONSIBLE FOR EXCAVATION AND SAFE SHORING TO ALLOW SEWER MAINTENANCE SECTION TO CARRY OUT LIVE SEWER WORK.
18. CONSTRUCT TRENCHES TO SEQ-SEW-1200-2, WITH EMBEDMENT TYPE 3 SUPPORT MINIMUM TO SEQ-SEW-1201-1, AND ROAD CROSSINGS TO SEQ-SEW-1205-1 AND LCC STANDARDS.
19. CONSTRUCT PROPERTY CONNECTIONS TO SEQ-SEW-1100 SERIES.
20. CONSTRUCT MAINTENANCE STRUCTURES TO SEQ-SEW-1300 SERIES.
21. CONSTRUCT BULKHEADS TO SEQ-SEW-1206-1.
22. INSTALL DETECTABLE MARKER TAPE ON ALL MAINS AND PROPERTY CONNECTIONS.
23. CONTRACTOR SHALL ENSURE THAT ALL SEWER PROPERTY CONNECTIONS ARE CONSTRUCTED WITH SUFFICIENT DEPTH TO PROVIDE ADEQUATE CLEARANCE WHERE CROSSING UNDERNEATH WATER MAINS. B

VEGETATION PROTECTION

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

SAFETY

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

INDEMNITY - EXISTING SERVICES

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

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

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

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

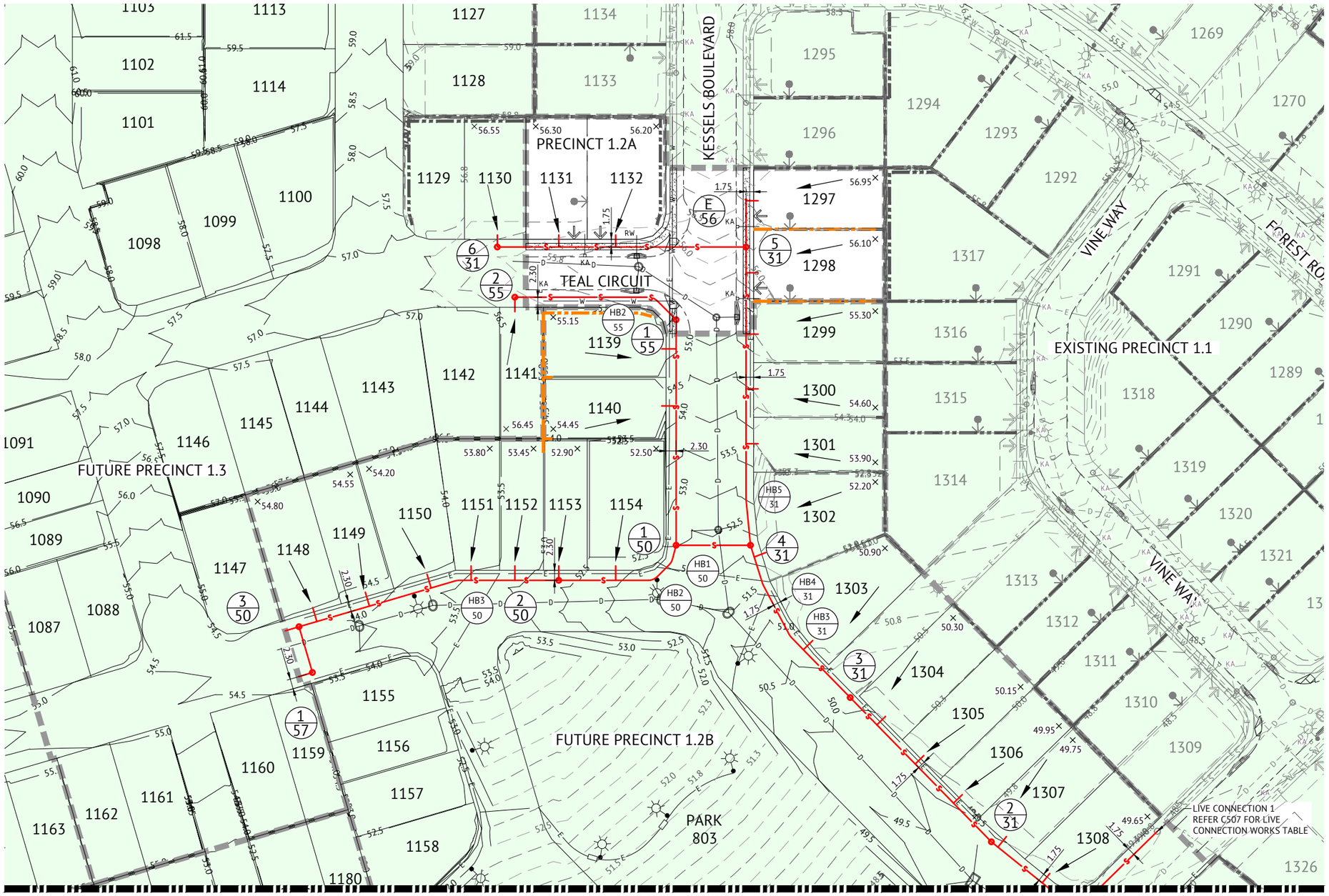
NAME OF ESTATE		EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
SUBDIVIDER		MIRVAC
APPLICATION No.		-
SP DELEGATE APPROVAL DATE		5 JUNE 2017
COUNCIL DA APPROVAL No.		DEV 2016 / 768
DRAWING/PLAN No.		C501-C502
No. OF ALLOTMENTS		25
AREA IN Ha.		0.31 Ha
LENGTH OF SEWERS	DN150 uPVC SN8	486m

Premise

PROJECT DIRECTOR	DATE	RPEQ	DATE	JOB CODE	SHEET NUMBER	REVISION
JOSHUA STONE	10/01/19	KEITH HOWELLS RPEQ 7295	10/01/19	MIR001-02A	C500	B

11/01/19

FOR CONSTRUCTION



JOINS DRAWING C502

LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 1.2m OFFSET TO BDY OR 6.5m WHERE ZERO LOT LINE EXISTS (U.N.O.).
- MAINTENANCE STRUCTURE
- PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HORIZONTAL BEND (3m RADIUS).
- LOT NUMBER
- TRUNK SEWER
- STORMWATER DRAINAGE
- DRINKING WATER MAIN
- ELECTRICAL (PROPOSED)
- FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- STAGE BOUNDARY

LEGEND - EXISTING

- Ø100mm EXISTING PROPERTY CONNECTION
- STORMWATER DRAINAGE
- GRAVITY SEWER
- DRINKING WATER MAIN
- ELECTRICITY

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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

11/01/19

FOR CONSTRUCTION

REVISIONS			
DATE	REV	DESCRIPTION	
02/07/18	A	ORIGINAL ISSUE	KH

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	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE 02/07/18	

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C501	A

JOINS DRAWING C501

N

EXISTING PRECINCT 1.1

FUTURE PRECINCT 1.5

PARK 803

LIVE CONNECTION 1
REFER C507 FOR LIVE CONNECTION WORKS TABLE

VINE WAY

GROVE STREET

EMERALD PARADE

11/01/19

FOR CONSTRUCTION

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.
FOR SEWER RETICULATION LEGEND REFER TO DWG No. C501.

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

Premise

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		RPEQ	DATE
DESIGNED	MICHAEL MAIZNER		
CHECKED	MICHAEL MAIZNER	KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE		02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C502	A

SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 4

LINE 4

MAINTENANCE HOLE / SHAFT NO.	2/4	HB1/4	3/4	4/4	5/4	HB2/4	6/4
MH / MS COVER TYPE	B		B	B	B		B
MH / MS TYPE	A	HB	A	A	A	HB	A
MH DROP TYPE	V		V / W	V / V	X / V		
LINE NO.			40	41	42		

PROPERTY CONNECTION DEPTH	PROPERTY CONNECTION INVERT LEVEL	PROPERTY CONNECTION TYPE	LOT NO.
1.095	49.080	D	FUT 2001

LINE 6

MAINTENANCE HOLE / SHAFT NO.	1/6	HB1/6	2/6	3/6	4/6	5/6	6/6	7/6	HB2/6	8/6	9/6	10/6	HB3/6	11/6
MH / MS COVER TYPE	B		B	B	B	B	B	B		B	B	B		B
MH / MS TYPE	A	HB	A	A	A	A	A	A	HB	A	A	A	HB	A
MH DROP TYPE	V		V / V	V / V	V	V	V / V	V / V		V	V / V	V / V		
LINE NO.				43	44		45	46			47	48		

PROPERTY CONNECTION DEPTH	PROPERTY CONNECTION INVERT LEVEL	PROPERTY CONNECTION TYPE	LOT NO.
1.095	47.077	D	1330
1.095	47.245	D	1329
1.094	47.444	D	1328
1.095	47.453	D	1216
1.096	47.660	B	1215
1.095	48.528	D	1214
1.095	48.643	D	1213
1.095	48.763	D	1212
1.095	48.903	D	1211
1.095	49.064	D	1210
1.095	49.281	D	1209
1.095	49.140	B	1201
1.096	49.239	B	1200
1.096	49.366	B	1199
1.096	49.509	B	1198
1.096	49.652	B	1197
1.096	49.795	B	1196
1.095	49.950	D	1195
1.350	51.007	DE	1158
1.094	51.170	D	1157
1.095	51.692	D	1156
1.310	51.892	D	1155

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

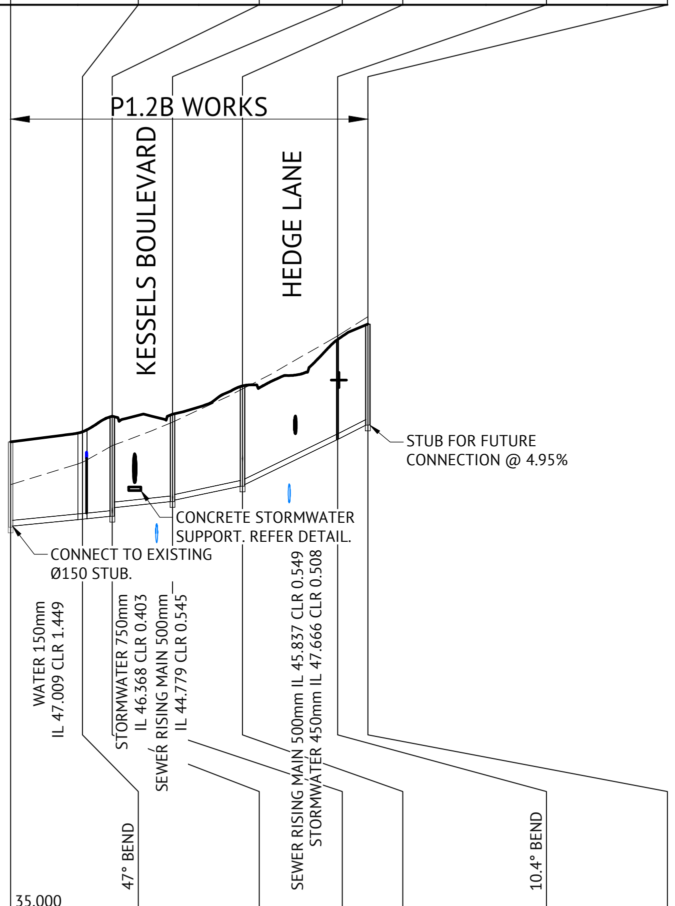
LID TYPES	
B	CLASS B NON TRAFFICABLE CONCRETE IN FILL
BD	CLASS B NON TRAFFICABLE BOLT DOWN
D	CLASS D TRAFFICABLE CONCRETE IN FILL

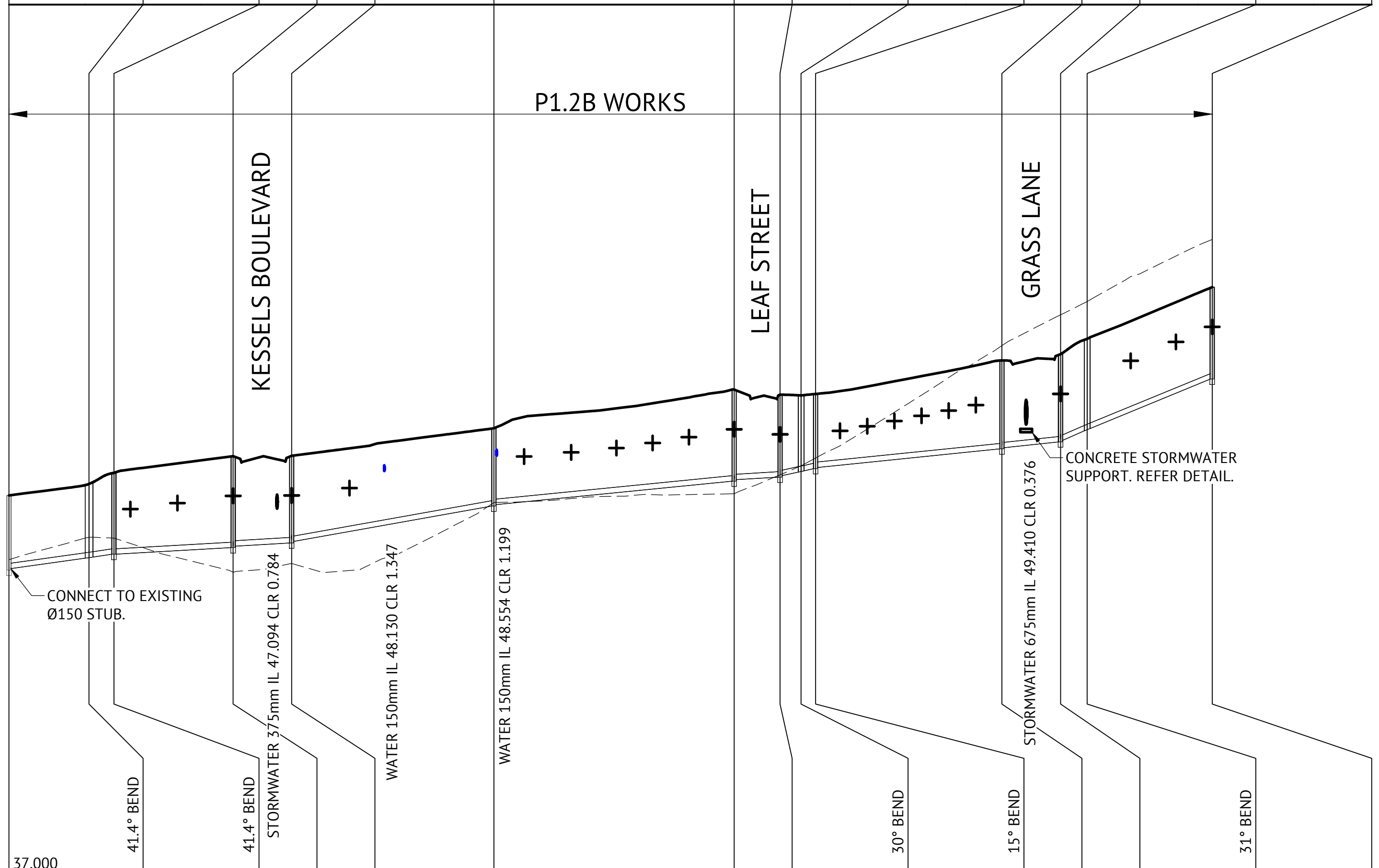
MAINTENANCE HOLE DROP TYPES	
V	FALL THROUGH MH
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
VORT	INTERNAL VORTEX DROP

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

* EMBEDMENT TYPE 3 WITH CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).

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





LINE 4

DATUM RL 35.000

PROPERTY DESCRIPTION: RR

PIPE SIZE (mm), CLASS: DN150 uPVC SN8

EMBEDMENT TYPE: TYPE 3

GRADE (1 IN X)	106	106	106	106	100	50	21	21	21	21
LENGTH	17.760	1.227	1.227	6.670	15.950	18.504	24.894	0.273	0.273	7.723

CHAINAGE (CH)	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)
0.000	2.254 / 2.224	45.190 / 45.220	47.444	46.313
TP 17.760	2.287	45.388	47.676	46.861
IP 18.987	2.310	45.400	47.710	46.905
TP 20.215	2.354	45.411	47.766	46.970
26.884	2.648 / 2.418	45.475 / 45.704	48.123	47.346
42.834	2.311 / 2.271	45.864 / 45.904	48.175	47.967
61.338	2.649 / 2.613	46.274 / 46.310	48.924	48.845
TP 86.232	2.635	47.495	50.130	50.230
IP 86.506	2.642	47.508	50.150	50.246
TP 86.779	2.650	47.521	50.171	50.263
94.502	2.670 / 2.650	47.889 / 47.909	50.559	50.753

LINE 6

DATUM RL 37.000

PROPERTY DESCRIPTION: RR

PIPE SIZE (mm), CLASS: DN150 uPVC SN8

EMBEDMENT TYPE: TYPE 3

GRADE (1 IN X)	LENGTH
73	21.019
73	1.085
73	1.085
73	5.776
180	32.930
180	16.151
57	55.824
103	66.341
180	12.675
50	5.008
50	0.785
50	0.785
50	3.221
100	51.452
100	16.179
25	6.522
25	0.811
25	0.811
25	33.720

CHAINAGE (CH)	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)
0.000	2.063 / 2.021	45.394 / 45.436	47.457	45.682
TP 21.019	2.016	45.724	47.740	46.279
IP 22.104	2.033	45.739	47.772	46.301
TP 23.188	2.068	45.753	47.821	46.303
28.964	2.242	45.833	48.075	46.278
61.895	2.523 / 2.483	46.015 / 46.055	48.539	45.333
78.046	2.404 / 2.364	46.145 / 46.185	48.549	45.581
133.870	2.147 / 2.107	47.162 / 47.202	49.310	47.261
200.212	2.526 / 2.486	47.850 / 47.890	50.376	47.501
212.886	2.275 / 2.235	47.960 / 48.000	50.235	48.024
TP 217.894	2.118	48.100	50.219	48.238
IP 218.679	2.101	48.116	50.217	48.274
TP 219.465	2.091	48.132	50.223	48.315
222.686	2.058 / 2.028	48.196 / 48.226	50.254	48.488
274.138	2.439 / 2.409	48.741 / 48.771	51.180	51.591
290.317	2.419 / 2.379	48.932 / 48.972	51.352	52.444
TP 296.839	2.511	49.236	51.747	52.765
IP 297.649	2.507	49.269	51.777	52.806
TP 298.460	2.515	49.302	51.817	52.853
332.181	2.535	50.667	53.202	54.521

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
23/07/18	B	NOTE ADDED AND UPDATE TO SOME HORIZONTAL BENDS DEFLECTION ANGLES FOR CLARITY	KH
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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

DESIGNED MICHAEL MAJZNER
CHECKED MICHAEL MAJZNER
PROJECT MANAGER JOSHUA STONE
PROJECT DIRECTOR JOSHUA STONE DATE 23/07/18

RPEQ KEITH HOWELLS RPEQ 7295 DATE 23/07/18

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 4

JOB CODE MIR001-02A
SHEET NUMBER C503
REV B

MAINTENANCE HOLE / SHAFT NO.

MAINTENANCE HOLE / SHAFT NO.	MH / MS COVER TYPE	MH / MS TYPE	MH DROP TYPE	LINE NO.
1/31	B	A	V	
HB1/31		HB		
HB2/31		HB		
2/31	B	A	V	
3/31	B	A	V	
HB3/31		HB		
HB4/31		HB	V	50
4/31	B	A	V	
HB5/31		HB	V	56
5/31	B	A	V	
6/31	B	A		
3/4	B	A	W V	4
HB1/40		HB		
1/40	B	A		
4/4	B	A	V V	4
HB1/41		HB		
HB2/41		HB		
1/41	B	A	V	

LOT NO.	PROPERTY CONNECTION DEPTH	PROPERTY CONNECTION INVERT LEVEL	PROPERTY CONNECTION TYPE
1308	1.095	48.169	D
1307	1.095	48.334	D
1306	1.095	48.436	D
1305	1.094	48.598	B
1304	1.096	48.792	B
1303	1.128	49.609	B
1302	1.445	50.859	B
1301	1.095	52.647	D
1300	1.095	53.365	D
1299	1.095	54.066	D
1298	1.095	54.821	D
1132	1.095	54.629	B
1131	1.095	54.806	B
FUT 1130	1.252	55.006	D
1232	1.095	47.267	D
1231	1.095	47.796	D
FUT 2003	1.095	48.453	D
FUT 2002	1.095	49.083	D
1225	1.096	46.916	B
1224	1.096	47.042	B

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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

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

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

* EMBEDMENT TYPE 3 WITH CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).

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

DATUM RL: LINE 31 39.000 / 43.000; LINE 40 35.000; LINE 41 35.000

PROPERTY DESCRIPTION: RR

PIPE SIZE (mm), CLASS: DN150 uPVC SN8

EMBEDMENT TYPE: TYPE 3

LINE 31

GRADE (1 IN X)	LENGTH
116	20.040
116	1.085
116	1.085
116	4.661
116	1.096
116	1.096
116	19.180
63	46.059
20	19.195
20	0.436
20	0.436
20	12.628
20	0.268
20	0.268
20	9.074
20	10.486
20	0.145
20	0.145
20	57.326
100	56.750

CHAINAGE (CH)	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)
0.000	2.105 / 1.950	46.429 / 46.584	48.534	46.268
TP 20.040	1.988	46.757	48.745	46.202
IP 21.125	2.004	46.766	48.771	46.218
TP 22.210	2.039	46.776	48.814	46.252
TP 26.871	2.272	46.816	49.088	46.422
IP 27.967	2.313	46.825	49.138	46.470
TP 29.063	2.350	46.835	49.185	46.527
48.243	2.448 / 2.418	47.000 / 47.030	49.448	47.698
94.302	2.434 / 2.404	47.759 / 47.789	50.193	50.709
TP 113.497	2.173	48.739	50.912	51.830
IP 113.933	2.158	48.761	50.919	51.854
TP 114.369	2.143	48.782	50.925	51.877
TP 126.997	2.259	49.407	51.666	52.603
IP 127.265	2.262	49.421	51.683	52.617
TP 127.533	2.267	49.434	51.701	52.631
136.607	2.421 / 2.391	49.883 / 49.913	52.304	53.101
TP 147.094	2.575	50.432	53.007	53.608
IP 147.239	2.577	50.439	53.016	53.614
TP 147.384	2.579	50.447	53.025	53.620
204.710	2.939 / 2.899	53.284 / 53.324	56.224	56.349
261.460	2.366 / 2.346	53.892 / 53.912	56.258	58.448

LINE 40

GRADE (1 IN X)	LENGTH
22	45.609
22	0.265
22	0.265
22	6.121

CHAINAGE (CH)	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)
0.000	2.648 / 2.568	45.475 / 45.555	48.123	47.346
TP 45.609	2.521	47.607	50.128	49.739
IP 45.874	2.519	47.619	50.138	49.755
TP 46.139	2.517	47.631	50.148	49.771
52.261	2.514 / 2.494	47.906 / 47.926	50.420	50.149

LINE 41

GRADE (1 IN X)	LENGTH
100	22.482
100	0.072
100	0.072
100	11.231
100	1.085
100	1.085
100	6.607

CHAINAGE (CH)	DEPTH OF INVERT BELOW FSL	INVERT LEVEL (IL)	FINISHED SURFACE LEVEL (FSL)	EXISTING SURFACE LEVEL (ESL)
0.000	2.311 / 2.271	45.864 / 45.904	48.175	47.967
TP 22.482	1.921	46.129	48.050	46.975
IP 22.554	1.921	46.130	48.051	46.972
TP 22.626	1.921	46.131	48.052	46.969
TP 33.857	1.952	46.243	48.195	46.540
IP 34.941	1.946	46.254	48.200	46.508
TP 36.026	1.946	46.265	48.211	46.493
42.633	1.820 / 1.790	46.331 / 46.361	48.151	46.449

LINE 31 40

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
23/07/18	B	NOTE ADDED AND UPDATE TO SOME HORIZONTAL BENDS DEFLECTION ANGLES FOR CLARITY	KH
02/07/18	A	ORIGINAL ISSUE	KH

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DESIGNED MICHAEL MAJZNER
CHECKED MICHAEL MAJZNER
PROJECT MANAGER JOSHUA STONE
PROJECT DIRECTOR [illegible] JOSHUA STONE DATE 23/07/18

RPEQ K. Howells KEITH HOWELLS RPEQ 7295 DATE 23/07/18

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

CLIENT **MIRVAC**
PROJECT **EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 4**

JOB CODE MIR001-02A
SHEET NUMBER C504 REV B

MAINTENANCE HOLE / SHAFT NO.	1/41	HB3/41	2/41	5/4	HB1/42	1/42	3/6	E/43	4/6	HB1/44	HB2/44	1/44	HB3/44	2/44	6/6	E/45	7/6	HB1/46	1/46	9/6	HB1/47	1/47
MH / MS COVER TYPE	B		B	B		B	B		B			B		B	B		B		B	B		B
MH / MS TYPE	A	HB	A	A	HB	A	A	END	A	HB	HB	A	HB	A	A	END	A	HB	A	A	HB	A
MH DROP TYPE	V			V X			V V		V V			V			V V		V V			V V		
LINE NO.				4			6		6						6		6			6		
PROPERTY CONNECTION DEPTH		1.094 1.095		1.096			1.096			1.095 1.095 1.095					1.292		1.095 1.095			1.095 1.252	
PROPERTY CONNECTION INVERT LEVEL		47.468 47.604		48.367			47.623			47.492 47.666 47.778					49.095		49.548 49.532			50.636 50.716	
PROPERTY CONNECTION TYPE		B B		B			D			B B B					B		B B			B B		
LOT NO.		1223 1222		FUT 1226			1327			1217 1218 1219					1208		FUT 1202 FUT 1203			FUT 1194 FUT 1193		

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)

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

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

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

* EMBEDMENT TYPE 3 WITH CRUSHED ROCK NOMINAL 5-7mm (SINGLE SIZED).

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

P1.2B WORKS

STUB FOR FUTURE CONNECTION @ 3.00%

STUB FOR FUTURE CONNECTION @ 4.88%

STUB FOR FUTURE CONNECTION @ 0.556%

WATER 150mm IL 48.129 CLR 1.034
WATER 150mm IL 48.369 CLR 1.160
WATER 150mm IL 47.794 CLR 1.402
WATER 150mm IL 47.418 CLR 0.989
WATER 150mm IL 49.598 CLR 1.473
WATER 150mm IL 49.579 CLR 1.352
WATER 150mm IL 50.484 CLR 1.365

33.2° BEND
47.2° BEND
2.4° BEND
48.6° BEND
33.2° BEND
33.2° BEND
45.0° BEND

B

DATUM RL	35.000			35.000			34.000		35.000						36.000		36.000			38.000			
PROPERTY DESCRIPTION	RR			RR			RR		RR						RR		RR			RR			
PIPE SIZE (mm), CLASS	DN150 uPVC SN8			DN150 uPVC SN8			DN150 uPVC SN8		DN150 uPVC SN8						DN150 uPVC SN8		DN150 uPVC SN8			DN150 uPVC SN8			
GRADE (1 IN X)	100	100	100	50	50	50	100		180	180	180	180	180	180	100		72	72	72	45	45	45	45
LENGTH	51.786	0.869	0.869	6.367	1.236	1.236	12.832		3.569	0.848	0.848	4.208	1.271	1.271	12.500		26.126	0.869	0.869	5.264	1.178	1.178	37.156
EMBEDMENT TYPE	TYPE 3			TYPE 3			TYPE 3		TYPE 3						TYPE 3		TYPE 3			TYPE 3			
DEPTH OF INVERT BELOW FSL	1.820	1.790	1.930	1.940	1.956	2.032	2.012	2.649	1.994	2.125	2.135	2.162	2.255	2.225	2.523	2.493	2.545	2.404	2.324	2.215	2.175	2.137	1.913	1.868	1.850	2.041	2.011	2.222	2.229	2.229	2.326	2.306	2.526	2.496	2.382	2.275	2.196	2.252	2.246	2.232	2.098	2.439	2.359	2.295	2.269	2.258	2.161
INVERT LEVEL (IL)	46.331	46.361	46.879	46.888	46.896	47.022	47.042	46.274	46.929	47.056	47.081	47.106	47.207	47.237	46.015	46.045	46.174	46.145	46.225	46.245	46.250	46.254	46.278	46.285	46.292	46.441	46.471	46.608	46.613	46.618	46.706	46.726	47.850	47.880	48.005	47.960	48.040	48.400	48.412	48.424	48.529	48.741	48.821	48.937	48.963	48.989	49.806
FINISHED SURFACE LEVEL (FSL)	48.151	48.809	48.828	48.853	49.054			48.924	49.182	49.216	49.268	49.462			48.539		48.718	48.549	48.460	48.425	48.392	48.191	48.153	48.142	48.482	48.830	48.842	48.847	49.032					50.376	50.387		50.255		50.652	50.659	50.657	50.627	51.180		51.232	51.232	51.246	51.968	
EXISTING SURFACE LEVEL (ESL)	46.449	47.753	47.781	47.818	48.491			48.845	49.242	49.314	49.367	49.537			45.333		45.133	45.581	45.716	45.749	45.784	45.972	46.027	46.069	46.705	47.309	47.337	47.372	48.208					47.501	47.427		48.024		47.837	47.833	47.817	47.637	51.591		51.731	51.745	51.724	49.974	
CHAINAGE (CH)	42.633	TP 94.419	IP 95.289	TP 96.158	108.696			0.000	TP 6.367	IP 7.602	TP 8.838	13.883			0.000		12.832	0.000	TP 3.569	IP 4.417	TP 5.264	TP 9.472	IP 10.744	TP 12.015	38.768	TP 63.487	IP 64.356	TP 65.225	81.177					0.000	12.500		0.000		TP 26.126	IP 26.995	TP 27.864	35.427	0.000		TP 5.264	IP 6.442	TP 7.621	44.777	
LINE	41			42			43		44						45		46			47			

11/01/19 FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
23/07/18	B	NOTE ADDED AND UPDATE TO SOME HORIZONTAL BENDS DEFLECTION ANGLES FOR CLARITY	KH
02/07/18	A	ORIGINAL ISSUE	KH

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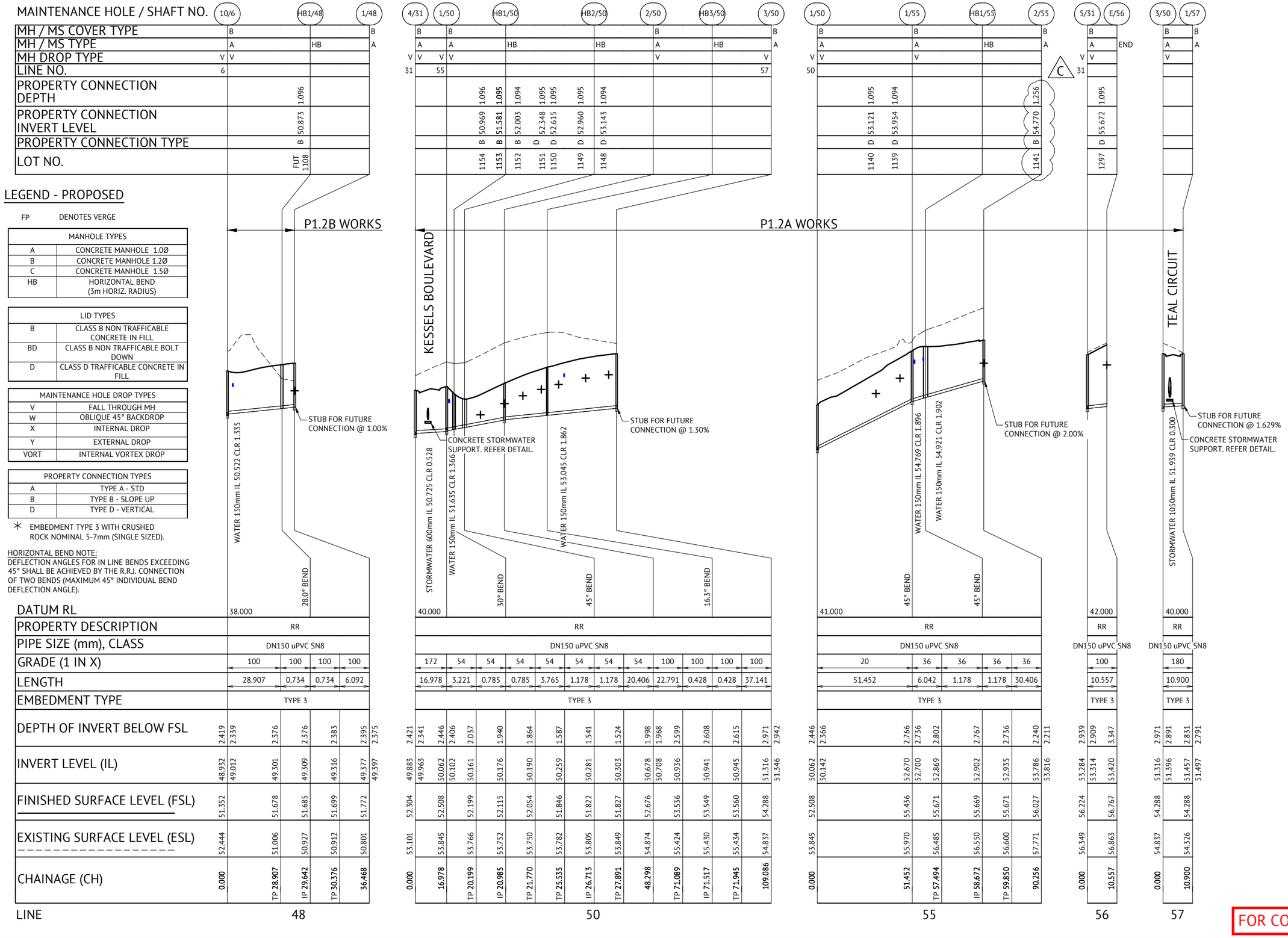
DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	23/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE	23/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION LONG SECTIONS - SHEET 3 OF 4

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C505	B



11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
10/01/19	C	ADDED HOUSE CONNECTION 1141	KH
23/07/18	B	NOTE ADDED AND UPDATE TO SOME HORIZONTAL BENDS DEFLECTION ANGLES FOR CLARITY	KH
02/07/18	A	ORIGINAL ISSUE	KH

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DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	10/01/19
RPEQ	KEITH HOWELLS RPEQ 7295	DATE	10/01/19

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION LONG SECTIONS - SHEET 4 OF 4

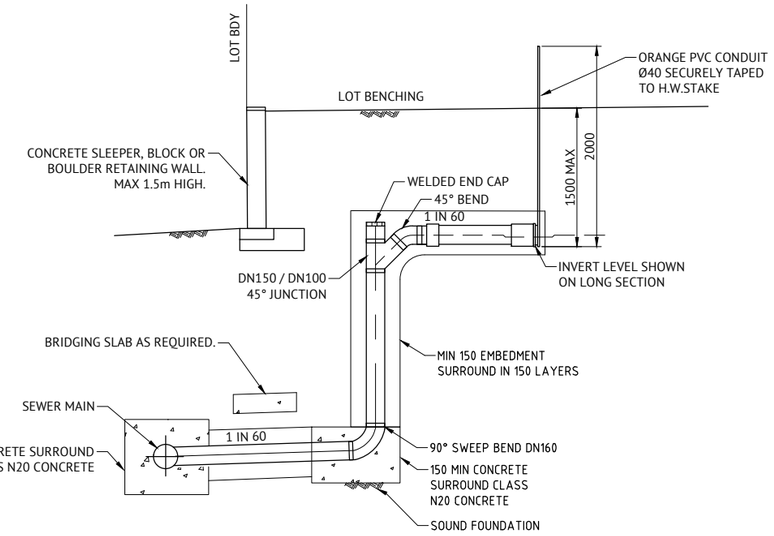
JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C506	C

LIVE SEWER WORKS

No.	DESCRIPTION	DIA. SEWER	MH NO.	MH TYPE	COVER TYPE	LOT NO.	F.S.L.	E.S.L.	I.L.	DEPTH
1(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 1/31, CONSTRUCTOR TO LAY NEW LINE 31. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/31	A	B	1308	48.534	46.268	46.584	1.950
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 31 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

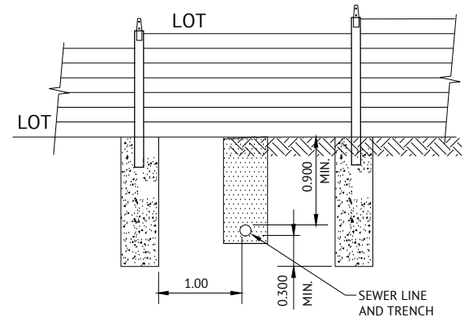
LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS.
AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

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



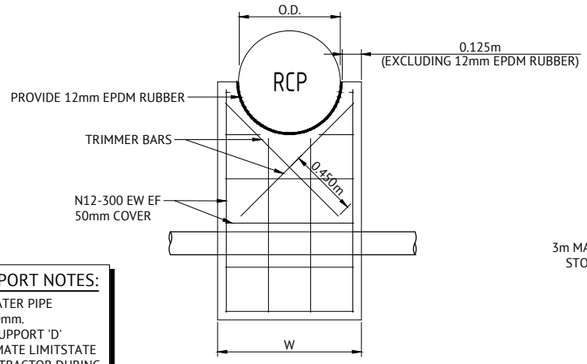
EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)

NTS

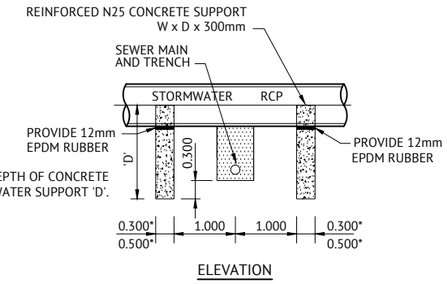


SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL

NTS



SECTION



ELEVATION

GENERAL CONCRETE STORMWATER SUPPORT NOTES:

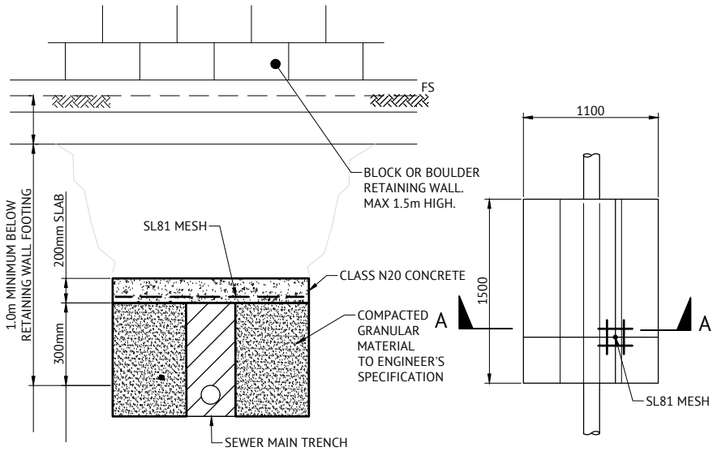
1. SUPPORTS TO BE INSTALLED WHERE STORMWATER PIPE DIAMETER IS EQUAL TO OR GREATER THAN 600mm.
2. 3m MAX DEPTH OF CONCRETE STORMWATER SUPPORT 'D'
3. DESIGN BASED ON ACHIEVING 100kPa OF ULTIMATE LIMITSTATE BEARING CAPACITY. TO BE CONFIRMED BY CONTRACTOR DURING CONSTRUCTION.
4. 0.300m* WIDTH UP TO 1050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

CONCRETE STORMWATER SUPPORT TYPICAL DETAIL

SCALE 1:20

CONCRETE STORMWATER SUPPORT IN ROCK NOTES

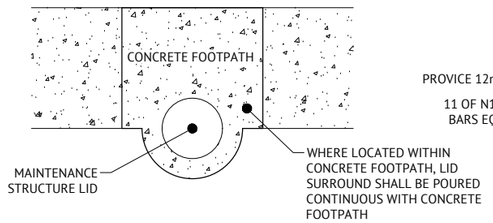
WHERE BRIDGING STRUCTURE IS LOCATED IN ROCK SUBGRADE, CONTRACTOR SHALL PROVIDE GEOTECHNICAL ADVICE TO SUPERINTENDENT ADVISING IF SUITABLE SUBGRADE BEARING CAPACITY CAN BE ACHIEVED TO FACILITATE THIS SUPPORT TYPE.



SECTION A-A PLAN

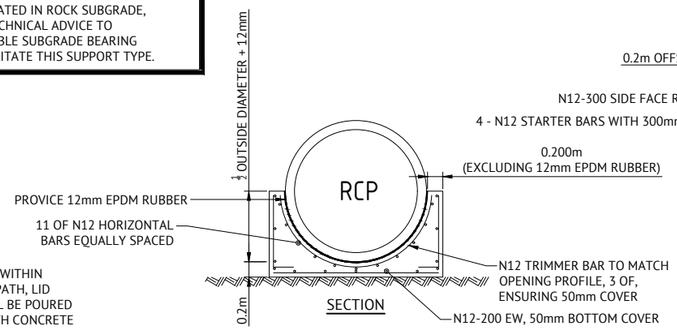
SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

NTS

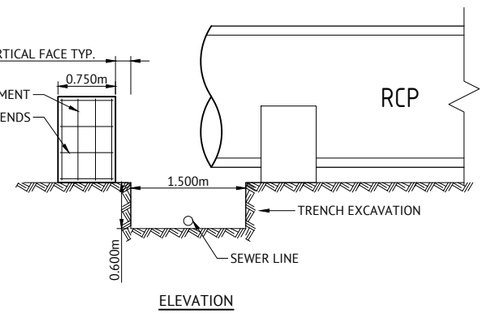


TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL

NTS



SECTION



ELEVATION

CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40

11/01/19

FOR CONSTRUCTION

02/07/18	A	ORIGINAL ISSUE	KH
DATE	REV	DESCRIPTION	RPEQ

REVISIONS

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DESIGNED	MICHAEL MAZNER	RPEQ	DATE
CHECKED	MICHAEL MAZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18	AS SHOWN	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION NOTES AND DETAILS

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C507	A

EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

WATER RETICULATION

LOCALITY PLAN

0 100 200 300m

SCALE 1:5000 (A1)

REAL PROPERTY DESCRIPTION

LOT 205 & 434 on RP845844
LOT 9 on S312355

SHEET LIST TABLE

SHEET NUMBER	SHEET TITLE
C600	WATER RETICULATION LOCALITY PLAN & NOTES
C601	WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2
C602	WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER OF MAIN FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH SEQ-SP's ACCEPTED PRODUCTS AND MATERIALS LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY SEQ-SP's
7. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS. WHERE POSSIBLE
8. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO. SEQ-WAT-1410-1
9. CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.
10. ALL WATER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH & SAFETY FOR INFORMATION. PHONE: 1300 362 128.
11. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
12. CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2, PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND BCC STANDARDS.
13. INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-2.
14. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
15. INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-2 AND SEQ-WAT-1409-1
16. INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-SEW-1300-1 & 2.

VEGETATION PROTECTION

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

SOIL

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

CREEK CROSSINGS

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

REHABILITATION

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

CONSTRUCTION REQUIREMENTS

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

INDEMNITY - EXISTING SERVICES

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

RPEQ CERTIFICATION

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

INSPECTION REQUIREMENTS

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

A MINIMUM 48 HOURS NOTICE IS REQUIRED.

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

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

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

SEQ CODE STD DRAWING SCHEDULE

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

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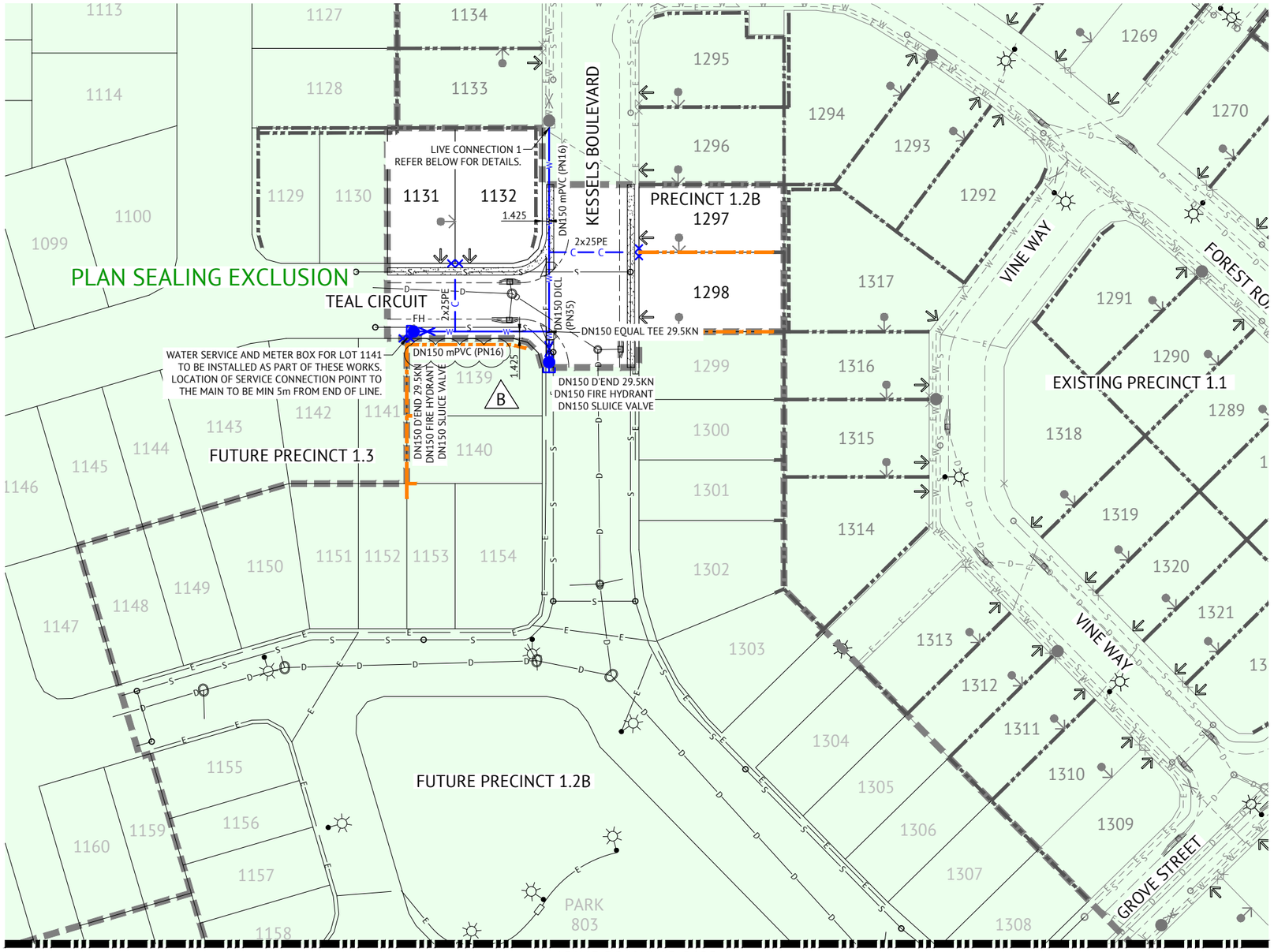
FOR CONSTRUCTION

PROJECT DIRECTOR	DATE	RPEQ	DATE	JOB CODE	SHEET NUMBER	REVISION
JOSHUA STONE	02/07/18	KEITH HOWELLS RPEQ 7295	02/07/18	MIR001-02A	C600	A



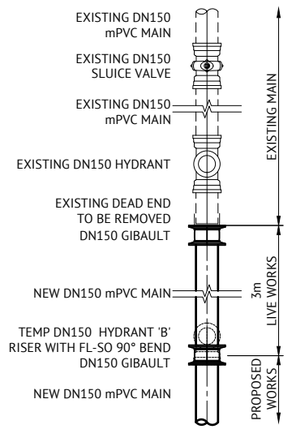
JOINS DRAWING C602

LEGEND - PROPOSED

- POTABLE WATER MAIN
- DN32 PE — POTABLE WATER RETICULATION CONDUIT
- WATER SERVICE & WATER METER BOX POINT. METER BY OTHERS
- SLUICE VALVE
- FH — FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION — TRUNCATIONS 5 DEGREES OR LESS
- 38 — LOT NUMBER
- PROPOSED RETAINING WALL
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICITY
- FUTURE DRIVEWAY LOCATION
- ZERO LOT LINE
- STAGE BOUNDARY

LEGEND - EXISTING

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



CONNECTION 1

LIVE CONNECTION DETAIL

SCALE 1:25

11/01/19

FOR CONSTRUCTION

LIVE CONNECTION NOTES:

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

INDEMNITY - EXISTING SERVICES

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

NOTES

1. CONTRACTOR TO ENSURE ALL WATER FITTINGS ARE CONSTRUCTED CLEAR OF ALL PROPOSED DRIVEWAYS
2. CONTRACTOR TO LOCALLY DIVERT WATERMAIN AROUND TREE PITS.
3. FOR WATER RETICULATION NOTES REFER DRAWING C600.

DATE	REV	DESCRIPTION	RPEQ
10/01/19	B	CHANGED WATER MAIN SIZE	KH
02/07/18	A	ORIGINAL ISSUE	KH

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		RPEQ	DATE
DESIGNED	MICHAEL MAJZNER		
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	10/01/19 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE		10/01/19

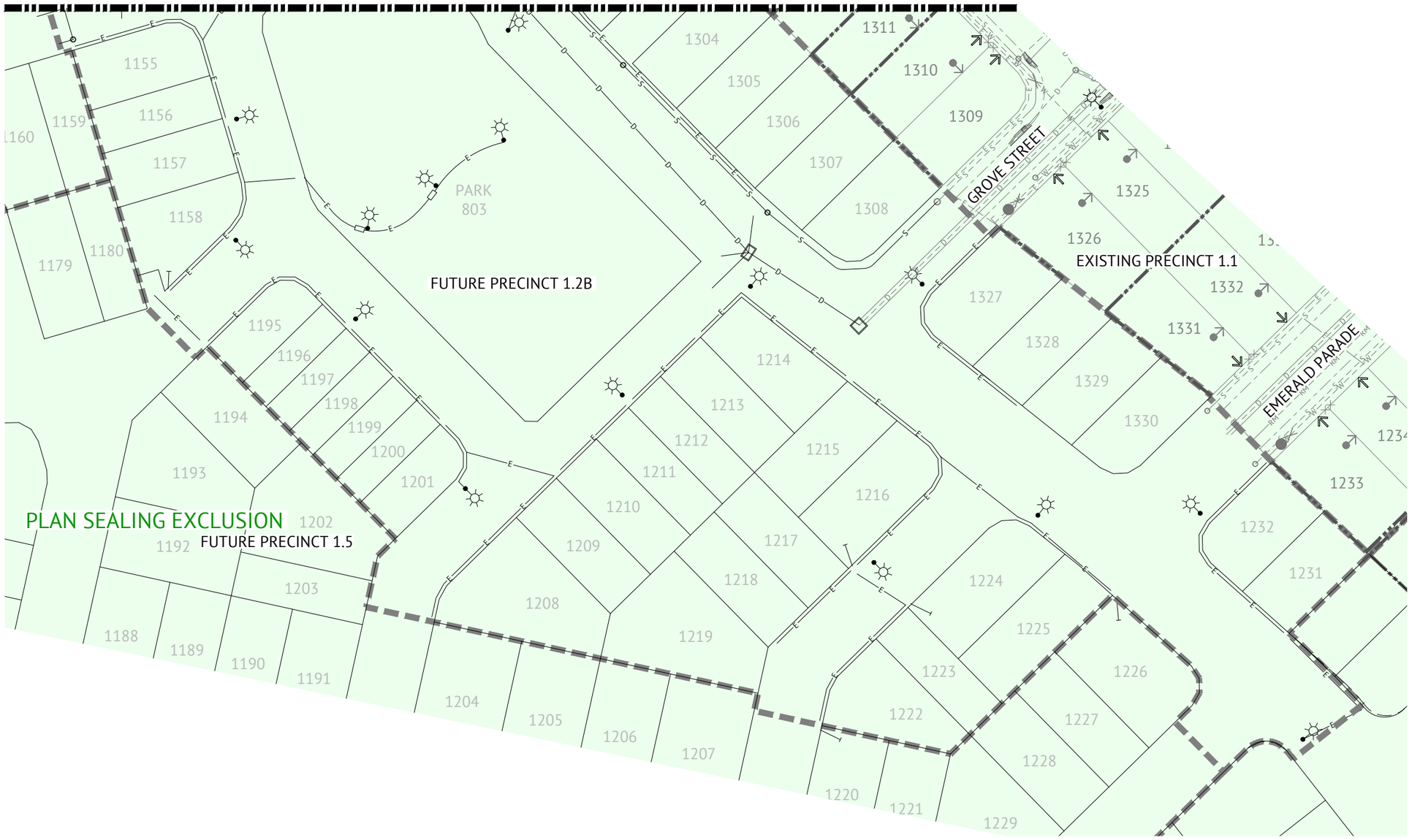
SCALE 0 10 20 30m

SCALE 1:500 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C601	B

JOINS DRAWING C601



LEGEND - PROPOSED

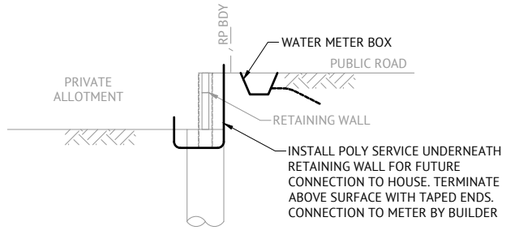
- POTABLE WATER MAIN
- DN32 PE — POTABLE WATER RETICULATION CONDUIT
- WATER SERVICE & WATER METER BOX POINT. METER BY OTHERS
- SLUICE VALVE
- FH — FIRE HYDRANT
- TEST POINT
- DEAD END
- DEFLECTION — TRUNCATIONS 5 DEGREES OR LESS
- 38 — LOT NUMBER
- PROPOSED RETAINING WALL
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICITY
- FUTURE DRIVEWAY LOCATION
- ZERO LOT LINE
- STAGE BOUNDARY

LEGEND - EXISTING

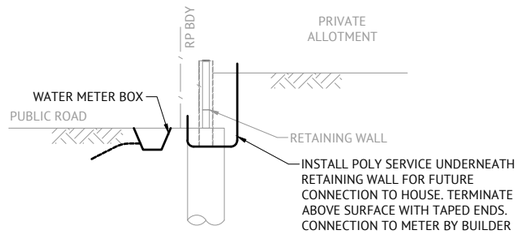
- WATER
- SLUICE VALVE
- FH — FIRE HYDRANT
- TEST POINT
- SCOUR BRANCH
- DEAD END
- WATER METER
- STORMWATER
- GRAVITY SEWER
- SEWER RISING MAIN
- ELECTRICAL
- TELSTRA
- GAS

11/01/19

FOR CONSTRUCTION



ALLOTMENT BELOW ROAD



ALLOTMENT ABOVE ROAD

WATER SERVICE PROVISION UNDER RETAINING WALLS

N.T.S.

NOTES

1. CONTRACTOR TO ENSURE ALL WATER FITTINGS ARE CONSTRUCTED CLEAR OF ALL PROPOSED DRIVEWAYS
2. CONTRACTOR TO LOCALLY DIVERT WATERMAIN AROUND TREE PITS.
3. FOR WATER RETICULATION NOTES REFER DRAWING C600.

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DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

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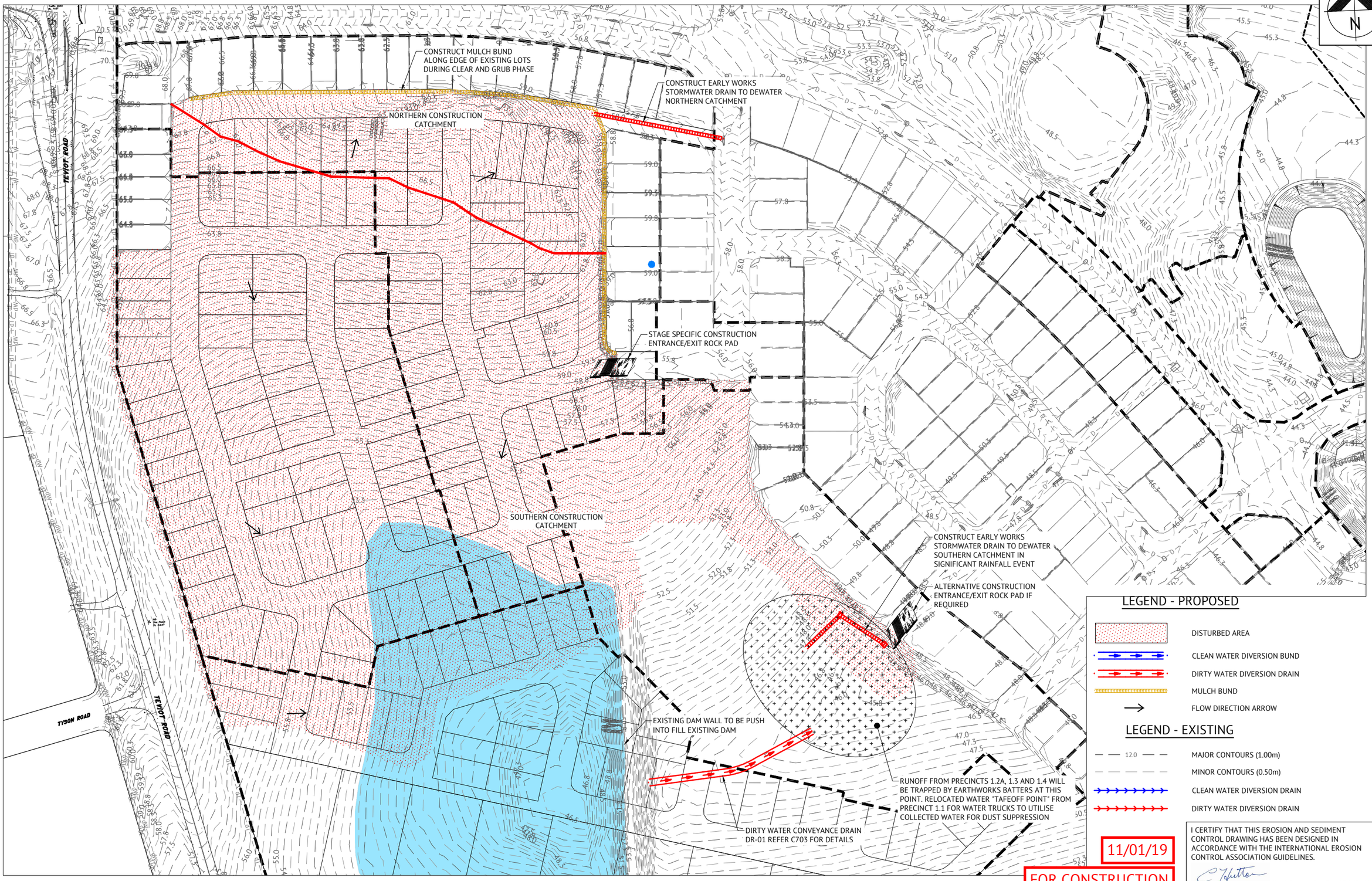
CHECKED	MICHAEL MAIZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

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

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C602	A



LEGEND - PROPOSED

- DISTURBED AREA
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION DRAIN
- MULCH BUND
- FLOW DIRECTION ARROW

LEGEND - EXISTING

- 12.0 MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN

11/01/19

FOR CONSTRUCTION

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

CHRIS HUTTON CPESC NO. 6241

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	

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PROJECT MANAGER	JOSHUA STONE
PROJECT DIRECTOR	JOSHUA STONE

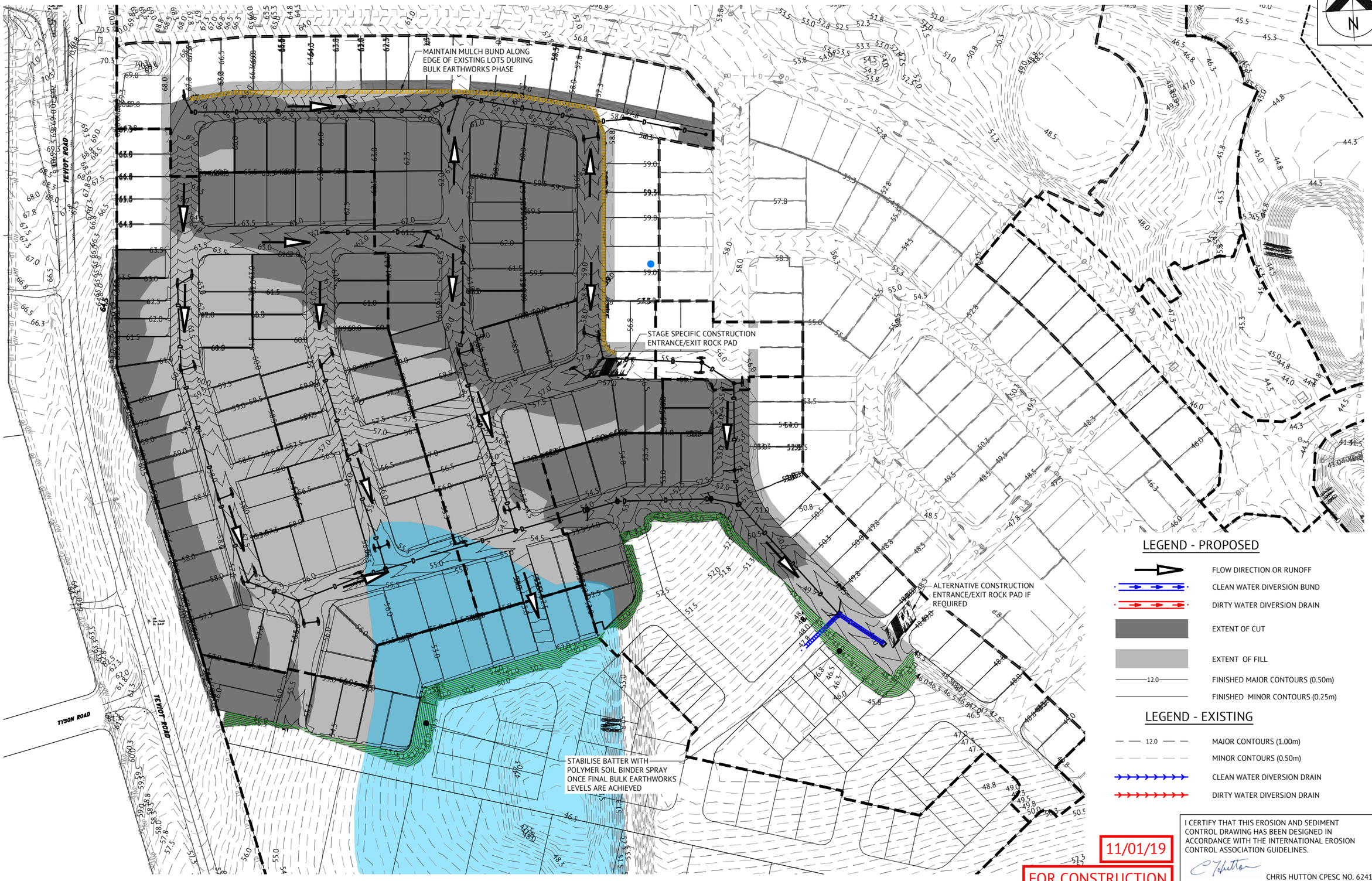
RPEQ KEITH HOWELLS RPEQ 7295 DATE

SCALE 0 20 40 60m

SCALE 1:1000 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C700	A



LEGEND - PROPOSED

- FLOW DIRECTION OR RUNOFF
- CLEAN WATER DIVERSION BUND
- DIRTY WATER DIVERSION DRAIN
- EXTENT OF CUT
- EXTENT OF FILL
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- 12.0 — MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)
- CLEAN WATER DIVERSION DRAIN
- DIRTY WATER DIVERSION DRAIN

11/01/19

FOR CONSTRUCTION

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

CHRIS HUTTON CPESC NO. 6241

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	

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CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE	0 20 40 60m
			SCALE 1:1000 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS PHASE

JOB CODE	
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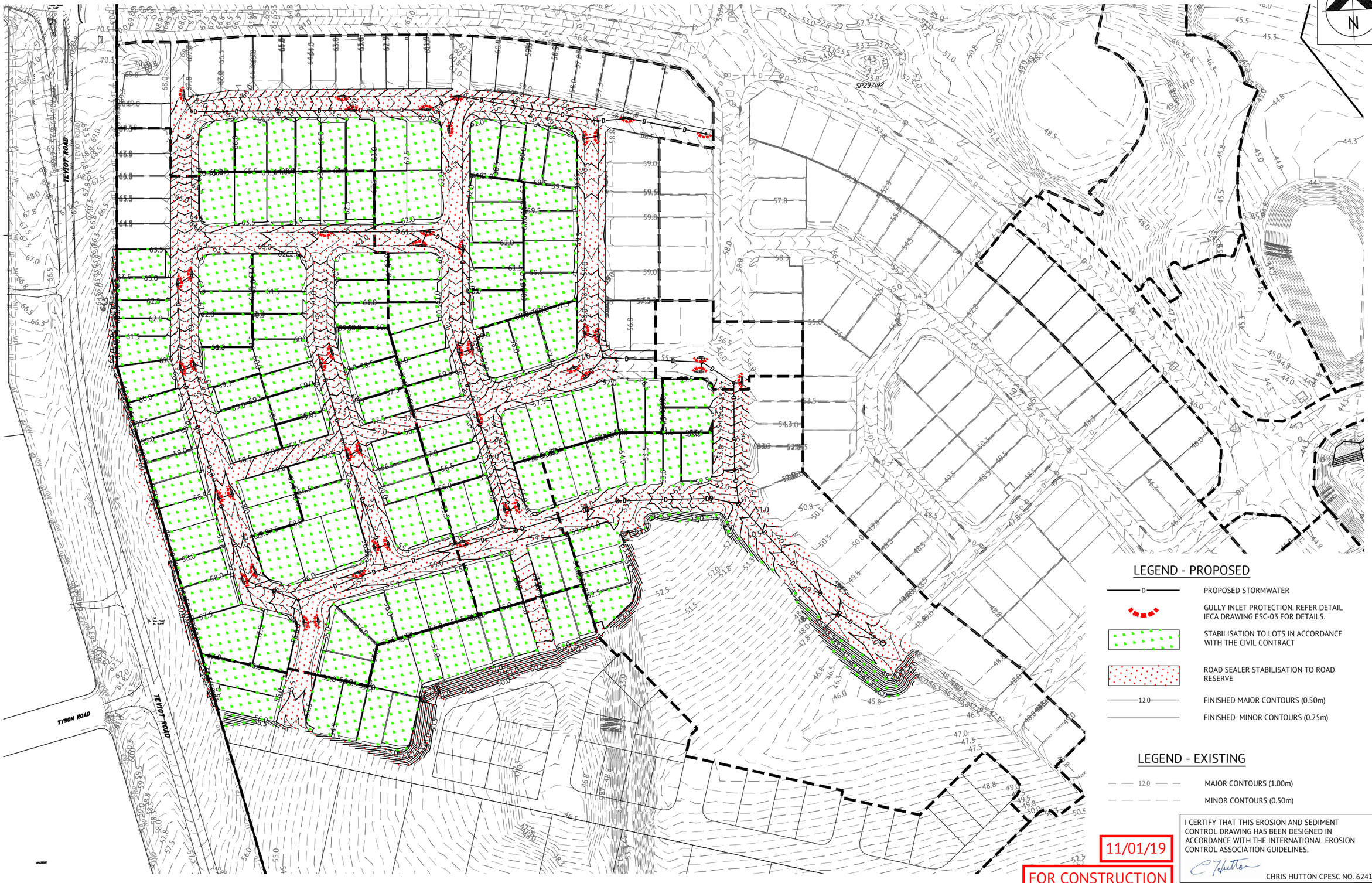
SHEET NUMBER	REV
C701	A



LEGEND - PROPOSED

- D — PROPOSED STORMWATER
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- STABILISATION TO LOTS IN ACCORDANCE WITH THE CIVIL CONTRACT
- ROAD SEALER STABILISATION TO ROAD RESERVE
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

- 12.0 — MAJOR CONTOURS (1.00m)
- MINOR CONTOURS (0.50m)

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

CHRIS HUTTON CPESC NO. 6241

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

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CHECKED	MICHAEL MAIZNER		
PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

RPEQ KEITH HOWELLS RPEQ 7295 — DATE 02/07/18

SCALE 0 20 40 60m — SCALE 1:1000 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C702	A

EROSION & SEDIMENT CONTROL NOTES

1. LOCATION & LEVELS OF ALL EXISTING SERVICES TO BE CONFIRMED ON SITE BY CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
2. REFER EARTHWORKS DRAWINGS FOR ADDITIONAL NOTES.
3. ALL TRENCHES, FOOTPATH EXCAVATIONS & STOCKPILES TO BE PROTECTED BY TEMPORARY SEDIMENT FENCES UNTIL 80% GRASS COVERAGE IS ACHIEVED TO DISTURBED AREAS.
4. EVERY PRECAUTION IS TO BE TAKEN TO PREVENT THE TRANSPORT OF SILT INTO THE NEWLY LAID STORMWATER PIPES THAT ARE CONNECTED TO THE DOWNSTREAM PIPE SYSTEMS, AND ANY EXISTING OPEN CHANNELS.
5. THESE NOTES SHALL BE READ IN CONJUNCTION WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
6. THE EROSION AND SEDIMENT CONTROL WORKS SHALL COMPLY WITH THE REQUIREMENTS OF THE LOCAL AUTHORITIES EROSION AND SEDIMENT CONTROL STANDARDS.
7. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO:

- ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AND AT NON EROSIVE FLOW VELOCITIES;
- MINIMISE SOIL EROSION FROM WATER AND WIND;
- MINIMISE ADVERSE EFFECTS OF SEDIMENT RUN-OFF;
- MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGES FROM THE SITE (E.G. THE EFFECTS OF SEDIMENTATION ON THE ENVIRONMENTAL VALUES OF RECEIVING WATERS); AND
- ENSURE THAT THE VALUE AND USE OF RESIDENTIAL PROPERTIES ADJACENT TO THE DEVELOPMENT (SUCH AS DRAINAGE AND ROADS) ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.

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

- AT LEAST DAILY (WHEN WORK IS OCCURRING ON SITE).
- AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON SITE).
- WITHIN 24 HOURS OF EXPECTED RAINFALL.
- WITHIN 18 HOURS OF RAINFALL OCCURRING.

6. MAINTENANCE OF ESC MEASURES SHALL OCCUR TO ENSURE THEY ARE OPERATING EFFICIENTLY AND IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

ESC MEASURES	MAINTENANCE TRIGGER	TIME FRAME FOR UNDERTAKING MAINTENANCE
SEDIMENT BASINS	WHEN SETTLED SEDIMENT VOLUME EXCEEDS THE VOLUME OF THE SEDIMENT SETTLEMENT ZONE	WITHIN 4 DAYS OF INSPECTION
OTHER ESC MEASURES	WHEN SETTLED SEDIMENT VOLUME EXCEEDS 25% OF THE CAPACITY OF THE ESC MEASURE	BY THE END OF THE DAY

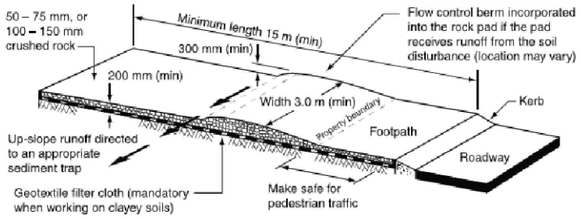
7. INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
8. STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
9. STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
10. ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS,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

CATCH DRAIN DETAILS

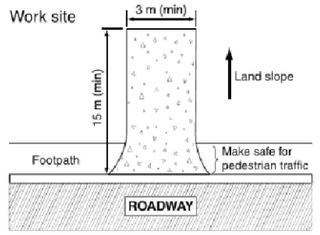
Drain ID	Drain Type	Slope	Lining	Base Width (m)	Top Width (m)	Depth incl. freeboard (m)	Side Slope Length	Wetted Perimeter (m^2)	Velocity (m/s)
DR-01	Type B	2.0%	Geofabric	4	5.2	0.3	2	5.34	2.0

NOTE:

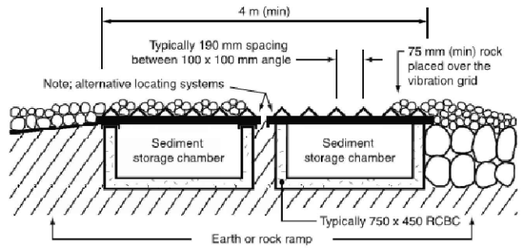
COIR LOG CHECK DAMS TO BE INSTALLED AT 20m CRS



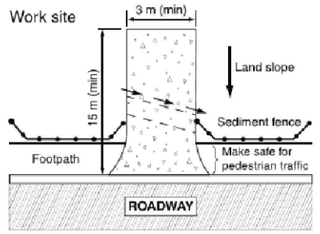
(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)



(b) Rock pad sloping away from road



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



(d) Rock pad sloping towards the road

CONSTRUCTION ENTRANCE DETAIL

MULCH BUND DETAIL

MATERIALS

COMPOSTS MUST COMPLY WITH THE REQUIREMENTS OF AS4454.

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

(ii) MAXIMUM OF 1% OF INERT MATERIAL.

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

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

INSTALLATION

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

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

(I) TOTALLY WITHIN THE PROPERTY BOUNDARIES;

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

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

(iv) AWAY FROM AREAS OF CONCENTRATED FLOW.

3. ENSURE THE BERM IS INSTALLED IN A MANNER THAT AVOIDS THE CONCENTRATION OF FLOW ALONG THE BERM, OR THE UNDESIRABLE DISCHARGE OF WATER AROUND THE ENDS OF THE BERM.

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

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

6. ENSURE 100% CONTACT WITH THE SOIL SURFACE.

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

MAINTENANCE

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

2. REPAIR OR REPLACE ANY DAMAGED SECTIONS.

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

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

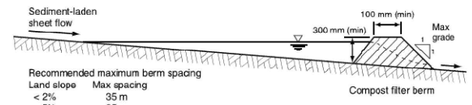
5. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

REMOVAL (IF REQUIRED)

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

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

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



Recommended maximum berm spacing

Land slope	Max spacing
< 2%	35 m
5%	25 m
10%	20 m
20%	12.5 m
25%	10 m

Figure 1 - Typical profile of a compost filter berm

11/01/19

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

REVISIONS

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DESIGNED	MICHAEL MAJZNER	RPEQ	DATE
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18 RPEQ 7295
PROJECT MANAGER	JOSHUA STONE	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION & SEDIMENT CONTROL SECTIONS & DETAILS - SHEET 1

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C703	A

CORRECTIVE AND PREVENTATIVE ACTION

An environmental incident with respect to the ESCP is defined as any occurrence where sediment is released from the site, whether controlled or uncontrolled, or where storm water is released (controlled) from site which does not meet the water quality requirements.

All incidents and non-conformances are to be reported, investigated and corrected in accordance with the ESCP to ensure effective soil and water quality management practices at all times.

Best practice site management requires all ESC measures to be inspected by the Contractors nominated representative at least daily when rain is occurring, within 24 hours prior to expected rainfall, and within 18 hours of a rainfall event of sufficient intensity and duration to cause onsite runoff (IECA, 2008). Such inspections must check:

- **Daily site inspections** (during periods of runoff producing rainfall)
  - All drainage, erosion and sediment control measures
  - Occurrences of excessive sediment deposition (whether on-site or off-site)
  - All site discharge points (including dewatering activities as appropriate)

- **Weekly site inspections** (even if work is not occurring on-site)
  - All drainage, erosion and sediment control measures
  - Occurrences of excessive sediment deposition (whether on-site or off-site)
  - Occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements
  - Litter and waste receptors
  - Oil, fuel and chemical storage facilities

- **Prior to anticipated runoff producing rainfall**
  - All drainage, erosion and sediment control measures
  - All temporary flow diversion and drainage works

- **Following runoff producing rainfall**
  - All drainage, erosion and sediment control measures
  - Occurrences of excessive sediment deposition (whether on-site or off-site)
  - Occurrences of construction materials, litter or sediment placed, deposited, washed or blown from the site, including deposition by vehicular movements

ROLLS AND RESPONSIBILITIES

Role	Responsibility
Project Manager	• Overall responsibility of ESC implementation • Notify the Environmental Manager immediately of any non-compliance with ESCP • Ensure the prompt implementation of measures to mitigate erosion and sediment generation
Site Supervisor/Foremen	• Monitor daily rainfall • Notify Environmental Advisor/Consultant when runoff generating rainfall occurs in the previous 24 hours • Maintain current records of rainfall, storage volumes, water quality, treatment practices, discharge volumes (as appropriate) • Installation and maintenance of ESC
Environmental Manager	• Provide design information as required • Conduct in-situ monitoring (as required) • Collect and submit samples to laboratory (as required) • Collate results and prepare reports (as required) • Conduct site inspections and audits (as required) • Inspect ESC installation and maintenance • Inspect offsite impacts and management • Provide advice regarding ESC site improvement (as required)
All Personnel	• Report any damage to ESC devices and any potential or actual environmental harm in line with Duty to Notify under the requirements of the Environmental Protection Act 1994

11/01/19

FOR CONSTRUCTION

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

CHRIS HUTTON CPESC NO. 6241

DATE	REV	DESCRIPTION	RPEQ
02/07/18	A	ORIGINAL ISSUE	KH

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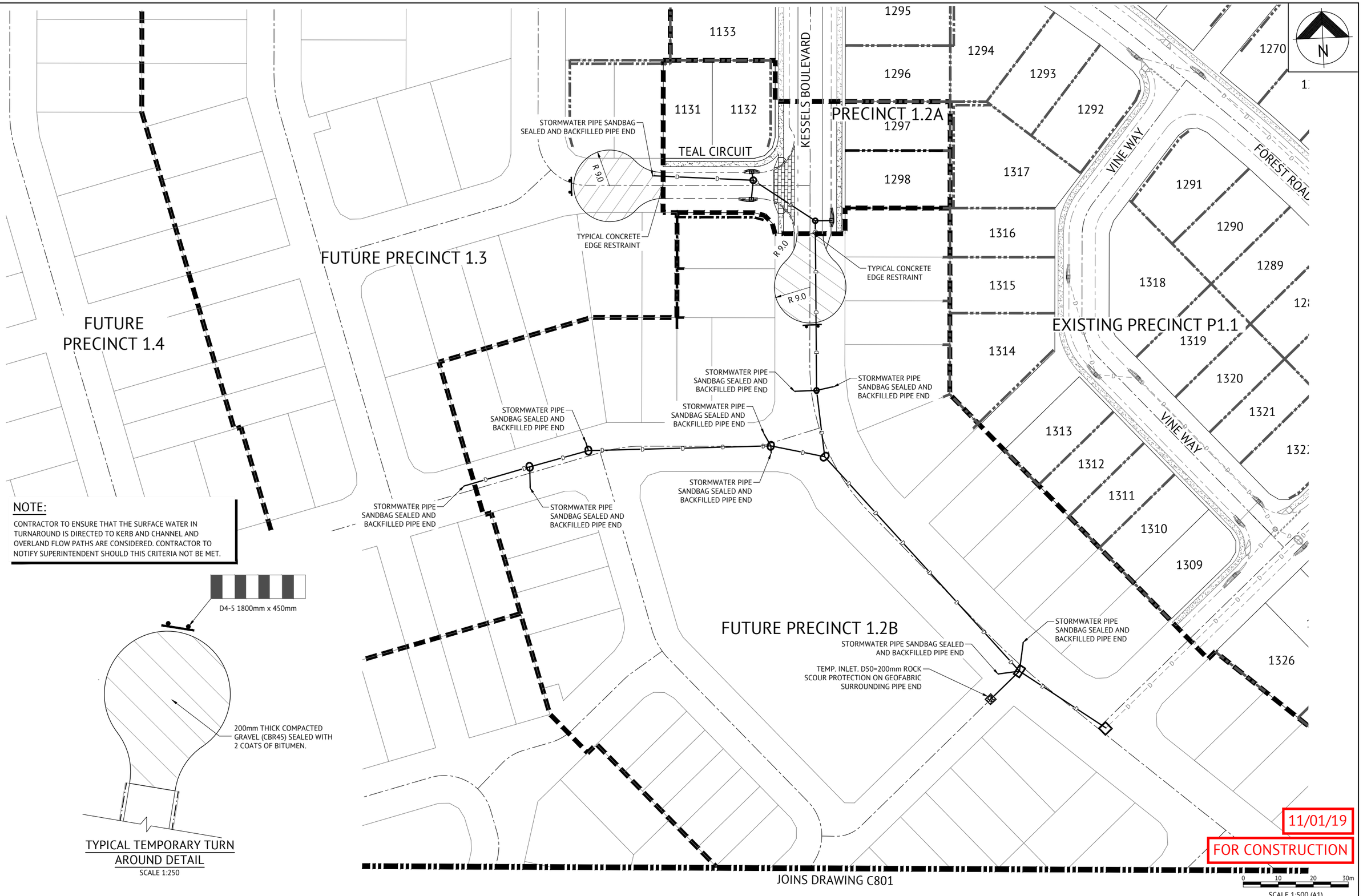
CHECKED	MICHAEL MAJZNER	KEITH HOWELLS	02/07/18
PROJECT MANAGER	JOSHUA STONE	RPEQ 7295	
PROJECT DIRECTOR	DATE	SCALE	
JOSHUA STONE	02/07/18		

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION & SEDIMENT CONTROL SECTIONS & DETAILS - SHEET 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C704	A



NOTE:

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

TYPICAL TEMPORARY TURN AROUND DETAIL

SCALE 1:250

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0 10 20 30m

SCALE 1:500 (A1)

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PROJECT MANAGER	JOSHUA STONE	SCALE	AS SHOWN
PROJECT DIRECTOR	DATE 02/07/18		
JOSHUA STONE			

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 1 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C800	A

JOINS DRAWING C800

N

PIPE AND END

STORMWATER PIPE SANDBAG SEALED AND BACKFILLED PIPE END

STORMWATER PIPE SANDBAG SEALED AND BACKFILLED PIPE END

STORMWATER PIPE SANDBAG SEALED AND BACKFILLED PIPE END

TEMP. INLET. D50=200mm ROCK SCOUR PROTECTION ON GEOFABRIC SURROUNDING PIPE END

STORMWATER PIPE SANDBAG SEALED AND BACKFILLED PIPE END

FUTURE PRECINCT 1.2B

EXISTING PRECINCT P1.1

FUTURE PRECINCT 2

FUTURE PRECINCT 1.5

GROVE

EMERALD PARADE

1312
1311
1310
1309
1284
1283
1323
1282
1324
1281
1325
1334
1239
1344
1326
1333
1238
1332
1237
1331
1236
1235
1234
1233

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PROJECT MANAGER	JOSHUA STONE	SCALE	
PROJECT DIRECTOR	DATE	0 10 20 30m	
JOSHUA STONE	02/07/18	SCALE 1:500 (A1)	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	TEMPORARY WORKS - ROADWORKS AND DRAINAGE - SHEET 2 OF 2

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
C801	A

GENERAL:

G.1. CONSTRUCTION METHODS ARE THE RESPONSIBILITY OF THE BUILDER. DETAILS SHOWN ARE A GUIDE AND ALTERNATE DETAILS MAY BE SUBMITTED FOR ENGINEERING APPROVAL, PRIOR TO WORKS COMMENCING

G.5. MAINTAIN THE STRUCTURE IN A STABLE CONDITION DURING CONSTRUCTION.

G.6. DO NOT OVERSTRESS ANY PART OF THE MEMBERS DURING FABRICATION, TRANSPORTATION OR ERECTION.

G.7. PROPRIETARY ITEMS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATION AND DESIGN DETAILS.

G.8. IT IS THE RESPONSIBILITY OF THE BUILDER TO MAKE GOOD ANY DAMAGE CAUSED TO ADJOINING STRUCTURES OR ELEMENTS CREATED DURING CONSTRUCTION.

SERVICE LOADS:

SL.1. STRUCTURAL WORK HAS BEEN DESIGNED FOR THE FOLLOWING LOADS:
- PERMANENT DEAD LOAD OF STRUCTURE AS SHOWN ON DRAWINGS
- LIVE LOADS TO AS/NSZ5100.2: 80 kN (W80 WHEEL LOAD)
- IMPOSED SURCHARGE LOAD ON GROUND: 20 kPa
- SOIL DENSITY: 20 kN/m³ (HEIGHT OF SOIL OVER ROOF SLAB = 0.5m MAX.)
- AT REST LATERAL EARTH PRESSURE COEFFICIENT ko: 0.5

SL.2. THE ABOVE DO NOT INCLUDE LOADS WHICH MAY BE APPLIED DURING CONSTRUCTION.

SITE PREPARATION AND FOUNDATIONS:

P.1. REFER TO GEOTECHNICAL INVESTIGATIONS PREPARED BY MORRISON GEOTECHNIC

P.2. NO GEOTECHNICAL INVESTIGATION HAS BEEN COMPLETED. BUILDER TO CONFIRM SITE CLASSIFICATION AND INSITU MATERIAL PROPERTIES PRIOR TO POURING FOUNDATIONS.

P.3. GEOTECHNICAL ENGINEER SHALL BE ENGAGED, AT THE BUILDER'S EXPENSE TO CERTIFY THAT THE ALLOWABLE BEARING PRESSURE HAS BEEN ACHIEVED IN THE BASE OF ALL FOOTINGS. GEOTECHNICAL ENGINEER'S CERTIFICATE SHALL BE SUBMITTED TO STRUCTURAL ENGINEER PRIOR TO PLACEMENT OF 50mm BLINDING LAYER AND /OR REINFORCEMENT.

P.4. EARTHWORKS SHALL BE IN ACCORDANCE WITH AS 3798 INCLUDING THE FOLLOWING.

P.5. THE BUILDING SITE SHALL BE STRIPPED OF ALL VEGETABLE MATTER AND THE ASSOCIATED LAYER OF TOPSOIL.

P.6. FOUNDATIONS HAVE BEEN DESIGNED FOR A SAFE BEARING CAPACITY OF 100 kPa. IT IS THE RESPONSIBILITY OF THE BUILDER TO DETERMINE FINAL BEARING PRESSURE ON SITE, UPON EXCAVATION.

P.7. THE TOP 150mm OF SUBGRADE (UNDER FOUNDATIONS, FOOTINGS AND SLABS) SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN ACCORDANCE WITH METHOD 5.1.1 OF AS 1289 (STANDARD COMPACTION).

P.8. FILL MATERIAL SHALL BE SAND FILL OR OTHER APPROVED GRANULAR MATERIAL AND SHALL BE PLACED IN LAYERS NOT EXCEEDING 150mm IN THICKNESS. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS PER ABOVE. FOR COHESIONLESS FILL WITH LESS THAN 5% PASSING THE 75 MICRON SIEVE, THE MATERIAL SHALL BE COMPACTED TO 70% DENSITY INDEX IN ACCORDANCE WITH AS 1289 TEST E6.1.

P.9. TO AVOID SWELLING OF FOUNDATIONS AND SLAB MOVEMENTS, THE AREA AROUND THE SLAB SHALL BE EFFECTIVELY DRAINED, BOTH BEFORE AND AFTER CONSTRUCTION, TO ENSURE NO PONDING OF WATER ON OR ADJACENT TO THE SLAB AREA. SPOON DRAINS SHALL BE PROVIDED AS REQUIRED TO FACILITATE DRAINAGE ADJACENT TO THE SLAB AND AT THE TOPS OF BANKS.

P.10. ALL SLABS SHALL BE CAST ON A MINIMUM THICKNESS OF 50mm OF BEDDING SAND.

P.11. A MOISTURE BARRIER OF 0.2mm POLYETHYLENE FILM LAPPED 200mm AND TAPED AT JOINTS SHALL BE PROVIDED UNDER THE SLAB.

CONCRETE:

C.1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS2870 AND AS3600.

C.2. CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES SEE TABLE BELOW:

CONCRETE TABLE

ELEMENT	CLASS	CLASS & GRADE (CONCRETE)	CLEAR COVER TO REINF'T (mm)	MAX AGG. SIZE (mm)	MAX SLUMP (mm)
STORMWATER PIT WALLS	B1	N32	40	20	80
STORMWATER PIT BASE	B1	N32	40	20	80
STORMWATER PIT ROOF SLAB	A2	N32	40	20	80

C.3. SPLICES IN REINFORCEMENT MUST BE MADE ONLY IN POSITIONS SHOWN ON THE STRUCTURAL DRAWINGS OR IN POSITIONS OTHERWISE APPROVED IN WRITING BY THE SUPERINTENDENT, LAPS MUST BE IN ACCORDANCE WITH AS 3600 AND NOT LESS THAN THE DEVELOPMENT LENGTH FOR EACH BAR.

C.4. SPLICES IN MESH: THE OUTERMOST TRANSVERSE WIRES MUST BE OVERLAPPED BY AT LEAST THE SPACING OF THE TRANSVERSE WIRES PLUS 50mm.

C.5. WELDING OF REINFORCEMENT IS NOT PERMITTED U.N.O. ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE SUPERINTENDENT.

C.6. CURING OF ALL CONCRETE MUST BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 7 DAYS U.N.O. IN ACCORDANCE WITH AS 3600. APPROVED SPRAY-ON CURING COMPOUNDS THAT COMPLY WITH AS 3799 MAY BE USED WHERE FLOOR FINISHES WILL NOT BE AFFECTED. POLYTHENE SHEETING OR WET HESSAIN MAY BE USED TO RETAIN CONCRETE MOISTURE WHERE PROTECTED FROM THE WIND AND TRAFFIC. CURING MUST COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT.

REINFORCEMENT:

R.1. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE AS FOLLOWS:
- R.1.1. R: DENOTES STRUCTURAL GRADE 250 PLAIN ROUND BAR TO AS4671
- R.1.2. N: DENOTES HOT ROLLED GRADE 500 DEFORMED BAR DUCTILITY CLASS N TO AS4671
- R.1.3. L: DENOTES HARD DRAWN WIRE GRADE 500 SQUARE REINFORCING MESH DUCTILITY CLASS L TO AS4671
- R.1.4. RL: DENOTES HARD DRAWN WIRE GRADE 500 RECTANGULAR REINFORCING MESH DUCTILITY CLASS L TO AS4671

R.2. ALL N BARS TO BE GRADE 500.

R.3. FOLLOWING ABBREVIATIONS APPLY TO LOCATION OF REINFORCEMENT:
EW: EACH WAY FF: FAR FACE BB: BOTTOM BOTTOM (LAID FIRST)
EF: EACH FACE B: BOTTOM TT: TOP TOP (LAID LAST)
NF: NEAR FACE T: TOP CP: CENTRALLY PLACED

R.4. CLEAR COVER TO REINFORCEMENT SHALL BE PROVIDED BY APPROVED CHAIRS, SPACERS OR TIES AS REQUIRED TO PROVIDE ADEQUATE SUPPORT AS FOLLOWS:
- R.4.1. BARS 16mm AND LESS AND FABRIC - 1000mm CENTERS
- R.4.2. BARS 20mm AND OVER 1200mm CENTERS

R.5. USE MESH SUPPLIED IN FLAT SHEETS UNLESS APPROVED OTHERWISE.

R.6. WELDING AND BENDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY ENGINEER.

REINFORCEMENT NOMINATIONS:

RN.7. NOMINATION CALL OUT DESCRIPTION:

2-N16-100x2000

NUMBER OF BARS
SIZE OF BARS
LENGTH OF BARS
BAR SPACING

RN.8. LAP LENGTHS TO COMPLY WITH AS3600, OR FOR SLAB AND WALL REINFORCEMENT WITH BARS AT > 150mm CENTRES WITH THE FOLLOWING UNO: REFER TO TABLE BELOW:

REINFORCEMENT LAP TABLE

LOCATION	F'C	BAR SIZE AND LAP LENGTH (mm)				
		N12	N16	N20	N24	N28
HORIZONTAL BARS WITH ≤ 300mm CONCRETE BELOW	25	500	675	1000	1300	1600
	32	450	625	875	1175	1400
	40+	450	600	775	1050	1250
HORIZONTAL BARS WITH > 300mm CONCRETE BELOW BAR & VERT. BARS	25	650	875	1300	1700	2050
	32	575	775	1175	1525	1850
	40+	575	775	1000	1350	1650

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PROJECT MANAGER JOSHUA STONE
PROJECT DIRECTOR JOSHUA STONE DATE 02/07/18

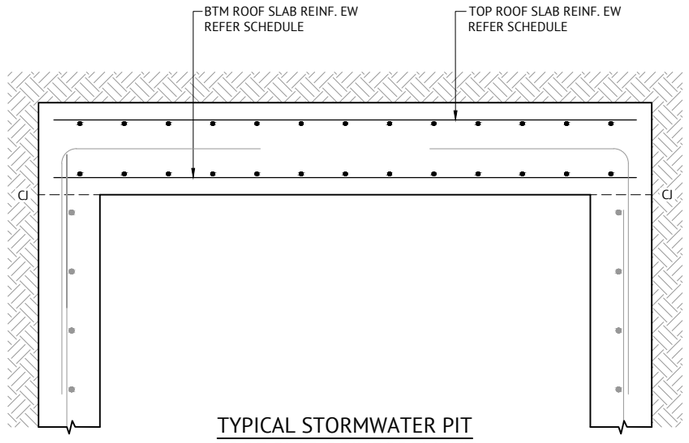
RPEQ BEN LANCINI RPEQ 16031 DATE 02/07/18
SCALE

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER STRUCTURAL NOTES

JOB CODE MIR001-02A
SHEET NUMBER S001
REV A

PIT SCHEDULE

PIT MARK	REINFORCEMENT ARRANGEMENT (WALLS/BASE)	DIMENSIONS			REINFORCEMENT					
		BASE SLAB	WALLS	ROOF SLAB	BASE SLAB	STARTER BARS	WALL (VERTICAL)	WALL (HORIZONTAL)	ROOF SLAB TOP	ROOF SLAB BOTTOM
15/100	SINGLE/SINGLE	200	200	200	N16-200 EW	N16 - 200	N16-200	N16-200	SL81	N12-200
16/100	SINGLE/SINGLE	200	200	200	N16-200 EW	N16 - 200	N16-200	N16-200	SL81	N12-200
12/200	SINGLE/SINGLE	200	200	200	N12-200 EW	N12 - 200	N12-200	N12-200	SL81	N12-200

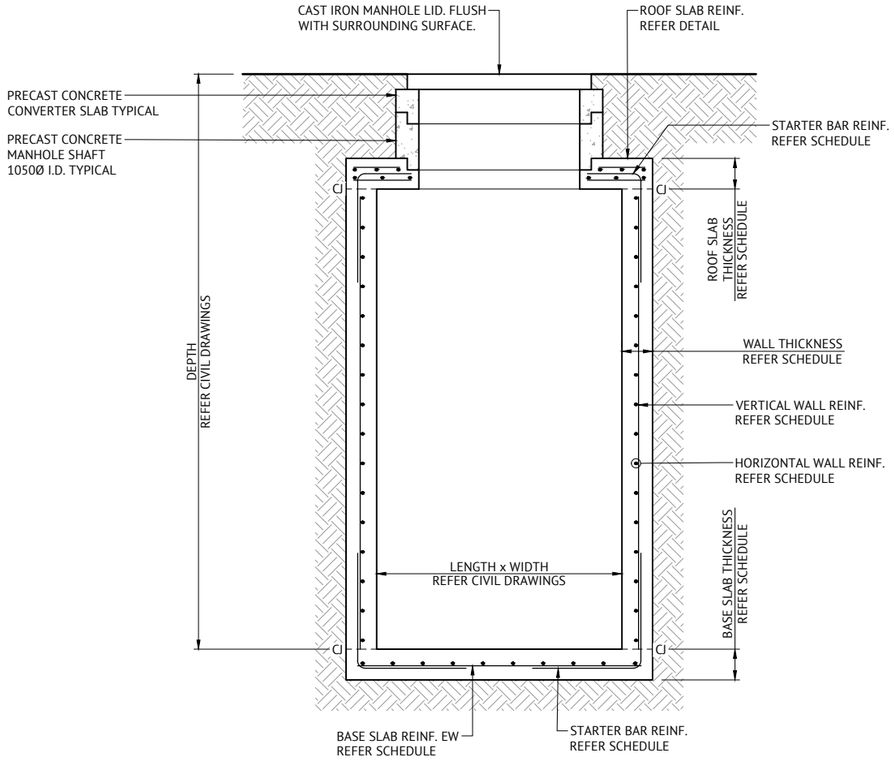


TYPICAL STORMWATER PIT
ROOF SLAB REINFOREMENT

SCALE 1:10

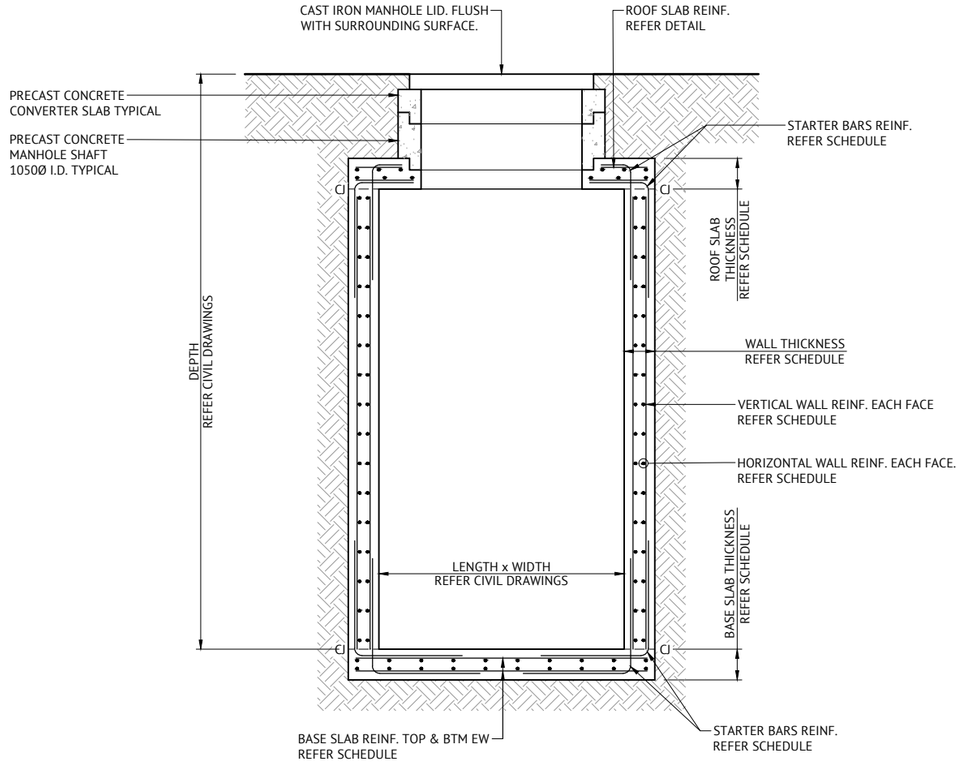
NOTES

1. REFER DRAWING No. S001 FOR STRUCTURAL NOTES



TYPICAL STORMWATER PIT
SINGLE LAYER REINFORCEMENT

SCALE 1:20



TYPICAL STORMWATER PIT
DOUBLE LAYER REINFORCEMENT

SCALE 1:20

11/01/19

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0 0.2 0.4 0.6m

SCALE 1:10 (A1)

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PROJECT MANAGER	JOSHUA STONE		
PROJECT DIRECTOR	JOSHUA STONE		02/07/18

SCALE 0 0.4 0.8 1.2m

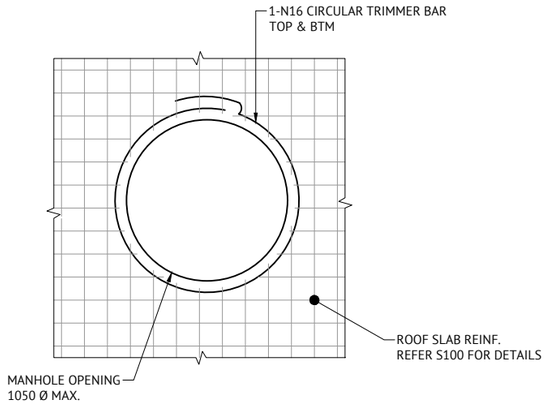
SCALE 1:20 (A1)

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER REINFORCED CONCRETE PIT ARRANGEMENT

JOB CODE	
MIR001-02A	
SHEET NUMBER	REV
S100	A

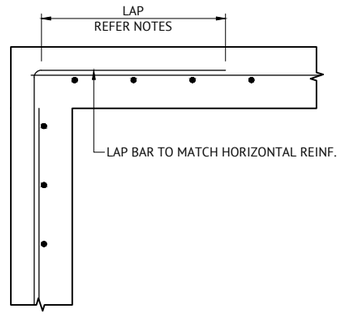
NOTES

1. REFER DRAWING No. S001 FOR STRUCTURAL NOTES



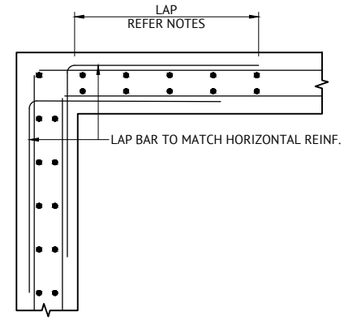
TYPICAL ROOF PENETRATION
REINFORCEMENT DETAIL

NOT TO SCALE



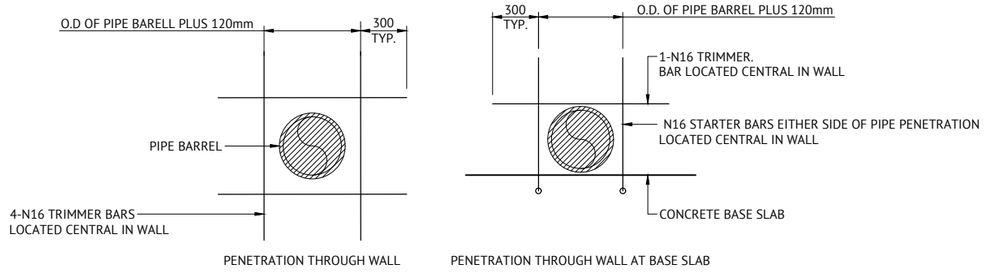
TYPICAL 'L' INTERSECTION DETAIL
SINGLE LAYER REINFORCEMENT

NOT TO SCALE



TYPICAL 'L' INTERSECTION DETAIL
DOUBLE LAYER REINFORCEMENT

NOT TO SCALE



TYPICAL WALL PIPE PENETRATION
REINFORCEMENT DETAIL

NOT TO SCALE

11/01/19

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PROJECT MANAGER	JOSHUA STONE	SCALE	
PROJECT DIRECTOR	JOSHUA STONE	DATE	02/07/18

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.2A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	STORMWATER REINFORCED CONCRETE PIT DETAILS

JOB CODE	
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SHEET NUMBER	REV
S101	A