EVERLEIGH PRECINCT 1.5A 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
C102	DRAINAGE SWALE LAYOUT AND LONG SECTION
C103	DRAINAGE SWALE TYPICAL SECTIONS
C104	DRIVEWAY SECTIONS AND DETAILS - SHEET 1 OF 2
C105	DRIVEWAY SECTIONS AND DETAILS - SHEET 2 OF 2
C106	DRIVEWAY CULVERT SECTIONS
C200	EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2
C201	EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2
C202	INTEFACE LOTS EARTHWORKS PLAN
C203	INTERFACE LOTS EARTHWORKS SECTIONS AND DETAILS
C204	TEVIOT ROAD SWALE LAYOUT PLAN
C205	TEVIOT ROAD SWALE SECTIONS AND DETAILS
C206	EARTHWORKS SUBGRADE ROCK PREPARATION PLAN - SHEET 1 OF 2
C207	EARTHWORKS SUBGRADE ROCK PREPARATION PLAN - SHEET 2 OF 2
C208	EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2
C209	EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2
C300	ROADWORKS TYPICAL SECTIONS & NOTES
C301	HEDGE LANE LONGITUDINAL SECTIONS
C302	HEDGE LANE CROSS SECTIONS - SHEET 1 OF 4
C303	HEDGE LANE CROSS SECTIONS - SHEET 2 OF 4
C304	HEDGE LANE CROSS SECTIONS - SHEET 3 OF 4
C305	HEDGE LANE CROSS SECTIONS - SHEET 4 OF 4
C306	GRASS LANE LONGITUDINAL AND CROSS SECTIONS
C307	LEAF STREET LONGITUDINAL AND CROSS SECTIONS
C308	AMAZON WAY LONGITUDINAL AND CROSS SECTIONS
C309	ROAD 18 LONGITUDINAL AND CROSS SECTIONS
C310	INTERSECTION DETAILS PLAN
C311	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2
C312	PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2
C313	ACOUSTIC FENCE DETAILS
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 3
C404	STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 3
C405	STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 3
C406	Q2 MINOR STORM CALCULATIONS
C407	Q100 MAJOR STORM CALCULATIONS
C408	STORMWATER STRUCTURE DETAILS
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 2
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 2
C505	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
C603	WATER RETICULATION DETAILS
C700	EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE
C701	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS - SHEET 1
C702	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS - SHEET 2
C703	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE
C704	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1
C705	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2

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

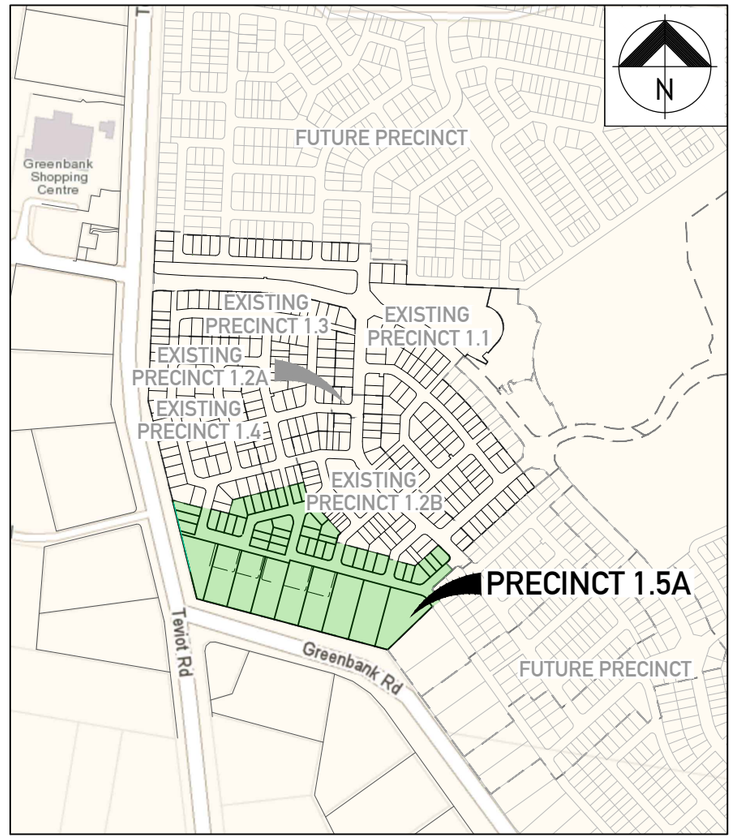
1. NO LOCATING/ POTHOLING OF EXISTING SERVICES HAS BEEN CARRIED OUT. THE CONTRACTOR IS TO DETERMINE THE LOCATION AND DEPTH OF ALL EXISTING SERVICES WHICH AFFECT THE WORKS AND REPORT ANY POTENTIAL CLASHES TO THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION WORKS.
2. THE CONTRACTOR IS RESPONSIBLE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

SCALE 1:5000

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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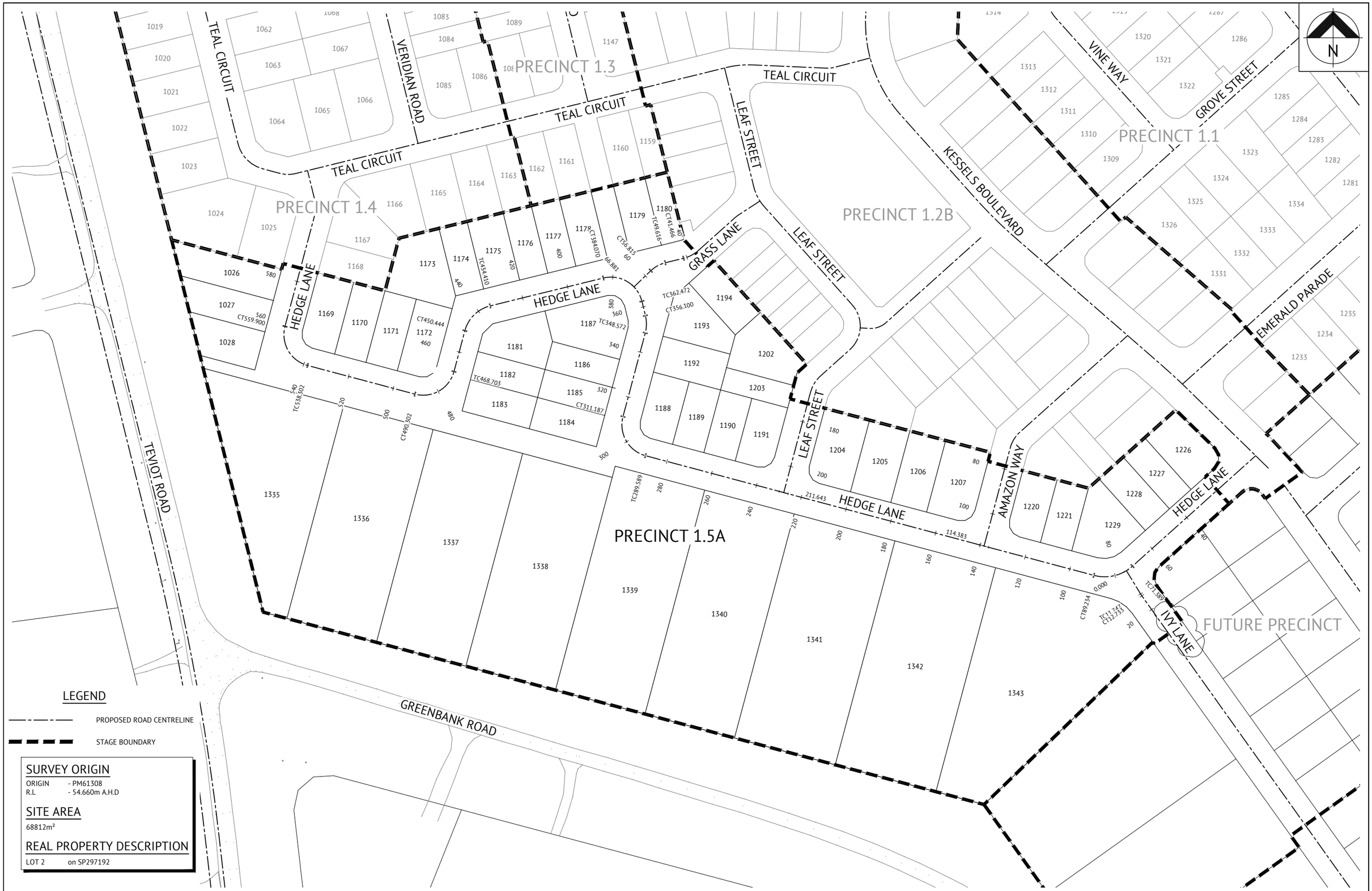
DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER
JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE COVER SHEET LOCALITY PLAN & DRAWING SCHEDULE

JOB CODE MIR001-05
SHEET NUMBER C001
REV A



FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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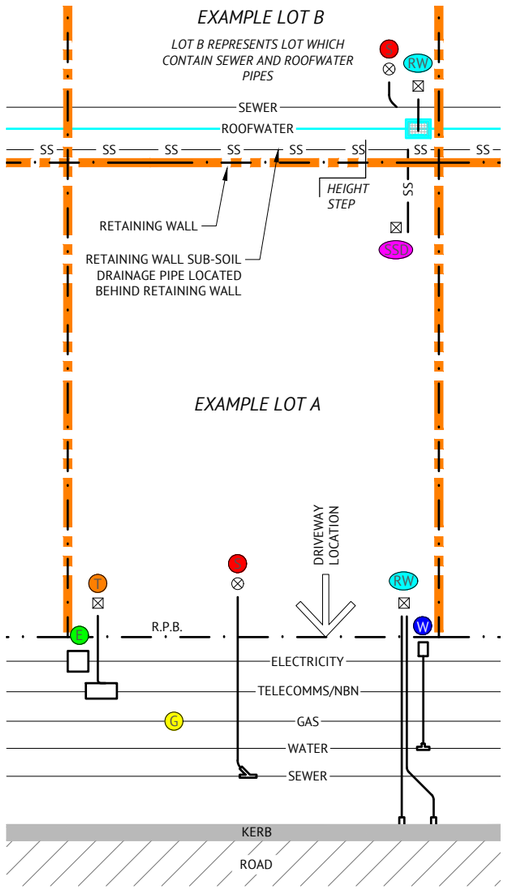
PROJECT CERTIFIER PAT BRADY 23/06/20 RPEQ 7112

SCALE 0 15 30 45m
SCALE 1:750(A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SURVEY SETOUT PLAN

JOB CODE MIR001-05
SHEET NUMBER C002
REV B



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."

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

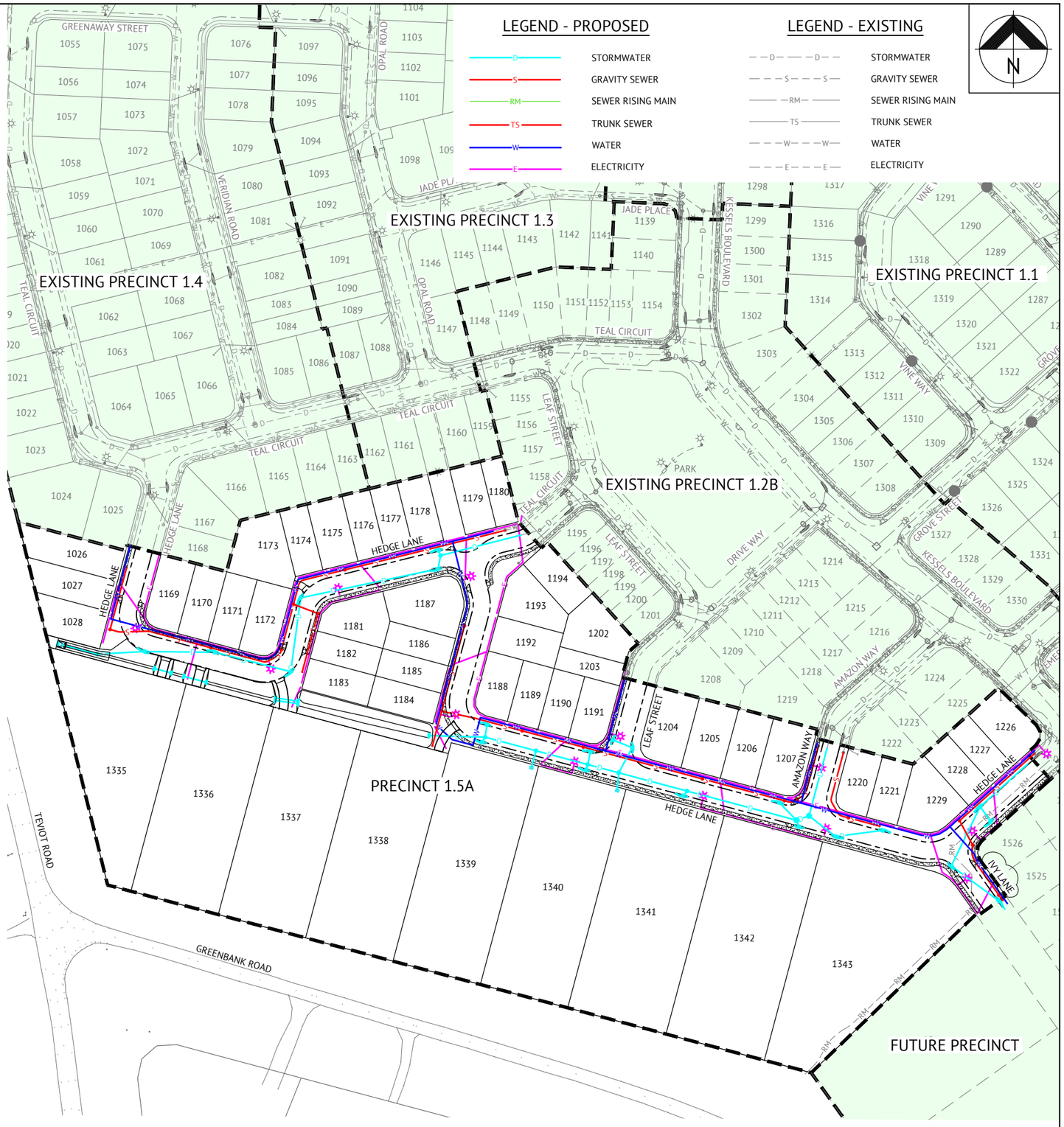
T **TELECOMMUNICATIONS/NBN** - PVC CONDUIT (BURIED APPROX 300mm). MARKED WITH 900x50x25 HW STAKE LABELLED "TELECOMMS".

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

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

RETAINING WALL

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



LAYOUT PLAN

SCALE 1:1000

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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CHECKED	P. BRADY
PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	PAT BRADY
	23/06/20
	RPEQ 7112

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

ORIGINAL SHEET SIZE A1

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	OVERALL SERVICES LAYOUT

JOB CODE	
MIR001-05	
SHEET NUMBER	REV
C003	B

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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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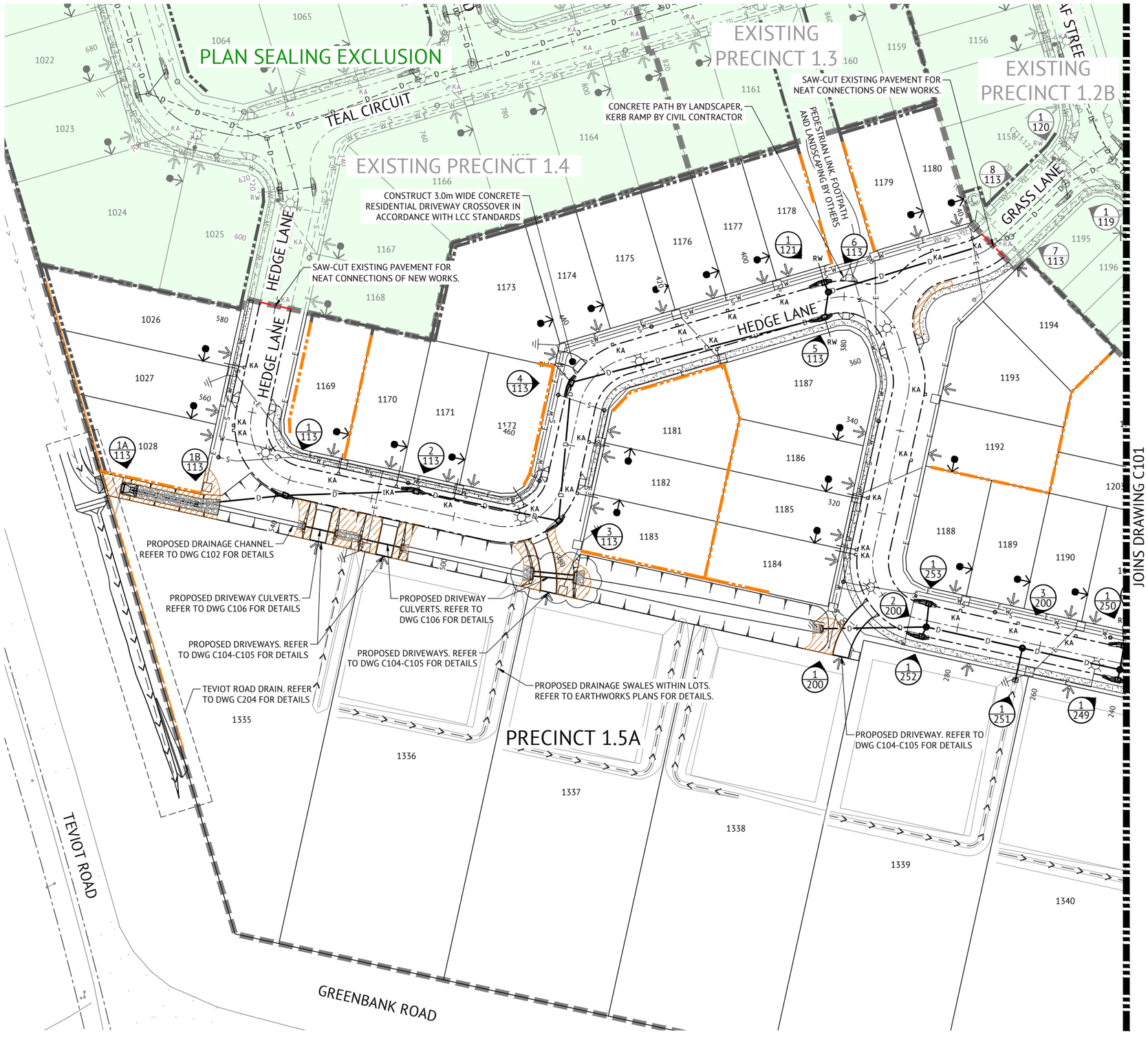
CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE 15/11/19 RPEQ 15187

SCALE

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: SAFETY IN DESIGN PLAN

JOB CODE: MIR001-05
SHEET NUMBER: C004
REV: A



LEGEND - PROPOSED

- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. REFER IPWEA STD DWG RS-080.
- PROPOSED BCC STD TYPE 'G' KERB ONLY. REFER BCC STD DWG BSD-2001.
- PROPOSED 1.5m WIDE (U.N.O.) CONCRETE FOOTPATH. REFER LCC STD DWGS.
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- DURATHEM THRESHOLD TREATMENT. REFER TO LANDSCAPE PLANS FOR COLOUR AND PATTERN.
- PROPOSED STORMWATER
- PROPOSED STORMWATER STRUCTURE No.
- ROOFWATER DRAINAGE KERB ADAPTORS WITH TWIN 125x75 GALVANISED RHS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS. REFER DETAIL ON DWG C400.
- ROOFWATER DRAINAGE KERB ADAPTORS & PROPERTY PIT. REFER DETAIL ON DWG C400.
- PROPOSED ROOFWATER HOUSE CONNECTION (100 Ø uPVC)
- PROPOSED RETAINING WALL
- ZERO LOT BOUNDARY
- PROPOSED FUTURE DRIVEWAY LOCATION
- PROPOSED SEWER
- PROPOSED WATER
- PAD MOUNTED TRANSFORMER
- PROPOSED LANDSCAPING WITHIN VERGE. CONCRETE EDGE RESTRAINT BY LANDSCAPING CONTRACTOR. CIVIL CONTRACTOR TO COORDINATE WITH LANDSCAPING CONTRACTOR TO CARRY OUT THEIR WORKS. REFER TO LANDSCAPE DRAWINGS FOR FURTHER DETAIL.

LEGEND - EXISTING

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

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.

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

STORMWATER TRENCH BACKFILL NOTE:

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	AMENDED CULVERTS AND HEADWALL	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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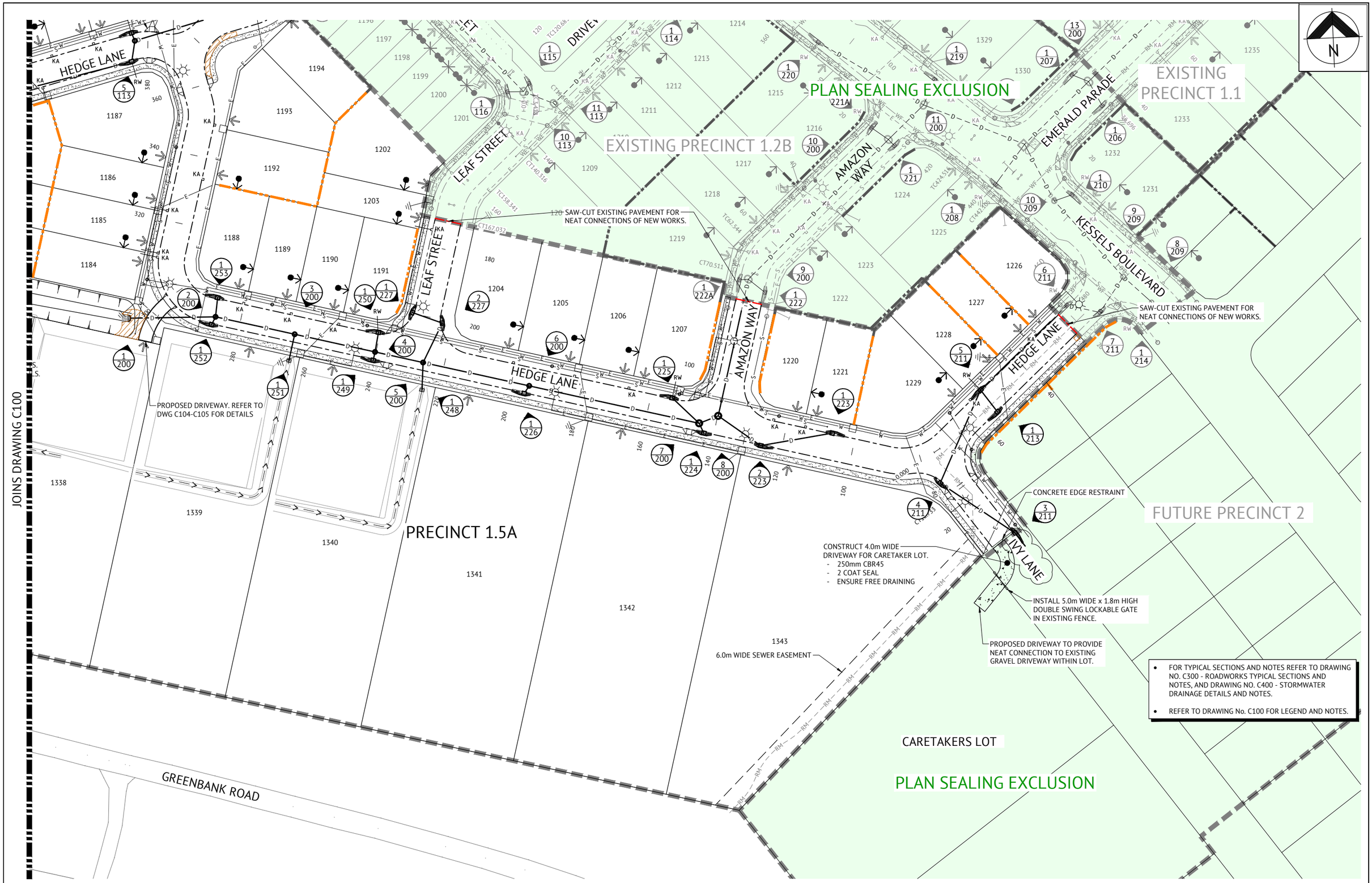
WEB: www.premise.com.au

DESIGNED M. MAIZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY RPEQ 7112 29/05/20

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C100
REV B



- 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 AND NOTES.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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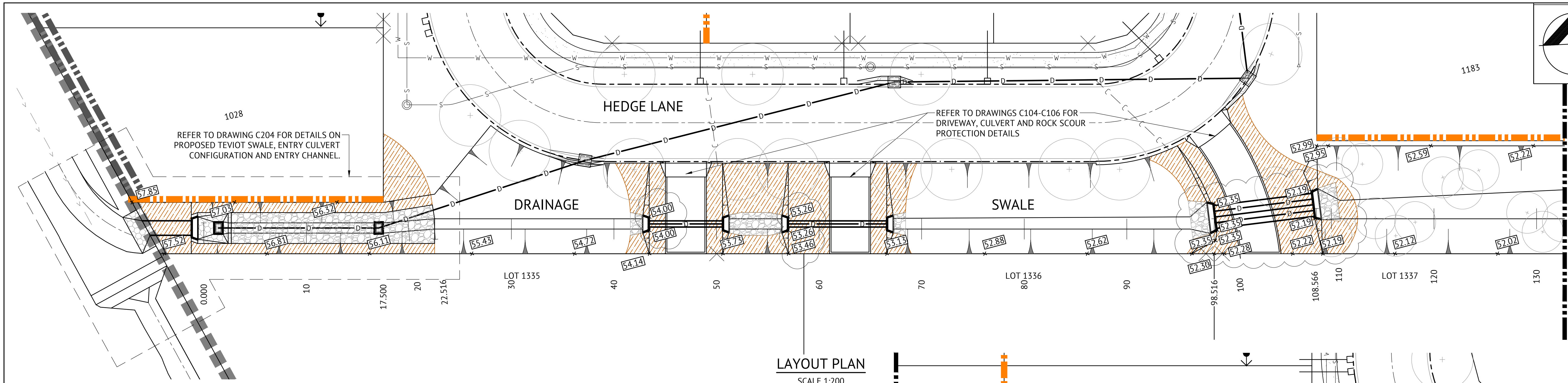
DESIGNED: M. MAJZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY 23/06/20 RPEQ 7112

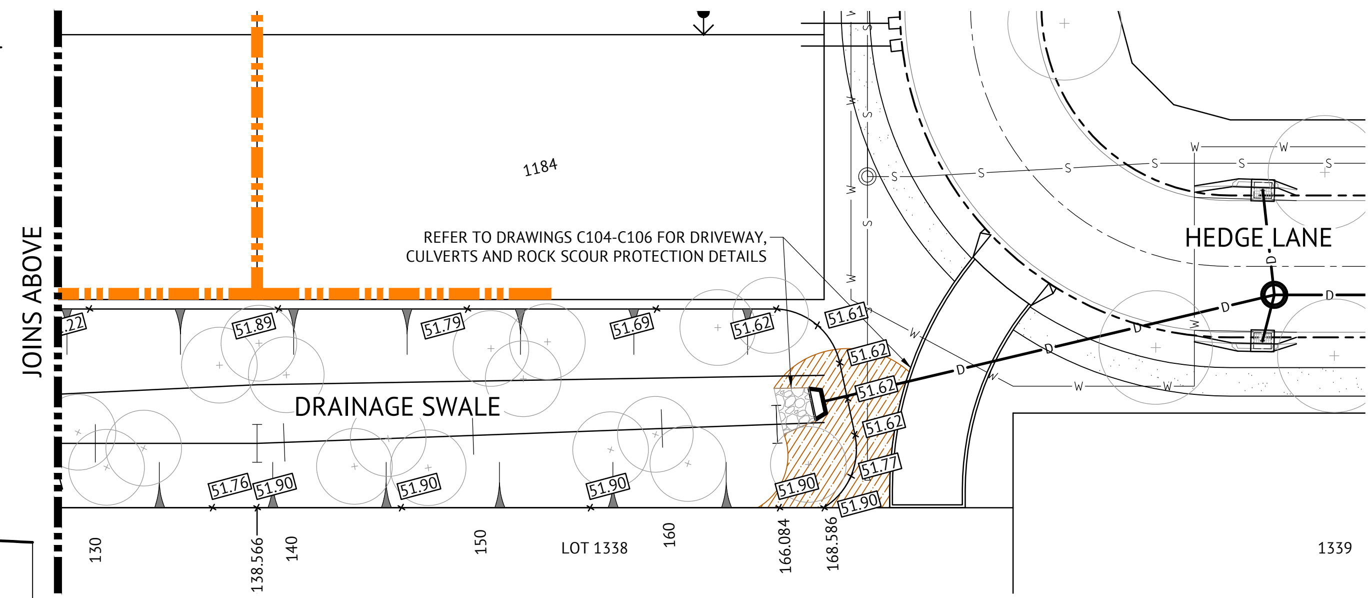
SCALE: 0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

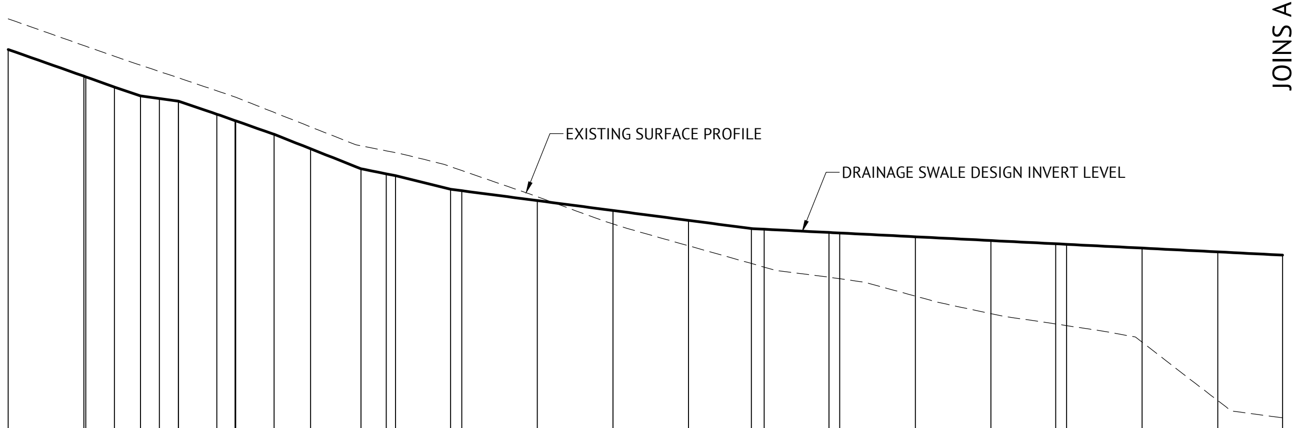
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROADWORKS & DRAINAGE LAYOUT PLAN - SHEET 2 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C101
REV: B



LAYOUT PLAN
SCALE 1:200





Horiz Curve Data

Vertical Geometry Grade (%): -7.07% | -7.15% | -6.80% | 2.77% | -6.78% | -7.08% | -7% | -7.94% | -4.01% | -4.94% | -2.62% | -1%

Vertical Grade Length (m): 10.25m | 3.45m | 5.09m | 5.08m | 0.65m | 7.28m | 39.80m | 70.27m

Vertical Curve Length (m): 3.80m | 5.02m | 2.48m | 4.58m

Vertical Curve Radius (m)

DATUM R.L.41.0

CUT (-)/FILL DEPTH	-0.811	-0.811	-0.811	-0.816	-0.815	-0.717	-0.619	-0.621	-0.626	-0.626	-0.580	-0.580	-0.608	-0.608	-0.608	-0.600
DESIGN SURFACE	56.446	55.739	55.721	55.450	55.215	55.146	55.076	54.731	54.562	54.556	54.200	53.816	53.287	53.153	53.104	52.744
NATURAL SURFACE	57.257	56.550	56.533	56.266	56.030	55.863	55.695	55.352	55.188	55.182	54.780	54.396	53.895	53.761	53.711	53.344
CHAINAGE	0.00	10.00	10.25	14.05	17.50	20.00	22.52	27.60	30.00	30.08	35.16	40.00	46.66	50.00	51.24	58.52

CUT (-)/FILL DEPTH	-0.535	-0.103	0.355	0.672	0.924	1.003	1.184	1.211	1.572	1.936	2.123	2.152	2.492	3.937	4.309
DESIGN SURFACE	52.705	52.443	52.182	51.920	51.702	51.685	51.600	51.586	51.486	51.386	51.300	51.286	51.186	51.086	51.000
NATURAL SURFACE	53.241	52.546	51.827	51.248	50.778	50.682	50.415	50.375	49.914	49.450	49.177	49.133	48.693	47.149	46.691
CHAINAGE	60.00	70.00	80.00	90.00	98.32	100.00	108.57	110.00	120.00	130.00	138.57	140.00	150.00	160.00	168.59

DRAINAGE SWALE LONG SECTION
SCALE 1:500 (H) ; 1:50 (V)

- REFER TO DRAWING No. C100 FOR LEGEND AND NOTES.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	AMENDED CULVERT, HEADWALLS AND ROCK PROTECTION UNDER LOT 1337 DWAY, ADDED SPOT LEVELS	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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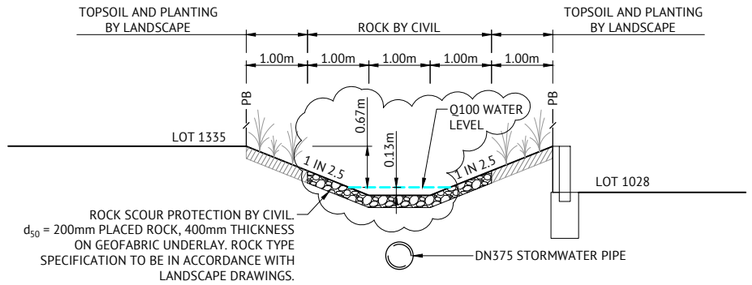
DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 29/05/20 RPEQ 7112

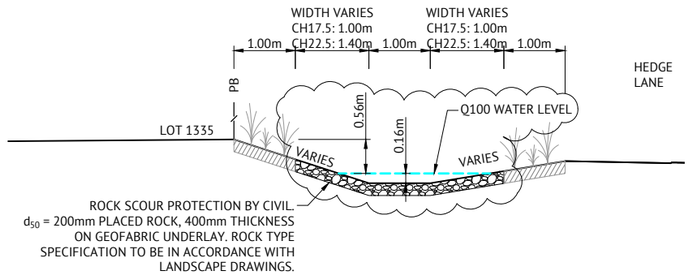
SCALE
0 4 8 12m
SCALE 1:200 (A1)
HORIZONTAL 1:500 (A1) 0 10 20 30m
VERTICAL 1:50 (A1) 0 1 2 3m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRAINAGE SWALE LAYOUT AND LONG SECTION

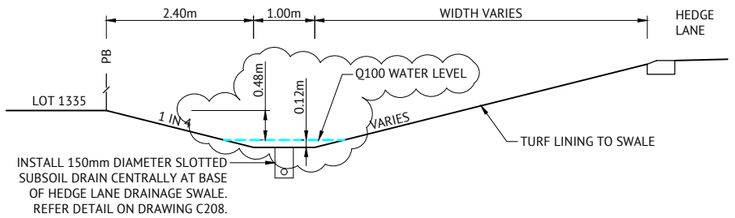
JOB CODE MIR001-05
SHEET NUMBER C102
REV B



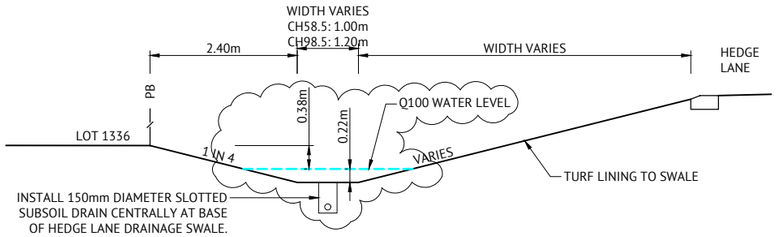
TYPICAL DRAINAGE SWALE SECTION
CH0.00 TO CH17.5
NTS



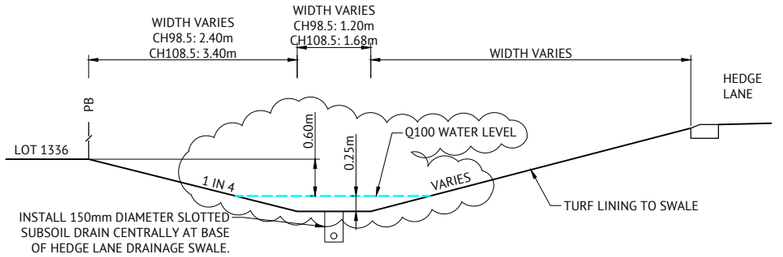
TYPICAL DRAINAGE SWALE SECTION
CH17.5 TO CH22.5
NTS



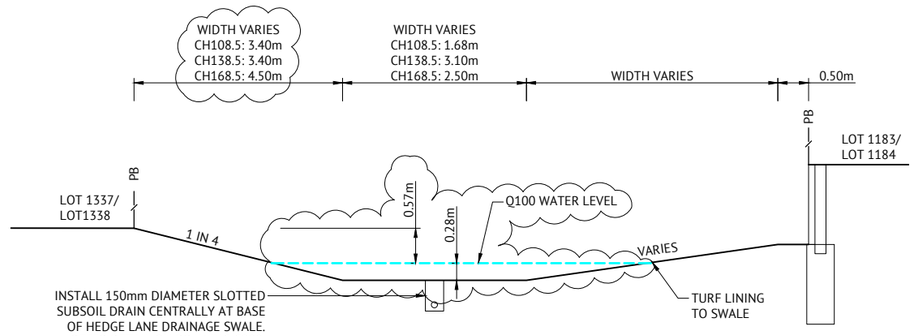
TYPICAL DRAINAGE SWALE SECTION
CH22.5 TO CH58.5
NTS



TYPICAL DRAINAGE SWALE SECTION
CH58.5 TO CH98.5
NTS



TYPICAL DRAINAGE SWALE SECTION
CH98.5 TO CH108.5
NTS



TYPICAL DRAINAGE SWALE SECTION
CH108.5 TO CH168.5
NTS

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	ADDED Q100 WATER LEVEL AND ADDED WIDTHS	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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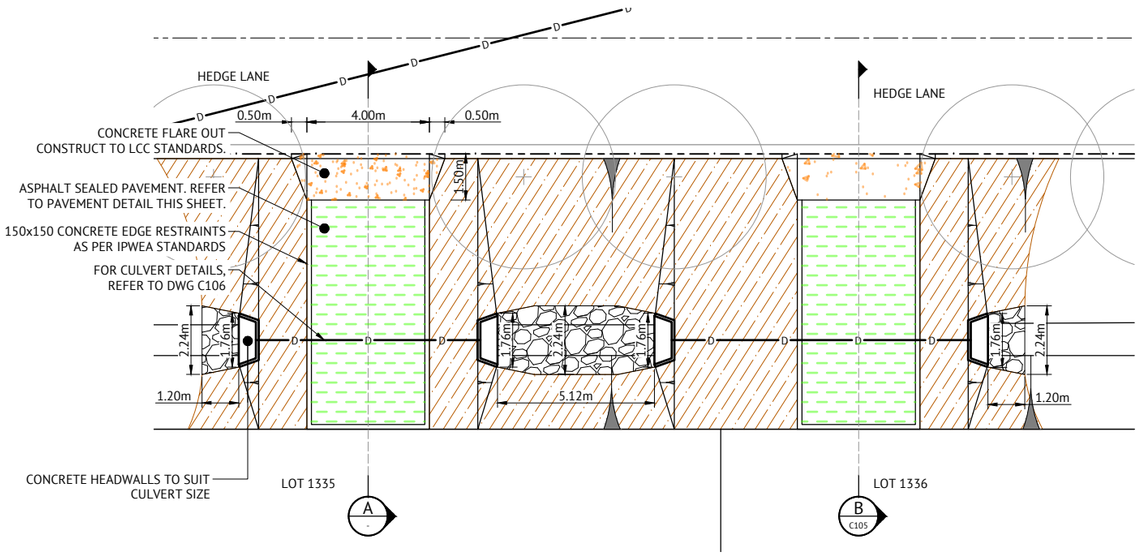
DESIGNED: M. MAIZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY 29/05/20 RPEQ 7112
SCALE: NTS
ORIGINAL SHEET SIZE A1

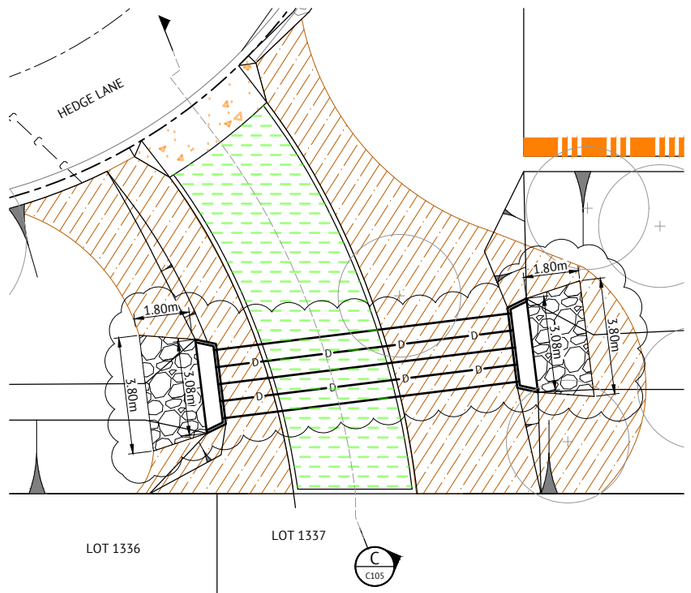
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: DRAINAGE SWALE TYPICAL SECTIONS

JOB CODE: MIR001-05
SHEET NUMBER: C103
REV: B



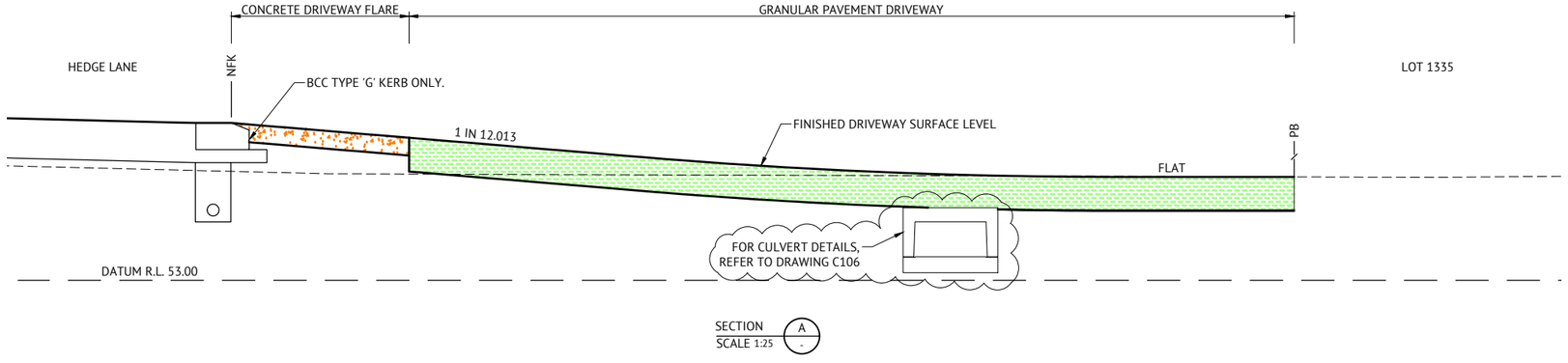
LOTS 1335 AND 1336 DRIVEWAYS

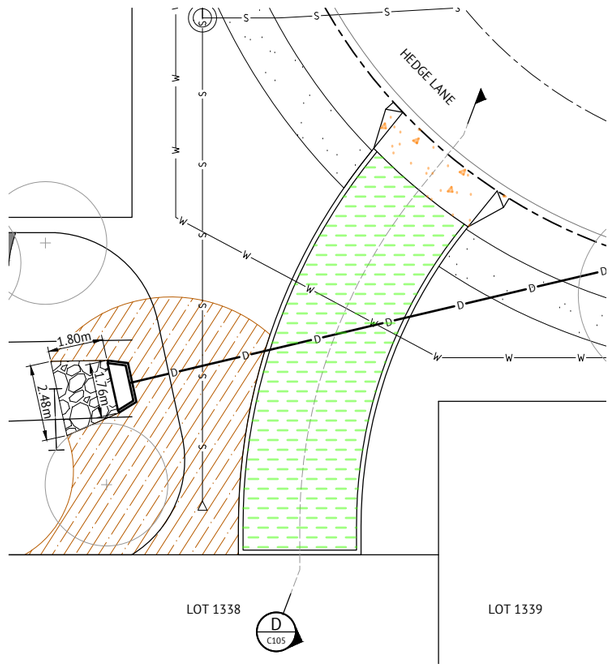
SCALE 1:100



LOT 1337 DRIVEWAY

SCALE 1:100





LOT 1338 DRIVEWAY

SCALE 1:100

DRIVEWAY PAVEMENT DESIGN (PRELIMINARY)

CLASS	-	REAR ACCESS DRIVEWAY
ESA's	-	1.1×10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER TYPE		PRIME
CBR 80	-	150mm
CBR 45	-	100mm
TOTAL BOX	-	285mm

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 OF PAVEMENT CONSTRUCTION.

LEGEND - PROPOSED

CONCRETE DRIVEWAY FLARE

GRANULAR PAVEMENT DRIVEWAY

ROCK SCOUR PROTECTION BY CIVIL.
d_{50} = 200mm PLACED ROCK, 400mm THICKNESS ON GEOFABRIC UNDERLAY. ROCK TYPE SPECIFICATION TO BE IN ACCORDANCE WITH LANDSCAPE DRAWINGS.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	AMENDED CULVERT UNDER LOT 1337 DRIVEWAY, AMENDED CULVERT ON SECTION	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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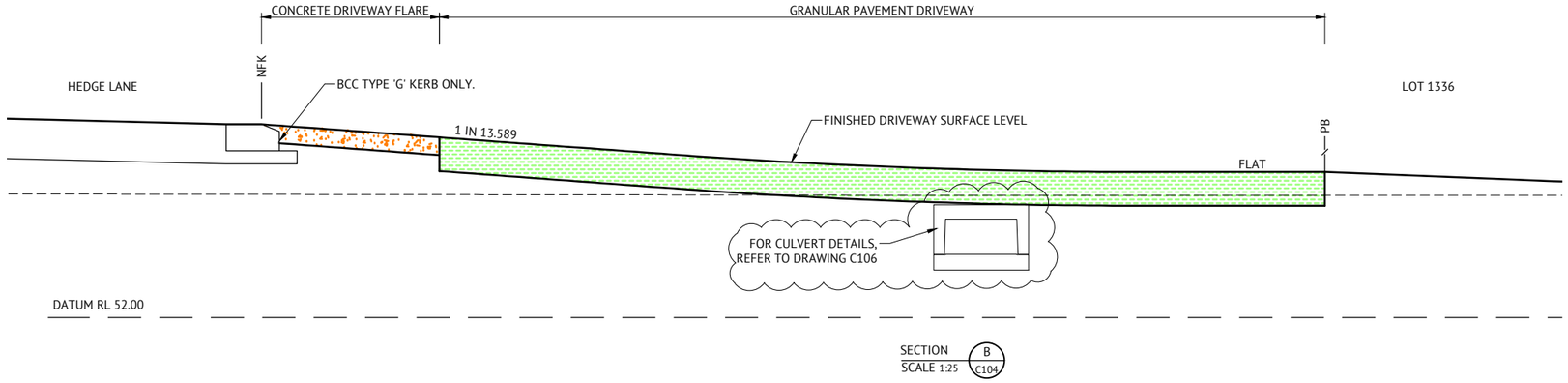
DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY RPEQ 7112 29/05/20

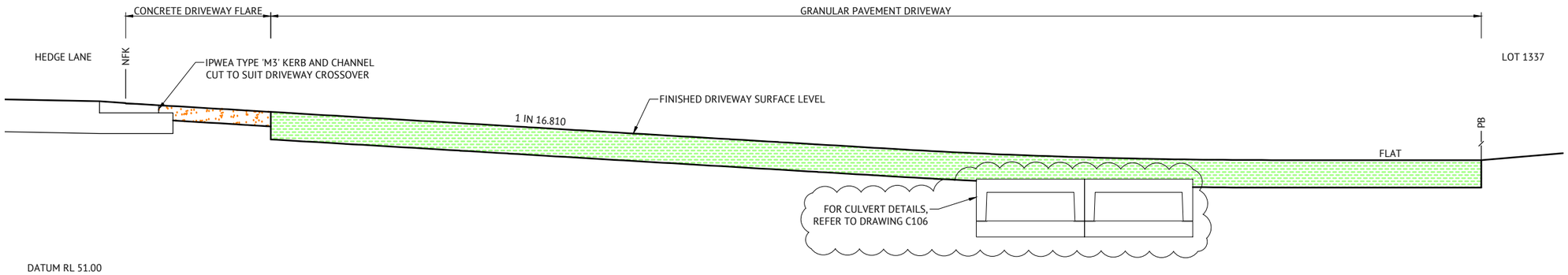
SCALE
0 0.5 1.0 1.5m
SCALE 1:25 (A1)
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRIVEWAY SECTIONS AND DETAILS - SHEET 1 OF 2

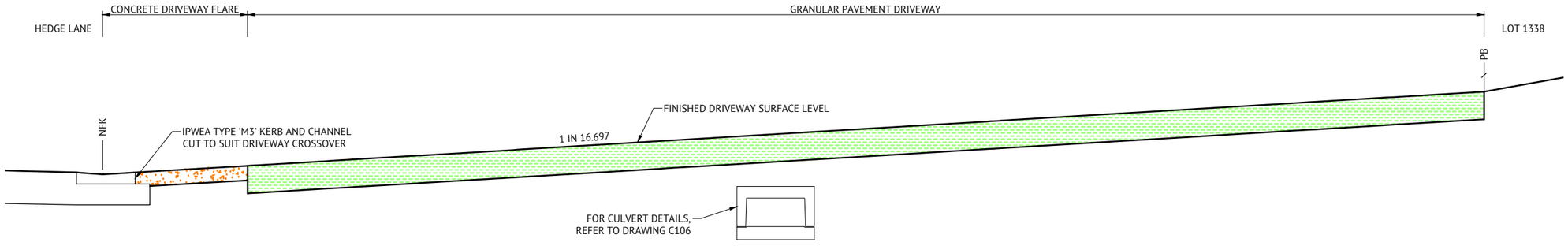
JOB CODE MIR001-05
SHEET NUMBER C104
REV B



SECTION B
SCALE 1:25 C104



SECTION C
SCALE 1:25 C104



SECTION D
SCALE 1:25 C104

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	AMENDED CULVERTS	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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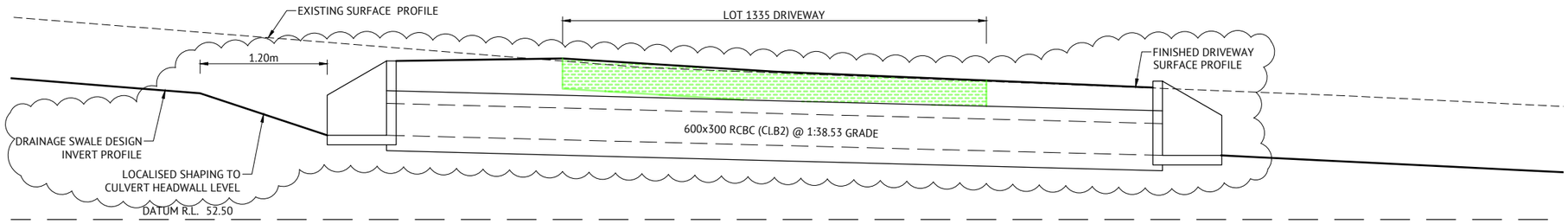
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 29/05/20 RPEQ 7112

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

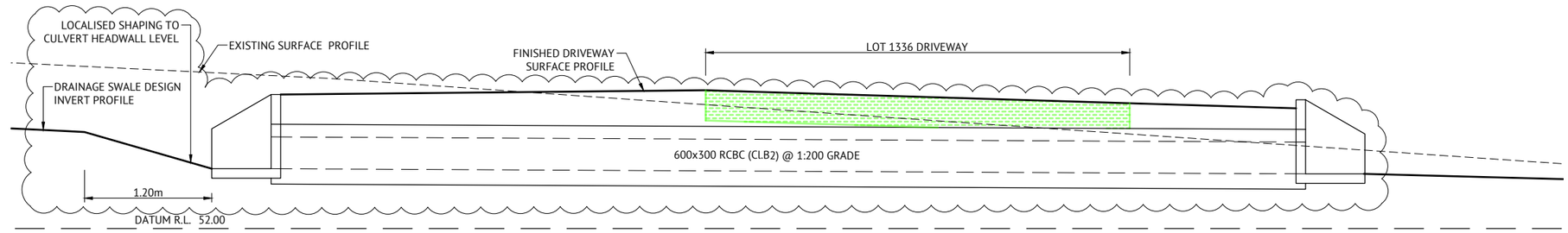
CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRIVEWAY SECTIONS AND DETAILS - SHEET 2 OF 2

JOB CODE MIR001-05
SHEET NUMBER C105
REV B

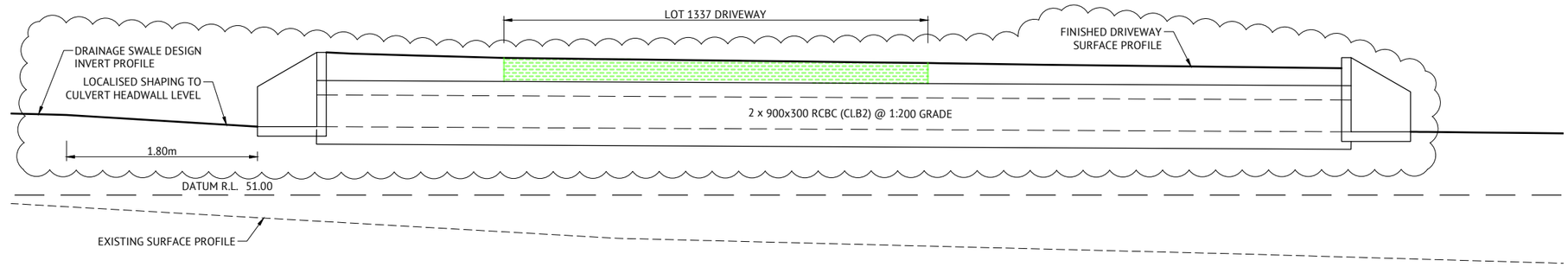
CULVERT DETAILS	
CULVERT SIZE AND CLASS	600x300 RCBC CLASS B2
LENGTH	7.32m
USIL	53.294
DSIL	53.104
DESIGN FLOW (+20% BLOCKAGE FACTOR)	Q_{max}: 0.210637
VELOCITY	2.3501m/s
HEADWATER DEPTH (Q_{100})	53.6890m
TAILWATER DEPTH (Q_{100})	53.2534m



CULVERT DETAILS	
CULVERT SIZE AND CLASS	600x300 RCBC CLASS B2
LENGTH	9.76m
USIL	52.565
DSIL	52.516
DESIGN FLOW (+20% BLOCKAGE FACTOR)	Q_{max}: 0.313867
VELOCITY	1.7439m/s
HEADWATER DEPTH (Q_{100})	53.1533m
TAILWATER DEPTH (Q_{100})	52.8160m



CULVERT DETAILS	
CULVERT SIZE AND CLASS	2 x 900x300 RCBC CLASS B2
LENGTH	9.76
USIL	51.645
DSIL	51.596
DESIGN FLOW (+20% BLOCKAGE FACTOR)	Q_{max}: 0.606260
VELOCITY	1.5138m/s
HEADWATER DEPTH (Q_{100})	52.0306m
TAILWATER DEPTH (Q_{100})	51.8185m



FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
29/05/20	B	AMENDED CULVERT DETAILS AND CULVERT SECTIONS	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 29/05/20 RPEQ 7112

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE DRIVEWAY CULVERT SECTIONS

JOB CODE MIR001-05
SHEET NUMBER C106
REV B

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
- FEATURE FENCE ON TOP OF RETAINING WALL BY LANDSCAPER
- 58.25 × — FOOTPATH SPOT LEVEL
- ZERO LOT LINE
- PROPOSED FUTURE DRIVEWAY LOCATION
- STAGE BOUNDARY
- SS Ø150 — SUBSOIL DRAIN & SIZE. REFER DETAIL ON DWG C208.
- 300mm DEEP COMPACTED GYPSUM AMELIORATED MATERIAL LAYER AT EARTHWORKS LEVEL. PROVIDE 10T/ha/300mm THICKNESS GYPSUM MIXING APPLICATION RATE FOR AMELIORATION TO ADDRESS DISPERSIVE SOILS

LEGEND - EXISTING

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

RETAINING WALL SHOP DRAWINGS

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

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

RETAINING WALL DESIGN:

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

RETAINING WALL SUBSOIL DRAINAGE OUTLET DESIGN:

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

NOTES

1. REFER BULK EARTHWORKS NOTES AND DETAILS DRAWINGS.
2. PROPOSED SERVICES WITHIN THE VICINITY OF RETAINING WALLS. REFER SERVICE DRAWINGS FOR SERVICE LOCATIONS.
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.
5. FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 & C209 - EARTHWORKS NOTES AND DETAILS.

PROPERTY SERVICES UNDER RETAINING WALLS:

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

PAD MOUNTED TRANSFORMER NOTE

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	C	AMENDED RETAINING WALL HEIGHTS AND LOT 1188 PAD LEVEL, REMOVED RETAINING WALL ON LOT 1184	MM	PB
23/03/20	B	AMENDED PAD LEVELS, ADDED BATTERS AT THE BACK OF LOTS 1056 AND 1027	MM	JS
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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WEB: www.premise.com.au

DESIGNED M. MAIZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 23/06/20 RPEQ 7112

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EARTHWORKS LAYOUT PLAN - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C200
REV C

PLAN SEALING EXCLUSION

EXISTING PRECINCT 1.2B

EXISTING PRECINCT 1.1

PRECINCT 1.5A

FUTURE PRECINCT 2

HEDGE LANE

LEAF STREET

AMAZON WAY

HEDGE LANE

IVY LANE

SUBSOIL TO CONNECT TO PROPOSED MANHOLE

ORIGINAL AREA 1 CLEARING EXTENT LINE

CLEARING EXTENT LINE (2.0m FROM EARTHWORKS BATTER INTERFACE LINE)

EXISTING VEGETATION TO REMAIN

JOINS DRAWING C200

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 & C209 EARTHWORKS NOTES AND DETAILS
- REFER TO DRAWING No. C200 FOR LEGEND.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	C	AMENDED RETAINING WALL HEIGHT, LOT 1188 PAD LEVEL, AND ROAD NAME, VEGETATION CLEARING EXTENT	MM	PB
25/03/20	B	AMENDED FILL EXTENTS	KK	JS
15/11/19	A	ORIGINAL ISSUE	MM	JS

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PROJECT CERTIFIER PAT BRADY 23/06/20 RPEQ 7112

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

CLIENT MIRVAC

PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

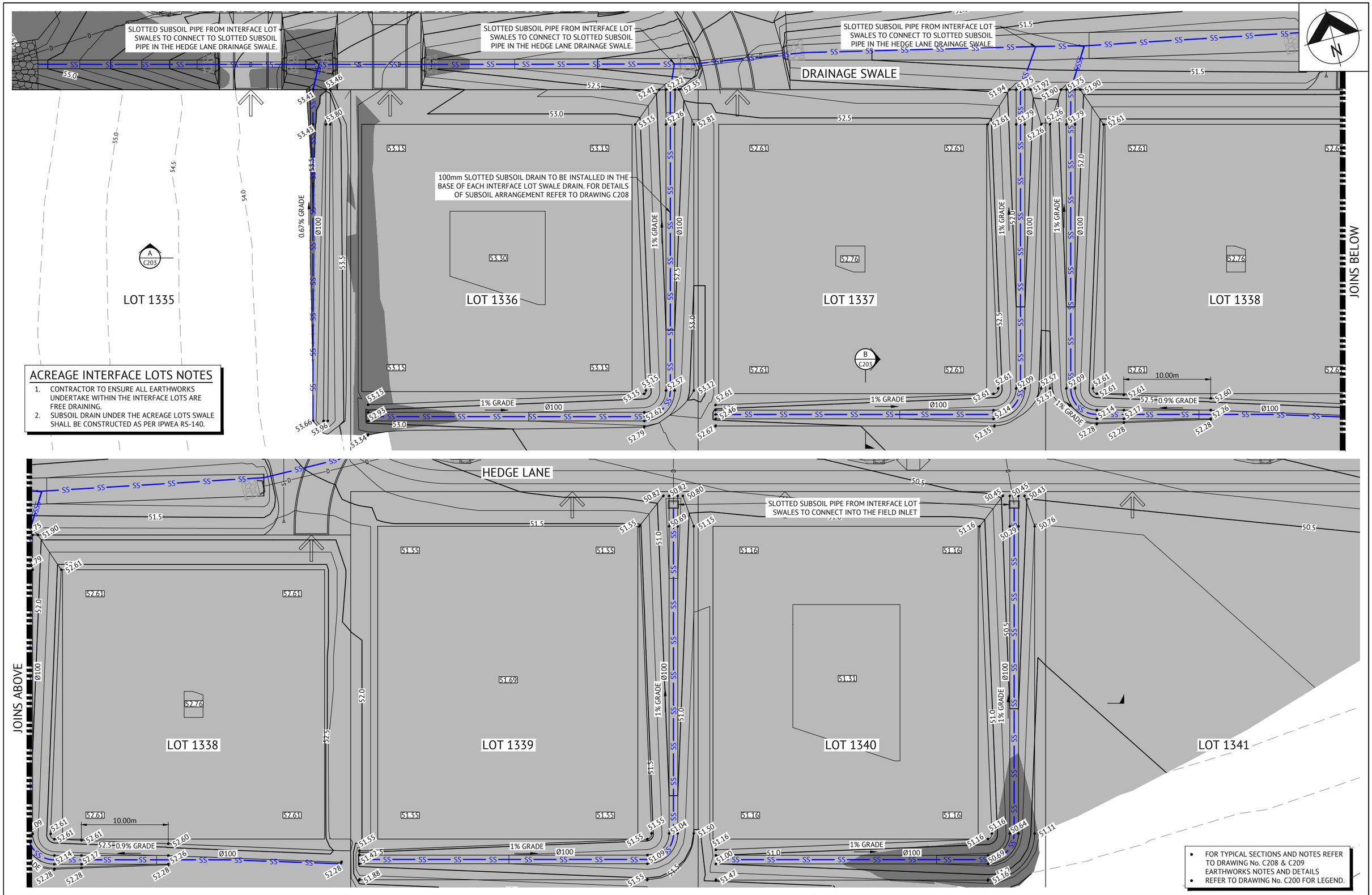
LOCATION TEVIOT ROAD, GREENBANK

SHEET TITLE EARTHWORKS LAYOUT PLAN - SHEET 2 OF 2

JOB CODE MIR001-05

SHEET NUMBER C201

REV C



ACREAGE INTERFACE LOTS NOTES

1. CONTRACTOR TO ENSURE ALL EARTHWORKS UNDERTAKE WITHIN THE INTERFACE LOTS ARE FREE DRAINING.
2. SUBSOIL DRAIN UNDER THE ACREAGE LOTS SWALE SHALL BE CONSTRUCTED AS PER IPWEA RS-140.

- FOR TYPICAL SECTIONS AND NOTES REFER TO DRAWING No. C208 & C209 EARTHWORKS NOTES AND DETAILS
- REFER TO DRAWING No. C200 FOR LEGEND.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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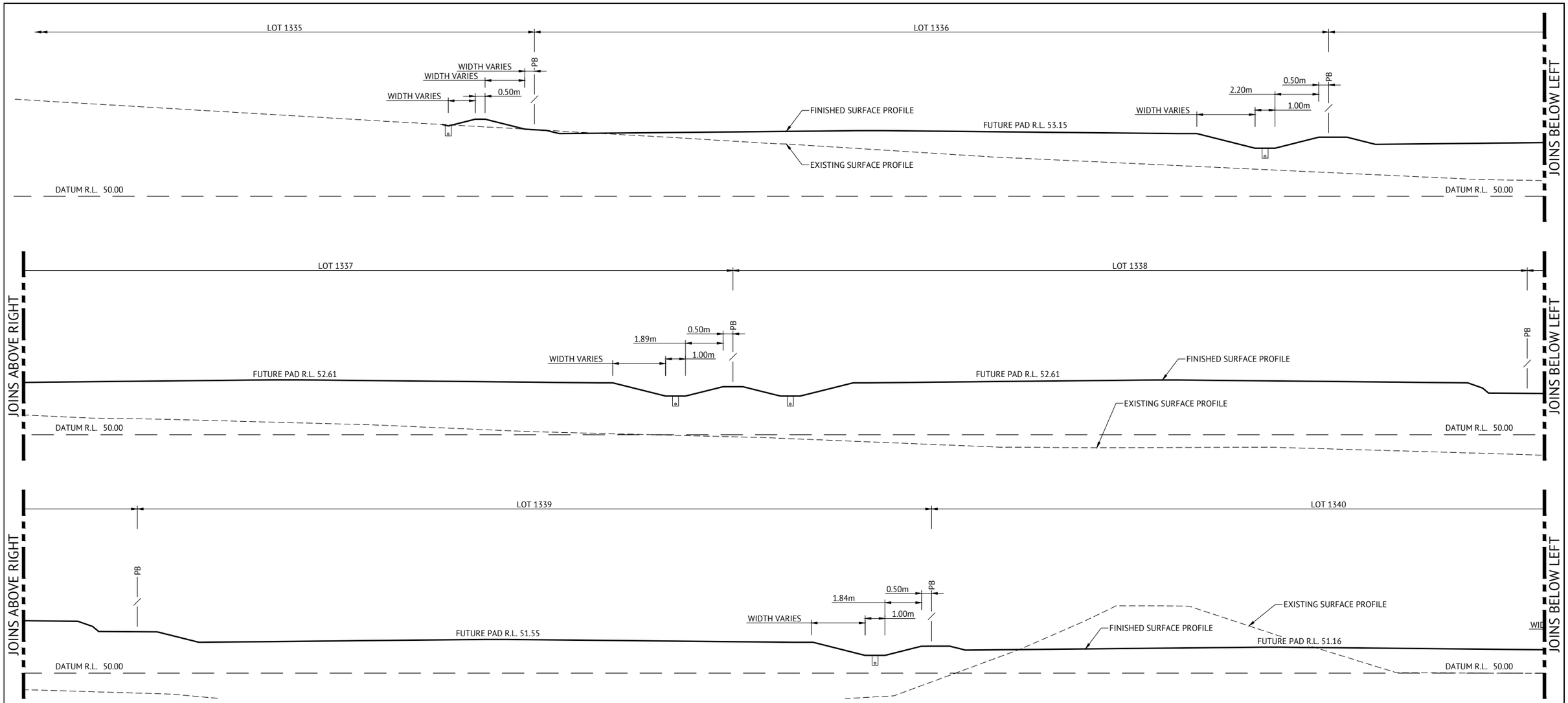
PROJECT CERTIFIER: JOSHUA STONE 15/11/19 RPEQ 15187

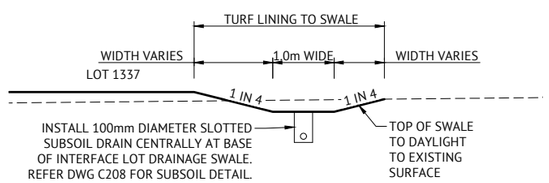
SCALE: 0 4 8 12m
SCALE 1:200 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: INTEFACE LOTS EARTHWORKS PLAN

JOB CODE: MIR001-05
SHEET NUMBER: C202
REV: A



A C202 SECTION
SCALE 1:100



B C202 SECTION
SCALE 1:50

TYPICAL SECTION OF INTERFACE LOT SWALES

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE INTERFACE LOTS EARTHWORKS SECTIONS AND DETAILS

JOB CODE MIR001-05
SHEET NUMBER C203
REV A

TEVIOT ROAD

JOINS BELOW

E C205

D C205

C C205

G C205

F C205

DIVERSION BUND

CONSTRUCT EARTHWORKS DIVERSION TO EXISTING TEVIOT SWALE

EXISTING POWER POLE

EXISTING TEVIOT SWALE

PROPOSED ACOUSTIC FENCE. REFER TO DRAWING C313 FOR DETAILS

1200X300mm RCBC UNDER ACOUSTIC FENCE.
USIL: 57.30
DSIL: 56.51
LENGTH: 4.88m

INSTALL d_{50} = 200mm MORTARED STONE PITCHING IN ACCORDANCE WITH LCC SPECIFICATIONS

ROCK SCOUR PROTECTION BY CIVIL. d_{50} = 200mm PLACED ROCK, 400mm THICKNESS ON GEOFABRIC UNDERLAY. ROCK TYPE SPECIFICATION TO BE IN ACCORDANCE WITH LANDSCAPE DRAWINGS.

LOT 1035

LOT 1028

LOT 1027

LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- d_{50} = 200mm MORTARED STONE PITCHING IN ACCORDANCE WITH LCC SPECIFICATIONS
- 12.0 FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.10m)
- 58.25 SPOT LEVEL

LEGEND - EXISTING

- 12.0 EXISTING MAJOR CONTOURS (0.50m)

LANDSCAPING NOTE:

CIVIL COORDINATOR TO COORDINATE WITH LANDSCAPE CONTRACTOR TO ENSURE ALL AREAS WITH PLANTING ARE APPROPRIATE FOR HANDOVER. REFER TO LANDSCAPE DRAWINGS FOR PLANTING AREAS.

TEVIOT ROAD

EXISTING POWER POLE

TEVIOT SWALE CENTERLINE TO DAYLIGHT TO EXISTING VERGE LEVELS AT 0.133%

LEVEL FLOW SPREADER. END OF SWALE TO DRAIN TOWARDS LOT 1335 AT 1% CROSSFALL

LOT 1035

JOINS ABOVE

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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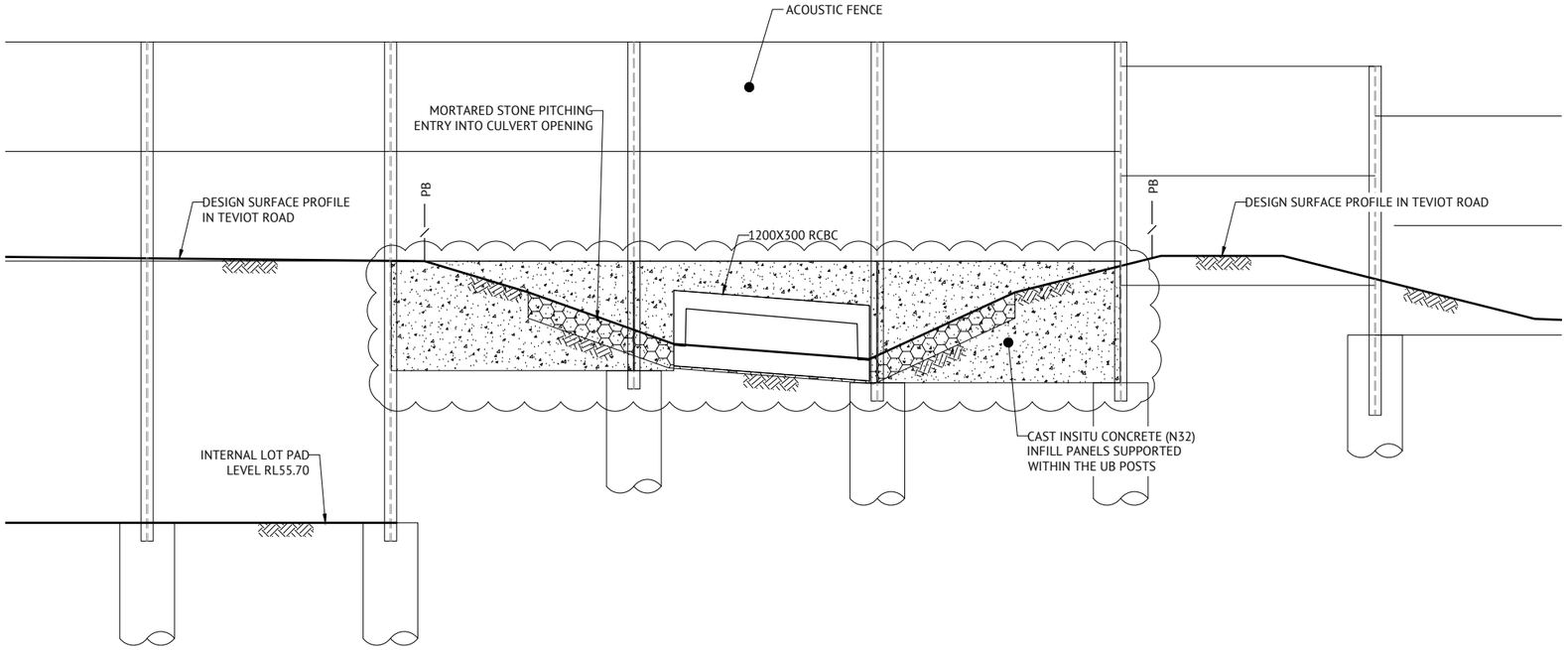
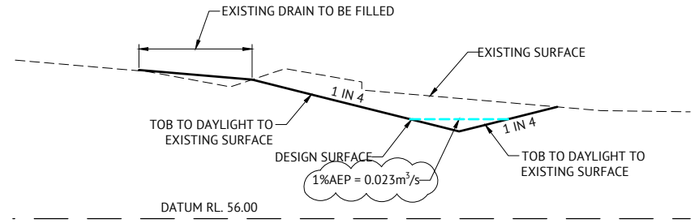
SCALE 0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE TEVIOT ROAD SWALE LAYOUT PLAN

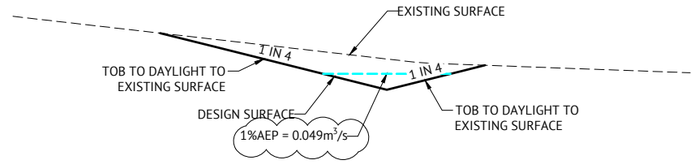
JOB CODE MIR001-05
SHEET NUMBER C204
REV A



C SECTION
C204 SCALE 1:25



D SECTION
C204 SCALE 1:25

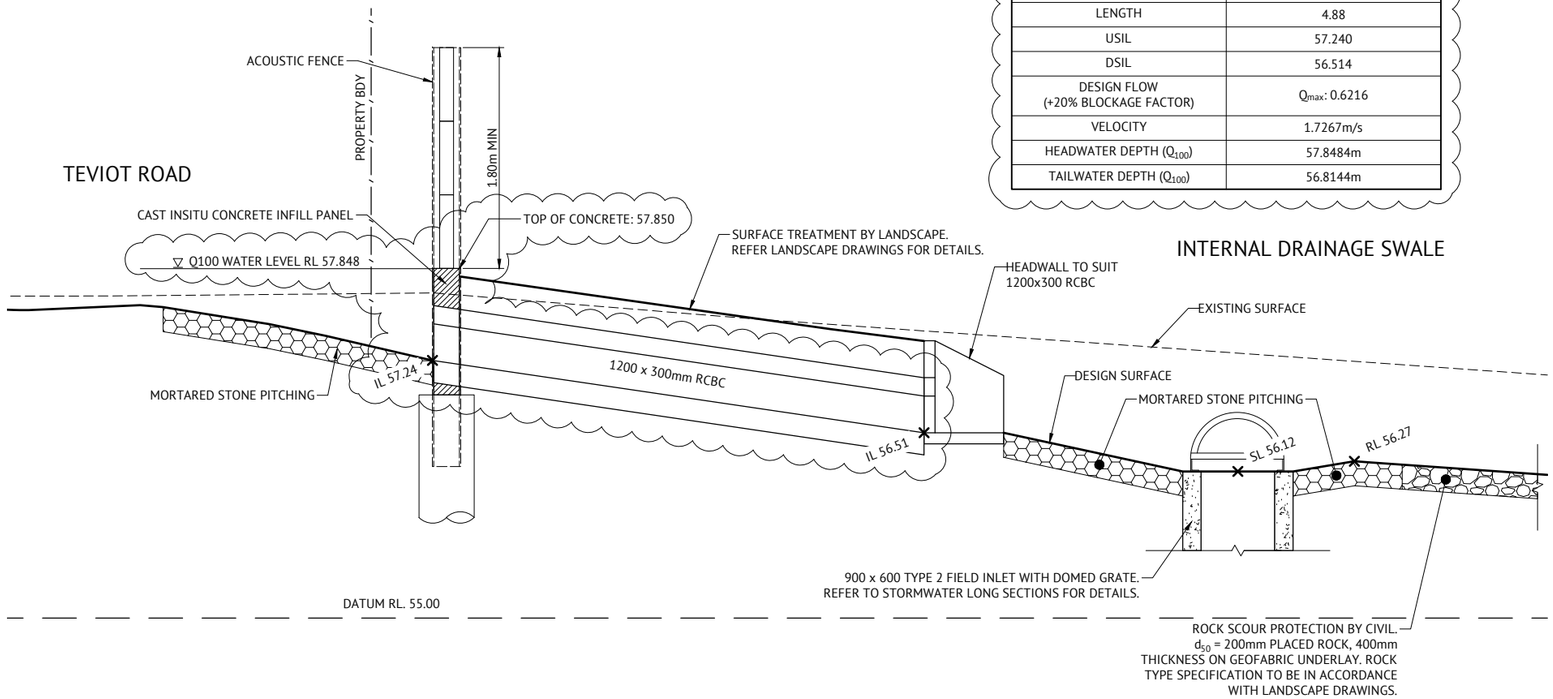


E SECTION
C204 SCALE 1:25

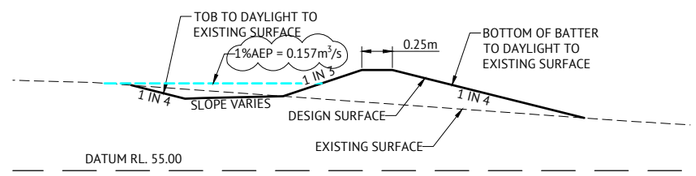
CULVERT DETAILS

CULVERT SIZE AND CLASS	1200x300 RCBC CLASS B1
LENGTH	4.88
USIL	57.240
DSIL	56.514
DESIGN FLOW (+20% BLOCKAGE FACTOR)	Q_{max}: 0.6216
VELOCITY	1.7267m/s
HEADWATER DEPTH (Q_{100})	57.8484m
TAILWATER DEPTH (Q_{100})	56.8144m

INTERNAL DRAINAGE SWALE



G SECTION
C204 SCALE 1:25



F SECTION
C204 SCALE 1:25

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
29/05/20	B	ADDED CULVERT DETAILS AND Q100 WATER LVL ON SECTIONS, AMENDED CULVERT AND CONCRETE BEAM	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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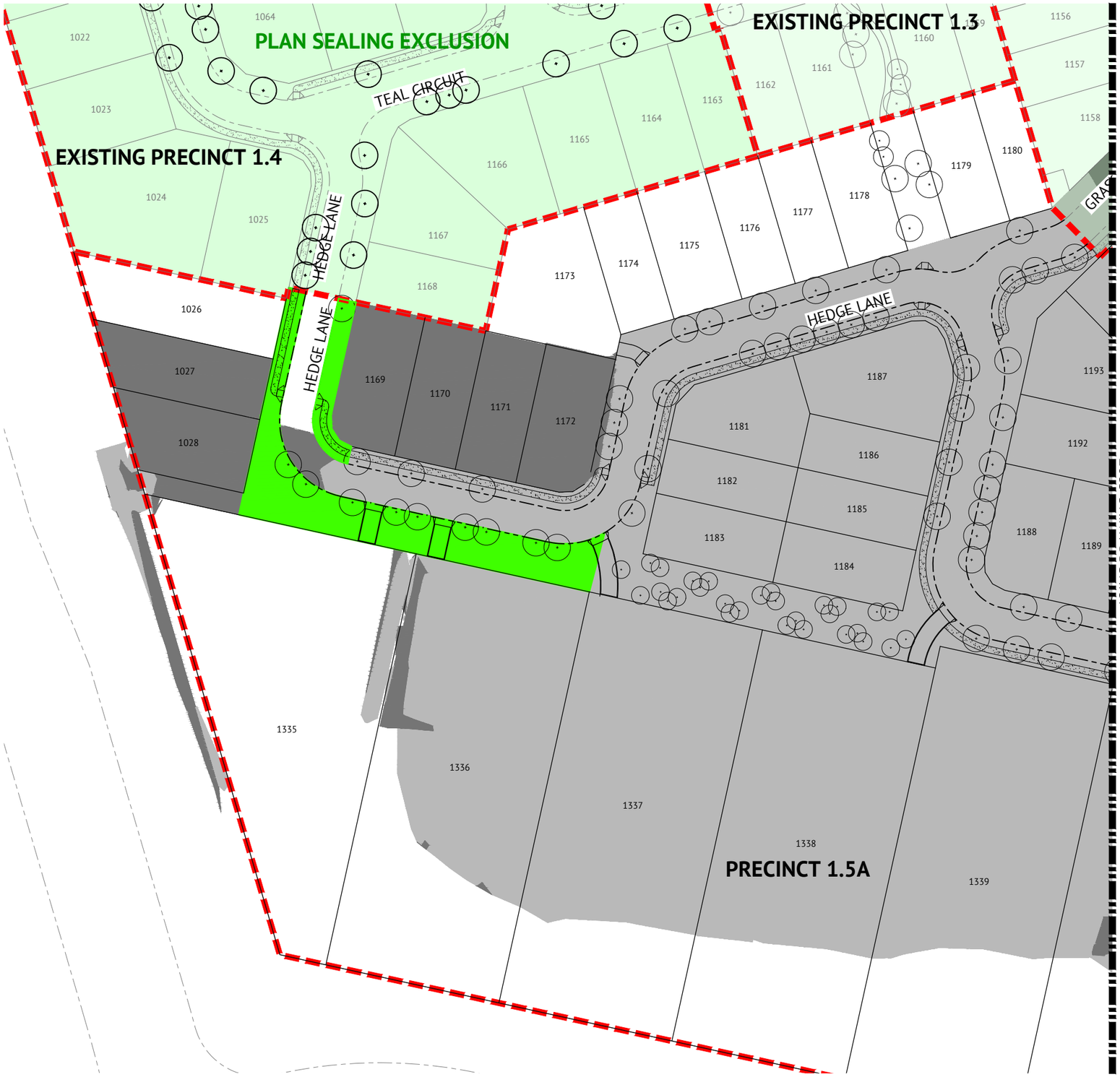
SCALE 0 2.5 5 7.5m
SCALE 1:125 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE TEVIOT ROAD SWALE SECTIONS AND DETAILS

JOB CODE MIR001-05
SHEET NUMBER C205
REV B



N

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 DESIGN EARTHWORKS LEVEL AND RECOMPACTED TO LEVEL ONE CERTIFICATION.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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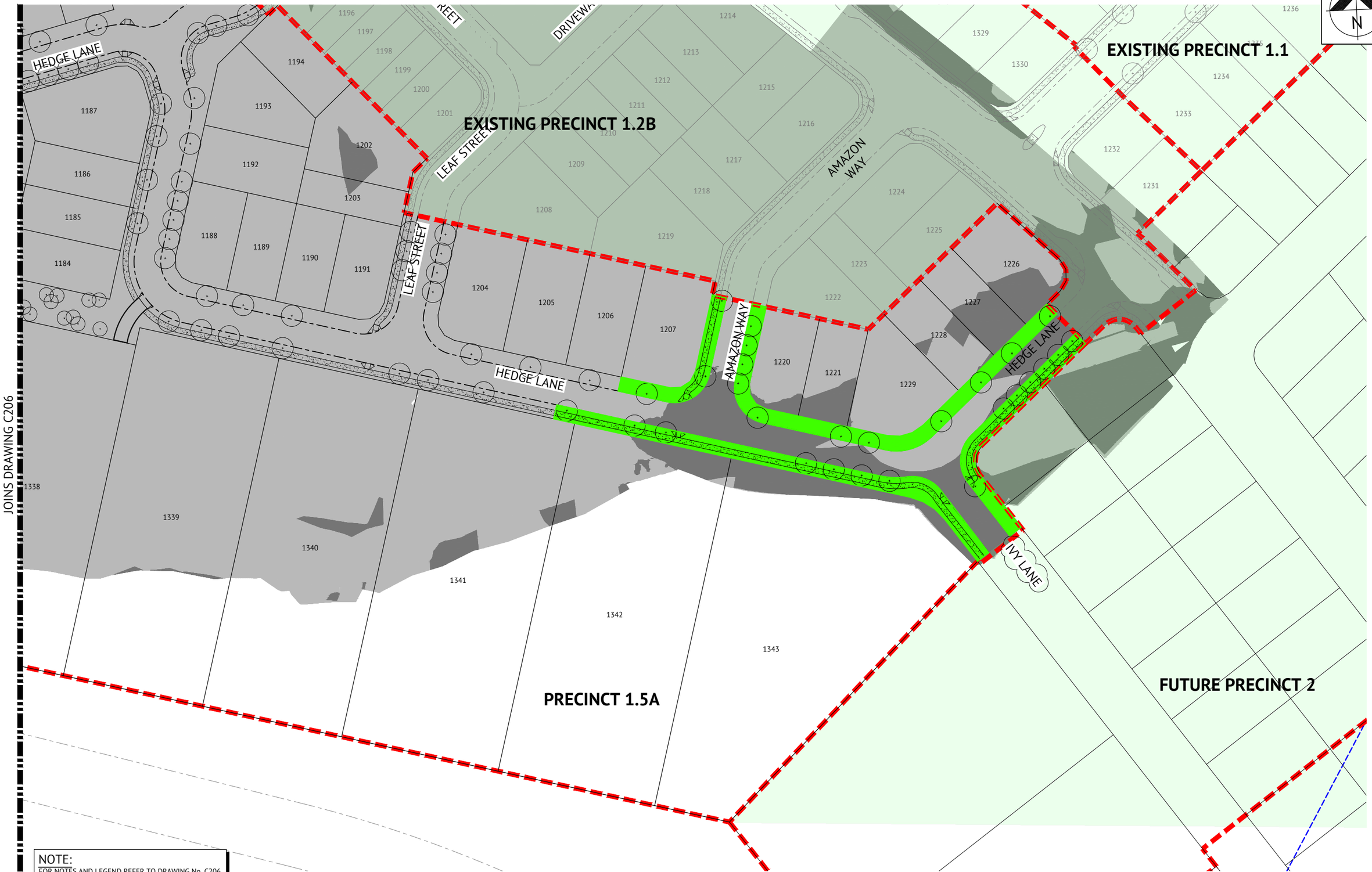
PROJECT CERTIFIER 15/11/19
JOSHUA STONE RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EARTHWORKS SUBGRADE ROCK PREPARATION PLAN - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C206
REV A



NOTE:
FOR NOTES AND LEGEND REFER TO DRAWING No. C206

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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DESIGNED: M. MAIZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY RPEQ 7112 23/06/20

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EARTHWORKS SUBGRADE ROCK PREPARATION PLAN - SHEET 2 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C207
REV: 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.
6. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION FENCING ALONG THE FULL PERIMETER BOUNDARY INCLUDING APPROPRIATE SIGNAGE.

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 SPECIFICATION SET OUT IN THE GEOTECHNICAL REPORTS TITLED "RECOMMENDATIONS FOR FILLING OPERATIONS AND THE USE OF SILT FROM THE LOWER DAM" AND "RECOMMENDED FILLING EARTHWORKS SPECIFICATION" PREPARED BY MORRISON GEOTECHNIC DATED 28 JUNE 2019.
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. 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'.
8. ALL COMPLIANCE TESTING SHALL BE CARRIED OUT BY THE CLIENT'S GEOTECHNICAL ENGINEER AND SHALL BE ARRANGED THROUGH THE SUPERINTENDENT. ABY/ALL TESTING NECESSARY FOR GUIDANCE OR RE-TESTS WILL BE AT THE COST OF THE CONTRACTOR.
9. 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.
10. NO DEMOLITION MATERIAL TO BE USED AS FILL MATERIAL.
11. WHERE UNSUITABLE MATERIAL IN AREAS OF FILL IS ENCOUNTERED, THIS WILL BE TREATED AS SET OUT IN THE EARTHWORK SPECIFICATION.
12. 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.
13. 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:

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

TURF

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

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

TRENCH SPOIL

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

EXCAVATION IN ROCK

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

EVERLEIGH EARTHWORKS TOLERANCE TABLE

ITEM	TOLERANCE
EARTHWORKS IN ALLOTMENTS AND VERGES[a]	EWL or FSL +/- 50mm
CUT BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 150mm[b]
FILL BATTERS (OTHER THAN IN LOTS)	EWL or FSL +/- 300mm[b]
EARTHWORKS IN PARKS	EWL or FSL +/- 50mm

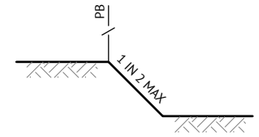
[a] TOLERANCE IS -0mm / +50mm WHERE ADJACENT DRAINAGE ELEMENT.
[b] MEASURED FROM THE AVERAGE SLOPE PLANE.

TOLERANCE NOTES

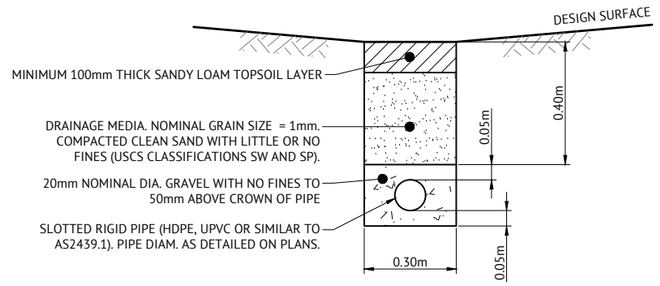
1. EARTHWORKS LEVEL (EWL) IS 100mm BELOW FINISHED SURFACE LEVEL (FSL).
2. FINISHED SURFACE LEVEL (FSL) IS TOP OF TURF / STABILISED TOPSOIL LEVEL.
3. ROADWORKS SUBGRADE, PAVEMENT, ASPHALT CONSTRUCTION LEVEL TOLERANCES AS PER LCC PSP No. 5.
4. STORMWATER DRAINAGE CONSTRUCTION LEVEL TOLERANCES AS PER LCC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

DISPERSIVE SOILS MANAGEMENT NOTES

1. STABILISATION OF DISTURBED AREAS AND MANAGEMENT OF EROSION AND SEDIMENT SHALL BE UNDERTAKEN IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLANS IN THIS DRAWING SET.
2. CONTRACTOR MUST CONSTRUCT AND ESTABLISH THE EROSION AND SEDIMENT CONTROL DEVICES, CONSTRUCTION WATER HOLDING DAM AND HES BASIN PRIOR TO COMMENCING EARTHWORKS OPERATION.
3. ALL DISTURBED AREAS SHALL BE STABILISED AS SOON AS PRACTICABLE (BUT NOT MORE THAN 10 DAYS) FOLLOWING FINALISATION OF LEVELS. STABILISATION TO BE IN ACCORDANCE WITH DRAWING C405 - EROSION & SEDIMENT CONTROL - STABILISATION PHASE.



TYPICAL SECTION FOR BATTERS BETWEEN LOTS
SCALE 1:20



TYPICAL SUBSOIL DRAIN UNDER SWALES DETAIL
N.T.S.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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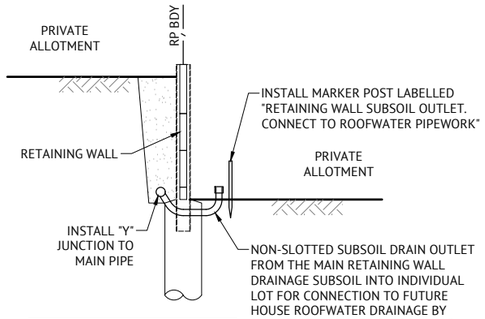
DESIGNED: M. MAJZNER
CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE RPEQ 15187 15/11/19
SCALE: NTS
ORIGINAL SHEET SIZE A1

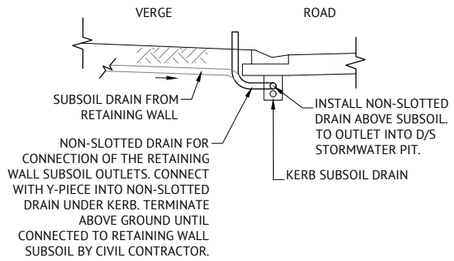
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: EARTHWORKS NOTES AND DETAILS - SHEET 1 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C208
REV: A



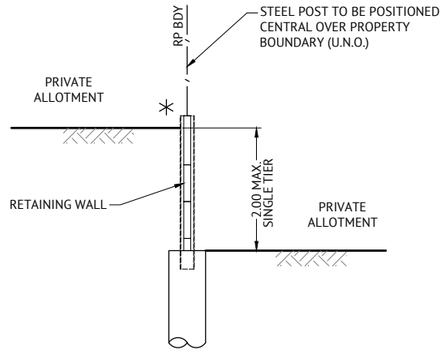
TYPICAL RETAINING WALL SUBSOIL OUTLET TO ALLOTMENTS

N.T.S.



TYPICAL RETAINING WALL SUBSOIL OUTLET TO ROAD

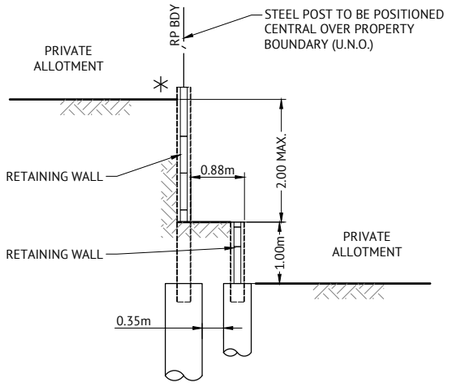
N.T.S.



TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

0.4m-2m MAX HIGH

N.T.S.

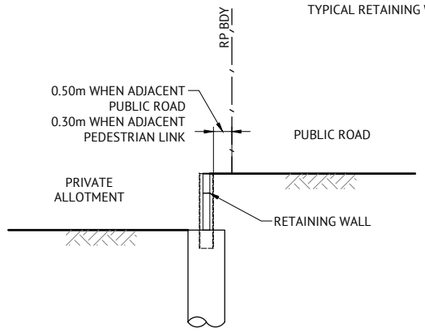


TYPICAL RETAINING WALL DETAIL INTER ALLOTMENT

2m-3m MAX HIGH

N.T.S.

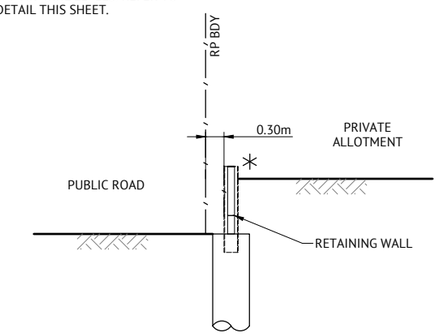
✳ WHERE WALL IS RETAINING PRIVATE ALLOTMENT PROVIDE TYPICALLY 100mm ADDITIONAL HEIGHT ABOVE FINISHED PAD LEVEL TO ACCOMMODATE FUTURE BUILDING SLAB AND TOP SOIL LEVELS. REFER TO TYPICAL RETAINING WALL LOT FINISHING DETAIL THIS SHEET.



TYPICAL RETAINING WALL DETAIL

ROAD ADJACENT TO LOT WHERE ROAD LEVEL IS HIGHER

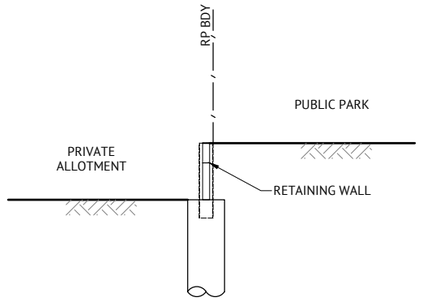
N.T.S.



TYPICAL RETAINING WALL DETAIL

ROAD ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

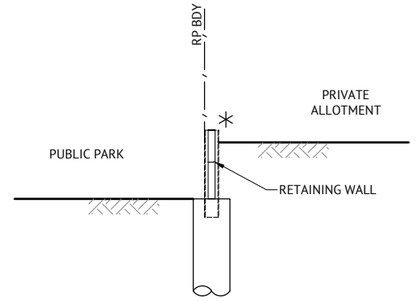
N.T.S.



TYPICAL RETAINING WALL DETAIL

PARK ADJACENT TO LOT WHERE PARK LEVEL IS HIGHER

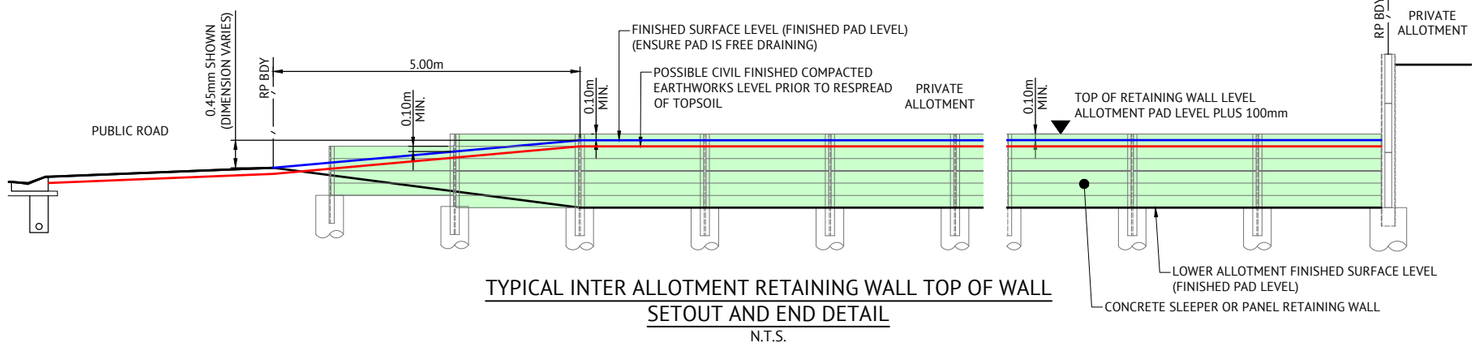
N.T.S.



TYPICAL RETAINING WALL DETAIL

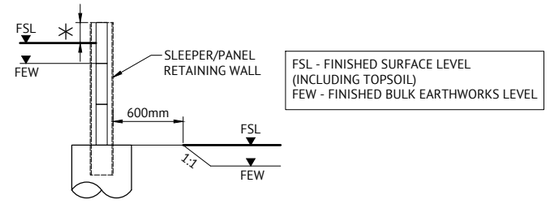
PARK ADJACENT TO LOT WHERE LOT LEVEL IS HIGHER

N.T.S.



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

N.T.S.



TYPICAL RETAINING WALL TOP AND BOTTOM FINISHING LEVEL DETAIL

N.T.S.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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CHECKED	J. STONE
PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	JOSHUA STONE 15/11/19 RPEQ 15187
SCALE	NTS
ORIGINAL SHEET SIZE	A1

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EARTHWORKS NOTES AND DETAILS - SHEET 2 OF 2

JOB CODE	
MIR001-05	
SHEET NUMBER	REV
C209	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

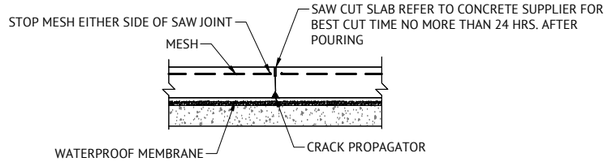
1. THE CONCRETE PAVEMENT HAS BEEN DESIGNED BASED ON A CBR 5 AND IS SUBJECT TO CONFIRMATION UPON RECEIPT OF CBR TEST RESULT AT TIME OF CONSTRUCTION.
2. CONCRETE PAVEMENT SPECIFICATION:

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

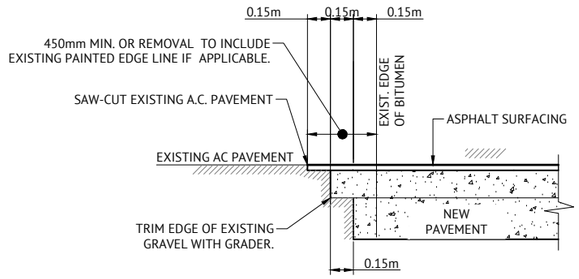
3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AS1379, AS3600 AND AS3610.
4. PROJECT ASSESSMENT OF STRENGTH IN ACCORDANCE WITH AS3600 SHALL BE ADOPTED FOR SAMPLING AND TESTING. THE CONTRACTOR SHALL PAY ALL TESTING COSTS.
5. CONSTRUCTION JOINTS SHALL BE MADE ONLY AT APPROVED LOCATIONS.
6. ALL JOINTS ARE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

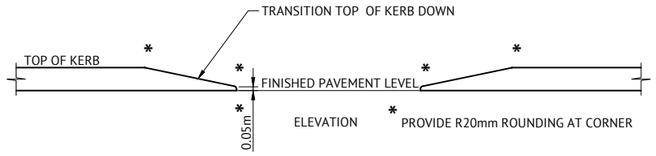


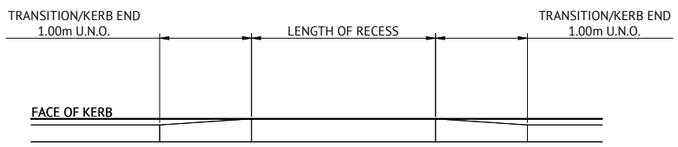
SAWCUT JOINT (S.J.)



TYPICAL PAVEMENT CUT-BACK DETAIL

N.T.S

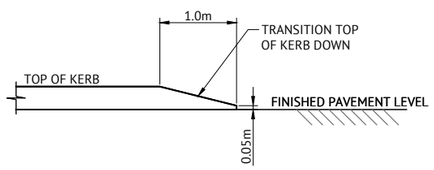




PLAN

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	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE 15/11/19 RPEQ 15187

SCALE: NTS

ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ROADWORKS TYPICAL SECTIONS & NOTES

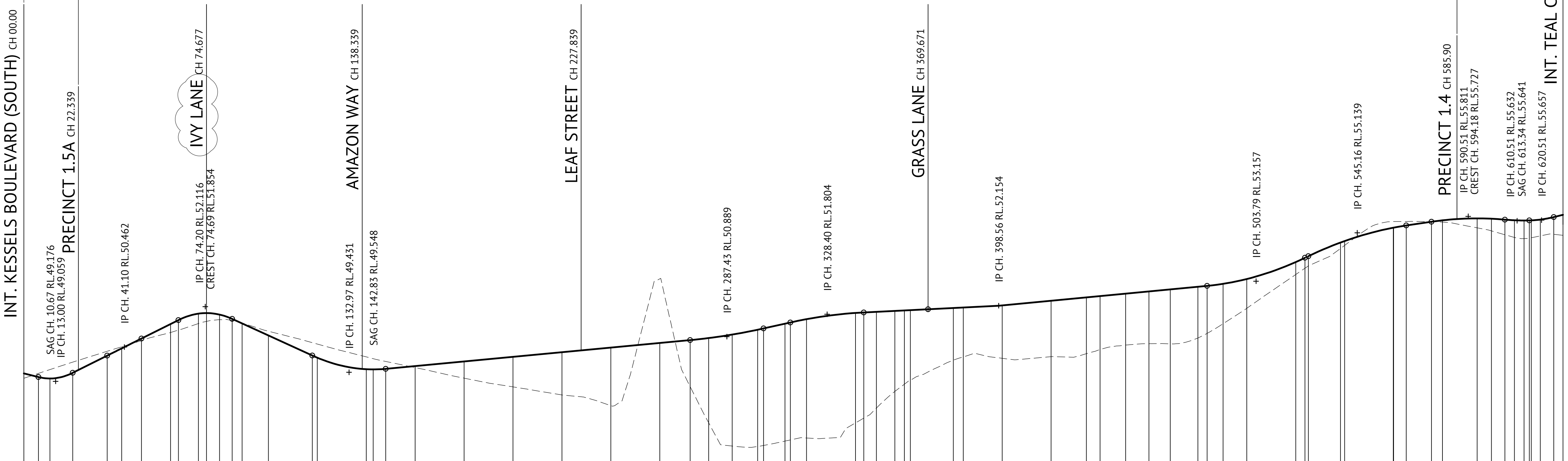
JOB CODE: MIR001-05
SHEET NUMBER: C300
REV: A

EXISTING PRECINCT 1.2B | PRECINCT 1.5A | EXISTING PRECINCT 1.4

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	HEDGE LANE CH. 22.339 - CH. 585.90
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 OF PAVEMENT CONSTRUCTION.



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data: R18m, R13.75m, R-15m, R-13.75m, R-15m, R13.75m, R13.75m, R-13.75m

Vertical Geometry Grade (%) / Vertical Grade Length (m): -2.5% 13m; 4.99% 28.1m; 5% 33.1m; -4.57% 58.77m; 0.94% 154.46m; 2.23% 40.97m; 0.5% 70.16m; 0.95% 105.23m; 4.79% 41.37m; 1.48% 45.35m; -0.9% 20m; 0.25% 10m; 2.5% 8.75m

Vertical Curve Length (m) / Vertical Curve Radius (m): L 14 R 186.85; L 14 R 330034.16; L 22 R 229.97; L 30 R 544.08; L 30 R 2328.04; L 30 R 1731.34; L 40 R 1042.56; L 40 R 1209.66; L 30 R 1259.17; L 10 R 869.93; L 10 R 444.44

DATUM R.L.40.0

CHAINAGE	CUT (-)/FILL DEPTH	LHS LIP LEVEL	RHS LIP LEVEL	DESIGN SURFACE	NATURAL SURFACE
0.00	0.200			49.384	49.185
6.00	-0.152			49.234	49.386
10.67	-0.365			49.176	49.541
20.00	-0.437	49.322	49.322	49.409	49.846
34.10	-0.178	50.026	50.026	50.113	50.290
40.00	-0.065	50.320	50.320	50.407	50.472
48.10	0.083	50.725	50.725	50.812	50.729
60.00	0.348	51.320	51.320	51.407	51.059
63.20	0.411	✳	51.480	51.567	51.156
71.39	0.405		51.743	51.830	51.425
74.69	0.336		51.767	51.854	51.517
80.00	0.206		51.705	51.792	51.586
85.20	0.063		51.527	51.614	51.551
89.23	-0.017		51.342	51.429	51.446
100.00	-0.174	50.850	50.850	50.937	51.111
117.97	-0.527	50.029	50.029	50.116	50.643
120.00	-0.559	49.940	49.940	50.027	50.586
140.00	-0.504	49.468	✳	49.555	50.060
142.83	-0.440	49.461		49.548	49.988
147.97	-0.301	49.485		49.572	49.873
160.00	0.065	49.599	49.599	49.686	49.621
180.00	0.685	49.788	49.788	49.875	49.189
200.00	1.230	49.976	49.976	50.063	48.833
220.00	1.750	50.165	✳	50.252	48.502
240.00	2.376	50.354		50.441	48.065
260.00	-2.624	50.543	50.543	50.630	53.254
272.43	1.907	50.660	50.660	50.747	48.841
280.00	3.468	50.744	50.744	50.831	47.363
289.59	4.561	50.885	50.885	50.972	46.412
300.00	4.776	51.084	51.084	51.171	46.394
302.43	4.788	51.137	51.137	51.224	46.435
311.19	4.804	51.332	51.332	51.419	46.615
313.40	4.805	51.382	51.382	51.469	46.663
320.00	4.861	51.517	51.517	51.604	46.743
340.00	4.500	51.771	51.771	51.858	47.359
343.40	4.325	51.792	51.792	51.879	47.554
348.57	3.937	51.818	51.818	51.905	47.968
356.10	3.296	51.855	51.855	51.942	48.646
360.00	3.020	51.875	51.875	51.962	48.941
362.47	2.856	51.887	✳	51.974	49.118
380.00	2.133	51.975		52.062	49.929
384.07	2.025	51.995		52.082	50.057
400.00	2.166	52.081	52.081	52.168	50.002
420.00	2.289	52.272	52.272	52.359	50.070
434.41	2.305	52.409	52.409	52.496	50.191
440.00	2.185	52.462	52.462	52.549	50.364
450.44	2.103	52.562	52.562	52.649	50.546
460.00	2.141	52.653	52.653	52.740	50.599
468.70	2.232	52.736	52.736	52.823	50.591
480.00	2.099	52.844	52.844	52.931	50.832
483.79	1.947	52.880	52.880	52.967	51.020
490.30	1.632	52.962	52.962	53.049	51.417
500.00	1.198	53.160	53.160	53.247	52.049
520.00	0.512	53.854	53.854	53.941	53.429
523.79	0.428	54.028	54.028	54.115	53.687
525.16	0.401	54.094	54.094	54.181	53.780
538.30	0.245	54.652	54.652	54.739	54.494
540.00	0.180	54.714	54.714	54.801	54.621
559.90	-0.252	55.259	55.259	55.346	55.598
560.00	-0.251	55.261	55.261	55.348	55.598
565.16	-0.163	55.349	55.349	55.436	55.599
575.51	-0.003	55.502	55.502	55.589	55.592
580.00	0.073	55.561	55.561	55.648	55.575
594.18	0.388	55.640	55.640	55.727	55.339
600.00	0.498	55.627	55.627	55.714	55.216
605.51	0.618	55.590	55.590	55.677	55.059
609.40	0.702	55.563	55.563	55.650	54.948
613.34	0.747	55.554	55.554	55.641	54.895
615.51	0.726	55.557	55.557	55.644	54.918
616.30	0.714	55.560		55.647	54.933
620.00	0.667			55.678	55.011
625.51	0.707			55.782	55.075
629.26	0.840			55.875	55.035

HEDGE LANE LONGITUDINAL SECTION

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

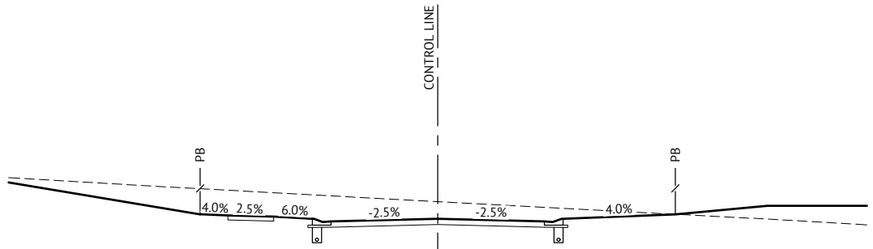
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 23/06/20 RPEQ 7112

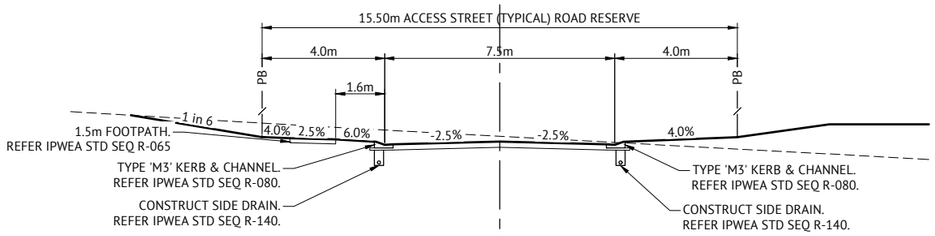
SCALE HORIZONTAL 1:1000 (A1) 0 20 40 60m
VERTICAL 1:100 (A1) 0 2 4 6m
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE HEDGE LANE LONGITUDINAL SECTIONS

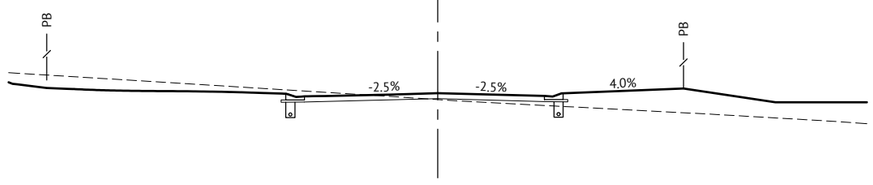
JOB CODE MIR001-05
SHEET NUMBER C301 REV B



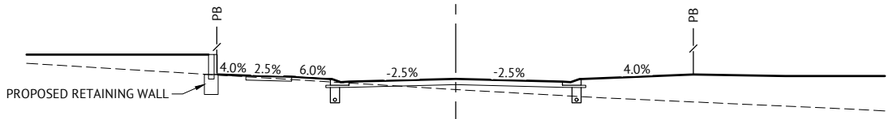
CHAINAGE 120 — DATUM R.L. 46.00



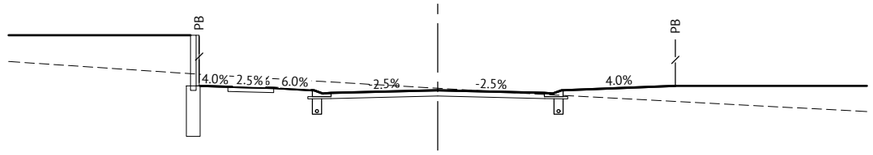
CHAINAGE 100 — DATUM R.L. 47.00



CHAINAGE 80 — DATUM R.L. 47.00

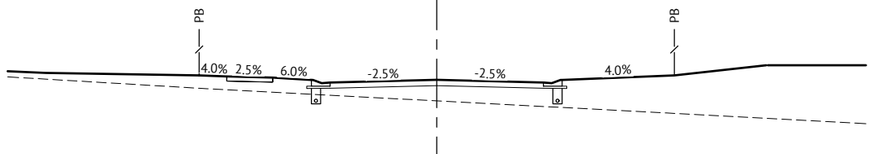


CHAINAGE 60 — DATUM R.L. 48.00

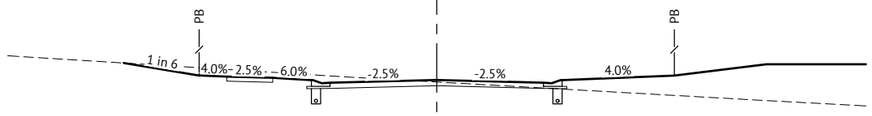


CHAINAGE 40 — DATUM R.L. 47.00

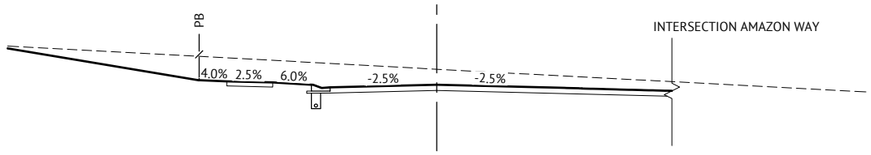
CHAINAGE 200 — DATUM R.L. 45.00



CHAINAGE 180 — DATUM R.L. 45.00



CHAINAGE 160 — DATUM R.L. 45.00



CHAINAGE 140 — DATUM R.L. 46.00

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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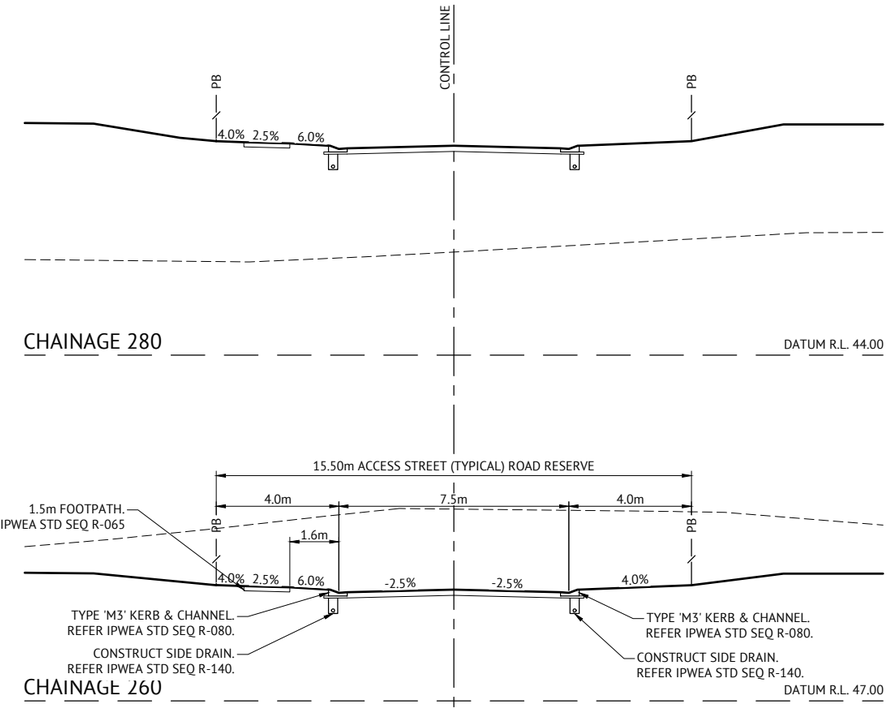
PH: (07) 3253 2222
WEB: www.premise.com.au

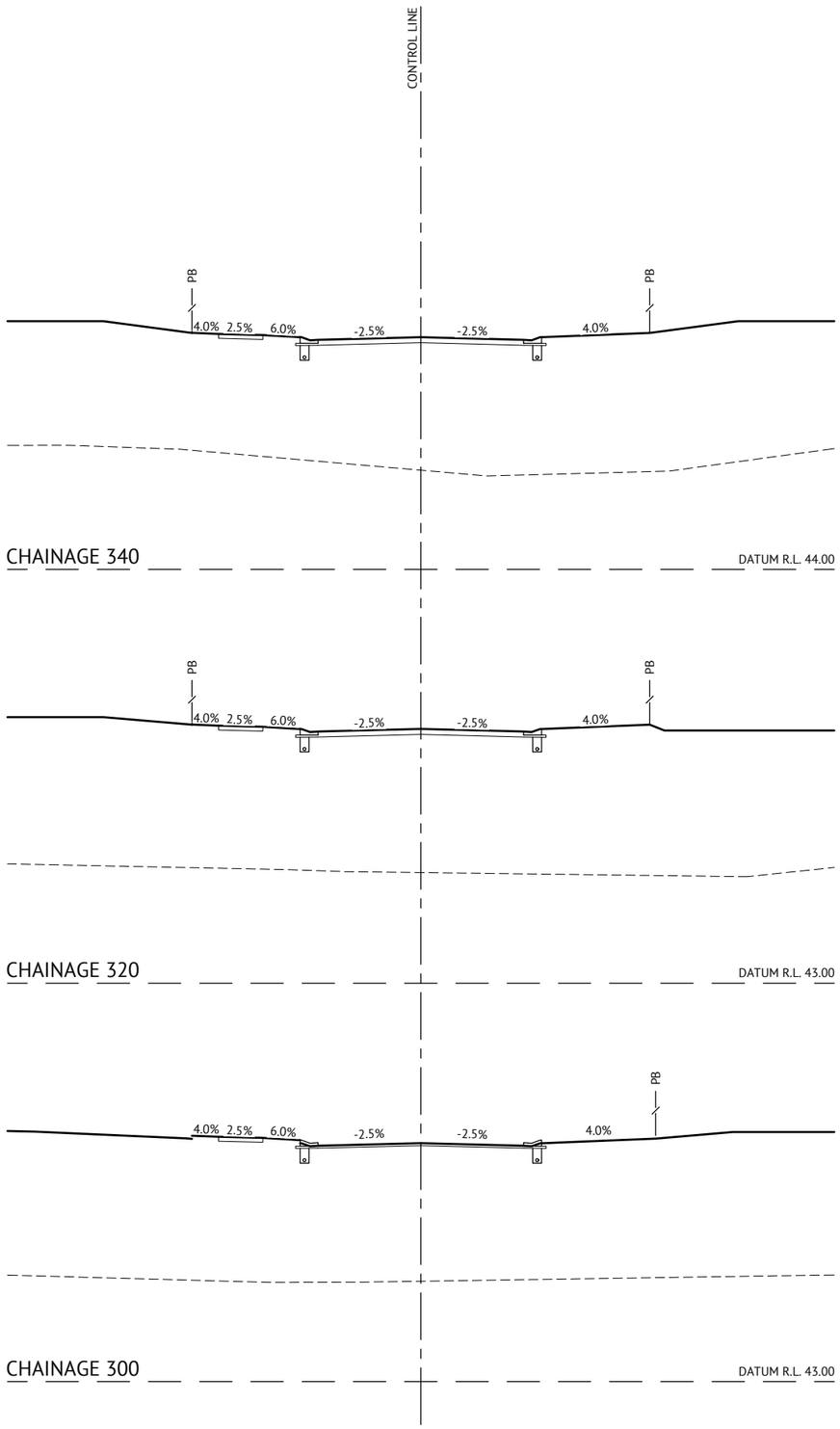
DESIGNED: M. MAJZNER
CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE — 15/11/19 — RPEQ 15187

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: HEDGE LANE CROSS SECTIONS - SHEET 1 OF 4

JOB CODE: MIR001-05
SHEET NUMBER: C302
REV: A





FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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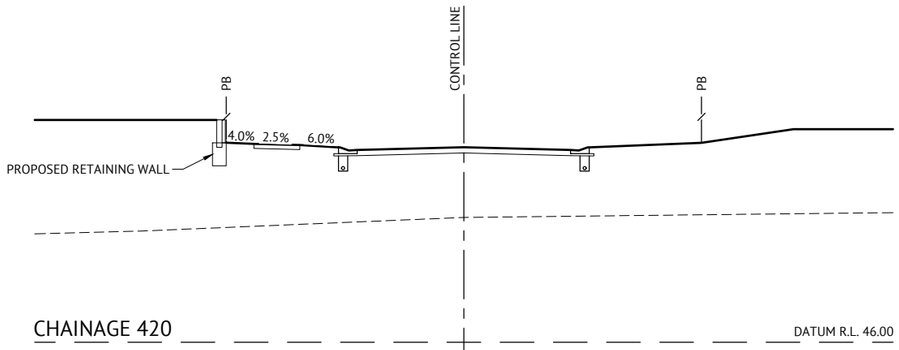
WEB: www.premise.com.au

DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

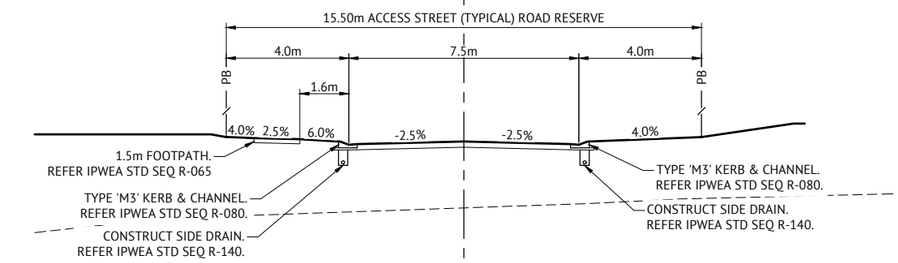
SCALE
0 2 4 6m
SCALE 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE HEDGE LANE CROSS SECTIONS - SHEET 2 OF 4

JOB CODE MIR001-05
SHEET NUMBER C303
REV A



CHAINAGE 420 DATUM R.L. 46.00



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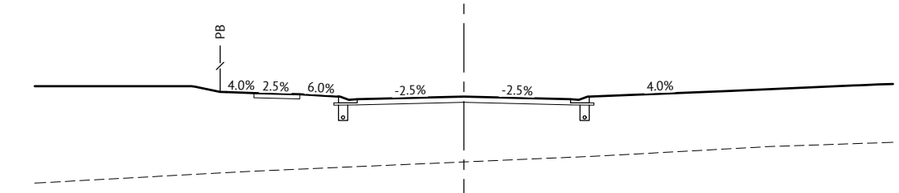

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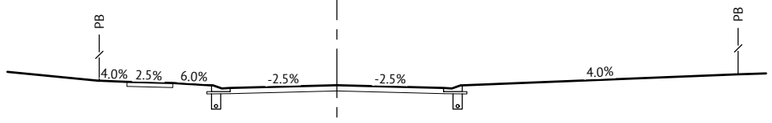

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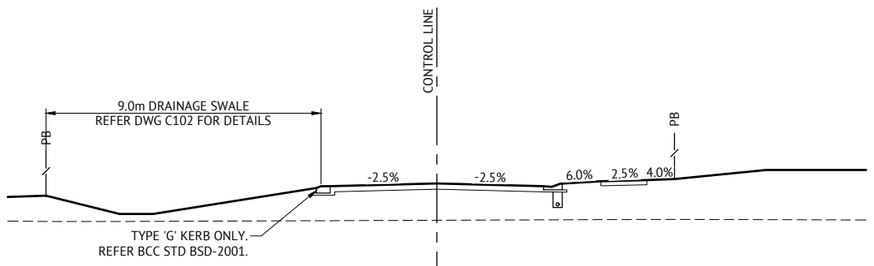

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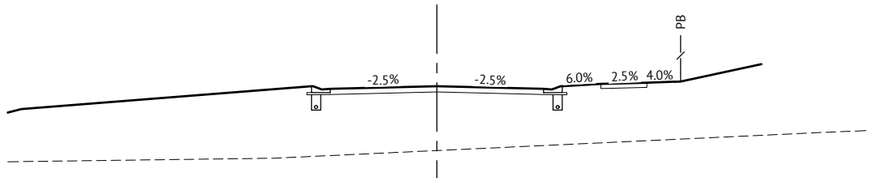
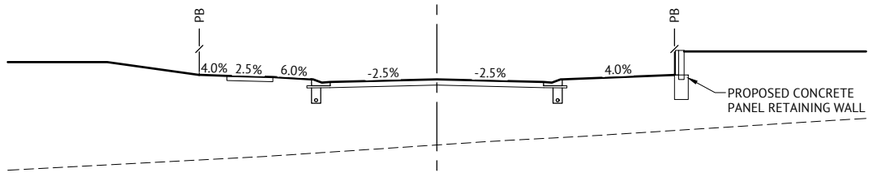
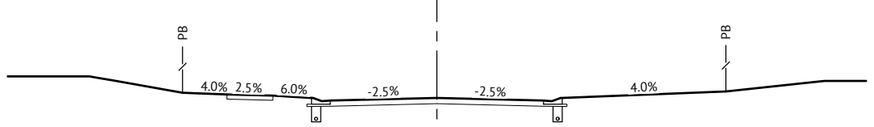


CHAINAGE 480 DATUM R.L. 47.00



CHAINAGE 460 DATUM R.L. 46.00



CHAINAGE 440 DATUM R.L. 46.00

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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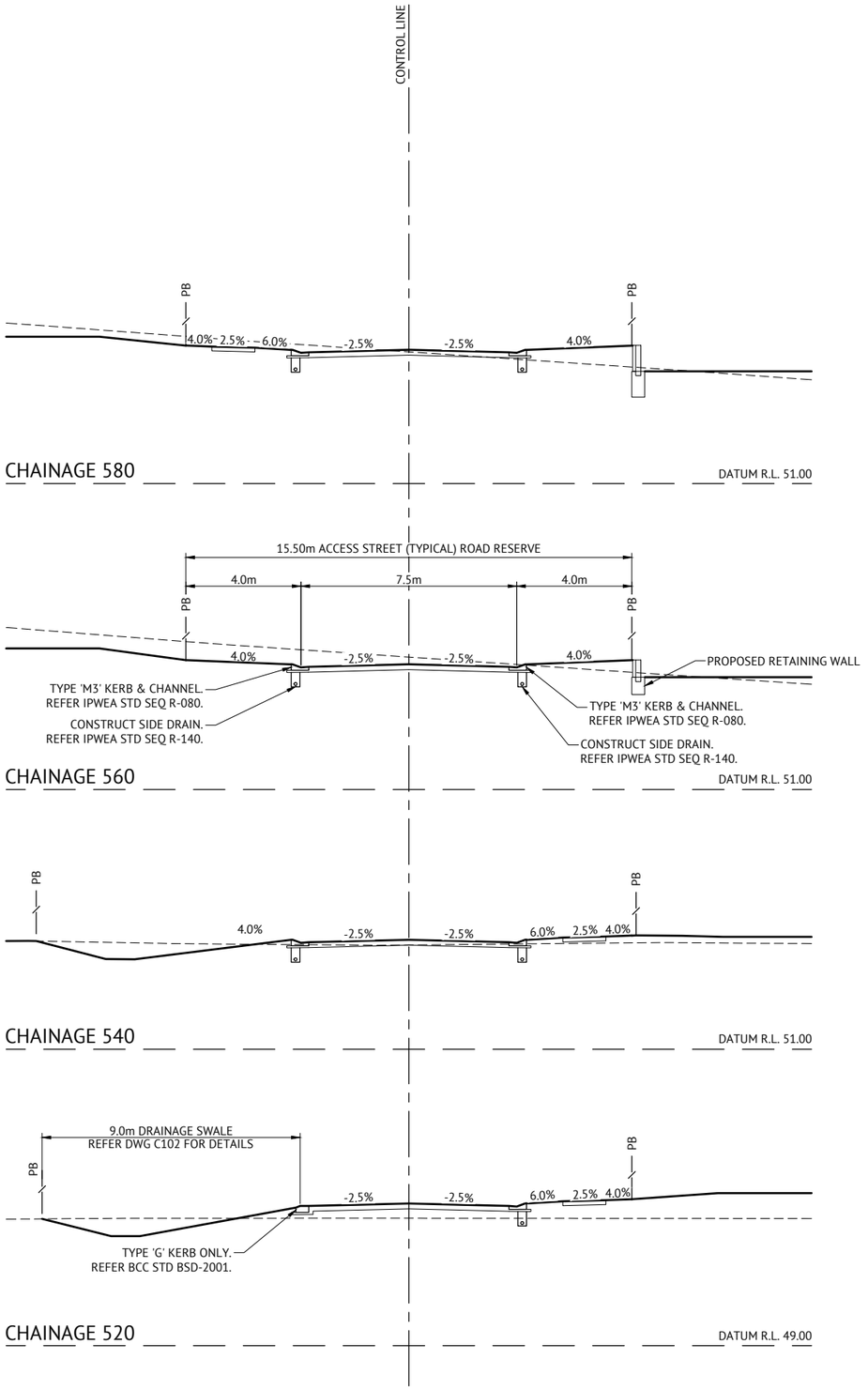
WEB: www.premise.com.au

DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE HEDGE LANE CROSS SECTIONS - SHEET 3 OF 4

JOB CODE MIR001-05
SHEET NUMBER C304
REV A



FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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

DESIGNED: M. MAJZNER
CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE RPEQ 15187 15/11/19

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: HEDGE LANE CROSS SECTIONS - SHEET 4 OF 4

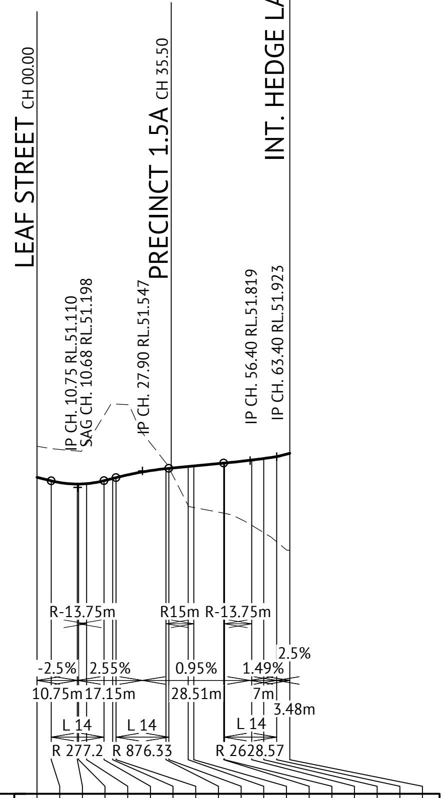
JOB CODE: MIR001-05
SHEET NUMBER: C305
REV: A

EXISTING PRECINCT 1.2B | PRECINCT 1.5A

PAVEMENT DESIGN (PRELIMINARY)

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 OF PAVEMENT CONSTRUCTION.



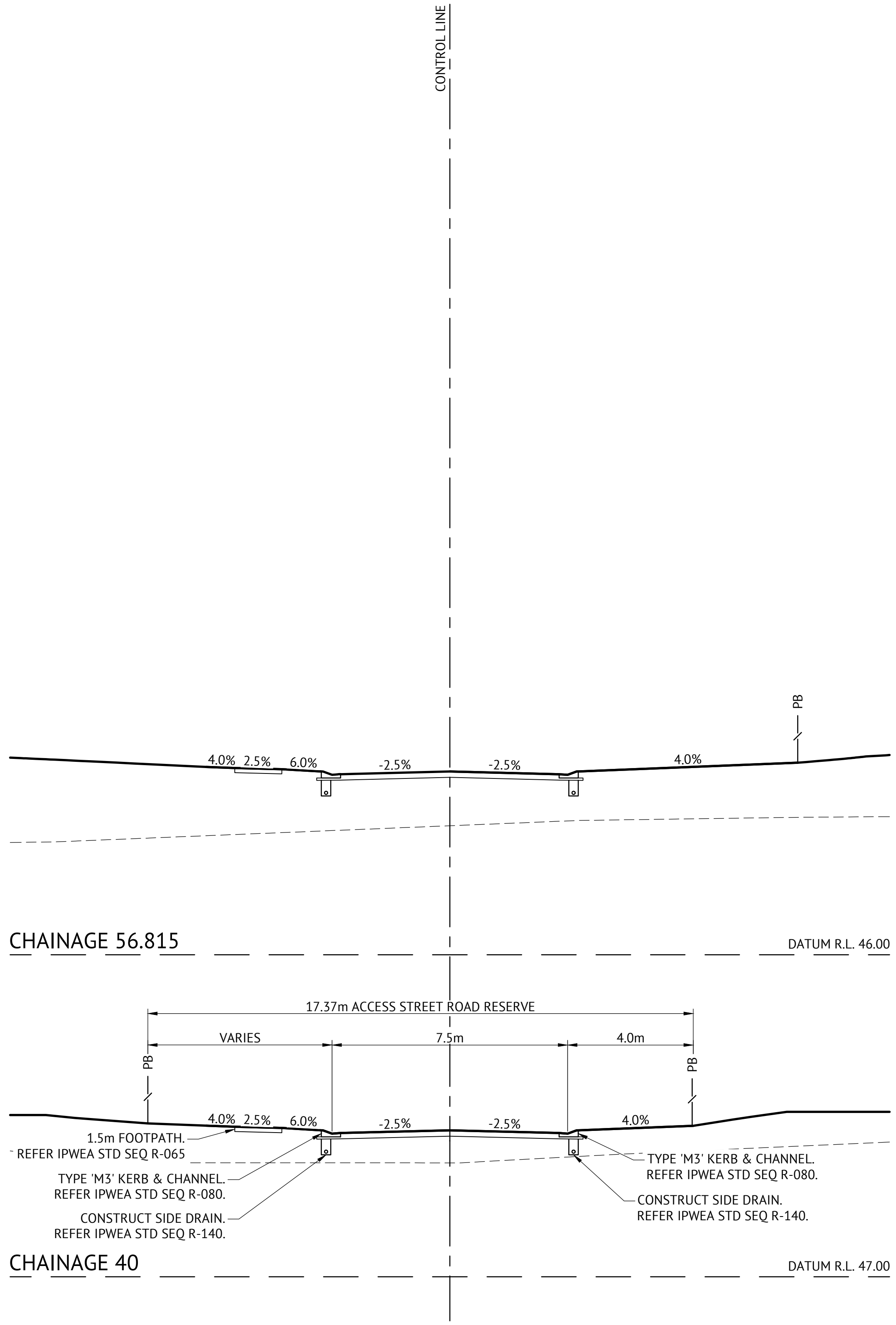
✳ REFER TO INTERSECTION DETAILS PLANS

DATUM R.L.43.0

CUT (-)/FILL DEPTH	-0.821	-0.853	-0.875	-0.872	-1.058	-1.728	-1.976	-1.948	-0.152	-0.013	1.036	1.099	1.323	1.329	1.728	1.963	2.251	2.567
LHS LIP LEVEL					51.122	51.202	51.259	51.282	51.519	51.527	51.576	51.590	51.665	✳				
RHS LIP LEVEL					51.122	51.202	51.259	51.282	51.519	51.527	51.576	51.590	51.665	51.667	✳			
DESIGN SURFACE	51.379	51.285	51.198	51.199	51.209	51.289	51.346	51.369	51.606	51.614	51.663	51.677	51.752	51.754	51.833	51.875	51.923	52.010
NATURAL SURFACE	52.200	52.138	52.073	52.071	52.267	53.017	53.322	53.317	51.758	51.627	50.626	50.577	50.429	50.425	50.106	49.912	49.672	49.443
CHAINAGE	0.00	3.75	10.68	11.01	13.12	17.75	20.00	20.90	34.12	34.90	40.00	41.47	49.40	49.62	56.82	60.00	63.40	66.88

GRASS LANE LONGITUDINAL SECTION

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



GRASS LANE CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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WEB: www.premise.com.au

DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT **MIRVAC**

PROJECT **EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT**

LOCATION **TEVIOT ROAD, GREENBANK**

SHEET TITLE **GRASS LANE LONGITUDINAL AND CROSS SECTIONS**

JOB CODE MIR001-05

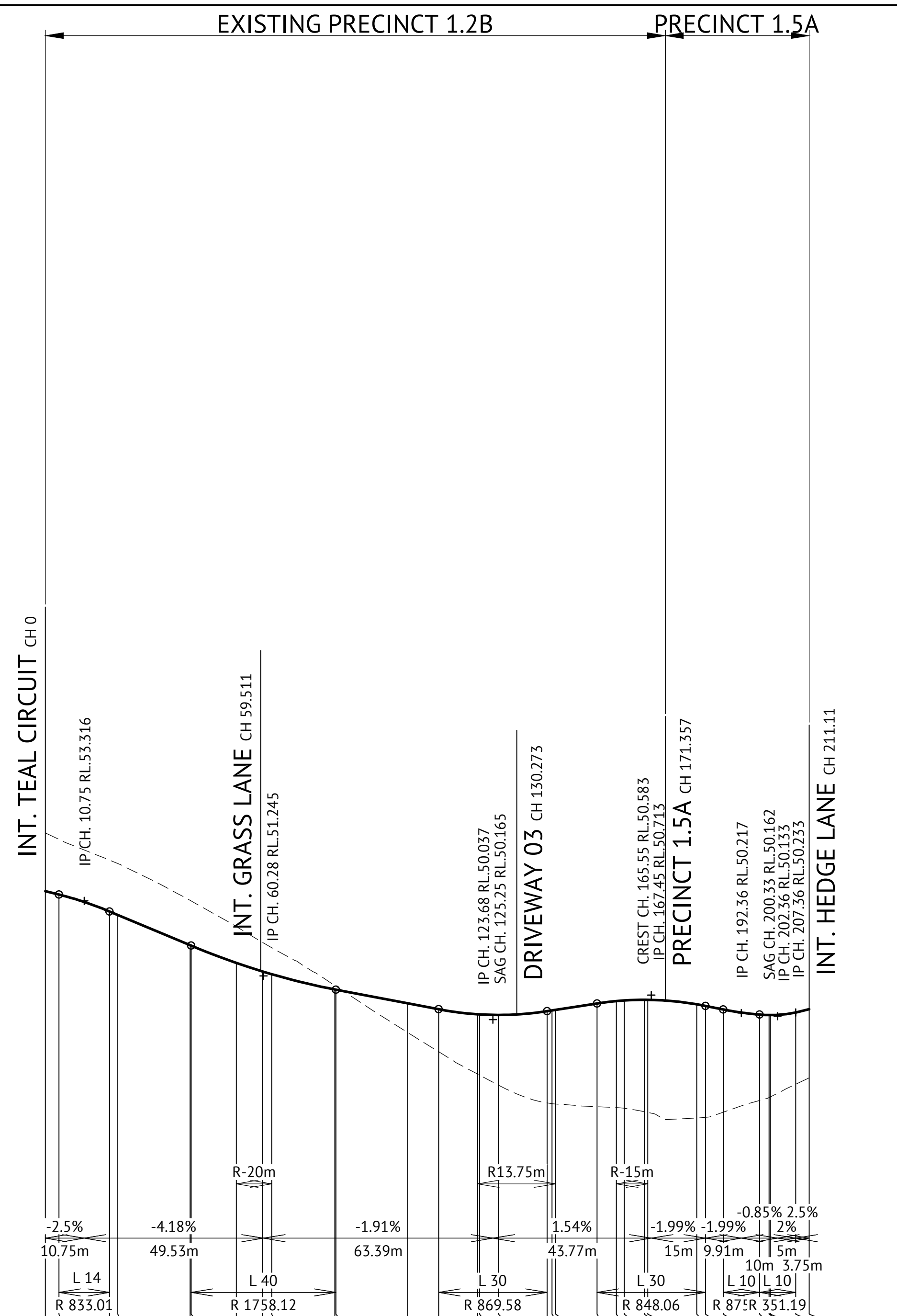
SHEET NUMBER C306

REV A

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	LEAF STREET (CH 171.357 - CH 211.11)
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9 x 10^5
SURFACE	-	35mm AC of 10mm MIX
PRIMER	-	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 OF PAVEMENT CONSTRUCTION.



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data: R-20m, R13.75m, R-15m

Vertical Geometry Grade (%): -2.5%, -4.18%, -1.91%, 1.54%, -1.99%, -1.99%, -0.85%, 2%, 2.5%

Vertical Grade Length (m): 10.75m, 49.53m, 63.39m, 43.77m, 15m, 9.91m, 10m, 5m, 3.75m

Vertical Curve Length (m): L 14, L 40, L 30, L 30, L 10, L 10

Vertical Curve Radius (m): R 833.01, R 1758.12, R 869.58, R 848.06, R 875, R 351.19

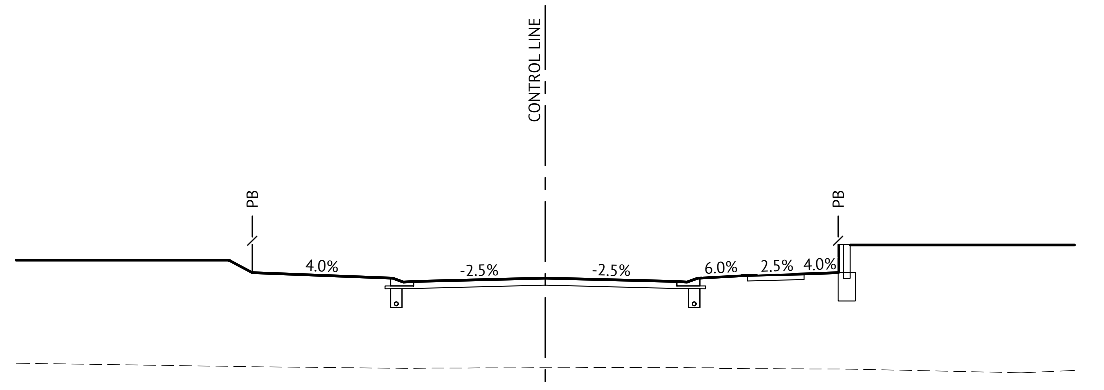
DATUM R.L.41.0

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
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
RHS LIP LEVEL			52.961	52.867	52.031	52.019	51.541	51.306	51.229	50.808	50.802	50.427	50.261	50.122	50.117	50.092
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
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
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

CUT (-)/FILL DEPTH	2.536	2.574	2.600	2.852	2.942	2.976	3.086	3.106	3.141	3.077	2.837	2.372	2.278	2.261	1.982	1.898
LHS LIP LEVEL	50.182	50.203	50.218	50.395	50.461	50.478	50.496	50.495	50.373	50.327	50.230			✳		
RHS LIP LEVEL	50.182	50.202	50.218	50.395	50.461	50.478	50.496	50.495	50.373	50.327	50.230			✳		
DESIGN SURFACE	50.269	50.289	50.305	50.482	50.548	50.565	50.583	50.582	50.460	50.414	50.317	50.175	50.162	50.162	50.233	50.326
NATURAL SURFACE	47.733	47.715	47.706	47.630	47.606	47.589	47.497	47.476	47.319	47.338	47.480	47.803	47.885	47.901	48.250	48.429
CHAINAGE	138.68	140.00	141.03	152.45	157.80	160.00	165.55	166.50	180.00	182.45	187.36	197.36	200.00	200.33	207.36	211.11

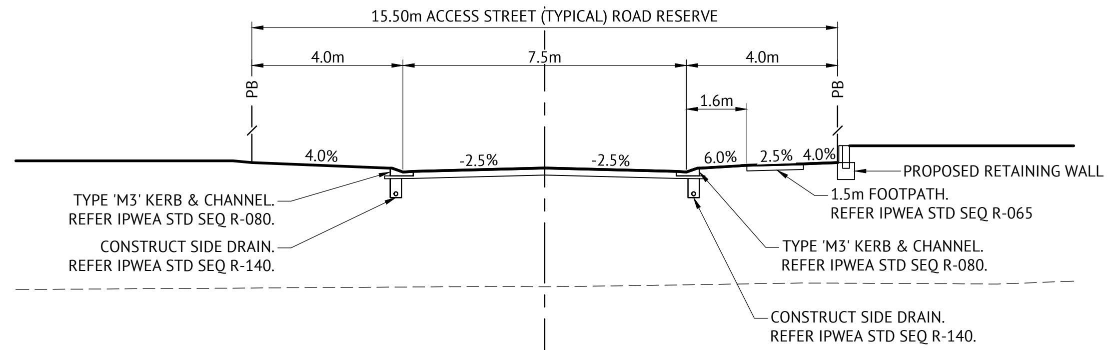
LEAF STREET LONGITUDINAL SECTION

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



CHAINAGE 197.357

DATUM R.L. 44.00



CHAINAGE 180

DATUM R.L. 44.00

LEAF STREET CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise
BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
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PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE 15/11/19 RPEQ 15187

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

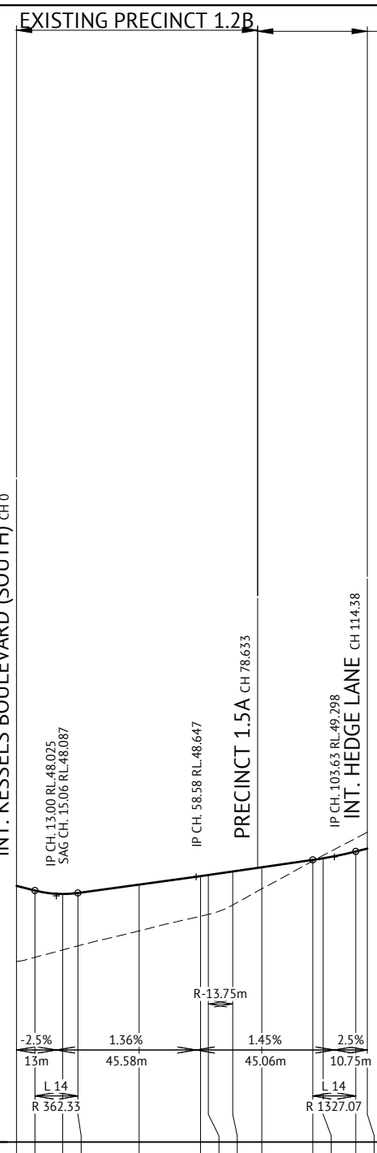
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: LEAF STREET LONGITUDINAL AND CROSS SECTIONS

JOB CODE: MIR001-05
SHEET NUMBER: C307
REV: A

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	AMAZON WAY CH. 78.633 - CH. 114.38
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 OF PAVEMENT CONSTRUCTION.



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

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

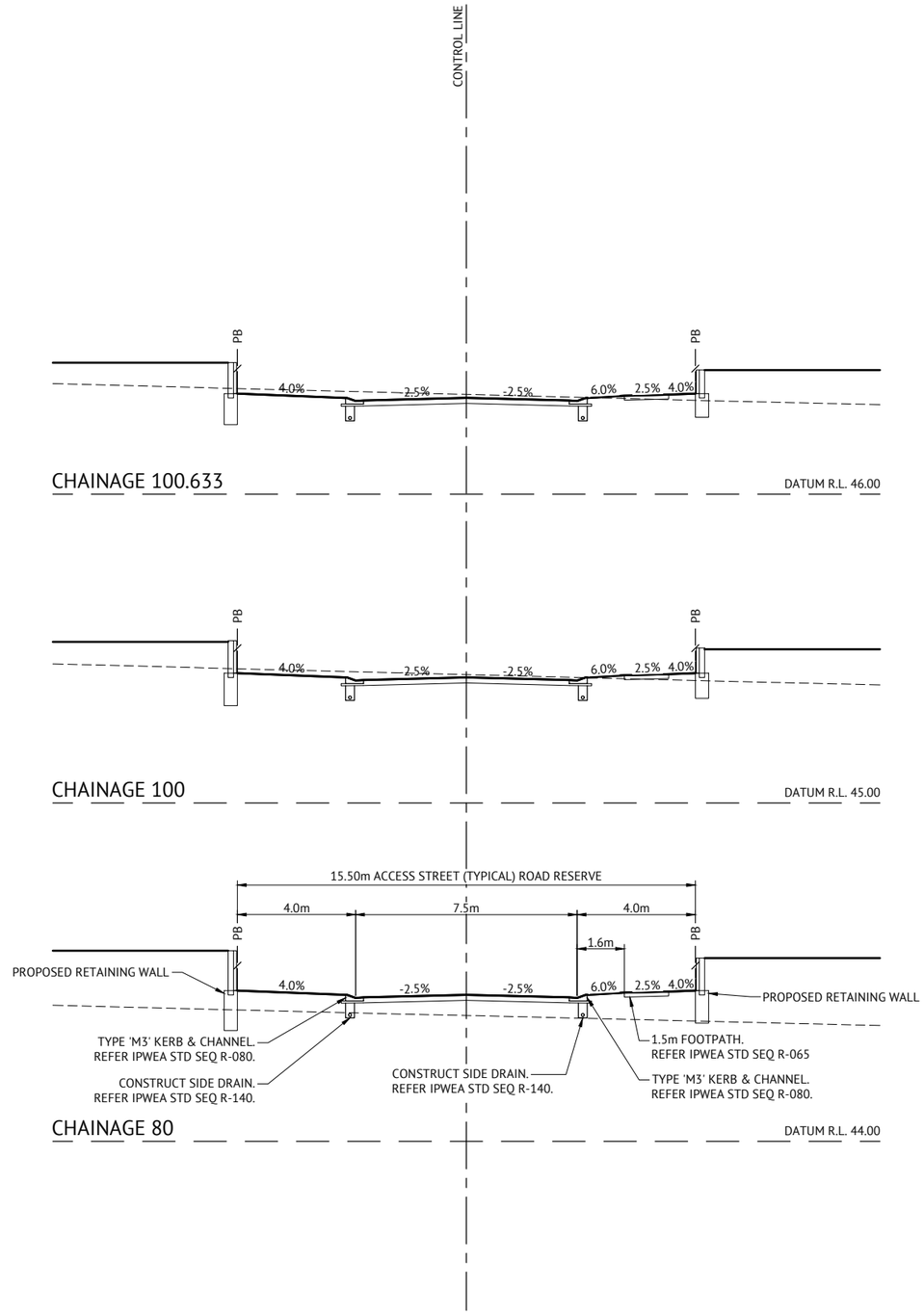
Vertical Curve Length (m)
Vertical Curve Radius (m)

DATUM R.L.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	46.393	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
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
LHS LIP LEVEL			48.000	48.034	48.306	48.580	48.617	48.732	48.869	49.110	49.165	✳	
RHS LIP LEVEL				48.034	48.306	48.580	48.617	48.732	48.869	49.110	49.163	✳	

AMAZON WAY LONGITUDINAL SECTION

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



AMAZON WAY CROSS SECTIONS

SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

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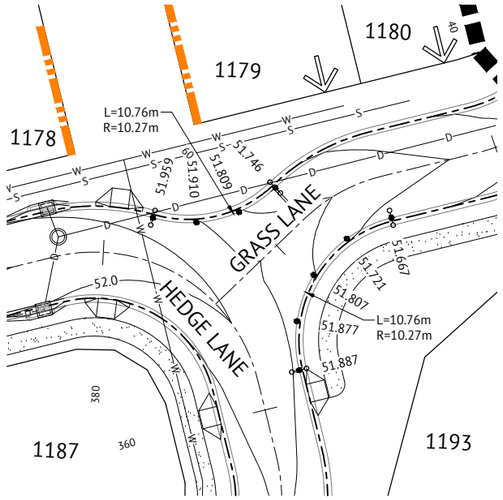
DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER
JOSHUA STONE 15/11/19 RPEQ 15187

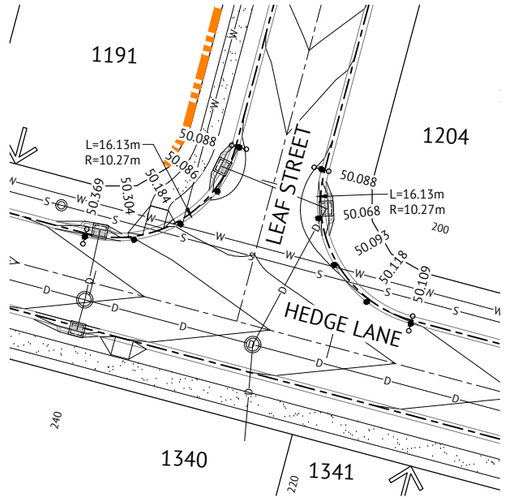
SCALE
0 2 4 6m
SCALE 1:100 (A1)
HORIZONTAL 1:1000 (A1)
0 20 40 60m
0 2 4 6m
VERTICAL 1:100 (A1)
ORIGINAL SHEET SIZE A1

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE AMAZON WAY LONGITUDINAL AND CROSS SECTIONS

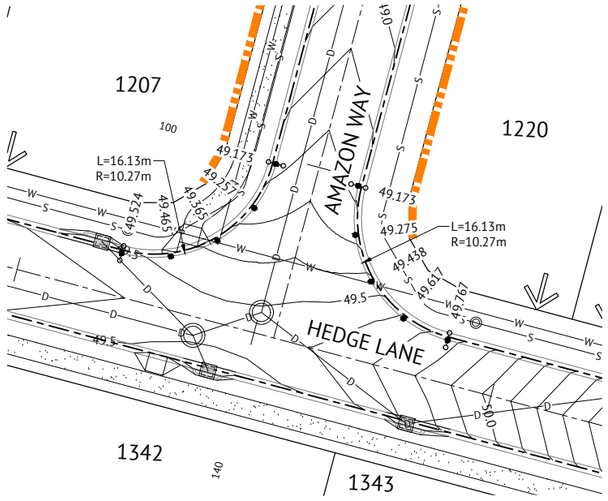
JOB CODE MIR001-05
SHEET NUMBER C308
REV A



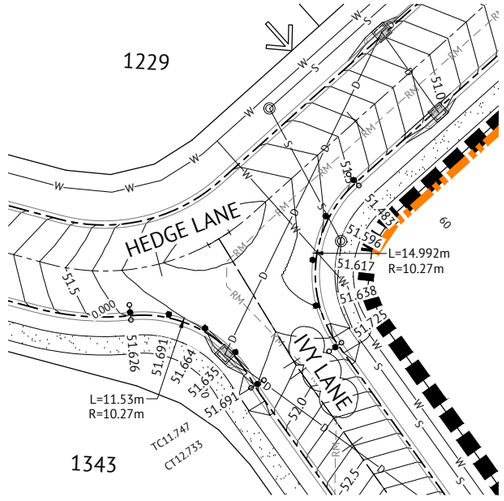
INTERSECTION HEDGE LANE & GRASS LANE



INTERSECTION HEDGE LANE & LEAF STREET



INTERSECTION HEDGE LANE & AMAZON WAY



INTERSECTION HEDGE LANE & ROAD 18

LEGEND

- 12.0 — FINISHED MAJOR CONTOURS (0.5m)
- FINISHED MINOR CONTOURS (0.1m)
- PROPOSED 1.5m WIDE CONCRETE FOOTPATH. (UNO) REFER CONC. REQUIREMENTS ON DRG. No. C300
- PROPOSED KERB RAMP. REFER IPWEA STD DWG RS-090.
- PROPOSED IPWEA TYPE 'M3' KERB & CHANNEL. 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
- RM — EXISTING SEWER RISING MAIN

NOTE

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

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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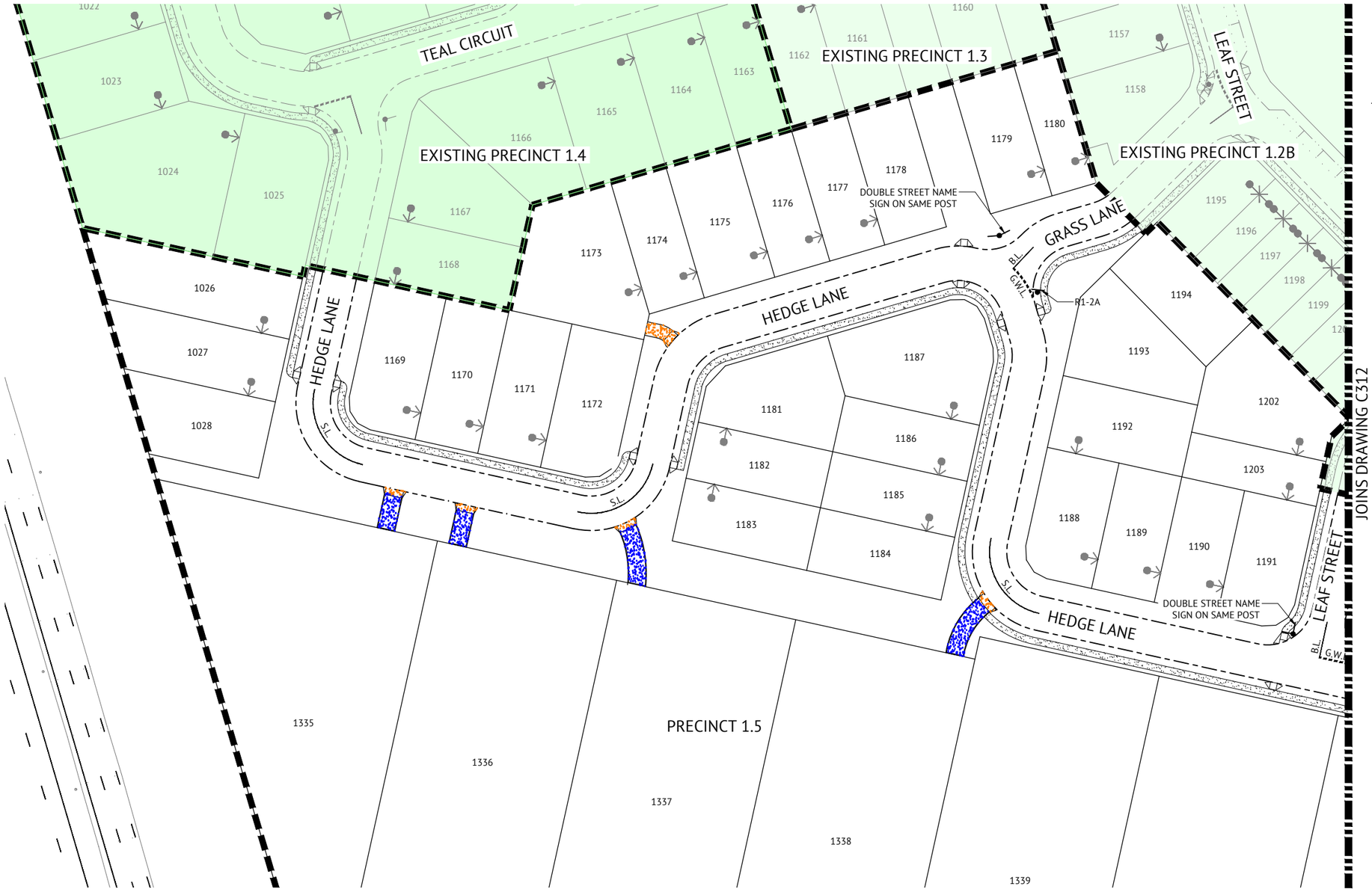
DESIGNED: M. MAJZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY — 23/06/20 — RPEQ 7112

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

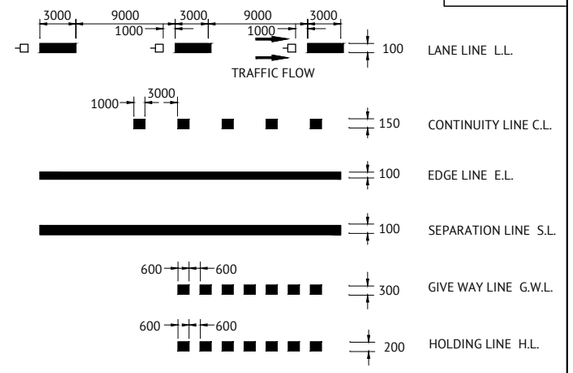
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: INTERSECTION DETAILS PLAN

JOB CODE: MIR001-05
SHEET NUMBER: C310
REV: B



TYPICAL LINEMARKING LEGEND

N.T.S.



LINEMARKING NOTES

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

SIGNAGE NOTES

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

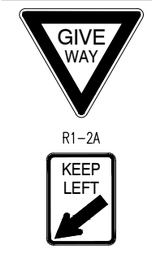
LEGEND

CONCRETE DRIVEWAY CROSSOVER

AC SURFACE DRIVEWAY

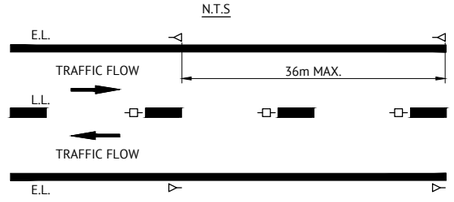
TACTILE GROUND SURFACE INDICATORS (TGSI's) TO BE INSTALLED AT ALL KERB RAMPS ON MAJOR ROADS IN ACCORDANCE WITH AUSTRALIAN STANDARD AS1428.1 (2009)

REQUIRED SIGNS



TYPICAL TWO LANE TWO-WAY ROAD

N.T.S



FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
15/11/19	A	ORIGINAL ISSUE	MM	JS

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Premise

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CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

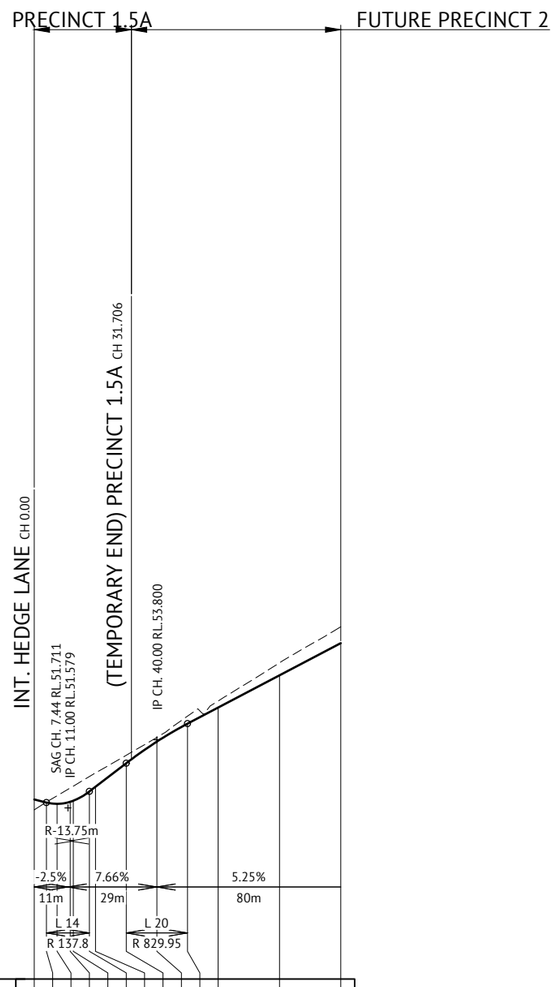
CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C311
REV A

PAVEMENT DESIGN (PRELIMINARY)

ROADS	-	IVY LANE
CLASS	-	ACCESS STREET (TYPICAL)
ESA's	-	5.9×10^5
SURFACE	-	35mm AC of 10 mm MIX
PRIMER	-	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 APPROCAL PRIOR TO COMMENCEMENT OF PAVEMENT CONSTRUCTION.



✳ REFER TO INTERSECTION DETAILS PLANS

Horiz Curve Data

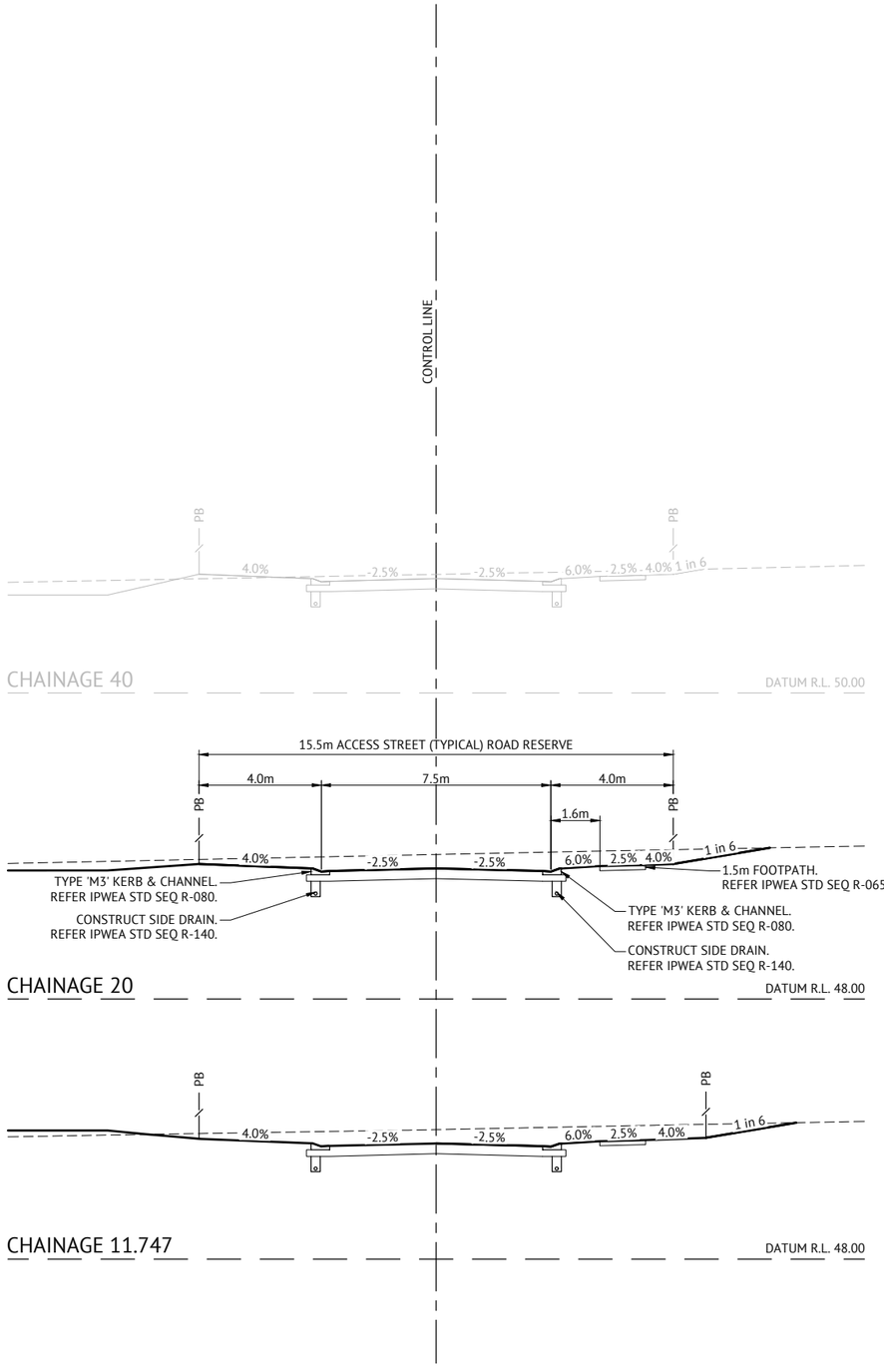
Vertical Geometry Grade (%)
Vertical Grade Length (m)

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

DATUM R.L.46.0

CHAINAGE	0.00	4.00	7.44	11.75	12.73	18.00	20.00	30.00	40.00	50.00	60.00	80.00	100.00
NATURAL SURFACE	51.517	51.767	51.975	52.229	52.287	52.604	52.722	53.294	53.878	54.570	55.067	56.309	57.485
DESIGN SURFACE	51.854	51.754	51.711	51.778	51.812	52.115	52.268	53.054	53.740	54.325	54.850	55.900	56.950
RHS LIP LEVEL	✳			51.691	51.725	52.028	52.181	52.947	53.653	54.238	54.763	55.813	56.863
LHS LIP LEVEL	✳				51.725	52.028	52.181	52.947	53.653	54.238	54.763	55.813	56.863
CUT (-)/FILL DEPTH	0.337	-0.013	-0.264	-0.451	-0.475	-0.489	-0.454	-0.260	-0.138	-0.245	-0.217	-0.409	-0.535

IVY LANE LONGITUDINAL SECTION
SCALE 1:1000(H); 1:100(V)



IVY LANE CROSS SECTIONS
SCALE 1:100

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 23/06/20 RPEQ 7112

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE IVY LANE LONGITUDINAL AND CROSS SECTIONS

JOB CODE MIR001-05
SHEET NUMBER C309
REV B

REFER TO DRAWING C311
FOR NOTES AND LEGEND

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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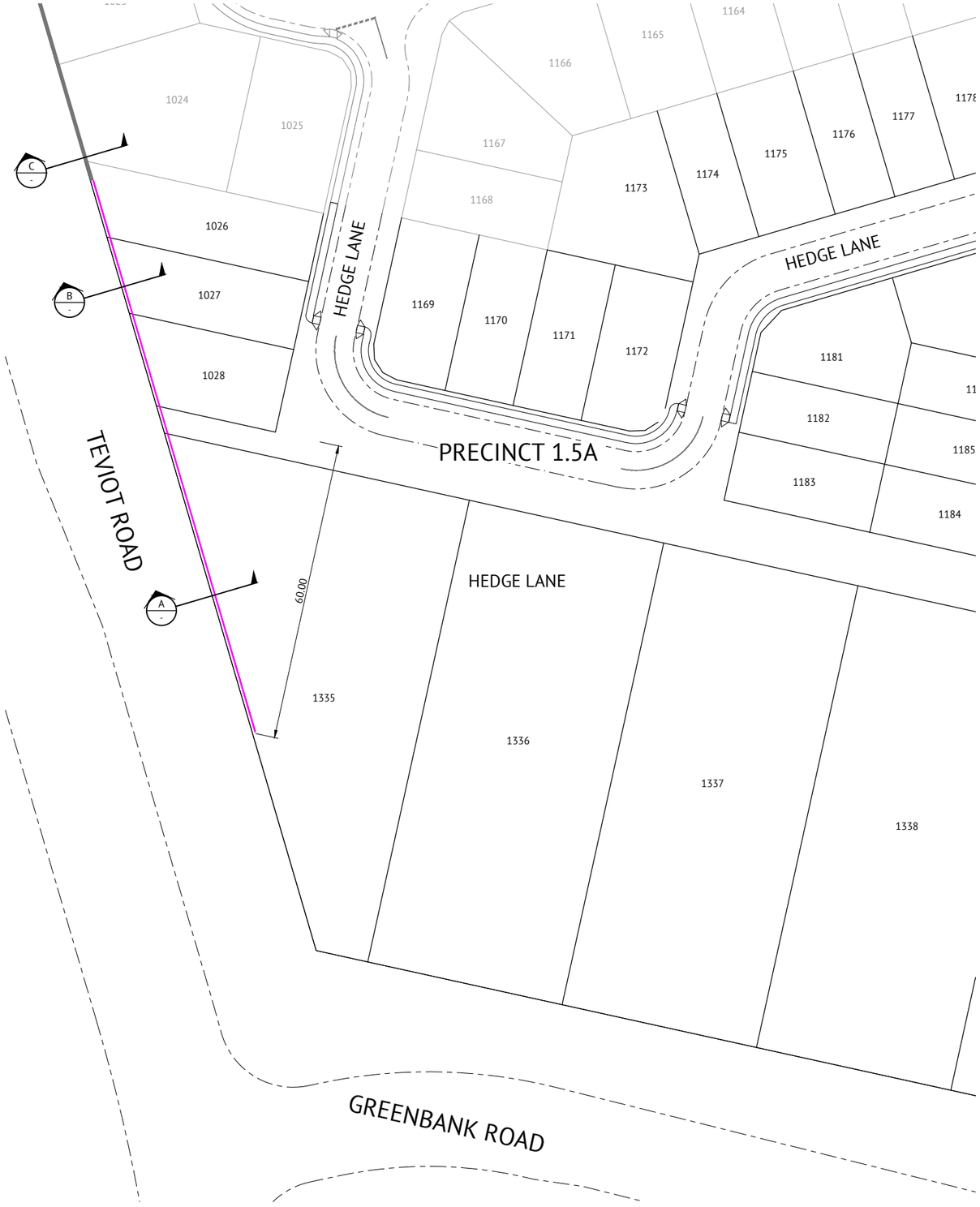
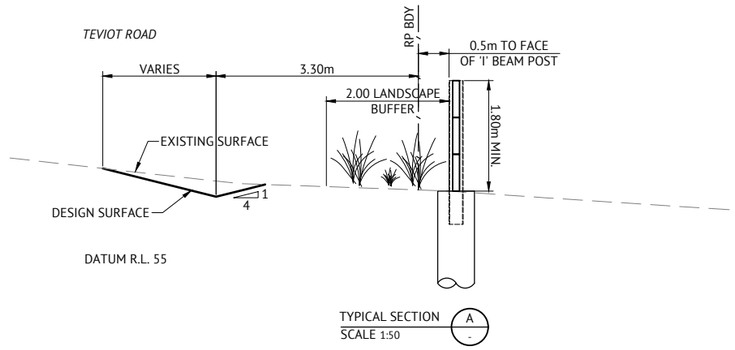
PROJECT CERTIFIER: PAT BRADY 23/06/20 RPEQ 7112

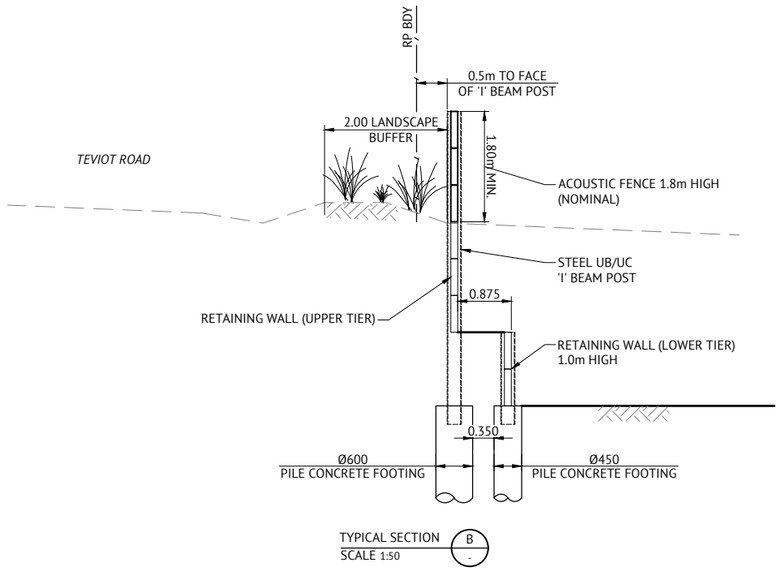
SCALE
0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

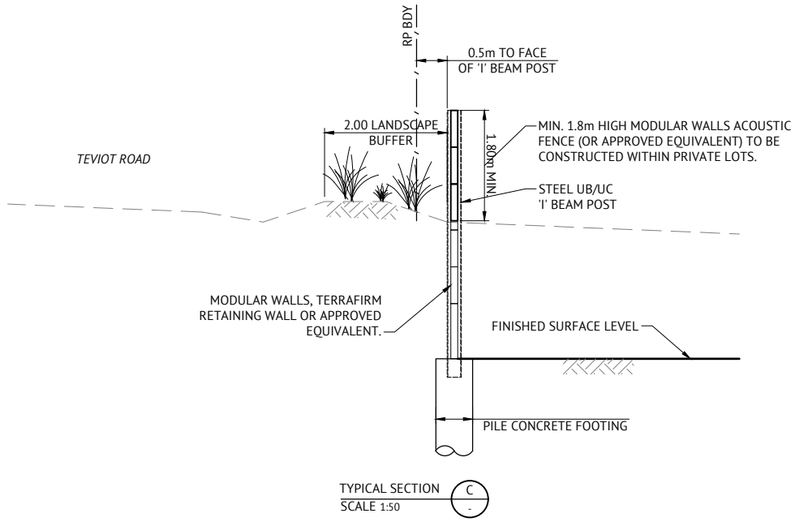
CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: PAVEMENT MARKINGS AND SIGNAGE LAYOUT - SHEET 2 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C312
REV: B









N

LEGEND - PROPOSED

1.8m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.

LEGEND - EXISTING

1.8m HIGH MODULAR WALLS, ACOUSTIC FENCE OR APPROVED EQUIVALENT.

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

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

THE PROPOSED ACOUSTIC FENCE SHALL BE CONSTRUCTED AS FOLLOWS:

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

FOR CONSTRUCTION

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CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE RPEQ 15187 15/11/19

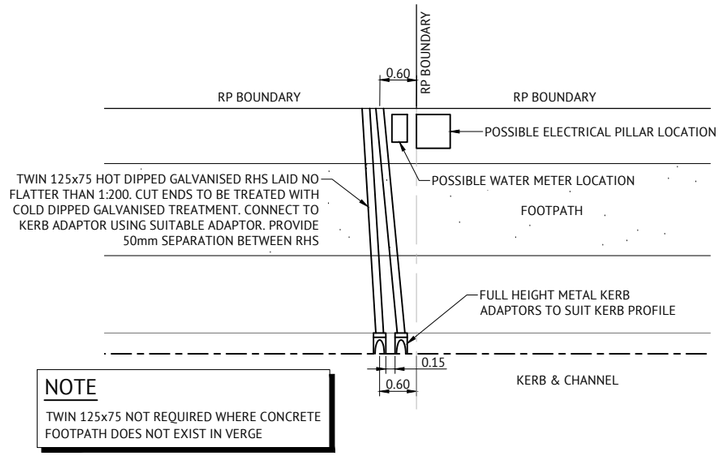
SCALE
0 10 20 30m
SCALE 1:500 (A1)
ORIGINAL SHEET SIZE A1

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: ACOUSTIC FENCE DETAILS

JOB CODE: MIR001-05
SHEET NUMBER: C313
REV: 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.



NOTE

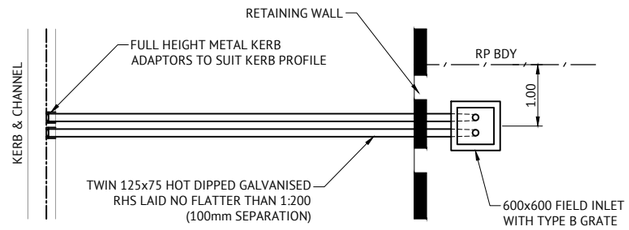
TWIN 125x75 NOT REQUIRED WHERE CONCRETE FOOTPATH DOES NOT EXIST IN VERGE

TYPICAL ROOFWATER KERB ADAPTOR OUTLET DETAIL

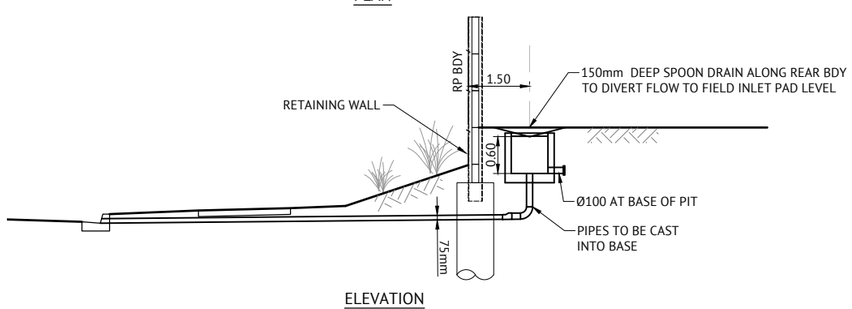
N.T.S.

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



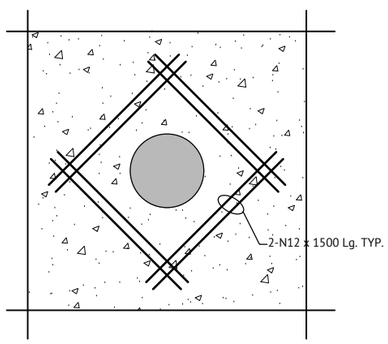
PLAN



ELEVATION

TYPICAL ROOFWATER PROPERTY PIT TO KERB ADAPTOR OUTLET DETAIL

N.T.S.



TYPICAL DETAIL

GRATED PIT IN CONCRETE PAVEMENT
1:20 @ A1

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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 M. MAIZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE DETAILS AND NOTES

JOB CODE MIR001-05
SHEET NUMBER C400
REV A

JOINS SHEET 2

N

LEGEND

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

FOR CONSTRUCTION

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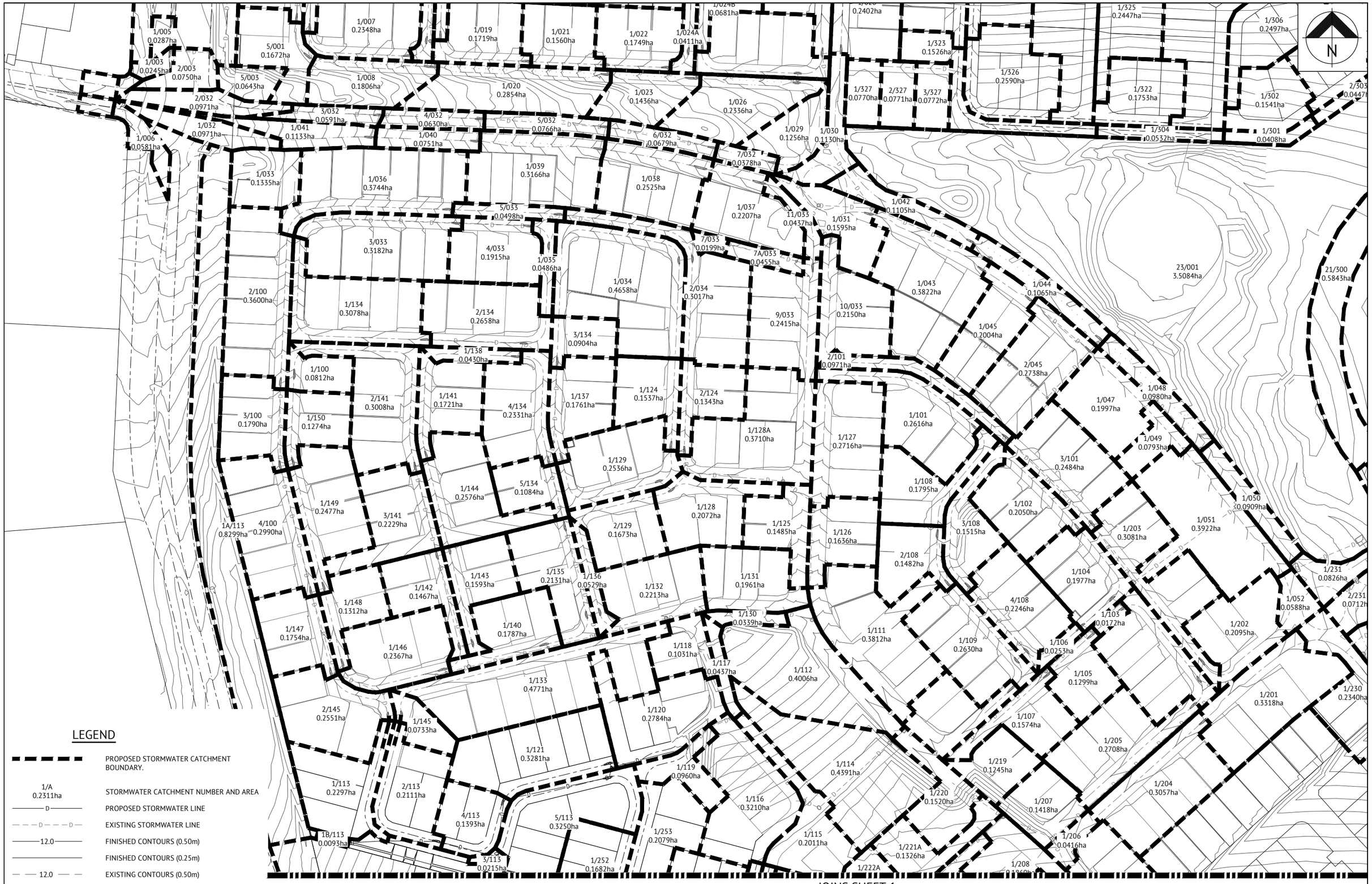
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER
JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C401
REV A



LEGEND

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

JOINS SHEET 1

FOR CONSTRUCTION

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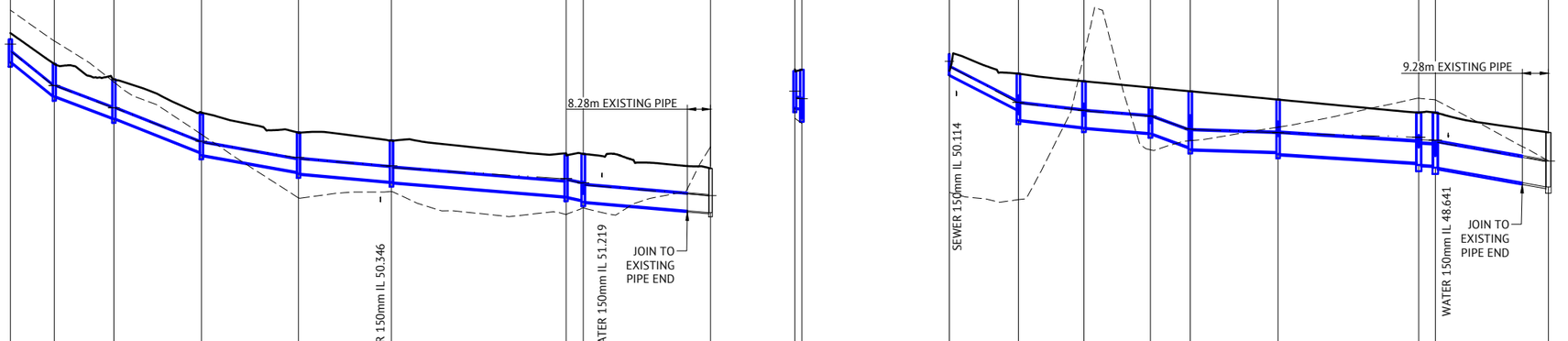
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE RPEQ 15187 15/11/19

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE CATCHMENT PLAN - SHEET 2 OF 2

JOB CODE MIR001-05
SHEET NUMBER C402
REV A



STRUCTURE NAME	1A/113	1B/113	1/113	2/113	3/113	4/113	5/113	6/113	7/113	1/121	6/113	1/200	2/200	3/200	4/200	5/200	6/200	7/200	8/200	9/200	1/211	1A/211
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA FIELD INLET - 900x600 TYPE 2 L.D. GRATE	IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA		IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	HEADWALL	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1050mm DIA	IPWEA MANHOLE 1500mm DIA	IPWEA MANHOLE 1500mm DIA		IPWEA KERB INLET L.1L; 2.4m Lintel	IPWEA KERB INLET L.1L; 2.4m Lintel
PIPE SIZE (mm)	375	375	375	450	525	525	600	600		375		600x300	600	600	600	675	750	750	900		375	
PIPE CLASS	2	2	2	2	2	2	2	2		2		2	2	2	2	2	2	2	2		2	
PIPE GRADE (%)	7.61%	3.62%	3.85%	1.74%	0.88%	0.80%	1.81%	0.84%		1.00%		5.00%	1.11%	0.77%	3.43%	0.30%	0.62%	0.45%	1.70%		3.20%	
PIPE SLOPE (1 in X)	13.1	27.6	26.0	57.6	114.1	124.4	55.2	119.3		100.0		20.0	90.3	129.9	29.2	333.3	161.9	221.7	58.8		31.2	
FULL PIPE VELOCITY (m/s)	0.95	0.96	0.96	0.85	0.63	0.75	0.73	0.97		0.69		1.50	1.18	1.38	1.49	1.35	1.19	1.48	1.12		0.12	
PART FULL VELOCITY (m/s)	3.50	2.68	2.74	2.17	1.68	1.70	2.43	1.97		1.53		3.47	2.30	2.08	3.72	1.46	2.07	1.91	3.25		1.42	
PIPE FLOW (cumecs)	0.105	0.106	0.106	0.135	0.137	0.162	0.206	0.273		0.076		0.269	0.333	0.391	0.420	0.483	0.526	0.655	0.713		0.014	
PIPE CAPACITY AT GRADE (cumecs)	0.484	0.334	0.344	0.376	0.403	0.386	0.827	0.562		0.175		0.667	0.646	0.539	1.137	0.461	0.875	0.748	2.363		0.314	
DATUM RL	37.0									34.0		33.0									41.0	
WSE IN STRUCTURE	55.948	54.477	53.684	52.495	51.920	51.617	51.165	51.013		51.275	51.013	51.340	49.880	49.594	49.394	48.931	48.805	48.636	48.533		58.673	58.331
HGL IN PIPE	55.672	54.477	54.461	53.684	53.674	52.495	52.450	51.908	51.865	51.609	51.555	51.159	51.110	51.008	50.936	50.559	50.559					
												51.150	49.880	49.849	49.594	49.570	49.394	49.368	48.931	48.908	48.805	48.789	48.636	48.548	48.527	48.456	47.792	47.792			58.665	58.331
DEPTH OF INVERT BELOW FSL	0.823	1.137	1.157	1.379	1.399	1.359	1.459	1.410	1.470	1.473	1.493	1.474	1.494	1.641	1.705	1.576	1.576				1.316	1.389	1.705	0.750	1.279	1.652	1.639	1.659	1.618	1.638	1.990	2.065	1.863	1.938	1.785	1.860	1.886	1.958	1.938	1.938			1.351	1.309
INVERT LEVEL	55.297	54.106	54.086	53.319	53.299	52.100	52.000	51.400	51.340	51.050	51.030	50.530	50.510	50.400	50.336	49.956	49.956				50.677	50.652	50.336	50.850	49.622	49.249	48.990	48.970	48.788	48.768	48.283	48.208	48.114	48.039	47.730	47.655	47.628	47.556	46.871	46.871			58.290	57.875
FINISHED (& EXISTING) SURFACE LEVEL	56.120	(57.159)	55.242	(56.063)	54.698	(54.605)	53.459	(52.740)	52.810	(50.482)	52.523	(50.702)	52.004	(49.889)	52.041	(50.131)	51.532	(52.301)			51.993	(50.312)	52.041	(50.131)	51.600	(46.678)	50.901	(46.420)	50.630	(51.566)	50.406	(48.191)	50.272	(48.516)	49.977	(48.995)	49.514	(50.028)	49.514	(49.970)	48.809	(47.799)	59.641	(60.447)	59.183	(60.094)
CHAINAGE	0.000	15.649	15.649	21.189	36.838	31.163	68.001	34.548	102.549	33.098	135.647	62.187	197.834	6.072	203.906	45.332	249.238				0.000	2.493	2.493	0.000	24.568	24.568	23.327	47.895	23.667	71.562	14.166	85.727	31.275	117.003	50.071	167.074	5.893	172.966	40.251	213.217	0.000	12.973	12.973	
LINE	113									121		200									211	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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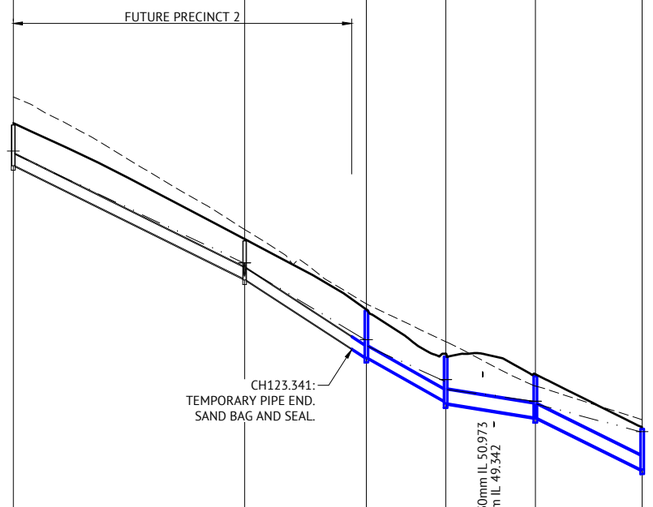
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 1 OF 3

JOB CODE MIR001-05
SHEET NUMBER C403
REV A

STRUCTURE NAME	1A/211	2/211	3/211	4/211	5/211	6/211	1/213	5/211	1/223	2/223	8/200	1/224	7/200	1/225	7/200	1/226	6/200	1/227	2/227	5/200
STRUCTURE DESCRIPTION	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel		IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1500mm DIA	IPWEA KERB INLET L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA KERB INLET (SAG) L.I.L; 2.4m Lintel	IPWEA MANHOLE 1050mm DIA
PIPE SIZE (mm)		375	375	375	450	450	375		375	450		375		375		450		375	375	
PIPE CLASS		2	2	2	2	2	2		2	2		2		2		2		2	2	
PIPE GRADE (%)		4.87%	6.35%	5.45%	1.56%	4.82%	1.00%		3.74%	1.94%		1.00%		1.00%		1.00%		1.00%	0.40%	
PIPE SLOPE (1 in X)		20.5	15.8	18.4	64.0	20.8	100.0		26.7	51.5		99.9		100.0		100.0		100.0	250.0	
FULL PIPE VELOCITY (m/s)		0.63	1.36	1.79	1.69	1.94	0.34		0.29	0.51		1.09		0.62		0.43		0.08	0.14	
PART FULL VELOCITY (m/s)		2.65	3.61	3.67	2.46	3.92	1.27		1.93	1.96		1.71		1.49		1.47		0.83	0.71	
PIPE FLOW (cumecs)		0.069	0.150	0.198	0.268	0.308	0.038		0.032	0.081		0.120		0.069		0.068		0.009	0.015	
PIPE CAPACITY AT GRADE (cumecs)		0.387	0.442	0.409	0.356	0.626	0.175		0.339	0.397		0.175		0.175		0.285		0.175	0.111	
DATUM RL	37.0						34.0		33.0			32.0		32.0		32.0		32.0		
WSE IN STRUCTURE	58.331	54.690	52.183	50.883	50.177		50.239	50.177	49.601	48.796	48.533	49.125	48.636	48.975	48.636	49.279	48.805	49.123	49.011	48.931
HGL IN PIPE	58.331	58.230	54.690	54.505	52.183	51.965	50.833	50.555	50.177	50.078	49.178	49.178	50.181	50.177	50.078	49.559	48.796	48.742	48.527	48.456
DEPTH OF INVERT BELOW FSL	1.309	1.329	1.227	1.276	1.516	1.536	1.454	1.529	1.350	1.369	1.323	1.323	1.315	1.350	1.369	1.359	1.324	1.430	1.511	1.958
INVERT LEVEL	57.875	57.855	54.178	54.130	51.610	51.590	50.180	50.105	49.648	49.628	47.951	47.951	49.727	49.648	49.628	49.184	48.398	48.292	48.003	47.556
FINISHED (& EXISTING) SURFACE LEVEL	59.183	(60.094)	55.405	(55.776)	53.125	(53.353)	51.634	(52.116)	50.997	(50.671)	49.274	(49.572)	51.043	(51.137)	50.997	(50.671)	50.543	(50.725)	49.722	(50.634)	49.514	(49.970)
CHAINAGE	12.973	75.463	88.436	39.705	128.141	25.880	154.021	29.254	183.275	34.811	218.086	0.000	7.993	7.993		0.000	21.008	21.008	14.917	35.925
LINE		211					213			223			224		225		226		227	



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

CLIENT MIRVAC

PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

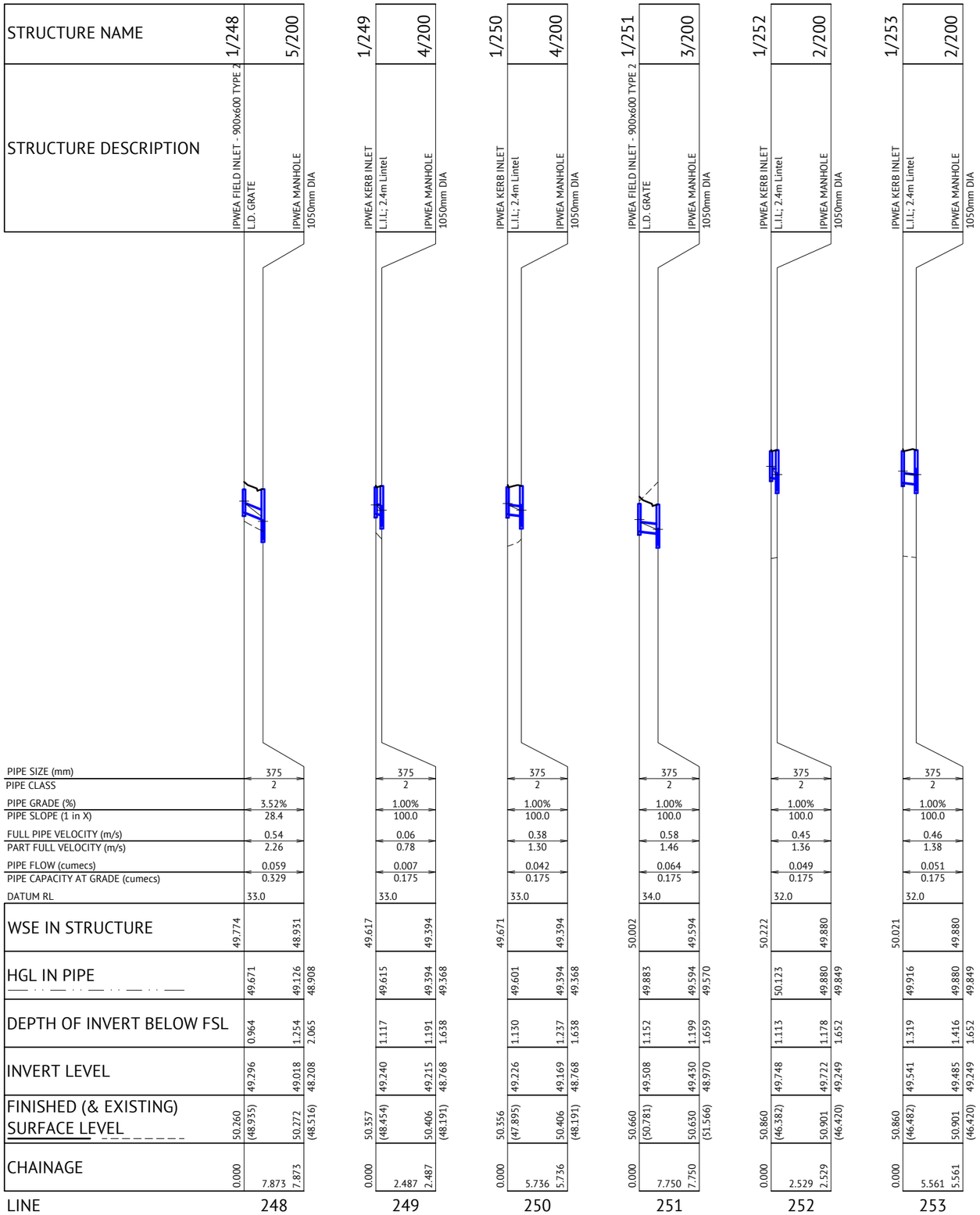
LOCATION TEVIOT ROAD, GREENBANK

SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 2 OF 3

JOB CODE MIR001-05

SHEET NUMBER C404

REV A



STRUCTURE NAME	1/248	5/200	1/249	4/200	1/250	4/200	1/251	3/200	1/252	2/200	1/253	2/200
STRUCTURE DESCRIPTION	IPWEA FIELD INLET - 900x600 TYPE 2	L.D. GRATE	IPWEA KERB INLET	L.I.L; 2.4m Lintel	IPWEA KERB INLET	L.I.L; 2.4m Lintel	IPWEA FIELD INLET - 900x600 TYPE 2	L.D. GRATE	IPWEA KERB INLET	L.I.L; 2.4m Lintel	IPWEA KERB INLET	L.I.L; 2.4m Lintel
		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1050mm DIA		IPWEA MANHOLE 1050mm DIA
PIPE SIZE (mm)	375		375		375		375		375		375	
PIPE CLASS	2		2		2		2		2		2	
PIPE GRADE (%)	3.52%		1.00%		1.00%		1.00%		1.00%		1.00%	
PIPE SLOPE (1 in X)	28.4		100.0		100.0		100.0		100.0		100.0	
FULL PIPE VELOCITY (m/s)	0.54		0.06		0.38		0.58		0.45		0.46	
PART FULL VELOCITY (m/s)	2.26		0.78		1.30		1.46		1.36		1.38	
PIPE FLOW (cumecs)	0.059		0.007		0.042		0.064		0.049		0.051	
PIPE CAPACITY AT GRADE (cumecs)	0.329		0.175		0.175		0.175		0.175		0.175	
DATUM RL	33.0		33.0		33.0		34.0		32.0		32.0	
WSE IN STRUCTURE	49.774	48.931	49.617	49.394	49.671	49.394	50.002	49.594	50.222	49.880	50.021	49.880
HGL IN PIPE	49.671	49.126 48.908	49.615	49.394 49.368	49.601	49.394 49.368	49.883	49.594 49.570	50.123	49.880 49.849	49.916	49.880 49.849
DEPTH OF INVERT BELOW FSL	0.964	1.254 2.065	1.117	1.191 1.638	1.130	1.237 1.638	1.152	1.199 1.659	1.113	1.178 1.652	1.319	1.416 1.652
INVERT LEVEL	49.296	49.018 48.208	49.240	49.215 48.768	49.226	49.169 48.768	49.508	49.430 48.970	49.748	49.722 49.249	49.541	49.485 49.249
FINISHED (& EXISTING) SURFACE LEVEL	50.260 (48.935)	50.272 (48.516)	50.357 (48.454)	50.406 (48.191)	50.356 (47.895)	50.406 (48.191)	50.660 (50.781)	50.630 (51.566)	50.860 (46.382)	50.901 (46.420)	50.860 (46.482)	50.901 (46.420)
CHAINAGE	0.000	7.873 7.873	0.000	2.487 2.487	0.000	5.736 5.736	0.000	7.750 7.750	0.000	2.529 2.529	0.000	5.561 5.561
LINE	248		249		250		251		252		253	

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
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REVISIONS

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CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER
JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE STORMWATER DRAINAGE LONG SECTIONS - SHEET 3 OF 3

JOB CODE MIR001-05
SHEET NUMBER C405
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/s	m	m	m	m	m	m	m	
1A/113	1B/113	1A/113	21	76	0.6	0.83	0.5	105	105		0.12		145	105	0	1B/113	21	76	0.5	0	105	15.625	7.62	375	2	0.95	0.06	32	1		1.74	0.046	5.96	0.276		0.276	7.63	1.195	0.119	3.5	55.672	54.481	55.672	54.477	55.948	56.12	1A/113
1B/113	1/113	1A/113 1B/113	6	122	0.6	0.009	0.006	2	2		0.003		28	2	0	1/200	21.06	76	0.505	0	106	21.148	3.63	375	2	0.96	0.12	33 34	0.02	1	1.04	0.047	0.35	0.017		0.017	3.67	0.776	0.146	2.68	54.461	53.694	54.461	53.684	54.477	55.242	1B/113
1/113	2/113	1A/113 1B/113 1/113	9	109	0	0.23	0	0	0			2.74		0	0	1/200	21.18	76	0.505	0	106	31.118	3.85	375	2	0.96	0.17	33 34	0	1	1.03	0.047	0.21	0.01		0.01	3.78	1.179	0.143	2.74	53.674	52.475	53.674	52.495	53.684	54.698	1/113
2/113	3/113	1A/113 1B/113 1/113 2/113	8	113	0.75	0.211	0.158	50	50	1.875	0.061	3.95	363	46	4	4/113	21.34	75	0.663	0	135	34.48	1.74	450	2	0.85	0.24	33 34	0.3	0.83	1.1	0.037	1.22	0.045		0.045	1.57	0.542	0.186	2.17	52.45	51.85	52.45	51.908	52.495	53.459	2/113
3/113	4/113	1A/113 1B/113 1/113 2/113 3/113	6	122	0.64	0.022	0.014	5	5	1.05	0.037	0.75	127	5	0	5/113	21.59	75	0.677	0	137	32.951	0.88	525	2	0.63	0.3	46 47	0.03	0.86	1.1	0.02	2.11	0.043	2.69	0.055	0.77	0.256	0.211	1.68	51.865	51.575	51.865	51.609	51.92	52.81	3/113
4/113	5/113	1A/113 1B/113 1/113 2/113 3/113 4/113	6	122	0.75	0.139	0.104	35	39	2.709	0.069	0.76	116	39	0	1/121	21.88	74	0.781	0	162	62.034	0.81	525	2	0.75	0.58	42 46 43 47	0.22	1	1.12	0.028	1.89	0.054	2.19	0.062	0.64	0.396	0.237	1.7	51.555	51.055	51.555	51.159	51.617	52.523	4/113
5/113	6/113	1A/113 1B/113 1/113 2/113 3/113 4/113 5/113	6	122	0.75	0.325	0.243	82	82	3.655	0.098	0.5	106	76	7	1/252	9.12	109	0.707	0	206	6.03	1.82	600	2	0.73	0.03	37 42 43	0.32	0.88	1.09	0.027	1.8	0.049	2.04	0.055	1.68	0.102	0.204	2.43	51.11	51	51.11	51.008	51.165	52.004	5/113
6/113	7/113	1/121 1A/113 1B/113 1/113 2/113 3/113 4/113 5/113															9.16	108	0.953	0	273	45.332	0.84	600	2	0.97	0.38	42 43	0	1	1.13	0.048	1.52	0.072	1.61	0.077	0.83	0.377	0.295	1.97	50.936	50.556	50.936	50.559	51.013	52.041	6/113
7/113																																												50.559	51.532	7/113
1/121	6/113	1/121	6	122	0.75	0.328	0.246	83	83	3.834	0.102	0.5	94	76	7	1/120	6	122	0.246	0	76	2.487	1	375	2	0.69	0.03	32	1		1.6	0.024	9.18	0.223		0.223	1.76	0.043	0.173	1.53	51.052	51.027	51.052	51.008	51.275	51.993	1/121
1/200	2/200	1/200	21	76	0.6	2.122	1.278	269	269	3.225	0.088		1128 8	269	0	1/252	21	76	1.278	0	269	24.568	5	600x300	2	1.5	0.11	Inlet Control			1.63	0.114	1.67	0.19		0.19	5.17	1.23	0.13	3.47	51.15	49.922	51.15	49.88	51.34	51.6	1/200
2/200	3/200	1/252 1/253 1/200															21.11	76	1.559	0	333	23.327	1.11	600	2	1.18	0.17	34 37	0	1	1.05	0.071	0.45	0.032		0.032	1.09	0.255	0.305	2.3	49.849	49.59	49.849	49.594	49.88	50.901	2/200
3/200	4/200	1/251 1/252 1/253 1/200															21.28	75	1.841	0	391	23.667	0.77	600	2	1.38	0.21	33 34	0	1	1.04	0.097	0.25	0.024		0.024	0.74	0.176	0.379	2.08	49.57	49.388	49.57	49.394	49.594	50.63	3/200
4/200	5/200	1/249 1/250 1/251 1/252 1/253 1/200															21.49	75	1.981	0	420	14.166	3.43	600	2	1.49	0.06	33 34	0	1	1.04	0.113	0.23	0.026		0.026	3.09	0.437	0.252	3.72	49.368	48.883	49.368	48.931	49.394	50.406	4/200
5/200	6/200	1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200															21.55	75	2.287	0	483	31.275	0.3	675	2	1.35	0.4	33 34	0	1	1.07	0.093	0.24	0.023		0.023	0.33	0.103	0.59	1.46	48.883	48.789	48.908	48.805	48.931	50.272	5/200
6/200	7/200	1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200															21.95	74	2.535	0	526	50.071	0.62	750	2	1.19	0.42	33 34	0	1	1.02	0.072	0.23	0.016		0.016	0.31	0.153	0.419	2.07	48.789	48.48	48.789	48.636	48.805	49.977	6/200
7/200	8/200	1/224 1/225 1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200															18.87	80	2.902	0	655	5.893	0.45	750	2	1.48	0.06	37 42	0	1	1.31	0.112	0.79	0.088		0.089	0.35	0.02	0.544	1.91	48.405	48.378	48.548	48.527	48.636	49.514	7/200
8/200	9/200	1/223 2/223 1/224 1/225 1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200															18.93	80	3.213	0	713	40.251	1.7	900	2	1.12	0.18	37 42 43	0	0.97	1.09	0.064	1.11	0.071	1.2	0.077	1.65	0.664	0.339	3.25	48.456	47.771	48.456	47.792	48.533	49.514	8/200
9/200																																											47.792	48.809	9/200
1/211	1A/211	1/211	6	122	0.75	0.054	0.041	14	14	1.148	0.039	4.59	323	14	0	1/217	6	122	0.041	0	14	12.757	3.26	375	2	0.12	0.08	32	1		1.02	0.001	9.7	0.008		0.008	2.57	0.334	0.053	1.42	58.665	58.25	58.665	58.331	58.673	59.641	1/211
1A/211	2/211	1/211 1A/211	6	122	0.75	0.26	0.195	66	66	2.197	0.063	4.59	318	56	10	2/211	6	122	0.235	0	69	75.463	4.87	375	2	0.63	0.36	32 34 37	0.8	1	1.27	0.02	5.09	0.102		0.102	4.69	3.539	0.107	2.65	58.23	54.553	58.23	54.69	58.331	59.183	1A/211
2/211	3/211	1/217 1/211 1A/211 2/211	6	122	0.75	0.292	0.219	74	85	2.36	0.067	5.25	340	66	18	3/211	6.36	121	0.502	0	150	39.705	6.35	375	2	1.36	0.17	33 34	0.44	1	1.5	0.094	1.98	0.186		0.186	5.85	2.322	0.151	3.61	54.505	51.985	54.505	52.183	54.69	55.405	2/211
3/211	4/211	1/217 1/211 1A/211 2/211 3/211	6	122	0.75	0.151	0.113	38	57	1.916	0.056	7.06	390	49	7	1/213	6.52	120	0.615	0	198	25.851	5.45	375	2	1.79	0.12	33 34	0.25	1	1.58	0.164	1.33	0.218		0.218	4.37	1.132	0.184	3.67	51.965	50.555	51.965	50.833	52.183	53.125	3/211
4/211	5/211	1/217 1/211 1A/211 2/211 3/211 4/211	8	113	0.6	0.429	0.258	81	81		0.03	1.32	375	81	0	2/223	6.72	119	0.832	0	268	29.196	1.57	450	2	1.69	0.22	42 46 43 47	0.29	0.83	1.73	0.145	1.92	0.278	2.26	0.329	1.29	0.377	0.292	2.46	50.555	50.098	50.555	50.177	50.883	51.634	4/211
5/211	6/211	1/213 1/217 1/211 1A/211 2/211 3/211 4/211 5/211	6	122	0.75	0.022	0.016	6	6	0.736	0.03	5	333	6	0	6/211	6.93	118	0.939	0	308	34.811	4.82	450	2	1.94	0.15	34 37	0.02	1	1.22	0.192	0.52	0.099		0.099	2.59	0.9	0.223	3.92	50.078	48.401	50.078	49.178	50.177	50.997	5/211
6/211																																											49.187	49.274	6/211
1/213	5/211	1/213	6	122	0.75	0.12	0.09	30	38	1.726	0.053	5	334	38	0	7/211	6	122	0.09	0	38	7.987	1	375	2	0.34	0.08	32	1		1.36	0.006	9.7	0.058		0.058	0.05	0.004	0.118	1.27	50.102	50.023	50.181	50.177	50.239	51.043	1/213
1/217	2/211	1/217	6	122	0.75	0.065	0.049	17	17	1.207	0.041	5.25	346	17	0	4/211	6	122	0.049	0	17	8.06	1	375	2	0.15	0.08	32	1		1.03	0.001	9.7	0.011		0.011	0.61	0.049	0.078	1	54.739	54.659	54.739	54.69	54.75	55.479	1/217
1/223	2/223	1/223	6	122	0.75	0.127	0.095	32	32	1.657	0.051	4.57	316	32	0	1/222	6	122	0.095	0	32	20.935	3.76	375	2	0.29	0.11	32	1		1.11	0.004	9.7	0.042		0.042	3.63	0.763	0.078	1.93	49.559	48.773	49.559	48.796	49.601	50.543	1/223
2/223	8/200	1/223 2/223	10	105	0.6	0.358	0.216	63	63	2.366	0.068	3.49	251	54	9	1/224	10	105	0.31	0	81	14.881	1.94	450	2	0.51	0.1	32 37 42 43	0.63	0.83	1.12	0.013	4.02	0.054	4.02	0.054	1.44	0.215	0.138	1.96	48.742	48.453	48.742	48.527	48.796	49.722	2/223
1/224	7/200	1/224	10	105	0.6	0.607	0.365	107	120		0.056	0.26	375	120	0	1/225	10	105	0.365	0	120	3.128	1.03	375	2	1.09	0.03	32	1		2.08	0.061	6.67	0.404		0.404	2.63	0.073	0.228	1.71	48.721	48.688	48.721	48.636	49.125	49.461	1/224
1/225	7/200	1/225	6	122	0.75	0.293	0.219	74	74	3.114	0.085	0.94	146	69	5	1/222A	6	122	0.219	0	69	10.642	1.01	375	2	0.62	0.11	32	1		1.51	0.02	9.64	0.192		0.192	1.37	0.145	0.163	1.49	48.783	48.676	48.783	48.636	48.975	49.541	1/225
1/226	6/200	1/226	10	105	0.6	0.412	0.248	72	72	2.985	0.085	0.94	164	68	5	1/224	10	105	0.248	0	68	2.651	1.01	450	2	0.43	0.02	32	1		1.2	0.009	9.7	0.09		0.09	12.2	0.227	0.149	1.47	49.19	49.163	49.19	48.862	49.279	49.937	1/226
1/227	2/227	1/227	6	122	0.75	0.034	0.026	9	9		0	1.27	375	9	0	2/227	6	122	0.026	0	9	9.146	1.01	375	2	0.08	0.1	32	1		1.01	0	9.7	0.003		0.003	1.19	0.11	0.057	0.83	49.12	49.028	49.12	49.011	49.123	50.088	1/227
2/227	5/200	1/227 2/227	6	122	0.75	0.026	0.02	7	7		0	0.6	375	7	0	1/225	6.1	122	0.046	0	15	12.608	0.4	375	2	0.14	0.21	46 47	0.43	1	1.01	0.001	2.27	0.002	2.66	0.003	0.61	0.077	0.094	0.71	49.008	48.958	49.008	48.931	49.011	50.067	2/227
1/248	5/200	1/248	18	82	0.6	0.433	0.261	59	59		0.081		145	59	0	1/226	18	82	0.261	0	59	7.873	3.52	375	2	0.54	0.04	32	1		1.27	0.015	7	0.103		0.103	6.92	0.299	0.108	2.26	49.671	49.393	49.671	49.126	49.774	50.26	1/248
1/249	4/200	1/249	8	113	0.64	0.036	0.023	7	7	1.172	0.041	0.94	170	7	0	1/226	8	113	0.023	0	7	2.487	1	375	2	0.06	0.03	32	1		1.01	0	9.7	0.002		0.002	8.89	0.22	0.052	0.78	49.615	49.59	49.615	49.394	49.617	50.357	1/249
1/250	4/200	1/250	6	122	0.75	0.157	0.118	40	42	2.495	0.065	1.88	163	42	0	1/227	6	122	0.118	0	42	5.735	1	375	2	0.38	0.06	32	1		1.19	0.007	9.7	0.07		0.07	3.61	0.196	0.124	1.3	49.601	49.544	49.601	49.394	49.671	50.356	1/250
1/251	3/200	1/251	18	82	0.6	0.467	0.281	64	64		0.085		145	64	0	1/249	18	82	0.281	0	64	7.75	1	375	2	0.58	0.08	32	1		1.32	0.017	7	0.119		0.119	3.72	0.209	0.157	1.46	49.883	49.805	49.883	49.594	50.002	50.66	1/251
1/252	2/200	1/252	6	122	0.75	0.168	0.126	43	49	2.321	0.071	1.43	215	49	0	1/249	6	122	0.126	0	49	2.512	1.01	375	2	0.45	0.03	32	1		1.26	0.01	9.7	0.099		0.099	9.59	0.189	0.136	1.36	50.123	50.097	50.123	49.88	50.222	50.86	1/252
1/253	2/200	1/253	6	122	0.75	0.208	0.156	53	53	2.472	0.071	1.71	188	51	2	1/250	6	122	0.156	0	51	5.558	1	375	2	0.46	0.06	32	1		1.28	0.011	9.7	0.105		0.105	0.64	0.036	0.138	1.38	49.916	49.86	49.916	49.88	50.021	50.86	1/253

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

BRISBANE OFFICE
LEVEL 1, 100 BRUNSWICK STREET
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
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DESIGNED M. MAIZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

SCALE

ORIGINAL SHEET SIZE A1

CLIENT MIRVAC

PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

LOCATION TEVIOT ROAD, GREENBANK

SHEET TITLE Q2 MINOR STORM CALCULATIONS

JOB CODE MIR001-05

SHEET NUMBER C406

REV 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/s	m	m	m	m	m	m	m	l/s	l/s	
1A/113	1B/113	1A/113	21	169	0.84	0.83	0.697	327	327		145	182	1B/113	21	169	0.697	0	145	15.625	7.62	375	2	1.31	0.06	32	1		2.08	0.088	4.62	0.407		0.407	6.95	1.087	0.141	3.83	55.672	54.481	55.672	54.585	56.079	56.12			1A/113
1B/113	1/113	1A/113 1B/113	6	275	0.84	0.009	0.008	6	188		28	160	1/200	21.06	169	0.705	0	170	21.148	3.63	375	2	1.54	0.12	33 34	0.16	1	1.33	0.121	1.02	0.124		0.124	2.14	0.454	0.19	3.04	54.461	53.694	54.461	54.007	54.585	55.242			1B/113
1/113	2/113	1A/113 1B/113 1/113	9	242	1	0.23	0.23	154	154	2.74	106	48	1/200	21.18	168	0.935	0	229	31.118	3.85	375	2	2.07	0.17	33 34	0.38	1	1.89	0.219	1.52	0.333		0.333	3.23	1.006	0.223	3.33	53.674	52.475	53.674	52.668	54.007	54.698	1680	154	1/113
2/113	3/113	1A/113 1B/113 1/113 2/113	8	252	1	0.211	0.211	148	148	3.95	99	49	4/113	21.34	168	1.146	0	277	34.48	1.74	450	2	1.74	0.24	33 34	0.3	0.83	1.48	0.155	1.22	0.189		0.189	0.94	0.326	0.287	2.58	52.45	51.85	52.479	52.153	52.668	53.459	1743	148	2/113
3/113	4/113	1A/113 1B/113 1/113 2/113 3/113	6	275	0.89	0.022	0.019	15	15	0.75	3	11	5/113	21.59	167	1.165	0	272	32.951	0.88	525	2	1.26	0.3	46 47	0.01	0.86	1.64	0.081	2.07	0.166	2.63	0.212	0.4	0.132	0.316	2	51.865	51.575	51.987	51.855	52.199	52.81	1787	15	3/113
4/113	5/113	1A/113 1B/113 1/113 2/113 3/113 4/113	6	275	1	0.139	0.139	106	155	0.76	90	65	1/121	21.88	166	1.304	0	317	62.034	0.81	525	2	1.46	0.58	42 46 43 47	0.25	1	1.63	0.109	1.88	0.205	2.17	0.237	0.54	0.337	0.362	1.99	51.555	51.055	51.649	51.312	51.886	52.523	1968	155	4/113
5/113	6/113	1A/113 1B/113 1/113 2/113 3/113 4/113 5/113	6	275	1	0.325	0.325	248	260	0.5	114	146	1/252	10.29	231	1.225	0	367	6.03	1.82	600	2	1.3	0.03	37 42 43	0.26	0.88	1.37	0.086	1.71	0.146	1.96	0.168	0.36	0.022	0.28	2.84	51.11	51	51.166	51.144	51.334	52.004	1787	260	5/113
6/113	7/113	1/121 1A/113 1B/113 1/113 2/113 3/113 4/113 5/113												10.32	230	1.553	0	464	45.332	0.84	600	2	1.64	0.38	42 43	0	1	1.37	0.137	1.52	0.208	1.61	0.222	0.76	0.344	0.415	2.22	50.936	50.556	50.936	50.592	51.158	52.041			6/113
7/113																																										50.592	51.532			7/113
1/121	6/113	1/121	6	275	1	0.328	0.328	251	316	0.5	139	177	1/120	6	275	0.328	0	139	2.487	1	375	2	1.26	0.03	32	1		2.42	0.081	5.24	0.424		0.424	0.63	0.016	0.252	1.76	51.052	51.027	51.16	51.144	51.584	51.993	1787	316	1/121
1/200	2/200	1/200	21	169	0.84	2.122	1.783	835	1043		383	661	1/252	21	169	1.783	0	383	24.568	5	600x300	2	2.13	0.11	Inlet Control			2.5	0.231	1.95	0.45		0.45	5.25	1.156	0.165	3.86	51.15	49.922	51.15	49.86	51.6	51.6	2531	1043	1/200
2/200	3/200	1/252 1/253 1/200												21.11	168	2.159	0	272	23.327	1.11	600	2	0.96	0.17	33 34	0	1	1.02	0.047	0.24	0.011		0.011	1.09	0.254	0.272	2.19	49.849	49.59	49.849	49.595	49.86	50.901			2/200
3/200	4/200	1/251 1/252 1/253 1/200												21.28	168	2.551	0	355	23.667	0.77	600	2	1.25	0.21	34 37	0	1	1.04	0.08	0.31	0.025		0.025	0.69	0.163	0.355	2.03	49.57	49.388	49.57	49.408	49.595	50.63			3/200
4/200	5/200	1/249 1/250 1/251 1/252 1/253 1/200												21.49	167	2.74	0	435	14.166	3.43	600	2	1.54	0.06	34 37	0	1	1.07	0.121	0.33	0.039		0.039	1.37	0.194	0.258	3.75	49.368	48.883	49.368	49.174	49.408	50.406			4/200
5/200	6/200	1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200												21.55	167	3.165	0	507	31.275	0.3	675	2	1.42	0.4	33 34	0	1	1.43	0.102	0.25	0.026		0.026	0.36	0.114	0.675	1.42	48.883	48.789	49.148	49.034	49.174	50.272			5/200
6/200	7/200	1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200												21.95	166	3.511	0	679	50.071	0.62	750	2	1.54	0.42	34	0	1	1.33	0.12	0.27	0.032		0.032	0.37	0.186	0.496	2.19	48.789	48.48	49.002	48.816	49.034	49.977			6/200
7/200	8/200	1/224 1/225 1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200												19.17	176	4.042	0	854	5.893	0.45	750	2	1.93	0.06	37 42 43	0	1	1.55	0.191	0.89	0.17	0.91	0.173	0.59	0.035	0.75	1.93	48.405	48.378	48.646	48.611	48.819	49.514			7/200
8/200	9/200	1/223 2/223 1/224 1/225 1/226 1/227 2/227 1/248 1/249 1/250 1/251 1/252 1/253 1/200												18.93	177	4.437	0	1033	40.251	1.7	900	2	1.62	0.18	37 42 43	0	0.97	1.19	0.135	1.15	0.155	1.25	0.168	1.54	0.619	0.416	3.59	48.456	47.771	48.456	47.837	48.624	49.514			8/200
9/200																																									47.837	48.809			9/200
1/211	1A/211	1/211	6	275	1	0.054	0.054	41	41	4.59	41	1	1/217	6	275	0.054	0	41	12.757	3.26	375	2	0.37	0.08	32	1		1.18	0.007	9.7	0.068		0.068	0.55	0.072	0.091	1.96	58.665	58.25	58.665	58.593	58.733	59.641	1607	41	1/211
1A/211	2/211	1/211 1A/211	6	275	1	0.26	0.26	199	199	4.59	120	78	2/211	6	275	0.313	0	161	75.463	4.87	375	2	1.45	0.36	32 34 37	0.75	1	1.97	0.108	3.37	0.364		0.364	4	3.016	0.168	3.34	58.23	54.553	58.23	55.213	58.593	59.183			1A/211
2/211	3/211	1/217 1/211 1A/211 2/211	6	275	1	0.292	0.292	223	302	5.25	153	148	3/211	6.36	271	0.671	0	352	39.705	6.35	375	2	3.19	0.17	33 34	0.43	1	2.89	0.519	1.37	0.709		0.709	5.66	2.248	0.253	4.44	54.505	51.985	54.505	52.256	55.213	55.405	1607	302	2/211
3/211	4/211	1/217 1/211 1A/211 2/211 3/211	6	275	1	0.151	0.151	116	264	7.06	4	260	1/213	6.52	269	0.822	0	349	25.851	5.45	375	2	3.16	0.12	33 34	0.01	1	1.78	0.511	0.3	0.155		0.155	3.97	1.027	0.267	4.16	51.965	50.555	52.101	51.074	52.256	53.125	1567	264	3/211
4/211	5/211	1/217 1/211 1A/211 2/211 3/211 4/211	8	252	0.84	0.429	0.36	252	256	1.32	27	229	2/223	6.72	266	1.125	0	344	29.196	1.57	450	2	2.16	0.22	42 46 43 47	0.07	0.83	2.34	0.238	1.54	0.367	1.89	0.45	1.45	0.424	0.355	2.55	50.555	50.098	50.707	50.283	51.157	51.634			4/211
5/211	6/211	1/213 1/217 1/211 1A/211 2/211 3/211 4/211 5/211	6	275	1	0.022	0.022	17	17	5	17	0	6/211	6.86	265	1.263	0	401	34.811	4.82	450	2	2.52	0.15	34 37	0.04	1	1.46	0.324	0.63	0.205		0.205	2.31	0.804	0.262	4.18	50.078	48.401	50.078	49.274	50.283	50.997	1631	17	5/211
6/211																																									49.259	49.274			6/211
1/213	5/211	1/213	6	275	1	0.12	0.12	92	352	5	53	299	7/211	6	275	0.12	0	53	7.987	1	375	2	0.48	0.08	32	1		1.76	0.012	8.29	0.097		0.097	0.09	0.007	0.141	1.39	50.102	50.023	50.29	50.283	50.388	51.043	1631	352	1/213
1/217	2/211	1/217	6	275	1	0.065	0.065	50	50	5.25	46	4	4/211	6	275	0.065	0	46	8.06	1	375	2	0.42	0.08	32	1		2.41	0.009	5.3	0.047		0.047	0.07	0.006	0.131	1.34	54.739	54.659	55.219	55.213	55.266	55.479			1/217
1/223	2/223	1/223	6	275	1	0.127	0.127	97	97	4.57	73	24	1/222	6	275	0.127	0	73	20.935	3.76	375	2	0.66	0.11	32	1		1.56	0.022	9.37	0.21		0.21	1.58	0.331	0.118	2.45	49.559	48.773	49.559	49.228	49.769	50.543	1680	97	1/223
2/223	8/200	1/223 2/223	10	233	0.84	0.358	0.301	195	424	3.49	189	234	1/224	10	233	0.428	0	248	14.881	1.94	450	2	1.56	0.1	32 37 42	0.72	0.83	2.08	0.124	3.92	0.486		0.486	0.88	0.131	0.257	2.63	48.742	48.453	48.742	48.611	49.228	49.722	1714	424	2/223
1/224	7/200	1/224	10	233	0.84	0.607	0.51	330	1586	0.26	194	1393	1/225	10	233	0.51	0	194	3.128	1.03	375	2	1.75	0.03	32	1		2.97	0.157	3.86	0.605		0.605	1.22	0.039	0.375	1.75	48.721	48.688	48.855	48.816	49.46	49.461			1/224
1/225	7/200	1/225	6	275	1	0.293	0.293	224	1884	0.94	173	1711	1/222A	6	275	0.293	0	173	10.642	1.01	375	2	1.57	0.11	32	1		2.79	0.125	4.26	0.534		0.534	0.97	0.104	0.303	1.81	48.783	48.676	48.92	48.816	49.454	49.541	1968	1884	1/225
1/226	6/200	1/226	10	233	0.84	0.412	0.346	224	1270	0.94	248	1022	1/224	10	233	0.346	0	248	2.651	1.01	450	2	1.56	0.02	32	1		2.43	0.124	5.19	0.644		0.644	5.67	0.068	0.325	2.02	49.19	49.163	49.19	49.037	49.833	49.937	1968	1270	1/226
1/227	2/227	1/227	6	275	1	0.034	0.034	26	249	1.27	36	213	2/227	6	275	0.034	0	36	9.146	1.01	375	2	0.32	0.1	32	1		3.58	0.005	3.17	0.017		0.017	0.04	0.004	0.115	1.25	49.12	49.028	50.071	50.067	50.088	50.088	1904	249	1/227
2/227	5/200	1/227 2/227	6	275	1	0.026	0.026	20	234	0.6	-34	267	1/225	6.1	274	0.061	0	2	12.608	0.4	375	2	0.02	0.21	46 47	0	1	1.44	0	2.09	0	2.66	0	0	0	0.035	0.38	49.008	48.958	49.174	49.174	49.174	50.067			2/227
1/248	5/200	1/248	18	181	0.84	0.433	0.364	183	183		104	79	1/226	18	181	0.364	0	104	7.873	3.52	375	2	0.94	0.04	32	1		1.72	0.045	6.02	0.271		0.271	6.31	0.249	0.145	2.64	49.671	49.393	49.671	49.174	49.942	50.26		183	1/248
1/249	4/200	1/249	8	252	0.89	0.036	0.032	22	1051	0.94	84	967	1/226	8	252	0.032	0	84	2.487	1	375	2	0.76	0.03	32	1		1.68	0.029	8.71	0.256		0.256	8.34	0.127	0.183	1.57	49.615	49.59	49.615	49.408	49.871	50.357	1968	1051	1/249
1/250	4/200	1/250	6	275	1	0.157	0.157	120	279	1.88	56	223	1/227	6	275	0.157	0	56	5.735	1	375	2	0.51	0.06	32	1		1.34	0.013	9.7	0.127		0.127	3.38	0.178	0.145	1.41	49.601	49.544	49.601	49.408	49.728	50.356	1968	279	1/250
1/251	3/200	1/251	18	181	0.84	0.467	0.392	197	197		101	96	1/249	18	181	0.392	0	101	7.75	1	375	2	0.91	0.08	32	1		1.69	0.042	6.14	0.26		0.26	3.21	0.154	0.204	1.64	49.883	49.805	49.883	49.634	50.143	50.66		197	1/251
1/252	2/200	1/252	6	275	1	0.168	0.168	128	935	1.43	2	932	1/249	6	275	0.168	0	2	2.512	1.01	375	2	0.02	0.03	32	1		1	0	9.7	0		0	10.39	0.262	0.031	0.56	50.123	50.097	50.123	49.86	50.123	50.86	1968	935	1/252
1/253	2/200	1/253	6	275	1	0.208	0.208	159	159	1.71	0	159	1/250	6	275	0.208	0	0	5.558	1	375	2	0	0.06	32	1		1	0	9.7	0		0	1	0.056	0.004	0.15	49.916	49.86	49.916	49.86	49.916	50.86	1968	159	1/253

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	A	ORIGINAL ISSUE	MM	JS

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 M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

SCALE

ORIGINAL SHEET SIZE A1

CLIENT MIRVAC

PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

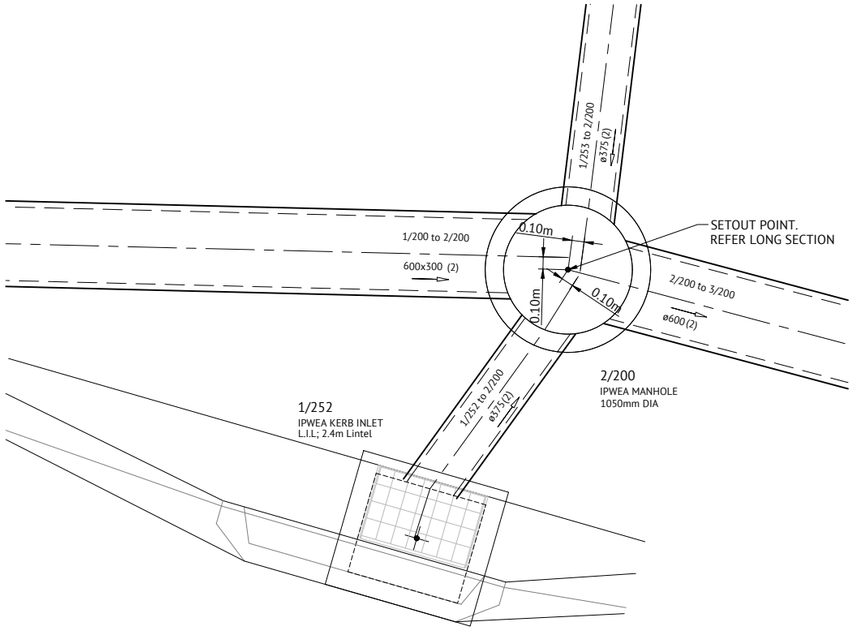
LOCATION TEVIOT ROAD, GREENBANK

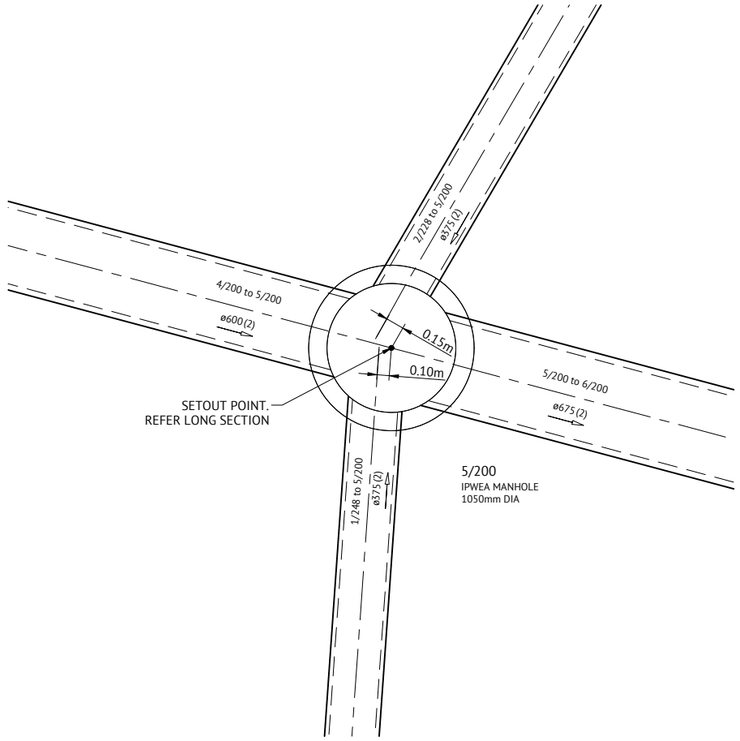
SHEET TITLE Q100 MAJOR STORM CALCULATIONS

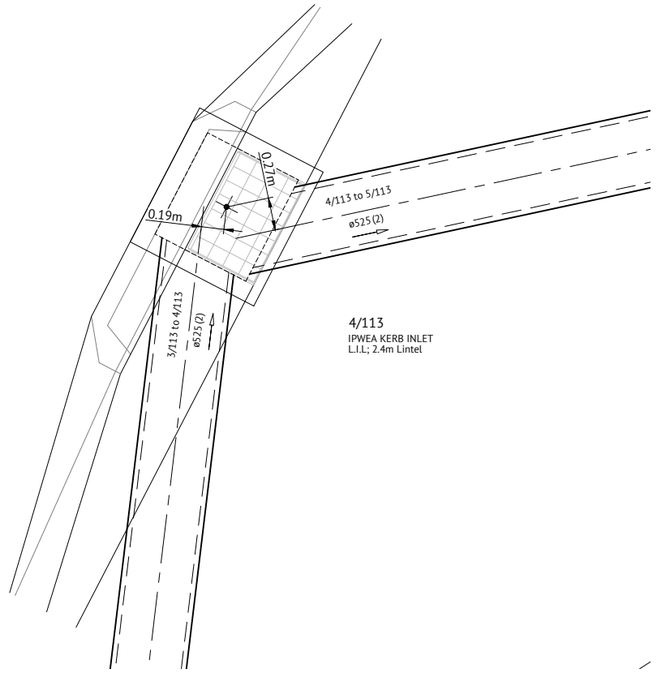
JOB CODE MIR001-05

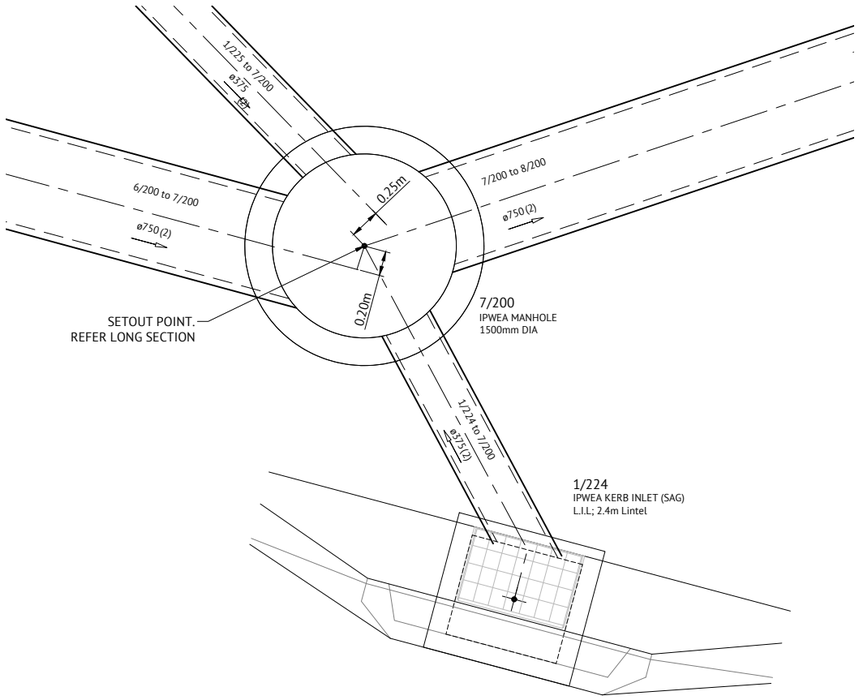
SHEET NUMBER C407

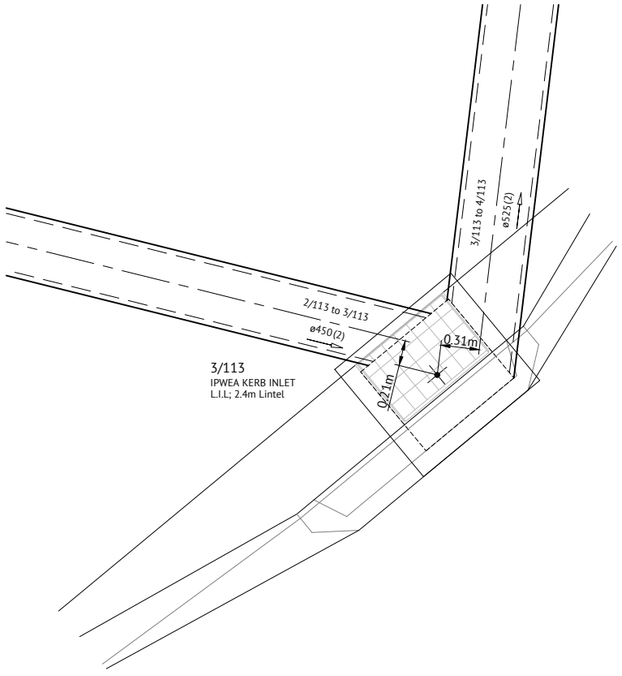
REV A











FOR CONSTRUCTION

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PROJECT CERTIFIER: JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: STORMWATER STRUCTURE DETAILS

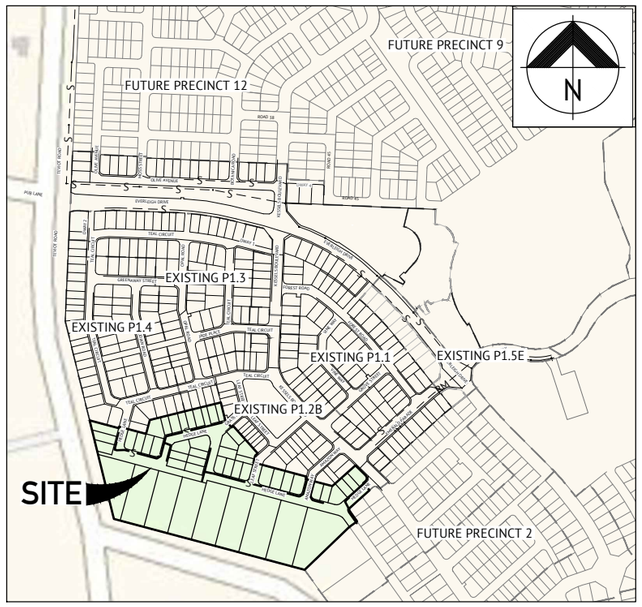
JOB CODE: MIR001-05
SHEET NUMBER: C408
REV: A

EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

SEWERAGE RETICULATION



LOCALITY PLAN

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 2
C504	SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 2
C505	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. CALCAREOUS CONCRETE IN MAINTENANCE HOLES REQUIRED IN ACCORDANCE WITH SEQ WS&S D&C CODE REQUIREMENTS.

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 1.5A SUBDIVISION DEVELOPMENT
SUBDIVIDER		MIRVAC
APPLICATION No.		-
SP DELEGATE APPROVAL DATE		5 JUNE 2017
COUNCIL DA APPROVAL No.		DEV 2016 / 768
DRAWING/PLAN No.		C501-C505
No. OF ALLOTMENTS		50
AREA IN Ha.		6.88 Ha
LENGTH OF SEWERS	DN150 uPVC SN8	732m
	DN100 uPVC SN8	121m

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION		
15/11/19	B	AMENDED PIPE LENGTHS	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

REVISIONS

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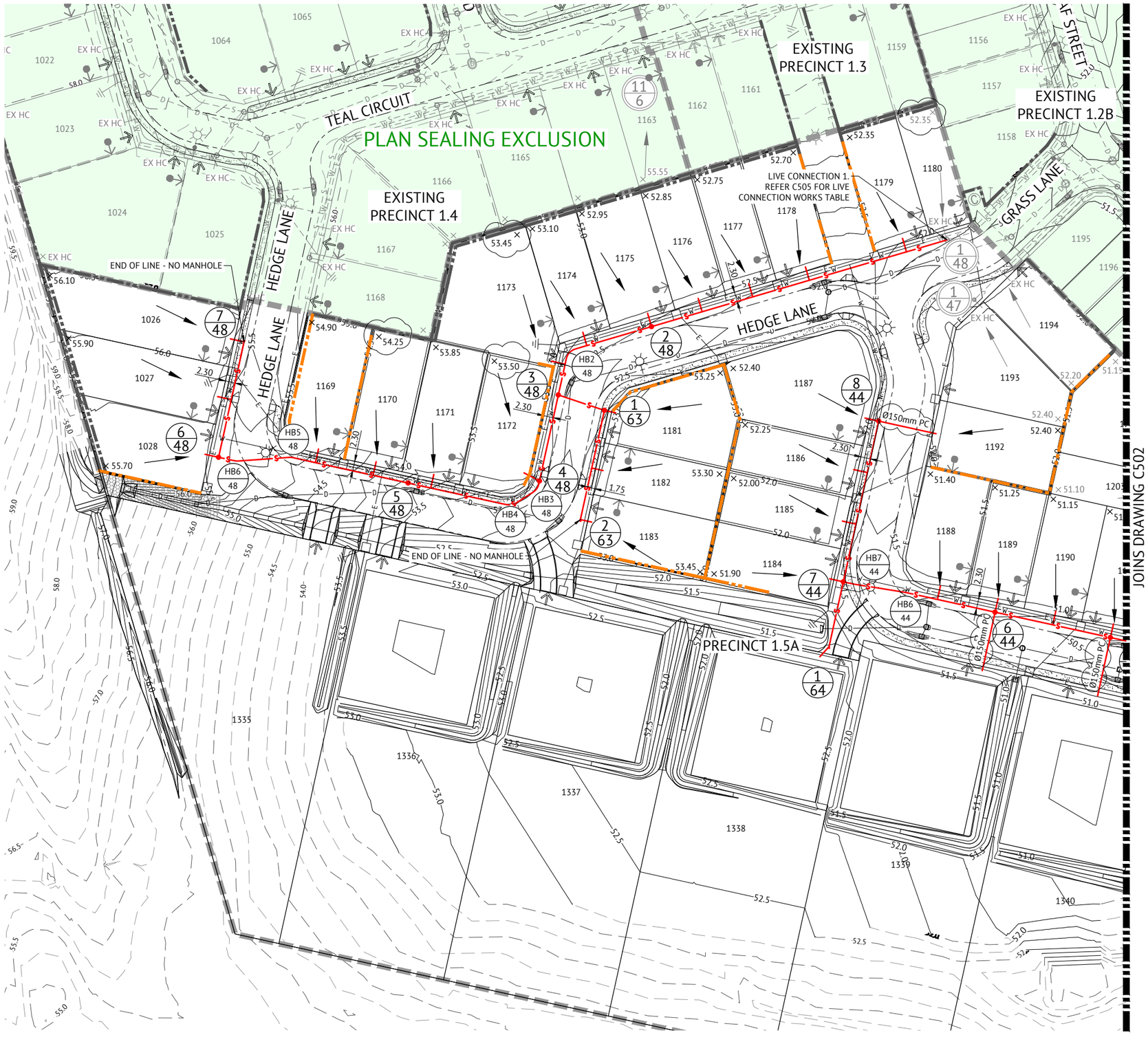
PO BOX 361
FORTITUDE VALLEY, QLD 4006
PH: (07) 3253 2222
WEB: www.premise.com.au

DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RETICULATION LOCALITY PLAN & NOTES

JOB CODE MIR001-05
SHEET NUMBER C500
REV B



LEGEND - PROPOSED

- GRAVITY SEWER
- Ø100mm PROPERTY CONNECTION. 1.2m OFFSET TO BDY OR 6.5m WHERE ZERO LOT LINE EXISTS (U.N.O.).
- Ø150mm PC — EXTENDED PROPERTY CONNECTION. REFER TO DWG C505 FOR DETAILS
- MAINTENANCE STRUCTURE
- 1/1 — PROPOSED MAINTENANCE HOLE OR MAINTENANCE SHAFT NUMBER. REFER LONG SECTION DRAWINGS FOR STRUCTURE DETAILS.
- HB1 / 1 — HORIZONTAL BEND (3m RADIUS).
- 38 — LOT NUMBER
- TS — TRUNK SEWER
- D — STORMWATER DRAINAGE
- W — DRINKING WATER MAIN
- E — ELECTRICAL (PROPOSED)
- 12.0 — FINISHED CONTOURS (0.50m)
- ZERO LOT LINE
- FUTURE DRIVEWAY LOCATION
- PROPOSED RETAINING WALL
- STAGE BOUNDARY

LEGEND - EXISTING

- EX HC — Ø100mm EXISTING PROPERTY CONNECTION
- STORMWATER DRAINAGE
- GRAVITY SEWER
- SEWER RISING MAIN
- DRINKING WATER MAIN

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

ALL PROPERTY CONNECTIONS DIA 100 PVC UNLESS OTHERWISE DENOTED.

FOR SEWERAGE RETICULATION NOTES REFER DWG No. C500.

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

LOTS 1335, 1336 & 1337 ARE NOT CONNECTED TO THE RETICULATED SEWER NETWORK. ON-SITE SEWAGE TREATMENT IN ACCORDANCE WITH COUNCIL STANDARDS SHALL BE PROVIDED BY THE PRIVATE OWNER.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	B	ADDED ELEC LINEWORK, TEVIOT ROAD SWALE, INT LOTS AND SWALES, AMENDED PIPE SIZES, LEVELS AND NOTE	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

REVISIONS

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DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RETICULATION LAYOUT PLAN - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C501
REV B

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	C	AMENDED ROAD NAME	MM	PB
15/11/19	B	ADDED ELEC LINEWORK, TEVIOT ROAD SWALE, INT LOTS AND SWALES, AMENDED PIPE SIZES	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

REVISIONS

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DESIGNED: M. MAJZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY 23/06/20 RPEQ 7112

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: SEWERAGE RETICULATION LAYOUT PLAN - SHEET 2 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C502
REV: C

LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.0Ø
B	CONCRETE MANHOLE 1.2Ø
C	CONCRETE MANHOLE 1.5Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL TANGENT POINT

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

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH STRUCTURE
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
Z	VERTICAL DROP (RISER)
VORT	INTERNAL VORTEX DROP

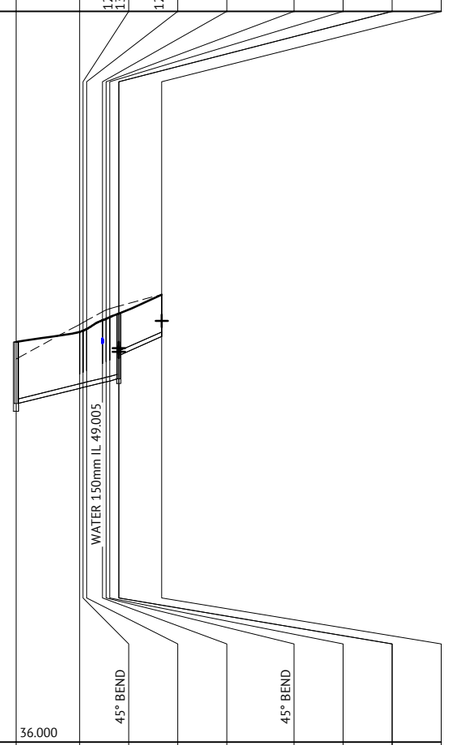
PROPERTY CONNECTION TYPES	
A	TYPE A - STD
B	TYPE B - SLOPE UP
D	TYPE D - VERTICAL

✳ 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).

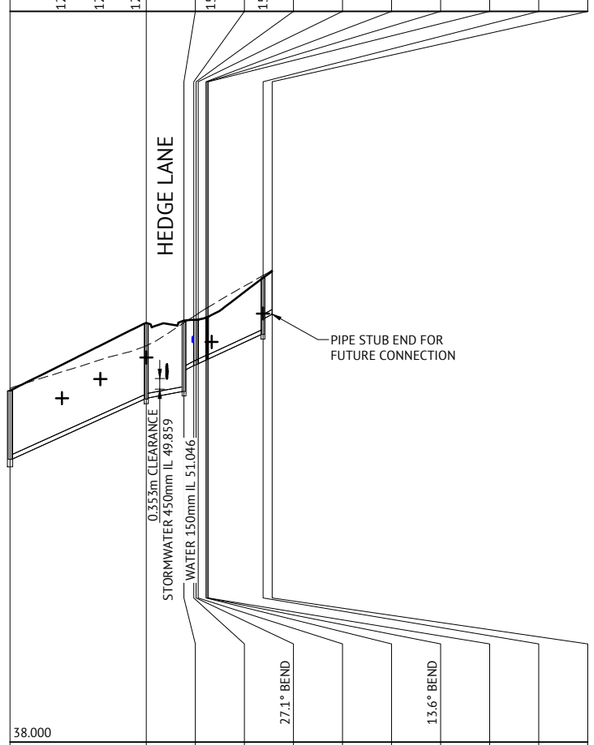
LINE 41

MAINTENANCE HOLE / SHAFT NO.	2/41		HB4/41				HB5/41			3/41	E/41
MH / MS COVER TYPE										B	
MH / MS TYPE	EX	HTP	HB	HTP	HTP	HB	HTP			A	END
MH DROP TYPE										V	
LINE NO.										41	
PROPERTY CONNECTION DEPTH		1.095 1.350	0.855								
PROPERTY CONNECTION INVERT LEVEL		48.850 48.830	49.736								
PROPERTY CONNECTION TYPE		1220 B4 1343 D(AR)	1221 B2								
LOT NO.											
DATUM RL	36.000										
PROPERTY DESCRIPTION				RR							
PIPE SIZE (mm), CLASS				DN150 uPVC SN8							
GRADE (1 IN X)	42	42	42	42	42	42	42	24			
LENGTH	20.678	1.178	1.178	5.122	1.178	1.178	2.995	14.000			
EMBEDMENT TYPE				TYPE 3							
DEPTH OF INVERT BELOW FSL	2.013	1.837	1.848	1.878	2.037	2.055	2.081	2.131	1.346	1.365	
INVERT LEVEL (IL)	47.042	47.538	47.566	47.594	47.717	47.746	47.774	47.846	48.631	49.226	
FINISHED SURFACE LEVEL (FSL)	49.054	49.374	49.414	49.473	49.755	49.801	49.855	49.977		50.591	
EXISTING SURFACE LEVEL (ESL)	48.491	49.617	49.682	49.749	50.033	50.093	50.136	50.218		50.594	
CHAINAGE (CH)	0.000	TP 20.678	IP 21.856	TP 23.035	TP 28.156	IP 29.334	TP 30.513	33.508		47.508	



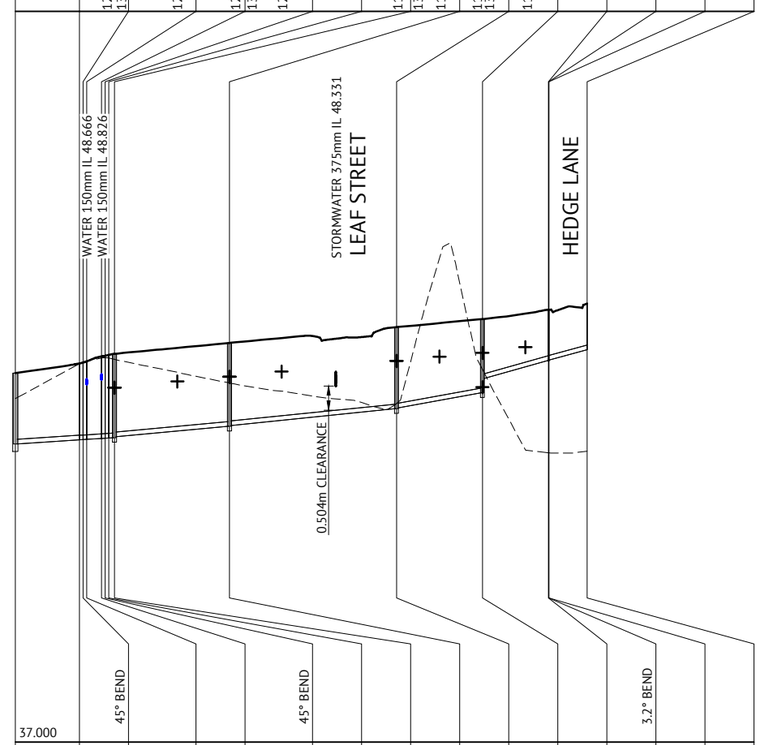
LINE 42

	1/42		2/42	3/42		HB2/42			HB3/42		4/42	PE/42
			B	B							B	
	EX		A	A	HTP	HB	HTP	HTP	HB	HTP	A	END
			V	X							W	
			42	42							42	
	1.147	1.189 1.350		0.878	1.235							
	49.164	49.746 50.291		51.051	51.836							
	1227 D2	1228 D2 1229 D4		1526 B2	1525 B4							
	38.000											
					RR							
					DN150 uPVC SN8							
	23		58	22	22	22	22	22	22	22	22	
	44.490		12.285	3.206	0.711	0.711	2.568	0.356	0.356	17.871	3.000	
					TYPE 3							
2.235		2.482	2.442	2.307	1.611	1.492	1.462	1.438	1.386	1.383	1.382	1.845	1.315	1.391
47.227		49.184	49.224	49.437	50.133	50.277	50.309	50.341	50.457	50.473	50.489	51.293	51.823	51.958
49.462		51.666		51.744	51.769	51.771	51.779	51.843	51.855	51.871	53.138		53.350
49.537		50.925		51.677	51.880	51.927	51.975	52.139	52.161	52.183	53.215		53.393
0.000		44.490		56.775	59.981	60.692	61.403	63.970	64.327	64.683	82.554		85.554



LINE 44

	2/44		HB4/44			HB5/44			3/44	4/44	5/44	6/44		HB6/44		
									B	B	B	B				
	EX	HTP	HB	HTP	HTP	HB	HTP		A	A	A	A	HTP	HB	HTP	HTP
									V	V	V	V				
									44	44	44	44				
		1.095 1.350	1.095	1.095 1.350	1.095		1.095	1.350 1.095	1.095 1.350	1.095						
		48.556 48.574	48.762	48.915 48.850	49.083		49.429	49.370 49.569	49.694 49.700	49.878						
		1207 D4 1342 D(AR)	1206 D2	1205 D4 1341 D(AR)	1204 D2		1191 D4	1340 D(AR) 1190 D2	1189 B4 1339 D(AR)	1188 B2						
	37.000															
									RR							
									DN150 uPVC SN8							
	159	159	159	159	159	159	159	111	100	57	36	36	36	36	36	36
	20.906	1.178	1.178	4.800	1.178	1.178	1.906	37.500	54.500	28.000	21.556	0.084	0.084	12.413		
									TYPE 3							
2.306	2.491	2.510	2.544	2.673	2.687	2.708	2.734	2.704	2.720	2.690	2.660	2.630	2.404	1.939	1.650	1.648	1.646	1.544
46.726	46.858	46.865	46.873	46.905	46.910	46.918	46.930	46.960	47.297	47.327	47.872	47.902	48.392	48.858	49.451	49.454	49.456	49.797
49.032	49.348	49.376	49.417	49.576	49.598	49.626	49.664		50.018	50.532		50.796			51.101	51.101	51.102	51.341
48.208	49.337	49.392	49.427	49.526	49.538	49.524	49.480		48.711	48.043		49.151			46.434	46.433	46.432	46.490
0.000	TP 20.906	IP 22.084	TP 23.262	TP 28.062	IP 29.240	TP 30.418	32.324		69.824	124.324		152.324			TP 173.880	IP 173.964	TP 174.047	TP 186.460



FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
22/06/20	C	AMENDED PROPERTY CONNECTION TYPE (LOT 1343)	MM	PB
15/11/19	B	AMENDED INVERT LEVELS AND HOUSE CONNECTION DETAILS	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

REVISIONS

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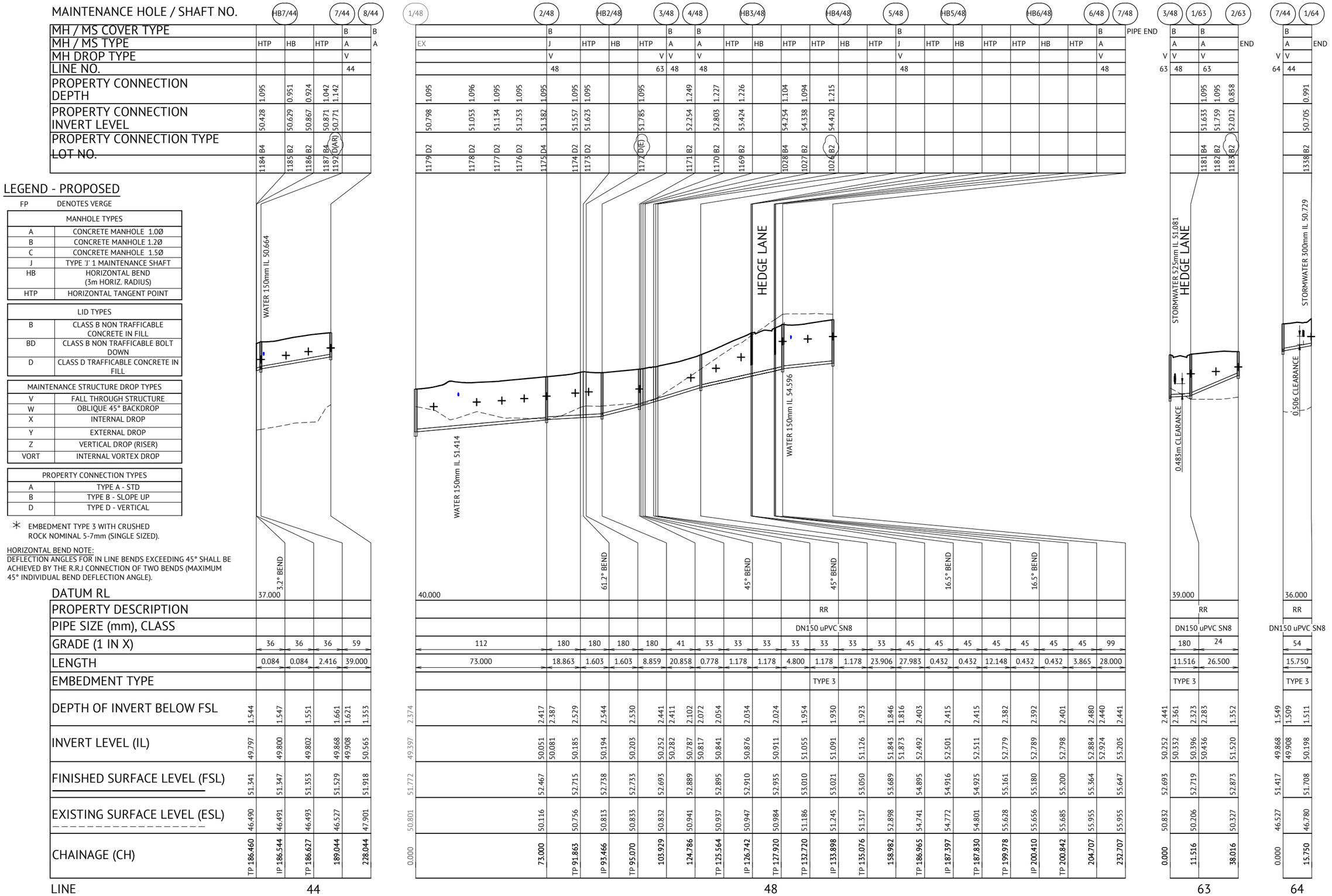
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY 22/06/20 RPEQ 7112

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RETICULATION LONG SECTIONS - SHEET 1 OF 2

JOB CODE MIR001-05
SHEET NUMBER C503
REV C



LEGEND - PROPOSED

FP DENOTES VERGE

MANHOLE TYPES	
A	CONCRETE MANHOLE 1.00Ø
B	CONCRETE MANHOLE 1.20Ø
C	CONCRETE MANHOLE 1.50Ø
J	TYPE 'J' 1 MAINTENANCE SHAFT
HB	HORIZONTAL BEND (3m HORIZ. RADIUS)
HTP	HORIZONTAL TANGENT POINT

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

MAINTENANCE STRUCTURE DROP TYPES	
V	FALL THROUGH STRUCTURE
W	OBLIQUE 45° BACKDROP
X	INTERNAL DROP
Y	EXTERNAL DROP
Z	VERTICAL DROP (RISER)
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).

REVISIONS				
DATE	REV	DESCRIPTION	REC	APP
22/06/20	C	AMENDED PROPERTY CONNECTION TYPE (LOTS 1192,1172,1026 AND 1183)	MM	PB
15/11/19	B	AMENDED INVERT LEVELS AND HOUSE CONNECTION DETAILS	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

FOR CONSTRUCTION

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DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER PAT BRADY RPEQ 7112 22/06/20

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE SEWERAGE RETICULATION LONG SECTIONS - SHEET 2 OF 2

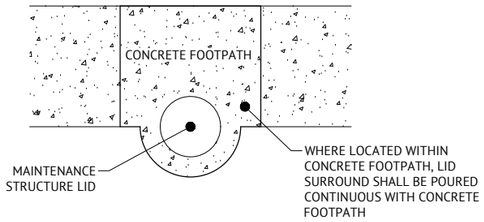
JOB CODE MIR001-05
SHEET NUMBER C504
REV C

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 1/48, CONSTRUCTOR TO LAY NEW LINE 48. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/48	MH	B	1180	51.772	50.801	49.397	2.375
1(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 48 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
2(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 2/44, CONSTRUCTOR TO LAY NEW LINE 44. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	2/44	MH	B	1207	49.032	48.208	46.726	2.306
2(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 44 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
3(A)	0.5m FROM STUB END CAP, ON EXISTING MANHOLE 2/41, CONSTRUCTOR TO LAY NEW LINE 41. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	2/41	MH	B	1220	49.054	48.491	47.042	2.012
3(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 41 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									
4(A)	0.5m FROM STUB END CAP, ON EXISTING MAINTENANCE SHAFT 1/42, CONSTRUCTOR TO LAY NEW LINE 42. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY AGENCY.	150	1/42	MH	B	1226	49.462	49.537	47.237	2.225
4(B)	AGENCY TO REMOVE TEMPORARY END CAP ON STUB AND LINE 42 AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.									

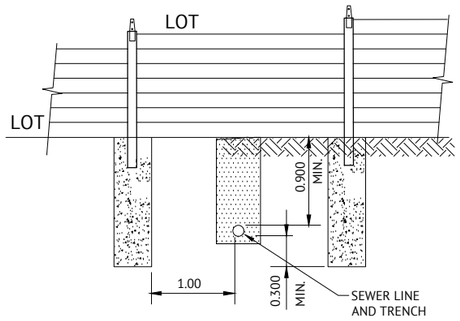
LEVELS IN THE LIVE SEWER TABLE ARE DESIGN LEVELS.
AS CONSTRUCTED INFORMATION TO BE ADDED WHEN AVAILABLE.

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.



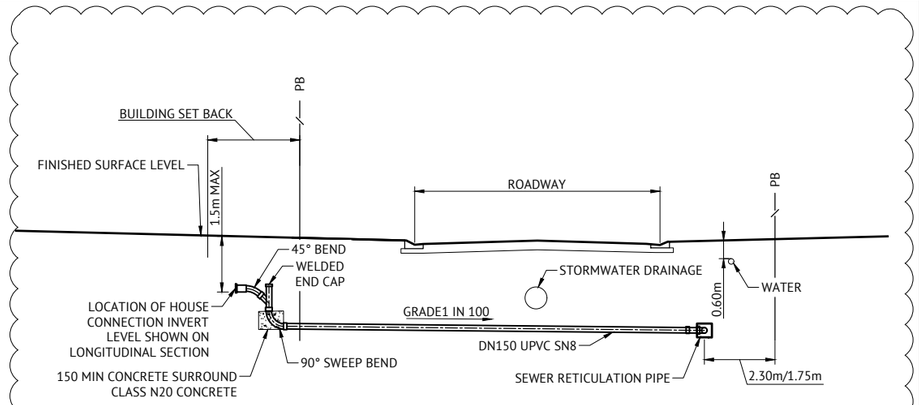
TYPICAL MAINTENANCE STRUCTURE IN CONCRETE FOOTPATH DETAIL

NTS



SEWER LINE CROSSING CONCRETE SLEEPER RETAINING WALL BRIDGING SLAB DETAIL

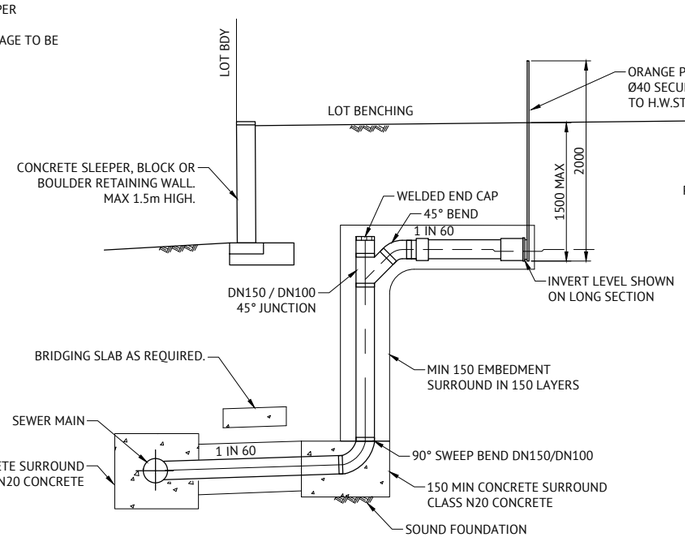
NTS



ELEVATION

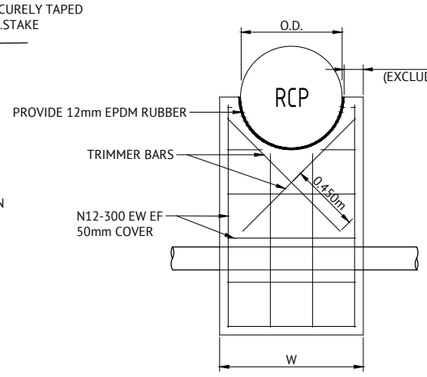
EXTENDED PROPERTY CONNECTIONS ACROSS ROAD - TYPE D (AR)

NTS

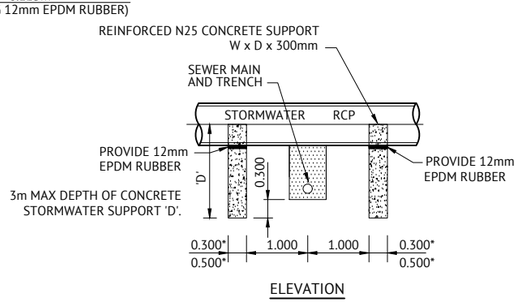


EXTENDED PROPERTY CONNECTION UNDER RETAINING WALL - TYPE D (E)

NTS



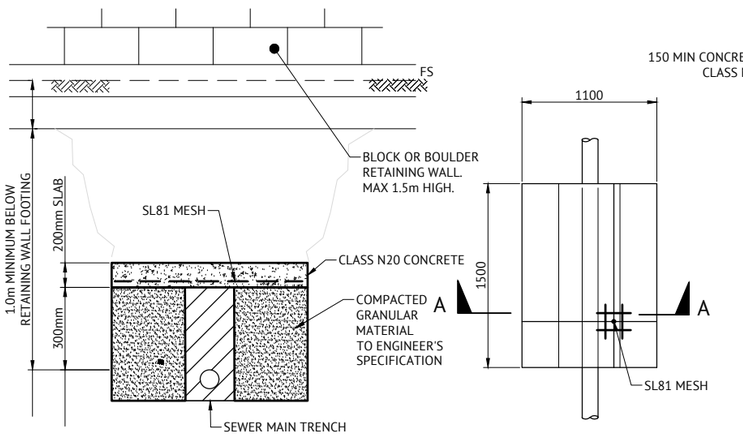
SECTION



ELEVATION

CONCRETE STORMWATER SUPPORT TYPICAL DETAIL

SCALE 1:20



SECTION A-A PLAN

SERVICE LINE CROSSING BOULDER OR BLOCK RETAINING WALL BRIDGING SLAB DETAIL

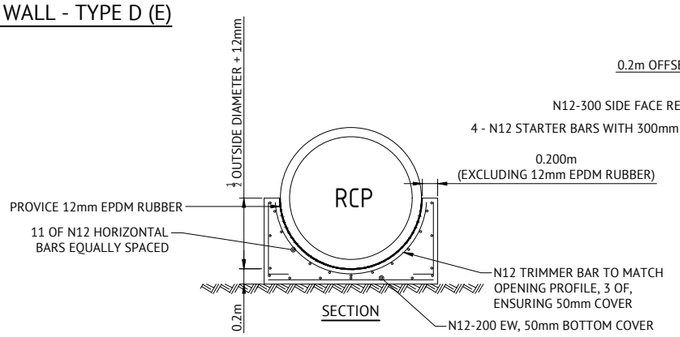
NTS

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 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.



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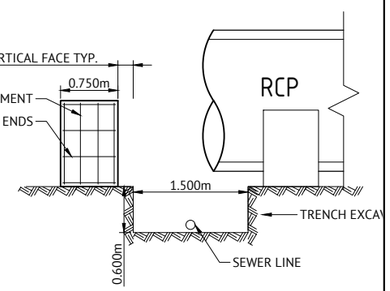

ELEVATION

CONCRETE STORMWATER SUPPORT IN ROCK SUBGRADE DETAIL

SCALE 1:40

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
15/11/19	B	ADDED DETAIL	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

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DESIGNED	M. MAJZNER
CHECKED	J. STONE
PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	JOSHUA STONE 15/11/19 RPEQ 15187
SCALE	AS SHOWN
ORIGINAL SHEET SIZE A1	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	SEWERAGE RETICULATION NOTES AND DETAILS

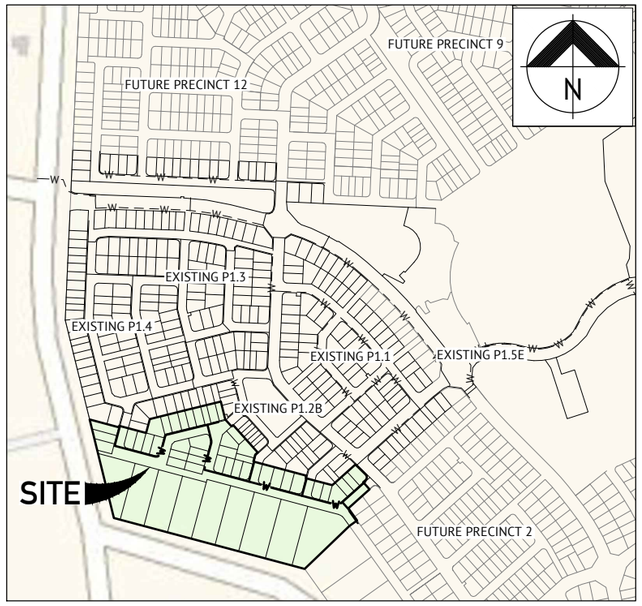
JOB CODE	
MIR001-05	
SHEET NUMBER	REV
C505	B

EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

TEVIOT ROAD, GREENBANK

FOR MIRVAC

WATER RETICULATION



LOCALITY PLAN

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
C603	WATER RETICULATION DETAILS

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. 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.
9. 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.
10. CONSTRUCT THRUST BLOCKS ON ALL BENDS, TEES, TAPERS AND DEAD ENDS IN ACCORDANCE WITH SEQ-WAT-1205-1, AND SEQ-WAT-1206-1.
11. CONSTRUCT TRENCHES IN ACCORDANCE WITH SEQ-WAT-1200-2, PIPE EMBEDMENT TO SEQ-WAT-1201-1 (TYPE C SUPPORT) AND ROAD CROSSINGS TO SEQ-WAT-1204-1 AND LCC STANDARDS.
12. INSTALL SCOURS IN ACCORDANCE WITH SEQ-WAT-1307-3.
13. INSTALL DETECTABLE MARKER TAPE ON ALL WATER MAINS AND PROPERTY SERVICES.
14. INSTALL HYDRANTS IN ACCORDANCE WITH SEQ-WAT-1302-1, SEQ-WAT-1303-1
15. INSTALL PAVEMENT MARKERS IN ACCORDANCE WITH SEQ-WAT-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

Premise

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
16/09/19	A	ORIGINAL ISSUE	MM	

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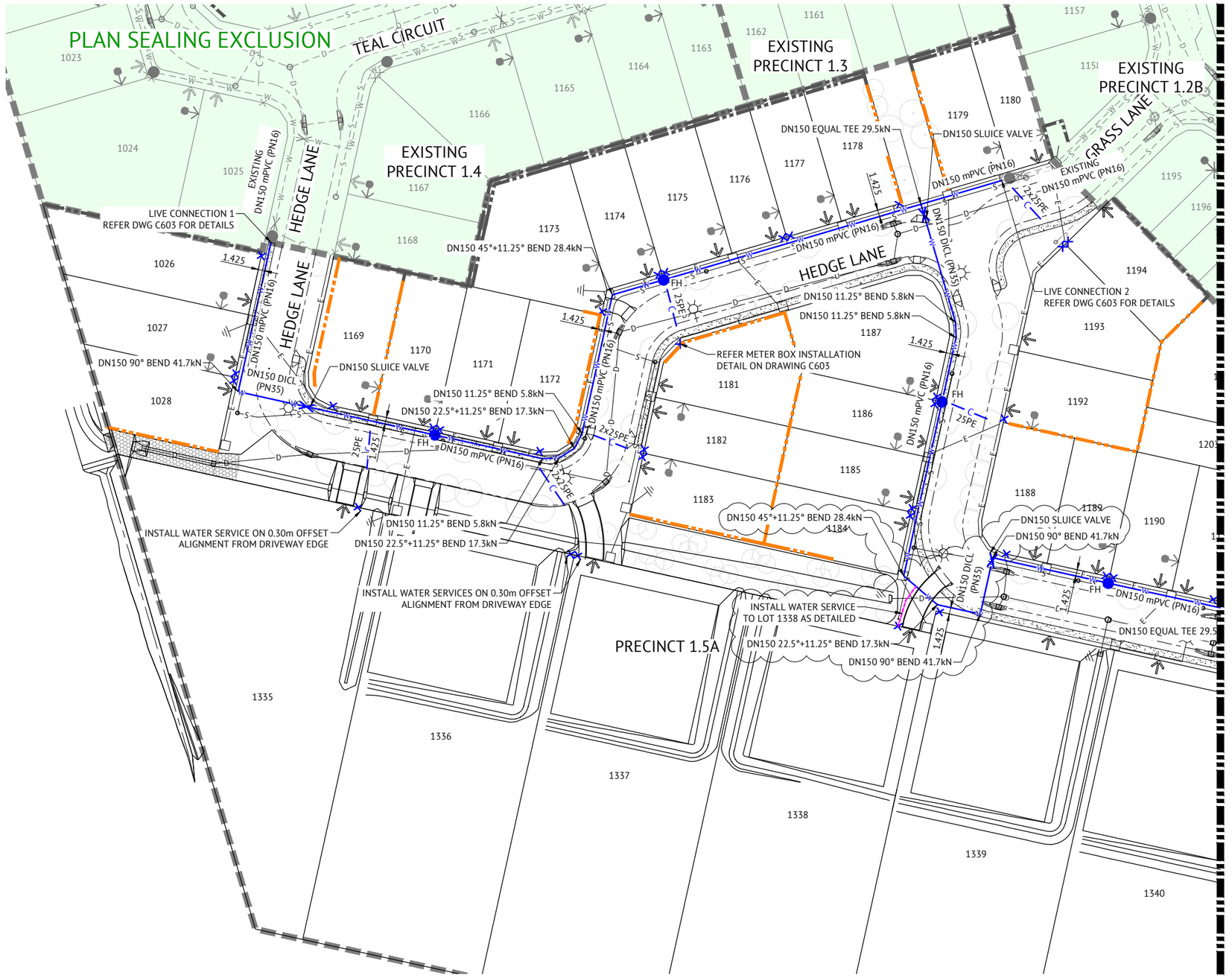
DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER 16/09/19
JOSHUA STONE RPEQ 15187

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE WATER RETICULATION LOCALITY PLAN & NOTES

JOB CODE MIR001-05
SHEET NUMBER C600
REV A



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
- D — STORMWATER
- S — GRAVITY SEWER
- RM — SEWER RISING MAIN
- E — ELECTRICITY
- FUTURE DRIVEWAY LOCATION
- ZERO LOT LINE
- STAGE BOUNDARY

LEGEND - EXISTING

W	WATER	D	STORMWATER
W	SLUICE VALVE	S	GRAVITY SEWER
FH W	FIRE HYDRANT	TS	SEWER TRUNK MAIN
W	TEST POINT	RM	SEWER RISING MAIN
W	SCOUR BRANCH	E	ELECTRICAL
W	DEAD END	T	TELSTRA
	WATER METER	G	GAS

INDEMNITY - EXISTING SERVICES

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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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
22/11/19	C	AMENDED ALIGNMENT, ADDED PROPOSED TREE LOCATIONS	MM	JS
15/11/19	B	ADDED ELECTRICAL LINEWORK, TEVIOT ROAD SWALE AND INTERFACE LOTS, SWALES AND NOTES	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

REVISIONS

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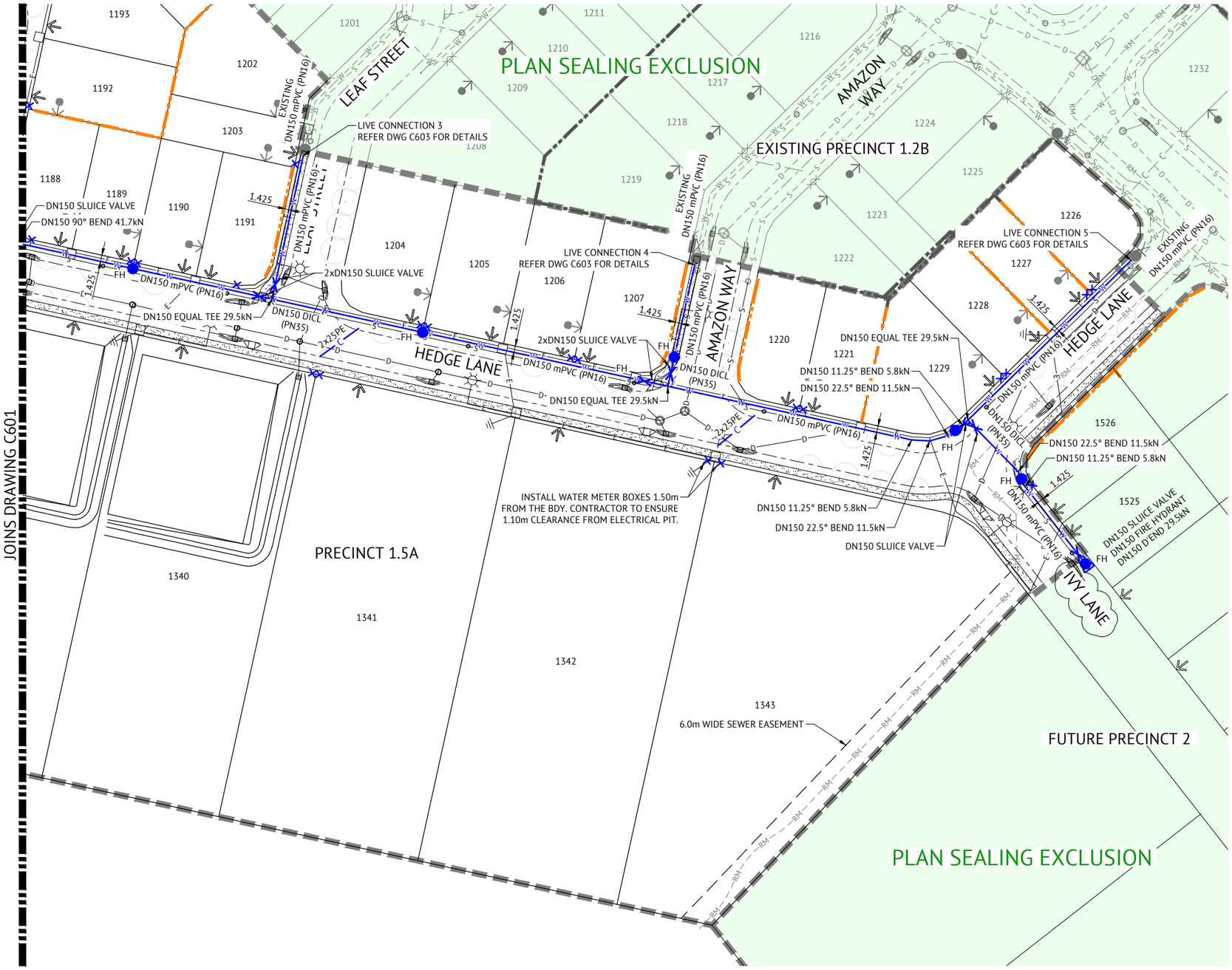
DESIGNED: M. MAIZNER
CHECKED: J. STONE
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: JOSHUA STONE 22/11/19 RPEQ 15187

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: WATER RETICULATION LAYOUT PLAN SHEET 1 OF 2

JOB CODE: MIR001-05
SHEET NUMBER: C601
REV: C



LEGEND - PROPOSED

- POTABLE WATER MAIN
- DN25 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

INDEMNITY - EXISTING SERVICES

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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.

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	C	AMENDED ROAD NAME	MM	PB
15/11/19	B	ADDED ELEC LINEWORK, TEVIOT RD SWALE, INTERFACE LOTS AND SWALES, VALVES AND WATER METER NOTE	MM	JS
16/09/19	A	ORIGINAL ISSUE	MM	

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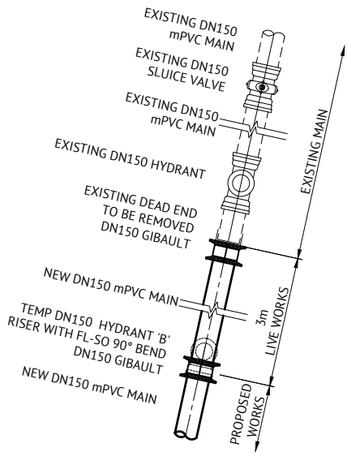
DESIGNED: M. MAJZNER
CHECKED: P. BRADY
PROJECT COORDINATOR: C. THORP
PROJECT CERTIFIER: PAT BRADY — 23/06/20 — RPEQ 7112

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

CLIENT: MIRVAC
PROJECT: EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION: TEVIOT ROAD, GREENBANK
SHEET TITLE: WATER RETICULATION LAYOUT PLAN SHEET 2 OF 2

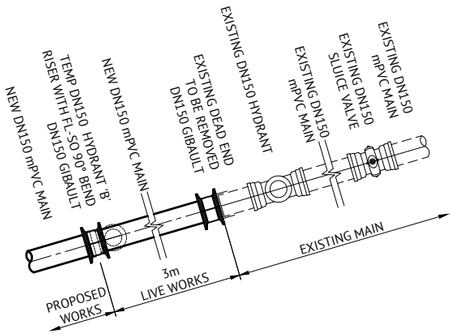
JOB CODE: MIR001-05
SHEET NUMBER: C602
REV: C



CONNECTION 1

LIVE CONNECTION DETAIL

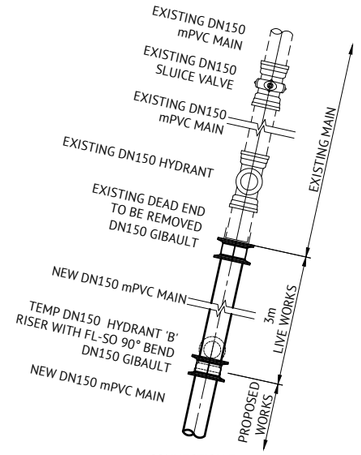
SCALE 1:25



CONNECTION 2

LIVE CONNECTION DETAIL

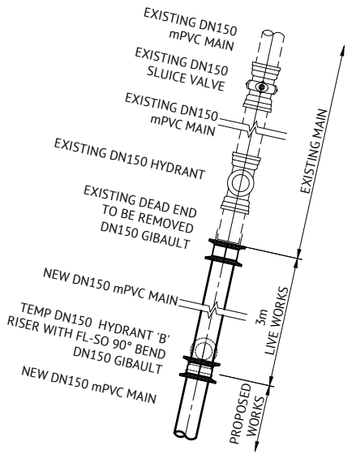
SCALE 1:25



CONNECTION 3

LIVE CONNECTION DETAIL

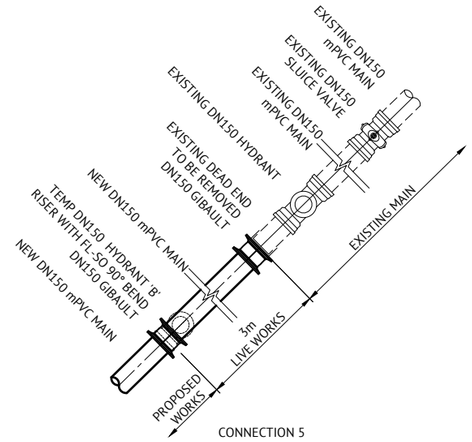
SCALE 1:25



CONNECTION 4

LIVE CONNECTION DETAIL

SCALE 1:25



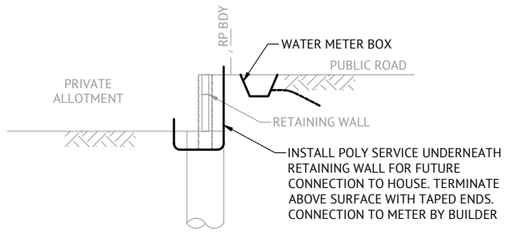
CONNECTION 5

LIVE CONNECTION DETAIL

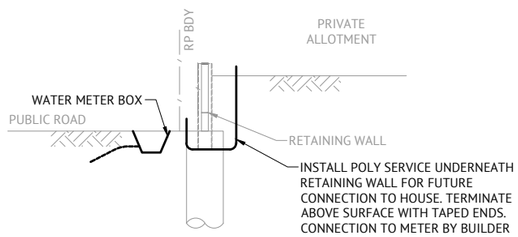
SCALE 1:25

LIVE CONNECTION NOTES:

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



ALLOTMENT BELOW ROAD



ALLOTMENT ABOVE ROAD

WATER SERVICE PROVISION UNDER RETAINING WALLS

N.T.S.

0 0.5 1.0 1.5m

SCALE 1:25 (A1)

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
16/09/19	A	ORIGINAL ISSUE	MM	

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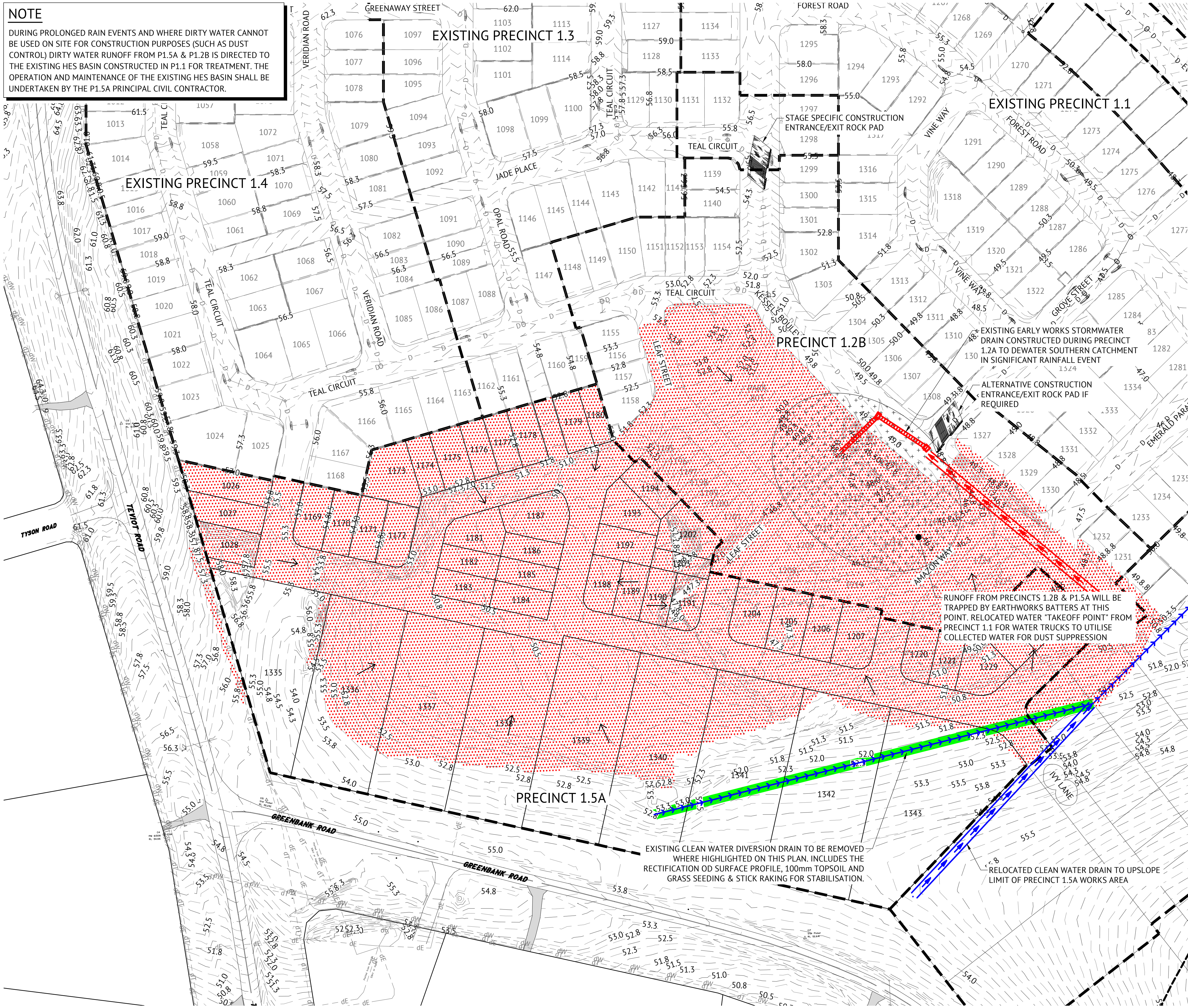
CHECKED	J. STONE
PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	16/09/19
	JOSHUA STONE RPEQ 15187
SCALE	NTS
ORIGINAL SHEET SIZE A1	

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	WATER RETICULATION DETAILS
JOB CODE	MIR001-05
SHEET NUMBER	C603
REV	A

NOTE

DURING PROLONGED RAIN EVENTS AND WHERE DIRTY WATER CANNOT BE USED ON SITE FOR CONSTRUCTION PURPOSES (SUCH AS DUST CONTROL) DIRTY WATER RUNOFF FROM P1.5A & P1.2B IS DIRECTED TO THE EXISTING HES BASIN CONSTRUCTED IN P1.1 FOR TREATMENT. THE OPERATION AND MAINTENANCE OF THE EXISTING HES BASIN SHALL BE UNDERTAKEN BY THE P1.5A PRINCIPAL CIVIL CONTRACTOR.



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

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

[illegible]

CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

REVISIONS

Premise

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

DESIGNED M. MAJZNER
CHECKED P. BRADY
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER [illegible] 23/06/20
PAT BRADY RPEQ 7112

SCALE 0 15 30 45m
SCALE 1:750(A1)
ORIGINAL SHEET SIZE A1

CLIENT **MIRVAC**
PROJECT **EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT**
LOCATION **TEVIOT ROAD, GREENBANK**
SHEET TITLE **EROSION AND SEDIMENT CONTROL LAYOUT - CLEAR AND GRUB PHASE**

JOB CODE MIR001-05
SHEET NUMBER C700
REV B

NOTE

DURING PROLONGED RAIN EVENTS AND WHERE DIRTY WATER CANNOT BE USED ON SITE FOR CONSTRUCTION PURPOSES (SUCH AS DUST CONTROL) DIRTY WATER RUNOFF FROM P1.5A & P1.2B IS DIRECTED TO THE EXISTING HES BASIN CONSTRUCTED IN P1.1 FOR TREATMENT. THE OPERATION AND MAINTENANCE OF THE EXISTING HES BASIN SHALL BE UNDERTAKEN BY THE P1.5A PRINCIPAL CIVIL CONTRACTOR.

EXISTING PRECINCT 1.3

EXISTING PRECINCT 1.4

EXISTING PRECINCT 1.1

PRECINCT 1.2B

PRECINCT 1.5A

FUTURE PRECINCT 2

EARTHWORKS FOR LOTS 1169-1180 HAVE BEEN COMPLETED WITH THE PREVIOUS CONTRACT

CONSTRUCT GULLY PIT IMMEDIATELY TO PROVIDED DIRTY WATER ENTRY LOCATION. DIRECT DIRTY WATER FLOWS TO THIS LOCATION.

CONSTRUCT GULLY PITS IMMEDIATELY TO PROVIDED DIRTY WATER ENTRY LOCATION. DIRECT DIRTY WATER FLOWS TO THIS LOCATION.

EXISTING GULLY PITS TO PROVIDE DIRTY WATER ENTRY POINT. DIRECT DIRTY WATER FLOWS TO THIS LOCATION.

EXISTING CLEAN WATER DIVERSION DRAIN TO REMAIN

TEAL CIRCUIT · OPAL ROAD · VERIDIAN ROAD · LEAF STREET · GRASS LANE · HEDGE LANE · KESSELS BOULEVARD · AMAZON WAY · IVY LANE

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

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

CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION

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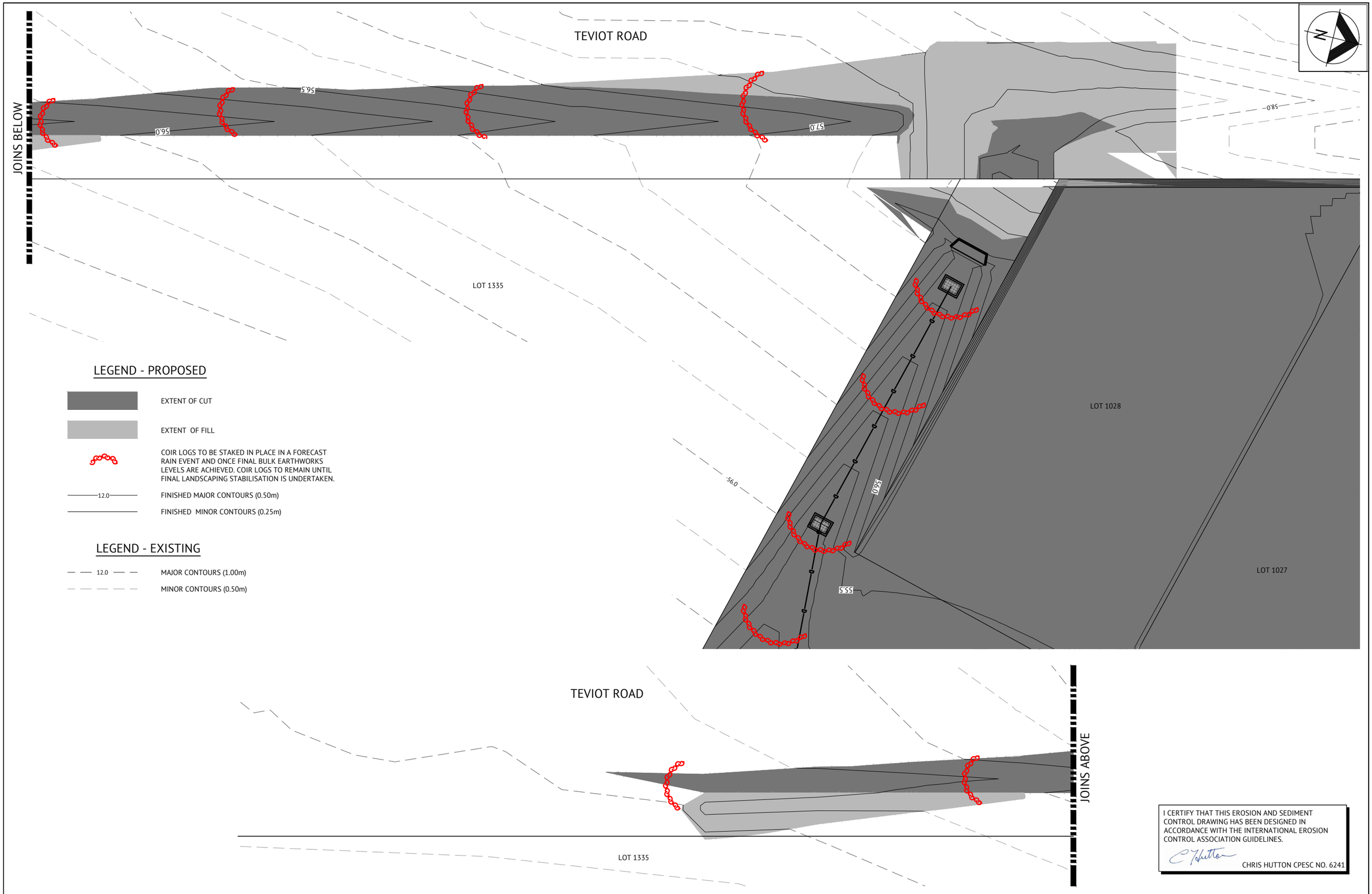
CHECKED	P. BRADY
PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	PAT BRADY 23/06/20 RPEQ 7112

SCALE: 0 15 30 45m — SCALE 1:750(A1)

ORIGINAL SHEET SIZE A1

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS - SHEET 1

JOB CODE	
MIR001-05	
SHEET NUMBER	REV
C701	B



LEGEND - PROPOSED

- EXTENT OF CUT
- EXTENT OF FILL
- COIR LOGS TO BE STAKED IN PLACE IN A FORECAST RAIN EVENT AND ONCE FINAL BULK EARTHWORKS LEVELS ARE ACHIEVED. COIR LOGS TO REMAIN UNTIL FINAL LANDSCAPING STABILISATION IS UNDERTAKEN.
- 12.0 — FINISHED MAJOR CONTOURS (0.50m)
- FINISHED MINOR CONTOURS (0.25m)

LEGEND - EXISTING

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

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DESIGNED M. MAJZNER
CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE RPEQ 15187 15/11/19

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

CLIENT MIRVAC
PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL LAYOUT - BULK EARTHWORKS - SHEET 2

JOB CODE MIR001-05
SHEET NUMBER C702
REV A

TOPSOIL AMELIORATION:

TOPSOIL RESPREAD TO ALL PUBLIC AREAS (ROAD VERGES AND PEDESTRIAN LINKS)

NOTES:

1. THE CONSTRUCTION SITE ENTRANCE ROCK SHAKER PAD LOCATION TO BE DETERMINED BY THE SITE FOREMAN AND MARKED UP ON THE ESC PLANS ONCE THE LOCATION IS DETERMINED.
2. CONTRACTOR TO ENSURE THAT GRASS SEEDED AREAS SHOWN ON THIS PLAN ACHIEVE SUFFICIENT STRIKE AND COVERAGE IN ACCORDANCE WITH LOGAN CITY COUNCIL STANDARDS.

EXISTING PRECINCT 1.3

EXISTING PRECINCT 1.4

EXISTING PRECINCT 1.1

PRECINCT 1.2B

PRECINCT 1.5A

FUTURE PRECINCT 2

FINAL STABILISATION OF PRECINCT 1.2 PARK AND ASSOCIATED VERGES TO BE UNDERTAKEN BY THE LANDSCAPE CONTRACTOR.

INSTALL 100mm TOPSOIL AND TURF TO INTERFACE LOT DRAWING SWALES. REFER TO DRAWING C203 FOR FURTHER DETAILS.

TEAL CIRCUIT · OPAL ROAD · VERIDIAN ROAD · LEAF STREET · GRASS LANE · HEDGE LANE · KISSELS BOULEVARD · VINE WAY · GROVE · AMAZON WAY

N

STABILISATION LEGEND

- 100mm THICK TOPSOIL RESPREAD AND DRILL SEEDING
- 100mm THICK TOPSOIL AND TURF
- CLEARING AREA STABILISATION. CONTRACTOR TO ENSURE AREA IS ADEQUATELY STABILISED FOLLOWING DISTURBANCE INCLUDING FILLING OF ROOT BALL DEPRESSIONS TO ELIMINATE WATER PONDING.
- GULLY INLET PROTECTION. REFER DETAIL IECA DRAWING ESC-03 FOR DETAILS.
- D — PROPOSED STORMWATER
- 12.0 — FINISHED CONTOURS (0.50m)

LEGEND - EXISTING

- 12.0 — MAJOR CONTOURS (1.00m)

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CHRIS HUTTON CPESC NO. 6241

FOR CONSTRUCTION

DATE	REV	DESCRIPTION	REC	APP
23/06/20	B	AMENDED ROAD NAME AND TOPSOIL REPREAD AREA	MM	PB
15/11/19	A	ORIGINAL ISSUE	MM	JS

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PROJECT COORDINATOR	C. THORP
PROJECT CERTIFIER	PAT BRADY, 23/06/20, RPEQ 7112
SCALE	0 15 30 45m — SCALE 1:750(A1)
ORIGINAL SHEET SIZE	A1

CLIENT	MIRVAC
PROJECT	EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT
LOCATION	TEVIOT ROAD, GREENBANK
SHEET TITLE	EROSION AND SEDIMENT CONTROL LAYOUT - STABILISATION PHASE
JOB CODE	MIR001-05
SHEET NUMBER	C703
REV	B

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.

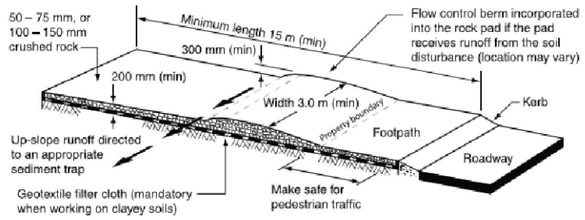
4. THE CONTRACTOR SHALL APPOINT AN APPROPRIATELY EXPERIENCED PERSON TO BE MADE RESPONSIBLE FOR IMPLEMENTATION OF THE ESC.
5. ALL ESC MEASURES SHALL BE INSPECTED:

- 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.

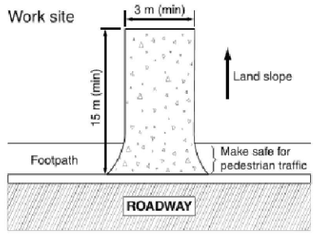
6. MAINTENANCE OF ESC MEASURES SHALL OCCUR TO ENSURE THEY ARE OPERATING EFFICIENTLY AND IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

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

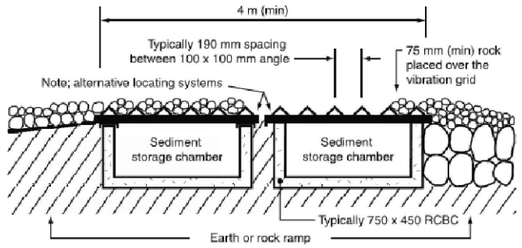
7. INSTALL DIVERSION CATCH DRAINS UPSTREAM OF, AND SILT FENCE DOWNSTREAM OF, STOCKPILES.
8. STOCKPILES ARE TO BE LOCATED AWAY FROM EROSION HAZARD AREAS SUCH AS DRAINAGE LINES AND STEEP SLOPES.
9. STOCKPILES ARE TO BE PROTECTED FROM EROSION BY THE WIND.
10. ADEQUATE SUPPLIES OF EMERGENCY MAINTENANCE MATERIALS, 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.



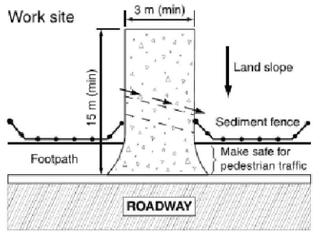
(a) Rock entry/exit pad for construction sites (refer to Standard Drawing Exit-03 for building sites)



(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

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.

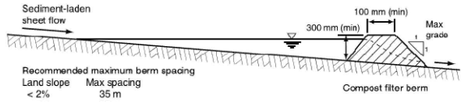
5. DISPOSE OF SEDIMENT IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.

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

MULCH BUND DETAIL

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CHECKED J. STONE
PROJECT COORDINATOR C. THORP
PROJECT CERTIFIER JOSHUA STONE 15/11/19 RPEQ 15187

SCALE

ORIGINAL SHEET SIZE A1

CLIENT MIRVAC

PROJECT EVERLEIGH PRECINCT 1.5A SUBDIVISION DEVELOPMENT

LOCATION TEVIOT ROAD, GREENBANK

SHEET TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 1

JOB CODE MIR001-05

SHEET NUMBER C704

REV A

ROLES 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 AN 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

CORRECTIVE AND PREVENTATIVE ACTION

AN ENVIRONMENTAL INCIDENT WITH RESPECT TO THE ESCP IS DEFINED AS ANY OCCURRENCE WHERE SEDIMENT IS RELEASED FROM THE SITE, WHETHER CONTROLLED OR UNCONTROLLED, OR WHERE STORM WATER IS RELEASED (CONTROLLED) FROM SITE WHICH DOES NOT MEET THE WATER QUALITY REQUIREMENTS.

ALL INCIDENTS AND NON-CONFORMANCES ARE TO BE REPORTED, INVESTIGATED AND CORRECTED IN ACCORDANCE WITH THE ESCP TO ENSURE EFFECTIVE SOIL AND WATER QUALITY MANAGEMENT PRACTICES AT ALL TIMES.

BEST PRACTICE SITE MANAGEMENT REQUIRES ALL ESC MEASURES TO BE INSPECTED BY THE CONTRACTORS NOMINATED REPRESENTATIVE AT LEAST DAILY WHEN RAIN IS OCCURRING, WITHIN 24 HOURS PRIOR TO EXPECTED RAINFALL, AND WITHIN 18 HOURS OF A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE ONSITE RUNOFF (IECA, 2008). SUCH INSPECTIONS MUST CHECK:

- DAILY SITE INSPECTIONS (DURING PERIODS OF RUNOFF PRODUCING RAINFALL)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - ALL SITE DISCHARGE POINTS (INCLUDING DEWATERING ACTIVITIES AS APPROPRIATE)
- WEEKLY SITE INSPECTIONS (EVEN IF WORK IS NOT OCCURRING ON-SITE)
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FROM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.
  - LITTER AND WASTE RECEPTORS
  - OIL, FUEL AND CHEMICALS STORAGE FACILITIES
- PRIOR TO ANTICIPATED RUNOFF PRODUCING RAINFALL
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - ALL TEMPORARY FLOW DIVERSION AND DRAINAGE WORKS
- FOLLOWING RUNOFF PRODUCING RAINFALL
  - ALL DRAINAGE, EROSION AND SEDIMENT CONTROL MEASURES
  - OCCURRENCES OF EXCESSIVE SEDIMENT DEPOSITION (WHETHER ON-SITE OR OFF-SITE)
  - OCCURRENCES OF CONSTRUCTION MATERIALS, LITTER OR SEDIMENT PLACED, DEPOSITED, WASHED OR BLOWN FORM THE SITE, INCLUDING DEPOSITION BY VEHICULAR MOVEMENTS.

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SCALE

ORIGINAL SHEET SIZE A1

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LOCATION TEVIOT ROAD, GREENBANK
SHEET TITLE EROSION AND SEDIMENT CONTROL NOTES AND DETAILS - SHEET 2

JOB CODE MIR001-05
SHEET NUMBER C705
REV A